

RF Exposure report



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

EUT Description	Wireless module installed in POS Terminal
Brand Name	Cavli Wireless
Model No.	CQS290
Host Model Number:	STICK_401_GEN1
Applicant	Cavli Inc. 99 South Almaden Blvd., Suite 600, San Jose, CA 95113, USA
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	2BB64CQS290NA
Date of EUT Receipt	Sep. 16, 2025
Date of Test(s)	Dec. 17, 2025 ~ Dec. 19, 2025
Date of Issue	Dec. 29, 2025

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
TESA2507000546ES	00	Initial creation of document	Dec. 29, 2025	Kimmy Chiou	

Note:

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

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13.4 SAR_Appendix D Dipole Extended Calibration Verification.....110

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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 941225D07v01r02

KDB 941225D05v02r05

KDB 941225D05Av01r02

KDB 248227D01v02r02

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1.2 Description of EUT

EUT Description	Wireless module installed in POS Terminal	
Brand Name	Cavli Wireless	
Model No.	CQS290	
Host Brand Name	CHASE 	
Host Model Number:	STICK_401_GEN1	
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 2	1850-1910
	LTE FDD Band 4	1710-1755
	LTE FDD Band 5	824-849
	LTE FDD Band 7	2500-2570
	LTE FDD Band 12	699-716
	LTE FDD Band 13	777-787
	LTE FDD Band 25	1850-1915
	LTE FDD Band 66	1710-1780
	802.11 b/g/n	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac	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)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

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1.3 Maximum value

Summary of Maximum SAR and Power Density Value	
Mode	Highest SAR 1g (W/kg)
LTE Band 2 WWAN	1.16
Bluetooth(GFSK)	0.04
2.4G WLAN	0.03
5G WLAN	0.39

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	Test Engineer	Project Manager	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	Ian Tsai	Afu Chen		
		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	-	-		

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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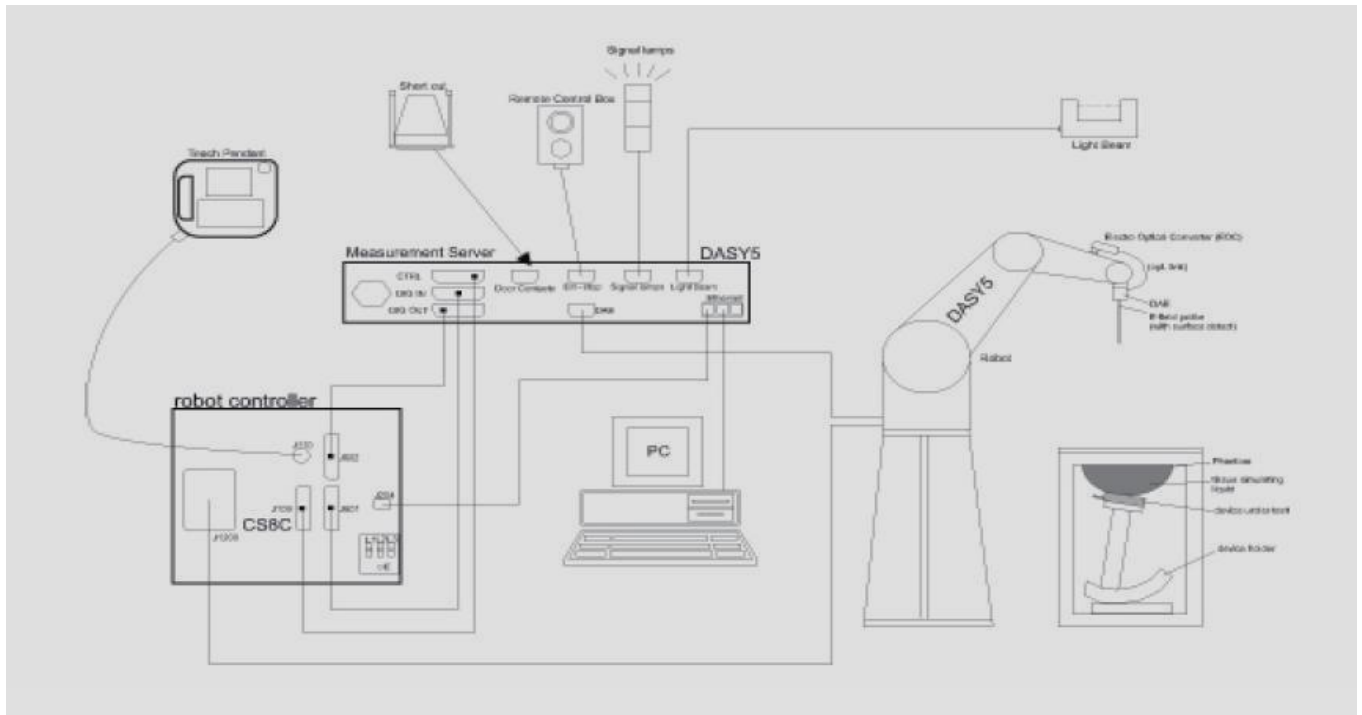
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2.2 SAR System

Block Diagram (DASY5)

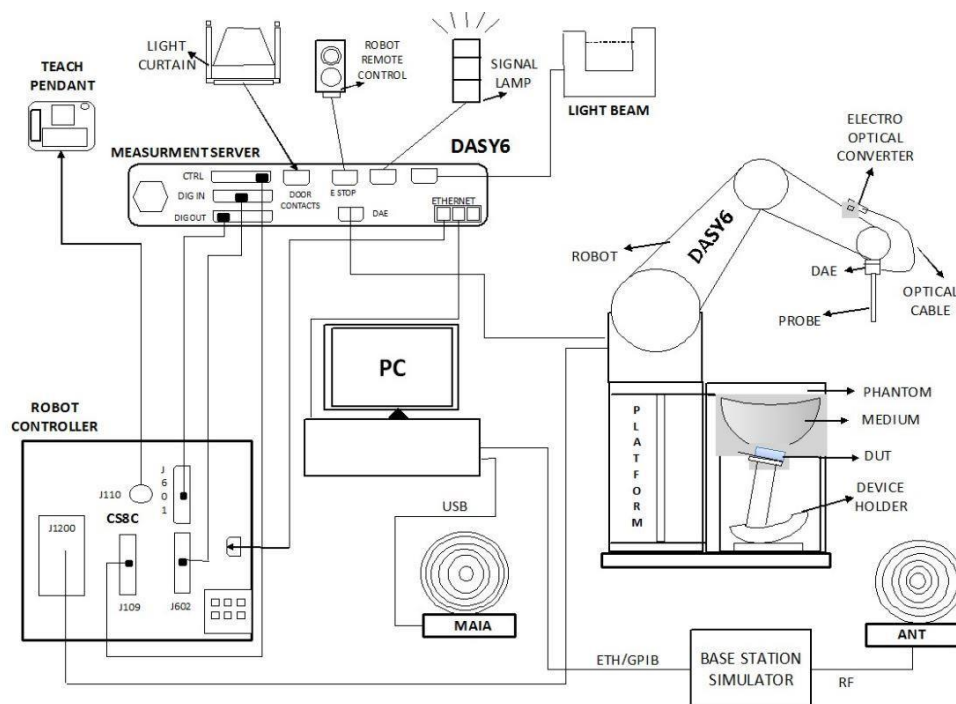
A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation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



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



- A standard high precision 6-axis robot with controller, teach pendant and software.
- An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Windows 10 and the DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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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 750/835/1750/1900/2600/2450/5250/5600/5750 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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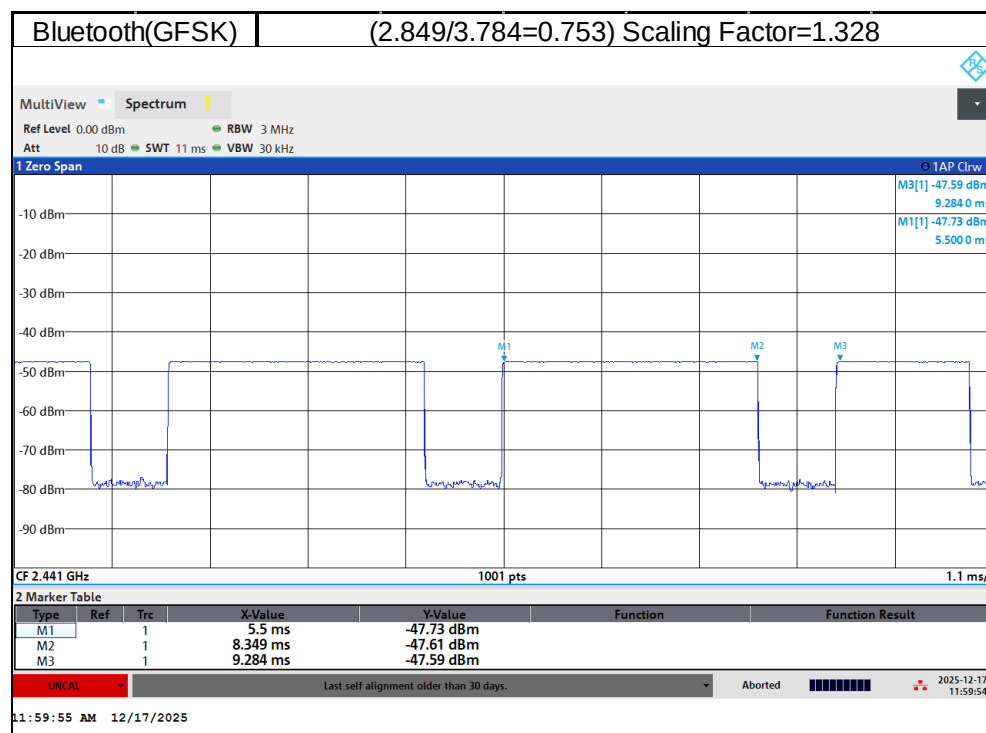
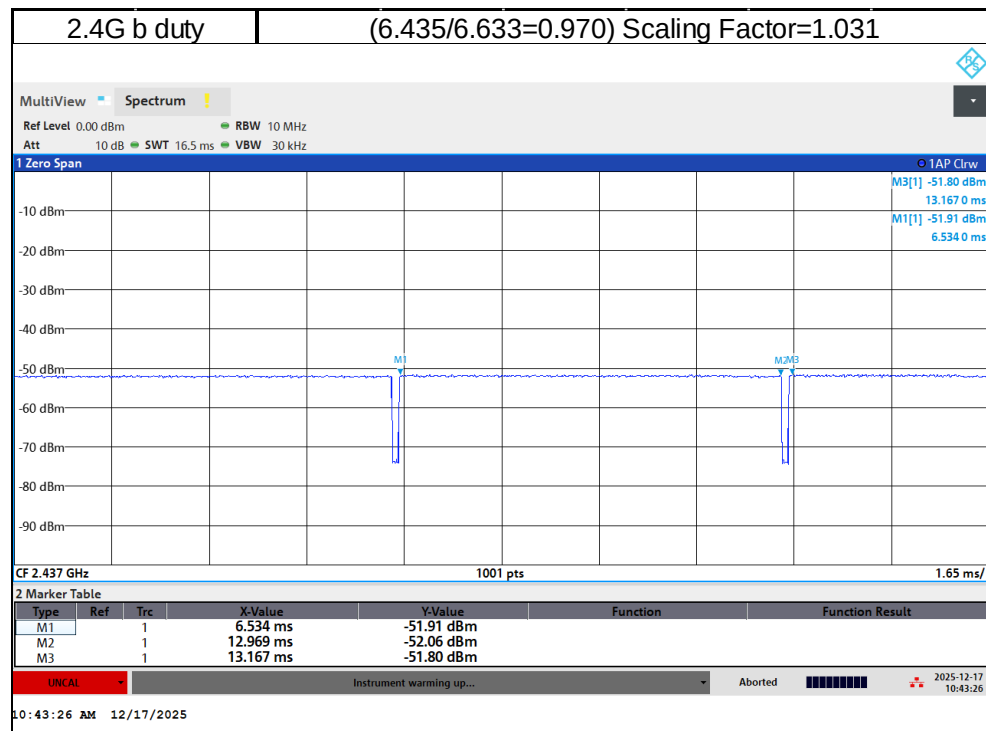
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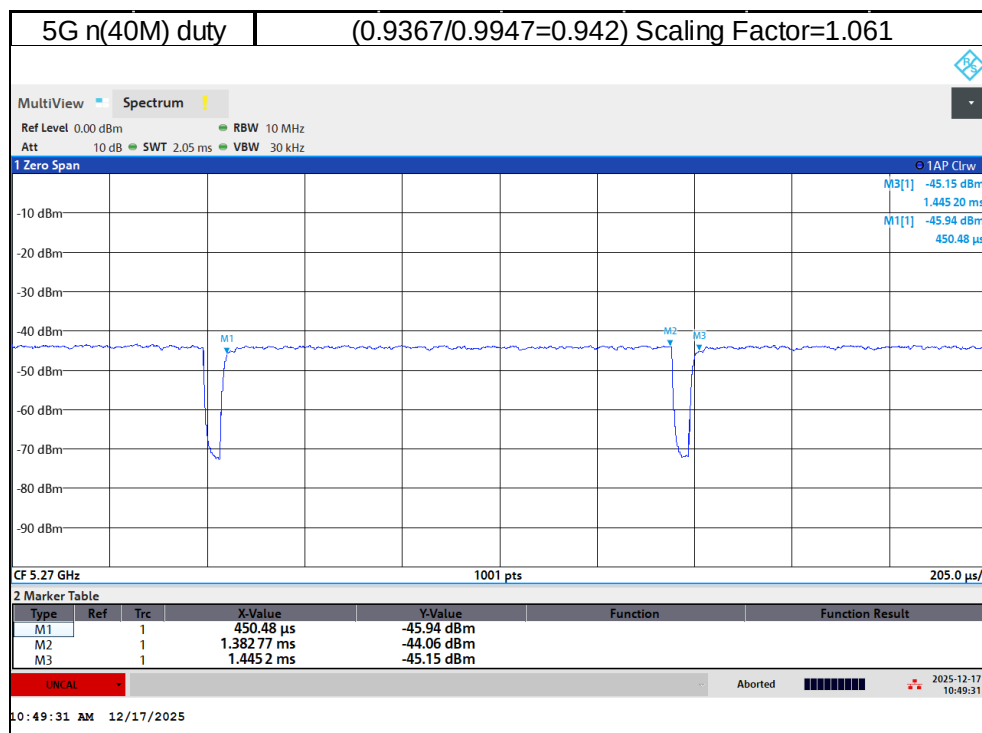
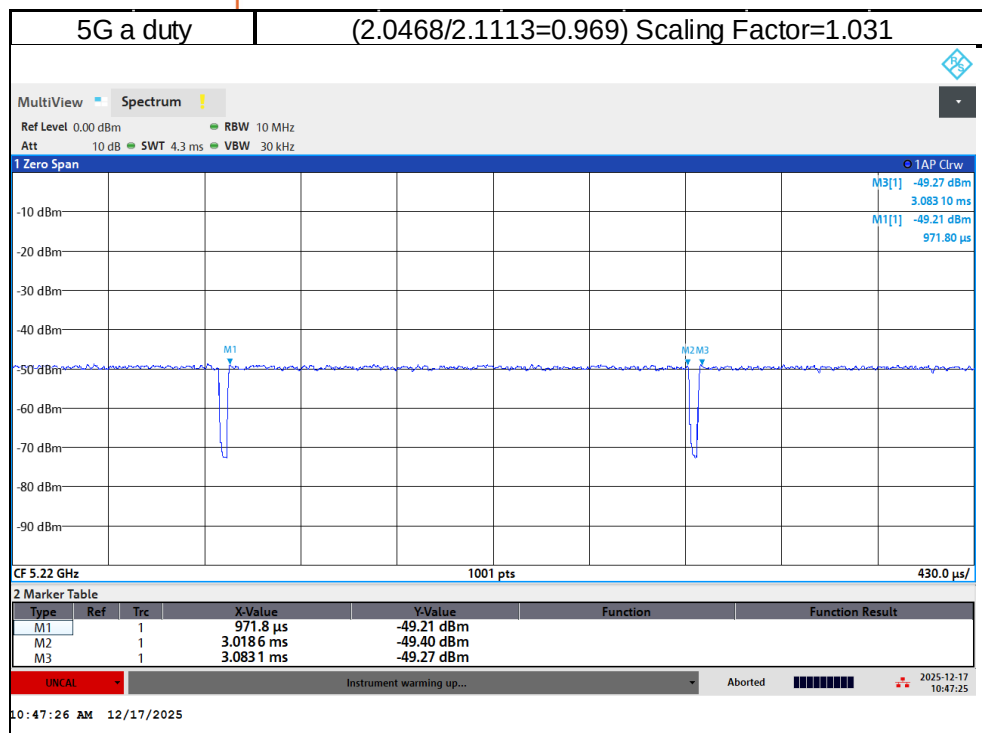
3 DUTY CYCLE



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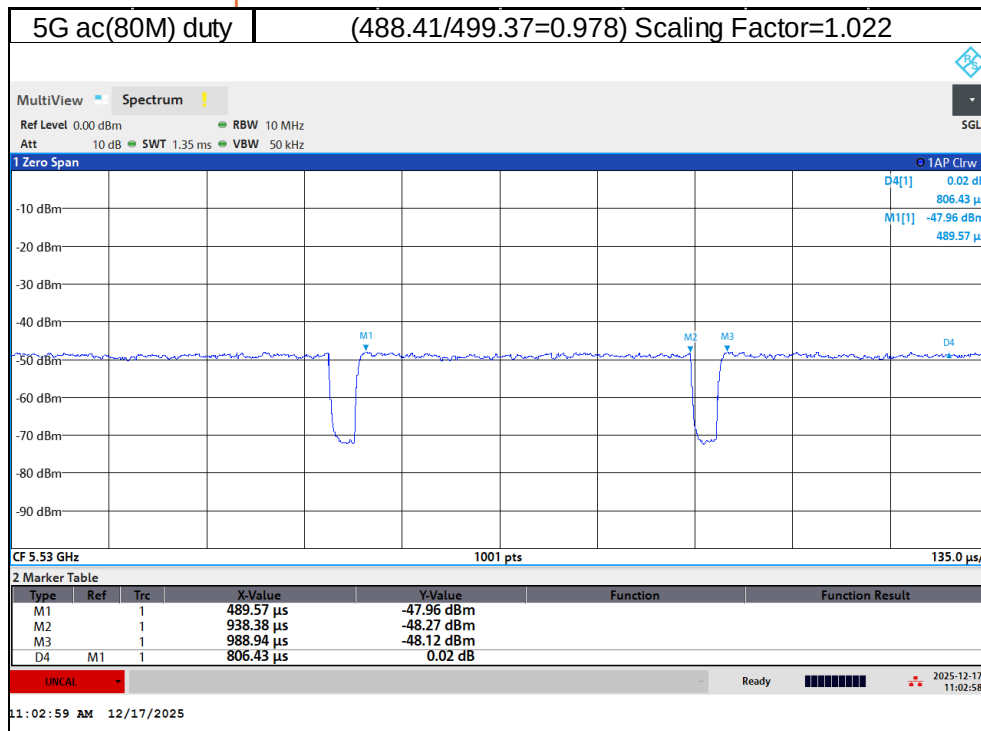
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4 SAR SYSTEM VERIFICATION

4.1 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 reference po the center of the flat phantom to the liquid top surface is larger than 15cm.

4.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAK-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.

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t (886-2) 2299-3279

f (886-2) 2298-0488

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4.3 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
704	42.145	0.887	41.175	0.866	-2.30%	-2.36%	± 5%	Dec. 17, 2025
707.5	42.127	0.887	41.159	0.867	-2.30%	-2.27%	± 5%	Dec. 17, 2025
711	42.108	0.887	41.139	0.868	-2.30%	-2.19%	± 5%	Dec. 17, 2025
750	41.900	0.890	40.927	0.871	-2.32%	-2.13%	± 5%	Dec. 17, 2025
782	41.749	0.894	40.772	0.872	-2.34%	-2.44%	± 5%	Dec. 17, 2025
829	41.528	0.899	40.535	0.881	-2.39%	-2.03%	± 5%	Dec. 17, 2025
835	41.500	0.900	40.501	0.882	-2.41%	-2.00%	± 5%	Dec. 17, 2025
836.5	41.500	0.902	40.499	0.883	-2.41%	-2.06%	± 5%	Dec. 17, 2025
844	41.500	0.910	40.496	0.890	-2.42%	-2.16%	± 5%	Dec. 17, 2025
1720	40.114	1.354	40.486	1.331	0.93%	-1.72%	± 5%	Dec. 17, 2025
1732.5	40.096	1.361	40.414	1.339	0.79%	-1.65%	± 5%	Dec. 17, 2025
1745	40.079	1.369	40.394	1.348	0.79%	-1.50%	± 5%	Dec. 17, 2025
1750	40.071	1.371	40.389	1.350	0.79%	-1.56%	± 5%	Dec. 17, 2025
1770	40.043	1.383	40.367	1.360	0.81%	-1.65%	± 5%	Dec. 17, 2025
1860	40.000	1.400	40.206	1.377	0.52%	-1.64%	± 5%	Dec. 18, 2025
1880	40.000	1.400	40.197	1.388	0.49%	-0.86%	± 5%	Dec. 18, 2025
1882.5	40.000	1.400	40.186	1.389	0.47%	-0.79%	± 5%	Dec. 18, 2025
1900	40.000	1.400	40.177	1.399	0.44%	-0.07%	± 5%	Dec. 18, 2025
1905	40.000	1.400	40.157	1.401	0.39%	0.07%	± 5%	Dec. 18, 2025
2510	39.120	1.864	40.297	1.937	3.01%	3.92%	± 5%	Dec. 18, 2025
2535	39.087	1.891	40.275	1.963	3.04%	3.83%	± 5%	Dec. 18, 2025
2560	39.053	1.917	40.311	1.995	3.22%	4.05%	± 5%	Dec. 18, 2025
2600	39.000	1.960	40.178	2.037	3.02%	3.93%	± 5%	Dec. 18, 2025
2402	39.282	1.757	40.128	1.813	2.15%	3.16%	± 5%	Dec. 18, 2025
2412	39.265	1.766	40.061	1.825	2.03%	3.32%	± 5%	Dec. 18, 2025
2437	39.222	1.788	40.051	1.848	2.11%	3.33%	± 5%	Dec. 18, 2025
2441	39.215	1.792	39.981	1.853	1.95%	3.40%	± 5%	Dec. 18, 2025
2450	39.200	1.800	39.972	1.862	1.97%	3.44%	± 5%	Dec. 18, 2025
2462	39.184	1.813	39.945	1.872	1.94%	3.27%	± 5%	Dec. 18, 2025
2480	39.160	1.832	39.928	1.895	1.96%	3.44%	± 5%	Dec. 18, 2025
5180	36.020	4.639	34.916	4.819	-3.06%	3.87%	± 5%	Dec. 19, 2025
5200	36.000	4.660	34.903	4.839	-3.05%	3.84%	± 5%	Dec. 19, 2025
5220	35.980	4.680	34.889	4.863	-3.03%	3.90%	± 5%	Dec. 19, 2025
5240	35.960	4.700	34.842	4.880	-3.11%	3.82%	± 5%	Dec. 19, 2025
5250	35.950	4.710	34.839	4.895	-3.09%	3.92%	± 5%	Dec. 19, 2025
5270	35.930	4.730	34.801	4.912	-3.14%	3.85%	± 5%	Dec. 19, 2025
5310	35.890	4.770	34.782	4.951	-3.09%	3.79%	± 5%	Dec. 19, 2025
5530	35.605	4.997	34.358	4.931	-3.50%	-1.31%	± 5%	Dec. 19, 2025
5600	35.500	5.070	34.318	4.989	-3.33%	-1.60%	± 5%	Dec. 19, 2025
5610	35.490	5.080	34.293	5.003	-3.37%	-1.52%	± 5%	Dec. 19, 2025
5750	35.350	5.220	34.148	5.132	-3.40%	-1.69%	± 5%	Dec. 19, 2025
5755	35.345	5.225	34.123	5.137	-3.46%	-1.68%	± 5%	Dec. 19, 2025
5795	35.305	5.265	34.104	5.175	-3.40%	-1.71%	± 5%	Dec. 19, 2025

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4.4 The composition of the tissue simulating liquid:

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

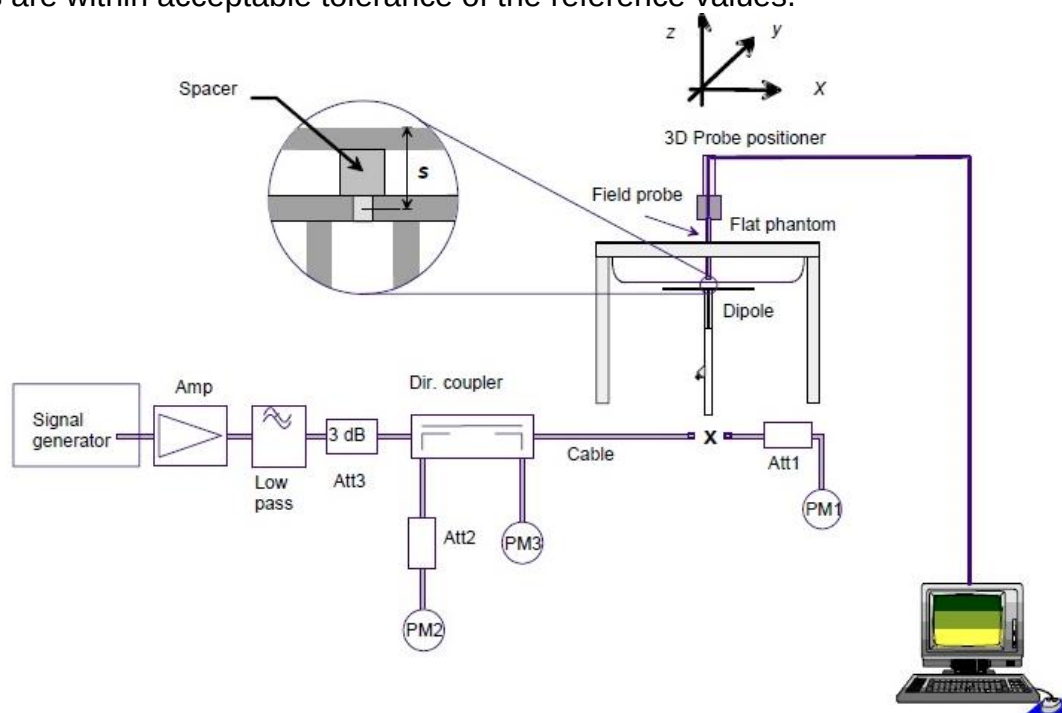
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

4.5 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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4.6 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	2.13	8.52	-0.23	± 10%	Dec.17,2025
D835V2	4d063	835	9.47	2.38	9.52	0.53	± 10%	Dec.17,2025
D1750V2	1008	1750	36.4	9.3	37.2	2.20	± 10%	Dec.17,2025
D1900V2	5d173	1900	39.8	9.04	36.16	-9.15	± 10%	Dec.18,2025
D2600V2	1005	2600	55.3	14	56	1.27	± 10%	Dec.18,2025
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
D2450V2	727	2450	52.6	12.2	48.8	-7.22	± 10%	Dec.18,2025
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1349	5250	80.9	7.88	78.8	-2.60	± 10%	Dec.19,2025
D5GHzV2	1349	5600	82.4	8.12	81.2	-1.46	± 10%	Dec.19,2025
D5GHzV2	1349	5750	80.8	8.28	82.8	2.48	± 10%	Dec.19,2025

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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

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5 TEST CONFIGURATIONS

5.1 Test Environment

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

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

5.2 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 $\leq 100\text{ MHz}$.
- **General:** 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
 - For QPSK with 100% RB allocation, SAR is not required when the highest

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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 tabulated as below.

