



nesdr_driver_installer_for_windows.exe

Completed — 4.9 MB

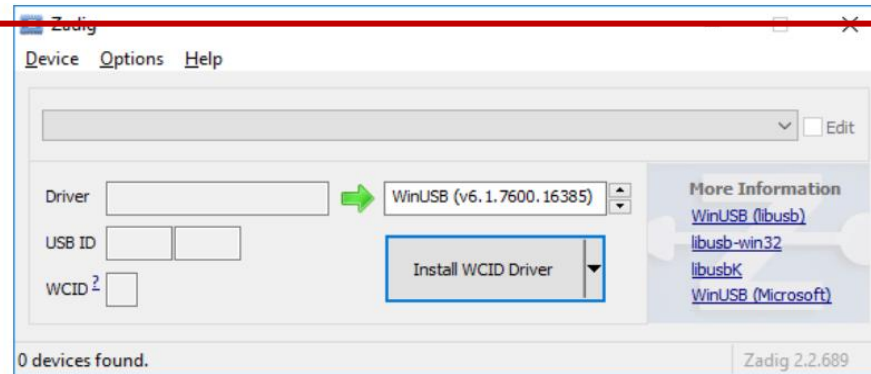
noelec neSDR SMArT SDR Zidag Software Driver Installation

<https://support.noelec.com/hc/en-us/articles/360005298053-NESDR-Installation-Guide>

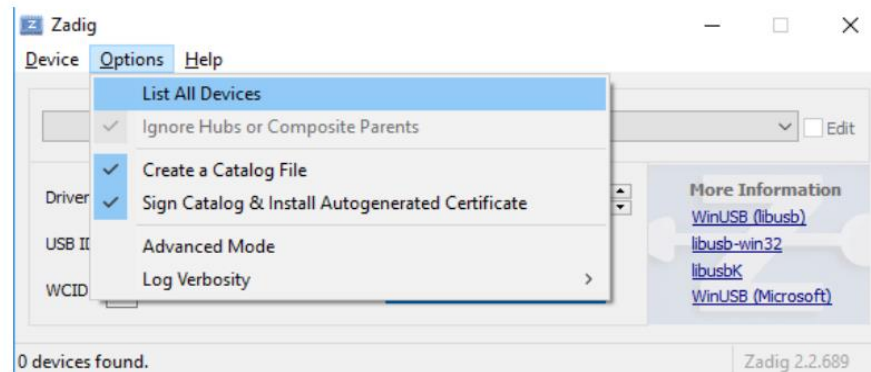
This driver is required to use RTL-SDR compatible SDR software on Windows operating systems.

[Click here to download the latest version of Zadig, used to install the SDR driver for your NESDR.](#) The driver is required to use RTL-SDR compatible SDR software on Windows operating systems.

