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Test report No.: KES-SR-18T0005 Page (29) of (41)

Appendix C. Probe & Dipole Antenna Calibration Certificates

The SPEAG calibration certificates are shown as follows.

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



S S

Schweizerischer Kalibrierdienst Service suisse d'étalonnage

- Servizio svizzero di taratura
- Swiss Calibration Service

Accreditation No.: SCS 0108

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

Client KES (Dymstec)

Certificate No: EX3-7359_Jan18

Object	EX3DV4 - SN:735	9	
Calibration procedure(s)	QA CAL-25.v6	A CAL-12.v9, QA CAL-14.v4, QA ure for dosimetric E-field probes	CAL-23.v5,
Calibration date:	January 25, 2018		A Q
All calibrations have been cond	ucted in the closed laboratory	bability are given on the following pages and facility: environment temperature $(22 \pm 3)^{\circ}C$ a	
Calibration Equipment used (M	&TE critical for calibration)		
	TE critical for calibration)	Cal Date (Certificate No.)	Scheduled Calibration
Primary Standards	1	Cal Date (Certificate No.) 04-Apr-17 (No. 217-02521/02522)	Scheduled Calibration Apr-18
Primary Standards Power meter NRP	ID	The second se	
Primary Standards Power meter NRP Power sensor NRP-Z91	ID SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91	ID SN: 104778 SN: 103244	04-Apr-17 (No. 217-02521/02522) 04-Apr-17 (No. 217-02521)	Apr-18 Apr-18
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator	ID SN: 104778 SN: 103244 SN: 103245	04-Apr-17 (No. 217-02521/02522) 04-Apr-17 (No. 217-02521) 04-Apr-17 (No. 217-02525)	Apr-18 Apr-18 Apr-18
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Reference Probe ES3DV2	ID SN: 104778 SN: 103244 SN: 103245 SN: S5277 (20x)	04-Apr-17 (No. 217-02521/02522) 04-Apr-17 (No. 217-02521) 04-Apr-17 (No. 217-02525) 07-Apr-17 (No. 217-02528)	Apr-18 Apr-18 Apr-18 Apr-18 Apr-18
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4	ID SN: 104778 SN: 103244 SN: 103245 SN: S5277 (20x) SN: 3013	04-Apr-17 (No. 217-02521/02522) 04-Apr-17 (No. 217-02521) 04-Apr-17 (No. 217-02525) 07-Apr-17 (No. 217-02528) 30-Dec-17 (No. ES3-3013_Dec17)	Apr-18 Apr-18 Apr-18 Apr-18 Dec-18
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards	ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 3013 SN: 660	04-Apr-17 (No. 217-02521/02522) 04-Apr-17 (No. 217-02521) 04-Apr-17 (No. 217-02525) 07-Apr-17 (No. 217-02528) 30-Dec-17 (No. ES3-3013_Dec17) 21-Dec-17 (No. DAE4-660_Dec17)	Apr-18 Apr-18 Apr-18 Apr-18 Dec-18 Dec-18
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards Power meter E4419B	ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 3013 SN: 660 ID	04-Apr-17 (No. 217-02521/02522) 04-Apr-17 (No. 217-02521) 04-Apr-17 (No. 217-02525) 07-Apr-17 (No. 217-02528) 30-Dec-17 (No. 217-02528) 30-Dec-17 (No. ES3-3013_Dec17) 21-Dec-17 (No. DAE4-660_Dec17) Check Date (in house)	Apr-18 Apr-18 Apr-18 Apr-18 Dec-18 Dec-18 Scheduled Check
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards Power meter E4419B Power sensor E4412A	ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 3013 SN: 660 ID SN: GB41293874	04-Apr-17 (No. 217-02521/02522) 04-Apr-17 (No. 217-02521) 04-Apr-17 (No. 217-02525) 07-Apr-17 (No. 217-02528) 30-Dec-17 (No. 217-02528) 30-Dec-17 (No. ES3-3013_Dec17) 21-Dec-17 (No. DAE4-660_Dec17) Check Date (in house) 06-Apr-16 (in house check Jun-16)	Apr-18 Apr-18 Apr-18 Apr-18 Dec-18 Dec-18 Scheduled Check In house check: Jun-18
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A	ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 3013 SN: 660 ID SN: GB41293874 SN: MY41498087	04-Apr-17 (No. 217-02521/02522) 04-Apr-17 (No. 217-02521) 04-Apr-17 (No. 217-02525) 07-Apr-17 (No. 217-02528) 30-Dec-17 (No. 217-02528) 30-Dec-17 (No. ES3-3013_Dec17) 21-Dec-17 (No. DAE4-660_Dec17) Check Date (in house) 06-Apr-16 (in house check Jun-16) 06-Apr-16 (in house check Jun-16)	Apr-18 Apr-18 Apr-18 Apr-18 Dec-18 Dec-18 Scheduled Check In house check: Jun-18 In house check: Jun-18
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C	ID SN: 104778 SN: 103244 SN: 103245 SN: S5277 (20x) SN: 3013 SN: 660 ID SN: GB41293874 SN: MY41498087 SN: 000110210	04-Apr-17 (No. 217-02521/02522) 04-Apr-17 (No. 217-02521) 04-Apr-17 (No. 217-02525) 07-Apr-17 (No. 217-02528) 30-Dec-17 (No. 217-02528) 30-Dec-17 (No. ES3-3013_Dec17) 21-Dec-17 (No. DAE4-660_Dec17) Check Date (in house) 06-Apr-16 (in house check Jun-16) 06-Apr-16 (in house check Jun-16)	Apr-18 Apr-18 Apr-18 Apr-18 Dec-18 Dec-18 Dec-18 Scheduled Check In house check: Jun-18 In house check: Jun-18 In house check: Jun-18
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Reference Probe ES3DV2 DAE4 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C Network Analyzer HP 8753E	ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 3013 SN: 660 ID SN: GB41293874 SN: MY41498087 SN: MY41498087 SN: 000110210 SN: US3642U01700	04-Apr-17 (No. 217-02521/02522) 04-Apr-17 (No. 217-02521) 04-Apr-17 (No. 217-02525) 07-Apr-17 (No. 217-02528) 30-Dec-17 (No. 217-02528) 30-Dec-17 (No. ES3-3013_Dec17) 21-Dec-17 (No. DAE4-660_Dec17) 21-Dec-17 (No. DAE4-660_Dec17) Check Date (in house) 06-Apr-16 (in house check Jun-16) 06-Apr-16 (in house check Jun-16) 06-Apr-16 (in house check Jun-16) 04-Aug-99 (in house check Jun-16)	Apr-18 Apr-18 Apr-18 Apr-18 Dec-18 Dec-18 Scheduled Check In house check: Jun-18 In house check: Jun-18 In house check: Jun-18 In house check: Jun-18

Approved by:

Technical Manager

Issued: January 25, 2018 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Katja Pokovic

Calibration Laboratory of

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



S Schweizerischer Kalibrierdienst

- C Service suisse d'étalonnage
- S Servizio svizzero di taratura
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Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization ϕ	φ rotation around probe axis
Polarization 9	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Connector Angle

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

Calibration is Performed According to the Following Standards:

- a) 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-
- 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:7359

Calibrated:

Manufactured: February 5, 2015 January 25, 2018

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7359

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.39	0.37	0.47	± 10.1 %
DCP (mV) ⁸	100.7	104.3	95.0	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	с	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	139.0	±3.0 %
		Y	0.0	0.0	1.0		125.3	
		Z	0.0	0.0	1.0	-	132.6	

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
Х	35.45	266.4	36.02	5.893	0.654	4.994	0.000	0.434	1.004
Y	31.64	230.0	34.03	6.962	0.102	5.049	1.788	0.034	1.007
Z	42.14	326.4	38.00	9.564	0.647	5.085	0.000	0.542	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.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7359

