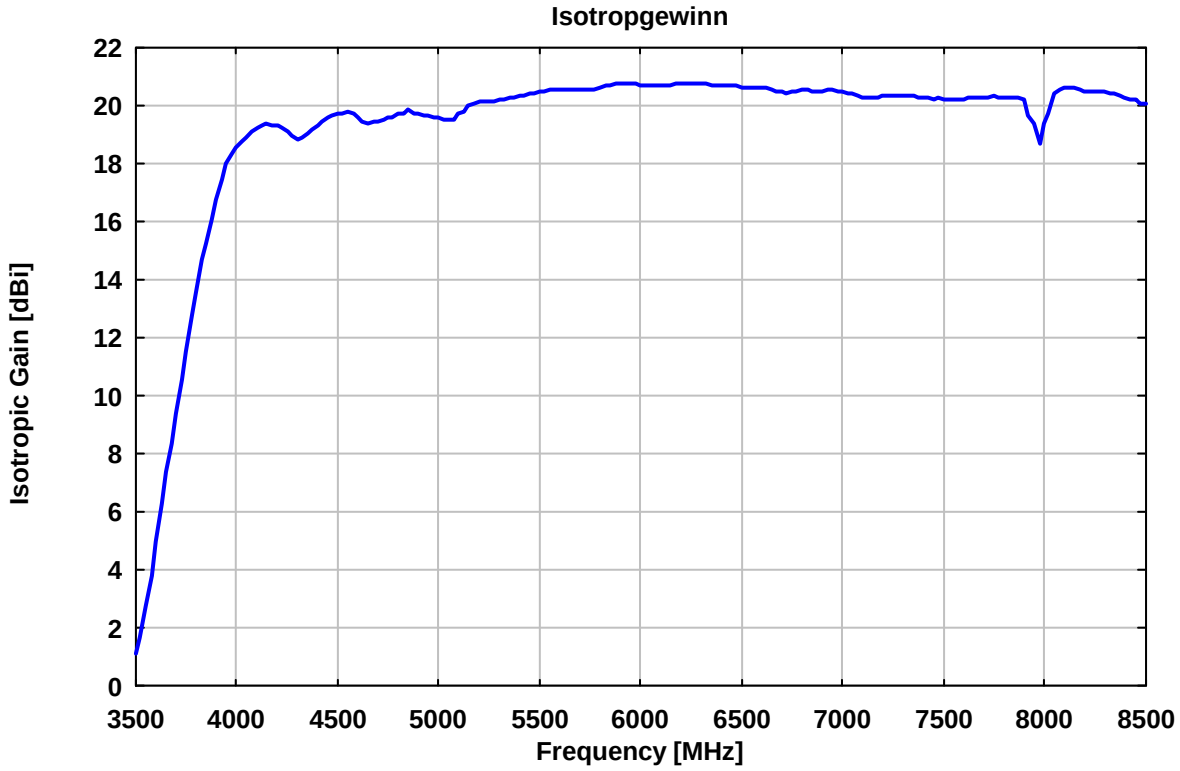
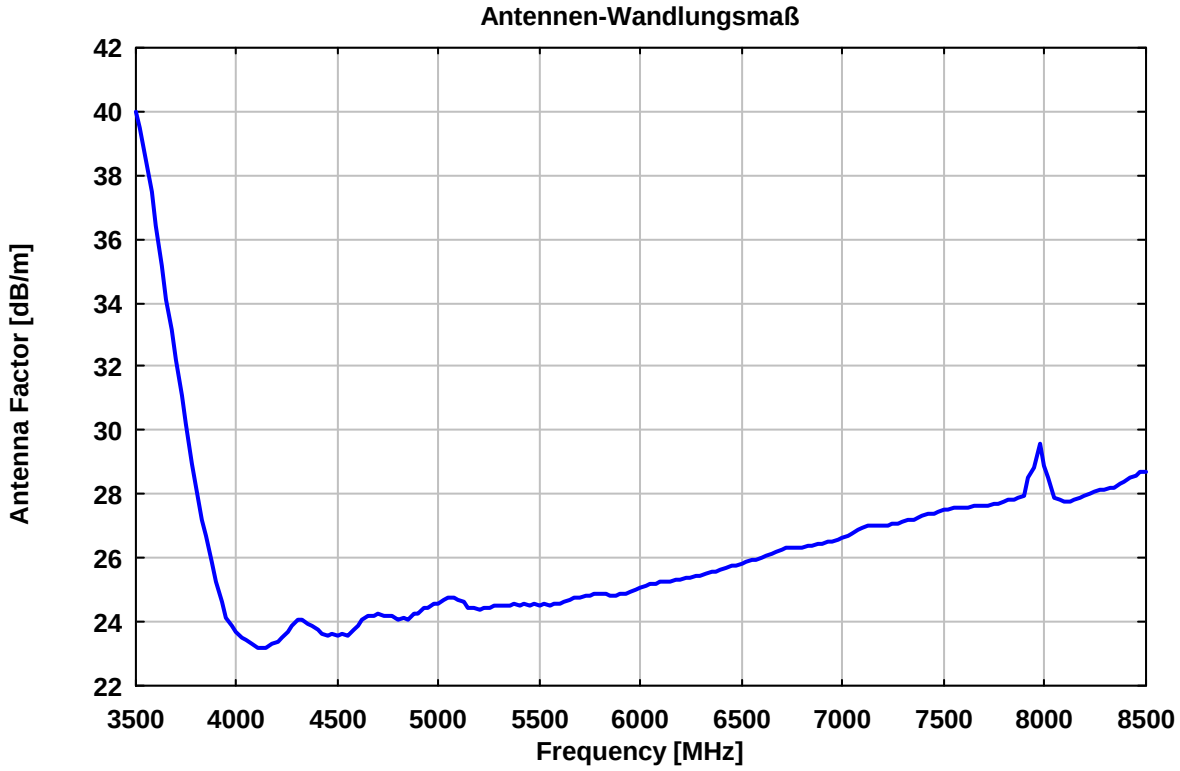
Standard Hornantenne
Standard Horn Antenna

Beschreibung:
Linear polarisierte Standard Pyramidenhornantenne mit 7/16 Koaxialanschluß für höchste Belastbarkeit.

