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PART 0 SAR CHAR REPORT

Applicant Name:

Executive Vice President

Apple, Inc. One Apple Park Way Cupertino, CA 95014 **Date of Testing:** 01/04/2024 – 03/19/2024 **Test Report Issue Date:** 03/29/2024

Test Site/Location:

Element, Morgan Hill, CA, USA **Document Serial No.:** 1C2311270070-01.BCG

FCC ID: BCGA2926

APPLICANT: APPLE, INC.

Report Type: Part 0 SAR Characterization

DUT Type: Tablet Device Model(s): A2936, A3007

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.

Prepared by: WKR0000005825

Reviewed by: WKR0000005823





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1 DEVICE UNDER TEST

1.1 Device Overview

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	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	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 n14	Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n70	Data	1697.5 - 1707.5 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 n48	Data	3555.0 - 3694.98 MHz
NR Band n77 DoD	Data	3455.01 - 3544.98 MHz
NR Band n77 C	Data	3705.0 - 3975.0 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
		U-NII-1: 5180 - 5240 MHz
5 GHz WIFI	Voice/Data	U-NII-2A: 5260 - 5320 MHz
3 GHZ WIFI	VOICE/Data	U-NII-2C: 5500 - 5720 MHz
		U-NII-3: 5745 - 5825 MHz
		U-NII-5: 5955 - 6415 MHz
e CH2 WIEI	Voice/Data	U-NII-6: 6435 - 6515 MHz
6 GHz WIFI	Voice/Data	U-NII-7: 6535 - 6875 MHz
		U-NII-8: 6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB UNII-1	Data 5162 - 5245 MHz	
NB UNII-3	Data	5733 - 5844 MHz
WPT	N/A	13.56 MHz

This device uses the Qualcomm® Gen2 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 3G/4G/5G WWAN operations. Additionally, this device supports WLAN/BT/802.15.4/NB-UNII 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® Gen2 Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 3G/4G/5G Sub-6 NR WWAN is in compliance with FCC requirements. This Part 0 report shows SAR characterization of WWAN radios for 3G/4G/5G Sub-6 NR. Characterization is achieved by determining P_{Limit} for 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
	Plimit	Power level that corresponds to the exposure design
		target (SAR_design_target) after accounting for all device
3G/4G/5G		design related uncertainties
Sub-6 NR	P _{max}	Maximum tune up output power
Sub-o 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	1C2311270070-02.BCG
RF Exposure Part 2 Test Report	1C2311270070-03.BCG
RF Exposure Compliance Summary	1C2311270070-04.BCG

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2 SAR 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)

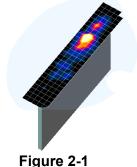
E = Total RMS electric field strength (V/m)

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

 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*

F	Maximum Area Scan Resolution (mm)	nesolation (mm)		Minimum Zoom Scan Volume (mm)		
Frequency	(Δx _{area} , Δy _{area})	(Δx _{200m} , Δy _{200m})	Uniform Grid	G	raded Grid	(x,y,z)
			Δz _{zoom} (n)	Δz _{zoom} (1)*	Δz _{zoom} (n>1)*	
≤ 2 GHz	≤15	≤8	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥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	≤ 1.5*∆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)	Device on body	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 uncertainties specified by the manufacturer (see Table 3-2).

Table 3-2 SAR_design_target Calculations

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 FCC SAR Part 1 Report.