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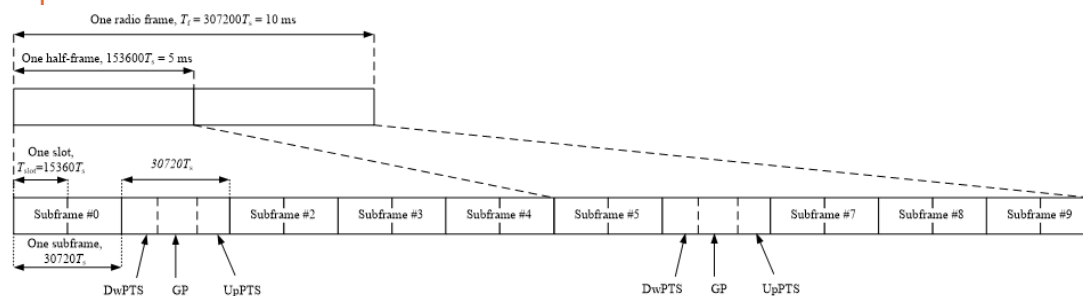


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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%.

- **WLAN 2.4GHz:** 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

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• **WLAN 2.4GHz:** 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

• **WLAN 5GHz:** Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.

• **WLAN 5GHz:** Based on FCC guidance, general principles of KDB248227D01 can be applied to 802.11ax to determine initial test configuration with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency band.

• **Test exclusion for NFC:** Based on KDB447498D01v06 4.3.1 c), SAR test exclusion threshold for NFC (13.56MHz) shall be evaluated as below,
a) For test separation distances ≤ 50 mm, the power threshold determined by the equation in 4.3.1 c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
b) The power threshold at 50mm/100 MHz in 4.3.1 b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ where f is 13.56MHz
c) The power threshold in 4.3.1 b) is $[\text{Power allowed at numeric threshold for 50 mm in 4.3.1 a)} + ((\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150))$ mW, for 100 MHz to 1500 MHz where test separation distance is 50mm, frequency is 100MHz.
d) Power allowed at numeric threshold for 50 mm in 4.3.1 a) is $[3/(f(\text{GHz})^{(1/2)})] \cdot (\text{test separation distance})$

Hence, SAR test exclusion threshold is calculated in reverse sequence:

$$d) : [3/\sqrt{0.1}] \cdot 50 = 474.3416\text{mW}$$

$$c) : 474.3416 + (50-50) \cdot (100/150) = 474.3416\text{mW}$$

$$b) : 474.3416 \cdot [1 + \log(100/13.56)] = 885.9469\text{mW}$$

$$a) : 885.9469 \cdot 0.5 = 442.973\text{mW}$$

Step c):

Frequency (MHz)	E-FIELD dBuV/m	Test Distance (m)	EIRP (dBm)	EIRP (mW)	Threshold (mW)
13.56	11.9	3	-83.25757	0.000000047	442.973

Note:

$$\text{EIRP (dBm)} = (\text{E-FIELD(dBuV/m)} + 20\log(d(\text{m})) - 104.7$$

$$\text{EIRP(mW)} = (10^{(\text{EIRP(dBm)}/10)})$$

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• **Estimated SAR for NFC:** Based on KDB447498D01v06 4.3.2 b), when an antenna qualifies for the standalone SAR test exclusion of 4.3.1 and also transmits simultaneously with other antennas, the standalone SAR value must be estimated according to the following to determine the simultaneous transmission SAR test exclusion criteria:

1) $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [f(\text{GHz})/x]^{(1/2)}$ W/kg, for test separation distances ≤ 50 mm, where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

Using the most conservative test separation distance 5mm, so the estimated 1g-SAR for NFC would be 0.000.

$[0.0000017/5] \cdot [\sqrt{0.01356/7.5}] = 0.00000000528860$ W/kg

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5.3 Test position

SAR test position (5mm)

1-g SAR was tested for all surfaces and side edges with a transmitting antenna located at ≤ 25 mm from that surface or edge, at 5 mm separation from a flat phantom, based on KDB 941225 D07 v01r02.

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5.4 Proximity sensor operation description

The P-sensor being used to reduce output power is capacitive in which when the object such as human body, metal or plastic is being approached, the sensing capacitance would be increased with the antenna pad. Once the capacitance is accumulated, and reached over the threshold as set in MCU of the microchip, the interruption signal is pulled low (High state without trigger) and further inform modem module of the transmitter to make power reduction.

5.4.1 Proximity sensor measurement procedure

1. The proximity sensor is collocated with WWAN antenna.
2. Output power is measured, and monitored by using the base station simulator and power sensor/power meter. A RF cables with sufficient length was being attached from the antenna port of the module, and used for the measurement. The appropriate loss attenuated from cable is compensated in the test setup.



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5.4.2 Trigger distances

Test procedure:

1. The entire back surface or edge of the tablet is positioned below a flat phantom filled with the required tissue equivalent medium and positioned at least 20 mm further than the distance that triggers power reduction.
2. The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.
3. The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom
4. If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.
5. The back surface or edge is then moved back (further away) from the phantom until maximum output power is returned to the normal maximum level.
6. The process is then reversed by moving the tablet away from the phantom to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.
7. The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated.
8. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.
9. For right edge, the worst trigger distance of proximity sensor is 27mm.

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5.4.3 Tilt angle testing

Test procedure:

1. The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in sections 1.6.2 by rotating the tablet around the edge next to the phantom in ≤ 10 deg increments until the tablet is ± 45 deg or more from the vertical position at 0 deg.
2. If sensor triggering is released and normal maximum output power is restored within the ± 45 deg range, the procedures in step 1) should be repeated by reducing the tablet to phantom separation distance by 1 mm until the proximity sensor no longer releases triggering, and maximum output power remains in the reduced mode.
3. The smallest separation distance determined in steps 1) and 2), minus 1 mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance determined in sections 1.6.2, 1.6.3 minus 1 mm should be used in the SAR measurements.
4. The influence of tablet tilt angles to proximity sensor triggering is determined by positioning the right edge.
5. After the tilt angle testing for right edge, the sensor is not released during ± 45 deg, so 25mm was used in the SAR measurements.

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5.4.4 Proximity sensor coverage

The following procedures do not apply and are not required when the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor.

Test procedure:

1. The back surface or edges of the tablet is positioned at a test separation distance less than or equal to the distance required for back surface or edge triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset.
2. The similar sequence of steps applied to determine sensor triggering distance in section 1.6.2 are used to verify back surface and edge sensor coverage by moving the tablet (sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the back surface or edge and the phantom.
3. After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the tablet movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.
4. The process is then repeated from the other direction, at the opposite end of maximum antenna and sensor offset, by rotating the tablet 180 degrees.

Note:

1. The triggering variations and hysteresis effect has been evaluated separately according to the tissue-equivalent medium required for each frequency band, and sensor triggering does not change with different tissue-equivalent media.
2. Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing.

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5.4.5 Operation description for P-sensor

Power Reduction Design Specification (for P-sensor)

With P-sensor mechanism, the maximum reduced power table in chapter 6 would be the default power when P-sensor failure or malfunction.

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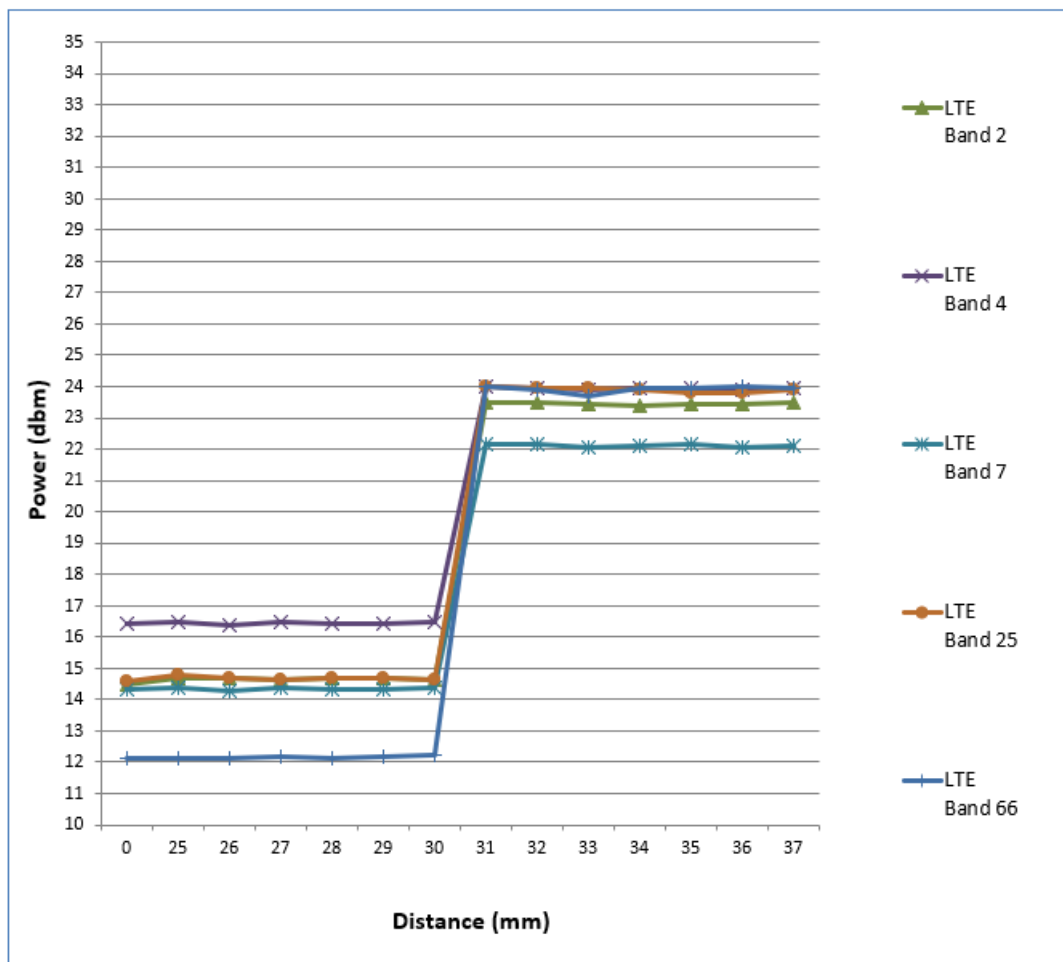
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5.4.6 Results

The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom is tabulated in the following.

Right Edge

Moving device toward the phantom

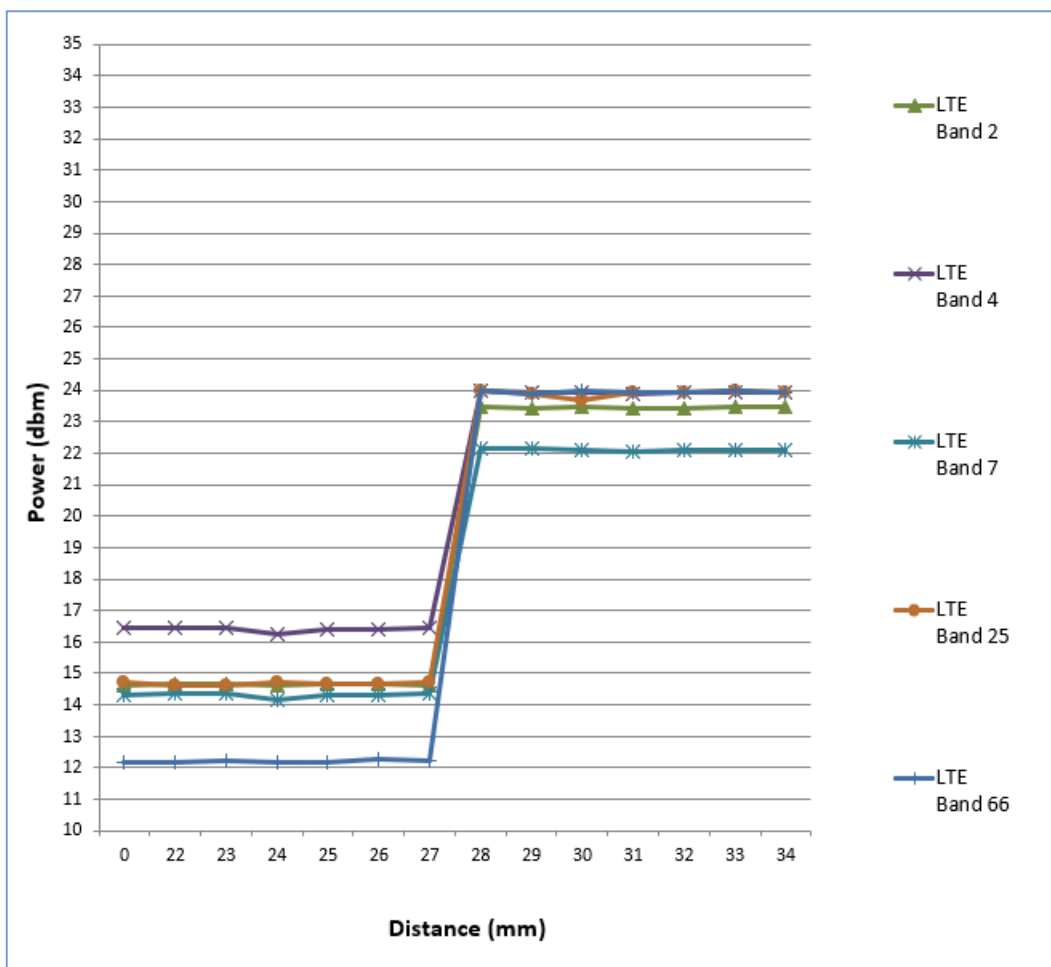


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Moving device away from the phantom



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5.5 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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6 MAXIMUM OUTPUT POWER

6.1 FDD LTE

Full Power

LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1860	1880	1900			
Channel			18700	18900	19100			
20	QPSK	1	0	23.12	23.50	23.33	24.00	0
		1	50	23.03	23.29	23.18	24.00	0
		1	99	22.91	23.45	23.18	24.00	0
		50	0	21.97	22.33	22.14	23.00	1
		50	25	21.98	22.33	22.18	23.00	1
		50	50	21.98	22.39	22.12	23.00	1
		100	0	21.96	22.29	22.17	23.00	1
20	16-QAM	1	0	21.96	22.42	22.11	23.00	1
		1	50	21.88	22.34	22.14	23.00	1
		1	99	22.04	22.27	22.22	23.00	1
		50	0	20.96	21.42	21.17	22.00	2
		50	25	21.03	21.33	21.17	22.00	2
		50	50	21.08	21.33	21.19	22.00	2
		100	0	21.00	21.21	21.16	22.00	2
LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1857.5	1880	1902.5			
Channel			18675	18900	19125			
15	QPSK	1	0	23.00	23.37	23.17	24.00	0
		1	36	22.85	23.19	23.00	24.00	0
		1	74	22.89	23.33	22.97	24.00	0
		36	0	21.82	22.18	22.00	23.00	1
		36	18	21.87	22.21	22.07	23.00	1
		36	37	21.76	22.20	22.10	23.00	1
		75	0	21.92	22.21	22.06	23.00	1
15	16-QAM	1	0	21.92	22.29	22.01	23.00	1
		1	36	21.88	22.21	22.00	23.00	1
		1	74	21.78	22.20	22.08	23.00	1
		36	0	20.88	21.18	20.87	22.00	2
		36	18	20.73	21.15	20.88	22.00	2
		36	37	20.78	21.30	20.93	22.00	2
		75	0	20.86	21.15	20.93	22.00	2

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1855	1880	1905		
Channel				18650	18900	19150		
10	QPSK	1	0	22.88	23.19	23.02	24.00	0
		1	25	22.86	23.03	22.72	24.00	0
		1	49	22.85	23.01	22.92	24.00	0
		25	0	21.76	22.13	21.84	23.00	1
		25	12	21.73	22.13	21.82	23.00	1
		25	25	21.83	22.00	21.93	23.00	1
		50	0	21.69	22.03	21.77	23.00	1
10	16-QAM	1	0	21.63	21.98	21.82	23.00	1
		1	25	21.62	22.00	21.90	23.00	1
		1	49	21.71	21.97	21.92	23.00	1
		25	0	20.70	21.11	20.78	22.00	2
		25	12	20.63	20.98	20.87	22.00	2
		25	25	20.69	20.98	20.82	22.00	2
		50	0	20.64	21.00	20.83	22.00	2
LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1852.5	1880	1907.5		
Channel				18625	18900	19175		
5	QPSK	1	0	22.71	23.07	22.83	24.00	0
		1	12	22.58	22.80	22.67	24.00	0
		1	24	22.62	22.81	22.72	24.00	0
		12	0	21.48	21.82	21.59	23.00	1
		12	6	21.54	21.82	21.66	23.00	1
		12	13	21.44	21.91	21.76	23.00	1
		25	0	21.57	21.92	21.55	23.00	1
5	16-QAM	1	0	21.50	21.80	21.66	23.00	1
		1	12	21.61	21.89	21.56	23.00	1
		1	24	21.68	21.87	21.67	23.00	1
		12	0	20.61	20.94	20.69	22.00	2
		12	6	20.65	20.85	20.70	22.00	2
		12	13	20.68	20.88	20.76	22.00	2
		25	0	20.57	20.89	20.56	22.00	2

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1851.5	1880	1908.5		
Channel				18615	18900	19185		
3	QPSK	1	0	22.64	22.86	22.75	24.00	0
		1	7	22.55	22.73	22.59	24.00	0
		1	14	22.53	22.76	22.62	24.00	0
		8	0	21.48	21.76	21.60	23.00	1
		8	4	21.51	21.60	21.48	23.00	1
		8	7	21.46	21.62	21.60	23.00	1
		15	0	21.49	21.80	21.55	23.00	1
3	16-QAM	1	0	21.46	21.74	21.54	23.00	1
		1	7	21.59	21.75	21.63	23.00	1
		1	14	21.48	21.77	21.58	23.00	1
		8	0	20.49	20.80	20.51	22.00	2
		8	4	20.52	20.69	20.68	22.00	2
		8	7	20.35	20.63	20.73	22.00	2
		15	0	20.51	20.67	20.59	22.00	2
LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1850.7	1880	1909.3		
Channel				18607	18900	19193		
1.4	QPSK	1	0	22.55	22.75	22.62	24.00	0
		1	2	22.38	22.59	22.47	24.00	0
		1	5	22.44	22.68	22.44	24.00	0
		3	0	22.28	22.68	22.41	24.00	0
		3	2	22.37	22.55	22.40	24.00	0
		3	3	22.35	22.67	22.43	24.00	0
		6	0	21.43	21.52	21.35	23.00	1
1.4	16-QAM	1	0	21.43	21.57	21.32	23.00	1
		1	2	21.52	21.59	21.51	23.00	1
		1	5	21.31	21.53	21.36	23.00	1
		3	0	21.42	21.59	21.39	23.00	1
		3	2	21.35	21.62	21.47	23.00	1
		3	3	21.41	21.66	21.47	23.00	1
		6	0	20.34	20.60	20.38	22.00	2

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1720	1732.5	1745		
Channel				20050	20175	20300		
20	QPSK	1	0	23.92	23.94	23.98	24.00	0
		1	50	23.82	23.86	23.84	24.00	0
		1	99	23.69	23.76	23.68	24.00	0
		50	0	22.82	22.88	22.81	23.00	1
		50	25	22.70	22.79	22.79	23.00	1
		50	50	22.75	22.92	22.75	23.00	1
		100	0	22.65	22.75	22.90	23.00	1
20	16-QAM	1	0	22.87	22.72	22.81	23.00	1
		1	50	22.82	22.79	22.76	23.00	1
		1	99	22.79	22.81	22.80	23.00	1
		50	0	21.79	21.78	21.88	22.00	2
		50	25	21.75	21.86	21.82	22.00	2
		50	50	21.85	21.80	21.76	22.00	2
		100	0	21.81	21.81	21.85	22.00	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
Channel				20025	20175	20325		
15	QPSK	1	0	23.73	23.82	23.76	24.00	0
		1	36	23.58	23.62	23.55	24.00	0
		1	74	23.61	23.67	23.50	24.00	0
		36	0	22.54	22.65	22.56	23.00	1
		36	18	22.57	22.70	22.59	23.00	1
		36	37	22.53	22.75	22.67	23.00	1
		75	0	22.52	22.60	22.59	23.00	1
15	16-QAM	1	0	22.56	22.66	22.57	23.00	1
		1	36	22.70	22.65	22.52	23.00	1
		1	74	22.50	22.68	22.62	23.00	1
		36	0	21.55	21.66	21.56	22.00	2
		36	18	21.60	21.70	21.63	22.00	2
		36	37	21.63	21.69	21.56	22.00	2
		75	0	21.63	21.64	21.51	22.00	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)				1715	1732.5	1750		
Channel				20000	20175	20350		
10	QPSK	1	0	23.56	23.71	23.59	24.00	0
		1	25	23.39	23.62	23.43	24.00	0
		1	49	23.40	23.55	23.44	24.00	0
		25	0	22.43	22.51	22.46	23.00	1
		25	12	22.35	22.55	22.49	23.00	1
		25	25	22.42	22.48	22.40	23.00	1
		50	0	22.38	22.60	22.47	23.00	1
10	16-QAM	1	0	22.39	22.50	22.45	23.00	1
		1	25	22.45	22.62	22.39	23.00	1
		1	49	22.49	22.51	22.45	23.00	1
		25	0	21.38	21.47	21.45	22.00	2
		25	12	21.51	21.58	21.41	22.00	2
		25	25	21.30	21.50	21.31	22.00	2
		50	0	21.42	21.63	21.38	22.00	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
Channel				19975	20175	20375		
5	QPSK	1	0	23.39	23.52	23.55	24.00	0
		1	12	23.22	23.37	23.47	24.00	0
		1	24	23.33	23.33	23.46	24.00	0
		12	0	22.20	22.43	22.43	23.00	1
		12	6	22.24	22.38	22.46	23.00	1
		12	13	22.11	22.47	22.34	23.00	1
		25	0	22.20	22.44	22.43	23.00	1
5	16-QAM	1	0	22.23	22.30	22.27	23.00	1
		1	12	22.18	22.34	22.37	23.00	1
		1	24	22.25	22.47	22.33	23.00	1
		12	0	21.37	21.46	21.29	22.00	2
		12	6	21.25	21.43	21.47	22.00	2
		12	13	21.25	21.44	21.41	22.00	2
		25	0	21.09	21.35	21.43	22.00	2

