

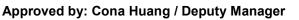
# **RF Exposure Report**

FCC ID	: IHDT56AP9
Equipment	: Mobile Cellular Phone
<b>Brand Name</b>	: Motorola
Model Name	: XT2451-1, XT2451-2
Applicant	: Motorola Mobility LLC 222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacture	<sup>:</sup> Motorola Mobility LLC
	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Standard	: FCC 47 CFR Part 2.1093

The product was received on Feb. 16, 2024 and testing was started from Feb. 28, 2024 and completed on Feb. 28, 2024. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and has been pass the FCC requirement.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.

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### **Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA420727	Rev. 01	Initial issue of report	Mar. 20, 2024

# 1. Description of Equipment Under Test (EUT)

	Product Feature & Specification						
FCC ID	IHDT56AP9						
Equipment	quipment Mobile Cellular Phone						
Brand Name	Motorola						
Model Name	XT2451-1, XT2451-2						
Frequency Range	115Khz~145Khz						
Mode	ASK						

# 2. <u>RF Exposure Limit</u>

### <Limits for Maximum Permissible Exposure>

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
	(A) Limits for C	Occupational/Controlled Expos	ure	2
0.3-3.0	614	1.63	* 100	6
3.0-30	1842/f	4.89/f	* 900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
	(B) Limits for Gene	eral Population/Uncontrolled Ex	posure	
0.3-1.34	614	1.63	* 100	30
1.34-30	824/f	2.19/f	* 180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500	-		f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz

\* = Plane-wave equivalent power density

(1) Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure. The phrase fully aware in the context of applying these exposure limits means that an exposed person has received written and/or verbal information fully explaining the potential for RF exposure resulting from his or her employment. With the exception of transient persons, this phrase also means that an exposed person has received written and/or verbal information fully explaining the potential is not required for transient persons, but they must receive written and/or verbal information and notification (for example, using signs) concerning their exposure potential and appropriate means available to mitigate their exposure. The phrase exercise control means that an exposed person is allowed to and knows how to reduce or avoid exposure by administrative or engineering controls and work practices, such as use of personal protective equipment or time averaging of exposure.

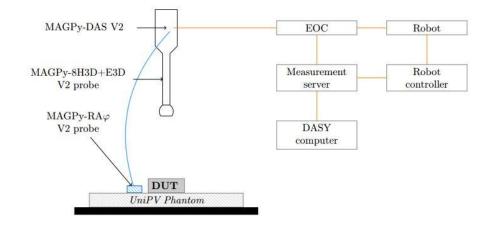
(2) General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

#### <Limit for peak spatial-average SAR>

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatialaverage SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.



### 3. System Description and Setup



#### General Note:

- 1. DASY8 Module WPT is a special solution for high precision evaluations in the laboratory. The precision is achieved by combining the MAGPy system with the DASY robotics system and Sim4Life simulation platform. It is the fist and only fully automated system for demonstrating compliance of WPT devices.
- 2. The setup figure shows a typical setup for the measurements with DASY8 Module WPT. The MAGPy-8H3D+E3D V2 probe with MAGPy-DAS V2 is mounted on a TX-90 or TX2-90 robot allowing to scan volumes as large as 2000 × 1000 × 1500 mm with a precision of ±0.2 mm. In any distance the H-fild distributions can be analyzed directly and the values are compared to the reference level, or they are converted into Maxwell fild and used as excitations for determining the basic restriction quantities for further dosimetric analysis with the Magneto Quasi-Static (MQS) solver. This specifi solution is optimized for evaluation of H-field sources (3kHz–10MHz) and demonstration of compliance (3KHz–4 MHz)
- 3. Sicne the DASY8 Module WPT system alternatively, curve-tting techniques may be used to estimate the field value(s) at dsep based on measurements taken at larger distances. The test equipment permits the estimation of fields at 0mm separation distance based on measurements near the surface; Maxwell total field reconstruction is employed.
- 4. The DASY8 Module WPT with MAGPy-8H3D+E3D V2 Probe is capable of measuring the H-fild in frequency and time-domain in the frequency band from 3 kHz to 10 MHz, covering a dynamic range from 0.1 to >3100 A/m.
- 5. The DASY8 Module WPT provides the relation between an externally applied H-field to each of the three sensors and the corresponding ADC reading over the frequency range from 3 kHz to 10 MHz. The frequency-dependent adjustment factors are used to determine the incident measured H-fild from an ADC reading. For the frequency range from 1 to 10 MHz, the adjustment factors are applied with filte impulse response (FIR) fiters directly inside the MAGPy-8H3D+E3D V2 in time-domain and frequencies <1 MHz in the frequency domain in the PC-based post-processing software.</p>
- 6. In summary, this system of DASY8 Module WPT with MAGPy-8H3D+E3D V2 Probe fully meets the probe requirements of RSS-102.NS.MEAS

