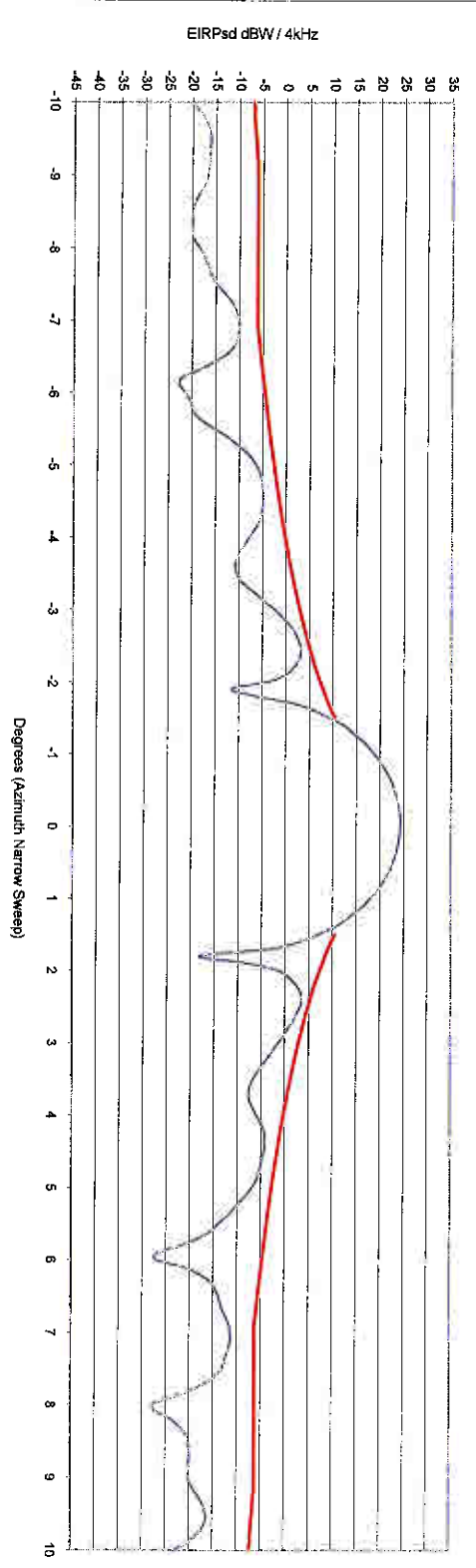


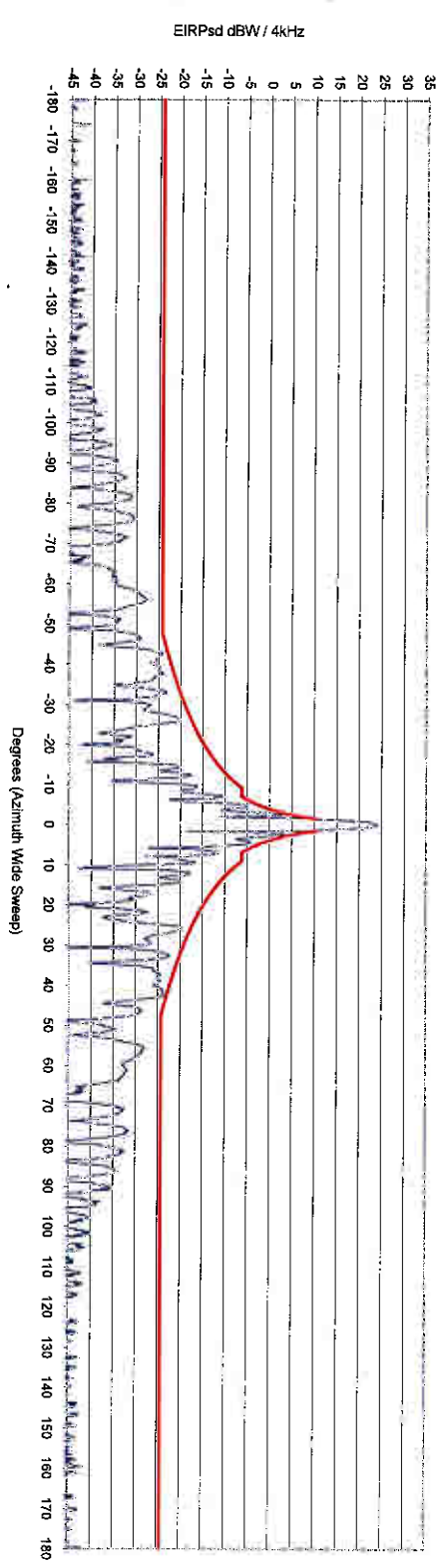
Exhibit D – Antenna Patterns

Cobham SATCOM, Sea Tel Products
 1.0 m EIRPsd, HH Co-Pol, Azimuth, E-Plane (A)

