Calibration Laboratory of

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





S Schweizerischer Kalibrierdienst
Service suisse d'étalonnage
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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Client

PC Test

Certificate No: ES3-3347_Mar18

CALIBRATION CERTIFICATE

Object

ES3DV3 - SN:3347

Calibration procedure(s)

QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes 204-05 2018

Calibration date:

March 27, 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-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
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 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 Function Signature

Calibrated by: Michael Weber Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: March 27, 2018

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

Certificate No: ES3-3347_Mar18

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Glossary:

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

ConvF

sensitivity in TSL / NORMx,y,z

DCP

diode compression point

CF A, B, C, D 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 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 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
 NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is
 implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included
 in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Probe ES3DV3

SN:3347

Manufactured:

March 15, 2012

Repaired:

March 15, 2018

Calibrated:

March 27, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3347

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	1.15	1.18	1.21	± 10.1 %
DCP (mV) ^B	101.9	105.1	102.9	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^t (k=2)
0	CW	X	0.0	0.0	1.0	0.00	201.8	±3.3 %
		Υ	0,0	0.0	1.0		203.9	
		Z	0.0	0.0	1.0		204.8	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

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	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	52.41	376.6	35.43	28.01	1.852	5.10	0.578	0.488	1.008
Y	42.65	300.9	34.31	25.12	1.310	5.10	1.279	0.204	1.011
Z	48.12	344.8	35.26	27.10	1.587	5.10	0.868	0.385	1.009

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

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

B Numerical linearization parameter: uncertainty not required.

C 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: ES3DV3 - SN:3347

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	6.77	6.77	6.77	0.65	1.32	± 12.0 %
835	41.5	0.90	6.41	6.41	6.41	0.40	1.64	± 12.0 %
1750	40.1	1.37	5.58	5.58	5.58	0.54	1.42	± 12.0 %
1900	40.0	1.40	5.36	5.36	5.36	0.80	1.16	± 12.0 %
2300	39.5	1.67	5.11	5.11	5.11	0.74	1.29	± 12.0 %
2450	39.2	1.80	4.81	4.81	4.81	0.80	1.24	± 12.0 %
2600	39.0	1.96	4.66	4.66	4.66	0.75	1.25	± 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. Above 5 GHz frequency validity can be extended to ± 110 MHz.

At frequencies below 3 CHz the weight of the convergence of a convergence of the co

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 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.

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DASY/EASY - Parameters of Probe: ES3DV3 - SN:3347

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	6.59	6.59	6.59	0.77	1.22	± 12.0 %
835	55.2	0.97	6.37	6.37	6.37	0.80	1.17	± 12.0 %
1750	53.4	1.49	5.17	5.17	5.17	0.49	1.59	± 12.0 %
1900	53.3	1.52	4.94	4.94	4.94	0.52	1.49	± 12.0 %
2300	52.9	1.81	4.74	4.74	4.74	0.80	1.25	± 12.0 %
2450	52.7	1.95	4.64	4.64	4.64	0.75	1.20	± 12.0 %
2600	52.5	2.16	4.49	4.49	4.49	0.80	1.20	± 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. Above 5 GHz frequency validity can be extended to ± 110 MHz.

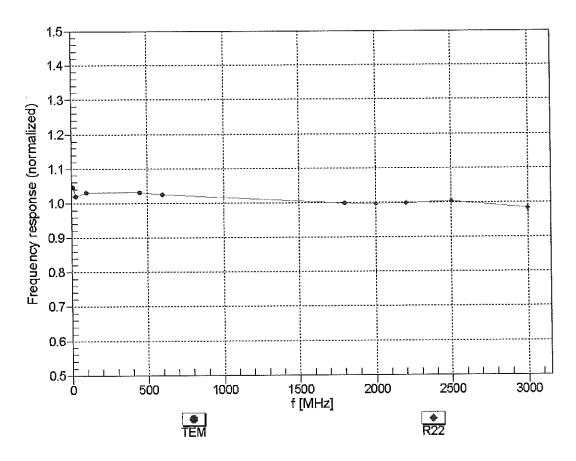
validity can be extended to ± 110 MHz.

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 Coast function of the coast formula is applied to parameters.

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)

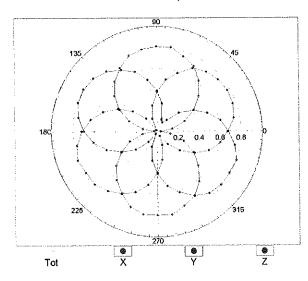


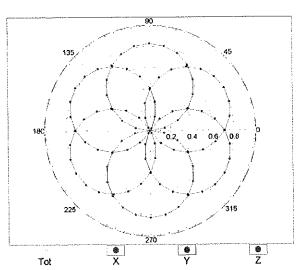
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

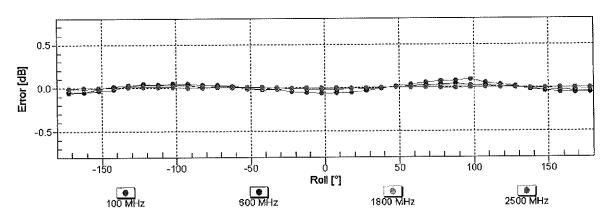
Receiving Pattern (ϕ), $9 = 0^{\circ}$

f=600 MHz,TEM

f=1800 MHz,R22

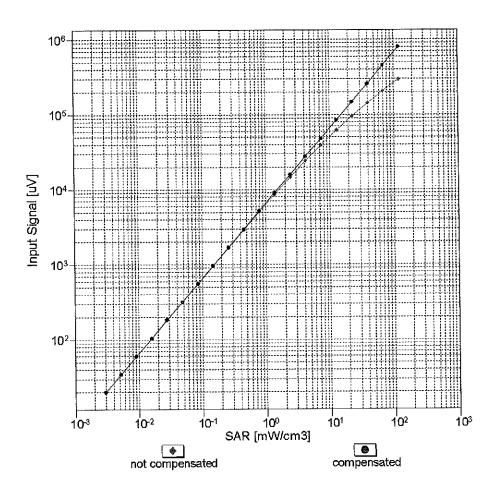


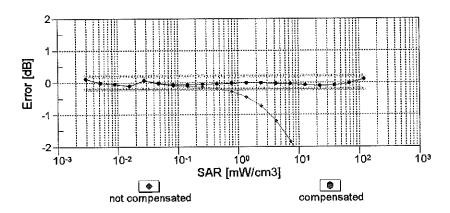




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

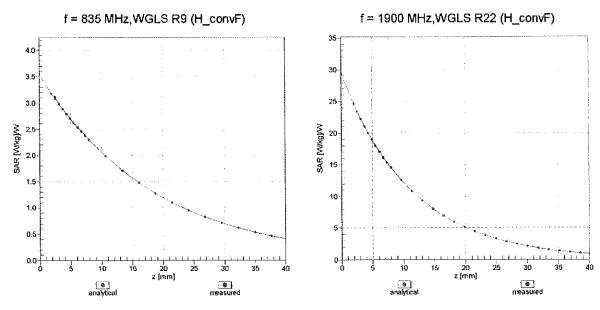
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



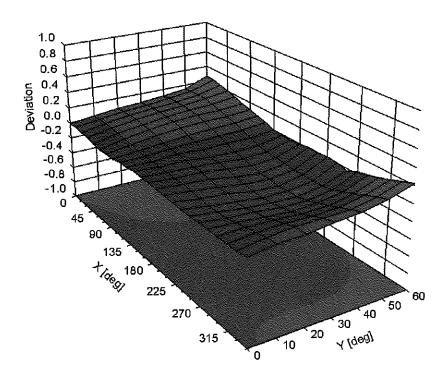


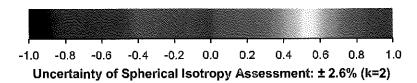
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (0, 9), f = 900 MHz





DASY/EASY - Parameters of Probe: ES3DV3 - SN:3347

Other Probe Parameters

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Sensor Arrangement	Triangular
Connector Angle (°)	-16.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Appendix: Modulation Calibration Parameters

מוט	lix: Modulation Calibration Paral Communication System Name		A dB	B dBõV	С	dB D	VR mV	Max Unc ^E (k≂2)
0	CW	X	0.00	0.00	1.00	0.00	201.8	± 3.3 %
		Υ	0.00	0.00	1.00		203.9	
10010		Z	0.00	0.00	1.00		204.8	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	7.57	78.06	17.49	10.00	25.0	± 9.6 %
		Υ	9.85	82.39	18.69		25.0	
15511		Z	7.35	77.81	17.08		25.0	
10011- CAB	UMTS-FDD (WCDMA)	X	0.93	66,02	14.08	0.00	150.0	±9.6%
		Y	0.97	66.67	14.52		150.0	
10012-	IEEE 000 441 MEEL 0 4 OUL (DOOR 4	Z	0.93	66.21	14.17		150.0	
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.22	64.40	15.16	0.41	150.0	± 9.6 %
		Y	1.24	64.68	15.35		150.0	
10013-	IEEE 802 44a WiEi 2 4 OUE (DOOG	Z	1.21	64.49	15.23		150.0	
CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.02	67.09	17.26	1.46	150.0	± 9.6 %
		Y	4.93	67.32	17.31		150.0	
10021-	GSM-FDD (TDMA, GMSK)	Z	4.97	67.16	17.27	0.00	150.0	
DAC	GOW-FUD (TOWA, GWSK)	X	91.36	118.07	31.34	9.39	50.0	± 9.6 %
w***		Y	100.00	119.30	31.14		50.0	
10023-	GPRS-FDD (TDMA, GMSK, TN 0)	Z	100.00	118.75	31.10	C ==	50.0	1000
DAC	GFRS-FDD (TDIVIA, GIVISIA, TN U)		58.54	111.16	29.65	9.57	50.0	± 9.6 %
		Y	100.00	119.20	31.14		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00 100.00	118.71 115.85	31.13 28.82	6.56	50.0 60.0	± 9.6 %
<i>D1</i> (0		Υ	100.00	116.32	28.70		60.0	
		Ż	100.00	115.26	28.36		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	19.84	109.66	41.73	12.57	50.0	± 9.6 %
		Υ	49.03	143.08	53.86		50.0	
		Z	21.37	113.26	43.24		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	21.22	106.46	36,65	9.56	60.0	±9.6%
		Υ	31.58	119.85	41.69		60.0	
		Z	22.56	108.96	37.62		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	114.36	27.28	4.80	80.0	±9.6 %
		Υ	100.00	115.58	27.56		80.0	
40000	OPPO FOR /Talla Cité de la cité d	Z	100.00	113.91	26.92		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Х	100.00	113.86	26.30	3.55	100.0	± 9.6 %
		Y	100.00	115.98	27.02		100.0	
10000	EDGE EDD /TDMA ADOM THE A CO	Z	100.00	113.53	26.01		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	12.94	95.02	31.64	7.80	80.0	± 9.6 %
		Y	14.07	99.40	33.81		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	12.89 100.00	95.72 113.99	32.02 27.43	5.30	80.0 70.0	± 9.6 %
577		Y	100.00	114.60	27.41		70.0	
		Z	100.00	113.38	26.98		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	111.77	23.93	1.88	100.0	± 9.6 %
		Y	100.00	115.39	25.33		100.0	
*		† <u>;</u>	100.00	111.26	23.59	!	100.0	l · · · · · · · · · · · · · · · · · · ·

10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	111.85	22,94	1.17	100.0	± 9.6 %
CAA		Υ	400.00	118.40	25.59		100.0	
		Z	100.00 100.00	111.34	22.62		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	23.91	101.19	27.41	5.30	70.0	± 9.6 %
		Υ	36.18	107.81	28.88		70.0	
		Z	30.63	104.89	28.18		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	6.24	84.08	20.44	1.88	100.0	± 9.6 %
		Υ	7.24	85.92	20.55		100.0	
		Z	6.85	85.19	20.50		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	3.29	76.95	17.63	1.17	100.0	± 9.6 %
		7	3.58	78.09	17.57		100.0	
10000	LEEE COOKE A DI VIVI (O DDOK DIVI)	Z	3,42	77.43	17.51	5.00	100.0	. 0 0 0/
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	32.79	106.39	28.91	5.30	70.0	±9.6 %
······································		Υ	55.24	114.58	30.68		70.0	
10007	IEEE 000 45 4 Divistants (0 DDOM DUO)	Z	45.73	111.34	29.95	4 00	70.0	T U C U/
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	5.86	83.28	20.13	1.88	100.0	± 9.6 %
·····		Y	6.54	84.66	20.12		100.0	
10038-	IEEE DOO 45 4 Division to 70 DDOW DUS	Z X	6.31	84.13 77.59	20.12	1.17	100.0 100.0	± 9.6 %
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)		3.39		17.96	1.17		± 9.0 %
		Y Z	3.66	78.64	17.87		100.0 100.0	
10020	CDMA2000 (4vBTT_BC4)	X	3.53	78.11	17.85	0.00	150.0	± 9.6 %
10039- CAB	CDMA2000 (1xRTT, RC1)		1.52	69.16	14.18	0.00		19.0 %
		Y Z	1.40 1.46	68.90	13.55		150.0 150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	69.03 114.62	13.83 28.47	7.78	50.0	± 9.6 %
CAB	DQF3K, Halliate)	Y	100.00	114.70	28.14		50.0	
		Z	100.00	113.88	27.92		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.01	121.88	0.68	0.00	150.0	± 9.6 %
		Y	0.00	97.83	1.91		150.0	
		Z	0.01	122.55	0.35		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	17.94	92.17	26.06	13.80	25.0	± 9.6 %
		Υ	42.19	107.21	29.95		25.0	
		Z	24.74	97.63	27.36		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	Х	22.69	96.29	25.94	10.79	40.0	±9.6 %
		Y	68.20	113.74	30.23		40.0	
		Z	32.65	101.85	27.19		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	×	16.99	92.79	25.84	9.03	50.0	± 9.6 %
		Υ	27.63	101.84	28.34		50.0	
		Z	20.13	95.81	26.57		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	9.12	87.95	28.36	6.55	100.0	± 9.6 %
		Y	8.98	89.45	29.43		100.0	
10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	Z X	8.90 1.37	88.06 66.39	28.51 16.16	0.61	100.0 110.0	± 9.6 %
CAB	Mbps)	 	4 20	GC EO	16.00		4400	
		Y	1.38	66.59	16.33		110.0	
10060-	IFFE 802 11h WiFi 2.4 GHz (Deec F.F.	Z X	1.36	66.49	16.23	1 20	110.0	+060/
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)		100.00	128.08	31.98	1.30	110.0	± 9.6 %
		Y	100.00	131.22	33.31		110.0	
		Z	100.00	128.65	32.15		110.0	<u> </u>

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	9.25	94.71	26.12	2.04	110.0	± 9.6 %
		Υ	9.59	96.73	27.06		110.0	
		Z	10.28	96.95	26.85		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	Х	4.74	66.85	16.53	0.49	100.0	± 9.6 %
		Y	4.66	67.04	16.57		100.0	·
		Z	4.70	66.90	16.54		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	Х	4.78	67.00	16.67	0.72	100.0	± 9.6 %
		Υ	4.69	67.19	16.70		100.0	
1000		Z	4.73	67.05	16.68		100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	Х	5.09	67.32	16.93	0.86	100.0	± 9.6 %
		Y	4.97	67.46	16.94		100.0	
40005	TEEE COO LA TOUR DE LA	Z	5.03	67.35	16.93		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	Х	4.99	67.34	17.10	1.21	100.0	±9.6%
		Υ	4.88	67.46	17.11		100.0	
40000	JEEF 000 44 / WIELE 011	Z	4.93	67.36	17.10		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.05	67.46	17.33	1.46	100.0	± 9.6 %
***************************************		Y	4.92	67.57	17.33		100.0	
40067	1555	Z	4.98	67.48	17.32		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.36	67.67	17.81	2.04	100.0	± 9.6 %
		Y	5.25	67.92	17.88		100.0	
		Z	5.30	67.73	17.82		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.48	67.95	18.15	2.55	100.0	± 9.6 %
		Υ	5.33	68.04	18.16		100.0	
		Z	5.40	67.94	18.13		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	Х	5.56	67.94	18.35	2.67	100.0	± 9.6 %
		Υ	5.42	68.11	18.40		100.0	
		Z	5.49	67.96	18.34		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	Х	5.16	67.32	17.64	1.99	100.0	± 9.6 %
		Υ	5.07	67.53	17.70		100.0	
		Z	5.11	67.37	17.65		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	Х	5.20	67.83	17.95	2.30	100.0	± 9.6 %
		Υ	5.09	67.99	18.00		100.0	
		Z	5.14	67.86	17.96		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	Х	5.32	68.17	18.37	2.83	100.0	± 9.6 %
		Y	5.22	68.36	18.44		100.0	
100-		Z	5.26	68.20	18.38		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.35	68.22	18.60	3.30	100.0	± 9.6 %
		Y	5.26	68.43	18.68		100.0	
40075	1555 000 44 1455 0 4 0 1	Z	5,29	68.25	18.61		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	Х	5.48	68.62	19.07	3.82	90.0	± 9.6 %
···		Υ	5.35	68.73	19.11		90.0	
10076-	IEEE 802.11g WiFi 2.4 GHz	Z X	5.40 5.50	68.60 68.45	19.05 19.21	4.15	90.0 90.0	± 9.6 %
CAB	(DSSS/OFDM, 48 Mbps)	1		00.00	4000			
		Y	5.40	68.64	19.31		90.0	
10077	IEEE 000 44 - WEEE 0 4 OU	Z	5.44	68.46	19.21		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.54	68.54	19.31	4.30	90.0	± 9.6 %
		Υ	5,44	68.76	19.43		90.0	
		Z	5.48	68.56	19.32		90.0	

10082- CAB DQPSK, Fullrate) 10090- DAC GPRS-FDD (TDMA, GMSK, TN 0-DAC UMTS-FDD (HSDPA) 10098- CAB UMTS-FDD (HSUPA, Subtest 2) 10099- DAC EDGE-FDD (TDMA, 8PSK, TN 0-4DAC UMTS-FDD (SC-FDMA, 100% RB, 2MHz, QPSK) 10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2MHz, 16-QAM) 10102- CAD MHz, 64-QAM) 10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2MHz, QPSK) 10104- CAD MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2MHz, 16-QAM) 10108- CAD MHz, 64-QAM) 10108- CAE MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM) 10108- CAE MHz, GSC-FDMA, 100% RB, 2MHz, QPSK) 10109- CAE MHz, GSC-FDMA, 100% RB, 2MHz, QPSK) 10110- CAE MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM))	X	0.74	64.32	11.31	0.00	150.0	± 9.6 %
CAB DQPSK, Fullrate) 10090-DAC GPRS-FDD (TDMA, GMSK, TN 0-4DAC UMTS-FDD (HSDPA) 10098-CAB UMTS-FDD (HSUPA, Subtest 2) 10099-DAC EDGE-FDD (TDMA, 8PSK, TN 0-4DAC MHz, QPSK) 10100-LTE-FDD (SC-FDMA, 100% RB, 2MHz, 16-QAM) 10102-CAD MHz, 64-QAM) 10103-CAD MHz, 64-QAM) 10103-CAD MHz, GSC-FDMA, 100% RB, 2MHz, QPSK) 10104-CAD MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM) 10105-CAD MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM) 10108-CAD MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM) 10108-CAE MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM) 10110-CAE UTE-FDD (SC-FDMA, 100% RB, 2MHz, 16-QAM)		Y	0.70	64.20	10.81		150.0	
CAB DQPSK, Fullrate) 10090-DAC GPRS-FDD (TDMA, GMSK, TN 0-4DAC UMTS-FDD (HSDPA) 10098-CAB UMTS-FDD (HSUPA, Subtest 2) 10099-DAC EDGE-FDD (TDMA, 8PSK, TN 0-4DAC MHz, QPSK) 10100-LTE-FDD (SC-FDMA, 100% RB, 2MHz, 16-QAM) 10102-CAD MHz, 64-QAM) 10103-CAD MHz, 64-QAM) 10103-CAD MHz, GSC-FDMA, 100% RB, 2MHz, QPSK) 10104-CAD MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM) 10105-CAD MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM) 10108-CAD MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM) 10108-CAE MHz, GSC-FDMA, 100% RB, 2MHz, 16-QAM) 10110-CAE UTE-FDD (SC-FDMA, 100% RB, 2MHz, 16-QAM)		ż	0.70	64.15	10.92		150.0	
10090- DAC GPRS-FDD (TDMA, GMSK, TN 0-4) 10097- CAB UMTS-FDD (HSDPA) 10098- CAB LTE-FDD (SC-FDMA, 100% RB, 2) MHz, QPSK) LTE-FDD (SC-FDMA, 100% RB, 2) MHz, 64-QAM) LTE-FDD (SC-FDMA, 100% RB, 2) MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 2) MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 2) MHz, G4-QAM) LTE-TDD (SC-FDMA, 100% RB, 2) MHz, 16-QAM) LTE-FDD (SC-FDMA, 100% RB, 2) MHz, 16-QAM) LTE-FDD (SC-FDMA, 100% RB, 2) LTE-FDD (SC-FDMA, 100% RB, 3) LTE-FDD (SC-FDMA, 100% RB, 4) LTE-FDD (SC-FDMA, 100% RB, 4)		X	1.69	62.26	7.32	4.77	80.0	± 9.6 %
10097- CAB 10098- CAB 10099- DAC 10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10108- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10108- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10108- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10109- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)		Υ	1.49	62.02	6.99		80.0	
10097- CAB 10098- CAB 10098- CAB 10099- DAC 10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10102- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10108- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10108- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10108- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10109- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM) 10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, G4-QAM)		ż	1.55	61.83	6.90		80.0	
10097- CAB 10098- CAB 10098- CAB 10099- DAC 10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10108- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10108- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10108- CAE MHz, QPSK)		x	100.00	115.94	28.89	6.56	60.0	± 9.6 %
10098- CAB 10098- CAB 10099- DAC 10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10101- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10108- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10109- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK)	,	Υ	100.00	116.39	28.75		60.0	
10098- CAB 10098- CAB 10099- DAC EDGE-FDD (TDMA, 8PSK, TN 0-4) DAC 10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2) MHz, QPSK) 10101- CAD LTE-FDD (SC-FDMA, 100% RB, 2) MHz, 16-QAM) 10102- CAD LTE-FDD (SC-FDMA, 100% RB, 2) MHz, 64-QAM) 10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2) MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2) MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2) MHz, 16-QAM) 10108- CAE MHz, QPSK) 10109- CAE LTE-FDD (SC-FDMA, 100% RB, 2) MHz, QPSK) 10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2) MHz, QPSK)		Z	100.00	115.35	28.42		60.0	
10109-DAC EDGE-FDD (TDMA, 8PSK, TN 0-4 10100-CAD		X	1.73	66.76	14.97	0.00	150.0	± 9.6 %
10099-DAC EDGE-FDD (TDMA, 8PSK, TN 0-4 10100-LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10101-LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10102-LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10103-LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10104-LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105-CAD MHz, 64-QAM) 10108-LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108-CAE MHz, QPSK) 10109-CAE MHz, QPSK)		Υ	1.76	67.41	15.16		150.0	
10109-DAC EDGE-FDD (TDMA, 8PSK, TN 0-4 10100-CAD		Z	1.72	67.00	15.02		150.0	
10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10101- CAD MHz, 16-QAM) 10102- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10103- CAD MHz, QPSK) 10104- CAD MHz, 16-QAM) 10105- CAD MHz, 16-QAM) 10105- CAD MHz, 64-QAM) 10108- CAD MHz, G4-QAM) 10108- CAE MHz, QPSK) 10109- CAE MHz, QPSK) 10110- CAE QPSK)		X	1.69	66.71	14.93	0.00	150.0	± 9.6 %
10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10101- CAD MHz, 16-QAM) 10102- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10103- CAD MHz, QPSK) 10104- CAD MHz, 16-QAM) 10105- CAD MHz, 16-QAM) 10105- CAD MHz, 64-QAM) 10108- CAD MHz, G4-QAM) 10108- CAE MHz, QPSK) 10109- CAE MHz, 16-QAM) 10109- CAE MHz, 16-QAM)		Y	1.72	67.36	15.13		150.0	
10100- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10101- CAD MHz, 16-QAM) 10102- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10103- CAD MHz, QPSK) 10104- CAD MHz, 16-QAM) 10105- CAD MHz, 16-QAM) 10105- CAD MHz, 64-QAM) 10108- CAD MHz, G4-QAM) 10108- CAE MHz, QPSK) 10109- CAE MHz, 16-QAM) 10110- CAE MHz, 16-QAM)		Z	1.69	66.94	14.98		150.0	+000
CAD MHz, QPSK) 10101- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10102- CAD MHz, 64-QAM) 10103- CAD MHz, QPSK) 10104- CAD MHz, QPSK) 10105- CAD MHz, 16-QAM) 10105- CAD MHz, 64-QAM) 10108- CAD MHz, G4-QAM) 10108- CAE MHz, QPSK) 10109- CAE MHz, 16-QAM) 10109- CAE MHz, GC-FDMA, 100% RB, 2 MHz, QPSK) 10110- CAE MHz, 16-QAM)	<u> </u>	X	21.17	106.37	36.62	9.56	60.0	± 9.6 %
CAD MHz, QPSK) 10101- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10102- CAD MHz, 64-QAM) 10103- CAD MHz, QPSK) 10104- CAD MHz, QPSK) 10105- CAD MHz, 16-QAM) 10105- CAD MHz, 64-QAM) 10108- CAD MHz, G4-QAM) 10108- CAE MHz, QPSK) 10109- CAE MHz, 16-QAM) 10109- CAE MHz, GC-FDMA, 100% RB, 2 MHz, QPSK) 10110- CAE MHz, 16-QAM)		Υ	31.53	119.75	41.66		60.0	
CAD MHz, QPSK) 10101- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10102- CAD MHz, 64-QAM) 10103- CAD MHz, QPSK) 10104- CAD MHz, QPSK) 10105- CAD MHz, 16-QAM) 10105- CAD MHz, 64-QAM) 10108- CAD MHz, G4-QAM) 10108- CAE MHz, QPSK) 10109- CAE MHz, 16-QAM) 10109- CAE MHz, QPSK)		Z	22.53	108.88	37.59	0.00	60.0	±9,6%
CAD MHz, 16-QAM) 10102- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10103- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10104- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10110- LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) 10110- LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)		X	3.02	69.66	16.13	0.00	150.0	±9.6 %
CAD MHz, 16-QAM) 10102- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10103- CAD MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- CAD MHz, 64-QAM) 10108- CAD LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE MHz, QPSK) 10109- CAE MHz, 16-QAM) 10110- CAE QPSK) 10110- CAE QPSK)		Y	2.98	69.86	16.33		150.0	
CAD MHz, 16-QAM) 10102- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10103- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10104- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10110- LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) 10110- LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)		Z	2.99	69.71	16.19	0.00	150.0	1000
CAD MHz, 64-QAM) 10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- CAE MHz, 16-QAM) 10110- CAE QPSK)	İ	X	3.20	67.30	15.63	0.00	150.0	± 9.6 %
CAD MHz, 64-QAM) 10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- CAE MHz, 16-QAM) 10110- CAE QPSK)		Υ	3.15	67.42	15.72		150.0	
CAD MHz, 64-QAM) 10103- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- CAE MHz, 16-QAM) 10110- CAE QPSK)		Z	3.17	67.31	15.65		150.0	
CAD MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- CAE MHz, QPSK) 10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)		Х	3.31	67.28	15.74	0.00	150.0	± 9.6 %
CAD MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- CAE MHz, QPSK) 10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)		Υ	3.26	67.39	15,81		150.0	1
CAD MHz, QPSK) 10104- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- CAE MHz, QPSK) 10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM)		Z	3.27	67.30	15.76		150.0	
CAD MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- CAE MHz, 16-QAM) 10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10110- CAE QPSK)		Х	8.39	78.42	21.27	3.98	65.0	± 9.6 %
CAD MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- CAE MHz, 16-QAM) 10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10110- CAE QPSK)		Υ	8.55	79.75	21.92		65.0	
CAD MHz, 16-QAM) 10105- CAD LTE-TDD (SC-FDMA, 100% RB, 2 MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, QPSK) 10109- CAE MHz, 16-QAM) 10110- CAE LTE-FDD (SC-FDMA, 100% RB, 2 MHz, 16-QAM) 10110- CAE QPSK)		Z	8.43	78.92	21,50		65.0	
CAD MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, QPSK) 10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM) 10110- CAE QPSK)		X	8.28	76.92	21.52	3.98	65.0	±9.6%
CAD MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, QPSK) 10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM) 10110- CAE QPSK)		Υ	8.11	77.48	21.85		65.0	
CAD MHz, 64-QAM) 10108- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, QPSK) 10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM) 10110- CAE QPSK)		Z	8.18	77.09	21.61		65.0	
CAE MHz, QPŠK) 10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM) 10110- CAE QPSK) LTE-FDD (SC-FDMA, 100% RB, SQPSK)		X	7.63	75.31	21.13	3.98	65.0	±9.6%
CAE MHz, QPŠK) 10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM) 10110- CAE QPSK) LTE-FDD (SC-FDMA, 100% RB, SQPSK)		Υ	7.72	76.48	21.73	<u> </u>	65.0	<u> </u>
CAE MHz, QPŠK) 10109- CAE LTE-FDD (SC-FDMA, 100% RB, MHz, 16-QAM) 10110- CAE QPSK) LTE-FDD (SC-FDMA, 100% RB, SQPSK)		Z	7.57	75.55	21.26		65.0	1
10110- CAE MHz, 16-QAM) 10110- CAE QPSK)		X	2.65	68.92	15.95	0.00	150.0	± 9.6 %
CAE MHz, 16-QAM) 10110- LTE-FDD (SC-FDMA, 100% RB, 9 QPSK)		Y	2.59	69.14	16.15		150.0	ļ
CAE MHz, 16-QAM) 10110- LTE-FDD (SC-FDMA, 100% RB, 9 QPSK)		Z	2.61	68.99	16.01		150.0	1.000
CAE QPSK)		X	2.86	67.08	15.50	0.00	150.0	± 9.6 %
CAE QPSK)		Y	2.80	67.24	15.55	1	150.0	ļ
		Z X	2.82 2.15	67.11 67.97	15.51 15.52	0.00	150.0 150.0	± 9.6 %
10111- LTE-EDD (SC-EDMA 100% RB		\ <u>/</u>	2.00	60.07	45.00		150.0	
10111- LTE-FDD (SC-FDMA 100% RB		Y Z	2.09	68.27	15.68		150.0	
	E MU-	<u> </u>	2.11	68.06	15.56	0.00	150.0	± 9.6 %
CAE 16-QAM)	O IVIDZ,		2.54	67.60	15.65	0.00		1 3.0 /0
		Y Z	2.49 2.51	67.90 67.74	15.64 15.66		150.0 150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	2.98	67.08	15.57	0.00	150.0	± 9.6 %
		Υ	2.92	67.27	15.62		150.0	
		Ż	2.94	67.13	15.58		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.70	67.76	15.81	0.00	150.0	± 9.6 %
		Y	2.63	68.07	15.78	***************************************	150.0	
		Z	2.66	67.92	15.82		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.13	67.22	16.34	0.00	150.0	± 9.6 %
		Υ	5.06	67.35	16.39		150.0	
		Z	5.10	67.28	16.37		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.46	67.47	16.48	0.00	150.0	± 9.6 %
****		Υ	5.32	67.42	16.43		150.0	
		Ζ	5.39	67.43	16.46		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	5.25	67.46	16.39	0.00	150.0	± 9.6 %
		Υ	5.15	67.53	16.41		150.0	
		Z	5,20	67.47	16.40		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	5.10	67.11	16.30	0.00	150.0	± 9.6 %
		Υ	5.03	67.22	16.34		150.0	
		Ζ	5.06	67.11	16.31		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	Х	5.56	67.71	16.61	0.00	150.0	± 9.6 %
		Υ	5.40	67.63	16.55		150.0	
		Z	5.48	67.67	16.59		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.22	67.39	16.37	0.00	150.0	± 9.6 %
		Υ	5.13	67.49	16.40		150.0	
		Z	5.18	67.42	16.38		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.35	67.28	15.66	0.00	150.0	± 9.6 %
		Y	3.29	67.41	15.73		150.0	
		Z	3.31	67.30	15.68		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.47	67.38	15.84	0.00	150,0	±9.6 %
		Y	3.41	67.52	15.90		150.0	
		Z	3.43	67.42	15.86		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	1.91	67.75	15.10	0.00	150.0	± 9.6 %
		Y	1.84	68.07	15.11		150.0	
		Z	1.87	67.86	15.08		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.37	68.04	15.25	0.00	150.0	± 9.6 %
		Υ	2.29	68.28	15.02		150.0	
		Ζ	2.33	68.17	15.16		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	2.20	66.14	13.84	0.00	150.0	± 9.6 %
		Υ	2.08	66.17	13.48		150.0	
		Z	2.13	66,11	13.65		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	1.17	64.40	11.32	0.00	150.0	± 9.6 %
		Υ	0.99	63.23	9.93		150.0	
		Z	1.08	63.80	10.61		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	2.07	66.79	12.08	0.00	150.0	± 9.6 %
***************************************		Υ	1.74	65.46	10.58		150.0	
·····		Z	1.93	66.25	11.43		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	2.41	68.68	13.11	0.00	150.0	± 9.6 %
		1 37		A= 4A	1 44 50		4500	
		Y Z	2.02	67.13	11.50		150.0	

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	2.87	67.13	15.54	0.00	150.0	± 9.6 %
		Υ	2.81	67.29	15.59		150.0	
		Ζ	2.83	67.17	15.55		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	2.99	67.13	15.61	0.00	150.0	± 9.6 %
•••		Υ	2.93	67.31	15.66		150.0	
		Ζ	2,95	67.18	15.62		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	9.21	81.33	22.45	3.98	65.0	± 9.6 %
		Υ	9.55	83.12	23.24		65.0	
		Ζ	9.38	82.15	22.79		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	7.89	77.12	21.32	3.98	65.0	± 9.6 %
		Υ	7.75	77.78	21.62		65.0	
		Z	7.80	77.32	21.39		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.33	78.05	22.06	3.98	65.0	± 9.6 %
		Υ	8.20	78.76	22.36		65.0	
		Z	8.27	78.34	22.17		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	2.19	68.34	15.77	0.00	150.0	± 9.6 %
		Υ	2.13	68.58	15.88	·	150.0	
		Ζ	2.15	68.43	15.80		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.54	67.61	15.66	0.00	150.0	± 9.6 %
		Υ	2.49	67.93	15.66		150.0	
		Ζ	2.51	67.76	15.67		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.75	67.70	14.83	0.00	150.0	±9.6%
		Υ	1.67	67.86	14.67		150.0	
		Z	1.70	67.75	14.73		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	2.01	66.49	13.77	0.00	150.0	± 9.6 %
		Υ	1.89	66.41	13.28		150.0	
		Ζ	1.95	66.44	13.53		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	2.70	67.82	15.85	0.00	150.0	± 9.6 %
		Υ	2.64	68.13	15.83		150.0	
		Ζ	2.67	67.98	15.86		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.11	66.90	14.04	0.00	150.0	± 9.6 %
		Υ	1.98	66.74	13.50		150.0	
		Z	2.04	66.83	13.79		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	2.69	68.21	15.87	0.00	150.0	±9.6 %
		Υ	2.64	68.50	16.02		150.0	
		Z	2.66	68.34	15.93		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.88	67.04	15,53	0.00	150.0	± 9.6 %
		Υ	2.82	67.25	15.56		150.0	
		Z	2.84	67.11	15.53		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.99	67.17	15.64	0.00	150.0	± 9.6 %
		Υ	2,93	67.43	15.68		150.0	
		Z	2.96	67.27	15.66		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.67	69.76	19.07	3.01	150.0	± 9.6 %
		Υ	3.59	70.61	19.72		150.0	
		Z	3.64	70.17	19.36		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	4.60	72.78	19.56	3.01	150.0	± 9.6 %
		Υ	4.59	74.59	20.58		150.0	
		Ż	4.60	73.54	19.97		150.0	1

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	5.10	75.00	20.86	3.01	150.0	± 9.6 %
		Υ	5.17	77.15	22.00		150.0	
		Z	5.18	76.08	21.41		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.14	69.82	19.09	3.01	150.0	± 9.6 %
····		Υ	2,99	70.11	19.57		150.0	
40470		Z	3.08	69.99	19.30		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	4.48	76.11	21.47	3.01	150.0	± 9.6 %
		Υ	4.42	77.92	22.61		150.0	
10171-	LTE EDD (OO EDMA (DD OO)	Z	4.51	77.09	22.03		150.0	
AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.64	71.74	18.65	3.01	150.0	± 9.6 %
		<u>Y</u>	3.56	73.31	19.70		150.0	
10172	LTE TDD (CC TDMA 4 DD CC MIL)	Z	3.59	72.29	19.01		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	21.10	104.74	32.18	6.02	65.0	± 9.6 %
		Y	44.31	124.23	38.59		65.0	
10173-	LTE TOD (CO FDMA 4 DD CO	Z	24.87	109.58	33.89		65.0	
CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	37.36	109.91	31.76	6.02	65.0	± 9.6 %
*		Y	100.00	131.53	37.83		65.0	
10174-	LTE TDD (CO FDMA 4 DD CO FT)	Z	66,45	121.49	34.95		65.0	
CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	28.71	103.81	29.50	6.02	65.0	± 9.6 %
		Υ	93.12	128.22	36.43		65.0	
40475	LTC FDD (OO FDM) 4 DD 400M	Z	36.57	109.34	31.20		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	3.10	69.50	18.83	3.01	150.0	±9.6 %
		Υ	2.96	69.84	19.35		150.0	
		Ζ	3.04	69.66	19.04		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	4.49	76.13	21.48	3.01	150.0	± 9.6 %
***************************************		Υ	4.43	77.95	22.63		150.0	
		Z	4.52	77.11	22.04		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.13	69.65	18.93	3.01	150.0	± 9.6 %
		Υ	2.98	69.97	19.42		150.0	
		Z	3.07	69.81	19.14		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	4.43	75.88	21.35	3.01	150.0	± 9.6 %
		Υ	4.39	77.75	22.52		150.0	
40775		Z	4.47	76.86	21.91		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	4.01	73.75	19.90	3.01	150.0	± 9.6 %
		Y	3.96	75.54	21.04		150.0	
40400	LITE EDD (OO EDLA)	Z	4.01	74.52	20.37		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.63	71.66	18.60	3.01	150.0	± 9.6 %
		Υ	3.55	73.25	19.66		150.0	
40464		Z	3.59	72.21	18.96		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	×	3.13	69.64	18.92	3.01	150.0	± 9.6 %
		Y	2.98	69.95	19.42		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	Z X	3.06 4.42	69.80 75.86	19.13 21.34	3.01	150.0 150.0	± 9.6 %
UAD	16-QAM)	 	400	77 70	00.51		4=0 0	
		Y	4.38	77.72	22.51		150.0	
10183-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	Z	4.46	76.83	21.90	0.04	150.0	1000
AAC	64-QAM)	X	3.62	71.63	18.59	3.01	150.0	± 9.6 %
		Y	3.55	73.22	19.65		150.0	
		Z	3.58	72.19	18.94		150.0	

