



nesdr_driver_installer_for_windows.exe

Completed — 4.9 MB

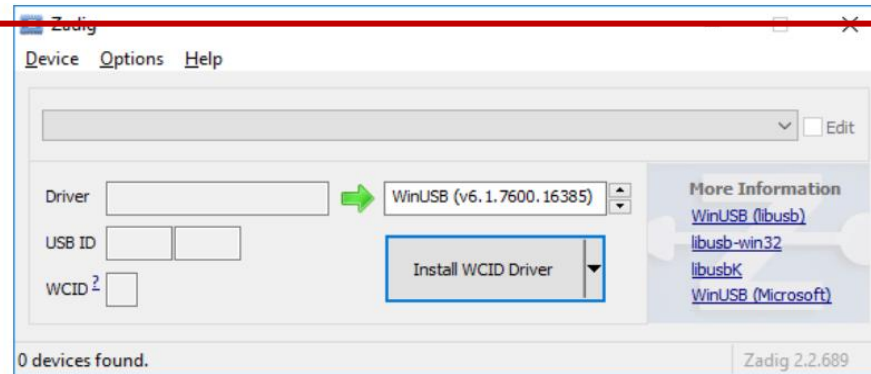
nooelec neSDR SMArT SDR Zidag Software Driver Installation

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

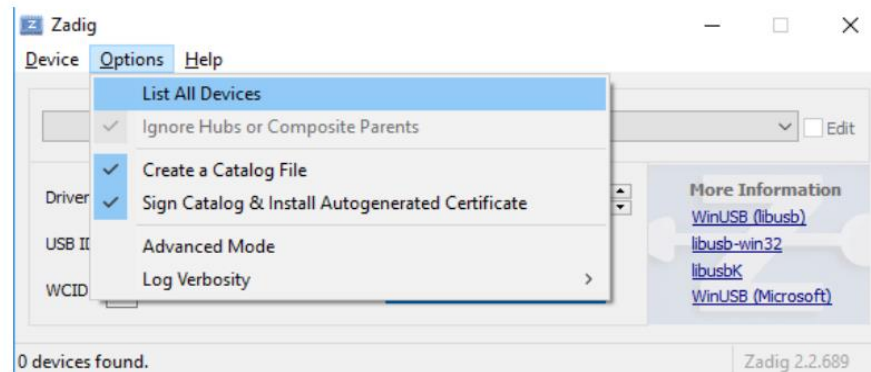
This driver is required to use RTL-SDR compatible SDR software on Windows operating systems.

[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



SOFTWARE AirSpy SDR# Studio

IF_Ave Ver 2.8 PlugIn for SDR# Studio
Full Installation of SDR# & IF_Ave 2.7

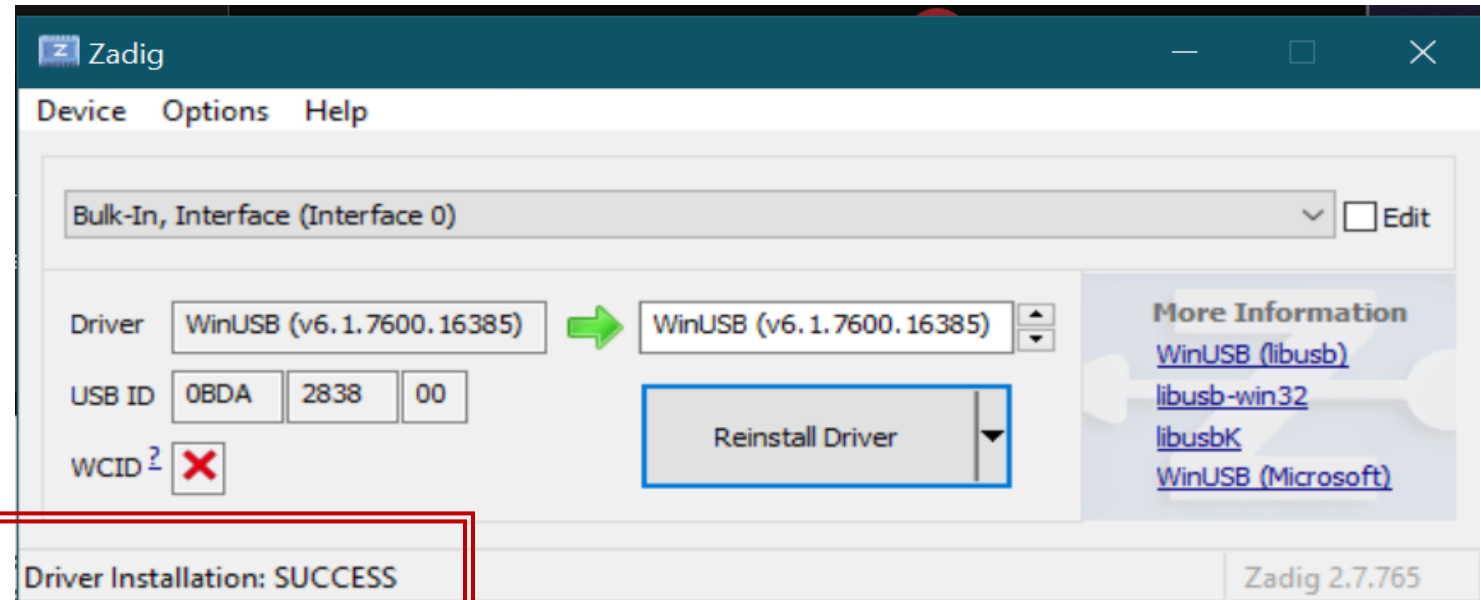
<https://www.dropbox.com/scl/fi/2f67lyu6qgt2cp98rg9kp/SDR-2.ZIP?rlkey=y82yv6jzjyu7e92sap3x8ewm7&st=tcil7w3s&dl=0>