### Probe Spec

The MAGPy-8H3D+E3D V2 probe consists of eight isotropic H-field sensors and one isotropic E-field sensor: Probe design: • Probe length: 335 mm • Probe tip diameter: 60 mm

- 8H3D: eight isotropic 1 cm3-H-field sensors, arranged at the corners of a 22 mm cube
- $\cdot$  First isotropic H-field sensor plane: 7.5 mm from the tip
- $\cdot$  E3D: one isotropic E-field sensor (dipole / monopole)
- Sensor specifications:
- Frequency range: 3 kHz 10 MHz
- $\cdot$  H-field dynamic range: 0.1 A/m 3200 A/m (0.12  $\mu T$  4 mT)
- $\cdot$  H-field extrapolation uncertainty: 0.6 dB (k = 2)
- · E-field dynamic range: 0.08 V/m 2000 V/m



#### Compliance Evaluation

DASY8 Module WPT SW version V2.2 offers compliance evaluation with respect to:

- Reference levels on the basis of the incident H- and E-fields measured from the volume scan
- Basic restrictions on the basis of the peak induced E-field, peak induced current density, and

peak spatial-average SAR calculated from the Sim4Life simulation.

Since SPEAG release a DASY8 Module WPT system (*SW Module WPT V2.2*) for E and H-Field measurement, and also the system support Sim4Life plug-in includes the components to import the 3D H-fild scan data (Hx, Hy, Hz values in the measurement volume) to the Sim4Life simulation platform. And a magneto quasi-static (MQS) simulation is automatically setup to solve for a lossy halfspace Phantom setup. The lossy half-space has muscle tissue dielectric properties ( $\sigma$  = 0.75 S/m,  $\rho$  = 1000 kg/m3,), The induced electric (E-) fields and **specific absorption rate (SAR)** are assessed with Sim4Life's Quasi-Static EM Solver (P-EM-QS) using only the measured data.

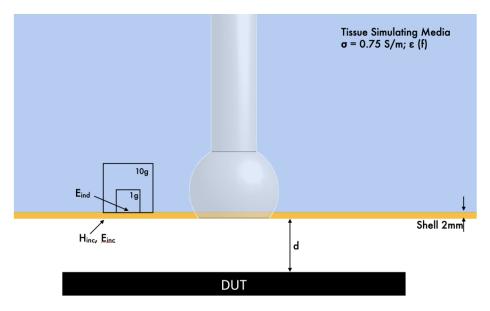
The post-processing engine determines the maximum induced E-field, current density, and SAR values in a homogeneous half-space of muscle tissue equivalent media (half-space muscle phantom) positioned at the compliance distance. In general, the compliance distance corresponds to the closest point (with respect to the exposure source) the human body (e.g., a part of the hand) can reach during the operation of the source.

The relative dielectric constant, conductivity, and mass density of the homogeneous phantom used in the simulations were 55, 0.75 S/m, and 1000 kg/m3 respectively, which correspond to the phantom.





#### • Simulation Results



The distance used in the test raw data for simulation and compliance evaluation results is defined as the spacing between the top surface of the DUT and the bottom surface of the fictive phantom shell (with a thickness of 2 mm). In this case, the evaluation is made at distance d. Typically d = 0, i.e., at the DUT surface. The evaluation locations of the incident fields (i.e., Hinc and Einc) as well as the induced fields (e.g., Eind, psSAR1g, and psSAR10g) are also illustrated.