10184-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz,	Х	3,14	69.68	18.95	3.01	150.0	± 9.6 %
CAD	QPSK)			00.00	46.41		450.0	
		Υ	2.99	69.99	19.44		150.0	
		Z	3.07	69.84	19.16		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	×	4.45	75.93	21.38	3.01	150.0	± 9.6 %
•		Υ	4.40	77.80	22.55		150.0	
		Ζ	4.48	76.92	21.94		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	3.64	71.70	18.62	3.01	150.0	± 9.6 %
		Υ	3.56	73.30	19.69		150.0	
		Z	3.60	72.26	18.98		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	3,15	69.73	19.01	3.01	150.0	± 9.6 %
		Υ	3.00	70.06	19.51		150.0	
		Z	3.08	69.90	19.22		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	4.60	76.65	21.77	3.01	150.0	± 9.6 %
		Υ	4.55	78.49	22.93		150.0	
		Z	4.65	77.69	22.36		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.72	72.15	18.90	3.01	150.0	± 9.6 %
		Υ	3.65	73.76	19.97		150.0	
		Z	3.69	72.74	19.28	***************************************	150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	4.52	66.58	16.02	0.00	150.0	± 9.6 %
		Υ	4.45	66.79	16.05		150.0	
		Z	4.48	66.63	16.03		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.70	66,91	16.15	0.00	150.0	± 9.6 %
0/10	10 Q/ ((/))	Υ	4.60	67.08	16.18		150.0	
		Ż	4.65	66.95	16.16		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.74	66.94	16.17	0.00	150.0	± 9.6 %
0.70	0+Q/(W)	Y	4.65	67.11	16.20		150.0	
		Z	4.69	66.98	16.18		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.53	66.65	16.05	0.00	150.0	±9.6 %
0,10	Di City	Y	4.44	66.83	16.06	***************************************	150.0	
		Ż	4.48	66.69	16.05		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.72	66.93	16.16	0.00	150.0	± 9.6 %
0, 10	33 11.7	Υ	4.62	67.10	16.19		150.0	
		Z	4.66	66.97	16.17		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.75	66,96	16.18	0.00	150.0	±9.6 %
		Υ	4.64	67.13	16.21		150.0	
		Z	4.69	67.00	16.19		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.48	66.66	16.00	0.00	150.0	± 9.6 %
		Y	4.39	66.84	16.01		150.0	
		Ż	4.43	66.70	16.00		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.71	66.91	16.16	0.00	150.0	±9.6 %
		Y	4.61	67.06	16.18	1	150.0	
		Z	4.66	66.94	16.16		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.76	66.89	16.17	0.00	150.0	± 9.6 %
		Y	4.65	67.06	16.20		150.0	
		Ż	4.70	66.93	16.18		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.08	67.11	16.29	0.00	150.0	± 9.6 %
		Y	5.00	67.21	16.33		150.0	
	3		, 0.00	~			,	

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	5.40	67.34	16.44	0.00	150.0	± 9.6 %
		Υ	5.30	67.47	16,48		150.0	
		Z	5.35	67.37	16.45		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	Х	5.12	67.22	16.27	0.00	150.0	± 9.6 %
		Υ	5.04	67.32	16.31		150.0	
		Z	5.08	67.23	16.28		150.0	
10225- CAB	UMTS-FDD (HSPA+)	Х	2.77	65.87	15.07	0.00	150.0	± 9.6 %
		Υ	2.71	66.11	14.95		150.0	
10000		Z	2.73	65.95	15.01		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	40.90	111.69	32.33	6.02	65.0	±9.6 %
		Υ	100.00	131.74	37.97		65.0	
40007		Z	76.08	124.13	35.71		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	32.04	105.79	30.14	6.02	65.0	± 9.6 %
		Y	100.00	129.20	36.63		65.0	
40000	LITT TOD (OO =====	Z	56,03	116.66	33,17		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	32.49	113.40	34.73	6.02	65.0	± 9.6 %
		Υ	63.93	131.79	40.55		65.0	
4000-		Z	42.68	120.45	36.94		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	37.48	109.96	31.78	6.02	65.0	± 9.6 %
		Υ	100.00	131.51	37.84	***************************************	65.0	
		Z	66.68	121.54	34.97	***************************************	65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	29.78	104.42	29.68	6.02	65.0	± 9.6 %
		Υ	100.00	129.07	36.54		65.0	
		Ζ	50.21	114.61	32.57	***	65.0	***************************************
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	30.12	111.79	34.20	6.02	65.0	± 9.6 %
		Υ	57.30	129.38	39.87		65.0	
		Z	38.78	118.39	36.30		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	37.48	109.97	31.78	6.02	65.0	± 9.6 %
W-7/		Υ	100.00	131.53	37.84		65.0	
		Ζ	66.72	121.56	34.98		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	29.77	104.42	29.68	6.02	65.0	± 9.6 %
		Υ	100.00	129.09	36.55		65.0	
		Ζ	50.19	114.62	32.57		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	28.05	110.17	33.63	6.02	65.0	± 9.6 %
		Υ	51.99	127.09	39.16		65.0	
		Z	35.54	116.41	35.65		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	37.64	110.05	31.80	6.02	65.0	± 9.6 %
		Υ	100.00	131.54	37.84		65.0	
		Z	67.18	121.70	35.01		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	30.09	104.58	29,72	6.02	65.0	±9.6 %
		Υ	100.00	129.03	36.52		65.0	
		Z	50.96	114.84	32.62		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	30.42	112.00	34.26	6.02	65.0	± 9.6 %
		Υ	58.39	129.80	39.98		65.0	
		Z	39.25	118.66	36.38		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	Х	37.48	109.98	31.78	6.02	65.0	± 9.6 %
CAD		Υ	100.00	131.54	37.84		65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	29.75	104.43	29.68	6.02	65.0	± 9.6 %
0/10	0.7 (2,111)	Y	100.00	129.11	36.55		65.0	
		Z	50.17	114.63	32.57		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	30.30	111.94	34.24	6.02	65.0	± 9.6 %
		Υ	58.14	129.72	39.96		65.0	
		Z	39.09	118.59	36.36		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	11.80	86.80	27.35	6.98	65.0	± 9.6 %
		Y	13.67	92.53	29.81		65.0	
		Z	12.27	88.56	28.08		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	10.15	83.59	26.03	6.98	65.0	± 9.6 %
		Y	12.26	90.20	28.90		65.0	
		Z	10.49	85.23	26.75	0.00	65.0	1000
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	8.15	80.45	25.67	6.98	65.0	± 9.6 %
.,,		Y	9.07	85.16	28.03		65.0	
		Z	8.20	81.43	26.18	~ ~~	65.0	1000
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	8.77	79.58	20.12	3.98	65.0	± 9.6 %
		Y	8.68	79.98	19.73		65.0	
		Z	8.93	80.10	20.07		65.0	. 0 0 0/
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	8.56	78.94	19.83	3.98	65.0	±9.6 %
		Υ	8.27	79.00	19.30		65.0	
		Z	8.60	79.28	19.71		65.0	1000
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	×	9.05	82.96	21.42	3.98	65.0	± 9.6 %
		Y	8.67	82.79	20.89		65.0	
		Z	9.07	83.18	21.25		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	7.31	77.47	20.01	3.98	65.0	± 9.6 %
		Υ	6.88	77.10	19.42		65.0	
		Z	7.16	77.42	19.78		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	7.23	76.85	19.75	3.98	65.0	± 9.6 %
		Υ	6.75	76.40	19.13		65.0	
		Z	7.04	76.72	19.48		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	10.55	85.88	23.24	3.98	65.0	±9.6%
		Υ	11.23	87.71	23.62		65.0	
		<u>Z</u>	11.08	87.02	23.49		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	8.37	79.97	22.44	3.98	65.0	±9.6%
		Y	8.25	80.64	22.58		65.0	
		Z	8.37	80.40	22.54		65.0	\
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	7.79	77.55	21.17	3.98	65.0	± 9.6 %
	-	Υ	7.62	78.12	21.26		65.0	
		Z	7.71	77.78	21.18		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	10.26	85.03	23.77	3.98	65.0	±9.6%
		Υ	11.07	87.53	24.67		65.0	
		Z	10.72	86.30	24.20	<u> </u>	65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	7.69	76.53	21.09	3.98	65.0	± 9.6 %
		Y	7.57	77.22	21.35		65.0	
		Z	7,61	76.75	21.15	1	65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	8.11	77.42	21.76	3.98	65.0	± 9.6 %
		Y	7.99	78.11	22.01		65.0	
		Z	8.04	77.70	21.84		65.0	

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	8.87	80.90	22.51	3.98	65.0	± 9.6 %
		Y	9.18	82.66	23.26		65.0	1
		Z	9.01	81.69	22.82			
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	7.19	76.04	17.83	3.98	65.0 65.0	± 9.6 %
		Y	6.37	74.72	16.60		65.0	
		Z	6.91	75.63	17.34		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	6.95	75.20	17.41	3.98	65.0	± 9.6 %
		Υ	6.01	73.59	16.03		65.0	
		Z	6.60	74.62	16.84		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	7.08	78.57	19.08	3.98	65.0	± 9.6 %
		Υ	5.96	76.36	17.58		65.0	
10050		Z	6.63	77.70	18.41		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	7.72	78.37	20.87	3.98	65.0	± 9.6 %
		Υ	7.43	78.48	20.58		65.0	
40000		Z	7.64	78.54	20.77		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	7.71	78.04	20.75	3.98	65.0	± 9.6 %
		Υ	7.37	78.04	20.41		65.0	
40004	LITE TOD (OO EDINA (OO)	Ζ	7.60	78.14	20.63		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	9.91	84.71	23.20	3.98	65.0	± 9.6 %
		Y	10.51	86.66	23.72	.,,	65.0	
40000	LTE TOD (OO FOLIA 1000) FOR 5 1111	Z	10.31	85.78	23.47		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	8.35	79.91	22.40	3.98	65.0	± 9.6 %
		Υ	8.23	80.57	22.53		65.0	
40000	LATE TOD (OR EDMA 4000)	Z	8.35	80.33	22.49		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	7.78	77.53	21.17	3.98	65.0	± 9.6 %
		Υ	7.61	78.09	21.25		65.0	
40004		Z	7.70	77.76	21.18		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	10.16	84.83	23.68	3.98	65.0	± 9.6 %
		Υ	10.94	87.30	24.57		65.0	
4000=		Z	10.60	86.08	24.10		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	7.89	77.12	21.33	3.98	65.0	± 9.6 %
		Y	7.75	77.78	21.62		65.0	
40000	LTE TOD (OC FOMA 4000) DR 40	<u>Z</u>	7.80	77.33	21.40		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	8.32	78.04	22.05	3.98	65.0	± 9.6 %
		Y	8.20	78.75	22.36		65.0	
10067	LTE TOD (DO COMA 4000) DD 40	Z	8.26	78.33	22.16		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	9.19	81.29	22.44	3.98	65.0	± 9.6 %
		Y	9.53	83.07	23.22		65.0	
10268-	LITE TOD (CC CDMA 4000) OD 45	Z	9.36	82.10	22.77		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	8.37	76.65	21.54	3.98	65.0	± 9.6 %
		Y	8.20	77.22	21.85		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	8.27 8.29	76.83 76.22	21.63 21.43	3.98	65.0 65.0	± 9.6 %
<u> </u>	MO IZ, OT GOME!	Y	8.13	76.76	21 70		GE A	-
		Z	8.20	76.78	21.72 21.51		65.0	
10270-	LTE-TDD (SC-FDMA, 100% RB, 15	X	8.55	78.25	21.51	3.98	65.0	± 9.6 %
CAD	MHz, QPSK)					3.86	65.0	I 9.0 %
		Y	8.58	79.32	21.98		65.0	
·····		Z	8.56	78.72	21.66		65.0	<u> </u>

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	Х	2.53	66.08	14.88	0.00	150.0	± 9.6 %
OND	(NGIO. FO)	Υ	2.52	66.54	14.91		150.0	
		Z	2.52	66.24	14.87		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.51	66.90	14.72	0.00	150.0	±9.6 %
07.0	110.0.17	Υ	1.52	67.44	14.98		150.0	
		Z	1.50	67.06	14.77		150.0	
10277- CAA	PHS (QPSK)	X	4.49	67.07	11.86	9.03	50.0	± 9.6 %
		Υ	3.76	65.67	10.51		50.0	
***************************************		Z	4.09	66.15	11.03		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	Х	8.37	78.55	19.37	9.03	50.0	± 9.6 %
		Υ	7.19	76.56	17.89		50.0	
		Z	7.75	77.39	18.52		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	8.51	78.75	19.47	9.03	50.0	± 9.6 %
		Υ	7.31	76.76	18.01		50.0	
		Ζ	7.88	77.58	18.63		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	1.28	66.85	12.83	0.00	150.0	± 9.6 %
		Υ	1.15	66.36	12.07		150.0	
		Z	1.21	66.57	12.40		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	0.73	64.15	11.20	0.00	150.0	± 9.6 %
		Υ	0.69	64.04	10.71		150.0	
		Z	0.69	63.98	10.82		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	Х	0.85	66.79	12.92	0.00	150.0	±9.6 %
		Υ	0.83	67.15	12.67		150.0	
		Ζ	0.82	66.81	12.63		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	1.14	70.77	15.25	0.00	150.0	± 9.6 %
		Υ	1.22	72.07	15.35		150.0	<u> </u>
		Z	1.16	71.38	15.20		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11.92	86.64	24.71	9.03	50.0	± 9.6 %
		Υ	15.63	91.98	26.09		50.0	
		Z	13.21	88.61	25,13		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	2.66	69.01	16.01	0.00	150.0	± 9.6 %
		Υ	2.60	69.22	16.21		150.0	
		Z	2.62	69.08	16.08		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1,46	66.51	13.33	0.00	150.0	± 9.6 %
		Υ	1.32	65.99	12.56		150.0	<u> </u>
		Z	1.39	66.26	12.94		150.0	<u> </u>
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	2.70	69.70	14.37	0.00	150.0	± 9.6 %
		Υ	2.67	70.31	14.00		150.0	
		Z	2.72	70.11	14.27	ļ	150.0	<u> </u>
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	2.09	65.56	11.69	0.00	150.0	± 9.6 %
		Υ	1.84	65.02	10.77	1	150.0	
		Z	1.98	65.35	11.29		150.0	
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Х	5.46	67.87	18.50	4.17	80.0	± 9.6 %
		Υ	5.32	68.03	18.43		80.0	
		Z	5.39	67.94	18.48		80.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	Х	5.85	67.98	18.95	4.96	80.0	± 9.6 %
		Υ	5.80	68.69	19.24		80.0	
		Z	5.75	67.96	18.88		80.0	

40000								
10303- AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.66	67.92	18.92	4.96	80.0	± 9.6 %
		Υ	5.61	68.61	19.19		80.0	
40004		Z	5.56	67.86	18.83		80.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	5.35	67.35	18.18	4.17	80.0	± 9.6 %
		Υ	5.30	68.04	18.43		80.0	
		Z	5,26	67.36	18.12		80.0	•
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	Х	7.05	76.99	23.82	6.02	50.0	± 9.6 %
		Υ	7.19	78.32	24.16		50.0	
40000		Z	6.80	76.50	23.43		50.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	5.82	69.84	20.44	6.02	50.0	± 9.6 %
***************************************		Y	5.84	70.99	20.86		50.0	
4000=		Z	6.02	71.90	21.62		50.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	Х	6.31	73.07	22.13	6.02	50.0	± 9.6 %
		Y	5.83	71.38	20.88		50.0	
1005-		Z	6.11	72.72	21.84		50.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	6.39	73.64	22.41	6.02	50.0	± 9.6 %
		Υ	5.90	71.88	21.13		50.0	
		Ζ	6.20	73.31	22.13		50.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	Х	5.91	70.12	20.60	6.02	50.0	± 9.6 %
		Y	5.91	71.23	21.02		50.0	
		Z	6.11	72.19	21.79		50.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	6.22	72.50	21.95	6.02	50.0	± 9.6 %
		Υ	5.84	71.19	20.88		50.0	
		Z	6.05	72.25	21.70		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	3.00	68.33	15.71	0.00	150.0	± 9.6 %
		Y	2.96	68.52	15.89		150.0	
		Z	2.97	68.38	15.77		150.0	
10313- AAA	IDEN 1:3	X	6.99	77.76	18.02	6.99	70.0	± 9.6 %
		Y	8.29	81.34	19.42		70.0	
		Z	7.24	78.54	18.23		70.0	
10314- AAA	iDEN 1:6	X	10.49	86.54	23.63	10.00	30.0	± 9.6 %
		Y	12.83	91.81	25.63		30.0	
		Z	11.85	89.04	24.41		30.0	,,,,
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.08	63.85	14.84	0.17	150.0	± 9.6 %
		Y	1.11	64.19	15.04		150.0	
		Ζ	1.08	63.97	14.91		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.62	66.77	16.25	0.17	150.0	± 9.6 %
		Y	4.54	66.97	16.29		150.0	,,,,,,,
		Z	4.57	66.82	16.26		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.62	66.77	16.25	0.17	150.0	± 9.6 %
		Υ	4.54	66.97	16.29		150.0	
		Z	4.57	66,82	16.26		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.70	66,97	16.15	0.00	150.0	± 9.6 %
		Υ	4.59	67.15	16.19		150.0	
	-	Z	4.64	67.01	16.16	***************************************	150.0	***************************************
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.41	67.24	16.37	0.00	150.0	± 9.6 %
		Υ	E 22	67.00	40.40		/	
		ì I	5.32	67.38	16.42		150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	Х	5.66	67.55	16.37	0.00	150.0	± 9.6 %
700	5500 4417 575157	Y	5.56	67.58	16.37		150.0	
		Z	5.60	67.52	16.36	***************************************	150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.28	66.85	12.83	0.00	115.0	±9.6 %
		Υ	1.15	66.36	12.07		115.0	
		Z	1.21	66.57	12.40		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	1.28	66.85	12.83	0.00	115.0	± 9.6 %
		Υ	1.15	66.36	12.07		115.0	
		Z	1.21	66.57	12.40		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	Х	31.97	105.65	26.52	0.00	100.0	± 9.6 %
		Υ	100.00	119.11	28.78		100.0	
		Z.	100.00	120.25	29.60		100.0	
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	Х	100.00	119.16	29.68	3.23	80.0	±9.6 %
		Υ	100.00	122.81	30.98		80.0	
		Z	100.00	120.19	29.97		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	0.96	62.46	13.98	0.00	150.0	± 9.6 %
		Y	0.99	62.90	14.23		150.0	
		Z	0.95	62.59	14.06		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	Х	4.53	66.62	16.09	0.00	150.0	±9.6%
		Υ	4.45	66.83	16.13		150.0	
		Z	4.48	66.68	16.10		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х	4.53	66.62	16.09	0.00	150.0	±9.6%
7470		Υ	4.45	66.83	16.13		150.0	
		Z	4.48	66.68	16.10		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	Х	4.51	66.76	16.09	0.00	150.0	±9.6 %
		Y	4.44	67.00	16.16		150.0	
		Z	4.47	66.83	16.12		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	Х	4.54	66.72	16.10	0.00	150.0	± 9.6 %
		Υ	4.46	66.94	16.15		150.0	
		Z	4.49	66.78	16.12		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	Х	4.66	66.73	16.13	0.00	150.0	± 9.6 %
		Y	4.57	66.94	16.17		150.0	
		Z	4.61	66.79	16.14		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	Х	4.83	67.07	16.25	0.00	150.0	± 9.6 %
		Υ	4.72	67.22	16.28		150.0	
		Z	4.77	67.10	16.25		150.0	1
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	Х	4.75	67.01	16.22	0,00	150.0	± 9.6 %
		Y	4.64	67.18	16.25		150.0	<u> </u>
		Z	4.69	67.05	16.23		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Х	5.37	67.43	16.45	0.00	150.0	± 9.6 %
		Υ	5.26	67.46	16.45		150.0	
		Z	5.32	67.43	16.46		150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.37	67.44	16.46	0.00	150.0	± 9.6 %
		Y	5.28	67.55	16.49		150.0	
		Z	5.33	67.49	16.49	1	150.0	-

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.38	67.41	16.44	0.00	150.0	± 9.6 %
		Y	5.27	67.46	16.44		150.0	
		Z	5.33	67.43	16.45		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.17	70.27	17.81	0.00	150.0	± 9.6 %
		Υ	4.03	70.48	17.58	†	150.0	
		Z	4.14	70.57	17.85	 	150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	Х	4.21	67.11	16.05	0.00	150.0	± 9.6 %
		Υ	4.09	67.33	16.03		150.0	
40400		Z	4.15	67.18	16.04		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	Х	4.51	67.03	16.15	0.00	150.0	± 9.6 %
		Y	4.40	67.23	16.17		150.0	
40400	LTC EDD (OED) (A co.)	Z	4.46	67.08	16.15		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	Х	4.76	67.04	16.24	0.00	150.0	± 9.6 %
		Y	4.66	67.21	16.27		150.0	
10434	W CDMA /BC Toot Madel 4 O4 BBOLD	Z	4.71	67.08	16.24		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.23	70.97	17.72	0.00	150.0	± 9.6 %
		Υ	4.07	71.14	17.40		150.0	
10435-	THE TOD (CC FOMA A DD CO MIL	Z	4.21	71.31	17.74		150.0	
AAC AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	118.98	29.60	3.23	80.0	± 9.6 %
		Υ	100.00	122.59	30.87		80.0	
10447-	LTE EDD (OFDIA) E MILL E TILO.	Z	100.00	119.99	29.88		80.0	
AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.49	66.99	15.32	0.00	150.0	± 9.6 %
		Υ	3.34	67.16	15.09		150.0	
40440	LTE EDD (OFDMA (O.M.)	Z	3.41	67.04	15.22		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Х	4.04	66.88	15.90	0.00	150.0	± 9.6 %
		Υ	3.94	67.12	15.89		150.0	
40440		Z	3.99	66.95	15.89		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	Х	4.32	66.84	16.03	0.00	150.0	± 9.6 %
		Υ	4.23	67.04	16.06		150.0	
40450		Z	4.27	66.90	16.04		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.51	66.79	16.08	0.00	150.0	± 9.6 %
		Y	4.44	66.97	16.11		150.0	
10451-	W ODMA /DOT 114 DISCOUR	Z	4.47	66.83	16.09		150.0	
AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.37	67.12	14.92	0.00	150.0	± 9.6 %
		Y	3.19	67.13	14.54		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Z X	3.28 6.23	67.11 67.99	14.76 16.62	0.00	150.0 150.0	± 9.6 %
	1, -, -, -, -, -, -, -, -, -, -, -,	Υ	6.17	68.10	16.67		150.0	
		Ż	6.19	67.99	16.63		150.0	***************************************
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.77	65.25	15.79	0.00	150.0	± 9.6 %
		Υ	3.75	65.50	15.83		150.0	
		Z	3.75	65.32	15.80		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	3.87	70.16	17.10	0.00	150.0	± 9.6 %
		Υ	3.71	70.34	16.66		150.0	
		Z	3.84	70.49	17.05		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	Х	5.00	67.94	17.87	0.00	150.0	± 9.6 %
		Υ	4.81	68.13	17.56		150.0	

10460-	UMTS-FDD (WCDMA, AMR)	ΧТ	0.79	66.34	14.61	0.00	150.0	± 9.6 %
AAA	, ,				45.45		450.0	
		Y	0.84	67.16	15.15		150.0 150.0	
40404	LTE TDD (CC EDMA 4 DB 4 4 MU»	Z X	0.79 100.00	66.65 122.59	14.76 31.33	3.29	80.0	± 9.6 %
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)					3.29		1 9.0 70
		Y	100.00	128.70	33.71		80.0	
		Z	100.00	124.88	32.17	0.00	80.0	1069/
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	21.46	90.49	19.92	3.23	80.0	± 9.6 %
		Y	100.00	107.87	23.85		80.0	
		Z	100.00	106.49 74.65	23.49	3.23	80.0 80.0	± 9.6 %
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.25		14.70	3.23		I 9.0 %
		Υ	19.71	88.51	18.38		80.0	
		Z	7.19	78.06	15.56	0.00	80.0	1069
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	120.34	30.14	3.23	80.0	± 9.6 %
		Υ	100.00	126.35	32.46		80.0	
		Ζ	100.00	122.50	30.92		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	11.73	83.97	18.05	3.23	80.0	± 9.6 %
		Υ	100.00	107.24	23.55		80.0	
		Z	41.80	97.17	21.26		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	4.09	72.04	13.74	3.23	80.0	± 9.6 %
		Υ	8.97	80.87	16.24		80.0	
		Z	4.77	73.97	14.19		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	120.57	30.24	3.23	80.0	± 9.6 %
		Υ	100.00	126.64	32.58		80.0	
		Z	100.00	122.76	31.03		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	13.52	85.52	18.51	3.23	80.0	± 9.6 %
		Y	100.00	107.47	23.65		80.0	l l
		Z	60.78	101.09	22.20		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	4.11	72.11	13.77	3.23	80.0	± 9.6 %
		Y	9.29	81.22	16.33		80.0	
		Z	.4.83	74.11	14.24		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100,00	120.59	30.24	3.23	80.0	± 9.6 %
		Y	100.00	126.67	32.59		80.0	1
,		Z	100.00	122.78	31.03		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	13.37	85.38	18.46	3.23	80.0	± 9.6 %
		Υ	100.00	107.40	23.62		80.0	
		Z	59.33	100.79	22.11		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.08	72.03	13.72	3.23	80.0	± 9.6 %
		Y	9.15	81.05	16.27		80.0	
		Z	4.78	73.98	14.18		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.56	30.23	3.23	80.0	± 9.6 %
		Υ	100.00	126,64	32.58		80.0	
		Z	100.00	122.75	31.02		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	13.19	85.24	18.42	3.23	80.0	± 9.6 %
, = 10	1	Υ	100.00	107.40	23.61		80.0	
,,,,,		Z	57.55	100.49	22.04		80.0	
10475-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-	X	4.06	71.97	13.71	3.23	80.0	± 9.6 %
	DAM III Subtrame=23.4 / 8.91							
AAC	QAM, UL Subframe=2,3,4,7,8,9)	Y	8.99	80.90	16.23		80.0	

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	11.86	84.06	18.05	3.23	80.0	± 9.6 %
		Y	100.00	107.19	23.51		80.0	
40470	LTE TDD (06	Z	43.65	97.56	21.32		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.02	71.87	13.66	3.23	80.0	± 9.6 %
		Υ	8.76	80.61	16.13		80.0	
40470	LTC TDD (OO TDV)	Z	4.66	73.74	14.09		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	14.17	93.60	25.28	3.23	80.0	± 9.6 %
		Υ	63.86	118.32	31.85		80.0	
10480-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	30.71	105.97	28.68		80.0	
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)	X	12,48	86.47	21.39	3.23	80.0	± 9.6 %
		Y	53.06	106.13	26.31		0.08	
10481-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	23.73	95.20	23.69		80.0	
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)	Х	9.79	82.49	19.78	3.23	80.0	± 9.6 %
		Y	26.62	95.88	23.20		80.0	
10482-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z	15.46	88.60	21.40		80.0	
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	X	4.76	76.35	18.33	2.23	80.0	±9.6%
		Y	4.38	75.77	17.66		80.0	
10483-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z	4.74	76.54	18.16		80.0	
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.86	78.09	18.71	2.23	80.0	± 9.6 %
		Y	7.58	79.80	18.72		80.0	
10484-	LTC TDD (CC EDMA 500/ DD C MIL	Z	7.91	80.19	19.17		80.0	
AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.29	76.73	18.22	2.23	80.0	±9.6 %
		Υ	6.51	77.64	17.97		80.0	
40405		Ζ	6.95	78.27	18.51		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.21	77.92	19.79	2.23	80.0	± 9.6 %
		Υ	5.14	78.56	19.82		80.0	
40400		Z	5.34	78.68	19.95		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.30	72.12	17.19	2.23	80.0	± 9.6 %
		Υ	4.02	71.85	16.65		80.0	
1010=		Ζ	4.23	72.22	17.03		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.25	71.63	16.98	2.23	80.0	± 9.6 %
***************************************		Υ	3.95	71.26	16.39		80.0	
40405		Z	4.16	71.66	16.79		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.17	76.41	19.90	2.23	80.0	± 9.6 %
		Υ	5.01	76.93	20.15		80.0	
40400	LITE TOD (OO FOLK FOR FOR	Z	5.17	76.91	20.10		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.47	71.61	18.14	2.23	80.0	± 9.6 %
·····		Υ	4.30	71.84	18.12		80.0	
40400	LITE TOP (OO FOLK)	Z	4.42	71.84	18.19		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.53	71.33	18.05	2.23	80.0	± 9.6 %
		Υ	4.36	71.56	18.01		80.0	
10491-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Z X	4.48 5.06	71.55 74.04	18.09 19.16	2.23	80.0 80.0	± 9.6 %
AAC	QPSK, UL Subframe=2,3,4,7,8,9)		***************************************					
		Y	4.88	74.37	19.37	***************************************	80,0	
/ 0 / 0 - 0		Z	5.01	74.33	19.30		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.71	70.55	18.02	2.23	80.0	± 9.6 %
		Υ	4.54	70.71	18.05		80.0	
		Z	4.64	70.68	18.06			

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.76	70.36	17.96	2.23	80.0	± 9.6 %
	5 - 2 (iii) 0 a 0 0 0 0 0 0 iii) 1 1 1 1 1 1 1 1 1 1	Y	4.58	70.52	17.98		80.0	
		Z	4.69	70.49	18.00		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.60	75.75	19.64	2.23	80.0	± 9.6 %
7770	Qi Cit; OE Gabitanto 2,6,1,1,6,6,7	Y	5.37	76.02	19.87		80.0	
		Z	5.56	76.06	19.81		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.78	71.03	18.23	2.23	80.0	± 9.6 %
<u> </u>	10 Q/ tivi, GE Oubildino 2,0,111,0,0)	Υ	4.59	71.11	18.27		' 80.0	
***************************************		ż	4.71	71.14	18,28		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.83	70.65	18.12	2.23	80.0	± 9.6 %
		Υ	4.64	70.74	18.15		80.0	
		Z	4.75	70.76	18.17		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3,37	71.45	15.57	2.23	80.0	± 9.6 %
		Υ	2.72	69.17	13.95		80.0	
		Z	3.09	70.50	14.83		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.40	64.81	11.76	2.23	80.0	± 9.6 %
	,,,,,,,	Y	1.75	62.03	9.60		80.0	
		Z	2.07	63.39	10.68		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.32	64.18	11.33	2.23	80.0	±9.6 %
		Υ	1.68	61.41	9.14		80.0	
		Z	1.99	62.76	10.23		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.05	76.85	19.69	2.23	80.0	± 9.6 %
		Υ	4.98	77.59	19.85		80.0	<u> </u>
		Z	5.12	77,53	19.88		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.38	71.91	17.55	2.23	80.0	±9.6 %
		Y	4.19	72.01	17.27		80.0	
		Z	4.33	72.13	17.50		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.41	71.66	17.40	2.23	80.0	± 9.6 %
		Υ	4.21	71.71	17.09		80.0	
		Z	4.36	71.85	17.33		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.10	76.19	19.80	2.23	80.0	± 9.6 %
		Y	4.94	76.71	20.05		80.0	
		Z	5.10	76.67	19.99		80.0	<u> </u>
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4,44	71.51	18.08	2.23	80.0	± 9.6 %
		Υ	4.28	71.74	18.06		80.0	
		Z	4.39	71.73	18.13	1	80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.51	71.23	18.00	2.23	80.0	± 9.6 %
		Υ	4.34	71.46	17.96		80.0	<u> </u>
		Z	4.45	71.44	18.03		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.55	75.59	19.57	2.23	80.0	± 9.6 %
		Υ	5.33	75.87	19.80		80.0	
		Z	5.51	75.90	19.73		80.0	ļ
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.76	70.96	18.19	2,23	80.0	± 9.6 %
		Y	4.57	71.05	18.23		80.0	
		Z	4.69	71.07	18.24		80.0	T

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.81	70.58	18.08	2.23	80.0	± 9.6 %
		Y	4.62	70.68	18.11		80.0	
		Z	4.73	70.68	18.12		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.59	73.58	18.84	2.23	80.0	± 9.6 %
		Y	5.39	73.76	19.02		80.0	
		Z	5.53	73.76	18.95		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.20	70.42	18.08	2.23	80.0	±9.6 %
		Y	4.99	70.43	18.12		80.0	
40544		Z	5.11	70.45	18.12		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.22	70.10	18.00	2.23	80.0	±9.6%
		Υ	5.03	70.13	18.04		80.0	
		Z	5.14	70.14	18.03		80.0	1
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.02	75.44	19.39	2.23	80.0	± 9.6 %
		Υ	5.78	75.56	19.57		80.0	
10510		Z	5.97	75.65	19.51		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.12	70.82	18.23	2.23	80.0	±9.6 %
		Υ	4.91	70.75	18.25		80.0	
40544	LTC TDD (OO FOLK)	Z	5.03	70.83	18.26		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.09	70.31	18.08	2.23	80.0	± 9.6 %
		Υ	4.90	70.27	18.11		80.0	
		Z	5.01	70.33	18.11		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.92	62.60	13.99	0.00	150.0	± 9.6 %
		Y	0.95	63.05	14.27		150.0	
10516-	IEEE 000 44h MEE 0 4 OU (DOOD E.E.	Z	0.91	62.72	14.07		150.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.48	67.26	14.71	0.00	150.0	± 9.6 %
		Y	0.54	68.48	15.75		150.0	
10517-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z	0.49 0.75	67.82	15.05	0.00	150.0	
AAA	Mbps, 99pc duty cycle)		0.79	64.05	14.24	0.00	150.0	± 9.6 %
		Y Z	0.75	64.60 64.23	14.65 14.37		150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.52	66.69	16.06	0.00	150.0 150.0	± 9.6 %
		Y	4.44	66.90	16.10	<u> </u>	150.0	
		Z	4.47	66.75	16.07		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	4.71	66.95	16.20	0.00	150.0	± 9.6 %
		Υ	4.60	67.11	16.21		150.0	
40500		Z	4.65	66.98	16.20		150.0	
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	Х	4.56	66.90	16.11	0.00	150.0	± 9.6 %
,		Y	4.46	67.05	16.12		150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	Z X	4.50 4.49	66.93 66.89	16.11 16.09	0.00	150.0 150.0	± 9.6 %
	F-,	Y	4.39	67.03	16.11		150.0	
		Z	4.44	66.91	16.09		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.55	66.96	16.17	0.00	150.0	± 9.6 %
		Υ	4.45	67.16	16.21		150.0	
		Z	4.50	67.02	16.19		150.0	

10500	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	4,43	66.81	16.00	0.00	150.0	± 9.6 %
10523- AAB	Mbps, 99pc duty cycle)					0.00		± 0.0 /a
		Y	4.35	67.05	16.07		150.0	
		Z	4.38	66.88	16.02		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	Х	4.50	66,89	16.14	0.00	150.0	± 9.6 %
		Υ	4.39	67.08	16.18		150.0	
		Z	4.44	66.94	16.15		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	Х	4.47	65.92	15.72	0.00	150.0	± 9.6 %
		Y	4.40	66.15	15.78		150.0	
		Z	4.43	65.98	15.74		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.65	66.29	15.87	0.00	150.0	± 9.6 %
		Υ	4.55	66.47	15.91		150.0	
· · · · · · · · · · · · · · · · · · ·		Z	4.59	66.34	15.88		150.0	. 0.0.0/
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.57	66.25	15.81	0.00	150.0	± 9.6 %
		Υ	4.47	66.43	15.85		150.0	
		Z	4.52	66.29	15.82		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	Х	4.58	66.27	15.84	0.00	150.0	± 9.6 %
		Y	4.49	66.45	15.88		150.0	
		Z	4.53	66.31	15.85	~ ~ ~	150.0	1000
10529- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	Х	4.58	66.27	15.84	0.00	150.0	± 9.6 %
		Υ	4.49	66.45	15.88		150.0	
		Z	4.53	66.31	15.85		150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Х	4.58	66.38	15.85	0.00	150.0	± 9.6 %
		Υ	4.46	66.51	15.87		150.0	
		Z	4.52	66.40	15.86		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	Х	4.44	66.22	15.78	0.00	150.0	± 9.6 %
		Υ	4.33	66.36	15.80		150.0	
		Z	4.38	66.25	15.78		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.59	66.30	15.83	0.00	150.0	± 9.6 %
		Υ	4.49	66.51	15.88		150.0	ļ
		Z	4.54	66.36	15.84		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	Х	5.13	66.43	15.94	0.00	150.0	±9.6 %
		Y	5.04	66.54	15.97		150.0	
		Z	5.08	66.45	15.95		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	5.20	66.61	16.01	0.00	150.0	± 9.6 %
		Υ	5.10	66.71	16.05	ļ	150.0	<u> </u>
		Z	5.15	66.64	16.04		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	Х	5.06	66.54	15.96	0.00	150.0	± 9.6 %
		Y	4.98	66.67	16.01		150.0	
		Z	5.01	66.57	15.98		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.12	66.52	15.95	0.00	150.0	± 9.6 %
		Y	5.03	66.63	15.99		150.0	
10538-	IEEE 802.11ac WiFi (40MHz, MCS4,	Z X	5.07 5.22	66.54 66.56	15.97 16.02	0.00	150.0 150.0	± 9.6 %
AAB	99pc duty cycle)			00.04	40.04	-	150.0	-
		Y	5.11	66.64	16.04		150.0	
10515		Z	5.16	66.56	16.02	0.00	150.0	1069
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.14	66.57	16.03	0.00	150.0	± 9.6 %
		Υ	5.04	66.62	16.05		150.0	
		Z	5.10	66.60	16.05		150.0	