The latest Rev of IF_Ave allows
Saving and Recalling named Background Correction Files
replace the above with this newer * DLL

IF_Ave Version 2.8

<https://www.dropbox.com/scl/fi/aitn8xtookwwxm6mvybkb/SDRSharp.Average.dll?rlkey=667f4a83958krm77ie2862jxf&dl=0>

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 (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

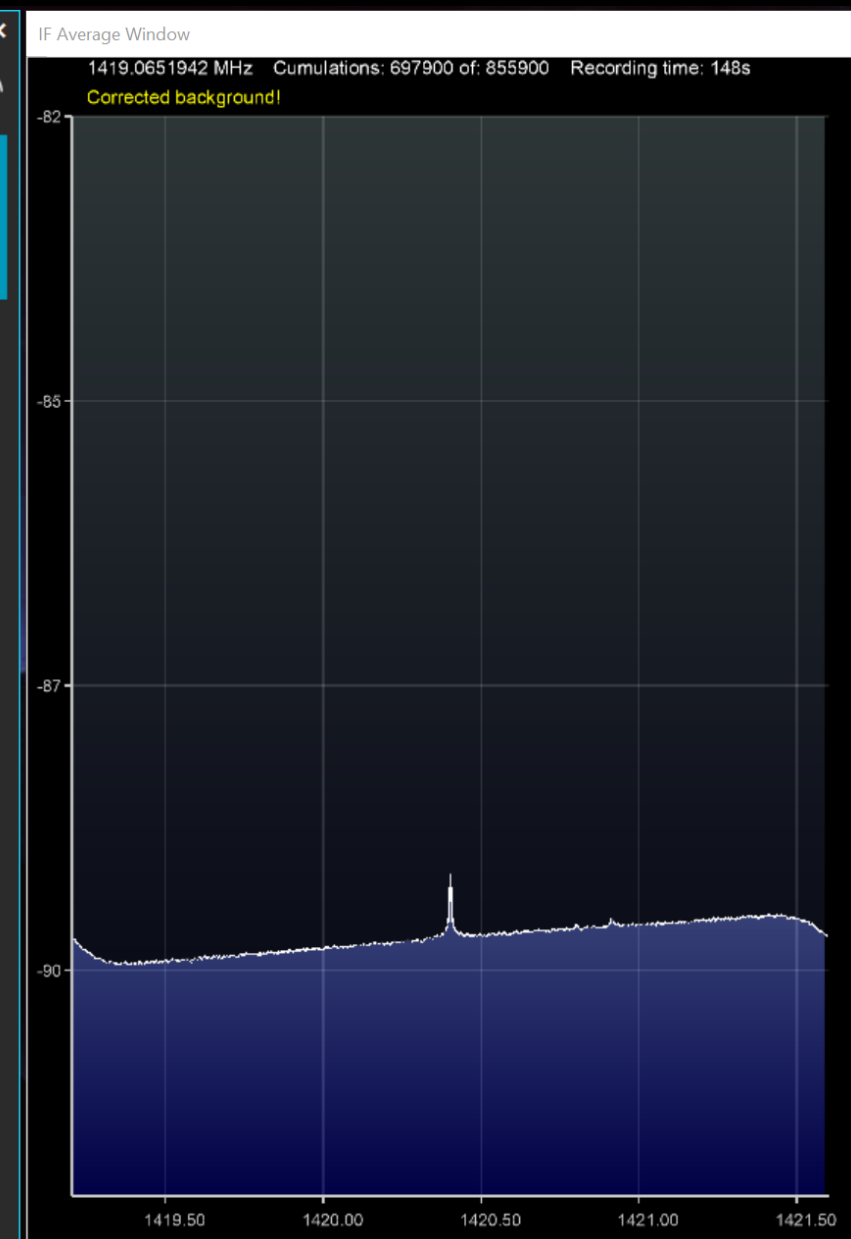
