

Prüfbericht-Nr.: Test report no.:	CN26NHAO 004	Auftrags-Nr.: Order no.:	168585292	Seite 1 von 31 Page 1 of 31
Kunden-Referenz-Nr.: Client reference no.:		Auftragsdatum: Order date:	2025-11-16	
Auftraggeber: Client:	Odyssey Robot LLC Address: 21 Miller Alley Suite210, Pasadena, CA 91103			
Prüfgegenstand: Test item:	Remote Controller			
Bezeichnung / Typ-Nr.: Identification / Type no.:	YMAWZOD			
Auftrags-Inhalt: Order content:	SAR Test Report			
Prüfgrundlage: Test specification:	FCC 47 CFR § 2.1093 IEEE Std 1528-2013 Published RF exposure KDB procedures			
Wareneingangsdatum: Date of sample receipt:	2025-11-18	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A004141367-007			
Prüfzeitraum: Testing period:	2025-12-18 ~ 2025-12-19			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	<u>X Bell Hu</u>		genehmigt von: authorized by:	<u>X Jonathan Li</u>
Datum: Date:	2026-01-09	Ausstellungsdatum: Issue date:		2026-01-09
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2BSYT-YMAWZOD			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
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Anmerkungen
Remarks

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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Appendix B: SAR Plots of SAR Measurement

Appendix C: Calibration Certificate for probe and Dipole

Appendix D: Photographs of EUT and setup

1. General Information

1.1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for the EUT are as follows:

Operating Mode	Highest Body SAR _{1g} (0 cm Gap) (W/kg)	Highest Extremity SAR _{1g} (0 cm Gap) (W/kg)
2.4GHz Band	0.31	0.96
5.8GHz Band	0.44	1.23
Highest MIMO SAR	Body SAR _{1g} (W/kg)	Extremity SAR _{1g} (W/kg)
MIMO_2.4GHz Band	0.54	1.57
MIMO_5.8GHz Band	0.87	2.24

Note:

1. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg as averaged over any 1 gram of tissue; 10-gram SAR for Product Specific 10g SAR, limit: 4.0W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.
2. This device is a hand-held remote controller, all required sides were considered for limb-worn mode with 0mm distance. Only the rear and bottom sides may have probability to keep towards with body/lap, thus body-SAR considered for them as well, detailed description listed on Appendix D.
3. The 2.4GHz Band and 5.8GHz Band cannot transmit simultaneously.

1.2. Equipment Under Test (EUT) Information

The EUT (Equipment Under Test) is Remote Controller. It supports 2.4GHz Band and 5.8GHz Band.

1.2.1. General Information

General Information of EUT	Value
Kind of Equipment	Remote Controller
Type Designation	YMAWZOD
FCC ID	2BSYT-YMAWZOD
Operating Voltage	AC 100-240V, 50/60Hz input via AC/DC adapter` or Battery operated (DC 3.6V)
Testing Voltage	AC 120V, 60Hz or Built-in battery
Operating Temperature Range	-10°C ~ 40 °C
Radiofrequency operating mode	1) 2.4GHz Band: operating within 2400-2483.5MHz 2) 5.8GHz Band: operating within 5725-5850MHz
Technical Specification of 2.4GHz Band	
Operating Frequency	2407.48-2463.48MHz for 1.4MHz Bandwidth 2411.48-2459.48MHz for 3MHz Bandwidth 2414.48-2459.48MHz for 5MHz Bandwidth 2408.48-2466.48MHz for 10MHz Bandwidth 2414.48-2460.48MHz for 20MHz Bandwidth 2424.48-2450.48MHz for 40MHz Bandwidth
Type of Modulation	OFDM
Channel Number	29 channels for 1.4MHz Bandwidth 17 channels for 3MHz Bandwidth 10 channels for 5MHz Bandwidth 59 channels for 10MHz Bandwidth 47 channels for 20MHz Bandwidth 27 channels for 40MHz Bandwidth
Antenna Type	Integral Antennas
Antenna Number	1Tx1Rx for SISO mode (ANT1 or ANT2) 2Tx2Rx for MIMO mode (ANT1+ANT2, completely uncorrelated signals)
Antenna Gain	2.9 dBi for ANT1/2(Provided by the Client)
The type of wideband data transmission equipment:	DTS
Technical Specification of 5.8GHz band	
Operating Frequency	5732.48-5840.48MHz for 1.4MHz Bandwidth 5733.48-5838.48MHz for 3MHz Bandwidth 5742.48-5832.48MHz for 5MHz Bandwidth 5735.48-5830.48MHz for 10MHz Bandwidth 5740.48-5825.48MHz for 20MHz Bandwidth 5750.48-5815.48MHz for 40MHz Bandwidth
Type of Modulation	OFDM
Channel Number	55 channels for 1.4MHz Bandwidth 36 channels for 3MHz Bandwidth 19 channels for 5MHz Bandwidth 96 channels for 10MHz Bandwidth 86 channels for 20MHz Bandwidth 66 channels for 40MHz Bandwidth

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Antenna Type	Integral Antenna
Antenna Number	1Tx1Rx for SISO mode (ANT1 or ANT2) 2Tx2Rx for MIMO mode (ANT1+ANT2, Completely uncorrelated signals)
Antenna Gain	3.9 dBi for ANT1/2(Provided by the Client)
The type of wideband data transmission equipment	NII

The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

2. Test Sites

2.1. Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

A2LA Cert. No.: 5162.01

FCC Registration No.: 694916

IC Registration No.: 25069

2.2. Ambient Condition

Ambient Temperature	22.4°C – 23.1°C
Relative Humidity	42% - 50%

2.3. List of Test and Measurement Instruments

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D2450V2	1014	Jun. 06, 2024	3 years
System Validation Dipole	SPEAG	D5GHzV2	1280	Jun. 06, 2024	3 years
Dosimetric E-Field Probe	SPEAG	EX3DV4	7738	Sep. 11, 2025	1 year
Data Acquisition Electronics	SPEAG	DAE4	1725	Jul. 30, 2025	1 year
Signal Analyzer	R&S	FSV 7	103665	Sep. 23, 2025	1 year
Vector Network Analyzer	R&S	ZNB 8	107040	Sep. 23, 2025	1 year
Dielectric assessment Kit	SPEAG	DAK-3.5	1269	Oct. 09, 2024	3 year
Signal Generator	R&S	SMB 100A	180840	Sep. 23, 2025	1 year
EPM Series Power Meter	Keysight	N1914A	MY58240005	Oct. 27, 2025	1 year
Power Sensor	Keysight	N8481H	MY58250002	Oct. 27, 2025	1 year
Power Sensor	Keysight	N8481H	MY58250006	Oct. 27, 2025	1 year
DC Power Supply	Topward	3303D	809332	Oct. 27, 2025	1 year
Coaxial Directional Coupler	Keysight	773D	MY52180552	Oct. 27, 2025	1 year
Coaxial Directional Coupler	shhuaxiang	DTO-0.4/3.9-10	18052101	Oct. 27, 2025	1 year
Coaxial attenuator	Keysight	8491A	MY52463219	Oct. 27, 2025	1 year
Coaxial attenuator	Keysight	8491A	MY52463210	Oct. 27, 2025	1 year
Coaxial attenuator	Keysight	8491A	MY52463222	Oct. 27, 2025	1 year
Digital Thermometer	LKM	DTM3000	3116	Oct. 27, 2025	1 year
Power Amplifier Mini circuit	mini-circuits	ZHL-42W	SN002101809	N/A	N/A
Power Amplifier Mini circuit	mini-circuits	ZVE-8G	SN070501814	N/A	N/A
PHANTOM	SPEAG	ELI V8.0	2094	N/A	N/A
PHANTOM	SPEAG	SAM-Twin V8.0	1961	N/A	N/A

3. Measurement Uncertainty

Source of Uncertainty	Tolerance (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)	Vi Veff
Measurement System Errors								
Probe Calibration	±11.0%	Normal (k=2)	2	1	1	± 5.5 %	± 5.5 %	∞
Probe Calibration Drift	±1.7%	Rectangular	√3	1	1	±1.0%	±1.0%	∞
Probe Linearity	±4.7%	Rectangular	√3	1	1	±2.7%	±2.7%	∞
Broadband Signal	±3.0%	Rectangular	√3	1	1	±1.7%	±1.7%	∞
Probe Isotropy	±7.6%	Rectangular	√3	1	1	±4.4%	±4.4%	∞
Other Probe + Electronic	±0.15%	Normal	1	1	1	±0.15%	±0.15%	∞
RF Ambient	±1.8%	Normal	1	1	1	±1.8%	±1.8%	∞
Probe Positioning	±0.006mm	Normal	1	0.14	0.14	±0.10%	±0.10%	∞
Data Processing	±1.2%	Normal	1	1	1	±1.2%	±1.2%	∞
Phantom and Device Errors								
Conductivity (meas.) ^{DAK}	±2.5%	Normal	1	0.78	0.71	±2.0%	±1.8%	100
Conductivity (temp.) ^{BB}	±3.3%	Rectangular	√3	0.78	0.71	±1.5%	±1.4%	∞
Phantom Permittivity	±14.0%	Rectangular	√3	0	0	±0%	±0%	∞
Distance DUT – TSL	±2.0%	Normal	1	2	2	±4.0%	±4.0%	∞
Device Positioning	±2.4%/±2.8%	Normal	1	1	1	±2.8%	±2.8%	30
Device Holder	±3.4%/±3.5%	Normal	1	1	1	±3.5%	±3.5%	30
DUT Modulation ^m	±2.4%	Rectangular	√3	1	1	±1.4%	±1.4%	∞
Time-average SAR	±1.7%	Rectangular	√3	1	1	±1.0%	±1.0%	∞
DUT drift	±2.5%	Normal	1	1	1	±2.5%	±2.5%	30
Val Antenna Unc. ^{val}	±0.0%	Normal	1	1	1	±0%	±0%	
Unc. Input Power ^{val}	±0.0%	Normal	1	1	1	±0%	±0%	
Correction to the SAR results								
C(ε,σ)	±1.9%	Normal	1	1	0.84	±1.9%	±1.6%	
SAR scaling ^p	±0.0%	Rectangular	√3	1	1	±0%	±0%	
Combined Standard Uncertainty (K = 1)						±12.54%	±12.44%	
Expanded Uncertainty (K = 2)						±25.1%	±24.9%	

Uncertainty budget for frequency range 300 MHz to 3 GHz

Source of Uncertainty	Tolerance (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)	Vi Veff
Measurement System Errors								
Probe Calibration	±13.1%	Normal (k=2)	2	1	1	± 6.65 %	± 6.65 %	∞
Probe Calibration Drift	±1.7%	Rectangular	√3	1	1	±1.0%	±1.0%	∞
Probe Linearity	±4.7%	Rectangular	√3	1	1	±2.7%	±2.7%	∞
Broadband Signal	±2.6%	Rectangular	√3	1	1	±1.5%	±1.5%	∞
Probe Isotropy	±7.6%	Rectangular	√3	1	1	±4.4%	±4.4%	∞
Other Probe + Electronic	±0.15%	Normal	1	1	1	±0.15%	±0.15%	∞
RF Ambient	±1.8%	Normal	1	1	1	±1.8%	±1.8%	∞
Probe Positioning	±0.005mm	Normal	1	0.29	0.29	±0.15%	±0.15%	∞
Data Processing	±2.3%	Normal	1	1	1	±2.3%	±2.3%	∞
Phantom and Device Errors								
Conductivity (meas.) ^{DAK}	±2.5%	Normal	1	0.78	0.71	±2.0%	±1.8%	60
Conductivity (temp.) ^{BB}	±3.3%	Rectangular	√3	0.78	0.71	±1.5%	±1.4%	∞
Phantom Permittivity	±14.0%	Rectangular	√3	0.25	0.25	±2%	±2%	∞
Distance DUT – TSL	±2.0%	Normal	1	2	2	±4.0%	±4.0%	∞
Device Positioning	±2.4%/±2.8%	Normal	1	1	1	±2.8%	±2.8%	30
Device Holder	±3.4%/±3.5%	Normal	1	1	1	±3.5%	±3.5%	30
DUT Modulation ^m	±2.4%	Rectangular	√3	1	1	±1.4%	±1.4%	∞
Time-average SAR	±1.7%	Rectangular	√3	1	1	±1.0%	±1.0%	∞
DUT drift	±2.5%	Normal	1	1	1	±2.5%	±2.5%	30
Val Antenna Unc. ^{val}	±0.0%	Normal	1	1	1	±0%	±0%	
Unc. Input Power ^{val}	±0.0%	Normal	1	1	1	±0%	±0%	
Correction to the SAR results								
Deviation to Target	±1.9%	Normal	1	1	0.84	±1.9%	±1.6%	
SAR scaling ^p	±0.0%	Rectangular	√3	1	1	±0%	±0%	
Combined Standard Uncertainty (K = 1)						±12.8%	±12.7%	
Expanded Uncertainty (K = 2)						±25.6%	±25.4%	

Uncertainty budget for frequency range 3 GHz to 6 GHz

4. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE STD 1528- 2013, the following FCC Published RF exposure KDB procedures & manufacturer KDB inquiries:

- KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- KDB 865664 D02 RF Exposure Reporting v01r02
- KDB 447498 D04 Interim General RF Exposure Guidance v01

In addition to the above, the following information was used:

- [TCB workshop](#) April, 2019; Page 19, Tissue Simulating Liquids(TSL)

5. SAR Measurement System

5.1. Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

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

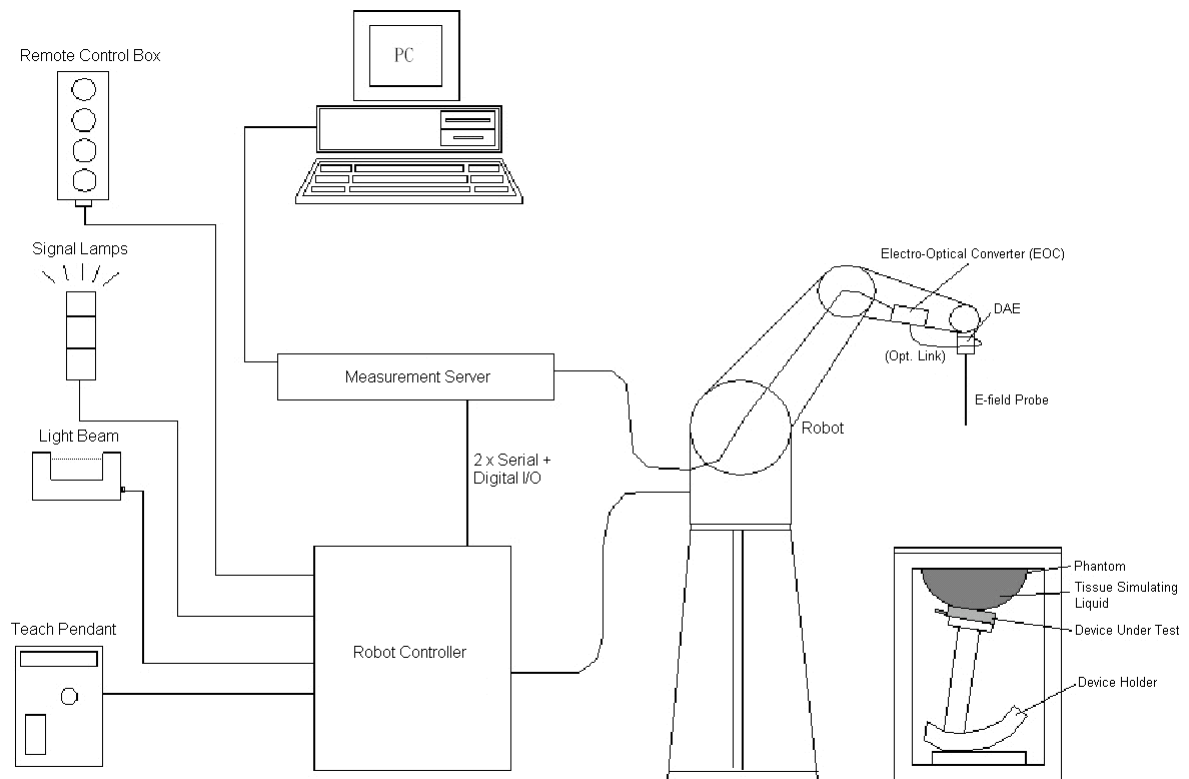
SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

5.2. SPEAG DASY System

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC.

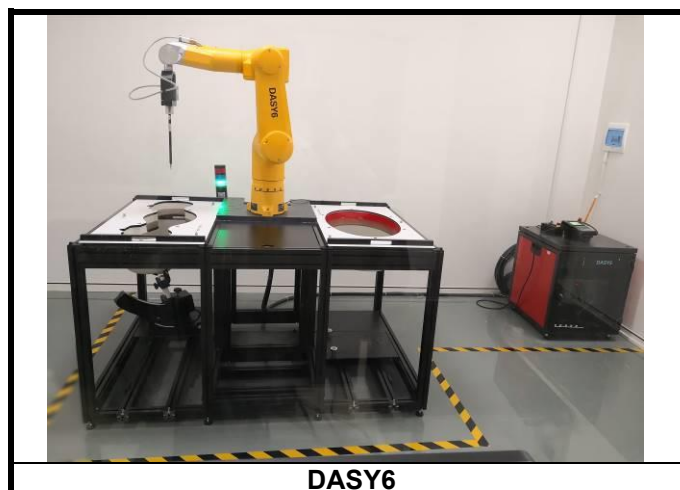


DASY System Setup

5.2.1. Robot

The DASY system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)



DASY6

5.2.2. Probes

The SAR measurement is conducted with the dosimetric probe. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

Model	EX3DV4
Construction	Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).
Frequency	4 MHz – 10 GHz Linearity: ± 0.2 dB (30 MHz – 10 GHz)
Directivity	± 0.1 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically <1 μ W/g)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm



5.2.3. Data Acquisition Electronics (DAE)

Model	DAE4
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)
Input Offset Voltage	< 5 μ V (with auto zero)
Input Bias Current	< 50 fA
Dimensions	60 x 60 x 68 mm



5.2.4. Phantoms

Model	Twin SAM	
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEC/IEEE 62209-1528. It enables the dosimetric evaluation of left and right hand phone usage as well as body-mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	approx. 25 liters	

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 10 GHz. ELI is fully compatible with the IEC/IEEE 62209-1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all of SPEAG's dosimetric probes and dipoles.	
Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	

5.2.5. Device Holder

Model	Mounting Device	
Construction	In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat).	
Material	POM	

Model	Laptop Extensions Kit	
Construction	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-1528 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner.	
Material	POM, Acrylic glass, Foam	

5.2.6. System Validation Dipoles

Model	D-Serial	
Construction	Symmetrical dipole with 1/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions.	
Frequency	750 MHz to 5800 MHz	
Return Loss	> 20 dB	
Power Capability	> 100 W ($f < 1\text{GHz}$), > 40 W ($f > 1\text{GHz}$)	

5.2.7. Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed.



Photo of Liquid Height for Head Position

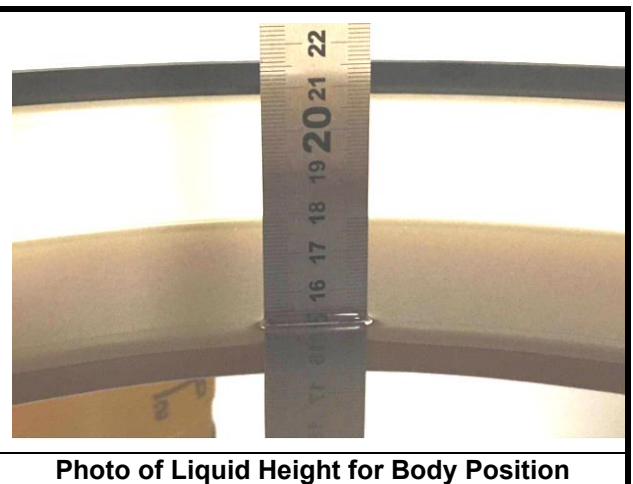


Photo of Liquid Height for Body Position

The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using a dielectric assessment kit and a network analyzer.

