

RF Exposure report



The following samples were submitted and identified on behalf of the client as:

EUT Description	Wireless module installed in Notebook Computer
Brand Name	Rolling Wireless
Model No.	RW220-GL
Host Model Number:	HSN-I70C
Applicant	Rolling Wireless S.a r.l. 8-10 rue Mathias Hardt 1717, Luxembourg
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	2AX2URW220GL
Date of EUT Receipt	May 21, 2026
Date of Test(s)	Jun. 04, 2026 ~ Jun. 05, 2026
Date of Issue	Jul. 17, 2026

Approved By /

John Teh

John Yeh

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2605000372ES	00	Initial creation of document	Jul. 17, 2026	Cindy Chou	

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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1 GENERAL INFORMATION

1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB 447498D01v06

KDB 865664D01v01r04

KDB 865664D02v01r02

KDB 616217D04v01r02

KDB 941225D05v02r05

KDB 941225D05Av01r02

KDB 248227D01v02r01

IEC/IEEE 62209-1528:2020

SPEAG DASY6 System Handbook

SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

IEC TR 63170:2018

IEC 62479:2010

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1.2 Description of EUT

EUT Description	Wireless module installed in Notebook Computer	
Brand Name	Rolling Wireless	
Model No.	RW220-GL	
Host Brand Name	HP	
Host Model Number:	HSN-I70C	
Integrated WLAN Module	Brand Name: MediaTek Model Name: MT7925B14L	
Duty Cycle	LTE FDD	1
	WLAN 802.11	Please refer to section 3
	Bluetooth	Please refer to section 3
Supported radios (TX Frequency Range, MHz)	LTE FDD Band 5	824-849
	LTE FDD Band 12	699-716
	LTE FDD Band 26	814-849
	802.11 b/g/n/ac/ax/be	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax/be	5.2GHz (5150.0 – 5250.0 MHz) 5.3GHz (5250.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 5.9GHz (5850.0 – 5895.0 MHz)
	802.11a/ax/be	6.2GHz (5925.0 – 6425.0 MHz) 6.5GHz (6425.0 – 6525.0 MHz) 6.7GHz (6525.0 – 6875.0 MHz) 7.0GHz (6875.0 – 7125.0 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

This device has WLAN module MT7925B14L integrated into the device for this model. The antennas for WLAN module MT7925B14L located at the top of panel which the distance of antenna to human body is over 20cm (refer to antenna location) and according to regulation, it is SAR exclusion.

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1.3 Maximum value

Summary of Maximum SAR Value	
Mode	Highest SAR 1g (W/kg)
LTE Band 5	0.646

1.4 Antenna Information

WWAN

Vendor		Part Number	Antenna
Vendor 1		6036B0402101 (260-23861)	Ant 5
Band	Frequency(MHz)	Peak Gain (dBi)	
		Ant 5	
LTE 5	824~849	-0.52	
LTE 12	699~716	0.11	
LTE 26	814~849	-0.52	

Vendor		Part Number	Antenna
Vendor 2		6036B0403001 (81EACC15.G65)	Ant 5
Band	Frequency(MHz)	Peak Gain (dBi)	
		Ant 5	
LTE 5	824~849	-0.65	
LTE 12	699~716	-1.48	
LTE 26	814~849	-0.65	

WLAN

Vendor		Part Number	Antenna
Vendor 1_LCD		6036B0402301 (260-23858)	Tx1/Aux
		6036B0402901 (260-23857)	Tx2/Main
Band	Frequency(MHz)	Peak Gain (dBi)	
		Tx1/Aux	Tx2/Main
2.45GHz	2400~2500	2.18	2.05
5.2GHz	5150~5250	2.99	2.53
5.3GHz	5250~5350	2.79	2.73
5.6GHz	5470~5725	1.75	2.18
5.8GHz	5725~5850	2.31	2.36
5.9GHz	5850~5895	2.58	2.19
6.2GHz	5925~6425	2.26	2.74
6.5GHz	6425~6525	2.74	2.86
6.7GHz	6525~6875	2.10	1.80
7.0GHz	6875~7125	-0.11	0.36

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Vendor		Part Number		Antenna
Vendor 1_OLED		6036B0402001 (260-23860)		Tx1/Aux
		6036B0402201 (260-23859)		Tx2/Main
Band	Frequency(MHz)	Peak Gain (dBi)		
		Tx1/Aux	Tx2/Main	
2.45GHz	2400~2500	2.13	2.93	
5.2GHz	5150~5250	2.02	1.96	
5.3GHz	5250~5350	2.80	2.35	
5.6GHz	5470~5725	2.82	2.93	
5.8GHz	5725~5850	2.92	2.90	
5.9GHz	5850~5895	2.79	2.95	
6.2GHz	5925~6425	0.83	2.05	
6.5GHz	6425~6525	0.45	1.49	
6.7GHz	6525~6875	1.20	2.31	
7.0GHz	6875~7125	-0.27	0.62	

Vendor		Part Number		Antenna
Vendor 2_LCD		6036B0402701 (81EACC15.G63)		Tx1/Aux
		6036B0403201 (81EACC15.G64)		Tx2/Main
Band	Frequency(MHz)	Peak Gain (dBi)		
		Tx1/Aux	Tx2/Main	
2.45GHz	2400~2500	0.65	0.26	
5.2GHz	5150~5250	1.32	1.90	
5.3GHz	5250~5350	1.32	2.24	
5.6GHz	5470~5725	2.40	1.42	
5.8GHz	5725~5850	1.23	0.01	
5.9GHz	5850~5895	-1.07	-0.24	
6.2GHz	5925~6425	-0.26	1.59	
6.5GHz	6425~6525	-1.63	-1.19	
6.7GHz	6525~6875	-1.87	0.89	
7.0GHz	6875~7125	-1.97	-0.54	

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Vendor		Part Number		Antenna
Vendor 2_OLED		6036B0403101 (81EACC15.G70)		Tx1/Aux
		6036B0402601 (81EACC15.G71)		Tx2/Main
Band	Frequency(MHz)	Peak Gain (dBi)		
		Tx1/Aux	Tx2/Main	
2.45GHz	2400~2500	-0.17	-0.25	
5.2GHz	5150~5250	-0.22	-0.13	
5.3GHz	5250~5350	0.21	1.41	
5.6GHz	5470~5725	0.63	2.19	
5.8GHz	5725~5850	-0.15	0.63	
5.9GHz	5850~5895	-0.34	-0.77	
6.2GHz	5925~6425	0.00	0.80	
6.5GHz	6425~6525	0.00	0.76	
6.7GHz	6525~6875	1.74	1.21	
7.0GHz	6875~7125	-0.44	-0.40	

Note: Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	Test Engineer	Project Engineer	FCC Designation number/ Registration Number	IC CAB identifier/ Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, NeiHu District, Taipei City, 11493, Taiwan	SAR 2	-	-	TW0029/ 150169	TW3702/ 23862
		SAR 6	-	-		
		SAR 8	-	-		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	-	-	TW0028/ 200037	TW3702/ 4620E
		SAR 4	-	-		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	-	-	TW0027/ 891563	TW3702/ 4620A
		SAR 7	Ender Lin	Kiki Lin		

Note: Test site name is remarked on a bolded mark as an indication where measurements occurred in specific test site and address.

