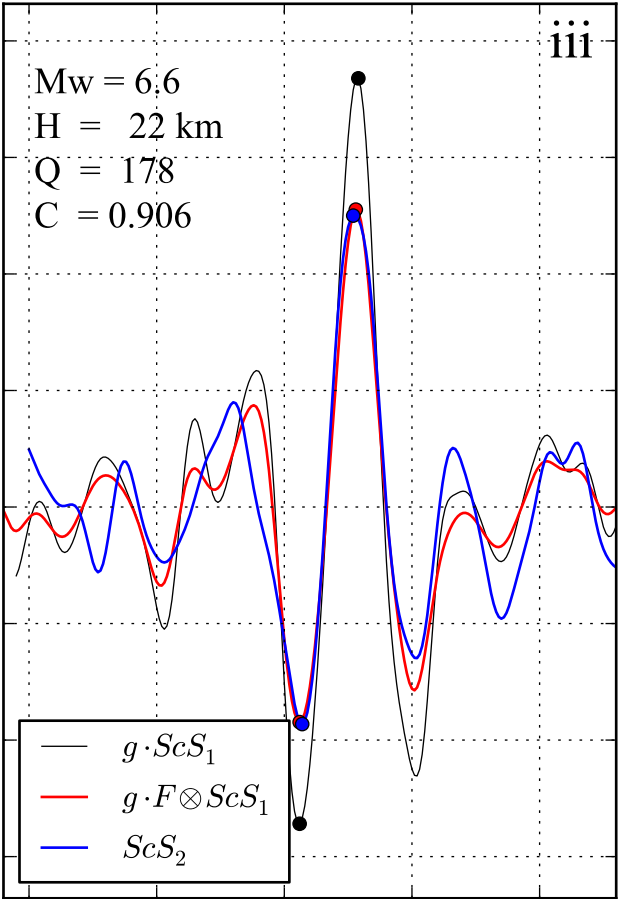
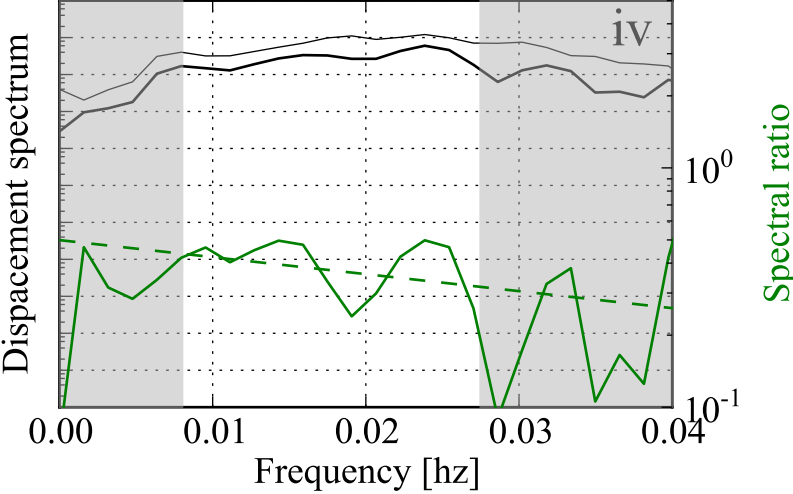


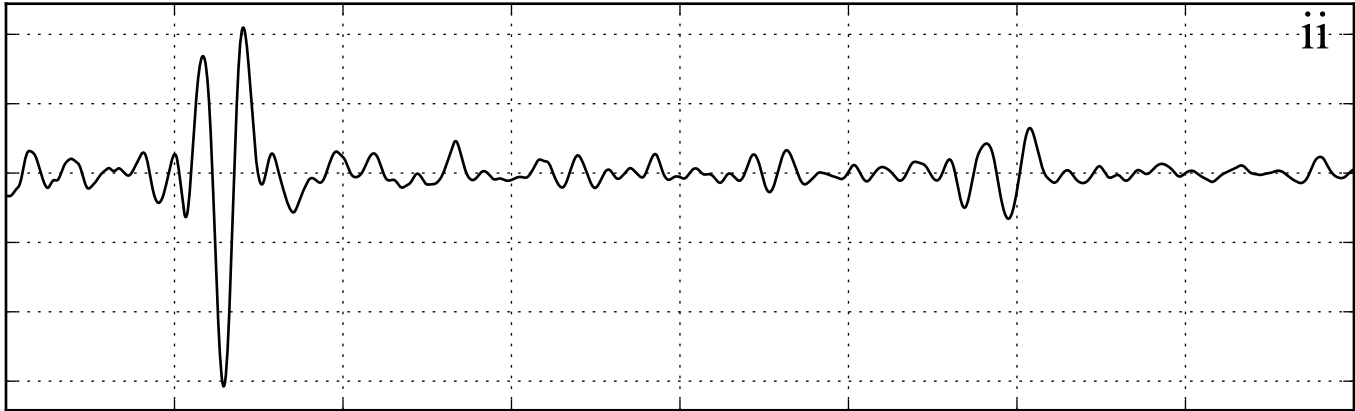
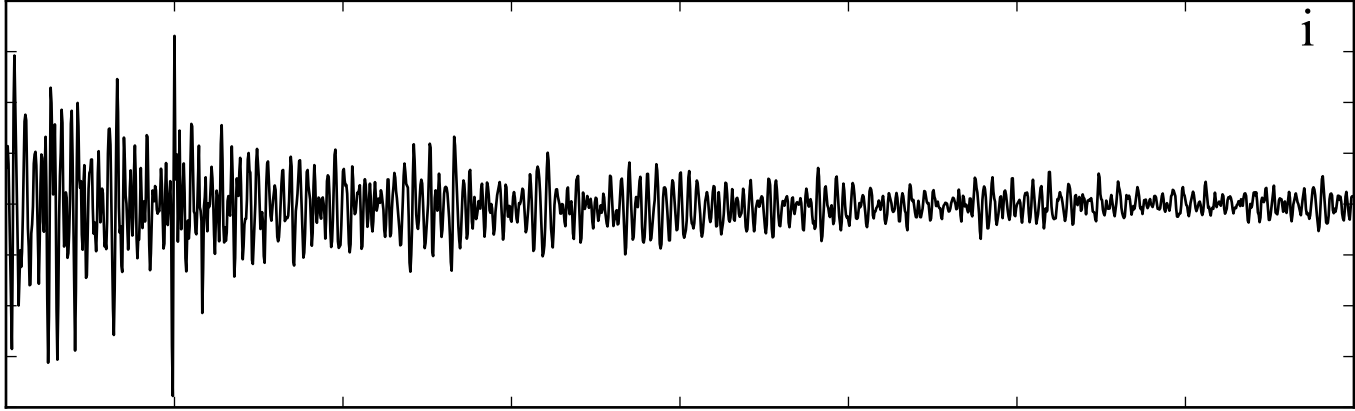
Time [s]

IU - ADK - - LHN $\Delta/Az/Baz = 2.8^\circ/75^\circ/258^\circ$ $Srp=0.70$
1997.351.04.33.51.203.IU.ADK..LHN.SAC (1997/12/17)
 ScS_2-ScS_1 travel time: 931.4 τ : 42.8 s
Centroid: 51.250 178.920 22.0 km Mw 6.6
 $Q = 178$ $t^* = 5.2$ s
Quality control: signal/noise ScS_1 : 10.74 ScS_2 3.66 Correlation : 0.906

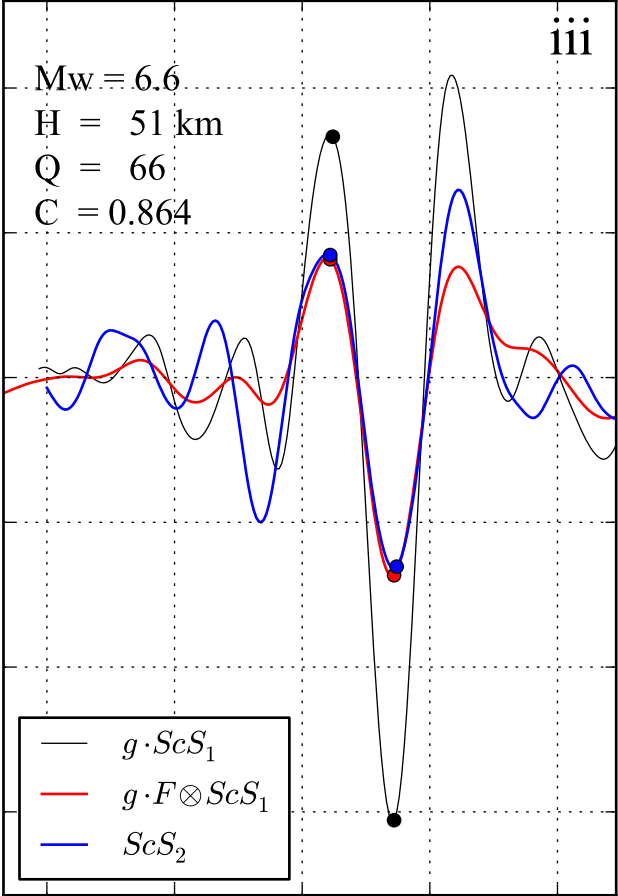
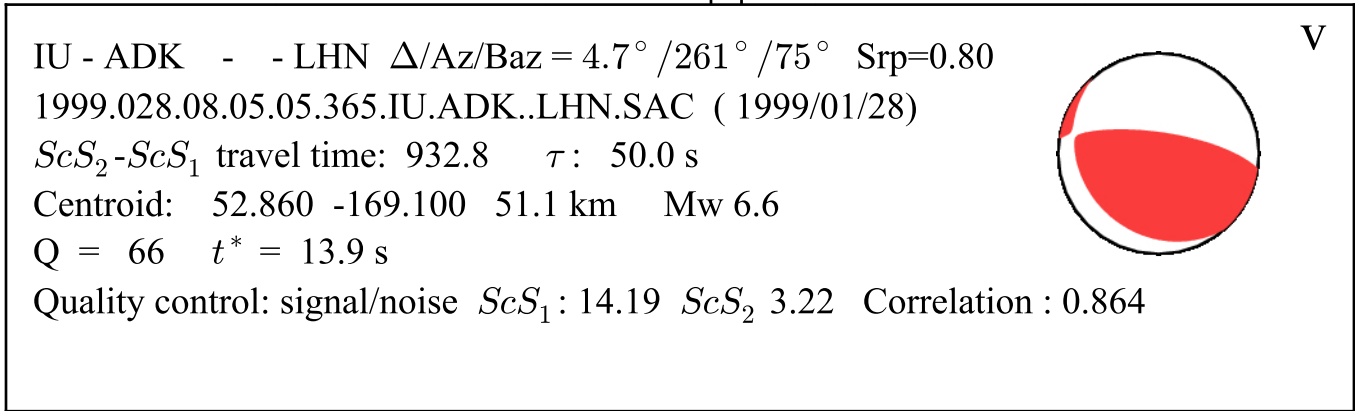


Time [s]

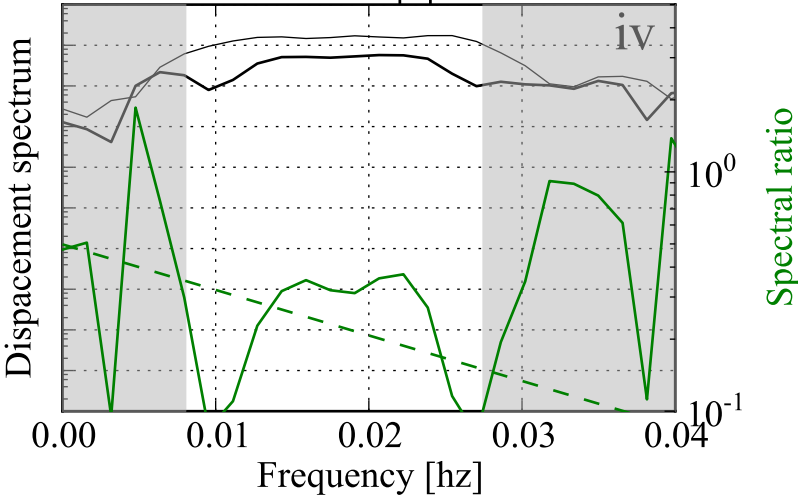


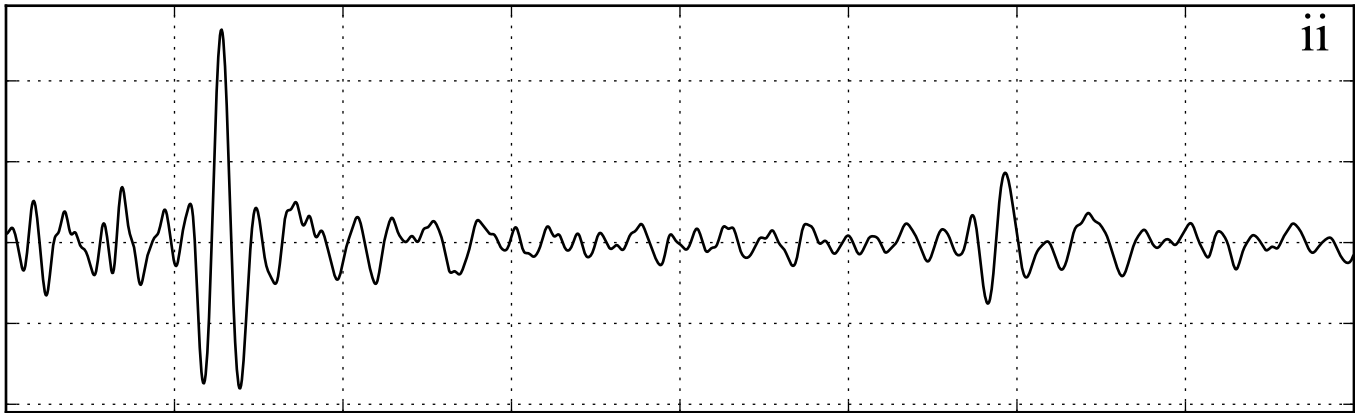
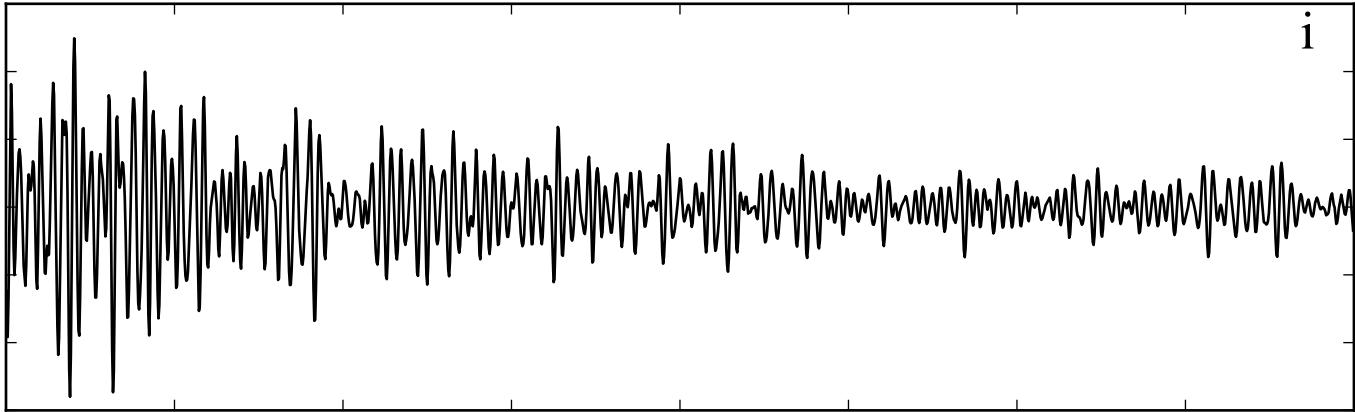


Time [s]

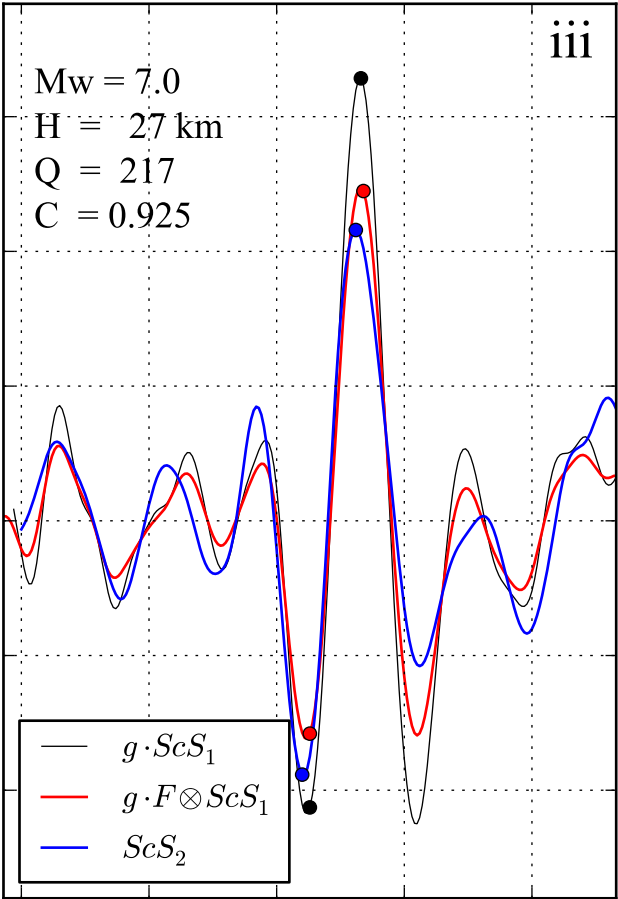
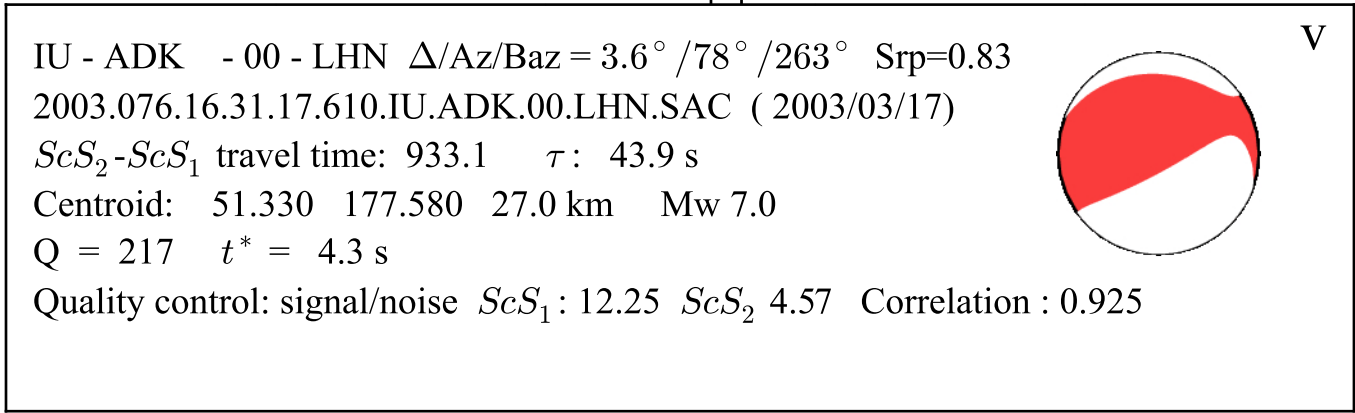


Time [s]

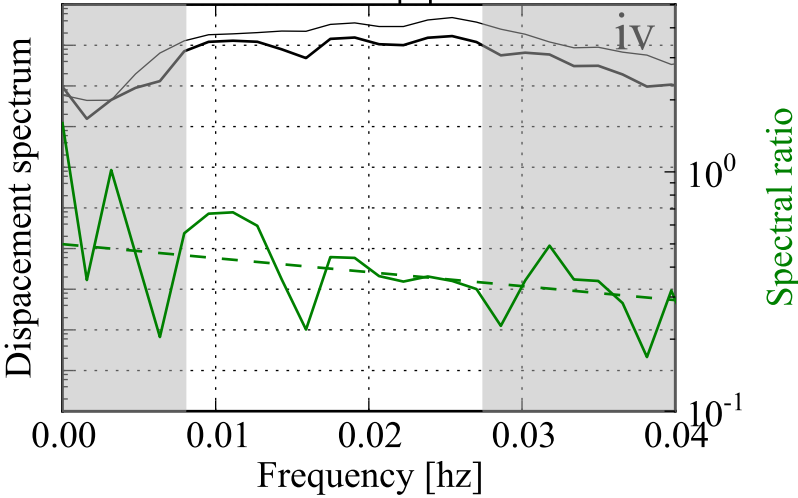


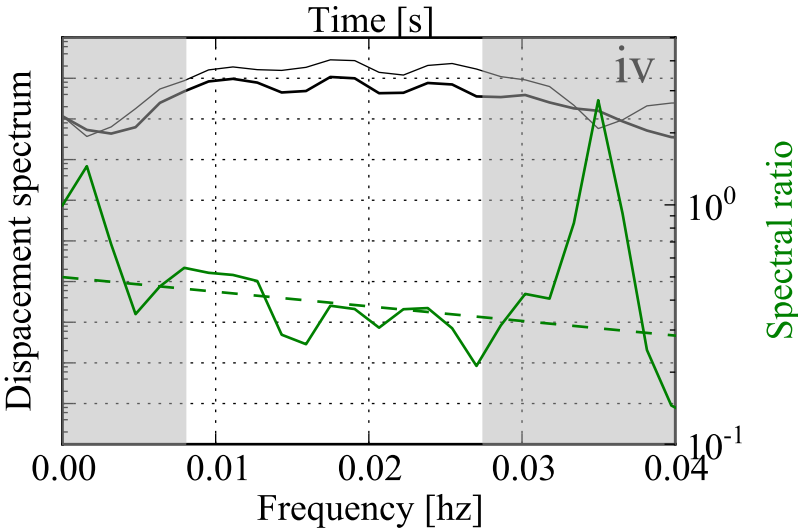
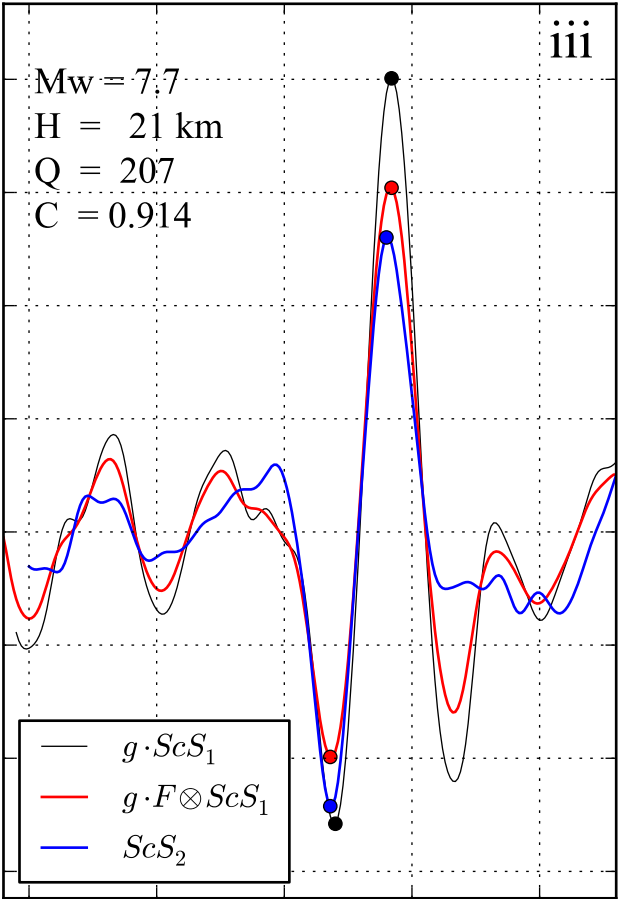
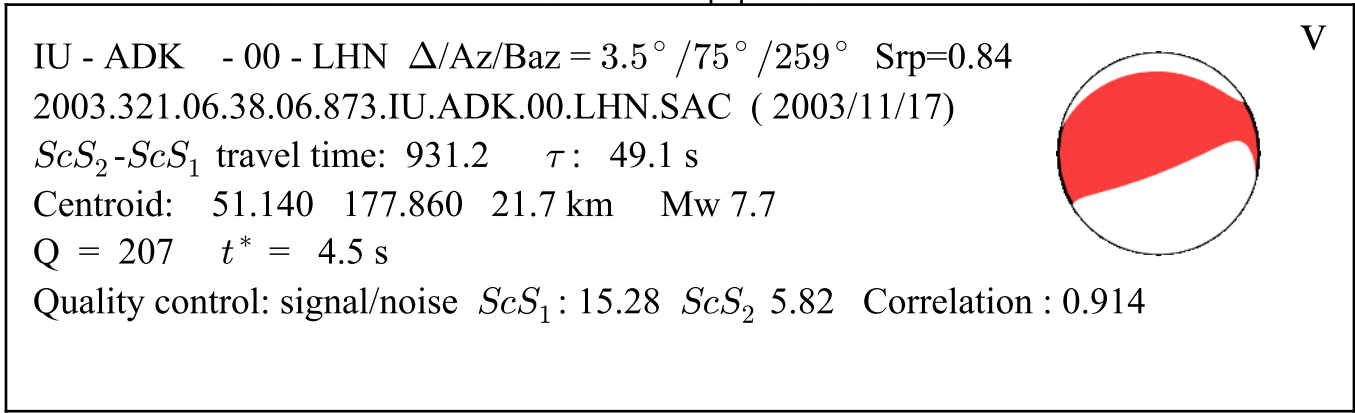
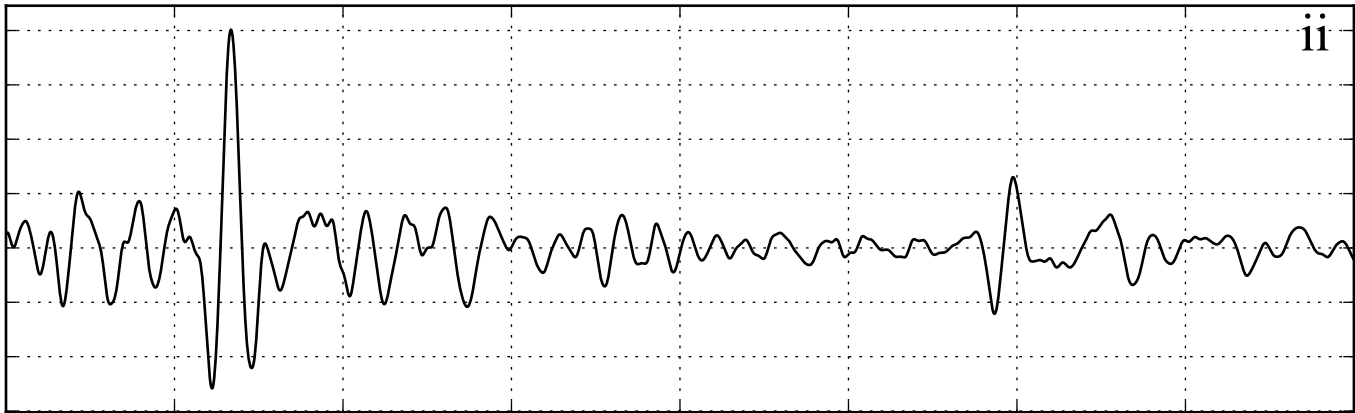
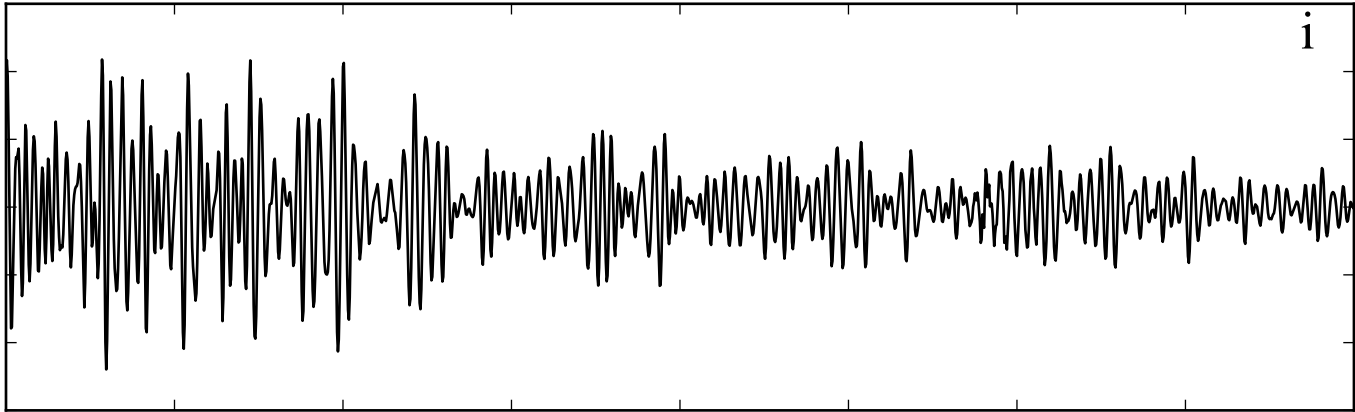


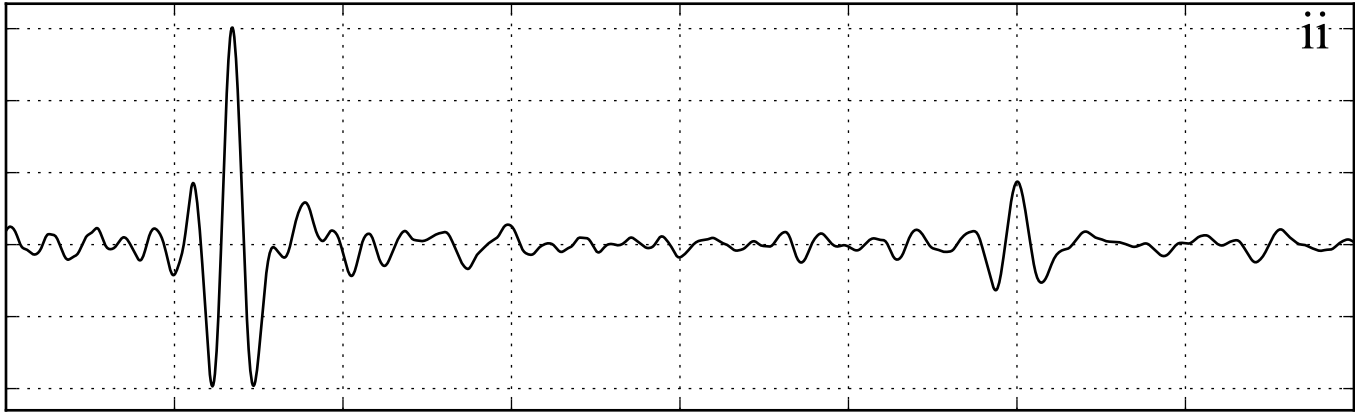
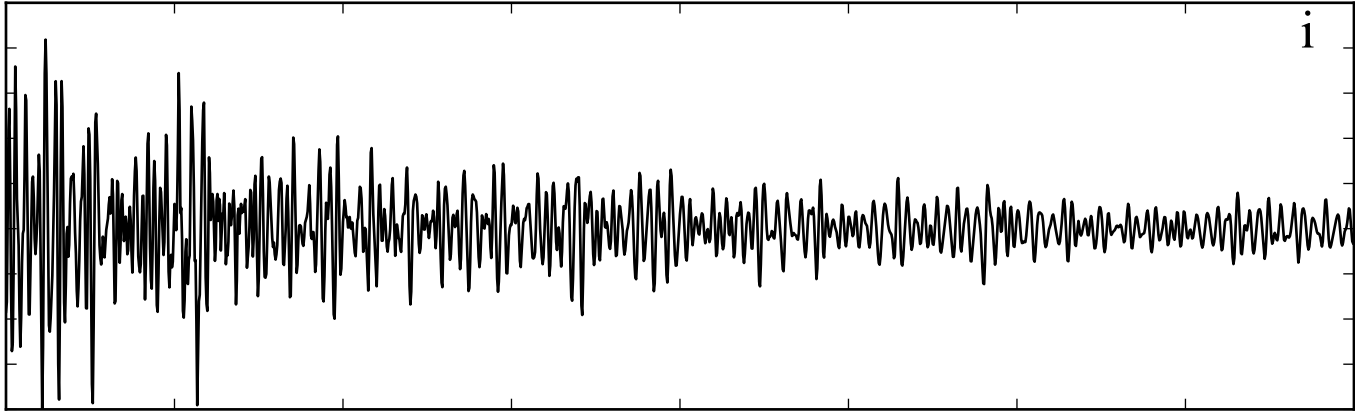
Time [s]



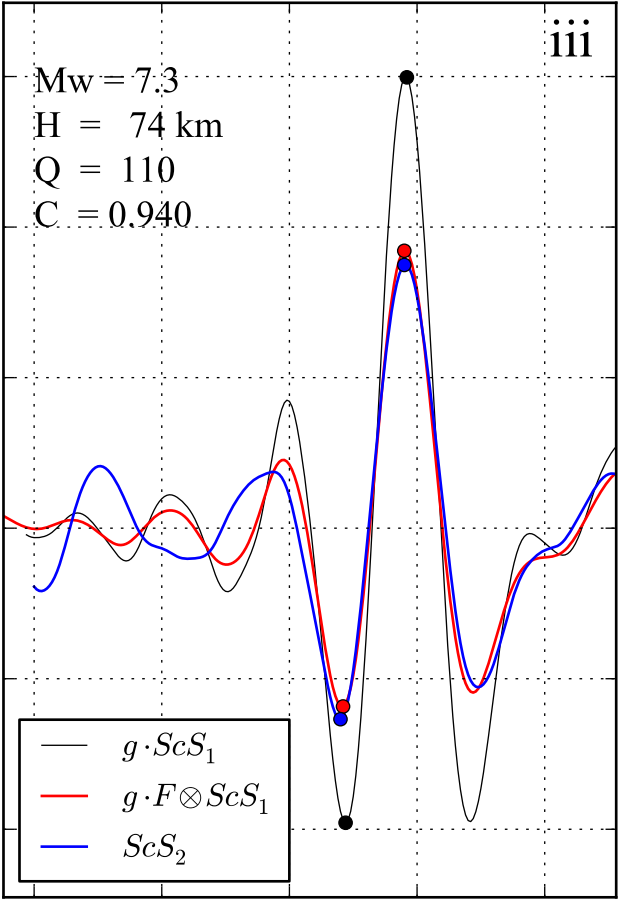
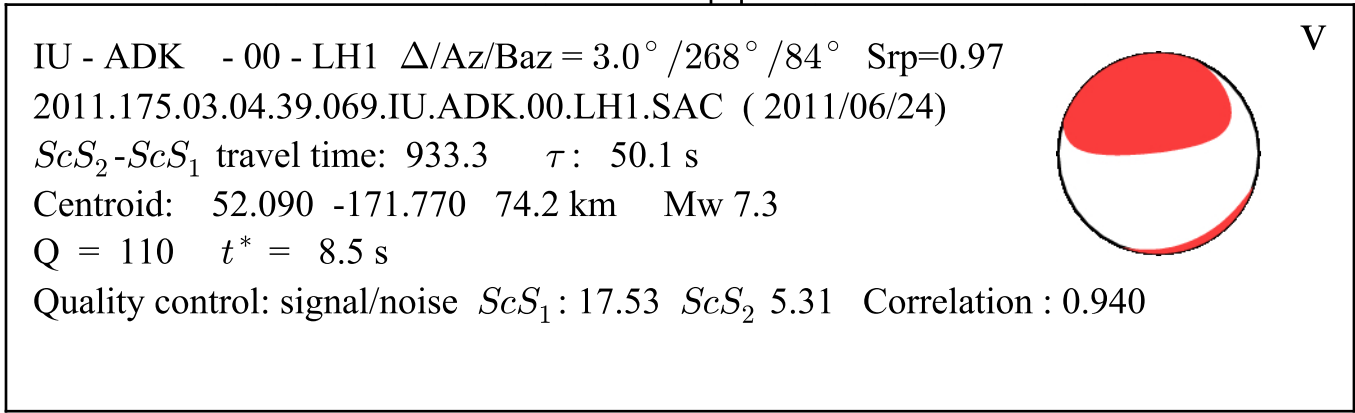
Time [s]



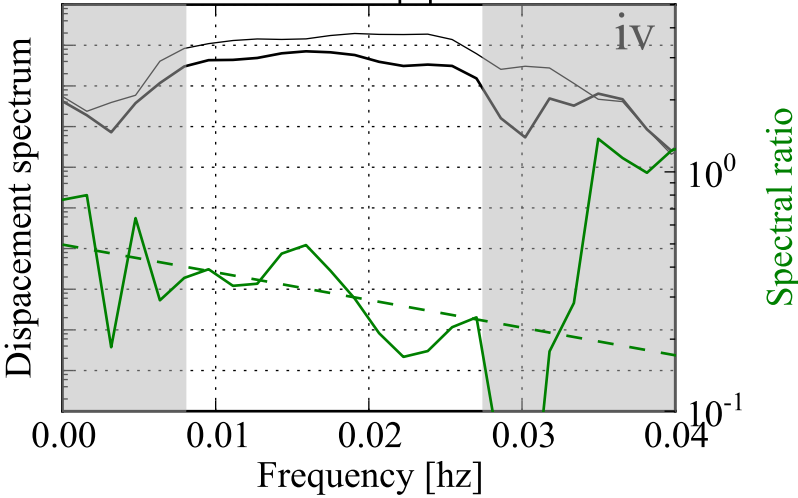


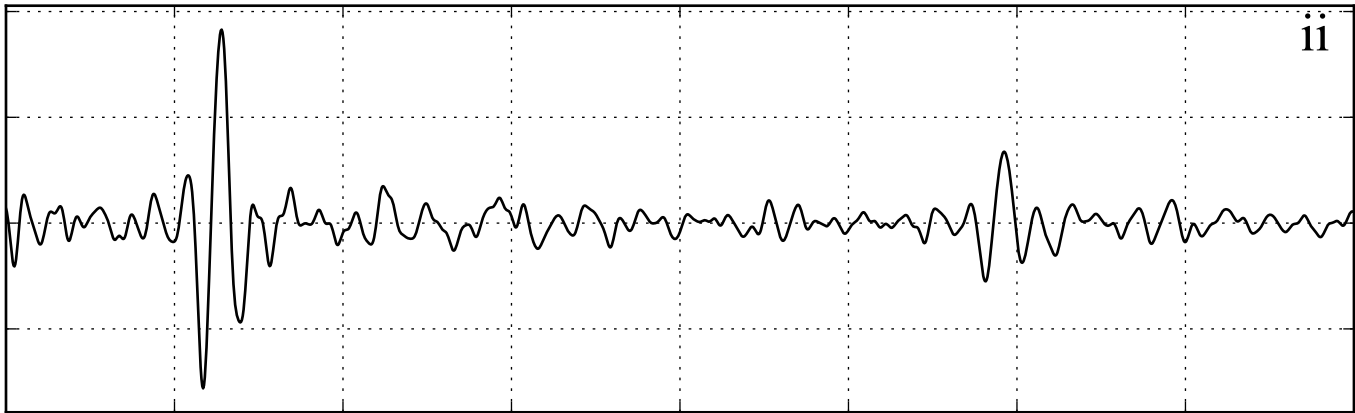
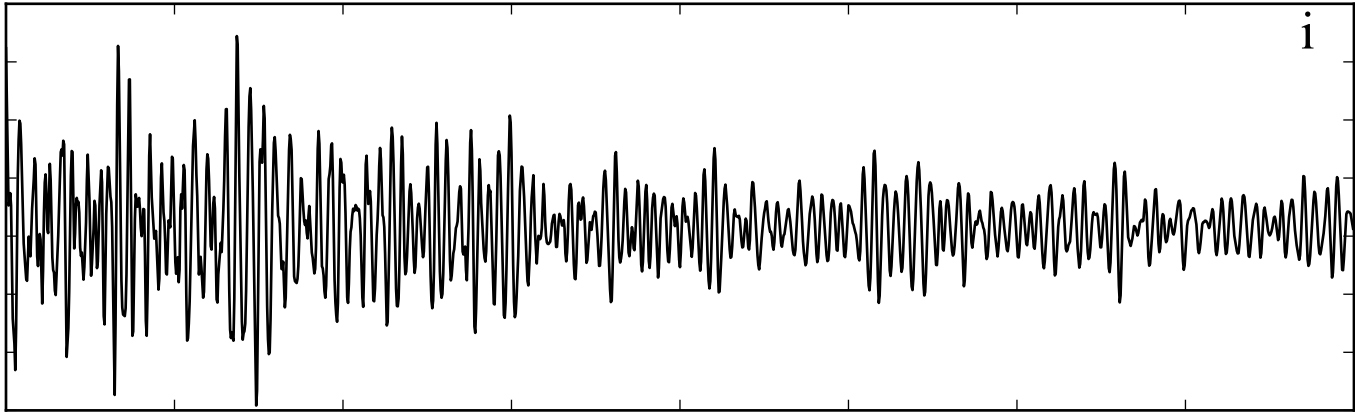


Time [s]



Time [s]

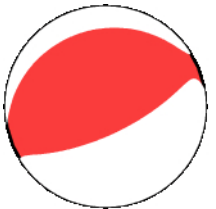


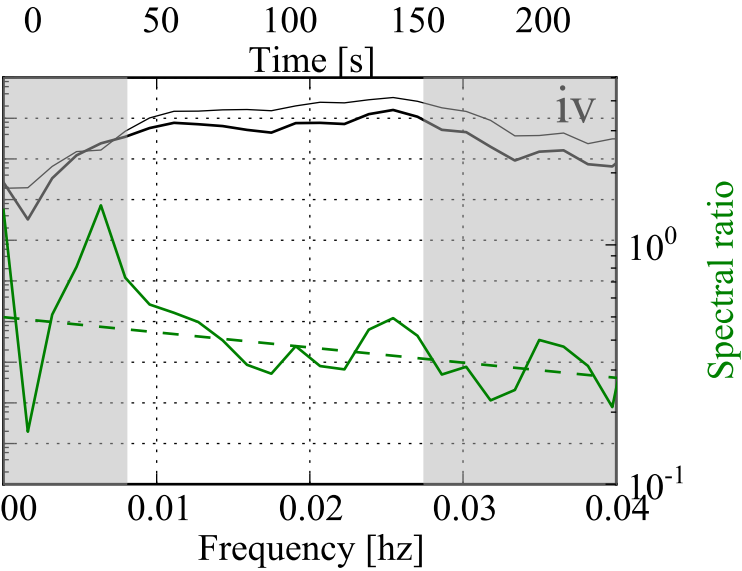
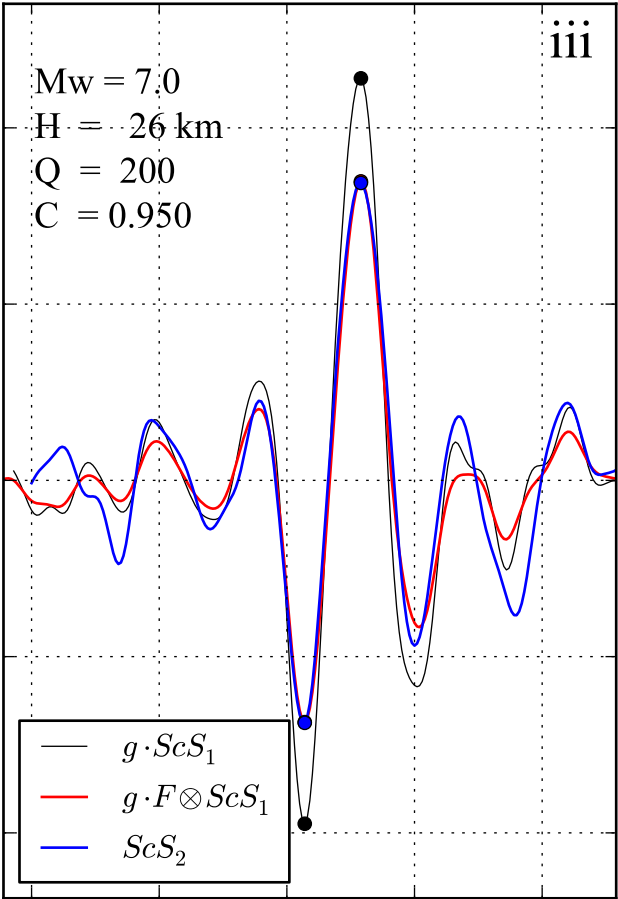


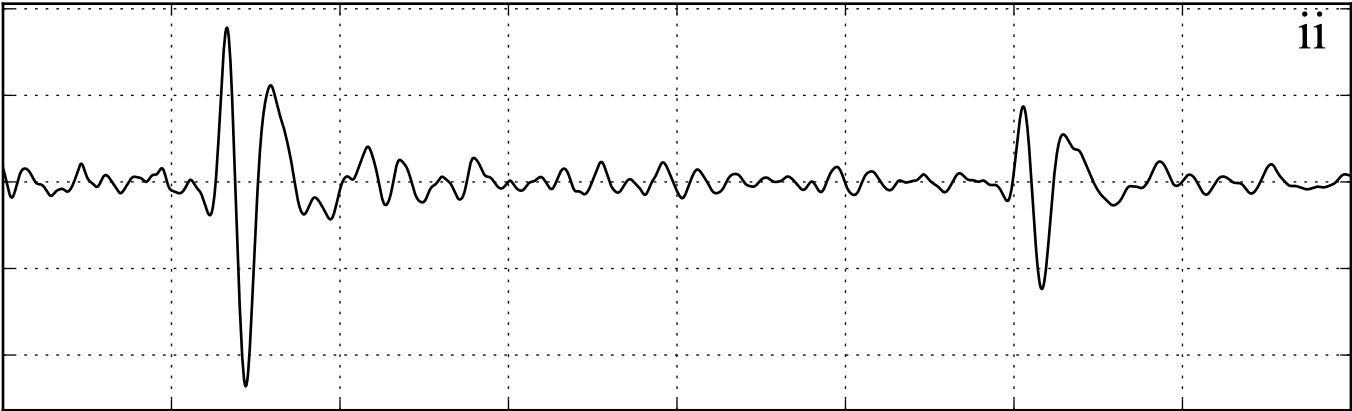
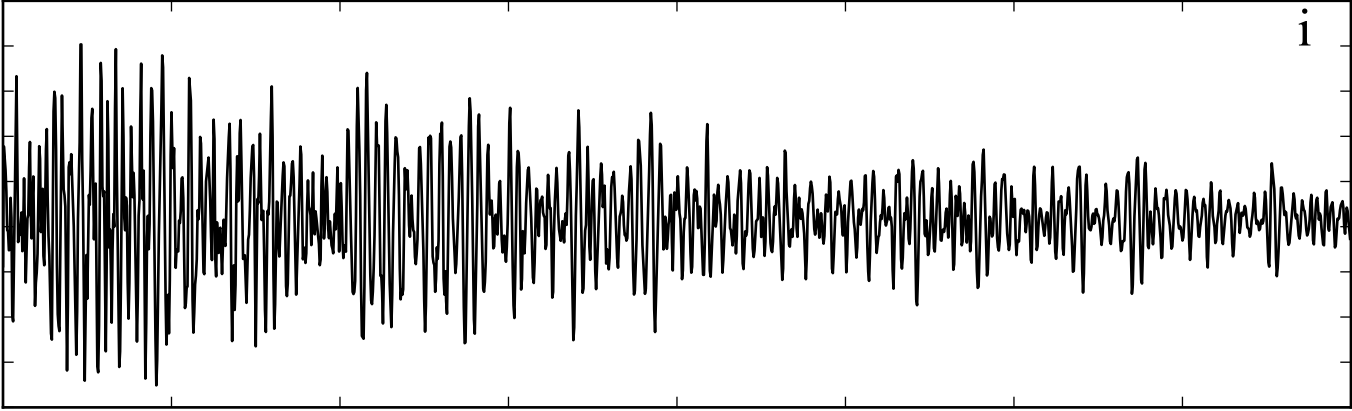
Time [s]

IU - ADK - 00 - LH1 $\Delta/Az/Baz = 1.1^\circ/295^\circ/113^\circ$ Srp=0.69
2013.242.16.20.02.069.IU.ADK.00.LH1.SAC (2013/08/30)
 ScS_2-ScS_1 travel time: 929.7 τ : 43.0 s
Centroid: 51.440 -175.120 26.7 km Mw 7.0
 $Q = 200$ $t^* = 4.6$ s
Quality control: signal/noise ScS_1 : 15.93 ScS_2 5.75 Correlation : 0.950

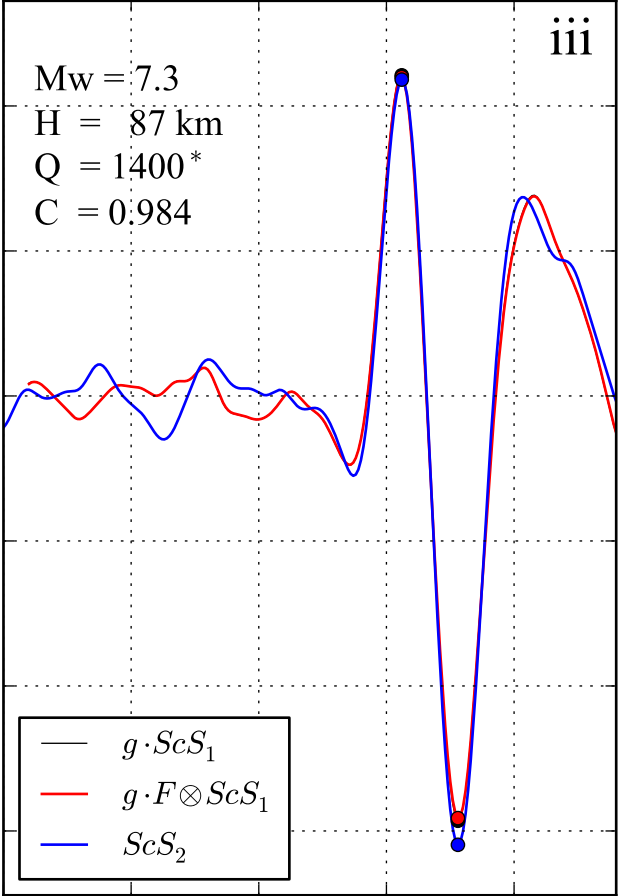
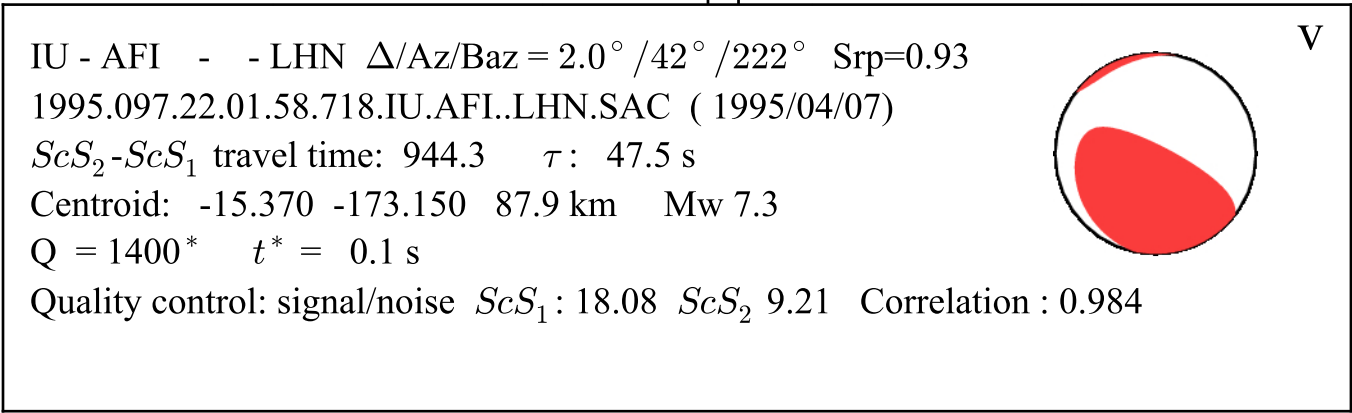
v



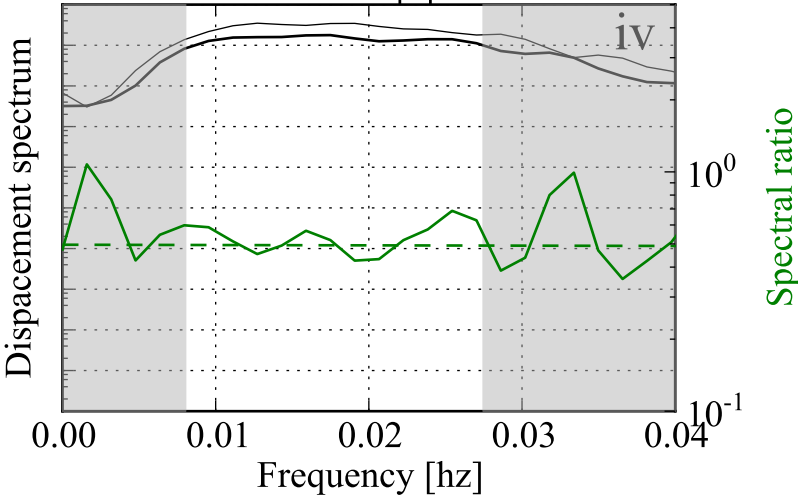


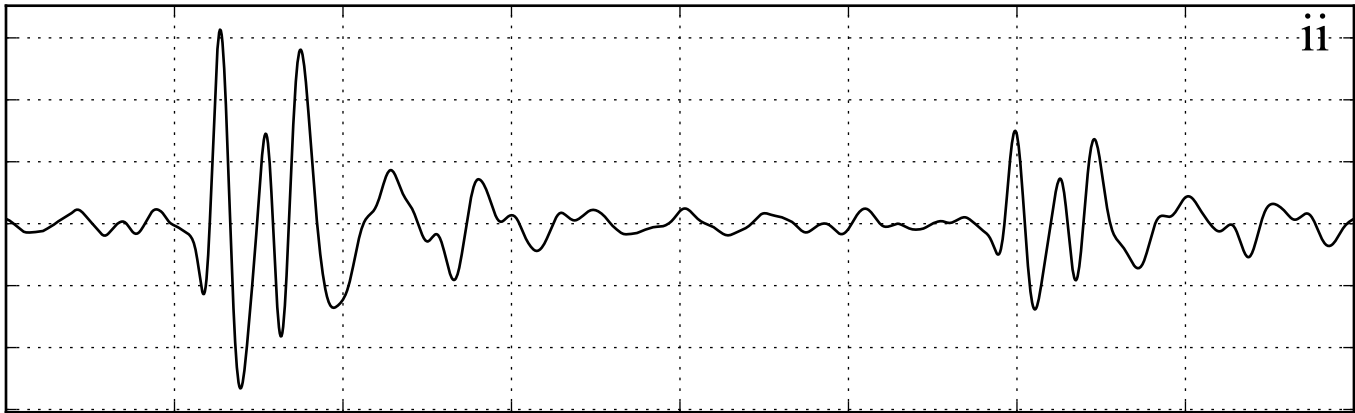
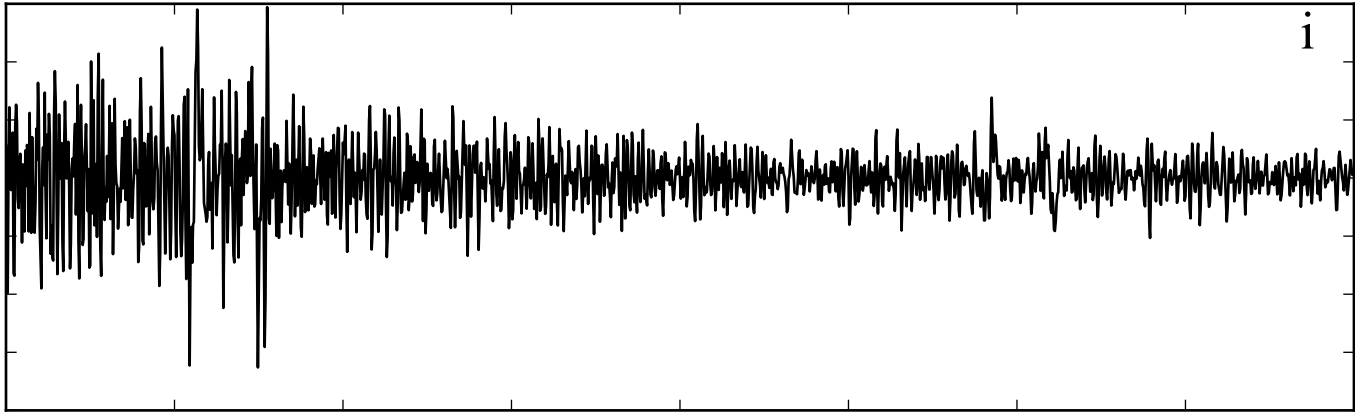


Time [s]

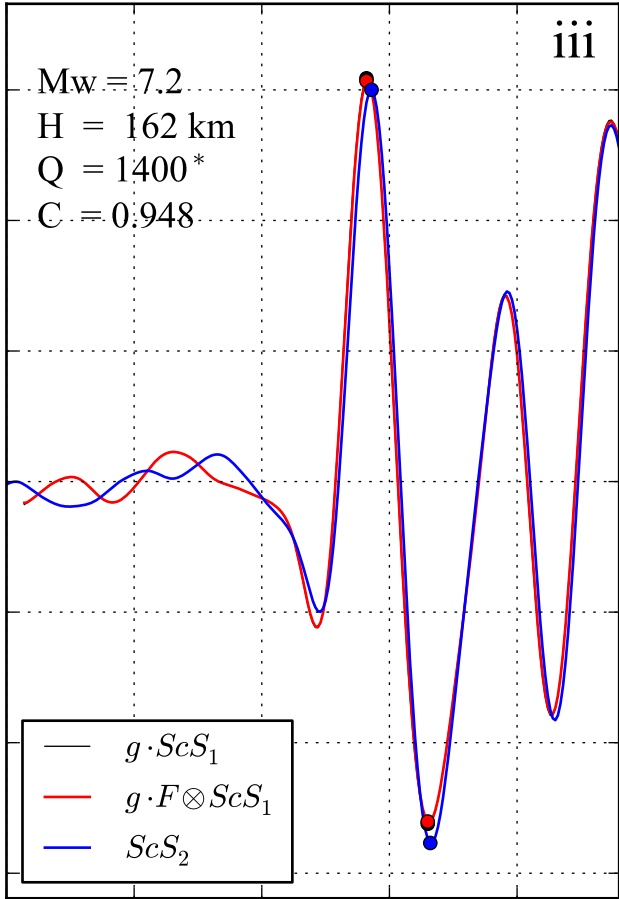
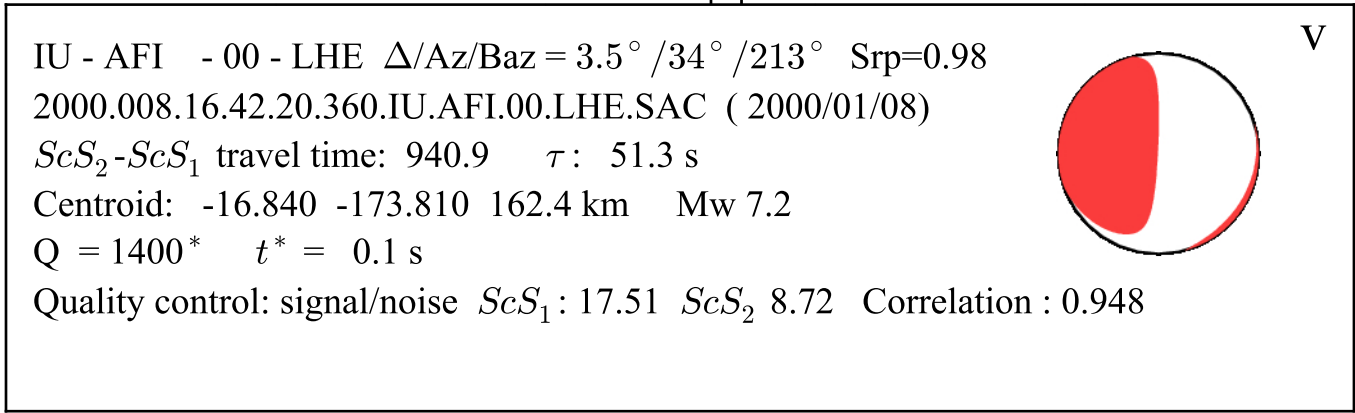


Time [s]

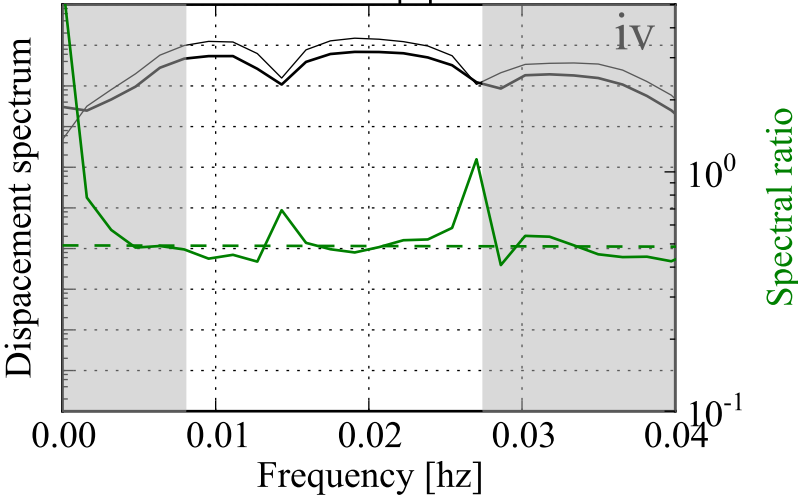


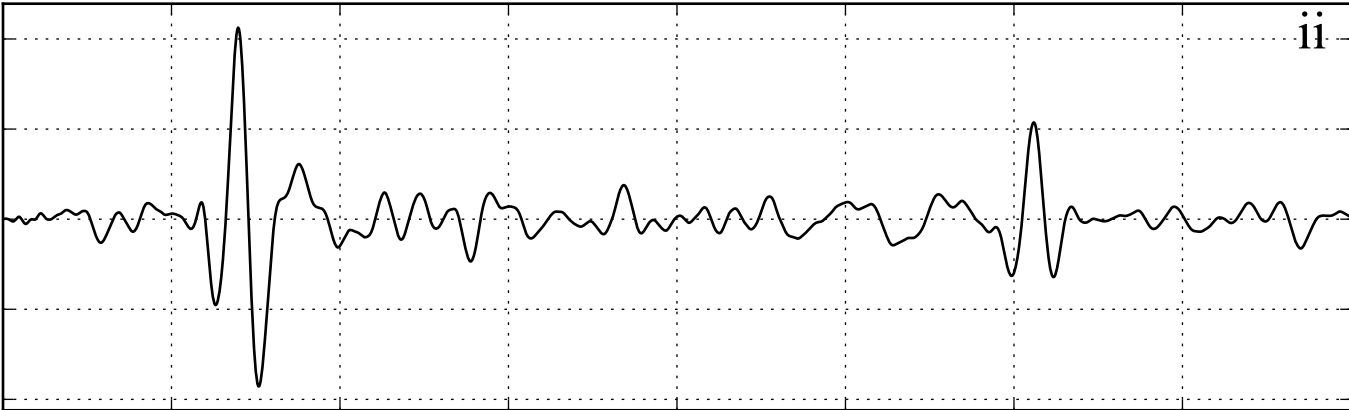
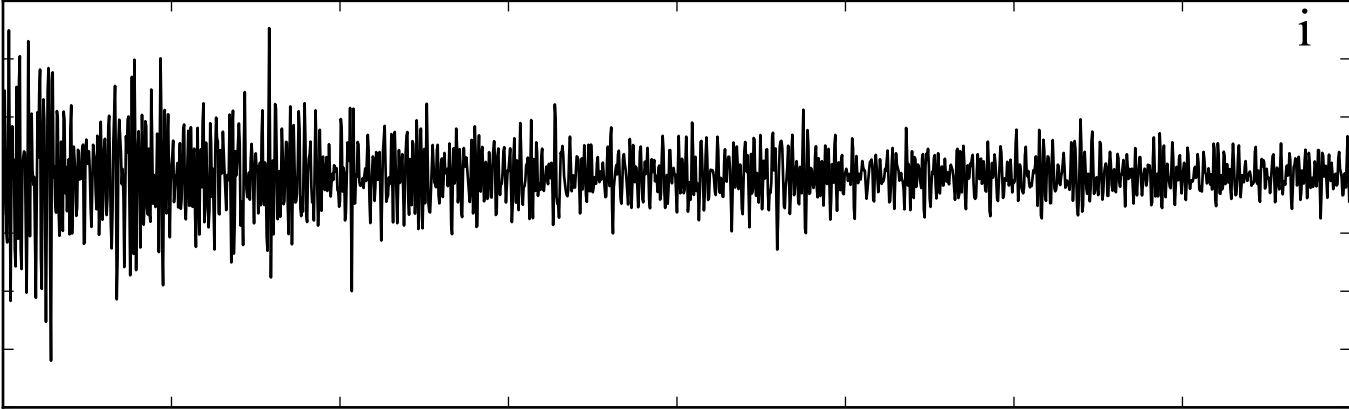


Time [s]

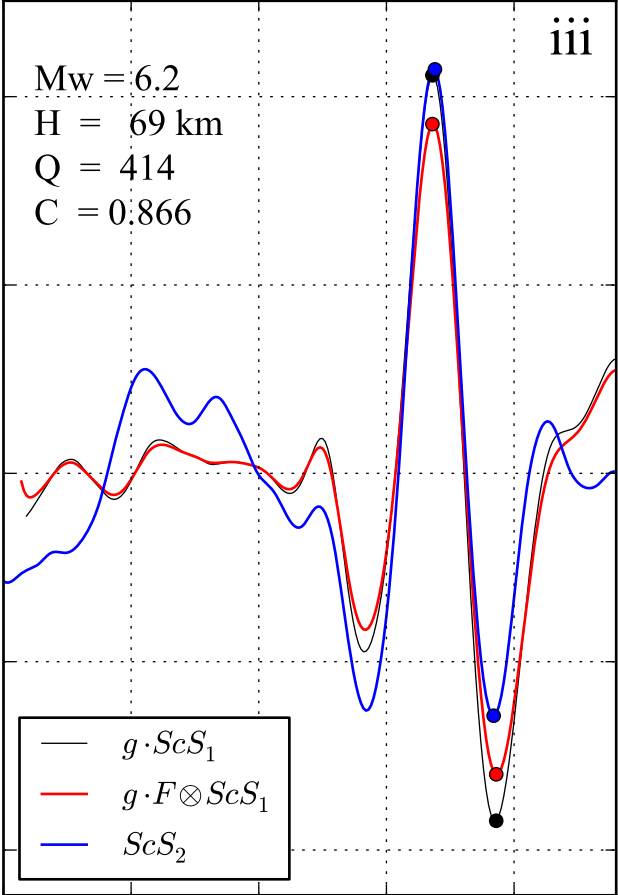
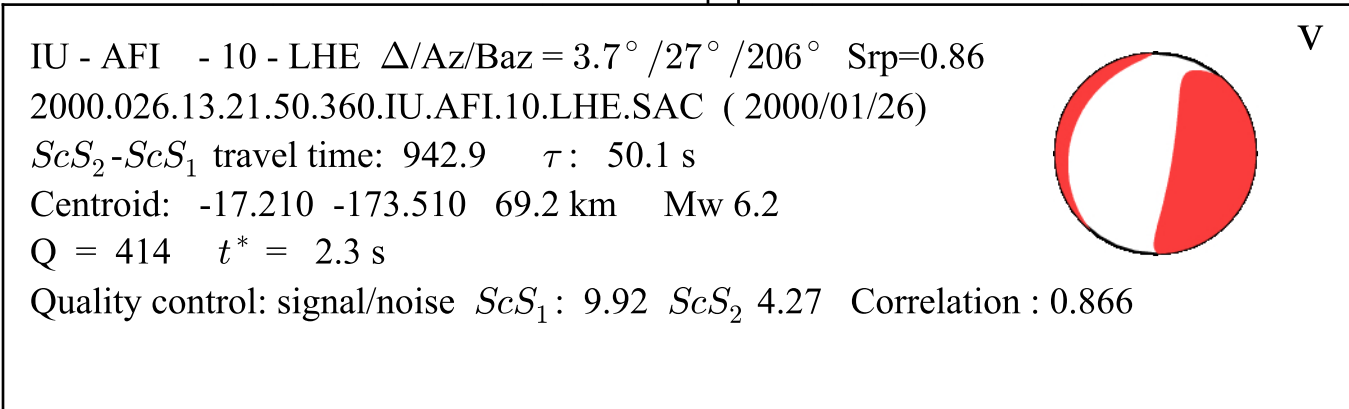


Time [s]

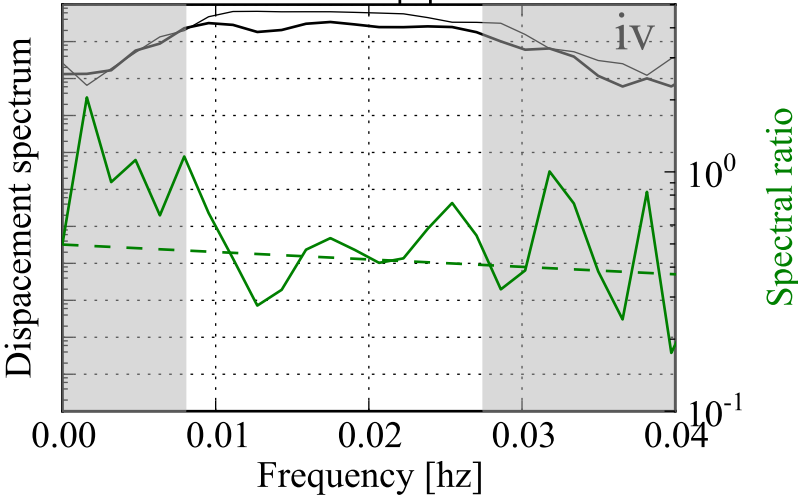


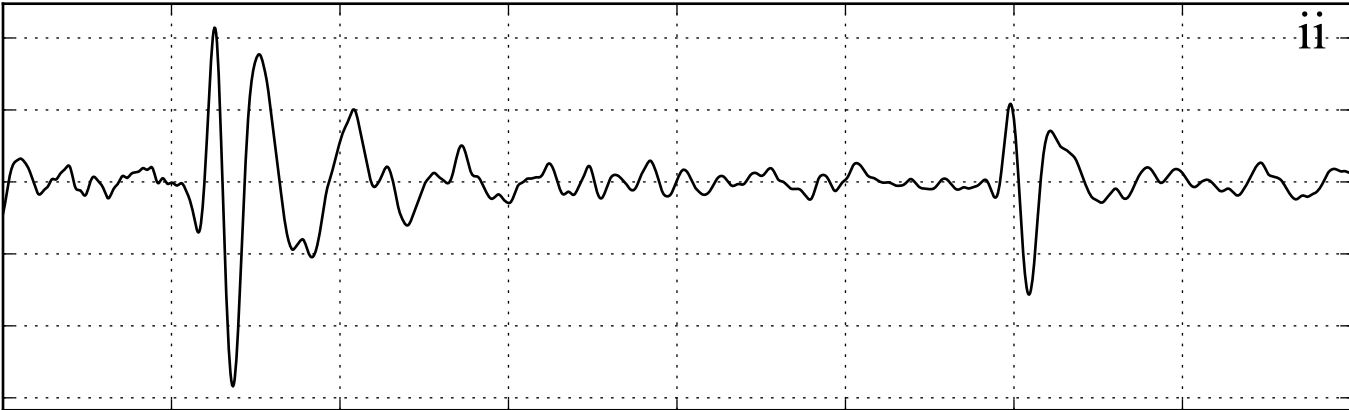
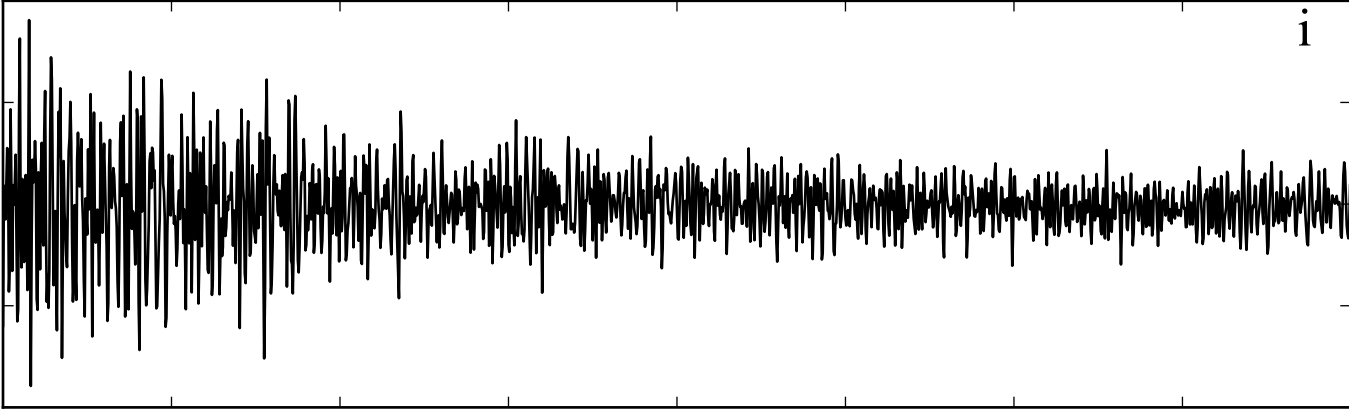


Time [s]

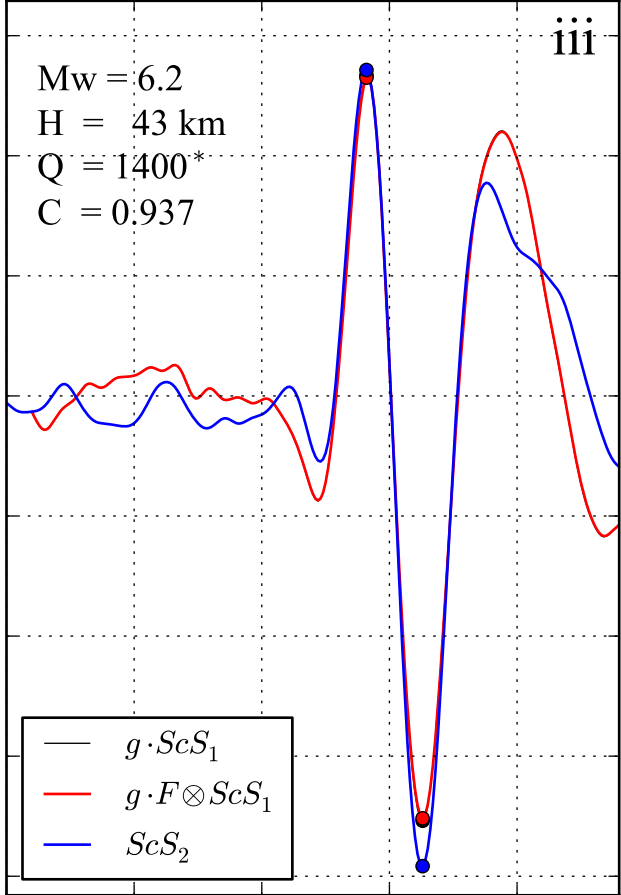
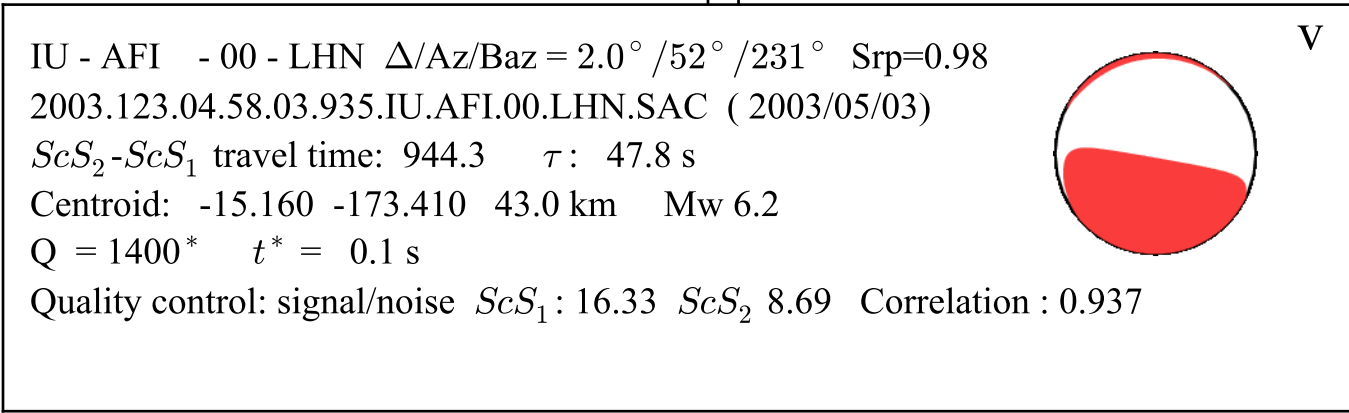


Time [s]

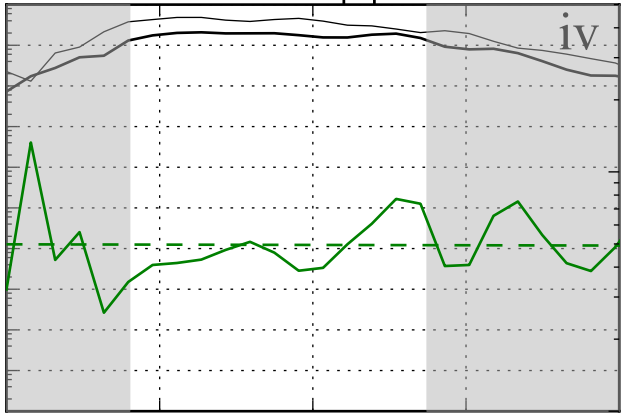




Time [s]

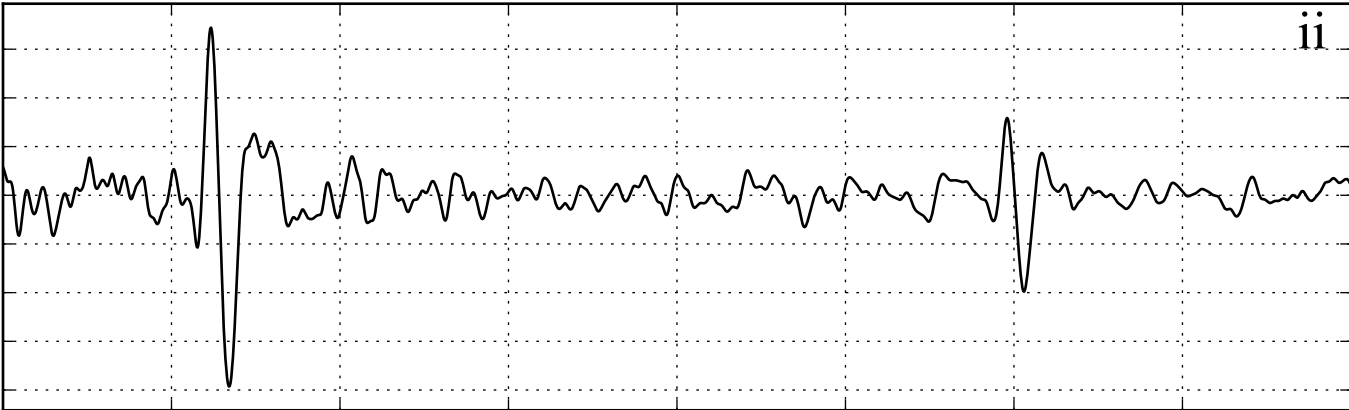
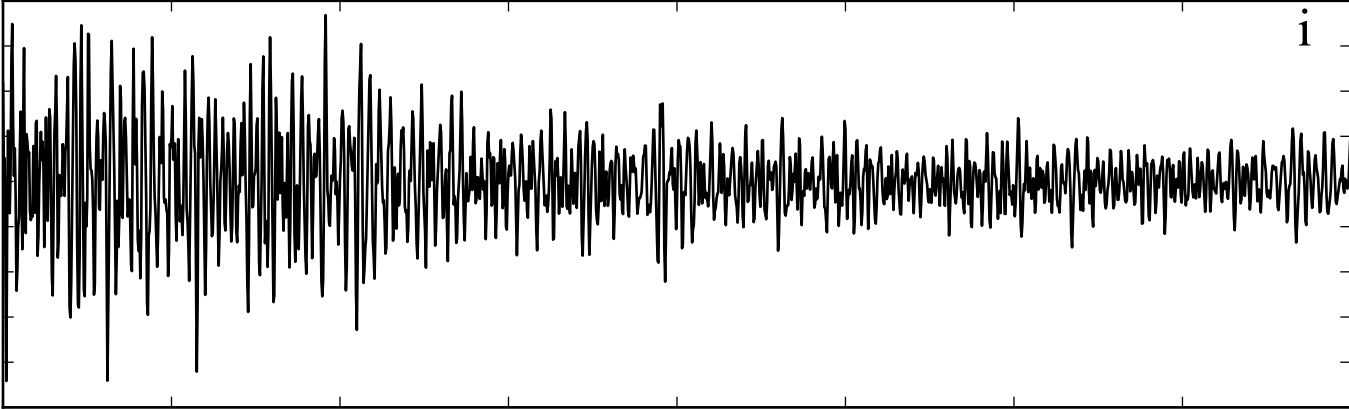


Time [s]

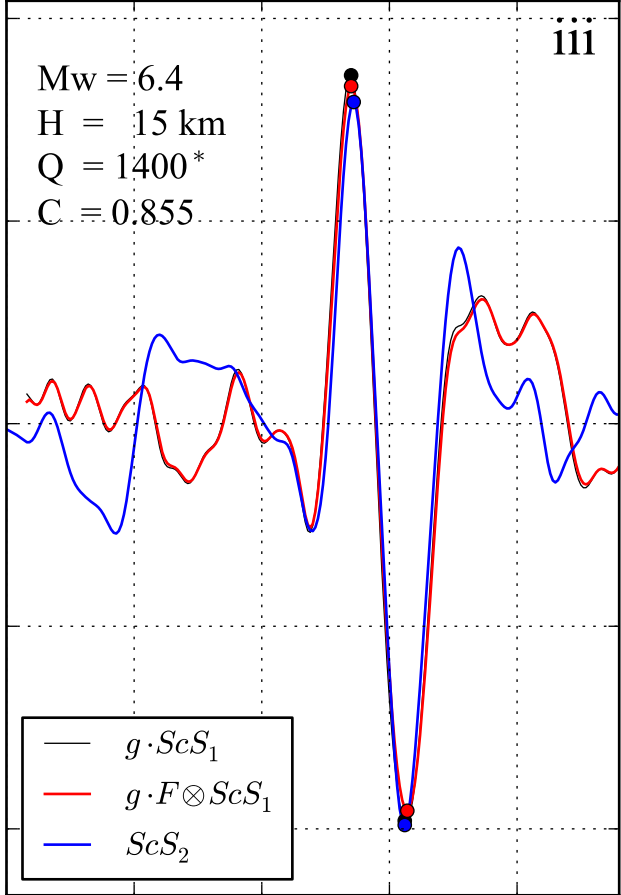
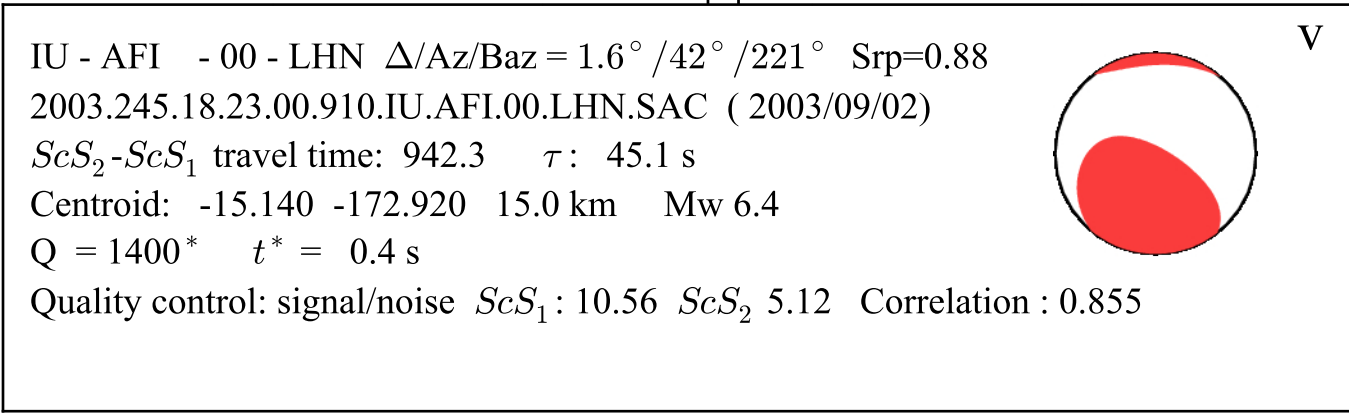


Frequency [hz]

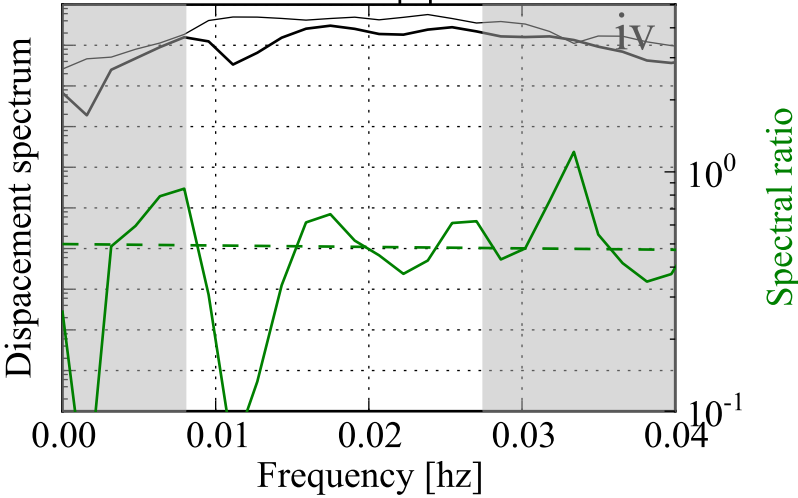
Spectral ratio

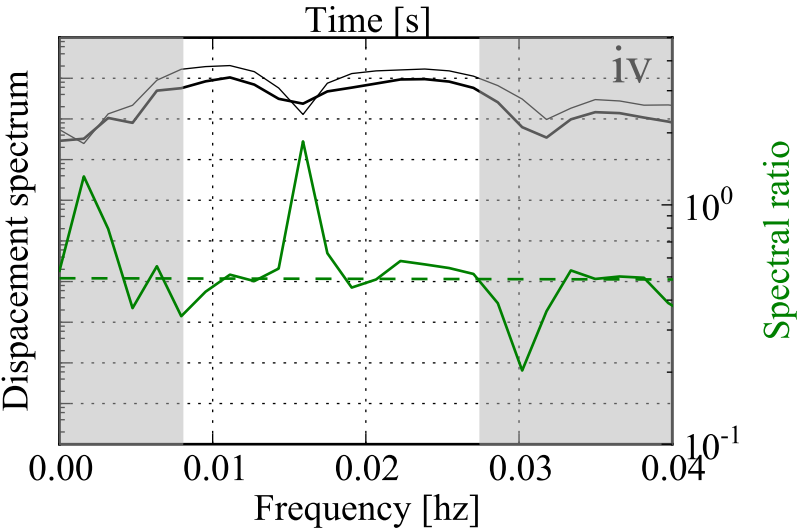
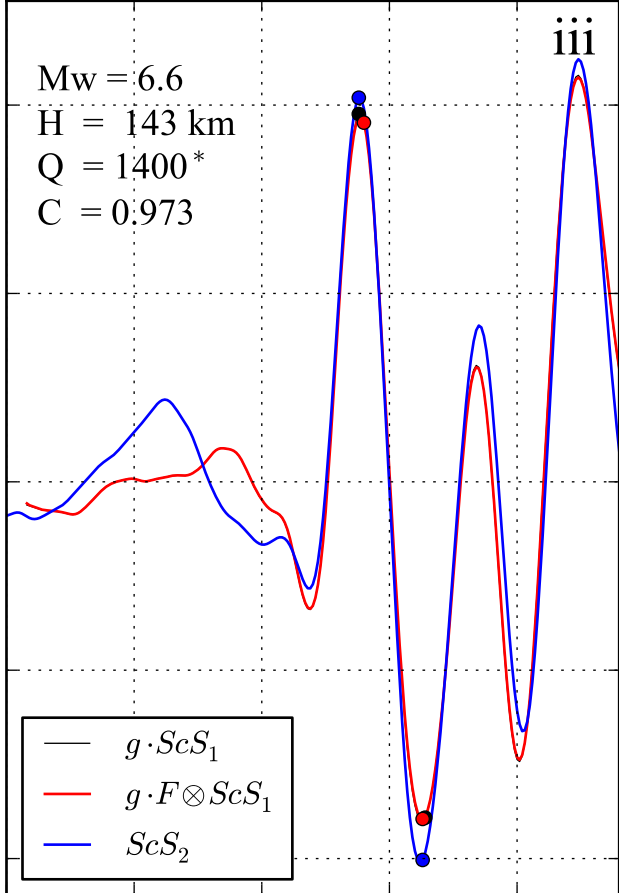
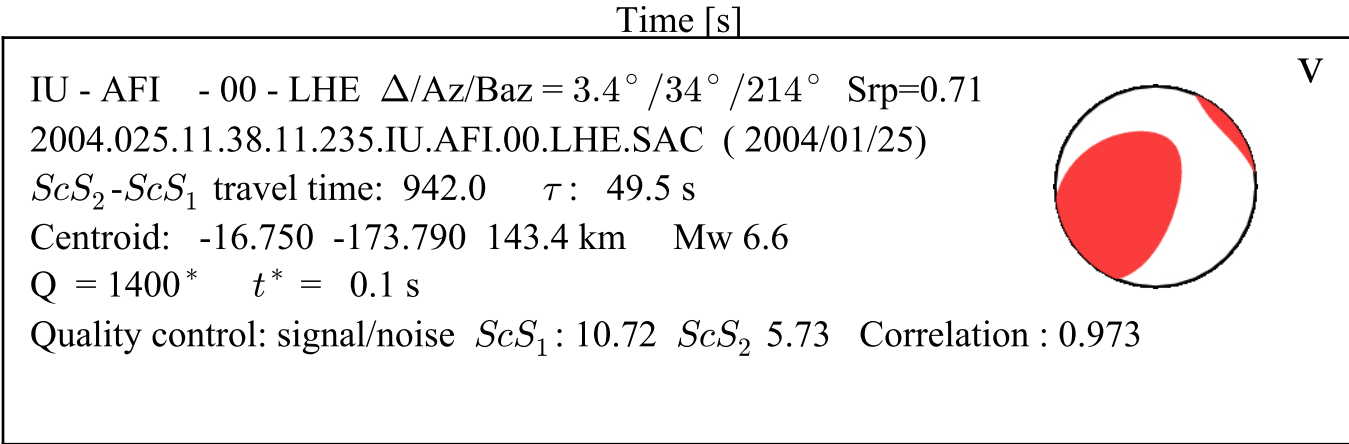
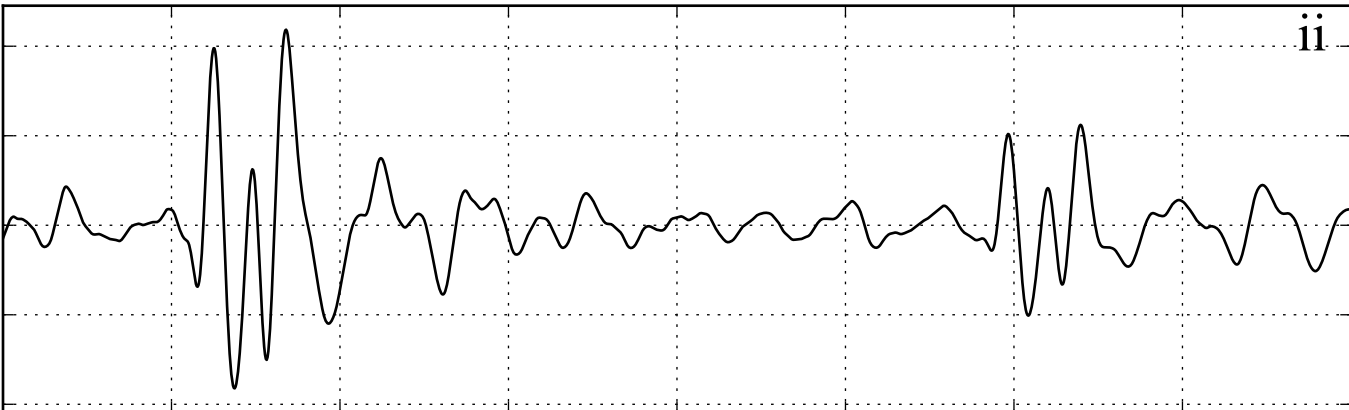
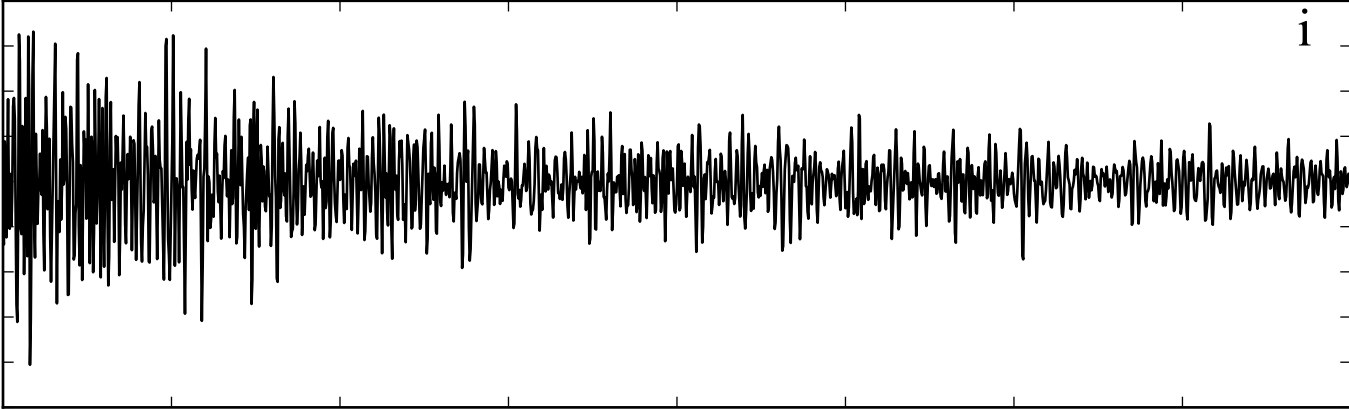


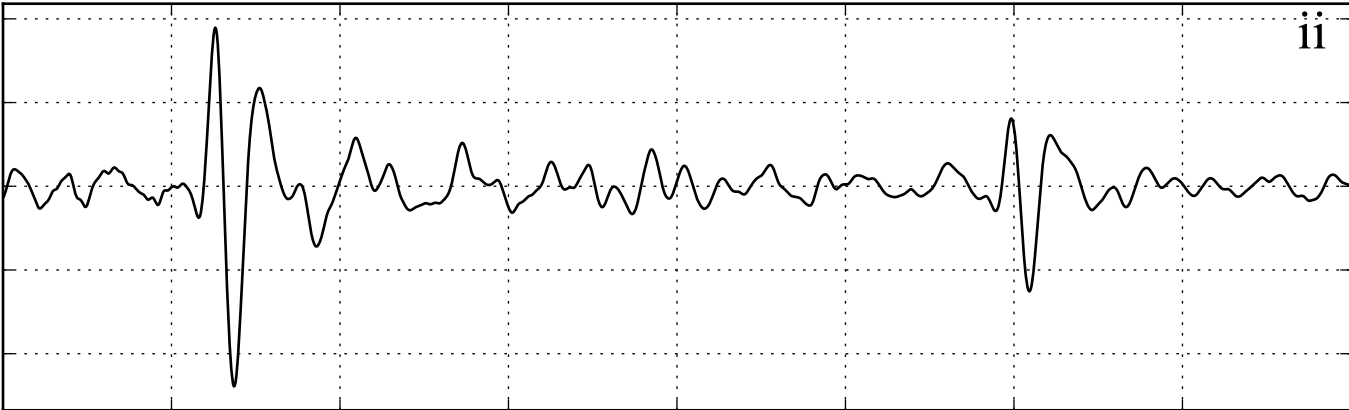
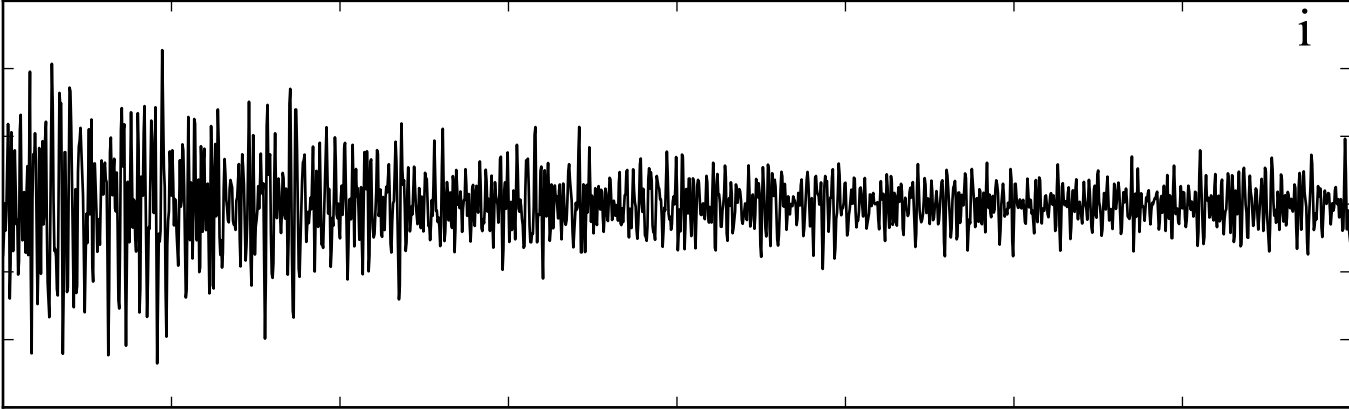
Time [s]



Time [s]

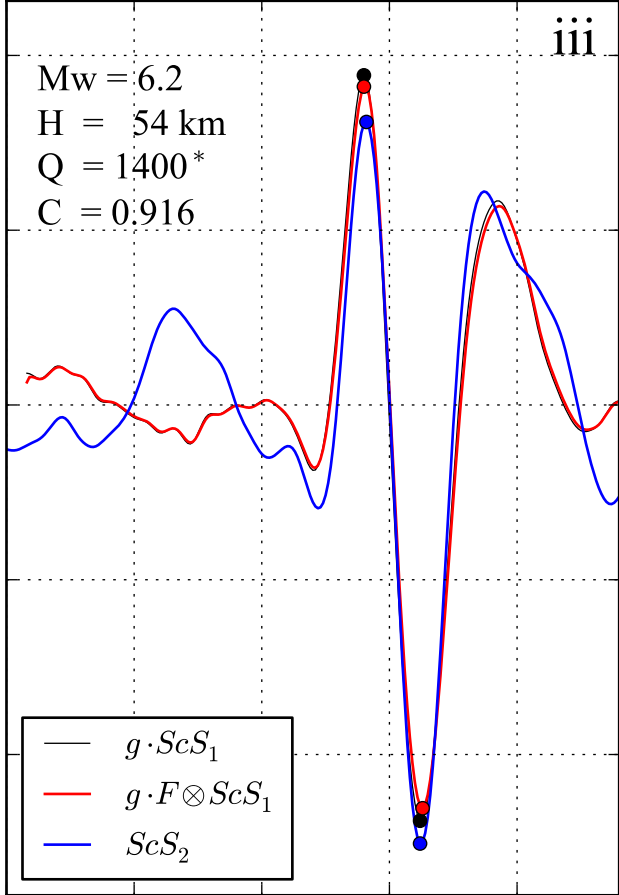
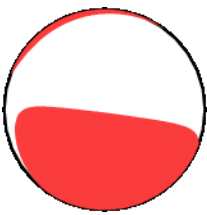




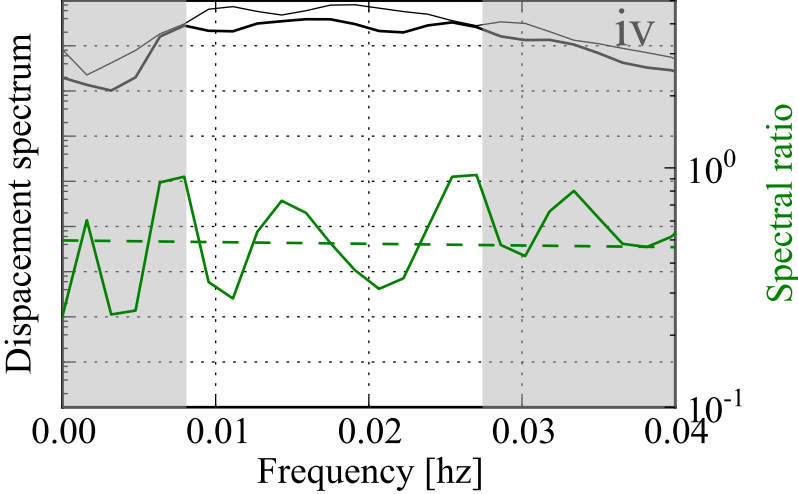


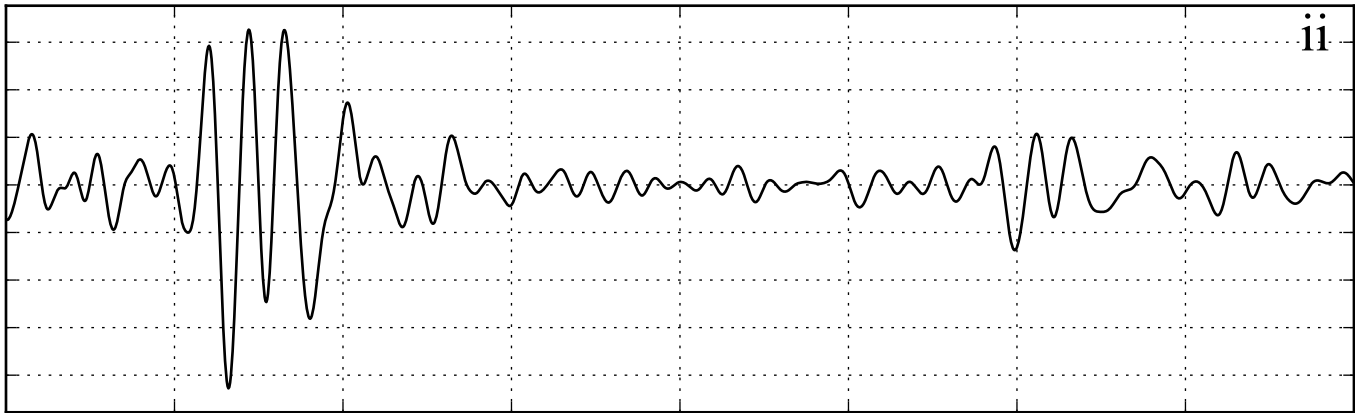
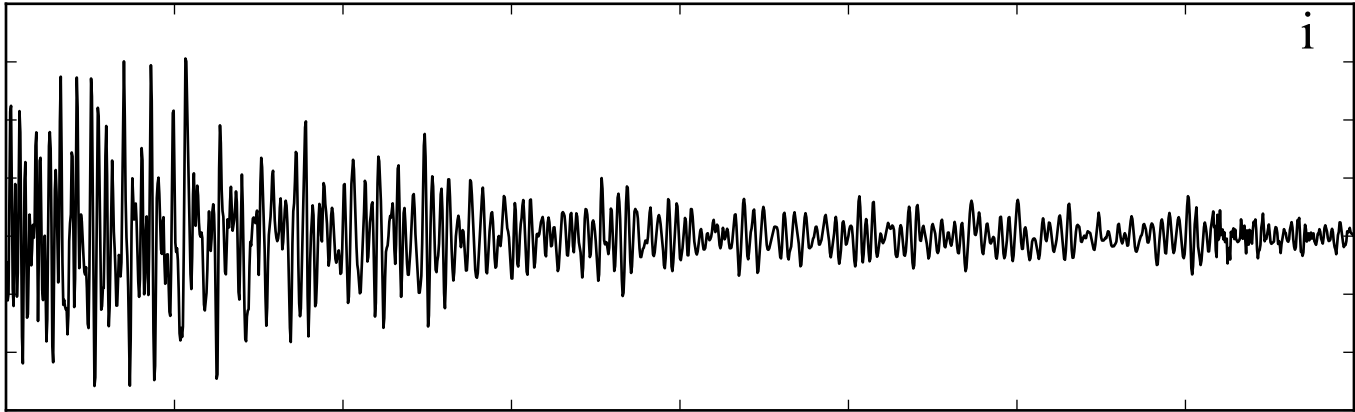
Time [s]

IU - AFI - 00 - LH1 $\Delta/Az/Baz = 2.0^\circ / 52^\circ / 231^\circ$ $Srp=0.99$
2011.248.09.47.01.069.IU.AFI.00.LH1.SAC (2011/09/05)
 ScS_2-ScS_1 travel time: 942.3 τ : 49.8 s
Centroid: -15.180 -173.440 54.3 km Mw 6.2
 $Q = 1400^*$ $t^* = 0.5$ s
Quality control: signal/noise ScS_1 : 12.20 ScS_2 5.88 Correlation : 0.916



Time [s]

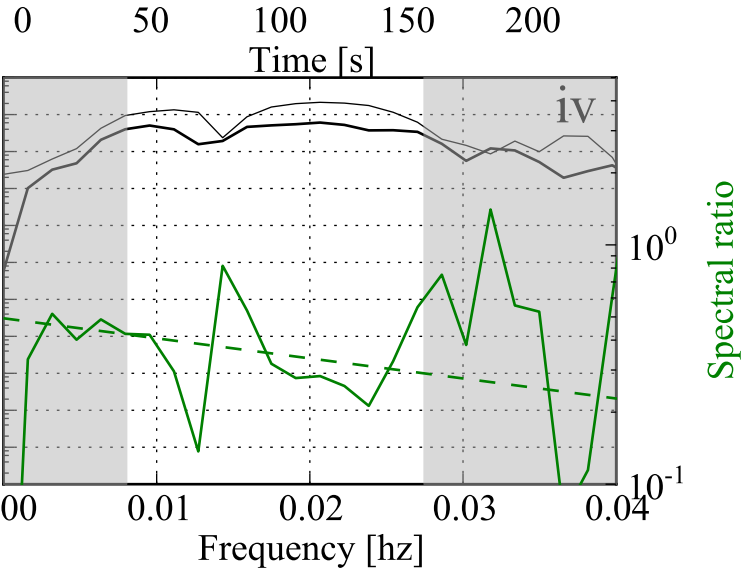
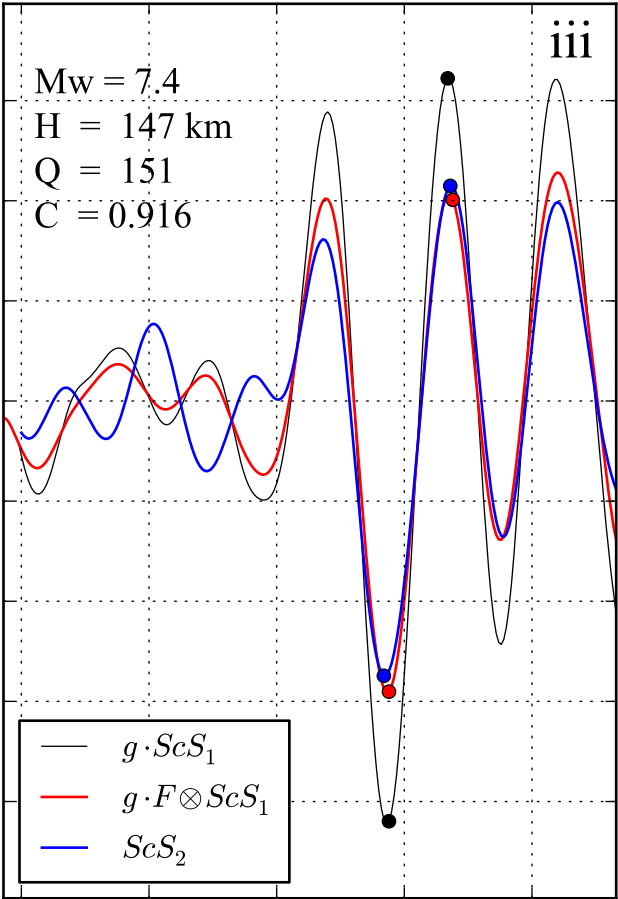



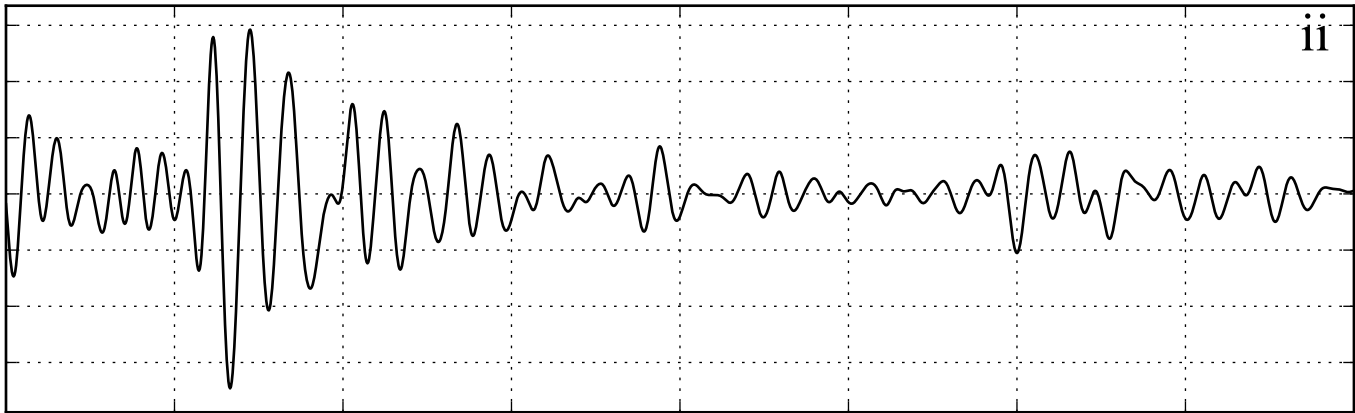
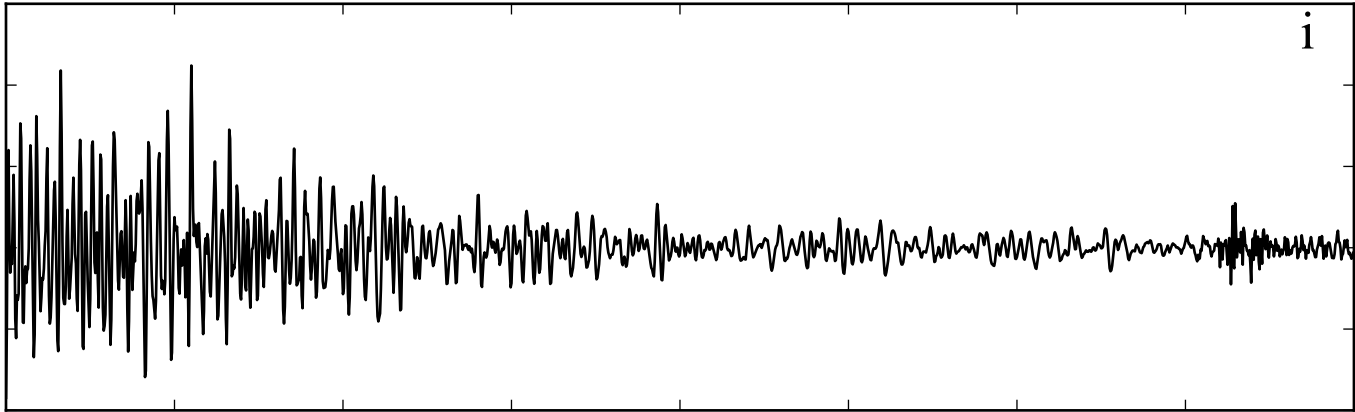


Time [s]

CU - ANWB - - LHE $\Delta/Az/Baz = 2.6^\circ/352^\circ/172^\circ$ $Srp=0.84$
2007.333.18.55.19.000.CU.ANWB..LHE.SAC (2007/11/29)
 ScS_2-ScS_1 travel time: 933.2 τ : 48.4 s
Centroid: 15.060 -61.410 147.9 km Mw 7.4
 $Q = 151$ $t^* = 6.1$ s
Quality control: signal/noise ScS_1 : 14.69 ScS_2 4.78 Correlation : 0.916

v




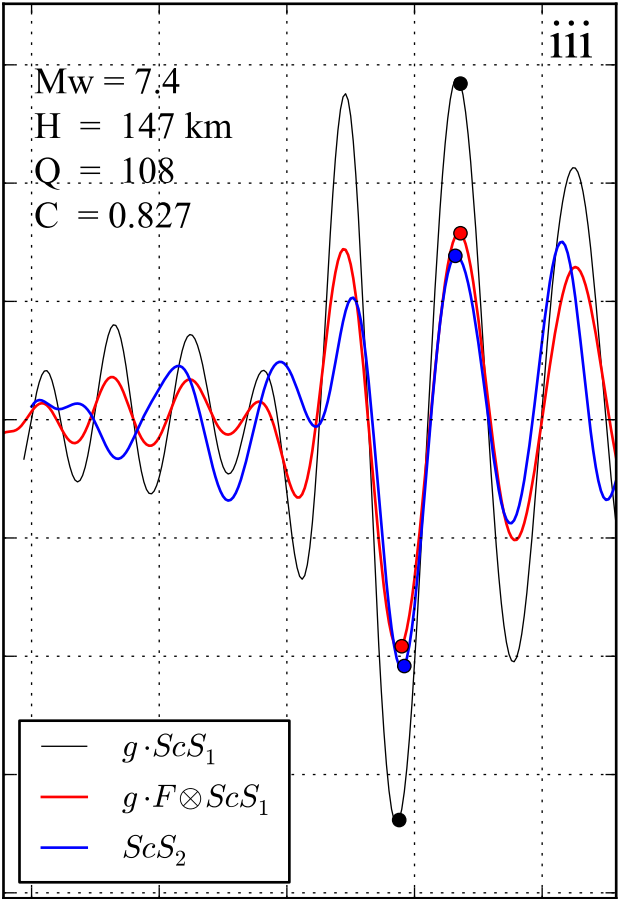


Time [s]

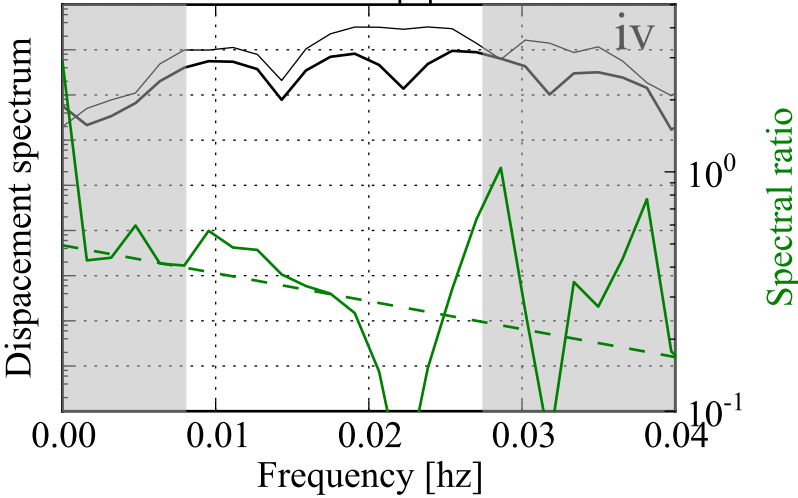
CU - BBGH - - LHE $\Delta/Az/Baz = 2.6^\circ/136^\circ/316^\circ$ $Srp=0.84$
2007.333.18.55.19.999.CU.BBGH..LHE.SAC (2007/11/29)
 ScS_2 - ScS_1 travel time: 931.1 τ : 42.3 s
Centroid: 15.060 -61.410 147.9 km Mw 7.4
 $Q = 108$ $t^* = 8.6$ s
Quality control: signal/noise ScS_1 : 13.05 ScS_2 3.59 Correlation : 0.827

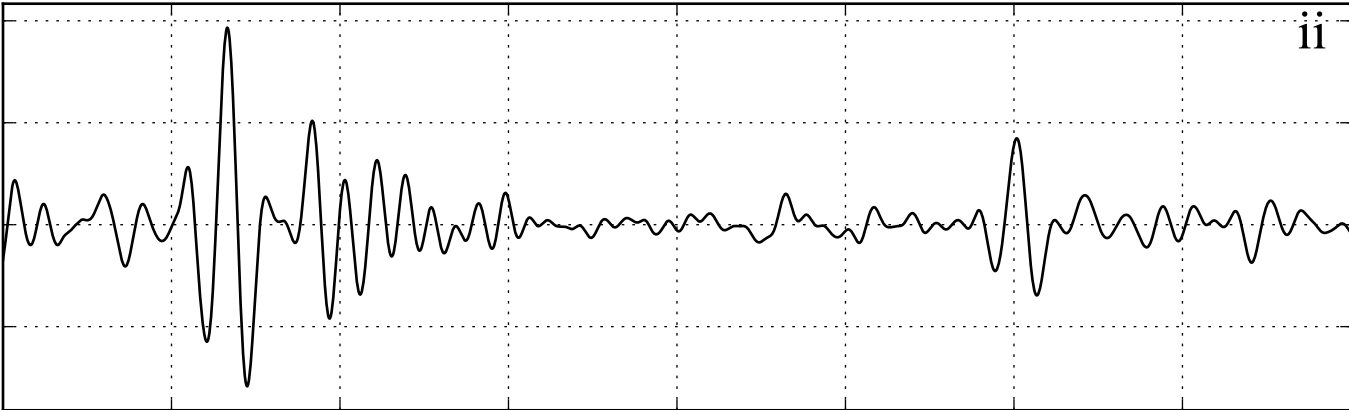
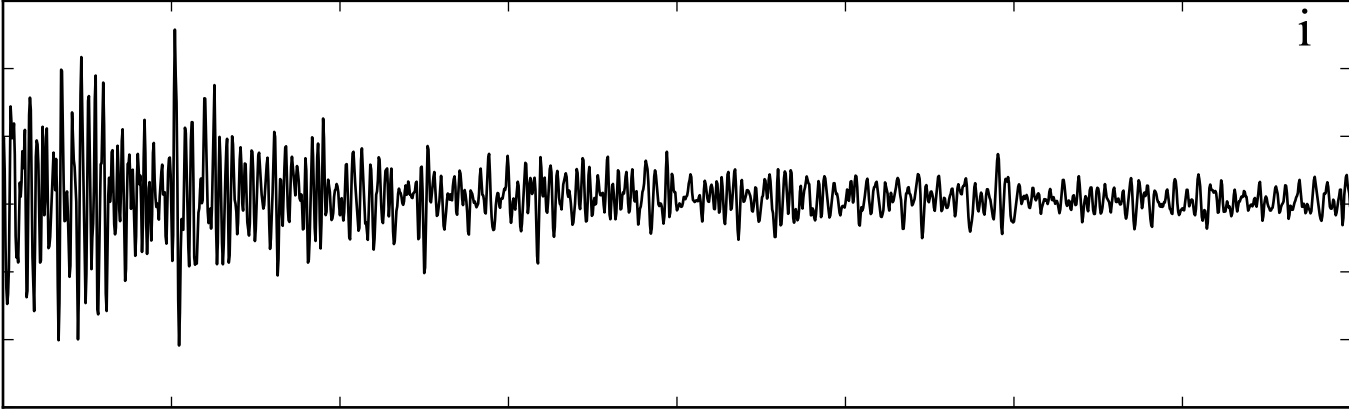
v





Time [s]

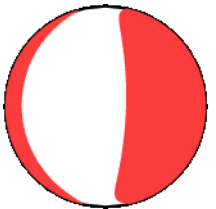


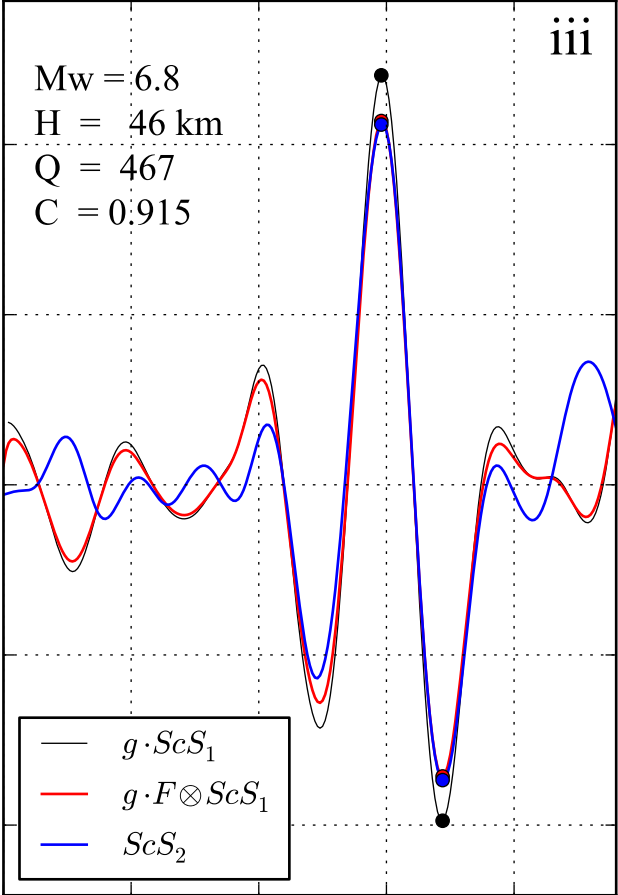


Time [s]

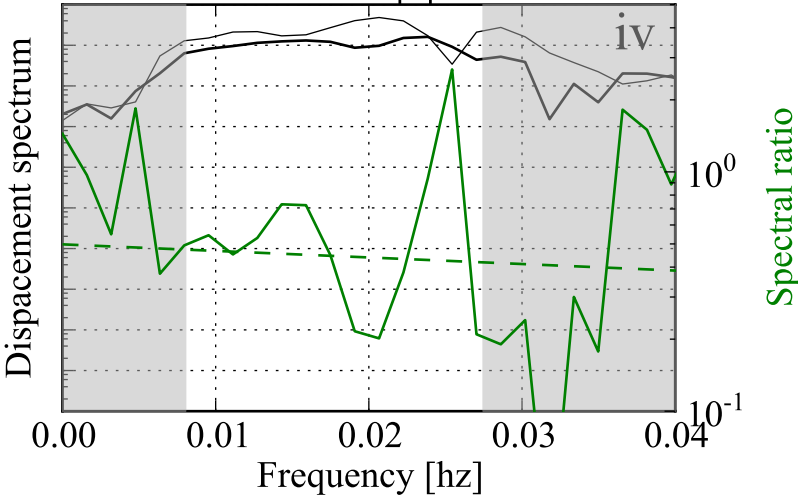
IU - COR - 00 - LHE $\Delta/Az/Baz = 2.6^\circ/192^\circ/11^\circ$ $Srp=0.83$
2001.059.18.49.32.311.IU.COR.00.LHE.SAC (2001/02/28)
 ScS_2-ScS_1 travel time: 938.0 τ : 49.1 s
Centroid: 47.140 -122.530 46.8 km Mw 6.8
 $Q = 467$ $t^* = 2.0$ s
Quality control: signal/noise ScS_1 : 12.61 ScS_2 5.52 Correlation : 0.915

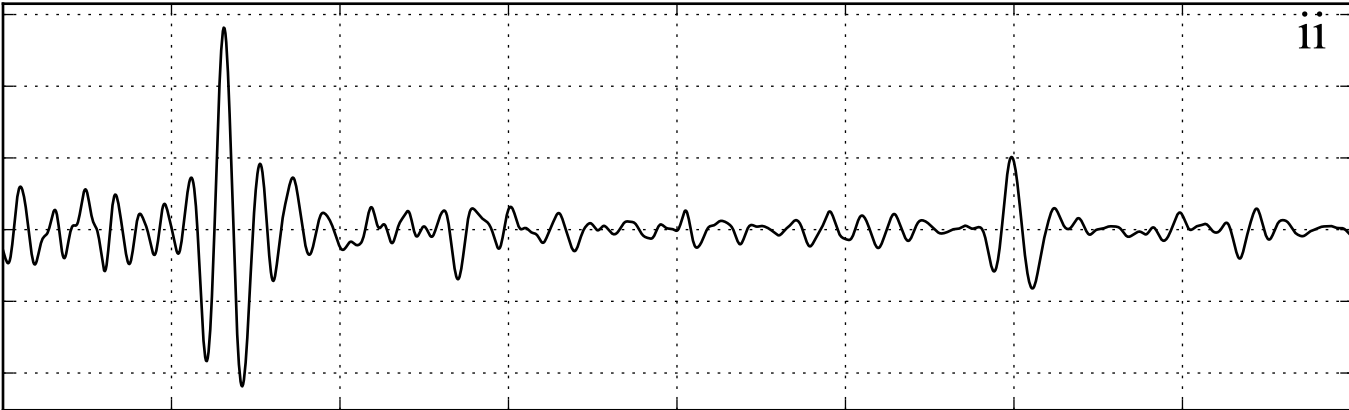
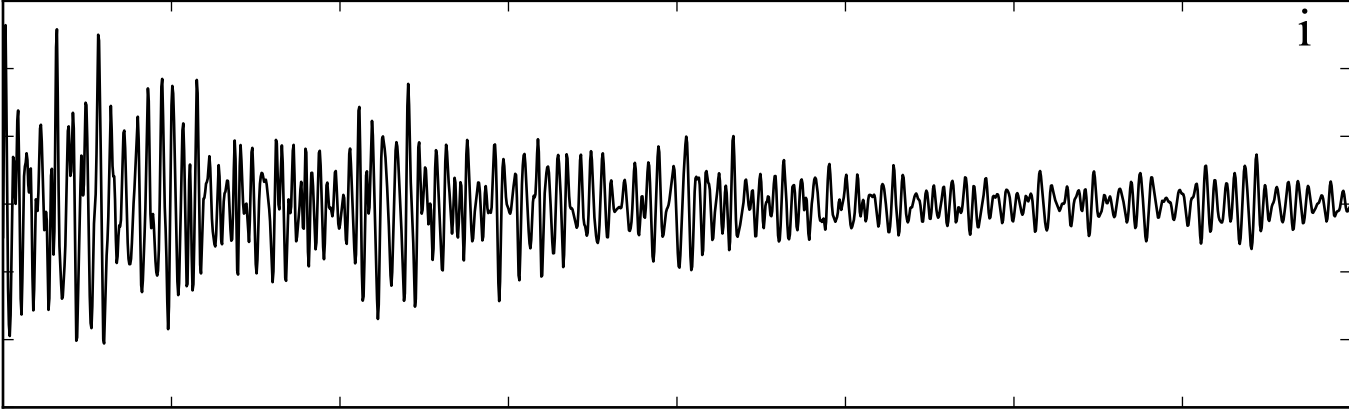
v



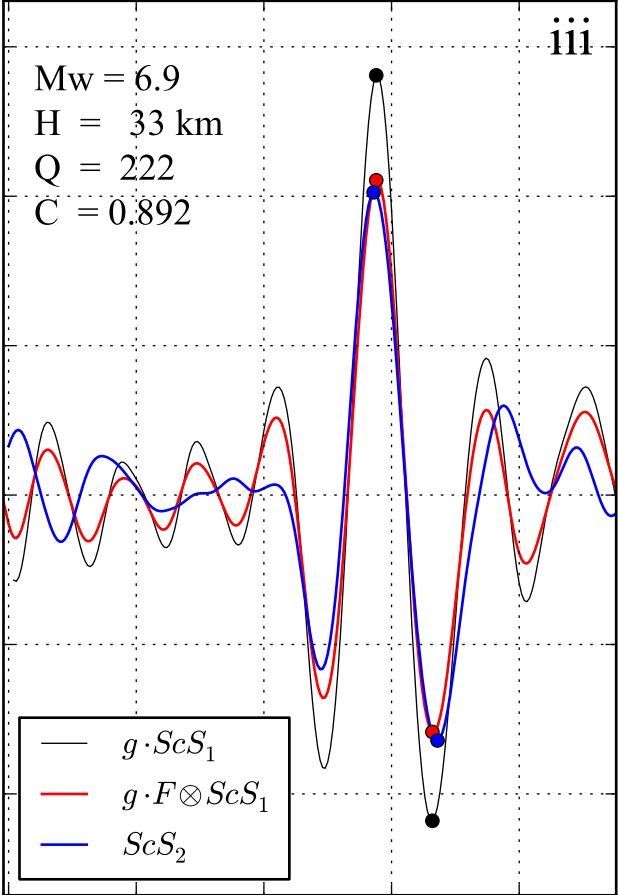
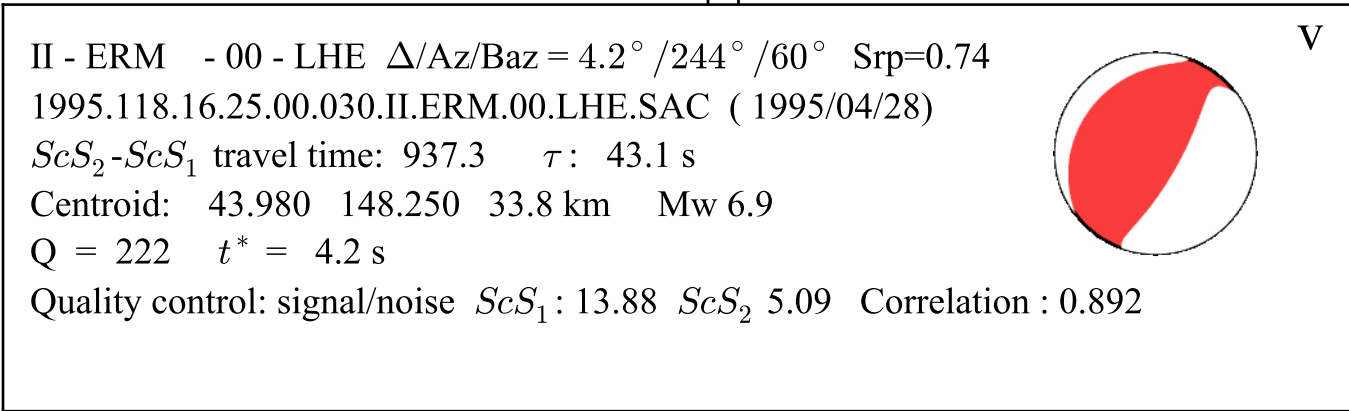


Time [s]

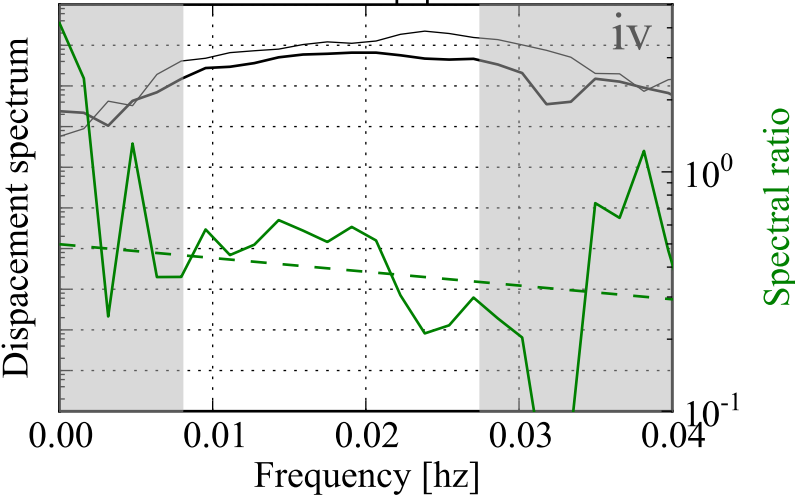


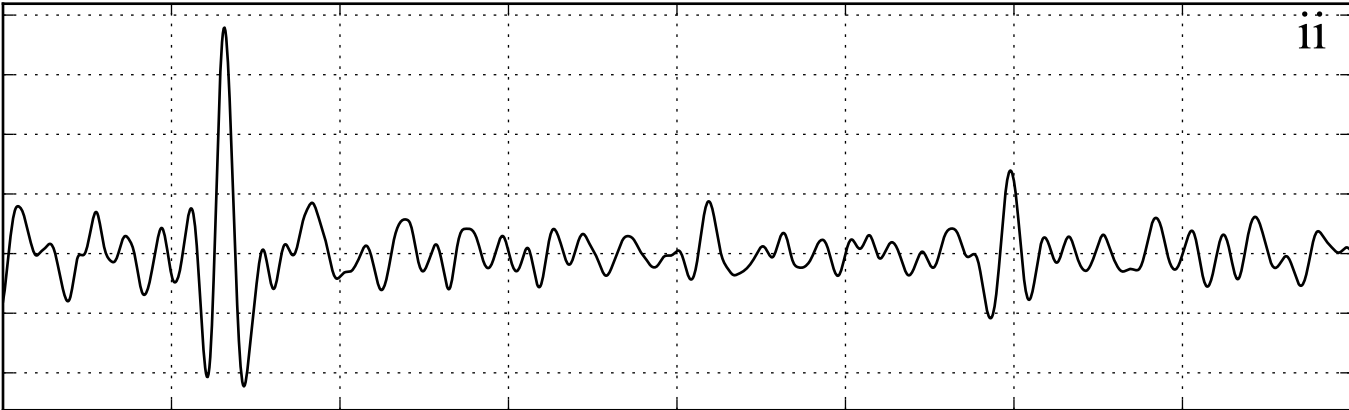
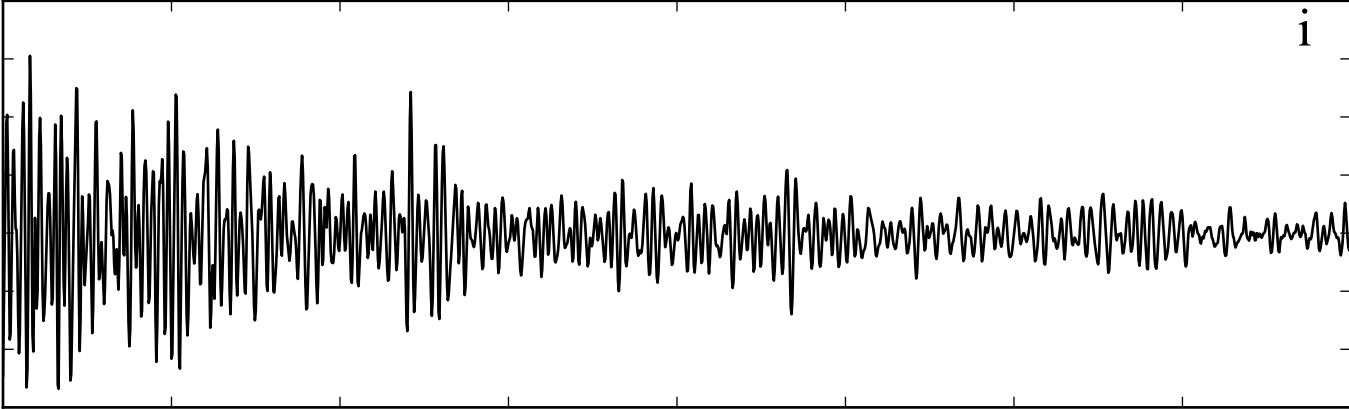


Time [s]

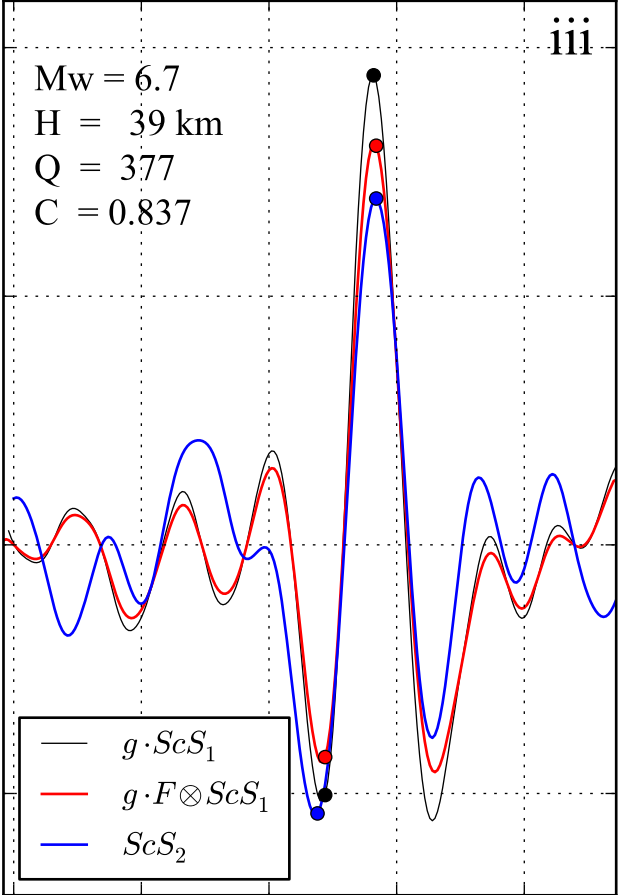
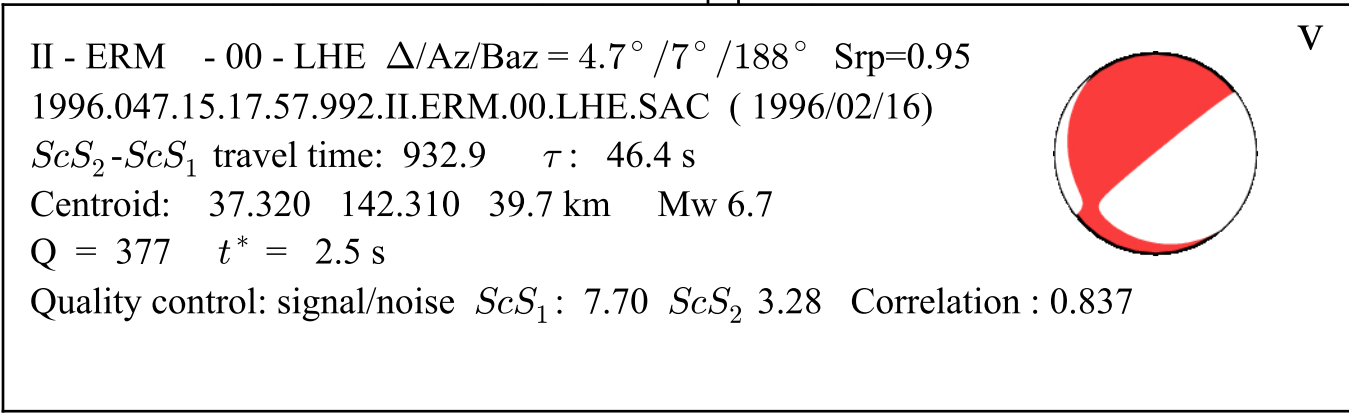


Time [s]

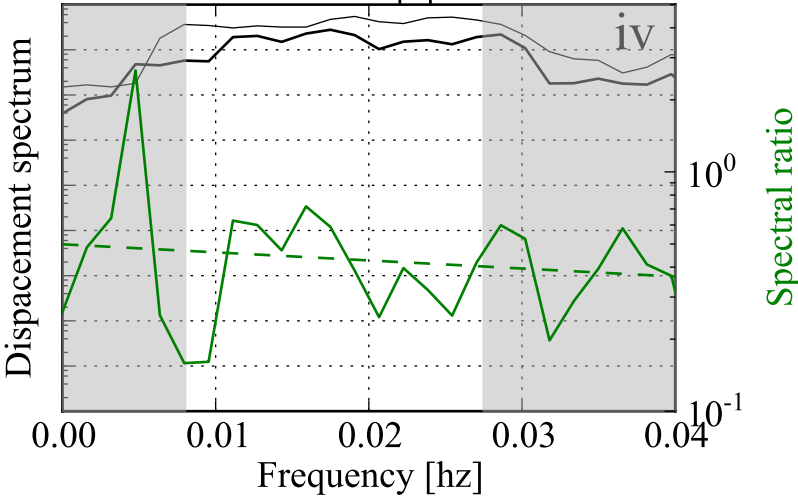


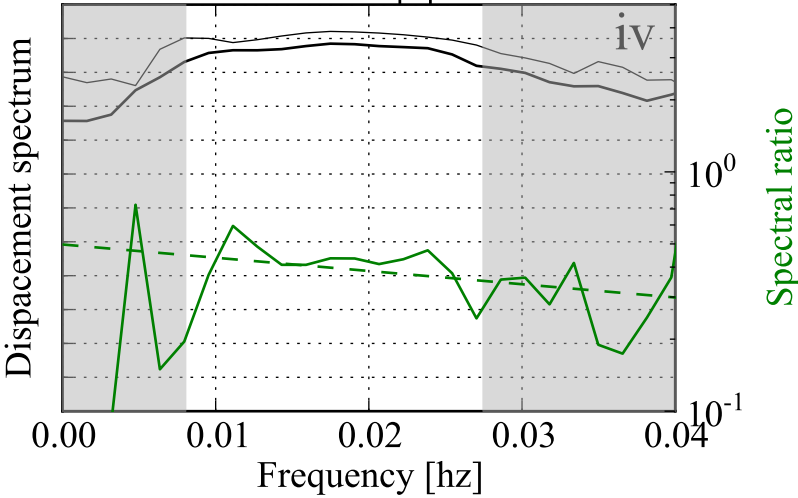
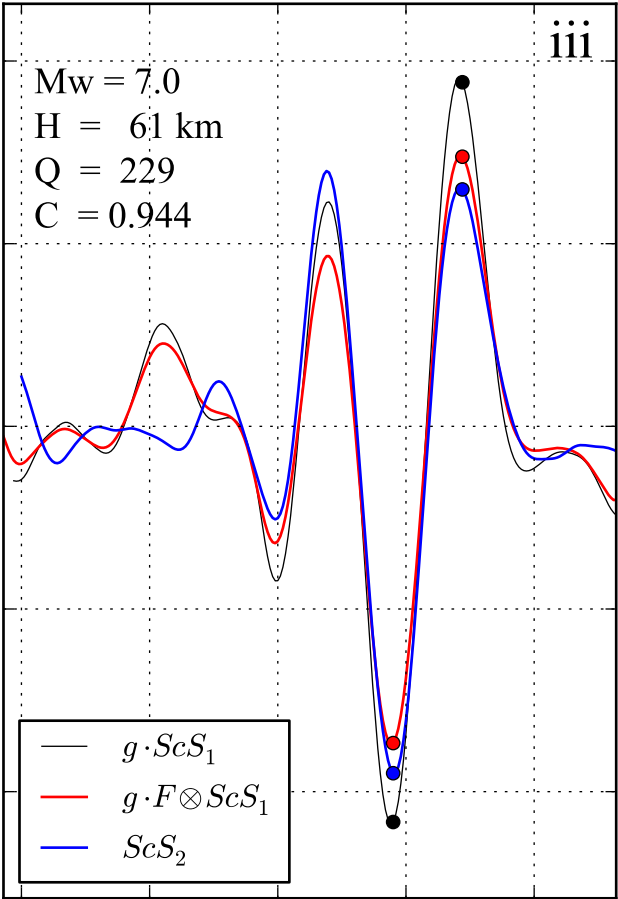
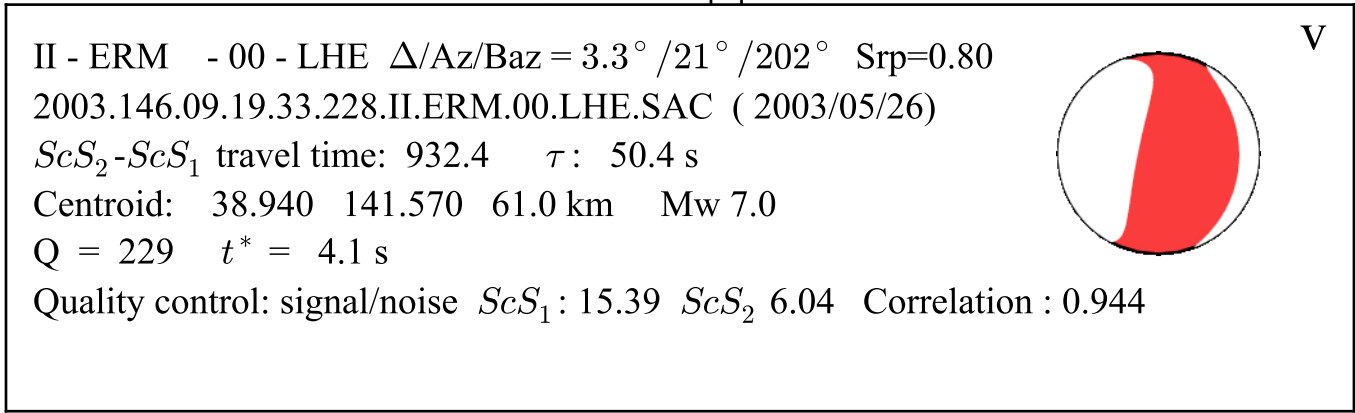
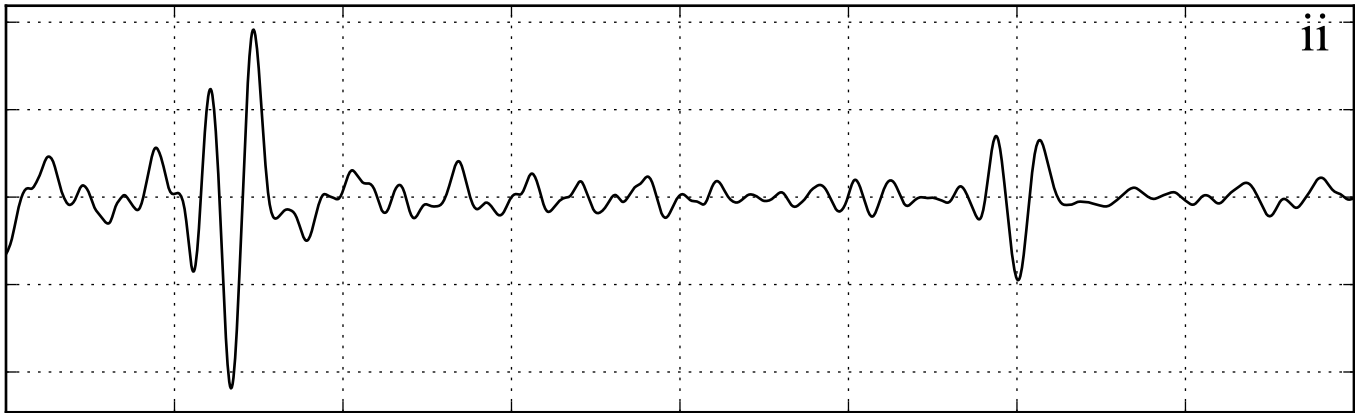
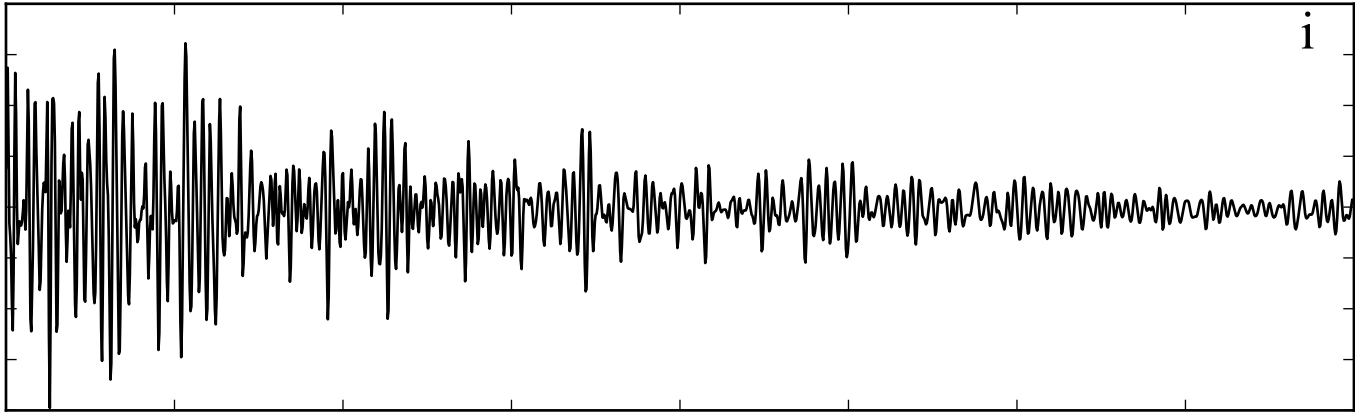


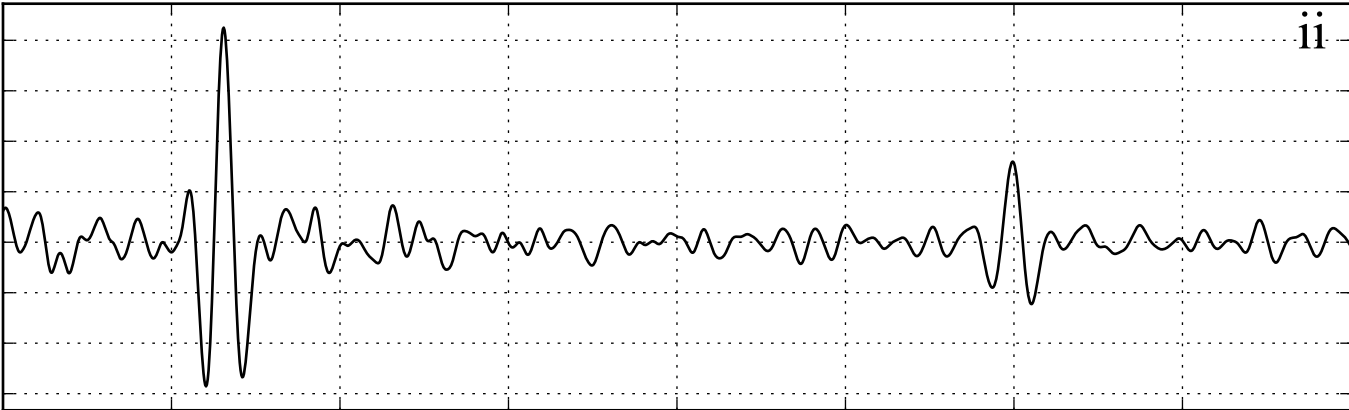
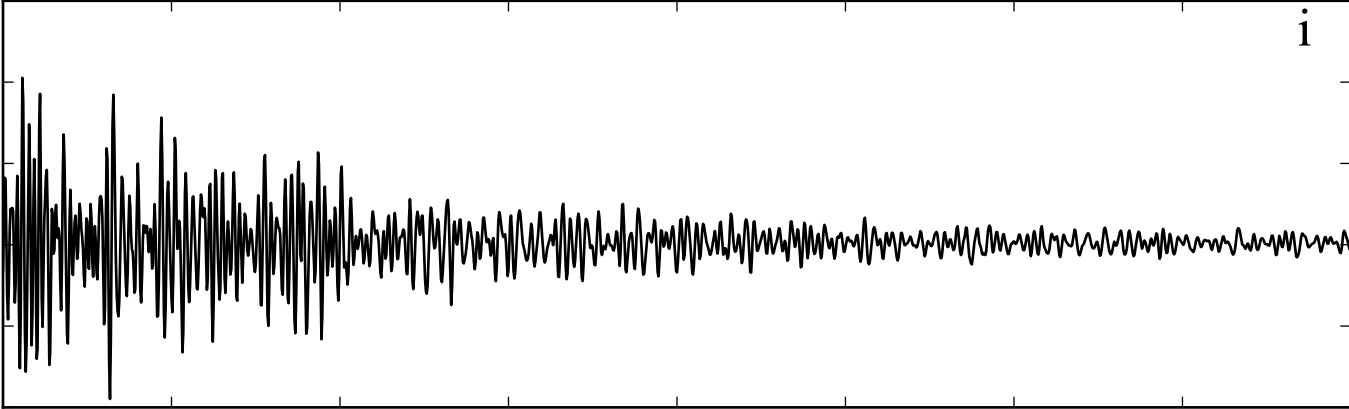
Time [s]



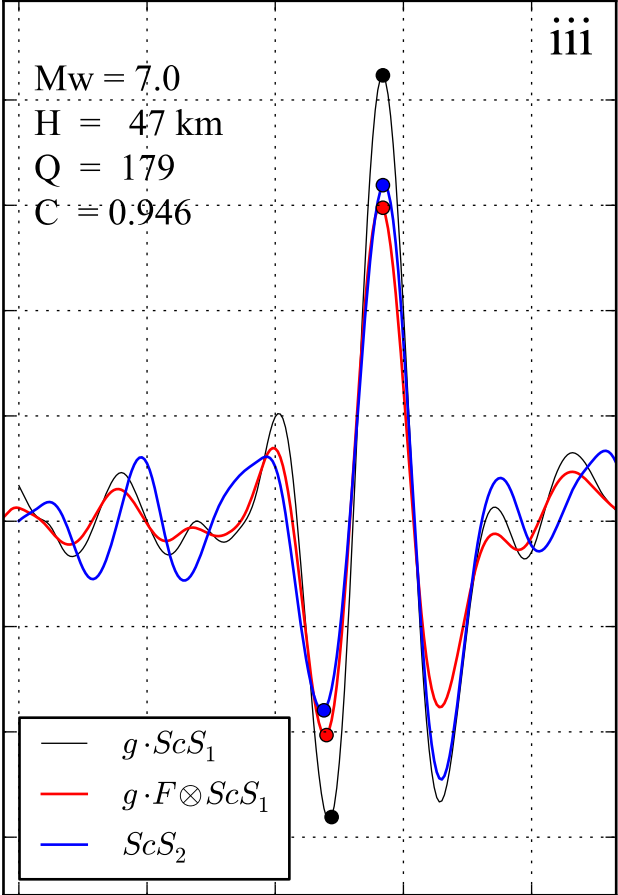
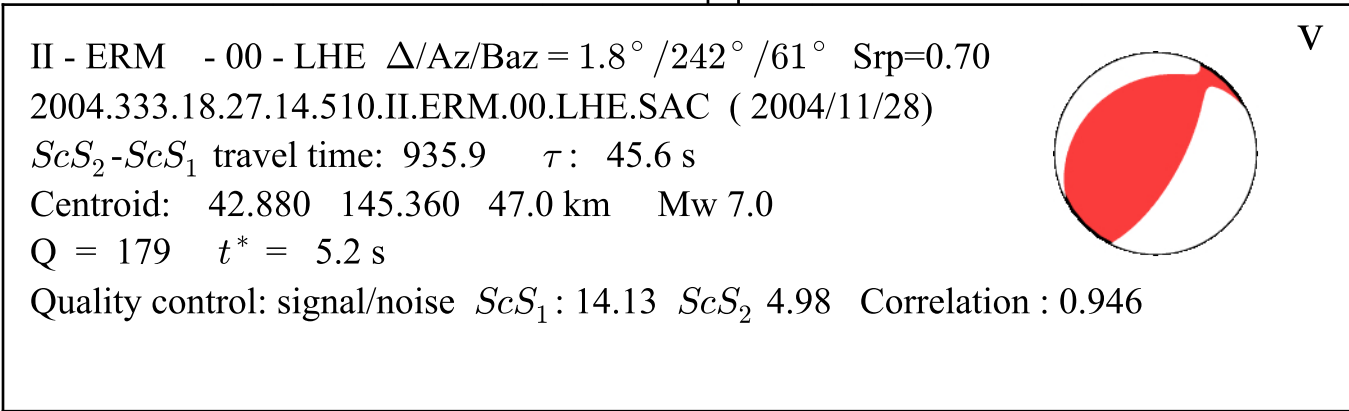
Time [s]



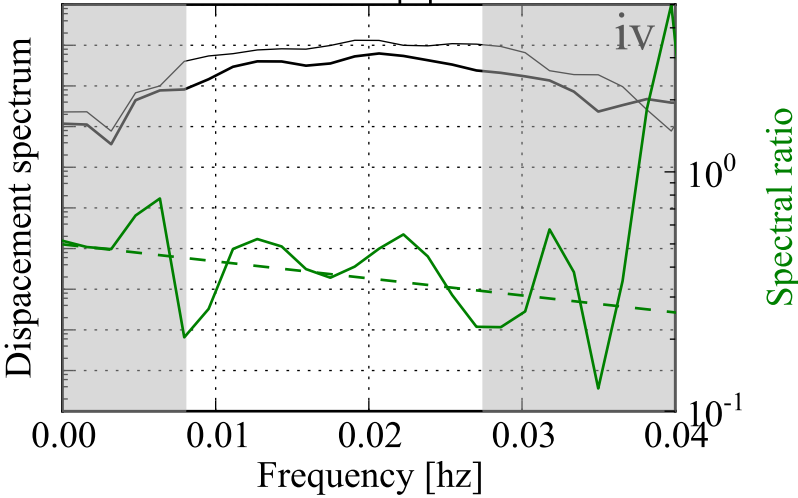


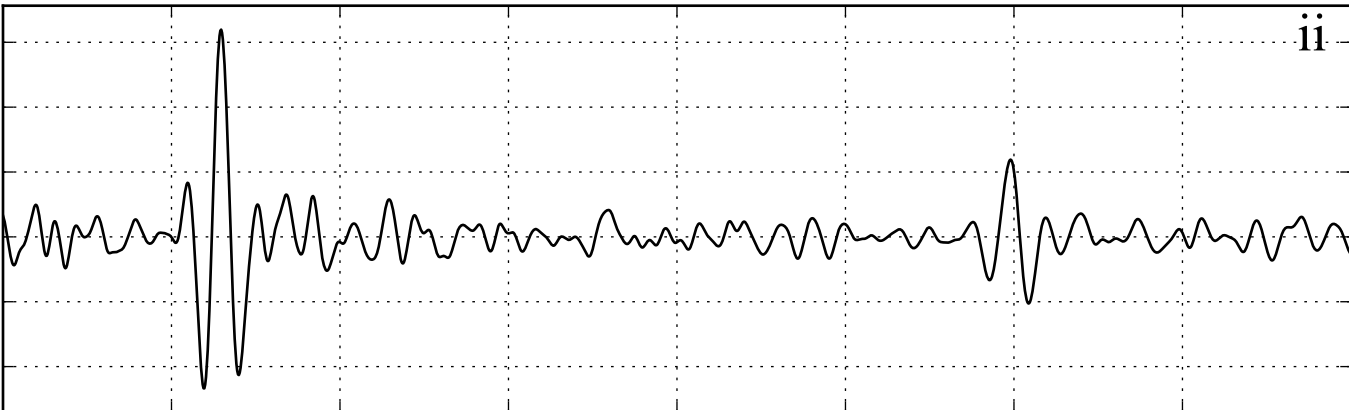
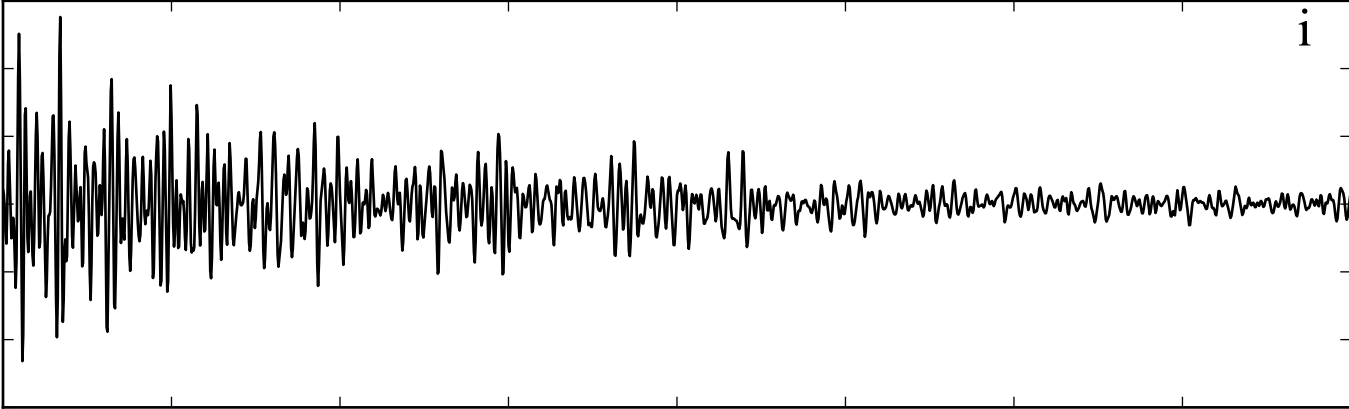


Time [s]

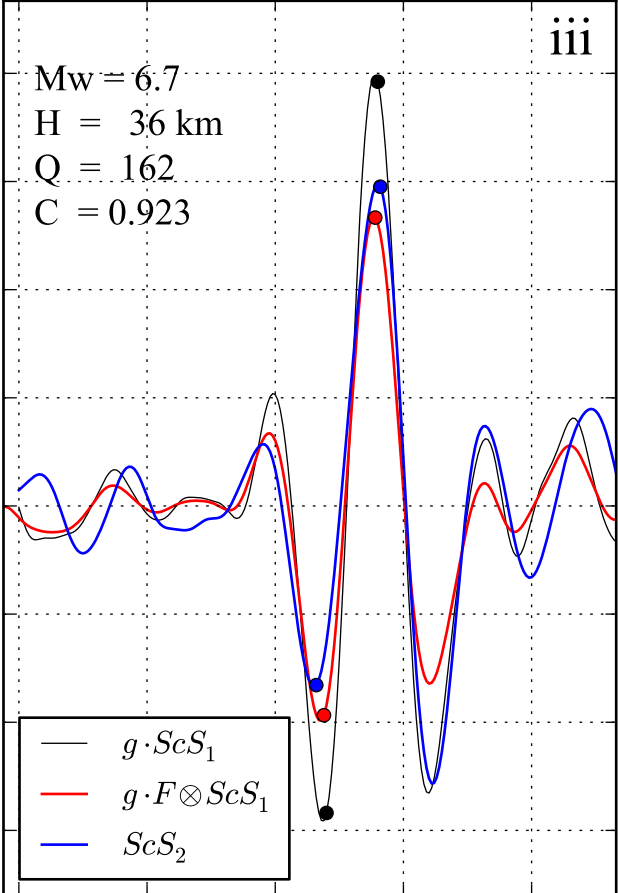
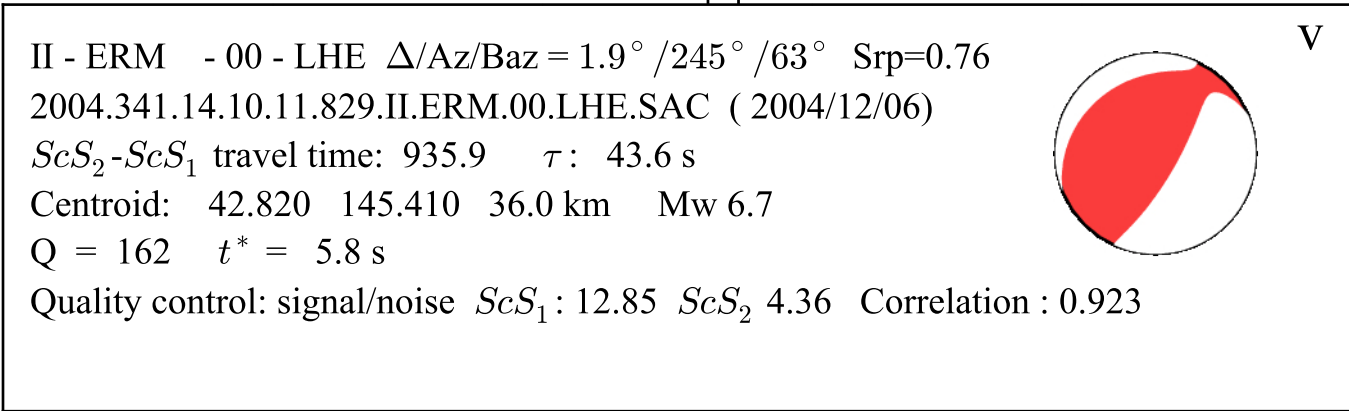


Time [s]

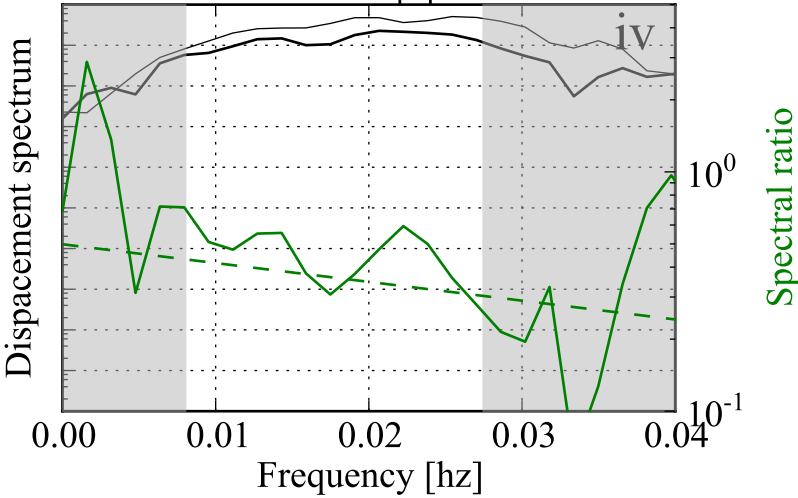


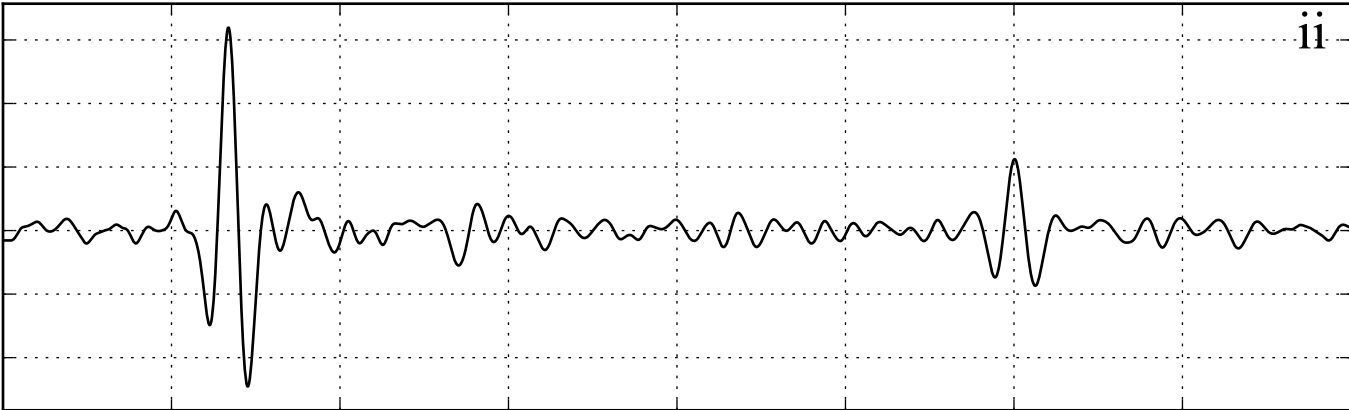
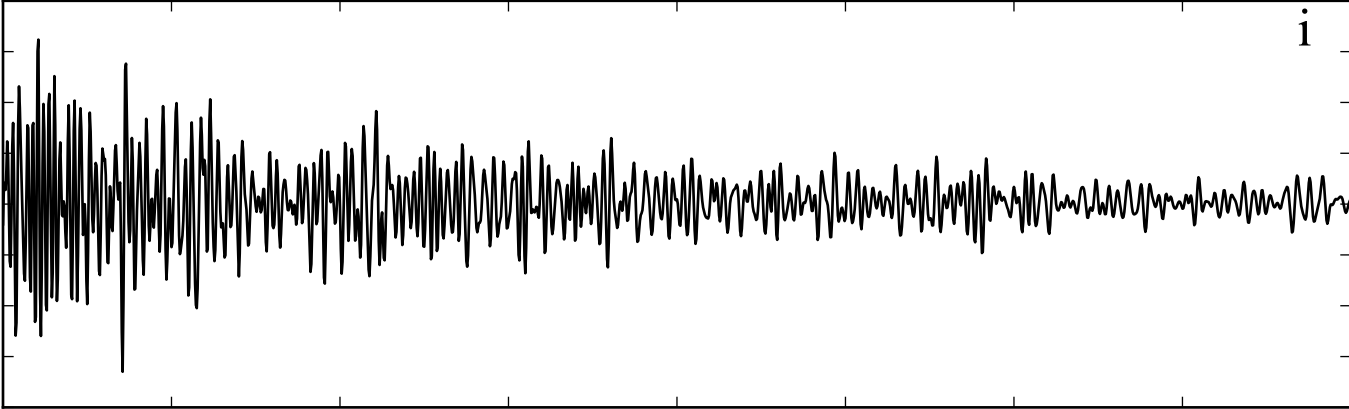


