



ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)

7185 Oakland Mills Road, Columbia, MD 21046 USA

Tel. +1.410.290.6652 / Fax +1.410.290.6654

<http://www.element.com>



RF Exposure Part 0 Test Report

Applicant Name:

Samsung Electronics Co., Ltd.
129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:

09/02/2024 - 10/28/2024

Test Site/Locations:

Element, Columbia, MD, USA
Element Morgan Hill, CA, USA
Element, Suwon, Korea

Document Serial No.:

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FCC ID:

A3LSMS936U

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

Report Type:

SAR Characterization

DUT Type:

Portable Handset

Model(s):

SM-S936U

Additional Model(s):

SM-S936U1

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.



RJ Ortanez
Executive Vice President



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APPENDIX A: PART 0 SAR TEST RESULTS FOR P_{LIMIT} CALCULATIONS

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/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 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	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 38	Voice/Data	2572.5 - 2617.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n14	Voice/Data	790.5 - 795.5 MHz
NR Band n26	Voice/Data	816.5 - 846.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n70	Voice/Data	1697.5 - 1707.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n38	Voice/Data	2575 - 2615 MHz
NR Band n48	Voice/Data	3555 - 3694.98 MHz
NR Band n78	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3795 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3975 MHz
NTN Band 255	Data	1629 - 1658 MHz
NR Band n258	Data	24250 - 24450 MHz; 24750 - 25250 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2462 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

The purpose of this report is to show SAR Characterization of WWAN sub-6/WLAN/BT (Part0) and to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels (Part1).

1.2.1 Nomenclature

Technology	Term	Description
WWAN Sub-6 /WLAN/BT	P_{limit}	Power level that corresponds to the exposure design target (SAR_{design_target}) after accounting for all device design related uncertainties
	P_{max}	Maximum tune up output power
	SAR_{design_target}	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	SAR_{Char}	Table containing P_{limit} for all technologies and bands

1.2.2 Time-Averaged Algorithm

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature with antenna grouping. This feature performs time-averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.3– Bibliography).

Note that NTN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_{design_target} or PD_{design_target} , below the predefined time-averaged power limit (i.e., P_{limit} for WWAN sub-6/WLAN/BT radio, and $input.power.limit$ for 5G mmW NR), for each characterized technology and band. Characterization is achieved by determining P_{limit} for WWAN sub-6/WLAN/BT 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 (see SAR Summary Section and Part 0 SAR Test Results for P_{limit} Calculations Appendix).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for WWAN sub-6/WLAN/BT is 1.0dB for this EUT.

The maximum time-averaged output power (dBm) for any WWAN sub-6/WLAN/BT technology, band, and DSI is the minimum of (" P_{limit} EFS" and "Maximum tune up output power P_{max} ") + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

1.3 Bibliography

Report Type	Report Serial Number
RF Exposure Part 1 Test Report	1M2408260064-23.A3L
Near Field PD Report (Part 1)	1M2408260064-25.A3L
Near Field PD Report (Part 0)	
RF Exposure Part 2 Test Report	1M2408260064-24.A3L
RF Exposure Compliance Summary Report	1M2408260064-26.A3L

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2 SAR AND POWER DENSITY MEASUREMENTS

1.1 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]

1.2 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 2-1) 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.
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

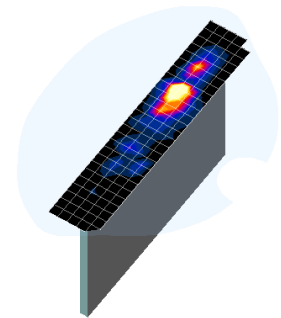


Figure 2-1
Sample SAR Area Scan

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size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 2-1) and IEEE 1528-2013. On the 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 2-1. 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*

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
			$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	$\Delta z_{\text{zoom}}(n>1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

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3 PART 0 SAR CHARACTERIZATION

3.1 SAR Characterization

3.1.1 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 smartphone, 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.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

The device state index (DSI) conditions used in Table 2-1 represent different exposure scenarios.

