

## Compact Fully Anechoic Chamber CAC-S™ (26 MHz - 1 GHz)

The TDK fully anechoic chamber CAC-S™, with a size of 7.0 m long x 3.0 m wide x 3.0 m high (23' x 9'-10" x 9'-10"), is the most compact anechoic test facility to perform radiated EMC measurements between 26 MHz and 1 GHz.

A major advantage of this chamber is that it can be constructed within most industrial buildings and office areas.

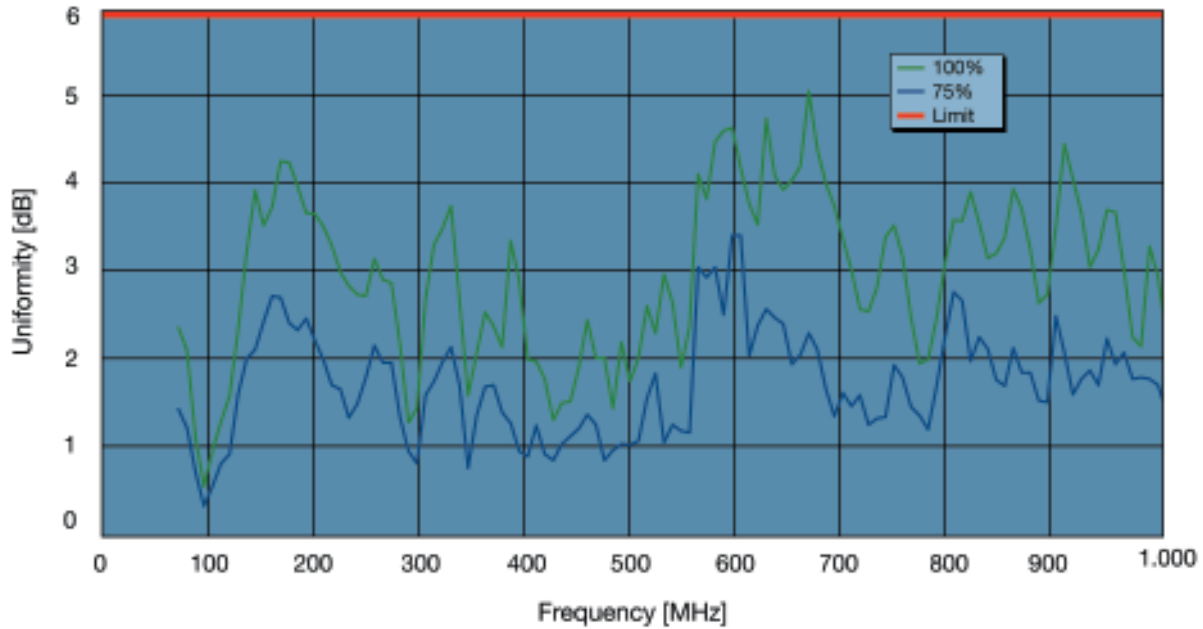
The space saving characteristics are obtained by the use of a particular absorber installation technique which was invented and patented by TDK - the double layer technique. TDK X-131 ferrite tiles are mounted onto dielectric panels to cover the complete frequency range from 26 MHz to 1000 MHz.

CAC-S enables the user to carry out radiated immunity measurements in full compliance with IEC 1000-4-3 standards over the frequency range from 26 MHz to 1 GHz.

3-meter radiated emissions measurements can be performed at a fixed receive antenna height in the 30 MHz to 1 GHz frequency range. This makes the CAC-S an ideal facility to test small apparatus.

- Radiated emissions: Pre-compliance with EN 50147-2, ANSI C63.4, CISPR 22
- Radiated immunity: Full compliance with IEC 1000-4-3
- Fully lined double layer ferrite tile and IP-045C absorber (TDK hybrid technology)
- Space saving: 7.0 m long x 3.0 m wide x 3.0 m high (23' L x 9'-10" W x 9'-10" H)
- Frequency range: 26 MHz - 1 GHz
- Turnkey solution

Example of actual field uniformity results in a TDK compact fully anechoic chamber CAC-S™ (measured by ARC Seibersdorf).



### Chamber Specifications

Dimensions	7.0 m long x 3.0 m wide x 3.0 m high (23' L x 9'-10" W x 9'-10" H)
Absorbers	X-131 Fully lined double layer ferrite
NSA test volume (@ 3 m)	1.0 m Ø, 1.0 m high
Field uniformity area (-0, +6 dB)	1.5 m x 1.5 m, 0.8 m from floor
Radiated emissions	Pre-compliance with EN 50147-2, ANSI C63.4, CISPR 22
Radiated immunity	Compliance with IEC 1000-4-3
EMI frequency range	30 MHz - 1 GHz
EMS frequency range	26 MHz - 1 GHz

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