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

Exposure Scenario: Amt 1	SAN Characterizations								
Averaging Volume: 18	Exposure Scenario:	Ant 1		Ant 2b		Ant 3		Ant 4b	
Discription	Averaging Volume:	1g		1g		1g		1g	
Power Technology/Band	Spacing:	0 mm	•	0 mm		0 mm	•	0 mm	
Technology/Band Pinkt corresponding to 0.8 W/kg Pinkt corresponding			Power*		Power*		Power*		Power*
UMTS 1790		Plimit corresponding	Pmax						
UNTS 1900	UMTS 850	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
LTE Band 12	UMTS 1750	15.90	22.00	12.60	22.00	16.40	24.50	13.00	24.60
LTE Band 12	UMTS 1900	14.50	22.00	12.80	22.00	15.00	24.50	12.30	24.60
LTE Band 137	LTE Band 71	18.20	23.20	N/A	N/A	20.00	25.00	N/A	N/A
LTE Band 13	LTE Band 12	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A
LTE Band 14	LTE Band 17	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A
LTE Band 26 18.60 23.20 N/A N/A 18.80 25.00 N/A N/A LTE Band 5 18.60 23.20 N/A N/A 18.80 25.00 N/A N/A N/A LTE Band 5 LTE Band 5 LTE Band 6 23.20 N/A N/A N/A 18.80 25.00 N/A N/A N/A LTE Band 4 LTE Band 4 LTE Band 6 LTE Band 2 LASD LTE Band 3 LTE Band 7 LTE Band 8 LTE BAND	LTE Band 13	20.50	23.20	N/A	N/A	19.10	25.00	N/A	N/A
LTE Band S	LTE Band 14	18.60	23.20	N/A	N/A	19.10	25.00	N/A	N/A
LTE Band 4 15.90 25.00 12.60 24.50 16.40 24.50 13.00 24.60 LTE Band 4 15.90 25.00 12.60 24.50 16.40 24.50 13.00 24.60 LTE Band 6 15.90 25.00 12.60 24.50 16.40 23.50 13.00 23.60 LTE Band 2 14.50 22.00 12.80 22.00 15.00 24.50 12.30 24.60 LTE Band 25 14.50 22.00 12.80 22.00 15.00 24.50 12.30 24.60 LTE Band 30 13.90 21.50 12.10 21.50 13.40 23.60 11.80 23.10 LTE Band 7 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 LTE Band 7 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 LTE Band 38 12.20 23.00 11.50 23.00 11.20 23.00 10.40 23.00 LTE Band 38 12.20 23.00 11.50 23.00 11.20 23.00 10.40 23.00 LTE Band 41 (PC3) ULCA 12.2 23.0 11.5 23.0 11.2 23.0 10.4 23.0 LTE Band 41 (PC3) ULCA 12.2 23.0 11.5 23.0 11.2 23.0 10.4 23.0 LTE Band 41 (PC3) ULCA 12.2 24.4 12.5 23.9 11.2 22.9 10.4 23.0 LTE Band 41 (PC3) ULCA 12.2 24.4 12.5 23.9 11.2 22.9 10.4 23.0 LTE Band 48 ULCA 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 NR Band n71 18.20 23.20 NA NA NA 20.00 25.00 NA NA NR Band n71 18.20 23.20 NA NA 18.80 25.00 NA NA NR Band n65 18.60 23.20 NA NA 18.80 25.00 NA NA NR Band n66 15.90 25.00 12.60 24.50 13.00 24.50 11.20 24.60 NR Band n70 15.90 25.00 12.60 24.50 13.00 24.50 13.00 24.50 NR Band n66 15.90 25.00 12.60 24.50 15.00 24.50 13.00 24.50 NR Band n66 15.90 25.00 12.60 24.50 15.00 NA NA NR Band n66 15.90 25.00 12.60 24.50 15.00 NA NA NR Band n67 14.50 22.00 12.80 22.00 15.00 24.50 13.00 24.60 NR Band n67 14.50 22.00 12.80 22.50 10.00 24.50 13.00 24.50 NR Band n67 14.50 22.00 12.80 22.50 10.00 24.50 13.00 24.50 NR Band n78 (PC2) 9.50 22.50 9.50 22.50	LTE Band 26	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
LTE Band 4	LTE Band 5	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
LTE Band 66	LTE Band 5 ULCA	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
LTE Band 2	LTE Band 4	15.90	25.00	12.60	24.50	16.40	24.50	13.00	24.60
LTE Band 25	LTE Band 66	15.90	25.00	12.60	24.50	16.40	23.50	13.00	23.60
LTE Band 30	LTE Band 2	14.50	22.00	12.80	22.00	15.00	24.50	12.30	24.60
LTE Band 7 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 LTE Band 7 ULCA 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 LTE Band 38 12.20 23.00 11.50 23.00 11.20 23.00 10.40 23.00 LTE Band 41 (PC3) 12.2 23.00 11.5 23.0 11.2 23.0 10.4 23.0 LTE Band 41 (PC3) ULCA 12.2 23.0 11.5 23.0 11.2 23.0 10.4 23.0 LTE Band 41 (PC2) ULCA 12.2 23.0 11.5 23.0 11.2 22.9 10.4 23.0 LTE Band 42 (PC2) ULCA 12.2 24.4 12.5 23.9 11.2 22.9 10.4 23.0 LTE Band 48 (PC3) ULCA 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 LTE Band 48 (PC2) ULCA 11.0 19.3 12.5 20.5 10.0 19.1	LTE Band 25	14.50	22.00	12.80	22.00	15.00	24.50	12.30	24.60
LTE Band 7 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 LTE Band 7 ULCA 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 LTE Band 38 12.20 23.00 11.50 23.00 11.20 23.00 10.40 23.00 LTE Band 41 (PC3) 12.2 23.00 11.5 23.0 11.2 23.0 10.4 23.0 LTE Band 41 (PC3) ULCA 12.2 23.0 11.5 23.0 11.2 23.0 10.4 23.0 LTE Band 41 (PC2) ULCA 12.2 23.0 11.5 23.0 11.2 22.9 10.4 23.0 LTE Band 42 (PC2) ULCA 12.2 24.4 12.5 23.9 11.2 22.9 10.4 23.0 LTE Band 48 (PC3) ULCA 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 LTE Band 48 (PC2) ULCA 11.0 19.3 12.5 20.5 10.0 19.1	LTE Band 30	13.90	21.50	12.10	21.50	13.40	23.60	11.80	23.10
LTE Band 38	LTE Band 7	12.60	21.50	12.00	21.50		24.50	11.20	24.60
LTE Band 41 (PC3) LTE Band 41 (PC3) LTE Band 41 (PC3) LTE Band 41 (PC3) LTE Band 41 (PC2) LTE Band 42 (PC2) LTE Band 43 (PC2) LTE Band 44 (PC2) LTE Band 45 (PC2) LTE Band 41 (LTE Band 7 ULCA	12.60	21.50	12.00	21.50	13.00	24.50	11.20	24.60
LTE Band 41 (PC3)	LTE Band 38	12.20	23.00	11.50	23.00	11.20	23.00	10.40	23.00
LTE Band 41 (PC3) ULCA LTE Band 41 (PC2) 12.2 24.4 12.5 23.9 11.2 22.9 10.4 23.0 LTE Band 41 (PC2) ULCA 12.2 24.4 12.5 23.9 11.2 22.9 10.4 23.0 LTE Band 41 (PC2) ULCA 12.2 24.4 12.5 23.9 11.2 22.9 10.4 23.0 LTE Band 48 ULCA 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 NR Band n71 18.20 23.20 NA NA NA NA NA NA NA NA NA N	LTE Band 38 ULCA	12.20	23.00	11.50	23.00	11.20	23.00	10.40	23.00
LTE Band 41 (PC2) 12.2 24.4 12.5 23.9 11.2 22.9 10.4 23.0 LTE Band 41 (PC2) ULCA 12.2 24.4 12.5 23.9 11.2 22.9 10.4 23.0 LTE Band 48 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 NR Band 41 NA NR Band 11 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 NR Band 71 18.20 23.20 NA NA NA NA 20.00 25.00 NA NA NA NA NA NA NA NA NA	LTE Band 41 (PC3)	12.2	23.0	11.5	23.0	11.2	23.0	10.4	23.0
LTE Band 41 (PC2) ULCA LTE Band 48 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 LTE Band 48 ULCA 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 NR Band n71 18.20 23.20 N/A N/A N/A N/A N/A 18.50 25.00 N/A N/A N/A N/A N/A N/A N/A N	LTE Band 41 (PC3) ULCA	12.2	23.0	11.5	23.0	11.2	23.0	10.4	23.0
LTE Band 48 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 LTE Band 48 ULCA 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 LTE Band 48 ULCA 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 NR Band n71 18.20 23.20 N/A N/A 20.00 25.00 N/A N/A N/A N/A N/A N/A 18.50 25.00 N/A	LTE Band 41 (PC2)	12.2	24.4	12.5	23.9	11.2	22.9	10.4	23.0
