

Report No.	BASM-WTW-P21081224-1	
Applicant	etac Technology Corporation.	
Address	., Building A, No. 209, Sec.1, Nangang Rd.,Nangang Dist., Taip iwan, R.O.C.	ei City 11568,
Product	reless Module	
FCC ID	/LEM9190K	
Brand	tac	
Model No.	19190	
Sample Received Date	I. 20, 2021	
Lab Address	o. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City,	Taiwan
Test Location	. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan	ı City, Taiwan

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch–Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

Prepared By :

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C-MRA TAF Testing Laboratory 2021

FCC Accredited No.: TW0003

Approved By :

Roy Wu / Senior Manager

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Table of Contents

Rel	ease Control Record	3
	Description of Equipment Under Test	
2.	SAR Measurement System	6
	2.1. Definition of Specific Absorption Rate (SAR)	6
	2.2. SPEAG DASY6 System	
	2.3. SAR Measurement Procedure	7
	2.3.1. Area Scan and Zoom Scan Procedure	
	2.3.2. Power Drift Monitoring	
	2.3.3. Spatial Peak SAR Evaluation	9
	2.3.4. SAR Averaged Methods	9
3.	SAR Characterization	10
-	3.1. DSI (Device State Index) and SAR Determination	10
	3.2. SAR Design Target	
	3.3. SAR Characterization	11
4.	Equipment List	17
5.	Measurement Uncertainty	
	Information of the Testing Laboratories	



Release Control Record

Report No.	Reason for Change	Date Issued
SFBASM-WTW-P21081224-1	Initial release	Nov. 16, 2021



1. Description of Equipment Under Test

ЕИТ Туре	Wireless Module
FCC ID	QYLEM9190K
Brand Name	Getac
Model Name	EM9190
Tx Frequency Bands (Unit: MHz)	WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band V : 1712.4 ~ 1752.6 WCDMA Band V : 826.4 ~ 846.6 LTE Band 2 : 1850.7 ~ 1909.3 LTE Band 1 : 1710.7 ~ 1754.3 LTE Band 5 : 824.7 ~ 848.3 LTE Band 7 : 2502.5 ~ 2567.5 LTE Band 12 : 699.7 ~ 715.3 LTE Band 13 : 779.5 ~ 784.5 LTE Band 14 : 790.5 ~ 795.5 LTE Band 14 : 706.5 ~ 713.5 LTE Band 25 : 1850.7 ~ 1914.3 LTE Band 26 : 814.7 ~ 848.3 LTE Band 30 : 2307.5 ~ 2312.5 LTE Band 30 : 2307.5 ~ 2617.5 LTE Band 41 : 2498.5 ~ 2687.5 LTE Band 42 : 3550 ~ 3600 LTE Band 42 : 3550 ~ 3700 LTE Band 66 : 1710.7 ~ 1779.3 LTE Band 66 : 1712.5 ~ 1907.5 SG NR n5 : 826.5 ~ 846.5 SG NR n5 : 826.5 ~ 695.5 WLAN : 2412 ~ 2472, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5720, 5745 ~ 5825 Bluetooth : 2402 ~ 2480 NFC : 13.56

Note:

1. The EUT is authorized for use in specific End-product. Please refer to below for more details.

Product	Brand	Model
Tablet	Getac	K120Y (Y= 10 , Y can be 0-9, a-z, A-Z, "-", "_" or blank for marketing purpose)

2. The WLAN/BT module (Brand: Intel® Wi-Fi 6 AX201, Model: AX201NGW) was installed in the End-product.

3. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

List of End-product Accessory:

Battery 1	Brand Name	Getac
	Model Name	BP3S1P2100S-01
	Power Rating	11.1Vdc, 2040mAh, 24Wh
	Туре	Li-ion
	Brand Name	Getac
Pottony 2	Model Name	BP4S1P3450P-01
Battery 2	Power Rating	14.4Vdc, 3300mAh, 48Wh
	Туре	Li-ion



Time-Averaging for SAR

This device is enabled with Qualcomm Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 2G/3G/LTE/5G NR WWAN is in compliance with FCC requirements. This Part-0 report shows SAR characterization of WWAN radios for 2G/3G/LTE/5G NR sub-6. The characterization is achieved by determining Plimit for 2G/3G/LTE/5G NR sub-6 that corresponds to the exposure design targets after accounting for all device design related uncertainties. The SAR characterization is denoted as SAR Char in this report.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part-1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time-varying) transmission scenario for WWAN technologies are reported in Part-2 report.

Nomenclature for Part-0 Report

Technology	Term	Description
	Plimit	Power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related
		uncertainties
2G/3G/LTE/5G NR	P _{max}	Maximum tune up output power
	SAR_design_target	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	SAR Char	Table containing Plimit for all technologies and bands



2. SAR Measurement System

2.1. Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be related to the electrical field in the tissue by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

2.2. SPEAG DASY6 System

DASY6 system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY6 software defined. The DASY6 software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion form the optical into digital electric signal of the DAE and transfers data to the PC.



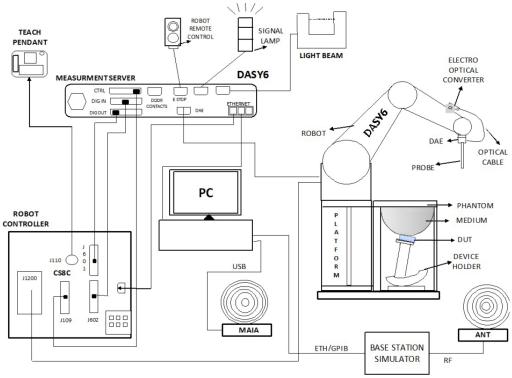


Fig-2.1 SPEAG DASY6 System Setup

2.3. SAR Measurement Procedure

According to the SAR test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

The SAR measurement procedures for each of test conditions are as follows:

- (a) Make EUT to transmit maximum output power
- (b) Measure conducted output power through RF cable
- (c) Place the EUT in the specific position of phantom
- (d) Perform SAR testing steps on the DASY system
- (e) Record the SAR value

2.3.1. Area Scan and Zoom Scan Procedure

First area scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an area scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, zoom scan is required. The zoom scan is performed around the highest E-field value to determine the averaged SAR-distribution.

Measure the local SAR at a test point at 1.4 mm of the inner surface of the phantom recommended by SEPAG. The area scan (two-dimensional SAR distribution) is performed cover at least an area larger than the projection of the EUT or antenna. The measurement resolution and spatial resolution for interpolation shall be chosen to allow identification of the local peak locations to within one-half of the linear dimension of the corresponding side of the zoom scan volume. Following table provides the measurement parameters required for the area scan.

Parameter	$f \leq 3 \mathrm{GHz}$	$3 \text{ GHz} < f \leq 6 \text{ GHz}$
Maximum distance from closest measurement point to phantom surface	5 ± 1	δ ln(2)/2 ±0.5
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° $\pm 1^{\circ}$	20° ±1 $^{\circ}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	≦2 GHz: ≦15 mm 2 – 3 GHz: ≦12 mm	$3-4 \text{ GHz:} \leq 12 \text{ mm}$ $4-6 \text{ GHz:} \leq 10 \text{ mm}$

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks. Additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g. 1 W/kg for 1.6 W/kg, 1 g limit; or 1.26 W/kg for 2 W/kg, 10 g limit).

The zoom scan (three-dimensional SAR distribution) is performed at the local maxima locations identified in previous area scan procedure. The zoom scan volume must be larger than the required minimum dimensions. When graded grids are used, which only applies in the direction normal to the phantom surface, the initial grid separation closest to the phantom surface and subsequent graded grid increment ratios must satisfy the required protocols. The 1-g SAR averaging volume must be fully contained within the zoom scan measurement volume boundaries; otherwise, the measurement must be repeated by shifting or expanding the zoom scan volume. The similar requirements also apply to 10-g SAR measurements. Following table provides the measurement parameters required for the zoom scan.

Para	ameter	$f \leq 3 \text{ GHz}$	$3 \text{ GHz} < f \leq 6 \text{ GHz}$
Maximum zoom scan spatial reso	plution: Δx_{Zoom} , Δy_{Zoom}	≦2 GHz: ≦8 mm 2 – 3 GHz: ≦5 mm	3 – 4 GHz: ≦5 mm 4 – 6 GHz: ≦4 mm
Maximum zoom scan spatial resolution, normal to phantom surface	<i>uniform grid:</i> Δz _{zoom} (n)	≦5 mm	3 – 4 GHz: ≦4 mm 4 – 5 GHz: ≦3 mm 5 – 6 GHz: ≦2 mm
	graded grids: Δz _{zoom} (1)	≦4 mm	3 – 4 GHz: ≦3.0 mm 4 – 5 GHz: ≦2.5 mm 5 – 6 GHz: ≦2.0 mm
	$\Delta z_{\text{Zoom}}(n>1)$	≦1.5·Δz _{zc}	_{oom} (n-1) mm
Minimum zoom scan volume (x, y, z)		≥30 mm	3 – 4 GHz: ≥28 mm 4 – 5 GHz: ≥25 mm 5 – 6 GHz: ≥22 mm



2.3.2. 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 drift more than 5%, the SAR will be retested.