Targets of Tissue Simulating Liquid

Frequency (MHz)	Target Permittivity	Range of $\pm 5\%$	Target Conductivity	Range of $\pm 5\%$
For Head				
750	41.9	39.8 ~ 44.0	0.89	0.85 ~ 0.93
835	41.5	39.4 ~ 43.6	0.90	0.86 ~ 0.95
900	41.5	39.4 ~ 43.6	0.97	0.92 ~ 1.02
1450	40.5	38.5 ~ 42.5	1.20	1.14 ~ 1.26
1640	40.3	38.3 ~ 42.3	1.29	1.23 ~ 1.35
1750	40.1	38.1 ~ 42.1	1.37	1.30 ~ 1.44
1800	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
1900	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2000	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2300	39.5	37.5 ~ 41.5	1.67	1.59 ~ 1.75
2450	39.2	37.2 ~ 41.2	1.80	1.71 ~ 1.89
2600	39.0	37.1 ~ 41.0	1.96	1.86 ~ 2.06
3500	37.9	36.0 ~ 39.8	2.91	2.76 ~ 3.06
5200	36.0	34.2 ~ 37.8	4.66	4.43 ~ 4.89
5300	35.9	34.1 ~ 37.7	4.76	4.52 ~ 5.00
5500	35.6	33.8 ~ 37.4	4.96	4.71 ~ 5.21
5600	35.5	33.7 ~ 37.3	5.07	4.82 ~ 5.32
5800	35.3	33.5 ~ 37.1	5.27	5.01 ~ 5.53

The following table gives the recipes for tissue simulating liquids.

Recipes of Tissue Simulating Liquid

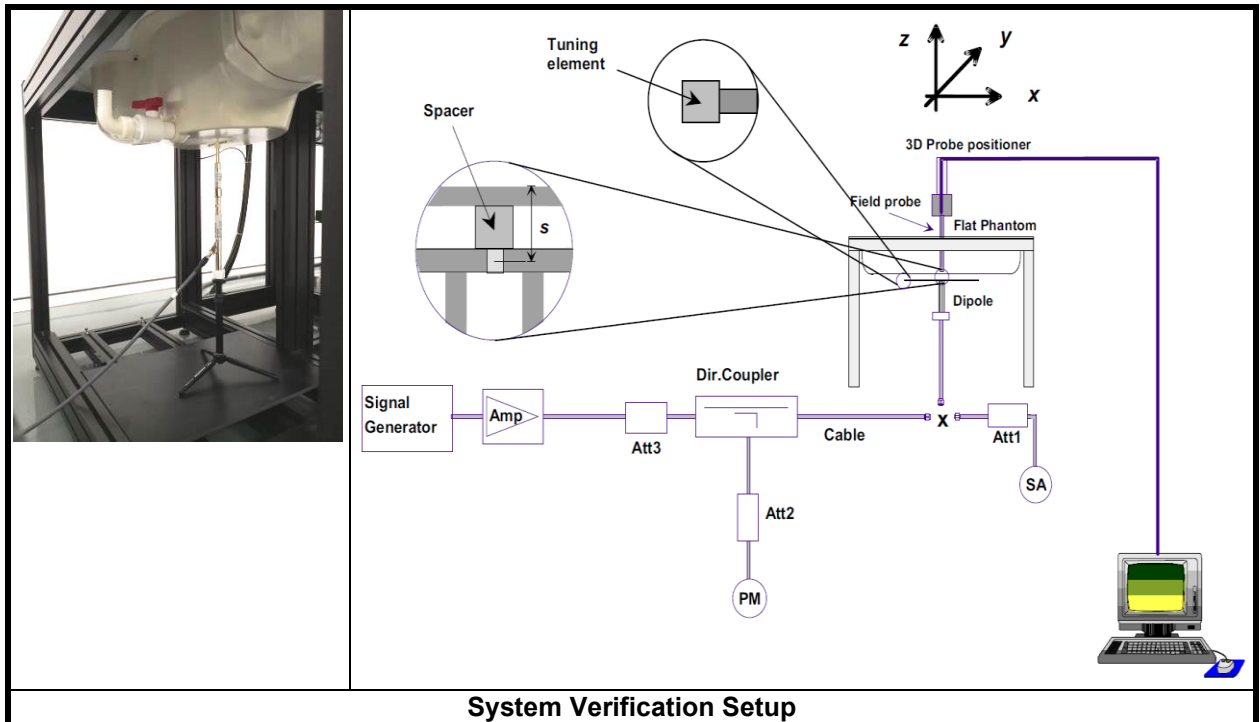
Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
H750	0.2	-	0.2	1.5	56.0	-	42.1	-
H835	0.2	-	0.2	1.5	57.0	-	41.1	-
H900	0.2	-	0.2	1.4	58.0	-	40.2	-
H1450	-	43.3	-	0.6	-	-	56.1	-
H1640	-	45.8	-	0.5	-	-	53.7	-
H1750	-	47.0	-	0.4	-	-	52.6	-
H1800	-	44.5	-	0.3	-	-	55.2	-
H1900	-	44.5	-	0.2	-	-	55.3	-
H2000	-	44.5	-	0.1	-	-	55.4	-
H2300	-	44.9	-	0.1	-	-	55.0	-
H2450	-	45.0	-	0.1	-	-	54.9	-
H2600	-	45.1	-	0.1	-	-	54.8	-
H3500	-	8.0	-	0.2	-	20.0	71.8	-
H5G	-	-	-	-	-	17.2	65.5	17.3

Simulating Head Liquid (HBBL600-6000MHz), Manufactured by SPEAG:

Water (% by weight)	Esters, Emulsifiers, Inhibitors (% by weight)	Sodium salt (% by weight)
50 - 65%	10 - 30%	8 - 25%

5.2.8.SAR System Verification

The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.



The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The spectrum analyzer measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (250 mW is used for 700 MHz to 2 GHz, 100 mW is used for 2 GHz to 6 GHz) at the dipole connector and the power meter is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

6. SAR Measurement Procedure

According to the SAR test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

The SAR measurement procedures for each of test conditions are as follows:

- (a) Make EUT to transmit maximum output power
- (b) Measure conducted output power through RF cable
- (c) Place the EUT in the specific position of phantom
- (d) Perform SAR testing steps on the DASY system
- (e) Record the SAR value

6.1. Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. According to KDB 865664 D01, the resolution for Area and Zoom scan is specified in the table below.

Items	<= 2 GHz	2-3 GHz	3-4 GHz	4-5 GHz	5-6 GHz
Area Scan ($\Delta x, \Delta y$)	<= 15 mm	<= 12 mm	<= 12 mm	<= 10 mm	<= 10 mm
Zoom Scan ($\Delta x, \Delta y$)	<= 8 mm	<= 5 mm	<= 5 mm	<= 4 mm	<= 4 mm
Zoom Scan (Δz)	<= 5 mm	<= 5 mm	<= 4 mm	<= 3 mm	<= 2 mm
Zoom Scan Volume	>= 30 mm	>= 30 mm	>= 28 mm	>= 25 mm	>= 22 mm

Note:

When zoom scan is required and report SAR is <= 1.4 W/kg, the zoom scan resolution of $\Delta x / \Delta y$ (2-3GHz: <= 8 mm, 3-4GHz: <= 7 mm, 4-6GHz: <= 5 mm) may be applied.

6.2. Volume Scan Procedure

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

6.3. Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

6.4. Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

6.5. SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.

7. SAR Measurement Evaluation

7.1. EUT Configuration and Setting

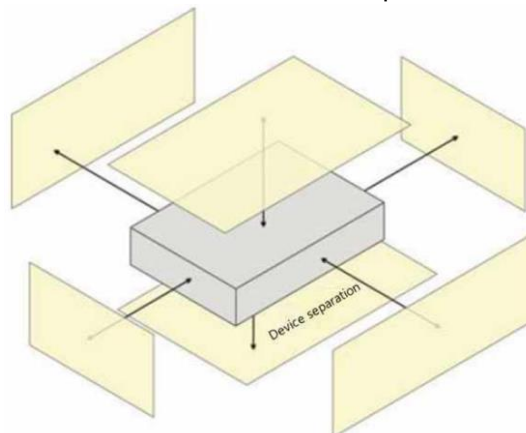
<Considerations Related to 2.4/5.8G Setup and Testing>

This device has installed 2.4/5.8G engineering testing software which can provide continuous transmitting RF signal. During 2.4/5.8G SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, 100% duty cycle and maximum output power.

7.2. EUT Testing Position

7.2.1. Body Exposure Conditions

For this device, The antenna bracket is stretchable, We evaluate the normal state and longest state of the antenna stand stretch, SAR evaluation is required on all sides and edges without Top Side with a transmitting antenna within 25 mm from that surface or edge, at 0 mm separation from a flat phantom, Next to the Body exposure requires 1-g SAR, add worst with phone state, for the data modes, wireless technologies and frequency bands supported by the device to determine SAR compliance.



The SAR testing positions are based on the antenna location shown on Appendix D.

7.2.2. Extremity Exposure Conditions

For this device, The antenna bracket is stretchable, We evaluate the normal state and longest state of the antenna stand stretch, SAR evaluation is required on Top Side, Left Side and Right Side at 0 mm separation from a flat phantom, Next to the Hand exposure requires 10-g SAR, add worst with phone state, for the data modes, wireless technologies and frequency bands supported by the device to determine SAR compliance.

7.3. Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

Test Date	Tissue Type	Frequency (MHz)	Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Target Conductivity (σ)	Target Permittivity (ϵ_r)	Conductivity Deviation (%)	Permittivity Deviation (%)
Dec. 18, 2025	H2450	2450	1.845	39.406	1.80	39.20	2.50	0.53
Dec. 19, 2025	H5G	5800	5.162	36.363	5.27	35.30	-2.05	3.01

Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within $\pm 5\%$ of the target values. Liquid temperature during the SAR testing must be within $\pm 2^\circ\text{C}$.

7.4. System Validation

The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.

Test Date	Probe S/N	Calibration Point		Measured Conductivity (σ)	Measured Permittivity (ϵ_r)	Validation for CW			Validation for Modulation		
						Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR
Dec. 18, 2025	7738	Head	2450	1.845	39.406	Pass	Pass	Pass	OFDM	N/A	Pass
Dec. 19, 2025	7738	Head	5800	5.162	36.363	Pass	Pass	Pass	OFDM	N/A	Pass

7.5. System Verification

The measuring result for system verification is tabulated as below.

Test Date	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Dec. 18, 2025	2450	53.40	5.19	51.90	-2.81	1014	7738	1725
Dec. 19, 2025	5800	80.70	8.10	81.00	0.37	1280	7738	1725

Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.

8. SAR Measurement Evaluation

8.1. Conducted Power

All Rate have been tested, the Worst average power (Unit: dBm) is shown as below.

<2.4GHz_ANT 2+1>

Testcase	Frequency	POWER	Tune-Up
1.4M	2407.48	24.30	24.5
	2437.48	24.17	
	2463.48	24.37	
3M	2411.48	27.08	27.5
	2435.48	26.95	
	2459.48	26.71	
5MHz	2414.48	27.04	27.5
	2434.48	26.61	
	2459.48	26.89	
10MHz	2408.48	22.63	23.0
	2437.48	27.69	28.0
	2455.48	24.88	25.0
	2466.48	19.58	20.0
20MHz	2414.48	20.21	20.5
	2425.48	24.18	25.0
	2437.48	27.76	28.0
	2439.48	24.65	25.0
	2460.48	16.40	17.0
40MHz	2424.48	14.07	14.5
	2430.48	16.76	17.0
	2431.48	17.78	18.0
	2437.48	21.04	21.5
	2439.48	18.33	18.5
	2440.48	15.63	16.0
	2450.48	13.15	13.5

< 5.8G_ANT 2+1>

Testcase	Frequency	POWER	Tune-Up
1.4M	5732.48	27.06	27.5
	5786.48	26.67	
	5840.48	26.83	
3M	5733.48	26.97	27.5
	5784.48	26.99	
	5838.48	27.05	
5M	5742.48	26.85	27.5
	5787.48	26.90	
	5832.48	26.58	
10MHz	5735.48	27.26	28.0
	5782.48	27.59	
	5830.48	27.58	
20MHz	5740.48	27.23	27.5
	5782.48	27.10	
	5825.48	27.26	
40MHz	5750.48	22.36	23.0
	5782.48	24.58	25.0
	5815.48	21.43	22.0

8.2. SAR Testing Results

8.2.1. SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- (1) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- (2) ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- (3) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- (4) For MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

8.2.3.SAR Results for Body Exposure Condition (Separation Distance is 0 cm Gap)

Plot No.	Band	Mode	Test Position	Frequency (MHz)	State	Antenna	Normal Duty Cycle	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	2.4G	20M	Front Face	2437.5	normal	2	10.0%	28.0	27.76	1.06	-0.04	0.606	0.06
	2.4G	20M	Front Face	2437.5	Longest	2	10.0%	28.0	27.76	1.06	-0.02	0.589	0.06
	2.4G	20M	Rear Face	2437.5	normal	2	10.0%	28.0	27.76	1.06	-0.09	2.17	0.23
	2.4G	20M	Rear Face	2437.5	Longest	2	10.0%	28.0	27.76	1.06	0.04	2.12	0.22
	2.4G	20M	Front Face	2437.5	normal	1	10.0%	28.0	27.76	1.06	0.04	1.09	0.12
	2.4G	20M	Front Face	2437.5	Longest	1	10.0%	28.0	27.76	1.06	-0.05	1.01	0.11
1	2.4G	20M	Rear Face	2437.5	normal	1	10.0%	28.0	27.76	1.06	-0.04	2.92	0.31
	2.4G	20M	Rear Face	2437.5	Longest	1	10.0%	28.0	27.76	1.06	0.02	2.88	0.30
	2.4G	20M	Rear Face	2437.5	With Phone	1	10.0%	28.0	27.76	1.06	-0.09	2.91	0.31
	5.8G	10M	Front Face	5782.5	normal	2	10.0%	28.0	27.59	1.10	0.01	0.882	0.10
	5.8G	10M	Front Face	5782.5	Longest	2	10.0%	28.0	27.59	1.10	-0.05	0.875	0.10
	5.8G	10M	Rear Face	5782.5	normal	2	10.0%	28.0	27.59	1.10	-0.08	3.91	0.43
	5.8G	10M	Rear Face	5782.5	Longest	2	10.0%	28.0	27.59	1.10	-0.11	3.89	0.43
	5.8G	10M	Front Face	5782.5	normal	1	10.0%	28.0	27.59	1.10	0.05	0.934	0.10
	5.8G	10M	Front Face	5782.5	Longest	1	10.0%	28.0	27.59	1.10	0.06	0.922	0.10
2	5.8G	10M	Rear Face	5782.5	normal	1	10.0%	28.0	27.59	1.10	-0.14	3.96	0.44
	5.8G	10M	Rear Face	5782.5	Longest	1	10.0%	28.0	27.59	1.10	-0.02	3.85	0.42
	5.8G	10M	Rear Face	5782.5	With Phone	1	10.0%	28.0	27.59	1.10	0.08	3.94	0.43

Note: This device is a hand-held remote controller, all required sides were considered for limb-worn mode with 0mm distance. Only the rear and bottom sides may have probability to keep towards with body/lap, thus body-SAR considered for them as well, detailed description listed on Appendix D.

The side far away from the antenna is not required.

8.2.4.SAR Results for Extremity Exposure Condition (Separation Distance is 0 cm Gap)

Plot No.	Band	Mode	Test Position	Frequency (MHz)	State	Antenna	Normal Duty Cycle	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	2.4G	20M	Left Side	2437.5	normal	2	10.0%	28.0	27.76	1.06	-0.06	0.643	0.07
	2.4G	20M	Left Side	2437.5	Longest	2	10.0%	28.0	27.76	1.06	0.07	0.633	0.07
	2.4G	20M	Right Side	2437.5	normal	2	10.0%	28.0	27.76	1.06	0.04	5.52	0.58
	2.4G	20M	Right Side	2437.5	Longest	2	10.0%	28.0	27.76	1.06	-0.01	5.49	0.58
	2.4G	20M	Top Side	2437.5	normal	2	10.0%	28.0	27.76	1.06	-0.08	5.62	0.59
	2.4G	20M	Top Side	2437.5	Longest	2	10.0%	28.0	27.76	1.06	0.04	5.73	0.61
	2.4G	20M	Left Side	2437.5	normal	1	10.0%	28.0	27.76	1.06	0.06	6.78	0.72
	2.4G	20M	Left Side	2437.5	Longest	1	10.0%	28.0	27.76	1.06	0.02	6.62	0.70
	2.4G	20M	Right Side	2437.5	normal	1	10.0%	28.0	27.76	1.06	0.08	0.179	0.02
	2.4G	20M	Right Side	2437.5	Longest	1	10.0%	28.0	27.76	1.06	0.01	0.181	0.02
3	2.4G	20M	Top Side	2437.5	normal	1	10.0%	28.0	27.76	1.06	-0.09	9.06	0.96
	2.4G	20M	Top Side	2437.5	Longest	1	10.0%	28.0	27.76	1.06	0.02	8.83	0.93
	2.4G	20M	Top Side	2437.5	With Phone	1	10.0%	28.0	27.76	1.06	-0.06	8.94	0.94
	5.8G	10M	Left Side	5782.5	normal	2	10.0%	28.0	27.59	1.10	-0.06	0.18	0.02
	5.8G	10M	Left Side	5782.5	Longest	2	10.0%	28.0	27.59	1.10	0.05	0.184	0.02
	5.8G	10M	Right Side	5782.5	normal	2	10.0%	28.0	27.59	1.10	0.01	2.86	0.31
	5.8G	10M	Right Side	5782.5	Longest	2	10.0%	28.0	27.59	1.10	-0.08	2.92	0.32
	5.8G	10M	Top Side	5782.5	normal	2	10.0%	28.0	27.59	1.10	0.09	11.1	1.22
4	5.8G	10M	Top Side	5782.5	Longest	2	10.0%	28.0	27.59	1.10	0.01	11.2	1.23
	5.8G	10M	Left Side	5782.5	normal	1	10.0%	28.0	27.59	1.10	0.04	2.75	0.30
	5.8G	10M	Left Side	5782.5	Longest	1	10.0%	28.0	27.59	1.10	0.04	2.71	0.30
	5.8G	10M	Right Side	5782.5	normal	1	10.0%	28.0	27.59	1.10	0.02	0.138	0.02
	5.8G	10M	Right Side	5782.5	Longest	1	10.0%	28.0	27.59	1.10	0.08	0.144	0.02
	5.8G	10M	Top Side	5782.5	normal	1	10.0%	28.0	27.59	1.10	-0.05	9.16	1.01
	5.8G	10M	Top Side	5782.5	Longest	1	10.0%	28.0	27.59	1.10	0.01	8.91	0.98
	5.8G	10M	Top Side	5782.5	With Phone	2	10.0%	28.0	27.59	1.10	0.09	10.6	1.16

Note: This device is a hand-held remote controller, all required sides were considered for limb-worn mode with 0mm distance. Only the rear and bottom sides may have probability to keep towards with body/lap, thus body-SAR considered for them as well, detailed description listed on Appendix D.

As for SAR evaluations on rear and front sides, they satisfy the body-SAR limit under 0mm distance, thus needless to consider the Extremity Exposure Condition.

The side far away from the antenna is not required.

Max normal duty cycle is 10% for 2.4GHz and 5.8GHz bands.