14.25 GHz @ -16.3 dBW / 4 kHz, 0.2 dB Radome Loss



14.25 GHz @ -16.3 dBW / 4 kHz, 0.2 dB Radome Loss

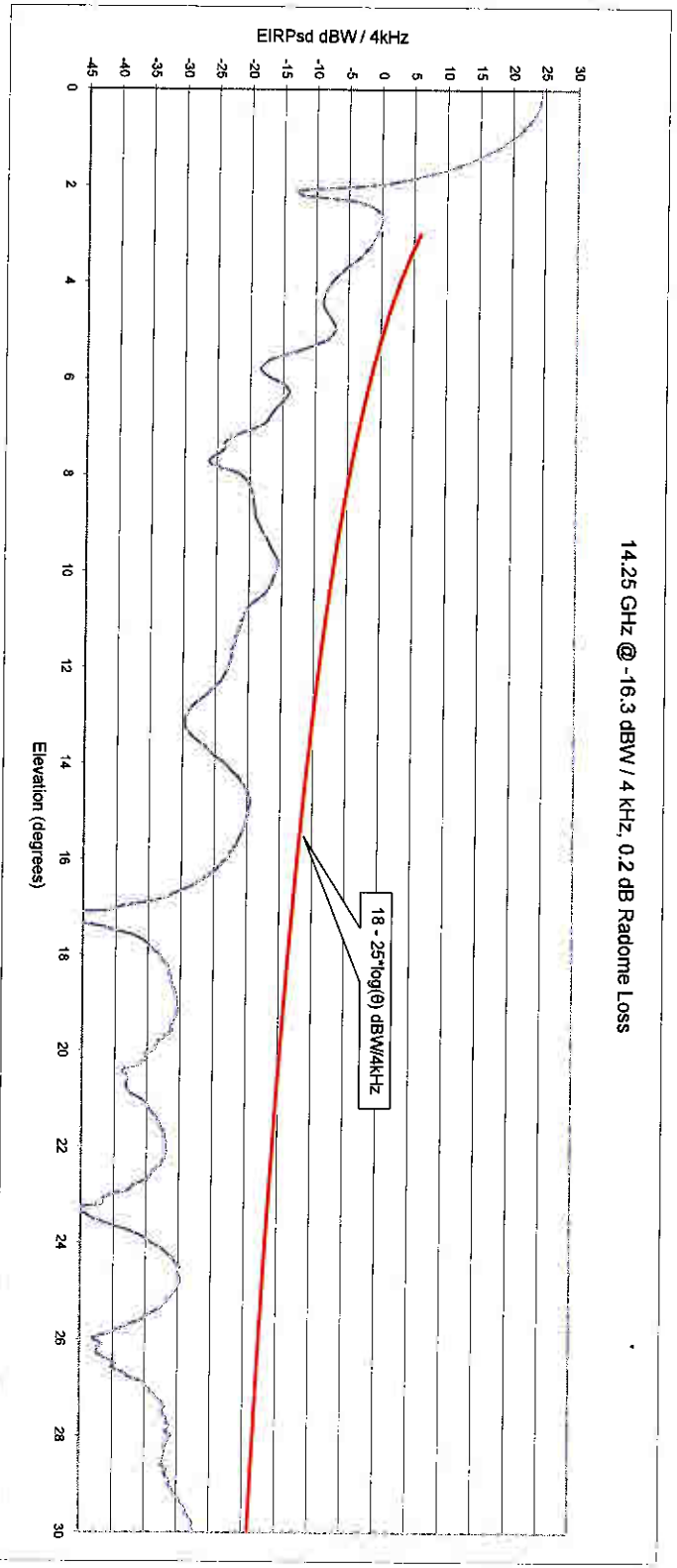


File D:\SEATEL\ACQUIRE\DATA\AZ1425_40_H.MDB

Plot Parameters	Peak Excursions dB	% Over
Input sd -16.3	Gain 40.88	Cal Factor 55.82
	1.5° to 7°	7° to 180°
