



SAR TEST REPORT

Applicant Mobike Information Technology Limited
FCC ID 2AP7UMCA5A15
Product Mobike Lock
Brand mobike
Model MCA5A15
Report No. R1805A0244-S1V1
Issue Date July 5, 2018

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **IEEE 1528- 2013/ ANSI C95.1: 1992/IEEE C95.1: 1991**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test facility

CNAS (accreditation number:L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for the EUT are as follows:

Table 2.1: Highest Reported SAR

Mode	Highest Reported SAR (W/kg)
	1g SAR Body (Separation 5mm)
LTE FDD 2	0.226
LTE FDD 4	0.185
LTE FDD 12	0.164
LTE FDD 13	0.191
BT-LE	/
Date of Testing:	June 13, 2018
Note: 1. The device is in compliance with SAR for Uncontrolled Environment /General Population exposure limits (1.6 W/kg) specified in ANSI C95.1: 1992/IEEE C95.1: 1991, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013. 2. According to KDB 447498 D01, stand-alone SAR evaluation is not required for BT, more details information see chapter 10.2	

Table 2.2: Highest Simultaneous Transmission SAR

Exposure Configuration	1g SAR Body (Separation 5mm)
Highest Simultaneous Transmission SAR (W/kg)	0.268
Note: 1. The detail for simultaneous transmission consideration is described in chapter 10.4.	

3 Description of Equipment under Test

Client Information

Applicant	Mobike Information Technology Limited
Applicant address	Section 4, Room 112, Block C, Nangang Industrial Develop area, economic and technological development zone, Tianjin, PRC.
Manufacturer	Mobike Information Technology Limited
Manufacturer address	Section 4, Room 112, Block C, Nangang Industrial Develop area, economic and technological development zone, Tianjin, PRC.

General Technologies

Application Purpose:	Original Grant
EUT Stage	Identical Prototype
Model:	MCA5A15
IMEI:	866425030269767
Hardware Version:	A15
Software Version:	MSL_MC_A_A5_A15_522
Antenna Type:	Internal Antenna
Power Class:	LTE FDD 2/4/12/13:3
Power Level	LTE FDD 2/4/12/13:max power
EUT Accessory	
Battery	Manufacturer: LIFUN TECHNOLOGY Co., LTD Model: S20-875771

**Wireless Technology and Frequency Range**

Wireless Technology		Modulation	Operating mode	Tx (MHz)
LTE	FDD 2	QPSK, 16QAM	Category M1	1850 ~ 1910
	FDD 4			1710 ~ 1755
	FDD 12			699 ~ 716
	FDD 13			777 ~ 787
	Does this device support Carrier Aggregation (CA) ☐ Yes ☒ No			
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No			
BT-LE	2.4G	Version 4.2 LE		2402 ~2480



4 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE 1528- 2013, ANSI C95.1: 1992/IEEE C95.1: 1991, the following FCC Published RF exposure KDB procedures:

447498 D01 General RF Exposure Guidance v06
865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
865664 D02 RF Exposure Reporting v01r02
941225 D05 SAR for LTE Devices v02r05
941225 D06 Hotspot Mode v02r01

5 Operational Conditions during Test

5.1 Test Positions

According to the operating mode of the antenna, the report takes full account of the SAR conformance of the equipment, and evaluates the distance of all the surfaces that may be exposed to the human body at the distance of the 5mm, more details information see section 10.1.

5.2 Measurement Variability

Per FCC KDB Publication 865664 D01, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

5.3 Test Configuration

5.3.1 LTE Test Configuration (CAT M1)

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3E-1.

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with the highest maximum output power configurations

Start with the largest channel bandwidth and measure SAR for QPSK with the highest maximum output power configurations. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.

2) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

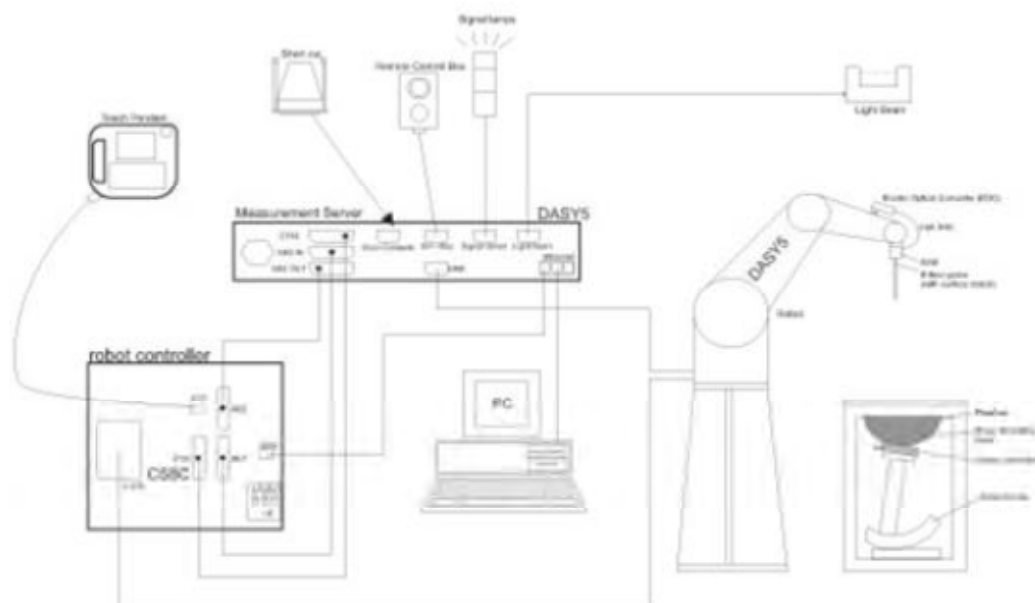
E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the *reported* SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

6 SAR Measurements System Configuration

6.1 SAR Measurement Set-up

The DASY system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

6.2 DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

EX3DV4 Probe Specification

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure Scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.



E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than ± 0.25 dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based



temperature probe is used in conjunction with the E-field probe.

$$SAR = C \Delta T / \Delta t$$

Where: Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

ΔT = Temperature increase due to RF exposure.

Or

$$SAR = IEI^2 \sigma / \rho$$

Where: σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m^3).

6.3 SAR Measurement Procedure

Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤3GHz	> 3 GHz
Maximum zoom scan spatial resolution: Δx_{zoom} Δy_{zoom}			≤2GHz: ≤8mm 2 – 3GHz: ≤5mm*	3 – 4GHz: ≤5mm* 4 – 6GHz: ≤4mm*
Maximum zoom scan spatial resolution, normal to phantom surface	Uniform grid: $\Delta z_{\text{zoom}}(n)$		≤5mm	3 – 4GHz: ≤4mm 4 – 5GHz: ≤3mm 5 – 6GHz: ≤2mm
	Graded grid	$\Delta z_{\text{zoom}}(1)$: between 1 st two points closest to phantom surface	≤4mm	3 – 4GHz: ≤3mm 4 – 5GHz: ≤2.5mm 5 – 6GHz: ≤2mm
		$\Delta z_{\text{zoom}}(n>1)$: between subsequent points	≤1.5• $\Delta z_{\text{zoom}}(n-1)$	
Minimum zoom scan volume	X, y, z		≥30mm	3 – 4GHz: ≥28mm 4 – 5GHz: ≥25mm 5 – 6GHz: ≥22mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4W/kg, ≤8mm, ≤7mm and ≤5mm zoom scan resolution may be applied, respectively, for 2GHz to 3GHz, 3GHz to 4GHz and 4GHz to 6GHz.				

Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

7 Main Test Equipment

Name of Equipment	Manufacturer	Type/Model	Serial Number	Last Cal.	Cal. Due Date
Network analyzer	Agilent	E5071B	MY42404014	2018-05-20	2019-05-19
Dielectric Probe Kit	HP	85070E	US44020115	2018-05-20	2019-05-19
Power meter	Agilent	E4417A	GB41291714	2018-05-21	2019-05-20
Power sensor	Agilent	N8481H	MY50350004	2018-05-21	2019-05-20
Power sensor	Agilent	E9327A	US40441622	2018-05-20	2019-05-19
Dual directional coupler	Agilent	778D-012	50519	2018-05-21	2019-05-20
Dual directional coupler	Agilent	777D	50146	2018-05-20	2019-05-19
Amplifier	INDEXSAR	IXA-020	0401	2018-05-20	2019-05-19
Wideband radio communication tester	R&S	CMW 500	113645	2018-05-20	2019-05-19
BT Base Station Simulator	R&S	CBT	100271	2018-05-14	2019-05-13
E-field Probe	SPEAG	EX3DV4	3898	2017-06-27	2018-06-26
DAE	SPEAG	DAE4	1291	2017-10-31	2018-10-30
Validation Kit 750MHz	SPEAG	D750V3	1045	2017-08-27	2020-08-26
Validation Kit 1750MHz	SPEAG	D1750V2	1033	2017-01-10	2020-01-09
Validation Kit 1900MHz	SPEAG	D1900V2	5d060	2017-08-26	2020-08-25
Temperature Probe	Tianjin jinming	JM222	AA1009129	2018-05-17	2019-05-16
Hygrothermograph	Anymetr	NT-311	20150731	2018-05-17	2019-05-16
Software for Test	Speag	DASY5	52.8.8.1222	/	/
Software for Tissue	Agilent	85070	E06.01.36	/	/

8 Tissue Dielectric Parameter Measurements & System Verification

8.1 Tissue Verification

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3 – 4 days of use; or earlier if the dielectric parameters can become out of tolerance.

Target values

Frequency (MHz)		Water (%)	Salt (%)	Sugar (%)	Glycol (%)	Preventol (%)	Cellulose (%)	ϵ_r	$\sigma(\text{s/m})$
Body	750	52.49	1.41	45	0	0.1	1.0	55.5	0.96
	1750	69.91	0.12	0	29.97	0	0	53.4	1.49
	1900	69.91	0.13	0	29.96	0	0	53.3	1.52

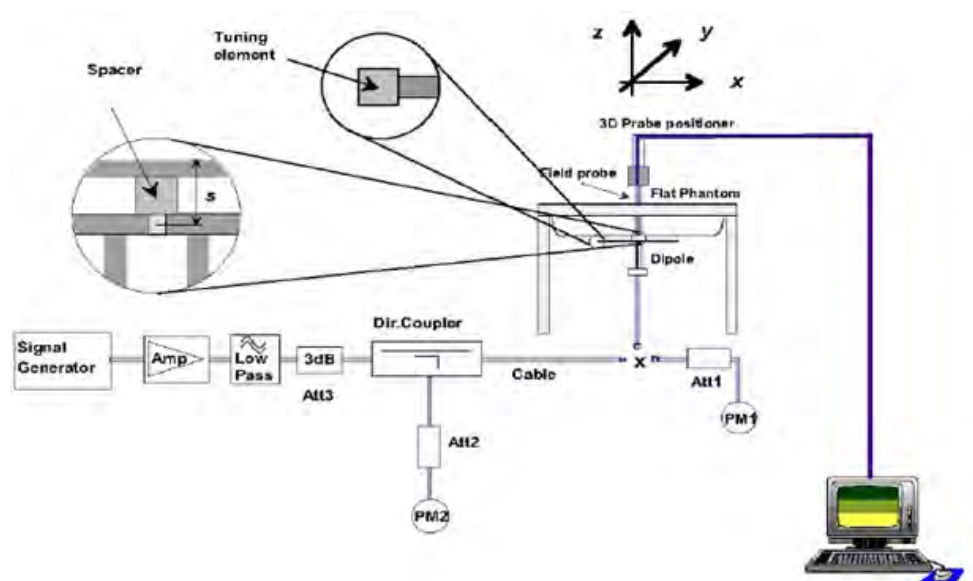
Measurements results

Frequency (MHz)		Test Date	Temp $^\circ\text{C}$	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within $\pm 5\%$)	
				ϵ_r	$\sigma(\text{s/m})$	ϵ_r	$\sigma(\text{s/m})$	Dev $\epsilon_r(\%)$	Dev $\sigma(\%)$
750	Body	6/13/2018	21.5	56.9	0.97	55.5	0.96	2.52	1.04
1750	Body	6/13/2018	21.5	51.4	1.44	53.4	1.49	-3.75	-3.36
1900	Body	6/13/2018	21.5	52.7	1.51	53.3	1.52	-1.13	-0.66
Note: The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.									

8.2 System Performance Check

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulates were measured using the dielectric probe kit and the network analyzer. A system check measurement for every day was made following the determination of the dielectric parameters of the Tissue simulates, using the dipole validation kit. The dipole antenna was placed under the flat section of the twin SAM phantom.

System check is performed regularly on all frequency bands where tests are performed with the DASY system.



Picture 1 System Performance Check setup



Picture 2 Setup Photo

**Justification for Extended SAR Dipole Calibrations**

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining return loss (< -20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB 865664 D01:

System Check results

Frequency (MHz)		Test Date	Temp °C	250mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
750	Body	6/13/2018	21.5	2.22	8.88	8.78	1.14	1
1750	Body	6/13/2018	21.5	9.24	36.96	37.60	-1.70	2
1900	Body	6/13/2018	21.5	9.93	39.72	39.50	0.56	3
Note: Target Values used derive from the calibration certificate Data Storage and Evaluation.								

9 Normal and Maximum Output Power

KDB 447498 D01 at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

9.1 LTE Mode (CAT M1)

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3E-1 of the 3GPP TS36.101.