1) 2.4GHz band

Ton (ms)	T(Total) ms	Duty cycle (%)
0.502*2	10.2	10%

2) 5.8GHz band

Ton (ms)	T(Total) ms	Duty cycle (%)
0.502*2	10.2	10%

8.2.5.MIMO Multi-band Transmission Evaluation

<SAR Summation Analysis>

MIMO SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
1	MIMO_2.4GHz Band	Body	Front Face	0.06	0.12	0.18	Σ SAR < 1.6, Not required
			Rear Face	0.23	0.31	0.54	Σ SAR < 1.6, Not required
2		Extremity	Left Side	0.07	0.72	0.79	Σ SAR < 4.0, Not required
			Right Side	0.58	0.02	0.60	Σ SAR < 4.0, Not required
			Top Side	0.61	0.96	1.57	Σ SAR < 4.0, Not required
3	MIMO_5.8GHz Band	Body	Front Face	0.10	0.10	0.20	Σ SAR < 1.6, Not required
			Rear Face	0.43	0.44	0.87	Σ SAR < 1.6, Not required
4		Extremity	Left Side	0.02	0.30	0.32	Σ SAR < 4.0, Not required
			Right Side	0.32	0.02	0.34	Σ SAR < 4.0, Not required
			Top Side	1.23	1.01	2.24	Σ SAR < 4.0, Not required

Test Engineer: Warren Xiong,

Appendixes

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

Appendix B: SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

Appendix C: Calibration Certificate for probe and Dipole

Appendix D: Photographs of EUT and setup

Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2025/12/18

System Check-D2450V2_H2450

DUT: Dipole 2450 MHz D2450V2 SN:1014

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: H2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.845$ S/m; $\epsilon_r = 39.406$; $\rho = 1000$

kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7738; ConvF(6.61, 6.74, 7.01) @ 2450 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1725; Calibrated: 2025/7/30
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=100 mW/Area Scan (71x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 8.23 W/kg

Pin=100 mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 67.60 V/m; Power Drift = -0.01 dB

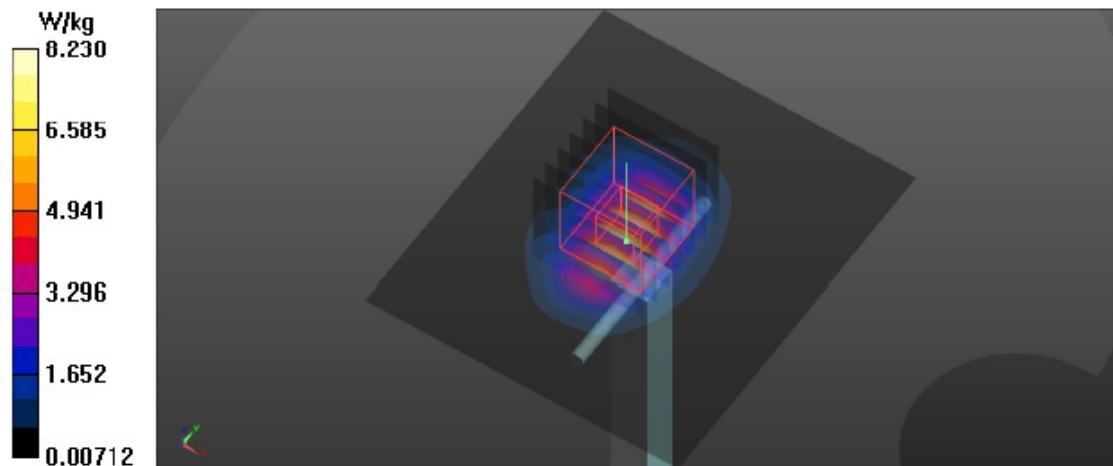
Peak SAR (extrapolated) = 9.48 W/kg

SAR(1 g) = 5.19 W/kg; SAR(10 g) = 2.46 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 8.03 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2025/12/18

System Check-D5GHz_H5250

DUT: Dipole D5GHzV2 SN:1280

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: H5G Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.568 \text{ S/m}$; $\epsilon_r = 37.459$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7738; ConvF(5.03, 5.12, 5.33) @ 5250 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1725; Calibrated: 2025/7/30
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 19.4 W/kg

Pin=100mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 74.03 V/m; Power Drift = 0.05 dB

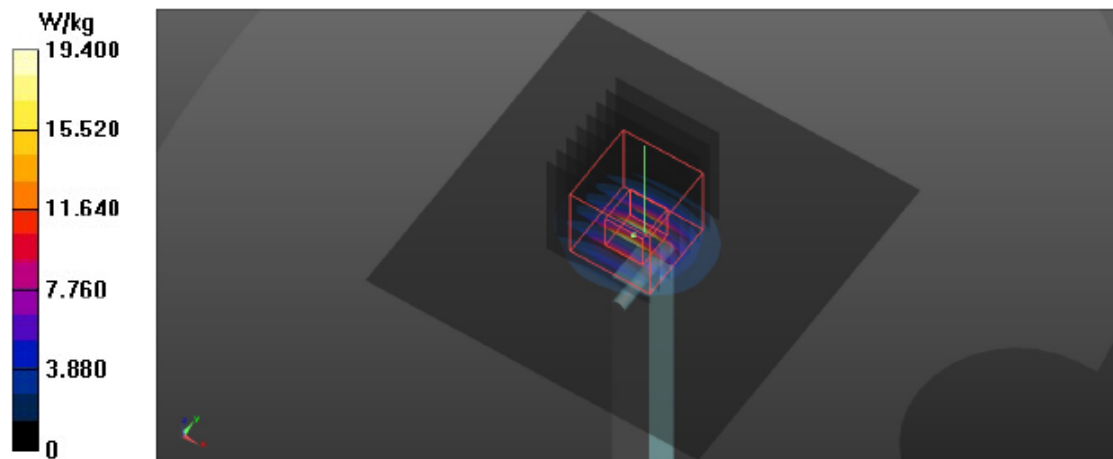
Peak SAR (extrapolated) = 35.0 W/kg

SAR(1 g) = 8.36 W/kg; SAR(10 g) = 2.35 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 64%

Maximum value of SAR (measured) = 20.2 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2025/12/19

System Check-D5GHz_H5800

DUT: Dipole D5GHzV2 SN:1280

Communication System: UID 0, CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: H5G Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.162 \text{ S/m}$; $\epsilon_r = 36.363$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Probe: EX3DV4 - SN7738; ConvF(4.79, 4.88, 5.08) @ 5800 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1725; Calibrated: 2025/7/30
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 20.2 W/kg

Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 70.26 V/m; Power Drift = 0.07 dB

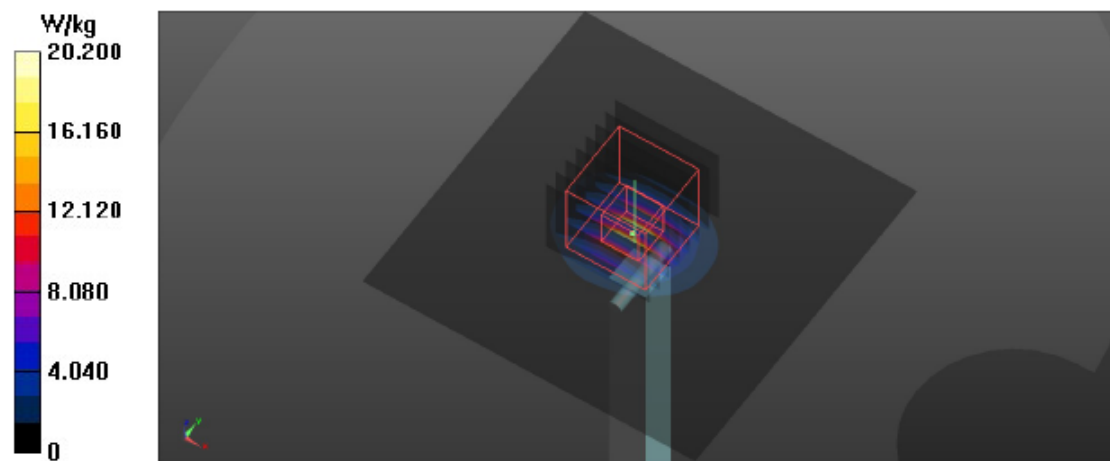
Peak SAR (extrapolated) = 39.1 W/kg

SAR(1 g) = 8.1 W/kg; SAR(10 g) = 2.26 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 59.6%

Maximum value of SAR (measured) = 20.1 W/kg



P01 2.4G_20M_Rear Face_0cm_F 2437.48_normal_Ant 1

DUT: EUT

Communication System: UID 0; Frequency: 2437.48 MHz; Duty Cycle: 1:1

Medium: H2450 Medium parameters used: $f = 2437.48 \text{ MHz}$; $\sigma = 1.816 \text{ S/m}$; $\epsilon = 37.977$; $\rho = 1000$

kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN7738; ConvF(6.61, 6.74, 7.01) @ 2437.5 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1725; Calibrated: 2025/7/30
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (81x51x1):** Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 4.91 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.166 V/m ; Power Drift = -0.04 dB

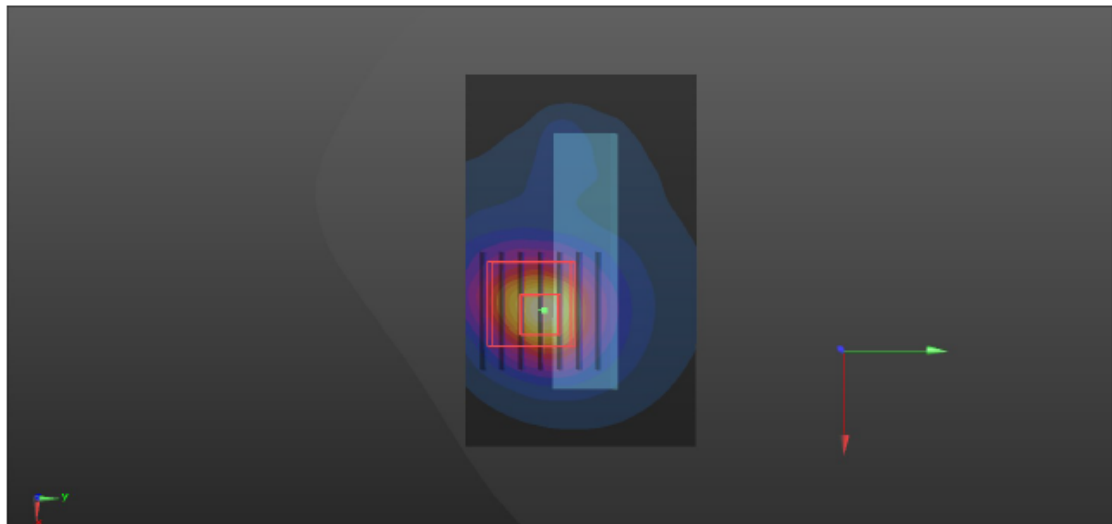
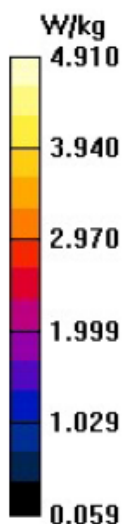
Peak SAR (extrapolated) = 9.14 W/kg

SAR(1 g) = 2.92 W/kg ; SAR(10 g) = 1.33 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 33.9%

Maximum value of SAR (measured) = 6.28 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2025/12/19

P02 5.8G_10M_Rear Face_0cm_F 5782.48_normal_Ant 1

DUT: EUT

Communication System: UID 0; Frequency: 5782.48 MHz; Duty Cycle: 1:1

Medium: H5G Medium parameters used: $f = 5782.48 \text{ MHz}$ $\sigma = 5.129 \text{ S/m}$; $\epsilon = 36.497$; $\rho = 1000$

kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN7738; ConvF(4.79, 4.88, 5.08) @ 5782.5 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1725; Calibrated: 2025/7/30
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (91x61x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 7.99 W/kg

- Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 8.121 V/m ; Power Drift = -0.14 dB

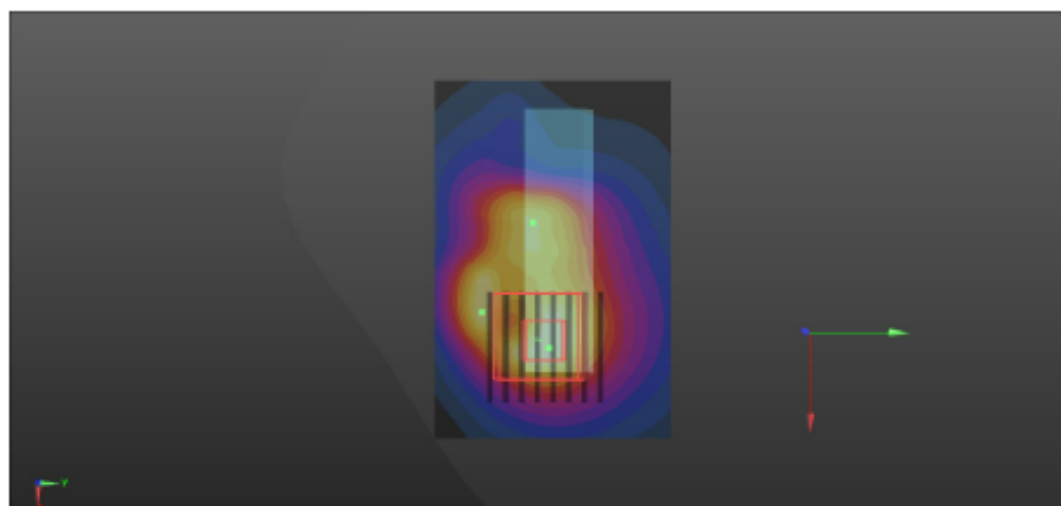
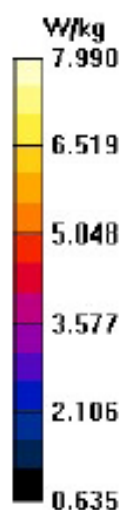
Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 3.96 W/kg ; SAR(10 g) = 1.59 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.8%

Maximum value of SAR (measured) = 8.84 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2025/12/18

P03 2.4G_20M_Top Side_0cm_F 2437.48_normal_Ant 1

DUT: EUT

Communication System: UID 0; Frequency: 2437.48 MHz; Duty Cycle: 1:1

Medium: H2450 Medium parameters used: $f = 2437.48 \text{ MHz}$; $\sigma = 1.816 \text{ S/m}$; $\epsilon = 37.977$; $\rho = 1000$

kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN7738; ConvF(6.61, 6.74, 7.01) @ 2437.5 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1725; Calibrated: 2025/7/30
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (71x101x1):** Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 59.8 W/kg

- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.79 V/m ; Power Drift = -0.09 dB

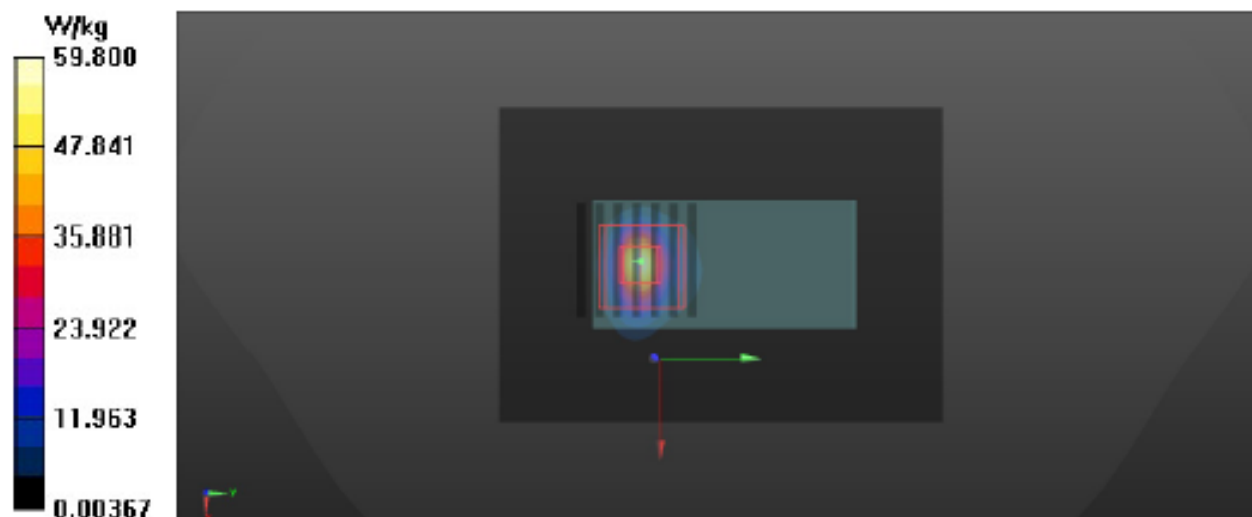
Peak SAR (extrapolated) = 61.3 W/kg

SAR(1 g) = 23.8 W/kg ; SAR(10 g) = 9.06 W/kg

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 39.7%

Maximum value of SAR (measured) = 47.2 W/kg



Test Laboratory: TÜV Rheinland (Shenzhen) Co., Ltd.

Date: 2025/12/19

P04 5.8G_10M_Top Side_0cm_F 5782.48_Longest_Ant 2

DUT: EUT

Communication System: UID 0; Frequency: 5782.48 MHz; Duty Cycle: 1:1

Medium: H5G Medium parameters used: $f = 5782.48 \text{ MHz}$; $\sigma = 5.129 \text{ S/m}$; $\epsilon = 36.497$; $\rho = 1000$

kg/m^3

DASY5 Configuration:

- Probe: EX3DV4 - SN7738; ConvF(4.79, 4.88, 5.08) @ 5782.5 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1725; Calibrated: 2025/7/30
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: 1961
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (81x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 156 W/kg

- Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 28.81 V/m; Power Drift = 0.01 dB

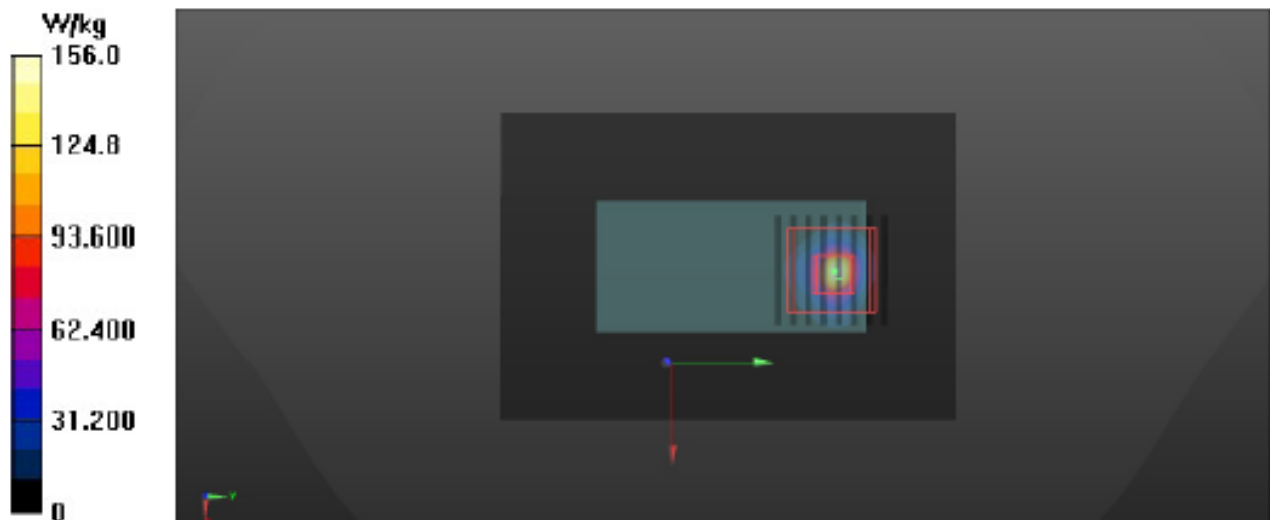
Peak SAR (extrapolated) = 344 W/kg

SAR(1 g) = 53.7 W/kg; SAR(10 g) = 11.2 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 149 W/kg



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Accreditation No.: **SCS 0108**

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Multilateral Agreement for the recognition of calibration certificates

Client **TUV**
Shenzhen

Certificate No. **D2450V2-1014_Jun24****CALIBRATION CERTIFICATE**Object **D2450V2 - SN:1014**Calibration procedure(s) **QA CAL-05.v12
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz**Calibration date: **June 06, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
Power sensor NRP-Z91	SN: 103245	26-Mar-24 (No. 217-04037)	Mar-25
Reference 20 dB Attenuator	SN: BH9394 (20k)	26-Mar-24 (No. 217-04046)	Mar-25
Type-N mismatch combination	SN: 310982 / 06327	26-Mar-24 (No. 217-04047)	Mar-25
Reference Probe EX3DV4	SN: 7349	03-Nov-23 (No. EX3-7349_Nov23)	Nov-24
DAE4	SN: 601	22-May-24 (No. DAE4-601_May24)	May-25
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Calibrated by:	Name Joanna Lleshaj	Function Laboratory Technician
Approved by:	Sven Kühn	Technical Manager

Signature



Issued: June 7, 2024

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	38.0 $\pm$ 6 %	1.88 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.7 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	53.4 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.0 W/kg $\pm$ 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$54.1 \, \Omega + 0.5 \, j\Omega$
Return Loss	- 28.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.147 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 06.06.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:1014

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ S/m; $\epsilon_r = 38.0$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.96, 7.96, 7.96) @ 2450 MHz; Calibrated: 03.11.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 22.05.2024
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 117.3 V/m; Power Drift = 0.09 dB

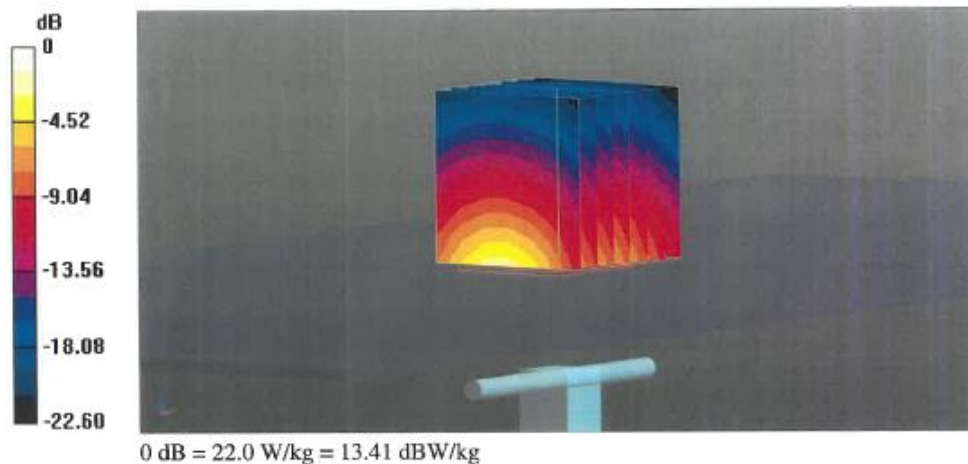
Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.35 W/kg