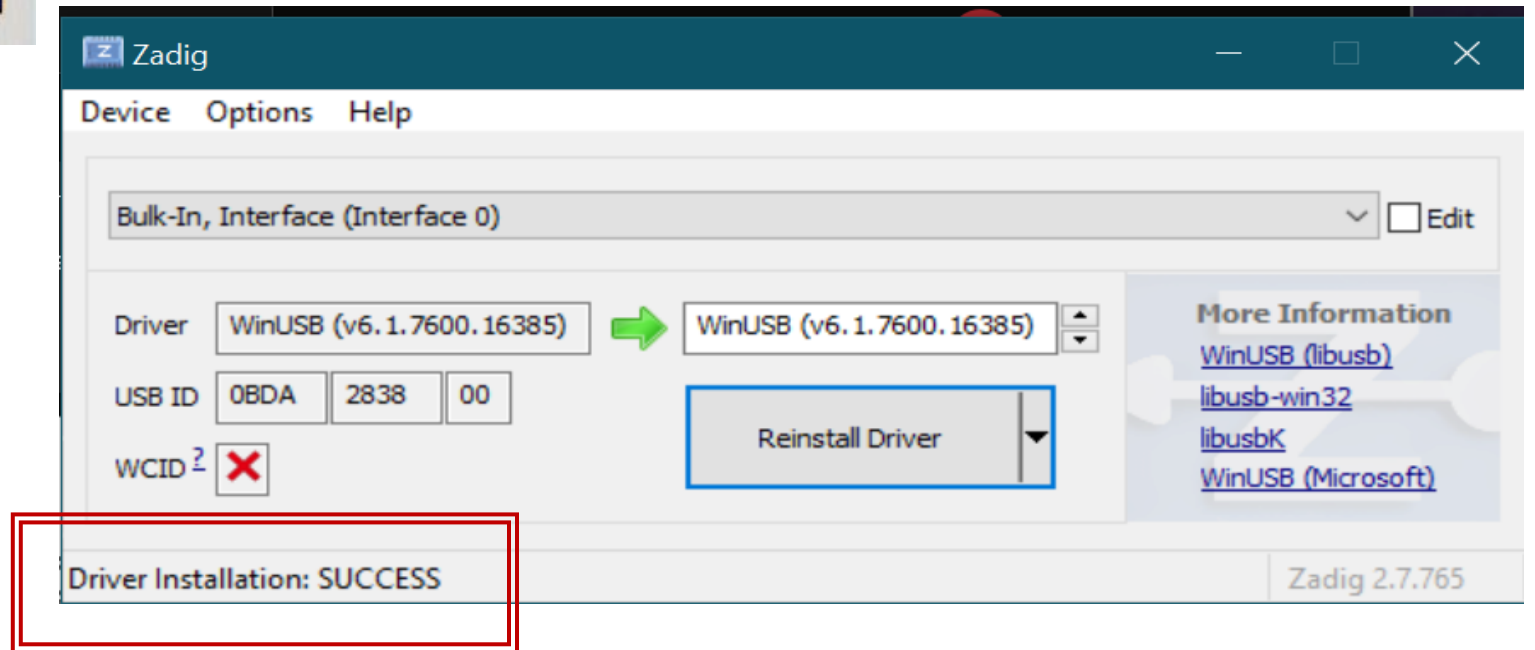
1. Plug your NESDR into an available USB port
2. Open the 'NESDR Driver Installer', Zadig, by clicking the link above



3. Select 'List All Devices' from the 'Options' menu



nooelec neSDR SMaRT SDR Zidag Software Driver Installation



AIRSPY SDR# Studio v1.0.0.1919 - RTL-SDR USB

001.420.405.000

IF Average *

☒ Window *KamSoft v. 2.7*

FFT resolution: 512

Intermediate average: 100

Gain: 249

Level: 1000

Dynamic averaging: 855900

Reset ave. Reset backgr.

Stop Acq. backgr.

Save single

Multiple files

Number of files to save: 900

Delay between rec. [s]: 0

Path: C:\RTdata

Files name: dummy

Stop Multiple save

Radio

☐ N... ☐ AM ☐ LSB ☐ USB

☐ W... ☐ D... ☐ CW ☒ RA...

☐ Shift 0

Filter: Blackman-Harr

Bandwidth: 10,000

Order: 1,000

☐ Squelch 50

CW Shift: 1,000

Source: RTL-SDR USB

Device: E4000

Generic RTL2832U OEM (1)

Sample Rate: 2.4 MSPS

Sampling Mode: Quadrature sampling

☒ Offset Tuning

☐ RTL AGC

☐ Tuner AGC

RF Gain: 42 dB

Frequency correction [c]: 0

Display

Theme: Fluent Dark

View: Both

Window: Blackman-Harr

Resolution: 262144

Style: Static Gradient

Marker Color:

Gradient: Sharp

☐ Mark Peaks ☐ Time Markers

Smoothing

S-Attack

S-Decay

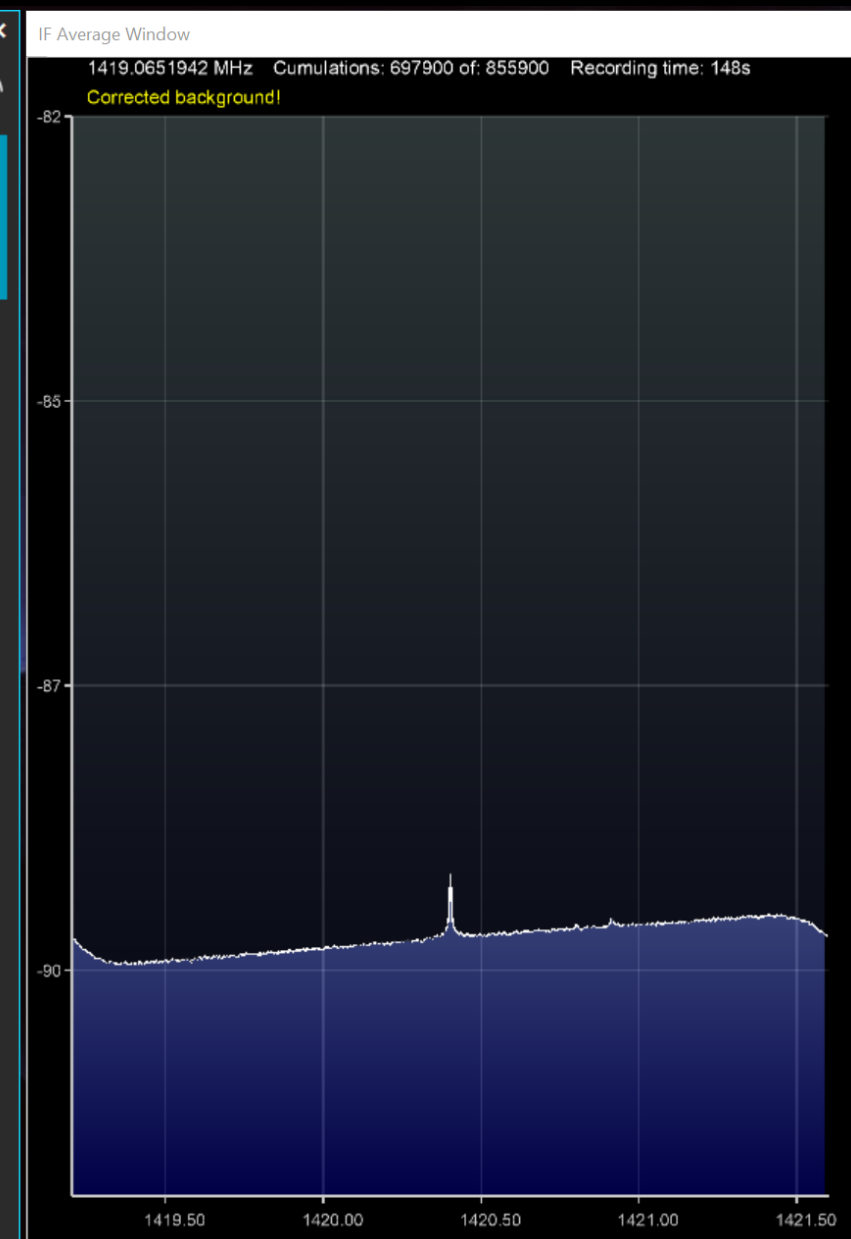
W-Attack

W-Decay

Spectrum

Speed

Micro Tuner FM MPX Spectrum IF Spectrum



AIRSPY SDR# Studio v1.0.0.1919 - RTL-SDR USB

1.420.405.000

IF Average *
Window KamSoft v. 2.7
FFT resolution 512
Intermediate average 100
Gain 249
Level 1000
Dynamic averaging 855900
Reset ave. Reset backgr.
Stop Acq. backgr.
Save single

