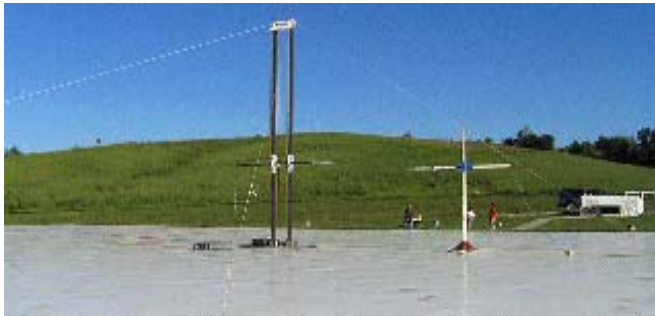


Site Evaluation Measurement

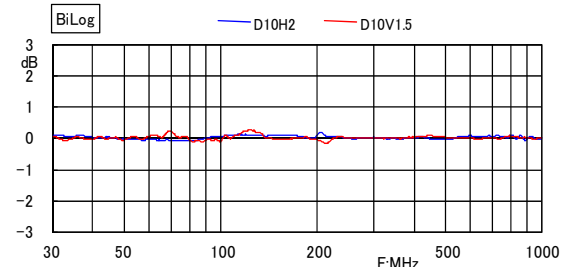
Evaluation measurement of NSA, SVSWR, etc and Consulting for Anechoic Chamber as a third party.

1. NSA: 30-1000MHz, CISPR16-1-4 / CISPR 22 / ANSI C63.4 / VCCI

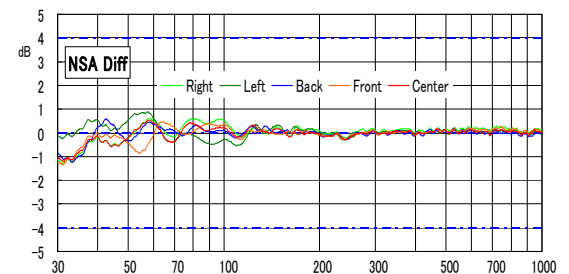
Comparison measurement using reference factor that was calibrated by ANSI 3 antenna method at Liberty Lab. reference open test site (50x80m) where is used for conduction of ANSI free space factor.



- High precision sweep measurement by accurate setting, high performance Network analyzer(NA) and our expert engineer.
- 0.2dB repeatability and $\pm 0.5\text{dB}$ uncertainty
- Antenna : Bilog:VULB9160, Bicon:VHA9103, LPD:VULP9118A, Dipole:V/UHAP
- Consulting of Best Axis alignment and performance



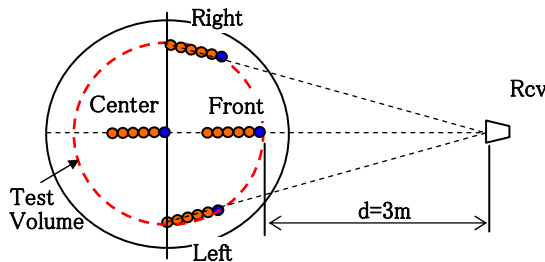
<Antenna factor repeatability (yearly)>



< NSA:Horizontal 2.0m

2. SVSWR: 1-6(18)GHz, CISPR16-1-4 / VCCI

- Accurate POD setting by low reflective scanner
- High speed sweep measurement by Network analyzer: NA

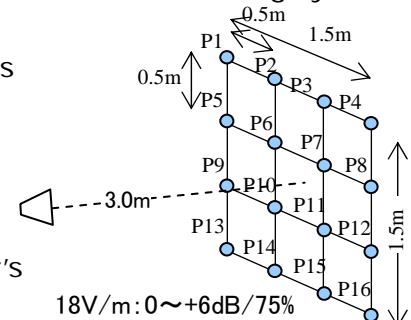


Rotating TT with absorber floating system

- Consulting for floor absorber layout /Maximum test volume and VCCI application support
- Providing NA data read software, SVSWR work sheet, Low reflection POD moving system and absorber floating system, etc
- * Available 1-6GHz NSA measurement by Two POD antennas

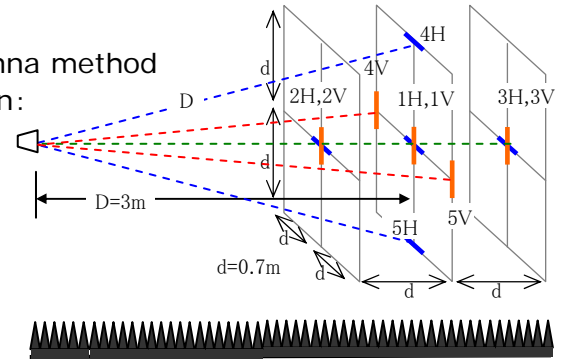
3. Uniformity: 80MHz~18GHz, IEC61000-4-3

- High speed measurement by 4 ch E-field sensor and low reflective sensor moving system
- Auto calculation of applying immunity level for customer's system by One pre-measurement
- Consulting for floor absorber layout / antenna position / cable loss
- Providing System control software / Immunity test software / Absorber floating system



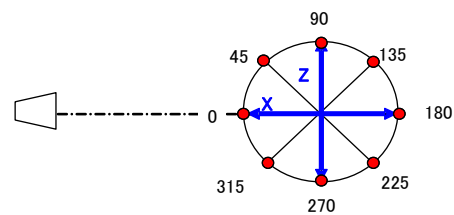
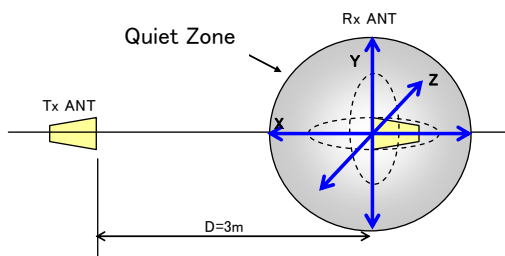
4. ETSI TS 102 321 FAC NSA: 1-18-40GHz

- Accurate reference free space antenna factor by 3 antenna method
- High speed sweep measurement by LPA: 1-18GHz, Horn: 18-40GHz and NA
- High accurate positioning by X-Y scanner/laser marker.
- 0.2dB repeatability and ± 0.5 dB uncertainty



5. IEEE 149: Quiet Zone(QZ) for microwave FAC 1-40GHz

- VSWR for QZ by standard gain horn antenna
- High speed measurement with X/Y/Z axis positioning and 30(45) degree step by Low reflective scanner



Generally, Customer's Tx antenna

6. CISPR16-1-4 FAC NSA: 30MHz-1GHz

- FAC NSA evaluation which is planning to introduce for CISPR32 multimedia products
- Bi-con antenna free space factor calibration : 30M-1GHz H=10m
- High repeatability by Network analyzer / Laser marker antenna setting / ferrite core attached cable

7. Shield evaluation: 10kHz-18GHz, IEEE Std. 299 / EN50147-1

- Wide Dynamic Range: DR measurement by High sensitivity spectrum analyzer / Power amplifier
- Evaluation and Modification / consulting by our expert engineer

Magnetic field: Loop 10kHz-30MHz, DR 130dB

Electric field: Monopole 10kHz-30MHz, DR 130dB

Plane wave: Bicon/LPD 30MHz-1GHz, DR120dB

GHz: Horn 1-18GHz, DR120dB

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