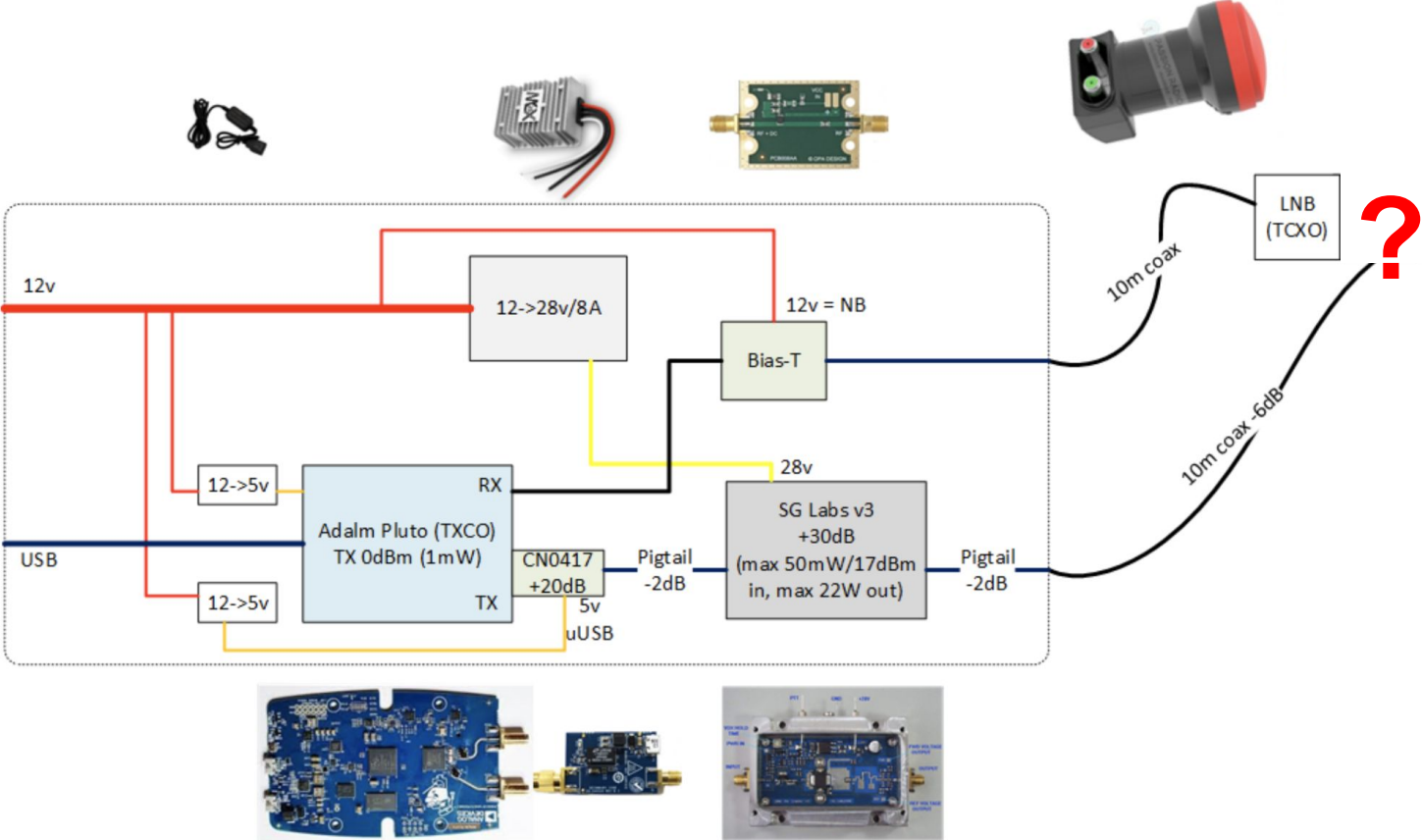


QO-100 POTY Anten

10 Agustos 2022 - Amatorce Sohbetler

Sistem Mimarisi



QO-100 Uplink Alternatifleri



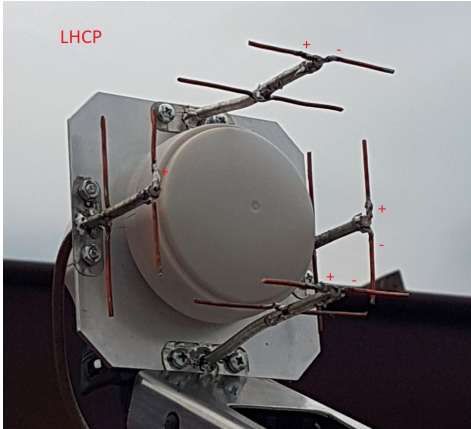
SADECE HELIX



WIFI DIPOL+CANAK



CANAK + HELIX



CIRCULAR YAGI

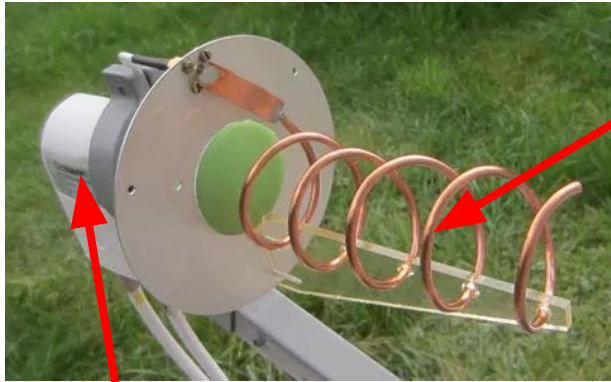


PATCH YAGI



YAGI

Dual - Alici verici ayni eksende nasıl olur ?