2.3.3. Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

2.3.4. SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.



3. SAR Characterization

3.1. Smart Transmit feature for RF Exposure

The FCC RF exposure limit is defined based on time- averaged RF exposure. This product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window, for SAR(transmit frequency < 6GHz). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

3.2. SAR Design Target

The SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer. The total uncertainties for this device is 1.0 dB. To account for total uncertainty, SAR_design_target is determined as below.

 $SAR_design_target < SAR_{regulatory\,limit} \times 10^{\frac{-Total\,Uncertainty}{10}}$

For 1g-SAR, the SAR_{regulatory limit} is 1.2 W/kg, and the SAR_design_target is 0.95 W/kg.

3.3. SAR Characterization

The P_{limit} is calculated by linearly scaling with the measured SAR at the P_{max} to correspond to the SAR_design_target. The P_{limit} determination for each exposure scenario corresponding to SAR_design_target are show next Section.



3.4. SAR Test Result For Plimit Calculations

Band	Mode	Test	Separation Distance	Channel	Crest	Max. Tune-up Power	Measured Conducted Power	Measured SAR-1g	SAR Design	Plimit	Minimum	
			Position	(mm)		Factor	(dBm)	(dBm)	(W/kg)	Target		
WCDMA II	RMC12.2K	Rear Face	0	9262	1.00	24.50	23.31	1.34	0.95	21.8		
WCDMA II	RMC12.2K	Left Side	0	9262	1.00	24.50	23.11	< 0.001	0.95	52.9		
WCDMA II	RMC12.2K	Right Side	0	9262	1.00	24.50	23.11	0.061	0.95	35		
WCDMA II	RMC12.2K	Top Side	0	9262	1.00	24.50	23.11	1.71	0.95	20.6	19.1	
WCDMA II	RMC12.2K	Bottom Side	0	9262	1.00	24.50	23.11	< 0.001	0.95	52.9	-	
WCDMA II	RMC12.2K	Top Side	0	9400	1.00	24.50	22.92	1.66	0.95	20.5	4	
WCDMA II	RMC12.2K	Top Side	0	9538	1.00	24.50	22.85	2.26	0.95	19.1		
WCDMA IV	RMC12.2K	Rear Face	0	1312	1.00	24.50	23.72	0.273	0.95	29.1		
WCDMA IV	RMC12.2K	Left Side	0	1312	1.00	24.50	23.72	< 0.001	0.95	53.5	1	
WCDMA IV	RMC12.2K	Right Side	0	1312	1.00	24.50	23.72	0.093	0.95	33.8	1	
WCDMA IV	RMC12.2K	Top Side	0	1312	1.00	24.50	23.72	1.96	0.95	20.6	20.6	
WCDMA IV	RMC12.2K	Top Side	0	1413	1.00	24.50	23.47	1.45	0.95	21.6]	
WCDMA IV	RMC12.2K	Top Side	0	1513	1.00	24.50	23.41	0.982	0.95	23.3		
WCDMA IV	RMC12.2K	Top Side	0	1312	1.00	24.50	23.72	1.59	0.95	21.5		
WCDMAV	RMC12.2K	Rear Face	0	4132	1.00	24.50	24.25	0.824	0.95	24.9		
WCDMA V	RMC12.2K	Left Side	0	4132	1.00	24.50	24.25	< 0.024	0.95	54	-	
WCDMAV	RMC12.2K	Right Side	0	4132	1.00	24.50	24.25	0.275	0.95	29.6	-	
WCDMAV	RMC12.2K	Top Side	0	4132	1.00	24.50	24.25	1.05	0.95	23.8	1	
WCDMA V	RMC12.2K	Bottom Side	0	4132	1.00	24.50	24.25	0.067	0.95	35.8	23.8	
WCDMA V	RMC12.2K	Top Side	0	4182	1.00	24.50	24.04	0.86	0.95	24.5	1	
WCDMA V	RMC12.2K	Top Side	0	4233	1.00	24.50	23.71	0.907	0.95	23.9	1	
WCDMA V	RMC12.2K	Top Side	0	4132	1.00	24.50	24.25	0.964	0.95	24.2	1	
LTE 2	QPSK20M	Rear Face	0	18900	1.00	24.00	22.91	1.09	0.95	22.3		
LTE 2	QPSK20M	Left Side	0	18900	1.00	24.00	22.91	< 0.001	0.95	52.7		
LTE 2	QPSK20M	Right Side	0	18900	1.00	24.00	22.91	0.052	0.95	35.5		
LTE 2	QPSK20M	Top Side	0	18900	1.00	24.00	22.91	1.58	0.95	20.7		
LTE 2	QPSK20M	Bottom Side	0	18900	1.00	24.00	22.91	< 0.001	0.95	52.7		
LTE 2	QPSK20M	Rear Face	0	18900	1.00	23.00	22.02	0.944	0.95	22		
LTE 2	QPSK20M	Left Side	0	18900	1.00	23.00	22.02	< 0.001	0.95	51.8	20.2	
LTE 2 LTE 2	QPSK20M	Right Side	0	18900 18900	1.00	23.00 23.00	22.02	0.059	0.95	34.1 20.7	-	
LTE 2	QPSK20M QPSK20M	Top Side Bottom Side	0	18900	1.00	23.00	22.02	< 0.001	0.95	51.8	-	
LTE 2	QPSK20M	Top Side	0	18300	1.00	24.00	22.86	1.6	0.95	20.6	-	
LTE 2	QPSK20M	Top Side	0	19100	1.00	24.00	22.85	1.73	0.95	20.0	-	
LTE 2	QPSK20M	Top Side	0	18900	1.00	24.00	22.91	1.57	0.95	20.7	-	
			-									
LTE 4	QPSK20M	Rear Face	0	20050	1.00	24.00	23.11	0.342	0.95	27.5		
LTE 4	QPSK20M	Left Side	0	20050	1.00	24.00	23.11	< 0.001	0.95	52.9	1	
LTE 4	QPSK20M	Right Side	0	20050	1.00	24.00	23.11	0.1	0.95	32.9	1	
LTE 4	QPSK20M	Top Side	0	20050	1.00	24.00	23.11	1.48	0.95	21.2		
LTE 4	QPSK20M	Bottom Side	0	20050	1.00	24.00	23.11	< 0.001	0.95	52.9		
LTE 4	QPSK20M	Rear Face	0	20050	1.00	23.00	22.17	0.297	0.95	27.2		
LTE 4	QPSK20M	Left Side	0	20050	1.00	23.00	22.17	0.083	0.95	32.8	20.6	
LTE 4	QPSK20M	Right Side	0	20050	1.00	23.00	22.17	< 0.001	0.95	51.9	-	
LTE 4	QPSK20M	Top Side	0	20050	1.00	23.00	22.17	1.35	0.95	20.6	4	
LTE 4	QPSK20M	Bottom Side	0	20050	1.00	23.00	22.17	< 0.001	0.95	51.9	-	
LTE 4	QPSK20M QPSK20M	Top Side Top Side	0	20175	1.00	24.00 24.00	22.98 22.94	1.6	0.95	20.7	-	
LTE 4	QPSK20M QPSK20M	Top Side	0	20300	1.00	24.00	22.94	1.55	0.95	20.8	-	
	QF 31/2 UIVI	Top side	V	20000	1.00	24.00	23.11	1.30	0.00	20.5		
LTE 5	QPSK10M	Rear Face	0	20450	1.00	24.00	23.03	0.689	0.95	24.4		
LTE 5	QPSK10M	Left Side	0	20450	1.00	24.00	23.03	< 0.001	0.95	52.8	1	
LTE 5	QPSK10M	Right Side	0	20450	1.00	24.00	23.03	0.275	0.95	28.4	1	
LTE 5	QPSK10M	Top Side	0	20450	1.00	24.00	23.03	0.953	0.95	23		
LTE 5	QPSK10M	Bottom Side	0	20450	1.00	24.00	23.03	0.072	0.95	34.2		
LTE 5	QPSK10M	Rear Face	0	20450	1.00	23.00	22.03	0.552	0.95	24.4]	
LTE 5	QPSK10M	Left Side	0	20450	1.00	23.00	22.03	< 0.001	0.95	51.8	23	
LTE 5	QPSK10M	Right Side	0	20450	1.00	23.00	22.03	0.193	0.95	29	4	
LTE 5	QPSK10M	Top Side	0	20450	1.00	23.00	22.03	0.735	0.95	23.1	4	
LTE 5	QPSK10M	Bottom Side	0	20450	1.00	23.00	22.03	0.055	0.95	34.4	4	
LTE 5	QPSK10M	Top Side	0	20525	1.00	24.00	22.97	0.77	0.95	23.9	4	
LTE 5	QPSK10M	Top Side	0	20600	1.00	24.00	22.62	0.742	0.95	23.7	-	
LTE 5	QPSK10M	Top Side	0	20450	1.00	24.00	23.03	0.684	0.95	24.5	1	



