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PART 0 SAR CHAR REPORT

Applicant Name:

Apple, Inc. One Apple Park Way Cupertino, CA 95014 **Date of Testing:**

06/23/2022 - 08/15/2022

Test Site/Location:

Element Washington DC LLC,

Morgan Hill, CA, USA **Document Serial No.:** 1C2205090023-20.BCG

FCC ID:

BCGA2757

APPLICANT:

APPLE, INC.

Report Type:

Part 0 SAR Characterization

DUT Type: Model(s):

Tablet Device A2757, A2777

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Test results reported herein relate only to the item(s) tested.

Executive Vice President





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DEVICE UNDER TEST

1.1 Device Overview

	,	1
Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.4 - 846.6 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n77 DoD	Data	3460.02 - 3540 MHz
NR Band n77 C	Data	3710.01 - 3969.99 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz

This device uses the Qualcomm® Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure is in compliance with the FCC requirement at all times for 2G/3G/4G/5G WWAN operations. Additionally, this device supports WLAN/BT technologies, but the output power of these modems is not controlled by the Smart Transmit algorithm.

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1.2 Time-Averaging for SAR and Power Density

This device is enabled with Qualcomm[®] Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 2G/3G/4G/5G Sub-6 NR WWAN is in compliance with FCC requirements. This Part 0 report shows SAR characterization of WWAN radios for 2G/3G/4G/5G Sub-6 NR. Characterization is achieved by determining P_{Limit} for 2G/3G/4G/5G Sub-6 NR that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR design target (< FCC SAR limit) for sub-6 radio. The SAR characterization is denoted as SAR Char in this report. Section 1.3 includes a nomenclature of the specific terms used in this report.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time- varying) transmission scenario for WWAN technologies are reported in Part 2 report (report SN could be found in Section 1.4 – Bibliography).

1.3 **Nomenclature for Part 0 Report**

Technology	Term	Description
20/20/40/50	P _{limit}	Power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related uncertainties
2G/3G/4G/5G Sub-6 NR	P_{max}	Maximum tune up output power
Sub-6 INK	SAR_design_target	Target SAR level < FCC SAR limit after accounting for all
		device design related uncertainties
	SAR Char	Table containing <i>Plimit</i> for all technologies and bands

1.4 **Bibliography**

Report Type	Report Serial Number
FCC SAR Evaluation Report (Part 1)	1C2205090023-21.BCG
RF Exposure Part 2 Test Report	1C2205090023-22.BCG
RF Exposure Compliance Summary	1C2205090023-23.BCG

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2 SAR AND POWER DENSITY MEASUREMENTS

2.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 2-1).

Equation 2-1 SAR Mathematical Equation

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

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

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

where:

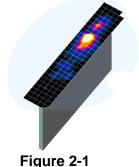
 σ = conductivity of the tissue-simulating material (S/m) ρ = mass density of the tissue-simulating material (kg/m³) E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

2.2 SAR Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

- 1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table) and IEEE 1528-2013.
- 2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.



Sample SAR Area Scan

3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table) and IEEE 1528-2013. On the

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basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):

- a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table . The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
- b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
- c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 2-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

	Maximum Area Scan			Maximum Zoom Scan Spatial Resolution (mm)		
Frequency	Resolution (mm) (Δx _{area} , Δy _{area})	Resolution (mm) (Δx _{200m} , Δy _{200m})	Uniform Grid	G	raded Grid	Volume (mm) (x,y,z)
	died / died/	1 20011 7 200117	Δz _{zoom} (n)	Δz _{zoom} (1)*	Δz _{zoom} (n>1)*	, ,,, ,
≤ 2 GHz	≤ 15	≤8	≤5	≤4	≤ 1.5*Δz _{zoom} (n-1)	≥ 30
2-3 GHz	≤ 12	≤5	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤5	≤4	≤3	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤4	≤3	≤2.5	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤2	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

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3 SAR CHARACTERIZATION

3.1 DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the tablet, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

The device state index (DSI) conditions used in Table 3-1 represent different exposure scenarios.

Table 3-1
DSI and Corresponding Exposure Scenarios

Scenario	Description	SAR Test Cases
(DSI = 1)	Detect Mode Activated	Tablet SAR per KDB Publication 616217 D04

3.2 SAR Design Target

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer (see Table 3-2).