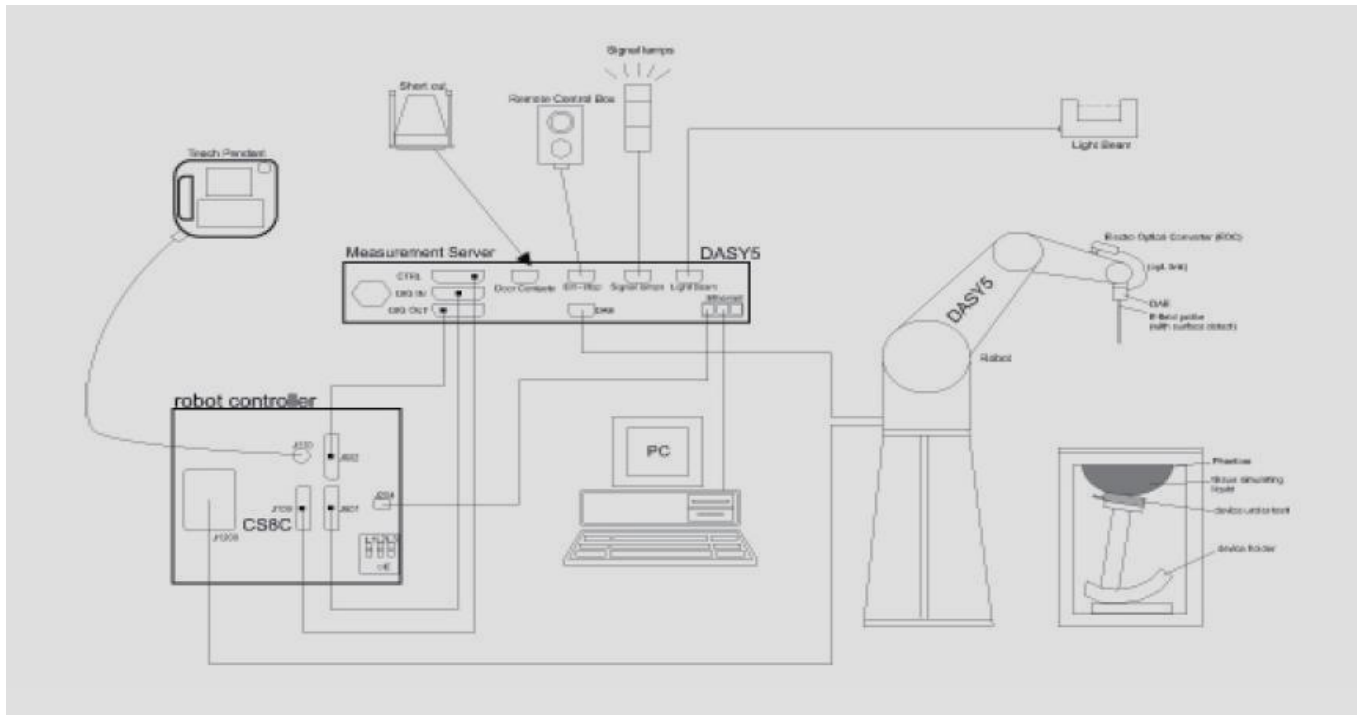
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2.2 SAR System

Block Diagram (DASY5)

A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|)^2 / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.



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EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 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 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)	
Dimensions	Tip diameter: 2.5 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%.	

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PHANTOM (ELI)

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	
		Device Holder

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3 SAR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear rint (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

3.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within $\pm 5\%$ of the target values.

3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
707.5	42.127	0.887	43.437	0.873	3.11%	-1.58%	$\pm 5\%$	Jun. 05, 2026
711	42.108	0.887	43.430	0.880	3.14%	-0.79%	$\pm 5\%$	
750	41.900	0.890	43.208	0.887	3.12%	-0.34%	$\pm 5\%$	
821.5	41.564	0.898	42.892	0.893	3.20%	-0.56%	$\pm 5\%$	
829	41.528	0.899	42.873	0.895	3.24%	-0.48%	$\pm 5\%$	
831.5	41.516	0.900	42.857	0.901	3.23%	0.11%	$\pm 5\%$	
835	41.500	0.900	42.825	0.905	3.19%	0.56%	$\pm 5\%$	
836.5	41.500	0.902	42.822	0.908	3.19%	0.67%	$\pm 5\%$	
841.5	41.500	0.907	42.808	0.911	3.15%	0.44%	$\pm 5\%$	
844	41.500	0.910	42.794	0.914	3.12%	0.44%	$\pm 5\%$	

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3.4 The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

