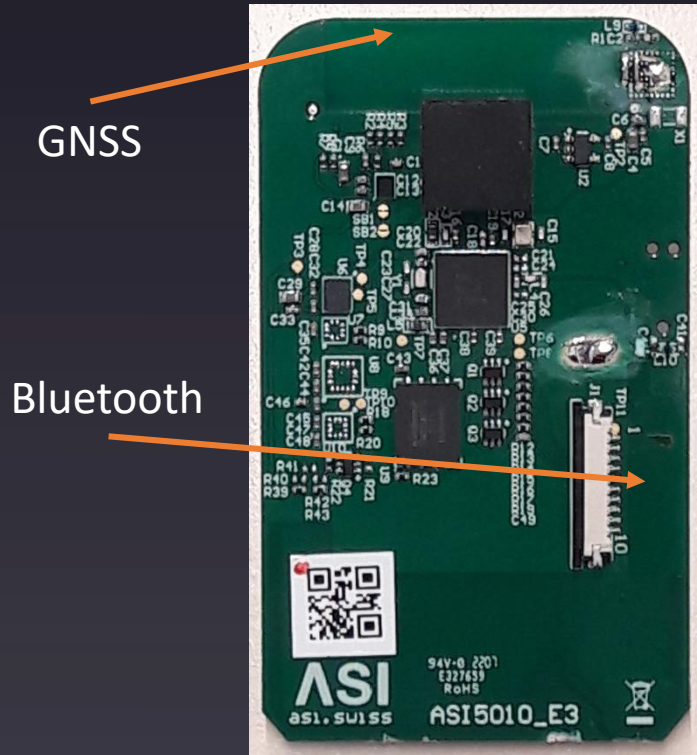




ASI Advanced Sport Instruments
AdMos Tracker



Sample

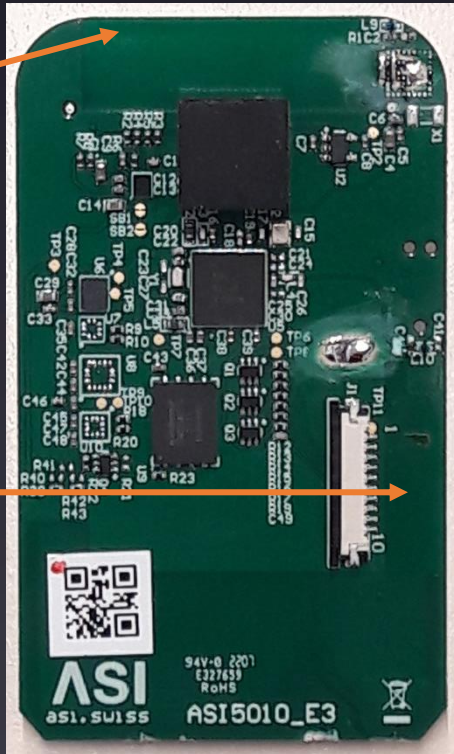




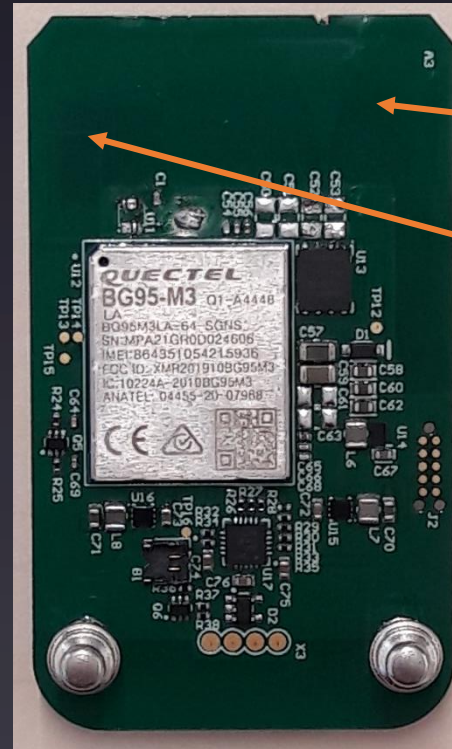
Sample

GNSS
L = 27 mm

Bluetooth
L = 19.5 mm



Cellular Antennas