Time [s]

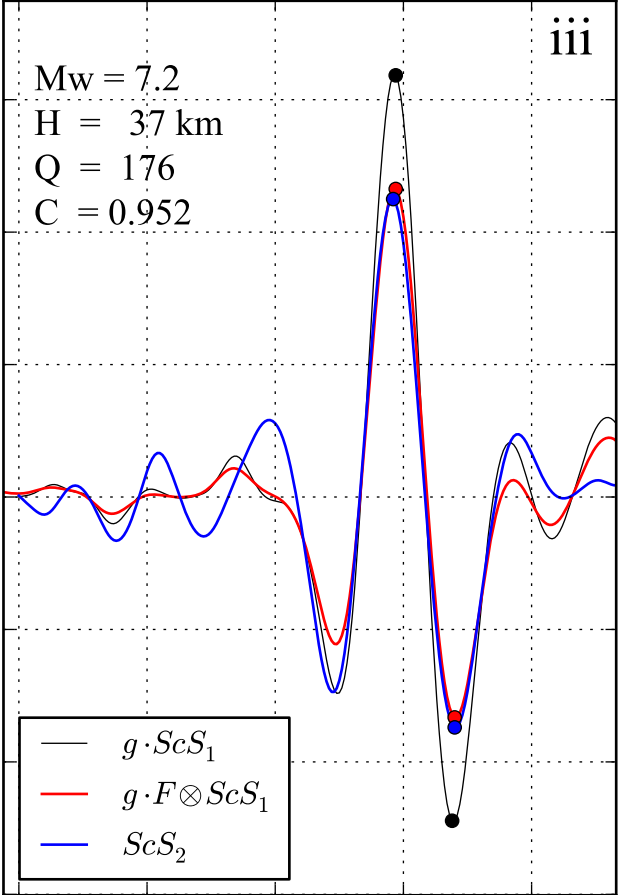
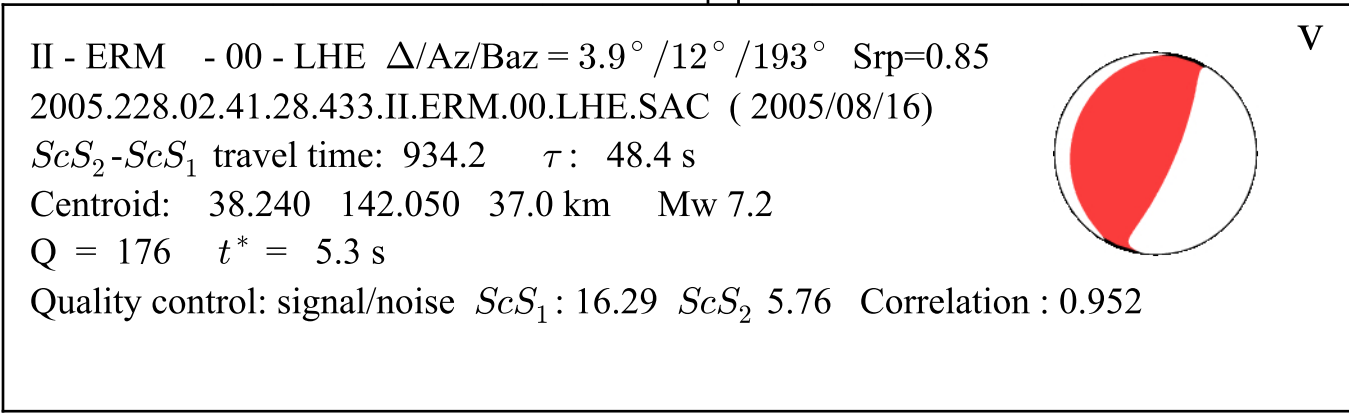


Time [s]

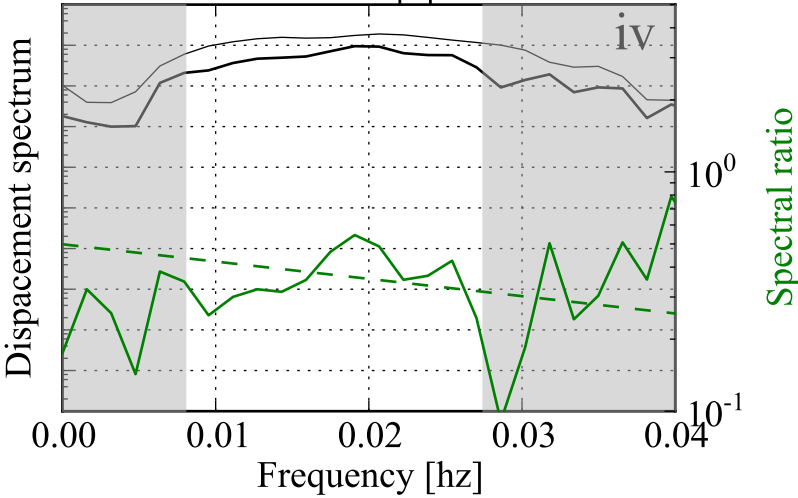


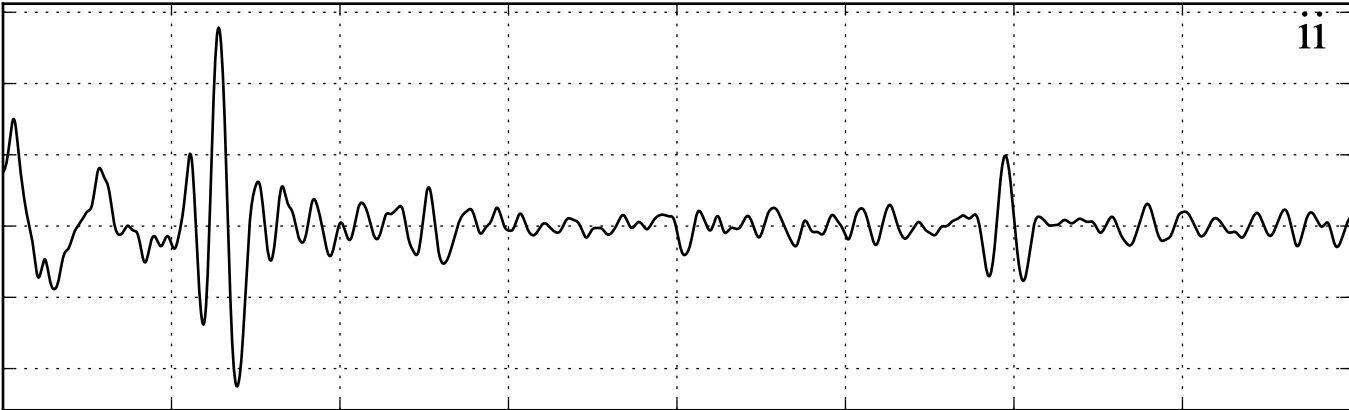
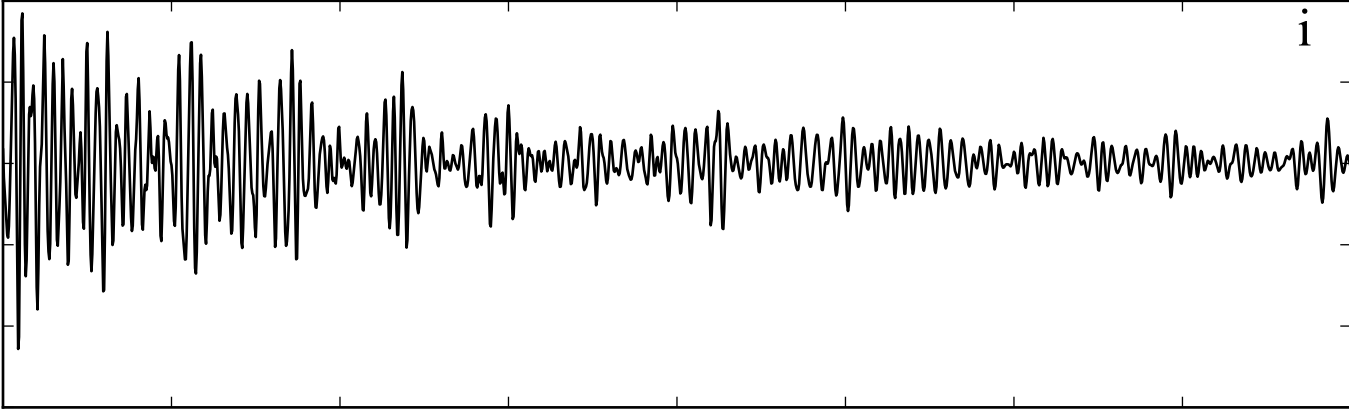


Time [s]

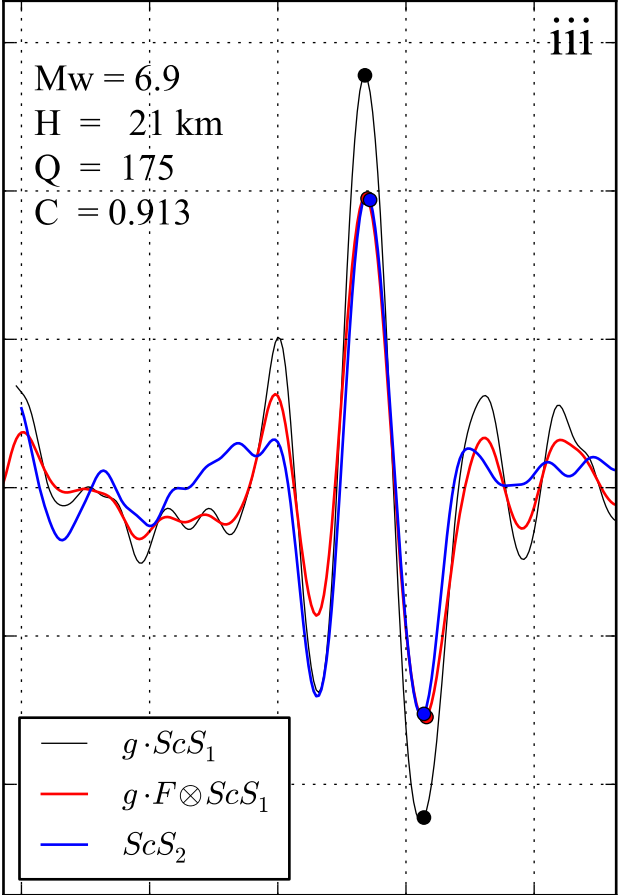
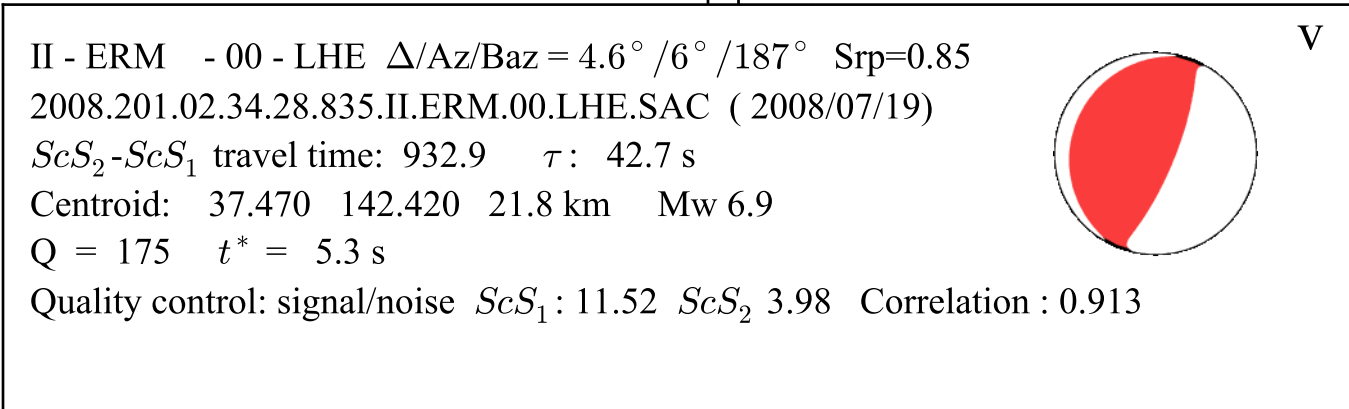


Time [s]

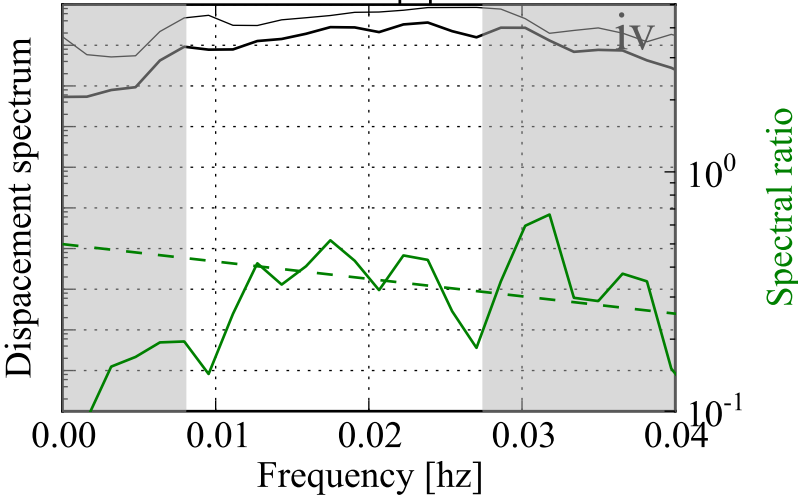


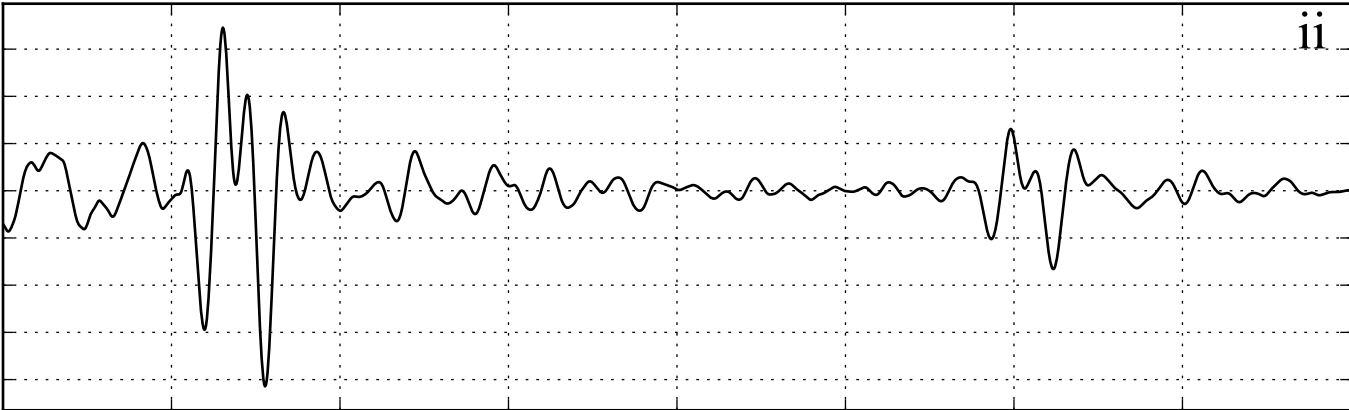
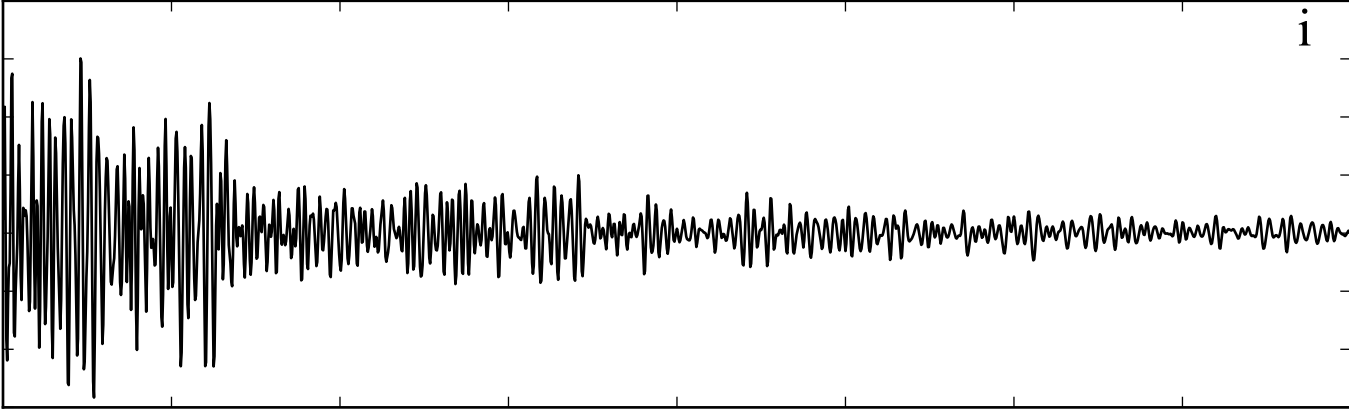


Time [s]

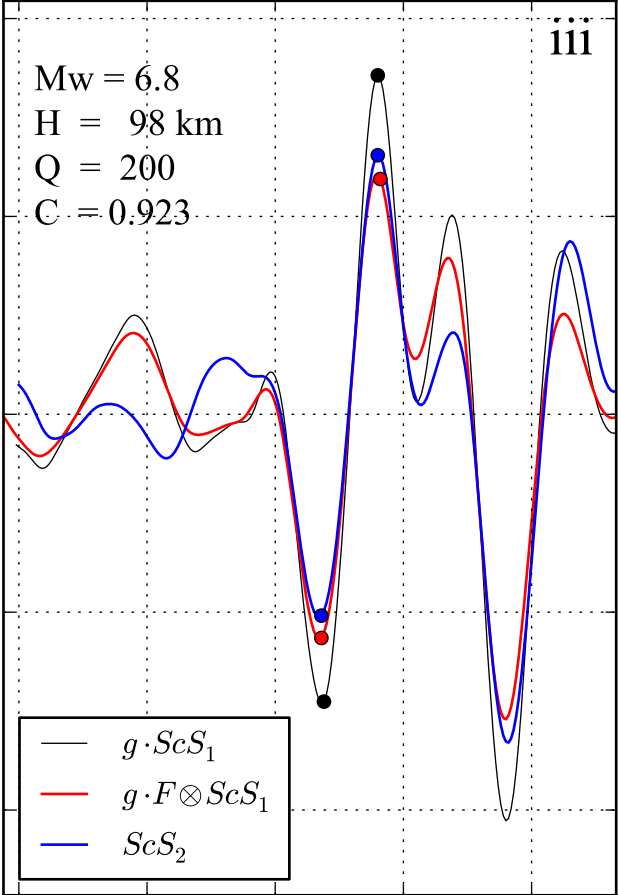
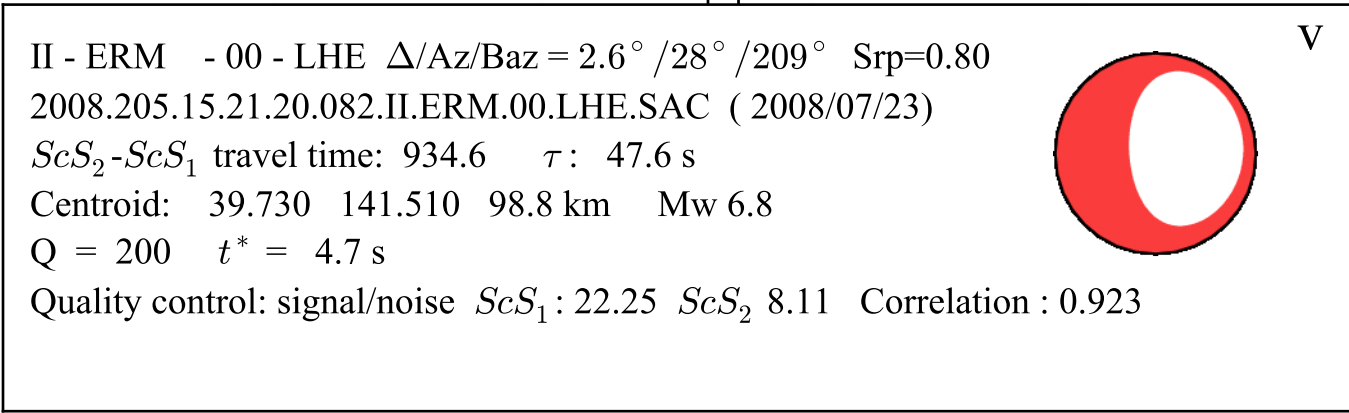


Time [s]

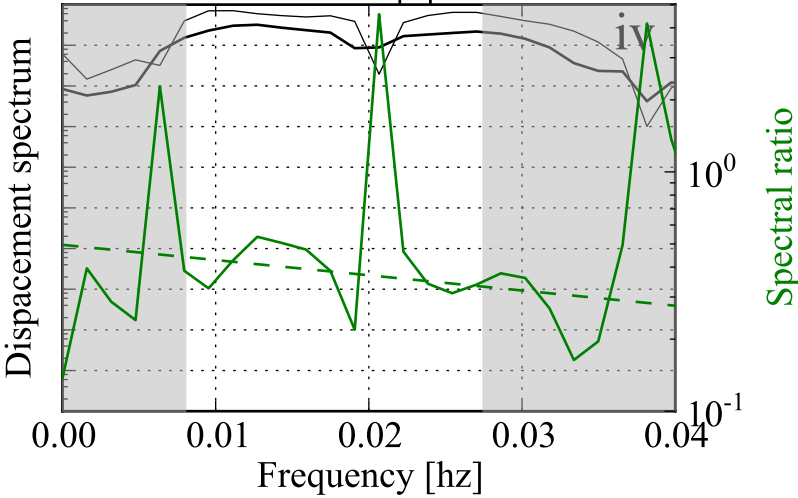


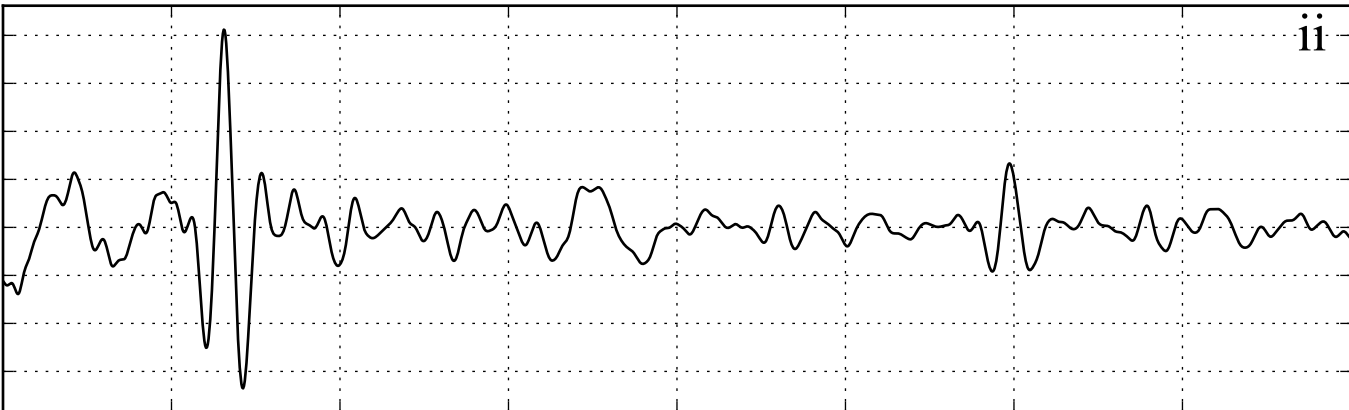
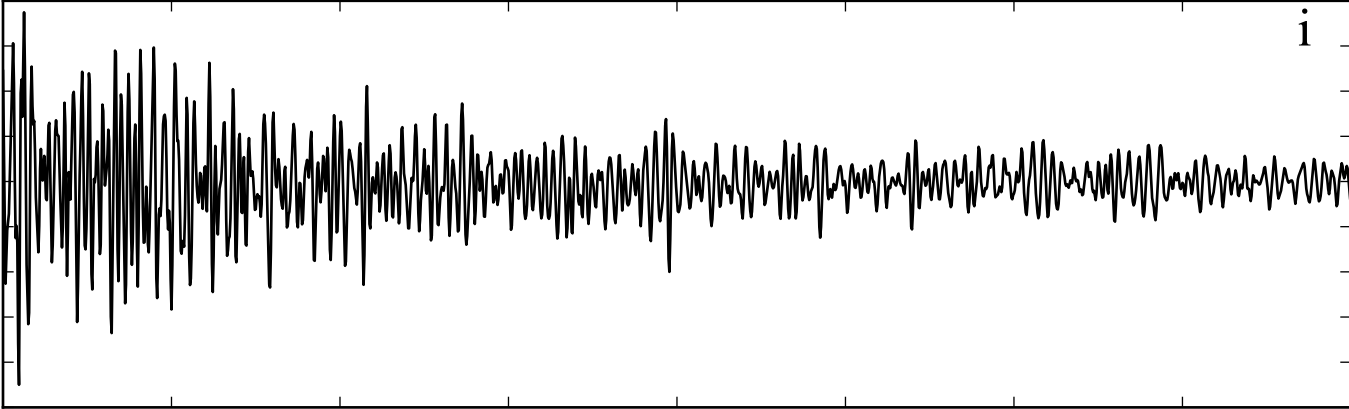


Time [s]



Time [s]





Time [s]

II - ERM - 00 - LHE $\Delta/Az/Baz = 4.4^\circ/11^\circ/192^\circ$ Srp=0.67

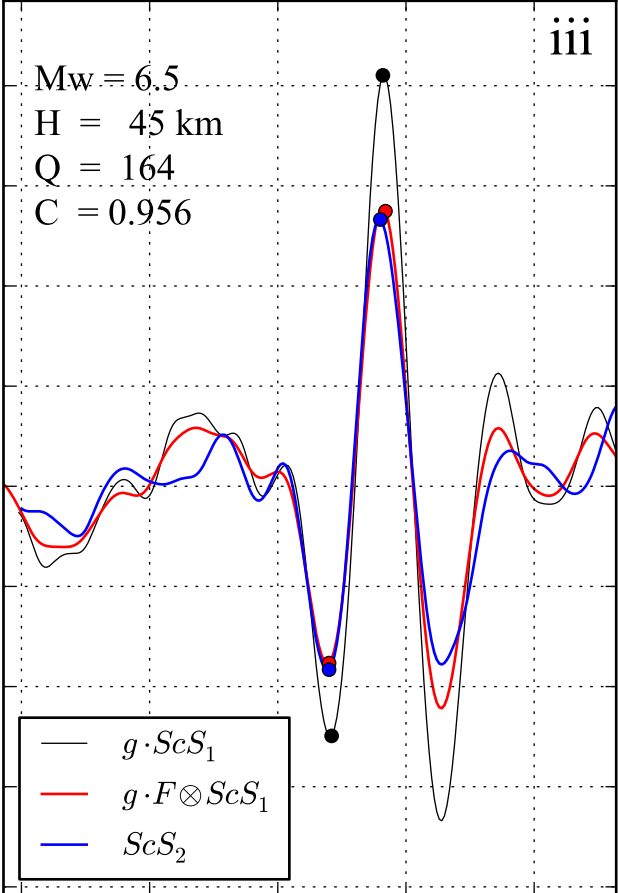
2010.073.08.03.04.255.II.ERM.00.LHE.SAC (2010/03/14)

ScS_2 - ScS_1 travel time: 934.0 τ : 45.2 s

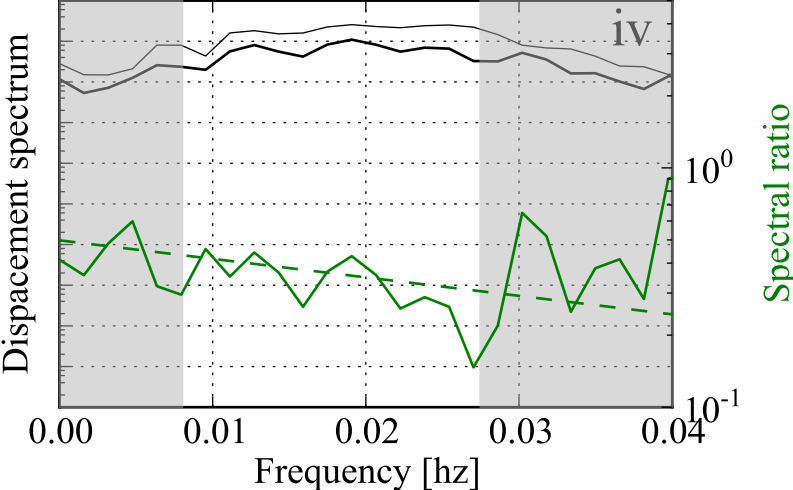
Centroid: 37.700 141.980 45.9 km Mw 6.5

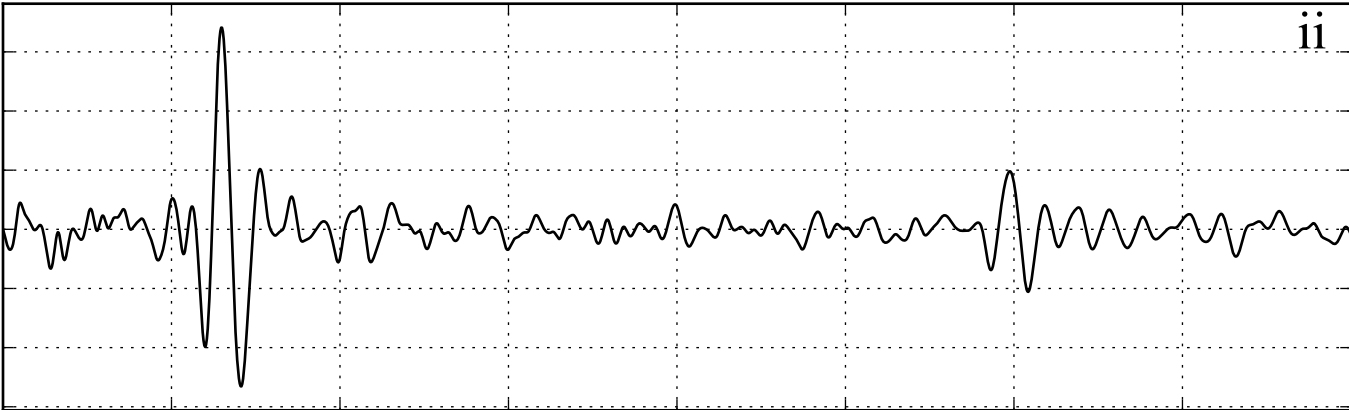
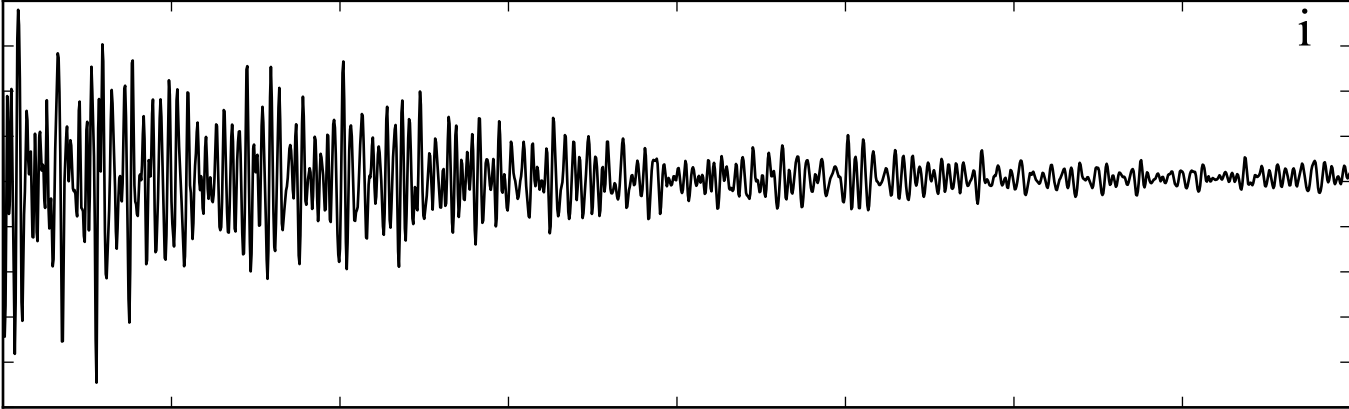
Q = 164 $t^* = 5.7$ s

Quality control: signal/noise ScS_1 : 11.20 ScS_2 3.80 Correlation : 0.956

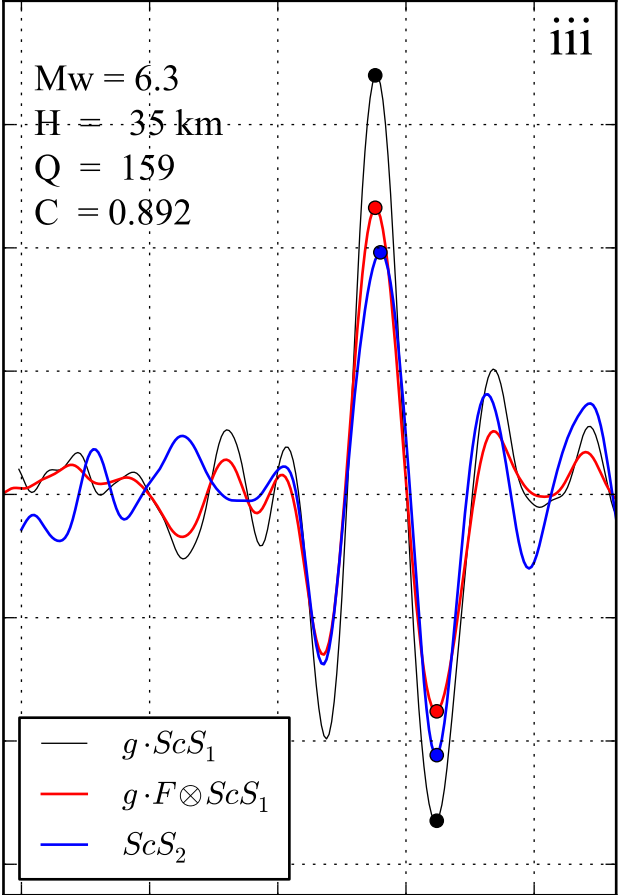
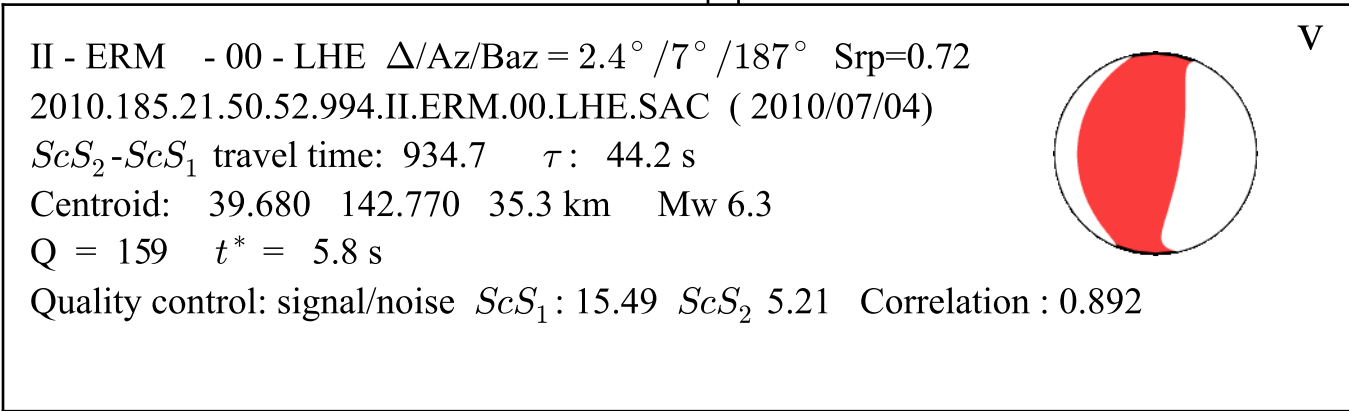


Time [s]

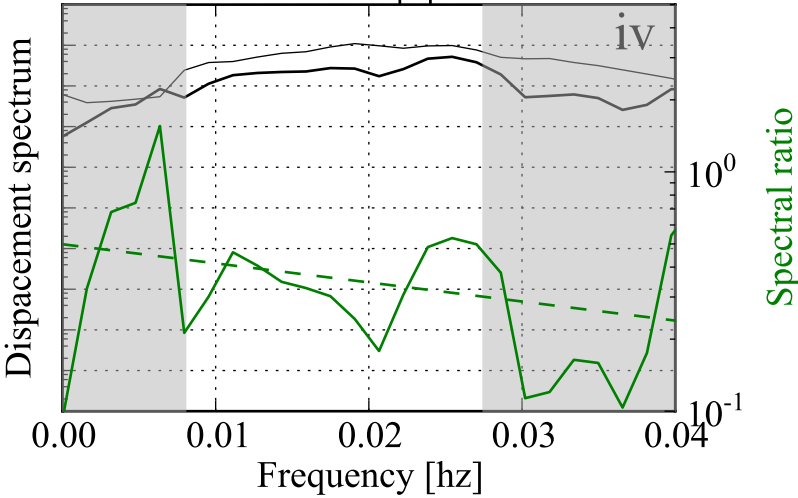


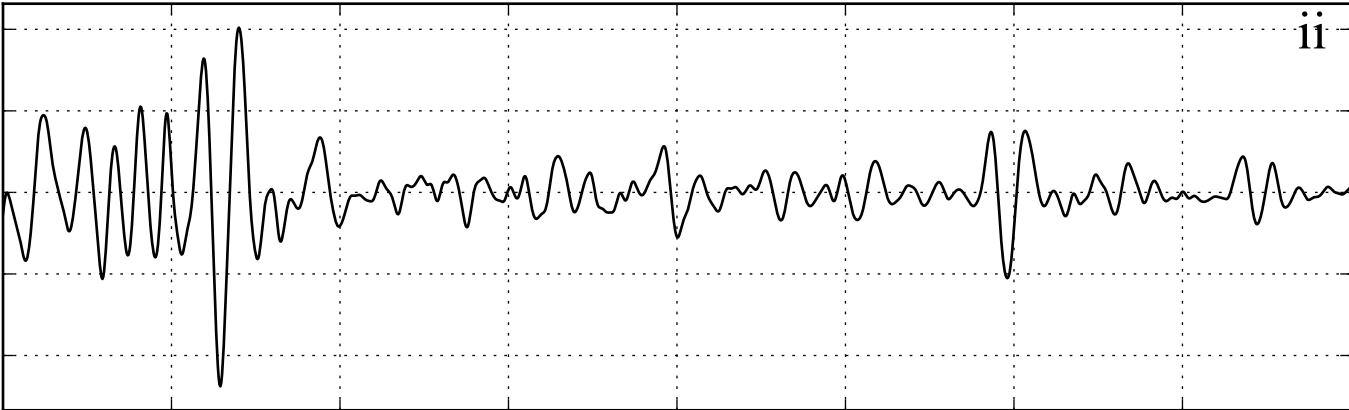
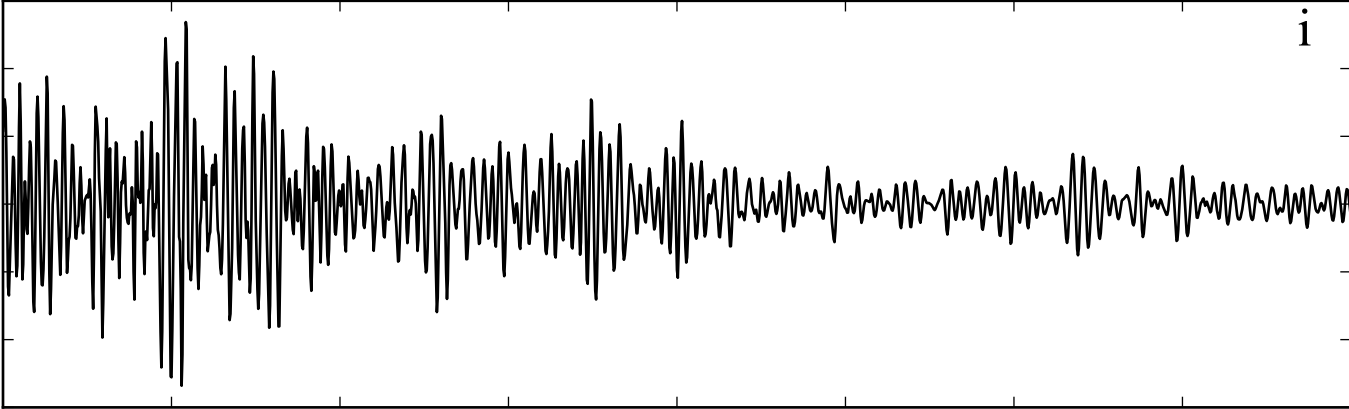


Time [s]



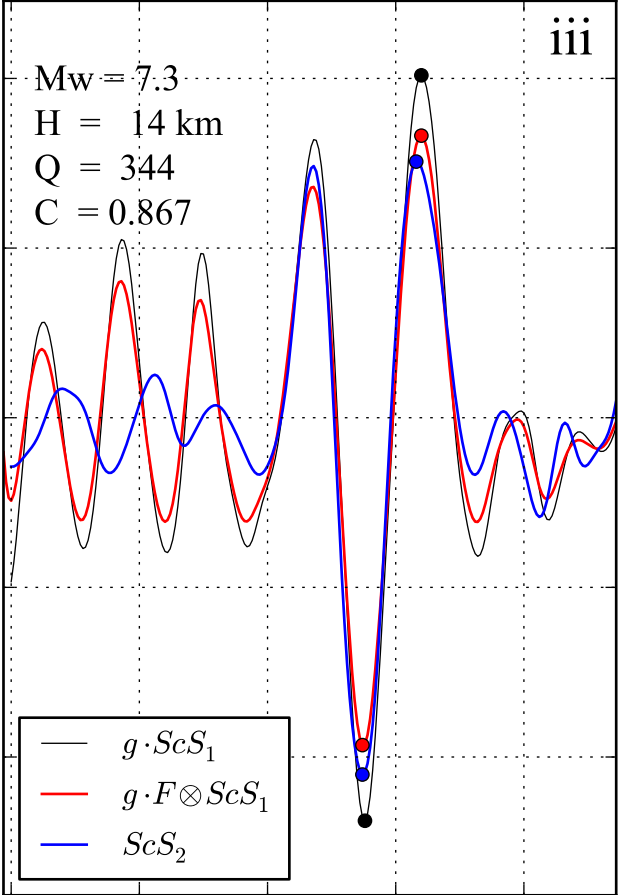
Time [s]



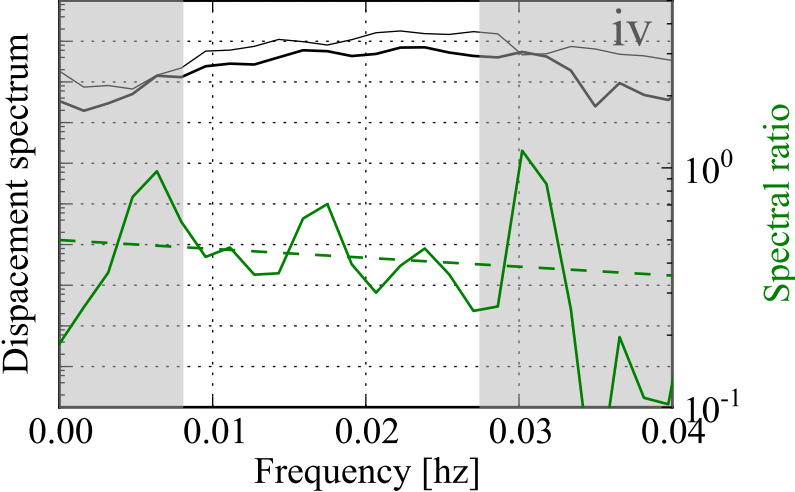


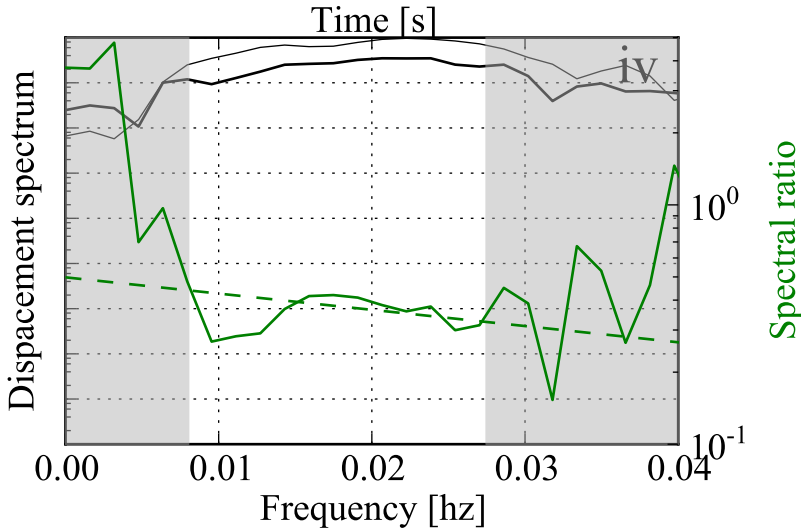
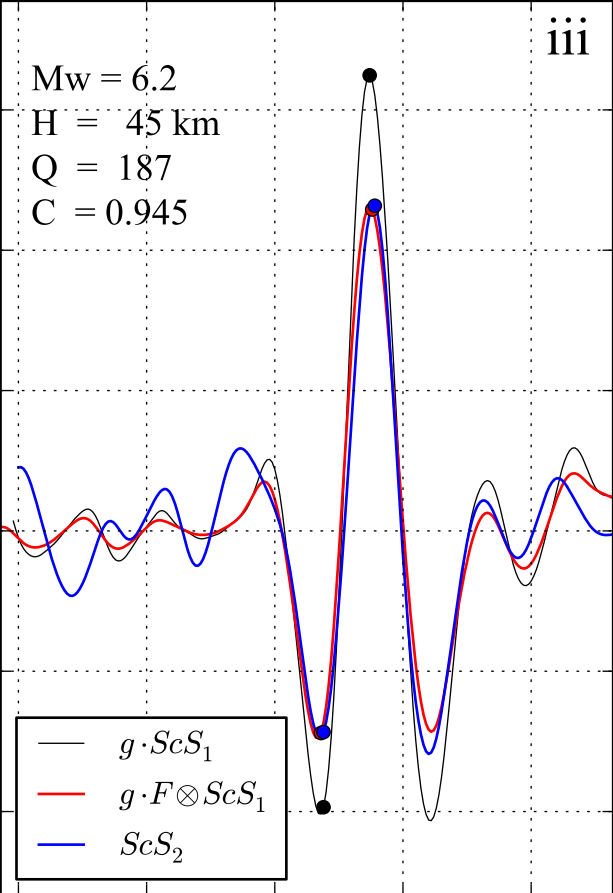
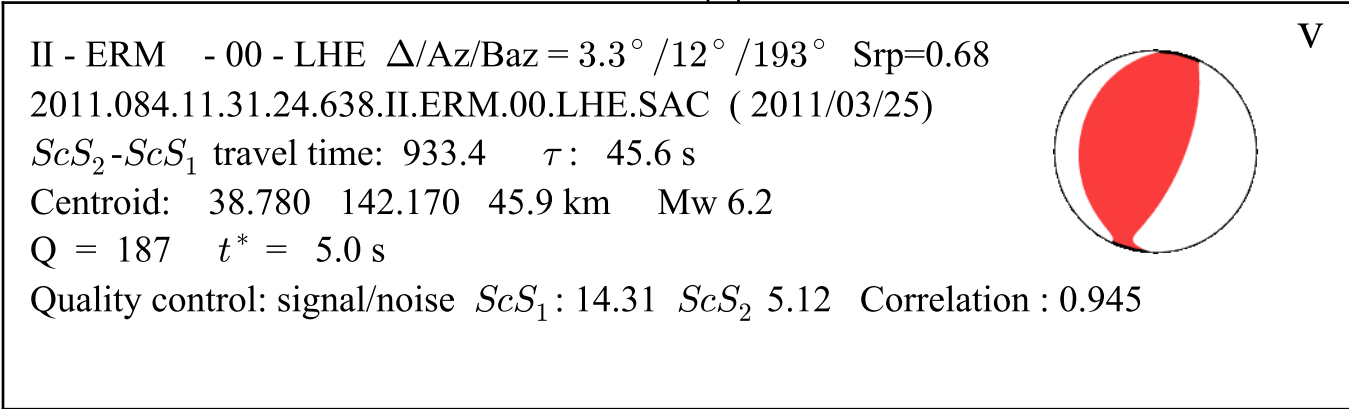
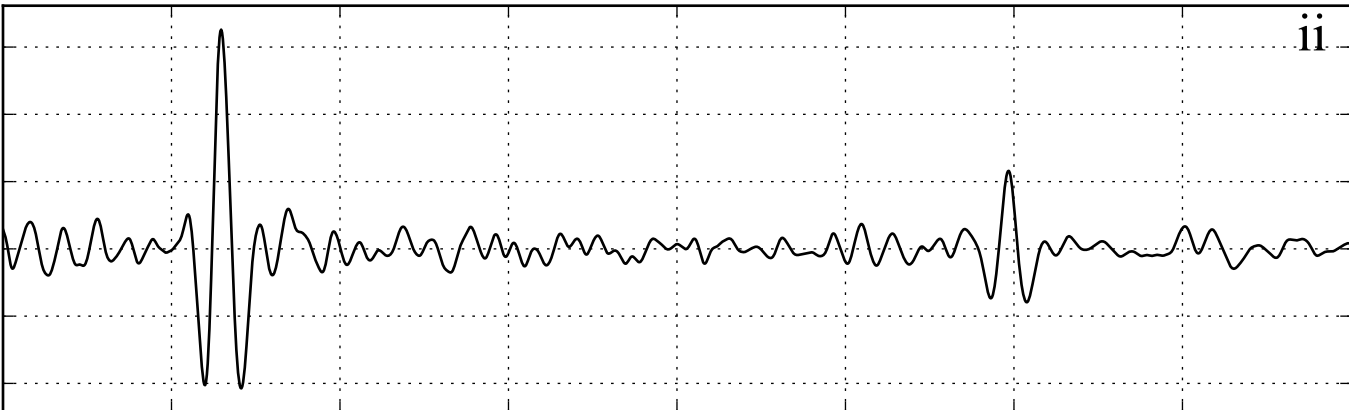
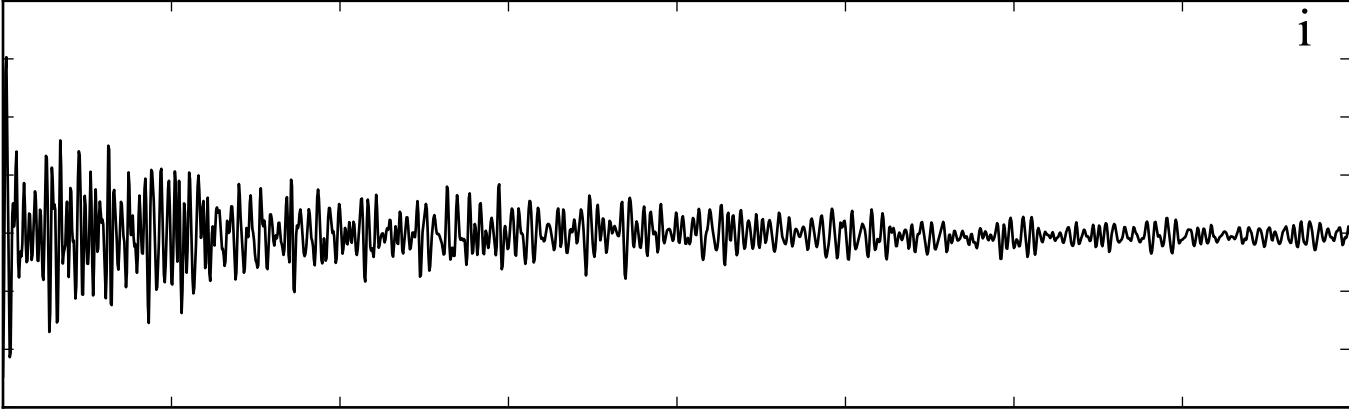
Time [s]

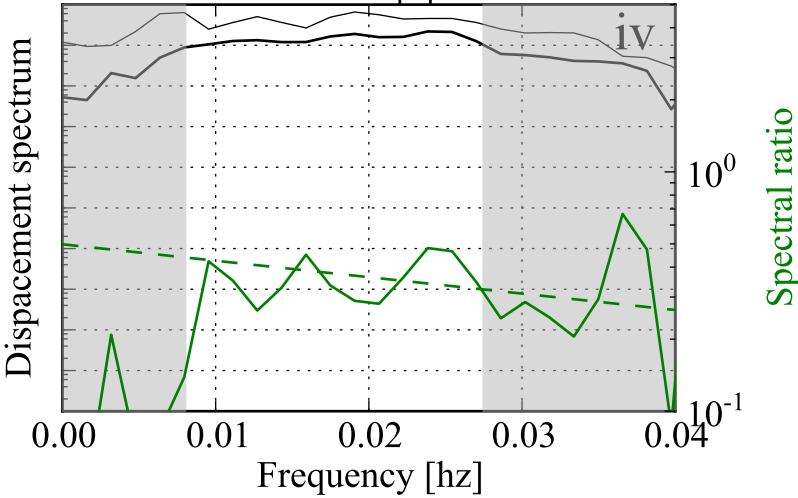
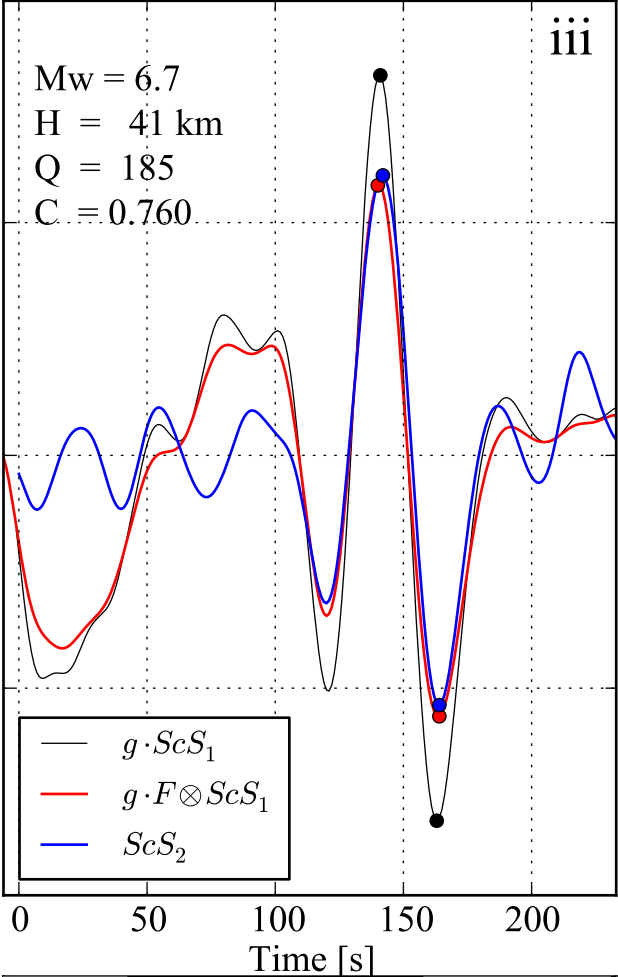
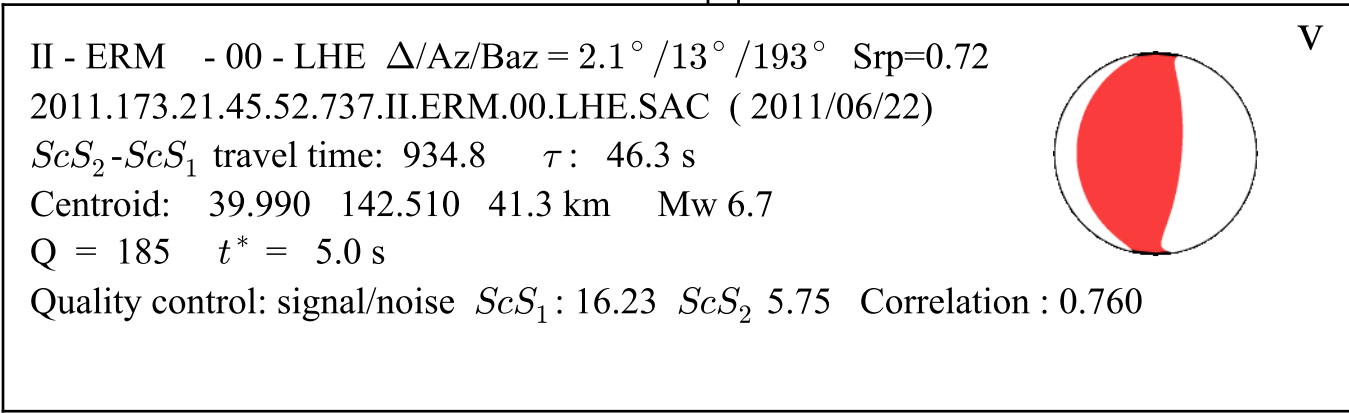
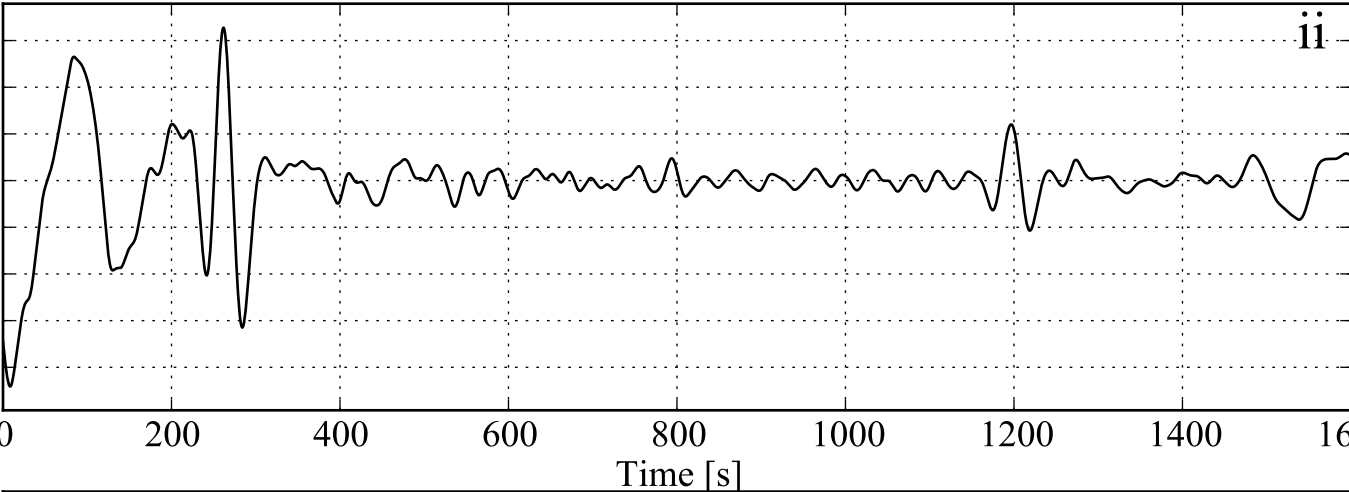
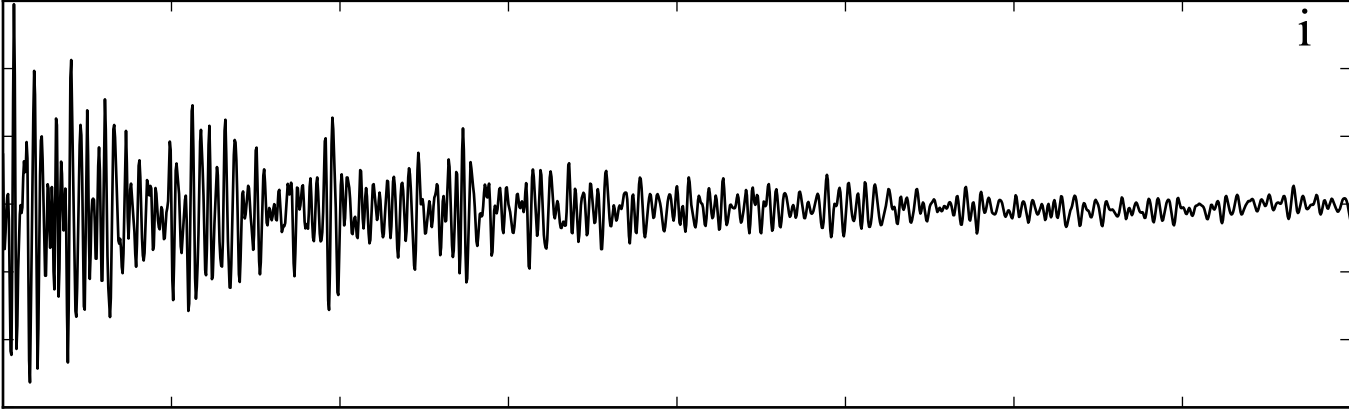
II - ERM - 00 - LHN $\Delta/Az/Baz = 3.5^\circ / 4^\circ / 184^\circ$ $Srp=0.92$
2011.068.02.40.20.592.II.ERM.00.LHN.SAC (2011/03/09)
 ScS_2-ScS_1 travel time: 935.4 τ : 43.6 s
Centroid: 38.560 142.780 14.1 km Mw 7.3
 $Q = 344$ $t^* = 2.7$ s
Quality control: signal/noise ScS_1 : 8.59 ScS_2 3.53 Correlation : 0.867

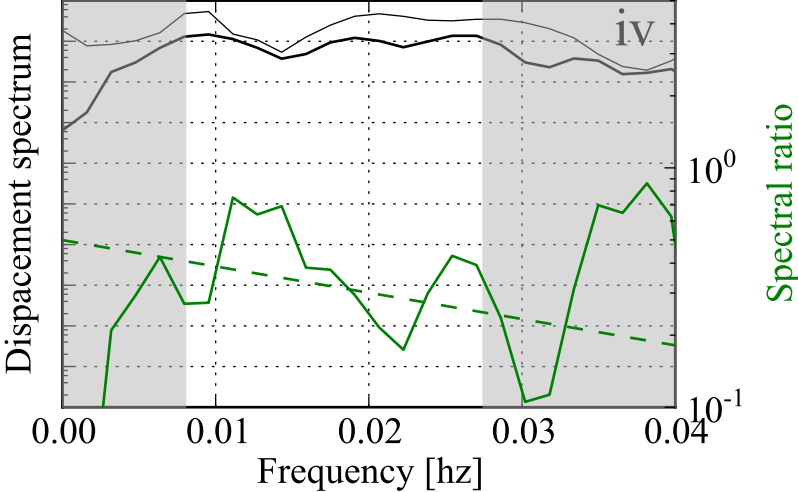
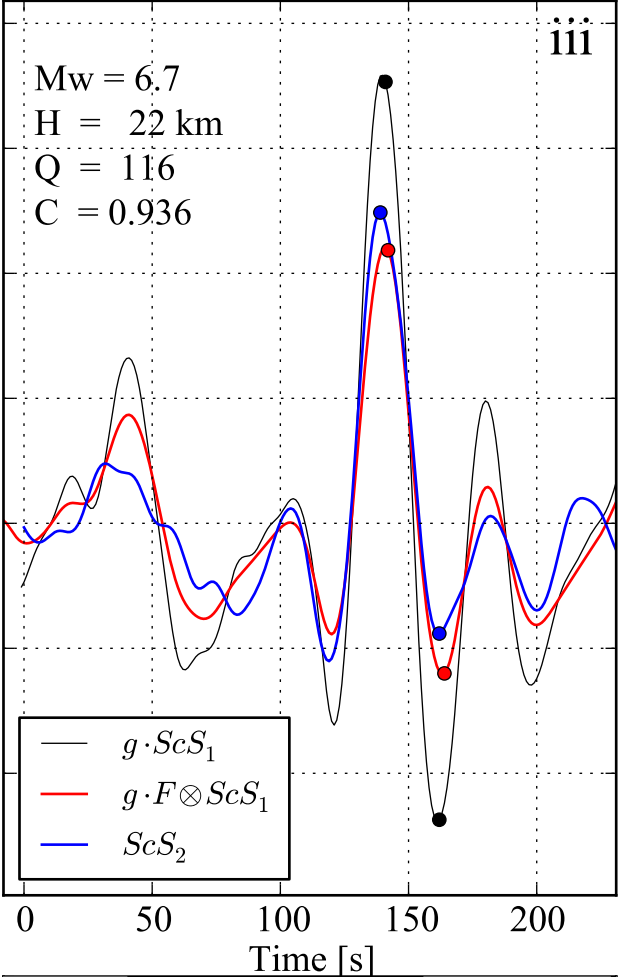
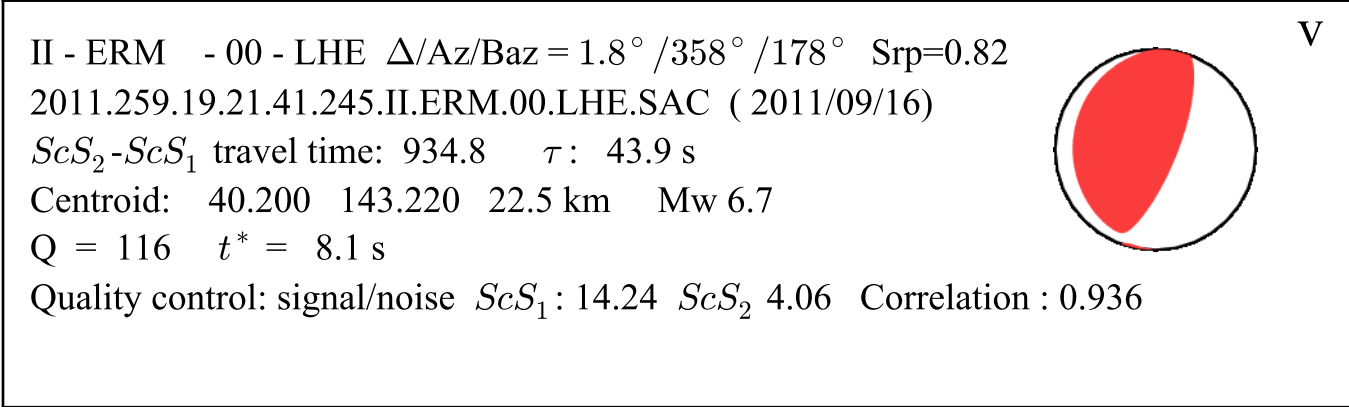
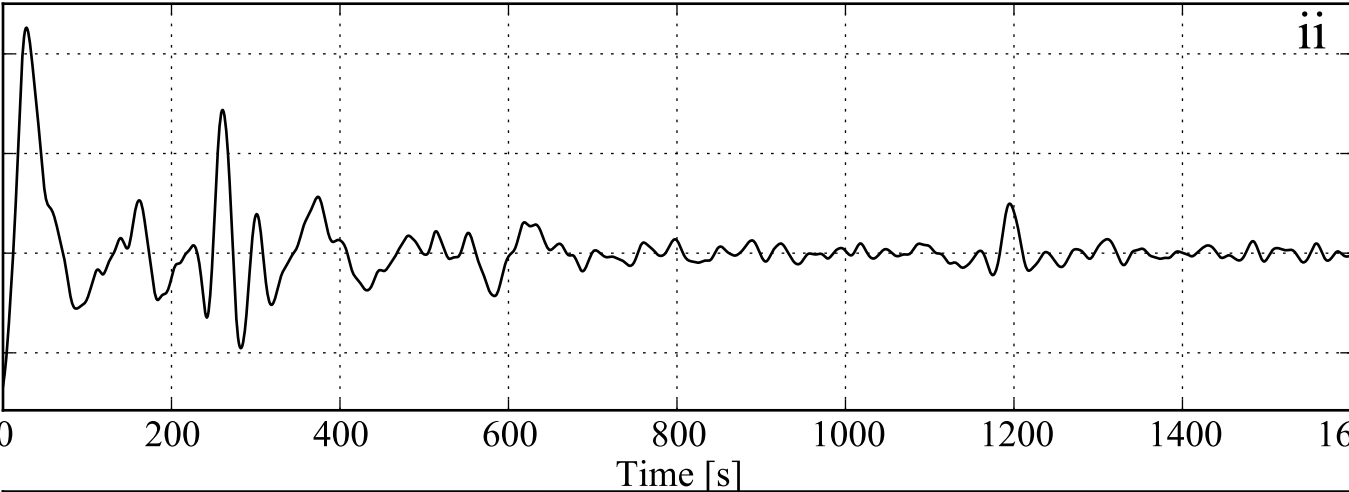
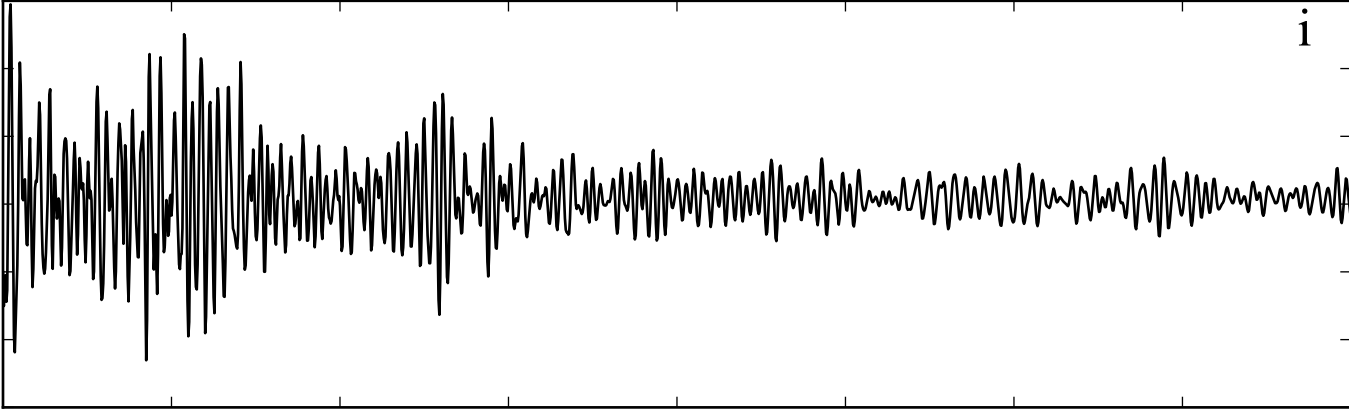


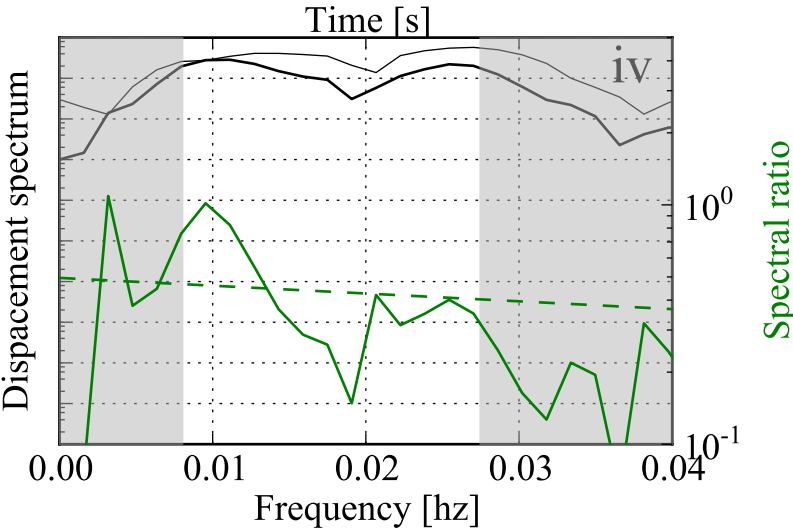
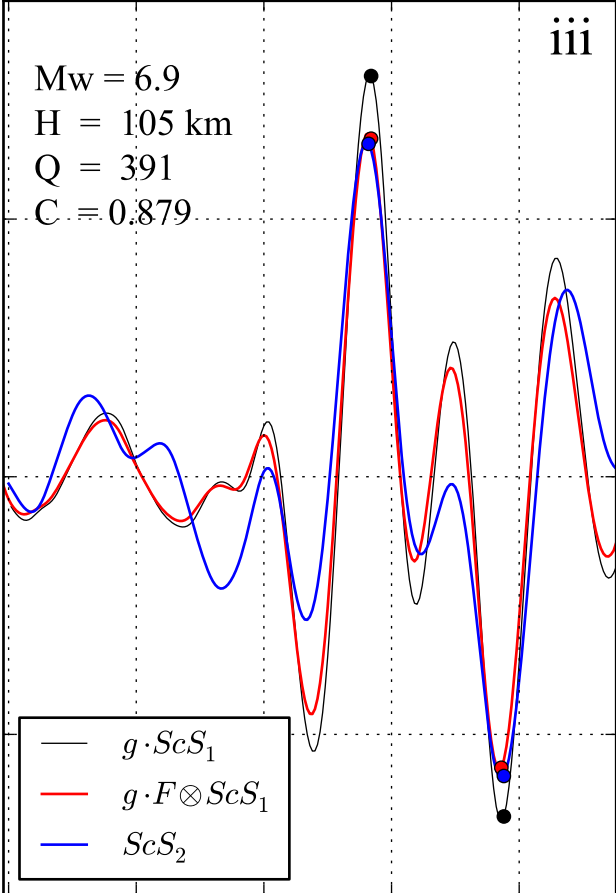
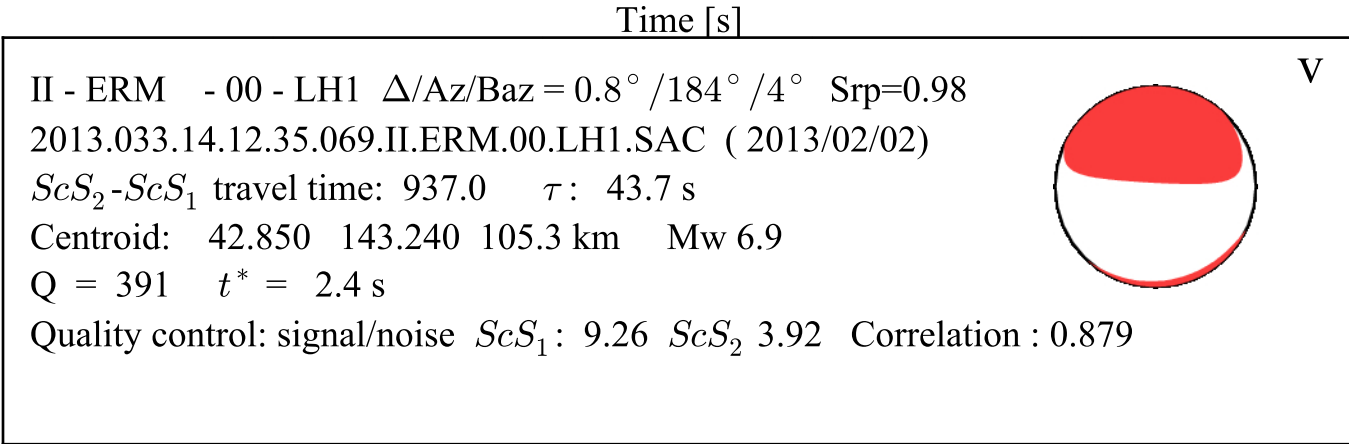
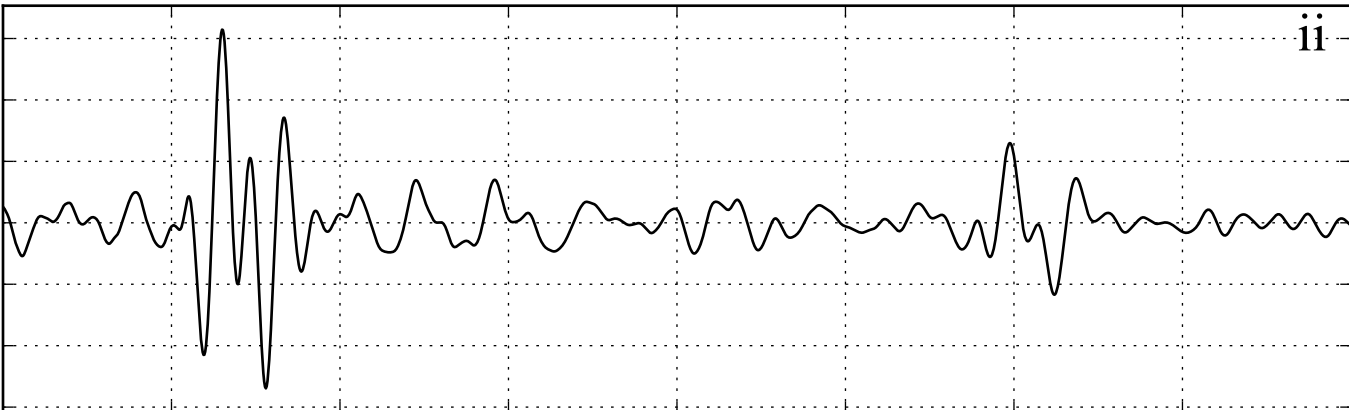
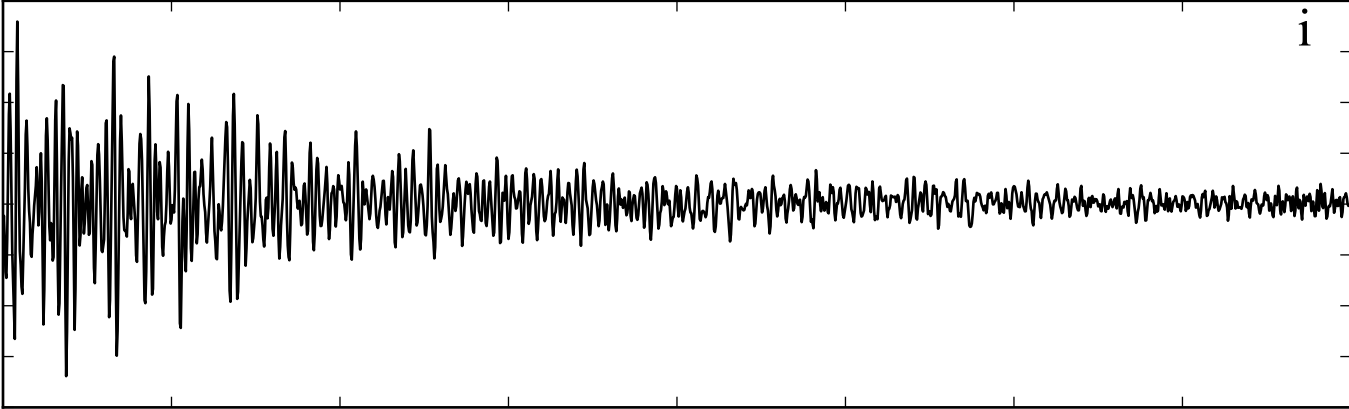
Time [s]

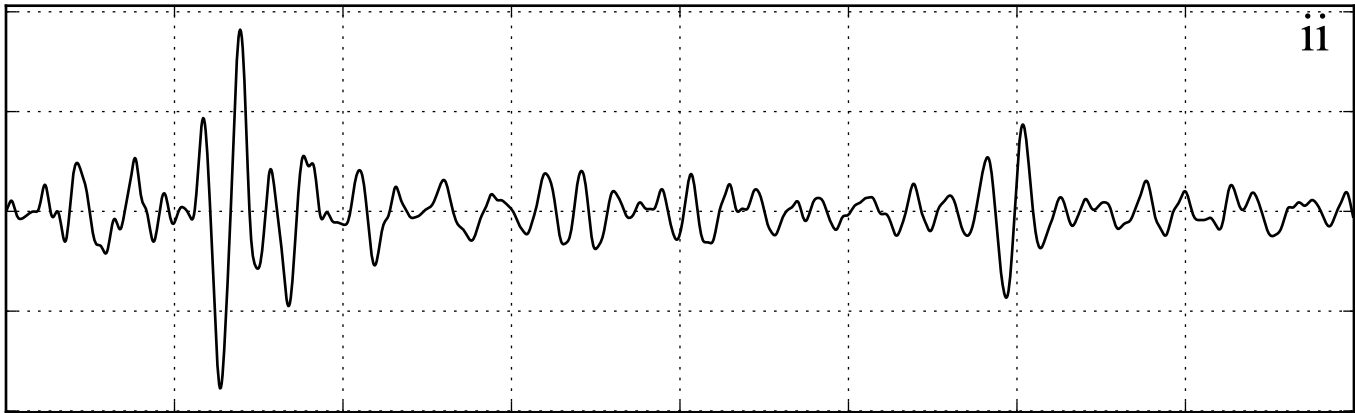
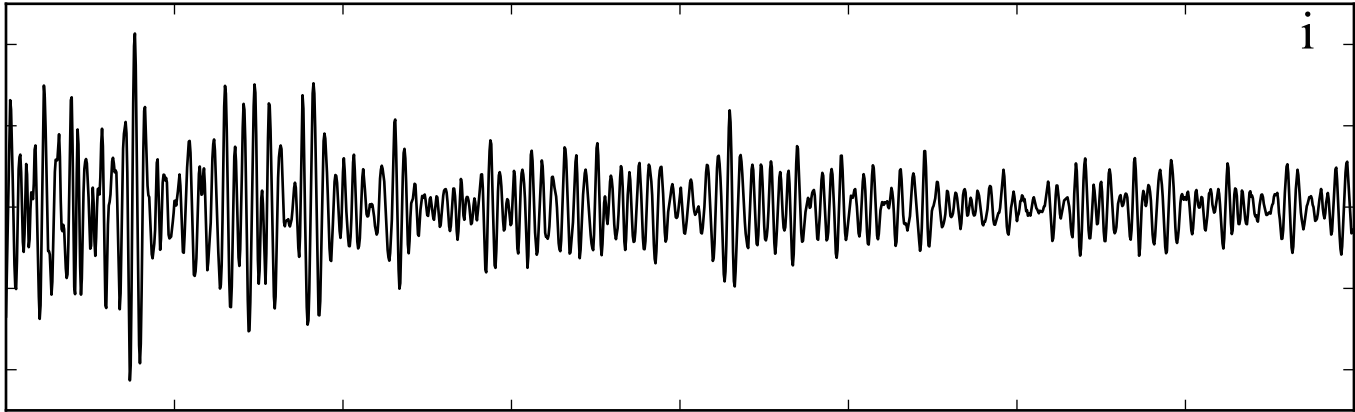






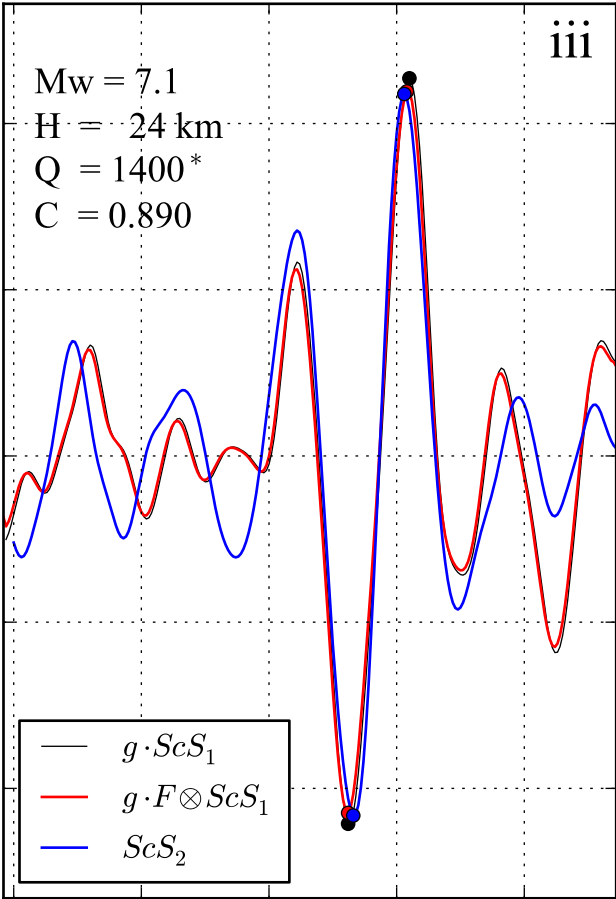




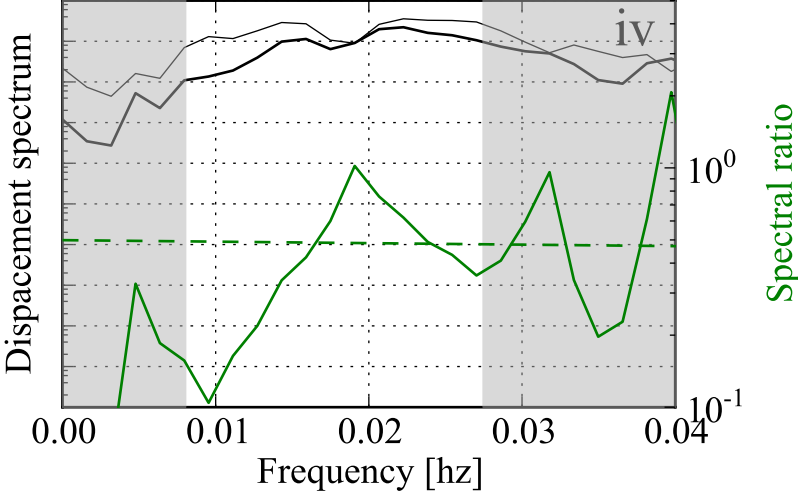


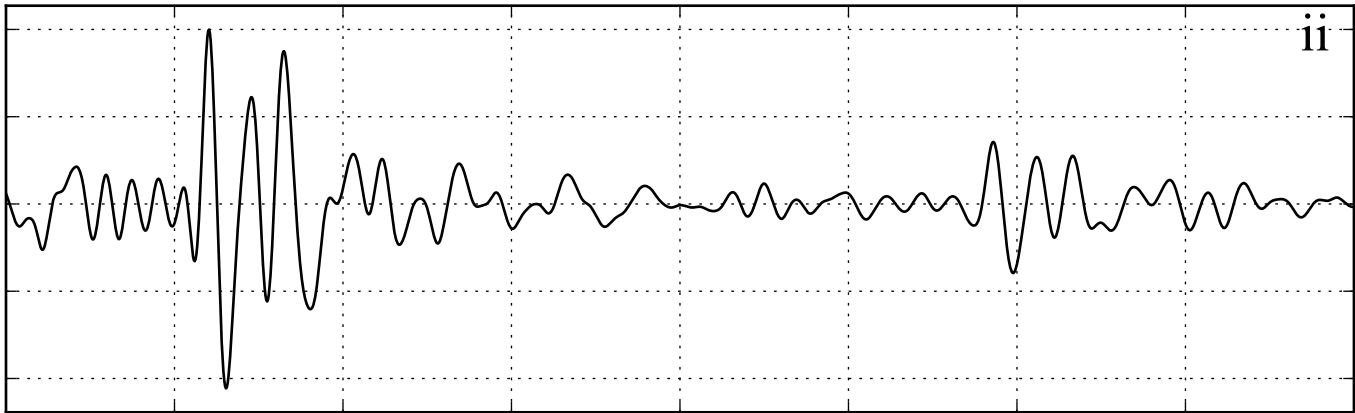
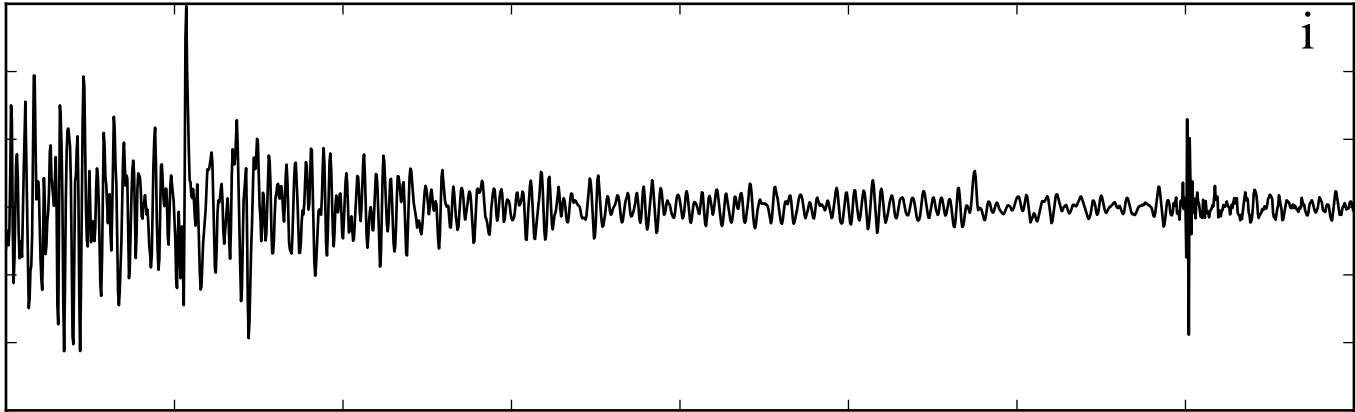
Time [s]

II - ERM - 10 - LH2 $\Delta/Az/Baz = 5.0^\circ / 346^\circ / 166^\circ$ Srp=0.24
2013.298.17.05.19.069.II.ERM.10.LH2.SAC (2013/10/25)
 ScS_2 - ScS_1 travel time: 931.8 τ : 44.3 s
Centroid: 37.170 144.660 24.9 km Mw 7.1
 $Q = 1400^*$ $t^* = 0.5$ s
Quality control: signal/noise ScS_1 : 8.26 ScS_2 3.99 Correlation : 0.890

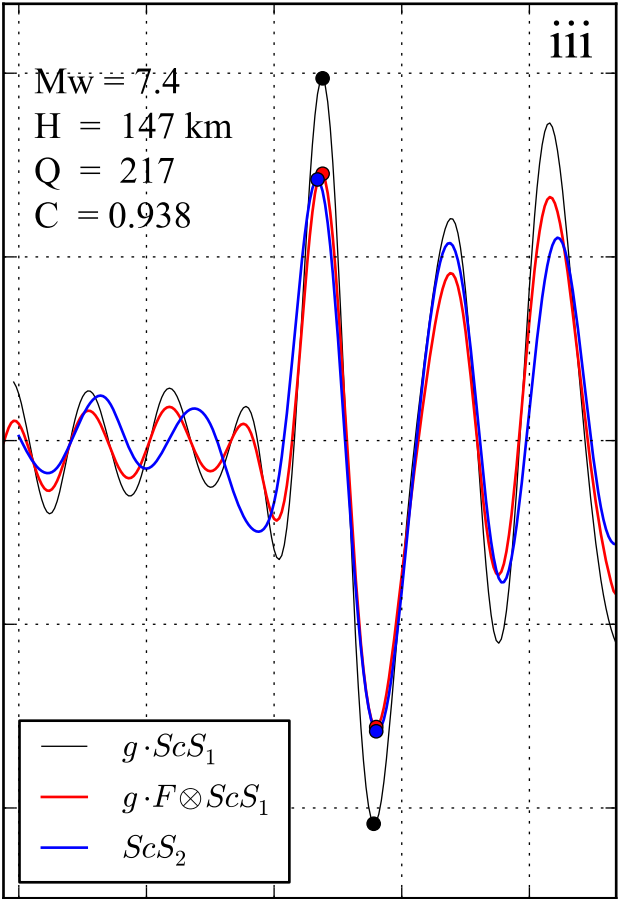
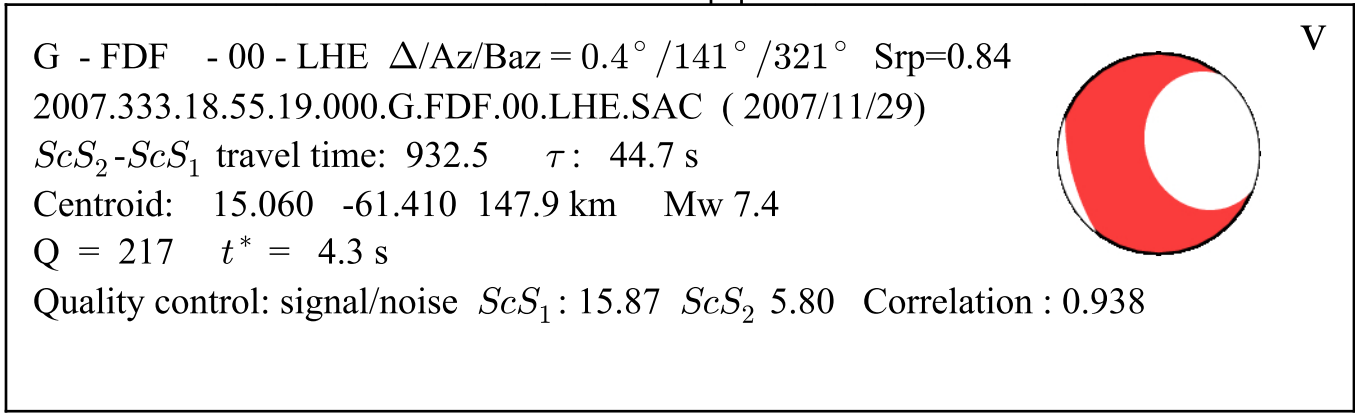


Time [s]

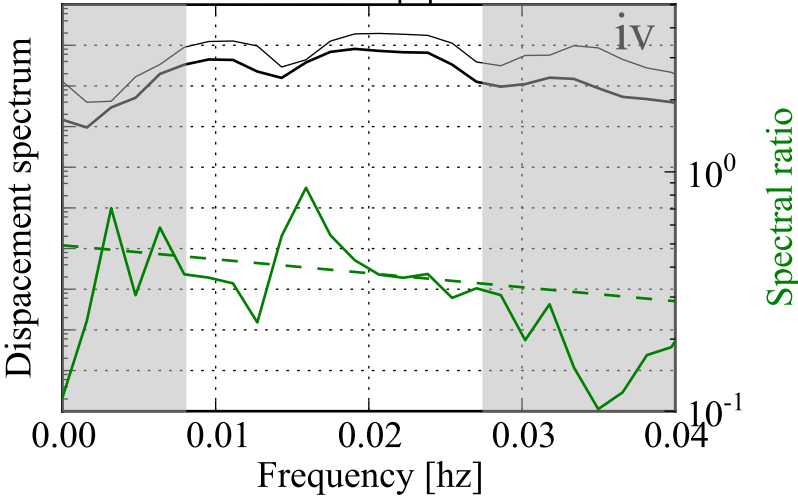


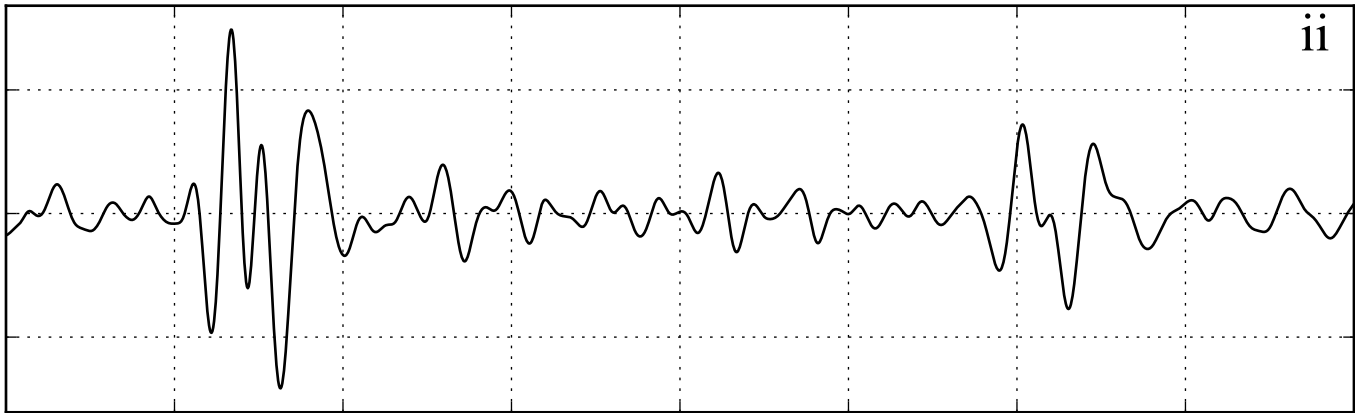
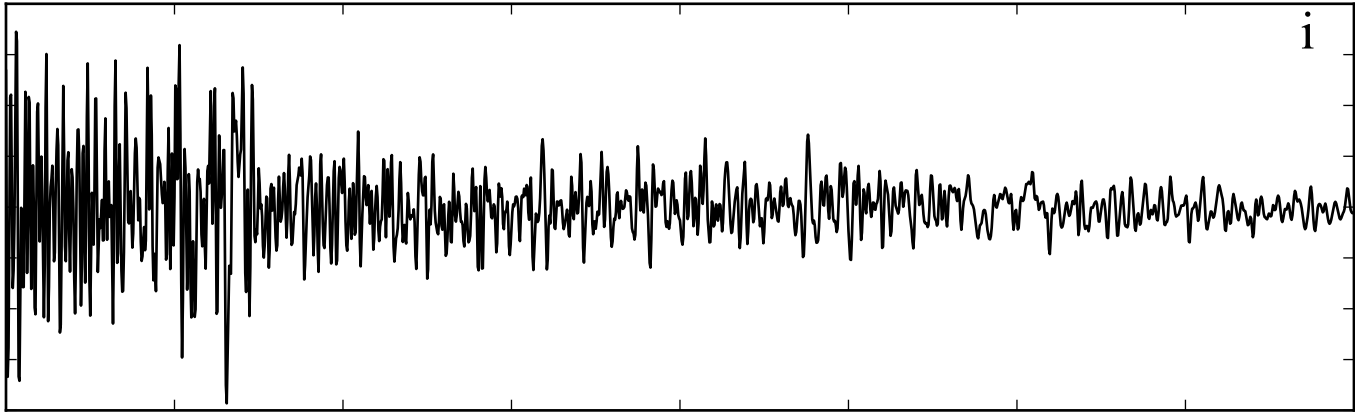


Time [s]



Time [s]




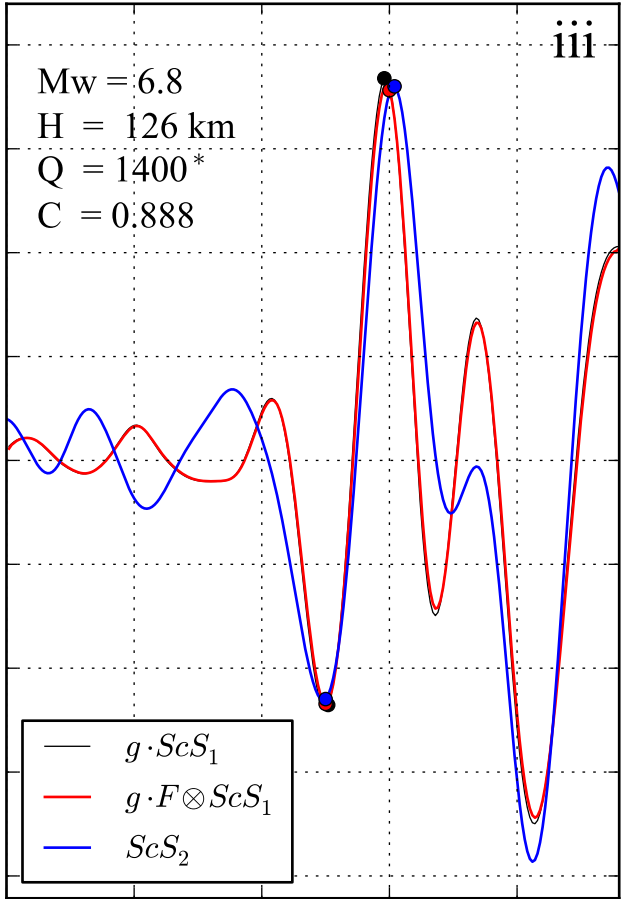


Time [s]

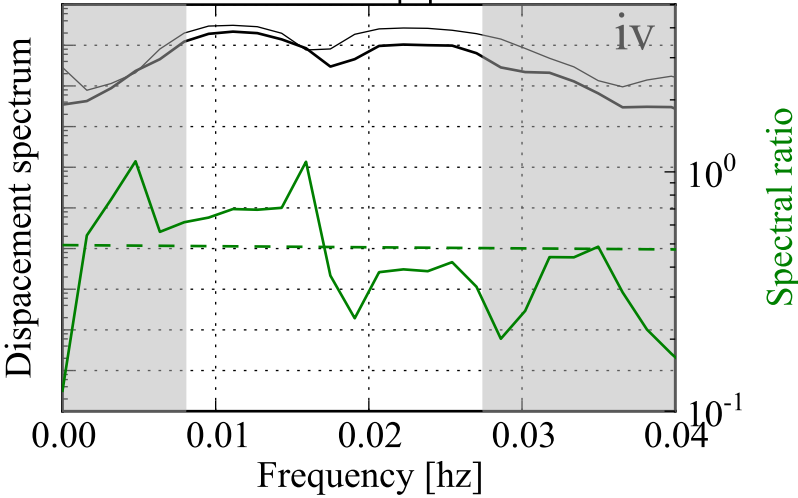
II - GAR - 00 - LHN $\Delta/Az/Baz = 3.0^\circ/1^\circ/181^\circ$ $Srp=0.84$
1991.031.22.58.34.000.II.GAR.00.LHN.SAC (1991/01/31)
 ScS_2-ScS_1 travel time: 936.3 τ : 47.0 s
Centroid: 36.010 70.230 126.1 km Mw 6.8
 $Q = 1400^*$ $t^* = 0.3$ s
Quality control: signal/noise ScS_1 : 7.12 ScS_2 3.44 Correlation : 0.888

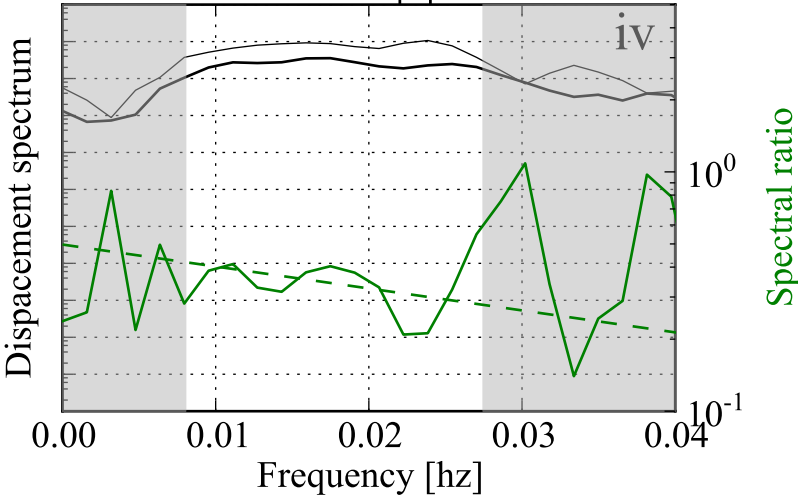
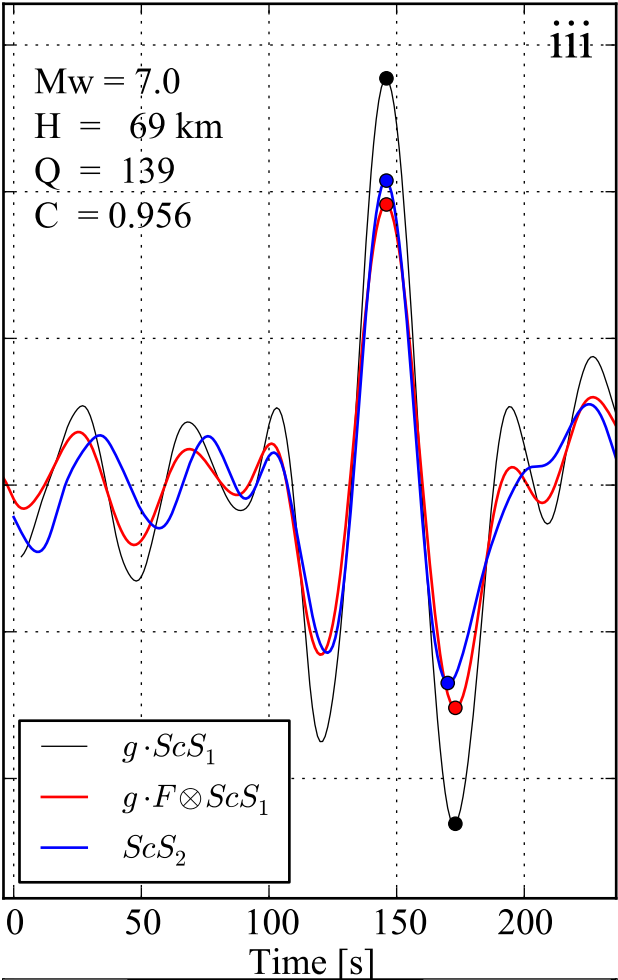
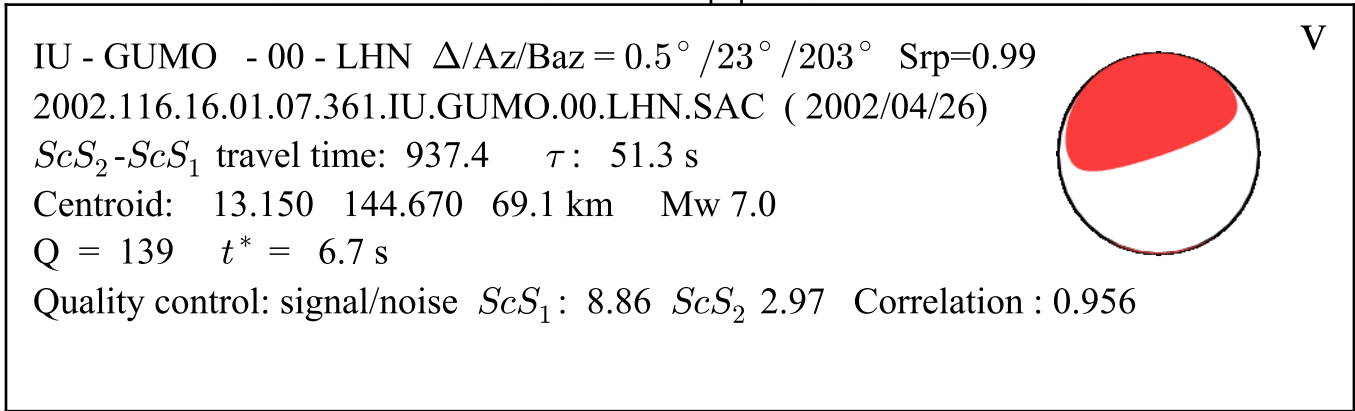
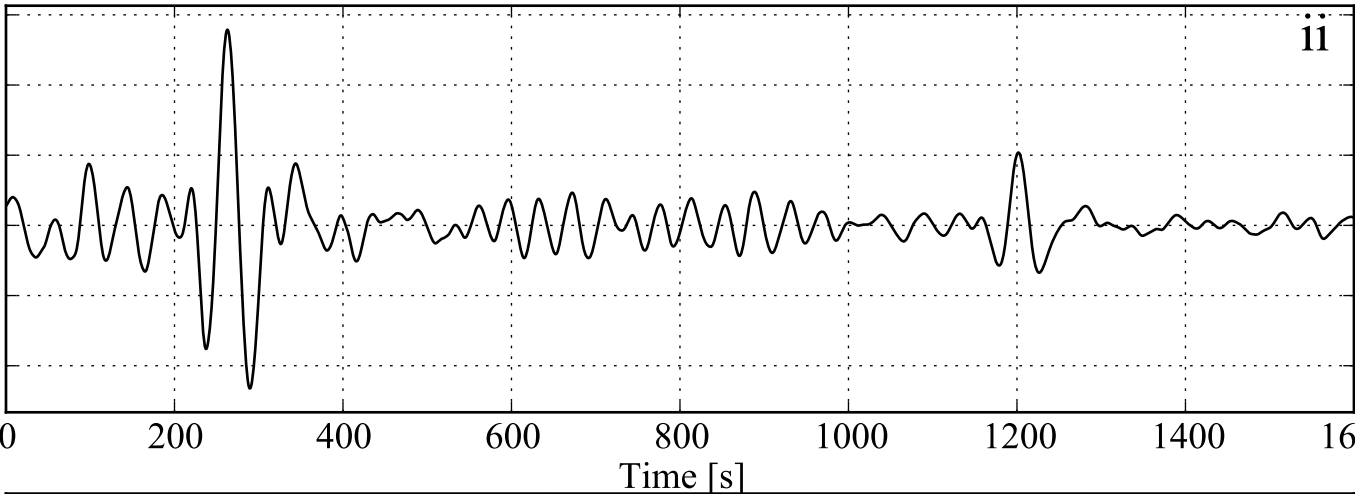
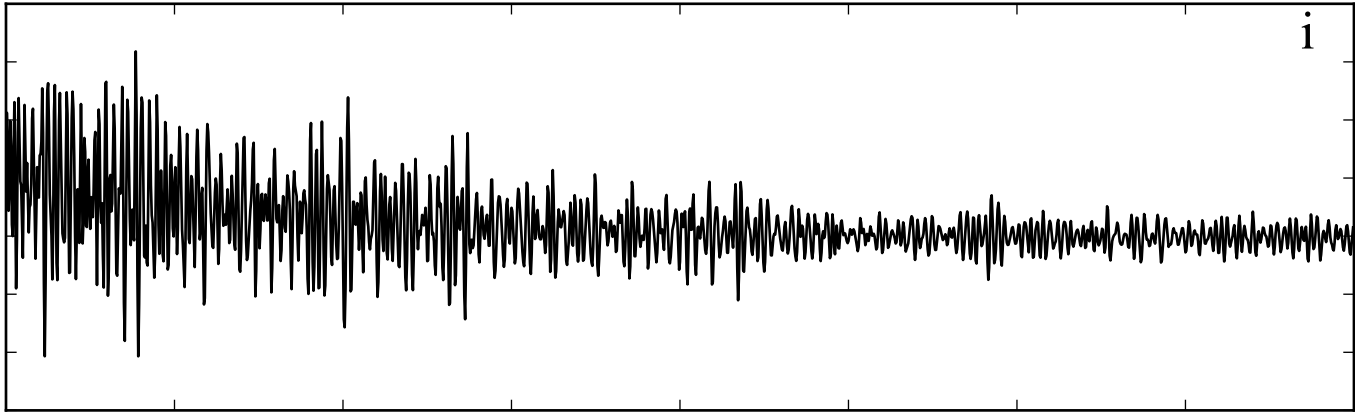
v

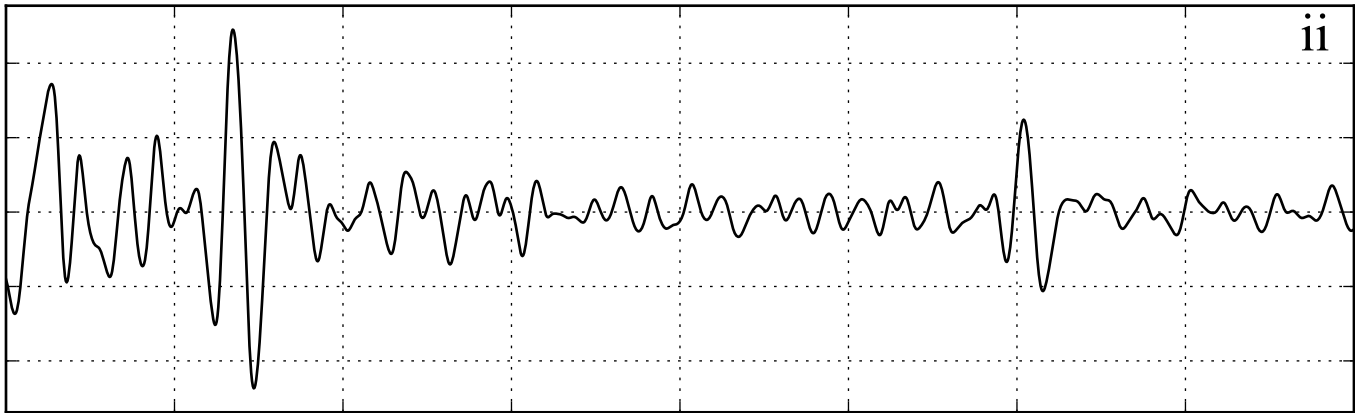
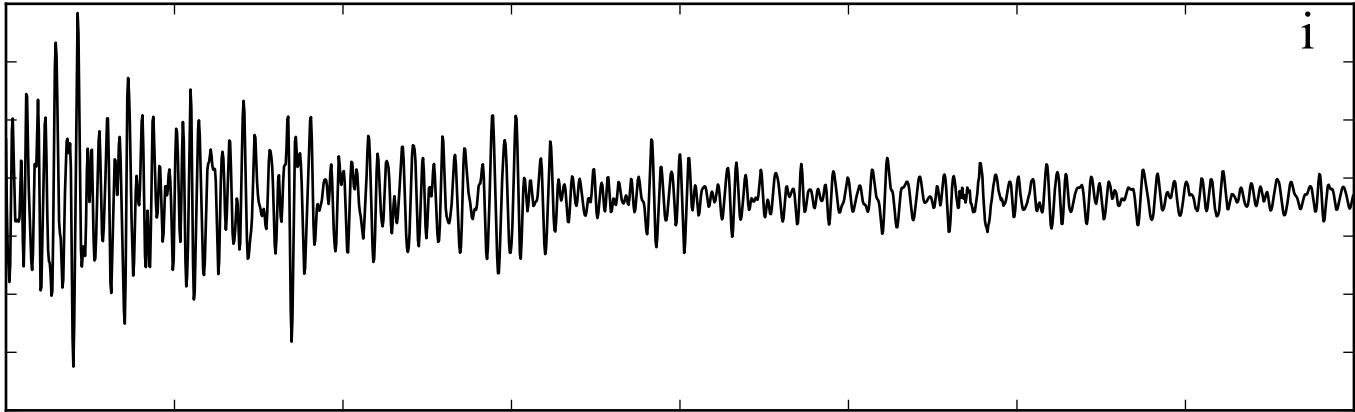




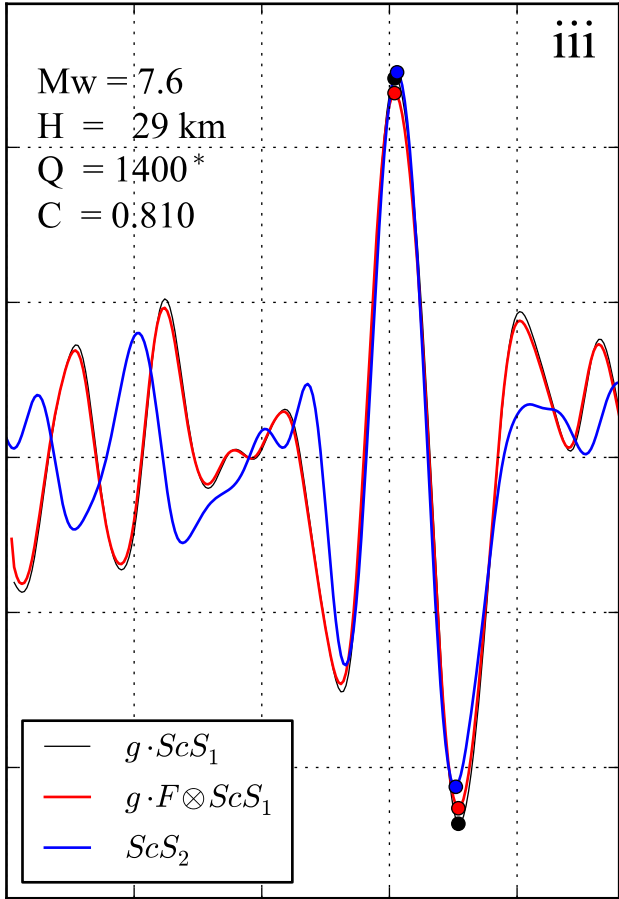
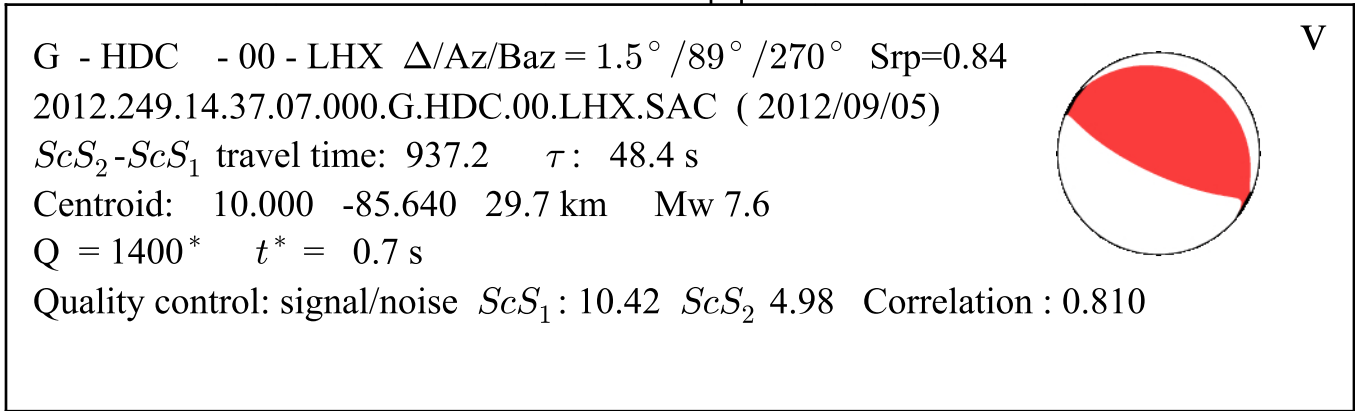
Time [s]



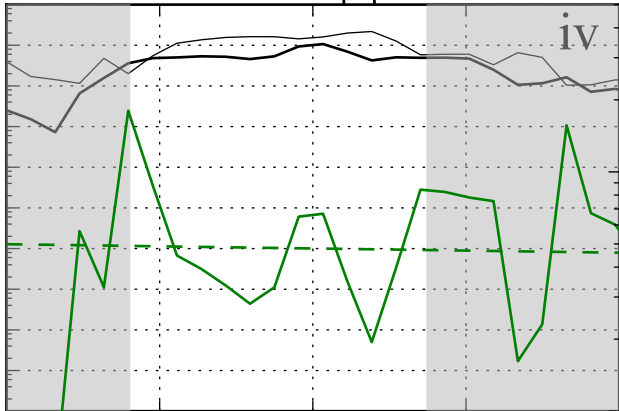




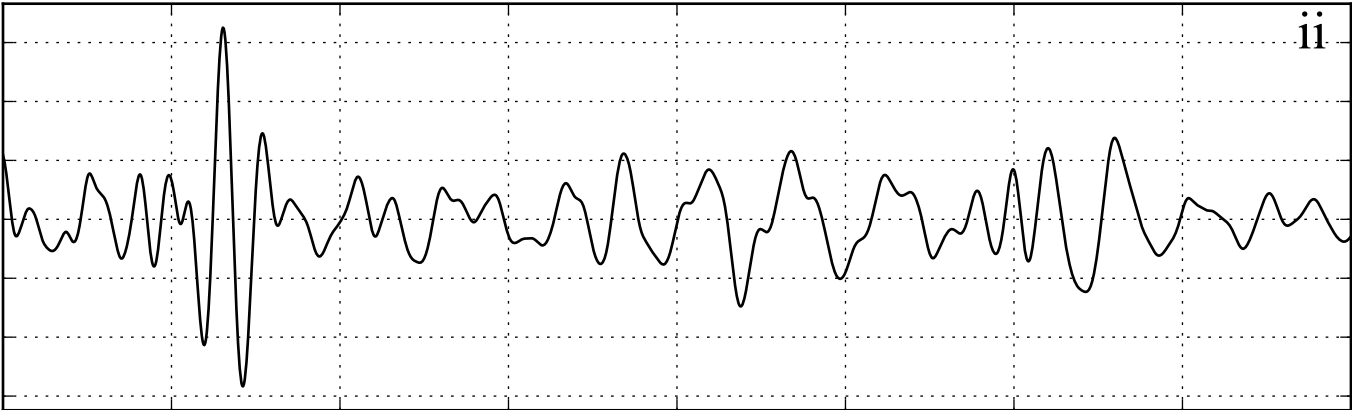
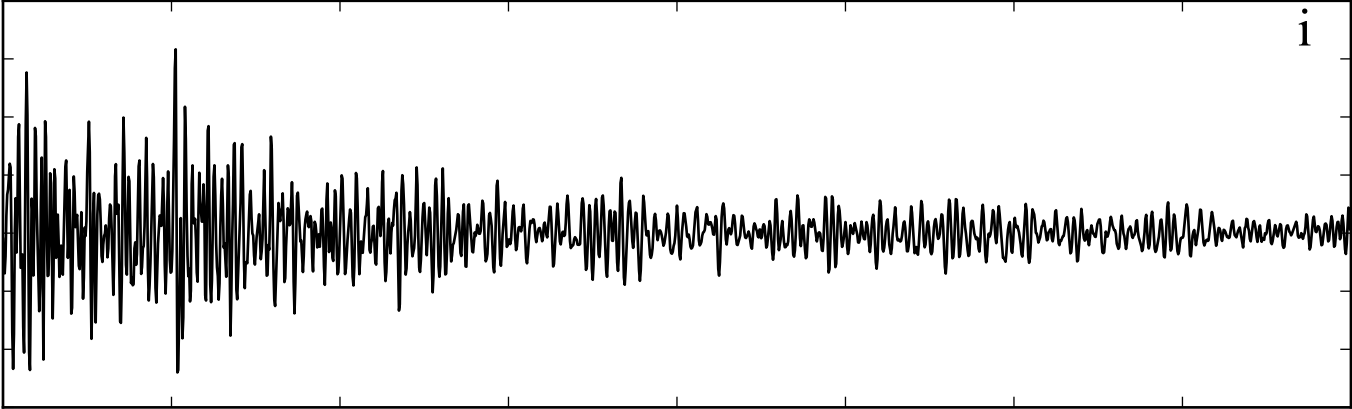
Time [s]



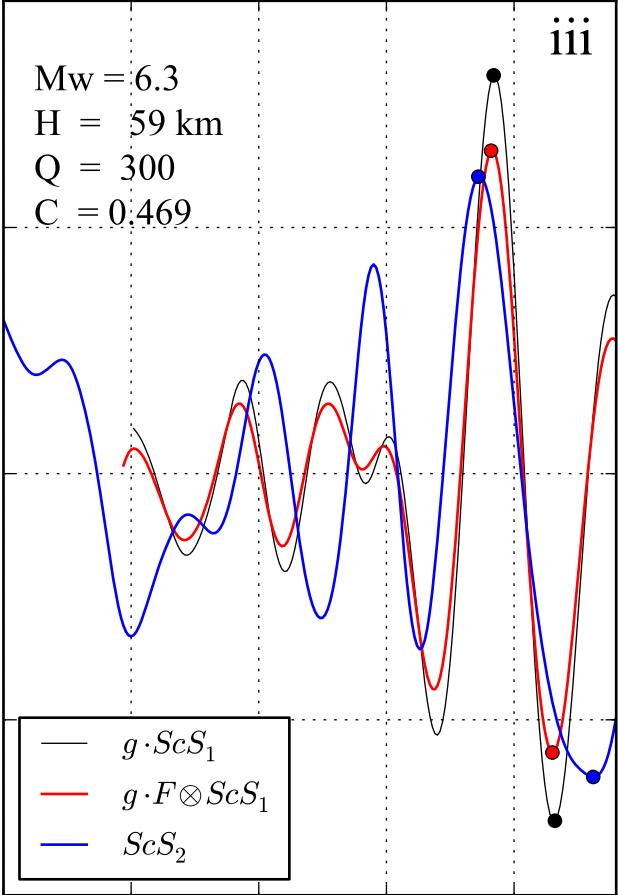
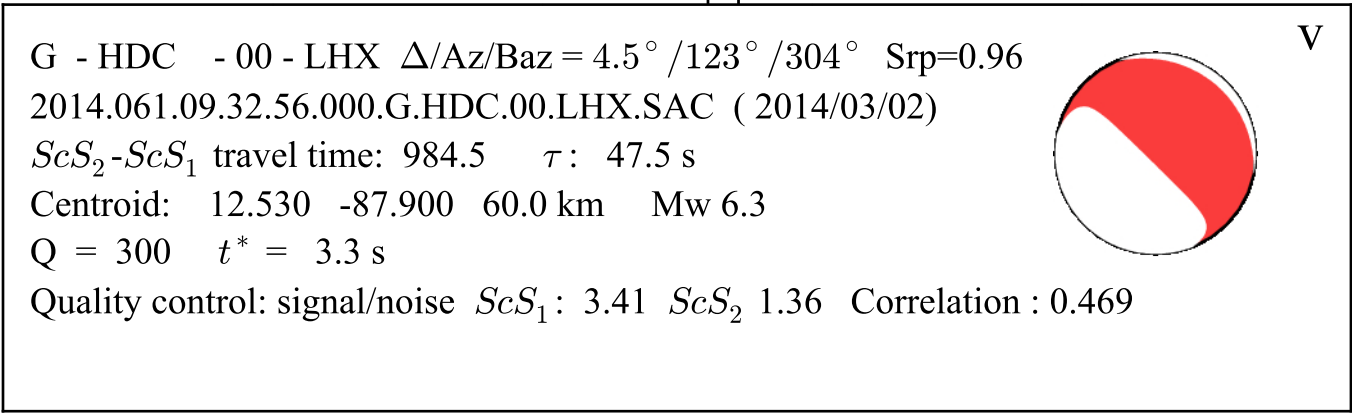
Time [s]



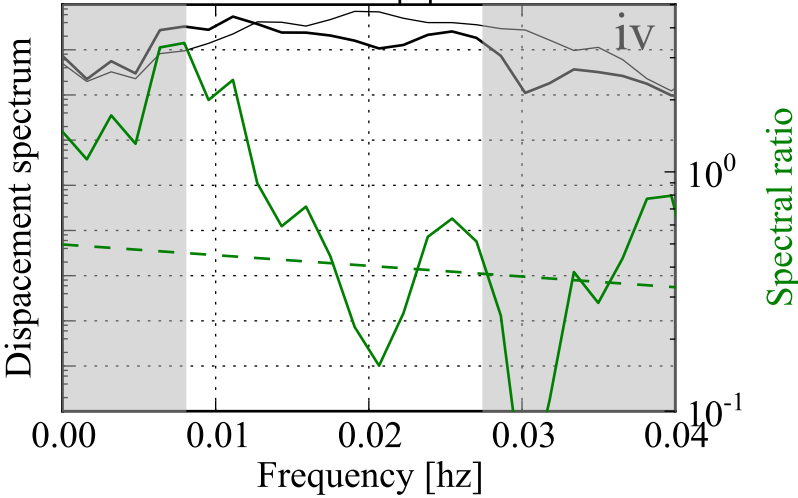
Frequency [hz]

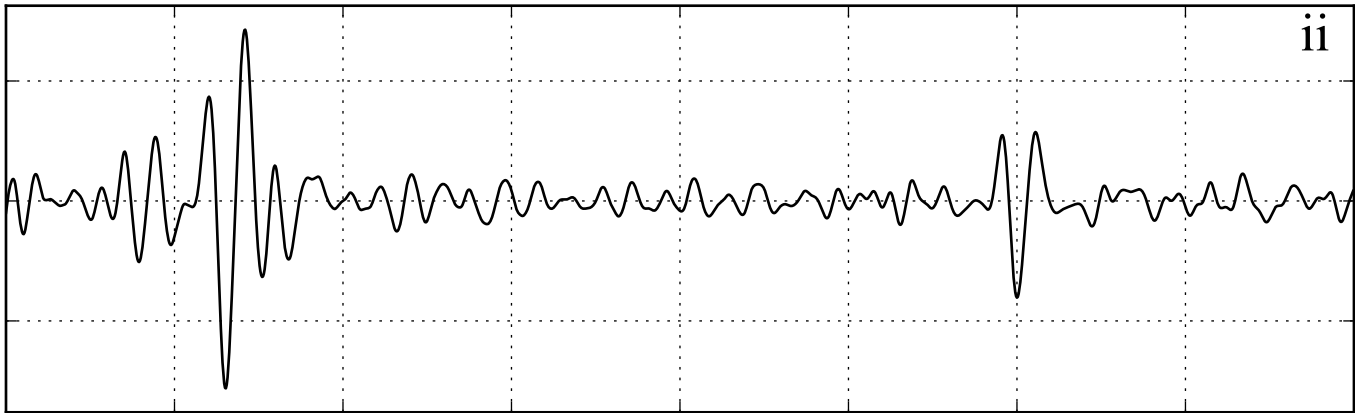
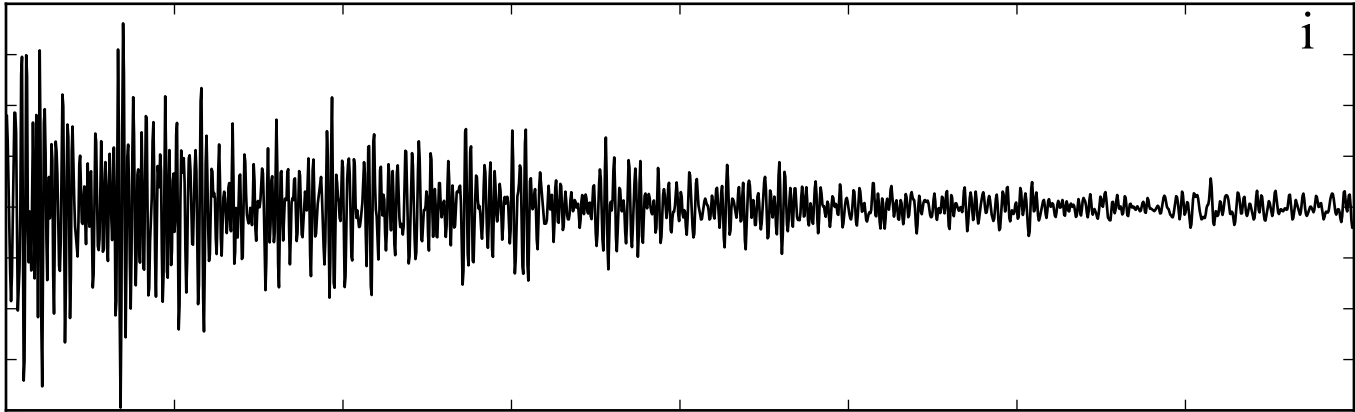


Time [s]

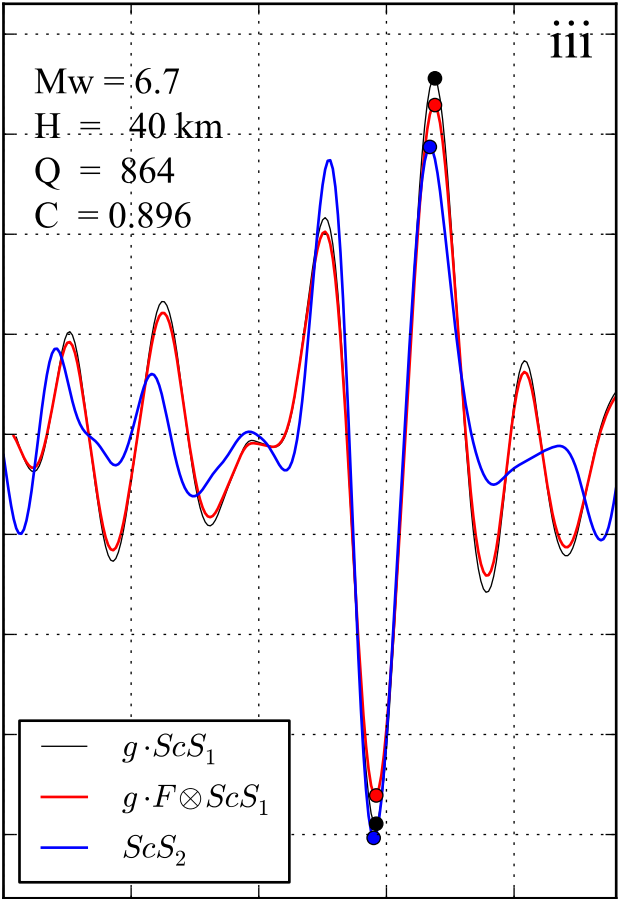
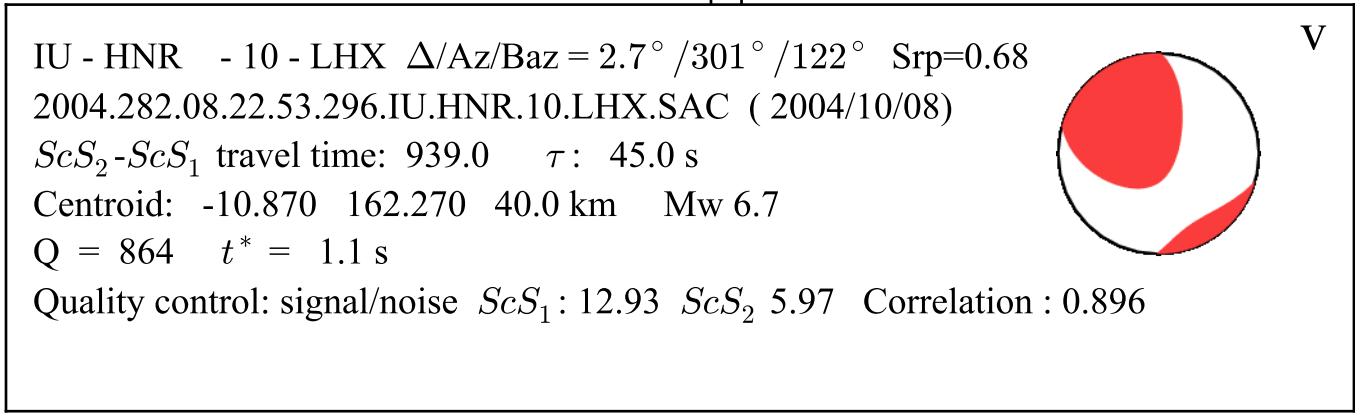


Time [s]

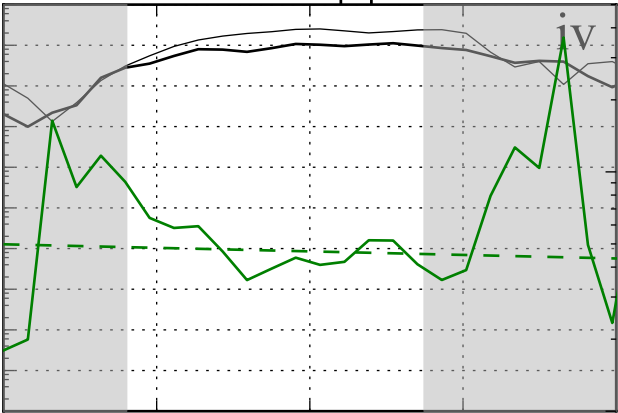




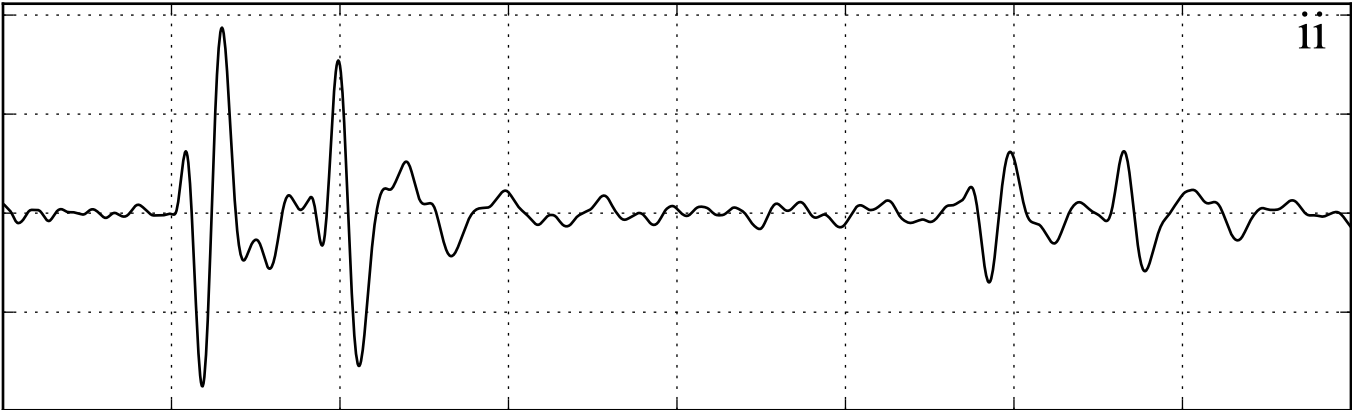
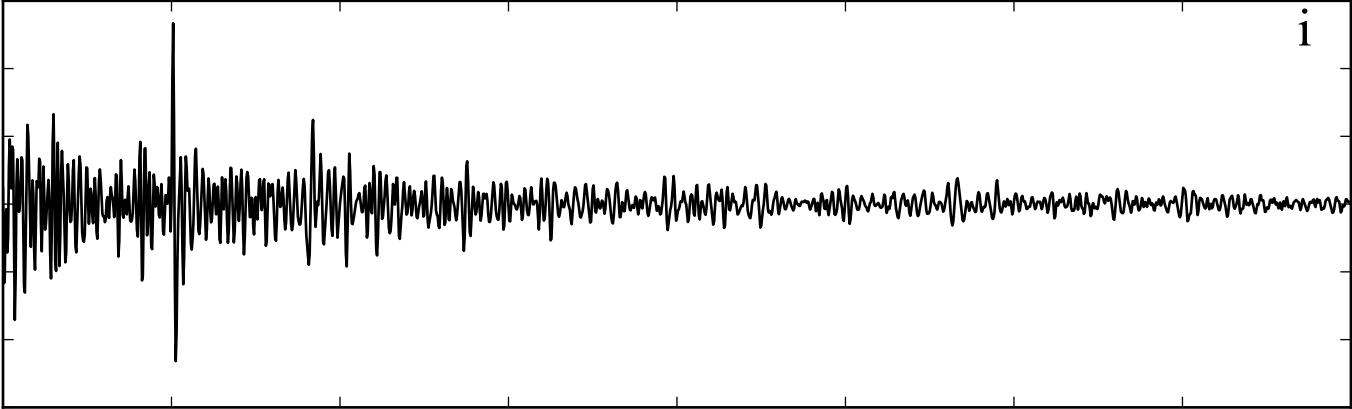
Time [s]



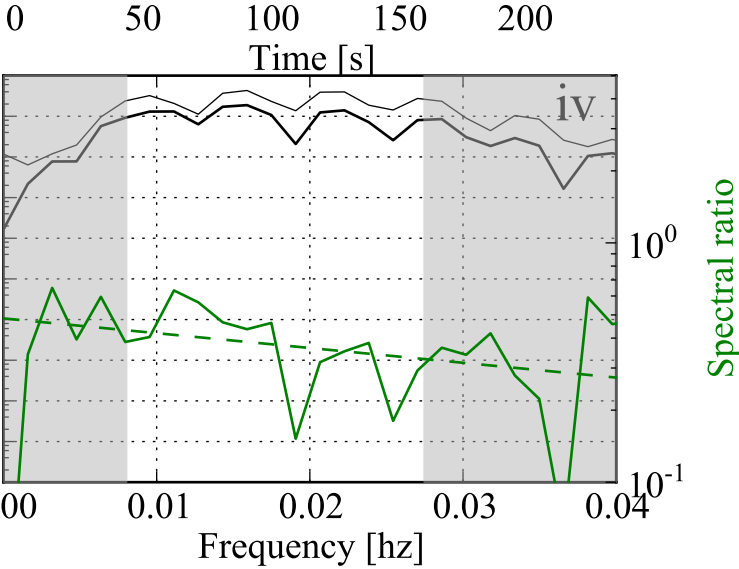
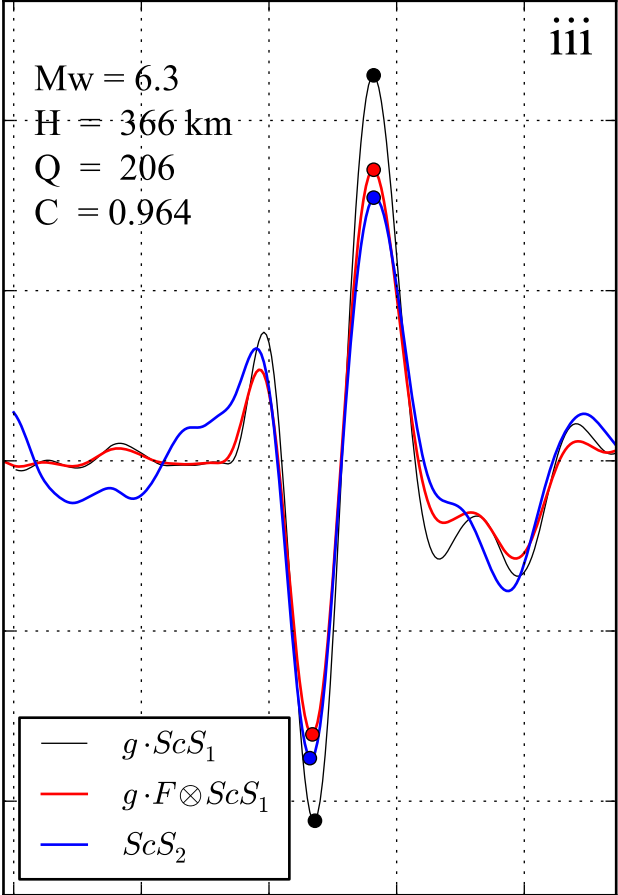
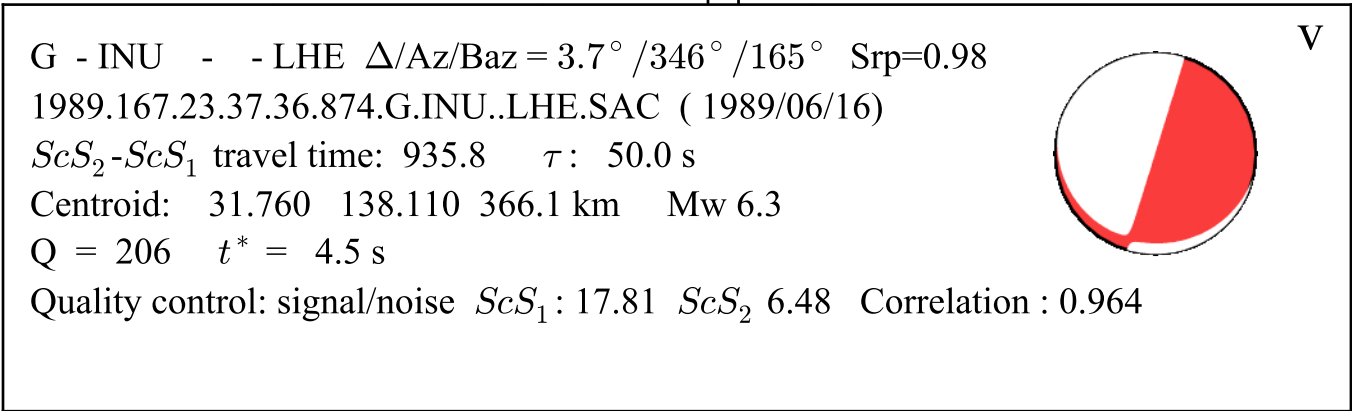
Time [s]

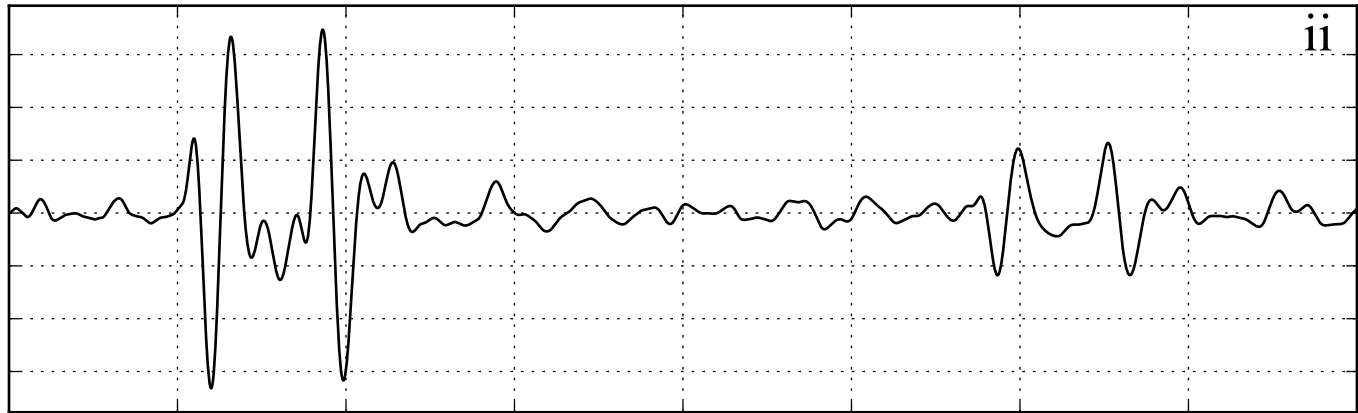
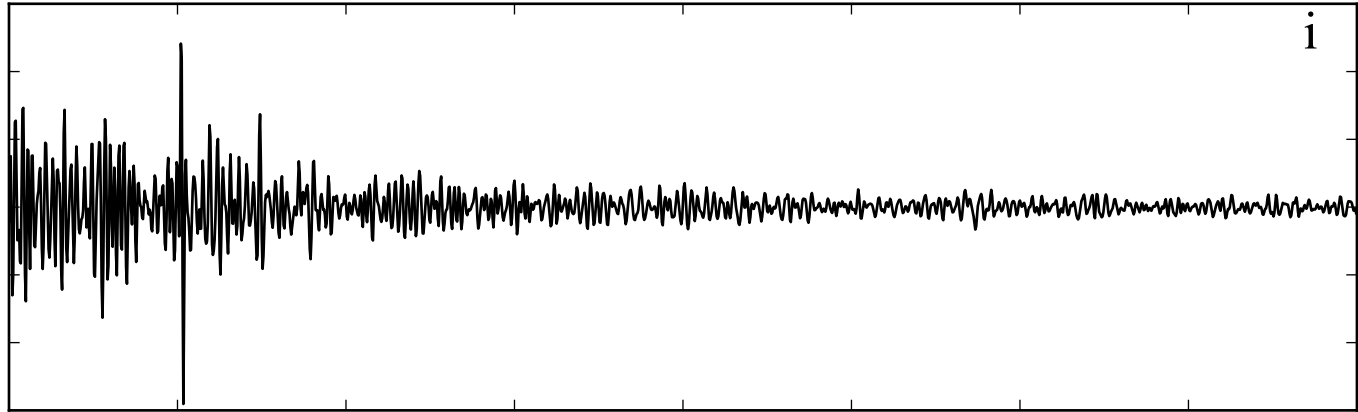


Frequency [hz]

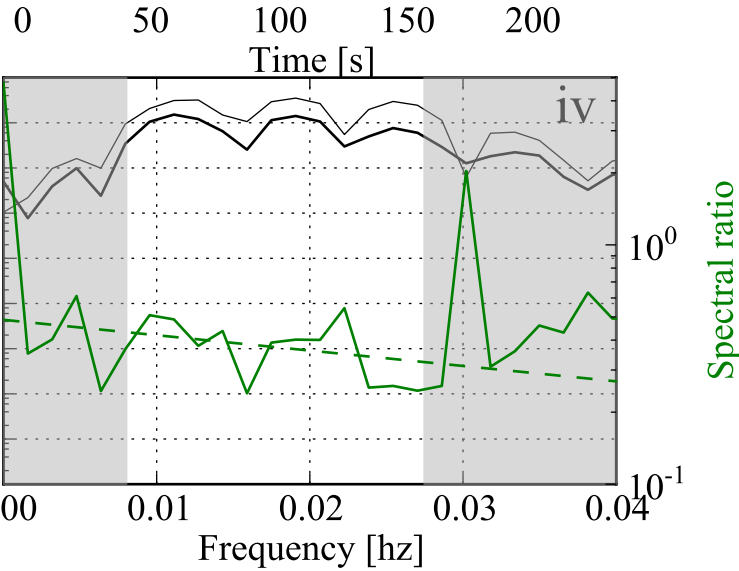
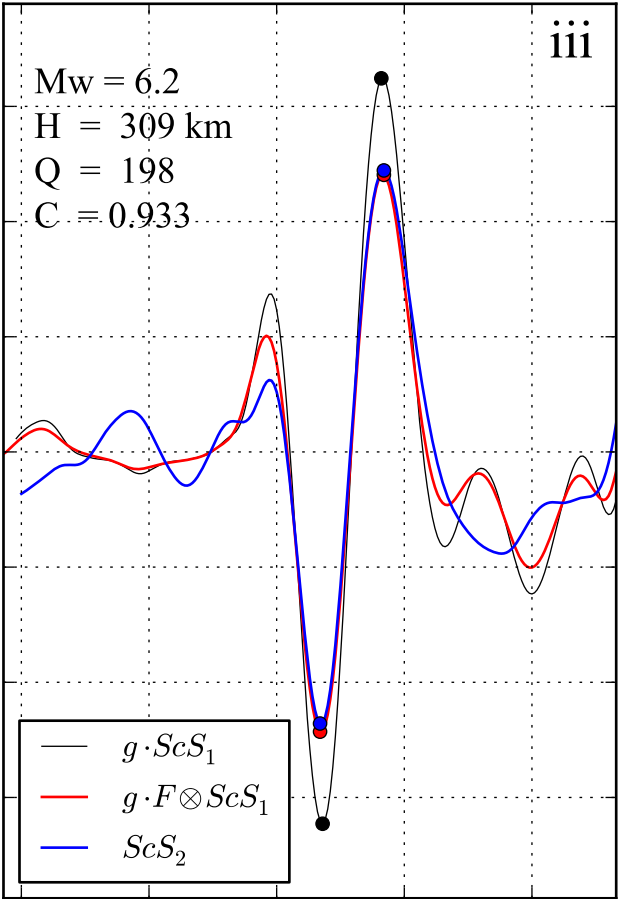
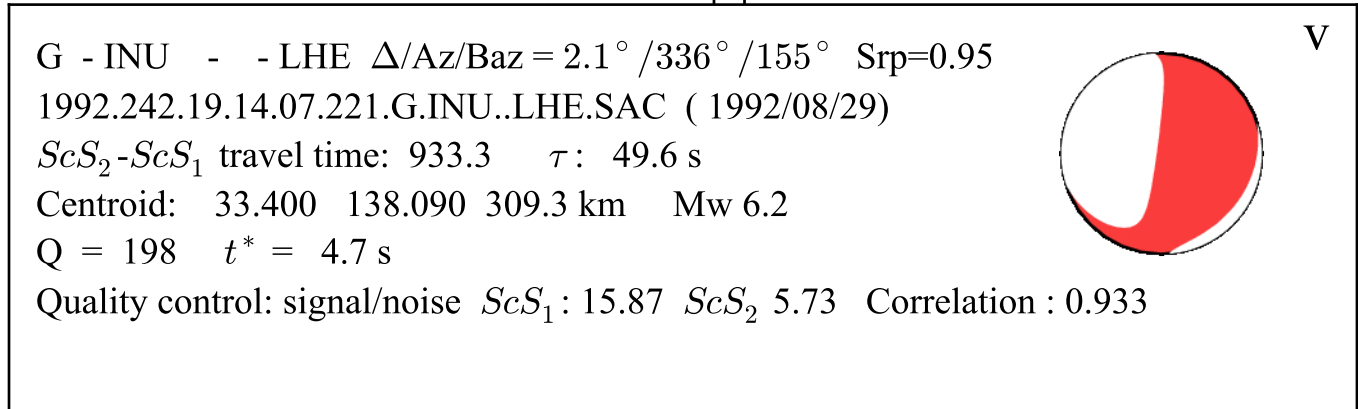


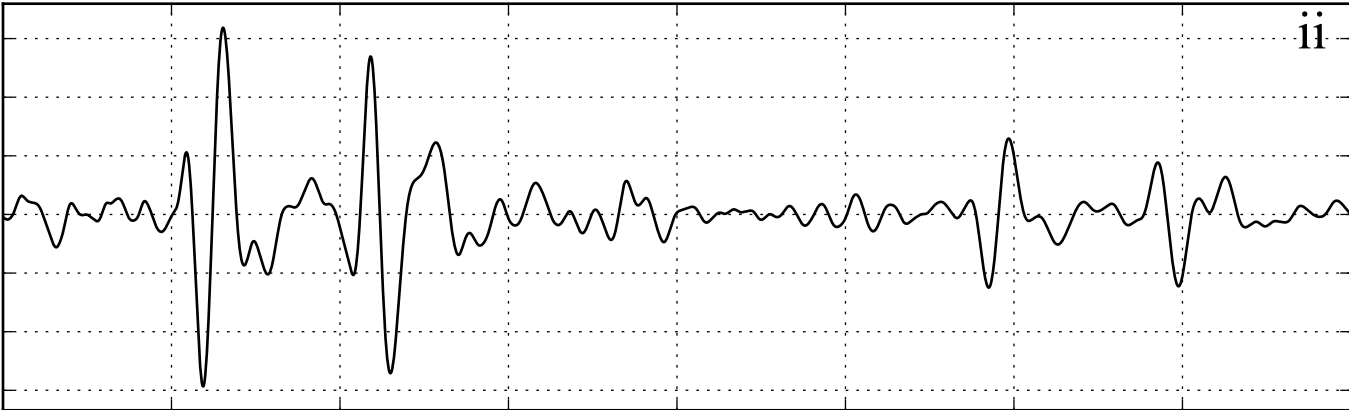
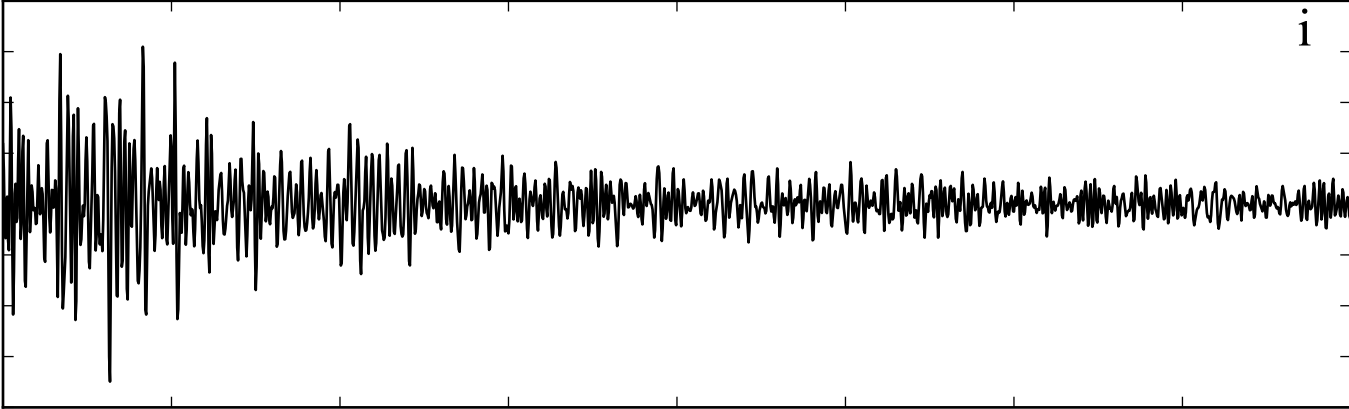
Time [s]





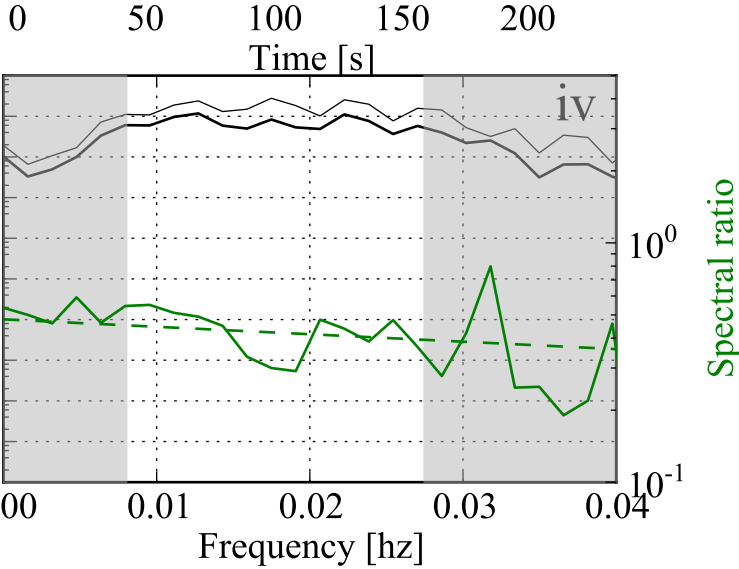
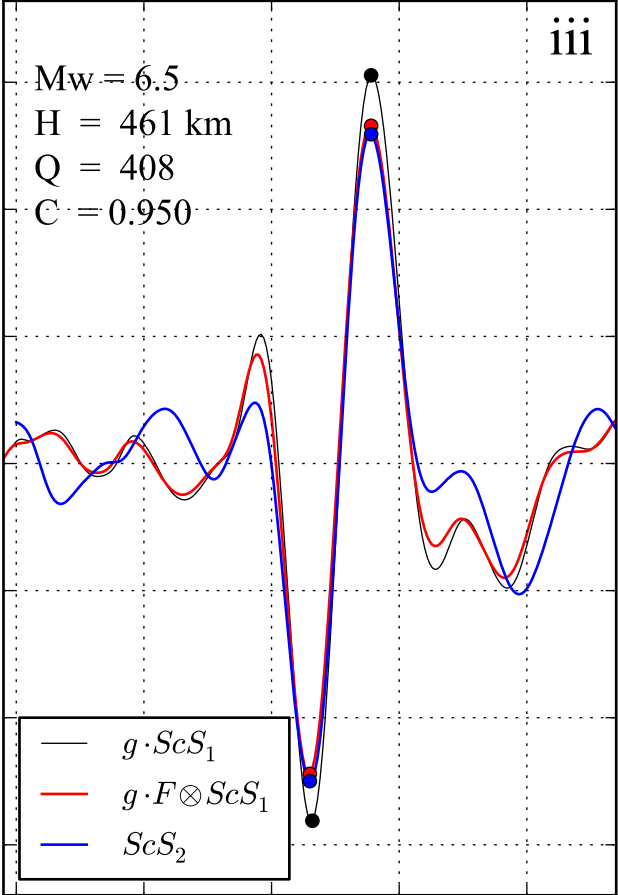
Time [s]

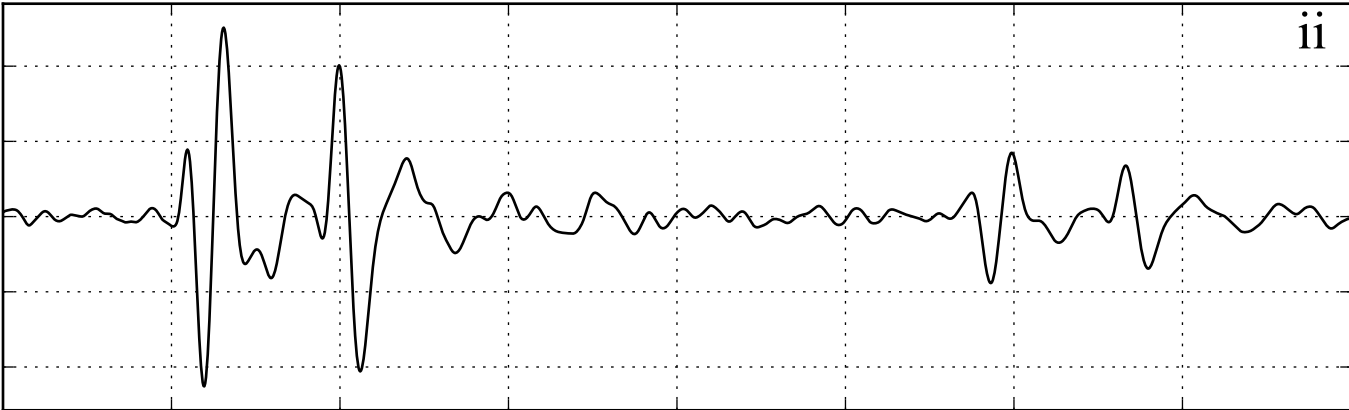
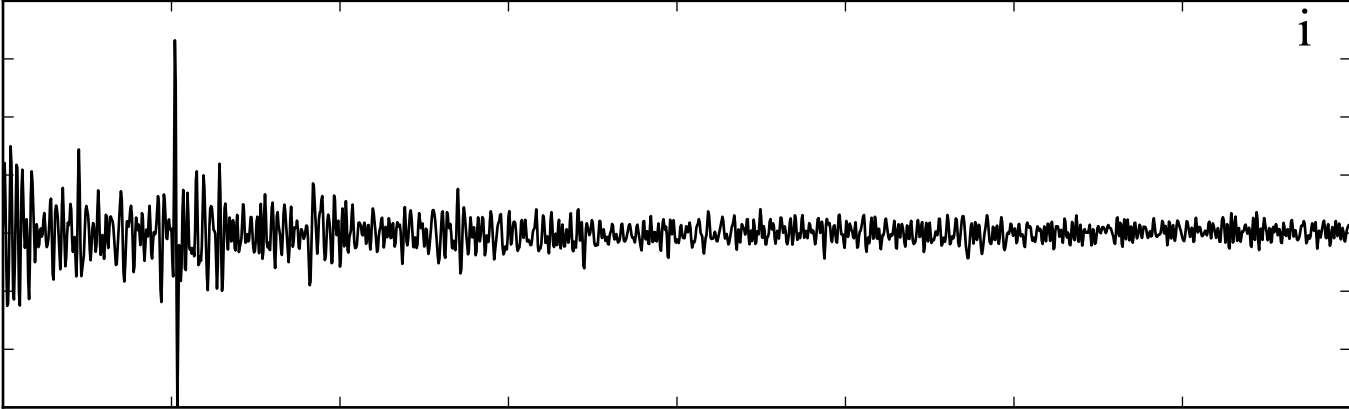




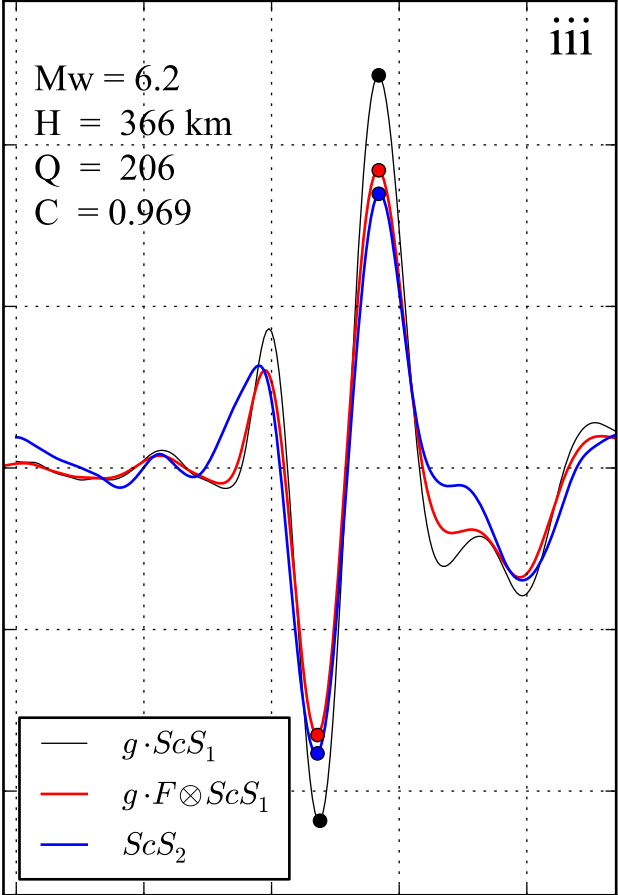
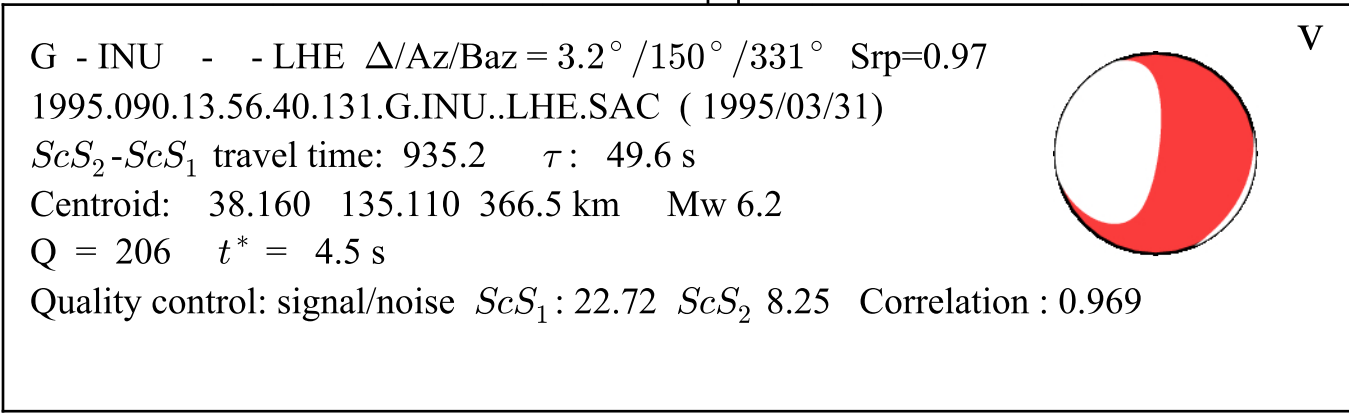
Time [s]

G - INU - - LHE $\Delta/Az/Baz = 4.1^\circ/142^\circ/324^\circ$ $Srp=0.53$
1993.019.14.34.26.500.G.INU..LHE.SAC (1993/01/19)
 ScS_2-ScS_1 travel time: 932.9 τ : 50.5 s
Centroid: 38.700 133.960 461.6 km Mw 6.5
 $Q = 408$ $t^* = 2.3$ s
Quality control: signal/noise ScS_1 : 17.43 ScS_2 7.25 Correlation : 0.950

