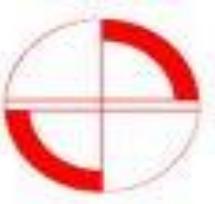




PAN INDIA CONSULTANTS PVT LTD.
105, Phase IV
Udyog Vihar
Gurgaon-122015
Haryana, India

What we do...



- Seismic digitizers/ recorders
- Seismic sensors
- Earthquake Monitoring Services
- Software by our OEM Geobit

Pan India Consultants

- ✓ Seismic Tomography
- ✓ Natural Seismicity Monitoring
- ✓ Induced Seismicity Monitoring
- ✓ Structural Monitoring
- ✓ Reservoir Monitoring

Benefits

- Low power instruments
- Cost Efficient
- Easy of use
- Wide band response, high sensitivity sensors
- Field tested for Induced Seismicity
- High Reliability
- All made in Europe, nothing made in China

Geobit Instruments

Monitoring the earth

- ✓ Seismic Tomography
- ✓ Natural Seismicity Monitoring
- ✓ Induced Seismicity Monitoring
- ✓ Structural Monitoring
- ✓ Reservoir Monitoring

GEOtinyMK2: Compact Digital Seismometer (10sec-98Hz)



Geobit Instruments

Monitoring the earth

- ✓ 3 velocity + 3 acceleration ch
- ✓ Modular Sensor Electronics
- ✓ 10s to 4,5Hz low cut frequency
- ✓ High Sensitivity 1500V/m/sec
- ✓ Ultra low power consumption.
- ✓ 24bit digitizer.
- ✓ Surface Type
- ✓ Supports all SRi32S functionality

GEOtiny20: Compact Digital Seismometer (20sec-50Hz)

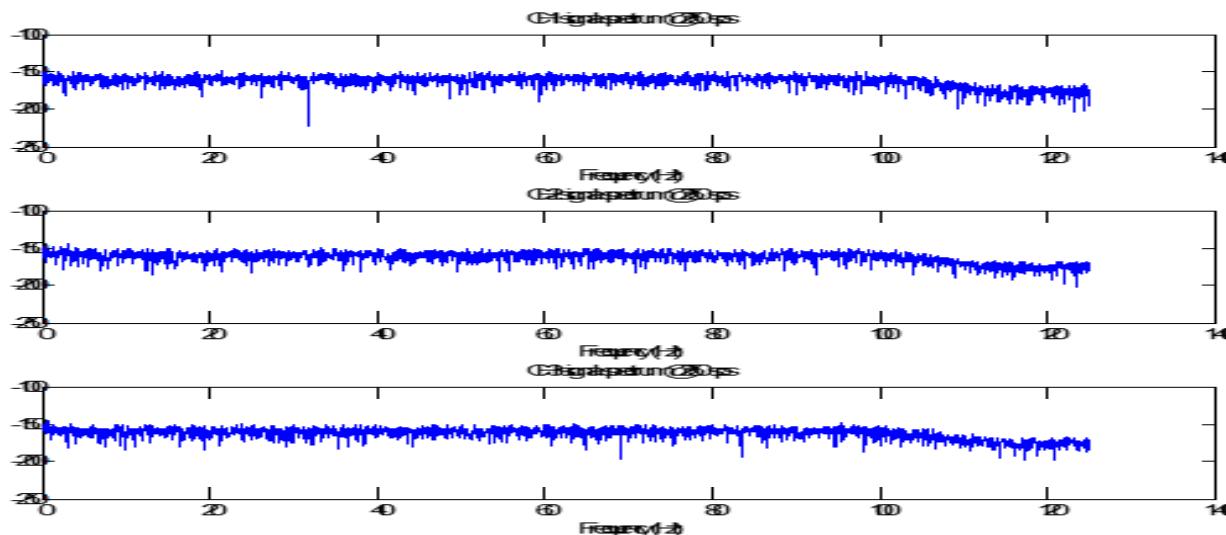


Geobit Instruments

Monitoring the earth

- ✓ 3 velocity + 3 acceleration ch
- ✓ Modular Sensor Electronics
- ✓ 20s to 50Hz frequency response
- ✓ High Sensitivity 1500V/m/sec
- ✓ Ultra low power consumption.
- ✓ 24bit digitizer.
- ✓ Surface Type

SRI32 Standalone Digitizer / Recorder



Geobit Instruments

Monitoring the earth

- ✓ Ultra High Resolution Digitizer,
- ✓ 32bit ADC, 138dB @ 100sps
- ✓ Ultra Low Power Consumption 0.66W
- ✓ Variable input range front end
- ✓ 4 extra analog lines
- ✓ 4 digital outputs
- ✓ Embedded Seedlink Server

3/6 channels Seedlink Digitizers (Real Time Telemetry)



Geobit Instruments

Monitoring the earth

- ✓ Ultra High Resolution Digitizer
- ✓ Integrated sensor electronics
- ✓ 32bit ADC, 138dB @ 100sps
- ✓ Ultra Low Power Consumption 0.74W
- ✓ Embedded Seedlink Server
- ✓ Telemetry or Local Recording