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f (886-2) 2298-0488

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
Channel				19965	20175	20385		
3	QPSK	1	0	23.24	23.25	23.36	24.00	0
		1	7	23.20	23.09	23.12	24.00	0
		1	14	23.06	23.11	23.13	24.00	0
		8	0	22.02	22.20	22.26	23.00	1
		8	4	22.06	22.01	22.22	23.00	1
		8	7	22.11	22.05	22.11	23.00	1
		15	0	22.17	22.05	22.18	23.00	1
3	16-QAM	1	0	22.00	22.09	22.29	23.00	1
		1	7	22.09	22.02	22.10	23.00	1
		1	14	22.10	22.08	22.20	23.00	1
		8	0	21.07	21.04	21.19	22.00	2
		8	4	21.13	21.09	21.23	22.00	2
		8	7	21.16	21.06	21.31	22.00	2
		15	0	21.08	20.99	21.22	22.00	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
Channel				19957	20175	20393		
1.4	QPSK	1	0	23.07	23.08	23.18	24.00	0
		1	2	22.94	22.90	22.96	24.00	0
		1	5	22.95	22.82	23.02	24.00	0
		3	0	22.04	22.04	22.03	24.00	0
		3	2	22.05	22.01	22.09	24.00	0
		3	3	22.05	22.04	22.04	24.00	0
		6	0	21.92	21.99	21.91	23.00	1
1.4	16-QAM	1	0	21.90	21.92	22.03	23.00	1
		1	2	21.97	21.98	22.02	23.00	1
		1	5	21.89	21.79	21.99	23.00	1
		3	0	21.81	21.88	21.95	23.00	1
		3	2	21.83	21.77	21.77	23.00	1
		3	3	21.79	21.79	21.85	23.00	1
		6	0	20.78	20.88	20.97	22.00	2

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f (886-2) 2298-0488

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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)				829	836.5	844		
Channel				20450	20525	20600		
10	QPSK	1	0	22.39	23.41	23.62	24.00	0
		1	25	22.17	23.34	23.46	24.00	0
		1	49	22.24	23.37	23.44	24.00	0
		25	0	21.13	22.27	22.53	23.00	1
		25	12	21.26	22.34	22.42	23.00	1
		25	25	21.22	22.32	22.51	23.00	1
		50	0	21.23	22.30	22.47	23.00	1
10	16-QAM	1	0	21.21	22.21	22.42	23.00	1
		1	25	21.37	22.16	22.45	23.00	1
		1	49	21.22	22.21	22.34	23.00	1
		25	0	20.21	21.35	21.55	22.00	2
		25	12	20.32	21.22	21.41	22.00	2
		25	25	20.27	21.20	21.56	22.00	2
		50	0	20.27	21.28	21.55	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	22.24	23.29	23.50	24.00	0
		1	12	22.13	23.20	23.38	24.00	0
		1	24	22.12	23.13	23.34	24.00	0
		12	0	21.09	22.18	22.31	23.00	1
		12	6	21.13	22.11	22.30	23.00	1
		12	13	21.16	22.10	22.35	23.00	1
		25	0	21.02	22.23	22.35	23.00	1
5	16-QAM	1	0	21.21	22.11	22.38	23.00	1
		1	12	21.07	22.07	22.31	23.00	1
		1	24	21.01	22.13	22.27	23.00	1
		12	0	20.13	21.10	21.42	22.00	2
		12	6	20.09	21.07	21.31	22.00	2
		12	13	20.03	21.16	21.35	22.00	2
		25	0	20.12	21.10	21.41	22.00	2

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f (886-2) 2298-0488

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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	22.22	23.12	23.36	24.00	0
		1	7	22.11	22.98	23.21	24.00	0
		1	14	22.08	22.90	23.09	24.00	0
		8	0	21.04	21.94	22.25	23.00	1
		8	4	21.07	21.94	22.23	23.00	1
		8	7	21.14	21.93	22.22	23.00	1
		15	0	21.07	22.08	22.09	23.00	1
3	16-QAM	1	0	21.08	21.99	22.28	23.00	1
		1	7	21.06	22.01	22.22	23.00	1
		1	14	21.01	22.02	22.25	23.00	1
		8	0	20.06	20.99	21.19	22.00	2
		8	4	20.09	20.90	21.29	22.00	2
		8	7	20.04	20.85	21.06	22.00	2
		15	0	20.03	21.06	21.19	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	22.09	22.93	23.17	24.00	0
		1	2	22.01	22.77	23.02	24.00	0
		1	5	22.14	22.71	22.91	24.00	0
		3	0	22.03	22.78	23.04	24.00	0
		3	2	22.05	22.87	22.99	24.00	0
		3	3	22.08	22.71	23.07	24.00	0
		6	0	21.10	21.67	22.00	23.00	1
1.4	16-QAM	1	0	21.06	21.82	22.00	23.00	1
		1	2	21.11	21.76	22.00	23.00	1
		1	5	21.00	21.79	22.00	23.00	1
		3	0	21.11	21.87	22.06	23.00	1
		3	2	21.00	21.73	21.99	23.00	1
		3	3	21.04	21.84	22.00	23.00	1
		6	0	20.13	20.68	21.01	22.00	2

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2510	2535	2560		
Channel				20850	21100	21350		
20	QPSK	1	0	21.85	21.87	22.16	23.00	0
		1	50	21.81	21.77	22.04	23.00	0
		1	99	21.68	21.63	21.92	23.00	0
		50	0	20.76	20.80	20.98	22.00	1
		50	25	20.74	20.72	20.90	22.00	1
		50	50	20.74	20.62	20.92	22.00	1
		100	0	20.74	20.61	21.03	22.00	1
20	16-QAM	1	0	20.70	20.74	21.00	22.00	1
		1	50	20.72	20.63	20.96	22.00	1
		1	99	20.68	20.65	21.03	22.00	1
		50	0	19.62	19.76	20.10	21.00	2
		50	25	19.73	19.65	20.02	21.00	2
		50	50	19.59	19.72	19.89	21.00	2
		100	0	19.73	19.83	19.95	21.00	2
LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	21.70	21.70	21.97	23.00	0
		1	36	21.42	21.57	21.87	23.00	0
		1	74	21.44	21.53	21.86	23.00	0
		36	0	20.54	20.52	20.75	22.00	1
		36	18	20.53	20.52	20.81	22.00	1
		36	37	20.62	20.43	20.89	22.00	1
		75	0	20.52	20.53	20.93	22.00	1
15	16-QAM	1	0	20.60	20.60	20.81	22.00	1
		1	36	20.54	20.55	20.93	22.00	1
		1	74	20.56	20.47	20.76	22.00	1
		36	0	19.48	19.45	19.93	21.00	2
		36	18	19.61	19.47	19.92	21.00	2
		36	37	19.52	19.55	19.78	21.00	2
		75	0	19.59	19.48	19.78	21.00	2

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f (886-2) 2298-0488

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2505	2535	2565		
Channel				20800	21100	21400		
10	QPSK	1	0	21.48	21.49	21.79	23.00	0
		1	25	21.37	21.29	21.62	23.00	0
		1	49	21.37	21.21	21.64	23.00	0
		25	0	20.33	20.33	20.55	22.00	1
		25	12	20.39	20.21	20.56	22.00	1
		25	25	20.23	20.27	20.69	22.00	1
		50	0	20.33	20.25	20.66	22.00	1
10	16-QAM	1	0	20.40	20.30	20.60	22.00	1
		1	25	20.34	20.27	20.62	22.00	1
		1	49	20.28	20.35	20.69	22.00	1
		25	0	19.24	19.23	19.63	21.00	2
		25	12	19.30	19.25	19.59	21.00	2
		25	25	19.35	19.33	19.65	21.00	2
		50	0	19.32	19.37	19.65	21.00	2
LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	21.42	21.35	21.69	23.00	0
		1	12	21.21	21.28	21.51	23.00	0
		1	24	21.15	21.12	21.45	23.00	0
		12	0	20.24	20.27	20.64	22.00	1
		12	6	20.30	20.21	20.59	22.00	1
		12	13	20.35	20.18	20.59	22.00	1
		25	0	20.25	20.14	20.55	22.00	1
5	16-QAM	1	0	20.21	20.18	20.54	22.00	1
		1	12	20.24	20.09	20.62	22.00	1
		1	24	20.23	20.20	20.51	22.00	1
		12	0	19.24	19.16	19.44	21.00	2
		12	6	19.15	19.14	19.55	21.00	2
		12	13	19.32	19.14	19.55	21.00	2
		25	0	19.15	19.27	19.53	21.00	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	22.89	22.78	23.08	24.00	0
		1	25	22.68	22.61	22.97	24.00	0
		1	49	22.70	22.60	22.85	24.00	0
		25	0	21.80	21.61	21.93	23.00	1
		25	12	21.75	21.54	21.80	23.00	1
		25	25	21.74	21.60	21.95	23.00	1
		50	0	21.65	21.58	21.87	23.00	1
10	16-QAM	1	0	21.70	21.59	21.95	23.00	1
		1	25	21.67	21.64	21.93	23.00	1
		1	49	21.68	21.53	21.90	23.00	1
		25	0	20.74	20.62	20.96	22.00	2
		25	12	20.68	20.68	20.88	22.00	2
		25	25	20.65	20.68	20.86	22.00	2
		50	0	20.63	20.58	21.01	22.00	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	22.84	22.54	22.95	24.00	0
		1	12	22.64	22.34	22.75	24.00	0
		1	24	22.71	22.36	22.74	24.00	0
		12	0	21.71	21.38	21.72	23.00	1
		12	6	21.68	21.32	21.81	23.00	1
		12	13	21.68	21.50	21.72	23.00	1
		25	0	21.58	21.49	21.85	23.00	1
5	16-QAM	1	0	21.56	21.37	21.73	23.00	1
		1	12	21.78	21.45	21.88	23.00	1
		1	24	21.70	21.42	21.77	23.00	1
		12	0	20.68	20.34	20.77	22.00	2
		12	6	20.66	20.41	20.77	22.00	2
		12	13	20.73	20.44	20.75	22.00	2
		25	0	20.66	20.50	20.78	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)				700.5	707.5	714.5		
Channel				23025	23095	23165		
3	QPSK	1	0	22.73	22.43	22.81	24.00	0
		1	7	22.59	22.31	22.74	24.00	0
		1	14	22.67	22.34	22.64	24.00	0
		8	0	21.63	21.29	21.60	23.00	1
		8	4	21.56	21.25	21.74	23.00	1
		8	7	21.45	21.24	21.56	23.00	1
		15	0	21.67	21.26	21.58	23.00	1
3	16-QAM	1	0	21.66	21.17	21.73	23.00	1
		1	7	21.62	21.27	21.62	23.00	1
		1	14	21.68	21.29	21.64	23.00	1
		8	0	20.55	20.33	20.74	22.00	2
		8	4	20.66	20.31	20.59	22.00	2
		8	7	20.55	20.15	20.64	22.00	2
		15	0	20.66	20.33	20.63	22.00	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	22.59	22.19	22.69	24.00	0
		1	2	22.39	22.18	22.55	24.00	0
		1	5	22.53	22.03	22.53	24.00	0
		3	0	22.38	22.11	22.54	24.00	0
		3	2	22.35	22.02	22.44	24.00	0
		3	3	22.54	22.03	22.41	24.00	0
		6	0	21.45	21.10	21.57	23.00	1
1.4	16-QAM	1	0	21.50	21.12	21.60	23.00	1
		1	2	21.46	21.10	21.50	23.00	1
		1	5	21.31	21.05	21.56	23.00	1
		3	0	21.39	21.08	21.48	23.00	1
		3	2	21.46	21.02	21.63	23.00	1
		3	3	21.33	21.09	21.60	23.00	1
		6	0	20.47	20.34	20.61	22.00	2

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LTE Band 13								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				782				
Channel				23230				
10	QPSK	1	0		23.15		25.00	0
		1	25		23.12		25.00	0
		1	49		23.09		25.00	0
		25	0		22.12		24.00	1
		25	12		22.06		24.00	1
		25	25		22.00		24.00	1
		50	0		22.11		24.00	1
10	16-QAM	1	0		22.12		24.00	1
		1	25		22.08		24.00	1
		1	49		22.15		24.00	1
		25	0		21.02		23.00	2
		25	12		21.18		23.00	2
		25	25		21.07		23.00	2
		50	0		21.18		23.00	2
LTE Band 13								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			779.5	782	784.5			
Channel			23205	23230	23255			
5	QPSK	1	0	23.05	23.07	23.09	25.00	0
		1	12	23.02	23.01	23.13	25.00	0
		1	24	23.09	23.04	23.04	25.00	0
		12	0	22.16	22.28	22.12	24.00	1
		12	6	22.03	22.08	22.16	24.00	1
		12	13	22.16	22.09	22.09	24.00	1
		25	0	22.02	22.07	22.01	24.00	1
5	16-QAM	1	0	22.03	22.02	22.18	24.00	1
		1	12	22.13	22.05	22.03	24.00	1
		1	24	22.12	22.17	22.22	24.00	1
		12	0	21.25	21.13	21.00	23.00	2
		12	6	21.03	21.10	21.15	23.00	2
		12	13	22.17	21.11	21.26	23.00	2
		25	0	21.06	21.08	21.02	23.00	2

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1860	1882.5	1905		
Channel				26140	26365	26590		
20	QPSK	1	0	23.00	23.24	23.99	24.00	0
		1	50	22.87	23.06	23.94	24.00	0
		1	99	22.89	23.06	23.84	24.00	0
		50	0	21.85	22.01	22.74	23.00	1
		50	25	21.82	22.08	22.80	23.00	1
		50	50	21.75	22.13	22.79	23.00	1
		100	0	21.87	22.01	22.86	23.00	1
20	16-QAM	1	0	21.85	22.16	22.79	23.00	1
		1	50	21.90	22.07	22.82	23.00	1
		1	99	21.79	22.01	22.85	23.00	1
		50	0	20.92	21.10	21.83	22.00	2
		50	25	20.89	21.07	21.83	22.00	2
		50	50	20.77	21.17	21.96	22.00	2
		100	0	20.95	21.13	21.80	22.00	2
LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
Channel				26115	26365	26615		
15	QPSK	1	0	22.89	23.06	23.74	24.00	0
		1	36	22.87	22.80	23.46	24.00	0
		1	74	22.61	22.81	23.61	24.00	0
		36	0	21.66	21.84	22.48	23.00	1
		36	18	21.86	21.91	22.63	23.00	1
		36	37	21.59	21.90	22.53	23.00	1
		75	0	21.65	21.90	22.49	23.00	1
15	16-QAM	1	0	21.73	21.91	22.65	23.00	1
		1	36	21.78	21.77	22.69	23.00	1
		1	74	21.82	21.91	22.67	23.00	1
		36	0	20.71	20.78	21.67	22.00	2
		36	18	20.69	20.89	21.72	22.00	2
		36	37	20.68	20.92	21.51	22.00	2
		75	0	20.74	21.00	21.56	22.00	2

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1882.5	1910			
Channel			26090	26365	26640			
10	QPSK	1	0	22.73	22.92	23.50	24.00	0
		1	25	22.59	22.74	23.22	24.00	0
		1	49	22.55	22.68	23.33	24.00	0
		25	0	21.60	21.78	22.31	23.00	1
		25	12	21.69	21.78	22.38	23.00	1
		25	25	21.57	21.75	22.36	23.00	1
		50	0	21.58	21.85	22.22	23.00	1
10	16-QAM	1	0	21.46	21.66	22.32	23.00	1
		1	25	21.55	21.86	22.33	23.00	1
		1	49	21.55	21.77	22.32	23.00	1
		25	0	20.62	20.74	21.41	22.00	2
		25	12	20.61	20.77	21.37	22.00	2
		25	25	20.50	20.72	21.30	22.00	2
		50	0	20.54	20.73	21.39	22.00	2
LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1852.5	1882.5	1912.5			
Channel			26065	26365	26665			
5	QPSK	1	0	22.58	22.82	23.32	24.00	0
		1	12	22.35	22.78	23.27	24.00	0
		1	24	22.39	22.63	23.03	24.00	0
		12	0	21.40	21.72	22.19	23.00	1
		12	6	21.43	21.71	22.15	23.00	1
		12	13	21.41	21.66	22.16	23.00	1
		25	0	21.34	21.64	22.21	23.00	1
5	16-QAM	1	0	21.52	21.58	22.16	23.00	1
		1	12	21.31	21.64	22.12	23.00	1
		1	24	21.30	21.67	22.19	23.00	1
		12	0	20.50	20.66	21.22	22.00	2
		12	6	20.33	20.61	21.21	22.00	2
		12	13	20.37	20.70	21.17	22.00	2
		25	0	20.36	20.60	21.09	22.00	2

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f (886-2) 2298-0488

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1851.5	1882.5	1913.5		
Channel				26055	26365	26675		
3	QPSK	1	0	22.36	22.55	23.16	24.00	0
		1	7	22.14	22.42	22.99	24.00	0
		1	14	22.17	22.44	22.94	24.00	0
		8	0	21.15	21.39	21.92	23.00	1
		8	4	21.23	21.33	21.86	23.00	1
		8	7	21.09	21.38	21.96	23.00	1
		15	0	21.27	21.35	22.03	23.00	1
3	16-QAM	1	0	21.23	21.38	21.95	23.00	1
		1	7	21.21	21.39	22.02	23.00	1
		1	14	21.33	21.40	21.92	23.00	1
		8	0	20.21	20.31	20.92	22.00	2
		8	4	20.14	20.41	21.01	22.00	2
		8	7	20.26	20.51	20.94	22.00	2
		15	0	20.18	20.46	21.07	22.00	2
LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1850.7	1882.5	1914.3		
Channel				26047	26365	26683		
1.4	QPSK	1	0	22.17	22.46	22.88	24.00	0
		1	2	22.21	22.23	22.69	24.00	0
		1	5	22.02	22.33	22.71	24.00	0
		3	0	22.01	22.29	22.75	24.00	0
		3	2	22.04	22.41	22.80	24.00	0
		3	3	22.01	22.37	22.74	24.00	0
		6	0	21.02	21.26	21.70	23.00	1
1.4	16-QAM	1	0	21.00	21.27	21.77	23.00	1
		1	2	21.01	21.20	21.80	23.00	1
		1	5	21.04	21.22	21.84	23.00	1
		3	0	21.08	21.30	21.74	23.00	1
		3	2	22.37	21.33	21.75	23.00	1
		3	3	21.03	21.35	21.81	23.00	1
		6	0	20.11	20.30	20.73	22.00	2

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1720	1745	1770			
Channel			132072	132322	132572			
20	QPSK	1	0	23.97	23.98	23.99	24.00	0
		1	50	23.85	23.90	23.82	24.00	0
		1	99	23.88	23.86	23.92	24.00	0
		50	0	22.83	22.78	22.95	23.00	1
		50	25	22.83	22.85	22.75	23.00	1
		50	50	22.75	22.88	22.80	23.00	1
		100	0	22.74	22.91	22.92	23.00	1
20	16-QAM	1	0	22.90	22.82	22.78	23.00	1
		1	50	22.80	22.80	22.81	23.00	1
		1	99	22.77	22.88	22.79	23.00	1
		50	0	21.87	21.81	21.91	22.00	2
		50	25	21.82	21.75	21.83	22.00	2
		50	50	21.77	21.93	21.76	22.00	2
		100	0	21.75	21.81	21.90	22.00	2
LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1717.5	1745	1772.5			
Channel			132047	132322	132597			
15	QPSK	1	0	23.74	23.78	23.78	24.00	0
		1	36	23.55	23.68	23.71	24.00	0
		1	74	23.67	23.62	23.67	24.00	0
		36	0	22.61	22.76	22.62	23.00	1
		36	18	22.69	22.65	22.62	23.00	1
		36	37	22.47	22.56	22.65	23.00	1
		75	0	22.65	22.56	22.52	23.00	1
15	16-QAM	1	0	22.54	22.60	22.69	23.00	1
		1	36	22.51	22.66	22.61	23.00	1
		1	74	22.48	22.60	22.63	23.00	1
		36	0	21.59	21.64	21.73	22.00	2
		36	18	21.48	21.74	21.66	22.00	2
		36	37	21.54	21.61	21.55	22.00	2
		75	0	21.50	21.60	21.59	22.00	2

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f (886-2) 2298-0488

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1745	1775		
Channel				132022	132322	132622		
10	QPSK	1	0	23.60	23.58	23.70	24.00	0
		1	25	23.43	23.37	23.57	24.00	0
		1	49	23.43	23.55	23.42	24.00	0
		25	0	22.42	22.46	22.50	23.00	1
		25	12	22.50	22.40	22.56	23.00	1
		25	25	22.44	22.41	22.54	23.00	1
		50	0	22.55	22.32	22.55	23.00	1
10	16-QAM	1	0	22.42	22.36	22.54	23.00	1
		1	25	22.52	22.50	22.62	23.00	1
		1	49	22.43	22.42	22.52	23.00	1
		25	0	21.45	21.32	21.52	22.00	2
		25	12	21.37	21.41	21.68	22.00	2
		25	25	21.34	21.40	21.48	22.00	2
		50	0	21.43	21.48	21.51	22.00	2
LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1712.5	1745	1777.5		
Channel				131997	132322	132647		
5	QPSK	1	0	23.57	23.42	23.57	24.00	0
		1	12	23.38	23.25	23.42	24.00	0
		1	24	23.42	23.28	23.42	24.00	0
		12	0	22.46	22.25	22.39	23.00	1
		12	6	22.44	22.27	22.27	23.00	1
		12	13	22.44	22.22	22.44	23.00	1
		25	0	22.47	22.32	22.33	23.00	1
5	16-QAM	1	0	22.50	22.31	22.53	23.00	1
		1	12	22.36	22.17	22.28	23.00	1
		1	24	22.46	22.35	22.40	23.00	1
		12	0	21.38	21.23	21.45	22.00	2
		12	6	21.32	21.37	21.37	22.00	2
		12	13	21.45	21.15	21.36	22.00	2
		25	0	21.32	21.28	21.50	22.00	2