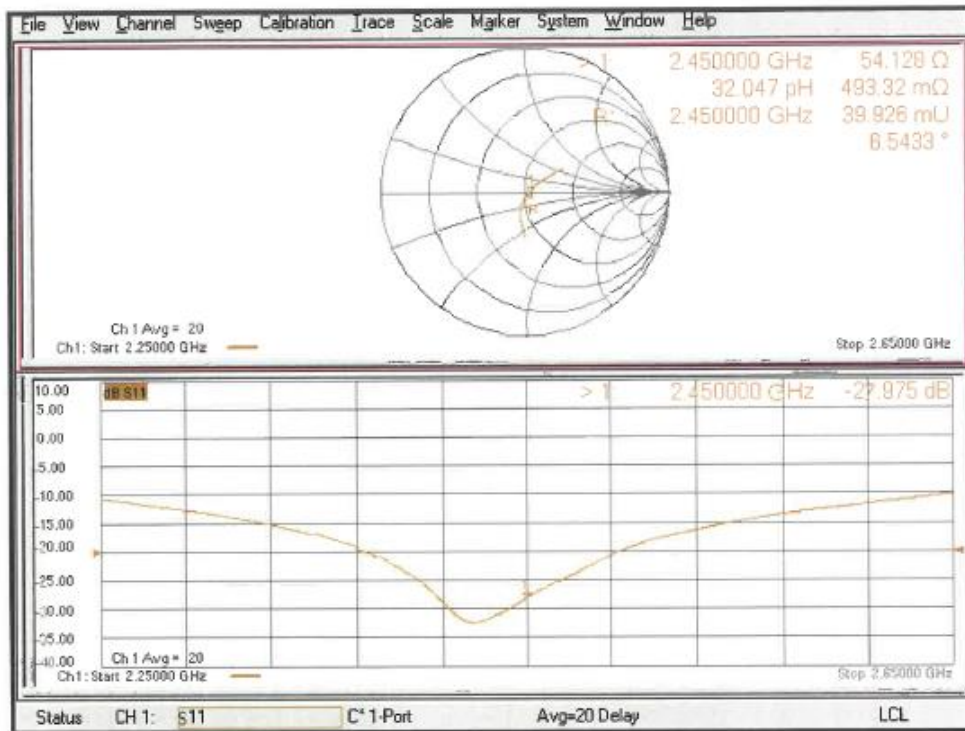
Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 50.4%

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



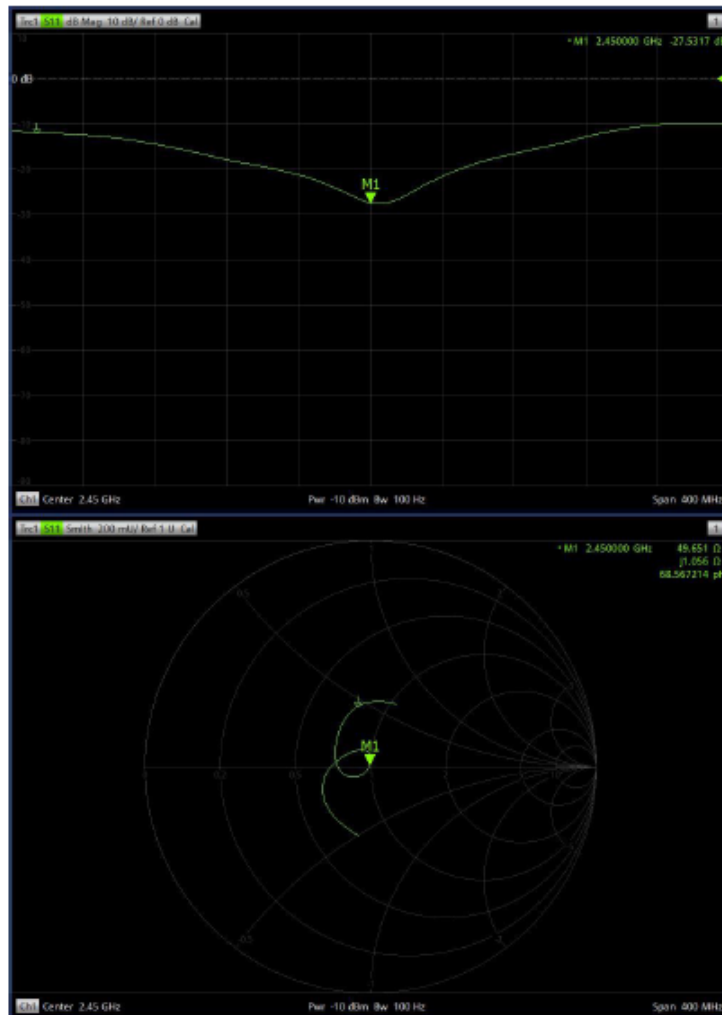
Impedance Measurement Plot for Head TSL



Justification for Extended SAR Dipole Calibrations

Dipole	Date of Measurement	Return Loss (dB)	Delta (%)	Impedance (ohm)	Delta (ohm)
Head 2450MHz	Jun 06, 2024	-28.00	-1.68	54.10	-4.45
	Jun 09, 2025	-27.53		49.65	

Note: The return loss is <-20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification results meet the requirement of extended calibration.



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Accreditation No.: **SCS 0108**

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Client **TUV**
Shenzhen

Certificate No. **D5GHzV2-1280_Jun24****CALIBRATION CERTIFICATE**

Object **D5GHzV2 - SN:1280**

Calibration procedure(s) **QA CAL-22.v7**
Calibration Procedure for SAR Validation Sources between 3-10 GHz

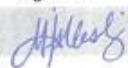
Calibration date: **June 06, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
Power sensor NRP-Z91	SN: 103245	26-Mar-24 (No. 217-04037)	Mar-25
Reference 20 dB Attenuator	SN: BH9394 (20k)	26-Mar-24 (No. 217-04046)	Mar-25
Type-N mismatch combination	SN: 310982 / 06327	26-Mar-24 (No. 217-04047)	Mar-25
Reference Probe EX3DV4	SN: 3503	07-Mar-24 (No. EX3-3503_Mar24)	Mar-25
DAE4	SN: 601	22-May-24 (No. DAE4-601_May24)	May-25
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by:	Joanna Lleshaj	Laboratory Technician	
Approved by:	Sven Kühn	Technical Manager	

Issued: June 6, 2024

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Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.0 ± 6 %	4.57 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.93 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.27 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.7 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.3 ± 6 %	4.94 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	83.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.7 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.1 ± 6 %	5.15 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.09 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.8 W/kg ± 19.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	48.2 Ω - 2.7 j Ω
Return Loss	- 29.5 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	50.6 Ω + 1.5 j Ω
Return Loss	- 35.7 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	53.2 Ω + 4.5 j Ω
Return Loss	- 25.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.188 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 06.06.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1280

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.57$ S/m; $\epsilon_r = 36$; $\rho = 1000$ kg/m³,
Medium parameters used: $f = 5600$ MHz; $\sigma = 4.94$ S/m; $\epsilon_r = 35.3$; $\rho = 1000$ kg/m³,
Medium parameters used: $f = 5800$ MHz; $\sigma = 5.15$ S/m; $\epsilon_r = 35.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.39, 5.39, 5.39) @ 5250 MHz, ConvF(5, 5, 5) @ 5600 MHz, ConvF(4.86, 4.86, 4.86) @ 5800 MHz; Calibrated: 07.03.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 22.05.2024
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 76.44 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 26.9 W/kg

SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 6.9 mm

Ratio of SAR at M2 to SAR at M1 = 70.5%

Maximum value of SAR (measured) = 17.6 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 76.25 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 30.8 W/kg

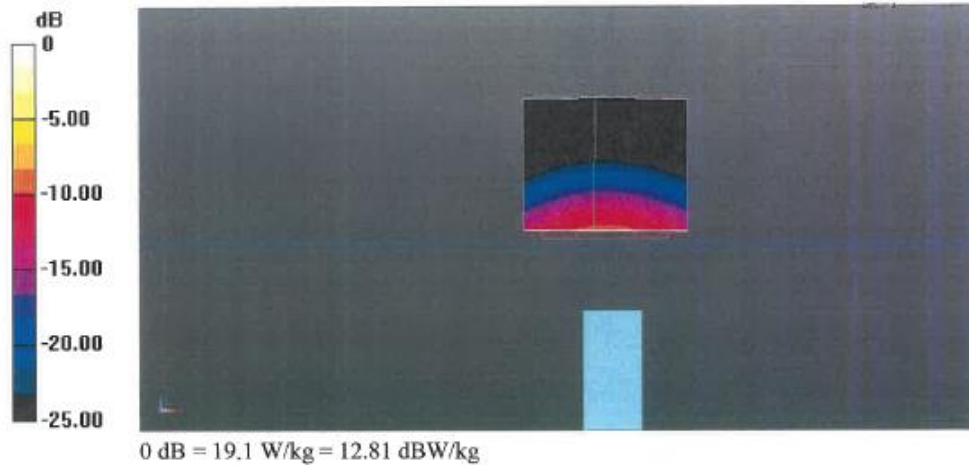
SAR(1 g) = 8.35 W/kg; SAR(10 g) = 2.38 W/kg

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

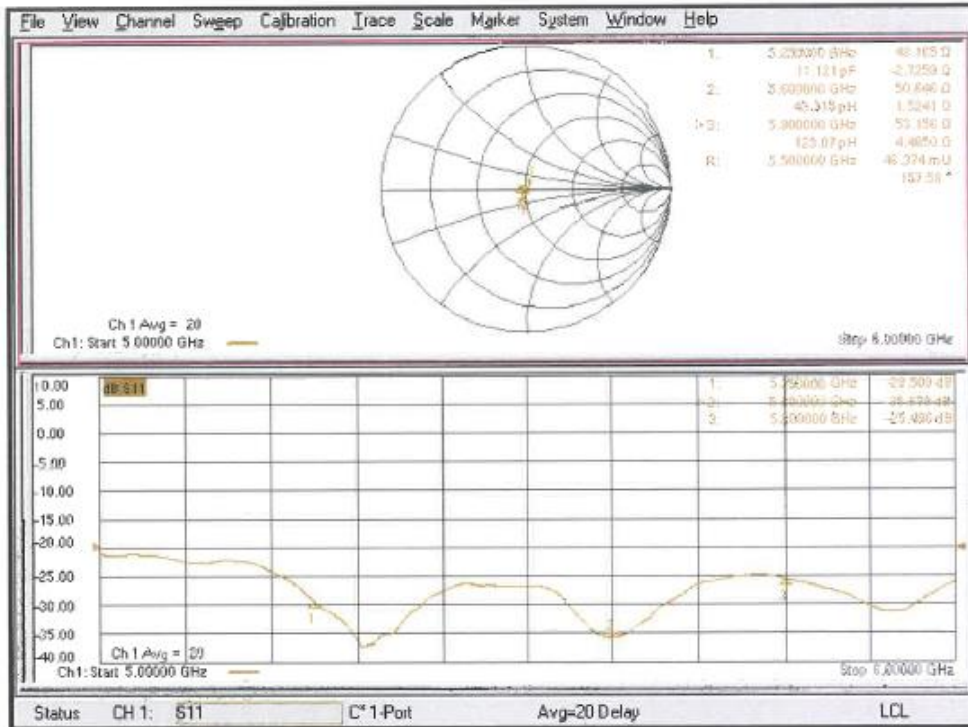
Ratio of SAR at M2 to SAR at M1 = 67.7%

Maximum value of SAR (measured) = 19.1 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 74.03 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 31.7 W/kg
SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.29 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 65.8%
Maximum value of SAR (measured) = 18.9 W/kg



Impedance Measurement Plot for Head TSL



Justification for Extended SAR Dipole Calibrations

Dipole	Date of Measurement	Return Loss (dB)	Delta (%)	Impedance (ohm)	Delta (ohm)
Head 5250MHz	Jun 06, 2024	-29.50	-5.22	48.20	-0.59
	Jun 09, 2025	-27.96		47.61	
Head 5600MHz	Jun 06, 2024	-35.70	-8.68	50.60	-2.04
	Jun 09, 2025	-32.60		48.56	
Head 5800MHz	Jun 06, 2024	-25.50	6.78	53.20	-3.66
	Jun 09, 2025	-27.23		49.54	

Note: The return loss is <-20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification results meet the requirement of extended calibration.



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Accreditation No.: SCS 0108

Client
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Shenzhen

Certificate No. EX-7738_Sep25

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:7738

Calibration procedure(s) QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,
QA CAL-25.v8
Calibration procedure for dosimetric E-field probes

Calibration date September 11, 2025

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.
All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)°C and humidity < 70%.
Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Calibration Date (Certificate No.)	Sched. Cal.
Power Sensor R&S NRP-33T	SN: 100987	30-Apr-25 (No. 1020-300791789)	Apr-26
N-type mismatch combination	SN: L1119	26-Mar-25 (No. 217-04292)	Mar-26
OCP DAK-12	SN: 1016	24-Sept-24 (No. OCP-DAK12-1016_Sep24)	Sep-25
OCP DAK-3.5	SN: 1249	23-Sept-24 (No. OCP-DAK3.5-1249_Sep24)	Sep-25
Reference Probe EX3DV4	SN: 7349	10-Jan-25 (No. EX3-7349_Jan25)	Jan-26
DAE4	SN: 1301	07-Nov-24 (No. DAE4-1301_Nov24)	Nov-25

Secondary Standards	ID	Check Date (in house)	Sched. Check
ACAP 2020 Setup 1	SN: L1404	30-Sept-24 (No. Report_ACAP2020E-Cave_20240930s)	Sep-25
OCP DAK-12	SN: 1029	27-Feb-25 (No. OCP-DAK12-1029_Feb25)	Feb-26
OCP DAK-3.5	SN: 1336	09-Dec-24 (No. OCP-DAK3.5-1336_Dec24)	Dec-25

	Name	Function	Signature
Calibrated by	Joanna Lleshaj	Laboratory Technician	
Approved by	Sven Köhn	Technical Manager	

Issued: September 12, 2025

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Accreditation No.: SCS 0108

Glossary

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization ψ	ψ rotation around probe axis
Polarization θ	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\theta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

EX3DV4 - SN:7738

September 11, 2025

Parameters of Probe: EX3DV4 - SN:7738

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm ($\mu V/(V/m)^2$) ^A	0.51	0.56	0.57	±10.1%
DCP (mV) ^B	105.7	104.0	105.2	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu V}$	C	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0	Continuous Wave	X	0.00	0.00	1.00	0.00	132.0	±2.4%	±4.7%
		Y	0.00	0.00	1.00		134.1		
		Z	0.00	0.00	1.00		139.8		
10352	Pulse (D=10%, T=5 ms)	X	0.25	60.35	15.58	10.00	23.0	±2.2%	±9.6%
		Y	0.24	60.12	15.18		24.0		
		Z	0.25	61.80	15.64		24.0		
10353	Pulse (D=20%, T=5 ms)	X	0.22	63.36	15.68	6.99	46.0	±1.7%	±9.6%
		Y	0.22	63.13	15.23		47.0		
		Z	0.23	64.81	15.68		47.0		
10354	Pulse (D=40%, T=5 ms)	X	0.19	66.37	15.78	3.98	92.0	±1.6%	±9.6%
		Y	0.20	66.14	15.28		94.0		
		Z	0.21	67.82	15.71		94.0		
10355	Pulse (D=60%, T=5 ms)	X	0.17	68.13	15.86	2.22	137.0	±1.8%	±9.6%
		Y	0.19	67.91	15.31		141.0		
		Z	0.21	69.58	15.73		141.0		
10387	Random (BW=1 MHz, MOD=QPSK)	X	0.01	65.25	18.07	0.59	104.0	±1.8%	±9.6%
		Y	0.00	65.03	16.83		107.0		
		Z	0.01	66.70	16.78		107.0		
10388	Random (BW=10 MHz, MOD=QPSK)	X	0.44	65.14	14.94	0.00	110.0	±3.0%	±9.6%
		Y	0.53	64.91	14.46		114.0		
		Z	0.76	66.58	14.78		114.0		
10396	Random (BW=100 kHz, MOD=64QAM)	X	0.12	64.08	18.99	1.36	83.0	±1.6%	±9.6%
		Y	0.00	63.85	18.04		86.0		
		Z	0.00	65.52	18.05		86.0		
10398	Random (BW=40 MHz, MOD=64QAM)	X	1.67	64.08	12.98	0.00	102.0	±3.9%	±9.6%
		Y	1.65	63.85	13.20		106.0		
		Z	1.98	65.52	14.09		106.0		
10414	Random (BW=40 MHz, HIGH PAR)	X	1.85	61.82	12.90	0.00	72.0	±2.6%	±9.6%
		Y	1.92	61.59	13.11		75.0		
		Z	2.37	63.26	14.04		75.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Linearization parameter uncertainty for maximum specified field strength.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

EX3DV4 - SN:7738

September 11, 2025

Parameters of Probe: EX3DV4 - SN:7738

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms V^{-2}$	T2 $ms V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
x	6.7	48.87	34.15	2.76	0.00	4.94	0.83	0.00	1.00
y	7.4	55.05	34.99	3.91	0.00	4.90	0.31	0.02	1.00
z	9.0	66.15	34.53	2.33	0.00	4.96	0.68	0.00	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	5.8°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	12 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3–4 mm for an Area Scan job.

EX3DV4 - SN:7738

September 11, 2025

Parameters of Probe: EX3DV4 - SN:7738

Calibration Parameter Determined in HSL

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc ^H (k = 2)
750	41.9	0.89	9.17	9.33	9.72	0.37	1.27	±11.0%
835	41.5	0.90	8.99	9.15	9.53	0.37	1.27	±11.0%
1750	40.1	1.37	7.65	7.79	8.11	0.37	1.27	±11.0%
1900	40.0	1.40	7.32	7.45	7.76	0.37	1.27	±11.0%
2100	39.8	1.48	7.32	7.45	7.76	0.37	1.27	±11.0%
2300	39.5	1.67	7.01	7.14	7.43	0.37	1.27	±11.0%
2450	39.2	1.80	6.61	6.74	7.01	0.37	1.27	±11.0%
2600	39.0	1.96	6.82	6.94	7.23	0.37	1.27	±11.0%
3300	38.2	2.71	6.06	6.18	6.43	0.36	1.27	±13.1%
3500	37.9	2.91	6.18	6.29	6.55	0.36	1.27	±13.1%
3700	37.7	3.12	6.34	6.45	6.72	0.36	1.27	±13.1%
3900	37.5	3.32	6.07	6.18	6.44	0.36	1.27	±13.1%
5250	35.9	4.71	5.03	5.12	5.33	0.32	1.27	±13.1%
5600	35.5	5.07	4.89	4.98	5.18	0.29	1.27	±13.1%
5800	35.3	5.27	4.79	4.88	5.08	0.27	1.27	±13.1%

^C Frequency validity above 300 MHz of ±100 MHz only applies for DASV v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 126, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–8 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ϵ and σ by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10% if SAR correction is applied.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

^H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 63206-1528:2020.