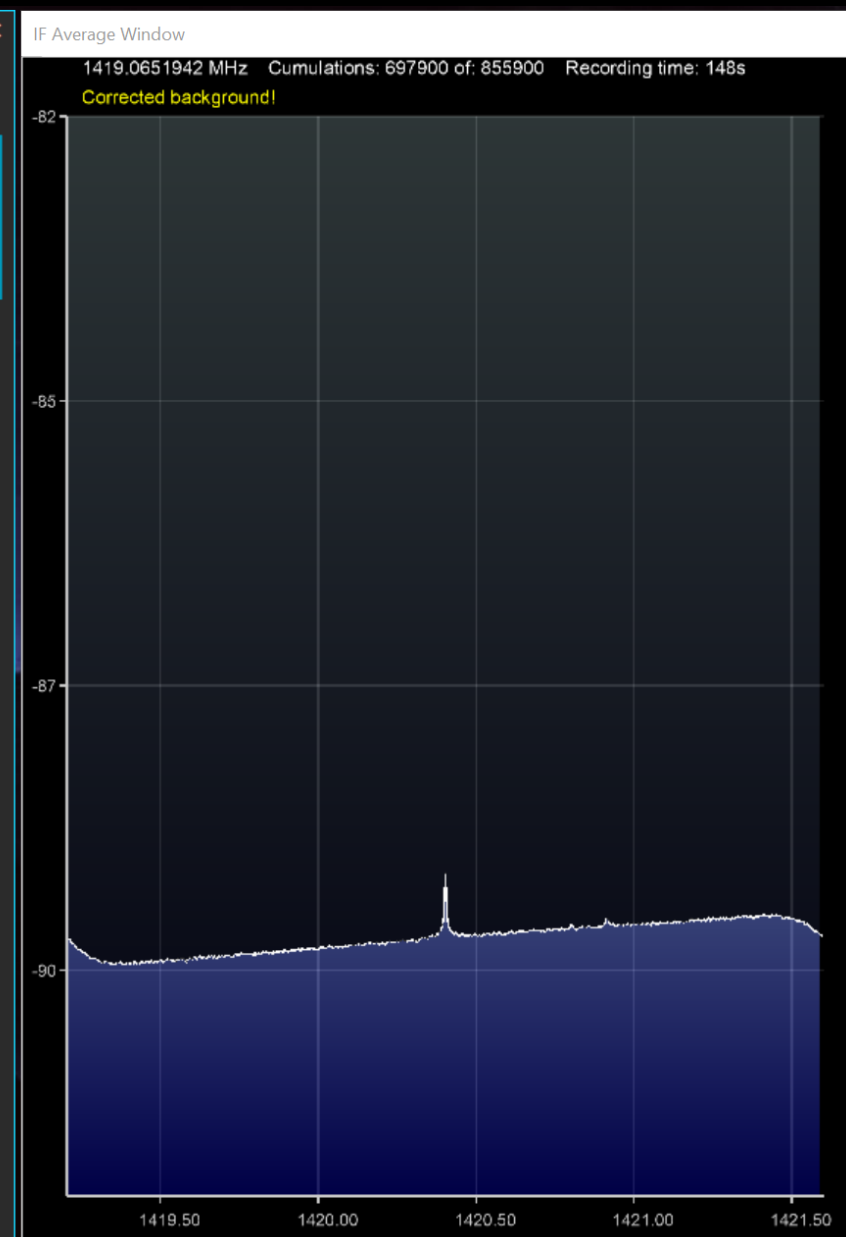
Radio
N... AM LSB USB
W... D... CW RA...
Shift 0
Filter Blackman-Harr
Bandwidth 10,000
Order
Squelch
CW Shift 1,000

Source: RTL-SDR USB
Device E4000
Generic RTL2832U OEM (1)
Sample Rate 2.4 MSPS
Sampling Mode Quadrature sampling
Offset Tuning
RTL AGC
Tuner AGC
RF Gain 42 dB
Frequency correction (p) 0

Set Center Freq & Center Tuning

Display
Theme Fluent Dark
View Both
Window Blackman-Harr
Resolution 262144
Style Static Gradient
Marker Color
Gradient Sharp
Mark Peaks
Time Markers
Smoothing
S-Attack
S-Decay
W-Attack
W-Decay
Spectrum
Speed

Micro Tuner FM MPX Spectrum IF Spectrum



AIRSPY SDR# Studio v1.0.0.1919 - RTL-SDR USB

001.420.405.000

IF Average *
Window
KamSoft v. 2.7
FFT resolution 512
Intermediate average 100
Gain 249
Level 1000
Dynamic averaging 855900
Reset ave. Reset backgr.
Stop Acq. backgr.
Save single

Radio
N... AM LSB USB
W... D... CW RA...
Shift 0
Filter Blackman-Harr
Bandwidth
Order
Squelch
CW Shift

Sample Rate 2.4 MSPS
Offset Tuning enabled
RF Gain max 42 dB


Source: RTL-SDR USB
Device E4000
Generic RTL2832U OEM (1)
Sample Rate 2.4 MSPS
Sampling Mode Quadrature sampling
☒ Offset Tuning
☐ RTL AGC
☐ Tuner AGC
RF Gain 42 dB
Frequency correction (p) 0

Display
Theme Fluent Dark
View Both
Window Blackman-Harr
Resolution 262144
Style Static Gradient
Marker Color
Gradient Sharp
☐ Mark Peaks ☐ Time Markers
Smoothing
S-Attack
S-Decay
W-Attack
W-Decay
Spectrum
Speed

Micro Tuner FM MPX Spectrum IF Spectrum



AIRSPY SDR# Studio v1.0.0.1919 - RTL-SDR USB

IF Average *     1.420.405.000    AIRSPY

Radio

☐ N... ☐ AM ☐ LSB ☐ USB
☐ W... ☐ D... ☐ CW ☒ RA...