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f (886-2) 2298-0488

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1745	1778.5		
Channel				131987	132322	132657		
3	QPSK	1	0	23.31	23.28	23.34	24.00	0
		1	7	23.13	23.13	23.09	24.00	0
		1	14	23.07	23.19	23.17	24.00	0
		8	0	22.20	22.08	22.12	23.00	1
		8	4	22.17	22.12	22.28	23.00	1
		8	7	22.11	22.04	22.20	23.00	1
		15	0	22.20	22.10	22.21	23.00	1
3	16-QAM	1	0	22.20	22.21	22.22	23.00	1
		1	7	22.18	22.05	22.13	23.00	1
		1	14	22.16	22.04	22.17	23.00	1
		8	0	21.15	21.08	21.18	22.00	2
		8	4	21.22	21.11	21.16	22.00	2
		8	7	21.08	21.05	21.23	22.00	2
		15	0	21.16	21.04	21.21	22.00	2
LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1745	1779.3		
Channel				131979	132322	132665		
1.4	QPSK	1	0	23.04	23.14	23.19	24.00	0
		1	2	22.87	23.00	22.94	24.00	0
		1	5	22.83	23.03	22.92	24.00	0
		3	0	22.88	23.05	23.14	24.00	0
		3	2	22.95	22.92	23.03	24.00	0
		3	3	22.97	22.94	22.98	24.00	0
		6	0	21.86	22.00	22.07	23.00	1
1.4	16-QAM	1	0	21.93	21.90	21.99	23.00	1
		1	2	21.78	22.04	22.10	23.00	1
		1	5	21.81	22.05	22.03	23.00	1
		3	0	21.94	21.99	22.06	23.00	1
		3	2	21.84	21.99	21.99	23.00	1
		3	3	21.80	21.93	22.06	23.00	1
		6	0	20.84	20.93	21.00	22.00	2

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Reduced Power

LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1860	1880	1900		
Channel				18700	18900	19100		
20	QPSK	1	0	13.96	14.70	14.63	15.00	0
		1	50	13.69	14.42	14.53	15.00	0
		1	99	13.75	14.50	14.41	15.00	0
		50	0	12.82	13.55	13.40	14.00	1
		50	25	12.87	13.46	13.48	14.00	1
		50	50	12.78	13.49	13.34	14.00	1
		100	0	12.81	13.60	13.35	14.00	1
20	16-QAM	1	0	12.86	13.52	13.51	14.00	1
		1	50	12.83	13.52	13.52	14.00	1
		1	99	12.75	13.51	13.58	14.00	1
		50	0	11.74	12.62	12.36	13.00	2
		50	25	11.86	12.51	12.44	13.00	2
		50	50	11.84	12.58	12.60	13.00	2
		100	0	11.82	12.54	12.56	13.00	2
LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1857.5	1880	1902.5		
Channel				18675	18900	19125		
15	QPSK	1	0	13.84	14.01	14.53	15.00	0
		1	36	13.83	14.59	14.51	15.00	0
		1	74	13.74	14.49	14.50	15.00	0
		36	0	12.78	13.57	13.36	14.00	1
		36	18	12.80	13.60	13.51	14.00	1
		36	37	12.86	13.46	13.41	14.00	1
		75	0	12.81	13.62	13.44	14.00	1
15	16-QAM	1	0	12.84	13.59	13.47	14.00	1
		1	36	12.91	13.56	13.44	14.00	1
		1	74	12.91	13.48	13.53	14.00	1
		36	0	11.85	12.63	12.48	13.00	2
		36	18	11.81	12.65	12.43	13.00	2
		36	37	11.78	12.61	12.37	13.00	2
		75	0	11.83	12.41	12.52	13.00	2

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1855	1880	1905		
Channel				18650	18900	19150		
10	QPSK	1	0	13.93	14.54	14.46	15.00	0
		1	25	13.92	14.53	14.39	15.00	0
		1	49	13.81	14.49	14.39	15.00	0
		25	0	12.82	13.54	13.56	14.00	1
		25	12	12.83	13.63	13.50	14.00	1
		25	25	12.88	13.54	13.50	14.00	1
		50	0	12.80	13.59	13.44	14.00	1
10	16-QAM	1	0	12.85	13.58	13.50	14.00	1
		1	25	12.81	13.59	13.49	14.00	1
		1	49	12.81	13.57	13.51	14.00	1
		25	0	11.70	12.52	12.59	13.00	2
		25	12	11.79	12.67	12.44	13.00	2
		25	25	11.84	12.57	12.46	13.00	2
		50	0	11.77	12.58	12.51	13.00	2
LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1852.5	1880	1907.5		
Channel				18625	18900	19175		
5	QPSK	1	0	13.71	14.51	14.52	15.00	0
		1	12	13.84	14.56	14.44	15.00	0
		1	24	13.86	14.47	14.44	15.00	0
		12	0	12.80	13.54	13.43	14.00	1
		12	6	12.74	13.56	13.46	14.00	1
		12	13	12.72	13.56	13.58	14.00	1
		25	0	12.84	13.51	13.53	14.00	1
5	16-QAM	1	0	12.89	13.49	13.46	14.00	1
		1	12	12.72	13.60	13.47	14.00	1
		1	24	12.71	13.66	13.56	14.00	1
		12	0	11.80	12.60	12.52	13.00	2
		12	6	11.77	12.45	12.44	13.00	2
		12	13	11.86	12.49	12.54	13.00	2
		25	0	11.75	12.58	12.45	13.00	2

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f (886-2) 2298-0488

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1851.5	1880	1908.5		
Channel				18615	18900	19185		
3	QPSK	1	0	13.85	14.56	14.35	15.00	0
		1	7	13.86	14.51	14.47	15.00	0
		1	14	13.80	14.56	14.45	15.00	0
		8	0	12.84	13.59	13.46	14.00	1
		8	4	12.73	13.55	13.43	14.00	1
		8	7	12.84	13.52	13.44	14.00	1
		15	0	12.69	13.55	13.51	14.00	1
3	16-QAM	1	0	12.77	13.48	13.42	14.00	1
		1	7	12.71	13.62	13.54	14.00	1
		1	14	12.83	13.53	13.42	14.00	1
		8	0	11.86	12.61	12.33	13.00	2
		8	4	11.79	12.58	12.45	13.00	2
		8	7	11.87	12.50	12.44	13.00	2
		15	0	11.75	12.51	12.51	13.00	2
LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1850.7	1880	1909.3		
Channel				18607	18900	19193		
1.4	QPSK	1	0	13.84	14.53	14.37	15.00	0
		1	2	13.88	14.62	14.51	15.00	0
		1	5	13.69	14.55	14.42	15.00	0
		3	0	13.17	14.00	13.76	15.00	0
		3	2	13.16	13.88	13.89	15.00	0
		3	3	13.19	13.91	13.81	15.00	0
		6	0	13.16	13.91	13.87	14.00	1
1.4	16-QAM	1	0	13.18	13.82	13.92	14.00	1
		1	2	13.10	13.87	13.81	14.00	1
		1	5	13.18	13.79	13.81	14.00	1
		3	0	12.15	12.93	12.81	14.00	1
		3	2	12.16	12.86	12.72	14.00	1
		3	3	12.18	12.87	12.84	14.00	1
		6	0	12.19	12.94	12.76	13.00	2

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f (886-2) 2298-0488

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1720	1732.5	1745		
Channel				20050	20175	20300		
20	QPSK	1	0	16.08	16.39	16.48	16.50	0
		1	50	15.84	16.30	16.18	16.50	0
		1	99	15.87	16.26	16.31	16.50	0
		50	0	14.84	15.23	15.33	15.50	1
		50	25	14.84	15.22	15.30	15.50	1
		50	50	14.87	15.23	15.38	15.50	1
		100	0	14.92	15.34	15.34	15.50	1
20	16-QAM	1	0	14.84	15.16	15.23	15.50	1
		1	50	14.95	15.16	15.41	15.50	1
		1	99	14.90	15.16	15.34	15.50	1
		50	0	14.02	14.17	14.34	14.50	2
		50	25	13.92	14.34	14.34	14.50	2
		50	50	13.91	14.13	14.31	14.50	2
		100	0	13.85	14.22	14.30	14.50	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
Channel				20025	20175	20325		
15	QPSK	1	0	15.88	16.28	16.39	16.50	0
		1	36	16.02	16.19	16.43	16.50	0
		1	74	15.89	16.25	16.34	16.50	0
		36	0	14.98	15.23	15.33	15.50	1
		36	18	14.88	15.17	15.32	15.50	1
		36	37	14.92	15.29	15.21	15.50	1
		75	0	14.96	15.19	15.43	15.50	1
15	16-QAM	1	0	14.92	15.24	15.33	15.50	1
		1	36	14.90	15.25	15.22	15.50	1
		1	74	14.92	15.19	15.30	15.50	1
		36	0	13.96	14.20	14.33	14.50	2
		36	18	13.87	14.29	14.27	14.50	2
		36	37	13.99	14.24	14.27	14.50	2
		75	0	14.02	14.16	14.39	14.50	2

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1732.5	1750		
Channel				20000	20175	20350		
10	QPSK	1	0	15.92	16.10	16.37	16.50	0
		1	25	15.97	16.13	16.29	16.50	0
		1	49	15.83	16.25	16.35	16.50	0
		25	0	14.87	15.31	15.26	15.50	1
		25	12	14.92	15.15	15.36	15.50	1
		25	25	14.92	15.30	15.36	15.50	1
		50	0	14.97	15.26	15.29	15.50	1
10	16-QAM	1	0	14.89	15.32	15.31	15.50	1
		1	25	14.91	15.30	15.25	15.50	1
		1	49	14.91	15.27	15.31	15.50	1
		25	0	13.88	14.18	14.32	14.50	2
		25	12	13.80	14.27	14.36	14.50	2
		25	25	13.94	14.33	14.26	14.50	2
		50	0	13.93	14.23	14.33	14.50	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
Channel				19975	20175	20375		
5	QPSK	1	0	15.80	16.26	16.42	16.50	0
		1	12	15.90	16.19	16.27	16.50	0
		1	24	15.91	16.11	16.32	16.50	0
		12	0	14.93	15.23	15.38	15.50	1
		12	6	15.05	15.13	15.34	15.50	1
		12	13	14.90	15.23	15.34	15.50	1
		25	0	14.92	15.28	15.36	15.50	1
5	16-QAM	1	0	14.81	15.19	15.39	15.50	1
		1	12	14.87	15.10	15.31	15.50	1
		1	24	15.00	15.23	15.38	15.50	1
		12	0	13.98	14.20	14.46	14.50	2
		12	6	13.98	14.13	14.25	14.50	2
		12	13	13.89	14.33	14.44	14.50	2
		25	0	13.96	14.30	14.24	14.50	2

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f (886-2) 2298-0488

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
Channel				19965	20175	20385		
3	QPSK	1	0	15.94	16.16	16.37	16.50	0
		1	7	15.92	16.28	16.26	16.50	0
		1	14	16.05	16.27	16.33	16.50	0
		8	0	14.83	15.21	15.35	15.50	1
		8	4	14.80	15.31	15.43	15.50	1
		8	7	14.92	15.16	15.25	15.50	1
		15	0	14.88	15.24	15.32	15.50	1
3	16-QAM	1	0	14.94	15.27	15.39	15.50	1
		1	7	14.96	15.24	15.27	15.50	1
		1	14	14.88	15.17	15.32	15.50	1
		8	0	14.01	14.24	14.39	14.50	2
		8	4	13.92	14.20	14.29	14.50	2
		8	7	13.82	14.28	14.42	14.50	2
		15	0	13.84	14.24	14.40	14.50	2
LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
Channel				19957	20175	20393		
1.4	QPSK	1	0	15.91	16.18	16.23	16.50	0
		1	2	16.03	16.20	16.25	16.50	0
		1	5	15.84	16.20	16.29	16.50	0
		3	0	15.33	15.72	15.64	16.50	0
		3	2	15.23	15.66	15.65	16.50	0
		3	3	15.44	15.52	15.70	16.50	0
		6	0	15.36	15.47	15.48	15.50	1
1.4	16-QAM	1	0	15.29	15.45	15.46	15.50	1
		1	2	15.21	15.43	15.41	15.50	1
		1	5	15.35	15.21	15.31	15.50	1
		3	0	14.24	14.58	14.57	15.50	1
		3	2	14.30	14.52	14.69	15.50	1
		3	3	14.17	14.53	14.62	15.50	1
		6	0	14.29	14.46	14.47	14.50	2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2510	2535	2560		
Channel				20850	21100	21350		
20	QPSK	1	0	14.26	14.01	14.38	14.50	0
		1	50	14.24	13.81	13.78	14.50	0
		1	99	14.23	13.71	13.92	14.50	0
		50	0	13.17	12.95	12.88	13.50	1
		50	25	13.14	12.85	12.95	13.50	1
		50	50	13.27	12.78	12.85	13.50	1
		100	0	13.28	12.90	12.87	13.50	1
20	16-QAM	1	0	13.13	12.93	12.82	13.50	1
		1	50	13.24	12.86	12.81	13.50	1
		1	99	13.32	12.75	12.90	13.50	1
		50	0	12.09	11.94	11.78	12.50	2
		50	25	12.21	11.82	11.90	12.50	2
		50	50	12.12	11.75	11.80	12.50	2
		100	0	12.20	11.85	11.80	12.50	2
LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	14.21	13.86	13.88	14.50	0
		1	36	14.26	13.87	13.76	14.50	0
		1	74	14.24	13.85	13.92	14.50	0
		36	0	13.25	12.77	12.87	13.50	1
		36	18	13.21	12.78	12.84	13.50	1
		36	37	13.31	12.79	12.80	13.50	1
		75	0	13.24	12.93	12.84	13.50	1
15	16-QAM	1	0	13.23	12.81	12.99	13.50	1
		1	36	13.19	12.92	12.74	13.50	1
		1	74	13.18	12.89	12.75	13.50	1
		36	0	12.12	11.91	11.83	12.50	2
		36	18	12.27	11.92	11.88	12.50	2
		36	37	12.19	11.83	11.85	12.50	2
		75	0	12.24	11.73	11.97	12.50	2

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2505	2535	2565		
Channel				20800	21100	21400		
10	QPSK	1	0	14.18	13.76	13.86	14.50	0
		1	25	14.22	13.84	13.76	14.50	0
		1	49	14.22	13.91	13.83	14.50	0
		25	0	13.30	12.94	12.97	13.50	1
		25	12	13.24	12.82	12.86	13.50	1
		25	25	13.15	12.72	12.87	13.50	1
		50	0	13.19	12.81	12.93	13.50	1
10	16-QAM	1	0	13.24	12.86	12.97	13.50	1
		1	25	13.34	12.87	12.92	13.50	1
		1	49	13.34	12.75	12.84	13.50	1
		25	0	12.20	11.92	11.91	12.50	2
		25	12	12.20	11.86	11.75	12.50	2
		25	25	12.22	11.87	11.83	12.50	2
		50	0	12.14	11.78	11.98	12.50	2
LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	14.21	13.78	13.96	14.50	0
		1	12	14.25	13.88	13.86	14.50	0
		1	24	14.21	13.87	13.78	14.50	0
		12	0	13.21	12.94	12.84	13.50	1
		12	6	13.21	12.90	12.81	13.50	1
		12	13	13.23	12.77	12.83	13.50	1
		25	0	13.18	12.92	12.83	13.50	1
5	16-QAM	1	0	13.24	12.94	12.82	13.50	1
		1	12	13.26	12.76	12.85	13.50	1
		1	24	13.24	12.89	12.87	13.50	1
		12	0	12.31	11.89	11.92	12.50	2
		12	6	12.26	11.75	11.78	12.50	2
		12	13	12.17	11.83	11.88	12.50	2
		25	0	12.29	11.88	11.82	12.50	2

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f (886-2) 2298-0488

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1860	1882.5	1905		
Channel				26140	26365	26590		
20	QPSK	1	0	14.01	14.05	14.73	15.00	0
		1	50	13.87	13.87	14.49	15.00	0
		1	99	13.86	13.81	14.57	15.00	0
		50	0	12.84	12.87	13.53	14.00	1
		50	25	12.82	12.86	13.47	14.00	1
		50	50	12.83	12.84	13.69	14.00	1
		100	0	12.88	12.94	13.55	14.00	1
20	16-QAM	1	0	12.81	12.95	13.55	14.00	1
		1	50	12.81	12.97	13.44	14.00	1
		1	99	12.88	12.82	13.56	14.00	1
		50	0	11.93	11.78	12.50	13.00	2
		50	25	11.91	11.92	12.58	13.00	2
		50	50	11.82	11.86	12.55	13.00	2
		100	0	11.84	12.03	12.54	13.00	2
LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
Channel				26115	26365	26615		
15	QPSK	1	0	13.84	14.00	14.55	15.00	0
		1	36	13.75	13.91	14.55	15.00	0
		1	74	13.89	13.83	14.52	15.00	0
		36	0	12.81	12.91	13.55	14.00	1
		36	18	12.87	12.88	13.65	14.00	1
		36	37	12.87	12.98	13.46	14.00	1
		75	0	12.76	12.90	13.55	14.00	1
15	16-QAM	1	0	12.83	13.01	13.55	14.00	1
		1	36	12.92	13.00	13.63	14.00	1
		1	74	12.90	12.89	13.54	14.00	1
		36	0	11.83	11.93	12.50	13.00	2
		36	18	11.85	11.76	12.61	13.00	2
		36	37	11.85	11.98	12.58	13.00	2
		75	0	11.84	11.84	12.61	13.00	2

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1855	1882.5	1910		
Channel				26090	26365	26640		
10	QPSK	1	0	13.85	13.86	14.48	15.00	0
		1	25	13.84	13.85	14.63	15.00	0
		1	49	13.91	13.88	14.51	15.00	0
		25	0	12.80	12.77	13.55	14.00	1
		25	12	12.89	12.80	13.48	14.00	1
		25	25	12.88	12.84	13.58	14.00	1
		50	0	12.81	12.81	13.49	14.00	1
10	16-QAM	1	0	12.77	12.88	13.46	14.00	1
		1	25	12.88	12.78	13.67	14.00	1
		1	49	12.92	12.97	13.62	14.00	1
		25	0	11.80	11.83	12.49	13.00	2
		25	12	11.81	11.83	12.67	13.00	2
		25	25	11.86	11.88	12.53	13.00	2
		50	0	11.82	11.83	12.43	13.00	2
LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
Channel				26065	26365	26665		
5	QPSK	1	0	13.80	13.92	14.58	15.00	0
		1	12	13.83	13.99	14.65	15.00	0
		1	24	13.81	13.87	14.50	15.00	0
		12	0	12.77	12.84	13.52	14.00	1
		12	6	12.94	12.99	13.54	14.00	1
		12	13	12.82	12.93	13.48	14.00	1
		25	0	12.94	12.82	13.45	14.00	1
5	16-QAM	1	0	12.87	12.91	13.57	14.00	1
		1	12	12.88	12.93	13.56	14.00	1
		1	24	12.80	12.78	13.55	14.00	1
		12	0	11.87	11.93	12.54	13.00	2
		12	6	11.75	11.91	12.60	13.00	2
		12	13	11.94	11.95	12.60	13.00	2
		25	0	11.87	11.89	12.44	13.00	2

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1851.5	1882.5	1913.5		
Channel				26055	26365	26675		
3	QPSK	1	0	13.88	13.89	14.55	15.00	0
		1	7	13.80	13.87	14.50	15.00	0
		1	14	13.88	13.90	14.55	15.00	0
		8	0	12.84	12.92	13.61	14.00	1
		8	4	12.85	12.87	13.49	14.00	1
		8	7	12.77	12.81	13.51	14.00	1
		15	0	12.78	12.86	13.54	14.00	1
3	16-QAM	1	0	12.86	12.83	13.50	14.00	1
		1	7	12.82	12.76	13.54	14.00	1
		1	14	12.82	12.90	13.45	14.00	1
		8	0	11.86	11.88	12.56	13.00	2
		8	4	11.95	11.98	12.57	13.00	2
		8	7	11.96	11.92	12.54	13.00	2
		15	0	11.84	11.81	12.64	13.00	2
LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1850.7	1882.5	1914.3		
Channel				26047	26365	26683		
1.4	QPSK	1	0	13.96	13.98	14.59	15.00	0
		1	2	13.82	13.87	14.55	15.00	0
		1	5	13.94	14.03	14.49	15.00	0
		3	0	13.20	13.31	13.97	15.00	0
		3	2	13.15	13.21	13.90	15.00	0
		3	3	13.22	13.32	13.95	15.00	0
		6	0	13.20	13.16	13.96	14.00	1
1.4	16-QAM	1	0	13.21	13.36	13.87	14.00	1
		1	2	13.10	13.27	13.94	14.00	1
		1	5	13.17	13.24	13.89	14.00	1
		3	0	12.19	12.21	12.88	14.00	1
		3	2	12.04	12.18	12.93	14.00	1
		3	3	12.03	12.20	12.95	14.00	1
		6	0	12.06	12.11	12.85	13.00	2

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f (886-2) 2298-0488

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1720	1745	1770		
Channel				132072	132322	132572		
20	QPSK	1	0	11.91	11.85	12.24	12.50	0
		1	50	11.80	11.76	11.98	12.50	0
		1	99	11.70	11.60	12.08	12.50	0
		50	0	10.77	10.70	11.08	11.50	1
		50	25	10.81	10.76	11.11	11.50	1
		50	50	10.83	10.72	11.13	11.50	1
		100	0	10.66	10.70	11.00	11.50	1
20	16-QAM	1	0	10.76	10.80	11.21	11.50	1
		1	50	10.78	10.79	11.03	11.50	1
		1	99	10.81	10.62	11.02	11.50	1
		50	0	9.72	9.68	10.15	10.50	2
		50	25	9.86	9.69	10.00	10.50	2
		50	50	9.77	9.62	10.14	10.50	2
		100	0	9.67	9.58	10.06	10.50	2
LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1717.5	1745	1772.5		
Channel				132047	132322	132597		
15	QPSK	1	0	11.73	11.58	12.02	12.50	0
		1	36	11.74	11.75	12.06	12.50	0
		1	74	11.71	11.63	12.14	12.50	0
		36	0	10.74	10.67	11.11	11.50	1
		36	18	10.85	10.74	11.01	11.50	1
		36	37	10.83	10.66	11.06	11.50	1
		75	0	10.82	10.60	11.06	11.50	1
15	16-QAM	1	0	10.63	10.66	11.03	11.50	1
		1	36	10.81	10.62	11.17	11.50	1
		1	74	10.75	10.70	11.09	11.50	1
		36	0	9.77	9.69	10.09	10.50	2
		36	18	9.71	9.68	10.11	10.50	2
		36	37	9.65	9.74	10.18	10.50	2
		75	0	9.62	9.65	10.04	10.50	2

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f (886-2) 2298-0488

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1745	1775		
Channel				132022	132322	132622		
10	QPSK	1	0	11.73	11.76	12.11	12.50	0
		1	25	11.75	11.79	12.15	12.50	0
		1	49	11.79	11.60	12.07	12.50	0
		25	0	10.81	10.70	10.98	11.50	1
		25	12	10.84	10.65	11.09	11.50	1
		25	25	10.75	10.68	11.08	11.50	1
		50	0	10.73	10.64	11.12	11.50	1
10	16-QAM	1	0	10.77	10.70	11.00	11.50	1
		1	25	10.79	10.65	11.07	11.50	1
		1	49	10.78	10.76	10.97	11.50	1
		25	0	9.89	9.64	10.11	10.50	2
		25	12	9.74	9.62	10.17	10.50	2
		25	25	9.81	9.61	10.15	10.50	2
		50	0	9.79	9.75	9.97	10.50	2
LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1712.5	1745	1777.5		
Channel				131997	132322	132647		
5	QPSK	1	0	11.66	11.59	12.07	12.50	0
		1	12	11.89	11.78	12.08	12.50	0
		1	24	11.84	11.66	12.07	12.50	0
		12	0	10.79	10.73	11.06	11.50	1
		12	6	10.70	10.60	11.06	11.50	1
		12	13	10.78	10.67	11.05	11.50	1
		25	0	10.74	10.68	11.03	11.50	1
5	16-QAM	1	0	10.88	10.59	11.05	11.50	1
		1	12	10.79	10.65	11.13	11.50	1
		1	24	10.72	10.62	11.07	11.50	1
		12	0	9.84	9.77	10.05	10.50	2
		12	6	9.67	9.65	10.06	10.50	2
		12	13	9.69	9.70	10.12	10.50	2
		25	0	9.80	9.74	9.96	10.50	2