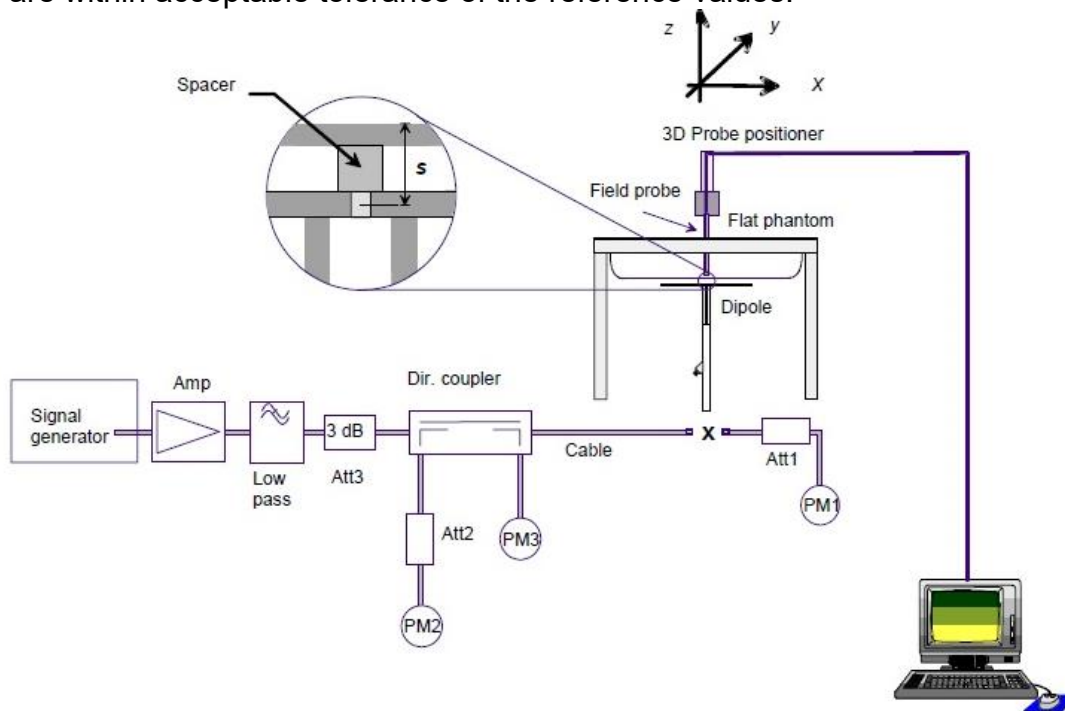
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

3.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values.

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



The block diagram of system check

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3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D750V3	1015	750	8.54	1.99	7.96	-6.79	± 10%	Jun.05,2026
D835V2	4d063	835	9.47	2.34	9.36	-1.16	± 10%	Jun.05,2026

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4 TEST CONFIGURATIONS

4.1 Test Environment

Ambient Temperature: $22 \pm 2^\circ \text{C}$

Tissue Simulating Liquid: $22 \pm 2^\circ \text{C}$

4.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is $\leq 0.8 \text{ W/kg}$, when the transmission band is $\leq 100 \text{ MHz}$. According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is $\geq 0.8 \text{ W/kg}$, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45 \text{ W/kg}$ ($\sim 10\%$ from the 1-g SAR limit).
- **LTE:** LTE modes test according to **KDB 941225D05v02r05**.
 - a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
 - Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - When the reported SAR is $\leq 0.8 \text{ W/kg}$, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; 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.
 - When the reported SAR of a required test channel is $> 1.45 \text{ W/kg}$, SAR is required for all three RB offset configurations for that required test channel.
 - b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
 - The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
 - c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation

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- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.

- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

d. Per Section 5.2.4, Higher order modulations

- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 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. Per Section 5.3, 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 5.2 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. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4.2, the duty factor for UL-DL configuration 0/special subframe configuration 6 using extended cyclic prefix is 0.633.

According to KDB 941225 D05, SAR testing for TDD LTE must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be

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tabulated as below.

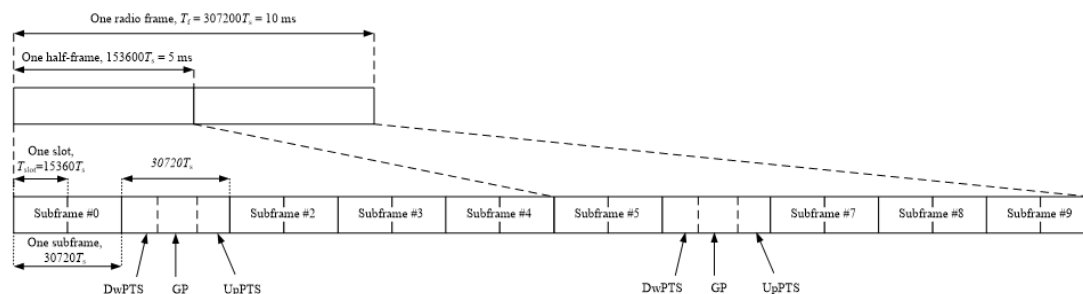


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$20480 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Considering the highest transmission duty cycle, TDD LTE was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%.

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4.3 Test position

Laptop mode SAR test position (0mm)

For laptop PC, according to KDB 616217 D04, SAR evaluation is required for the bottom surface of the keyboard. This EUT was tested in the base of EUT directly against the flat phantom. The required minimum test separation distance for incorporating transmitters and antennas into laptop computer display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

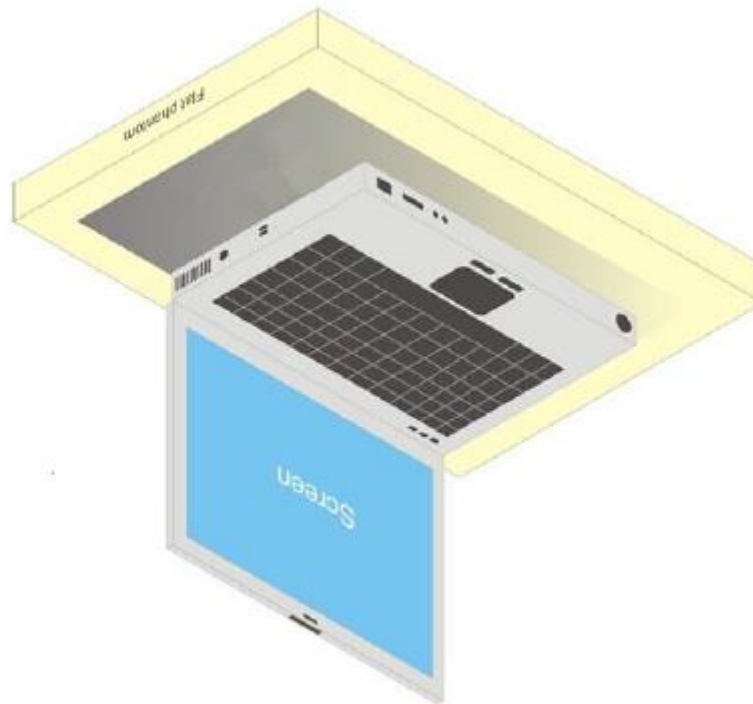


Illustration for Laptop Setup

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4.4 Test limit

[§ 2.1093\(d\)\(1\)](#)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in [§ 1.1310](#) as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in [§ 1.1310\(a\)](#) through [\(c\) of this chapter](#) shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

Radiofrequency radiation exposure limits.