10541-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5,11	66.43	15.96	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)					0.00		1 3.0 /6
		Y	5.02	66.51	15.98		150.0	
10542-	IEEE 802.11ac WiFi (40MHz, MCS8,		5.07	66.45	15.97		150.0	
AAB	99pc duty cycle)		5.27	66.51	16.02	0.00	150.0	± 9.6 %
		Y	5.18	66.61	16.04		150.0	
10543-	IEEE 900 44 to MIEE 440MH - MOOO	Z	5.22	66.53	16.03		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.36	66.57	16.06	0.00	150.0	± 9.6 %
		Y	5.24	66.63	16.08		150.0	
10544-	IEEE 000 44 MIE: (DOME) MOOO	Z	5.30	66.57	16.07		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.43	66.55	15.94	0.00	150.0	± 9.6 %
		Υ	5.37	66.65	15.97		150.0	
10545-	IFFE DOD 44 - MIST (DODAL)	Z	5.40	66.56	15.95		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	Х	5.64	67.00	16.11	0.00	150.0	±9.6%
		Y	5.55	67.08	16.15		150.0	
10510	IEEE 000 44 INVENTOR INVENTOR	Z	5.60	67.02	16.13		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.50	66.78	16.02	0.00	150.0	± 9.6 %
		Y	5.41	66.80	16.02		150.0	
10517	IFFE 000 44 - MITTI (000 TO TOTAL)	Z	5.46	66.76	16.01		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	Х	5.58	66.83	16.03	0.00	150.0	±9.6 %
		Y	5.49	66.87	16.05		150.0	
40540	1===	Z	5.53	66.81	16.03		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.89	67.94	16.56	0.00	150.0	± 9.6 %
		Υ	5.69	67.68	16.43		150.0	
		Z	5.80	67.83	16.51		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.53	66.79	16.03	0.00	150.0	± 9.6 %
		Υ	5.46	66.91	16.08		150.0	
		Z	5.49	66,81	16.05		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.53	66.82	16.01	0.00	150.0	± 9.6 %
····		Υ	5.44	66,85	16.02		150.0	
		Z	5.49	66.83	16.02		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Х	5.44	66.61	15.91	0.00	150.0	± 9.6 %
		Υ	5.38	66.72	15.95	***************************************	150.0	
		Z	5.40	66.62	15.92		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.53	66.66	15.96	0.00	150.0	± 9.6 %
		Y	5.45	66.72	15.99		150.0	
		Z	5.48	66.65	15.97		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.84	66.93	16.04	0.00	150.0	± 9.6 %
***		Υ	5.78	67.01	16.06		150.0	
		Z	5.81	66.94	16.05		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.98	67.25	16.17	0.00	150.0	± 9.6 %
		Y	5.90	67.29	16.19		150.0	
40		Z	5.94	67.25	16.18		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.00	67.29	16.19	0.00	150.0	± 9.6 %
		Υ	5.93	67.35	16.21		150.0	
		Z	5.96	67.30	16.20		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.96	67.20	16.16	0.00	150.0	±9.6 %
		Υ	5.88	67.23	16.17		150.0	
		Z	5.92	67.18	16.16		150,0	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	Х	6.01	67.37	16.26	0.00	150.0	± 9.6 %
		Y	5.92	67.38	16.26		150.0	
		Z	5.97	67.35	16.26	<u> </u>	150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.01	67.21	16.22	0.00	150.0	± 9.6 %
·		Y	5.92	67.24	16.23		150.0	
		Z	5.96	67.19	16.22		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	5.93	67.18	16.25	0.00	150.0	± 9.6 %
		Y	5.85	67.23	16.26		150.0	
		Z	5.89	67.18	16.25		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.07	67.61	16.46	0.00	150.0	± 9.6 %
		Υ	5.94	67.50	16.40		150.0	
		Z	6.01	67.54	16.43		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	6.39	68.16	16.69	0.00	150.0	± 9.6 %
		Υ	6.02	67.41	16.31		150.0	
		Z	6.19	67.71	16.48		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	Х	4.86	66.83	16.26	0.46	150.0	±9.6%
-		Υ	4.78	67.03	16.31		150.0	
		Ζ	4.81	66.87	16.27		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	5.09	67.28	16.58	0.46	150.0	± 9.6 %
		Y	4.98	67.43	16.60		150.0	
		Z	5,03	67.31	16.59		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	4.93	67,13	16.40	0.46	150.0	±9.6 %
		Υ	4.82	67.27	16.42		150.0	
		Z	4.87	67.15	16.40		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	4.95	67.50	16.74	0.46	150.0	± 9.6 %
		Y	4.84	67.61	16.74		150.0	
		Z	4.90	67.52	16.74		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.85	66.93	16.19	0.46	150.0	± 9.6 %
		Y	4.74	67.12	16.24		150.0	
		Z	4.79	66.97	16.19		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	4.91	67.57	16.79	0.46	150.0	± 9.6 %
		Y	4.82	67.76	16.84		150.0	
		Z	4.86	67.64	16.82		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	4.94	67.43	16.73	0.46	150.0	± 9.6 %
		Υ	4.84	67.60	16.77		150.0	ļ <u> </u>
		Z	4.89	67.48	16.75		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.25	65.19	15.53	0.46	130.0	± 9.6 %
		Υ	1.27	65.45	15.71		130.0	
		Z	1.24	65.29	15.60		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	1.27	65.79	15.87	0.46	130.0	± 9.6 %
		Υ	1.28	66.03	16.05		130.0	
		Z	1.26	65.90	15.96		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Х	2.61	85.52	21.81	0,46	130.0	± 9.6 %
		Y	2.97	88.51	23.34		130.0	
		Z	3.01	88.05	22.71		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.44	71.64	18.59	0.46	130.0	± 9.6 %
		Y	1.44	71.68	18.74		130.0	T
		Z	1.45	72.00	18.80		130.0	

10575- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.68	66.71	16.37	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)	 	4.50					
		Y	4.59 4.63	66.91 66.76	16.41		130.0	1
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.70	66.86	16.38 16.43	0.46	130.0 130.0	± 9.6 %
AAA	OFDM, 9 Mbps, 90pc duty cycle)				10.70	0.40	100.0	1 3.0 %
		Y	4.61	67.07	16.47		130.0	
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.65	66.92	16,44		130.0	
AAA	OFDM, 12 Mbps, 90pc duty cycle)		4.91	67.16	16.60	0.46	130.0	± 9.6 %
		Y	4.79 4.85	67.31	16.62		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.81	67.20 67.32	16.60 16.69	0.46	130.0 130.0	± 9.6 %
		Y	4.69	67.44	16.70		130.0	
40570		Z	4.75	67.35	16.70		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.58	66.65	16.03	0.46	130.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Y	4.47	66.80	16.06		130.0	
10580-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.52	66.66	16.02		130.0	
AAA	OFDM, 36 Mbps, 90pc duty cycle)		4.63	66.68	16.05	0.46	130.0	± 9.6 %
		Y Z	4.52 4.57	66.87	16.11		130.0	
10581-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.71	67.36	16.05 16.64	0.46	130.0 130.0	+069/
AAA	OFDM, 48 Mbps, 90pc duty cycle)					0.40	130.0	± 9.6 %
		Y	4.60	67.52	16.66		130,0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.65 4.53	67.41 66.42	16.65 15.83	0.46	130.0 130.0	± 9.6 %
	ST SWI, OF MISPS, COPE daily cycle)	Y	4.41	66.60	15.88		130.0	
		Z	4.46	66.43	15.82		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Х	4.68	66.71	16.37	0.46	130.0	± 9.6 %
		Υ	4.59	66.91	16.41		130.0	
10584-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9	Z	4.63	66.76	16.38		130.0	
AAB	Mbps, 90pc duty cycle)	X	4.70	66.86	16.43	0.46	130.0	± 9.6 %
		Y	4.61	67.07	16.47		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	Z	4.65 4.91	66.92 67.16	16.44 16.60	0.46	130.0 130.0	± 9.6 %
		Y	4.79	67.31	16,62		130.0	
		Z	4.85	67.20	16.60		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	Х	4.81	67.32	16.69	0.46	130.0	± 9.6 %
		Υ	4.69	67.44	16.70		130.0	
10587-	IEEE 902 44 of Wift E CUL (OFDM 24	Z	4.75	67.35	16.70		130.0	
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.58	66.65	16.03	0.46	130.0	± 9.6 %
		Y	4.47 4.52	66.80	16.06		130.0	
10588-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36	X	4.63	66.66 66.68	16.02 16.05	0.46	130.0 130.0	± 9.6 %
AAB	Mbps, 90pc duty cycle)	Y	4.52	66.87	16.11	V.TU		2 3.0 /6
		Z	4.57	66.71	16.11		130.0 130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.71	67.36	16.64	0.46	130.0	± 9.6 %
		Υ	4.60	67.52	16.66		130.0	
10500		Z	4.65	67.41	16.65		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.53	66.42	15.83	0.46	130.0	± 9.6 %
		Y	4.41	66,60	15.88		130.0	
		Z	4.46	66.43	15.82		130.0	

10591-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.83	66.77	16.47	0.46	130.0	± 9.6 %
AAB	MCS0, 90pc duty cycle)			60.00	16.50		130.0	
		Y	4.74	66.96	16.48		130.0	
		Z	4.78	66.82	16.60	0.46	130.0	± 9.6 %
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.98	67.10		0.40		2 3.0 70
		Y	4.87	67.27	16.63		130.0	
		Z	4.93	67.14	16.61		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.91	67.02	16.48	0.46	130.0	± 9.6 %
		Y	4.80	67.17	16.51		130.0	
		Z	4.85	67.05	16.49		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.96	67,18	16.63	0.46	130.0	± 9.6 %
		Y	4.85	67.33	16.66		130.0	
		Z	4.90	67.22	16.64		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.93	67.14	16.53	0.46	130.0	± 9.6 %
		Y	4.82	67.31	16.57		130.0	
		Ż	4.87	67.18	16.54		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.87	67.14	16.54	0.46	130.0	± 9.6 %
7010	Mood, cope daty cycley	Y	4.76	67.30	16.57		130.0	
		Z	4.81	67.18	16.54		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	Х	4.82	67.05	16.42	0.46	130.0	± 9.6 %
7010	Mood, copo daty cyclor	Y	4.71	67.19	16.44		130.0	
		Z	4.76	67.07	16.42		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.80	67.28	16.68	0.46	130.0	± 9.6 %
AAD	WC37, 90pc daty cyclej	Y	4.69	67.37	16.67		130.0	
		Z	4.74	67.29	16.67		130.0	
10599-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.50	67.33	16.69	0.46	130.0	± 9.6 %
AAB	MCS0, 90pc duty cycle)	Y	5.40	67.43	16.72		130.0	
		$\frac{1}{Z}$	5.46	67.38	16.72		130.0	
10600-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.67	67.87	16.93	0.46	130.0	±9.6%
AAB	MCS1, 90pc duty cycle)	$\neg \uparrow_{Y}$	5.53	67.86	16.92		130.0	
		$\frac{1}{Z}$	5.61	67.87	16.94		130.0	
10601-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.54	67.56	16.79	0.46	130.0	± 9.6 %
AAB	MCS2, 90pc duty cycle)	Y	5.42	67.61	16.80		130.0	
		Z	5.48	67.56	16.80		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.63	67.58	16.72	0.46	130.0	± 9.6 %
770	WOOO, Sope duty byole)	Y	5.55	67.79	16.82		130.0	
		Z	5.59	67.64	16.76		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.71	67.86	16.99	0.46	130.0	± 9.6 %
VVD	wico-r, cope duty cycle)	Y	5.61	68.00	17.05		130.0	
			5.65	67.89	17.01		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.50	67.29	16.70	0.46	130.0	± 9.6 %
,010		Y	5.49	67.68	16.88		130.0	
		Z	5.47	67.39	16.75		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.63	67.69	16.90	0.46	130.0	± 9.6 %
	1	Y	5.53	67.80	16.94		130.0	
		Z	5.59	67.74	16.92		130.0	
10606-	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.39	67.07	16.45	0.46	130.0	± 9.6 %
Ι ΔΔΗ	I INICIOTA GODO GULLA CACIOL				1	1		
AAB	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Υ	5.27	67.10	16.45		130.0	

AAB			4.65	66.04	16.07	0.46	130.0	± 9.6 %
	90pc duty cycle)	Y	4.58	66.26	40.40		1000	
		Z	4.61	66.10	16.12 16.08		130.0 130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.85	66.45	16.23	0.46	130.0	± 9.6 %
		Y	4.74	66.63	16.28		130.0	
		Z	4.79	66.50	16.25		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	Х	4.74	66.30	16.07	0.46	130.0	± 9.6 %
		Y	4.63	66.48	16.11		130.0	
10610-	IEEE 000 44 - WEEE (000 H) MOOO	Z	4.68	66.35	16.08		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.79	66.46	16.23	0.46	130.0	± 9.6 %
****		Y	4.68	66.63	16.27		130.0	
10611-	IEEE 902 44 oo M//E: /2004 II- 1400 4	Z	4.73	66.50	16.25		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.70	66.28	16.09	0.46	130.0	± 9.6 %
		Y	4.60	66.45	16.12		130.0	
10612-	IEEE 802.11ac WiFi (20MHz, MCS5,	Z	4.65	66.31	16.10		130.0	
AAB	90pc duty cycle)	X	4.72	66.43	16.13	0.46	130.0	± 9.6 %
		Y	4.60	66.61	16.18		130.0	
10613-	IEEE 802.11ac WiFi (20MHz, MCS6,	Z	4.66	66.47	16.14		130.0	
AAB	90pc duty cycle)	Х	4.72	66.33	16.02	0.46	130.0	± 9.6 %
		Y	4.60	66.47	16.05		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	Z X	4.66 4.66	66.35 66.50	16.02 16.24	0.46	130.0 130.0	± 9.6 %
7010	cope daty cycle)	Y	4.55	66.60	40.05		400.0	
		Z	4.60	66.62 66.53	16.25 16.25		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.71	66.12	15.87	0.46	130.0 130.0	± 9.6 %
	- sope day system	Y	4.60	66.33	15.93		130.0	
		Ż	4.65	66.16	15.88		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.31	66.56	16.28	0.46	130.0	± 9.6 %
		Y	5.21	66.65	16.31		130.0	
		Z	5.26	66.57	16.29		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.38	66.74	16.35	0.46	130.0	± 9.6 %
		Y	5.29	66.86	16.39		130.0	
		Z	5.34	66.79	16.37		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.2 6	66.74	16.36	0.46	130.0	± 9.6 %
		Y	5.18	66.87	16.40		130.0	
40040	IEEE 000 44	Z	5.22	66.77	16.38		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.29	66.59	16.22	0.46	130.0	± 9.6 %
		Y	5.19	66.67	16.25		130.0	
40000	IEEE 000 44- 1975 (4019)	Z	5.23	66.58	16.22		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	Х	5.38	66.62	16.29	0.46	130.0	± 9.6 %
		Y	5.27	66.70	16.31		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	Z	5.32 5.37	66.62 66.71	16.29 16.45	0.46	130.0 130.0	± 9.6 %
WD	Jope duty cycle)	Υ	5.27	66.00	10.47		400.0	
w		Z	5.32	66.80 66.74	16.47 16.47		130.0 130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5,39	66.89	16.53	0.46	130.0	± 9.6 %
	1 000 444, 0,00	Y	5.29	66.97	16.55		130.0	
							. 1.307.17	

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10623-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5.26	66.41	16.17	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	^	0.20	00.41	10.11	0.40	100.0	20.070
		Y	5.16	66.51	16.20		130.0	
		Z	5.21	66.44	16.19		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	Х	5.45	66.63	16.34	0.46	130.0	± 9.6 %
		Υ	5.35	66.71	16.36		130.0	
······································		Z	5.40	66.64	16.35		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	5.87	67.75	16.95	0.46	130.0	± 9.6 %
		Υ	5.59	67.32	16.72		130.0	
***************************************		Z	5.77	67.62	16.89	- 1-	130.0	- 0 0 0/
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	Х	5,59	66.61	16.24	0.46	130.0	± 9.6 %
		Y	5.53	66.71	16.27		130.0	
		Z	5.56	66.63	16.25	0.40	130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	Х	5.86	67.23	16.51	0.46	130.0	± 9.6 %
		Y	5.77	67.31	16.54		130.0	·
		Z	5.82	67.26	16.53		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.64	66.75	16.20	0.46	130.0	± 9.6 %
		Υ	5.54	66.76	16.20		130.0	
		Z	5.59	66.73	16.20	0.42	130.0	1000
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	Х	5.74	66.86	16.25	0.46	130.0	± 9.6 %
		Y	5.63	66.85	16.25		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4,	X	5.67 6.27	66.78 68.62	16.22 17.13	0.46	130.0 130.0	± 9.6 %
AAD	90pc duty cycle)	Y	5.98	68.12	16.89		130.0	
		Z	6.16	68.44	17.05		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.08	68.18	17.10	0.46	130.0	±9.6 %
71710	Sopo daty cyclo)	Y	5.89	67.92	16.96		130.0	
		Ż	6.00	68.07	17.05		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5,81	67.25	16.65	0.46	130.0	± 9.6 %
		Υ	5.73	67.36	16.70		130.0	
		Z	5.78	67.29	16.68		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.70	66.88	16.30	0.46	130.0	± 9.6 %
		Υ	5.61	66.94	16.32		130.0	
		Z	5.64	66.86	16.29		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Х	5.68	66.90	16.36	0.46	130.0	± 9.6 %
		Υ	5.59	66.94	16.37		130.0	
		Z	5.63	66.89	16.36		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.57	66.28	15.80	0.46	130.0	± 9.6 %
		Y	5.47	66.33	15.83		130.0	
		Z	5.52	66.25	15.79		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	Х	6.01	67.00	16.34	0.46	130.0	± 9.6 %
		Y	5.95	67.08	16.37	ļ	130.0	
		Z	5.98	67.00	16.35		130.0	1.5.5.5.
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Х	6.18	67.41	16.53	0.46	130.0	± 9.6 %
		Y	6.10	67.45	16.54		130.0	<u> </u>
		Z	6.14	67.41	16.54	<u> </u>	130.0	1.000
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	×	6.18	67.38	16.49	0.46	130.0	± 9.6 %
		Y	6.10	67.42	16.51		130.0	
		Z	6.14	67.38	16.50		130.0	

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.15	67.32	16.51	0.46	130.0	± 9.6 %
AAO	aope daty cycle)	Y	6.07	67.34	16.50	ļ	120.0	
		Ż	6.11	67.30	16.50		130.0 130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.17	67.36	16.47	0.46	130.0	± 9.6 %
		Υ	6.07	67.36	16.47		130.0	
		Z	6.11	67.32	16.45		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	6.20	67.22	16.42	0.46	130.0	± 9.6 %
		Y	6.14	67.34	16.48		130.0	
10642-	IEEE 902 44 co WEE (400MH- MOOO	Z	6.17	67.26	16.44		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.24	67.47	16.71	0.46	130.0	± 9.6 %
		Y	6.15	67.50	16.71		130.0	
10643-	IEEE 802.11ac WiFi (160MHz, MCS7,	Z	6.19	67.46	16.71		130.0	
AAC	90pc duty cycle)	X	6.08	67.18	16.46	0.46	130.0	± 9.6 %
		Y	6.01	67.25	16.50		130.0	
10644-	IEEE 802.11ac WiFi (160MHz, MCS8,	Z	6.04	67.18	16.47		130.0	
AAC AAC	90pc duty cycle)	X	6.27	67.76	16.77	0.46	130.0	± 9.6 %
		Y	6.11	67.57	16.67		130.0	
10645-	IEEE 802.11ac WiFi (160MHz, MCS9,	Z	6.19	67.64	16.72		130.0	
AAC	90pc duty cycle)	X	6.75	68.75	17.22	0.46	130.0	± 9.6 %
		Y	6.24	67.62	16.66		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Z X	6.47 46.96	68.11 124.69	16.92 40.77	9.30	130.0 60.0	± 9.6 %
	GI ON, OE SUBMUNC-2,17)	Y	100.00	148.37	48.20		60.0	
		Z	67.01	134.85	43.85		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	46.42	125.36	41.11	9.30	60.0	± 9.6 %
	•	Y	100.00	149.72	48.78		60.0	
		Z	63.71	134.73	44.00		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.63	62.54	9.79	0.00	150.0	± 9.6 %
***************************************		Υ	0.58	62.24	9.19		150.0	
		Z	0.59	62.30	9.35		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	4.19	68.34	17.06	2.23	80.0	± 9.6 %
		Υ	4.08	68.62	17.03		80.0	
		Z	4.14	68.48	17.06		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.68	67.61	17.18	2.23	80.0	± 9.6 %
		Υ	4.56	67.77	17.19		80.0	
10654-	THE TOD (OCDAA) ACARL C TAAC	Z	4.62	67.66	17.19		80,0	
AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.63	67.27	17.19	2.23	80.0	± 9.6 %
		Y	4.54	67.39	17.21		80.0	
10655-	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1,	Z X	4.58	67.31	17.20	0.00	80.0	1000
AAB	Clipping 44%)		4.69	67.27	17.23	2.23	80.0	± 9.6 %
		Y	4.60	67.35	17.25		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	X	4.64 19.17	67.28 92.59	17.23 24.24	10.00	80.0 50.0	± 9.6 %
		Y	41.94	104.68	27.26		50.0	
		Z	24.50	96.17	24.98		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	X	100.00	114.36	28.32	6.99	60.0	± 9.6 %
***************************************		Υ	100.00	114.20	27.89		60.0	
					21.00		00.0	

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10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	111.43	25.50	3.98	80.0	± 9.6 %
		Y	100.00	112.46	25.73		80.0	
· · · · · · · · · · · · · · · · · · ·		Z	100.00	110.79	25.07		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	X	100.00	110.47	23.74	2.22	100.0	± 9.6 %
		Y	100.00	113.22	24.78		100.0	
**********		Z	100.00	109.90	23.38		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	Х	100.00	107.83	20.92	0.97	120.0	± 9.6 %
		Y	100.00	115.39	23.98		120.0	
		Z	100.00	107.00	20.48		120.0	

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

Calibration Laboratory of

Schmid & Partner
Engineering AG
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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

PC Test

Certificate No: ES3-3319_Mar18

CALIBRATION CERTIFICATE

Object

ES3DV3 - SN:3319

Calibration procedure(s)

QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes

BN 03/30/2018

Calibration date:

March 13, 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-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
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

Calibrated by:

Name
Function
Signature

Laboratory Technician

Approved by:

Katja Pokovic
Technical Manager

Issued: March 15, 2018

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

Calibration Laboratory of

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





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Accreditation No.: SCS 0108

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Glossary:

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

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

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

Polarization 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 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
 NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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Probe ES3DV3

SN:3319

Manufactured: Calibrated:

January 10, 2012 March 13, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

March 13, 2018 ES3DV3-- SN:3319

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3319

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	1.08	1.05	1.12	± 10.1 %
DCP (mV) ^B	104.0	103.0	104.0	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	dB dB	VR mV	Unc [≒] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	197.9	±3.8 %
		Υ	0.0	0.0	1.0		198.2	
		Z	0.0	0.0	1.0		200.6	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1	C2	α	T1	T2	Т3	T4	T 5	T6
	fF	fF	V ⁻¹	ms.V⁻²	ms.V ^{~1}	ms	V-2	V ⁻¹	
X	60.52	430.8	35.08	29.64	3.011	5.10	0.615	0.538	1.010
Υ	55.79	400.8	35.48	29.01	2.492	5.10	0.600	0.518	1.009
Z	63.98	455.3	34.93	29.72	3.442	5.10	0.679	0.571	1.011

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

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

Numerical linearization parameter: uncertainty not required.

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

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3319

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	6.70	6.70	6.70	0.80	1.21	± 12.0 %
835	41.5	0.90	6.44	6.44	6.44	0.80	1.17	± 12.0 %
1750	40.1	1.37	5.49	5.49	5.49	0.65	1.43	± 12.0 %
1900	40.0	1.40	5.29	5.29	5.29	0.76	1.30	± 12.0 %
2300	39.5	1.67	5.06	5.06	5.06	0.72	1.29	± 12.0 %
2450	39.2	1.80	4.71	4,71	4.71	0.77	1.30	± 12.0 %
2600	39.0	1.96	4.55	4.55	4.55	0.80	1.31	± 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. 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 CopyE uncertainty for indicated target fissue parameters.

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 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: ES3DV3 - SN:3319

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	6.32	6.32	6.32	0.65	1.26	± 12.0 %
835	55.2	0,97	6.20	6.20	6.20	0.80	1.14	± 12.0 %
1750	53.4	1.49	5.05	5.05	5.05	0.76	1.27	± 12.0 %
1900	53.3	1.52	4.84	4.84	4.84	0.55	1.56	± 12.0 %
2300	52.9	1.81	4.63	4.63	4.63	0.80	1.30	± 12.0 %
2450	52.7	1.95	4.51	4.51	4.51	0.80	1.25	± 12.0 %
2600	52.5	2.16	4.33	4.33	4.33	0.80	1.20	± 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. Above 5 GHz frequency validity can be extended to ± 110 MHz.

validity can be extended to ± 110 MHz.

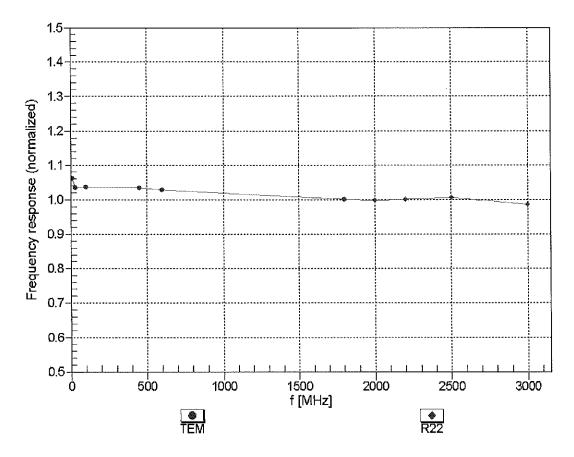
F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty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

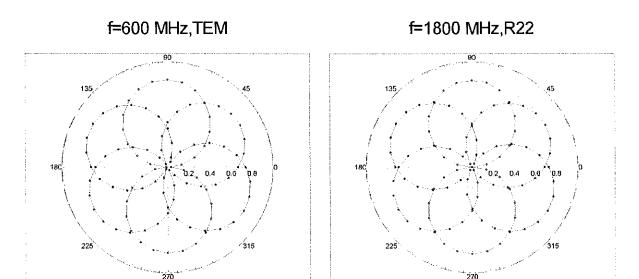
March 13, 2018 ES3DV3-SN:3319

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

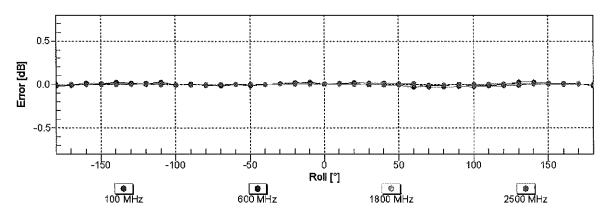


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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



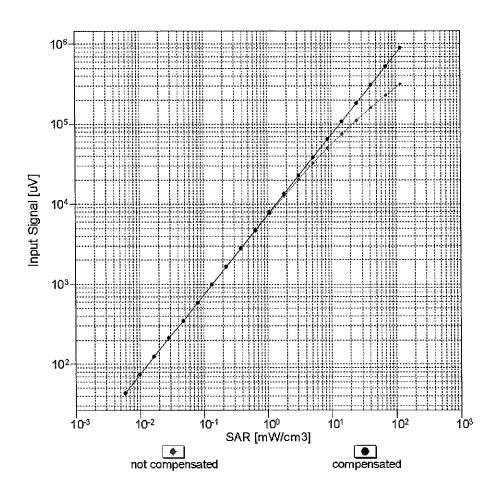
Tot

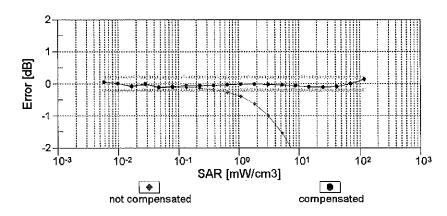


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Tot

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

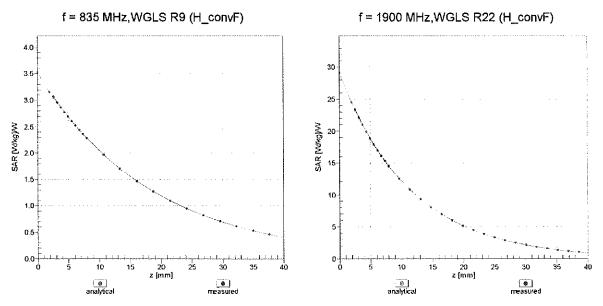




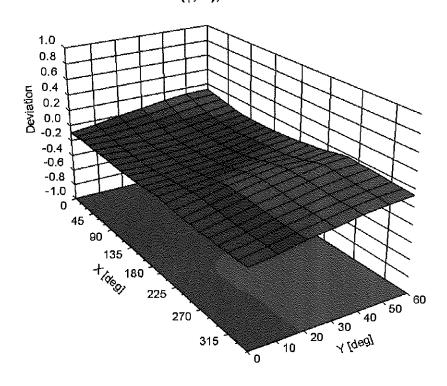
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

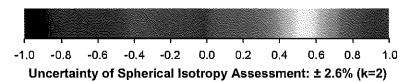


Conversion Factor Assessment



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





DASY/EASY - Parameters of Probe: ES3DV3 - SN:3319

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	60.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

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Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	197.9	± 3.8 %
		Υ	0.00	0.00	1.00	0.00	198.2	
		Z	0.00	0.00	1.00		200.6	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	9.56	81.28	19.98	10.00	25.0	±9.6 %
***************************************	- Harbara - Harb	Y	8.09	78.70	18.35		25.0	
		Z	8.70	79.52	19.57		25.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	1.34	72.37	18.08	0.00	150.0	± 9.6 %
		Υ	0.99	67.12	14.82		150.0	
40040		Z	1.12	68.87	16.00		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	×	1.37	66.58	17.00	0.41	150.0	± 9.6 %
		Y	1.25	64.92	15.59		150.0	
10013-	IEEE 902 44 - WIELD 4 CH - (DOOS	Z	1.32	65.58	16.11		150.0	
CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.18	67.48	17.64	1.46	150.0	± 9.6 %
		Y	5.08	67.20	17.36		150.0	
10021-	GSM-FDD (TDMA, GMSK)	Z	5.20	67.32	17.47		150.0	
DAC	GSW-FDD (TDWA, GWSK)	X	20.40	95.52	26.57	9.39	50.0	± 9.6 %
- Without -		Y	29.46	101.11	27.60		50.0	
10023-	GPRS-FDD (TDMA, GMSK, TN 0)	Z X	14.66	89.52	24.83	0.53	50.0	
DAC	GFRS-FDD (TDIMA, GIMSK, TN 0)		18.37	93.61	26.02	9.57	50.0	±9.6 %
		Y	24.41	97.95	26.72		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Z X	13.84 100.00	88.39 119.56	24.49 31.31	6.56	50.0 60.0	± 9.6 %
		Y	100.00	117.39	29.93		60.0	
		Ż	47.21	108.31	28.71		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	21.09	108.48	41.18	12.57	50.0	± 9.6 %
		Υ	17.11	102.80	38.82		50.0	
		Z	18.44	103.12	38.97		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	21.59	105.09	36.25	9.56	60.0	±9.6%
······		Υ	18.95	102.20	35.03		60.0	
40007		Z	18.49	100.22	34.38		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	118,49	29.83	4.80	80.0	± 9.6 %
		<u> </u>	100.00	115.83	28.28		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	118.30 118.84	29.89 29.14	3.55	80.0 100.0	± 9.6 %
57.0		Y	100.00	115.36	27.25		100.0	
		Z	100.00	118.10	28.92		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	15.08	97.16	32.49	7.80	80.0	± 9.6 %
		Y	12.90	93.80	31.06	1	80.0	
		Ż	13.60	93.82	31.09		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Х	100.00	118.11	30.01	5.30	70.0	± 9.6 %
		Υ	100.00	115.58	28.50		70.0	
		Z	100.00	118.16	30.20		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Х	100.00	121.01	28.44	1.88	100.0	± 9.6 %
		Υ	100.00	114.03	25.11		100.0	
		Z	100.00	118.73	27.54		100.0	

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	127.26	29.88	1.17	100.0	± 9.6 %
······································		Υ	100.00	114.89	24.38		100.0	
		Z	100.00	122.11	27.79		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	21.21	99.84	27.91	5.30	70.0	± 9.6 %
		Υ	19.09	97.43	26.61		70.0	
		Ζ	13.98	92.26	25.56		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	14.93	98.23	25.94	1.88	100.0	± 9.6 %
		Υ	7.46	86.71	21.62		100.0	
		Z	7.45	87.10	22.42		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	7.98	90.77	23.49	1.17	100.0	± 9.6 %
		Y	3.97	79.58	18.90		100.0	
10000	/=== 000 // = = = 0 // = = = 0 // = = = 0 // = = = 0 // = = = 0 // = = = 0 // = = = 0 // = = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = = 0 // = 0 // = 0 // = = 0 // = 0 // = 0 // = = 0 // = 0 // = = 0 // = 0 // = = 0 //	Z	4.48	81.52	20.27		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	26,12	103.52	29.04	5.30	70.0	± 9.6 %
		Υ	24.16	101.42	27.84	···	70.0	
40027	IEEE 900 45 4 Division 45 40 DDOK DUO	Z	15.99	94.67	26.38	4.00	70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	14.25	97.55	25.70	1.88	100.0	± 9.6 %
		Y	7.04	85.92	21.32	····	100.0	
10038-	IEEE 000 45 4 Divisto de 40 DDOM DUE	Z	7.24	86.72	22.25	4 4 7	100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	8.53	92.07	23.99	1.17	100.0	± 9.6 %
		Y	4.13	80.37	19.27		100.0	
40000	ODMACCOC (A. DTT. DOA)	Z	4.65	82.31	20.62		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	Х	2.96	79.09	19.43	0.00	150.0	± 9.6 %
		Y	1.75	71.10	15.36		150.0	
40040	IO EL /IO /OO EDD /TDI// JEDI/	Z	2.10	73.23	16.92		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	Х	53.77	109.05	28.70	7.78	50.0	± 9.6 %
		Υ	79.10	112.95	28.86		50.0	
10011	10.04514.514.514	Z	23.46	96.42	25.41		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.00	123.18	1.26	0.00	150.0	± 9.6 %
		Υ	0.02	127.84	0.07		150.0	
		Z	0.00	110.77	4.52		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	11.41	83.11	24.20	13.80	25.0	± 9.6 %
		Υ	12.66	85.48	24.49		25.0	
		Z	10.45	80.79	23.56		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	13.41	87.55	24.40	10.79	40.0	± 9.6 %
		Υ	15.25	89.77	24.55		40.0	
						ı	40.0	
		Z	11.61	84.53	23.55			
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	13.37	87.98	25.03	9.03	50.0	± 9.6 %
	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	13.37 13.72	87.98 88.51	25.03 24.74	9.03	50.0 50.0	±9.6 %
CAA		X Y Z	13.37 13.72 11.72	87.98 88.51 85.02	25.03 24.74 24.05		50.0 50.0 50.0	
	UMTS-TDD (TD-SCDMA, 1.28 Mcps) EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X Y Z X	13.37 13.72 11.72 11.14	87.98 88.51 85.02 91.28	25.03 24.74 24.05 29.72	9.03	50.0 50.0 50.0 100.0	± 9.6 %
10058-		Y Z X	13.37 13.72 11.72 11.14 9.52	87.98 88.51 85.02 91.28 87.98	25.03 24.74 24.05 29.72 28.26		50.0 50.0 50.0 100.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	X Y Z X	13.37 13.72 11.72 11.14	87.98 88.51 85.02 91.28	25.03 24.74 24.05 29.72		50.0 50.0 50.0 100.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X Y Z X Y Z X	13.37 13.72 11.72 11.14 9.52 10.41 1.60	87.98 88.51 85.02 91.28 87.98 88.91 69.38	25.03 24.74 24.05 29.72 28.26 28.62 18.31	6.55	50.0 50.0 50.0 100.0 100.0 100.0 110.0	± 9.6 %
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	X Y Z X Y Z X	13.37 13.72 11.72 11.14 9.52 10.41 1.60 1.43	87.98 88.51 85.02 91.28 87.98 88.91 69.38 67.15	25.03 24.74 24.05 29.72 28.26 28.62 18.31 16.67	6.55	50.0 50.0 50.0 100.0 100.0 110.0 110.0	± 9.6 %
10058- DAC 10059- CAB	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	X Y Z X Y Z X	13.37 13.72 11.72 11.14 9.52 10.41 1.60	87.98 88.51 85.02 91.28 87.98 88.91 69.38	25.03 24.74 24.05 29.72 28.26 28.62 18.31	6.55	50.0 50.0 50.0 100.0 100.0 100.0 110.0	± 9.6 %
10058- DAC 10059- CAB	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X Y Z X Y Z X	13.37 13.72 11.72 11.14 9.52 10.41 1.60 1.43 1.53	87.98 88.51 85.02 91.28 87.98 88.91 69.38 67.15 67.97	25.03 24.74 24.05 29.72 28.26 28.62 18.31 16.67 17.25	6.55 0.61	50.0 50.0 50.0 100.0 100.0 110.0 110.0 110.0	± 9.6 %