☐ Shift

Filter Blackman-Harr

Order 1,000

☐ Squelch 50

CW Shift 1,000

Source RTL-SDR USB

Device E4000
Generic RTL2832U OEM (1)

Sample Rate 2.4 MSPS

Sampling Mode Quadrature sampling

☐ Offset Tuning
☐ RTL AGC
☐ Tuner AGC

RF Gain 42 dB

Frequency correction (p) 0

IF Average *

☒ Window

FFT resolution 512

Intermediate average 100

Gain 249

Level 1000

Dynamic averaging 855900

Reset ave. Reset backgr.

Stop Acq. backgr.

Save single

Multiple files

Number of files to save 900

Delay between rec. [s] 0

Path C:\RTdata

Files name dummy

Stop Multiple save

Micro Tuner **FM MPX Spectrum** **IF Spectrum**

Sets Audio Only





001.420.405.000



IF Average *

☒ WindowKamSoft
v. 2.7

FFT resolution

512

Intermediate average

100

Gain

249

Level

1000

Dynamic averaging

855900

Reset ave.

Reset backgr.

Stop

Acq. backgr.

Save single

Multiple files

Number of files to save

900

Delay between rec. [s]

0

Path

C:\RTdata

Files name

dummy

Stop

Multiple save

Radio

☐ N... ☐ AM ☐ LSB ☐ USB☐ W... ☐ D... ☐ CW ☒ RA...☐ Shift

0

Filter

Blackman-Harr

Bandwidth

10,000

Order

1,000

☐ Squelch

50

CW Shift

1,000

Source: RTL-SDR USB

Device

E4000

Generic RTL2832U OEM (1)

Sample Rate

2.4 MSPS

Sampling Mode

Quadrature sampling

☐ Offset Tuning☐ RTL AGC☐ Tuner AGC

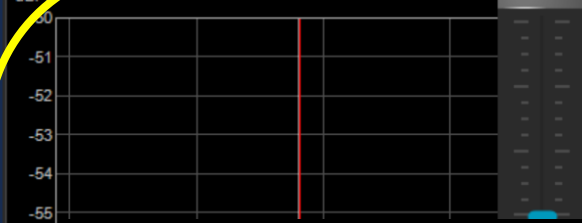
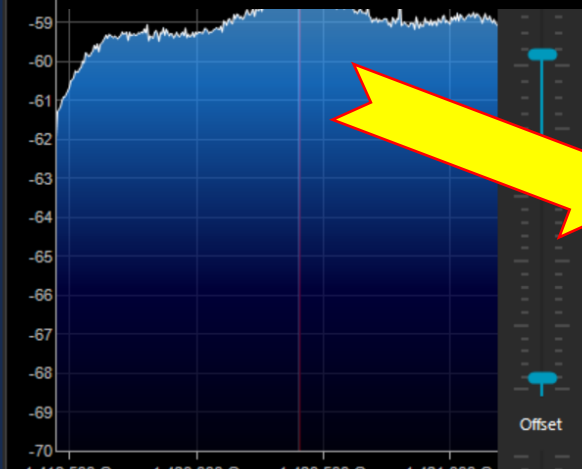
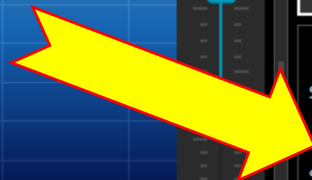
RF Gain

42 dB

Frequency correction [p]