Zoom

Contrast

Range

Offset

Micro Tuner FM MPX Spectrum IF Spectrum



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

1.420.405.000

Set Center Freq & Center Tuning

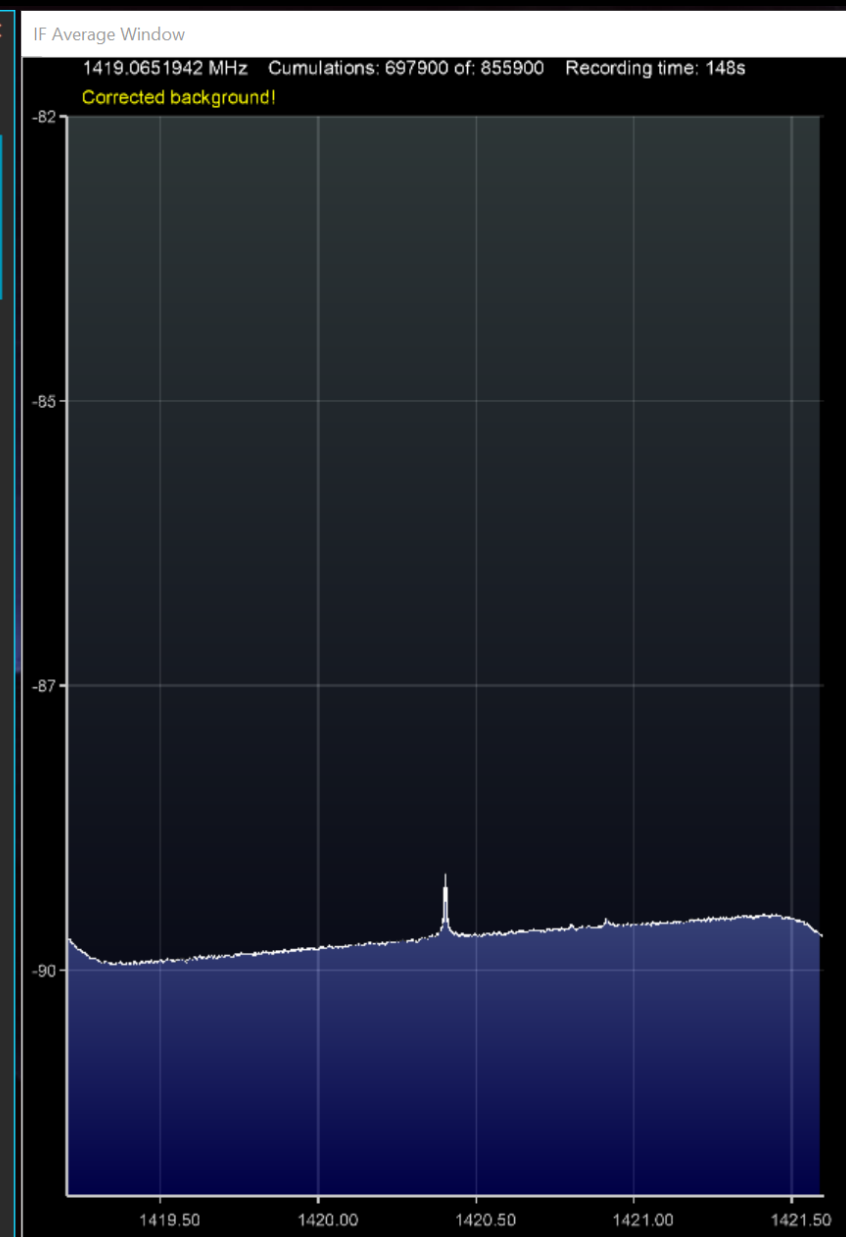
IF Average *
Window
KamSoft v. 2.7
FFT resolution: 512
Intermediate average: 100
Gain: 249
Level: 1000
Dynamic averaging: 855900
Reset ave. Reset backgr.
Stop Acq. backgr.
Save single