	-1.2	-0.7
		0%

Cobham SATCOM, Sea Tel Products
 1.0 meter EIRPsd, HH Co-Pol, Elevation, H-Plane (B)

14.25 GHz @ -16.3 dBW / 4 kHz, 0.2 dB Radome Loss



File
 D:\SEATEL\ACQUIREDATA\AZ1425_40_E_V.MDB

Plot Parameters

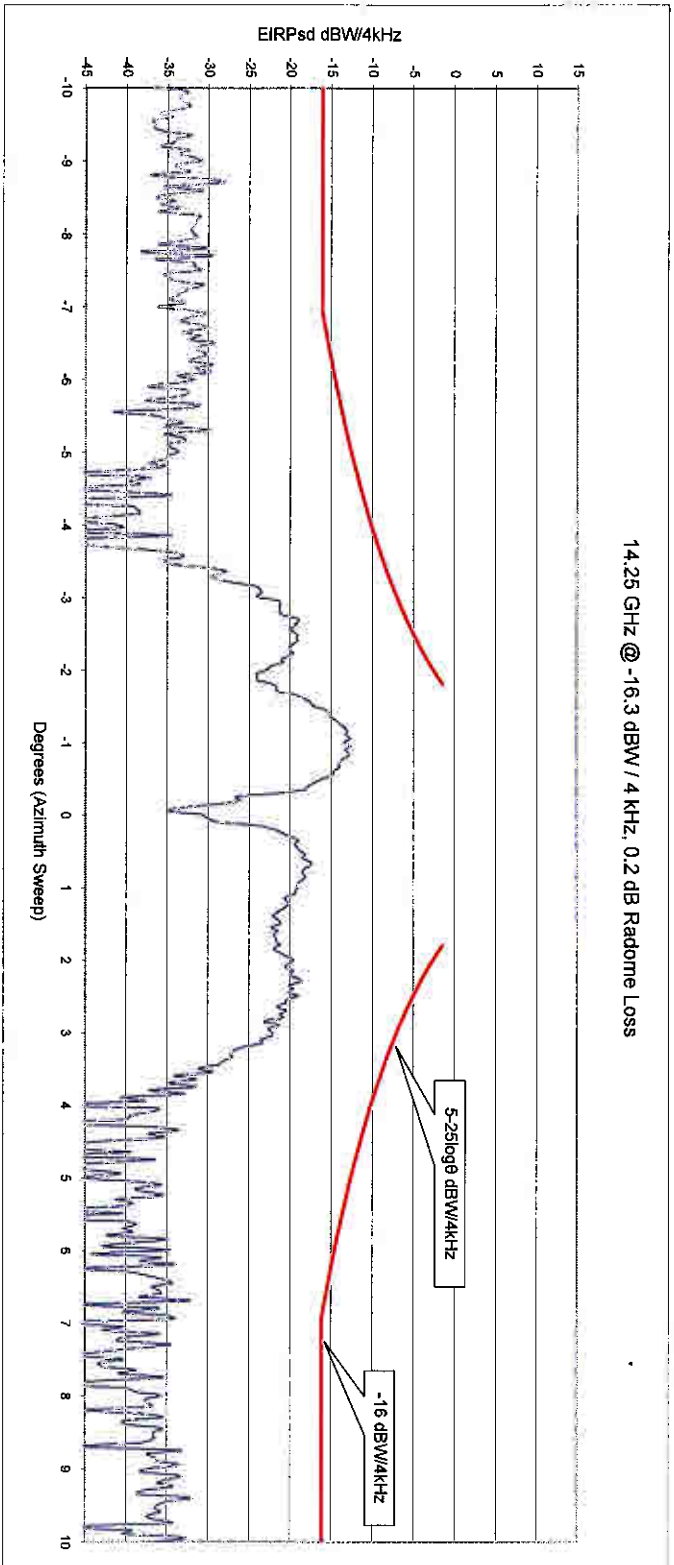
Input sd	Gain	Cal Factor
-16.3	40.88	56.36