Bind Mode Position Unitaries Channel Parte Sol Agg Paint Marman 1177 OPSCOM Feer field 0 2110 100 2400 2337 0.001 0.085 933 1177 OPSCOM Right Sole 0 2110 100 2400 2337 0.081 0.085 933 1177 OPSCOM Right Sole 0 21100 100 2400 2357 2.085 0.081 0.211 1177 OPSCOM Rear Face 0 21100 100 2400 2.222 0.071 0.985 632 1177 OPSCOM Rear Face 0 21100 100 2400 2214 108 108 103 1177 OPSCOM Top Side 0 2100 100 2400 2311 100 400 2311 100 400 2311 100 400 2311 100 100 100 100 100			Test	Separation		Creat	Мах.	Measured	Measured	SAR		
ITT OPSCOM Rear face 0 2110 100 2400 2157 115 095 227 ITT OPSCOM Right Ede 0 21100 100 2400 2157 0.001 0.95 231 ITT OPSCOM Topperde 0 21100 100 2400 2137 0.001 0.95 231 ITT OPSCOM Rear Face 0 21100 100 2300 2222 0.955 0.95 281 ITT OPSCOM Rear Face 0 21100 100 2300 2222 0.955 0.95 787 ITT OPSCOM Top Side 0 21100 100 2400 2131 0.95 787 ITT OPSCOM Top Side 0 21100 100 2400 2131 0.07 0.085 724 ITT OPSCOM Top Side 0 2310 100 2400 2311 100 0.001 </th <th>Band</th> <th>Mode</th> <th></th> <th></th> <th>Channel</th> <th>Crest Factor</th> <th></th> <th></th> <th></th> <th>-</th> <th>Plimit</th> <th>Minimum</th>	Band	Mode			Channel	Crest Factor				-	Plimit	Minimum
ITT? OPSCOM Left Side 0 21100 1.00 2400 2377 -0.001 0.96 53.3 ITT7 OPSCOM Top Side 0 21100 1.00 2400 2377 2.32 0.985 287 ITT7 OPSCOM Top Side 0 21100 1.00 2400 2377 2.30 0.985 287 ITT7 OPSCOM Refered 0 21100 1.00 2400 2377 2.30 0.86 233 ITT7 OPSCOM Refered 0 21100 1.00 2300 2222 1.001 0.86 1.93 ITT7 OPSCOM Top Side 0 21100 1.00 2400 2311 0.010 0.86 1.93 ITT7 OPSCOM Top Side 0 23101 0.01 2400 2311 0.010 0.86 1.93 ITT7 OPSCOM Referee 0 23101 1.00 2400 2311 <th>LTE 7</th> <th>OPSK20M</th> <th>Rear Face</th> <th></th> <th>21100</th> <th>1.00</th> <th></th> <th></th> <th></th> <th></th> <th>22.7</th> <th></th>	LTE 7	OPSK20M	Rear Face		21100	1.00					22.7	
INT 7 OPSIGN Regin Side 0 21100 100 74.00 237 0.52 0.56 197 INT 7 OPSIGN Teg Side 0 21100 100 74.00 237 0.30 935 633 INT 7 OPSIGN Restrace 0 21100 100 74.00 2350 222 0.675 0.68 621 INT 7 OPSIGN Let Side 0 21100 100 74.00 7350 722 0.675 0.68 621 INT 7 OPSIGN Let Side 0 21100 100 74.00 735 0.68 731 INT 7 OPSIGN Teg Side 0 21100 100 2400 231 0.18 0.68 731 INT 7 OPSIGN Teg Side 0 21100 100 2400 2311 0.17 0.66 731 INT 7 OPSIGN Teg Side 0 23101 100 2400												-
LIF 7 OPSICIM Top Side 0 21100 1.00 24.00 25.77 -2.00 0.05 0.17 1.17 LIF 7 OPSICOM Betem Side 0 21100 1.00 2300 22.22 -0.051 0.055 0.211 1.00 2300 22.22 -0.051 0.055 0.211 1.00 2300 22.22 -0.051 0.055<												-
LIT 7 OPSICIM Beston Side 0 21100 1.00 24.00 23.7 -0.00 0.98 53.3 LIT 7 OPSICOM Lef Side 0 21100 1.00 23.00 22.2 0.975 0.95 22.1 LIT 7 OPSICOM Lef Side 0 21100 1.00 23.00 22.2 0.572 0.955 22.1 LIT 7 OPSICOM Tep Side 0 21.00 1.00 23.00 22.22 0.572 0.955 0.95 0.97 LIT 7 OPSICOM Tep Side 0 22.05 1.00 24.00 23.11 0.96 1.07 LIT 7 OPSICOM Top Side 0 23.10 1.00 24.00 23.11 0.07 0.05 0.07 LIT 12 OPSILOM Reser Sec 0 23.10 1.00 24.00 23.11 0.07 0.05 23.0 LIT 12 OPSILOM Reser Sec 0 23.10 1.00			~					-				-
IIT 7 OPSIZ0M Res Face 0 2100 100 2200 2222 40075 095 521 IIT 7 OPSIZ0M Right Side 0 21100 100 2200 2222 40075 095 52 IIT 7 OPSIZ0M Right Side 0 21100 100 2300 2222 1287 095 62 IIT 7 OPSIZ0M Rop Side 0 21100 100 2300 2221 1287 0055 62 0 2310 100 2400 2517 177 095 095 223 100 2400 2311 4001 095 223 100 100 2400 2311 4001 095 223 116 114												1
ITT // OPSICIM Leff Side 0 2100 1.00 2202 4.0011 6.95 7.95 ITT /// OPSICIM Top Side 0 21100 1.00 2200 2222 4.0011 6.95 7.95 ITT /// OPSICIM Bettorn Side 0 2100 1.00 2200 2222 4.0011 6.95 7.95 ITT /// OPSICIM Top Side 0 22100 1.00 2400 2314 1.00												-
LIT7 OPSXDM Reght Side 0 2100 1.00 2200 222 0.85 183 LIT7 OPSXDM Top Side 0 21100 1.00 2200 222 1.87 0.985 183 LIT7 OPSXDM Top Side 0 2100 1.00 2200 2221 1.01 1.08 2001 0.985 62 LIT7 OPSXDM Top Side 0 2110 1.00 2400 2311 0.985 281 LITF1 OPSKIDM Res Face 0 2313 0.00 2400 2311 0.010 985 281 LITF12 OPSKIDM Res Face 0 23130 1.00 2400 2311 0.0114 0.985 281 LITF12 OPSKIDM Res Face 0 2310 1.00 2400 2311 1.017 0.985 281 LITF12 OPSKIDM Res Face 0 2310 1.00 2400 2300<				0								18.7
IT7 OPSX20M Top Side 0 2100 100 2800 2222 1007 085 19.3 IT7 OPSX20M Top Side 0 2080 100 2400 2344 218 0.95 10.97 IT7 OPSX20M Top Side 0 21100 100 2400 2341 218 0.95 10.97 IT7 OPSX20M Top Side 0 21100 100 2400 2311 0.495 2431 IT712 OPSK10M Ref Face 0 2310 100 2400 2311 0.491 985 22.2 IT712 OPSK10M Ref Face 0 2310 100 2400 2311 0.011 895 22.2 IT712 OPSK10M Top Side 0 2310 100 2400 2311 40.011 89.2 2.1 IT712 OPSK10M Top Side 0 2310 100 2400 22.10 100	LTE 7		Right Side	0	21100	1.00	23.00	22.22	0.252	0.95	28	1
ITF7 OPRIZEDM Top Side 0 20850 10.00 24.00 23.11 0.085 10.7 ITF7 QPKIZDM Top Side 0 21100 10.00 24.00 23.11 0.085 10.7 ITF2 QPKIZDM Top Side 0 21100 10.00 24.00 23.11 0.057 25.1 ITF12 QPKXIDM Reaf Face 0 231.01 10.07 24.00 23.11 0.0479 0.955 26.1 ITF12 QPKXIDM Reaf Side 0 231.01 10.07 20.01 23.11 10.01 0.955 26.1 ITF12 QPKXIDM Reaf Side 0 22.310 10.07 23.00 22.00 0.388 0.95 22.6 ITF12 QPKXIDM Top Side 0 223.01 10.07 23.00 20.00 20.00 0.95 22.6 ITF12 QPKXIDM Top Side 0 23.200 10.07 20.00 20.00 <t< td=""><td>LTE 7</td><td>QPSK20M</td><td></td><td>0</td><td>21100</td><td>1.00</td><td>23.00</td><td>22.22</td><td>1.87</td><td>0.95</td><td>19.3</td><td>1</td></t<>	LTE 7	QPSK20M		0	21100	1.00	23.00	22.22	1.87	0.95	19.3	1
ITF7 OPSIG0M Top Side 0 21350 10.0 24.00 2231 0.05 10.7 ITF7 OPSIG0M Top Side 0 21.00 10.0 24.00 23.11 0.479 0.05 28.1 ITF12 OPSIL0M Rear Face 0 23.10 10.0 24.00 23.11 0.479 0.055 25.9 ITF12 OPSIL0M Rear Face 0 23.10 10.07 0.055 25.9 ITF12 OPSIL0M Rear Face 0 23.10 10.07 0.055 25.2 ITF12 OPSIL0M Rear Face 0 23.10 10.07 20.00 23.00 10.05 30.05 22.0 10.00 30.05 22.0 10.00 30.05 22.0 10.00 30.05 22.0 10.00 30.05 22.0 10.00 30.05 22.0 10.0 30.05 22.0 10.0 23.00 10.05 30.05 22.0 10.0 10.05 23.0	LTE 7	QPSK20M		0	21100	1.00	23.00	22.22	< 0.001	0.95	52	1
IIT7 OPSX20M Top Side 0 21350 10.0 24.00 2231 0.05 187 IIT7 OPSX20M Top Side 0 2110 10.0 24.00 2331 0.07 0.05 28.1 IIT612 OPSX10M Rear Face 0 2310 10.0 24.00 2311 0.41 0.05 25.1 IIT612 OPSX10M Rear Face 0 23130 10.0 24.00 2311 0.011 0.05 22.6 IIT612 OPSX10M Rear Face 0 23130 10.0 24.00 2311 1.017 0.05 22.6 IIT612 OPSX10M Rear Face 0 23130 10.0 23.00 22.00 0.001 0.05 52.7 IIT612 OPSX10M Rear Face 0 23309 10.0 23.00 22.0 4.0011 0.05 52.7 IIT612 OPSX10M Top Side 0 23208 10.0 24.00	LTE 7		Top Side	0	20850	1.00	24.00	23.34	2.18	0.95	19.7	1
ITE 12 OPKLOM Rer Face O 213 100 2400 2311 0.47 0.08 2211 LTE 12 OPKSLOM Left Side 0 2313 100 2400 2311 0.47 0.085 529 LTE 12 OPKSLOM Regresce 0 2313 100 2400 2311 0.041 0.055 526 LTE 12 OPKSLOM Redrom Side 0 23130 100 2400 2311 1007 0.055 526 LTE 12 OPKSLOM Redrom Side 0 23130 100 2300 22.20 0.031 0.055 52 LTE 12 OPKSLOM Redrom Side 0 23130 100 2300 22.20 0.031 0.055 52 1 LTE 12 OPKSLOM Top Side 0 23130 100 2400 2331 100 2400 2331 100 2400 2331 100 2400 2234 101	LTE 7	QPSK20M		0	21350	1.00	24.00	22.91	2.51	0.95	18.7	
LTE 12 QPSKLOM Rear Face Dot 2130 1.00 24.00 23.11 0.470 0.95 22.1 LTE 12 QPSKLOM Left Side 0 23.13 1.00 24.00 23.11 0.470 0.95 52.91 LTE 12 QPSKLOM Regin Side 0 23.13 1.00 24.00 23.11 0.005 52.91 LTE 12 QPSKLOM Rear Face 0 22.13 1.00 24.00 23.11 1.007 0.95 52.61 LTE 12 QPSKLOM Rear Face 0 22.13 1.00 23.00 22.20 0.038 0.95 23.61 LTE 12 QPSKLOM Rear Face 0 23.10 1.00 23.00 1.00 23.00 0.05 0.95 3.3 1.0 1.00 23.00 0.05 0.05 3.0 0.05 5.4 1.0 1.00 1.00 23.00 0.05 23.1 1.0 1.00 1.00 1.00 1.00	LTE 7			0	21100	1.00	24.00	23.57	1.78	0.95	20.8	1
ITT 12 OPFKLOM Left Side 0 2310 1.00 24.00 2311 <0.001 0.95 52.9 ITT 12 OPFKLOM Flight Side 0 23130 1.00 24.00 2311 0.114 0.95 23.0 ITT 12 OPFKLOM Beatrom Side 0 23130 1.00 24.00 2311 0.010 0.95 52.9 ITT 12 OPFKLOM Rear face 0 23130 1.00 23.00 22.20 0.388 0.95 52.1 ITT 12 OPFKLOM Reafrice 0 23130 1.00 23.00 22.20 0.388 0.95 22.6 ITT 12 OPFKLOM Fop Side 0 23100 1.00 23.00 22.00 0.010 0.95 52.4 ITT 12 OPFKLOM Top Side 0 2310 1.00 24.00 2311 0.80 23.4 1.011 1.00 2.20 0.010 0.55 2.23 1.111 0.95 <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				_								
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ITT 12 OPFKLOM Fight Side 0 22130 1.00 24.00 23.11 0.141 0.95 31.4 ITT 12 OPFKLOM Top Side 0 23130 1.00 24.00 23.11 0.107 0.95 52.6 ITT 12 OPFKLOM Rear face 0 23130 1.00 23.00 22.20 0.988 0.95 52.6 ITT 12 OPFKLOM Left Side 0 23130 1.00 23.00 22.20 0.011 0.95 52.5 ITT 12 OPFKLOM Top Side 0 23130 1.00 23.00 22.20 0.011 9.95 23.1 ITT 12 OPFKLOM Top Side 0 22300 1.00 24.00 23.07 0.95 23.1 ITT 12 OPFKLOM Rear face 0 223.00 1.00 24.00 23.07 0.09 95 23.1 ITT 13 OPFKLOM Rear face 0 223.00 1.00 24.00				0								1
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UTE 12 OPSKLOM Best Face 0 2130 100 2400 2311 -0001 0.95 52.9 UTE 12 OPSKLOM Left Side 0 2330 100 2300 220 -0.001 0.95 52 UTE 12 OPSKLOM Right Side 0 2330 100 2300 220 0.001 0.95 52 UTE 12 OPSKLOM Top Side 0 2310 100 2300 220 0.001 0.95 52 UTE 12 OPSKLOM Top Side 0 2310 100 2400 2305 0.088 0.95 234 UTE 12 OPSKLOM Top Side 0 2230 100 2400 2282 0.001 0.95 224 UTE 13 OPSKLOM Rest Face 0 22320 100 2400 2282 0.001 0.95 231 UTE 13 OPSKLOM Rest Face 0 22320 100 2400 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>												-
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LTE 12 OPSKLOM Right Side 0 213 1.00 22.00 0.116 0.05 213 LTE 12 OPSKLOM Botton Side 0 23130 1.00 23.00 22.00 0.016 0.055 22.0 LTE 12 OPSKLOM Top Side 0 23.00 1.00 23.00 0.050 0.855 0.055 23.14 LTE 12 OPSKLOM Top Side 0 23.00 1.00 24.00 23.01 0.095 23.14 LTE 12 OPSKLOM Top Side 0 232.00 1.00 24.00 23.11 1.0892 0.095 23.14 LTE 13 OPSKLOM Left Side 0 232.20 1.00 24.00 22.22 0.001 0.95 27.4 LTE 13 OPSKLOM Left Side 0 232.20 1.00 24.00 22.22 0.001 0.95 77.7 LTE 13 OPSKLOM Rept Side 0 2320 1.00 24.00												22.6
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LITE 13 OPSKLOM Left Side 0 23230 1.00 24.00 72.82 -0.001 0.95 52.6 LITE 13 OPSKLOM Right Side 0 23230 1.00 24.00 22.82 0.902 0.95 2.3 LITE 13 OPSKLOM Bottom Side 0 23230 1.00 24.00 22.82 0.965 2.3 LITE 13 OPSKLOM Rear Face 0 23230 1.00 24.00 22.82 0.064 0.95 23.6 LITE 13 OPSKLOM Left Side 0 23230 1.00 23.00 21.91 0.0514 0.95 23.7 LITE 13 OPSKLOM Top Side 0 23230 1.00 23.00 21.91 0.745 0.95 23.8 LITE 13 OPSKLOM Top Side 0 23330 1.00 24.00 22.73 0.745 0.95 23.8 LITE 14 OPSKLOM Top Side 0 23330 1.00	LTE 13	OPSK10M	Rear Face	0	23230	1.00	24.00	22.82	0.745	0.95	23.9	
UTE 13 QPSK10M Right Side 0 23230 1.00 24.00 228.22 0.329 0.95 27.4 LTE 13 QPSK10M Top Side 0 23230 1.00 24.00 228.2 0.995 23 LTE 13 QPSK10M Bottom Side 0 23230 1.00 24.00 228.2 0.064 0.95 23.8 LTE 13 QPSK10M Rear Face 0 23230 1.00 23.00 21.91 0.0614 0.95 23.7 LTE 13 QPSK10M Reight Side 0 23230 1.00 23.00 21.91 0.75 0.95 23.7 LTE 13 QPSK10M Top Side 0 23230 1.00 23.00 21.91 0.75 0.95 23.1 LTE 14 QPSK10M Rear Face 0 23330 1.00 24.00 22.73 0.745 0.95 23.2 LTE 14 QPSK10M Regr Face 0 23330 1.00												-
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LTE 17 QPSK10M Top Side 0 23800 1.00 24.00 22.88 1.08 0.95 22.3							-					┥ ┃
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	LTE 17	QPSK10M QPSK10M	Top Side	0	23800	1.00	24.00	22.88	1.08	0.95	22.3	