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

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

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

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

Zoom

Contrast

Range

Offset

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

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

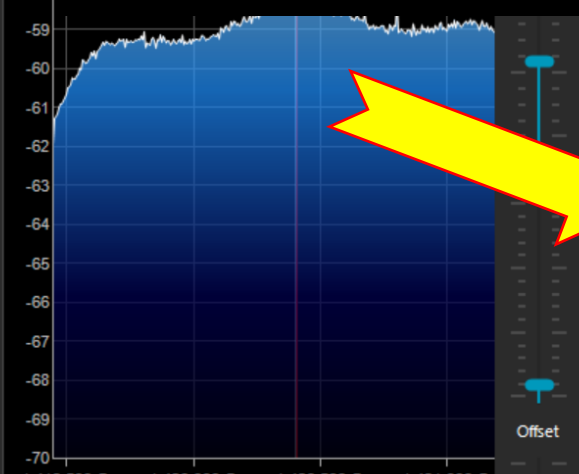
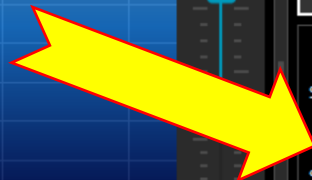
Frequency correction [p

0

dBFS



Zoom

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

Offset

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

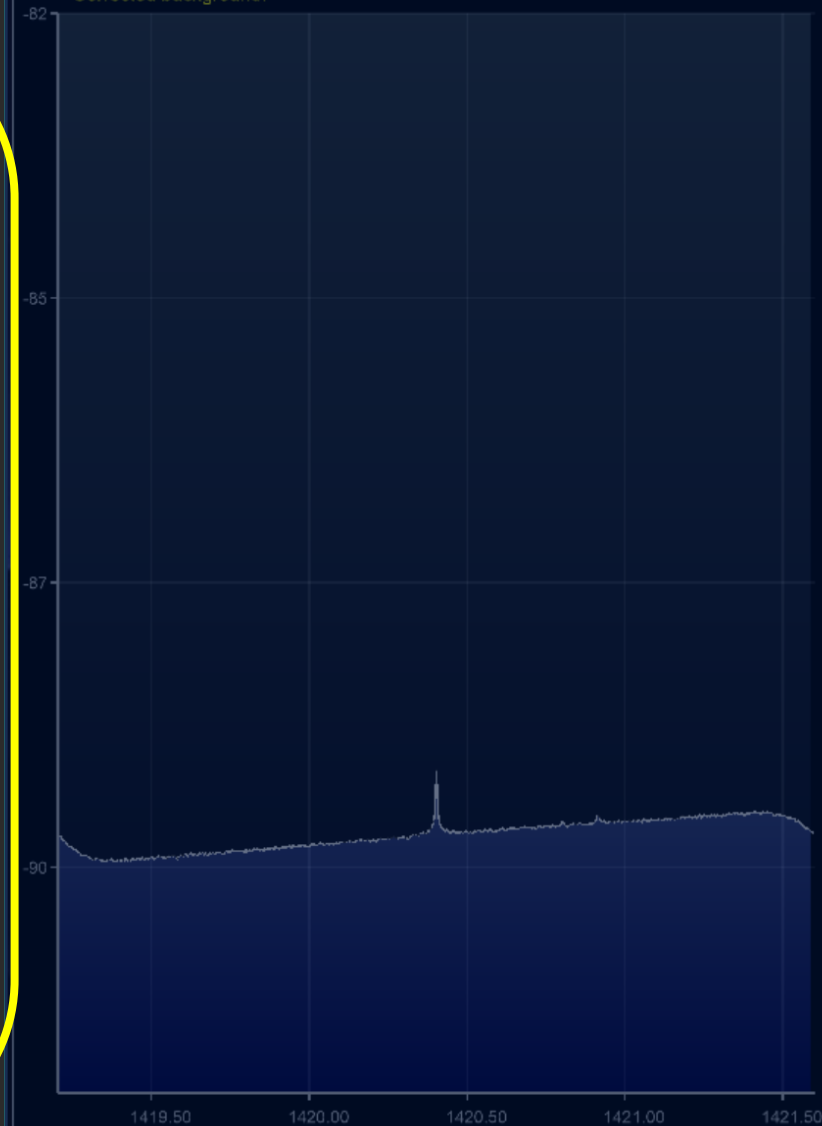
Speed

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

- Mode: N... AM LSB USB W... D... CW RA...
- Filter: Blackman-Harr
- Bandwidth: 10.0
- Order: 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