Peak Excursions dB

3° to 30°	% Over
-6.59	0%

Cobnam SATCOM, Sea Tel Products
 1.0 meter EIRPsd, VH X-Pol, Azimuth, E-Plane (C)

14.25 GHz @ -16.3 dBW / 4 kHz, 0.2 dB Radome Loss

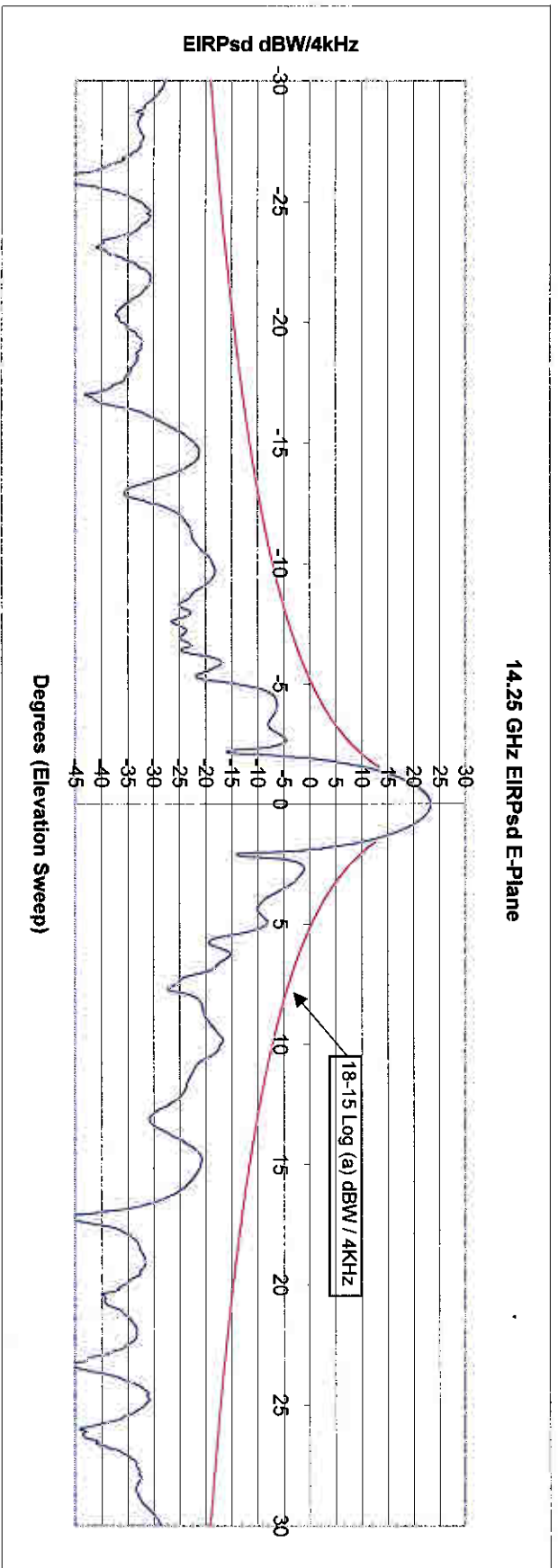


File: E:\LOOP\CANYON\ACQUIRE\DATA\1425XAZ_HH_ND_2.MDB

Plot Parameters			Peak Excursions dB		% Over
Pin sd	Gain	Cal Factor	1.8° to 7°	7° to 180°	0.00
-16.3	43.05	42.12	-13.09	-13.31	

