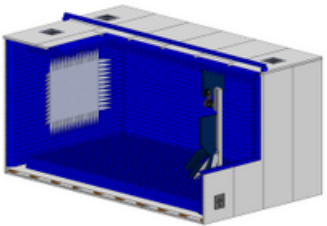


Microwave Testing Chambers

Technical Data Sheet

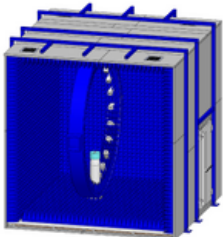


CATR Chamber

Frequency Range : up to 110 GHz

Applications :

- Antenna Testing and Characterization
- Radar Cross Section (RCS) Measurement
- Wireless Communication System Testing
- Satellite Communication System Testing
- Radio Frequency (RF) Propagation Studies
- Automotive Radar Testing

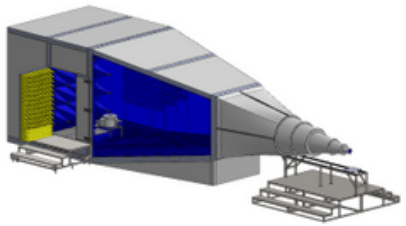


MIMO Chamber

Frequency Range : up to 110 GHz

Applications :

- Wireless Communication System Testing
- Antenna Array Characterization
- Beamforming Algorithm Validation
- Multiple Input Multiple Output (MIMO) Device Performance Evaluation
- Channel Capacity and Throughput Testing
- 5G and Wi-Fi System Optimization

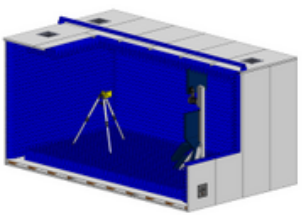


Tapered Chamber

Frequency Range : up to 110 GHz

Applications :

- Antenna Pattern Measurement
- Electromagnetic Compatibility (EMC) Testing
- Wireless Communication Device Testing
- Aerospace and Defense Radar System Testing
- Automotive Radar and Communication System Testing

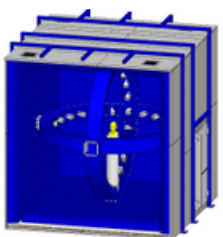


Far-Field/Near-Field Chamber

Frequency Range : up to 110 GHz

Applications :

- Antenna Pattern Measurement
- Radar Cross Section (RCS) Testing
- Wireless Communication Device Testing
- Wireless Network Optimization
- Automotive Radar System Testing

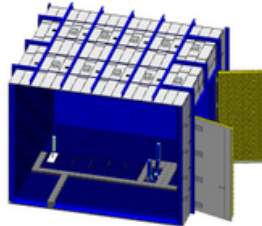


OTA/CTIA Chamber

Frequency Range : up to 110 GHz

Applications :

- Mobile Device Performance Testing
- Antenna Efficiency and Radiation Pattern Measurement
- 5G NR and LTE Conformance Testing
- Wireless Communication Device Certification
- Wi-Fi and Bluetooth Device Testing
- Carrier Acceptance Testing



PIM Chamber

Frequency Range : up to 110 GHz

Applications :

- Testing Passive Intermodulation (PIM) in Telecommunication Systems
- Antenna and RF Component Testing
- Base Station and Tower Site Testing
- Radio Frequency (RF) System Validation
- Wireless Network Optimization
- Interference Analysis and Mitigation

Microwave Testing Chambers

Technical Data Sheet

| Metrics | Specifications | MIMO | PIM | CATR | OTA/CTIA | Far-Field/Near-Field |
|---------------------------------------|--|-------------------|-------------------|-------------------|-------------------|----------------------|
| Compliance | | Compliant | Compliant | Compliant | Compliant | Compliant |
| Dimensions (L x W x H, M3) | | Customizable | Customizable | Customizable | Customizable | Customizable |
| Test distance | | Customizable | Customizable | 10/5 | Customizable | Customizable |
| Absorbers | Ferrite tiles (side walls + ceiling) | Yes/No | Yes/No | Yes/No | No | No |
| | Ferrite tiles (floor) | No | No | No | No | No |
| | Absorbers layout (side walls + ceiling) | Full | Full | Full | Full | Full |
| | Absorbers layout (floor) | Full | Partial | Full | Full | Full |
| Shielding Effectiveness (dB, typical) | 10kHz to 18/40 GHz as per EN50147-1, IEEE299 | Greater than 95dB | Greater than 95dB | Greater than 95dB | Greater than 95dB | Greater than 95dB |
| Test volume diameter / height (meter) | | 2 / 2 | 3 / 3 | 4 / 3 | Customizable | Customizable |
| Frequency Range of Operation | 30 MHz - 110 GHz | 30 MHz-110 GHz | | | | |
| Customizations | | yes | yes | yes | yes | yes |

In addition to the typical specifications we are able to tailor the chamber's specification to satisfy our customers' individual requirements.

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Contact sales@aracion.com for highly customized testing chambers!