# 4. Equipment List

Manufacturer	Name of Equipment	Type/Medal	Serial	Calibration		
Manufacturer	Name of Equipment	ment Type/Model Number		Last Cal.	Due Date	
SPEAG	Magnetic Apmlitude and Gradient Probe	MAGPy-8H3D-E3D	3059	Apr. 12, 2023	Apr. 11, 2024	
SPEAG	Magnetic Apmlitude and Gradient Data Acquisition System	MAGPy-DAS	3064	Apr. 12, 2023	Apr. 11, 2024	
SPEAG	System Check and Validation Sources	V-Coil350/85V2.0	1023	May 16, 2023	May 15, 2024	

# 5. System Validiation

SPEAG developed the evaluation system DASY8 Module WPT for small-to-large size wireless power transfer (WPT) devices that combines subsystems of DASY8, MAGPy, and Sim4Life. The IT'IS Foundation was mandated to develop the system check and validation sources for WPT evaluations.

Below table shows the target value and measured value after normalized to 1A and comparing to the Target value provided by SPEAG calibration, the verification data should be within its specification of 1.24dB.

					Raw Measurements	s							
Test Date	Calibrated Parameters (kHz)	Distance of the Virtual Phantom from the Surface (mm)	Peak H-field (A/m)	Peak H-field (A/m)	Induced peak current density 1cm^2 area	Induced peak E-field (V/m)		peak spatial SAR (mW/kg)					
					avg.(A/m^2)	cube avg.	line avg.	1g avg.	10g avg.				
			Target	183	1.08	3.24	3.27	2.9	2.11				
			Raw Measurement	183	1.1	3.32	3.28	3.05	2.35				
				•	Scaled to 1A currer	nt							
			Peak H-field (A/m)	k H-field Peak H-field current de (A/m) (A/m) 1cm^2 a		A/m) (A/m) 1cm^2 area		-field Peak H-field current density (V/m) n) (A/m) 1cm^2 area				d peak spatial SAR (mW/kg)	
					avg.(A/m^2) cube avg.	line avg.	1g avg.	10g avg.					
2024/2/28	85	2	Target	232.29	1.37	4.11	4.15	4.61	3.35				
			Raw Measurement	232.29	1.40	4.21	4.16	4.84	3.73				
				•	Deviation (dB)								
				Peak H-field (A/m)	Induced peak current density 1cm^2 area avg.(A/m^2)	Induced pe (V/			atial SAR V/kg)				
					uvg.(////11/2)	cube avg.	line avg.	1g avg.	10g avg.				
				0.00	0.08	0.11	0.01	0.22	0.47				



## 6. <u>RF Exposure Results</u>

#### General Note:

- 1. For WPT evaluation was performed with client with < 15% battery state, equal 50% and > 85% battery state will verify worst configuration found from 15% state.
- 2. Consider the clinet device in charging and user is using phone, for RF exposure was performed at 0mm separation distance.
- 3. Since this is a foldable phone, and wireless charging can also be turned on when folded, RF exposure will select the worst position when not folded for folding verification.

### 6.1. Maximum Permissible Exposure Evaluation

### **Electric field Strength Result**

Plot No.	Position	Test Distance (mm)	Client Battery State	Measured Einc (V/m)	Einc Limit (V/m)	Result
	Front	0	< 15%	3.23	614	Pass
	Back	0	< 15%	3.5	614	Pass
	Left Side	0	< 15%	1.61	614	Pass
	Right Side	0	< 15%	0.815	614	Pass
	Top Side	0	< 15%	11.3	614	Pass
	Bottom Side	0	< 15%	1.23	614	Pass
	Top Side	0	= 50%	11.1	614	Pass
	Left Side	0	= 50%	1.55	614	Pass
	Top Side	0	> 85%	11	614	Pass
	Left Side	0	> 85%	1.52	614	Pass
	Top Side_client phone lid be closed	0	< 15%	1.04	614	Pass
	Left Side_client phone lid be closed	0	< 15%	2.94	614	Pass
1	Flip_Front	0	< 15%	52.9	614	Pass
	Flip_Back	0	< 15%	45.9	614	Pass
	Flip_Left Side	0	< 15%	1.85	614	Pass
	Flip_Right Side	0	< 15%	1.38	614	Pass
	Flip_Top Side	0	< 15%	2.08	614	Pass
	Flip_Bottom Side	0	< 15%	1.98	614	Pass
	Flip_Front	0	= 50%	49.45	614	Pass
	Flip_Right Side	0	= 50%	1.19	614	Pass
	Flip_Front	0	> 85%	51.55	614	Pass
	Flip_Right Side	0	> 85%	1.25	614	Pass