Verici
Anten

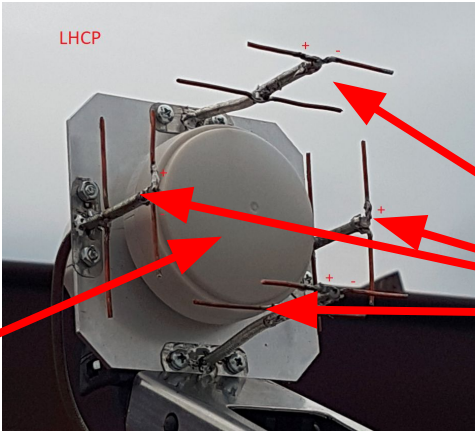
Alici (LNB)



Alici (LNB)

Verici
Anten

POTY



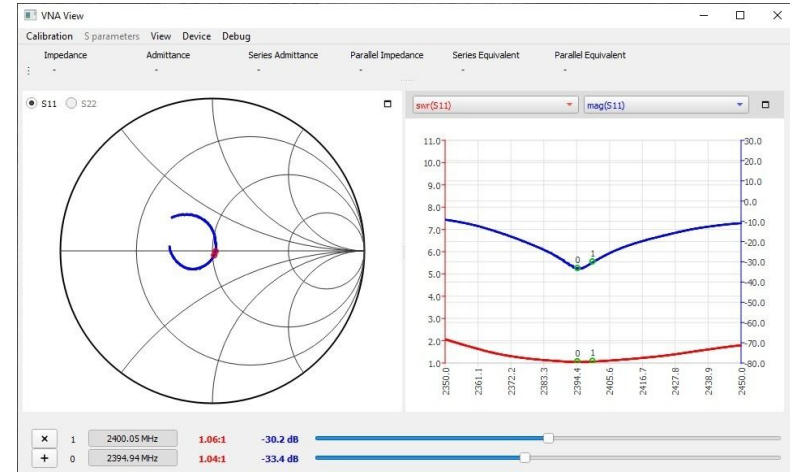
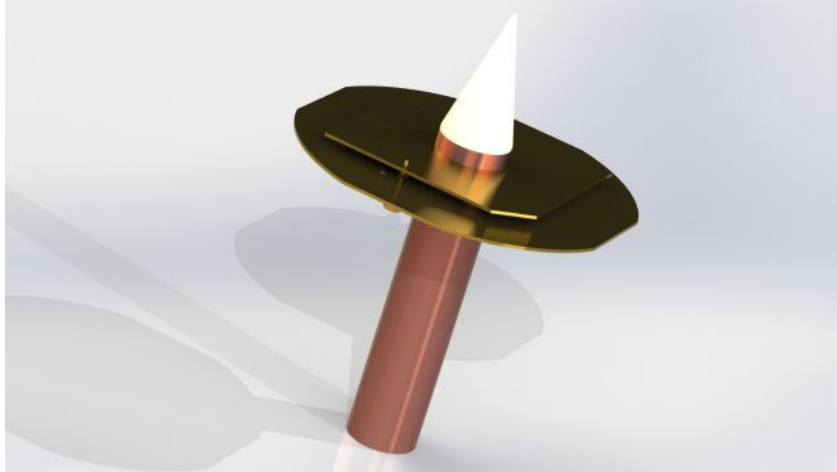
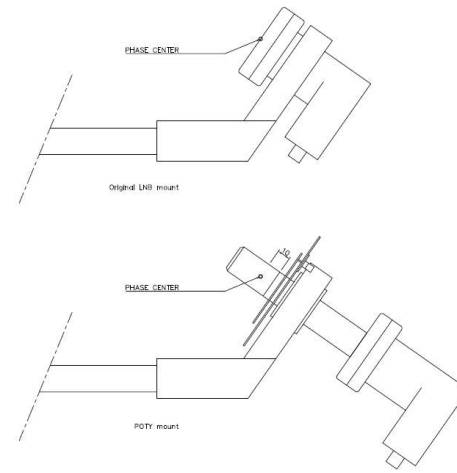
Alici (LNB)

Verici
Anten

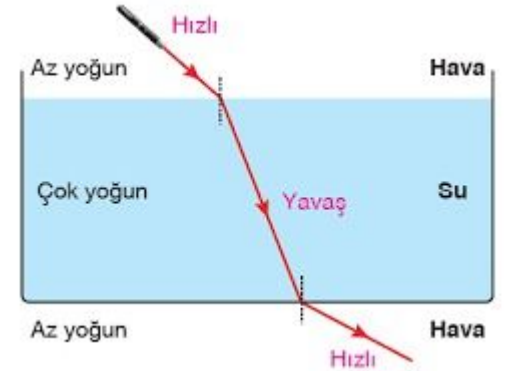
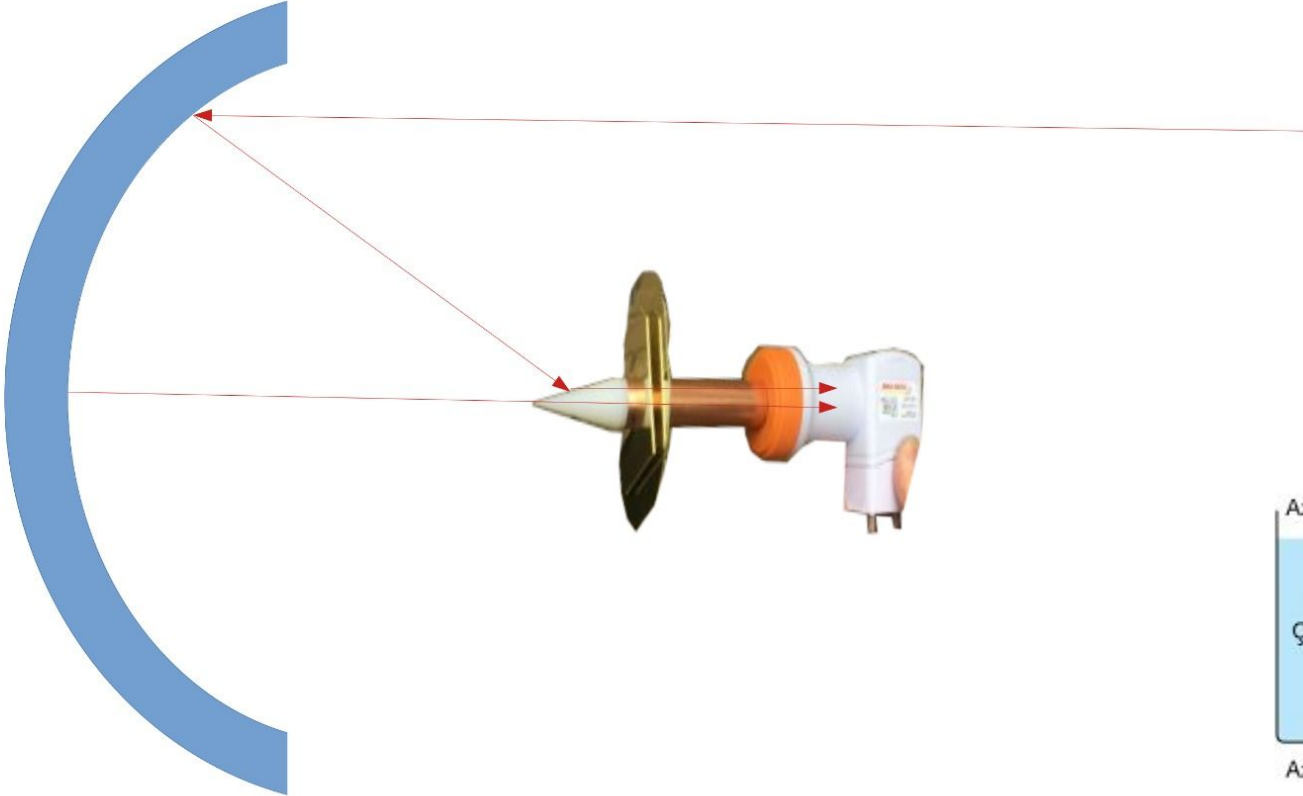
CIRCULAR POLARIZASYON ?