Description:
Linear polarized standard gain horn antenna with coaxial 7/16 connector for highest power handling.

Technische Daten:		***Specifications:***
Frequenzbereich (nominell):	4-8 GHz	*Frequency Range (nominal):*
Frequenzbereich (nutzbar):	3.7-9 GHz	*Frequency Range (useable):*
Gewinn:	≈ 20 dBi	*Gain:*
Antennen-Wandlungsmaß:	23...30 dB/m	*Antenna Factor:*
Stehwellenverhältnis:	typ. < 2	*VSWR:*
Vor- Rückmaß:	> 27 dB	*Front to Back Ratio:*
3 dB Halbwertsbreite E-Ebene:	16°	*Half Power Beamwidth (E-Plane):*
3 dB Halbwertsbreite H-Ebene:	15°	*Half Power Beamwidth (H-Plane):*
6 dB Öffnungswinkel E-Ebene:	22°	*6 dB Beamwidth (E-Plane):*
6 dB Öffnungswinkel H-Ebene:	24°	*6 dB Beamwidth (H-Plane):*
Anschlußbuchse:	7/16	*Connector:*
Max. Eingangsleistung:	1 kW (4 GHz), 0.5 kW (8 GHZ)	*Max. Input Power:*
Befestigungsrohr:	22 x 200 mm	*Mounting Tube:*
Abmessungen:	226 x 303 x 695 mm	*Dimensions:*
Gewicht:	1.7 kg	*Weight:*
Material:	Aluminium	*Material:*


Isotropgewinn
Isotropic Gain [dBi]
22
20
18
16
14
12
10
8
6
4
2
0
3500
4000
4500
5000
5500
6000
6500
7000
7500
8000
8500
Frequency [MHz]

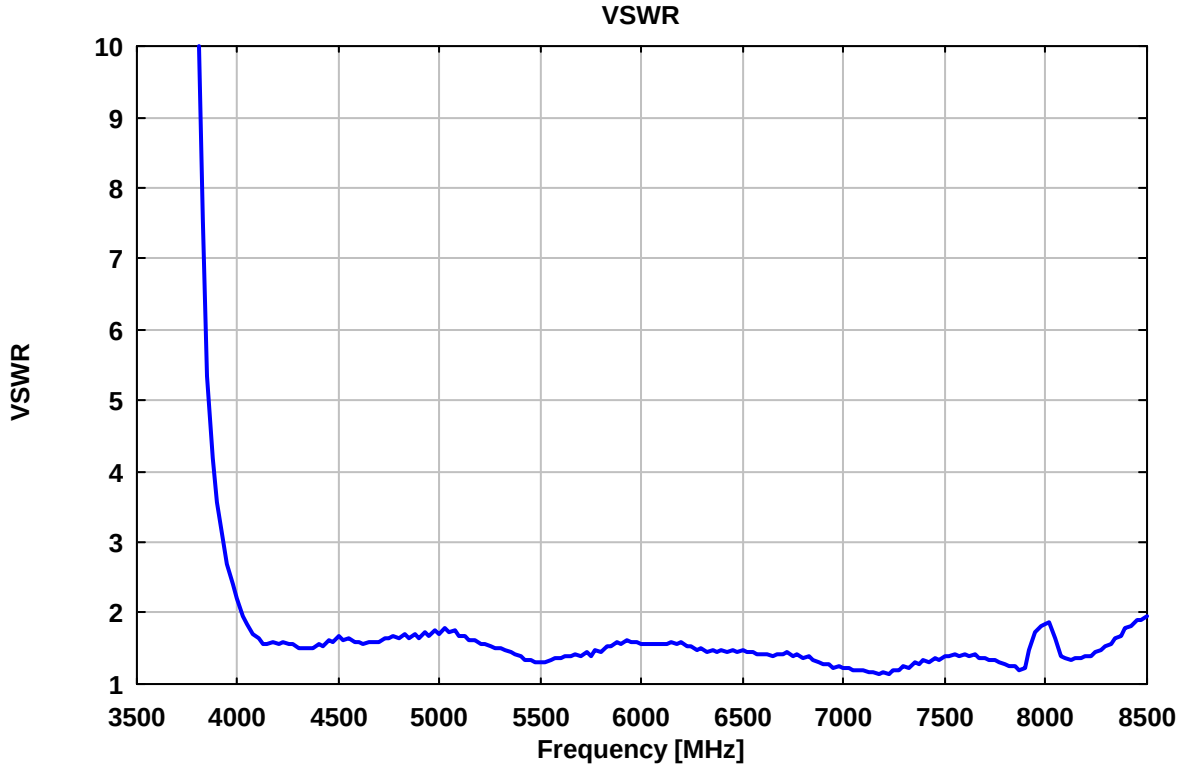

Antennen-Wandlungsmaß
Antenna Factor [dB/m]
42
40
38
36
34
32
30
28
26
24
22
3500
4000
4500
5000
5500
6000
6500
7000
7500
8000
8500
Frequency [MHz]