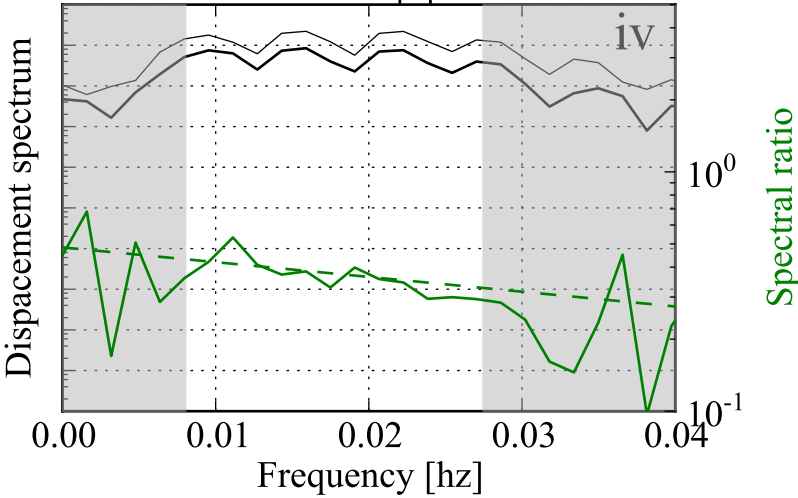


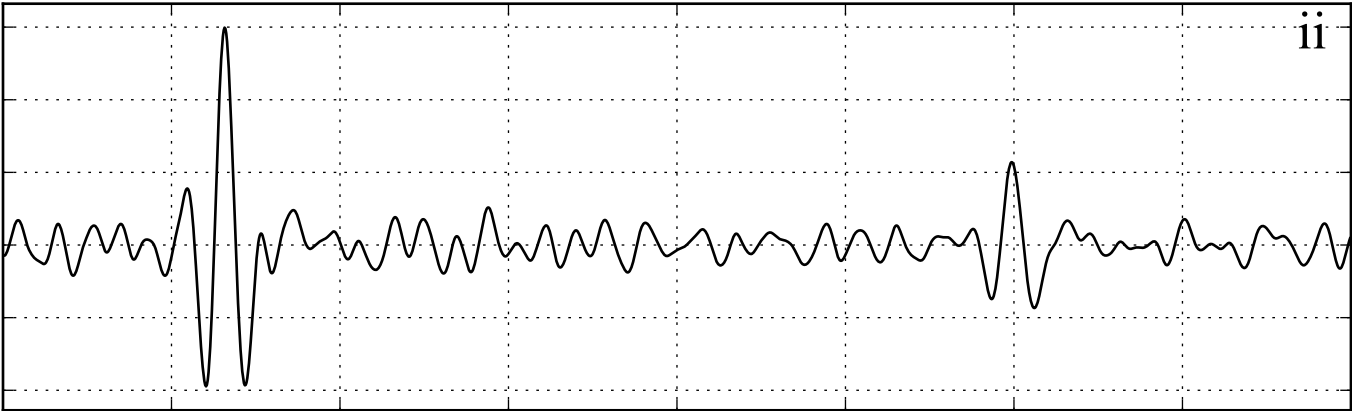
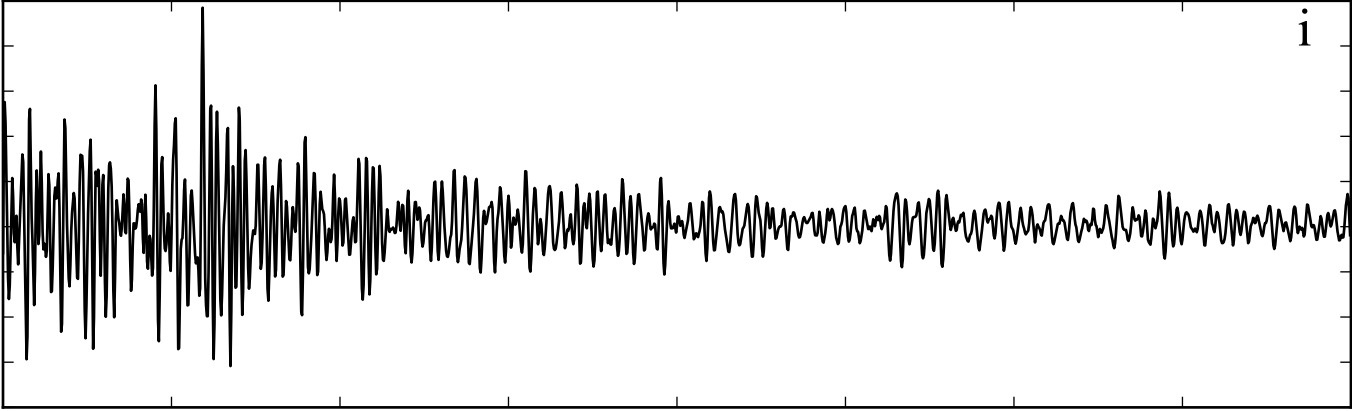


Time [s]

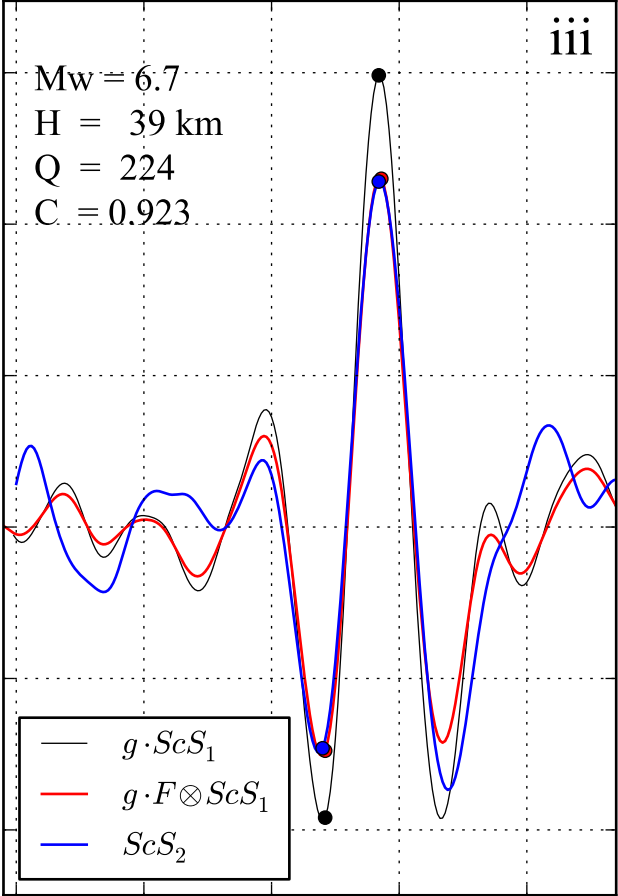
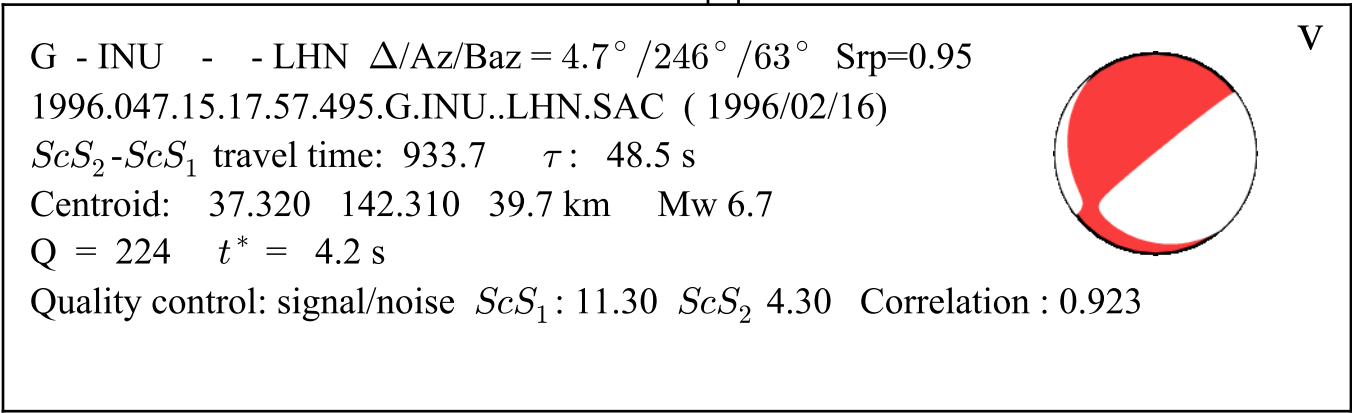


Time [s]

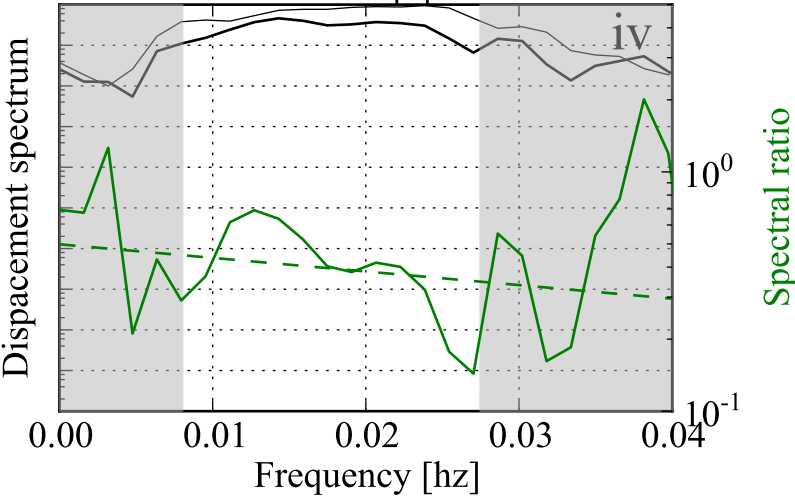


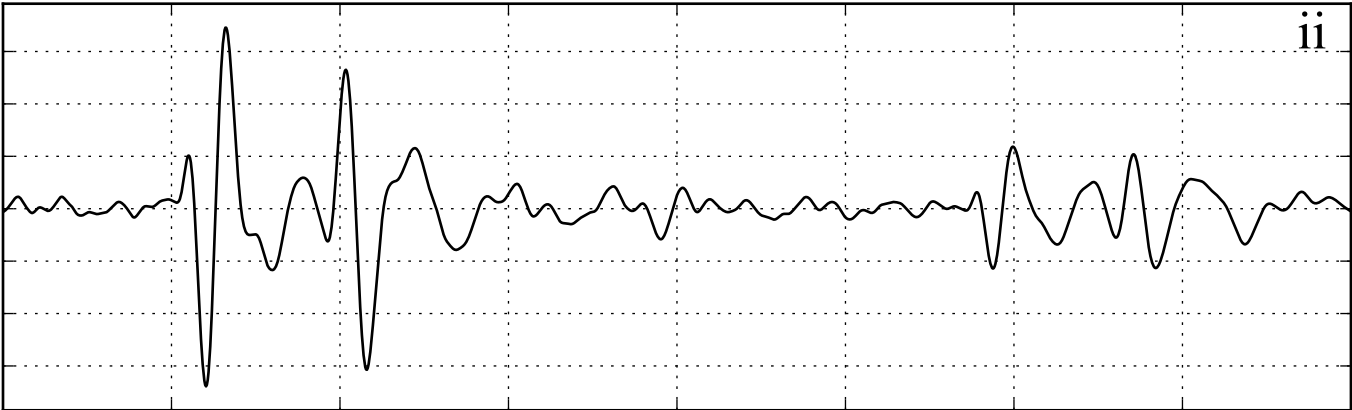
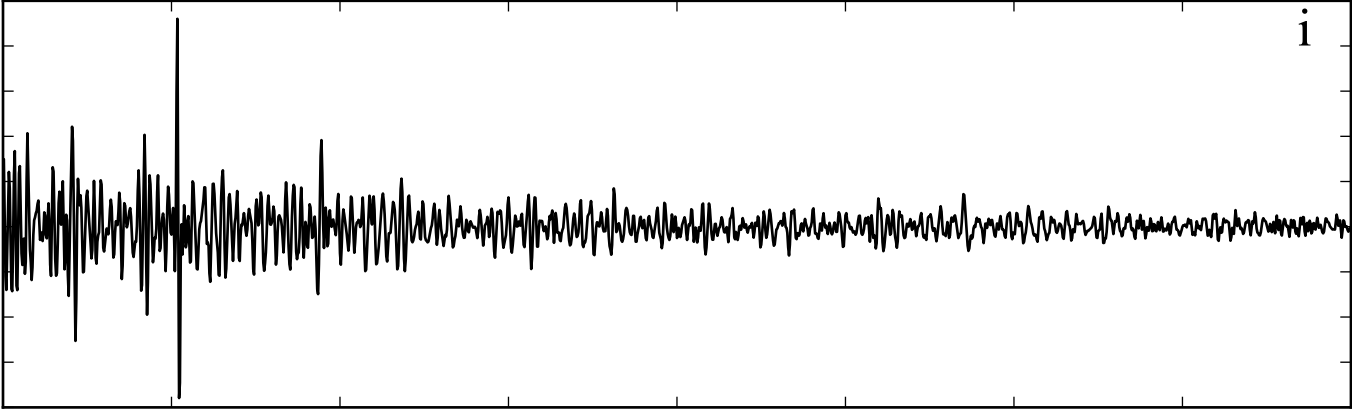


Time [s]

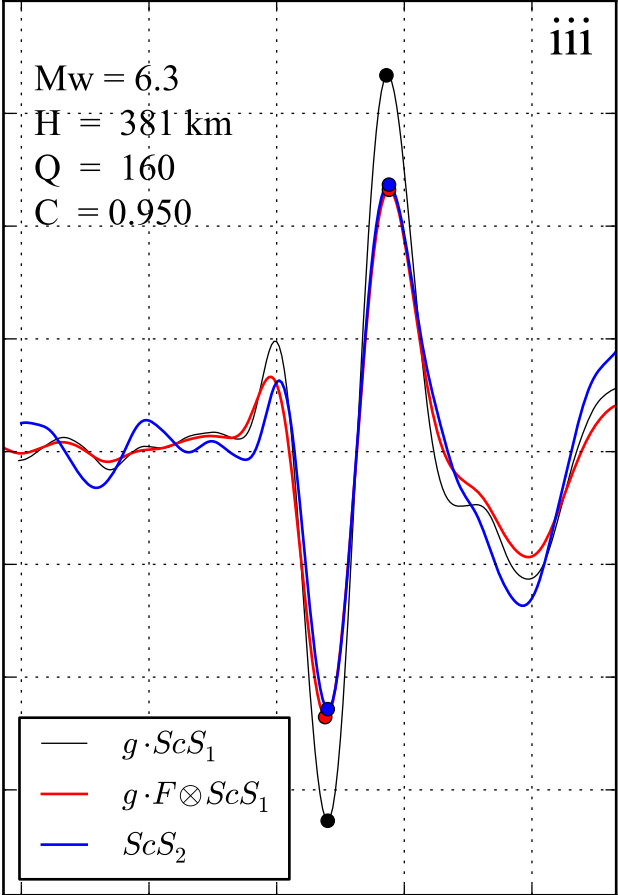
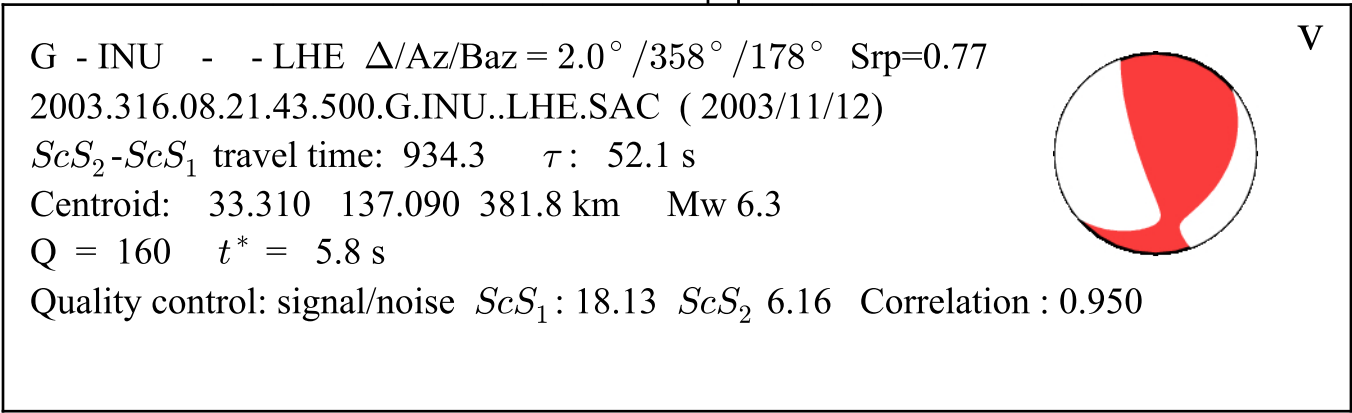


Time [s]

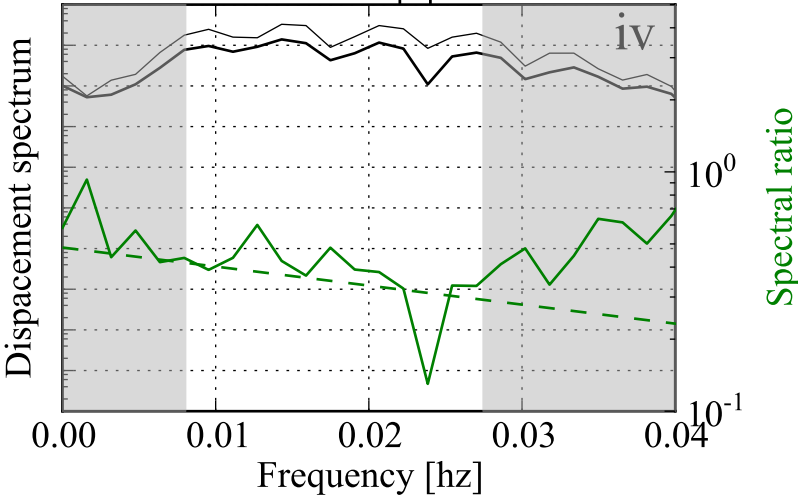


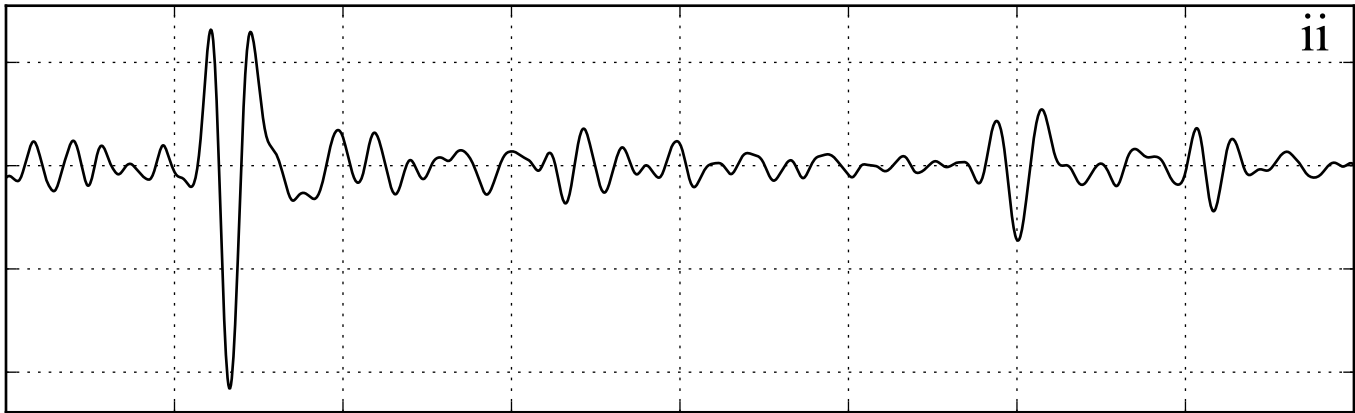
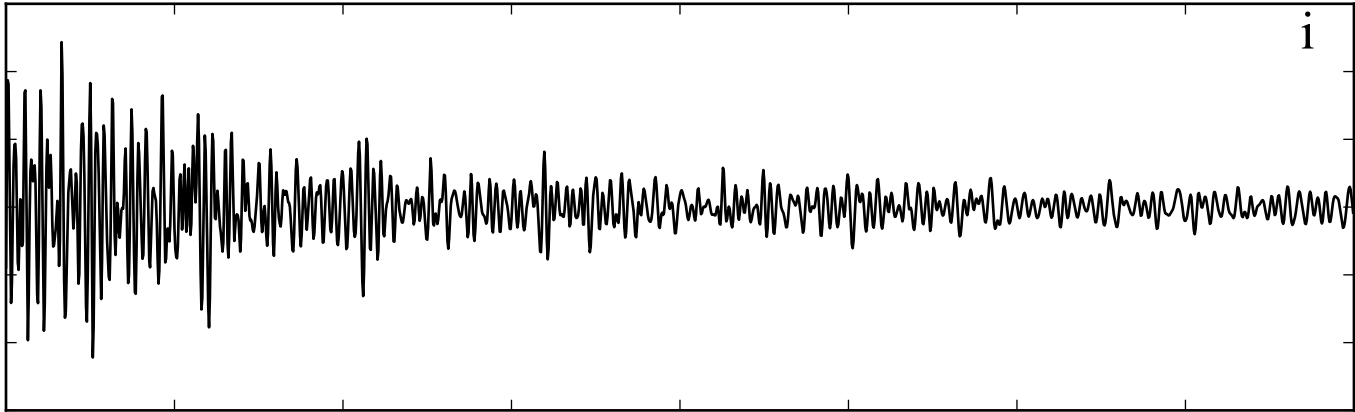


Time [s]



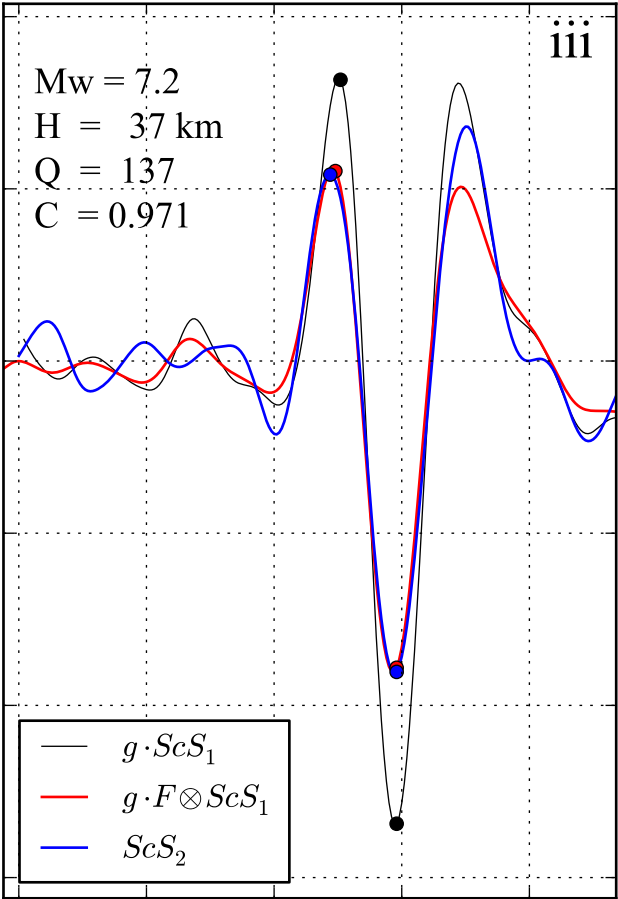
Time [s]



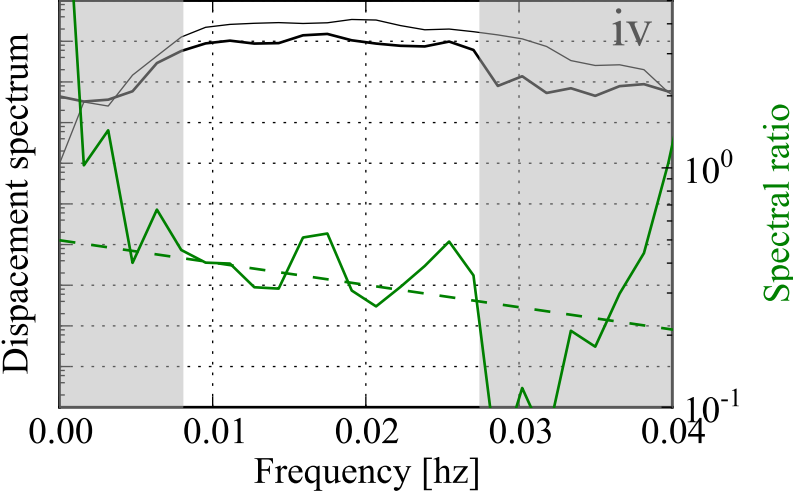


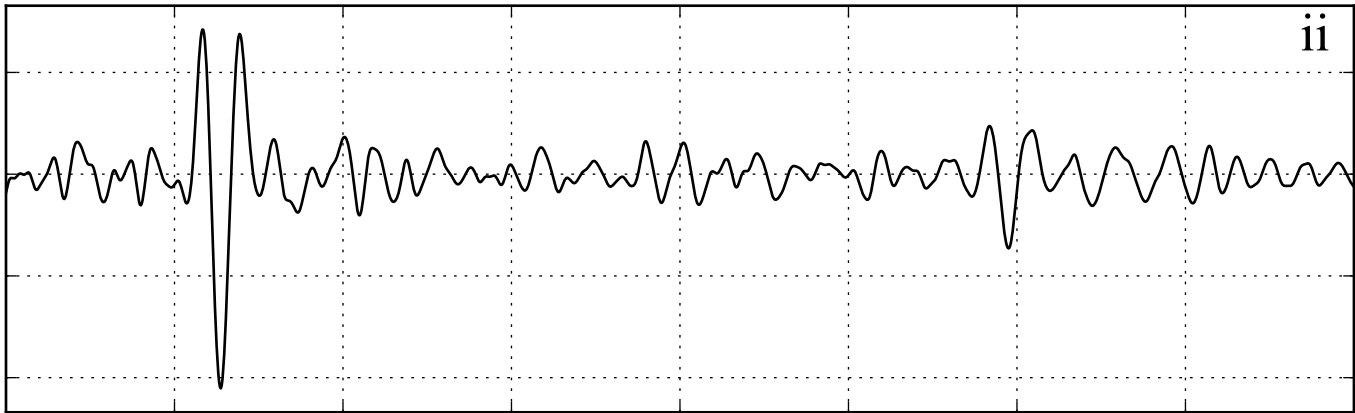
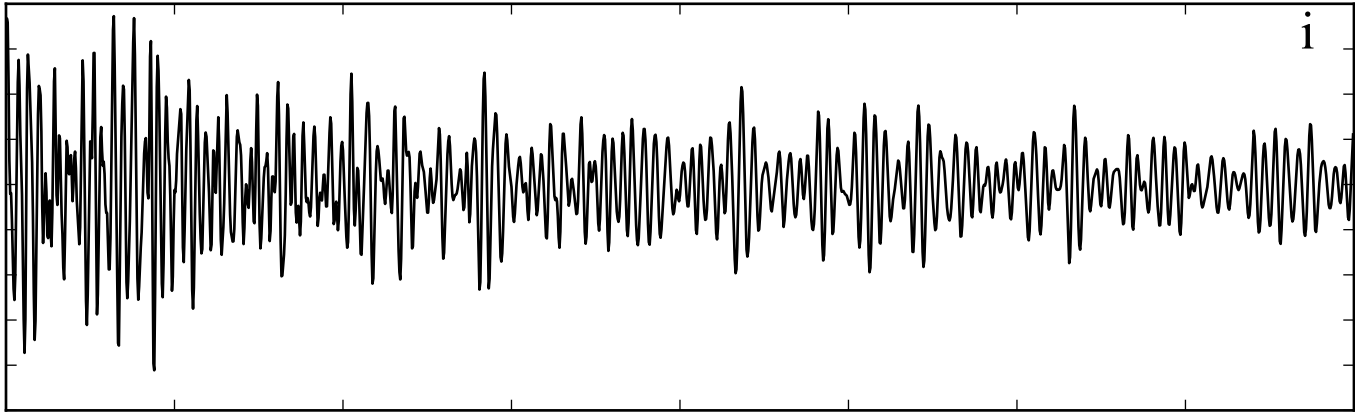
Time [s]

G - INU - - LHE $\Delta/Az/Baz = 5.0^\circ / 235^\circ / 52^\circ$ $Srp=0.85$
2005.228.02.41.28.603.G.INU..LHE.SAC (2005/08/16)
 ScS_2-ScS_1 travel time: 936.6 τ : 50.6 s
Centroid: 38.240 142.050 37.0 km Mw 7.2
 $Q = 137$ $t^* = 6.8$ s
Quality control: signal/noise ScS_1 : 15.54 ScS_2 5.18 Correlation : 0.971

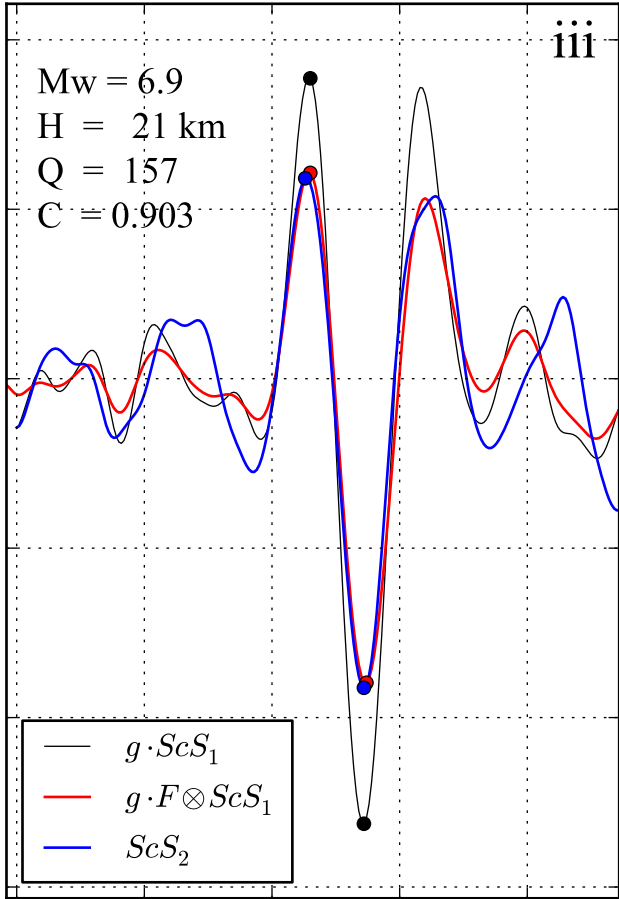
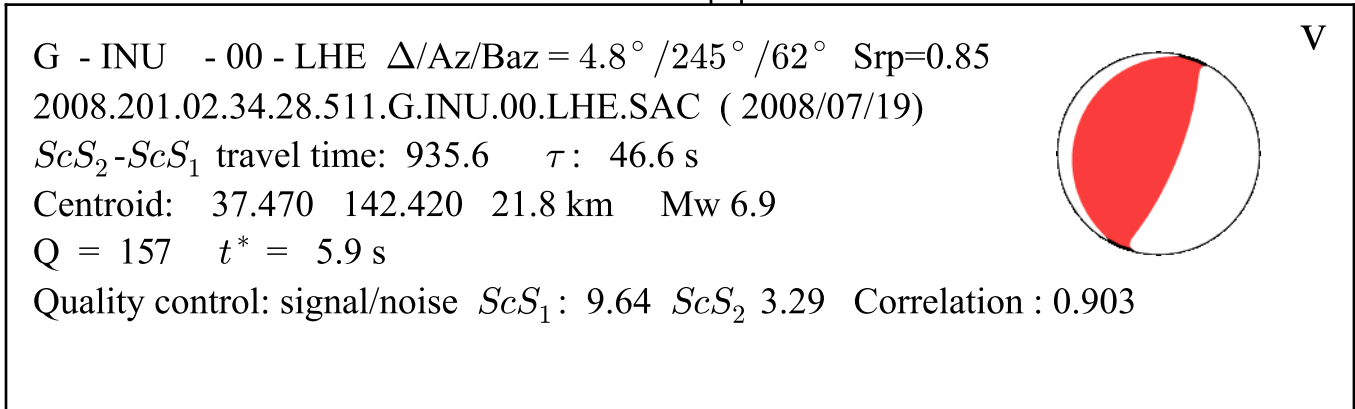


Time [s]

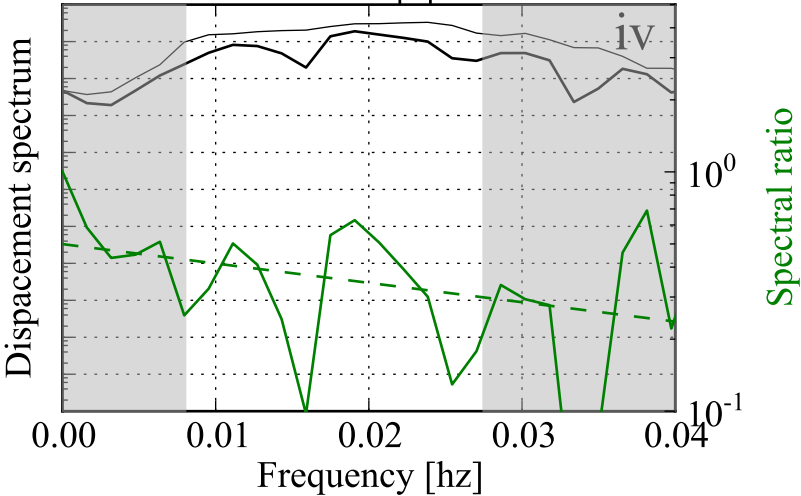


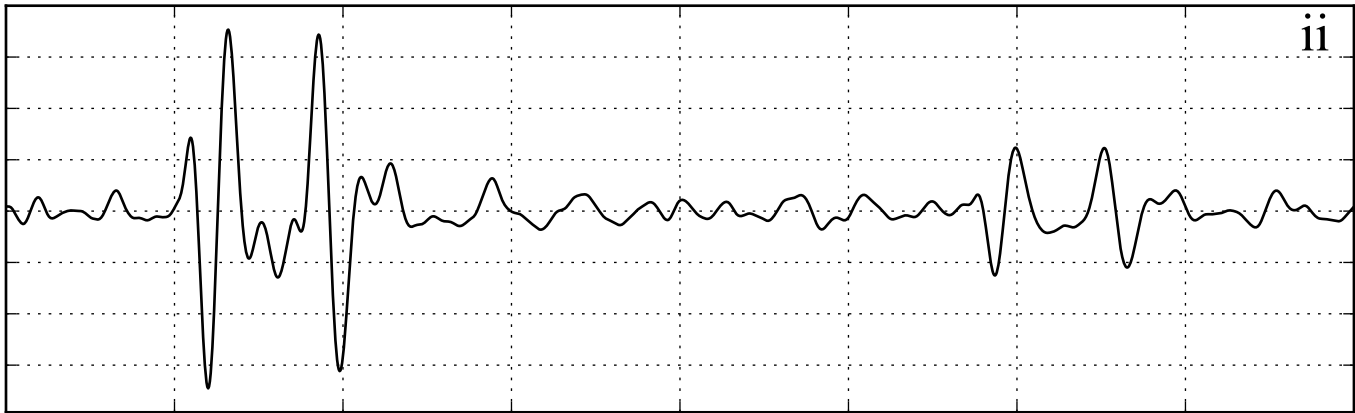
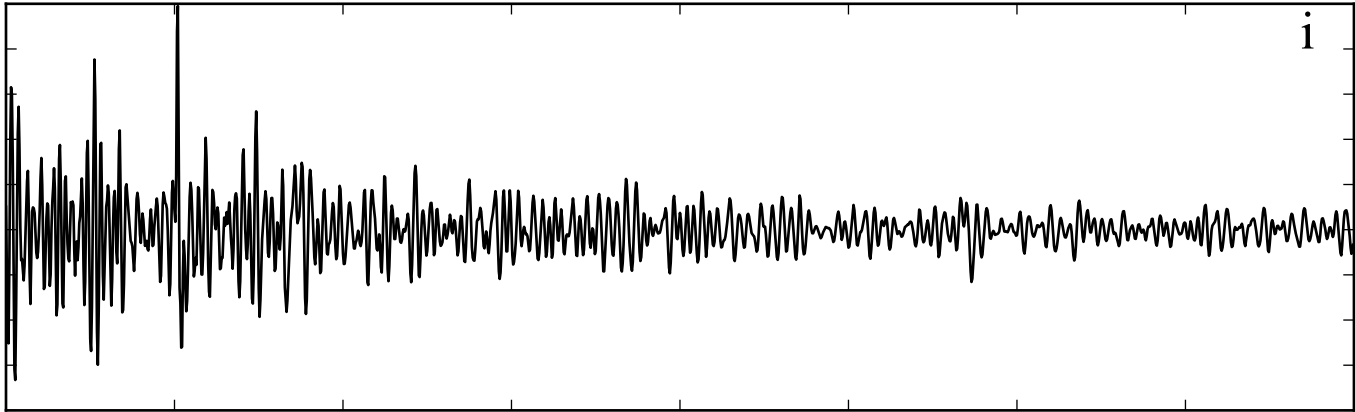


Time [s]

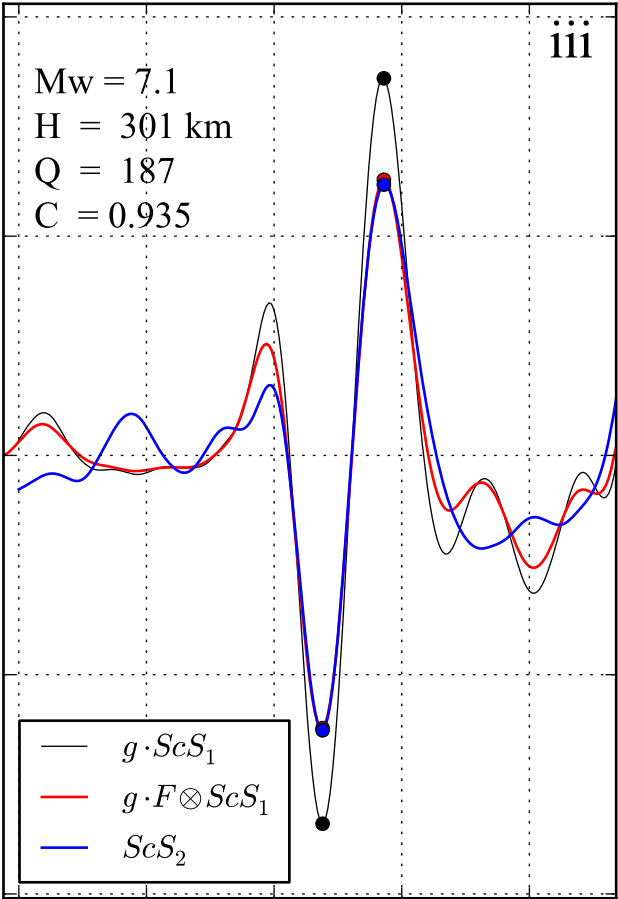
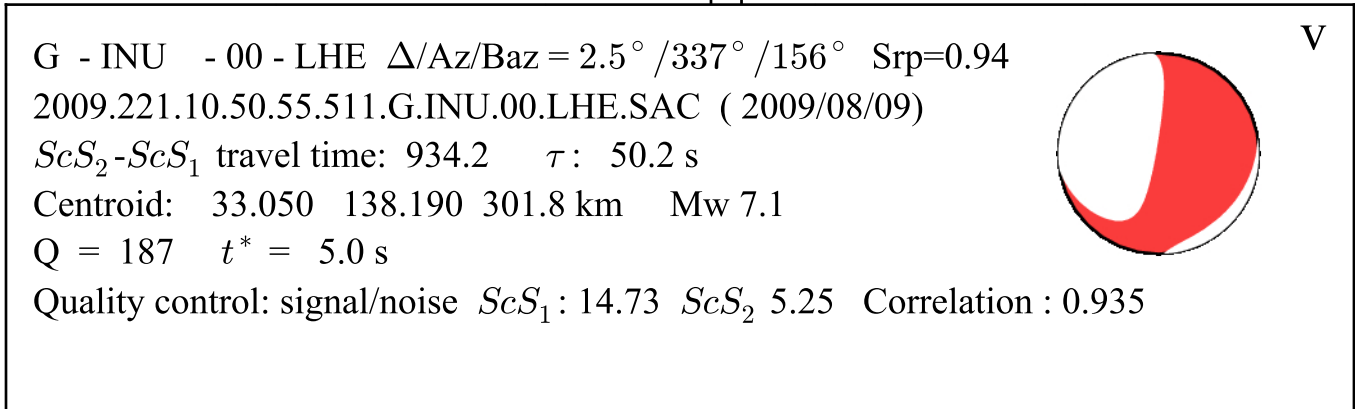


Time [s]

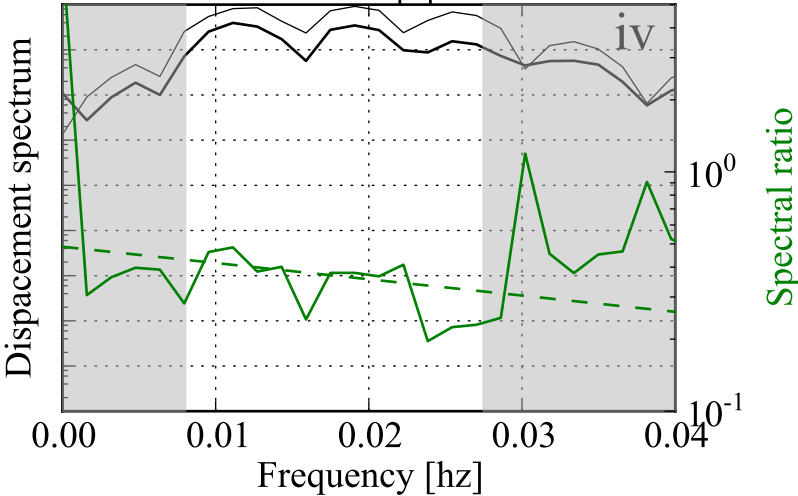


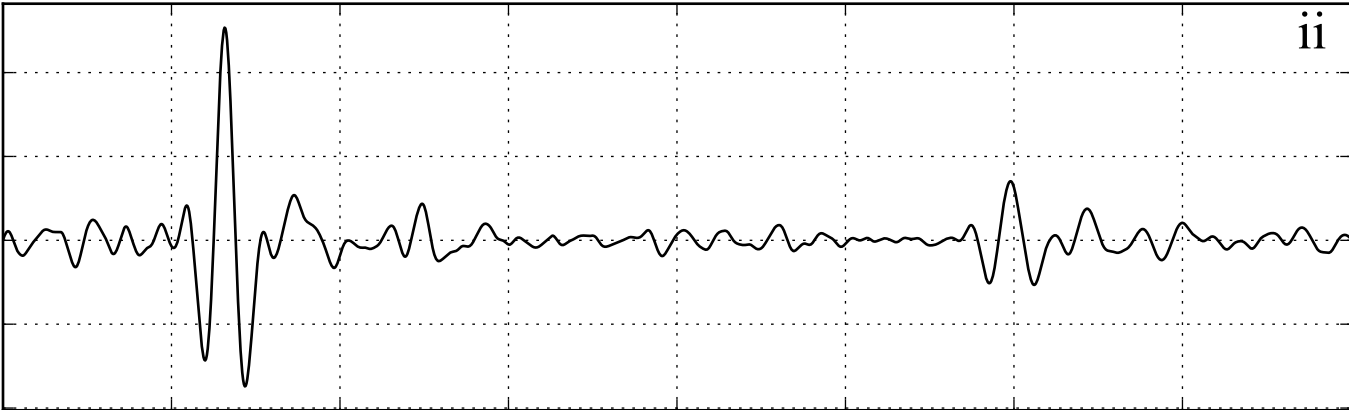
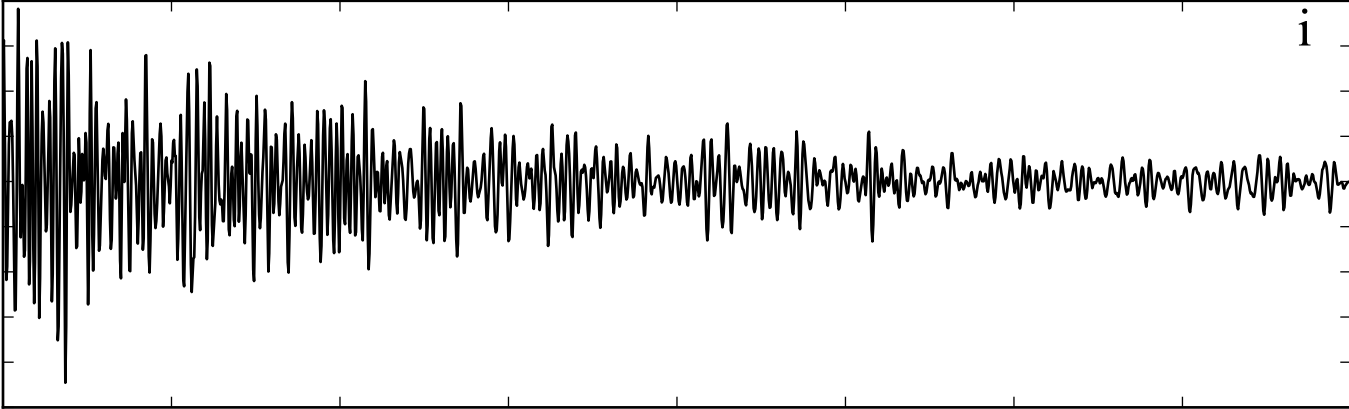


Time [s]

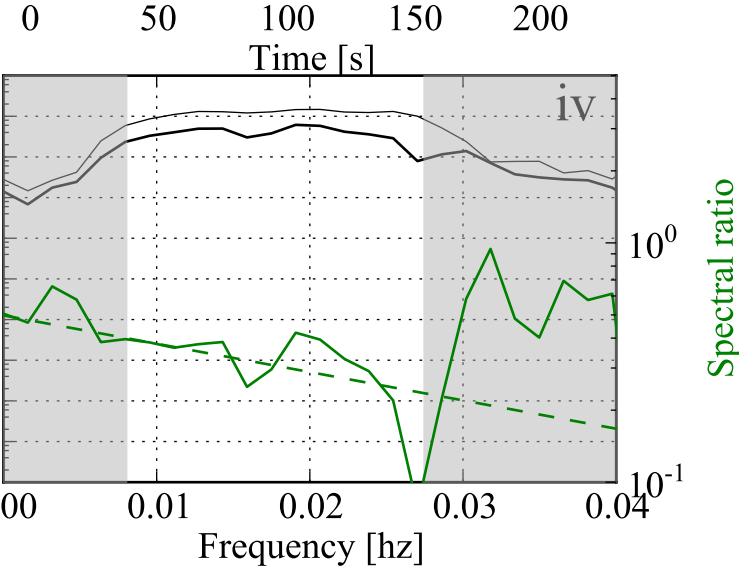
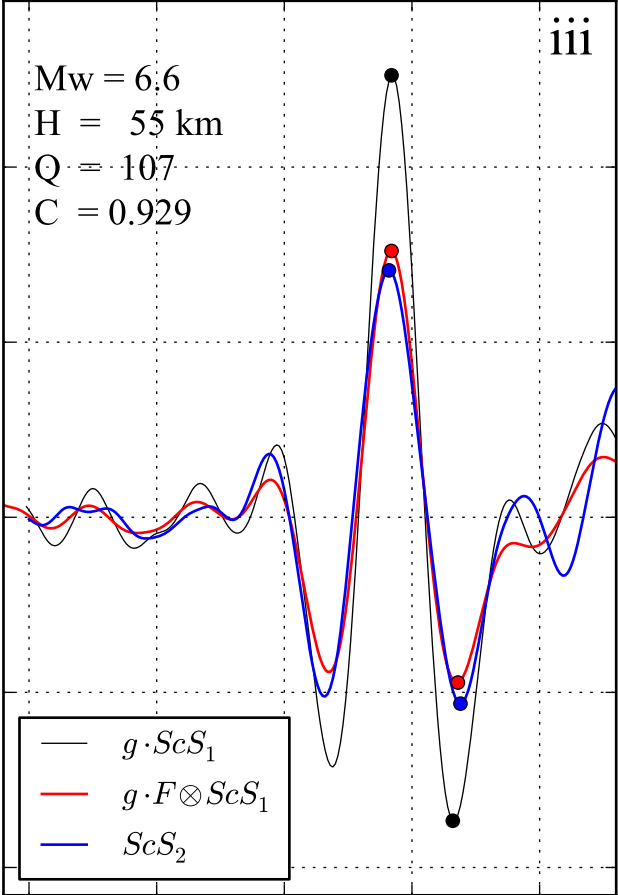
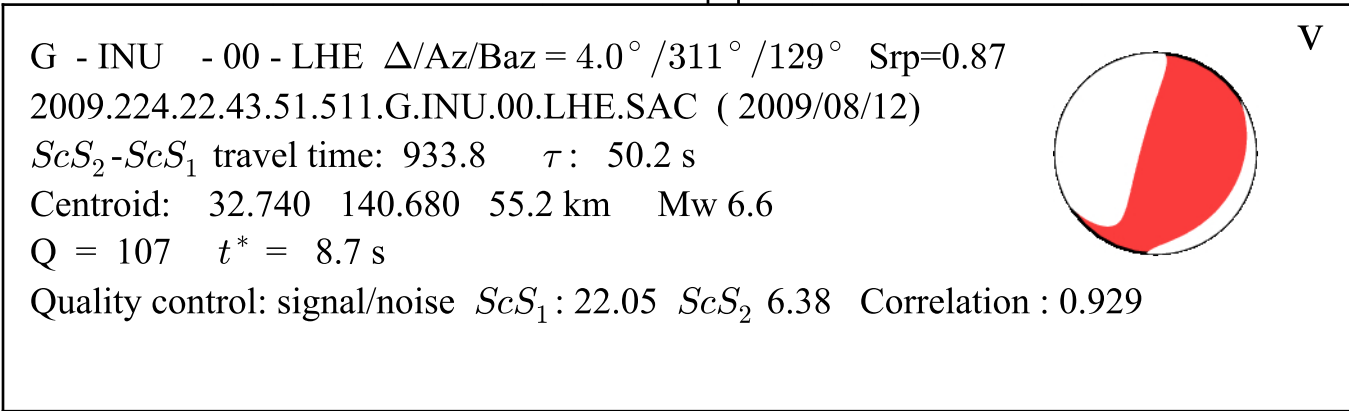


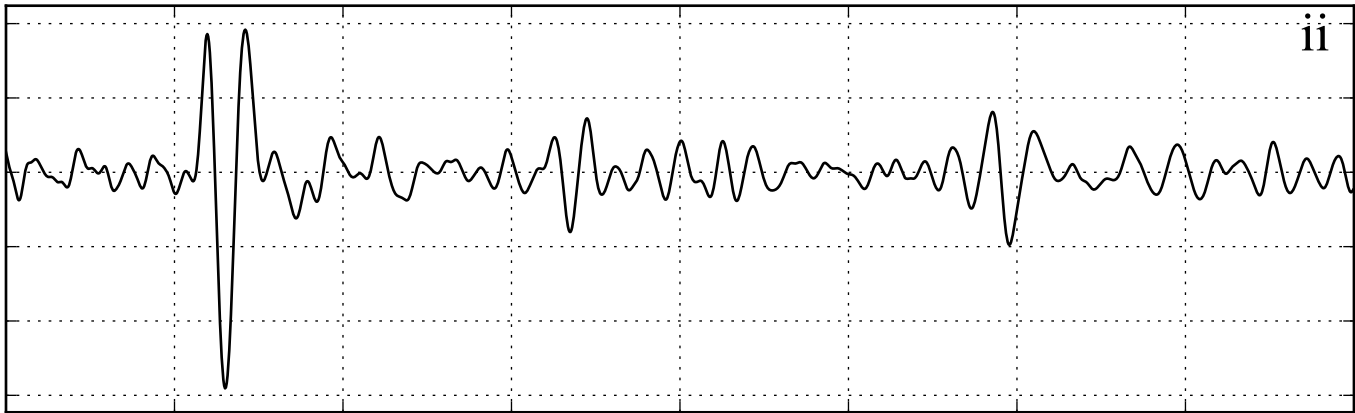
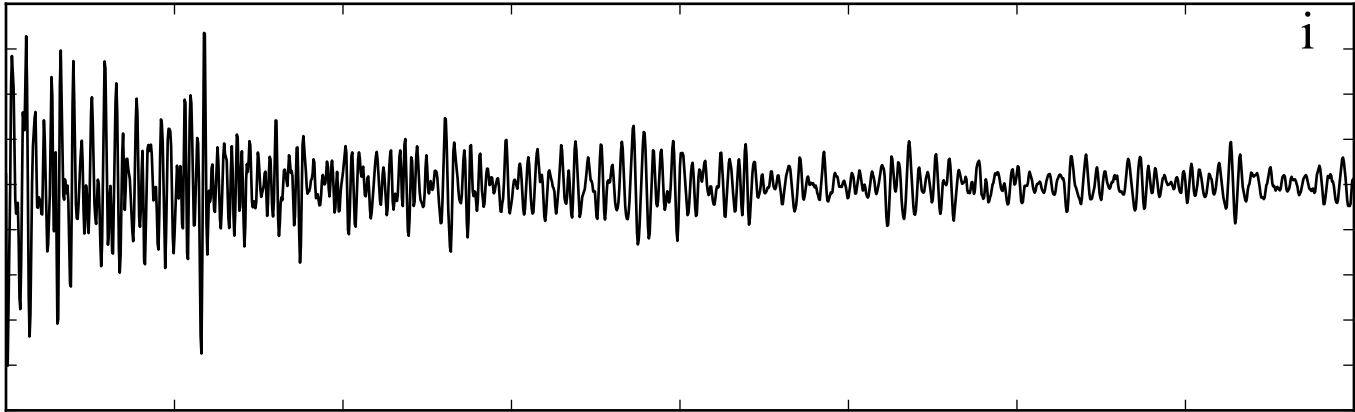
Time [s]



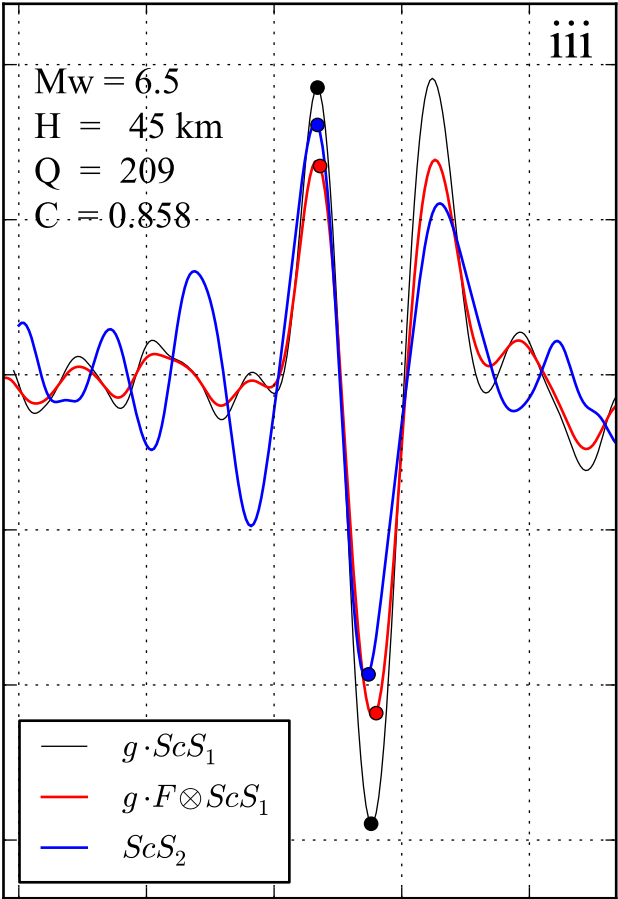
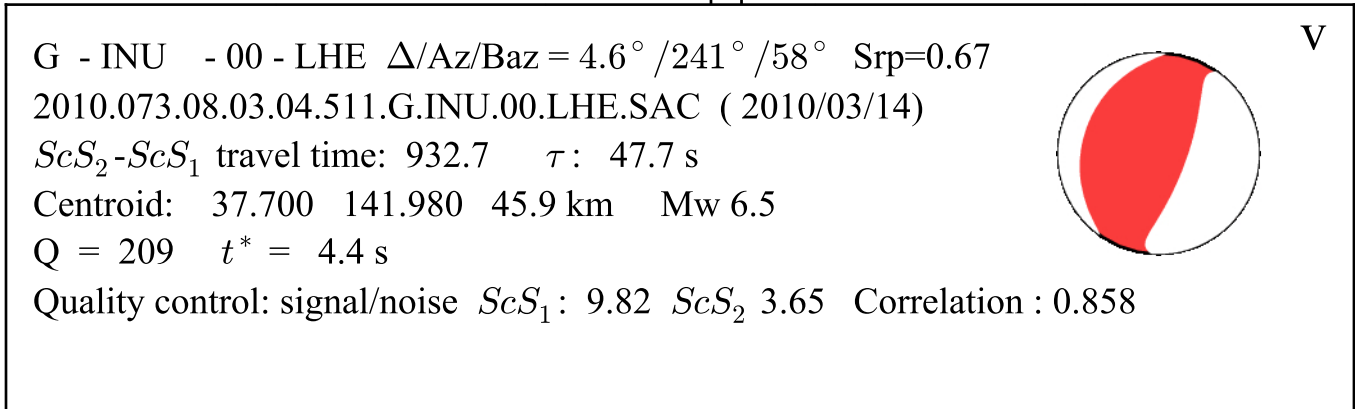


Time [s]

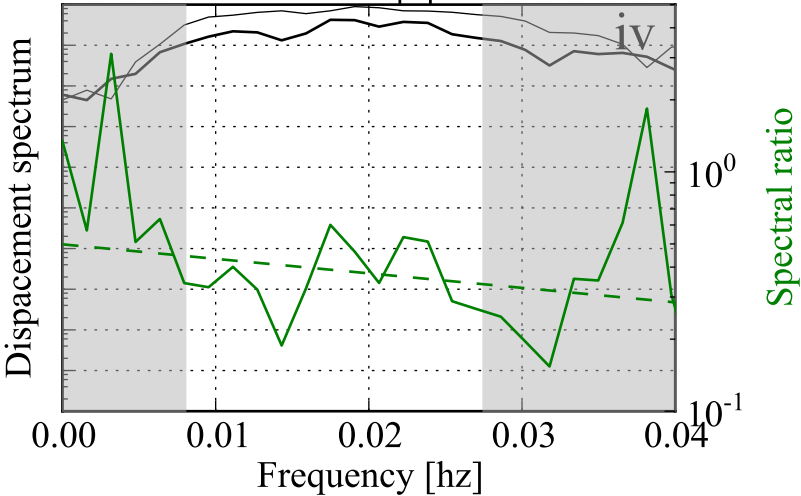


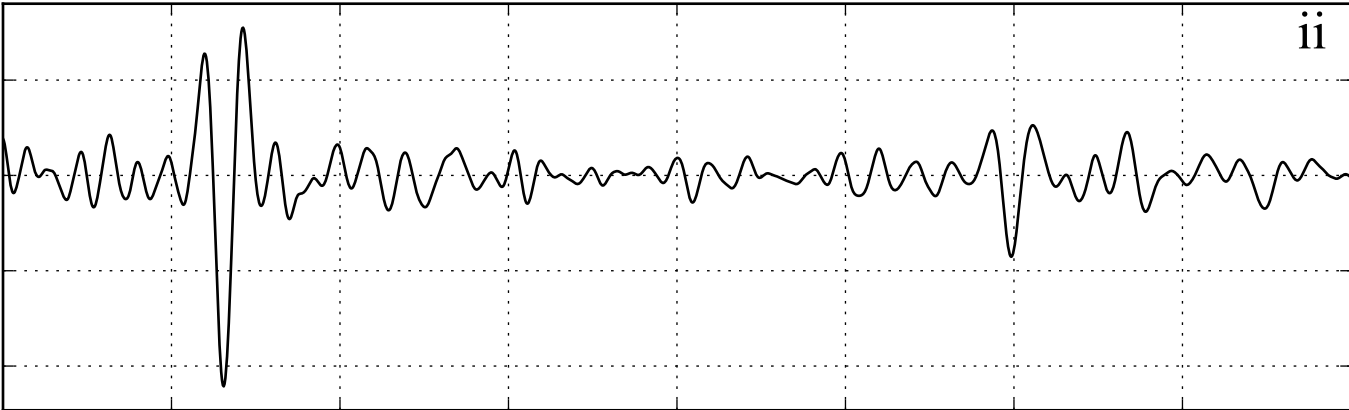
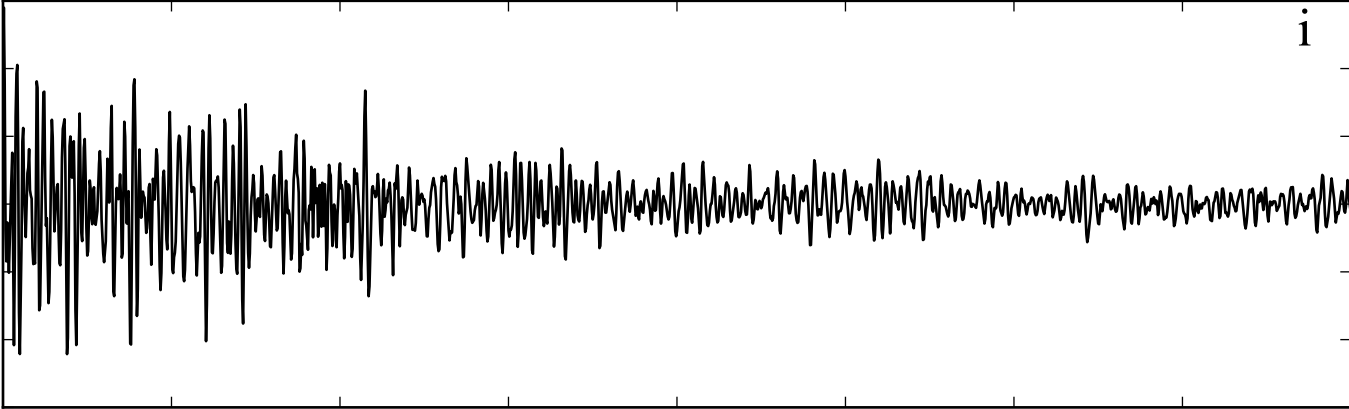


Time [s]

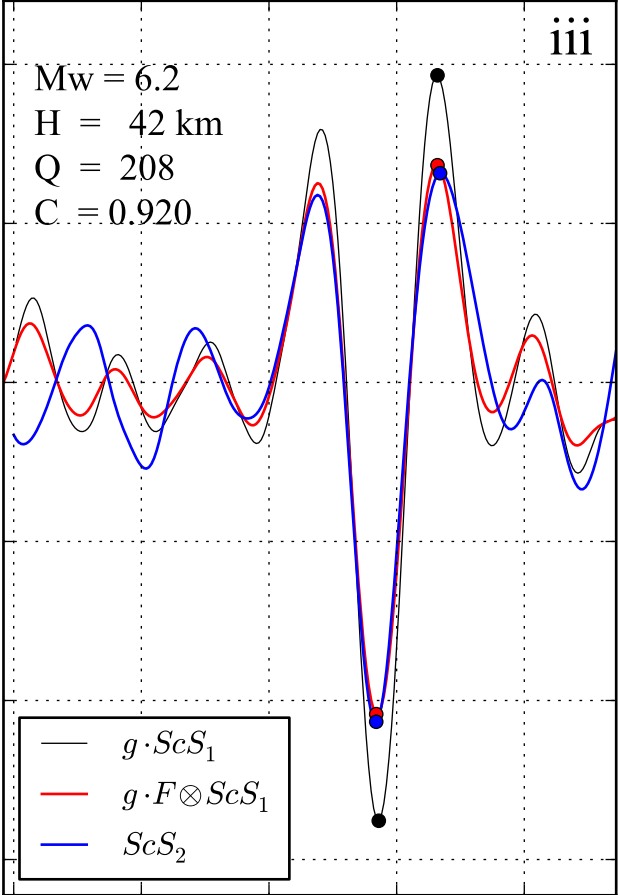
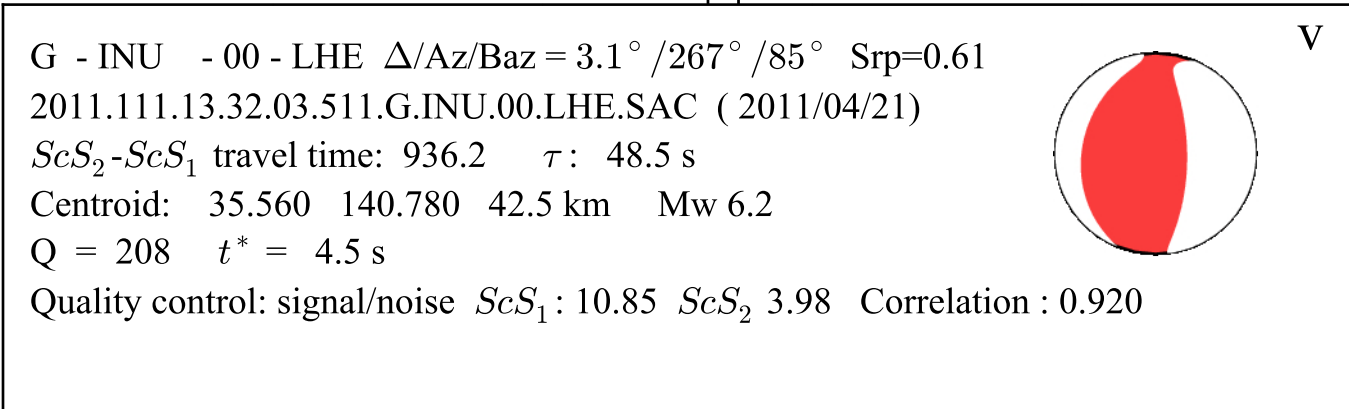


Time [s]

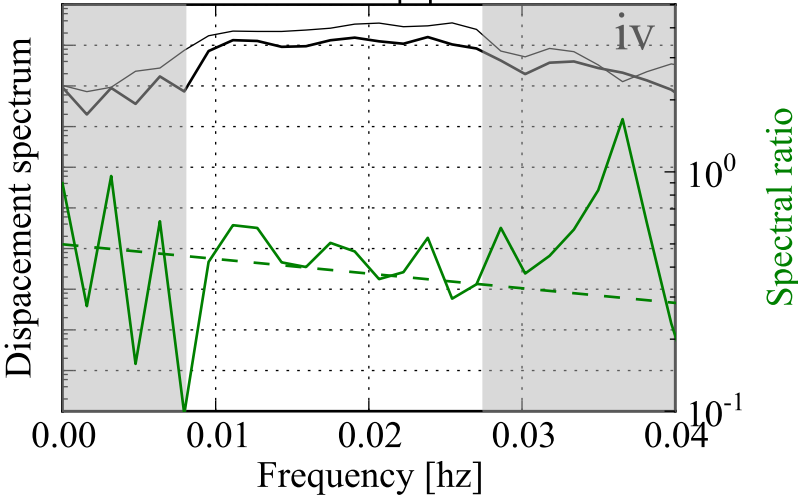


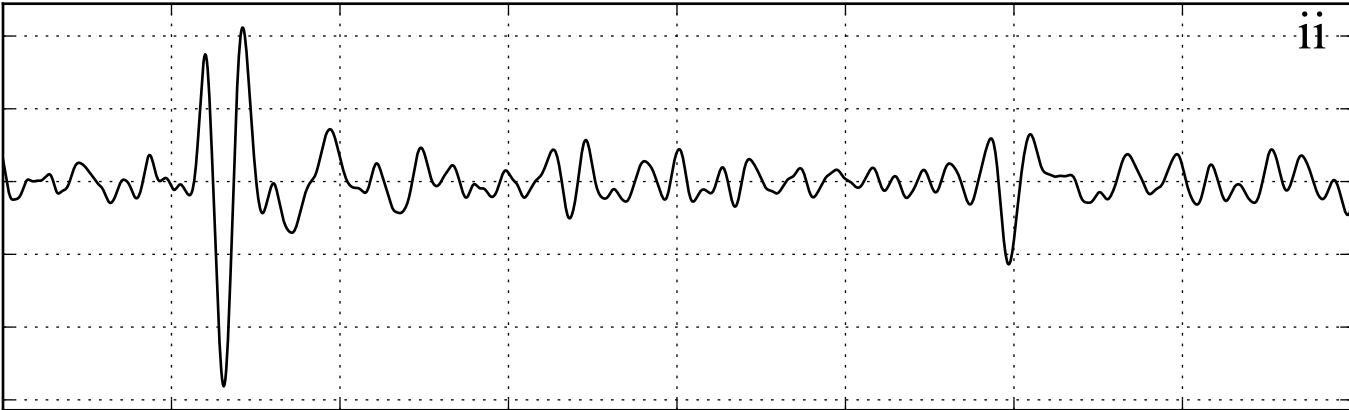
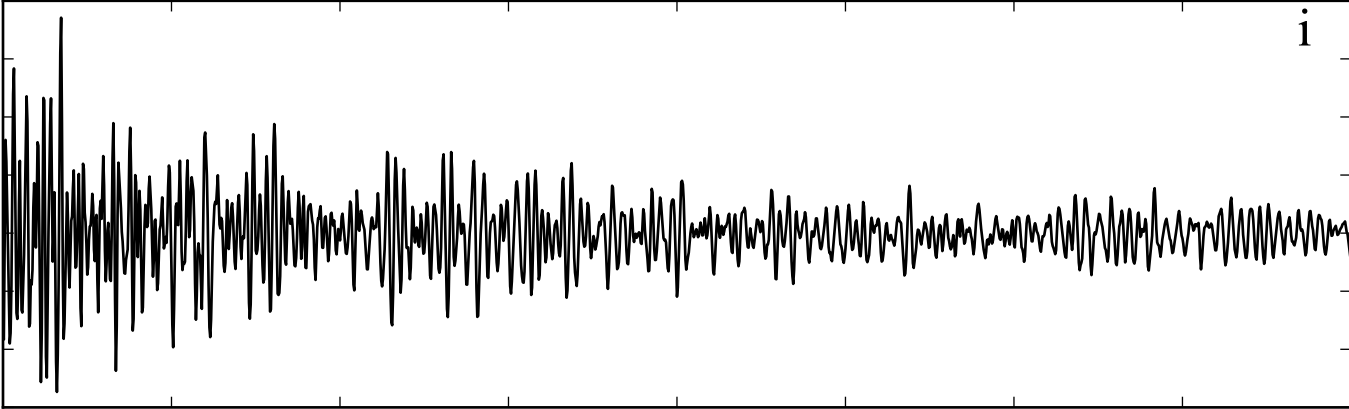


Time [s]

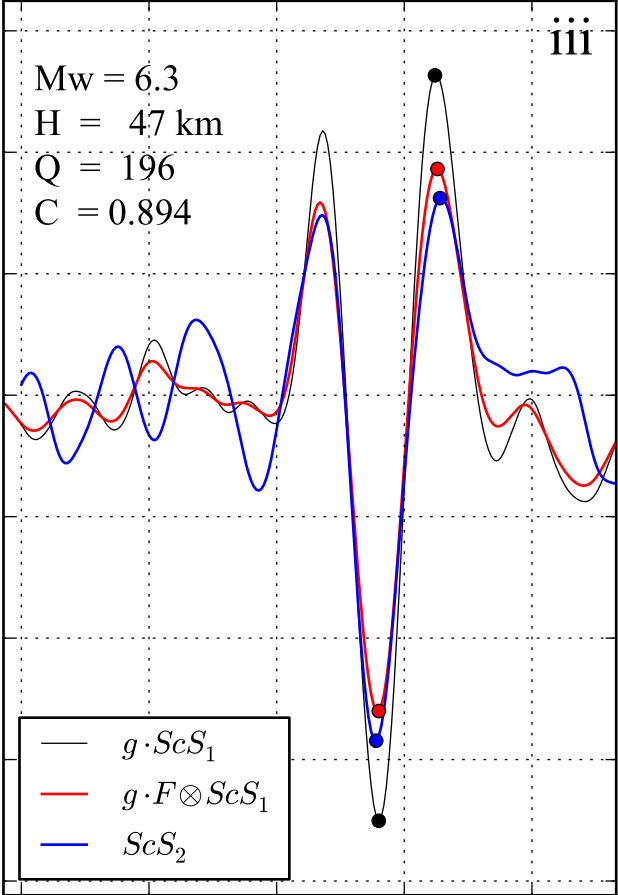
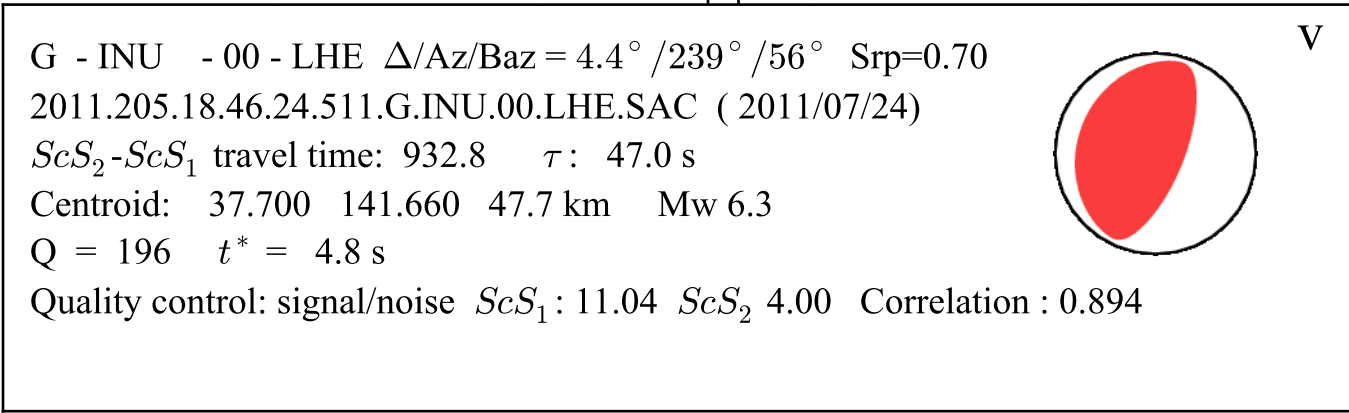


Time [s]

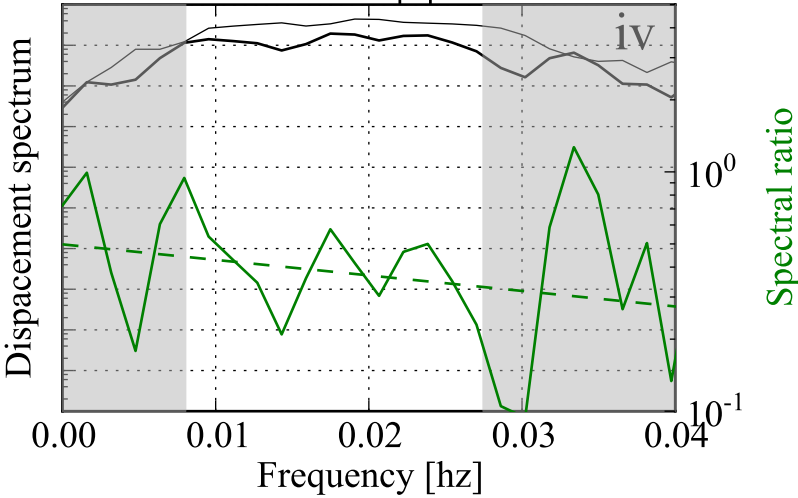


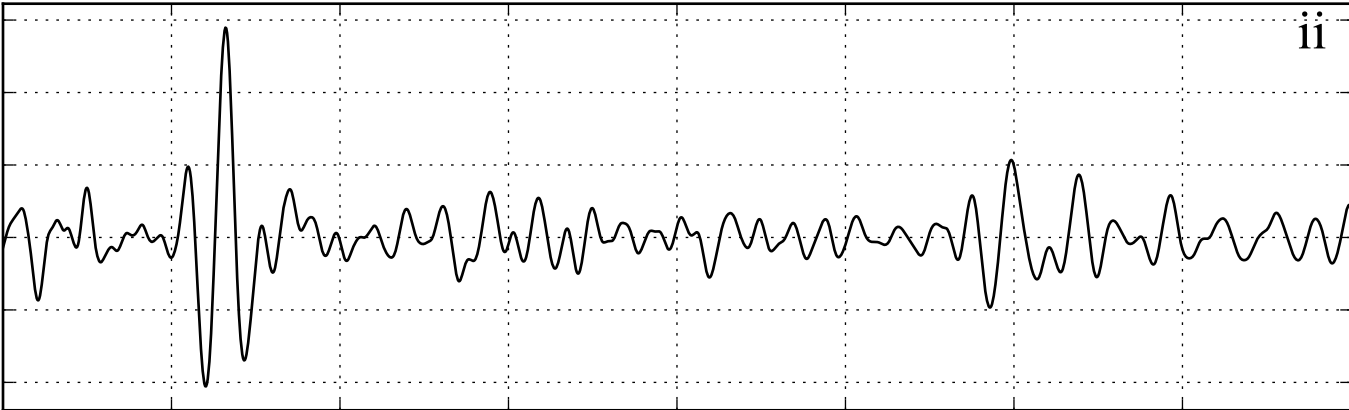
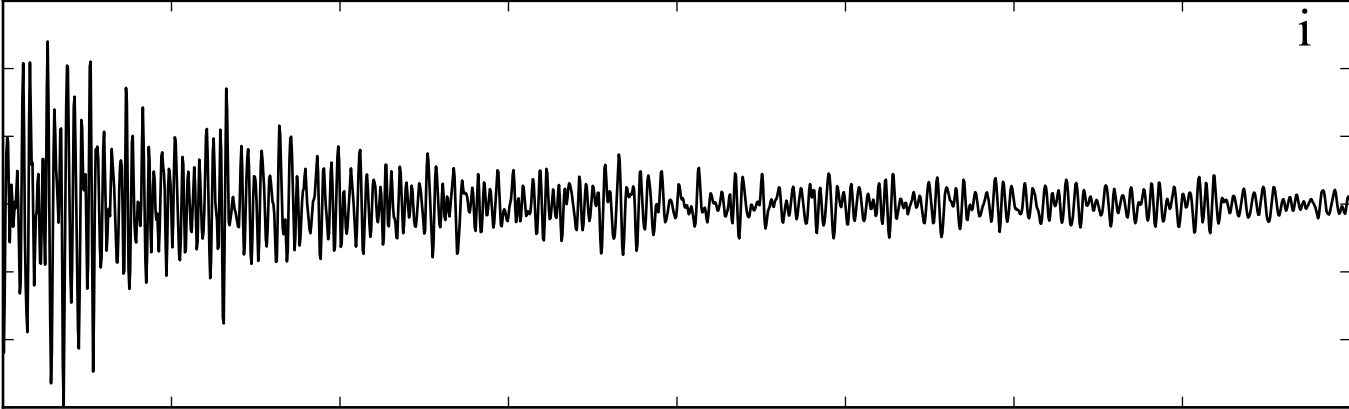


Time [s]

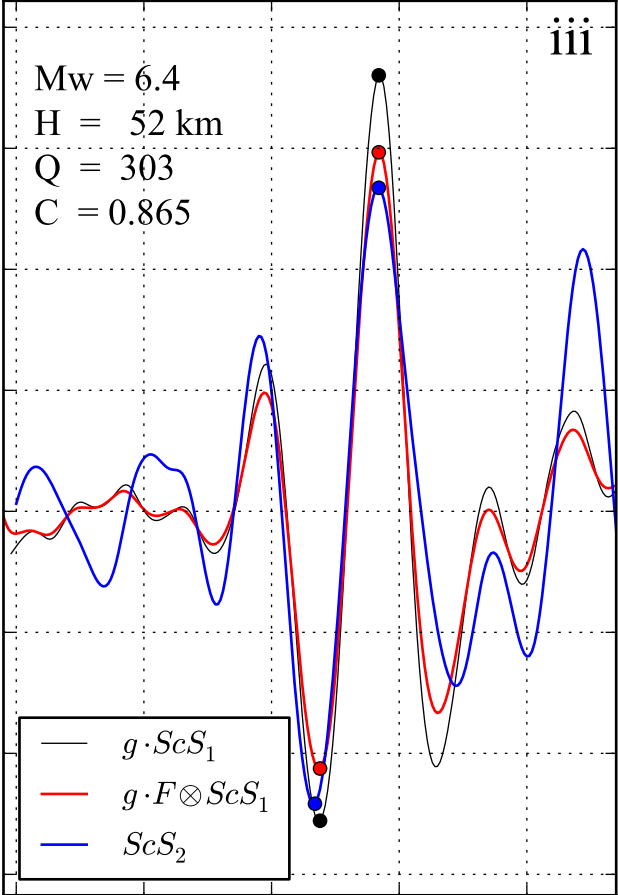
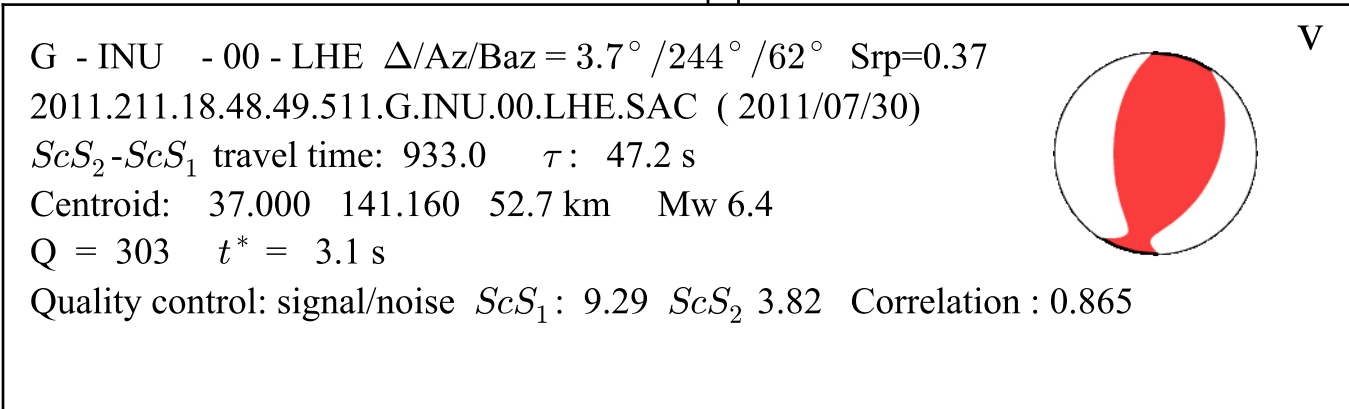


Time [s]

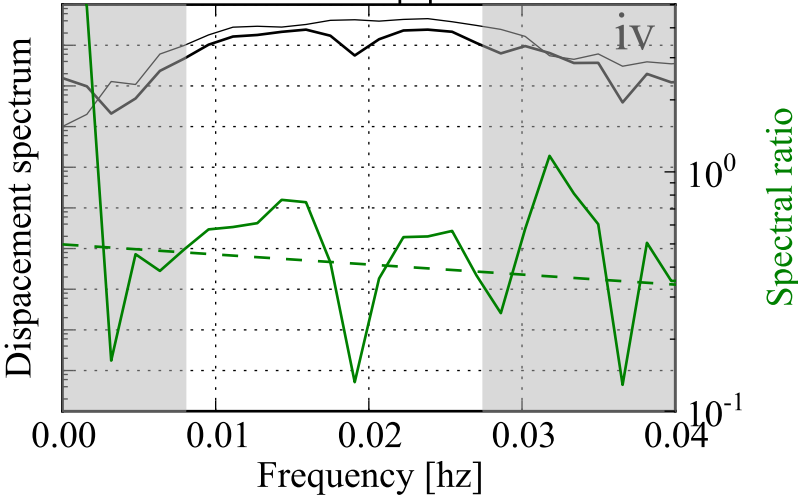


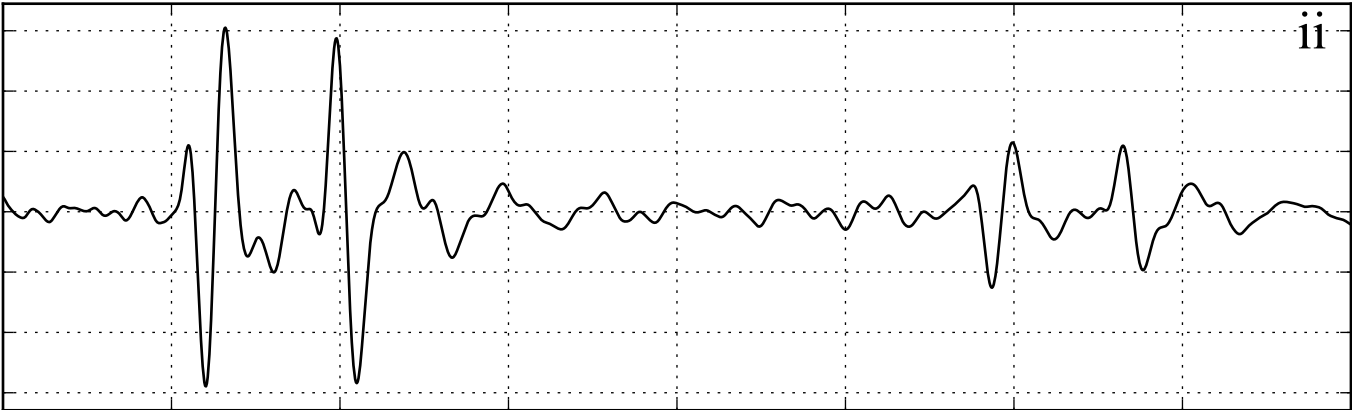
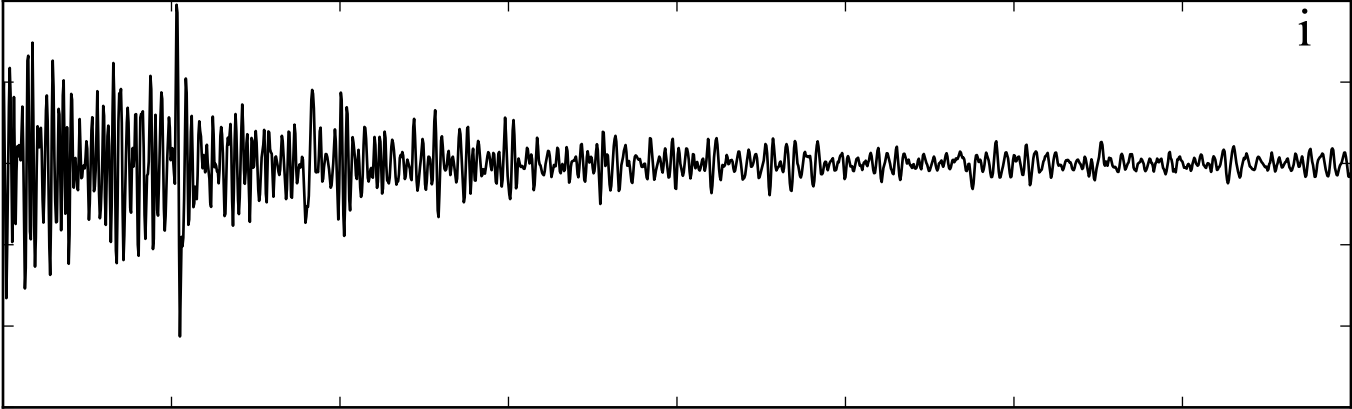


Time [s]



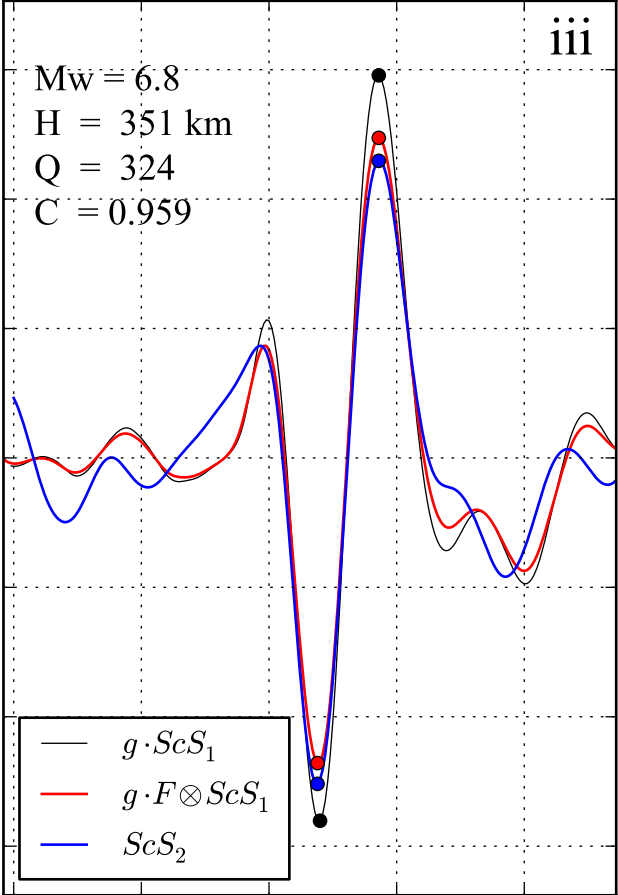
Time [s]



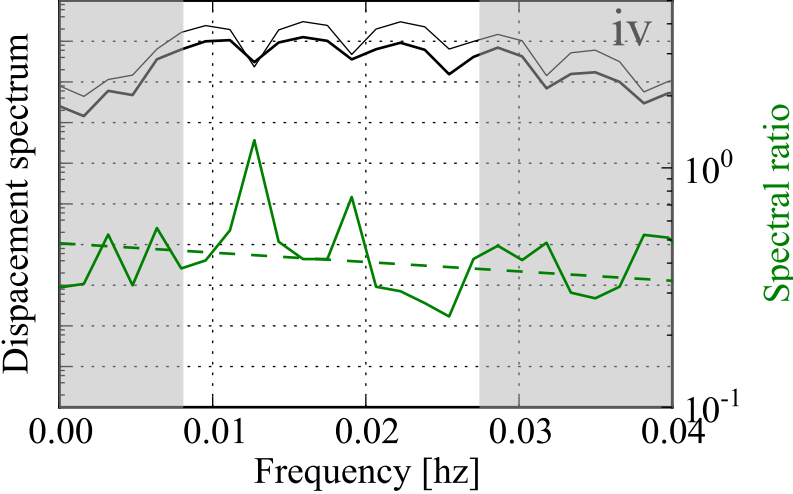


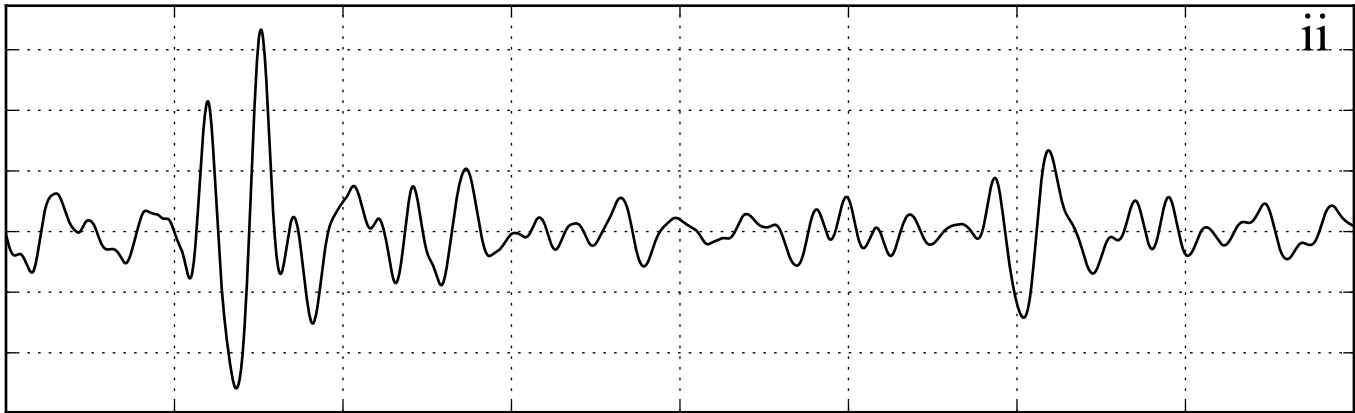
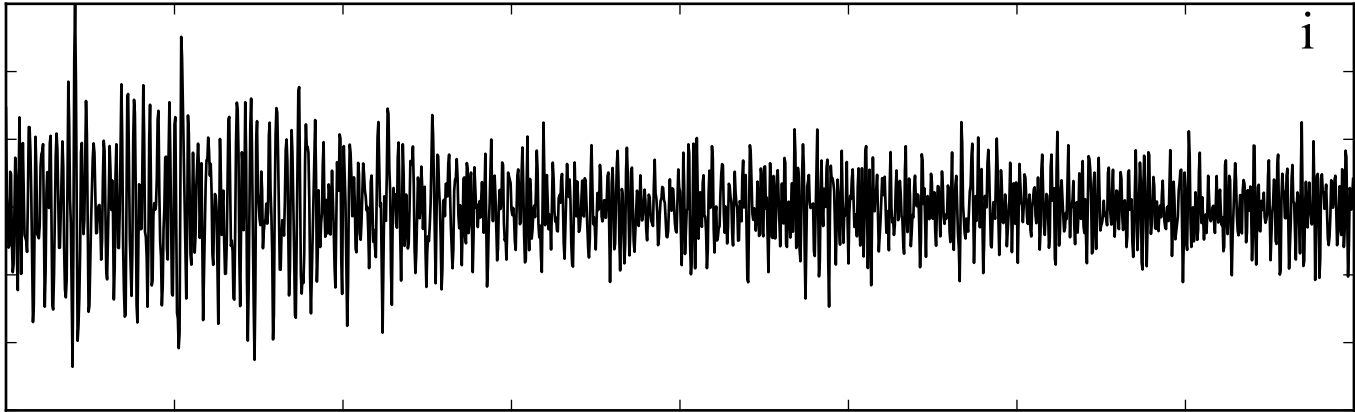
Time [s]

G - INU - 00 - LHE $\Delta/Az/Baz = 3.8^\circ/345^\circ/165^\circ$ $Srp=0.93$
2012.001.05.22.56.511.G.INU.00.LHE.SAC (2012/01/01)
 ScS_2-ScS_1 travel time: 933.8 τ : 50.3 s
Centroid: 31.610 138.170 352.0 km Mw 6.8
 $Q = 324$ $t^* = 2.9$ s
Quality control: signal/noise ScS_1 : 16.12 ScS_2 6.52 Correlation : 0.959

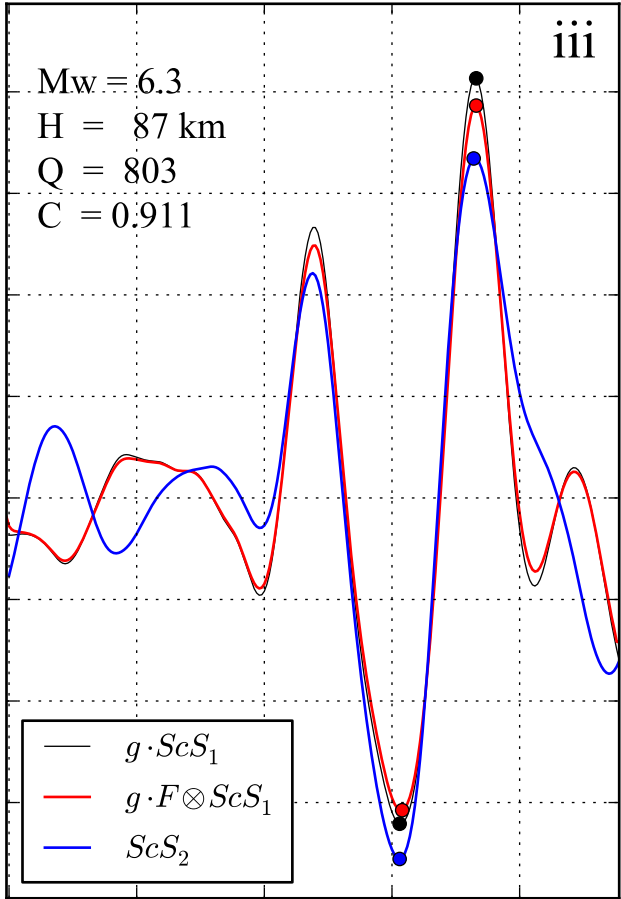
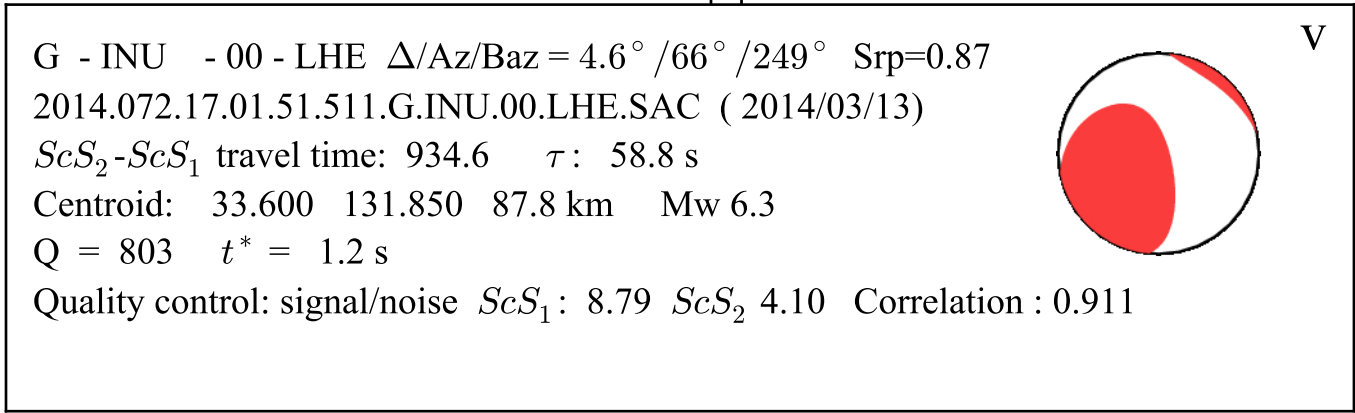


Time [s]

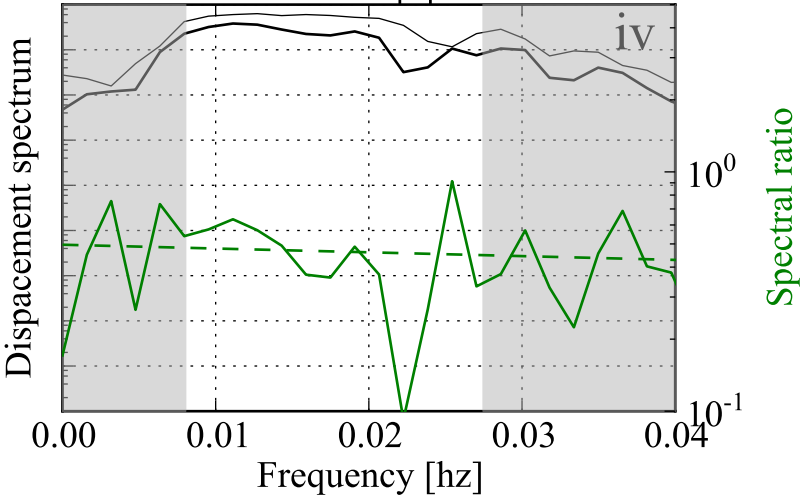


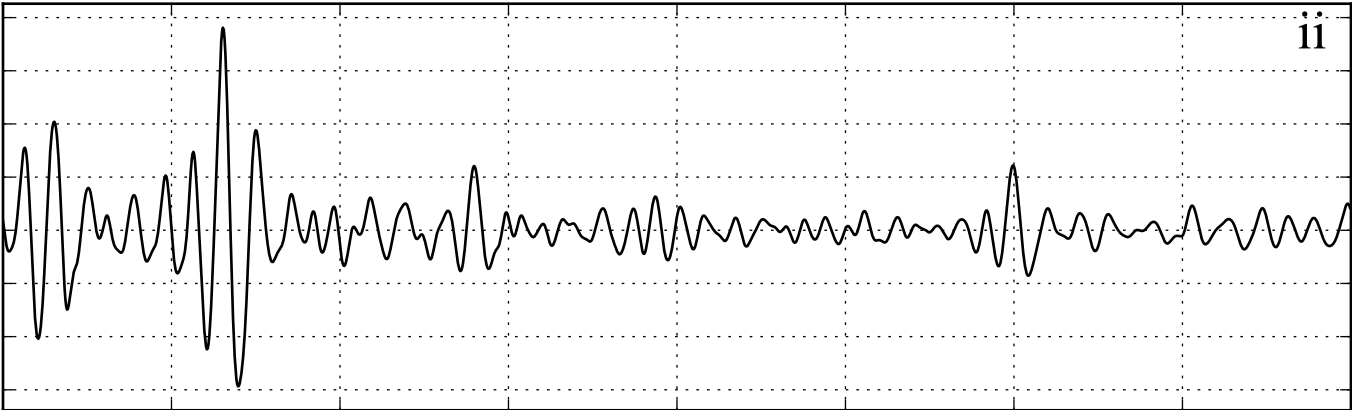
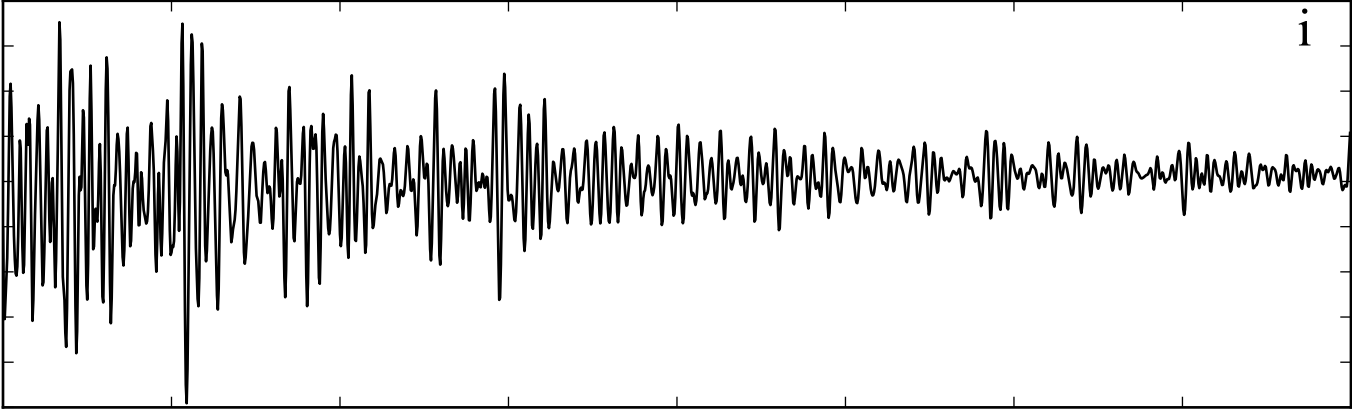


Time [s]

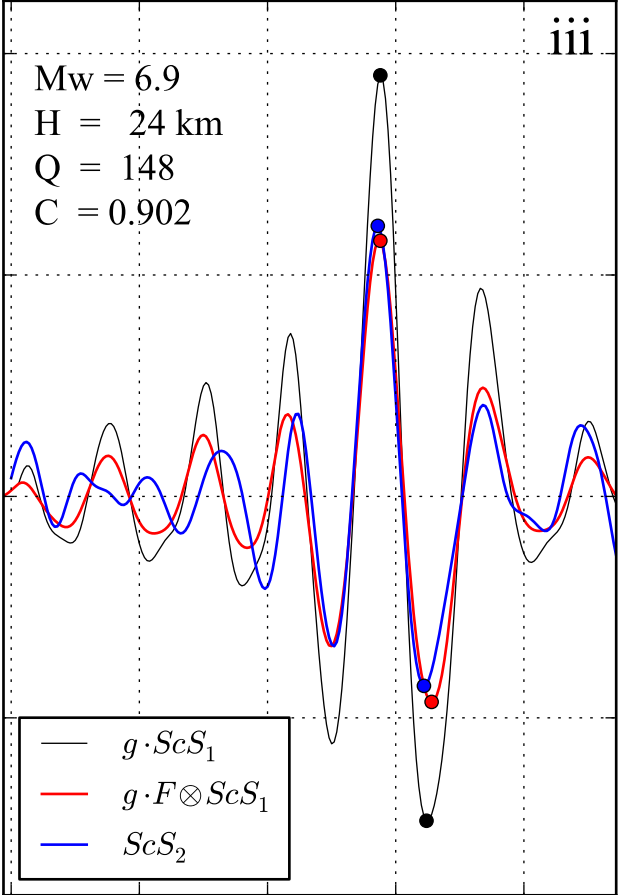
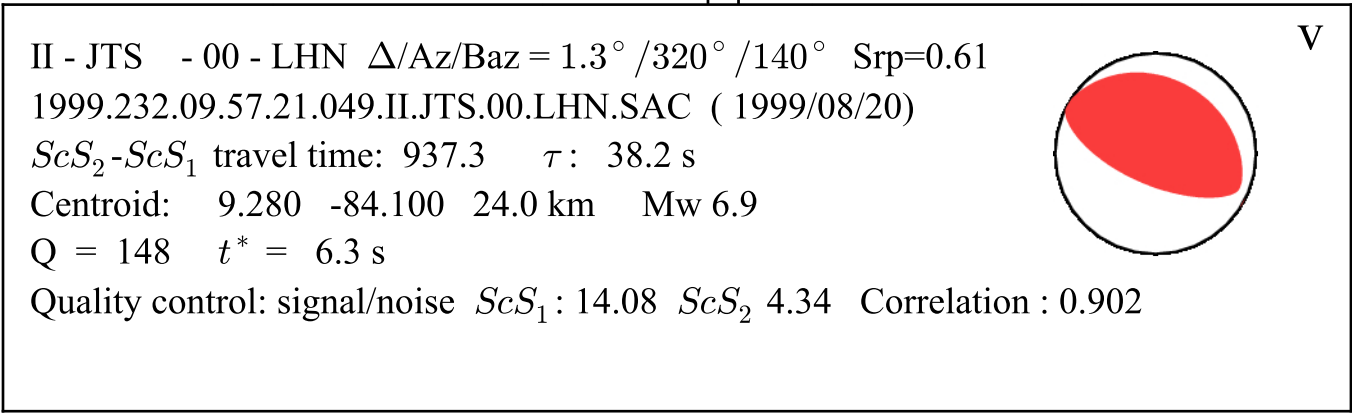


Time [s]

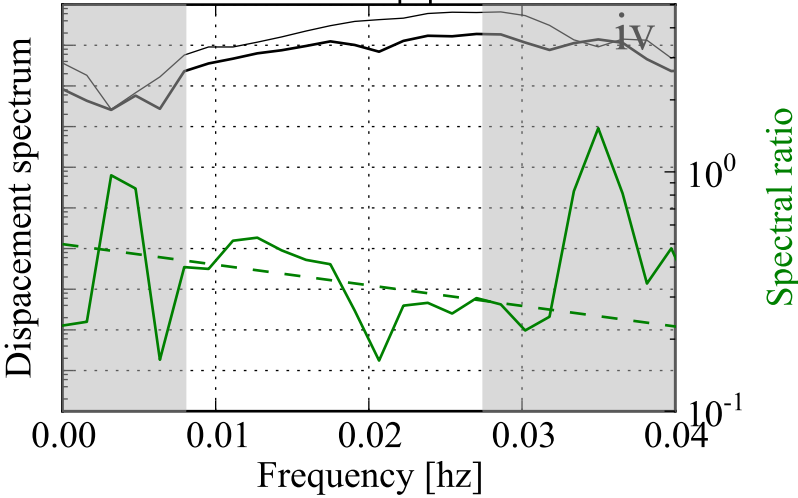


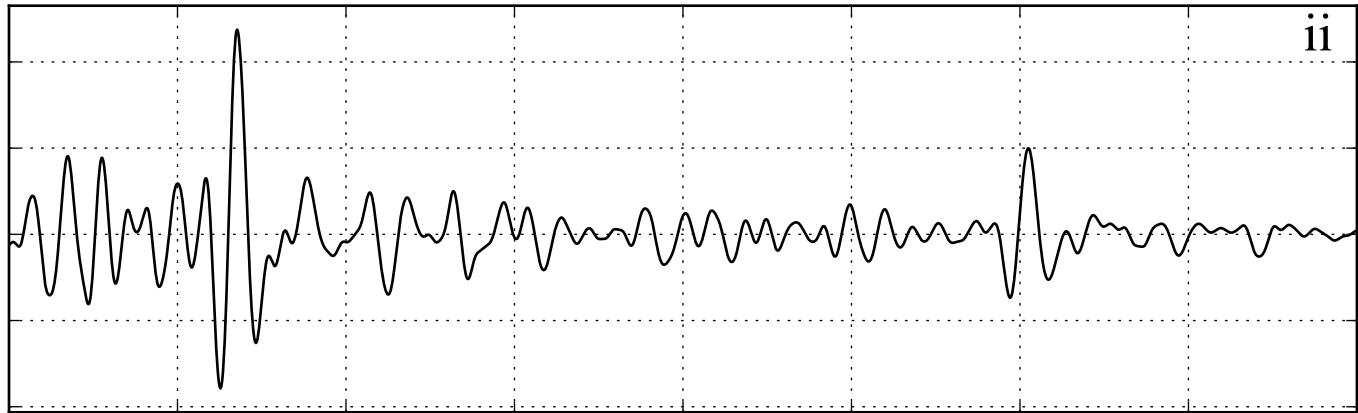
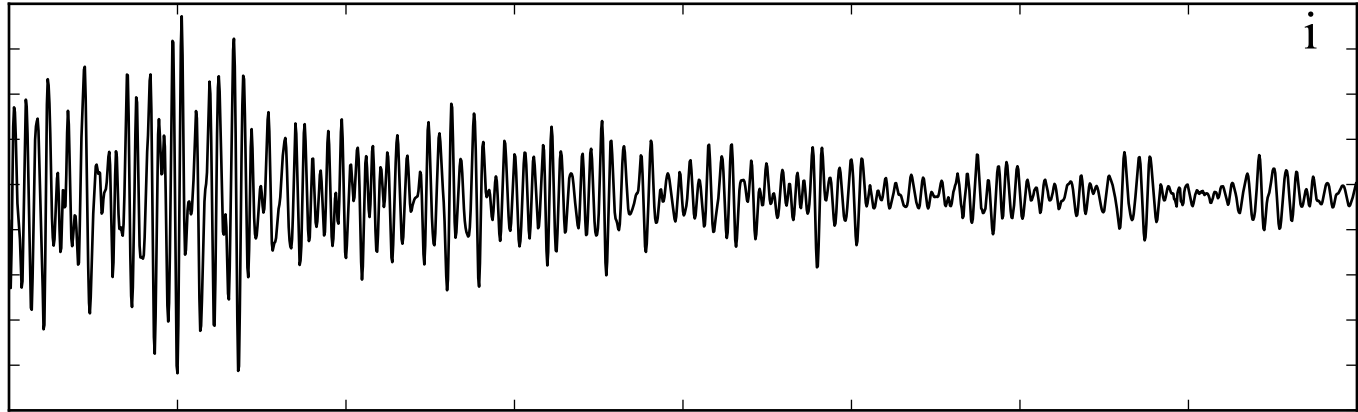


Time [s]



Time [s]





Time [s]

II - JTS - 00 - LH2 $\Delta/Az/Baz = 0.7^\circ / 66^\circ / 246^\circ$ Srp=0.84

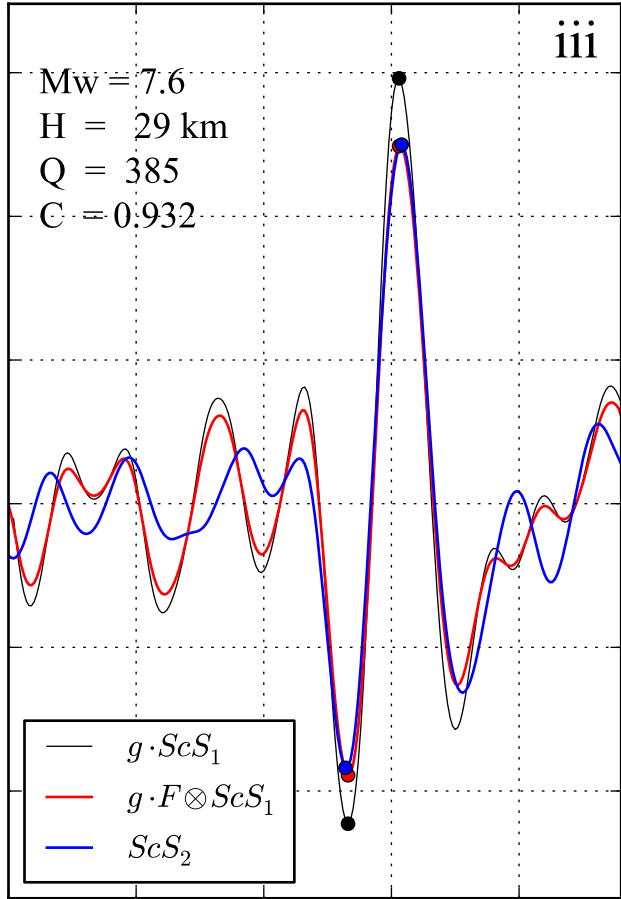
2012.249.14.37.07.069.II.JTS.00.LH2.SAC (2012/09/05)

ScS_2 - ScS_1 travel time: 936.3 τ : 42.7 s

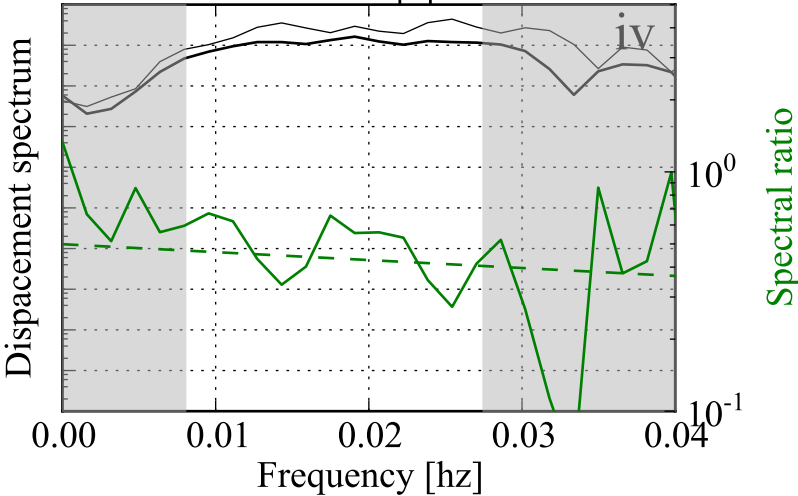
Centroid: 10.000 -85.640 29.7 km Mw 7.6

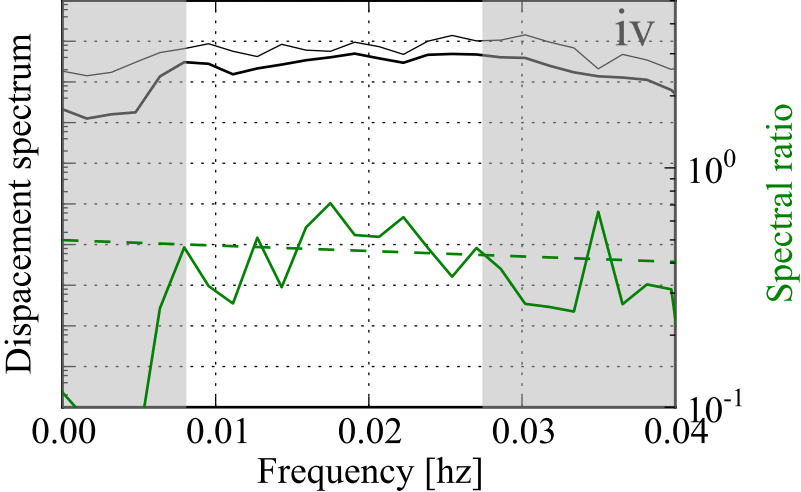
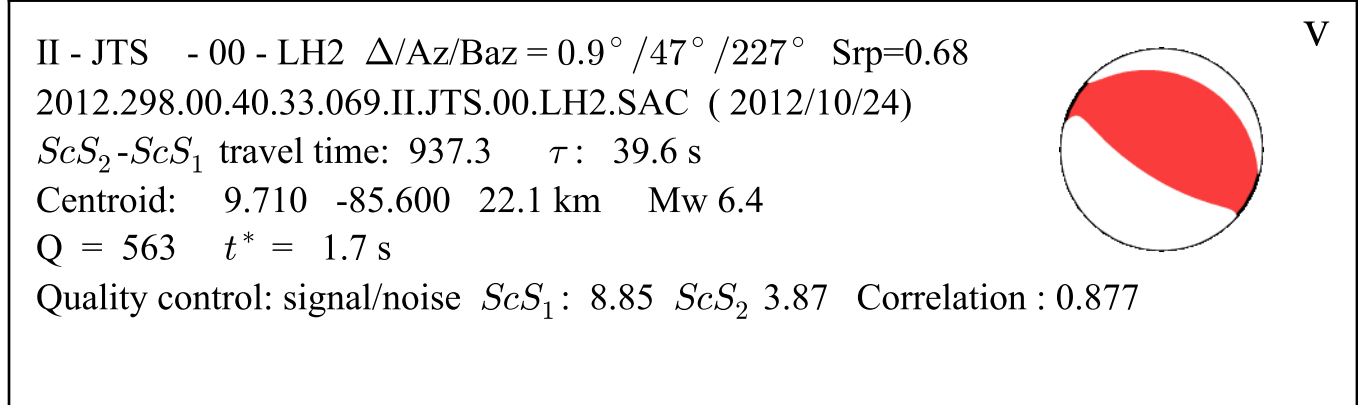
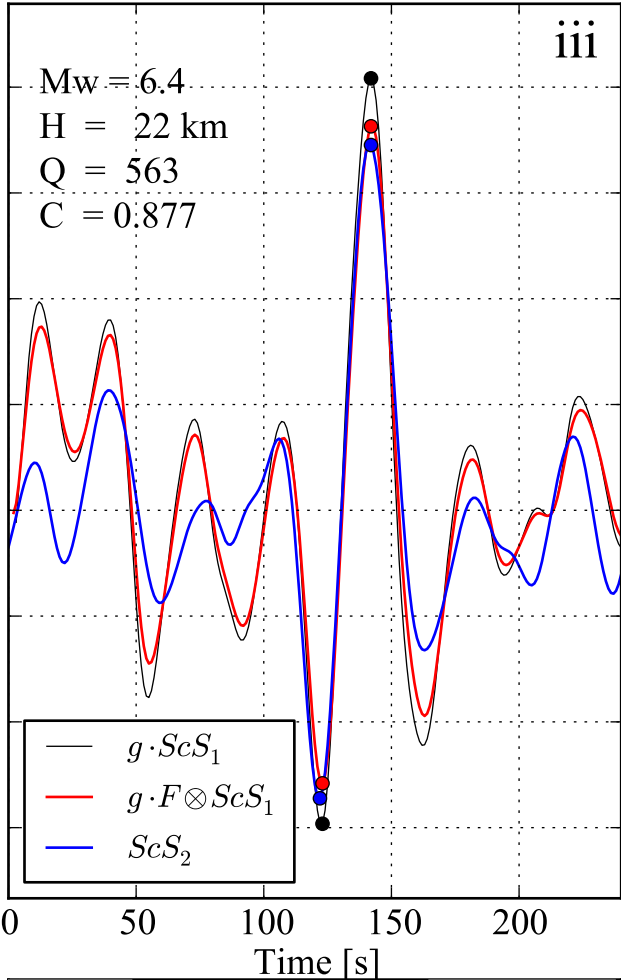
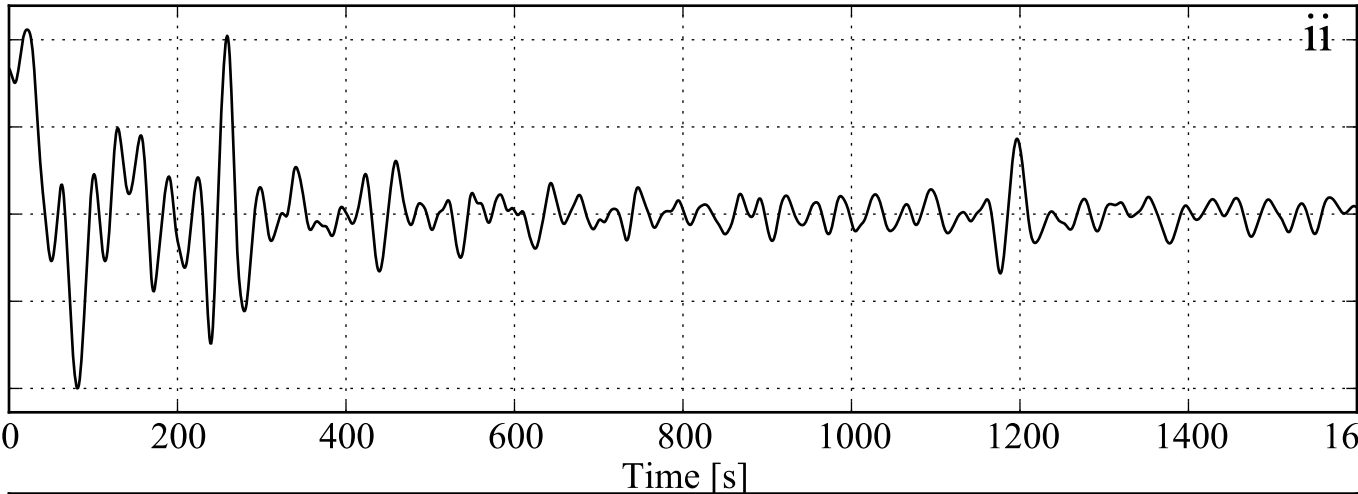
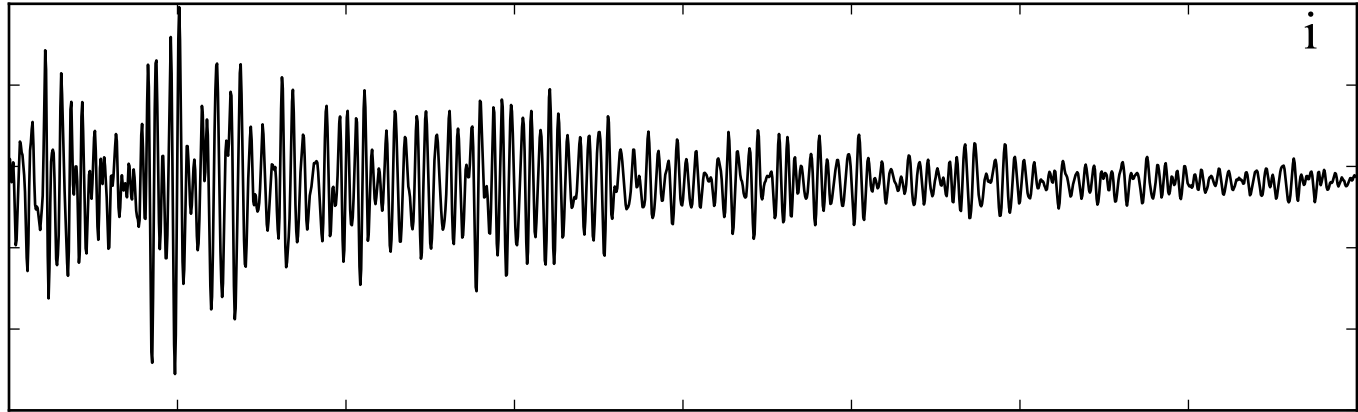
$Q = 385$ $t^* = 2.4$ s

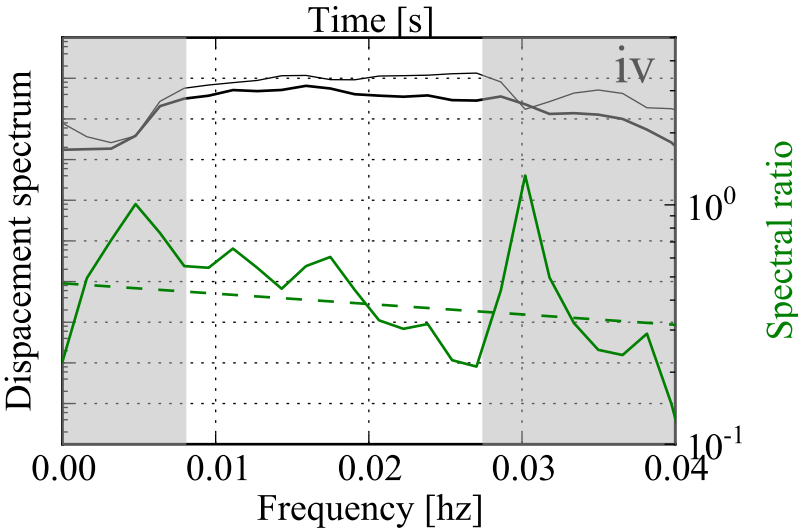
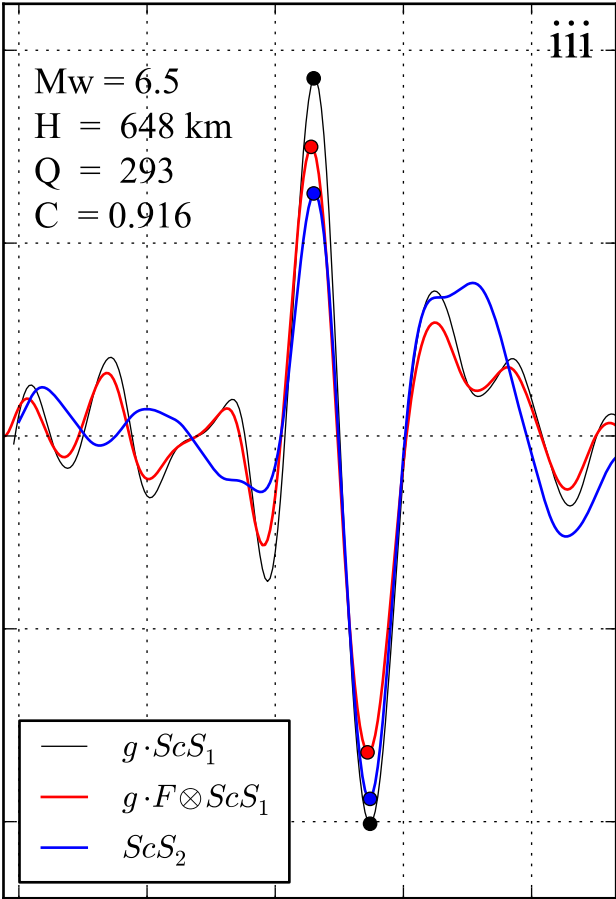
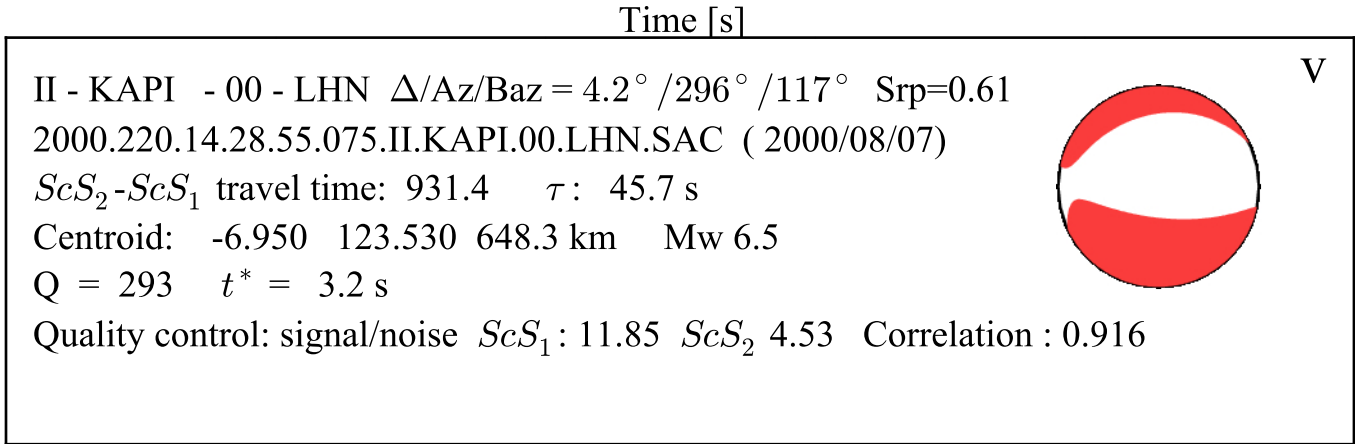
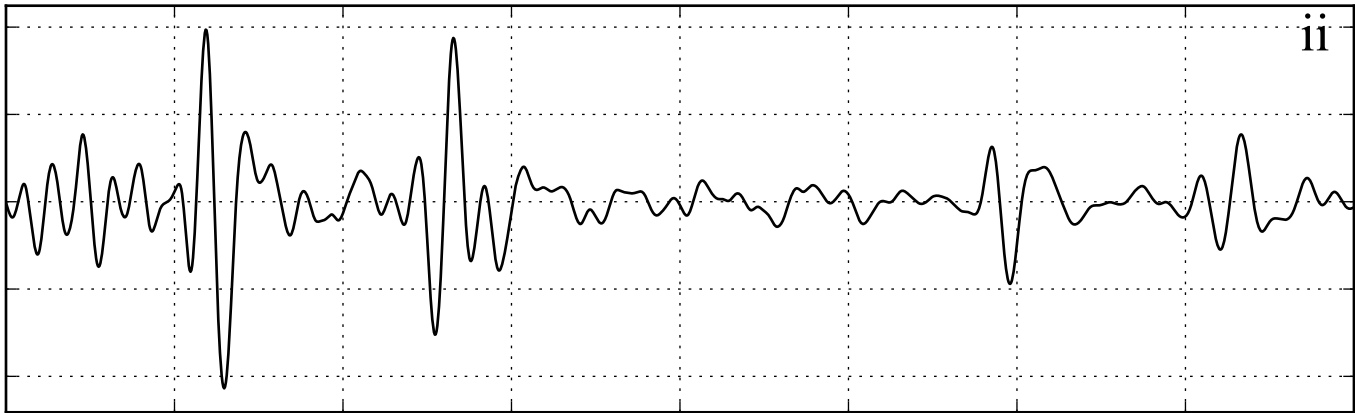
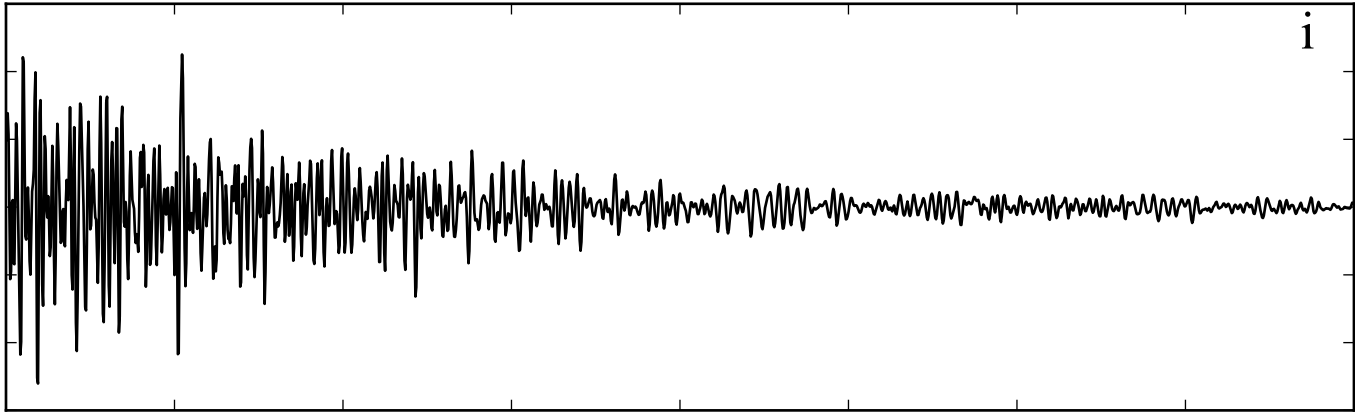
Quality control: signal/noise ScS_1 : 9.31 ScS_2 3.88 Correlation : 0.932

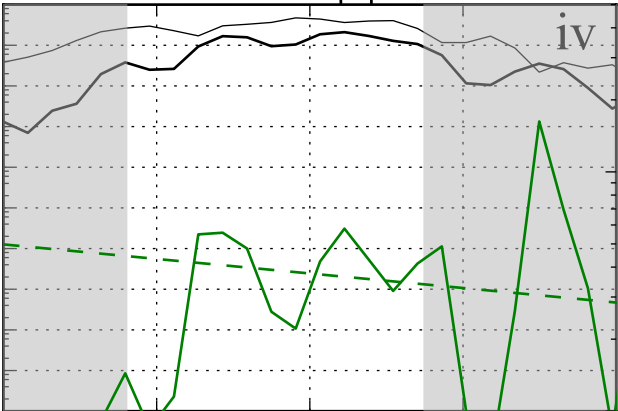
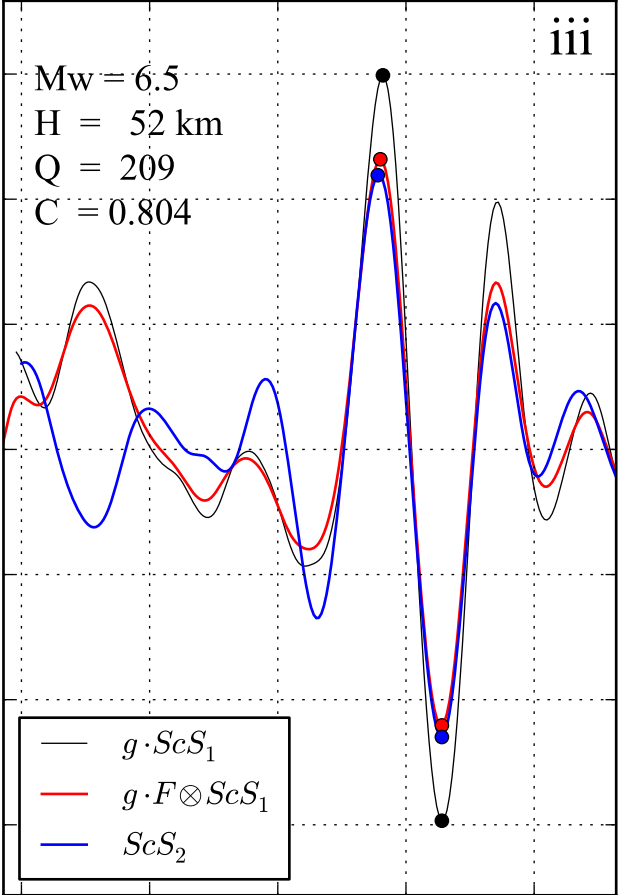
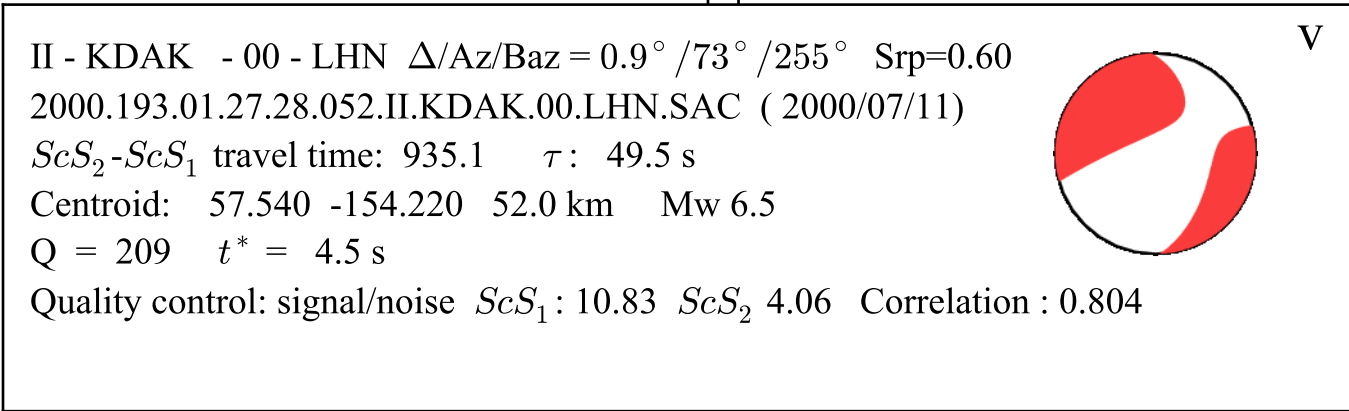
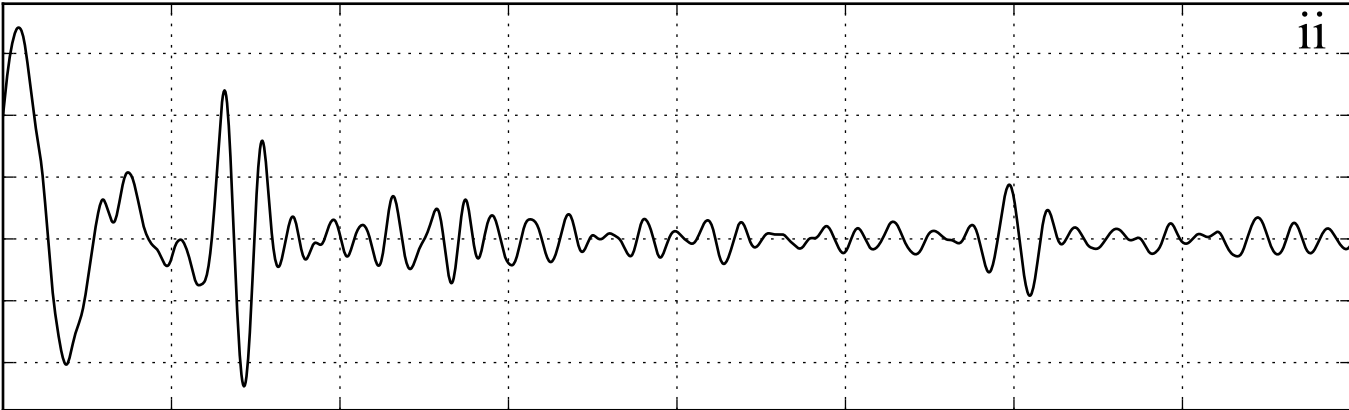
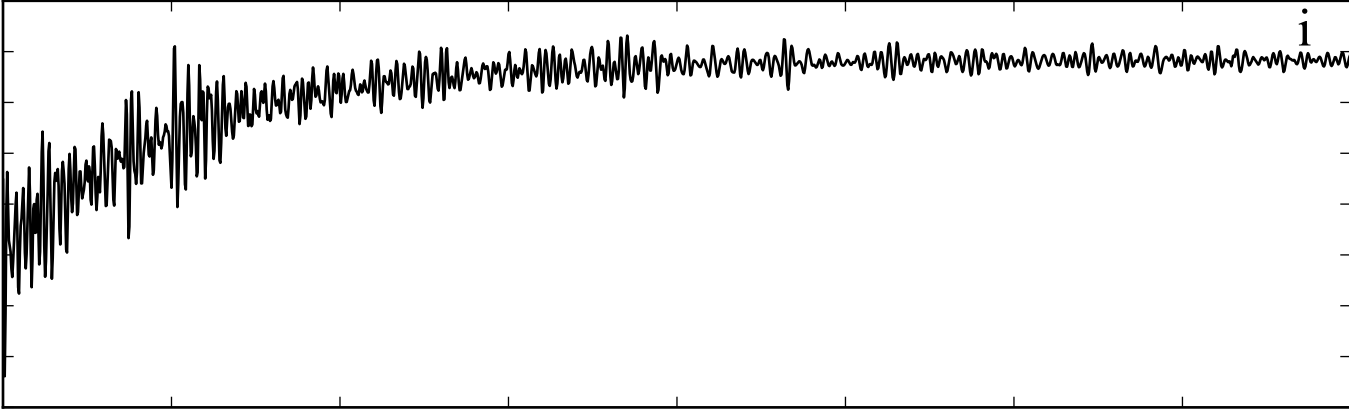


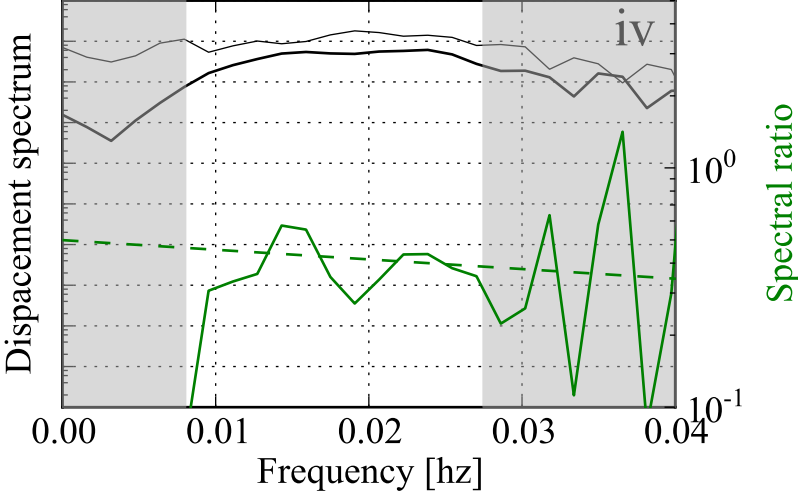
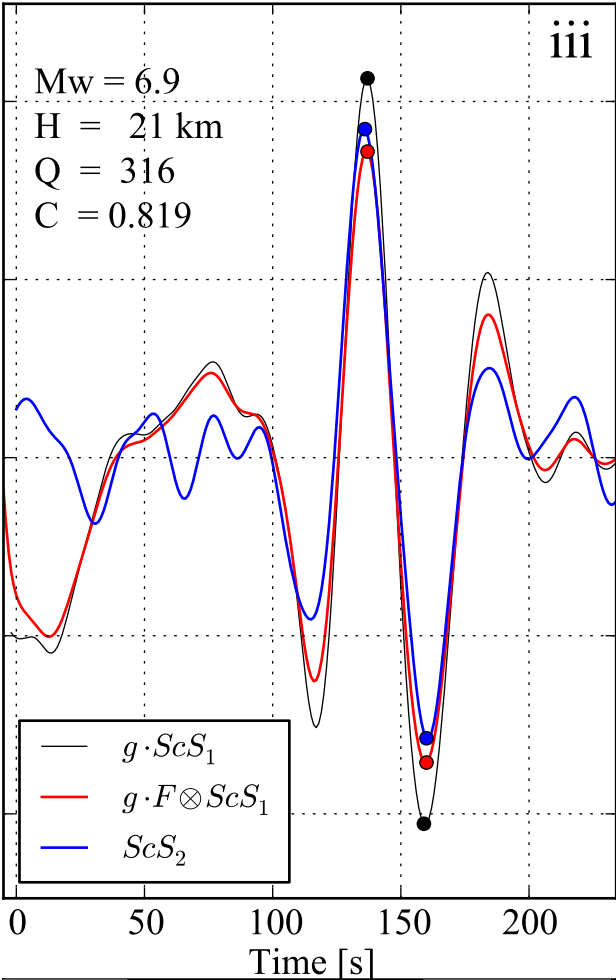
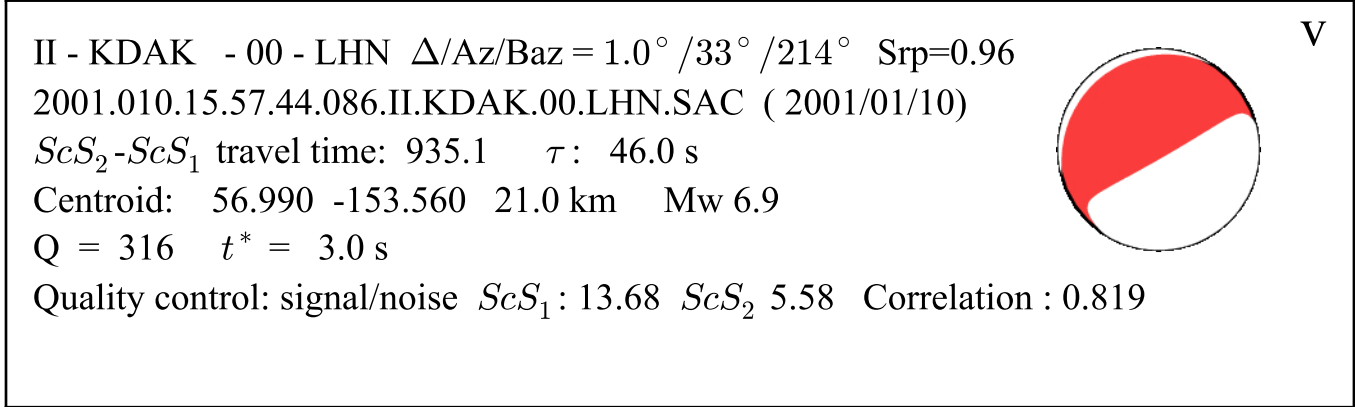
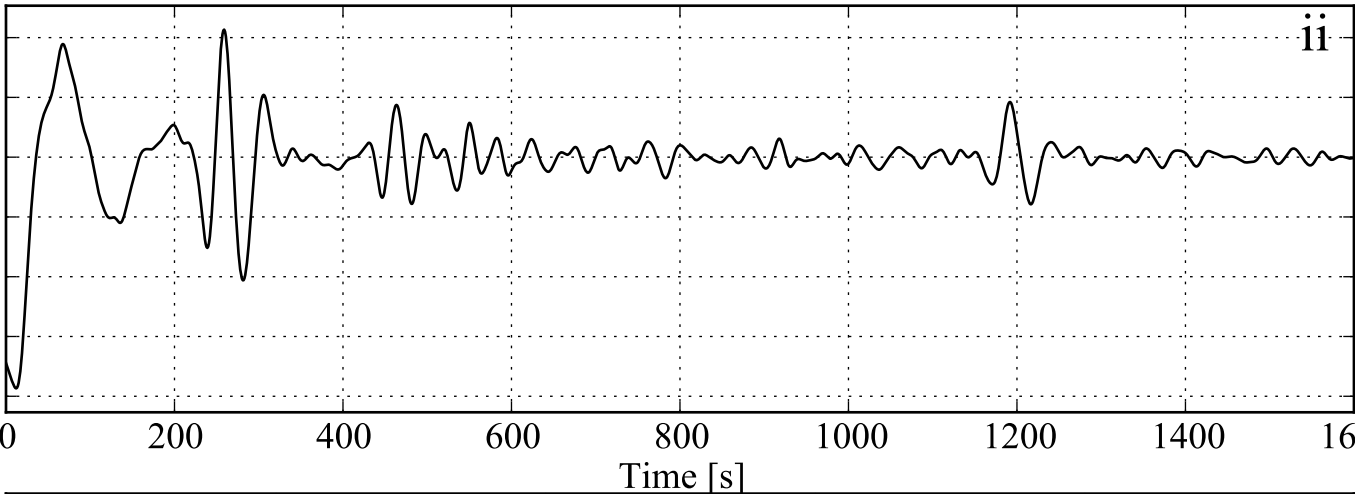
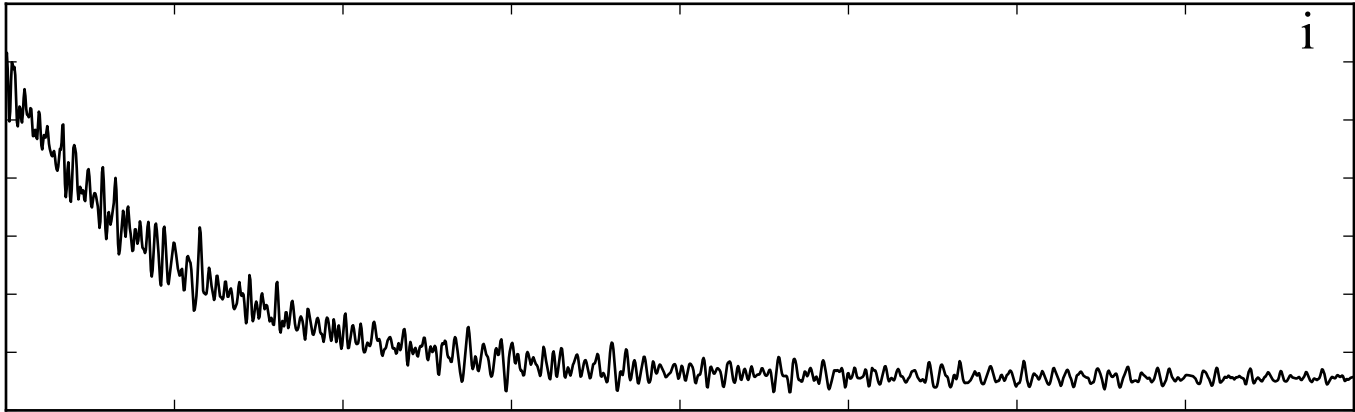
Time [s]

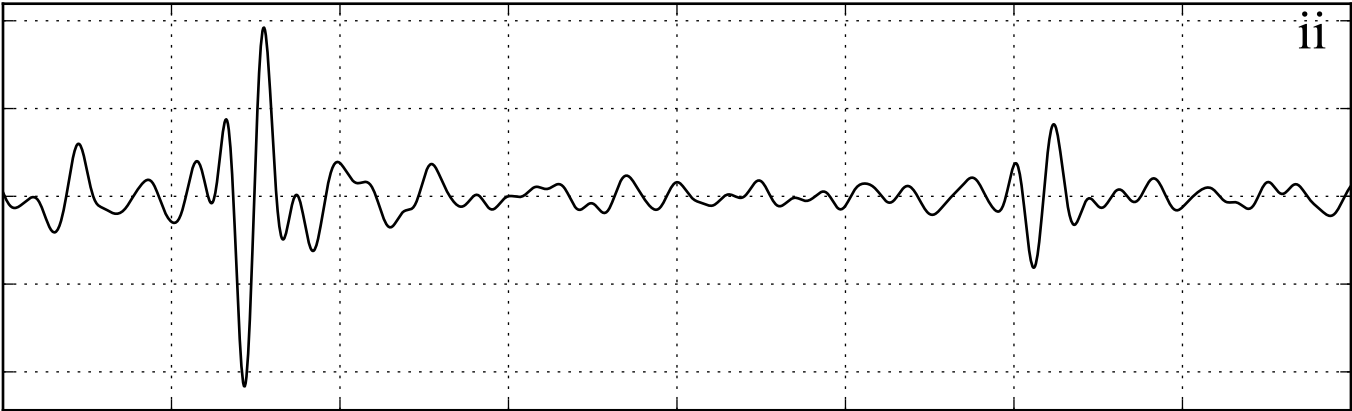
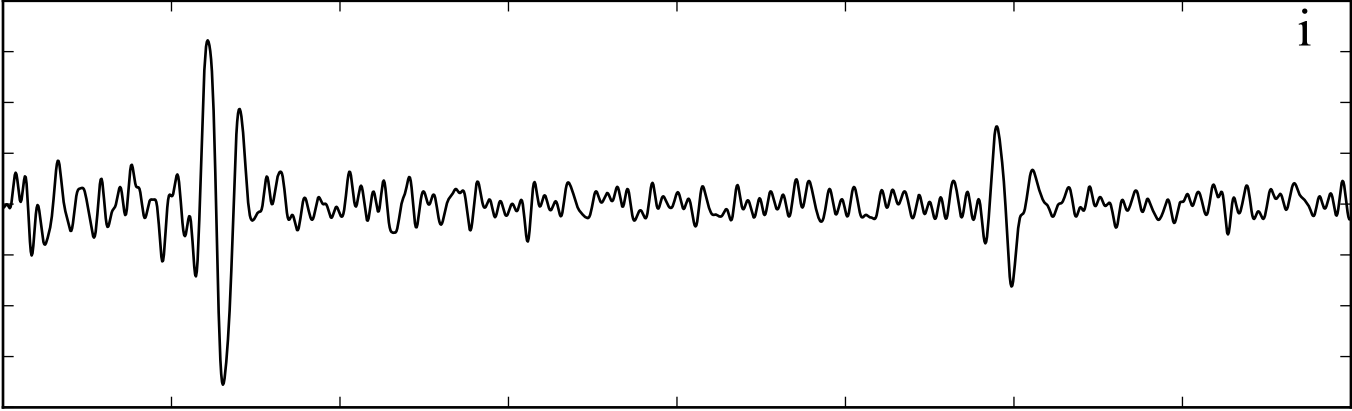




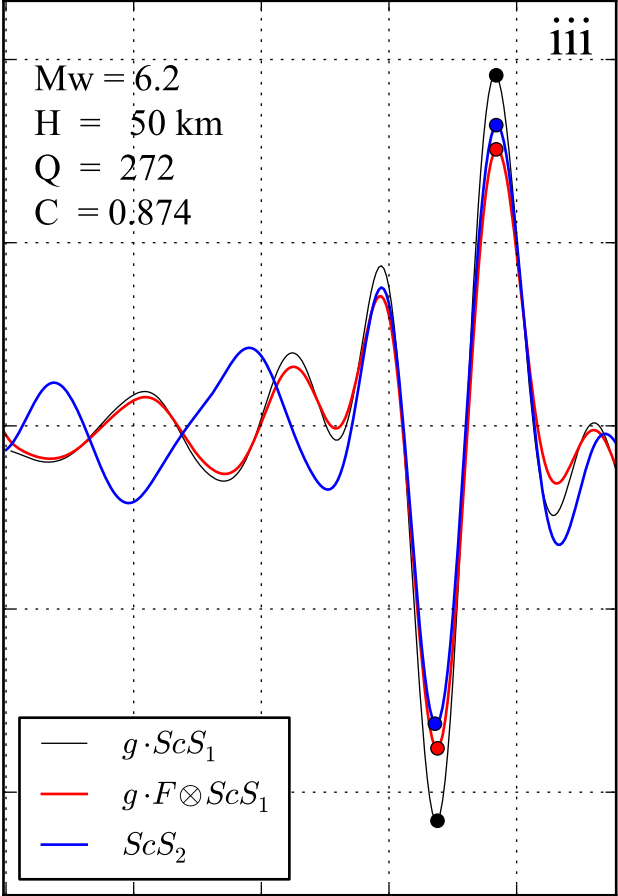
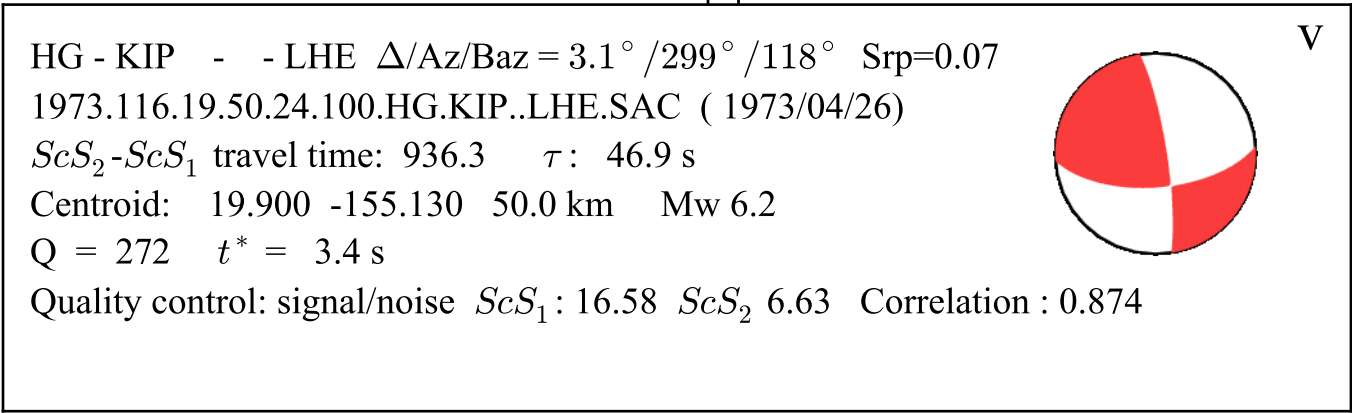




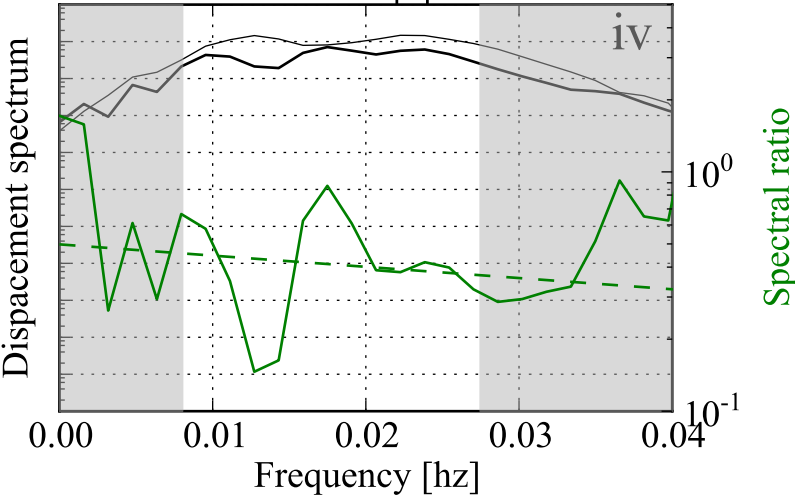


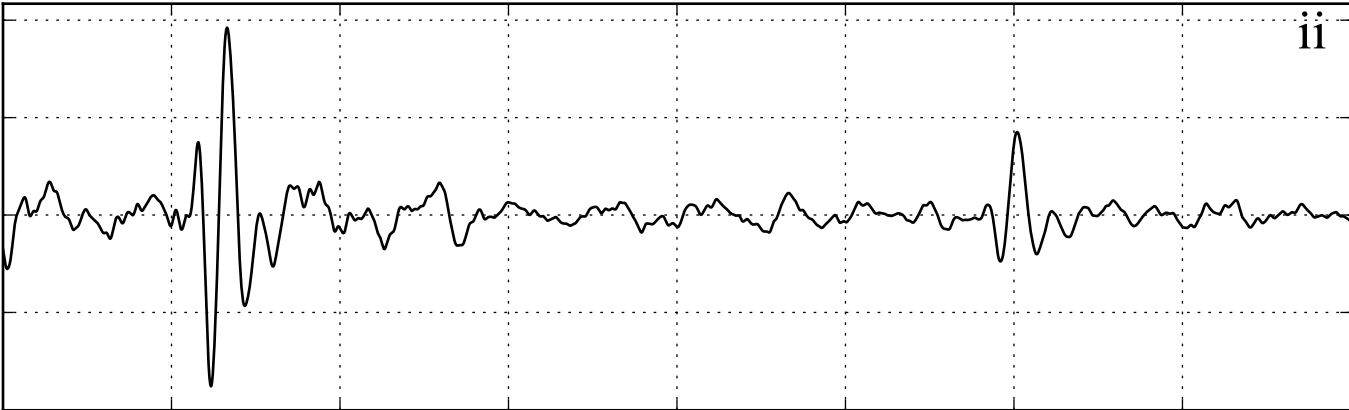
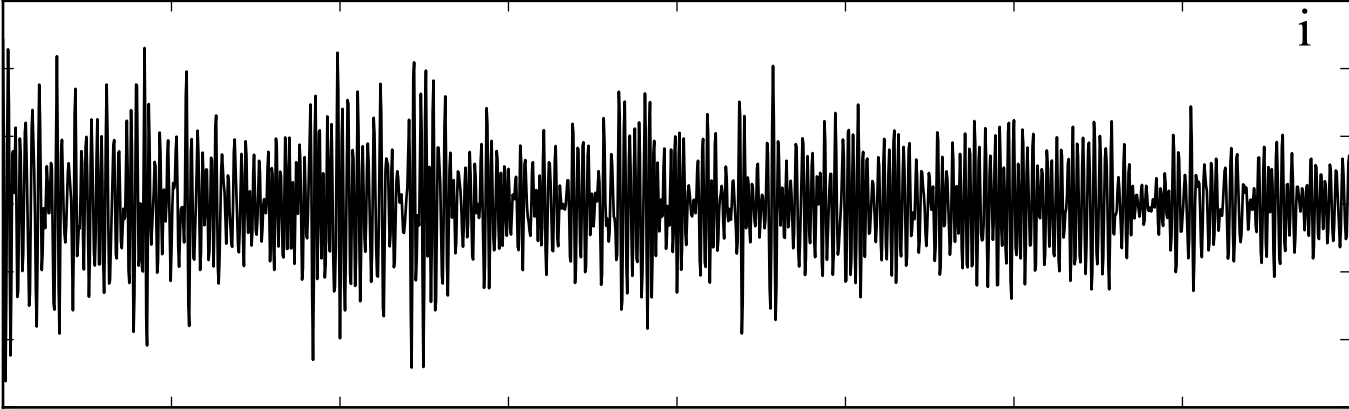


Time [s]



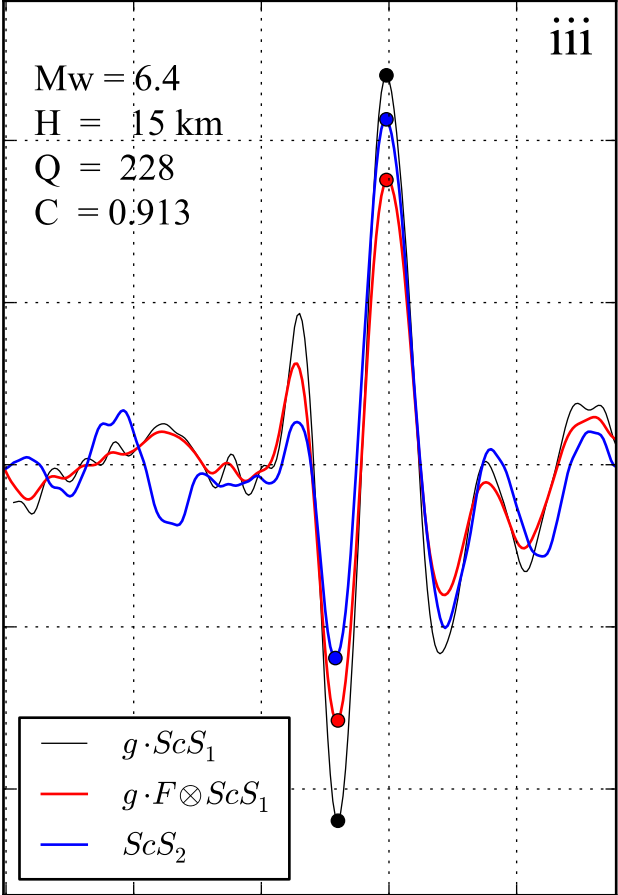
Time [s]



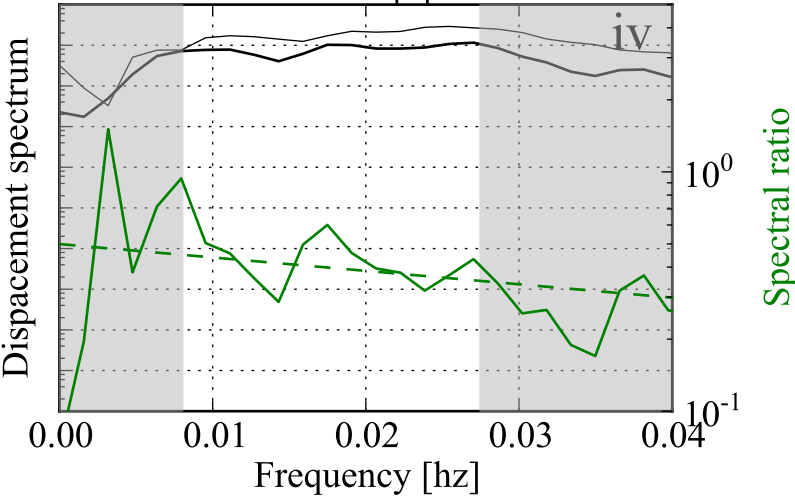


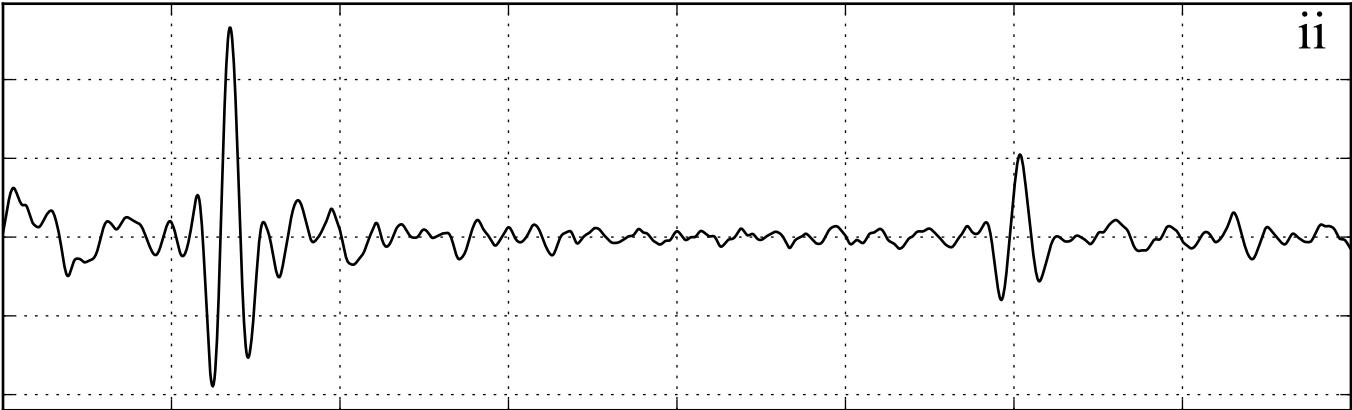
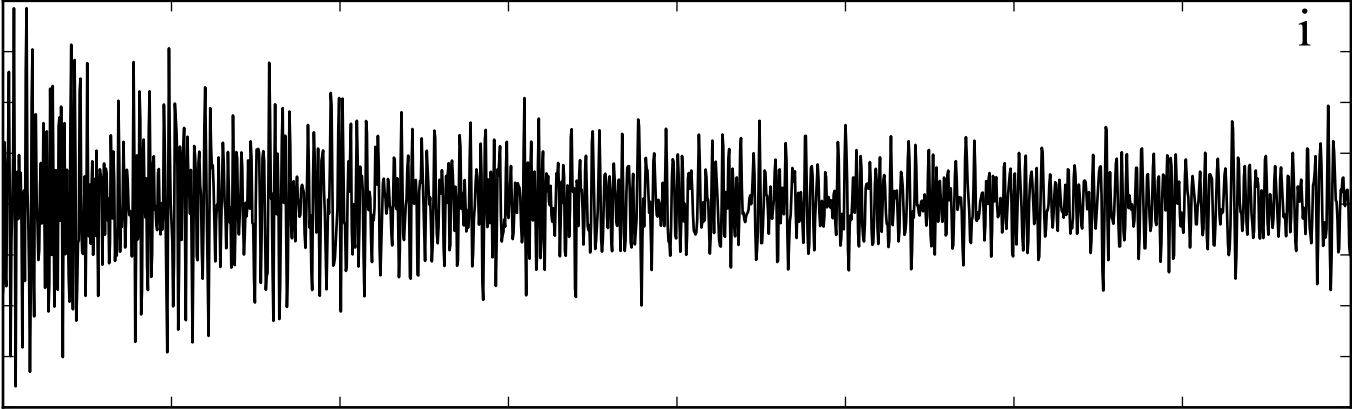
Time [s]

G - KIP - - LHN $\Delta/Az/Baz = 3.4^\circ/305^\circ/124^\circ$ $Srp=0.97$
1989.177.03.22.03.157.G.KIP..LHN.SAC (1989/06/26)
 ScS_2 - ScS_1 travel time: 937.2 τ : 39.7 s
Centroid: 19.470 -155.060 15.0 km Mw 6.4
 $Q = 228$ $t^* = 4.1$ s
Quality control: signal/noise ScS_1 : 14.44 ScS_2 5.21 Correlation : 0.913



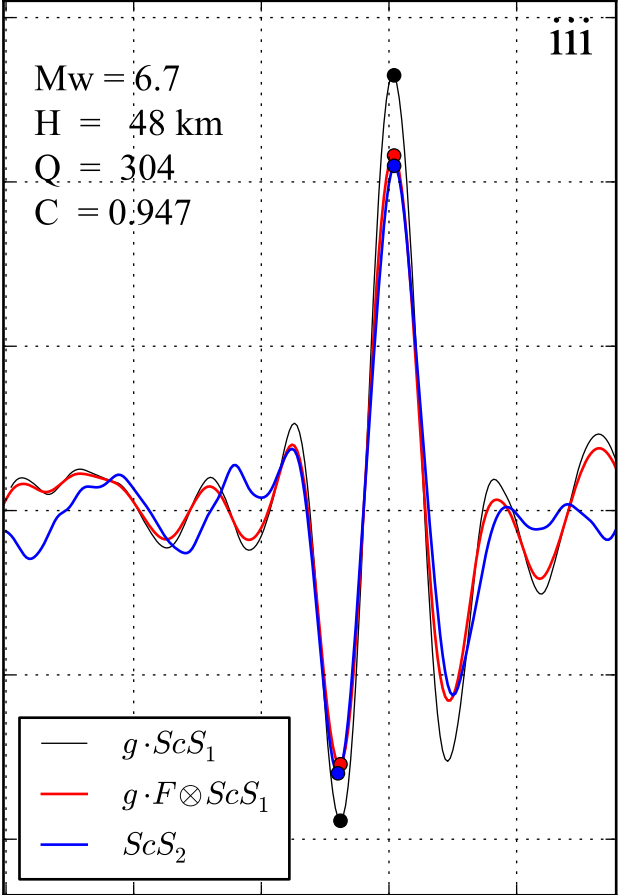
Time [s]