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1745	1778.5		
Channel				131987	132322	132657		
3	QPSK	1	0	11.73	11.77	12.16	12.50	0
		1	7	11.82	11.77	12.18	12.50	0
		1	14	11.75	11.64	12.13	12.50	0
		8	0	10.70	10.67	11.13	11.50	1
		8	4	10.79	10.76	11.11	11.50	1
		8	7	10.75	10.63	11.20	11.50	1
		15	0	10.87	10.55	11.07	11.50	1
3	16-QAM	1	0	10.68	10.79	10.97	11.50	1
		1	7	10.76	10.73	11.09	11.50	1
		1	14	10.77	10.82	11.13	11.50	1
		8	0	9.68	9.77	9.99	10.50	2
		8	4	9.85	9.78	10.02	10.50	2
		8	7	9.84	9.65	10.00	10.50	2
		15	0	9.70	9.67	10.10	10.50	2
LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1745	1779.3		
Channel				131979	132322	132665		
1.4	QPSK	1	0	11.73	11.59	12.07	12.50	0
		1	2	11.83	11.70	12.05	12.50	0
		1	5	11.61	11.66	12.06	12.50	0
		3	0	10.84	10.66	11.02	12.50	0
		3	2	10.67	10.66	11.00	12.50	0
		3	3	10.75	10.78	11.08	12.50	0
		6	0	10.69	10.75	11.12	11.50	1
1.4	16-QAM	1	0	10.80	10.77	11.14	11.50	1
		1	2	10.83	10.62	11.03	11.50	1
		1	5	10.79	10.66	11.13	11.50	1
		3	0	9.73	9.69	10.05	11.50	1
		3	2	9.75	9.75	10.04	11.50	1
		3	3	9.76	9.79	10.14	11.50	1
		6	0	9.68	9.74	10.04	10.50	2

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f (886-2) 2298-0488

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6.2 WLAN

WLAN						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	5.00	4.53
		6	2437		10.50	10.29
		11	2462		7.50	7.11
	802.11g	1	2412	6Mbps	15.00	14.25
		6	2437		19.50	19.45
		11	2462		17.00	16.68
	802.11n20-HT0	1	2412	MCS0	16.00	15.77
		6	2437		21.50	21.32
		11	2462		19.00	18.91
	802.11n40-HT0	3	2422	MCS0	19.50	19.28
		6	2437		21.00	20.92
		9	2452		8.00	7.55
WLAN						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	11.50	10.77
		40	5200		11.50	11.40
		44	5220		11.50	11.44
		48	5240		11.00	10.91
	802.11n20-HT0	36	5180	MCS0	11.00	10.52
		40	5200		11.00	10.84
		44	5220		11.50	11.39
		48	5240		11.00	10.67
	802.11ac20-VHT0	36	5180	MCS0	11.50	10.74
		40	5200		11.50	11.25
		44	5220		11.50	11.32
		48	5240		11.00	10.85
	802.11n40-HT0	38	5190	MCS0	9.50	9.36
		46	5230		10.50	10.40
	802.11ac40-VHT0	38	5190	MCS0	9.50	9.25
		46	5230		10.50	10.38
	802.11ac80-VHT0	42	5210	MCS0	9.50	9.41

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WLAN						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	9.50	9.22
		56	5280		9.00	8.91
		60	5300		9.00	8.95
		64	5320		10.00	9.84
	802.11n20-HT0	52	5260	MCS0	9.00	8.74
		56	5280		9.00	8.85
		60	5300		9.00	8.89
		64	5320		10.00	9.72
	802.11ac20-VHT0	52	5260	MCS0	9.50	9.21
		56	5280		9.00	8.78
		60	5300		9.00	8.86
		64	5320		10.00	9.77
	802.11n40-HT0	54	5270	MCS0	10.50	9.79
		62	5310		6.00	5.40
	802.11ac40-VHT0	54	5270	MCS0	10.50	10.41
		62	5310		6.00	5.81
	802.11ac80-VHT0	58	5290	MCS0	4.50	4.38
WLAN						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	9.00	8.87
		120	5600		8.50	8.36
		140	5700		6.00	5.89
	802.11n20-HT0	100	5500	MCS0	8.50	8.37
		120	5600		8.50	8.37
		140	5700		6.00	5.86
	802.11ac20-VHT0	100	5500	MCS0	8.50	8.31
		120	5600		8.50	8.39
		140	5700		6.00	5.89
	802.11n40-HT0	102	5510	MCS0	5.50	5.37
		118	5590		9.00	8.87
		134	5670		8.00	7.87
	802.11ac40-VHT0	102	5510	MCS0	5.50	5.34
		118	5590		9.00	8.82
		134	5670		8.00	7.84
	802.11ac80-VHT0	106	5530	MCS0	10.00	9.70
		122	5610		8.50	8.01

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WLAN						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	7.00	6.89
		157	5785		6.00	5.82
		165	5825		5.00	4.80
	802.11n20-HT0	149	5745	MCS0	7.00	6.89
		157	5785		6.00	5.83
		165	5825		5.00	4.84
	802.11ac20-VHT0	149	5745	MCS0	7.00	6.81
		157	5785		6.00	5.89
		165	5825		5.00	4.83
	802.11n40-HT0	151	5755	MCS0	7.50	7.01
		159	5795		6.50	6.10
	802.11ac40-VHT0	151	5755	MCS0	7.50	7.36
		159	5795		6.50	6.30
	802.11ac80-VHT0	155	5775	MCS0	6.50	6.36

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6.3 Bluetooth

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	11.00	9.01	11.00	NR*	11.00	NR*
	CH 39	2441		9.71		NR*		NR*
	CH 78	2480		8.83		NR*		NR*

6.4 BLE

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	11	NR*
	CH 19	2440		NR*
	CH 39	2480		NR*
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	11	NR*
	CH 19	2440		NR*
	CH 39	2480		NR*

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7 SUMMARY OF RESULTS

7.1 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.

7.2 Summary of SAR Results

WWAN

Full power

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	Front Surface	5	20600	844	24.00	23.62	109.14%	0.345	0.377	-
LTE Band 5			25	0	Front Surface	5	20600	844	23.00	22.53	111.43%	0.275	0.306	-
LTE Band 5			1	0	Back Surface	5	20600	844	24.00	23.62	109.14%	0.409	0.446	001
LTE Band 5			25	0	Back Surface	5	20600	844	23.00	22.53	111.43%	0.272	0.303	-
LTE Band 5			1	0	Top Edge	5	20600	844	24.00	23.62	109.14%	0.145	0.158	-
LTE Band 5			25	0	Top Edge	5	20600	844	23.00	22.53	111.43%	0.112	0.125	-
LTE Band 5			1	0	Right Edge	5	20600	844	24.00	23.62	109.14%	0.276	0.301	-
LTE Band 5			25	0	Right Edge	5	20600	844	23.00	22.53	111.43%	0.193	0.215	-
LTE Band 5			1	0	Curve of Right	5	20600	844	24.00	23.62	109.14%	0.254	0.277	-
LTE Band 5			25	0	Curve of Right	5	20600	844	23.00	22.53	111.43%	0.191	0.213	-
LTE Band 12	10MHz	QPSK	1	0	Front Surface	5	23130	711	24.00	23.08	123.59%	0.532	0.658	-
LTE Band 12			25	25	Front Surface	5	23130	711	23.00	21.95	127.35%	0.413	0.526	-
LTE Band 12			1	0	Back Surface	5	23060	704	24.00	22.89	129.12%	0.733	0.946	-
LTE Band 12			1	0	Back Surface	5	23095	707.5	24.00	22.78	132.43%	0.742	0.983	-
LTE Band 12			1	0	Back Surface	5	23130	711	24.00	23.08	123.59%	0.813	1.005	002
LTE Band 12			25	25	Back Surface	5	23130	711	23.00	21.95	127.35%	0.621	0.791	-
LTE Band 12			50RB		Back Surface	5	23130	711	23.00	21.87	129.72%	0.612	0.794	-
LTE Band 12			1	0	Top Edge	5	23130	711	24.00	23.08	123.59%	0.220	0.272	-
LTE Band 12			25	25	Top Edge	5	23130	711	23.00	21.95	127.35%	0.145	0.185	-
LTE Band 12			1	0	Right Edge	5	23130	711	24.00	23.08	123.59%	0.452	0.559	-
LTE Band 12			25	25	Right Edge	5	23130	711	23.00	21.95	127.35%	0.367	0.467	-
LTE Band 12			1	0	Curve of Right	5	23130	711	24.00	23.08	123.59%	0.415	0.513	-
LTE Band 12			25	25	Curve of Right	5	23130	711	23.00	21.95	127.35%	0.327	0.416	-
LTE Band 12			1	0	Back Surface*	5	23130	711	24.00	23.08	123.59%	0.798	0.986	-
LTE Band 13	10MHz	QPSK	1	0	Front Surface	5	23230	782	25.00	23.15	153.11%	0.392	0.600	-
LTE Band 13			25	0	Front Surface	5	23230	782	24.00	22.12	154.17%	0.268	0.413	-
LTE Band 13			1	0	Back Surface	5	23230	782	25.00	23.15	153.11%	0.546	0.836	003
LTE Band 13			25	0	Back Surface	5	23230	782	24.00	22.12	154.17%	0.396	0.611	-
LTE Band 13			50RB		Back Surface	5	23230	782	24.00	22.11	154.53%	0.473	0.731	-
LTE Band 13			1	0	Top Edge	5	23230	782	25.00	23.15	153.11%	0.134	0.205	-
LTE Band 13			25	0	Top Edge	5	23230	782	24.00	22.12	154.17%	0.103	0.159	-
LTE Band 13			1	0	Right Edge	5	23230	782	25.00	23.15	153.11%	0.354	0.542	-
LTE Band 13			25	0	Right Edge	5	23230	782	24.00	22.12	154.17%	0.224	0.345	-
LTE Band 13			1	0	Curve of Right	5	23230	782	25.00	23.15	153.11%	0.319	0.488	-
LTE Band 13			25	0	Curve of Right	5	23230	782	24.00	22.12	154.17%	0.183	0.282	-

Note: * - repeated at the highest SAR measurement according to the KDB 865664 D01

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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 2	20MHz	QPSK	1	0	Front Surface	5	18900	1880	24.00	23.50	112.20%	0.207	0.232	-
LTE Band 2			50	50	Front Surface	5	18900	1860	23.00	22.39	115.08%	0.153	0.176	-
LTE Band 2			1	0	Back Surface	5	18900	1880	24.00	23.50	112.20%	0.488	0.548	-
LTE Band 2			50	50	Back Surface	5	18900	1860	23.00	22.39	115.08%	0.357	0.411	-
LTE Band 2			1	0	Top Edge	5	18900	1880	24.00	23.50	112.20%	0.079	0.089	-
LTE Band 2			50	50	Top Edge	5	18900	1860	23.00	22.39	115.08%	0.055	0.063	-
LTE Band 2			1	0	Right Edge	25	18700	1860	24.00	23.12	122.46%	0.814	0.997	-
LTE Band 2			1	0	Right Edge	25	18900	1880	24.00	23.50	112.20%	0.894	1.003	004
LTE Band 2			1	0	Right Edge	25	19100	1900	24.00	23.33	116.68%	0.859	1.002	-
LTE Band 2			50	25	Right Edge	25	18700	1860	23.00	21.98	126.47%	0.736	0.931	-
LTE Band 2			50	50	Right Edge	25	18900	1860	23.00	22.39	115.08%	0.745	0.857	-
LTE Band 2			50	25	Right Edge	25	19100	1860	23.00	22.18	120.78%	0.729	0.880	-
LTE Band 2			100RB		Right Edge	25	18900	1880	23.00	22.29	117.76%	0.716	0.843	-
LTE Band 2			1	0	Curve of Right	5	18900	1880	24.00	23.50	112.20%	0.636	0.714	-
LTE Band 2			50	50	Curve of Right	5	18900	1860	23.00	22.39	115.08%	0.530	0.610	-
LTE Band 4	20MHz	QPSK	1	0	Front Surface	5	20300	1745	24.00	23.98	100.46%	0.197	0.198	-
LTE Band 4			50	50	Front Surface	5	20175	1732.5	23.00	22.92	101.86%	0.149	0.152	-
LTE Band 4			1	0	Back Surface	5	20300	1745	24.00	23.98	100.46%	0.431	0.433	-
LTE Band 4			50	50	Back Surface	5	20175	1732.5	23.00	22.92	101.86%	0.336	0.342	-
LTE Band 4			1	0	Top Edge	5	20300	1745	24.00	23.98	100.46%	0.045	0.045	-
LTE Band 4			50	50	Top Edge	5	20175	1732.5	23.00	22.92	101.86%	0.028	0.029	-
LTE Band 4			1	0	Right Edge	25	20300	1745	24.00	23.98	100.46%	0.593	0.596	005
LTE Band 4			50	50	Right Edge	25	20175	1732.5	23.00	22.92	101.86%	0.434	0.442	-
LTE Band 4			1	0	Curve of Right	5	20300	1745	24.00	23.98	100.46%	0.405	0.407	-
LTE Band 4			50	50	Curve of Right	5	20175	1732.5	23.00	22.92	101.86%	0.285	0.290	-
LTE Band 7	20MHz	QPSK	1	0	Front Surface	5	21350	2560	23.00	22.16	121.34%	0.085	0.103	-
LTE Band 7			50	0	Front Surface	5	21350	2560	22.00	20.98	126.47%	0.059	0.075	-
LTE Band 7			1	0	Back Surface	5	21350	2560	23.00	22.16	121.34%	0.117	0.142	-
LTE Band 7			50	0	Back Surface	5	21350	2560	22.00	20.98	126.47%	0.091	0.115	-
LTE Band 7			1	0	Top Edge	5	21350	2560	23.00	22.16	121.34%	0.077	0.093	-
LTE Band 7			50	0	Top Edge	5	21350	2560	22.00	20.98	126.47%	0.058	0.073	-
LTE Band 7			1	0	Right Edge	25	21350	2560	23.00	22.16	121.34%	0.262	0.318	006
LTE Band 7			50	0	Right Edge	25	21350	2560	22.00	20.98	126.47%	0.192	0.243	-
LTE Band 7			1	0	Curve of Right	5	21350	2560	23.00	22.16	121.34%	0.234	0.284	-
LTE Band 7			50	0	Curve of Right	5	21350	2560	22.00	20.98	126.47%	0.162	0.205	-
LTE Band 25	20MHz	QPSK	1	0	Front Surface	5	26590	1905	24.00	23.99	100.23%	0.189	0.189	-
LTE Band 25			50	25	Front Surface	5	26590	1905	23.00	22.80	104.71%	0.140	0.147	-
LTE Band 25			1	0	Back Surface	5	26590	1905	24.00	23.99	100.23%	0.361	0.362	-
LTE Band 25			50	25	Back Surface	5	26590	1905	23.00	22.80	104.71%	0.258	0.270	-
LTE Band 25			1	0	Top Edge	5	26590	1905	24.00	23.99	100.23%	0.063	0.063	-
LTE Band 25			50	25	Top Edge	5	26590	1905	23.00	22.80	104.71%	0.049	0.051	-
LTE Band 25			1	0	Right Edge	25	26590	1905	24.00	23.99	100.23%	0.763	0.765	007
LTE Band 25			50	25	Right Edge	25	26590	1905	23.00	22.80	104.71%	0.643	0.673	-
LTE Band 25			1	0	Curve of Right	5	26590	1905	24.00	23.99	100.23%	0.603	0.604	-
LTE Band 25			50	25	Curve of Right	5	26590	1905	23.00	22.80	104.71%	0.468	0.490	-
LTE Band 66	20MHz	QPSK	1	0	Front Surface	5	132572	1770	24.00	23.99	100.23%	0.250	0.251	-
LTE Band 66			50	0	Front Surface	5	132572	1770	23.00	22.95	101.16%	0.189	0.191	-
LTE Band 66			1	0	Back Surface	5	132572	1770	24.00	23.99	100.23%	0.599	0.600	-
LTE Band 66			50	0	Back Surface	5	132572	1770	23.00	22.95	101.16%	0.423	0.428	-
LTE Band 66			1	0	Top Edge	5	132572	1770	24.00	23.99	100.23%	0.052	0.052	-
LTE Band 66			50	0	Top Edge	5	132572	1770	23.00	22.95	101.16%	0.035	0.035	-
LTE Band 66			1	0	Right Edge	25	132072	1720	24.00	23.97	100.69%	0.961	0.968	-
LTE Band 66			1	0	Right Edge	25	132322	1745	24.00	23.98	100.46%	0.978	0.983	-
LTE Band 66			1	0	Right Edge	25	132572	1770	24.00	23.99	100.23%	0.985	0.987	008
LTE Band 66			50	0	Right Edge	25	132072	1720	23.00	22.83	103.99%	0.789	0.820	-
LTE Band 66			50	50	Right Edge	25	132322	1745	23.00	22.88	102.80%	0.743	0.764	-
LTE Band 66			50	0	Right Edge	25	132572	1770	23.00	22.95	101.16%	0.764	0.773	-
LTE Band 66			100RB		Right Edge	25	132572	1770	23.00	22.92	101.86%	0.723	0.736	-
LTE Band 66			1	0	Curve of Right	5	132572	1770	24.00	23.99	100.23%	0.765	0.767	-
LTE Band 66			50	0	Curve of Right	5	132572	1770	23.00	22.95	101.16%	0.613	0.620	-

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Reduced power

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 2	20MHz	QPSK	1	0	Right Edge	5	18700	1860	15.00	13.96	127.06%	0.743	0.944	-
LTE Band 2			1	0	Right Edge	5	18900	1880	15.00	14.70	107.15%	1.080	1.157	009
LTE Band 2			1	0	Right Edge	5	19100	1900	15.00	14.63	108.89%	0.911	0.992	-
LTE Band 2			50	0	Right Edge	5	18900	1860	14.00	13.55	110.92%	0.620	0.688	-
LTE Band 2			100RB		Right Edge	5	18900	1880	14.00	13.60	109.65%	0.541	0.593	-
LTE Band 2			1	0	Right Edge*	5	18900	1880	15.00	14.70	107.15%	1.010	1.082	-
LTE Band 4	20MHz	QPSK	1	0	Right Edge	5	20050	1720	16.50	16.08	110.15%	0.890	0.980	-
LTE Band 4			1	0	Right Edge	5	20175	1732.5	16.50	16.39	102.57%	0.990	1.015	-
LTE Band 4			1	0	Right Edge	5	20300	1745	16.50	16.48	100.46%	1.010	1.015	010
LTE Band 4			50	50	Right Edge	5	20300	1745	15.50	15.38	102.80%	0.762	0.783	-
LTE Band 4			100RB		Right Edge	5	20175	1732.5	15.50	15.34	103.75%	0.689	0.715	-
LTE Band 4														
LTE Band 7	20MHz	QPSK	1	0	Right Edge	5	20850	2510	14.50	14.26	105.68%	0.775	0.819	-
LTE Band 7			1	0	Right Edge	5	21100	2535	14.50	14.01	111.94%	0.767	0.859	-
LTE Band 7			1	0	Right Edge	5	21350	2560	14.50	14.38	102.80%	0.793	0.815	011
LTE Band 7			50	50	Right Edge	5	20850	2510	13.50	13.27	105.44%	0.614	0.647	-
LTE Band 7			100RB		Right Edge	5	20850	2510	13.50	13.28	105.20%	0.601	0.632	-
LTE Band 7														
LTE Band 25	20MHz	QPSK	1	0	Right Edge	5	26140	1860	15.00	14.01	125.60%	0.789	0.991	-
LTE Band 25			1	0	Right Edge	5	26365	1882.5	15.00	14.05	124.45%	0.862	1.073	-
LTE Band 25			1	0	Right Edge	5	26590	1905	15.00	14.73	106.41%	0.990	1.054	012
LTE Band 25			50	50	Right Edge	5	26590	1905	14.00	13.69	107.40%	0.594	0.638	-
LTE Band 25			100RB		Right Edge	5	26590	1905	14.00	13.55	110.92%	0.540	0.599	-
LTE Band 25														
LTE Band 66	20MHz	QPSK	1	0	Right Edge	5	132072	1720	12.50	11.91	114.55%	0.891	1.021	-
LTE Band 66			1	0	Right Edge	5	132322	1745	12.50	11.85	116.14%	0.953	1.107	-
LTE Band 66			1	0	Right Edge	5	132572	1770	12.50	12.24	106.17%	1.090	1.157	013
LTE Band 66			50	50	Right Edge	5	132572	1770	11.50	11.13	108.89%	0.825	0.898	-
LTE Band 66			100RB		Right Edge	5	132572	1770	11.50	11.00	112.20%	0.793	0.890	-
LTE Band 66			1	0	Right Edge*	5	132572	1770	12.50	12.24	106.17%	1.020	1.083	-

Note: * - repeated at the highest SAR measurement according to the KDB 865664 D01

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WLAN

Band	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Front Surface	5	6	2437	10.50	10.29	1.03	104.95%	0.014	0.015	-
WLAN 802.11b	Back Surface	5	6	2437	10.50	10.29	1.03	104.95%	0.011	0.012	-
WLAN 802.11b	Left Edge	5	6	2437	10.50	10.29	1.03	104.95%	0.030	0.032	014
WLAN 802.11b	Curve of Left	5	6	2437	10.50	10.29	1.03	104.95%	0.018	0.019	-
Band	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
Bluetooth(GFSK)	Front Surface	5	39	2441	11.00	9.71	1.33	134.59%	0.012	0.021	-
Bluetooth(GFSK)	Back Surface	5	39	2441	11.00	9.71	1.33	134.59%	0.008	0.014	-
Bluetooth(GFSK)	Left Edge	5	39	2441	11.00	9.71	1.33	134.59%	0.020	0.036	015
Bluetooth(GFSK)	Curve of Left	5	39	2441	11.00	9.71	1.33	134.59%	0.015	0.027	-
Band	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11a 5.2G	Front Surface	5	44	5220	11.50	11.44	1.03	101.39%	0.093	0.097	-
WLAN 802.11a 5.2G	Back Surface	5	44	5220	11.50	11.44	1.03	101.39%	0.057	0.060	-
WLAN 802.11a 5.2G	Left Edge	5	44	5220	11.50	11.44	1.03	101.39%	0.286	0.299	016
WLAN 802.11a 5.2G	Curve of Left	5	44	5220	11.50	11.44	1.03	101.39%	0.143	0.149	-
Band	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11n(40M) 5.3G	Front Surface	5	54	5270	10.50	9.79	1.06	117.71%	0.055	0.069	-
WLAN 802.11n(40M) 5.3G	Back Surface	5	54	5270	10.50	9.79	1.06	117.71%	0.036	0.045	-
WLAN 802.11n(40M) 5.3G	Left Edge	5	54	5270	10.50	9.79	1.06	117.71%	0.177	0.221	017
WLAN 802.11n(40M) 5.3G	Curve of Left	5	54	5270	10.50	9.79	1.06	117.71%	0.101	0.126	-
Band	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.6G	Front Surface	5	106	5530	10.00	9.70	1.02	107.04%	0.110	0.120	-
WLAN 802.11ac(80M) 5.6G	Back Surface	5	106	5530	10.00	9.70	1.02	107.04%	0.068	0.074	-
WLAN 802.11ac(80M) 5.6G	Left Edge	5	106	5530	10.00	9.70	1.02	107.04%	0.354	0.387	018
WLAN 802.11ac(80M) 5.6G	Curve of Left	5	106	5530	10.00	9.70	1.02	107.04%	0.157	0.172	-
Band	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11n(40M) 5.8G	Front Surface	5	151	5755	7.50	7.01	1.06	111.89%	0.091	0.108	-
WLAN 802.11n(40M) 5.8G	Back Surface	5	151	5755	7.50	7.01	1.06	111.89%	0.046	0.055	-
WLAN 802.11n(40M) 5.8G	Left Edge	5	151	5755	7.50	7.01	1.06	111.89%	0.244	0.290	019
WLAN 802.11n(40M) 5.8G	Curve of Left	5	151	5755	7.50	7.01	1.06	111.89%	0.131	0.156	-

Note:

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

7.3 Reporting statements of conformity

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

7.4 Conclusion

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

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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8 SIMULTANEOUS TRANSMISSION ANALYSIS

8.1 Simultaneous Transmission Scenarios:

Simultaneous Transmission configurations
WWAN + WLAN 2.4GHz + NFC
WWAN + WLAN 5GHz + BT + NFC

8.2 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.