Table 3-1
DSI and Corresponding Exposure Scenarios

Scenario	Description	SAR Test Cases
Head (DSI = 1)	- Device positioned next to head - Receiver Active	Head SAR per KDB Publication 648474 D04
Hotspot mode (DSI = 0)	- Device transmits in hotspot mode near body - Hotspot Mode Active	Hotspot SAR per KDB Publication 941225 D06
Phablet (DSI = 0)	Device is held with hand	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Body-worn (DSI = 0)	Device being used with a body-worn accessory	Body-worn SAR per KDB Publication 648474 D04

3.1.2 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 2-2).

Table 3-2
SAR_design_target Calculations

SAR_design_target			
$SAR\_design\_target < SAR\_regulatory\_limit \times 10^{\frac{-Total\ Uncertainty}{10}}$			
1g SAR (W/kg)		10g SAR (W/kg)	
Total Uncertainty	1.0 dB	Total Uncertainty	1.0 dB
SAR_regulatory_limit	1.6 W/kg	SAR_regulatory_limit	4.0 W/kg
SAR_design_target	1.0 W/kg	SAR_design_target	2.5 W/kg

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3.1.3 SAR Char

SAR test results corresponding to P_{max}/P_{limit} for each antenna/technology/band/DSI can be found in SAR Summary Section and Part 0 SAR Test Results for Plimit Calculations Appendix.

P_{limit} is calculated by linearly scaling with the measured SAR at the Ppart0 to correspond to the SAR_{design_target} . When $P_{limit} < P_{max}$, P_{part0} was used as P_{limit} in the Smart Transmit EFS. When $P_{limit} > P_{max}$ and $P_{part0}=P_{max}$, calculated P_{limit} was used in the Smart Transmit EFS. For some bands/modes, the manufacture selected a lower P_{limit} . All reported SAR obtained from the Ppart0 SAR tests was less than $SAR_{Design\_target}+ 1$ dB Uncertainty. The final P_{limit} determination for each exposure scenario corresponding to SAR_{design_target} are shown in Table 2-3.

Table 3-3
 P_{Limit} Determination

Device State Index (DSI)	P_{Limit} Determination Scenarios
0	The worst-case SAR exposure is determined as maximum SAR normalized to the limit (i.e. lowest P_{limit}) among: 1. Body Worn SAR 2. Extremity SAR measured at 0 mm for all surfaces. 3. Hotspot SAR at 10 mm
1	P_{limit} is calculated based on 1g Head SAR

Notes:

- When $P_{max} < P_{limit}$ EFS, the DUT will operate at a power level up to P_{max}
- 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, GMSK, or OFDM modulation schemes (e.g. GSM, LTE TDD and WLAN/BT).
- Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.
- All MIMO P_{max} and P_{limit} are defined per antenna chain.

Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting Reserve_power_margin (Smart Transmit EFS entry) to 0dB.

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Table 3-4
SAR Characterizations

