

Maximum Permissible Exposure

Equipment : PLAYR
Brand Name : Catapult
Model No. : PD001
FCC ID : 2AELY-PD001
Standard : 47 CFR Part 2.1091
Applicant : KODAPLAY LIMITED
Unit 1, Block 1, Quayside Business Park, Mill
Street Dundalk, Co Louth Ireland
Manufacturer : XAVi Technologies Corporation
22F., No.69, Sec. 2, Guangfu Rd., Sanchong Dist.,
New Taipei City 241, Taiwan

The product sample received on Dec. 01, 2017 and completely tested on Dec. 13, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in IEEE C95.1 and shown compliance with the applicable technical standards.

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

Reviewed by:


Kevin Liang / Assistant Manager



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1 Human Exposure Assessment

1.1 Maximum Permissible Exposure

1.1.1 Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6
Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	F/1500	30
1500-100,000	-	-	1.0	30
Note 1: f = frequency in MHz ; *Plane-wave equivalent power density				
Note 2: For the applicable limit, see FCC 1.1310				

1.1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v02 - Part 2 Section 2.109

1.2 Accessories and Support Equipment

Accessories				
USB Cable	Brand Name	-	Model Name	-
	Signal Line	0.36 meter, shielded cable, w/o ferrite core		
PLAYR	Brand Name	Catapult	Model Name	PR001

Note: Regarding to more detail and other information, please refer to user manual.

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC

1.3 Testing Location Information

Testing Location				
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.		
		TEL : 886-3-327-3456	FAX : 886-3-327-0973	
Test site Designation No. TW1190 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Barry	23.7°C / 61%	13/Dec/2017