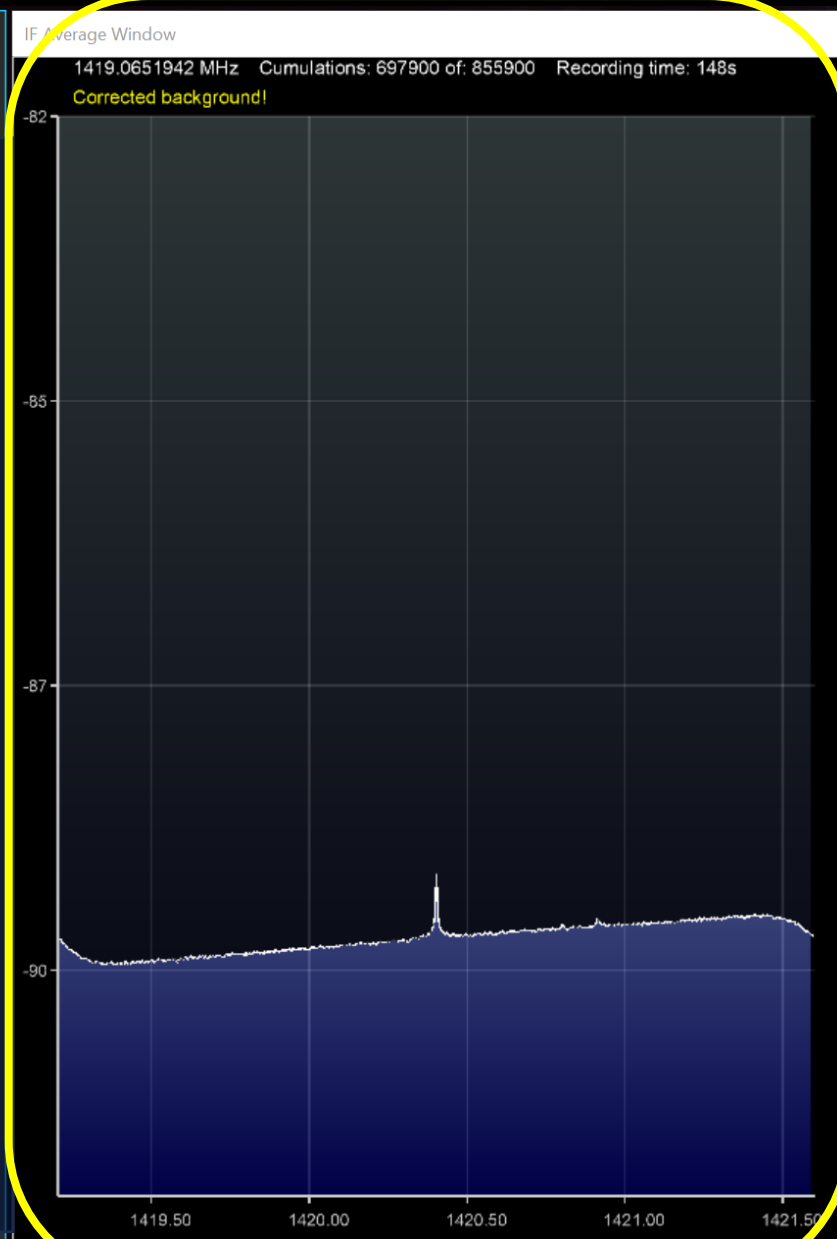
IF Avg Control Window & Spectral Display