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
150	52.3	0.76	14.03	14.03	14.03	0.00	1.00	± 13.3 %
300	45.3	0.87	12.30	12.30	12.30	0.08	1.20	± 13.3 %
450	43.5	0.87	10.90	10.90	10.90	0.13	1.25	± 13.3 %
600	42.7	0.88	10.69	10.69	10.69	0.09	1.20	± 13.3 %
750	41.9	0.89	9.94	9.94	9.94	0.38	0.97	± 12.0 %
835	41.5	0.90	9.59	9.59	9.59	0.39	0.89	± 12.0 %
900	41.5	0.97	9.40	9.40	9.40	0.36	0.93	± 12.0 %
1750	40.1	1.37	8.53	8.53	8.53	0.36	0.80	± 12.0 %
1900	40.0	1.40	8.11	8.11	8.11	0.38	0.84	± 12.0 %
1950	40.0	1.40	7.84	7.84	7.84	0.32	0.89	± 12.0 %
2450	39.2	1.80	7.35	7.35	7.35	0.29	0.96	± 12.0 %
5200	36.0	4.66	5.23	5.23	5.23	0.35	1.80	± 13.1 %
5300	35.9	4.76	5.04	5.04	5.04	0.35	1.80	± 13.1 %
5500	35.6	4.96	5.03	5.03	5.03	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.86	4.86	4.86	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.99	4.99	4.99	0.40	1.80	± 13.1 %

Calibration Parameter Determined in Head Tissue Simulating Media

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the CorivF 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.

⁶ At frequencies below 3 GHz, the validity of tissue parameters (ε and α) can be relaxed to ± 10% if liguid 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.
⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

^o 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.

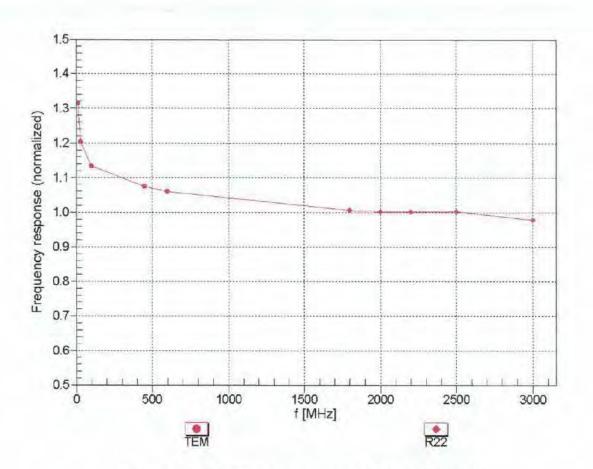
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
450	56.7	0.94	11.59	11.59	11.59	0.08	1.20	± 13.3 %
2450	52.7	1.95	7.40	7.40	7.40	0.33	0.90	± 12.0 %
5200	49.0	5.30	5.15	5.15	5.15	0.35	1.90	± 13.1 %
5300	48.9	5.42	4.96	4.96	4.96	0.35	1.90	± 13.1 %
5500	48.6	5.65	4.30	4.30	4.30	0.40	1.90	± 13.1 %
5600	48.5	5.77	4.13	4.13	4.13	0.40	1.90	± 13.1 %
5800	48.2	6.00	4.41	4.41	4.41	0.40	1.90	± 13.1 %

Calibration Parameter Determined in Body Tissue Simulating Media

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity 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 \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. ^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

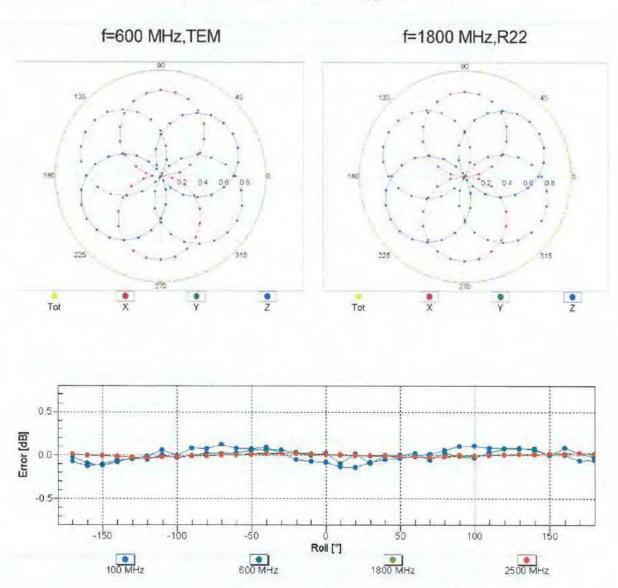
Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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



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

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

January 25, 2018

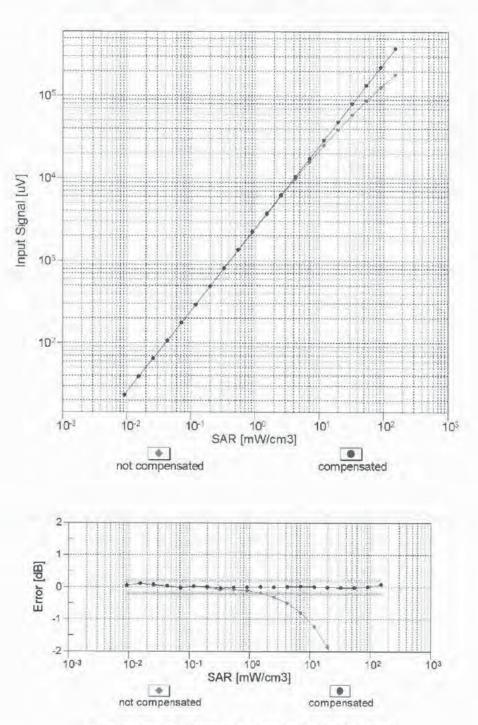


Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

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

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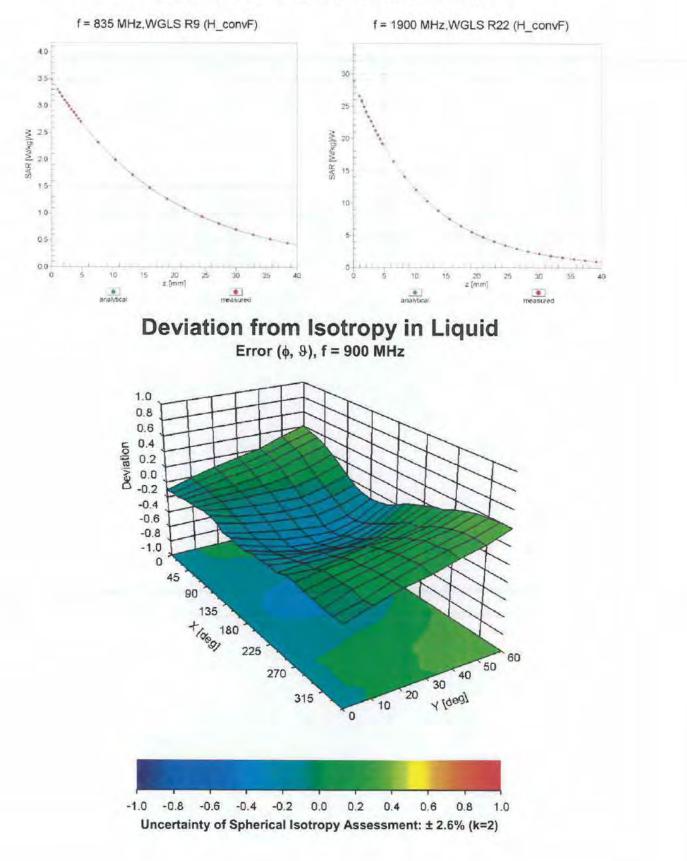
January 25, 2018