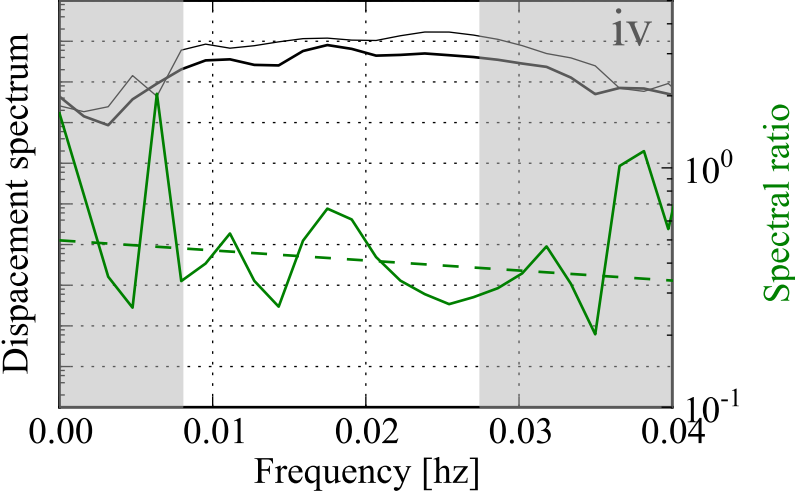


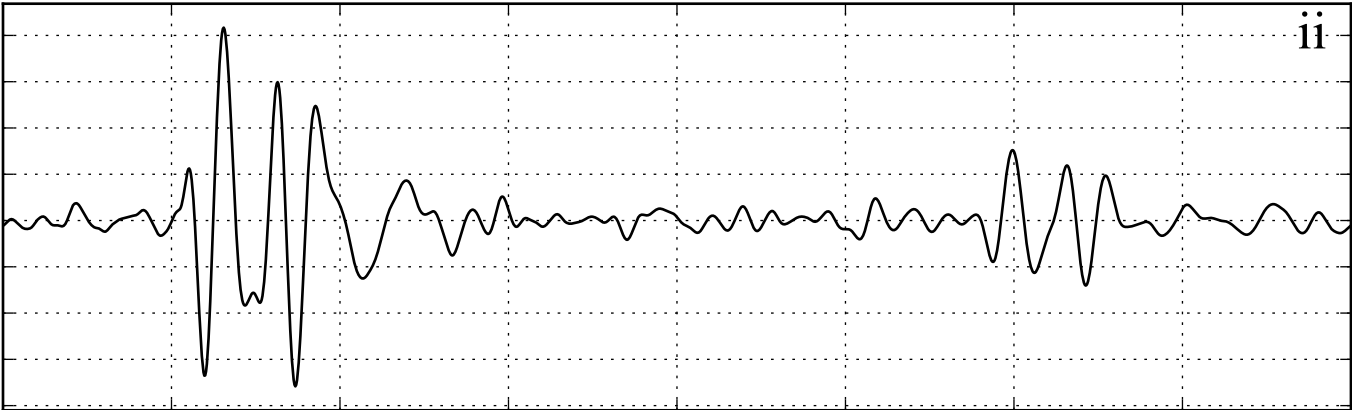
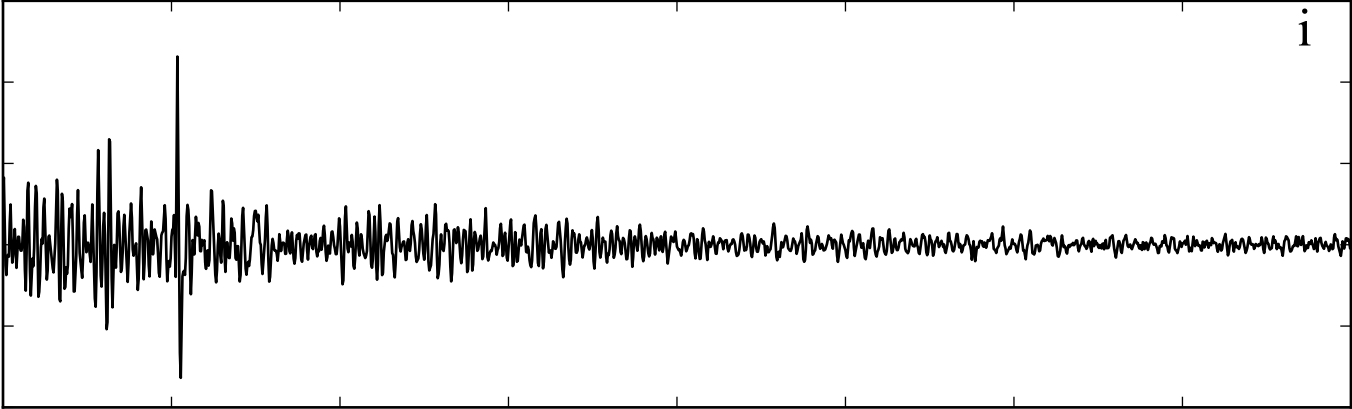
Time [s]

G - KIP - 00 - LHE $\Delta/Az/Baz = 2.5^\circ/309^\circ/128^\circ$ $Srp=0.56$
2006.288.17.02.49.048.G.KIP.00.LHE.SAC (2006/10/15)
 ScS_2-ScS_1 travel time: 936.4 τ : 43.9 s
Centroid: 19.830 -155.940 48.0 km Mw 6.7
 $Q = 304$ $t^* = 3.1$ s
Quality control: signal/noise ScS_1 : 24.07 ScS_2 9.77 Correlation : 0.947

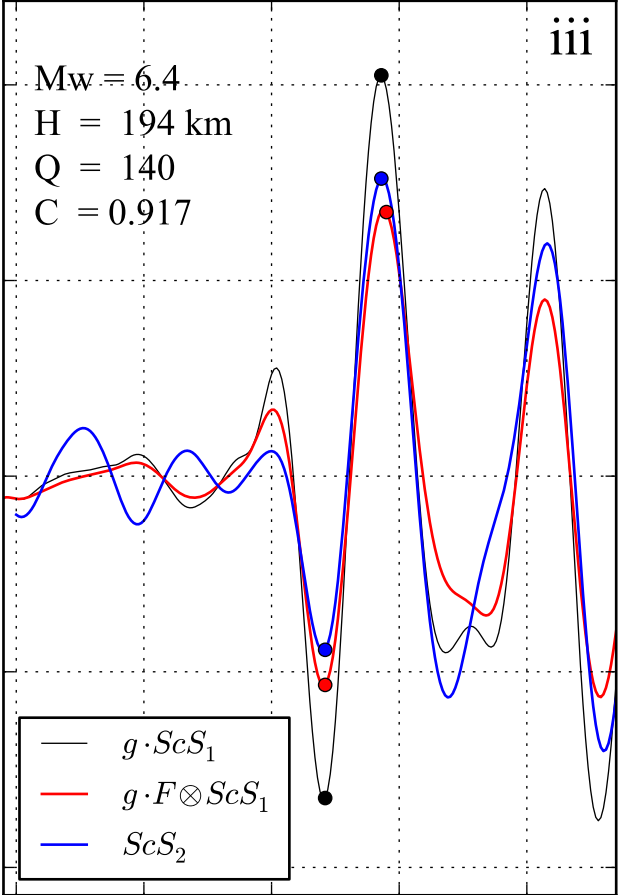
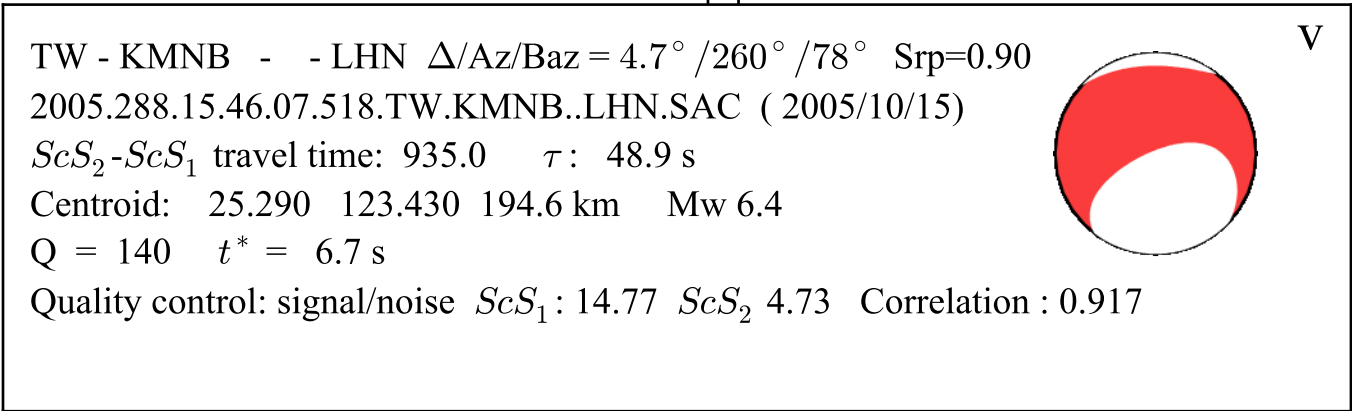


Time [s]

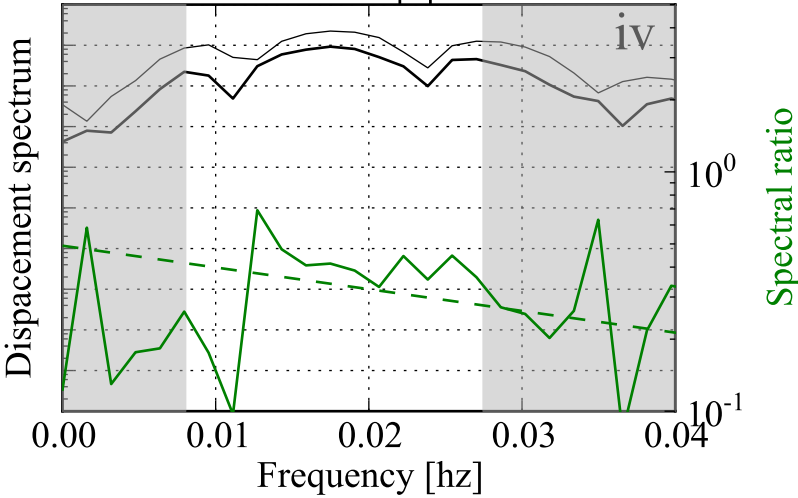


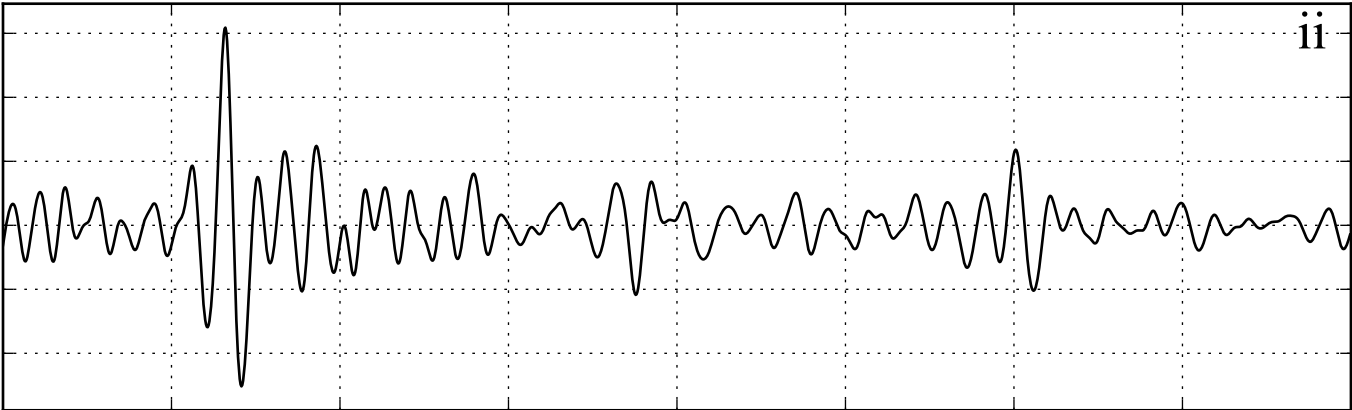
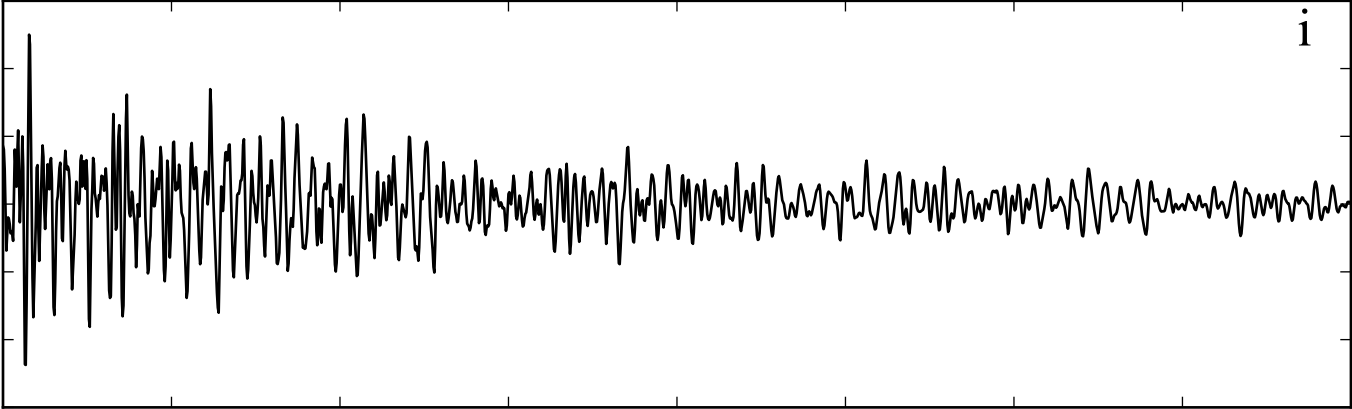


Time [s]

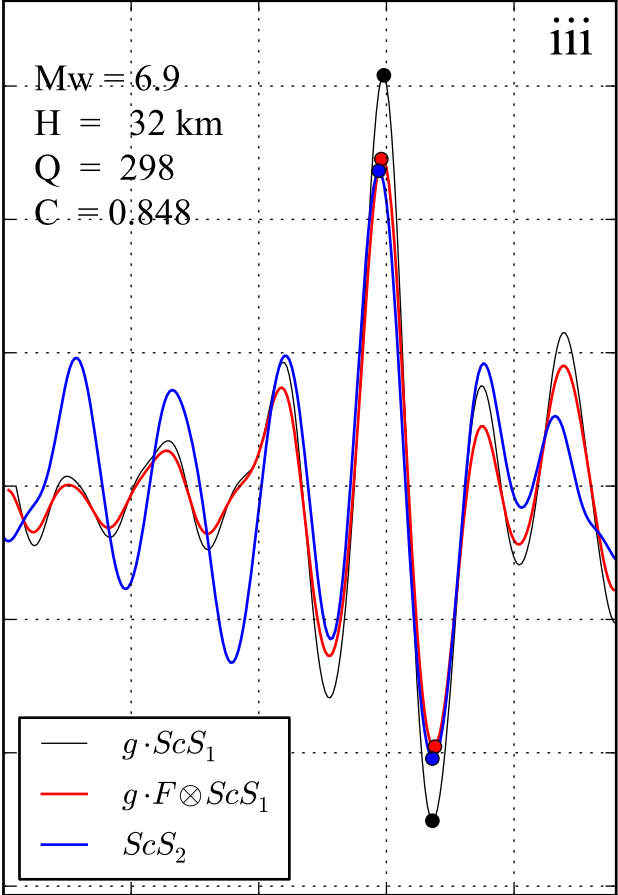
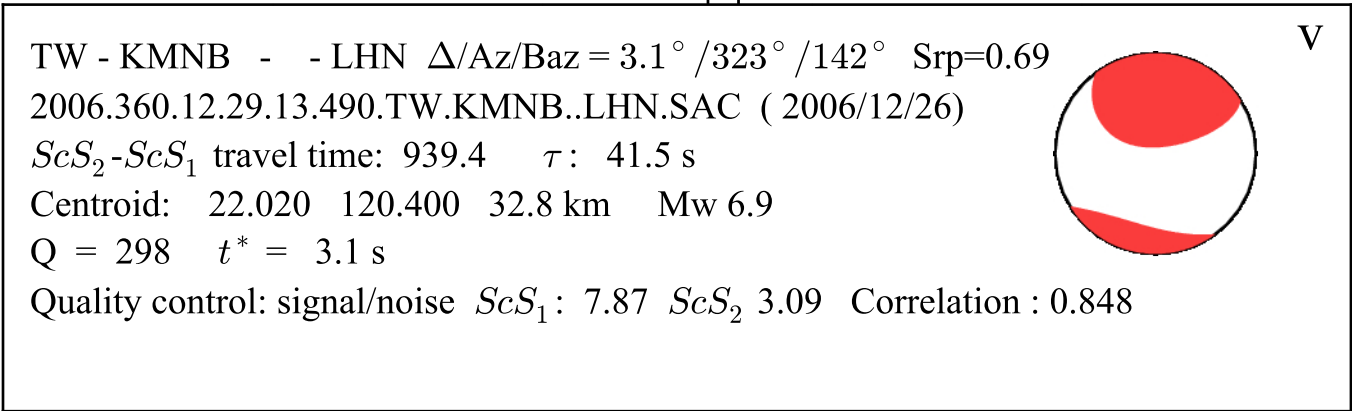


Time [s]

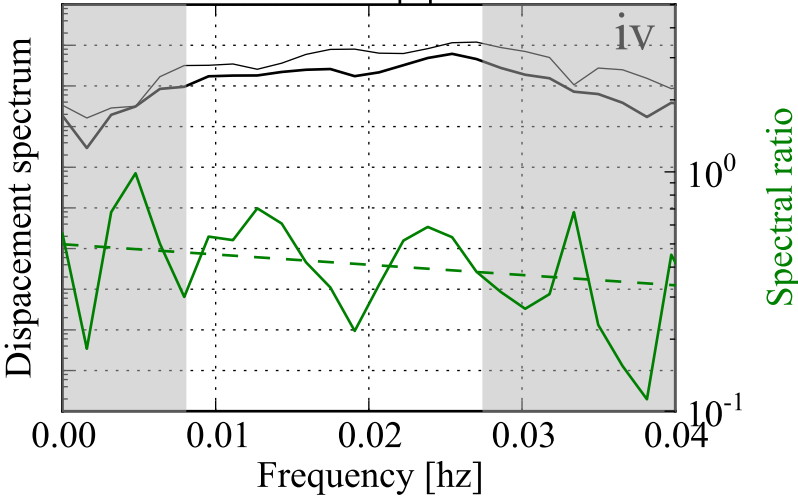


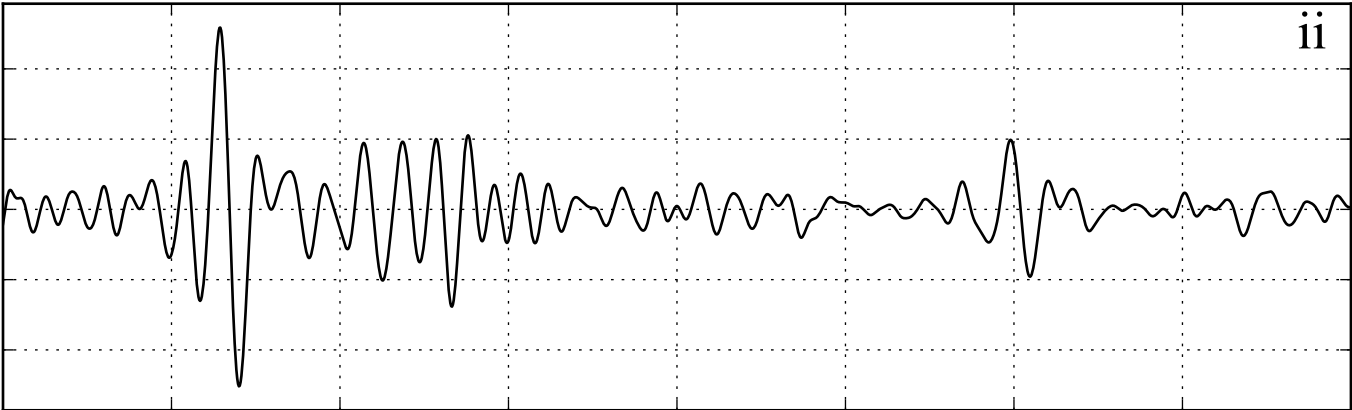
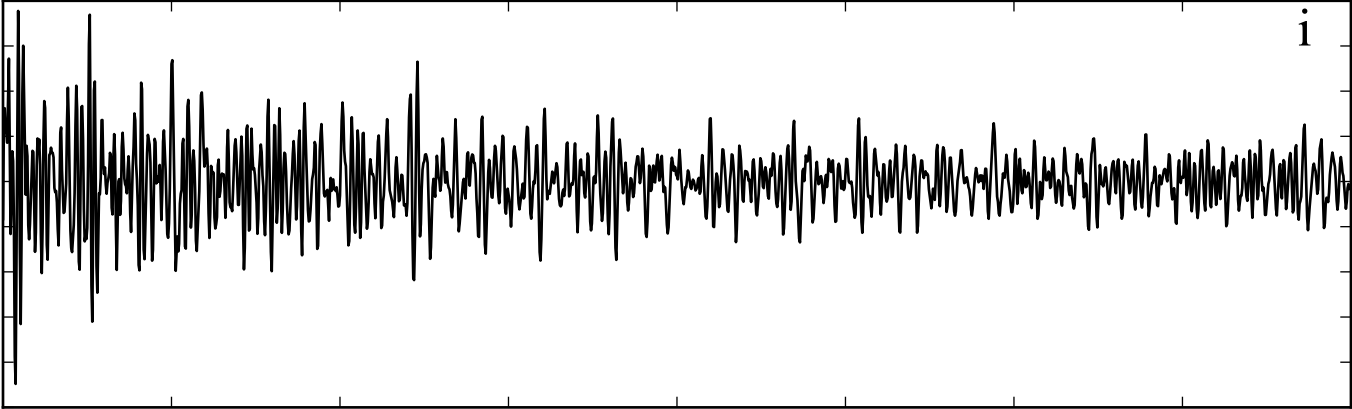


Time [s]

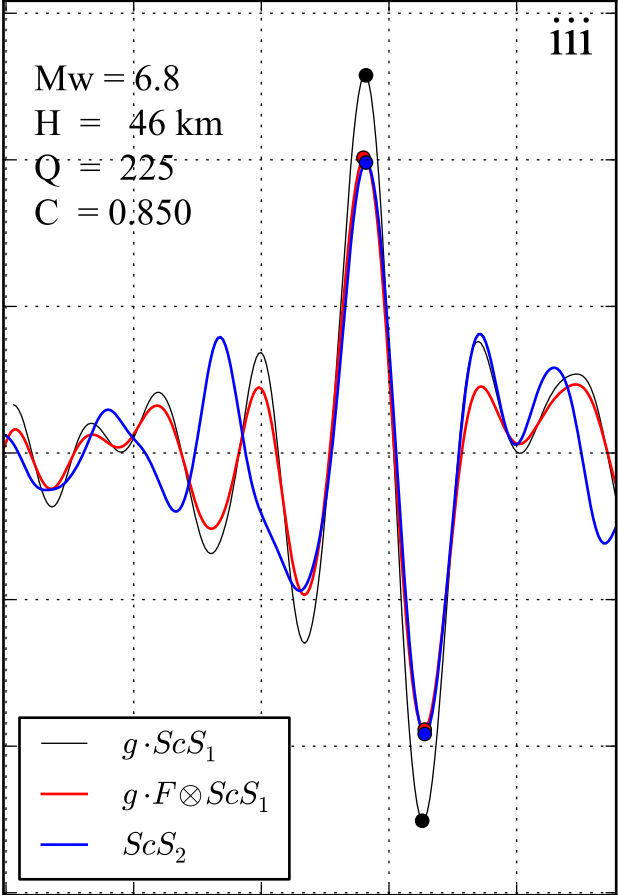
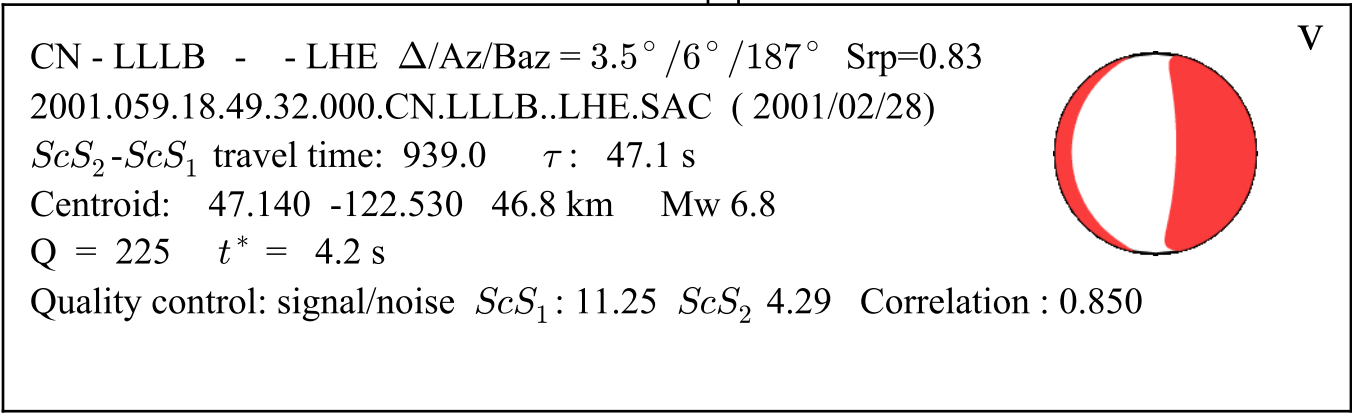


Time [s]

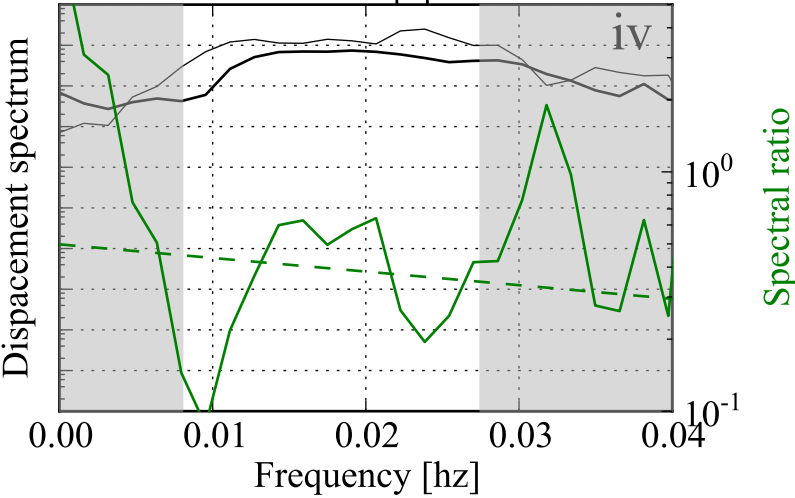


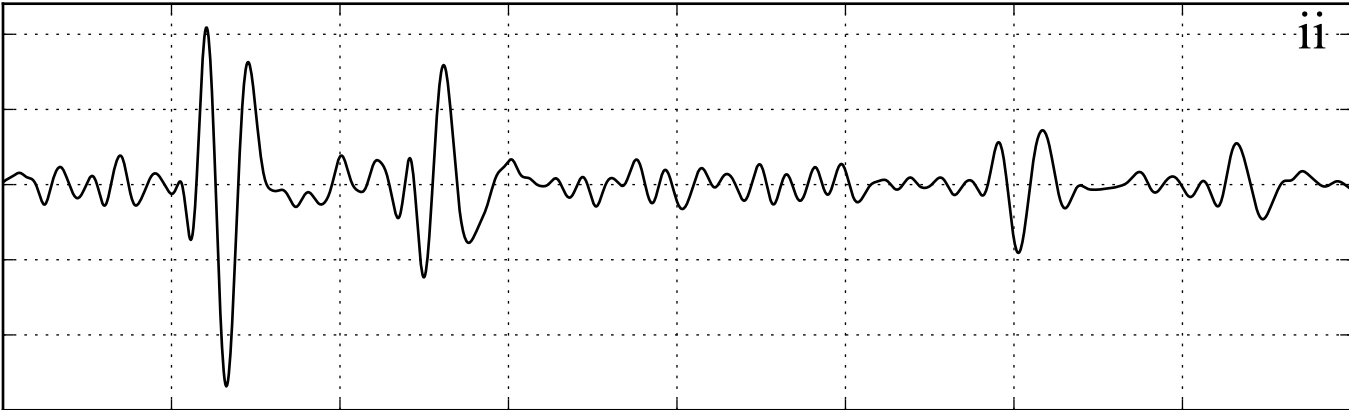
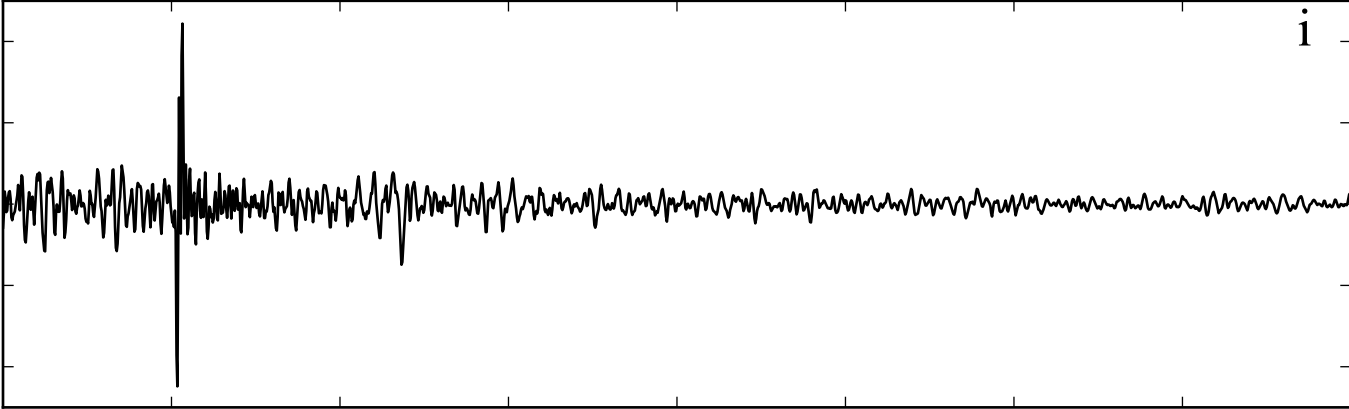


Time [s]

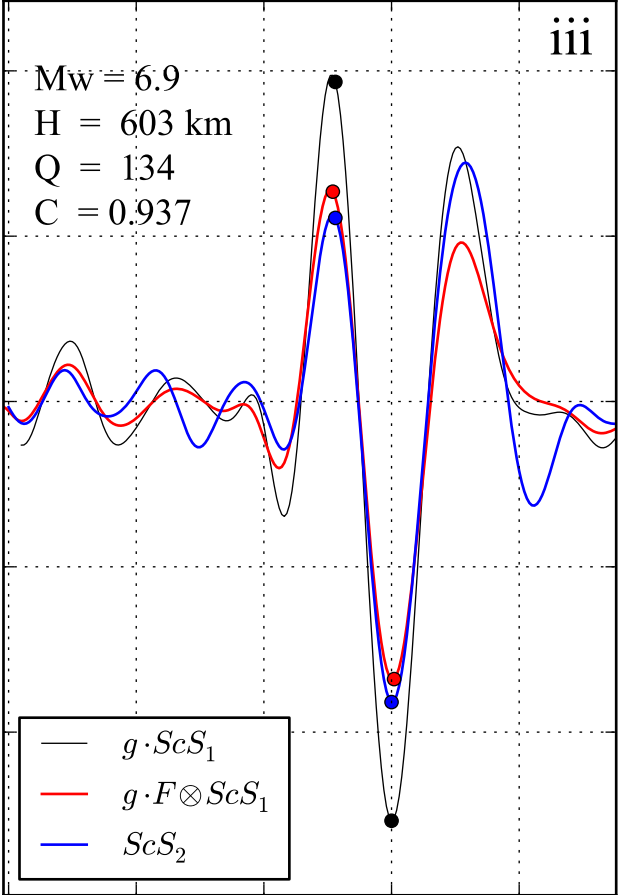
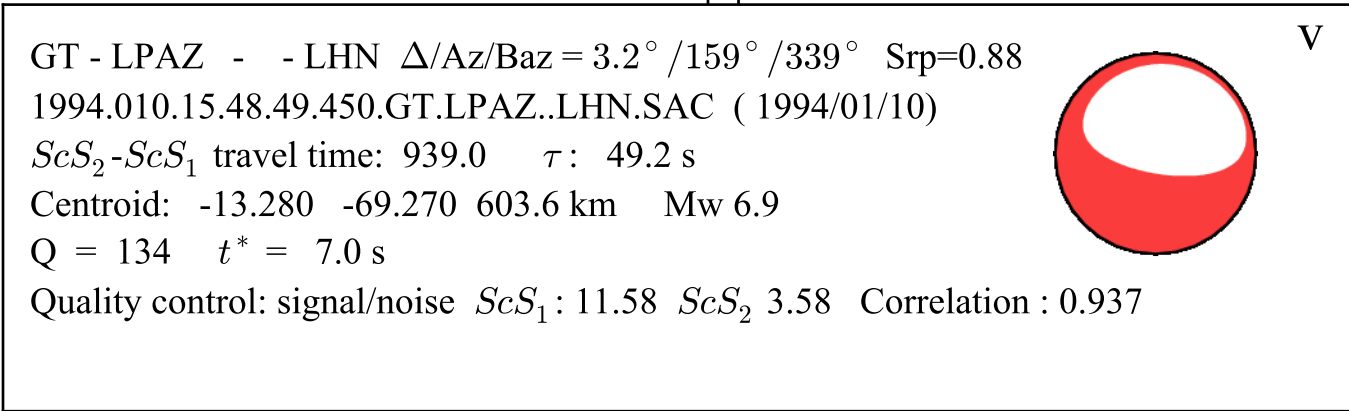


Time [s]

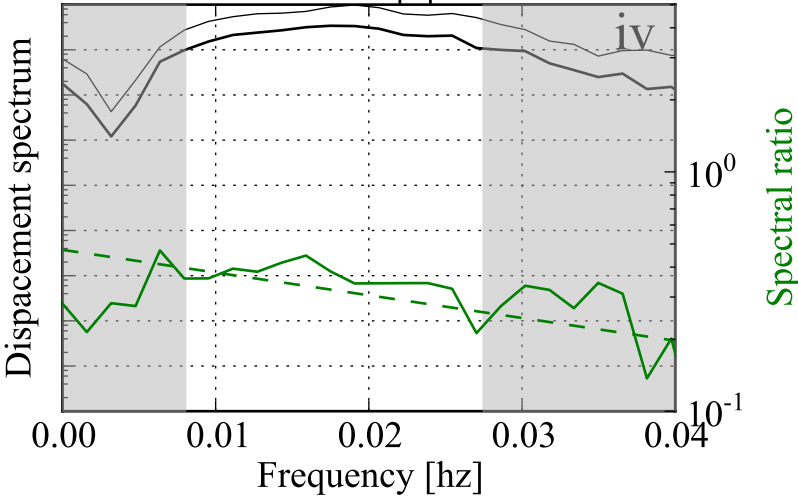


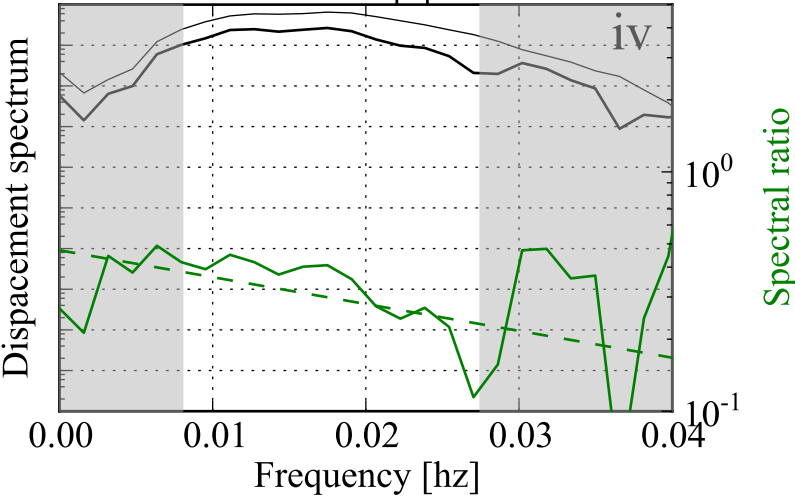
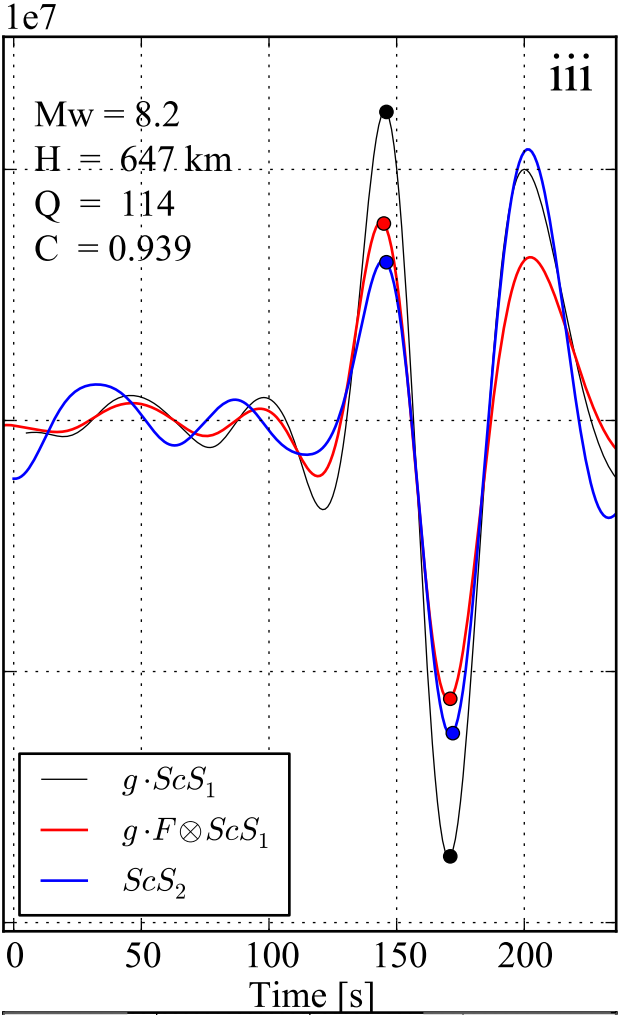
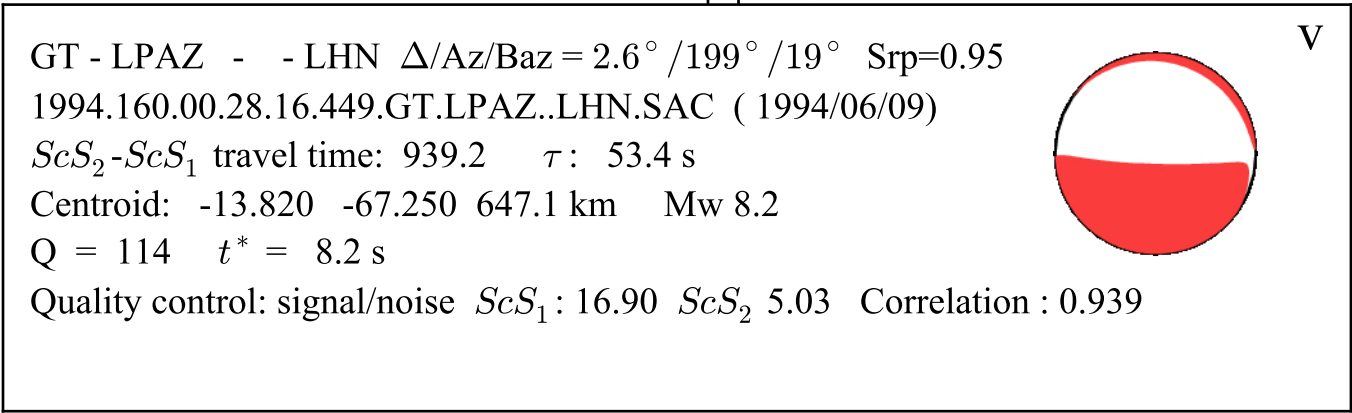
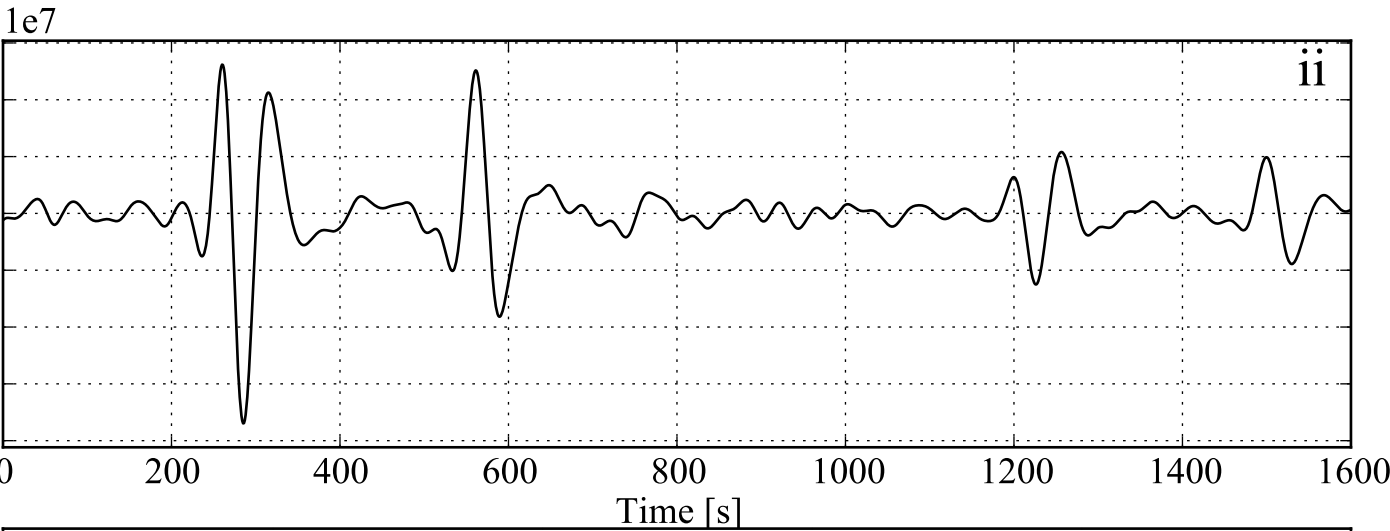
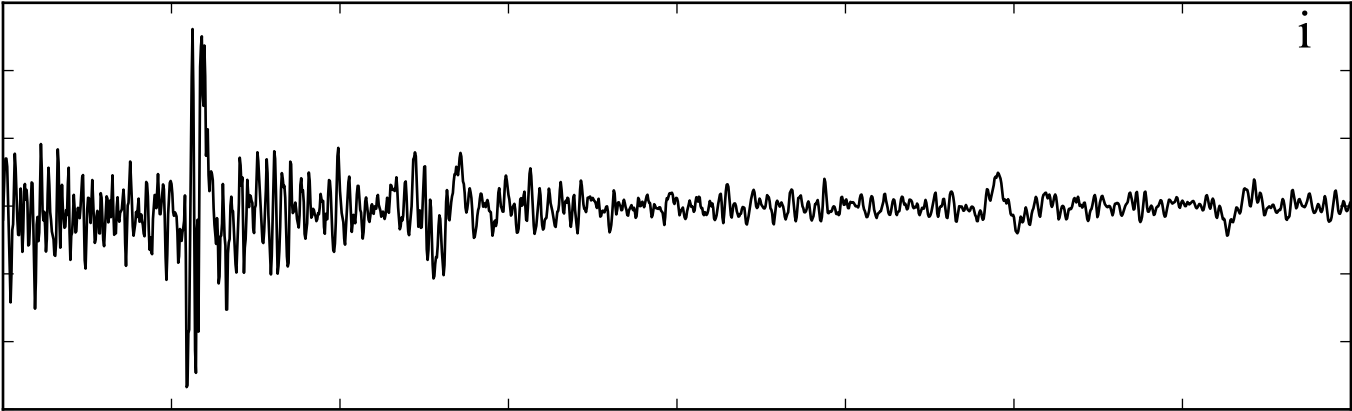


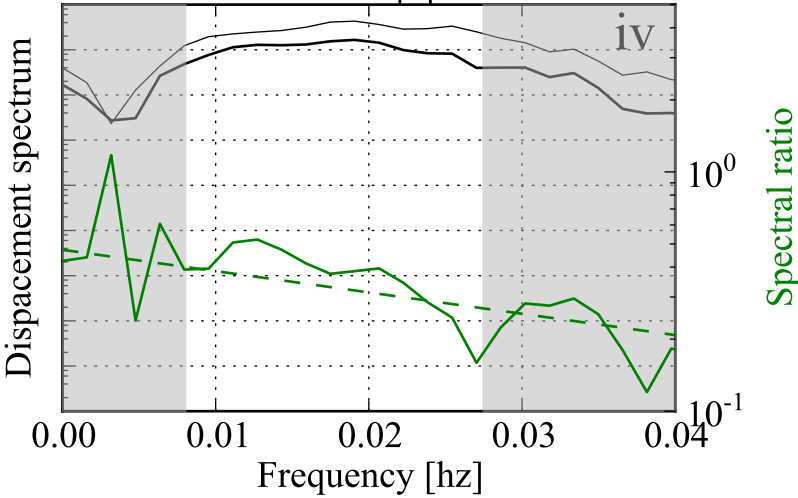
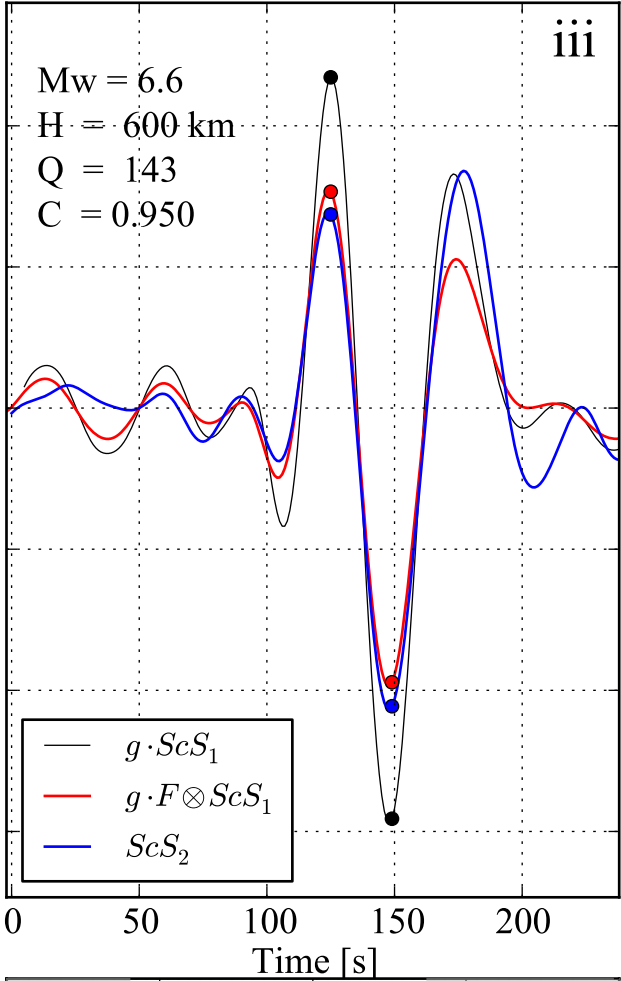
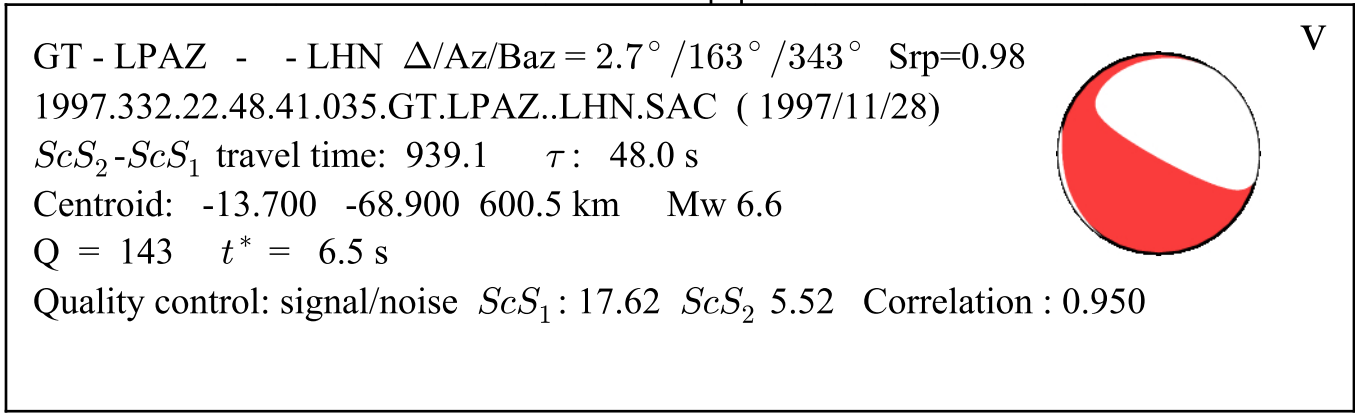
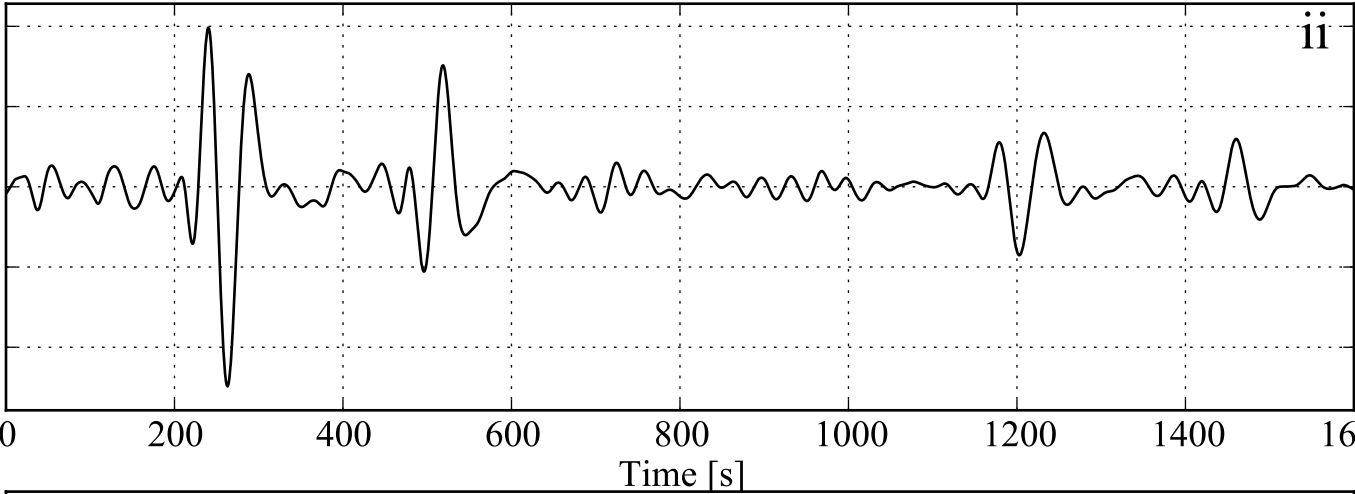
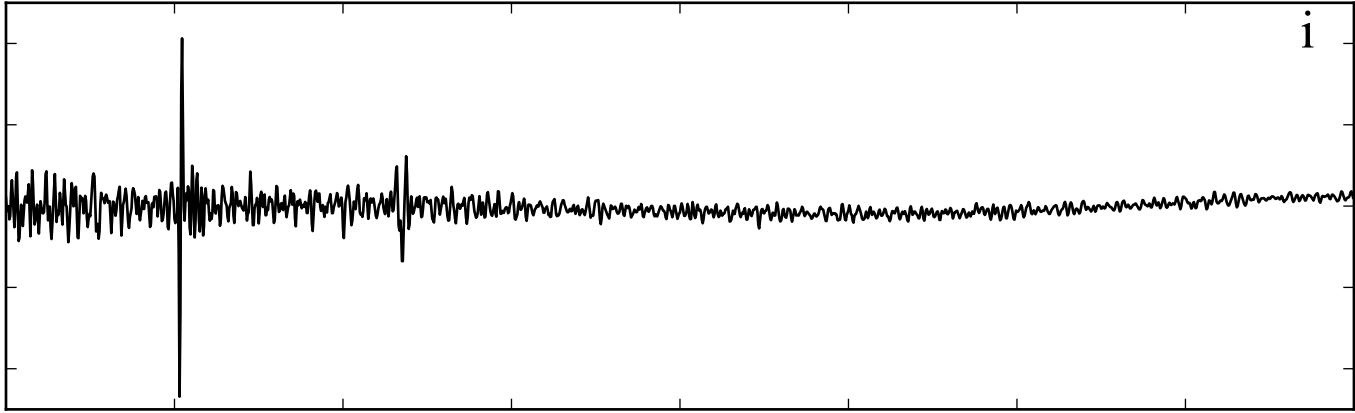
Time [s]

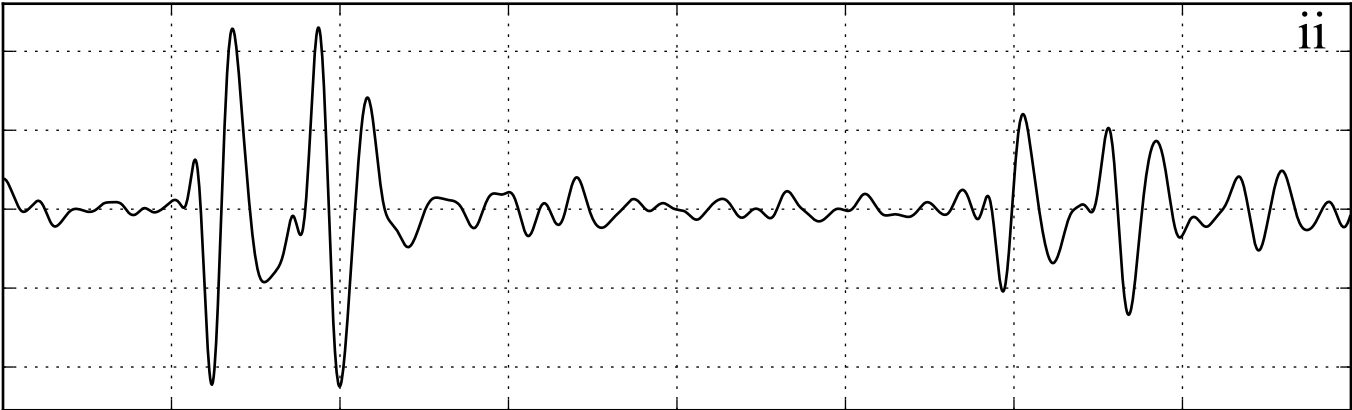
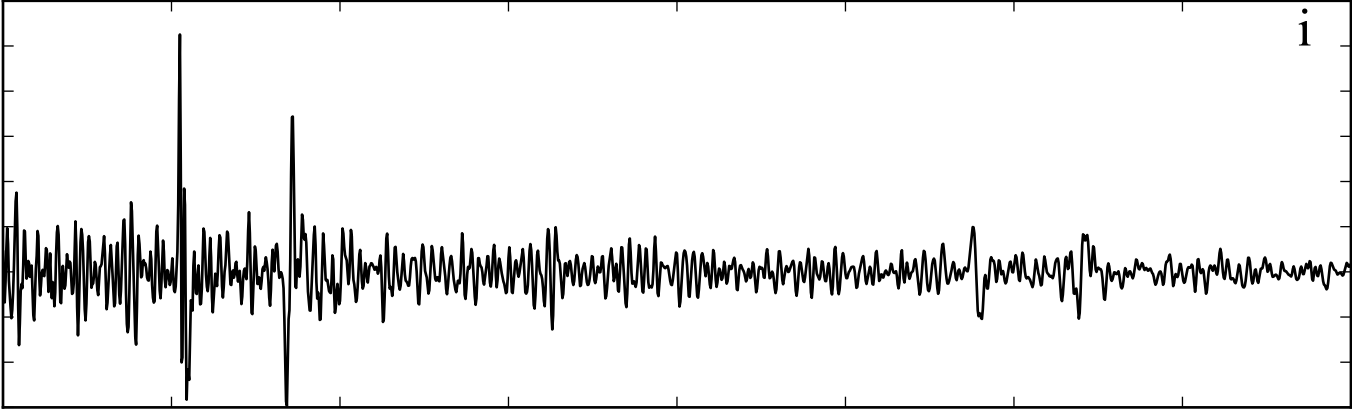


Time [s]

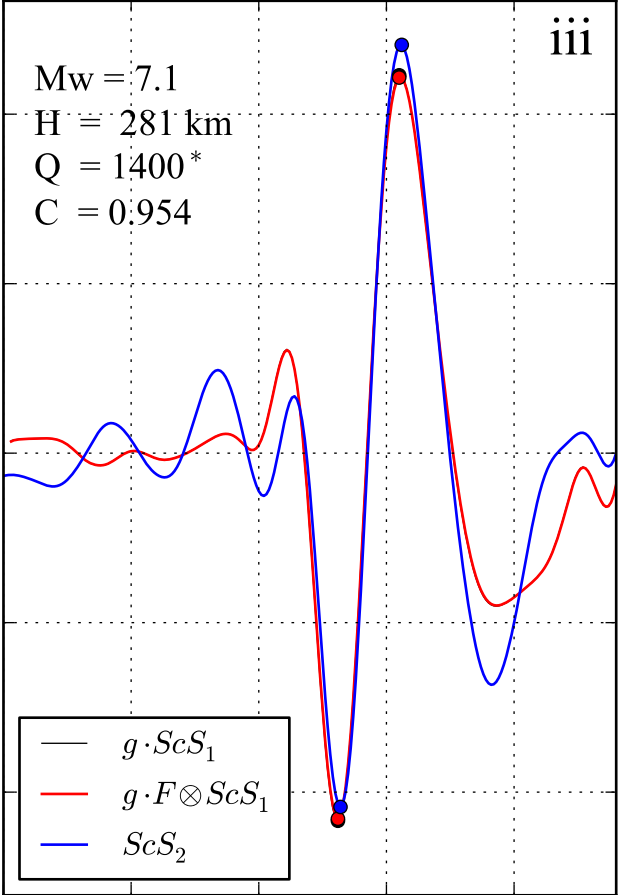
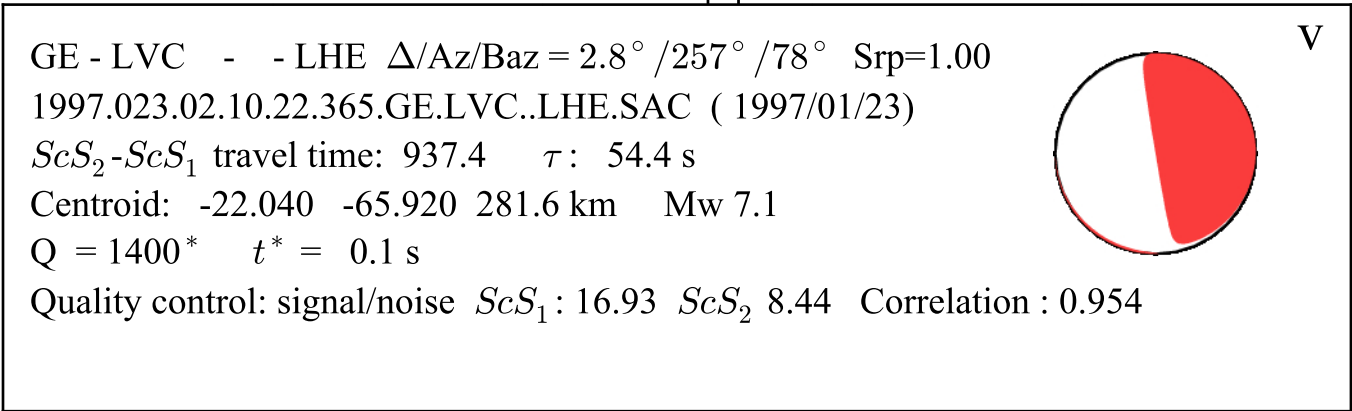




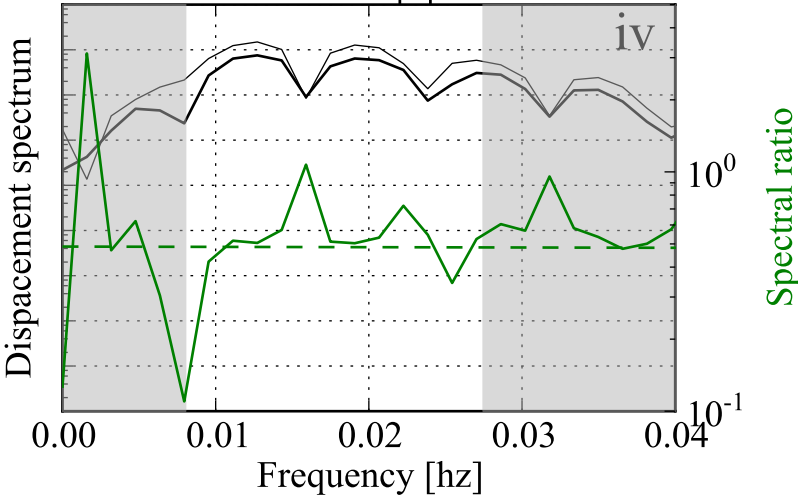


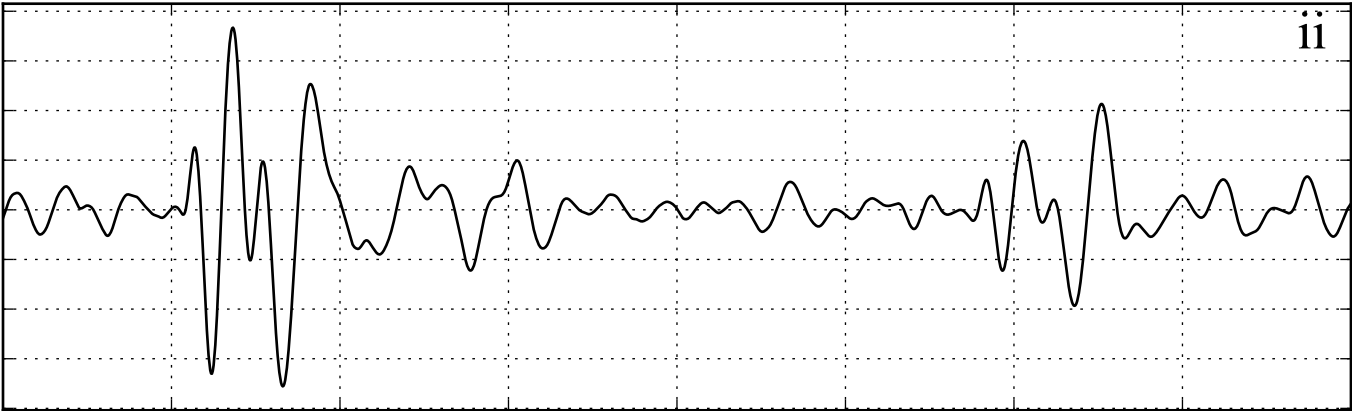
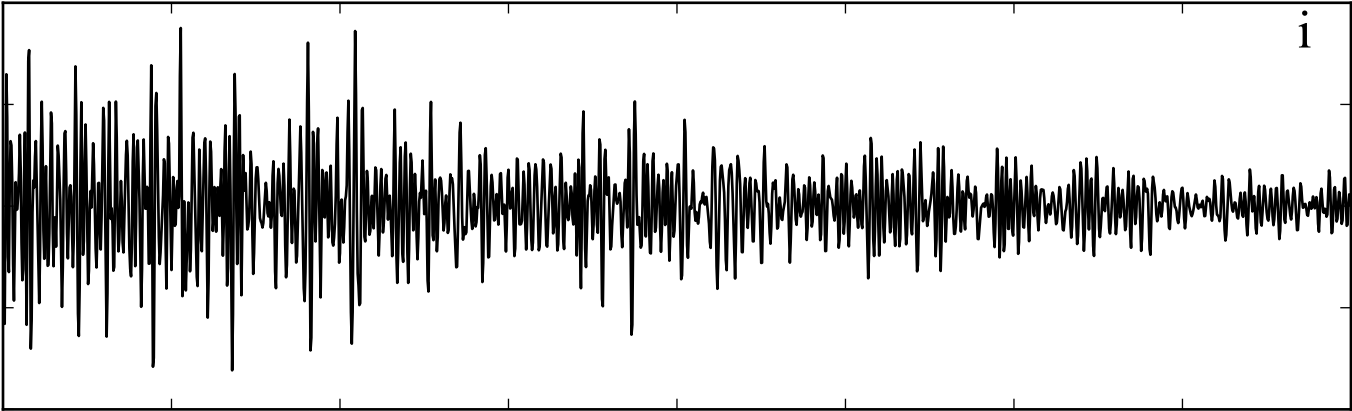


Time [s]

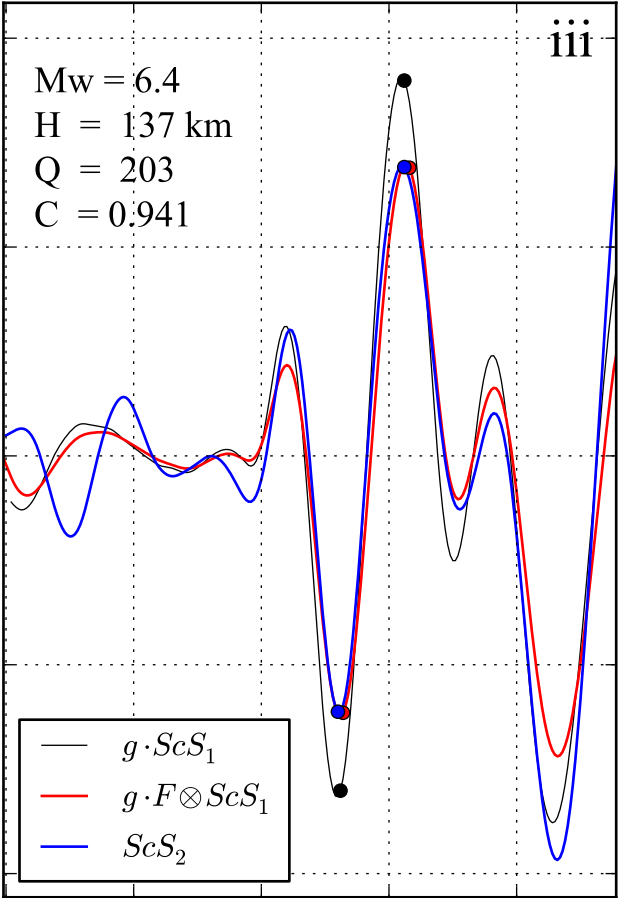
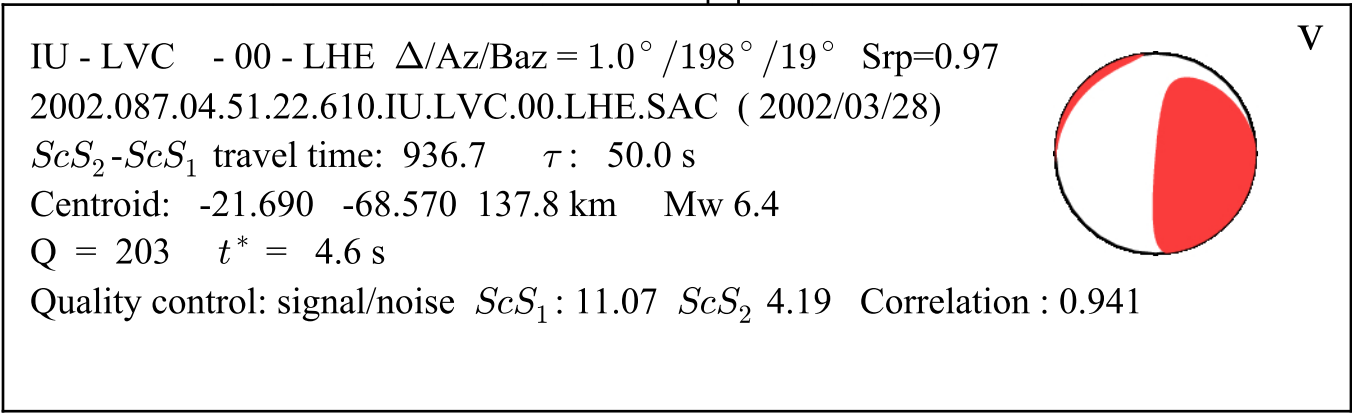


Time [s]

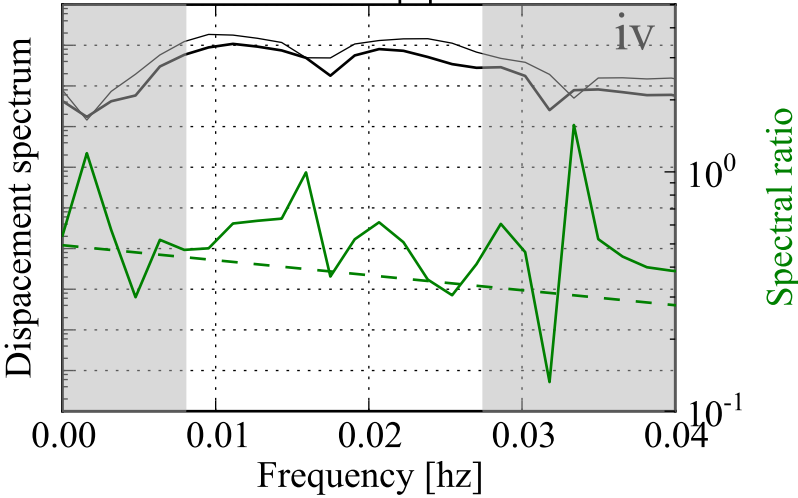


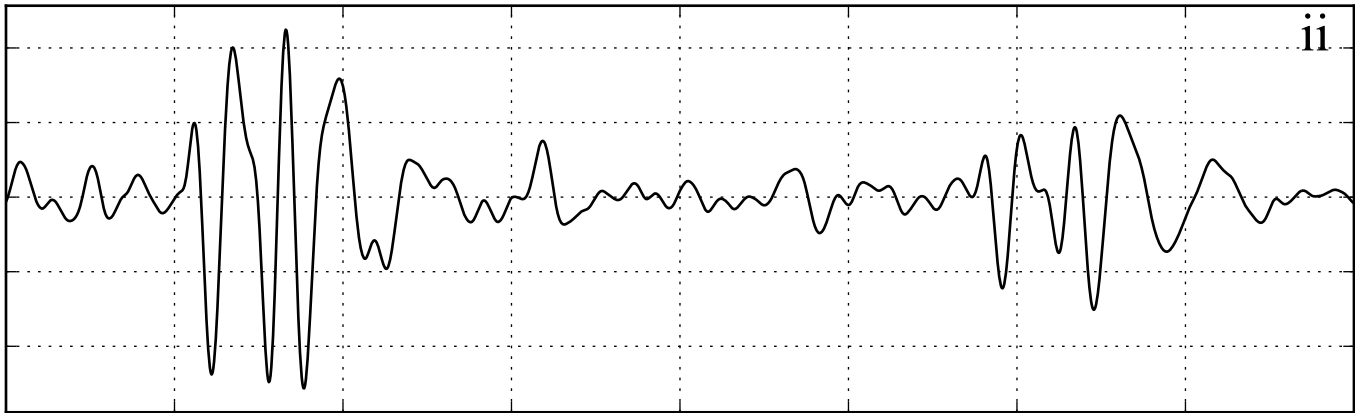
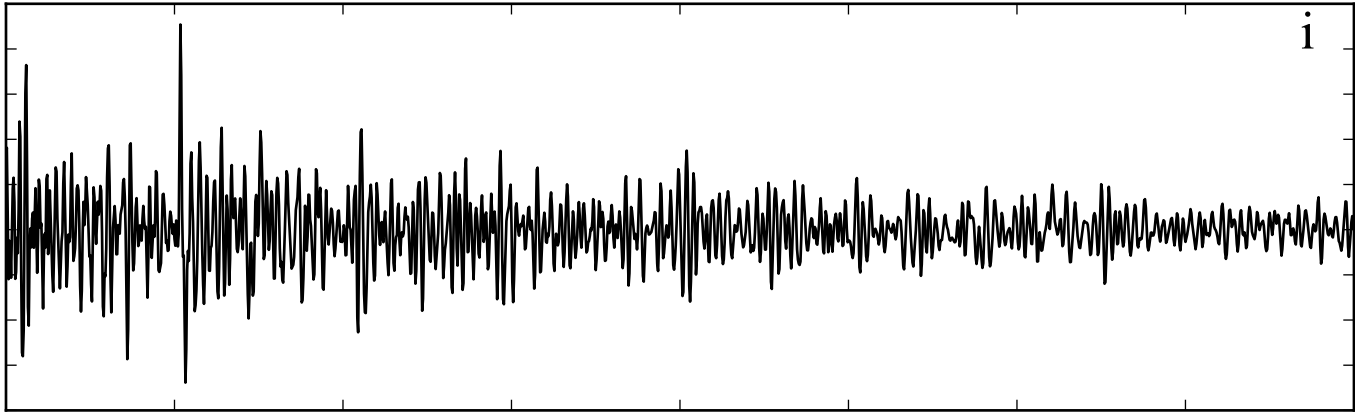


Time [s]

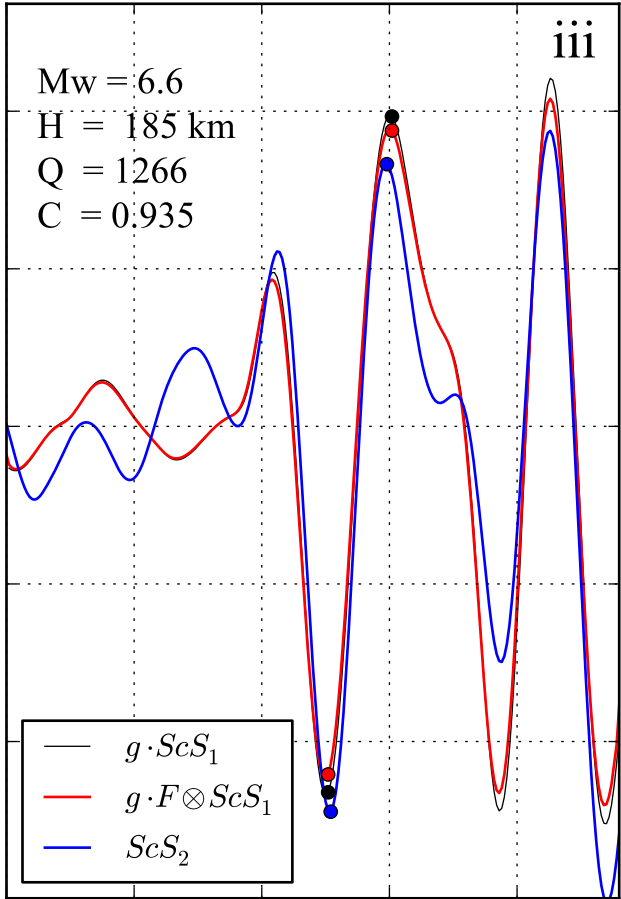
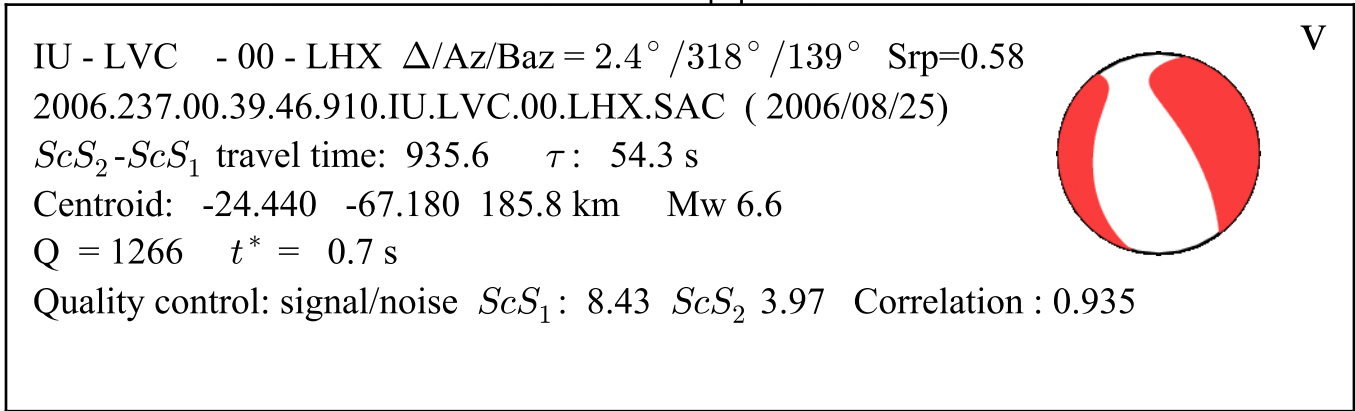


Time [s]

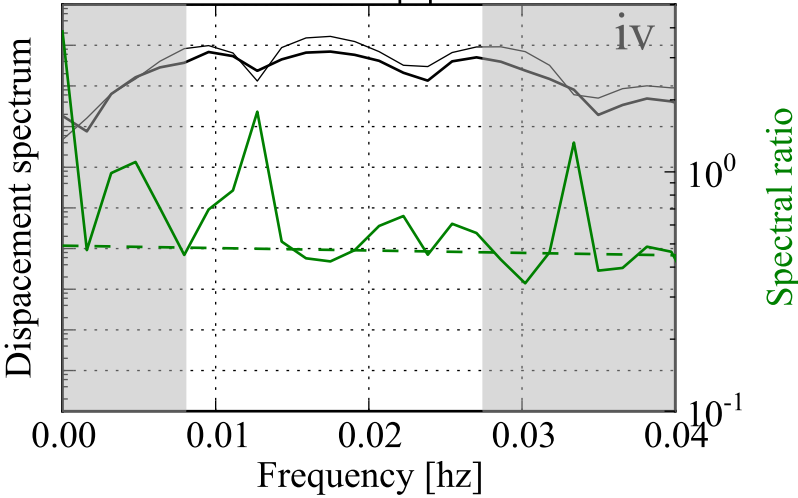


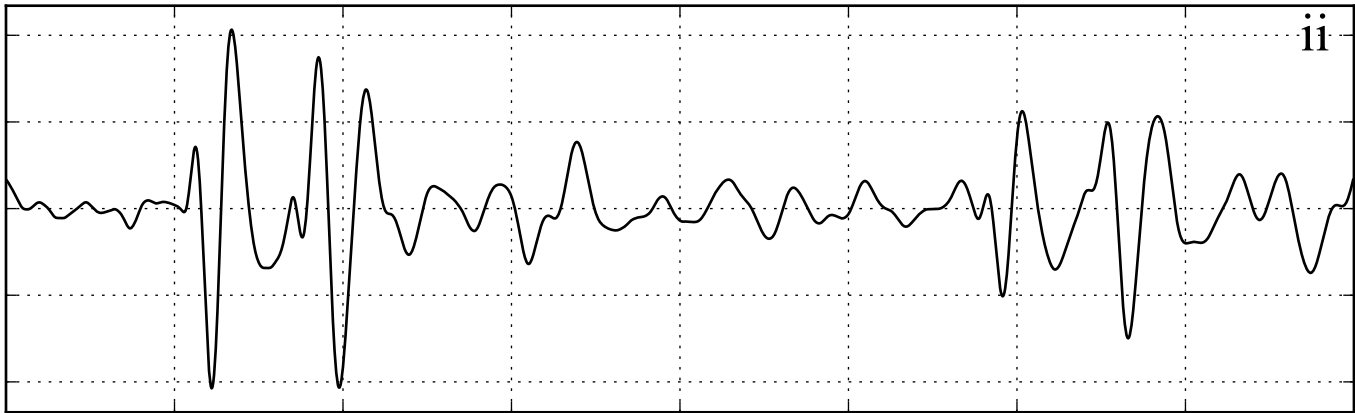
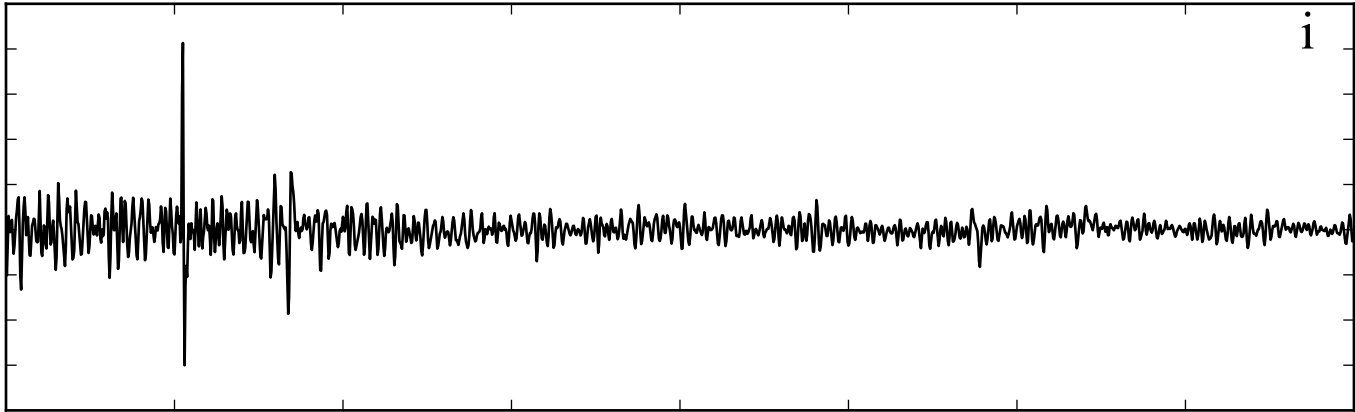


Time [s]

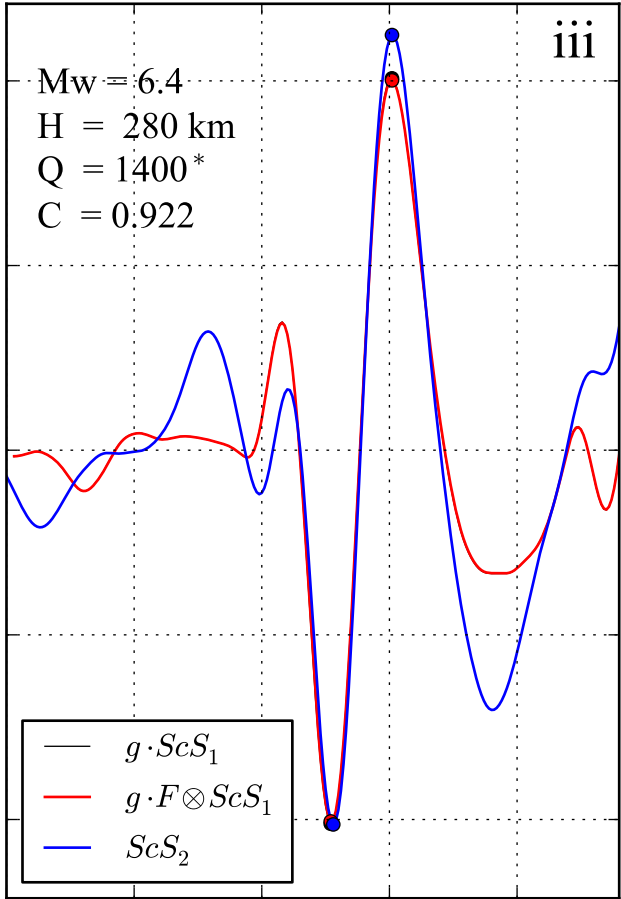
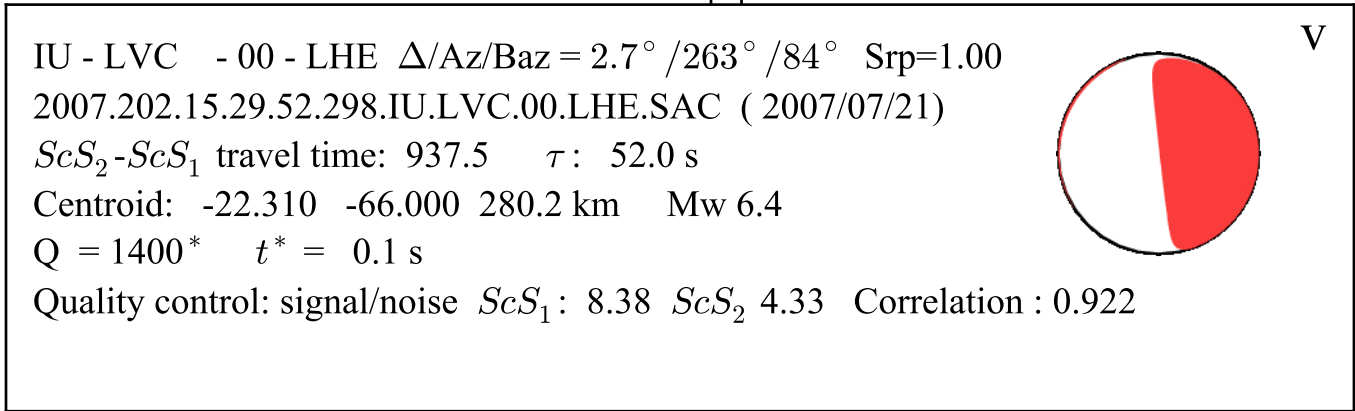


Time [s]

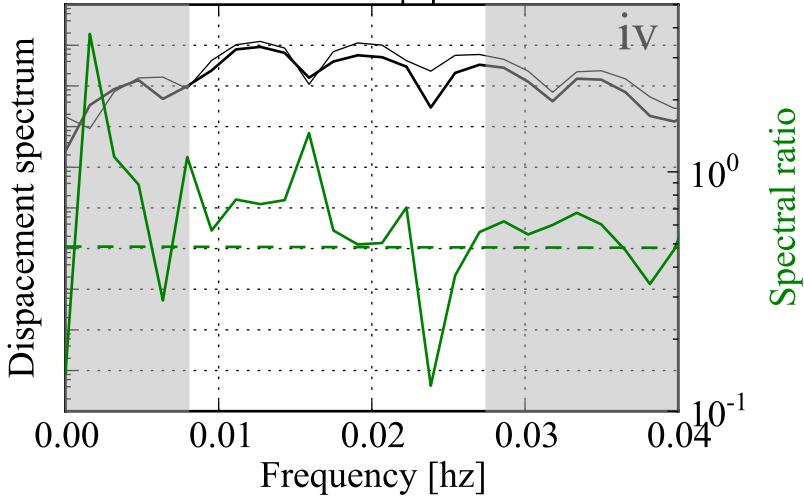


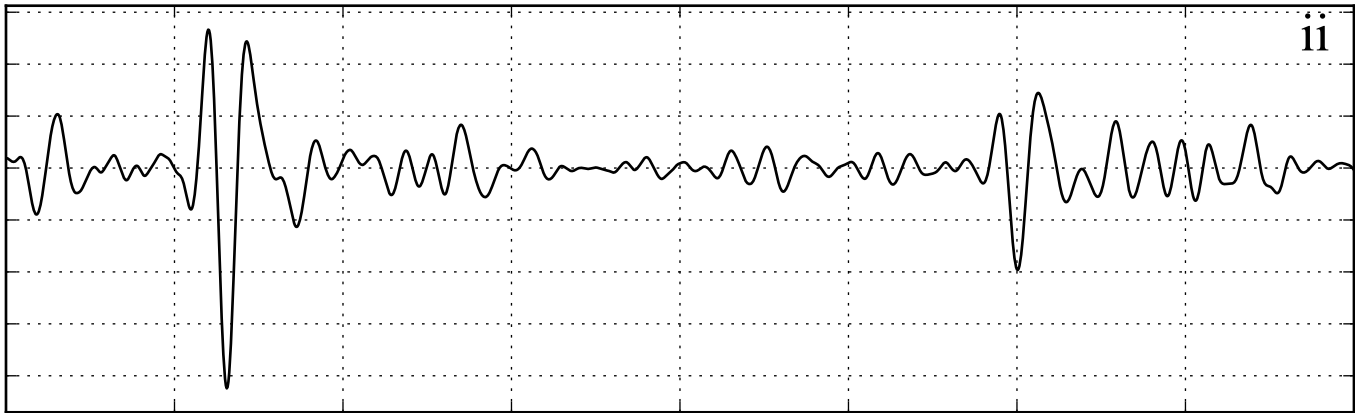
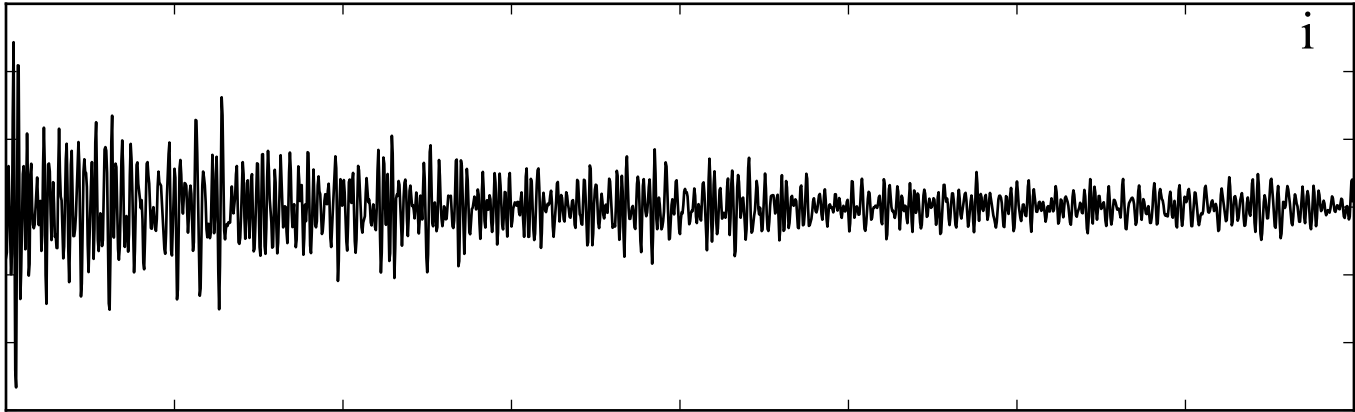


Time [s]

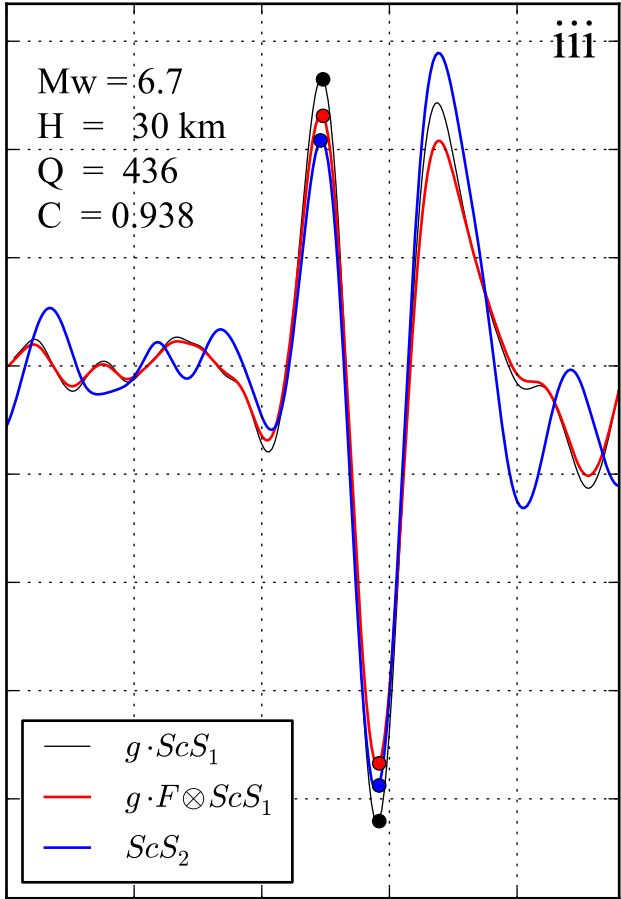
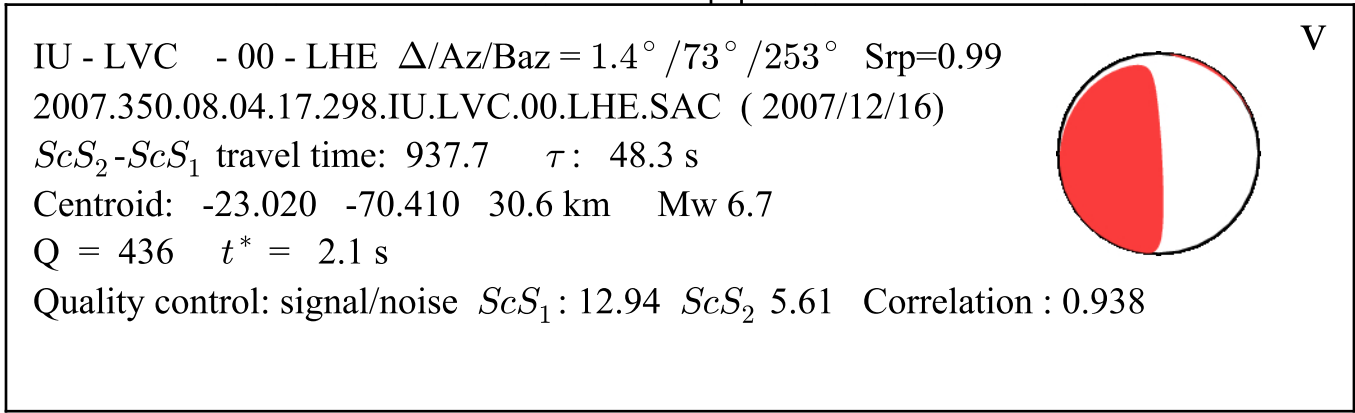


Time [s]

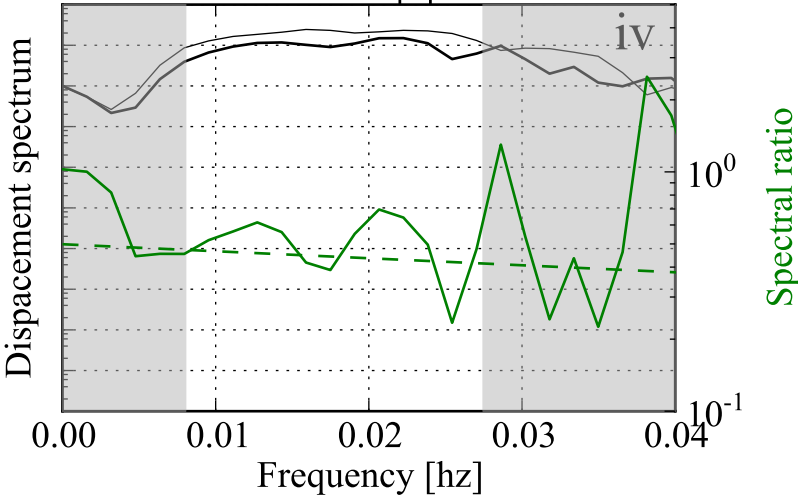


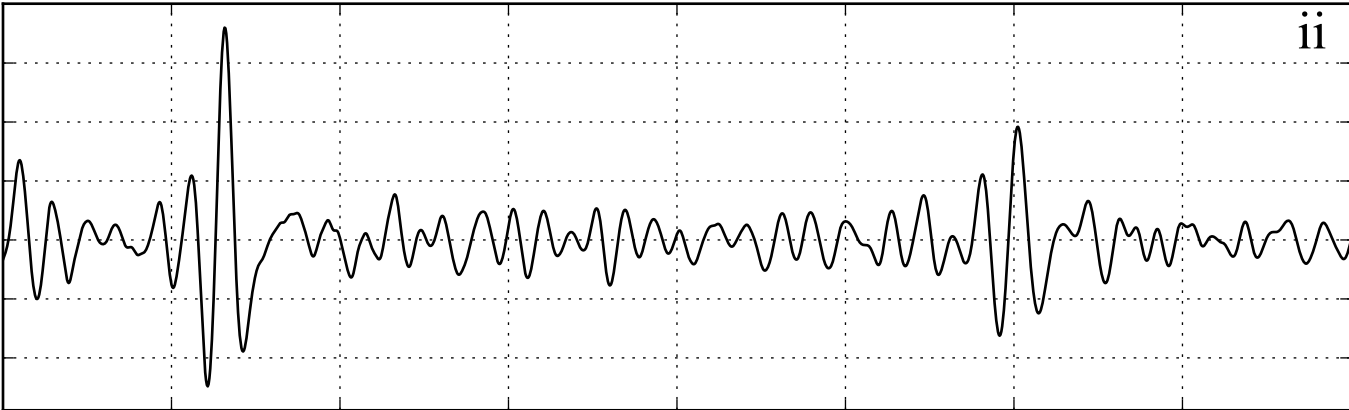
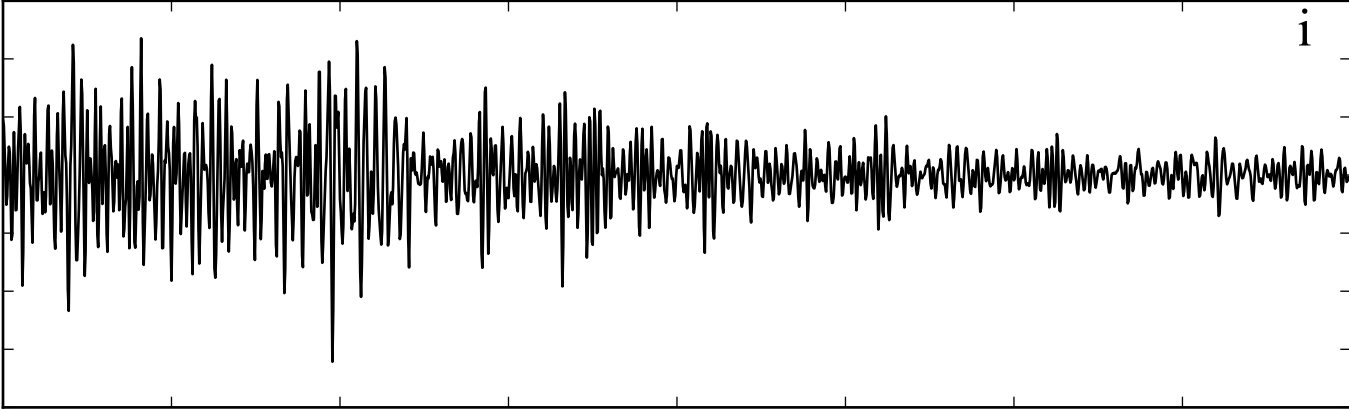


Time [s]



Time [s]





Time [s]

IU - LVC - 00 - LH2 $\Delta/Az/Baz = 3.6^\circ / 147^\circ / 326^\circ$ Srp=0.68

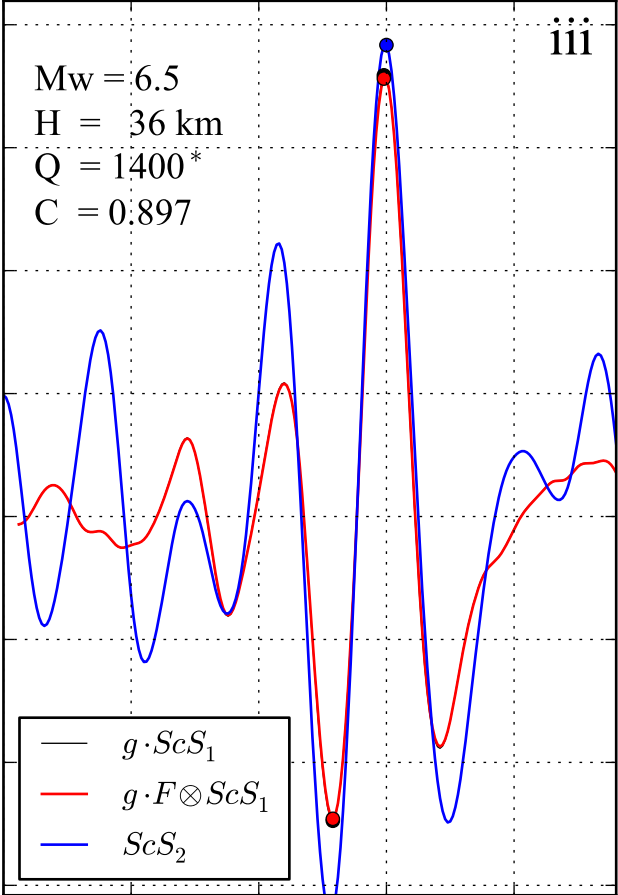
2009.317.03.00.57.069.IU.LVC.00.LH2.SAC (2009/11/13)

ScS_2 - ScS_1 travel time: 940.2 τ : 43.9 s

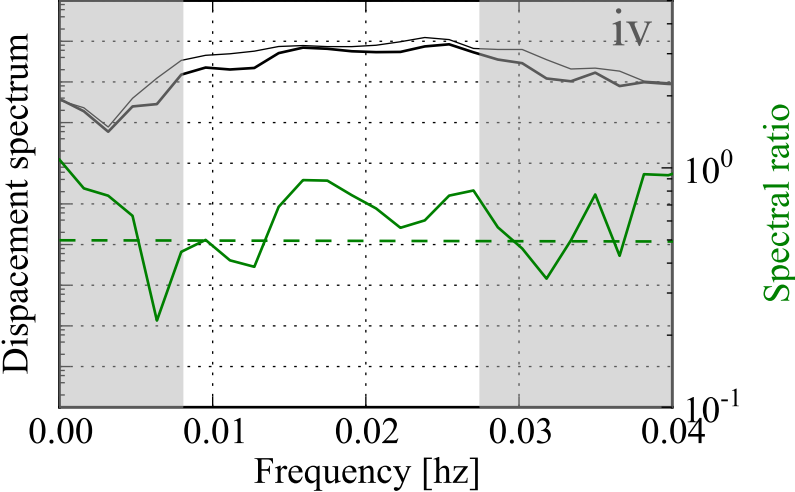
Centroid: -19.600 -71.010 36.2 km Mw 6.5

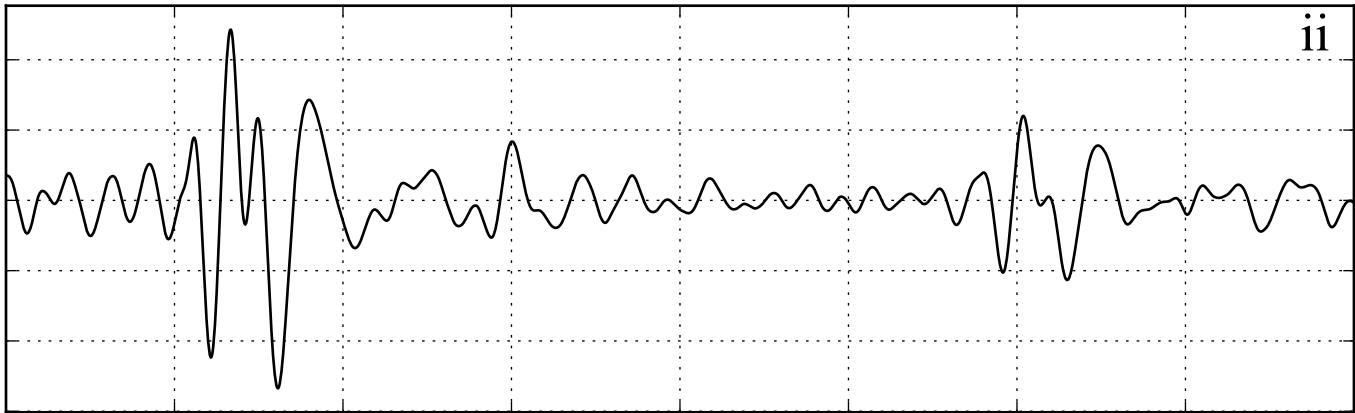
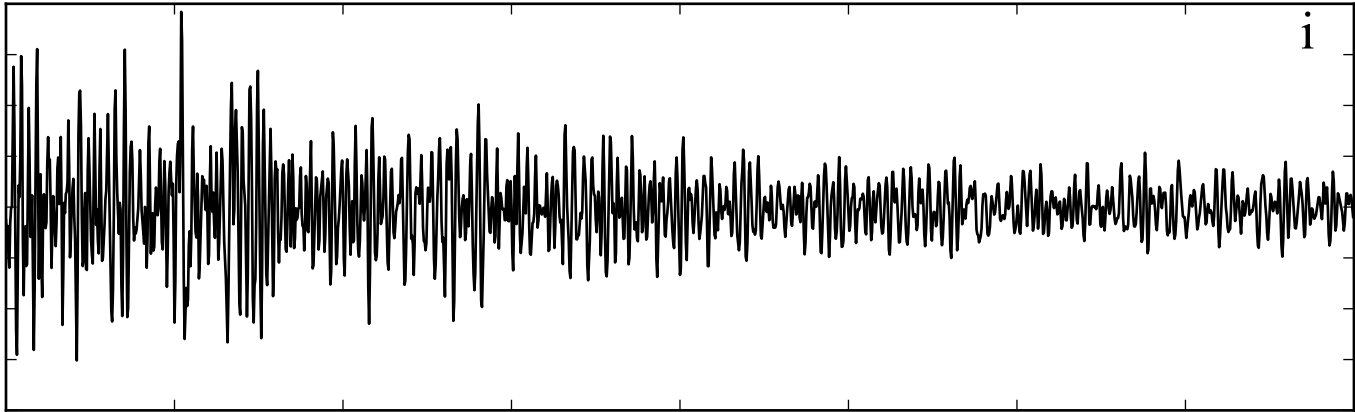
$Q = 1400^*$ $t^* = 0.1$ s

Quality control: signal/noise ScS_1 : 7.18 ScS_2 4.18 Correlation : 0.897

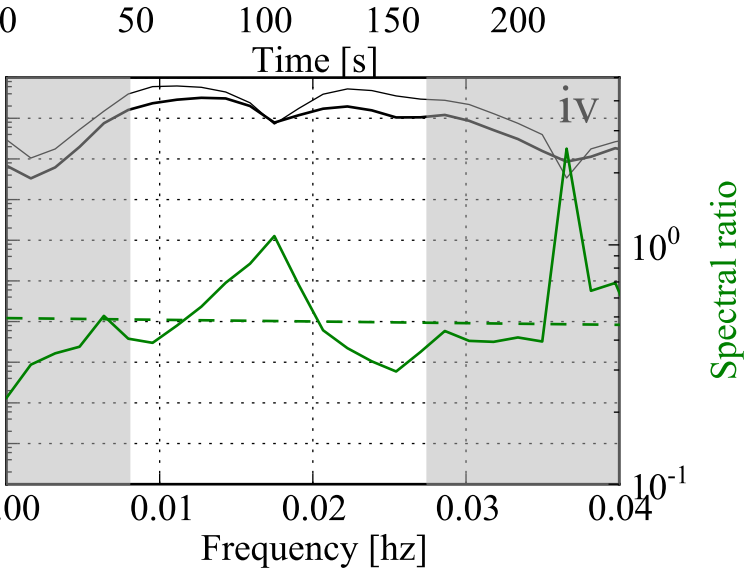
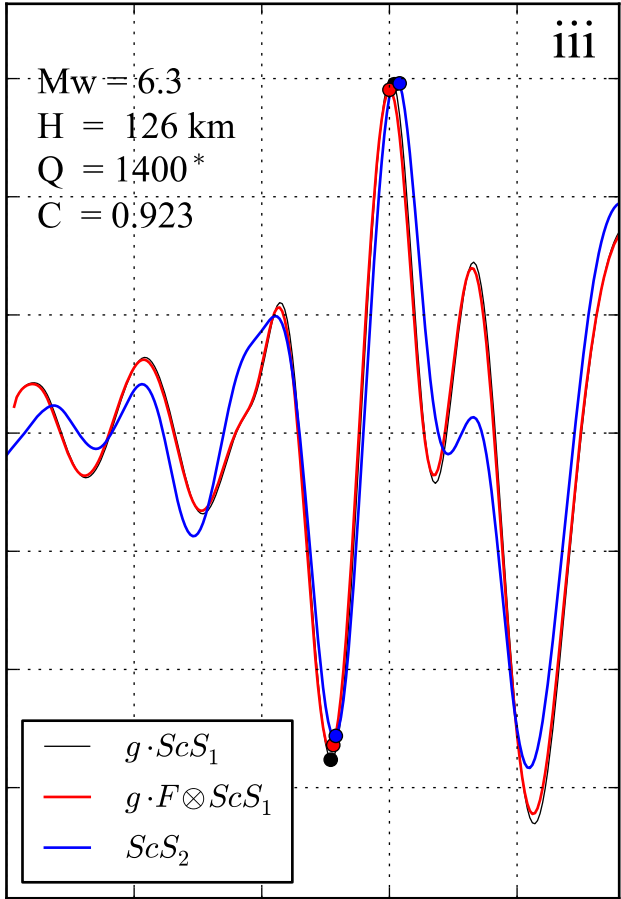
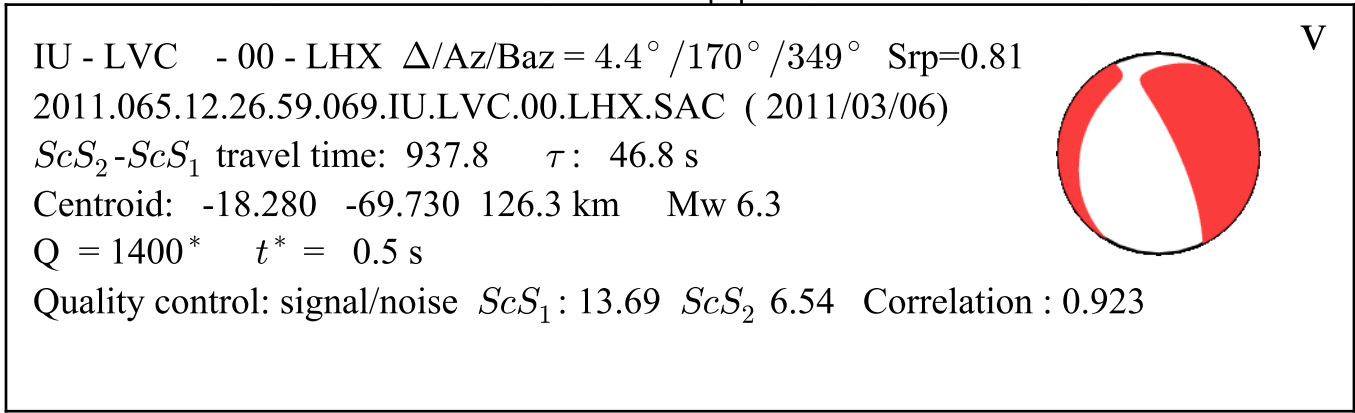


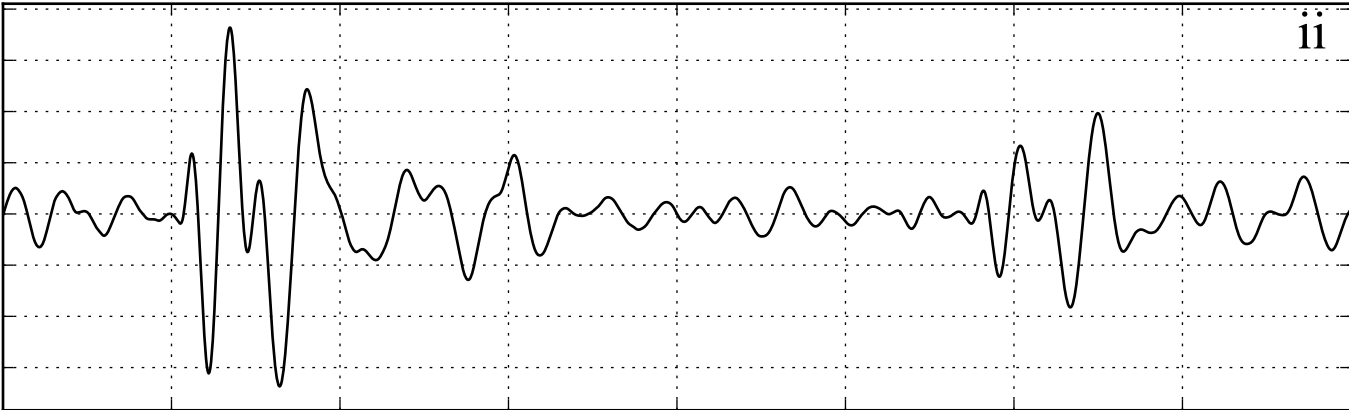
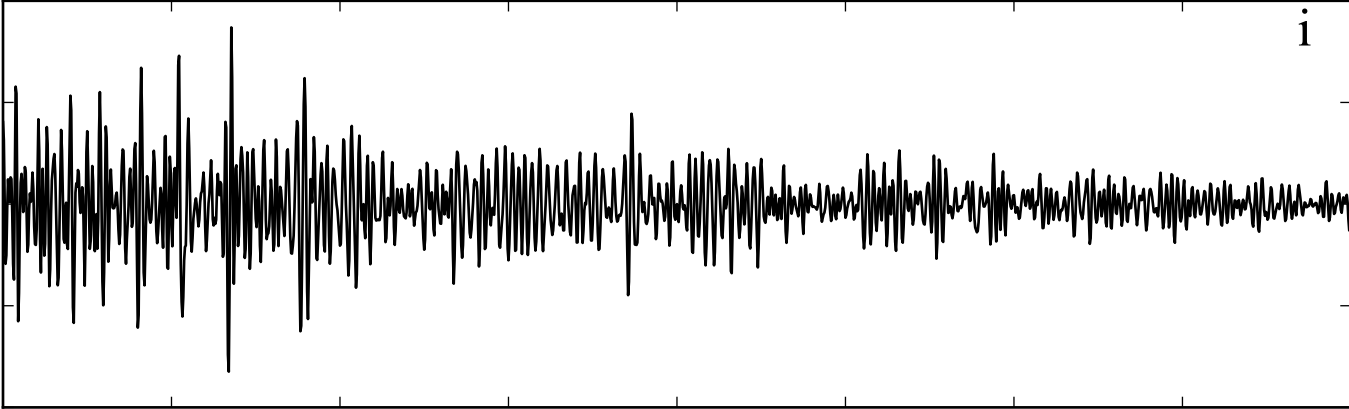
Time [s]



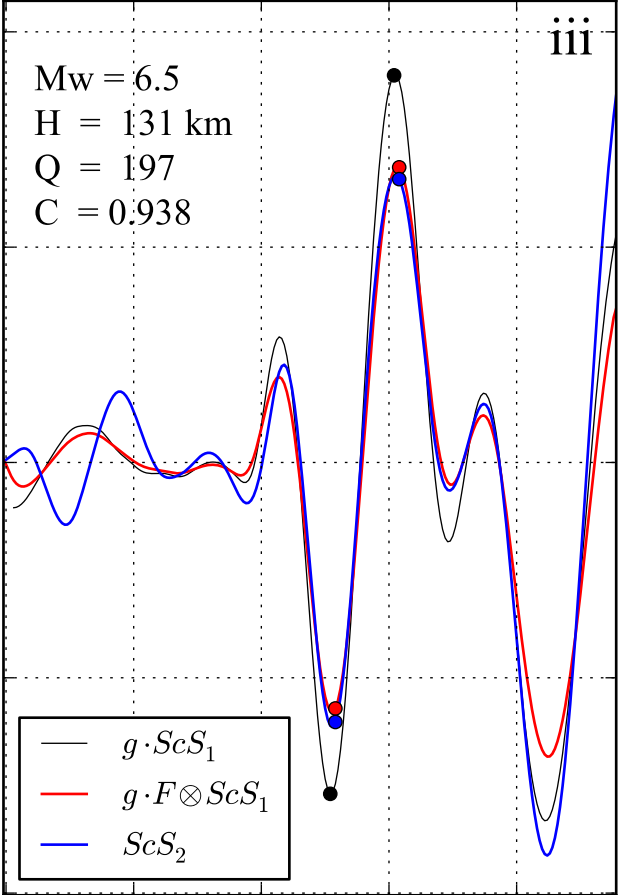
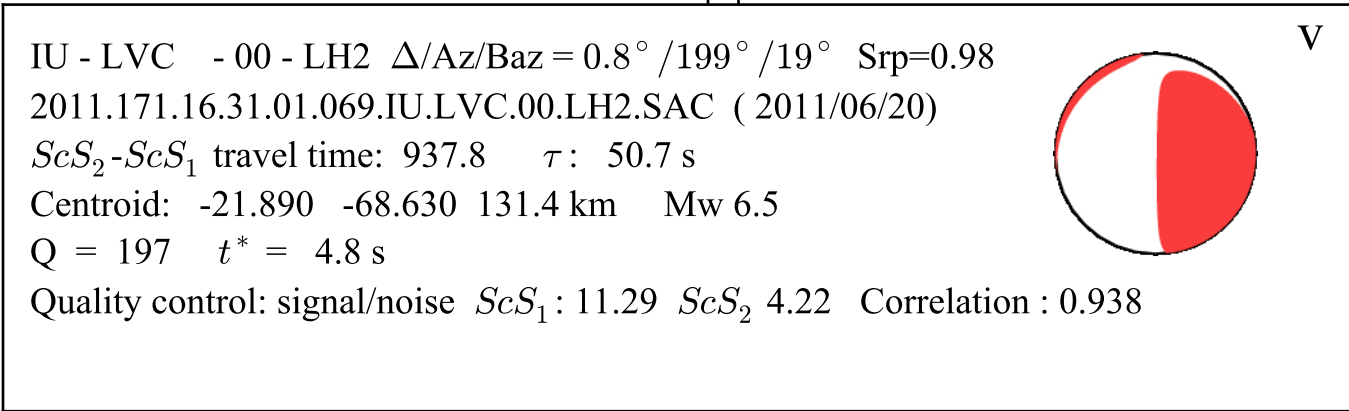


Time [s]

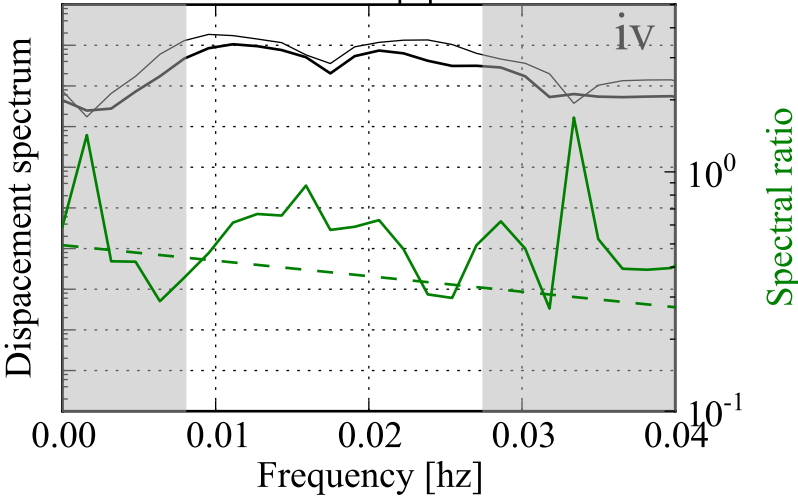


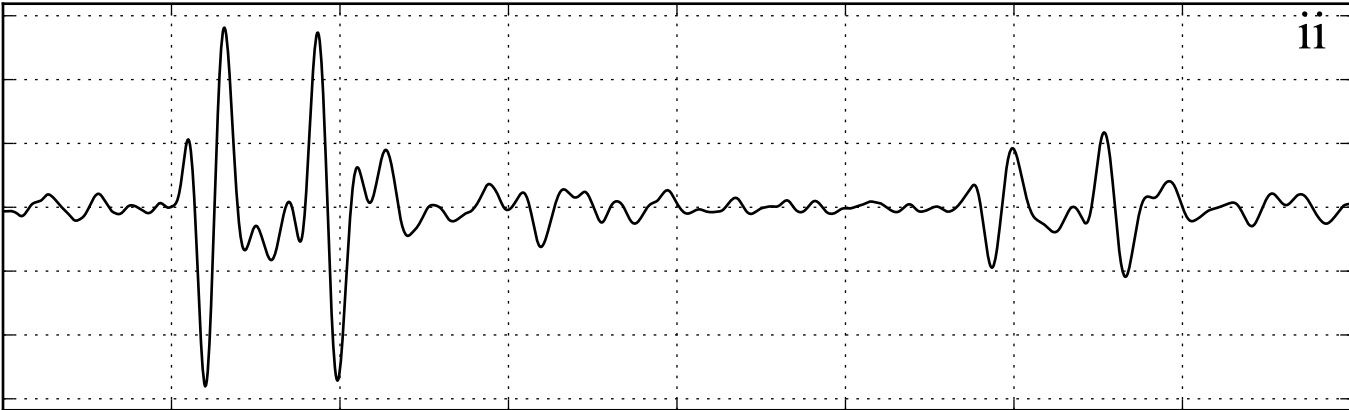
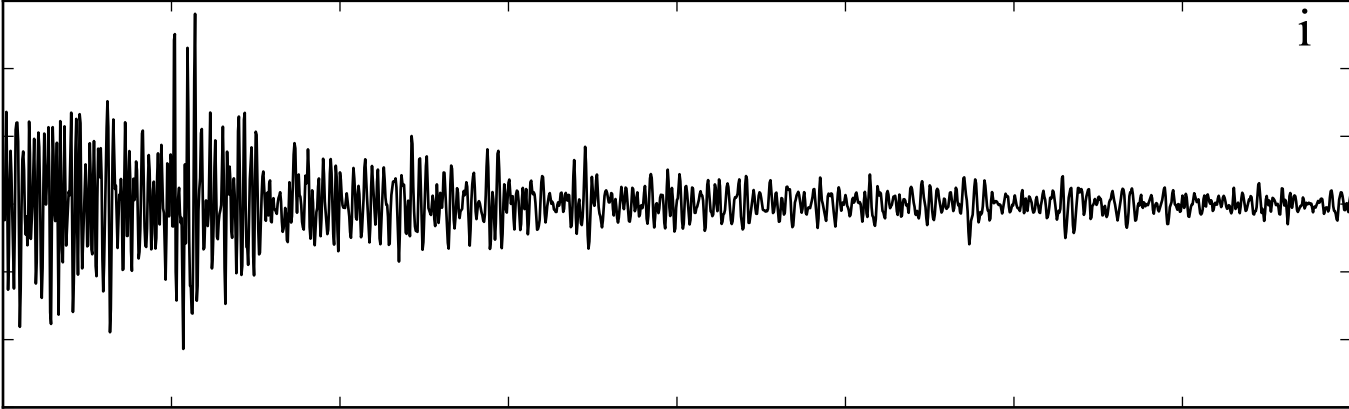


Time [s]

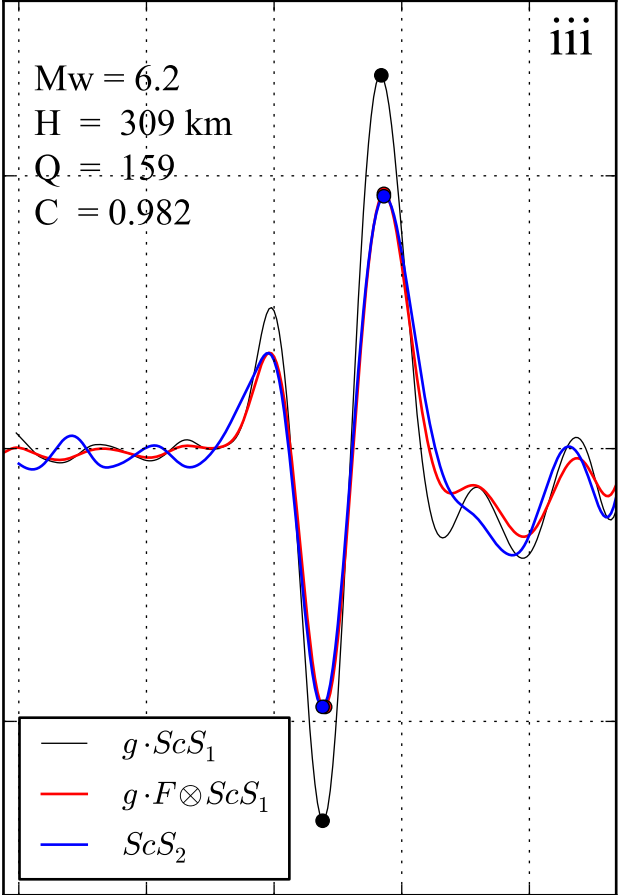
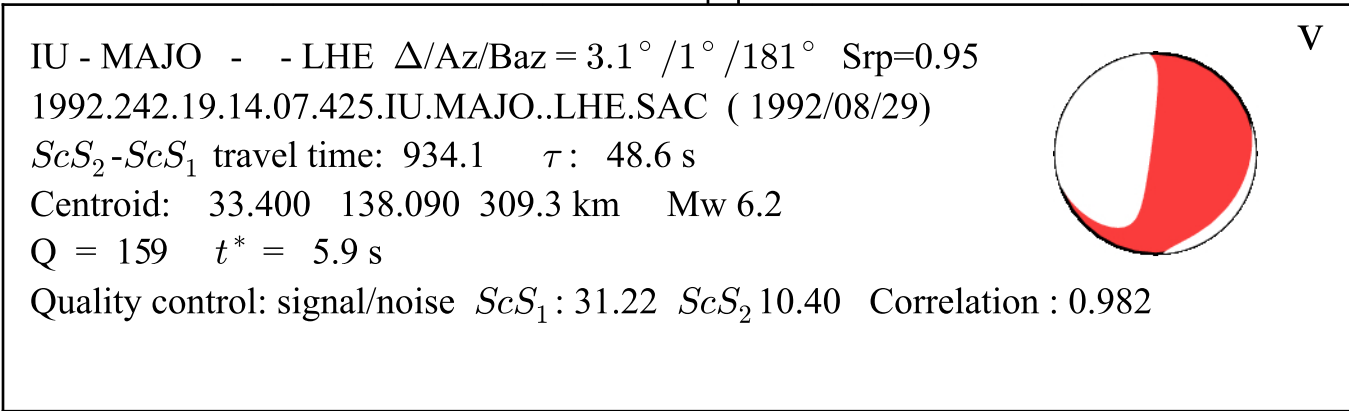


Time [s]

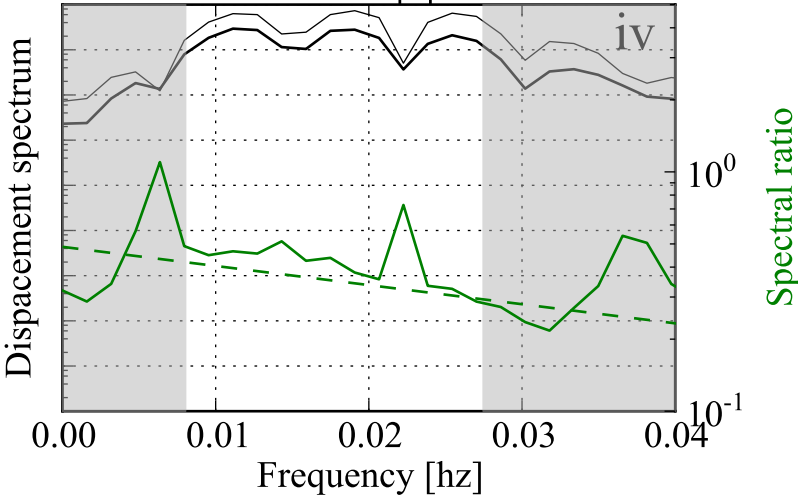


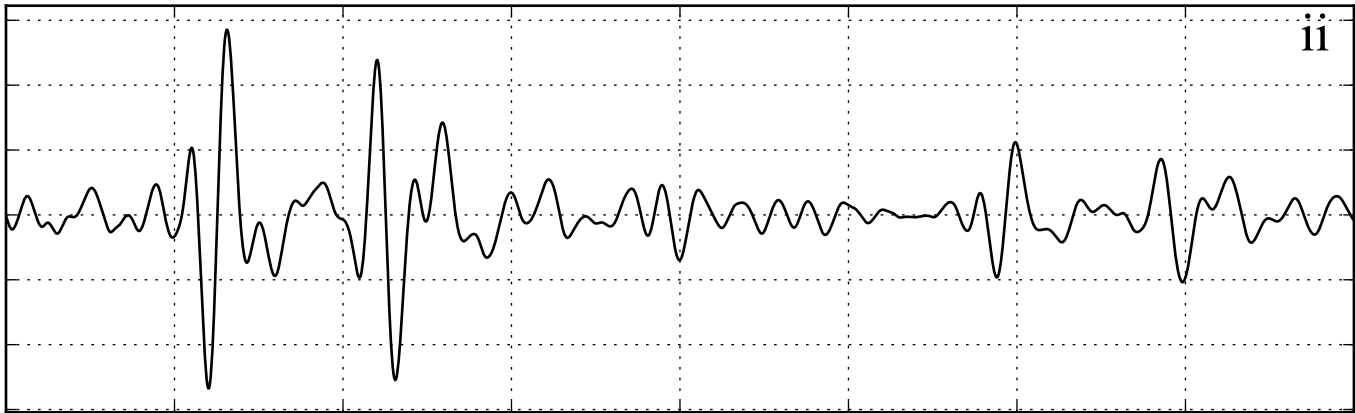
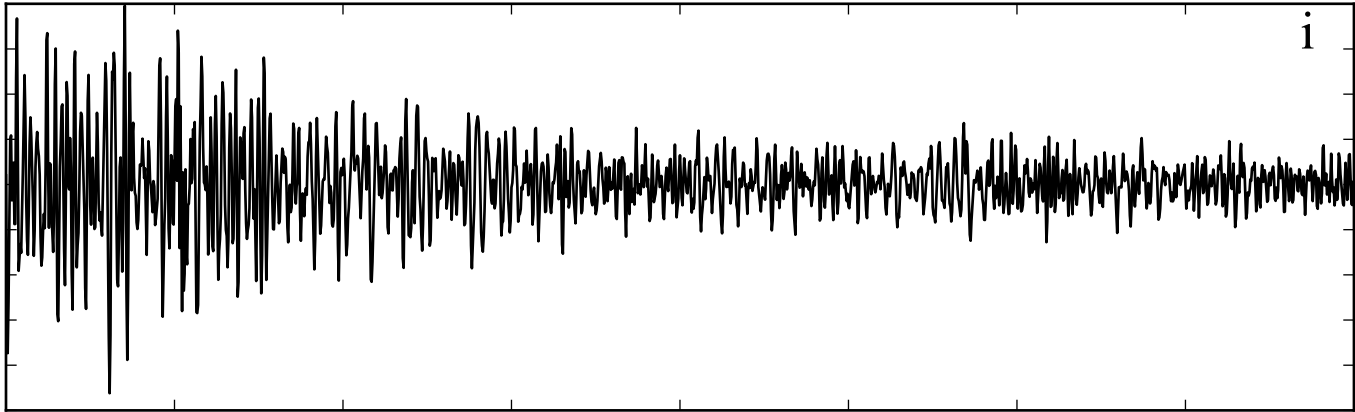


Time [s]

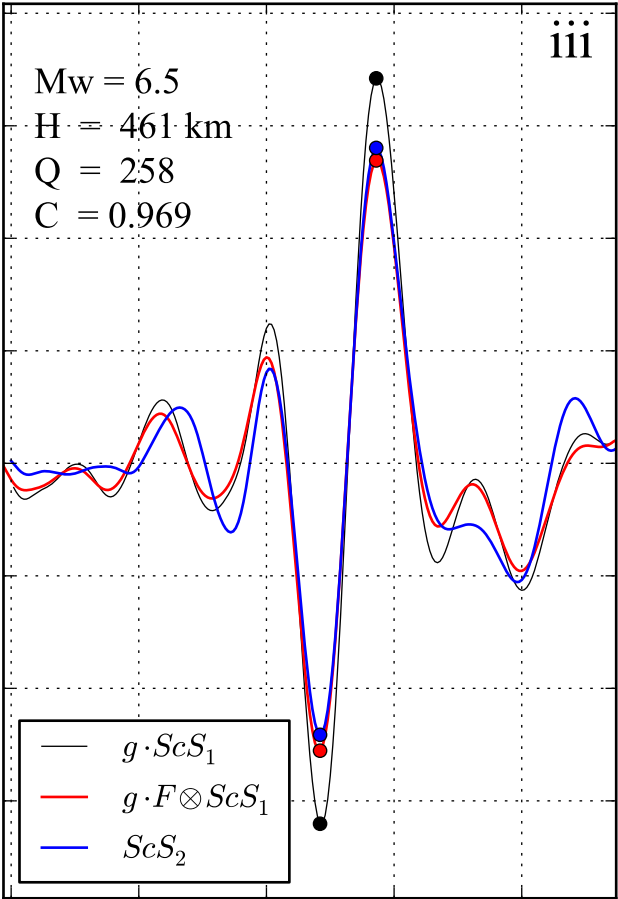
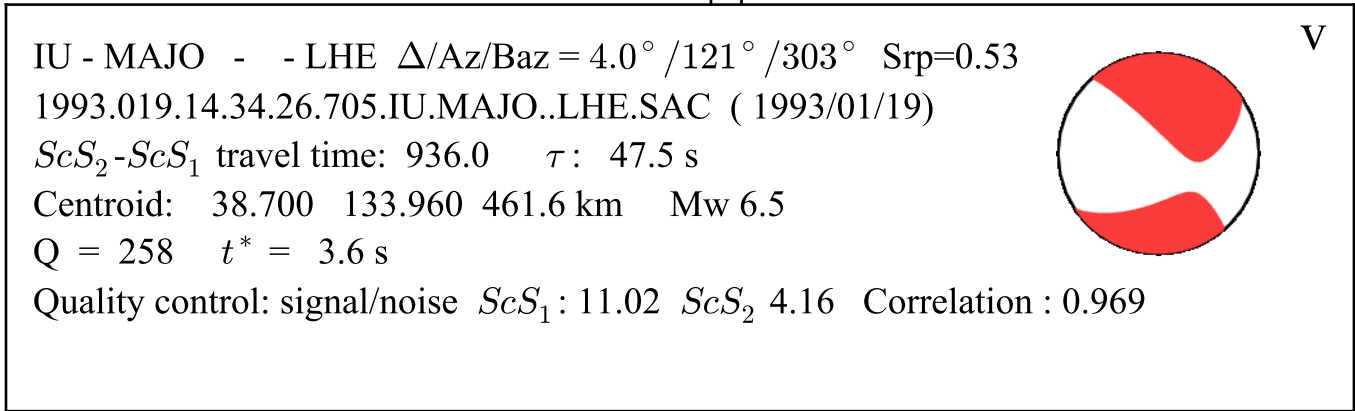


Time [s]

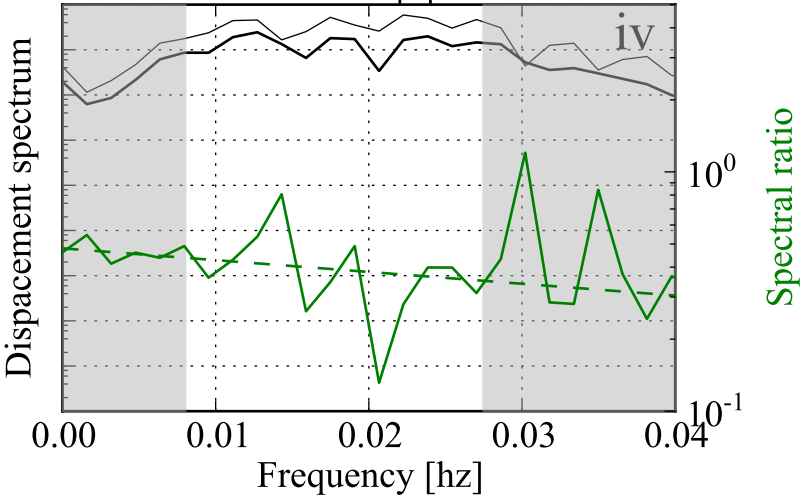


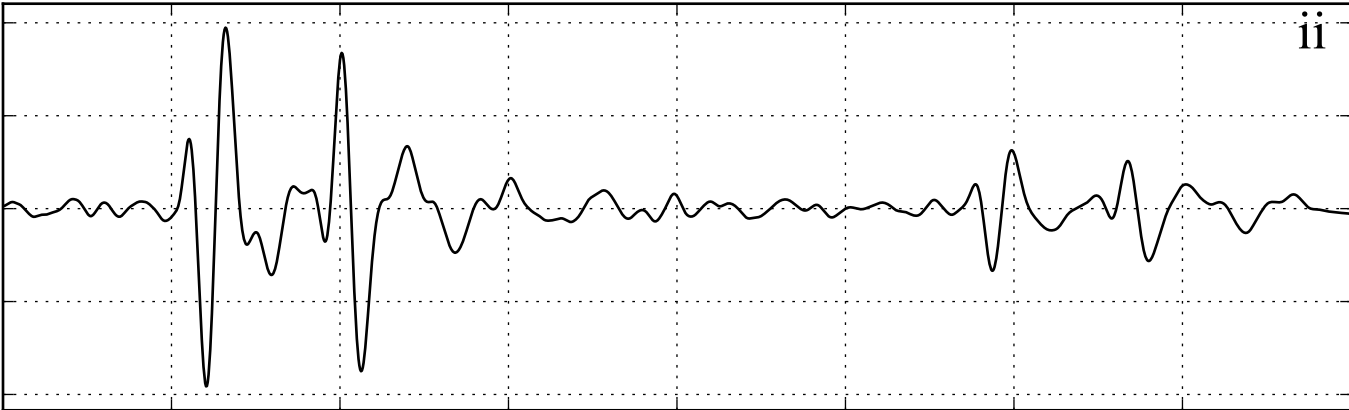
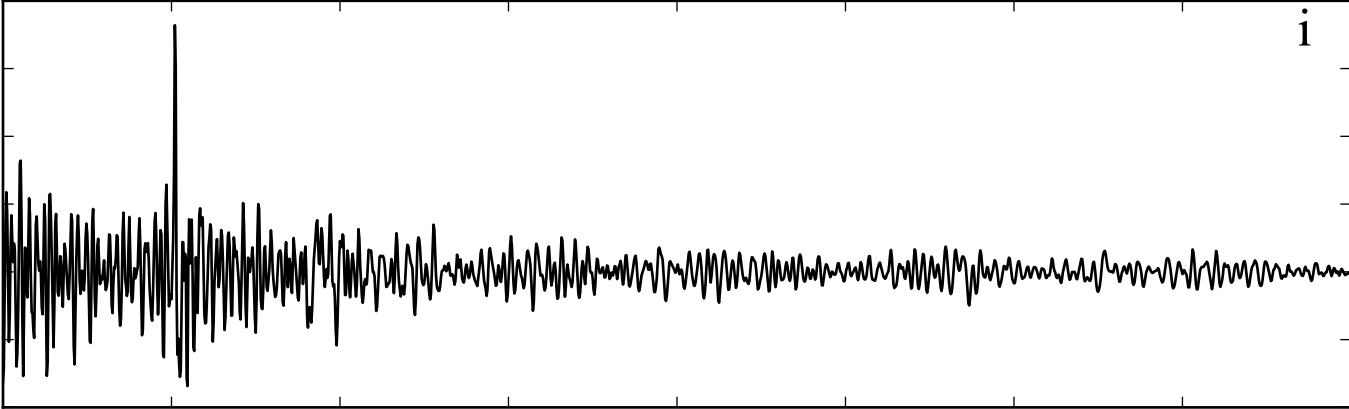


Time [s]

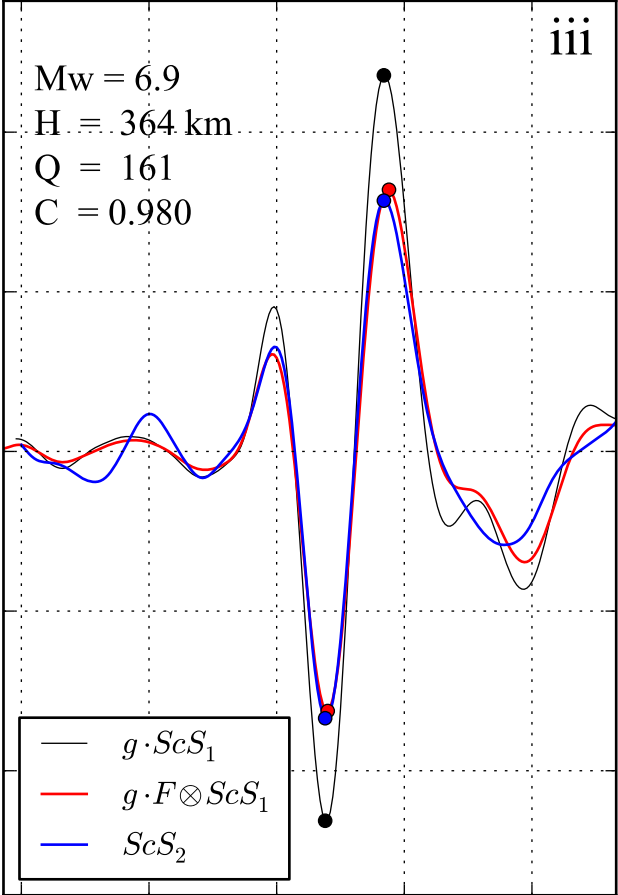
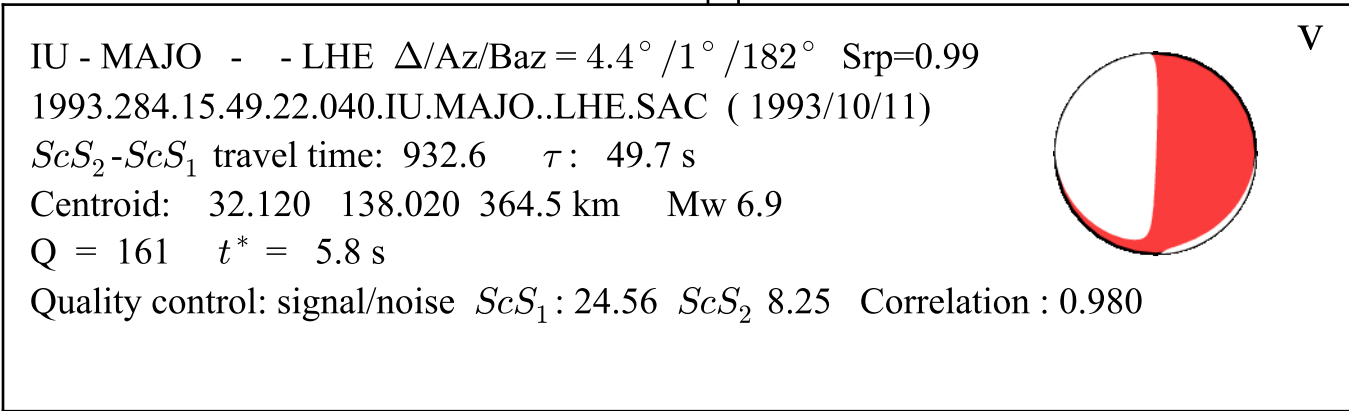


Time [s]

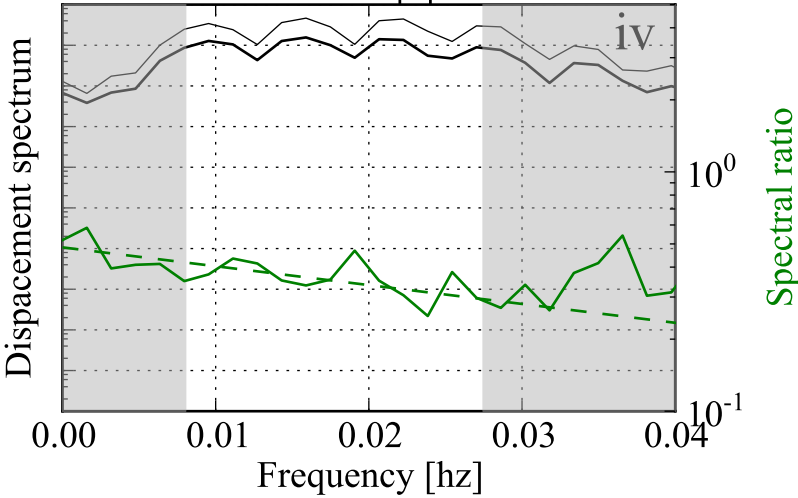


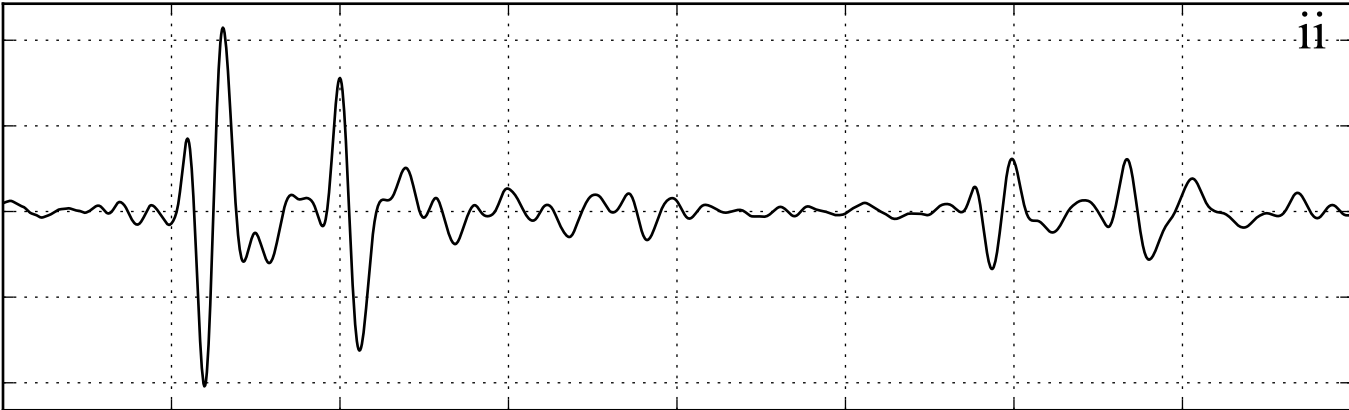
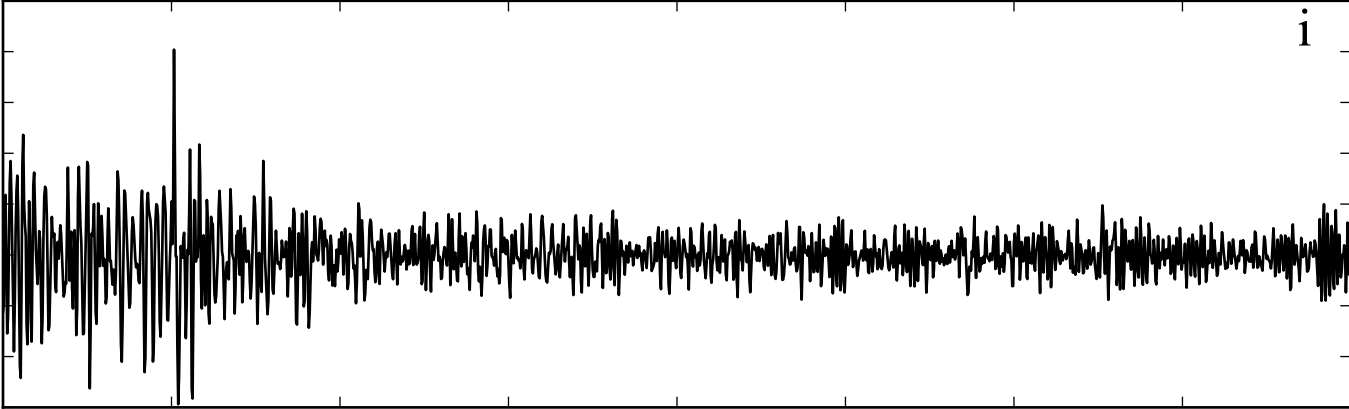


Time [s]

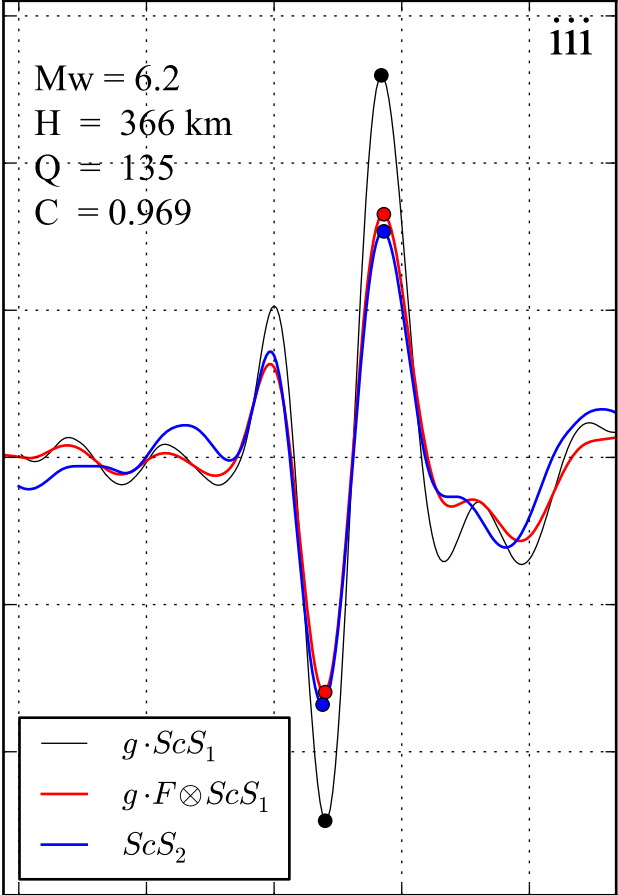
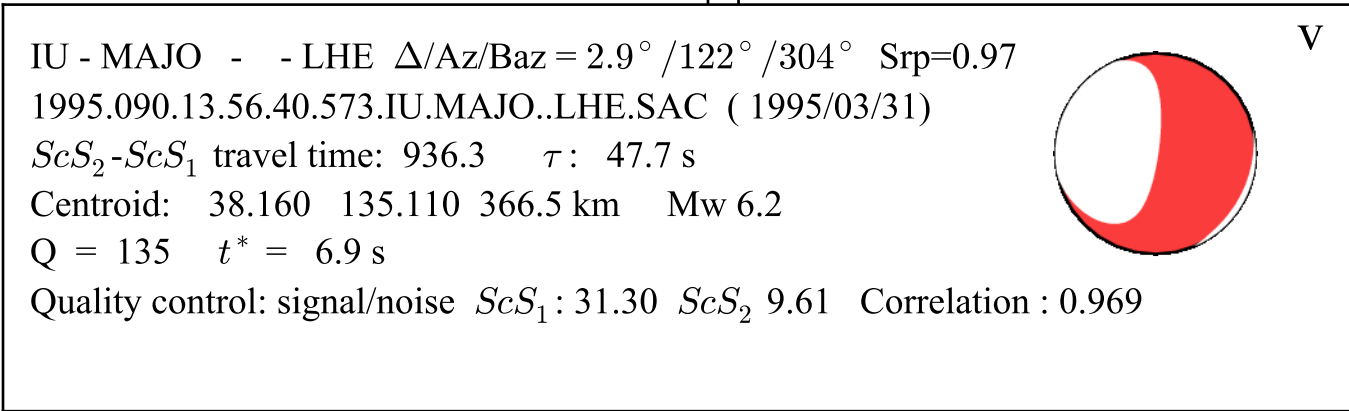


Time [s]

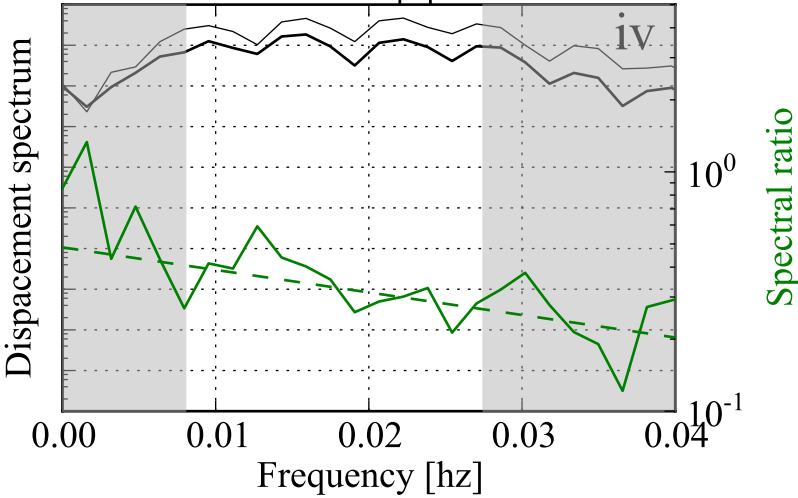


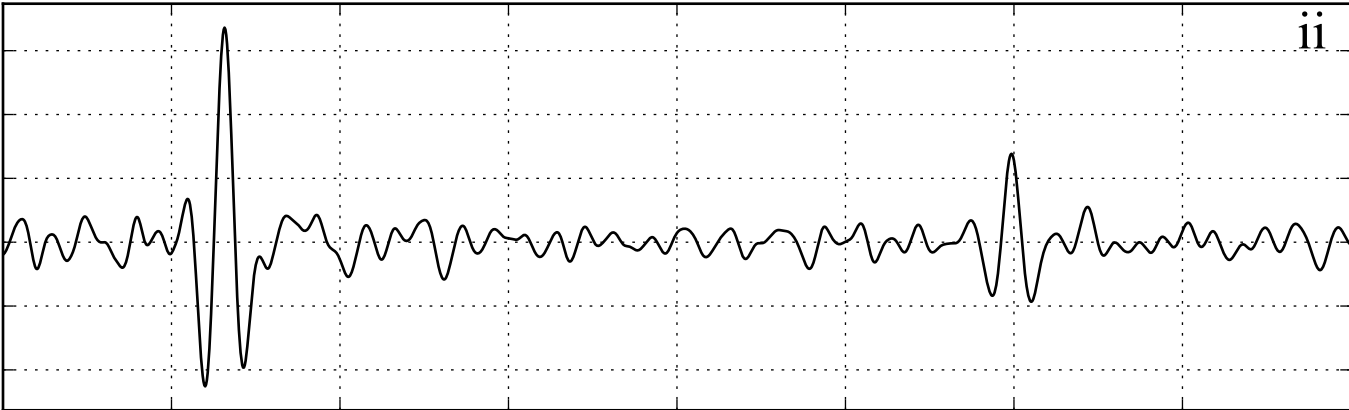
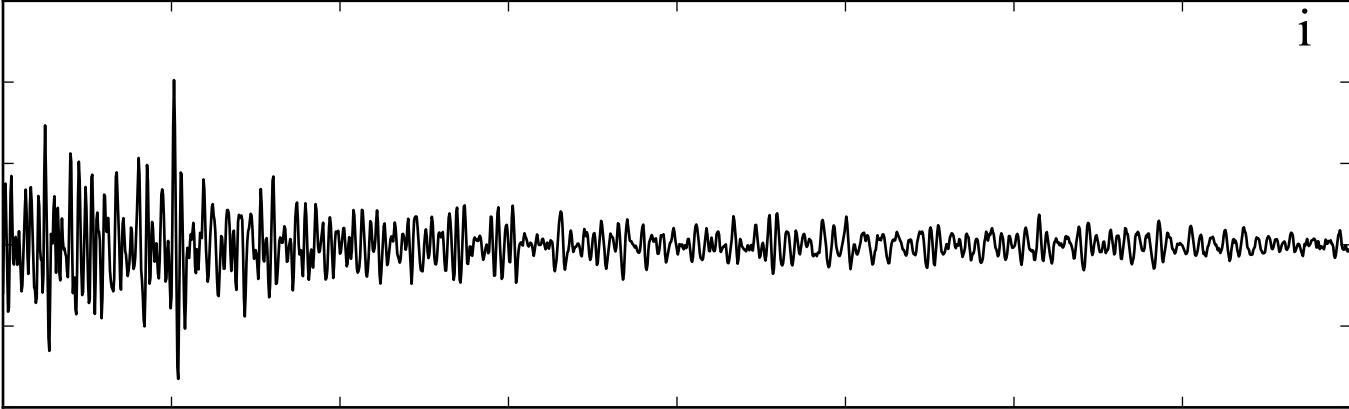


Time [s]

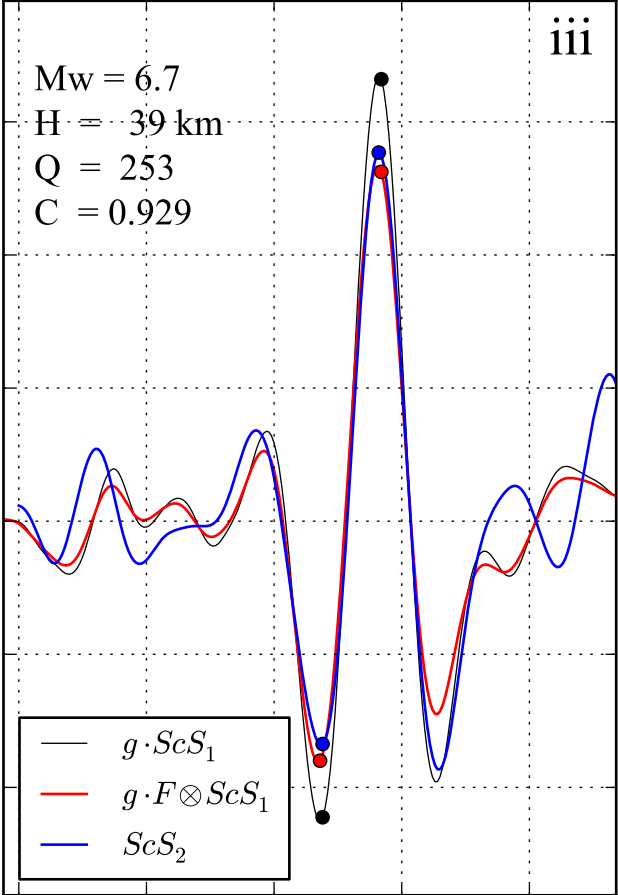
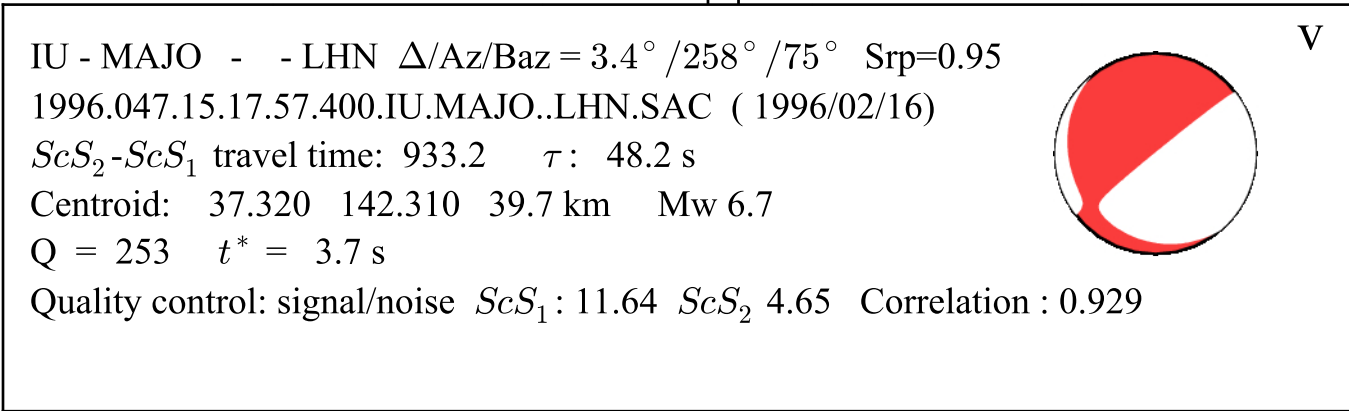


Time [s]

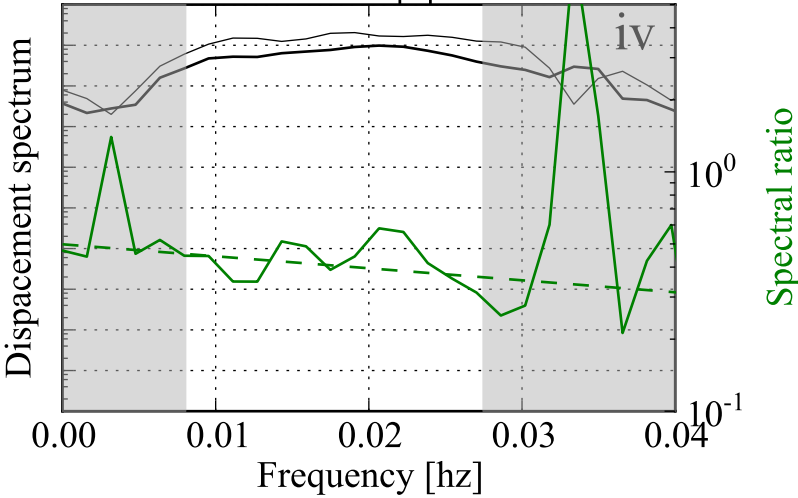


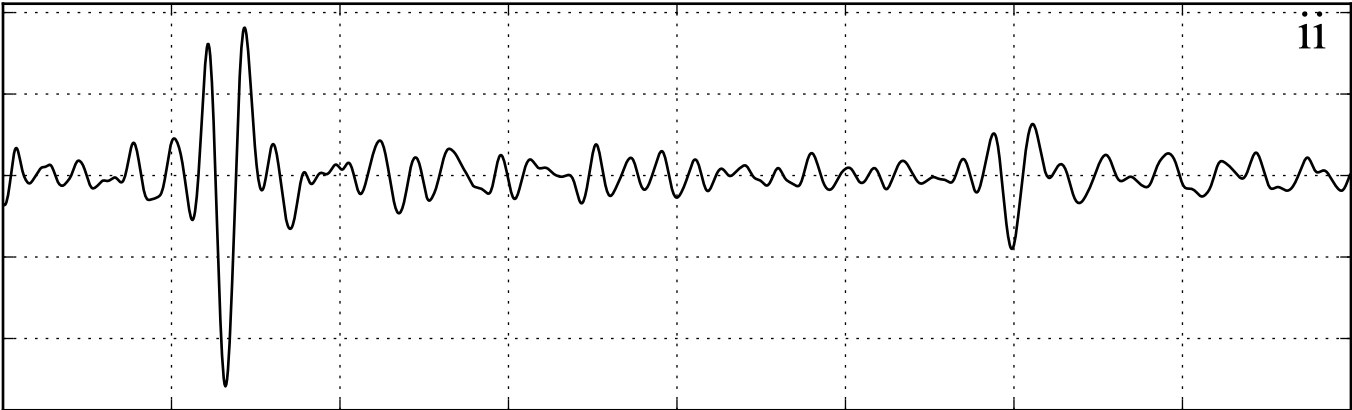
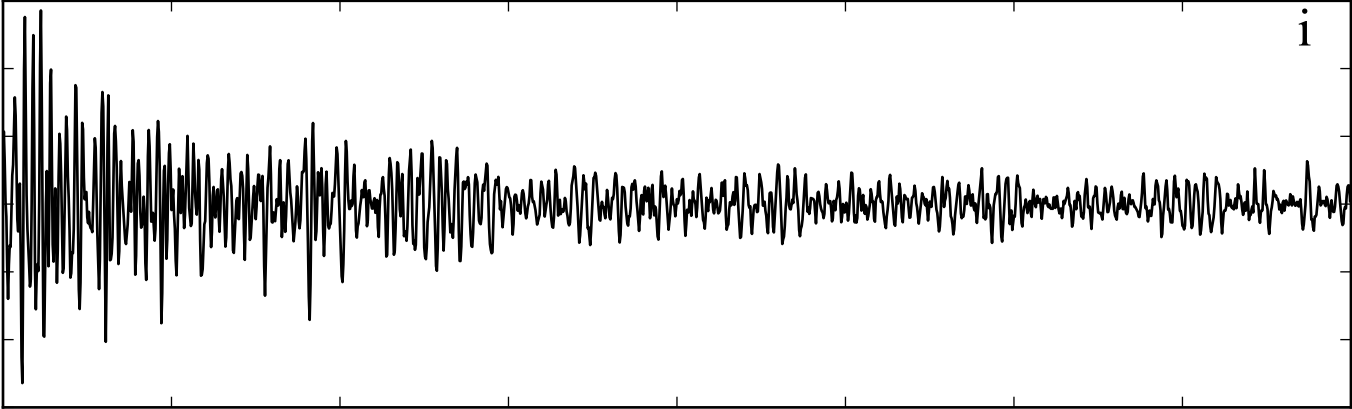


Time [s]

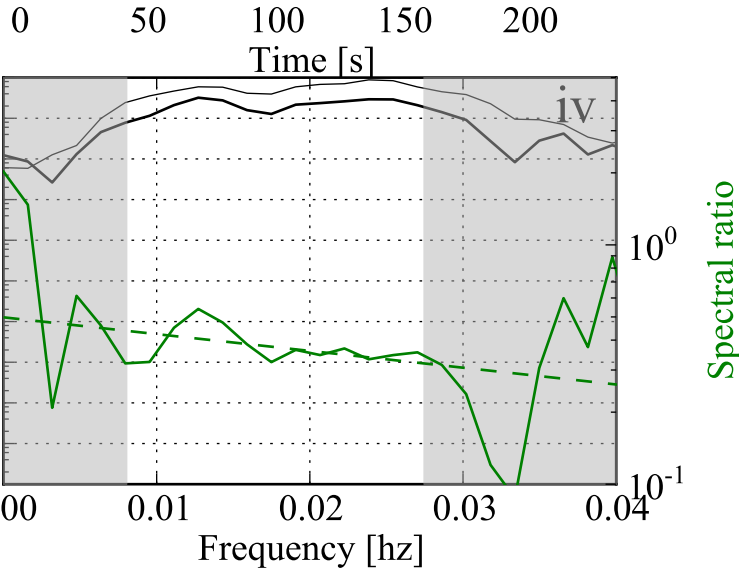
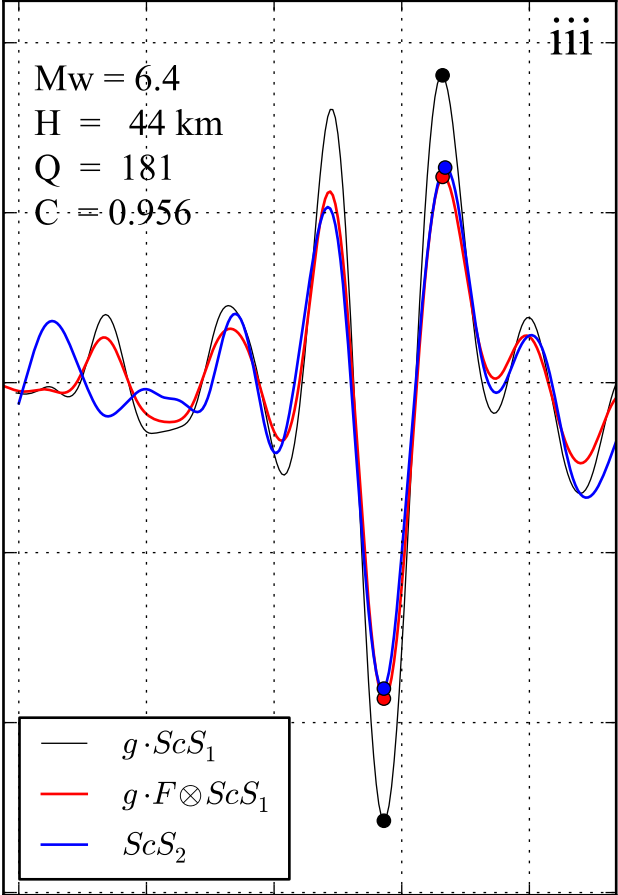
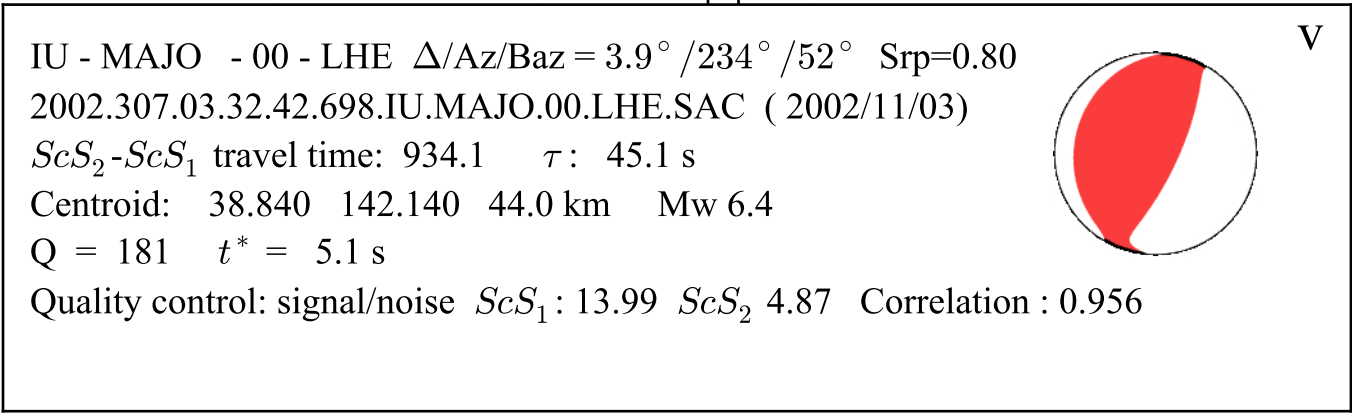