Band	Mode	Test	Separation Distance	Channel	Crest	Max. Tune-up	Measured Conducted	Measured SAR-1g	SAR Design	Plimit	Minimum	
	mode	Po	Position	(mm)		Factor	Power (dBm)	Power (dBm)	(W/kg)	Target		
LTE 25	QPSK20M	Rear Face	0	26140	1.00	24.00	22.98	1.32	0.95	21.6		
LTE 25	QPSK20M	Left Side	0	26140	1.00	24.00	22.98	< 0.001	0.95	52.8]	
LTE 25	QPSK20M	Right Side	0	26140	1.00	24.00	22.98	0.068	0.95	34.4]	
LTE 25	QPSK20M	Top Side	0	26140	1.00	24.00	22.98	1.72	0.95	20.4		
LTE 25	QPSK20M	Bottom Side	0	26140	1.00	24.00	22.98	< 0.001	0.95	52.8		
LTE 25	QPSK20M	Rear Face	0	26140	1.00	23.00	22.03	1.01	0.95	21.8		
LTE 25	QPSK20M	Left Side	0	26140	1.00	23.00	22.03	< 0.001	0.95	51.8	20.1	
LTE 25	QPSK20M	Right Side	0	26140	1.00	23.00	22.03	0.049	0.95	34.9	4	
LTE 25	QPSK20M	Top Side Bottom Side	0	26140 26140	1.00	23.00 23.00	22.03	1.36 <0.001	0.95	20.5	4	
LTE 25	QPSK20M	Top Side	0	26140	1.00	23.00	22.05	1.7	0.95	51.8	4	
LTE 25 LTE 25	QPSK20M	Top Side	0	26565	1.00	24.00	22.90	1.7	0.95	20.4	4	
LTE 25	QPSK20M QPSK20M	Top Side	0	26140	1.00	24.00	22.98	1.68	0.95	20.1 20.5	-	
212.25	Q1 SIZ20W	10p olde		20210	2.00	21.00	22.50	2.00	0.00	20.0		
LTE 26	QPSK15M	Rear Face	0	26765	1.00	24.00	23.16	0.793	0.95	23.9		
LTE 26	QPSK15M	Left Side	0	26765	1.00	24.00	23.16	< 0.001	0.95	52.9	1	
LTE 26	QPSK15M	Right Side	0	26765	1.00	24.00	23.16	0.385	0.95	27.1	1	
LTE 26	QPSK15M	Top Side	0	26765	1.00	24.00	23.16	0.966	0.95	23.1	1	
LTE 26	QPSK15M	Bottom Side	0	26765	1.00	24.00	23.16	< 0.001	0.95	52.9	1	
LTE 26	QPSK15M	Rear Face	0	26765	1.00	23.00	22.17	0.551	0.95	24.5	1	
LTE 26	QPSK15M	Left Side	0	26765	1.00	23.00	22.17	< 0.001	0.95	51.9	23.1	
LTE 26	QPSK15M	Right Side	0	26765	1.00	23.00	22.17	0.209	0.95	28.7	1	
LTE 26	QPSK15M	Top Side	0	26765	1.00	23.00	22.17	0.77	0.95	23.1	1	
LTE 26	QPSK15M	Bottom Side	0	26765	1.00	23.00	22.17	< 0.001	0.95	51.9	1	
LTE 26	QPSK15M	Top Side	0	26865	1.00	24.00	23.10	0.91	0.95	23.3]	
LTE 26	QPSK15M	Top Side	0	26965	1.00	24.00	23.00	0.895	0.95	23.3]	
LTE 26	QPSK15M	Top Side	0	26765	1.00	24.00	23.16	0.951	0.95	23.2		
LTE 30	QPSK10M	Rear Face	0	27710	1.00	24.00	22.89	0.228	0.95	29.1		
LTE 30	QPSK10M	Left Side	0	27710	1.00	24.00	22.89	<0.001	0.95	52.7		
LTE 30	QPSK10M	Right Side	0	27710	1.00	24.00	22.89	0.213	0.95	29.4		
LTE 30	QPSK10M	Top Side	0	27710	1.00	24.00	22.89	2.14	0.95	19.4	1	
LTE 30	QPSK10M	Bottom Side	0	27710	1.00	24.00	22.89	< 0.001	0.95	52.7	1	
LTE 30	QPSK10M	Rear Face	0	27710	1.00	23.00	22.04	0.189	0.95	29.1	19.4	
LTE 30	QPSK10M	Left Side	0	27710	1.00	23.00	22.04	< 0.001	0.95	51.8	1	
LTE 30	QPSK10M	Right Side	0	27710	1.00	23.00	22.04	0.184	0.95	29.2	1	
LTE 30	QPSK10M	Top Side	0	27710	1.00	23.00	22.04	1.14	0.95	21.2	1	
LTE 30	QPSK10M	Bottom Side	0	27710	1.00	23.00	22.04	< 0.001	0.95	51.8	1	
LTE 30	QPSK10M	Top Side	0	27710	1.00	24.00	22.89	1.24	0.95	21.7	1	
LTE 38	QPSK20M	Rear Face	0	37850	1.58	24.00	23.54	1.33	0.95	20.1		
LTE 38	QPSK20M	Left Side	0	37850	1.58	24.00	23.54	< 0.001	0.95	51.3	1	
LTE 38	QPSK20M	Right Side	0	37850	1.58	24.00	23.54	0.11	0.95	30.9	1	
LTE 38	QPSK20M	Top Side	0	37850	1.58	24.00	23.54	2.04	0.95	18.2	1	
LTE 38	QPSK20M	Bottom Side	0	37850	1.58	24.00	23.54	< 0.001	0.95	51.3	1	
LTE 38	QPSK20M	Rear Face	0	37850	1.58	23.00	22.65	1.13	0.95	19.9	1	
LTE 38	OPSK20M	Left Side	0	37850	1.58	23.00	22.65	< 0.001	0.95	50.4	18	
LTE 38	QPSK20M	Right Side	0	37850	1.58	23.00	22.65	0.079	0.95	31.5	1	
LTE 38	OPSK20M	Top Side	- ŭ	37850	1.58	23.00	22.65	1.77	0.95	18	1	
LTE 38	OPSK20M	Bottom Side	- ŭ	37850	1.58	23.00	22.65	<0.001	0.95	50.4	1	
LTE 38	QPSK20M	Top Side	0	38000	1.58	24.00	23.51	2.06	0.95	18.2	1	
LTE 38	QPSK20M	Top Side	- 0	38150	1.58	24.00	23.49	2.03	0.95	18.2	1	
LTE 38	QPSK20M	Top Side	- 0	37850	1.58	24.00	23.54	2.03	0.95	18.3	1	
2.2.30		. op olde	Ť	0.000				2.02	0.00			
LTE 41	QPSK20M	Rear Face	0	41055	1.58	24.00	22.96	1.38	0.95	19.4		
LTE 41	QPSK20M	Left Side	ő	41055	1.58	24.00	22.96	<0.001	0.95	50.8	1	
LTE 41	QPSK20M	Right Side	ŏ	41055	1.58	24.00	22.96	0.043	0.95	34.4	1	
LTE 41	QPSK20M	Top Side	0	41055	1.58	24.00	22.96	2.14	0.95	17.4	1	
LTE 41	QPSK20M	Bottom Side	0	41055	1.58	24.00	22.96	<0.001	0.95	50.8	1	
LTE 41	QPSK20M	Rear Face	0	41055	1.58	23.00	22.02	1.11	0.95	19.4	1	
LTE 41	QPSK20M	Left Side	0	41055	1.58	23.00	22.02	<0.001	0.95	49.8]	
LTE 41	QPSK20M	Right Side	0	41055	1.58	23.00	22.02	0.042	0.95	33.6	17.4	
LTE 41	QPSK20M	Top Side	0	41055	1.58	23.00	22.02	1.64	0.95	17.7	1/.4	
LTE 41	QPSK20M	Bottom Side	0	41055	1.58	23.00	22.02	<0.001	0.95	49.8		
LTE 41	QPSK20M	Top Side	0	39790	1.58	24.00	22.93	1.37	0.95	19.4		
LTE 41	QPSK20M	Top Side	0	39750	1.58	24.00	22.76	1.34	0.95	19.3		
LTE 41	QPSK20M	Top Side	0	40185	1.58	24.00	22.87	1.48	0.95	19		
LTE 41	QPSK20M	Top Side	0	40620	1.58	24.00	22.89	1.89	0.95	17.9	1	
LTE 41	QPSK20M	Top Side	0	41490	1.58	24.00	22.73	1.68	0.95	18.3	1	
LTE 41	QPSK20M	Top Side	0	40185	1.58	24.00	22.87	1.52	0.95	18.8	1	