LTE Band 48 ULCA 11.0 19.3 12.5 20.5 10.0 19.1 9.2 19.6 NR Band n71 18.20 23.20 N/A NR Band n12 19.00 23.20 N/A NR Band n14 18.60 23.20 N/A NR Band n25 18.60 23.20 N/A NR Band n5 18.60 23.20 N/A N/A NR Band n5 18.60 23.20 N/A N/A NR Band n5 18.60 23.20 N/A N/A N/A N/A 18.80 25.00 N/A N/A N/A N/A NR Band n5 18.60 23.20 N/A N/A N/A N/A N/A 18.80 25.00 N/A N/A N/A N/A N/A N/A N/A N	LTE Band 41 (PC2) ULCA	12.2	24.4	12.5	23.9	11.2	22.9	10.4	23.0
NR Band n71	LTE Band 48	11.0	19.3	12.5	20.5	10.0	19.1	9.2	19.6
NR Band n12	LTE Band 48 ULCA	11.0	19.3	12.5	20.5	10.0	19.1	9.2	19.6
NR Band n14	NR Band n71	18.20	23.20	N/A	N/A	20.00	25.00	N/A	N/A
NR Band n26	NR Band n12	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A
NR Band n5 18.60 23.20 N/A N/A 18.80 25.00 N/A N/A NR Band n70 15.90 25.00 12.60 24.50 16.40 24.50 13.00 24.60 NR Band n66 15.90 25.00 12.60 24.50 16.40 23.50 13.00 23.60 NR Band n2 14.50 22.00 12.80 22.00 15.00 24.50 12.30 24.60 NR Band n25 14.50 22.00 12.80 22.00 15.00 24.50 12.30 24.60 NR Band n30 13.90 21.50 12.10 21.50 13.40 24.50 11.80 24.60 NR Band n7 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 NR Band n41 (PC3) 12.20 25.00 11.50 25.00 12.20 25.00 11.20 25.00 NR Band n77 (PC3) 9.50 22.50 9.50 22.50 9.60 24.70 8.	NR Band n14	18.60	23.20	N/A	N/A	19.10	25.00	N/A	N/A
NR Band n70	NR Band n26	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
NR Band n66 15.90 25.00 12.60 24.50 16.40 23.50 13.00 23.60 NR Band n2 14.50 22.00 12.80 22.00 15.00 24.50 12.30 24.60 NR Band n25 14.50 22.00 12.80 22.00 15.00 24.50 12.30 24.60 NR Band n30 13.90 21.50 12.10 21.50 13.40 24.50 11.80 24.60 NR Band n41 (PC3) 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 NR Band n41 (PC3) 12.20 25.00 11.50 25.00 12.20 25.00 11.20 25.00 NR Band n41 (PC2) 12.20 28.00 11.50 27.50 12.20 26.50 11.20 26.60 NR Band n77 (PC3) 9.50 22.50 9.50 22.50 9.60 24.70 8.80 24.70 NR Band n78 (PC3) 9.80 22.50 10.00 22.50 9.40	NR Band n5	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
NR Band n2 14.50 22.00 12.80 22.00 15.00 24.50 12.30 24.60 NR Band n25 14.50 22.00 12.80 22.00 15.00 24.50 12.30 24.60 NR Band n30 13.90 21.50 12.10 21.50 13.40 24.50 11.80 24.60 NR Band n7 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 NR Band n41 (PC3) 12.20 25.00 11.50 25.00 12.20 25.00 11.20 25.00 NR Band n41 (PC2) 12.20 28.00 11.50 27.50 12.20 26.50 11.20 26.60 NR Band n77 (PC3) 9.50 22.50 9.50 22.50 9.60 24.70 8.80 24.70 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 24.7	NR Band n70	15.90	25.00	12.60	24.50	16.40	24.50	13.00	24.60
NR Band n25 14.50 22.00 12.80 22.00 15.00 24.50 12.30 24.60 NR Band n30 13.90 21.50 12.10 21.50 13.40 24.50 11.80 24.60 NR Band n7 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 NR Band n41 (PC3) 12.20 25.00 11.50 25.00 12.20 25.00 11.20 25.00 NR Band n41 (PC2) 12.20 28.00 11.50 27.50 12.20 26.50 11.20 26.60 NR Band n77 (PC3) 9.50 22.50 9.50 22.50 9.60 24.70 8.80 24.70 NR Band n77 (PC2) 9.50 22.50 9.50 22.50 9.60 26.50 8.80 26.00 NR Band n78 (PC3) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC3) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 26.50 8.80 26.00 26.00 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 26.50 8.80 26.00	NR Band n66	15.90	25.00	12.60	24.50	16.40	23.50	13.00	23.60
NR Band n30 13.90 21.50 12.10 21.50 13.40 24.50 11.80 24.60 NR Band n7 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 NR Band n41 (PC3) 12.20 25.00 11.50 25.00 12.20 25.00 11.20 25.00 NR Band n41 (PC2) 12.20 28.00 11.50 27.50 12.20 26.50 11.20 26.60 NR Band n77 (PC3) 9.50 22.50 9.50 22.50 9.60 24.70 8.80 24.70 NR Band n77 (PC2) 9.50 22.50 9.50 22.50 9.60 26.50 8.80 26.00 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70	NR Band n2	14.50	22.00	12.80	22.00	15.00	24.50	12.30	24.60
NR Band n7 12.60 21.50 12.00 21.50 13.00 24.50 11.20 24.60 NR Band n41 (PC3) 12.20 25.00 11.50 25.00 12.20 25.00 11.20 25.00 NR Band n41 (PC2) 12.20 28.00 11.50 27.50 12.20 26.50 11.20 26.60 NR Band n77 (PC3) 9.50 22.50 9.50 22.50 9.60 24.70 8.80 24.70 NR Band n78 (PC3) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC3) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70	NR Band n25	14.50	22.00	12.80	22.00	15.00	24.50	12.30	24.60
NR Band n41 (PC3) 12.20 25.00 11.50 25.00 12.20 25.00 11.20 25.00 NR Band n41 (PC2) 12.20 28.00 11.50 27.50 12.20 26.50 11.20 26.60 NR Band n77 (PC3) 9.50 22.50 9.50 22.50 9.60 24.70 8.80 24.70 NR Band n77 (PC2) 9.50 22.50 9.50 22.50 9.60 26.50 8.80 26.00 NR Band n78 (PC3) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 26.50 8.80 26.00	NR Band n30	13.90	21.50	12.10	21.50	13.40	24.50	11.80	24.60
NR Band n41 (PC2) 12.20 28.00 11.50 27.50 12.20 26.50 11.20 26.60 NR Band n77 (PC3) 9.50 22.50 9.50 22.50 9.60 24.70 8.80 24.70 NR Band n77 (PC2) 9.50 22.50 9.50 22.50 9.60 26.50 8.80 26.00 NR Band n78 (PC3) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 26.50 8.80 26.00	NR Band n7	12.60	21.50	12.00	21.50	13.00	24.50	11.20	24.60
NR Band n77 (PC3) 9.50 22.50 9.50 22.50 9.60 24.70 8.80 24.70 NR Band n77 (PC2) 9.50 22.50 9.50 22.50 9.60 26.50 8.80 26.00 NR Band n78 (PC3) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 26.50 8.80 26.00	NR Band n41 (PC3)	12.20	25.00	11.50	25.00	12.20	25.00	11.20	25.00
NR Band n77 (PC2) 9.50 22.50 9.50 22.50 9.60 26.50 8.80 26.00 NR Band n78 (PC3) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 26.50 8.80 26.00	NR Band n41 (PC2)	12.20	28.00	11.50	27.50	12.20	26.50	11.20	26.60
NR Band n78 (PC3) 9.80 22.50 10.00 22.50 9.40 24.70 8.80 24.70 NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 26.50 8.80 26.00	NR Band n77 (PC3)	9.50	22.50	9.50	22.50	9.60	24.70	8.80	24.70
NR Band n78 (PC2) 9.80 22.50 10.00 22.50 9.40 26.50 8.80 26.00	NR Band n77 (PC2)	9.50	22.50	9.50	22.50	9.60	26.50	8.80	26.00
	NR Band n78 (PC3)	9.80	22.50	10.00	22.50	9.40	24.70	8.80	24.70
NR Band n48 10.40 22.50 12.50 22.50 10.00 25.00 8.60 25.00	NR Band n78 (PC2)	9.80	22.50	10.00	22.50	9.40	26.50	8.80	26.00
	NR Band n48	10.40	22.50	12.50	22.50	10.00	25.00	8.60	25.00