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Parameters of Probe: EX3DV4 - SN:7738

Calibration Parameter Determined in HSL

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc ^H (k = 2)
6500	34.5	6.07	5.05	5.14	5.35	0.20	1.27	±18.6%

^C Frequency validity is -600/+700 MHz at 6.5 GHz, ±700 MHz at or above 7 GHz, and ±150 MHz at 9.85 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ϵ and σ by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

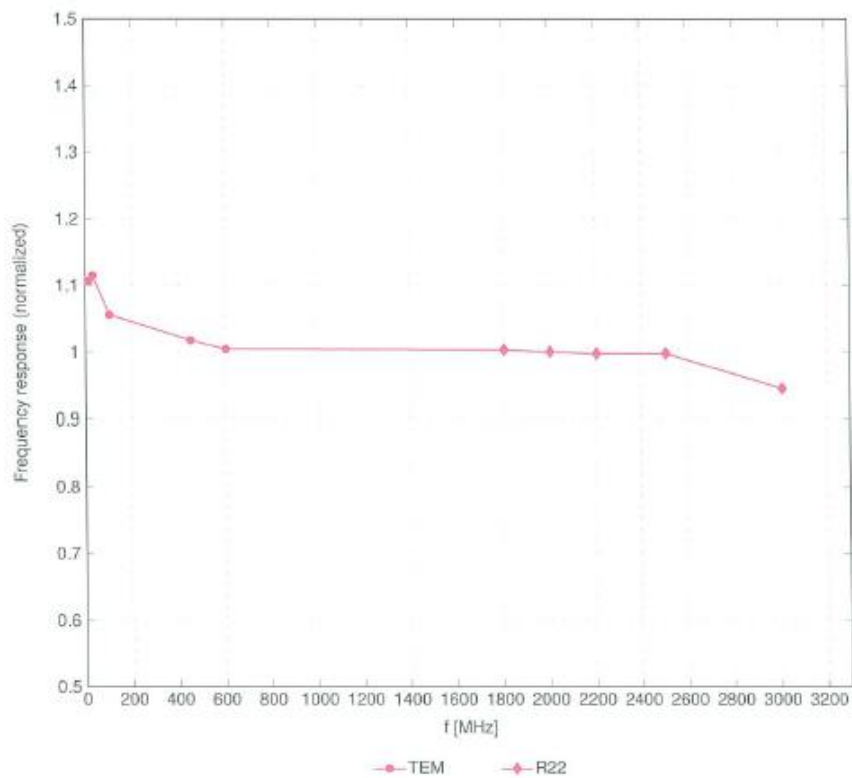
^H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

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Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide:R22)

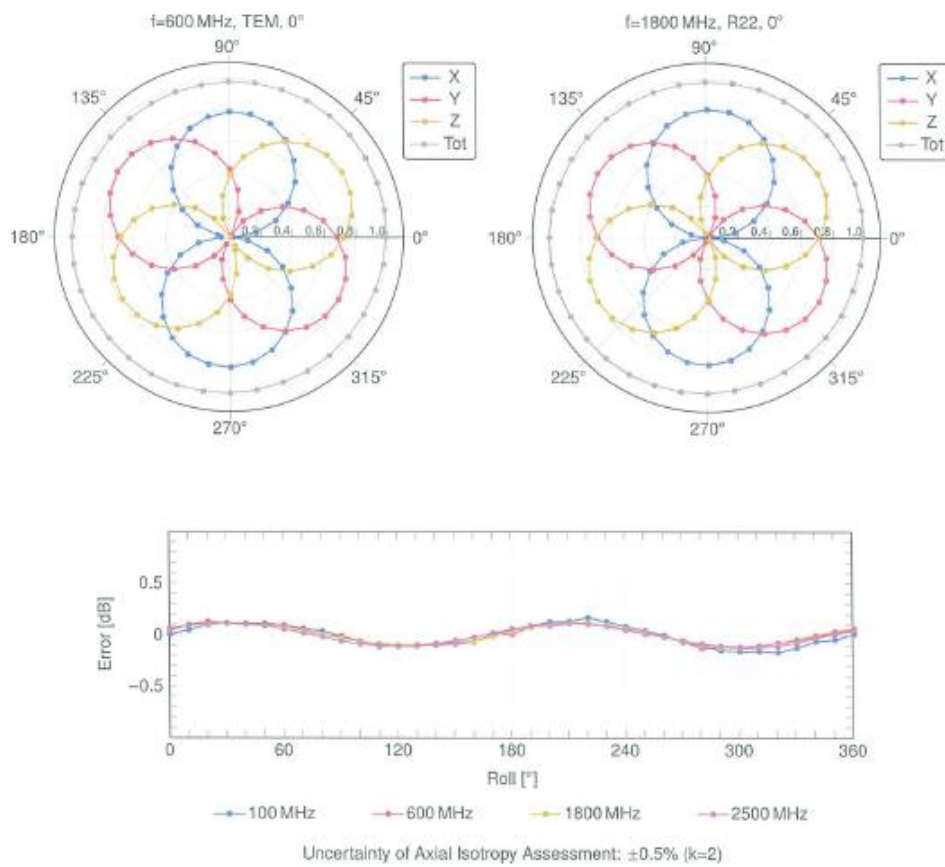


Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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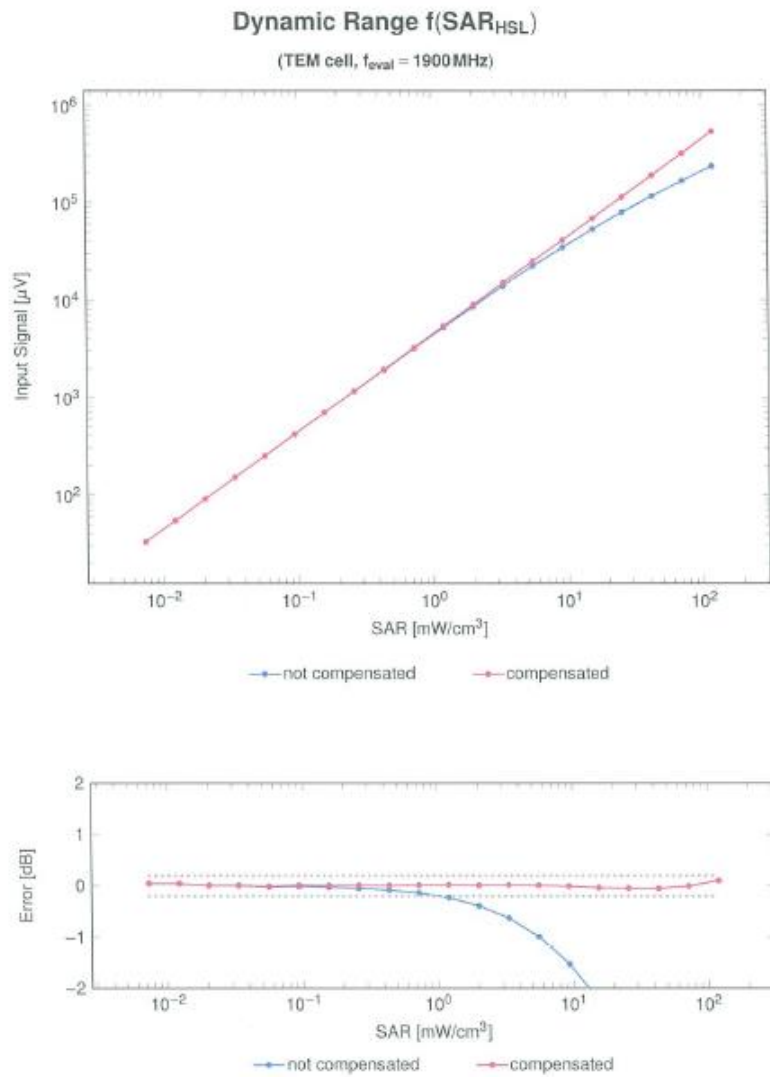
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Receiving Pattern (ϕ), $\theta = 0^\circ$



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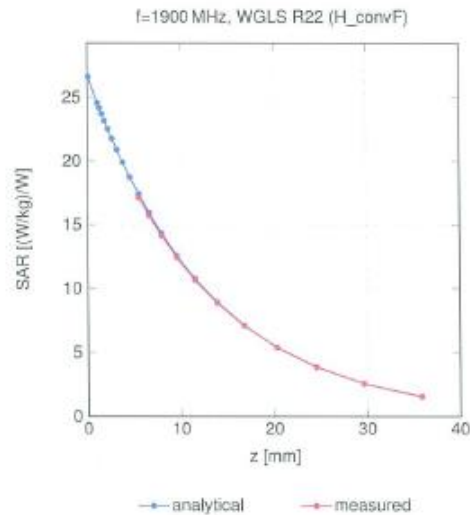


Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

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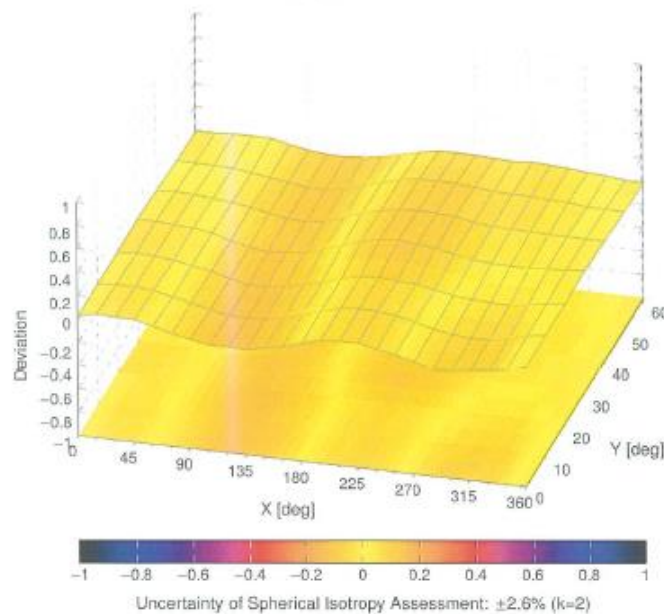
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Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ψ, θ), f=900 MHz



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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^k k = 2
0		Continuous Wave	GW	0.00	±4.7
10010	CAB	Pulse (D=10%, T=100 ms)	Test	10.00	±9.6
10011	CAC	Rel. 99, RMC, QPSK, 5.0 MHz	WCDMA	2.91	±9.6
10012	CAB	DSSS, DBPSK, 1.0 Mbps, 92.5% DC	WLAN	1.87	±9.6
10013	CAB	OFDM, BPSK, 5.0 Mbps, 72.1% DC	WLAN	9.46	±9.6
10021	DAC	Voice, GMSK, 1 slot(s)	GSM	9.39	±9.6
10023	DAC	Data, GMSK, 1 slot(s)	GSM	9.57	±9.6
10024	DAC	Data, GMSK, 2 slot(s)	GSM	6.56	±9.6
10025	DAC	Data, 8PSK, 1 slot(s)	GSM	12.62	±9.6
10026	DAC	Data, 8PSK, 2 slot(s)	GSM	9.56	±9.6
10027	DAC	Data, GMSK, 3 slot(s)	GSM	4.80	±9.6
10028	DAC	Data, GMSK, 4 slot(s)	GSM	3.55	±9.6
10029	DAC	Data, 8PSK, 3 slot(s)	GSM	7.78	±9.6
10030	CAA	BR, DH1, GFSK	Bluetooth	5.20	±9.6
10031	CAA	BR, DH3, GFSK	Bluetooth	1.87	±9.6
10032	CAA	BR, DH5, GFSK	Bluetooth	1.18	±9.6
10033	CAA	EDR, DH1, pi/4-DQPSK	Bluetooth	7.74	±9.6
10034	CAA	EDR, DH3, pi/4-DQPSK	Bluetooth	4.53	±9.6
10035	CAA	EDR, DH5, pi/4-DQPSK	Bluetooth	3.83	±9.6
10036	CAA	EDR, DH1, 8-DPSK	Bluetooth	8.01	±9.6
10037	CAA	EDR, DH3, 8-DPSK	Bluetooth	4.77	±9.6
10038	CAA	EDR, DH5, 8-DPSK	Bluetooth	4.10	±9.6
10039	CAB	RC1, 1xRTT	CDMA2000	4.57	±9.6
10040	CAA	Full Slot, GFSK, 1 slot(s)	DECT	13.80	±9.6
10049	CAA	Double Slot, GFSK, 2 slot(s)	DECT	10.79	±9.6
10056	CAA	TD-SCDMA, CPSC, 1.6 MHz	TD-SCDMA	11.01	±9.6
10058	DAC	Data, 8PSK, 4 slot(s)	GSM	8.52	±9.6
10059	CAB	DSSS, DQPSK, 2.0 Mbps, 87.4% DC	WLAN	2.12	±9.6
10060	CAB	HR-DSSS, DQPSK, 5.5 Mbps, 72.7% DC	WLAN	2.83	±9.6
10061	CAB	HR-DSSS, DQPSK, 11.0 Mbps, 57.5% DC	WLAN	3.80	±9.6
10062	CAE	OFDM, BPSK, 5.0 Mbps, 89.1% DC	WLAN	8.68	±9.6
10063	CAE	OFDM, BPSK, 9.0 Mbps, 85.3% DC	WLAN	8.63	±9.6
10064	CAE	OFDM, QPSK, 12.0 Mbps, 82.0% DC	WLAN	9.08	±9.6
10065	CAE	OFDM, QPSK, 18.0 Mbps, 75.0% DC	WLAN	9.00	±9.6
10066	CAE	OFDM, 16QAM, 24.0 Mbps, 70.6% DC	WLAN	9.38	±9.6
10067	CAE	OFDM, 16QAM, 36.0 Mbps, 62.9% DC	WLAN	10.12	±9.6
10068	CAE	OFDM, 64QAM, 48.0 Mbps, 56.6% DC	WLAN	10.24	±9.6
10069	CAE	OFDM, 64QAM, 54.0 Mbps, 54.4% DC	WLAN	10.56	±9.6
10071	CAB	OFDM, 8PSK, 9.0 Mbps, 65.1% DC	WLAN	9.83	±9.6
10072	CAB	OFDM, QPSK, 12.0 Mbps, 80.1% DC	WLAN	9.62	±9.6
10073	CAB	OFDM, QPSK, 18.0 Mbps, 53.1% DC	WLAN	9.94	±9.6
10074	CAB	OFDM, 16QAM, 24.0 Mbps, 48.5% DC	WLAN	10.30	±9.6
10075	CAB	OFDM, 16QAM, 36.0 Mbps, 42.9% DC	WLAN	10.77	±9.6
10076	CAB	OFDM, 64QAM, 48.0 Mbps, 39.5% DC	WLAN	10.94	±9.6
10077	CAB	OFDM, 64QAM, 54.0 Mbps, 38.5% DC	WLAN	11.00	±9.6
10081	CAB	RC3, 1xRTT	CDMA2000	3.97	±9.6
10097	CAC	Rel. 5 HSDPA, QPSK, 5.0 MHz	WCDMA	3.98	±9.6
10098	CAC	Rel. 6 HSDPA, Subnet 2, QPSK, 5.0 MHz	WCDMA	3.98	±9.6
10100	CAF	20.0 MHz, QPSK, 100% RB	LTE-FDD	5.67	±9.6
10101	CAF	20.0 MHz, 16QAM, 100% RB	LTE-FDD	6.42	±9.6
10102	CAF	20.0 MHz, 64QAM, 100% RB	LTE-FDD	6.60	±9.6
10103	CAH	20.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.29	±9.6
10104	CAH	20.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.97	±9.6
10105	CAH	20.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	10.01	±9.6
10106	CAH	10.0 MHz, QPSK, 100% RB	LTE-FDD	5.80	±9.6
10109	CAH	10.0 MHz, 16QAM, 100% RB	LTE-FDD	6.43	±9.6
10110	CAH	5.0 MHz, QPSK, 100% RB	LTE-FDD	5.75	±9.6
10111	CAH	5.0 MHz, 16QAM, 100% RB	LTE-FDD	6.44	±9.6
10112	CAH	10.0 MHz, 64QAM, 100% RB	LTE-FDD	6.59	±9.6
10113	CAH	5.0 MHz, 64QAM, 100% RB	LTE-FDD	6.52	±9.6
10114	CAE	HT40 Greenfield, MCS0 (13.5 Mbps), 99.7% DC	WLAN	8.10	±9.6
10115	CAE	HT40 Greenfield, MCS4 (81.0 Mbps), 99.7% DC	WLAN	8.46	±9.6
10116	CAE	HT40 Greenfield, MCS7 (135.0 Mbps), 99.7% DC	WLAN	8.15	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^k k = 2
10117	CAE	HT40 Mixed, MCS0 (13.5 Mbps), 99.7% DC	WLAN	8.07	±9.6
10118	CAE	HT40 Mixed, MCS4 (81.0 Mbps), 99.7% DC	WLAN	8.59	±9.6
10119	CAE	HT40 Mixed, MCS7 (135.0 Mbps), 99.7% DC	WLAN	8.13	±9.6
10140	CAF	15.0 MHz, 16QAM, 100% RB	LTE-FDD	6.49	±9.6
10141	CAF	15.0 MHz, 84QAM, 100% RB	LTE-FDD	6.53	±9.6
10142	CAF	3.0 MHz, QPSK, 100% RB	LTE-FDD	5.73	±9.6
10143	CAF	3.0 MHz, 16QAM, 100% RB	LTE-FDD	6.35	±9.6
10144	CAF	3.0 MHz, 64QAM, 100% RB	LTE-FDD	6.55	±9.6
10145	CAG	1.4 MHz, QPSK, 100% RB	LTE-FDD	5.76	±9.6
10146	CAG	1.4 MHz, 16QAM, 100% RB	LTE-FDD	6.41	±9.6
10147	CAG	1.4 MHz, 64QAM, 100% RB	LTE-FDD	6.72	±9.6
10149	CAF	20.0 MHz, 16QAM, 50% RB	LTE-FDD	6.42	±9.6
10150	CAF	20.0 MHz, 84QAM, 50% RB	LTE-FDD	6.50	±9.6
10151	CAH	20.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.28	±9.6
10152	CAH	20.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.92	±9.6
10153	CAH	20.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	10.05	±9.6
10154	CAH	10.0 MHz, QPSK, 50% RB	LTE-FDD	5.75	±9.6
10155	CAH	10.0 MHz, 16QAM, 50% RB	LTE-FDD	6.43	±9.6
10156	CAH	5.0 MHz, QPSK, 50% RB	LTE-FDD	5.79	±9.6
10157	CAH	5.0 MHz, 16QAM, 50% RB	LTE-FDD	6.49	±9.6
10158	CAH	10.0 MHz, 64QAM, 50% RB	LTE-FDD	6.62	±9.6
10159	CAH	5.0 MHz, 64QAM, 50% RB	LTE-FDD	6.56	±9.6
10160	CAF	15.0 MHz, QPSK, 50% RB	LTE-FDD	5.82	±9.6
10161	CAF	15.0 MHz, 16QAM, 50% RB	LTE-FDD	6.43	±9.6
10162	CAF	15.0 MHz, 84QAM, 50% RB	LTE-FDD	6.58	±9.6
10166	CAG	1.4 MHz, QPSK, 50% RB	LTE-FDD	5.46	±9.6
10167	CAG	1.4 MHz, 16QAM, 50% RB	LTE-FDD	6.21	±9.6
10168	CAG	1.4 MHz, 64QAM, 50% RB	LTE-FDD	6.79	±9.6
10169	CAF	20.0 MHz, QPSK, 1 RB	LTE-FDD	5.73	±9.6
10170	CAF	20.0 MHz, 16QAM, 1 RB	LTE-FDD	6.52	±9.6
10171	AAF	20.0 MHz, 64QAM, 1 RB	LTE-FDD	6.49	±9.6
10172	CAH	20.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.21	±9.6
10173	CAH	20.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.48	±9.6
10174	CAH	20.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	10.25	±9.6
10175	CAH	10.0 MHz, QPSK, 1 RB	LTE-FDD	5.72	±9.6
10176	CAH	10.0 MHz, 16QAM, 1 RB	LTE-FDD	6.52	±9.6
10177	CAJ	5.0 MHz, QPSK, 1 RB	LTE-FDD	5.73	±9.6
10178	CAH	5.0 MHz, 16QAM, 1 RB	LTE-FDD	6.52	±9.6
10179	CAH	10.0 MHz, 64QAM, 1 RB	LTE-FDD	6.50	±9.6
10180	CAH	5.0 MHz, 64QAM, 1 RB	LTE-FDD	6.50	±9.6
10181	CAF	15.0 MHz, QPSK, 1 RB	LTE-FDD	5.72	±9.6
10182	CAF	15.0 MHz, 16QAM, 1 RB	LTE-FDD	6.52	±9.6
10183	AAE	15.0 MHz, 84QAM, 1 RB	LTE-FDD	6.50	±9.6
10184	CAF	3.0 MHz, QPSK, 1 RB	LTE-FDD	5.73	±9.6
10185	CAF	3.0 MHz, 16QAM, 1 RB	LTE-FDD	6.51	±9.6
10186	AAF	3.0 MHz, 84QAM, 1 RB	LTE-FDD	6.50	±9.6
10187	CAG	1.4 MHz, QPSK, 1 RB	LTE-FDD	5.73	±9.6
10188	CAG	1.4 MHz, 16QAM, 1 RB	LTE-FDD	6.52	±9.6
10189	AAG	1.4 MHz, 84QAM, 1 RB	LTE-FDD	6.50	±9.6
10193	CAE	HT20 Greenfield, MCS0 (6.5 Mbps), 99.4% DC	WLAN	8.09	±9.6
10194	CAE	HT20 Greenfield, MCS4 (39.0 Mbps), 99.5% DC	WLAN	8.12	±9.6
10195	CAE	HT20 Greenfield, MCS7 (65.0 Mbps), 99.5% DC	WLAN	8.21	±9.6
10196	CAE	HT20 Mixed, MCS0 (6.5 Mbps), 99.4% DC	WLAN	8.10	±9.6
10197	CAE	HT20 Mixed, MCS4 (39.0 Mbps), 99.5% DC	WLAN	8.13	±9.6
10198	CAE	HT20 Mixed, MCS7 (65.0 Mbps), 99.5% DC	WLAN	8.27	±9.6
10219	CAE	HT20 Mixed, MCS0 (7.2 Mbps), 99.3% DC	WLAN	8.03	±9.6
10220	CAE	HT20 Mixed, MCS4 (43.3 Mbps), 99.4% DC	WLAN	8.13	±9.6
10221	CAE	HT20 Mixed, MCS7 (72.2 Mbps), 99.4% DC	WLAN	8.27	±9.6
10222	CAE	HT40 Mixed, MCS0 (15.0 Mbps), 99.7% DC	WLAN	8.06	±9.6
10223	CAE	HT40 Mixed, MCS4 (90.0 Mbps), 99.7% DC	WLAN	8.48	±9.6
10224	CAE	HT40 Mixed, MCS7 (150.0 Mbps), 99.7% DC	WLAN	8.06	±9.6
10225	CAC	Rel. 7 HSPA+, 16QAM, 5.0 MHz	WCDMA	5.97	±9.6
10226	CAC	1.4 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.49	±9.6
10227	CAC	1.4 MHz, 84QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	10.26	±9.6
10228	CAC	1.4 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.22	±9.6
10229	CAE	3.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.48	±9.6