POTY Anten

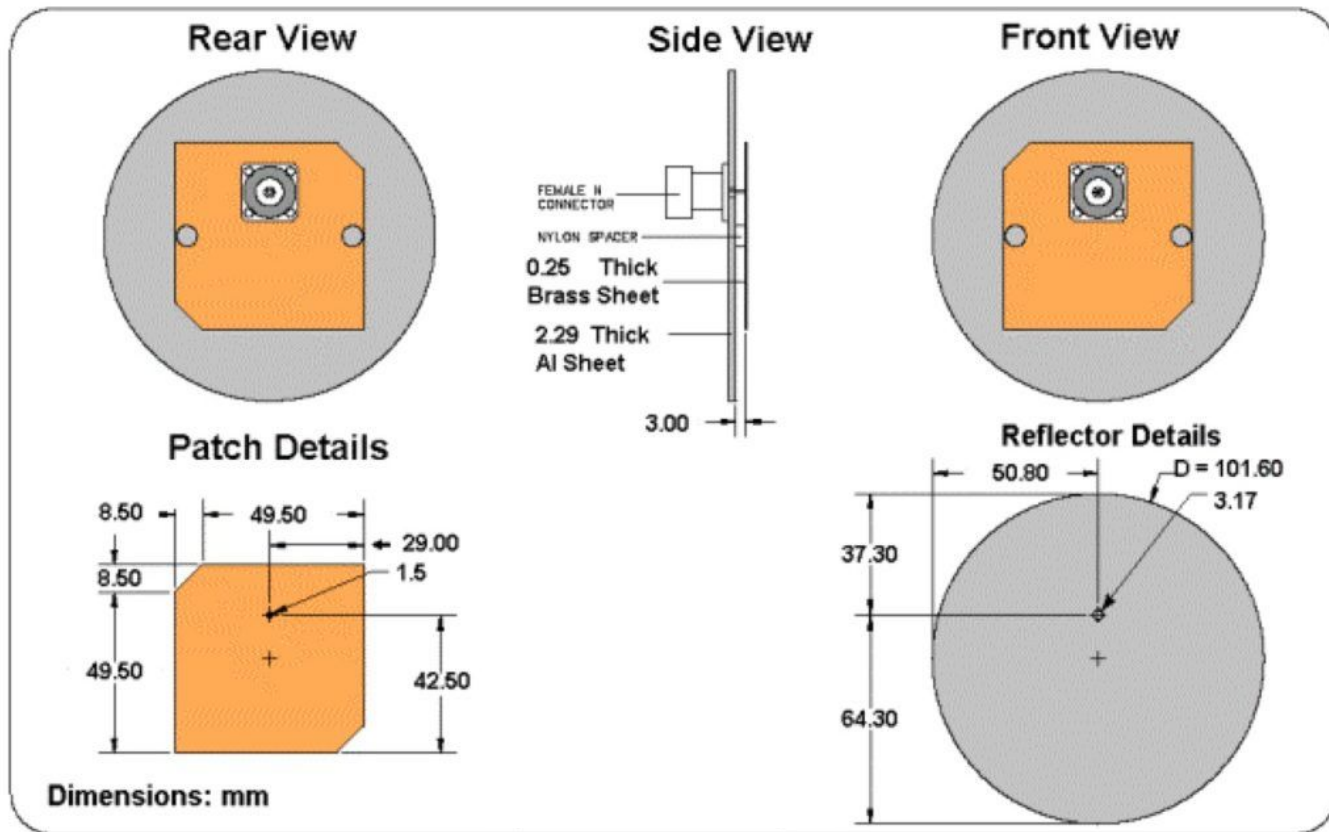
- Yapimi kolay
- Ayarlamaasi kolay
- Circular polarizasyon
- Yeterli kazanc
- Dual Feed icin uygun (RX/TX)