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 conducted power tolerance and +1.0/-1.0 dB conducted power tolerance for UHB.
- 2. 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

	Description	Cal Date	Cal Interval	Cal Due	Serial Number
E44048	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
E4438C	ESG Vector Signal Generator	11/14/2023	Annual	11/14/2024	MY45093852
E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
N5182A N5182A	MXG Vector Signal Generator	10/12/2023	Annual	7/4/2024	MY47400015 MY48180366
N5182A 8753FS	MXG Vector Signal Generator S-Parameter Vector Network Analyzer	7/4/2023 3/6/2023	Annual Annual	3/6/2024	MY48180366 MY40000670
8753ES	S-Parameter Vector Network Analyzer	1/12/2023	Annual	1/12/2024	MY40001472
ESS15C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
ESS15C	Wireless Communications Test Set	1/13/2023	Annual	1/13/2024	MY50262130
N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
15S1G6	Amplifier	CBT	N/A	CBT	433973
15S1G6	Amplifier	CBT	N/A	CBT	433974
150A100C	Amplifier	CBT	N/A	CBT	350132
MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
ML2496A	Power Meter	4/4/2023	Annual	4/4/2024	1840005
MA2411B MA2411B	Pulse Power Sensor	8/22/2023	Annual	8/22/2024	1726262 1027293
M78821C	Pulse Power Sensor Radio Communication Analyzer MT8821C	11/8/2023 12/15/2023	Annual Annual	11/8/2024 12/15/2024	6200901190
MT8821C	Radio Communication Analyzer MT8821C	7/7/2023	Annual	7/7/2024	6262044715
MT8821C	Radio Communication Analyzer MT8821C	7/5/2023	Annual	7/5/2024	6262150000
MT8821C	Radio Communication Analyzer MT8821C	3/31/2023	Annual	3/31/2024	6201381794
MT8000A	Radio Communication Test Station	3/21/2023	Annual	3/21/2024	6261987983
MT8000A	Radio Communication Test Station	4/6/2023	Annual	4/6/2024	6272337439
MT8000A	Radio Communication Test Station	3/1/2023	Annual	3/1/2024	6272337419
MA24106A	USB Power Sensor	6/15/2023	Annual	6/15/2024	1827530
MA24106A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230703247
4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230702935
4052 4040	Long Stem Thermometer	2/17/2023	Biennial	2/17/2025	230111049 160574418
500-196-30	Therm./ Clock/ Humidity Monitor CD-6"ASX 6Inch Digital Caliper	1/17/2023 2/16/2022	Annual Triennial	1/17/2024 2/16/2025	A20238413
N6705B	DC Power Analyzer	5/5/2021	Triennial	5/5/2024	MY53004059
N9020A	MXA Signal Analyzer	4/6/2023	Annual	4/6/2024	MY48010233
N9020A	MXA Signal Analyzer	4/26/2022	Biennial	4/26/2024	MY56470202
BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
VLF-6000+	Low Pass Filter DC to 6000 MHz	7/5/2023	Annual	7/5/2024	31634
BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
NLP-1200+	Low Pass Filter DC to 1000 MHz Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
NLP-2950+		CBT	N/A	CBT	N/A
BW-N20W5 ZUDC10-83-S+	Power Attenuator Directional Counter	CBT	N/A N/A	CBT	1226 2050
4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
NC-100	Torque Wrench	CBT	N/A	CBT	22217
NC-100	Torque Wrench	CBT	N/A	CBT	1262
CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
CMW500	Wideband Radio Communication Tester	1/12/2023	Annual	1/12/2024	131453
CMW500	Wideband Radio Communication Tester	7/4/2023	Annual	7/4/2024	166818
CMW500	Wideband Radio Communication Tester	7/17/2023	Annual	7/17/2024	171008
DAK-3.5	Dielectric Assessment Kit	11/13/2023	Annual	11/13/2024	1277
DAKS-3.5	Portable Dielectric Assessment Kit	8/14/2023	Annual	8/14/2024	1041
MAIA MAIA	Modulation and Audio Interference Analyzer Modulation and Audio Interference Analyzer	N/A N/A	N/A N/A	N/A N/A	1237 1331
MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/13/2023	Annual	3/13/2024	1102
CLA-13	Confined Loop Antenna	11/9/2023	Annual	11/9/2024	1004
D1750V2	1750 MHz SAR Dipole	11/17/2022	Biennial	11/17/2024	1040
				5/16/2024	5d030
D1900V2	1900 MHz SAR Dipole	5/16/2022	Biennial		
D1900V2 D2300V2	1900 MHz SAR Dipole 2300 MHz SAR Dipole	5/16/2022 3/15/2021	Biennial Triennial	3/15/2024	1038
D2300V2 D2300V2	2300 MHz SAR Dipole 2300 MHz SAR Dipole	3/15/2021 11/14/2023		3/15/2024 11/14/2024	1064
D2300V2 D2300V2 D2450V2	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2450 MHz SAR Dipole	3/15/2021 11/14/2023 11/9/2021	Triennial Annual Triennial	3/15/2024 11/14/2024 11/9/2024	1064 921
D2300V2 D2300V2 D2450V2 D2450V2	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole	3/15/2021 11/14/2023 11/9/2021 11/15/2022	Triennial Annual Triennial Biennial	3/15/2024 11/14/2024 11/9/2024 11/15/2024	1064 921 855
D2300V2 D2300V2 D2450V2 D2450V2 D2450V2	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole	3/15/2021 11/14/2023 11/9/2021 11/15/2022 5/11/2022	Triennial Annual Triennial Biennial Biennial	3/15/2024 11/14/2024 11/9/2024 11/15/2024 5/11/2024	1064 921 855 750
D2300V2 D2300V2 D2450V2 D2450V2 D2450V2 D2600V2	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole	3/15/2021 11/14/2023 11/9/2021 11/15/2022 5/11/2022 5/11/2022	Triennial Annual Triennial Biennial Biennial Biennial	3/15/2024 11/14/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024	1064 921 855 750 1042
D2300V2 D2300V2 D2450V2 D2450V2 D2450V2 D2450V2 D2600V2 D2600V2	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 2600 MHz SAR Dipole	3/15/2021 11/14/2023 11/9/2021 11/15/2022 5/11/2022 5/11/2022 11/15/2022	Triennial Annual Triennial Biennial Biennial Biennial Biennial	3/15/2024 11/14/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024	1064 921 855 750 1042 1068
D2300V2 D2300V2 D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2	2300 NH12 SAR Dipole 2300 NH12 SAR Dipole 2450 MH12 SAR Dipole 2450 MH12 SAR Dipole 2450 MH12 SAR Dipole 2450 MH12 SAR Dipole 2600 MH12 SAR Dipole 2600 MH12 SAR Dipole 3500 MH12 SAR Dipole	3/15/2021 11/14/2023 11/9/2021 11/15/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021	Triennial Annual Triennial Biennial Biennial Biennial Biennial Triennial	3/15/2024 11/14/2024 11/9/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024	1064 921 855 750 1042 1068 1126
D2300V2 D2300V2 D2450V2 D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 D3700V2	2 200 MHz SAR Dipole 2 200 MHz SAR Dipole 2 200 MHz SAR Dipole 2 450 MHz SAR Dipole 2 450 MHz SAR Dipole 2 450 MHz SAR Dipole 2 600 MHz SAR Dipole 2 600 MHz SAR Dipole 3 500 MHz SAR Dipole 3 500 MHz SAR Dipole 3 500 MHz SAR Dipole	3/15/2021 11/14/2023 11/9/2021 11/15/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021	Triennial Annual Triennial Biennial Biennial Biennial Biennial Triennial Triennial	3/15/2024 11/14/2024 11/9/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024	1064 921 855 750 1042 1068 1126
D2300V2 D2300V2 D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2	2300 NH12 SAR Dipole 2300 NH12 SAR Dipole 2450 MH12 SAR Dipole 2450 MH12 SAR Dipole 2450 MH12 SAR Dipole 2450 MH12 SAR Dipole 2600 MH12 SAR Dipole 2600 MH12 SAR Dipole 3500 MH12 SAR Dipole	3/15/2021 11/14/2023 11/9/2021 11/15/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021	Triennial Annual Triennial Biennial Biennial Biennial Biennial Triennial Triennial Triennial	3/15/2024 11/14/2024 11/9/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024	1064 921 855 750 1042 1068 1126
D2300V2 D2300V2 D2450V2 D2450V2 D2450V2 D2450V2 D2600V2 D3500V2 D3700V2 D3900V2 D3900V2	2300 MHz SAR Dpole 2300 MHz SAR Dpole 2400 MHz SAR Dpole 2450 MHz SAR Dpole 2600 MHz SAR Dpole 2600 MHz SAR Dpole 2600 MHz SAR Dpole 3500 MHz SAR Dpole 3700 MHz SAR Dpole 3700 MHz SAR Dpole 3700 MHz SAR Dpole 5705 MHz SAR Dpole 5705 MHz SAR Dpole 5705 MHz SAR Dpole 5 GHz SAR Dpole 5 GHz SAR Dpole 5 GHz SAR Dpole	3/15/2021 11/14/2023 11/9/2021 11/15/2022 5/11/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021 6/9/2021	Triennial Annual Triennial Biennial Biennial Biennial Biennial Triennial Triennial	3/15/2024 11/14/2024 11/9/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024 6/9/2024 6/10/2024	1064 921 855 750 1042 1068 1126 1097