Table 6.2.3E-1: Maximum Power Reduction (MPR) for category M1 UE for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	>2	>2	>1	>4	-	-	≤ 1
QPSK	>5	>5	-	-	-	-	≤ 2
16 QAM	≤ 2	≤ 2	>1	>3	-	-	≤ 1
16QAM	>2	>2	>3	>5	-	-	≤ 2

LTE Band 2	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)					
				QPSK	Tune up (MAX)	MPR	16QAM	Tune up (MAX)	MPR
1.4MHz	18607/1850.7	0	1#0	22.70	23.50	0.00	21.25	22.50	1.00
		0	6#0	20.48	21.50	2.00	20.65	21.50	2.00
	18900/1880	0	1#0	22.55	23.50	0.00	21.13	22.50	1.00
		0	6#0	20.44	21.50	2.00	20.08	21.50	2.00
	19193/1909.3	0	1#5	22.02	23.50	0.00	21.58	22.50	1.00
		0	6#0	20.50	21.50	2.00	19.93	21.50	2.00
3MHz	18615/1851.5	0	1#0	22.51	23.50	0.00	22.18	22.50	1.00
		0	6#0	20.38	21.50	2.00	20.18	21.50	2.00
	18900/1880	0	1#0	22.58	23.50	0.00	21.43	22.50	1.00
		0	6#0	20.47	21.50	2.00	20.23	21.50	2.00
	19185/1908.5	1	1#5	22.03	23.50	0.00	22.00	22.50	1.00
		1	6#0	20.26	21.50	2.00	19.70	21.50	2.00
5MHz	18625/1852.5	3	1#0	22.68	23.50	0.00	22.78	23.50	0.00
		0	6#0	21.41	22.50	1.00	19.94	21.50	2.00
	18900/1880	0	1#0	22.85	23.50	0.00	22.76	23.50	0.00
		0	6#0	21.63	22.50	1.00	20.61	21.50	2.00
	19175/1907.5	0	1#5	21.52	23.50	0.00	22.37	23.50	0.00
		3	6#0	21.30	22.50	1.00	20.49	21.50	2.00
10MHz	18650/1855	3	1#0	22.52	23.50	0.00	22.25	23.50	0.00
		0	4#0	22.73	23.50	0.00	22.00	22.50	1.00
	18900/1880	0	1#0	22.77	23.50	0.00	21.70	23.50	0.00



	19150/1905	0	4#0	22.58	23.50	0.00	21.82	22.50	1.00
		4	1#5	22.43	23.50	0.00	22.40	23.50	0.00
		7	4#2	22.69	23.50	0.00	21.87	22.50	1.00
15MHz	18675/1857.5	3	1#0	22.66	23.50	0.00	22.53	23.50	0.00
		0	6#0	22.56	23.50	0.00	22.79	23.50	0.00
	18900/1880	0	1#0	22.47	23.50	0.00	22.59	23.50	0.00
		0	6#0	22.58	23.50	0.00	22.47	23.50	0.00
	19125/1902.5	8	1#5	22.21	23.50	0.00	22.28	23.50	0.00
		11	6#0	22.36	23.50	0.00	22.51	23.50	0.00
20MHz	18700/1860	3	1#0	22.90	23.50	0.00	22.81	23.50	0.00
		0	6#0	22.87	23.50	0.00	22.88	23.50	0.00
	18900/1880	0	1#0	22.57	23.50	0.00	22.50	23.50	0.00
		0	6#0	22.64	23.50	0.00	22.59	23.50	0.00
	19100/1900	12	1#5	22.40	23.50	0.00	22.31	23.50	0.00
		15	6#0	22.37	23.50	0.00	22.45	23.50	0.00

LTE Band 4	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)					
				QPSK	Tune up (MAX)	MPR	16QAM	Tune up (MAX)	MPR
1.4MHz	19957 1710.7	0	1#0	22.24	22.50	0.00	21.42	21.50	1.00
		0	6#0	20.17	20.50	2.00	20.31	20.50	2.00
	20175/1732.5	0	1#0	21.83	22.50	0.00	21.02	21.50	1.00
		0	6#0	19.78	20.50	2.00	20.34	20.50	2.00
	20393/1754.3	0	1#5	21.67	22.50	0.00	21.19	21.50	1.00
		0	6#0	19.78	20.50	2.00	20.28	20.50	2.00
3MHz	19965/1711.5	0	1#0	22.40	22.50	0.00	21.04	21.50	1.00
		0	6#0	20.14	20.50	2.00	20.24	20.50	2.00
	20175/1732.5	0	1#0	22.01	22.50	0.00	21.11	21.50	1.00
		0	6#0	19.73	20.50	2.00	20.32	20.50	2.00
	20385/1753.5	1	1#5	21.96	22.50	0.00	21.04	21.50	1.00
		1	6#0	19.87	20.50	2.00	19.94	20.50	2.00
5MHz	19975/1712.5	0	1#0	22.35	22.50	0.00	22.24	22.50	0.00
		0	6#0	21.13	21.50	1.00	20.31	20.50	2.00
	20175/1732.5	0	1#0	21.88	22.50	0.00	22.35	22.50	0.00
		0	6#0	20.65	21.50	1.00	20.96	20.50	2.00
	20375/1752.5	3	1#5	21.88	22.50	0.00	22.09	22.50	0.00
		3	6#0	20.87	21.50	1.00	20.29	20.50	2.00
10MHz	20000/1715	0	1#0	21.97	22.50	0.00	22.21	22.50	0.00
		0	4#0	22.13	22.50	0.00	21.34	21.50	1.00
	20175/1732.5	0	1#0	21.63	22.50	0.00	22.25	22.50	0.00
		0	4#0	21.74	22.50	0.00	21.17	21.50	1.00
	20350/1750	7	1#5	21.60	22.50	0.00	22.06	22.50	0.00



		7	4#2	21.79	22.50	0.00	21.37	21.50	1.00
15MHz	20025/1717.5	0	1#0	22.38	22.50	0.00	22.24	22.50	0.00
		0	6#0	22.08	22.50	0.00	22.31	22.50	0.00
	20175/1732.5	0	1#0	21.69	22.50	0.00	22.24	22.50	0.00
		0	6#0	21.97	22.50	0.00	22.01	22.50	0.00
	20325/1747.5	11	1#5	21.81	22.50	0.00	22.24	22.50	0.00
		11	6#0	21.82	22.50	0.00	22.16	22.50	0.00
20MHz	20050/1720	0	1#0	22.12	22.50	0.00	22.34	22.50	0.00
		0	6#0	22.28	22.50	0.00	22.32	22.50	0.00
	20175/1732.5	0	1#0	22.33	22.50	0.00	22.32	22.50	0.00
		0	6#0	22.05	22.50	0.00	22.16	22.50	0.00
	20300/1745	15	1#5	22.10	22.50	0.00	21.80	22.50	0.00
		15	6#0	22.08	22.50	0.00	21.98	22.50	0.00

LTE Band 12	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)					
				QPSK	Tune up (MAX)	MPR	16QAM	Tune up (MAX)	MPR
1.4MHz	23017/699.7	0	1#0	22.89	23.50	0.00	22.32	22.50	1.00
		0	6#0	20.74	21.50	2.00	20.98	21.50	2.00
	23095/707.5	0	1#0	22.25	23.50	0.00	22.23	22.50	1.00
		0	6#0	20.59	21.50	2.00	20.57	21.50	2.00
	23173/715.3	0	1#5	22.68	23.50	0.00	22.20	22.50	1.00
		0	6#0	20.44	21.50	2.00	20.91	21.50	2.00
3MHz	23025/700.5	0	1#0	22.93	23.50	0.00	22.36	22.50	1.00
		0	6#0	20.79	21.50	2.00	20.73	21.50	2.00
	23095/707.5	0	1#0	22.30	23.50	0.00	22.29	22.50	1.00
		0	6#0	20.69	21.50	2.00	21.01	21.50	2.00
	23165/714.5	1	1#5	22.76	23.50	0.00	22.28	22.50	1.00
		1	6#0	20.53	21.50	2.00	21.00	21.50	2.00
5MHz	23035/701.5	3	1#0	22.91	23.50	0.00	22.34	23.50	0.00
		0	6#0	21.75	22.50	1.00	20.68	21.50	2.00
	23095/707.5	0	1#0	22.25	23.50	0.00	22.73	23.50	0.00
		0	6#0	21.64	22.50	1.00	20.87	21.50	2.00
	23155/713.5	0	1#5	22.72	23.50	0.00	22.24	23.50	0.00
		3	6#0	21.51	22.50	1.00	20.98	21.50	2.00
10MHz	23060/704	3	1#0	22.84	23.50	0.00	22.27	23.50	0.00
		0	4#0	22.75	23.50	0.00	21.69	22.50	1.00
	23095/707.5	0	1#0	22.23	23.50	0.00	22.71	23.50	0.00
		0	4#0	22.60	23.50	0.00	21.58	22.50	1.00
	23130/711	4	1#5	22.68	23.50	0.00	22.20	23.50	0.00
		7	4#2	22.47	23.50	0.00	21.94	22.50	1.00



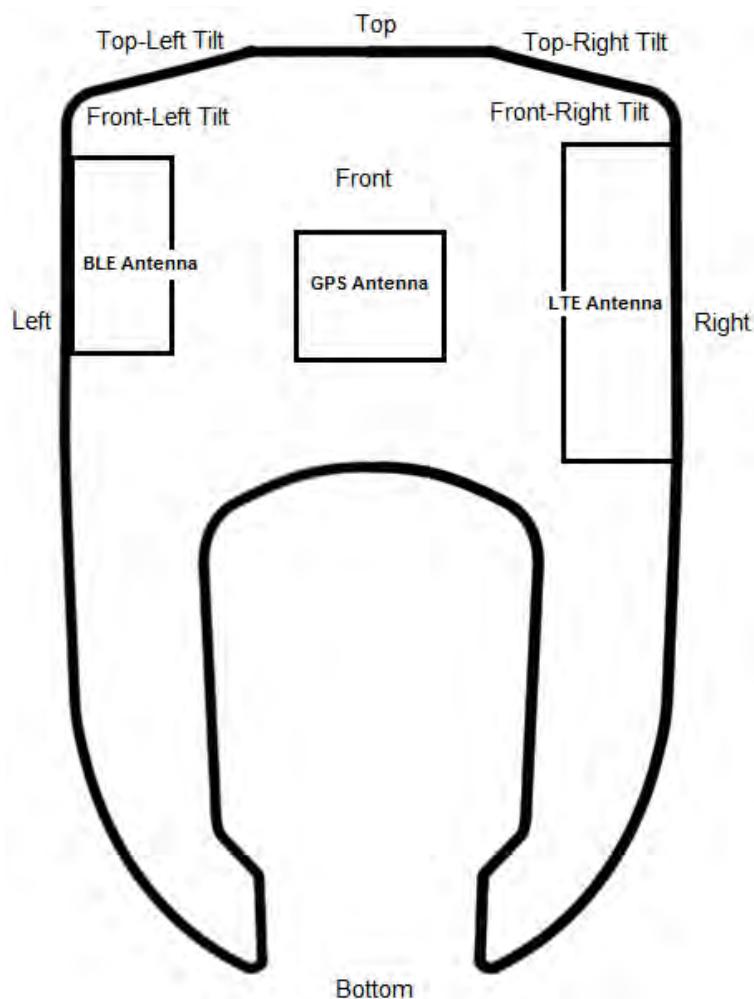
LTE Band 13	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)					
				QPSK	Tune up (MAX)	MPR	16QAM	Tune up (MAX)	MPR
5MHz	23205/779.5	0	1#0	22.83	23.50	0.00	22.76	23.50	0.00
		0	6#0	21.65	22.50	1.00	20.89	21.50	2.00
	23230/782	0	1#0	22.87	23.50	0.00	22.97	23.50	0.00
		0	6#0	21.66	22.50	1.00	20.69	21.50	2.00
	23255/784.5	3	1#5	22.86	23.50	0.00	22.67	23.50	0.00
		3	6#0	21.61	22.50	1.00	20.87	21.50	2.00
10MHz	23230/782	0	1#0	22.79	23.50	0.00	22.55	23.50	0.00
		0	4#0	22.61	23.50	0.00	21.76	22.50	1.00

9.2 Bluetooth Mode

BLE	Conducted Power(dBm)			Tune-up Limit (dBm)
	Channel/Frequency(MHz)			
	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	
GFSK	-6.47	-6.34	-6.32	0

10 Measured and Reported (Scaled) SAR Results

10.1 EUT Antenna Locations



Overall (Length x Width x thickness): 208mm x 139mm x 29mm										
Distance of the Antenna to the EUT surface/edge										
Antenna	Back Side	Front side	Front-Left Tilt	Front-Right Tilt	Left Edge	Right Edge	Top Edge	Top-Left Tilt	Top-Right Tilt	Bottom Edge
LTE Antenna	/	<25mm	>25mm	<25mm	>25mm	<25mm	<25mm	>25mm	<25mm	/
Hotspot mode, Positions for SAR tests										
Mode	Back Side	Front side	Front-Left Tilt	Front-Right Tilt	Left Edge	Right Edge	Top Edge	Top-Left Tilt	Top-Right Tilt	Bottom Edge
LTE Antenna	Not applicable	Yes	N/A	Yes	N/A	Yes	Yes	N/A	Yes	Not applicable

Note: 1. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

10.2 Standalone SAR test exclusion considerations

Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Bluetooth	Distance (mm)	MAX Power (dBm)	Frequency (MHz)	Ratio	Evaluation
Body SAR	5	0	2440	0.31	No



10.3 Measured SAR Results

Table 1: LTE Band 2 (20MHz)

Test Position	Cover Type	Index	RB# RBstart	Channel/ Frequency (MHz)	Maximum Allowed Power(dBm)	Conducted Power (dBm)	Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Plot No.
Body SAR (Distance 5mm)											
Front Side	Standard	3	1#0	18700/1860	23.50	22.90	0.060	0.143	1.15	0.164	/
Front-Left Tilt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front-Right Tilt	Standard	3	1#0	18700/1860	23.50	22.90	0.070	0.197	1.15	0.226	4
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Standard	3	1#0	18700/1860	23.50	22.90	0.010	0.072	1.15	0.083	/
Top Edge	Standard	3	1#0	18700/1860	23.50	22.90	0.149	0.011	1.15	0.079	/
Top-Left Tilt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top-Right Tilt	Standard	3	1#0	18700/1860	23.50	22.90	0.085	0.013	1.15	0.015	/
Note: 1. The value with blue color is the maximum SAR Value of each test band.											
2. SAR for other channels and configurations is not required, when the reported SAR is ≤ 0.8 W/kg											



Table 2: LTE Band 4 (20MHz)

Test Position	Cover Type	Index	RB# RBstart	Channel/ Frequency (MHz)	Maximum Allowed Power(dBm)	Conducted Power (dBm)	Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Plot No.
Body SAR (Distance 5mm)											
Front Side	Standard	0	1#0	20175/1732.5	22.50	22.33	0.000	0.118	1.04	0.123	/
Front-Left Tilt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front-Right Tilt	Standard	0	1#0	20175/1732.5	22.50	22.33	0.038	0.178	1.04	0.185	5
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Standard	0	1#0	20175/1732.5	22.50	22.33	0.075	0.060	1.04	0.062	/
Top Edge	Standard	0	1#0	20175/1732.5	22.50	22.33	0.029	0.025	1.04	0.079	/
Top-Left Tilt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top-Right Tilt	Standard	0	1#0	20175/1732.5	22.50	22.33	-0.020	0.036	1.04	0.037	/
Note: 1. The value with blue color is the maximum SAR Value of each test band. 2. SAR for other channels and configurations is not required, when the reported SAR is ≤ 0.8 W/kg											



Table 3: LTE Band 12 (20MHz)

Test Position	Cover Type	Index	RB# RBstart	Channel/ Frequency (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Plot No.
Body SAR (Distance 5mm)											
Front Side	Standard	3	1#0	23060/704	23.50	22.84	0.050	0.141	1.16	0.164	6
Front-Left Tilt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front-Right Tilt	Standard	3	1#0	23060/704	23.50	22.84	-0.190	0.137	1.16	0.159	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Standard	3	1#0	23060/704	23.50	22.84	-0.050	0.083	1.16	0.096	/
Top Edge	Standard	3	1#0	23060/704	23.50	22.84	0.027	0.030	1.16	0.079	/
Top-Left Tilt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top-Right Tilt	Standard	3	1#0	23060/704	23.50	22.84	0.180	0.026	1.16	0.030	/
Note: 1. The value with blue color is the maximum SAR Value of each test band. 2. SAR for other channels and configurations is not required, when the reported SAR is ≤ 0.8 W/kg											



Table 4: LTE Band 13(10MHz)