Odaklama

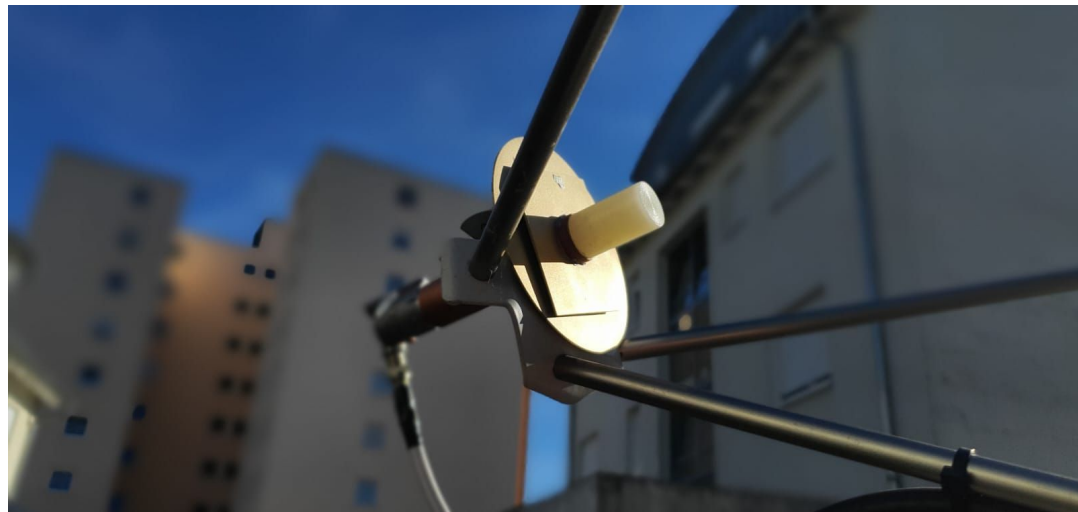


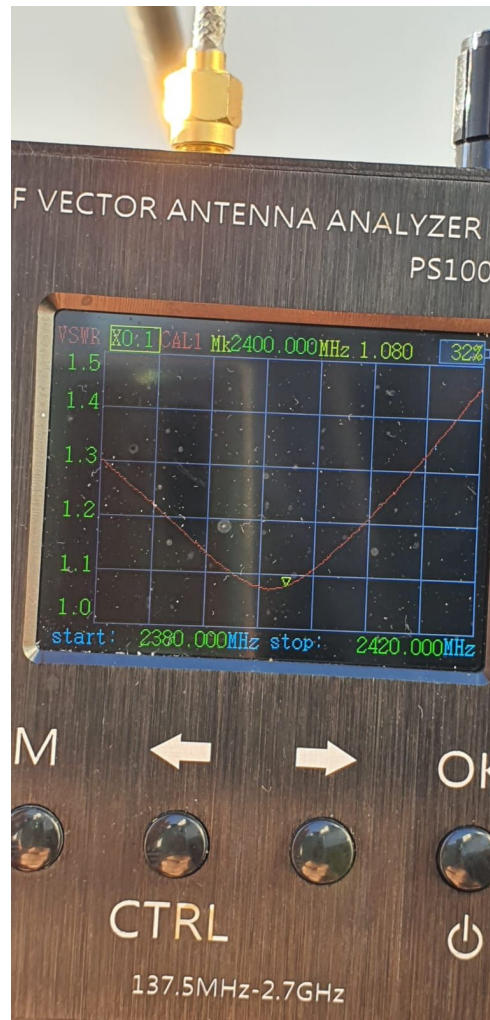
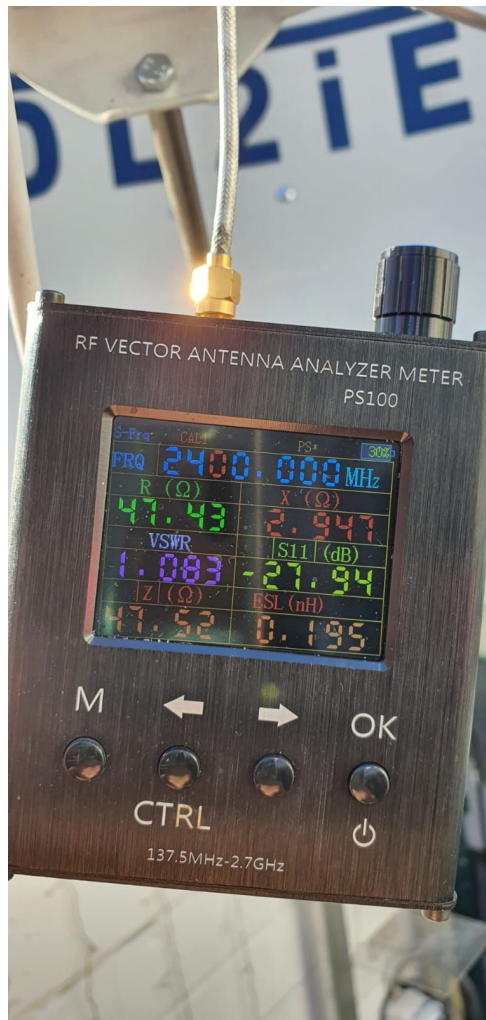
POTY Olculeri

