



L3HARRIS™
FAST. FORWARD.

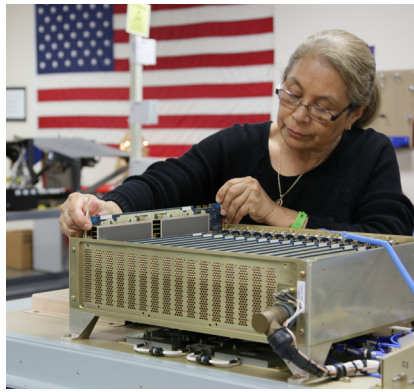
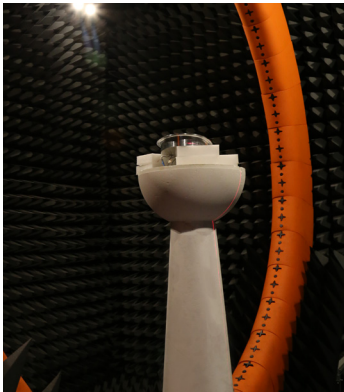
APERTURE TEST RANGES

Antenna test ranges to handle any of your aperture testing needs

SATIMO RANGE

PASSIVE MEASUREMENT SPECIFICATIONS			
	Standard 18 GHZ		
	10 DBI AUT	20 DBI AUT	30 DBI AUT
Peak Gain Accuracy	± 0.93 DB	± 0.8 DB	± . -
0.4 GHZ - 0.8 GHZ	± 0.5 DB	± 0.5 DB	± 0.5 DB
0.8 GHZ - 18 GHZ	± 0.5 DB	± 0.5 DB	± 0.5 DB
Peak Gain Repeatability	± 0.5 DB	± 0.5 DB	± 0.5 DB

ACTIVE MEASUREMENT SPECIFICATIONS	
TRP Accuracy Free Space	10 DBI AUT
TRP Accuracy Free Space	<± 1.4 DB
TRP Accuracy Talk Position	<± 1.5 DB
TRP Repeatability	± 0.3 DB
Typical TRP Measurement Time	< 90 S
TIS Accuracy Free Space	<± 1.5 DB
TIS Accuracy Talk Position	<± 1.6 DB
TIS Repeatability	± 0.5 DB
Typical TIS Measurement Time	15 MIN → 60 MIN



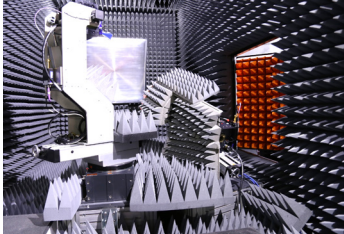
NSI RANGE

RANGE SPECIFICATIONS	
Frequency Range	1 GHZ - 50 GHZ
Overall Dimensions	27' x 22'
Max Antenna Dimension	8' x 8' scan area
Max Antenna Under Test Weight	50 lbs



MINI COMPACT RANGE

RANGE SPECIFICATIONS	
Frequency Range	18 GHZ - 40 GHZ
Reflector Supports	8 GHZ - 110 GHZ
Overall Dimensions	8' x 10' 15'
Quiet Zone	20"
Max AUT Weight	30 lbs



Engineering Analysis Tools

- > RF Analysis: Time Domain, Finite Element and Integral Equation Solvers
- > Antenna and Radome Design and Optimization
- > Installed Antenna Performance and Co-Site Analysis
- > Static/Dynamic Loads Analysis
 - > Thermal Analysis
 - > Airflow and Heat Transfer Analysis
- > Composite Materials Selection
- > 3D Solid Modeling
- > Air Worthiness FAA/Military Certification
- > DO-160 Environmental Qualification

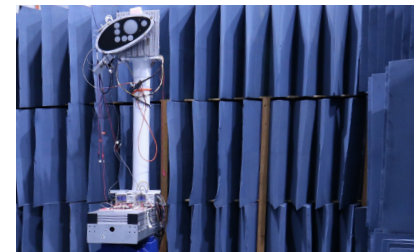
LONG RANGE

RANGE SPECIFICATIONS	
Frequency Range	.400 GHZ - 50 GHZ
Overall Dimensions	96' x 18'
Max Antenna Dimension	9.7 at 400 MHZ (FAR FIELD)
Max Antenna Dimension	1.9' at 10 GHZ (FAR FIELD)
Max Antenna Under Test Weight	500 lbs
SA 5323 AZ/EL Positioner capable of 10000 ft/lbs 8'9" mast tested to 500 lbs	



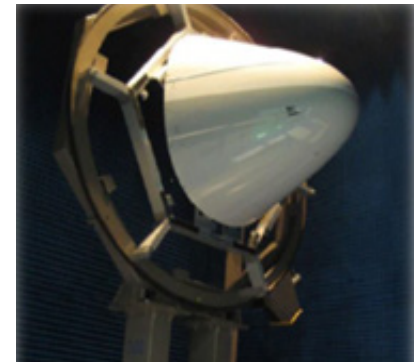
SHORT RANGE

RANGE SPECIFICATIONS	
Frequency Range	.080 GHZ - 50 GHZ
Overall Dimensions	33' x 15'
Max Antenna Dimension	6' at 400 MHZ (CLEARANCE)
Max Antenna Dimension	1.1' at 10 GHZ (FAR FIELD)
Max Antenna Under Test Weight	500 lbs
AZ/EL 4374 Positioner capable of 800 ft/lbs. AUT POL motor rated at 300 lbs	



RADOME RANGE

RANGE SPECIFICATIONS	
Gimbal Stacking Order Emulated	Either AZ/EL or EL/AZ
Maximum Radome Diameter	15 ft
Minimum Radome Diameter	18 in
Maximum Radome Weight	300 lbs
Maximum Radome Overturning Moment	300 ft - lbs
Minimum Distance Between Gimbal Point and Rear of System Antenna	0 in
Preliminary Recommended Test Volume	40 ft L x 30 ft W x 20 ft H
Range Height	10 ft
Frequency Bands	10-14 GHZ (KU) 44 GHZ (KA)



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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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