Table 3-2 SAR design target Calculations

SAR_design_target					
$SAR_design_target < SAR_regulatory_limit imes 10^{rac{-Total\ Uncertainty}{10}}$					
1g SAR (W/kg)					
Total Uncertainty 1.0 dB					
SAR_regulatory_limit 1.6 W/kg					
SAR_design_target 0.8 W/kg					

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3.3 SAR Char

SAR test results corresponding to *Pmax* for each antenna/technology/band/DSI can be found in Appendix A.

Plimit is calculated by linearly scaling with the measured SAR at the Ppart0 to correspond to the SAR_design_target. When Plimit < Pmax, Ppart0 was used as Plimit in the Smart Transmit EFS. When Plimit > Pmax and Ppart0=Pmax, calculated Plimit was used in the Smart Transmit EFS. All reported SAR obtained from the Ppart0 SAR tests was less than SAR_Design_target+ 1 dB Uncertainty. The final Plimit determination for each exposure scenario corresponding to SAR_design_target are shown in Table 3-3.

Table 3-3 PLimit Determination

Device State Index (DSI)	PLimit Determination Scenarios
1	The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. Tablet SAR measured at 0 mm for Back, Top, Bottom, Right, Left surfaces

Note:

For DSI = 1, P_{limit} is calculated by:

 P_{limit} corresponding to 1g Tablet SAR evaluation at 0 mm for back, top, bottom, left and right surfaces

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Table 3-4 SAR Characterizations

SAN Characterizations									1		
Exposure Scenario:	Ant 1a/1b Body	Ant 1a/1b	Ant 2a/2b Body	Ant 2a/2b	Ant 3a/3b Body	Ant 3a/3b	Ant 4 Body	Ant 4 Maximum			
Averaging Volume:	1g	Maximum Tune- up	1g	Maximum Tune- up	1g	Maximum Tune- up	1g	Tune-up		Pmax target Tolerance (dB)	,
Spacing:	0 mm	Output Power*	0 mm	Output Power*	0 mm	Output Power*	0 mm	Output Power*	Manufacturer's Smart Transmit		Plimit target
DSI:	1		1	·	1		1		Uncertainty (dB)		Tolerance (dB)
Technology/Band	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax	Plimit corresponding to 0.8 W/kg	Pmax			
UMTS 850	N/A	N/A	N/A	N/A	15.90	24.50	17.30	25.00			
UMTS 1750	11.30	23.00	13.00	23.50	12.30	24.30	13.80	25.00			
UMTS 1900	10.80	23.00	13.20	23.50	10.80	24.30	13.00	25.00			
LTE Band 71	N/A	N/A	N/A	N/A	17.40	24.50	20.00	25.00			
LTE Band 12	N/A	N/A	N/A	N/A	17.10	24.50	18.90	25.00			
LTE Band 17	N/A	N/A	N/A	N/A	16.60	24.50	18.20	25.00			
LTE Band 13	N/A	N/A	N/A	N/A	16.80	24.50	19.40	25.00			
LTE Band 14	N/A	N/A	N/A	N/A	16.80	24.50	19.40	25.00			
LTE Band 26 (Cell)	N/A	N/A	N/A	N/A	15.90	24.50	17.30	25.00			
LTE Band 5 (Cell)	N/A	N/A	N/A	N/A	15.90	24.50	17.70	25.00			
LTE Band 5 ULCA (Cell)	N/A	N/A	N/A	N/A	15.90	24.50**	17.70	25.00**			
LTE Band 66 (AWS)	11.30	23.00	13.00	23.50	12.30	24.30	13.80	25.00			
LTE Band 66 ULCA (AWS)	11.30	23.30**	13.00	23.80**	12.30	24.60**	13.80	25.00**			
LTE Band 4 (AWS)	11.30	23.00	13.00	23.50	12.30	24.30	13.80	25.00			
LTE Band 25 (PCS)	10.80	23.00	13.20	23.50	10.80	24.30	13.00	25.00			
LTE Band 2 (PCS)	10.80	23.00	13.20	23.50	10.80	24.30	13.00	25.00			
LTE Band 30	14.00	22.50	14.00	23.50	11.70	21.50	10.60	21.10			
LTE Band 7	13.70	22.50	13.30	23.50	11.20	24.00	10.60	25.00			
LTE Band 7 ULCA	13.70	22.80**	13.30	23.30**	11.20	24.00**	10.60	25.00**	+/- 1.0	+0.7 /- 1.0	+/- 1.0
LTE Band 41 PC3	13.3	22.0^	13.3	22.7	11.9	23.0	10.8	23.0			
LTE Band 41 ULCA PC3	13.3	22.3**^	13.3	23.0**	11.9	23.0**	10.8	23.0**			
LTE Band 41 PC2	13.3	20.4^	13.3	21.4	11.9	21.9	10.8	22.9			
LTE Band 41 ULCA PC2	13.3	20.7**^	13.3	21.7**	11.9	22.2**	10.8	23.2**			
LTE Band 48	10.5	18.5	9.5	17.1	12.6	16.7	10.1	16.8			
LTE Band 48 ULCA	10.5	18.8**	9.5	17.1**	12.6	16.7**	10.1	16.8**			
NR Band n71	N/A	N/A	N/A	N/A	17.40	24.50	20.00	25.00			
NR Band n12	N/A	N/A	N/A	N/A	17.10	24.50	18.90	25.00			
NR Band n5 (Cell)	N/A	N/A	N/A	N/A	15.90	24.50	17.70	25.00			
NR Band n66 (AWS)	11.30	23.00	13.00	23.50	12.30	24.30	13.80	25.00			
NR Band n25 (PCS)	10.80	23.00	13.20	23.50	10.80	24.30	13.00	25.00	1		
NR Band n2 (PCS)	10.80	23.00	13.20	23.50	10.80	24.30	13.00	25.00	-		
NR Band n30	14.00	18.00	14.00	19.00	11.70	19.50	10.60	20.50	1		
NR Band n7	13.70	22.50	13.30	23.50	11.20	24.00	10.60	25.00	-		
NR Band n41 PC3	13.30	25.00	13.30	25.00	11.90	23.50	10.80	24.00	1		
NR Band n41 PC2	13.30	25.50	13.30	27.00	11.90	23.50	10.80	24.00	-		
NR Band n77 PC3	9.70	22.00	9.70	22.00	12.70	25.00	10.10	24.00			
NR Band n77 PC2	9.70	22.00	9.70	22.00	12.70	26.10	10.10	24.70	l]	l