Low Band L = 72 mm
High Band L = 14 mm

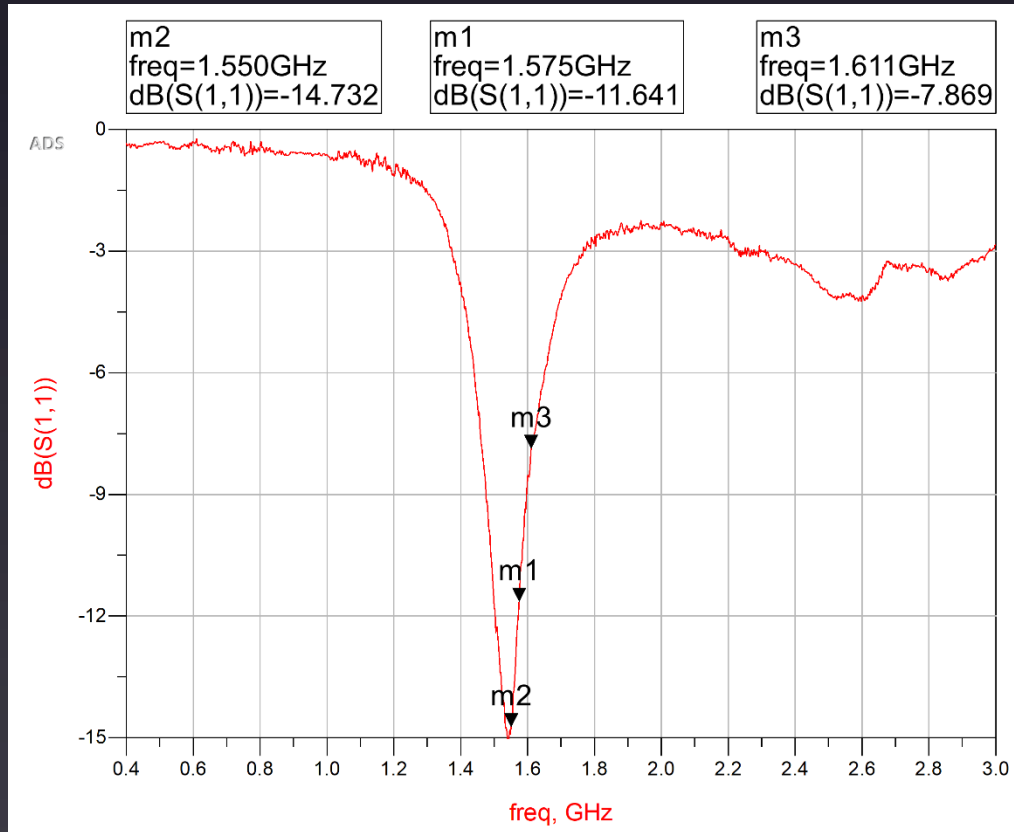


RF Measurement



Antenna Matching

GNSS Antenna Matching



Antenna performance is good

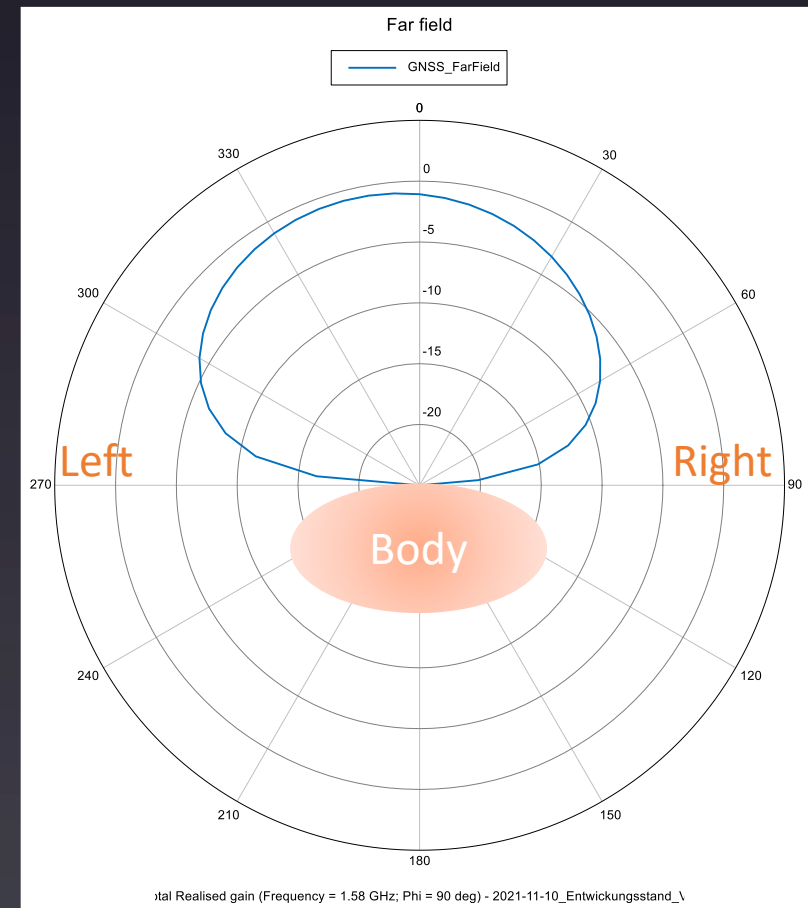
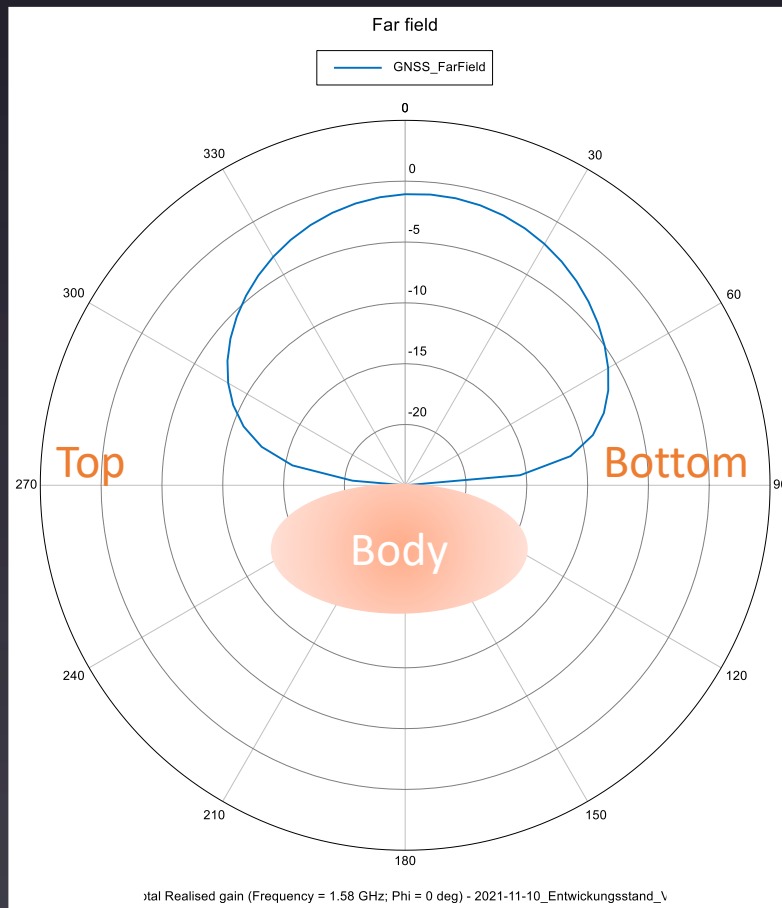