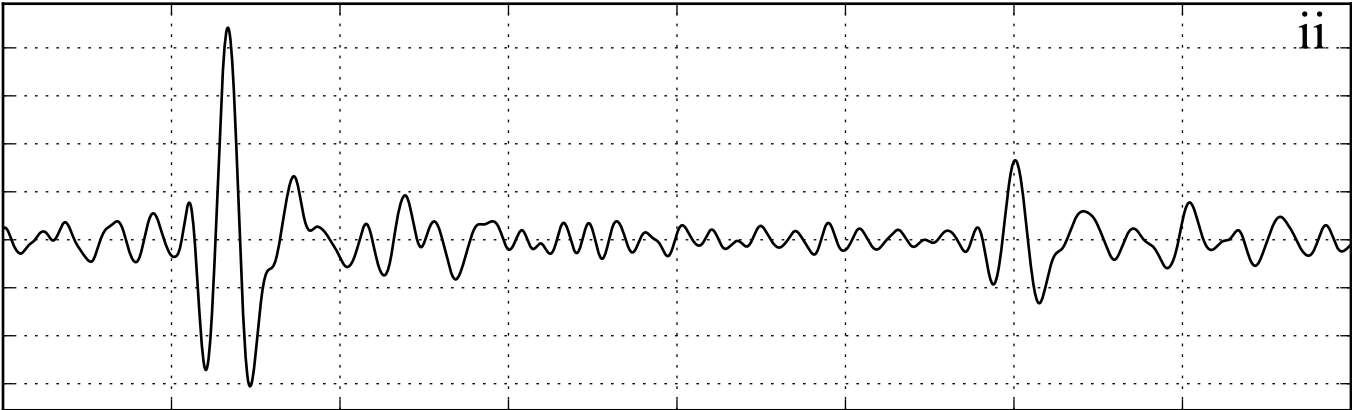
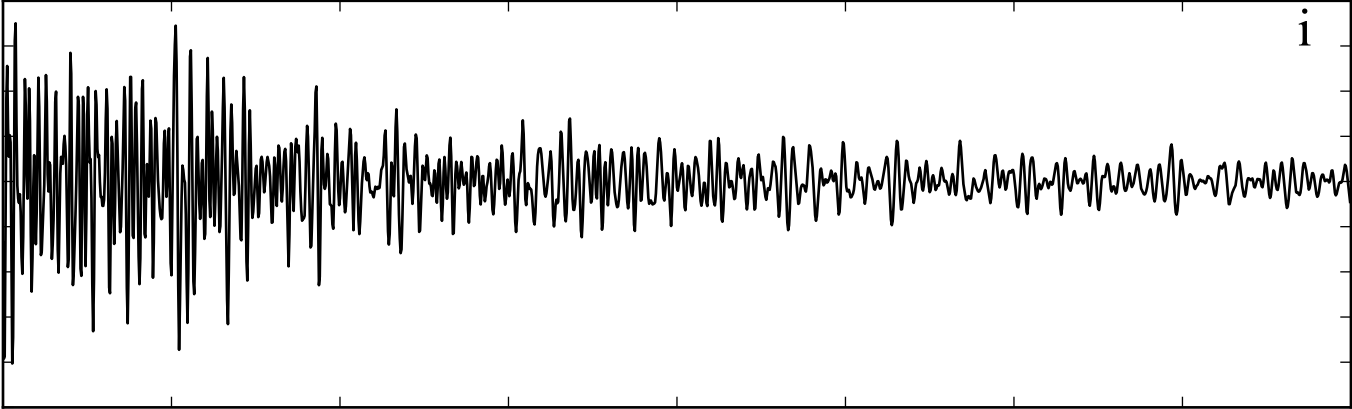
Time [s]





Time [s]





Time [s]

IU - MAJO - 00 - LHE $\Delta/Az/Baz = 3.6^\circ / 229^\circ / 47^\circ$ Srp=0.80

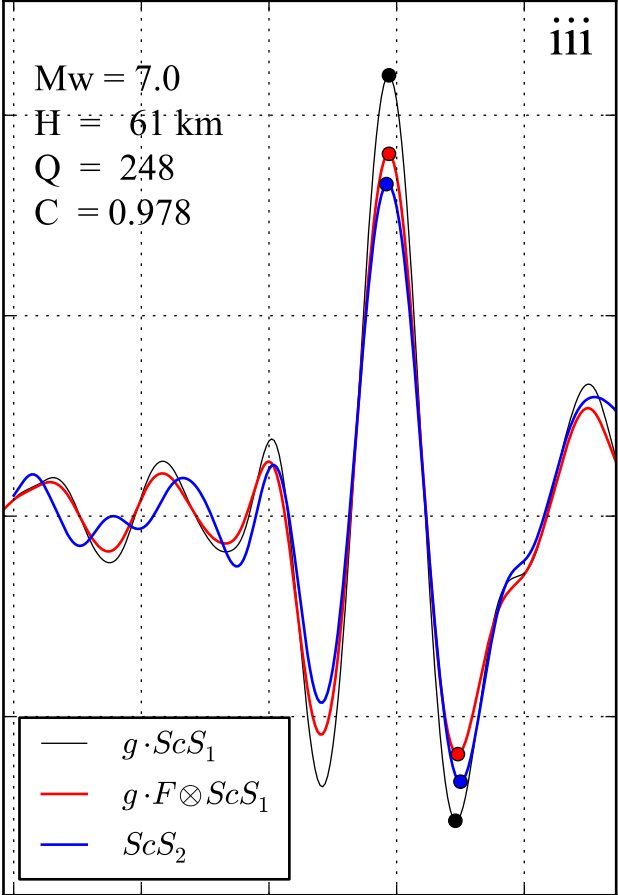
2003.146.09.19.33.248.IU.MAJO.00.LHE.SAC (2003/05/26)

ScS_2 - ScS_1 travel time: 935.2 τ : 53.5 s

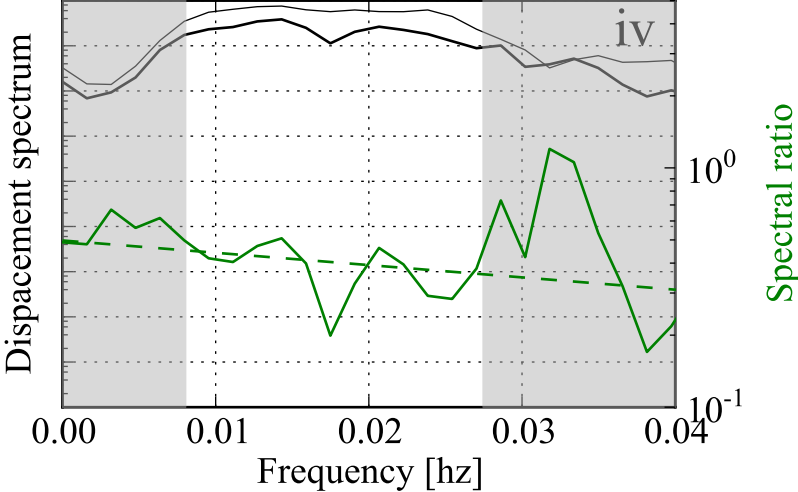
Centroid: 38.940 141.570 61.0 km Mw 7.0

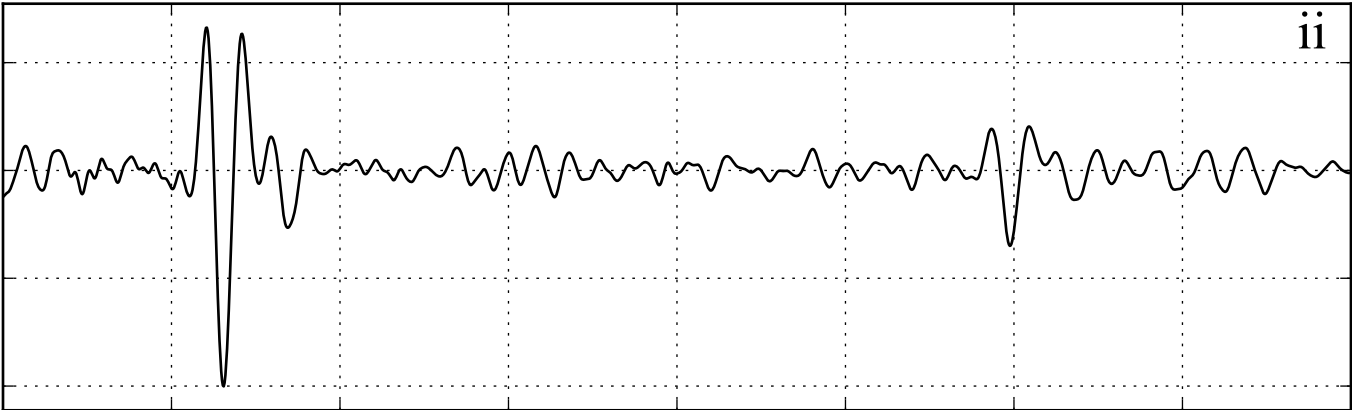
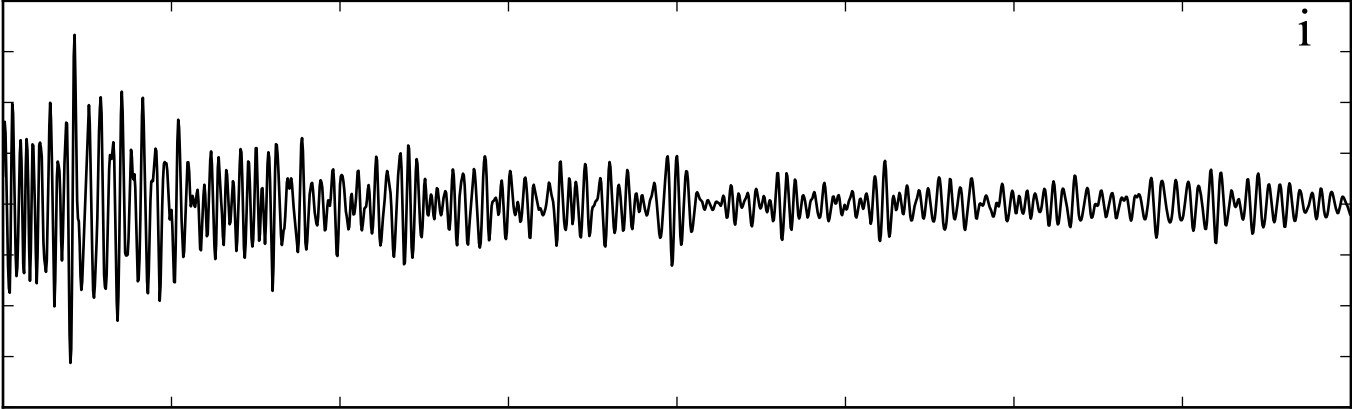
Q = 248 $t^* = 3.8$ s

Quality control: signal/noise ScS_1 : 16.85 ScS_2 6.72 Correlation : 0.978

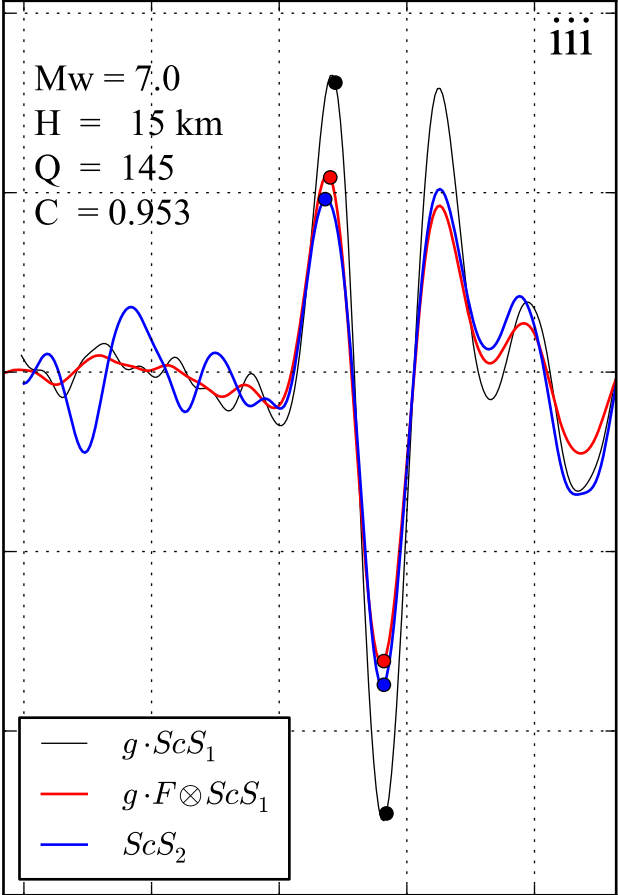
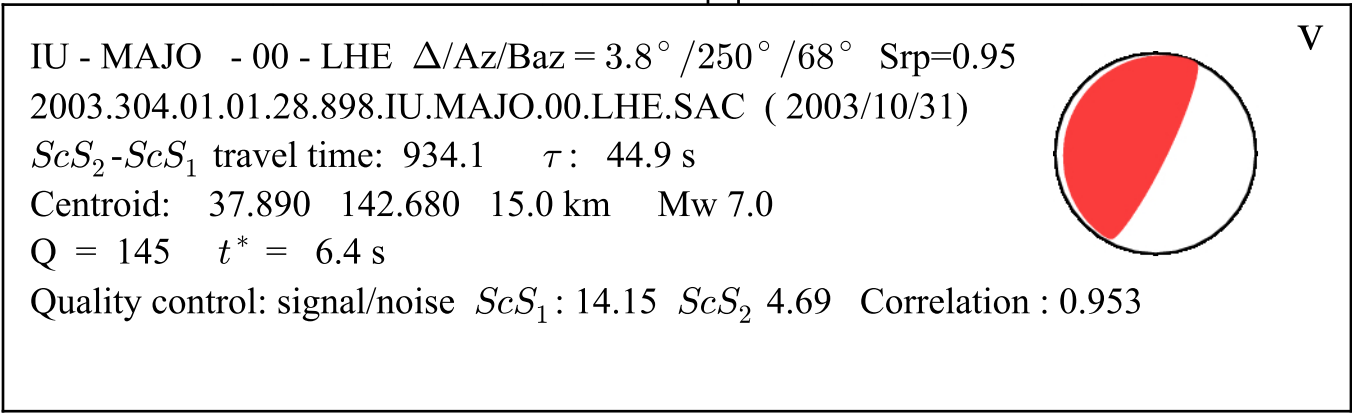


Time [s]

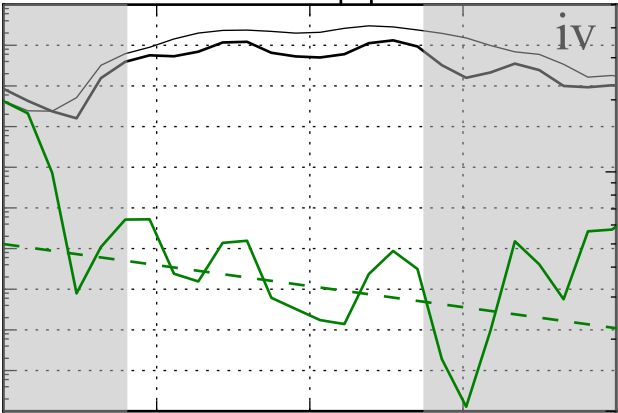




Time [s]

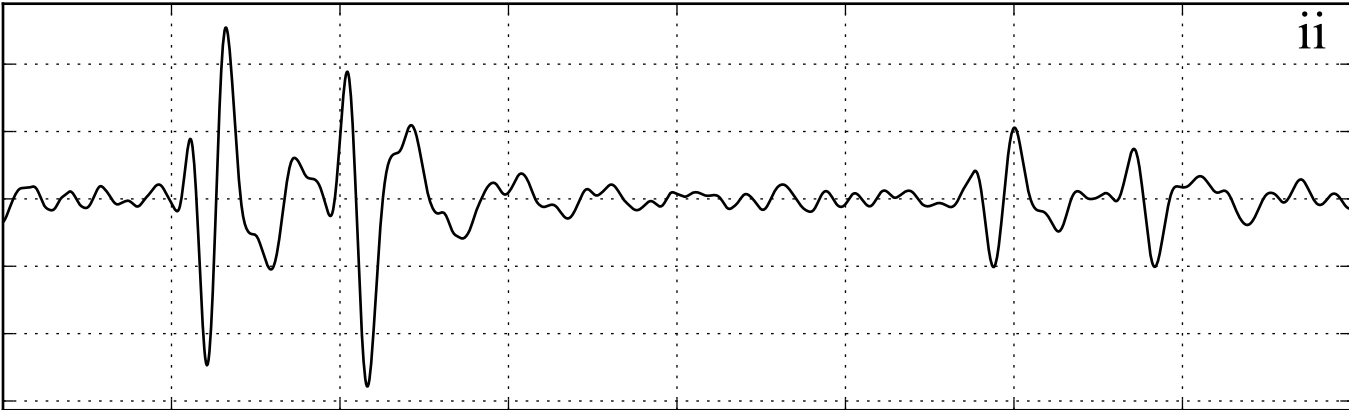
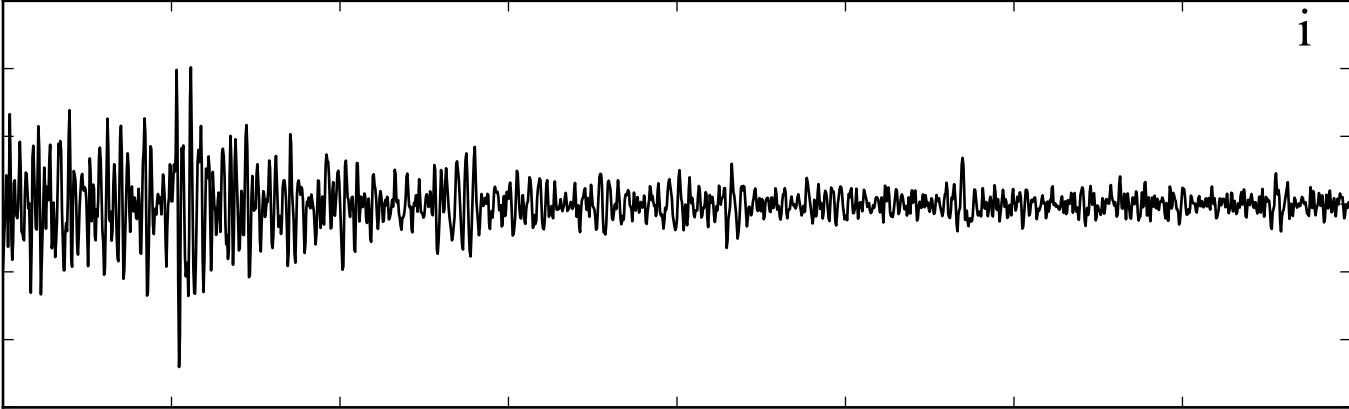


Time [s]

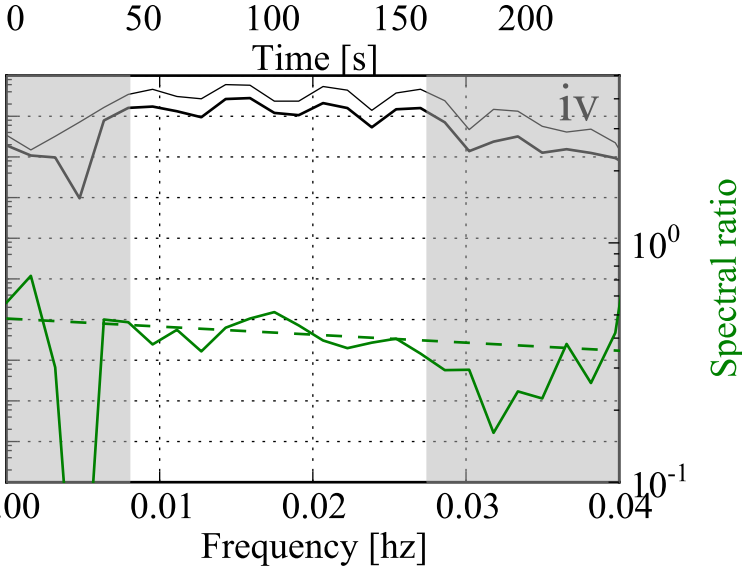
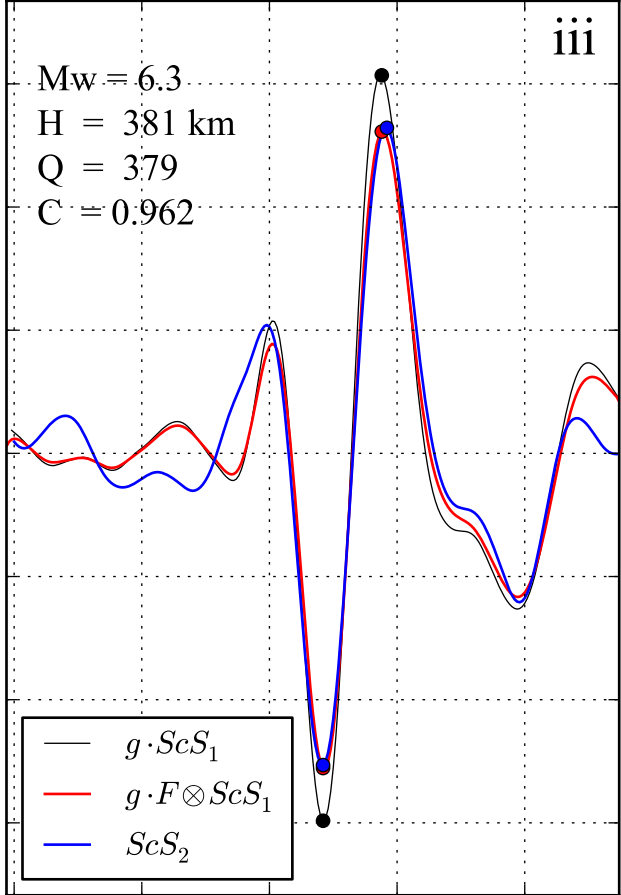
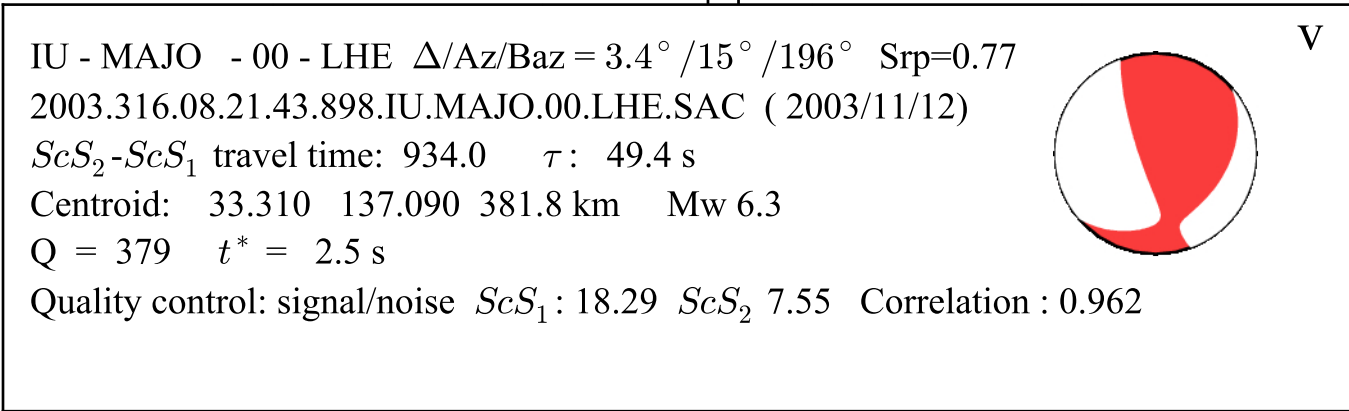


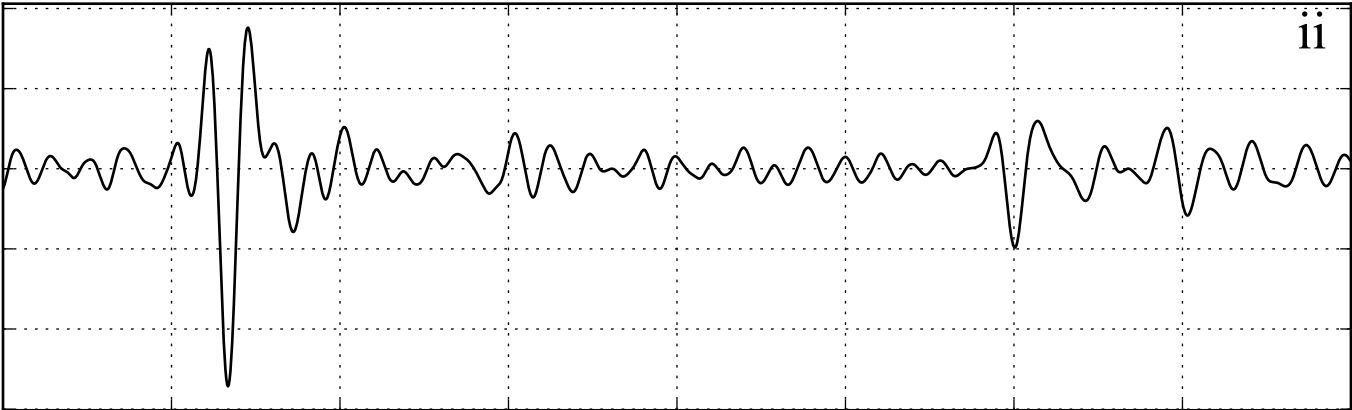
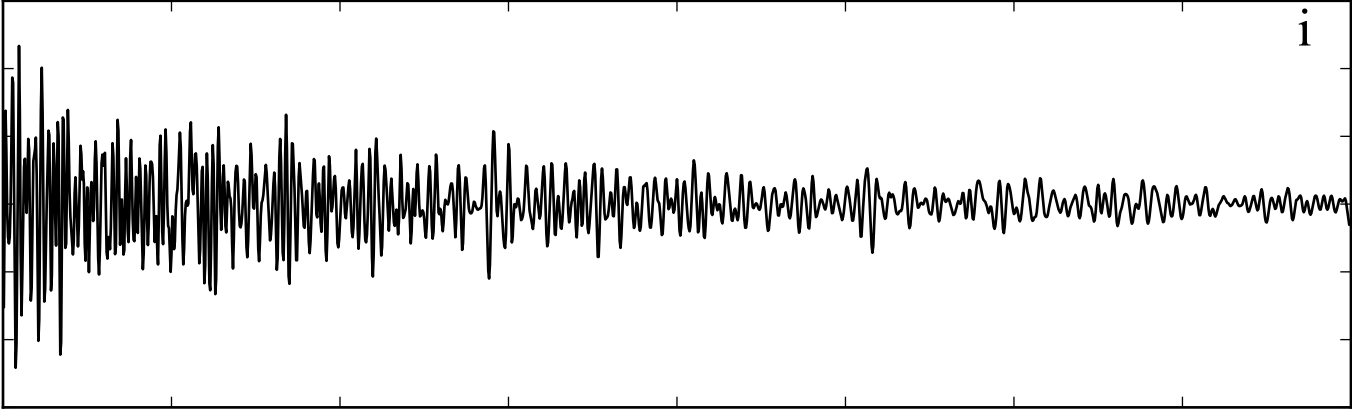
Frequency [hz]

Spectral ratio

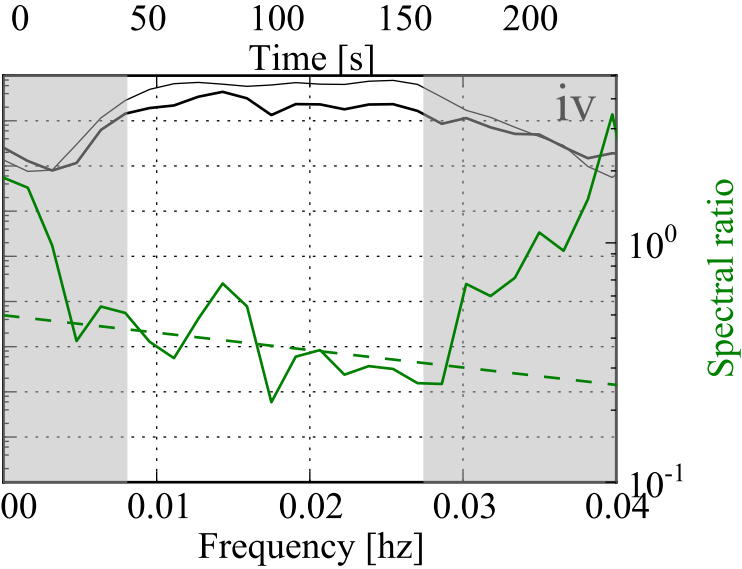
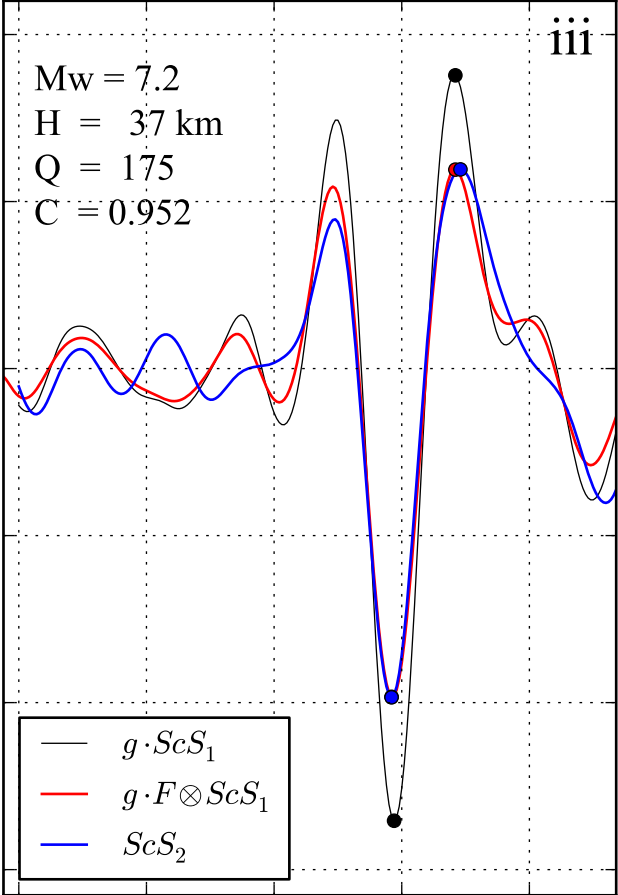
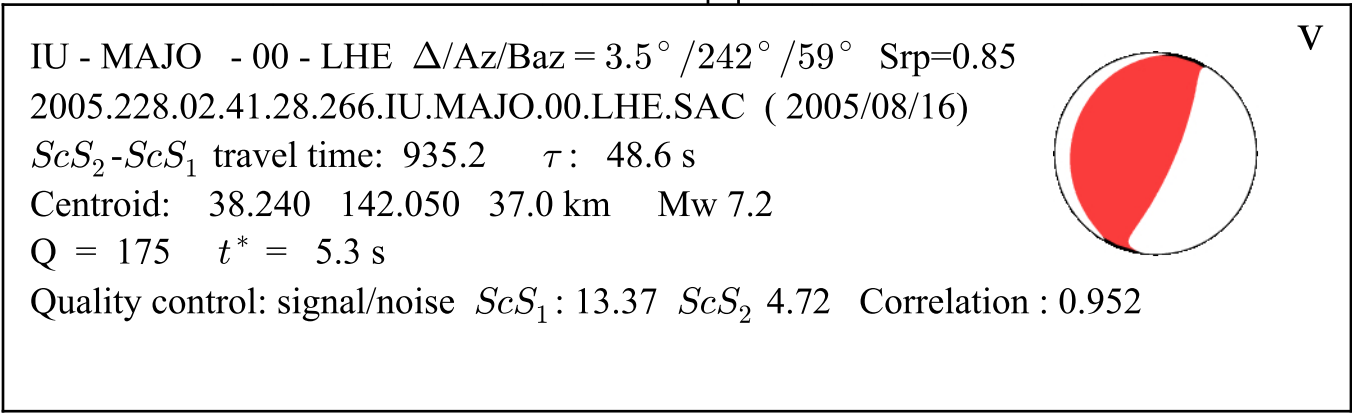


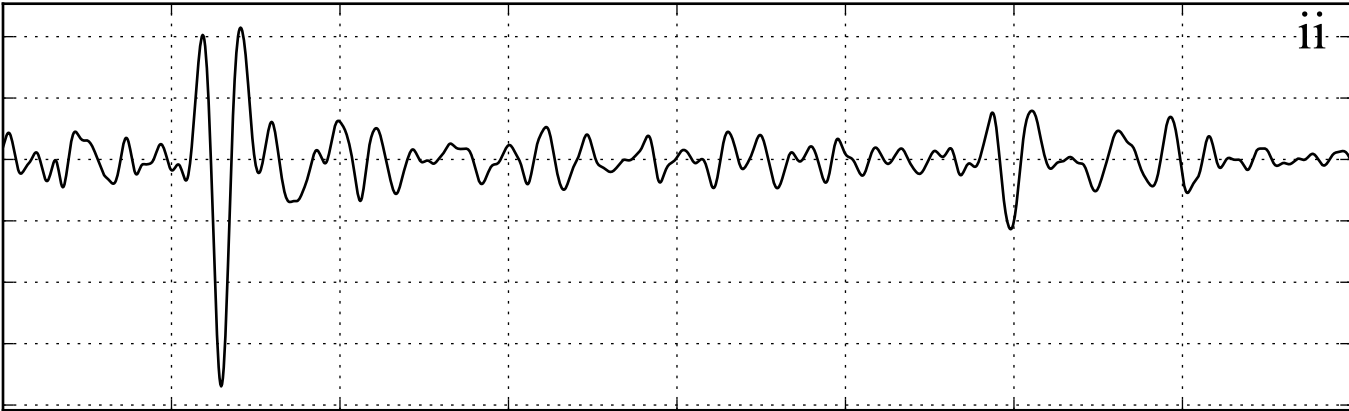
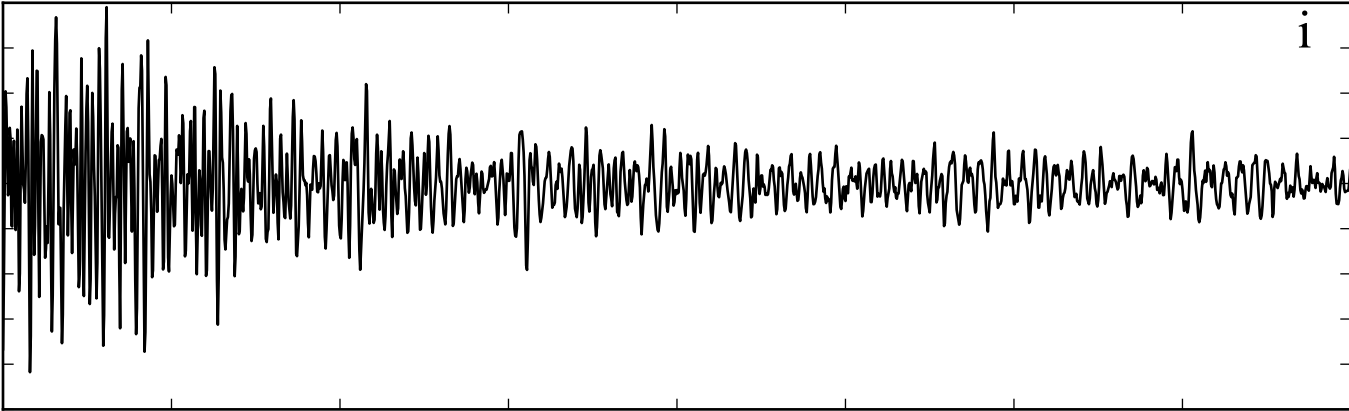
Time [s]



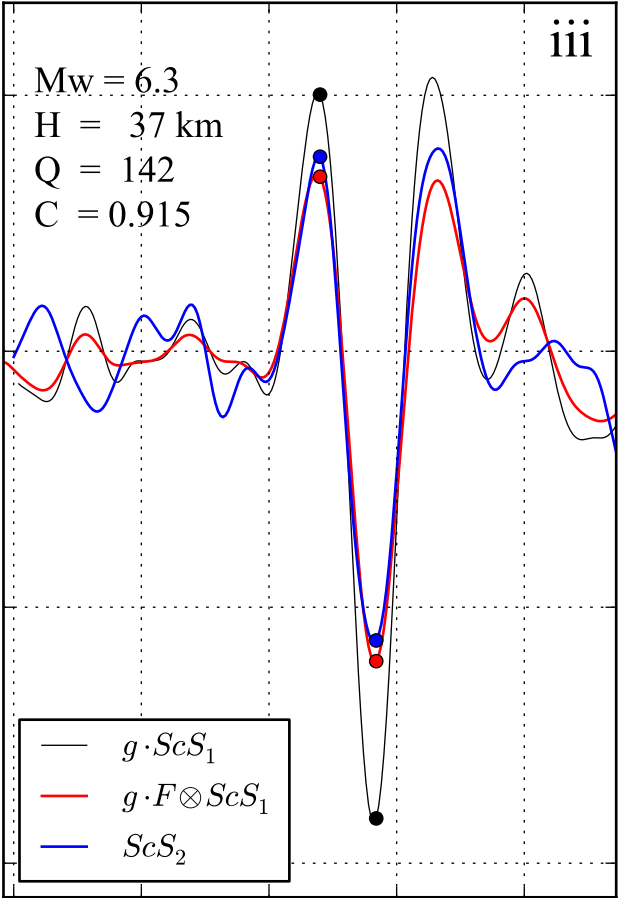
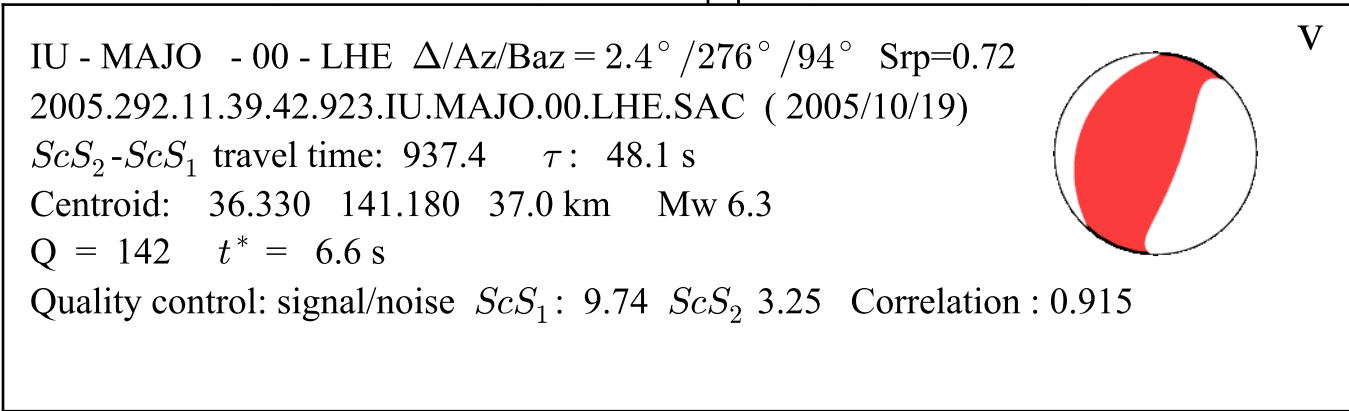


Time [s]

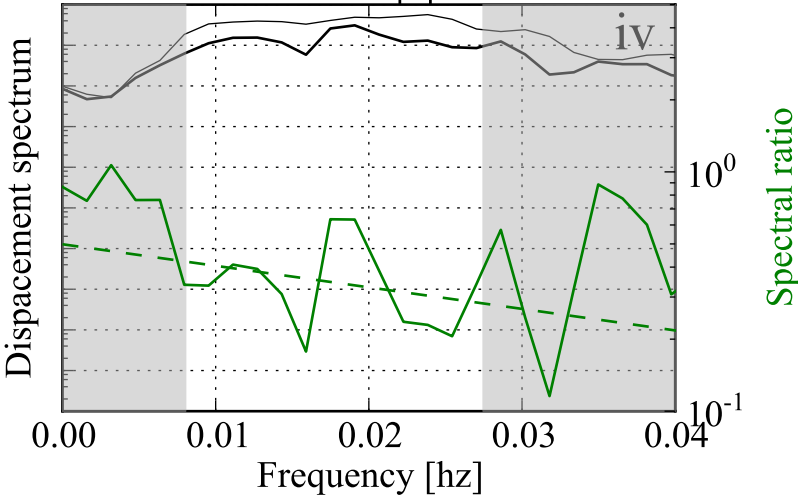


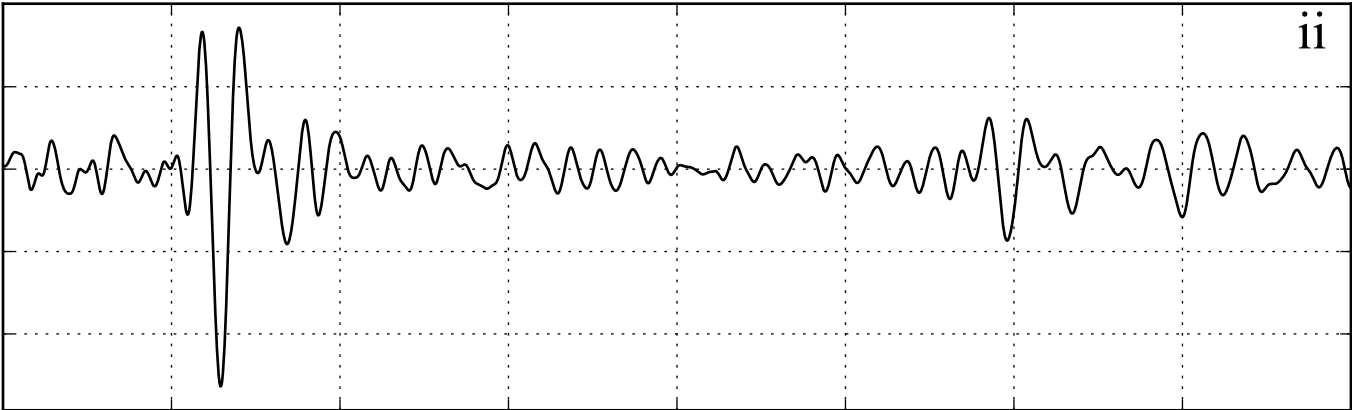
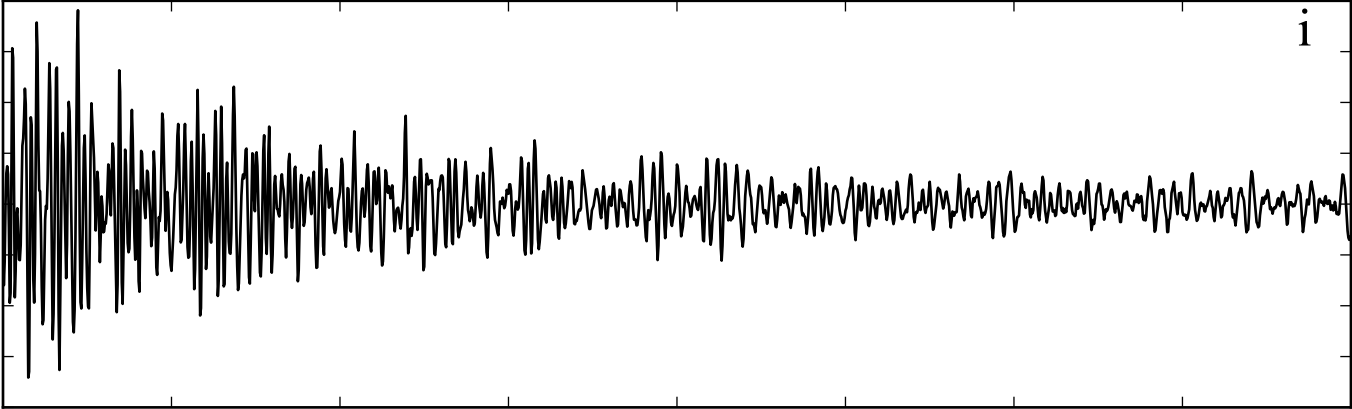


Time [s]

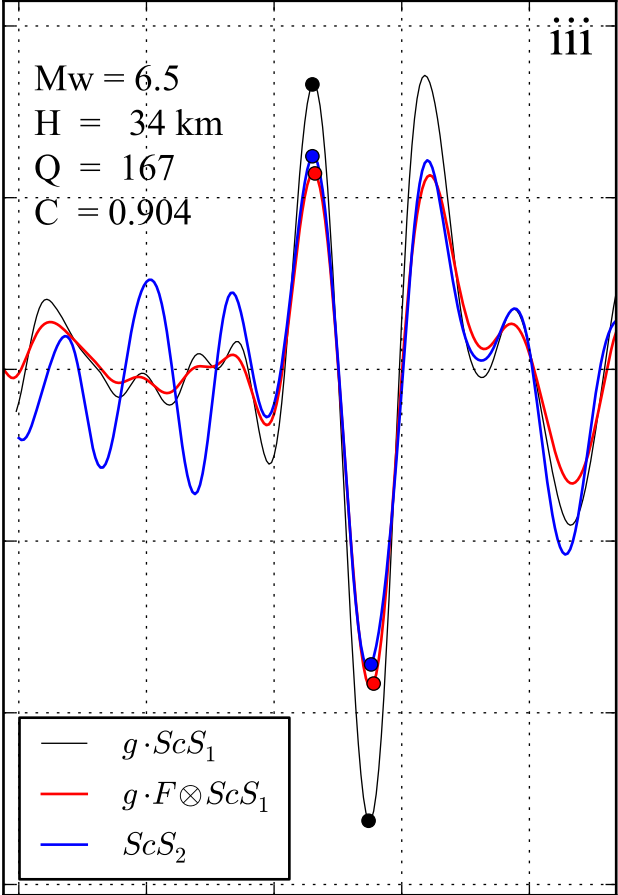
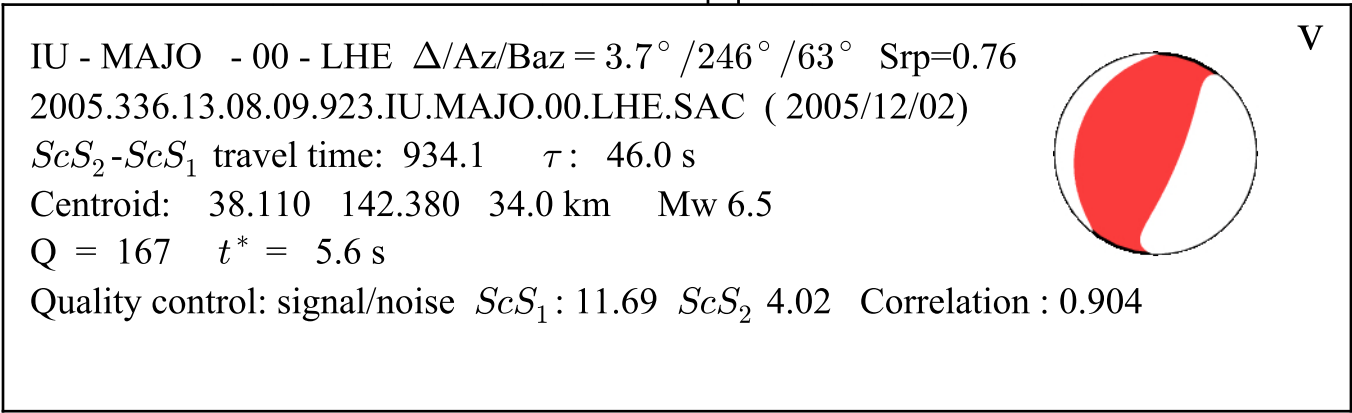


Time [s]

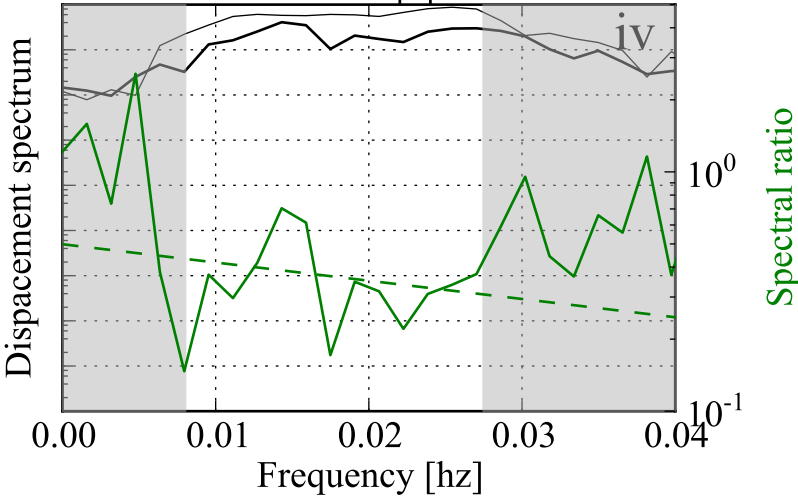


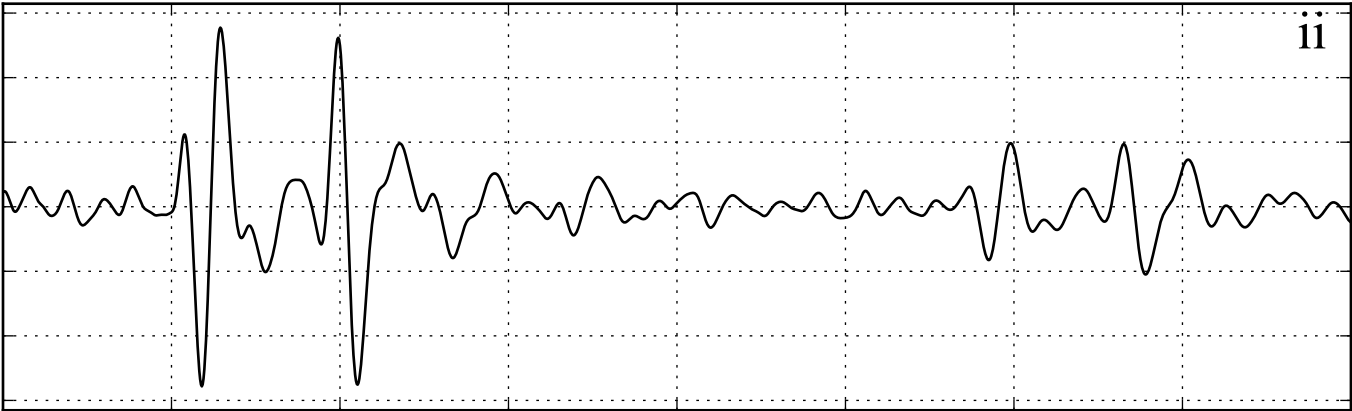
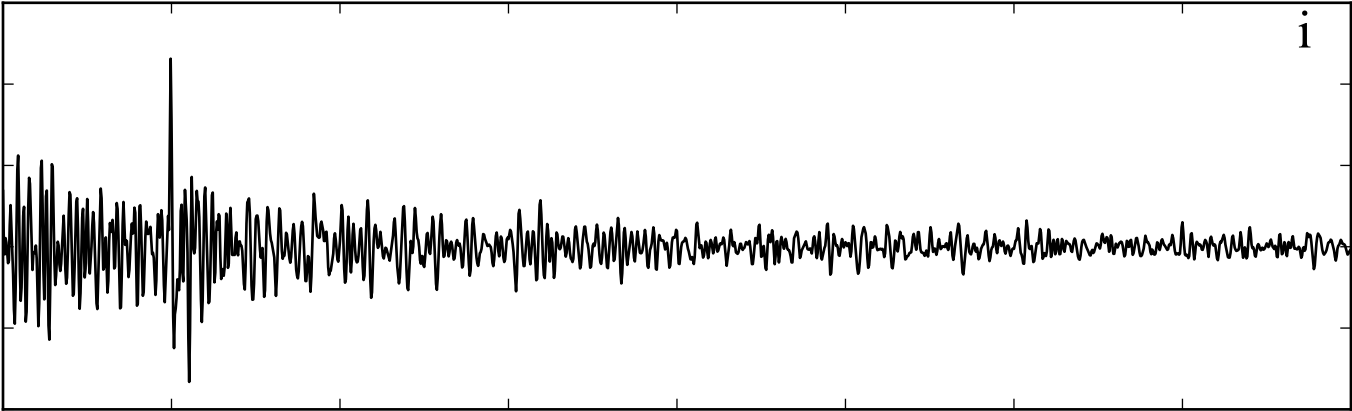


Time [s]

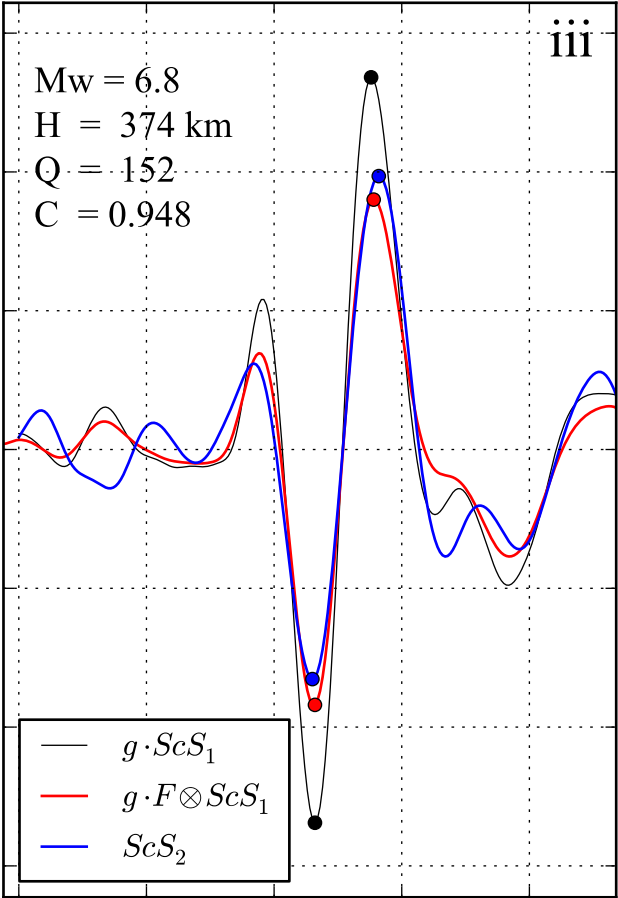
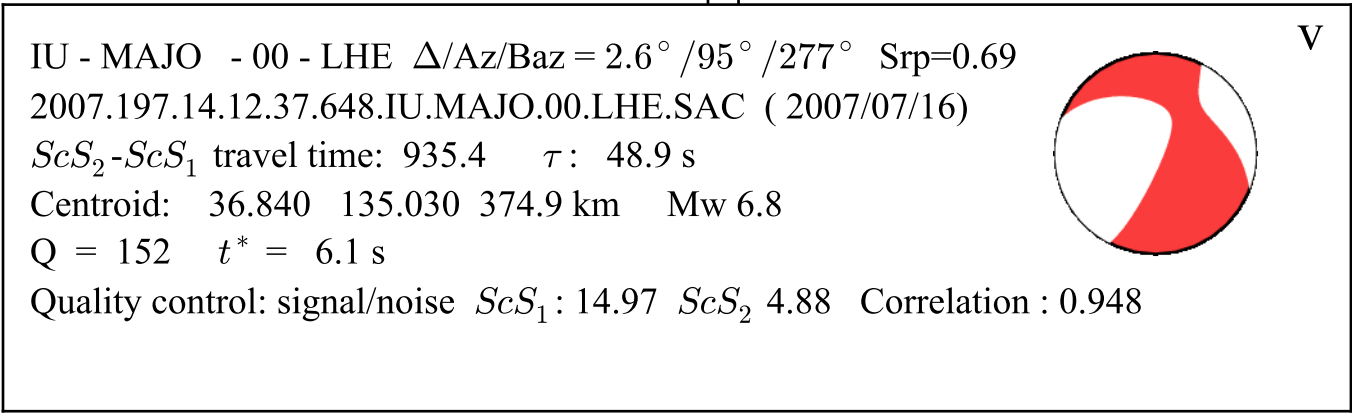


Time [s]

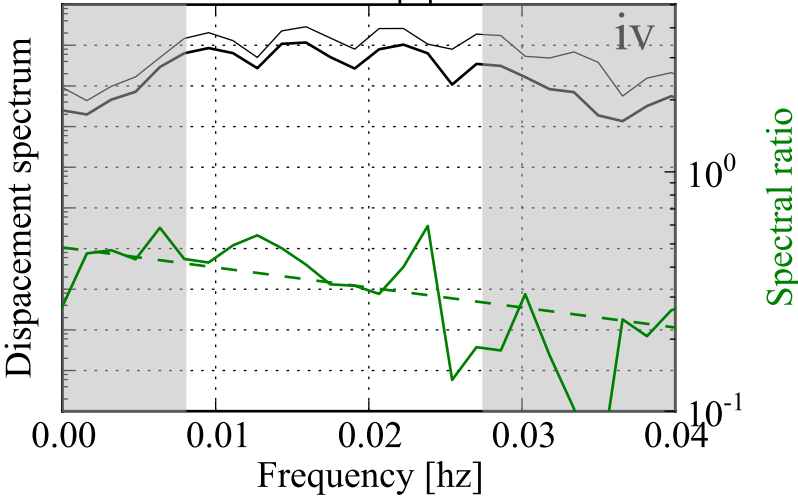


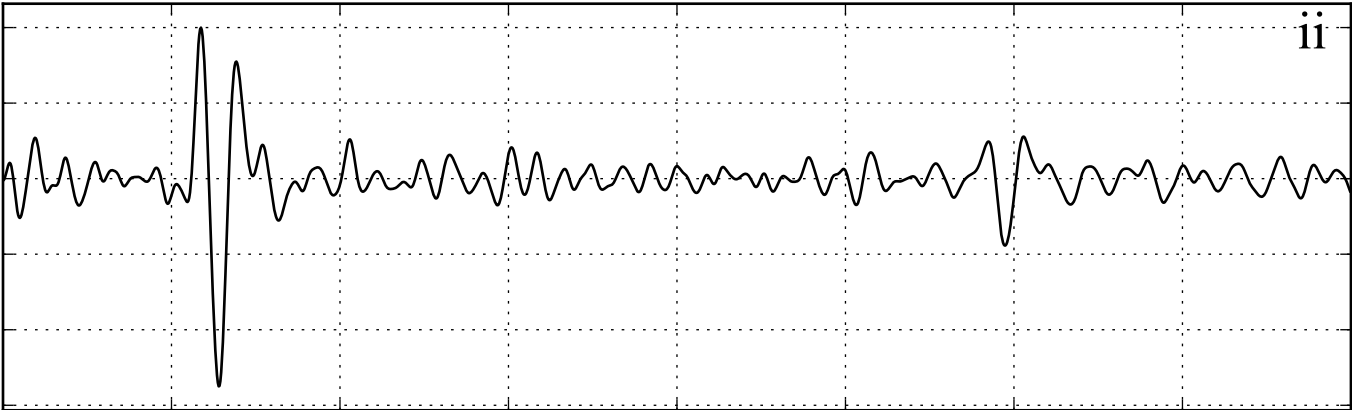
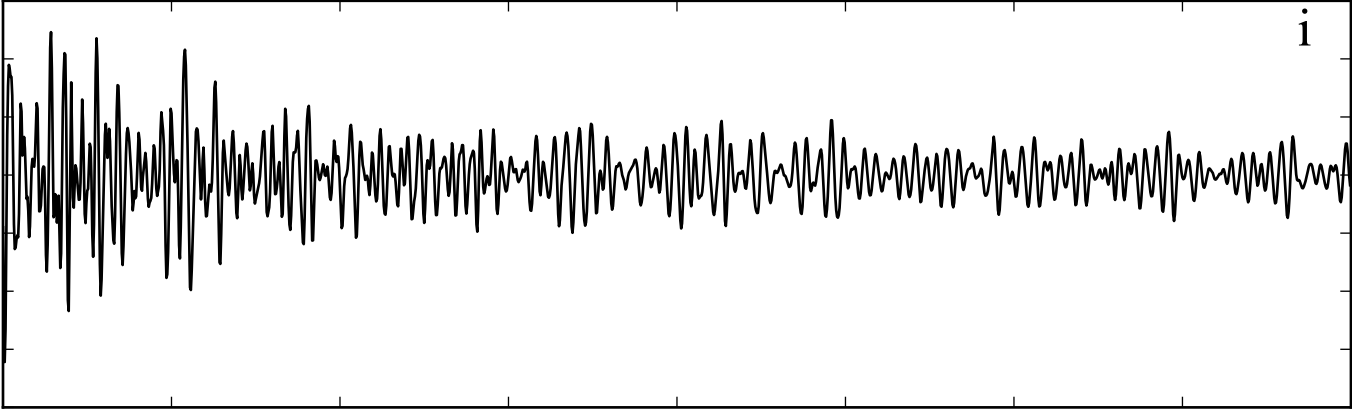


Time [s]

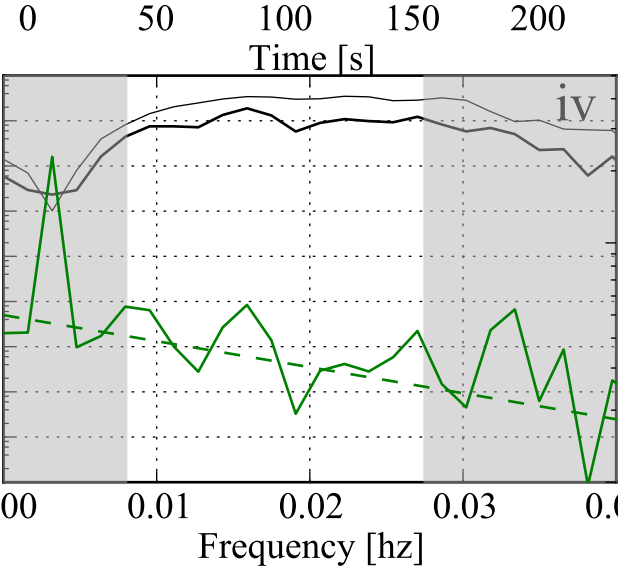
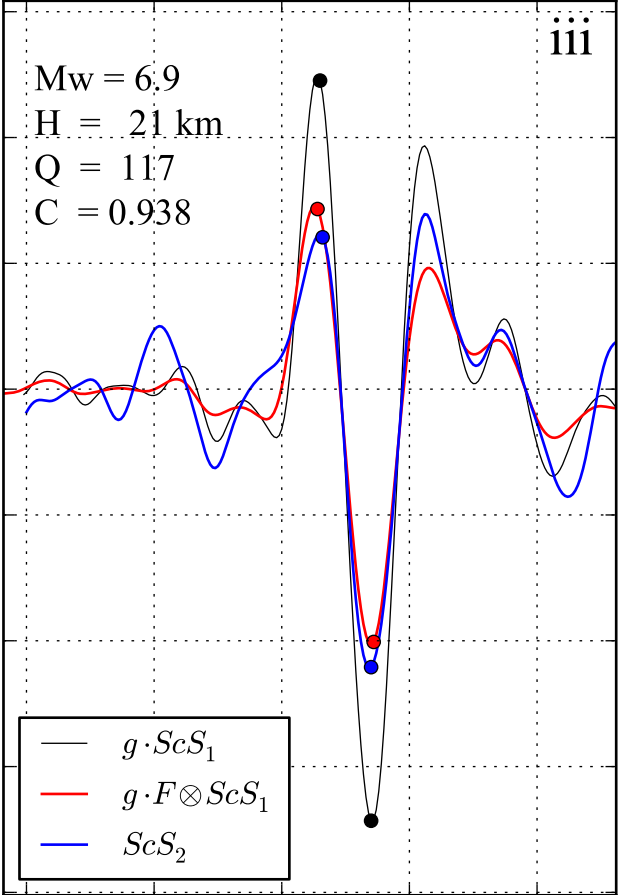
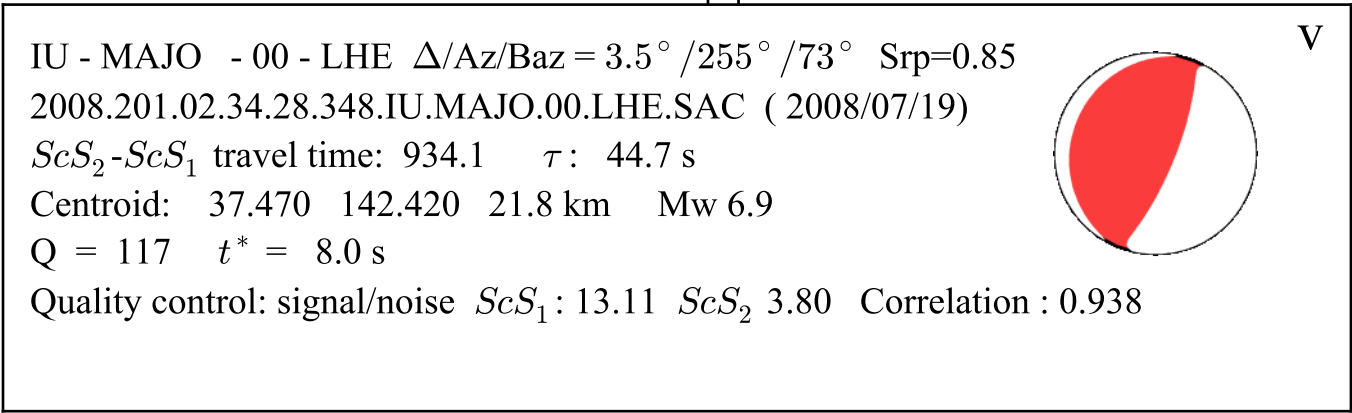


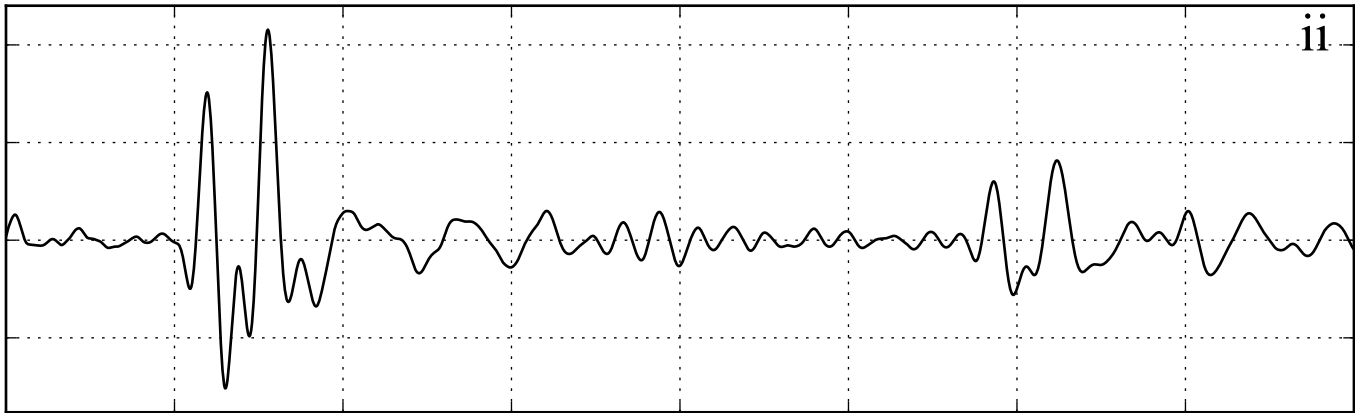
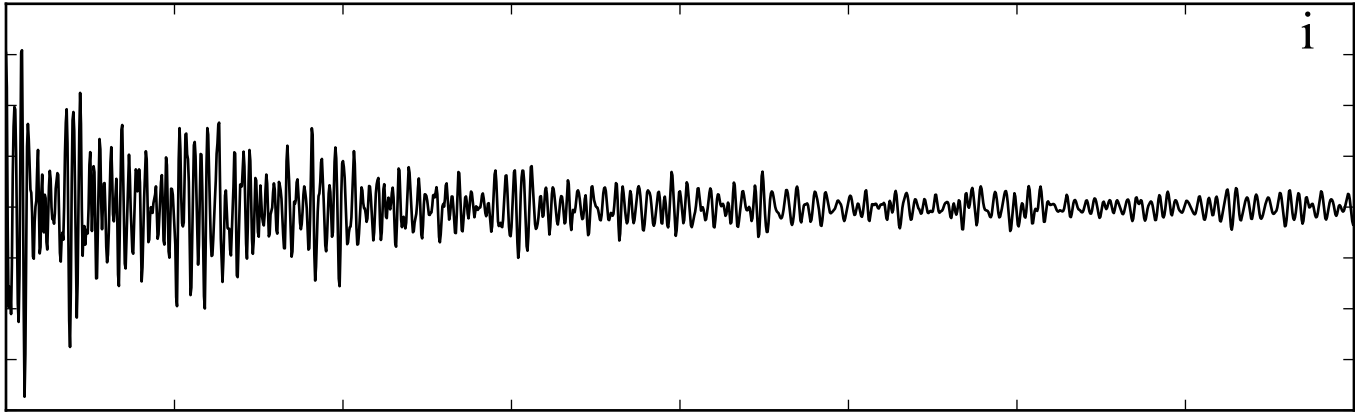
Time [s]



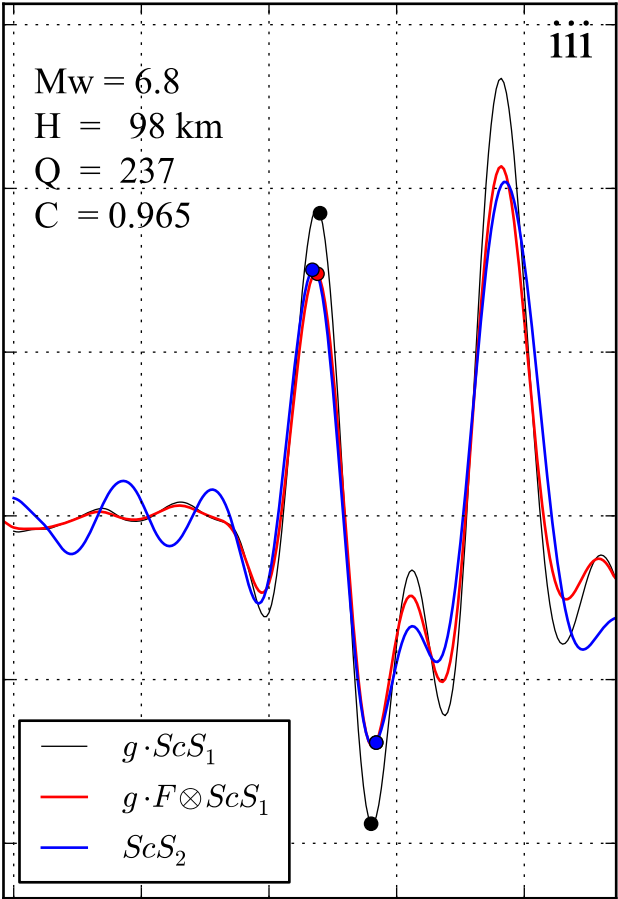
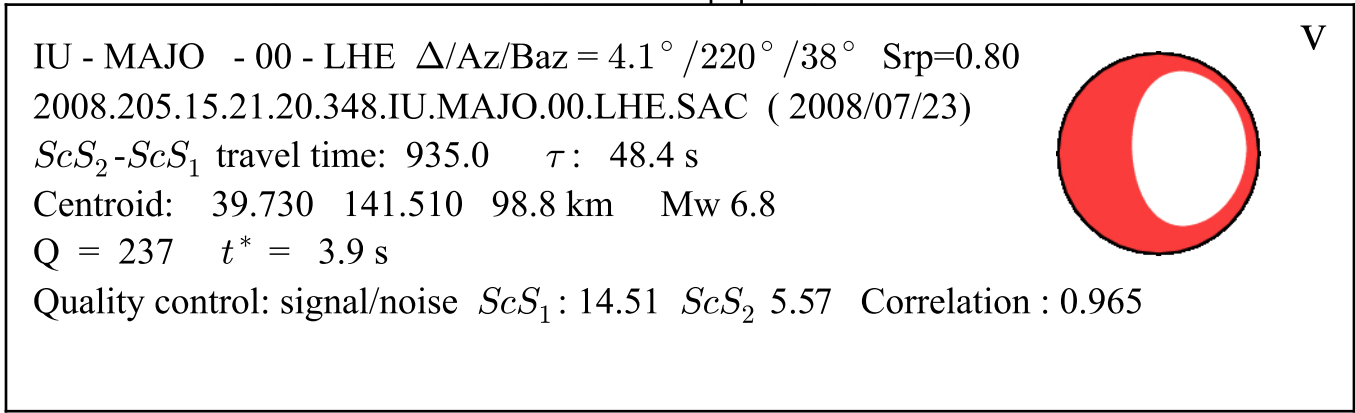


Time [s]

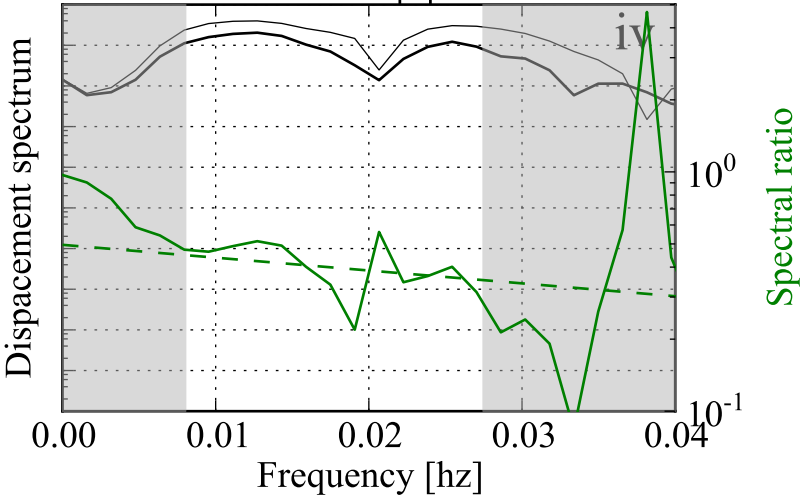


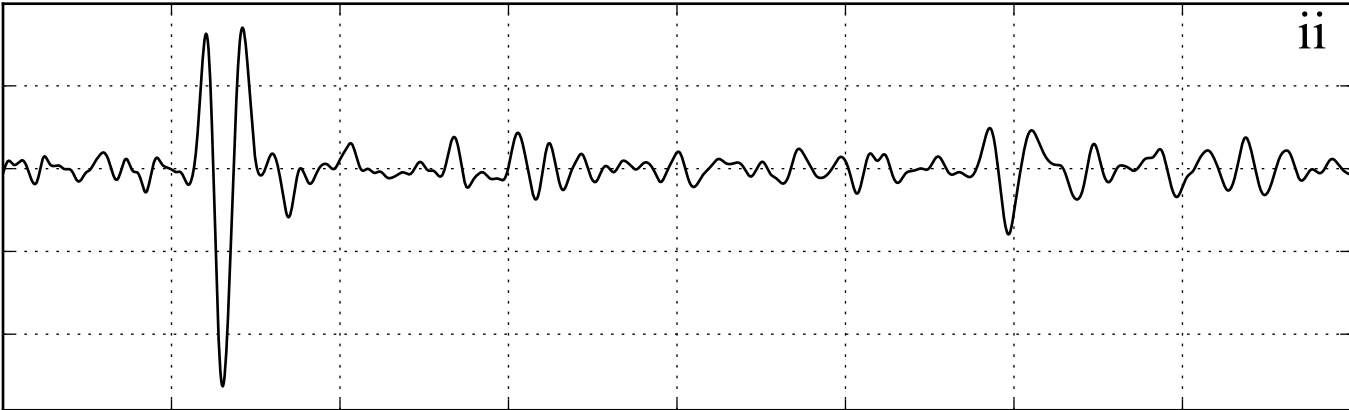
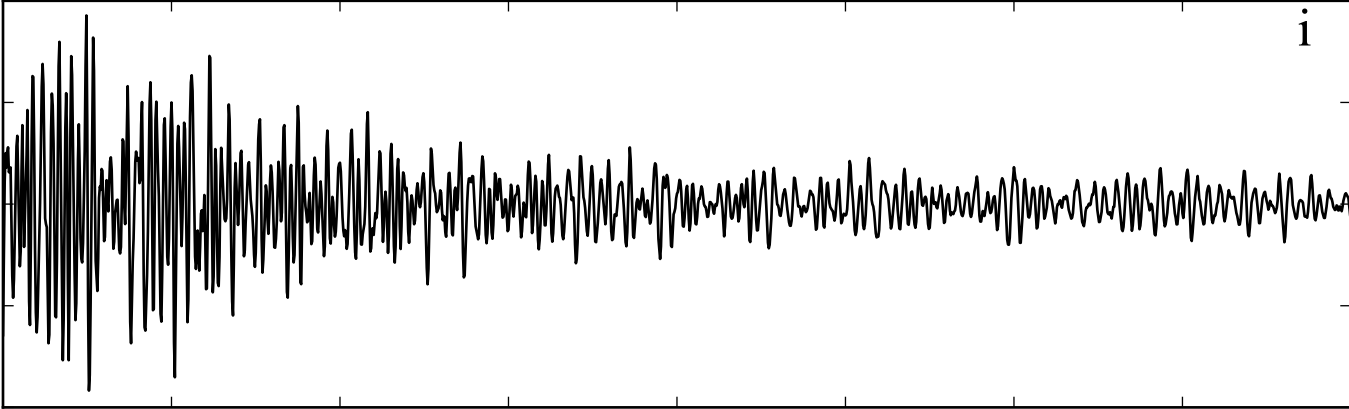


Time [s]



Time [s]





Time [s]

IU - MAJO - 00 - LH2 $\Delta/Az/Baz = 3.2^\circ/250^\circ/67^\circ$ $Srp=0.67$

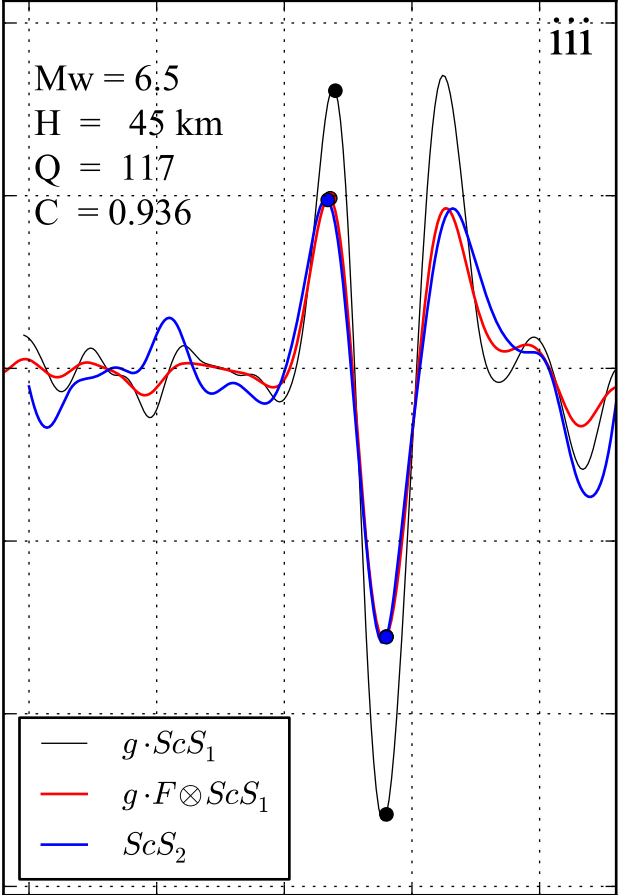
2010.073.08.03.04.069.IU.MAJO.00.LH2.SAC (2010/03/14)

ScS_2 - ScS_1 travel time: 933.2 τ : 46.3 s

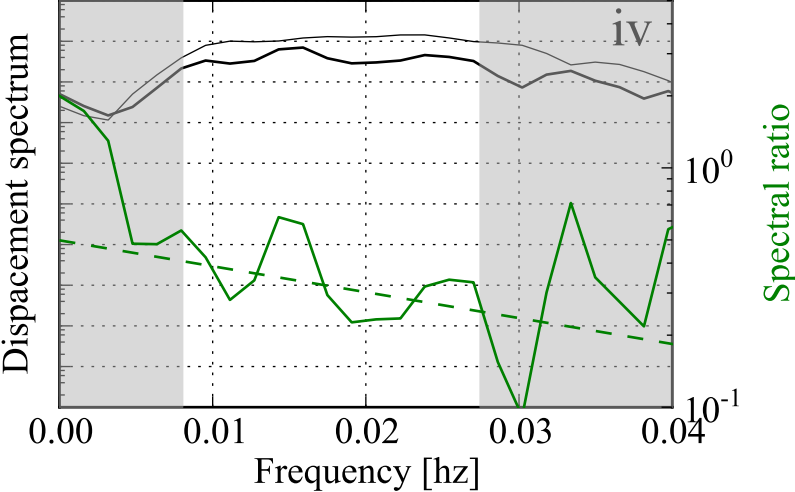
Centroid: 37.700 141.980 45.9 km Mw 6.5

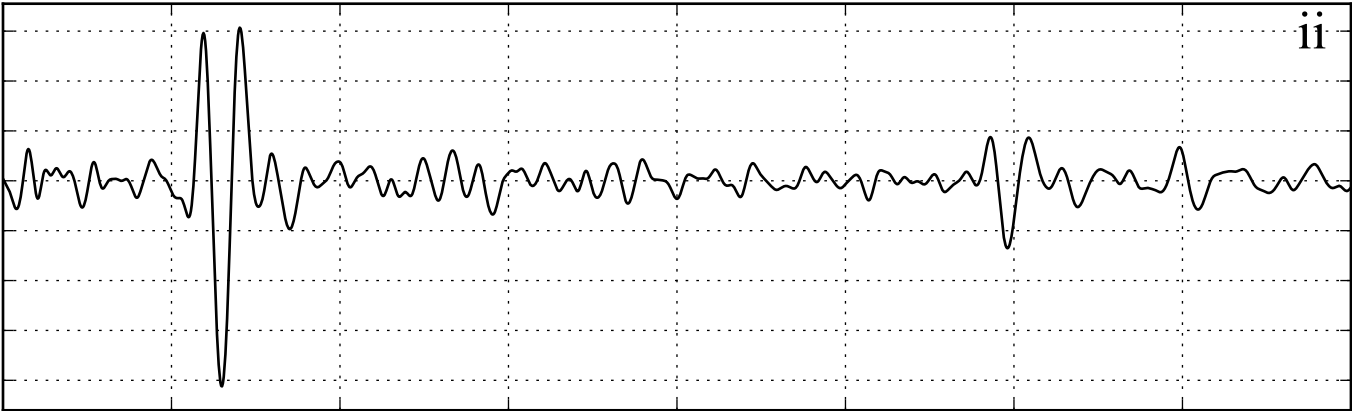
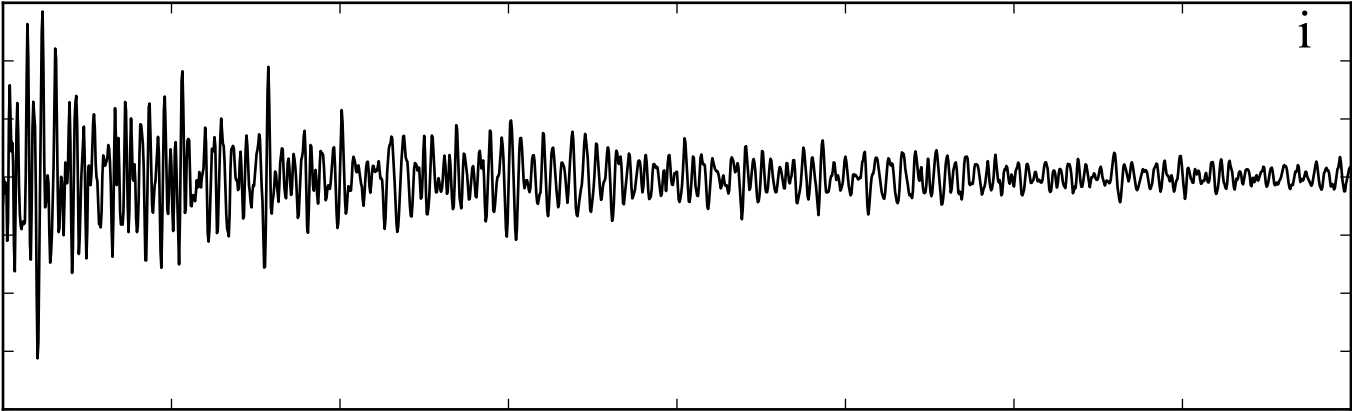
$Q = 117$ $t^* = 7.9$ s

Quality control: signal/noise ScS_1 : 12.51 ScS_2 3.76 Correlation : 0.936



Time [s]





Time [s]

IU - MAJO - 00 - LH2 $\Delta/Az/Baz = 4.8^\circ/230^\circ/47^\circ$ $Srp=0.72$

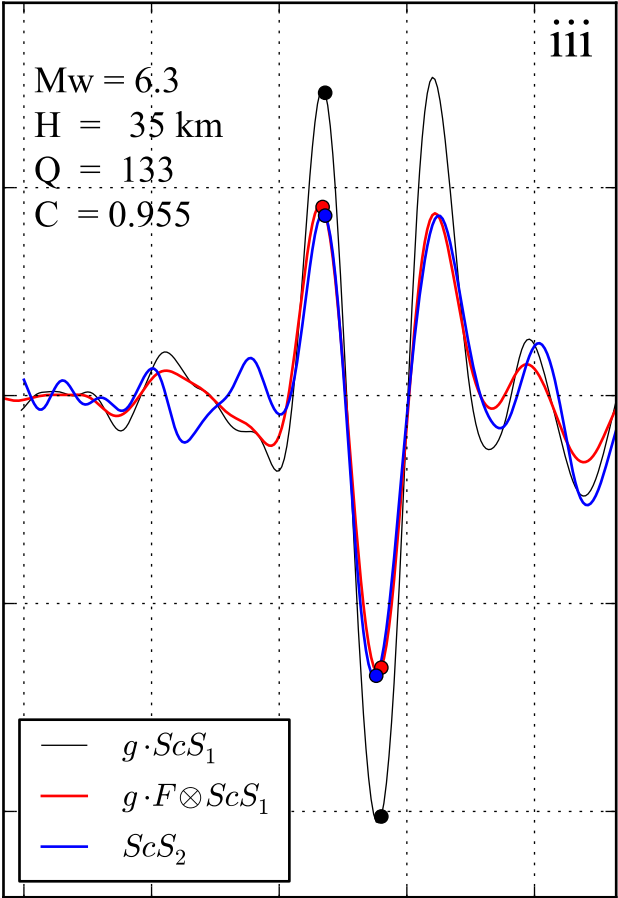
2010.185.21.50.52.069.IU.MAJO.00.LH2.SAC (2010/07/04)

ScS_2 - ScS_1 travel time: 933.8 τ : 45.3 s

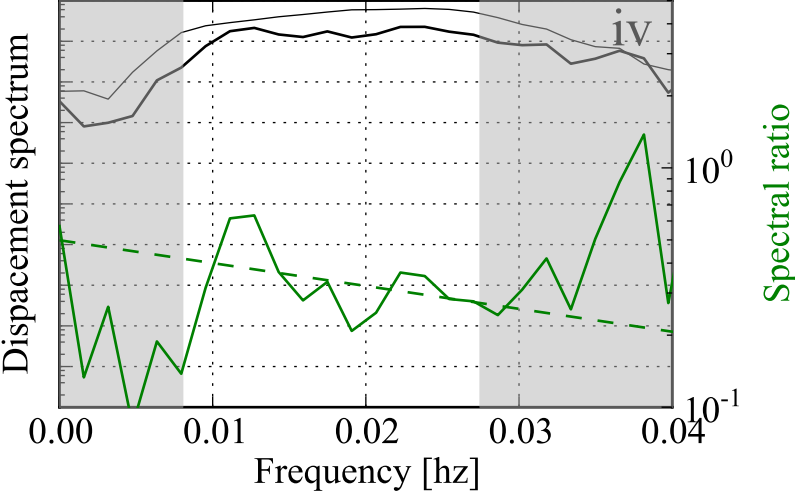
Centroid: 39.680 142.770 35.3 km Mw 6.3

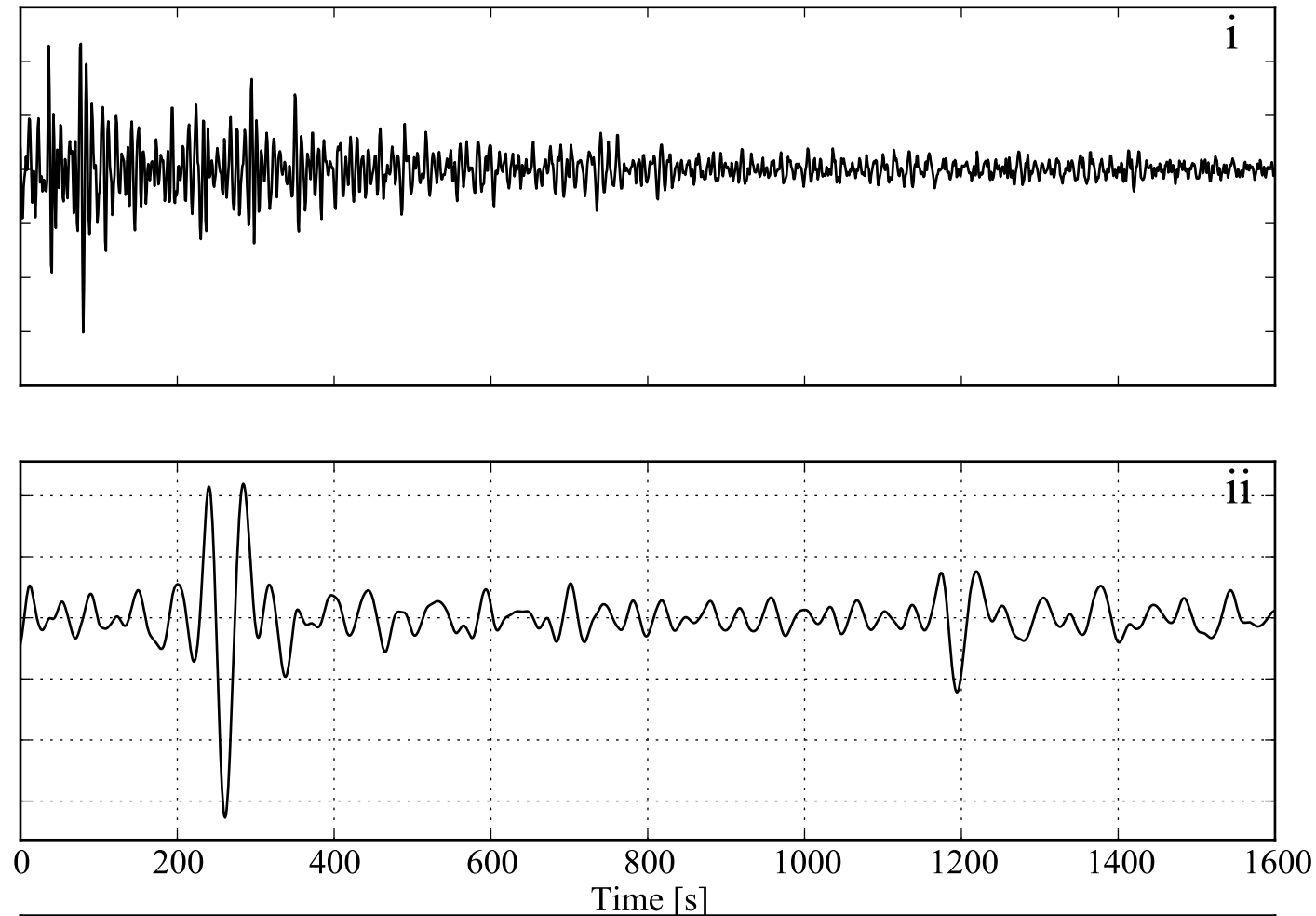
$Q = 133$ $t^* = 7.0$ s

Quality control: signal/noise ScS_1 : 16.22 ScS_2 5.14 Correlation : 0.955

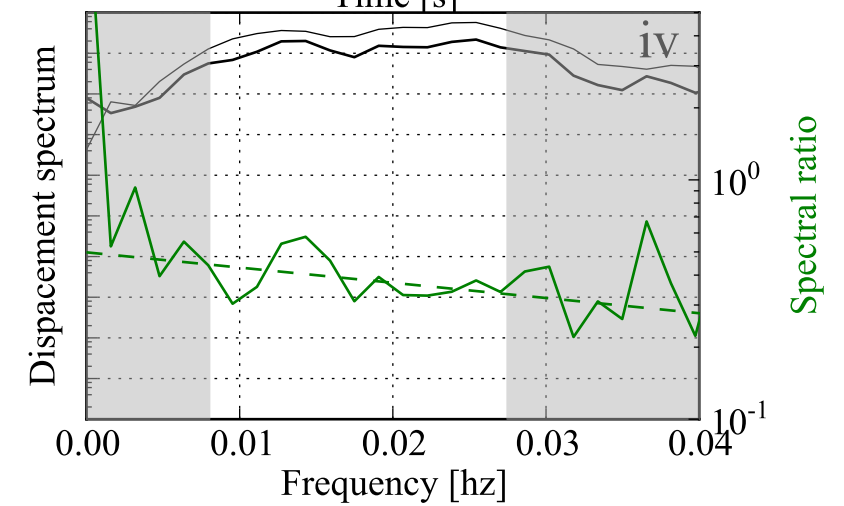
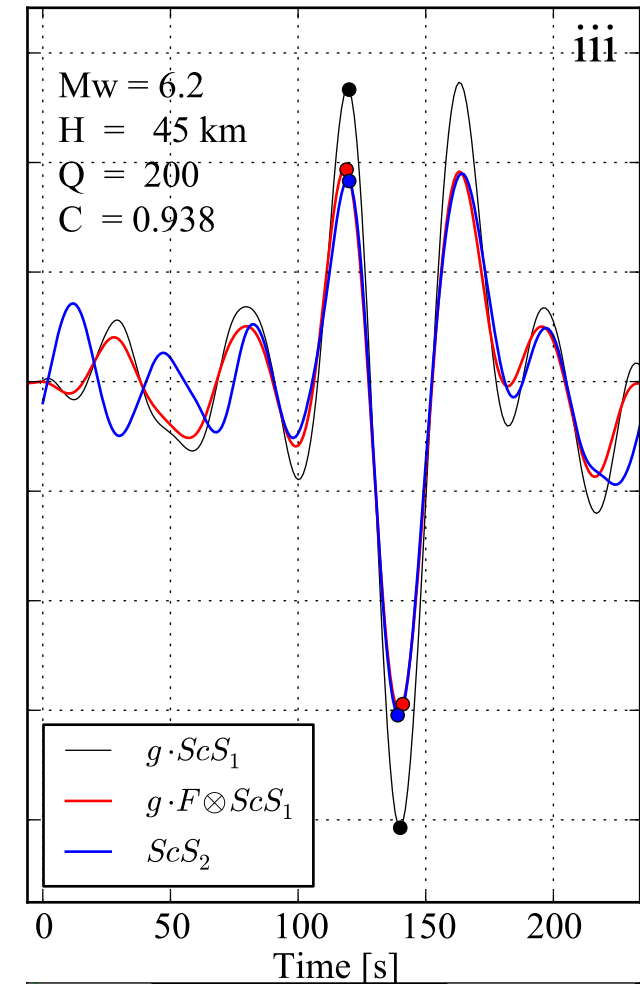
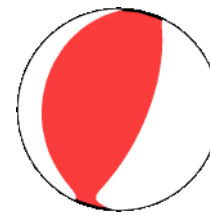


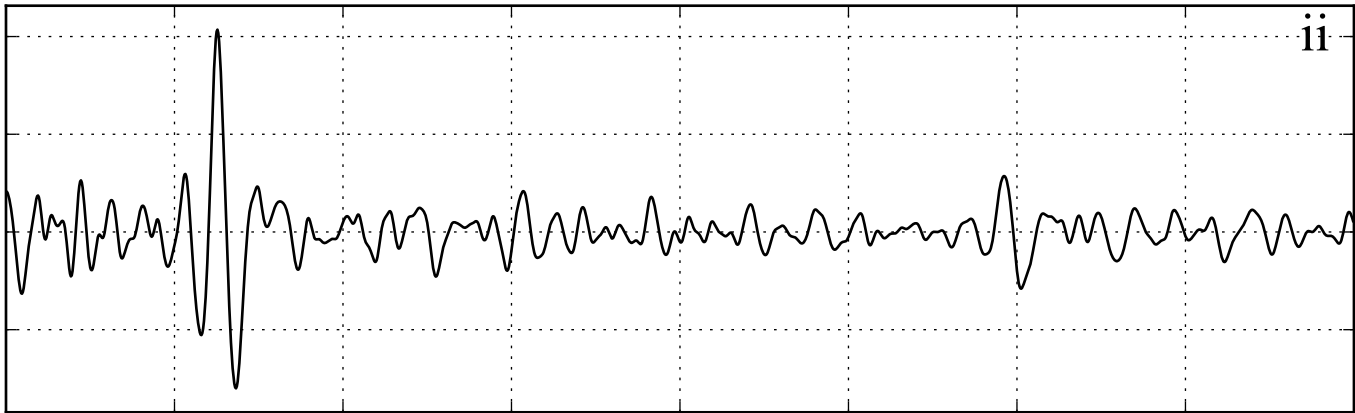
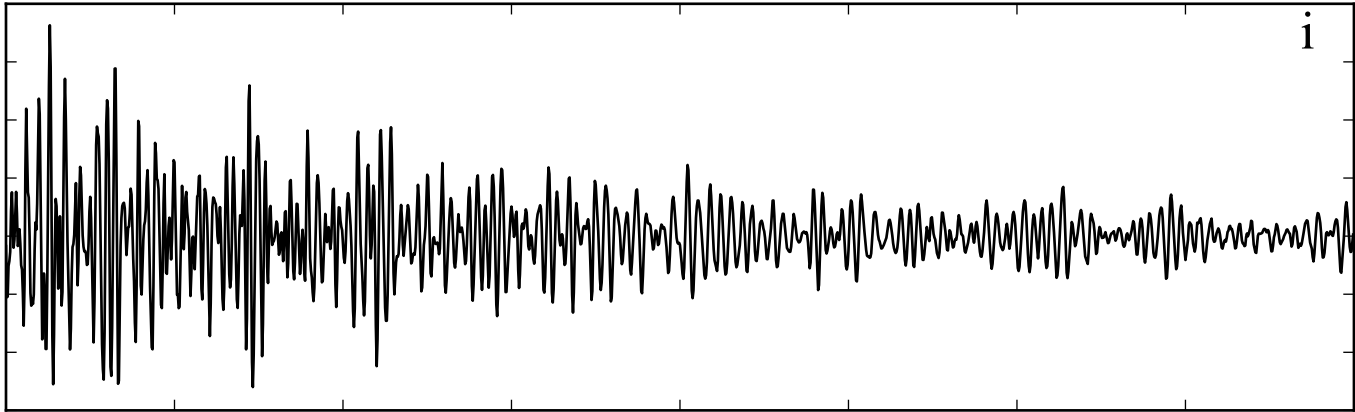
Time [s]



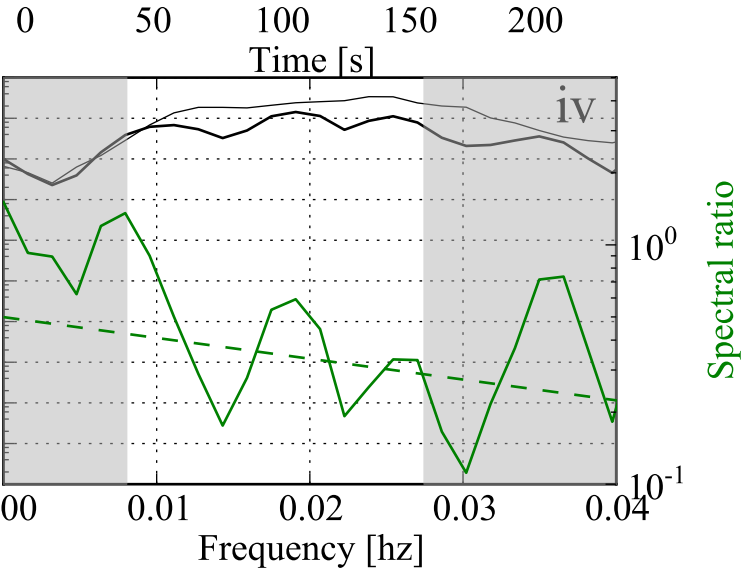
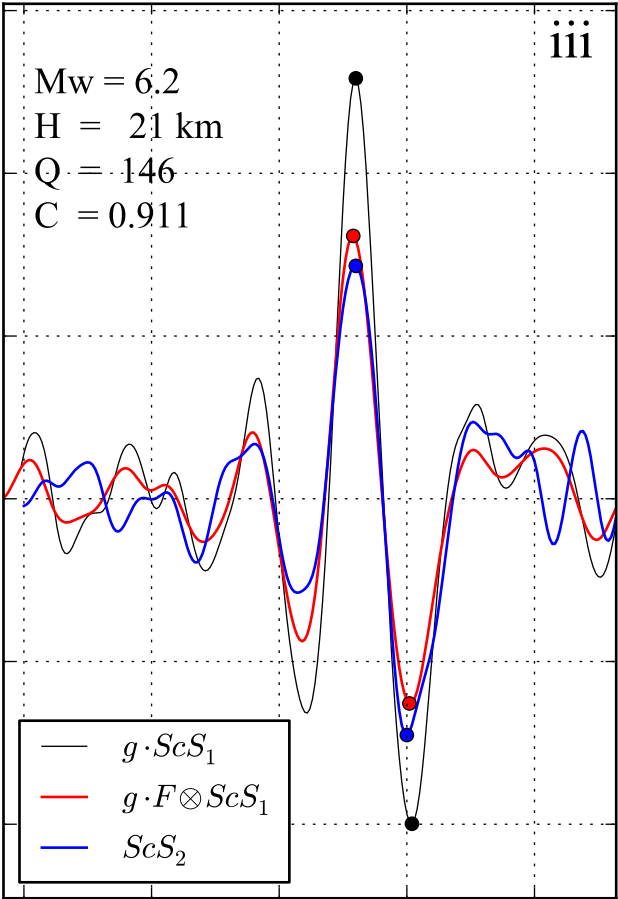
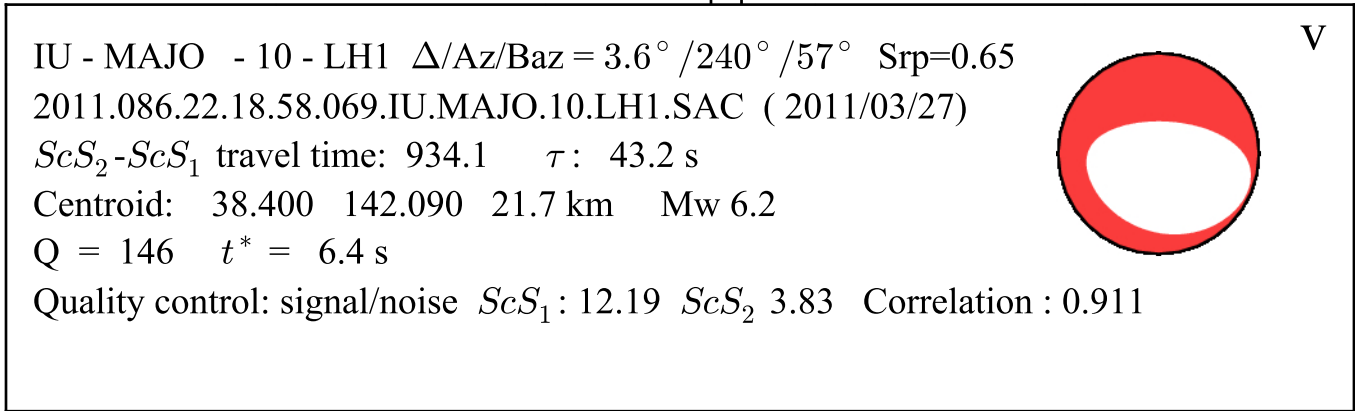


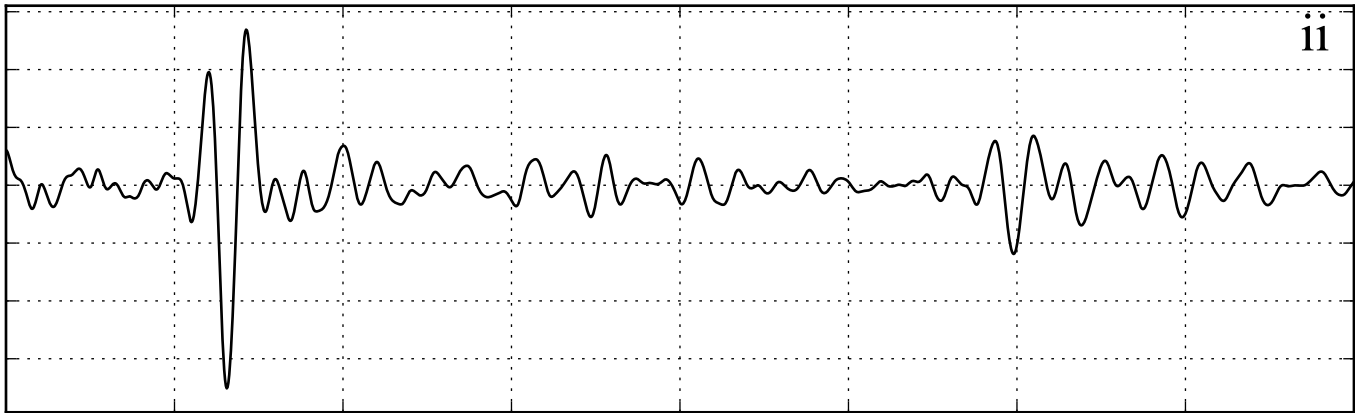
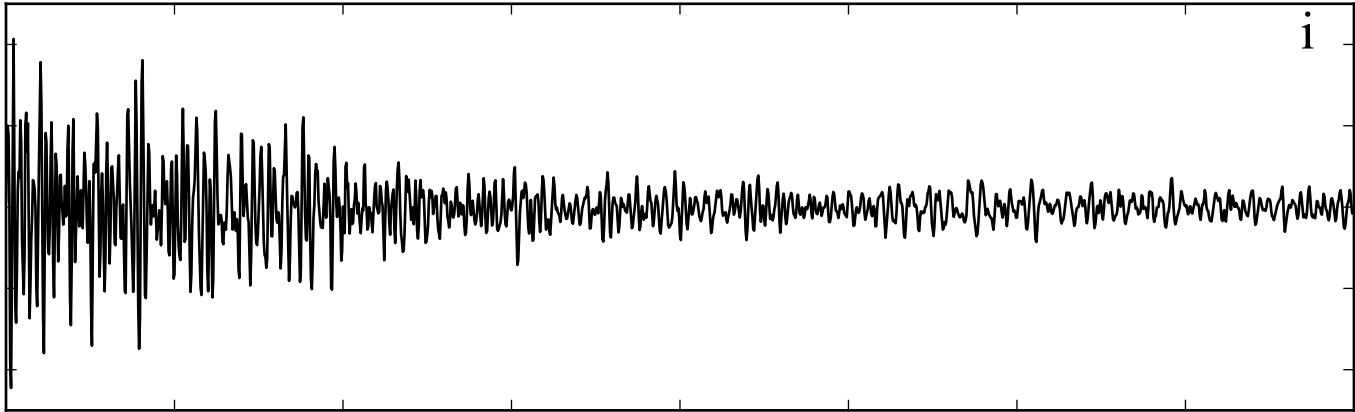
IU - MAJO - 00 - LH2 $\Delta/Az/Baz = 3.9^\circ / 235^\circ / 53^\circ$ $Srp=0.68$
 2011.084.11.31.24.069.IU.MAJO.00.LH2.SAC (2011/03/25)
 ScS_2 - ScS_1 travel time: 934.1 τ : 45.3 s
 Centroid: 38.780 142.170 45.9 km Mw 6.2
 $Q = 200$ $t^* = 4.7$ s
 Quality control: signal/noise ScS_1 : 11.91 ScS_2 4.29 Correlation : 0.938



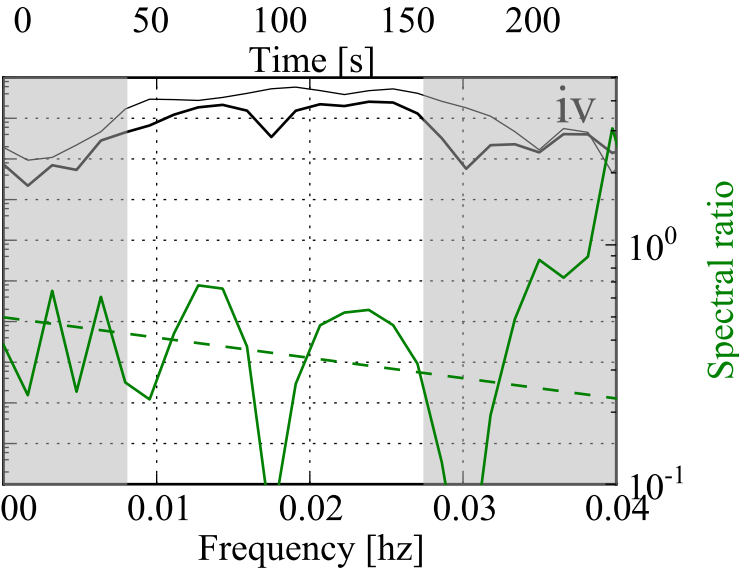
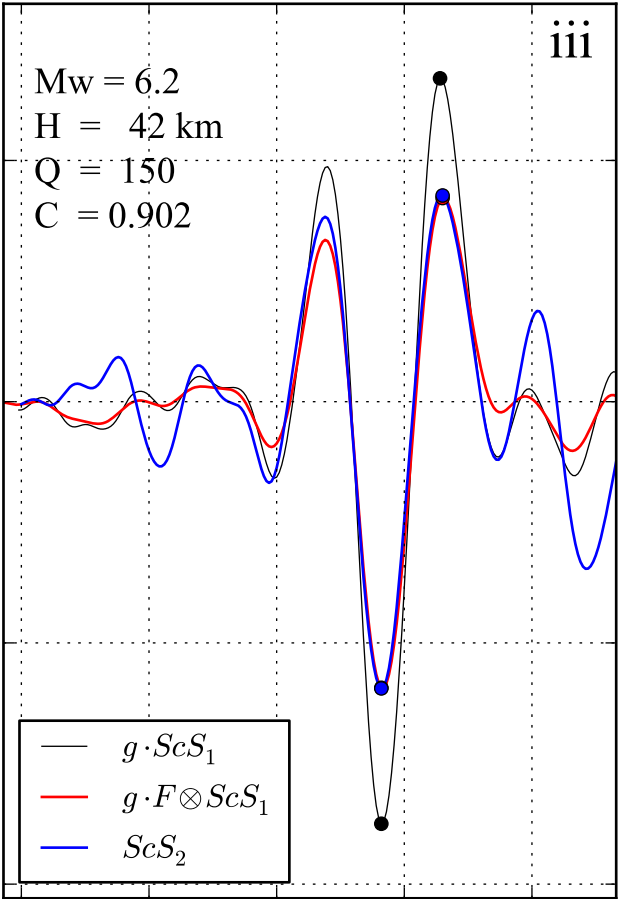
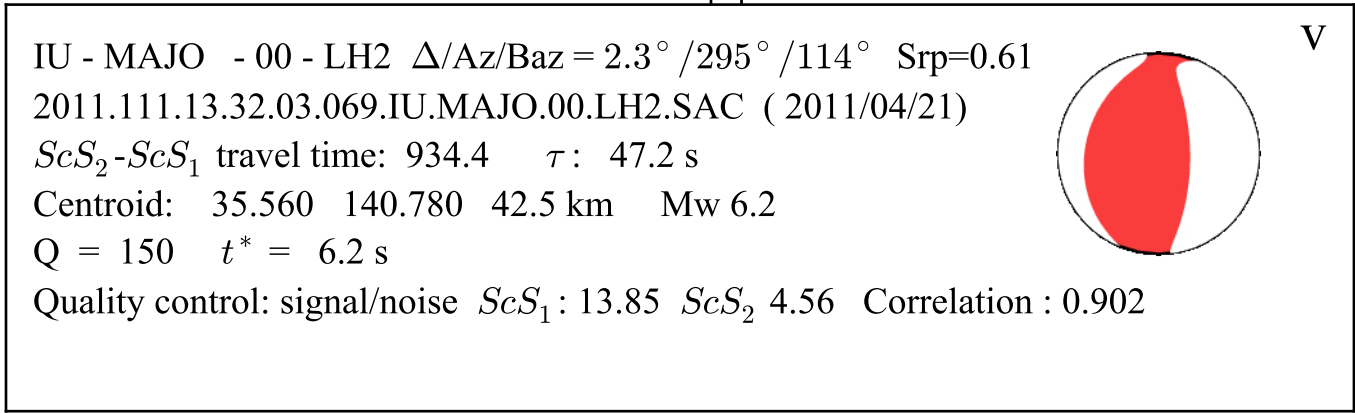


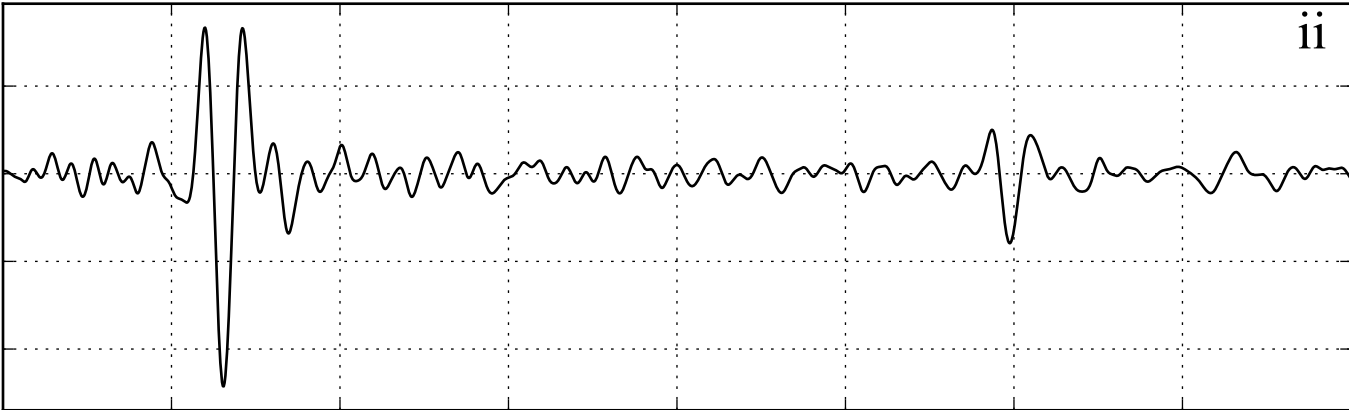
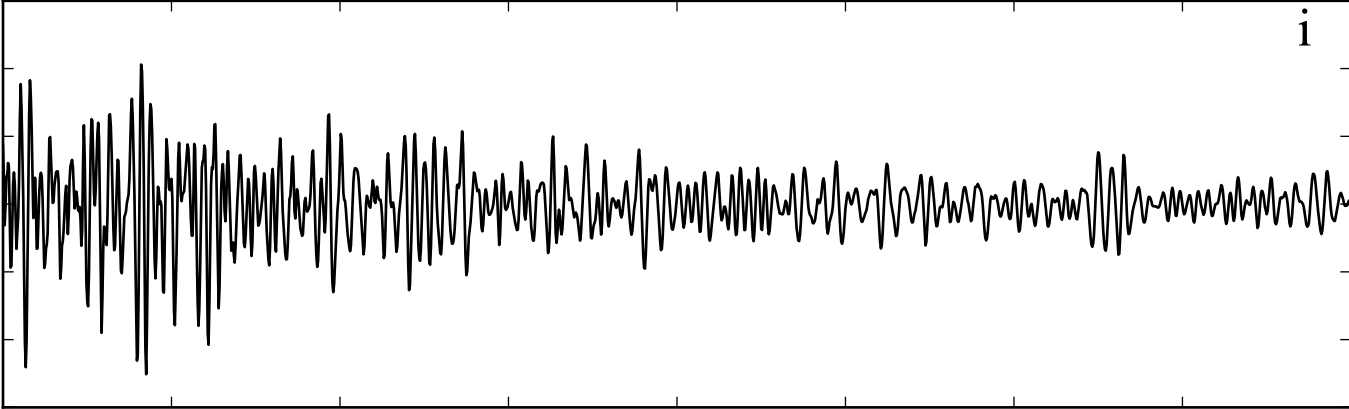
Time [s]



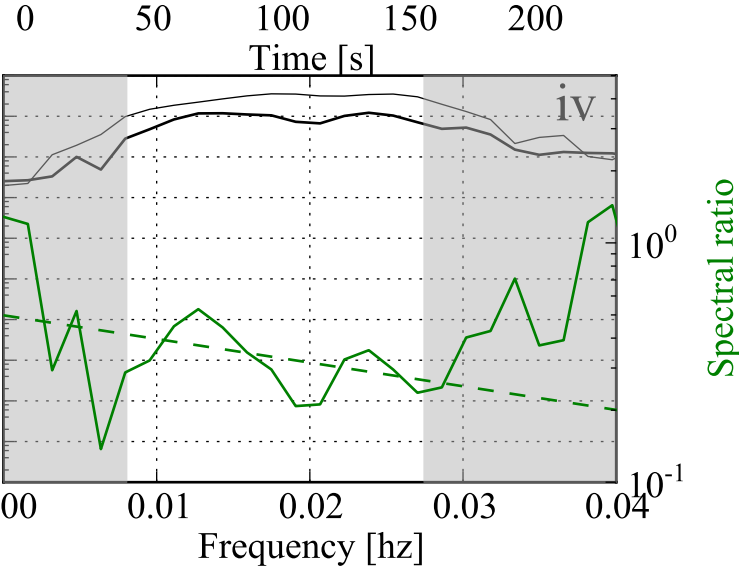
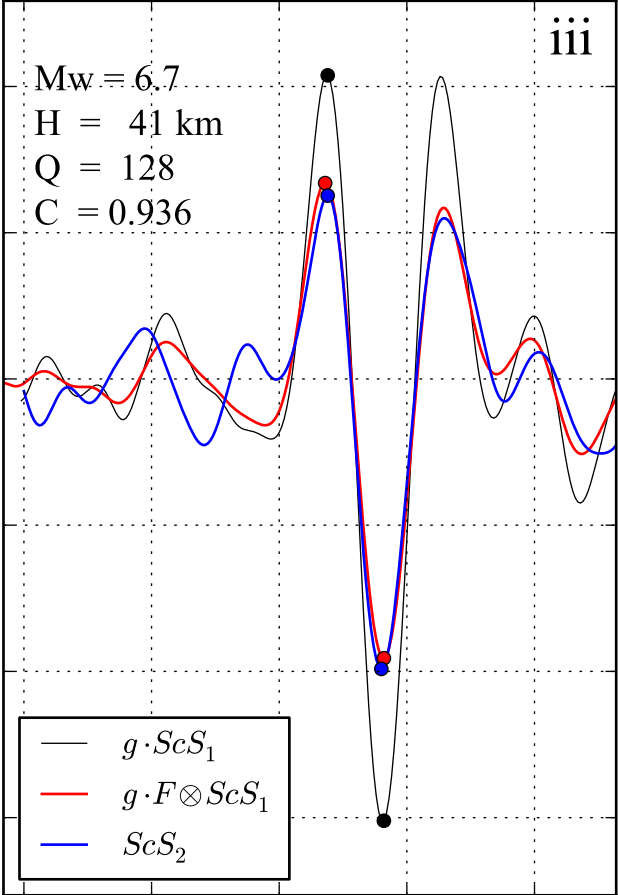
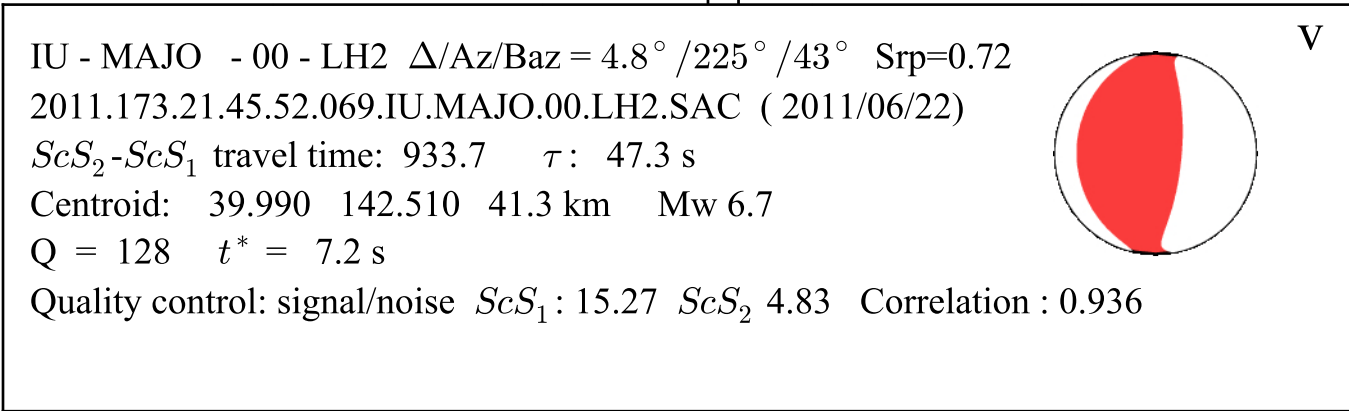


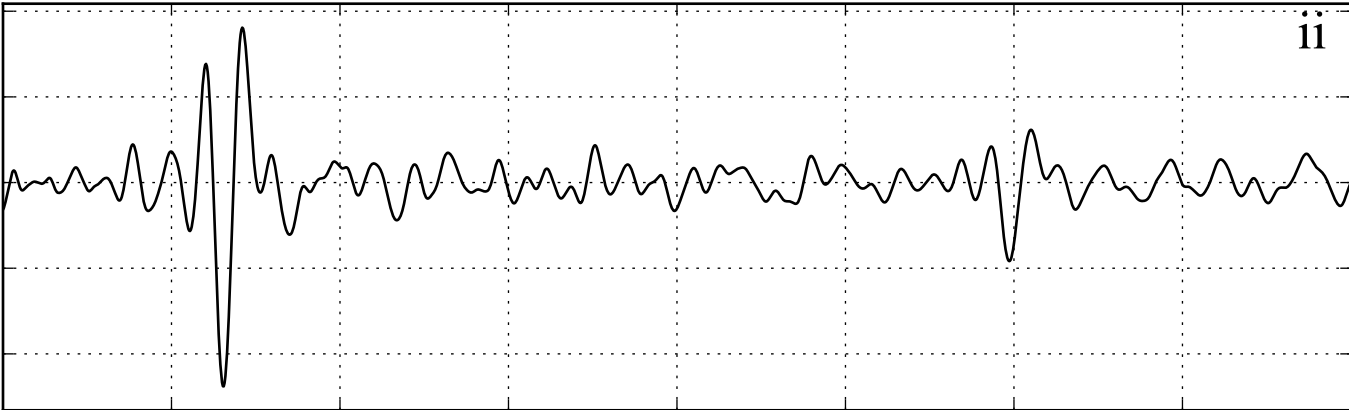
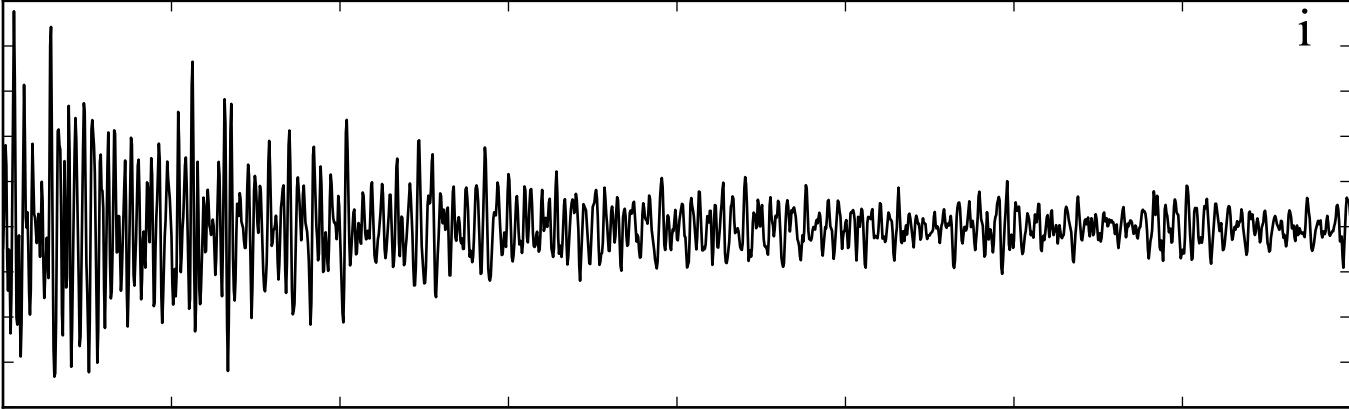
Time [s]



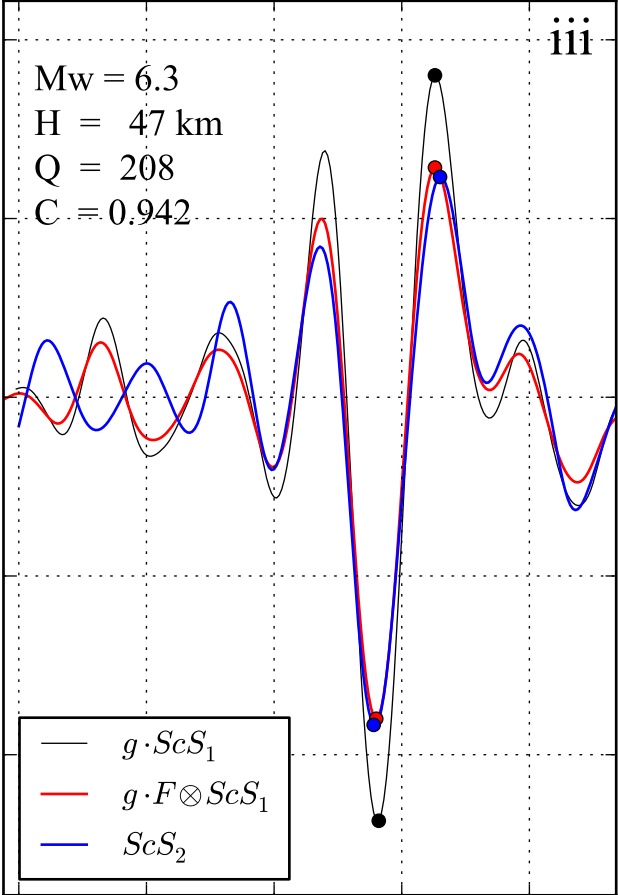
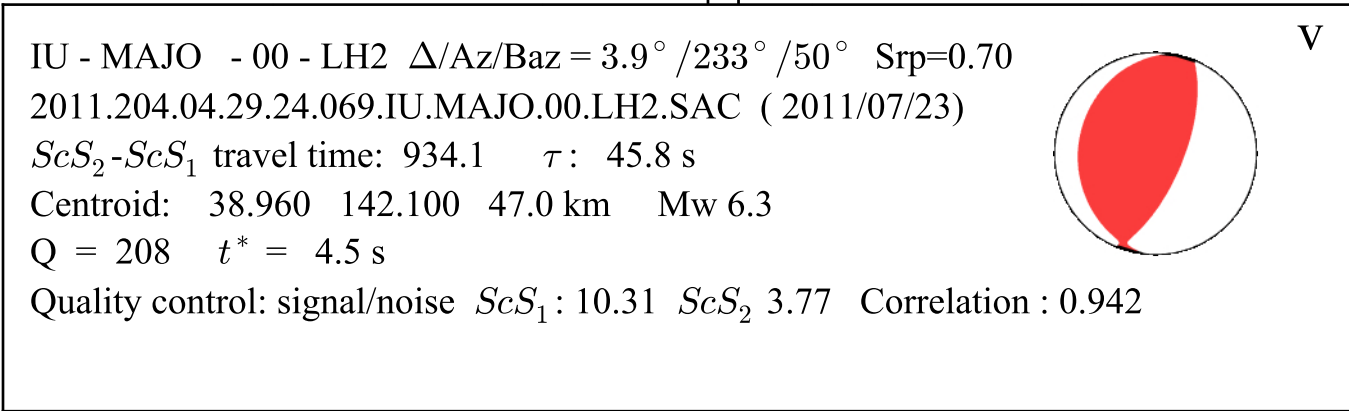


Time [s]

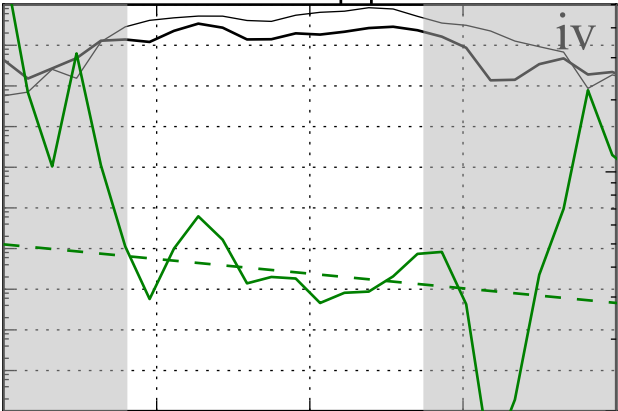




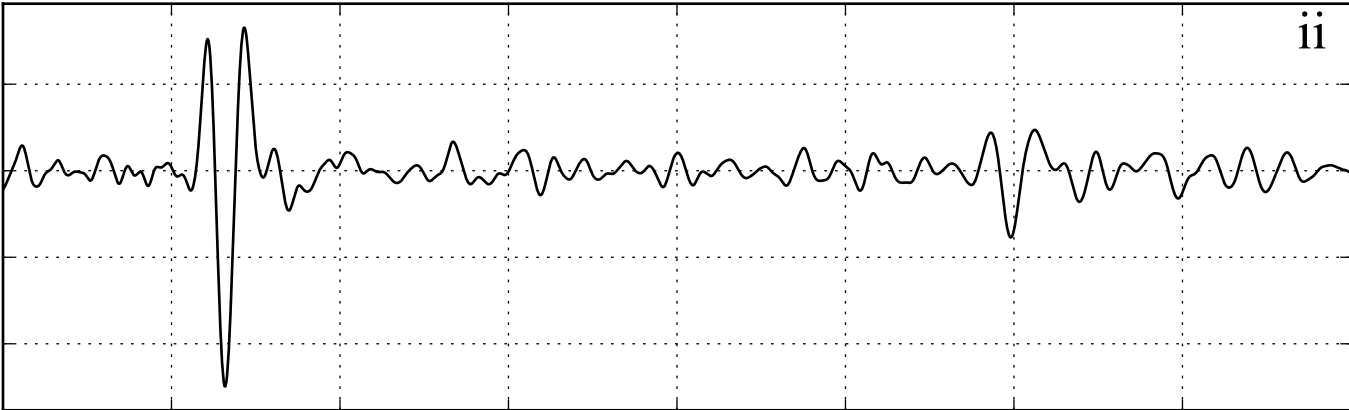
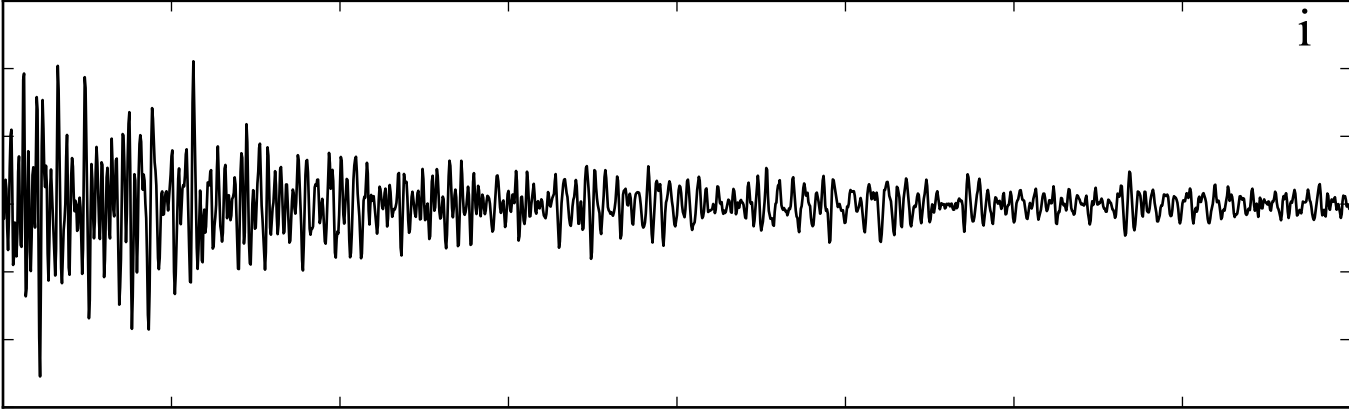
Time [s]



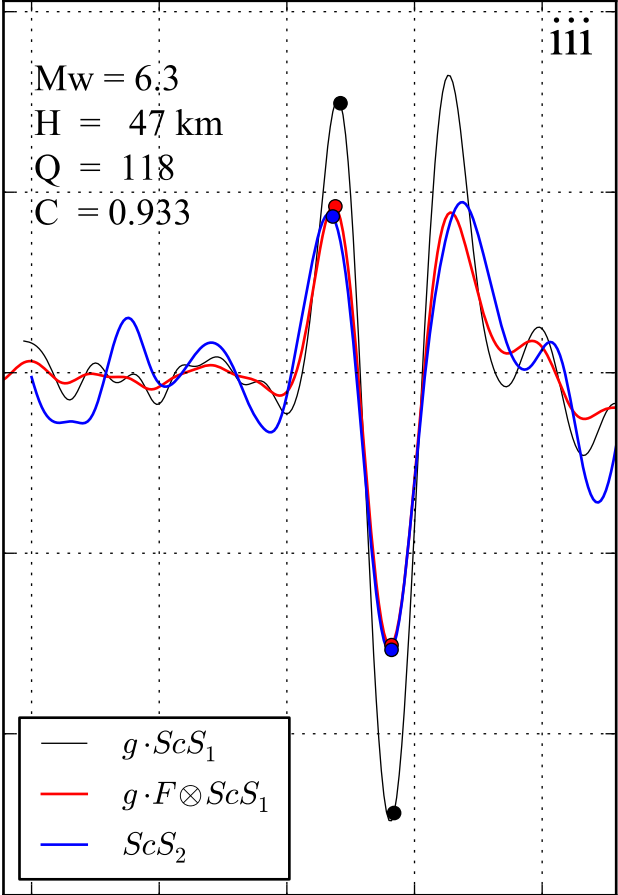
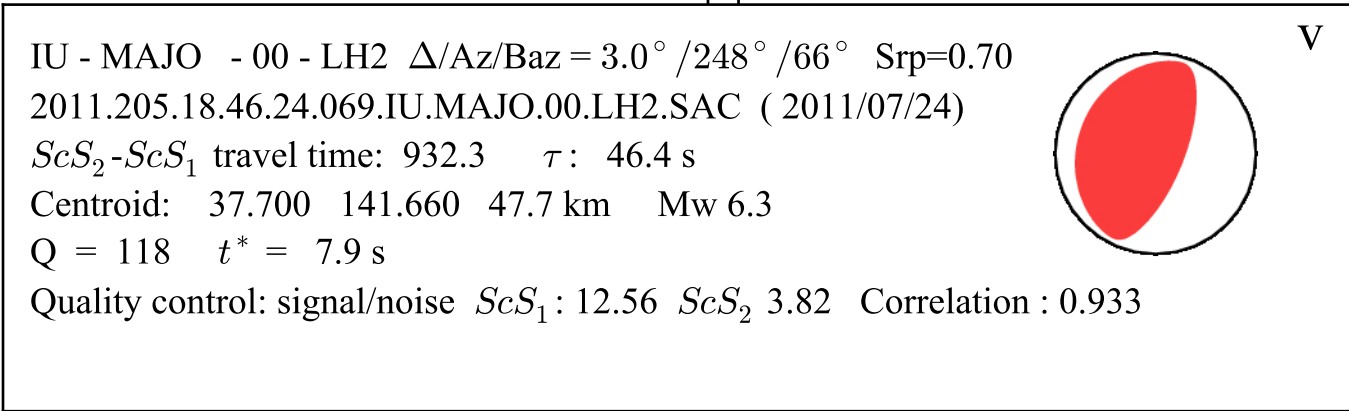
Time [s]



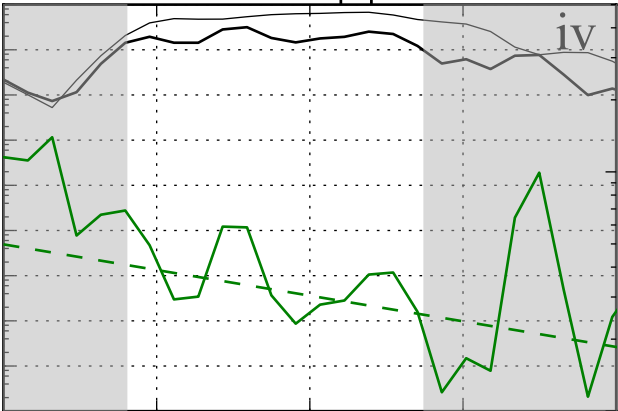
Frequency [hz]



Time [s]



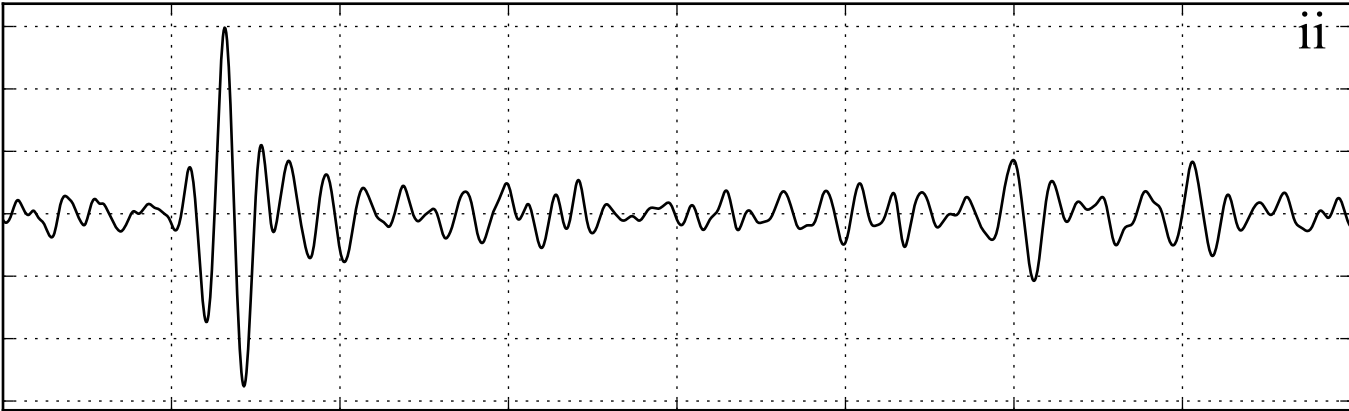
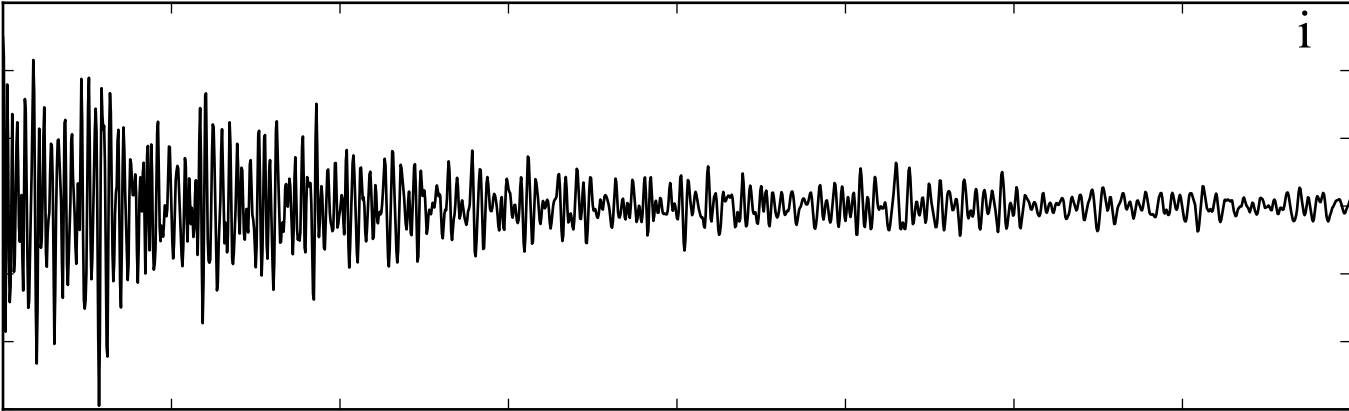
Time [s]



Frequency [hz]

Displacement spectrum

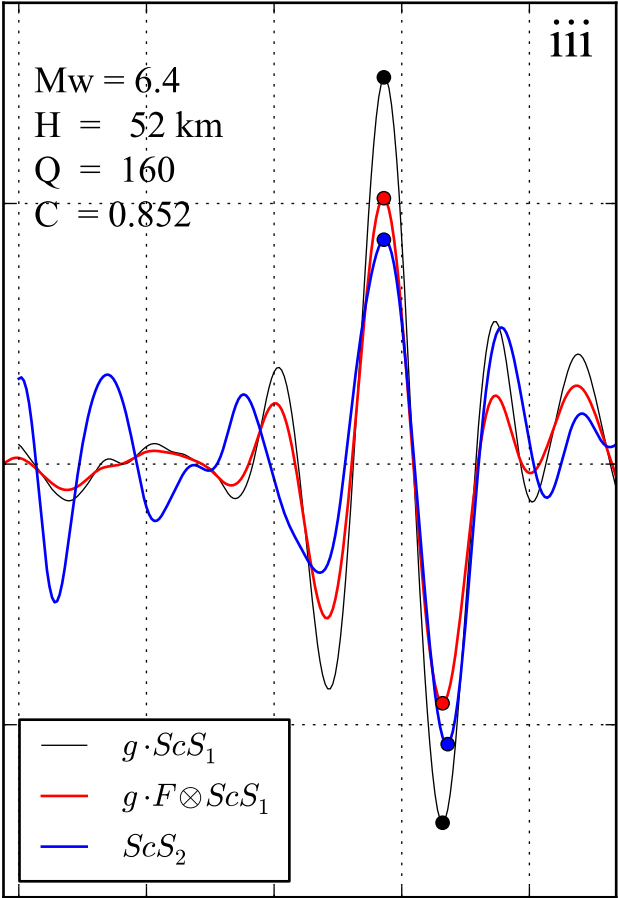

Spectral ratio



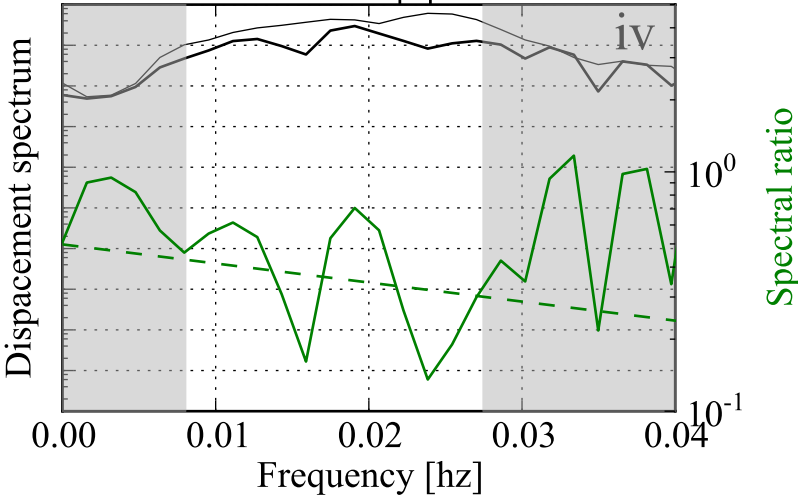
Time [s]

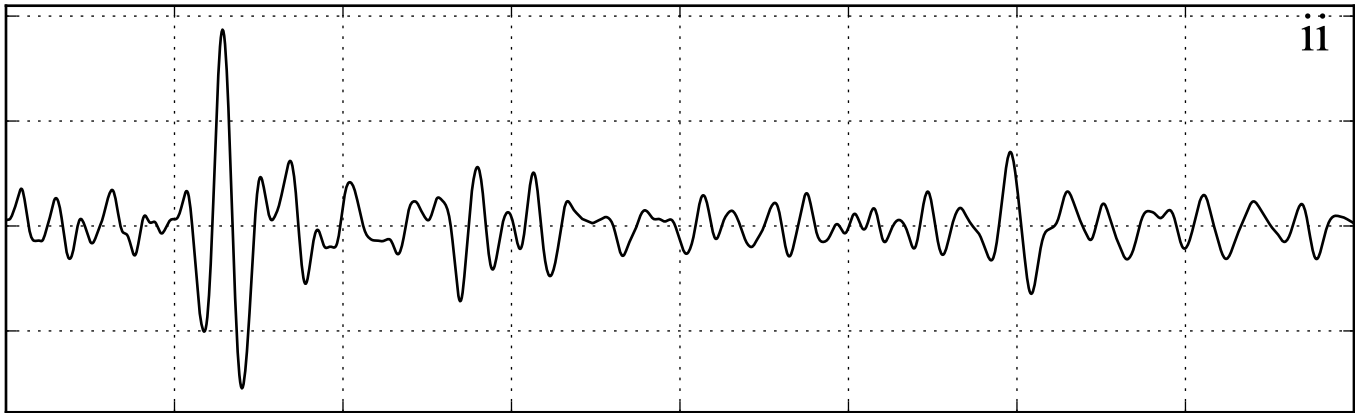
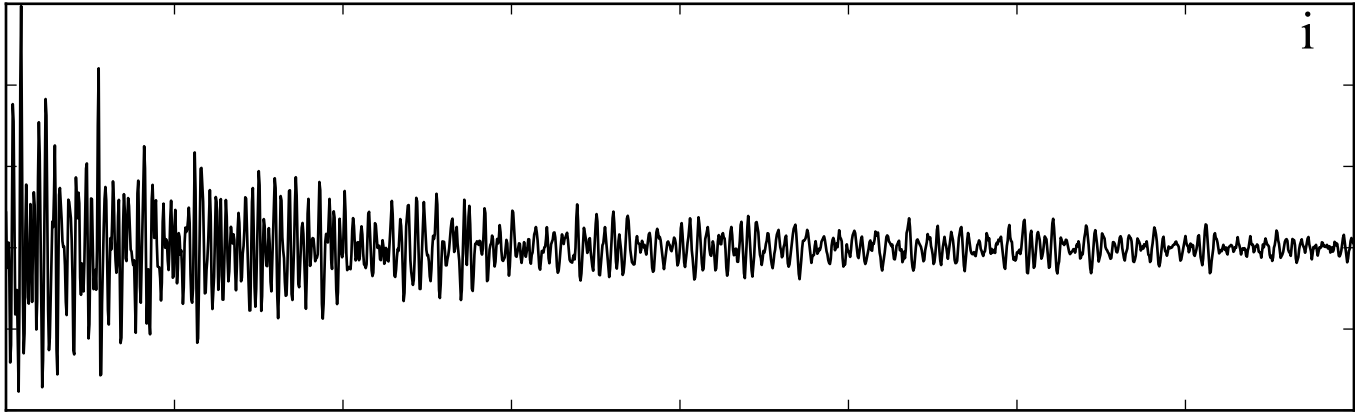
IU - MAJO - 10 - LH2 $\Delta/Az/Baz = 2.4^\circ/260^\circ/78^\circ$ $Srp=0.37$
2011.211.18.48.49.069.IU.MAJO.10.LH2.SAC (2011/07/30)
 ScS_2 - ScS_1 travel time: 935.4 τ : 45.4 s
Centroid: 37.000 141.160 52.7 km Mw 6.4
 $Q = 160$ $t^* = 5.8$ s
Quality control: signal/noise ScS_1 : 8.76 ScS_2 2.95 Correlation : 0.852

v

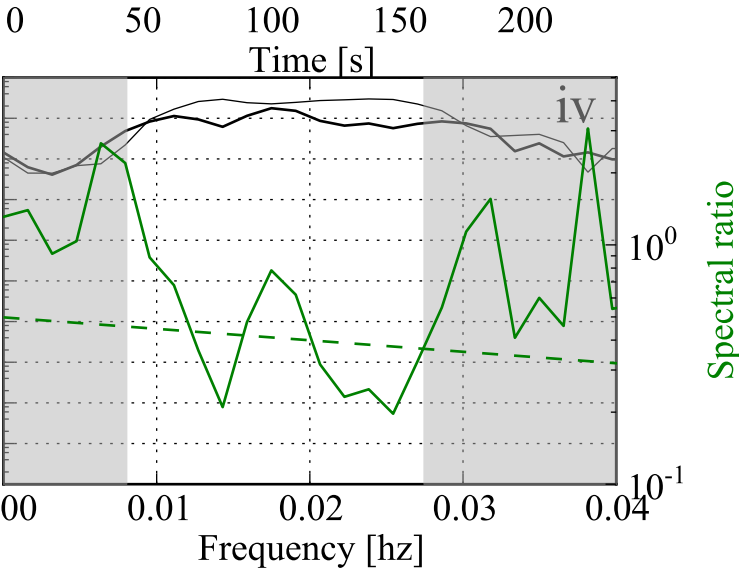
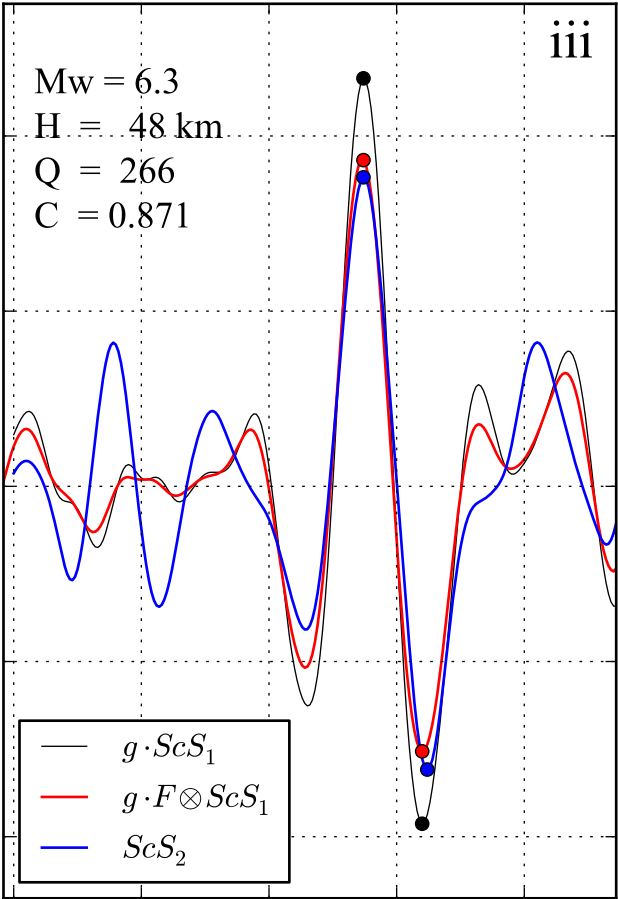
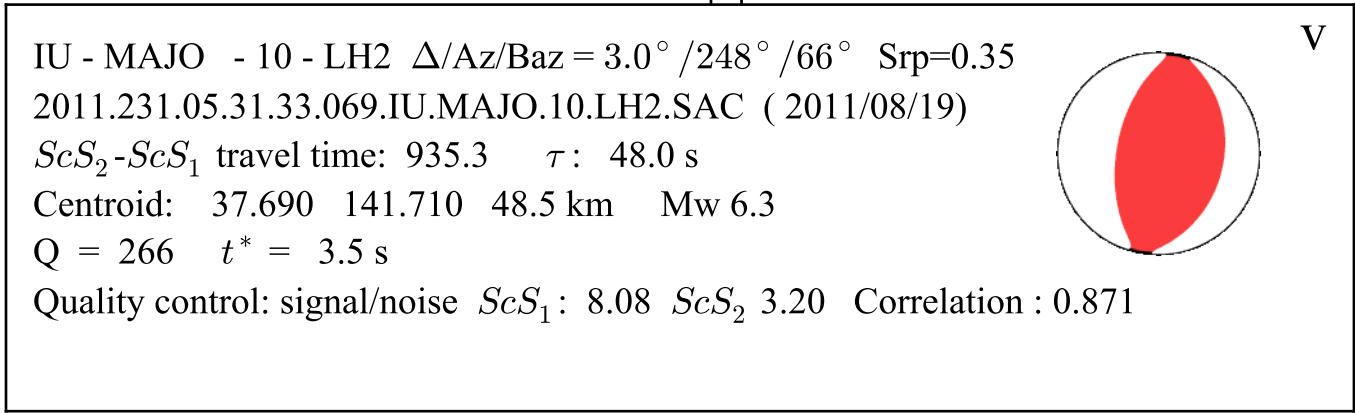


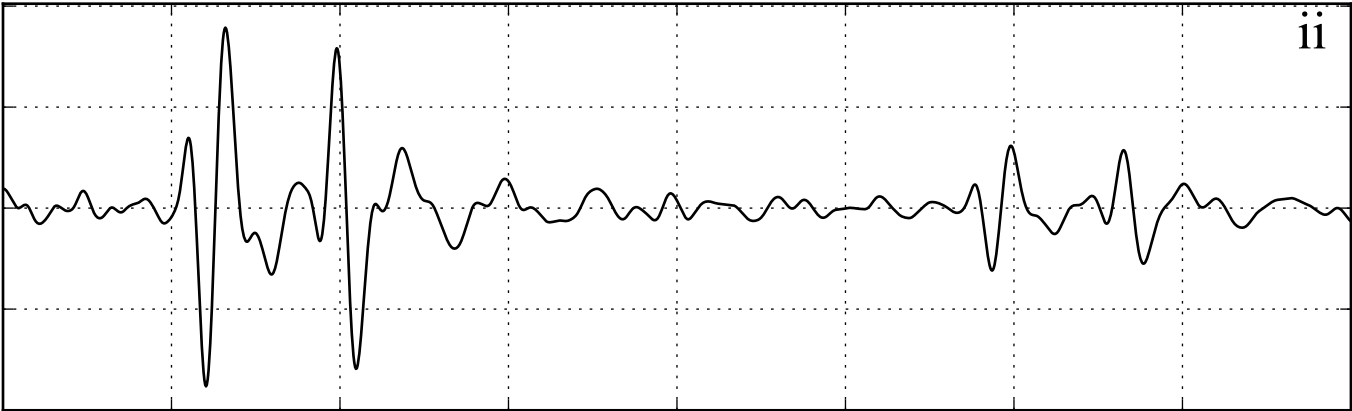
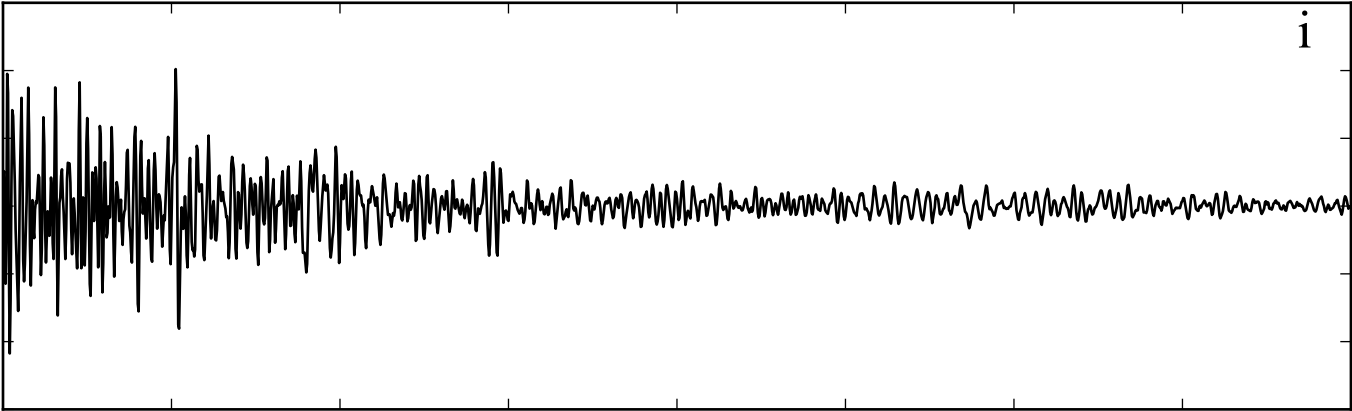
Time [s]





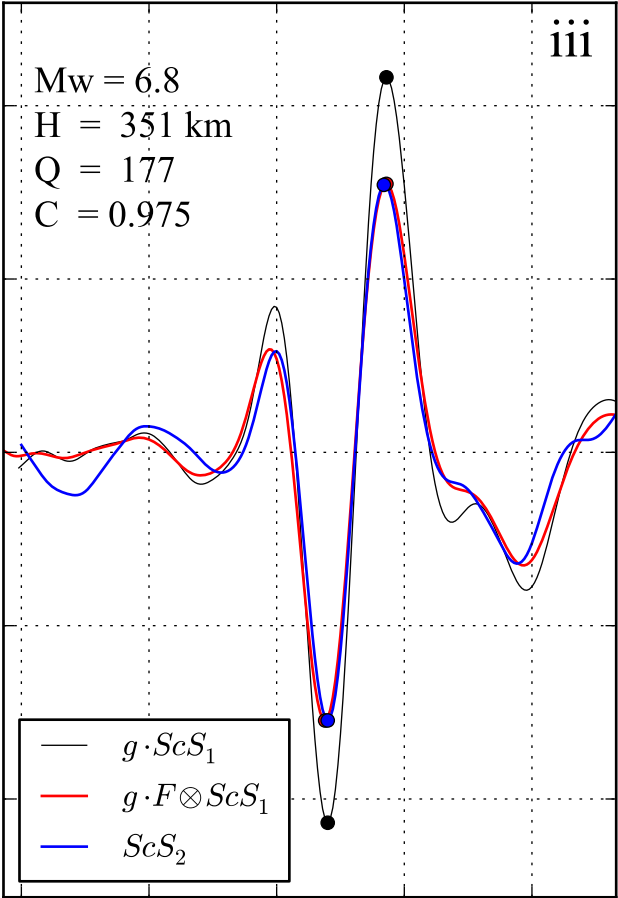
Time [s]



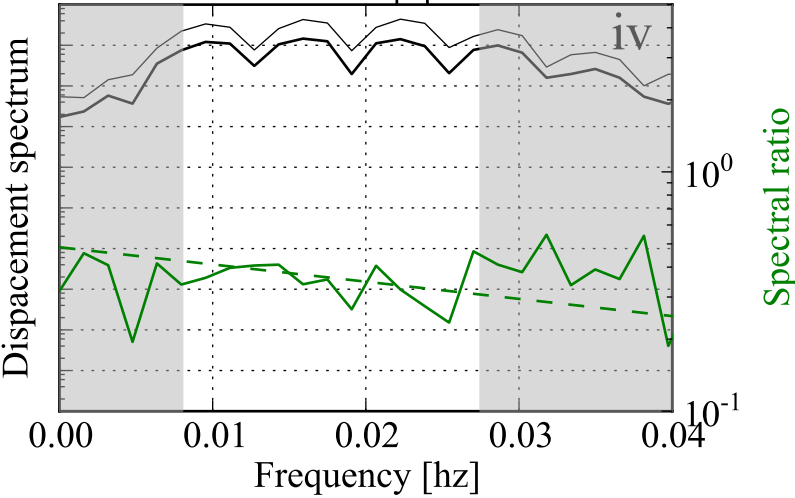


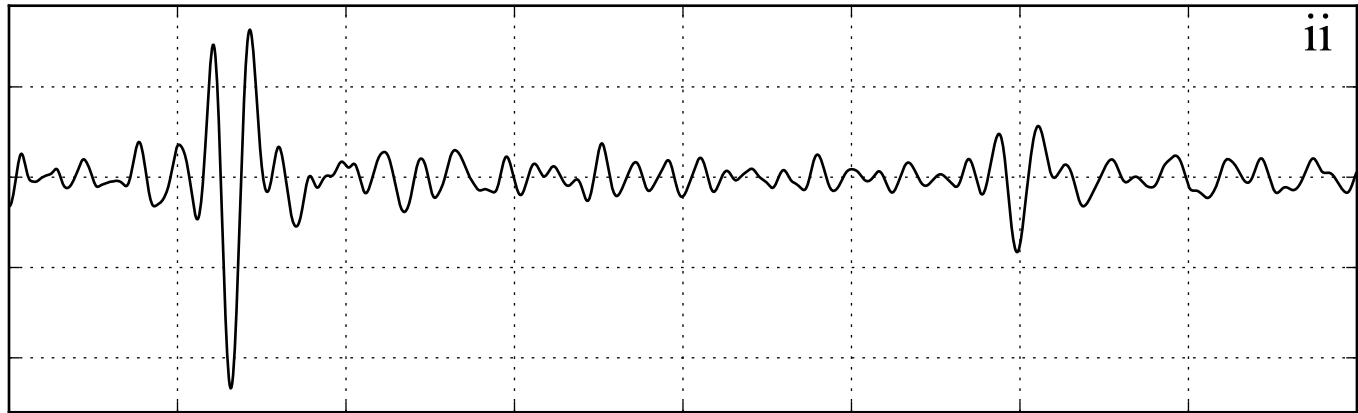
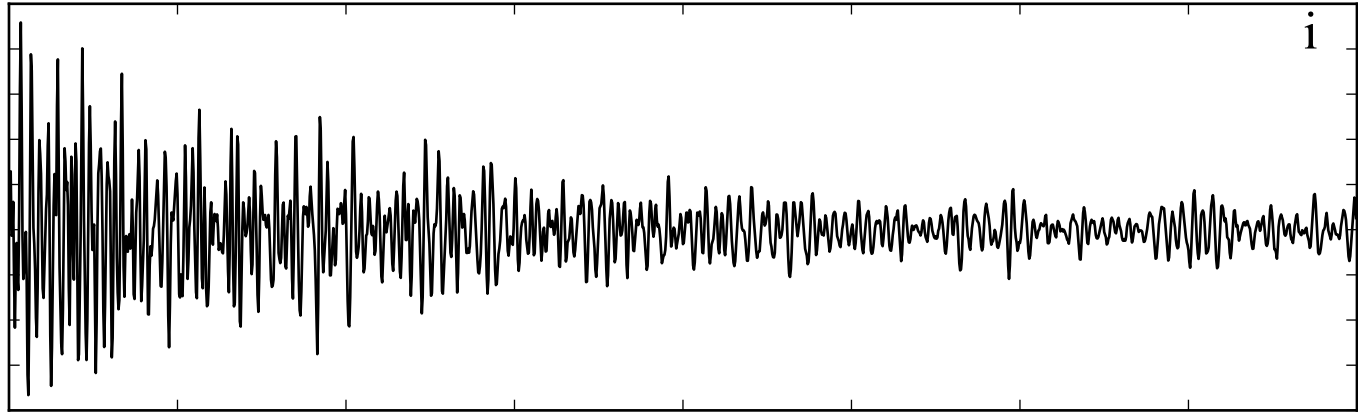
Time [s]

IU - MAJO - 00 - LH2 $\Delta/Az/Baz = 4.9^\circ / 0^\circ / 180^\circ$ $Srp=0.93$
2012.001.05.22.56.069.IU.MAJO.00.LH2.SAC (2012/01/01)
 ScS_2-ScS_1 travel time: 933.4 τ : 50.1 s
Centroid: 31.610 138.170 352.0 km Mw 6.8
 $Q = 177$ $t^* = 5.3$ s
Quality control: signal/noise ScS_1 : 19.63 ScS_2 6.83 Correlation : 0.975

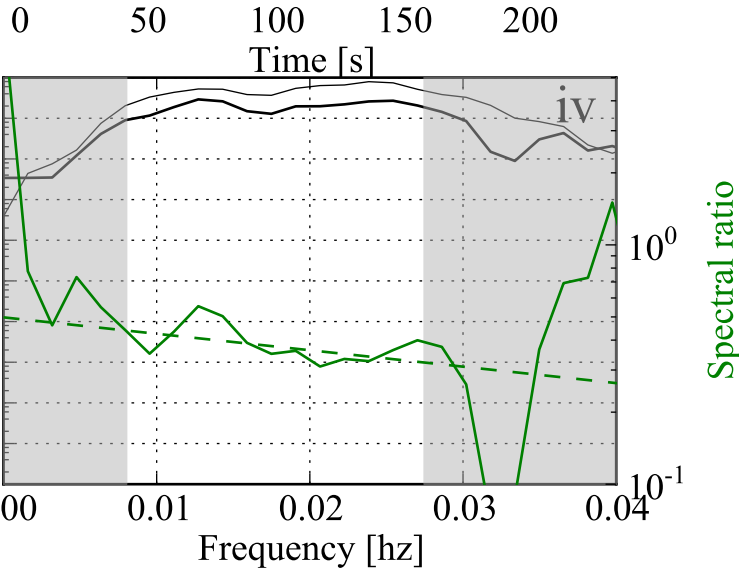
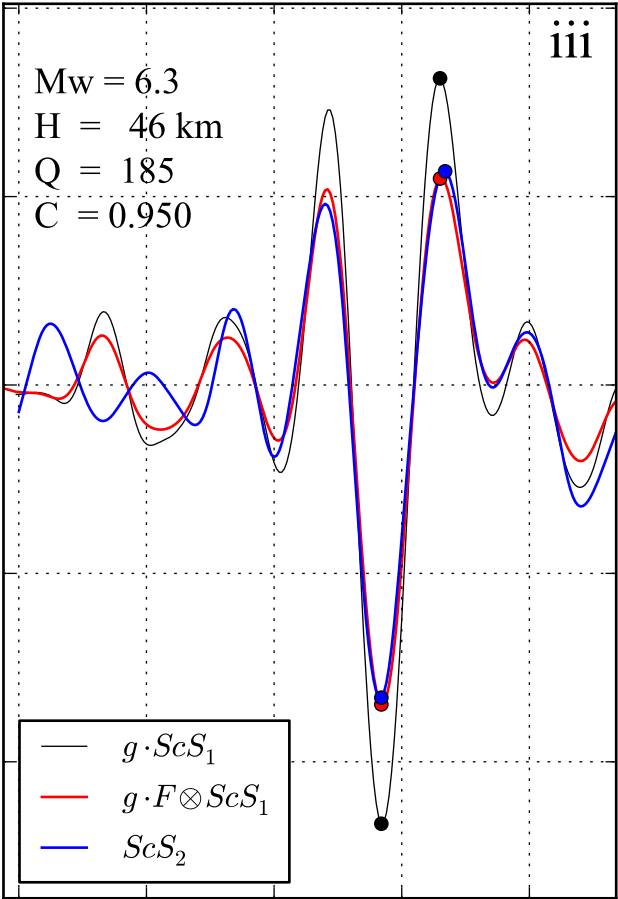
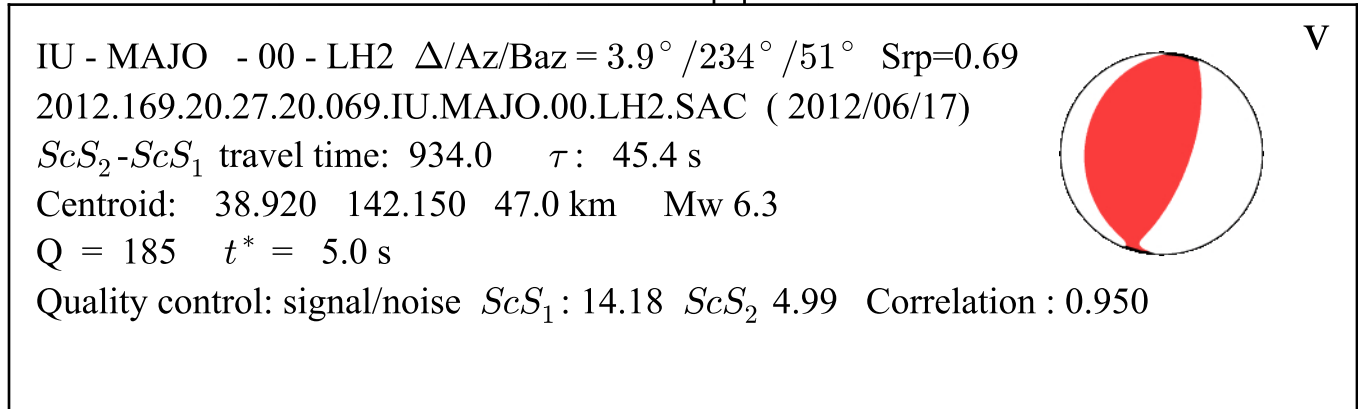