D2300V2 D2350V2 D2350V2 D2350V2 D2350V2 D2350V2 D2550V2 D2500V2 D3500V2 D3500V2 D3700V2 D3900V2 D350V2	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 2600 MHz SAR Dipole 2600 MHz SAR Dipole 3500 MHz SAR Dipole 3500 MHz SAR Dipole 3500 MHz SAR Dipole 3700 MHz SAR Dipole 3700 MHz SAR Dipole 5705 MHz SAR Dipole 5615 SAR SAR Dipole 5615 SAR SAR Dipole 5615 SAR SAR Dipole	3/15/2021 11/14/2023 11/9/2021 11/15/2022 5/11/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021 6/9/2021 6/9/2021 13/12/2022 11/17/2022	Triennial Annual Triennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Triennial Annual	3/15/2024 11/14/2024 11/19/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 11/15/2024 6/9/2024 6/9/2024 6/9/2024 11/17/2024 11/17/2024 10/11/2024	1064 921 855 750 1042 1068 1126 1097 1073 1073 1066 1019
D2300V2 D2300V2 D2450V2 D2450V2 D2450V2 D2450V2 D2600V2 D2600V2 D3500V2 D3500V2 D350V2 D350V2 D5GHtV2 D5GHtV2 D5GHtV2 D5GHtV2 D5GHtV2 D5GHtV2	2 200 MHz SAR Dpole 2 200 MHz SAR Dpole 2 200 MHz SAR Dpole 2 2450 MHz SAR Dpole 2 450 MHz SAR Dpole 2 450 MHz SAR Dpole 2 450 MHz SAR Dpole 2 650 MHz SAR Dpole 3 500 MHz SAR Dpole 3 500 MHz SAR Dpole 3 700 MHz SAR Dpole 3 700 MHz SAR Dpole 5 GHz SAR Dpole 5 GHz SAR Dpole 5 GHz SAR Dpole 5 GHz SAR Dpole 6 GHz SAR Dpole 6 GHz SAR Dpole 7 50 MHz SAR Dpole	3/15/2021 11/14/2023 11/19/2021 11/15/2022 5/11/2022 5/11/2022 5/11/2022 6/9/2021 6/9/2021 6/9/2021 6/10/2021 3/22/2022 11/17/2023 9/13/2023	Triennial Annual Triennial Biennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Annual Annual	3/15/2024 11/14/2024 11/19/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 6/9/2024 6/9/2024 6/9/2024 3/22/2024 11/11/2024 10/11/2024 10/11/2024	1064 921 855 750 1042 1068 1126 1097 1073 1123 1066 1019
D2300V2 D2300V2 D2350V2 D2350V2 D2350V2 D2350V2 D2500V2 D3500V2 D3500V2 D3700V2 D3900V2 D3900V2 D5GHtV2 D5GHtV2 D5GHtV2 D5GHtV2 D750V3	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 2600 MHz SAR Dipole 3600 MHz SAR Dipole 3500 MHz SAR Dipole 3500 MHz SAR Dipole 3700 MHz SAR Dipole 3700 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 750 MHz SAR Dipole 750 MHz SAR Dipole 750 MHz SAR Dipole	3/15/2021 11/14/2023 11/19/2021 11/15/2022 5/11/2022 5/11/2022 6/9/2021 6/9/2021 6/9/2021 3/22/2022 11/17/2022 10/11/2023 10/11/2023 5/16/2022	Triennial Annual Triennial Biennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Annual Annual	3/15/2024 11/14/2024 11/19/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 6/9/2024 6/9/2024 6/9/2024 11/15/2024 11/15/2024 11/17/2024 10/11/2024 10/11/2024 5/16/2024	1064 921 921 1068 1068 1126 1097 1073 1123 1066 1019 1097 1057
D2300V2 D2300V2 D2350V2 D2350V2 D2350V2 D2350V2 D2350V2 D2560V2 D2560V2 D2560V2 D3700V2 D3900V2 D390V2 D5GHtV2 D65GHtV2 D5GHtV2 D750V3 D750V3	2300 MHz SAR Dpole 2300 MHz SAR Dpole 2300 MHz SAR Dpole 2450 MHz SAR Dpole 2500 MHz SAR Dpole 2600 MHz SAR Dpole 2600 MHz SAR Dpole 3500 MHz SAR Dpole 3700 MHz SAR Dpole 3700 MHz SAR Dpole 5700 MHz SAR Dpole 5 GHz SAR Dpole 6 GHz SAR Dpole 750 MHz SAR Dpole 750 MHz SAR Dpole 750 MHz SAR Dpole	3/15/2021 11/14/2023 11/19/2021 11/15/2022 5/11/2022 5/11/2022 11/15/2022 11/15/2022 6/9/2021 6/9/2021 6/10/2021 3/22/2022 11/17/2022 10/11/2023 9/13/203 5/16/2022 5/11/2021	Triennial Annual Triennial Biennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Triennial Annual Annual Triennial	3/15/2024 11/14/2024 11/14/2024 11/15/2024 11/15/2024 5/11/2024 11/15/2024 6/9/2024 6/9/2024 6/9/2024 11/17/2024 11/17/2024 10/11/2024 9/13/2024 5/16/2024 5/16/2024	1064 921 855 750 1042 1068 1126 1097 1073 1123 1066 1019 1097 1057 1034
D2300V2 D2300V2 D2350V2 D2350V2 D2350V2 D2350V2 D2550V2 D2550V2 D2550V2 D3500V2 D3500V2 D350V2 D350V2 D350V2 D56HvV2 D656HvV2 D750V3 D750V3 D750V3 D750V3 D835V2	2 200 MHz SAR Dipole 2 260 MHz SAR Dipole 2 360 MHz SAR Dipole 3 300 MHz SAR Dipole 3 200 MHz SAR Dipole 3 200 MHz SAR Dipole 3 500 MHz SAR Dipole 3 500 MHz SAR Dipole 5 500 MHz SAR Dipole	3/15/2021 11/14/2023 11/19/2021 11/15/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021 6/9/2021 6/9/2021 11/17/2022 11/17/2022 10/11/2023 9/13/2022 5/16/2022 5/16/2022 5/16/2022	Triennial Annual Triennial Biennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Annual Annual Annual Annual Triennial	3/15/2024 11/14/2024 11/14/2024 11/19/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024 6/9/2024 6/9/2024 11/17/2024 11/17/2024 10/11/2024 10/11/2024 5/16/2024 5/16/2024	1064 921 855 750 1042 1068 1126 1097 1173 1123 1066 1019 1097 1057 1057
D2300/2 D2300/2 D2350/2 D2350/2 D2350/2 D2350/2 D2350/2 D2500/2 D2500/2 D3500/2 D3500/	2300 MHz SAR Dpole 2300 MHz SAR Dpole 2400 MHz SAR Dpole 2450 MHz SAR Dpole 2500 MHz SAR Dpole 2500 MHz SAR Dpole 3500 MHz SAR Dpole 3700 MHz SAR Dpole 3700 MHz SAR Dpole 3700 MHz SAR Dpole 5 GHz SAR Dpole 5 GHz SAR Dpole 5 GHz SAR Dpole 5 GHz SAR Dpole 6 GHz SAR Dpole 6 GHz SAR Dpole 750 MHz SAR Dpole 750 MHz SAR Dpole 835 MHz SAR Dpole	3/15/2021 11/14/2023 11/19/2021 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/17/2023 11/17/2023 11/17/2023 11/17/2023 11/17/2023 11/17/2023 11/17/2023 11/18/2022 11/18/2022 11/18/2022 11/18/2022	Triennial Annual Triennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Triennial Triennial Triennial Triennial Biennial Biennial Biennial Biennial Annual Annual Annual Triennial Biennial	3/15/2024 11/14/2024 11/19/2024 11/19/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024 6/9/2024 6/9/2024 11/17/2024 3/22/2024 11/17/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024	1064 921 855 750 1042 1068 1126 1097 1073 1123 1066 1019 1097 1057 1057 1034 4040 4d108
D2300V2 D2300V2 D2350V2 D2350V2 D2350V2 D2350V2 D2550V2 D2550V2 D2550V2 D3500V2 D3500V2 D350V2 D350V2 D350V2 D56HvV2 D656HvV2 D750V3 D750V3 D750V3 D750V3 D835V2	2 200 MHz SAR Dipole 2 260 MHz SAR Dipole 2 360 MHz SAR Dipole 3 300 MHz SAR Dipole 3 200 MHz SAR Dipole 3 200 MHz SAR Dipole 3 500 MHz SAR Dipole 3 500 MHz SAR Dipole 5 500 MHz SAR Dipole	3/15/2021 11/14/2023 11/19/2021 11/15/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021 6/9/2021 6/9/2021 11/17/2022 11/17/2022 10/11/2023 9/13/2022 5/16/2022 5/16/2022 5/16/2022	Triennial Annual Triennial Biennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Annual Annual Annual Annual Triennial	3/15/2024 11/14/2024 11/14/2024 11/19/2024 11/15/2024 5/11/2024 5/11/2024 5/12/2024 6/9/2024 6/9/2024 6/9/2024 11/15/2024 11/17/2024 10/11/2024 10/11/2024 5/16/2024 5/16/2024 11/18/2024 11/18/2024	1064 921 855 750 1042 1068 1126 1097 1173 1123 1066 1019 1097 1057 1057
D2309/2 D2309/2 D2350/2 D2350/2 D2350/2 D2350/2 D3500/2 D3500/	2 200 A Mets SAR Dipole 2 450 A Mets SAR Dipole 2 650 A Mets SAR Dipole 2 650 A Mets SAR Dipole 2 650 A Mets SAR Dipole 3 650 A Mets SAR Dipole 3 500 A Mets SAR Dipole 3 500 A Mets SAR Dipole 3 500 A Mets SAR Dipole 5 604 SAR Dipole 5 644 SAR Dipole 5 644 SAR Dipole 5 645 SAR Dipole 5 646 SAR Dipole	3/15/2021 11/14/2023 11/19/2021 11/15/2022 15/11/2022 5/11/2022 5/11/2022 6/9/2021 6/9/2021 6/9/2021 6/9/2021 11/15/2022 11/17/2022 10/11/2023 5/16/2022 5/11/2021 5/16/2022 11/18/2022 3/7/2023	Triennial Annual Annual Biennial Biennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Biennial Annual Annual Annual Annual Annual Annual Triennial Biennial Biennial	3/15/2024 11/14/2024 11/14/2024 11/19/2024 11/15/2024 5/11/2024 5/11/2024 6/9/2024 6/9/2024 6/9/2024 6/9/2024 11/15/2024 11/17/2024 10/11/2024 5/16/2024 11/18/2024 5/16/2024 11/18/2024 5/16/2024 11/18/2024 5/16/2024 11/18/2024 5/16/2024	1064 921 885 750 1042 1068 1126 1097 1073 1123 1066 1019 1097 1057 1057 1034 44040 44108