GNSS Antenna Pattern

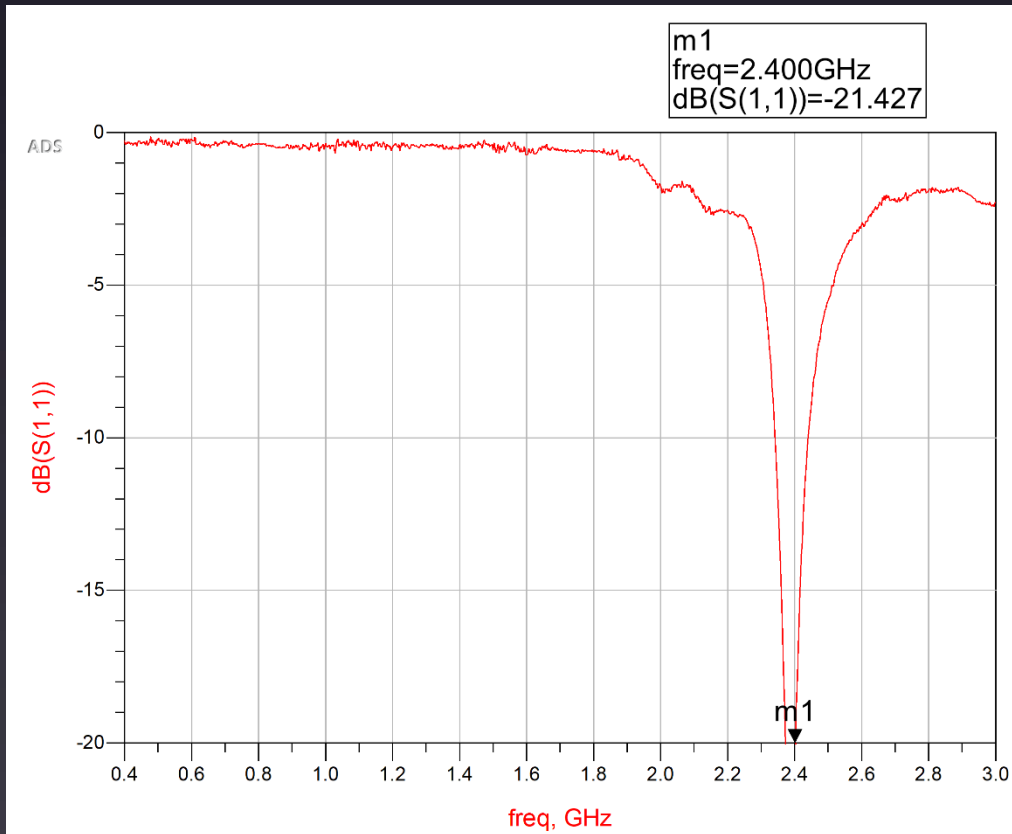
Elevation

Max Gain = -0,8 dBi
with Body

Azimuth



