

Apêndice

Detonações Realizadas no Canteiro de Obras da UHE Santo Antônio

Julho 2012

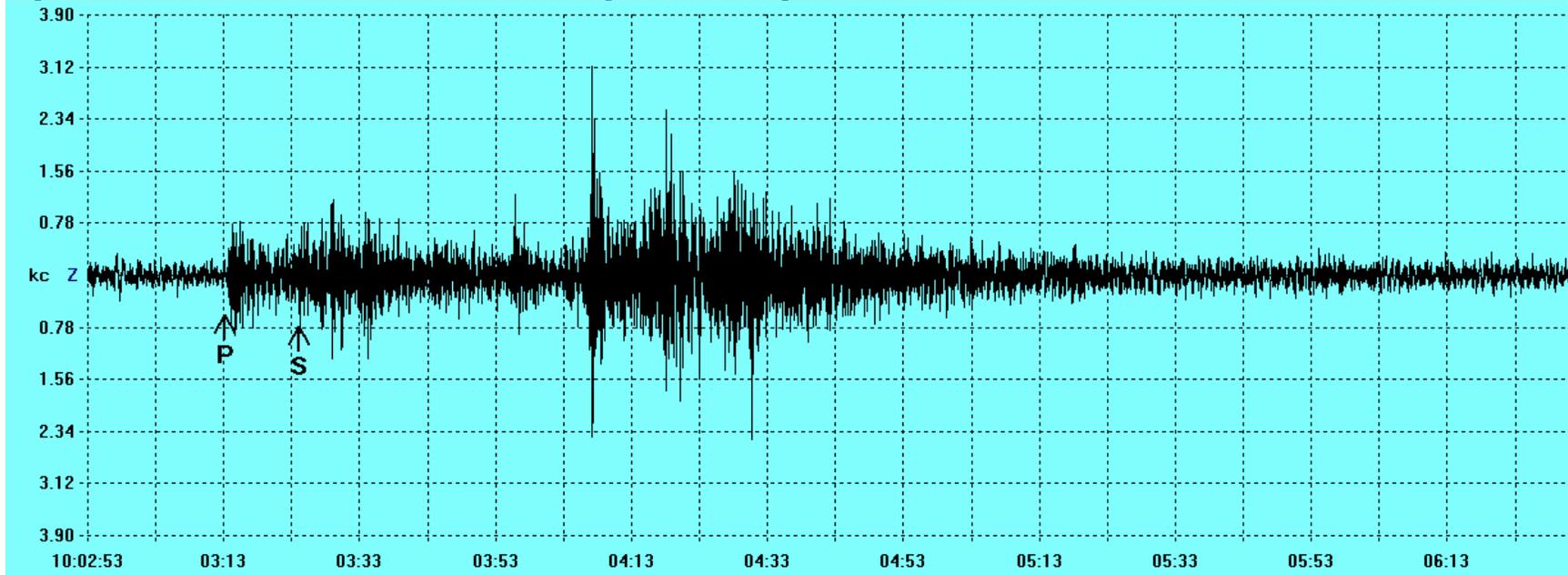
Registros das Estações SAML, SANT1 e SANT2

Observação

Todos os registros da estação SAML mostrados nesta seção foram filtrados com um filtro do tipo high-pass (acima de 1.0 Hz, com 4 polos). Quando foi empregado outro tipo de filtro, o procedimento foi indicado em cada caso. Todos os registros das estações SANT1 e SANT2 mostrados nesta seção foram filtrados com um filtro do tipo high-pass acima de 0.1 Hz.

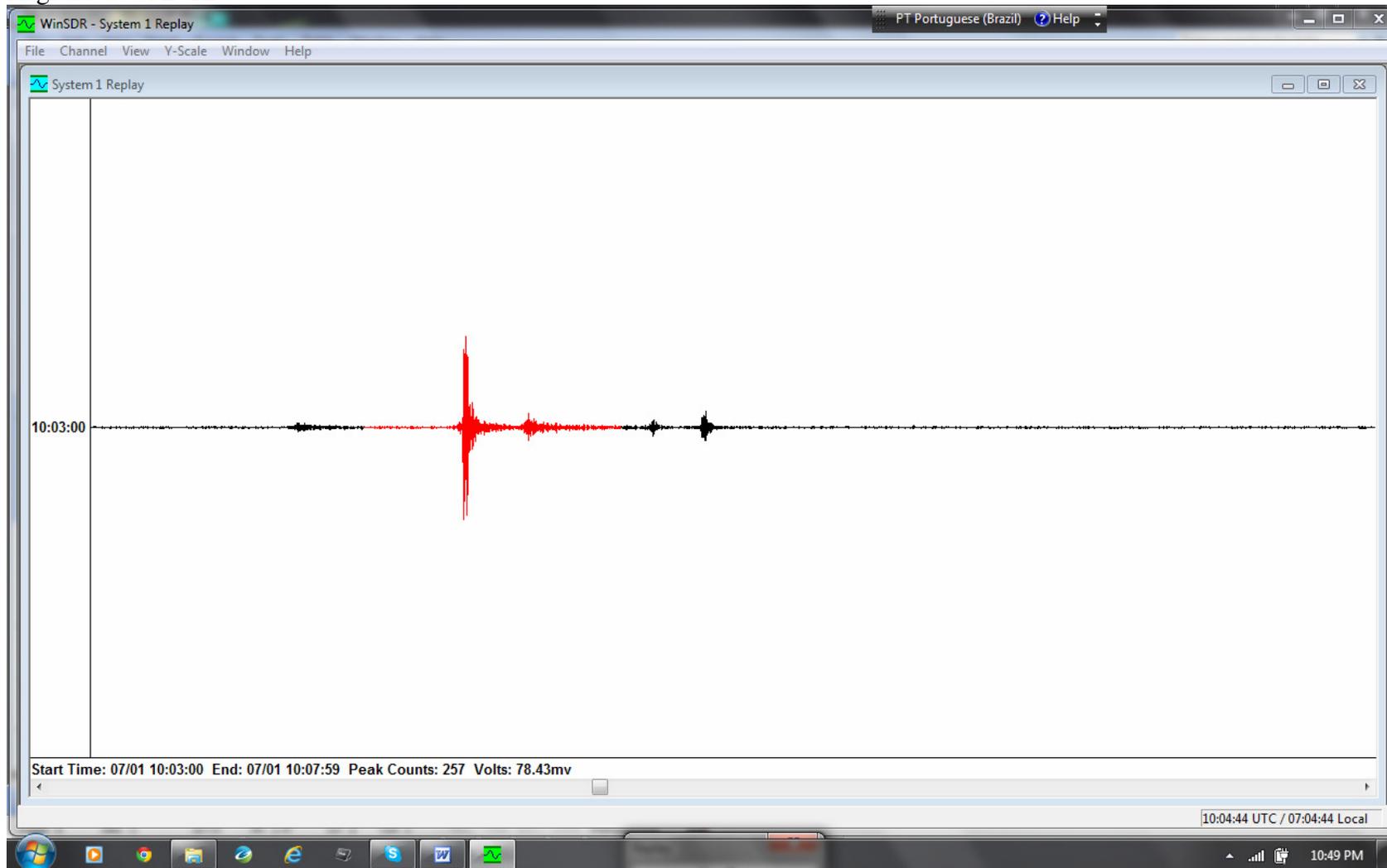
Registro de SAML:

Start: 7/01/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3134/-3805 X: 3:38.0 Y: 3.9kc
Org: 10:02:58.2 P: 10:03:13.1 S: 10:03:24.1 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



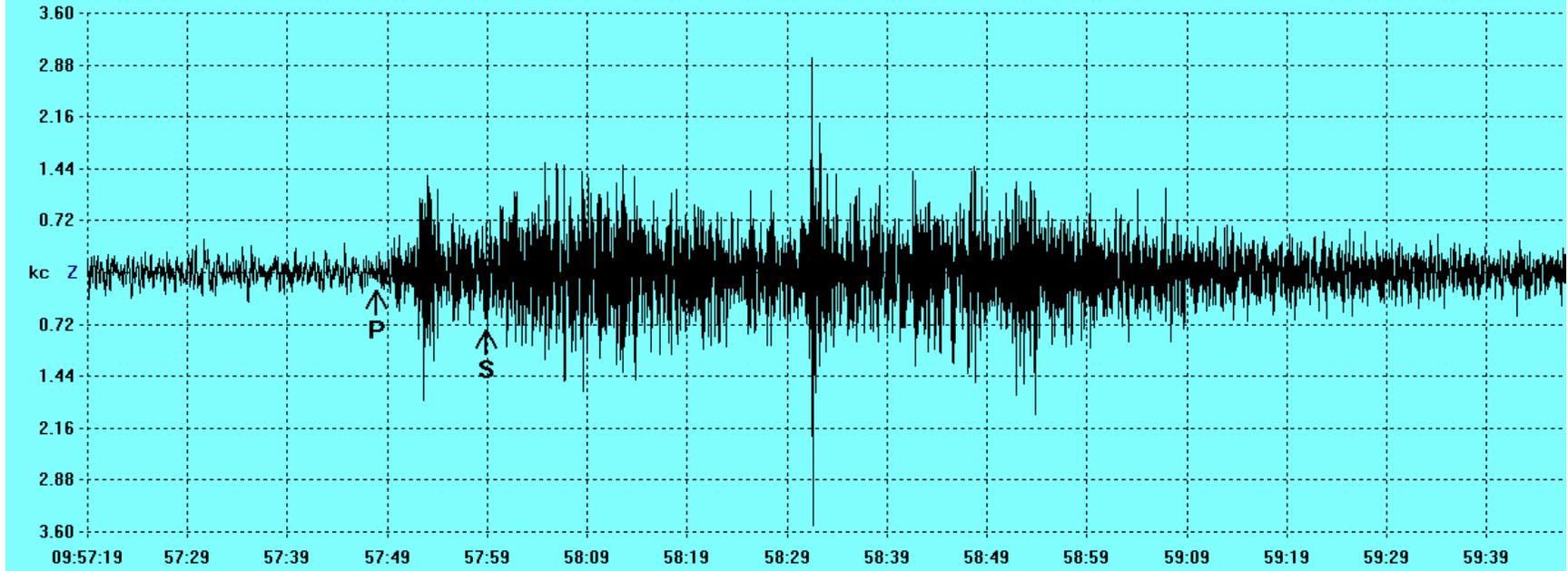
Evento 1

Registro de SANT2:



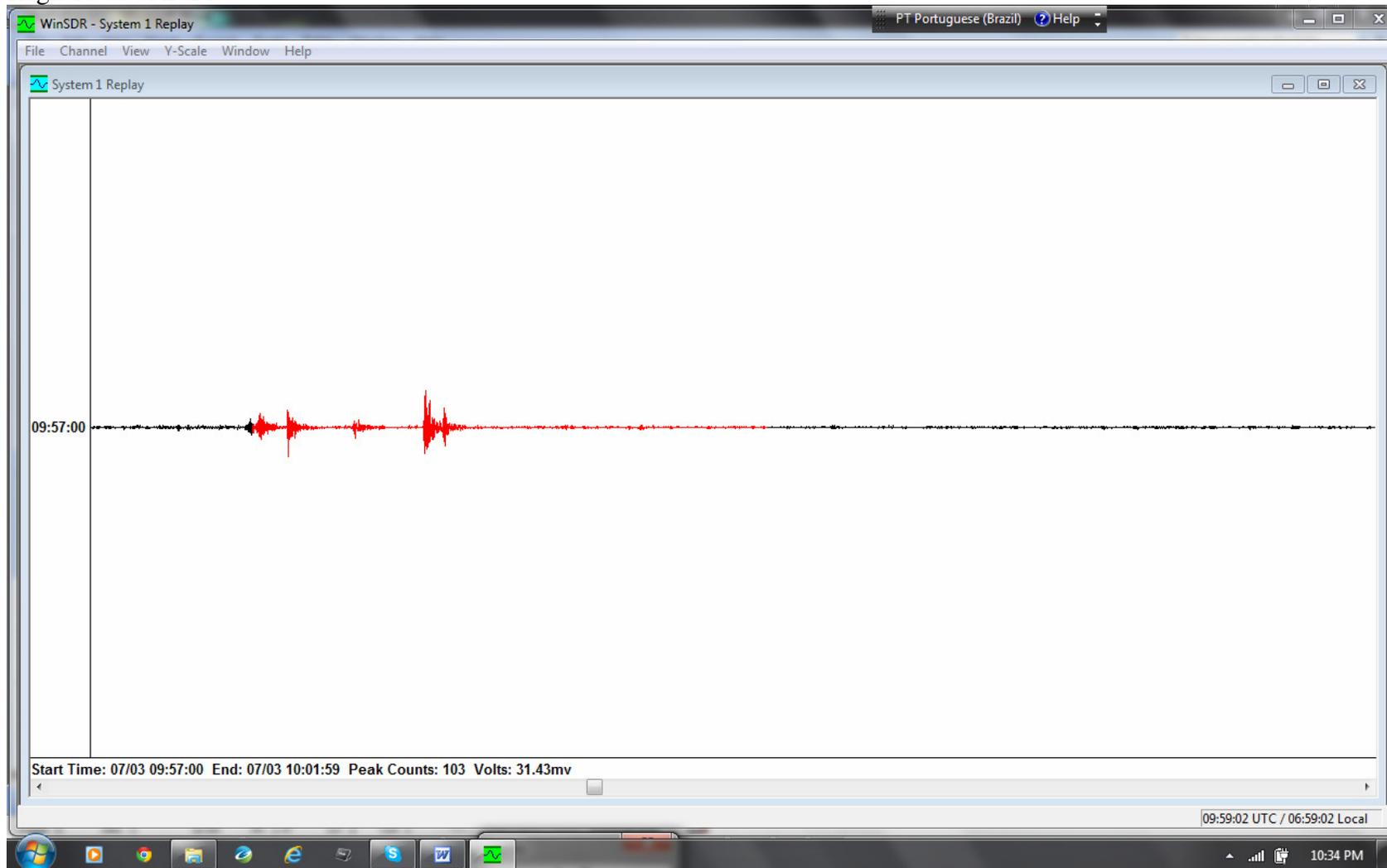
Evento 1

Start: 7/03/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2981/-3506 X: 2.28.0 Y: 3.6kc
Org: 9:57:33.0 P: 9:57:47.9 S: 9:57:58.9 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



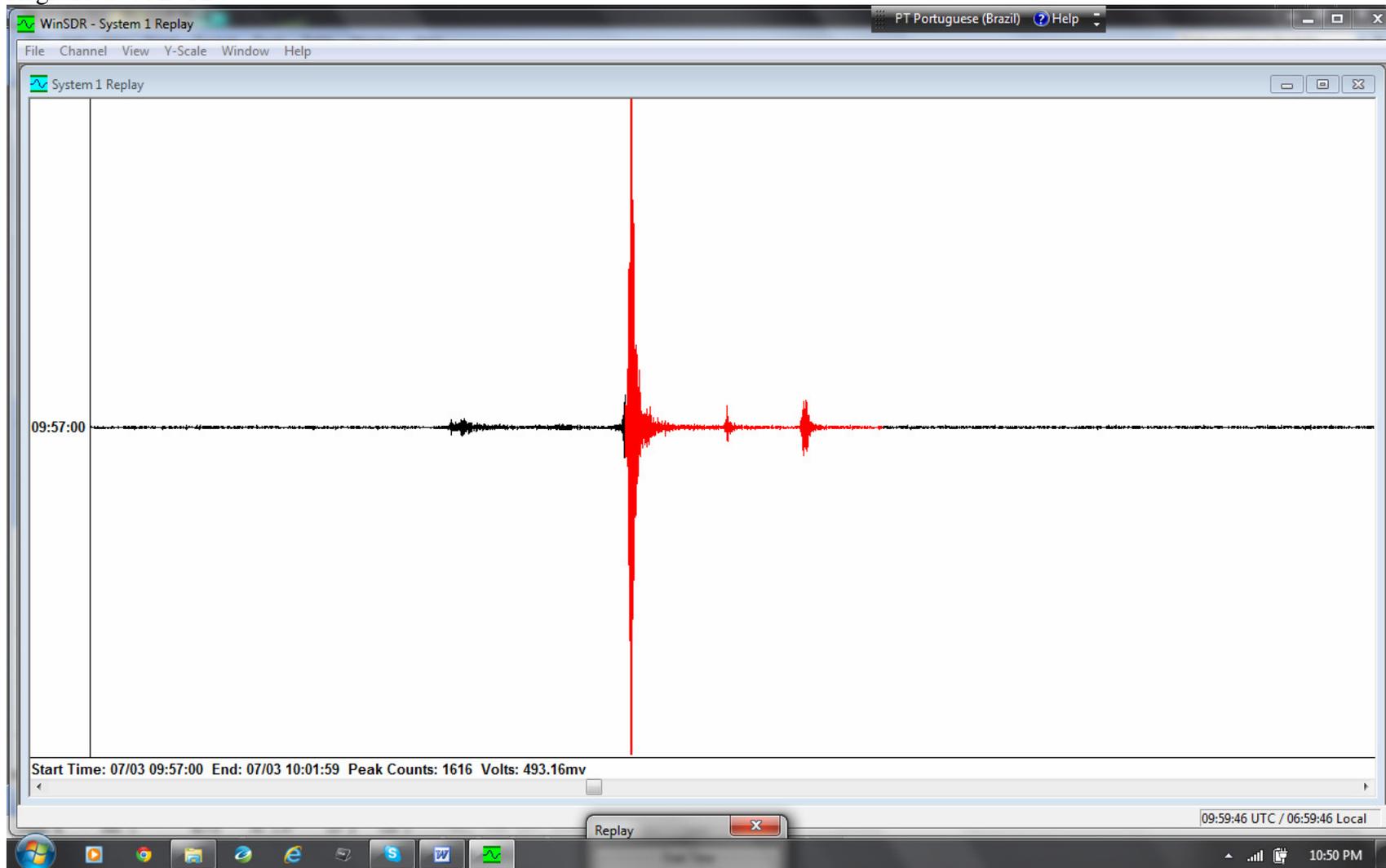
Evento 2

Registro de SANT1:



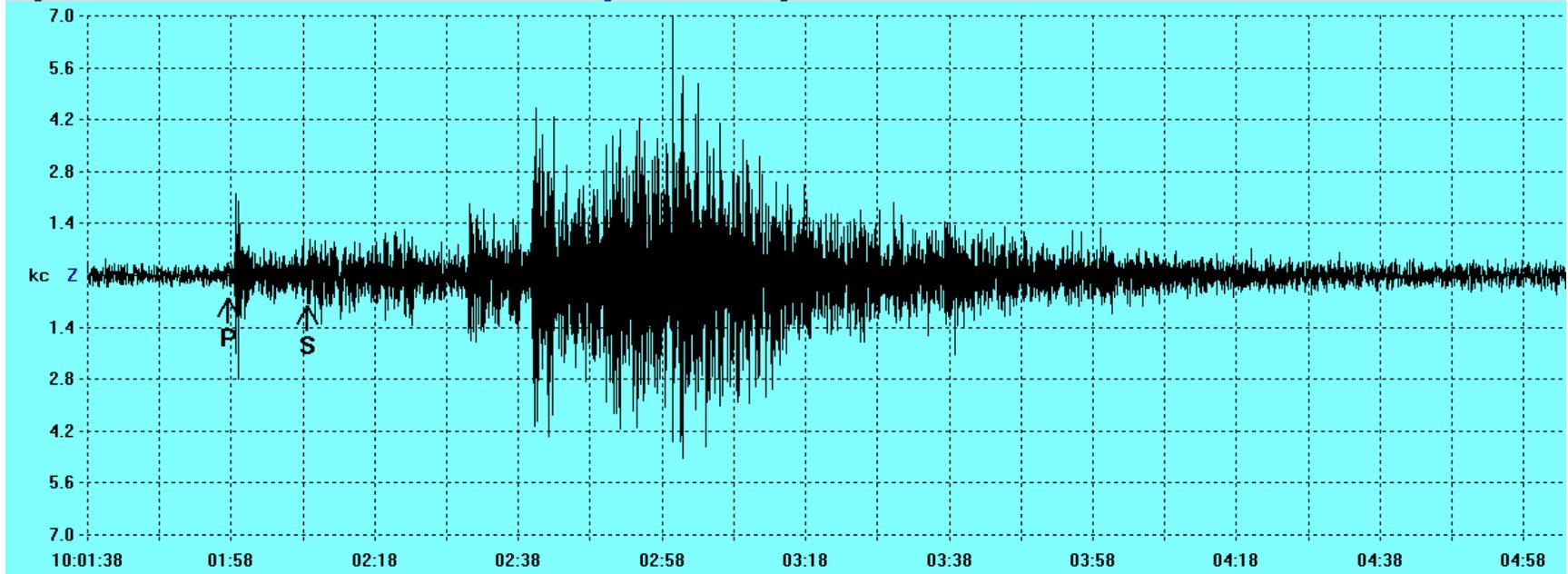
Evento 2

Registro de SANT2:



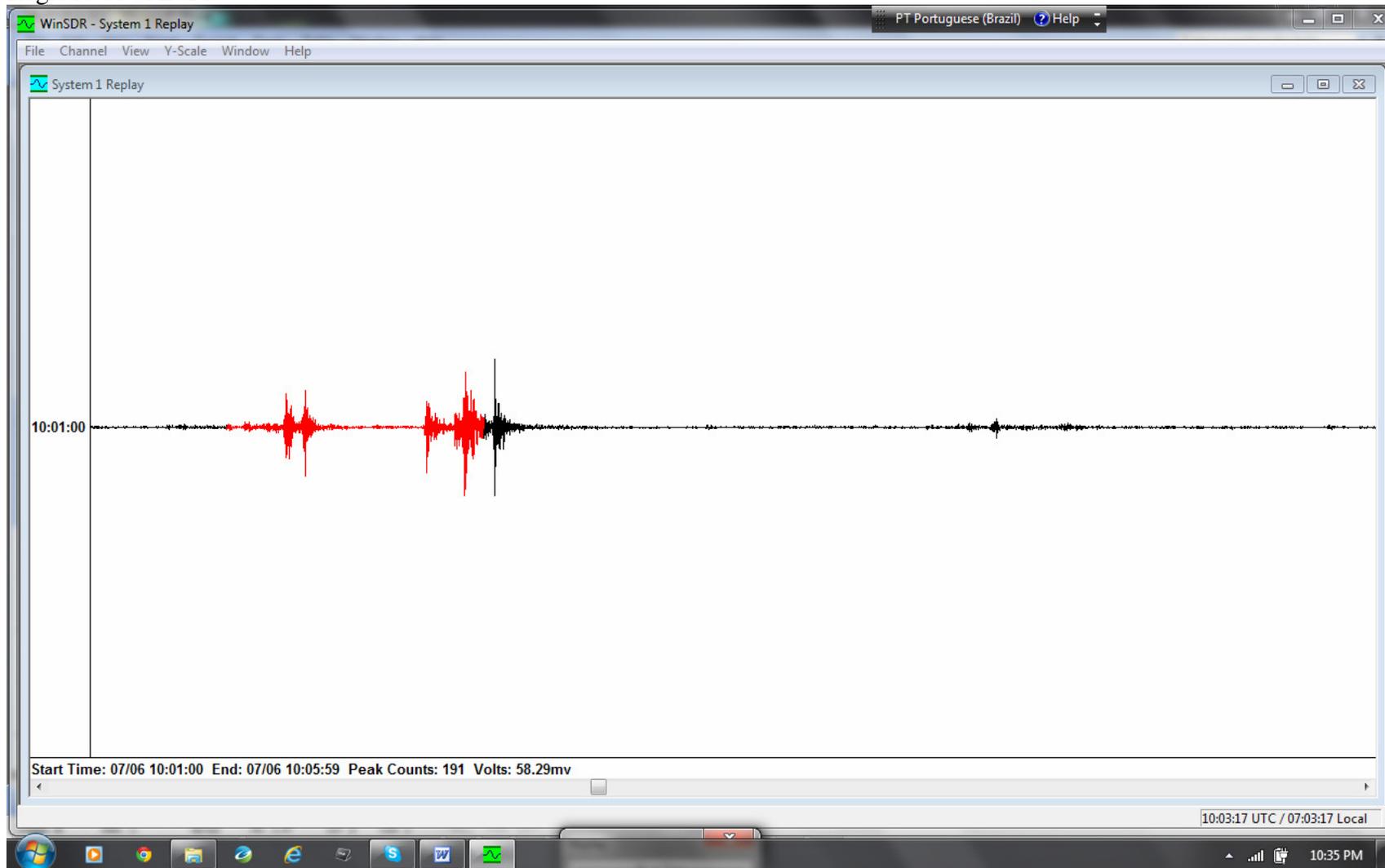
Evento 2

Start: 7/06/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6952/-4945 X: 3:26.0 Y: 7kc
Org: 10:01:42.7 P: 10:01:57.6 S: 10:02:08.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