Web Interface Menu

+ Digitizer & SeedLink Stream Server

START STOP **Seedlink Server is running** CLEAR BUFFER

Sampling Rate: 500 sps
Filter Response: LINEAR
Gain: 1
GPS cycle: 60 sec
Active Channels: 3
Network description: HP Network
Network ID: HP
Station Name: GBT1
Station description: GBT1 Node
Channel Prefix: BH
Archive:
Archive Keep: 5 days

SUBMIT READ

+ Trigger Detection

START STOP **Trigger Detection is running**

LTA Time: 8 sec
STA Time: 3 sec
Decimation Factor: 1
Ratio: 2.3
Quiet: 2
Trigger History: 5
Time Tolerance: 2 sec
Publish Network Trigger:
Trigger Server: 192.168.1.252

SUBMIT REFRESH

+ System

Boot Mode

Basic Stream:
Triggered Stream:
Trigger Detection:

Persistent Logs:

SUBMIT REBOOT

+ Shutdown

+ Triggered SeedLink Chain

START STOP **Seedlink Chain is running** CLEAR BUFFER

Pre Trigger: 1 min
Post Trigger: 1 min
Local Trigger:
Subscribe Network Trigger:
Trigger Server: 192.168.1.252
Archive:
Archive Keep: 30 days

SUBMIT REFRESH

Geobit Instruments

Monitoring the earth

- ✓ User Friendly
- ✓ Web Brower connection
- ✓ Station Remote Control
- ✓ Recording parameters set
- ✓ Seismometer control
- ✓ Network interface set

Applications

Smart Seismic Network

- Transmits only the signal part which contains the earthquake
- Saves 95% of data transmission cost.
- Allows higher data rate acquisition at minor cost
- Very reliable technique collecting triggers from all the stations of the network
- The SEVER DECIDES if triggers are related to earthquake or reject them if they are related to noise

Geobit Instruments

Monitoring the earth

- ✓ Smart Seismic Networks
- ✓ Smart Event trigger
- ✓ 100% reliable
- ✓ 0% event loss
- ✓ 98% transmission cost reduction

