



narda ATM

L-3 Technologies Narda-ATM
49 RIDER AVE, PATCHOGUE, NY 11772
TEL: 631 289 0363 FAX: 631 289 0358

Certificate Number 1705-8208

Certificate Of Calibration

The Antenna(s) has been individually calibrated using the following standard procedure(s):

SAE ARP-958D, ANSI C63.5-2006 and/or IEEE 291

Calibration Traceability: All measurement instrumentation traceable to the National Institute of Standards and Technology (NIST). Calibration is I.A.W. ANSI/NCSL Z540-1-1994 and ISO/IEC 17025

Uncertainties listed are derived from methods described by NIST Tech Note 1297.

NIST Numbers: DCV 811/24944-92, ACV 521/234615, Ω 811/250891

Dimensional 821/253616-94, WWW Boulder, CO

Calibration Uncertainty: 5 Meter +/- 0.82 dB
3 & 10 Meter +/- 0.75 dB

Environment: Temperature: 71 Degrees Fahrenheit
Relative Humidity: 58 % (non-condensing)

Manufacturer	Model Number	Serial Number	Date of Calibration
L-3 Technologies Narda-ATM	62-444H/ST-ELE	T123702-01	15-May-17

Re-Certification Date: 1 year from calibration date Calibration Equipment Used

Model Number	Serial Number	Calibration Due Date
Agilent 8722ES	US39175359	27-Mar-18

Antenna Condition

Pre Calibration:		Post Calibration:	
In tolerance	<input checked="" type="checkbox"/>	Meets all specs	<input checked="" type="checkbox"/>
Out of tolerance	<input type="checkbox"/>	Limited specs	<input type="checkbox"/>
Repair required	<input type="checkbox"/>	Other	<input type="checkbox"/>
Repair performed	<input type="checkbox"/>		

Special Limitations: _____

David Habermann
Quality Assurance



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Horizontal Polarization

5 Meter Calibration, Horn Antenna

Model: 62-444H/ST-ELE Serial Number: T123702-01 Date: 15-May-17

Frequency (GHz)	Antenna Factor (dB/m)	Gain (dBi)	Gain (Numeric)
12000	31.476	20.355	108.510
12100	32.032	19.871	97.067
12200	31.512	20.461	111.211
12300	30.508	21.537	142.460
12400	31.508	20.607	115.003
12500	31.953	20.232	105.487
12600	31.477	20.777	119.580
12700	32.277	20.046	101.063
12800	32.826	19.565	90.468
12900	32.060	20.399	109.617
13000	32.873	19.652	92.306
13100	32.411	20.181	104.246
13200	31.889	20.769	119.361
13300	32.572	20.151	103.547
13400	32.560	20.229	105.412
13500	32.607	20.246	105.833
13600	33.754	19.163	82.476
13700	32.956	20.025	100.579
13800	32.932	20.112	102.604
13900	33.284	19.823	96.007
14000	32.350	20.819	120.758
14100	32.881	20.350	108.394
14200	33.522	19.771	94.858
14300	32.592	20.761	119.158
14400	32.852	20.561	113.802
14500	33.367	20.107	102.484
14600	31.732	21.801	151.405
14700	33.392	20.201	104.738
14800	33.001	20.650	116.158
14900	31.616	22.095	161.985

Add antenna factor plus cable loss to receiver reading in dBuV
to convert to field intensity in dBuV/meter. Calibrate per
SAE ARP-958 and/or ANSI C63.5 and/or IEEE 291



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5 Meter Calibration, Horn Antenna

Model: 62-444H/ST-ELE Serial Number: T123702-01 Date: 15-May-17

Frequency (GHz)	Antenna Factor (dB/m)	Gain (dBi)	Gain (Numeric)
15000	33.000	20.769	119.365
15100	33.028	20.798	120.161
15200	32.077	21.806	151.576
15300	33.966	19.975	99.421
15400	33.479	20.518	112.670
15500	32.122	21.931	155.998
15600	33.850	20.259	106.148
15700	33.398	20.767	119.313
15800	32.360	21.859	153.442
15900	34.103	20.172	104.036
16000	33.310	21.019	126.447
16100	32.532	21.851	153.149
16200	34.314	20.123	102.873
16300	33.261	21.230	132.732
16400	32.422	22.121	162.979
16500	34.299	20.298	107.095
16600	33.255	21.394	137.846
16700	32.896	21.805	151.532
16800	34.557	20.196	104.616
16900	33.353	21.452	139.693
17000	33.328	21.527	142.146
17100	34.184	20.723	118.109
17200	32.854	22.103	162.299
17300	33.204	21.803	151.472
17400	34.724	20.333	107.978
17500	33.299	21.808	151.644
17600	33.444	21.713	148.354
17700	34.548	20.658	116.348
17800	33.243	22.012	158.930
17900	34.267	21.036	126.952
18000	34.591	20.761	119.141

Add antenna factor plus cable loss to receiver reading in dBuV
to convert to field intensity in dBuV/meter. Calibrate per
SAE ARP-958 and/or ANSI C63.5 and/or IEEE 291