TX station: 8xBkv3
Gain solid integration : enabled

Site Name: Labelitaly

General data of Antenna System

TX station	8xBkv3
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	200.000
Antenna system central frequency (MHz)	200.000
Antenna base diagrams type 1	LABEL ITALY-BKV_3 YAGI 3 ELEM. VHF WB
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.88
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	10.0
Mast cross section (T/Q/C)	C
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

Information about antennas used in the System

	Antenna type 1
Manufacturer	LABEL ITALY
Antenna model	BKV_3 YAGI 3 ELEM.
Band start(MHz)	174
Band stop(MHz)	225
diagrams Frequency(MHz)	200
Polariz (H,V,C,X)	V
Vertical dist (cm)	135
Height (cm)	88
Width (cm)	6
Thickness (cm)	79
Weight (Kg)	5
Maximum power (KW)	2
Gain (dBd)	5
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	20
R.C.Phase (°)	0

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Geometr. and electrical data of Antenna System

	Power (%)	*Tilt (°)*	*Az. (°/N)*	*Phase (°)*	*V dist. (m)*	*Scr-d (cm)*	*Scr-Az (°/N)*	*Rot. (1÷4)*	*Type (1÷2)*	*L cables (cm)*	*Car. phase (°)*
1	12.500	0	0	0 +0.0	4.55	0.0	0.0	1	1	400.0	0.0
2	12.500	0	0	0 +0.0	3.25	0.0	0.0	1	1	400.0	0.0
3	12.500	0	0	0 +0.0	1.95	0.0	0.0	1	1	400.0	0.0
4	12.500	0	0	0 +0.0	0.65	0.0	0.0	1	1	400.0	0.0
5	12.500	0	0	0 +0.0	-0.65	0.0	0.0	1	1	400.0	0.0
6	12.500	0	0	0 +0.0	-1.95	0.0	0.0	1	1	400.0	0.0
7	12.500	0	0	0 +0.0	-3.25	0.0	0.0	1	1	400.0	0.0
8	12.500	0	0	0 +0.0	-4.55	0.0	0.0	1	1	400.0	0.0

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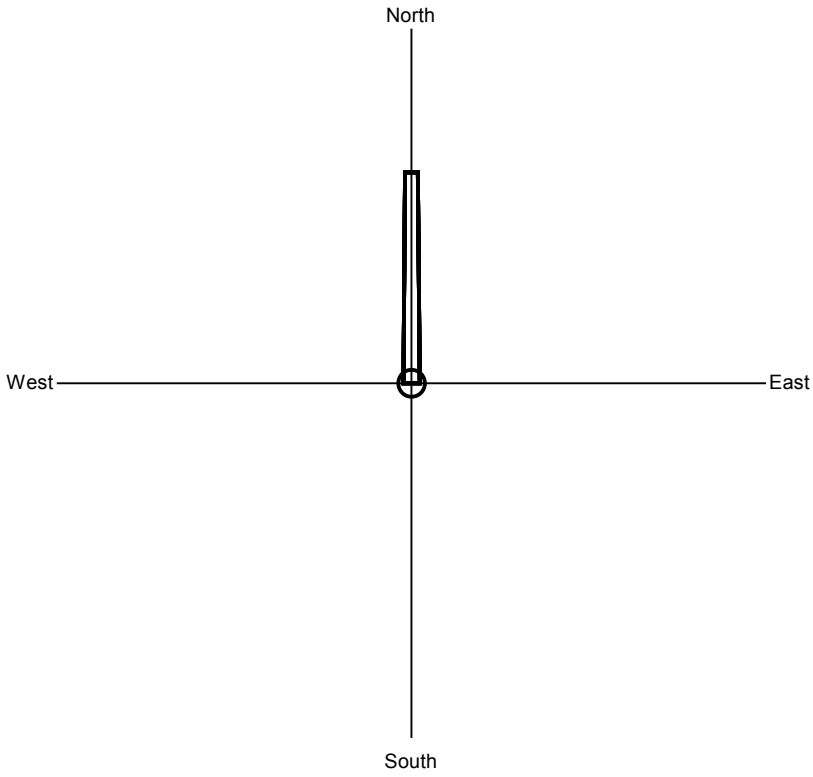
Plan of antenna system



Side of antenna system

TX station: 8xBkv3
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Antennas arrays data

