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Prüfbericht / Test report

FCC
(Federal Communications Commission)
Test-Firm-Registration-Number: 90870

SAR



 **TESTED
IN GERMANY**

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Prüfbericht Nr./
Test report no.: **14/12-0025**

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1. CLIENT INFORMATION:

Name: DATECS Ltd.
Address: 4 "Datecs" Str., 1592 SOFIA, BULGARIA
Name of contact: Mr. Nuncho **Nunev**
Telephone: 00359 2 816 55 58
Fax: 00359 2 816 55 65
E-mail: nuncho@datecs.bg

2. EQUIPMENT UNDER TEST (EUT):

2.1 Identification of the EUT

Equipment: Barcode Scanner
Model: Blue scan DBS-55
Brand name: -/-
Serial no.: PQB000161UN14
Manufacturer: DATECS Ltd.
Country of origin: BULGARIA
Rating: 5 V DC (draws power from USB port)

2.2 Additional information about the EUT: -/-

3. SAR

3.1 SAR test exclusion threshold

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 (447498 D01 General RF Exposure Guidance v05r02) is applied to determine SAR test exclusion.

Using following parameters:

Bluetooth module:

f: 2483.5 MHz
 max. channel power: 2.5 mW (including max. antenna gain)
 separation distance: 5 mm
 handheld

exclusion threshold: $2.5/5 \times 1.6 = 0.8$

With the above mentioned values we get a total value of the numeric threshold of

0.8

which is far below 3 (1-g SAR) and 7.5 (10-g SAR) and the Barcode scanner Blue scan DBS-55 is therefor excluded from SAR.

Applied standards/documents

447498 D01 General RF Exposure Guidance v05r02

15.09.2015


Erstellt am/prepared on

W. Eckereder, Laboratory Engineer

(Name/name / Stellung/position)



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Wolfgang Eckereder
 (Unterschrift/signature)

15.09.2015

Freigabe am/released on

G. Raithel Dipl.-Ing. (FH), Head of Laboratory

(Name/name / Stellung/position)



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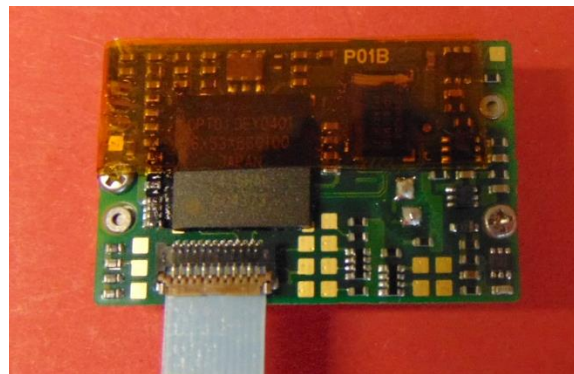
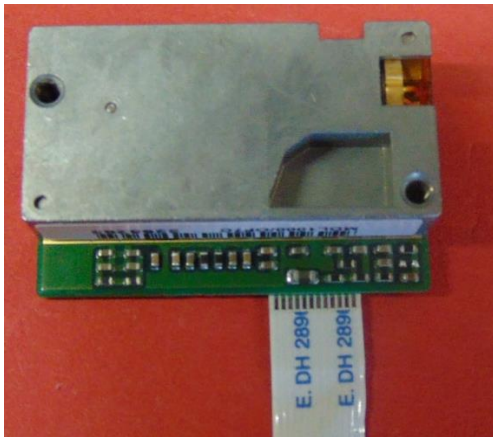
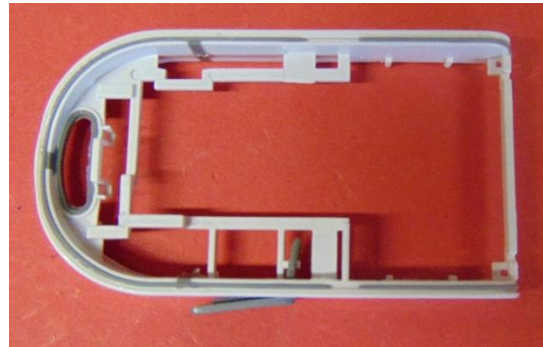
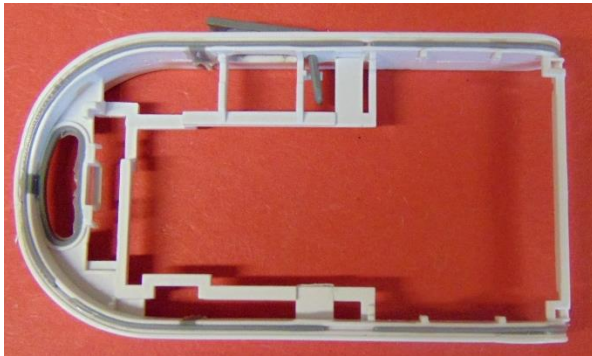
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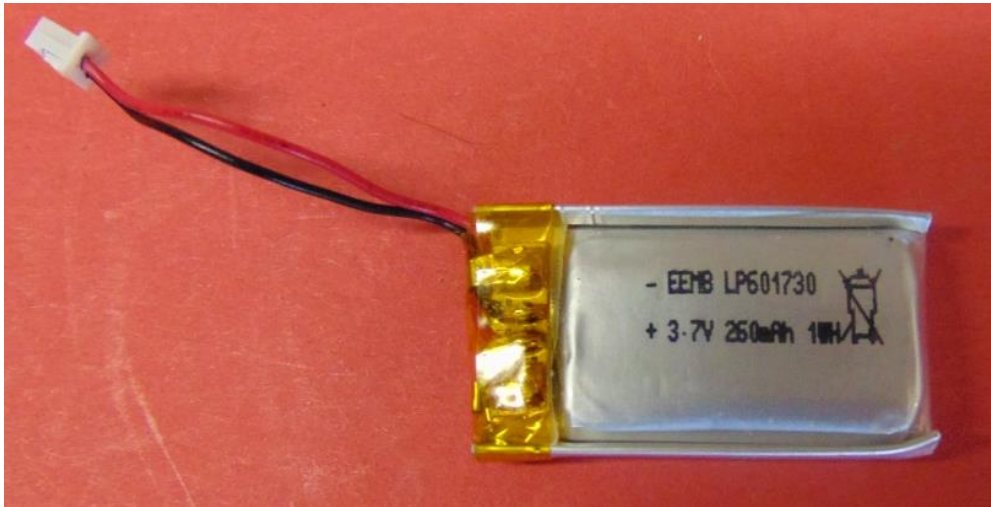
G. Raithel
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4. Photos









End of test report