Sea Tel, Inc.
1 Meter EIRP Spectral Density @ -17.9 dBW / 4kHz Input and 0.6 dB radome loss

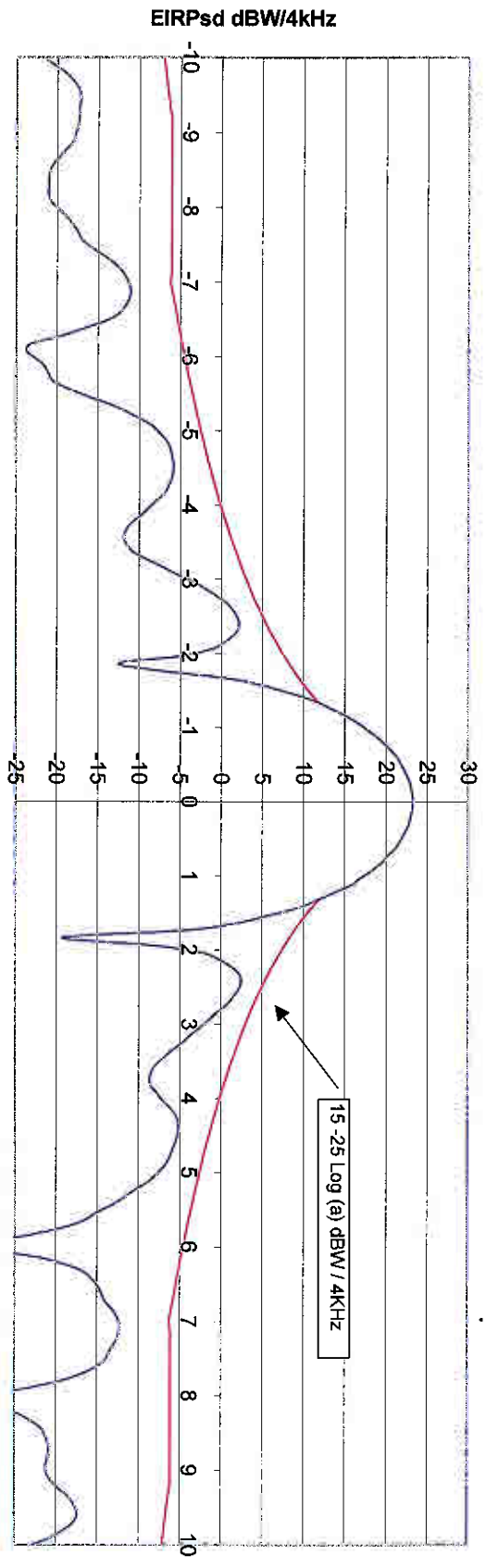
14.25 GHz EIRPsd E-Plane



Sea Tel, Inc.