Test Position	Cover Type	Index	RB# RBstart	Channel/ Frequency (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Drift (dB)	Measured SAR _{1g} (W/kg)	Scaling Factor	Reported SAR _{1g} (W/kg)	Plot No.
Body SAR (Distance 5mm)											
Front Side	Standard	0	1#0	23230/782	23.50	22.79	0.060	0.162	1.18	0.191	7
Front-Left Tilt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front-Right Tilt	Standard	0	1#0	23230/782	23.50	22.79	-0.096	0.156	1.18	0.184	/
Left Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Edge	Standard	0	1#0	23230/782	23.50	22.79	0.010	0.120	1.18	0.141	/
Top Edge	Standard	0	1#0	23230/782	23.50	22.79	0.039	0.039	1.18	0.079	/
Top-Left Tilt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Top-Right Tilt	Standard	0	1#0	23230/782	23.50	22.79	-0.010	0.024	1.18	0.028	/
Note: 1. The value with blue color is the maximum SAR Value of each test band.											
2. SAR for other channels and configurations is not required, when the reported SAR is ≤ 0.8 W/kg											



Table 5: BLE

Band	Configuration	Frequency (MHz)	Maximum Power (dBm)	Separation Distance (mm)	Estimated SAR (W/kg)
BT-LE	Body SAR	2440	0	5	0.042

For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01 based on the formula below.

$$(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})} / x] \text{ W/kg}$$

for test separation distances ≤ 50 mm; where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

10.4 Simultaneous Transmission Analysis

Simultaneous Transmission Configurations	Body SAR
LTE + BT-LE	Yes

General Note:

1. The Scaled SAR summation is calculated based on the same configuration and test position.
2. Per KDB 447498 D01, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation $< 1.6\text{W/kg}$, simultaneously transmission SAR measurement is not necessary.
 - ii) $\text{SPLSR} = (\text{SAR1} + \text{SAR2})^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

The maximum SAR_{1g} Value for LTE Antenna

SAR _{1g} (W/kg)		LTE 2	LTE 4	LTE 12	LTE 13	MAX. SAR _{1g}
Test Position						
Body SAR	Front Side	0.164	0.123	0.164	0.191	0.191
	Front-Left Tilt	N/A	N/A	N/A	N/A	0
	Front-Right Tilt	0.226	0.185	0.159	0.184	0.226
	Left Edge	N/A	N/A	N/A	N/A	0
	Right Edge	0.083	0.062	0.096	0.141	0.141
	Top Edge	0.079	0.079	0.079	0.079	0.079
	Top-Left Tilt	N/A	N/A	N/A	N/A	0
	Top-Right Tilt	0.015	0.037	0.030	0.028	0.037

About BT and LTE Antenna

SAR _{1g} (W/kg)		LTE Antenna	BT-LE	MAX. Σ SAR _{1g}
Test Position				
Body SAR	Front Side	0.191	0.042	0.233
	Front-Left Tilt	0	0.042	0.042
	Front-Right Tilt	0.226	0.042	0.268
	Left Edge	0	0.042	0.042
	Right Edge	0.141	0.042	0.183
	Top Edge	0.079	0.042	0.121
	Top-Left Tilt	0	0.042	0.042
	Top-Right Tilt	0.037	0.042	0.079

Note: 1. The value with blue color is the maximum Σ SAR_{1g} Value.
2. MAX. Σ SAR_{1g} = Unlicensed SAR_{MAX} + Licensed SAR_{MAX}

MAX. Σ SAR_{1g} = 0.268 W/kg < 1.6 W/kg, so the Simultaneous transimition SAR with volum scan are not required for BT-LE and LTE Antenna.



11 Measurement Uncertainty

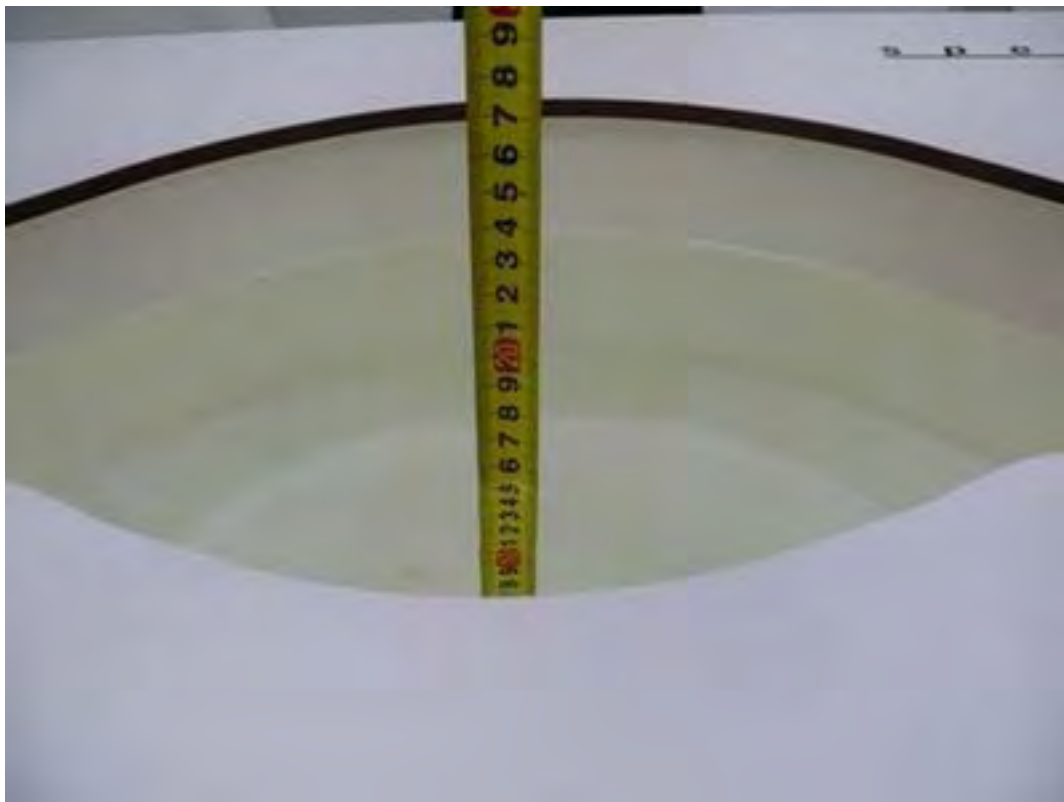
Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528- 2013 is not required in SAR reports submitted for equipment approval.

ANNEX A: Test Layout



Tissue Simulating Liquids

For the measurement of the field distribution inside the flat phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For Body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Picture 3.



Picture 3: Liquid depth in the flat Phantom

ANNEX B: System Check Results

Plot 1 System Performance Check at 750 MHz Body TSL

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1045

Date: 6/13/2018

Communication System: CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.97 \text{ S/m}$; $\epsilon_r = 56.9$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3898; ConvF(10.45, 10.45, 10.45); Calibrated: 6/27/2017;

Electronics: DAE4 Sn1291; Calibrated: 10/31/2017

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

d=15mm, Pin=250mW/Area Scan (41x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.36 W/kg

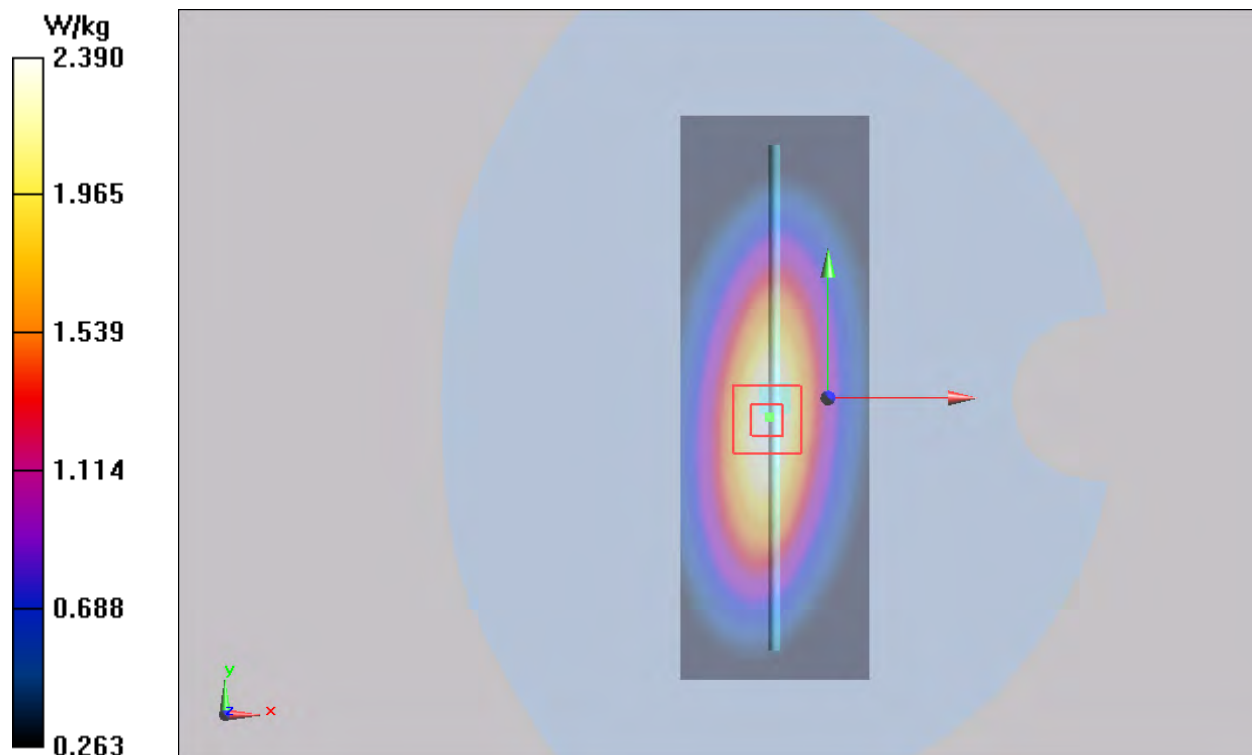
d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 48.998 V/m ; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.24 W/kg

SAR(1 g) = 2.22 W/kg ; SAR(10 g) = 1.49 W/kg

Maximum value of SAR (measured) = 2.39 W/kg



Plot 2 System Performance Check at 1750 MHz Body TSL

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1033

Date: 6/13/2018

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 51.4$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.7 °C

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3898; ConvF(8.50, 8.50, 8.50); Calibrated: 6/27/2017;

Electronics: DAE4 Sn1291; Calibrated: 10/31/2017

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

d=10mm, Pin=250mW/Area Scan (51x81x1): Measurement grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 10.6 mW/g

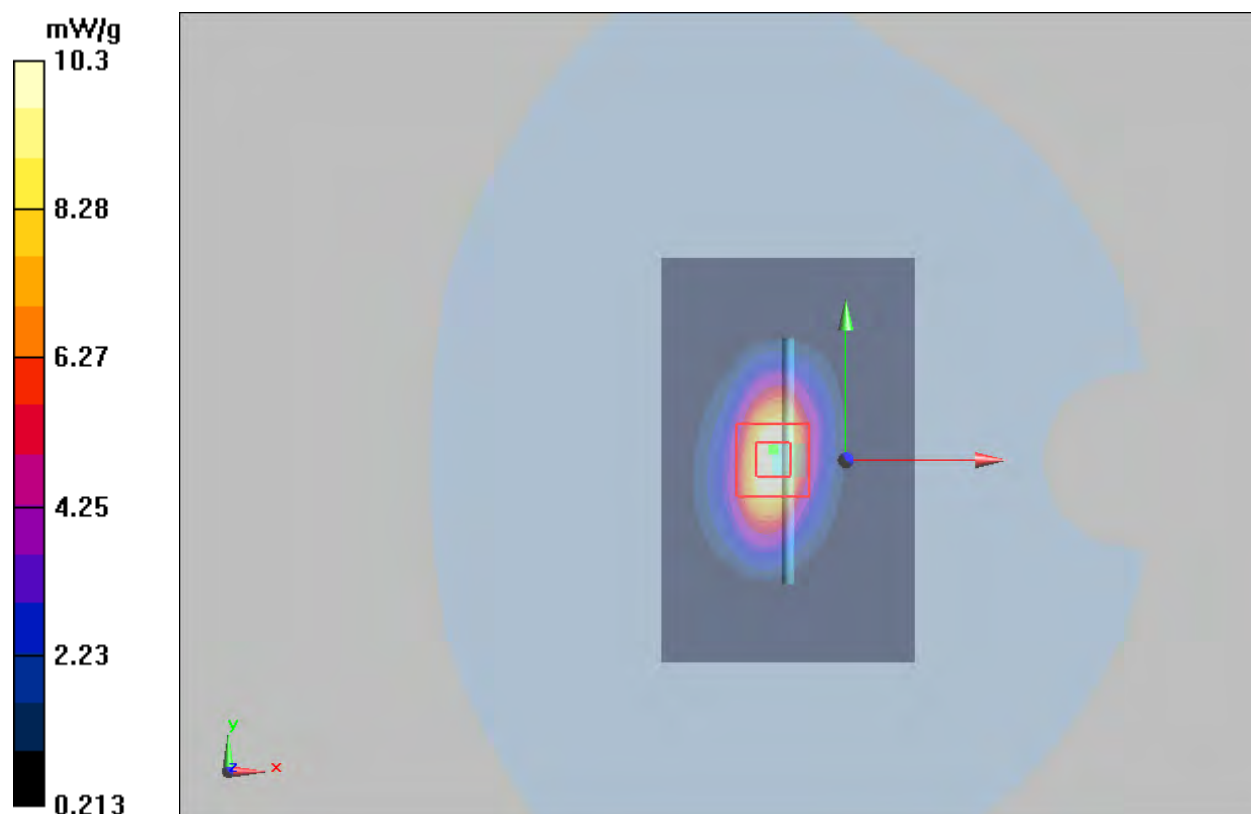
d=10mm, Pin=250mW/Area Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 77.7 V/m; Power Drift = 0.097 dB

Peak SAR (extrapolated) = 16.8 W/kg

SAR(1 g) = 9.24 mW/g; SAR(10 g) = 4.9 mW/g

Maximum value of SAR (measured) = 10.3 mW/g



Plot 3 System Performance Check at 1900 MHz Body TSL

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d060

Date: 6/13/2018

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.7$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C

Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3898; ConvF(8.17, 8.17, 8.17); Calibrated: 6/27/2017;

Electronics: DAE4 Sn1291; Calibrated: 10/31/2017

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

d=10mm, Pin=250mW/Area Scan (41x71x1): Measurement grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.2 mW/g