Y 11.26 97.49 27.04 110.0 110.0 10062 EEE 802.11ah WiFi 6 GHz (OFDM, 6 X 4.90 67.24 16.94 0.49 100.0 ± 9.6 % 100.0 10063 EEE 802.11ah WiFi 6 GHz (OFDM, 9 X 4.90 67.24 16.94 0.49 100.0 10063 10063 EEE 802.11ah WiFi 6 GHz (OFDM, 9 X 4.95 67.42 17.09 0.72 100.0 ± 9.6 % 10064	10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	Х	24.68	111.64	31.63	2.04	110.0	± 9.6 %
Tell			V	11 26	97.40	27.04		1100	
10062-									
CAC	10062-	IEEE 802 11a/h WiEi 5 GHz (OEDM 6					0.40		106%
CAC							0.49		E9.0 %
10083									
CAC Mbps Y 4.84 67.10 16.77 100.0	10062	IEEE 800 44 - /- MIEE E OU L (OEDM O				······································			
DIOSH- LEEE 802.11a/h WiFi 5 GHz (OFDM, 12 X 5.28 67.75 17.35 0.86 100.0 ± 9.6 %							0.72		± 9.6 %
10064- IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 X 5.28 67.75 17.35 0.86 100.0 ± 9.6 %									
CAC Mbps Y S.16 67.43 17.04 100.0	40004	IFFE COO (1 P. NAME) - CO. (1							
TOOSS-CAC Mbps Too Too	+ +	, , ,					0.86		± 9.6 %
10066- IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 X 5.19									
CAC Mbps									
10068-							1.21	100.0	± 9.6 %
10066- IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 X 5.25 67.95 17.76 1.46 100.0 ± 9.6 %				5.07	67.47	17.22		100.0	
10066- IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 X 5.25 67.95 17.76 1.46 100.0 ± 9.6 %				5.21	67.65				
TO067-			X	5.25			1.46		± 9.6 %
TO067-				5.12	67.61	17.44		100.0	
10067- IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 X 5.57 68.10 18.21 2.04 100.0 ± 9.6 %									
Tools			Х	5.57	68.10		2.04	100.0	± 9.6 %
Tools			Y	5.44	67.80	17.92		100.0	
10068- IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 X 5.73 68.50 18.60 2.55 100.0 ± 9.6 % Mbps			Z						
Y 5.58 68.13 18.28 100.0 1							2.55		± 9.6 %
Tell			Y	5.58	68.13	18 28		100.0	
The color of the									
Y 5.66 68.09 18.46 100.0 10071-			X				2.67		± 9.6 %
Too			5 66	68.09	18.46		100.0		
Teel Royal Tee					·				
Y 5.22 67.44 17.75 100.0			X				1.99		± 9.6 %
Table Tabl		(2000)	V	5 22	67.44	17 75	<u> </u>	100.0	
10072-									
Y 5.29 68.00 18.07 100.0				***************************************			2.30		± 9.6 %
Tourname		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y	5.29	68.00	18.07		100.0	
Too73- Lee Society Too									
Y 5.42 68.36 18.50 100.0 10074- CAB (DSSS/OFDM, 24 Mbps) Z 5.60 68.62 18.66 100.0 Y 5.46 68.84 19.10 3.30 100.0 ±9.6 % (DSSS/OFDM, 24 Mbps) Y 5.46 68.84 19.10 3.30 100.0 ±9.6 % 10075- CAB (DSSS/OFDM, 36 Mbps) Z 5.65 68.74 18.95 100.0 10							2.83		± 9.6 %
Z 5.60 68.62 18.66 100.0		, , , , , , , , , , , , , , , , , , , ,	Υ	5.42	68.36	18.50		100.0	
10074- IEEE 802.11g WiFi 2.4 GHz									
Y 5.46 68.44 18.75 100.0 10075- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) X 5.79 69.40 19.63 3.82 90.0 ± 9.6 % Y 5.61 68.91 19.24 90.0 Z 5.85 69.35 19.51 90.0 10076- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) X 5.80 69.20 19.75 4.15 90.0 Y 5.64 68.73 19.37 90.0 Z 5.86 69.15 19.63 90.0 10077- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) X 5.84 69.30 19.86 4.30 90.0 ± 9.6 % Y 5.68 68.82 19.47 90.0							3.30		± 9.6 %
Tour	***************************************		Υ	5.46	68.44	18 75		100.0	
10075- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) X 5.79 69.40 19.63 3.82 90.0 ± 9.6 % Y 5.61 68.91 19.24 90.0 90.0 19.63 90.0 19.63 19.63 90.0 19.63 19.63 90.0 19.63 19.63 90.0 19.63							 		
Y 5.61 68.91 19.24 90.0 Z 5.85 69.35 19.51 90.0 10076- CAB (DSSS/OFDM, 48 Mbps) Y 5.64 68.73 19.37 90.0 Z 5.86 69.15 19.63 90.0 10077- CAB (DSSS/OFDM, 54 Mbps) Y 5.68 68.82 19.47 90.0							3.82		± 9.6 %
Z 5.85 69.35 19.51 90.0 10076- IEEE 802.11g WiFi 2.4 GHz X 5.80 69.20 19.75 4.15 90.0 ± 9.6 % CAB (DSSS/OFDM, 48 Mbps) Y 5.64 68.73 19.37 90.0 Z 5.86 69.15 19.63 90.0 10077- IEEE 802.11g WiFi 2.4 GHz X 5.84 69.30 19.86 4.30 90.0 ± 9.6 % CAB (DSSS/OFDM, 54 Mbps) Y 5.68 68.82 19.47 90.0			Υ	5,61	68.91	19 24		90.0	
10076- IEEE 802.11g WiFi 2.4 GHz							 		
Y 5.64 68.73 19.37 90.0 Z 5.86 69.15 19.63 90.0 10077- IEEE 802.11g WiFi 2.4 GHz X 5.84 69.30 19.86 4.30 90.0 ± 9.6 % (DSSS/OFDM, 54 Mbps) Y 5.68 68.82 19.47 90.0							4.15		± 9.6 %
Z 5.86 69.15 19.63 90.0 10077- IEEE 802.11g WiFi 2.4 GHz X 5.84 69.30 19.86 4.30 90.0 ± 9.6 % CAB (DSSS/OFDM, 54 Mbps) Y 5.68 68.82 19.47 90.0			Y	5.64	68 73	19.37	 	90.0	
10077- IEEE 802.11g WiFi 2.4 GHz X 5.84 69.30 19.86 4.30 90.0 ± 9.6 % (DSSS/OFDM, 54 Mbps) Y 5.68 68.82 19.47 90.0	***************************************								
Y 5.68 68.82 19.47 90.0							4.30		± 9.6 %
	J/ 1.D	(DOOOTOT DW, O4 Wibpa)	- V	E 60	68 83	10.47		00.0	
			Z	5.90	69.25	19.47		90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	Х	1.29	72.14	16.36	0.00	150.0	± 9.6 %
		Y	0.81	65.51	12.24		150.0	
		Ż	0.99	67.68	14.05		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	Х	2.36	64.73	9.48	4.77	80.0	± 9.6 %
		Υ	1.97	63.15	8.18		80.0	
		Z	2.45	64.78	9.67		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	119.65	31.37	6.56	60.0	± 9.6 %
		Y	100.00	117.49	29.99		60.0	
40007	LIMTO EDD (HODDA)	Z	45.52	107.81	28.61		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	2.00	69.44	16.95	0.00	150.0	± 9.6 %
	***************************************		1.78	67.32	15.42		150.0	
10098-	UMTS-FDD (HSUPA, Subtest 2)	Z	1.87	67.93	15.97	0.00	150.0	1000
CAB	OWIS-FDD (HSOPA, Subject 2)	X	1.97	69.46	16,95	0.00	150.0	± 9.6 %
			1.74	67.28	15.38		150.0	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Z	1.84 21.45	67.91	15.95	0.50	150.0	±0.60/
10099- DAC	LDGL I DD (IDIVIA, OFOK, 114 U-4)	X		104.88	36.18	9.56	60.0	± 9.6 %
		Z	18.89 18.39		34.98		60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	 	3,55	100.05 72.46	34.32 17.74	0.00	60.0 150.0	± 9.6 %
CAD	MHz, QPSK)	Ŷ	3.14	70.29	16.48	0.00		19.0%
V		Z	3.35	70.29	16.48		150.0 150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.45	68.62	16.57	0.00	150.0	± 9.6 %
UND	IVITIZ, TO-QAIVI)	Υ	3.26	67.61	15.85		150.0	
		Z	3,39	68.08	16.14		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.54	68.46	16.61	0.00	150.0	± 9.6 %
		Y	3.37	67.56	15.95		150.0	***************************************
		Z	3.49	67.97	16.20		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	8.98	78.82	21.57	3.98	65.0	± 9.6 %
		Y	8.50	78.15	21.17		65.0	
		Z	8.60	77.58	20.95		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	8.85	77.44	21.89	3.98	65,0	± 9.6 %
		Υ	8.45	76.83	21.49		65.0	
		Z	8.72	76.72	21.48		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	8.33	76.23	21.66	3.98	65.0	± 9.6 %
		Y	7.79	75.22	21.09		65.0	
40400	LITE EDD (OO ED) (A 1000' ED 10	Z	7.71	74.28	20.69		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.11	71.64	17.59	0.00	150.0	± 9.6 %
		Y	2.75	69.54	16.32		150.0	
10100	LTE EDD (90 EDMA 4000/ DD 40	Z	2.95	70.37	16.78		150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.12	68.50	16.56	0.00	150.0	± 9.6 %
		Y	2.92	67.41	15.75		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	3.06 2.56	67.87 70.84	16.07 17.38	0.00	150.0 150.0	± 9.6 %
		Y	2.24	68.61	15.94		150.0	
		Z	2.42	69.44	16.48	<u> </u>	150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.84	69.29	16.96	0.00	150.0	± 9.6 %
		Y	2.62	68.02	15.99		150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	3.23	68.35	16.55	0.00	150.0	± 9.6 %
		Υ	3.05	67.38	15.81		150.0	
		Z	3.18	67.77	16.10		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.98	69.28	17.01	0.00	150.0	± 9.6 %
		Υ	2.77	68.14	16.13		150.0	·····
		Z	2.90	68.40	16.43		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.25	67.55	16.67	0.00	150.0	± 9.6 %
		Υ	5.16	67.27	16.41		150.0	
		Ζ	5.23	67.36	16.47		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.62	67.87	16.84	0.00	150.0	± 9.6 %
		Υ	5.53	67.61	16.59		150.0	
		Z	5.61	67.68	16.64		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	5.38	67.84	16.74	0.00	150.0	± 9.6 %
		Υ	5.28	67.54	16.47		150.0	
		Z	5.37	67.64	16.53		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	5.26	67.57	16.70	0.00	150.0	± 9.6 %
		Υ	5.15	67.22	16.40		150.0	
		Z	5.24	67.39	16.51		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	Х	5.70	68.05	16.94	0.00	150.0	±9.6 %
		Υ	5.61	67.82	16.70		150.0	
		Ζ	5.67	67.81	16.71		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.36	67.79	16.73	0.00	150.0	±9.6 %
		Υ	5.26	67.48	16.45		150.0	
		Z	5.34	67.59	16.52		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.59	68.46	16.53	0.00	150.0	±9.6%
		Y	3.41	67.56	15.87		150.0	
		Z	3.54	67.97	16.13		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.70	68.46	16.65	0.00	150.0	± 9.6 %
		Υ	3.53	67.64	16.03		150.0	
		Ζ	3.65	67.99	16.26		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	2.36	71.08	17.31	0.00	150.0	±9.6%
		Υ	2.01	68.49	15.62		150.0	
		Z	2.20	69.37	16.30		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	2.76	70.34	17.00	0.00	150.0	± 9.6 %
		Υ	2.47	68.62	15.73		150.0	
		Z	2.62	69.02	16.23		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	×	2.54	68.16	15.50	0.00	150.0	±9.6%
· · · · · · · · · · · · · · · · · · ·		Υ	2.28	66.60	14.27		150.0	
		Ζ	2.46	67.23	14.93		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	1.75	69.86	15.18	0.00	150.0	± 9.6 %
		Y	1.29	65.55	12.27		150.0	
10146-	LTE-FDD (SC-FDMA, 100% RB, 1.4	Z X	1.55 4.07	67.61 76.05	14.05 17.30	0.00	150.0 150.0	± 9.6 %
CAE	MHz, 16-QAM)	,	0.50	00.00	40.00		450.0	
		Y	2.52	69.20	13.62		150.0	
10147-	LTE EDD (QC EDMA 4000/ DD 4.4	Z	3.50	73.50	16.33	0.00	150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	5.72	80.95	19.32	0.00	150.0	± 9.6 %
		Υ	3.13	72.10	15.05		150.0	
		Z	4.43	76.91	17.88		150.0	

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	3.13	68.56	16.60	0.00	150.0	± 9.6 %
		Y	2.93	67.47	15.80		150.0	
		Z	3.07	67.93	16.12		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	3.24	68.40	16.59	0.00	150.0	± 9.6 %
		Y	3.05	67.43	15.85		150.0	
		Z	3.18	67.82	16.13		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	9.59	81.21	22.61	3.98	65.0	± 9.6 %
		Υ	9.21	80.79	22.27		65.0	
		Z	9.05	79.62	21.87		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	8.53	77,77	21.82	3.98	65.0	± 9.6 %
		Υ	8.07	77,03	21.32		65.0	
		Z	8.36	76.93	21.37		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.87	78.41	22.41	3.98	65.0	± 9.6 %
		Υ	8.48	77.88	22.02		65.0	
		Z	8.68	77.54	21.94		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.63	71.34	17.67	0.00	150.0	± 9.6 %
		Y	2.29	69.04	16.21		150.0	
		Z	2.48	69.88	16.75		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	2.84	69.30	16.97	0.00	150.0	±9.6 %
		Υ	2.62	68.03	16.00		150.0	
		Z	2.75	68.36	16.34		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	2.26	71.67	17.44	0.00	150.0	± 9.6 %
		Y	1.86	68.59	15.46		150.0	
		Z	2.07	69.64	16.29		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	2.42	69.16	15.83	0.00	150.0	± 9.6 %
		Υ	2.11	67.12	14.31		150.0	
		Ζ	2.30	67.87	15.10		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	2.99	69.33	17.05	0.00	150.0	± 9.6 %
		Υ	2.78	68.20	16.17		150.0	
		Z	2.90	68.44	16.46	1	150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	2.55	69.60	16.11	0,00	150.0	± 9.6 %
		Υ	2.22	67.56	14.60		150.0	
		Z	2.41	68.28	15.37		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	3,02	70.16	17.19	0.00	150.0	± 9.6 %
		Υ	2.77	68.66	16.17		150.0	
		Z	2.91	69.14	16.50		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.13	68.32	16.54	0.00	150.0	± 9.6 %
		Υ	2.95	67.34	15.78		150.0	
		Z	3.07	67.70	16.08		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.23	68.35	16.60	0.00	150.0	± 9.6 %
		Υ	3.06	67.45	15.88		150.0	
		Z	3.18	67.74	16.14		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.02	71.10	20.08	3.01	150.0	± 9.6 %
		Υ	3.79	70.19	19.37		150.0	
		Ζ	4.03	70.69	19.72		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	5.24	74.71	20.79	3.01	150.0	± 9.6 %
		Υ	4.82	73.39	19.92		150.0	
		Z	5.25	74.14	20.39		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	5.76	76.76	21.96	3.01	150.0	± 9.6 %
		Y	5.36	75.66	21.24		150.0	
		Z	5.73	75.99	21.47		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.69	72,72	20.82	3.01	150.0	± 9.6 %
		Υ	3.33	70.78	19.63	-	150.0	
		Z	3.78	72.61	20.53		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	5.76	80.54	23.62	3.01	150.0	± 9.6 %
		Υ	4.94	77.74	22,22		150.0	
		Z	5.83	79.90	23.09		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	4.61	75.69	20.76	3.01	150.0	± 9.6 %
		Υ	3.94	72.92	19.25		150.0	
		Z	4.70	75.28	20.35		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	36.99	114.19	35.08	6.02	65.0	± 9.6 %
		Υ	22.97	105.21	32.24		65.0	
		Z	26,68	106.36	32.56		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	41.01	110.69	32.32	6.02	65.0	± 9.6 %
***************************************		Υ	35.83	108.35	31.36		65.0	
1045:		Z	28.00	102.66	29.85		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	30.73	104.07	29.95	6.02	65.0	± 9.6 %
		Υ	27.27	102.14	29.08		65.0	
		Z	22.20	97.35	27.81		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	3.64	72.35	20.56	3.01	150.0	± 9.6 %
		Υ	3,28	70.42	19.36		150.0	
		Z	3.72	72.25	20.28		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	5.77	80.56	23.63	3.01	150.0	± 9.6 %
		Υ	4.95	77.76	22.23		150.0	
		Z	5.84	79.92	23.10		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	3.67	72.53	20.66	3.01	150.0	± 9.6 %
		Y	3.31	70.60	19.46		150.0	
		Z	3.76	72.42	20.38	****	150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	5.68	80.23	23.47	3.01	150.0	± 9.6 %
		Y	4.88	77.46	22.08		150.0	
		Ζ	5.74	79.60	22.95		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	5.14	77.96	22.04	3.01	150.0	± 9.6 %
		Υ	4.38	75.13	20.57		150.0	
****		Ζ	5.21	77.41	21.56		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	4.59	75.59	20.70	3.01	150.0	± 9.6 %
	44.4	Υ	3.92	72.83	19.19		150.0	
		Ζ	4.68	75.18	20.29		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	3.66	72.51	20.66	3.01	150.0	± 9.6 %
		Υ	3.30	70.58	19.46		150.0	
10182-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	Z X	3.75 5.67	72.41 80.21	20.37 23.46	3.01	150.0 150.0	± 9.6 %
CAD	16-QAM)		***************************************					
·-··		Υ	4.87	77.43	22.07		150.0	
····		Ζ	5.73	79.57	22.94		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	4.58	75.56	20.68	3.01	150.0	± 9.6 %
		Υ	3.92	72.80	19.18		150.0	
			4.67	75.15	20.27		150.0	

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.68	72.56	20.68	3.01	150.0	± 9.6 %
		Y	3.32	70.63	19.48		150.0	***************************************
	· · · · · · · · · · · · · · · · · · ·	ż	3.77	72.45	20.39		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	5.70	80.29	23.50	3.01	150.0	± 9.6 %
		Υ	4.90	77.51	22.11		150.0	
		Z	5.76	79.65	22.97		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	4.61	75.64	20.72	3.01	150.0	± 9.6 %
		Υ	3.94	72.88	19.21	~	150.0	
		Z	4.69	75.23	20.31		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	3.69	72.61	20.73	3.01	150.0	± 9.6 %
		Υ	3.33	70.68	19.54		150.0	
		Ζ	3.77	72.50	20.44		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	5.93	81.11	23.91	3.01	150.0	± 9.6 %
		Υ	5.09	78.33	22.53		150.0	
		Z	5.99	80.44	23.37		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	4.73	76.16	21.02	3.01	150.0	± 9.6 %
		Y	4.04	73.37	19.51		150.0	
		Z	4.82	75.73	20.60		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	4.67	66.99	16.47	0.00	150.0	± 9.6 %
		Υ	4.56	66,66	16.13		150.0	
		Z	4.66	66.78	16.26		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	Х	4.87	67.36	16.58	0.00	150.0	± 9.6 %
		Υ	4.75	67.00	16.25		150.0	
		Z	4.87	67.15	16.37		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.91	67.37	16.59	0.00	150.0	±9.6 %
		Υ	4.79	67.03	16.27		150.0	
		Ζ	4.91	67.16	16.38		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	Х	4.69	67.10	16.51	0,00	150.0	± 9.6 %
		Υ	4.58	66.74	16.16		150.0	
		Ζ	4.69	66.88	16.30		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4,89	67.38	16.59	0.00	150.0	± 9.6 %
		Υ	4.77	67.03	16.26		150.0	
		Z	4.88	67.17	16.38		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.92	67.39	16.60	0.00	150.0	±9.6%
		Υ	4.80	67.05	16.28		150.0	
		Z	4.91	67.18	16.39		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	Х	4.64	67.11	16.47	0.00	150.0	± 9.6 %
		Υ	4.53	66.75	16.12		150.0	
		Z	4.64	66.90	16.26		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	×	4.88	67.37	16.59	0.00	150.0	± 9.6 %
		Υ	4.76	67.01	16.26		150.0	
		Z	4.88	67.17	16.38		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	Х	4.92	67.32	16.59	0.00	150.0	± 9.6 %
		Υ	4.80	66.98	16.27		150.0	
		Z	4.92	67.11	16.38		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5,23	67.59	16.70	0.00	150.0	±9.6 %
		Y	5.12	67.23	16.39	 	150.0	1
							100.0	1

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10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	5.61	67.92	16.89	0.00	150.0	± 9.6 %
		Υ	5.46	67.48	16.54		150.0	
40004		Z	5.61	67.78	16.72		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.28	67.68	16.67	0.00	150.0	±9.6 %
		Υ	5.17	67.32	16.37		150.0	
4000=		Z	5.27	67.52	16.48		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	2.96	66.82	16.01	0.00	150.0	±9.6%
		Υ	2.82	66.09	15.31		150.0	
40000		Z	2.93	66.33	15.63		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	43.59	111.94	32.75	6.02	65.0	± 9.6 %
****		Υ	38.77	109.92	31.88		65.0	
4000=		Z	29.30	103.58	30.20	,	65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	32.72	105.33	30.40	6.02	65.0	±9.6%
		Υ	30.31	104.10	29.73		65.0	
10000		Ζ	23.58	98.50	28.23		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	45.04	118.57	36.38	6.02	65.0	± 9.6 %
		Υ	33.63	112.96	34.54		65.0	
4000		Ζ	30.07	109.15	33.47		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	40.99	110.67	32.33	6.02	65.0	± 9.6 %
		Υ	35.91	108.38	31.38		65.0	
		Z	28.02	102.65	29.86		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	31.17	104.37	30.06	6.02	65.0	± 9.6 %
		Υ	28.46	102.90	29.31		65.0	
		Ζ	22.72	97.78	27.95		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	42.43	117.25	35.96	6.02	65.0	± 9.6 %
		Y	31.37	111.47	34.05		65.0	
		Z	28.77	108.18	33.13		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	40.99	110.68	32.33	6.02	65.0	±9.6 %
		Υ	35.90	108.38	31.38		65.0	
		Z	28.01	102.65	29.86		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	31.21	104.41	30.07	6.02	65.0	± 9.6 %
		Y	28.46	102.91	29.32		65.0	
		Z	22.74	97.80	27.96		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	39.80	115.77	35.45	6.02	65.0	±9.6 %
		Υ	29.32	109.94	33.51		65.0	
		Ζ	27.42	107.07	32.71		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	41.16	110.77	32.35	6.02	65.0	±9.6%
		Υ	36.04	108.46	31.40		65.0	
		Ζ	28.08	102.71	29.87		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	31.50	104.54	30.10	6.02	65.0	± 9.6 %
		Υ	28.73	103.05	29.35		65.0	
		Ζ	22.90	97.90	27.98		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	42.99	117.54	36.03	6.02	65.0	±9.6 %
deleter		Υ	31.67	111.68	34.11		65.0	
·		Z	29.03	108.38	33.18		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	Х	41.04	110.71	32.33	6.02	65.0	± 9.6 %
		Υ	35.91	108.40	31.38		65.0	
		Z	28.02	102.67	29.86		65.0	

10239-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	Х	31.24	104.44	30.08	6.02	65.0	± 9.6 %
CAD	64-QAM)					0.02		1 3.0 /0
		Υ	28.46	102.92	29.32		65.0	
		Z	22.74	97.82	27.96		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	42.83	117.47	36.01	6.02	65.0	± 9.6 %
		Υ	31.56	111.62	34.09		65.0	
		Z	28.94	108.32	33.17		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	13.21	88.13	28.12	6.98	65.0	± 9.6 %
		Y	12.19	86.75	27.34		65.0	
		Z	12.93	86.92	27.56		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	11.82	85.64	27.08	6.98	65.0	± 9.6 %
		Υ	11.88	86.18	27.05		65.0	
		Ζ	11.71	84.70	26.62	_,,,,,,	65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Х	9.69	83.18	27.04	6.98	65.0	± 9.6 %
		Υ	8.48	80.58	25.71		65.0	
		Z	9.71	82.55	26.66		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	10.16	81.71	21.73	3.98	65.0	±9.6 %
		Υ	9.31	80.28	20.70		65.0	
		Z	9.66	80.44	21.31		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	9.99	81.19	21.49	3.98	65.0	± 9.6 %
		Y	9.12	79.71	20.44		65.0	
		Z	9.56	80.04	21.12		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	10.26	84.67	22.74	3.98	65.0	±9.6%
		Υ	9.22	82.91	21.64		65.0	
		Z	9.02	82.03	21.79		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	8.13	78.66	21.05	3.98	65.0	± 9.6 %
		Y	7.56	77,60	20.25		65.0	
		Z	7.81	77.51	20.59		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	8.10	78.15	20.84	3.98	65.0	± 9.6 %
		Y	7.50	77.03	20.01		65.0	
	***************************************	Z	7.84	77.14	20.44		65.0	Ĭ
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	11.10	86,20	23.88	3.98	65.0	± 9.6 %
		Y	10.38	85.15	23.14		65.0	
w		Z	9.69	83.27	22.77		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	8.90	80.26	22.85	3.98	65.0	± 9.6 %
		Υ	8.50	79.72	22.41		65.0	
		Z	8.55	78.98	22.26		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	8.43	78.18	21.77	3.98	65.0	± 9.6 %
		Y	7.97	77.44	21.21	T	65.0	
		Z	8.21	77.20	21.30		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	10.55	84.69	23.95	3.98	65.0	± 9.6 %
		Y	10.10	84.18	23.52	1	65.0	
		Z	9.56	82.30	22.95		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	8.29	77.16	21.61	3.98	65.0	± 9.6 %
		Y	7.87	76.45	21.11		65.0	
		Z	8.15	76.38	21.20		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	8.65	77.83	22.17	3.98	65.0	± 9.6 %
J, (D		Y	8.27	77.28	21.75	1	65.0	
		l ż	8.49	77.01	21.74		65.0	

10255-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Х	9.28	80.86	22.71	3.98	65.0	± 9.6 %
CAD	QPSK)	Y	8.89	00.40	00.05		05.0	
		Z	8.89 8.80	80.40 79.34	22.35		65.0	
10256-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	9.13	79.62	21.99 20.18	3.98	65.0 65,0	± 9.6 %
CAA	MHz, 16-QAM)					3.90		± 9.0 %
		Y	7.96	77.38	18.74		65.0	
10057	LTE TOP (OO FOLL)	Z	8.84	78.74	19.97		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	8.90	78.86	19.81	3.98	65.0	± 9.6 %
		Y	7.73	76.58	18.34		65.0	
10258-	LTE-TDD (SC-FDMA, 100% RB, 1.4	Z	8.71	78.17	19.67		65.0	
CAA	MHz, QPSK)	X	8.90	81.94	21.19	3.98	65.0	± 9.6 %
*****		Y	7.60	79.37	19.69		65.0	
10259-	LTE-TDD (SC-FDMA, 100% RB, 3 MHz,	Z	8.10	80.01	20.54		65.0	
CAB	16-QAM)	X	8.43	79.20	21.67	3.98	65.0	± 9.6 %
		Y	7.92	78.34	21.01		65.0	
10260	LITE TOD (OC FDM4, 4000) DD CATH	Z	8.11	78.01	21.17		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	8.43	78.91	21.57	3.98	65.0	± 9.6 %
		Υ	7.92	78.05	20.91		65.0	
40004	1.75 750 (00 50)	Z	8.14	77.80	21.11		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	10.44	84.93	23.72	3.98	65.0	± 9.6 %
		Υ	9.81	84.03	23.07		65.0	
40000	LECTED (OC FELL)	Z	9.35	82.40	22.71		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	8.89	80.23	22.82	3.98	65.0	± 9.6 %
		Υ	8.49	79.67	22.37		65.0	
		Z	8.55	78.95	22.23		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	8.43	78.18	21.77	3.98	65.0	± 9.6 %
-		Y	7.96	77.43	21.21		65,0	
		Ζ	8.21	77.20	21.30		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	10.49	84.56	23.88	3.98	65.0	± 9.6 %
		Υ	10.02	84.01	23.44		65.0	
		Ζ	9.51	82.19	22.89		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	8.52	77.77	21.82	3.98	65.0	± 9.6 %
		Υ	8.07	77.03	21.32		65.0	
		Z	8.36	76.93	21.38		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	8.87	78.41	22.40	3.98	65.0	± 9.6 %
		Υ	8.48	77.88	22.01		65.0	
4000=		Z	8.68	77.54	21.94		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	9.58	81.18	22.60	3.98	65.0	± 9.6 %
		Y	9.19	80.75	22.26		65.0	
40000	LITE TOD (OR TOWN)	Z	9.04	79.59	21.85		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	8.91	77.09	21.88	3.98	65.0	± 9.6 %
		Υ	8.54	76.56	21.51		65.0	
40000		Z	8.80	76.43	21.50		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	8.82	76.67	21.78	3.98	65.0	± 9.6 %
		Υ	8.46	76.15	21.41		65.0	
		Z	8.73	76.06	21.42		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	8.97	78.33	21.62	3.98	65.0	± 9.6 %
		Υ	8.64	77.97	21.34		65.0	
		Z	8.71	77.32	21.10		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	Х	2.72	67.23	15.95	0.00	150.0	± 9.6 %
		Υ	2.57	66.31	15.13		150.0	
		Z	2.65	66.56	15.46		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	Х	1.89	70.77	17.26	0.00	150.0	± 9.6 %
•		Υ	1.58	67.67	15.25		150.0	
		Z	1.72	68.75	16.01		150.0	
10277- CAA	PHS (QPSK)	X	6.00	70.47	14.76	9.03	50.0	± 9.6 %
		Y	5.21	68.57	13.21		50.0	
		Z	6.28	70.88	15.27		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	Х	9.55	80.33	21.17	9.03	50.0	± 9.6 %
		Υ	8.72	78.79	19.97		50.0	
		Z	9.29	79.51	21.06		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	9.72	80.54	21.26	9.03	50.0	± 9.6 %
		Υ	8.86	78.97	20.05		50.0	
		Z	9.46	79.72	21.15		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	Х	2.18	74.40	17.31	0.00	150.0	± 9.6 %
		Υ	1.44	68.27	13.81		150.0	
		Ζ	1.72	70.30	15.40		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	Х	1.24	71.68	16.15	0,00	150.0	± 9.6 %
		Y	0.80	65.30	12.12		150.0	
		Z	0.97	67,39	13.90		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	Х	2.10	80.68	20.23	0.00	150.0	± 9.6 %
		Υ	0.98	68.86	14,25		150.0	
		Z	1.23	71.77	16.34		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	4.35	92.52	24.81	0.00	150.0	± 9.6 %
		Υ	1.43	74.29	17.12		150.0	
		Z	1.75	77.17	19.08		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Х	11.19	84.61	24.64	9.03	50.0	± 9.6 %
		Y	11.12	84.62	24.20		50.0	
		Z	10.33	82.52	23.91		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	3.13	71.75	17.66	0.00	150.0	± 9.6 %
		Y	2.77	69.64	16.38		150.0	
		Z	2.96	70.46	16.84		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	2.07	71.56	16.68	0.00	150.0	± 9.6 %
		Υ	1.59	67.63	14.15		150.0	
		Z	1.84	69.13	15.41		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	4.44	77.05	18.50	0.00	150.0	±9.6%
		Y	3.17	71.89	15.69		150.0	
		Z	3.89	74.52	17.46		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	2.98	70.18	14.87	0.00	150.0	± 9.6 %
		Υ	2.33	66.80	12.64		150.0	
		Z	2.88	69,22	14.45		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Х	5.88	68.71	19.12	4.17	80.0	± 9.6 %
		Υ	5.67	68.35	18.79		80.0	
		Z	5.96	68.70	19.05		80.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	Х	6.49	69.93	20.23	4.96	80.0	± 9.6 %
-		Y	6.06	68.48	19.24		80.0	
		Z	6.58	69.96	20.17		80.0	

10303-	IEEE 802.16e WIMAX (31:15, 5ms,	Х	6.38	70.18	20.37	4.96	80.0	±9.6 %
AAA	10MHz, 64QAM, PUSC)	1,1	F 00	00 50	100=			
		Y	5.90	68.52	19.27		80.0	E
10304-	IEEE 802.16e WIMAX (29:18, 5ms,	Z X	6.49 5.94	70.27 69.20	20.35 19.41	4.17	80.0 80.0	±9.6%
AAA	10MHz, 64QAM, PUSC)	- ,	F F F	07.04	45.45			
		Y	5.55	67.84	18.48		80.0	
10305-	IEEE 802.16e WIMAX (31:15, 10ms,	X	6.02 8.63	69.19 79.84	19.33 25.16	0.00	80.0	1000
AAA	10MHz, 64QAM, PUSC, 15 symbols)					6.02	50.0	± 9.6 %
*****		Y Z	8.50 9.07	80.74	25.49		50.0	1
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	7.19	80.51 74.26	25.38 22.98	6.02	50.0 50.0	± 9.6 %
		Y	6.24	70.98	21.03		50.0	
		Ζ	7.44	74.65	23.11		50.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	Х	7.43	75.32	23.26	6.02	50.0	± 9.6 %
		Υ	7.08	75.34	23.24		50.0	
		Z	7.71	75.76	23.39		50.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	Х	7.56	75.95	23.55	6.02	50.0	± 9.6 %
		Υ	7,22	76.07	23.58		50.0	
40000		Z	7.85	76.40	23.68		50.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	7.34	74.67	23.20	6.02	50.0	± 9.6 %
		Y	6.34	71.28	21.21		50.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Z X	7.59 7.26	75.05 74.63	23.31 23.05	6.02	50.0 50.0	±9.6%
70.01	TOWN 12, QF 3N, AIVIC 2X3, TO SYMBOIS)	Y	6.24	71.19	21.04		50.0	
		ż	7.51	75.03	23.17		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.50	70.87	17.20	0.00	150.0	±9.6%
****		TY	3.12	68.92	16.05		150.0	
		Z	3.32	69.72	16.47		150.0	
10313- AAA	IDEN 1:3	Х	8.27	79.76	19.38	6.99	70.0	± 9.6 %
		Υ	7.09	77.48	18.12		70.0	
		Z	7.27	77.42	18.52		70.0	
10314- AAA	IDEN 1:6	Х	10.52	85.41	23.73	10.00	30.0	±9.6%
·M		Υ	9.80	84.47	23.05		30.0	
40045		Z	8.56	81.26	22,24		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.21	66.04	16.76	0.17	150.0	± 9.6 %
		Y	1.11	64.36	15.28		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	1.16 4.78	64.99 67.20	15.81 16.69	0.17	150.0 150.0	± 9.6 %
, n 114	O Divi, O Mibps, Sope daily Cycle)	T 🗸	4.67	66.87	16.36		150.0	
		ż	4.78	67.00	16.48		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.78	67.20	16.69	0.17	150.0	± 9.6 %
		Υ	4.67	66.87	16.36		150.0	
		Z	4.78	67.00	16.48		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.88	67.44	16.59	0.00	150.0	± 9.6 %
		Υ	4.75	67.07	16.25		150.0	
10		Ζ	4.88	67.23	16.38		150.0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.52	67.51	16.67	0.00	150.0	± 9.6 %
		Υ	5.43	67.26	16.42		150.0	
		Z	5.50	67.29	16.46	ļ	150.0	1