Appendix C

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10230	CAE	3.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	10.25	±9.6
10231	CAE	3.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.19	±9.6
10232	CAH	5.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.48	±9.6
10233	CAH	5.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	10.25	±9.6
10234	CAH	5.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.21	±9.6
10235	CAH	10.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.48	±9.6
10236	CAH	10.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	10.25	±9.6
10237	CAH	10.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.21	±9.6
10238	CAG	15.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.48	±9.6
10239	CAG	15.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	10.25	±9.6
10240	CAG	15.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 1 RB	LTE-TDD	9.21	±9.6
10241	CAC	1.4 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.82	±9.6
10242	CAC	1.4 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.86	±9.6
10243	CAC	1.4 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.46	±9.6
10244	CAE	3.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	10.06	±9.6
10245	CAE	3.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	10.06	±9.6
10246	CAE	3.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.30	±9.6
10247	CAH	5.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.91	±9.6
10248	CAH	5.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	10.09	±9.6
10249	CAH	5.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.29	±9.6
10250	CAH	10.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.81	±9.6
10251	CAH	10.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	10.17	±9.6
10252	CAH	10.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.24	±9.6
10253	CAG	15.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.90	±9.6
10254	CAG	15.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	10.14	±9.6
10255	CAG	15.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 50% RB	LTE-TDD	9.20	±9.6
10256	CAC	1.4 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.98	±9.6
10257	CAC	1.4 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	10.09	±9.6
10258	CAC	1.4 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.34	±9.6
10259	CAE	3.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.98	±9.6
10260	CAE	3.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.97	±9.6
10261	CAE	3.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.24	±9.6
10262	CAH	5.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.83	±9.6
10263	CAH	5.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	10.16	±9.6
10264	CAH	5.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.23	±9.6
10265	CAH	10.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.92	±9.6
10266	CAH	10.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	10.07	±9.6
10267	CAH	10.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.30	±9.6
10268	CAG	15.0 MHz, 16QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	10.06	±9.6
10269	CAG	15.0 MHz, 64QAM, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	10.13	±9.6
10270	CAG	15.0 MHz, QPSK, UL/DL CFG: 1, SSC: 4, 100% RB	LTE-TDD	9.58	±9.6
10274	CAC	Rel. 6 HSUPA Subset 2, beta_d 0, QPSK, 5.0 MHz	WCDMA	4.67	±9.6
10275	CAC	Rel. 6 HSUPA Subset 2, beta_d 15, QPSK, 5.0 MHz	WCDMA	3.95	±9.6
10290	AAB	RC1, SC55, Full frame rate, 1xRTT	CDMA2000	3.91	±9.6
10291	AAB	RC3, SC65, Full frame rate, 1xRTT	CDMA2000	3.46	±9.6
10292	AAB	RC3, SC32, Full frame rate, SCH0 disabled, 1xRTT	CDMA2000	3.39	±9.6
10293	AAB	RC3, SC3, Full frame rate, 1xRTT	CDMA2000	3.50	±9.6
10296	AAB	RC3, SC3, 1/8 frame rate, 1xRTT	CDMA2000	12.49	±9.6
10297	AAE	20.0 MHz, QPSK, 50% RB	LTE-FDD	5.81	±9.6
10298	AAE	3.0 MHz, QPSK, 50% RB	LTE-FDD	5.72	±9.6
10299	AAE	3.0 MHz, 16QAM, 50% RB	LTE-FDD	5.39	±9.6
10300	AAE	3.0 MHz, 64QAM, 50% RB	LTE-FDD	6.60	±9.6
10301	AAA	PUSC, 29:18, QPSK, 5.0 ms, 18 TRAF SYM	WIMAX	12.03	±9.6
10302	AAA	PUSC, 29:18, QPSK, 5.0 ms, 15 TRAF SYM	WIMAX	12.57	±9.6
10303	AAA	PUSC, 31:15, 64QAM, 5.0 ms, 15 TRAF SYM	WIMAX	12.52	±9.6
10304	AAA	PUSC, 29:18, 64QAM, 5.0 ms, 18 TRAF SYM	WIMAX	11.86	±9.6
10305	AAA	PUSC, 31:15, 64QAM, 10.0 ms, 15 TRAF SYM	WIMAX	15.24	±9.6
10306	AAA	PUSC, 29:18, 64QAM, 10.0 ms, 18 TRAF SYM	WIMAX	14.67	±9.6
10307	AAA	PUSC, 29:18, QPSK, 10.0 ms, 18 TRAF SYM	WIMAX	14.49	±9.6
10308	AAA	PUSC, 29:18, 16QAM, 10.0 ms, 18 TRAF SYM	WIMAX	14.46	±9.6
10309	AAA	AMC 2x3, 29:18, 16QAM, 10.0 ms, 18 TRAF SYM	WIMAX	14.58	±9.6
10310	AAA	AMC 2x3, 29:18, QPSK, 10.0 ms, 18 TRAF SYM	WIMAX	14.57	±9.6
10311	AAE	15.0 MHz, QPSK, 100% RB	LTE-FDD	6.06	±9.6
10315	AAB	DSSS, DBPSK, 1.0 Mbps, 96.0% DC	WLAN	1.71	±9.6
10316	AAB	OFDM, BPSK, 6.0 Mbps, 95.9% DC	WLAN	8.36	±9.6
10317	AAE	OFDM, BPSK, 6.0 Mbps, 95.9% DC	WLAN	8.36	±9.6

Appendix C

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^k k = 2
10352	AAA	Pulse (D=10%, T=5 ms)	Generic	10.00	±9.6
10353	AAA	Pulse (D=20%, T=5 ms)	Generic	6.99	±9.6
10354	AAA	Pulse (D=40%, T=5 ms)	Generic	3.98	±9.6
10355	AAA	Pulse (D=60%, T=5 ms)	Generic	2.22	±9.6
10356	AAA	Pulse (D=80%, T=5 ms)	Generic	0.97	±9.6
10387	AAA	Random (BW=1 MHz, MOD=QPSK)	Generic	5.10	±9.6
10388	AAA	Random (BW=10 MHz, MOD=QPSK)	Generic	5.22	±9.6
10396	AAA	Random (BW=100 kHz, MOD=64QAM)	Generic	6.27	±9.6
10399	AAA	Random (BW=40 MHz, MOD=64QAM)	Generic	6.27	±9.6
10400	AAF	VHT20, MCS5 (52.0 Mbps), 99.0% DC	WLAN	8.37	±9.6
10401	AAF	VHT40, MCS5 (108.0 Mbps), 96.7% DC	WLAN	8.60	±9.6
10402	AAF	VHT80, MCS5 (234.0 Mbps), 99.0% DC	WLAN	8.53	±9.6
10403	AAB	Rev. 0, 1xEV-DO	CDMA2000	3.76	±9.6
10404	AAB	Rev. A, 1xEV-DO	CDMA2000	3.77	±9.6
10406	AAB	RC3, SO32, Full frame rate, SCH0 enabled, 1xRTT	CDMA2000	5.22	±9.6
10410	AAH	10.0 MHz, QPSK, UL/DL CFG: 0, SSC: 4, 1 RB	LTE-TDD	7.82	±9.6
10414	AAA	Random (BW=40 MHz, HIGH PAR)	Generic	8.54	±9.6
10415	AAA	DSSS, DBPSK, 1.0 Mbps, 99.9% DC	WLAN	1.54	±9.6
10416	AAA	OFDM, BPSK, 6.0 Mbps, 99.9% DC	WLAN	8.23	±9.6
10417	AAD	OFDM, BPSK, 6.0 Mbps, 99.9% DC	WLAN	8.23	±9.6
10418	AAA	OFDM (LTF), BPSK, 6.0 Mbps, 99.8% DC	WLAN	8.14	±9.6
10419	AAA	OFDM (STF), BPSK, 6.0 Mbps, 99.8% DC	WLAN	8.19	±9.6
10422	AAD	HT20 Greenfield, MCS0 (7.2 Mbps), 99.3% DC	WLAN	8.32	±9.6
10423	AAD	HT20 Greenfield, MCS4 (43.3 Mbps), 99.3% DC	WLAN	8.47	±9.6
10424	AAD	HT20 Greenfield, MCS7 (72.2 Mbps), 99.3% DC	WLAN	8.40	±9.6
10425	AAD	HT40 Greenfield, MCS0 (15.0 Mbps), 99.2% DC	WLAN	8.41	±9.6
10426	AAD	HT40 Greenfield, MCS4 (90.0 Mbps), 99.2% DC	WLAN	8.45	±9.6
10427	AAD	HT40 Greenfield, MCS7 (150.0 Mbps), 99.2% DC	WLAN	8.41	±9.6
10430	AAE	5.0 MHz, 64-QAM, 100% RB	LTE-FDD	8.28	±9.6
10431	AAE	10.0 MHz, 64-QAM, 100% RB	LTE-FDD	8.38	±9.6
10432	AAD	15.0 MHz, 64-QAM, 100% RB	LTE-FDD	8.34	±9.6
10433	AAD	20.0 MHz, 64-QAM, 100% RB	LTE-FDD	8.34	±9.6
10434	AAB	BS Test Model 1, 64 DPCH, 64QAM, 5.0 MHz (DL)	WCDMA	6.80	±9.6
10435	AAG	20.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	7.82	±9.6
10447	AAE	5.0 MHz, 64-QAM, 100% RB	LTE-FDD	7.56	±9.6
10448	AAE	10.0 MHz, 64-QAM, 100% RB	LTE-FDD	7.53	±9.6
10449	AAD	15.0 MHz, 64-QAM, 100% RB	LTE-FDD	7.51	±9.6
10450	AAD	20.0 MHz, 64-QAM, 100% RB	LTE-FDD	7.48	±9.6
10451	AAB	BS Test Model 1, 64 DPCH, Clipping 44%, 64QAM, 5.0 MHz (DL)	WCDMA	7.59	±9.6
10456	AAD	VHT160, MCS5 (58.5 Mbps), 99.0% DC	WLAN	8.63	±9.6
10457	AAB	Rel. 5 DC-HSDPA, QPSK, 10.0 MHz	WCDMA	6.62	±9.6
10458	AAA	Rev. B, 2 carriers, 1xEV-DO	CDMA2000	6.55	±9.6
10459	AAA	Rev. B, 3 carriers, 1xEV-DO	CDMA2000	8.25	±9.6
10460	AAB	Rel. 99, AMR, QPSK, 5.0 MHz	WCDMA	2.39	±9.6
10461	AAC	1.4 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	7.82	±9.6
10462	AAC	1.4 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.30	±9.6
10463	AAC	1.4 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.58	±9.6
10464	AAD	3.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	7.82	±9.6
10465	AAD	3.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.32	±9.6
10466	AAD	3.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.57	±9.6
10467	AAG	5.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	7.82	±9.6
10468	AAG	5.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.32	±9.6
10469	AAG	5.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.56	±9.6
10470	AAG	10.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	7.82	±9.6
10471	AAG	10.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.32	±9.6
10472	AAG	10.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.57	±9.6
10473	AAF	15.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	7.82	±9.6
10474	AAF	15.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.32	±9.6
10475	AAF	15.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.57	±9.6
10477	AAG	20.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.32	±9.6
10478	AAG	20.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 1 RB	LTE-TDD	8.57	±9.6
10479	AAC	1.4 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	7.74	±9.6
10480	AAC	1.4 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.18	±9.6
10481	AAC	1.4 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.45	±9.6
10482	AAD	3.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	7.71	±9.6
10483	AAD	3.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.39	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^k k = 2
10484	AAD	3.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.47	±9.6
10485	AAG	5.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	7.59	±9.6
10486	AAG	5.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.38	±9.6
10487	AAG	5.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.60	±9.6
10488	AAG	10.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	7.70	±9.6
10489	AAG	10.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.31	±9.6
10490	AAG	10.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.54	±9.6
10491	AAF	15.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	7.74	±9.6
10492	AAF	15.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.41	±9.6
10493	AAF	15.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.55	±9.6
10494	AAG	20.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	7.74	±9.6
10495	AAG	20.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.37	±9.6
10496	AAG	20.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 50% RB	LTE-TDD	8.54	±9.6
10497	AAC	1.4 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	7.87	±9.6
10498	AAC	1.4 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.40	±9.6
10499	AAC	1.4 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.68	±9.6
10500	AAD	3.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	7.87	±9.6
10501	AAD	3.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.44	±9.6
10502	AAD	3.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.52	±9.6
10503	AAG	5.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	7.72	±9.6
10504	AAG	5.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.31	±9.6
10505	AAG	5.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.54	±9.6
10506	AAG	10.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	7.74	±9.6
10507	AAG	10.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.36	±9.6
10508	AAG	10.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.55	±9.6
10509	AAF	15.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	7.99	±9.6
10510	AAF	15.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.48	±9.6
10511	AAF	15.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.51	±9.6
10512	AAG	20.0 MHz, QPSK, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	7.74	±9.6
10513	AAG	20.0 MHz, 16QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.42	±9.6
10514	AAG	20.0 MHz, 64QAM, UL/DL CFG: 0, SSC: 7, 100% RB	LTE-TDD	8.45	±9.6
10515	AAA	DSSS, DQPSK, 2.0 Mbps, 99.0% DC	WLAN	1.58	±9.6
10516	AAA	HR-DSSS, DQPSK, 5.5 Mbps, 99.2% DC	WLAN	1.57	±9.6
10517	AAA	HR-DSSS, DQPSK, 11.0 Mbps, 99.0% DC	WLAN	1.58	±9.6
10518	AAD	OFDM, BPSK, 9.0 Mbps, 98.9% DC	WLAN	8.23	±9.6
10519	AAD	OFDM, QPSK, 12.0 Mbps, 99.0% DC	WLAN	8.39	±9.6
10520	AAD	OFDM, QPSK, 16.0 Mbps, 99.0% DC	WLAN	8.12	±9.6
10521	AAD	OFDM, 16QAM, 24.0 Mbps, 99.0% DC	WLAN	7.97	±9.6
10522	AAD	OFDM, 16QAM, 36.0 Mbps, 99.0% DC	WLAN	8.45	±9.6
10523	AAD	OFDM, 64QAM, 48.0 Mbps, 99.0% DC	WLAN	8.08	±9.6
10524	AAD	OFDM, 64QAM, 54.0 Mbps, 99.0% DC	WLAN	8.27	±9.6
10525	AAD	VHT20, MCS0 (6.5 Mbps), 98.9% DC	WLAN	8.38	±9.6
10526	AAD	VHT20, MCS1 (13.0 Mbps), 99.0% DC	WLAN	8.42	±9.6
10527	AAD	VHT20, MCS2 (19.5 Mbps), 99.0% DC	WLAN	8.21	±9.6
10528	AAD	VHT20, MCS3 (26.0 Mbps), 99.0% DC	WLAN	8.36	±9.6
10529	AAD	VHT20, MCS4 (39.0 Mbps), 99.0% DC	WLAN	8.36	±9.6
10531	AAD	VHT20, MCS6 (58.5 Mbps), 99.0% DC	WLAN	8.43	±9.6
10532	AAD	VHT20, MCS7 (65.0 Mbps), 99.0% DC	WLAN	8.29	±9.6
10533	AAD	VHT20, MCS8 (78.0 Mbps), 99.0% DC	WLAN	8.38	±9.6
10534	AAD	VHT40, MCS0 (13.5 Mbps), 98.9% DC	WLAN	8.45	±9.6
10535	AAD	VHT40, MCS1 (27.0 Mbps), 98.8% DC	WLAN	8.45	±9.6
10536	AAD	VHT40, MCS2 (40.5 Mbps), 98.8% DC	WLAN	8.32	±9.6
10537	AAD	VHT40, MCS3 (54.0 Mbps), 98.7% DC	WLAN	8.44	±9.6
10538	AAD	VHT40, MCS4 (81.0 Mbps), 98.5% DC	WLAN	8.54	±9.6
10540	AAD	VHT40, MCS6 (121.5 Mbps), 98.3% DC	WLAN	8.39	±9.6
10541	AAD	VHT40, MCS7 (135.0 Mbps), 98.3% DC	WLAN	8.46	±9.6
10542	AAD	VHT40, MCS8 (162.0 Mbps), 98.1% DC	WLAN	8.65	±9.6
10543	AAD	VHT40, MCS9 (180.0 Mbps), 98.0% DC	WLAN	8.65	±9.6
10544	AAD	VHT80, MCS0 (29.3 Mbps), 99.0% DC	WLAN	8.47	±9.6
10545	AAD	VHT80, MCS1 (58.5 Mbps), 99.0% DC	WLAN	8.55	±9.6
10546	AAD	VHT80, MCS2 (87.8 Mbps), 99.0% DC	WLAN	8.35	±9.6
10547	AAD	VHT80, MCS3 (117.0 Mbps), 99.0% DC	WLAN	8.49	±9.6
10548	AAD	VHT80, MCS4 (175.5 Mbps), 99.0% DC	WLAN	8.37	±9.6
10550	AAD	VHT80, MCS6 (263.3 Mbps), 99.0% DC	WLAN	8.38	±9.6
10551	AAD	VHT80, MCS7 (292.5 Mbps), 99.0% DC	WLAN	8.50	±9.6
10552	AAD	VHT80, MCS8 (351.0 Mbps), 99.0% DC	WLAN	8.42	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10553	AAD	VHT80, MCS9 (390.0 Mbps), 99.0% DC	WLAN	8.45	±9.6
10554	AAE	VHT160, MCS0 (58.5 Mbps), 99.0% DC	WLAN	8.49	±9.6
10555	AAE	VHT160, MCS1 (117.0 Mbps), 99.0% DC	WLAN	8.47	±9.6
10556	AAE	VHT160, MCS2 (175.5 Mbps), 99.0% DC	WLAN	8.50	±9.6
10557	AAE	VHT160, MCS3 (234.0 Mbps), 99.0% DC	WLAN	8.52	±9.6
10558	AAE	VHT160, MCS4 (351.0 Mbps), 99.0% DC	WLAN	8.61	±9.6
10560	AAE	VHT160, MCS6 (526.5 Mbps), 99.0% DC	WLAN	8.73	±9.6
10561	AAE	VHT160, MCS7 (585.0 Mbps), 99.0% DC	WLAN	8.56	±9.6
10562	AAE	VHT160, MCS8 (702.0 Mbps), 99.0% DC	WLAN	8.69	±9.6
10563	AAE	VHT160, MCS9 (780.0 Mbps), 99.0% DC	WLAN	8.77	±9.6
10564	AAA	OFDM, BPSK, 9.0 Mbps, 99.0% DC	WLAN	8.25	±9.6
10565	AAA	OFDM, QPSK, 12.0 Mbps, 99.0% DC	WLAN	8.45	±9.6
10566	AAA	OFDM, QPSK, 18.0 Mbps, 99.0% DC	WLAN	8.13	±9.6
10567	AAA	OFDM, 16QAM, 24.0 Mbps, 99.0% DC	WLAN	8.00	±9.6
10568	AAA	OFDM, 16QAM, 36.0 Mbps, 99.0% DC	WLAN	8.37	±9.6
10569	AAA	OFDM, 64QAM, 48.0 Mbps, 99.0% DC	WLAN	8.10	±9.6
10570	AAA	OFDM, 64QAM, 54.0 Mbps, 99.0% DC	WLAN	8.30	±9.6
10571	AAA	DSSS, DQPSK, 1.0 Mbps, 90.0% DC	WLAN	1.99	±9.6
10572	AAA	DSSS, DQPSK, 2.0 Mbps, 90.0% DC	WLAN	1.99	±9.6
10573	AAA	HR-DSSS, DQPSK, 5.5 Mbps, 90.1% DC	WLAN	1.98	±9.6
10574	AAA	HR-DSSS, DQPSK, 11.0 Mbps, 90.3% DC	WLAN	1.98	±9.6
10575	AAA	OFDM, BPSK, 6.0 Mbps, 89.9% DC	WLAN	8.59	±9.6
10576	AAA	OFDM, BPSK, 9.0 Mbps, 89.9% DC	WLAN	8.60	±9.6
10577	AAA	OFDM, QPSK, 12.0 Mbps, 90.0% DC	WLAN	8.70	±9.6
10578	AAA	OFDM, QPSK, 18.0 Mbps, 90.0% DC	WLAN	8.49	±9.6
10579	AAA	OFDM, 16QAM, 24.0 Mbps, 90.0% DC	WLAN	8.35	±9.6
10580	AAA	OFDM, 16QAM, 36.0 Mbps, 90.0% DC	WLAN	8.76	±9.6
10581	AAA	OFDM, 64QAM, 48.0 Mbps, 90.0% DC	WLAN	8.35	±9.6
10582	AAA	OFDM, 64QAM, 54.0 Mbps, 90.0% DC	WLAN	8.67	±9.6
10583	AAD	OFDM, BPSK, 6.0 Mbps, 89.9% DC	WLAN	8.59	±9.6
10584	AAD	OFDM, BPSK, 9.0 Mbps, 89.9% DC	WLAN	8.60	±9.6
10585	AAD	OFDM, QPSK, 12.0 Mbps, 90.0% DC	WLAN	8.70	±9.6
10586	AAD	OFDM, QPSK, 18.0 Mbps, 90.0% DC	WLAN	8.49	±9.6
10587	AAD	OFDM, 16QAM, 24.0 Mbps, 90.0% DC	WLAN	8.36	±9.6
10588	AAD	OFDM, 16QAM, 36.0 Mbps, 90.0% DC	WLAN	8.76	±9.6
10589	AAD	OFDM, 64QAM, 48.0 Mbps, 90.0% DC	WLAN	8.35	±9.6
10590	AAD	OFDM, 64QAM, 54.0 Mbps, 90.0% DC	WLAN	8.67	±9.6
10591	AAD	HT20 Mixed, MCS0 (6.5 Mbps), 89.9% DC	WLAN	8.63	±9.6
10592	AAD	HT20 Mixed, MCS1 (13.0 Mbps), 90.0% DC	WLAN	8.79	±9.6
10593	AAD	HT20 Mixed, MCS2 (19.5 Mbps), 90.0% DC	WLAN	8.64	±9.6
10594	AAD	HT20 Mixed, MCS3 (26.0 Mbps), 90.0% DC	WLAN	8.74	±9.6
10595	AAD	HT20 Mixed, MCS4 (39.0 Mbps), 90.0% DC	WLAN	8.74	±9.6
10596	AAD	HT20 Mixed, MCS5 (52.0 Mbps), 90.0% DC	WLAN	8.71	±9.6
10597	AAD	HT20 Mixed, MCS6 (58.5 Mbps), 90.0% DC	WLAN	8.72	±9.6
10598	AAD	HT20 Mixed, MCS7 (85.0 Mbps), 90.0% DC	WLAN	8.50	±9.6
10599	AAD	HT40 Mixed, MCS0 (13.5 Mbps), 89.9% DC	WLAN	8.79	±9.6
10600	AAD	HT40 Mixed, MCS1 (27.0 Mbps), 89.7% DC	WLAN	8.88	±9.6
10601	AAD	HT40 Mixed, MCS2 (40.5 Mbps), 89.6% DC	WLAN	8.82	±9.6
10602	AAD	HT40 Mixed, MCS3 (54.0 Mbps), 89.4% DC	WLAN	8.94	±9.6
10603	AAD	HT40 Mixed, MCS4 (81.0 Mbps), 89.2% DC	WLAN	9.03	±9.6
10604	AAD	HT40 Mixed, MCS5 (106.0 Mbps), 88.9% DC	WLAN	8.76	±9.6
10605	AAD	HT40 Mixed, MCS6 (121.5 Mbps), 88.8% DC	WLAN	8.97	±9.6
10606	AAD	HT40 Mixed, MCS7 (135.0 Mbps), 88.7% DC	WLAN	8.82	±9.6
10607	AAD	VHT20, MCS0 (6.5 Mbps), 89.9% DC	WLAN	8.64	±9.6
10608	AAD	VHT20, MCS1 (13.0 Mbps), 90.0% DC	WLAN	8.77	±9.6
10609	AAD	VHT20, MCS2 (19.5 Mbps), 90.0% DC	WLAN	8.57	±9.6
10610	AAD	VHT20, MCS3 (26.0 Mbps), 90.0% DC	WLAN	8.78	±9.6
10611	AAD	VHT20, MCS4 (39.0 Mbps), 90.0% DC	WLAN	8.70	±9.6
10612	AAD	VHT20, MCS5 (52.0 Mbps), 90.0% DC	WLAN	8.77	±9.6
10613	AAD	VHT20, MCS6 (58.5 Mbps), 90.0% DC	WLAN	8.94	±9.6
10614	AAD	VHT20, MCS7 (85.0 Mbps), 90.0% DC	WLAN	8.59	±9.6
10615	AAD	VHT20, MCS8 (78.0 Mbps), 90.0% DC	WLAN	8.82	±9.6
10616	AAD	VHT40, MCS0 (13.5 Mbps), 89.9% DC	WLAN	8.82	±9.6
10617	AAD	VHT40, MCS1 (27.0 Mbps), 89.7% DC	WLAN	8.81	±9.6
10618	AAD	VHT40, MCS2 (40.5 Mbps), 89.6% DC	WLAN	8.58	±9.6
10619	AAD	VHT40, MCS3 (54.0 Mbps), 89.4% DC	WLAN	8.68	±9.6

