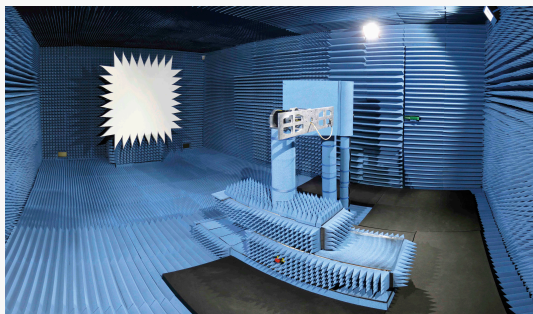
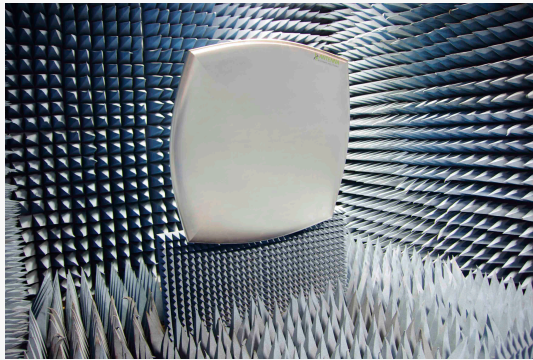
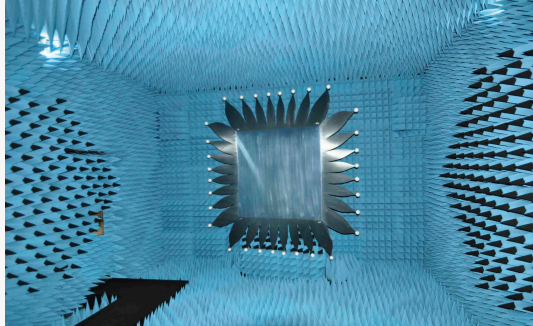


SERRATED SINGLE REFLECTORS

Compact Antenna Test Ranges (CATRs) designed and manufactured by ASYSOL are optimized for achieving the best performance over a wide frequency range from the lower limit of few GHz to mm-bands above 100 GHz. Our standard products include a single reflector, offset-fed CATRs with serrated edge reflectors for the Quiet Zone (QZ) dimensions from 0.3m to 3m, and blended rolled edge reflectors with the QZ up to 1m mostly for the mm-band applications. Larger QZ dimensions or special design CATRs are also available on request.

ASYSQL's family of reflectors are fabricated utilizing the most advanced and accurate metal machining facilities, achieving surface accuracies as small as $\pm 10\mu\text{m}$ peak to peak required for today's high-frequency demands. Edge diffraction is kept to a minimum by employing carefully designed serrations, optimized for a low-frequency operation to minimize interference in the QZ..

APPLICATIONS

- * Antenna Measurements
- * RADOME Measurements
- * RCS Measurements

WHERE
INNOVATION
IS STANDARD

PRODUCTS OF ASYSOL

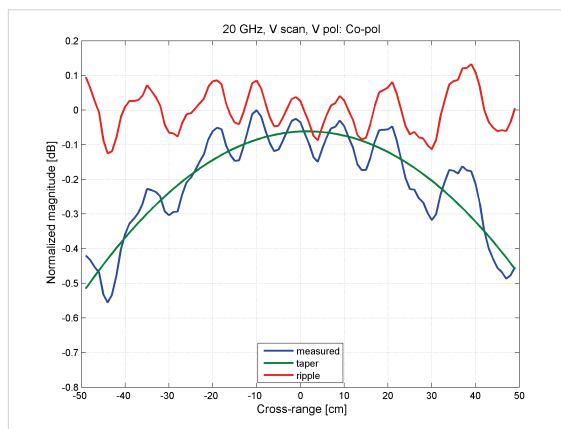
Near/Far-Field Ranges · Compact Antenna Test Range · Test Antennas · Motion components · Special Positioning Configuration · Anechoic Chambers · Software

MODEL NO.	Frequency [GHz]	Feed Location ⁽¹⁾	Shape ⁽²⁾	Quiet Zone Size [m]	Amplitude Taper [dB]	Typ Amplitude Ripple [dB]	Phase Taper [deg]	Typ Phase Ripple [deg]	Max Cross Pol [dB]
ASY-CR-04-04	8.0 – 200	FF-LF-CF	C	0.45 x 0.45	<1	±0.3	3	±3	30
ASY-CR-05-05	6.0 – 200	FF-LF-CF	C	0.5 x 0.5	<1	±0.3	3	±3	30
ASY-CR-06-06	4.0 – 200 ⁽³⁾	FF-LF-CF	C	0.6 x 0.6	<1	±0.3	3	±3	30
ASY-CR-08-08	3.0 – 200	FF-LF-CF	C	0.8 x 0.8	<1	±0.3	3	±3	30
ASY-CR-10-10	2.4 – 200	FF-LF-CF	C	1.0 x 1.0	<1	±0.3	3	±3	30
ASY-CR-12-12	2.0 – 200	FF-LF-CF	C	1.2 x 1.2	<1	±0.3	3	±3	30
ASY-CR-18-12	1.5 – 200	FF-LF-CF	E	1.8 x 1.2	<1	±0.3	3	±3	30
ASY-CR-20-20	1.2 – 200	FF-LF-CF	C	2.0 x 2.0	<1	±0.3	3	±3	30
ASY-CR-25-18	1.0 – 200	FF-LF-CF	E	2.5 x 1.8	<1	±0.3	3	±3	30
ASY-CR-30-30	0.8 – 200	FF-LF-CF	C	3.0 x 3.0	<1	±0.3	3	±3	30

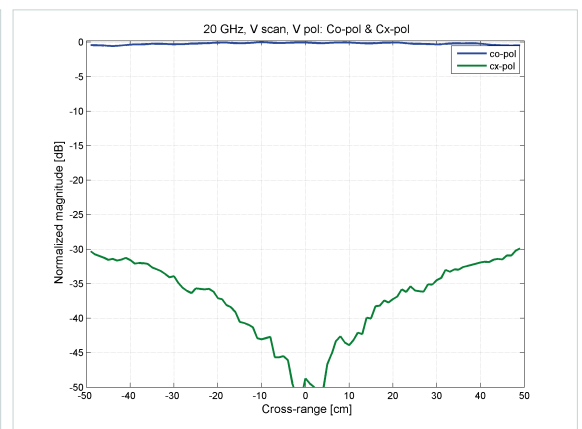
⁽¹⁾ FF=Front Fed, CF=Corner Fed, LF=Lateral Fed

⁽²⁾ C=Cylindrical E=Elliptical

⁽³⁾ Can be extended from 3.2 GHz



Quiet Zone Taper and Ripple



Quiet Zone Cross Polarisation

ANTENNA SYSTEMS SOLUTIONS

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