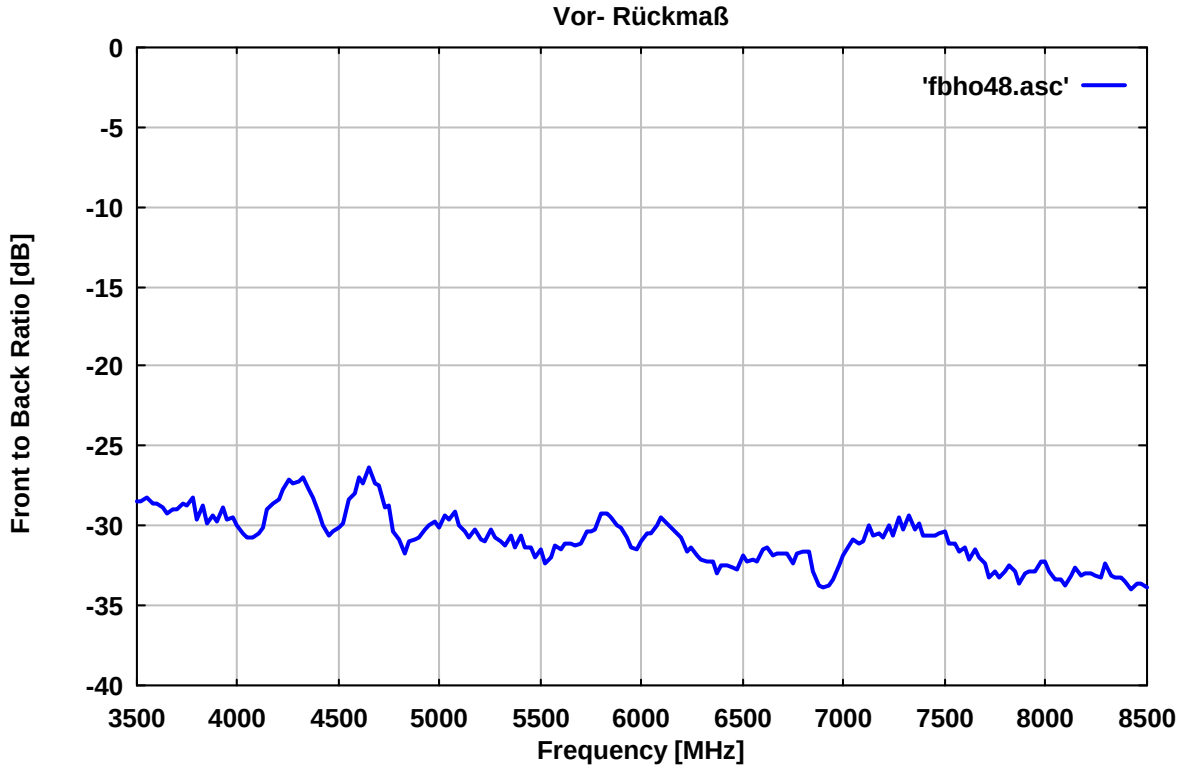
Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellen-länge	Dämpfung	Isotrop- ge-winn	Gewinn über Dipol	Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
3500.00	5.45	0.086	55.90	1.07	-1.08	40.03
3525.00	5.45	0.085	54.78	1.66	-0.49	39.50
3550.00	5.45	0.085	52.69	2.74	0.59	38.48
3575.00	5.45	0.084	50.59	3.82	1.67	37.46
3600.00	5.45	0.083	48.41	4.94	2.79	36.40
3625.00	5.45	0.083	45.87	6.25	4.09	35.16
3650.00	5.45	0.082	43.68	7.37	5.22	34.10
3675.00	5.45	0.082	41.76	8.36	6.21	33.17
3700.00	5.45	0.081	39.78	9.38	7.23	32.20
3725.00	5.45	0.081	37.49	10.55	8.40	31.09
3750.00	5.45	0.080	35.63	11.51	9.36	30.19
3775.00	5.45	0.079	33.12	12.79	10.64	28.97
3800.00	5.45	0.079	31.70	13.53	11.38	28.28
3825.00	5.45	0.078	29.46	14.68	12.53	27.19
3850.00	5.45	0.078	28.43	15.22	13.07	26.71
3875.00	5.45	0.077	26.73	16.10	13.95	25.88
3900.00	5.45	0.077	25.46	16.77	14.62	25.27
3925.00	5.45	0.076	24.11	17.47	15.32	24.63
3950.00	5.45	0.076	23.12	17.99	15.84	24.16
3975.00	5.45	0.075	22.47	18.34	16.19	23.86
4000.00	5.45	0.075	22.10	18.55	16.40	23.71
4025.00	5.45	0.075	21.70	18.78	16.63	23.53
4050.00	5.45	0.074	21.46	18.93	16.78	23.44
4075.00	5.45	0.074	21.12	19.13	16.98	23.30
4100.00	5.45	0.073	20.92	19.25	17.10	23.22
4125.00	5.45	0.073	20.83	19.32	17.17	23.21
4150.00	5.45	0.072	20.75	19.39	17.24	23.19
4175.00	5.45	0.072	20.93	19.33	17.18	23.31
4200.00	5.45	0.071	21.00	19.32	17.17	23.37
4225.00	5.45	0.071	21.17	19.26	17.11	23.48
4250.00	5.45	0.071	21.54	19.10	16.95	23.69
4275.00	5.45	0.070	21.89	18.95	16.80	23.89
4300.00	5.45	0.070	22.23	18.81	16.66	24.08
4325.00	5.45	0.069	22.08	18.90	16.75	24.04
4350.00	5.45	0.069	21.90	19.02	16.87	23.97
4375.00	5.45	0.069	21.61	19.19	17.04	23.85
4400.00	5.45	0.068	21.33	19.35	17.20	23.74
4425.00	5.45	0.068	21.12	19.48	17.33	23.65
4450.00	5.45	0.067	20.91	19.61	17.46	23.58
4475.00	5.45	0.067	20.92	19.63	17.48	23.60
4500.00	5.45	0.067	20.78	19.73	17.58	23.56
4525.00	5.45	0.066	20.85	19.72	17.57	23.61
4550.00	5.45	0.066	20.66	19.83	17.68	23.55
4575.00	5.45	0.066	21.01	19.69	17.54	23.74
4600.00	5.45	0.065	21.20	19.61	17.46	23.86
4625.00	5.45	0.065	21.60	19.44	17.29	24.09
4650.00	5.45	0.065	21.76	19.38	17.23	24.19
4675.00	5.45	0.064	21.73	19.42	17.27	24.20
4700.00	5.45	0.064	21.80	19.41	17.25	24.26
4725.00	5.45	0.063	21.65	19.50	17.35	24.21
4750.00	5.45	0.063	21.59	19.56	17.41	24.19
4775.00	5.45	0.063	21.50	19.62	17.47	24.18
MHz	m	m	dB	dBi	dBd	dB/m