Exposure Scenario Averaging Volume Spacing Configuration DSI			Maximum Tune-Up Output Power*	Body-Worn, Hotspot, or Phablet	Head
				1g/10g	1g
				10mm, 0mm	0mm
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}
GSM 850	A	AG0	25.3	30.2	30.2
GSM 850	E	AG1	25.3	28.4	20.8
GSM 1900	A	AG0	22.1	17.8	28.0
UMTS 850	A	AG0	24.0	28.0	29.8
UMTS 850	E	AG1	24.0	26.8	21.0
UMTS 1750	A	AG0	22.5	18.0	27.6
UMTS 1900	A	AG0	23.5	17.5	27.8
LTE Band 71	A	AG0	24.0	28.7	30.1
LTE Band 71	E	AG1	24.0	28.4	18.0
LTE Band 12	A	AG0	24.3	29.5	30.3
LTE Band 12	E	AG1	24.3	27.9	21.0
LTE Band 13	A	AG0	24.0	28.5	30.0
LTE Band 13	E	AG1	24.0	26.2	21.0
LTE Band 14	A	AG0	24.3	28.8	29.9
LTE Band 14	E	AG1	24.3	26.4	21.0
LTE Band 26/5	A	AG0	24.0	28.8	29.8
LTE Band 26/5	E	AG1	24.0	26.2	21.0
LTE Band 66/4	A	AG0	23.5	18.5	27.3
LTE Band 66/4	F	AG1	23.5	20.0	16.0
LTE Band 25/2	A	AG0	23.5	18.0	28.8
LTE Band 25/2	F	AG1	23.5	20.0	18.0
LTE Band 30	A	AG0	22.5	19.0	34.8
LTE Band 30	F	AG1	22.5	18.0	16.5
LTE Band 7	B	AG0	23.0	19.0	31.2
LTE Band 7	F	AG1	23.0	17.0	15.5
LTE Band 41	B	AG0	22.0	19.0	18.4
LTE Band 41	F	AG1	22.0	16.0	14.5
LTE Band 38	B	AG0	22.0	17.0	18.4
LTE Band 38	F	AG1	22.0	14.5	12.5
LTE Band 48	F	AG1	20.5	16.5	12.5
NR Band n71	A	AG0	24.0	28.4	31.0
NR Band n71	E	AG1	24.0	27.5	18.0
NR Band n12	A	AG0	24.3	28.6	31.2
NR Band n12	E	AG1	24.3	28.2	21.0
NR Band n14	A	AG0	24.0	28.7	34.2
NR Band n14	E	AG1	24.0	26.8	21.0
NR Band n26/n5	A	AG0	24.0	27.6	33.5
NR Band n26/n5	E	AG1	24.0	25.8	21.0
NR Band n70	A	AG0	23.0	19.0	28.5
NR Band n70	F	AG1	23.0	19.0	16.0
NR Band n66	A	AG0	23.5	18.5	26.7
NR Band n66	F	AG1	23.5	20.0	16.0
NR Band n25/n2	A	AG0	23.5	18.0	28.0
NR Band n25/n2	F	AG1	23.5	20.0	18.0
NR Band n30	A	AG0	22.5	19.0	34.9
NR Band n30	F	AG1	22.5	18.0	16.5
NR Band n7	B	AG0	23.0	19.0	30.7
NR Band n7	F	AG1	23.0	17.0	15.5
NR Band n41 PC2 (Path 1)	F	AG1	26.0	16.5	13.5
NR Band n41 PC2 (Path 1)	B	AG0	25.0	19.0	17.5
NR Band n41 PC2 (Path 1)	E	AG1	24.0	17.5	16.0
NR Band n41 PC2 (Path 1)	D	AG0	20.0	15.5	14.0
NR Band n41 PC2 (Path 2)	B	AG0	26.0	20.0	24.0
NR Band n41 PC2 (Path 2)	F	AG1	21.0	16.5	13.5
NR Band n41 PC2 (Path 2)	D	AG0	22.0	15.5	14.0
NR Band n41 PC2 (Path 2)	E	AG1	19.0	17.5	16.0
NR Band n38 (Path 1)	F	AG1	24.0	16.5	13.5
NR Band n38 (Path 2)	B	AG0	24.0	19.0	24.0
NR Band n48	F	AG1	22.5	18.0	14.0
NR Band n48	C	AG0	19.5	13.0	9.0
NR Band n48	I	AG1	22.5	16.0	12.0
NR Band n48	D	AG0	18.5	11.5	7.5
NR Band n77/n78 PC2	F	AG1	26.0	17.0	15.0
NR Band n77/n78 PC2	C	AG0	19.0	11.0	10.0
NR Band n77/n78 PC2	I	AG1	23.5	15.0	14.0
NR Band n77/n78 PC2	D	AG0	18.0	10.0	9.0
2.4 GHz WiFi	H	AG1	19.0	20.1	13.0
2.4 GHz WiFi	J	AG1	19.0	25.1	13.0
2.4 GHz WiFi	MIMO	AG1	19.0	19.6	13.0
5 GHz WiFi	H	AG1	17.0	16.0	13.0
5 GHz WiFi	E	AG1	17.0	16.0	13.0
5 GHz WiFi	MIMO	AG1	17.0	16.0	13.0
6 GHz WiFi	H	AG1	16.0	10.5	9.0
6 GHz WiFi	E	AG1	16.0	10.5	9.0
6 GHz WiFi	MIMO	AG1	16.0	10.5	9.0
2.4 GHz Bluetooth	H	AG1	17.4	20.2	10.9
2.4 GHz Bluetooth	J	AG1	17.4	26.9	10.9
2.4 GHz Bluetooth	MIMO	AG1	10.9	19.3	17.7