[§ 1.1310\(a\)](#)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

[§ 1.1310\(b\)](#)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

[§ 1.1310\(c\)](#)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in [Section 4.2](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, [Section 17.4.5](#), copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in [Section 4.1](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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5 MAXIMUM OUTPUT POWER

5.1 FDD LTE

LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				829	836.5	844		
Channel				20450	20525	20600		
10	QPSK	1	0	23.57	23.42	23.93	24.00	0
		1	25	23.33	23.26	23.37	24.00	0
		1	49	23.32	23.24	23.33	24.00	0
		25	0	22.36	22.33	22.38	23.00	1
		25	12	22.38	22.24	22.35	23.00	1
		25	25	22.23	22.31	22.35	23.00	1
		50	0	22.39	22.22	22.28	23.00	1
10	16-QAM	1	0	22.20	22.36	22.34	23.00	1
		1	25	22.38	22.38	22.37	23.00	1
		1	49	22.32	22.31	22.22	23.00	1
		25	0	21.31	21.30	21.34	22.00	2
		25	12	21.31	21.20	21.38	22.00	2
		25	25	21.32	21.33	21.28	22.00	2
		50	0	21.31	21.37	21.29	22.00	2
LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				826.5	836.5	846.5		
Channel				20425	20525	20625		
5	QPSK	1	0	23.20	23.22	23.23	24.00	0
		1	12	23.28	23.21	23.37	24.00	0
		1	24	23.30	23.21	23.24	24.00	0
		12	0	22.28	22.37	22.27	23.00	1
		12	6	22.26	22.24	22.26	23.00	1
		12	13	22.38	22.21	22.22	23.00	1
		25	0	22.37	22.32	22.26	23.00	1
5	16-QAM	1	0	22.22	22.38	22.32	23.00	1
		1	12	22.26	22.25	22.39	23.00	1
		1	24	22.34	22.24	22.23	23.00	1
		12	0	21.39	21.28	21.32	22.00	2
		12	6	21.26	21.36	21.28	22.00	2
		12	13	21.34	21.23	21.21	22.00	2
		25	0	21.36	21.35	21.25	22.00	2

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LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				825.5	836.5	847.5		
Channel				20415	20525	20635		
3	QPSK	1	0	23.26	23.38	23.38	24.00	0
		1	7	23.37	23.38	23.21	24.00	0
		1	14	23.20	23.25	23.27	24.00	0
		8	0	22.22	22.22	22.34	23.00	1
		8	4	22.29	22.24	22.34	23.00	1
		8	7	22.26	22.29	22.25	23.00	1
		15	0	22.35	22.24	22.24	23.00	1
3	16-QAM	1	0	22.21	22.31	22.23	23.00	1
		1	7	22.35	22.39	22.21	23.00	1
		1	14	22.37	22.33	22.30	23.00	1
		8	0	21.37	21.24	21.37	22.00	2
		8	4	21.30	21.19	21.36	22.00	2
		8	7	21.20	21.36	21.38	22.00	2
		15	0	21.33	21.30	21.21	22.00	2
LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				824.7	836.5	848.3		
Channel				20407	20525	20643		
1.4	QPSK	1	0	23.27	23.39	23.31	24.00	0
		1	2	23.38	23.37	23.35	24.00	0
		1	5	23.26	23.38	23.38	24.00	0
		3	0	22.28	22.32	22.23	24.00	0
		3	2	22.25	22.38	22.33	24.00	0
		3	3	22.36	22.20	22.38	24.00	0
		6	0	22.31	22.25	22.22	23.00	1
1.4	16-QAM	1	0	22.33	22.29	22.33	23.00	1
		1	2	22.36	22.38	22.28	23.00	1
		1	5	22.23	22.29	22.35	23.00	1
		3	0	21.27	21.31	21.38	23.00	1
		3	2	21.33	21.29	21.26	23.00	1
		3	3	21.20	21.34	21.21	23.00	1
		6	0	21.27	21.23	21.31	22.00	2

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				704	707.5	711		
Channel				23060	23095	23130		
10	QPSK	1	0	21.75	22.11	21.90	22.50	0
		1	25	21.73	21.65	21.71	22.50	0
		1	49	21.69	21.55	21.68	22.50	0
		25	0	20.55	20.59	20.63	21.50	1
		25	12	20.58	20.61	20.66	21.50	1
		25	25	20.62	20.58	20.66	21.50	1
		50	0	20.71	20.57	20.66	21.50	1
10	16-QAM	1	0	20.57	20.61	20.54	21.50	1
		1	25	20.60	20.68	20.62	21.50	1
		1	49	20.73	20.64	20.53	21.50	1
		25	0	19.64	19.56	19.54	20.50	2
		25	12	19.66	19.66	19.64	20.50	2
		25	25	19.60	19.56	19.59	20.50	2
		50	0	19.61	19.71	19.57	20.50	2
LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				701.5	707.5	713.5		
Channel				23035	23095	23155		
5	QPSK	1	0	21.71	21.63	21.62	22.50	0
		1	12	21.59	21.54	21.60	22.50	0
		1	24	21.57	21.70	21.65	22.50	0
		12	0	20.59	20.66	20.69	21.50	1
		12	6	20.72	20.58	20.53	21.50	1
		12	13	20.55	20.65	20.55	21.50	1
		25	0	20.59	20.59	20.57	21.50	1
5	16-QAM	1	0	20.71	20.56	20.66	21.50	1
		1	12	20.68	20.67	20.72	21.50	1
		1	24	20.54	20.64	20.67	21.50	1
		12	0	19.67	19.63	19.65	20.50	2
		12	6	19.61	19.67	19.63	20.50	2
		12	13	19.70	19.60	19.66	20.50	2
		25	0	19.67	19.55	19.63	20.50	2