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellen-länge	Dämpfung	Isotrop- ge-winn	Gewinn über Dipol	Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
4800.00	5.45	0.063	21.30	19.75	17.60	24.10
4825.00	5.45	0.062	21.35	19.74	17.59	24.15
4850.00	5.45	0.062	21.18	19.85	17.70	24.08
4875.00	5.45	0.062	21.44	19.75	17.60	24.23
4900.00	5.45	0.061	21.45	19.76	17.61	24.26
4925.00	5.45	0.061	21.74	19.64	17.49	24.43
4950.00	5.45	0.061	21.72	19.67	17.52	24.44
4975.00	5.45	0.060	21.90	19.60	17.45	24.55
5000.00	5.45	0.060	21.91	19.62	17.47	24.58
5025.00	5.45	0.060	22.12	19.54	17.39	24.70
5050.00	5.45	0.059	22.15	19.54	17.39	24.74
5075.00	5.45	0.059	22.20	19.54	17.39	24.79
5100.00	5.45	0.059	21.92	19.70	17.55	24.67
5125.00	5.45	0.059	21.77	19.80	17.65	24.61
5150.00	5.45	0.058	21.43	19.99	17.84	24.47
5175.00	5.45	0.058	21.34	20.06	17.91	24.44
5200.00	5.45	0.058	21.15	20.17	18.02	24.37
5225.00	5.45	0.057	21.24	20.15	18.00	24.43
5250.00	5.45	0.057	21.25	20.16	18.01	24.46
5275.00	5.45	0.057	21.30	20.16	18.01	24.51
5300.00	5.45	0.057	21.28	20.19	18.04	24.52
5325.00	5.45	0.056	21.27	20.21	18.06	24.53
5350.00	5.45	0.056	21.21	20.26	18.11	24.53
5375.00	5.45	0.056	21.23	20.27	18.12	24.56
5400.00	5.45	0.056	21.16	20.33	18.18	24.54
5425.00	5.45	0.055	21.16	20.35	18.20	24.56
5450.00	5.45	0.055	21.04	20.43	18.28	24.52
5475.00	5.45	0.055	21.08	20.43	18.28	24.56
5500.00	5.45	0.055	20.99	20.49	18.34	24.53
5525.00	5.45	0.054	20.99	20.51	18.36	24.55
5550.00	5.45	0.054	20.90	20.58	18.43	24.53
5575.00	5.45	0.054	20.93	20.58	18.43	24.56
5600.00	5.45	0.054	20.97	20.58	18.43	24.60
5625.00	5.45	0.053	21.06	20.56	18.41	24.66
5650.00	5.45	0.053	21.09	20.56	18.41	24.70
5675.00	5.45	0.053	21.17	20.54	18.39	24.76
5700.00	5.45	0.053	21.16	20.57	18.41	24.77
5725.00	5.45	0.052	21.24	20.54	18.39	24.83
5750.00	5.45	0.052	21.22	20.57	18.42	24.84
5775.00	5.45	0.052	21.24	20.58	18.43	24.87
5800.00	5.45	0.052	21.22	20.61	18.46	24.88
5825.00	5.45	0.052	21.12	20.68	18.53	24.85
5850.00	5.45	0.051	21.08	20.72	18.57	24.84
5875.00	5.45	0.051	21.01	20.77	18.62	24.83
5900.00	5.45	0.051	21.02	20.78	18.63	24.85
5925.00	5.45	0.051	21.06	20.78	18.63	24.89
5950.00	5.45	0.050	21.12	20.77	18.62	24.94
5975.00	5.45	0.050	21.22	20.74	18.59	25.01
6000.00	5.45	0.050	21.32	20.71	18.56	25.07
6025.00	5.45	0.050	21.40	20.68	18.53	25.13
6050.00	5.45	0.050	21.49	20.66	18.51	25.20
6075.00	5.45	0.049	21.50	20.67	18.52	25.22
6100.00	5.45	0.049	21.52	20.68	18.53	25.25
MHz	m	m	dB	dBi	dBd	dB/m

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellen-länge	Dämpfung	Isotrop- ge-winn	Gewinn über Dipol	Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
6125.00	5.45	0.049	21.48	20.72	18.57	25.25
6150.00	5.45	0.049	21.50	20.72	18.57	25.27
6175.00	5.45	0.049	21.50	20.74	18.59	25.29
6200.00	5.45	0.048	21.54	20.74	18.59	25.33
6225.00	5.45	0.048	21.57	20.74	18.59	25.36
6250.00	5.45	0.048	21.61	20.74	18.59	25.40
6275.00	5.45	0.048	21.64	20.74	18.59	25.43
6300.00	5.45	0.048	21.69	20.74	18.58	25.47
6325.00	5.45	0.047	21.72	20.74	18.59	25.50
6350.00	5.45	0.047	21.82	20.70	18.55	25.57
6375.00	5.45	0.047	21.82	20.72	18.57	25.59
6400.00	5.45	0.047	21.92	20.69	18.54	25.66
6425.00	5.45	0.047	21.94	20.69	18.54	25.68
6450.00	5.45	0.047	22.00	20.68	18.53	25.73
6475.00	5.45	0.046	22.04	20.68	18.53	25.77
6500.00	5.45	0.046	22.12	20.65	18.50	25.82
6525.00	5.45	0.046	22.21	20.63	18.48	25.88
6550.00	5.45	0.046	22.25	20.62	18.47	25.92
6575.00	5.45	0.046	22.29	20.62	18.47	25.96
6600.00	5.45	0.045	22.34	20.61	18.46	26.00
6625.00	5.45	0.045	22.42	20.59	18.43	26.06
6650.00	5.45	0.045	22.54	20.54	18.39	26.13
6675.00	5.45	0.045	22.67	20.50	18.35	26.21
6700.00	5.45	0.045	22.77	20.46	18.31	26.28
6725.00	5.45	0.045	22.83	20.45	18.30	26.33
6750.00	5.45	0.044	22.80	20.48	18.33	26.33
6775.00	5.45	0.044	22.78	20.50	18.35	26.34
6800.00	5.45	0.044	22.74	20.54	18.39	26.33
6825.00	5.45	0.044	22.80	20.53	18.38	26.37
6850.00	5.45	0.044	22.86	20.51	18.36	26.42
6875.00	5.45	0.044	22.90	20.51	18.36	26.46
6900.00	5.45	0.043	22.92	20.51	18.36	26.48
6925.00	5.45	0.043	22.91	20.54	18.39	26.49
6950.00	5.45	0.043	22.94	20.54	18.38	26.52
6975.00	5.45	0.043	23.01	20.51	18.36	26.58
7000.00	5.45	0.043	23.10	20.49	18.33	26.64
7025.00	5.45	0.043	23.23	20.44	18.28	26.72
7050.00	5.45	0.043	23.35	20.39	18.24	26.79
7075.00	5.45	0.042	23.47	20.35	18.20	26.87
7100.00	5.45	0.042	23.60	20.30	18.15	26.95
7125.00	5.45	0.042	23.67	20.28	18.13	27.00
7150.00	5.45	0.042	23.68	20.29	18.14	27.02
7175.00	5.45	0.042	23.66	20.31	18.16	27.02
7200.00	5.45	0.042	23.61	20.35	18.20	27.02
7225.00	5.45	0.042	23.62	20.36	18.21	27.04
7250.00	5.45	0.041	23.64	20.37	18.22	27.06
7275.00	5.45	0.041	23.71	20.35	18.20	27.11
7300.00	5.45	0.041	23.75	20.34	18.19	27.14
7325.00	5.45	0.041	23.82	20.32	18.17	27.19
7350.00	5.45	0.041	23.83	20.33	18.18	27.21
7375.00	5.45	0.041	23.92	20.30	18.15	27.27
7400.00	5.45	0.041	23.98	20.29	18.14	27.32
7425.00	5.45	0.040	24.04	20.27	18.12	27.36
MHz	m	m	dB	dBi	dBd	dB/m