Installation & Training- Pan India



Geobit Instruments

Monitoring the earth

- ✓ BHU Varansai
- ✓ ONGC Vadodra Gujrat
- ✓ ISM Dhanbad

Installation & Training- Pan India



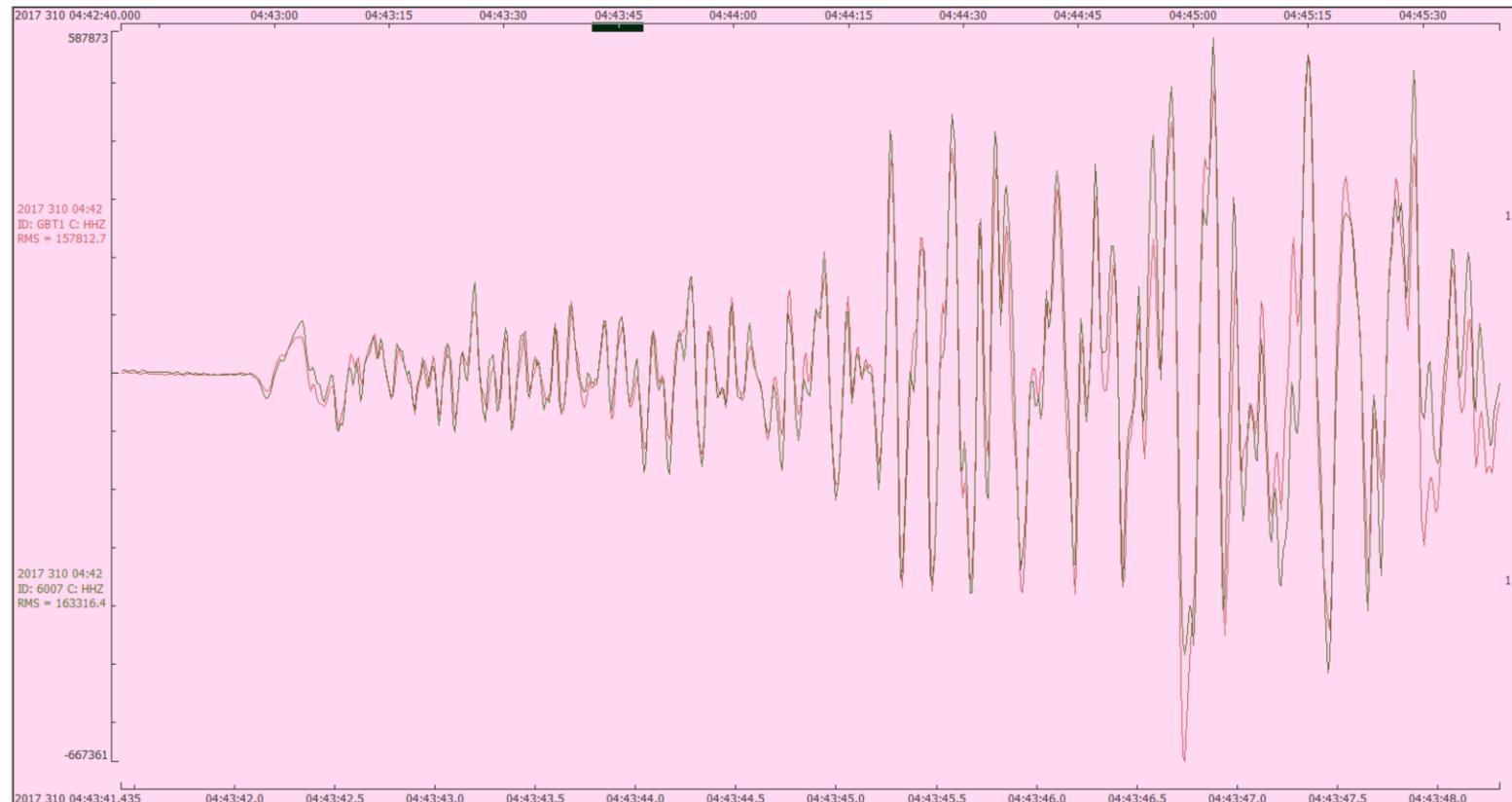
Geobit Instruments

Monitoring the earth

- ✓ Products installation
- ✓ Full training
- ✓ After sales support

Sensor Performance

- Earthquake 1: ML=3.5, D=25km



Geobit Instruments

Monitoring the earth

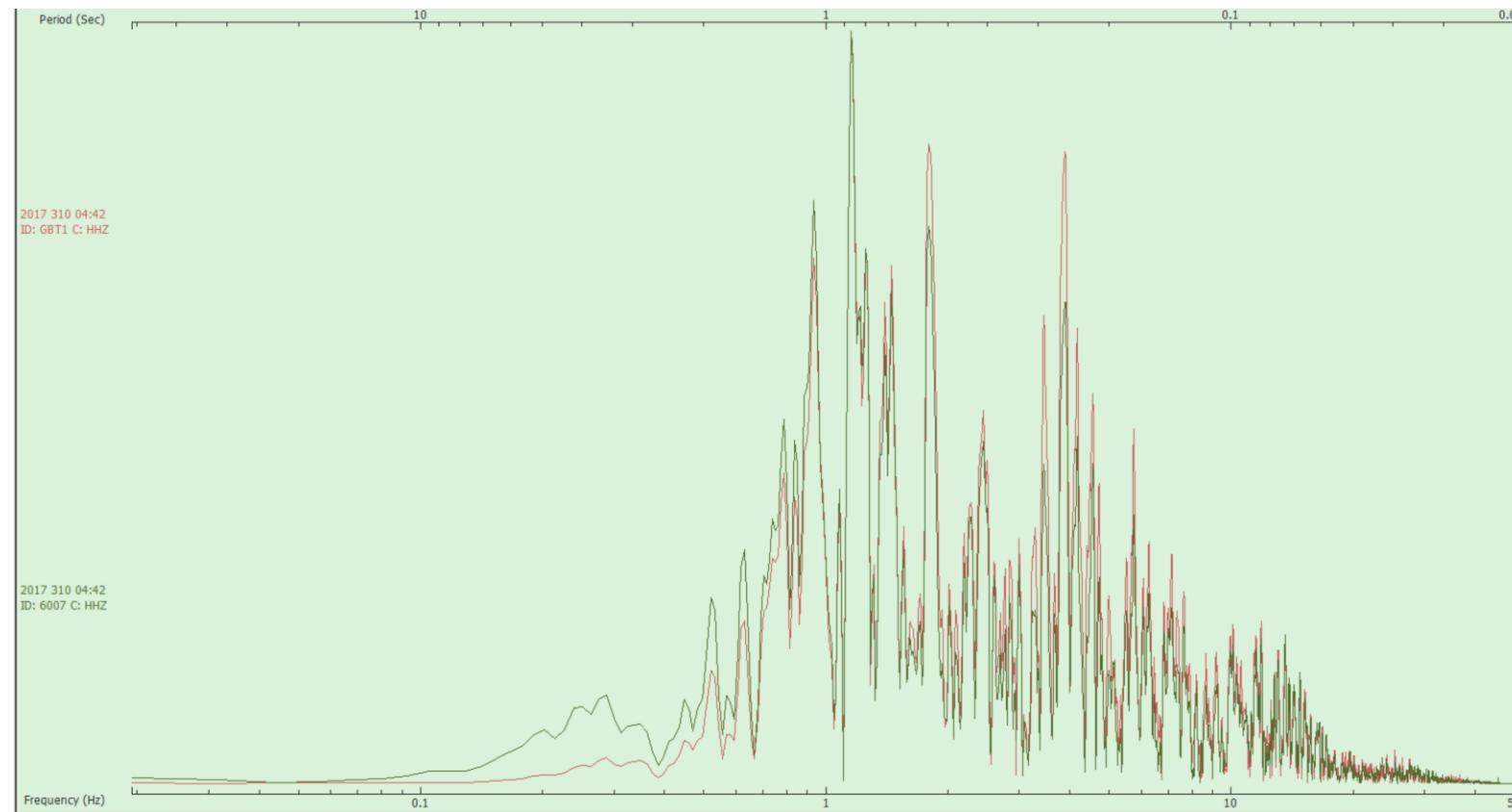
RAW DATA plot:

-Top: Guralp 3T/DM24

-Bottom: GEObit C100/SRi32

Sensor Performance

- Earthquake 1: ML=3.5, D=25km



Geobit
Instruments

Monitoring the earth

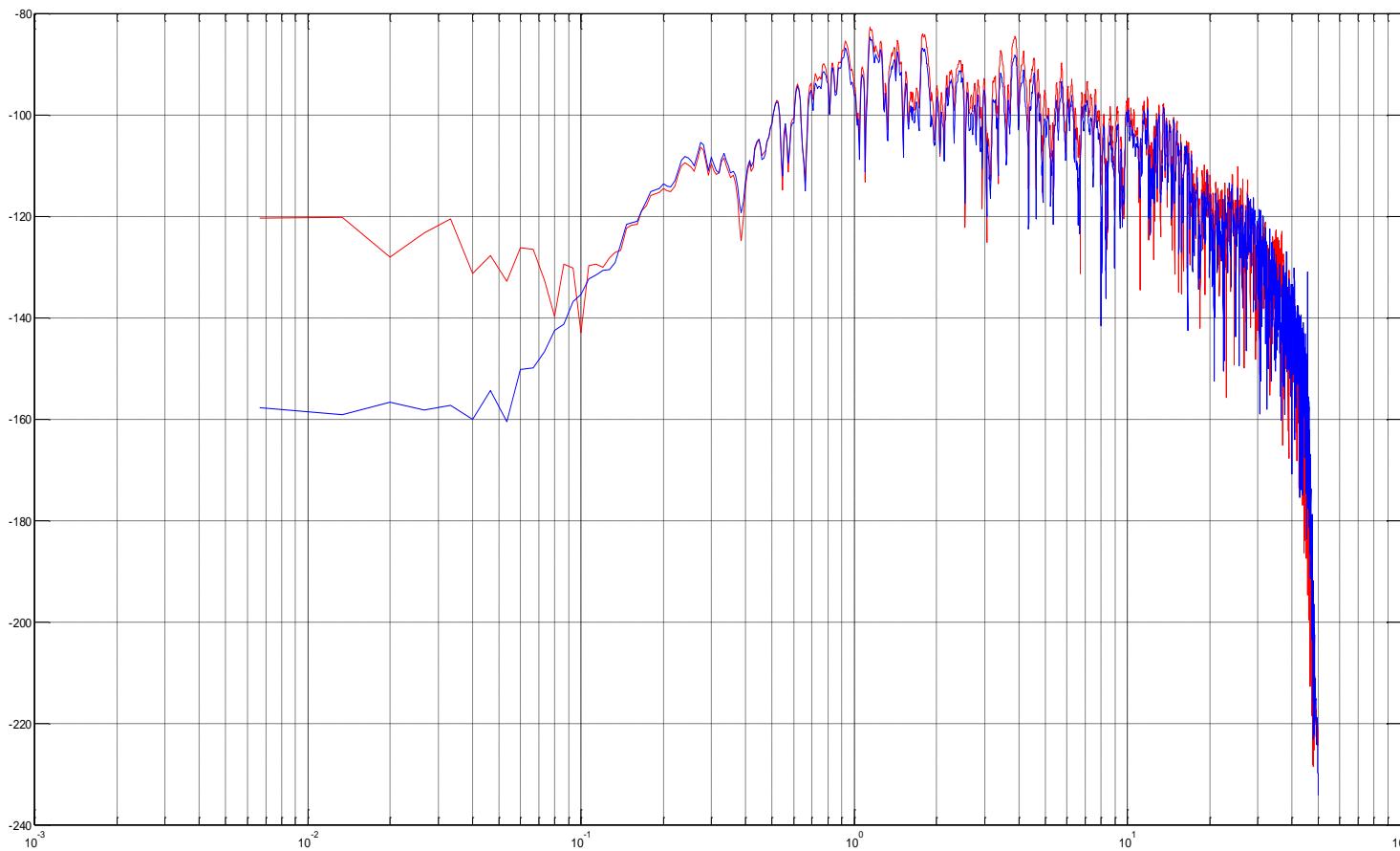
RAW DATA spectrum:

-Green: Guralp 3T/DM24

-Red: GEObit C100/SRi32

Sensor Performance

- Earthquake 1: ML=3.5, D=25km



Geobit
Instruments

Monitoring the earth

Signal PSD

-Blue: Guralp 3T/DM24

-Red: GEObit C100/SRi32

Sensor Performance

- Earthquake 2: ML=3.4, D=10km



Geobit Instruments

Monitoring the earth

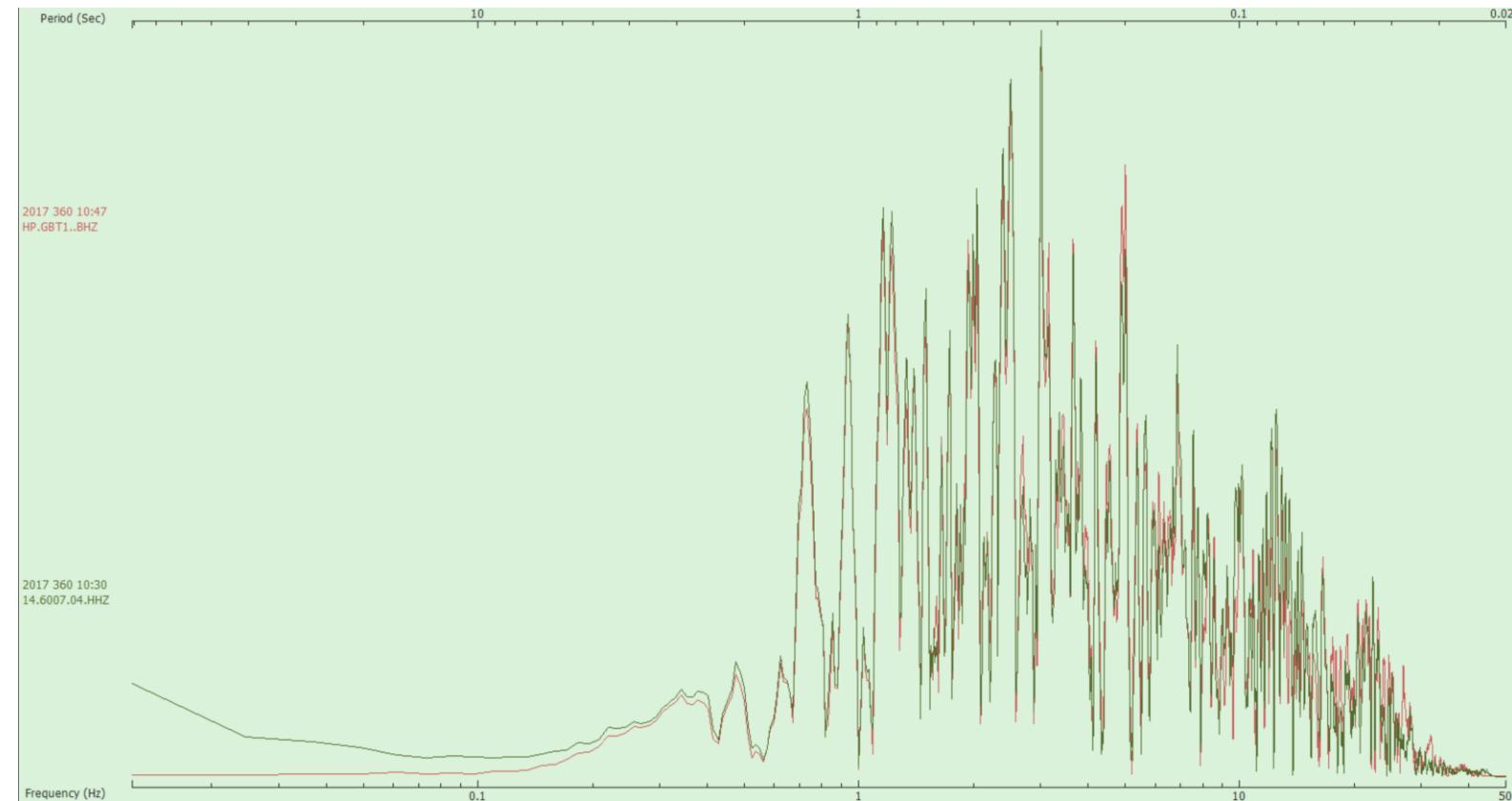
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-Bottom: GEObit C100/SRi32

Sensor Performance

- Earthquake 2: ML=3.4, D=10km



Geobit
Instruments

Monitoring the earth

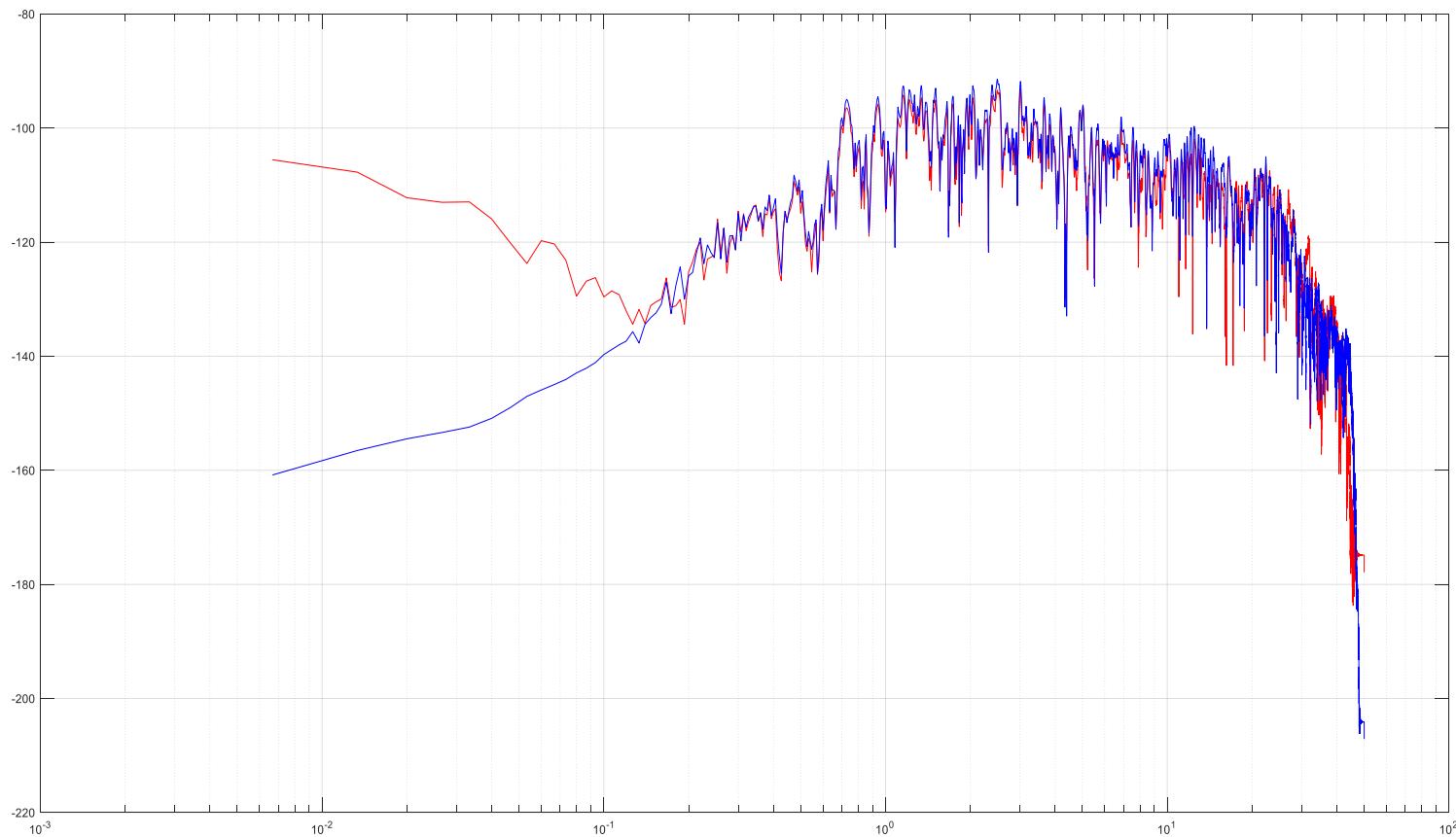
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Sensor Performance