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

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

January 25, 2018



Conversion Factor Assessment

Certificate No: EX3-7359_Jan18

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7359

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-10.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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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	139.0	± 3.0 %
_		Y	0.00	0.00	1.00	1.1	125.3	
10010		Z	0.00	0.00	1.00		132.6	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	×	1.76	62.39	7.88	10.00	20.0	± 9.6 %
		Y	1.81	64.13	8.73		20.0	
		Z	2.16	65.13	9.84		20.0	
10011- CAB	UMTS-FDD (WCDMA)	×	0.90	67.32	14.70	0.00	150.0	± 9.6 %
		Y	1.02	68.87	15.82		150.0	
10012-	IEEE 000 11h WIE 0 4 OUL (DDDD 1	Z	0.95	67.71	15.01	0.44	150.0	
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.05	63.39	14.76	0.41	150.0	±9.6 %
		Y	1.12	64.24	15.43		150.0	-
10013-		Z	1.08	63.82	15.31	4.40	150.0	
CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	4.58	66.54	16.79	1.46	150.0	± 9.6 %
		Y	4.60	66.99	17.06	-	150.0	
10021-	GSM-FDD (TDMA, GMSK)	ZX	4.76	66.72	17.22	0.20	150.0	+0.0.00
DAC	GSM-FDD (TDIWA, GWSK)	Y		72.98	13.82	9.39	50.0	±9.6 %
		Z	100.00	108.92 113.33	24.33 26.95		50.0 50.0	
10023-	GPRS-FDD (TDMA, GMSK, TN 0)	X	4.21	71.42	13.22	9.57	50.0	± 9.6 %
DAC	SPRSTED (TDINK, SMSK, TRU)	Y	100.00	108.09	24.01	3.37	50.0	I 3.0 %
		Z	100.00	112.83	26.78		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	2.87	70.58	11.69	6.56	60.0	± 9.6,%
		Y	100.00	111.16	24.18		60.0	
		Z	100.00	112.66	25.43		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	3.49	65.09	22.37	12.57	50.0	± 9.6 %
		Y	4.61	75.98	29.76		50.0	
		Z	3.95	68.72	25.42		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	6.15	83.02	28.64	9.56	60.0	± 9.6 %
-		Y	6.20	85.98	31.18		60.0	
		Z	8.16	90.62	32,62	1.4.4	60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	2.16	69.93	10.63	4.80	80.0	±9.6 %
_		Y	100.00	116.42	25.61		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	112.94 67.41	24,67 8.98	3.55	80.0 100.0	± 9.6 %
DAG		Y	100.00	125.34	28.55		100.0	
		Z	100.00	113.00	23.91		100.0	
10029-	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	4.12	74.89	24.23	7.80	80.0	±9.6 %
DAC		Y	4.08	76.06	25.69		80.0	- 5.5 74
		Z	5.16	80.11	27.29		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	1.50	65.94	9.19	5.30	70.0	± 9.6 %
		Y	100.00	109.83	23.08		70.0	
		Z	100.00	110.51	23.95		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	0,23	60.00	3.94	1.88	100.0	± 9.6 %
		Y	100.00	123.24	26.08		100.0	
		Z	100.00	95.63	15.43		100.0	

Certificate No: EX3-7359_Jan18

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	32.43	60.71	1.45	1.17	100.0	± 9.6 %
		Y	100.00	153.62	36.38	-	100.0	
		Z	0.17	60.00	3.70		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	×	3.40	74.58	16.51	5.30	70.0	± 9.6 %
		Y	65.37	119.00	30.45		70.0	
1		Z	76.25	124.07	32.97		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	х	1.35	67.15	11.99	1.88	100.0	± 9.6 %
		Y	4.60	82.70	18.39	0.000	100.0	1
		Z	4.95	84.32	20.00		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	1.07	65.80	11.14	1.17	100.0	± 9.6 %
		Y	2.24	74.99	15.39		100.0	
		Ζ	2.26	74.99	16.30		100.0	1 Carlos
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Х	3.93	76.69	17.37	5.30	70.0	± 9.6 %
		Y	100.00	125.66	32.09		70.0	
		Z	100.00	128.73	34.15		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	1.27	66.55	11.71	1.88	100.0	± 9.6 %
		Y	3.41	79,32	17.28		100.0	
		Z	4.13	82,10	19.24		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	х	1.08	66.07	11.40	1.17	100.0	±9.6 %
		Y	2.31	75.66	15.80		100.0	
		Z	2.35	75,82	16.75		100,0	
10039- CAB	CDMA2000 (1xRTT, RC1)	x	1.04	66.45	11.21	0.00	150.0	±9.6 %
		Y	1.27	69.26	12.58		150.0	
		Z	1.39	69.12	13.18		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	2.13	66.24	9.98	7.78	50.0	±9.6 %
		Y	100.00	105.79	22.15		50.0	
		Z	100.00	108.43	23.84		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	×	0.11	125.00	2.69	0.00	150.0	±9.6 %
		Y	0.00	108.80	5.79		150.0	
1.1.1		Z	0.17	129.02	2.90	10000	150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	4.37	67.34	12.99	13.80	25.0	±9.6 %
		Y	32.51	91.35	20.60		25.0	
		Z	61.68	103.87	25.70		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	×	4,10	69.60	12.70	10.79	40.0	± 9.6 %
		Y	100.00	106.12	23.50		40.0	
		Z	100.00	111.64	26.63		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	x	6.95	78.72	18.31	9.03	50.0	± 9.6 %
		Y	100.00	119.59	30.59		50.0	
		Z	70.79	117.50	31.52		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	3.35	71.36	21.97	6.55	100.0	± 9.6 %
		Y	3.35	72.22	23.10		100.0	
		Z	4.04	75.37	24.48		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.05	64.10	15.12	0.61	110.0	± 9.6 %
		Y	1.14	65.17	16.00		110.0	-
		Z	1.12	65.08	16.06		110,0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	3.76	89.83	22.55	1.30	110.0	±9.6 %
		Y	61.29	138.60	37.11		110.0	
		Z	100.00	140.28	36.15		110.0	