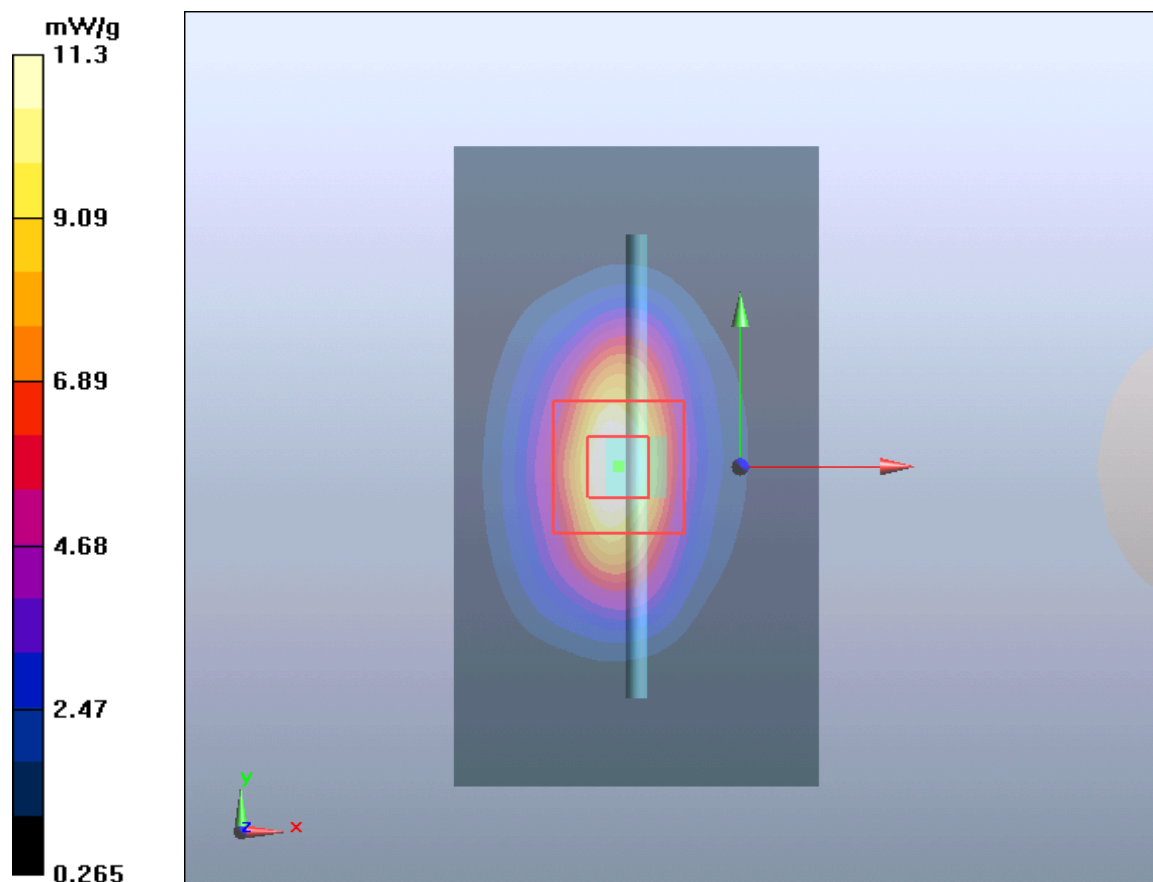
d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 82.3 V/m; Power Drift = 0.068 dB

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 9.93 mW/g; SAR(10 g) = 5.25 mW/g

Maximum value of SAR (measured) = 11.3 mW/g



ANNEX C: Highest Graph Results

Plot 4 LTE Band 2 1RB Front-Right Tilt Low (Distance 5mm)

Date: 6/13/2018

Communication System: UID 0, LTE (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.474$ S/m; $\epsilon_r = 53.034$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3898; ConvF(8.17, 8.17, 8.17); Calibrated: 6/27/2017;

Electronics: DAE4 Sn1291; Calibrated: 10/31/2017

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Front-Right Tilt Low/Area Scan (121x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.235 W/kg

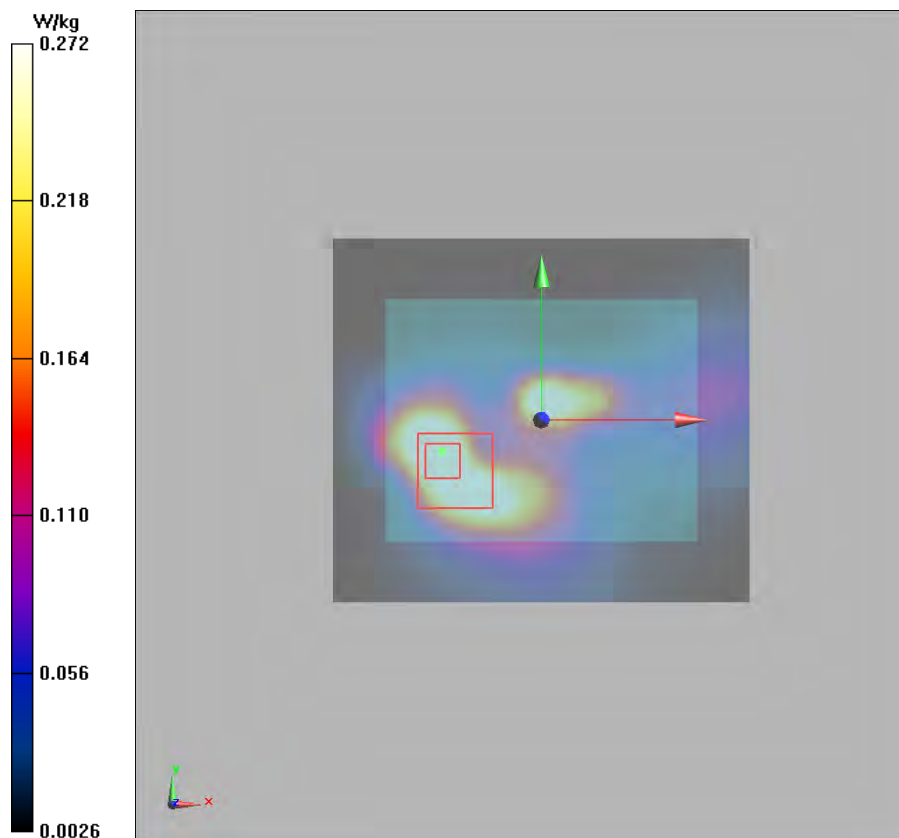
Front-Right Tilt Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.84 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.197 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.272 W/kg



Plot 5 LTE Band 4 1RB Front-Right Tilt Middle (Distance 5mm)

Date: 6/13/2018

Communication System: UID 0, LTE (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.421$ S/m; $\epsilon_r = 51.486$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3898; ConvF(8.50, 8.50, 8.50); Calibrated: 6/27/2017;

Electronics: DAE4 Sn1291; Calibrated: 10/31/2017

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Front-Right Tilt Middle/Area Scan (121x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.197 W/kg

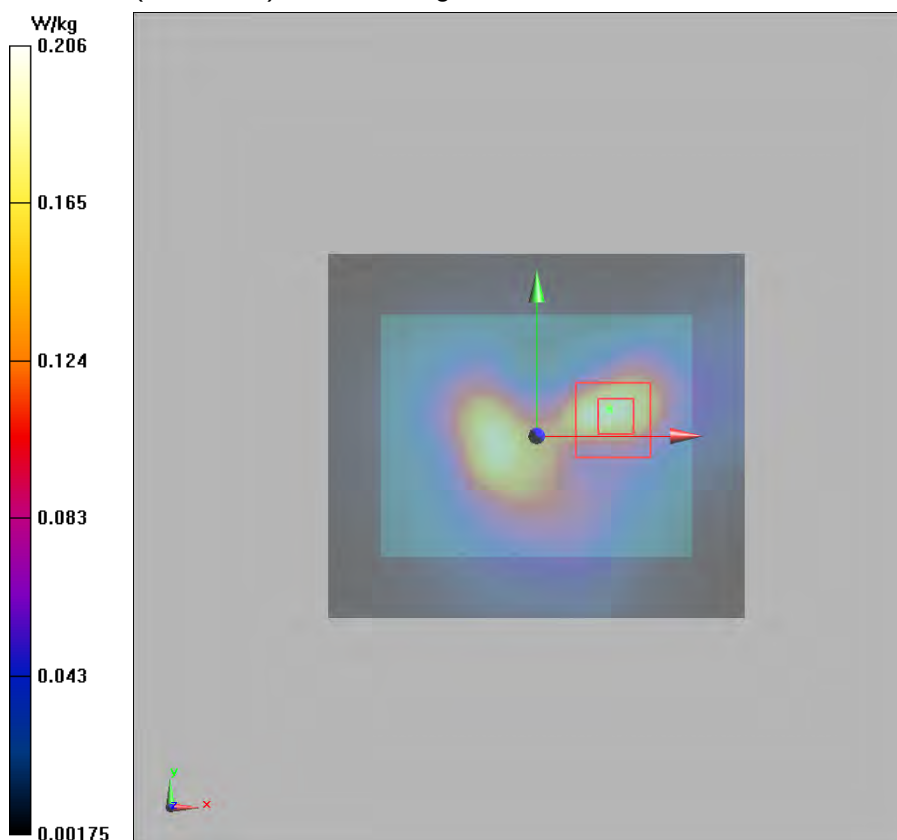
Front-Right Tilt Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.751 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 0.333 W/kg

SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.090 W/kg

Maximum value of SAR (measured) = 0.206 W/kg



Plot 6 LTE Band 12 1RB Front Side Low (Distance 5mm)

Date: 6/13/2018

Communication System: UID 0, LTE (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 704$ MHz; $\sigma = 0.926$ S/m; $\epsilon_r = 57.382$; $\rho = 1000$ kg/m³

Ambient Temperature: 22.3 °C Liquid Temperature: 21.5 °C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3898; ConvF(10.45, 10.45, 10.45); Calibrated: 6/27/2017;

Electronics: DAE4 Sn1291; Calibrated: 10/31/2017

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Front Side Low/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.152 W/kg

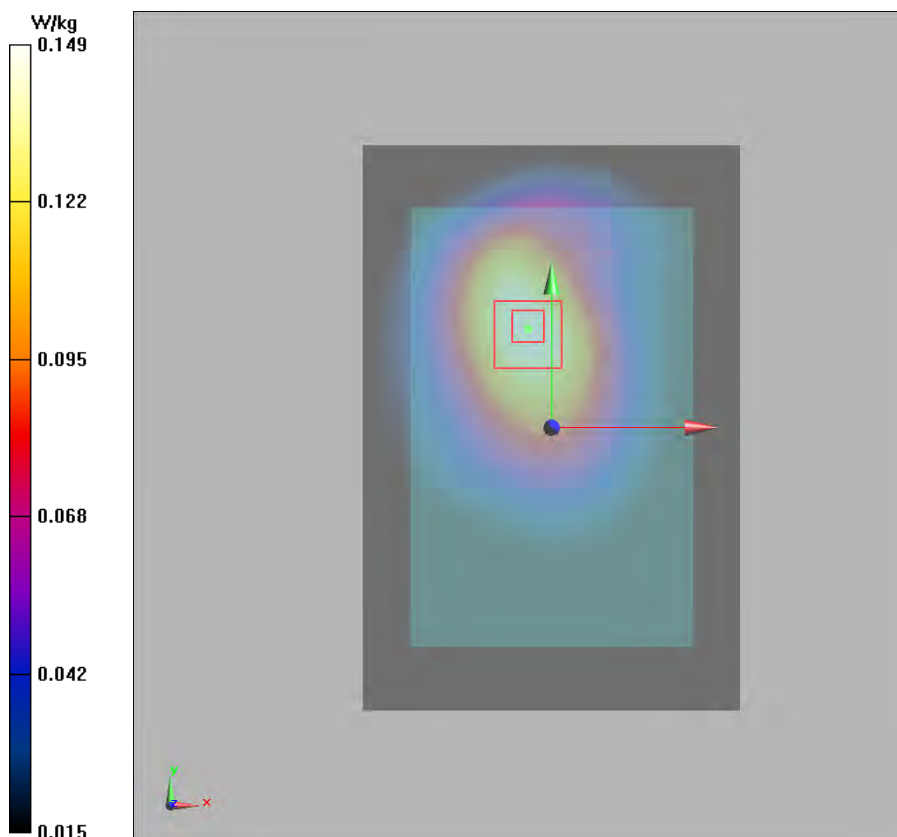
Front Side Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.992 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.149 W/kg



Plot 7 LTE Band 13 1RB Front Side Middle (Distance 5mm)

Date: 6/13/2018

Communication System: UID 0, LTE (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.999 \text{ S/m}$; $\epsilon_r = 56.755$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature: 22.3°C Liquid Temperature: 21.5°C

Phantom section: Flat Section

DASY5 Configuration:

Sensor-Surface: 4mm (Mechanical Surface Detection)

Probe: EX3DV4 - SN3898; ConvF(10.45, 10.45, 10.45); Calibrated: 6/27/2017;

Electronics: DAE4 Sn1291; Calibrated: 10/31/2017

Phantom: SAM1; Type: SAM; Serial: TP-1534

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Front Side Middle/Area Scan (81x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.172 W/kg

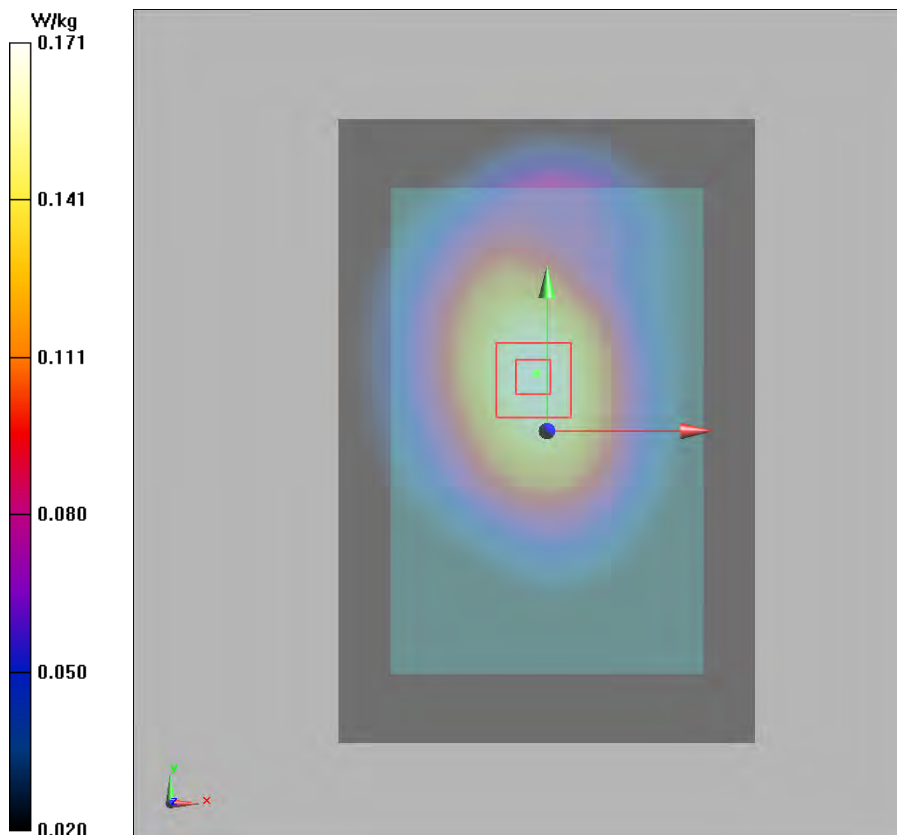
Front Side Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.36 V/m ; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.207 W/kg

SAR(1 g) = 0.162 W/kg ; SAR(10 g) = 0.118 W/kg

Maximum value of SAR (measured) = 0.171 W/kg



ANNEX D: Probe Calibration Certificate

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
S Swiss Calibration Service

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

Accreditation No.: SCS 0108

Client **Auden**

Certificate No: EX3-3898_Jun17

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3898**

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: **June 27, 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 $(22 \pm 3)^{\circ}\text{C}$ 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
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

Calibrated by:	Name Leif Klysner	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	Signature

Issued: June 28, 2017
 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: EX3-3898_Jun17

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Calibration Laboratory of
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S Swiss Calibration Service

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

Accreditation No.: SCS 0108

Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,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 ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,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
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,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 $f \leq 800$ 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 NORM_{x,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 NORM_x (no uncertainty required).