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4 EQUIPMENT LIST

Manufacturer	Model	Description	Est Date	Est Impact	Est Date	Serial Number
Agilent	E4408C	Spectrum Analyzer	N/A	N/A	N/A	MPW113342
Agilent	E4408C	ESG Vector Signal Generator	11/14/2023	Annual	11/14/2024	MY6008032
Agilent	E4408C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY6008033
Agilent	N9182A	MMS Vector Signal Generator	10/13/2023	Annual	10/13/2024	MY4040025
Agilent	E5052B	800 Vector Signal Generator	9/1/2024	Annual	9/1/2025	MY4040026
Agilent	E5052B	5-Parameter Vector Network Analyzer	12/22/2023	Annual	12/22/2025	MY5050141
Agilent	E5052B	5-Parameter Vector Network Analyzer	7/22/2023	Annual	7/22/2024	US3970118
Agilent	E5052C	Wireless Communications Test Set	CBT	N/A	CBT	084630709
Agilent	E5052C	Wireless Communications Test Set	CBT	N/A	CBT	US4134026
Agilent	E5052C	Wireless Communications Test Set	CBT	N/A	CBT	084630709
Amplifier Research	150-005	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	150-005	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150-005	Amplifier	CBT	N/A	CBT	433975
Anritsu	MMB1100	I/O Adapter	CBT	N/A	CBT	626174763
Anritsu	NA-100A	Power Meter	6/24/2024	Annual	6/24/2025	1840000
Anritsu	NA-100A	Power Meter	7/29/2023	Annual	7/29/2024	1070000
Anritsu	MAA4100	Pulse Power Sensor	8/22/2023	Annual	8/22/2024	1726262
Anritsu	MAA4100	Pulse Power Sensor	11/16/2023	Annual	11/16/2024	1027200
Anritsu	MT8802C	Radio Communication Analyzer MT8802C	12/15/2023	Annual	12/15/2024	4200001100
Anritsu	MT8802C	Radio Communication Analyzer MT8802C	5/12/2024	Annual	5/12/2025	326210047
Anritsu	MT8802C	Radio Communication Analyzer MT8802C	5/29/2024	Annual	5/29/2025	626204115
Anritsu	MT8800A	Radio Communication Test Station	4/10/2024	Annual	4/10/2025	626267983
Anritsu	MT8800A	Radio Communication Test Station	5/2/2024	Annual	5/2/2025	612137046
Anritsu	MMQ420A	USB Power Sensor	12/14/2023	Annual	12/14/2024	3262021
Anritsu	MMQ420A	USB Power Sensor	4/12/2024	Annual	4/12/2025	3827238
Mini-Circuits	PWR-4025	USB Power Sensor	9/12/2024	Annual	9/12/2025	1200270013
Control Company	4002	Long Stem Thermometer	2/27/2024	Biannual	2/27/2026	240274346
Control Company	4002	Long Stem Thermometer	3/17/2024	Biannual	3/17/2026	240275006
Control Company	4002	Long Stem Thermometer	3/27/2024	Biannual	3/27/2026	240275050
Control Company	4040	Therm / Clock/ Humidity Monitor	4/12/2024	Biannual	4/12/2026	240310280
Control Company	4040	Therm / Clock/ Humidity Monitor	4/12/2024	Biannual	4/12/2026	240310281
Control Company	5687P	Therm / Clock/ Humidity Monitor	2/16/2024	Biannual	2/16/2026	240340001
Midwest Technology	5687P-000	5-Parameter Vector Network Analyzer	4/16/2024	Annual	4/16/2025	A-2013911
Raylight Technologies	MO500A	MOA Signal Analyzer	4/11/2023	Annual	4/11/2025	MY1400044
Agilent	N9020A	NAI Signal Analyzer	6/14/2024	Annual	6/14/2025	MY1401032