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	1.72	73.57	18.90	2.04	110.0	± 9.6 %
		Y	2.29	79.80	22.57		110.0	_
1000		Z	3.72	87.40	25.20	1.000	110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.40	66.59	16.30	0.49	100.0	±9.6 %
		Y	4.41	66.97	16.48	-	100.0	
		Z	4.55	66.64	16.58		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.41	66.65	16.37	0.72	100.0	± 9.6 %
		Y	4.42	67.07	16.59	-	100.0	-
		Z	4.57	66.76	16.70	-	100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.64	66.83	16.55	0.86	100.0	± 9.6 %
		Y	4.65	67.24	16.77		100.0	
and the second		Z	4,83	67.00	16.92		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.51	66.66	16.60	1.21	100.0	± 9.6 %
		Y	4.52	67.07	16.84		100.0	
		Z	4.71	66.91	17.04		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	x	4.51	66.62	16.72	1.46	100.0	± 9.6 %
		Y	4.52	67.05	16.99	1	100.0	1.2.2.2
		Z	4.73	66.94	17.22		100.0	-
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	4.80	66.87	17.17	2.04	100.0	± 9.6 %
		Y	4.80	67.30	17.46	1	100.0	
		Z	5.03	67.18	17.70		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	х	4.82	66.75	17.29	2.55	100.0	±9.6 %
		Y	4.83	67.21	17.63		100.0	
		Z	5.06	67.17	17.91		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	4.89	66.79	17.48	2.67	100.0	± 9.6 %
		Y	4.88	67.21	17.79		100.0	
		Z	5.14	67.19	18.11	1000	100.0	-
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.67	66.56	17.04	1.99	100.0	± 9.6 %
		Y	4.69	67.04	17.35		100.0	
		Z	4.86	66.81	17.53	1	100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.61	66.77	17.19	2.30	100.0	± 9.6 %
		Y	4.64	67.26	17.54		100.0	
		Z	4.83	67.14	17.77		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.67	66.91	17.48	2.83	100.0	± 9.6 %
		Y	4.70	67.44	17.88		100.0	
		Z	4.90	67.33	18.12		100.0	
10074- CAB	IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	×	4.67	66.83	17.61	3.30	100.0	±9.6 %
		Y	4.70	67.40	18.05		100.0	
		Z	4.89	67.24	18.27		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.69	66.83	17.83	3.82	90.0	±9.6 %
		Y	4.72	67.38	18.29		90.0	
		Z	4.92	67.32	18.58		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.73	66.71	17.99	4.15	90.0	± 9.6 %
		Y	4.75	67.24	18.45		90.0	
		Z	4.94	67.13	18.71		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	x	4.76	66.80	18.10	4.30	90.0	± 9.6 %
		Y	4.79	67.33	18.57	1	90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	X	0.49	62.00	8.28	0.00	150.0	±9.6 %
		Y	0.58	64.01	9.65		150.0	
		Z	0.60	63.39	9.74		150.0	1
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	0.64	60.00	3.23	4.77	80.0	± 9.6 %
		Y	0.56	60.00	3.44		80.0	
		Z	1.25	62.58	4.99		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	×	2.92	70.70	11.76	6.56	60.0	±9.6 %
		Y	100.00	111.18	24.20		60.0	
		Z	100.00	112.79	25.51		60.0	1.
10097- CAB	UMTS-FDD (HSDPA)	×	1.73	68.31	15.39	0.00	150.0	±9.6 %
		Y	1.87	69.70	16.10		150.0	
		Z	1.75	68.01	15.55		150.0	-
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.69	68.24	15.36	0.00	150.0	±9.6 %
2.2.2		Y	1.83	69.64	16.09		150.0	
		Z	1.71	67.96	15.52		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	×	6.19	83.12	28.67	9.56	60.0	± 9.6 %
		Y	6.25	86.17	31.25		60.0	
		Z	8.22	90.77	32.68		60.0	
10100- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	×	2.89	70.06	16.55	0.00	150.0	±9.6 %
		Y	2.97	70.72	16.99		150.0	
		Z	3.00	70.19	16.64		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.02	67.29	15.76	0.00	150.0	±9.6 %
		Y	3.06	67.69	15.99		150.0	
		Z	3.11	67.33	15.87		150.0	1.000
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.13	67.33	15.88	0.00	150.0	± 9.6 %
		Y	3.16	67.71	16.09		150.0	
	Law and a some a second second	Z	3.22	67.32	15.98		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	×	4.96	72.83	19.04	3.98	65.0	± 9.6 %
		Y	5.32	75.22	20.56		65.0	
		Z	5.98	75.96	20.92		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	×	5.07	70.97	18.96	3.98	65.0	± 9.6 %
		Y	5.21	72.33	19.93		65.0	
		Z	5.76	73.13	20,47		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	×	4.87	70.00	18.82	3.98	65.0	±9.6 %
		Y	5.22	72.16	20.15		65.0	
		Z	5.41	71.65	20.10		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	2.49	69.43	16.39	0.00	150.0	± 9.6 %
		Y	2.55	70.12	16.84		150.0	
		Z	2.60	69.55	16.50		150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	×	2.67	67.28	15.61	0.00	150.0	±9.6 %
		Y	2,71	67.80	15.89		150.0	
		Z	2.76	67.27	15.76		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	×	1.97	68.63	15.82	0.00	150.0	± 9.6 %
		Y	2.04	69.50	16.34		150.0	
		Z	2.08	68.76	16.04		150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	×	2.42	68.64	15.88	0.00	150.0	± 9.6 %
		Y	2.51	69.52	16.27		150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.80	67.37	15.71	0.00	150.0	± 9.6 %
		Y	2.83	67,89	15.97		150.0	
		Z	2.88	67.29	15.83		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	х	2.57	68.86	16.05	0.00	150.0	±9.6 %
		Y	2.65	69.69	16.40	-	150.0	-
		Z	2.65	68.56	16.19		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	4.88	67.07	16.36	0.00	150.0	± 9.6 %
1.00		Y	4.87	67.28	16.43		150.0	
		Z	5.01	67.10	16.49		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.13	67.14	16.40	0.00	150.0	± 9.6 %
		Y	5.09	67.29	16.43		150.0	
	a second s	Z	5.27	67.17	16.54		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	x	4.96	67.26	16.39	0.00	150.0	± 9.6 %
		Y	4.94	67.43	16.43		150.0	
		Z	5.10	67.28	16.51		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	4.87	67.01	16.35	0.00	150.0	± 9.6 %
		Y	4.85	67.20	16.40	1000	150.0	
		Z	4.98	66.96	16.44		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	х	5.20	67.33	16.50	0.00	150.0	± 9.6 %
		Y	5.16	67.46	16.52		150.0	
		Z	5.36	67.40	16.66		150.0	1
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	x	4.96	67.26	16.39	0.00	150.0	± 9.6 %
		Y	4.94	67.45	16.45		150.0	
		Z	5.09	67.26	16.51		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	х	3.15	67.33	15.78	0.00	150.0	± 9.6 %
		Y	3.18	67.74	16.00		150.0	
		Z	3.24	67.32	15.89		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.28	67.53	16.00	0.00	150.0	± 9.6 %
		Y	3.31	67.93	16.21		150.0	
		Z	3.37	67.46	16.09	1	150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	×	1.72	68.46	15.02	0.00	150.0	± 9.6 %
	a sout	Y	1.82	69.64	15.63		150.0	
		Z	1.85	68.69	15.45		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	×	2.20	68.85	14.85	0.00	150.0	±9.6 %
		Y	2.33	70.04	15.31		150.0	
		Z	2.32	68.91	15.36		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	1.85	65.56	12.66	0.00	150.0	±9.6 %
		Y	1.86	66.08	12.82	1	150.0	1.2.2.1
		Z	2.02	66.03	13.41		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	0.67	60.44	7.07	0.00	150.0	±9.6 %
		Y	0,65	60.62	7.06		150.0	
		Z	0.86	62.05	8.88		150.0	-
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	x	0.89	59.92	6.18	0.00	150.0	±9.6 %
		Y	0.87	60.00	5.83		150.0	
		Z	1.36	62.91	9.10		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	0.93	60.19	6.43	0.00	150.0	±9.6 %
		Y	0.90	60.28	6.07		150.0	