10402-	IEEE 802.11ac WiFi (80MHz, 64-QAM,	Х	5.81	67.99	16.74	0.00	150.0	± 9.6 %
AAD	99pc duty cycle)							
		Υ	5.71	67.67	16.46		150.0	
		Z	5.80	67.83	16.56		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	Х	2.18	74.40	17.31	0.00	115.0	± 9.6 %
		Υ	1.44	68.27	13.81		115.0	
		Ζ	1.72	70.30	15.40		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	2.18	74.40	17.31	0.00	115.0	± 9.6 %
		Υ	1.44	68.27	13.81		115.0	
		Z	1.72	70.30	15.40		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	125.34	32.57	0.00	100.0	± 9.6 %
		Υ	100.00	122.30	30.90		100.0	
***************************************		Z	100.00	123.59	31.86		100.0	
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	121.08	31.14	3.23	80.0	± 9.6 %
		Υ	100.00	119.39	30.03		80.0	
		Z	100.00	119.84	30.69		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Х	1.04	64.21	15.75	0.00	150.0	± 9.6 %
		Υ	0.96	62.81	14.37		150.0	
		Z	1.00	63.31	14.86		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.68	67.03	16.52	0.00	150.0	± 9.6 %
		Υ	4.57	66.70	16.19		150.0	
		Z	4.67	66.81	16.30		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х	4.68	67.03	16.52	0.00	150.0	± 9.6 %
		Y	4.57	66.70	16.19		150.0	
		Z	4.67	66.81	16.30		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.66	67.18	16.53	0.00	150.0	± 9.6 %
		Υ	4.55	66.84	16.19		150.0	
		Z	4.65	66.94	16.30		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.69	67.13	16.53	0.00	150.0	± 9.6 %
		Υ	4.58	66.80	16.20		150.0	
		Z	4.68	66.91	16.31		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	Х	4.81	67.13	16.54	0.00	150.0	± 9.6 %
		Υ	4.70	66.81	16.22		150.0	
		Z	4.80	66.92	16.33		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	5.01	67.51	16.68	0.00	150.0	± 9.6 %
		Υ	4.89	67.16	16.35		150.0	
		Z	5.01	67.31	16.47		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	Х	4.92	67.45	16.65	0.00	150.0	±9.6 %
		Υ	4.80	67.10	16.32	<u> </u>	150.0	
		Z	4.92	67.24	16.43		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.50	67.77	16.79	0.00	150.0	± 9.6 %
		Y	5.41	67.50	16.53		150.0	
		Z	5.49	67.58	16.59		150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.51	67.80	16.80	0.00	150.0	± 9.6 %
		Y	5,41	67.51	16.53		150.0	
	1	Z	5.50	67.62	16.60		150.0	1

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.53	67.79	16.79	0.00	150.0	± 9.6 %
<u> </u>		Y	5.42	67.48	16.51		450.0	
		Z	5.52	67.63			150.0	
10430-	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.38	70.70	16.61	0.00	150.0	
AAB	2.2.1 33 (0.1 3887, 3 18872, 2-11913.1)				18.40	0.00	150.0	± 9.6 %
	***	Y	4.25	70.46	18.05		150.0	
40424	LTC CDD (OCD)	Z	4.31	70.02	17.98		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	Х	4.42	67.67	16.62	0.00	150.0	± 9.6 %
		Υ	4.27	67.23	16.20		150.0	
40400		Z	4.41	67.37	16.37		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	Х	4.70	67.52	16.63	0.00	150.0	± 9.6 %
		Υ	4.57	67.13	16.26		150.0	
40400		Z	4.70	67.28	16.40		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.94	67.50	16.67	0.00	150.0	± 9.6 %
		Υ	4.82	67.14	16.34		150.0	
4045		Z	4.94	67.29	16.46		150.0	
10434- _AAA	W-CDMA (BS Test Model 1, 64 DPCH)	Х	4.49	71.52	18.43	0.00	150.0	± 9.6 %
AAA		Υ	4.34	71.22	18.01		150.0	
		Ζ	4.39	70.68	17.96		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	120.92	31.06	3.23	80.0	± 9.6 %
		Υ	100.00	119.22	29.95	, , , , , , , , , , , , , , , , , , ,	80.0	
		Z	100.00	119.70	30.62		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	3.75	67.86	16.21	0.00	150.0	±9.6 %
		Υ	3.56	67.20	15.57		150.0	
		Ζ	3.73	67.41	15.90		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Х	4.24	67.45	16.49	0.00	150.0	± 9.6 %
		Υ	4.10	67.00	16.05		150.0	
		Z	4.22	67.14	16.23		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	Х	4.49	67.35	16.53	0.00	150.0	± 9.6 %
		Υ	4.37	66.95	16.16	·····	150.0	
		Z	4,48	67.09	16.30		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.67	67.26	16.53	0.00	150.0	± 9.6 %
		Υ	4.56	66.89	16.18		150.0	
		Z	4.66	67.04	16.31		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Х	3.69	68.21	15.98	0.00	150.0	± 9.6 %
		Υ	3.47	67.39	15.23		150.0	
		Z	3.66	67.69	15.67		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Х	6.36	68.35	16.93	0.00	150.0	± 9.6 %
		Y	6.27	68.07	16.69		150.0	
		Z	6.35	68.21	16.77		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	Х	3.86	65.66	16.26	0.00	150.0	± 9.6 %
		Υ	3.78	65.32	15.90		150.0	
		Z	3.84	65.45	16.04		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	4.10	70.68	17.90	0.00	150.0	± 9.6 %
		Υ	3.95	70.36	17.40	******	150.0	
		Z	3.98	69.73	17.40		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	Х	5.16	67.87	18.15	0.00	150.0	± 9.6 %
		\vdash					1	
		Υ	5.08	67.96	18.01		150.0	

10460- AAA	UMTS-FDD (WCDMA, AMR)	Χ	1.21	74.36	19.56	0.00	150.0	± 9.6 %
		Υ	0.84	67.73	15.53		150.0	
		Z	0.96	69.69	16.87		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	124.72	32,88	3.29	80.0	± 9.6 %
		Υ	100.00	122.71	31.63		80.0	
		Z	100.00	122.27	31.89		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	110.81	26.22	3.23	80.0	± 9.6 %
		Υ	100.00	107.68	24.48		80.0	
		Z	100.00	109.58	25.81		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	108.02	24.88	3.23	80.0	± 9.6 %
		Y	17.57	87.04	18.79		80.0	
10101	1 TE TOD (00 FOMA 4 DD 0 MI)	Z	57.71	101.03	23.21	0.00	80.0	1000
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.99	31.92	3.23		80.0 ± 9.6 % 80.0 80.0 ± 9.6 % 80.0 80.0 80.0
		Y	100.00	120.66	30.52			
1046E	LITE TOD (CO EDMA 4 DD CARLE 40	Z	100.00 100.00	120.59	30.96 26.00	2.00		1060/
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X		110.36	!	3.23		±9.0 %
		Y	69.93	103.37	23.39			
40400	LITE TOD (CO FDMA 4 DD O MILE CA	Z	100.00	109.17	25.60	2.22		1000
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	107.59	24.67	3.23	80.0	±9.6%
		Y	10.32	81.39	17.12		80.0	
40467	LTE TOD (CO FDMA 4 DD 5 MU-	Z	32.56	94.43	21.51	2 22	80.0	+0.6.0/
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.18	32.01	3.23	80.0	± 9.6 %
		Y	100.00	120.88	30.62		80.0	
40400	LTE TOO (OO FOMA A DD FAMIL AC	Z	100.00	120.77	31.04	0.00	80.0	I
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.50	26.06	3.23	80.0	± 9.6 %
***************************************		Y	95.55	106.84	24.20		80.0	
10100	1 TE TOO (00 EDIM 4 DD EAN) 04	Z	100.00	109.30	25.66	0.00	80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	107.60	24.67	3.23	80.0	± 9.6 %
		Y	10.51	81.58	17.17	<u> </u>	80.0	
10.170	1 T T T T T T T T T T T T T T T T T T T	Z	33.51	94.76	21.58		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.21	32,02	3.23	80.0	± 9.6 %
		Y	100.00	120.90	30.62		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	120.79 110.46	31.05 26.04	3.23	80.0	± 9.6 %
	and the contraction and the contraction	Y	94.56	106.68	24.14		80.0	
		Ż	100.00	109.26	25.63		80.0	1
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	107.56	24.64	3.23	80.0	± 9.6 %
	7	Y	10.43	81.48	17.13		80.0	1
		Z	33.64	94.78	21.58		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.19	32.00	3.23	80.0	± 9.6 %
		Υ	100.00	120.87	30.61		80.0	
***************************************		Z	100.00	120.77	31.03		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	110.47	26.04	3.23	80.0	±9.6 %
		Υ	92.06	106.40	24.08		80.0	
		Z	100.00	109.26	25.64		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	107.57	24.65	3.23	80.0	± 9.6 %
		Υ	10.30	81.37	17.09		80.0	
		Z	33.12	94.61	21.54		80.0	

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	110.32	25.97	3.23	80.0	± 9.6 %
		Y	73.47	103.85	23.47		80.0	
		Z	100.00	109.13	25.57		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	107.52	24.63	3.23	80.0	± 9.6 %
		Υ	10.13	81.17	17.03		80.0	
		Z	32.56	94.40	21.47		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	23.24	102.02	28,60	3.23	80.0	± 9.6 %
		Y	17.72	96.96	26.53		80.0	
40400		Z	12.62	91.31	25.32		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	23.79	96.38	25.31	3.23	80.0	± 9.6 %
		Υ	16.50	90.35	22.90		80.0	
40404	LTE TOD (OC FEMAN COS)	Z	13.56	87.65	22.71		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	19.64	92.74	23.93	3.23	80.0	± 9.6 %
		Y	13.10	86.39	21.35		80.0	
10482-	LITE TOD (CO FDMA FOR DE CARE	Z	12.05	85.29	21.66		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	8.49	84.69	22.05	2.23	80.0	±9.6%
		Y	5.66	78.52	19.36		80.0	
40400	LTE TOD (OO FOLM FOR OR OLD)	Z	6.07	79.11	20.05		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.70	86.22	22.45	2.23	80.0	± 9.6 %
		Y	8.73	81.47	20.24		80.0	
10484-	LTE TOD (CC FDMA 500) DD 0 MIL	Z	8.71	81.39	20.85		80.0	
AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	10.50	84.41	21.86	2.23	80.0	± 9.6 %
		Υ	7.92	79.90	19.71		80.0	
10100		Z	8.18	80.26	20.46		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	8.12	84,44	22.68	2.23	80.0	±9.6%
		Υ	5.95	79.56	20.54		80.0	
		Z	6.24	79.61	20.83		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.60	75.72	19.25	2.23	80.0	± 9.6 %
		Υ	4.71	73.16	17.81		80.0	
		Z	5.00	73.46	18.29		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.48	75.06	18.99	2.23	80.0	± 9.6 %
		Υ	4.65	72.64	17.60		80.0	
		Ζ	4.96	73.01	18.11		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.06	80.88	21.92	2.23	80.0	± 9.6 %
		Υ	5.70	77.55	20.40		80.0	
40400		Z	6.08	77.77	20.57		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.31	73.88	19.45	2.23	80.0	± 9.6 %
	A A A Productive .	Υ	4.75	72.25	18.50		80.0	
40400	LITE TOD (OO EDITE TOO EDITE TO EDITE TO TOO EDITE TO TOO EDITE TO TOO EDITE TO EDITE EDITE TO EDITE TO EDITE TO EDITE TO EDITE TO EDITE EDITE TO EDITE EDI	Z	5.02	72,44	18.71		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.32	73.40	19.28	2.23	80.0	± 9.6 %
		Y	4.80	71.92	18.39		80.0	
40404		Z	5.07	72.08	18.60		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	6.29	77.08	20.62	2.23	80.0	±9.6 %
		Υ	5.44	74.84	19.51		80.0	
		Z	5.78	75.12	19.66		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.38	72.26	19,03	2.23	80.0	± 9.6 %
		Υ	4.95	71.03	18.29		80.0	
		Z	5.22	71.29	18.47		80.0	

10493-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	5.41	71.97	18.93	2.23	80.0	± 9.6 %
AAC	64-QAM, UL Subframe=2,3,4,7,8,9)	Y	4.00				00.0	
		Z	4.99	70.82	18.22		80.0	
10404	LTE TOD (SC CDMA FOW DD 20 MLH		5.27	71.06	18.40 21.31	2.22	80.0	+069/
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.26	79.46		2.23	80.0	± 9.6 %
		Υ	6.08	76.70	20.04		80.0	
		Z	6.47	77.03	20.19		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.52	72.92	19.28	2.23	80.0	± 9.6 %
		Υ	5.04	71.57	18.51		80.0	
		Z	5.33	71.88	18.69		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.51	72.36	19.10	2.23	80.0	± 9.6 %
		Υ	5.07	71.15	18.38		80.0	
		Z	5.35	71.43	18.55		80.0	
	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.84	81,16	20.14	2.23	80.0	± 9.6 %
		Y	4.18	74.07	16.91		80.0	
		Ζ	4.97	76.21	18.38		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.23	71.63	15.72	2.23	80.0	±9.6 %
		Υ	2,88	66.72	12.99		80.0 80.0	
		Z	3.81	69.89	15.10			
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.07	70.79	15.25	2.23		± 9.6 %
		Υ	2.78	66.03	12.55		80.0	
		Ζ	3.73	69.33	14.75			
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.25	82.07	22.09	2.23		± 9.6 %
		Υ	5.64	78.16	20.30		80.0	
		Z	5.95	78.24	20.53	***************************************	80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.43	74.78	19.24	2.23		± 9.6 %
		Υ	4.72	72.72	18.04		80.0	
		Z	4.99	72.91	18.39		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.43	74.40	19.05	2.23	80.0	± 9.6 %
		Υ	4.75	72.45	17.89		80.0	
		Z	5.01	72.63	18.25		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.96	80.64	21.82	2.23	80.0	± 9.6 %
		Υ	5.62	77.31	20.29		80.0	
		Z	6.00	77.58	20.48		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.28	73.79	19.40	2.23	80.0	± 9.6 %
		Υ	4.72	72.15	18.44		80.0	
		Z	5.00	72.37	18.67		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.30	73.31	19.23	2,23	80.0	± 9.6 %
		Υ	4.78	71.81	18.34		80.0	
		Z	5.05	72.00	18.55		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.19	79.29	21.23	2.23	80.0	± 9.6 %
		Y	6.02	76.53	19.97		80.0	
		Z	6.42	76.89	20.13		80.0	
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.49	72.85	19.25	2.23	80.0	± 9.6 %
		Υ	5.02	71.50	18.47		80.0	
		Z	5.31	71.82	18.66	1	80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL	Х	5.49	72.29	19.06	2.23	80.0	± 9.6 %
	Subframe=2,3,4,7,8,9)	+.,-	F 0F	74.05	40.01			
		Y	5.05	71.07	18.34		80.0	
10509-	LTE-TDD (SC-FDMA, 100% RB, 15	Z X	5.33 6.71	71.37	18.52	0.00	80.0	
AAC	MHz, QPSK, UL Subframe=2,3,4,7,8,9)			76.12	20.06	2.23	80.0	± 9.6 %
***************************************		Y	5.94	74.25	19.13		80.0	
10510-	LTE-TDD (SC-FDMA, 100% RB, 15	Z	6.28	74.57	19.27		80.0	
AAC	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.84	71.95	18.94	2.23	80.0	±9.6 %
		Y	5.42	70.86	18.30		80.0	
40-11		Z	5.71	71.20	18.47		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.82	71.51	18.81	2.23	80.0	± 9.6 %
		Υ	5.44	70.51	18.21		80.0	
		Z	5.71	70.83	18.37		80.0	·
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.61	78.80	20.90	2.23	80.0	± 9.6 %
		Υ	6.48	76.29	19.75		80.0	
		Z	6.88	76.71	19.92		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.82	72.58	19.18	2.23	80.0	± 9.6 %
***************************************		Y	5.36	71.33	18.47		80.0	
		Z	5.67	71.74	18.66		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.73	71.89	18.96	2.23	80.0	± 9.6 %
		Y	5.32	70.77	18.31		80.0	
		Z	5.61	71.15	18.49		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	Х	1.00	64.53	15.90	0.00	150.0	± 9.6 %
		Y	0.92	62.98	14.41		150.0	
40540		Z	0.96	63.54	14.94		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.68	91.06	26.34	0.00	150.0	± 9.6 %
·····		Y	0.55	69.99	16.34		150.0	
40547		Z	0.73	74.56	19.01		150.0	
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.92	68.12	17.45	0.00	150.0	±9.6%
		Y	0.77	64.83	14.89		150.0	
10518-	IEEE 000 446/h M//E: E OU L. (OEDM O	Z	0.84	65.95	15.79		150.0	
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.67	67.12	16.50	0.00	150.0	±9.6%
		Y	4.56	66.77	16.17		150.0	
10519-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12	Z	4.66	66.89	16.28	0.00	150.0	1000
AAB	Mbps, 99pc duty cycle)	X	4.89	67.40	16.64	0.00	150.0	± 9.6 %
		YZ	4.77	67.04	16.30	<u> </u>	150.0	
10520-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18	$\frac{2}{x}$	4.89 4.74	67.19	16.43	0.00	150.0	+0.6.0/
AAB	Mbps, 99pc duty cycle)	^ ^	4.74	67.39	16.57	0.00	150.0	± 9.6 %
		Z	4.61	67.01 67.17	16.22		150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.67	67.41	16.35 16.56	0.00	150.0 150.0	± 9.6 %
		Y	4.55	67.00	16.20		150.0	
		Ż	4.67	67.18	16.34		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.72	67.39	16.60	0.00	150.0	± 9.6 %
		Y	4.60	67.04	16.27		150.0	
		Z	4.71	67.14	16.36		150.0	

10523- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.59	67.29	16.46	0.00	150.0	± 9.6 %
	po, copo daty dydio/	Y	4.47	66.91	16.11		150.0	
		z	4.58	67.04	16.22		, + +	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.67	67.35	16.59	0.00	150.0	± 9.6 %
		Υ	4.55	66.98	16.24		150.0	
		Ζ	4.67	67.11	16.36			
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.63	66.37	16.17	0.00	150.0	± 9.6 %
		Y	4.52	66.01	15.83		150.0	
		Z	4.62	66.13	15.94		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.83	66.78	16.32	0.00	150.0 150.0	±9,6 %
		Y	4.70	66.40	15.97			
		Z	4.82	66.54	16.09	****		^
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.75	66.76	16.27	0.00		±9.6 %
		Υ	4.62	66.36	15.92			
10555	A DOT THE CO. O. O. A.	Z	4.74	66.51	16.04			
10527- IEEE 802.11ac WiFi (2 99pc duty cycle) 10528- IEEE 802.11ac WiFi (2 99pc duty cycle) 10529- IEEE 802.11ac WiFi (2 99pc duty cycle) 10531- IEEE 802.11ac WiFi (2 99pc duty cycle)	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.77	66.78	16.31	0.00		± 9.6 %
		Υ	4.64	66.38	15.95			
40500	LEEE COO 44 MIE! (CO. III.	Z	4.76	66.54	16.08			
	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.77	66.78	16.31	0.00		± 9.6 %
		Y	4.64	66.38	15.95			
	IEEE 802.11ac WiFi (20MHz, MCS6,	Z X	4.76 4.78	66.54 66.93	16.08 16.34	0.00		± 9.6 %
7470	oope daty cycle)	Y	4.64	66.50	15.97		150.0	
		Ż	4.77	66.69	16.10			
	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.63	66.80	16.29	0.00		± 9.6 %
***************************************		Y	4.49	66.35	15.90		150.0	
		Z	4.62	66.56	16.05			
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	4.78	66.80	16.29	0.00		± 9.6 %
		Υ	4.65	66.41	15.94		150.0	
		Z	4.77	66.55	16.05			
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.28	66.88	16.33	0.00		± 9.6 %
		Υ	5.17	66.53	16.03		150.0	
		Z	5.27	66.70	16.13			
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	5.35	67.03	16.39	0.00	150.0	± 9.6 %
		Y	5.24	66.69	16.10			
		Z	5.34	66.84	16.18			
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.22	67.03	16.37	0.00		± 9.6 %
		<	5.10	66.65	16.06			
		Z	5.21	66.83	16.16			
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5,29	67.00	16.36	0.00		± 9.6 %
		\	5.17	66.63	16.05		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.27 5.40	66.80 67.06	16.15 16.43	0.00	150.0 150.0	± 9.6 %
ヘヘレ	Japo duty cycle)	 _	5.27	66.69	16.12		150.0	-
			5.39		16.12		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.30	66.88 67.01	16.42	0.00	150.0	± 9.6 %
יעטי	oopo daty cycle)	Y	5.19	66.66	16.12		150.0	

10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	Х	5.28	66.90	16.36	0.00	150.0	± 9.6 %
		Y	5.16	66.53	16.05	 	150.0	
		Z	5.27	66.74	16.17		150.0	
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.43	66.95	16.40	0,00	150.0	± 9.6 %
		Υ	5.32	66.61	16.11		150.0	
		Z	5.42	66.77	16.20		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	5.51	66.95	16.41	0.00	150.0	± 9.6 %
		Y	5.40	66.65	16.14		150.0	
10544-	WEET 000 44 - WEET (OOM) MOOO	Z	5.51	66.78	16.22		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.56	66.97	16.30	0.00	150.0	±9.6 %
ht		Y	5.46	66.64	16.02		150.0	
10545-	IEEE 802.11ac WiFi (80MHz, MCS1,	X	5.54	66.80	16.11	0.00	150.0	
AAB	99pc duty cycle)	Y	5.78	67.41	16.46	0.00	150.0	±9.6%
	144444444444444444444444444444444444444		5.68	67.09	16.19		150.0	
10546-	IEEE 802.11ac WiFi (80MHz, MCS2,	Z	5.76 5.66	67.21	16.25	0.00	150.0	1000
AAB	99pc duty cycle)	X	5.66	67.27	16.41	0.00	150.0	± 9.6 %
			5.55	66.90	16.11		150.0	
10547-	IEEE 802.11ac WiFi (80MHz, MCS3,	Z X	5.65 5.75	67.10	16.22	0.00	150.0	
AAB	99pc duty cycle)			67.34	16.43	0.00	150.0	± 9.6 %
		Y	5.64	66.99	16.14		150.0	
10548-	IEEE 802.11ac WiFi (80MHz, MCS4,	Z	5.73 6.10	67.16	16.24	0.00	150.0	1000
AAB	99pc duty cycle)			68.57	17.02	0.00	150.0	±9.6 %
		Y	5.97	68.15	16.70		150.0	
10550-	IFEE 902 44 co WIFE (COMULA MODE)	Z	6.06	68.30	16.78		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	Х	5.68	67.21	16.39	0.00	150.0	± 9.6 %
		Y	5.57	66.88	16.11	+	150.0	
10551-	IEEE 802.11ac WiFi (80MHz, MCS7,	Z X	5.66 5.70	67.04 67.30	16.20 16.39	0.00	150.0 150.0	± 9.6 %
AAB	99pc duty cycle)	- , -						
		Y	5.58	66.93	16.09		150.0	
10552-	JEEE 000 44 - WIEI (00MI - MOOO	Z	5.68	67.15	16.21		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.59	67.05	16.28	0.00	150.0	±9.6%
		Y	5.48	66.70	15.99		150.0	
10553-	JEEE 000 44 WIEL (COMILL MOOO	Z	5.58	66.90	16.10		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)		5.69	67.10	16.33	0.00	150.0	± 9.6 %
		Y	5.57	66.76	16.05	<u> </u>	150.0	
10554-	IEEE 802.11ac WiFi (160MHz, MCS0,	Z	5.67 5.97	66.95	16.15	0.00	150.0	
AAC AAC	99pc duty cycle)			67.34	16.39	0.00	150.0	±9.6%
·····		YZ	5.87 5.94	67.02	16.12		150.0	
10555-	IEEE 802.11ac WiFi (160MHz, MCS1,	<u>Z</u>	6.12	67.19 67.69	16.21 16.53	0.00	150.0	TUE 0/
AAC	99pc duty cycle)	^ Y				0.00	150.0	± 9.6 %
		Z	6.01 6.10	67.35	16.26	 	150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.13	67.54 67.71	16.36 16.53	0.00	150.0 150.0	± 9.6 %
		Y	6.03	67.38	16.27		150.0	
						-		
			6.11	67.54	1 16 35		1 1500	l
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99cc duty cycle)	Z X	6.11 6.12	67.54 67.66	16.35 16.53	0.00	150.0 150.0	± 9.6 %
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	Z				0.00		± 9.6 %