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BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				700.5	707.5	714.5		
Channel				23025	23095	23165		
3	QPSK	1	0	21.69	21.70	21.57	22.50	0
		1	7	21.55	21.61	21.55	22.50	0
		1	14	21.66	21.62	21.60	22.50	0
		8	0	20.62	20.64	20.67	21.50	1
		8	4	20.60	20.73	20.55	21.50	1
		8	7	20.67	20.55	20.69	21.50	1
		15	0	20.67	20.72	20.54	21.50	1
3	16-QAM	1	0	20.64	20.72	20.60	21.50	1
		1	7	20.66	20.71	20.54	21.50	1
		1	14	20.59	20.54	20.62	21.50	1
		8	0	19.64	19.58	19.67	20.50	2
		8	4	19.66	19.62	19.71	20.50	2
		8	7	19.70	19.71	19.68	20.50	2
		15	0	19.68	19.60	19.56	20.50	2
LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				699.7	707.5	715.3		
Channel				23017	23095	23173		
1.4	QPSK	1	0	21.61	21.61	21.65	22.50	0
		1	2	21.54	21.54	21.58	22.50	0
		1	5	21.56	21.53	21.54	22.50	0
		3	0	20.70	20.72	20.54	22.50	0
		3	2	20.67	20.63	20.65	22.50	0
		3	3	20.70	20.56	20.58	22.50	0
		6	0	20.61	20.57	20.69	21.50	1
1.4	16-QAM	1	0	20.59	20.65	20.66	21.50	1
		1	2	20.72	20.60	20.65	21.50	1
		1	5	20.57	20.61	20.57	21.50	1
		3	0	19.58	19.64	19.61	21.50	1
		3	2	19.60	19.63	19.54	21.50	1
		3	3	19.58	19.64	19.67	21.50	1
		6	0	19.68	19.59	19.68	20.50	2

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				821.5	831.5	841.5		
Channel				26765	26865	26965		
15	QPSK	1	0	23.78	23.87	23.83	24.00	0
		1	36	23.67	23.56	23.58	24.00	0
		1	74	23.58	23.64	23.66	24.00	0
		36	0	22.69	22.58	22.61	23.00	1
		36	18	22.76	22.66	22.71	23.00	1
		36	37	22.70	22.72	22.57	23.00	1
		75	0	22.72	22.76	22.59	23.00	1
15	16-QAM	1	0	22.70	22.68	22.72	23.00	1
		1	36	22.71	22.60	22.61	23.00	1
		1	74	22.64	22.70	22.68	23.00	1
		36	0	21.71	21.59	21.75	22.00	2
		36	18	21.75	21.68	21.72	22.00	2
		36	37	21.58	21.65	21.64	22.00	2
		75	0	21.58	21.76	21.69	22.00	2
LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				819	831.5	844		
Channel				26740	26865	26990		
10	QPSK	1	0	23.63	23.67	23.73	24.00	0
		1	25	23.74	23.61	23.68	24.00	0
		1	49	23.58	23.63	23.64	24.00	0
		25	0	22.61	22.70	22.72	23.00	1
		25	12	22.62	22.62	22.73	23.00	1
		25	25	22.70	22.65	22.63	23.00	1
		50	0	22.74	22.58	22.73	23.00	1
10	16-QAM	1	0	22.73	22.66	22.57	23.00	1
		1	25	22.57	22.73	22.62	23.00	1
		1	49	22.70	22.63	22.74	23.00	1
		25	0	21.73	21.72	21.60	22.00	2
		25	12	21.66	21.74	21.69	22.00	2
		25	25	21.75	21.57	21.56	22.00	2
		50	0	21.60	21.67	21.68	22.00	2

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				816.5	831.5	846.5		
Channel				26715	26865	27015		
5	QPSK	1	0	23.73	23.72	23.58	24.00	0
		1	12	23.59	23.75	23.74	24.00	0
		1	24	23.57	23.59	23.66	24.00	0
		12	0	22.74	22.70	22.60	23.00	1
		12	6	22.70	22.74	22.67	23.00	1
		12	13	22.57	22.67	22.65	23.00	1
		25	0	22.59	22.66	22.69	23.00	1
5	16-QAM	1	0	22.57	22.58	22.70	23.00	1
		1	12	22.72	22.61	22.60	23.00	1
		1	24	22.59	22.59	22.72	23.00	1
		12	0	21.71	21.69	21.71	22.00	2
		12	6	21.60	21.67	21.66	22.00	2
		12	13	21.61	21.65	21.58	22.00	2
		25	0	21.59	21.75	21.75	22.00	2
LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				815.5	831.5	847.5		
Channel				26705	26865	27025		
3	QPSK	1	0	23.56	23.62	23.69	24.00	0
		1	7	23.62	23.62	23.62	24.00	0
		1	14	23.57	23.68	23.56	24.00	0
		8	0	22.60	22.57	22.74	23.00	1
		8	4	22.56	22.59	22.70	23.00	1
		8	7	22.70	22.62	22.63	23.00	1
		15	0	22.57	22.58	22.57	23.00	1
3	16-QAM	1	0	22.66	22.63	22.72	23.00	1
		1	7	22.67	22.59	22.74	23.00	1
		1	14	22.59	22.58	22.74	23.00	1
		8	0	21.70	21.65	21.67	22.00	2
		8	4	21.56	21.58	21.74	22.00	2
		8	7	21.58	21.69	21.67	22.00	2
		15	0	21.67	21.70	21.67	22.00	2

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				814.7	831.5	848.3		
Channel				26697	26865	27033		
1.4	QPSK	1	0	23.66	23.63	23.60	24.00	0
		1	2	23.57	23.67	23.66	24.00	0
		1	5	23.64	23.74	23.72	24.00	0
		3	0	22.65	22.61	22.66	24.00	0
		3	2	22.69	22.63	22.72	24.00	0
		3	3	22.61	22.71	22.71	24.00	0
		6	0	22.64	22.60	22.75	23.00	1
1.4	16-QAM	1	0	22.62	22.75	22.65	23.00	1
		1	2	22.68	22.66	22.67	23.00	1
		1	5	22.73	22.69	22.58	23.00	1
		3	0	21.67	21.66	21.61	23.00	1
		3	2	21.76	21.63	21.71	23.00	1
		3	3	21.69	21.72	21.76	23.00	1
		6	0	21.70	21.63	21.68	22.00	2