Bluetooth Antenna Matching



Antenna performance is good

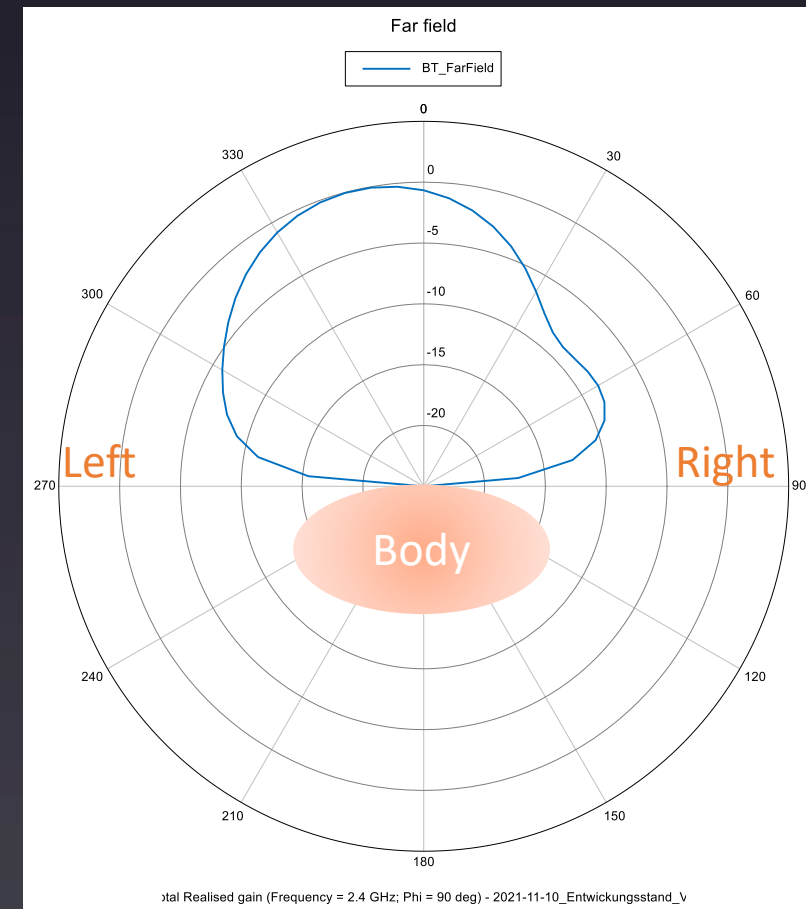
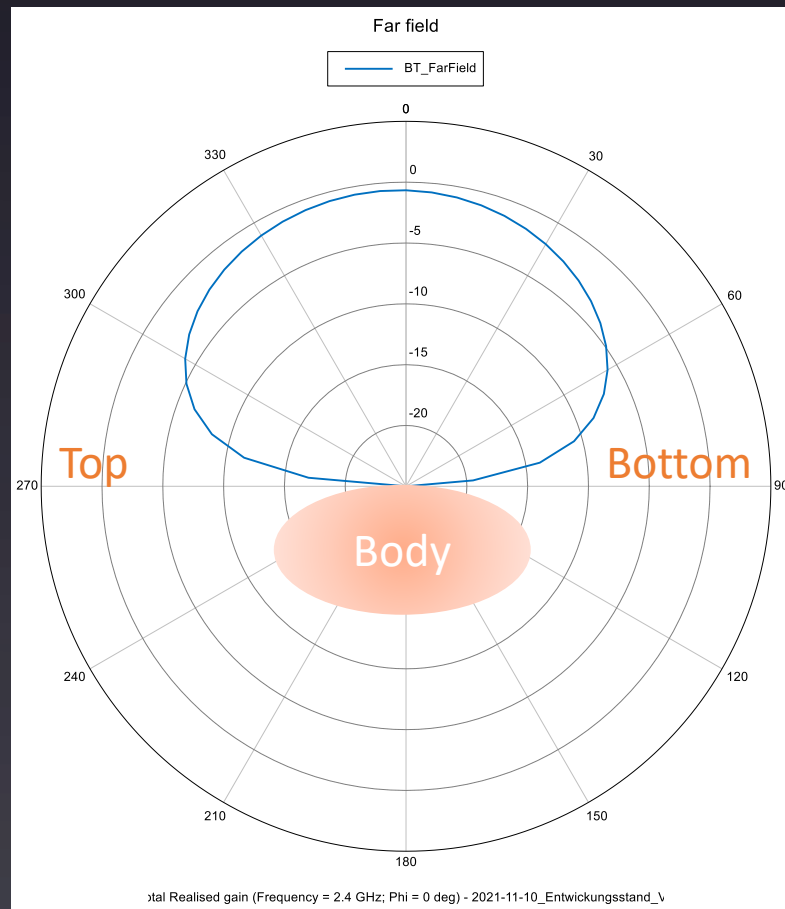