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10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.18	67.86	16.65	0.00	150.0	± 9.6 %
		Y	6.06	67.49	16.36		150.0	
		Ż	6.16	67.71	16.47		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.16	67.67	16.59	0.00	150.0	± 9.6 %
		Y	6.05	67.32	16.31		150.0	
		Z	6.15	67.54	16.42		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	6.08	67.64	16.61	0.00	150.0	± 9.6 %
		Υ	5.97	67.29	16.33		150.0	
		Z	6.06	67.49	16.44		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Х	6.25	68.16	16.88	0.00	150.0	± 9.6 %
		Y	6.13	67.77	16.57		150.0	
		Z	6.23	68.01	16.70		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.60	68.73	17.10	0.00	150.0	± 9.6 %
		Υ	6.50	68.45	16.86		150.0	
		Z	6.53	68.43	16.86		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	Х	5.01	67.24	16.68	0.46	150.0	± 9.6 %
		Y	4.90	66.90	16.36		150.0	
		Z	5.01	67.05	16.49		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.27	67.70	16.99	0.46	150.0	± 9.6 %
		Y	5.15	67.37	16.68		150.0	
		Z	5.27	67.52	16.80		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	5.11	67.60	16.84	0.46	150.0	± 9.6 %
		Υ	4.98	67.23	16.50		150.0	
		Z	5.11	67.41	16.64		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.13	67.96	17.16	0.46	150.0	± 9.6 %
************************		Υ	5.01	67.61	16.84		150.0	
		Z	5.13	67.75	16.95		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	5.02	67.36	16.62	0.46	150.0	± 9.6 %
~~~		Υ	4.90	67.01	16.28		150.0	
		Z	5.02	67.16	16.41		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	5.07	67.97	17.18	0.46	150.0	± 9.6 %
		Y	4.96	67.67	16.89		150.0	
V		Z	5.06	67.76	16.96		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.11	67.83	17.12	0.46	150.0	± 9.6 %
	·	Υ	5.00	67.52	16.83		150.0	
		Z	5.11	67.61	16.91		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.43	67.78	17.55	0.46	130.0	± 9.6 %
		Υ	1.29	65.83	16.01		130.0	
		Z	1.37	66.57	16.56		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.47	68.62	18.01	0.46	130.0	± 9.6 %
		Υ	1.32	66.50	16.39		130.0	
		Z	1.40	67.26	16.95		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	100.00	147.77	39.50	0.46	130.0	±9.6 %
		Υ	5.11	95.86	25,26		130.0	
		Z	11.46	108.94	29.46		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	2.11	79.07	22.64	0.46	130.0	±9.6 %
		Υ	1.59	73.49	19.59		130.0	
		Z	1.75	74.78	20.34	T	130.0	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Х	4.84	67.12	16.79	0.46	130,0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)							
		Y	4.72	66.80	16.47		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.83	66.93	16.59		130.0	
AAA	OFDM, 9 Mbps, 90pc duty cycle)	Х	4.86	67.28	16.85	0.46	130.0	±9.6%
		Y	4.75	66.95	16.53		130.0	
10577-	IEEE 000 44- Wift o 4 OU (DOOD	Z	4.86	67.08	16,65		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	5.09	67.60	17.02	0.46	130.0	±9,6%
		Y	4.97	67.26	16.71		130.0	
10578-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	5.10	67.41	16.83		130.0	
AAA	OFDM, 18 Mbps, 90pc duty cycle)	X	4.99	67.77	17.12	0.46	130.0	± 9.6 %
		Y	4.86	67.43	16,80		130.0	
10579-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.99	67.57	16.91		130.0	
AAA	OFDM, 24 Mbps, 90pc duty cycle)	X	4.77	67.19	16.53	0.46	130.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Y	4.64	66.77	16.15		130.0	·······
10580-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.78	67.01	16.33	6.45	130.0	
AAA	OFDM, 36 Mbps, 90pc duty cycle)	X	4.81	67.17	16.53	0.46	130.0	±9.6%
		Y	4.68	66.78	16.16		130.0	
10581-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.82	66.97	16.32		130.0	
AAA	OFDM, 48 Mbps, 90pc duty cycle)	X	4.90	67.87	17.09	0.46	130.0	± 9.6 %
		Y	4.77	67.49	16.75		130.0	
10582-	1555 000 44× W551 0 4 GU - (5000	Z	4.90	67.66	16,87		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	Х	4.73	66.96	16.34	0.46	130.0	± 9.6 %
		Y	4.59	66.53	15.94		130.0	
40500		Z	4.73	66.78	16.14		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.84	67.12	16.79	0.46	130.0	± 9.6 %
		Y	4.72	66.80	16.47		130.0	
40004		Z	4.83	66.93	16.59		130.0	
10584- AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	Х	4.86	67.28	16.85	0.46	130.0	± 9.6 %
		Υ	4.75	66.95	16.53		130.0	
		Z	4.86	67.08	16.65		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.09	67.60	17.02	0.46	130.0	± 9.6 %
		Υ	4.97	67.26	16.71		130.0	
		Z	5.10	67.41	16.83		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.99	67.77	17.12	0.46	130.0	± 9.6 %
		Υ	4.86	67.43	16.80		130.0	
10505		Z	4.99	67.57	16.91		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.77	67.19	16.53	0.46	130.0	±9.6%
		Υ	4.64	66.77	16.15		130.0	
10		Z	4.78	67.01	16.33		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	Х	4.81	67.17	16.53	0.46	130.0	± 9.6 %
		Y	4.68	66.78	16.16		130.0	
40500	IEEE 000 44 # MIEEE COL (CERTICAL)	Z	4.82	66.97	16.32		130.0	
10589- AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.90	67.87	17.09	0.46	130.0	± 9.6 %
		Y	4.77	67.49	16.75		130.0	
40500	HEEF OOD 44 - IL MIELE ON LOTTE -	Z	4.90	67.66	16.87		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	Х	4.73	66.96	16.34	0.46	130.0	± 9.6 %
		Υ	4.59	66.53	15.94		130.0	
		Z	4.73	66.78	16.14		130.0	

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10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.98	67.15	16.87	0.46	130.0	± 9,6 %
	551 5595 441, 53010/	Y	4.87	66.85	16.57		130.0	
		Z	4.98	66.97	16.68		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	Х	5.15	67.50	16.99	0.46	130.0	± 9.6 %
		Y	5.04	67.19	16.69		130.0	
		Z	5.16	67.32	16.80		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	5.09	67.46	16.91	0.46	130.0	± 9.6 %
***************************************		Y	4.96	67.12	16.59		130.0	
		Z	5.09	67.29	16.72		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	Х	5.14	67.60	17.04	0.46	130.0	± 9.6 %
		Y	5.02	67.28	16.73		130.0	
		Z	5.14	67.42	16.84		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	5.11	67.58	16.95	0.46	130.0	± 9.6 %
		Υ	4.99	67.24	16.64		130.0	
		Z	5.12	67.40	16.76		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	Х	5.05	67.59	16.96	0.46	130.0	± 9.6 %
		Υ	4.93	67.24	16.64		130.0	
		Z	5.06	67.40	16.76		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	5.00	67.53	16.87	0.46	130.0	± 9.6 %
		Y	4.88	67.16	16.53		130.0	
		Z	5.01	67.35	16.68		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.98	67.77	17.12	0.46	130.0	± 9.6 %
		Y	4.86	67.40	16.79		130.0	
		Z	4.99	67.58	16.92		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	Х	5.65	67.74	17.05	0.46	130.0	± 9.6 %
		Υ	5.54	67.42	16.77		130.0	
<del></del>		Z	5.65	67.58	16.87		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.86	68.37	17.35	0.46	130.0	± 9.6 %
		Y	5.74	68.03	17.05		130.0	
		Z	5.87	68.25	17.19		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.71	67.99	17.17	0.46	130.0	± 9.6 %
		Υ	5.59	67.67	16.88		130.0	
		Z	5.71	67.84	16.99		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	Х	5.80	67.99	17.09	0.46	130.0	± 9.6 %
		Y	5.68	67.66	16.80		130.0	
		Z	5.80	67.87	16.93		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5,88	68.27	17.35	0.46	130.0	± 9.6 %
		Y	5.76	67.95	17.07		130.0	
		Z	5.91	68.22	17.22		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	Х	5.65	67.69	17.05	0.46	130.0	± 9.6 %
		Y	5.55	67.38	16.78		130.0	
		Z	5.65	67.55	16.88		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.77	68.03	17.23	0.46	130.0	± 9.6 %
		Υ	5.67	67.75	16.97		130.0	
		Z	5.76	67.86	17.04		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.54	67.48	16.82	0.46	130.0	±9.6%
		Y	5.42	67.14	16.52		130.0	
		Z	5.54	67.37	16.67	1	130.0	<u> </u>

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0,	Х	4.81	66.46	16.48	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)							
		Y	4.70	66.13	16.17	******	130.0	
10608-	IEEE 802.11ac WiFi (20MHz, MCS1,	Z	4.81	66.25	16.27	0.40	130.0	
AAB	90pc duty cycle)		5.03	66.90	16.65	0.46	130.0	±9.6%
********		Y	4.90	66.55	16.34		130.0	
10609-	IEEE 900 44 co WIE: (00ML - NOO)	Z	5.02	66.68	16.44		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	Х	4.92	66.79	16.52	0.46	130.0	± 9.6 %
		<u> </u>	4.79	66.41	16.18		130.0	
10610-	IEEE 802.11ac WiFi (20MHz, MCS3,	Z	4.92	66.57	16.31		130.0	
AAB	90pc duty cycle)		4.97	66.94	16.67	0.46	130.0	± 9.6 %
		<u> </u>	4.84	66.57	16.34		130.0	
10611-	IEEE 802.11ac WiFi (20MHz, MCS4,	Z	4.97	66.72	16.46	0.40	130.0	
AAB	90pc duty cycle)		4.89	66.78	16.54	0.46	130.0	± 9.6 %
		Y	4.76	66.39	16.20	****	130.0	
10612-	IEEE 802.11ac WiFI (20MHz, MCS5,	Z	4.89	66.57	16.33		130.0	
AAB	90pc duty cycle)	X	4.92	66.95	16.59	0.46	130.0	±9.6%
-m-		Y	4.78	66.55	16.24		130.0	
10613-	IEEE 802.11ac WiFi (20MHz, MCS6,	Z	4.91	66.73	16.37	6.1-	130.0	
AAB	90pc duty cycle)	X	4.93	66.87	16.50	0.46	130.0	±9.6%
		Y	4.79	66.46	16.14		130.0	
10614-	JEET 902 (4 ca MITI /20MILL MOO7	Z	4.93	66.66	16.28		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	Х	4.85	67.03	16.71	0.46	130.0	± 9.6 %
	1	Y	4.72	66.63	16.36		130.0	
40045	IEEE COO da MIEL COO MICHAEL	Z	4.85	66.82	16.49		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	Х	4.90	66.61	16.33	0.46	130.0	± 9.6 %
		Y	4.76	66.22	15.98		130.0	
40040	IEEE COOK	Z	4.90	66.40	16.12		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.47	66.98	16.66	0.46	130.0	± 9.6 %
		Υ	5.36	66.66	16.38		130.0	
		Z	5.46	66.82	16.47		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.52	67.09	16.68	0.46	130.0	± 9.6 %
		Υ	5.42	66.80	16.41		130.0	
		Z	5.52	66.93	16.49		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.42	67.18	16,74	0.46	130.0	±9.6 %
		Y	5.31	66.84	16.45		130.0	
100:-		Z	5.41	67.00	16.54		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.45	67.00	16.59	0.46	130.0	± 9.6 %
		Υ	5.34	66.68	16.31		130.0	
		Z	5.44	66.82	16.40		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	Х	5.56	67.11	16.69	0.46	130.0	± 9.6 %
		Υ	5.44	66.75	16.39		130.0	
		Z	5.56	66.95	16.51		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.53	67.13	16.81	0.46	130.0	±9.6 %
		Υ	5.42	66.81	16.54		130.0	
	4	Z	5,53	66.98	16.63		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	Х	5.53	67.27	16.87	0.46	130.0	± 9.6 %
		Y	5,43	66.97	16.61		130.0	
		Z	5.52	67.09	16.67		130.0	

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10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.42	66.86	16.56	0.46	130.0	± 9.6 %
, , , ,	oopo daty oyoto)	TY	5.30	66,51	16.26		130.0	
		Z	5.42	66.73	16.39		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.61	67.03	16.70	0.46	130.0	± 9.6 %
		Y	5.50	66.72	16.43		130.0	
		Z	5.60	66.86	16.51		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	6.05	68.19	17.33	0,46	130.0	± 9.6 %
		Y	5.94	67.90	17.07		130.0	
*****		Z	6.01	67.90	17.08		130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.72	66.99	16.57	0.46	130.0	± 9.6 %
		Y	5.63	66.69	16.31		130.0	
		Z	5.71	66.84	16.40		130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.99	67.59	16.82	0.46	130.0	± 9.6 %
		Y	5,90	67.32	16.58		130.0	
40000		Z	5.97	67.39	16.62	0.40	130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.80	67.20	16.57	0.46	130.0	± 9.6 %
		Y	5.69	66.85	16.29		130.0	
40000	JEEE 000 44 - MIE: (0014) - MOCO	Z	5.79	67.05	16.40	0.40	130.0	1000
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	Х	5.88	67.25	16.59	0.46	130.0	± 9.6 %
		Y	5.77	66,92	16.31		130.0 130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.87 6.51	67.12 ′ 69.31	16.43 17.62	0.46	130.0	± 9.6 %
AAD	sope duty cycle)	Y	6.37	68,86	17.28		130.0	<u> </u>
		Z	6.46	69.04	17.39	ļ	130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.31	68.81	17.54	0.46	130.0	± 9.6 %
7010	- Jose daty dydio/	TY	6.17	68.39	17.24	İ	130.0	
,.,.,.		Ż	6.30	68.62	17.35		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.95	67.61	16.96	0.46	130.0	± 9.6 %
		Y	5.85	67.34	16.73		130.0	
	,	Z	5.94	67.45	16.78		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.89	67.42	16.71	0.46	130.0	± 9.6 %
		Y	5.75	67.01	16.39		130.0	
		Z	5.89	67.32	16.56		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Х	5.85	67.37	16.74	0.46	130.0	± 9.6 %
		Υ	5.73	67.02	16.46	ļ	130.0	
		Z	5.86	67.27	16.59		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5,75	66.78	16.20	0.46	130.0	± 9.6 %
		<u> </u>	5.62	66.39	15.89	1	130.0	
10000		Z	5.75	66.67	16.05	<u> </u>	130.0	1
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.13	67.38	16.66	0.46	130.0	±9.6 %
		Y	6.05	67.09	16.42	-	130.0	<del> </del>
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Z X	6.12 6.31	67.24 67.79	16.50 16.85	0.46	130.0 130.0	± 9.6 %
,,,,,	Jobo daty Oyoloj	Y	6.21	67.50	16.60		130.0	1
	<u> </u>	Ż	6.29	67.65	16.68		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.31	67.76	16.81	0.46	130.0	± 9.6 %
		Y	6.21	67.47	16.56		130.0	
		Z	6.29	67.60	16.64		130.0	1

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	Х	6.30	67.76	16.86	0.46	130.0	± 9.6 %
		Y	6.20	67.43	16.59		130.0	<del> </del>
		Z	6.29	67.63	16.70		130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.34	67.87	16.86	0.46	130.0	± 9.6 %
		Υ	6.22	67.50	16.57		130.0	
40044		Z	6.33	67.75	16.70		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.33	67.58	16.73	0.46	130.0	± 9.6 %
		Y	6.23	67.29	16.48		130.0	
10642-	IEEE 802.11ac WiFi (160MHz, MCS6,	Z	6.31	67.45	16.57	<u> </u>	130.0	
AAC	90pc duty cycle)	X	6.39	67.88	17.04	0.46	130.0	± 9.6 %
*****	4,4,4	Z	6.28	67.58	16.79		130.0	
10643-	IEEE 802.11ac WiFi (160MHz, MCS7,		6.38	67.76	16.88		130.0	
AAC	90pc duty cycle)	X	6.22	67.60	16.81	0.46	130.0	± 9.6 %
		Y	6.12	67.28	16.54		130.0	,
10644-	IEEE 802.11ac WiFi (160MHz, MCS8,	Z X	6.21	67.48	16.65		130.0	
AAC	90pc duty cycle)		6.47	68.34	17.21	0.46	130.0	±9.6 %
		Y	6.34	67.93	16.89		130.0	
10645-	IEEE 802.11ac WiFi (160MHz, MCS9,	Z	6.46	68.22	17.05		130.0	
AAC	90pc duty cycle)	X	6.86	69.01	17.48	0.46	130.0	± 9.6 %
		<u>Y</u>	6.84	68.95	17.35		130.0	
10646-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	Z	6.77	68.66	17.21		130.0	
AAD	QPSK, UL Subframe=2,7)	Х	39.97	118.78	39.16	9.30	60.0	± 9.6 %
		<u> </u>	36.64	117.33	38.51		60.0	
10647-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	Z	28.19	109.42	36.13		60.0	
AAC	QPSK, UL Subframe=2,7)	X	43.22	121.45	40.07	9.30	60.0	± 9.6 %
		Y	37.61	118.78	39.06		60.0	
10648-	CDMA2000 (4A.)	Z	29.77	111.44	36.87	*******	60.0	
AAA	CDMA2000 (1x Advanced)	X	0.92	67.44	13.60	0.00	150.0	± 9.6 %
		Y	0.67	63.31	10.51		150.0	
10050	LTE TOD (OFDMA EAGL)	Z	0.80	64.88	12.09		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.65	69.66	17.99	2.23	80.0	± 9.6 %
		Y	4.35	68.72	17.32		80.0	
40050	LTE TOP (OFPIA) (OLUM	<u>  Z</u>	4.56	68.93	17.55		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	×	5.05	68.61	17.89	2.23	80.0	± 9.6 %
		Υ	4.81	67.90	17.37		80.0	
10654-	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1.	Z	5.01	68.17	17.57		80.0	
AAB	Clipping 44%)	X	4.97	68.24	17.87	2.23	80.0	± 9.6 %
		<u>Y</u>	4.75	67.55	17.37		80.0	
10655-	LITE TOD (OEDMA COMUL E TAGE!	Z	4.94	67.85	17.56		80.0	
AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	5.03	68.27	17.91	2.23	80.0	± 9.6 %
		Y	4.81	67.56	17.41		0.08	
10658- AAA	Pulse Waveform (200Hz, 10%)	X	4.99 13.25	67.90 86.83	17.61 23.62	10.00	80.0 50.0	± 9.6 %
		Y	14.38	00.00	22.44		FC 0	
		Z	11.47	88.09	23.44	***************************************	50.0	
10659-	Pulse Waveform (200Hz, 20%)	X		83.98	22.82	6.00	50.0	1000
AAA	. 3.55 11410101111 (2001 12, 2070)		55.89	109.63	28.77	6.99	60.0	± 9.6 %
		Y	73.21	111.71	28.47		60.0	
	<u> </u>	Z	23.49	96.54	25.38		60.0	

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10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	116.44	28.38	3.98	80.0	± 9.6 %
		Υ	100.00	113.18	26.58		80.0	
		Z	100.00	116.19	28.39		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	100.00	118,35	27.71	2.22	100.0	± 9.6 %
		Y	100.00	112.59	24.89		100.0	
		Z	100.00	116.83	27.13		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	100.00	126.67	29.16	0.97	120.0	± 9.6 %
		Y	100.00	111.31	22.51		120.0	
		Z	100.00	120.40	26.63		120.0	

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

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





S Schweizerischer Kalibrierdienst
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Accreditation No.: SCS 0108

Client

PC Test

Certificate No: EX3-7308_Aug17

#### CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7308

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:

August 16, 2017

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-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference Probe ES3DV2	SN: 3013	31-Dec-16 (No. ES3-3013_Dec16)	Dec-17
DAE4	SN: 660	7-Dec-16 (No. DAE4-660_Dec16)	Dec-17
		1	
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-16)	In house check: Oct-17

Calibreted by:

Leif Klysner

Laboratory Technician

Signature

Sulfffff

Sulfffff

Approved by:

Kalja Pokovic

Technical Manager

Issued: August 16, 2017

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

Certificate No: EX3-7308_Aug17

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### Calibration Laboratory of

Schmid & Partner
Engineering AG
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S Schweizerischer Kalibrierdienst
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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Glossarv:

TSL

tissue simulating liquid sensitivity in free space

NORMx,y,z ConvF

sensitivity in TSL / NORMx,y,z

DCP CF diode compression point crest factor (1/duty_cycle) of the RF signal

A, B, C, D

modulation dependent linearization parameters

Polarization φ

φ rotation around probe axis

Polarization 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

Certificate No: EX3-7308_Aug17

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 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
   NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

## Probe EX3DV4

SN:7308

Manufactured:

March 11, 2014

Calibrated:

August 16, 2017

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7308

**Basic Calibration Parameters** 

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ² ) ^A	0.49	0.60	0.44	± 10.1 %
DCP (mV) ⁸	97.0	91.7	98.5	

**Modulation Calibration Parameters** 

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc [±] (k=2)
0	CW	Х	0.0	0.0	1.0	0.00	134.5	±3.3 %
-		Y	0.0	0.0	1.0		130.8	
		Z	0.0	0.0	1.0		149.9	

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	46.65	351.1	36.16	14.68	0.000	5.088	0.834	0.399	1.005
Y	52.88	402.1	36.74	19.55	0.309	5.100	0.477	0.605	1.007
Z	36.70	273.3	35.48	9.322	0.000	5.034	0.373	0.314	1.002

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%.

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

⁸ Numerical linearization parameter: uncertainty not required.

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

EX3DV4- SN:7308 August 16, 2017

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7308

#### 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)
5250	35.9	4.71	5.25	5.25	5.25	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.83	4.83	4.83	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.11	5.11	5.11	0.40	1.80	± 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. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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 ConvE uncertainty for indicated target tissue parameters.

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.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7308

#### 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	10.39	10.39	10.39	0.54	0.85	± 12.0 %
835	55.2	0.97	10.21	10.21	10.21	0.47	0.84	± 12.0 %
1750	53.4	1.49	8.24	8.24	8.24	0.41	0.84	± 12.0 %
1900	53.3	1.52	7.96	7.96	7.96	0.37	0.80	± 12.0 %
2300	52.9	1.81	7.77	7.77	7.77	0.39	0.86	± 12.0 %
2450	52.7	1.95	7.66	7.66	7.66	0.35	0.85	± 12.0 %
2600	52.5	2.16	7.46	7.46	7.46	0.31	0.95	± 12.0 %
5250	48.9	5.36	4.84	4.84	4.84	0.35	1.90	± 13.1 %
5600	48.5	5.77	4.23	4.23	4.23	0.40	1.90	± 13.1 %
5750	48.3	5.94	4.50	4.50	4.50	0.40	1.90	± 13.1 %

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. Above 5 GHz frequency validity can be extended to ± 110 MHz.

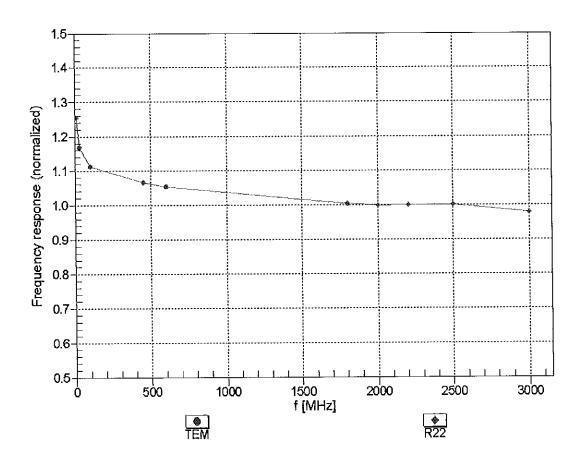
At frequencies below 3 GHz, the validity of tissue parameters (s and o) can be relaxed to ± 10% if liquid compensation formula is applied to

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

the ConvF uncertainty for indicated target tissue parameters.

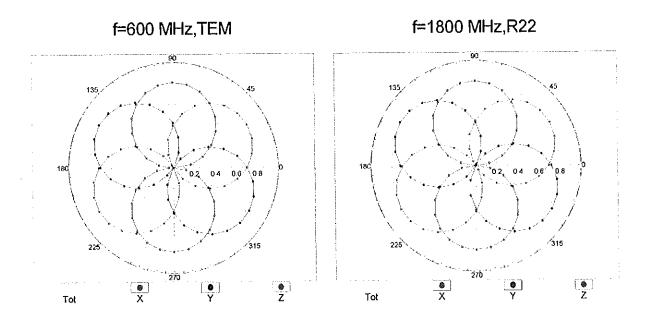
Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

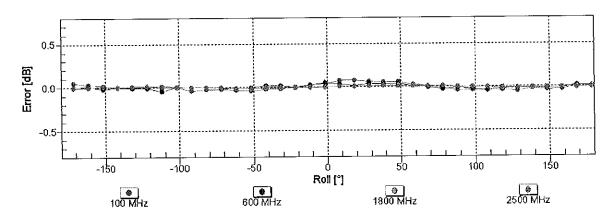
# Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

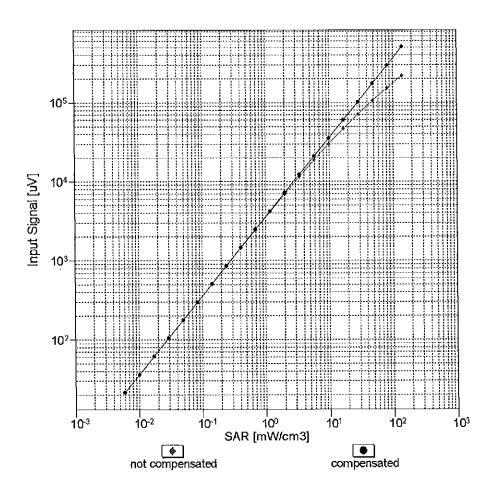
## Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

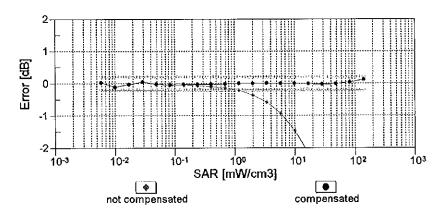




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

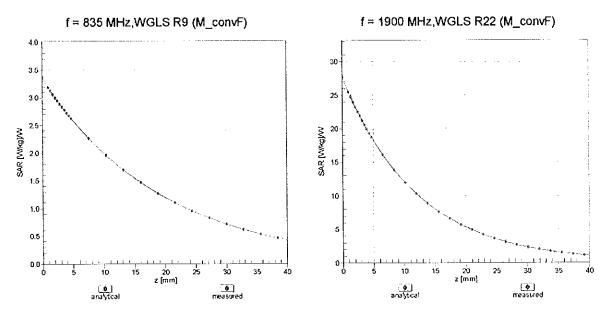
## Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



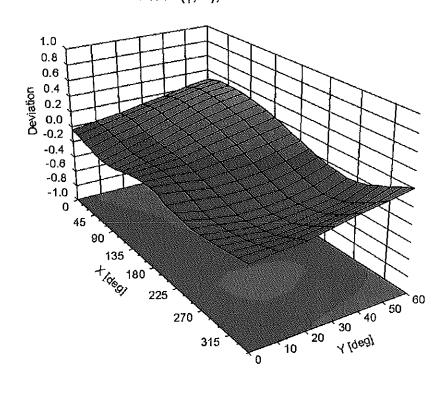


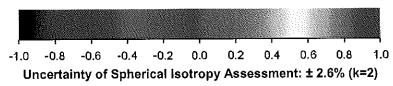
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

### **Conversion Factor Assessment**



Deviation from Isotropy in Liquid Error  $(\phi, \vartheta)$ , f = 900 MHz





## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7308

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	108.4
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:7308

Appendix: Modulation Calibration Parameters

מוט	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	134.5	± 3.3 %
		Υ	0.00	0.00	1.00		130.8	
		Z	0.00	0.00	1.00		149.9	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	2.82	69.38	11.47	10.00	20.0	± 9.6 %
		Υ	8.85	81.60	16.75		20.0	
		Z	1.57	63.55	8.34		20.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	1.10	68.34	15.94	0.00	150.0	± 9.6 %
		Y	1.03	66.61	14.91		150.0	
40040		Z	1.05	68.21	15.74	0.44	150.0	. 0 0 0/
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.19	64.20	15.65	0.41	150.0	± 9.6 %
		Y Z	1.20 1.16	63.83 63.91	15.29 15.33		150.0 150.0	
10013-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.89	66.77	17.26	1.46	150.0	± 9.6 %
CAB	OFDM, 6 Mbps)	Υ	4.97	66.66	17.21	1.40	150.0	1 3.0 %
		Z	4.71	66.76	17.21		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	100.00	115.21	27.27	9.39	50.0	± 9.6 %
D/ (O		Y	100.00	118.99	29.62		50.0	
······································		Z	100.00	108.16	23.75		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	Х	100.00	114.49	26.98	9.57	50.0	± 9.6 %
		Υ	100.00	118.59	29.46		50.0	
		Z	100.00	107.44	23.48		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Х	100.00	117.36	27.41	6.56	60.0	± 9.6 %
		Y	100.00	118.20	28.43		60.0	
10000	FROM FROM (TRIM APPOINT THE AP	Z	100.00	109.72	23.49	40.57	60.0	1000
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	9.43	102.43	43.37 33.21	12.57	50.0	± 9.6 %
		Z	5.76 6.64	81.81 89.92	37.39		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	12.23	103.58	38.33	9.56	60.0	±9.6%
DAC		Y	13.89	103.56	37.54		60.0	<u> </u>
	1000	Ż	6.87	89.09	32.73		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	121.12	28.38	4.80	80.0	± 9.6 %
		Υ	100.00	119.35	28.26		80.0	
		Z	100.00	113.58	24.47		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	126.40	29.97	3.55	100.0	± 9.6 %
		Υ	100.00	121.68	28.61		100.0	
		Z	100.00	119.83	26.46	7.00	100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	6.36	85.88	30.18	7.80	80.0	± 9.6 %
		Y	7.77	88.44	30.64		80.0 80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	4.37 100.00	77.58 116.71	26.51 26.74	5.30	70.0	± 9.6 %
UAVA		Y	100.00	116.86	27.45		70.0	
		Ż	100.00	108.46	22.53		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	130.68	30.26	1.88	100.0	±9.6 %
		Y	100.00	122.76	27.68		100.0	
		Z	100.00	121.33	25.72		100.0	

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10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	T V	1 400 00	T :		<del>-</del>		
CAA	include the second (GFSK, DHS)	X	100.00	146.47	35.43	1.17	100.0	± 9.6 %
		Y	100.00	130.05	29.64		100.0	
10033-	IEEE 900 45 4 Divisionals (DUA DODO)	Z	100.00	142.38	32.95	<u> </u>	100.0	
CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Х	100.00	133.81	36.67	5.30	70.0	± 9.6 %
		Y	100.00	132.56	36.57		70.0	
40004		Z	18.79	102.95	27.19		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	7.76	92.37	23.91	1.88	100.0	± 9.6 %
		Υ	6.00	87.65	22.68		100.0	<u> </u>
40005		Z	3.22	78.87	18.00		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	3.37	81.04	19.87	1.17	100.0	± 9.6 %
<del></del>		Y	2.89	77.85	18.94		100.0	
40000		Z	2.06	74.00	15.93		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	100.00	134.35	36.91	5.30	70.0	± 9.6 %
		Υ	100.00	133.01	36.79		70.0	-
4000=	<u> </u>	Z	38.41	113.99	30.14		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	6.72	90.40	23.29	1.88	100.0	± 9.6 %
-		Y	5.52	86.51	22.28		100.0	
1000-		Z	2.77	77.09	17.35		100.0	<del></del>
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	3.40	81.53	20.18	1.17	100.0	± 9.6 %
		Y	2.93	78.34	19.24		100.0	
		Z	2.07	74.35	16.21		100.0	·
10039- CAB	CDMA2000 (1xRTT, RC1)	X	2.05	73.74	16.48	0.00	150.0	± 9.6 %
		Υ	1.78	70.97	15.59		150.0	
		Z	1.68	71.87	14.68		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	Х	100.00	111.92	25.18	7.78	50.0	± 9.6 %
		Y	100.00	114.62	26.97		50.0	
		Z	100.00	105.38	21.87	·	50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.00	97.13	0.41	0.00	150.0	± 9.6 %
		Υ	0.00	93.19	1.28		150.0	
		Z	0.01	94.96	0.54		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	100.00	111.98	26.96	13.80	25.0	± 9.6 %
		Υ	100.00	121.05	31.60		25.0	
		Ζ	34.07	91.91	20.28		25.0	-
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	Х	1284.72	142.21	32.21	10.79	40.0	± 9.6 %
		Y	100.00	117.51	29.18		40.0	
		Z	145.96	109.32	23.74		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	128.20	35.15	9.03	50.0	± 9.6 %
		Υ	100.00	128.83	35.96	<del></del>	50.0	
		Z	100.00	122.10	31.77		50.0	<del></del>
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.71	78.88	26.31	6.55	100.0	± 9.6 %
		Υ	5.67	81.33	26.92		100.0	
		Z	3.54	73.15	23.60		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Х	1.24	65.47	16.42	0.61	110.0	± 9.6 %
		Y	1.27	65.23	16.10	· -	110.0	
		Ž	1.17	64.77	15.84		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	144.38	38.50	1.30	110.0	± 9.6 %
		Y	100.00	138.88	36.40		1100	
		Ż	13.09	112.30			110.0	
			10.00	112.30	30.84		110.0	

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	Х	4.05	88.33	25.97	2.04	110.0	± 9.6 %
		Y	4.75	88.86	25.68		110.0	
		Z	2.16	77.73	21.68		110.0	
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.69	66.76	16.65	0.49	100.0	± 9.6 %
		Υ	4.76	66.60	16.58		100.0	
		Z	4.53	66.78	16.51		100.0	
10063- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	Х	4.71	66.86	16.76	0.72	100.0	± 9.6 %
		Υ	4.78	66.72	16.70		100.0	
		Z	4.54	66.86	16.60		100.0	
10064- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.99	67.12	16.99	0.86	100.0	± 9.6 %
		Y	5.09	67.02	16.95		100.0	
		Z	4.78	67.06	16.80		100.0	
10065- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.86	67.02	17.11	1.21	100.0	± 9.6 %
		Υ	4.96	66.95	17.08		100.0	
40000		Z	4.65	66.90	16.87		100.0	
10066- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.88	67.05	17.29	1.46	100.0	± 9.6 %
		Y	4.99	66.99	17.27		100.0	
1005=		Z	4.65	66.88	17.02		100.0	
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.16	67.22	17.75	2.04	100.0	± 9.6 %
		Y	5.27	67.12	17.71		100.0	
40000	1555 000 44-7. MISS 5 011. (OFD) 40	Z	4.93	67.13	17.49	0.55	100.0	1000
10068- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.20	67.26	17.98	2.55	100.0	± 9.6 %
		Υ	5.34	67.28	18.00		100.0	
<u>, </u>		Z	4.95	67.02	17.64		100.0	
10069- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.28	67.26	18.18	2.67	100.0	± 9.6 %
		Y	5.42	67.23	18.17		100.0	
		Z	5.02	67.05	17.83		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.98	66.86	17.58	1.99	100.0	± 9.6 %
		Υ	5.07	66.77	17.55		100.0	
		Z	4.79	66.80	17.35		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	Х	4.95	67.19	17.81	2.30	100.0	± 9.6 %
		Υ	5.06	67.16	17.80		100.0	
		Z	4.74	67.03	17.53		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.00	67.34	18.16	2.83	100.0	± 9.6 %
		Y	5.12	67.33	18.16		100.0	
		Z	4.79	67.17	17.85	0.00	100.0	1000
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.97	67.20	18.31	3.30	100.0	± 9.6 %
		Y	5.10	67.22	18.33		100.0	-
		Z	4.78	67.07	17.99	0.00	100.0	1000
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.00	67.30	18.63	3.82	90.0	± 9.6 %
		Y	5.15	67.40	18.70		90.0	ļ
10076-	IEEE 802.11g WiFi 2.4 GHz	Z X	4.78 5.00	67.05 67.05	18.23 18.74	4.15	90.0	± 9.6 %
CAB	(DSSS/OFDM, 48 Mbps)	1	F 44	07.40	10.70	ļ	00.0	<u> </u>
		Y	5.14	67.12	18.78		90.0	1
40077	LEEE DOO 44 c MEET O 4 OU	Z	4.81	66.90	18.39	4.20	90.0	1060/
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.02	67.11	18.84	4.30	90.0	± 9.6 %
		Y	5.16	67.16	18.87	ļ	90.0	+
		Z	4.84	66.97	18.50		90.0	<u> </u>

10081- CAB	CDMA2000 (1xRTT, RC3)	X	0.91	67.10	13.23	0.00	150.0	± 9.6 %
		Y	0.87	65.55	12.69	+	150.0	<del> </del>
		Z	0.76	65.80	11.60	<del></del>	150.0	<del> </del>
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	Х	0.67	60.00	4.34	4.77	80.0	± 9.6 %
		Y_	0.83	60.00	4.98		80.0	
10000	ODDO FDD (FDL)	Z	1.32	62.68	4.53		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	117.37	27.43	6.56	60.0	± 9.6 %
		Y	100.00	118.23	28.46		60.0	
10097-	UMTS-FDD (HSDPA)	Z	100.00	109.70	23.50	ļ	60.0	
CAB	OMFOTED (HODEA)	X	1.89	68.18	16.03	0.00	150.0	± 9.6 %
		$\frac{1}{Z}$	1.82	67.06	15.47	<u> </u>	150.0	
10098-	UMTS-FDD (HSUPA, Subtest 2)	1 ×	1.87	68.73	15.97		150.0	
CAB	(HOOFA, Oublest 2)	^   Y	1.85 1.78	68.15	16.01	0.00	150.0	± 9.6 %
		<u>                                   </u>		67.01	15.43	ļ	150.0	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	1.83 12.41	68.68 103.93	15.95		150.0	
DAC		Y	14.05		38.44	9.56	60.0	± 9.6 %
		$\frac{1}{Z}$	6.94	103.81	37.62	<u> </u>	60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	1 ×	3.20	89.30 70.68	32.81	0.00	60.0	
CAD	MHz, QPSK)	^   Y	3.15		16.98	0.00	150.0	± 9.6 %
		+ <u>'</u>	3.05	69.96 70.44	16.53		150.0	
10101-	LTE-FDD (SC-FDMA, 100% RB, 20	<del>Z</del>	3.03	67.67	16.91	0.00	150.0	
CAD	MHz, 16-QAM)	Y			16.10	0.00	150.0	± 9.6 %
			3.29	67.34	15.87		150.0	
10102-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	3.15 3.37	67.56 67.61	16.02 16.17	0.00	150.0 150.0	± 9.6 %
CAD	MHz, 64-QAM)	Y	3.39	67.30	15.96			± 9.0 %
		Z	3.26	67.54	16.10		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.70	77.76	21.71	3.98	150.0 65.0	± 9.6 %
		Y	7.25	78.01	21.66		65.0	
		Z	5.31	74.49	20.24		65.0	<u> </u>
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	6.39	74.88	21.30	3.98	65.0	± 9.6 %
		Y	7.01	75.63	21.49		65.0	
10105-	LTE TOP (OC TRUE	Z	5.41	72.53	20.08		65.0	
CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.93	73.22	20.87	3.98	65.0	± 9.6 %
		Y	6.37	73.62	20.93		65.0	
10108-	LTE EDD (SC EDMA 4000) DD 40	Z	4.98	70.66	19.52		65.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	2.79	69.92	16.81	0.00	150.0	± 9.6 %
		Y	2.76	69.17	16.35		150.0	
10109-	LTE-FDD (SC-FDMA, 100% RB, 10	Z	2.63	69.76	16.75		150.0	
CAE	MHz, 16-QAM)	X	2.93	67.55	16.01	0.00	150.0	± 9.6 %
		Y	2.94	67.14	15.76		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Z	2.80	67.54 69.10	15.90 16.46	0.00	150.0 150.0	± 9.6 %
		Y	2.25	68.23	1E 00		450 -	
		Z	2.13	69.06	15.96		150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.65	68.45	16.32 16.32	0.00	150.0 150.0	± 9.6 %
		Y	2.64	67.76	16.00			
		z	2.55	68.78	16.00		150.0	
<u>-</u>			2.00	00.76	16.20		150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.05	67.53	16.06	0.00	150.0	± 9.6 %
		Υ	3.07	67.13	15.82		150.0	
		Z	2.92	67.58	15.97		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	2.80	68.56	16.43	0.00	150.0	± 9.6 %
		Y	2.80	67.90	16.13		150.0	
		Z	2.69	68.93	16.32		150.0	
10114- CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.15	67.26	16.54	0.00	150.0	± 9.6 %
		Y	5.19	67.08	16.42		150.0	
		Z	4.99	67.20	16.47		150.0	
10115- CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.43	67.37	16.60	0.00	150.0	± 9.6 %
		Y	5.52	67.34	16.56		150.0	
		Z	5.24	67.27	16.51		150.0	
10116- CAB	iEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	5.24	67.44	16.56	0.00	150.0	± 9.6 %
		Y	5.30	67.32	16.46		150.0	
		Ζ	5.08	67.39	16.50		150.0	
10117- CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.11	67.11	16.48	0.00	150.0	± 9.6 %
		Y	5.16	66.99	16.39		150.0	
		Ζ	4.99	67.15	16.47		150.0	
10118- CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-	X	5.51	67.58	16.71	0.00	150.0	± 9.6 %
	·	Y	5.61	67.54	16.67		150.0	
		Z	5.31	67.44	16.61		150.0	
10119- CAB	IEEE 802,11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.22	67.40	16.54	0.00	150.0	± 9.6 %
		Y	5.27	67.25	16.44		150.0	
		Z	5.07	67.38	16.51		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.41	67.63	16.10	0.00	150.0	± 9.6 %
		Y	3.43	67.31	15.88		150.0	
		Z	3.28	67.57	16.02		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.53	67.71	16.25	0.00	150.0	± 9.6 %
		Y	3.55	67.40	16.05		150.0	
		Z	3.40	67.71	16.20		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	2.05	69.21	16.15	0.00	150.0	± 9.6 %
		Y	2.02	68.14	15.65		150.0	
		Ζ	1.90	69.18	15.79		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	2.53	69.32	16.06	0.00	150.0	± 9.6 %
		Y	2.50	68.40	15.76		150.0	
		Z	2.39	69.52	15.59		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	2.28	66.94	14.41	0.00	150.0	± 9.6 %
		Y	2.31	66.41	14.31		150.0	
		Z	2.06	66.49	13.57		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	1.26	65.57	12.06	0.00	150.0	± 9.6 %
		Y	1.33	65.51	12.47		150.0	
		Z	0.90	62.72	9.31		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	1.87	65.71	11.26	0.00	150.0	± 9.6 %
		Y	2.34	67.84	13.03		150.0	ļ
		Z	1.05	60.97	7.27		150.0	<u> </u>
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.17	67.47	12.23	0.00	150.0	± 9.6 %
		Y	2.79	70.16	14.23	1	150.0	
			1 4	, 0.10	, , , , , ,	1	100.0	1

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.93	67.61	16.06	0.00	150.0	± 9.6 %
		Y	2.95	67.20	15.81		150.0	
		Z	2.81	67.60	15.95	·	150.0	1
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	3.06	67.58	16.10	0.00	150.0	± 9.6 %
		Y	3.08	67.18	15.86		150.0	
10151		Z	2.93	67.64	16.01		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	7.47	81.50	23.31	3.98	65.0	± 9.6 %