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellen-länge	Dämpfung	Isotrop- ge-winn	Gewinn über Dipol	Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
7450.00	5.45	0.040	24.13	20.24	18.09	27.42
7475.00	5.45	0.040	24.14	20.25	18.10	27.44
7500.00	5.45	0.040	24.29	20.19	18.04	27.53
7525.00	5.45	0.040	24.29	20.21	18.06	27.54
7550.00	5.45	0.040	24.33	20.20	18.05	27.58
7575.00	5.45	0.040	24.28	20.24	18.09	27.57
7600.00	5.45	0.039	24.31	20.24	18.09	27.60
7625.00	5.45	0.039	24.31	20.25	18.10	27.61
7650.00	5.45	0.039	24.31	20.27	18.12	27.63
7675.00	5.45	0.039	24.31	20.28	18.13	27.64
7700.00	5.45	0.039	24.30	20.30	18.15	27.65
7725.00	5.45	0.039	24.32	20.30	18.15	27.67
7750.00	5.45	0.039	24.30	20.33	18.18	27.68
7775.00	5.45	0.039	24.36	20.31	18.16	27.72
7800.00	5.45	0.038	24.41	20.30	18.15	27.76
7825.00	5.45	0.038	24.48	20.28	18.13	27.81
7850.00	5.45	0.038	24.51	20.28	18.13	27.84
7875.00	5.45	0.038	24.60	20.25	18.10	27.90
7900.00	5.45	0.038	24.69	20.21	18.06	27.96
7925.00	5.45	0.038	25.84	19.65	17.50	28.55
7950.00	5.45	0.038	26.39	19.39	17.24	28.83
7975.00	5.45	0.038	27.81	18.70	16.55	29.56
8000.00	5.45	0.038	26.43	19.40	17.25	28.88
8025.00	5.45	0.037	25.75	19.76	17.61	28.55
8050.00	5.45	0.037	24.42	20.43	18.28	27.90
8075.00	5.45	0.037	24.19	20.56	18.41	27.80
8100.00	5.45	0.037	24.13	20.61	18.45	27.78
8125.00	5.45	0.037	24.07	20.65	18.50	27.77
8150.00	5.45	0.037	24.21	20.59	18.44	27.85
8175.00	5.45	0.037	24.27	20.57	18.42	27.90
8200.00	5.45	0.037	24.41	20.52	18.37	27.98
8225.00	5.45	0.036	24.48	20.49	18.34	28.03
8250.00	5.45	0.036	24.54	20.48	18.33	28.07
8275.00	5.45	0.036	24.61	20.46	18.31	28.12
8300.00	5.45	0.036	24.60	20.48	18.33	28.12
8325.00	5.45	0.036	24.69	20.44	18.29	28.18
8350.00	5.45	0.036	24.76	20.42	18.27	28.23
8375.00	5.45	0.036	24.97	20.33	18.18	28.35
8400.00	5.45	0.036	25.06	20.30	18.15	28.41
8425.00	5.45	0.036	25.23	20.22	18.07	28.51
8450.00	5.45	0.036	25.33	20.19	18.04	28.57
8475.00	5.45	0.035	25.55	20.09	17.94	28.69
8500.00	5.45	0.035	25.59	20.08	17.93	28.72
MHz	m	m	dB	dBi	dBd	dB/m


VSWR
VSWR
10
9
8
7
6
5
4
3
2
1
3500
4000
4500
5000
5500
6000
6500
7000
7500
8000
8500
Frequency [MHz]


