

**HARMAN AUTOMOTIVE DIVISION**  
HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH  
BECKER-GÖRING-STRASSE 16  
76307 KARLSBAD, GERMANY  
TEL: +49 7248 71 3667  
FAX: +49 7248 71 4667  
E-MAIL: SIMON.VOEGELE@HARMAN.COM



Harman Becker Automotive Systems GmbH | Postfach 2260 | 76303 Karlsbad

**Telecommunication Certification Body**  
**UL VS Ltd**  
Unit 3, Horizon  
Wade Road; Kingsland Business Park  
Basingstoke  
Hampshire RG24 8AH  
United Kingdom

Karlsbad, 2018-11-28

## **RF Exposure Analysis: BT Classic**

**FCC ID: T8GAUS4STD**

### Analysis for FCC portable use

Standalone SAR test exclusion considerations are defined in KDB 447498D01 (v06) Chapter 4.3.1 where the 1-g head or body and 10-g extremity SAR exclusion threshold is defined by the following formula:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$

- $f(\text{GHz})$  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

For the Scania AUS4 STANDARD, the maximum conducted output power is 8.5dBm (7.1mW).

Applying the above data using the given KDB 447498 D01 formula, and minimum separation distance of 5mm, the following results:

$(7.1\text{mW} / 5 \text{ mm}) * \sqrt{2.45 \text{ GHz}} = 2.2$  (i.e.:  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR)

This demonstrates the Scania AUS4 STANDARD meets the criteria for 1-g head/ body and 10-g extremity SAR test exemption.

### Conclusion

The Scania AUS4 STANDARD Bluetooth Classic Radio Functionality meets SAR test exemption for Portable head/body and extremity conditions.

Yours faithfully,

**Mr. Stefan Blaschek, Regulatory Compliance Expert**

Karlsbad (Place)	28.11.2018 (Date)	 (Signature)
---------------------	----------------------	---

**HARMAN AUTOMOTIVE DIVISION**  
Harman Becker Automotive Systems GmbH  
Becker-Göring-Strasse 16  
76307 Karlsbad, Germany

**Mr. Simon Voegle, Regulatory Compliance Expert**

Karlsbad (Place)	28.11.2018 (Date)	 (Signature)
---------------------	----------------------	---