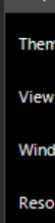
0

dBFS

Set S-Attack / S- Decay @
min = best display smoothing

Offset

Zoom



Display

Theme

Fluent Dark

View

Both

Window

Blackman-Harr

Resolution

262144

Style

Static Gradient

Marker Color

White

Gradient

Sharp

☐ Mark Peaks☐ Time Markers

Smoothing

S-Attack

S-Decay

W-Attack

W-Decay

Spectrum

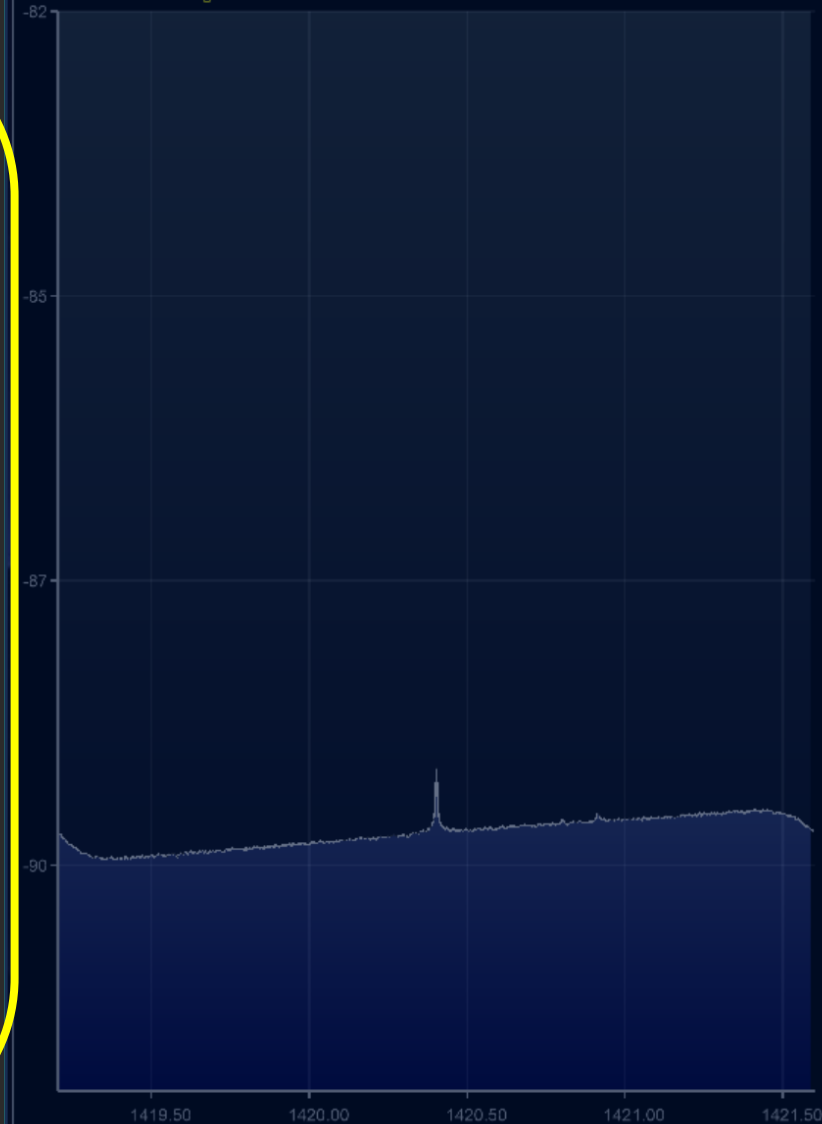
Speed

Frequency Manager

IF Average Window

1419.0651942 MHz Cumulations: 697900 of: 855900 Recording time: 148s

Corrected background!



AIRSPY SDR# Studio v1.0.0.1919 - RTL-SDR USB

001.420.405.000

IF Average *

☒ Window *KamSoft v. 2.7*

FFT resolution: 512
Intermediate average: 100

Gain: 249
Level: 1000
Dynamic averaging: 855900

Reset ave. Reset backgr.
Stop Acq. backgr.
Save single

Multiple files
Number of files to save: 900
Delay between rec. [s]: 0
Path: C:\RTdata
Files name: dummy
Stop Multiple save

Radio

☐ N... ☐ AM ☐ LSB ☐ USB
☐ W... ☐ D... ☐ CW ☒ RA...