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

Frequency Manager

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



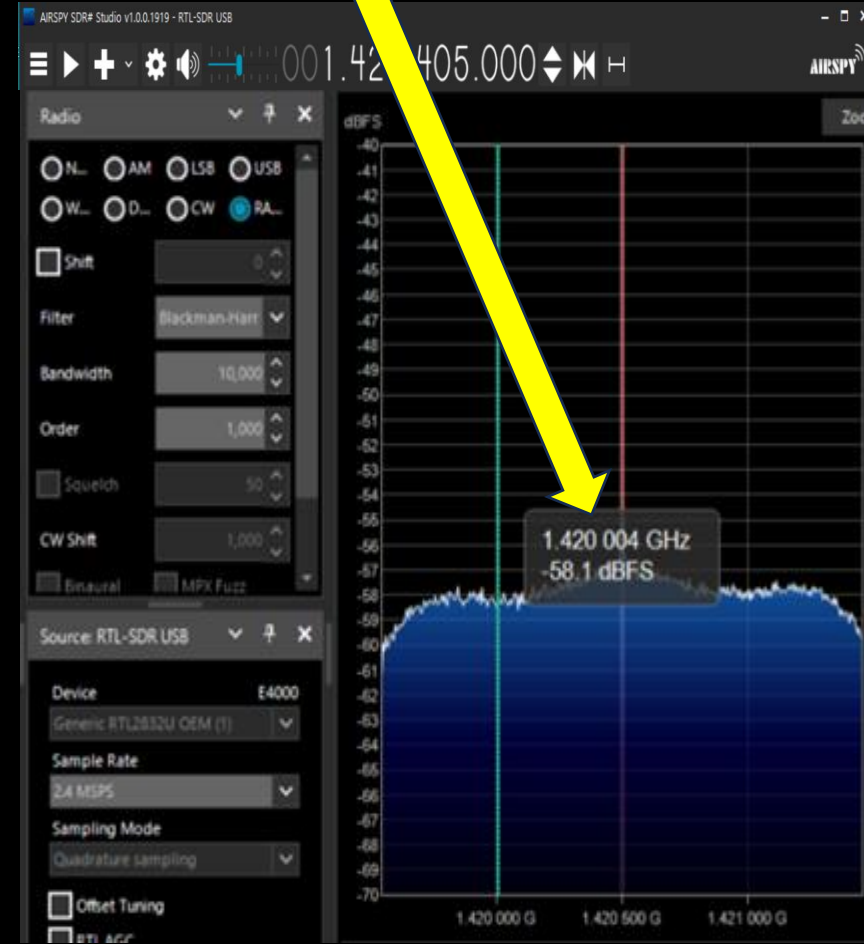
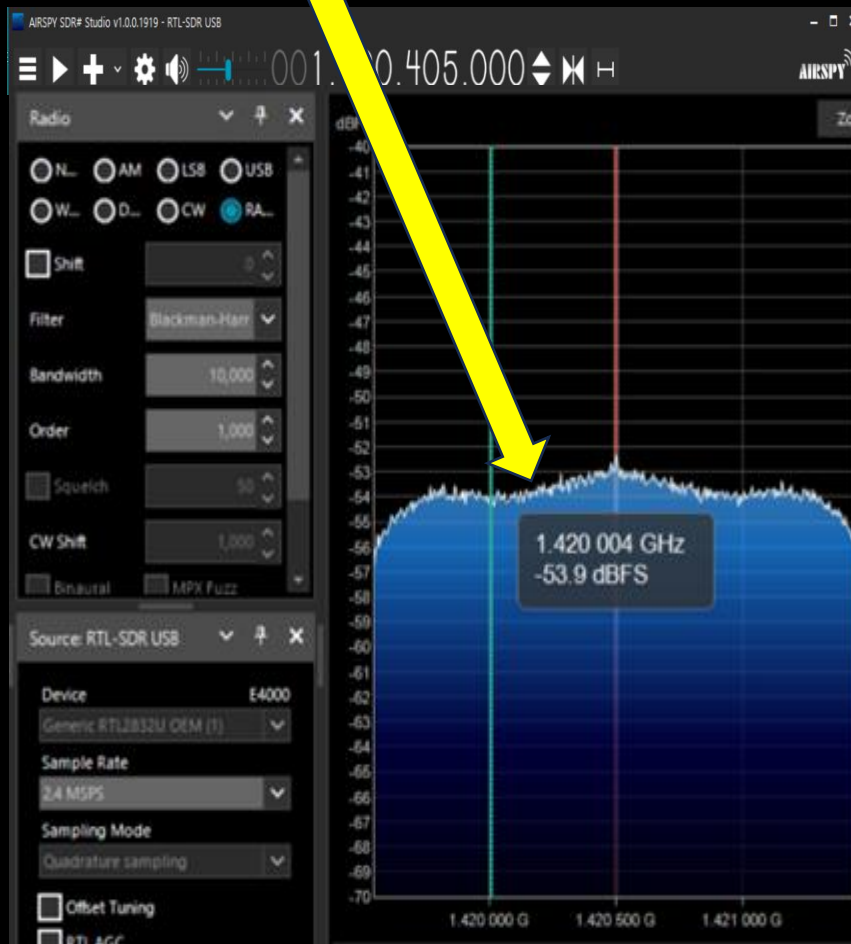
SAWbirdH1