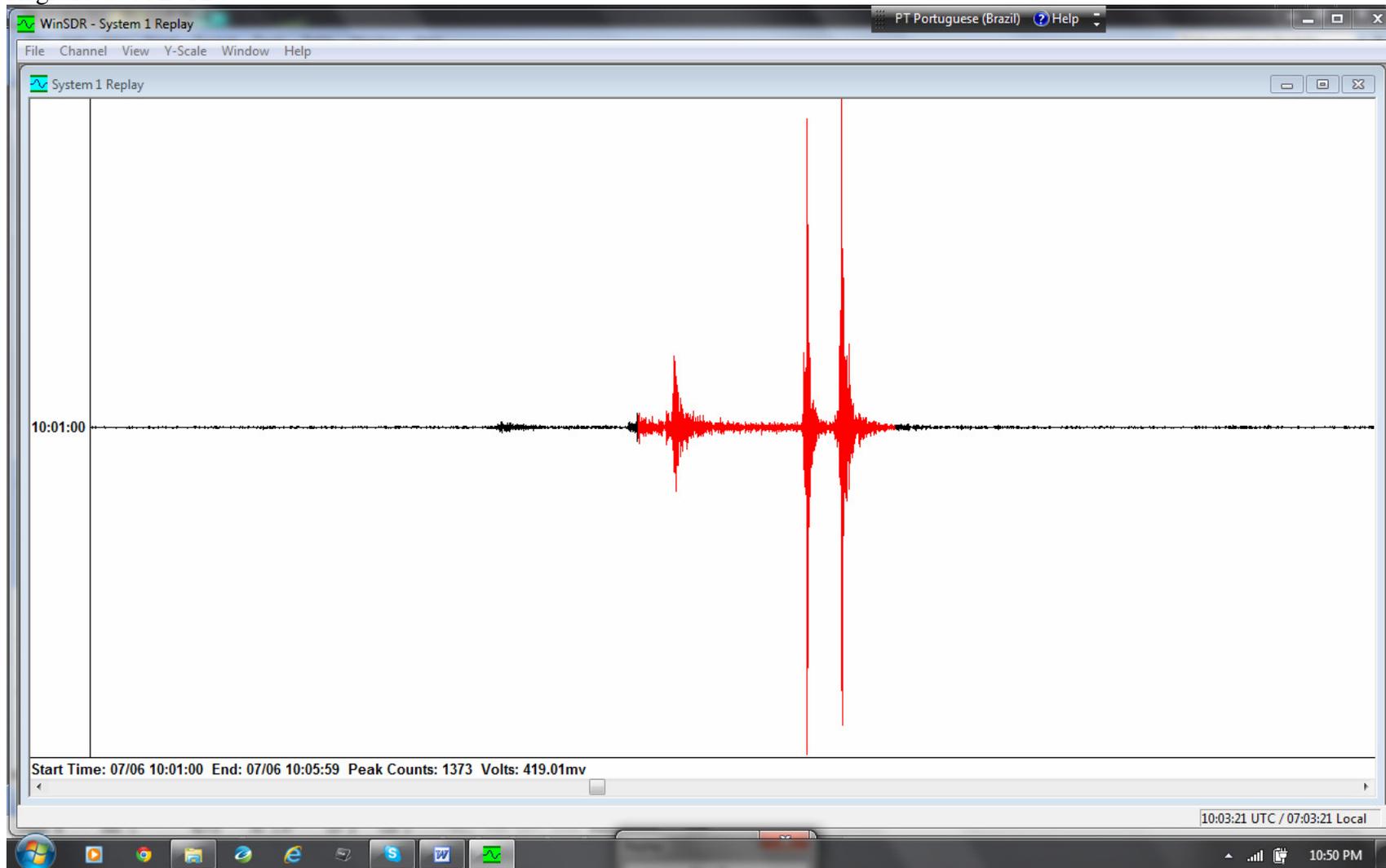
Evento 3

Registro de SANT1:



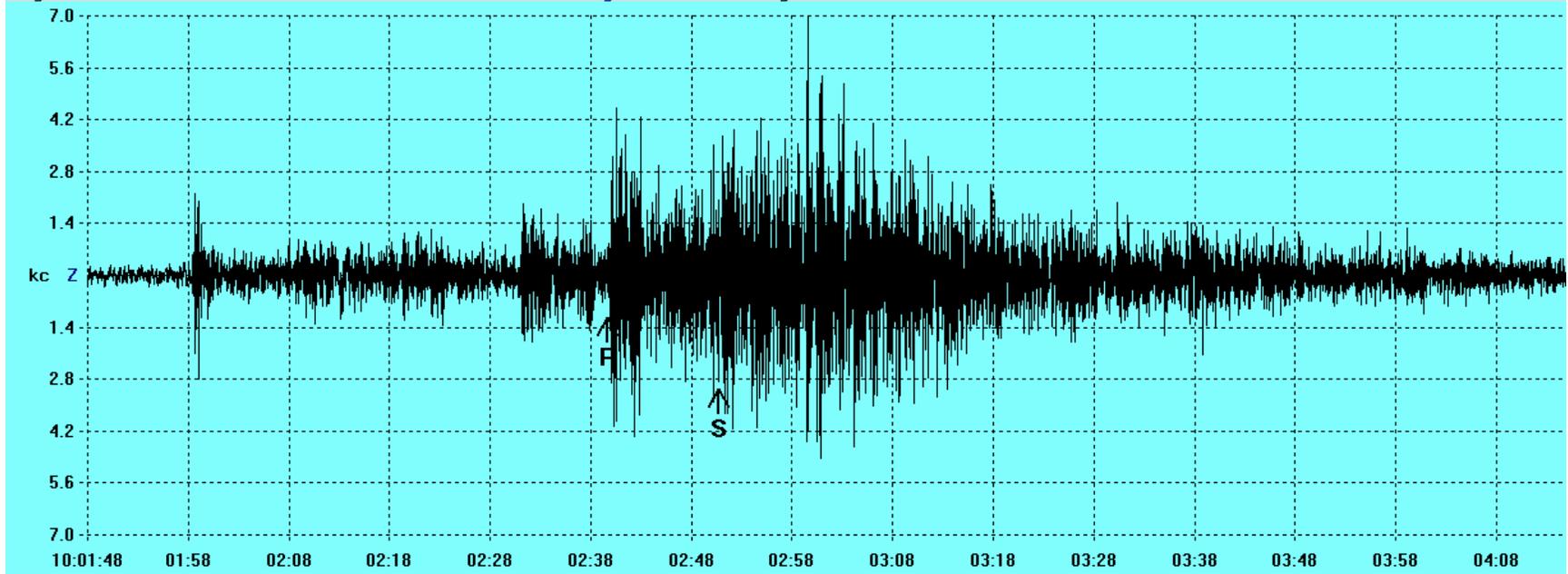
Evento 3

Registro de SANT2:



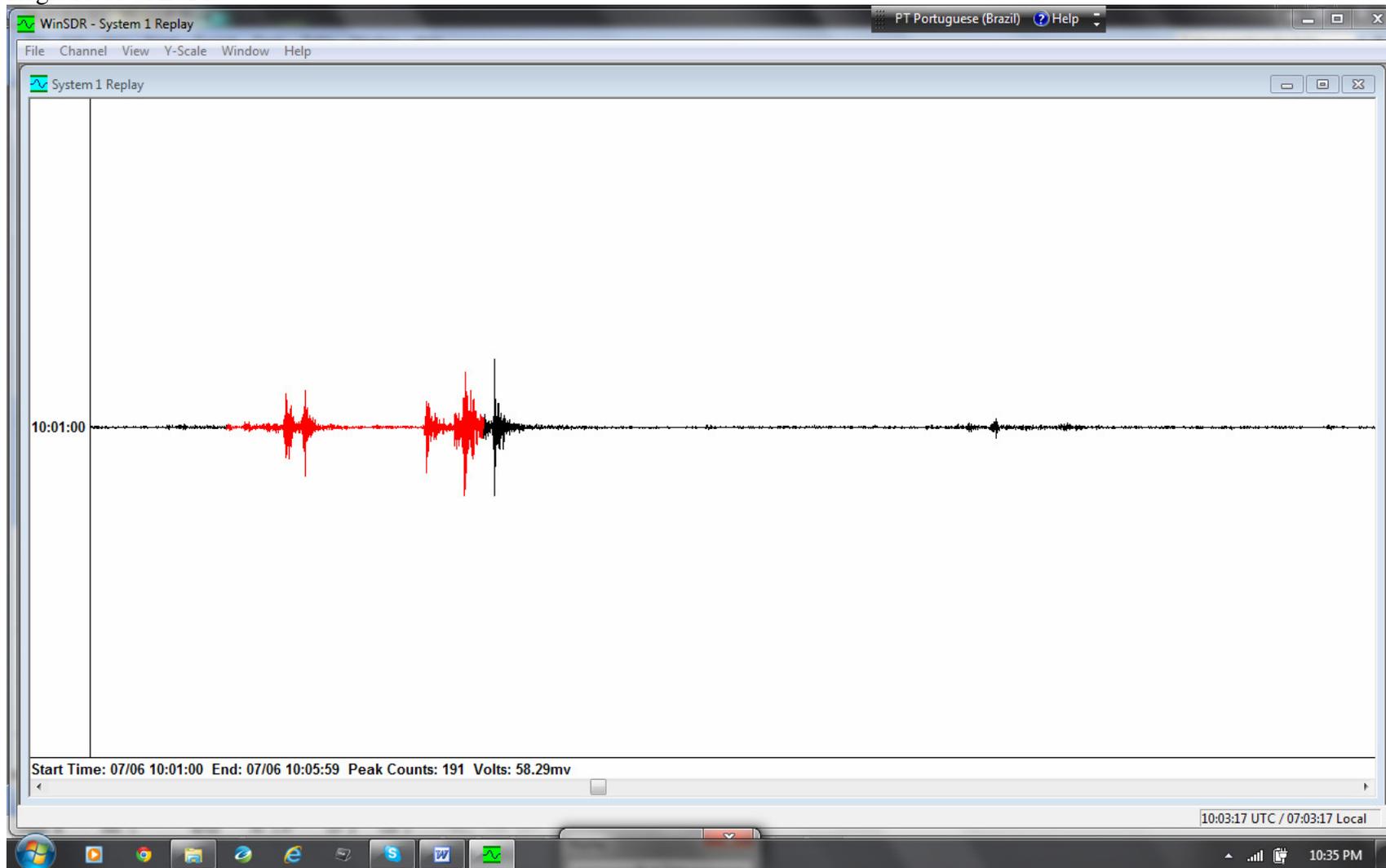
Evento 3

Start: 7/06/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6952/-4945 X: 2.27.0 Y: 7kc
Org: 10:02:24.8 P: 10:02:39.7 S: 10:02:50.7 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



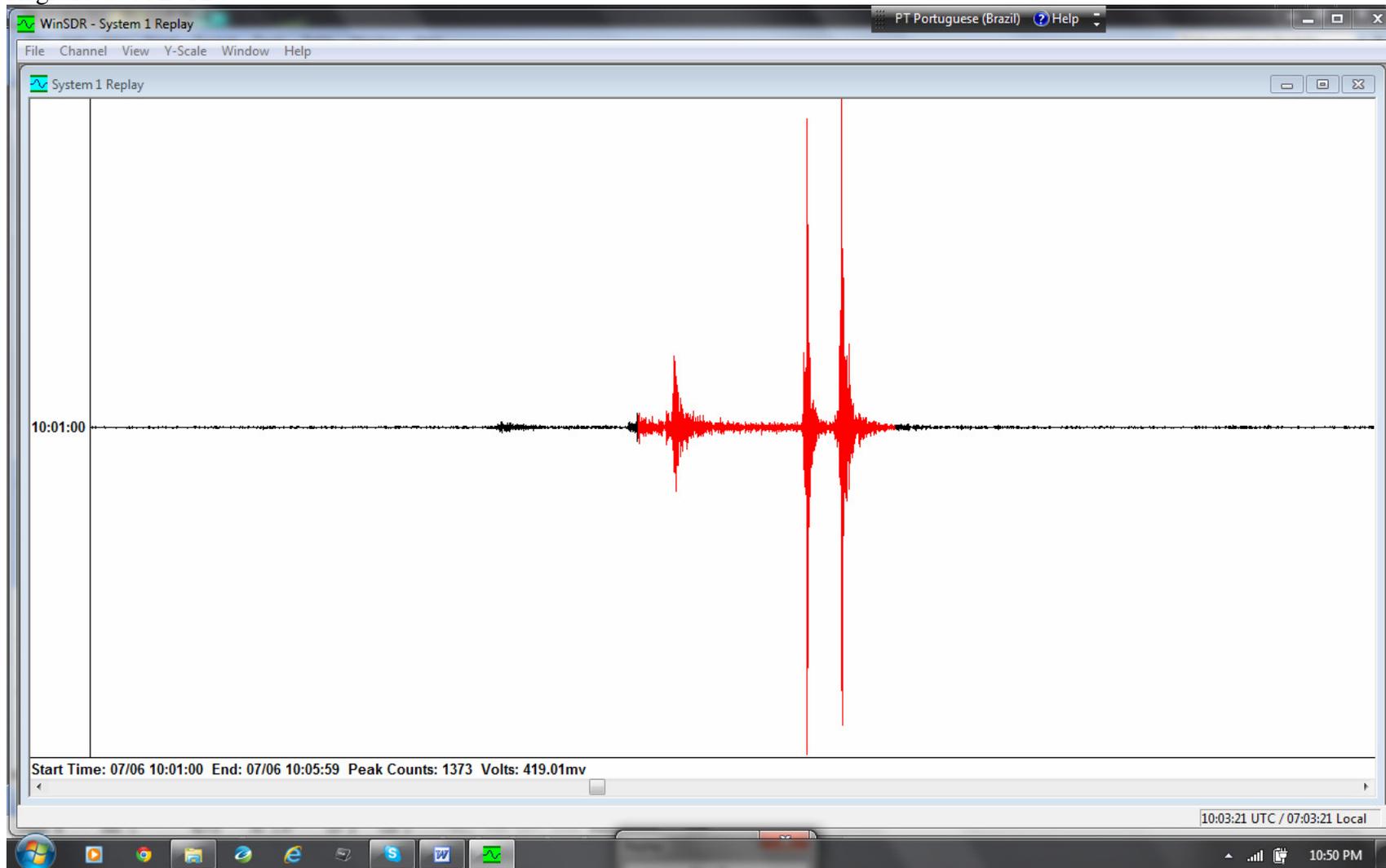
Evento 3

Registro de SANT1:



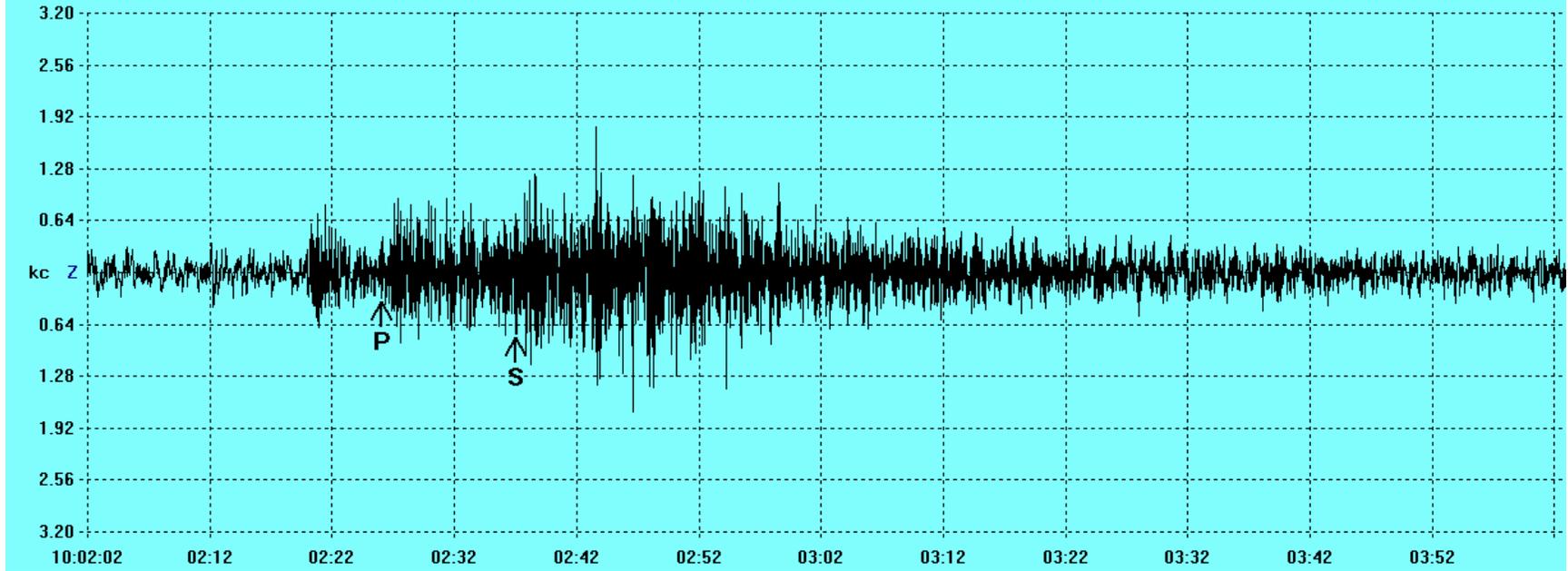
Evento 3

Registro de SANT2:



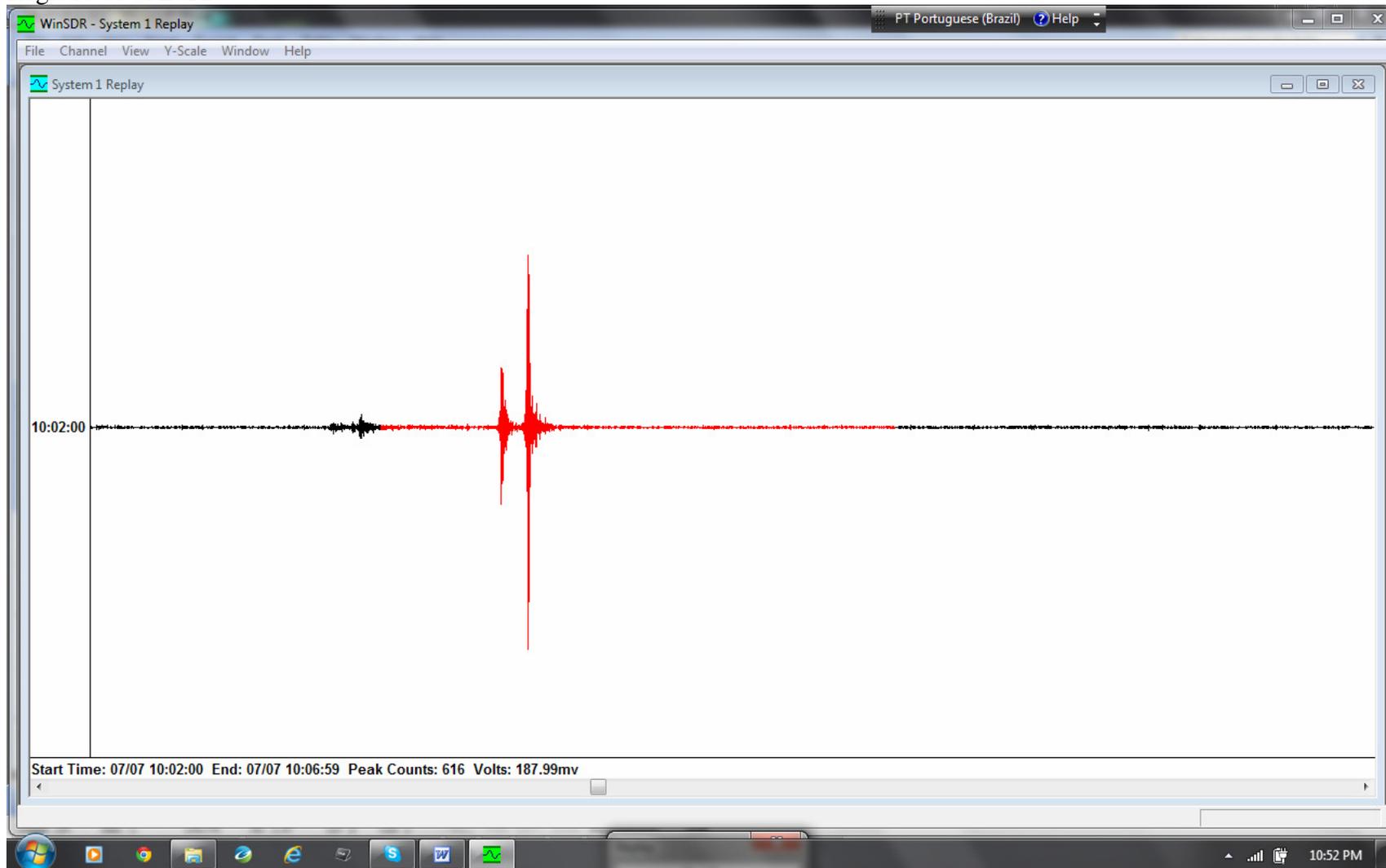
Evento 3

Start: 7/07/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3190/-2493 X: 2.01.0 Y: 3.2kc
Org: 10:02:11.1 P: 10:02:26.0 S: 10:02:37.0 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



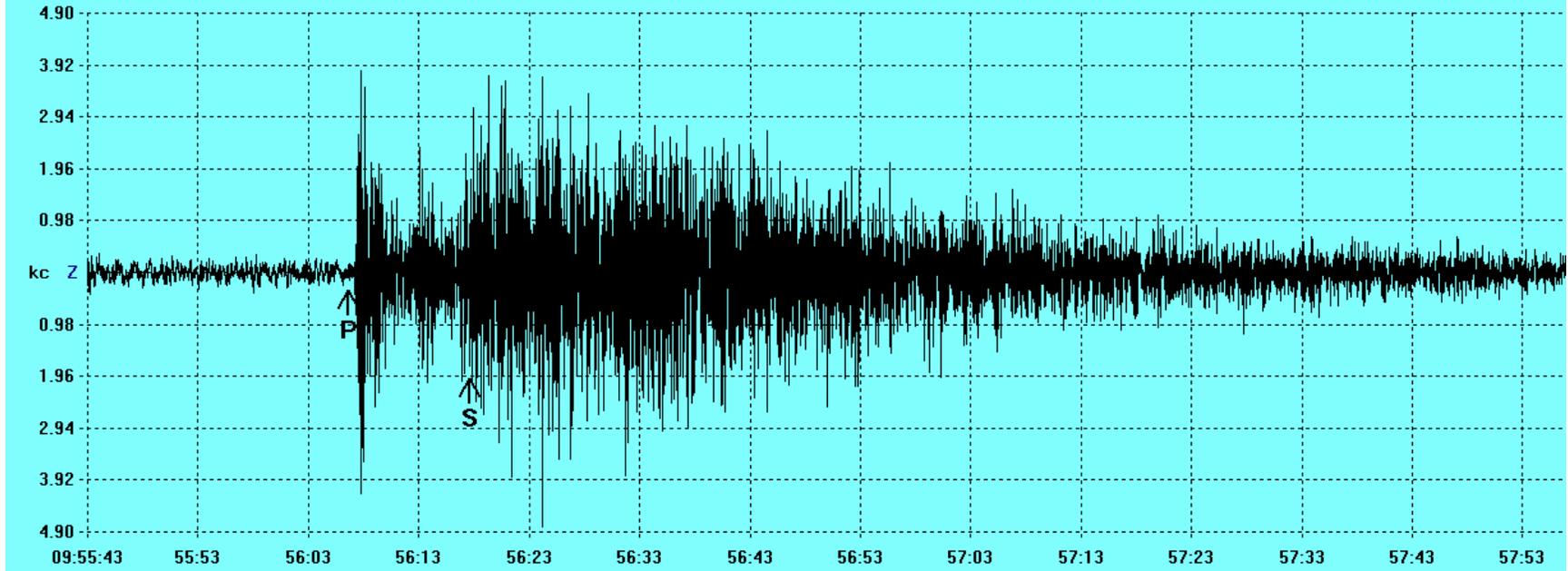
Evento 4

Registro de SANT2:



Evento 4

Start: 7/11/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3807/-4805 X: 2.14.0 Y: 4.9kc
Org: 9:55:51.7 P: 9:56:06.6 S: 9:56:17.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 5

Registro de SANT1:



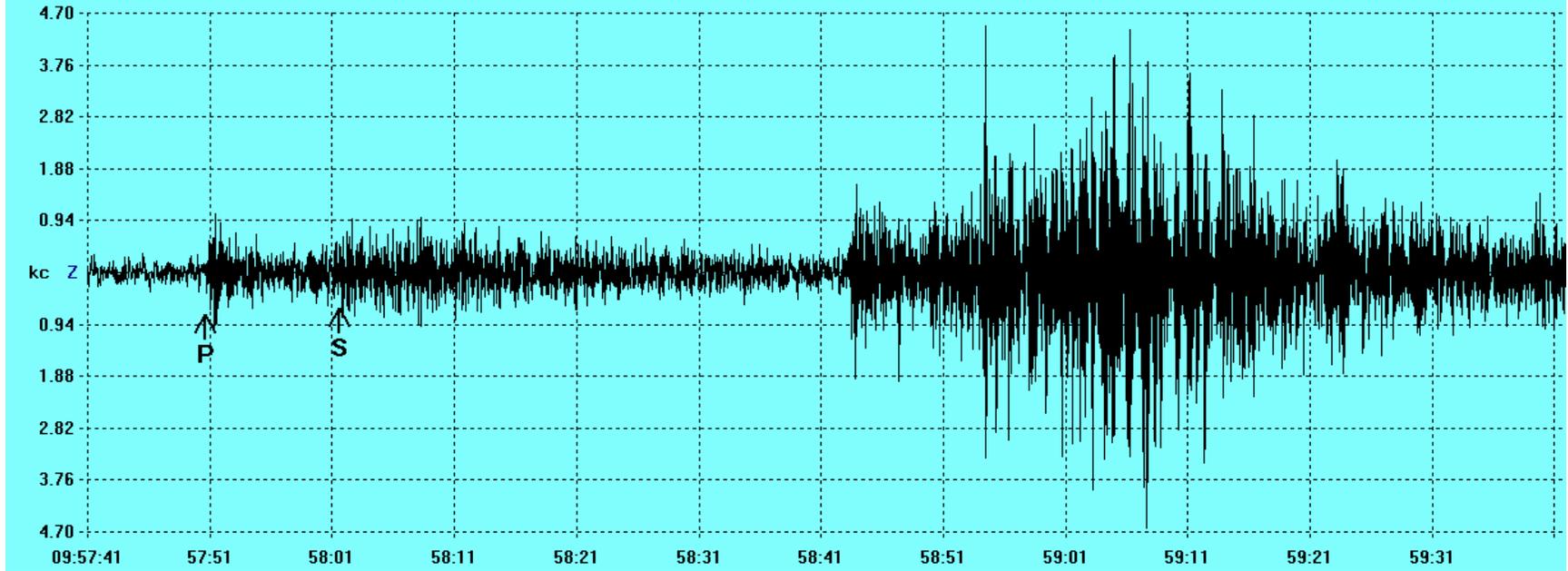
Evento 5

Registro de SANT2:



Evento 5

Start: 7/12/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 4468/-4630 X: 2.01.0 Y: 4.7kc
Org: 9:57:35.7 P: 9:57:50.6 S: 9:58:01.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



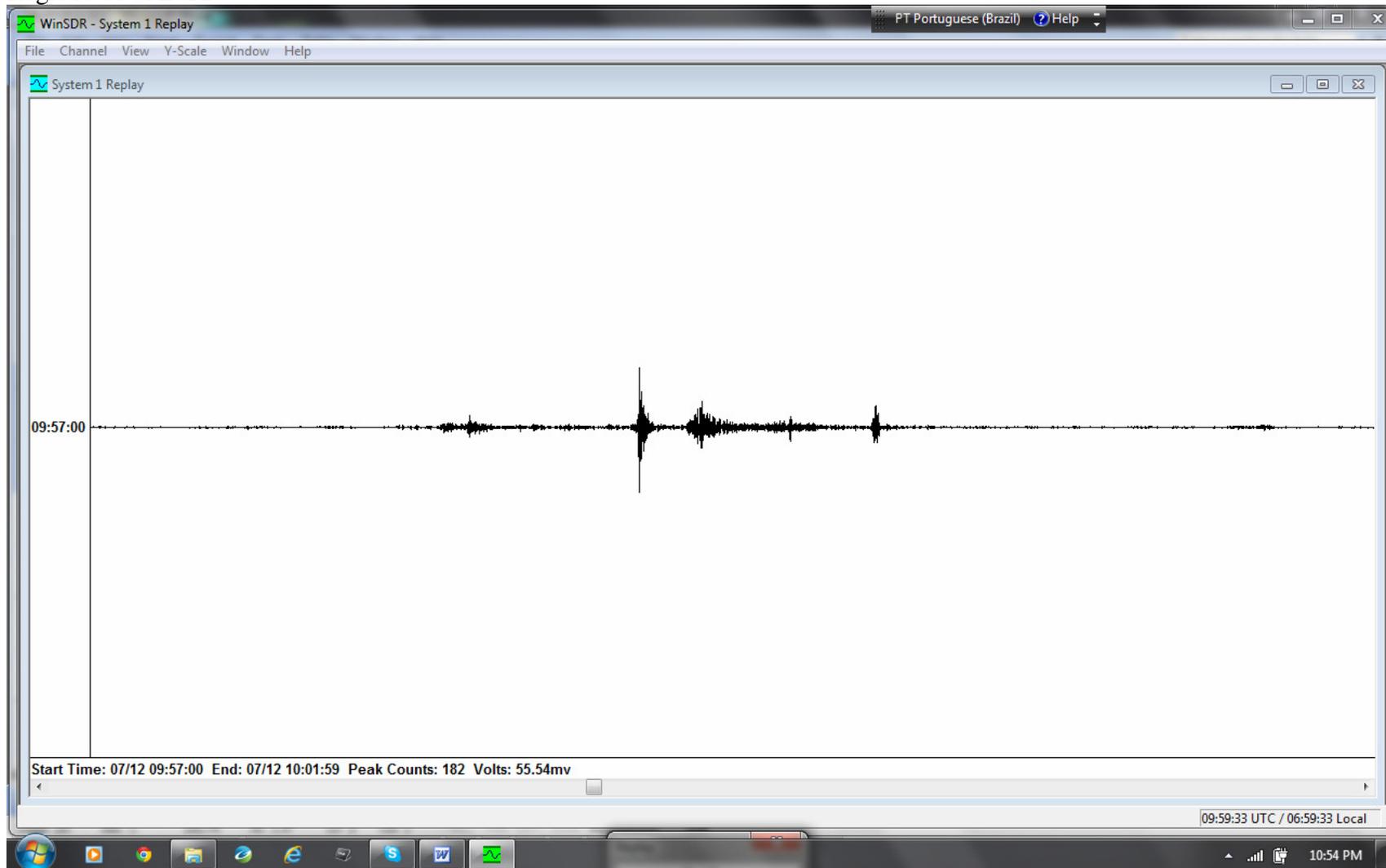
Evento 6

Registro de SANT1:



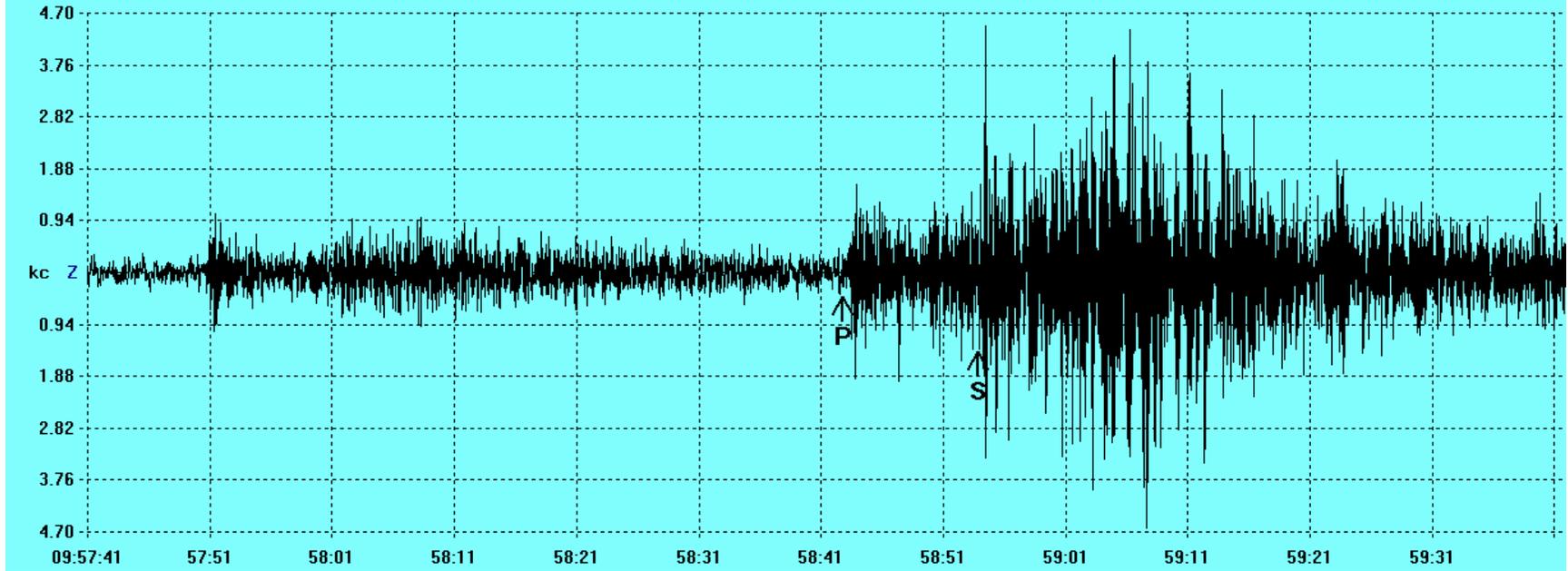
Evento 6

Registro de SANT2:



Evento 6

Start: 7/12/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 4468/-4630 X: 2.01.0 Y: 4.7kc
Org: 9:58:27.9 P: 9:58:42.8 S: 9:58:53.8 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



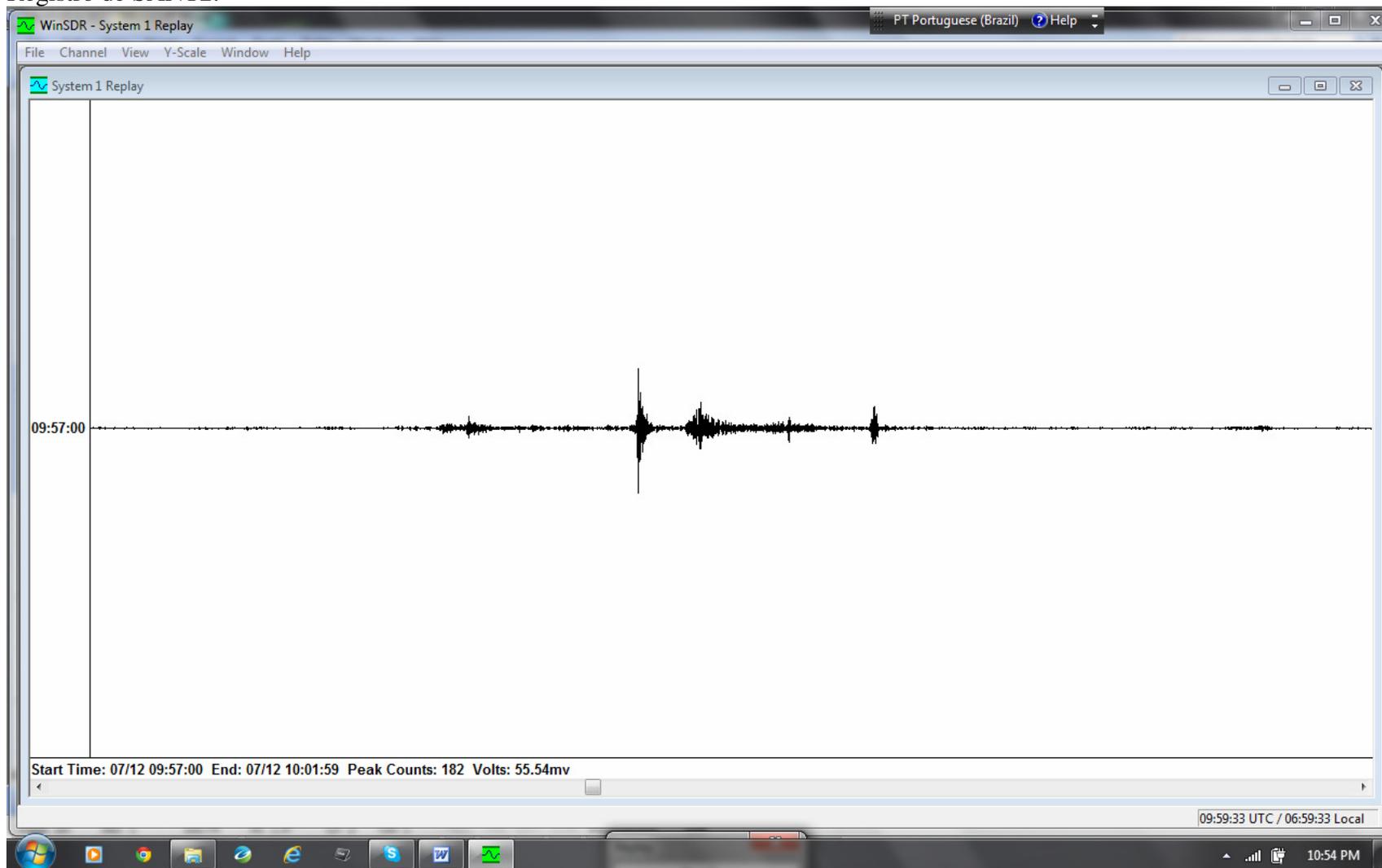
Evento 6

Registro de SANT1:



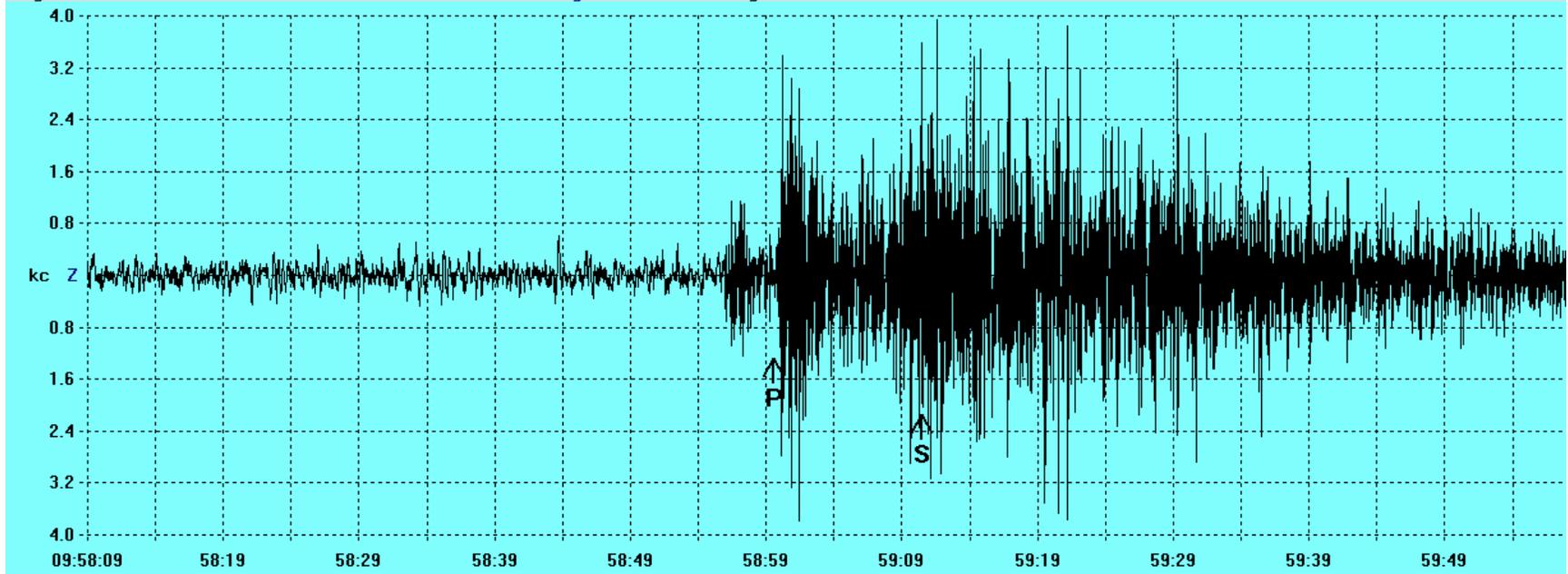
Evento 6

Registro de SANT2:



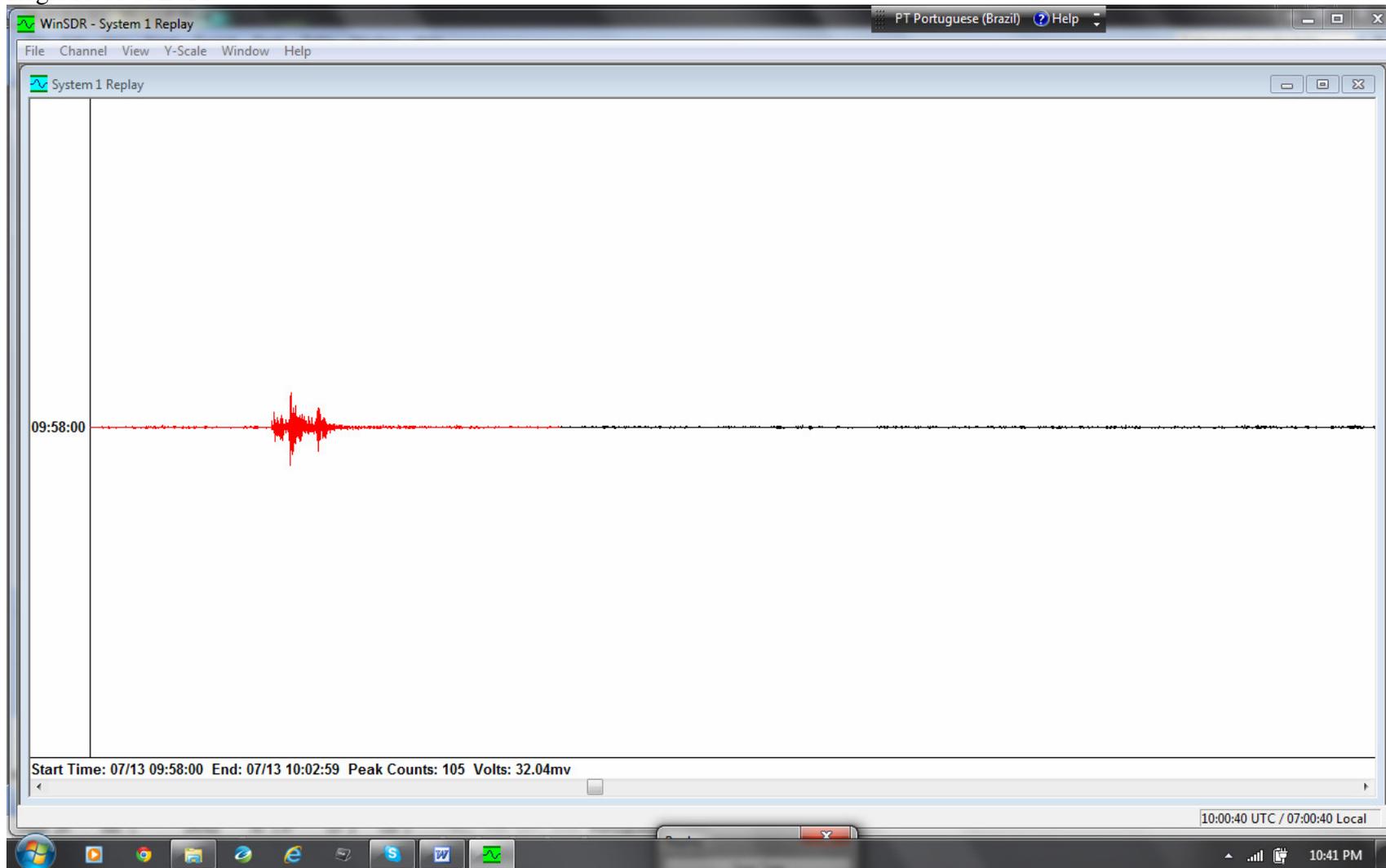
Evento 6

Start: 7/13/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3939/-3791 X: 1:49.0 Y: 4kc
Org: 9:58:44.6 P: 9:58:59.5 S: 9:59:10.5 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



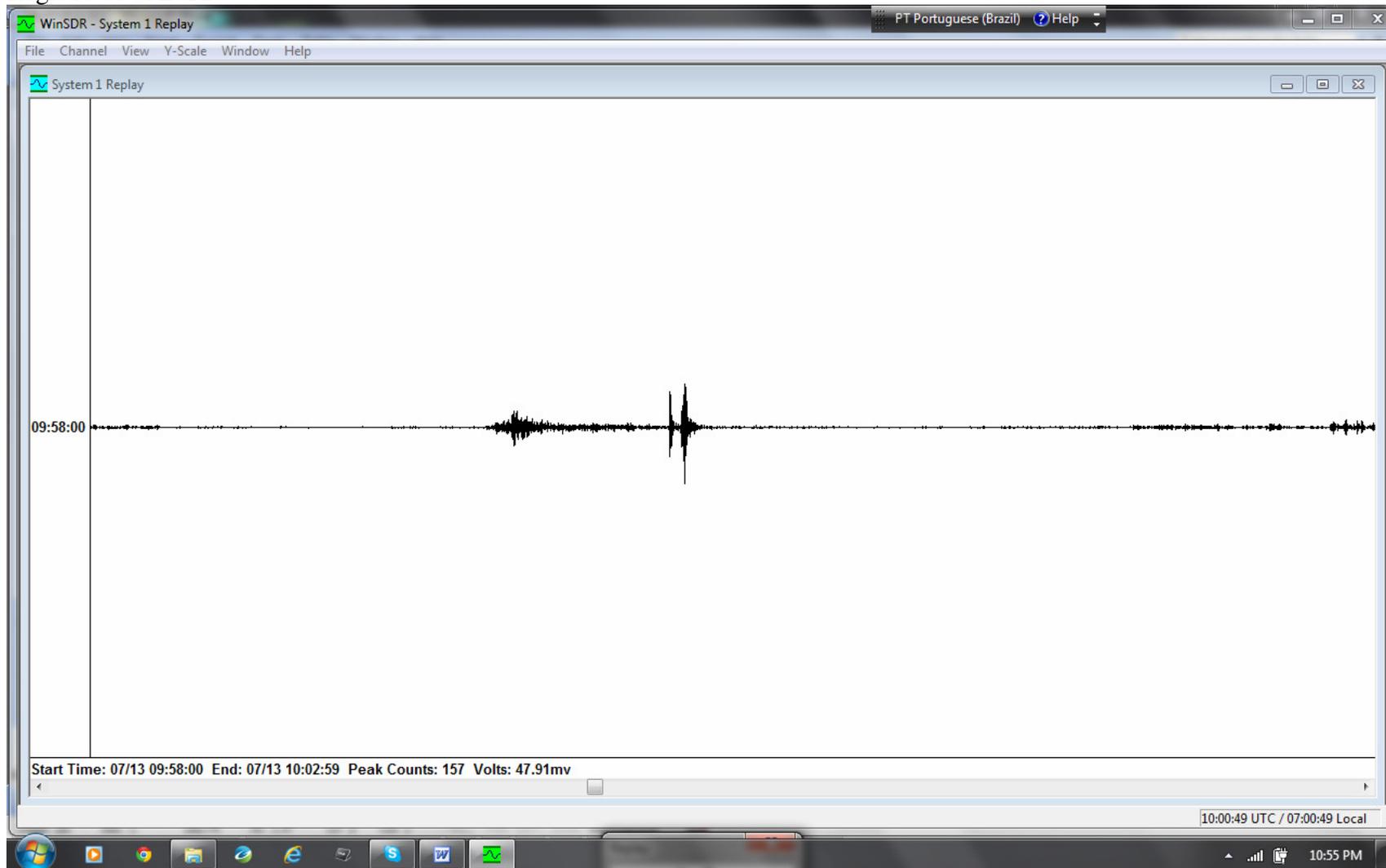
Evento 7

Registro de SANT1:



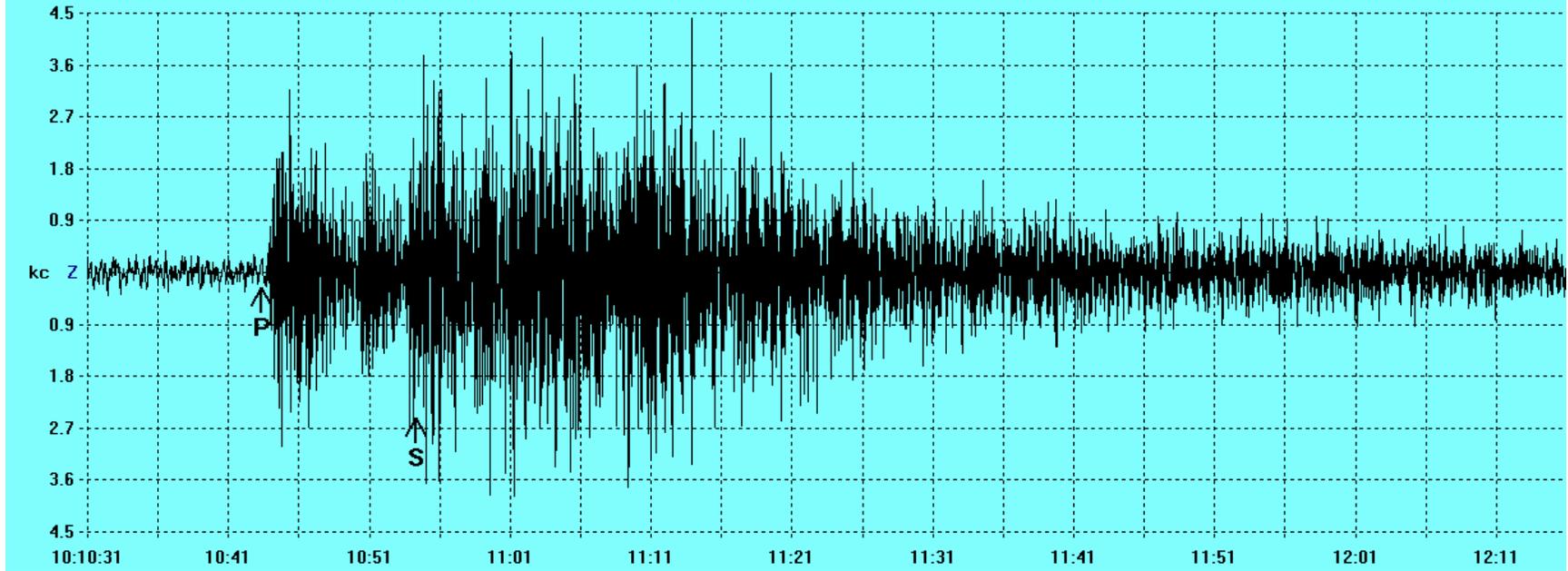
Evento 7

Registro de SANT2:



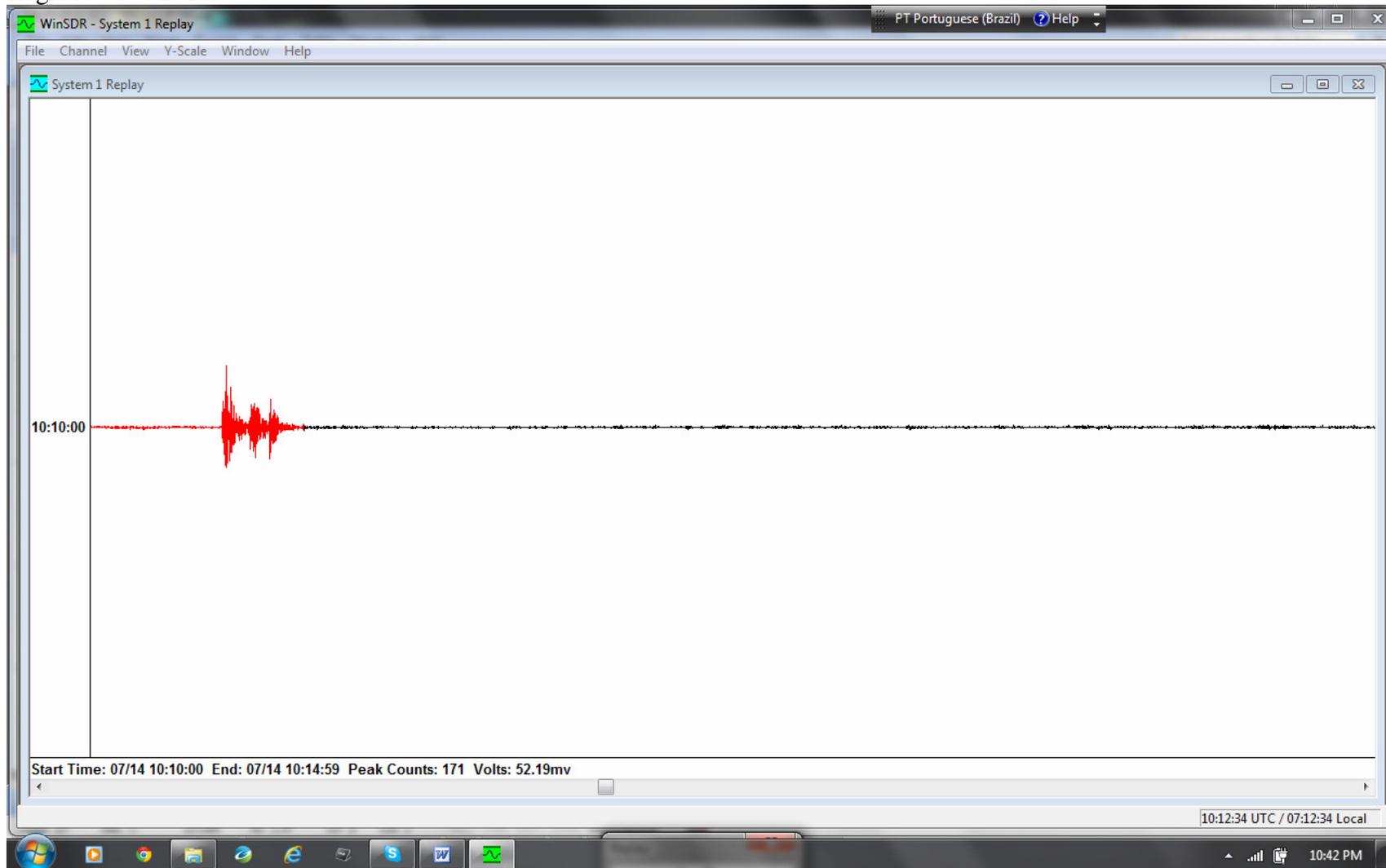
Evento 7

Start: 7/14/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 4421/-3872 X: 1:45.0 Y: 4.5kc
Org: 10:10:28.4 P: 10:10:43.3 S: 10:10:54.3 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



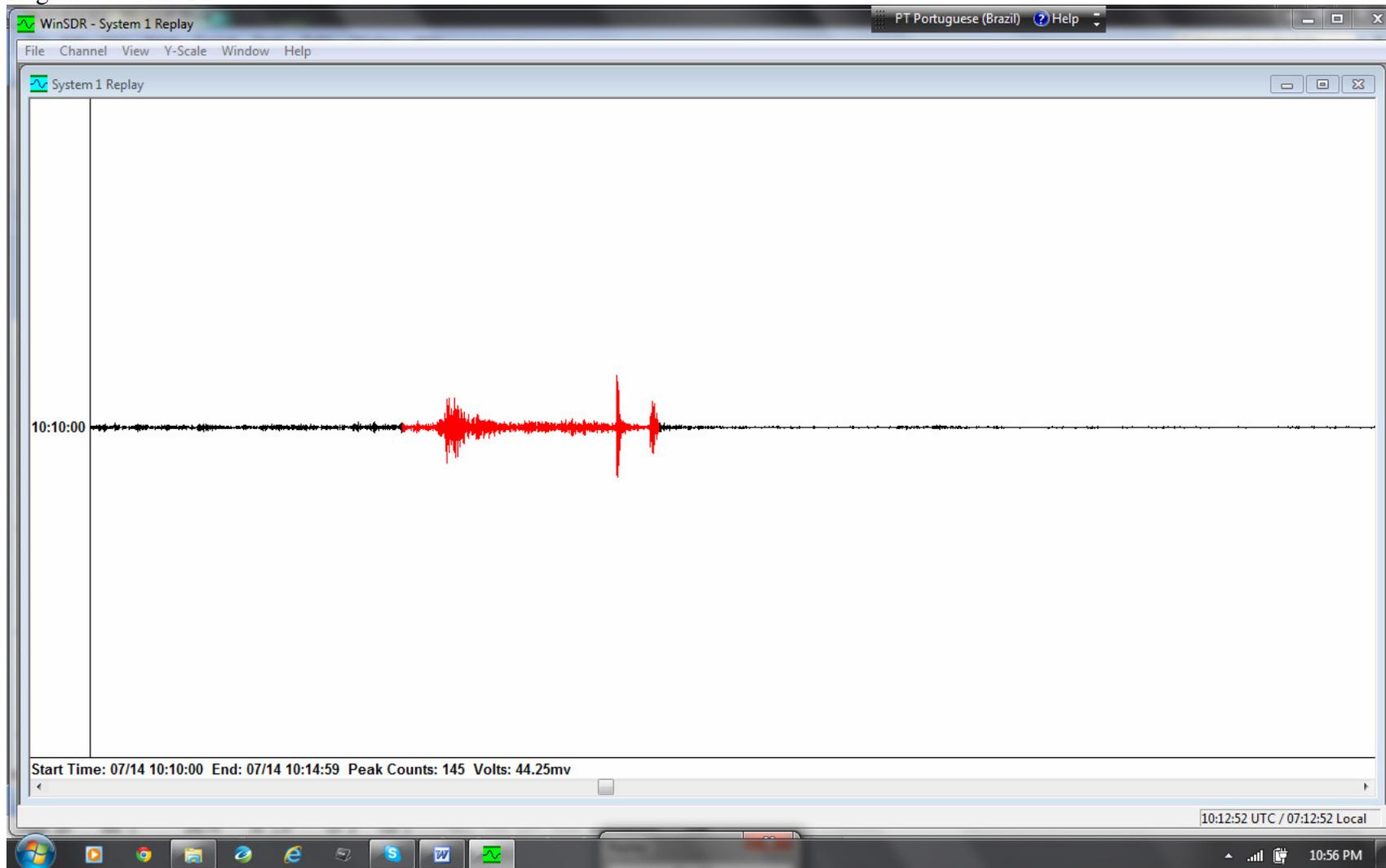
Evento 8

Registro de SANT1:



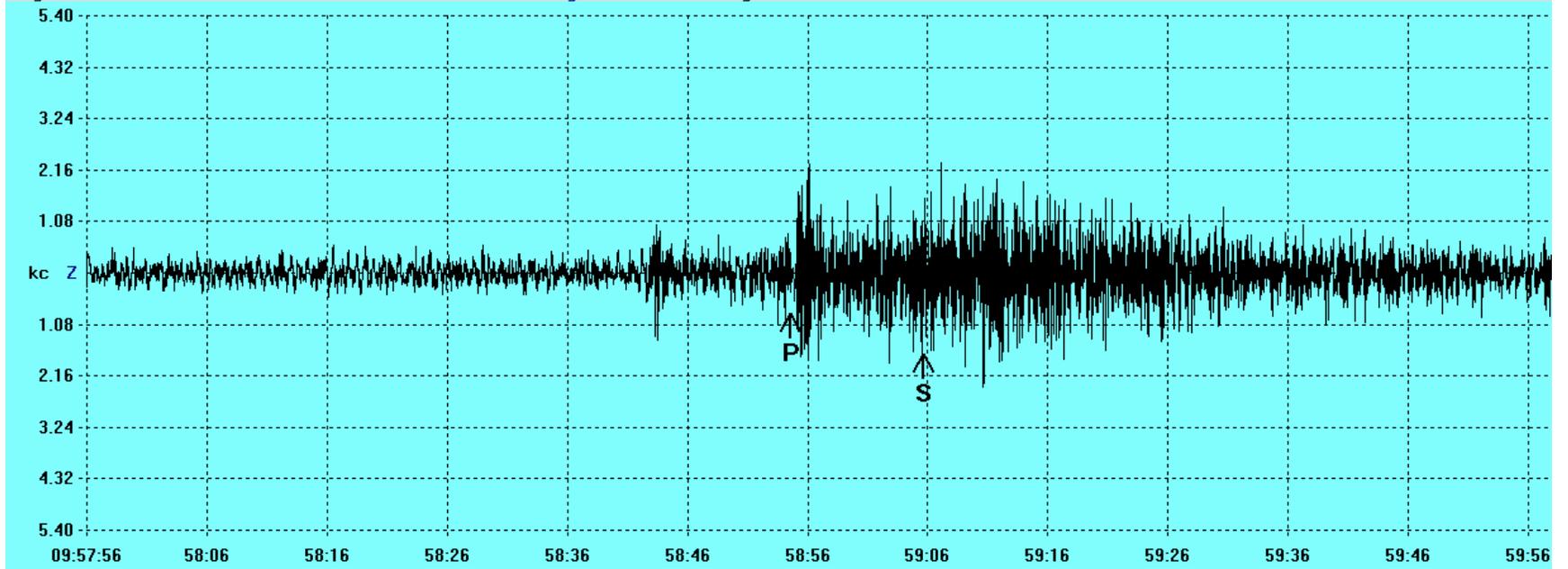
Evento 8

Registro de SANT2:



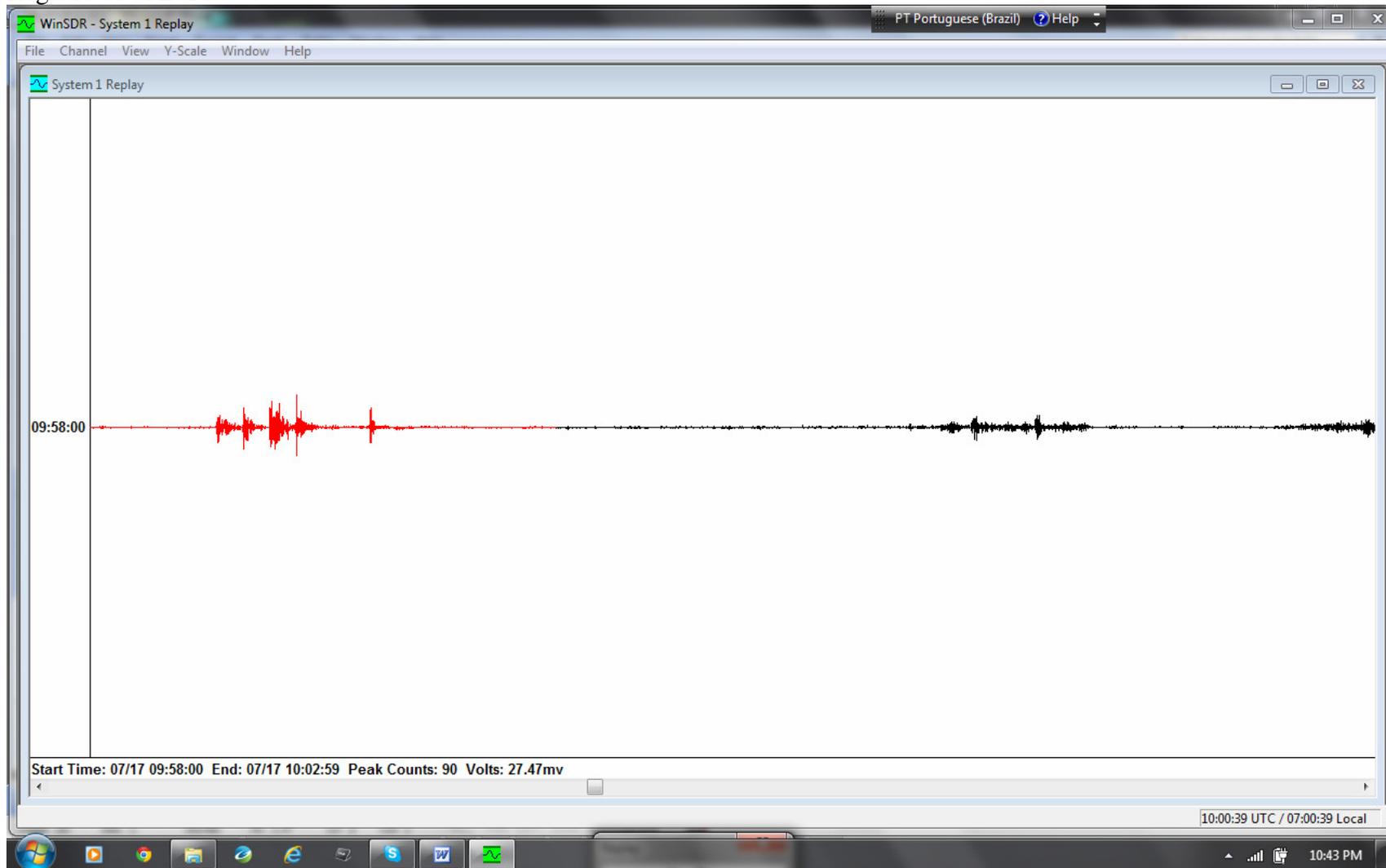
Evento 8

Start: 7/17/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 5369/-2539 X: 2.02.0 Y: 5.4kc
Org: 9:58:39.7 P: 9:58:54.6 S: 9:59:05.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



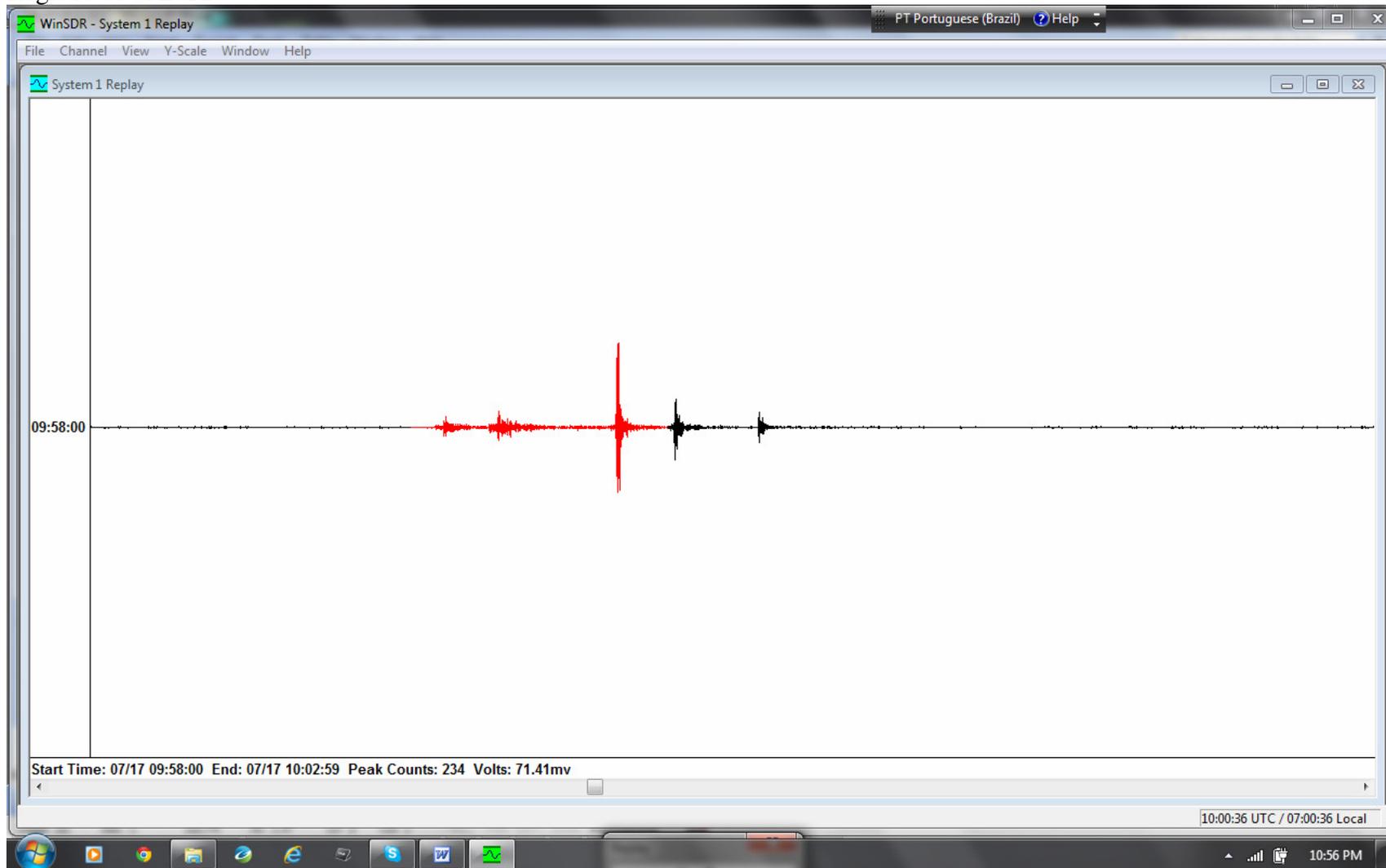
Evento 9

Registro de SANT1:



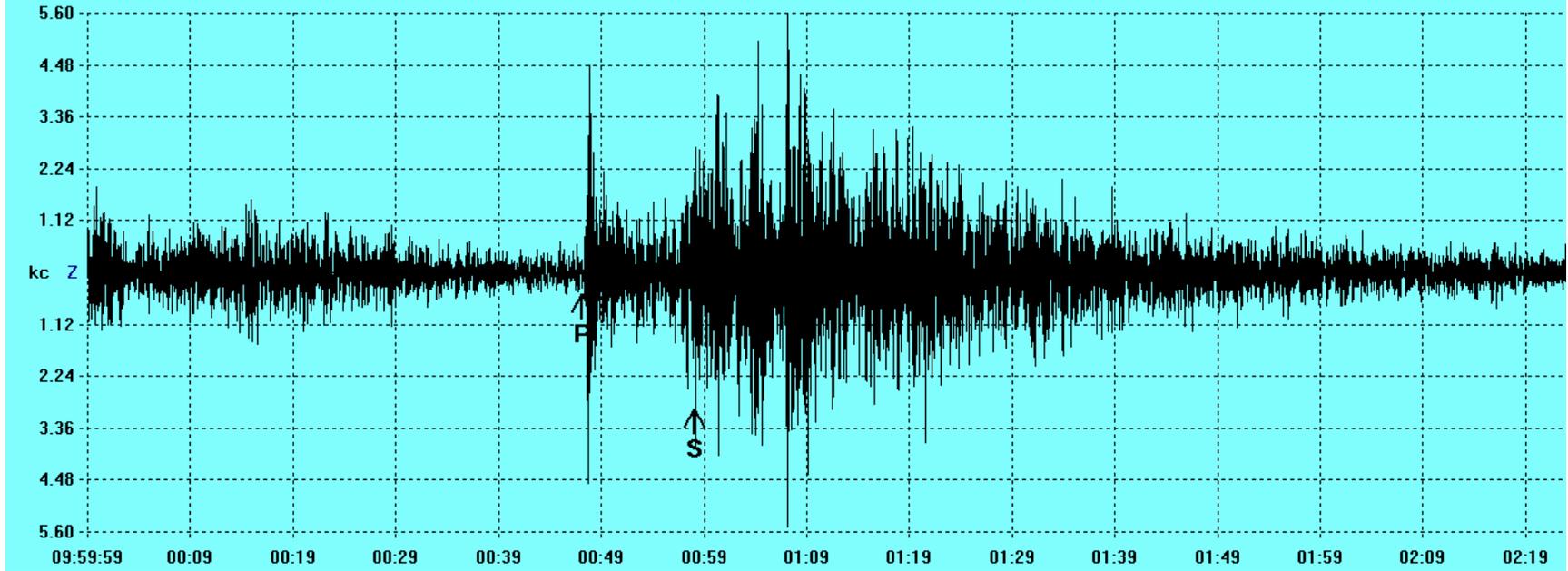
Evento 9

Registro de SANT2:



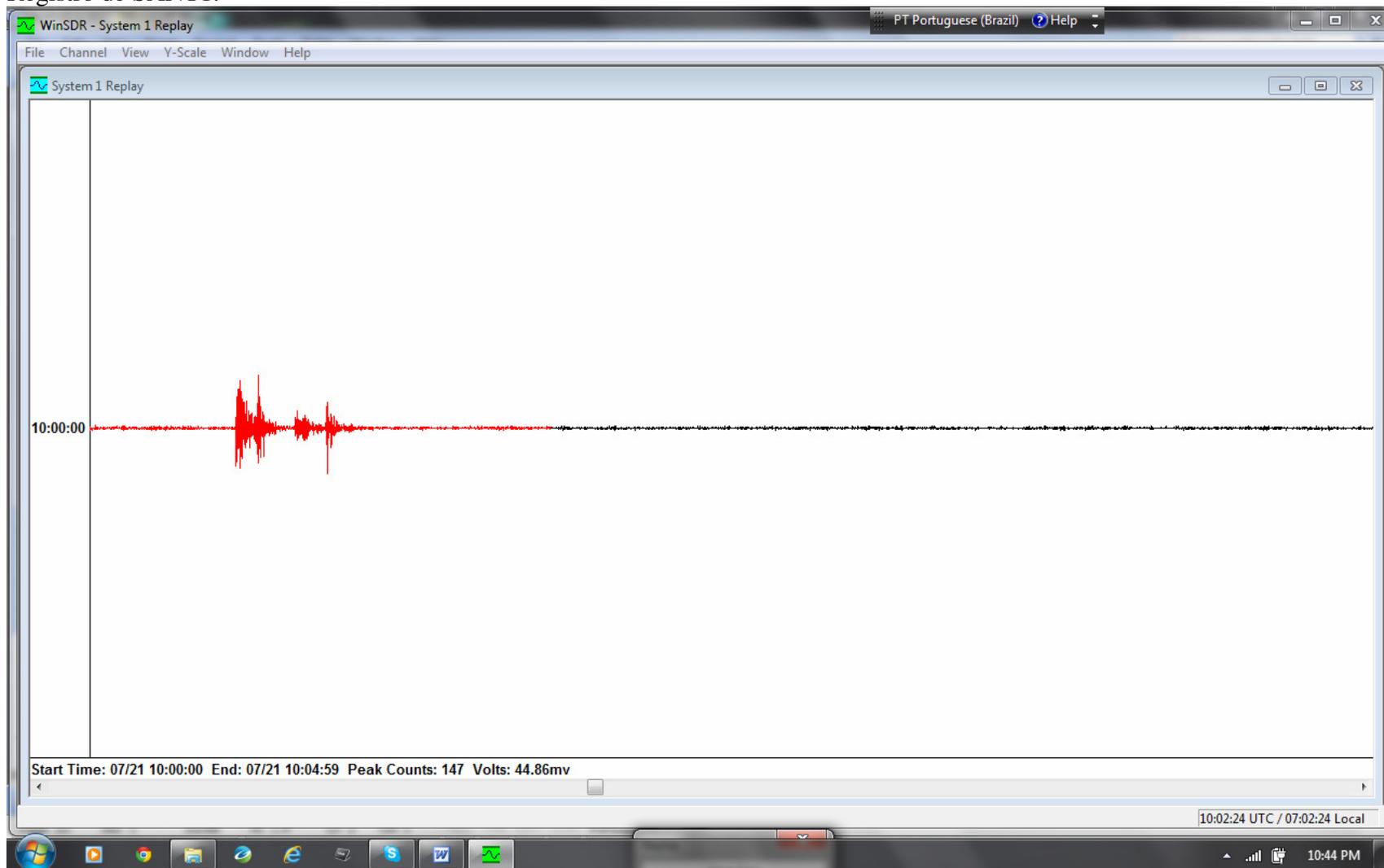
Evento 9

Start: 7/21/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 5571/-5503 X: 2.24.0 Y: 5.6kc
Org: 10:00:32.2 P: 10:00:47.1 S: 10:00:58.1 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



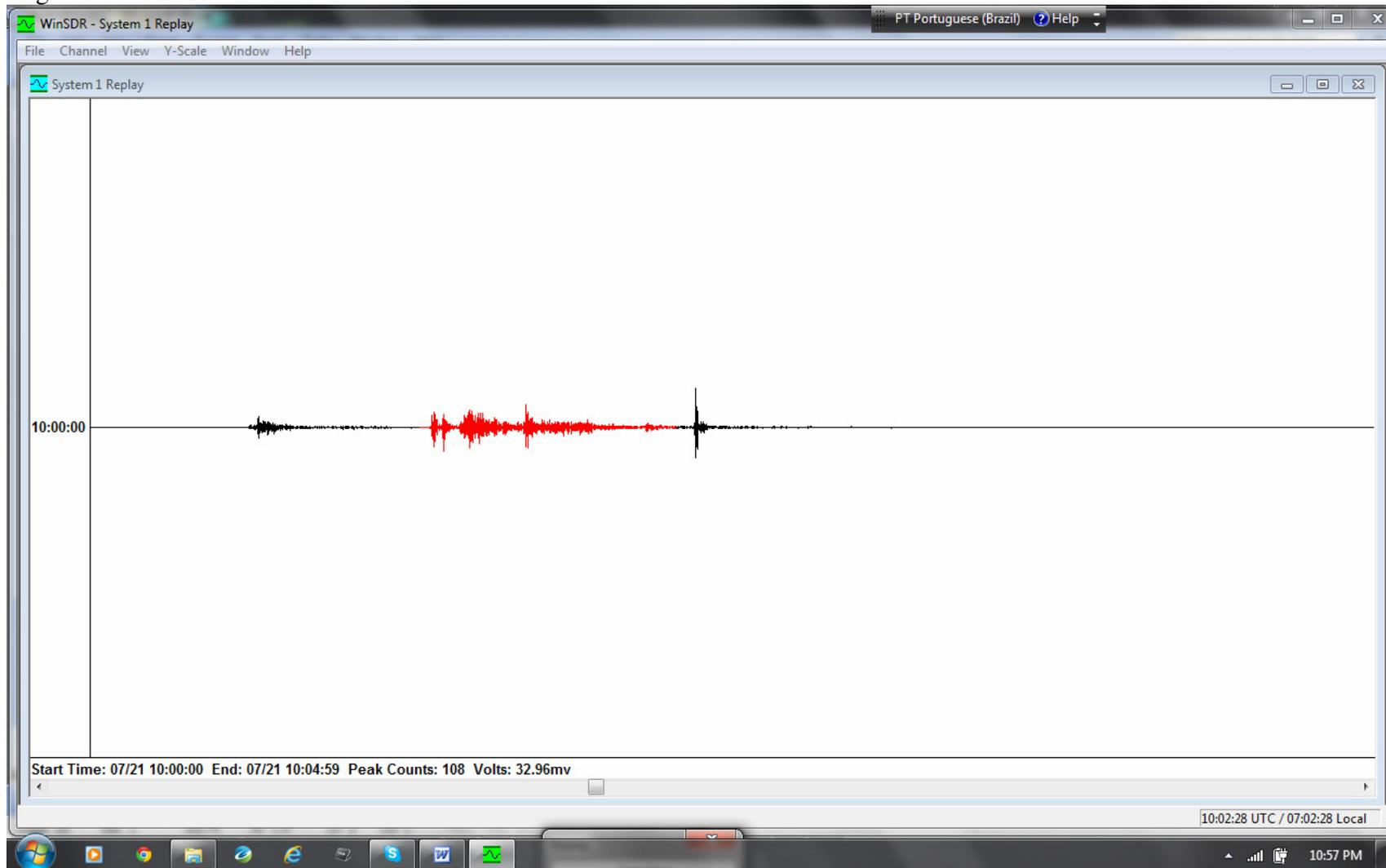
Evento 10

Registro de SANT1:



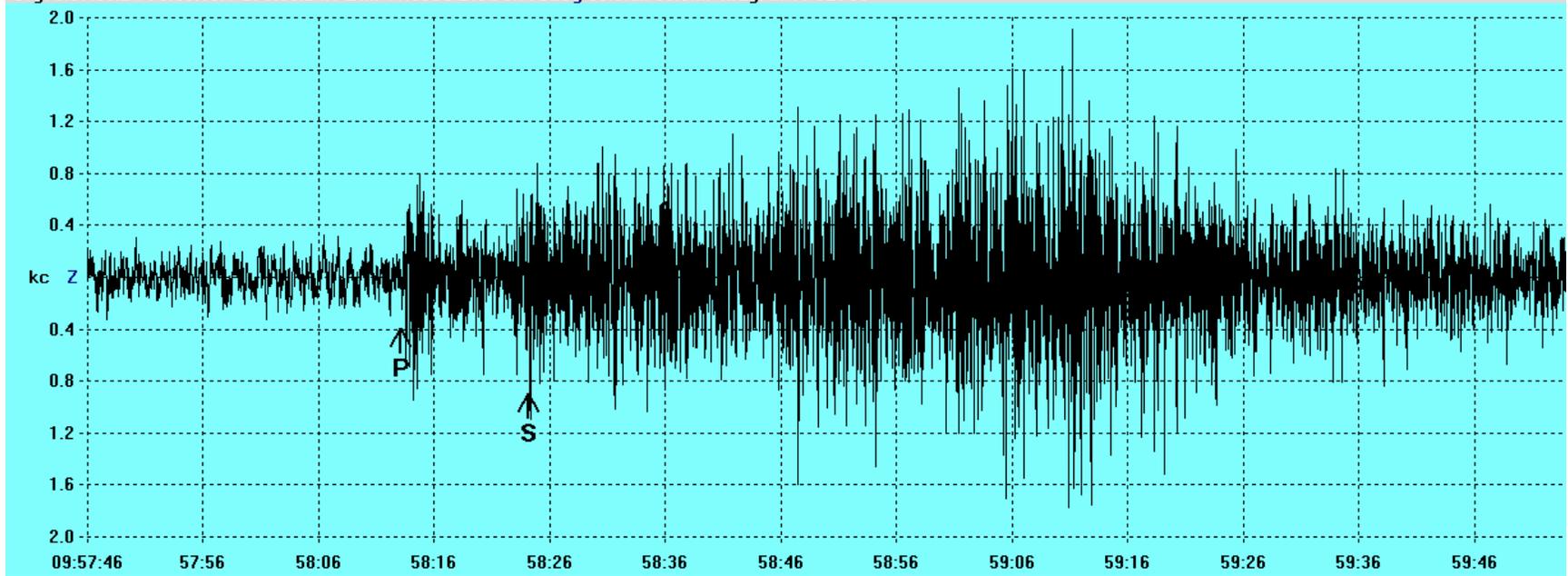
Evento 10

Registro de SANT2:



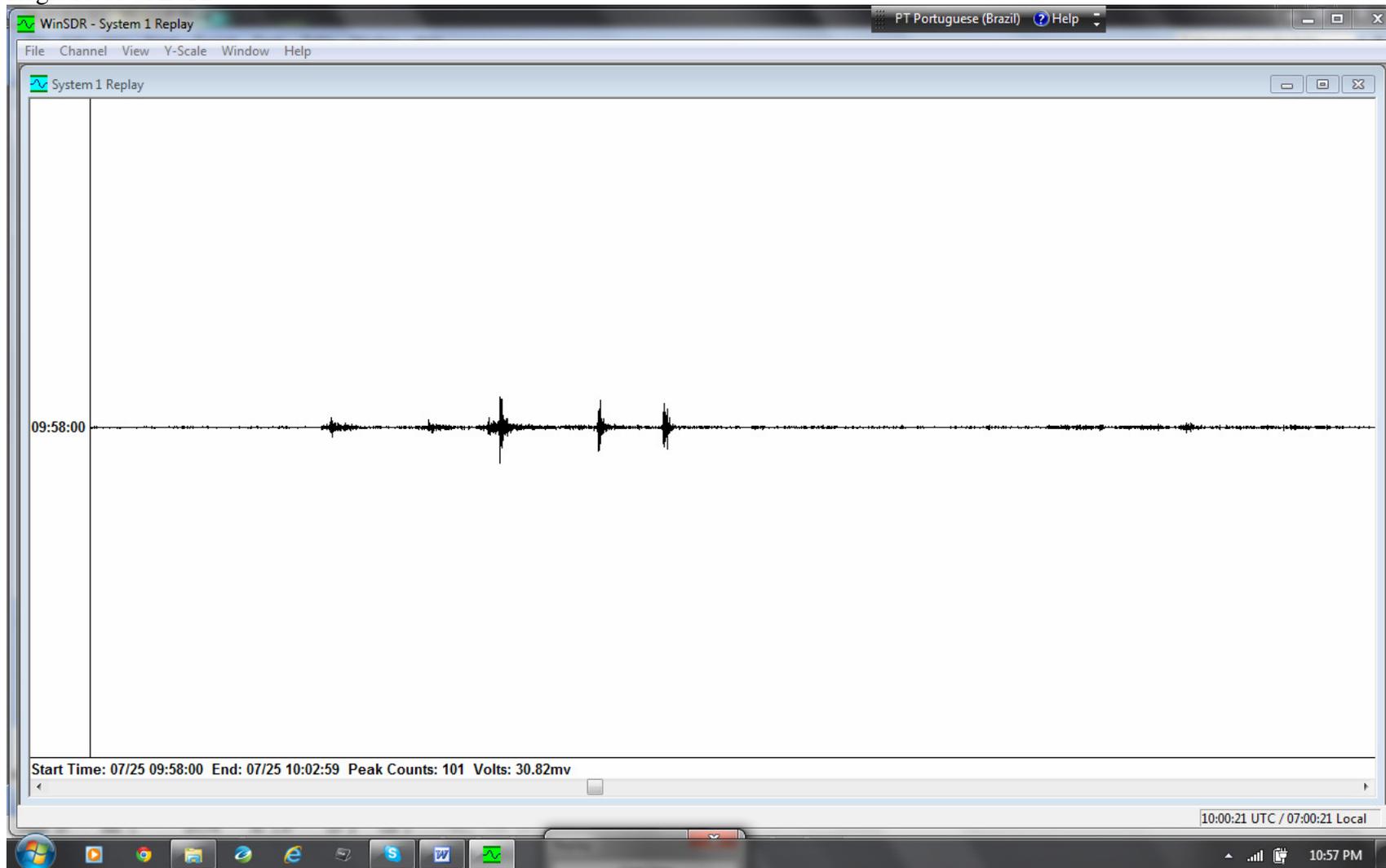
Evento 10

Start: 7/25/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 1910/-1776 X: 2.08.0 Y: 2kc
Org: 9:57:58.2 P: 9:58:13.1 S: 9:58:24.1 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



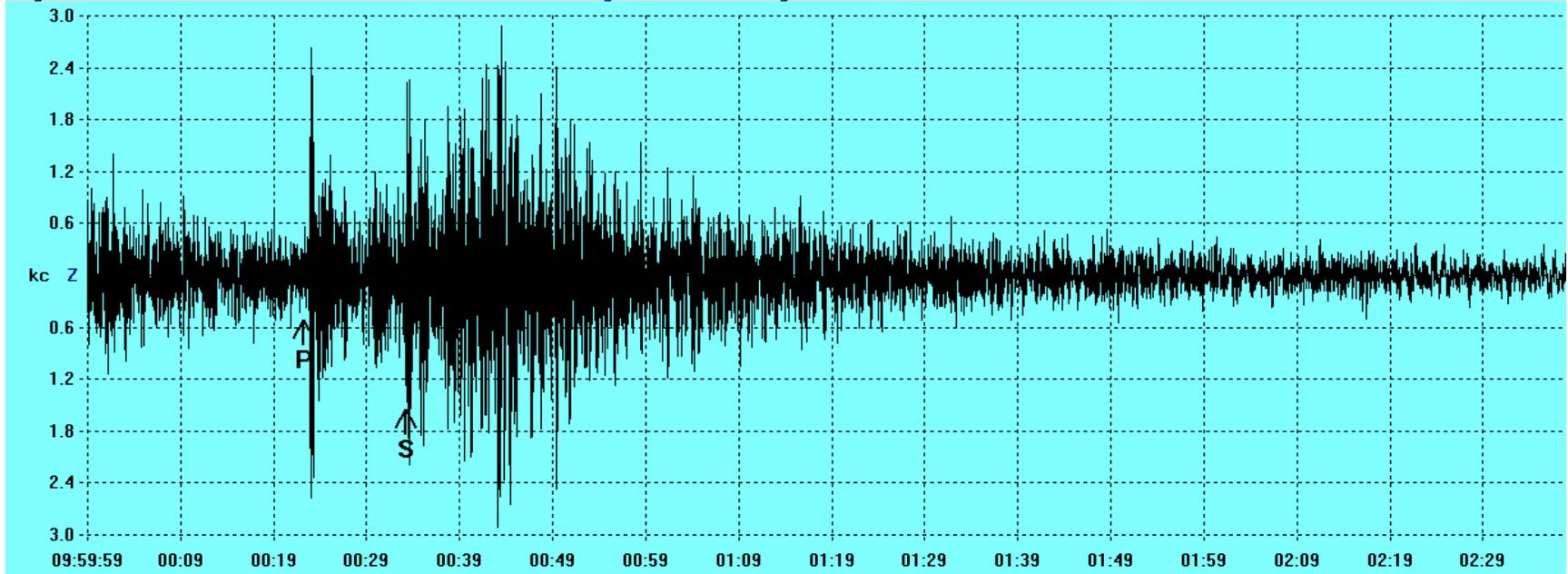
Evento 11

Registro de SANT2:



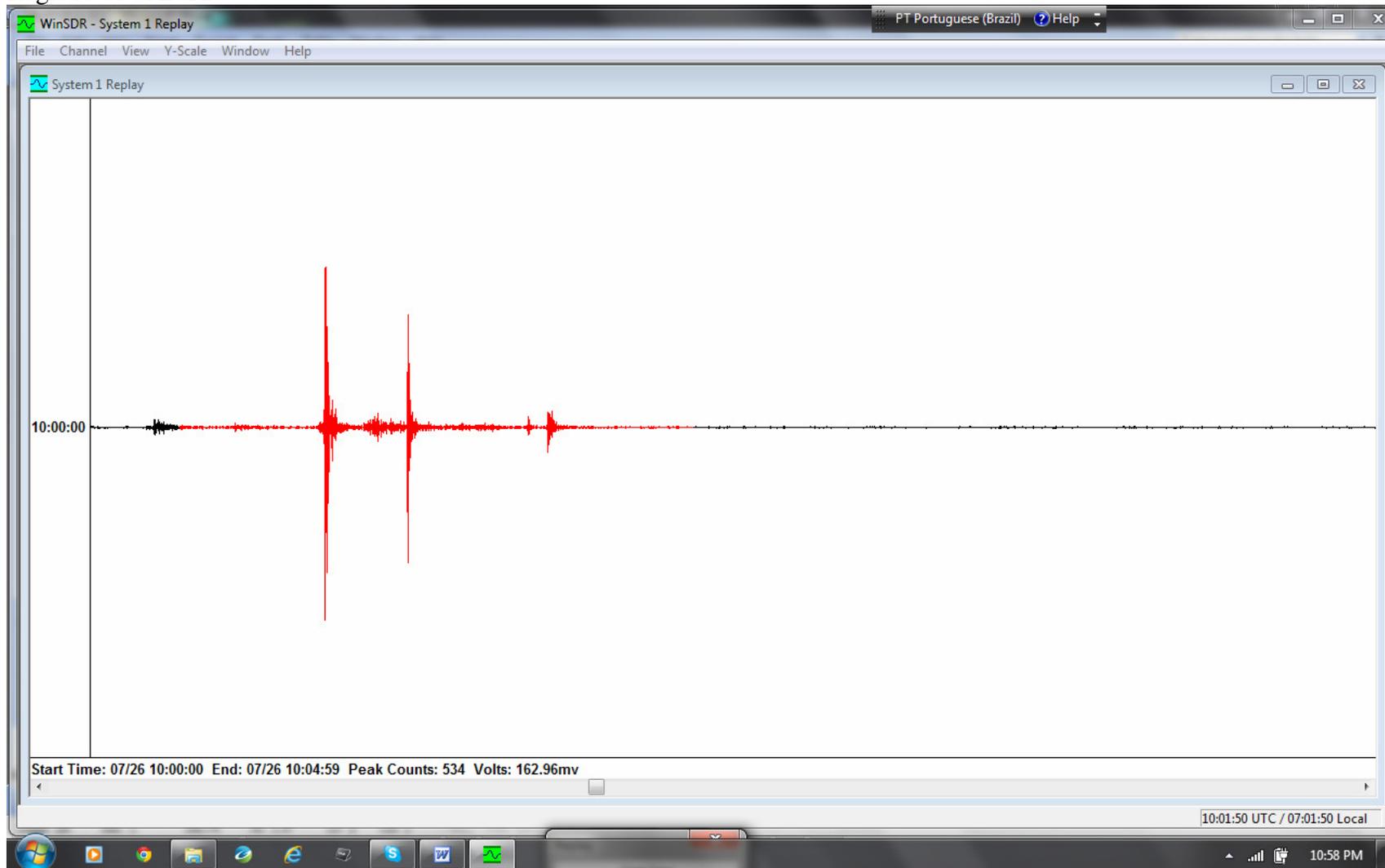
Evento 11

Start: 7/26/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2885/-2912 X: 2:39.0 Y: 3kc
Org: 10:00:07.3 P: 10:00:22.2 S: 10:00:33.2 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



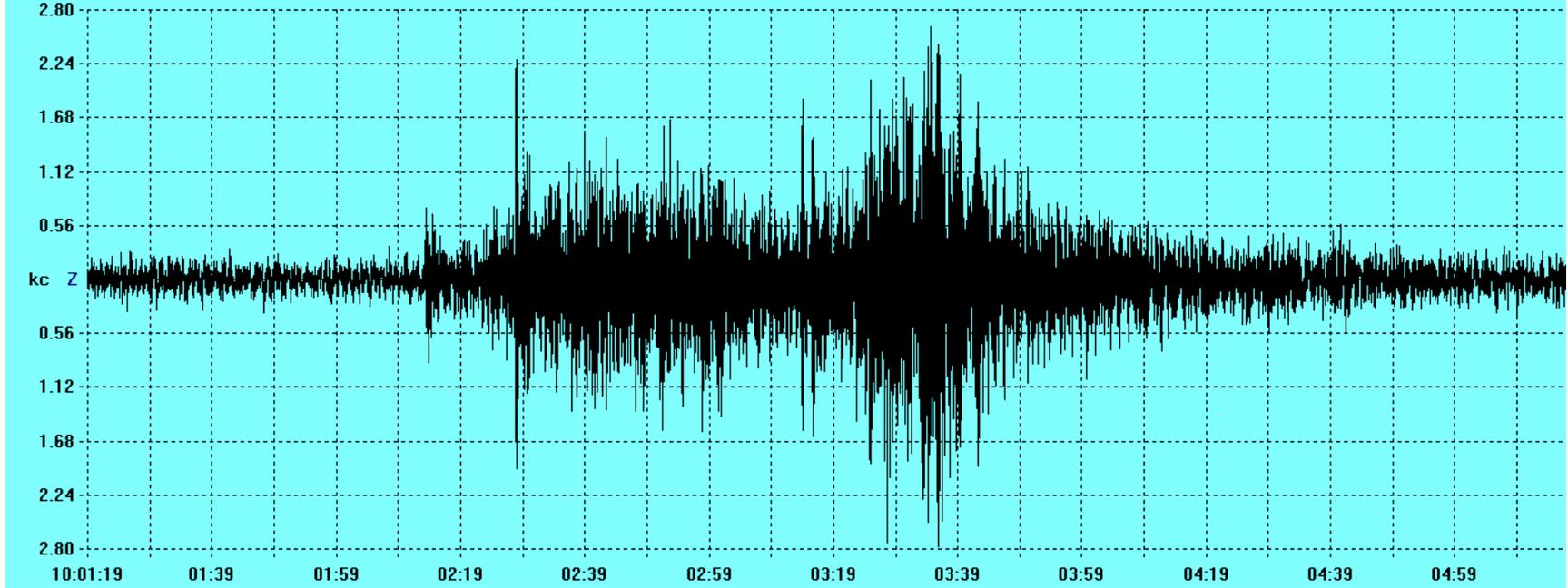
Evento 12

Registro de SANT2:



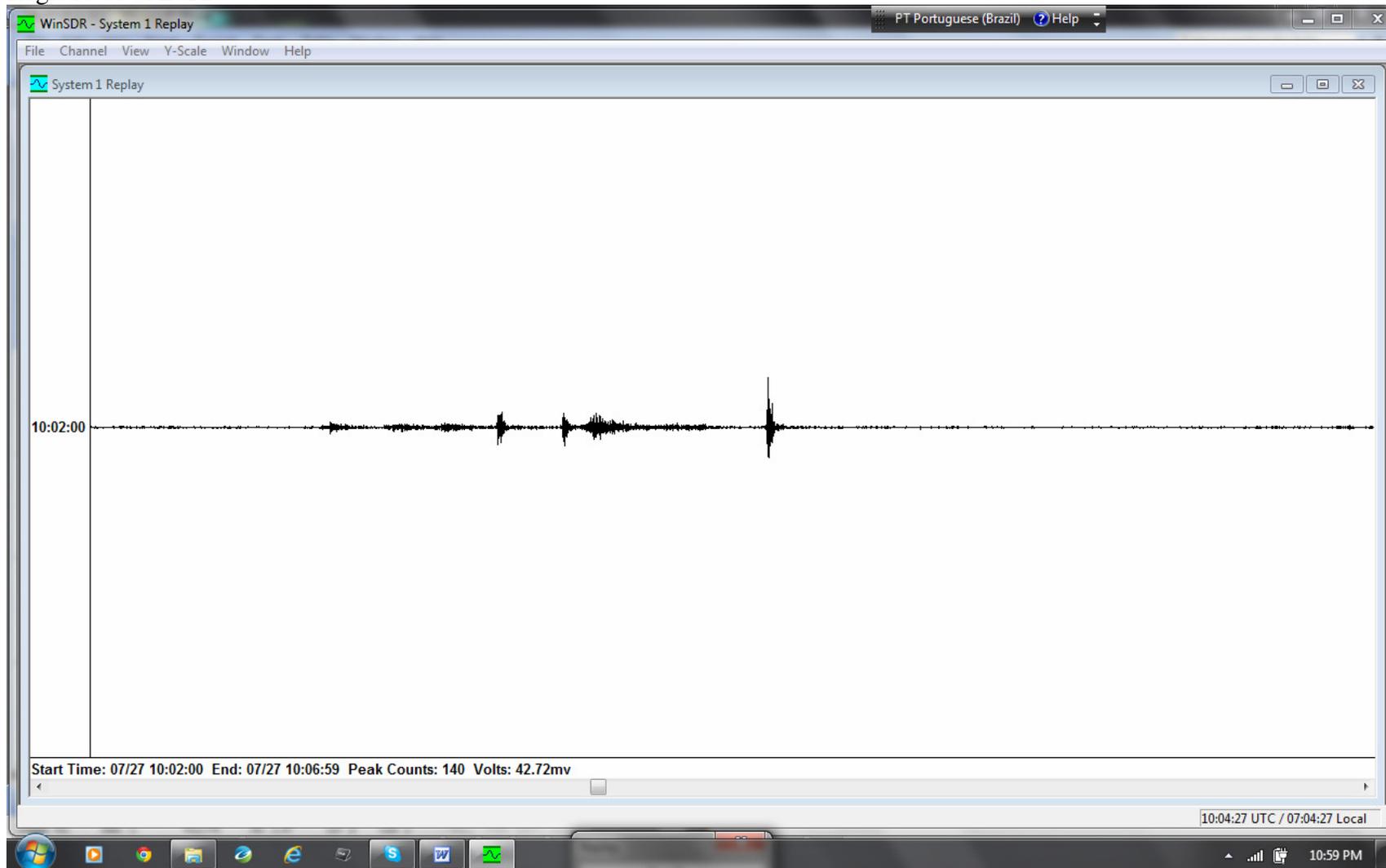
Evento 12

Start: 7/27/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2629/-2767 X: 3:58.0 Y: 2.8kc



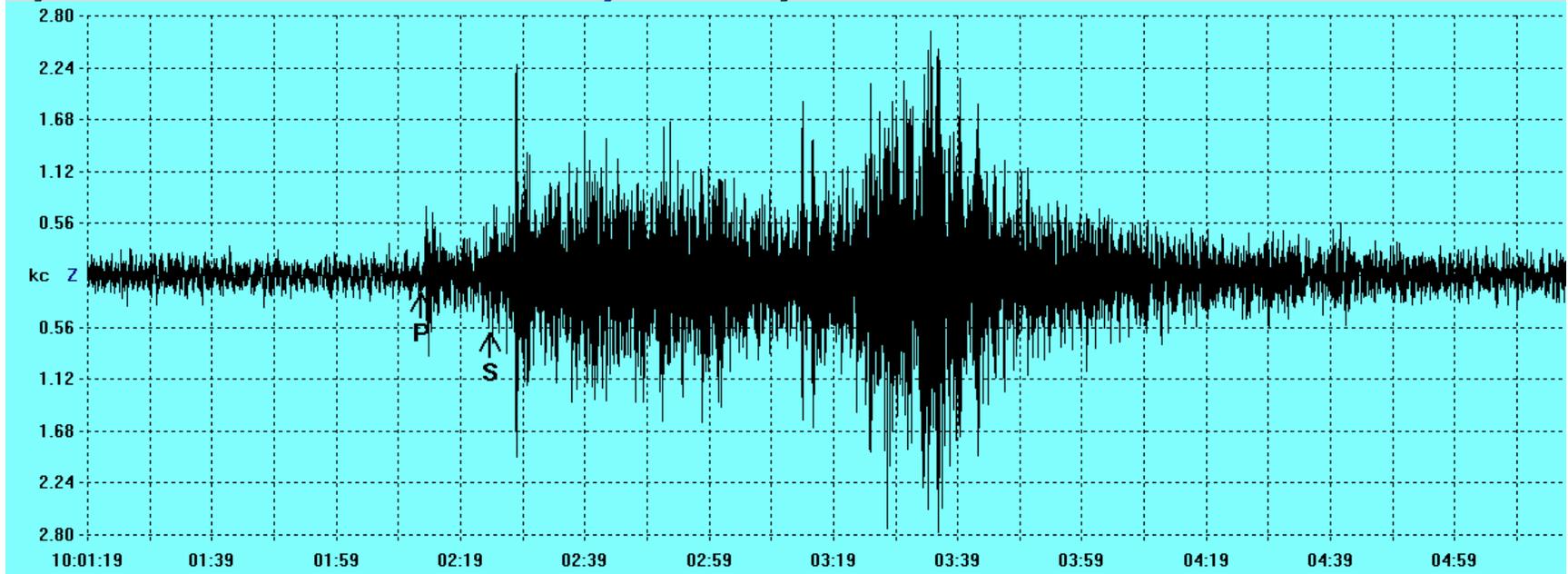
Evento 13

Registro de SANT2:



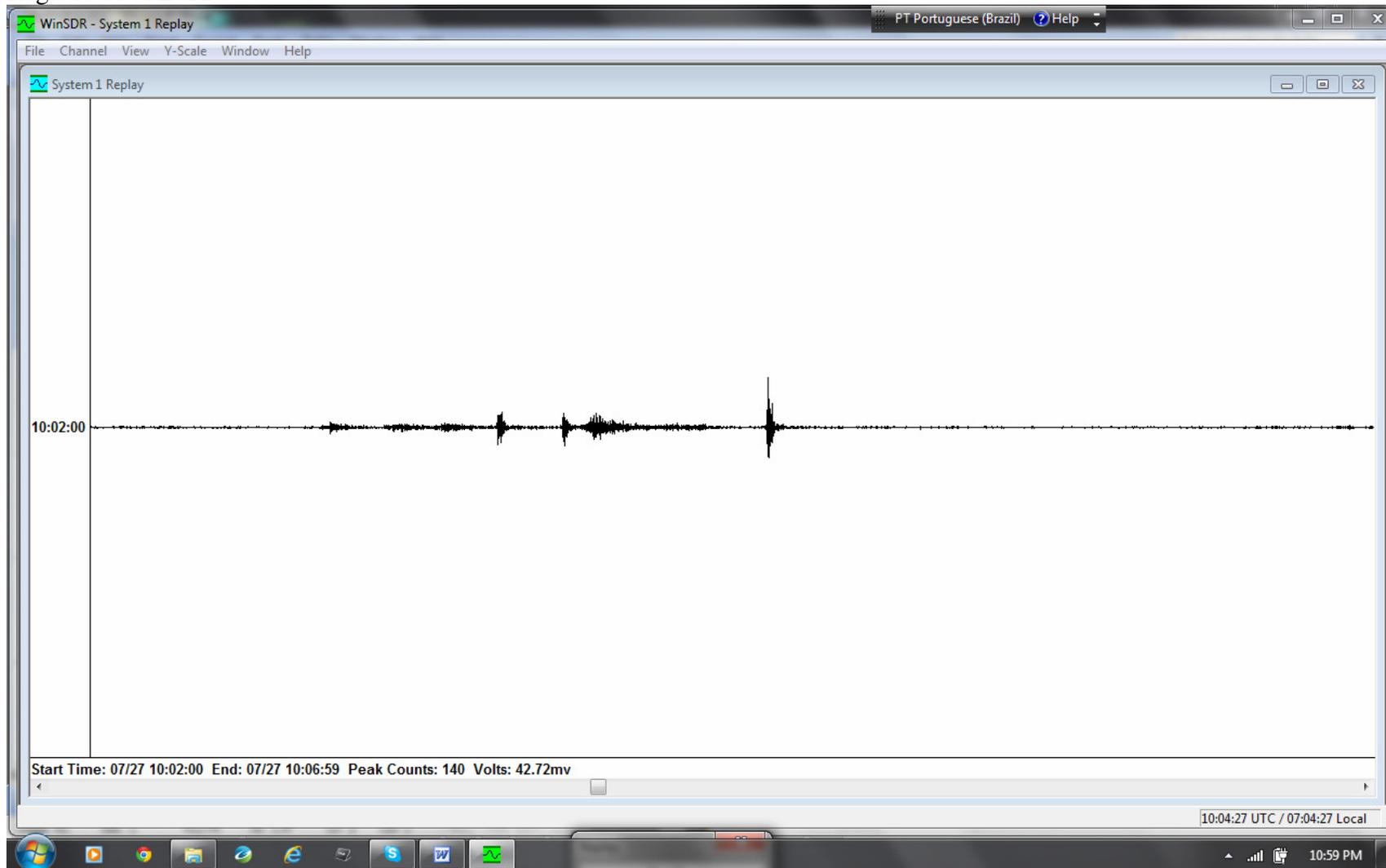
Evento 13

Start: 7/27/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2629/-2767 X: 3:58.0 Y: 2.8kc
Org: 10:01:57.6 P: 10:02:12.6 S: 10:02:23.7 Diff: 11.1sec Dist: 0.783deg 87.0km 54.1mi Mag: MI?? JB: 33



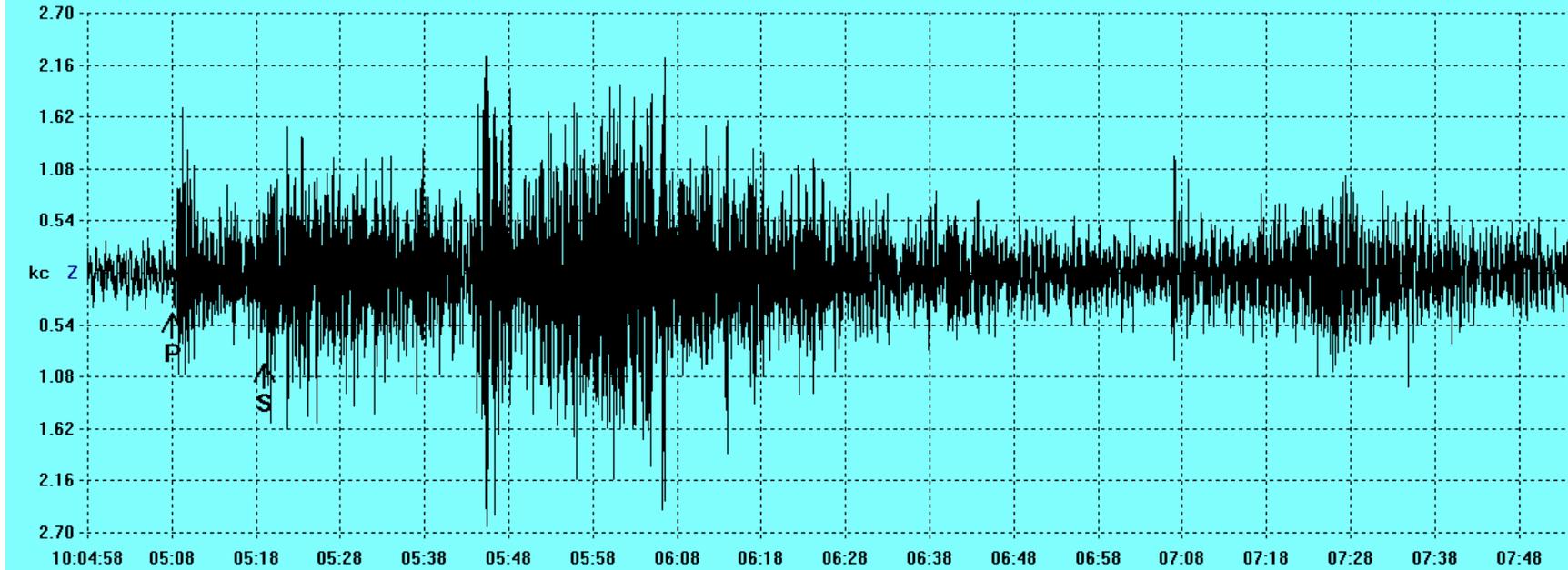
Evento 13

Registro de SANT2:



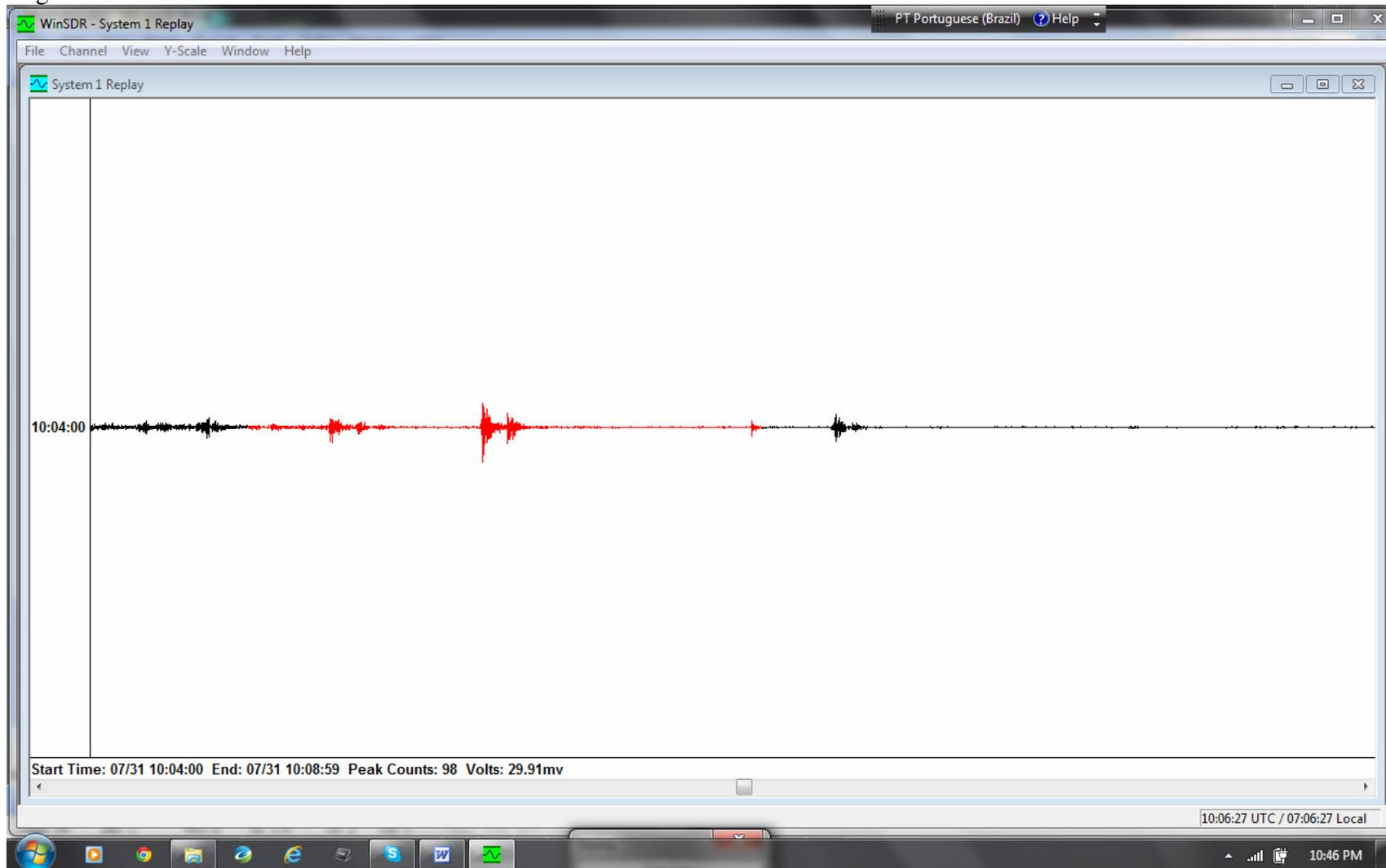
Evento 13

Start: 7/31/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2247/-2634 X: 2.56.0 Y: 2.7kc
Org: 10:04:53.1 P: 10:05:08.0 S: 10:05:19.0 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



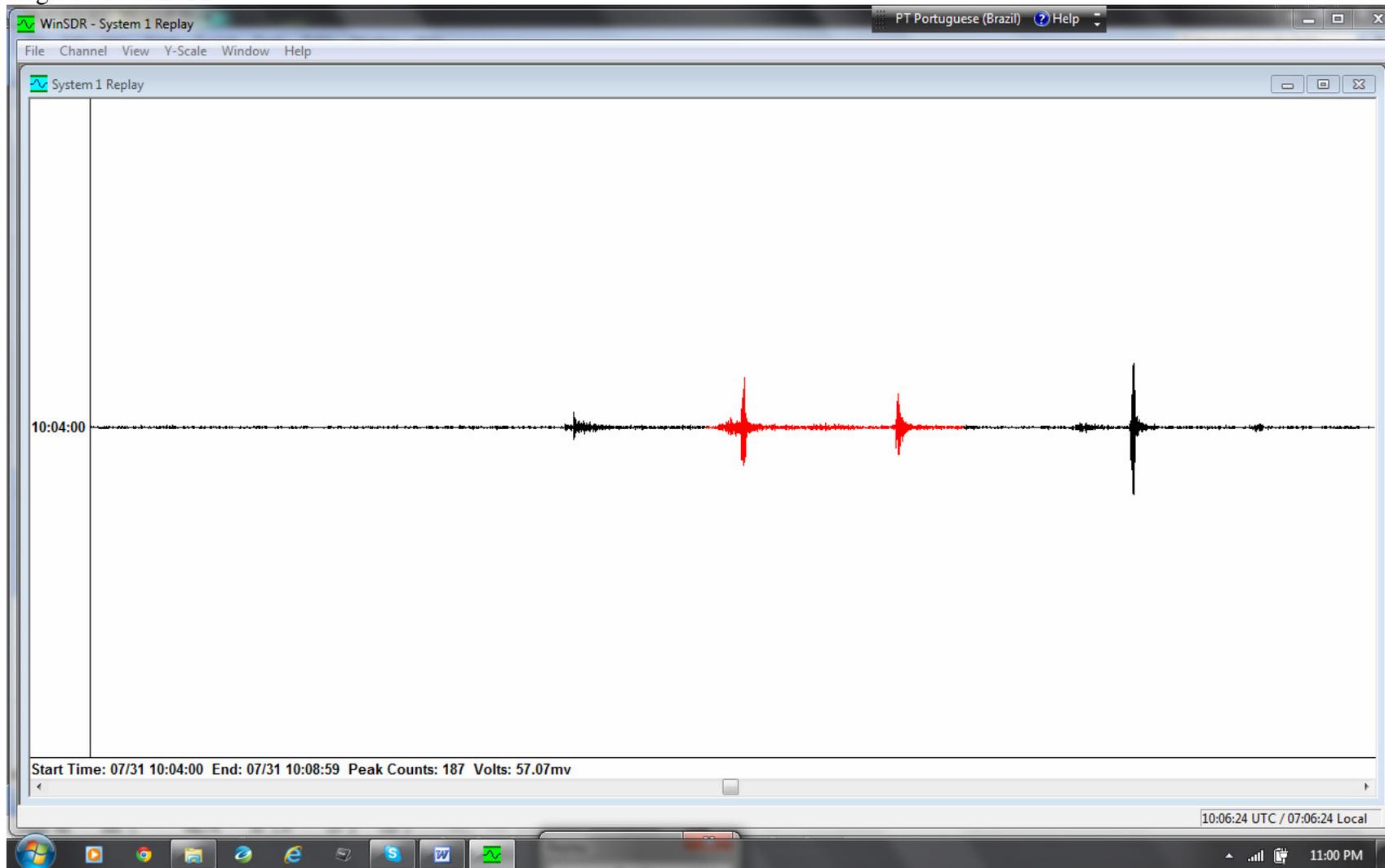
Evento 14

Registro de SANT1:



Evento 14

Registro de SANT2:



Evento 14

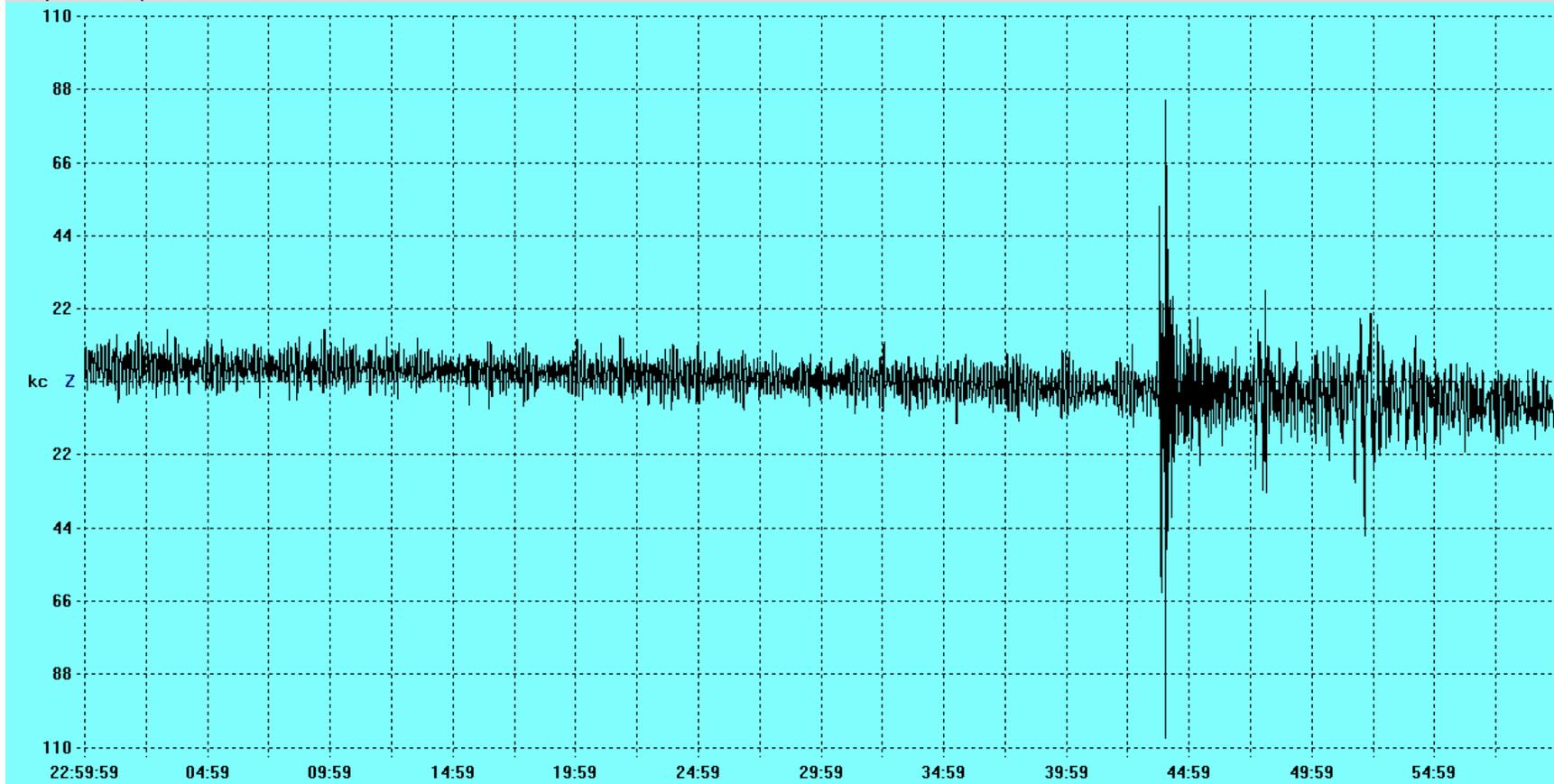
Principais Telessismos Registrados no Canteiro de Obras da UHE Santo Antônio

**Julho
2012**

Registros das Estação SAML

O sismograma a seguir não foi filtrado:

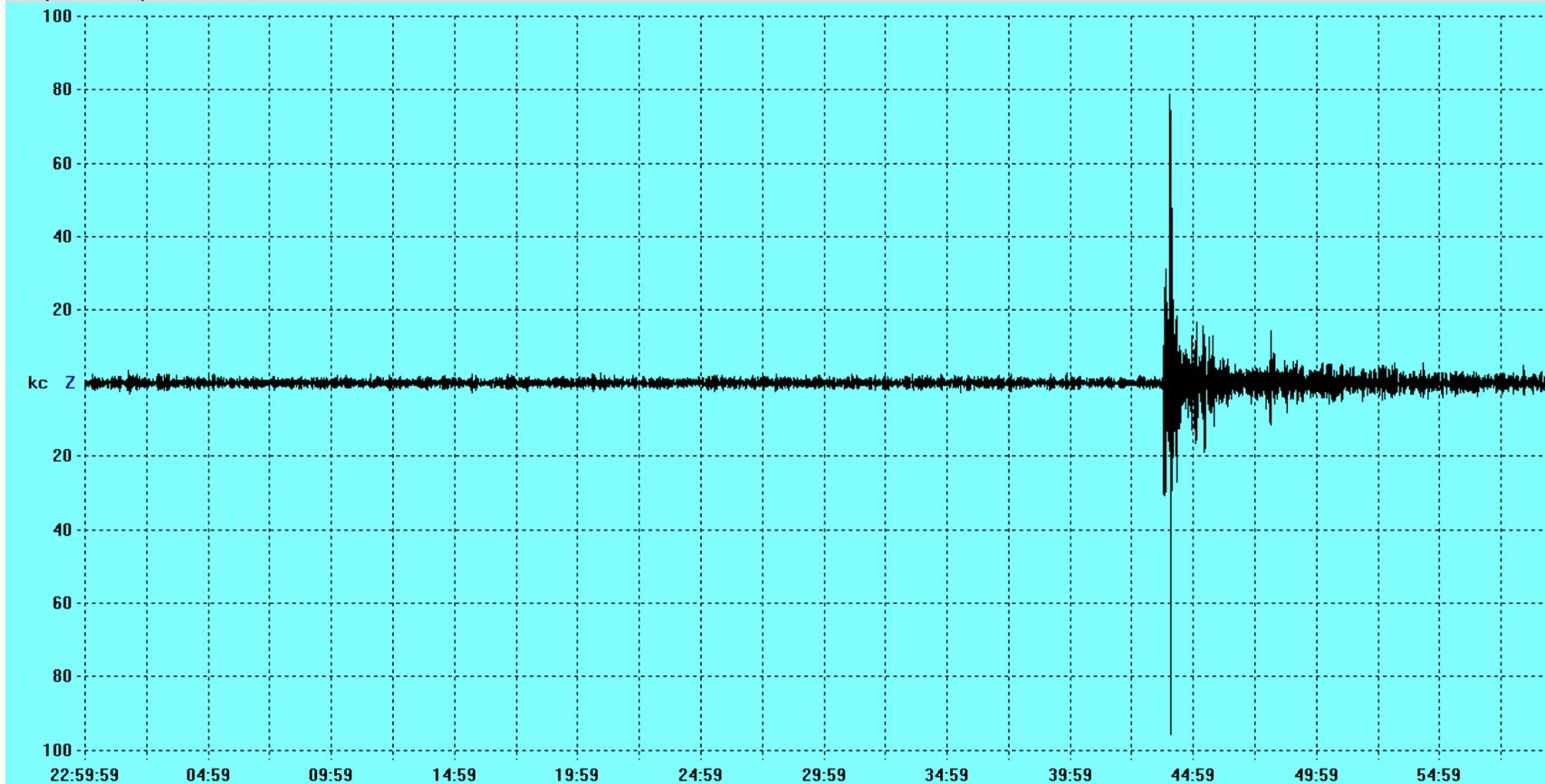
Start: 7/01/12 22:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 84532/-107221 X: 1:00:00 Y: 110kc



Telessismo: PDE-Q 2012 07 01 233908.77 -28.56 -70.88 35 5.4 MwGS

Versão filtrada (band-pass) do sismograma acima:

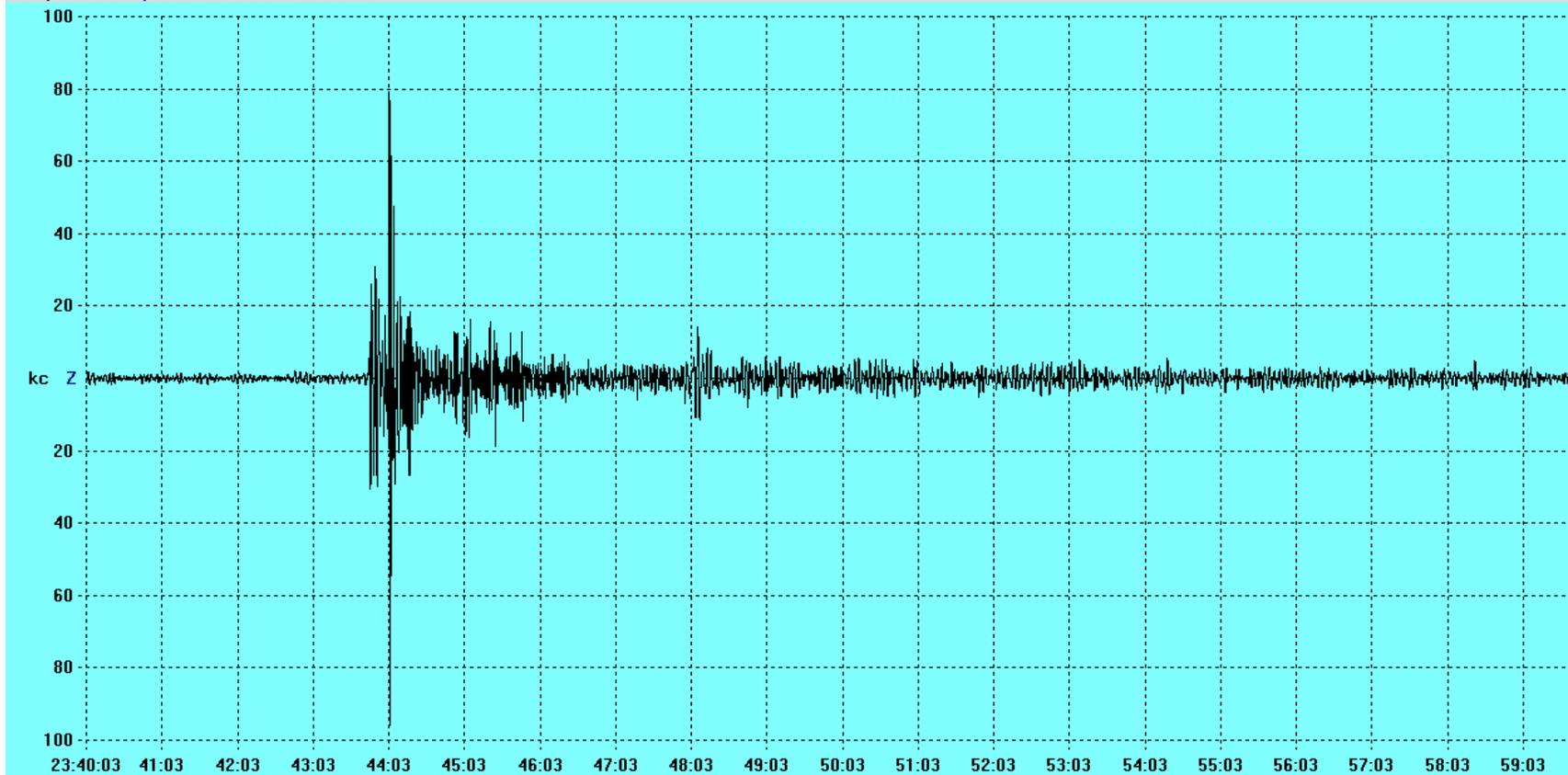
Start: 7/01/12 22:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 78520/-95762 X: 1:00:00 Y: 100kc



PDE-Q 2012 07 01 233908.77 -28.56 -70.88 35 5.4 MwGS

Detalhes do sismograma acima:

Start: 7/01/12 22:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 78520/-95762 X: 19:50.0 Y: 100kc

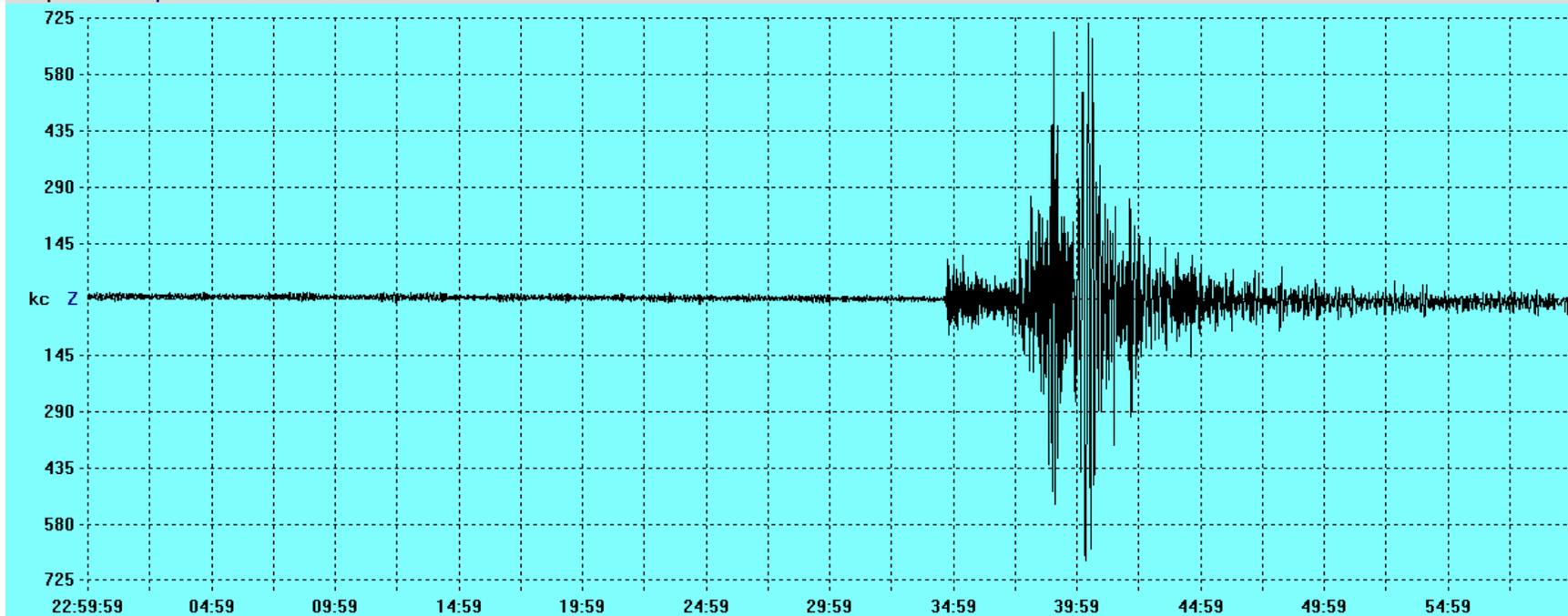


PDE-Q 2012 07 01 233908.77 -28.56 -70.88 35 5.4 MwGS

O sismograma a seguir não foi filtrado:

Start: 7/02/12 22:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 709846/-673900 X: 1:00:00 Y: 725kc

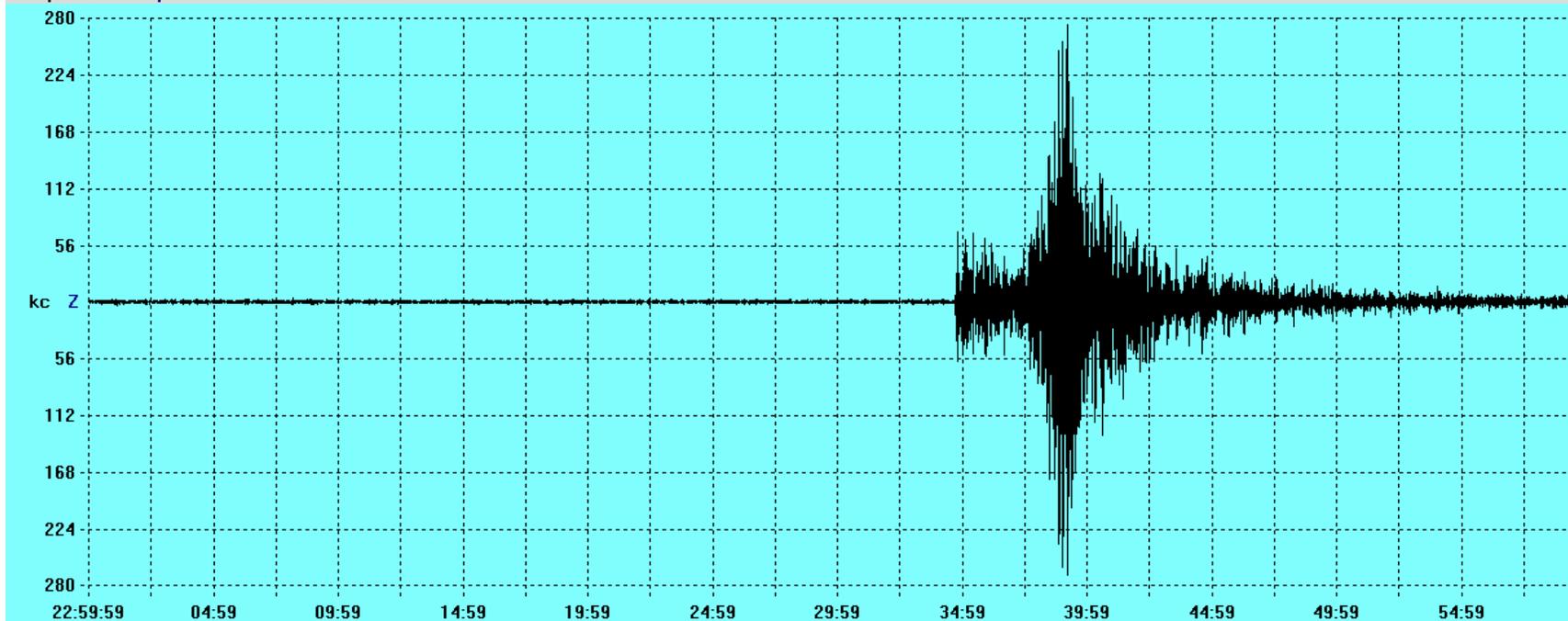


Telessismo: PDE-Q 2012 07 02 233137.91 -14.42 -75.60 39 5.7 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 7/02/12 22:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 273613/-269316 X: 1:00:00 Y: 280kc

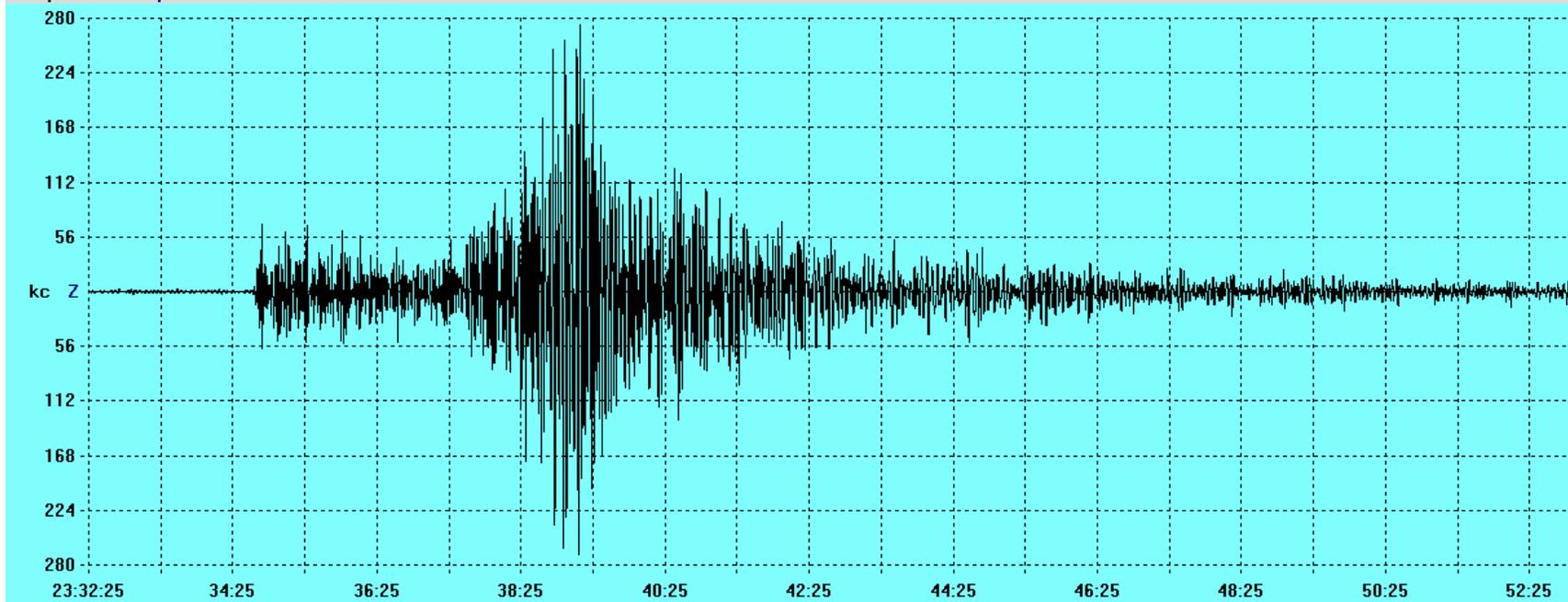


PDE-Q 2012 07 02 233137.91 -14.42 -75.60 39 5.7 MwWCMT

Detalhes do sismograma acima:

Start: 7/02/12 22:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 273613/-269316 X: 20:47.0 Y: 280kc

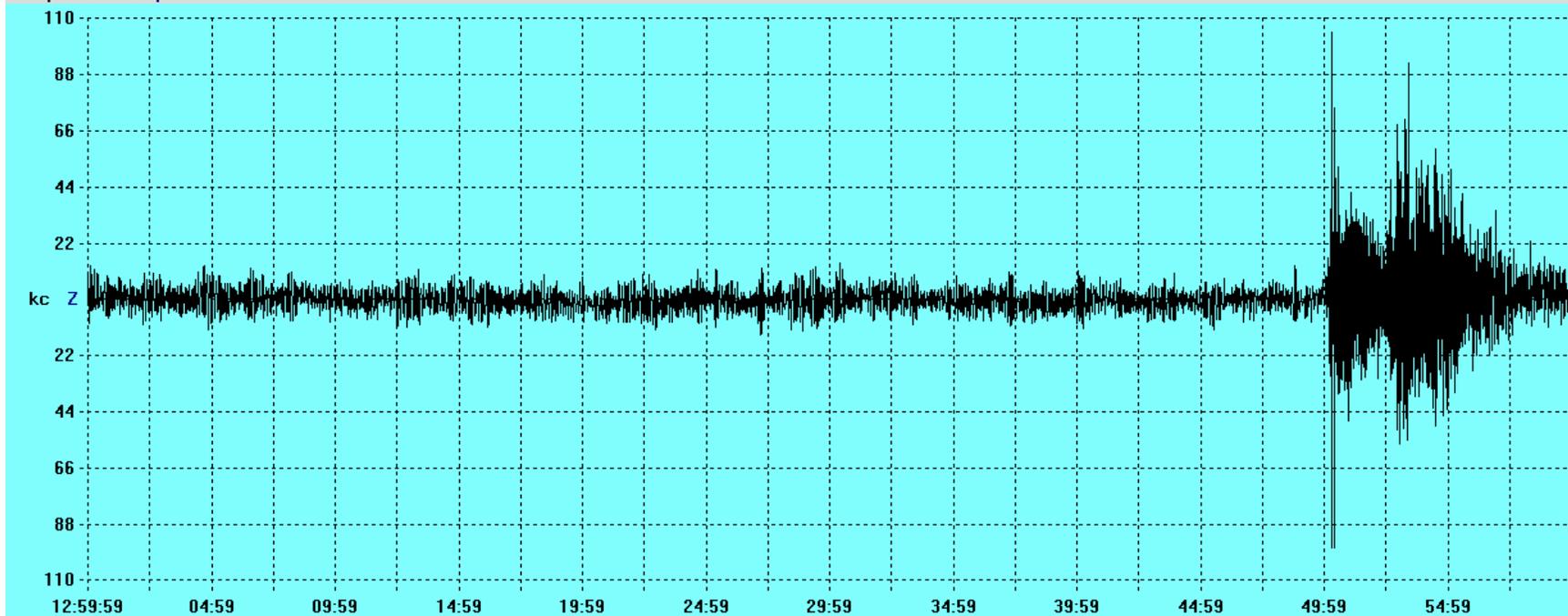


PDE-Q 2012 07 02 233137.91 -14.42 -75.60 39 5.7 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 7/03/12 12:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 104242/-97464 X: 1:00:00 Y: 110kc

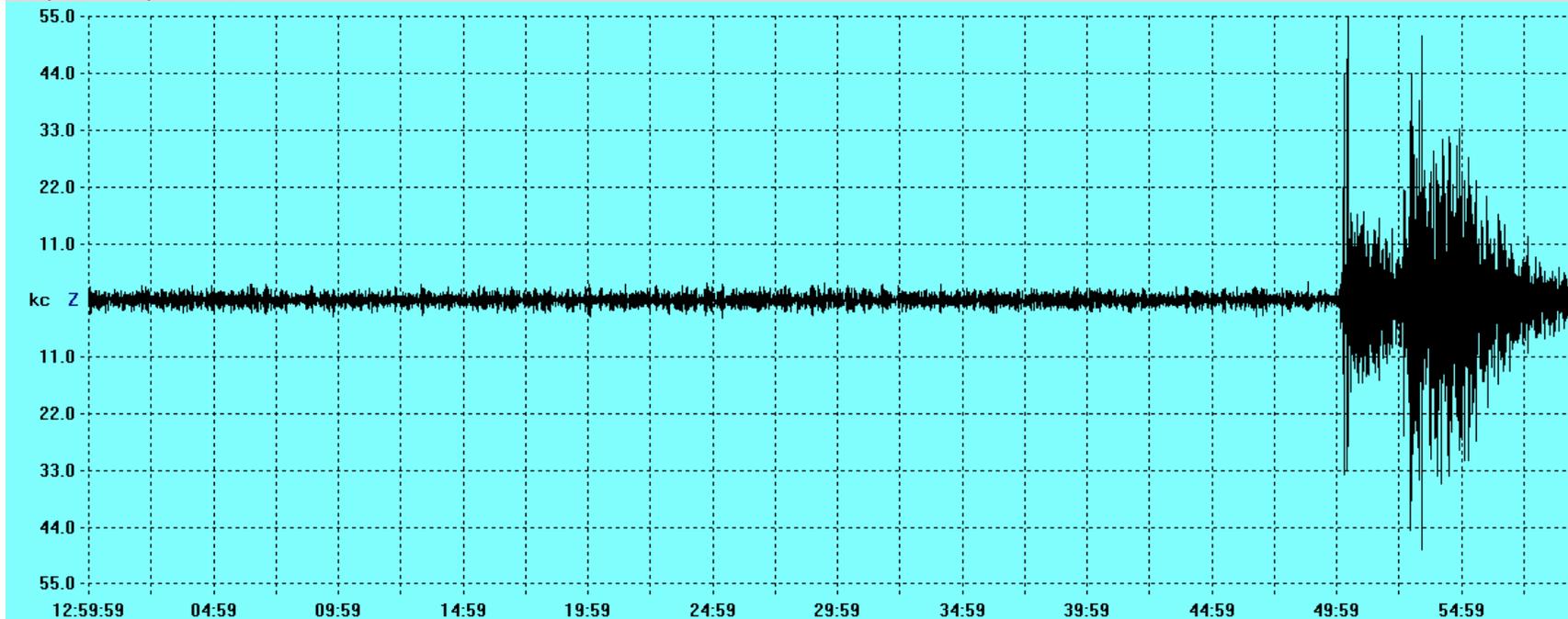


Telessismo: PDE-Q 2012 07 03 134703.19 -4.03 -76.15 115 5.1 mbGS

Versão filtrada (band-pass) do sismograma acima:

Start: 7/03/12 12:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 54687/-48322 X: 1:00:00 Y: 55kc