EX3DV4 – SN:3898

June 27, 2017

Probe EX3DV4

SN:3898

Manufactured: October 9, 2012
Calibrated: June 27, 2017

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

EX3DV4- SN:3898

June 27, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.38	0.35	0.31	$\pm 10.1\%$
DCP (mV) ^B	99.1	99.4	100.3	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	143.9	$\pm 2.7\%$
		Y	0.0	0.0	1.0		142.2	
		Z	0.0	0.0	1.0		145.7	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $\text{ms}\cdot\text{V}^{-2}$	T2 $\text{ms}\cdot\text{V}^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	32.49	240.5	35.09	11.03	0.713	4.958	1.269	0.147	1.005
Y	33.00	245.0	35.30	9.807	0.625	4.966	1.221	0.120	1.005
Z	31.60	235.2	35.43	7.345	0.706	4.969	1.116	0.151	1.005

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 E^2 -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.

EX3DV4- SN:3898

June 27, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898

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 (mm) ^g	Unc (k=2)
750	41.9	0.89	10.75	10.75	10.75	0.35	1.03	± 12.0 %
835	41.5	0.90	10.23	10.23	10.23	0.48	0.80	± 12.0 %
900	41.5	0.97	10.03	10.03	10.03	0.49	0.80	± 12.0 %
1750	40.1	1.37	8.63	8.63	8.63	0.37	0.80	± 12.0 %
1900	40.0	1.40	8.37	8.37	8.37	0.33	0.80	± 12.0 %
2000	40.0	1.40	8.36	8.36	8.36	0.35	0.80	± 12.0 %
2300	39.5	1.67	7.91	7.91	7.91	0.36	0.80	± 12.0 %
2450	39.2	1.80	7.55	7.55	7.55	0.39	0.80	± 12.0 %
2600	39.0	1.96	7.37	7.37	7.37	0.38	0.86	± 12.0 %
3500	37.9	2.91	7.31	7.31	7.31	0.25	1.25	± 13.1 %
5250	35.9	4.71	5.62	5.62	5.62	0.35	1.80	± 13.1 %
5600	35.5	5.07	5.03	5.03	5.03	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.18	5.18	5.18	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.

^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 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.



EX3DV4- SN:3898

June 27, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898

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	10.45	10.45	10.45	0.52	0.82	± 12.0 %
835	55.2	0.97	10.40	10.40	10.40	0.49	0.80	± 12.0 %
900	55.0	1.05	10.32	10.32	10.32	0.47	0.80	± 12.0 %
1750	53.4	1.49	8.50	8.50	8.50	0.39	0.80	± 12.0 %
1900	53.3	1.52	8.17	8.17	8.17	0.35	0.84	± 12.0 %
2000	53.3	1.52	8.35	8.35	8.35	0.44	0.80	± 12.0 %
2300	52.9	1.81	7.95	7.95	7.95	0.41	0.80	± 12.0 %
2450	52.7	1.95	7.85	7.85	7.85	0.32	0.95	± 12.0 %
2600	52.5	2.16	7.51	7.51	7.51	0.26	0.95	± 12.0 %
3500	51.3	3.31	6.97	6.97	6.97	0.28	1.25	± 13.1 %
5250	48.9	5.36	5.13	5.13	5.13	0.40	1.90	± 13.1 %
5600	48.5	5.77	4.14	4.14	4.14	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.50	4.50	4.50	0.50	1.90	± 13.1 %

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

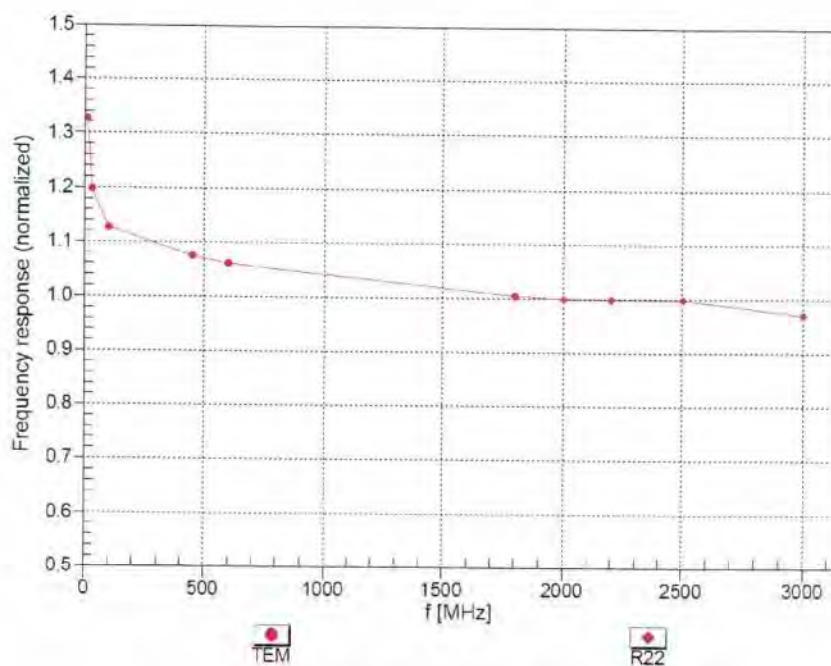
^f At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty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

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

EX3DV4— SN:3898

June 27, 2017

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



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

EX3DV4- SN:3898

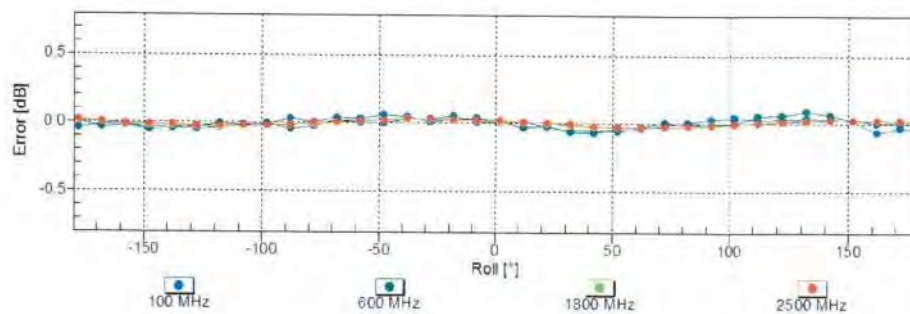
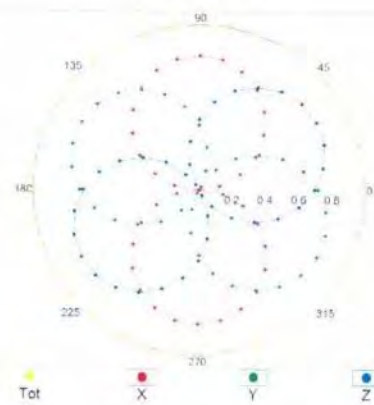
June 27, 2017

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

f=600 MHz,TEM



f=1800 MHz,R22

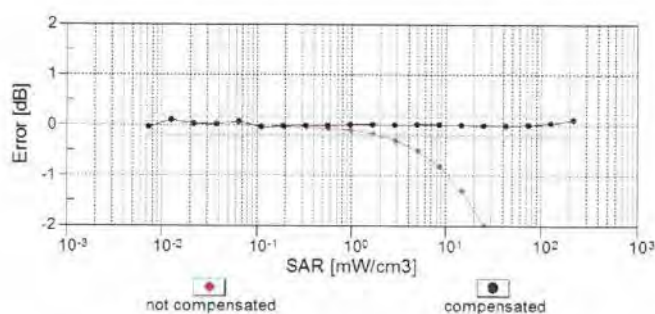
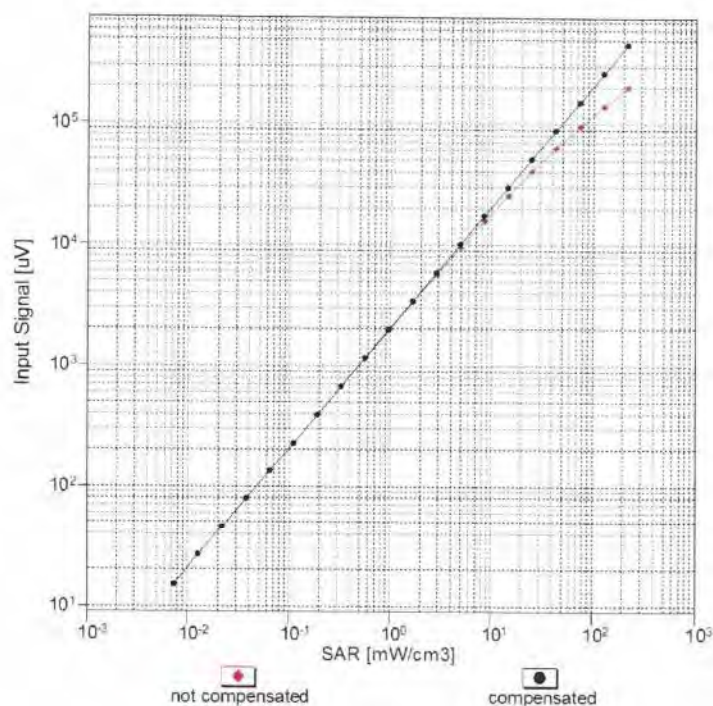


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

EX3DV4- SN:3898

June 27, 2017

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$)

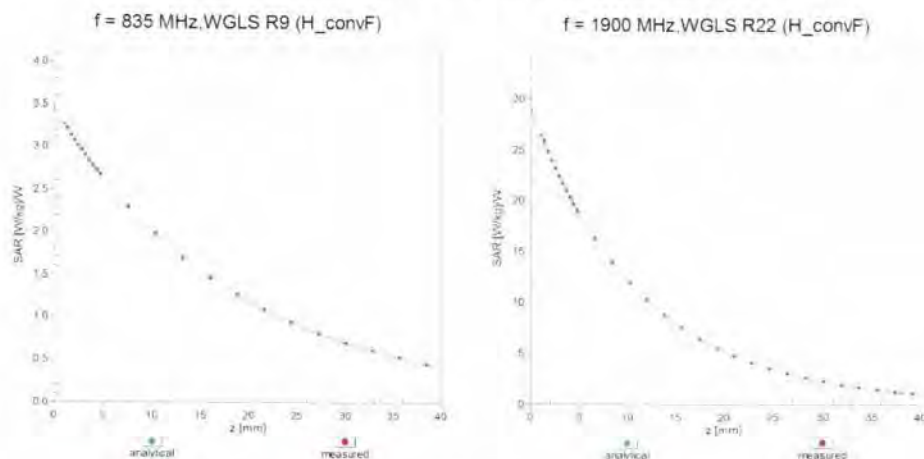


Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

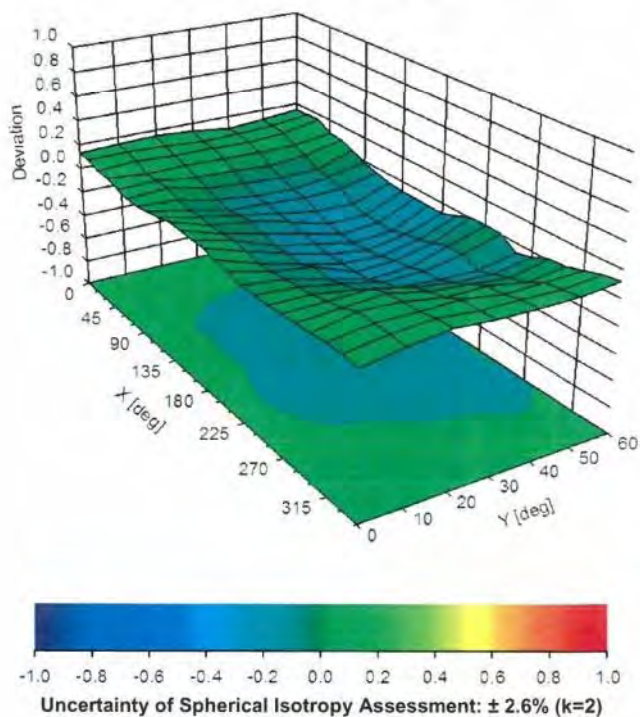
EX3DV4- SN:3898

June 27, 2017

Conversion Factor Assessment



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



EX3DV4- SN:3898

June 27, 2017

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	112
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 dB $\sqrt{\mu V}$	C	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	143.9	$\pm 2.7\%$
		Y	0.00	0.00	1.00		142.2	
		Z	0.00	0.00	1.00		145.7	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	2.36	65.22	10.01	10.00	20.0	$\pm 9.6\%$
		Y	2.38	65.50	10.11		20.0	
		Z	2.49	65.99	10.50		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	0.97	66.94	14.95	0.00	150.0	$\pm 9.6\%$
		Y	1.04	68.03	15.67		150.0	
		Z	0.97	66.89	14.93		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.16	63.59	14.83	0.41	150.0	$\pm 9.6\%$
		Y	1.18	63.88	15.16		150.0	
		Z	1.15	63.44	14.80		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.63	66.61	16.74	1.46	150.0	$\pm 9.6\%$
		Y	4.65	66.69	16.86		150.0	
		Z	4.62	66.62	16.77		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	9.40	81.38	17.52	9.39	50.0	$\pm 9.6\%$
		Y	16.05	87.81	19.48		50.0	
		Z	22.43	92.46	21.10		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	7.11	77.84	16.31	9.57	50.0	$\pm 9.6\%$
		Y	10.05	82.09	17.71		50.0	
		Z	11.78	84.47	18.73		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	13.45	86.10	17.72	6.56	60.0	$\pm 9.6\%$
		Y	100.00	106.94	22.92		60.0	
		Z	100.00	108.65	23.66		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	3.63	65.06	22.13	12.57	50.0	$\pm 9.6\%$
		Y	5.18	76.12	28.60		50.0	
		Z	3.25	61.92	20.33		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	6.62	83.09	28.34	9.56	60.0	$\pm 9.6\%$
		Y	7.13	86.03	30.02		60.0	
		Z	5.66	79.86	27.23		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	105.78	21.78	4.80	80.0	$\pm 9.6\%$
		Y	100.00	107.41	22.39		80.0	
		Z	100.00	109.53	23.24		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	107.00	21.71	3.55	100.0	$\pm 9.6\%$
		Y	100.00	109.56	22.70		100.0	
		Z	100.00	112.11	23.68		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	4.64	75.90	24.34	7.80	80.0	$\pm 9.6\%$
		Y	4.68	76.87	25.15		80.0	
		Z	4.08	73.46	23.48		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	5.90	78.01	14.62	5.30	70.0	$\pm 9.6\%$
		Y	25.51	92.34	18.68		70.0	
		Z	25.49	93.66	19.29		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	106.02	20.18	1.88	100.0	$\pm 9.6\%$
		Y	100.00	109.92	21.67		100.0	
		Z	100.00	111.87	22.32		100.0	