		Y	8.13	81.64	23.19		65.0	
10152-	LTC TOD (OA FOLL)	Z	5.82	78.02	21.74		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.96	75.09	21.13	3.98	65.0	± 9.6 %
		Y	6.59	75.82	21.34		65.0	
10153-	LTE TOD (OO EDIN 500) ED CONT	Z	4.95	72.53	19.69		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	6.33	76.00	21.87	3.98	65.0	±9.6 %
		Υ	6.98	76.72	22.08		65.0	
10151	LTC FDD /00 FDM: Tool FD	Z	5.31	73.57	20.52		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.32	69.50	16.70	0.00	150.0	± 9.6 %
·		<u> Y</u>	2.30	68.63	16.21		150.0	
40455	LTE EDD (OO ED)	Z	2.17	69.43	16.55		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.65	68.47	16.34	0.00	150.0	± 9.6 %
		Y	2.64	67.77	16.01		150.0	
40450		Z	2.55	68.82	16.23		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.90	69.38	15.98	0.00	150.0	± 9.6 %
		Υ	1.87	68.22	15.49		150.0	
40455		Z	1.73	69.10	15.35		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.13	67.61	14.49	0.00	150.0	± 9.6 %
		Y	2.14	66.94	14.37		150.0	
40450		Z	1.88	66.88	13.39		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	2.80	68.62	16.48	0.00	150.0	± 9.6 %
<u> </u>		Υ	2.80	67.95	16.18		150.0	
		Z	2.70	69.02	16.37		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	2.24	68.05	14.76	0.00	150.0	± 9.6 %
		Υ	2.25	67.38	14.65		150.0	
10100		Z	1.97	67.26	13.62		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.79	68.96	16.56	0.00	150.0	± 9.6 %
		Y	2.78	68.29	16.16		150.0	
40404	LTC FDD (c)	Z	2.67	69.03	16.52		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.95	67.54	16.03	0.00	150.0	± 9.6 %
		Υ	2.97	67.10	15.79		150.0	
10100	LTC FDD (00 FT)	Z	2.82	67.63	15.91		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	3.06	67.69	16.14	0.00	150.0	± 9.6 %
<del> </del>		Υ	3.08	67.22	15.89		150.0	
10100	LTC FDD (60 FD)	Ζ	2.94	67.84	16.05		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.60	69.71	19.22	3.01	150.0	± 9.6 %
		Υ	3.76	69.53	19.10	-	150.0	
40407	LITE FOR 100	Z	3.14	68.43	18.52		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	4.49	72.92	19.79	3.01	150.0	± 9.6 %
O/ 1E	1							
		Υ	4.71	72.48	19.58		150.0	-

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10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	4.99	75.19	21.10	3.01	150.0	± 9.6 %
		Y	5.19	74.57	20.82		150.0	
		Z	4.03	73.14	20.19		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	3.02	69.31	19.06	3.01	150.0	± 9.6 %
<del></del>		Υ	3.27	69.70	19.15		150.0	
		Z	2.51	66.78	17.76		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.24	75.66	21.52	3.01	150.0	± 9.6 %
		Y	4.60	75.59	21.37		150.0	
		Z	3.08	71.28	19.66		150.0	1
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	3.48	71.52	18.79	3.01	150.0	± 9.6 %
		Y	3.80	71.54	18.73		150.0	
		Z	2.62	68.04	17.18		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	9.86	97.03	31.31	6.02	65.0	± 9.6 %
		Y	11.94	97.60	31.03		65.0	
		Z	3.49	77.54	23.86		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	35.90	116.24	34.55	6.02	65.0	± 9.6 %
		Y	33.36	111.72	33.12		65.0	
		Z	6.56	87.15	25.45		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	21.48	105.16	30.85	6.02	65.0	± 9.6 %
		Y	20.65	101.59	29.68		65.0	
		Z	4.70	80.63	22.56		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	2.98	69.02	18.83	3.01	150.0	± 9.6 %
O, LL	- Groty	Y	3.23	69.39	18.90		150.0	
		Z	2.49	66.55	17.55		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	4.24	75.68	21.53	3.01	150.0	± 9.6 %
0, 12		Υ	4.61	75.61	21.38		150.0	
		Z	3.09	71.30	19.67		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.01	69.16	18.92	3.01	150.0	± 9.6 %
0,10	at ony	Y	3.26	69.54	19.00		150.0	
		Ż	2.50	66.65	17.62		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	4.21	75.48	21.42	3.01	150.0	± 9.6 %
		Y	4.56	75.38	21.26		150.0	]
***		Z	3.07	71.19	19.60		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.83	73.49	20.03	3.01	150.0	± 9.6 %
		Y	4.16	73.42	19.91		150.0	
		Z	2.83	69.59	18.31		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.47	71.46	18.75	3.01	150.0	± 9.6 %
		Y	3.79	71.47	18.68		150.0	
		Z	2.62	68.01	17.15	ļ	150.0	1
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	3.00	69.14	18.91	3.01	150.0	± 9.6 %
		Y	3.26	69.52	18.99		150.0	1
	_	Z	2.50	66.64	17.62	1	150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	4.20	75.46	21.41	3.01	150.0	± 9.6 %
		Υ	4.55	75.36	21.25		150.0	
		Z	3.07	71.17	19.59		150.0	<u> </u>
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.46	71.44	18.74	3.01	150.0	± 9.6 %
<del></del>		TY	3.78	71.45	18.67		150.0	
1		Ż	2.62	68.00	17.14	1	150.0	1

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.01	69.18	18.93	3.01	150.0	± 9.6 %
		Y	3.27	69.56	19.01	<del>                                     </del>	150.0	+
		Z	2.51	66.67	17.63	<del>                                     </del>	150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	4.22	75.53	21.45	3.01	150.0	± 9.6 %
		Y	4.57	75.42	21.28	- "-	150.0	
10100		Z	3.08	71.23	19.63		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.48	71.51	18.77	3.01	150.0	± 9.6 %
		Y	3.80	71.51	18.70		150.0	
40407	177 500 (0.0 000)	Z	2.63	68.05	17.17		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.02	69.24	19.00	3.01	150.0	± 9.6 %
	<u> </u>	Y	3.28	69.61	19.07		150.0	
10188-	LTE EDD (OO EDLIA A DD A A A DD	Z	2.52	66.73	17.71		150.0	
CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	4.35	76.17	21.80	3.01	150.0	± 9.6 %
		Y	4.72	76.08	21.65		150.0	
10189-	LTE EDD (OC ED) (A FEE COME)	Z	3.15	71.69	19.93		150.0	
AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	3.56	71.93	19.04	3.01	150.0	± 9.6 %
<del></del>		Y	3.88	71.93	18.97		150.0	
10193-	JEEE 202 44 - 45T Q	Z	2.67	68.37	17.41		150.0	
CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.54	66.68	16.24	0.00	150.0	± 9.6 %
		<u> </u>	4.59	66.47	16.13		150.0	
40404		Z	4.40	66.85	16.19		150.0	
10194- CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.70	66.99	16.36	0.00	150.0	± 9.6 %
		Υ	4.77	66.80	16.26		150.0	
10/0-		Z	4.55	67.09	16.33		150.0	<del> </del>
10195- CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.74	67.02	16.38	0.00	150.0	± 9.6 %
		Υ	4.81	66.83	16.27		150.0	İ
		Z	4.58	67.11	16.34		150.0	
10196- CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	Х	4.54	66.74	16.25	0.00	150.0	± 9.6 %
<del> </del>		Υ	4.60	66.55	16.16		150.0	
		Z	4.39	66.85	16.19		150.0	
10197- CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	Х	4.72	67.01	16.37	0.00	150.0	± 9.6 %
		Υ	4.78	66.83	16.27		150.0	
40400		<u>Z</u>	4.56	67.10	16.33		150.0	
10198- CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.75	67.04	16.39	0.00	150.0	± 9.6 %
		Υ	4.81	66.85	16.28		150.0	
10010	IEEE 000 44 (UE)	Z	4.58	67.11	16.34		150.0	
10219- CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	Х	4.49	66.76	16.22	0.00	150.0	± 9.6 %
		Υ	4.55	66.56	16.12		150.0	
40000	IEEE OOD 44 WITH A TO	Z	4.34	66.89	16.16		150.0	
10220- CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	Х	4.71	66.98	16.36	0.00	150.0	± 9.6 %
		Y	4.78	66.81	16.26		150.0	
10224		Z	4.55	67.06	16.32		150.0	
10221- CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	Х	4.75	66.96	16.37	0.00	150.0	± 9.6 %
		Υ	4.82	66.78	16.27		150.0	
40000	LEFE 000 44	Z	4.59	67.05	16.33		150.0	
10222- CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	Х	5.08	67.12	16.48	0.00	150.0	± 9.6 %
		Y	5.14	67.00	16.39			
				07.00	10.39		150.0	

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10223- CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.38	67.33	16.60	0.00	150.0	± 9.6 %
•••		Y	5.45	67.20	16.51		150.0	
		Z	5.23	67.33	16.56		150.0	
10224- CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	Х	5.13	67.23	16.46	0.00	150.0	± 9.6 %
		Υ	5.19	67.11	16.37		150.0	
		Z	4.99	67.25	16.44		150.0	
10225- CAB	UMTS-FDD (HSPA+)	Х	2.82	66.29	15.44	0.00	150.0	± 9.6 %
		Υ	2.85	65.89	15.31		150.0	
		Z	2.69	66.42	15.13		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	40.58	118.73	35.31	6.02	65.0	± 9.6 %
		Υ	36.88	113.76	33.77		65.0	
		Z	6.94	88.26	25.92		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	36.33	114.29	33.35	6.02	65.0	± 9.6 %
		Υ	31.30	108.87	31.78		65.0	
		Z	6.95	87.06	24.80		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	13.65	104.05	33.59	6.02	65.0	± 9.6 %
		Υ	18.81	107.23	34.08		65.0	
		Z	4.50	82.80	25.97		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	36.18	116.36	34.59	6.02	65.0	± 9.6 %
		Y	33.58	111.82	33.15		65.0	
		Z	6.61	87.25	25.49		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	32.38	112.10	32.69	6.02	65.0	± 9.6 %
0,10	Str Wil	Υ	28.70	107.19	31.24		65.0	
		Z	6.54	85.97	24.36		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	12.84	102.68	33.09	6.02	65.0	± 9.6 %
0710	- G. O.L.	Y	17.62	105.78	33.56		65.0	
		Z	4.35	82.09	25.62		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	36.15	116.36	34.59	6.02	65.0	± 9.6 %
<del></del>		Y	33.55	111.82	33.15		65.0	
		Z	6.59	87.23	25.48		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	32.28	112.07	32.68	6.02	65.0	± 9.6 %
0710		Y	28.65	107.18	31.24		65.0	
		Z	6.52	85.93	24.35		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	12.22	101.47	32.58	6.02	65.0	± 9.6 %
		İΥ	16.65	104.42	33.04		65.0	
		Z	4.24	81.51	25.28		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	36.31	116.46	34.62	6.02	65.0	± 9.6 %
<u> </u>		Υ	33.66	111.90	33.18		65.0	
		Z	6.60	87.26	25.49		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	33.06	112.44	32.77	6.02	65.0	± 9.6 %
		Y	29.12	107.43	31.30		65.0	
		Z	6.60	86.11	24.40		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	12.90	102.82	33.13	6.02	65.0	± 9.6 %
J. 10		Y	17.72	105.93	33.61	1	65.0	1
		Z	4.35	82.12	25.64	1	65.0	1
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	36.09	116.34	34.59	6.02	65.0	± 9.6 %
OAD	10-scale)	Y	33.52	111.82	33.15	<del> </del>	65.0	
		<u>                                   </u>			25.47	<b>†</b>	65.0	<del>                                     </del>
		1 4	6.58	87.20		<u> </u>	0.00	Д

CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	32.17	112.03	32.67	6.02	65.0	± 9.6 %
		Y	28.59	107.16	31.23		65.0	<del> </del>
10010		Z	6.49	85.89	24.34	<del>                                     </del>	65.0	<del>                                       </del>
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	12.85	102.75	33.11	6.02	65.0	± 9.6 %
<u> </u>		Y	17.65	105.86	33.59		65.0	
10241-	LTC TOD (OC FOLIA FOC)	Z	4.34	82.09	25.63		65.0	
CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	8.52	83.40	26.72	6.98	65.0	± 9.6 %
<del> </del>		Y	9.34	83.46	26.63		65.0	<u> </u>
10242-	LTE TDD (CO EDM), FOOL DD. ( ) )	Z	6.49	79.39	24.77		65.0	
CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	7.72	81.29	25.79	6.98	65.0	± 9.6 %
		Y	8.22	80.66	25.42		65.0	
10243-	LTC TOD (OO COM)	Z	5.72	76.85	23.63		65.0	T
CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	×	5.95	76.72	24.82	6.98	65.0	± 9.6 %
		Y	6.41	76.67	24.65		65.0	<u> </u>
10244-	LITE TOD (OO FD) (1 FOO) FO	Z	4.75	73.34	22.98		65.0	<del>                                     </del>
CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	6.67	78.45	19.67	3.98	65.0	± 9.6 %
		Υ	8.20	80.91	21.14		65.0	
10245-	LTE TOP (00 FOLL)	Z	3.50	69.23	14.35		65.0	
CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	6.39	77.48	19.23	3.98	65.0	± 9.6 %
		Y	7.92	80.07	20.76		65.0	<del>                                     </del>
10246-	LIE TOP (OC == its == i	Z	3.42	68.65	14.03		65.0	
CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	×	8.15	85.97	22.95	3.98	65.0	± 9.6 %
		Υ	9.24	86.80	23.49		65.0	
40047		Z	4.03	75.23	17.77	<u> </u>	65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	5.50	76.42	20.00	3.98	65.0	± 9.6 %
		Υ	6.26	77.49	20.66	<u> </u>	65.0	
40040	1	Z	3.95	71.61	16.94	<u> </u>	65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	5.40	75.54	19.60	3.98	65.0	± 9.6 %
		Y	6.16	76.66	20.28		65.0	
10010		Z	3.89	70.88	16.59		65.0	<del></del>
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	9.66	89.43	25.19	3.98	65.0	± 9.6 %
		Y	10.35	89.11	25.13		65.0	
10250-	I TE MAD (On The Control of the Cont	<u>Z</u>	5.64	80.91	21.33		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	6.21	78.20	22.44	3.98	65.0	± 9.6 %
		Y	6.93	79.00	22.73		65.0	
10251-	LTC TDD (OO EDMA TOO) TO	_Z_	4.95	74.96	20.57		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.85	75.76	21.03	3.98	65.0	± 9.6 %
		Y	6.49	76.44	21.31		65.0	
10252-	LTC TDD (00 FDMA ====	Z	4.69	72.73	19.17		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	8.41	86.24	25.10	3.98	65.0	± 9.6 %
		Υ	9.13	86.11	24.91		65.0	
10253-	LTC TOD (SO EDIA TO)	Z	5.95	81.04	22.79		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	5.81	74.45	20.83	3.98	65.0	± 9.6 %
		Υ	6.39	75.11	21.05		65.0	<del></del>
	LTC TOD 100 F	Ζ	4.88	72.13	19.42		65.0	
10054								
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	6.16	75.32	21.51	3.98	65.0	± 9.6 %
	64-QAM)	X	6.77	75.99	21.51	3.98	65.0	± 9.6 %

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10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	6.96	80.42	23.12	3.98	65.0	± 9.6 %
		Υ	7.59	80.64	23.06		65.0	
		Z	5.51	77.21	21.58		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	4.89	73.41	16.49	3.98	65.0	± 9.6 %
		Υ	6.68	77.30	18.76		65.0	
		Z	2.46	64.75	10.88		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	4.63	72.26	15.89	3.98	65.0	± 9.6 %
		Y	6.35	76.13	18.19		65.0	
		Z	2.42	64.27	10.52		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	5.50	79.01	19.45	3.98	65.0	± 9.6 %
		Y	7.01	81.77	20.90		65.0	
		Z	2.56	68.30	13.54	0.00	65.0	. 0 0 04
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	×	5.80	77.14	20.90	3.98	65.0	± 9.6 %
		Y	6.53	78.01	21.38		65.0	
		Z	4.38	73.08	18.36	0.00	65.0	1000
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.78	76.67	20.70	3.98	65.0	± 9.6 %
	•	Y	6.51	77.60	21.22		65.0	
		Z	4.39	72.73	18.19	0.00	65.0	1000
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	8.27	86.47	24.62	3.98	65.0	± 9.6 %
		Y	9.00	86.40	24.57		65.0	
		Z	5.46	80.05	21.57	0.00	65.0	1000
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	6.19	78.15	22.39	3.98	65.0	± 9.6 %
		Υ	6.92	78.95	22.69		65.0	
		Z	4.94	74.88	20.51		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	5.84	75.72	21.02	3.98	65.0	± 9.6 %
		Υ	6.48	76.42	21.31		65.0	ļ
		Z	4.68	72.71	19.16		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	8.30	85.98	24.99	3.98	65.0	± 9.6 %
		Y	9.03	85.88	24.80		65.0	ļ
		Z	5.88	80.81	22.67		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	5.96	75.09	21.13	3.98	65.0	± 9.6 %
		Y	6.59	75.82	21.35		65.0	1
		Z	4.95	72.53	19.70		65.0	1.000
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	6.33	75.99	21.86	3.98	65.0	± 9.6 %
		Υ	6.97	76.70	22.07	ļ	65.0	
		Z	5.31	73.56	20.51		65.0	1000
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	7.45	81.44	23.28	3.98	65.0	± 9.6 %
		Y	8.11	81.58	23.17		65.0	
		Z	5.81	77.97	21.72	1	65.0	1,000
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.50	74.59	21.27	3.98	65.0	± 9.6 %
		Y	7.11	75.29	21.47		65.0	
		Z	5.58	72.49	20.14	1	65.0	1
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	6.45	74.07	21.10	3,98	65.0	± 9.6 %
		Y	7.04	74.76	21.30		65.0	
		Z	5.59	72.11	20.01		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.83	77.38	21.77	3.98	65.0	± 9.6 %
		Y	7.44	77.78	21.79		65.0	
		Z	5.71	75.01	20.64		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.62	66.75	15.42	0.00	150.0	± 9.6 %
<u> </u>		Y	2.61	66.15	15.17		150.0	<del>                                     </del>
<u> </u>		Z	2.54	67.07	15.23	<del>                                     </del>	150.0	<del>-</del>
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	Х	1.67	68.55	15.99	0.00	150.0	± 9.6 %
		Y	1.61	67.31	15.31		150.0	<del></del>
40077	PHO (OPO)	_ Z	1.61	68.63	15.84		150.0	
10277- CAA	PHS (QPSK)	X	1.74	60.91	6.37	9.03	50.0	± 9.6 %
<del></del>		Y	2.31	62.75	8.24		50.0	
10278-	DHC (ODGK DW 00 that D is 40 =	Z	1.34	59.32	4.61		50.0	
CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	9.23	83.71	19.86	9.03	50.0	± 9.6 %
		Y	16.13	92.59	23.80		50.0	
10279-	DHS (ODSK DW 004) II II II II II II	Z	2.80	66.68	11.50		50.0	
CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	Х	9.55	84.14	20.09	9.03	50.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Y	16.22	92.62	23.87		50.0	
10290-	ODMACCO POL COTT	Z	2.90	67.01	11.74		50.0	
AAB	CDMA2000, RC1, SO55, Full Rate	X	1.55	69.78	14.51	0.00	150.0	± 9.6 %
		Y	1.48	68.23	14.09		150.0	<del>                                     </del>
10291-	OBMAGGG TOO	Z	1.19	67.52	12.47		150.0	
AAB	CDMA2000, RC3, SO55, Full Rate	X	0.89	66.83	13.08	0.00	150.0	± 9.6 %
		Y	0.85	65.35	12.57		150.0	<del></del>
40000	OBM Control of the co	Z	0.74	65.55	11.46		150.0	· · · · · · · · · · · · · · · · · · ·
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	1.27	72.61	16.13	0.00	150.0	± 9.6 %
		Y	1.03	68.80	14.67		150.0	
		Z	1.20	72.32	14.93		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	2.34	81.60	20.09	0.00	150.0	± 9.6 %
		Y	1.43	73.64	17.27		150.0	
1000=		Z	3.93	87.90	20.92		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	16.32	98.49	29.02	9.03	50.0	± 9.6 %
		Υ	11.98	92.39	27.58		50.0	
40007		Z	18.77	96.90	26.52		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.80	70.02	16.88	0.00	150.0	± 9.6 %
		Υ	2.77	69.27	16.41		150.0	
10298-	LTE EDD (OC TOUR	Z	2.65	69.87	16.82		150.0	
AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.62	68.28	14.44	0.00	150.0	± 9.6 %
		Y	1.62	67.40	14.26		150.0	
10299-	LITE FDD (OO FELL)	Z	1.32	66.56	12.71		150.0	
AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	2.59	69.34	14.00	0.00	150.0	± 9.6 %
		Υ	2.92	70.30	15.01		150.0	
10300-	LITE EDD (OO ED)	Z	1.54	64.05	10.22		150.0	
AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.92	64.86	11.14	0.00	150.0	± 9.6 %
		Υ	2.24	65.95	12.27		150.0	
10301-	IEEE 900 400 MENANY 100 15 5	Z	1.26	61.60	8.20		150.0	
AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Х	4.85	66.06	17.86	4.17	50.0	± 9.6 %
<del></del>		Υ	4.97	65.84	17.76	-	50.0	<del></del>
10302-	IEEE 900 40- WILLIAM (20)	Z	4.42	65.27	17.23	+	50.0	
AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	Х	5.22	66.19	18.31	4.96	50.0	± 9.6 %
, 4 4 1	· · · · · · · · · · · · · · · · · · ·	1.7						1
		Y	5.38	66.17	18.31	7	50.0	

10303-	IEEE 802.16e WiMAX (31:15, 5ms,	X	4.96	65.79	18.13	4.96	50.0	± 9.6 %
AAA	10MHz, 64QAM, PUSC)	1						
		Y	5.14	65.84	18.17		50.0	
40004	IEEE COO 40, WELLAY (OO 40, E	Z	4.61	65.34	17.65		50.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.78	65.69	17.62	4.17	50.0	± 9.6 %
		Υ	4.94	65.66	17.62		50.0	
		Z	4.45	65.35	17.22		50.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	Х	4.24	66.91	19.40	6.02	35.0	± 9.6 %
		Y	4.54	67.57	19.86		35.0	
		Z	3.84	65.89	18.29		35.0	
10306- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	Х	4.62	66.22	19.11	6.02	35.0	± 9.6 %
		Y	4.86	66.59	19.39		35.0	
		Z	4.26	65.53	18.31		35.0	
10307- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.50	66.31	19.05	6.02	35.0	± 9.6 %
		Y	4.77	66.81	19.39		35.0	
		Ζ	4.12	65.47	18.17		35.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	Х	4.47	66.49	19.18	6.02	35.0	± 9.6 %
		Y	4.73	66.98	19.51		35.0	
		Z	4.09	65.63	18.30		35.0	
10309- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.68	66.45	19.27	6.02	35.0	± 9.6 %
		Y	4.93	66.86	19.56		35.0	
		Z	4.28	65.63	18.41		35.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	4.56	66.25	19.08	6.02	35.0	± 9.6 %
		Y	4.81	66.65	19.36		35.0	
		Z	4.20	65.54	18.28		35.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	3.16	69.26	16.50	0.00	150.0	± 9.6 %
		Y	3.13	68.60	16.08		150.0	
		Z	3.01	69.09	16.45		150.0	
10313- AAA	IDEN 1:3	X	8.00	86.23	21.34	6.99	70.0	± 9.6 %
· ·		TY	8.53	85.21	20.95		70.0	
		Z	3.31	75.28	17.31		70.0	
10314- AAA	iDEN 1:6	X	12.68	100.31	29.33	10.00	30.0	± 9.6 %
		Υ	13.31	98.73	28.67		30.0	
		Z	5.19	85.23	24.17		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.10	64.07	15.53	0.17	150.0	±9.6 %
		Y	1.10	63.56	15.08		150.0	
		Z	1.08	63.95	15.31		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.59	66.75	16.41	0.17	150.0	± 9.6 %
		Y	4.66	66.58	16.32		150.0	
		Z	4.43	66.78	16.29		150.0	
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.59	66.75	16,41	0.17	150.0	± 9.6 %
		Y	4.66	66.58	16.32		150.0	
		Z	4.43	66.78	16.29		150.0	ļ., <u></u>
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.69	67.06	16.37	0.00	150.0	± 9.6 %
		Y	4.77	66.86	16.25		150.0	
		Z	4.51	67.11	16.31		150.0	
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.41	67.26	16.54	0.00	150.0	± 9.6 %
		Y	5.45	67.06	16.42		150.0	
		Z					150.0	

10402- AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.65	67.49	16.51	0.00	150.0	± 9.6 %
		Y	5.72	67.43	16.45	· .	150.0	<del> </del>
		Z	5.51	67.47	16.48	ļ	150.0	<del>                                     </del>
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	Х	1.55	69.78	14.51	0.00	115.0	± 9.6 %
		Υ	1.48	68.23	14.09		115.0	
		Z	1.19	67.52	12.47		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	1.55	69.78	14.51	0.00	115.0	± 9.6 %
		Y	1.48	68.23	14.09		115.0	<u> </u>
40400	ODIVIORE TO A STATE OF THE STAT	Z	1.19	67.52	12.47		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	Х	100.00	120.41	29.76	0.00	100.0	± 9.6 %
<del></del>		Y	19.72	99.25	25.38		100.0	
10110		Z	22.86	100.95	24.14		100.0	
10410- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.71	31.88	3.23	80.0	± 9.6 %
		Υ	100.00	124.16	31.78		80.0	
40445	IFFE 000 441 MURI C 1 C 1	Z	8.15	91.76	22.46		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.03	63.26	14.92	0.00	150.0	± 9.6 %
		Y	1.02	62.63	14.41		150.0	
40440	1555 000 44 10050 0 100	Z	1.03	63.39	14.88		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.54	66.72	16.31	0.00	150.0	± 9.6 %
		Υ	4.59	66.51	16.19		150.0	
40447		Z	4.40	66.84	16.26		150.0	
10417- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.54	66.72	16.31	0.00	150.0	± 9.6 %
		Υ	4.59	66.51	16.19		150.0	
		Z	4.40	66.84	16.26		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.53	66.89	16.33	0.00	150.0	± 9.6 %
		Y	4.58	66.66	16.20		150.0	**
		Z	4.40	67.05	16.32		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	Х	4.55	66.83	16.33	0.00	150.0	± 9.6 %
		Υ	4.60	66.61	16.21		150.0	
		Z	4.41	66.98	16.30		150.0	
10422- AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	Х	4.66	66.83	16.34	0.00	150.0	± 9.6 %
		Υ	4.72	66.62	16.23		150.0	
10100		Z	4.52	66.95	16.31		150.0	·
10423- AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	Х	4.82	67.13	16.45	0.00	150.0	± 9.6 %
		Υ	4.90	66.96	16.35		150.0	
40404		Z	4.65	67.21	16.40		150.0	
10424- AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	Х	4.75	67.09	16.43	0.00	150.0	± 9.6 %
		Υ	4.82	66.90	16.32		150.0	
40.40=		Z	4.58	67.17	16.38		150.0	
10425- AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Х	5.35	67.37	16.60	0.00	150.0	± 9.6 %
		Y	5.42	67.27	16.52		150.0	
			<u> </u>					
		Z	5.19		16.55			
10426- AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)			67.35 67.42	16.55 16.62	0.00	150.0 150.0	± 9.6 %
		Z	5.19	67.35		0.00	150.0	± 9.6 %

10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.37	67.38	16.60	0.00	150.0	± 9.6 %
	0 1 50 km)	Y	5.43	67.25	16.50		150.0	
		Ż	5.18	67.23	16.48		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.24	70.83	18.17	0.00	150.0	± 9.6 %
010		Y	4.26	70.25	18.02		150.0	
		Ż	4.20	71.89	18.27		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.21	67.30	16.30	0.00	150.0	± 9.6 %
7 0 1.5		Y	4.28	67.03	16.19		150.0	
		Z	4.03	67.45	16.18		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.51	67.15	16.38	0.00	150.0	± 9.6 %
		Y	4.58	66.93	16.27		150.0	
		Z	4.34	67.27	16.32		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	Х	4.76	67.12	16.45	0.00	150.0	± 9.6 %
		Y	4.83	66.94	16.34		150.0	
		Z	4.59	67.20	16.40		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.34	71.72	18.14	0.00	150.0	± 9.6 %
		Υ	4.35	71.03	17.99		150.0	
		Z	4.31	72.81	18.12		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	125.48	31.77	3.23	80.0	± 9.6 %
		Υ	100.00	123.97	31.69		80.0	
		Z	7.63	90.76	22.11		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.51	67.35	15.60	0.00	150.0	± 9.6 %
		Υ	3.58	66.99	15.55		150.0	
		Z	3.28	67.36	15.16		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Х	4.06	67.09	16.17	0.00	150.0	± 9.6 %
		Υ	4.12	66.80	16.05		150.0	
		Z	3.89	67.25	16.05		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.33	66.98	16.28	0.00	150.0	±9.6%
<u>.</u>		Y	4.39	66.75	16.16		150.0	
		Z	4.18	67.10	16.22		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	4.53	66.89	16.30	0.00	150.0	± 9.6 %
		Y	4.58	66.69	16.19		150.0	
		Z	4.39	66.98	16.26	<u> </u>	150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.39	67.51	15.20	0.00	150.0	± 9.6 %
		Y	3.48	67.19	15.21		150.0	-
		Z	3.10	67.22	14.48	ļ <u>.</u>	150.0	
10456- AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Х	6.22	67.91	16.74	0.00	150.0	± 9.6 %
		Y	6.28	67.83	16.68	<b>_</b>	150.0	1
		Z	6.11	67.90	16.72	<b></b>	150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.80	65.37	16.02	0.00	150.0	± 9.6 %
		Y	3.83	65.15	15.90	1	150.0	1
- 11-		Z	3.74	65.57	15.99	-	150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.21	66.83	14.57	0.00	150.0	± 9.6 %
		Υ	3.31	66.55	14.68		150.0	<u> </u>
		Z	2.82	66.01	13.39		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.29	65.14	15.57	0.00	150.0	± 9.6 %
<del></del>		Y	4.36	64.71	15.51		150.0	
		Z	4.04	65.27	15.07		150.0	

10460- AAA	UMTS-FDD (WCDMA, AMR)	X	0.96	69.26	16.86	0.00	150.0	± 9.6 %
AAA		Y	0.00	07.00				20.0 %
		Z	0.88	67.02 69.35	15.53 16.76		150.0	ļ
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	131.25	34.47	3.29	150.0 80.0	± 9.6 %
<u> </u>		Y	100.00	128.59	33.89		80.0	+
10460	LTE TOP (OR FINAL	Z	3.16	81.29	20.28		80.0	<del>                                     </del>
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	18.15	90.54	19.55	3.23	80.0	± 9.6 %
		Y	100.00	110.06	25.23		80.0	
10463-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z X	0.71	60.00	7.72		80.0	
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)	^   <del>`</del>	2.32	68.92	12.27	3.23	80.0	± 9.6 %
		$\frac{1}{Z}$	0.72	85.50	18.46	<del> </del>	80.0	<b>_</b>
10464-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz,	X	100.00	60.00 128.50	7.06		80.0	
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	^   Y	100.00		33.02	3.23	80.0	± 9.6 %
		Z	2.43	126.31	32.66	<del> </del>	80.0	<u> </u>
10465-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-	<u>Z</u>	7.48	77.27 81.44	18.20	1 000	80.0	
AAA	QAM, UL Subframe=2,3,4,7,8,9)	Y	53.06		16.98	3.23	80.0	± 9.6 %
		$\frac{1}{Z}$	0.71	102.63 60.00	23.42	<del> </del>	80.0	
10466-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-	+ <del>z</del> -	1.86	66.75	7.65	0.00	80.0	
AAA	QAM, UL Subframe=2,3,4,7,8,9)	^   Y	7.10	79.26	11.37	3.23	80.0	± 9.6 %
·		<u>'</u>	0.72	60.00	16.56	<u> </u>	80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.82	7.01 33.16	3.23	80.0	± 9.6 %
		TY	100.00	126.57	32.78	<del> </del>	80.0	
		Z	2.60	78.29	18.60	<del>                                       </del>	80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	9.21	83.60	17.62	3.23	80.0	± 9.6 %
		Y	76.07	106.68	24.37	<del> </del>	80.0	<del> </del>
		Z	0.70	60.00	7.67	<u> </u>	80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	1.87	66.82	11.40	3.23	80.0	± 9.6 %
		Y	7.22	79.45	16.62		80.0	
40470	1.7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	LZ ]	0.72	60.00	7.01	<del></del>	80.0	<del></del>
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.87	33.17	3.23	80.0	± 9.6 %
		Υ	100.00	126.61	32.79		80.0	
10471-	LTE TOD (CC FDMA 4 DD 40 LD)	Z	2.61	78.33	18.61		80.0	
AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	9.03	83.37	17.54	3.23	80.0	± 9.6 %
<del>-</del>	<del> </del>	Y	75.72	106.57	24.32		80.0	
10472-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-	Z	0.70	60.00	7.66		80.0	
AAC	QAM, UL Subframe=2,3,4,7,8,9)	X	1.85	66.72	11.34	3.23	80.0	± 9.6 %
		Y	7.17	79.36	16.58		80.0	
10473-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	Z	0.72	60.00	6.99		80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	1	100.00	128.83	33.15	3.23	80.0	± 9.6 %
<u> </u>		Y	100.00	126.57	32.77		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	2.60 8.86	78.28 83.19	18.59 17.49	3.23	80.0 80.0	± 9.6 %
	-10, 11, 10,07	Y	73.20	106.22	24.25			
		ż	0.70	60.00			80.0	
10475-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-	X	1.84	66.67	7.66 11.33	3.23	80.0	+0.6.9/
AAC	QAM, UL Subframe=2,3,4,7,8,9)							± 9.6 %
		Y	7.07	79.22	16.54		80.0	
	<u> </u>	Z	0.72	60.00	6.99		80.0	

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10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	7.55	81.52	16.98	3.23	80.0	± 9.6 %
	The state of the s	Υ	56.45	103.26	23.54		80.0	
		Ζ	0.70	60.00	7.63		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.82	66.56	11.27	3.23	80.0	± 9.6 %
		Υ	6.95	79.03	16.47		80.0	
		Z	0.72	60.00	6.98		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	10.99	93.23	25.61	3.23	80.0	± 9.6 %
·		Υ	9.79	90.18	24.96		80.0	
		Z	4.54	80.48	20.41		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	12.16	88.23	21.88	3.23	80.0	± 9.6 %
		Y	11.98	87.55	22.28		80.0	
		Z	2.88	70.37	14.48	0.00	80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	8.71	82.91	19.80	3.23	80.0	± 9.6 %
		Y	9.82	84.02	20.80		80.0	
40:00	1 TE TOD (00 TO) 1 TO 1	Z	2.18	66.77	12.57	0.00	80.0	1000
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.05	77.33	19.19	2.23	80.0	± 9.6 %
		Y	4.17	76.68	19.19		80.0	
		Z	2.07	68.66	14.58	0.00	80.0	1000
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.93	75.57	17.70	2.23	80.0	± 9.6 %
		Y	6.34	78.50	19.36		80.0	
		Z	1.80	63.38	11.04	0.00	80.0	1000
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	4.47	74.01	17.11	2.23	80.0	± 9.6 %
	1.000	Υ	5.79	76.98	18.82		80.0	<u> </u>
		Z	1.76	62.89	10.79		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.05	77.49	20.34	2.23	80.0	± 9.6 %
		Υ	4.20	76.76	20.09		80.0	ļ
		Z	2.71	72.24	17.50		80.0	1000
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.54	71.63	17.34	2.23	80.0	± 9.6 %
		Y	3.76	71.58	17.54	ļ	80.0	-
		Z	2.51	67.51	14.60		80.0	1
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.49	71.03	17.07	2.23	80.0	± 9.6 %
		Y	3.74	71.08	17.31		80.0	ļ
		Z	2.49	67.04	14.35	2.00	80.0	10000
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.92	74.84	20.03	2.23	80.0	± 9.6 %
		Y	4.21	74.77	19.87		80.0	<del> </del>
<u></u>		Z	2.99	71.49	18.31	0.00	80.0	1000/
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.58	70.14	18.01	2.23	80.0	± 9.6 %
ļ		Y	3.82	70.22	18.04		80.0	<del></del>
		Z	3.03	68.36	16.75	2.22	80.0	1060
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.66	69.89	17.90	2.23	80.0	± 9.6 %
		Y	3.90	69.97	17.95	-	80.0	<u> </u>
10491-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	3.10 4.00	68.21 72.50	16.67 19.16	2.23	80.0	± 9.6 %
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	+	4.00	70.60	10.00	-	80.0	<del>                                     </del>
		Y	4.28	72.62	19.08	1	80.0	
40.400	1 TE TOD (00 EDIM E00/ DD 45 1411-	Z	3.25	70.05	17.90 17.79	2.23	80.0	± 9.6 %
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.86	68.99		2.23		1 3.0 %
]		Y	4.11	69.18	17.85	+	80.0	<del> </del>
1	j	Z	3.37	67.61	16.86	_l	80.0	

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10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.92	68.82	17.72	2.23	80.0	± 9.6 %
70.0	04-GAW, OL Subitanie-2,3,4,7,8,9)	1	1 47		<del> </del>			
		Y	4.17	69.02	17.78		80.0	
10494-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	Z	3.43	67.50	16.80		80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	X	4.43	74.41	19.78	2.23	80.0	± 9.6 %
		<u> </u>	4.75	74.52	19.68		80.0	T
10495-	LTE TOD (CO SDAM SOO( DD OO )	Z	3.49	71.39	18.37		80.0	
AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.90	69.39	18.01	2.23	80.0	± 9.6 %
		<u> Y</u>	4.16	69.65	18.06	L	80.0	
10496-	LTE TOD (OO FOMA 50% DD 00 1 11	Z	3.39	67.86	17.06		80.0	
AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.97	69.05	17.88	2.23	80.0	± 9.6 %
		Y	4.22	69.30	17.94		80.0	
10497-	LTC TDD (00 ED) (1	Z	3.47	67.65	16.99		80.0	
AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.87	72.14	16.05	2.23	80.0	± 9.6 %
		Υ	3.23	72.92	16.83		80.0	
10498-	LTE TOD (OC EDNA 1000) DE	Z	1.19	62.14	10.12		80.0	1
AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.73	63.11	10.85	2.23	80.0	± 9.6 %
		Y	2.27	65.45	12.56		80.0	1
40400		Z	1.15	60.00	7.68		80.0	<del>                                     </del>
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.65	62.30	10.28	2.23	80.0	± 9.6 %
		Y	2.18	64.69	12.05	<del>                                     </del>	80.0	
		Z	1.17	60.00	7.51	<u> </u>	80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.87	75.87	20.03	2.23	80.0	± 9.6 %
		Y	4.07	75.40	19.81		80.0	<del>-</del>
40504		Z	2.80	71.83	17.80		80.0	<del> </del>
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.57	71.05	17.60	2.23	80.0	± 9.6 %
		Y	3.78	70.97	17.70		80.0	
40500		Z	2.79	68.23	15.59		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.61	70.84	17.44	2.23	80.0	± 9.6 %
		Υ	3.84	70.79	17.56		80.0	
10000		Ζ	2.82	68.03	15.41		80.0	<del></del>
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.87	74.62	19.92	2.23	80.0	± 9.6 %
		Υ	4.15	74.55	19.77		80.0	
10504-	LTC TDD (OO FD) II ACCOUNTS	Z	2.95	71.29	18.21		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.57	70.04	17.95	2.23	80.0	± 9.6 %
		Y	3.80	70.13	17.99		80.0	
10505-	LITE TOD (OO FOLL)	Z	3.01	68.26	16.69		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.64	69.79	17.85	2.23	80.0	± 9.6 %
		Y	3.88	69.88	17.89		80.0	
10506-	LTE TOD (CC TOUR 1000) TO	Z	3.09	68.12	16.62		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.39	74.26	19.71	2.23	80.0	± 9.6 %
		Y	4.71	74.37	19.61		80.0	
10507-	LTC TOD (OC EDUA 1000)	Z	3.46	71.26	18.30		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.89	69.33	17.97	2.23	80.0	±9.6 %
		Y	4.44	20.50				
	<del> </del>	ż	4.14	69.59	18.03	I	80.0	

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10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL	Х	3.95	68.98	17.84	2.23	80.0	± 9.6 %
	Subframe=2,3,4,7,8,9)	Υ	4.21	69.23	17.90	ļ	80.0	