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2,68	67.36	15.67	0.00	150.0	± 9.6 %
		Y	2.72	67.88	15.94		150.0	
		z	2.77	67.34	15.81		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	x	2.81	67.44	15.76	0.00	150.0	±9.6 %
		Y	2.85	67.96	16.02		150.0	
		Z	2.89	67.36	15.88		150.0	1000
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	х	5.04	74.91	19.90	3.98	65.0	±9.6 %
		Y	5.79	78.74	22.03		65.0	1000
		Z	6.46	79.20	22.32		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	×	4.57	70.70	18.37	3,98	65.0	± 9.6 %
		Y	4.75	72.38	19.50		65.0	
		Z	5.32	73.23	20.17		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	x	4.94	71.90	19.31	3.98	65.0	±9.6%
1		Y	5.15	73.65	20.44		65.0	
		Z	5.71	74.35	21.04	1.1.1	65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	×	2.02	69.09	16.10	0.00	150.0	±9.6 %
		Y	2.09	69.95	16.61		150.0	
		Z	2.14	69.22	16.32		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	x	2.43	68.68	15.91	0.00	150.0	±9.6 %
		Y	2.52	69.58	16.31		150.0	
		Z	2.50	68.41	16.06		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	x	1.52	68.02	14.29	0.00	150.0	±9.6 %
		Y	1.63	69.34	14.95		150.0	
		Z	1.67	68.54	14.97		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	x	1.63	65.53	12.18	0.00	150.0	± 9.6 %
		Y	1.65	66.13	12.36		150.0	
		Z	1.83	66.32	13.17		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.59	68.96	16.11	0.00	150.0	±9.6 %
		Y	2.67	69.80	16.47		150.0	
		Z	2.65	68.64	16.25		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	x	1.71	65.86	12.39	0.00	150.0	±9.6 %
		Y	1.73	66.47	12.56		150.0	
		Z	1.92	66.72	13.43		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	×	2.53	68.80	16.21	0.00	150.0	±9.6 %
		Ŷ	2.57	69.34	16.54		150.0	
		Z	2,66	68.92	16.38		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	х	2.69	67.41	15.63	0.00	150.0	±9.6 %
		Y	2.73	67.96	15.89		150.0	
		Z	2.79	67.32	15.78		150.0	1.200
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	×	2.81	67.66	15.79	0.00	150.0	± 9.6 %
		Y	2.85	68.22	16.04		150.0	
		Z	2.90	67.52	15.92		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.06	68.50	18.53	3.01	150.0	±9.6 %
		Y	3.22	70.13	19.55		150.0	
		Z	3.42	69.73	19.41		150.0	
10167-	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	3.55	70.77	18.68	3.01	150.0	±9.6 %
CAE								
CAE		Y	4.12	74.64	20.60		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.06	73.70	20.42	3.01	150.0	± 9.6 %
		Y	4.96	78.65	22.69		150.0	
		Z	4.74	75.42	21.41		150.0	-
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.47	66.76	17.70	3.01	150.0	± 9.6 %
		Y	2.71	69.35	19.22	-	150.0	
		Z	2.78	68.44	18.85		150.0	1
10170-	LTE-FDD (SC-FDMA, 1 RB, 20 MHz,	X	3.12	71.65	19.80	3.01	150.0	± 9.6 %
CAD	16-QAM)	Y	4.29		23.17	3,01		1 9.0 %
				79.13			150.0	
10171-	ITE EDD (00 EDMA 1 DD 00 MUL	Z	3.77	74.33	21.25		150.0	
AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	×	2.56	67.62	16.85	3.01	150.0	± 9.6 %
		Y	3.16	72.64	19.33		150.0	1.0
		Z	3.05	69.84	18.20		150.0	1000
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.50	76.18	22.35	6.02	65.0	± 9.6 %
		Y	3.71	80.89	25.81		65.0	
		Z	6.60	88.88	28.48		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.86	79.81	21.87	6.02	65.0	± 9.6 %
		Y	20.82	111.33	33.41		65.0	
		Z	16.34	102.33	30.79		65.0	
10174-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	X	3.29	73.09	18.77	6.02	65.0	± 9.6 %
CAD	64-QAM)					0.02		1 5.0 %
_		Y	16.89	105.70	31.04		65.0	
40475		Z	11.81	95.03	27.91		65.0	
10175- LTE-FDD (SC-FDMA, 1 RB, 10 MHz, CAE QPSK)	×	2.44	66.46	17.44	3.01	150.0	±9,6 %	
		Y	2.67	69.00	18.95		150.0	
		Z	2.75	68.11	18.58		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.12	71.67	19,81	3.01	150.0	±9.6 %
		Y	4.30	79.16	23.19		150.0	1.
		Z	3.77	74.35	21.26		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.46	66.59	17.53	3.01	150.0	± 9.6 %
		Y	2.69	69.14	19.03	-	150.0	
		Z	2.77	68.26	18.68		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	3.10	71,51	19.71	3.01	150.0	± 9.6 %
Unic	SE OVI	Y	4.26	78.93	23.07	-	150.0	-
		Z	3.74	74.14	21.14		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	2.80	69.45	18.15	3.01	150.0	±9.6 %
	S. C. Sectory	Y	3.66	75.67	21.09		150.0	
-		Z	3.37	71.93	19.58		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	2.56	67.58	16.81	3.01	150.0	± 9.6 %
ONL	sentry	Y	3.16	72.58	19.29		150.0	
		Z					150.0	
10181-	TEEDD /SC EDMA 4 DD 46 MU		3.05	69.78	18.16	2.04	150.0	+0.0.04
CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz. QPSK)	x	2.45	66.57	17.52	3.01	150.0	± 9.6 %
		Y	2.69	69.12	19.02		150.0	
		Z	2.76	68.25	18.67		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.10	71.49	19.70	3.01	150.0	± 9.6 %
		Y	4.25	78.89	23.06		150.0	
		Z	3.73	74.12	21.13		150.0	
	A CARD THE REPORT OF A DRIVE OF A		2.56	67.56	16.80	3.01	150.0	± 9.6 %
		×	2.00	07.00	10.00	0.01	100.0	20.0 10
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Y	3.15	72.56	19.27	0.01	150.0	20.0 10

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.46	66.61	17.54	3.01	150.0	± 9.6 %
		Y	2.70	69.17	19.04		150.0	
		Z	2.77	68.29	18.69	1	150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	3.11	71.56	19.74	3.01	150.0	± 9.6 %
		Y	4.27	79.00	23.11		150.0	1
		Z	3.75	74.19	21.17		150.0	
10186-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-	X	2.57	67.62	16.83	3.01	150.0	± 9.6 %
AAD	QAM)	Y	3.17	72.64	19.31		150.0	0.000
-		Z	3.05	69.82	18.18		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	x	2.47	66.69	17.63	3.01	150.0	±9.6 %
		Y	2.71	69.27	19.14	1	150.0	1
		Z	2,78	68.36	18.77		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	x	3.20	72.18	20.13	3.01	150.0	±9.6 %
		Y	4.47	79.97	23.61		150,0	
		Z	3.87	74.90	21.58		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	x	2.62	67.98	17.10	3.01	150.0	± 9.6 %
		Y	3.26	73.21	19.66		150.0	
		Z	3.12	70.25	18.47		150.0	-
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.29	66.72	16.06	0.00	150.0	±9.6 %
		Y	4.29	67.06	16.16		150.0	
		Z	4.38	66.54	16.14	-	150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.43	66.96	16.19	0.00	150.0	±9.6 %
		Y	4.42	67.26	16.28	-	150.0	
		Z	4.54	66.83	16.28		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	x	4.46	66.98	16.21	0.00	150.0	± 9.6 %
		Y	4.45	67.26	16.29		150.0	
		Z	4.58	66.86	16.30		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.27	66.72	16.04	0.00	150.0	± 9.6 %
		Y	4.27	67.04	16.13		150.0	
		Z	4.38	66.58	16.15	1.00	150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	х	4.44	66.96	16.20	0.00	150.0	± 9.6 %
		Y	4.42	67.26	16.29		150.0	
		Z	4.55	66.84	16.29		150.0	1.000
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	×	4,46	66.98	16.21	0.00	150.0	± 9.6 %
		Y	4.44	67.25	16.29		150.0	1
		Z	4.58	66.87	16.31		150.0	11000
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.23	66.76	16.02	0.00	150.0	± 9.6 %
		Y	4.22	67.09	16.12		150.0	
1.000		Z	4.33	66.60	16.11	1000	150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	×	4.43	66.93	16.18	0.00	150.0	±9.6 %
		Y	4.42	67.22	16.27		150.0	
		Z	4.54	66.81	16.28		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64- QAM)	×	4.47	66.92	16.20	0.00	150.0	± 9.6 %
		Y	4.46	67.20	16.28		150.0	
		Z	4.59	66.80	16.29		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	4.84	67.00	16.34	0.00	150.0	±9.6 %
		Y	4.83	67.19	16.39		150.0	