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10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	114.56	22.90	1.17	100.0	± 9.6 %
		Y	100.00	122.28	25.84		100.0	
		Z	100.00	123.55	26.18		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	3.55	73.49	16.00	5.30	70.0	± 9.6 %
		Y	4.05	76.03	17.25		70.0	
		Z	3.36	73.75	16.36		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	1.68	68.28	12.61	1.88	100.0	± 9.6 %
		Y	1.85	69.87	13.55		100.0	
		Z	1.56	68.16	12.68		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	1.37	67.38	12.10	1.17	100.0	± 9.6 %
		Y	1.50	68.80	12.97		100.0	
		Z	1.28	67.19	12.08		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	3.90	74.92	16.61	5.30	70.0	± 9.6 %
		Y	4.61	77.96	18.03		70.0	
		Z	3.72	75.34	17.04		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	1.57	67.63	12.31	1.88	100.0	± 9.6 %
		Y	1.70	69.04	13.19		100.0	
		Z	1.45	67.44	12.35		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	1.37	67.55	12.30	1.17	100.0	± 9.6 %
		Y	1.50	69.01	13.19		100.0	
		Z	1.28	67.33	12.27		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	1.30	69.04	12.94	0.00	150.0	± 9.6 %
		Y	1.55	71.17	14.03		150.0	
		Z	1.24	68.56	12.61		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	5.68	76.10	14.67	7.78	50.0	± 9.6 %
		Y	9.76	82.03	16.60		50.0	
		Z	12.77	85.55	17.89		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.01	90.50	0.61	0.00	150.0	± 9.6 %
		Y	0.01	91.46	2.87		150.0	
		Z	0.01	90.61	1.44		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	5.51	71.14	15.12	13.80	25.0	± 9.6 %
		Y	6.15	72.46	15.57		25.0	
		Z	6.71	73.40	16.16		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	5.68	73.94	15.07	10.79	40.0	± 9.6 %
		Y	6.47	75.65	15.68		40.0	
		Z	7.05	76.86	16.35		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	6.87	78.23	18.34	9.03	50.0	± 9.6 %
		Y	8.46	81.68	19.73		50.0	
		Z	7.33	79.69	19.06		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	3.79	72.47	22.17	6.55	100.0	± 9.6 %
		Y	3.76	72.88	22.68		100.0	
		Z	3.40	70.54	21.50		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.18	64.29	15.13	0.61	110.0	± 9.6 %
		Y	1.19	64.62	15.50		110.0	
		Z	1.15	64.01	15.07		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	2.28	80.40	19.85	1.30	110.0	± 9.6 %
		Y	3.16	86.37	22.34		110.0	
		Z	1.76	77.97	19.44		110.0	

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10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	1.88	72.36	18.12	2.04	110.0	± 9.6 %
		Y	1.96	73.75	19.06		110.0	
		Z	1.64	70.87	17.81		110.0	
10062-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.44	66.67	16.29	0.49	100.0	± 9.6 %
		Y	4.47	66.75	16.40		100.0	
		Z	4.43	66.68	16.31		100.0	
10063-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.45	66.73	16.35	0.72	100.0	± 9.6 %
		Y	4.47	66.82	16.46		100.0	
		Z	4.44	66.74	16.38		100.0	
10064-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.67	66.90	16.51	0.86	100.0	± 9.6 %
		Y	4.70	66.98	16.63		100.0	
		Z	4.66	66.90	16.54		100.0	
10065-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.54	66.69	16.54	1.21	100.0	± 9.6 %
		Y	4.57	66.78	16.66		100.0	
		Z	4.53	66.69	16.57		100.0	
10066-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.55	66.64	16.64	1.46	100.0	± 9.6 %
		Y	4.57	66.74	16.77		100.0	
		Z	4.53	66.63	16.67		100.0	
10067-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	4.82	66.89	17.07	2.04	100.0	± 9.6 %
		Y	4.85	67.00	17.21		100.0	
		Z	4.80	66.88	17.10		100.0	
10068-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	4.85	66.79	17.19	2.55	100.0	± 9.6 %
		Y	4.88	66.89	17.34		100.0	
		Z	4.84	66.77	17.22		100.0	
10069-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	4.91	66.79	17.35	2.67	100.0	± 9.6 %
		Y	4.94	66.90	17.51		100.0	
		Z	4.89	66.76	17.38		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.72	66.64	16.98	1.99	100.0	± 9.6 %
		Y	4.74	66.72	17.11		100.0	
		Z	4.70	66.64	17.01		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.66	66.81	17.11	2.30	100.0	± 9.6 %
		Y	4.68	66.91	17.25		100.0	
		Z	4.64	66.80	17.14		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.72	66.97	17.39	2.83	100.0	± 9.6 %
		Y	4.74	67.07	17.55		100.0	
		Z	4.70	66.94	17.43		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.74	66.94	17.53	3.30	100.0	± 9.6 %
		Y	4.76	67.04	17.69		100.0	
		Z	4.72	66.91	17.56		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.77	66.95	17.74	3.82	90.0	± 9.6 %
		Y	4.78	67.04	17.91		90.0	
		Z	4.74	66.89	17.77		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.81	66.85	17.91	4.15	90.0	± 9.6 %
		Y	4.82	66.94	18.08		90.0	
		Z	4.79	66.79	17.94		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	4.85	66.95	18.02	4.30	90.0	± 9.6 %
		Y	4.86	67.03	18.19		90.0	
		Z	4.82	66.88	18.05		90.0	

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10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.66	64.51	10.46	0.00	150.0	± 9.6 %
		Y	0.73	65.64	11.22		150.0	
		Z	0.65	64.36	10.28		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	0.56	57.02	2.34	4.77	80.0	± 9.6 %
		Y	0.50	57.27	2.55		80.0	
		Z	0.72	60.56	4.69		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	12.76	85.53	17.57	6.56	60.0	± 9.6 %
		Y	100.00	106.92	22.92		60.0	
		Z	100.00	108.63	23.67		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.81	68.44	15.60	0.00	150.0	± 9.6 %
		Y	1.88	69.07	16.03		150.0	
		Z	1.81	68.48	15.60		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.77	68.36	15.57	0.00	150.0	± 9.6 %
		Y	1.84	69.01	16.01		150.0	
		Z	1.77	68.40	15.57		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	6.65	83.17	28.36	9.56	60.0	± 9.6 %
		Y	7.18	86.14	30.05		60.0	
		Z	5.69	79.94	27.25		60.0	
10100-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	2.91	69.85	16.63	0.00	150.0	± 9.6 %
		Y	3.00	70.32	16.93		150.0	
		Z	2.90	69.77	16.63		150.0	
10101-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.08	67.30	15.83	0.00	150.0	± 9.6 %
		Y	3.12	67.53	16.02		150.0	
		Z	3.07	67.26	15.83		150.0	
10102-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.19	67.35	15.95	0.00	150.0	± 9.6 %
		Y	3.22	67.55	16.12		150.0	
		Z	3.18	67.32	15.96		150.0	
10103-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	5.34	73.16	19.00	3.98	65.0	± 9.6 %
		Y	5.40	73.67	19.39		65.0	
		Z	4.60	71.12	18.33		65.0	
10104-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5.56	71.82	19.11	3.98	65.0	± 9.6 %
		Y	5.54	72.04	19.38		65.0	
		Z	5.21	71.00	18.89		65.0	
10105-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.34	70.90	19.01	3.98	65.0	± 9.6 %
		Y	5.32	71.12	19.27		65.0	
		Z	4.66	68.69	18.12		65.0	
10108-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.51	69.21	16.45	0.00	150.0	± 9.6 %
		Y	2.58	69.70	16.77		150.0	
		Z	2.50	69.15	16.45		150.0	
10109-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.72	67.32	15.69	0.00	150.0	± 9.6 %
		Y	2.77	67.58	15.90		150.0	
		Z	2.71	67.30	15.69		150.0	
10110-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.00	68.45	15.89	0.00	150.0	± 9.6 %
		Y	2.08	69.04	16.29		150.0	
		Z	1.99	68.40	15.88		150.0	
10111-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.48	68.76	16.00	0.00	150.0	± 9.6 %
		Y	2.54	69.09	16.25		150.0	
		Z	2.48	68.79	15.99		150.0	

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10112-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.85	67.43	15.79	0.00	150.0	± 9.6 %
		Y	2.89	67.66	15.98		150.0	
		Z	2.84	67.42	15.79		150.0	
10113-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.63	68.98	16.15	0.00	150.0	± 9.6 %
		Y	2.68	69.26	16.38		150.0	
		Z	2.62	69.01	16.14		150.0	
10114-CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	4.93	67.18	16.42	0.00	150.0	± 9.6 %
		Y	4.96	67.24	16.50		150.0	
		Z	4.93	67.19	16.45		150.0	
10115-CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.17	67.22	16.44	0.00	150.0	± 9.6 %
		Y	5.19	67.28	16.52		150.0	
		Z	5.16	67.22	16.46		150.0	
10116-CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.00	67.33	16.43	0.00	150.0	± 9.6 %
		Y	5.03	67.41	16.51		150.0	
		Z	5.00	67.33	16.45		150.0	
10117-CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	4.92	67.09	16.40	0.00	150.0	± 9.6 %
		Y	4.94	67.16	16.48		150.0	
		Z	4.91	67.08	16.41		150.0	
10118-CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.24	67.41	16.54	0.00	150.0	± 9.6 %
		Y	5.27	67.48	16.62		150.0	
		Z	5.23	67.40	16.55		150.0	
10119-CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.01	67.35	16.44	0.00	150.0	± 9.6 %
		Y	5.04	67.42	16.53		150.0	
		Z	5.01	67.36	16.47		150.0	
10140-CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.20	67.37	15.86	0.00	150.0	± 9.6 %
		Y	3.24	67.57	16.03		150.0	
		Z	3.19	67.34	15.86		150.0	
10141-CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.33	67.58	16.07	0.00	150.0	± 9.6 %
		Y	3.37	67.75	16.23		150.0	
		Z	3.32	67.56	16.09		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.77	68.44	15.19	0.00	150.0	± 9.6 %
		Y	1.85	69.19	15.67		150.0	
		Z	1.75	68.38	15.13		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.28	69.18	15.08	0.00	150.0	± 9.6 %
		Y	2.37	69.74	15.46		150.0	
		Z	2.25	69.10	14.98		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	1.90	65.81	12.85	0.00	150.0	± 9.6 %
		Y	1.97	66.25	13.19		150.0	
		Z	1.87	65.68	12.71		150.0	
10145-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	0.75	61.28	7.87	0.00	150.0	± 9.6 %
		Y	0.79	61.77	8.31		150.0	
		Z	0.72	60.96	7.53		150.0	
10146-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	0.94	60.26	6.31	0.00	150.0	± 9.6 %
		Y	0.97	60.64	6.68		150.0	
		Z	0.88	60.00	6.02		150.0	
10147-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	0.98	60.58	6.58	0.00	150.0	± 9.6 %
		Y	1.02	61.02	6.98		150.0	
		Z	0.91	60.11	6.15		150.0	

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10149-CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.73	67.39	15.75	0.00	150.0	± 9.6 %
		Y	2.78	67.65	15.96		150.0	
		Z	2.72	67.37	15.75		150.0	
10150-CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	2.86	67.50	15.84	0.00	150.0	± 9.6 %
		Y	2.90	67.73	16.03		150.0	
		Z	2.85	67.49	15.84		150.0	
10151-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	5.53	75.34	19.83	3.98	65.0	± 9.6 %
		Y	5.61	76.00	20.31		65.0	
		Z	5.08	74.50	19.70		65.0	
10152-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.02	71.45	18.44	3.98	65.0	± 9.6 %
		Y	5.02	71.77	18.77		65.0	
		Z	4.68	70.65	18.22		65.0	
10153-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.43	72.70	19.38	3.98	65.0	± 9.6 %
		Y	5.41	72.94	19.67		65.0	
		Z	5.06	71.88	19.17		65.0	
10154-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.05	68.86	16.15	0.00	150.0	± 9.6 %
		Y	2.12	69.44	16.53		150.0	
		Z	2.04	68.82	16.14		150.0	
10155-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.49	68.81	16.03	0.00	150.0	± 9.6 %
		Y	2.54	69.14	16.28		150.0	
		Z	2.48	68.84	16.03		150.0	
10156-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.58	68.16	14.58	0.00	150.0	± 9.6 %
		Y	1.68	69.02	15.13		150.0	
		Z	1.56	68.05	14.47		150.0	
10157-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	1.70	65.93	12.48	0.00	150.0	± 9.6 %
		Y	1.78	66.49	12.89		150.0	
		Z	1.66	65.72	12.29		150.0	
10158-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.64	69.08	16.22	0.00	150.0	± 9.6 %
		Y	2.69	69.36	16.44		150.0	
		Z	2.64	69.12	16.21		150.0	
10159-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	1.78	66.26	12.68	0.00	150.0	± 9.6 %
		Y	1.86	66.85	13.10		150.0	
		Z	1.74	66.02	12.46		150.0	
10160-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.56	68.64	16.25	0.00	150.0	± 9.6 %
		Y	2.63	69.06	16.53		150.0	
		Z	2.55	68.63	16.25		150.0	
10161-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.75	67.48	15.71	0.00	150.0	± 9.6 %
		Y	2.79	67.73	15.91		150.0	
		Z	2.74	67.48	15.70		150.0	
10162-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.86	67.74	15.86	0.00	150.0	± 9.6 %
		Y	2.90	67.97	16.06		150.0	
		Z	2.85	67.74	15.86		150.0	
10166-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.15	68.95	18.91	3.01	150.0	± 9.6 %
		Y	3.17	69.13	19.12		150.0	
		Z	3.08	68.65	18.81		150.0	
10167-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	3.77	72.21	19.51	3.01	150.0	± 9.6 %
		Y	3.79	72.51	19.79		150.0	
		Z	3.62	71.66	19.32		150.0	