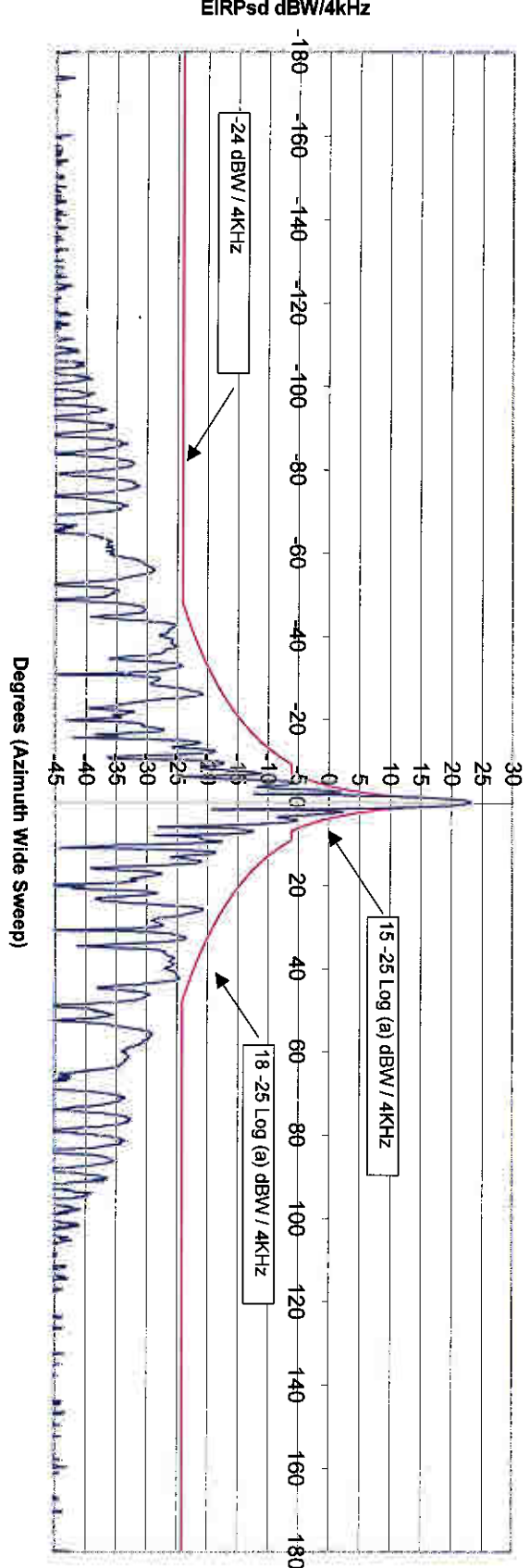
1 Meter EIRP Spectral Density @ -17.9 dBW / 4KHz Input and 0.6dB radome loss

14.25 GHz EIRPsd H-Plane



Degrees (Azimuth Narrow Sweep)

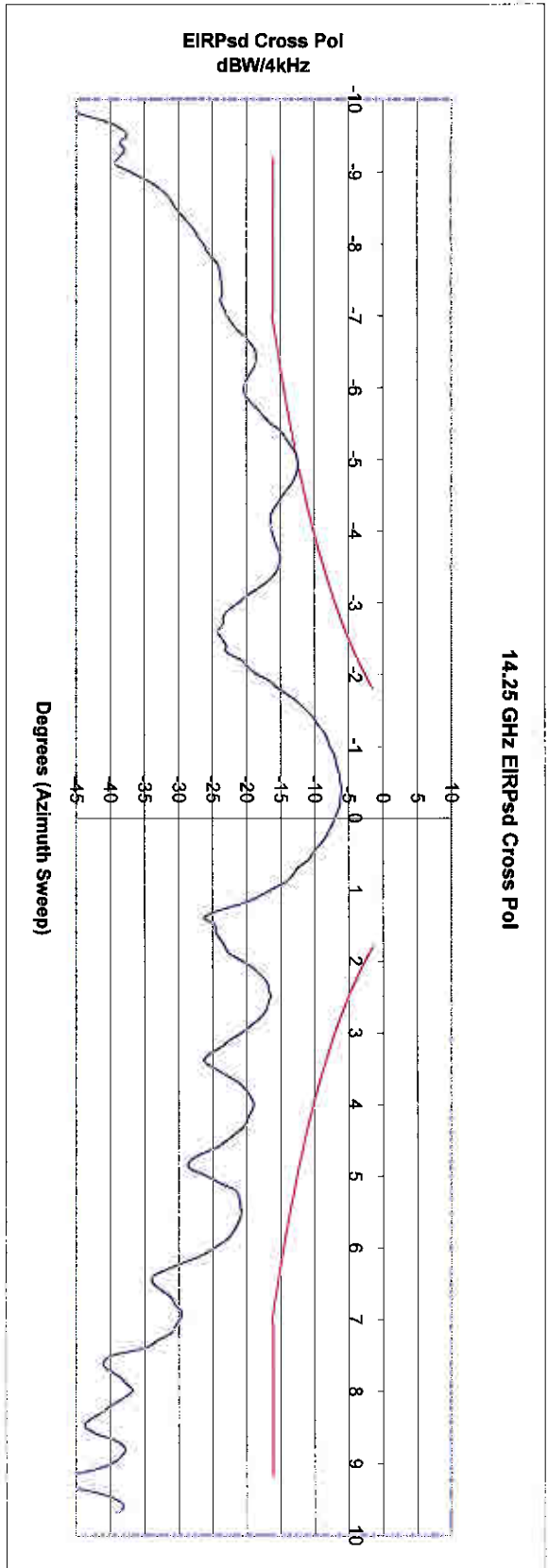
14.25 GHz EIRPsd H-Plane



Degrees (Azimuth Wide Sweep)