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16- QAM)	×	5.11	67.19	16.45	0.00	150.0	± 9.6 %
		Y	5.06	67.31	16.46		150.0	
		Z	5.25	67.20	16.57		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64- QAM)	×	4.88	67.11	16.32	0.00	150.0	±9.6 %
		Y	4.87	67.33	16,39		150.0	
		Z	4,99	67.05	16.40		150.0	-
10225- CAB	UMTS-FDD (HSPA+)	X	2.56	66.15	14.78	0.00	150.0	± 9.6 %
		Y	2.59	66.68	14,92		150.0	
		Z	2.65	66.05	15.09		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	5,12	80.77	22.32	6.02	65.0	± 9.6 %
		Y	25.12	115.08	34.54		65.0	2
		Z	18.11	104.42	31.51		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	4.95	79.32	21,15	6.02	65.0	± 9.6 %
		Y	26.43	113.50	33.19		65.0	
		Z	18.24	102.76	30.30		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	×	3.98	78.91	23.52	6.02	65.0	± 9.6 %
		Y	5.15	87.83	28.49		65.0	
		Z	8.76	95.25	30.80		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	4.89	79.90	21.91	6.02	65.0	± 9.6 %
		Y	21.13	111.57	33.48		65.0	1
		Z	16.48	102.45	30.84	_	65.0	
	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	×	4.70	78.46	20.75	6.02	65.0	± 9.6 %
		Y	21.57	109.76	32.10		65.0	
-		Z	16.44	100.79	29.64		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.85	78.19	23.15	6.02	65.0	±9.6 %
		Y	4,90	86.72	28.00		65.0	
		Z	8.28	93.96	30.28		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	×	4.89	79.89	21.90	6.02	65.0	±9.6 %
		Y	21.06	111.53	33.47		65.0	
		Z	16.44	102.43	30.83		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	4.69	78.44	20.74	6.02	65.0	±9.6 %
		Y	21.39	109.63	32.07		65.0	
		Z	16.38	100.74	29.63		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	×	3.74	77.57	22.78	6.02	65.0	± 9.6 %
		Y	4.74	85.92	27,57		65.0	
		Z	7.92	92.90	29.80		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	×	4.89	79.90	21.91	6.02	65.0	±9.6 %
		Y	21.12	111,61	33.49		65.0	
		Z	16.49	102.50	30.85	1.1	65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.73	78.54	20.78	6.02	65.0	± 9.6 %
		Y	22.01	110.07	32.18		65,0	
		Z	16,65	100.99	29.70		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.84	78.20	23.16	6.02	65.0	±9.6 %
		Y	4.89	86.73	28.01		65.0	
		Z	8.29	94.04	30.31		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	×	4.87	79.86	21.89	6.02	65.0	± 9.6 %
		Y	20.00	444 60	33.46		OF A	
		1 1	20.99	111.50	33,40		65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.68	78.40	20.73	6.02	65.0	± 9.6 %
		Y	21.23	109.53	32.04		65.0	
-		Z	16.32	100.69	29.62		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	×	3.83	78.18	23.14	6.02	65.0	± 9.6 %
		Y	4.88	86.72	28.00		65.0	
		Z	8.26	93.99	30.29	1	65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	6.09	77.28	23.28	6.98	65.0	± 9.6 %
2.2.		Y	7.20	83.44	26.65		65.0	
	The second se	Z	7.67	81.42	25.83		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.60	75.67	22.52	6.98	65.0	± 9.6 %
		Y	5.99	79.64	25.07		65.0	
		Z	6.95	79.32	24.87		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	×	4.77	73.01	22.25	6.98	65.0	± 9.6 %
		Y	4.74	74.65	23.80		65.0	
		Z	5.57	75.52	24.15		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.96	66.44	12.48	3.98	65.0	± 9.6 %
		Y	3.55	69.95	14.20		65.0	
		Z	5.53	75.69	18,20	-	65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.93	66.08	12.25	3.98	65.0	± 9.6 %
		Y	3.39	69.08	13.74		65.0	
		Z	5.26	74.64	17.70		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	x	2.73	68.79	14.10	3.98	65.0	± 9.6 %
		Y	3.64	74.07	16.73		65.0	
		Z	5.55	79.56	19.93		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	x	3.31	68.36	14.74	3,98	65.0	±9.6 %
		Y	3.69	71,04	16.17		65.0	
		Z	4.60	73.53	18.25		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	3.31	67.93	14.53	3.98	65.0	± 9.6 %
		Y	3.56	70.05	15.69		65.0	
		Z	4.51	72.68	17.85	1.2.2.1	65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	x	3.95	74.21	17.82	3.98	65.0	± 9.6 %
		Y	5.84	81.98	21.36		65.0	
		Z	7.43	84.91	23.13		65.0	-
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	4.48	72.72	19.02	3.98	65.0	± 9.6 %
		Y	4.91	75.48	20.58		65.0	
		Z	5.54	76.44	21.48		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	×	4.24	70.56	17.62	3.98	65.0	± 9.6 %
		Y	4.48	72.59	18.84		65.0	
1000		Z	5.16	73.76	19.90		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	×	4.83	76.61	20.33	3.98	65.0	± 9.6 %
		Y	6.11	82.35	23.18		65,0	
		Z	7.04	83.35	23.83		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	×	4.51	70.37	18.12	3.98	65.0	± 9.6 %
		Y	4.69	72.06	19.21		65.0	1000
		Z	5.22	72.74	19.89		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	x	4.83	71.40	18.92	3.98	65.0	±9.6 %
		Y	5.03	73.12	20.00		65.0	
			0.00	13.12	20.00		00.0	1

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10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	4.84	74.35	19.81	3.98	65.0	± 9.6 %
		Y	5.46	77.86	21.79		65.0	1
		Z	6.09	78.32	22.16		65.0	-
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.18	63.01	9.47	3.98	65.0	± 9.6 %
		Y	2.21	64.06	9.94		65.0	-
		Z	3.71	69.55	14.30		65.0	
10257-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	2.17	62.72	9.21	3.98	65.0	1000
CAA	MHz, 64-QAM)	Y	2.16	63.51		5.90		± 9,6 %
		Z	3.54		9.53		65.0	-
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.93	68.55 64.16	13.71 10.65	3.98	65.0 65.0	± 9,6 %
		Y	2.09	66.10	11.78		65.0	-
		Z	3.41	71.70	15.65		65.0	-
10259-	LTE-TDD (SC-FDMA, 100% RB, 3 MHz,	X	3.76	70.10	16.35	3.98	and the second s	1000
CAB	16-QAM)	Y				3.90	65.0	± 9.6 %
			4.22	73.04	17.92		65.0	
10260-	LTE-TDD (SC-FDMA, 100% RB, 3 MHz,	Z	5.00	74.77	19.49	0.00	65.0	
CAB	64-QAM)	X	3.80	69.89	16.25	3.98	65.0	± 9.6 %
-		Y	4.21	72.61	17.71		65.0	
10261-	LTE TOD (OO FOUL JOON OF ALM	Z	4.99	74.35	19.30		65.0	
CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	×	4.17	74.68	18.62	3.98	65.0	± 9.6 %
_		Y	5.64	81.22	21.73		65.0	
10000		Z	6.71	82.95	22.95		65.0	
	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	x	4.46	72.64	18.96	3.98	65.0	±9.6 %
		Y	4.88	75.38	20.51		65.0	
	1	Z	5.52	76.36	21.42		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	4.23	70.54	17.61	3.98	65.0	±9.6 %
		Y	4.48	72.57	18.84		65.0	
		Z	5.15	73.73	19.89		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	4.78	76.39	20,22	3.98	65.0	± 9.6 %
		Y	6.02	82.06	23.05	-	65.0	
		Z	6.95	83.07	23.70	-	65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	x	4.56	70.71	18.38	3.98	65.0	± 9.6 %
		Y	4.75	72.39	19.50		65.0	-
		Z	5.32	73.23	20.17		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	4.93	71.88	19.30	3.98	65.0	± 9.6 %
		Y	5.14	73.63	20.43		65.0	
		Z	5.71	74.33	21.03		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	5.04	74.86	19.88	3.98	65.0	± 9.6 %
		Y	5,78	78.68	22.00		65.0	
		Z	6.44	79.14	22.29		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	x	5.25	71.05	19.09	3.98	65.0	± 9.6 %
		Y	5.38	72.38	20.02		65.0	
		Z	5.91	73.00	20.50		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	5.27	70.75	18.99	3.98	65.0	± 9.6 %
		Y	5,40	72.02	19.87		65.0	
		Z	5.90	72.55	20.35		65.0	
10270-	LTE-TDD (SC-FDMA, 100% RB, 15	×	5.20	72.93	19.29	3.98	65.0	± 9.6 %
	MHz. QPSK)							
CAD	MHz, QPSK)	Y	5.61	75.41	20.81	-	65.0	