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10168-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.40	75.66	21.46	3.01	150.0	± 9.6 %
		Y	4.36	75.65	21.58		150.0	
		Z	4.22	75.12	21.31		150.0	
10169-CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.61	67.74	18.35	3.01	150.0	± 9.6 %
		Y	2.59	67.78	18.53		150.0	
		Z	2.55	67.29	18.17		150.0	
10170-CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.58	74.69	21.32	3.01	150.0	± 9.6 %
		Y	3.46	74.45	21.40		150.0	
		Z	3.38	73.77	21.02		150.0	
10171-AAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.81	69.59	17.94	3.01	150.0	± 9.6 %
		Y	2.78	69.86	18.27		150.0	
		Z	2.67	68.85	17.66		150.0	
10172-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.79	76.98	22.56	6.02	65.0	± 9.6 %
		Y	3.93	78.65	23.67		65.0	
		Z	2.71	71.26	20.45		65.0	
10173-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	6.07	83.26	22.96	6.02	65.0	± 9.6 %
		Y	6.67	86.09	24.37		65.0	
		Z	4.93	80.81	22.46		65.0	
10174-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.48	74.02	19.09	6.02	65.0	± 9.6 %
		Y	5.11	80.99	22.02		65.0	
		Z	2.54	69.95	17.79		65.0	
10175-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.58	67.41	18.08	3.01	150.0	± 9.6 %
		Y	2.56	67.49	18.28		150.0	
		Z	2.52	66.97	17.90		150.0	
10176-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.58	74.71	21.34	3.01	150.0	± 9.6 %
		Y	3.47	74.48	21.41		150.0	
		Z	3.38	73.80	21.04		150.0	
10177-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.60	67.55	18.17	3.01	150.0	± 9.6 %
		Y	2.58	67.61	18.36		150.0	
		Z	2.53	67.10	17.98		150.0	
10178-CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.55	74.51	21.23	3.01	150.0	± 9.6 %
		Y	3.44	74.31	21.32		150.0	
		Z	3.35	73.60	20.93		150.0	
10179-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.14	71.91	19.46	3.01	150.0	± 9.6 %
		Y	3.09	72.04	19.71		150.0	
		Z	2.97	71.07	19.16		150.0	
10180-CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	2.81	69.54	17.90	3.01	150.0	± 9.6 %
		Y	2.78	69.82	18.24		150.0	
		Z	2.67	68.81	17.63		150.0	
10181-CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.59	67.53	18.16	3.01	150.0	± 9.6 %
		Y	2.57	67.60	18.35		150.0	
		Z	2.53	67.08	17.98		150.0	
10182-CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.55	74.48	21.21	3.01	150.0	± 9.6 %
		Y	3.44	74.29	21.31		150.0	
		Z	3.35	73.57	20.91		150.0	
10183-AAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	2.80	69.52	17.89	3.01	150.0	± 9.6 %
		Y	2.78	69.80	18.23		150.0	
		Z	2.67	68.78	17.61		150.0	

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10184-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.60	67.57	18.18	3.01	150.0	± 9.6 %
		Y	2.58	67.63	18.37		150.0	
		Z	2.54	67.12	18.00		150.0	
10185-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.57	74.57	21.26	3.01	150.0	± 9.6 %
		Y	3.45	74.37	21.35		150.0	
		Z	3.36	73.66	20.96		150.0	
10186-AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	2.81	69.58	17.93	3.01	150.0	± 9.6 %
		Y	2.79	69.86	18.26		150.0	
		Z	2.68	68.85	17.65		150.0	
10187-CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.61	67.66	18.27	3.01	150.0	± 9.6 %
		Y	2.59	67.72	18.46		150.0	
		Z	2.55	67.21	18.09		150.0	
10188-CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	3.70	75.36	21.71	3.01	150.0	± 9.6 %
		Y	3.56	75.05	21.74		150.0	
		Z	3.49	74.43	21.41		150.0	
10189-AAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	2.88	70.03	18.23	3.01	150.0	± 9.6 %
		Y	2.85	70.29	18.55		150.0	
		Z	2.74	69.27	17.94		150.0	
10193-CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.34	66.89	16.12	0.00	150.0	± 9.6 %
		Y	4.37	66.96	16.21		150.0	
		Z	4.34	66.91	16.13		150.0	
10194-CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.47	67.10	16.25	0.00	150.0	± 9.6 %
		Y	4.50	67.17	16.34		150.0	
		Z	4.46	67.10	16.26		150.0	
10195-CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.50	67.10	16.26	0.00	150.0	± 9.6 %
		Y	4.53	67.18	16.35		150.0	
		Z	4.49	67.10	16.27		150.0	
10196-CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.32	66.87	16.10	0.00	150.0	± 9.6 %
		Y	4.35	66.94	16.19		150.0	
		Z	4.31	66.88	16.11		150.0	
10197-CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.48	67.09	16.25	0.00	150.0	± 9.6 %
		Y	4.51	67.17	16.34		150.0	
		Z	4.47	67.10	16.27		150.0	
10198-CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.50	67.09	16.26	0.00	150.0	± 9.6 %
		Y	4.52	67.17	16.35		150.0	
		Z	4.48	67.10	16.27		150.0	
10219-CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.28	66.92	16.08	0.00	150.0	± 9.6 %
		Y	4.31	66.99	16.17		150.0	
		Z	4.27	66.93	16.09		150.0	
10220-CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.47	67.06	16.24	0.00	150.0	± 9.6 %
		Y	4.50	67.13	16.33		150.0	
		Z	4.46	67.06	16.25		150.0	
10221-CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.51	67.05	16.25	0.00	150.0	± 9.6 %
		Y	4.54	67.12	16.34		150.0	
		Z	4.50	67.05	16.26		150.0	
10222-CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	4.90	67.09	16.38	0.00	150.0	± 9.6 %
		Y	4.92	67.16	16.47		150.0	
		Z	4.89	67.09	16.41		150.0	

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10223-CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.14	67.23	16.46	0.00	150.0	± 9.6 %
		Y	5.17	67.30	16.55		150.0	
		Z	5.13	67.21	16.47		150.0	
10224-CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	4.93	67.22	16.38	0.00	150.0	± 9.6 %
		Y	4.96	67.28	16.46		150.0	
		Z	4.93	67.22	16.40		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.62	66.31	14.82	0.00	150.0	± 9.6 %
		Y	2.66	66.52	15.02		150.0	
		Z	2.61	66.30	14.77		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	6.48	84.45	23.47	6.02	65.0	± 9.6 %
		Y	7.14	87.35	24.90		65.0	
		Z	5.23	81.91	22.96		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	6.16	82.63	22.19	6.02	65.0	± 9.6 %
		Y	6.82	85.45	23.56		65.0	
		Z	5.09	80.65	21.86		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	4.45	80.06	23.79	6.02	65.0	± 9.6 %
		Y	4.60	81.69	24.86		65.0	
		Z	3.70	77.27	23.00		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	6.12	83.36	23.00	6.02	65.0	± 9.6 %
		Y	6.72	86.19	24.41		65.0	
		Z	4.96	80.92	22.50		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	5.79	81.58	21.75	6.02	65.0	± 9.6 %
		Y	6.38	84.30	23.09		65.0	
		Z	4.80	79.65	21.42		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	4.29	79.30	23.42	6.02	65.0	± 9.6 %
		Y	4.43	80.94	24.49		65.0	
		Z	3.58	76.59	22.64		65.0	
10232-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	6.11	83.34	23.00	6.02	65.0	± 9.6 %
		Y	6.71	86.18	24.41		65.0	
		Z	4.95	80.90	22.50		65.0	
10233-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	5.77	81.55	21.74	6.02	65.0	± 9.6 %
		Y	6.36	84.27	23.09		65.0	
		Z	4.79	79.62	21.41		65.0	
10234-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	4.16	78.66	23.05	6.02	65.0	± 9.6 %
		Y	4.31	80.31	24.14		65.0	
		Z	3.49	76.04	22.30		65.0	
10235-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	6.11	83.36	23.00	6.02	65.0	± 9.6 %
		Y	6.72	86.20	24.42		65.0	
		Z	4.95	80.91	22.50		65.0	
10236-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	5.82	81.66	21.77	6.02	65.0	± 9.6 %
		Y	6.43	84.41	23.13		65.0	
		Z	4.83	79.73	21.44		65.0	
10237-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	4.28	79.31	23.42	6.02	65.0	± 9.6 %
		Y	4.43	80.96	24.51		65.0	
		Z	3.57	76.59	22.65		65.0	
10238-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.09	83.32	22.99	6.02	65.0	± 9.6 %
		Y	6.69	86.15	24.40		65.0	
		Z	4.94	80.87	22.48		65.0	

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10239-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	5.75	81.51	21.73	6.02	65.0	± 9.6 %
		Y	6.34	84.22	23.07		65.0	
		Z	4.77	79.58	21.39		65.0	
10240-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	4.28	79.29	23.41	6.02	65.0	± 9.6 %
		Y	4.42	80.94	24.50		65.0	
		Z	3.57	76.57	22.64		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	6.77	79.45	24.10	6.98	65.0	± 9.6 %
		Y	6.85	80.27	24.72		65.0	
		Z	6.13	77.95	23.67		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.14	77.59	23.28	6.98	65.0	± 9.6 %
		Y	6.25	78.54	23.96		65.0	
		Z	4.91	73.61	21.77		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.06	74.01	22.62	6.98	65.0	± 9.6 %
		Y	5.14	74.80	23.27		65.0	
		Z	4.26	70.67	21.23		65.0	
10244-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	3.23	66.79	12.34	3.98	65.0	± 9.6 %
		Y	3.28	67.33	12.79		65.0	
		Z	2.96	66.23	12.11		65.0	
10245-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	3.19	66.42	12.11	3.98	65.0	± 9.6 %
		Y	3.22	66.91	12.53		65.0	
		Z	2.93	65.87	11.87		65.0	
10246-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	2.96	68.62	13.78	3.98	65.0	± 9.6 %
		Y	3.06	69.45	14.37		65.0	
		Z	2.72	68.15	13.68		65.0	
10247-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	3.59	68.52	14.48	3.98	65.0	± 9.6 %
		Y	3.63	68.99	14.89		65.0	
		Z	3.34	68.01	14.32		65.0	
10248-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	3.58	68.09	14.27	3.98	65.0	± 9.6 %
		Y	3.61	68.50	14.66		65.0	
		Z	3.33	67.54	14.09		65.0	
10249-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	4.18	73.60	17.26	3.98	65.0	± 9.6 %
		Y	4.38	74.81	17.99		65.0	
		Z	3.80	72.97	17.18		65.0	
10250-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	4.93	73.22	18.87	3.98	65.0	± 9.6 %
		Y	4.93	73.57	19.23		65.0	
		Z	4.57	72.45	18.70		65.0	
10251-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	4.63	71.06	17.52	3.98	65.0	± 9.6 %
		Y	4.65	71.45	17.89		65.0	
		Z	4.30	70.32	17.31		65.0	
10252-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	5.25	76.57	19.99	3.98	65.0	± 9.6 %
		Y	5.40	77.56	20.62		65.0	
		Z	4.75	75.64	19.84		65.0	
10253-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	4.96	71.14	18.18	3.98	65.0	± 9.6 %
		Y	4.96	71.44	18.50		65.0	
		Z	4.63	70.37	17.96		65.0	
10254-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	5.31	72.19	18.96	3.98	65.0	± 9.6 %
		Y	5.29	72.43	19.26		65.0	
		Z	4.96	71.40	18.75		65.0	

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10255-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	5.33	74.86	19.75	3.98	65.0	± 9.6 %
		Y	5.39	75.47	20.21		65.0	
		Z	4.90	73.99	19.59		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.38	63.32	9.37	3.98	65.0	± 9.6 %
		Y	2.38	63.59	9.67		65.0	
		Z	2.18	62.86	9.11		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.36	63.00	9.11	3.98	65.0	± 9.6 %
		Y	2.36	63.24	9.38		65.0	
		Z	2.17	62.55	8.84		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	2.16	64.45	10.62	3.98	65.0	± 9.6 %
		Y	2.18	64.85	11.00		65.0	
		Z	1.99	64.02	10.45		65.0	
10259-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	4.09	70.30	16.08	3.98	65.0	± 9.6 %
		Y	4.13	70.78	16.51		65.0	
		Z	3.80	69.71	15.93		65.0	
10260-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	4.13	70.10	15.99	3.98	65.0	± 9.6 %
		Y	4.16	70.56	16.39		65.0	
		Z	3.84	69.52	15.83		65.0	
10261-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	4.48	74.35	18.15	3.98	65.0	± 9.6 %
		Y	4.65	75.44	18.83		65.0	
		Z	4.08	73.63	18.05		65.0	
10262-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	4.91	73.13	18.81	3.98	65.0	± 9.6 %
		Y	4.91	73.49	19.17		65.0	
		Z	4.55	72.36	18.64		65.0	
10263-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	4.63	71.04	17.51	3.98	65.0	± 9.6 %
		Y	4.64	71.43	17.88		65.0	
		Z	4.30	70.31	17.31		65.0	
10264-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	5.19	76.37	19.88	3.98	65.0	± 9.6 %
		Y	5.35	77.36	20.52		65.0	
		Z	4.70	75.44	19.74		65.0	
10265-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.02	71.45	18.45	3.98	65.0	± 9.6 %
		Y	5.02	71.77	18.78		65.0	
		Z	4.68	70.65	18.23		65.0	
10266-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	5.43	72.69	19.37	3.98	65.0	± 9.6 %
		Y	5.41	72.93	19.66		65.0	
		Z	5.06	71.87	19.16		65.0	
10267-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	5.52	75.30	19.82	3.98	65.0	± 9.6 %
		Y	5.60	75.96	20.29		65.0	
		Z	5.07	74.46	19.68		65.0	
10268-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	5.75	71.95	19.26	3.98	65.0	± 9.6 %
		Y	5.72	72.12	19.51		65.0	
		Z	5.40	71.15	19.04		65.0	
10269-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	5.78	71.69	19.18	3.98	65.0	± 9.6 %
		Y	5.74	71.84	19.41		65.0	
		Z	5.43	70.91	18.96		65.0	
10270-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	5.71	73.67	19.40	3.98	65.0	± 9.6 %
		Y	5.72	74.02	19.72		65.0	
		Z	5.33	72.93	19.27		65.0	

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10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.47	66.92	14.90	0.00	150.0	± 9.6 %
		Y	2.52	67.22	15.16		150.0	
		Z	2.46	66.92	14.87		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.51	67.86	15.29	0.00	150.0	± 9.6 %
		Y	1.59	68.65	15.81		150.0	
		Z	1.51	67.83	15.27		150.0	
10277-CAA	PHS (QPSK)	X	1.93	60.30	5.80	9.03	50.0	± 9.6 %
		Y	1.90	60.39	5.82		50.0	
		Z	1.85	60.15	5.70		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	2.95	64.62	10.30	9.03	50.0	± 9.6 %
		Y	2.95	64.90	10.48		50.0	
		Z	2.89	64.62	10.32		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	3.00	64.77	10.42	9.03	50.0	± 9.6 %
		Y	3.00	65.06	10.62		50.0	
		Z	2.93	64.75	10.45		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	0.97	65.51	10.99	0.00	150.0	± 9.6 %
		Y	1.07	66.68	11.73		150.0	
		Z	0.93	65.15	10.70		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.65	64.31	10.33	0.00	150.0	± 9.6 %
		Y	0.71	65.39	11.08		150.0	
		Z	0.64	64.16	10.15		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	0.98	69.87	13.37	0.00	150.0	± 9.6 %
		Y	1.27	73.08	14.92		150.0	
		Z	0.97	69.74	13.20		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	3.47	85.51	19.51	0.00	150.0	± 9.6 %
		Y	8.72	97.43	23.23		150.0	
		Z	3.75	86.24	19.59		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	9.05	80.79	19.88	9.03	50.0	± 9.6 %
		Y	10.39	83.34	20.97		50.0	
		Z	10.43	83.10	20.75		50.0	
10297-AAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.52	69.33	16.53	0.00	150.0	± 9.6 %
		Y	2.60	69.81	16.85		150.0	
		Z	2.51	69.27	16.53		150.0	
10298-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.13	65.04	11.44	0.00	150.0	± 9.6 %
		Y	1.21	65.84	12.00		150.0	
		Z	1.10	64.74	11.18		150.0	
10299-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	1.48	63.88	9.66	0.00	150.0	± 9.6 %
		Y	1.56	64.58	10.18		150.0	
		Z	1.37	63.27	9.22		150.0	
10300-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.17	61.20	7.51	0.00	150.0	± 9.6 %
		Y	1.21	61.53	7.83		150.0	
		Z	1.11	60.84	7.18		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.17	64.58	16.68	4.17	50.0	± 9.6 %
		Y	4.21	64.70	16.82		50.0	
		Z	4.18	64.69	16.72		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	4.78	65.73	17.66	4.96	50.0	± 9.6 %
		Y	4.81	65.86	17.81		50.0	
		Z	4.78	65.91	17.76		50.0	