### Magnetic field Strength Result

Plot No.	Position	Test Distance (mm)	Client Battery State	Measured Hinc (A/m)	Hinc Limit (A/m)	Result
	Front	0	< 15%	2.86	1.63	Exceed <sup>(1)</sup>
	Back	0	< 15%	2.78	1.63	Exceed <sup>(1)</sup>
2	Left Side	0	< 15%	5.85	1.63	Exceed <sup>(1)</sup>
	Right Side	0	< 15%	4.5	1.63	Exceed <sup>(1)</sup>
	Top Side	0	< 15%	0.0207	1.63	Pass
	Bottom Side	0	< 15%	1.53	1.63	Pass
	Top Side	0	= 50%	0.0199	1.63	Pass
	Left Side	0	= 50%	5.79	1.63	Exceed <sup>(1)</sup>
	Top Side	0	> 85%	0.0196	1.63	Pass
	Left Side	0	> 85%	5.76	1.63	Exceed <sup>(1)</sup>
	Top Side_client phone lid be closed	0	< 15%	0.0199	1.63	Pass
	Left Side_client phone lid be closed	0	< 15%	5.77	1.63	Exceed <sup>(1)</sup>
	Flip_Front	0	< 15%	0.787	1.63	Pass
	Flip_Back	0	< 15%	0.434	1.63	Pass
	Flip_Left Side	0	< 15%	4.36	1.63	Exceed <sup>(1)</sup>
	Flip_Right Side	0	< 15%	4.45	1.63	Exceed <sup>(1)</sup>
	Flip_Top Side	0	< 15%	0.288	1.63	Pass
	Flip_Bottom Side	0	< 15%	1.74	1.63	Exceed <sup>(1)</sup>
	Flip_Front	0	= 50%	0.724	1.63	Pass
	Flip_Right Side	0	= 50%	4.31	1.63	Exceed <sup>(1)</sup>
	Flip_Front	0	> 85%	0.678	1.63	Pass
	Flip_Right Side	0	> 85%	3.79	1.63	Exceed <sup>(1)</sup>

1. An assessment against the Limit for peak spatial-average SAR shall be performed for the EUT when the Limits for Maximum Permissible Exposure are exceeded.



### 6.2. Peak Spatial-Average SAR Evaluation

#### Peak spatial-average SAR Result

Plot No.	Position	Test Distance (mm)	Client Battery State	Measured 1g avg. (W/kg)	1g Limit (W/kg)	Result
	Front	0	< 15%	0.00000523	1.6	Pass
	Back	0	< 15%	0.00000167	1.6	Pass
2	Left Side	0	< 15%	0.0000069	1.6	Pass
	Right Side	0	< 15%	0.00000172	1.6	Pass
	Top Side	0	< 15%	0.000000000109	1.6	Pass
	Bottom Side	0	< 15%	0.000000346	1.6	Pass
	Top Side	0	= 50%	0.000000000102	1.6	Pass
	Left Side	0	= 50%	0.00000166	1.6	Pass
	Top Side	0	> 85%	0.000000000106	1.6	Pass
	Left Side	0	> 85%	0.00000163	1.6	Pass
	Top Side_client phone lid be closed	0	< 15%	0.00000000021	1.6	Pass
	Left Side_client phone lid be closed	0	< 15%	0.00000168	1.6	Pass
	Flip_Front	0	< 15%	0.0000002	1.6	Pass
	Flip_Back	0	< 15%	0.000000144	1.6	Pass
	Flip_Left Side	0	< 15%	0.00000169	1.6	Pass
	Flip_Right Side	0	< 15%	0.00000167	1.6	Pass
	Flip_Top Side	0	< 15%	0.0000000184	1.6	Pass
	Flip_Bottom Side	0	< 15%	0.000000481	1.6	Pass
	Flip_Front	0	= 50%	0.000000179	1.6	Pass
	Flip_Right Side	0	= 50%	0.000000145	1.6	Pass
	Flip_Front	0	> 85%	0.00000017	1.6	Pass
	Flip_Right Side	0	> 85%	0.00000152	1.6	Pass