8.3 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

			Reported SAR					Scenario 1	Scenario 2
			1	2	3	4	5	1+2+5	1+3+4+5
			WWAN	2.4GHz WLAN WLAN	5GHz WLAN WLAN	Bluetooth WLAN	NFC	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 2	Front Surface	5	0.232	0.015	0.120	0.021	0.000	0.247	0.352
	Back Surface	5	0.548	0.012	0.074	0.014	0.000	0.560	0.622
	Top Edge	5	0.089				0.000	0.089	0.089
	Left Edge	5		0.032	0.387	0.036	0.000	0.032	0.387
	Right Edge	5	1.157				0.000	1.157	1.157
LTE Band 4	Front Surface	5	0.198	0.015	0.120	0.021	0.000	0.213	0.318
	Back Surface	5	0.433	0.012	0.074	0.014	0.000	0.445	0.507
	Top Edge	5	0.045				0.000	0.045	0.045
	Left Edge	5		0.032	0.387	0.036	0.000	0.032	0.387
	Right Edge	5	1.015				0.000	1.015	1.015
LTE Band 5	Front Surface	5	0.377	0.015	0.120	0.021	0.000	0.392	0.497
	Back Surface	5	0.553	0.012	0.074	0.014	0.000	0.565	0.627
	Top Edge	5	0.158				0.000	0.158	0.158
	Left Edge	5		0.032	0.387	0.036	0.000	0.032	0.387
	Right Edge	5	0.301				0.000	0.301	0.301
LTE Band 7	Front Surface	5	0.103	0.015	0.120	0.021	0.000	0.118	0.223
	Back Surface	5	0.142	0.012	0.074	0.014	0.000	0.154	0.216
	Top Edge	5	0.093				0.000	0.093	0.093
	Left Edge	5		0.032	0.387	0.036	0.000	0.032	0.387
	Right Edge	5	0.859				0.000	0.859	0.859
LTE Band 12	Front Surface	5	0.658	0.015	0.120	0.021	0.000	0.673	0.778
	Back Surface	5	1.005	0.012	0.074	0.014	0.000	1.017	1.079
	Top Edge	5	0.272				0.000	0.272	0.272
	Left Edge	5		0.032	0.387	0.036	0.000	0.032	0.387
	Right Edge	5	0.559				0.000	0.559	0.559
LTE Band 13	Front Surface	5	0.600	0.015	0.120	0.021	0.000	0.615	0.720
	Back Surface	5	0.836	0.012	0.074	0.014	0.000	0.848	0.910
	Top Edge	5	0.205				0.000	0.205	0.205
	Left Edge	5		0.032	0.387	0.036	0.000	0.032	0.387
	Right Edge	5	0.542				0.000	0.542	0.542
LTE Band 25	Front Surface	5	0.189	0.015	0.120	0.021	0.000	0.204	0.309
	Back Surface	5	0.362	0.012	0.074	0.014	0.000	0.374	0.436
	Top Edge	5	0.063				0.000	0.063	0.063
	Left Edge	5		0.032	0.387	0.036	0.000	0.032	0.387
	Right Edge	5	1.073				0.000	1.073	1.073
LTE Band 66	Front Surface	5	0.251	0.015	0.120	0.021	0.000	0.266	0.371
	Back Surface	5	0.600	0.012	0.074	0.014	0.000	0.612	0.674
	Top Edge	5	0.052				0.000	0.052	0.052
	Left Edge	5		0.032	0.387	0.036	0.000	0.032	0.387
	Right Edge	5	1.157				0.000	1.157	1.157

8.4 Conclusion

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

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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	1751	Mar/27/2025	Mar/26/2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Mar/24/2025	Mar/23/2026
SPEAG	System Validation Dipole	D750V3	1015	Sep/26/2025	Sep/25/2026
SPEAG	System Validation Dipole	D835V2	4d063	Sep/09/2025	Sep/08/2026
SPEAG	System Validation Dipole	D1750V2	1008	Sep/28/2025	Sep/27/2026
SPEAG	System Validation Dipole	D1900V2	5d173	Apr/16/2025	Apr/15/2026
SPEAG	System Validation Dipole	D2450V2	727	Apr/15/2025	Apr/14/2026
SPEAG	System Validation Dipole	D2600V2	1005	Jan/14/2025	Jan/13/2026
SPEAG	System Validation Dipole	D5GHzV2	1349	Mar/19/2024	Mar/18/2027
SPEAG	Dielectric Assessment Kit	DAK-3.5	1342	May/19/2025	May/18/2026
Keysight	EXA Signal Analyzer	N9010B	MY59071573	Jun/03/2025	Jun/02/2026
Agilent	Dual-directional coupler	772D	MY52180142	Nov/13/2025	Nov/12/2026
Agilent	Dual-directional coupler	778D	MY52180302	Nov/13/2025	Nov/12/2026
R&S	Power Meter	NRX	102034	Dec/27/2024	Dec/26/2025
R&S	Power Sensor	NRP18S	101974	Nov/26/2025	Nov/25/2026
R&S	Power Sensor	NRP8S	109066	Nov/03/2025	Nov/02/2026
Agilent	Network Analyzer	E5071C	MY46107530	Apr/24/2025	Apr/23/2026
Keysight	Economy calibration kit	85032E	MY61410221	May/29/2025	May/28/2026
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
R&S	Radio Communication Test	CMW 500	125470	May/15/2025	May/14/2026
TECPEL	Digital thermometer	DTM-303A	TP130077	Oct/03/2025	Oct/02/2026

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f (886-2) 2298-0488

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10 UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

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	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√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	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√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	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	3.50%	N	1	1	0.64	0.43	2.24%	1.51%	M
Liquid Conductivity (mea.)	3.92%	N	1	1	0.6	0.49	2.35%	1.92%	M
Combined standard uncertainty		RSS					12.16%	11.96%	
Expart uncertainty (95% confidence interval), K=2							24.32%	23.92%	

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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 Distribution	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%	∞
<i>Isotropy, Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	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.)	3.22%	N	1	1	0.64	0.43	2.06%	1.38%	M
Liquid Conductivity (mea.)	4.05%	N	1	1	0.6	0.49	2.43%	1.98%	M
Combined standard uncertainty		RSS					11.85%	11.66%	
Expart uncertainty (95% confidence interval), K=2							23.71%	23.32%	

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11 SAR MEASUREMENT RESULTS

Date: 2025/12/17

ID: 001

Report No. :TESA2507000546ES

LTE Band 5 (10MHz)_Body_Back Surface_CH 20600_QPSK_1-0_5mm

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

Medium parameters used: $f = 844$ MHz; $\sigma = 0.890$ S/m; $\epsilon_r = 40.496$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(10.55, 9.93, 9.85) @ 844 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.617 W/kg

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

Reference Value = 10.52 V/m; Power Drift = 0.07 dB

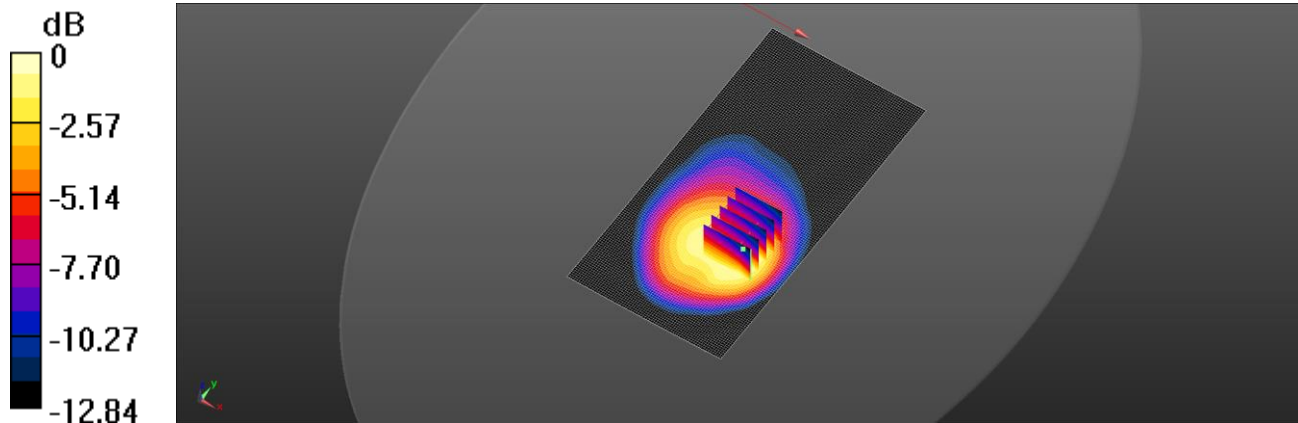
Peak SAR (extrapolated) = 0.656 W/kg

SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.270 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 64.7%

Maximum value of SAR (measured) = 0.555 W/kg



0 dB = 0.555 W/kg = -2.56 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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Date: 2025/12/17

ID: 002

Report No. :TESA2507000546ES

LTE Band 12 (10MHz)_Body_Back Surface_CH 23130_QPSK_1-0_5mm

Communication System: LTE; Frequency: 711 MHz; Duty cycle= 1:1

Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.868 \text{ S/m}$; $\epsilon_r = 41.139$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(10.83, 10.18, 10.1) @ 711 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.01 W/kg

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

Reference Value = 19.78 V/m; Power Drift = 0.12 dB

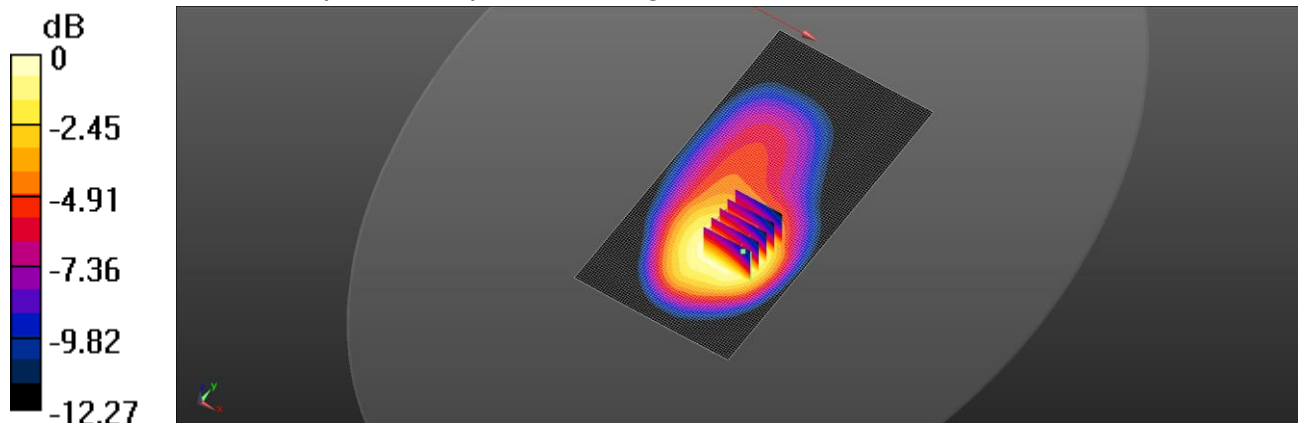
Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.571 W/kg

Smallest distance from peaks to all points 3 dB below = 27.2 mm

Ratio of SAR at M2 to SAR at M1 = 72.7%

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2025/12/17

ID: 003

Report No. :TESA2507000546ES

LTE Band 13 (10MHz)_Body_Back Surface_CH 23230_QPSK_1-0_5mm

Communication System: LTE; Frequency: 782 MHz; Duty cycle= 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.872 \text{ S/m}$; $\epsilon_r = 40.772$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(10.83, 10.18, 10.1) @ 782 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.815 W/kg

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

Reference Value = 13.65 V/m; Power Drift = -0.07 dB

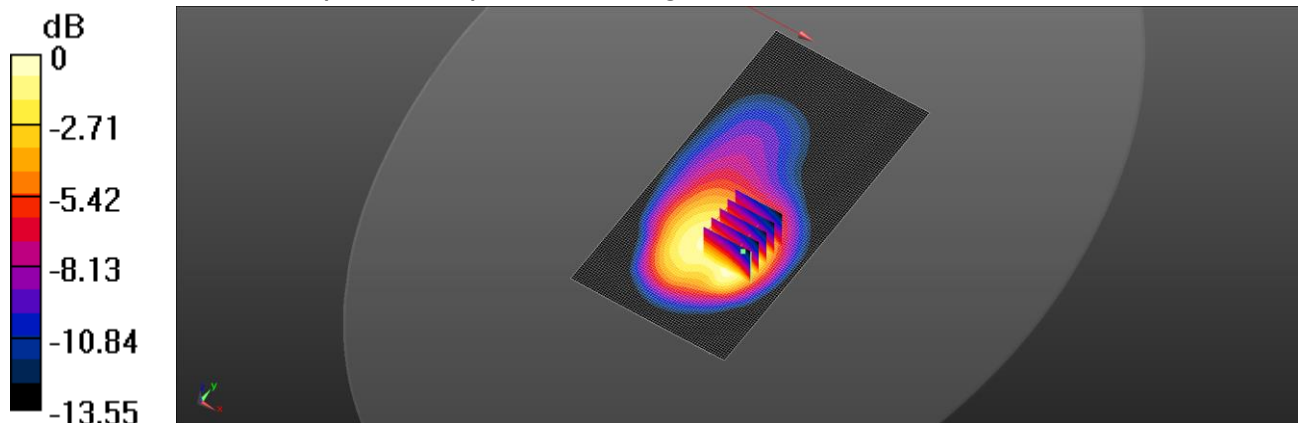
Peak SAR (extrapolated) = 0.846 W/kg

SAR(1 g) = 0.546 W/kg; SAR(10 g) = 0.364 W/kg

Smallest distance from peaks to all points 3 dB below = 15.2 mm

Ratio of SAR at M2 to SAR at M1 = 62.3%

Maximum value of SAR (measured) = 0.737 W/kg



0 dB = 0.737 W/kg = -1.33 dBW/kg

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2025/12/18

ID: 004

Report No. :TESA2507000546ES

LTE Band 2 (20MHz)_Body_Right Edge_CH 18900_QPSK_1-0_25mm

Communication System: LTE; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.388 \text{ S/m}$; $\epsilon_r = 40.197$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.42, 7.92, 7.86) @ 1880 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.36 W/kg

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

Reference Value = 4.741 V/m; Power Drift = -0.09 dB

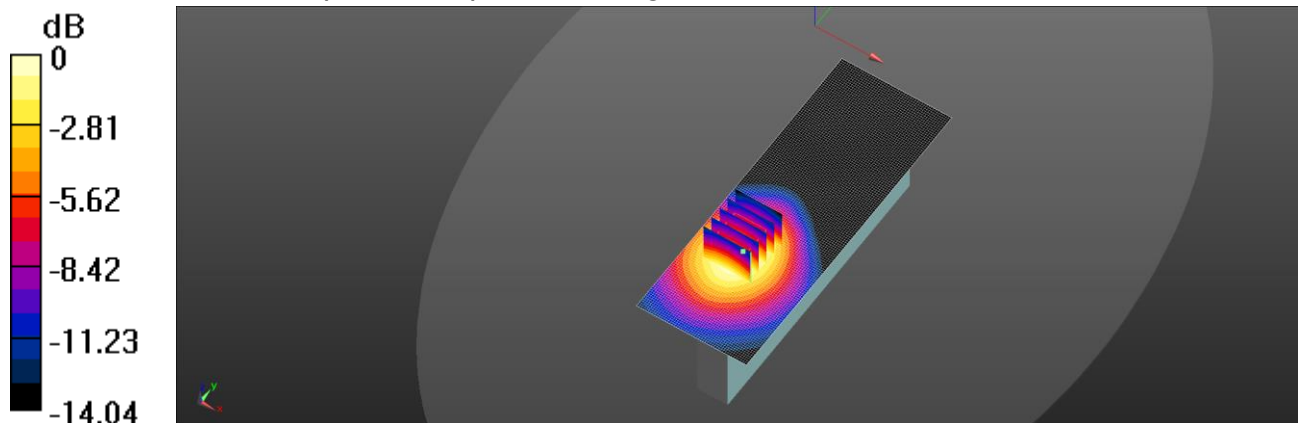
Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.894 W/kg; SAR(10 g) = 0.566 W/kg

Smallest distance from peaks to all points 3 dB below = 18.7 mm

Ratio of SAR at M2 to SAR at M1 = 66%

Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

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Date: 2025/12/17

ID: 005

Report No. :TESA2507000546ES

LTE Band 4 (20MHz)_Body_Right Edge_CH 20300_QPSK_1-0_25mm

Communication System: LTE; Frequency: 1745 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.348$ S/m; $\epsilon_r = 40.394$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.72, 8.2, 8.13) @ 1745 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.790 W/kg

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

Reference Value = 2.581 V/m; Power Drift = 0.15 dB

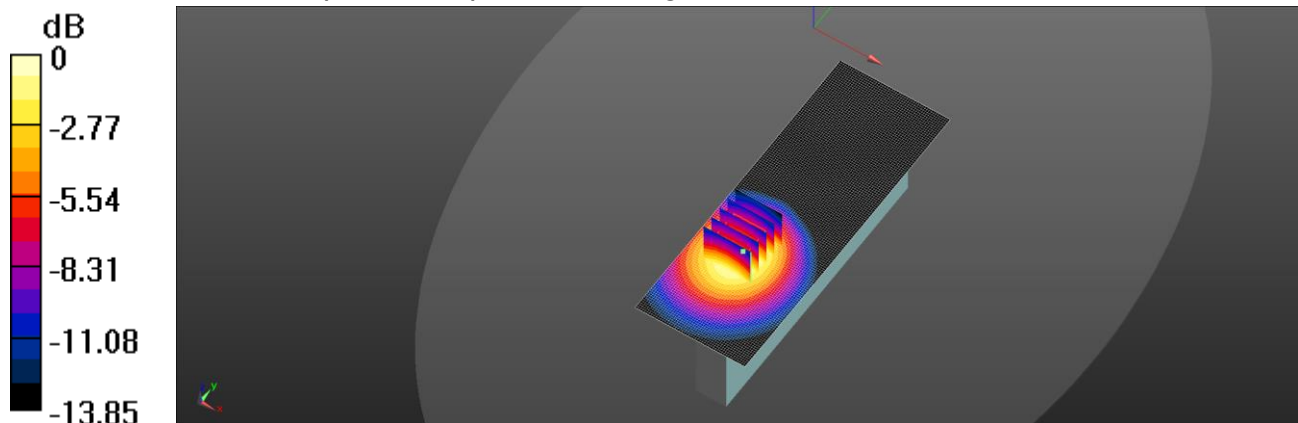
Peak SAR (extrapolated) = 0.883 W/kg

SAR(1 g) = 0.593 W/kg; SAR(10 g) = 0.378 W/kg

Smallest distance from peaks to all points 3 dB below = 19.5 mm

Ratio of SAR at M2 to SAR at M1 = 67.1%

Maximum value of SAR (measured) = 0.776 W/kg



0 dB = 0.776 W/kg = -1.10 dBW/kg

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Date: 2025/12/18

ID: 006

Report No. :TESA2507000546ES

LTE Band 7 (20MHz)_Body_Right Edge_CH 21350_QPSK_1-0_25mm

Communication System: LTE; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.995$ S/m; $\epsilon_r = 40.311$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.61, 7.16, 7.1) @ 2560 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.367 W/kg

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

Reference Value = 4.571 V/m; Power Drift = -0.06 dB

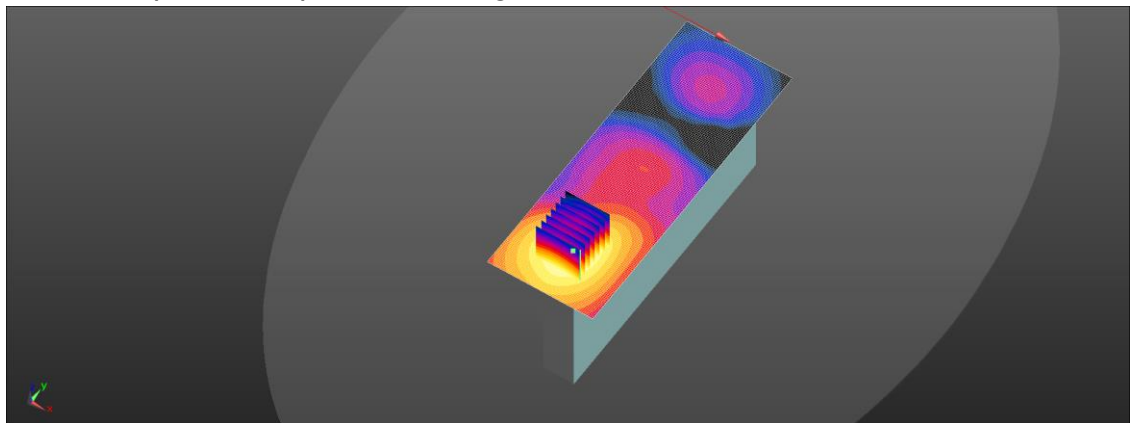
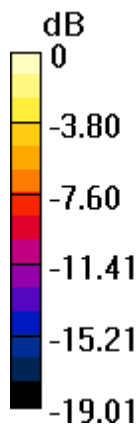
Peak SAR (extrapolated) = 0.459 W/kg

SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.147 W/kg

Smallest distance from peaks to all points 3 dB below = 16.3 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 0.386 W/kg



0 dB = 0.386 W/kg = -4.13 dBW/kg

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Date: 2025/12/18

ID: 007

Report No. :TESA2507000546ES

LTE Band 25 (20MHz)_Body_Right Edge_CH 26590_QPSK_1-0_25mm

Communication System: LTE; Frequency: 1905 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1905 \text{ MHz}$; $\sigma = 1.401 \text{ S/m}$; $\epsilon_r = 40.157$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.42, 7.92, 7.86) @ 1905 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

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

Reference Value = 4.920 V/m; Power Drift = 0.06 dB

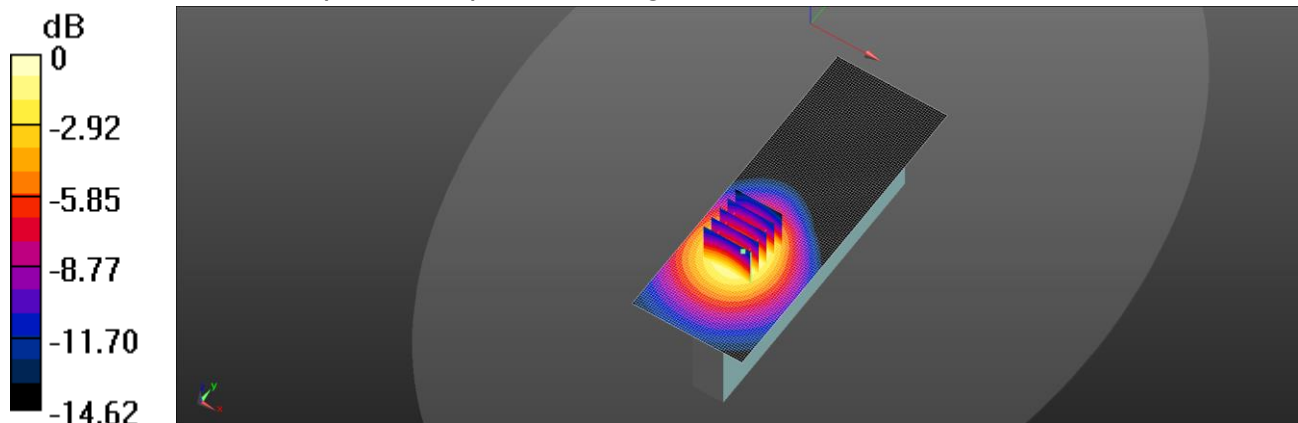
Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.763 W/kg; SAR(10 g) = 0.477 W/kg

Smallest distance from peaks to all points 3 dB below = 18.7 mm

Ratio of SAR at M2 to SAR at M1 = 65.7%

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2025/12/17

ID: 008

Report No. :TESA2507000546ES

LTE Band 66 (20MHz)_Body_Right Edge_CH 132572_QPSK_1-0_25mm

Communication System: LTE; Frequency: 1770 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1770$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 40.367$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.72, 8.2, 8.13) @ 1770 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.35 W/kg