		Z		67.59	16.95		80.0	
10500	LTE TOD (SC FDMA 100% DB 15		3.46			2 22		± 9.6 %
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.62	72.40	18.91	2.23	80.0	± 9.0 %
		Y	4.92	72.59	18.86		80.0	
		Z	3.86	70.20	17.85		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.34	68.87	17.84	2.23	80.0	± 9.6 %
		Y	4.61	69.18	17.91		80.0	
		Z	3.85	67.53	17.06		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	4.39	68.57	17.74	2.23	80.0	± 9.6 %
	Cabillation Electrical States	Υ	4.65	68.86	17.81		80.0	
		Z	3.92	67.35	17.00		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.95	74.43	19.59	2.23	80.0	± 9.6 %
		Y	5.29	74.60	19.52		80.0	
		Ż	3.97	71.52	18.28		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.24	69.19	17.98	2.23	80.0	± 9.6 %
	=,=,,,=,=,=,	Υ	4.52	69.55	18.06		80.0	
		Z	3.73	67.67	17.13		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.25	68.69	17.82	2.23	80.0	±9.6 %
	Gubitaine-2,0,4,7,0,0)	Y	4.51	69.03	17.90		80.0	
		Z	3.78	67.33	17.02		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.99	63.46	15.00	0.00	150.0	± 9.6 %
777	(vibps, sope duty cycle)	Υ	0.98	62.78	14.45		150.0	
		Z	0.99	63.59	14.96		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.69	72.54	18.63	0.00	150.0	± 9.6 %
		Y	0.56	68.11	16.08		150.0	
		Z	0.67	72.15	18.45		150.0	
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	Х	0.85	65.62	15.80	0.00	150.0	± 9.6 %
		Y	0.82	64.42	14.91		150.0	
		Z	0.84	65.62	15.72		150.0	
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	Х	4.53	66.80	16.29	0.00	150.0	± 9.6 %
		Υ	4.59	66.58	16.17		150.0	
		Z	4.39	66.94	16.26		150.0	
10519- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	4.71	67.02	16.40	0.00	150.0	± 9.6 %
		Y	4.78	66.84	16.30		150.0	
		Z	4.54	67.11	16.34		150.0	
10520- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.56	66.98	16.32	0.00	150.0	± 9.6 %
		Y	4.63	66.80	16.22	-	150.0	<del> </del>
10521-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24	Z	4.40 4.49	67.05 66.97	16.26 16.31	0.00	150.0 150.0	± 9.6 %
AAA	Mbps, 99pc duty cycle)	Y	4.56	66.79	16.20	<del>                                     </del>	150.0	+
		- T	4.33	67.02	16.25	<del>                                     </del>	150.0	1
		1 4	4.00			+ 000		1000
10522-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36	X	4.56	67.08	16.40	0.00	150.0	± 9.6 %
10522- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)		4.56 4.62	67.08	16.40	0.00	150.0	± 9.6 %

10523- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	4.44	66.96	16.26	0.00	150.0	± 9.6 %
7000	Mbps, 99pc duty cycle)	Y	4.50	66.72	16.12			1 3.0 %
		$\frac{1}{z}$	4.31	67.14	16.12	+	150.0	
10524- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.50	67.00	16.37	0.00	150.0 150.0	± 9.6 %
		Y	4.57	66.78	16.25		150.0	<del>                                      </del>
40.00		Z	4.33	67.10	16.33	<del> </del>	150.0	+
10525- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.49	66.06	15.96	0.00	150.0	± 9.6 %
		Y	4.54	65.82	15.83		150.0	<del></del>
10526-	IEEE 802.11ac WiFi (20MHz, MCS1,	Z	4.36	66.21	15.95		150.0	1
AAA	99pc duty cycle)	X	4.65	66.41	16.10	0.00	150.0	± 9.6 %
		Y	4.72	66.20	15.98		150.0	
10527-	IEEE 802.11ac WiFi (20MHz, MCS2,	Z	4.49	66.49	16.07	<u> </u>	150.0	
AAA	99pc duty cycle)	X	4.58	66.37	16.05	0.00	150.0	± 9.6 %
		Y	4.64	66.16	15.92		150.0	
10528-	IEEE 802.11ac WiFi (20MHz, MCS3,	Z	4.42	66.47	16.01		150.0	
AAA	99pc duty cycle)		4.59	66.39	16.08	0.00	150.0	± 9.6 %
		Y	4.65	66.18	15.96	ļ	150.0	
10529-	IEEE 802.11ac WiFi (20MHz, MCS4,	Z	4.43	66.48	16.04	ļ	150.0	
AAA	99pc duty cycle)	X	4.59	66.39	16.08	0.00	150.0	± 9.6 %
		Y	4.65	66.18	15.96		150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.43 4.58	66.48 66.48	16.04 16.09	0.00	150.0 150.0	± 9.6 %
		Y	4.65	66.29	45.07	<del> </del>	<u> </u>	
		Ż	4.40	66.51	15.97	<u> </u>	150.0	
10532- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.44	66.34	16.02 16.02	0.00	150.0 150.0	± 9.6 %
		Υ	4.51	66.14	15.90	<del></del>	150.0	
		Z	4.28	66.37	15.96	<del></del>	150.0 150.0	
10533- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	4.60	66.44	16.07	0.00	150.0	± 9.6 %
		Y	4.66	66.22	15.94		150.0	
		Z	4.44	66.56	16.05		150.0	
10534- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.13	66.46	16.12	0.00	150.0	± 9.6 %
		Υ	5.19	66.32	16.03		150.0	
10535-	IEEE 000 A4	Z	4.99	66.46	16.09		150.0	
AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.20	66.64	16.21	0.00	150.0	± 9.6 %
		Υ	5.25	66.49	16.10		150.0	
10536-	IEEE 900 440 - 1400 1400 1100 1100 1100 1100 1	Z	5.03	66.59	16.15		150.0	
AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	Х	5.07	66.60	16.17	0.00	150.0	± 9.6 %
		Y	5.12	66.44	16.06		150.0	
10537-	IEEE 802.11ac WiFi (40MHz, MCS3,	Z	4.92	66.60	16.13		150.0	
AAA	99pc duty cycle)	X	5.12	66.56	16.15	0.00	150.0	± 9.6 %
		Y	5.18	66.41	16.05	_	150.0	
10538-	IEEE 802.11ac WiFi (40MHz, MCS4,	Z	4.98	66.58	16.13		150.0	
AAA	99pc duty cycle)	Х	5.21	66.56	16.19	0.00	150.0	± 9.6 %
	<del>     </del>	Υ	5.28	66.45	16.11		150.0	
10540-	[FFE 802 11ac M/IE) (40M/III - 14000	_ <u>Z</u>	5.05	66.54	16.15		150.0	
4AA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.14	66.58	16.22	0.00	150.0	± 9.6 %
		Y	_5.20	66.45	16.12		150.0	
		Z	4.98	66.51	16.15		150.0	

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10541- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.12	66.46	16.14	0.00	150.0	± 9.6 %
		Υ	5.18	66.32	16.05		150.0	
		Z	4.96	66.43	16.09		150.0	
10542- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.27	66.53	16.19	0.00	150.0	± 9.6 %
		Y	5.33	66.40	16.10		150.0	
		Z	5.12	66.52	16.15		150.0	
10543- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	5.34	66.55	16.23	0.00	150.0	±9.6 %
		Y	5.41	66.44	16.14		150.0	
		Z	5.19	66.58	16.21		150.0	
10544- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	Х	5.45	66.57	16.12	0.00	150.0	± 9.6 %
		Y	5.49	66.44	16.03		150.0	
		Z	5.33	66.54	16.08	:	150.0	
10545- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	Х	5.64	66.98	16.28	0.00	150.0	± 9.6 %
		Υ	5.69	66.86	16.18		150.0	
		Z	5.50	66.96	16.25		150.0	
10546- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	Х	5.50	66.75	16.18	0.00	150.0	± 9.6 %
		Y	5.56	66.68	16.11		150.0	
		Z	5.36	66.66	16.11		150.0	
10547- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	Х	5.57	66.80	16.19	0.00	150.0	± 9.6 %
		Y	5.64	66.72	16.12		150.0	i
		Z	5.44	66.76	16.16		150.0	
10548- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.80	67.67	16.61	0.00	150.0	± 9.6 %
		Y	5.91	67.72	16.59		150.0	
		Z	5.58	67.38	16.44		150.0	
10550- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	Х	5.54	66.80	16.21	0.00	150.0	± 9.6 %
7001	0000 001, 030.0)	TY	5.59	66.67	16.11		150.0	
		Ż	5.42	66.83	16.21		150.0	-
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.54	66.82	16.18	0.00	150.0	± 9.6 %
,		Y	5.59	66.72	16.10		150.0	
		Z	5.36	66.63	16.07		150.0	
10552- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Х	5.46	66.64	16.10	0.00	150.0	± 9.6 %
		Υ	5.51	66.51	16.00		150.0	
		Z	5.34	66.66	16.08	<u> </u>	150.0	
10553- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.54	66.66	16.14	0.00	150.0	±9.6%
		Y	5.59	66.56	16.06		150.0	<u></u>
		Z	5.39	66.61	16.09		150.0	<u> </u>
10554- AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	Х	5.86	66.92	16.20	0.00	150.0	± 9.6 %
		Y	5.89	66.81	16.12		150.0	
		Z	5.75	66.87	16.15		150.0	
10555- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	5.98	67.22	16.33	0.00	150.0	± 9.6 %
		Y	6.03	67.12	16.25	<u> </u>	150.0	-
10556-	IEEE 802.11ac WiFi (160MHz, MCS2,	Z X	5.84 6.00	67.10 67.27	16.25 16.35	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)		0.05	07.40	46.07	<del>                                     </del>	150.0	1
		Y	6.05	67.16	16.27	<del> </del>	150.0	+
	11000	Z	5.88	67.20	16.30	0.00	150.0	± 9.6 %
10557- AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.96	67.16	16.31	0.00		£ 3.0 %
		Y	6.02	67.08	16.25	1	150.0	-
1		Z	5.84	67.08	16.25	1	150.0	1

10558- AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.01	67.32	16.41	0.00	150.0	± 9.6 %
<u> </u>		Y	6.07	67.25	16.34	<del>-</del>	150.0	<del>                                     </del>
40500	Legge and	Z	5.85	67.15	16.31		150.0	1
10560- AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.01	67.17	16.37	0.00	150.0	± 9.6 %
		Y	6.06	67.10	16.31		150.0	<del>                                     </del>
10501	IEEE COO 44	Z	5.87	67.07	16.30	T	150.0	
10561- AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.93	67.15	16.40	0.00	150.0	± 9.6 %
		Y	5.98	67.06	16.32		150.0	<u> </u>
10562-	IEEE 900 44 - MEE: (400 M)	Z	5.80	67.05	16.32		150.0	
AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.04	67.49	16.57	0.00	150.0	± 9.6 %
<del></del>		Y	6.12	67.48	16.53		150.0	
10563-	ICEE 900 4400 MIC (400 M) 1000	Z	5.85	67.23	16.41		150.0	†
AAB	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.18	67.55	16.56	0.00	150.0	± 9.6 %
		Y	6.43	68.00	16.75		150.0	
10564-	IEEE 900 44c WEEL 0 4 CV	Z	5.95	67.17	16.35		150.0	<u> </u>
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.86	66.88	16.45	0.46	150.0	± 9.6 %
		Y	4.92	66.69	16.36		150.0	
10565-	IEEE 902 44 - MEE' 0 4 OU 40 00	Z	4.71	66.96	16.39		150.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.08	67.30	16.76	0.46	150.0	± 9.6 %
		Y	5.16	67.15	16.67		150.0	-
10566-	IEEE 900 44 - WIEL 0 4 OLL (DOOD	Z	4.90	67.36	16.69		150.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	4.91	67.15	16.58	0.46	150.0	± 9.6 %
<del>-</del>		Y	4.99	67.00	16.50		150.0	
10567-	IEEE 000 44 WEEL 0 4 DV	Z	4.74	67.18	16.50		150.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	4.94	67.52	16.92	0.46	150.0	± 9.6 %
		Y	5.01	67.38	16.84		150.0	
10568-	IEEE 000 44 WEEL O A ONLY IN THE	Z	4.77	67.57	16.87		150.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.83	66.96	16.38	0.46	150.0	± 9.6 %
		<u> </u>	4.90	66.77	16.27		150.0	
10500	ILEE OOD ALL	Z	4.63	66.92	16.25		150.0	<del></del>
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.90	67.63	17.00	0.46	150.0	± 9.6 %
		Υ	4.96	67.44	16.88		150.0	
10570-	IEEE OOG 44 1999	<u> </u>	4.75	67.78	17.00		150.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	4.93	67.48	16.92	0.46	150.0	± 9.6 %
<del>-</del>		Υ	5.00	67.29	16.82		150.0	
10571-	JEEE 000 441 MIET 0 4 THE STATE OF THE STATE	<u>Z</u>	4.76	67.58	16.89		150.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.18	64.69	15.93	0.46	130.0	± 9.6 %
		Y	1.20	64.37	15.58		130.0	
10572-	IEEE 000 441 Name of the	Z	1.13	64.22	15.49		130.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.19	65.27	16.29	0.46	130.0	± 9.6 %
		Υ	1.21	64.91	15.92		130.0	
40570	I IEEE OOS ( III )	Z	1.14	64.74	15.83		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Х	2.77	92.16	26.12	0.46	130.0	± 9.6 %
		Y	1.86	83.27	22.47		130.0	<del></del> -
	<u> </u>	Z	1.57	83.20	23.00		130.0	
40071	I I I I I I I I I I I I I I I I I I I						100.0	1
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.31	71.26	19.39	0.46	130.0	± 9.6 %
	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)		1.31	71.26 70.26	19.39	0.46		± 9.6 %

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10575- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 90pc duty cycle)	X	4.64	66.67	16.51	0.46	130.0	± 9.6 %
		Y	4.71 4.47	66.50 66.69	16.43 16.39		130.0 130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.66	66.83	16.58	0.46	130.0	± 9.6 %
		Υ	4.73	66.66	16.49		130.0	
		Z	4.50	66.89	16.47		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	Х	4.86	67.11	16.74	0.46	130.0	± 9.6 %
		Υ	4.94	66.97	16.66		130.0	
		Z	4.67	67.12	16.61		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.76	67.25	16.83	0.46	130.0	± 9.6 %
		Υ	4.84	67.12	16.76		130.0	
		Ζ	4.57	67.26	16.72		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.52	66.57	16.17	0.46	130.0	± 9.6 %
		Υ	4.61	66.44	16.10		130.0	
		Z	4.33	66.48	15.99		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	Х	4.57	66.63	16.21	0.46	130.0	± 9.6 %
		Y	4.66	66.47	16.12		130.0	
40504	LEGE COO 44 - NEET C 4 CO 1 /DCCC	Z	4.36	66.53	16.01	0.40	130.0	1000
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	Х	4.65	67.30	16.78	0.46	130.0	± 9.6 %
		Y	4.73	67.15	16.70		130.0	
		Z	4.48	67.34	16.69	0.70	130.0	. 0 0 0/
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.47	66.35	15.97	0.46	130.0	± 9.6 %
		Υ	4.56	66.21	15.89		130.0	
		Z	4.26	66.25	15.78		130.0	0.007
10583- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Х	4.64	66.67	16.51	0.46	130.0	±9.6%
		Υ	4.71	66.50	16.43		130.0	
		Z	4.47	66.69	16.39	2.42	130.0	
10584- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.66	66.83	16.58	0.46	130.0	± 9.6 %
		Υ	4.73	66.66	16.49		130.0	
		Z	4.50	66.89	16.47		130.0	
10585- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	Х	4.86	67.11	16.74	0.46	130.0	± 9.6 %
		Y	4.94	66.97	16.66		130.0	
10586-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18	Z X	4.67 4.76	67.12 67.25	16.61 16.83	0.46	130.0 130.0	± 9.6 %
AAA	Mbps, 90pc duty cycle)	Y	4.84	67.12	16.76		130.0	
		Z	4.57	67.12	16.70		130.0	
10587- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.52	66.57	16.17	0.46	130.0	± 9.6 %
2 V-V-1	impo, copo dad oyoloj	Y	4.61	66.44	16.10		130.0	
		Ż	4.33	66.48	15.99		130.0	1
10588- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.57	66.63	16.21	0.46	130.0	± 9.6 %
•		Y	4.66	66.47	16.12		130.0	
		Z	4.36	66.53	16.01		130.0	
10589- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.65	67.30	16.78	0.46	130.0	± 9.6 %
		Y	4.73	67.15	16.70		130.0	
		Z	4.48	67.34	16.69		130.0	
10590- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.47	66.35	15.97	0.46	130.0	± 9.6 %
		Υ	4.56	66.21	15.89		130.0	
		Z	4.26	66.25	15.78		130.0	

10591- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.79	66.72	16.61	0.46	130.0	± 9.6 %
		Y	4.86	66.57	16.53	-	130.0	<del> </del>
		Z	4.63	66.78	16.50		130.0	<del> </del>
10592- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.94	67.05	16.74	0.46	130.0	± 9.6 %
		Y	5.02	66.91	16.66		130.0	
		Z	4.75	67.07	16.63	_	130.0	<del> </del>
10593- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.86	66.96	16.62	0.46	130.0	± 9.6 %
		Y	4.94	66.83	16.55		130.0	<del>                                     </del>
		Z	4.67	66.95	16.49		130.0	† ···
10594- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.91	67.12	16.77	0.46	130.0	± 9.6 %
·		Υ	5.00	66.98	16.70		130.0	
40505	IEEE OOO 44 (UEAN)	Z	4.72	67.12	16.65		130.0	
10595- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.88	67.08	16.67	0.46	130.0	± 9.6 %
		Υ	4.96	66.94	16.59		130.0	
10500	IEEE 000 44- (UELV 1 00)	Z	4.69	67.10	16.56		130.0	
10596- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.82	67.08	16.68	0.46	130.0	± 9.6 %
		Y	4.90	66.94	16.60		130.0	
40007	1155 000 11 (115 11	Z	4.62	67.07	16.55		130.0	
10597- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	Х	4.77	66.98	16.56	0.46	130.0	± 9.6 %
<del></del>		Y	4.85	66.85	16.49		130.0	
40500		Z	4.57	66.94	16.41		130.0	
10598- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.75	67.19	16.80	0.46	130.0	± 9.6 %
		Y	4.83	67.08	16.74		130.0	1
		Z	4.56	67.16	16.67		130.0	
10599- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	Х	5.46	67.23	16.81	0.46	130.0	± 9.6 %
		Υ	5.53	67.13	16.74		130.0	
		Z	5.31	67.22	16.74	·	130.0	
10600- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.59	67.67	17.00	0.46	130.0	± 9.6 %
		Y	5.69	67.62	16.95		130.0	-
		Z	5.40	67.56	16.88	_	130.0	
10601- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.48	67.41	16.88	0.46	130.0	± 9.6 %
		Υ	5.56	67.33	16.83		130.0	
40000	1555 000 44 (1554)	Z	5.31	67.36	16.79		130.0	
10602- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.59	67.49	16.85	0.46	130.0	± 9.6 %
		Y	5.65	67.34	16.75		130.0	
10603-	IFFE 900 44. (UTAN)	Z	5.41	67.42	16.75		130.0	
AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.65	67.74	17.10	0.46	130.0	± 9.6 %
		Y	5.74	67.66	17.04		130.0	
10604-	IEEE 000 445 (UTA)	Z	5.48	67.71	17.02		130.0	
AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.49	67.31	16.87	0.46	130.0	± 9.6 %
		Y	5.53	67.10	16.74		130.0	
10605- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.37 5.58	67.37 67.57	16.83 17.01	0.46	130.0 130.0	± 9.6 %
		Y	E 05	07.44	40.00			
<del></del>		Z	5.65	67.44	16.92		130.0	
10606-	IEEE 802.11n (HT Mixed, 40MHz,		5.40	67.46	16.88		130.0	
AAA	MCS7, 90pc duty cycle)	X	5.32	66.88	16.52	0.46	130.0	± 9.6 %
		_ Y	5.42	66.88	16.50		130.0	
	<u> </u>	Z	5.18	66.90	<u>16.</u> 45		130.0	-

10607- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.63	66.06	16.24	0.46	130.0	± 9.6 %
		Υ	4.69	65.87	16.14		130.0	
		Z	4.48	66.14	16.16		130.0	··· · · · · · · · · · · · · · · · · ·
10608- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	Х	4.81	66.46	16.41	0.46	130.0	± 9.6 %
		Y	4.89	66.28	16.31		130.0	
		Z	4.62	66.47	16.30		130.0	
10609- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.70	66.31	16.25	0.46	130.0	± 9.6 %
		Y	4.78	66.14	16.15		130.0	
		Z	4.52	66.31	16.13		130.0	
10610- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	Х	4.75	66.46	16.40	0.46	130.0	± 9.6 %
		Y	4.83	66.29	16.31		130.0	
		Z	4.57	66.47	16.29		130.0	
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.67	66.27	16.25	0.46	130.0	± 9.6 %
		Υ	4.74	66.11	16.17		130.0	
		Z	4.48	66.27	16.14		130.0	
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	Х	4.68	66.43	16.31	0.46	130.0	± 9.6 %
		Y	4.76	66.26	16.21		130.0	
		Z	4.47	66.40	16.18		130.0	
10613- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.68	66.30	16.19	0.46	130.0	± 9.6 %
		Y	4.76	66.16	16.10		130.0	
		Z	4.47	66.22	16.03		130.0	
10614- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.62	66.47	16.40	0.46	130.0	± 9.6 %
		Y	4.70	66.33	16.32		130.0	
		Z	4.44	66.44	16.27		130.0	
10615- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.67	66.12	16.05	0.46	130.0	± 9.6 %
		Υ	4.75	65.95	15.95		130.0	
		Z	4.48	66.11	15.92		130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.28	66.50	16.42	0.46	130.0	± 9.6 %
		Y	5.35	66.40	16.35		130.0	
		Z	5.12	66.44	16.33		130.0	
10617- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	Х	5.35	66.70	16.50	0.46	130.0	±9.6%
		Y	5.42	66.55	16.40		130.0	
		Z	5.16	66.57	16.37		130.0	
10618- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.24	66.70	16.51	0.46	130.0	± 9.6 %
		Y	5.30	66.57	16.42		130.0	
		Z	5.08	66.64	16.42		130.0	
10619- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	Х	5.25	66.50	16.35	0.46	130.0	± 9.6 %
		Υ	5.33	66.41	16.28		130.0	
		Z	5.09	66.45	16.26		130.0	
10620- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.34	66.53	16.41	0.46	130.0	± 9.6 %
		Y	5.42	66.46	16.35		130.0	
		Z	5.16	66.45	16.31		130.0	
10621- AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	Х	5.34	66.65	16.59	0.46	130.0	± 9.6 %
		Y	5.41	66.55	16.51		130.0	
		Z	5.17	66.56	16.48		130.0	
10622- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.35	66.81	16.66	0.46	130.0	± 9.6 %
•	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1	F 10	00.74	40.50	† <del></del> -	1 400 0	1
		Y	5.42	66.71	16.59		130.0	1

10623- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.23	66.36	16.32	0.46	130.0	± 9.6 %
		Y	5.30	66.25	16.24	<del> </del>	130.0	<del>                                     </del>
		Z	5.05	66.22	16.17	<del> </del>	130.0	<del> </del>
10624- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	Х	5.42	66.55	16.47	0.46	130.0	± 9.6 %
		Υ	5.50	66.45	16.40		130.0	
4000		Z	5.25	66.47	16.36		130.0	
10625- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	5.75	67.41	16.95	0.46	130.0	± 9.6 %
		Y	5.89	67.51	16.98		130.0	
40000	IEEE 000 44 THE COST III	Z	5.34	66.63	16.50		130.0	
10626- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.59	66.56	16.38	0.46	130.0	± 9.6 %
		Y	5.64	66.46	16.31		130.0	
10627-	IEEE 000 44 1455 (0045) - 1400 (	Z	5.45	66.47	16.28		130.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.82	67.13	16.63	0.46	130.0	± 9.6 %
		Y	5.88	67.03	16.55		130.0	
10628-	IEEE 900 44 - WEE (90) III 1100	Z	5.67	67.05	16.54		130.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.61	66.64	16.32	0.46	130.0	± 9.6 %
		Y	5.68	66.59	16.27		130.0	
10000	IEEE 000 44 - MEE (000 H) - 1000	Z	5.44	66.46	16.18		130.0	
10629- _AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.69	66.69	16.34	0.46	130.0	±9.6 %
		Y	5.78	66.69	16.31		130.0	
10630-	IFFE COO AA DAWN (COLUMN ASSESSMENT)	Z	5.54	66.62	16.26		130.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	Х	6.09	68.10	17.05	0.46	130.0	± 9.6 %
		Y	6.25	68.29	17.11		130.0	
10004	LEET AND ALL THE COLUMN TO THE	Z	5.78	67.54	16.72		130.0	
10631- AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.99	67.90	17.13	0.46	130.0	± 9.6 %
		Y	6.12	67.99	17.15		130.0	
40000	JEET OOD ALL WEEK COMMENT	Z	5.75	67.56	16.92		130.0	
10632- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.79	67.18	16.78	0.46	130.0	± 9.6 %
		Υ	5.85	67.07	16.70		130.0	
40000	TEER OOD (1)	Z	5.67	67.21	16.76		130.0	
10633- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	Х	5.68	66.80	16.43	0.46	130.0	± 9.6 %
		Υ	5.74	66.74	16.37		130.0	
10634-	JEEE 000 44 - MEEL (0014)	<u> </u>	5.48	66.57	16.27		130.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Х	5.66	66.82	16.49	0.46	130.0	± 9.6 %
		Y	5.73	66.76	16.44		130.0	
10635-	IEEE 802.11ac WiFi (80MHz, MCS9,	Z	5.50	66.72	16.40		130.0	
AAA	90pc duty cycle)	Х	5.54	66.19	15.93	0.46	130.0	± 9.6 %
		Y	5.62	66.14	15.87		130.0	
10636-	IEEE 802 1100 WIE: (400 MIL. 1400)	Z	5.36	66.00	15.77		130.0	
AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.00	66.92	16.46	0.46	130.0	± 9.6 %
		Y	6.05	66.85	16.41		130.0	
10637- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Z X	5.88 6.16	66.82 67.31	16.36 16.64	0.46	130.0 130.0	± 9.6 %
<del></del>		Y	6.21	67.00	40.50		1000	
· .				67.23	16.58		130.0	
10638-	IEEE 802.11ac WiFi (160MHz, MCS2,	Z	6.00 6.16	67.12	16.50	0.46	130.0	
AAB	90pc duty cycle)			67.28	16.60	0.46	130.0	± 9.6 %
		Y	6.21	67.20	16.54		130.0	
		Z	6.02	67.18	16.51		130.0	

10639- AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.13	67.21	16.61	0.46	130.0	± 9.6 %
		Y	6.20	67.17	16.57		130.0	
	•	Z	5.98	67.06	16.49		130.0	
10640- AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	Х	6.13	67.23	16.57	0.46	130.0	± 9.6 %
-0		Y	6.21	67.21	16.53		130.0	
		Z	5.95	66.98	16.40		130.0	
10641- AAB	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.19	67.17	16.55	0.46	130.0	± 9.6 %
		Y	6.24	67.06	16.48		130.0	
		Z	6.04	67.04	16.44		130.0	
10642- AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	Х	6.22	67.37	16.82	0.46	130.0	± 9.6 %
		Y	6.28	67.33	16.77		130.0	
		Z	6.06	67.23	16.70		130.0	
10643- AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.06	67.09	16.58	0.46	130.0	± 9.6 %
		Υ	6.12	67.02	16.52		130.0	
		Z	5.91	66.93	16.45		130.0	
10644- AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	Х	6.20	67.52	16.82	0.46	130.0	± 9.6 %
		Υ	6.31	67.59	16.83		130.0	
		Z	5.97	67.13	16.57		130.0	
10645- AAB	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	Х	6.41	67.77	16.91	0.46	130.0	± 9.6 %
	ļ	Y	6.76	68.49	17.23		130.0	
		Z	6.10	67.18	16.56		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	32.54	128.38	44.23	9.30	60.0	± 9.6 %
		Y	33.21	124.21	42.28		60.0	
		Z	8.58	97.27	34.21		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	24.86	122.50	42.74	9.30	60.0	± 9.6 %
		Y	27.83	120.75	41.46		60.0	
	<del>-</del>	Z	7.33	94.04	33.20		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.71	63.99	11.07	0.00	150.0	± 9.6 %
		Y	0.72	63.38	11.01		150.0	
		Ż	0.57	62.72	9.40		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.64	67.29	16.91	2.23	80.0	± 9.6 %
		Y	3.79	67.25	16.93		80.0	
		Z	3.31	66.63	16.20		80.0	1
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.13	66.44	16.95	2.23	80.0	± 9.6 %
		Y	4.30	66.53	16.99		80.0	
		Z	3.84	65.89	16.44		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.11	66.04	16.93	2,23	80.0	± 9.6 %
		Y	4.26	66.17	16.97		80.0	
<u> </u>		Z	3.86	65.50	16.46		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.17	66.02	16.96	2.23	80.0	± 9.6 %
<u> </u>	Transport of the state of the s	Y	4.32	66.18	17.01		80.0	

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

# APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity  $\epsilon$  can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\varepsilon_{r}\varepsilon_{0}}{\left[\ln(b/a)\right]^{2}} \int_{a}^{b} \int_{a}^{b} \int_{0}^{a} \cos\phi' \frac{\exp\left[-j\omega r(\mu_{0}\varepsilon_{r}\varepsilon_{0})^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively,  $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$ ,  $\omega$  is the angular frequency, and  $j = \sqrt{-1}$ .

Table D-I
Composition of the Tissue Equivalent Matter

Frequency (MHz)	750	750	835	835	1750	1750	1900	1900	2450	2450	5200-5800	5200-5800
Tissue	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Ingredients (% by weight)												
Bactericide			0.1	0.1								
DGBE					47	31	44.92	29.44		26.7		
HEC	G		1	1								
NaCl	See page 2-3	See page 2	1.45	0.94	0.4	0.2	0.18	0.39	See page 4	0.1	See page 5	
Sucrose			57	44.9								
Polysorbate (Tween) 80												20
Water			40.45	53.06	52.6	68.8	54.9	70.17		73.2		80

FCC ID: ZNFQ710AL	PCTEST	SAR EVALUATION REPORT	LG	Approved by: Quality Manager
Test Dates:	DUT Type:			APPENDIX D:
04/29/18 - 05/15/18	Portable Handset			Page 1 of 5

#### 2 Composition / Information on ingredients

The Item is composed of the following ingredients:

H₂O Water, 35 – 58%

Sucrose Sugar, white, refined, 40 – 60% NaCl Sodium Chloride, 0 – 6%

Hydroxyethyl-cellulose Med

Medium Viscosity (CAS# 9004-62-0), <0.3%

Preventol-D7 Preservative: aqueous preparation, (CAS# 55965-84-9), containing

5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyyl-3(2H)-isothiazolone,

0.1 - 0.7%

Relevant for safety; Refer to the respective Safety Data Sheet*.

# Figure D-1 Composition of 750 MHz Head and Body Tissue Equivalent Matter

**Note:** 750MHz liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

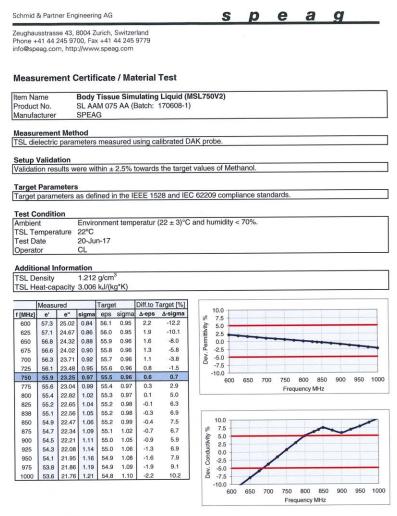


Figure D-2
750MHz Body Tissue Equivalent Matter

FCC ID: ZNFQ710AL	PCTEST:	SAR EVALUATION REPORT	(LG	Approved by:  Quality Manager
Test Dates:	DUT Type:			APPENDIX D:
04/29/18 - 05/15/18	Portable Handset			Page 2 of 5



Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

#### Measurement Certificate / Material Test

Item Name Head Tissue Simulating Liquid (HSL750V2)

Product No. SL AAH 075 AA (Batch: 170612-4) SPEAG Manufacturer

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Validation results were within ± 2.5% towards the target values of Methanol.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

**Test Condition** 

Operator

950 41.2

975 40.9 20.55 1.11

40.6

Ambient Environment temperatur (22 ± 3)°C and humidity < 70%. TSL Temperature 22°C Test Date 20-Jun-17

Additional Information

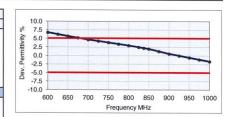
TSL Density 1.284 g/cm³ TSL Heat-capacity 2.701 kJ/(kg*K)

Diff.to Target [%] Measured Target f [MHz] e' e" sigma eps sigma Δ-eps ∆-sigma 600 45.6 22.97 0.77 42.7 625 45.2 22.73 0.79 42.6 0.88 6.2 -10.6 650 44.9 22.49 0.81 42.5 0.89 5.6 -8.2 0.84 42.3 0.89 5.1 -5.8 700 44.2 22.05 0.86 42.2 -3.5 725 43.8 21.88 0.88 42.1 0.89 -1.0 750 43.5 21.72 0.91 41.9 0.89 3.8 1.4 775 43.2 21.55 0.93 41.8 0.90 3.4 3.7 42.9 21.38 0.95 41.7 0.90 2.9 6.0 825 42.6 21.24 0.97 41.6 0.91 7.5 838 42.5 21.17 0.99 41.5 0.91 22 8.2 850 42.3 21.09 1.00 41.5 0.92 2.0 8.9 875 42.0 20.98 1.02 41.5 0.94 1.2 8.3 900 41.7 20.87 1.05 41.5 0.97 7.7 925 41.5 20.76 1.07 41.5 0.98 0.0 8.7

41.4 41.4 0.99 -0.6

1.00 -1.1

20.64 1.09



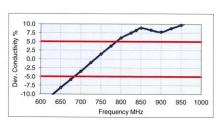


Figure D-3 750MHz Head Tissue Equivalent Matter

97

10.9

FCC ID: ZNFQ710AL	PCTEST SHOULD BE LADRAGET. INC.	SAR EVALUATION REPORT	(LG	Approved by:  Quality Manager
Test Dates:	DUT Type:			APPENDIX D:
04/29/18 - 05/15/18	Portable Handset			Page 3 of 5

#### 3 Composition / Information on ingredients

The Item is composed of the following ingredients:

50 - 73 % Water

25 - 50 % polyoxyethylenesorbitan monolaurate Non-ionic detergents

0-2% 0.05 - 0.1% Preventol-D7 Preservative

Safety relevant ingredients:

CAS-No. 55965-84-9 < 0.1 % aqueous preparation, containing 5-chloro-2-methyl-3(2H)-

isothiazolone and 2-methyyl-3(2H)-isothiazolone

<50 %

CAS-No. 9005-64-5 <50 % polyoxyethylenesorbitan monolaurate
According to international guidelines, the product is not a dangerous mixture and therefore not required to be marked by symbols.

#### Figure D-4 Composition of 2.4 GHz Head Tissue Equivalent Matter

Note: 2.4 GHz head liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

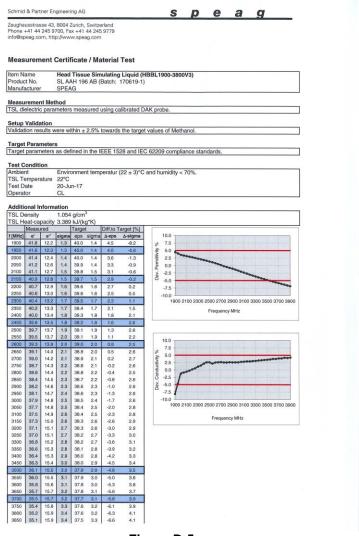


Figure D-5 2.4 GHz Head Tissue Equivalent Matter

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### 2 Composition / Information on ingredients

The Item is composed of the following ingredients:

 $\begin{array}{lll} \text{Water} & 50-65\% \\ \text{Mineral oil} & 10-30\% \\ \text{Emulsifiers} & 8-25\% \\ \text{Sodium salt} & 0-1.5\% \\ \end{array}$ 

Figure D-6

#### **Composition of 5 GHz Head Tissue Equivalent Matter**

**Note:** 5GHz head liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

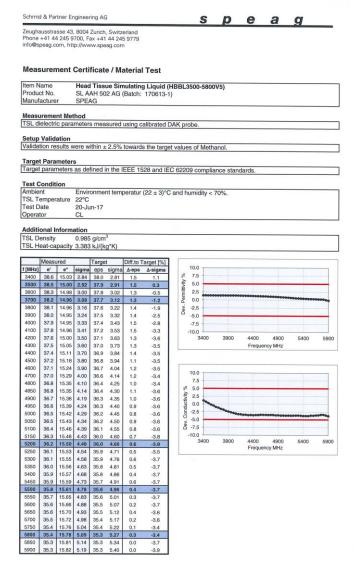


Figure D-7
5GHz Head Tissue Equivalent Matter

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## APPENDIX E: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table E-1
SAR System Validation Summary – 1q

SAR	FREQ.		PROBE	PROBE		ROBE CAL. POINT		PERM.	CI	W VALIDATIO	N	MC	DD. VALIDATIO	N
SYSTEM	[MHz]	DATE	SN	TYPE	PROBE C			(Er)	SENSITIVITY	PROBE	PROBE	MOD.	DUTY	PAR
#	[2]		0.1					(0.)	CENCITIVITI	LINEARITY	ISOTROPY	TYPE	FACTOR	. ,
E	750	3/11/2018	3213	ES3DV3	750	Head	0.890	40.788	PASS	PASS	PASS	N/A	N/A	N/A
E	835	3/5/2018	3213	ES3DV3	835	Head	0.925	43.335	PASS	PASS	PASS	GMSK	PASS	N/A
E	1750	3/2/2018	3213	ES3DV3	1750	Head	1.397	38.415	PASS	PASS	PASS	N/A	N/A	N/A
G	1900	8/31/2017	3332	ES3DV3	1900	Head	1.457	40.398	PASS	PASS	PASS	GMSK	PASS	N/A
G	2450	10/16/2017	3332	ES3DV3	2450	Head	1.880	38.615	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
Н	5250	1/31/2018	3589	EX3DV4	5250	Head	4.516	36.066	PASS	PASS	PASS	OFDM	N/A	PASS
Н	5750	1/31/2018	3589	EX3DV4	5750	Head	5.112	35.351	PASS	PASS	PASS	OFDM	N/A	PASS
Н	750	8/30/2017	7410	EX3DV4	750	Body	0.956	56.276	PASS	PASS	PASS	N/A	N/A	N/A
G	835	10/11/2017	3332	ES3DV3	835	Body	0.999	52.814	PASS	PASS	PASS	GMSK	PASS	N/A
1	1750	3/12/2018	3287	ES3DV3	1750	Body	1.462	52.350	PASS	PASS	PASS	N/A	N/A	N/A
J	1750	5/14/2018	3347	ES3DV3	1750	Body	1.516	52.662	PASS	PASS	PASS	N/A	N/A	N/A
J	1900	4/30/2018	3347	ES3DV3	1900	Body	1.529	53.419	PASS	PASS	PASS	GMSK	PASS	N/A
K	2450	4/3/2018	3319	ES3DV3	2450	Body	2.043	51.130	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K	2600	4/3/2018	3319	ES3DV3	2600	Body	2.225	50.665	PASS	PASS	PASS	TDD	PASS	N/A
D	5250	10/24/2017	7308	EX3DV4	5250	Body	5.405	48.529	PASS	PASS	PASS	OFDM	N/A	PASS
D	5750	10/24/2017	7308	EX3DV4	5750	Body	6.135	47.546	PASS	PASS	PASS	OFDM	N/A	PASS

Table E-2 SAR System Validation Summary – 10g

SAR	. FREQ.		PROBE	PROBE		PROBE CAL. POINT		PERM.	C	W VALIDATIO	N	MOD. VALIDATION		
SYSTE	и ГМНz1	DATE	SN	TYPE	PROBE C			ΟΙΝΤ (σ) (εr) S		PROBE	PROBE	MOD.	DUTY	PAR
#	[IVITZ]		SIN	TIPE						LINEARITY ISOTROPY		TYPE	FACTOR	PAR
D	5250	10/24/2017	7308	EX3DV4	5250	Body	5.405	48.529	PASS	PASS	PASS	OFDM	N/A	PASS
D	5750	10/24/2017	7308	EX3DV4	5750	5750 Body		47.546	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

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# APPENDIX G: POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

#### 1.1 Power Verification Procedure

The power verification was performed according to the following procedure:

- 1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
- Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
- 3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

## 1.2 WIFI Verification Summary

Table G-1
Power Measurement Verification WIFI

		Conducted F	ower (dBm)
Mechanism(s)	Mode/Band	Un-triggered (Max)	Mechanism #1 (Reduced)
Held-to-Ear	802.11b	19.62	16.91
Held-to-Ear	802.11a	17.42	16.57
Held-to-Ear	802.11n (5GHz, 20MHz BW)	17.64	16.62

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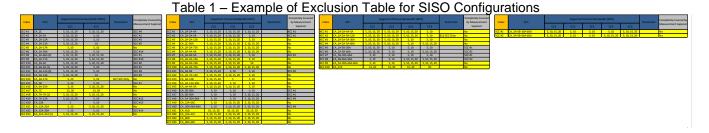
## APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

# 1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

#### LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.



### 1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

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#### General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KBD 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.
- When a device supports LTE capabilities with overlapping transmission frequency ranges, the standalone powers from the band with a larger transmission frequency range can be used to select measurement configurations for the band with the fully covered transmission frequency range.



Figure 1
SISO CA Power Measurement Setup

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# 1.3 SISO Downlink Carrier Aggregation RF Conducted Powers

# 1.3.1 **LTE Band 26 as PCC**

# Table 1 Maximum Output Powers

	PCC										SC		Power		
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_25A-26A	LTE B26	15	26865	831.5	QPSK	1	36	8865	876.5	LTE B25	20	8365	1962.5	25.20	25.15

## 1.3.2 **LTE Band 25 as PCC**

# Table 2 Maximum Output Powers

					IIIUAA	minaii	· Outpt	4t i O iii	J. U						
					PCC		SC		Power						
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL#	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_25A-25A	LTE B25	5	26365	1882.5	QPSK	1	24	8365	1962.5	LTE B25	10	8090	1935	24.67	24.62
CA 25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B26	15	8865	876.5	24.70	24.68

## 1.3.3 LTE Band 41 as PCC

# Table 3 Maximum Output Powers

									_						
	PCC								SCC 1				Power		
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	15	39750	2506	QPSK	1	36	39750	2506	LTE B41	20	39921	2523.1	24.15	24.15

## 1.3.4 LTE Band 41 PC2 as PCC

# Table 4 Maximum Output Powers

	PCC									SCC 1				Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506	QPSK	1	0	39750	2506	LTE B41 PC2	20	39948	2525.8	27.15	27.16

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