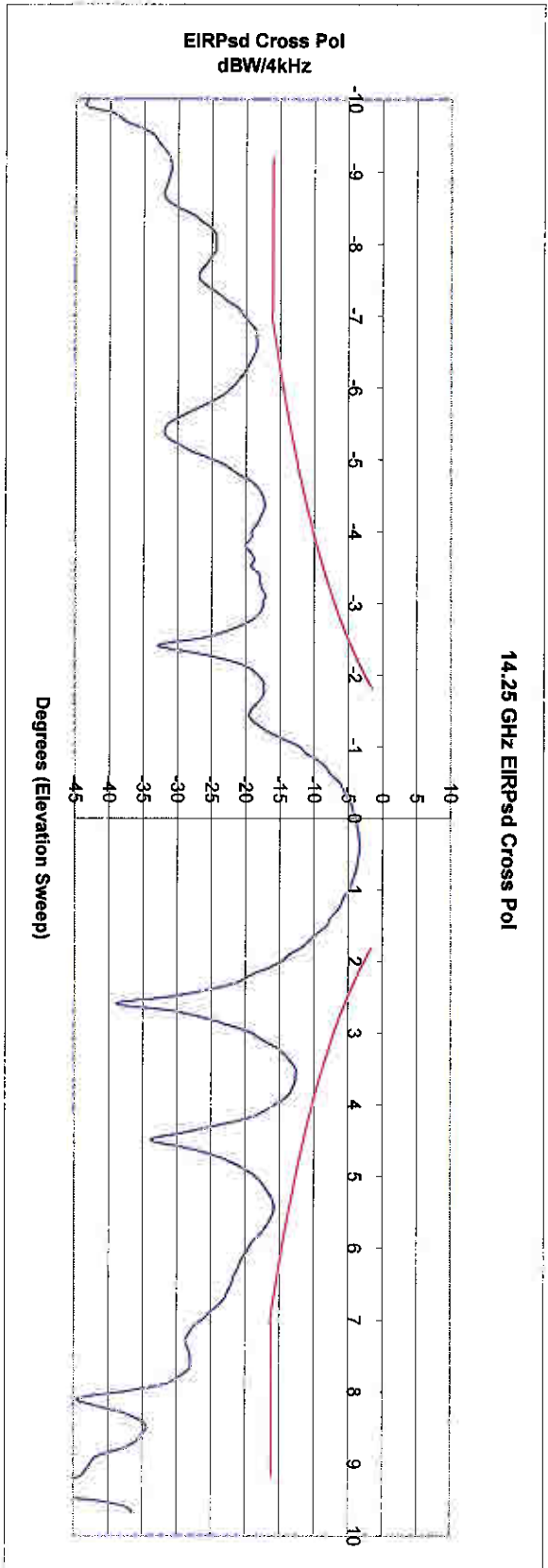
Sea Tel, Inc.
1 Meter EIRP Spectral Density @ -17.9 dBW / 4KHz input and 0.6dB radome loss