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10620	AAD	VHT40, MCS4 (81.0 Mbps), 89.2% DC	WLAN	8.87	±9.6
10621	AAD	VHT40, MCS5 (108.0 Mbps), 88.9% DC	WLAN	8.77	±9.6
10622	AAD	VHT40, MCS6 (121.5 Mbps), 88.8% DC	WLAN	8.68	±9.6
10623	AAD	VHT40, MCS7 (135.0 Mbps), 88.6% DC	WLAN	8.62	±9.6
10624	AAD	VHT40, MCS8 (162.0 Mbps), 88.4% DC	WLAN	8.56	±9.6
10625	AAD	VHT40, MCS9 (180.0 Mbps), 88.2% DC	WLAN	8.56	±9.6
10626	AAD	VHT80, MCS0 (29.3 Mbps), 90.0% DC	WLAN	8.83	±9.6
10627	AAD	VHT80, MCS1 (58.5 Mbps), 90.0% DC	WLAN	8.86	±9.6
10628	AAD	VHT80, MCS2 (87.8 Mbps), 90.0% DC	WLAN	8.71	±9.6
10629	AAD	VHT80, MCS3 (117.0 Mbps), 90.0% DC	WLAN	8.65	±9.6
10630	AAD	VHT80, MCS4 (175.5 Mbps), 90.0% DC	WLAN	8.72	±9.6
10631	AAD	VHT80, MCS5 (234.0 Mbps), 90.0% DC	WLAN	8.61	±9.6
10632	AAD	VHT80, MCS6 (263.3 Mbps), 90.0% DC	WLAN	8.74	±9.6
10633	AAD	VHT80, MCS7 (292.5 Mbps), 90.0% DC	WLAN	8.83	±9.6
10634	AAD	VHT80, MCS8 (351.0 Mbps), 90.0% DC	WLAN	8.80	±9.6
10635	AAD	VHT80, MCS9 (390.0 Mbps), 90.0% DC	WLAN	8.81	±9.6
10636	AAE	VHT160, MCS0 (58.5 Mbps), 90.0% DC	WLAN	8.83	±9.6
10637	AAE	VHT160, MCS1 (117.0 Mbps), 90.0% DC	WLAN	8.79	±9.6
10638	AAE	VHT160, MCS2 (175.5 Mbps), 90.0% DC	WLAN	8.86	±9.6
10639	AAE	VHT160, MCS3 (234.0 Mbps), 90.0% DC	WLAN	8.85	±9.6
10640	AAE	VHT160, MCS4 (351.0 Mbps), 90.0% DC	WLAN	8.99	±9.6
10641	AAE	VHT160, MCS5 (468.0 Mbps), 90.0% DC	WLAN	9.06	±9.6
10642	AAE	VHT160, MCS6 (526.5 Mbps), 90.0% DC	WLAN	9.06	±9.6
10643	AAE	VHT160, MCS7 (585.0 Mbps), 90.0% DC	WLAN	8.89	±9.6
10644	AAE	VHT160, MCS8 (702.0 Mbps), 90.0% DC	WLAN	9.06	±9.6
10645	AAE	VHT160, MCS9 (780.0 Mbps), 90.0% DC	WLAN	9.11	±9.6
10646	AAH	5.0 MHz, QPSK, UL/DL CFG: 2, SSC: 4, 1 RB	LTE-TDD	11.96	±9.6
10647	AAG	20.0 MHz, QPSK, UL/DL CFG: 2, SSC: 7, 1 RB	LTE-TDD	11.96	±9.6
10648	AAA	PCS, SOT5, 1xAdvanced	CDMA2000	3.45	±9.6
10670	AAA	LE, Test, GFSK	Bluetooth	2.19	±9.6
10671	AAC	ET20, MCS0 (8.8 Mbps), 90.0% DC	WLAN	9.09	±9.6
10672	AAC	ET20, MCS1 (17.0 Mbps), 90.0% DC	WLAN	8.57	±9.6
10673	AAC	ET20, MCS2 (26.0 Mbps), 90.0% DC	WLAN	8.78	±9.6
10674	AAC	ET20, MCS3 (34.0 Mbps), 90.0% DC	WLAN	8.74	±9.6
10675	AAC	ET20, MCS4 (52.0 Mbps), 90.0% DC	WLAN	8.90	±9.6
10676	AAC	ET20, MCS5 (69.0 Mbps), 90.0% DC	WLAN	8.77	±9.6
10677	AAC	ET20, MCS6 (77.0 Mbps), 90.0% DC	WLAN	8.73	±9.6
10678	AAC	ET20, MCS7 (86.0 Mbps), 90.0% DC	WLAN	8.79	±9.6
10679	AAC	ET20, MCS8 (103.0 Mbps), 90.0% DC	WLAN	8.89	±9.6
10680	AAC	ET20, MCS9 (115.0 Mbps), 90.0% DC	WLAN	8.80	±9.6
10681	AAC	ET20, MCS10 (122.0 Mbps), 90.0% DC	WLAN	8.62	±9.6
10682	AAC	ET20, MCS11 (135.0 Mbps), 90.0% DC	WLAN	8.83	±9.6
10683	AAC	ET20, MCS0 (8.8 Mbps), 100.0% DC	WLAN	8.42	±9.6
10684	AAC	ET20, MCS1 (17.0 Mbps), 100.0% DC	WLAN	9.26	±9.6
10685	AAC	ET20, MCS2 (26.0 Mbps), 100.0% DC	WLAN	9.33	±9.6
10686	AAC	ET20, MCS3 (34.0 Mbps), 100.0% DC	WLAN	9.28	±9.6
10687	AAC	ET20, MCS4 (52.0 Mbps), 100.0% DC	WLAN	9.45	±9.6
10688	AAC	ET20, MCS5 (69.0 Mbps), 100.0% DC	WLAN	9.29	±9.6
10689	AAC	ET20, MCS6 (77.0 Mbps), 100.0% DC	WLAN	9.55	±9.6
10690	AAC	ET20, MCS7 (86.0 Mbps), 100.0% DC	WLAN	9.29	±9.6
10691	AAC	ET20, MCS8 (103.0 Mbps), 100.0% DC	WLAN	9.25	±9.6
10692	AAC	ET20, MCS9 (115.0 Mbps), 100.0% DC	WLAN	9.29	±9.6
10693	AAC	ET20, MCS10 (122.0 Mbps), 100.0% DC	WLAN	9.25	±9.6
10694	AAC	ET20, MCS11 (135.0 Mbps), 100.0% DC	WLAN	9.57	±9.6
10695	AAC	ET40, MCS0 (17.2 Mbps), 89.8% DC	WLAN	8.78	±9.6
10696	AAC	ET40, MCS1 (34.0 Mbps), 89.8% DC	WLAN	8.91	±9.6
10697	AAC	ET40, MCS2 (52.0 Mbps), 89.7% DC	WLAN	8.61	±9.6
10698	AAC	ET40, MCS3 (69.0 Mbps), 89.7% DC	WLAN	8.89	±9.6
10699	AAC	ET40, MCS4 (103.0 Mbps), 89.9% DC	WLAN	8.82	±9.6
10700	AAC	ET40, MCS5 (138.0 Mbps), 89.8% DC	WLAN	8.73	±9.6
10701	AAC	ET40, MCS6 (155.0 Mbps), 89.8% DC	WLAN	8.86	±9.6
10702	AAC	ET40, MCS7 (172.0 Mbps), 89.8% DC	WLAN	8.70	±9.6
10703	AAC	ET40, MCS8 (207.0 Mbps), 89.8% DC	WLAN	8.82	±9.6
10704	AAC	ET40, MCS9 (229.0 Mbps), 89.9% DC	WLAN	8.58	±9.6
10705	AAC	ET40, MCS10 (258.0 Mbps), 89.8% DC	WLAN	8.89	±9.6
10706	AAC	ET40, MCS11 (267.0 Mbps), 89.8% DC	WLAN	8.66	±9.6

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10707	AAC	ET40, MCS0 (17.2 Mbps), 99.8% DC	WLAN	8.32	±9.6
10708	AAC	ET40, MCS1 (34.0 Mbps), 99.7% DC	WLAN	8.55	±9.6
10709	AAC	ET40, MCS2 (52.0 Mbps), 99.7% DC	WLAN	8.33	±9.6
10710	AAC	ET40, MCS3 (69.0 Mbps), 99.7% DC	WLAN	8.29	±9.6
10711	AAC	ET40, MCS4 (103.0 Mbps), 99.8% DC	WLAN	8.39	±9.6
10712	AAC	ET40, MCS5 (138.0 Mbps), 99.8% DC	WLAN	8.87	±9.6
10713	AAC	ET40, MCS6 (155.0 Mbps), 99.8% DC	WLAN	8.33	±9.6
10714	AAC	ET40, MCS7 (172.0 Mbps), 99.8% DC	WLAN	8.26	±9.6
10715	AAC	ET40, MCS8 (207.0 Mbps), 99.8% DC	WLAN	8.45	±9.6
10716	AAC	ET40, MCS9 (229.0 Mbps), 99.8% DC	WLAN	8.30	±9.6
10717	AAC	ET40, MCS10 (259.0 Mbps), 99.8% DC	WLAN	8.48	±9.6
10718	AAC	ET40, MCS11 (267.0 Mbps), 99.8% DC	WLAN	8.24	±9.6
10719	AAC	ET80, MCS0 (36.0 Mbps), 99.0% DC	WLAN	8.81	±9.6
10720	AAC	ET80, MCS1 (72.1 Mbps), 99.0% DC	WLAN	8.87	±9.6
10721	AAC	ET80, MCS2 (108.1 Mbps), 99.0% DC	WLAN	8.76	±9.6
10722	AAC	ET80, MCS3 (144.1 Mbps), 99.0% DC	WLAN	8.55	±9.6
10723	AAC	ET80, MCS4 (216.2 Mbps), 99.0% DC	WLAN	8.70	±9.6
10724	AAC	ET80, MCS5 (288.2 Mbps), 99.0% DC	WLAN	8.90	±9.6
10725	AAC	ET80, MCS6 (324.4 Mbps), 99.0% DC	WLAN	8.74	±9.6
10726	AAC	ET80, MCS7 (360.3 Mbps), 99.0% DC	WLAN	8.72	±9.6
10727	AAC	ET80, MCS8 (432.4 Mbps), 99.0% DC	WLAN	8.66	±9.6
10728	AAC	ET80, MCS9 (480.4 Mbps), 99.0% DC	WLAN	8.65	±9.6
10729	AAC	ET80, MCS10 (540.4 Mbps), 99.0% DC	WLAN	8.64	±9.6
10730	AAC	ET80, MCS11 (720.4 Mbps), 99.0% DC	WLAN	8.67	±9.6
10731	AAC	ET80, MCS0 (36.0 Mbps), 100.0% DC	WLAN	8.42	±9.6
10732	AAC	ET80, MCS1 (72.1 Mbps), 100.0% DC	WLAN	8.46	±9.6
10733	AAC	ET80, MCS2 (108.1 Mbps), 100.0% DC	WLAN	8.40	±9.6
10734	AAC	ET80, MCS3 (144.1 Mbps), 100.0% DC	WLAN	8.25	±9.6
10735	AAC	ET80, MCS4 (216.2 Mbps), 100.0% DC	WLAN	8.33	±9.6
10736	AAC	ET80, MCS5 (288.2 Mbps), 100.0% DC	WLAN	8.27	±9.6
10737	AAC	ET80, MCS6 (324.4 Mbps), 100.0% DC	WLAN	8.38	±9.6
10738	AAC	ET80, MCS7 (360.3 Mbps), 100.0% DC	WLAN	8.42	±9.6
10739	AAC	ET80, MCS8 (432.4 Mbps), 100.0% DC	WLAN	8.29	±9.6
10740	AAC	ET80, MCS9 (480.4 Mbps), 100.0% DC	WLAN	8.48	±9.6
10741	AAC	ET80, MCS10 (540.4 Mbps), 100.0% DC	WLAN	8.40	±9.6
10742	AAC	ET80, MCS11 (720.4 Mbps), 100.0% DC	WLAN	8.43	±9.6
10743	AAC	ET160, MCS0 (72.0 Mbps), 88.2% DC	WLAN	8.94	±9.6
10744	AAC	ET160, MCS1 (144.0 Mbps), 87.1% DC	WLAN	9.16	±9.6
10745	AAC	ET160, MCS2 (216.0 Mbps), 87.4% DC	WLAN	8.93	±9.6
10746	AAC	ET160, MCS3 (288.0 Mbps), 87.1% DC	WLAN	9.11	±9.6
10747	AAC	ET160, MCS4 (432.0 Mbps), 87.4% DC	WLAN	9.04	±9.6
10748	AAC	ET160, MCS5 (576.0 Mbps), 86.8% DC	WLAN	8.93	±9.6
10749	AAC	ET160, MCS6 (648.0 Mbps), 85.7% DC	WLAN	8.90	±9.6
10750	AAC	ET160, MCS7 (721.0 Mbps), 86.7% DC	WLAN	8.79	±9.6
10751	AAC	ET160, MCS8 (865.0 Mbps), 86.3% DC	WLAN	8.82	±9.6
10752	AAC	ET160, MCS9 (961.0 Mbps), 85.3% DC	WLAN	8.81	±9.6
10753	AAC	ET160, MCS10 (1081.0 Mbps), 86.7% DC	WLAN	9.00	±9.6
10754	AAC	ET160, MCS11 (1201.0 Mbps), 86.7% DC	WLAN	8.94	±9.6
10755	AAC	ET160, MCS0 (72.0 Mbps), 98.0% DC	WLAN	8.64	±9.6
10756	AAC	ET160, MCS1 (144.0 Mbps), 95.8% DC	WLAN	8.77	±9.6
10757	AAC	ET160, MCS2 (216.0 Mbps), 97.1% DC	WLAN	8.77	±9.6
10758	AAC	ET160, MCS3 (288.0 Mbps), 96.8% DC	WLAN	8.69	±9.6
10759	AAC	ET160, MCS4 (432.0 Mbps), 97.1% DC	WLAN	8.58	±9.6
10760	AAC	ET160, MCS5 (576.0 Mbps), 96.5% DC	WLAN	8.49	±9.6
10761	AAC	ET160, MCS6 (648.0 Mbps), 96.3% DC	WLAN	8.58	±9.6
10762	AAC	ET160, MCS7 (721.0 Mbps), 96.3% DC	WLAN	8.49	±9.6
10763	AAC	ET160, MCS8 (865.0 Mbps), 85.9% DC	WLAN	8.53	±9.6
10764	AAC	ET160, MCS9 (961.0 Mbps), 85.9% DC	WLAN	8.54	±9.6
10765	AAC	ET160, MCS10 (1081.0 Mbps), 96.3% DC	WLAN	8.54	±9.6
10766	AAC	ET160, MCS11 (1201.0 Mbps), 96.3% DC	WLAN	8.51	±9.6
10767	AAG	CP-OFDM, 5.0 MHz, QPSK, 15 kHz, 99.9% DC, 1 RB	5G NR FR1 TDD	7.99	±9.6
10768	AAG	CP-OFDM, 10.0 MHz, QPSK, 15 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	8.01	±9.6
10769	AAG	CP-OFDM, 15.0 MHz, QPSK, 15 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	8.01	±9.6
10770	AAG	CP-OFDM, 20.0 MHz, QPSK, 15 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	8.02	±9.6
10771	AAG	CP-OFDM, 25.0 MHz, QPSK, 15 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	8.02	±9.6
10772	AAG	CP-OFDM, 30.0 MHz, QPSK, 15 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	8.23	±9.6