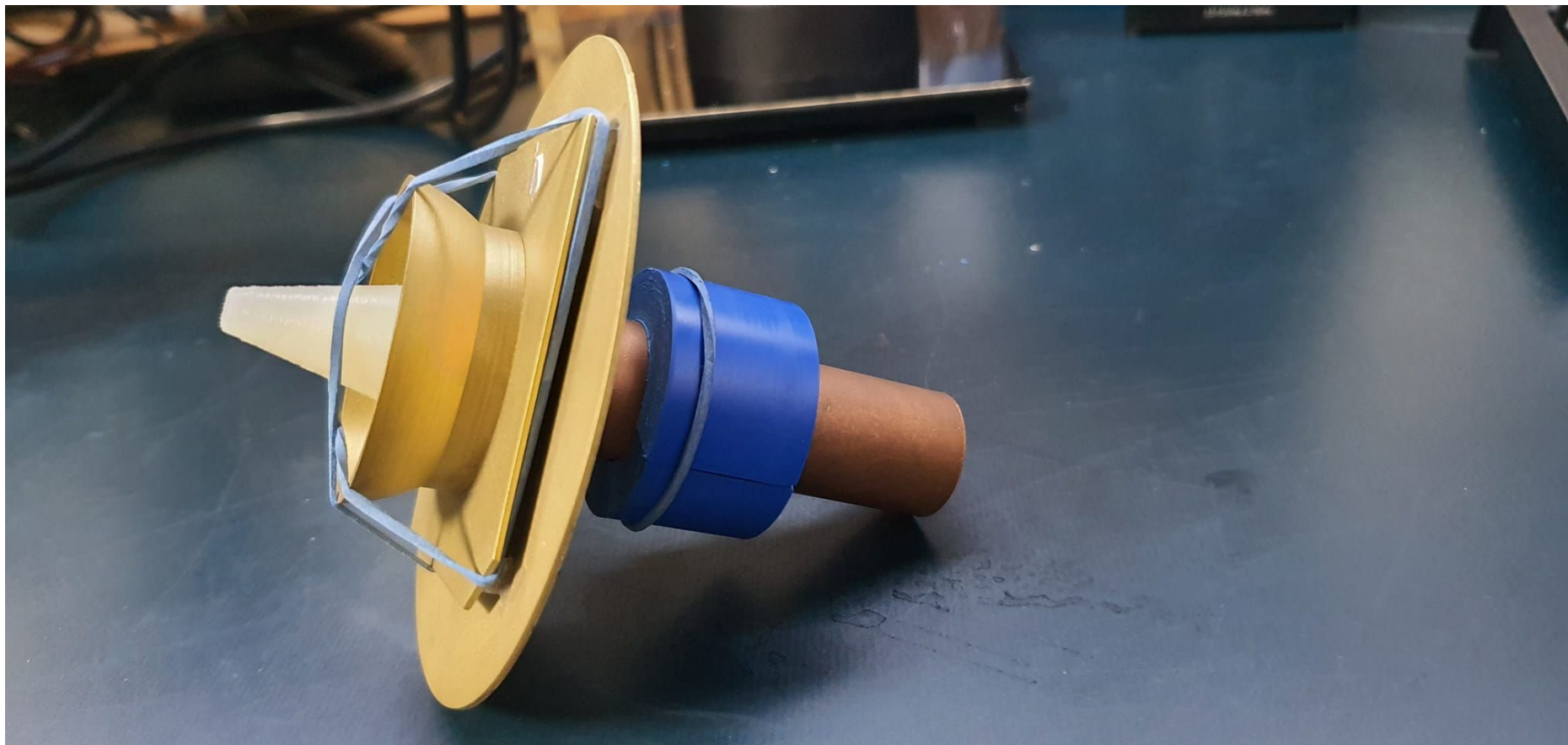


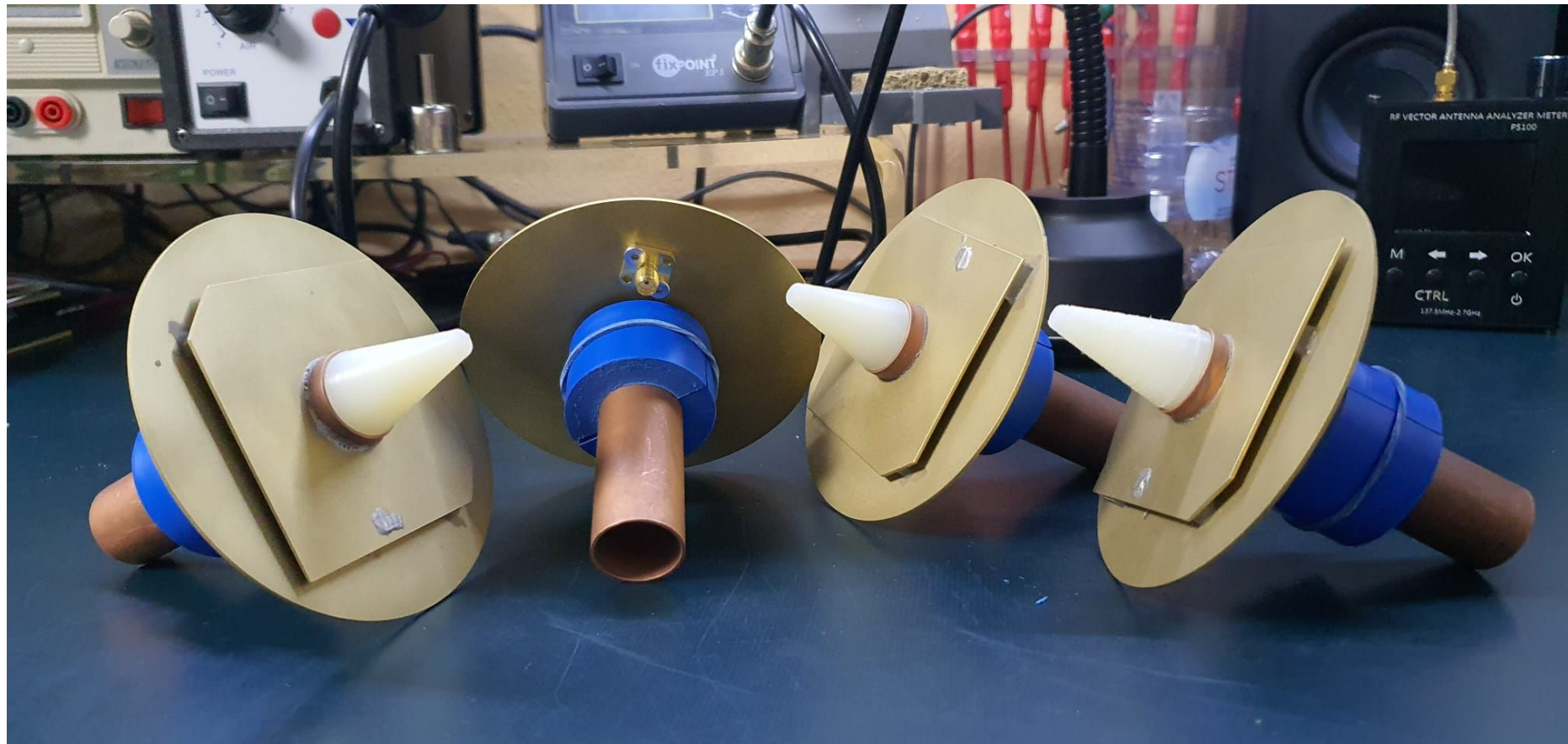
Yapim Asamalari











SR (kS) Freq (kHz)