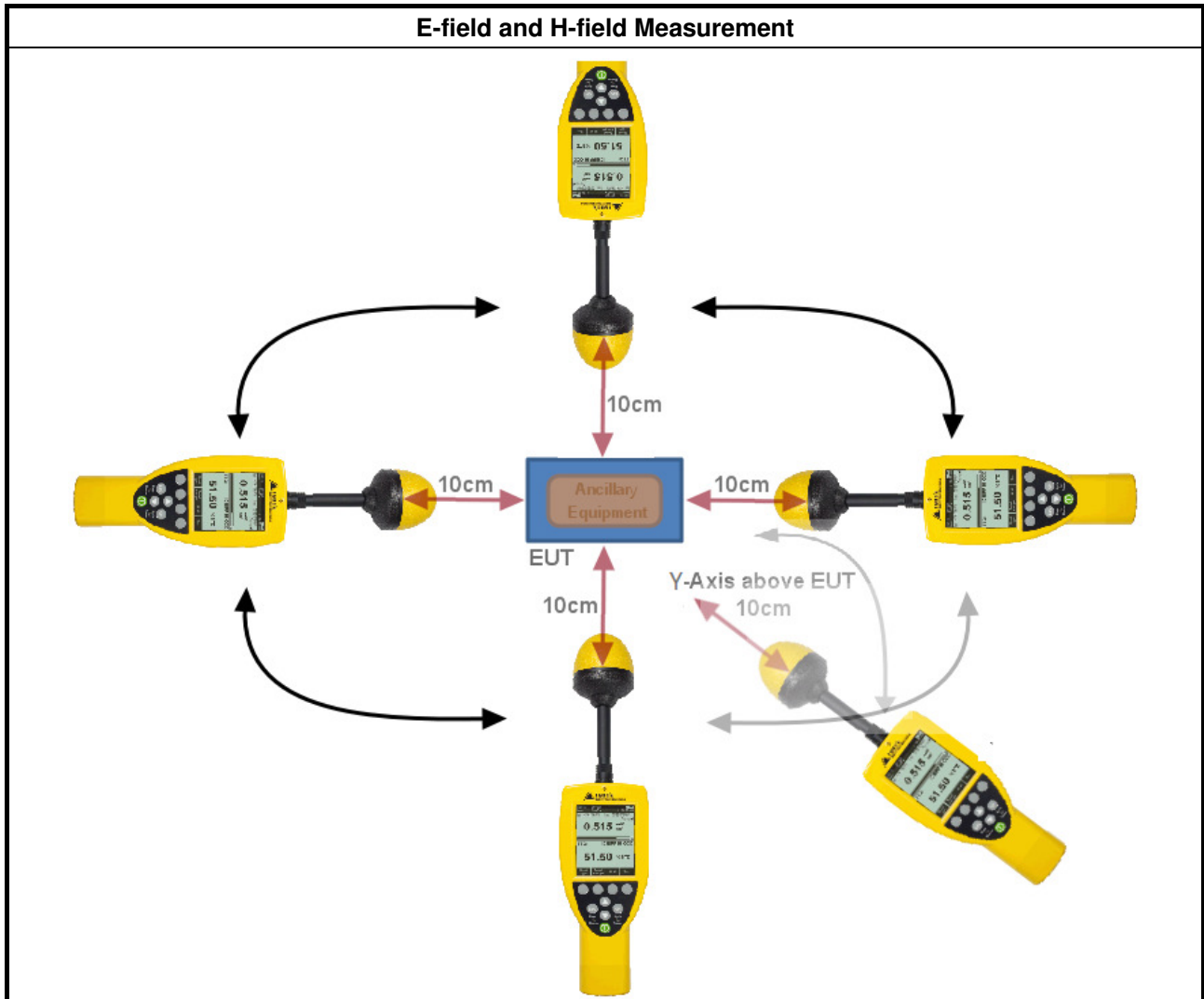
1.4 The Worst Charging Condition

Ancillary Equipment	Charging Condition	Worst Charging Condition
Fixture Load	Charging Mode	Charging Mode

1.4.1 Test Method

Test Method
<input checked="" type="checkbox"/> Performed aggregate both leakage E-field and H-field at surrounding the device from all simultaneous transmitting coils.
<input checked="" type="checkbox"/> During testing, the EUT was placed on a non-conductive table top and the ancillary equipment (e.g., mobile phone) was placed on the EUT for charging. Maximum E-field and H-field measurements were tested 10 cm from each side of the EUT. Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

1.4.2 Test Setup





1.4.3 Result of Maximum Permissible Exposure

Maximum Permissible Exposure (145.4 kHz)				
Charging Condition	Separation	Probe from EUT Side	E-field (V/m)	H-field Limit (A/m)
10%	10cm	Left	0.46	0.001
10%	10cm	Right	0.45	0.001
10%	10cm	Top	0.48	0.001
10%	10cm	Bottom	0.46	0.001
10%	10cm	Y-axis above EUT	0.50	0.001
Limit			614	1.63
Margin Limit (%)			0.08%	0.08%

Maximum Permissible Exposure (145.4 kHz)				
Charging Condition	Separation	Probe from EUT Side	E-field (V/m)	H-field Limit (A/m)
50%	10cm	Left	0.50	0.001
50%	10cm	Right	0.46	0.001
50%	10cm	Top	0.49	0.001
50%	10cm	Bottom	0.48	0.001
50%	10cm	Y-axis above EUT	0.50	0.001
Limit			614	1.63
Margin Limit (%)			0.08%	0.08%

Maximum Permissible Exposure (145.4 kHz)				
Charging Condition	Separation	Probe from EUT Side	E-field (V/m)	H-field Limit (A/m)
90%	10cm	Left	0.48	0.001
90%	10cm	Right	0.48	0.001
90%	10cm	Top	0.50	0.001
90%	10cm	Bottom	0.45	0.001
90%	10cm	Y-axis above EUT	0.46	0.001
Limit			614	1.63
Margin Limit (%)			0.08%	0.08%



2 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Probe EF	Narda Safety Test Solutions GmbH	0391 E-Field	D-0667	0.1MHz ~ 3GHz	09/Jun/2016	08/Jun/2018
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	E-0847	0.1MHz ~ 3GHz	09/Jun/2016	08/Jun/2018