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

Reference Value = 4.201 V/m; Power Drift = -0.02 dB

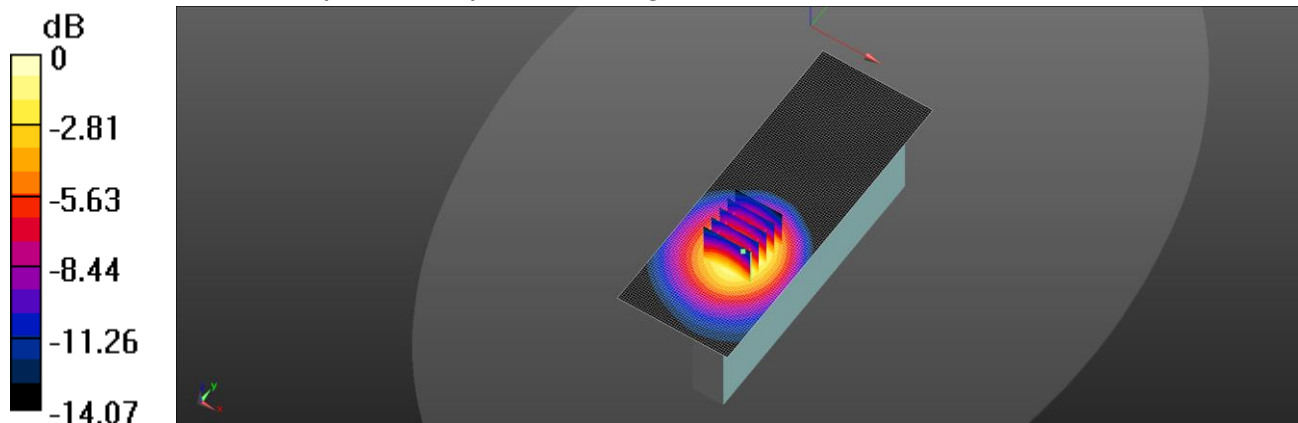
Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.985 W/kg; SAR(10 g) = 0.615 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 67%

Maximum value of SAR (measured) = 1.32 W/kg



0 dB = 1.32 W/kg = 1.21 dBW/kg

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Date: 2025/12/18

ID: 009

Report No. :TESA2507000546ES

LTE Band 2 (20MHz)_Body_Right Edge_CH 18900_QPSK_1-0_5mm

Communication System: LTE; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.388 \text{ S/m}$; $\epsilon_r = 40.197$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.42, 7.92, 7.86) @ 1880 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x141x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 1.87 W/kg

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

Reference Value = 6.032 V/m; Power Drift = -0.06 dB

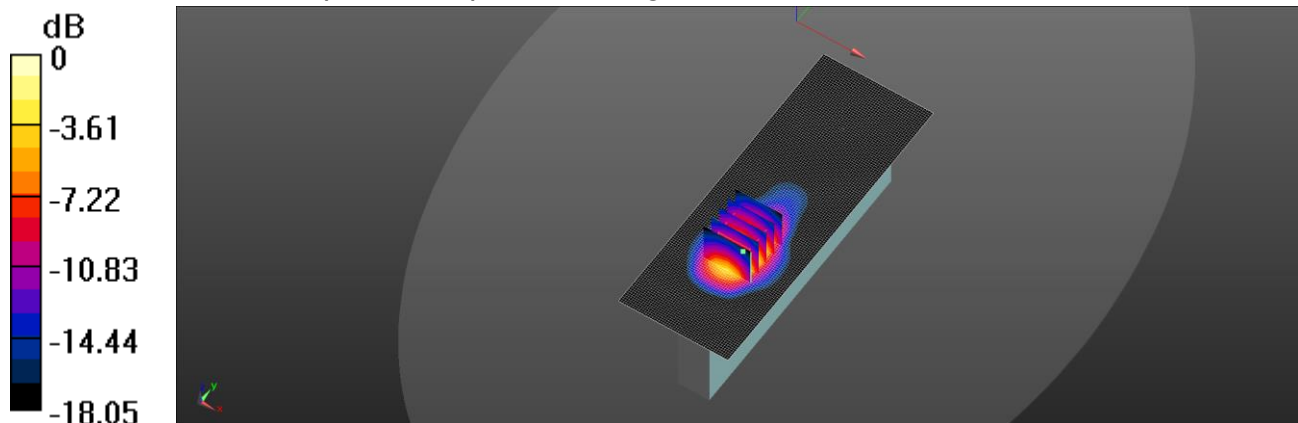
Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.552 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 56.7%

Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.65 W/kg = 2.17 dBW/kg

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f (886-2) 2298-0488

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Date: 2025/12/17

ID: 010

Report No. :TESA2507000546ES

LTE Band 4 (20MHz)_Body_Right Edge_CH 20300_QPSK_1-0_5mm

Communication System: LTE; Frequency: 1745 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.348 \text{ S/m}$; $\epsilon_r = 40.394$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.72, 8.2, 8.13) @ 1745 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x141x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 1.73 W/kg

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

Reference Value = 5.518 V/m; Power Drift = 0.08 dB

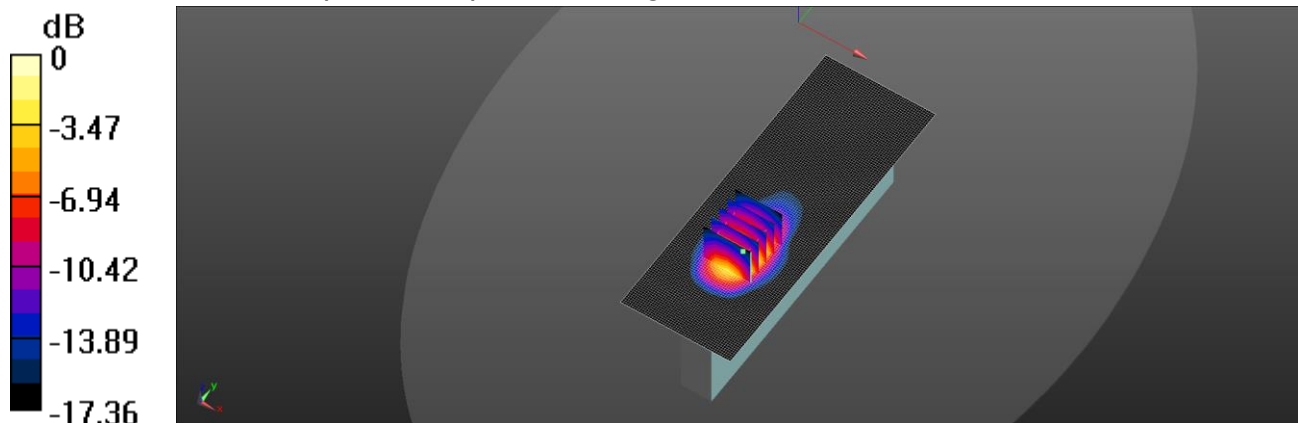
Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.528 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

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f (886-2) 2298-0488

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Date: 2025/12/18

ID: 011

Report No. :TESA2507000546ES

LTE Band 7 (20MHz)_Body_Right Edge_CH 21350_QPSK_1-0_5mm

Communication System: LTE; Frequency: 2560 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.995$ S/m; $\epsilon_r = 40.311$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.61, 7.16, 7.1) @ 2560 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

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

Reference Value = 5.984 V/m; Power Drift = 0.11 dB

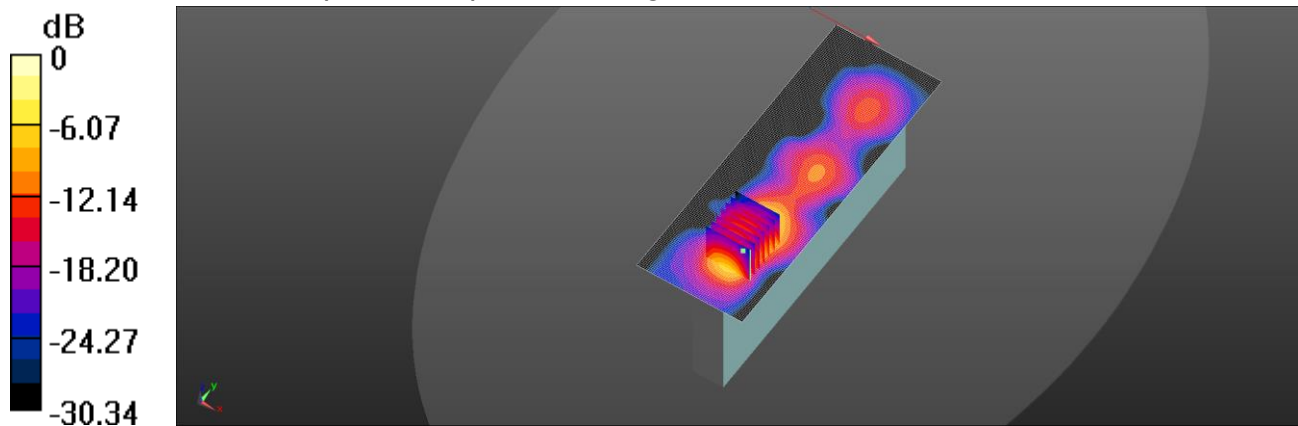
Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.793 W/kg; SAR(10 g) = 0.314 W/kg

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 48.6%

Maximum value of SAR (measured) = 1.42 W/kg



0 dB = 1.42 W/kg = 1.52 dBW/kg

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Date: 2025/12/18

ID: 012

Report No. :TESA2507000546ES

LTE Band 25 (20MHz)_Body_Right Edge_CH 26590_QPSK_1-0_5mm

Communication System: LTE; Frequency: 1905 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1905$ MHz; $\sigma = 1.401$ S/m; $\epsilon_r = 40.157$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.42, 7.92, 7.86) @ 1905 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.73 W/kg

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

Reference Value = 5.723 V/m; Power Drift = -0.15 dB

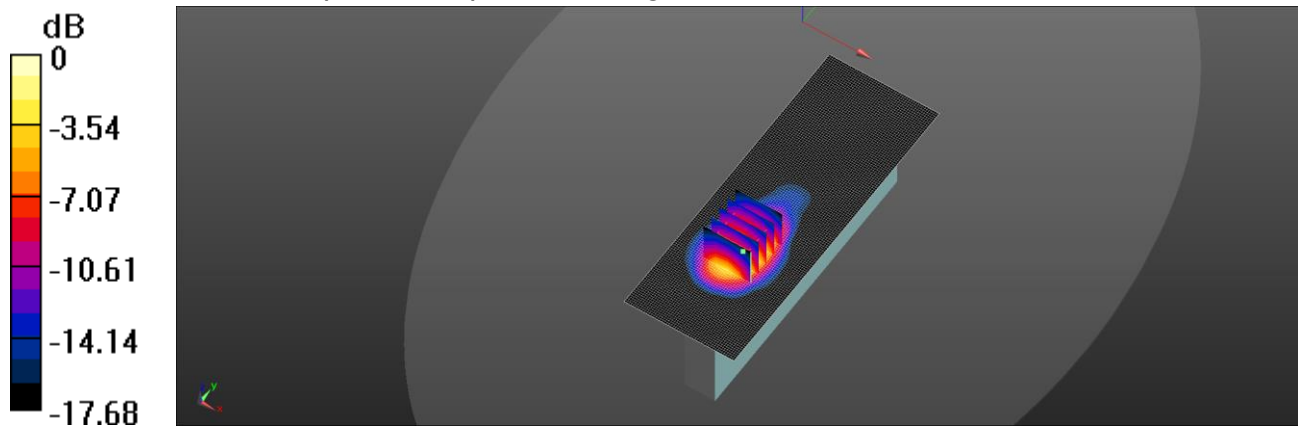
Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.990 W/kg; SAR(10 g) = 0.514 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

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Date: 2025/12/17

ID: 013

Report No. :TESA2507000546ES

LTE Band 66 (20MHz)_Body_Right Edge_CH 132572_QPSK_1-0_5mm

Communication System: LTE; Frequency: 1770 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1770$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 40.367$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.72, 8.2, 8.13) @ 1770 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.40 W/kg

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

Reference Value = 9.629 V/m; Power Drift = 0.02 dB

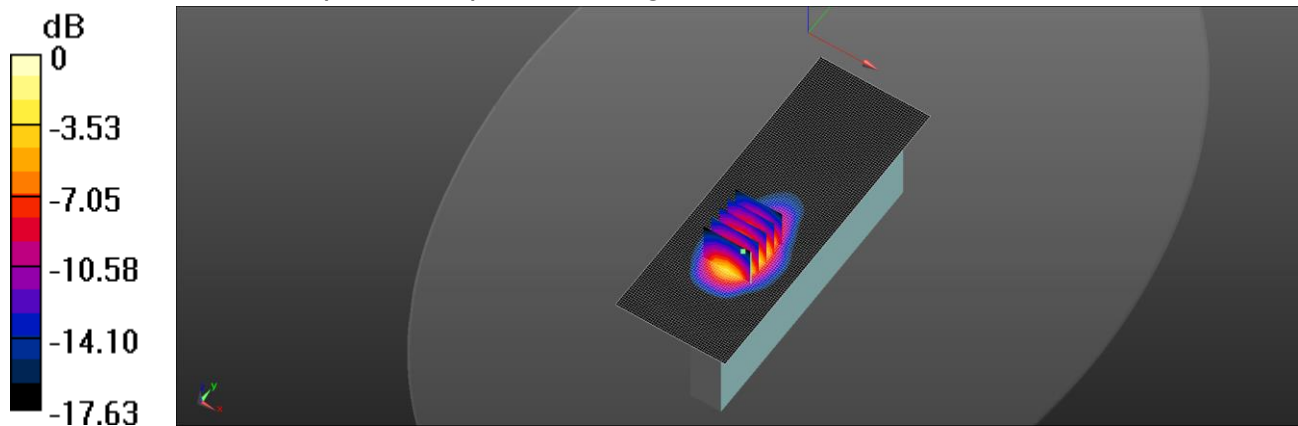
Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.762 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 60.5%

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

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Date: 2025/12/18

ID: 014

Report No. :TESA2507000546ES

WLAN 802.11b_Body_Left Edge_CH 6_5mm

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 40.051$.; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.78, 7.32, 7.26) @ 2437 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0777 W/kg

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

Reference Value = 7.153 V/m; Power Drift = 0.03 dB

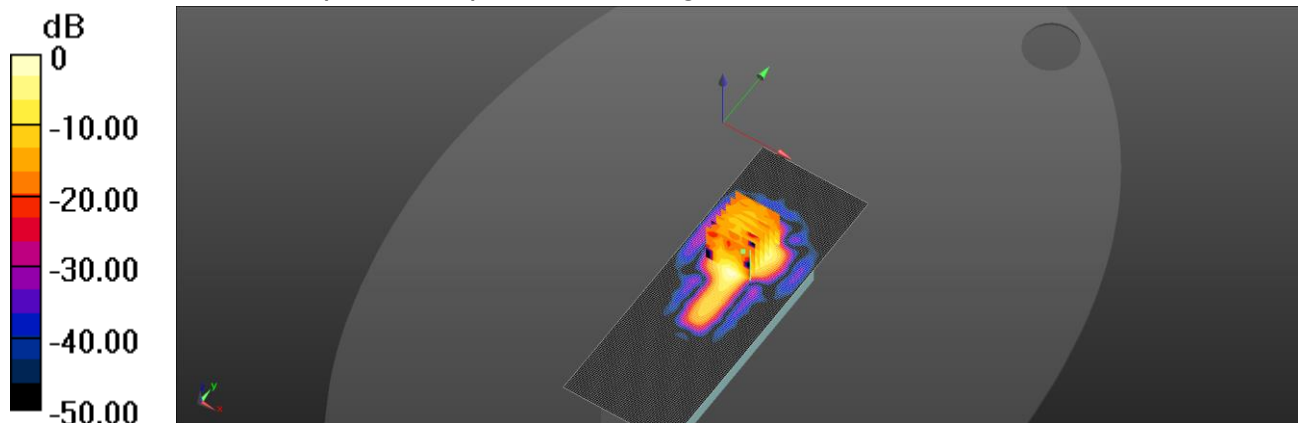
Peak SAR (extrapolated) = 0.0630 W/kg

SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.013 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 = 48.8%

Maximum value of SAR (measured) = 0.0480 W/kg



0 dB = 0.0480 W/kg = -13.19 dBW/kg

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2025/12/18

ID: 015

Report No. :TESA2507000546ES

Bluetooth(GFSK)_Body_Left Edge_CH 39_5mm

Communication System: Bluetooth; Frequency: 2441 MHz; Duty cycle= 1:1.328

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.853$ S/m; $\epsilon_r = 39.981$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.78, 7.32, 7.26) @ 2441 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x171x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0480 W/kg

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

Reference Value = 2.589 V/m; Power Drift = 0.09 dB

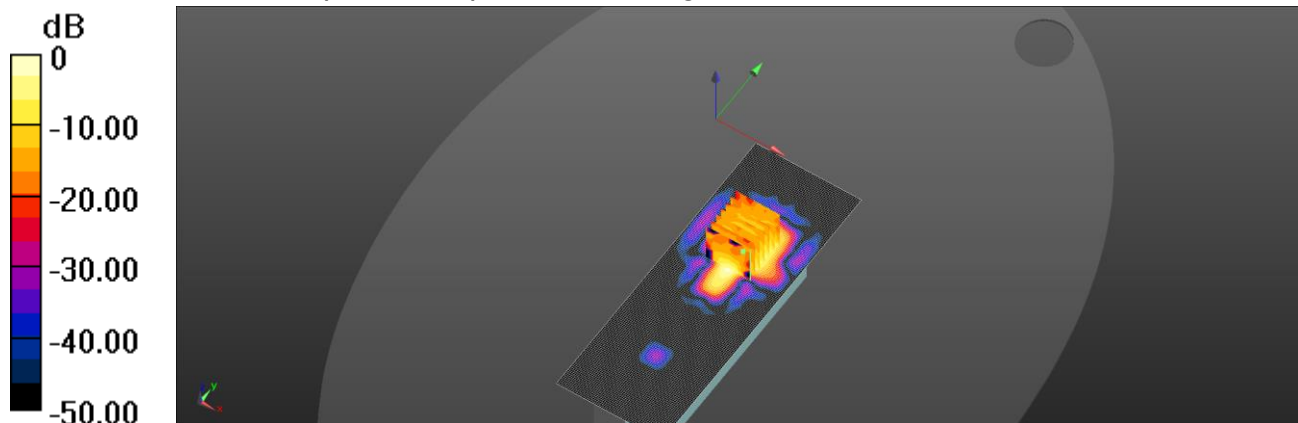
Peak SAR (extrapolated) = 0.0420 W/kg

SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00863 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 = 47.2%

Maximum value of SAR (measured) = 0.0335 W/kg



0 dB = 0.0335 W/kg = -14.75 dBW/kg

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Date: 2025/12/19

ID: 016

Report No. :TESA2507000546ES

WLAN 802.11a 5.2G_Body_Left Edge_CH 44_5mm

Communication System: WLAN 5G; Frequency: 5220 MHz; Duty cycle= 1:1.031

Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 4.863 \text{ S/m}$; $\epsilon_r = 34.889$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(6.2, 5.83, 5.78) @ 5220 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x211x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.639 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.894 V/m; Power Drift = 0.05 dB

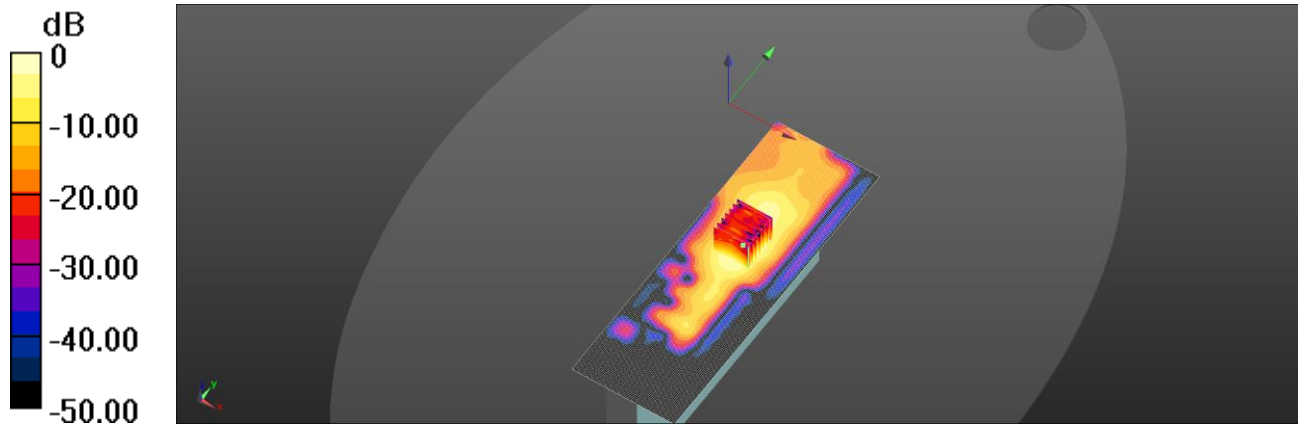
Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.090 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 0.688 W/kg



0 dB = 0.688 W/kg = -1.62 dBW/kg

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Date: 2025/12/19

ID: 017

Report No. :TESA2507000546ES

WLAN 802.11n(40M) 5.3G_Body_Left Edge_CH 54_5mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty cycle= 1:1.061

Medium parameters used: $f = 5270$ MHz; $\sigma = 4.912$ S/m; $\epsilon_r = 34.801$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(6.2, 5.83, 5.78) @ 5270 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x211x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.437 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.034 V/m; Power Drift = -0.03 dB

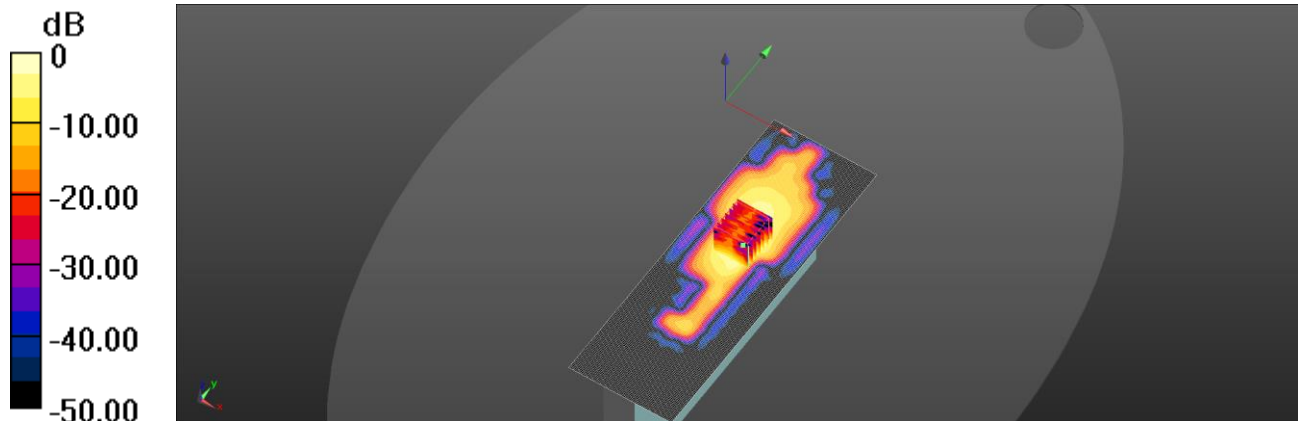
Peak SAR (extrapolated) = 0.828 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.053 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 0.435 W/kg



0 dB = 0.435 W/kg = -3.62 dBW/kg

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Date: 2025/12/19

ID: 018

Report No. :TESA2507000546ES

WLAN 802.11ac(80M) 5.6G_Body_Left Edge_CH 106_5mm

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.022

Medium parameters used: $f = 5530$ MHz; $\sigma = 4.931$ S/m; $\epsilon_r = 34.358$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.71, 5.37, 5.32) @ 5530 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x211x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.794 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.455 V/m; Power Drift = 0.01 dB