2230V2 2230V2 2230V2 2250V2 24550V2 2550V2 2550V2 2550V2 2550V2 2550V2 2550V2 2550V2 2550V2 2550V2 2570V2 2570V2 2570V2 2570V2 2570V2 2570V3 2575V3 2575V3 2585V2 2585V2 2550V61400 2550V614000 2550V614000 2550V614000 2550V614000 2550V614000 2550V614000 2550V614000 2550V614000 2550V6140000 2550V61400000000000000000000000000000000000	2300 MHz SAR Dpole 2300 MHz SAR Dpole 2400 MHz SAR Dpole 2400 MHz SAR Dpole 2450 MHz SAR Dpole 2450 MHz SAR Dpole 2450 MHz SAR Dpole 2450 MHz SAR Dpole 2500 MHz SAR Dpole 2500 MHz SAR Dpole 2500 MHz SAR Dpole 2500 MHz SAR Dpole 3500 MHz SAR Dpole 3500 MHz SAR Dpole 3700 MHz SAR Dpole 3700 MHz SAR Dpole 56Hz SAR Dpole 56Hz SAR Dpole 56Hz SAR Dpole 56Hz SAR Dpole 65 MHz SAR Dpole 750 MHz SAR Dpole 835 MHz SAR Dpole 835 MHz SAR Dpole 835 MHz SAR Dpole 835 MHz SAR Dpole	3/15/2021 11/14/2023 11/19/2021 11/15/2022 11/15/2022 5/11/2022 5/11/2022 5/11/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/17/2022 11/17/2022 11/17/2022 11/17/2022 11/17/2022 11/18/2022 5/11/2021 11/18/2022 3/7/2023	Triennial Annual Triennial Biennial Biennial Biennial Triennial Biennial Biennial Biennial Biennial Biennial Annual Annual Triennial Triennial Annual Annual Triennial Biennial Annual Triennial	3/15/2024 11/14/2024 11/19/2024 11/15/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 10/15/2024 6/9/2024 6/9/2024 10/11/2024 10/11/2024 10/11/2024 10/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024	1064 921 855 750 1042 1068 1126 1097 1073 1123 1066 1019 1097 1057 1034 40404 44108 44108 1663
D2300V2 D250V2 D250V2 D255V2 D255V2 D255V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D370V2 D370V2 D370V2 D370V2 D56HV2 D56HV2 D55HV2 D	2 200 MHz SAR Dipole 2 260 MHz SAR Dipole 3 200 MHz SAR Dipole 3 200 MHz SAR Dipole 3 200 MHz SAR Dipole 3 700 MHz SAR Dipole 3 700 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 6 GHz SAR Dipole 1 250 MHz SAR Dipole 1 25	3/5/2021 11/14/2023 11/14/2023 11/15/2023 11/15/2022 5/11/2022 5/11/2022 5/11/2022 11/15/2021 6/10/2021 6/10/2021 3/22/2022 10/11/2023 5/15/2023 5/15/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023 5/11/2023	Triennial Arnual Vriennial Sieminial Sieminial Sieminial Sieminial Sieminial Sieminial Sieminial Triennial Triennial Triennial Triennial Arnual	3/15/2024 3/15/2024 11/14/2024 11/19/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 6/10/2024 6/10/2024 6/10/2024 6/10/2024 3/22/2024 11/17/2024 9/13/2024 5/16/2024 3/17/2024 3/17/2024 3/17/2024 5/11/2024 5/11/2024 5/11/2024	1064 921 855 750 1042 1068 1106 1097 1073 1123 1066 11097 1097 1097 1097 1097 1097 1097 109
P.2300V2 P.2300V2 P.2500V2 P.2	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2400 MHz SAR Dipole 2600 MHz SAR Dipole 3600 MHz SAR Dipole 3600 MHz SAR Dipole 3700 MHz SAR Dipole 3700 MHz SAR Dipole 3700 MHz SAR Dipole 3700 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 6 GHz SAR Dipole 6 GHz SAR Dipole 1750 MHz SAR Dipole	#15/0021 11/14/0021 11/14/0021 11/14/0021 11/14/0021 11/14/0021 51/17/0021 11/15/0021 6/9/2021 6/9/2021 6/9/2021 11/17/0021 11/17/0021 11/17/0021 11/17/0021 3/14/0021 8/7/17/17/0021 8/7/17/0021 8/7/17/0021 8/7/17/17/0021 8/7/17/17/0021 8/7/17/17/17/17/17/17/17/17/17/17/17/17/1	Triennial Triennial Biernial Biernial Biernial Biernial Biernial Biernial Biernial Biernial Triennial Triennial Triennial Biernial Triennial Biernial Arenial	3/15/2024 3/15/2024 11/14/2024 11/14/2024 11/15/2024 11/15/2024 11/15/2024 5/11/2024 5/11/2024 6/15/2024 6/15/2024 6/15/2024 6/15/2024 11/17/2024	1064 921 855 750 1042 1068 1126 1097 1123 1166 1019 1097 1034 4404 4408 1002 1683 1683 1684 701 467 701 501
D2300V2 D250V2 D255V2 D255V2 D255V2 D255V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D370V2 D370V2 D370V2 D370V2 D370V2 D56HV2 D56HV2 D55V4 D55	2 200 MHz SAR Dipole 2 260 MHz SAR Dipole 3 200 MHz SAR Dipole 3 260 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 6 GHz SAR Dipole 6 GHz SAR Dipole 1 250 MHz SAR Dipole 1 250 MH	#IS/021 #IS/021 11/14/023 11/14/023 11/15/023 11/15/023 5/11/023 5/11/023 5/11/023 11/15/023 6/9/021 11/15/023 11/17/023 9/11/023 9/11/023 5/11/023	Tiennial Arnual Biennial Biennial Biennial Biennial Biennial Biennial Biennial Biennial Biennial Arnual Arnual Arnual Arnual Arnual Arnual Arnual Arnual Arnual Biennial	3/15/2024 3/15/2024 11/3/2024 11/3/2024 11/3/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 11/15/2024 6/15/2024 11/15/2024 11/15/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024	1064 921 921 925 955 950 1042 1068 1126 1097 1123 11057 11057 1004 40340 40340 4010 1002 1068 701 1064 4010 1069 1097 1073 1104 1086 1097 1073 1087 1087 1087 1088 1088 1088 1088 1088
2230V2 2230V2 2230V2 2230V2 2455V2 2455V2 2455V2 2455V2 2455V2 2455V2 2550V2 25	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2300 MHz SAR Dipole 2400 MHz SAR Dipole 2600 MHz SAR Dipole 3600 MHz SAR Dipole 3600 MHz SAR Dipole 3700 MHz SAR Dipole 3700 MHz SAR Dipole 3700 MHz SAR Dipole 3700 MHz SAR Dipole 5 GHz SAR Dipole 6 GHz SAR Dipole 1750 MHz SAR Dipole	11/1/2021 11/1/2	Triennial Triennial Triennial Biennial Arrusal	3/15/2024 3/15/2024 11/9/2024 11/9/2024 11/15/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 6/9/2024 6/9/2024 6/9/2024 11/17/2024 11/17/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024	1004 1004 1012 1021 1002 1002 1003 1007
D2300V2 D250V2 D250V2 D255V2 D255V2 D255V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D370V2 D370V2 D570V2 D	2 200 A MHE S AR Dipole 2 260 A MHE S AR Dipole 3 260 A MHE S AR Dipole 5 GHE S AR Dipole 5 GHE S AR Dipole 5 GHE S AR Dipole 6 GHE S AR Dipole 6 GHE S AR Dipole 1 250 A MHE	#IS/021 #IS/021 11/4/023 11/4/023 11/4/023 11/4/023 5/11/020 5/11/020 5/11/020 5/11/020 6/9/021 11/4/023 11/4/023 11/4/023 5/11/023	Tirennial Arnual Biennial Biennial Biennial Biennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Arnual Arnual Arnual Arnual Arnual Arnual Arnual	3/15/2024 3/15/2024 11/4/2024 11/4/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 6/9/2024 11/15/2024 6/9/2024 11/15/2024 11/15/2024 5/11/2024	1064 921 921 921 925 750 1042 1068 1073 1123 1066 1019 1057 1057 1097
P.2300V2 P.2300V2 P.2500V2 P.2	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2300 MHz SAR Dipole 2400 MHz SAR Dipole 2600 MHz SAR Dipole 3500 MHz SAR Dipole 3500 MHz SAR Dipole 3500 MHz SAR Dipole 3600 MHz SAR Dipole 3700 MHz SAR Dipole 3700 MHz SAR Dipole 5 GHz SAR Dipole 1004 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1855 MHz SAR Dipole 1855 MHz SAR Dipole 1855 MHz SAR Dipole 1856 MHz SAR Dipole 1858 MHz SAR Dipole	### 15/16/2021 ### 15/16/2021	Triennial Triennial Biennial Armail	3/15/2024 3/15/2024 11/3/2024 11/3/2024 11/3/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 6/9/2024 6/9/2024 6/9/2024 10/12/2024 3/	1004 1012 1012 1012 1012 1012 1013 1013 1013 1013 1013 1013 1014 1019
D2300V2 D250V2 D250V2 D255V2 D255V2 D255V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D370V2 D370V2 D570V2 D	2 200 Mete SAR Dipole 2 200 Mete SAR Dipole 2 260 Mete SAR Dipole 3 200 Mete SAR Dipole 5 Get SAR Dipole 5 Get SAR Dipole 5 Get SAR Dipole 5 Get SAR Dipole 6 Get SAR Dipole 6 Get SAR Dipole 7 50 Mete SAR Dipole 9 5 Mete SAR Dipole 1 5 Mete SAR Dipole 9 5 Mete SAR Dipole 1 5 Mete SAR Dipole 9 5 Mete SAR Dipole 1 5 Mete SAR Dipole 9 5 Mete SAR	#15/2021 11/14/2021 11/14/2021 11/15/2021 11/15/2021 5/11/2022 5/11/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/17/2022	Triennial Triennial Triennial Triennial Bleenial Bleenial Bleenial Bleenial Bleenial Bleenial Bleenial Bleenial Bleenial Areasi	3/15/2024 11/4/2024 11/4/2024 11/4/2024 11/15/2024 11/15/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024 11/15/2024 6/9/2024 6/9/2024 11/15/2024 11/15/2024 6/9/2024 11/15/2024	1004 1004 921 1052 1053 1058 1126 1057 1073 1123 1066 11097 1073 1123 1069 1097 1073 1097