BT Antenna Pattern

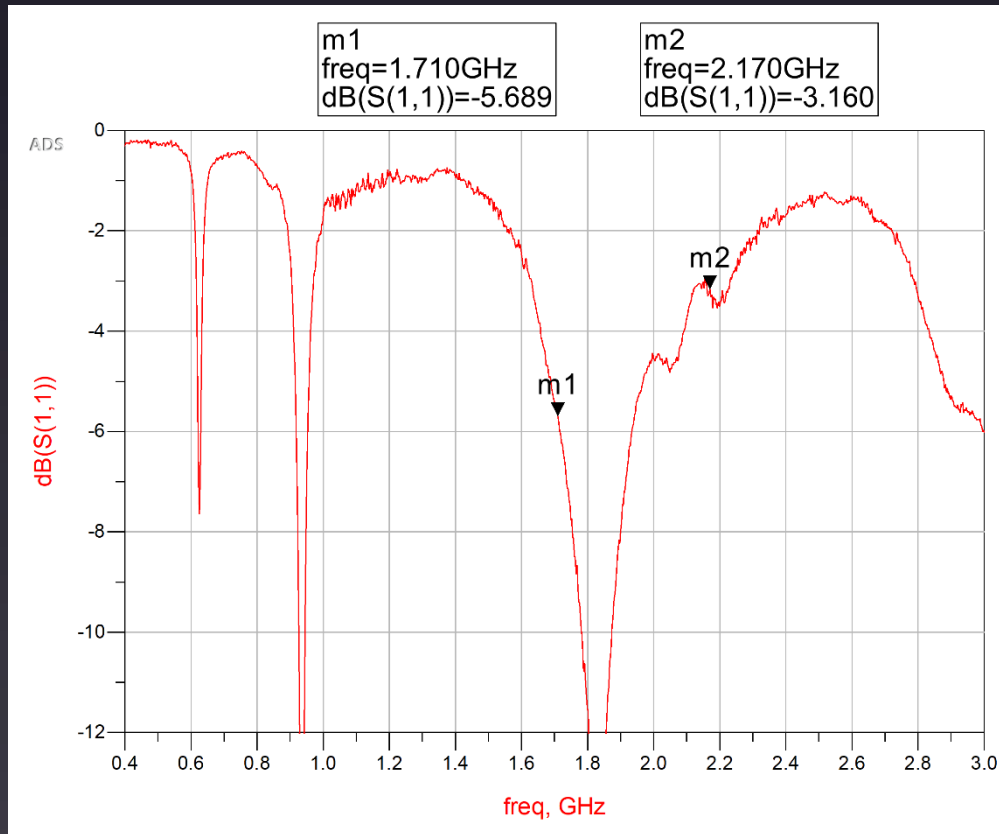
Elevation

Max Gain = 1 dBi
with Body

Azimuth



Cellular Communication



Antenna performance is good

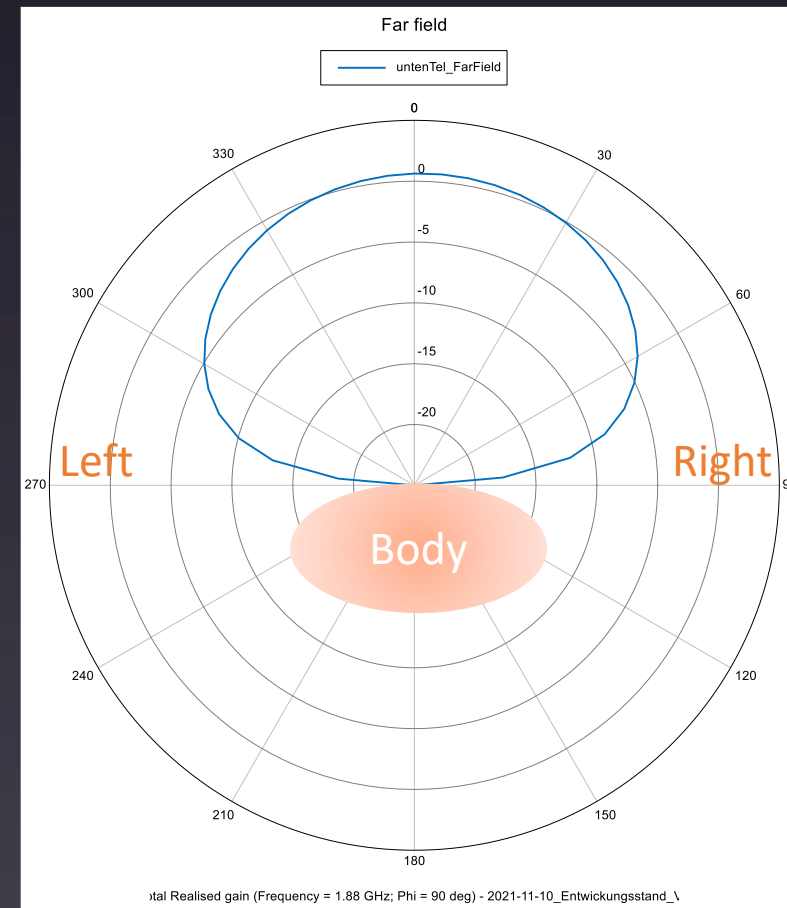
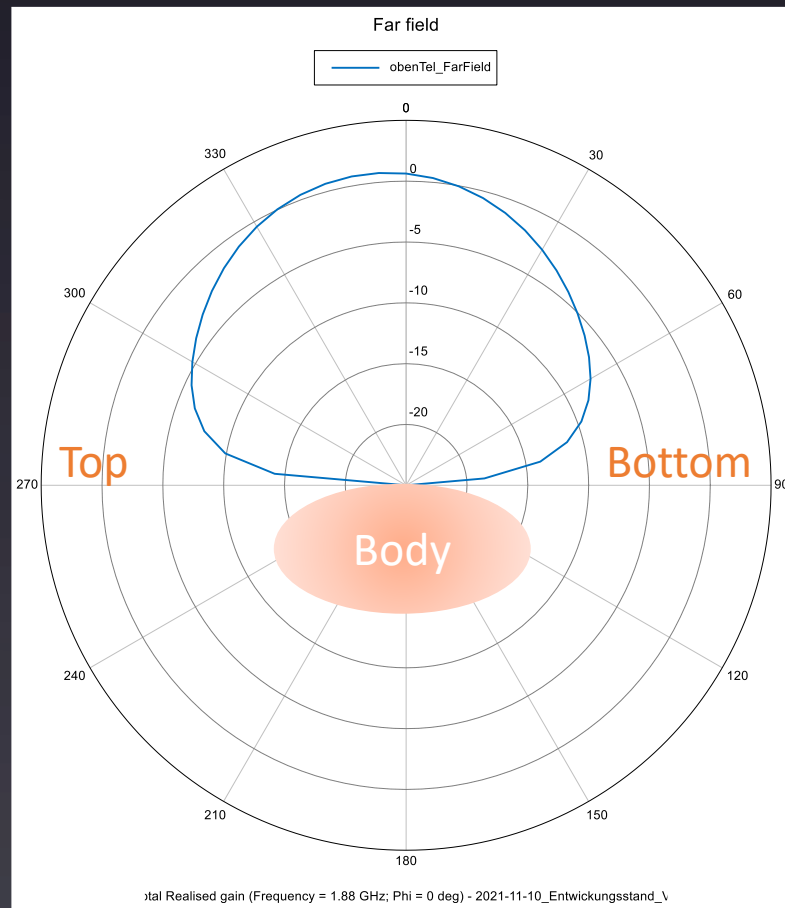