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6 SUMMARY OF RESULTS

6.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

6.2 Summary of SAR Results

Band	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		ID
												Measured	Reported	
LTE Band 5	10MHz	QPSK	1	0	Bottom Surface	0	20450	829	24.00	23.57	110.41%	0.523	0.577	-
LTE Band 5			1	0	Bottom Surface	0	20525	836.5	24.00	23.42	114.29%	0.553	0.632	-
LTE Band 5			1	0	Bottom Surface	0	20600	844	24.00	23.93	101.62%	0.636	0.646	001
LTE Band 5			25	12	Bottom Surface	0	20450	829	23.00	22.38	115.35%	0.344	0.397	-
LTE Band 5			25	0	Bottom Surface	0	20600	844	23.00	22.38	115.35%	0.391	0.451	-
LTE Band 5			1	0	Bottom Surface*	0	20600	844	24.00	23.93	101.62%	0.611	0.621	-
LTE Band 12	10MHz	QPSK	1	0	Bottom Surface	0	23060	704	22.50	21.75	118.85%	0.374	0.444	-
LTE Band 12			1	0	Bottom Surface	0	23085	707.5	22.50	22.11	109.40%	0.444	0.486	002
LTE Band 12			1	0	Bottom Surface	0	23130	711	22.50	21.90	114.82%	0.381	0.437	-
LTE Band 12			25	12	Bottom Surface	0	23130	711	21.50	20.66	121.34%	0.388	0.471	-
LTE Band 12			1	0	Bottom Surface*	0	23095	707.5	22.50	22.11	109.40%	0.423	0.463	-
LTE Band 26_FCC	15MHz	QPSK	1	0	Bottom Surface	0	26765	821.5	24.00	23.78	105.20%	0.515	0.542	-
LTE Band 26_FCC			1	0	Bottom Surface	0	26865	831.5	24.00	23.87	103.04%	0.556	0.573	003
LTE Band 26_FCC			1	0	Bottom Surface	0	26965	841.5	24.00	23.83	103.99%	0.492	0.512	-
LTE Band 26_FCC			36	18	Bottom Surface	0	26765	821.5	23.00	22.76	105.68%	0.451	0.477	-
LTE Band 26_FCC			1	0	Bottom Surface*	0	26865	831.5	24.00	23.87	103.04%	0.529	0.545	-

Note: * - Spot Check Vendor 2

Note:

Reported SAR = measured SAR * Power scaling * Duty cycle scaling

6.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

6.4 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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7 SIMULTANEOUS TRANSMISSION ANALYSIS

7.1 Simultaneous Transmission Scenarios:

Simultaneous Transmission configurations
WWAN + WLAN

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7.2 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

7.3 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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Simultaneous Transmission Combination

			FCC Reported SAR		Scenario 1
	Exposure Position		1	2	1+2 Summed TER<1
			WWAN Ant5	Maximum WLAN	
			1g SAR (W/kg)	ER	
LTE Band 5	Bottom Surface	0	0.646	0.145	0.549
LTE Band 12	Bottom Surface	0	0.486	0.145	0.449
LTE Band 26_FCC	Bottom Surface	0	0.573	0.145	0.503

7.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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8 FCC MPE EVALUATION

8.1 FCC MPE limit

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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8.2 Power density calculation (Worst Case)

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit	Collocated MPE							
										1	2	3	4	5	6	7	8
WiFi 2.4GHz_Tx1	2412.00	20	22.5	2.18	293.76	0.0585	1.000	Pass	0.058			V		V			
Bluetooth_Tx1	2402.00	20	11.5	2.18	23.33	0.005	1.000	Pass	0.005	V	V						
WiFi 5GHz_Tx1	5180.00	20	22.5	2.99	354.00	0.070	1.000	Pass	0.070	V			V			V	
WiFi 6GHz_Tx1	7125.00	20	21.5	2.74	265.46	0.053	1.000	Pass	0.053		V				V		V
WiFi 2.4GHz_Tx2	2412.00	20	22.5	2.93	349.14	0.069	1.000	Pass	0.069				V		V		
WiFi 5GHz_Tx2	5180.00	20	22.5	2.95	350.75	0.070	1.000	Pass	0.070	V		V					V
WiFi 6GHz_Tx2	7125.00	20	21.5	2.86	272.90	0.054	1.000	Pass	0.054		V			V		V	

Note:

For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

Simultaneous transmission modes		Σ (Power Density / Limit)	Criteria
1	WLAN 5GHz Tx1 + WLAN 5GHz Tx2 + BT Tx1	0.145	1
2	WLAN 6GHz Tx1 + WLAN 6GHz Tx2 + BT Tx1	0.112	1
3	WLAN 2.4GHz Tx1 + WLAN 5GHz Tx2	0.128	1
4	WLAN 2.4GHz Tx2 + WLAN 5GHz Tx1	0.140	1
5	WLAN 2.4GHz Tx1 + WLAN 6GHz Tx2	0.113	1
6	WLAN 2.4GHz Tx2 + WLAN 6GHz Tx1	0.122	1
7	WLAN 5GHz Tx1 + WLAN 6GHz Tx2	0.125	1
8	WLAN 5GHz Tx2 + WLAN 6GHz Tx1	0.123	1

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9 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	856	Nov/04/2025	Nov/03/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7754	Nov/28/2025	Nov/27/2026
SPEAG	System Validation Dipole	D750V3	1015	Sep/26/2025	Sep/25/2028
SPEAG	System Validation Dipole	D835V2	4d063	Sep/09/2025	Sep/08/2028
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/19/2026	Feb/18/2027
Keysight	EXA Signal Analyzer	N9010B	MY60242392	Dec/24/2025	Dec/23/2026
R&S	MXG Analog Signal Generator	SMB100A03	182012	Aug/09/2025	Aug/08/2026
Agilent	Dual-directional coupler	772D	MY52180142	Nov/13/2025	Nov/12/2026
Agilent	Dual-directional coupler	778D	MY52180302	Nov/13/2025	Nov/12/2026
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101974	Nov/26/2025	Nov/25/2026
R&S	Power Sensor	NRP18S	109066	Nov/03/2025	Nov/02/2026
R&S	Power Meter	NRX	105651	Nov/26/2025	Nov/25/2026
SPEAG	Software	DASY 52 V52.10.4.152 7	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
LKM	Digital thermometer	DTM3000	3896	Jan/09/2026	Jan/08/2027
TECEP	Digital thermometer	DTM-303A	TP130077	Oct/03/2025	Oct/02/2026

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10 UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	$h=c * f / e$	$i=c * g / e$	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy, Axial	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Mechanical restrictions									
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	3.24%	N	1	1	0.64	0.43	2.07%	1.39%	M
Liquid Conductivity (mea.)	1.58%	N	1	1	0.6	0.49	0.95%	0.77%	M
Combined standard uncertainty		RSS					11.64%	11.52%	
Expan uncertainty (95% confidence interval), K=2							23.29%	23.04%	