	lest .	Separation		Crest	Max.	Measured	Measured	SAR			
Band	Mode	Position	Distance	Channel	Factor	Tune-up Power	Conducted Power	SAR-1g	Design	Plimit	Minimum
		POSITION	(mm)		ractor	(dBm)	(dBm)	(W/kg)	Target		
LTE 42	QPSK20M	Rear Face	0	43340	1.58	24.00	22.84	0.459	0.95	24	
LTE 42	QPSK20M	Left Side	0	43340	1.58	24.00	22.84	< 0.001	0.95	50.6	
LTE 42	QPSK20M	Right Side	0	43340	1.58	24.00	22.84	0.329	0.95	25.5	
LTE 42	QPSK20M	Top Side	0	43340	1.58	24.00	22.84	0.948	0.95	20.9	
LTE 42	QPSK20M	Bottom Side	0	43340	1.58	24.00	22.84	< 0.001	0.95	50.6	
LTE 42	QPSK20M	Rear Face	0	43340	1.58	23.00	21.88	0.369	0.95	24	
LTE 42	QPSK20M	Left Side	0	43340	1.58	23.00	21.88	< 0.001	0.95	49.7	20.9
LTE 42	QPSK20M	Right Side	0	43340	1.58	23.00	21.88	0.266	0.95	25.4	
LTE 42	QPSK20M	Top Side	0	43340	1.58	23.00	21.88	0.75	0.95	20.9	
LTE 42	QPSK20M	Bottom Side	0	43340	1.58	23.00	21.88	< 0.001	0.95	49.7	
LTE 42	QPSK20M	Top Side	0	43190	1.58	24.00	22.41	0.704	0.95	21.7	
LTE 42	QPSK20M	Top Side	0	43490	1.58	24.00	22.75	0.766	0.95	21.7	
LTE 42	QPSK20M	Top Side	0	43190	1.58	24.00	22.41	0.781	0.95	21.3	
						<u> </u>					
LTE 48	QPSK20M	Rear Face	0	56640	1.58	24.00	23.39	0.299	0.95	26.4	4
LTE 48	QPSK20M	Left Side	0	56640	1.58	24.00	23.39	< 0.001	0.95	51.2	4
LTE 48	QPSK20M	Right Side	0	56640	1.58	24.00	23.39	0.19	0.95	28.4	1
LTE 48	QPSK20M	Top Side	0	56640	1.58	24.00	23.39	0.996	0.95	21.2	4
LTE 48	QPSK20M	Bottom Side	0	56640	1.58	24.00	23.39	< 0.001	0.95	51.2	4
LTE 48	QPSK20M	Rear Face	0	56640	1.58	23.00	22.38	0.245	0.95	26.3	-
LTE 48	QPSK20M	Left Side	0	56640	1.58	23.00	22.38	< 0.001	0.95	50.2	21.2
LTE 48	QPSK20M	Right Side	0	56640	1.58	23.00	22.38	0.141	0.95	28.7	
LTE 48	QPSK20M	Top Side	0	56640	1.58	23.00	22.38	0.428	0.95	23.9	4
LTE 48	QPSK20M	Bottom Side	0	56640	1.58	23.00	22.38	< 0.001	0.95	50.2	4
LTE 48	QPSK20M	Top Side	0	55340	1.58	24.00	23.34	0.423	0.95	24.9	4
LTE 48	QPSK20M	Top Side	0	55780	1.58	24.00	23.36	0.427	0.95	24.8	4
LTE 48	QPSK20M	Top Side	0	56210	1.58	24.00	23.31	0.471	0.95	24.4	4
LTE 48	QPSK20M	Top Side	0	56640	1.58	24.00	23.39	0.434	0.95	24.8	
LTE 66	OBCK20M	Deex Cores	0	132572	1.00	24.00	22.32	0.585	0.95	24.4	
LTE 66	QPSK20M QPSK20M	Rear Face Left Side	0	132572	1.00	24.00	22.32	< 0.001	0.95	24.4 52.1	-
LTE 66	QPSK20M QPSK20M	Right Side	0	132572	1.00	24.00	22.32	0.105	0.95	31.9	-
LTE 66	OPSK20M OPSK20M	Top Side	0	132572	1.00	24.00	22.32	1.6	0.95	20.1	-
LTE 66	QPSK20M QPSK20M	Bottom Side	0	132572	1.00	24.00	22.32	< 0.001	0.95	52.1	-
LTE 66	QPSK20M QPSK20M	Rear Face	0	132572	1.00	23.00	21.12	0.507	0.95	23.8	-
LTE 66	QPSK20M	Left Side	0	132572	1.00	23.00	21.12	< 0.001	0.95	50.9	19.7
LTE 66	QPSK20M	Right Side	0	132572	1.00	23.00	21.12	0.071	0.95	32.4	10.1
LTE 66	QPSK20M QPSK20M	Top Side	0	132572	1.00	23.00	21.12	1.32	0.95	19.7	-
LTE 66	QPSK20M	Bottom Side	0	132572	1.00	23.00	21.12	< 0.001	0.95	50.9	1
LTE 66	QPSK20M	Top Side	0	132072	1.00	24.00	22.22	1.69	0.95	19.7	1
LTE 66	QPSK20M	Top Side	0	132572	1.00	24.00	22.32	1.52	0.95	20.3	1
LTE 66	QPSK20M	Top Side	0	132572	1.00	24.00	22.32	1.48	0.95	20.3	1
			-								
LTE 71	QPSK20M	Rear Face	0	133222	1.00	24.00	23.08	0.326	0.95	27.7	
LTE 71	QPSK20M	Left Side	0	133222	1.00	24.00	23.08	< 0.001	0.95	52.9	1
LTE 71	QPSK20M	Right Side	0	133222	1.00	24.00	23.08	0.063	0.95	34.9	1
LTE 71	QPSK20M	Top Side	0	133222	1.00	24.00	23.08	0.924	0.95	23.2	1
LTE 71	QPSK20M	Bottom Side	0	133222	1.00	24.00	23.08	< 0.001	0.95	52.9	1
LTE 71	QPSK20M	Rear Face	0	133222	1.00	23.00	21.98	0.261	0.95	27.6	1
LTE 71	QPSK20M	Left Side	0	133222	1.00	23.00	21.98	< 0.001	0.95	51.8	23
LTE 71	QPSK20M	Right Side	0	133222	1.00	23.00	21.98	0.059	0.95	34	
LTE 71	QPSK20M	Top Side	0	133222	1.00	23.00	21.98	0.757	0.95	23	1
LTE 71	QPSK20M	Bottom Side	0	133222	1.00	23.00	21.98	< 0.001	0.95	51.8	
LTE 71	QPSK20M	Top Side	0	133297	1.00	24.00	22.99	0.669	0.95	24.5	
LTE 71	QPSK20M	Top Side	0	133372	1.00	24.00	22.83	0.63	0.95	24.6	
LTE 71	QPSK20M	Top Side	0	133222	1.00	24.00	23.08	0.708	0.95	24.4	