NCL	BW-A0000+	CBT	N/A	N/A	N/A	118
Mini-Circuits	VLF-4000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-4000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-A0000+	DC to 38 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 2000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 2000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-A02005	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	210CC-B55+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4710-3	Attenuator (SMB)	CBT	N/A	CBT	9406
Seaborn	NC-100	Torque Wrench	10/11/2023	Biannual	10/11/2025	22847
Seaborn	NC-100	Torque Wrench	4/2/2024	Biannual	4/2/2026	1262
Rohde & Schwarz	CMA400	Wideband Radio Communication Tester	1/11/2024	Annual	1/11/2025	130117
Rohde & Schwarz	CMA400	Wideband Radio Communication Tester	1/10/2024	Annual	1/10/2025	131494
Rohde & Schwarz	CMA400	Wideband Radio Communication Tester	8/19/2023	Annual	8/19/2024	140144
Rohde & Schwarz	CMA400	Wideband Radio Communication Tester	8/9/2023	Annual	8/9/2024	141126
SPEAG	DA4-3.1	Diagnostic Assessment Kit	11/13/2023	Annual	11/13/2024	1277
SPEAG	DA4-3.1	Portable Diagnostics Assessment Kit	8/14/2022	Annual	8/14/2024	3041
SPEAG	MA0A	Modulation and Audio Reference Analyzer	N/A	N/A	N/A	1237
SPEAG	MA0A	Modulation and Audio Reference Analyzer	N/A	N/A	N/A	1331
SPEAG	MA0A	Modulation and Audio Reference Analyzer	N/A	N/A	N/A	1390
SPEAG	DA4-12	Diagnostic Assessment Kit (DA4+ - 32GB)	9/11/2024	Annual	9/11/2025	1102
SPEAG	CLA-10	Confined Loop Antenna	11/9/2023	Annual	11/9/2025	3024
SPEAG	DS0003	750MHz SAA Dipole	5/16/2022	Triannual	5/16/2025	3067
SPEAG	DS0003	750MHz SAA Dipole	10/29/2021	Triannual	10/29/2024	1161
SPEAG	DS0003	750MHz SAA Dipole	9/24/2021	Triannual	9/24/2025	2254
SPEAG	DS0003	750MHz SAA Dipole	9/12/2023	Biannual	9/12/2025	2097
SPEAG	DS0012	800MHz SAA Dipole	5/12/2024	Annual	5/12/2025	44110
SPEAG	DS0012	800MHz SAA Dipole	5/16/2022	Triannual	5/16/2025	44040
SPEAG	DS0012	800MHz SAA Dipole	4/26/2024	Annual	4/26/2025	44110
SPEAG	DS0400-2	3000 MHz SAA Dipole	12/13/2023	Biannual	12/13/2024	11
SPEAG	DS1700-2	1700 MHz SAA Dipole	10/21/2021	Triannual	10/21/2024	1100
SPEAG	DS1700-2	1700 MHz SAA Dipole	4/15/2023	Annual	4/15/2025	1051
SPEAG	DS1700-2	1700 MHz SAA Dipole	1/18/2022	Triannual	1/18/2025	1148
SPEAG	DS0000-2	3000 MHz SAA Dipole	2/11/2022	Triannual	2/11/2025	54146
SPEAG	DS0000-2	3000 MHz SAA Dipole	4/12/2024	Annual	4/12/2025	54145
SPEAG	DS0000-2	3000 MHz SAA Dipole	11/14/2023	Annual	11/14/2024	3004
SPEAG	DS0000-2	3000 MHz SAA Dipole	5/11/2024	Annual	5/11/2025	3108
SPEAG	DS0000-2	3000 MHz SAA Dipole	2/26/2024	Annual	2/26/2025	882
SPEAG	DS0000-2	3000 MHz SAA Dipole	5/12/2024	Annual	5/12/2025	565
SPEAG	DS0000-2	3000 MHz SAA Dipole	5/12/2022	Triannual	5/12/2025	120
SPEAG	DS0000-2	3000 MHz SAA Dipole	11/15/2022	Biannual	11/15/2024	855