High Band Cellular Communication Antenna Pattern

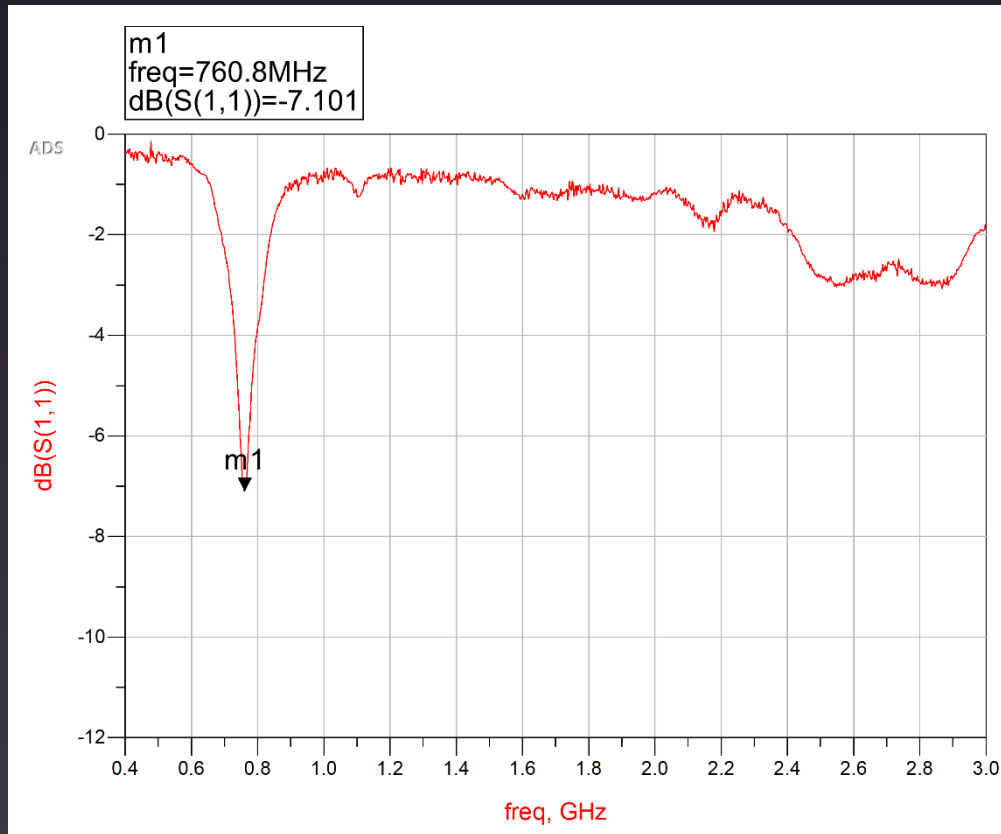
Elevation

Max Gain = +0,7 dBi
with Body

Azimuth



Cellular Communication



Antenna performance is good

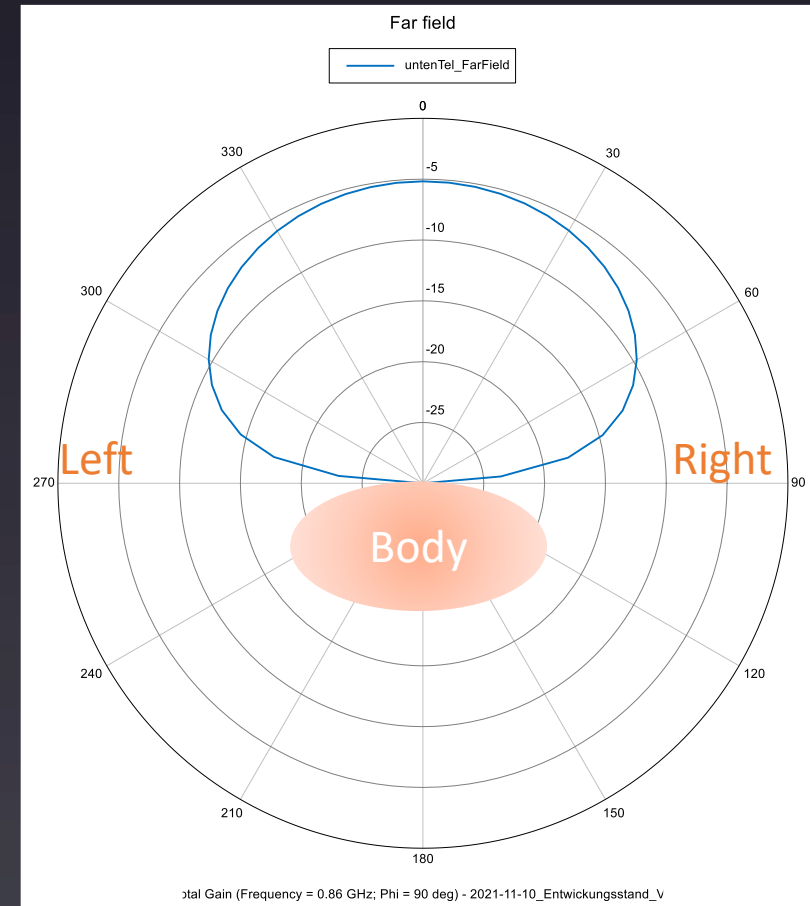
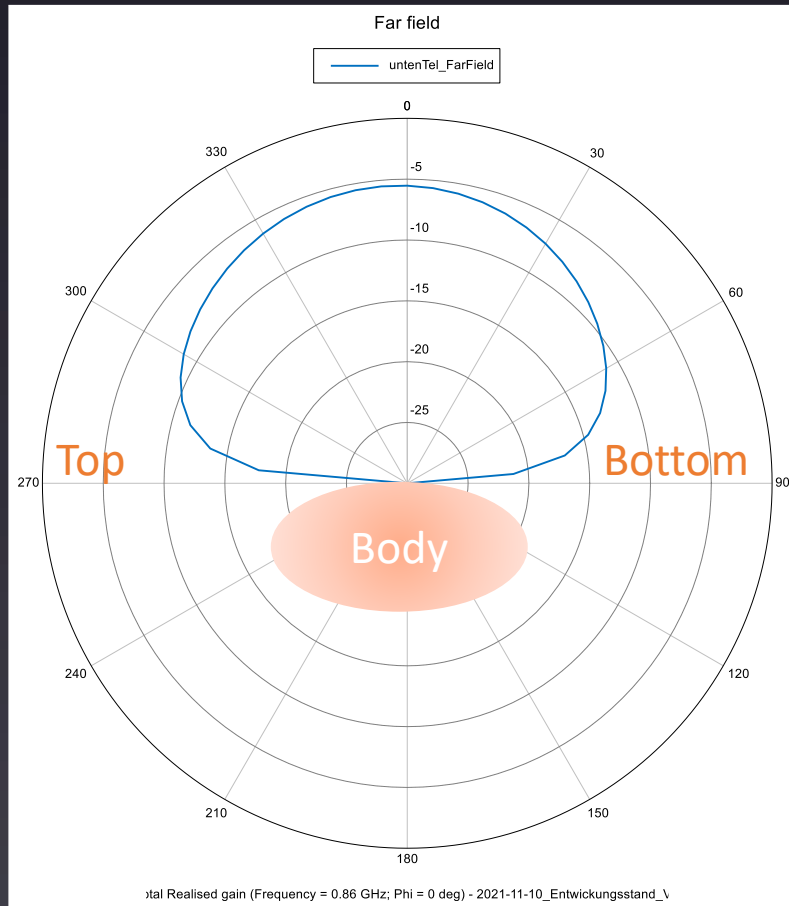


Low Band Cellular Communication Antenna Pattern

Elevation

Max Gain = -5,5 dBi
with Body

Azimuth





Cold Start Time

28.03.2022 at 13:30 o'clock, cloudy and dry day

Location: Ferd.-Winter-Weg 1, 83075 Bad Feilnbach

GNSS performance is good

	Cold Start Time / sec	Satellites used
Ref Antenna	39 sec	7
Passive GNSS antenna	48 sec	7
Passive GNSS antenna Electronic powered	51 sec	5



GNSS Reference

01.02.2022 at 17:00 o'clock, cloudy and rainy day
Location: Ferd.-Winter-Weg 1, 83075 Bad Feilnbach

The screenshot displays a GNSS software interface with four main panels:

- Signal level:** A bar chart showing signal strength for various PRNs. Below the chart is a table with columns for PRN, BAND, AZI, and ELE.
- Sky View:** A polar plot showing the distribution of satellites in the sky. The plot is divided into sectors, and satellites are represented by colored icons corresponding to the legend.
- Map View:** A street map showing the location of the station. The map includes labels for streets such as Dettendorfer Straße, Hauptstraße, Dorfplatz, and Aubachstraße. A blue pin marks the station location on Ferdinand-Winter Weg.
- PVT:** A panel displaying Position, Velocity, and Time data. It includes fields for Label, Reference Position (Ant. Latitude, Ant. Longitude, Height Ant), and various accuracy and error metrics.