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10773	AAF	CP-OFDM, 40.0 MHz, QPSK, 15 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	8.03	±9.6
10774	AAE	CP-OFDM, 50.0 MHz, QPSK, 15 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	8.02	±9.6
10775	AAF	CP-OFDM, 5.0 MHz, QPSK, 15 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.31	±9.6
10776	AAE	CP-OFDM, 10.0 MHz, QPSK, 15 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.30	±9.6
10777	AAE	CP-OFDM, 15.0 MHz, QPSK, 15 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.30	±9.6
10778	AAE	CP-OFDM, 20.0 MHz, QPSK, 15 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.34	±9.6
10779	AAE	CP-OFDM, 25.0 MHz, QPSK, 15 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.42	±9.6
10780	AAE	CP-OFDM, 30.0 MHz, QPSK, 15 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.38	±9.6
10781	AAF	CP-OFDM, 40.0 MHz, QPSK, 15 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.38	±9.6
10782	AAE	CP-OFDM, 50.0 MHz, QPSK, 15 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.43	±9.6
10783	AAG	CP-OFDM, 5.0 MHz, QPSK, 15 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.31	±9.6
10784	AAE	CP-OFDM, 10.0 MHz, QPSK, 15 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.29	±9.6
10785	AAD	CP-OFDM, 15.0 MHz, QPSK, 15 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.40	±9.6
10786	AAE	CP-OFDM, 20.0 MHz, QPSK, 15 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.35	±9.6
10787	AAD	CP-OFDM, 25.0 MHz, QPSK, 15 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.44	±9.6
10788	AAE	CP-OFDM, 30.0 MHz, QPSK, 15 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.39	±9.6
10789	AAF	CP-OFDM, 40.0 MHz, QPSK, 15 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.37	±9.6
10790	AAE	CP-OFDM, 50.0 MHz, QPSK, 15 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.39	±9.6
10791	AAG	CP-OFDM, 5.0 MHz, QPSK, 30 kHz, 99.9% DC, 1 RB	5G NR FR1 TDD	7.93	±9.6
10792	AAE	CP-OFDM, 10.0 MHz, QPSK, 30 kHz, 99.9% DC, 1 RB	5G NR FR1 TDD	7.92	±9.6
10793	AAD	CP-OFDM, 15.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.95	±9.6
10794	AAE	CP-OFDM, 20.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.82	±9.6
10795	AAD	CP-OFDM, 25.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.84	±9.6
10796	AAE	CP-OFDM, 30.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.82	±9.6
10797	AAF	CP-OFDM, 40.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	8.01	±9.6
10798	AAE	CP-OFDM, 50.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.89	±9.6
10799	AAF	CP-OFDM, 60.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.93	±9.6
10800	AAF	CP-OFDM, 80.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.89	±9.6
10802	AAE	CP-OFDM, 90.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.87	±9.6
10803	AAF	CP-OFDM, 100.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.93	±9.6
10805	AAE	CP-OFDM, 10.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.34	±9.6
10806	AAD	CP-OFDM, 15.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.37	±9.6
10809	AAE	CP-OFDM, 30.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.34	±9.6
10810	AAF	CP-OFDM, 40.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.34	±9.6
10812	AAF	CP-OFDM, 60.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.35	±9.6
10817	AAG	CP-OFDM, 5.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.35	±9.6
10818	AAE	CP-OFDM, 10.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.34	±9.6
10819	AAD	CP-OFDM, 15.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.33	±9.6
10820	AAE	CP-OFDM, 20.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.30	±9.6
10821	AAD	CP-OFDM, 25.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.41	±9.6
10822	AAE	CP-OFDM, 30.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.41	±9.6
10823	AAF	CP-OFDM, 40.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.36	±9.6
10824	AAE	CP-OFDM, 50.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.39	±9.6
10825	AAF	CP-OFDM, 60.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.41	±9.6
10827	AAF	CP-OFDM, 80.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.42	±9.6
10828	AAE	CP-OFDM, 90.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.43	±9.6
10829	AAF	CP-OFDM, 100.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.40	±9.6
10830	AAE	CP-OFDM, 10.0 MHz, QPSK, 60 kHz, 99.9% DC, 1 RB	5G NR FR1 TDD	7.63	±9.6
10831	AAD	CP-OFDM, 15.0 MHz, QPSK, 60 kHz, 99.9% DC, 1 RB	5G NR FR1 TDD	7.73	±9.6
10832	AAE	CP-OFDM, 20.0 MHz, QPSK, 60 kHz, 99.9% DC, 1 RB	5G NR FR1 TDD	7.74	±9.6
10833	AAD	CP-OFDM, 25.0 MHz, QPSK, 60 kHz, 99.9% DC, 1 RB	5G NR FR1 TDD	7.70	±9.6
10834	AAE	CP-OFDM, 30.0 MHz, QPSK, 60 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.75	±9.6
10835	AAF	CP-OFDM, 40.0 MHz, QPSK, 60 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.70	±9.6
10836	AAE	CP-OFDM, 50.0 MHz, QPSK, 60 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.66	±9.6
10837	AAF	CP-OFDM, 60.0 MHz, QPSK, 60 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.68	±9.6
10839	AAF	CP-OFDM, 80.0 MHz, QPSK, 60 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.70	±9.6
10840	AAE	CP-OFDM, 90.0 MHz, QPSK, 60 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.67	±9.6
10841	AAF	CP-OFDM, 100.0 MHz, QPSK, 60 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	7.71	±9.6
10843	AAD	CP-OFDM, 15.0 MHz, QPSK, 60 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.49	±9.6
10844	AAE	CP-OFDM, 20.0 MHz, QPSK, 60 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.34	±9.6
10846	AAE	CP-OFDM, 30.0 MHz, QPSK, 60 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	8.41	±9.6
10854	AAE	CP-OFDM, 10.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.34	±9.6
10855	AAD	CP-OFDM, 15.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.36	±9.6
10856	AAE	CP-OFDM, 20.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.37	±9.6
10857	AAD	CP-OFDM, 25.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.35	±9.6
10858	AAE	CP-OFDM, 30.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.36	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10859	AAF	CP-OFDM, 40.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.34	±9.6
10860	AAE	CP-OFDM, 50.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.41	±9.6
10861	AAF	CP-OFDM, 60.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.40	±9.6
10863	AAF	CP-OFDM, 80.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.41	±9.6
10864	AAE	CP-OFDM, 90.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.37	±9.6
10865	AAF	CP-OFDM, 100.0 MHz, QPSK, 60 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	8.41	±9.6
10866	AAF	DFT-s-OFDM, 100.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	5.88	±9.6
10868	AAF	DFT-s-OFDM, 100.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.89	±9.6
10869	AAE	DFT-s-OFDM, 100.0 MHz, QPSK, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	5.75	±9.6
10870	AAE	DFT-s-OFDM, 100.0 MHz, QPSK, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	5.86	±9.6
10871	AAE	DFT-s-OFDM, 100.0 MHz, 16QAM, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	5.75	±9.6
10872	AAE	DFT-s-OFDM, 100.0 MHz, 16QAM, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	5.82	±9.6
10873	AAE	DFT-s-OFDM, 100.0 MHz, 64QAM, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	5.61	±9.6
10874	AAE	DFT-s-OFDM, 100.0 MHz, 64QAM, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	5.65	±9.6
10875	AAE	CP-OFDM, 100.0 MHz, QPSK, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	7.78	±9.6
10876	AAE	CP-OFDM, 100.0 MHz, QPSK, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	8.39	±9.6
10877	AAE	CP-OFDM, 100.0 MHz, 16QAM, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	7.95	±9.6
10878	AAE	CP-OFDM, 100.0 MHz, 16QAM, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	8.41	±9.6
10879	AAE	CP-OFDM, 100.0 MHz, 64QAM, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	8.12	±9.6
10880	AAE	CP-OFDM, 100.0 MHz, 64QAM, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	8.38	±9.6
10881	AAE	DFT-s-OFDM, 50.0 MHz, QPSK, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	5.75	±9.6
10882	AAE	DFT-s-OFDM, 50.0 MHz, QPSK, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	5.98	±9.6
10883	AAE	DFT-s-OFDM, 50.0 MHz, 16QAM, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	6.57	±9.6
10884	AAE	DFT-s-OFDM, 50.0 MHz, 16QAM, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	6.53	±9.6
10885	AAE	DFT-s-OFDM, 50.0 MHz, 64QAM, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	6.61	±9.6
10886	AAE	DFT-s-OFDM, 50.0 MHz, 64QAM, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	6.65	±9.6
10887	AAE	CP-OFDM, 50.0 MHz, QPSK, 120 kHz, 99.9% DC, 1 RB	5G NR FR2 TDD	7.78	±9.6
10888	AAE	CP-OFDM, 50.0 MHz, QPSK, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	8.35	±9.6
10889	AAE	CP-OFDM, 50.0 MHz, 16QAM, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	8.02	±9.6
10890	AAE	CP-OFDM, 50.0 MHz, 16QAM, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	8.40	±9.6
10891	AAE	CP-OFDM, 50.0 MHz, 64QAM, 120 kHz, 100.0% DC, 1 RB	5G NR FR2 TDD	8.13	±9.6
10892	AAE	CP-OFDM, 50.0 MHz, 64QAM, 120 kHz, 100.0% DC, 100% RB	5G NR FR2 TDD	8.41	±9.6
10897	AAE	DFT-s-OFDM, 5.0 MHz, QPSK, 30 kHz, 99.9% DC, 1 RB	5G NR FR1 TDD	5.66	±9.6
10898	AAC	DFT-s-OFDM, 10.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	5.67	±9.6
10899	AAB	DFT-s-OFDM, 15.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	5.67	±9.6
10900	AAC	DFT-s-OFDM, 20.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	5.68	±9.6
10901	AAB	DFT-s-OFDM, 25.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	5.68	±9.6
10902	AAC	DFT-s-OFDM, 30.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	5.68	±9.6
10903	AAD	DFT-s-OFDM, 40.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	5.68	±9.6
10904	AAC	DFT-s-OFDM, 50.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	5.68	±9.6
10905	AAD	DFT-s-OFDM, 60.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	5.68	±9.6
10906	AAD	DFT-s-OFDM, 60.0 MHz, QPSK, 30 kHz, 100.0% DC, 1 RB	5G NR FR1 TDD	5.68	±9.6
10907	AAE	DFT-s-OFDM, 5.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.78	±9.6
10908	AAC	DFT-s-OFDM, 10.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.93	±9.6
10909	AAB	DFT-s-OFDM, 15.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.96	±9.6
10910	AAC	DFT-s-OFDM, 20.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.93	±9.6
10911	AAB	DFT-s-OFDM, 25.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.93	±9.6
10912	AAC	DFT-s-OFDM, 30.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.94	±9.6
10913	AAD	DFT-s-OFDM, 40.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.94	±9.6
10914	AAC	DFT-s-OFDM, 50.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.95	±9.6
10915	AAD	DFT-s-OFDM, 60.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.93	±9.6
10916	AAD	DFT-s-OFDM, 80.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.97	±9.6
10917	AAD	DFT-s-OFDM, 100.0 MHz, QPSK, 30 kHz, 100.0% DC, 50% RB	5G NR FR1 TDD	5.94	±9.6
10918	AAE	DFT-s-OFDM, 5.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.86	±9.6
10919	AAE	DFT-s-OFDM, 10.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.86	±9.6
10920	AAB	DFT-s-OFDM, 15.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.87	±9.6
10921	AAC	DFT-s-OFDM, 20.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.84	±9.6
10922	AAB	DFT-s-OFDM, 25.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.82	±9.6
10923	AAC	DFT-s-OFDM, 30.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.84	±9.6
10924	AAD	DFT-s-OFDM, 40.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.84	±9.6
10925	AAC	DFT-s-OFDM, 50.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.95	±9.6
10926	AAD	DFT-s-OFDM, 60.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.84	±9.6
10927	AAD	DFT-s-OFDM, 80.0 MHz, QPSK, 30 kHz, 100.0% DC, 100% RB	5G NR FR1 TDD	5.94	±9.6
10928	AAD	DFT-s-OFDM, 5.0 MHz, QPSK, 15 kHz, 1 RB	5G NR FR1 FDD	5.52	±9.6
10929	AAD	DFT-s-OFDM, 10.0 MHz, QPSK, 15 kHz, 1 RB	5G NR FR1 FDD	5.52	±9.6
10930	AAC	DFT-s-OFDM, 15.0 MHz, QPSK, 15 kHz, 1 RB	5G NR FR1 FDD	5.52	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10931	AAC	DFT-s-OFDM, 20.0 MHz, QPSK, 15 kHz, 1 RB	5G NR FR1 FDD	5.51	±9.6
10932	AAC	DFT-s-OFDM, 25.0 MHz, QPSK, 15 kHz, 1 RB	5G NR FR1 FDD	5.51	±9.6
10933	AAC	DFT-s-OFDM, 30.0 MHz, QPSK, 15 kHz, 1 RB	5G NR FR1 FDD	5.51	±9.6
10934	AAC	DFT-s-OFDM, 40.0 MHz, QPSK, 15 kHz, 1 RB	5G NR FR1 FDD	5.51	±9.6
10935	AAD	DFT-s-OFDM, 50.0 MHz, QPSK, 15 kHz, 1 RB	5G NR FR1 FDD	5.51	±9.6
10936	AAD	DFT-s-OFDM, 5.0 MHz, QPSK, 15 kHz, 50% RB	5G NR FR1 FDD	5.90	±9.6
10937	AAD	DFT-s-OFDM, 10.0 MHz, QPSK, 15 kHz, 50% RB	5G NR FR1 FDD	5.77	±9.6
10938	AAC	DFT-s-OFDM, 15.0 MHz, QPSK, 15 kHz, 50% RB	5G NR FR1 FDD	5.90	±9.6
10939	AAC	DFT-s-OFDM, 20.0 MHz, QPSK, 15 kHz, 50% RB	5G NR FR1 FDD	5.82	±9.6
10940	AAC	DFT-s-OFDM, 25.0 MHz, QPSK, 15 kHz, 50% RB	5G NR FR1 FDD	5.89	±9.6
10941	AAC	DFT-s-OFDM, 30.0 MHz, QPSK, 15 kHz, 50% RB	5G NR FR1 FDD	5.83	±9.6
10942	AAC	DFT-s-OFDM, 40.0 MHz, QPSK, 15 kHz, 50% RB	5G NR FR1 FDD	5.85	±9.6
10943	AAD	DFT-s-OFDM, 50.0 MHz, QPSK, 15 kHz, 50% RB	5G NR FR1 FDD	5.95	±9.6
10944	AAD	DFT-s-OFDM, 5.0 MHz, QPSK, 15 kHz, 100% RB	5G NR FR1 FDD	5.81	±9.6
10945	AAD	DFT-s-OFDM, 10.0 MHz, QPSK, 15 kHz, 100% RB	5G NR FR1 FDD	5.85	±9.6
10946	AAC	DFT-s-OFDM, 15.0 MHz, QPSK, 15 kHz, 100% RB	5G NR FR1 FDD	5.83	±9.6
10947	AAC	DFT-s-OFDM, 20.0 MHz, QPSK, 15 kHz, 100% RB	5G NR FR1 FDD	5.87	±9.6
10948	AAC	DFT-s-OFDM, 25.0 MHz, QPSK, 15 kHz, 100% RB	5G NR FR1 FDD	5.94	±9.6
10949	AAC	DFT-s-OFDM, 30.0 MHz, QPSK, 15 kHz, 100% RB	5G NR FR1 FDD	5.87	±9.6
10950	AAC	DFT-s-OFDM, 40.0 MHz, QPSK, 15 kHz, 100% RB	5G NR FR1 FDD	5.94	±9.6
10951	AAD	DFT-s-OFDM, 50.0 MHz, QPSK, 15 kHz, 100% RB	5G NR FR1 FDD	5.92	±9.6
10978	AAA	BDR, 1.0 MHz, 76.7% DC	ULLA	1.16	±9.6
10979	AAA	HDR4, 2.0 MHz, 25.1% DC	ULLA	8.58	±9.6
10980	AAA	HDR8, 4.0 MHz, 16.5% DC	ULLA	10.32	±9.6
10981	AAA	HDRp4, 2.0 MHz, 89.0% DC	ULLA	3.19	±9.6
10982	AAA	HDRp8, 4.0 MHz, 90.3% DC	ULLA	3.43	±9.6
11013	AAB	EHT320, MCS1 (272.0 Mbps), 100.0% DC	WLAN	8.47	±9.6
11014	AAB	EHT320, MCS2 (406.0 Mbps), 100.0% DC	WLAN	8.45	±9.6
11015	AAB	EHT320, MCS3 (544.0 Mbps), 100.0% DC	WLAN	8.44	±9.6
11016	AAB	EHT320, MCS4 (817.0 Mbps), 100.0% DC	WLAN	8.44	±9.6
11017	AAB	EHT320, MCS5 (1089.0 Mbps), 100.0% DC	WLAN	8.41	±9.6
11018	AAB	EHT320, MCS6 (1225.0 Mbps), 100.0% DC	WLAN	8.40	±9.6
11019	AAB	EHT320, MCS7 (1361.0 Mbps), 100.0% DC	WLAN	8.29	±9.6
11020	AAB	EHT320, MCS8 (1633.0 Mbps), 100.0% DC	WLAN	8.27	±9.6
11021	AAB	EHT320, MCS9 (1815.0 Mbps), 100.0% DC	WLAN	8.46	±9.6
11022	AAB	EHT320, MCS10 (2042.0 Mbps), 100.0% DC	WLAN	8.36	±9.6
11023	AAB	EHT320, MCS11 (2269.0 Mbps), 100.0% DC	WLAN	8.09	±9.6
11024	AAB	EHT320, MCS12 (2450.0 Mbps), 100.0% DC	WLAN	8.42	±9.6
11025	AAB	EHT320, MCS13 (2722.0 Mbps), 100.0% DC	WLAN	8.37	±9.6
11026	AAB	EHT320, MCS90 (136.0 Mbps), 100.0% DC	WLAN	8.39	±9.6

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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CALIBRATION
CNAS L0570

Client: **CVC Testing Technology (Shenzhen) Co., Ltd.**

Certificate No: **25J02Z000549**

CALIBRATION CERTIFICATE

Object: **DAE4 - SN: 1725**

Calibration Procedure(s): **FF-Z11-002-01**
Calibration Procedure for the Data Acquisition Electronics (DAEx)

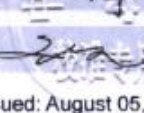
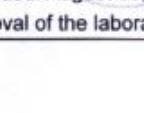
Calibration date: **July 30, 2025**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)℃ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Process Calibrator 753	1971018	11-Jun-25 (CTTL, No.25J02X004977)	Jun-26

	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	
Reviewed by:	Lin Jun	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: August 05, 2025

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



In Collaboration with
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CALIBRATION LABORATORY



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Glossary:

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters:

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.



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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1μV, full range = -100...+300 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.829 ± 0.15% (k=2)	404.664 ± 0.15% (k=2)	404.472 ± 0.15% (k=2)
Low Range	3.98050 ± 0.7% (k=2)	3.98320 ± 0.7% (k=2)	3.98267 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	165° ± 1 °
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