D2300V2 D250V2 D250V2 D255V2 D255V2 D255V2 D255V2 D255V2 D255V2 D250V2 D250V2 D250V2 D250V2 D370V2 D370V2 D370V2 D370V2 D370V2 D370V2 D56HV2 D55HV2 D	2300 MHz SAR Dipole 2300 MHz SAR Dipole 2300 MHz SAR Dipole 2400 MHz SAR Dipole 2600 MHz SAR Dipole 2600 MHz SAR Dipole 3600 MHz SAR Dipole 3700 MHz SAR Dipole 5 GHz SAR Dipole 1750 MHz SAR Dipole 1750	11/1/2021 11/1/2	Triennial Triennial Triennial Biennial Arnual	3/15/2024 3/15/2024 11/3/2024 11/3/2024 11/3/2024 11/3/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 6/9/2024 6/9/2024 6/9/2024 10/12/2024 10/12/2024 10/12/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 5/16/2024 3/17/2024 5/16/2024 3/17/2024 5/16/2024 3/17/2024	1004 921 855 750 1042 1068 1126 1127 1073 1123 1069 1077 1073 1069 1077 1073 1073 1073 1073 1073 1073 1073
D2300V2 D250V2 D250V2 D255V2 D255V2 D255V2 D255V2 D250V2 D250V2 D250V2 D250V2 D350V2 D370V2 D370V2 D370V2 D570V2 D570V2 D570V3 D	2 200 NMHE SAR Dispole 2 450 NMHE SAR Dispole 2 650 NMHE SAR Dispole 3 650 NMHE SAR Dispole 3 650 NMHE SAR Dispole 3 700 NMHE SAR Dispole 3 700 NMHE SAR Dispole 5 GHE SAR Dispole 6 GHE SAR Dispole 1 50 NMHE SAR Dispole 1 50 NMHE SAR DISpole 1 550 NM	#15/2021 11/14/2021 11/14/2021 11/15/2021 11/15/2021 5/11/2022 5/11/2022 16/15/2021	Triennial Triennial Triennial Triennial Blennial Blennial Blennial Blennial Triennial Triennial Triennial Triennial Triennial Briennial Briennial Briennial Briennial Artenial	3/15/2024 11/3/2024 11/3/2024 11/3/2024 11/3/2024 11/3/2024 11/15/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024 11/15/2024 6/9/2024 11/15/2024	1064 1064 1071 1072 1073 1073 1073 1073 1073 1073 1073 1066 1097 1097 1097 1097 1097 1094 4094 4094 4102 1683 1683 1684 701 1683 1683 1694 1695 1697 1
P2300V2 P2300V2 P2300V2 P250V2 P250V3	2 200 O MRES SAR Dispole 2 2450 NRES SAR Dispole 2 2650 NRES SAR Dispole 3 2550 NRES SAR DISPORT 3 255	11/1/2021 11/1/2	Triennial Triennial Triennial Biennial Arnual	3/15/2024 3/15/2024 1/15/2024 1/15/2024 1/15/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 6/9/2024 6/9/2024 6/9/2024 10/17/2024 10/17/2024 10/17/2024 5/16/2024	1004 921 855 750 1042 1068 1126 1127 1073 1123 1069 1077 1073 1069 1077 1073 1073 1073 1073 1073 1073 1073
D2300V2 D250V2 D350V2 D350V2 D350V2 D350V2 D350V2 D560V2 D	2 200 O MHE S AR Dipole 2 450 O MHE S AR Dipole 2 600 O MHE S AR Dipole 2 600 O MHE S AR Dipole 2 600 O MHE S AR Dipole 3 500 O MHE S AR Dipole 3 700 O MHE S AR Dipole 3 700 O MHE S AR Dipole 3 600 O MHE S AR Dipole 5 O MHE S AR Dipole 6 O MHE S AR Dipole 1 0 O MHE S AR Dipole 1 1 0 O MHE S AR Dipole 1 2 0 MHE S AR Dipole 1 3 MHE S AR Dip	#15/2021 115/2021 115/2021 115/2021 5/11/2022 5/11/2022 5/11/2022 5/11/2022 5/11/2022 5/11/2022 115/5/2021 6/9/2021 115/5/2021 5/11/2021 9/11/2021 9/11/2021 9/11/2021 115/5/2021 115/5/2021 9/11/2021 115/5/5/2021 115/5/2021 115/5/5/2021 115/5/5/2021 115/5/5/2021 115/5/5/2021 115/5/5/2021 115/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5	Triennial Triennial Triennial Triennial Blennial Blennial Blennial Blennial Blennial Blennial Triennial Triennial Triennial Brennial Brennial Brennial Areasi	3/15/2024 11/4/2024 11/9/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 6/9/2024 11/15/2024 6/9/2024 11/15/	1004 921 855 750 1042 1068 1126 1097 1073 1123 1066 1019 1097 1031 1067 1034 4040 4010 4010 4010 4010 4010 4010
D2300V2 D250V2 D250V2 D250V2 D255V2 D255V2 D255V2 D250V2 D250V3 D	2 200 NMts SAR Dipole 2 2450 NMts SAR Dipole 2 2650 NMts SAR Dipole 3 2050 NMts SAR Dipole 3 2050 NMts SAR Dipole 3 2050 NMts SAR Dipole 5 SMts SAR Dipole 5 SMts SAR Dipole 5 SMts SAR Dipole 6 SMts SAR Dipole 7 550 NMts SAR Dipole 9 SMts SAR Dipole 1 5 SMts SAR	#15/2021 #15/2021 11/14/2021 11/15/2021 11/15/2021 11/15/2021 9/11/2022 11/15/2022	Triennial Triennial Triennial Triennial Biennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Triennial Arnual	3/15/2024 11/4/2024 11/4/2024 11/4/2024 11/4/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 11/15/2024 6/8/2024 11/15/2024 6/8/2024 11/15/2024	1004 921 855 750 1042 1068 1126 1097 1073 1123 1066 1097 1097 1097 1097 1097 1097 1097 1097
D2300V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D2500V2 D2500V2 D2500V2 D3500V2 D3500	2 200 O MRE S AR Dipole 2 450 O MRE S AR Dipole 2 650 O MRE S AR Dipole 2 650 O MRE S AR Dipole 2 650 O MRE S AR Dipole 3 500 O MRE S AR Dipole 3 700 O MRE S AR Dipole 3 700 O MRE S AR Dipole 3 700 O MRE S AR Dipole 5 G MRE S AR Dipole 6 G MRE S AR Dipole 7 50 MRE S AR Dipole 1 750 MRE S AR Equilitation Electronics 1 750 MRE S AR Appuliation Electronics 1 750 MRE S AR Probe 1 5 AR Probe 1 5 AR Probe 1 5 AR Probe 1 750 MRE S AR Dipole 1 750 MRE S AR Probe	#15/2021 115/4/2021 115/4/2021 115/4/2021 5111/2022 5111/2022 5111/2022 5111/2022 5115/2021 69/2021 115/5/2022 69/2021 115/5/2022 52/2022 115/5/2023 511/2021 51	Triennial Triennial Triennial Triennial Blennial Blennial Blennial Blennial Blennial Blennial Briennial Triennial Triennial Triennial Briennial Briennial Briennial Briennial Briennial Armal	3/15/2024 11/4/2024 11/4/2024 11/4/2024 11/4/2024 11/15/2024 15/11/2024 55/11/2024 55/11/2024 55/11/2024 11/15/2024 6/9/2024 11/15/2024 6/9/2024 11/15/2024	1004 921 855 750 1042 1058 1126 1097 1073 1123 1066 1197 1019 1097 1034 40400 40108 1002 1083 1097 1019 1
D2300V2 D250V2 D250V2 D250V2 D255V2 D255V2 D255V2 D250V2 D250V3 D	2 200 NMts SAR Dipole 2 2450 NMts SAR Dipole 2 2650 NMts SAR Dipole 3 2050 NMts SAR Dipole 3 2050 NMts SAR Dipole 3 2050 NMts SAR Dipole 5 CHL SAR Dipole 5 CHL SAR Dipole 5 CHL SAR Dipole 6 CHL SAR Dipole 7 550 NMts SAR Dipole 9 5 Mts SAR Dipole 1	#15/2021 #15/2021 11/14/2021 11/15/2021 11/15/2021 11/15/2021 9/11/2022 9/11/2022 11/15/2022	Triennial Triennial Triennial Triennial Biennial Biennial Biennial Biennial Biennial Biennial Triennial Triennial Triennial Triennial Triennial Arnual	3/15/2024 11/4/2024 11/4/2024 11/4/2024 11/4/2024 11/15/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 11/15/2024 6/8/2024 11/15/2024 6/8/2024 11/15/2024 15/15/2024 15/15/2024	1004 921 855 750 1042 1068 1126 1127 1069 1127 1073 1123 1066 1127 1073 1123 1065 1097 1073 1097 1097 1097 1097 1098 1098 1098 1088 1084 40108 1002 1683 1684 67 701 1333 604 1438 1438 1439 144108 144108 144108 1541 1541 1541 1541 1541 1541 1541 154
D2300V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D2500V2 D2500V2 D2500V2 D3500V2 D3500	2 200 O MRES AS Dispole 2 260 O MRES AS Dispole 3 200 O MRES AS Dispole 5 GILL SA DI	#15/2021 115/4/2021 115/4/2021 115/5/2021 5/11/2022 5/11/2022 5/11/2022 5/11/2022 5/11/2022 115/5/2021 6/9/2021 115/5/2022 115/5/2022 115/5/2022 115/5/2022 115/5/2023 5/11/2022 115/5/2023	Triennial Triennial Triennial Triennial Blennial Blennial Blennial Blennial Blennial Briennial Armad	3/15/2024 11/4/2024 11/4/2024 11/4/2024 11/15/2024 11/15/2024 15/11/2024 55/11/2024 55/11/2024 11/15/2024 6/9/2024 11/15/2024 6/9/2024 11/15/2024	10044 1921 1855 750 1042 1068 1126 1097 1073 1108 11097 1073 11097 1073 1066 10197 1034 40400 40108 1009 1083 1094 1097 1097 1097 1097 1097 1097 1097 1097