01500 10491500

OSCAR-100

SR	Freq
1500	1049
1000	125
500	250
333	375
250	500
125	625
66	750
35	875
25	1000

M1 M2 M3 M4

Low SR Wide scan

DVB mode

DVB-S DVB-S2 Auto

FEC mode

Auto Manual

Folup A Volt A 23kHz

A 0 OFF

B 13(V) ON

18(H) TS

Store into Memory

M1 M2 M3 M4

MiniTounerPro V2

NIM : Serit FTS-4334L

ppm calibr 23.00 (i)

MiniTouner DVB

203156

Show Extra Panel Show Dialog Setup

DEROTATOR

Symbolrate

mode
fixed
scan

SR set 1500233S

Deviation -131S

SR -> 1500 kS/s

Derotator

Search

Reset

Carrier Width: 1800 Khz

TV mode: DVB-S2

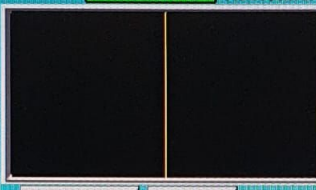
Frequency

Freq asked: 10491500kHz

Freq -> 10491334 kHz 1129500kHz

doppler

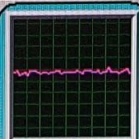
IF



Copy Freq found

Adapt Offset

keep it



I: 139 Q: 154

Noise



2980 max

TS from

16USB

8USB

2USB

Demod

----- kb/s

Bitrate expected:

----- kb/s

min 1780

Reset TS

Payload Diagram A71A

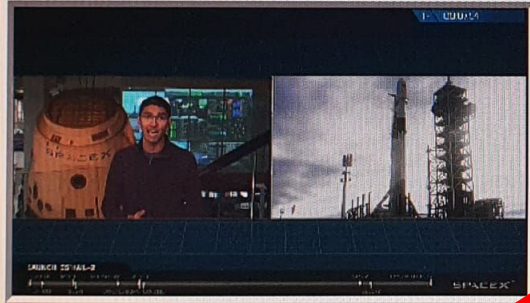
Video 86,2 %



Overhead 3,9 %

Null Packet 4,7 %

Audio 5,3 %



SEARCH TOTAL-2

LNA gain 10.1dB



Carrier



SR



Full RF Pw 45dBm



C/N MER 3,1dB



Constellations

BCH errors

LDPC

FEC ??????

TS

lock time: - - - ms

refresh: 202ms

TS stat

Null Packets: - - %

Video: - - kb/s - - %

Audio: - - kb/s - - %

data rcvd: - - kb/s

TS bitrate: - - kb/s

PIDs

Pid from ini

A71A

F6DZP-Mpeg

HDlowSR

France24

QRZ DX

RaspberryP

Auto PID

VIDEO

PID 00257

V_H264

AUDIO

PID 00258

MPA

Program

A71A

Provider

QARS

Renderer

Graph

VLCdll

Reset

TS IP: 230.0.0.10:10000

Width: 1280

Height: 720

photo

A_decoder: LAV Audio Decoder

V_decoder: Microsoft DTV-DVD

Format

4/3

16/9

1/1

auto

Zoom

adapt

x1

maxi

Format: 16/9

Info

Audio level

mute

Beep

Deave

UDP

Record

Quit

SR (kS) Freq (kHz)
01500 **10491500**

OSCAR-100

SR	Freq
1500	1049
1000	1049
500	1049
333	1049
250	1049
125	1049
66	1049
35	1049
25	1049

M1 M2 M3 M4

Low SR Wide scan

DVB mode
 DVB-S
 DVB-S2
 Auto

Fplug A Volt A 23kHz
 A 0 OFF
 B 13(V) ON
 18(H) TS

Store into Memory

M1 M2 M3 M4

MiniTounerPro V2
 NIM : Serit FTS-4334L
 ppm calibr 23.00 (i)

MiniTouner DV3 by F6DZP

195101

Show Extra Panel Show Dialog Setup

DEROTATOR

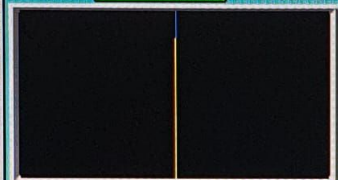
Symbolrate mode
 fixed scan
 SR set: 1499991S
 Deviation: 98S
 SR → 1500 kS/s