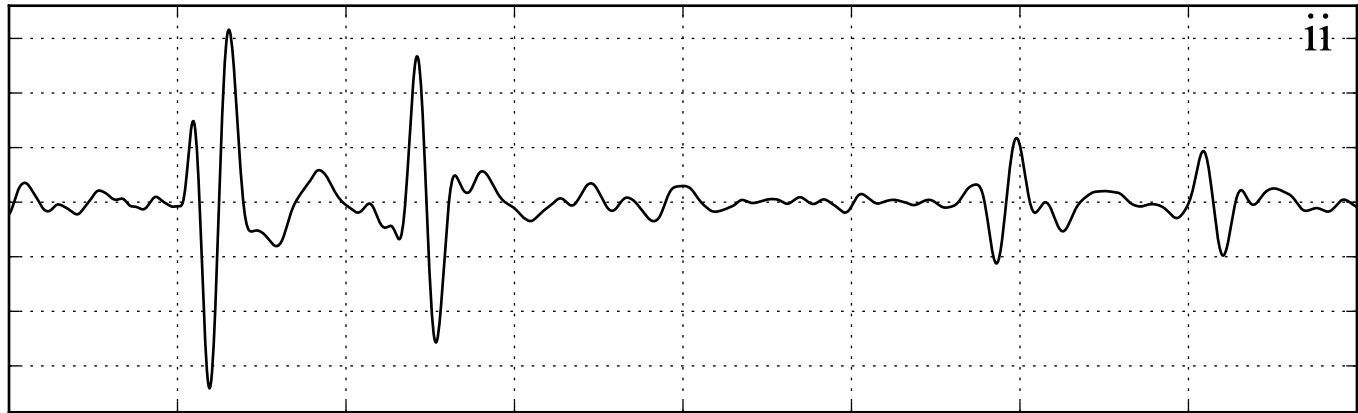
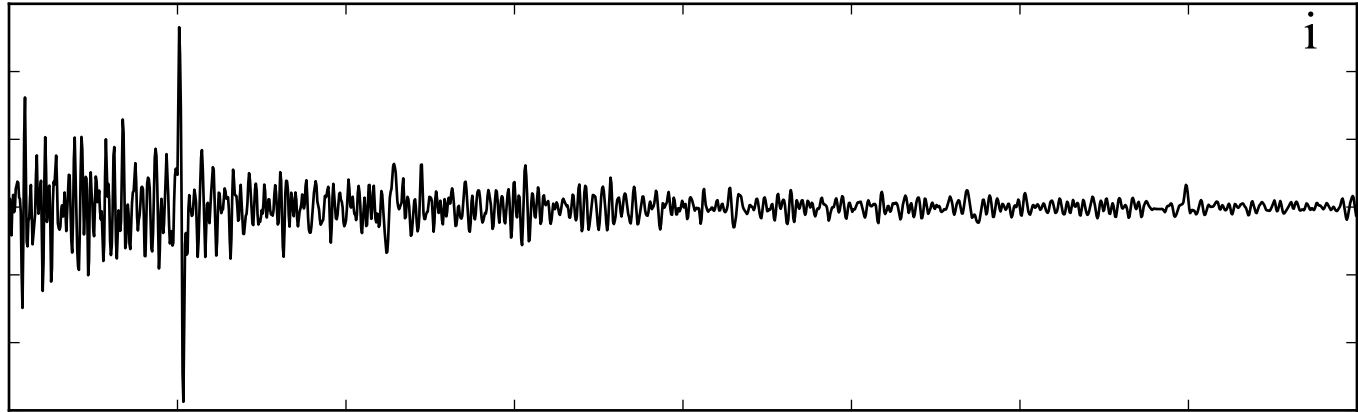
Time [s]



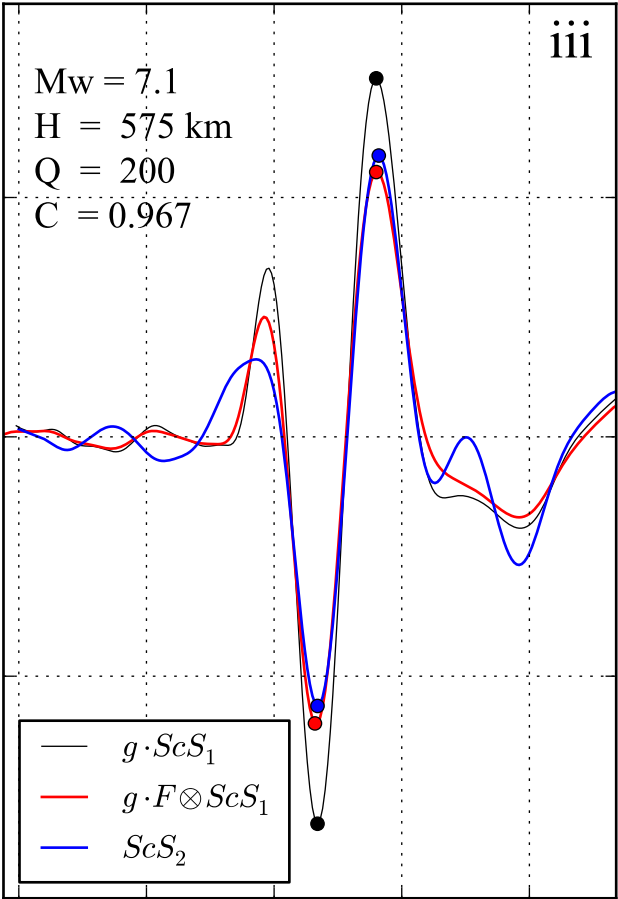
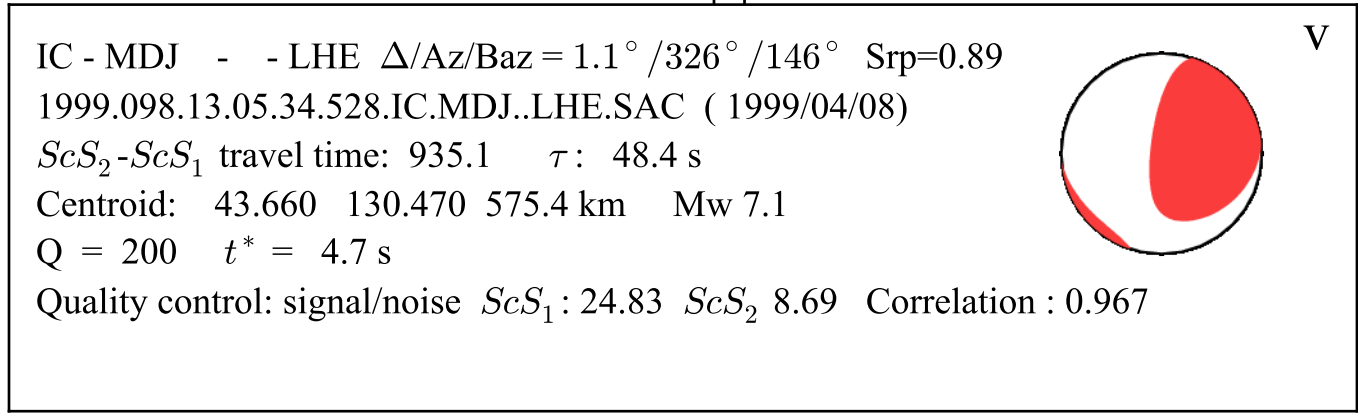


Time [s]

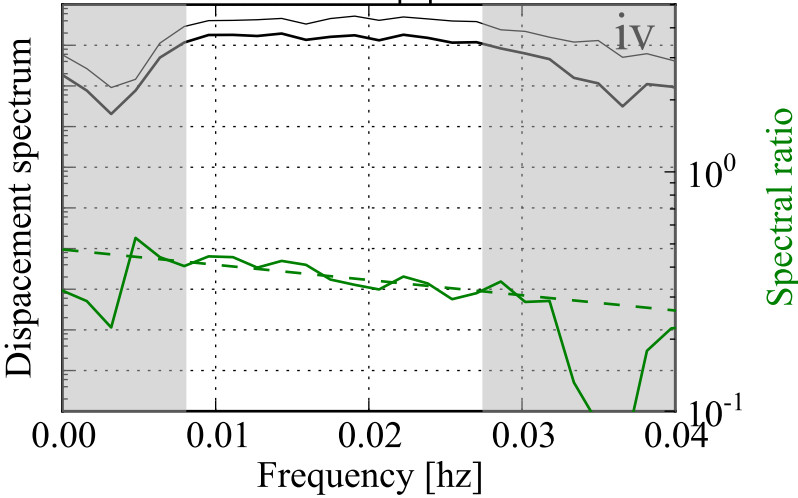


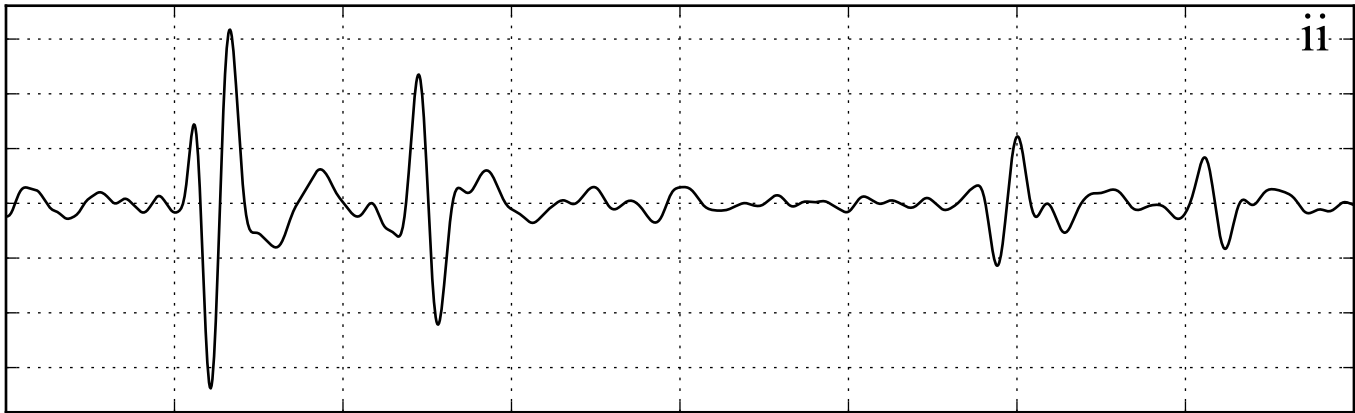
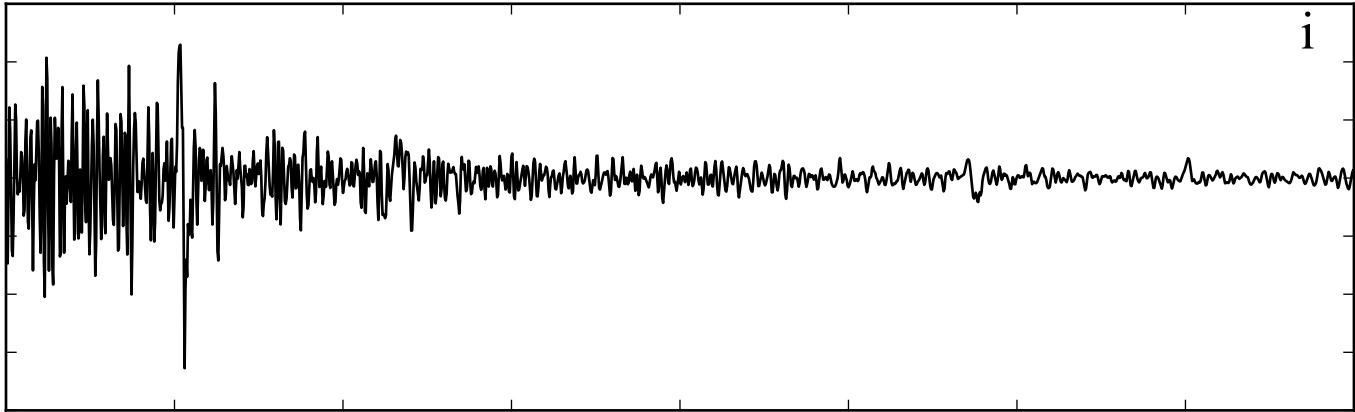


Time [s]

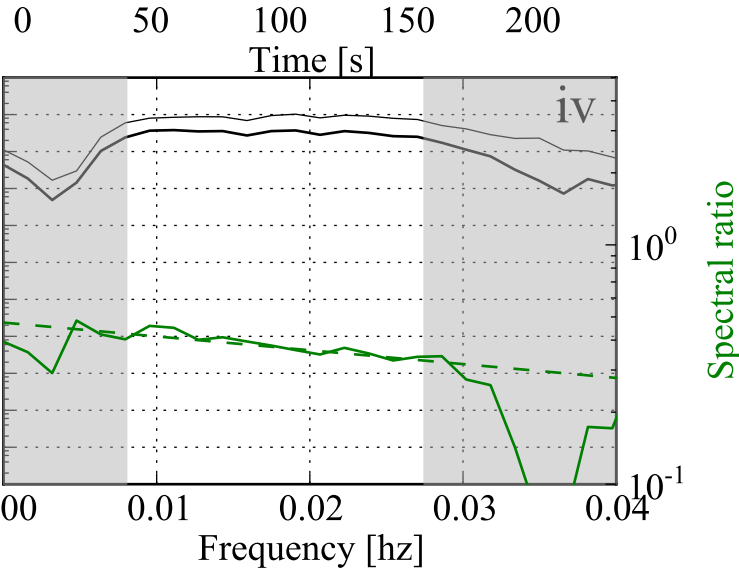
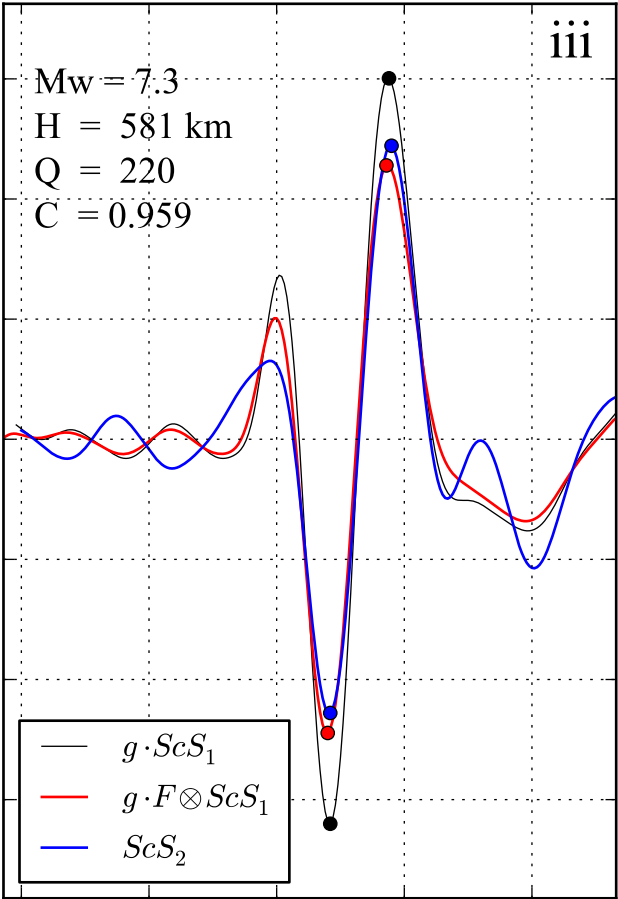
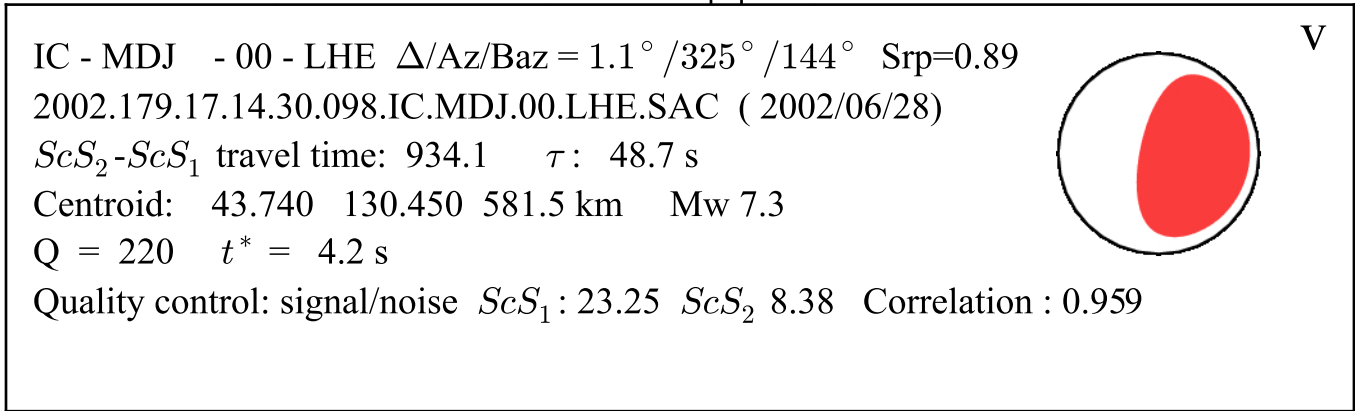


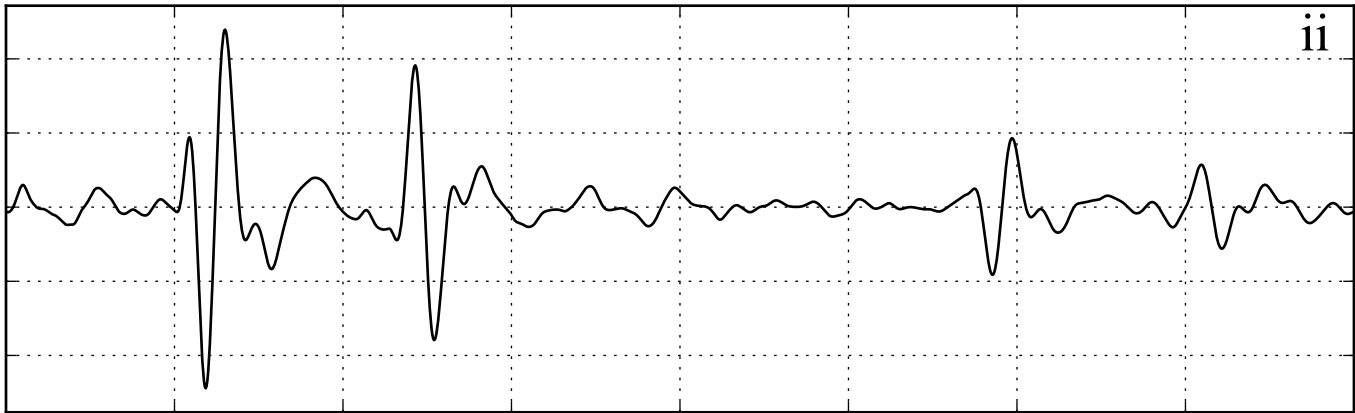
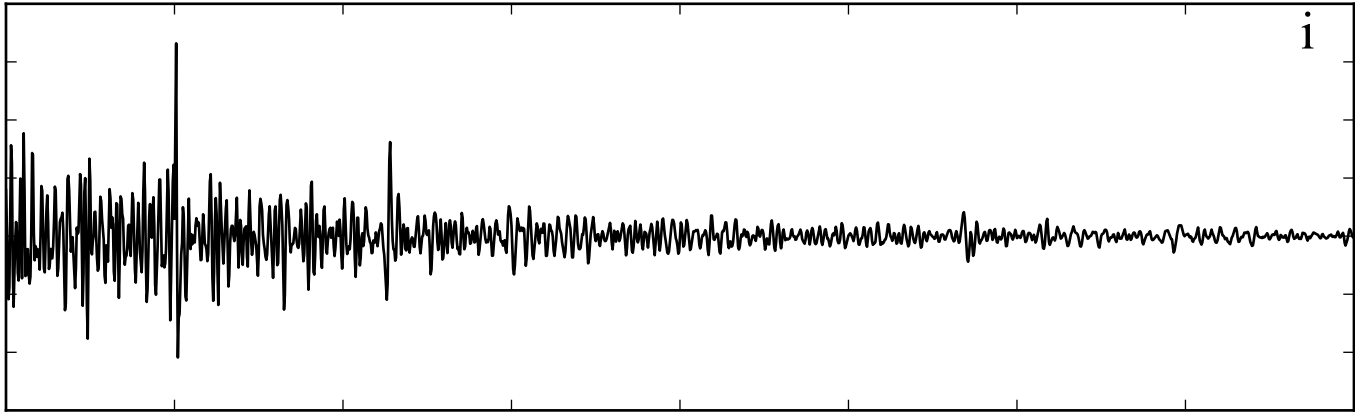
Time [s]



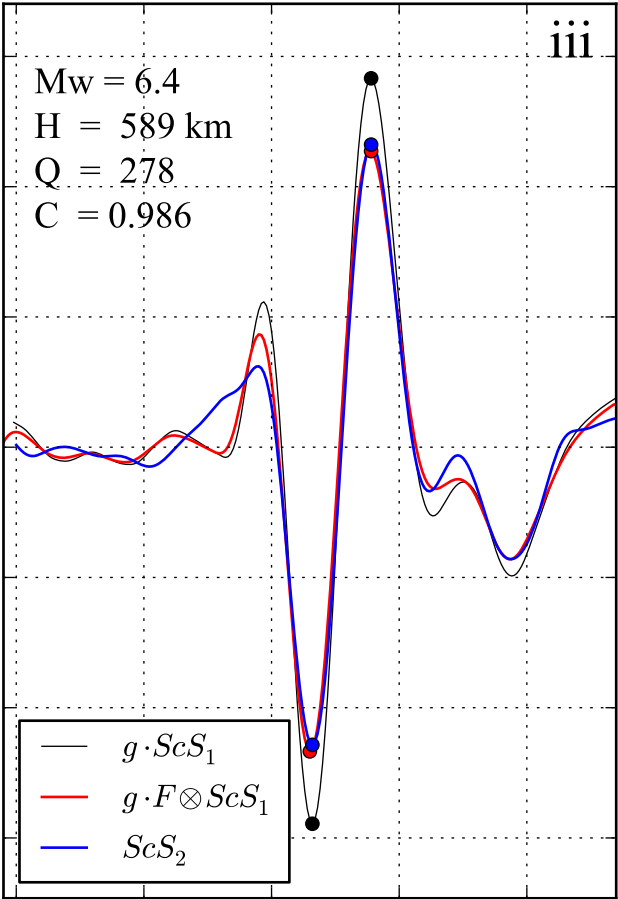
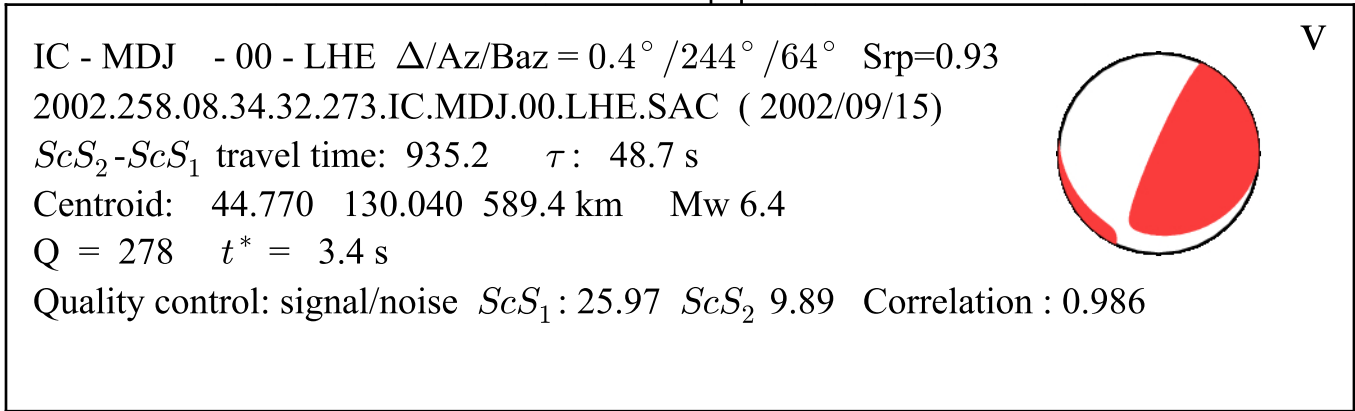


Time [s]

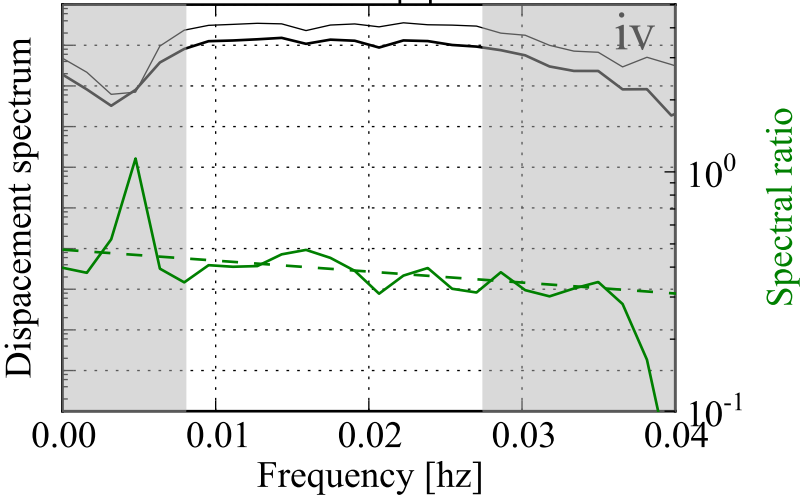


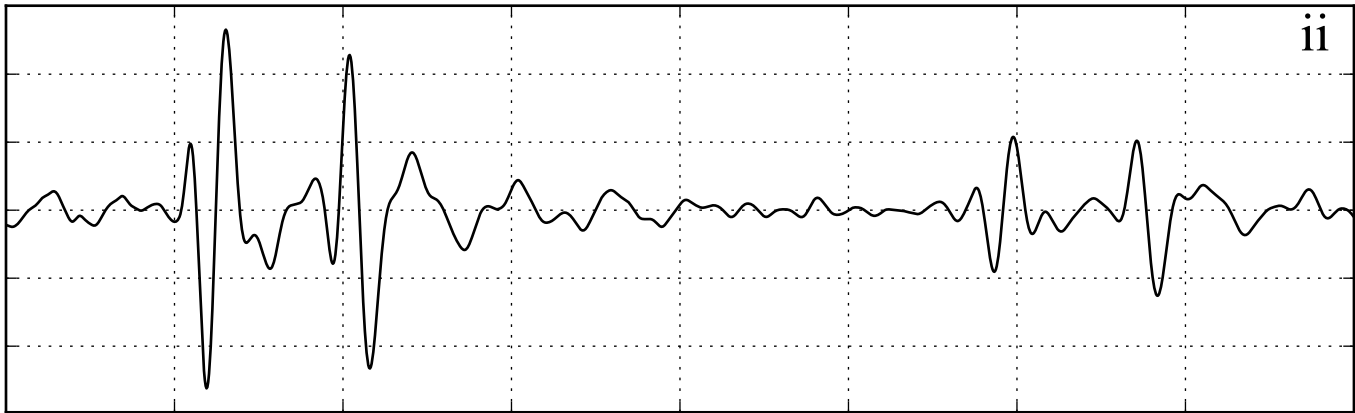
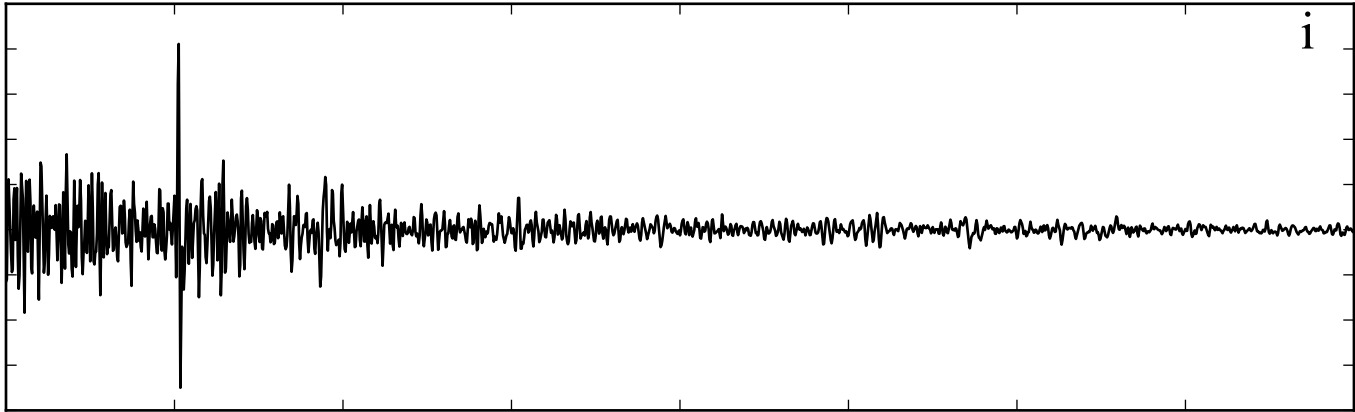


Time [s]

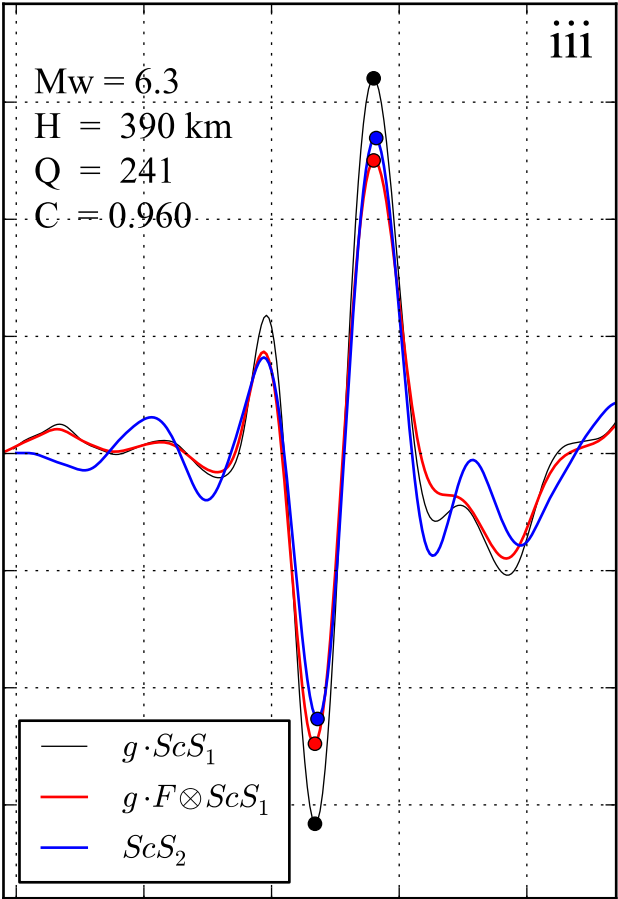
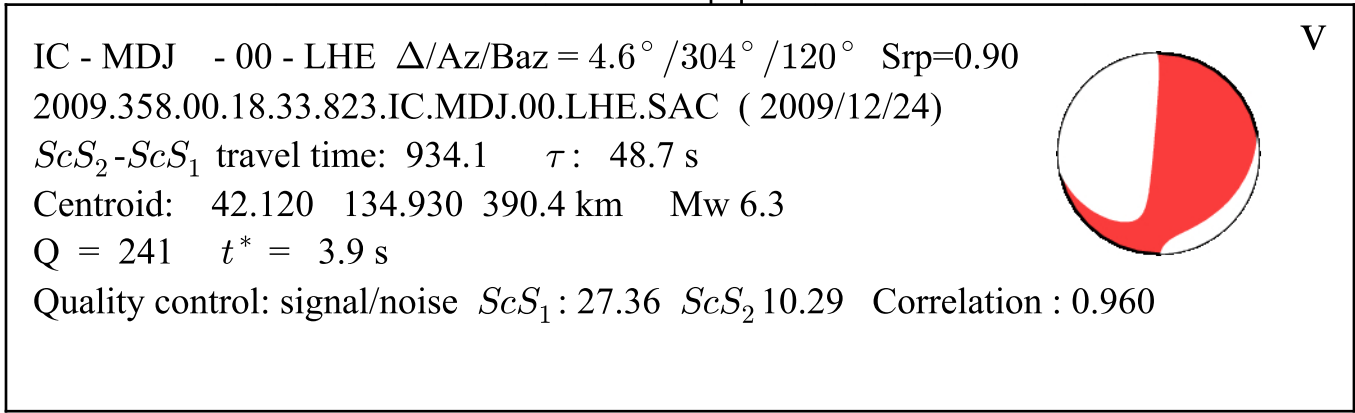


Time [s]

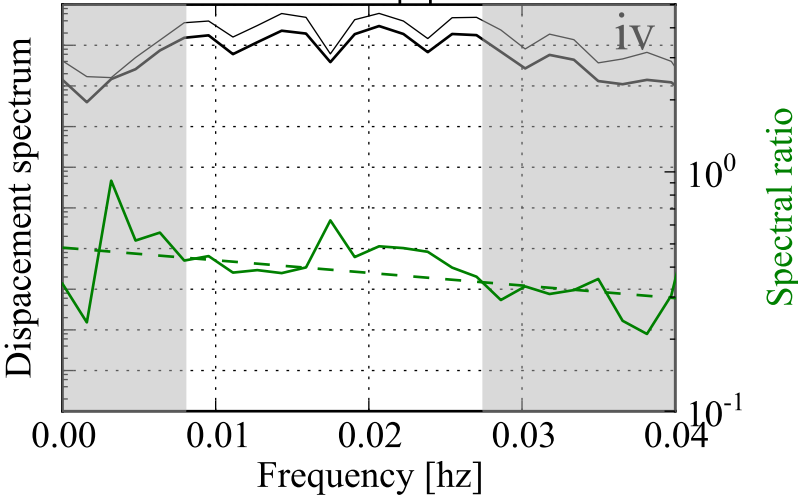


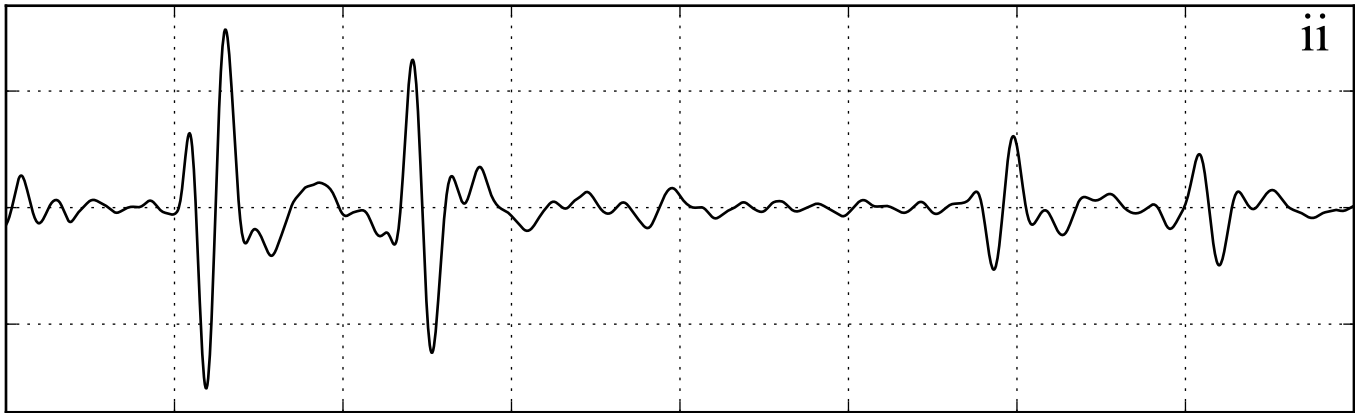
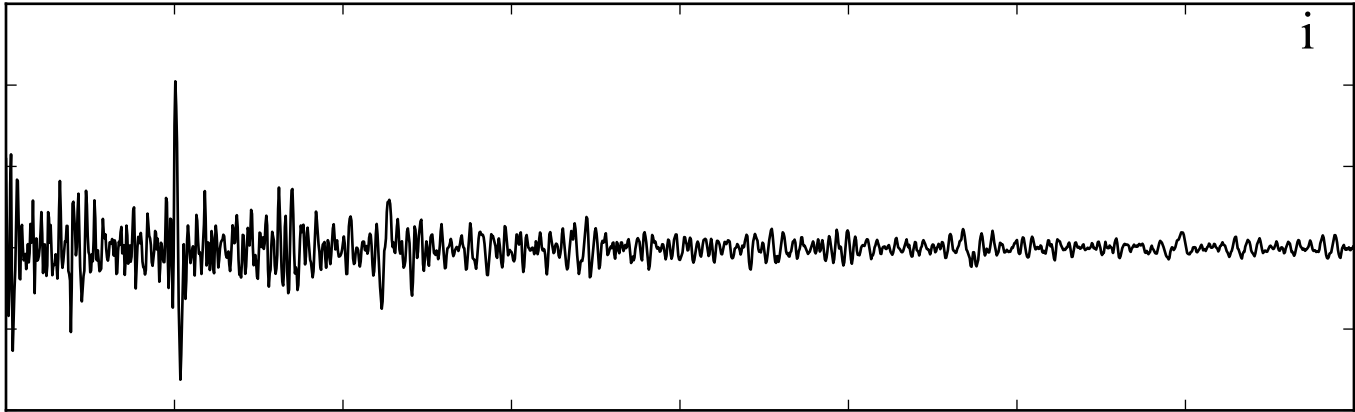


Time [s]

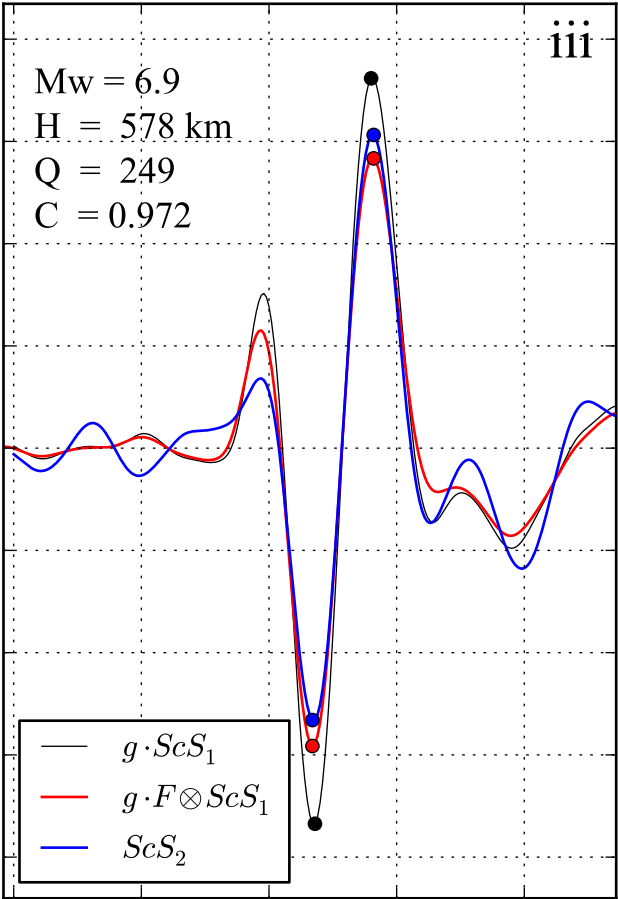
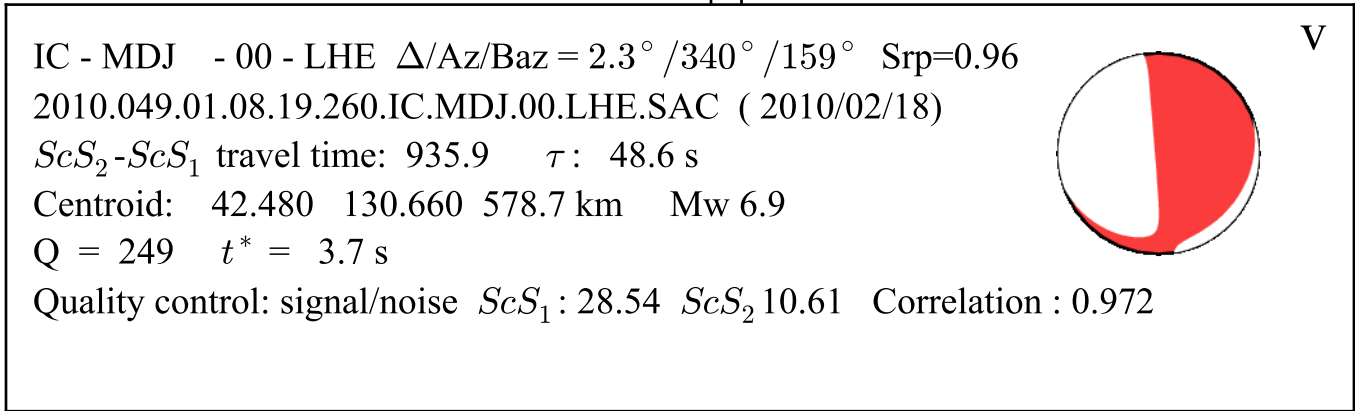


Time [s]

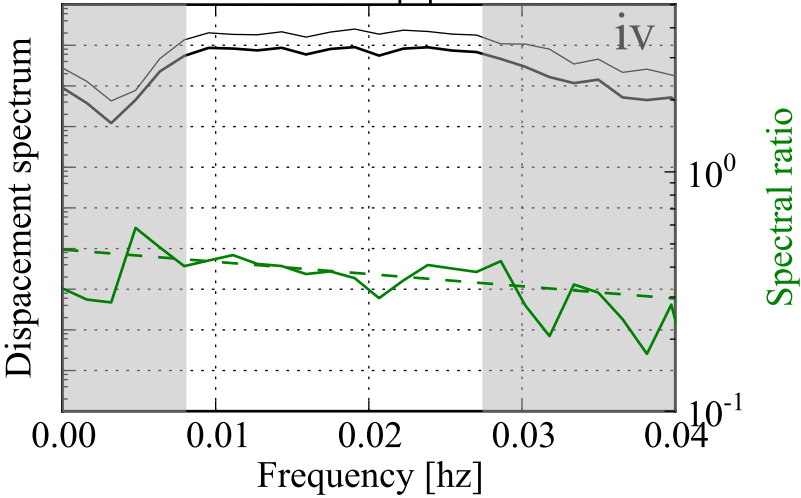


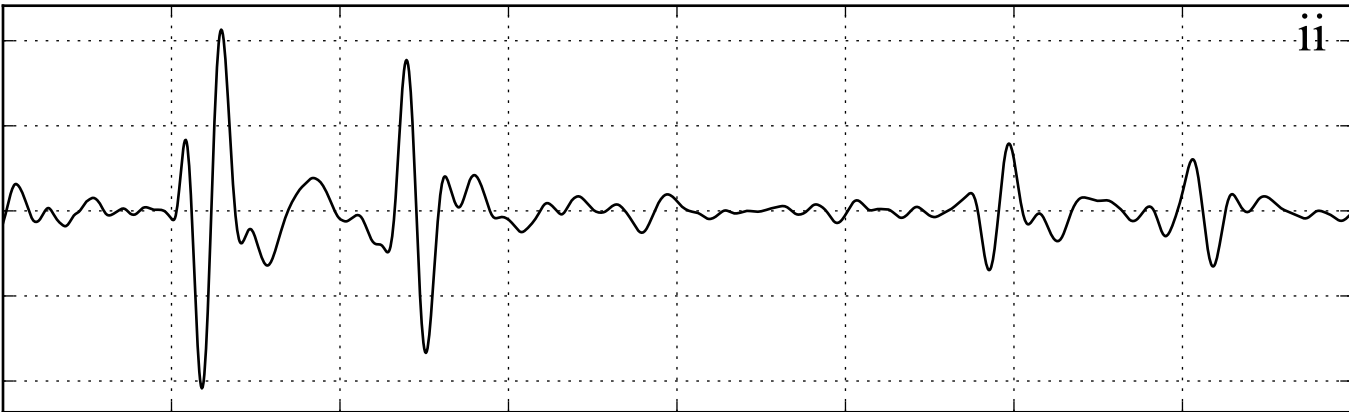
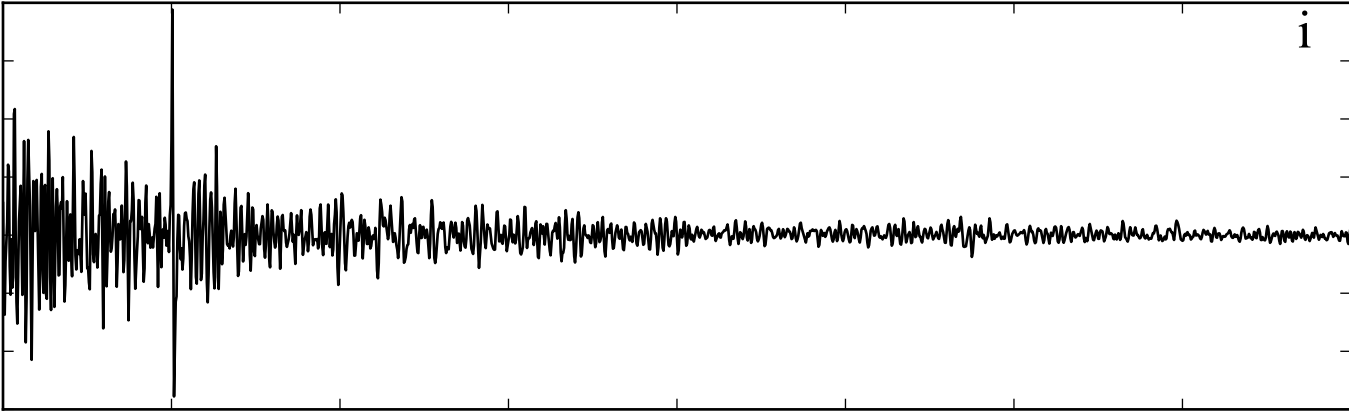


Time [s]

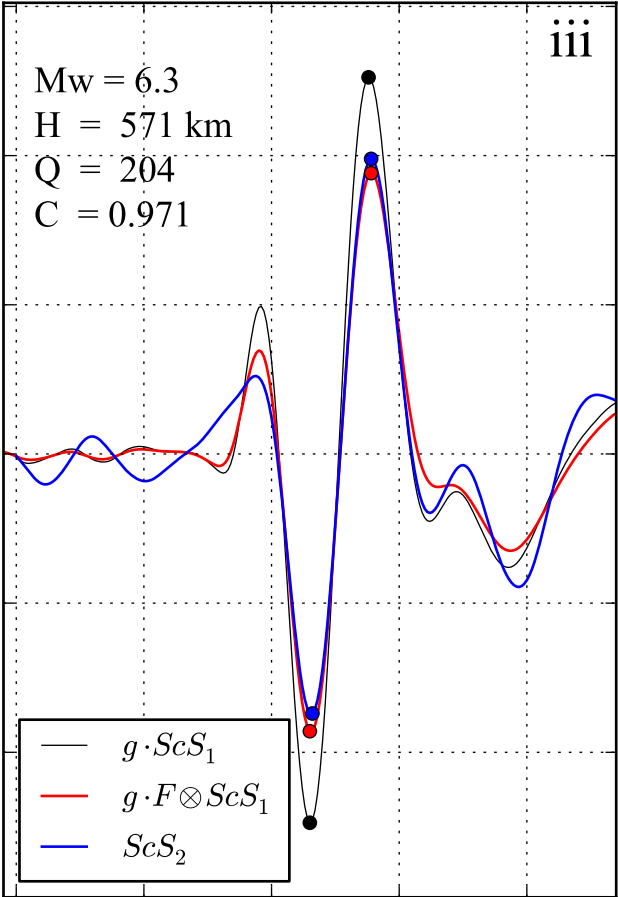
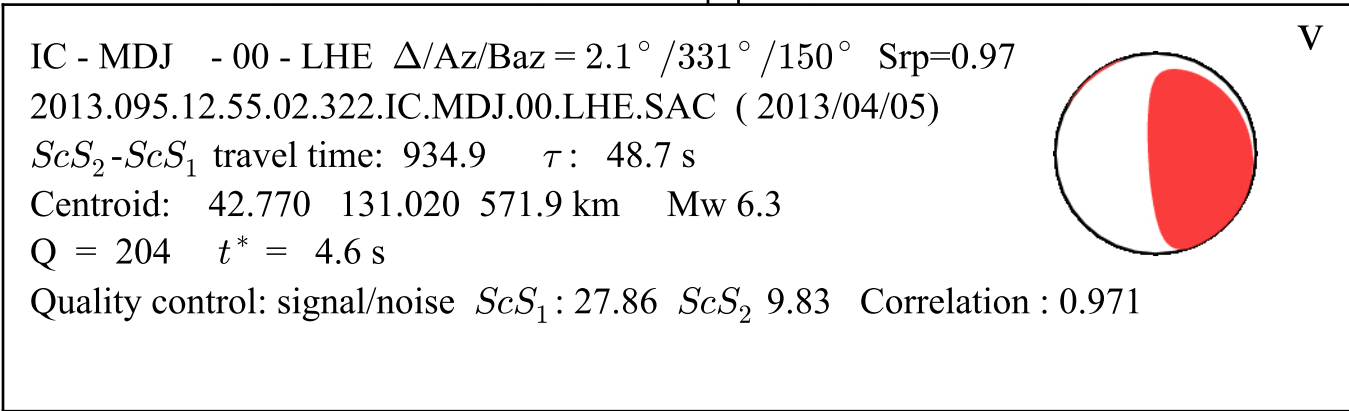


Time [s]

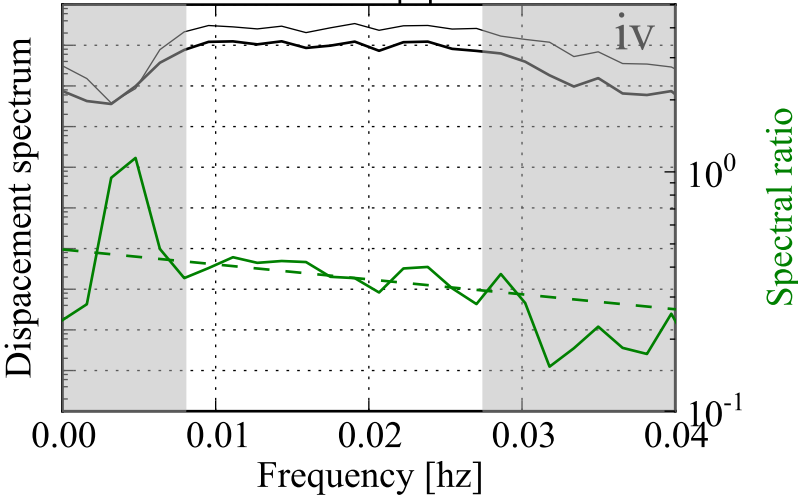


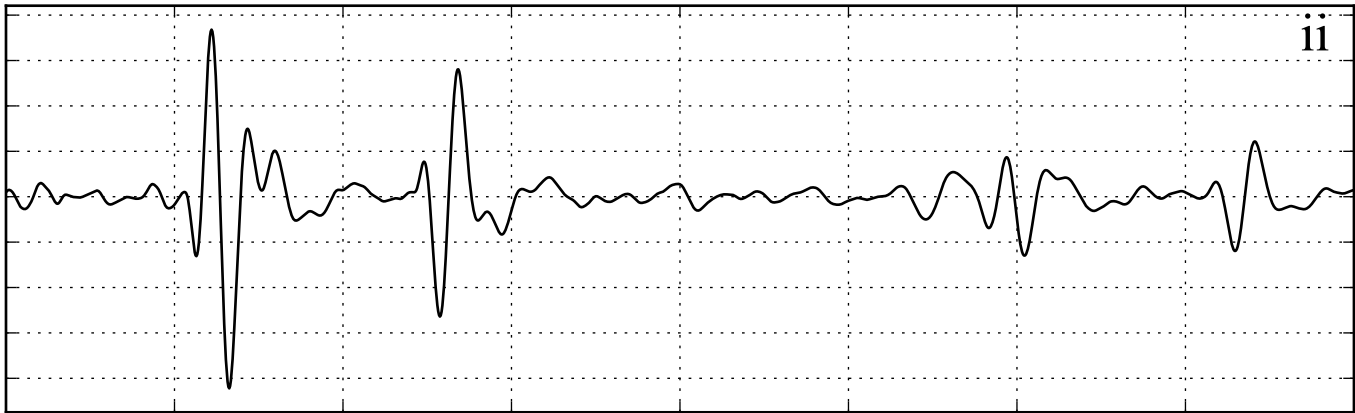
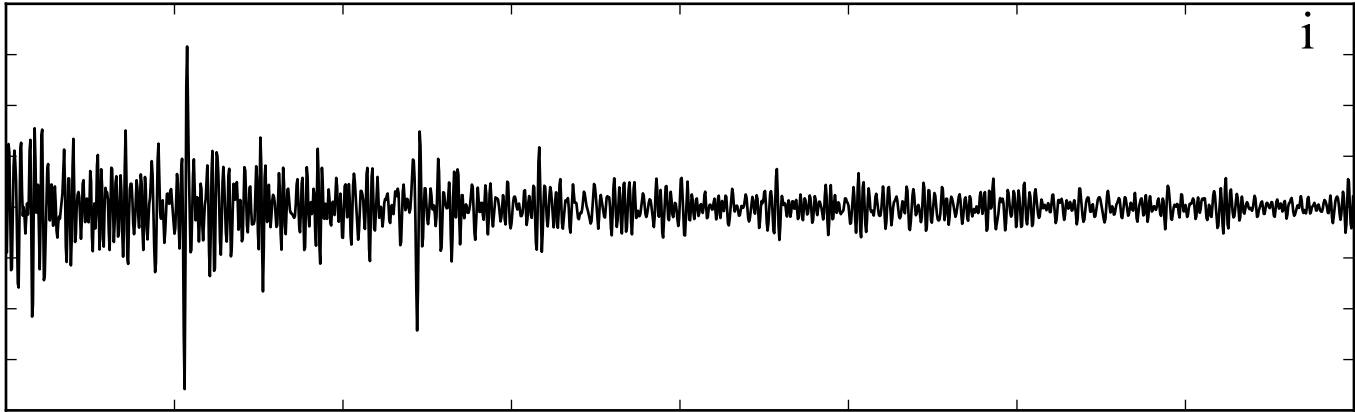


Time [s]



Time [s]





Time [s]

II - MSVF - 00 - LH2 $\Delta/Az/Baz = 4.0^\circ / 317^\circ / 138^\circ$ $Srp=0.87$

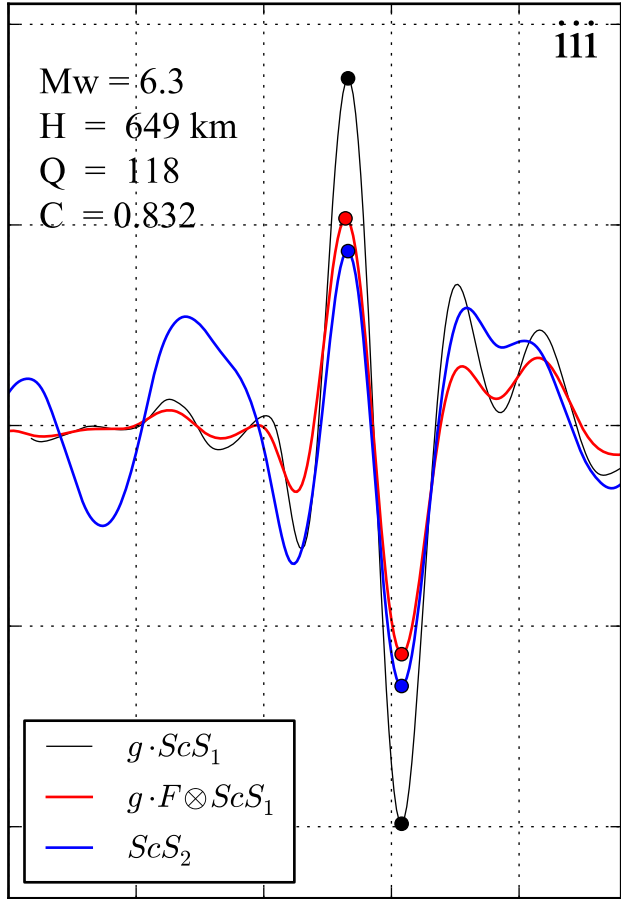
1995.017.16.49.12.998.II.MSVF.00.LH2.SAC (1995/01/17)

ScS_2 - ScS_1 travel time: 942.9 τ : 44.3 s

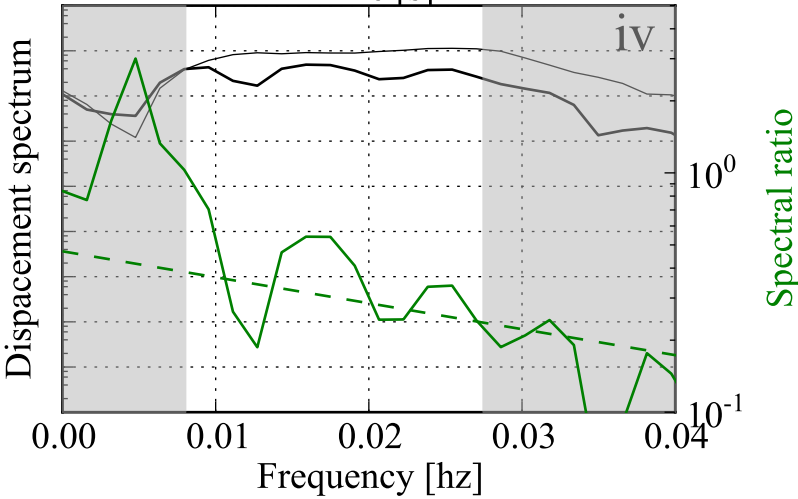
Centroid: -20.710 -179.130 649.4 km Mw 6.3

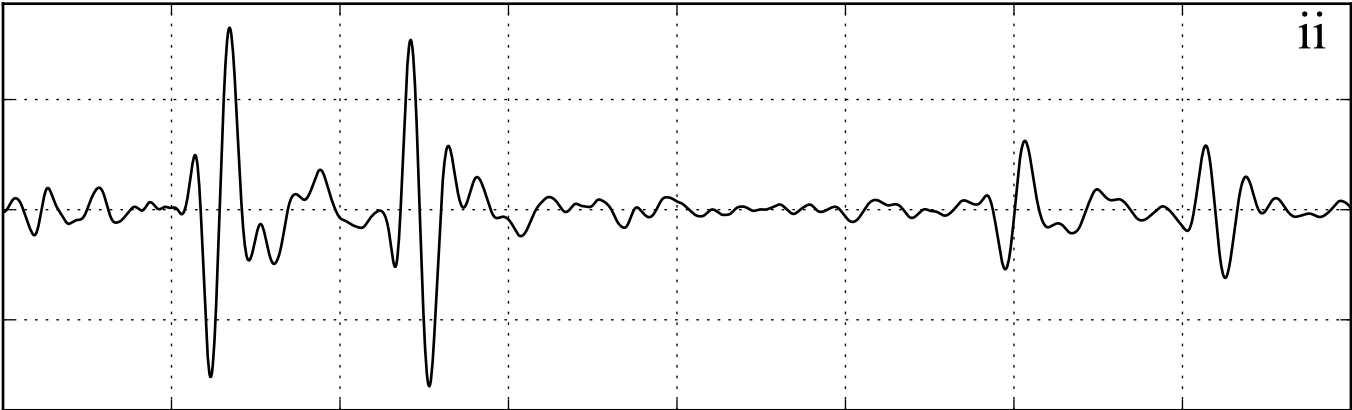
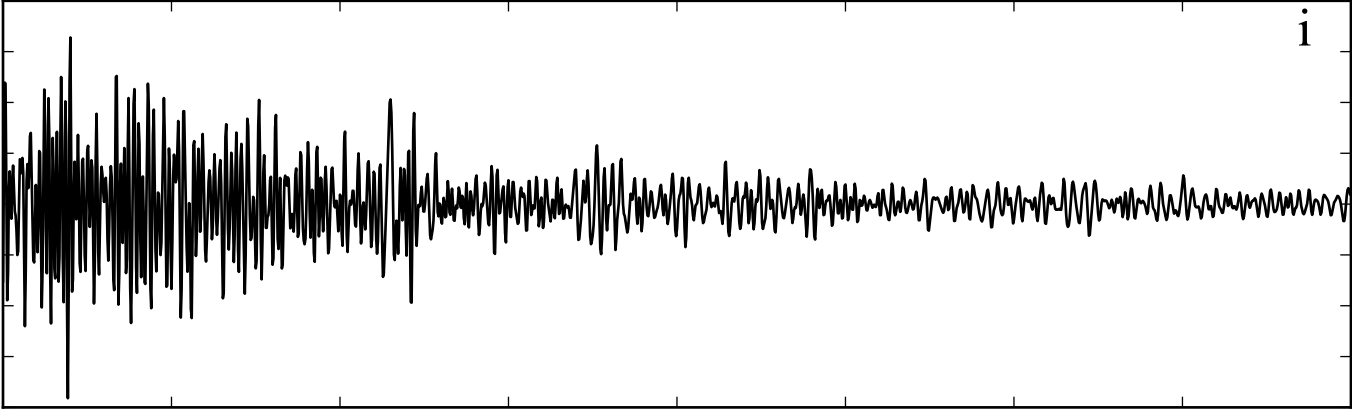
$Q = 118$ $t^* = 8.0$ s

Quality control: signal/noise ScS_1 : 17.03 ScS_2 4.67 Correlation : 0.832

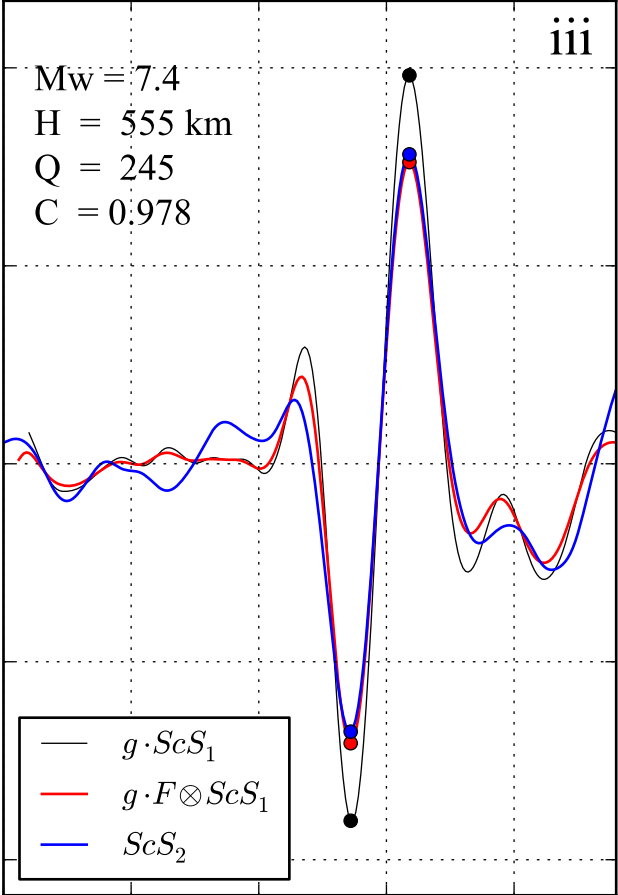
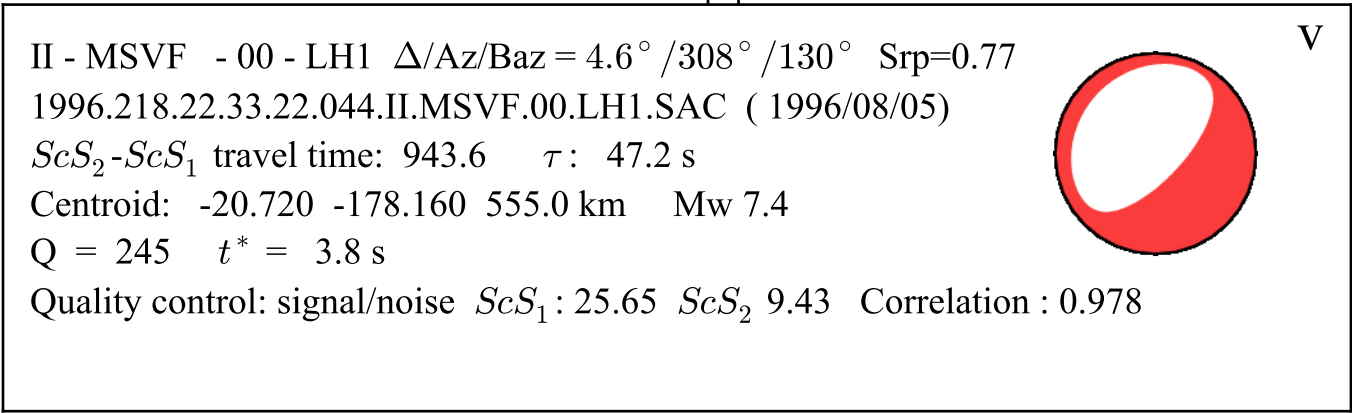


Time [s]

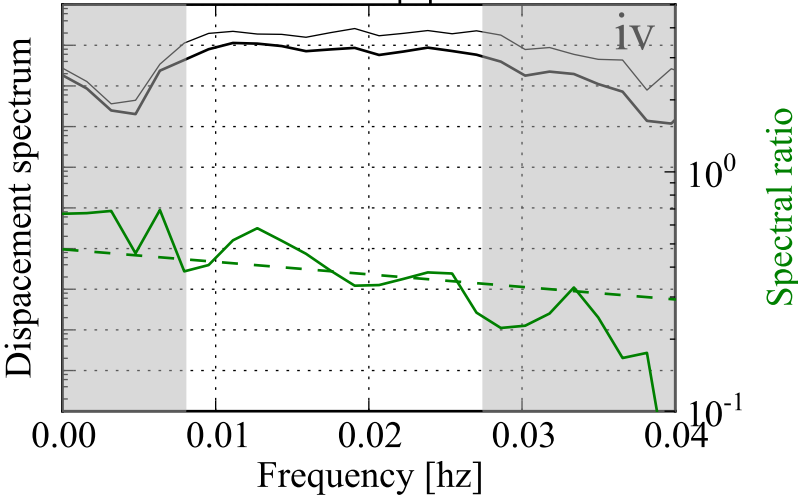


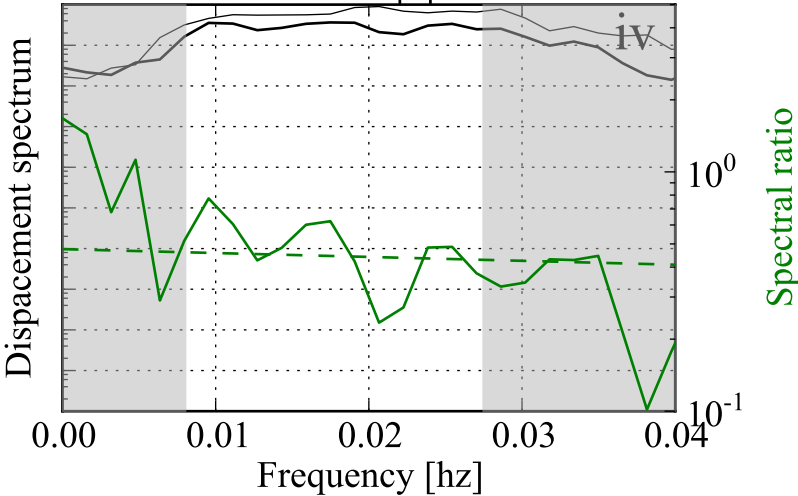
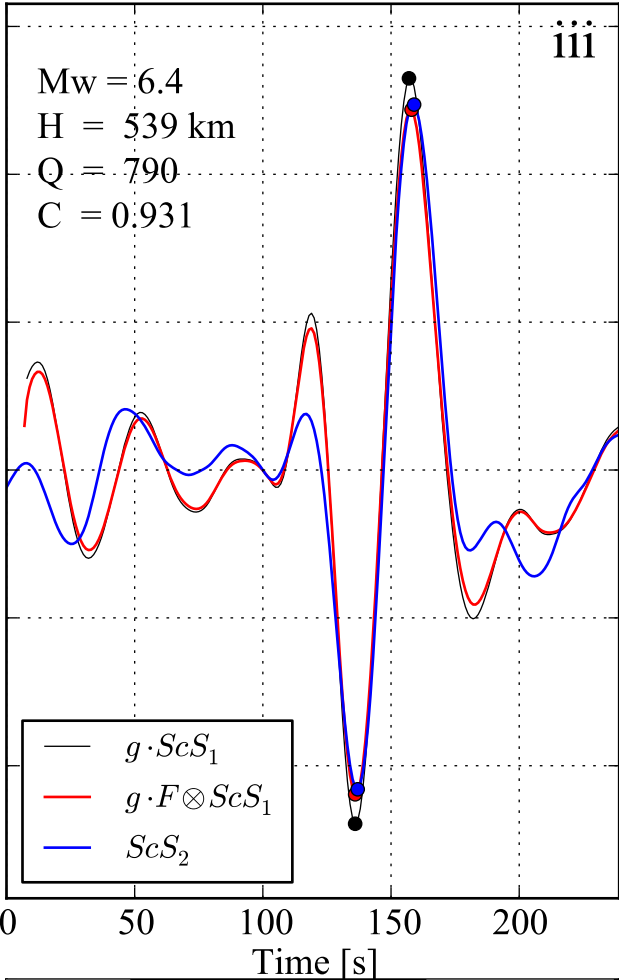
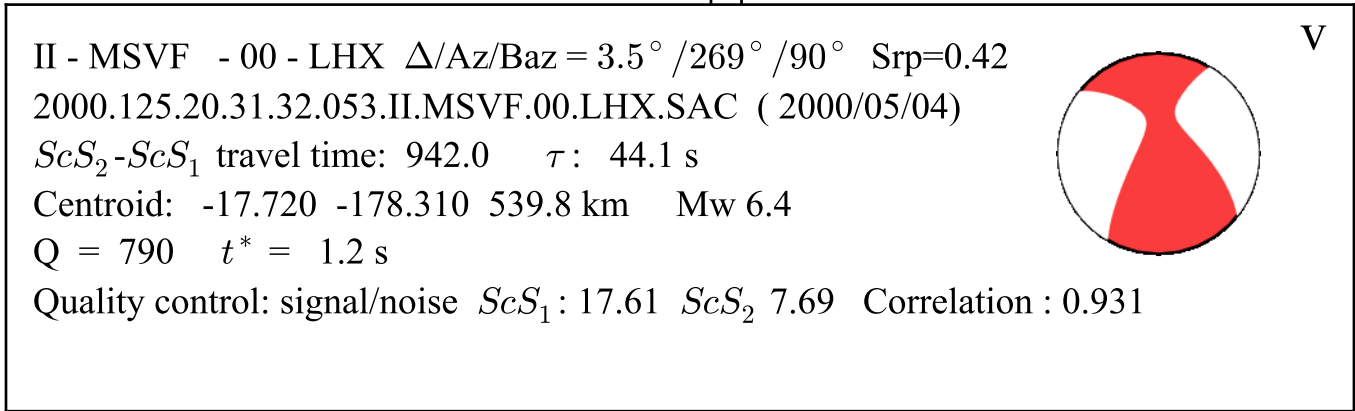
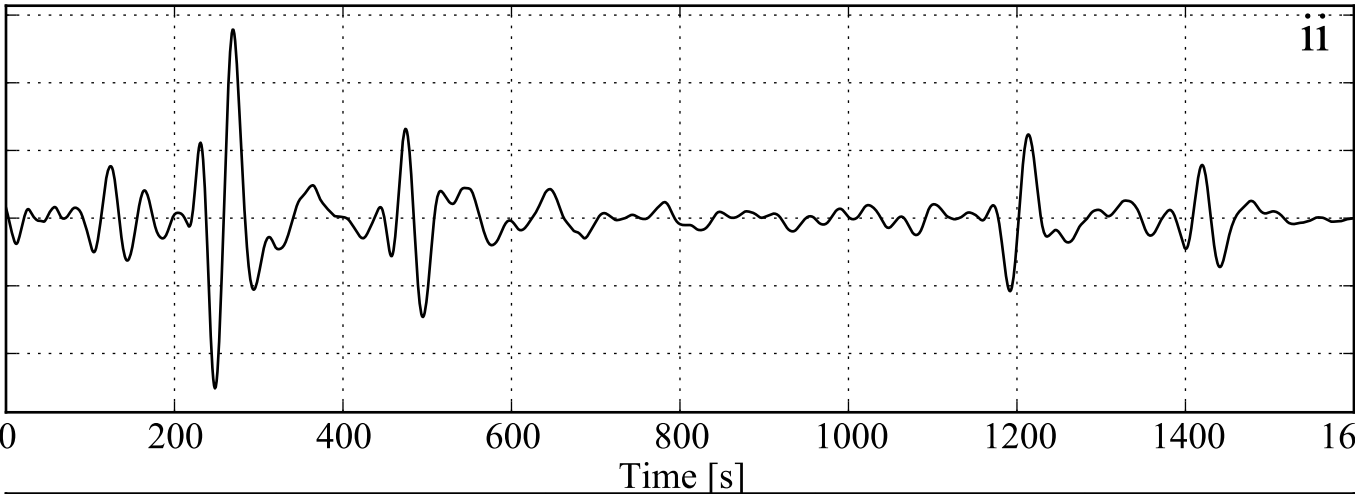
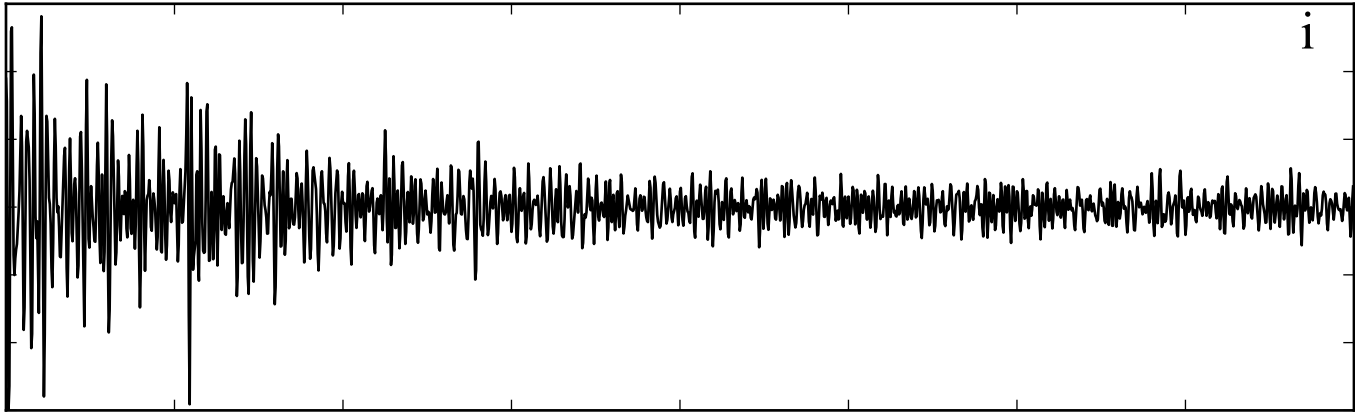


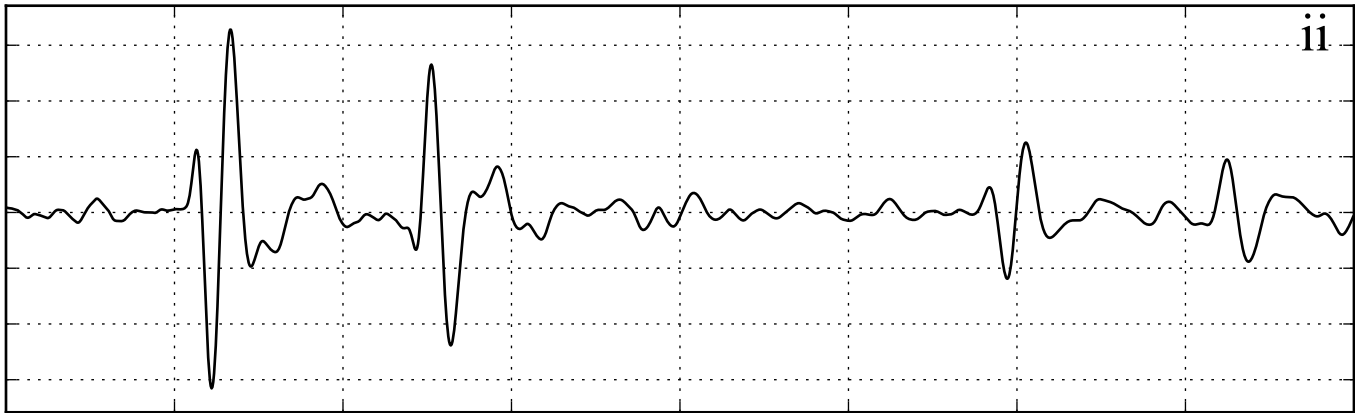
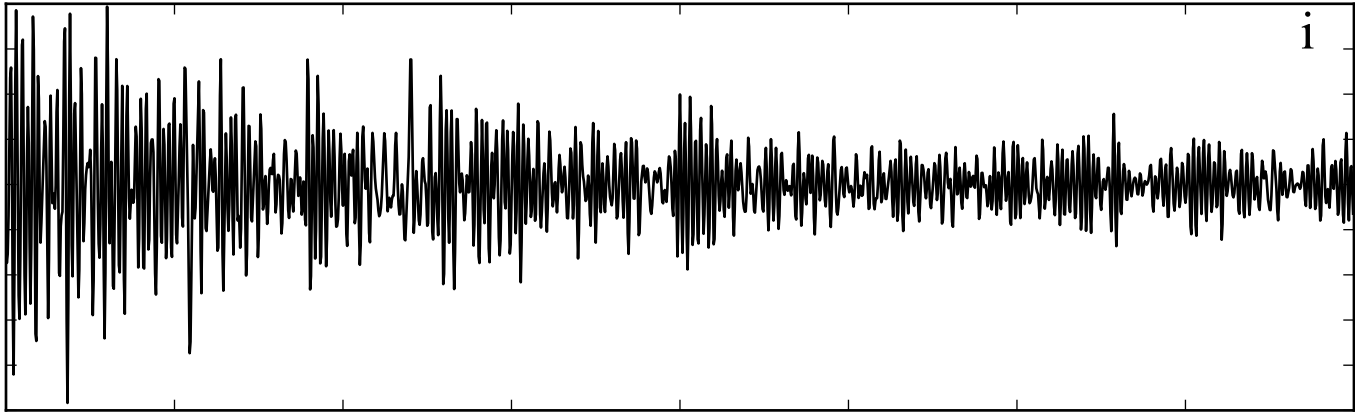
Time [s]



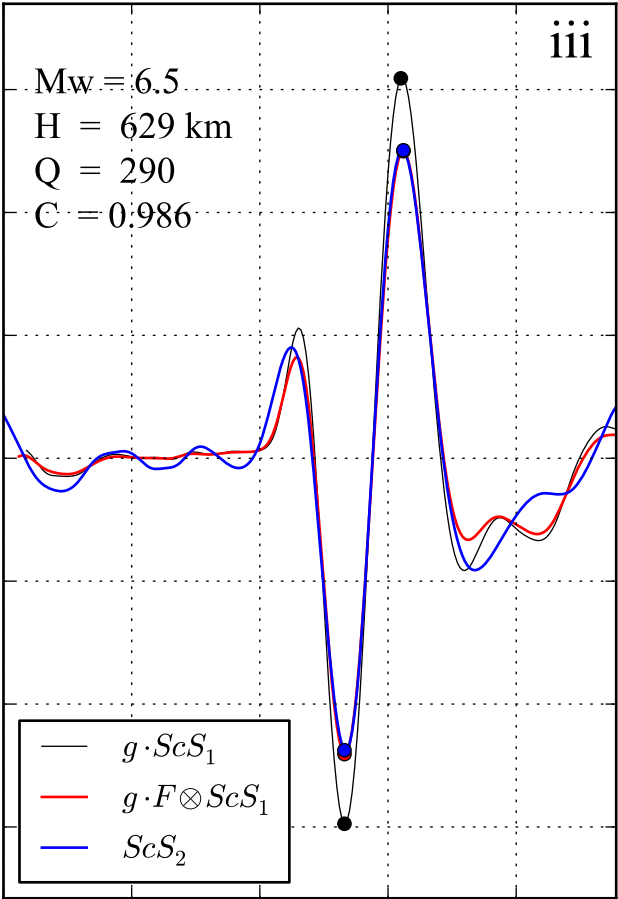
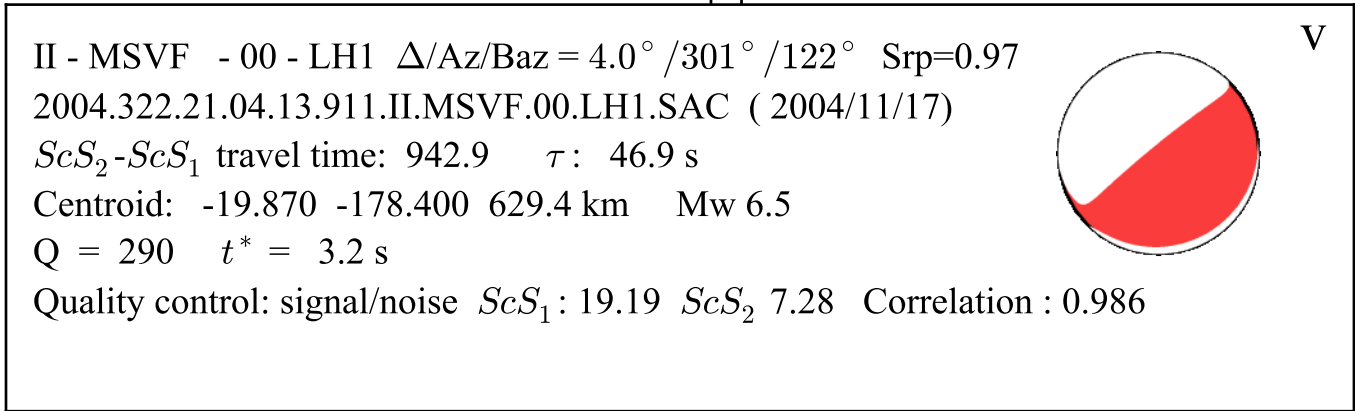
Time [s]



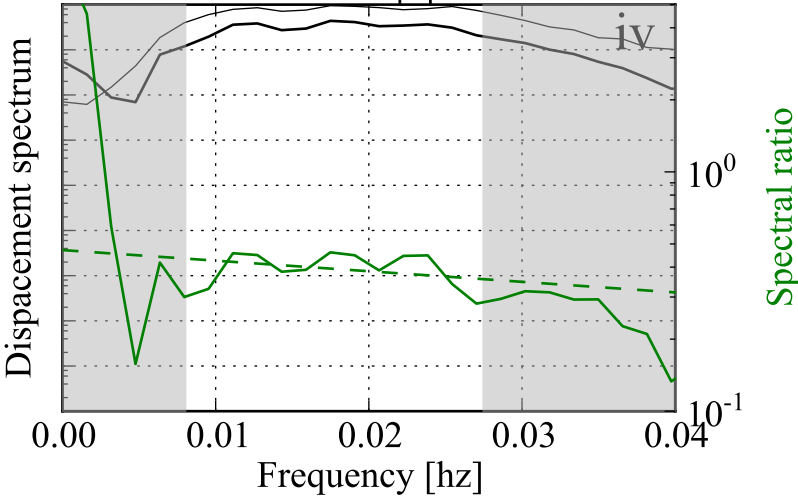


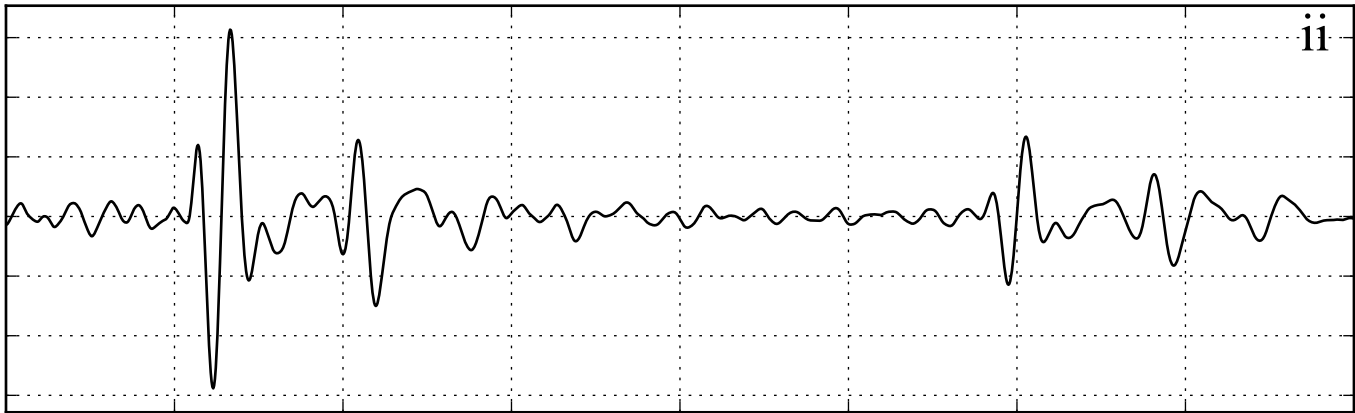
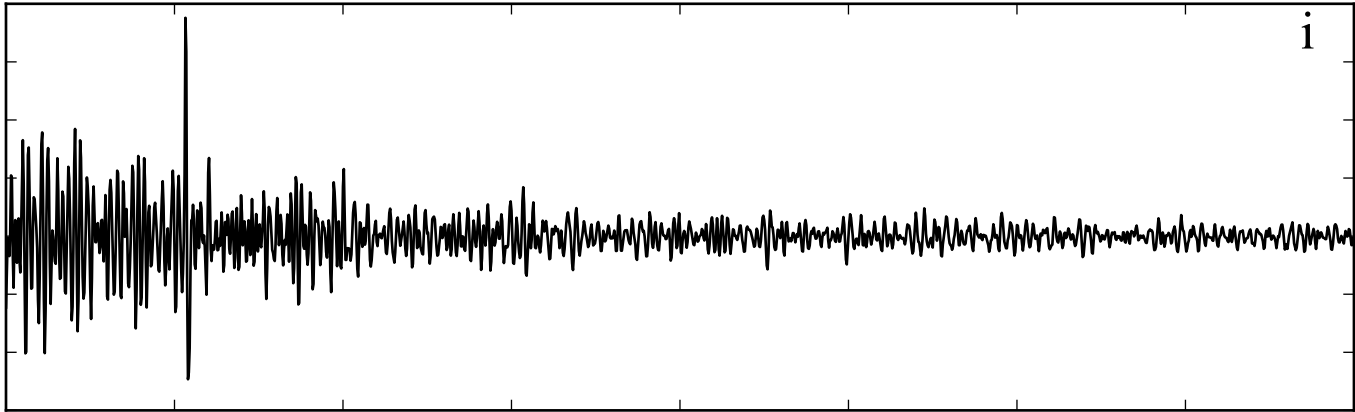


Time [s]

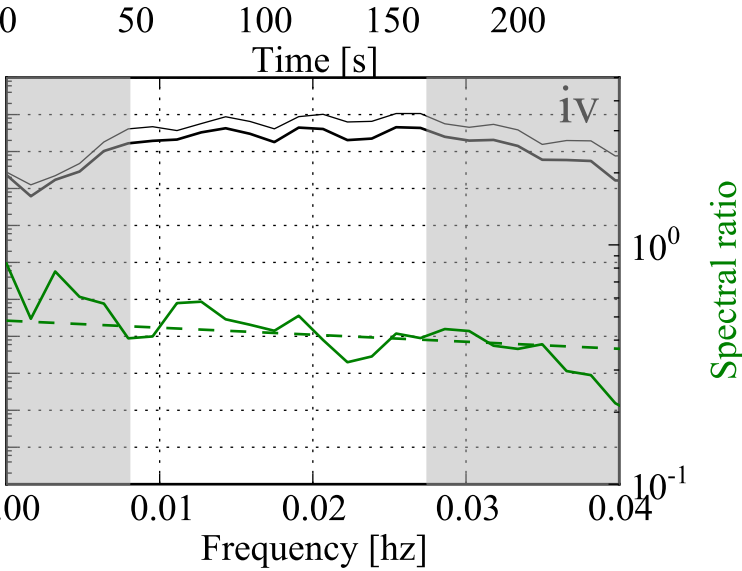
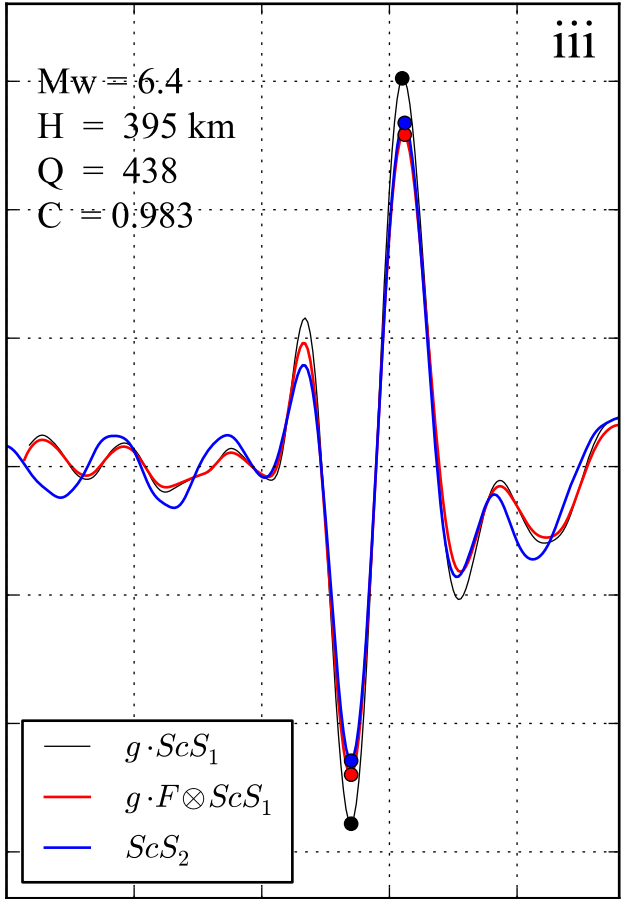
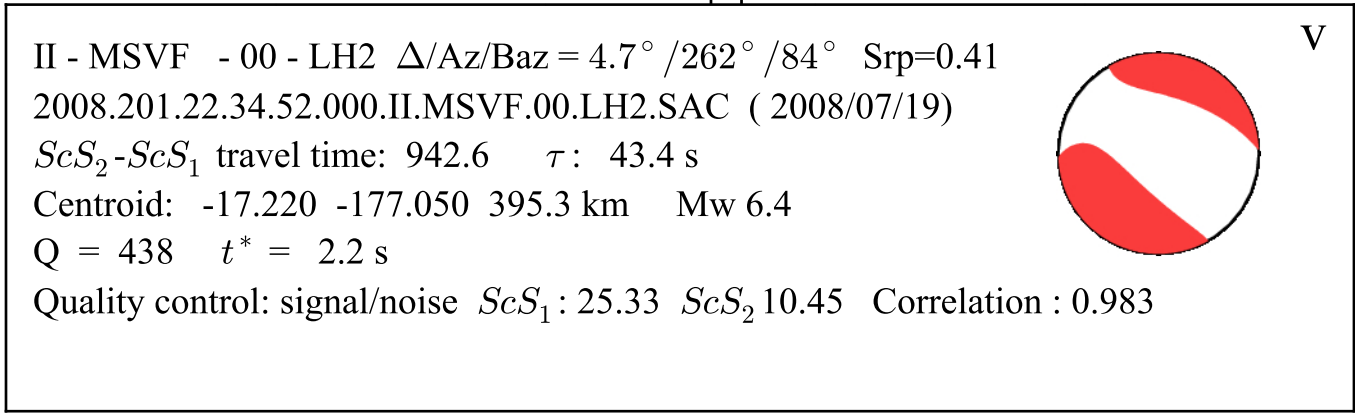


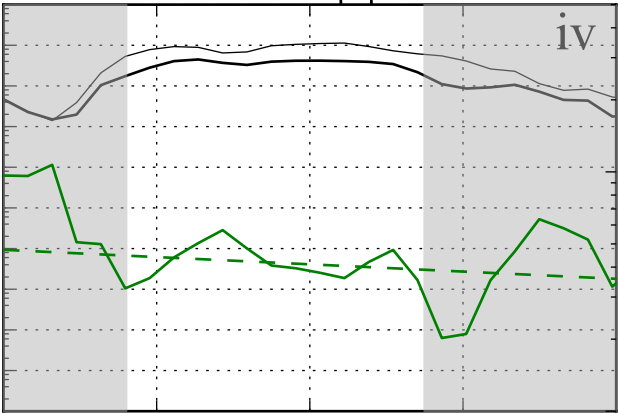
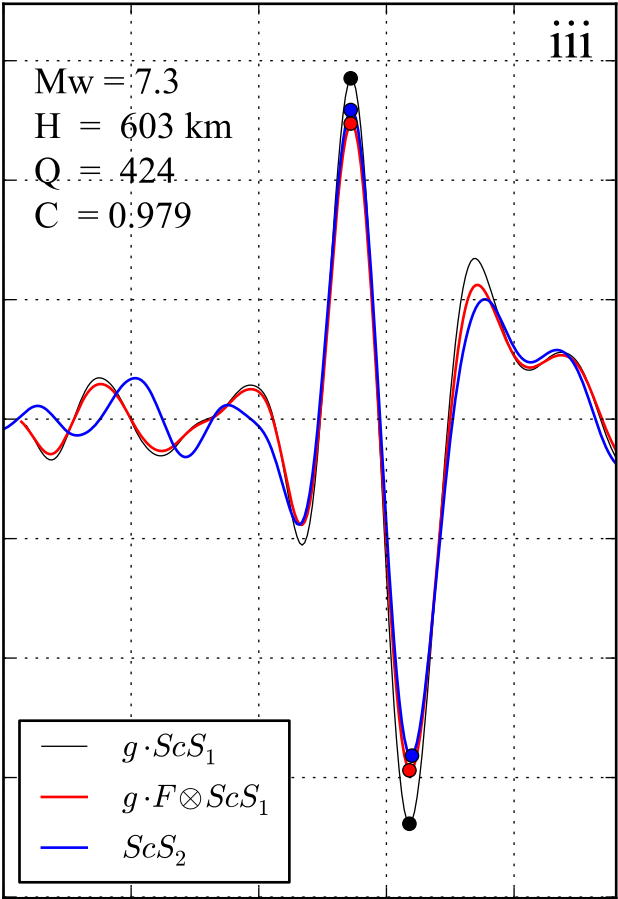
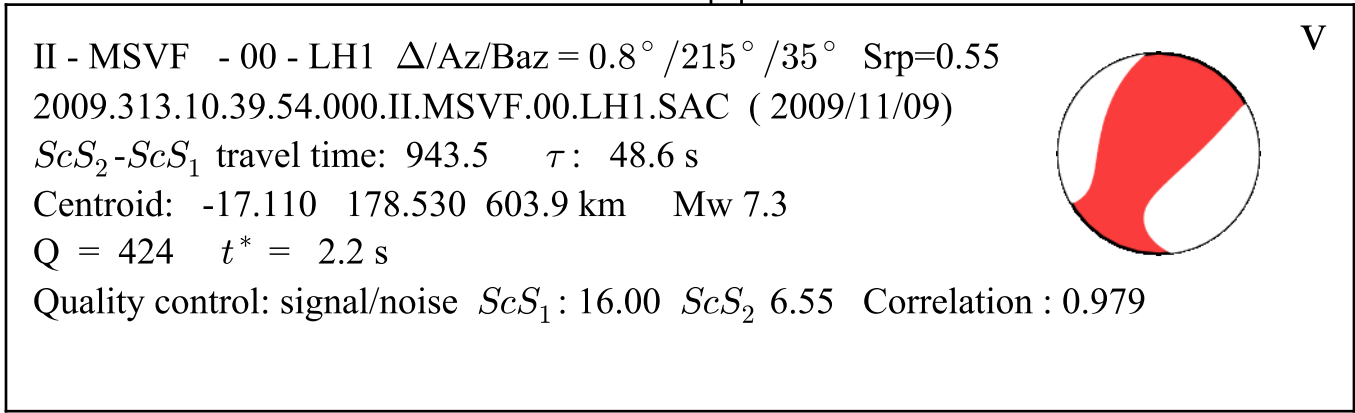
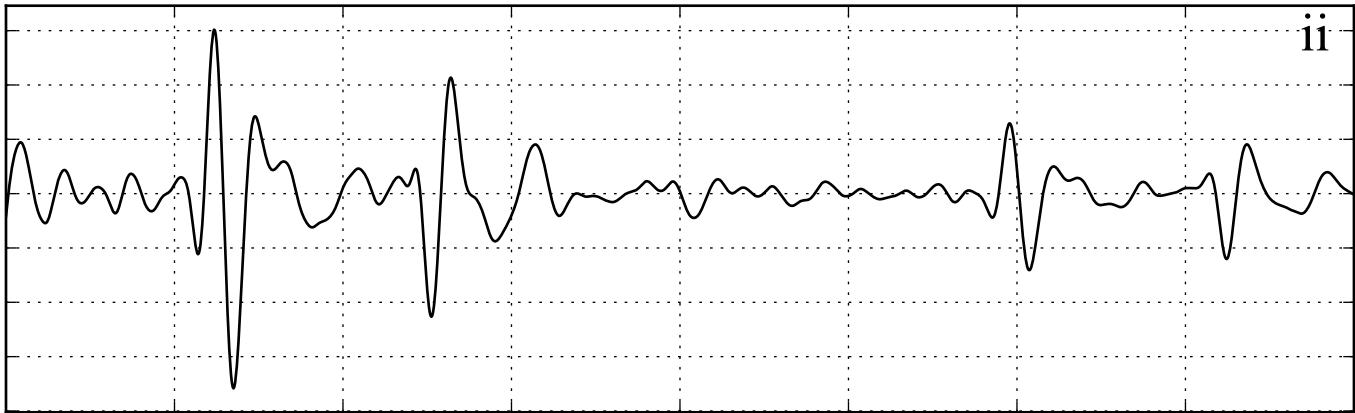
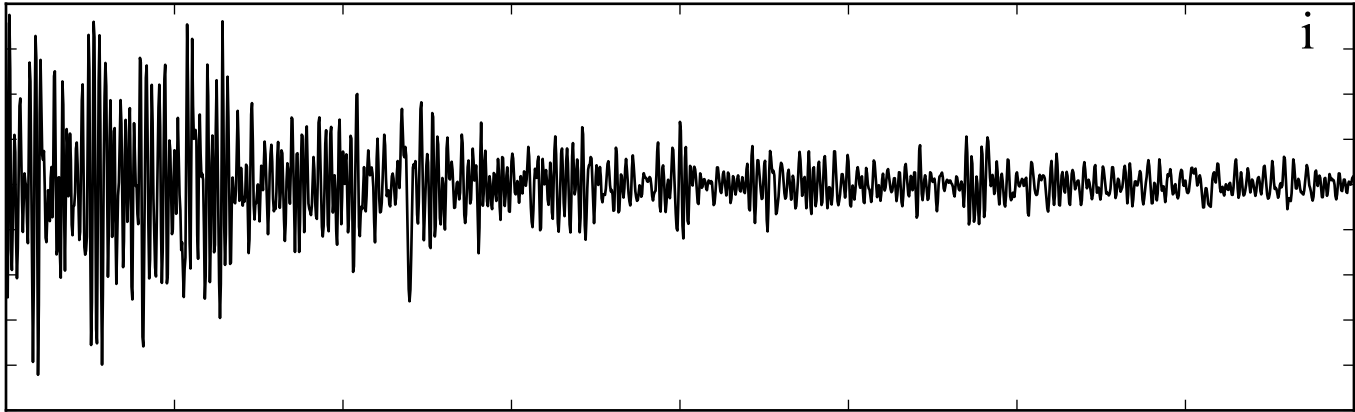
Time [s]

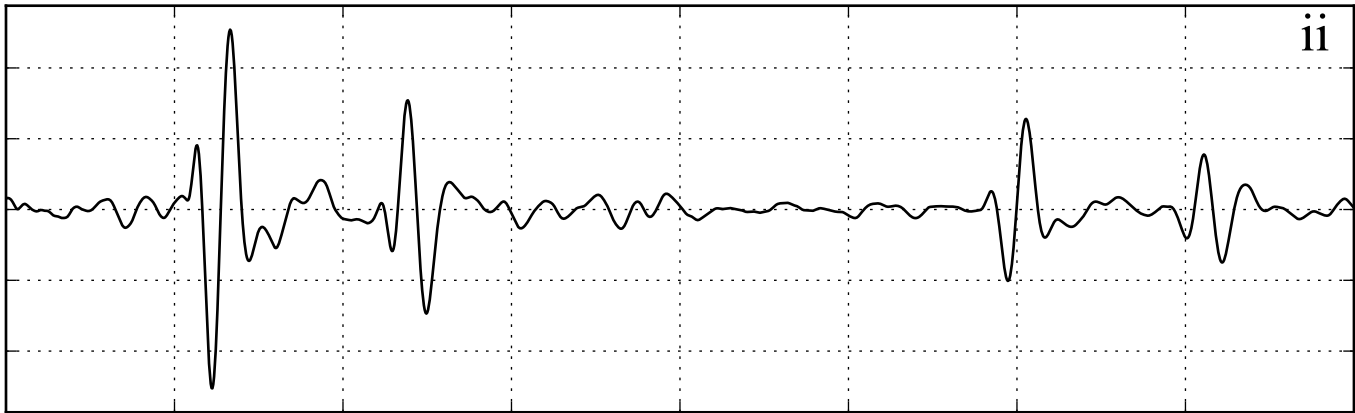
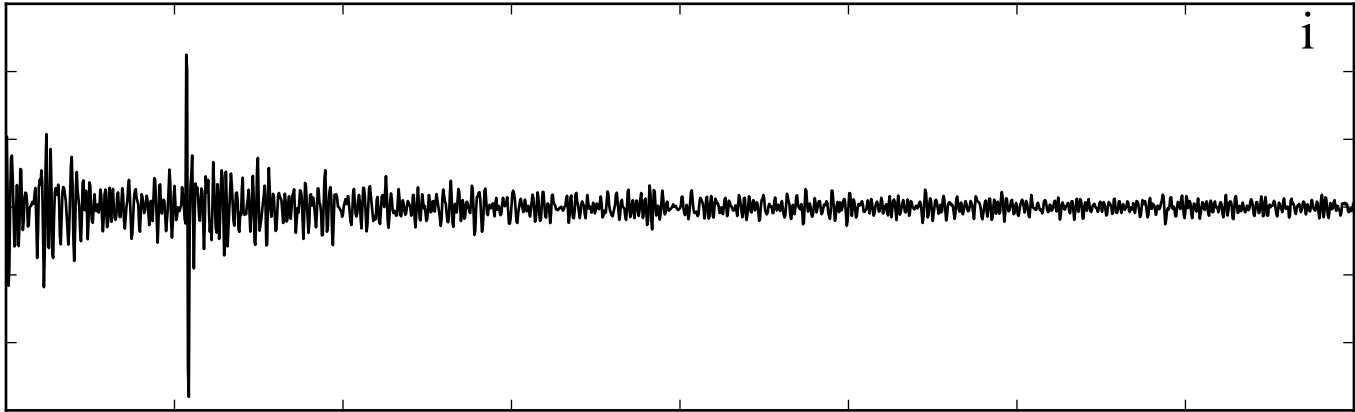




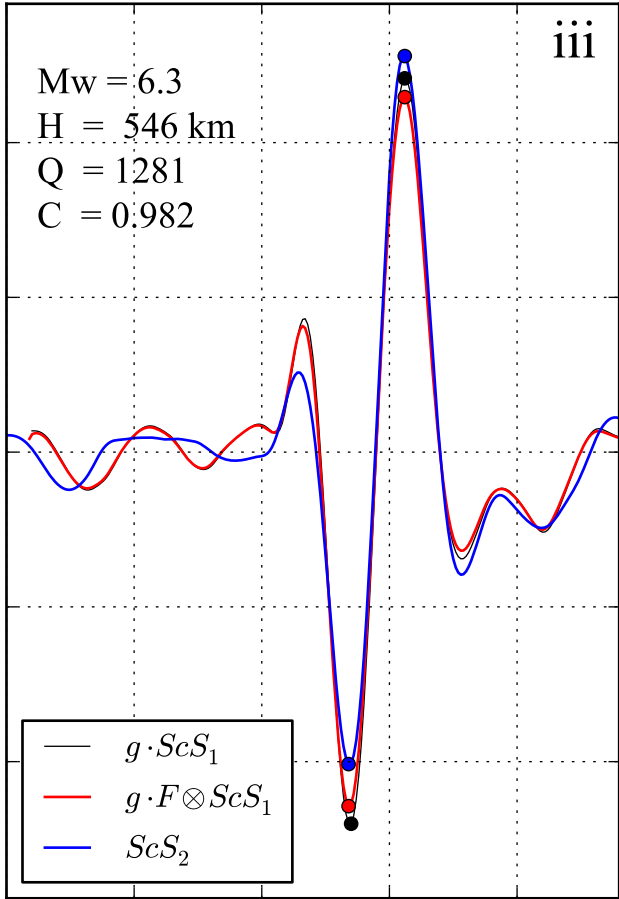
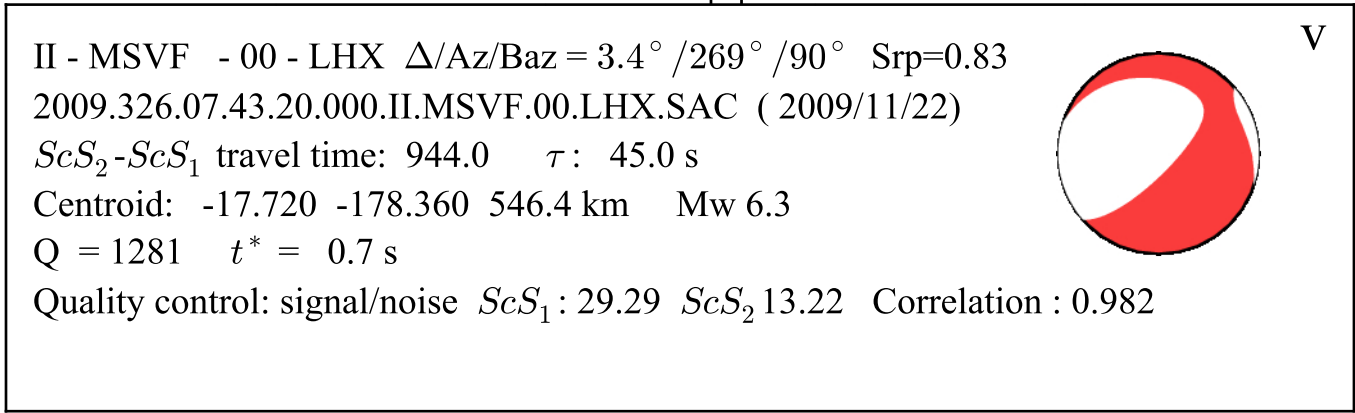
Time [s]



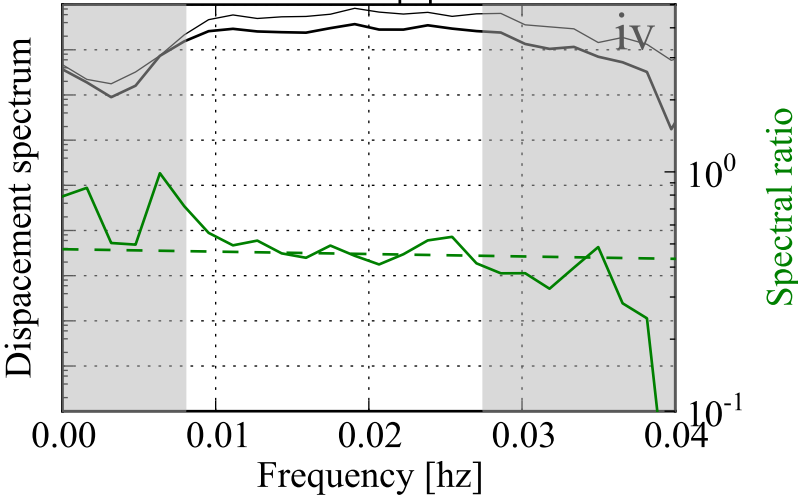


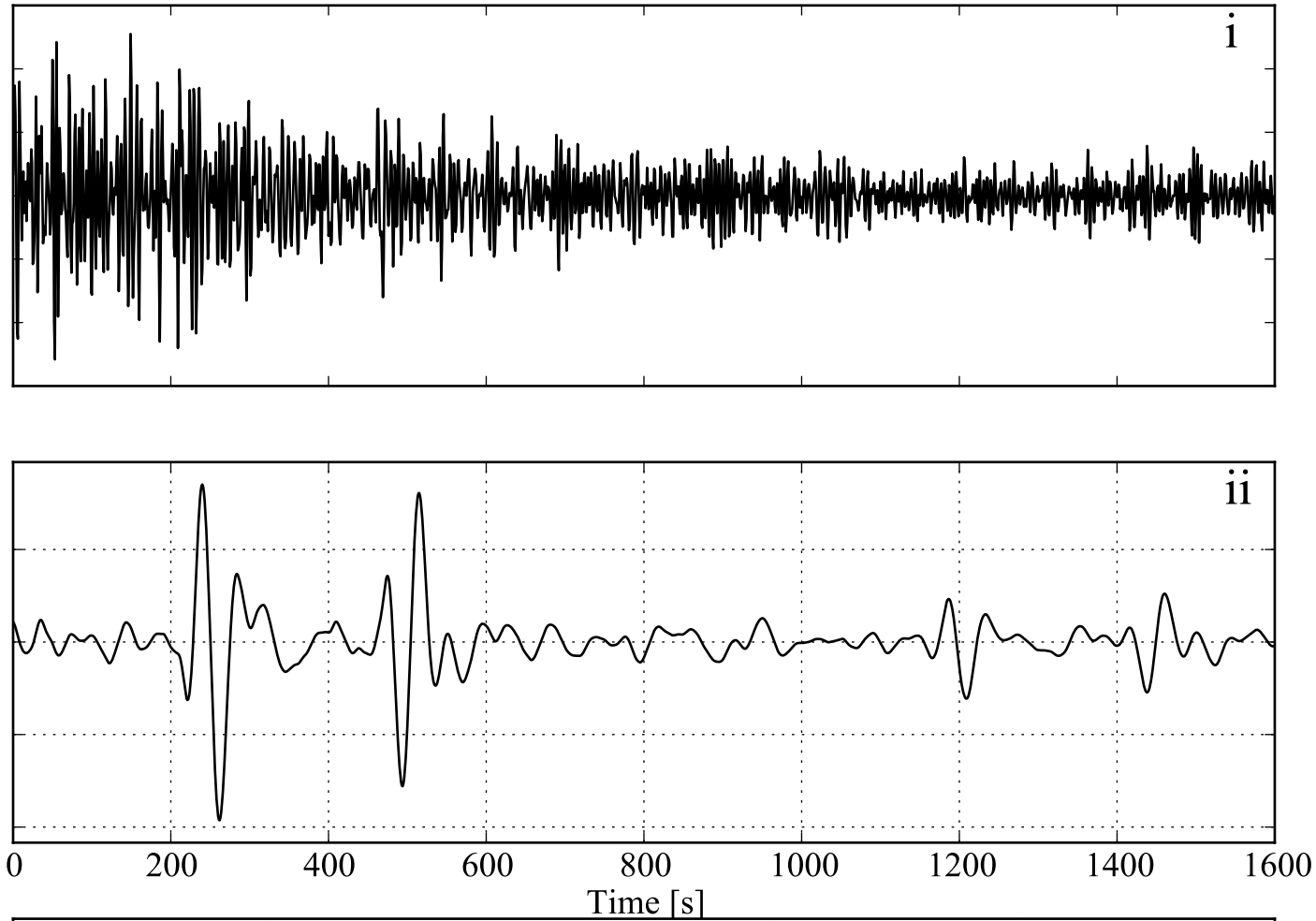


Time [s]

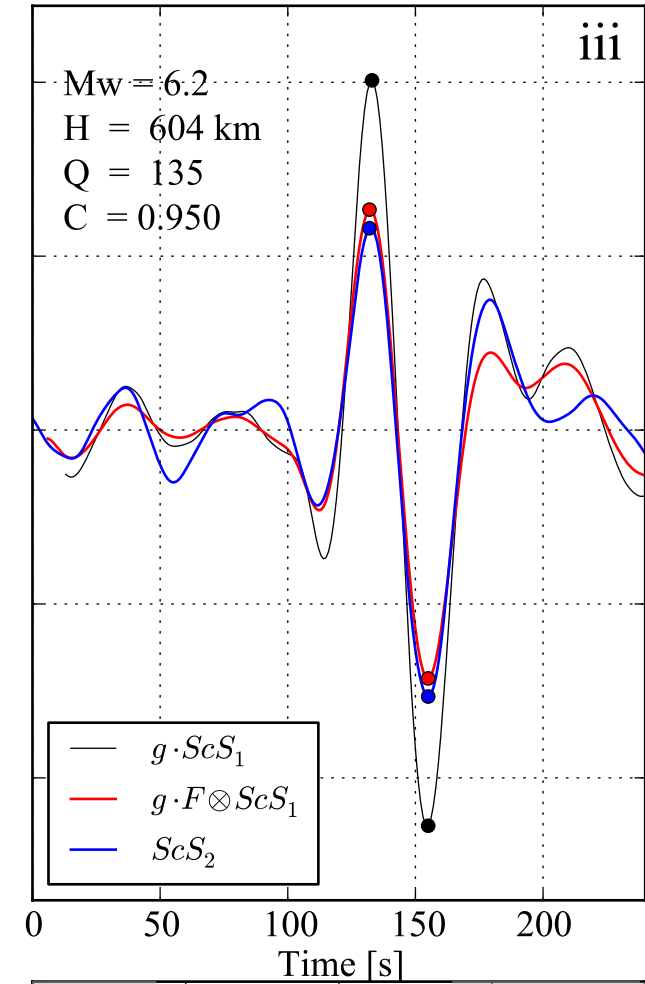
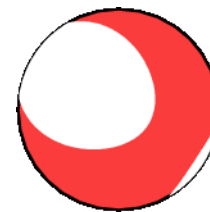


Time [s]



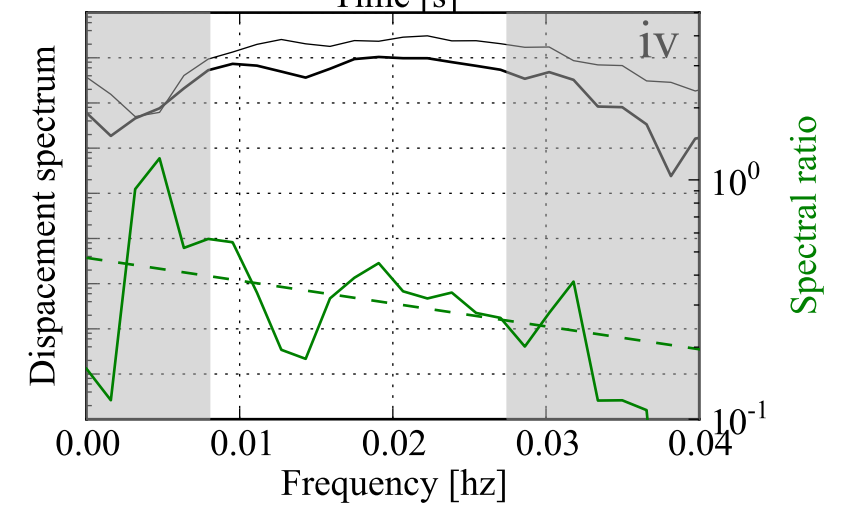


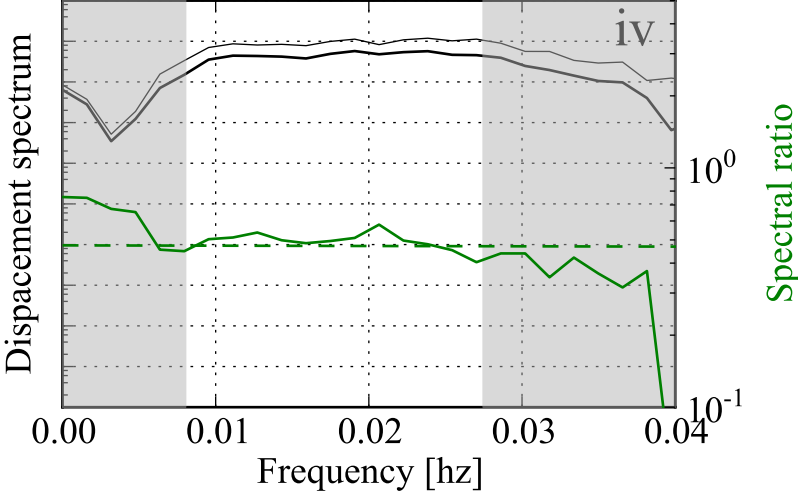
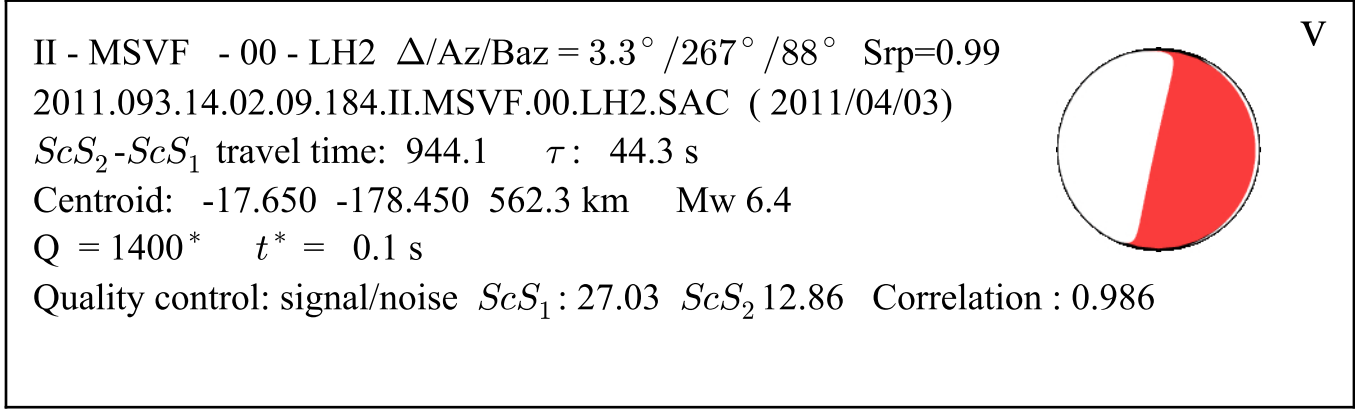
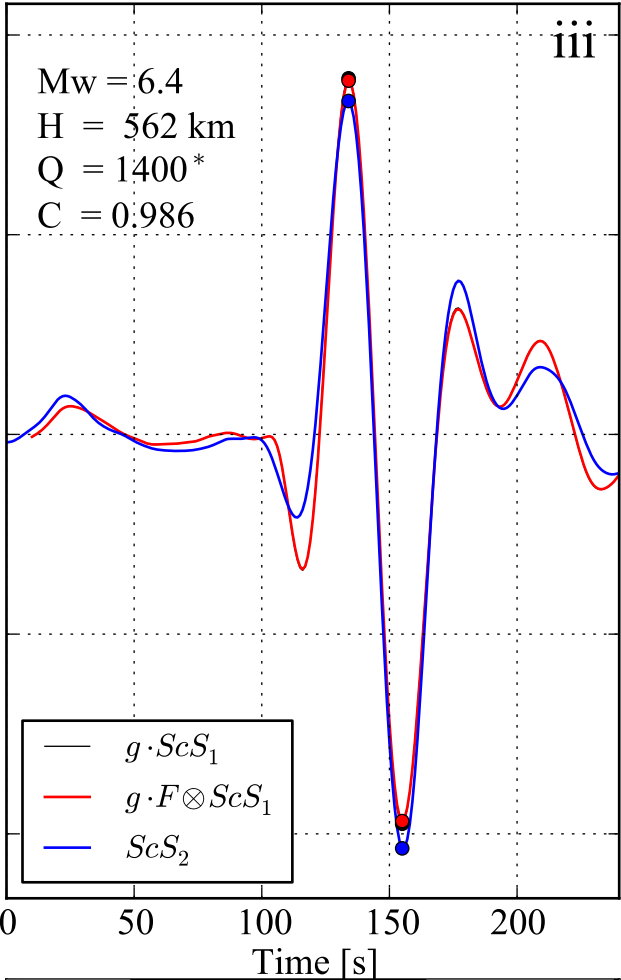
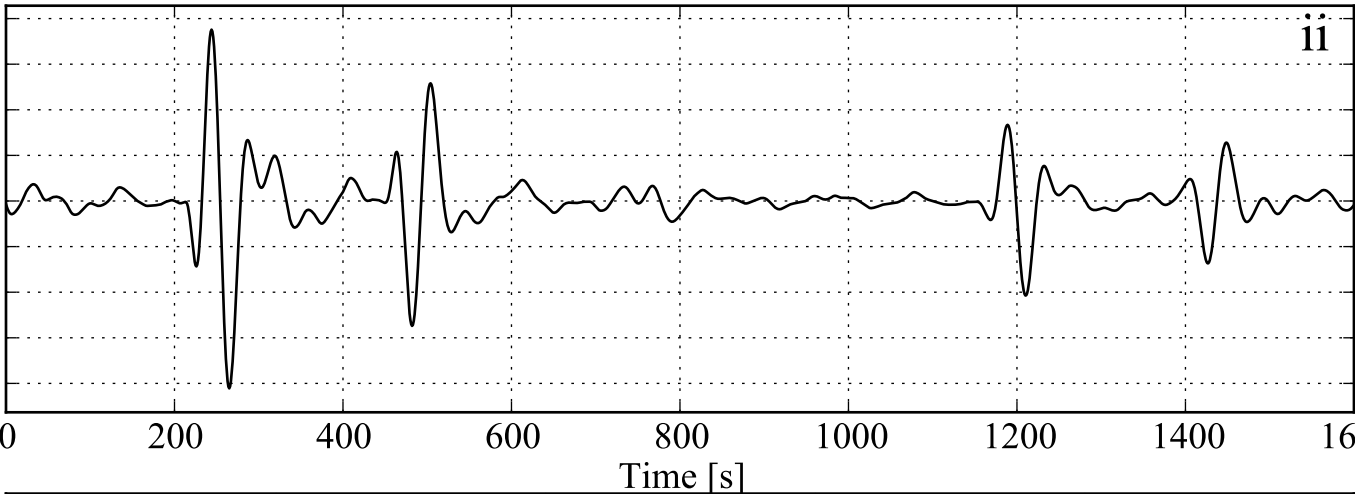
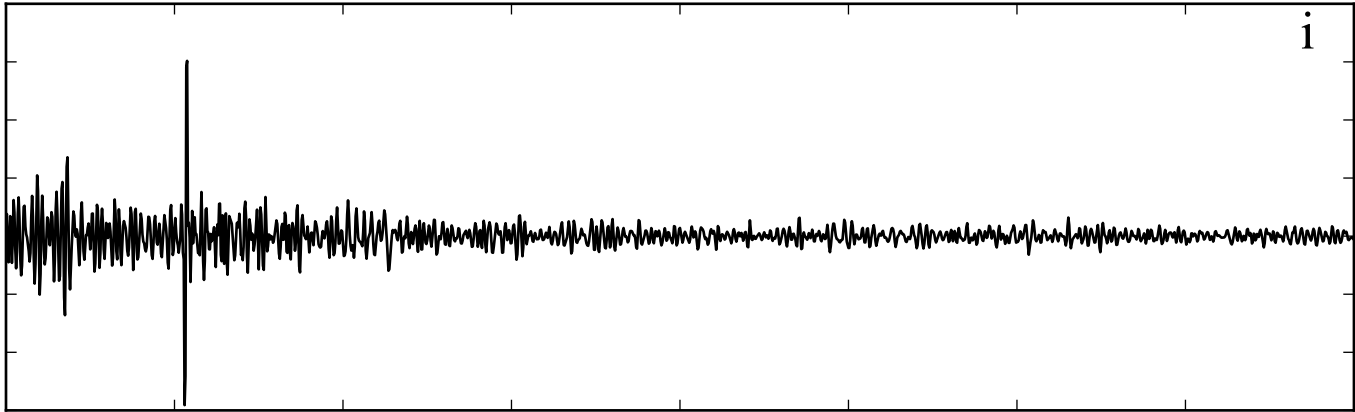
II - MSVF - 00 - LH2 $\Delta/Az/Baz = 4.3^\circ / 313^\circ / 134^\circ$ $Srp=0.67$
 2010.228.19.30.49.000.II.MSVF.00.LH2.SAC (2010/08/16)
 ScS_2 - ScS_1 travel time: 946.8 τ : 45.8 s
 Centroid: -20.740 -178.670 604.0 km Mw 6.2
 $Q = 135$ $t^* = 7.0$ s
 Quality control: signal/noise ScS_1 : 12.46 ScS_2 3.70 Correlation : 0.950

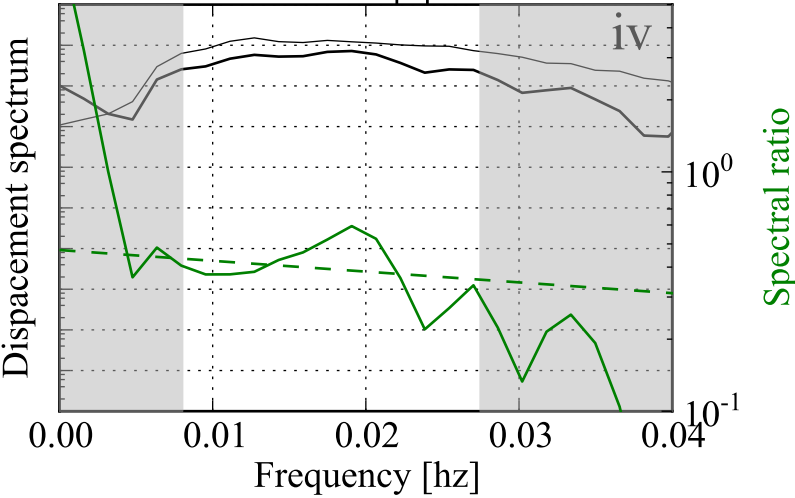
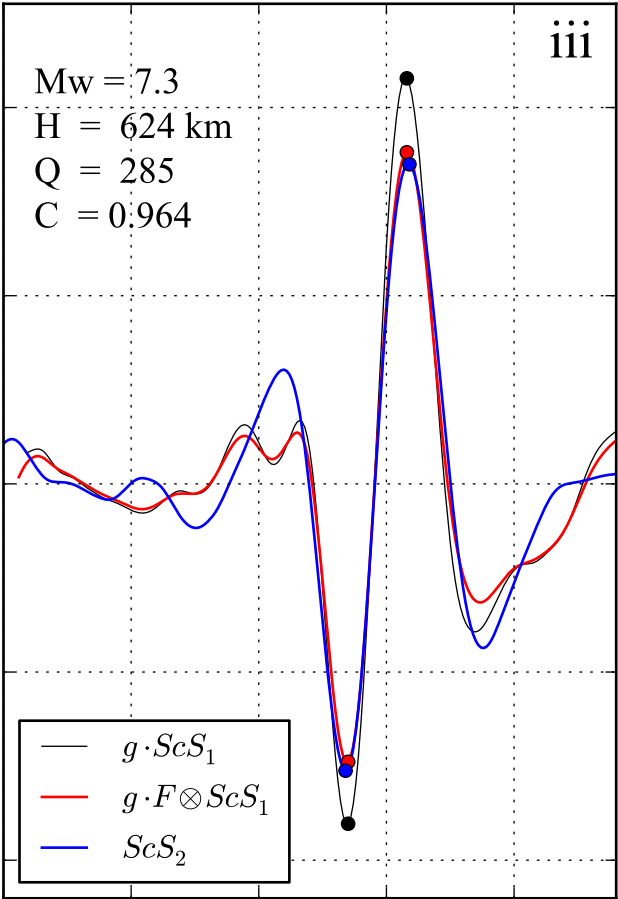
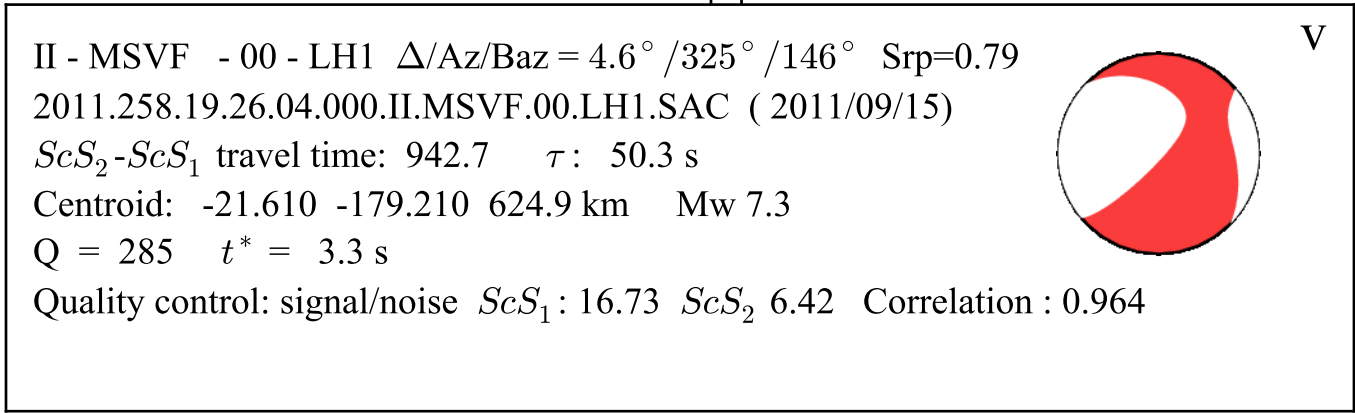
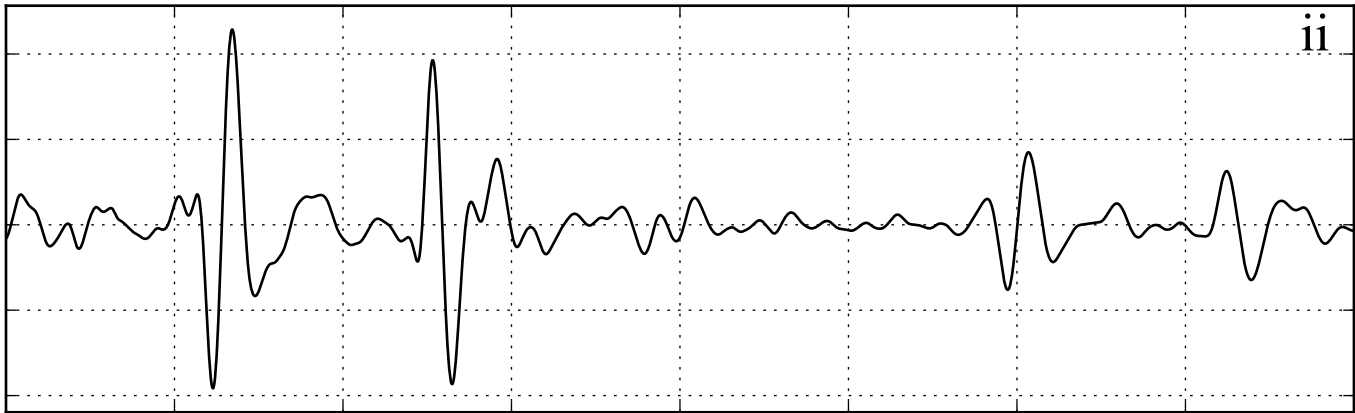
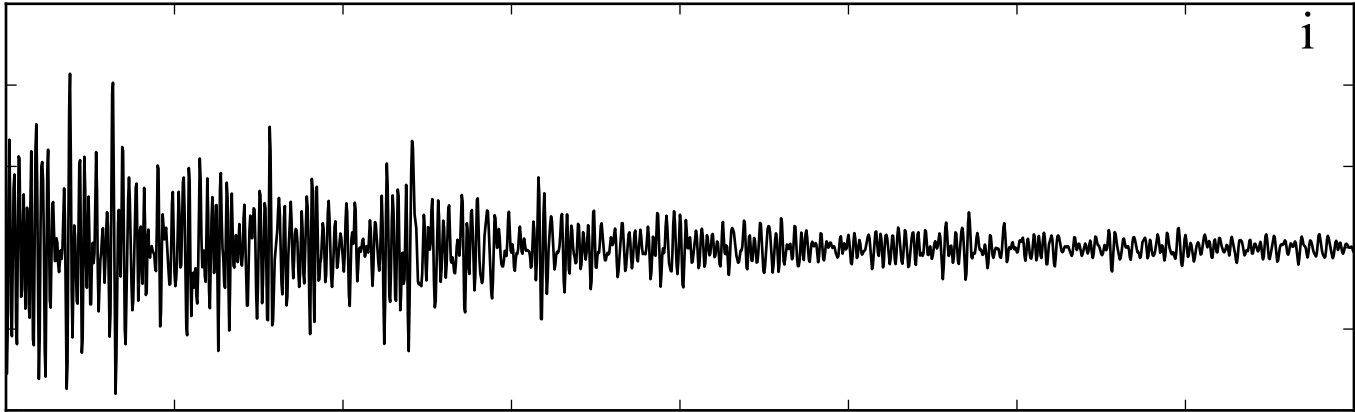


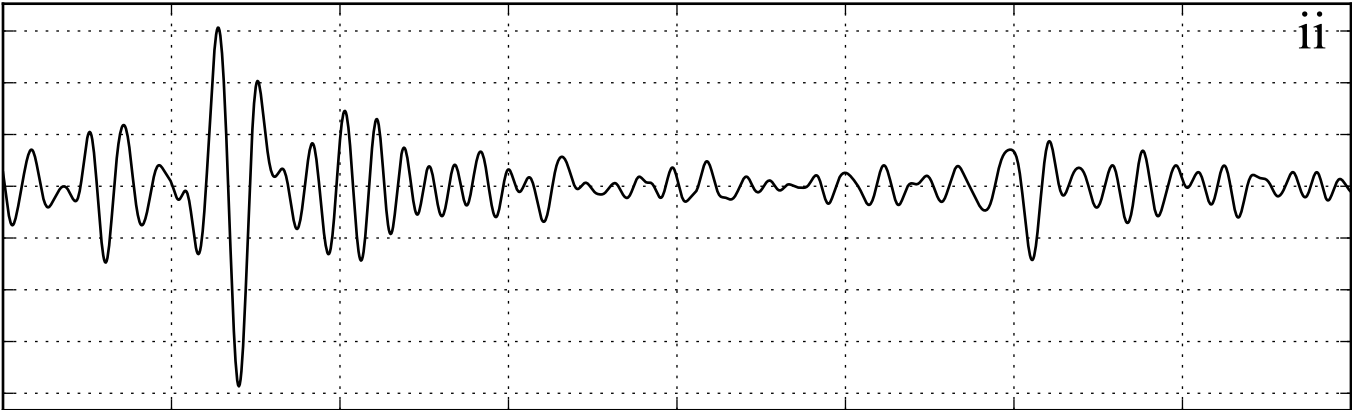
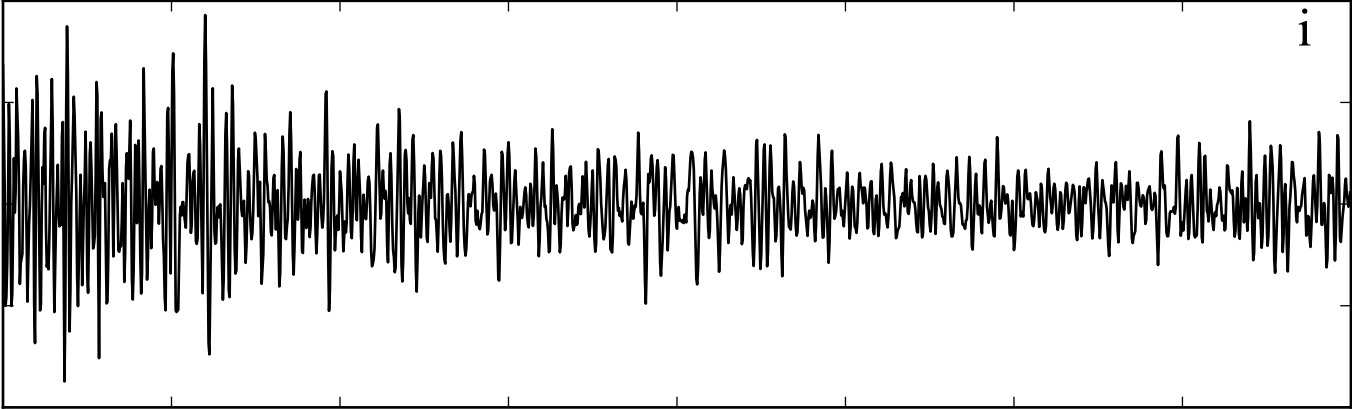
Mw = 6.2
 H = 604 km
 $Q = 135$
 $C = 0.950$

$g \cdot ScS_1$
 $g \cdot F \otimes ScS_1$
 ScS_2

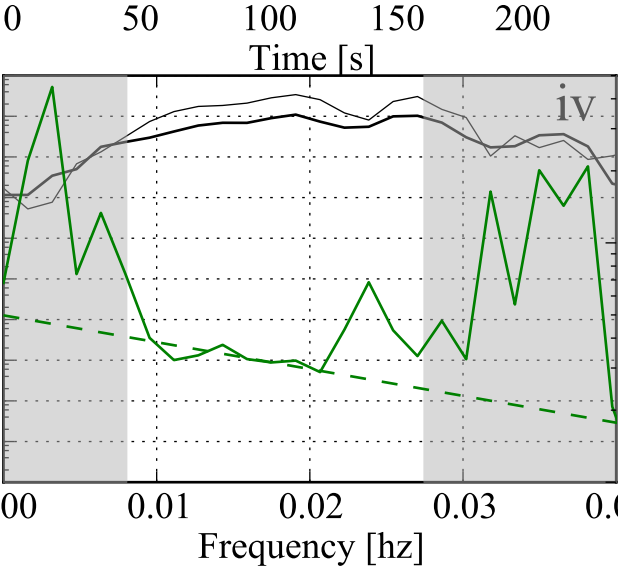
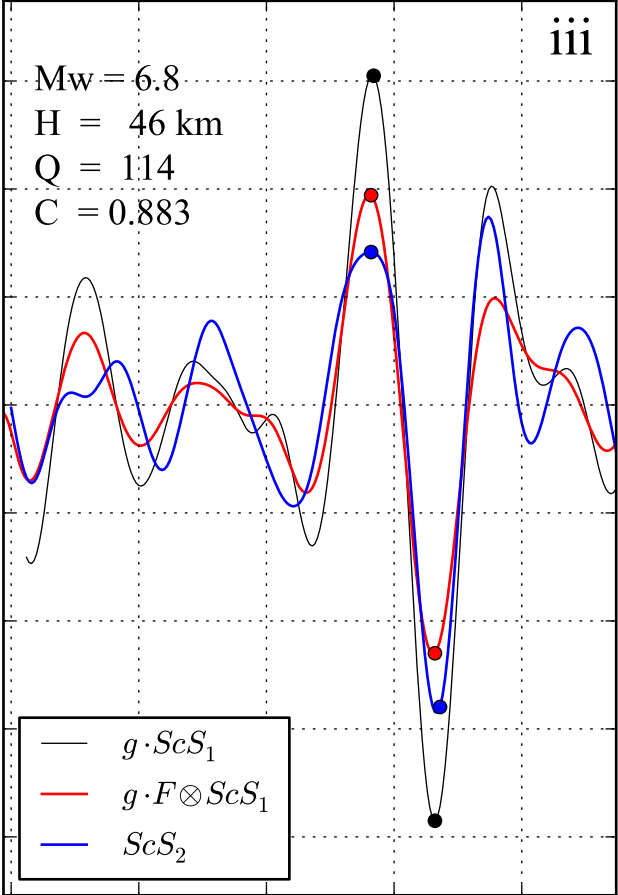
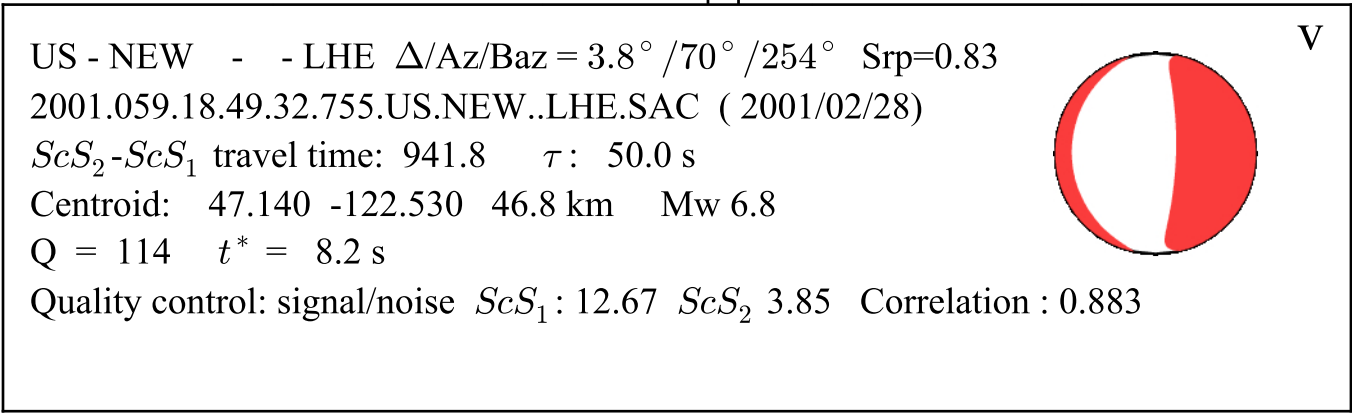


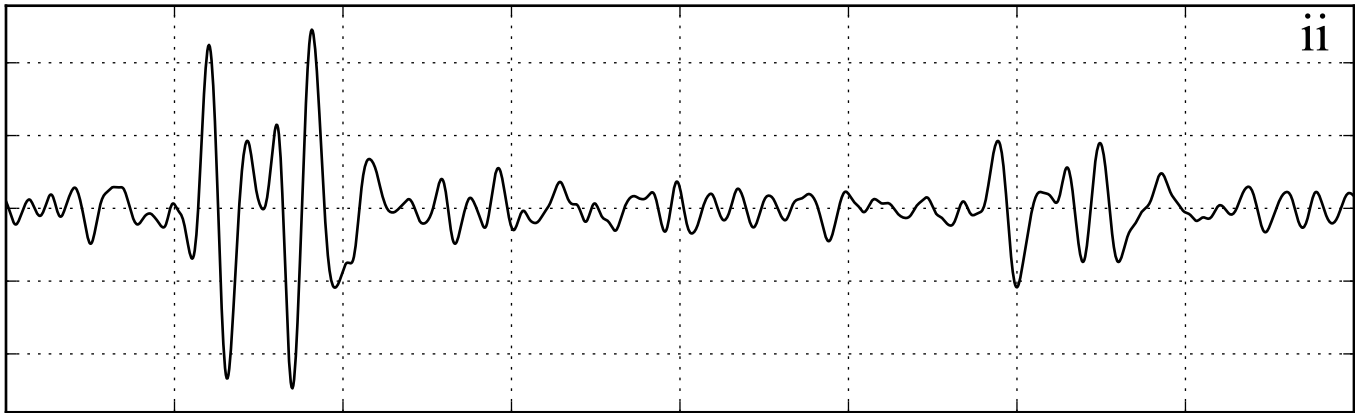
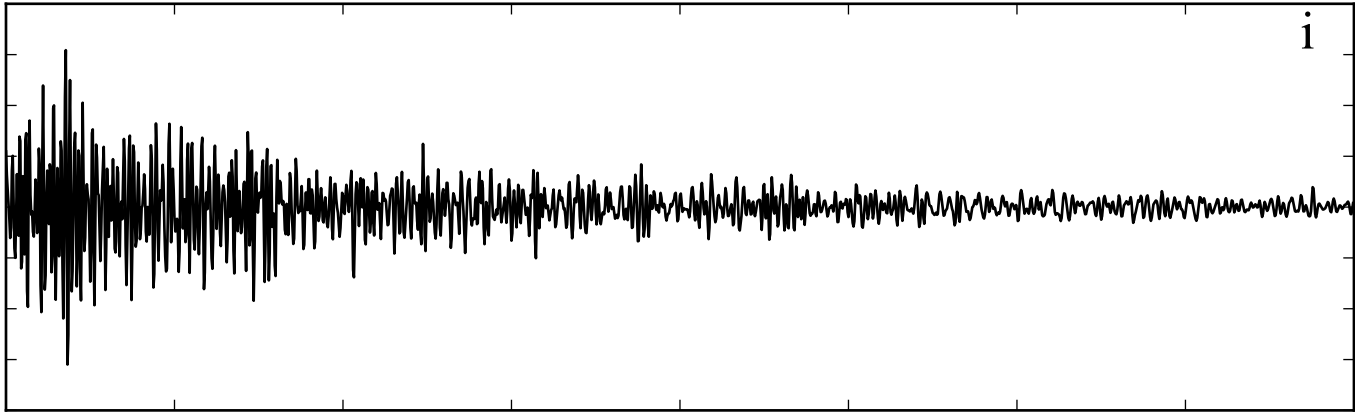




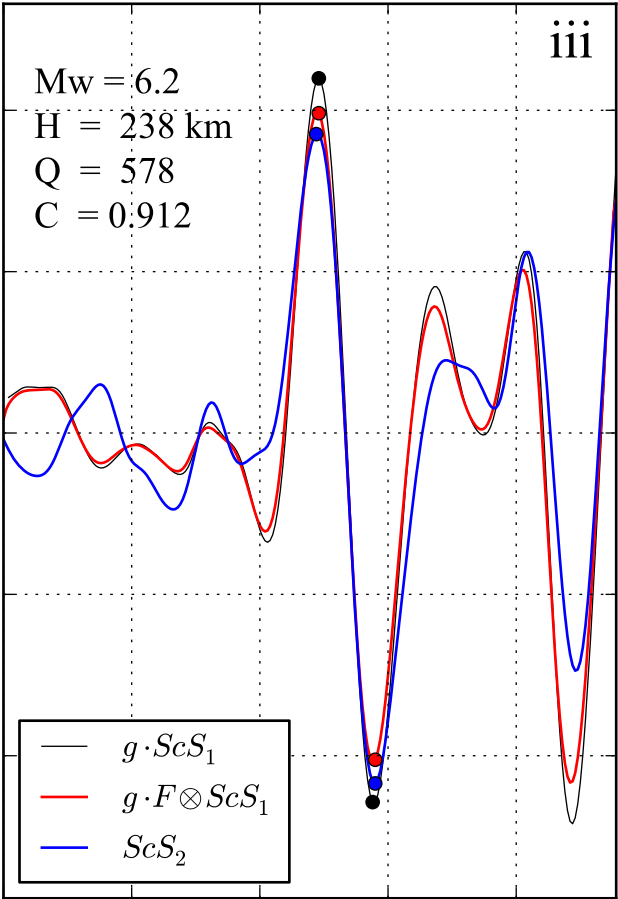
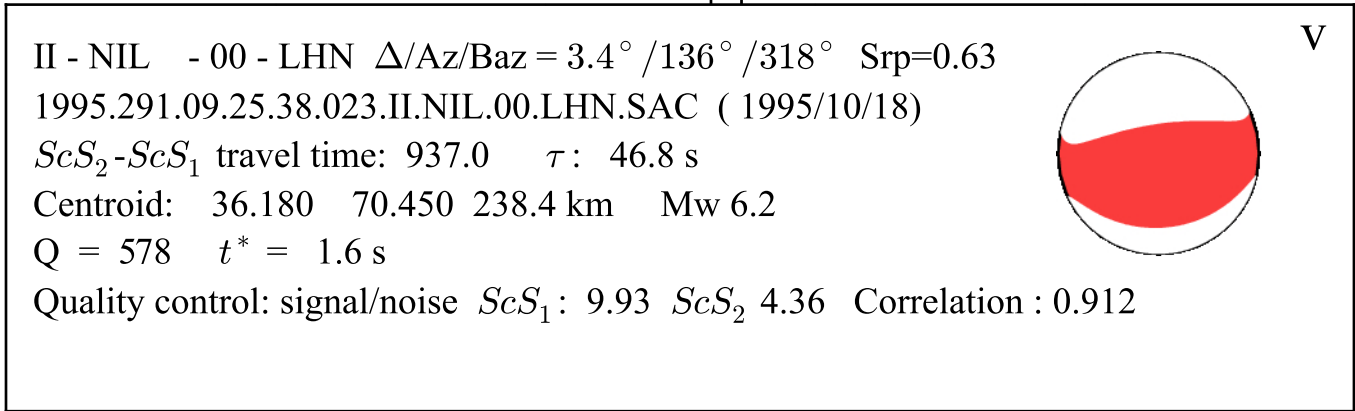


Time [s]

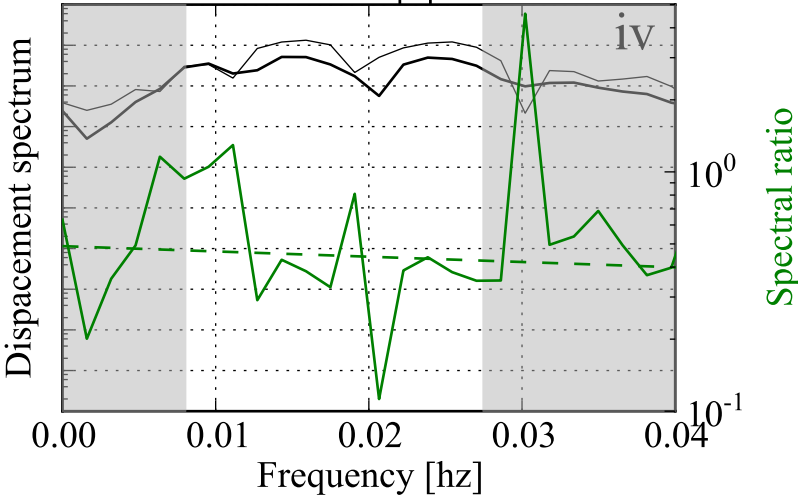


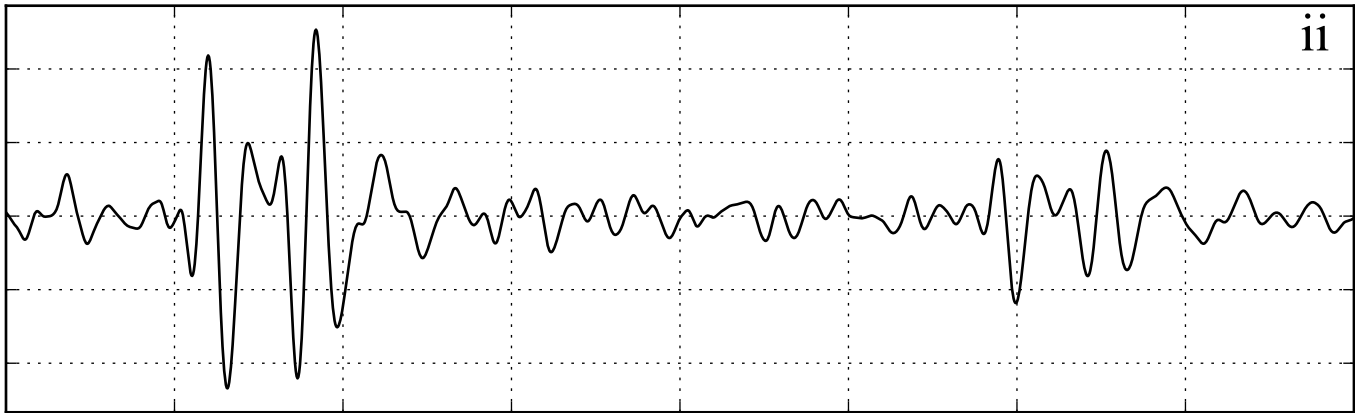
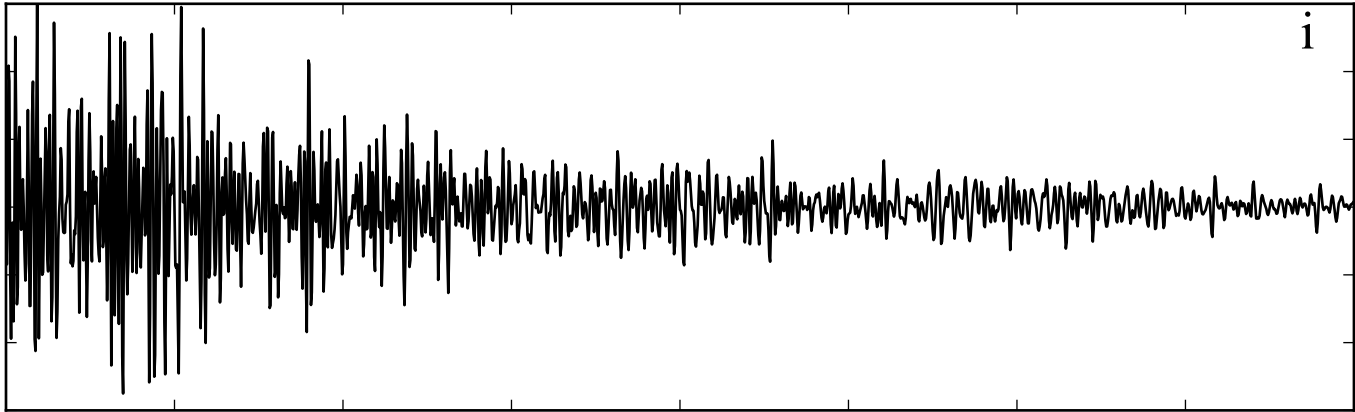


Time [s]

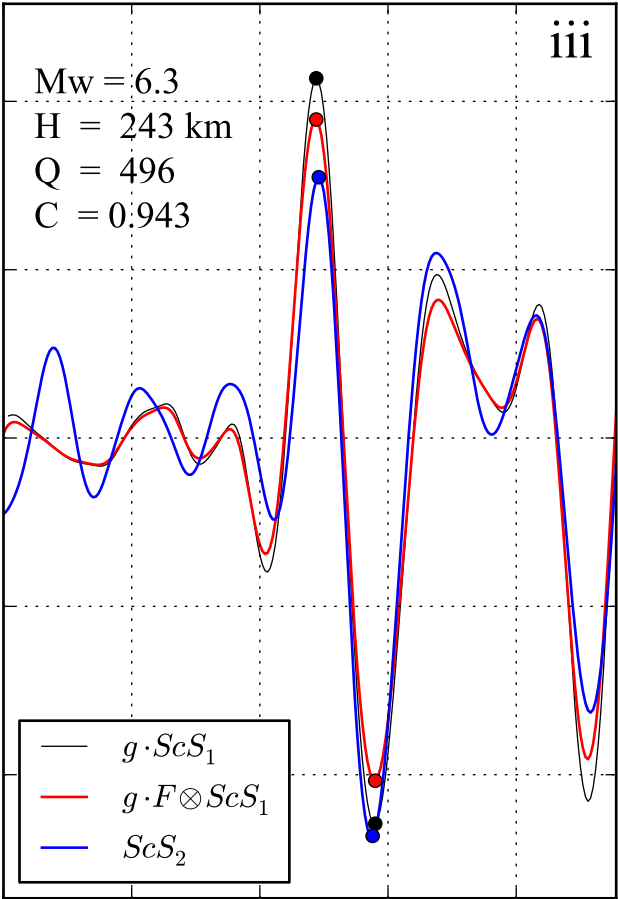
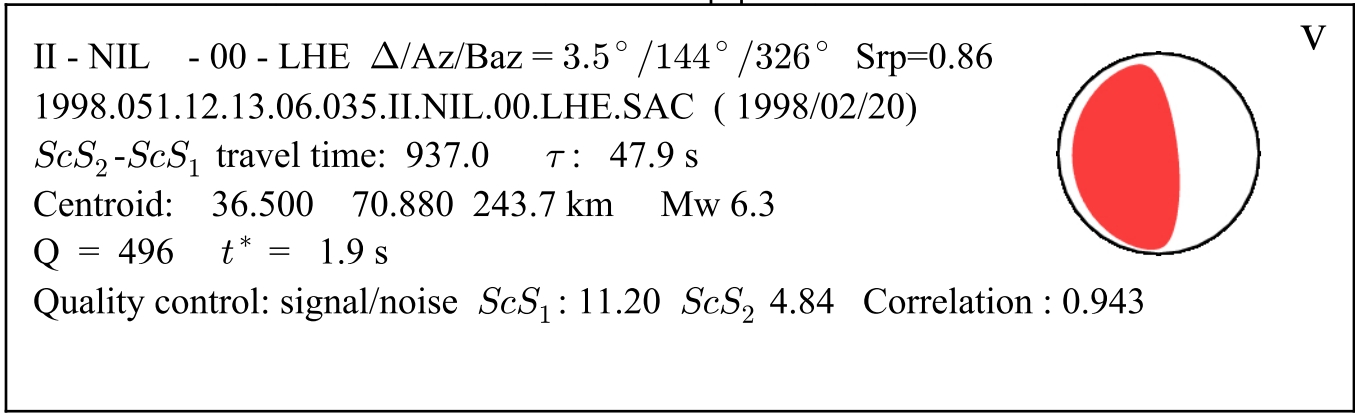


Time [s]

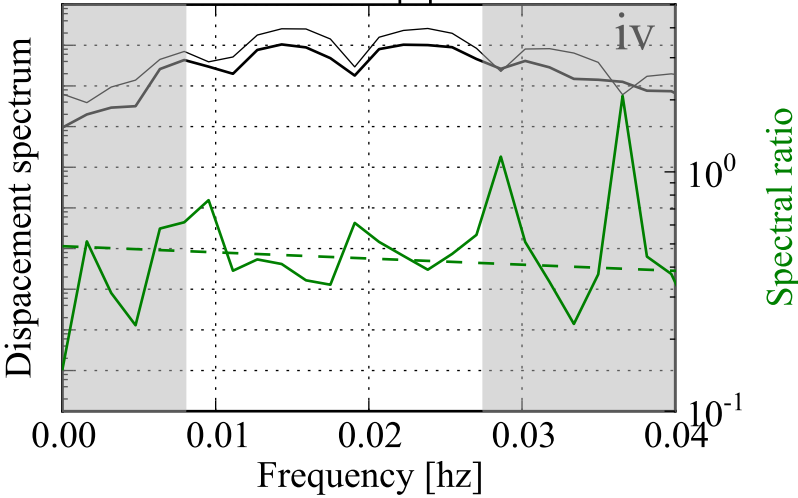


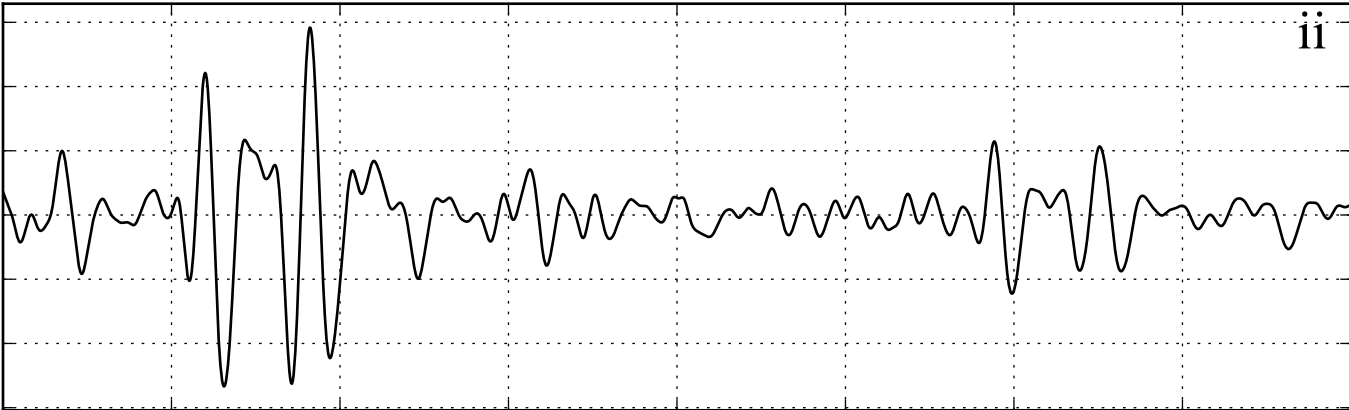
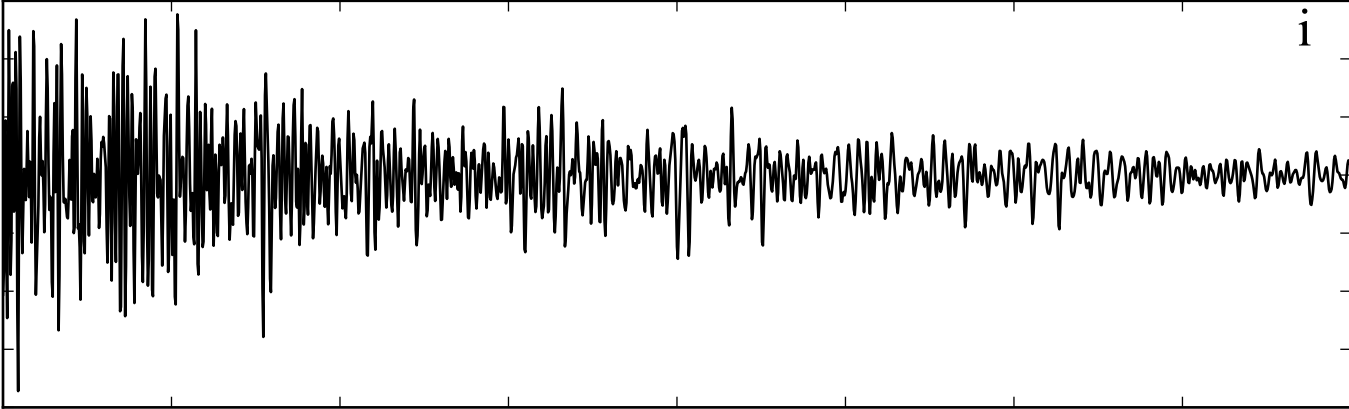


Time [s]

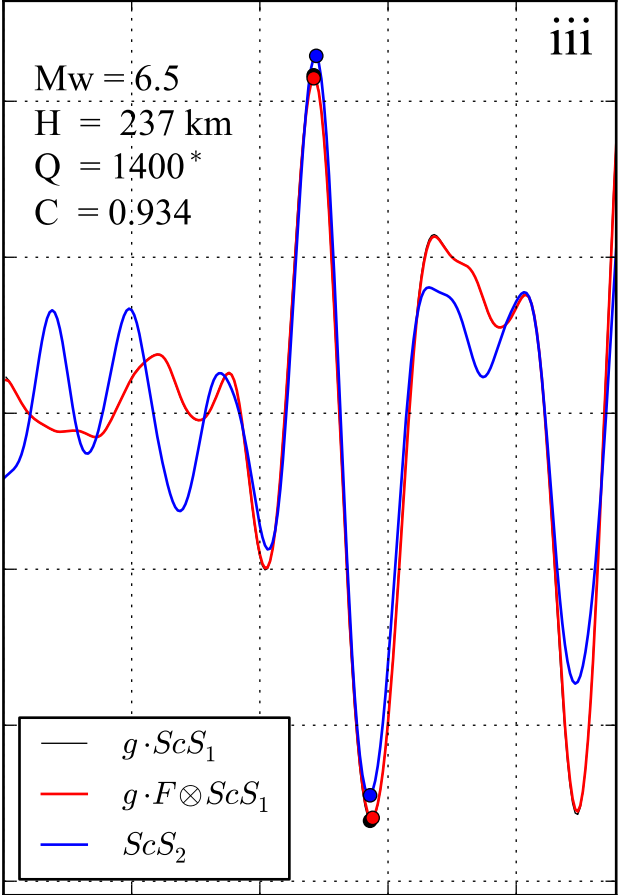
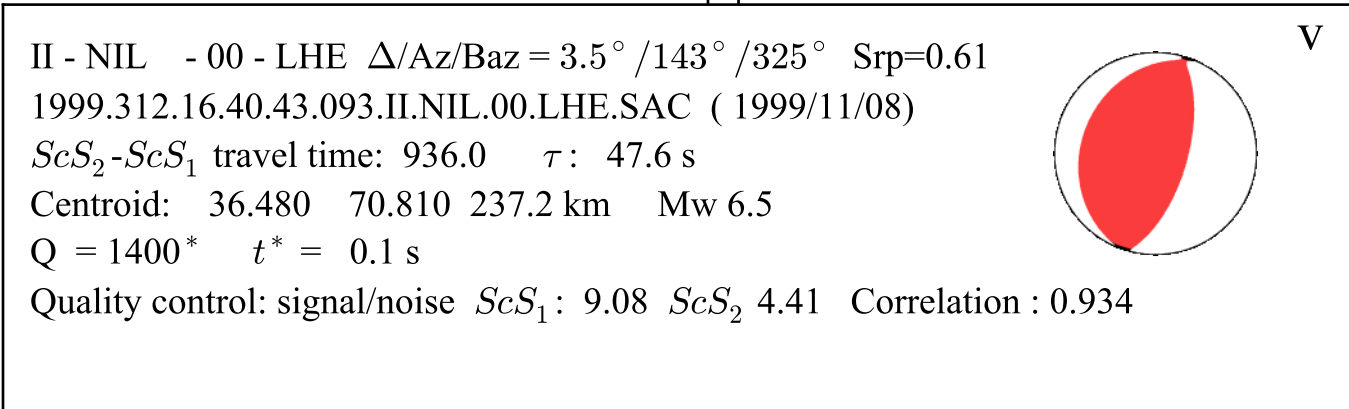


Time [s]