A. Antennas array azimuth (°/N)	0
B. Number of antennas	8
C. Nominal power supply (W)	1000.00
D. Losses (addit. + cables) (dB)	0.0
E. Effective power supply (W)	1000.00
F. Theor. maximum gain (dBd)	13.27
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	13.27
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	13.27
K. Effec. max gain (times)	21.22
L. Effec. max power [E * K] (KW)	21.2206
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	0

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	13.3	90	7.2	180	-0.1	270	7.2
10	13.2	100	5.5	190	-0.1	280	8.7
20	13.1	110	3.9	200	0.0	290	10.0
30	12.8	120	2.4	210	0.1	300	11.0
40	12.4	130	1.5	220	0.7	310	11.8
50	11.8	140	0.7	230	1.5	320	12.4
60	11.0	150	0.1	240	2.4	330	12.8
70	10.0	160	0.0	250	3.9	340	13.1
80	8.7	170	-0.1	260	5.5	350	13.2

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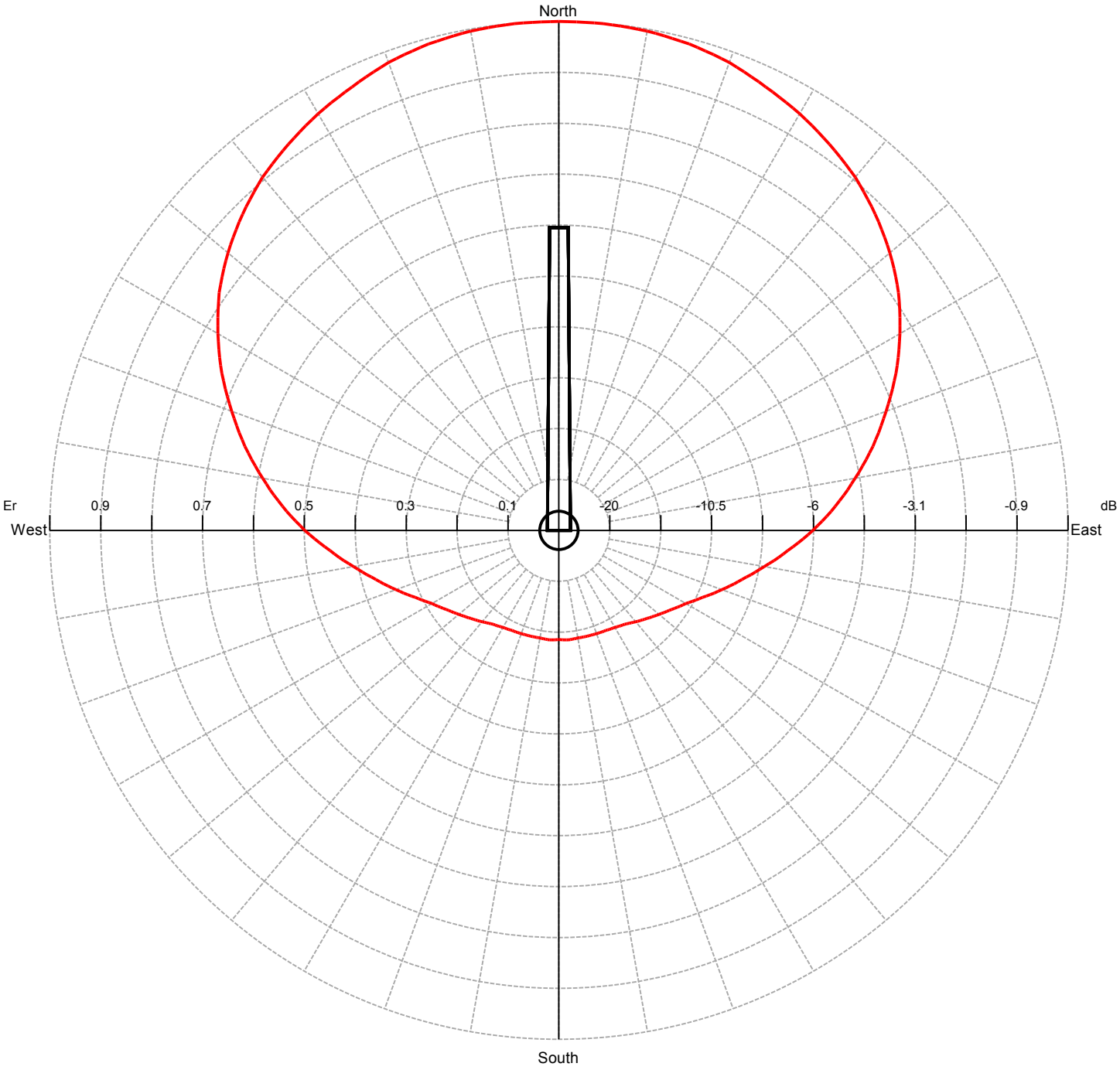
Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 13.27 ERP T.Max(KW): 21.2206 ERP E.Max(KW): 21.2206