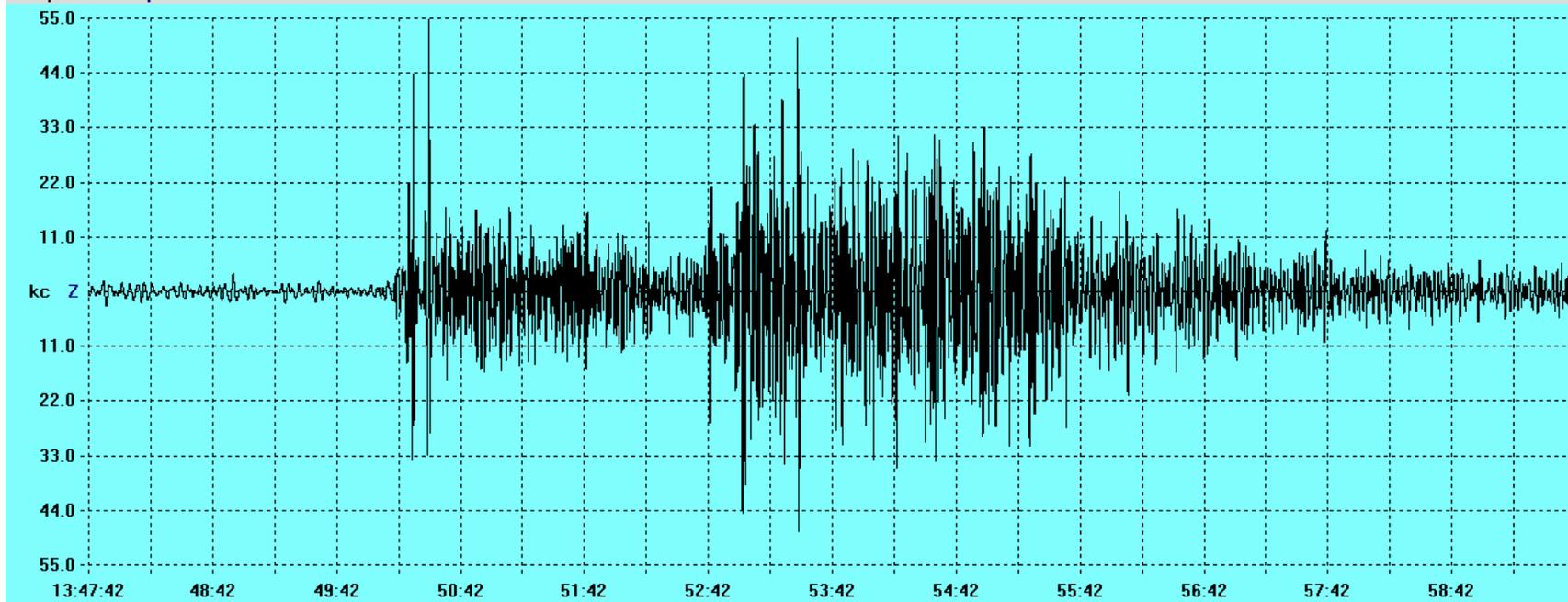


PDE-Q 2012 07 03 134703.19 -4.03 -76.15 115 5.1 mbGS

Detalhes do sismograma acima:

Start: 7/03/12 12:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 54687/-48322 X: 12:05.0 Y: 55kc

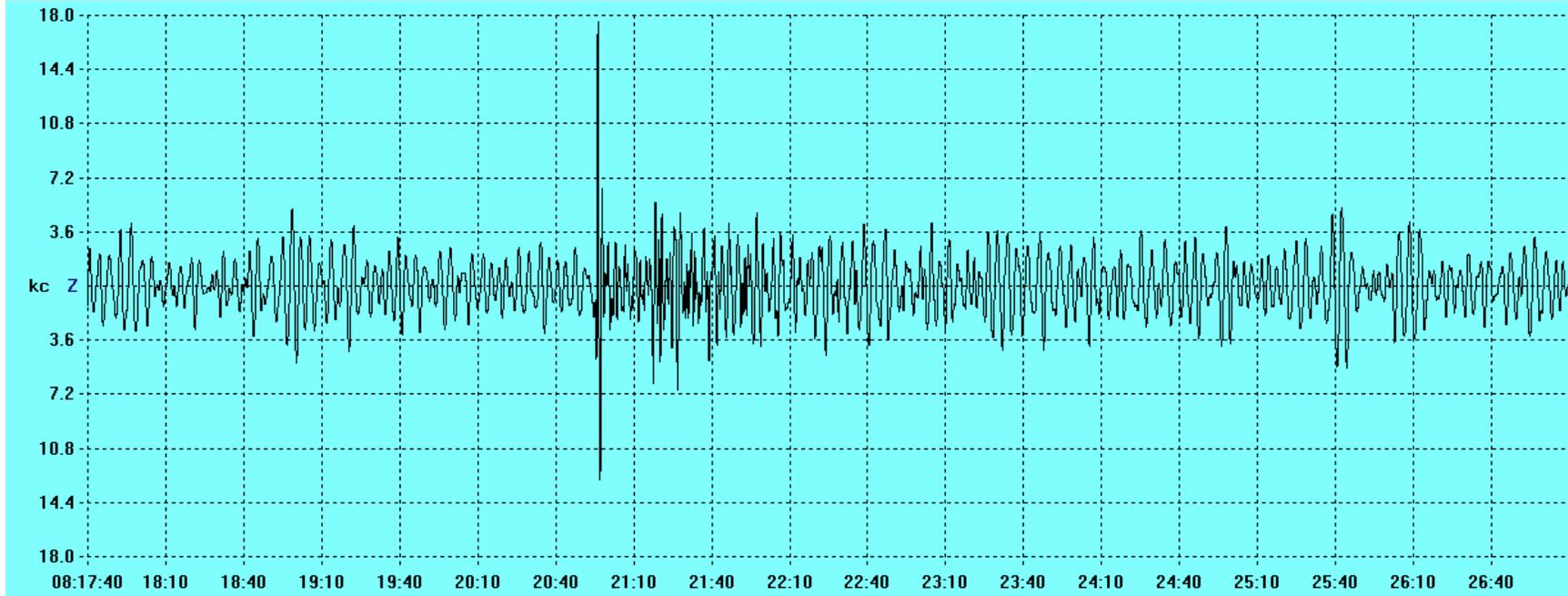


PDE-Q 2012 07 03 134703.19 -4.03 -76.15 115 5.1 mbGS

O sismograma a seguir foi filtrado usando-se o filtro band-pass:

Start: 7/07/12 7:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 17541/-12887 X: 9:30.0 Y: 18kc

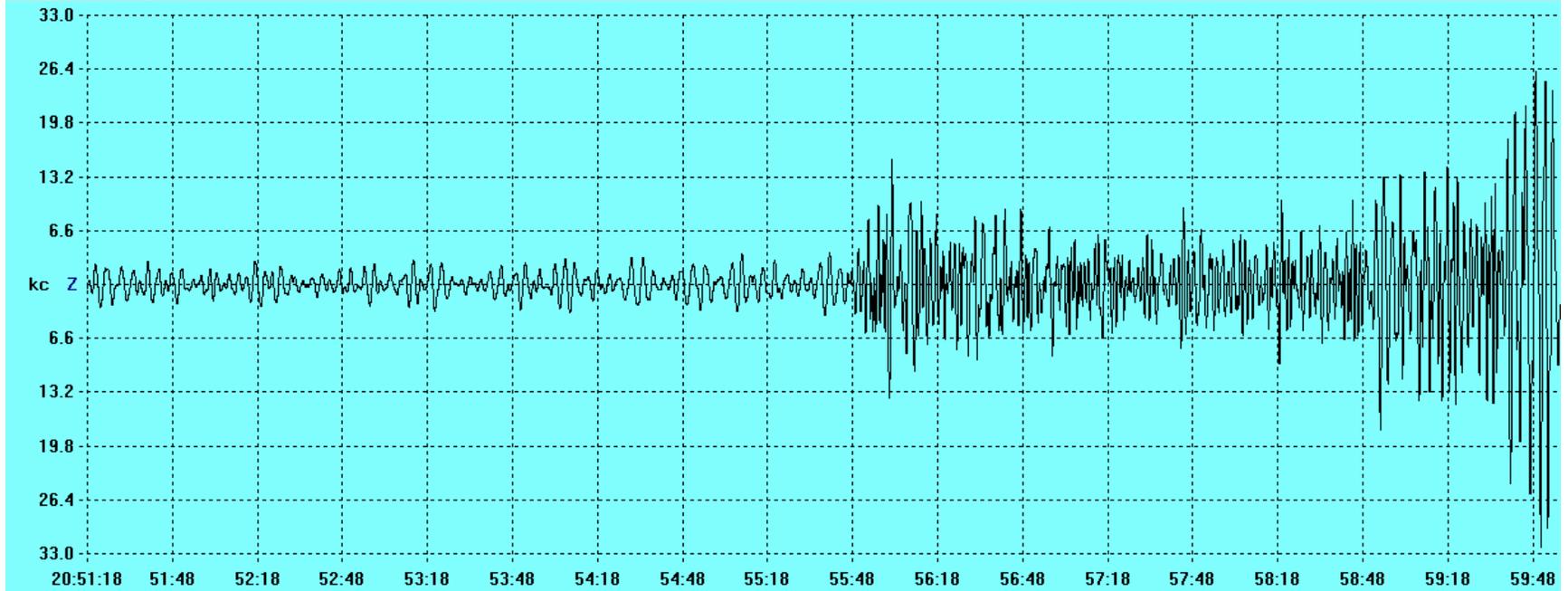


Telessismo: PDE-Q 2012 07 07 081137.02 -56.20 -27.41 100 5.4 mbGS

O sismograma a seguir foi filtrado usando-se o filtro band-pass:

Start: 7/11/12 19:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 26152/-32163 X: 8-40.0 Y: 33kc

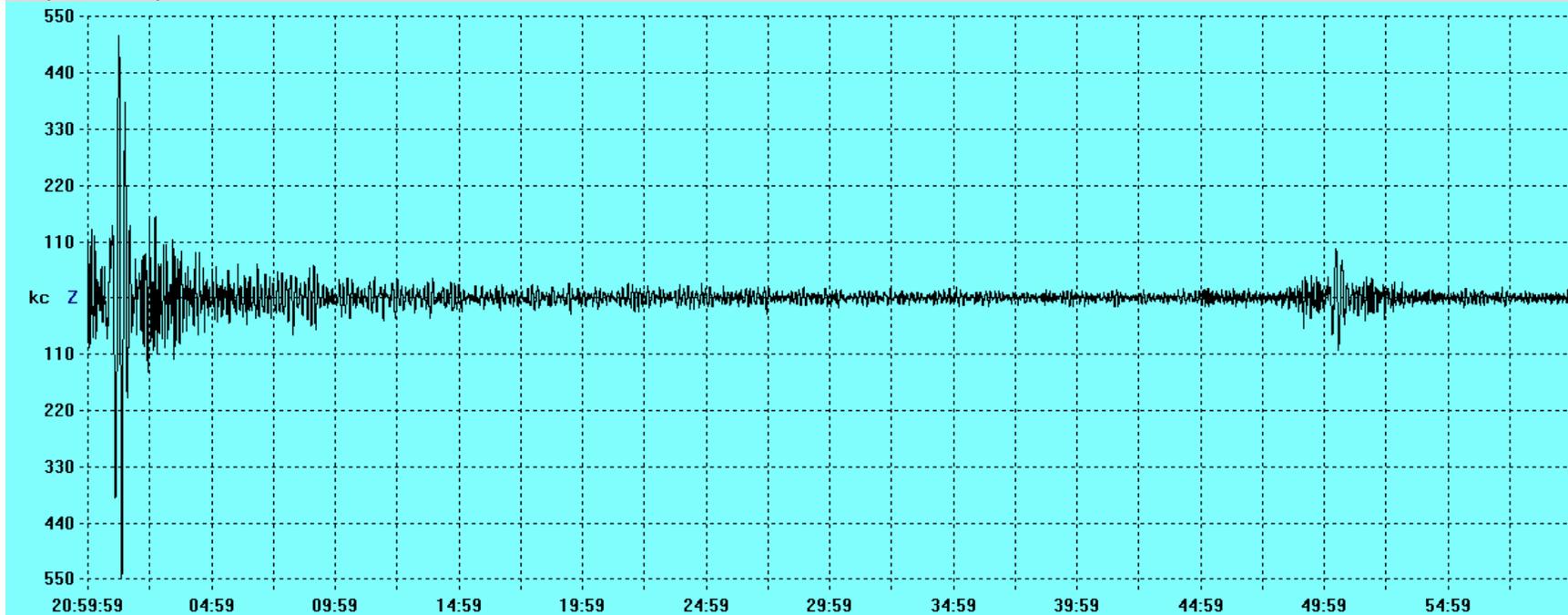


Telessismo: PDE-Q 2012 07 11 205237.78 -15.33 -75.39 19 5.4 MwGS

Hora consecutiva à do sismograma acima (sismograma não filtrado):

Start: 7/11/12 20:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 511513/-546926 X: 1:00:00 Y: 550kc

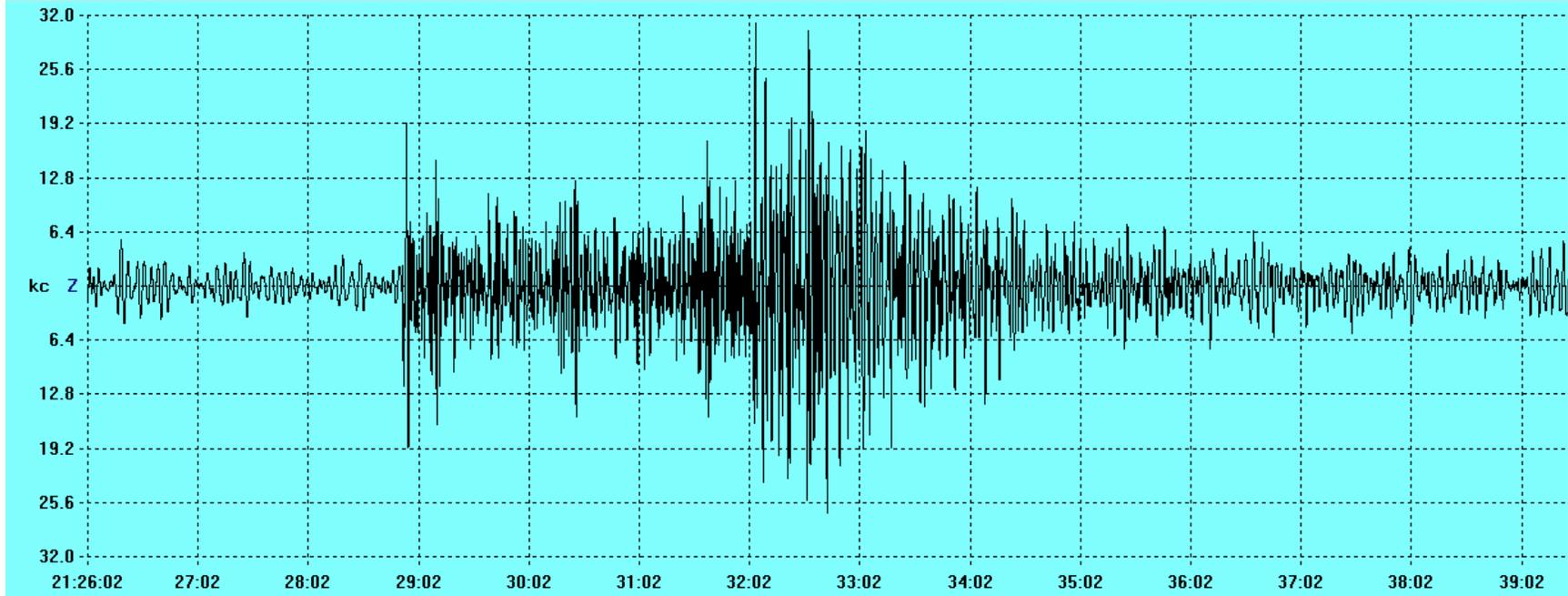


PDE-Q 2012 07 11 205237.78 -15.33 -75.39 19 5.4 MwGS

O sismograma a seguir foi filtrado usando-se o filtro band-pass:

Start: 7/13/12 20:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 31081/-26824 X: 13:26.0 Y: 32kc

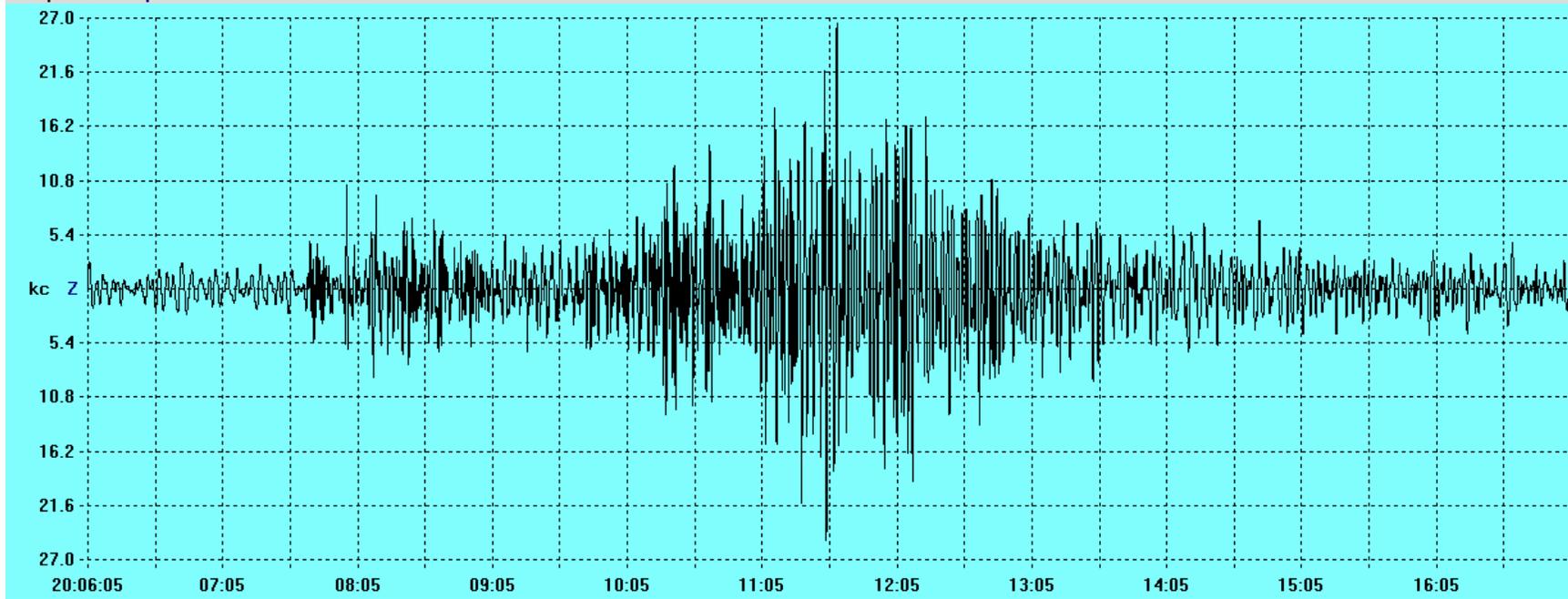


Telessismo: PDE-Q 2012 07 13 212613.21 -15.23 -73.17 88 5.1 mbGS

O sismograma a seguir foi filtrado usando-se o filtro band-pass:

Start: 7/15/12 19:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 26515/-25032 X: 11:00.0 Y: 27kc

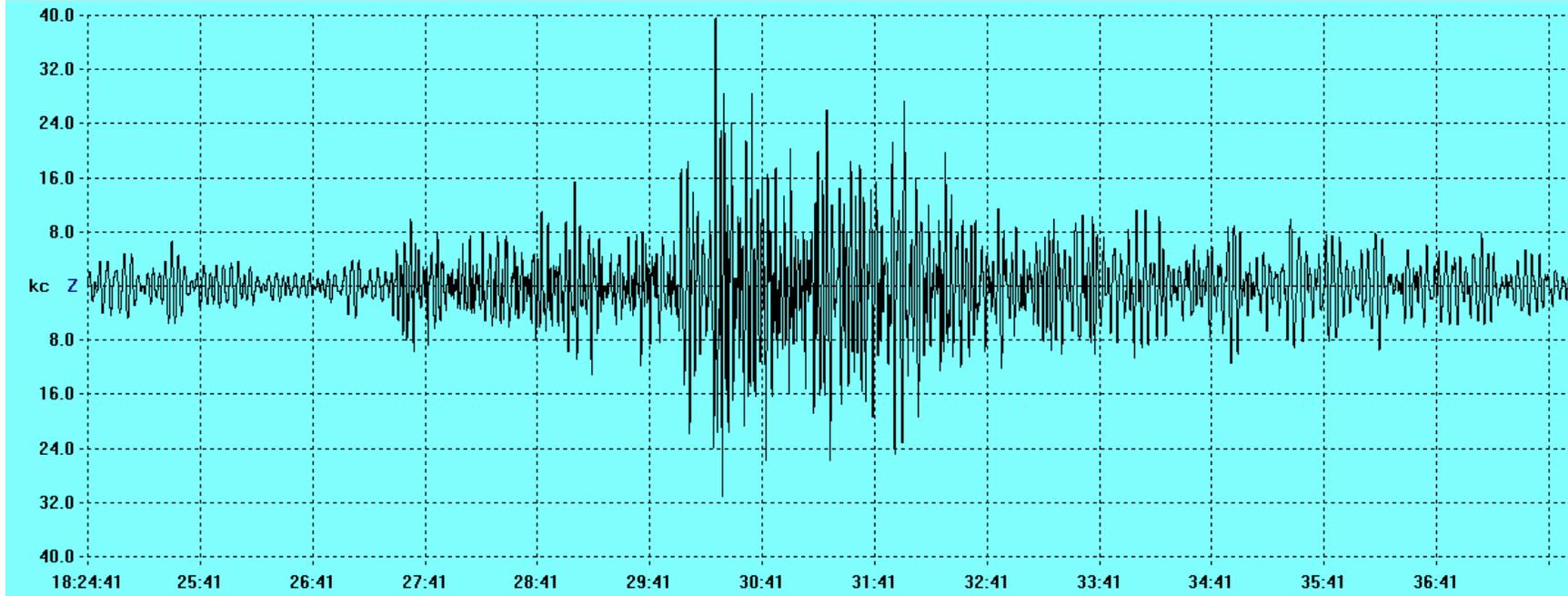


Telessismo: PDE-Q 2012 07 15 200504.63 -13.70 -73.84 69 5.0 mbGS

O sismograma a seguir foi filtrado usando-se o filtro band-pass:

Start: 7/18/12 17:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 39703/-31062 X: 13:11.0 Y: 40kc

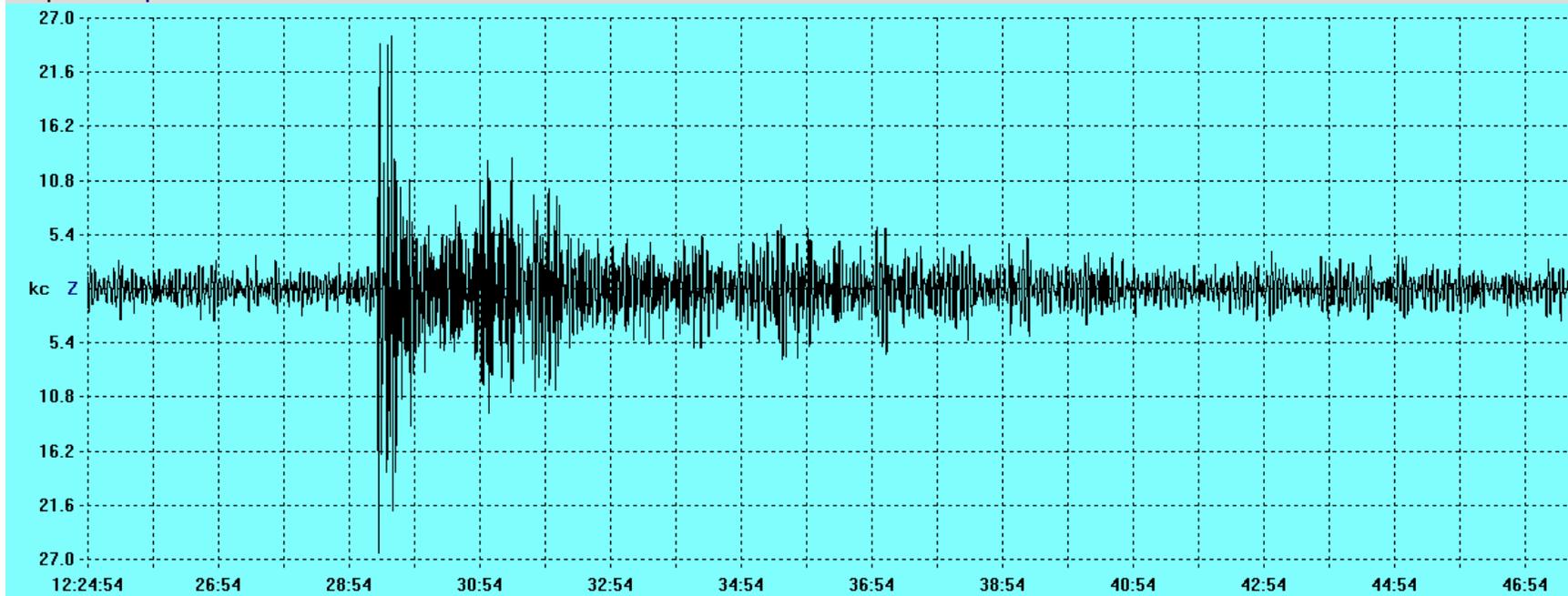


Telessismo: PDE-Q 2012 07 18 182409.94 -20.75 -70.49 18 5.1 MwRMT

O sismograma a seguir foi filtrado usando-se o filtro band-pass:

Start: 7/29/12 11:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 25214/-26322 X: 22:42.0 Y: 27kc



Telessismo: PDE-Q 2012 07 29 122211.81 14.19 -92.29 18 5.9 MwWCMT