Notes:

- 1. *Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power +0.7/-1.0 dB tolerance.
- 2. **When the combined ULCA BW is <= 20mhz, the power is 0.3dB lower.
- 3. $^{\circ}$ For frequency < 2507 MHz, LTE Band 41 P_{max} target is 1dB lower for Antenna 1b only.
- 4. All P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., LTE TDD).

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13 EQUIPMENT LIST

For SAR measurements

Note

- 1. CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.
- 2. Each equipment item was used solely within its respective calibration period.

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MEASUREMENT UNCERTAINTIES 14

For SAR Measurements

Rivieasurements									
a	b	С	d	e=	f	8	h =	i =	k
				f(d , k)			cx f/e	c x g/e	
	IEEE	Tol.	Prob.		c _i	c _i	1gm	10gms	
Uncertainty Component	1528 Sec.	(± %)	Dist.	Div.	1gm	10 gms	u:	u;	v;
	Sec.						(±%)	(± %)	Ι΄.
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	00
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	00
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	00
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	00
Line arity	E.2.4	0.3	N	1	1	1	0.3	0.3	00
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	00
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	00
Readout Electronics	E.2.6	0.3	N	-1	- 1	- 1	0.3	0.3	00
Response Time	E.2.7	8.0	R	1.732	1	1	0.5	0.5	00
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	00
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	00
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	00
Probe Positioner Mechanical Tolerance	E.6.2	8.0	R	1.732	1	1	0.5	0.5	00
Probe Positioning w/respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	00
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	00
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	00
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	00
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	00
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	00
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	00
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	00
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	00
Combined Standard Uncertainty (k=1) RSS					•	12.2	12.0	191	
Expanded Uncertainty			k=2				24.4	24.0	
(95% CONFIDENCE LEVEL)								1	

The above measurement uncertainties are according to IEEE Std. 1528-2013

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