Vor- Rückmaß
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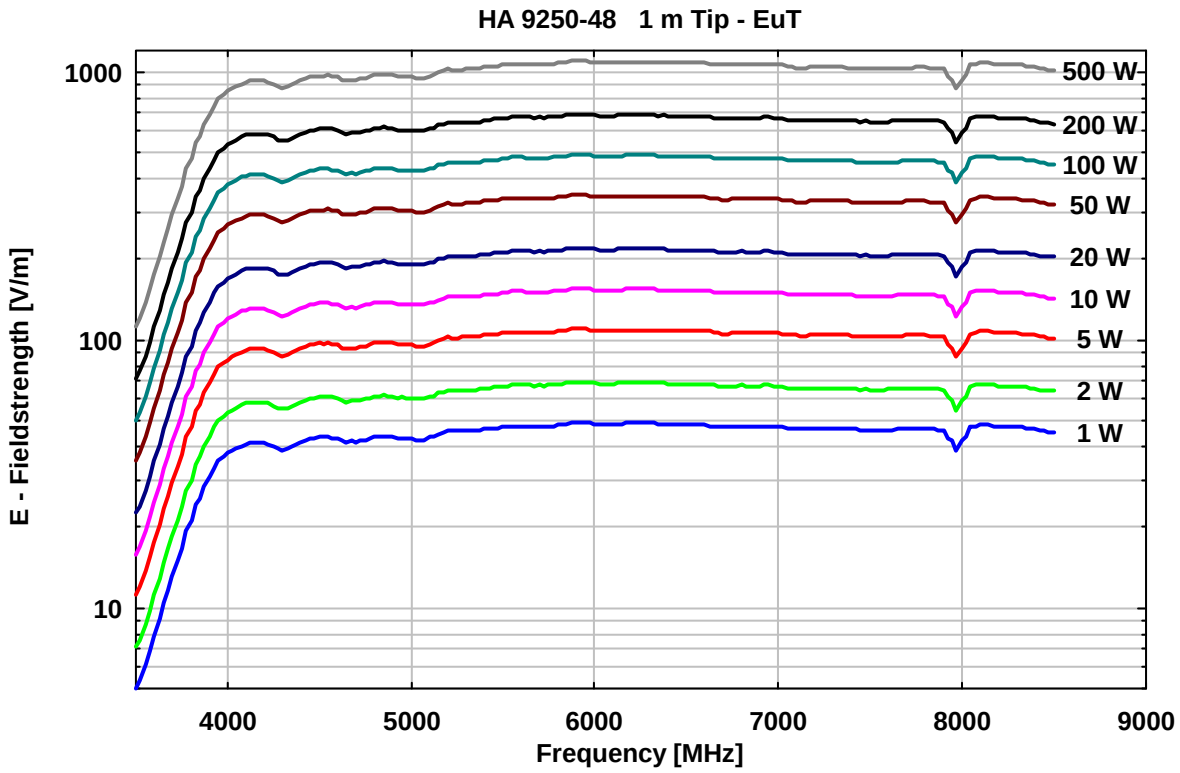
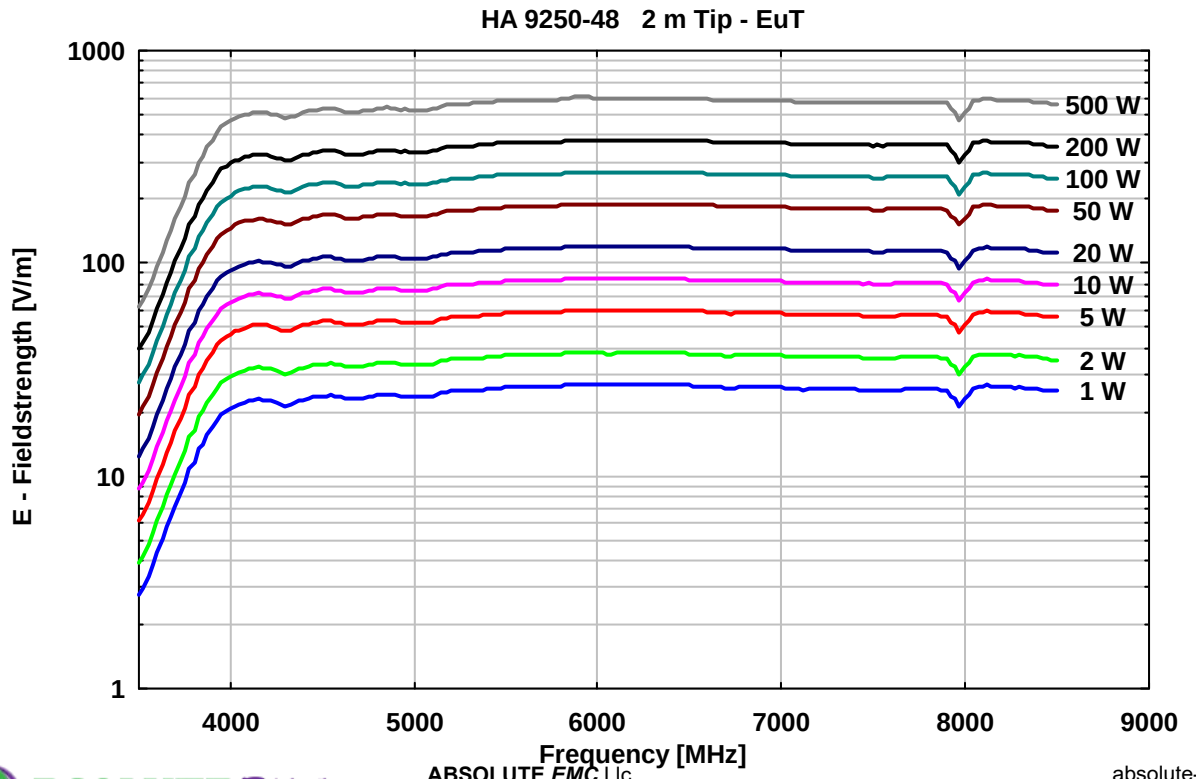
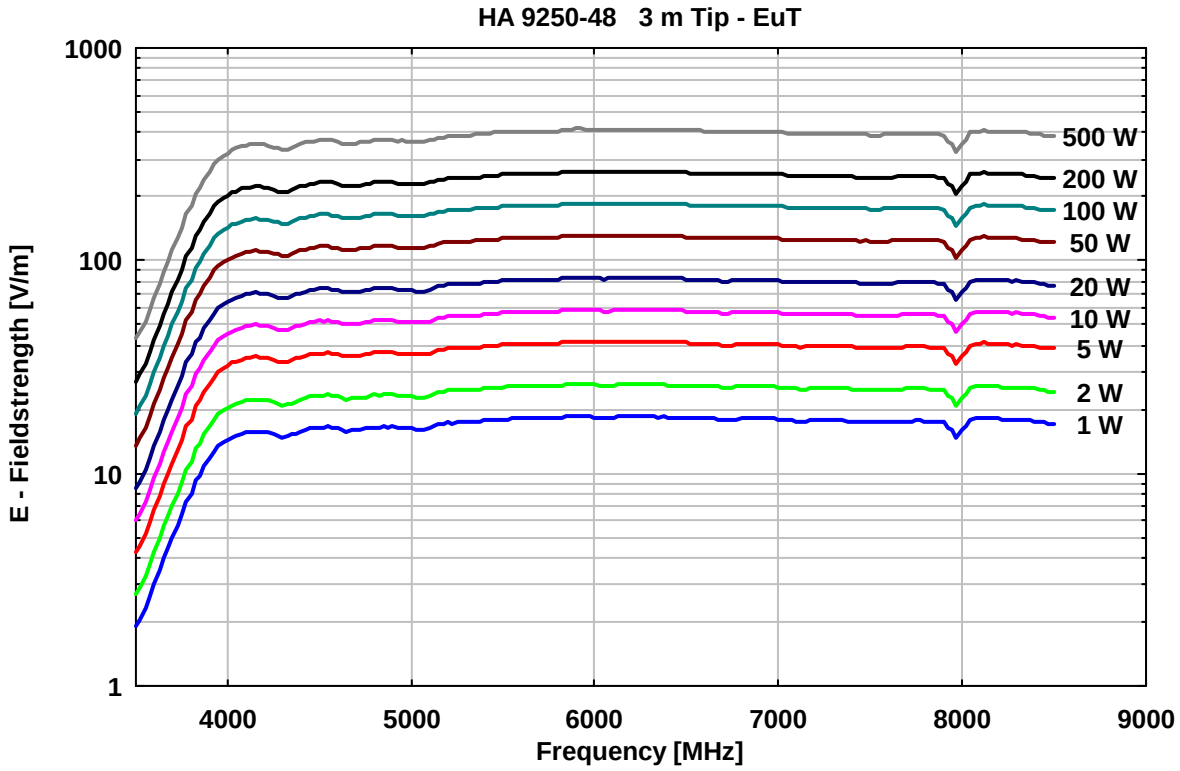
Front to Back Ratio [dB]
0
-5
-10
-15
-20
-25
-30
-35
-40
3500
4000
4500
5000
5500
6000
6500
7000
7500
8000
8500
Frequency [MHz]