TX station: 8xBkv3

Frequency: 200.00 MHz

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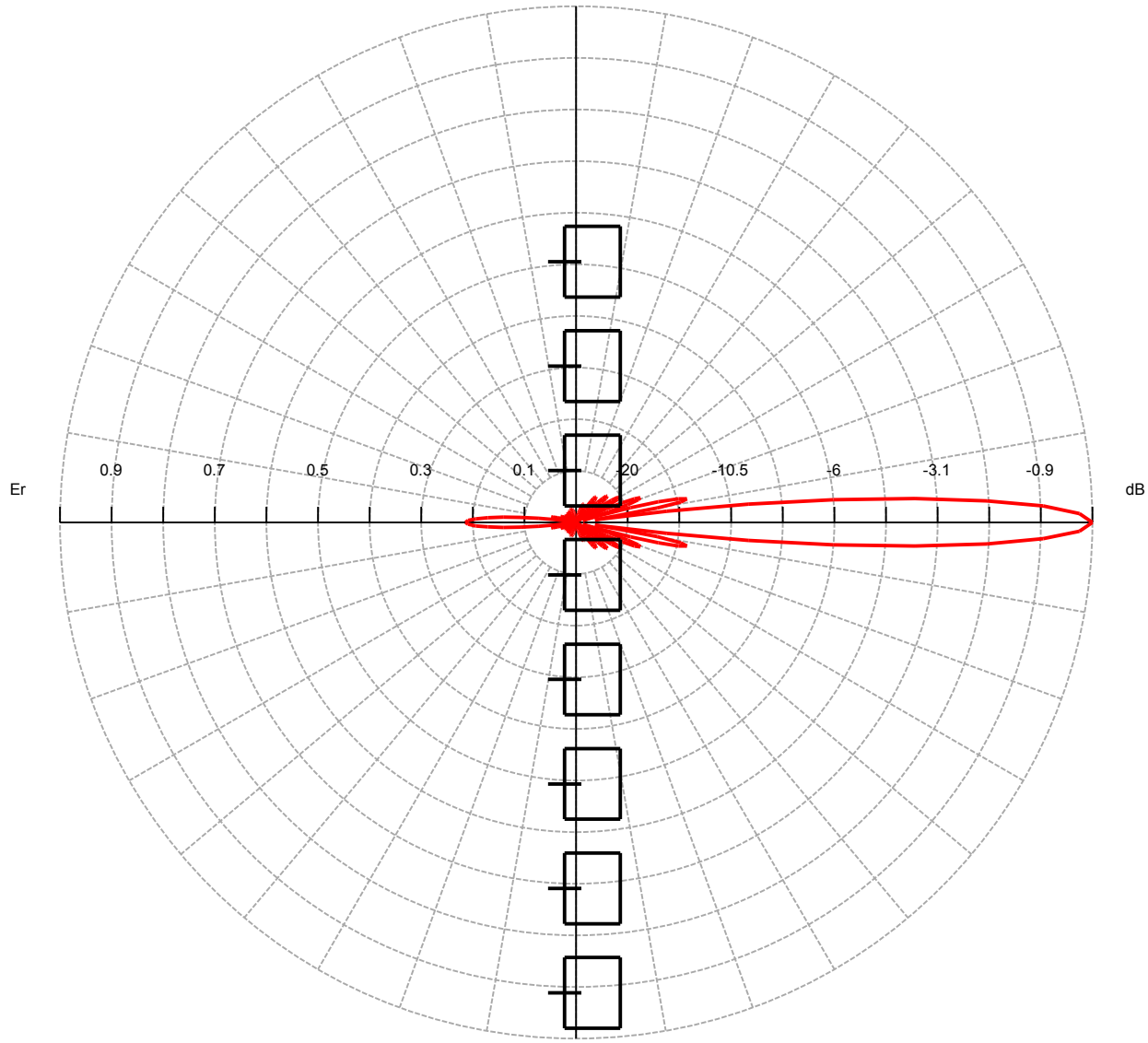
Gain solid integration : enabled

Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 13.27 ERP T.Max(KW): 21.2206 ERP E.Max(KW): 21.2206