	Lest .	Separation		Crest	Max.	Measured	Measured	SAR			
Band	Mode	Position	Distance	Channel	Factor	Tune-up Power	Conducted Power	SAR-1g	Design	Plimit	Minimum
		POSICION	(mm)		Tactor	(dBm)	(dBm)	(W/kg)	Target		
5GNR-n2	DFT-S QPSK20M	Rear Face	0	376000	1.00	24.00	22.96	0.926	0.95	23.1	
5GNR-n2	DFT-S QPSK20M	Left Side	0	376000	1.00	24.00	22.96	< 0.001	0.95	52.7	
5GNR-n2	DFT-S QPSK20M	Right Side	0	376000	1.00	24.00	22.96	0.062	0.95	34.8	
5GNR-n2	DFT-S QPSK20M	Top Side	0	376000	1.00	24.00	22.96	1.83	0.95	20.1	
5GNR-n2	DFT-S QPSK20M	Bottom Side	0	376000	1.00	24.00	22.96	< 0.001	0.95	52.7	
5GNR-n2	DFT-S QPSK20M	Rear Face	0	376000	1.00	23.50	22.52	0.902	0.95	22.7	
5GNR-n2	DFT-S QPSK20M	Left Side	0	376000	1.00	23.50	22.52	< 0.001	0.95	52.3	20.1
5GNR-n2	DFT-S QPSK20M	Right Side	0	376000	1.00	23.50	22.52	< 0.001	0.95	52.3	20.1
5GNR-n2	DFT-S QPSK20M	Top Side	0	376000	1.00	23.50	22.52	1.21	0.95	21.5	
5GNR-n2	DFT-S QPSK20M	Bottom Side	0	376000	1.00	23.50	22.52	< 0.001	0.95	52.3	
5GNR-n2	DFT-S QPSK20M	Top Side	0	372000	1.00	24.00	22.81	0.974	0.95	22.7	
5GNR-n2	DFT-S QPSK20M	Top Side	0	380000	1.00	24.00	22.69	0.823	0.95	23.3	
5GNR-n2	DFT-S QPSK20M	Top Side	0	376000	1.00	23.50	21.57	0.733	0.95	22.7	
5GNR-n2	DFT-S QPSK20M	Top Side	0	376000	1.00	24.00	22.96	1.59	0.95	20.7	
5GNR-n5	DFT-S QPSK20M	Rear Face	0	167800	1.00	24.00	23.46	0.713	0.95	24.7	
5GNR-n5	DFT-S QPSK20M	Left Side	0	167800	1.00	24.00	23.46	< 0.001	0.95	53.2	1
5GNR-n5	DFT-S QPSK20M	Right Side	0	167800	1.00	24.00	23.46	0.247	0.95	29.3	1
5GNR-n5	DFT-S QPSK20M	Top Side	0	167800	1.00	24.00	23.46	0.831	0.95	24	1
5GNR-n5	DFT-S OPSK20M	Bottom Side	0	167800	1.00	24.00	23.46	< 0.001	0.95	53.2	1
5GNR-n5	DFT-S QPSK20M	Rear Face	0	167800	1.00	23.50	23.27	0.665	0.95	24.8	1
5GNR-n5	DFT-S QPSK20M	Left Side	0	167800	1.00	23.50	23.27	< 0.001	0.95	53	
5GNR-n5	DFT-S OPSK20M	Right Side	0	167800	1.00	23.50	23.27	0.236	0.95	29.3	23.6
5GNR-n5	DFT-S QPSK20M	Top Side	0	167800	1.00	23.50	23.27	0.737	0.95	24.4	1
5GNR-n5	DFT-S QPSK20M	Bottom Side	0	167800	1.00	23.50	23.27	< 0.001	0.95	53	1
5GNR-n5	DFT-S QPSK20M	Top Side	0	166800	1.00	24.00	23.11	0.848	0.95	23.6	1
5GNR-n5	DFT-S QPSK20M	Top Side	0	167300	1.00	24.00	23.31	0.793	0.95	24.1	1
5GNR-n5	DFT-S QPSK20M	Top Side	0	167800	1.00	23.50	22.21	0.614	0.95	24.1	1
5GNR-n5	DFT-S QPSK20M	Top Side	0	166800	1.00	24.00	23.11	0.78	0.95	24	1
5GNR-n66	DFT-S QPSK20M	Rear Face	0	354000	1.00	24.00	22.32	0.639	0.95	24	
5GNR-n66	DFT-S QPSK20M	Left Side	0	354000	1.00	24.00	22.32	< 0.001	0.95	52.1	1
5GNR-n66	DFT-S QPSK20M	Right Side	0	354000	1.00	24.00	22.32	0.099	0.95	32.1	1
5GNR-n66	DFT-S QPSK20M	Top Side	0	354000	1.00	24.00	22.32	1.74	0.95	19.7	
5GNR-n66	DFT-S QPSK20M	Bottom Side	0	354000	1.00	24.00	22.32	< 0.001	0.95	52.1	
5GNR-n66	DFT-S QPSK20M	Rear Face	0	354000	1.00	23.00	22.21	0.753	0.95	23.2	
5GNR-n66	DFT-S QPSK20M	Left Side	0	354000	1.00	23.00	22.21	< 0.001	0.95	52	19.7
5GNR-n66	DFT-S QPSK20M	Right Side	0	354000	1.00	23.00	22.21	0.129	0.95	30.9	
5GNR-n66	DFT-S QPSK20M	Top Side	0	354000	1.00	23.00	22.21	1.57	0.95	20	
5GNR-n66	DFT-S QPSK20M	Bottom Side	0	354000	1.00	23.00	22.21	< 0.001	0.95	52	
5GNR-n66	DFT-S QPSK20M	Top Side	0	344000	1.00	24.00	22.16	1.61	0.95	19.9	
5GNR-n66	DFT-S QPSK20M	Top Side	0	349000	1.00	24.00	22.24	1.65	0.95	19.8	
5GNR-n66	DFT-S QPSK20M	Top Side	0	354000	1.00	24.00	22.32	1.69	0.95	19.8	
5GNR-n71	DFT-S QPSK20M	Rear Face	0	134600	1.00	24.00	23.25	0.41	0.95	26.9	
5GNR-n71	DFT-S QPSK20M	Left Side	0	134600	1.00	24.00	23.25	< 0.001	0.95	53	1
5GNR-n71	DFT-S QPSK20M	Right Side	0	134600	1.00	24.00	23.25	0.088	0.95	33.6	1
5GNR-n71	DFT-S QPSK20M	Top Side	0	134600	1.00	24.00	23.25	1.21	0.95	22.2	1
5GNR-n71	DFT-S QPSK20M	Bottom Side	0	134600	1.00	24.00	23.25	< 0.001	0.95	53	1
5GNR-n71	DFT-S QPSK20M	Rear Face	0	134600	1.00	23.50	22.75	0.358	0.95	27	1
5GNR-n71	DFT-S QPSK20M	Left Side	0	134600	1.00	23.50	22.75	< 0.001	0.95	52.5	1
5GNR-n71	DFT-S QPSK20M	Right Side	0	134600	1.00	23.50	22.75	0.056	0.95	35	22.2
5GNR-n71	DFT-S QPSK20M	Top Side	0	134600	1.00	23.50	22.75	0.88	0.95	23.1	1
	DFT-S QPSK20M	Bottom Side	0	134600	1.00	23.50	22.75	< 0.001	0.95	52.5	1
5GNR-n/1			0	136100	1.00	24.00	22.94	0.927	0.95	23	1
5GNR-n71 5GNR-n71	DFT-S OPSK20M	Lop Side									4
5GNR-n71	DFT-S QPSK20M DFT-S QPSK20M	Top Side Top Side					22.99	0.93			1
	DFT-S QPSK20M DFT-S QPSK20M DFT-S QPSK20M	Top Side Top Side Top Side	0	137600 134600	1.00	24.00 23.50	22.99 21.73	0.93 0.769	0.95 0.95	23.1 22.6	-