14.25 GHz EIRPsd Cross Pol

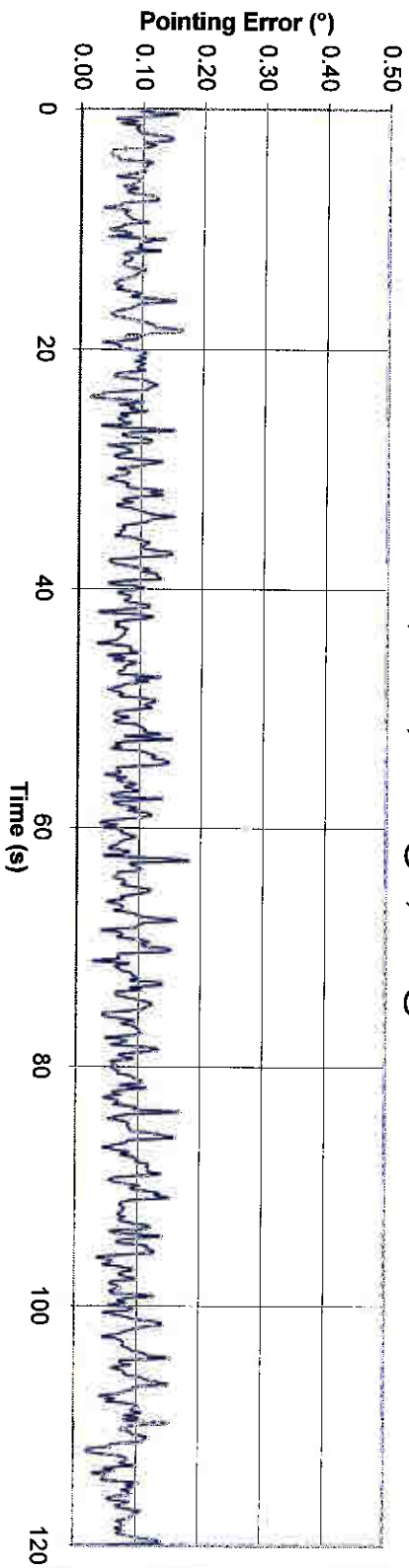


Sea Tel, Inc.
1 Meter EIRP Spectral Density @ -17.9 dBW / 4KHz Input and 0.6dB radome loss

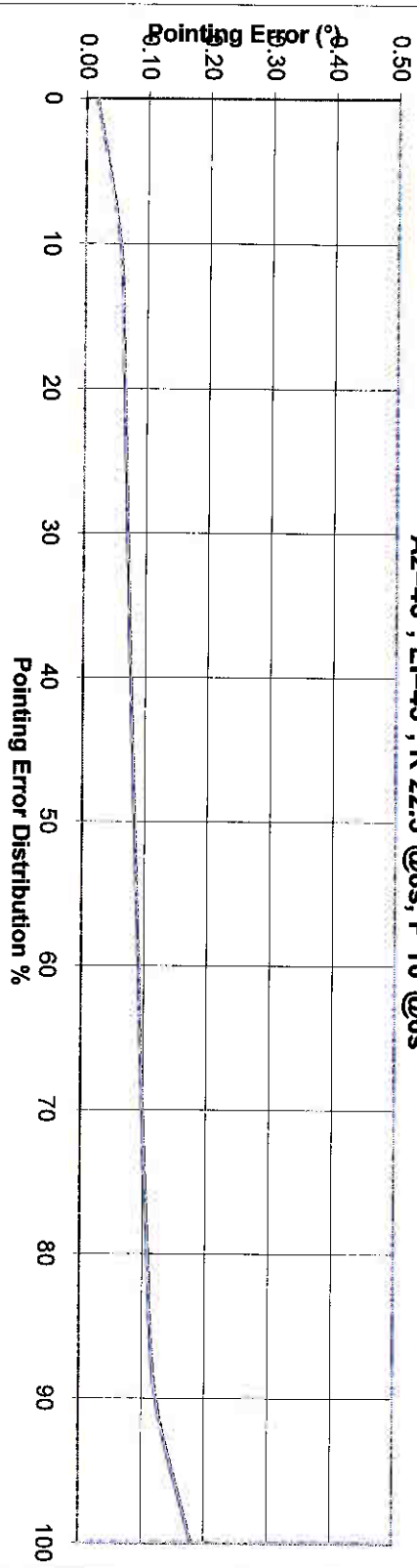
14.25 GHz EIRPsd Cross Pol



4006 Stability Accuracy Test
Az=45°, El=45°, R 22.5°@8s, P 10°@6s



4006 Stability Accuracy Test
Az=45°, El=45°, R 22.5°@8s, P 10°@6s



Ave Err (°)

0.088

RMS Err (°)

0.092

Max Err (°)

0.182