SPEAG	DS0000-2	3000 MHz SAA Dipole	5/12/2022	Triannual	5/12/2025	2142
SPEAG	DS0000-2	3000 MHz SAA Dipole	9/12/2023	Biannual	9/12/2025	3069
SPEAG	DS0000-2	3000 MHz SAA Dipole	6/14/2024	Annual	6/14/2025	3009
SPEAG	DS0000-2	3000 MHz SAA Dipole	1/12/2024	Annual	1/12/2025	3009
SPEAG	DS0000-2	3000 MHz SAA Dipole	1/12/2023	Annual	1/12/2024	3009
SPEAG	DS0000-2	3000 MHz SAA Dipole	1/12/2023	Biannual	1/12/2025	1267
SPEAG	DS0000-2	3000 MHz SAA Dipole	10/19/2023	Annual	10/19/2024	3056
SPEAG	DS0000-2	3000 MHz SAA Dipole	1/26/2024	Annual	1/26/2025	3018
SPEAG	DS0000-2	3000 MHz SAA Dipole	4/29/2024	Annual	4/29/2025	1237
SPEAG	DS0000-2	3000 MHz SAA Dipole	2/22/2024	Annual	2/22/2025	1111
SPEAG	DS0000-2	3000 MHz SAA Dipole	10/11/2023	Annual	10/11/2024	3010
SPEAG	DS0000-2	3000 MHz SAA Dipole	9/4/2024	Annual	9/4/2025	3007
SPEAG	SA0000-2	3000 MHz SAA Dipole	9/12/2024	Annual	9/12/2025	3002
SPEAG	SA0000-2	3000 MHz SAA Dipole	8/22/2024	Annual	8/22/2025	3004
SPEAG	DA04	Day Data Acquisition Electronics	1/16/2024	Annual	1/16/2025	1182
SPEAG	DA04	Day Data Acquisition Electronics	7/21/2024	Annual	7/21/2025	1177
SPEAG	DA04	Day Data Acquisition Electronics	4/29/2024	Annual	4/29/2025	1415
SPEAG	DA04	Day Data Acquisition Electronics	3/2/2024	Annual	3/2/2025	605
SPEAG	DA04	Day Data Acquisition Electronics	5/26/2024	Annual	5/26/2025	3978
SPEAG	DA04	Day Data Acquisition Electronics	5/26/2024	Annual	5/26/2025	729
SPEAG	DA04	Day Data Acquisition Electronics	1/16/2024	Annual	1/16/2025	1182
SPEAG	DA04	Day Data Acquisition Electronics	1/16/2024	Annual	1/16/2025	1182
SPEAG	DA04	Day Data Acquisition Electronics	8/26/2024	Annual	8/26/2025	1232
SPEAG	DA04	Day Data Acquisition Electronics	6/11/2024	Annual	6/11/2025	1184
SPEAG	DA04	Day Data Acquisition Electronics	4/18/2024	Annual	4/18/2025	1407
SPEAG	DA04	Day Data Acquisition Electronics	3/16/2024	Annual	3/16/2025	607
SPEAG	DA04	Day Data Acquisition Electronics	5/26/2024	Annual	5/26/2025	1083
SPEAG	DA04	Day Data Acquisition Electronics	4/29/2024	Annual	4/29/2025	1012
SPEAG	DA04	Day Data Acquisition Electronics	2/27/2024	Annual	2/27/2025	1445
SPEAG	DA04	Day Data Acquisition Electronics	5/26/2024	Annual	5/26/2025	1002
SPEAG	DA04	Day Data Acquisition Electronics	3/16/2024	Annual	3/16/2025	1076
SPEAG	DA04	Day Data Acquisition Electronics	5/26/2024	Annual	5/26/2025	104
SPEAG	DA04	Day Data Acquisition Electronics	3/16/2024	Annual	3/16/2025	534
SPEAG	DA04	Day Data Acquisition Electronics	3/12/2024	Annual	3/12/2025	1173
SPEAG	DA04	Day Data Acquisition Electronics	1/16/2024	Annual	1/16/2025	1130
SPEAG	DA04	Day Data Acquisition Electronics	7/16/2024	Annual	7/16/2025	1083
SPEAG	DA04	Day Data Acquisition Electronics	12/26/2023	Annual	12/26/2024	1038
SPEAG	ES0004	SAR Probe	4/16/2024	Annual	4/16/2025	7057
SPEAG	ES0004	SAR Probe	7/16/2024	Annual	7/16/2025	7406