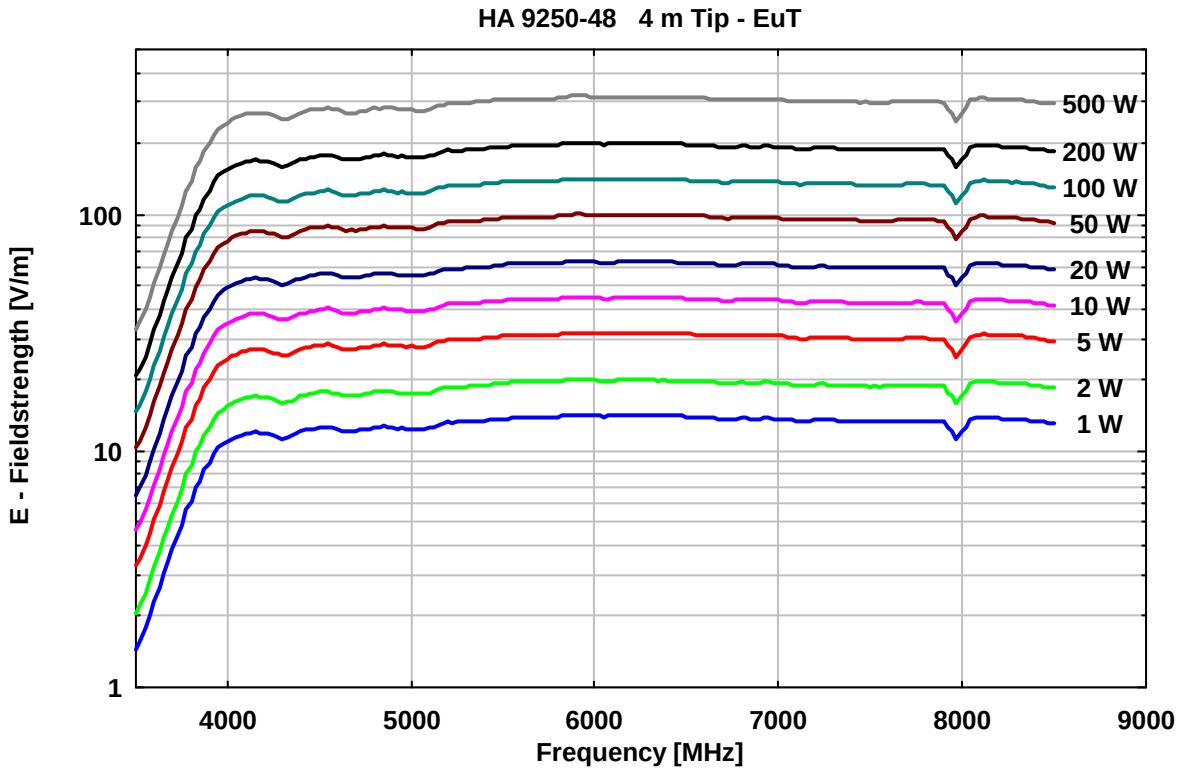
Erzeugte Elektrische Feldstärke vor der Antennenspitze
unmoduliert, Eingangsleistung an 7/16-Buchse, Reflexionsfreie Umgebung
Generated Electrical Fieldstrength in front of Antenna Tip
no modulation, Input Power at 7/16-Connector, Anechoic Environmental Conditions

