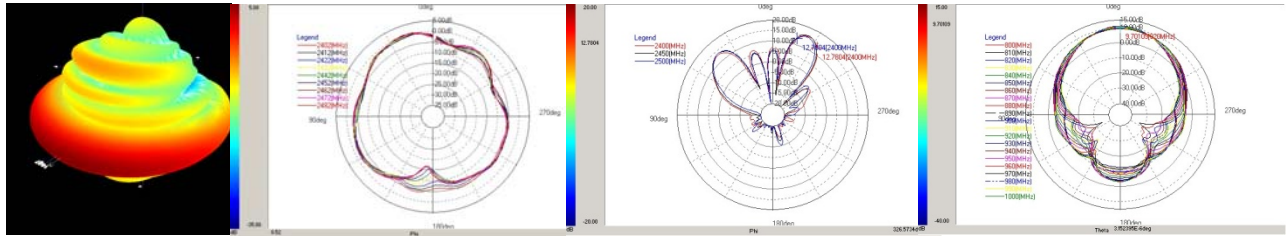


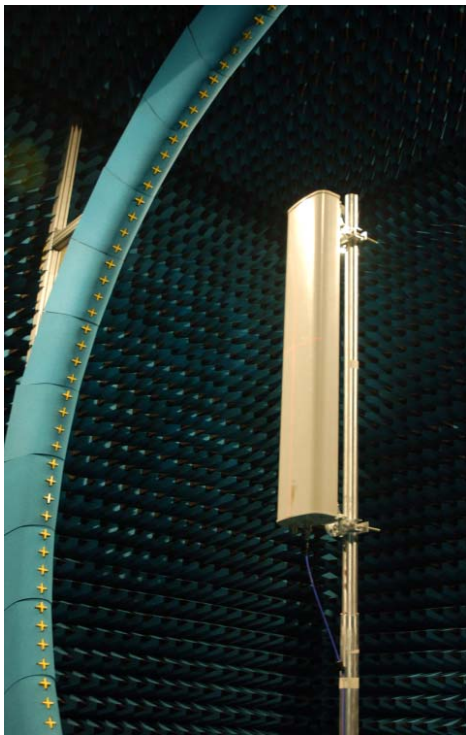


射頻輻射研究實驗室

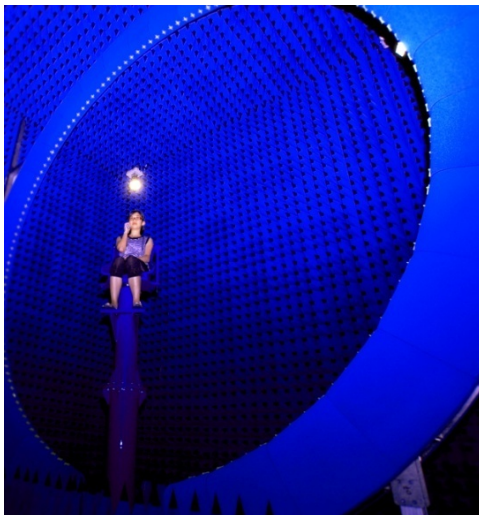
The Chinese University of Hong Kong –
Radio-frequency Radiation Research Laboratory (R³L)



2D & 3D antenna gain pattern
from measurement



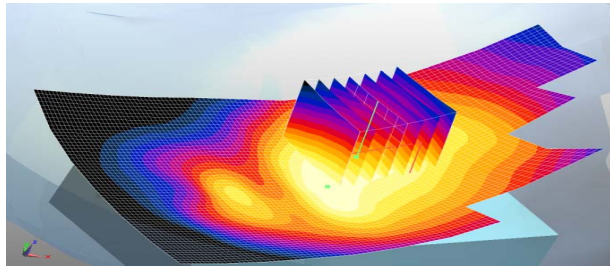
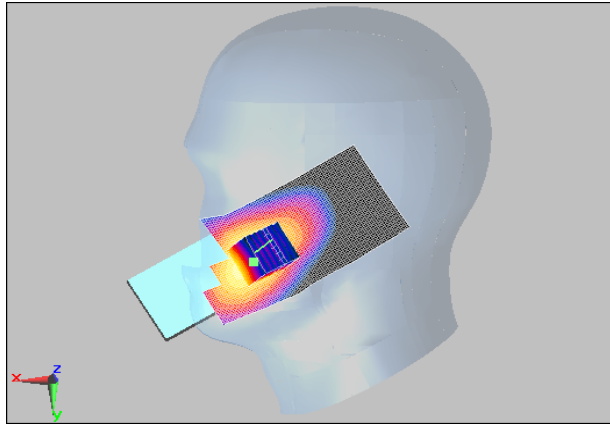
An inside view of anechoic chamber
and the spherical scanner



The Radiofrequency Radiation Research Laboratory (R³L) of The Chinese University of Hong Kong recently received the stringent ISO/IEC17025 Certificate of Accreditation under Hong Kong Laboratory Accreditation Scheme (HOKLAS) and becomes the only one in Hong Kong and one of few in the world ISO/IEC accredited laboratory for mobile terminal Over The Air (OTA) performance test, passive antenna measurement and calibration and Specific Absorption Rate (SAR) measurement.

The R³L Laboratory was established in 2007 with university's strategic investment fund and significant industry sponsorship. The laboratory is equipped with the world class 128-multiple probe spherical near field scanner that is with diameter of nearly 6 meters in a microwave anechoic chamber of 6 by 6 by 7 meters.

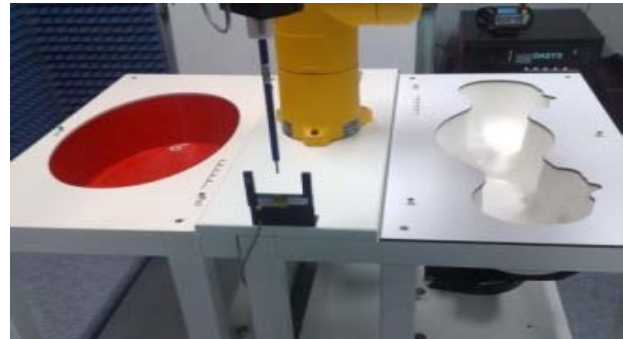
The OTA test facility supports all the existing wireless communication protocols and is the only university facility of such high caliber in the world. Over the past years the laboratory has played irreplaceable role in supporting local wireless industry in product development and test certifications. The laboratory can provide the most authoritative test results related to the OTA performance of a mobile phone and related accessories.



SAR plot from measurement

Specific Absorption Rate (SAR), which is a measure of the amount of radio frequency energy absorbed by the body when using a mobile phone.

In SAR measurement, the laboratory is equipped with the world class DASY5 SAR measurement system that is fully compatible with all worldwide standards and ISO17025.



The Scope of accreditation of CUHK-R3L can be found at

<http://www.itc.gov.hk/en/quality/hkas/doc/scopes/197.pdf>

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