Plimit and Pmax Summary

Exposure	e Scenario	Tablet & Laptop			
Averagin	Averaging Volume Test Distance (mm)		P _{max}		
Test Dista					
WWAN Bands	Antenna	Plimit			
WCDMA Band II	0	19.1	23.5		
WCDMA Band IV	0	20.6	23.5		
WCDMA Band V	0	23.8	23.5		
LTE B2	0	20.2	23		
LTE B4	0	20.6	23		
LTE B5	0	23	23		
LTE B7	0	18.7	23		
LTE B12	0	22.6	23		
LTE B13	0	23	23		
LTE B14	0	23	23		
LTE B17	0	22.3	23		
LTE B25	0	20.1	23		
LTE B26	0	23.1	23		
LTE B30	0	19.4	23		
LTE B38	0	16	23		
LTE B41	0	15.4	23		
LTE B42	0	18.9	23		
LTE B48	0	19.2	23		
LTE B66	0	19.7	23		
LTE B71	0	23	23		
5G NR-2	0	20.1	23		
5G NR-5	0	23.6	23		
5G NR-66	0	19.7	23		
5G NR-71	0	22.2	23		

Note :

- 2. All Plimit EFS and maximum tune up output power Pmax levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (e.g. LTE TDD).
- 3. Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.
- 4. The maximum time-averaged output power (dBm) for any 3G/4G/5G Sub6 WWAN technology, band, and DSI = minimum of "Plimit EFS" and "Maximum tune up output power Pmax" + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

^{1.} When Pmax < Plimit, the DUT will operate at a power level up to Pmax.



4. Equipment List

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1013	Aug. 13, 2020	1 Year
System Validation Dipole	SPEAG	D835V2	4d121	Aug. 13, 2020	1 Year
System Validation Dipole	SPEAG	D1750V2	1055	Aug. 14, 2020	1 Year
System Validation Dipole	SPEAG	D1900V2	5d036	Jan. 22, 2021	1 Year
System Validation Dipole	SPEAG	D2300V2	1004	Jan. 22, 2021	1 Year
System Validation Dipole	SPEAG	D2450V2	737	Aug. 13, 2020	1 Year
System Validation Dipole	SPEAG	D2600V2	1020	Aug. 13, 2020	1 Year
System Validation Dipole	SPEAG	D3500V2	1007	Jan. 19, 2021	1 Year
System Validation Dipole	SPEAG	D3700V2	1017	Sep. 14, 2020	1 Year
System Validation Dipole	SPEAG	D3900V2	1020	May. 22, 2020	1 Year
System Validation Dipole	SPEAG	D4600V2	1020	May. 25, 2020	1 Year
System Validation Dipole	SPEAG	D4900V2	1009	May. 25, 2020	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3971	Jan. 27, 2021	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7472	Aug. 24, 2020	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7537	May. 29, 2020	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7554	Sep. 28, 2020	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	7555	Sep. 28, 2020	1 Year
Data Acquisition Electronics	SPEAG	DAE3	579	Aug. 12, 2020	1 Year
Data Acquisition Electronics	SPEAG	DAE4	861	May. 27, 2020	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1277	Jan. 19, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1585	May. 28, 2020	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1589	Sep. 15, 2020	1 Year
Universal Radio Communication Tester	Anritsu	MT8821C	6201381727	Jun. 11, 2020	1 Year
Universal Radio Communication Tester	Anritsu	MT8821C	6201502978	Jul. 09, 2020	1 Year
Universal Radio Communication Tester	Anritsu	MT8821C	6261786083	Jun. 19, 2020	1 Year
Universal Radio Communication Tester	R&S	CMW500	164864	Apr. 16, 2020	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46214281	Jun. 19, 2020	1 Year
Thermometer	YFE	YF-160A	120702365	Aug. 12, 2020	1 Year
Thermometer	YFE	YF-160A	120702369	Aug. 12, 2020	1 Year
Thermometer	YFE	YF-160A	150601220	May. 25, 2020	1 Year
Thermometer	YFE	YF-160A	150601219	Apr. 21, 2020	1 Year
Thermometer	YFE	YF-160A	191100743	Apr. 21, 2020	1 Year
Dielectric Assessment Kit	SPEAG	DAK-3.5	1151	Aug. 19, 2020	1 Year
Powersource1	SPEAG	SE_UMS_160 BA	4010	Aug. 13, 2020	1 Year