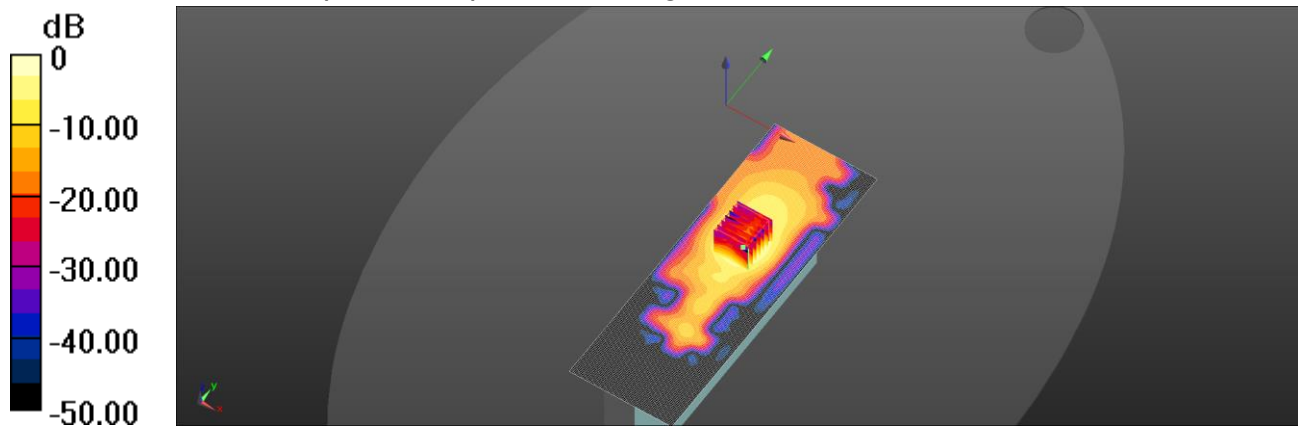
Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.354 W/kg; SAR(10 g) = 0.112 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 49.8%

Maximum value of SAR (measured) = 0.854 W/kg



0 dB = 0.854 W/kg = -0.69 dBW/kg

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Date: 2025/12/19

ID: 019

Report No. :TESA2507000546ES

WLAN 802.11n(40M) 5.8G_Body_Left Edge_CH 151_5mm

Communication System: WLAN 5G; Frequency: 5755 MHz; Duty cycle= 1:1.061

Medium parameters used: $f = 5755$ MHz; $\sigma = 5.137$ S/m; $\epsilon_r = 34.123$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(5.75, 5.4, 5.36) @ 5755 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x211x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.614 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.429 V/m; Power Drift = 0.02 dB

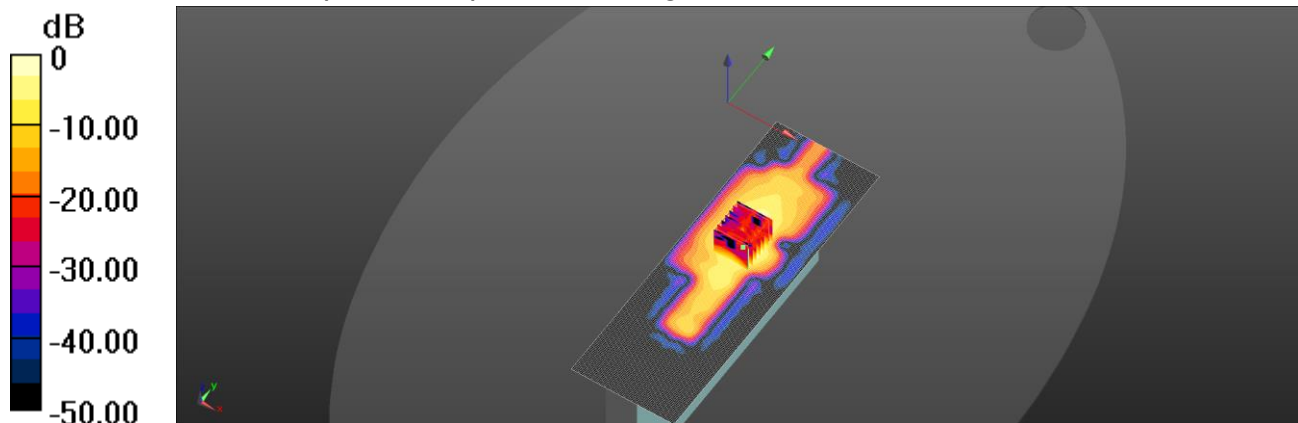
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.073 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 46.8%

Maximum value of SAR (measured) = 0.622 W/kg



0 dB = 0.622 W/kg = -2.06 dBW/kg

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12 SAR SYSTEM CHECK RESULTS

Date: 2025/12/17

Report No. :TESA2507000546ES

Dipole 750 MHz_SN:1015

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

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.871 \text{ S/m}$; $\epsilon_r = 40.927$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(10.83, 10.18, 10.1) @ 750 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.55 W/kg

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

Reference Value = 57.86 V/m; Power Drift = -0.05 dB

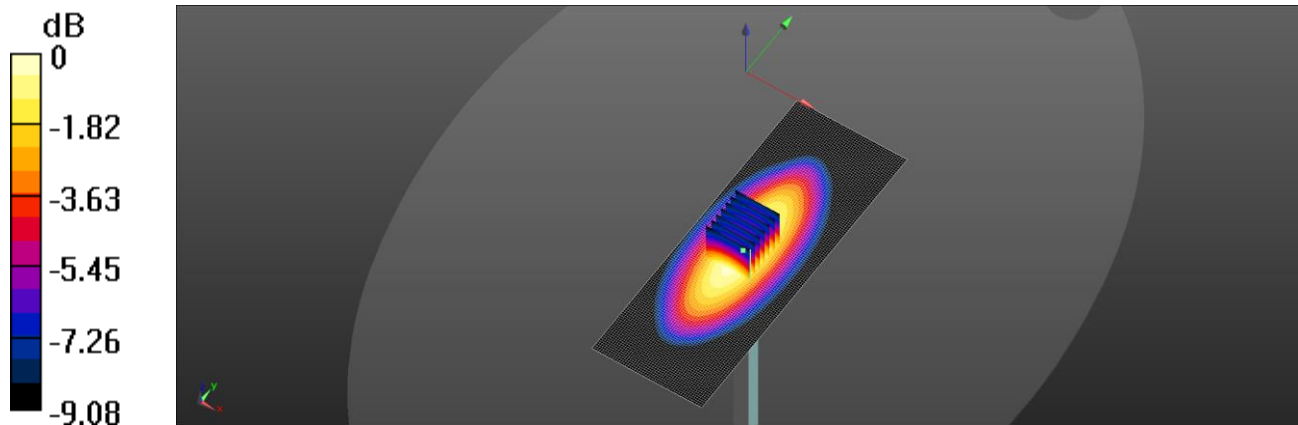
Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.47 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 = 72.6%

Maximum value of SAR (measured) = 2.56 W/kg



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Date: 2025/12/17

Report No. :TESA2507000546ES

Dipole 835 MHz_SN:4d063

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.882 \text{ S/m}$; $\epsilon_r = 40.501$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(10.55, 9.93, 9.85) @ 835 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.82 W/kg

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

Reference Value = 61.59 V/m; Power Drift = -0.02 dB

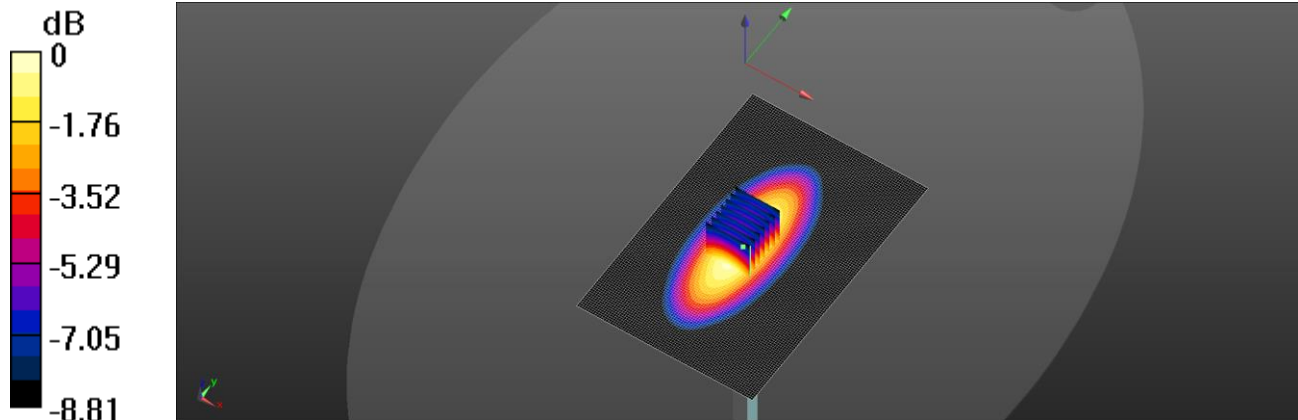
Peak SAR (extrapolated) = 3.19 W/kg

SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.66 W/kg

Smallest distance from peaks to all points 3 dB below = 21.2 mm

Ratio of SAR at M2 to SAR at M1 = 73.5%

Maximum value of SAR (measured) = 2.86 W/kg



0 dB = 2.86 W/kg = 4.56 dBW/kg

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Date: 2025/12/17

Report No. :TESA2507000546ES**Dipole 1750 MHz_SN:1008**

Communication System: CW; Frequency: 1750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.35$ S/m; $\epsilon_r = 40.389$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.38, 6.95, 6.92) @ 1008 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.1 W/kg

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

Reference Value = 89.64 V/m; Power Drift = -0.02 dB

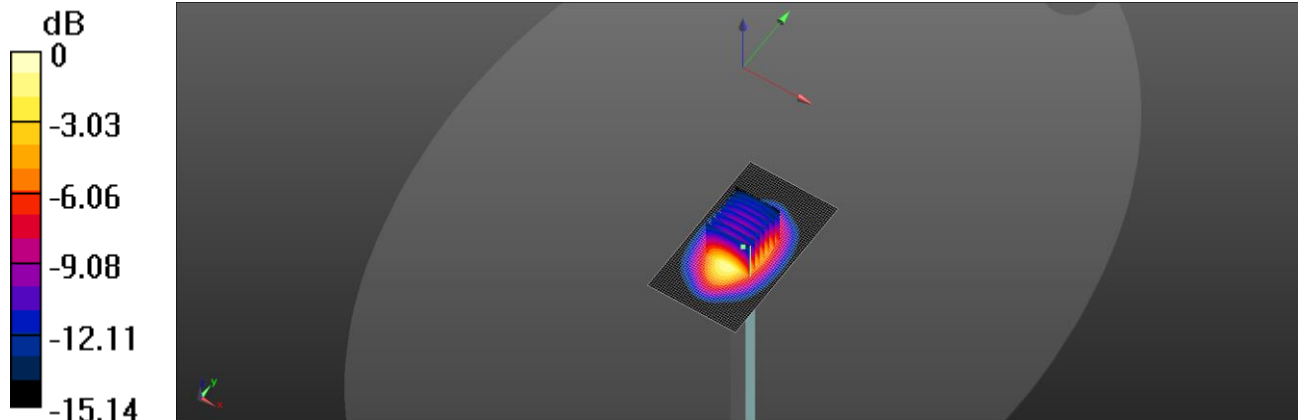
Peak SAR (extrapolated) = 15.5 W/kg

SAR(1 g) = 9.3 W/kg; SAR(10 g) = 5.25 W/kg

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 60.2%

Maximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.6 W/kg = 11.00 dBW/kg

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2025/12/18

Report No. :TESA2507000546ES

Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 40.177$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.38, 6.95, 6.92) @ 1900 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.4 W/kg

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

Reference Value = 95.99 V/m; Power Drift = -0.03 dB

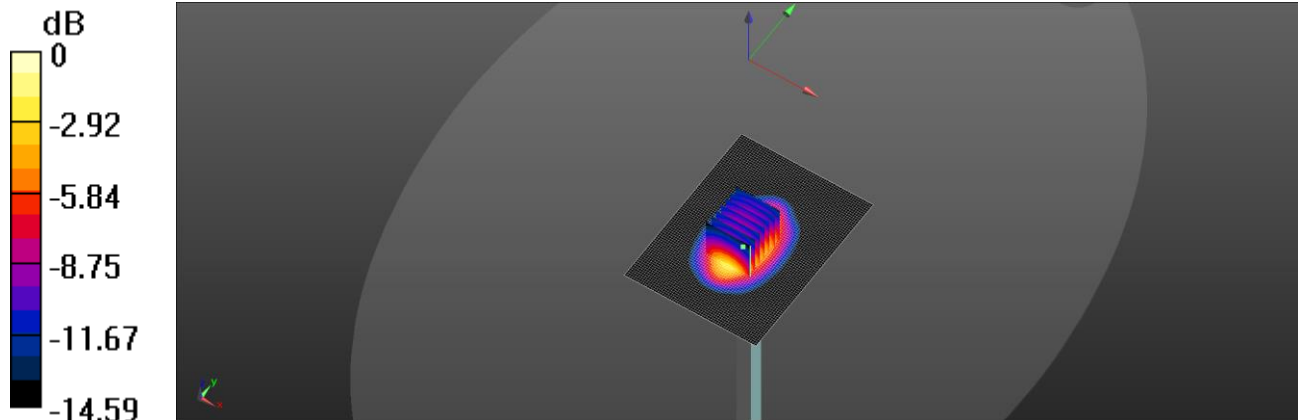
Peak SAR (extrapolated) = 14.4 W/kg

SAR(1 g) = 9.04 W/kg; SAR(10 g) = 5.19 W/kg

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 62.8%

Maximum value of SAR (measured) = 12.7 W/kg



0 dB = 12.7 W/kg = 11.04 dBW/kg

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Date: 2025/12/18

Report No. :TESA2507000546ES

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.037$ S/m; $\epsilon_r = 40.178$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.38, 6.95, 6.92) @ 2600 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 23.2 W/kg

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

Reference Value = 103.0 V/m; Power Drift = 0.11 dB

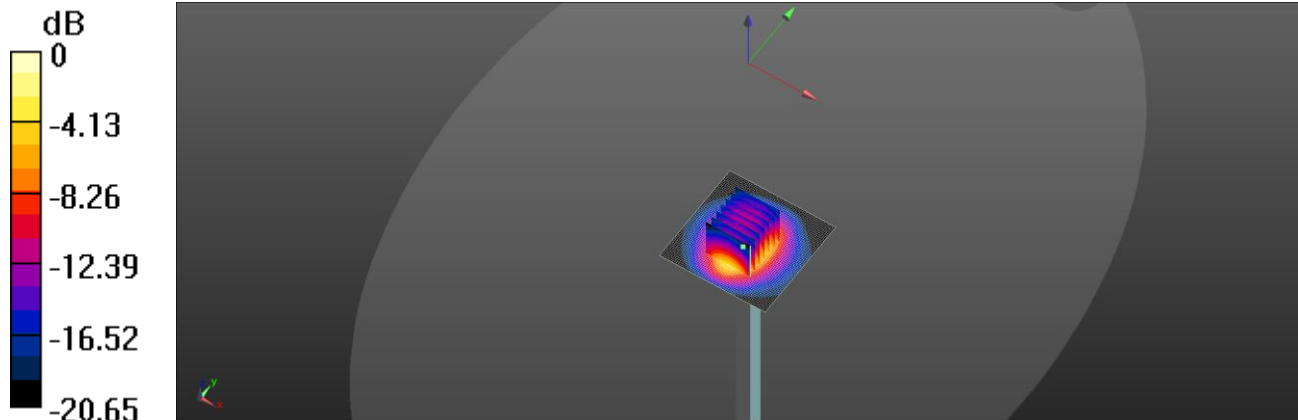
Peak SAR (extrapolated) = 26.0 W/kg

SAR(1 g) = 14 W/kg; SAR(10 g) = 6.65 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 22.0 W/kg



0 dB = 22.0 W/kg = 13.42 dBW/kg

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f (886-2) 2298-0488

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Date: 2025/12/18

Report No. :TESA2507000546ES

Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.862$ S/m; $\epsilon_r = 39.972$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.38, 6.95, 6.92) @ 2450 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 20.7 W/kg

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

Reference Value = 100.7 V/m; Power Drift = -0.03 dB

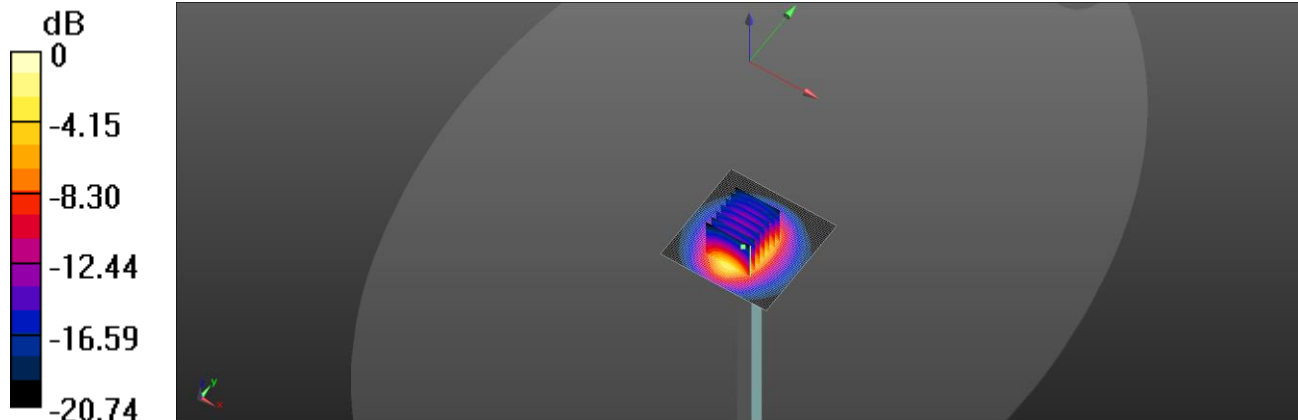
Peak SAR (extrapolated) = 23.5 W/kg

SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.83 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 52%

Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.94 dBW/kg

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Date: 2025/12/19

Report No. :TESA2507000546ES

Dipole 5250 MHz_SN:1349

Communication System: CW; Frequency: 5250 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.895$ S/m; $\epsilon_r = 34.839$; $\rho = 1050$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.38, 6.95, 6.92) @ 5250 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 19.5 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.90 V/m; Power Drift = 0.03 dB

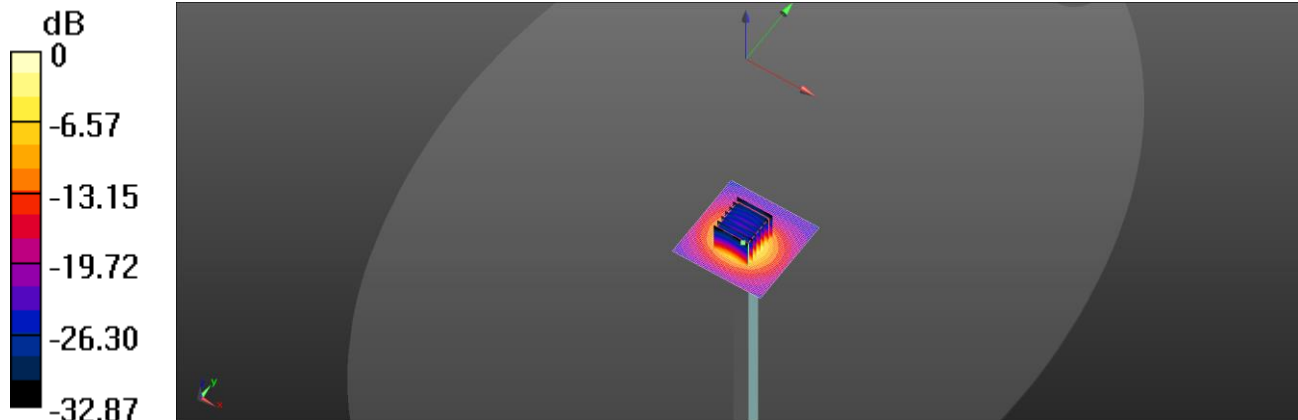
Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.3 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.8 W/kg = 12.97 dBW/kg

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f (886-2) 2298-0488

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Date: 2025/12/19

Report No. :TESA2507000546ES

Dipole 5600 MHz_SN:1349

Communication System: CW; Frequency: 5600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 4.989$ S/m; $\epsilon_r = 34.318$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.38, 6.95, 6.92) @ 5600 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 21.7 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.47 V/m; Power Drift = 0.04 dB

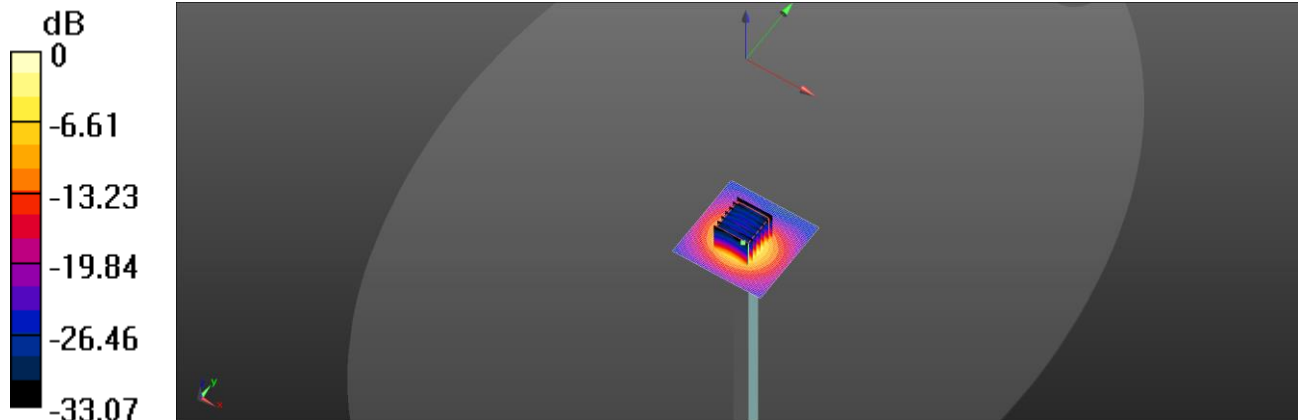
Peak SAR (extrapolated) = 38.6 W/kg

SAR(1 g) = 8.12 W/kg; SAR(10 g) = 2.34 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 48.3%

Maximum value of SAR (measured) = 21.4 W/kg



0 dB = 21.4 W/kg = 13.30 dBW/kg

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Date: 2025/12/19

Report No. :TESA2507000546ES

Dipole 5750 MHz_SN:1349

Communication System: CW; Frequency: 5750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.132$ S/m; $\epsilon_r = 34.148$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.38, 6.95, 6.92) @ 57550 MHz; Calibrated: 2025/3/24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1751; Calibrated: 2025/3/27
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 21.9 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.69 V/m; Power Drift = -0.08 dB

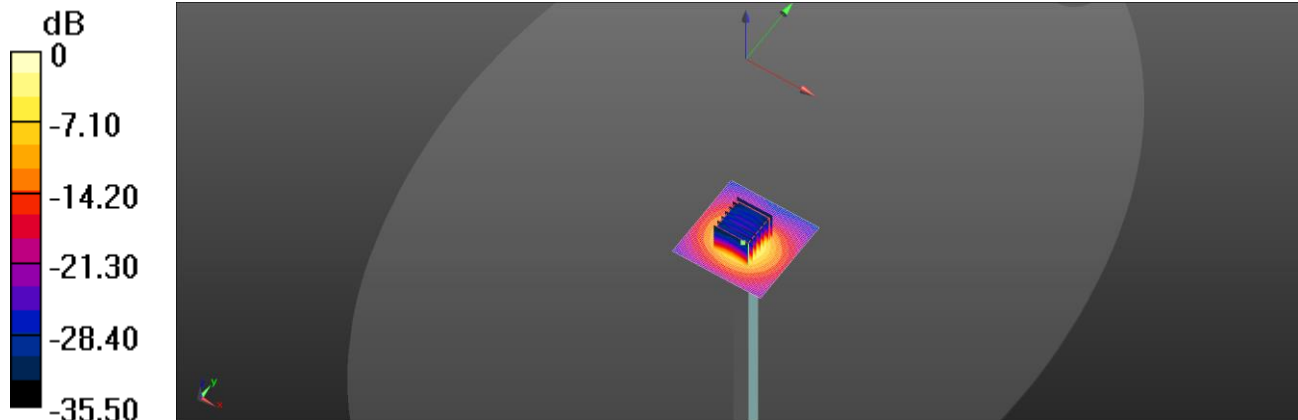
Peak SAR (extrapolated) = 41.4 W/kg

SAR(1 g) = 8.28 W/kg; SAR(10 g) = 2.35 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 47%

Maximum value of SAR (measured) = 22.2 W/kg



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f (886-2) 2298-0488

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13 APPENDIXES

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

13.4 SAR_Appendix D Dipole Extended Calibration Verification

- End of report -

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