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11 SAR MEASUREMENT RESULTS

Date: 2026/6/5

ID: 001

Report No. :TESA2605000372ES

LTE Band 5 (10MHz)_Body_Bottom Surface_CH 20600_QPSK_1-0_0mm_Ant 5

Communication System: LTE; Frequency: 844 MHz;Duty cycle= 1:1

Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 42.794$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7754; ConvF(8.6, 8.77, 9.27) @ 844 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2025/11/04
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.986 W/kg

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

Reference Value = 23.60 V/m; Power Drift = -0.00 dB

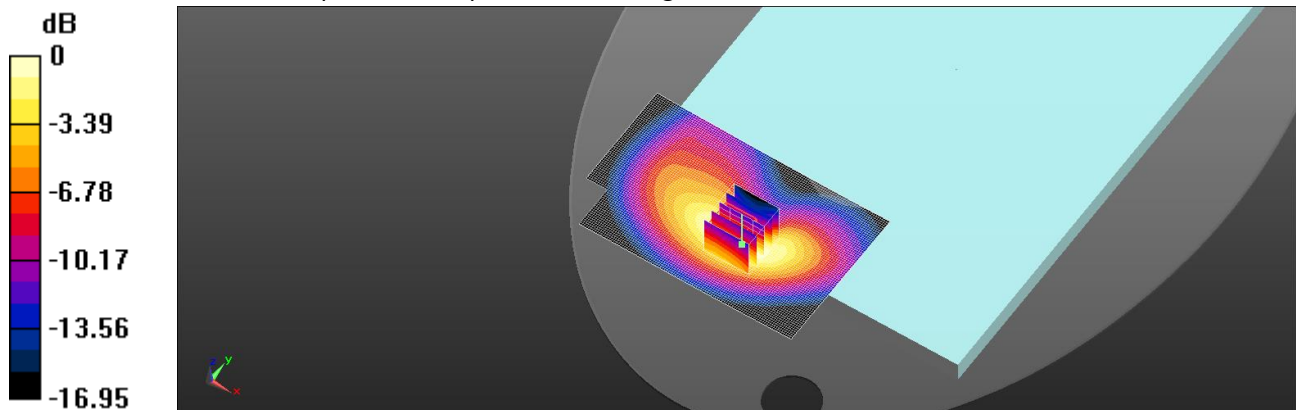
Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.636 W/kg; SAR(10 g) = 0.370 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 0.921 W/kg



0 dB = 0.921 W/kg = -0.36 dBW/kg

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Date: 2026/6/5

ID: 002

Report No. :TESA2605000372ES

LTE Band 12 (10MHz)_Body_Bottom Surface_CH 23095_QPSK_1-0_0mm_Ant 5

Communication System: LTE; Frequency: 707.5 MHz;Duty cycle= 1:1

Medium parameters used: $f = 707.5 \text{ MHz}$; $\sigma = 0.873 \text{ S/m}$; $\epsilon_r = 43.437$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7754; ConvF(8.81, 8.98, 9.5) @ 707.5 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2025/11/04
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.633 W/kg

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

Reference Value = 26.99 V/m; Power Drift = -0.02 dB

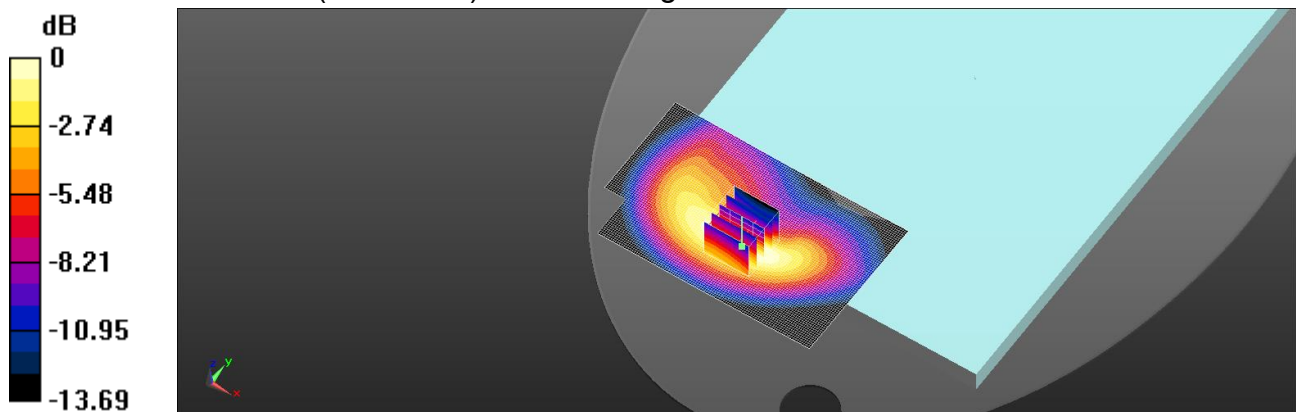
Peak SAR (extrapolated) = 0.718 W/kg

SAR(1 g) = 0.444 W/kg; SAR(10 g) = 0.280 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 64.6%

Maximum value of SAR (measured) = 0.604 W/kg



0 dB = 0.604 W/kg = -2.19 dBW/kg

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Date: 2026/6/5

ID: 003

Report No. :TESA2605000372ES

LTE Band 26_FCC (15MHz)_Body_Bottom Surface_CH 26865_QPSK_1-0_0mm_Ant 5

Communication System: LTE; Frequency: 831.5 MHz;Duty cycle= 1:1

Medium parameters used: $f = 831.5 \text{ MHz}$; $\sigma = 0.901 \text{ S/m}$; $\epsilon_r = 42.857$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7754; ConvF(8.6, 8.77, 9.27) @ 831.5 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2025/11/04
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.859 W/kg