5. <u>Measurement Uncertainty</u>

Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.0	Normal	1	1	1	6.0	6.0	8
Axial Isotropy	4.7	Rectangular	√3	√0.5	√0.5	1.9	1.9	8
Hemispherical Isotropy	9.6	Rectangular	√3	√0.5	√0.5	3.9	3.9	8
Boundary Effect	1.0	Rectangular	√3	1	1	0.6	0.6	8
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	8
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	8
Probe Modulation Response	4.8	Rectangular	√3	1	1	2.8	2.8	8
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	8
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	8
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	8
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	ø
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	8
Probe Positioner Mechanical Tolerance	0.02	Rectangular	√3	1	1	0.01	0.01	8
Probe Positioning with Respect to Phantom	0.4	Rectangular	√3	1	1	0.2	0.2	8
Post-processing	2.0	Rectangular	√3	1	1	1.2	1.2	8
Test Sample Related				_	-	-	-	
Test Sample Positioning	2.82 / 1.60	Normal	1	1	1	2.8	1.6	35
Device Holder Uncertainty	2.55 / 2.76	Normal	1	1	1	2.6	2.8	7
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	ø
PowerScaling	0.0	Rectangular	√3	1	1	0.0	0.0	ø
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	5.7	Rectangular	√3	1	1	3.3	3.3	8
Liquid Conductivity (Temperature Uncertainty)	2.58	Rectangular	√3	0.78	0.71	1.2	1.1	ø
Liquid Conductivity (Measured)	2.95	Normal	1	0.78	0.71	2.3	2.1	61
Liquid Permittivity (Temperature Uncertainty)	1.97	Rectangular	√3	0.23	0.26	0.3	0.3	ø
Liquid Permittivity (Measured)	3.04	Normal	1	0.23	0.26	0.7	0.8	47
Combined Standard Uncertainty	•			• 	•	± 10.9 %	± 10.7 %	1
Expanded Uncertainty (K=2)	± 21.8 %	± 21.4 %	1					

Head SAR Uncertainty Budget for Frequency Range of 300 MHz to 3 GHz



Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.55	Normal	1	1	1	6.55	6.55	8
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	1.9	1.9	8
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	3.9	3.9	8
Boundary Effect	2.0	Rectangular	√3	1	1	1.2	1.2	8
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	8
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	8
Probe Modulation Response	4.8	Rectangular	√3	1	1	2.8	2.8	8
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	8
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	8
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.04	Rectangular	√3	1	1	0.02	0.02	∞
Probe Positioning with Respect to Phantom	0.8	Rectangular	√3	1	1	0.5	0.5	∞
Post-processing	4.0	Rectangular	√3	1	1	2.3	2.3	8
Test Sample Related								
Test Sample Positioning	2.82 / 1.60	Normal	1	1	1	2.8	1.6	35
Device Holder Uncertainty	2.55 / 2.76	Normal	1	1	1	2.6	2.8	7
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	8
PowerScaling	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	6.2	Rectangular	√3	1	1	3.6	3.6	8
Liquid Conductivity (Temperature Uncertainty)	2.58	Rectangular	√3	0.78	0.71	1.2	1.1	œ
Liquid Conductivity (Measured)	2.95	Normal	1	0.78	0.71	2.3	2.1	61
Liquid Permittivity (Temperature Uncertainty)	1.97	Rectangular	√3	0.23	0.26	0.3	0.3	œ
Liquid Permittivity (Measured)	3.04	Normal	1	0.23	0.26	0.7	0.8	47
Combined Standard Uncertainty	•					± 11.6 %	± 11.3 %	
Expanded Uncertainty (K=2)	± 23.2 %	± 22.6 %						

Head SAR Uncertainty Budget for Frequency Range of 3 GHz to 6 GHz



Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.0	Normal	1	1	1	6.0	6.0	8
Axial Isotropy	4.7	Rectangular	√3	√0.5	√0.5	1.9	1.9	8
Hemispherical Isotropy	9.6	Rectangular	√3	√0.5	√0.5	3.9	3.9	8
Boundary Effect	1.0	Rectangular	√3	1	1	0.6	0.6	8
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	8
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	8
Probe Modulation Response	4.8	Rectangular	√3	1	1	2.8	2.8	8
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	8
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.02	Rectangular	√3	1	1	0.01	0.01	8
Probe Positioning with Respect to Phantom	0.4	Rectangular	√3	1	1	0.2	0.2	∞
Post-processing	2.0	Rectangular	√3	1	1	1.2	1.2	∞
Test Sample Related								
Test Sample Positioning	3.68 / 1.73	Normal	1	1	1	3.7	1.7	29
Device Holder Uncertainty	2.55 / 2.76	Normal	1	1	1	2.6	2.8	7
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	∞
PowerScaling	0.0	Rectangular	√3	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	7.2	Rectangular	√3	1	1	4.2	4.2	8
Liquid Conductivity (Temperature Uncertainty)	2.58	Rectangular	√3	0.78	0.71	1.2	1.1	8
Liquid Conductivity (Measured)	2.95	Normal	1	0.78	0.71	2.3	2.1	61
Liquid Permittivity (Temperature Uncertainty)	1.97	Rectangular	√3	0.23	0.26	0.3	0.3	∞
Liquid Permittivity (Measured)	3.04	Normal	1	0.23	0.26	0.7	0.8	47
Combined Standard Uncertainty			•	•	•	± 11.5 %	± 11.0 %	1
Expanded Uncertainty (K=2)	± 23.0 %	± 22.0 %						

Body SAR Uncertainty Budget for Frequency Range of 300 MHz to 3 GHz



Source of Uncertainty	Uncertainty (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (± %, 1g)	Standard Uncertainty (± %, 10g)	Vi
Measurement System								
Probe Calibration	6.55	Normal	1	1	1	6.55	6.55	8
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	3.9	3.9	8
Boundary Effect	2.0	Rectangular	√3	1	1	1.2	1.2	8
Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	8
Detection Limits	0.25	Rectangular	√3	1	1	0.14	0.14	8
Probe Modulation Response	4.8	Rectangular	√3	1	1	2.8	2.8	8
Readout Electronics	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	0.0	Rectangular	√3	1	1	0.0	0.0	8
Integration Time	1.7	Rectangular	√3	1	1	1.0	1.0	8
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.7	1.7	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.7	1.7	8
Probe Positioner Mechanical Tolerance	0.04	Rectangular	√3	1	1	0.02	0.02	8
Probe Positioning with Respect to Phantom	0.8	Rectangular	√3	1	1	0.5	0.5	∞
Post-processing	4.0	Rectangular	√3	1	1	2.3	2.3	8
Test Sample Related								
Test Sample Positioning	3.68 / 1.73	Normal	1	1	1	3.7	1.7	29
Device Holder Uncertainty	2.55 / 2.76	Normal	1	1	1	2.6	2.8	7
Power Drift of Measurement	5.0	Rectangular	√3	1	1	2.9	2.9	8
PowerScaling	0.0	Rectangular	√3	1	1	0.0	0.0	œ
Phantom and Setup								
Phantom Uncertainty (Shape and Thickness Tolerances)	7.6	Rectangular	√3	1	1	4.4	4.4	8
Liquid Conductivity (Temperature Uncertainty)	2.58	Rectangular	√3	0.78	0.71	1.2	1.1	œ
Liquid Conductivity (Measured)	2.95	Normal	1	0.78	0.71	2.3	2.1	61
Liquid Permittivity (Temperature Uncertainty)	1.97	Rectangular	√3	0.23	0.26	0.3	0.3	œ
Liquid Permittivity (Measured)	3.04	Normal	1	0.23	0.26	0.7	0.8	47
Combined Standard Uncertainty						± 12.1 %	± 11.6 %	
Expanded Uncertainty (K=2)	± 24.2 %	± 23.2 %						

Body SAR Uncertainty Budget for Frequency Range of 3 GHz to 6 GHz



6. Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The road map of all our labs can be found in our web site also.

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