Derotator Search Reset

Carrier Width: 1800 KHz
 TV mode: DVB-S2

Frequency

Freq asked: 10491500kHz
 Freq → 10491338 kHz 1129500kHz



Copy Freq found Adapt Offset keep it

Noise



I: 139 Q: 154

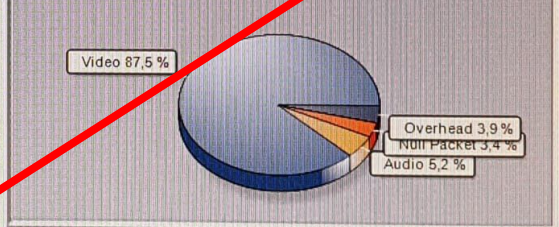
TS bitrate



2.382,057kb/s
 Bitrate expected: 2.380,794kb/s
 min 1780 reset TS



Payload Diagram A71A



PIDs
 Pid from .ini
 A71A Auto PID

VIDEO
 PID 00257
 V_H264
 AUDIO
 PID 00258
 MPA

Program
 A71A
 Provider
 QARS

Renderer
 Graph
 VLCdII Reset

TS IP: 230.0.0.10:10000
 Width: 1280
 Height: 720
 photo

A_decoder: LAV Audio Decoder

V_decoder: Microsoft DTV-DVD

Format
 4/3