Shift: 0
Filter: Blackman-Harr
Bandwidth: 10.0
Order: 50
Squ: 50
CW Shift: 1,000

Source: RTL-SDR USB

Device: E4000
Generic RTL2832U OEM (1)
Sample Rate: 2.4 MSPS
Sampling Mode: Quadrature sampling

☐ Offset Tuning
☐ RTL AGC
☐ Tuner AGC

RF Gain: 42 dB
Frequency correction [p]: 0

IF Avg Control Window & Spectral Display

Display

Theme: Fluent Dark
View: Both
Window: Blackman-Har
Resolution: 262144
Style: Static Gradien
Marker Color:
Gradient: Sharp
☐ Mark Peaks ☐ Time Markers

Smoothing
S-Attack:
S-Decay:
W-Attack:
W-Decay:
Spectrum
Speed:

Micro Tuner FM MPX Spectrum IF Spectrum



QUICK System Verification using Load/Open on *nooelec* SAWbirdH1 LNA Input

w/ RF Gain max @ 42 dB



50_ohm Load



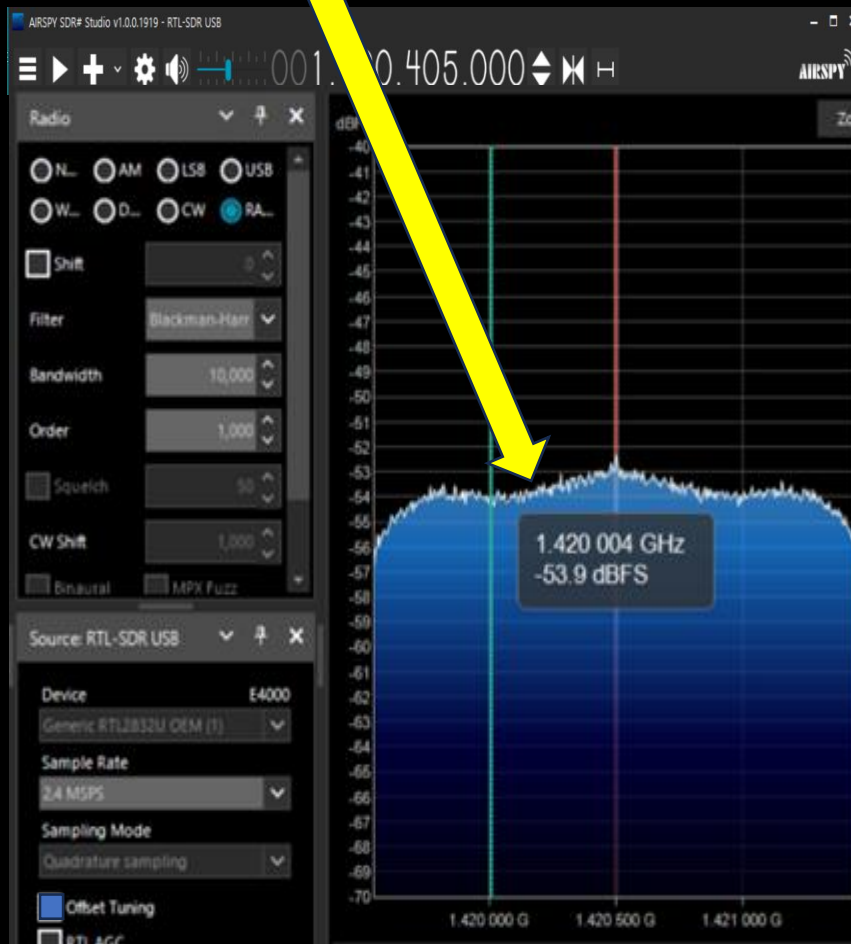
SAWbirdH1

53.9 - 58.1 =
4.2 dB difference

Open



SAWbirdH1



AIRSPY SDR# Studio v1.0.0.1919 - RTL-SDR USB

001.420.405.000

IF Average *

☒ Window *KamSoft v. 2.7*

FFT resolution: 512

Intermediate average: 100

Gain: 249

Level: 1000

Dynamic averaging: 855900

Reset ave. Reset backgr.

Stop Acq. backgr.

Save single

Multiple files

Number of files to save: 900

Delay between rec. [s]: 0

Path: C:\RTdata

Files name: dummy

Stop Multiple save

Radio

☐ N... ☐ AM ☐ LSB ☐ USB

☐ W... ☐ D... ☐ CW ☒ RA...