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

Reference Value = 22.29 V/m; Power Drift = -0.04 dB

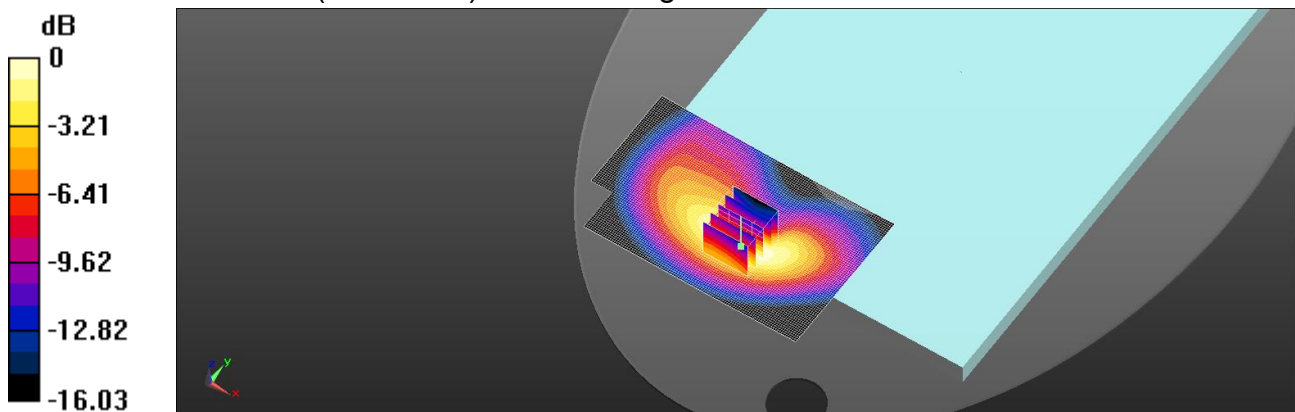
Peak SAR (extrapolated) = 0.965 W/kg

SAR(1 g) = 0.556 W/kg; SAR(10 g) = 0.325 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 60.8%

Maximum value of SAR (measured) = 0.783 W/kg



0 dB = 0.783 W/kg = -1.06 dBW/kg

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12 SAR SYSTEM CHECK RESULTS

Date: 2026/6/5

Report No.: TESA2605000372ES

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.887 \text{ S/m}$; $\epsilon_r = 43.208$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7754; ConvF(8.81, 8.98, 9.5) @ 750 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2025/11/04
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x161x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.43 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.49 V/m; Power Drift = 0.02 dB

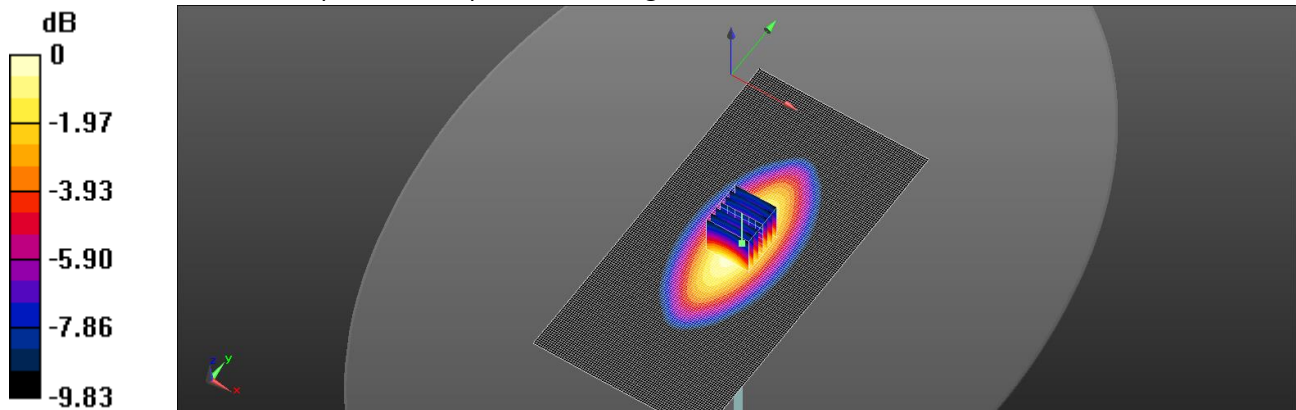
Peak SAR (extrapolated) = 2.81 W/kg

SAR(1 g) = 1.99 W/kg; SAR(10 g) = 1.36 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 69.2%

Maximum value of SAR (measured) = 2.44 W/kg



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Date: 2026/6/5

Report No.: TESA2605000372ES**Dipole 835 MHz_SN:4d063**

Communication System: CW; Frequency: 835 MHz; Duty cycle= 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.905 \text{ S/m}$; $\epsilon_r = 42.825$; $\rho = 1000 \text{ kg/m}^3$

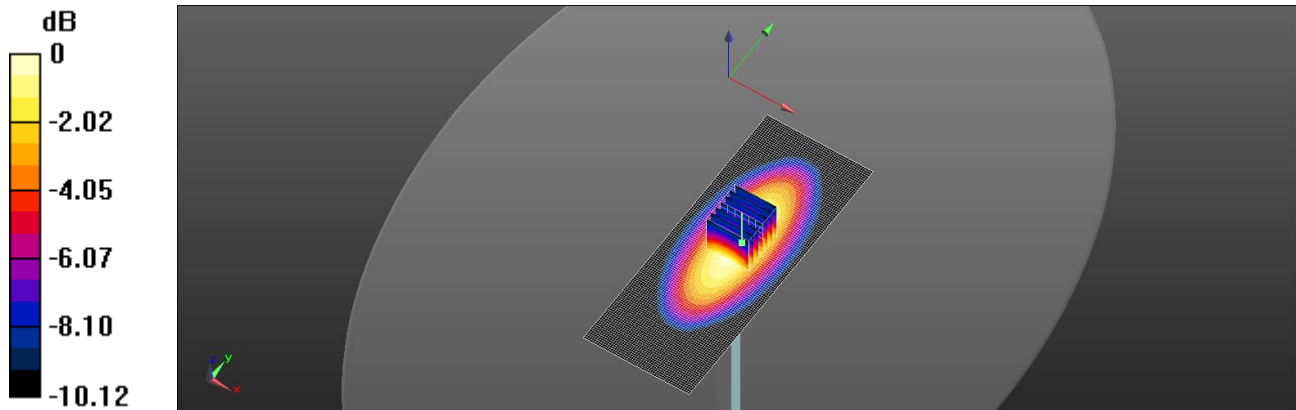
Phantom section: Flat Section

Ambient temperature: 22.7°C ; Liquid temperature: 22.1°C **DASY5 Configuration:**

- Probe: EX3DV4 - SN7754; ConvF(8.6, 8.77, 9.27) @ 835 MHz; Calibrated: 2025/11/28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2025/11/04
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x131x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$ Maximum value of SAR (interpolated) = 2.85 W/kg **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 56.08 V/m ; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.38 W/kg **SAR(1 g) = 2.34 W/kg ; SAR(10 g) = 1.57 W/kg**

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 68.1% Maximum value of SAR (measured) = 2.92 W/kg 0 dB = 2.92 W/kg = 4.64 dBW/kg

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Refer to separated files for the following appendixes.

13.1 SAR_Appendix A Photographs

13.2 SAR_Appendix B DAE & Probe Cal. Certificate

13.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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