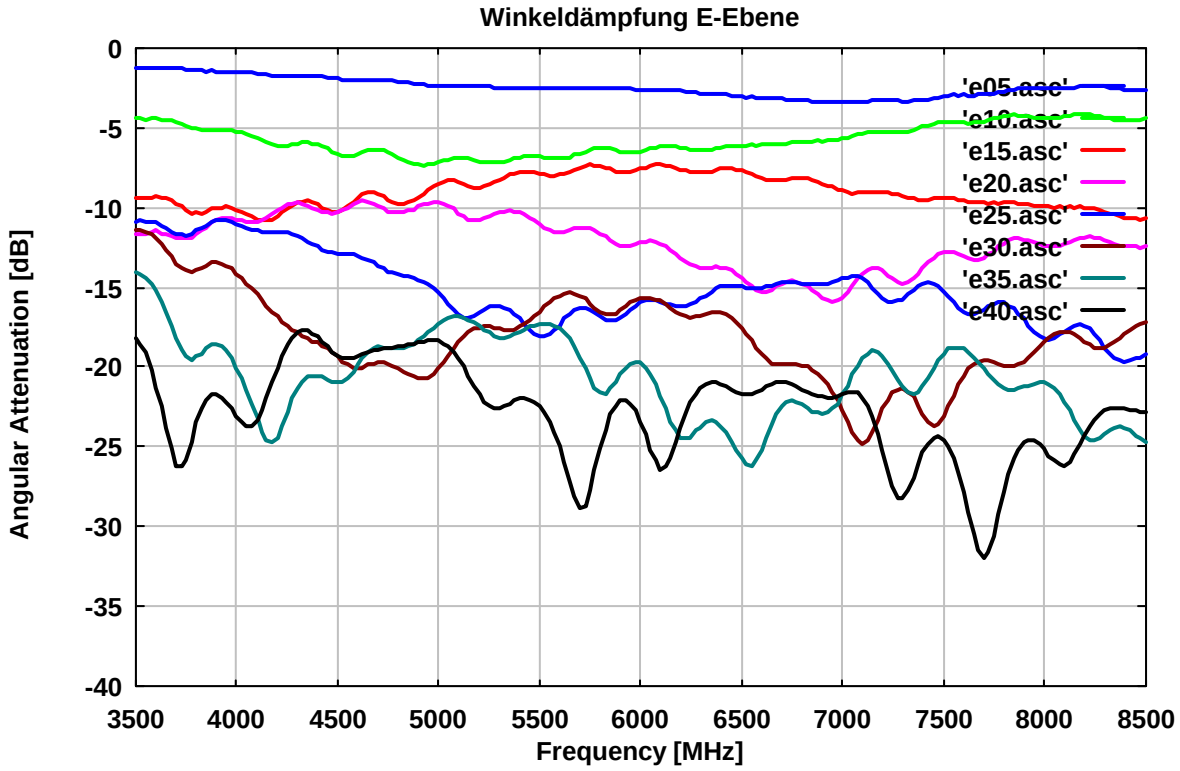


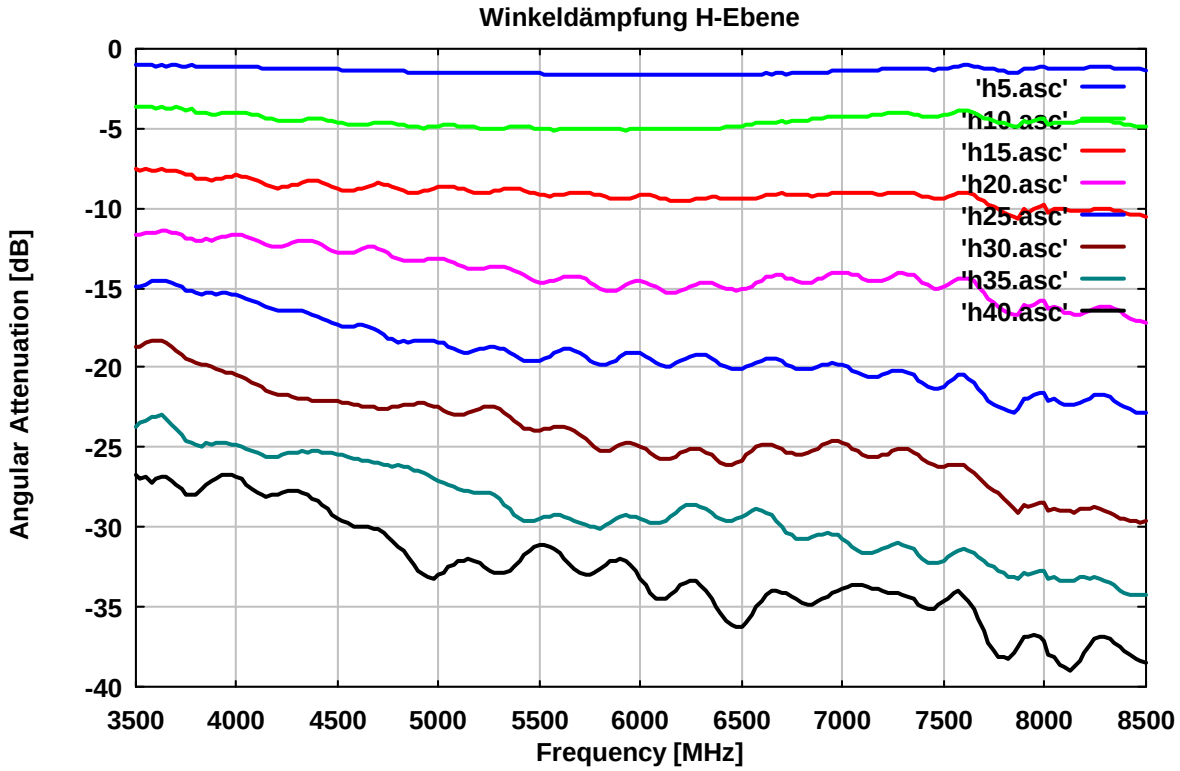


Erzeugte Elektrische Feldstärke vor der Antennenspitze
unmoduliert, Eingangsleistung an 7/16-Buchse, Reflexionsfreie Umgebung
Generated Electrical Fieldstrength in front of Antenna Tip
no modulation, Input Power at 7/16-Connector, Anechoic Environmental Conditions









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