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 (p): 0

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Theme: Fluent Dark

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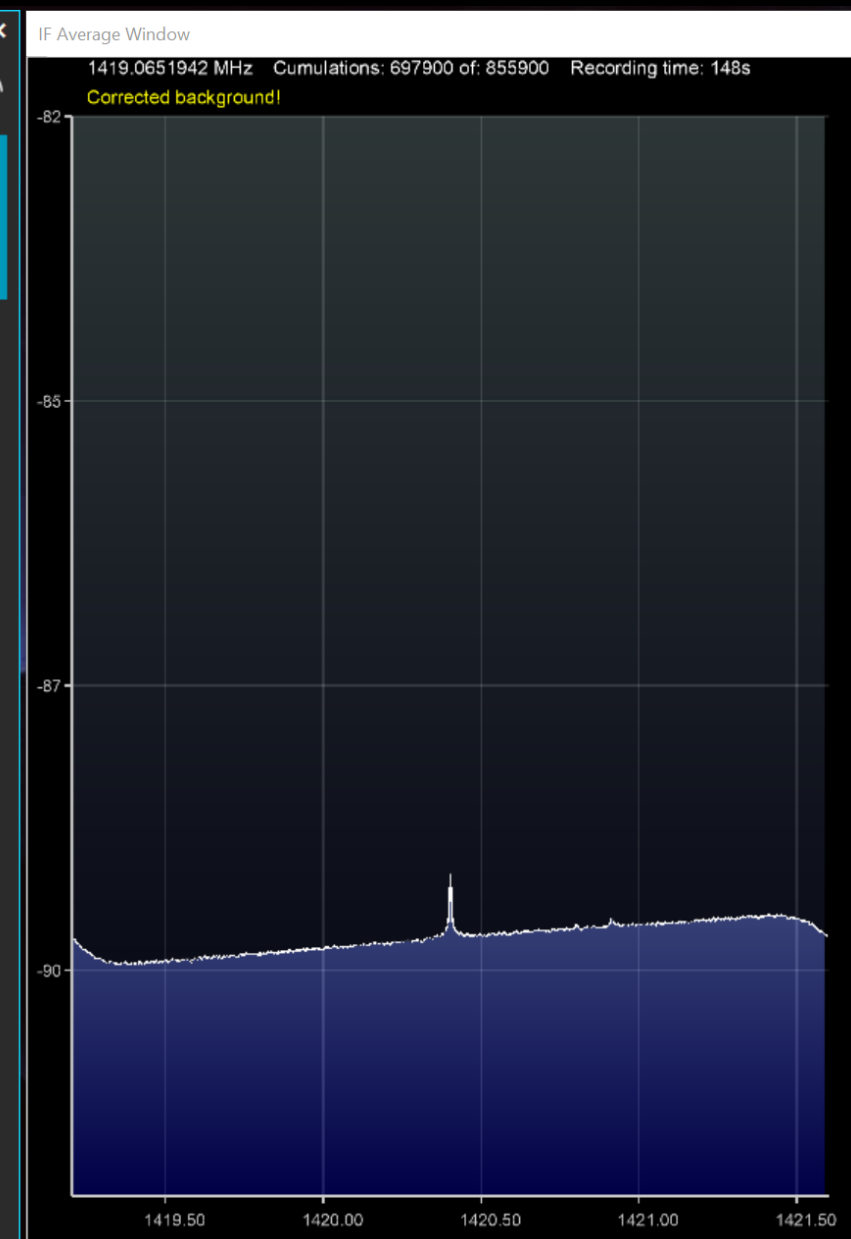
Zoom

Contrast

Range

Offset

Micro Tuner FM MPX Spectrum IF Spectrum



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