### **Conclusion:**

Based on SPEAG DASY8 Module WPT-MAGPY system, a magneto quasi-static (MQS) simulation is automatically setup to solve for a lossy halfspace Phantom setup. The lossy half-space has muscle tissue dielectric properties ( $\sigma$  = 0.75 S/m,  $\rho$  = 1000 kg/m3,), The induced electric (E-) fields and specific absorption rate (SAR) are assessed with Sim4Life's Quasi-Static EM Solver (P-EM-QS) that the the product is compliance with Peak spatial-average SAR Result < 1.6W/kg.



# 7. Uncertainty

	Uncertainty Budg	et for Peak H-field				
Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (dB)	
Measurement system						
Amplitude calibration uncertainty	0.35	Ν	1	1	0.5	
Probe anisotropy	0.6	R	1.732	1	0.3	
Probe dynamic linearity	0.2	R	1.732	1	0.1	
Probe frequency domain response	0.3	R	1.732	1	0.1	
Probe frequency linear interp. fit	0.15	R	1.732	1	0.09	
Gradient uncertainty	0.1	R	1.732	1	0.1	
Parasitic E-fild sensitivity	0.1	R	1.732	1	0.1	
Detection limit	0.15	R	1.732	1	0.1	
Readout electronics	0.0	N	1	1	0.0	
Probe positioning	0.19	N	1	1	0.2	
Repeatability	0.1	N	1	1	0.1	
Surface field reconstruction	0.3	N	1	1	0.3	
Com	Combined uncertainty ( k = 1)					
Exp	anded uncertainty ( k	= 2)			1.33	



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DASY8 Uncertainty Budget for psSAR1g according to IEC/IEEE 63184							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci)	Standard Uncertainty (± dB)		
Measurement system							
Amplitude calibration uncertainty	0.44	N	1	1	0.44		
Gradient calibration uncertainty	0.00	N	1	1	0.00		
Probe anisotropy	0.01	R	1.732	1	0.01		
Probe dynamic linearity	0.10	R	1.732	1	0.06		
Probe frequency domain response	0.25	R	1.732	1	0.14		
Modulation response	0.00	R	1.732	1	0.00		
Spatial averaging (maximum gradient)	0.00	R	1.732	1	0.00		
Gradient uncertainty	0.00	R	1.732	1	0.00		
Gradient detection uncertainty	0.00	R	1.732	1	0.00		
Parasitic E-fild sensitivity	0.00	R	1.732	1	0.00		
Detection limit	0.09	R	1.732	1	0.05		
Readout electronics	0.00	N	1	1	0.00		
Response time	0.00	N	1	1	0.00		
Probe positioning	0.17	N	1	1	0.17		
Shaping, fitering, signal conditioning	0.00	N	1	1	0.00		
Nominal position	0.00	R	1.732	1	0.00		
Repeatibility	0.00	N	1	1	0.00		
Numerical Simulations							
Numerical method	0.00	R	1.732	1	0.00		
Grid resolution	0.02	R	1.732	1	0.01		
Tissue parameters	0.00	R	1.732	1	0.00		
Averaging method	0.05	R	1.732	1	0.03		
Model and exposure location	0.00	R	1.732	1	0.00		
Convergence	0.00	R	1.732	1	0.00		
Boundary conditions	0.20	R	1.732	1	0.12		
Post-processing, interpolation	0.30	R	1.732	1	0.17		
Field reconstruction		·	·				
Reconstruction algorithm; i.e., calculation of vector potential from measured magnetic flx density	0.09	R	1.732	1	0.05		
Combined Std. Ur	certainty				0.55 dB		
Coverage Factor	for 95 %				K=2		
Expanded STD Ur	certainty				1.10 dB		



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