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10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.55	65.41	17.46	4.96	50.0	± 9.6 %
		Y	4.58	65.52	17.61		50.0	
		Z	4.56	65.64	17.60		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.38	65.40	17.04	4.17	50.0	± 9.6 %
		Y	4.41	65.50	17.18		50.0	
		Z	4.35	65.34	16.99		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.06	67.11	18.40	6.02	35.0	± 9.6 %
		Y	4.05	67.17	18.58		35.0	
		Z	4.03	67.01	18.26		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.35	66.21	18.28	6.02	35.0	± 9.6 %
		Y	4.35	66.28	18.44		35.0	
		Z	4.33	66.18	18.21		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.24	66.25	18.19	6.02	35.0	± 9.6 %
		Y	4.24	66.31	18.35		35.0	
		Z	4.22	66.21	18.11		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.22	66.45	18.33	6.02	35.0	± 9.6 %
		Y	4.22	66.51	18.50		35.0	
		Z	4.20	66.39	18.25		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.35	66.23	18.34	6.02	35.0	± 9.6 %
		Y	4.36	66.31	18.52		35.0	
		Z	4.33	66.20	18.27		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.30	66.28	18.28	6.02	35.0	± 9.6 %
		Y	4.31	66.35	18.44		35.0	
		Z	4.29	66.25	18.21		35.0	
10311-AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.88	68.59	16.20	0.00	150.0	± 9.6 %
		Y	2.96	69.02	16.48		150.0	
		Z	2.87	68.53	16.21		150.0	
10313-AAA	iDEN 1:3	X	2.75	69.55	14.37	6.99	70.0	± 9.6 %
		Y	2.79	70.41	14.91		70.0	
		Z	2.48	69.40	14.66		70.0	
10314-AAA	iDEN 1:6	X	3.88	75.45	19.52	10.00	30.0	± 9.6 %
		Y	4.05	76.79	20.24		30.0	
		Z	4.02	76.95	20.46		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.08	63.66	14.90	0.17	150.0	± 9.6 %
		Y	1.10	63.98	15.23		150.0	
		Z	1.08	63.57	14.89		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.34	66.68	16.09	0.17	150.0	± 9.6 %
		Y	4.37	66.78	16.20		150.0	
		Z	4.33	66.69	16.11		150.0	
10317-AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.34	66.68	16.09	0.17	150.0	± 9.6 %
		Y	4.37	66.78	16.20		150.0	
		Z	4.33	66.69	16.11		150.0	
10400-AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.42	67.04	16.19	0.00	150.0	± 9.6 %
		Y	4.45	67.14	16.30		150.0	
		Z	4.40	67.03	16.20		150.0	
10401-AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.09	66.82	16.20	0.00	150.0	± 9.6 %
		Y	5.11	66.90	16.30		150.0	
		Z	5.07	66.79	16.21		150.0	

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10402-AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.45	67.43	16.42	0.00	150.0	± 9.6 %
		Y	5.48	67.49	16.50		150.0	
		Z	5.45	67.42	16.44		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	0.97	65.51	10.99	0.00	115.0	± 9.6 %
		Y	1.07	66.68	11.73		115.0	
		Z	0.93	65.15	10.70		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	0.97	65.51	10.99	0.00	115.0	± 9.6 %
		Y	1.07	66.68	11.73		115.0	
		Z	0.93	65.15	10.70		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	114.78	26.32	0.00	100.0	± 9.6 %
		Y	100.00	116.57	27.06		100.0	
		Z	100.00	115.47	26.53		100.0	
10410-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.10	80.03	17.90	3.23	80.0	± 9.6 %
		Y	6.73	87.51	20.67		80.0	
		Z	3.49	79.61	18.20		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.03	63.15	14.59	0.00	150.0	± 9.6 %
		Y	1.05	63.48	14.92		150.0	
		Z	1.03	63.15	14.60		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.33	66.85	16.18	0.00	150.0	± 9.6 %
		Y	4.36	66.92	16.27		150.0	
		Z	4.32	66.85	16.19		150.0	
10417-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.33	66.85	16.18	0.00	150.0	± 9.6 %
		Y	4.36	66.92	16.27		150.0	
		Z	4.32	66.85	16.19		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.33	67.06	16.24	0.00	150.0	± 9.6 %
		Y	4.35	67.14	16.34		150.0	
		Z	4.32	67.07	16.26		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.34	66.99	16.22	0.00	150.0	± 9.6 %
		Y	4.37	67.06	16.32		150.0	
		Z	4.33	67.00	16.24		150.0	
10422-AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.44	66.96	16.23	0.00	150.0	± 9.6 %
		Y	4.47	67.03	16.33		150.0	
		Z	4.44	66.97	16.25		150.0	
10423-AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.56	67.20	16.31	0.00	150.0	± 9.6 %
		Y	4.59	67.28	16.41		150.0	
		Z	4.55	67.20	16.33		150.0	
10424-AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.49	67.15	16.29	0.00	150.0	± 9.6 %
		Y	4.52	67.23	16.39		150.0	
		Z	4.48	67.15	16.30		150.0	
10425-AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.12	67.29	16.47	0.00	150.0	± 9.6 %
		Y	5.15	67.38	16.57		150.0	
		Z	5.11	67.27	16.48		150.0	
10426-AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.14	67.37	16.51	0.00	150.0	± 9.6 %
		Y	5.17	67.45	16.59		150.0	
		Z	5.13	67.38	16.53		150.0	



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10427-AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.10	67.17	16.41	0.00	150.0	± 9.6 %
		Y	5.13	67.24	16.49		150.0	
		Z	5.10	67.18	16.43		150.0	
10430-AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.45	73.55	18.83	0.00	150.0	± 9.6 %
		Y	4.36	73.07	18.66		150.0	
		Z	4.51	73.93	18.97		150.0	
10431-AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	3.93	67.43	16.02	0.00	150.0	± 9.6 %
		Y	3.96	67.55	16.14		150.0	
		Z	3.91	67.44	16.01		150.0	
10432-AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.25	67.26	16.21	0.00	150.0	± 9.6 %
		Y	4.29	67.35	16.32		150.0	
		Z	4.24	67.26	16.22		150.0	
10433-AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.51	67.19	16.32	0.00	150.0	± 9.6 %
		Y	4.54	67.26	16.41		150.0	
		Z	4.50	67.19	16.33		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.61	74.53	18.61	0.00	150.0	± 9.6 %
		Y	4.51	74.05	18.47		150.0	
		Z	4.68	74.88	18.71		150.0	
10435-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.91	79.35	17.61	3.23	80.0	± 9.6 %
		Y	6.25	86.43	20.28		80.0	
		Z	3.34	78.94	17.91		80.0	
10447-AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.14	67.14	14.75	0.00	150.0	± 9.6 %
		Y	3.20	67.36	14.95		150.0	
		Z	3.12	67.09	14.67		150.0	
10448-AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.80	67.24	15.90	0.00	150.0	± 9.6 %
		Y	3.84	67.36	16.03		150.0	
		Z	3.79	67.24	15.90		150.0	
10449-AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.10	67.10	16.12	0.00	150.0	± 9.6 %
		Y	4.13	67.19	16.22		150.0	
		Z	4.09	67.10	16.13		150.0	
10450-AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.32	66.97	16.18	0.00	150.0	± 9.6 %
		Y	4.35	67.05	16.27		150.0	
		Z	4.31	66.97	16.19		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	2.91	66.74	13.90	0.00	150.0	± 9.6 %
		Y	2.97	67.02	14.13		150.0	
		Z	2.87	66.63	13.77		150.0	
10456-AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.05	67.79	16.62	0.00	150.0	± 9.6 %
		Y	6.07	67.84	16.68		150.0	
		Z	6.06	67.83	16.67		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.72	65.65	15.92	0.00	150.0	± 9.6 %
		Y	3.74	65.71	16.01		150.0	
		Z	3.72	65.68	15.93		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	2.56	65.08	12.43	0.00	150.0	± 9.6 %
		Y	2.62	65.37	12.69		150.0	
		Z	2.50	64.84	12.20		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	3.65	64.11	14.09	0.00	150.0	± 9.6 %
		Y	3.72	64.38	14.32		150.0	
		Z	3.61	64.01	13.94		150.0	

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10460-AAA	UMTS-FDD (WCDMA, AMR)	X	0.87	67.88	15.88	0.00	150.0	± 9.6 %
		Y	0.94	69.24	16.74		150.0	
		Z	0.87	67.84	15.86		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.73	71.22	15.78	3.29	80.0	± 9.6 %
		Y	2.48	76.95	18.34		80.0	
		Z	1.60	71.21	16.16		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.76	60.00	7.08	3.23	80.0	± 9.6 %
		Y	0.72	60.00	7.19		80.0	
		Z	0.71	60.00	7.22		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.78	60.00	6.47	3.23	80.0	± 9.6 %
		Y	0.74	60.00	6.54		80.0	
		Z	0.73	60.00	6.57		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.37	68.23	13.96	3.23	80.0	± 9.6 %
		Y	1.86	72.93	16.20		80.0	
		Z	1.28	68.36	14.37		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.76	60.00	7.02	3.23	80.0	± 9.6 %
		Y	0.72	60.00	7.12		80.0	
		Z	0.71	60.00	7.16		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.78	60.00	6.44	3.23	80.0	± 9.6 %
		Y	0.74	60.00	6.50		80.0	
		Z	0.73	60.00	6.53		80.0	
10467-AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.41	68.72	14.20	3.23	80.0	± 9.6 %
		Y	1.97	73.73	16.55		80.0	
		Z	1.32	68.86	14.63		80.0	
10468-AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.76	60.00	7.04	3.23	80.0	± 9.6 %
		Y	0.72	60.00	7.14		80.0	
		Z	0.71	60.00	7.18		80.0	
10469-AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.78	60.00	6.44	3.23	80.0	± 9.6 %
		Y	0.74	60.00	6.50		80.0	
		Z	0.73	60.00	6.54		80.0	
10470-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.41	68.72	14.19	3.23	80.0	± 9.6 %
		Y	1.97	73.75	16.55		80.0	
		Z	1.32	68.86	14.63		80.0	
10471-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.76	60.00	7.02	3.23	80.0	± 9.6 %
		Y	0.72	60.00	7.13		80.0	
		Z	0.71	60.00	7.17		80.0	
10472-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.78	60.00	6.42	3.23	80.0	± 9.6 %
		Y	0.74	60.00	6.48		80.0	
		Z	0.73	60.00	6.52		80.0	
10473-AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.41	68.68	14.18	3.23	80.0	± 9.6 %
		Y	1.96	73.71	16.53		80.0	
		Z	1.31	68.82	14.61		80.0	
10474-AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.76	60.00	7.02	3.23	80.0	± 9.6 %
		Y	0.72	60.00	7.13		80.0	
		Z	0.71	60.00	7.17		80.0	
10475-AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.78	60.00	6.42	3.23	80.0	± 9.6 %
		Y	0.74	60.00	6.48		80.0	
		Z	0.73	60.00	6.52		80.0	

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10477-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.76	60.00	7.00	3.23	80.0	± 9.6 %
		Y	0.72	60.00	7.10		80.0	
		Z	0.71	60.00	7.14		80.0	
10478-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.78	60.00	6.41	3.23	80.0	± 9.6 %
		Y	0.74	60.00	6.47		80.0	
		Z	0.73	60.00	6.51		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.51	75.91	18.12	3.23	80.0	± 9.6 %
		Y	4.65	80.42	20.02		80.0	
		Z	3.35	76.12	18.41		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.06	66.11	12.01	3.23	80.0	± 9.6 %
		Y	2.44	68.39	13.17		80.0	
		Z	2.00	66.36	12.23		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.64	63.45	10.41	3.23	80.0	± 9.6 %
		Y	1.83	64.88	11.25		80.0	
		Z	1.57	63.52	10.52		80.0	
10482-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.34	62.39	10.63	2.23	80.0	± 9.6 %
		Y	1.43	63.31	11.29		80.0	
		Z	1.27	62.21	10.58		80.0	
10483-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.46	60.79	8.98	2.23	80.0	± 9.6 %
		Y	1.54	61.54	9.56		80.0	
		Z	1.36	60.41	8.74		80.0	
10484-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.45	60.53	8.83	2.23	80.0	± 9.6 %
		Y	1.53	61.21	9.38		80.0	
		Z	1.36	60.16	8.59		80.0	
10485-AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.93	66.25	13.91	2.23	80.0	± 9.6 %
		Y	2.08	67.57	14.73		80.0	
		Z	1.84	66.09	13.95		80.0	
10486-AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.94	63.48	11.80	2.23	80.0	± 9.6 %
		Y	2.04	64.22	12.34		80.0	
		Z	1.86	63.28	11.73		80.0	
10487-AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.96	63.26	11.66	2.23	80.0	± 9.6 %
		Y	2.04	63.94	12.17		80.0	
		Z	1.87	63.04	11.57		80.0	
10488-AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.53	67.95	16.02	2.23	80.0	± 9.6 %
		Y	2.66	68.95	16.66		80.0	
		Z	2.42	67.64	16.03		80.0	
10489-AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.77	66.35	15.13	2.23	80.0	± 9.6 %
		Y	2.84	66.94	15.57		80.0	
		Z	2.67	66.13	15.12		80.0	
10490-AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.85	66.30	15.10	2.23	80.0	± 9.6 %
		Y	2.92	66.85	15.53		80.0	
		Z	2.75	66.08	15.09		80.0	
10491-AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.93	67.67	16.24	2.23	80.0	± 9.6 %
		Y	3.03	68.38	16.73		80.0	
		Z	2.81	67.35	16.23		80.0	
10492-AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.21	66.36	15.71	2.23	80.0	± 9.6 %
		Y	3.26	66.76	16.05		80.0	
		Z	3.11	66.10	15.68		80.0	

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