- Earthquake 2: ML=3.4, D=10km



Geobit
Instruments

Monitoring the earth

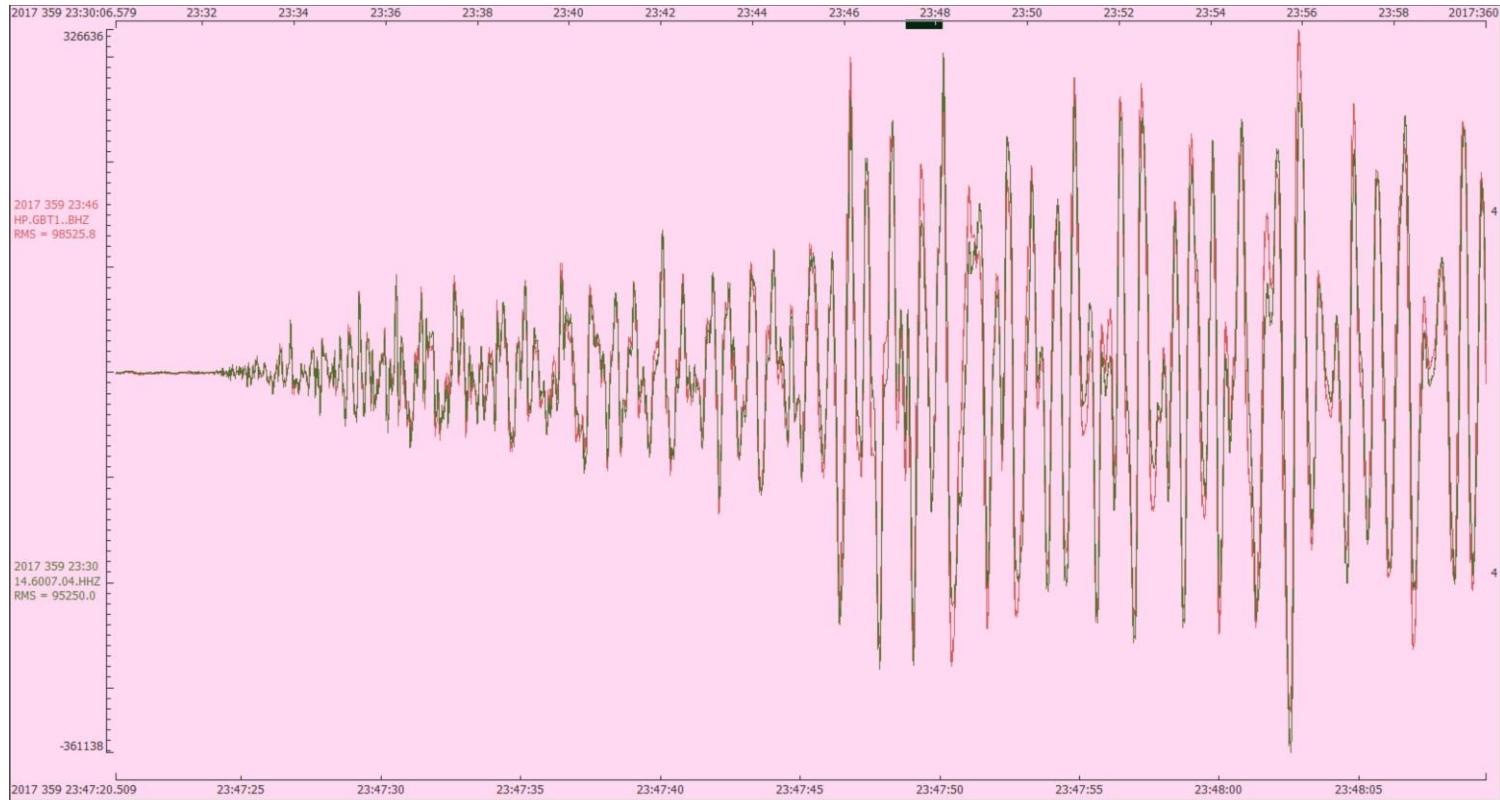
Signal PSD

-Blue: Guralp 3T/DM24

-Red: GEObit C100/SRi32

Sensor Performance

- Earthquake 3: ML=4.7, D=130km



Geobit Instruments

Monitoring the earth

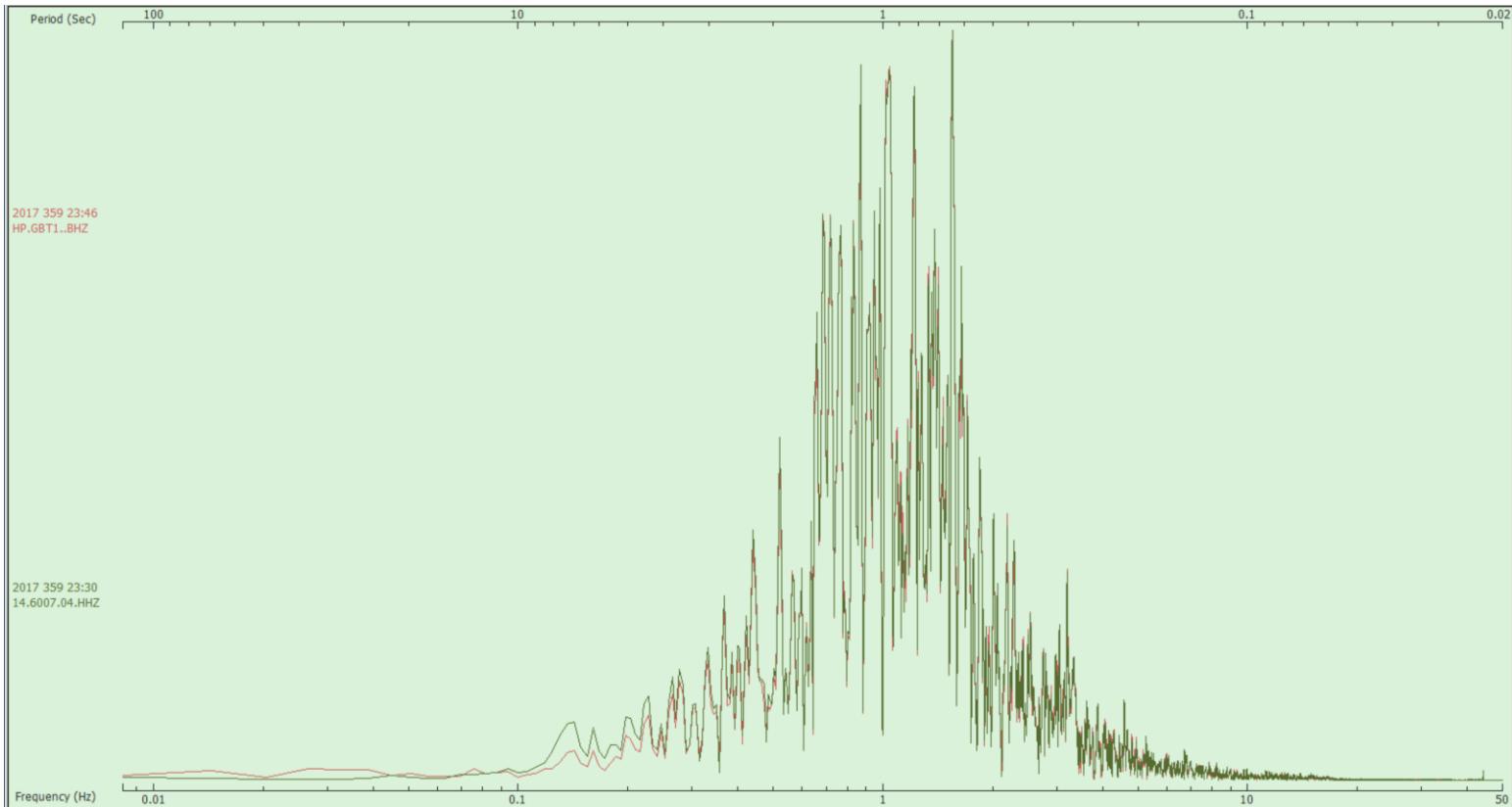
RAW DATA plot:

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Sensor Performance

- Earthquake 3: ML=4.7, D=130km



Geobit Instruments

Monitoring the earth

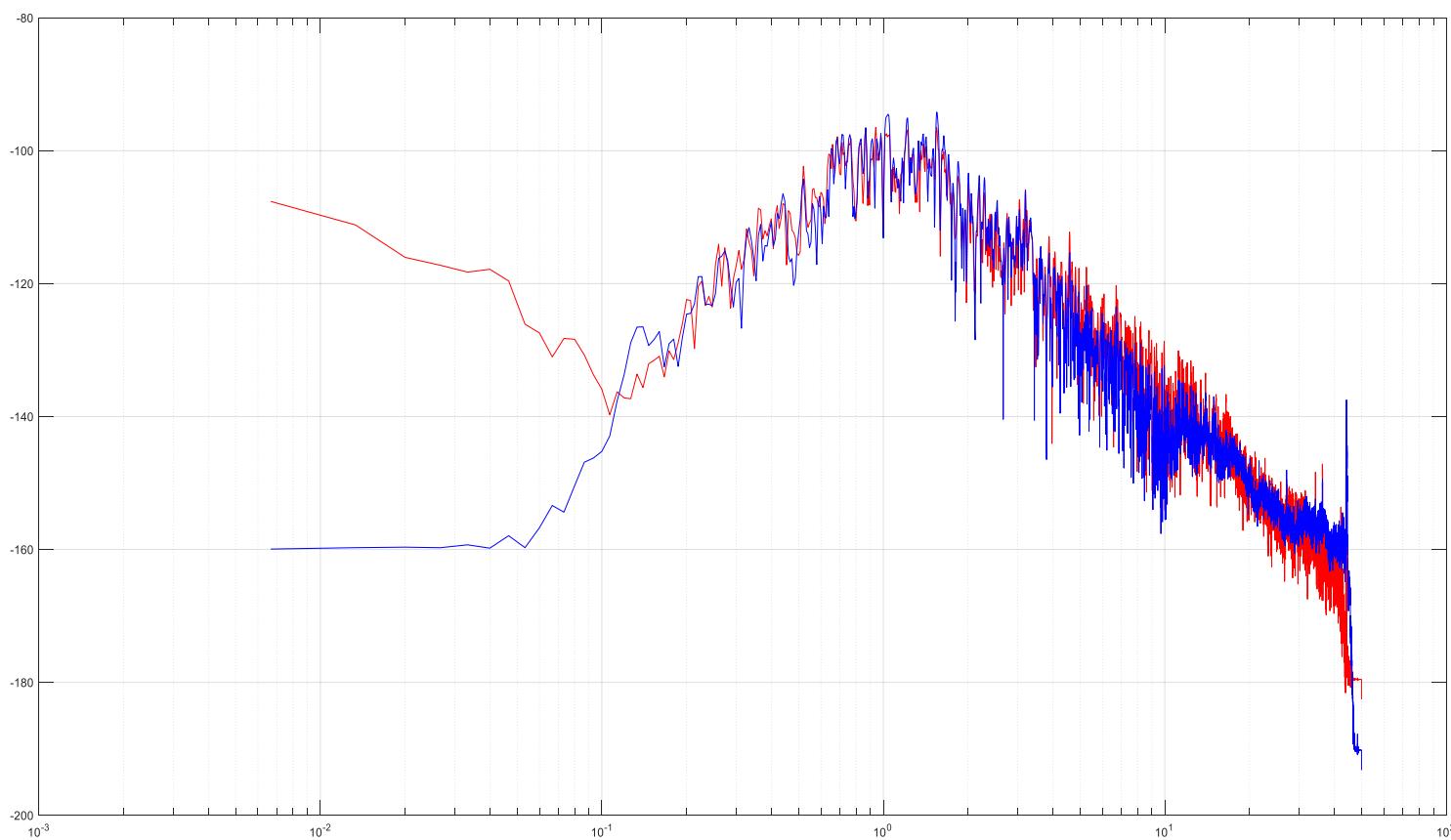
RAW DATA spectrum:

-Top: Guralp 3T/DM24

-Bottom: GEObit C100/SRi32

Sensor Performance

- Earthquake 3: ML=4.7, D=130km



Geobit
Instruments

Monitoring the earth

Signal PSD

-Blue: Guralp 3T/DM24

-Red: GEObit C100/SRi32

Sensor Performance

Testing the GEOtinyMK2 next to a Guralp
3T/DM24



Geobit Instruments

Monitoring the earth

- ✓ Side-by-Side testing Geobit vs Gurlap

Installation Case



PAN INDIA
CONSULTANTS

- ✓ ONGC VADODARA GUJRAT
- ✓ BHU VARANSHI
- ✓ ISM DHANBAD

Installation case



Geobit Instruments

Monitoring the earth

- ✓ BHU Varansi
- ✓ Induced seismicity
- Monitoring Network

Valuable Customers:

- ONCG India



- BHU Varansi



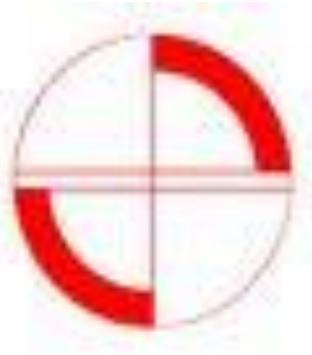
- ISM Dhanbad



Geobit Instruments

Monitoring the earth

Thanks to all our customers for
trusting GEObit-instruments



Thank you !

धन्यवाद

Pan India Consultants Pvt
Ltd.