 16/9
 1/1
 auto
 Zoom
 adapt
 x1
 maxi
 Format: 16/9

Info

Audio level mute

LNA gain 10.5dB



Carrier



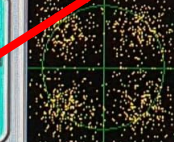
SR



RF Pw -43dBm



C/N MER 7.3dB

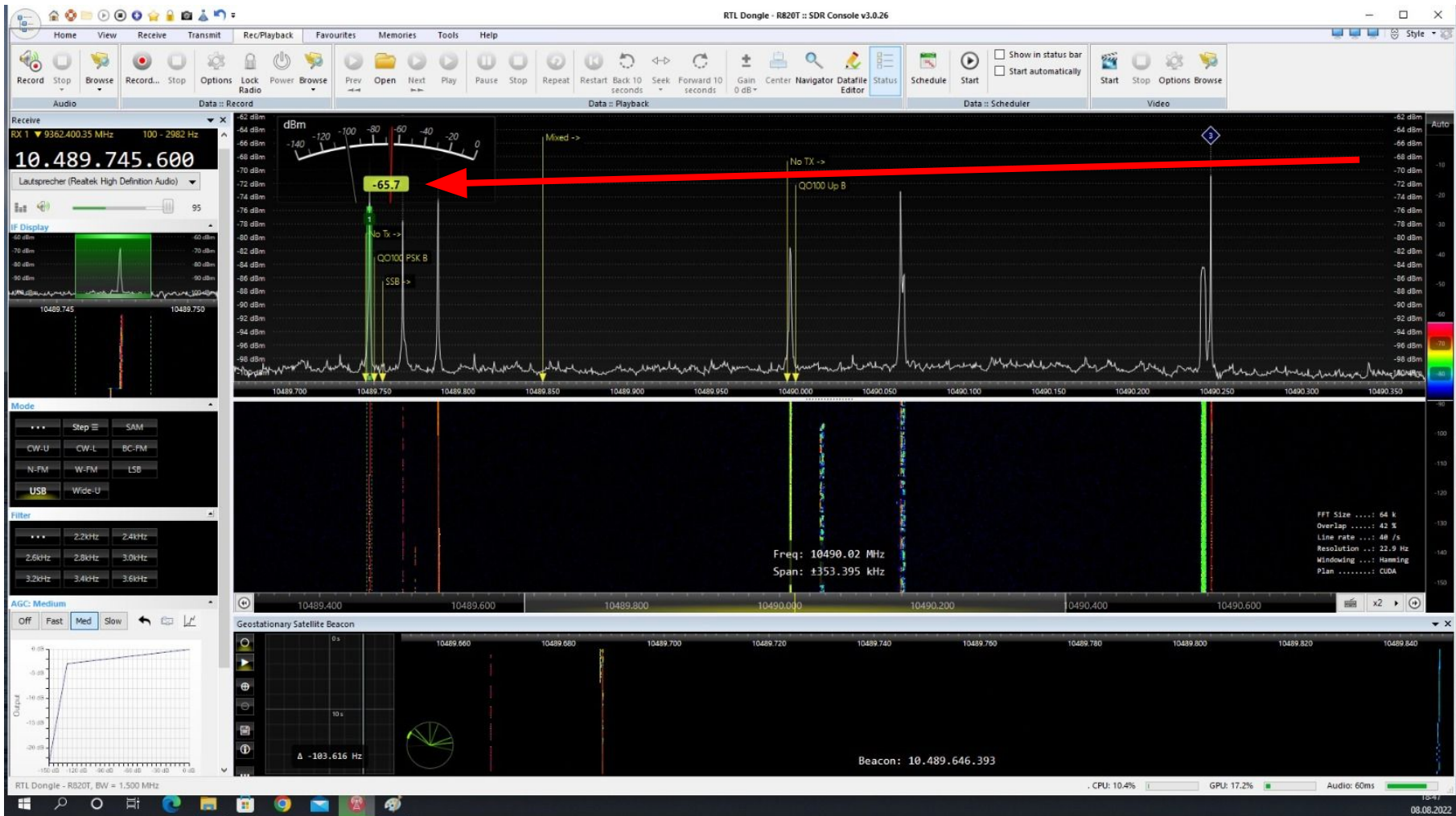


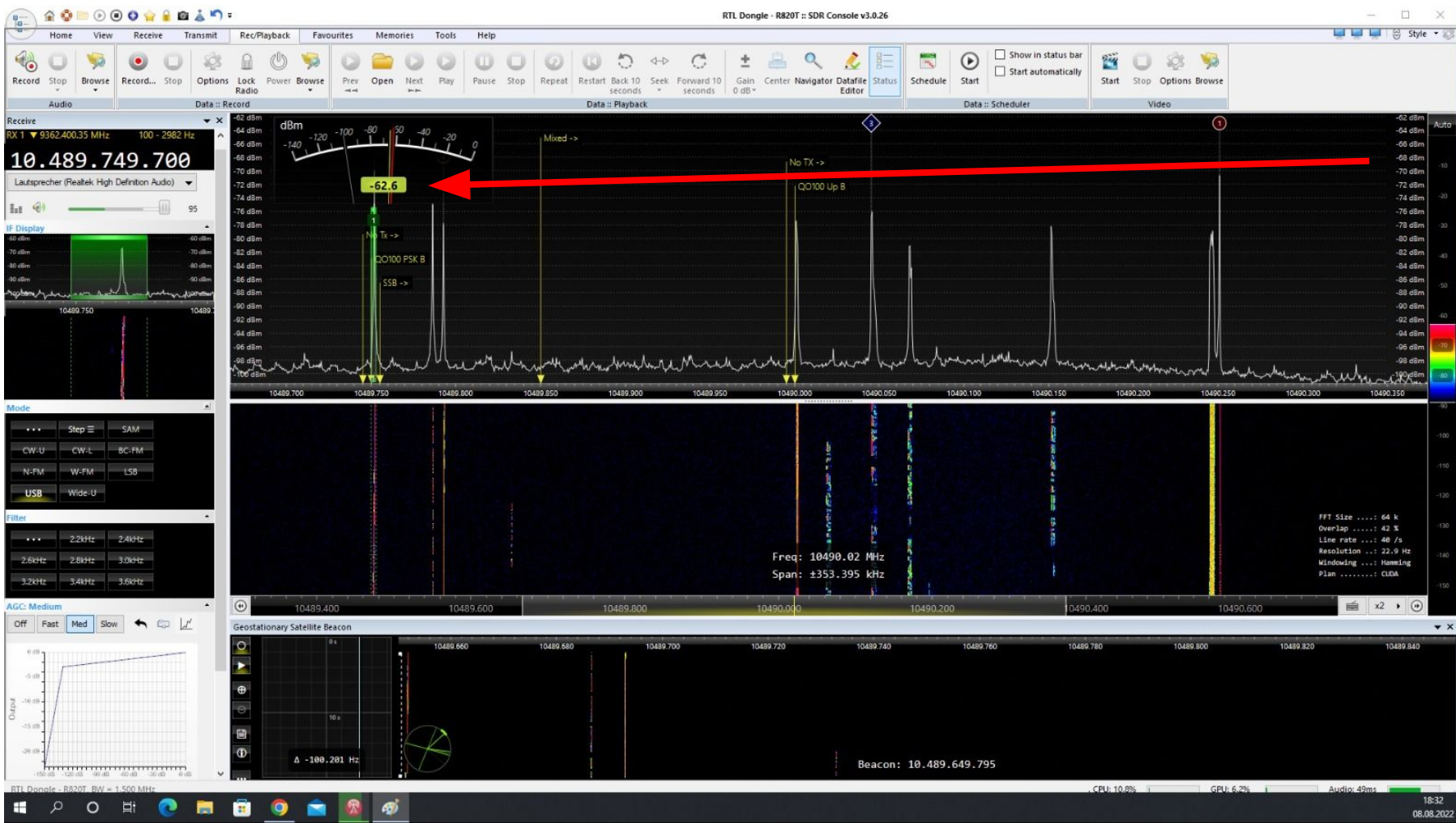
Constellations

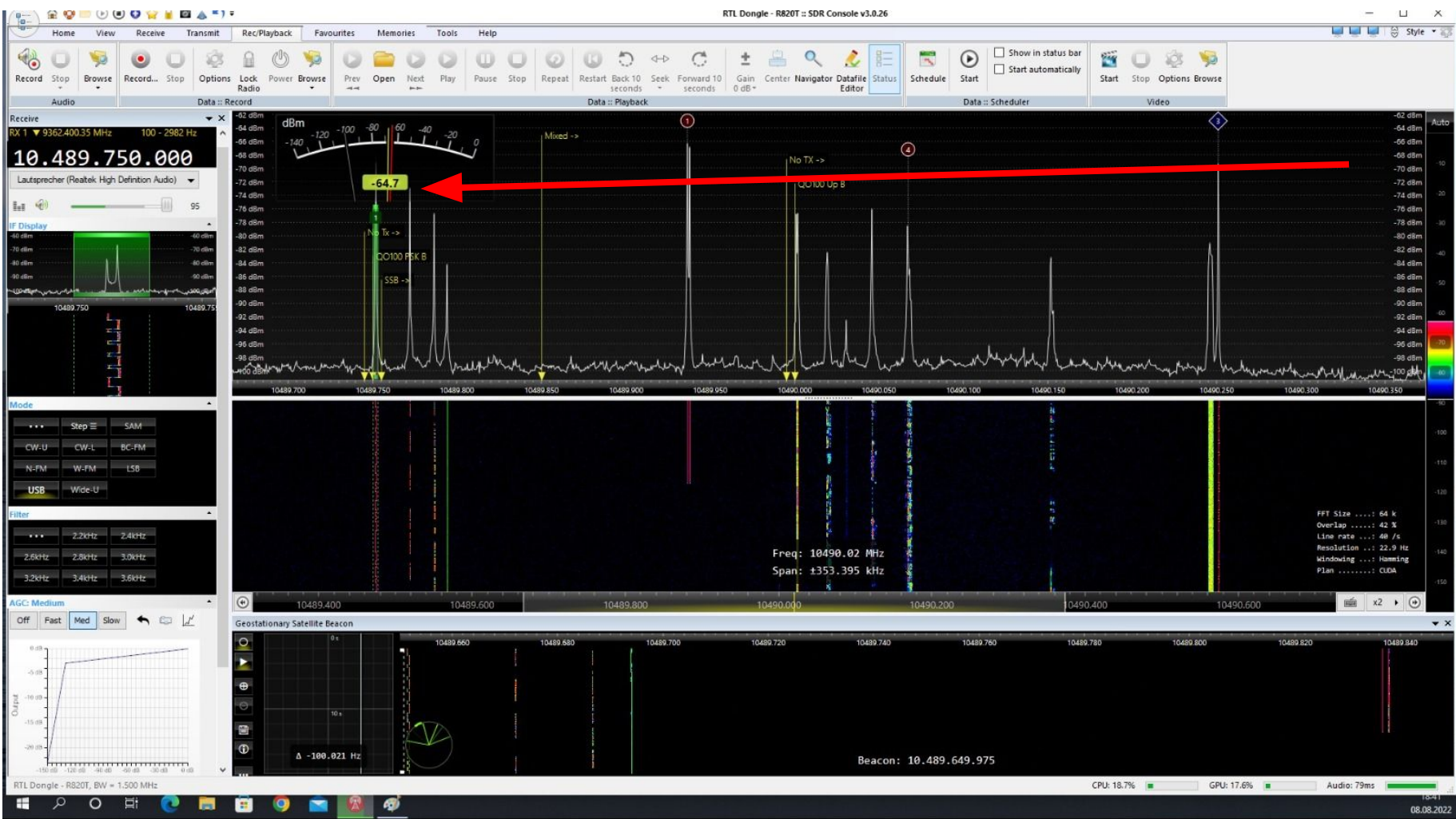
BCH errors 0
 LDPC 10% 689
 FEC QPSK 4/5_L20
 C/N needed: 4,7 dB
 D3
 TS lock time: 388 ms refresh: 203ms

TS stat reset%
 Null Packets: 3.4%
 Video: 2084kb/s 87.5%
 Audio: 125kb/s 5.3%
 data rcvd: 2.382,057kb/s
 TS bitrate: 2.380,798kb/s

Beep Dsave UDP Record
 Quit
 Expert Web







TESEKKURLER