



Product Service

**5.1 EXECUTIVE SUMMARY**

Note: This summary is issued subject to terms and conditions as attached within this report.

In July 2018, TÜV SÜD in UK was commissioned by Qony OÜ to conduct a test of Specific Absorption Rate (SAR) reduction from the Samsung Galaxy S8 and Apple iPhone 8 mobile phones in the human head using QONY radiation protection mobile device case. The test methodology was based on EN 50360 and EN 62209-1 standards. The tests were successfully completed in July 2018.

The objective of the study was to evaluate the effectiveness of the QONY radiation protection mobile device case in SAR reduction for LTE Band 20 and LTE Band 3 and WCDMA FDDVIII bands when it is used with commercially available Samsung and Apple iPhones. The mobile phones used in this study were Samsung Galaxy S8 and Apple iPhone8, procured in UK.

Based on the measurements conducted, the results for the 10g SAR [W/kg] reduction are as follows:

SAR reduction rate with QONY radiation protection mobile device case:



<b>4G 800MHz</b>	Right Cheek	Left Cheek
iPhone8	98.50%	98.50%
SAM Galaxy S8	94.30%	91.80%

<b>4G 1800MHz</b>	Right Cheek	Left Cheek
iPhone8	99.70%	96.30%
SAM Galaxy S8	83.00%	89.10%

<b>3G 900MHz</b>	Right Cheek	Left Cheek
iPhone8	97.20%	97.70%
SAM Galaxy S8	95.80%	96.20%

Across all 3 bands, the reduction of Specific Absorption Rate was up to 99.7%.



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### Reduction of Specific Absorption Rate (SAR) In the Human Head with QONY Radiation Protection Mobile Device Case

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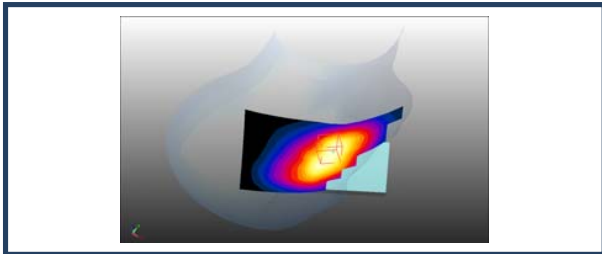
#### High Level Testing Results

LTE-Band 20 1Rb low offset 20MHz QPSK; Channel 24300 – 847 MHz

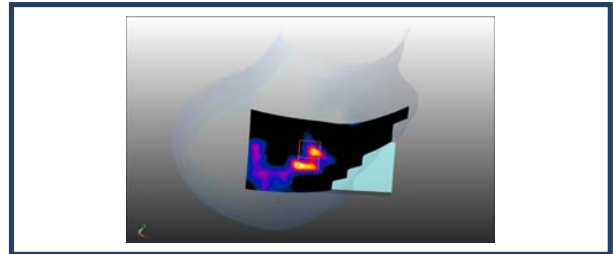
Phone: iPhone8

Test Position: Right Cheek

10g SAR [W/kg] without radiation protection case



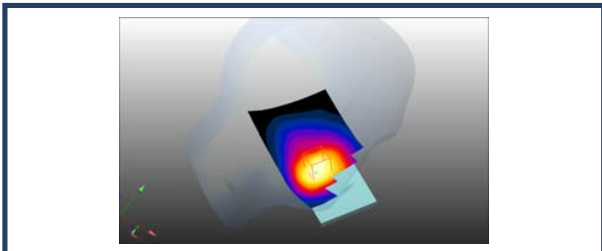
10g SAR [W/kg] with QONY radiation protection case



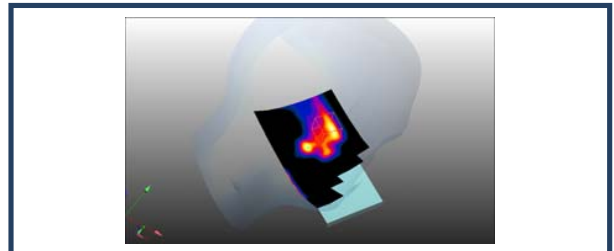
The overall 10g SAR reduction rate is 98.5%.

Test Position: Left Cheek

10g SAR [W/kg] without radiation protection case



10g SAR [W/kg] with QONY radiation protection case



The overall 10g SAR reduction rate is 98.5%.

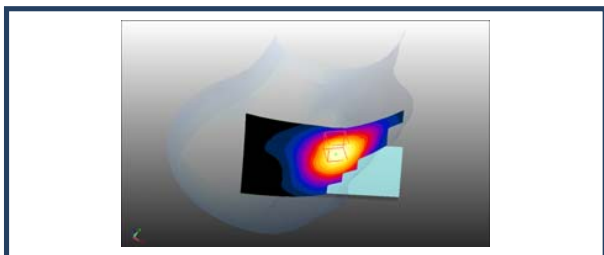


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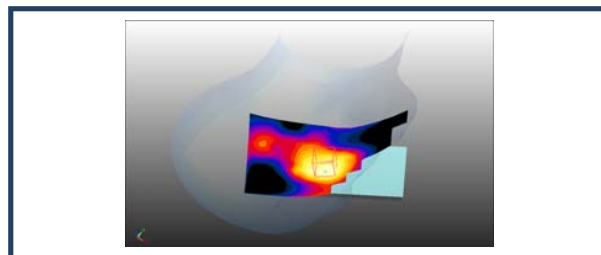
Phone: Samsung Galaxy S8

Test Position: Right Cheek

10g SAR [W/kg] without radiation protection case



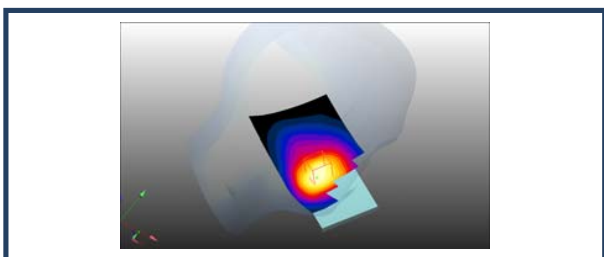
10g SAR [W/kg] with QONY radiation protection case



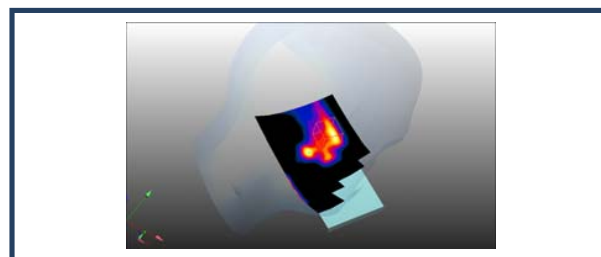
The overall 10g SAR reduction rate is 94.3%.

Test Position: Left Cheek

10g SAR [W/kg] without radiation protection case



10g SAR [W/kg] with QONY radiation protection case



The overall 10g SAR reduction rate is 91.9%.