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10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.40	66.73	14.81	0.00	150.0	± 9.6 %
	12000000	Y	2.46	67.44	15.08		150.0	-
		Z	2.47	66.54	15.05		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	x	1.45	67.96	15.09	0.00	150.0	± 9.6 %
		Y	1.56	69.25	15.88		150.0	
		Z	1.51	68.06	15.34		150.0	
10277-	PHS (QPSK)	X	1.72	59.68	5.16	9.03	50.0	± 9.6 %
CAA		Y	1.39	59.21	4.47		50.0	
		Z	1.96	60.92	6.55	-	50.0	
10278-	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	2.71	64.20	9.95	9.03	50.0	± 9.6 %
CAA		Y	2.63	65.15	10.31	0.00	50.0	2 0.0 70
		Z	4.09	70.38	14.19		50.0	-
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	2.78	64.39	10.11	9.03	50.0	± 9.6 %
Q1 4 1		Y	2.69	65.37	10.49		50.0	
		Z	4.22	70.71	14.40	-	50.0	
10290-	CDMA2000, RC1, SO55, Full Rate	X	0.81	63.73	9.57	0.00	150.0	± 9.6 %
AAB		Y	0.87	65.03	10.31	0.00	150.0	10.0 /0
		Z	1.05	65.77	11.33		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	0.48	61.86	8.18	0.00	150.0	± 9.6 %
AAD		Y	0.57	63.79	9.51	-	150.0	
		Z	0.57	63.20	9.51		150.0	
10292-	CDMA2000, RC3, SO32, Full Rate	X	0.62			0.00	150.0	1000
AAB	CDMA2000, RC3, SO32, Pull Rate			65.11	10.22	0.00	150.0	±9.6 %
		Y	1.07	71.24	13.29		150.0	-
10000		Z	0.78	67.18	11.95		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	1.52	74.83	14.78	0.00	150.0	± 9.6 %
		Y	49.40	114.74	26.04		150.0	
10000		Z	1.86	77.63	16.69	_	150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	×	8.80	80.94	19.99	9.03	50.0	± 9.6 %
		Y	35.98	104.53	27.77		50.0	
		Z	16.87	94.73	26.47	1.0.001	50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.50	69.56	16.47	0.00	150.0	± 9.6 %
		Y	2.56	70.25	16.92		150.0	
		Z	2.62	69.67	16.58		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	х	1.03	64.23	10.74	0.00	150.0	±9.6 %
		Y	1.06	64.97	11.09		150.0	
		Z	1.25	65.79	12.22		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	×	1.34	62.92	9.22	0.00	150.0	±9.6 %
		Y	1.46	64.09	9.47		150.0	
		Z	2.13	67.58	12.68		150.0	S
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	×	1.12	60.81	7.35	0.00	150.0	± 9.6 %
		Y	1.11	61.10	7.16		150.0	
		Z	1.56	63.23	9.75		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.35	65.33	17.07	4.17	50.0	± 9.6 %
		Y	4.33	65.65	17.13		50.0	
		Z	4.75	66.18	17.73		50.0	
				The second se		4.96	50.0	± 9.6 %
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	4.77	65,67	17.64	4.90	50.0	I 9.0 %
	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X Y	4.77	65.67 66.02	17.64	4.90	50.0	I 9.0 %

10303- AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.53	65.30	17.43	4.96	50.0	± 9.6 %
		Y	4.53	65.68	17.51		50.0	
		Z	4.87	65.86	17.93		50.0	1
10304- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	×	4.36	65.27	17.00	4.17	50.0	± 9.6 %
		Y	4.37	65.70	17.10		50.0	
		Z	4.68	65.72	17.43		50.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.04	67.22	18.57	6.02	35.0	± 9.6 %
_		Y	3.90	66.96	18.28		35.0	
US DO NOT		Z	4.56	68.94	19.89	1.5.5.5	35.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.34	66.27	18.39	6.02	35.0	± 9.6 %
		Y	4.25	66.32	18.29		35.0	
		Z	4.76	67.44	19.38		35.0	
10307- AAA	IEEE 802.16e WiMAX (29.18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.22	66.32	18.30	6.02	35.0	±9.6 %
		Y	4,13	66.29	18.16		35.0	
		Z	4.66	67.63	19.35		35.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	×	4.21	66.53	18.45	6.02	35.0	± 9.6 %
		Y	4.11	66.49	18.31		35.0	
1.1.1.1		Z	4.66	67.91	19.52		35.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.35	66.34	18.48	6.02	35.0	± 9.6 %
		Y	4.26	66.36	18.37		35.0	
		Z	4.80	67.62	19.51		35.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.29	66.34	18.38	6.02	35.0	± 9.6 %
		Y	4.20	66.37	18.28		35.0	
		Z	4.72	67.55	19.38		35.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.86	68.74	16.13	0.00	150.0	± 9.6 %
		Y	2.93	69.39	16.54		150.0	
		Z	2.97	68.83	16.21		150.0	
10313- AAA	IDEN 1:3	X	1.97	66.82	12.74	6.99	70.0	± 9.6 %
		Y	3.65	76.88	17.86		70.0	
		Z	3.59	74.64	16.78		70.0	
10314- AAA	IDEN 1:6	X	3.19	73.24	18.12	10.00	30.0	± 9.6 %
		Y	10.39	95.78	27.22	-	30.0	
		Z	8.96	90.68	25.24		30,0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	×	0.97	63.50	14.82	0.17	150.0	±9.6 %
		Y	1.05	64.34	15.45		150.0	
		Z	0.99	63.73	15.21		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	4.30	66.59	16.09	0.17	150.0	±9.6 %
		Y	4.31	66.95	16.24		150.0	
		Z	4.44	66.61	16.32		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.30	66.59	16.09	0.17	150.0	± 9.6 %
		Y	4.31	66.95	16.24		150.0	
		Z	4.44	66.61	16.32		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	x	4.39	66.95	16.16	0.00	150.0	± 9.6 %
		Y	4.36	67.21	16.23		150.0	
		Z	4.52	66.87	16.27		150,0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	×	5.05	66.74	16.18	0.00	150.0	±9.6 %
		Y	5.01	66.91	16.21		150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.40	67.32	16.36	0.00	150.0	± 9.6 %
		Y	5.38	67.52	16.42		150.0	
-		Z	5.50	67.27	16.44		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	x	0.81	63.73	9.57	0.00	115.0	± 9.6 %
		Y	0.87	65.03	10.31		115.0	
		Z	1.05	65.77	11.33		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	0.81	63.73	9.57	0.00	115.0	± 9.6 %
		Y	0.87	65.03	10.31		115.0	
		Z	1.05	65.77	11.33	1000	115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	×	49.79	110.40	26.30	0.00	100.0	±9.6 %
		Y	100.00	110.79	24.34		100.0	1.1
		Z	100.00	123.34	30.81		100.0	
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	×	2.54	75.11	16.04	3.23	80.0	±9.6 %
		Y	100.00	128.41	31.94		80,0	
		Z	100.00	128.08	32.67		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	x	0.92	63.00	14.46	0.00	150.0	±9.6 %
		Y	1.00	63.73	14.96		150.0	
		Z	0.92	62.89	14.57		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.28	66.71	16.13	0.00	150.0	±9.6 %
		Y	4.27	67.01	16.21		150.0	1
		Z	4.38	66.57	16.22		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	x	4.28	66.71	16.13	0.00	150.0	± 9.6 %
		Y	4.27	67.01	16.21		150.0	
		Z	4.38	66.57	16.22		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	x	4.28	66.92	16.18	0.00	150.0	±9.6 %
		Y	4.27	67.23	16.29		150.0	
		Z	4.38	66.76	16.26		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	×	4.29	66.85	16.17	0.00	150.0	± 9.6 %
		Y	4.29	67.16	16.26		150.0	
		Z	4.40	66.70	16.25		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.40	66.82	16.18	0.00	150.0	± 9.6 %
		Y	4.39	67.12	16.27		150.0	
		Z	4.51	66.68	16.27		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	×	4.52	67.08	16.27	0.00	150.0	± 9.6 %
		Y	4.50	67.36	16.35	1.5	150.0	
		Z	4.65	66,97	16.37		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.45	67.03	16.25	0.00	150.0	± 9.6 %
		Y	4.44	67.31	16.33		150.0	
		Z	4.58	66.92	16.34		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Х	5.08	67.22	16.44	0.00	150.0	±9.6 %
		Y	5.04	67.34	16.45		150.0	
		Z	5.21	67.21	16.56		150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.10	67.31	16.48	0.00	150.0	± 9.6 %
	1940.00	Y	5.06	67.44	16.50		150.0	
		Z	5.24	67.34	16.62		150.0	1