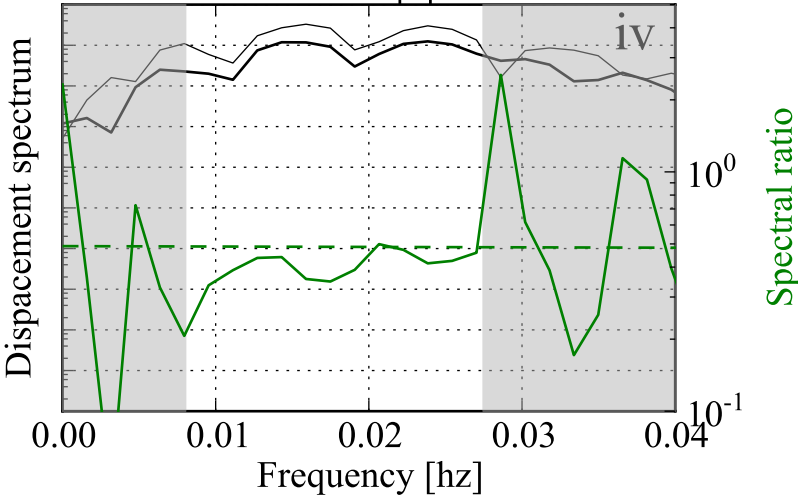


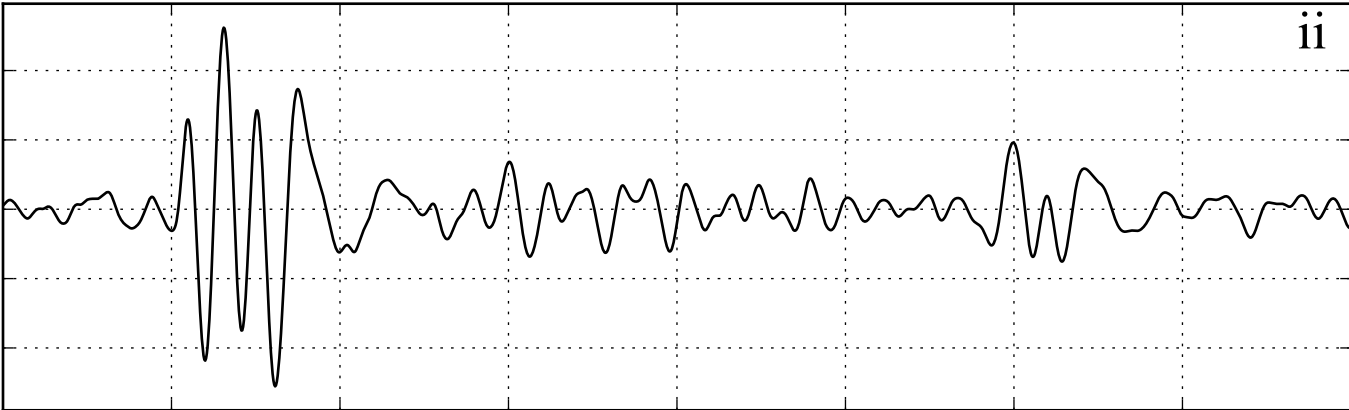
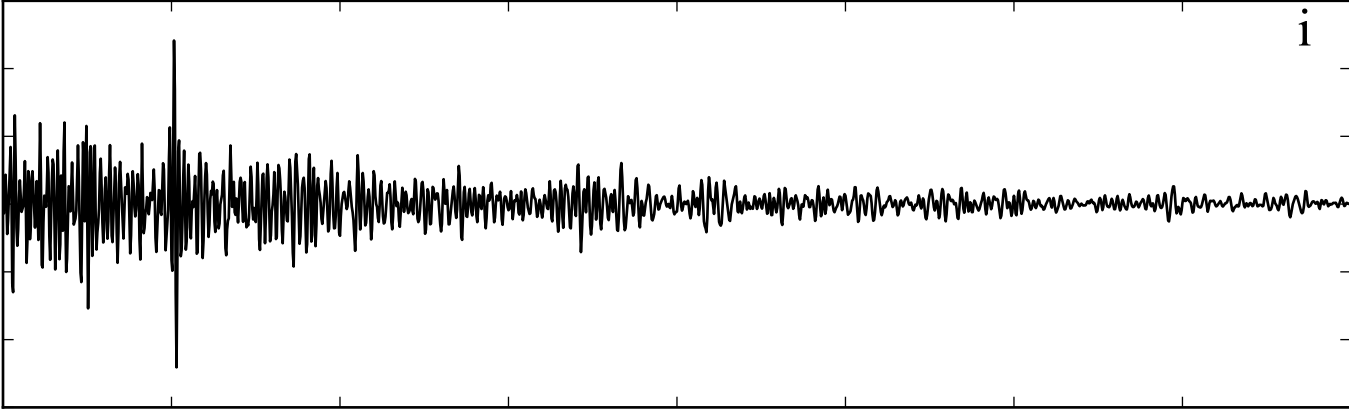


Time [s]

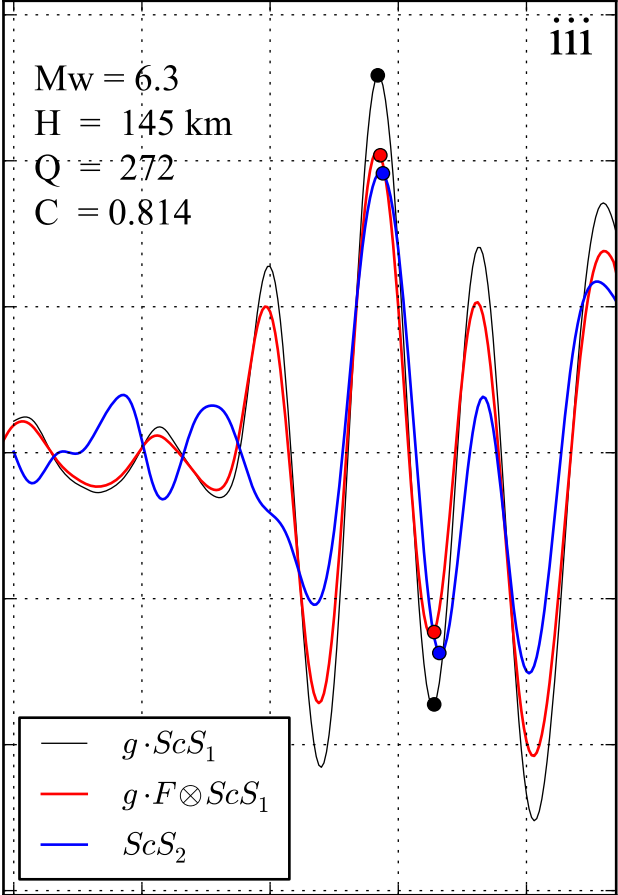
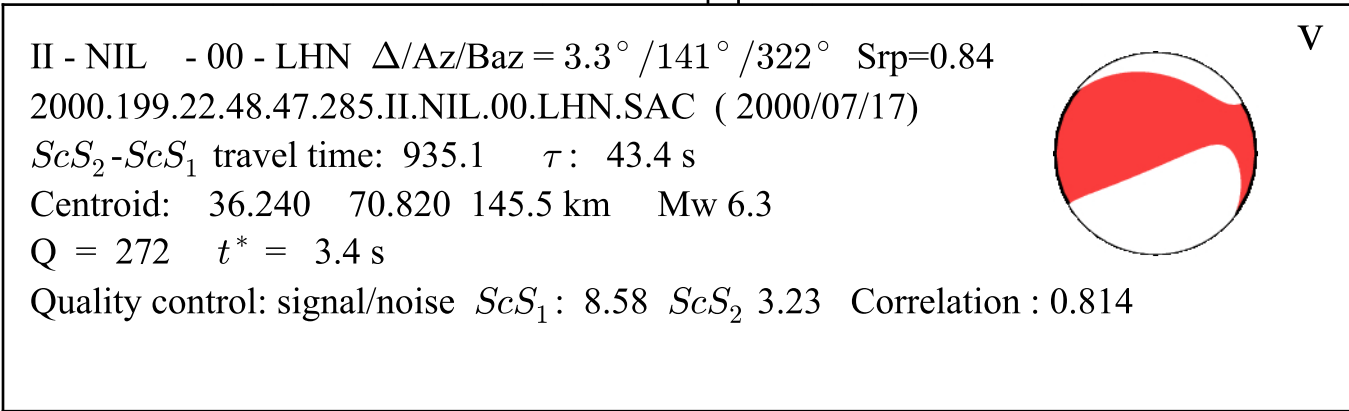


Time [s]

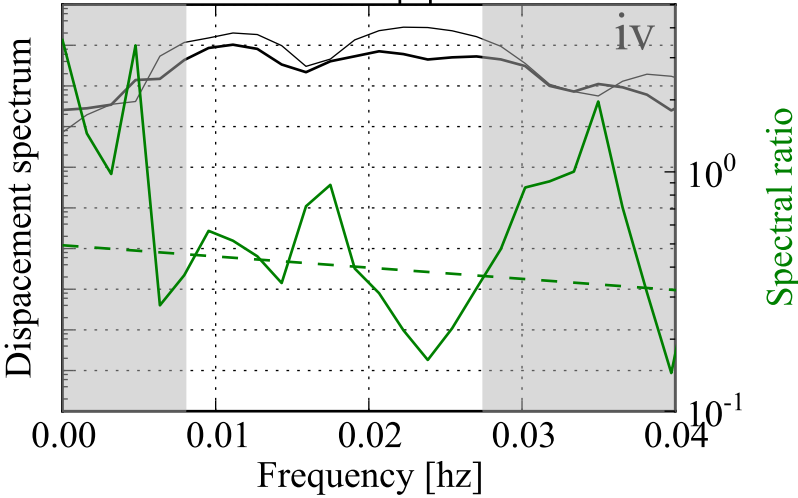


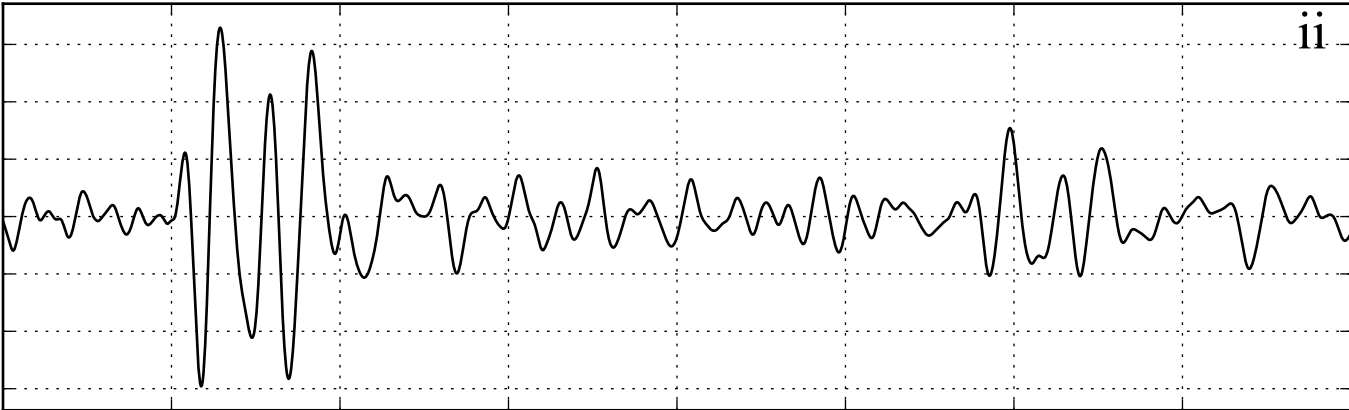
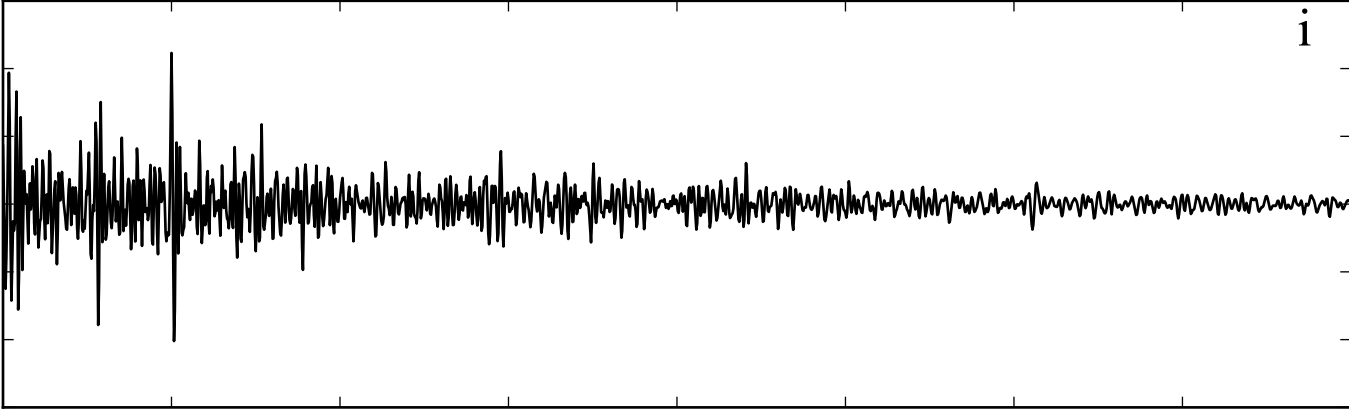


Time [s]

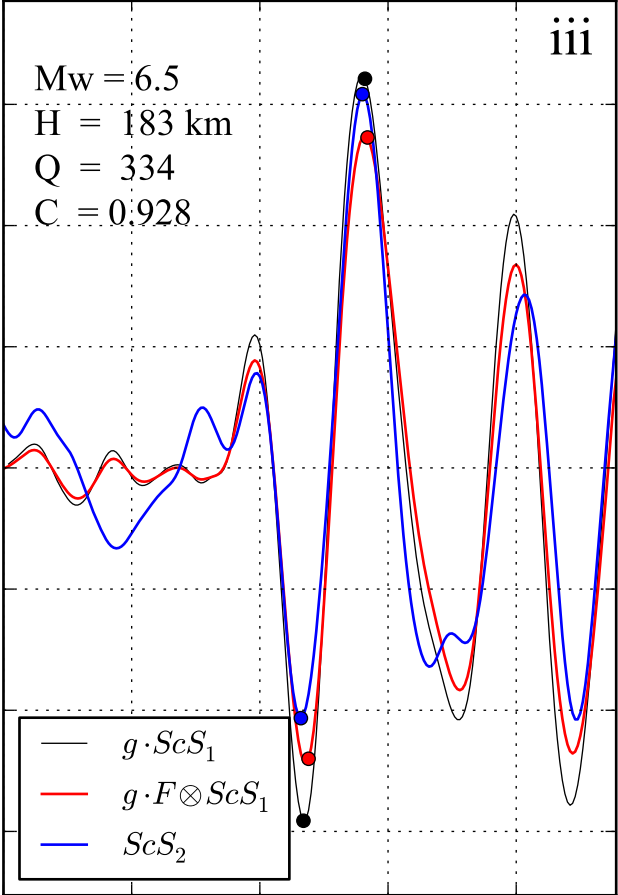
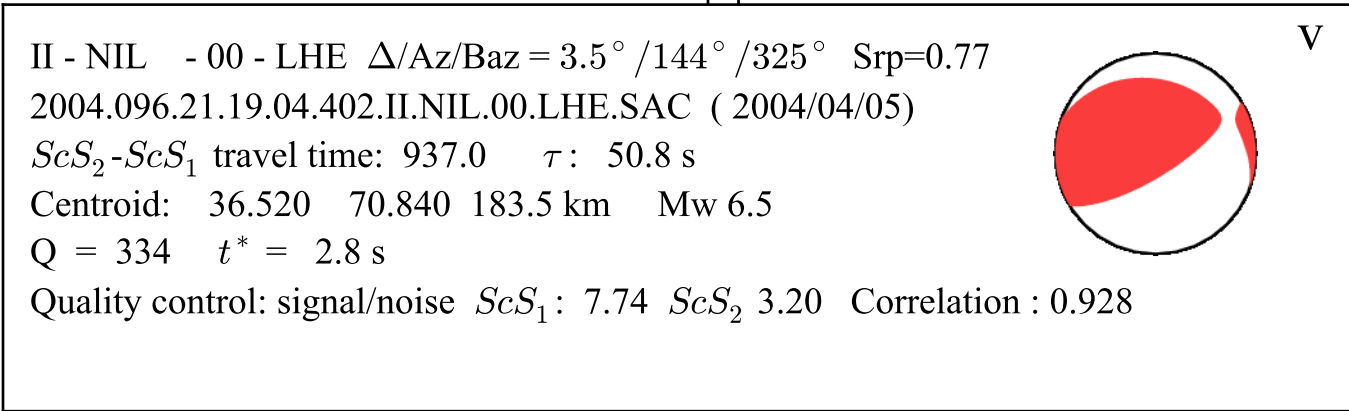


Time [s]

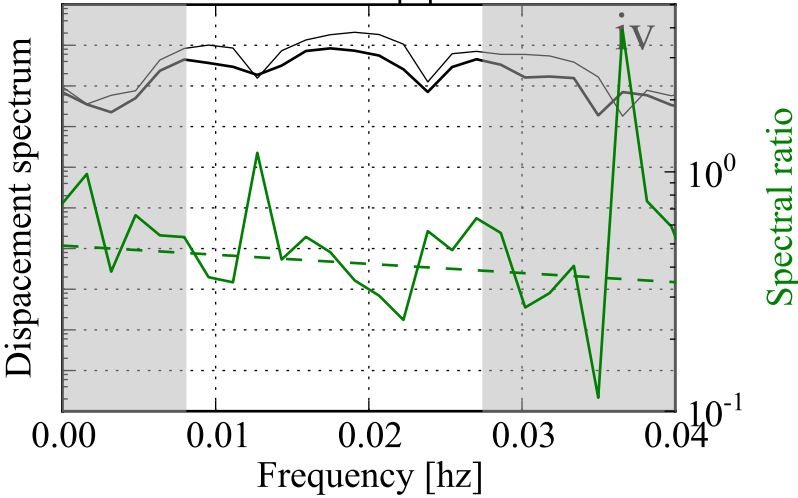


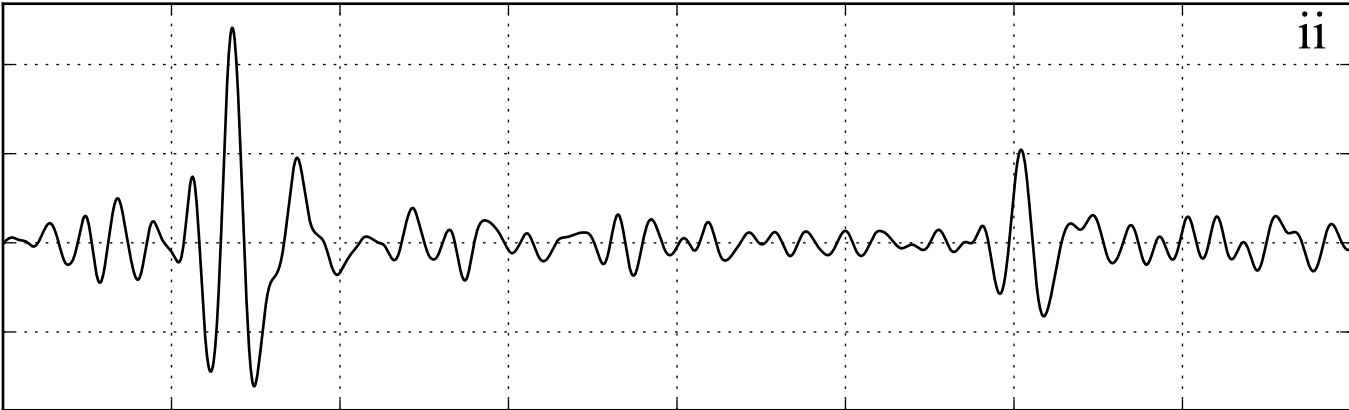
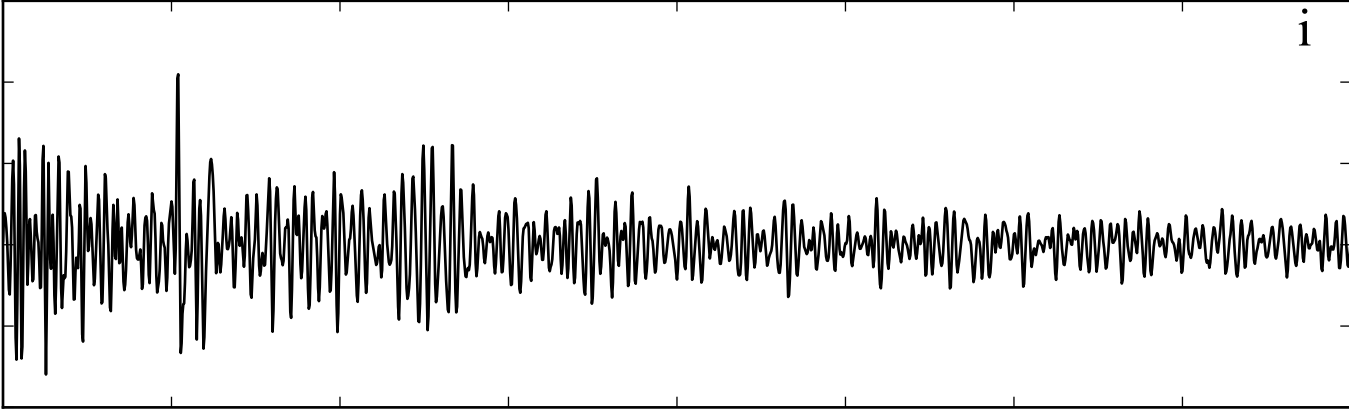


Time [s]

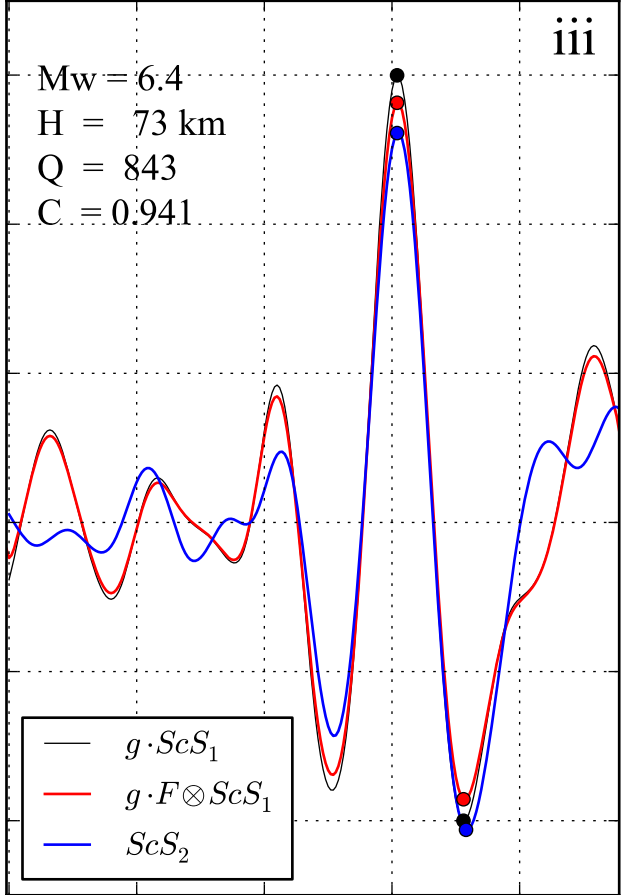
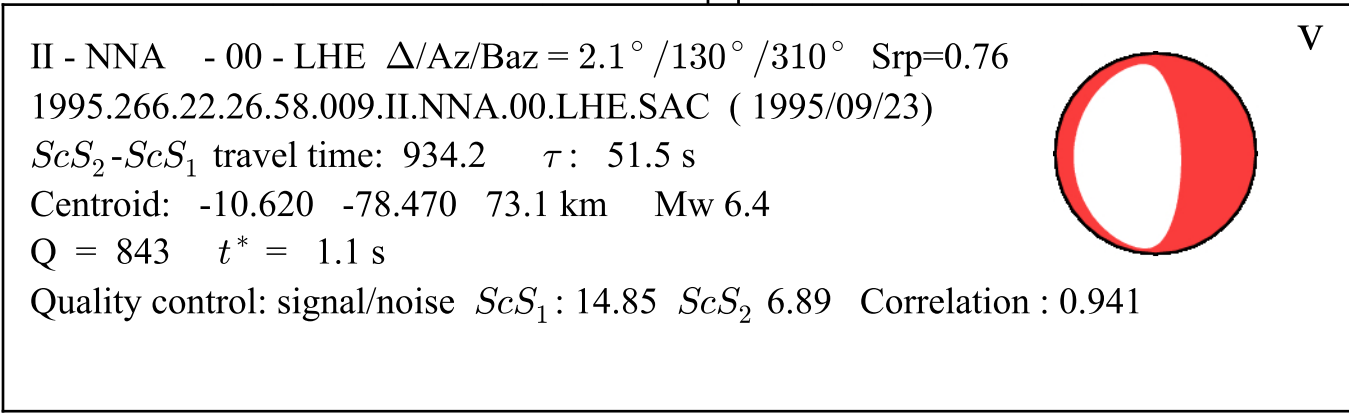


Time [s]

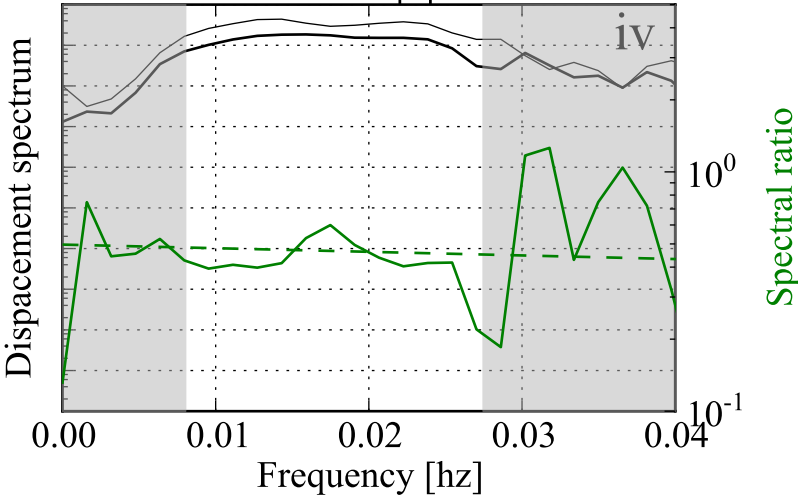


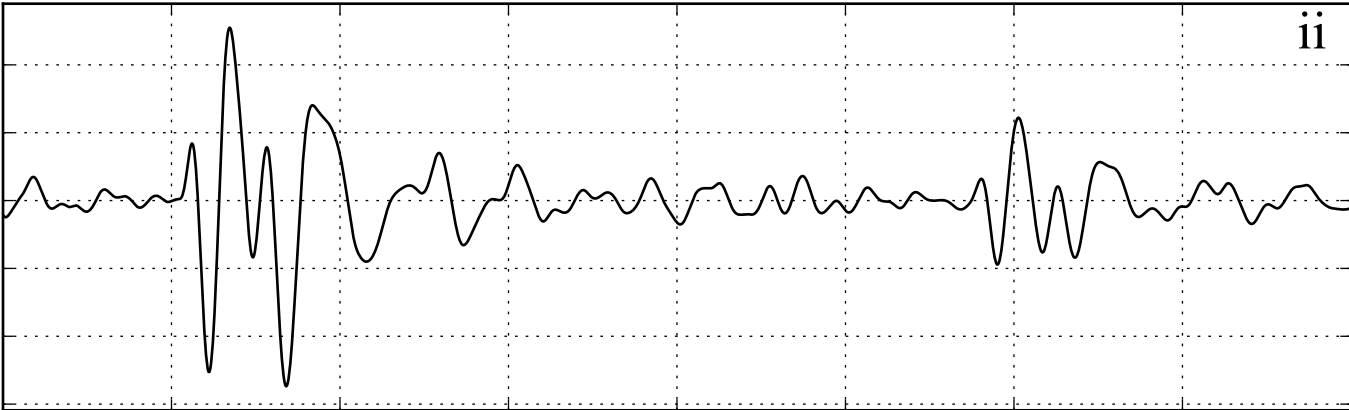
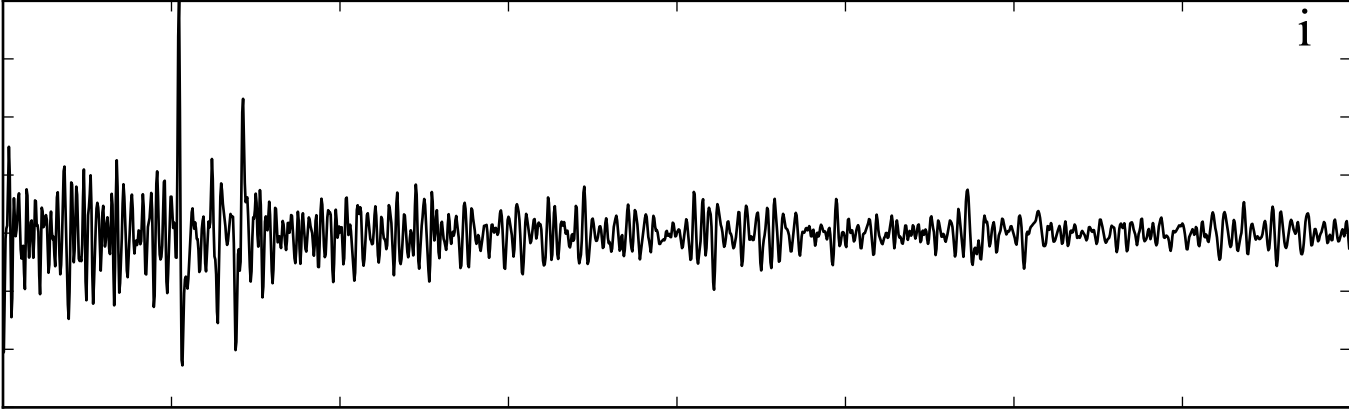


Time [s]

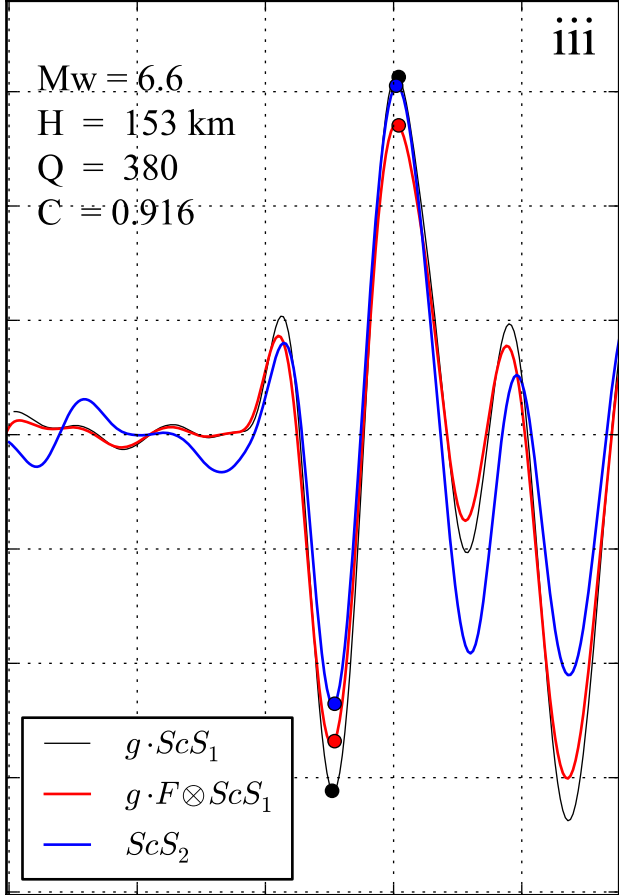
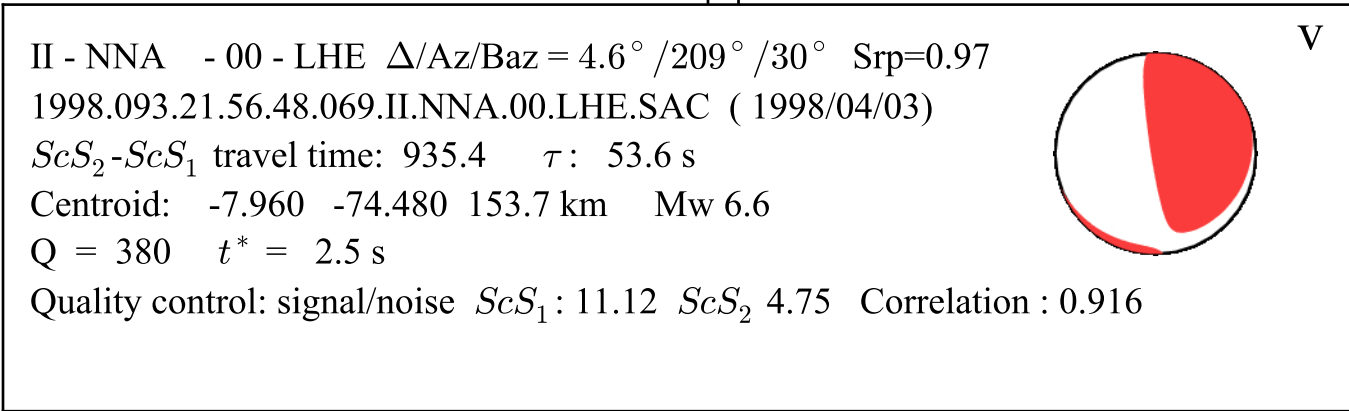


Time [s]

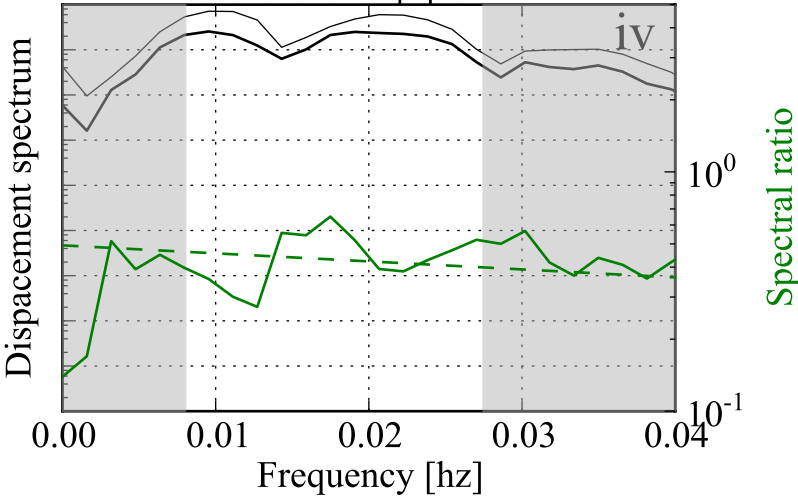


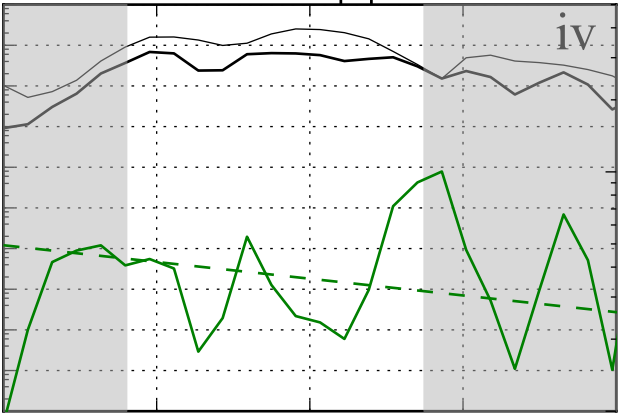
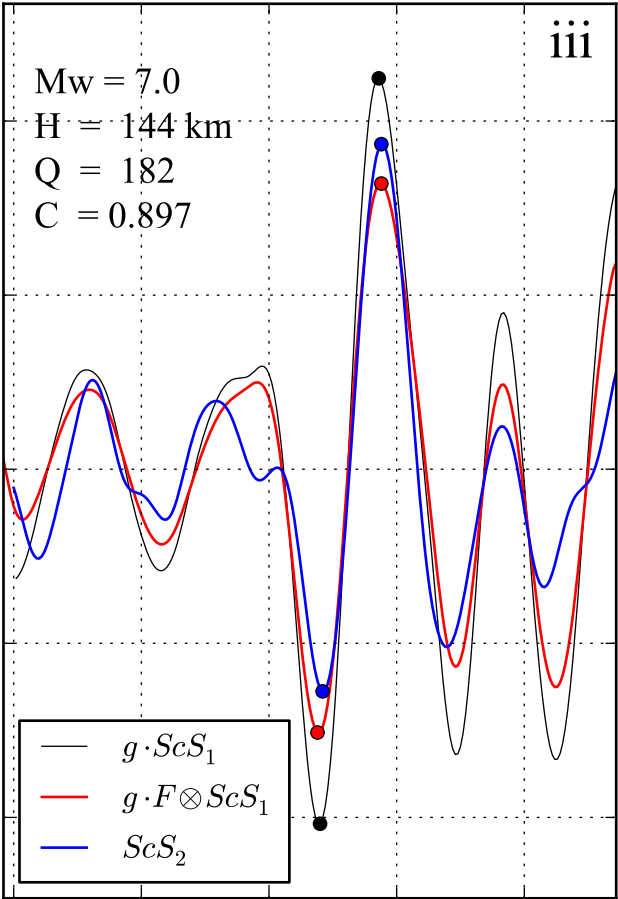
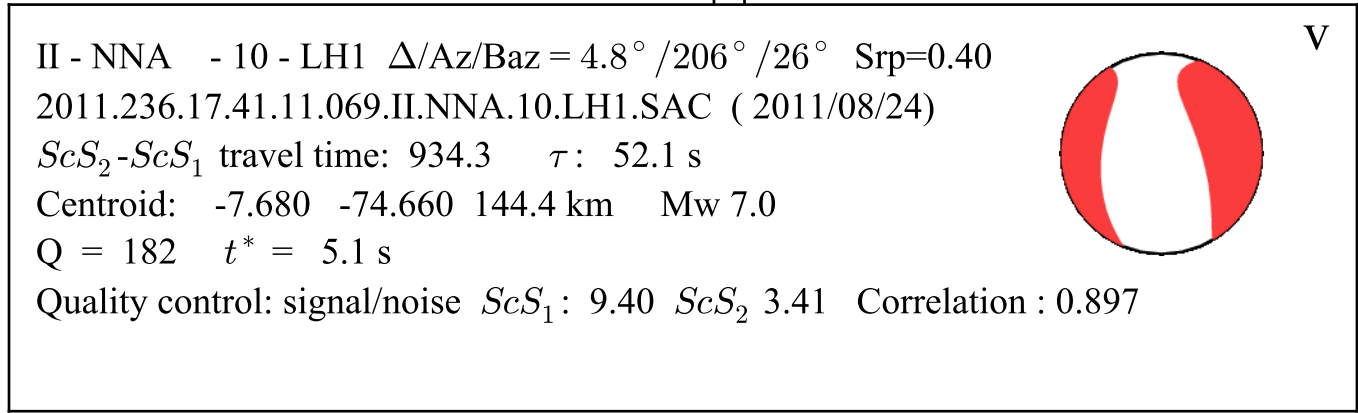
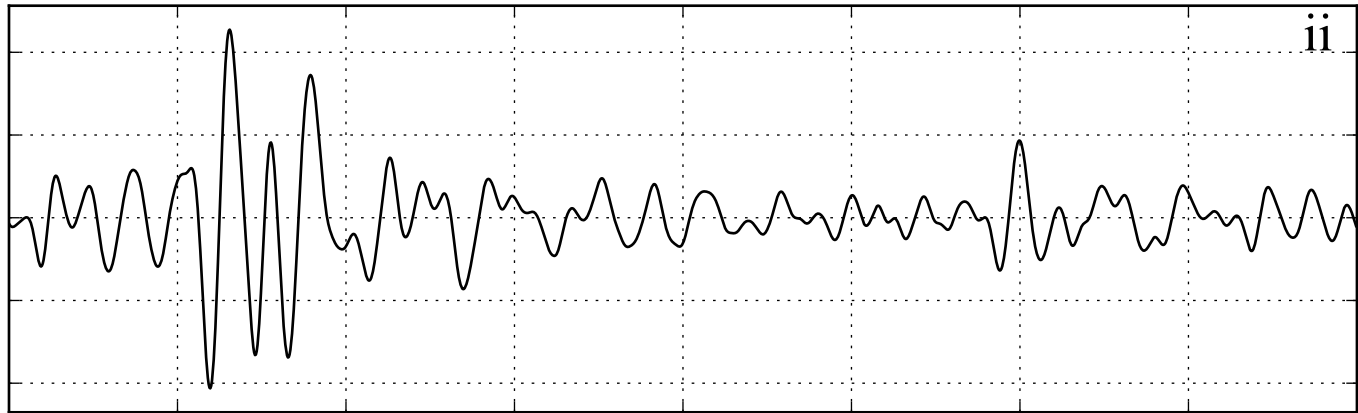
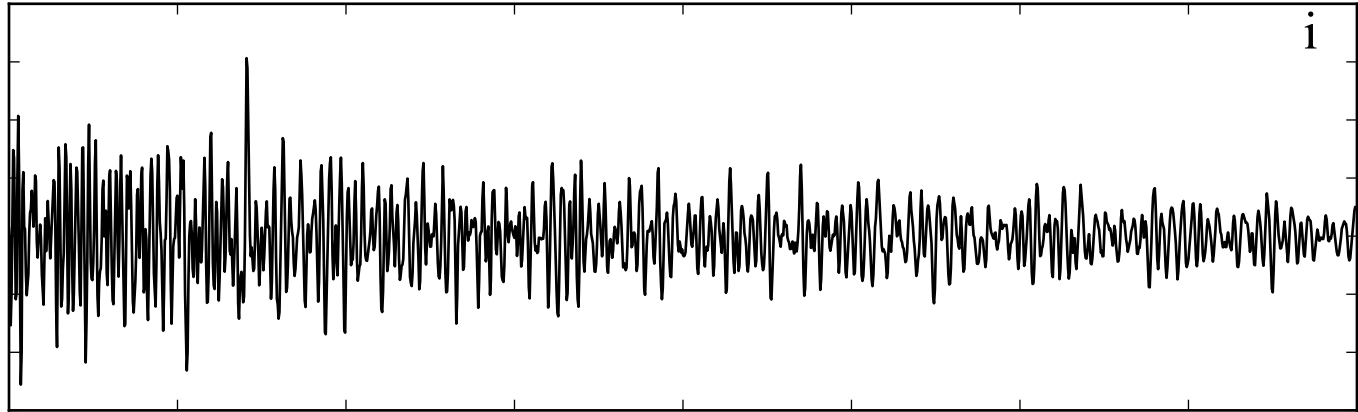


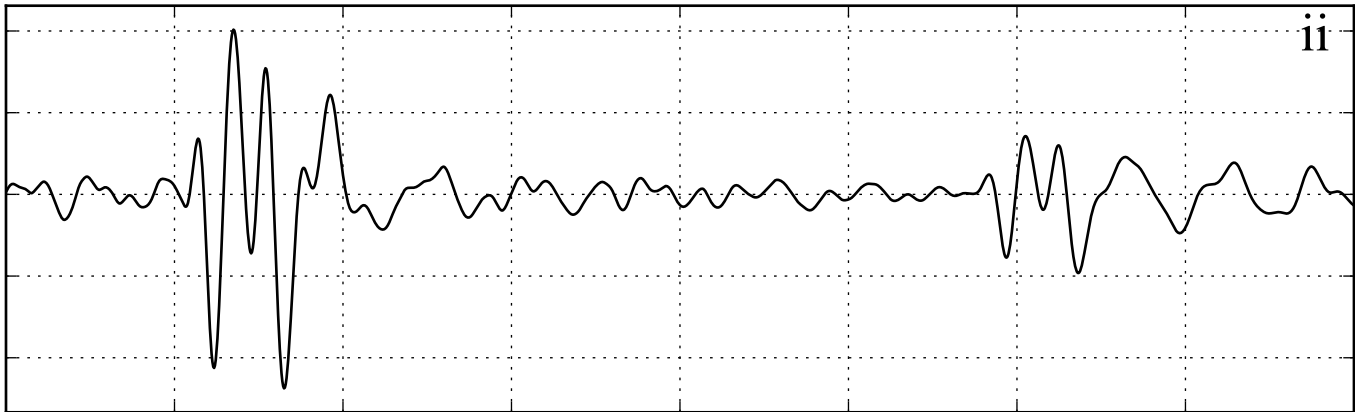
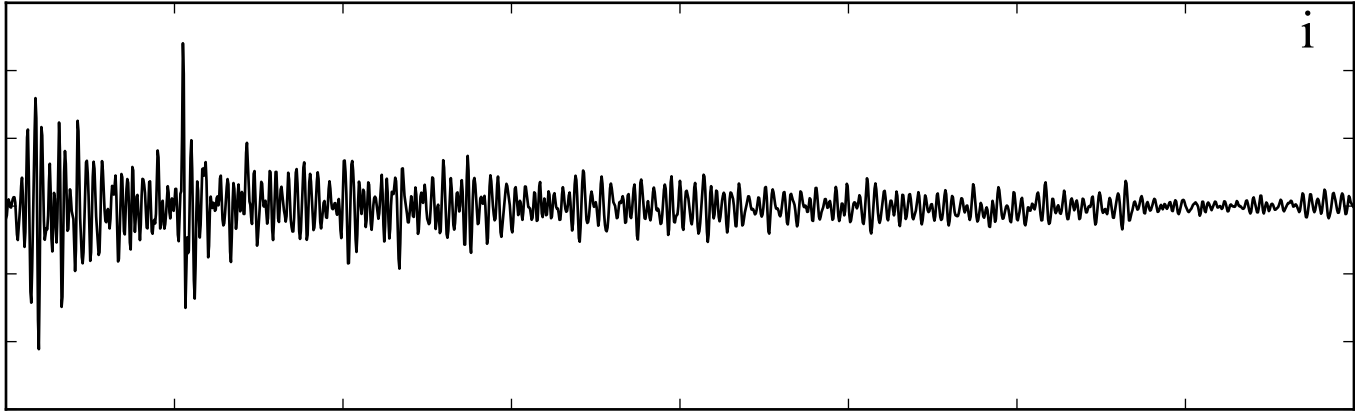
Time [s]



Time [s]

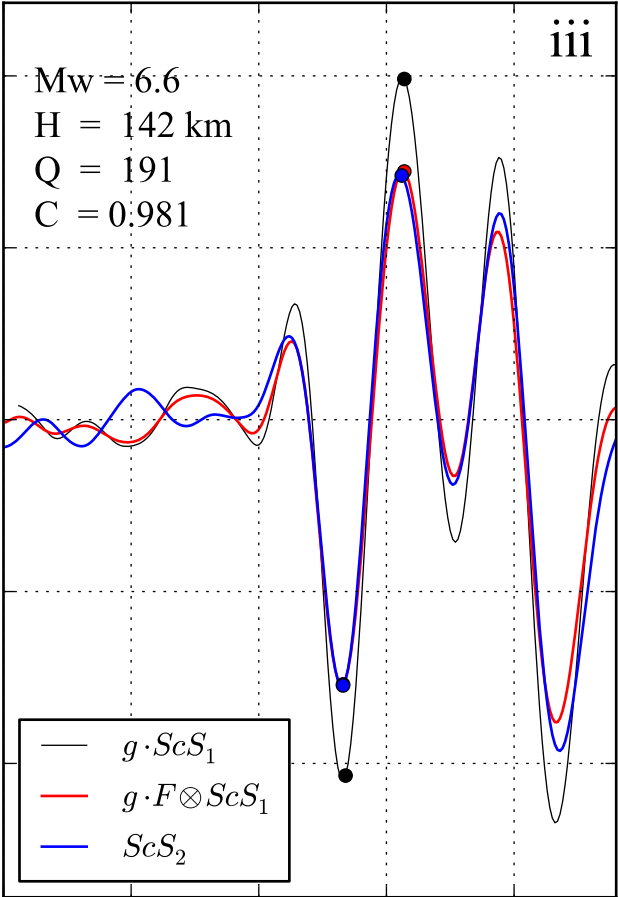




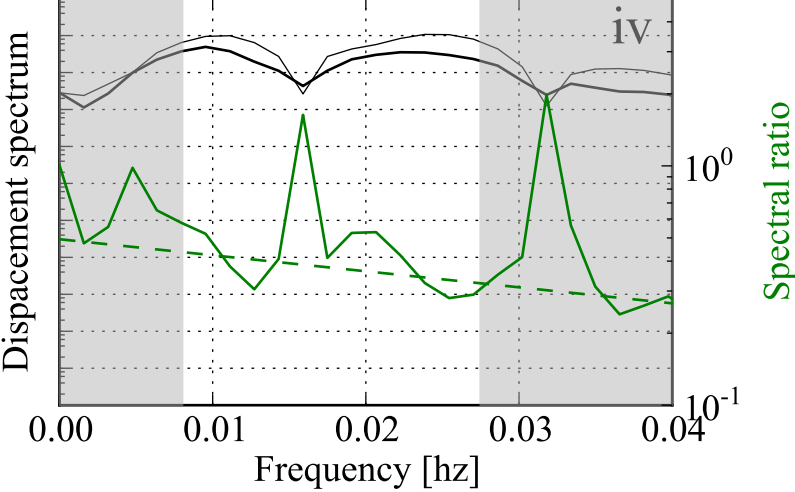


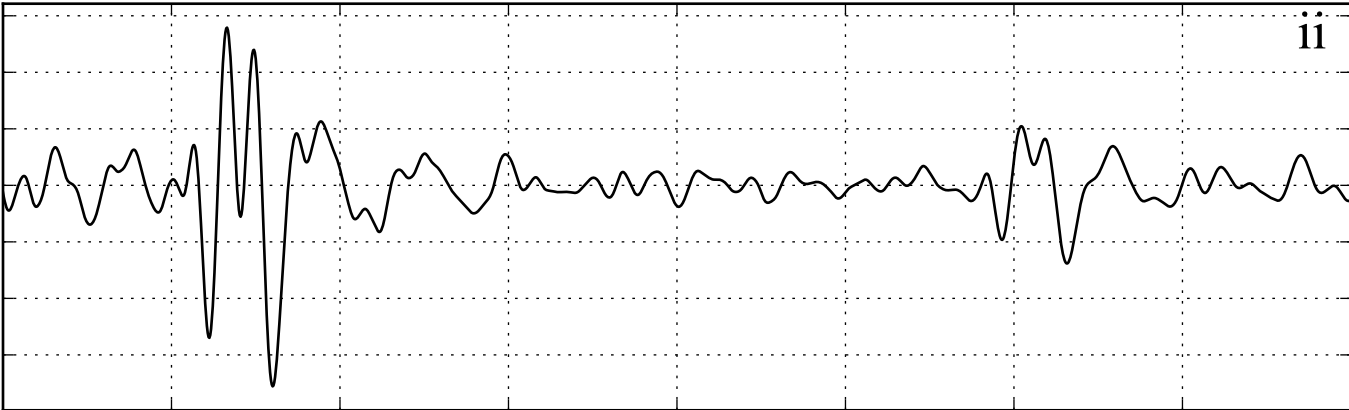
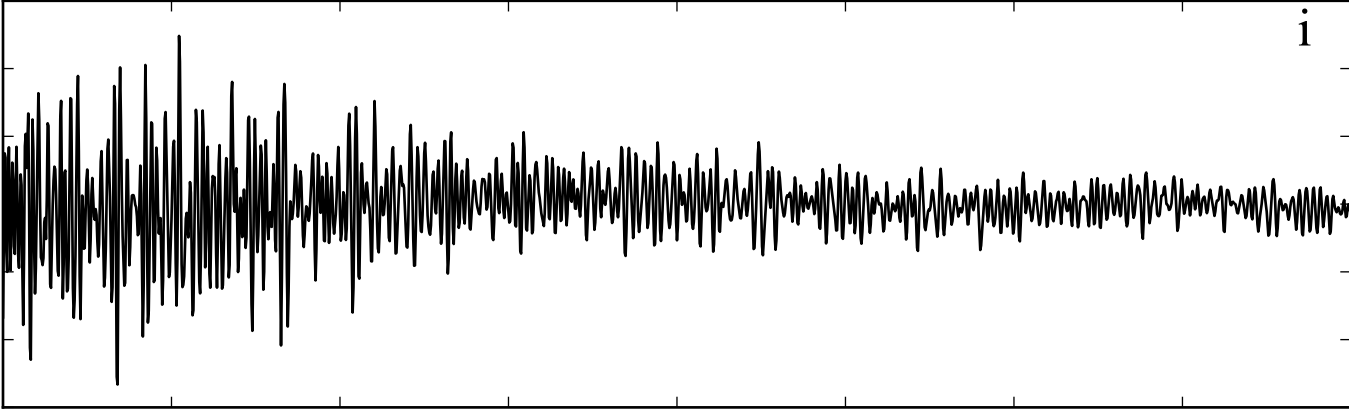
Time [s]

G - NOUC - - LHE $\Delta/Az/Baz = 3.6^\circ / 222^\circ / 43^\circ$ $Srp=0.96$
1995.180.12.19.03.212.G.NOUC..LHE.SAC (1995/06/29)
 ScS_2-ScS_1 travel time: 940.1 τ : 46.2 s
Centroid: -19.420 168.950 142.7 km Mw 6.6
 $Q = 191$ $t^* = 4.9$ s
Quality control: signal/noise ScS_1 : 15.81 ScS_2 5.72 Correlation : 0.981

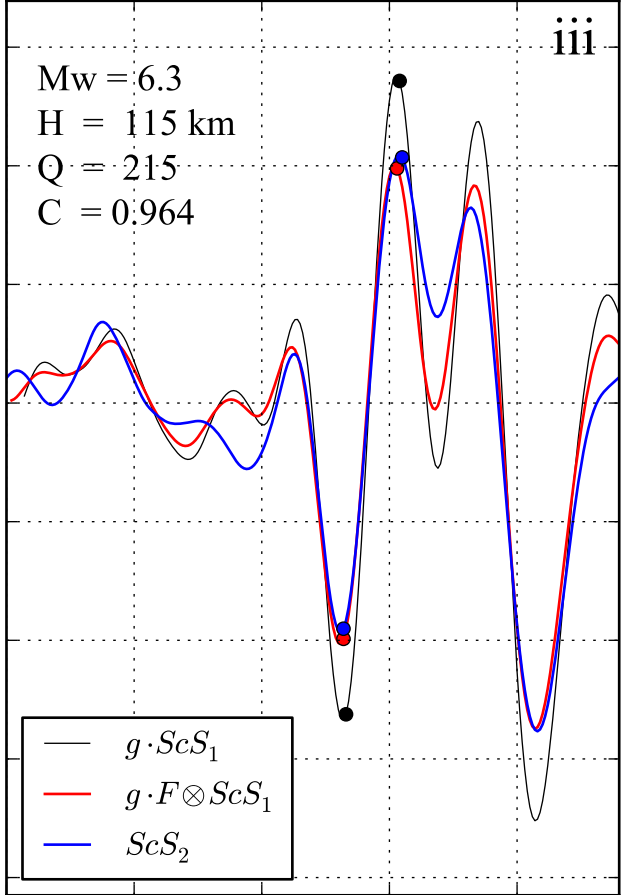
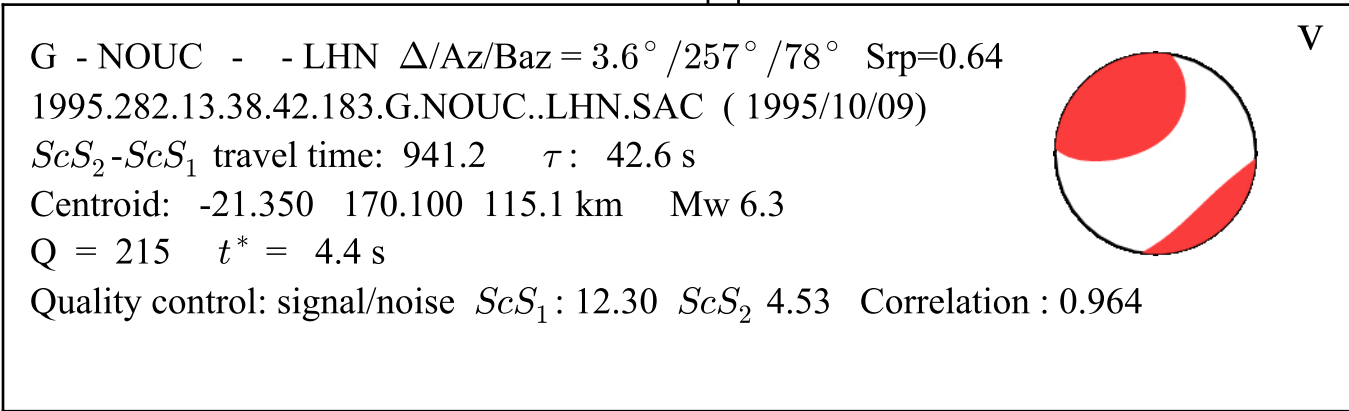


Time [s]

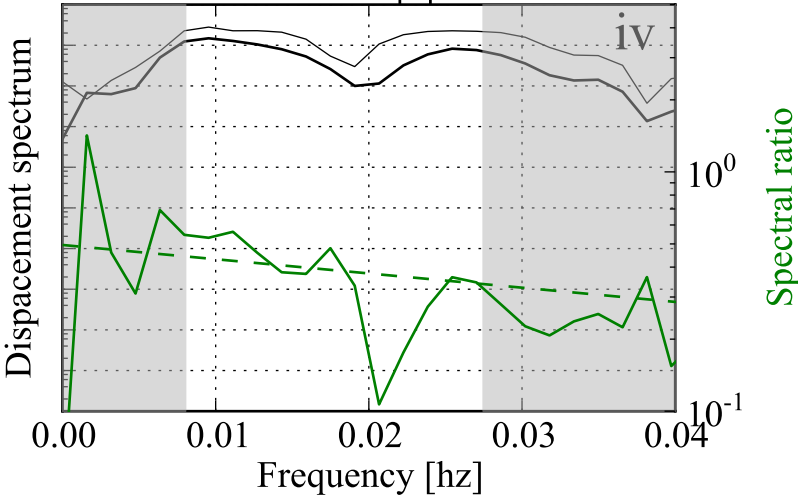


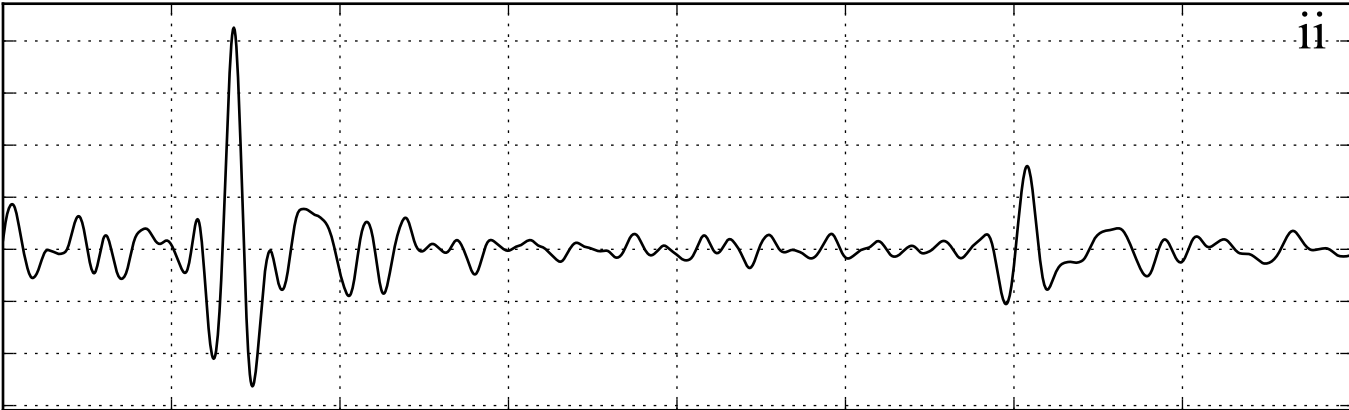
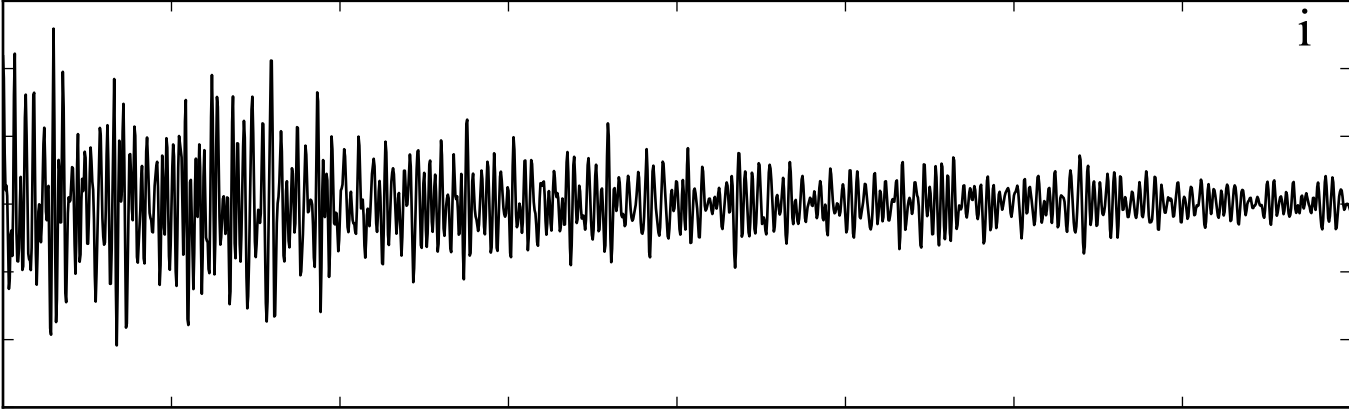


Time [s]



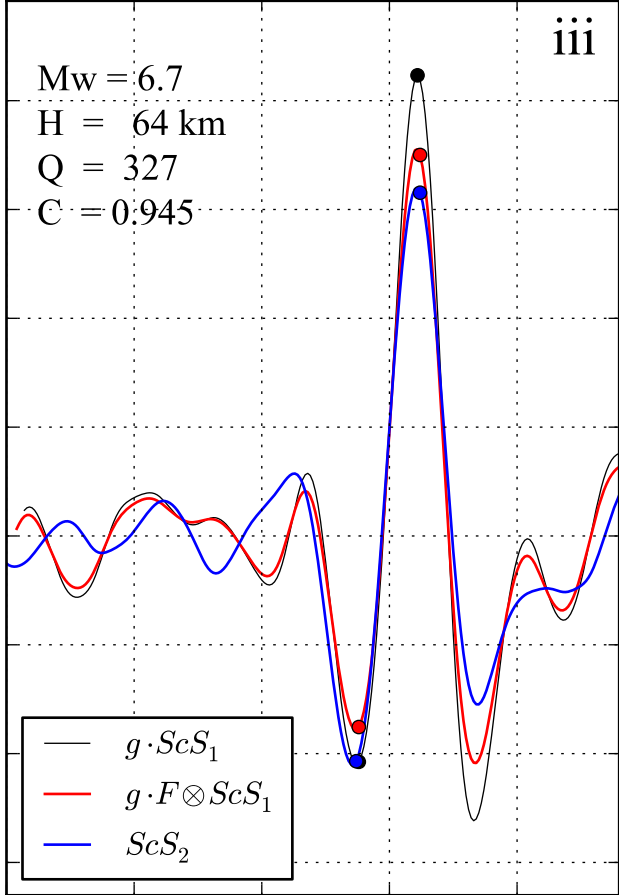
Time [s]



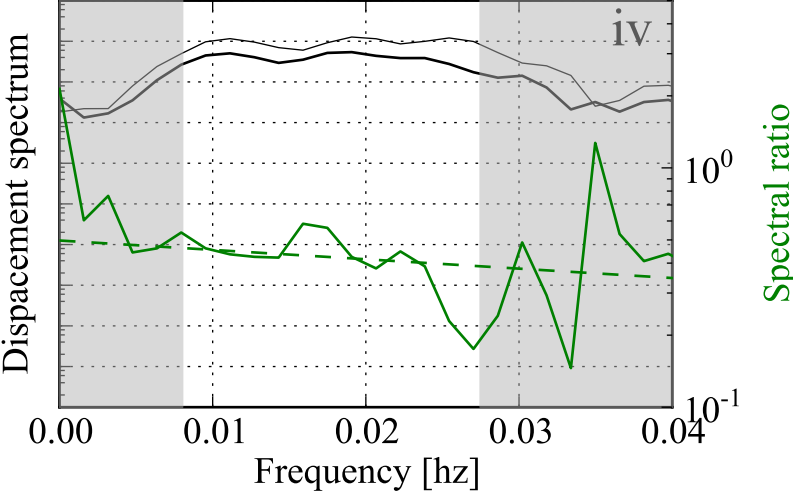


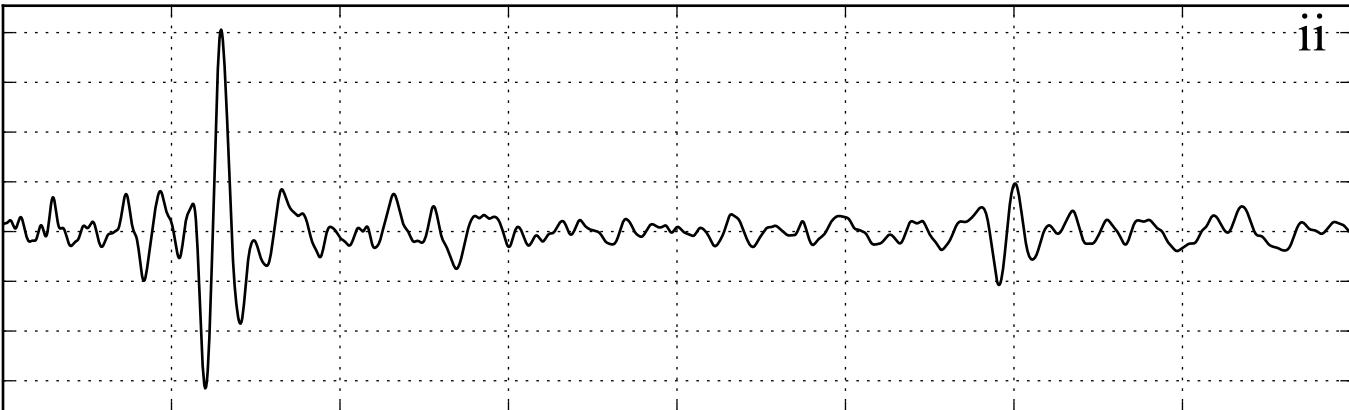
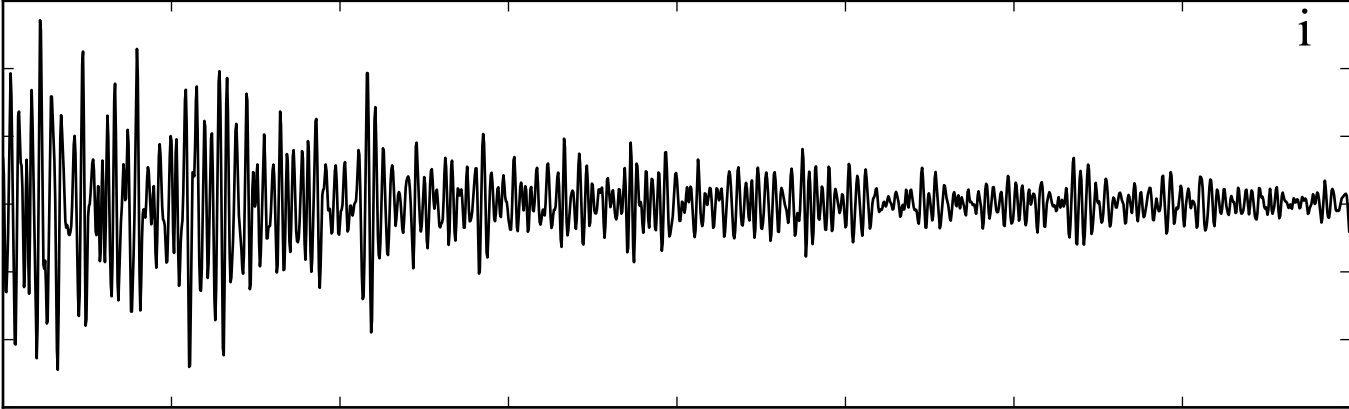
Time [s]

G - NOUC - - LHE $\Delta/Az/Baz = 3.1^\circ/234^\circ/55^\circ$ $Srp=0.68$
1997.141.14.05.26.584.G.NOUC..LHE.SAC (1997/05/21)
 ScS_2-ScS_1 travel time: 941.3 τ : 47.9 s
Centroid: -20.340 169.030 64.0 km Mw 6.7
 $Q = 327$ $t^* = 2.9$ s
Quality control: signal/noise ScS_1 : 15.54 ScS_2 6.40 Correlation : 0.945

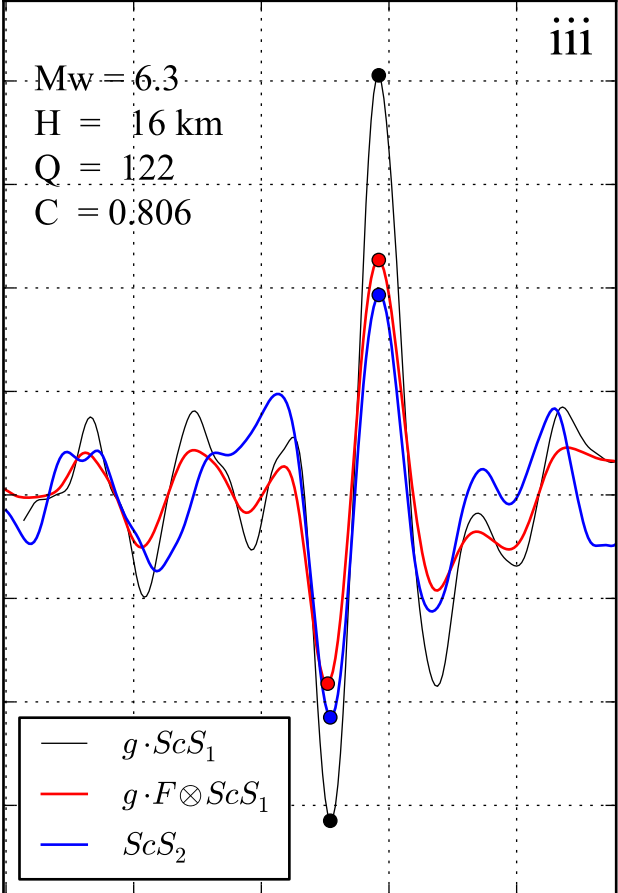
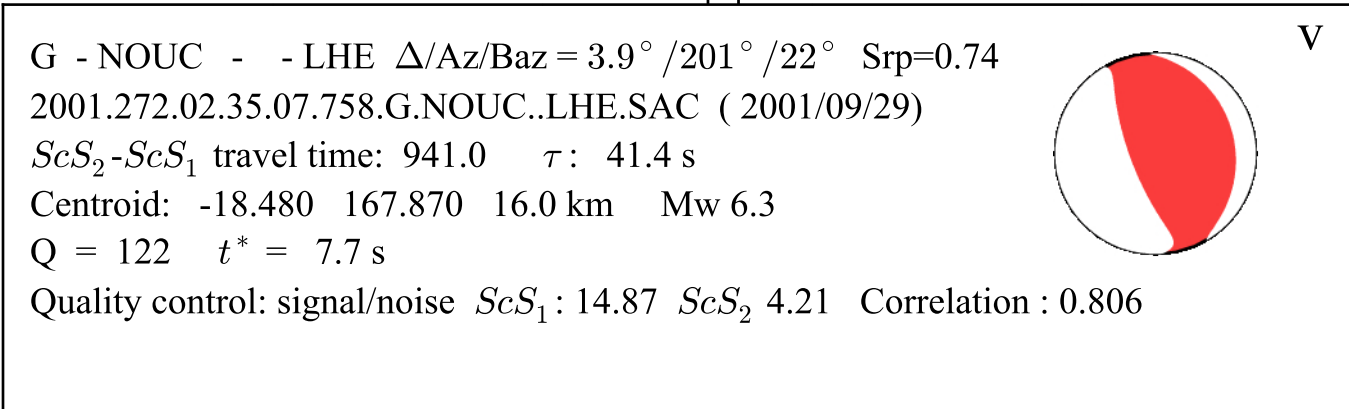


Time [s]

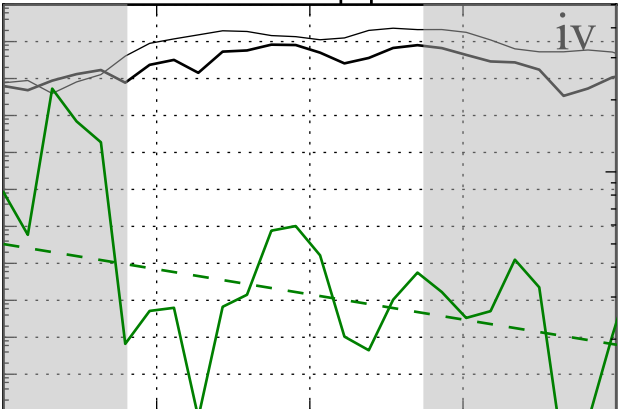




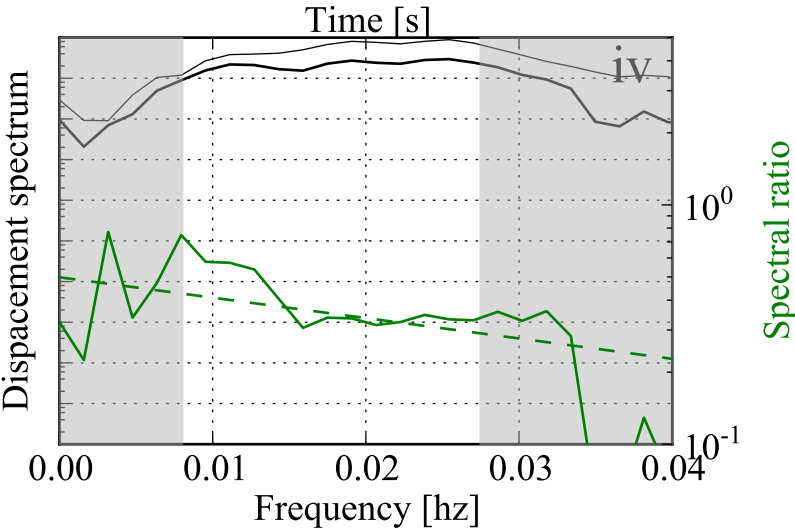
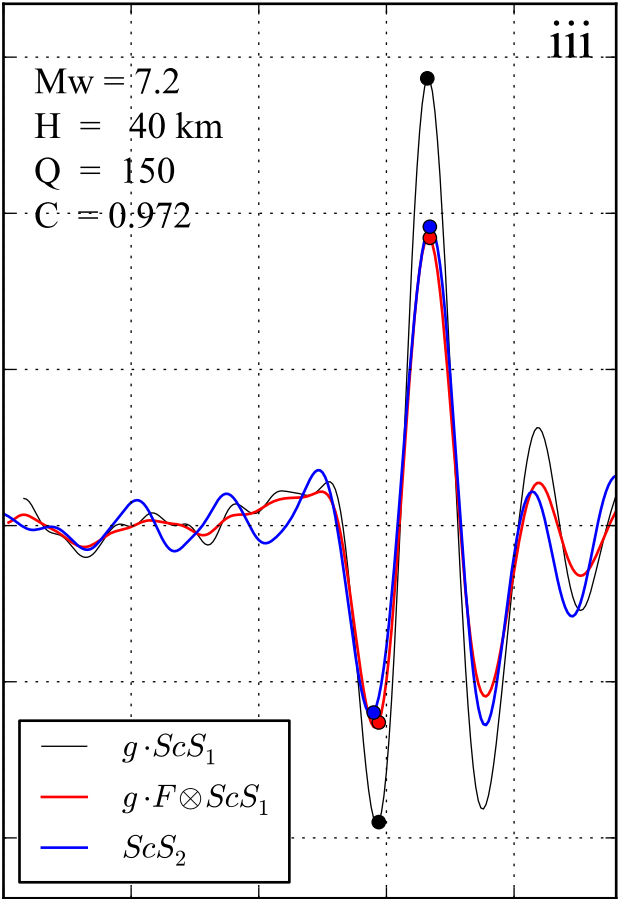
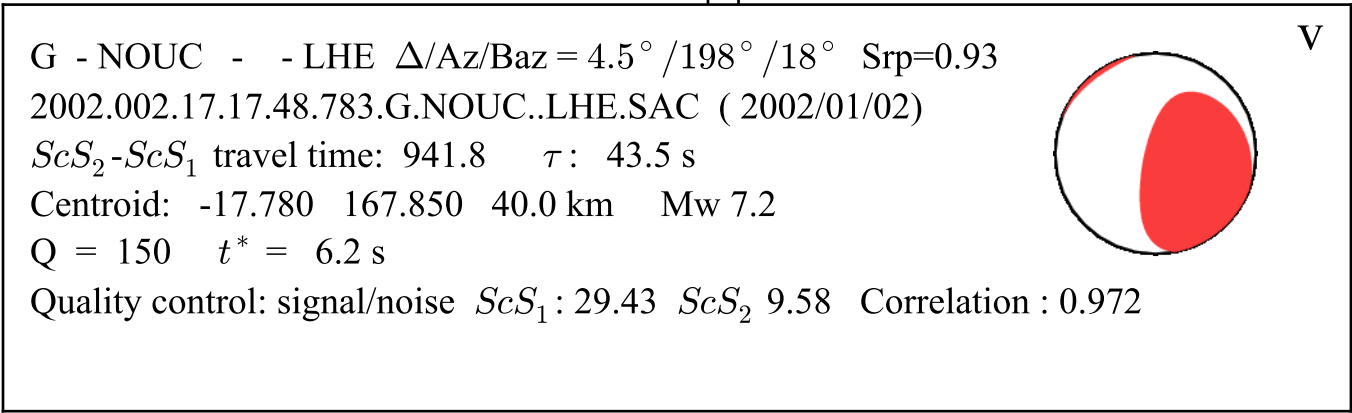
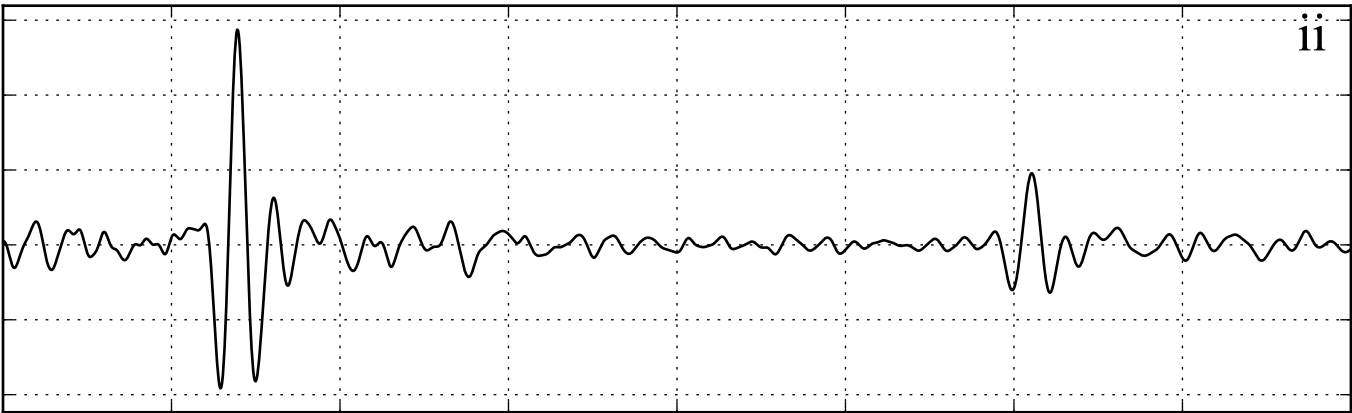
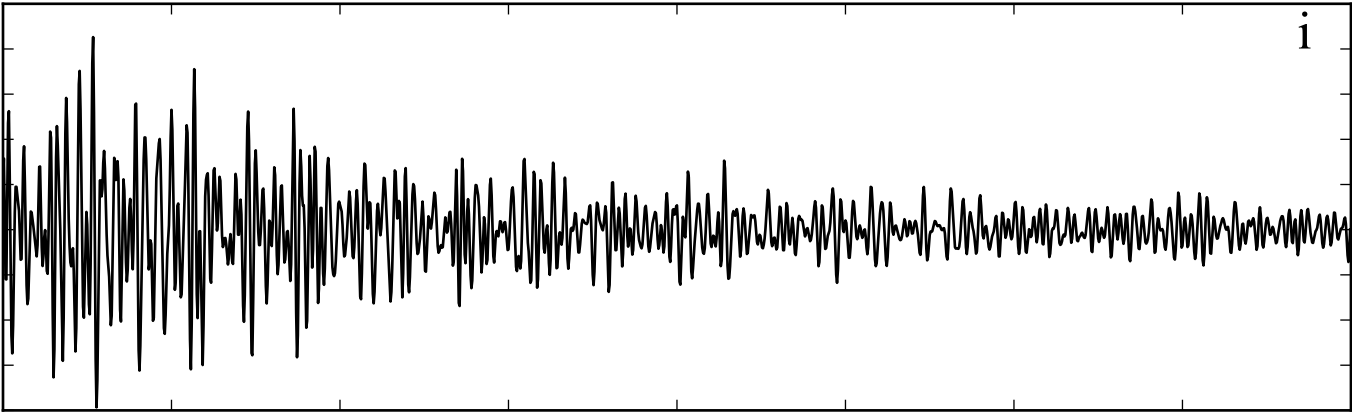
Time [s]

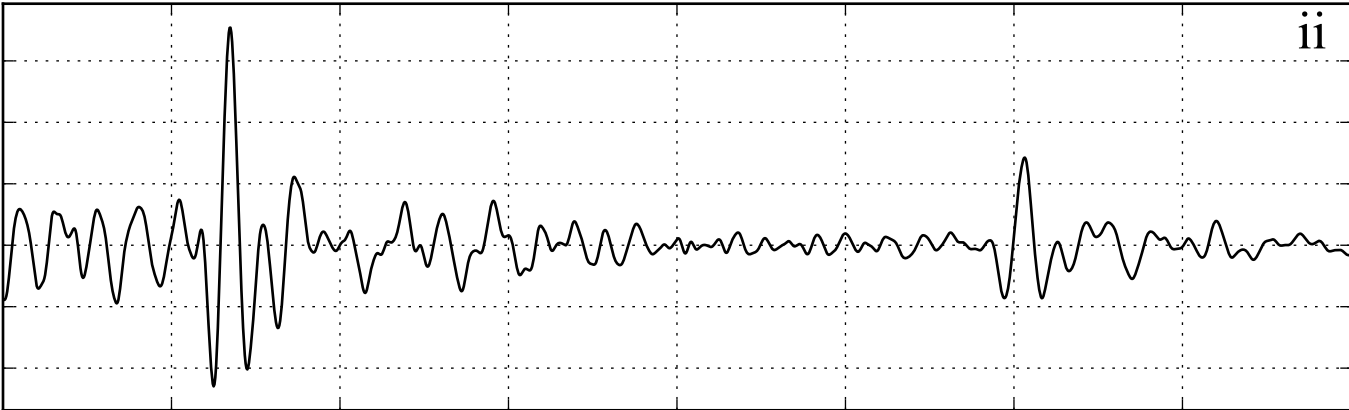
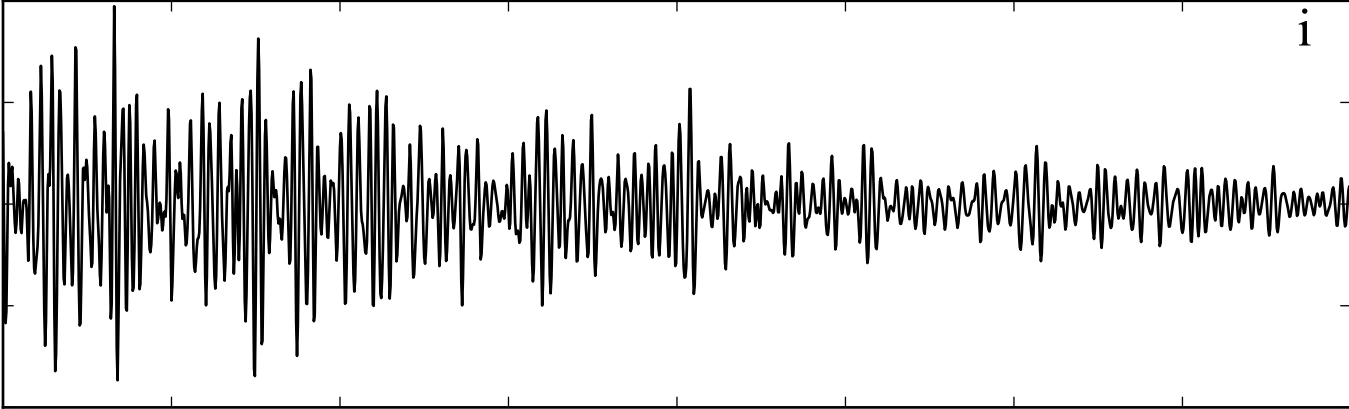


Time [s]

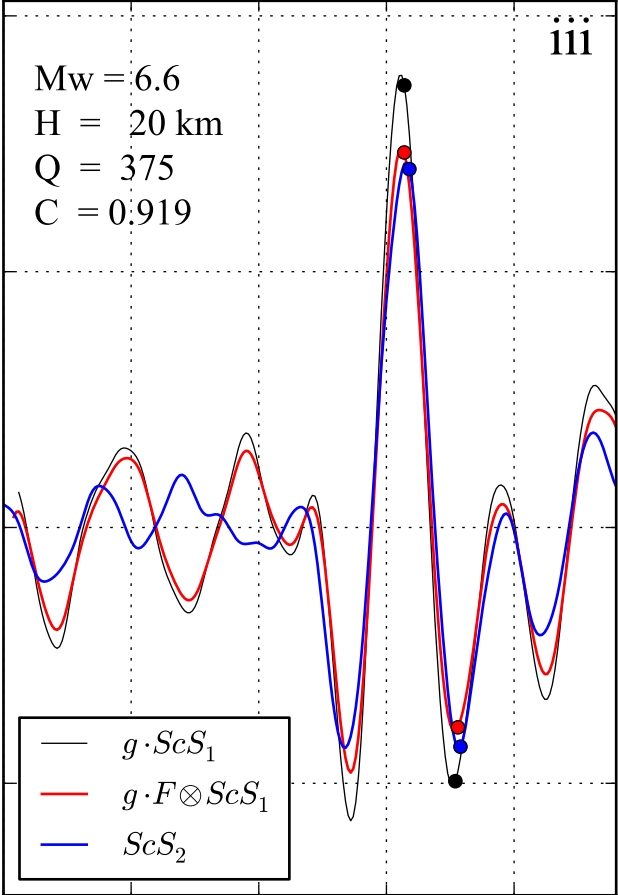
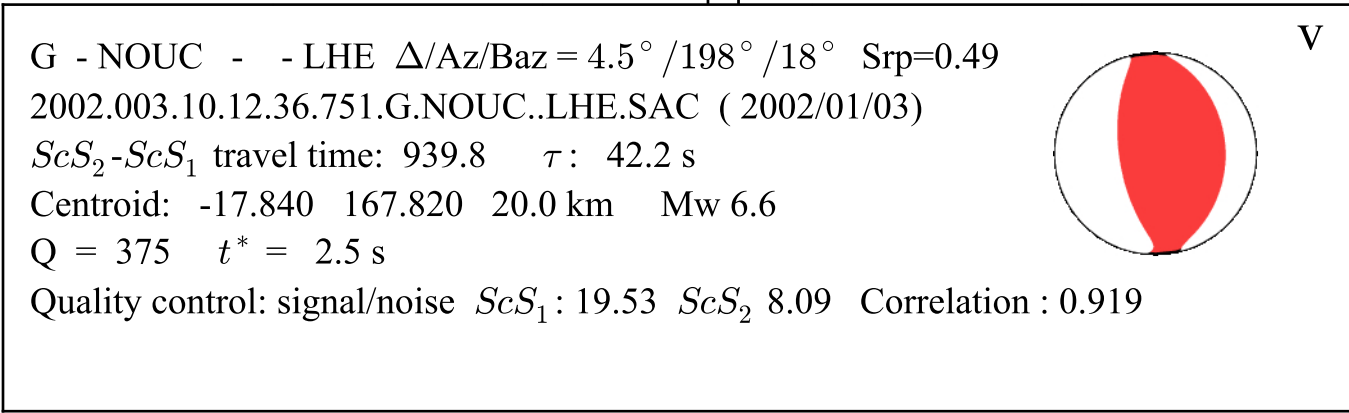


Frequency [hz]

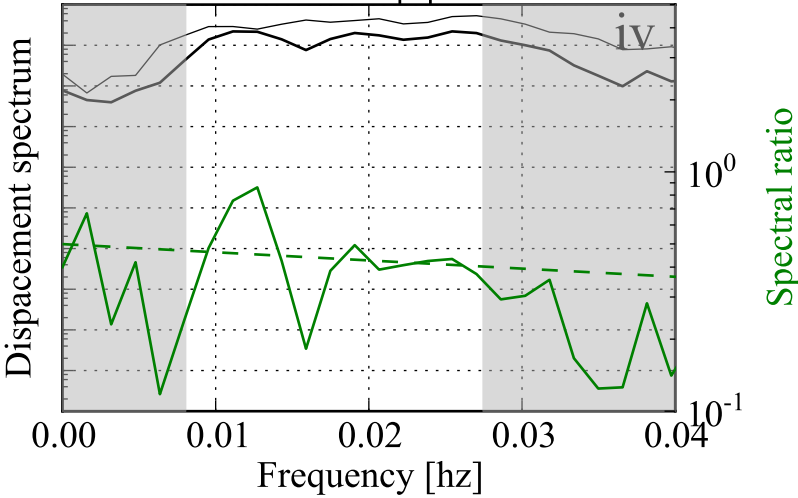


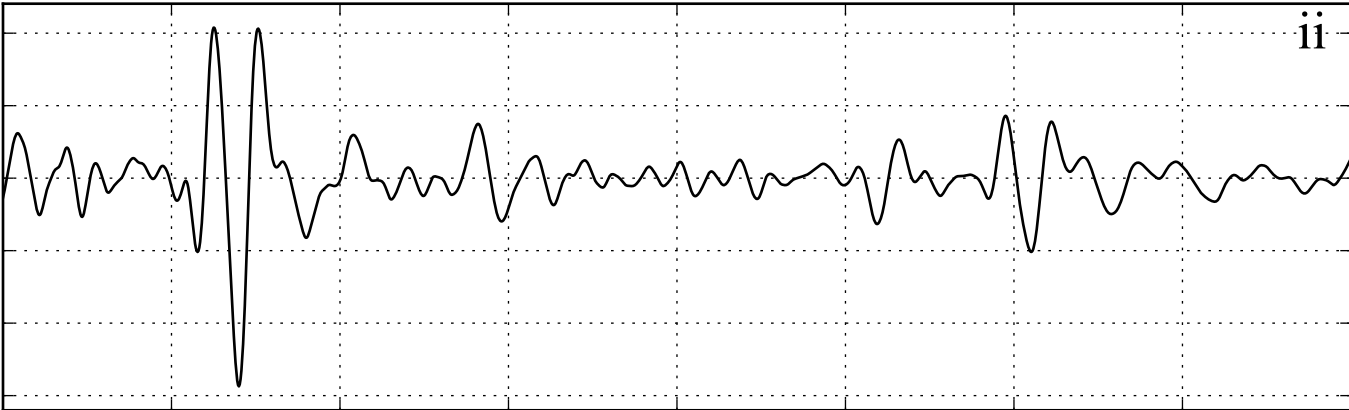
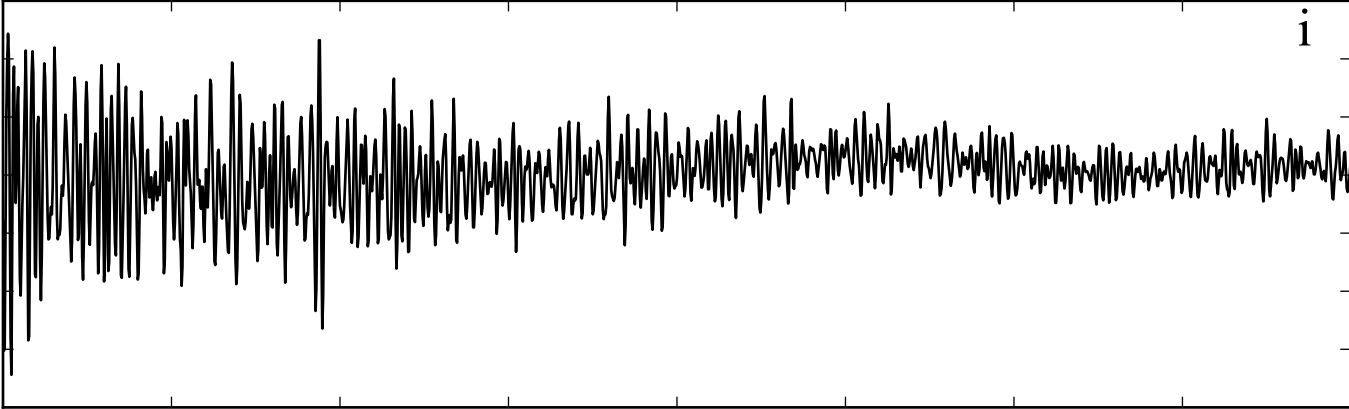


Time [s]



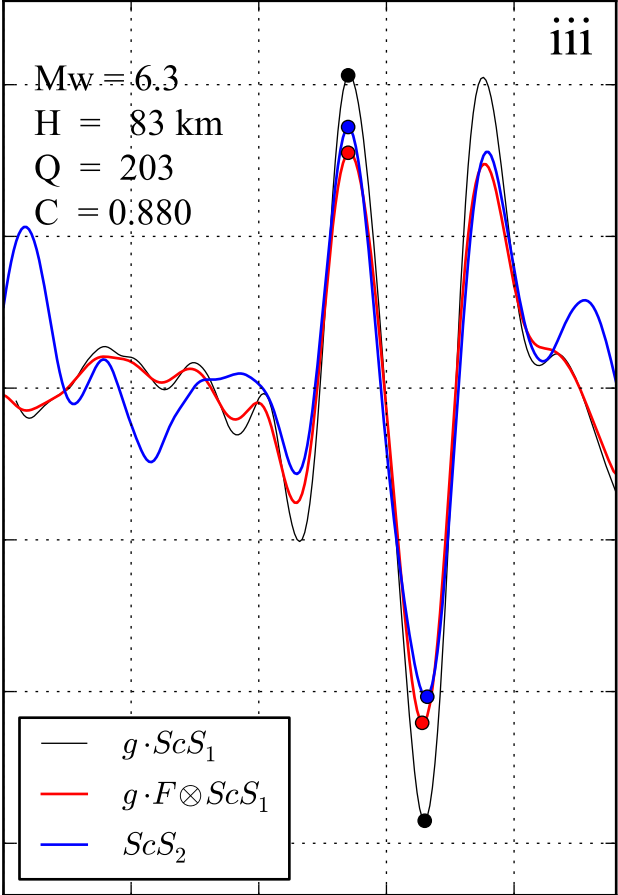
Time [s]



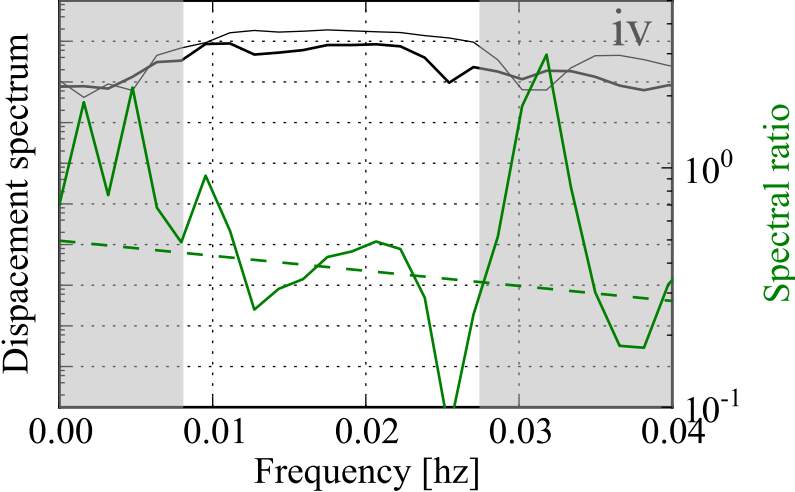


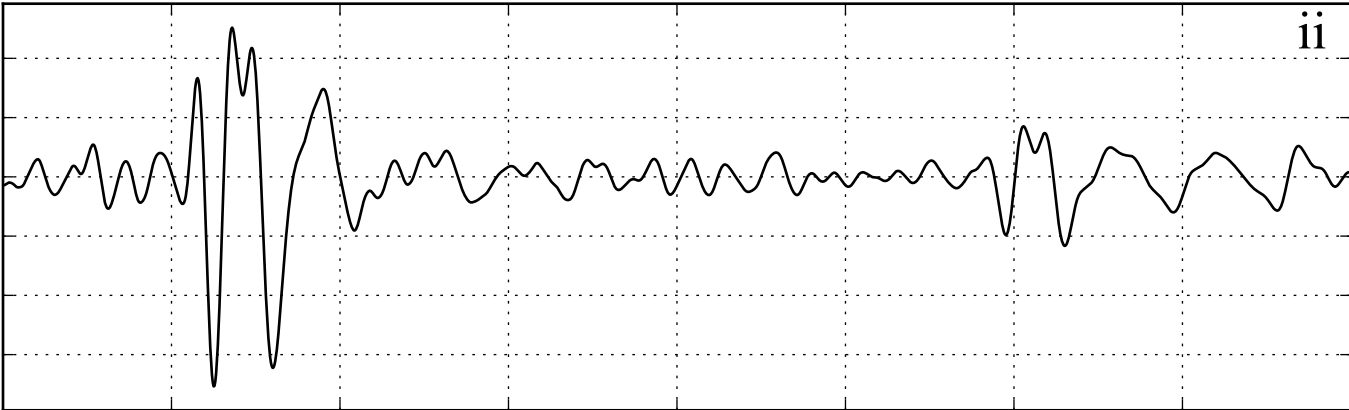
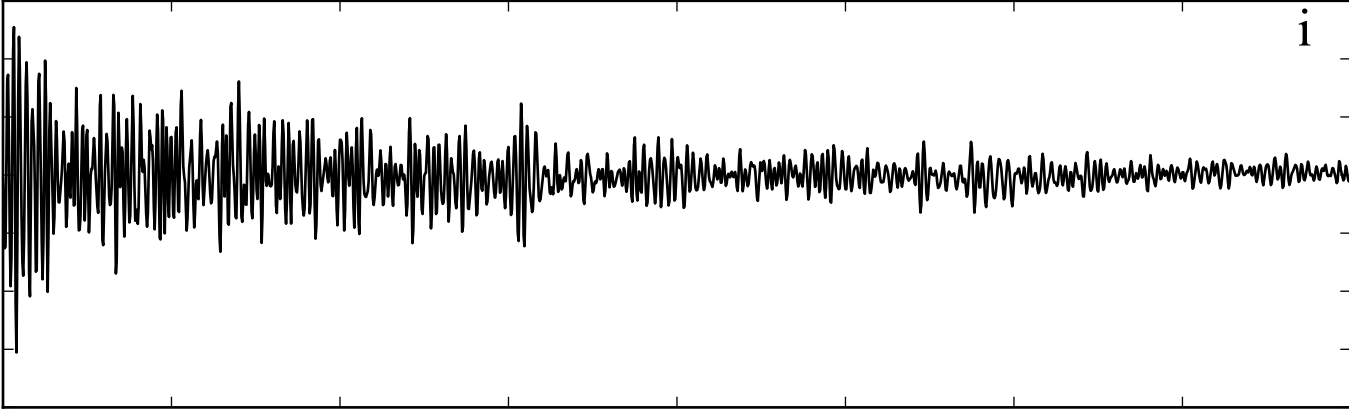
Time [s]

G - NOUC - - LHE $\Delta/Az/Baz = 3.4^\circ / 249^\circ / 70^\circ$ $Srp=0.51$
2003.117.15.58.40.065.G.NOUC..LHE.SAC (2003/04/27)
 ScS_2-ScS_1 travel time: 939.2 τ : 50.5 s
Centroid: -20.940 169.710 83.8 km Mw 6.3
 $Q = 203$ $t^* = 4.6$ s
Quality control: signal/noise ScS_1 : 8.44 ScS_2 3.20 Correlation : 0.880

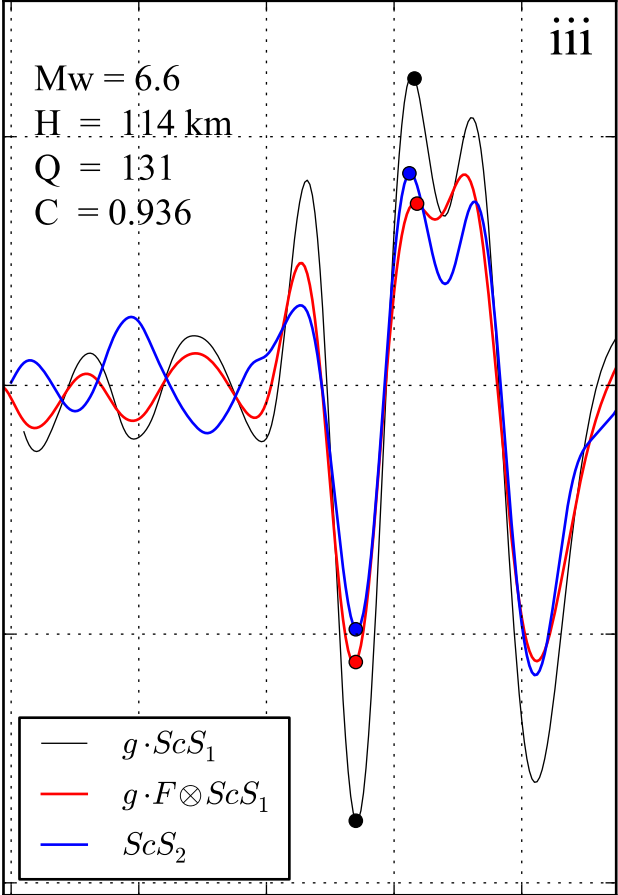
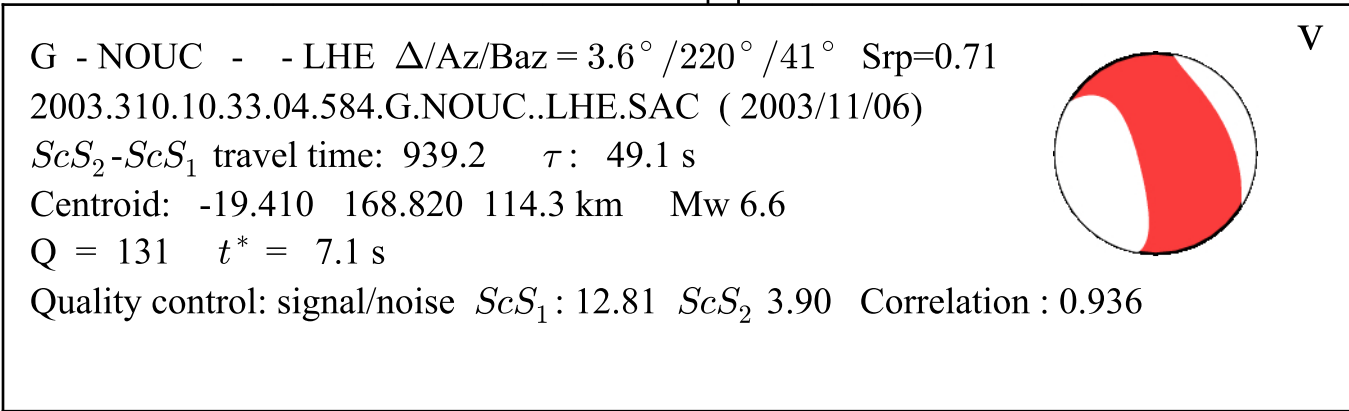


Time [s]

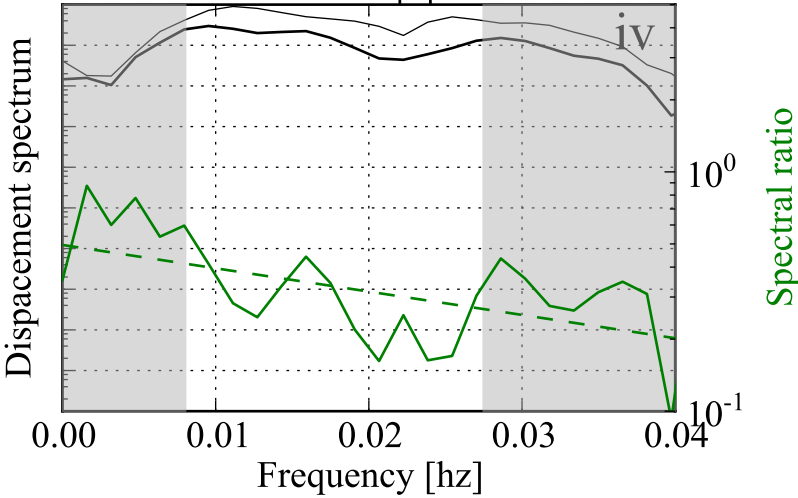


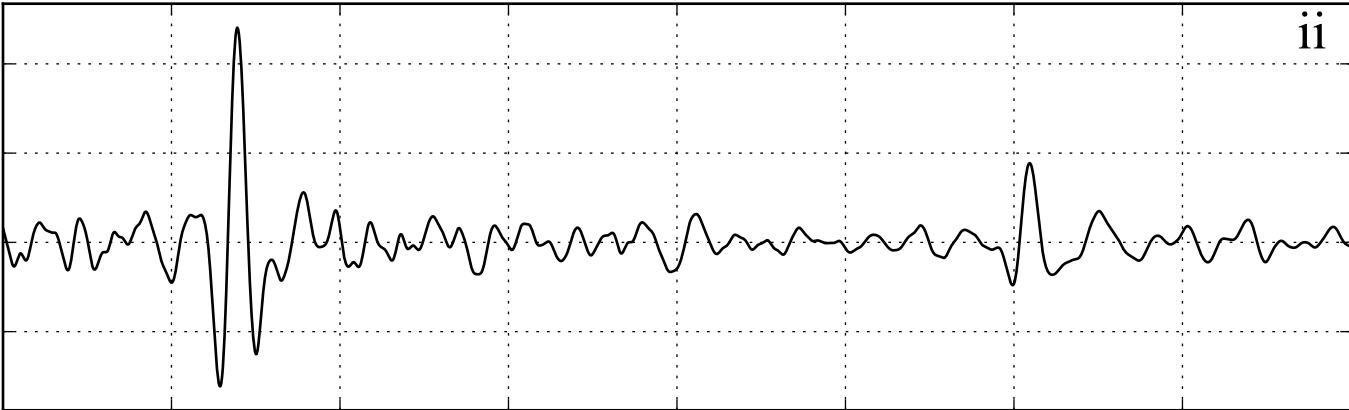
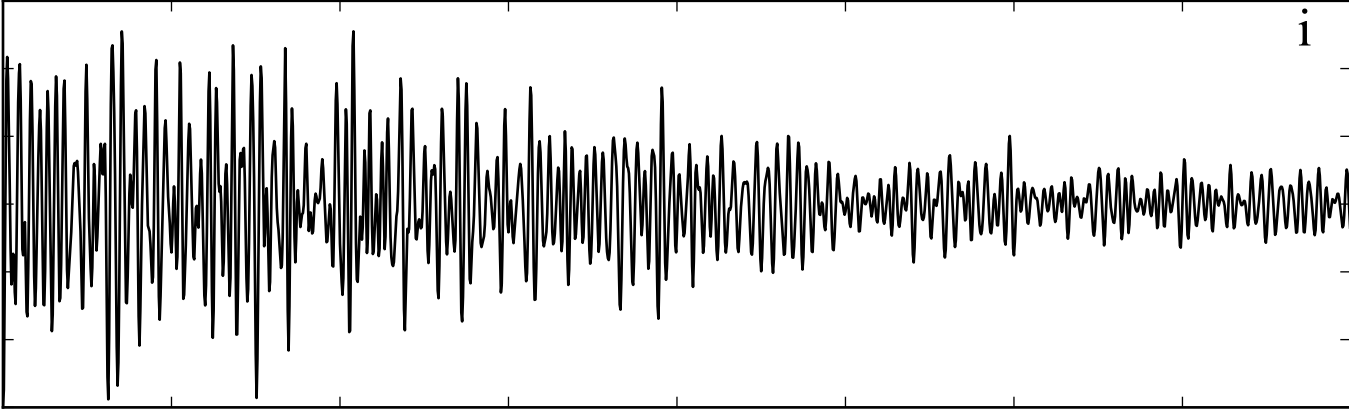


Time [s]

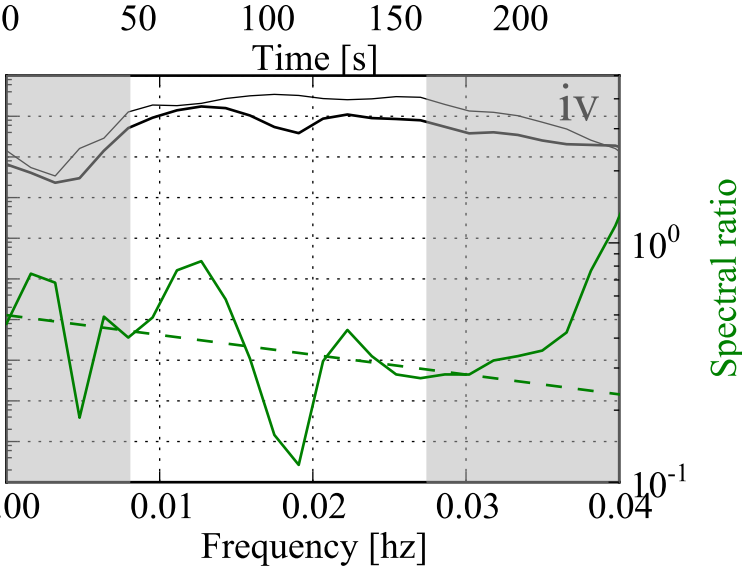
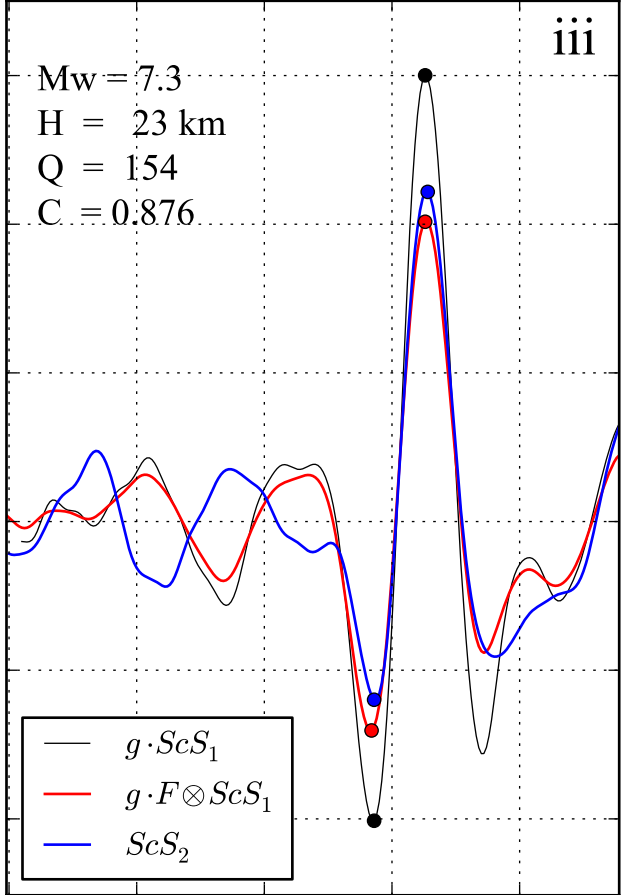
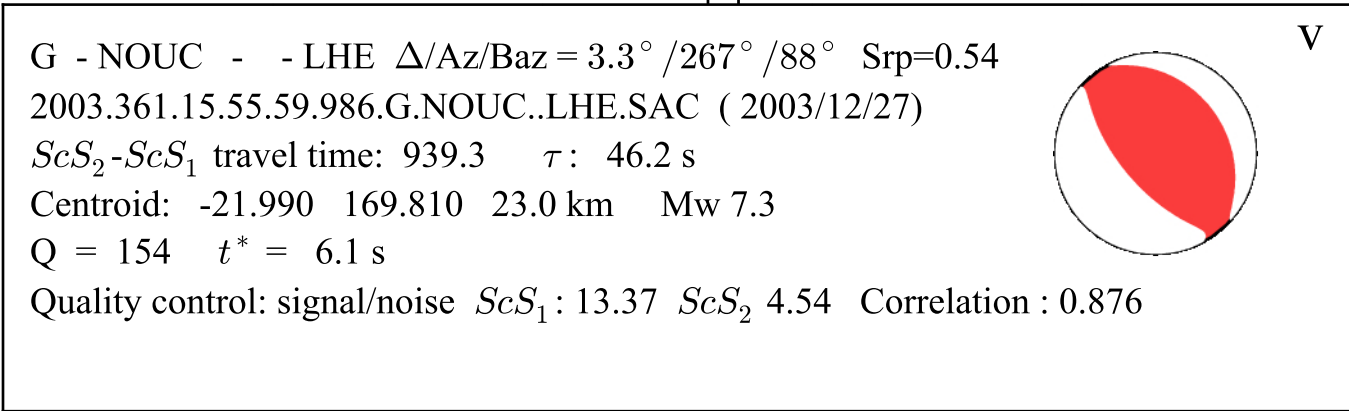


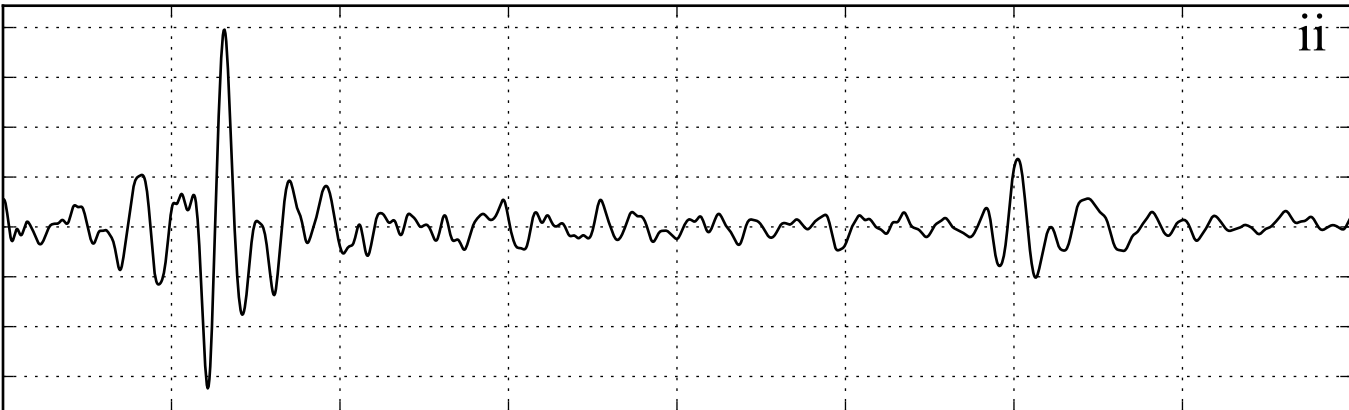
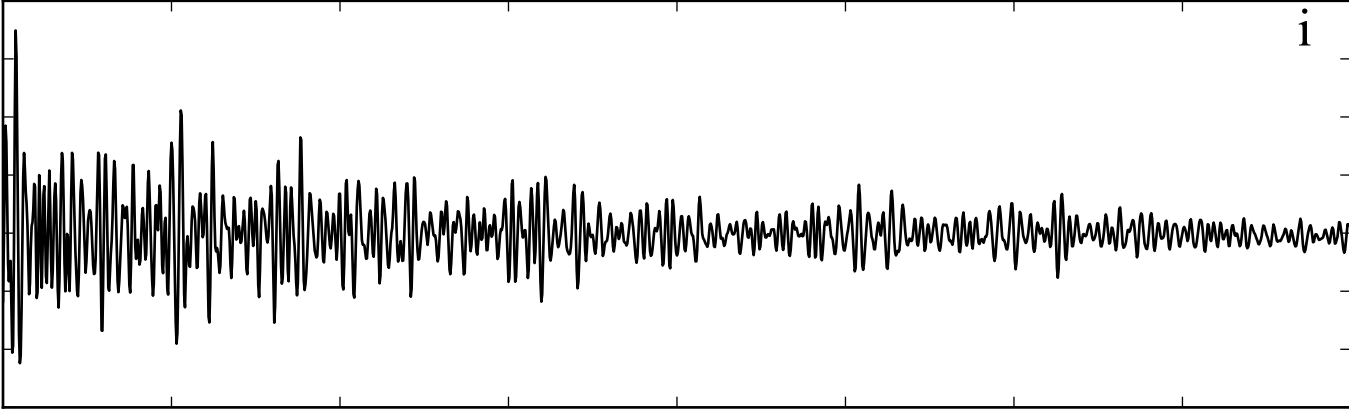
Time [s]



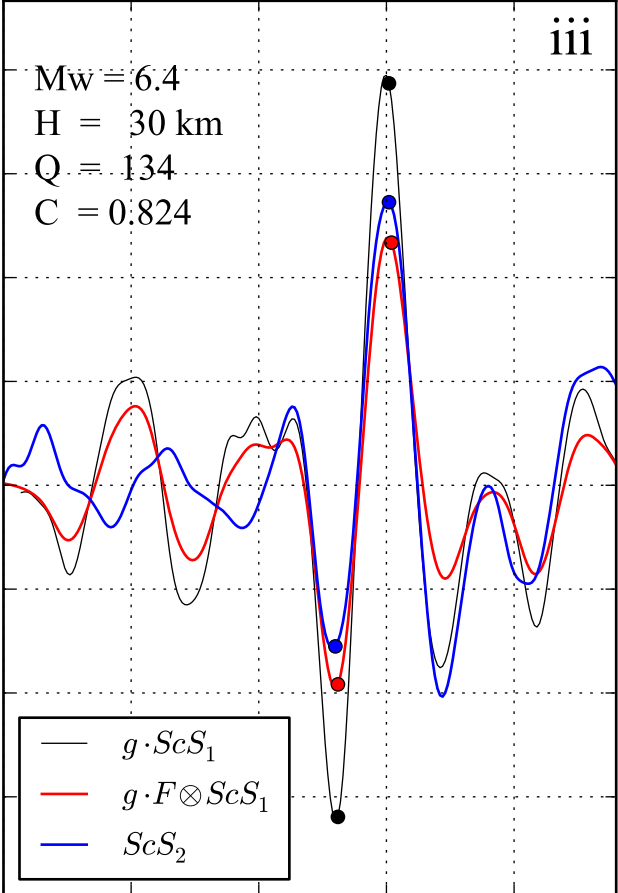
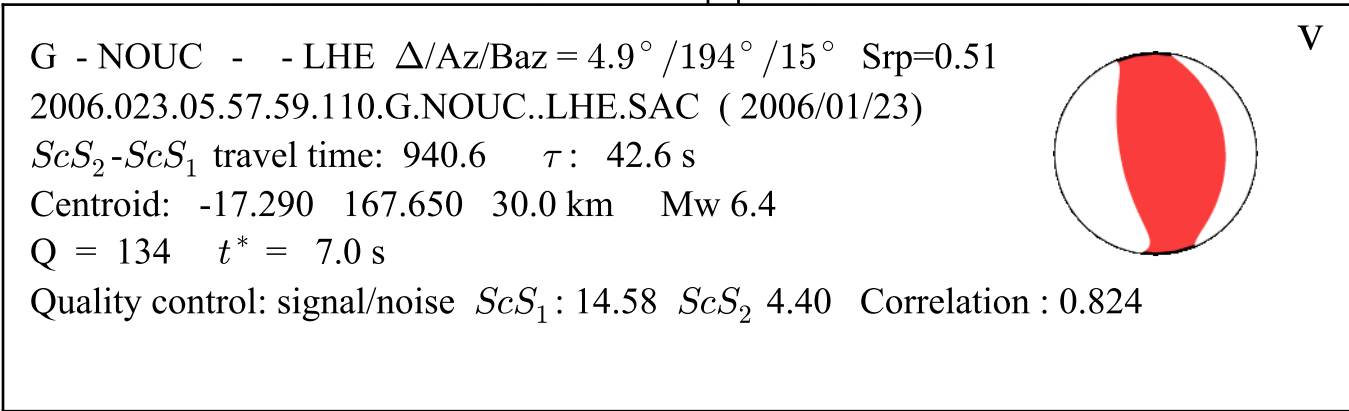


Time [s]

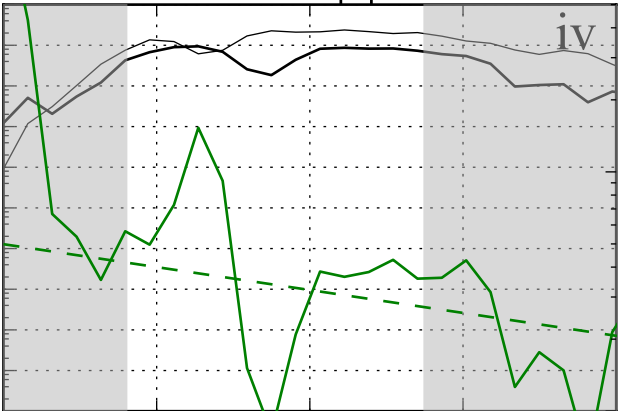




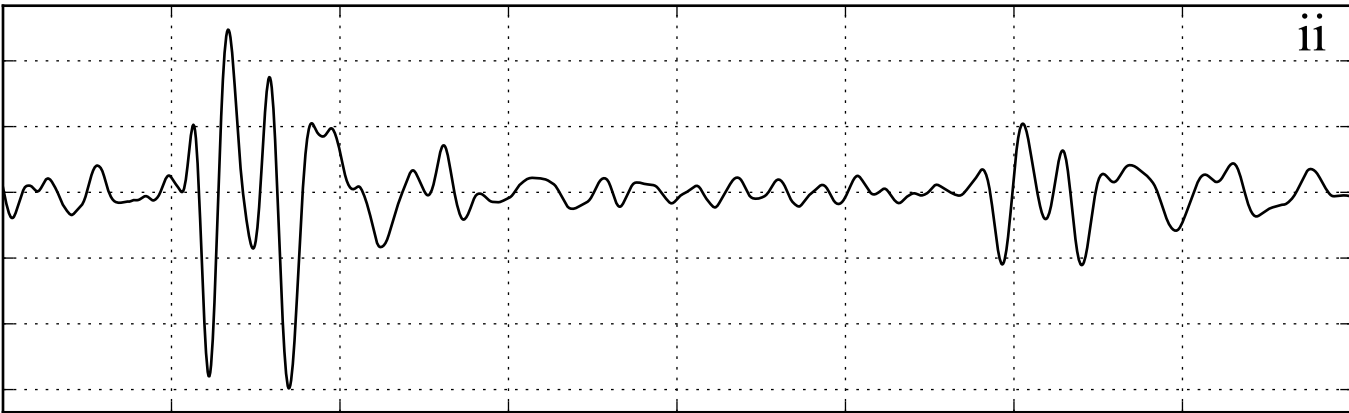
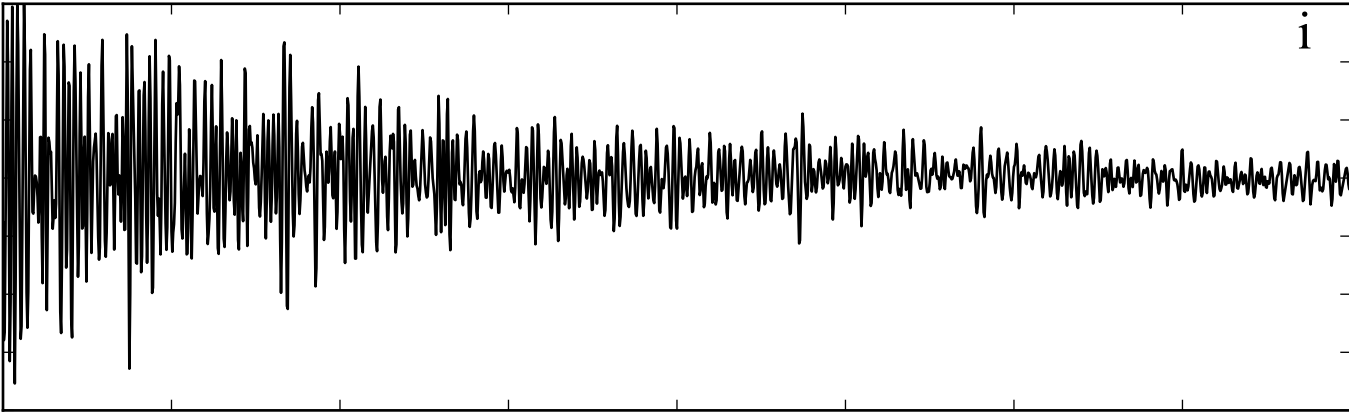
Time [s]



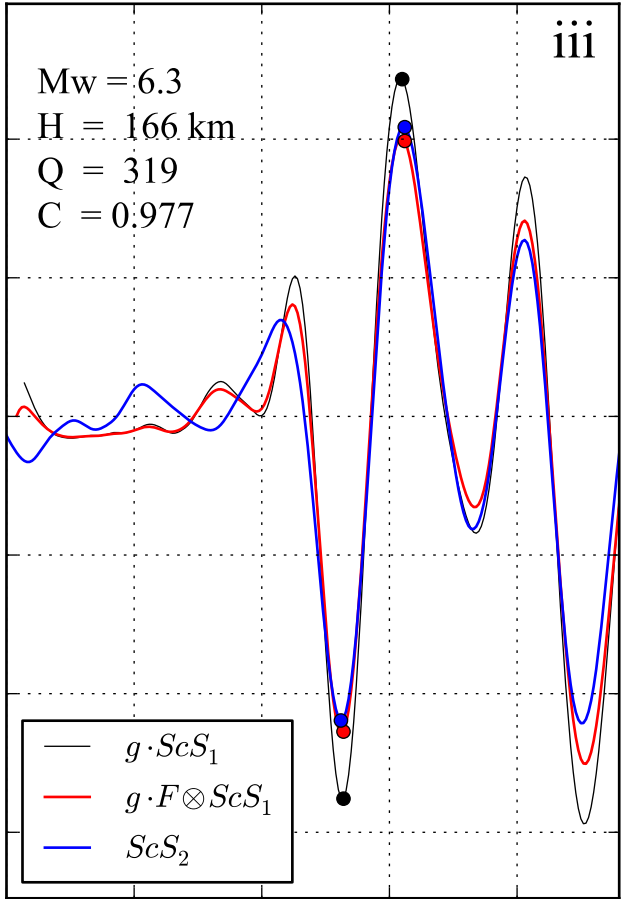
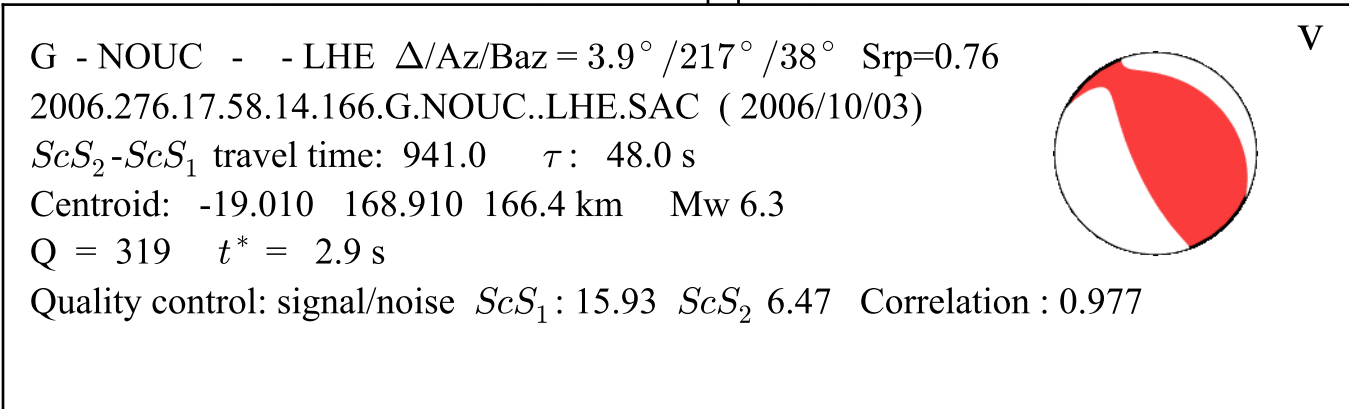
Time [s]



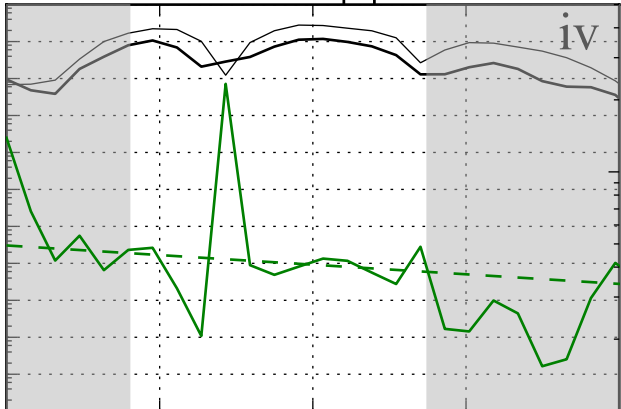
Frequency [hz]



Time [s]

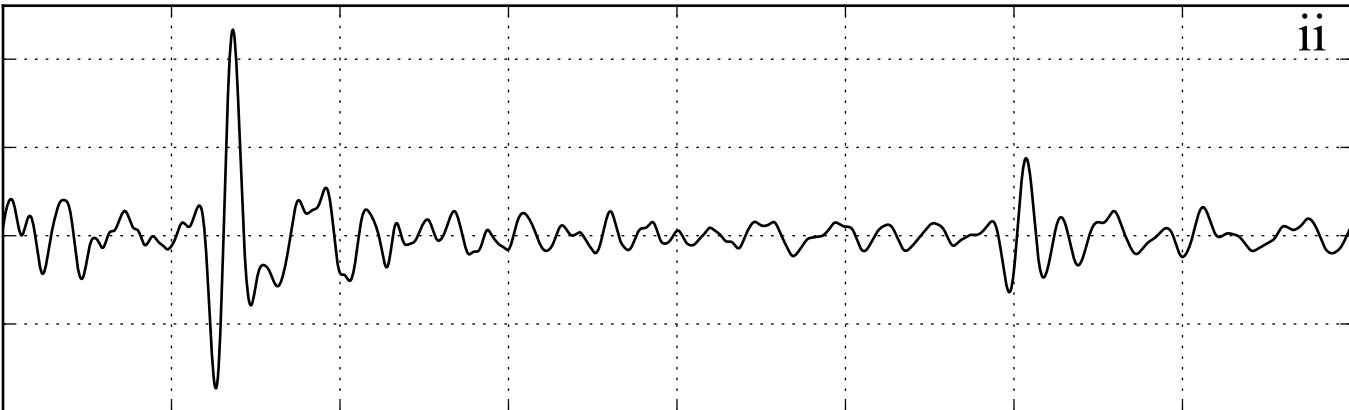
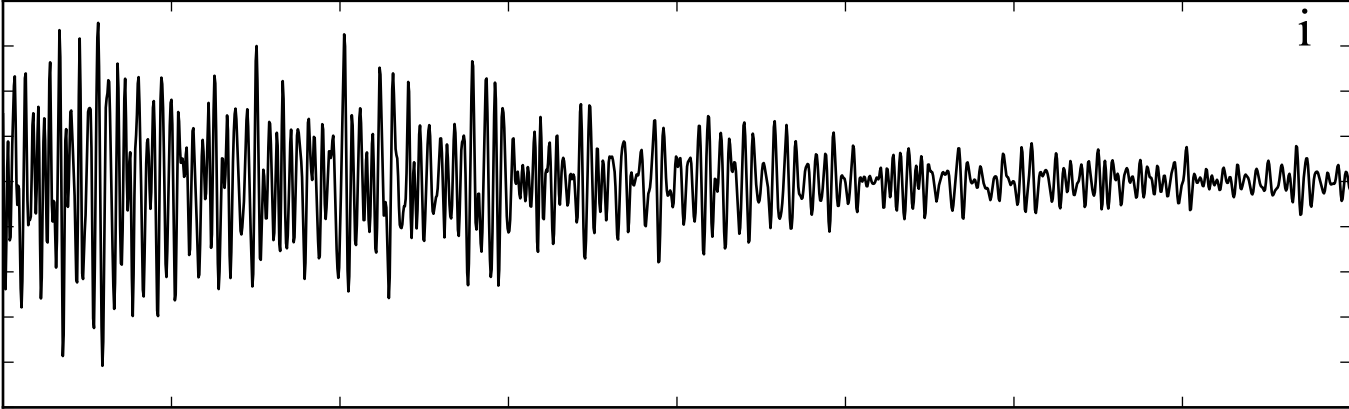


Time [s]

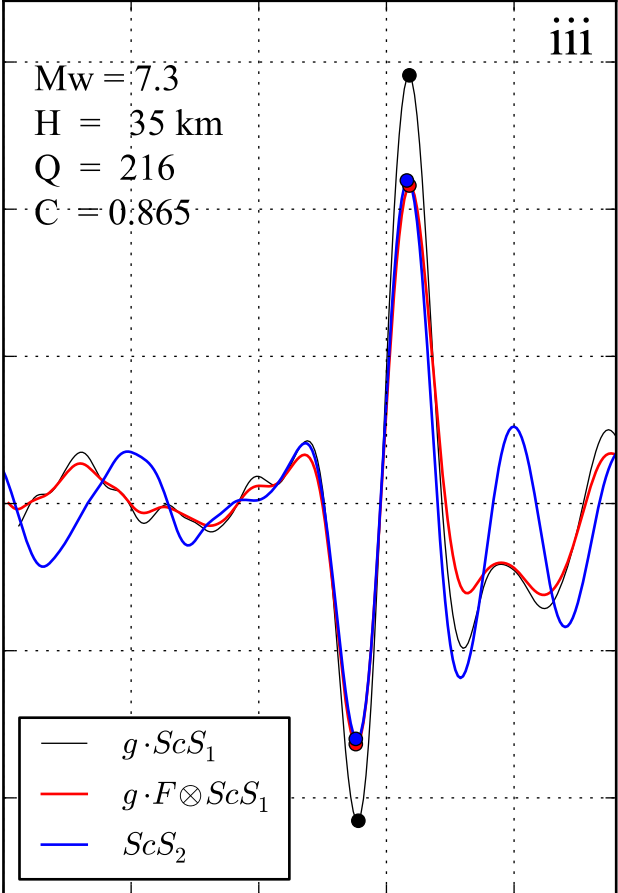
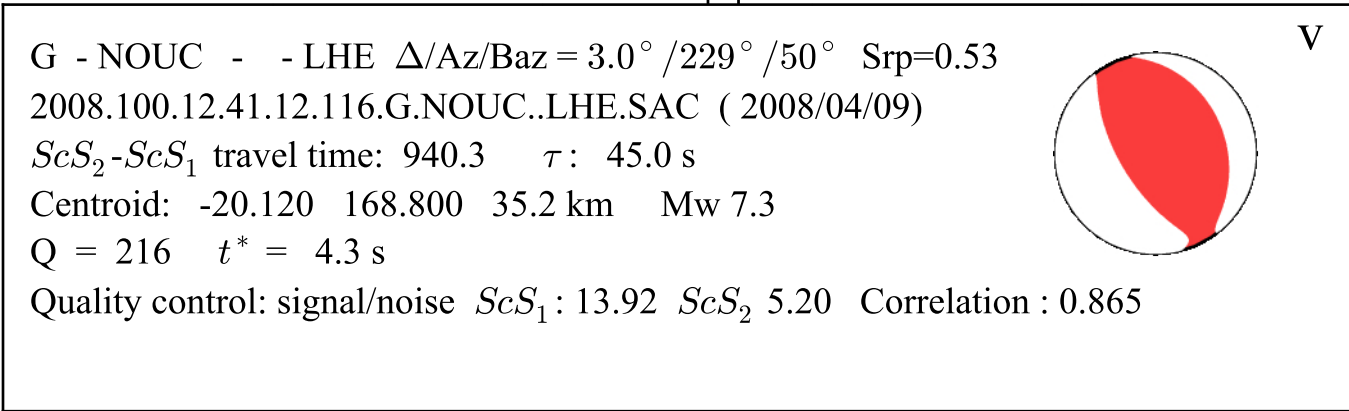


Frequency [hz]

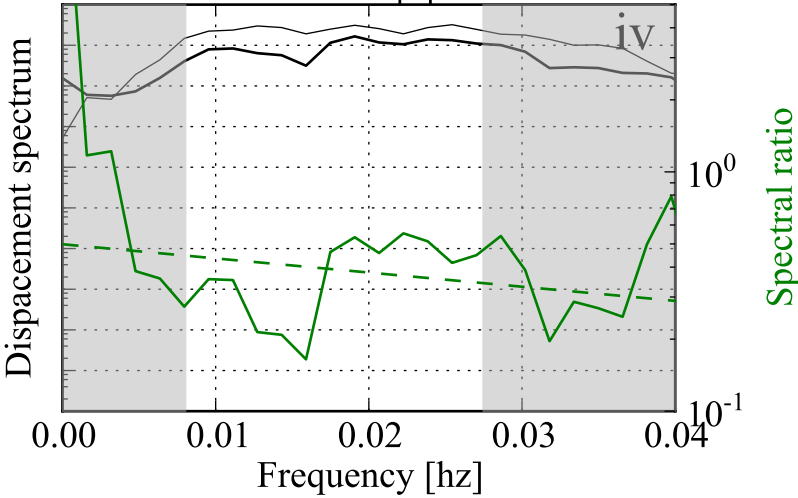
Spectral ratio

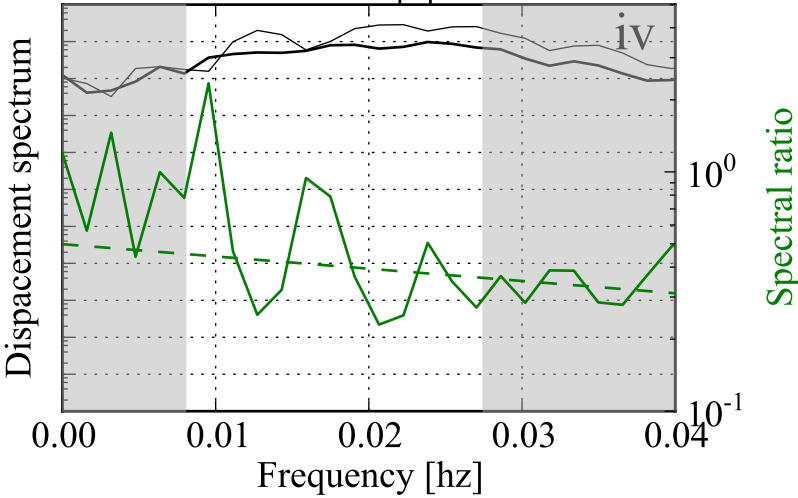
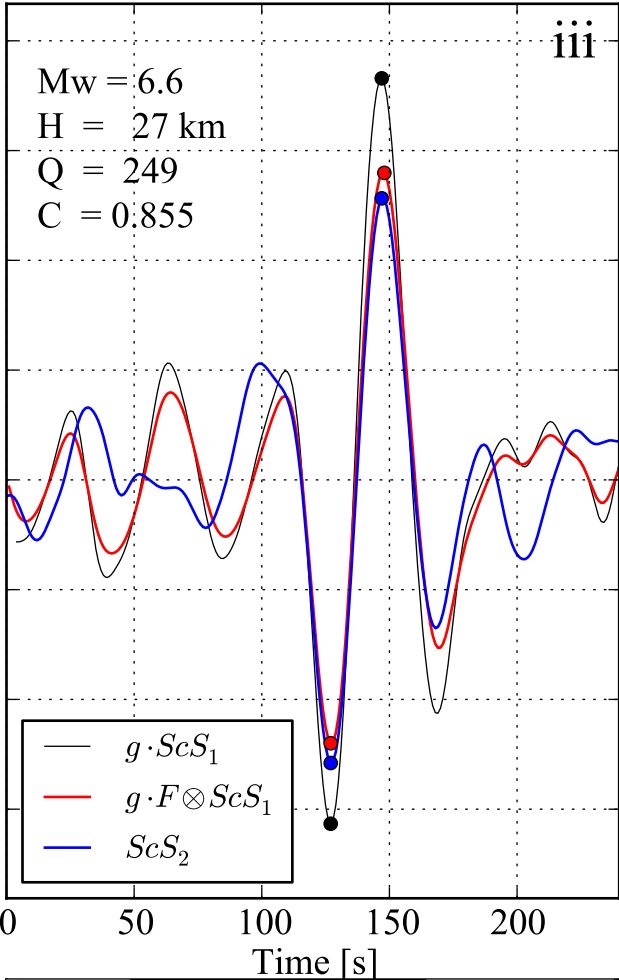
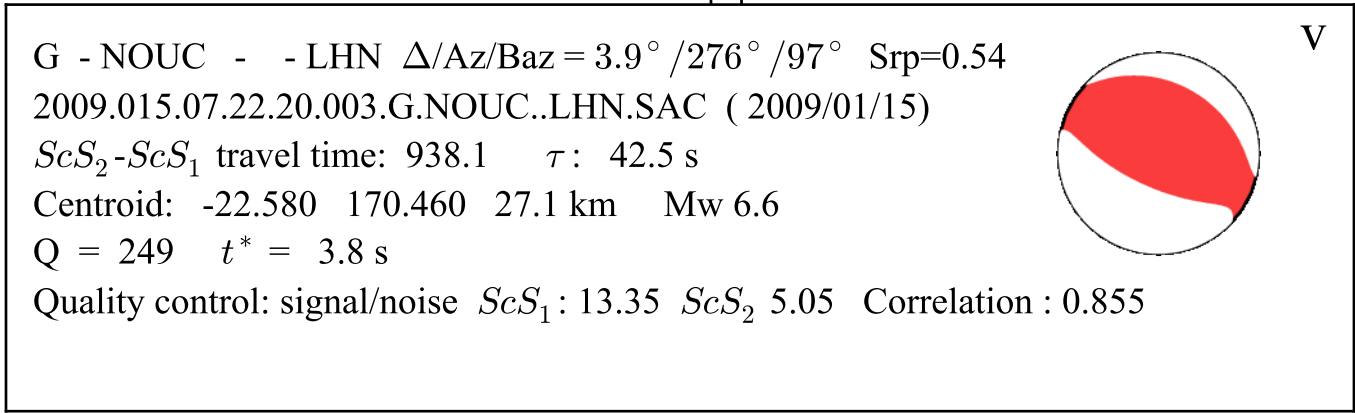
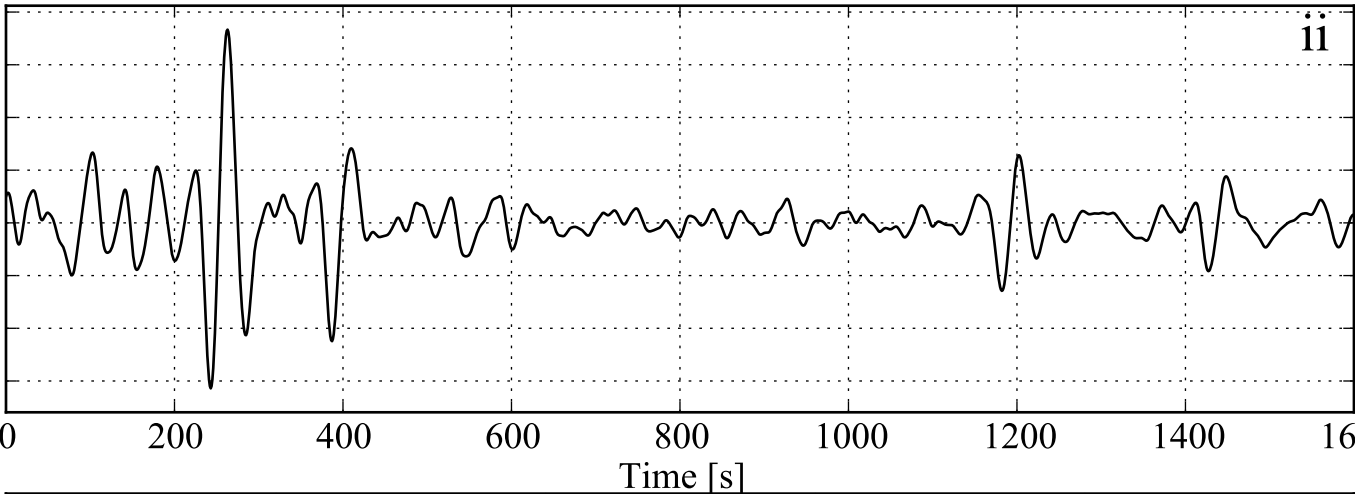
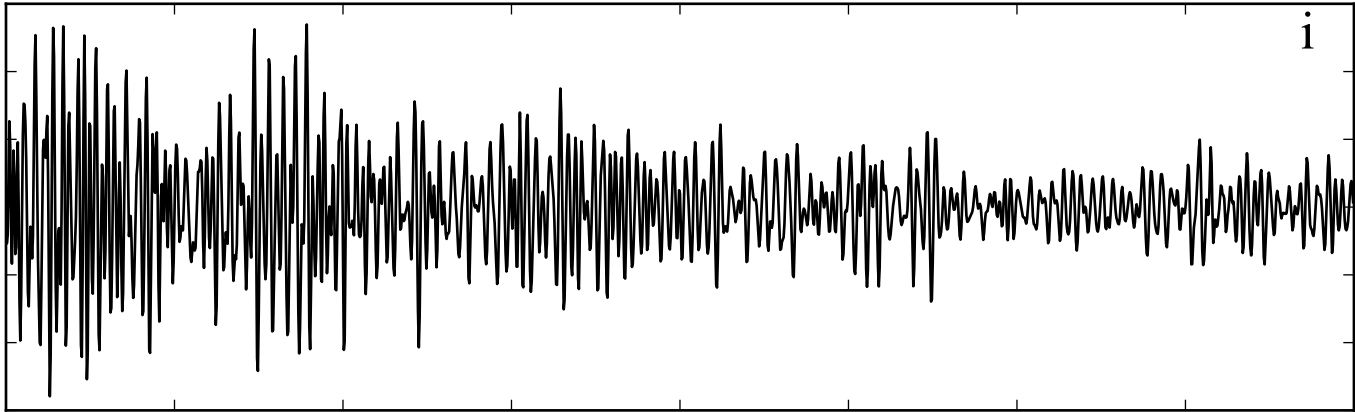


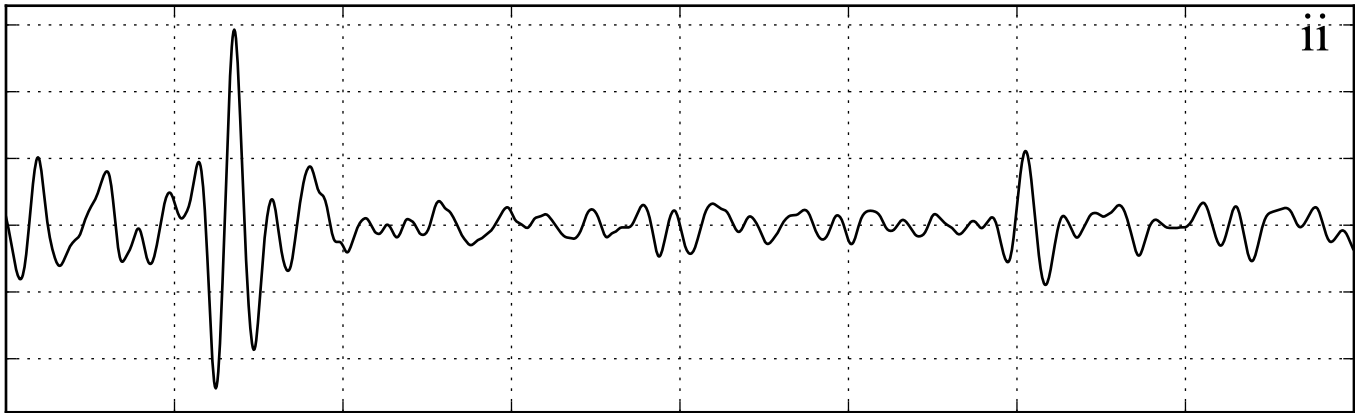
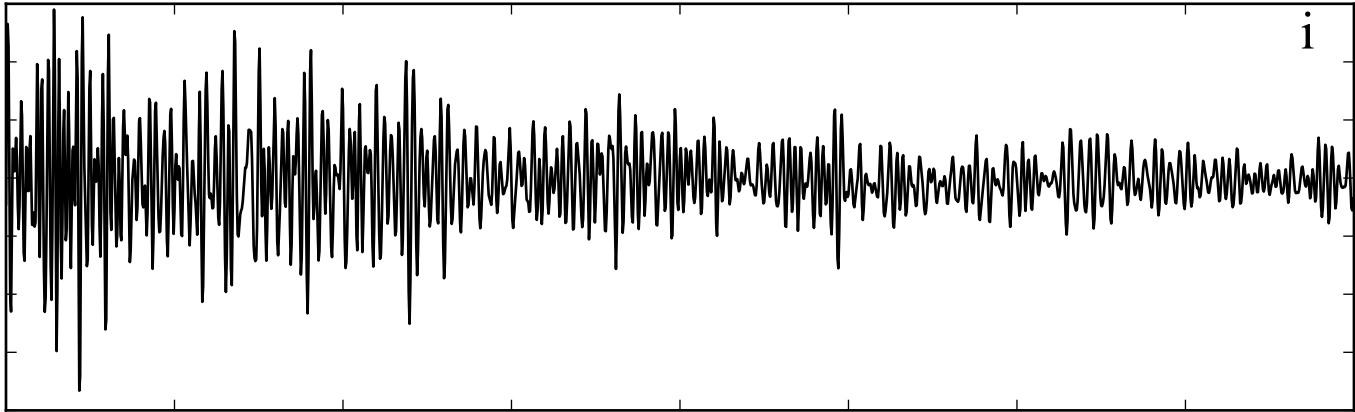
Time [s]



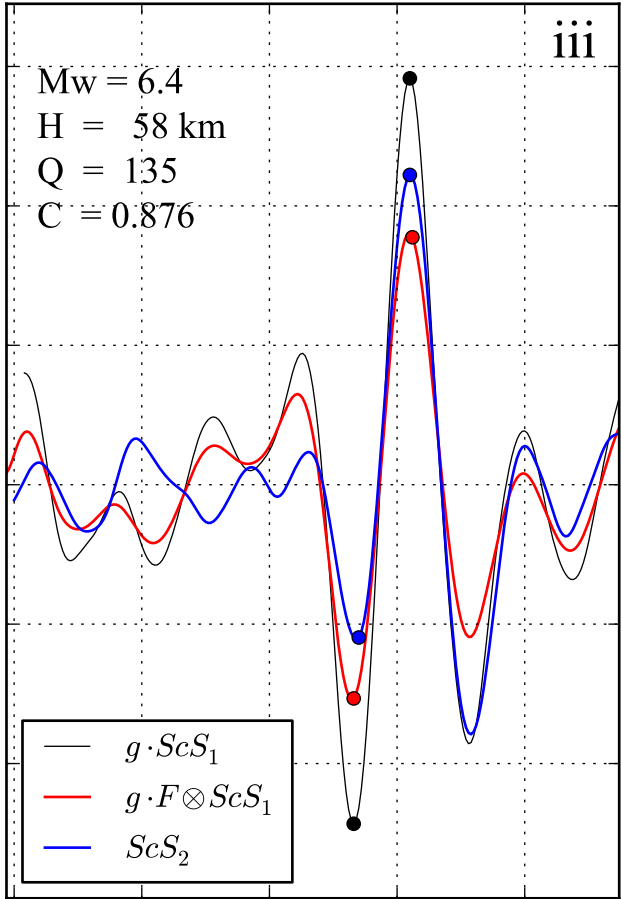
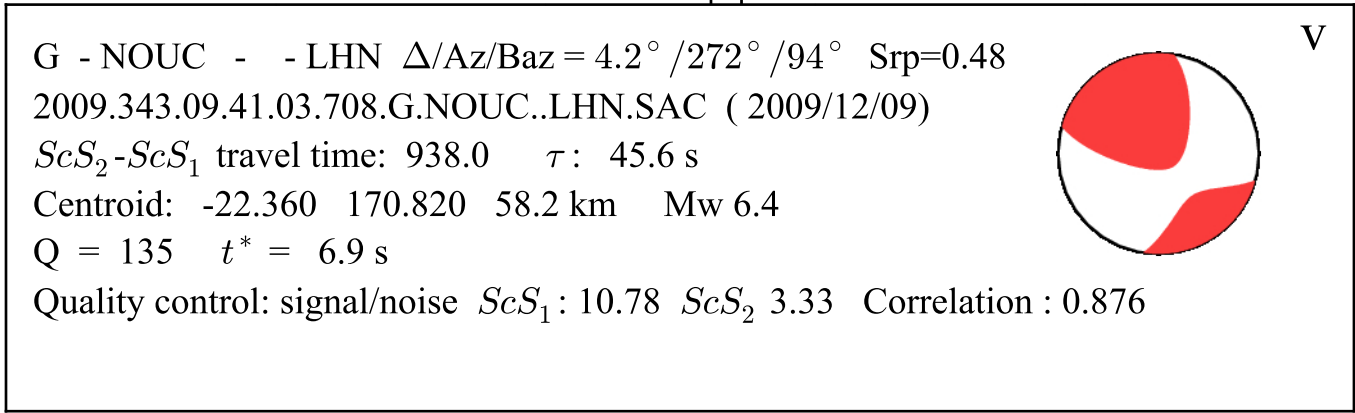
Time [s]



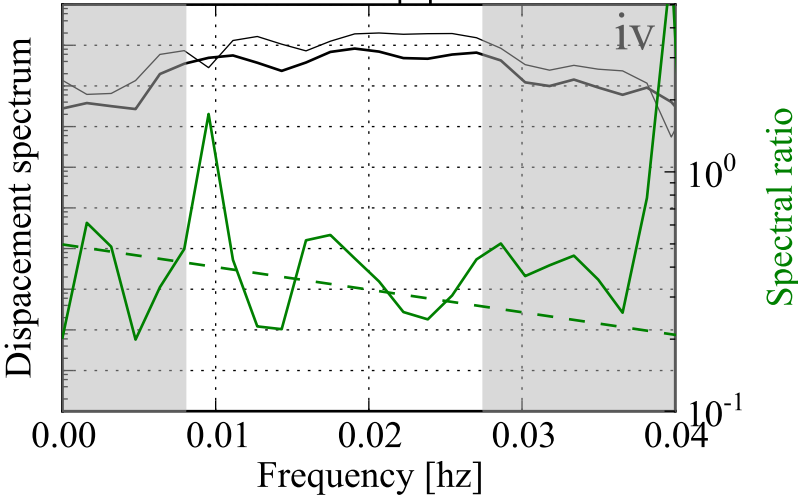


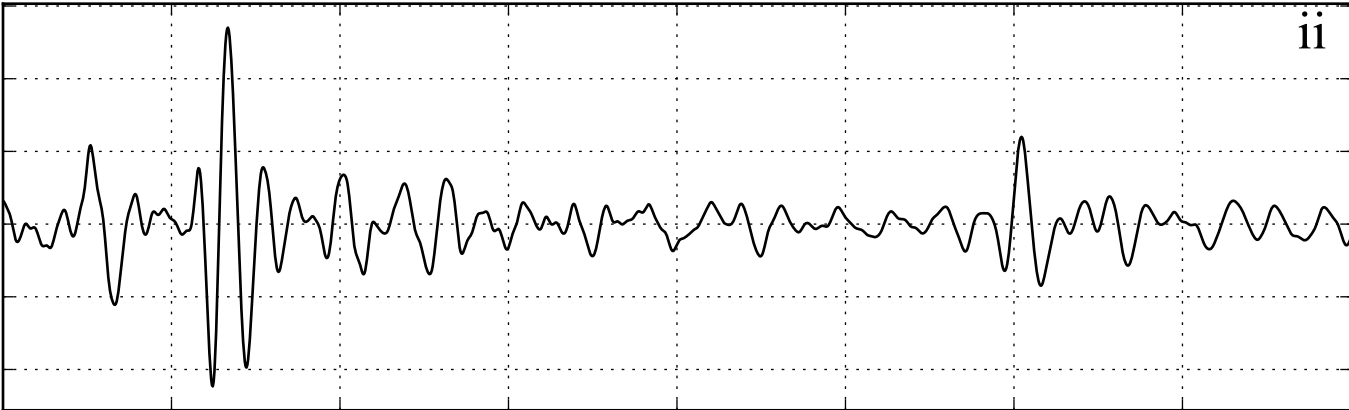
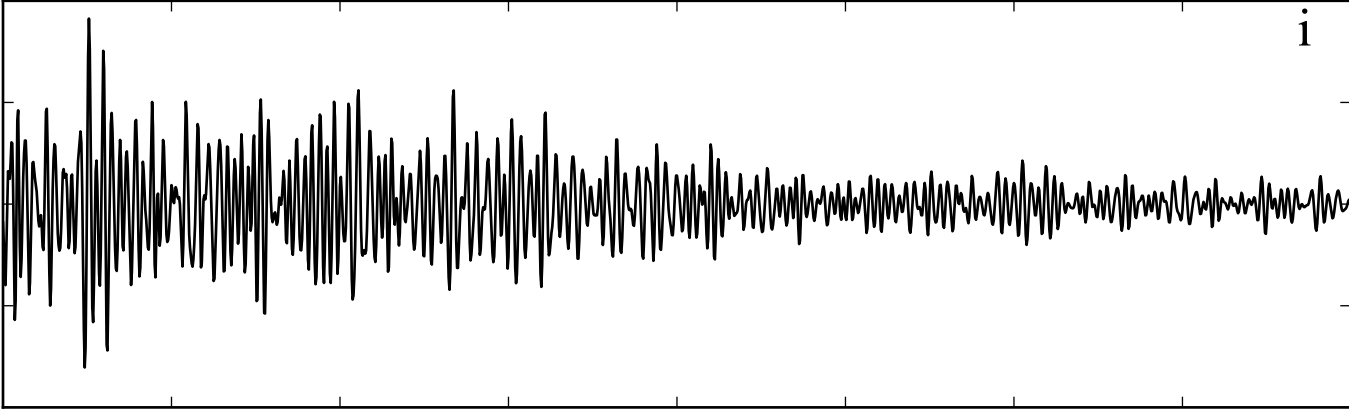


Time [s]

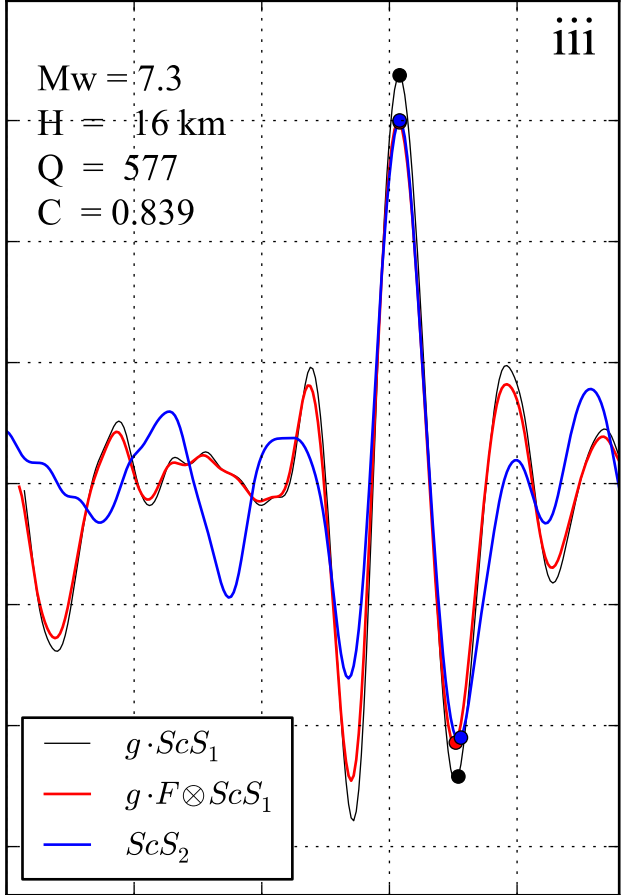
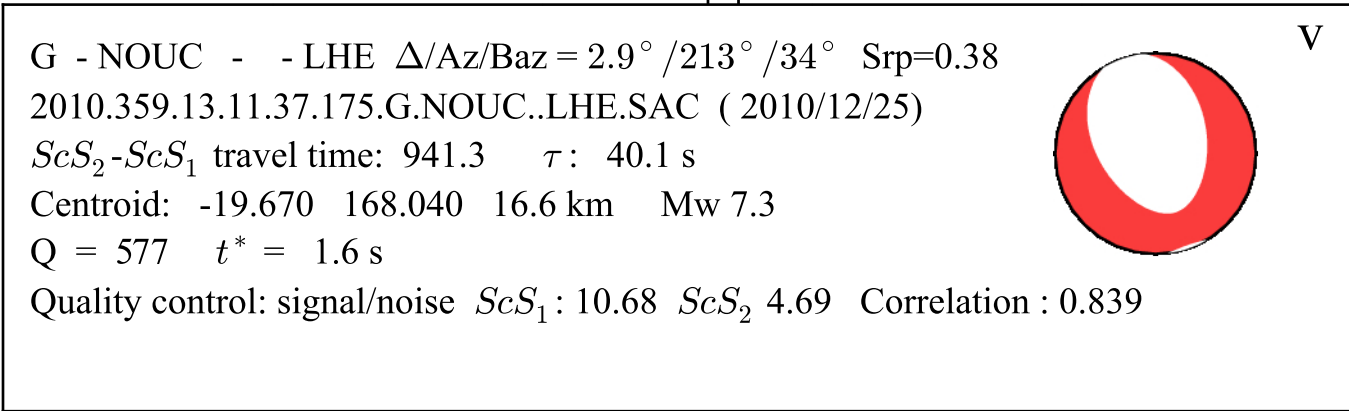


Time [s]

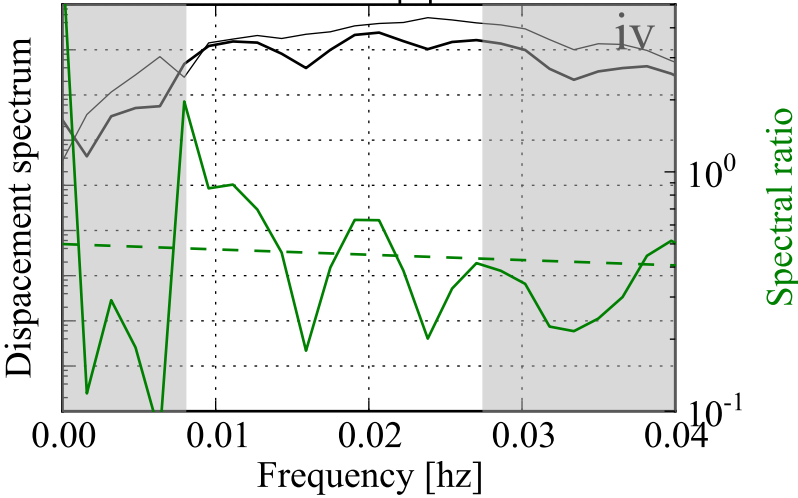


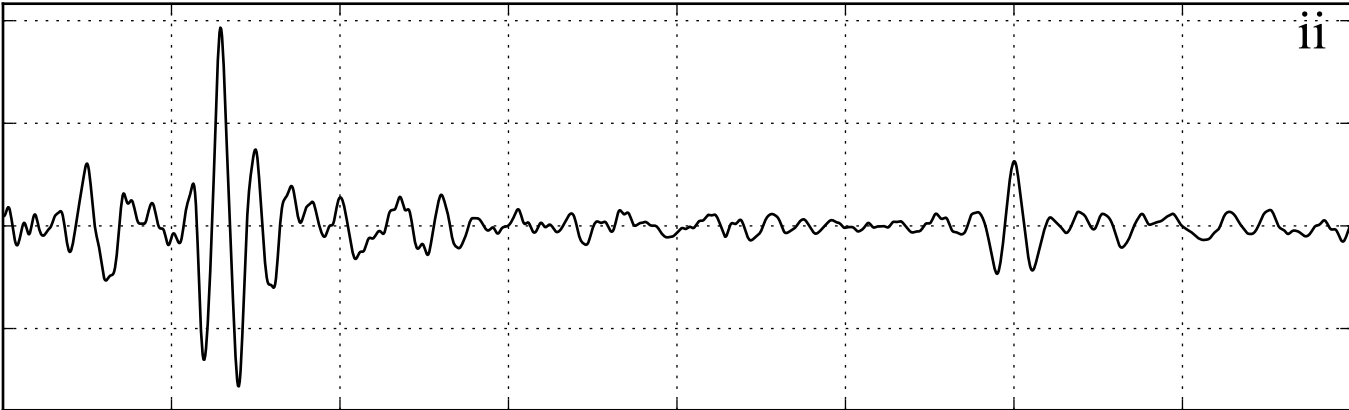
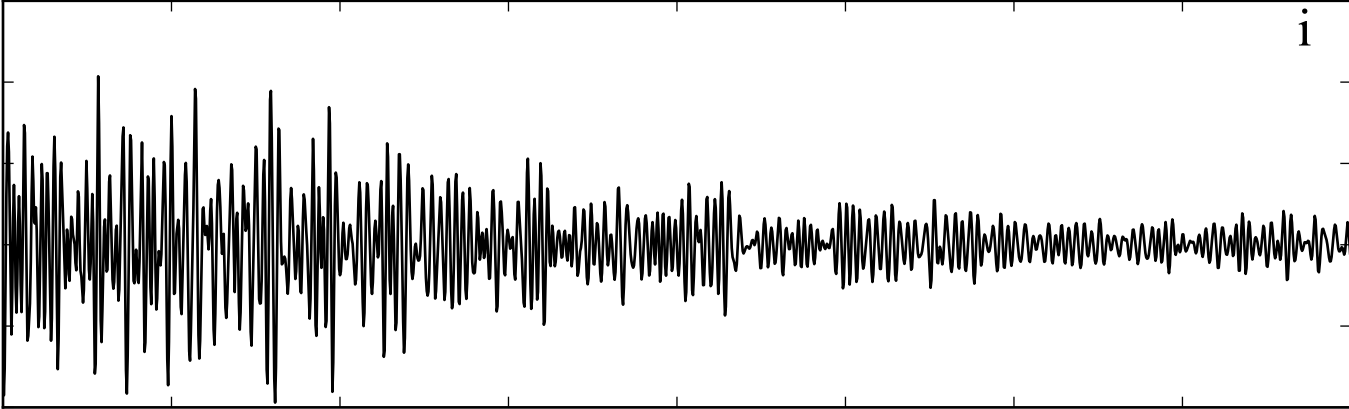


Time [s]

