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Tuesday, 13 August 2013

## Statement of justification for compliance for RF Exposure SAR evaluation in accordance with KDB 447498 D01 v05 Section 4.3.1

EUT Raymarine a6x and a7x range of Multifunction displays

Product is a multifunction display which is dashboard mounted, therefore 10-g extremity SAR evaluation will be used for the SAR exemption evaluation.

Test Frequency	2.4 GHz	$\frac{(\text{Max.power of channel including tune-up tolerance, mW})}{(\text{min.test separation distance, mm})} \times (\sqrt{f_{(\text{GHz})}}) \leq 7.5$
Peak Power	5 mW	
Duty Cycle	1	
Average Power	18 mW	

Distance between screen front and antenna	18 mm	SAR Evaluation between front screen and internal antenna
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$$\frac{(5)}{(18)} \times (\sqrt{2.4}) = 0.5$$

Distance between base of display and antenna	5 mm	SAR Evaluation between front screen and internal antenna
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$$\frac{(5)}{(5)} \times (\sqrt{2.4}) = 1.6$$

The front of the display is below the 1-g SAR evaluation level, the base of the unit which would not be accessed by the user in normal operation meets the requirement for the 10-g SAR evaluation level.

Review completed by Andrew Little  
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Raymarine UK Ltd