P.2300V2 P.2500V2 D.250V2 D.250V3 D.25	2 200 MHz SAR Dipole 2 200 MHz SAR Dipole 2 2450 MHz SAR Dipole 2 2450 MHz SAR Dipole 2 2450 MHz SAR Dipole 2 250 MHz SAR Dipole 2 250 MHz SAR Dipole 2 260 MHz SAR Dipole 2 260 MHz SAR Dipole 2 260 MHz SAR Dipole 3 200 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 6 GHz SAR Dipole 7 50 MHz SAR Dipole 9 5 MHz SAR Dipole 1 5 GHz SAR Requisition Electronics 2 Day Data Acquisition Electronics 3 Day Data Acquisi	#15/2021 #15/2021 11/4/2021 11/4/2021 11/15/2021 9/11/2022 9/11/2022 9/11/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/15/2022 11/17/2022 11/17/2022 11/17/2023	Triennial Armail Biernial Biernial Biernial Biernial Biernial Biernial Biernial Biernial Friennial Triennial Triennial Armail Ar	3/15/2024 3/15/2024 11/4/2024 11/4/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 5/11/2024 11/15/2024 6/6/2024 11/15/2024	1004 1021 855 750 1042 1068 1126 1126 11073 1123 1066 11077 11073 11097 10073 1123 1066 1069 1069 1077 1073 1077 1073 1077 1073 1077 1077
D2300V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D2500V2 D2500V2 D2500V2 D3500V2 D3500V2 D3500V2 D3500V2 D3500V2 D3500V2 D560V2	2 200 MNHE SAR Dispole 2 260 MNHE SAR Dispole 3 260 MNHE SAR Dispole 3 260 MNHE SAR Dispole 3 270 MNHE SAR Dispole 3 270 MNHE SAR Dispole 3 260 MNHE SAR Dispole 5 GHE SAR Dispole 5 GHE SAR Dispole 6 GHE SAR Dispole 6 GHE SAR Dispole 7 50 MNHE SAR Dispole 1 260 MNHE SAR Probe 1 260 MNHE SAR	#15/2021 115/4/2021 115/4/2021 115/5/2021 5/11/2022 5/11/2022 5/11/2022 5/11/2022 115/5/2021 6/9/2021 115/5/2022 115/5/5/202 115/5/202 115/5/202 115/5/202 115/5/202 115/5/202 115/5/202 115/5/202 115/5/202 115/5/202 115/5/202 115/5/202	Triennial Triennial Triennial Seenial Seenial Seenial Seenial Seenial Triennial Triennial Triennial Triennial Triennial Triennial Triennial Arexal	3/15/2024 11/4/2024 11/9/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 6/9/202	1004 1016 1021 1021 1032 1042 1058 1126 1097 1073 1123 1066 1019 1097 1034 40400 40108 40108 1019 1087 1034 1019 1019 1057 1034 1040 1057 105
P.2300V2 P.2500V2 P.250V2 P.250V3 P.250V4 P.25	2300 MHE SAR Dipole 2300 MHE SAR Dipole 2400 MHE SAR Dipole 2450 MHE SAR Dipole 2600 MHE SAR Dipole 2600 MHE SAR Dipole 2600 MHE SAR Dipole 3600 MHE SAR Dipole 3700 MHE SAR Dipole 3700 MHE SAR Dipole 3700 MHE SAR Dipole 5 GHE SAR Dipole 6 GHE SAR Dipole 9 SAR SAR Dipole 15 GHE SAR PRODE 15 GHE POLE 15 GHE SAR PRODE 15 GHE POLE 15 GHE POLE 15 GHE POLE 15 GHE SAR PRODE 15 GHE POLE 15 G	#15/2021 #15/2021 11/4/2021 11/4/2021 11/15/2021 5/11/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021 6/9/2021 11/15/2022 11/15/2022 11/15/2022 11/17/2022 11/17/2022 11/17/2022 11/17/2023 11/17/2	Triennial Armail Biernial Armail	3/15/2024 3/15/2024 11/9/2024 11/9/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 11/15/2024 6/9/2024 6/9/2024 6/9/2024 6/9/2024 6/9/2024 11/15/2024 3/12/2024 11/17/2024 3/15/2024	1004 1021 1031 1042 1053 1068 1126 1126 1127 1073 1123 1066 1127 1127 1127 1128 1129 1129 1129 1129 1129 1129 1129
D2300V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D250V2 D2500V2 D2500V2 D2500V2 D3500V2 D3500V	2 200 MNHS SAR Dispole 2 260 MNHS SAR Dispole 3 200 MNHS SAR Dispole 5 GHS SAR Dispole 5 GHS SAR Dispole 6 GHS SAR Dispole 6 GHS SAR Dispole 7 250 MNHS SAR Dispole 1 250 MNHS SAR Probe 1 250 MNHS SAR	#15/2021 11/4/2021 11/4/2021 11/4/2021 11/4/2021 5/11/2022 5/11/2022 5/11/2022 5/11/2022 11/15/2022 6/9/2021 16/9/2021 11/15/2022 11/15/2	Triennial Triennial Triennial Triennial Blennial Blennial Blennial Blennial Blennial Briennial Triennial Triennial Triennial Triennial Triennial Arenal	3/15/2024 11/4/2024 11/4/2024 11/4/2024 11/4/2024 11/15/2024	1004 1014 1021 1021 1032 1042 1058 1126 1097 1073 1123 1066 1097 1034 40400 40108 1019 1034 40400 1063 1019 1034 1019 1034 103
P.2300V2 P.2500V2 P.250V2 P.250V3 P.250V4 P.25	2 200 MHz SAR Dipole 2 200 MHz SAR Dipole 2 2450 MHz SAR Dipole 2 2500 MHz SAR Dipole 2 2600 MHz SAR Dipole 2 2600 MHz SAR Dipole 2 2600 MHz SAR Dipole 3 2000 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole 6 GHz SAR Dipole 7 500 MHz SAR Dipole 9 5 GHz SAR Dipole 1 5 GHz SAR Acqualition Electronics 2 Day Data Acqualition Electronics 3 SAR Probe 5 SAR Probe	#15/2021 #15/2021 11/4/2021 11/4/2021 11/15/2021 5/11/2022 5/11/2022 5/11/2022 5/11/2022 11/15/2022 5/11/2022 11/15/2022 11/15/2022 11/17/2023 10/11/2023 11/11/2023	Triennial Armail Biernial Biernial Biernial Biernial Biernial Biernial Biernial Biernial Biernial Armail Ar	3/15/2024 3/15/2024 11/9/2024 11/9/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 11/15/2024	1004 1021 1032 1042 1053 1068 1126 1068 1127 1073 1123 1066 10197 1073 1123 1066 10197 1073 1123 1066 10197 1073 1123 1066 10197 1073 1073 1073 1073 1073 1073 1073 107
D2300V2 D250V2 D	2300 MNHE SAR Dispole 2450 MNHE SAR Dispole 2650 MNHE SAR Dispole 3500 MNHE SAR Dispole 3500 MNHE SAR Dispole 3700 MNHE SAR Dispole 3700 MNHE SAR Dispole 3700 MNHE SAR Dispole 3700 MNHE SAR Dispole 5 GHE SAR Dispole 5 GHE SAR Dispole 5 GHE SAR Dispole 6 GHE SAR Dispole 6 GHE SAR Dispole 1750 MNHE SAR PROBE 1750	#15/2021 115/10201 115/10201 115/10201 5/11/10202 5/11/10202 5/11/10202 5/11/10202 5/11/10202 115/5/0202 6/9/10201 115/5/0202	Triennial Triennial Triennial Siennial Siennial Siennial Siennial Siennial Triennial Triennial Triennial Triennial Triennial Triennial Siennial Siennial Siennial Arenal	3/15/2024 11/9/2024 11/9/2024 11/9/2024 11/9/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 6/9/2024 11/15/2024 6/9/2024 11/15/2024 6/9/2024 11/15/2024	10044 1921 1855 750 1042 1068 1126 1097 1073 1103 1066 11097 1073 1103 1066 10197 1034 40404 40108 1002 1683 1019 1684 1011 1684 1011 1687 1034 1684 1012 1683 1684 1701 171 171 172 173 174 175 175 175 175 175 175 175 175 175 175
D2200V2 D2250V2 D2550V2 D2550V	2300 MNHE SAR Dipole 2450 MNHE SAR Dipole 3500 MNHE	#15/4/2021 #15/4/2021	Triennial Triennial Triennial Triennial Blennial Blennial Blennial Blennial Blennial Blennial Brennial Triennial Triennial Triennial Triennial Brennial Brennial Brennial Brennial Brennial Brennial Brennial Armal	3/15/2024 11/4/2024 11/4/2024 11/15/2024 11/15/2024 5/11/2024 5/11/2024 5/11/2024 6/9/2024 6/9/2024 11/15/2024 6/9/2024 11/15/2024 6/9/2024 11/15/2024	1004 1021 1031 1042 1053 1042 1068 1126 1068 1127 1073 1123 1066 1097 1073 1123 1066 1097 1073 1123 1066 1097 1097 1097 1097 1097 1097 1097 1097
D2300V2 D250V2 D	2300 MNHE SAR Dispole 2450 MNHE SAR Dispole 2650 MNHE SAR Dispole 3500 MNHE SAR Dispole 3500 MNHE SAR Dispole 3700 MNHE SAR Dispole 3700 MNHE SAR Dispole 3700 MNHE SAR Dispole 3700 MNHE SAR Dispole 5 GHE SAR Dispole 5 GHE SAR Dispole 5 GHE SAR Dispole 6 GHE SAR Dispole 6 GHE SAR Dispole 1750 MNHE SAR PROBE 1750	#15/2021 115/10201 115/10201 115/10201 5/11/10202 5/11/10202 5/11/10202 5/11/10202 5/11/10202 115/5/0202 6/9/10201 115/5/0202	Triennial Triennial Triennial Siennial Siennial Siennial Siennial Siennial Triennial Triennial Triennial Triennial Triennial Triennial Siennial Siennial Siennial Arenal	3/15/2024 11/9/2024 11/9/2024 11/9/2024 11/9/2024 11/9/2024 11/15/2024 5/11/2024 5/11/2024 6/9/2024 11/15/2024 6/9/2024 11/15/2024 6/9/2024 11/15/2024	1004 921 855 750 1042 1058 1126 1097 1073 1123 1066 1197 1034 4040 4010 4010 4010 1034 103

Note:

- 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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14 MEASUREMENT UNCERTAINTIES

For SAR Measurements

For SAR Measurements									_
a	b	С	d	e=	f	8	h =	i =	k
				f(d , k)			cxf/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 _i	v _i
	000.						(±%)	(± %)	
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	00
Ax ial Is otro py	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	0.8	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)	1	1	RSS				12.2	12.0	191
Expanded Uncertainty			k=2				24.4	24.0	
(95% CONFIDENCE LEVEL)									

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

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