PRN	BAND	AZI	ELE
18	L1	176	47
25	L1	121	42
31	L1	242	51
67	G1	8	8
73	G1	148	14
74	G1	156	62
75	G1	39	7
83	G1	33	68
84	G1	226	46
85	G1	189	34
136	L1	-	-

Label	STA8090_v4.6.8.2
Heading	0°
UTC Time	132930.000
Day	28
Month	03
Year	22
Week	
TOW	
RTC Time	
RTC Date	
RTC Error	0
RTC ticks/s	0
Time ID	N/A
Time Validity	N/A
PDOP	1.9
HDOP	1.2
VDOP	1.4
2D Acc.	5485284.910846...
3D Acc.	5485284.885037...
EHPE	0
SEP50	5485284.910845...
CEP50	5485281.525736

Latitude	47.797225
Longitude	11.977728...
Altitude	532.10 m
Fix Mode	3D/DGPS
Sats used	7
PDOP	1.9
HDOP	1.2
2D Acc.	5485284.91
3D Acc.	5485284.89
UTC time	132930.000
UTC date	28/03/22



GNSS Reference

01.02.2022 at 17:00 o'clock, cloudy and rainy day
Location: Ferd.-Winter-Weg 1, 83075 Bad Feilnbach

The screenshot displays a GNSS software interface with four main panels:

- Signal level:** A bar chart showing signal strength for various PRNs. Below the chart is a table with columns for PRN, BAND, AZI, and ELE.
- Sky View:** A polar plot showing the elevation and azimuth of visible satellites. A legend identifies satellites by system: GPS (red), Galileo (blue), BeiDou (green), QZSS (orange), and IRNSS (yellow).
- Map View:** A street map showing the current location on Ferdinand-Winter-Weg, with nearby streets like Hauptstraße and Dettendorfer Straße.
- PVT:** A data panel showing Positioning, Velocity, and Time information.

PRN	BAND	AZI	ELE
18	L1	176	50
25	L1	122	40
29	L1	51	66
31	L1	239	50
67	L1	6	8
73	L1	148	12
74	L1	157	59
76	L1	325	5
85	L1	228	48
126	L1	120	16

Parameter	Value
Label	STA8090_v4.6.8.2
Heading	0°
UTC Time	133413.000
Day	28
Month	03
Year	22
Week	
TOW	
RTC Time	
RTC Date	
RTC Error	0
RTC ticks/s	0
Time ID	N/A
Time Validity	N/A
PDOP	2.3
HDOP	1.4
VDOP	1.9
2D Acc.	0.0000000 m
3D Acc.	5485275.725794...
EHPE	0
SEF50	0
CEP50	5485277.776055...

Parameter	Value
Ant Latitude	47.797093° N
Ant Longitude	11.9777492° E
Height Ant	0.0

Parameter	Value
Latitude	47.797136°
Longitude	11.977745°
Altitude	516.22 m
Fix Mode	3D
Sats used	7
PDOP	2.3
HDOP	1.4
2D Acc.	0.00
3D Acc.	5485275.73
UTC time	133413.000
UTC date	28/03/22



GNSS Reference

01.02.2022 at 17:00 o'clock, cloudy and rainy day
Location: Ferd.-Winter-Weg 1, 83075 Bad Feilnbach

The screenshot displays a GNSS software interface with four main panels:

- Signal level:** A bar chart showing signal strength for various PRNs. Below the chart is a table with columns for PRN, BAND, AZI, and ELE.
- Sky View:** A circular plot showing the distribution of satellites in the sky. The legend includes GPS, Glonass, Sbas, Galileo, BeiDou, QZSS, and IRNSS.
- Map View:** A map showing the location of the receiver on Ferd.-Winter-Weg, with surrounding streets like Dettendorfer Straße, Hauptstraße, Dorfplatz, and Aubachstraße.
- PVT:** A panel showing Position, Velocity, and Time data. It includes fields for Label, Heading, UTC Time, Day, Month, Year, Week, TOW, RTC Time, RTC Date, RTC Error, RTC ticks/s, Time ID, Time Validity, PDOP, HDOP, VDOP, 2D Acc., 3D Acc., EHPE, SEP50, and CEP50. It also has a Reference Position section with Ant Latitude, Ant Longitude, and Height Ant, and a Coordinates Format section with radio buttons for MinDec and Decimal degrees.

On the right side, there is a status panel for STA8090_v4.6.8.2_D0 showing the following data:

Latitude	47.797184
Longitude	11.977636
Altitude	501.68 m
Fix Mode	3D
Sats used	5
PDOP	2.4
HDOP	1.5
2D Acc.	0.00
3D Acc.	5485278.06
UTC time	133727.000
UTC date	28/03/22



Thank you
for your
Attention

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