☐ Shift

Filter: Blackman-Harr

Bandwidth: 10,000

Order: 1,000

☐ Squelch: 50

CW Shift: 1,000

Source: RTL-SDR USB

Device: E4000

Generic RTL2832U OEM (1)

Sample Rate: 2.4 MSPS

Sampling Mode: Quadrature sampling

☒ Offset Tuning

☐ RTL AGC

☐ Tuner AGC

RF Gain: 42 dB

Frequency correction [c]: 0

Display

Theme: Fluent Dark

View: Both

Window: Blackman-Harr

Resolution: 262144

Style: Static Gradient

Marker Color:

Gradient: Sharp

☐ Mark Peaks ☐ Time Markers

Smoothing

S-Attack

S-Decay

W-Attack

W-Decay

Spectrum

Speed

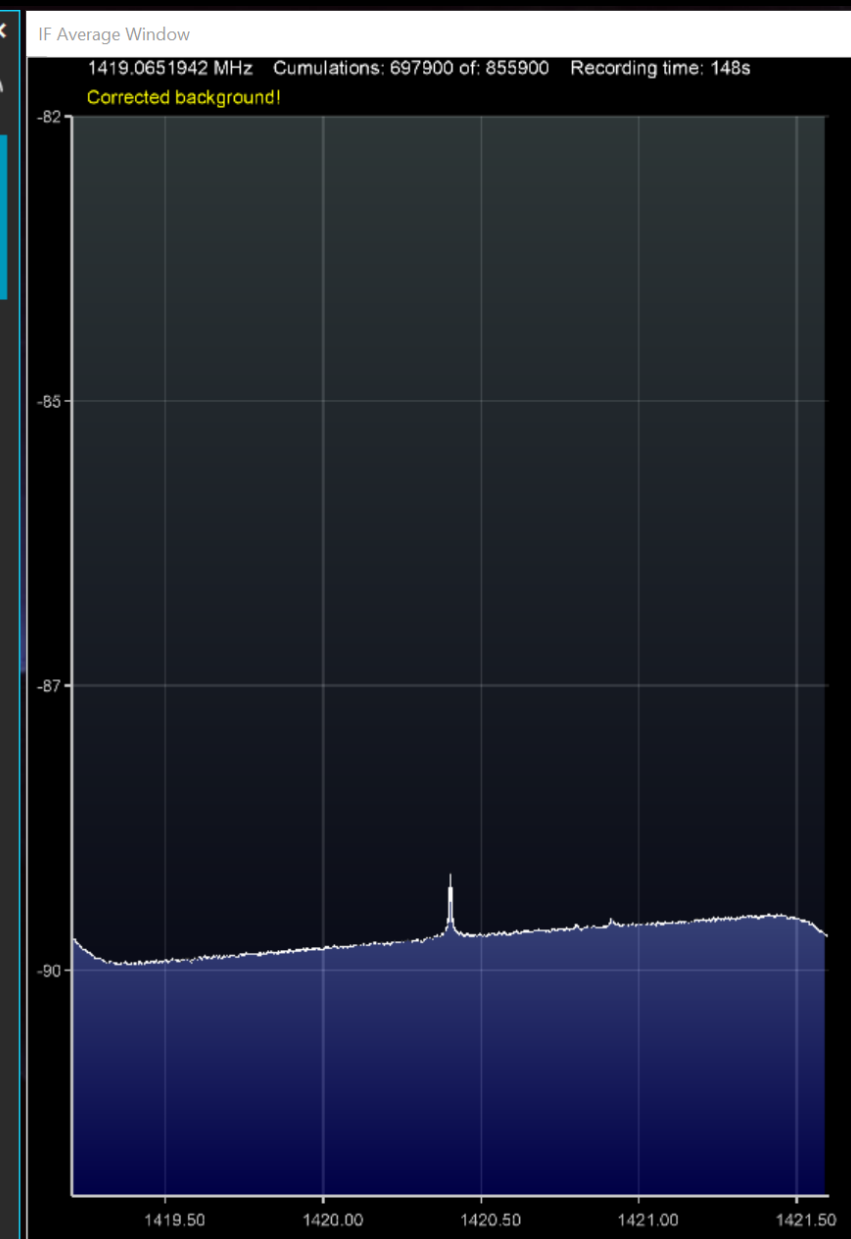
Zoom

Contrast

Range

Offset

Micro Tuner FM MPX Spectrum IF Spectrum



AirSpy SDR# > Kaminski IF_avg Plugin > HLine3D > Rinearn Graphics