SPEAG	ES0004	SAR Probe	2/26/2024	Annual	2/26/2025	7168
SPEAG	ES0004	SAR Probe	1/16/2024	Annual	1/16/2025	7065
SPEAG	ES0004	SAR Probe	9/2/2024	Annual	9/2/2025	7061
SPEAG	ES0004	SAR Probe	8/26/2024	Annual	8/26/2025	7488
SPEAG	ES0004	SAR Probe	4/11/2024	Annual	4/11/2025	7059
SPEAG	ES0004	SAR Probe	5/26/2024	Annual	5/26/2025	7660
SPEAG	ES0004	SAR Probe	4/11/2024	Annual	4/11/2025	7718
SPEAG	ES0004	SAR Probe	2/26/2024	Annual	2/26/2025	7617
SPEAG	ES0004	SAR Probe	4/11/2024	Annual	4/11/2025	7059
SPEAG	ES0004	SAR Probe	5/12/2024	Annual	5/12/2025	7061
SPEAG	ES0004	SAR Probe	4/11/2024	Annual	4/11/2025	7037
SPEAG	ES0004	SAR Probe	3/26/2024	Annual	3/26/2025	7640
SPEAG	ES0004	SAR Probe	5/16/2024	Annual	5/16/2025	7402
SPEAG	ES0004	SAR Probe	5/16/2024	Annual	5/16/2025	3014
SPEAG	ES0004	SAR Probe	3/16/2024	Annual	3/16/2025	7227
SPEAG	ES0004	SAR Probe	9/12/2024	Annual	9/12/2025	7058
SPEAG	ES0004	SAR Probe	1/12/2024	Annual	1/12/2025	7070
SPEAG	ES0004	SAR Probe	6/26/2024	Annual	6/26/2025	7803
SPEAG	ES0004	SAR Probe	5/16/2024	Annual	5/16/2025	7402
SPEAG	ES0004	SAR Probe	2/27/2024	Annual	2/27/2025	6022
SPEAG	ES0004	SAR Probe	3/4/2024	Annual	3/4/2025	9421

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.

Note: All equipment was used solely within its respective calibration period.

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5 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6GHz:

a	b	c	d	e = f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
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	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
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	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0

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

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Applicable for SAR measurements > 6GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
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	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
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	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	13.8	13.6
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	27.6	27.1

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

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Applicable for Power Density Measurements:

a	b	c	d	e	f = c x f/e	g
Uncertainty Component	Unc. (± dB)	Prob. Dist.	Div.	c _i	u _i (± dB)	v _i
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor Mechanical Offset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedance Dependence	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related						
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)					RSS	1.34
Expanded Uncertainty (95% CONFIDENCE LEVEL)					k=2	2.68

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