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	х	5.06	67.09	16.37	0.00	150.0	± 9.6 %
		Y	5.03	67.26	16.40		150.0	-
		Z	5.22	67.20	16.54	1	150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.35	73.16	18.72	0.00	150.0	± 9.6 %
		Y	4.41	73.77	18.79		150.0	
		Z	4.25	71.86	18.49		150.0	
10431-	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	3.89	67.31	15.99	0.00	150.0	± 9.6 %
AAB		Y	3.88	67.67	16.08		150.0	-
		Z	4.03	67.17	16.15		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.22	67.14	16.16	0.00	150,0	± 9.6 %
		Y	4.20	67.45	16.26		150.0	
		Z	4.34	67.00	16.27		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.47	67.07	16.27	0.00	150.0	± 9.6 %
		Y	4.46	67.35	16.35		150.0	
		Z	4.59	66.95	16.36		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	×	4.51	74.13	18.50	0.00	150.0	± 9.6 %
		Y	4.59	74.79	18.56		150.0	
		Z	4.38	72.82	18.37		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	2.44	74.57	15,79	3.23	80.0	± 9.6 %
		Y	100.00	128.04	31.77		80.0	
-		Z	100.00	127.82	32.55	-	80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	x	3.12	67.03	14.75	0.00	150.0	± 9.6 %
		Y	3.11	67.44	14.80		150.0	
		Z	3.29	67.05	15.17		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	3.76	67.10	15.86	0.00	150.0	±9.6 %
		Y	3.76	67.49	15.97	-	150.0	
		Z	3.88	66.95	16.01		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	×	4.06	66.97	16.07	0.00	150.0	± 9.6 %
		Y	4.05	67.30	16.17		150.0	
		Z	4.17	66.83	16.17		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.27	66.85	16.12	0.00	150.0	± 9.6 %
1.0.00	- m s - n	Y	4.27	67.14	16.22		150.0	
200		Z	4.37	66.72	16.21	1.00	150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	x	2.90	66.68	13.92	0.00	150.0	± 9.6 %
		Y	2.86	66.96	13.88		150.0	
		Z	3.13	66.99	14.55		150.0	
10456- AAB	IEEE 802_11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.00	67.71	16.58	0.00	150.0	± 9.6 %
		Y	5.96	67.83	16.59		150.0	
		Z	6.15	67.87	16.77		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	×	3.64	65.45	15.86	0.00	150.0	±9.6 %
100		Y	3.66	65.82	15.96		150.0	
		Z	3.68	65.23	15.93		150.0	
	CDMA2000 (1xEV-DO, Rev. B, 2	X	3.73	71.55	16.73	0.00	150.0	± 9.6 %
10458- AAA	carriers)			71.52	16.43		150.0	
	carriers)	Y	3.64		10.40			
10458- AAA		YZ	3.64 3.90	71.52	17.33		150.0	
	CDMA2000 (1xEV-DO, Rev. B, 3					0.00	the second se	±9,6 %
AAA 10459-		Z	3.90	71.51	17.33	0.00	150.0	±9,6 %

10460- AAA	UMTS-FDD (WCDMA, AMR)	x	0.81	68.76	15.82	0.00	150.0	± 9.6 %
		Y	0.94	70.72	17.19	-	150.0	
		Z	0.84	69.17	16.14		150.0	-
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.65	71.23	15.52	3.29	80.0	± 9,6 %
		Y	100.00	136.80	35.74		80.0	
		Z	100.00	133.83	35.35		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.75	60.00	7.08	3.23	80.0	± 9.6 %
		Y	0.61	60.00	7.21		80.0	
		Z	53.34	100.96	21.79	1	80.0	1
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	х	0.76	60.00	6.49	3.23	80.0	± 9.6 %
		Y	0.64	60.00	6.40		80.0	
		Z	1.37	64.40	10.29		80.0	1
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.19	67.21	13.22	3.23	80.0	±9.6 %
		Y	100.00	132.79	33.70		80.0	
		Z	100.00	130.70	33.72		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	x	0.75	60.00	7.02	3.23	80.0	± 9.6 %
		Y	0.61	60.00	7:12		80.0	
		Z	6.12	79.60	16.25		80.0	-
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.77	60.00	6.45	3.23	80.0	± 9.6 %
		Y	0.64	60.00	6.35		80.0	-
		Z	1.20	63.08	9.65		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	1.24	67.75	13.49	3.23	80.0	±9.6 %
		Y	100.00	133.39	33.96		80.0	
		Z	100.00	131.12	33,90		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	×	0.74	60.00	7.04	3.23	80.0	± 9.6 %
		Y	0.61	60.00	7.16	-	80.0	
		Z	9.05	83.50	17.41		80.0	1
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	×	0.77	60.00	6.45	3.23	80.0	±9.6 %
		Y	1.41	64.17	7.79		80.0	
		Z	1.20	63.12	9.67		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.23	67.73	13.47	3.23	80.0	± 9.6 %
		Y	100.00	133.44	33.97		80.0	
		Z	100.00	131.16	33.91	1000	80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	x	0.74	60.00	7.03	3.23	80.0	± 9,6 %
		Y	0.61	60.00	7.14	-	80.0	
		Z	8.60	82.96	17.24		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	x	0.77	60.00	6.43	3.23	80.0	± 9.6 %
		Y	0.64	60.00	6.33		80.0	
		Z	1.19	63.04	9.61		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.23	67.70	13.45	3.23	80.0	± 9.6 %
		Y	100.00	133.40	33.95		80.0	
		Z	100.00	131.12	33.89		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	x	0.74	60.00	7.02	3.23	80.0	± 9.6 %
		Y	0.61	60.00	7.14		80.0	-
		Z	8.32	82.66	17.15		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	×	0.76	60.00	6.43	3.23	80.0	± 9.6 %
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1.00	The share of the second s	Y	0.64	60.00	6.33		80.0	