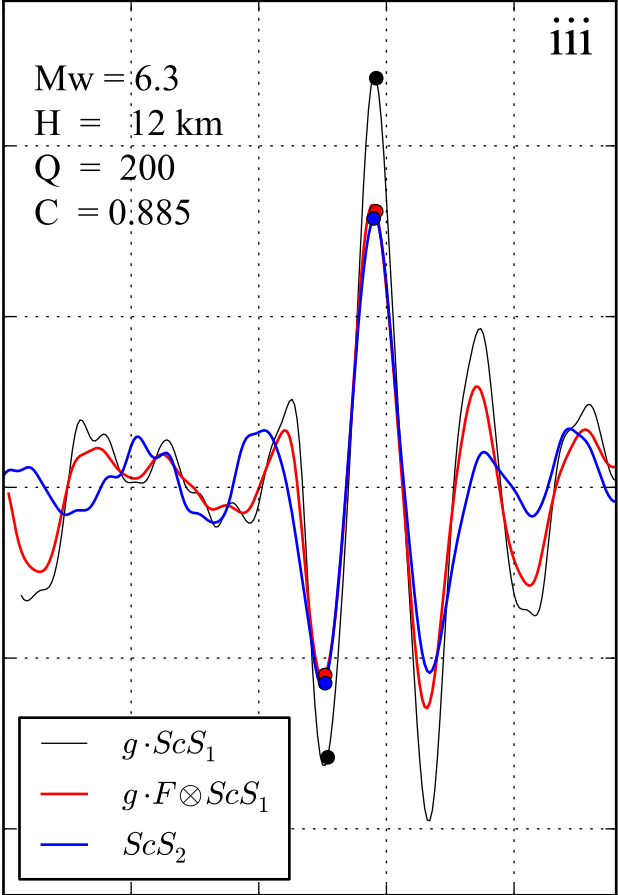
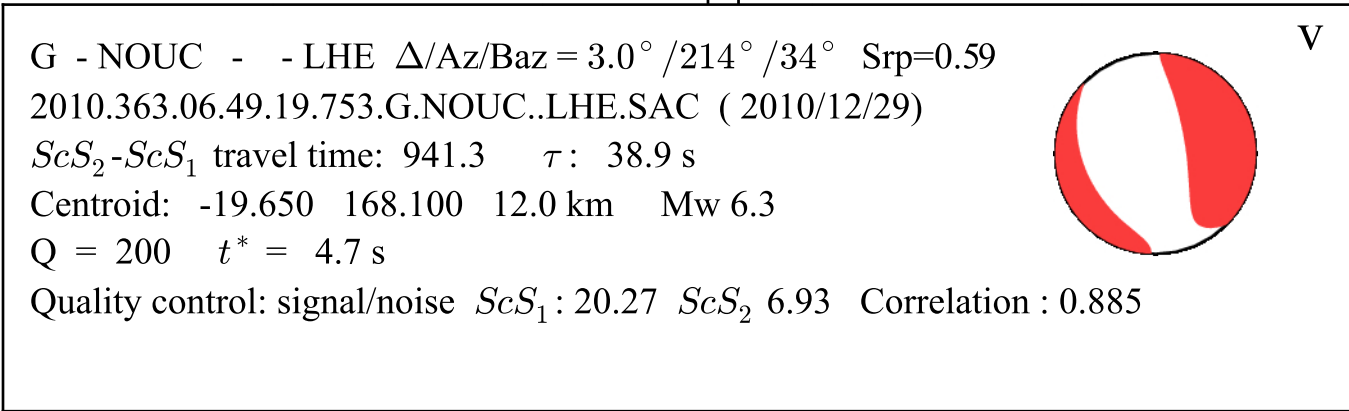


Time [s]

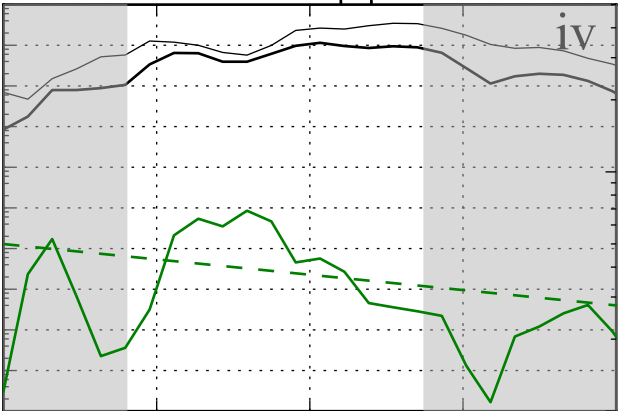




Time [s]



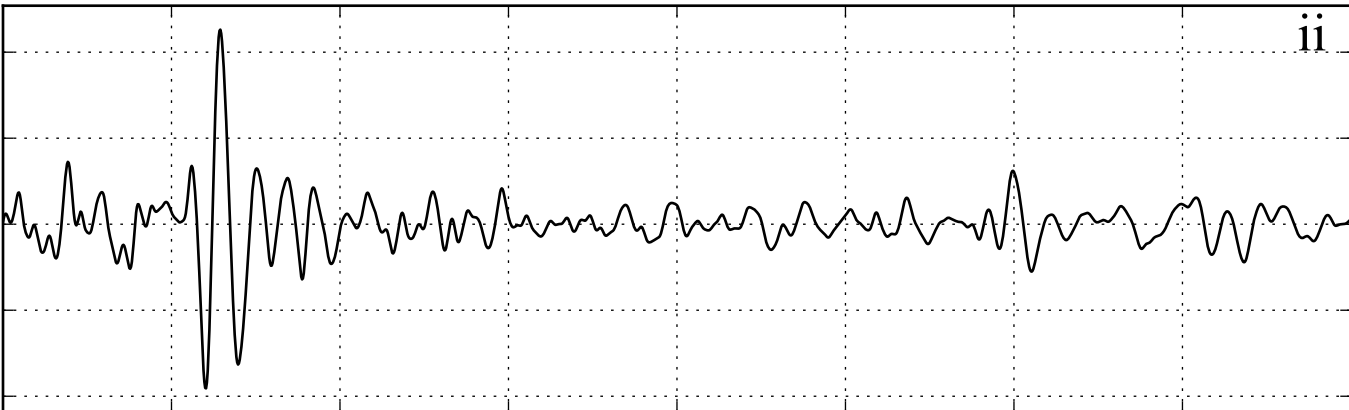
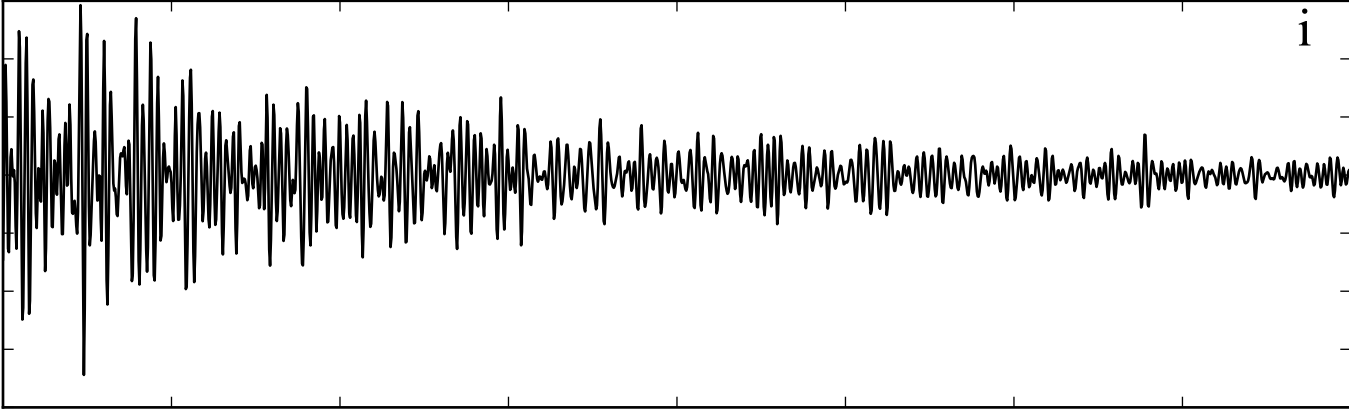
Time [s]



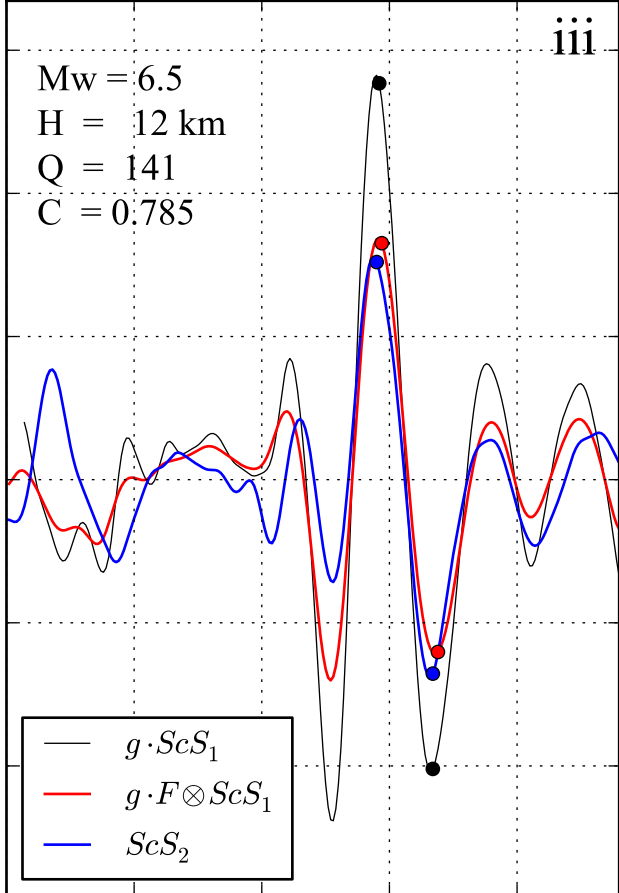
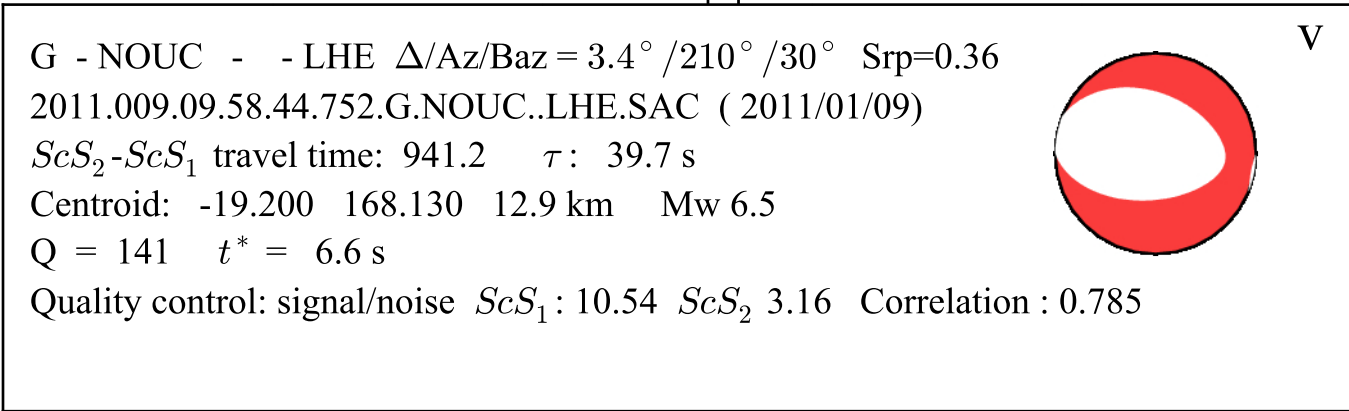
Displacement spectrum

Spectral ratio

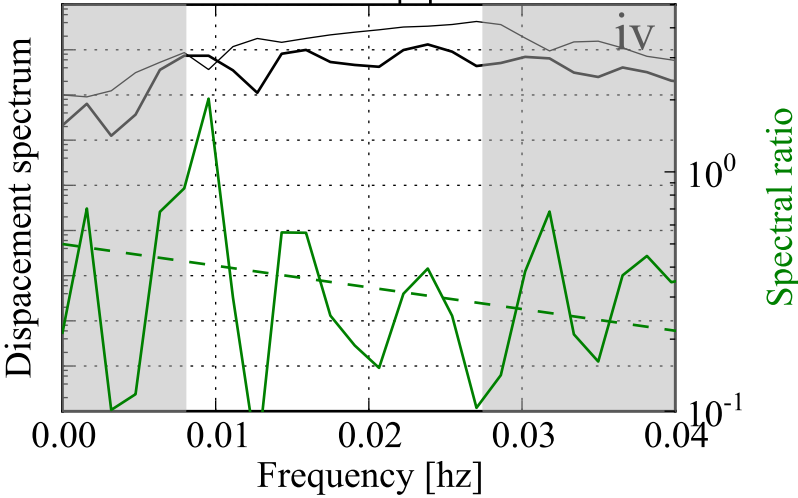
Frequency [hz]

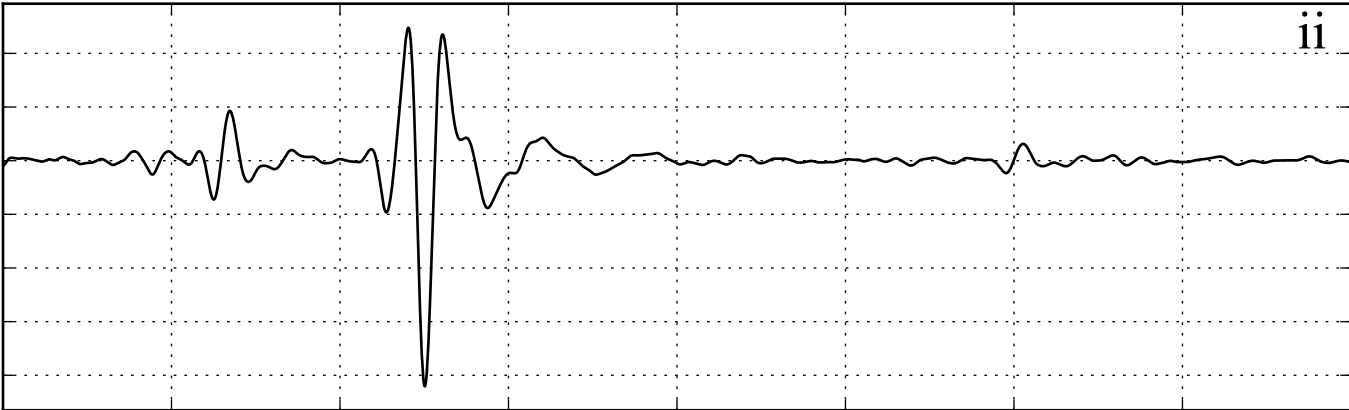
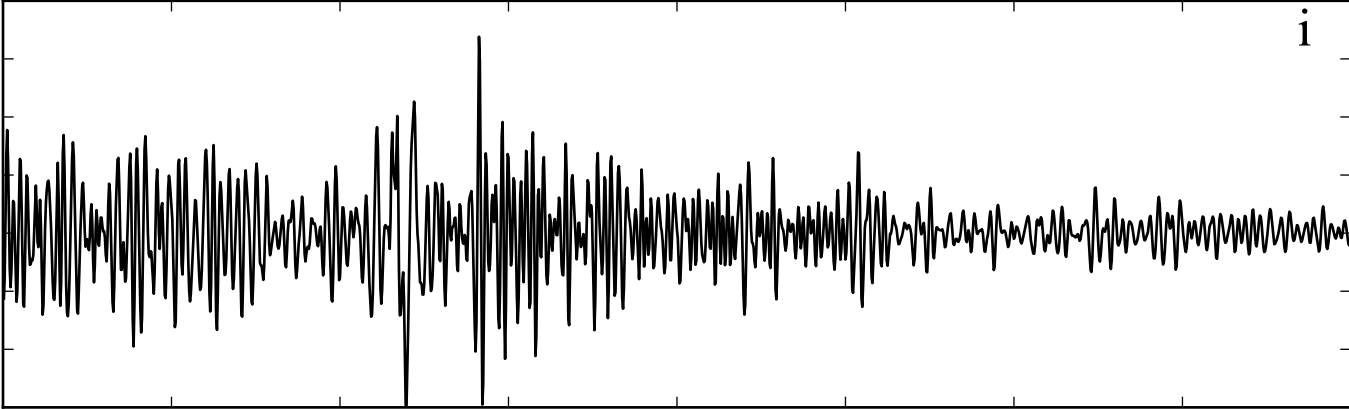


Time [s]

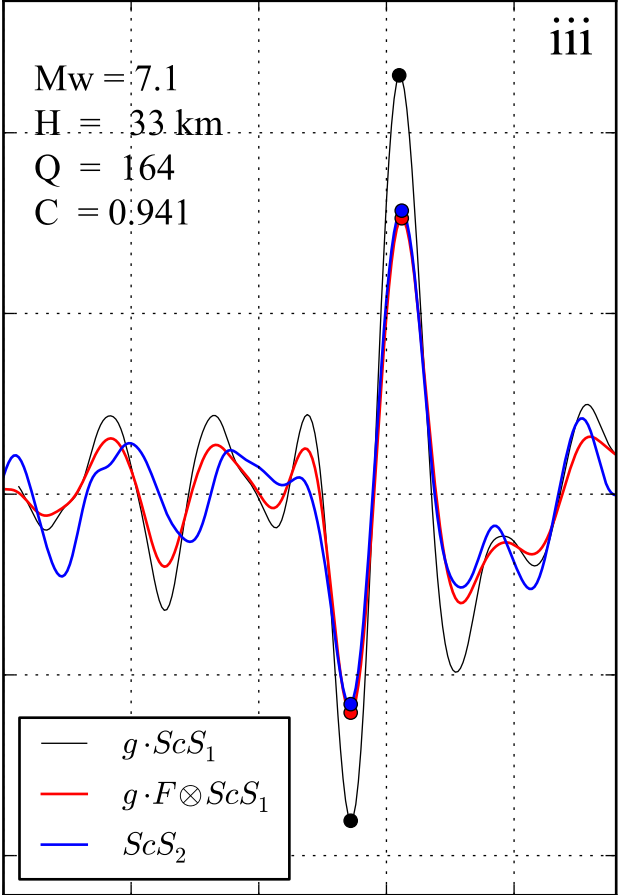
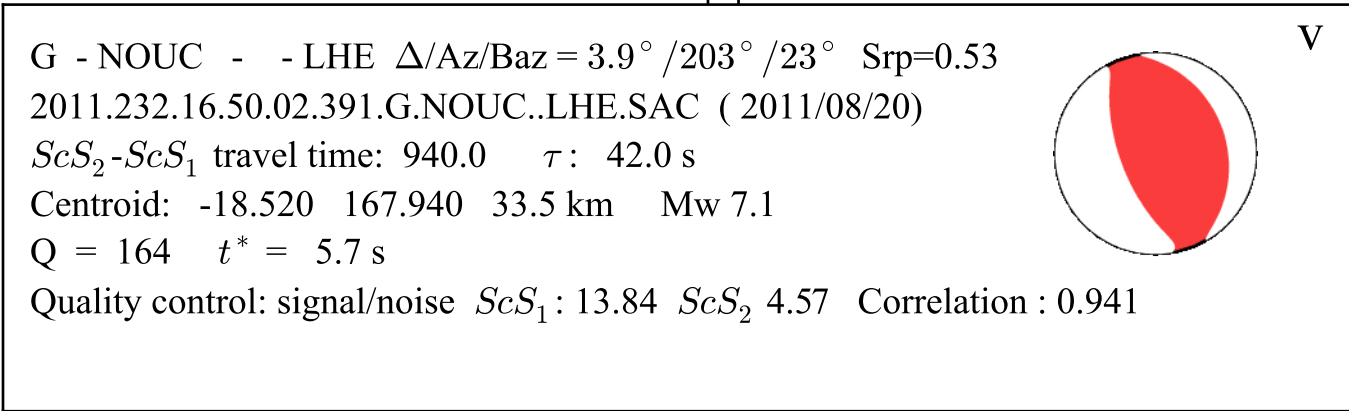


Time [s]

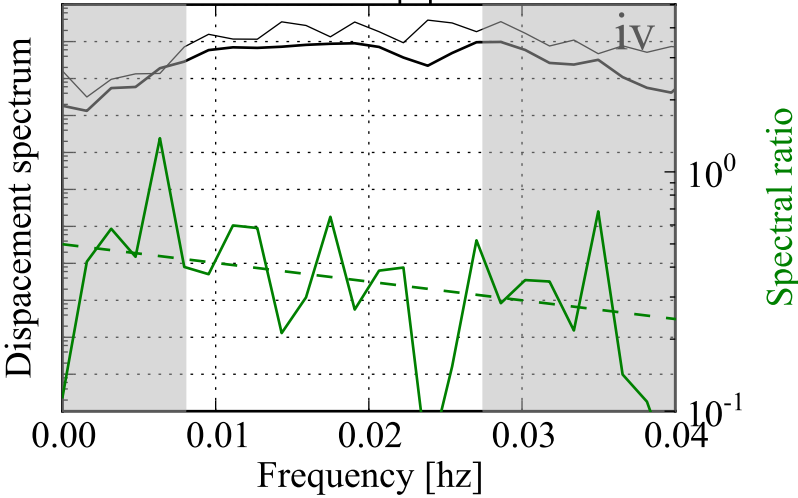


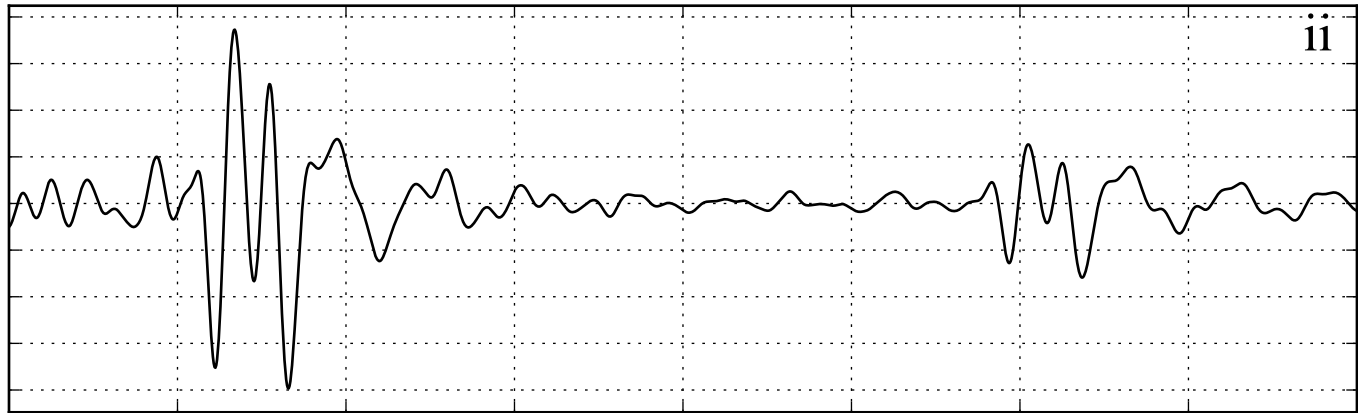
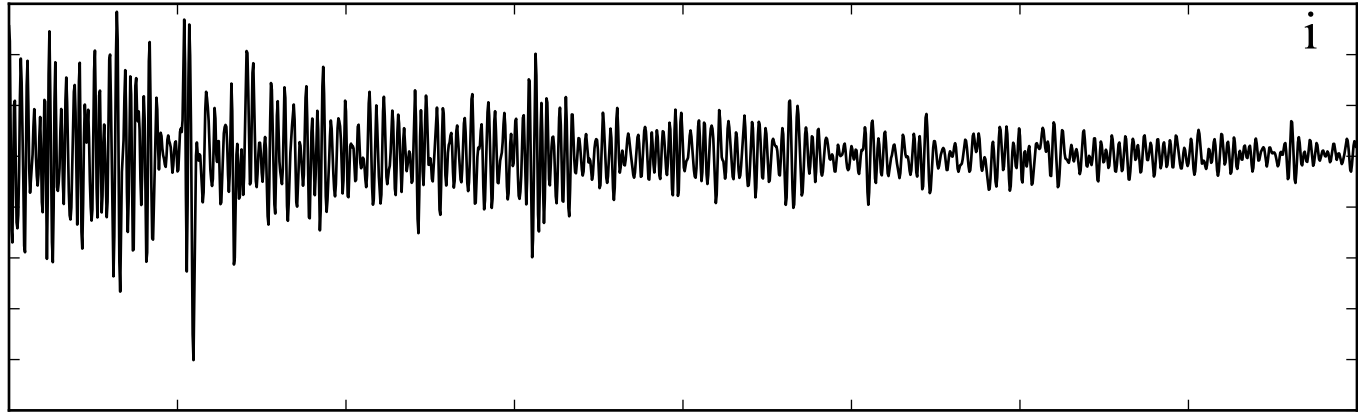


Time [s]

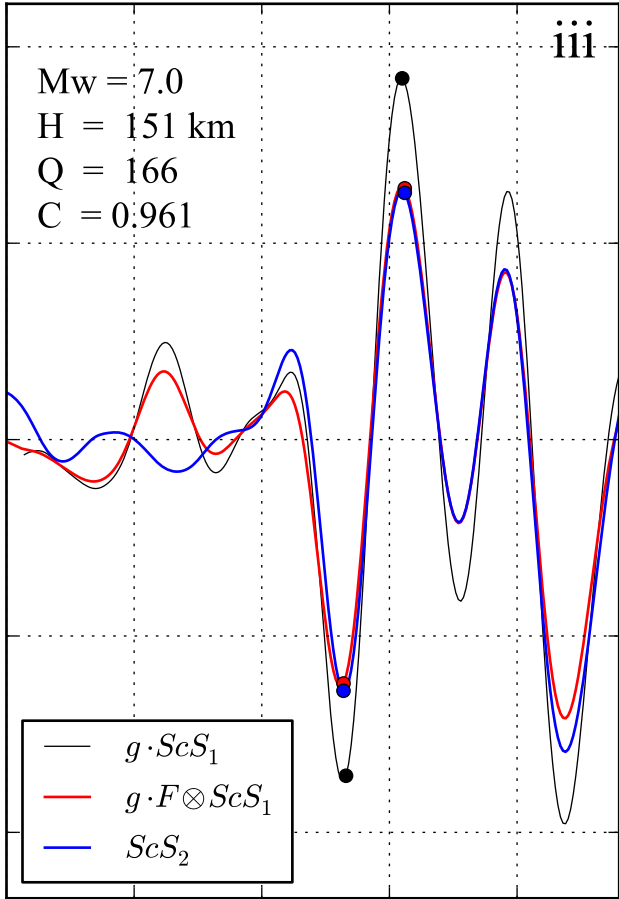
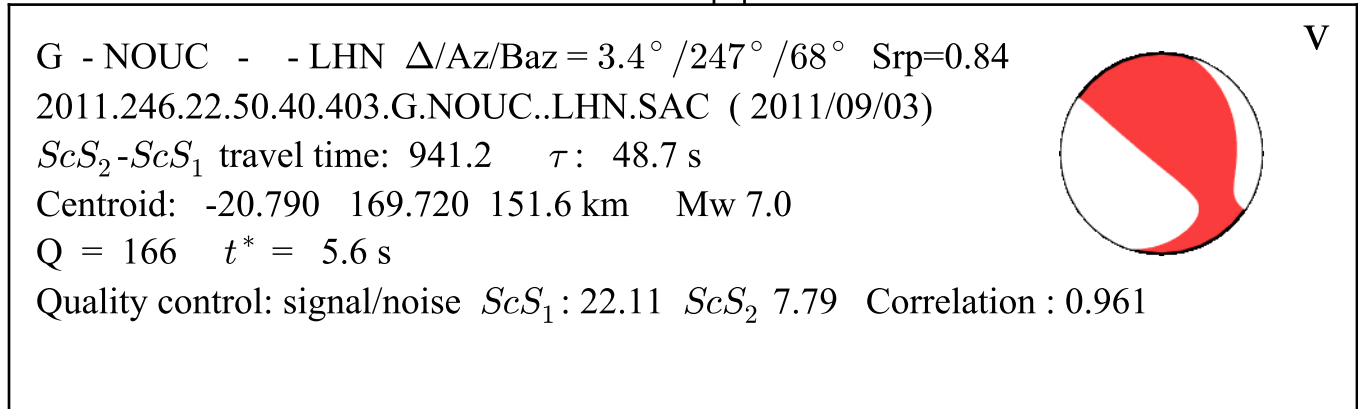


Time [s]

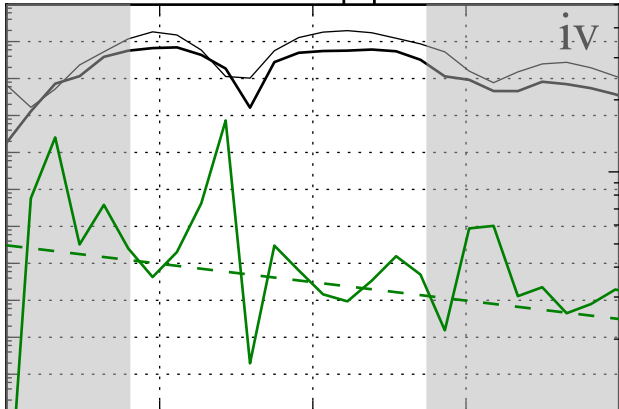




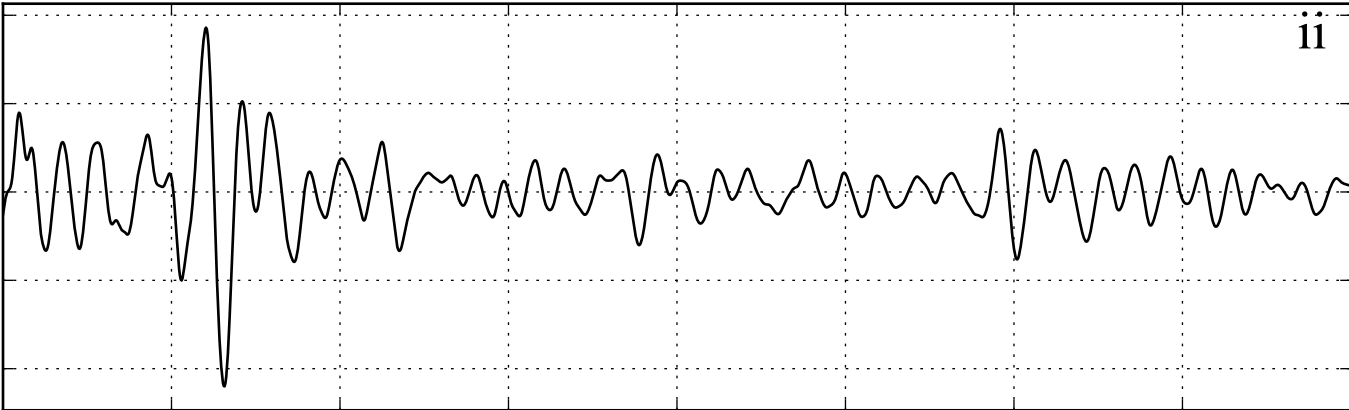
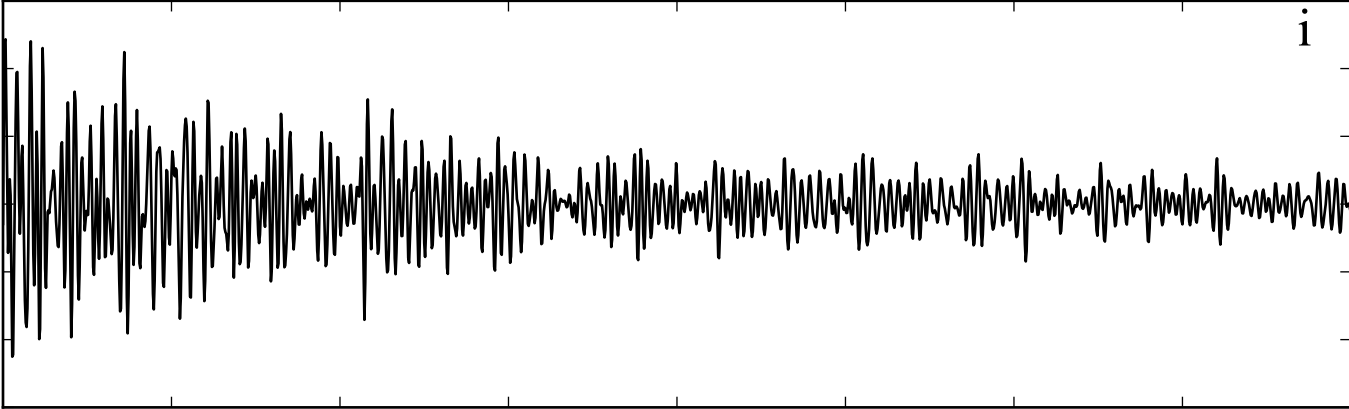
Time [s]



Time [s]

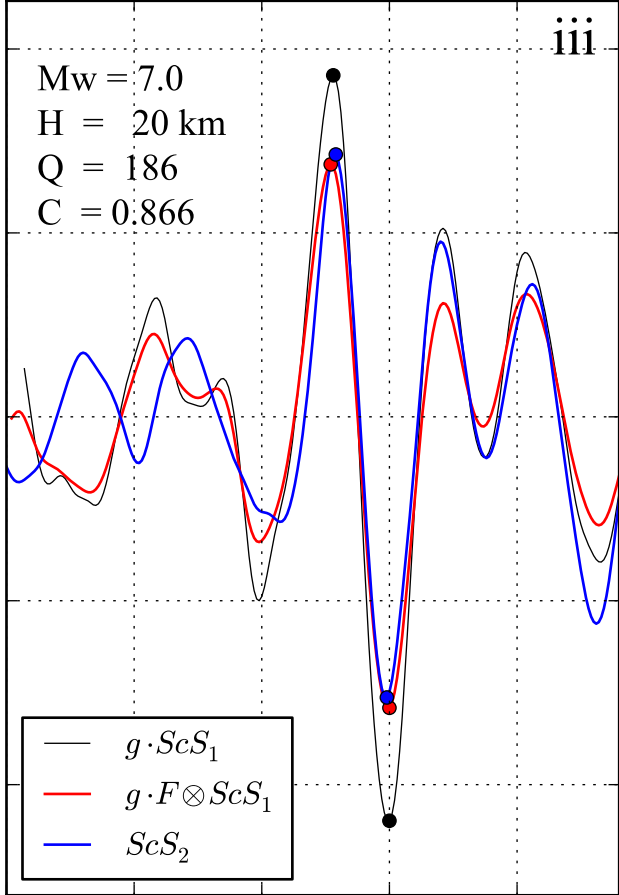
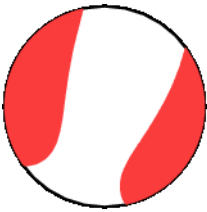


Frequency [hz]

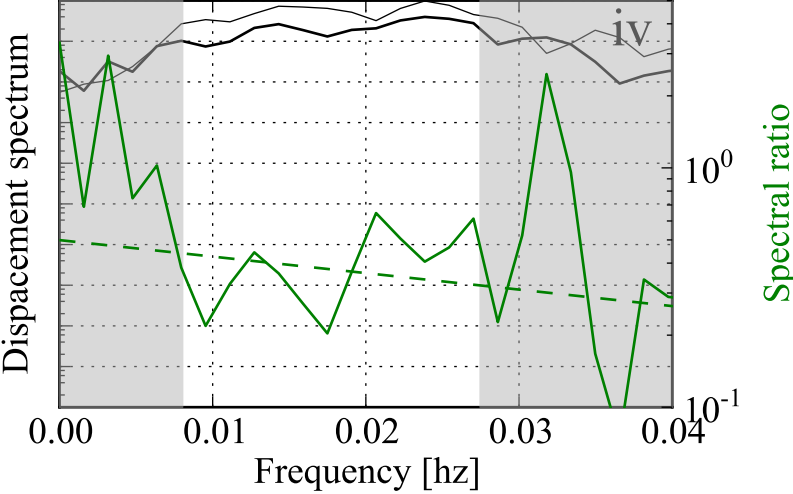


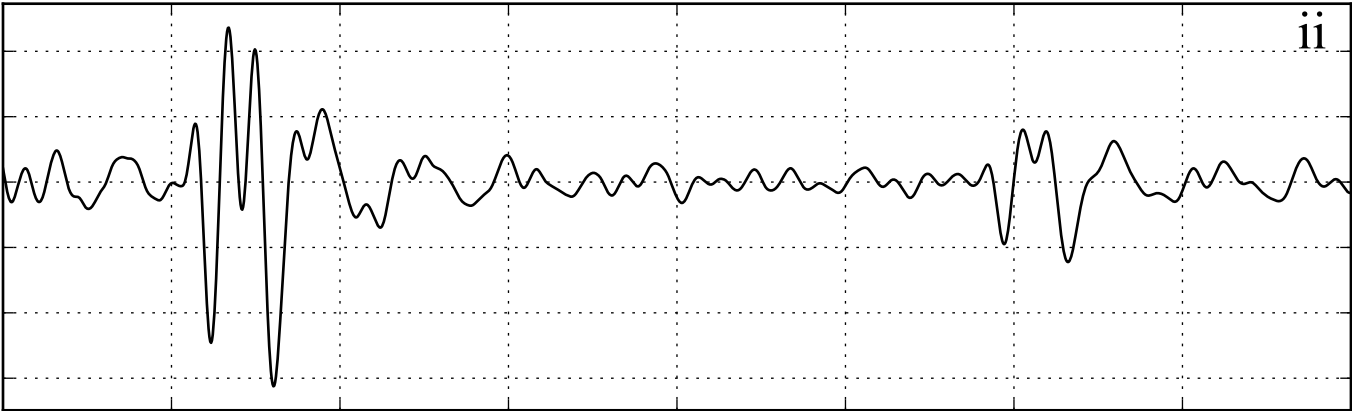
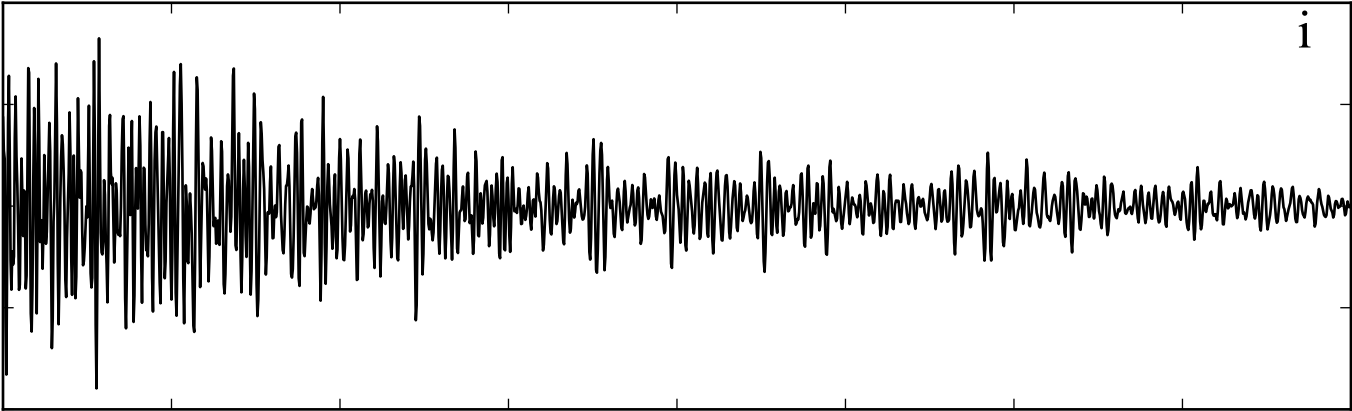
Time [s]

G - NOUC - - LHN $\Delta/Az/Baz = 4.5^\circ/189^\circ/9^\circ$ $Srp=0.28$
2012.033.13.29.40.013.G.NOUC..LHN.SAC (2012/02/02)
 ScS_2-ScS_1 travel time: 940.8 τ : 46.4 s
Centroid: -17.690 167.110 20.5 km Mw 7.0
 $Q = 186$ $t^* = 5.1$ s
Quality control: signal/noise ScS_1 : 8.59 ScS_2 3.12 Correlation : 0.866

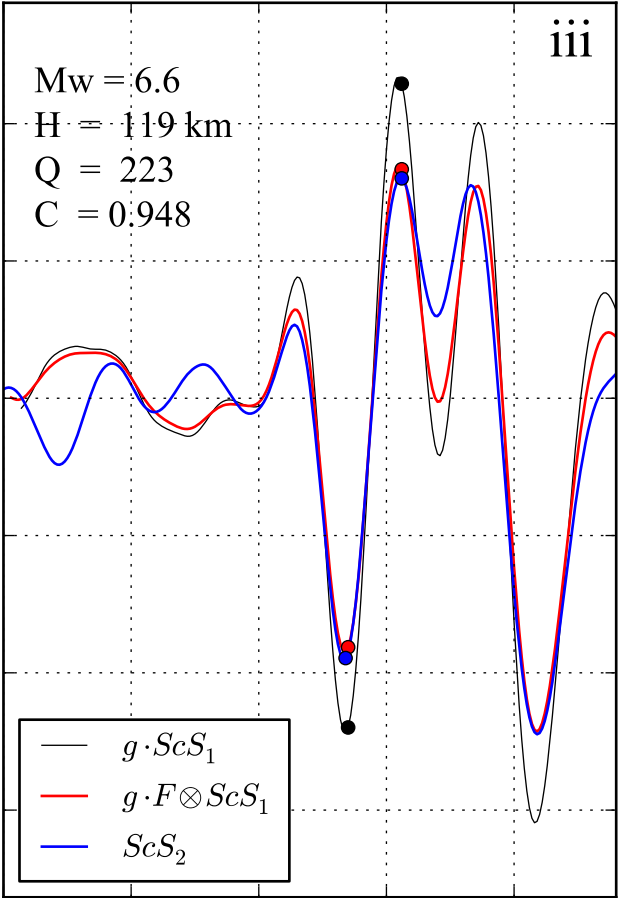
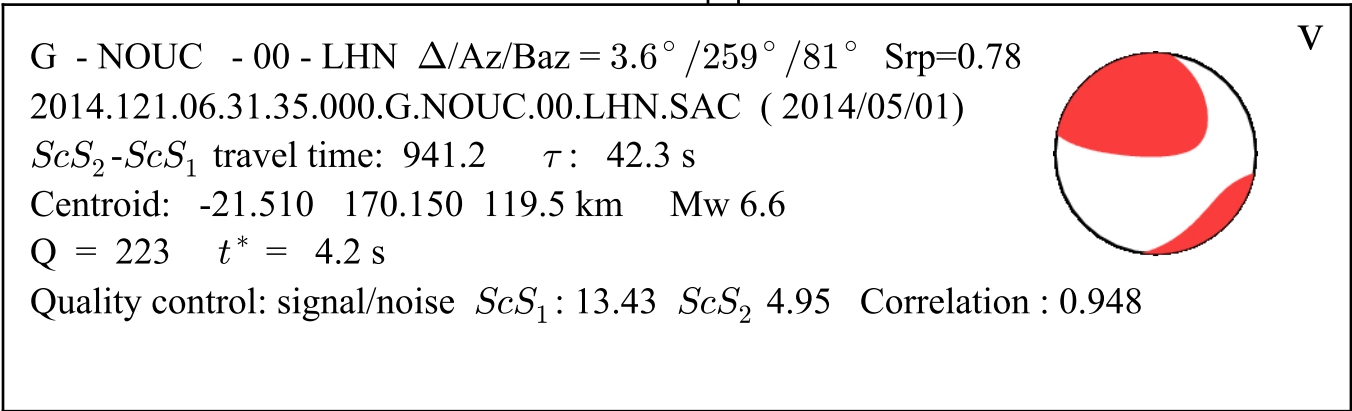


Time [s]

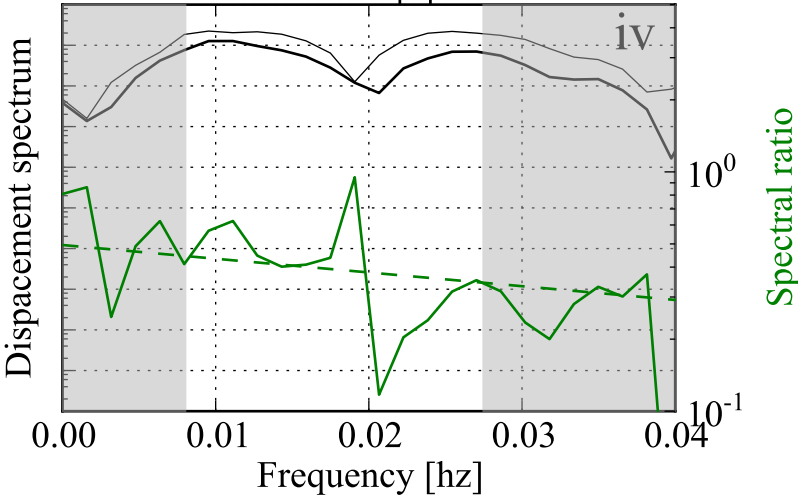


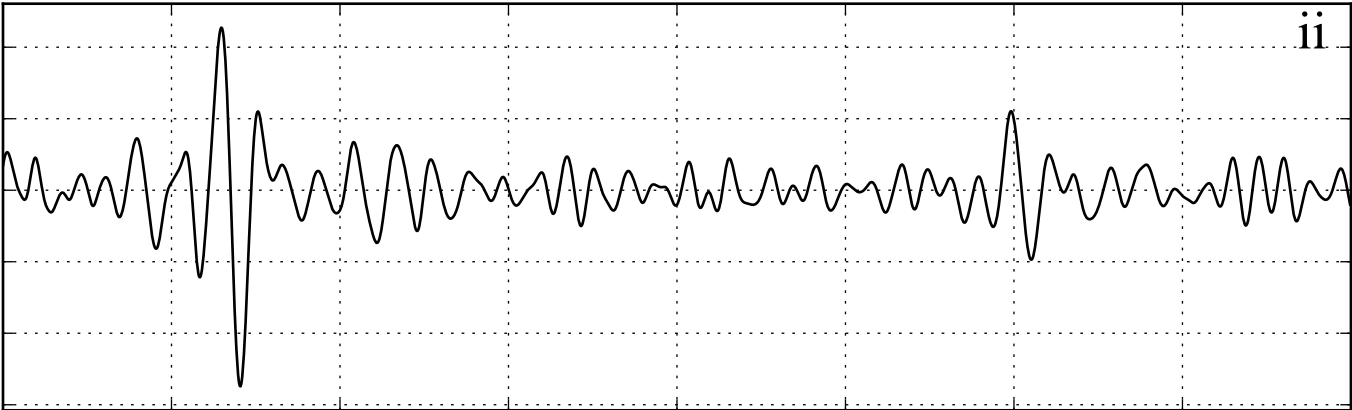
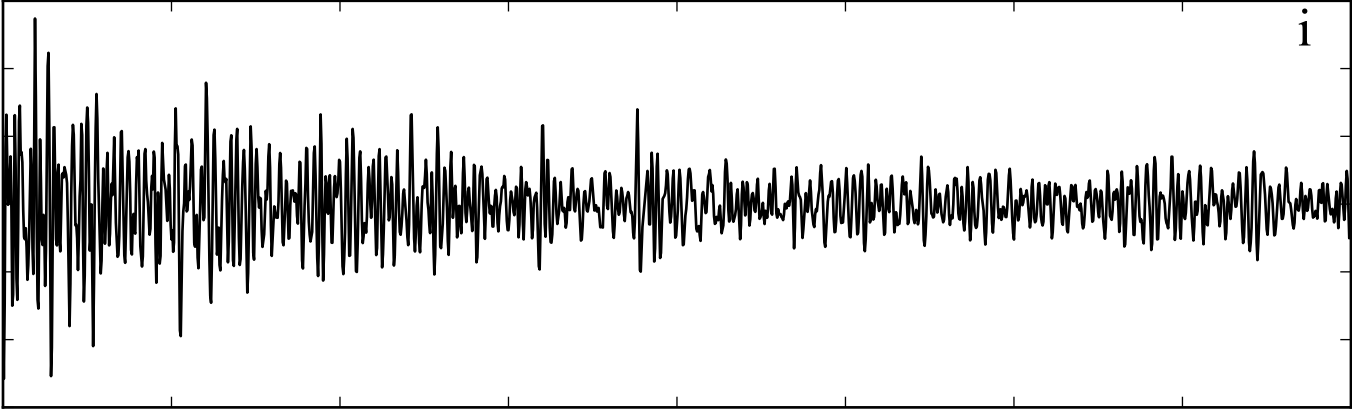


Time [s]



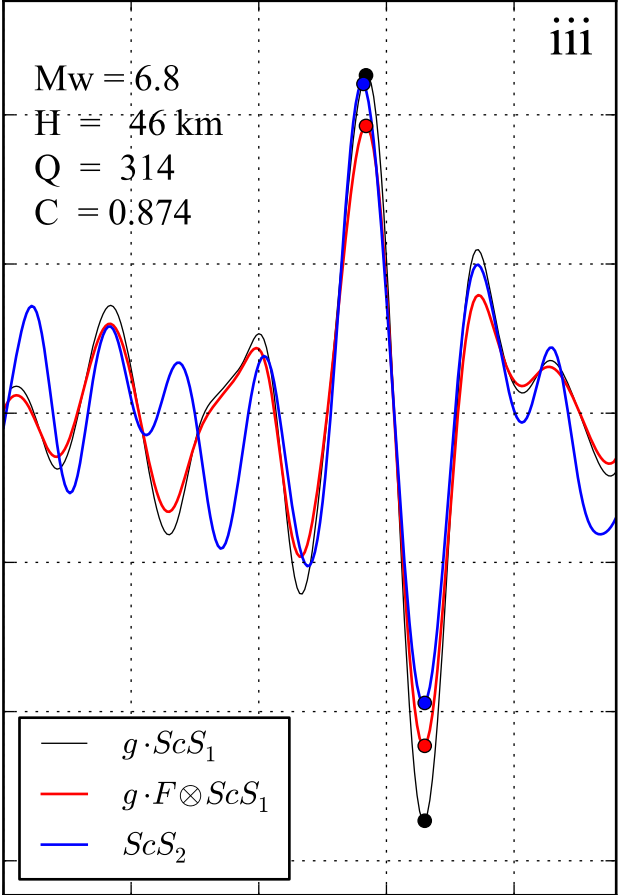
Time [s]



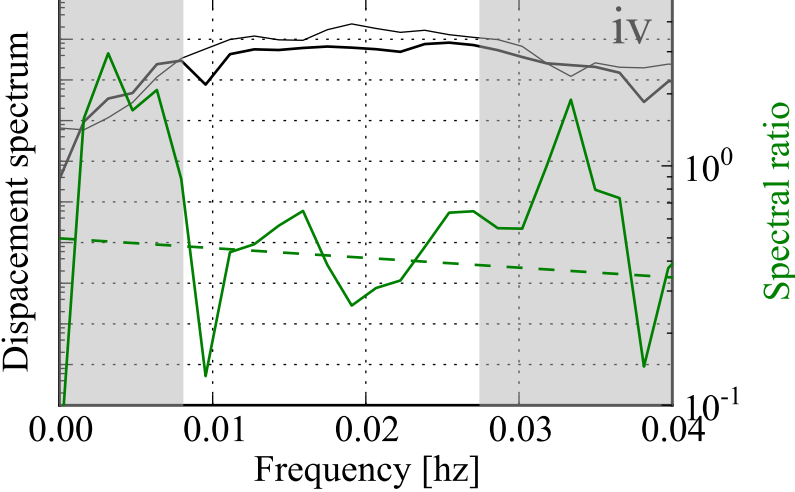


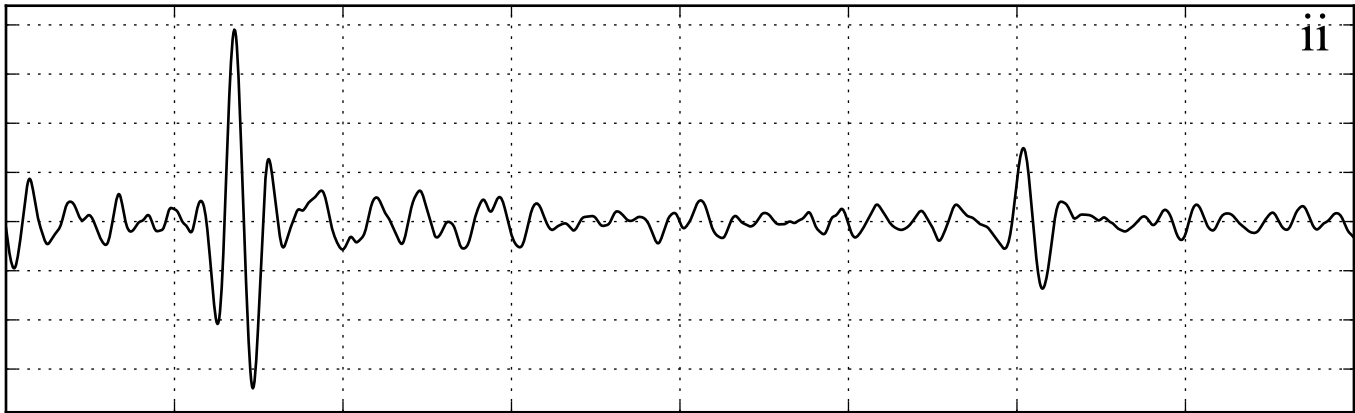
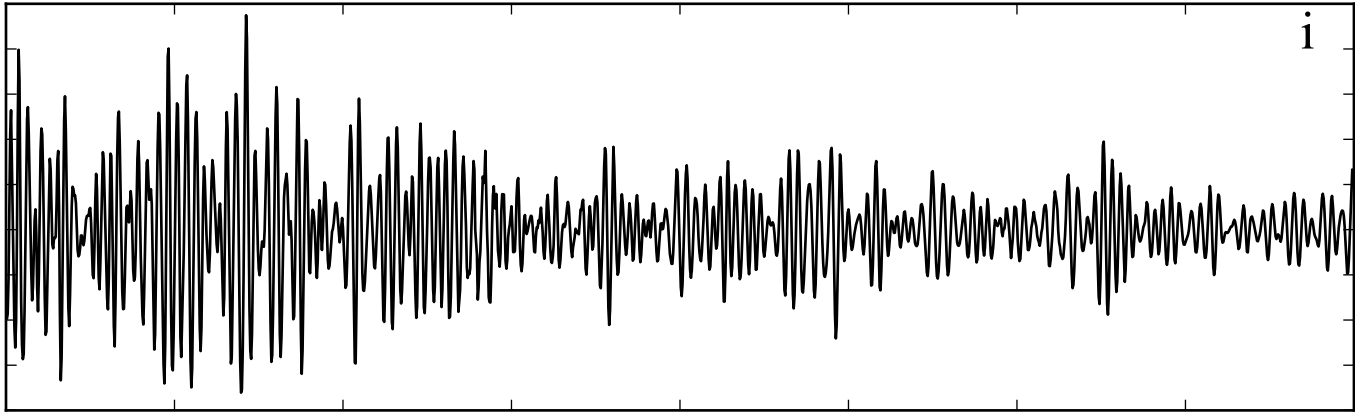
Time [s]

US - OCWA - - LHE $\Delta/Az/Baz = 1.3^\circ/299^\circ/117^\circ$ $Srp=0.83$
2001.059.18.49.32.389.US.OCWA..LHE.SAC (2001/02/28)
 ScS_2-ScS_1 travel time: 939.3 τ : 47.3 s
Centroid: 47.140 -122.530 46.8 km Mw 6.8
 $Q = 314$ $t^* = 3.0$ s
Quality control: signal/noise ScS_1 : 9.18 ScS_2 3.79 Correlation : 0.874

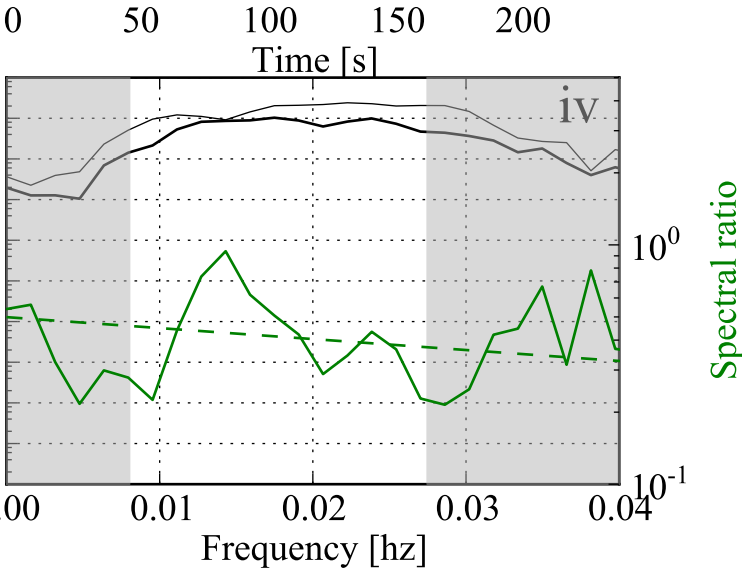
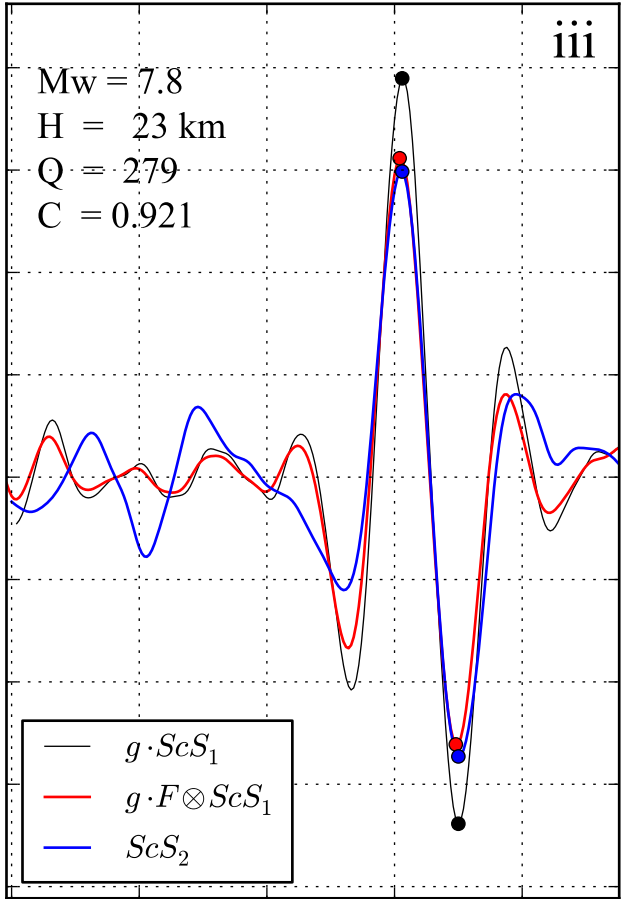
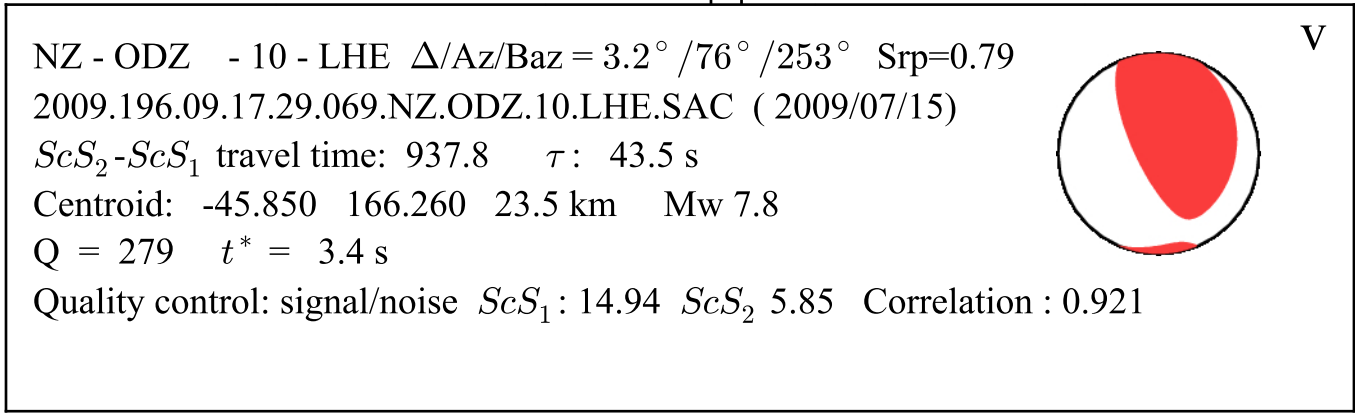


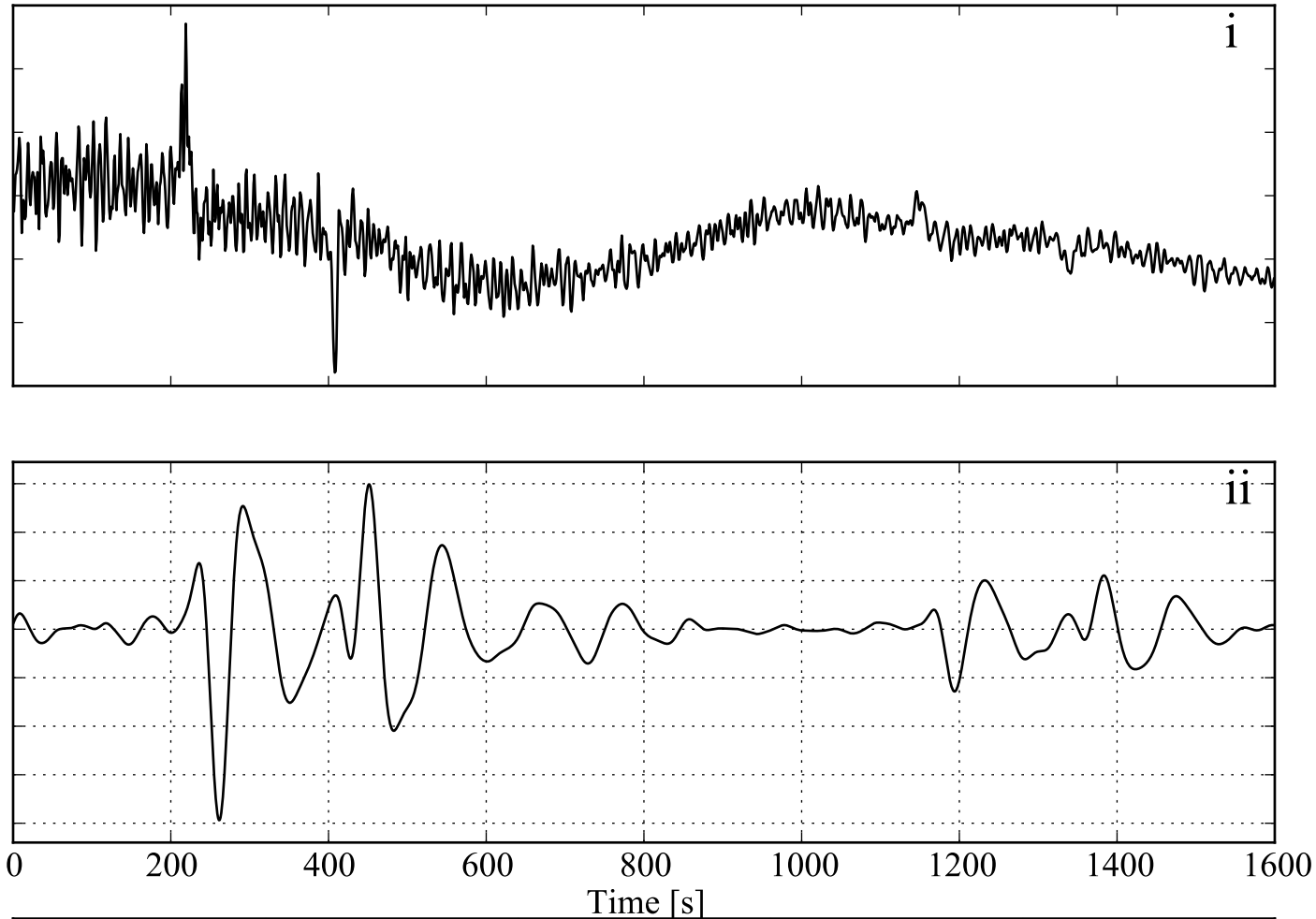
Time [s]



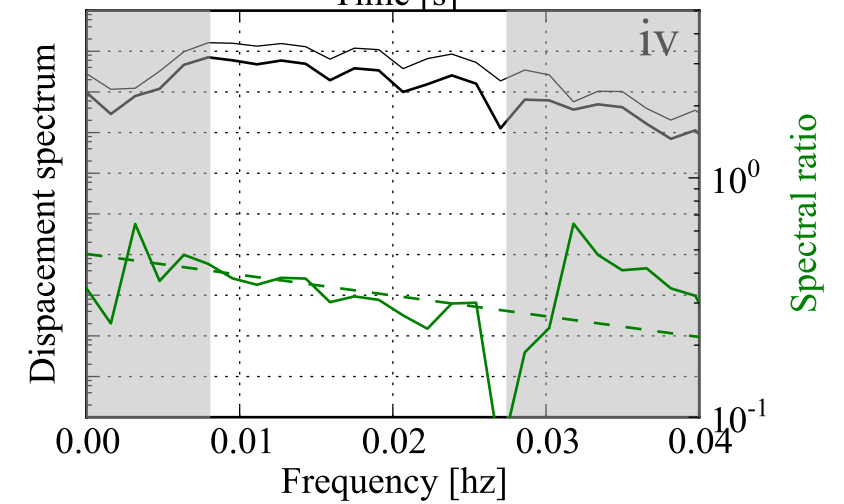
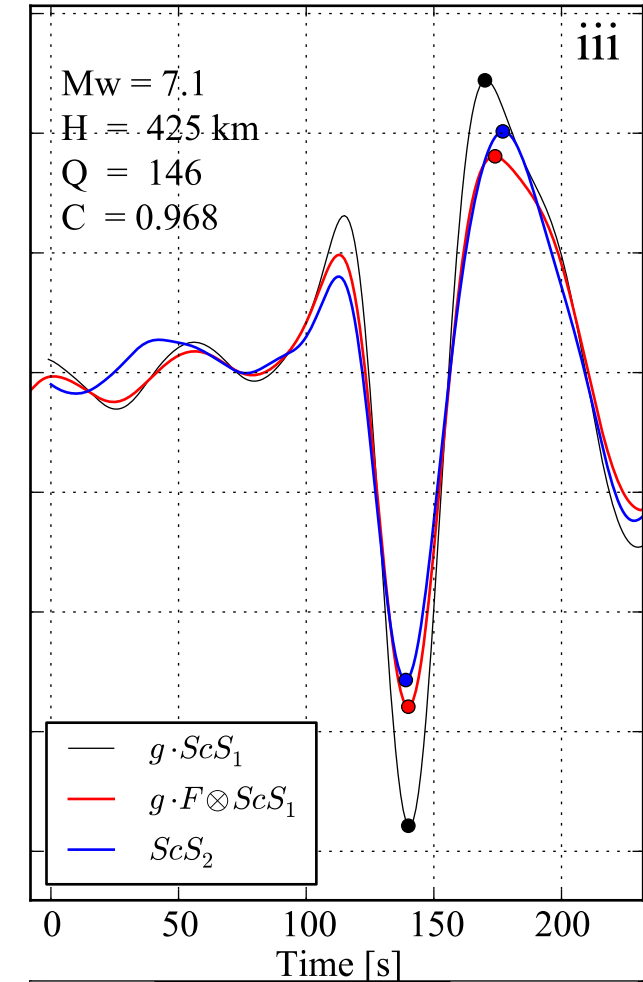
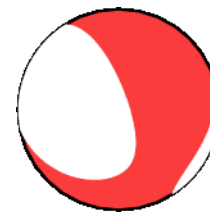


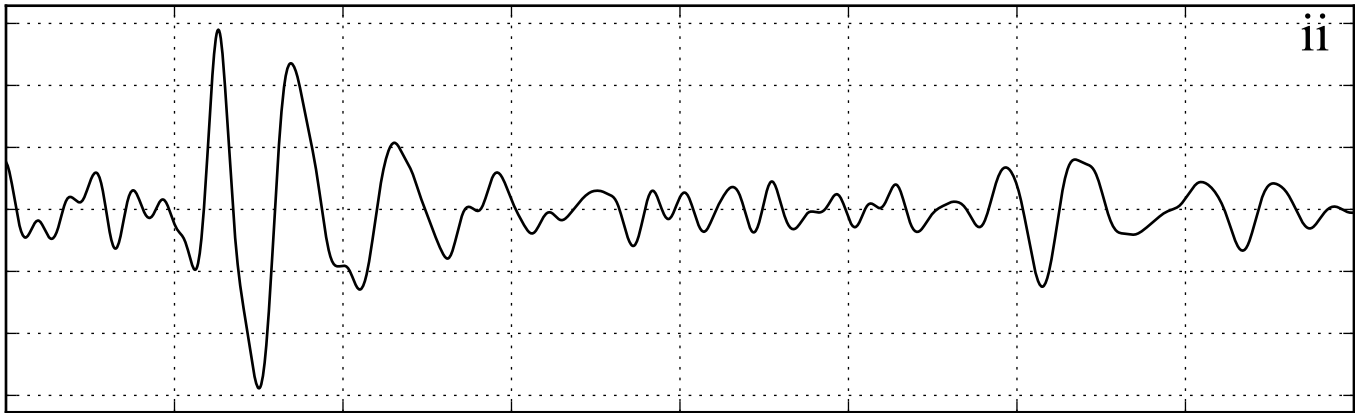
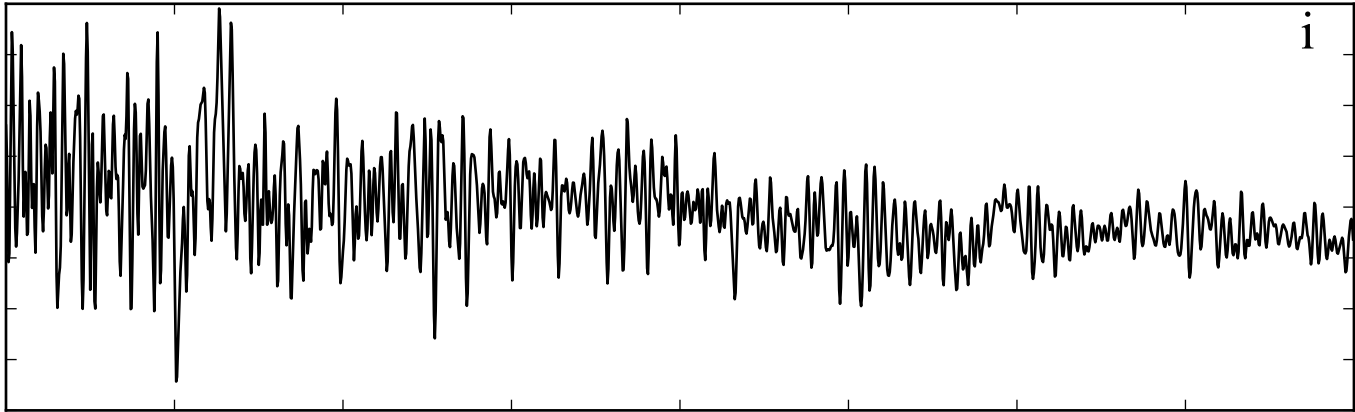
Time [s]



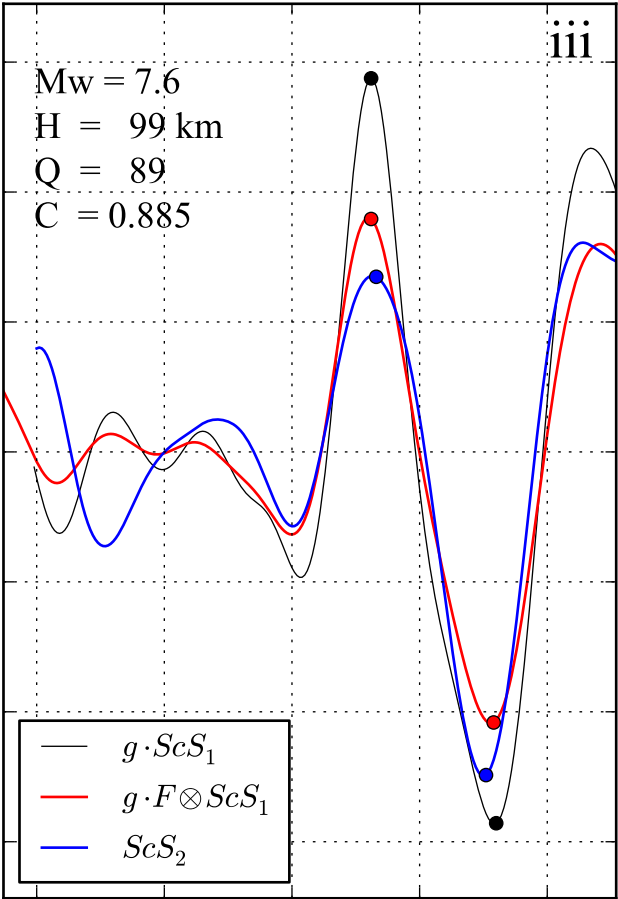
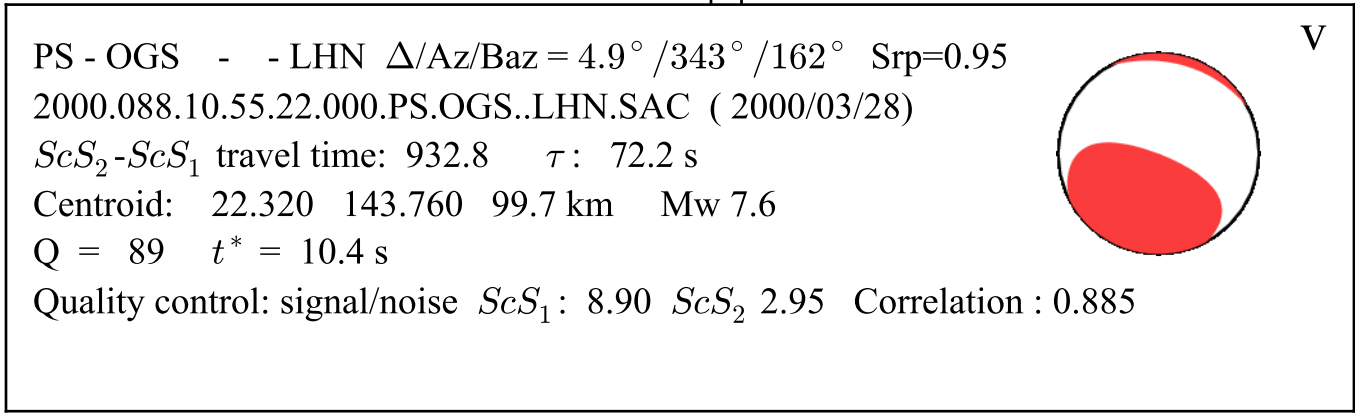


PS - OGS - - LHE $\Delta/Az/Baz = 3.1^\circ / 127^\circ / 309^\circ$ $Srp=0.88$
 1998.232.06.35.55.000.PS.OGS..LHE.SAC (1998/08/20)
 ScS_2 - ScS_1 travel time: 933.7 τ : 61.0 s
 Centroid: 28.990 139.470 425.5 km Mw 7.1
 $Q = 146$ $t^* = 6.4$ s
 Quality control: signal/noise ScS_1 : 21.58 ScS_2 7.64 Correlation : 0.968

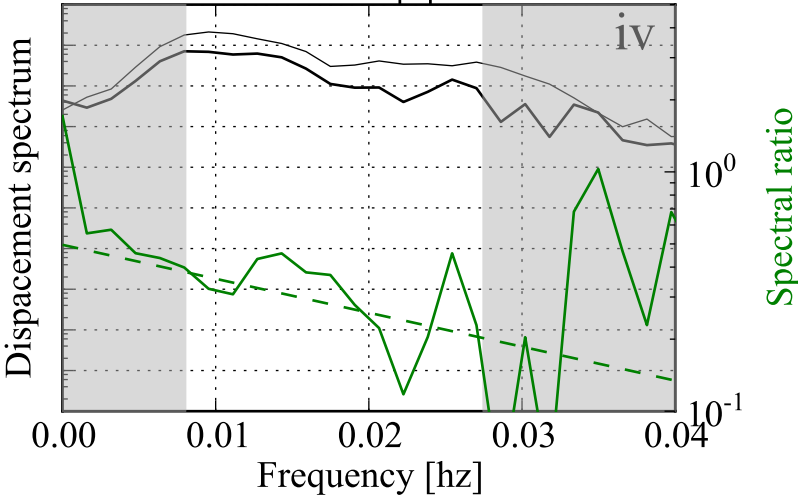


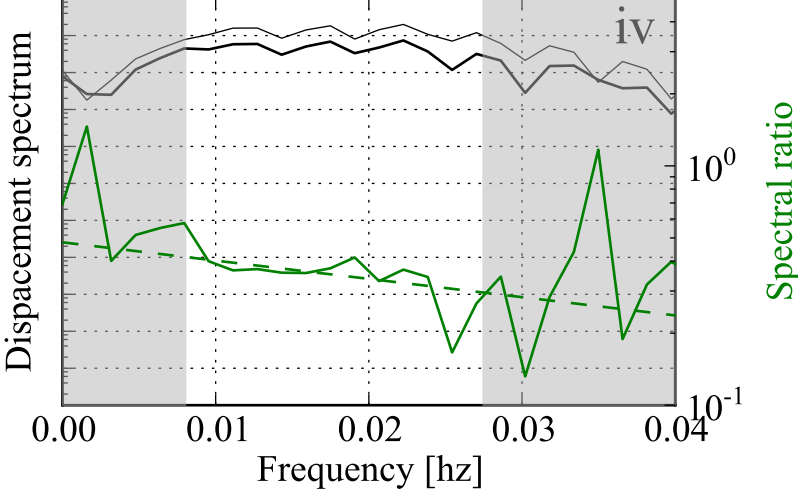
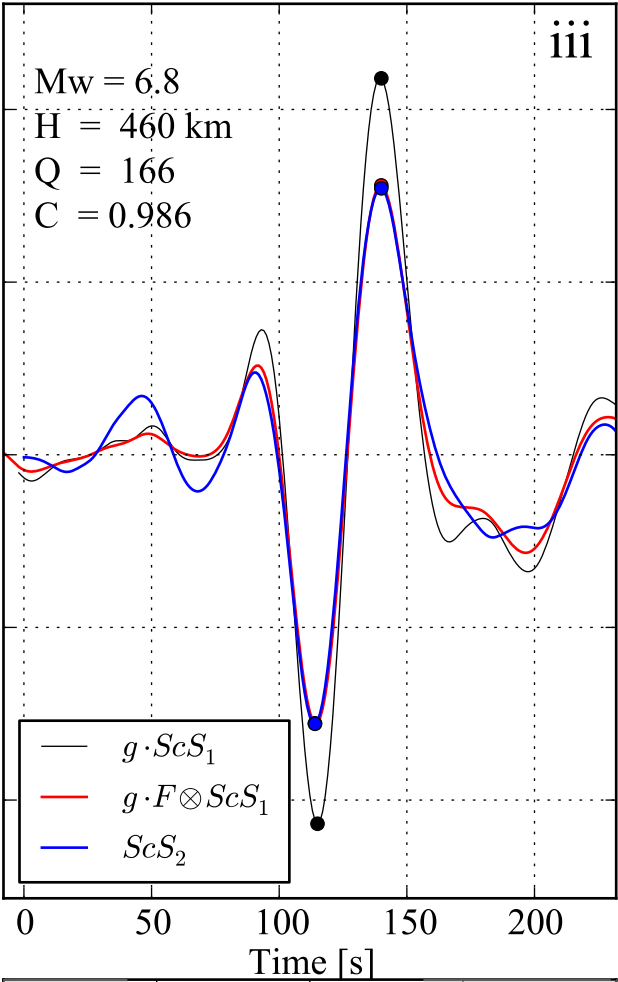
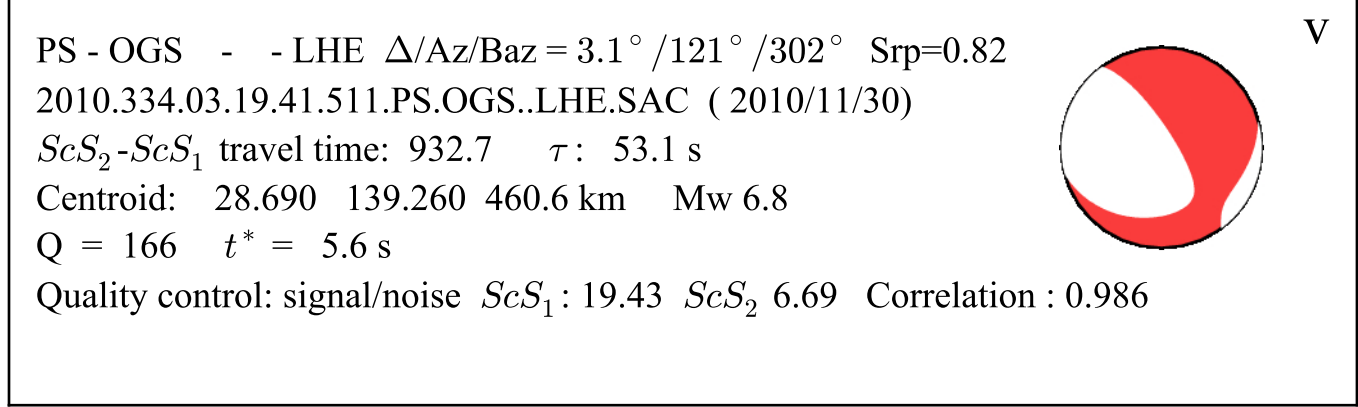
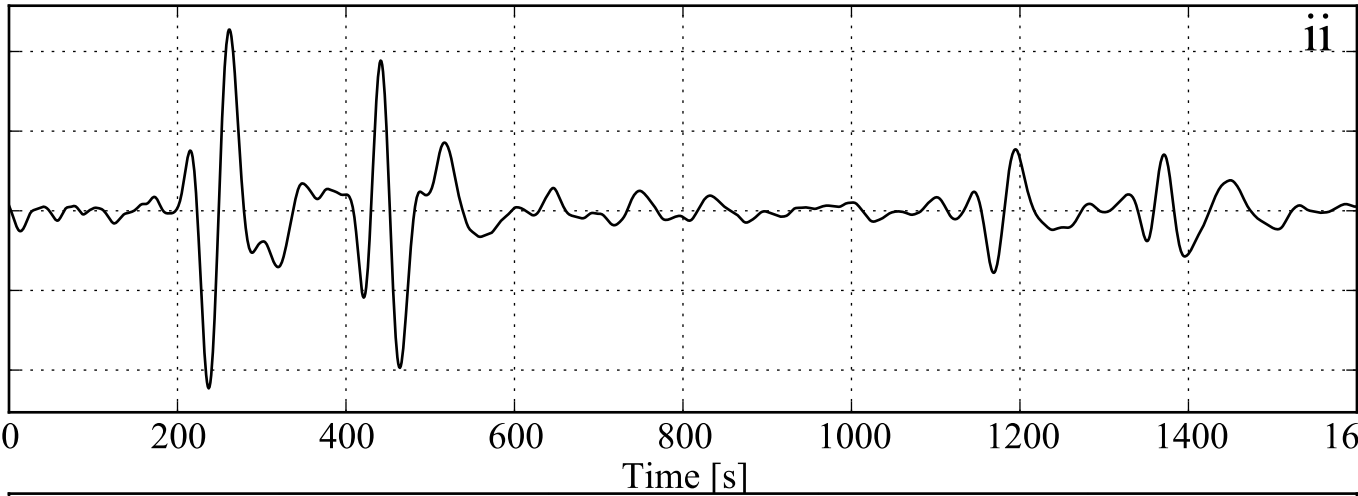
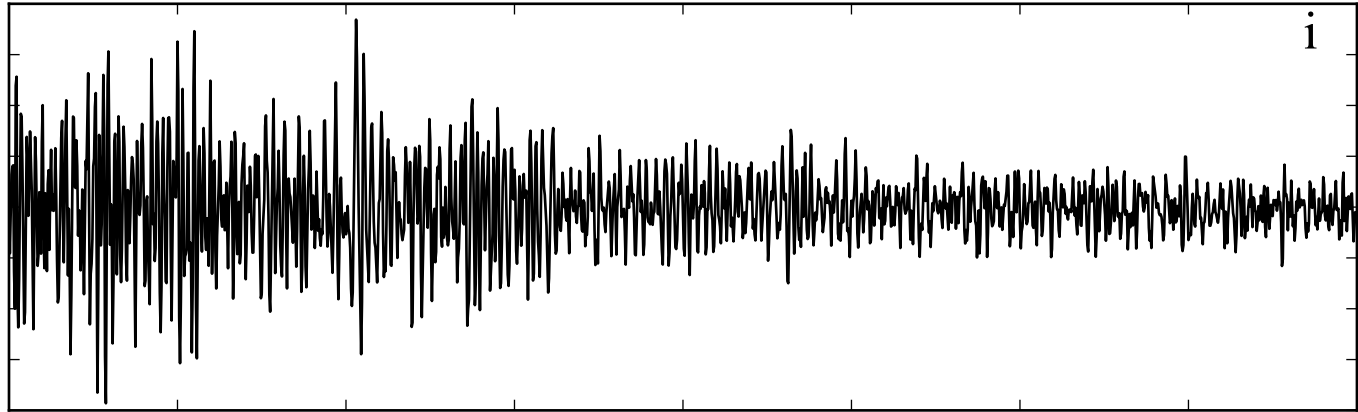


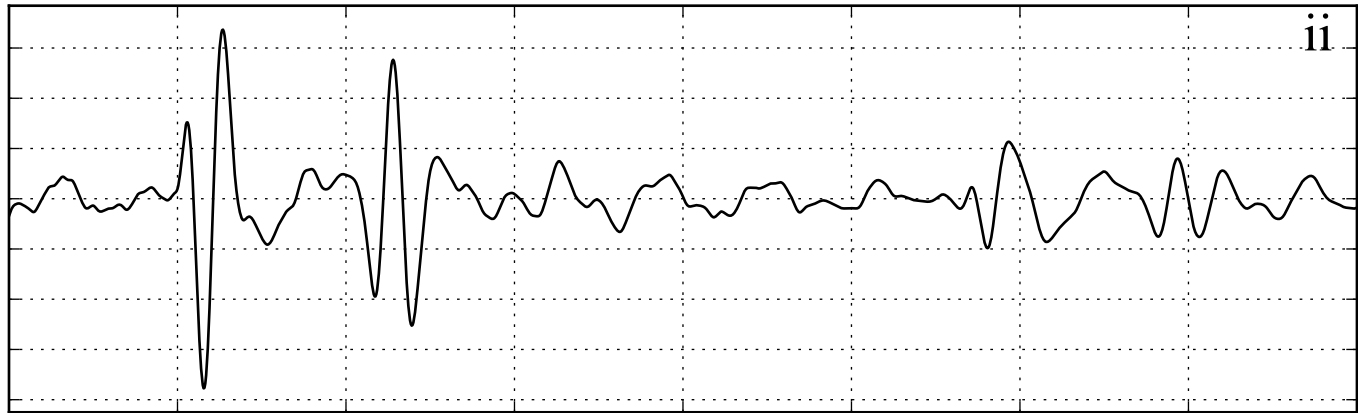
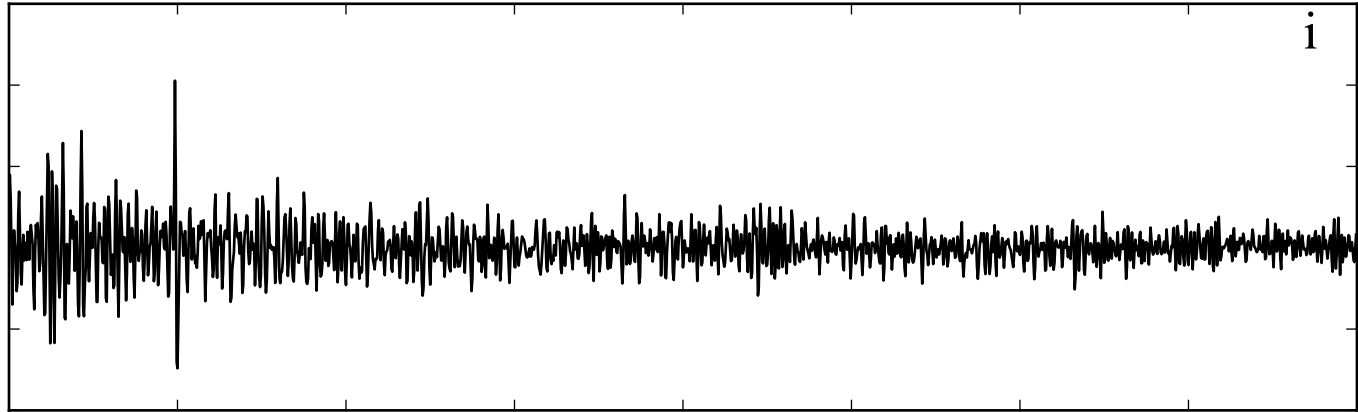
Time [s]



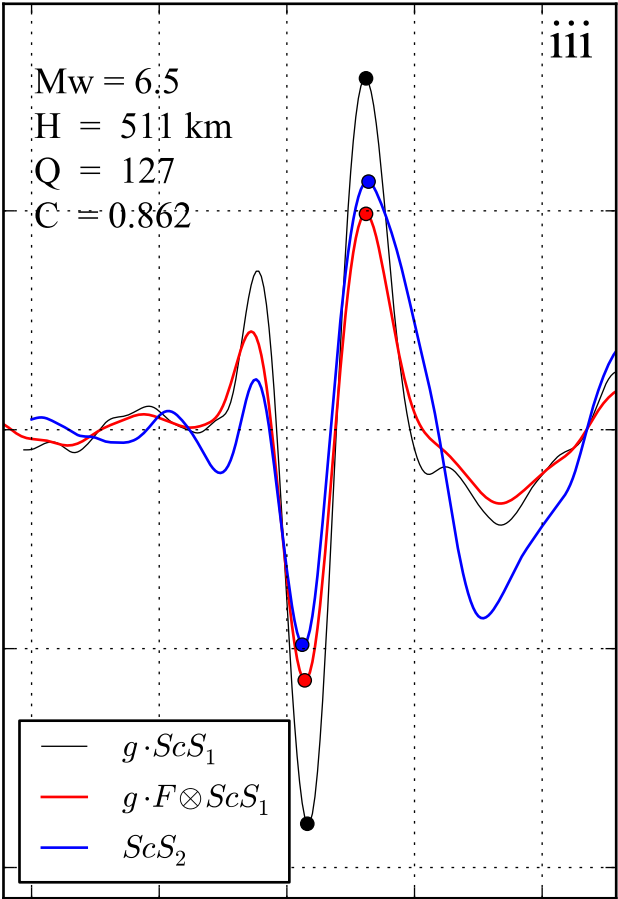
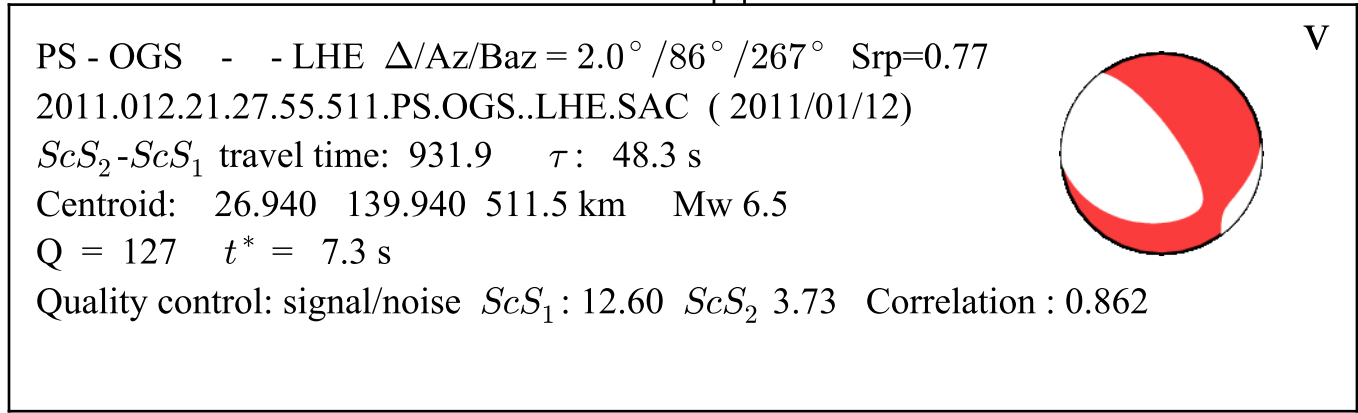
Time [s]



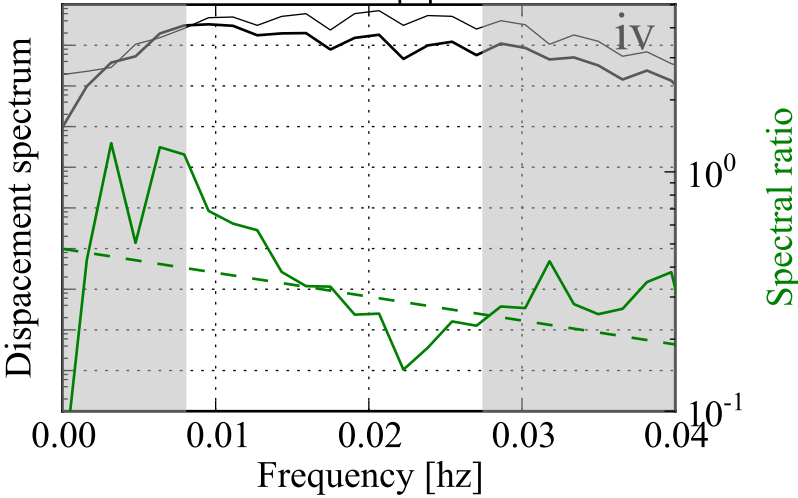


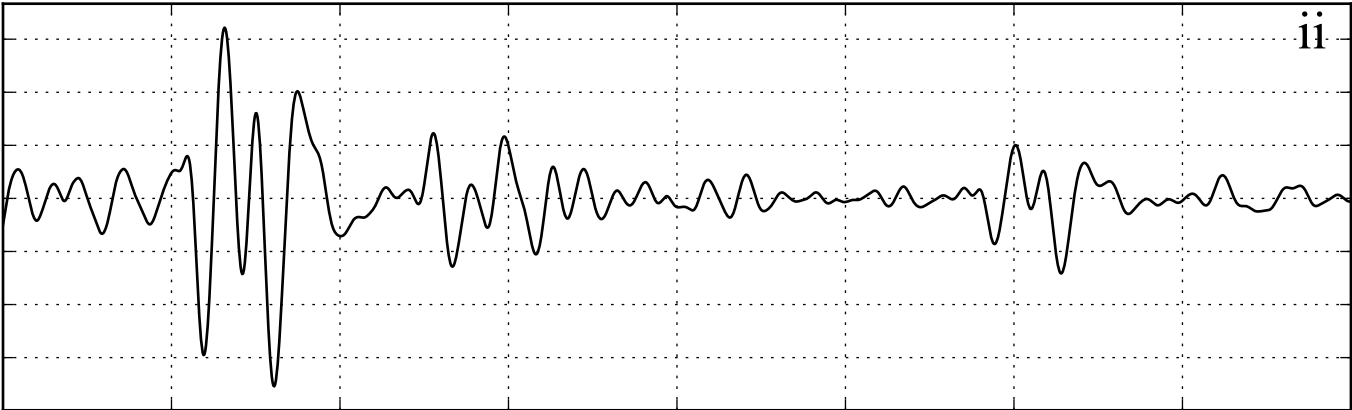
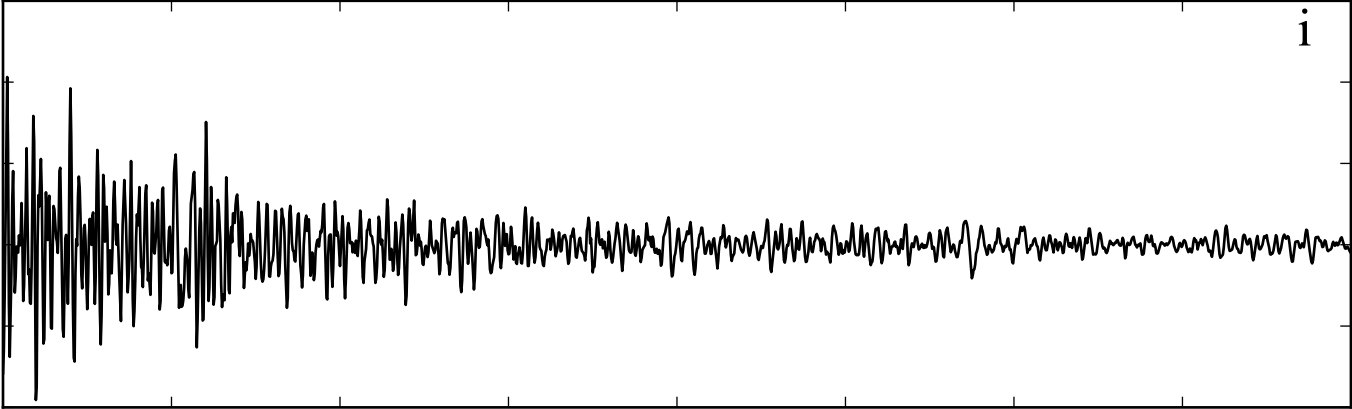


Time [s]

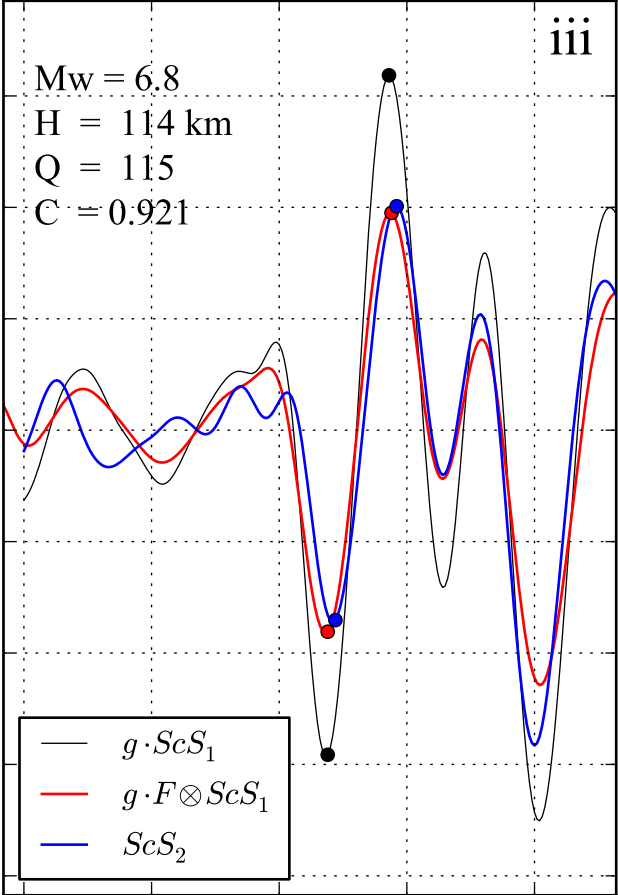
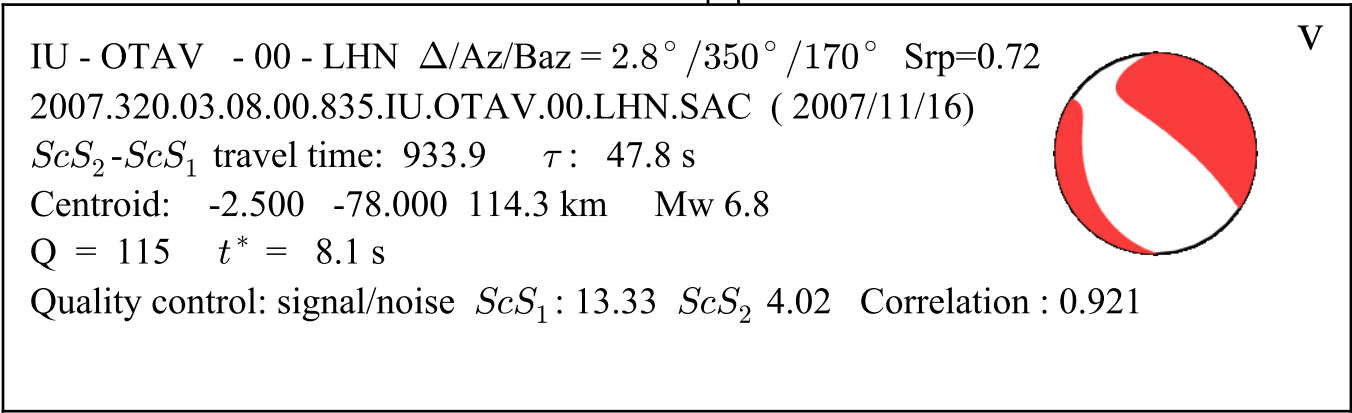


Time [s]

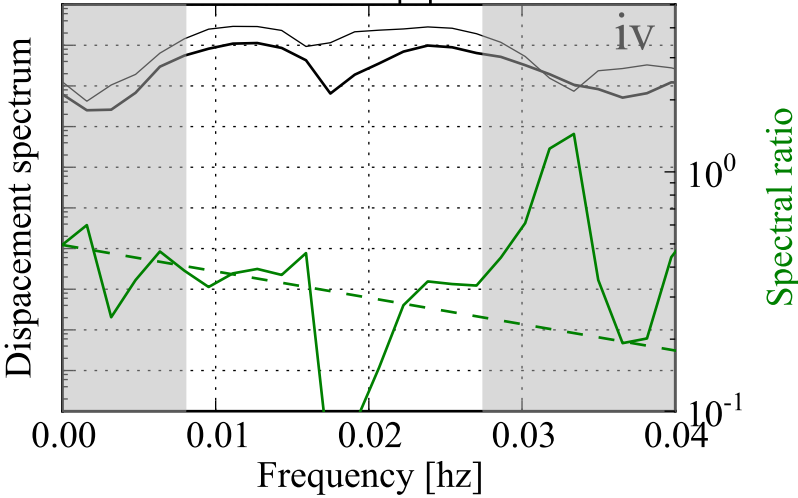


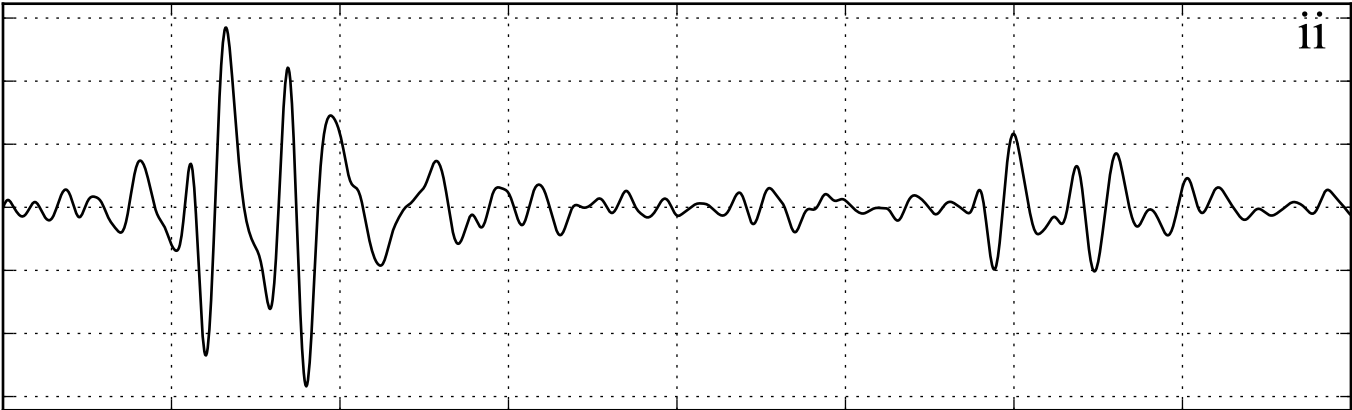
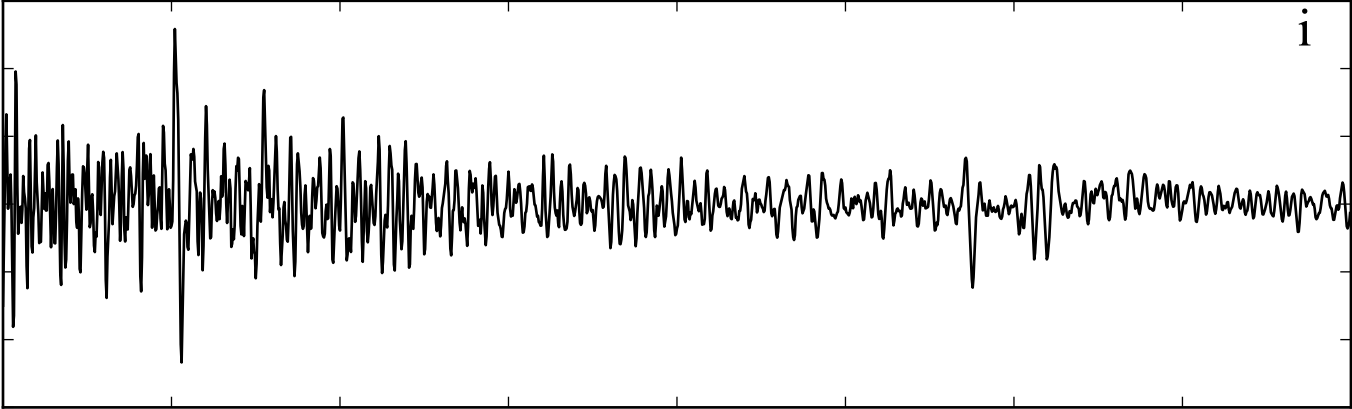


Time [s]



Time [s]





Time [s]

IU - OTAV - 00 - LH1 $\Delta/Az/Baz = 2.0^\circ/331^\circ/151^\circ$ $Srp=0.77$

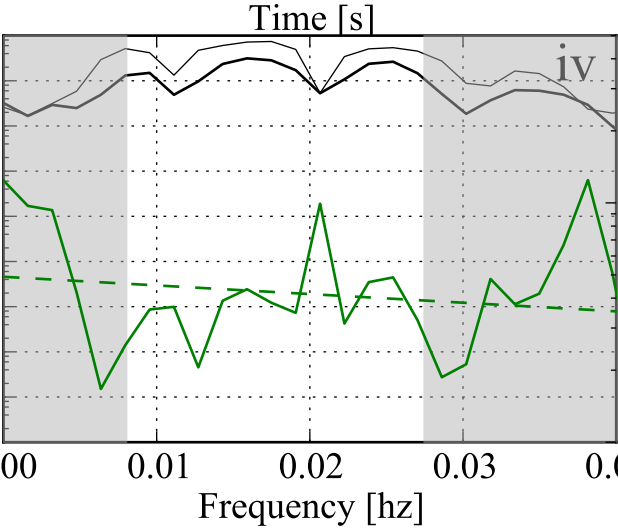
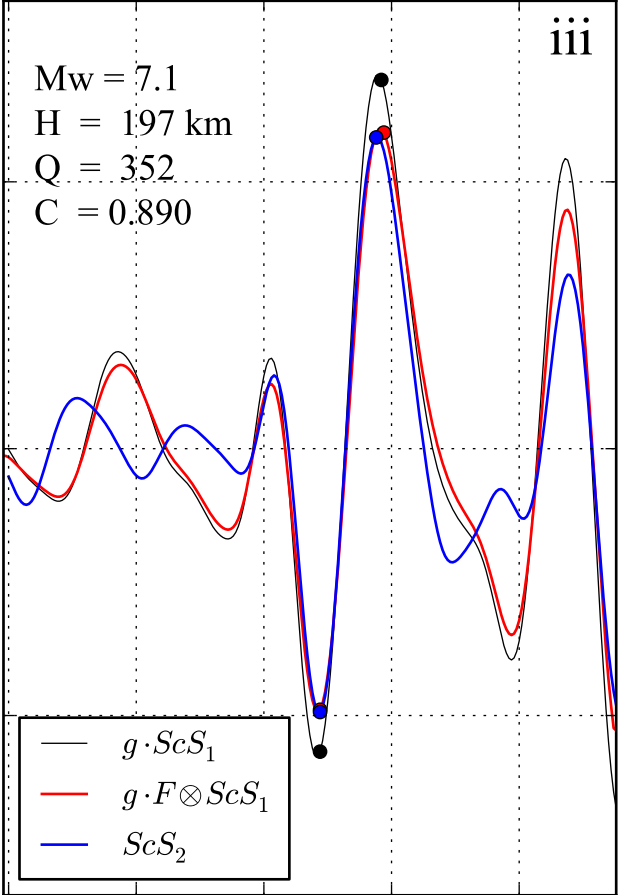
2010.224.11.49.15.069.IU.OTAV.00.LH1.SAC (2010/08/12)

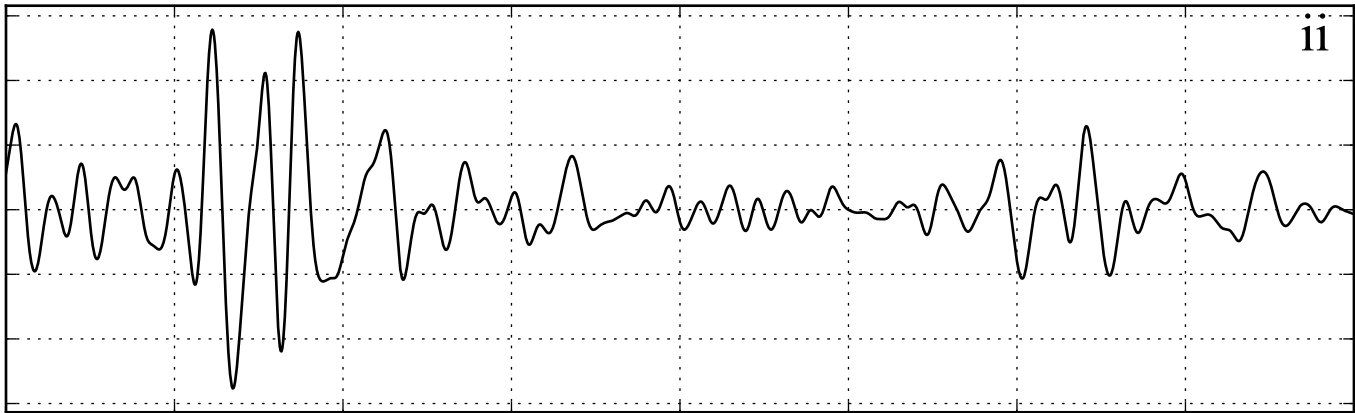
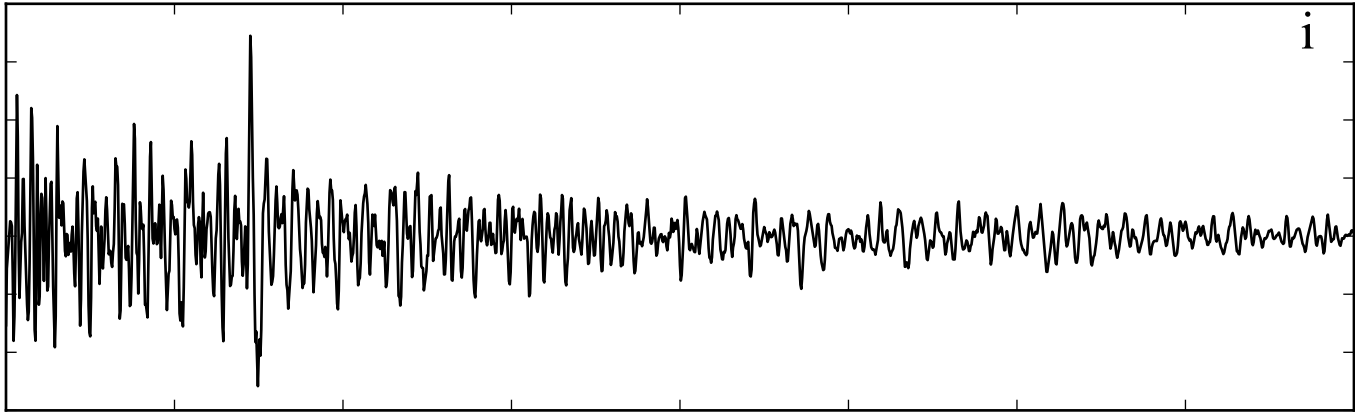
ScS_2-ScS_1 travel time: 934.0 τ : 53.3 s

Centroid: -1.510 -77.510 197.8 km Mw 7.1

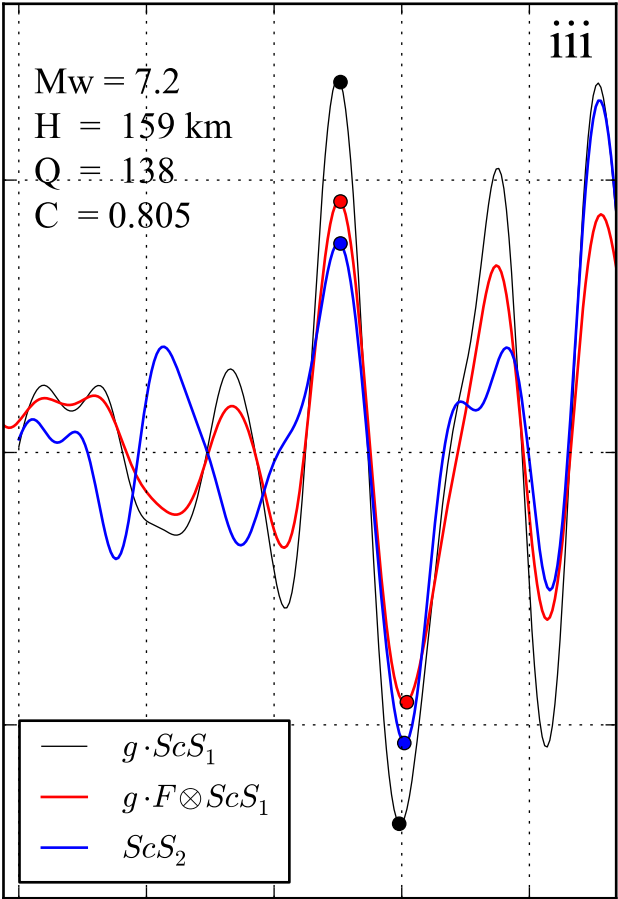
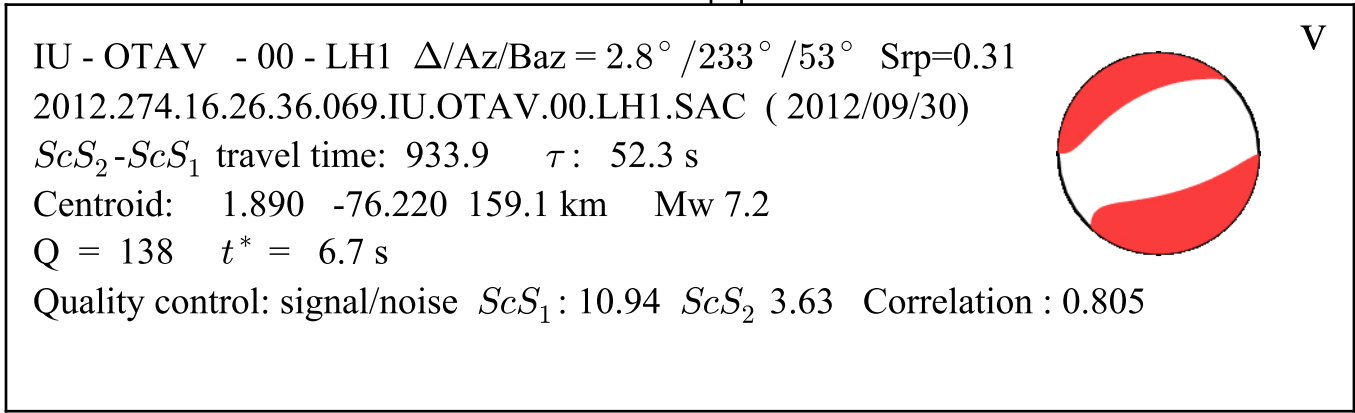
$Q = 352$ $t^* = 2.6$ s

Quality control: signal/noise ScS_1 : 12.60 ScS_2 5.29 Correlation : 0.890

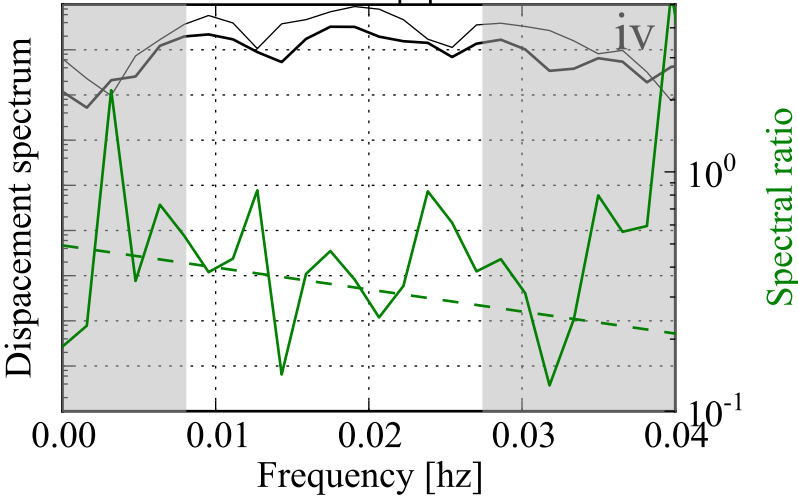


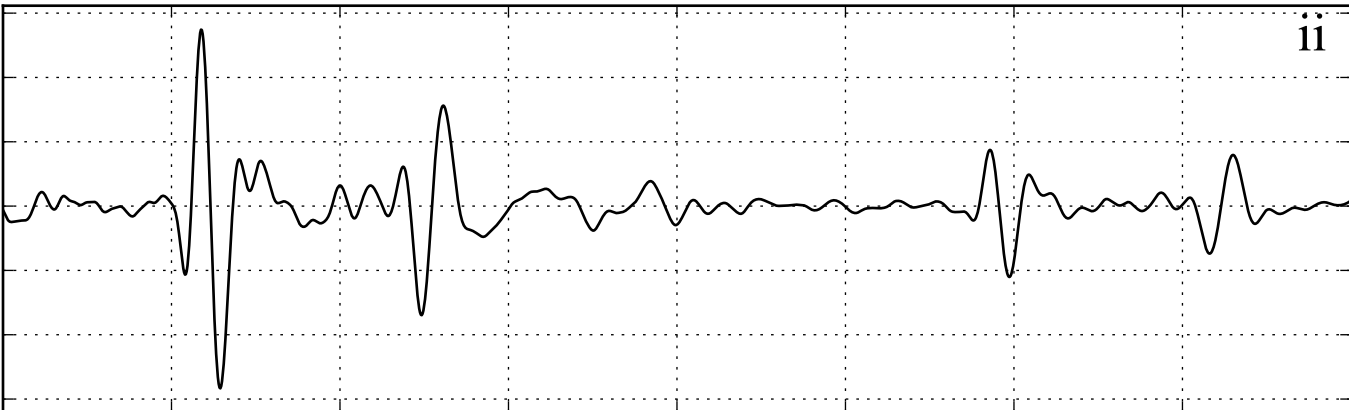
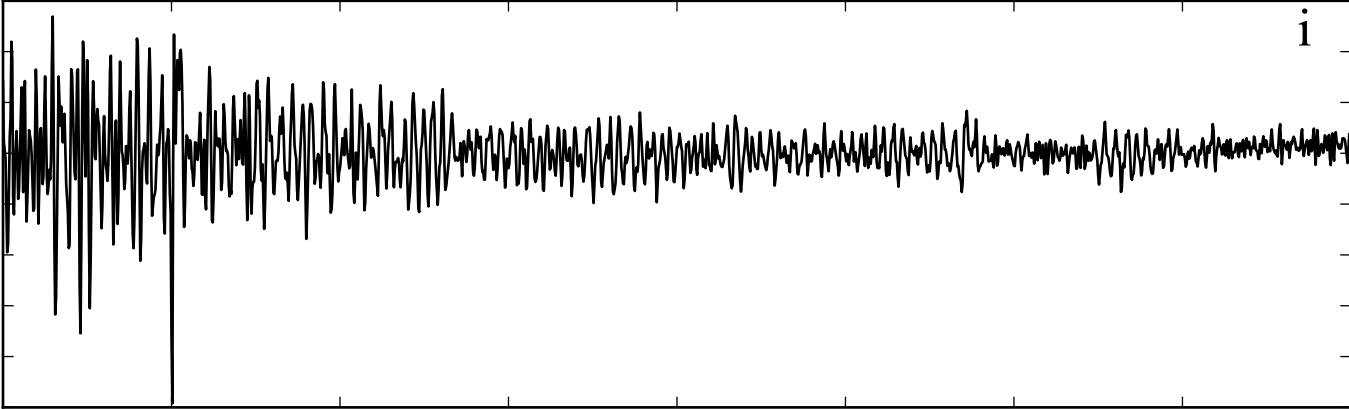


Time [s]



Time [s]





Time [s]

IU - PAB - 00 - LH2 $\Delta/Az/Baz = 2.5^\circ/348^\circ/167^\circ$ Srp=0.78

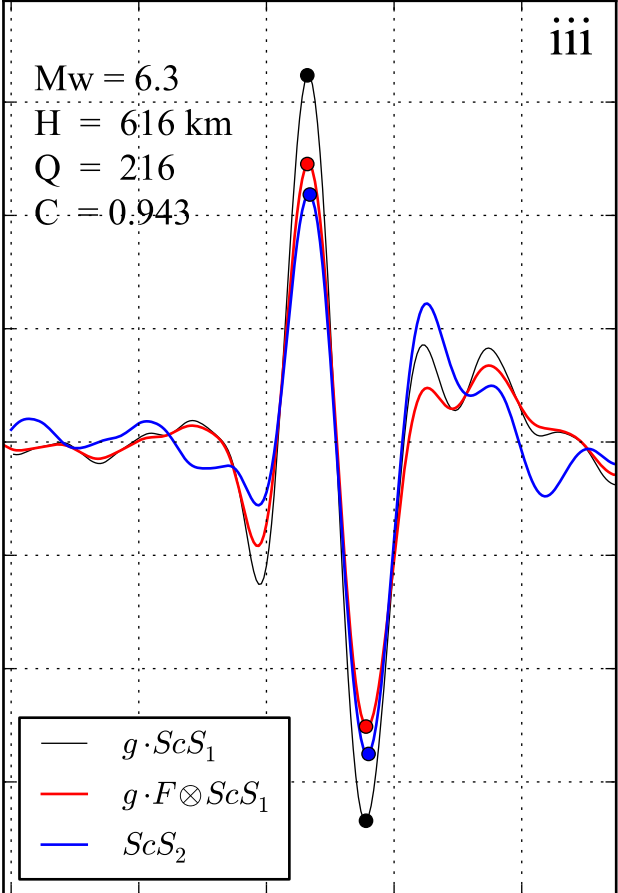
2010.101.22.03.12.069.IU.PAB.00.LH2.SAC (2010/04/11)

ScS_2 - ScS_1 travel time: 936.5 τ : 47.2 s

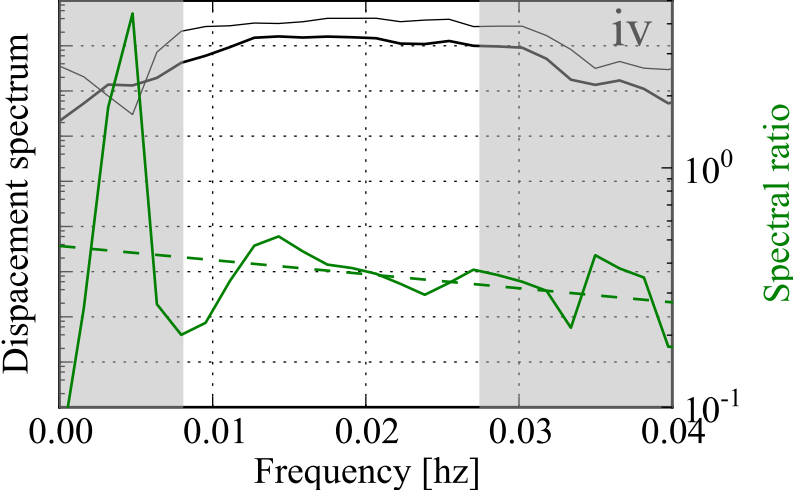
Centroid: 37.100 -3.690 616.5 km Mw 6.3

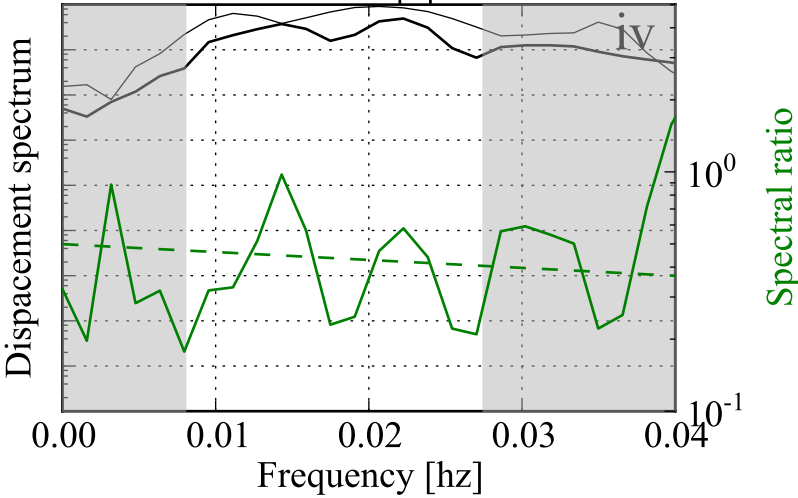
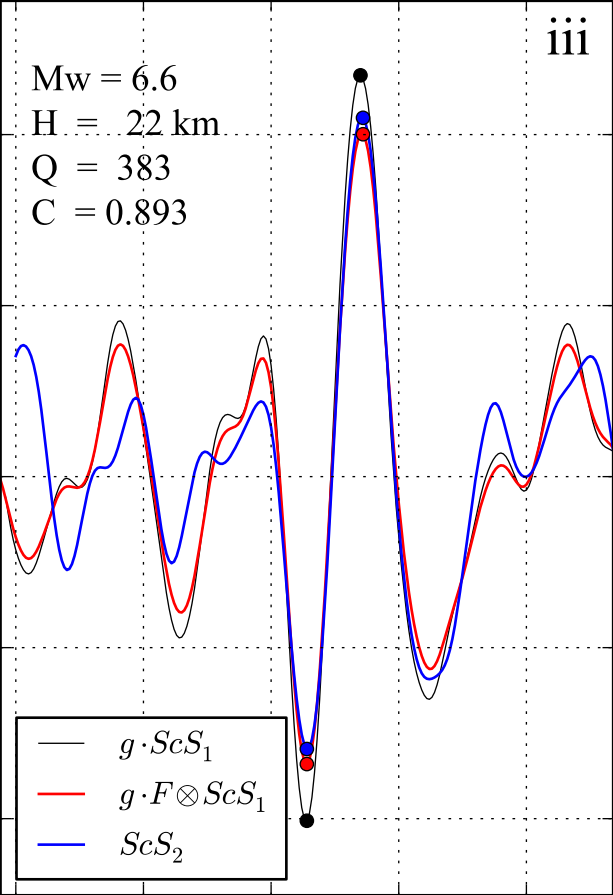
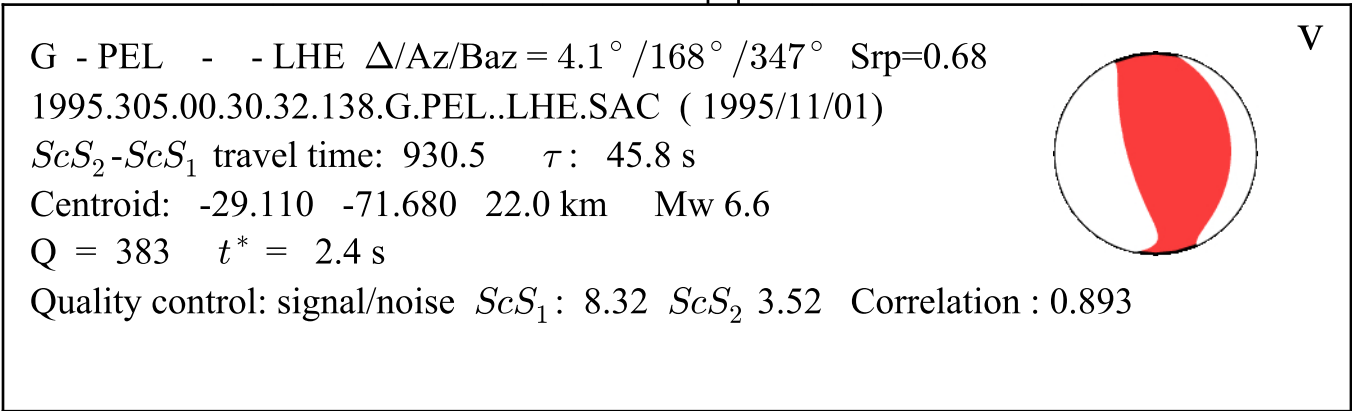
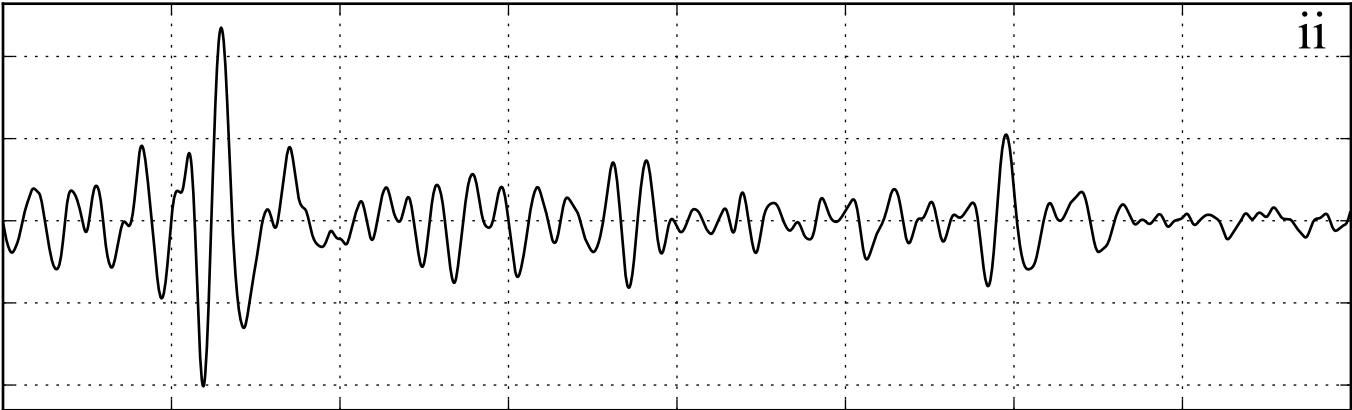
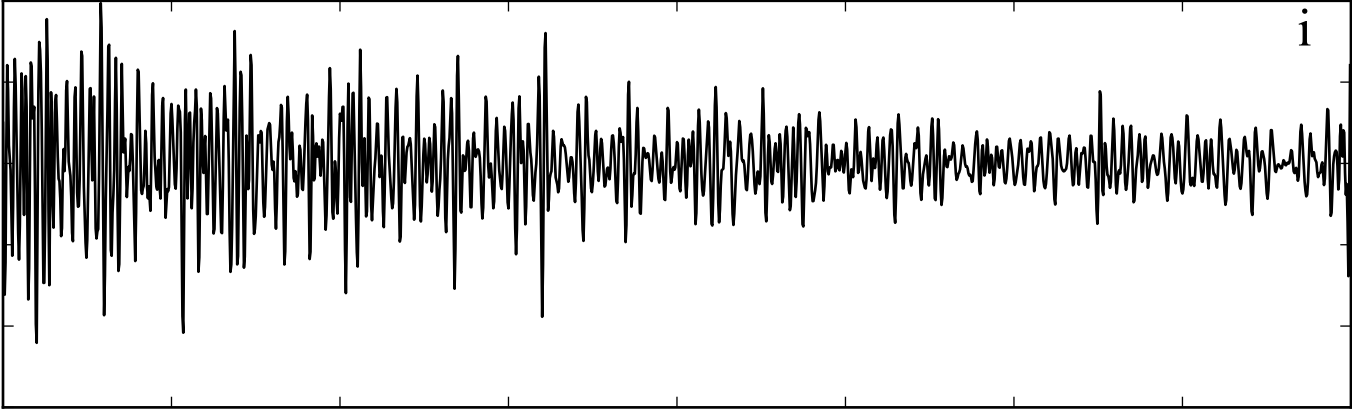
$Q = 216$ $t^* = 4.3$ s

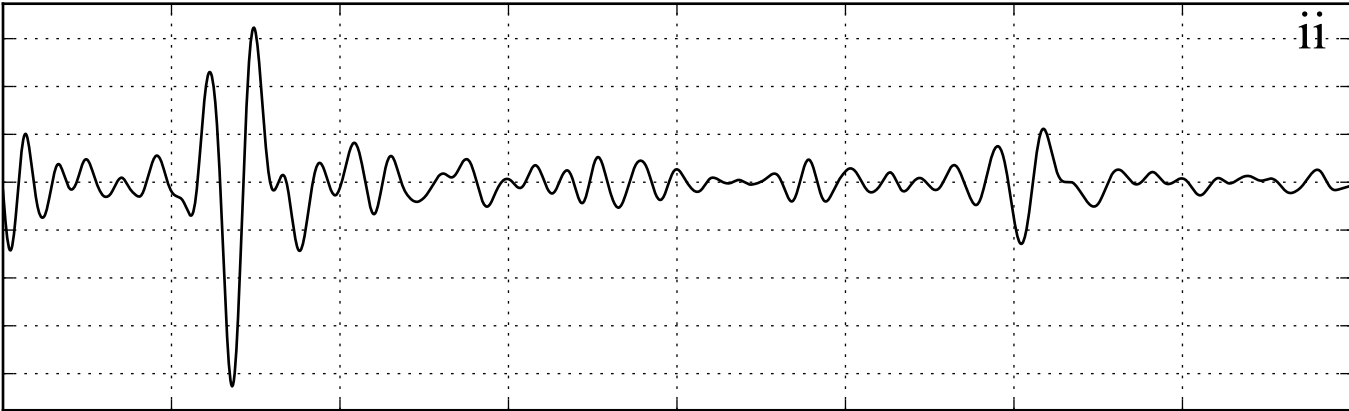
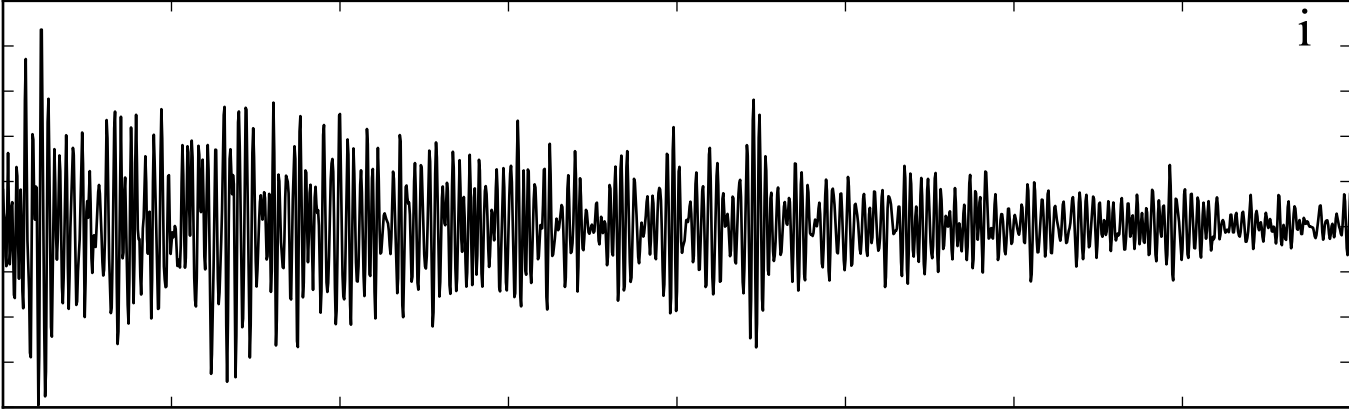
Quality control: signal/noise ScS_1 : 28.28 ScS_2 10.01 Correlation : 0.943



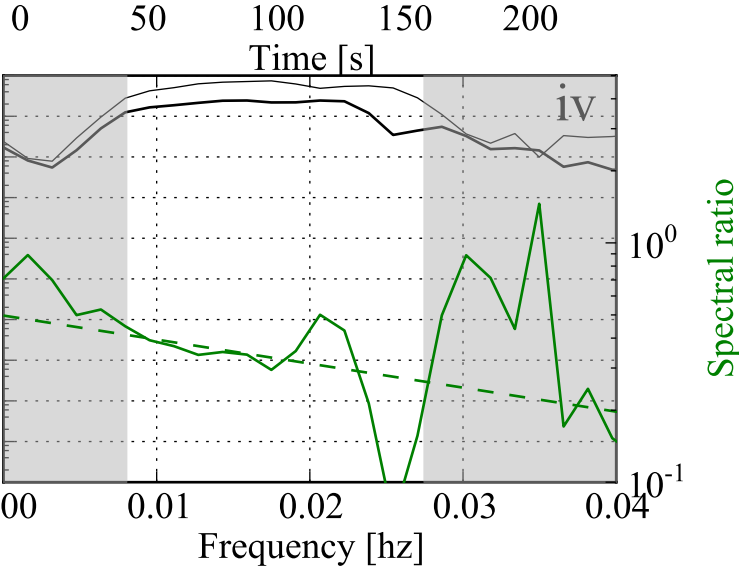
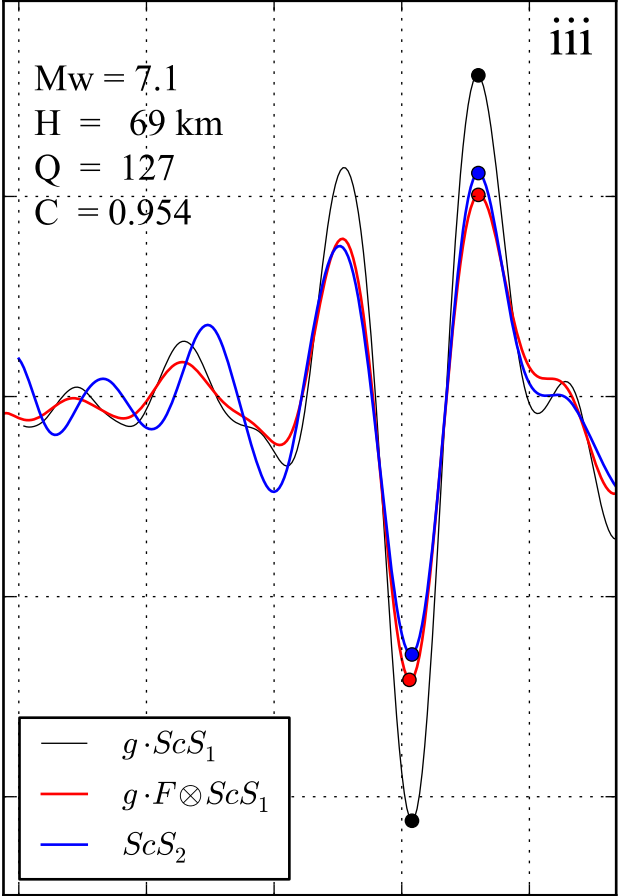
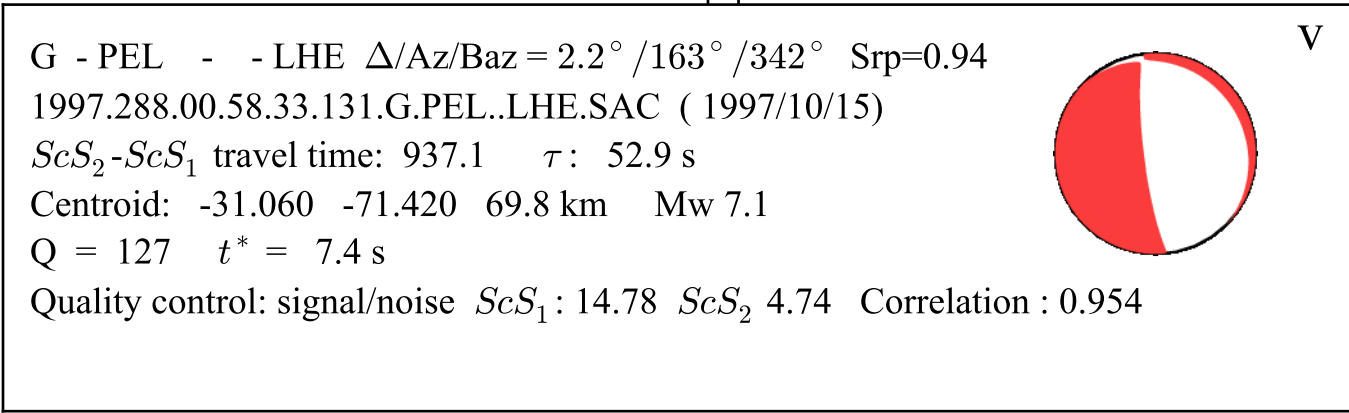
Time [s]

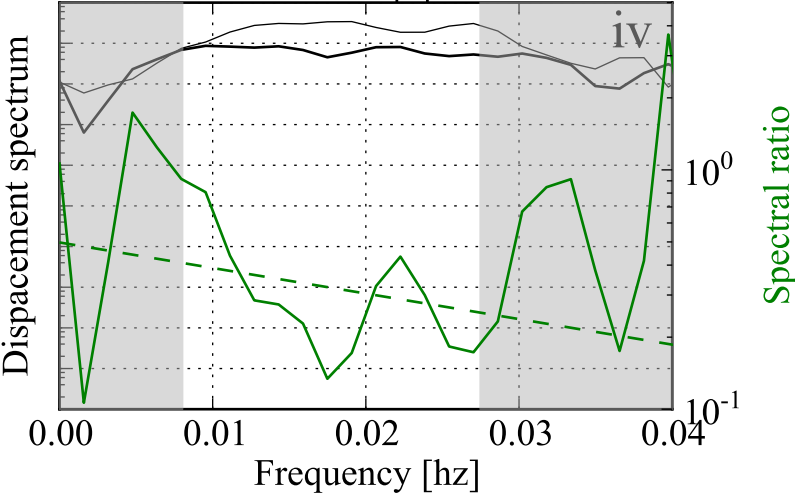
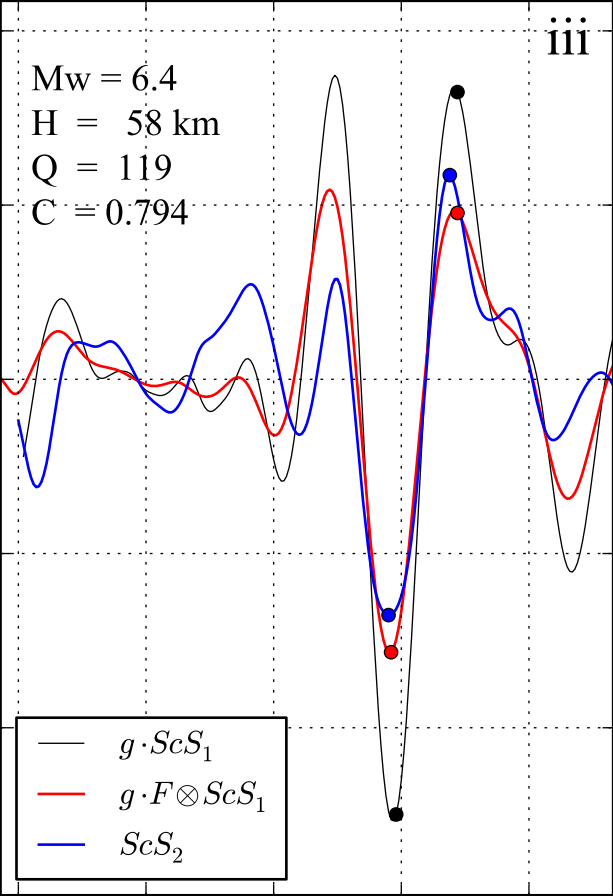
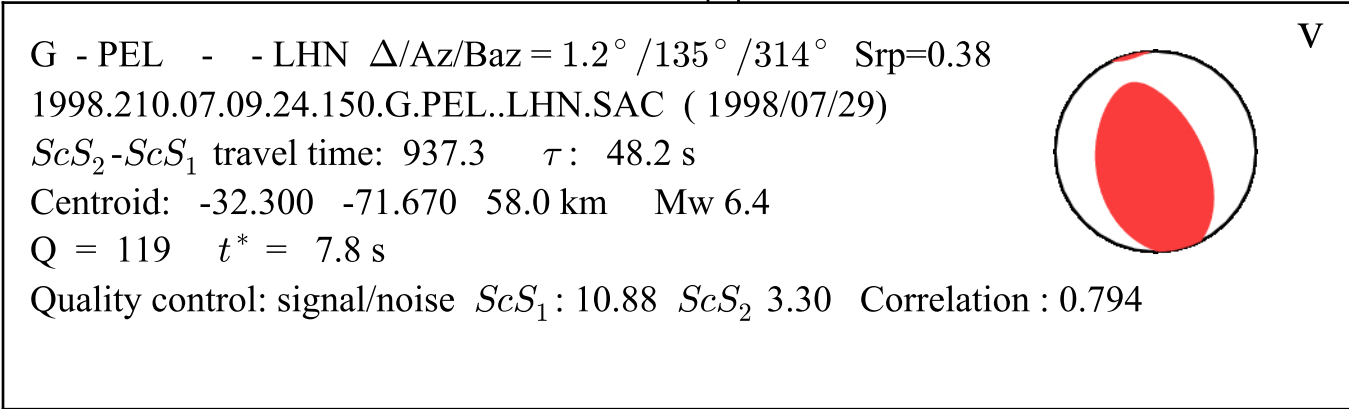
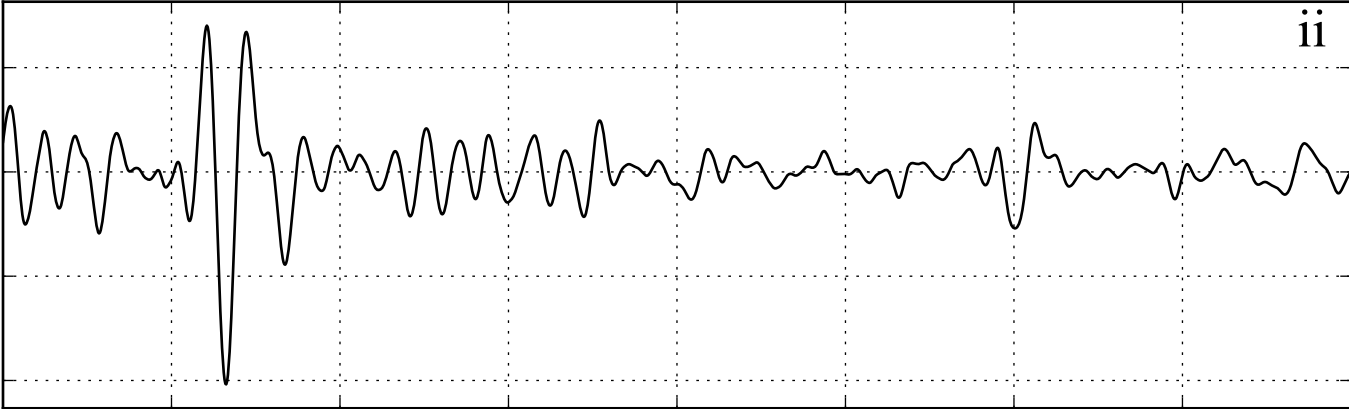
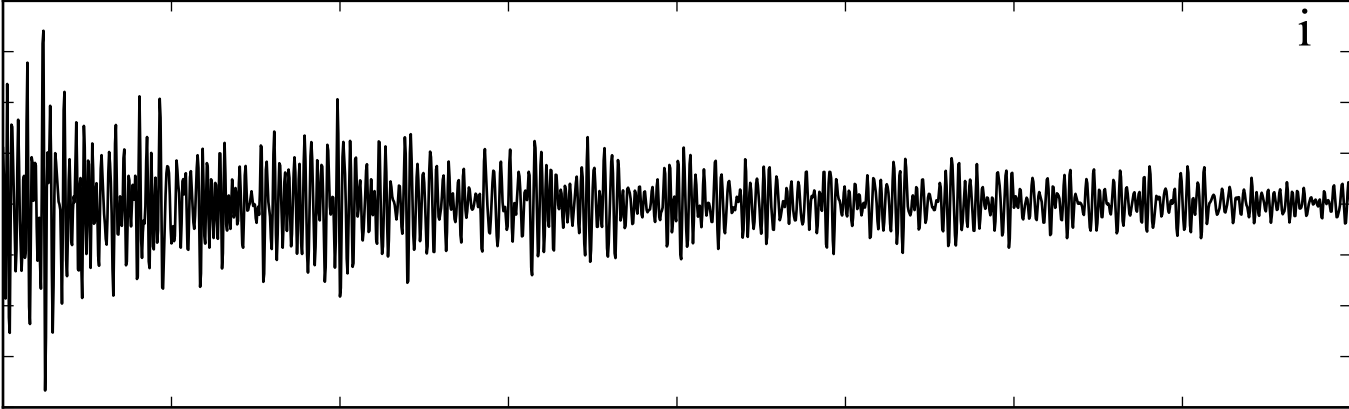


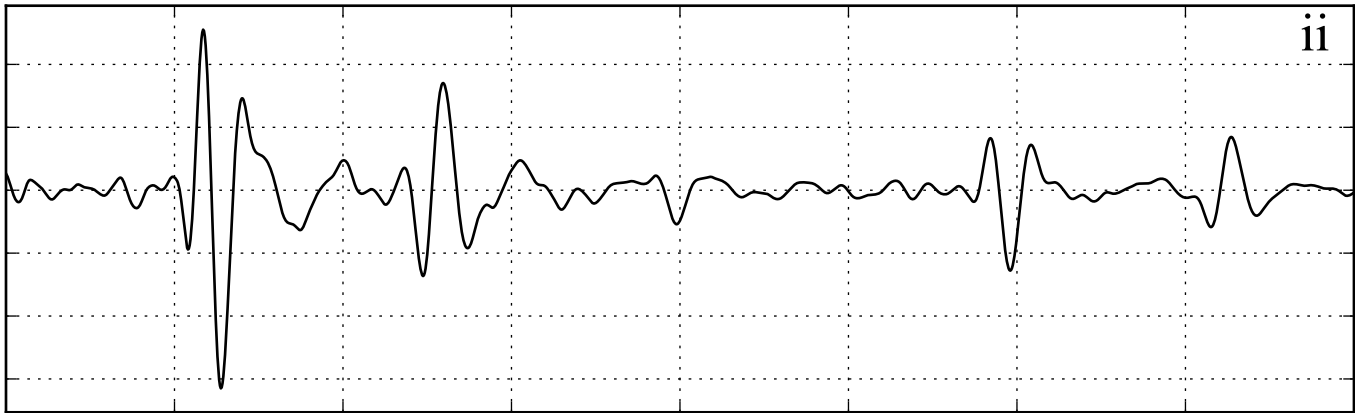
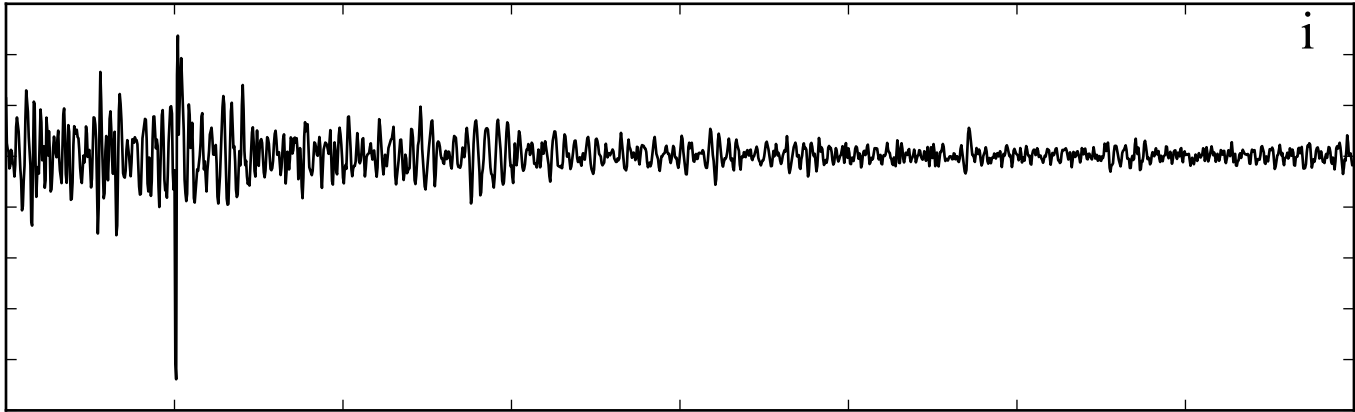




Time [s]






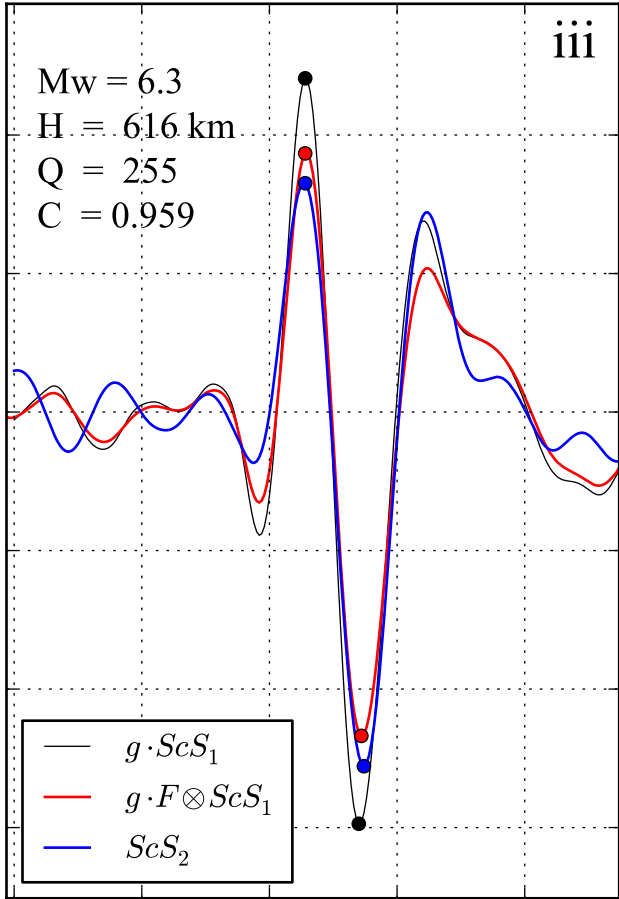


Time [s]

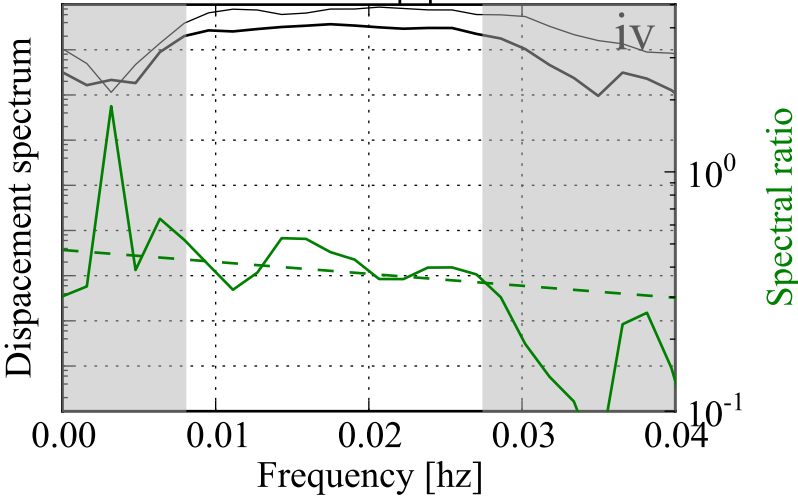
PM - PESTR - - LHE $\Delta/Az/Baz = 3.6^\circ/300^\circ/118^\circ$ $Srp=0.78$
2010.101.22.03.12.150.PM.PESTR..LHE.SAC (2010/04/11)
 ScS_2 - ScS_1 travel time: 935.1 τ : 46.7 s
Centroid: 37.100 -3.690 616.5 km Mw 6.3
 $Q = 255$ $t^* = 3.7$ s
Quality control: signal/noise ScS_1 : 17.04 ScS_2 6.29 Correlation : 0.959

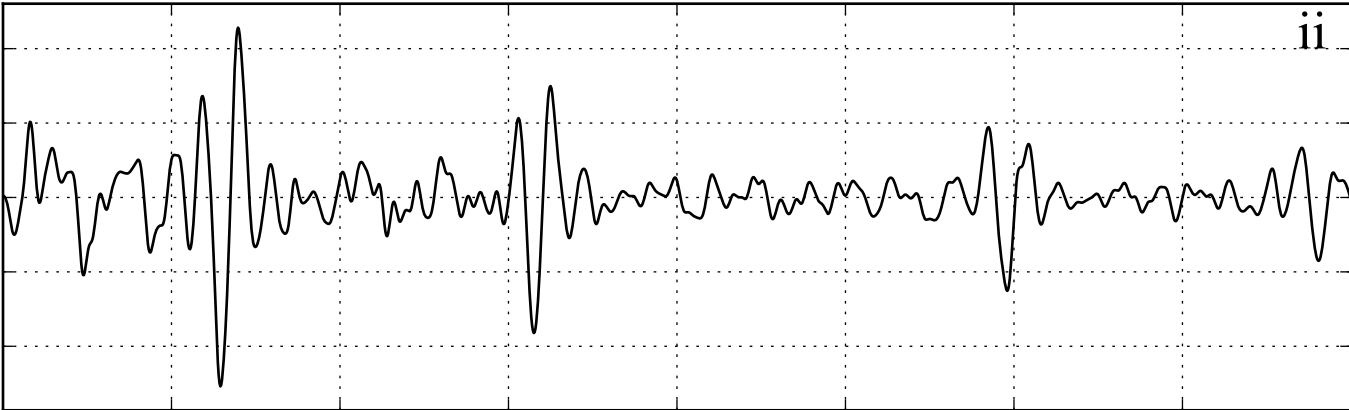
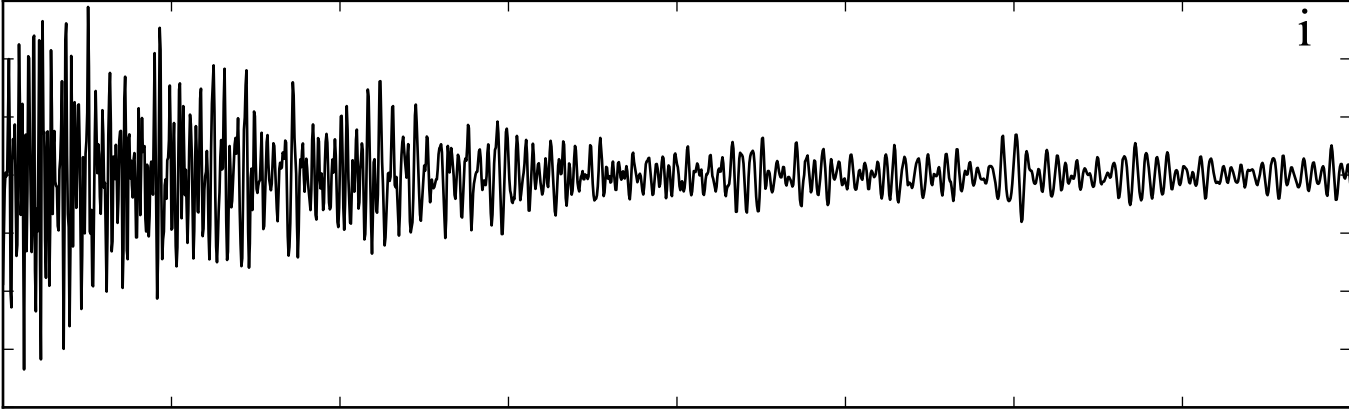


v



Time [s]





Time [s]

IU - PET - 00 - LHE $\Delta/Az/Baz = 1.2^\circ/291^\circ/109^\circ$ $Srp=0.75$

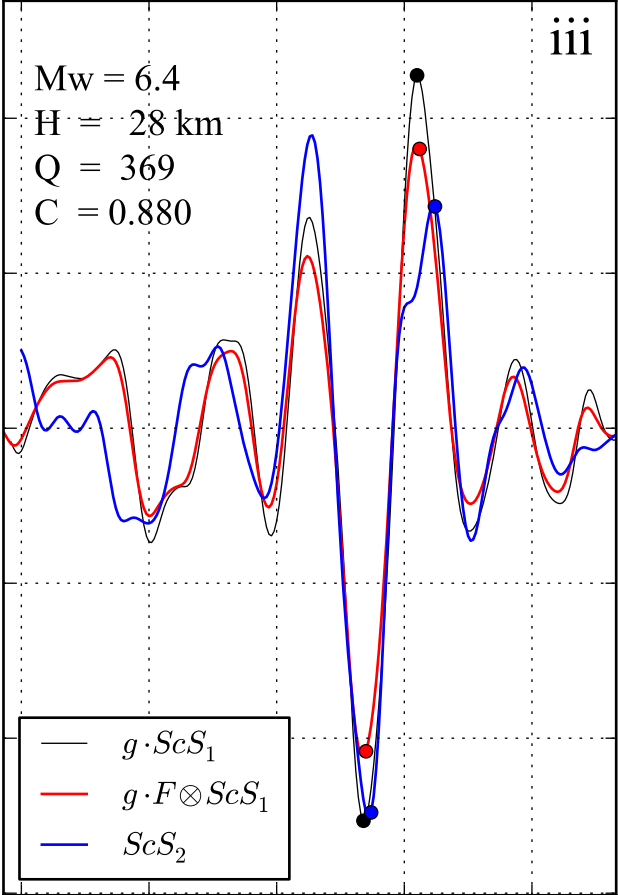
2001.281.18.09.26.386.IU.PET.00.LHE.SAC (2001/10/08)

ScS_2 - ScS_1 travel time: 932.7 τ : 42.2 s

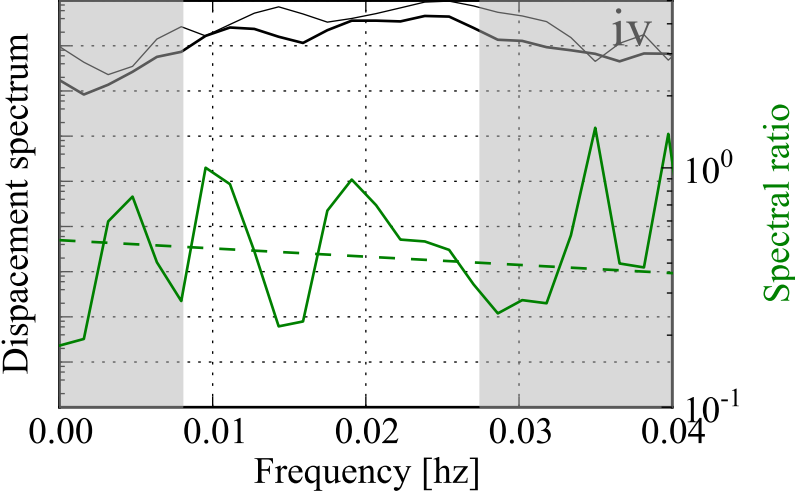
Centroid: 52.590 160.560 28.0 km Mw 6.4

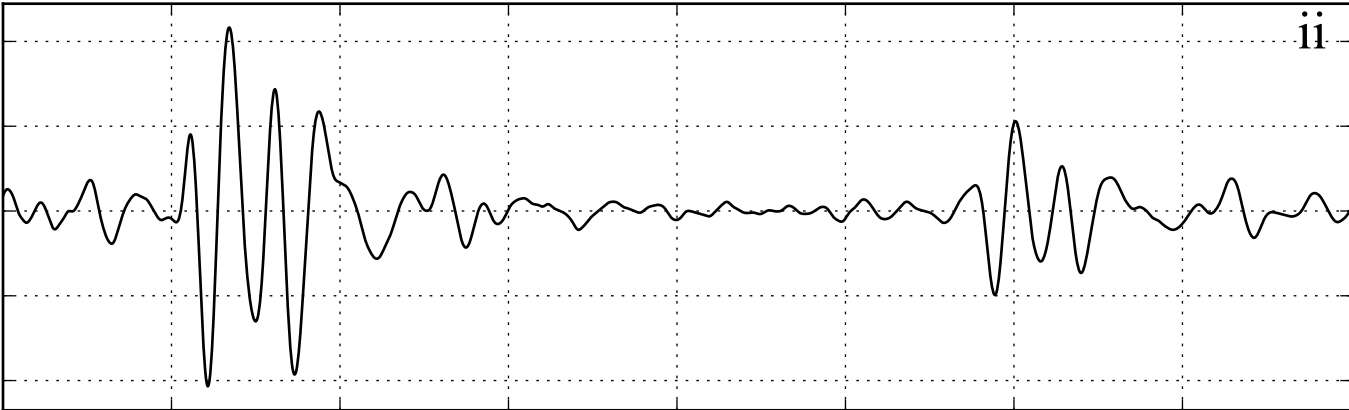
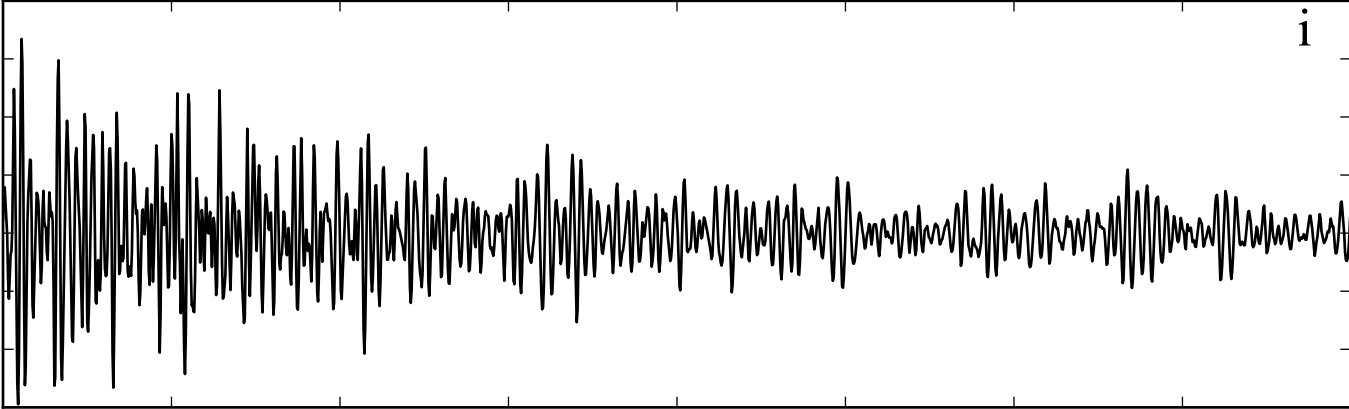
$Q = 369$ $t^* = 2.5$ s

Quality control: signal/noise ScS_1 : 10.51 ScS_2 4.26 Correlation : 0.880

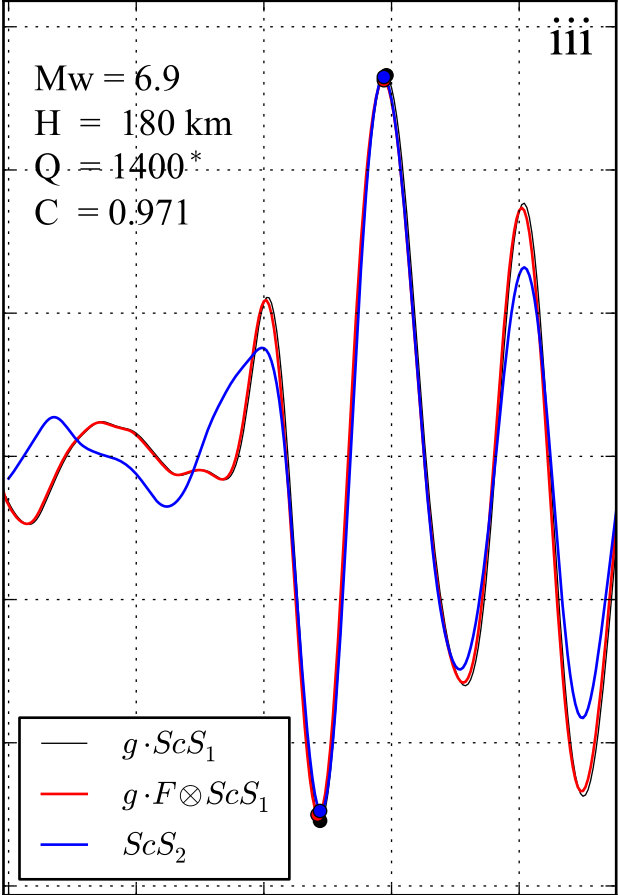
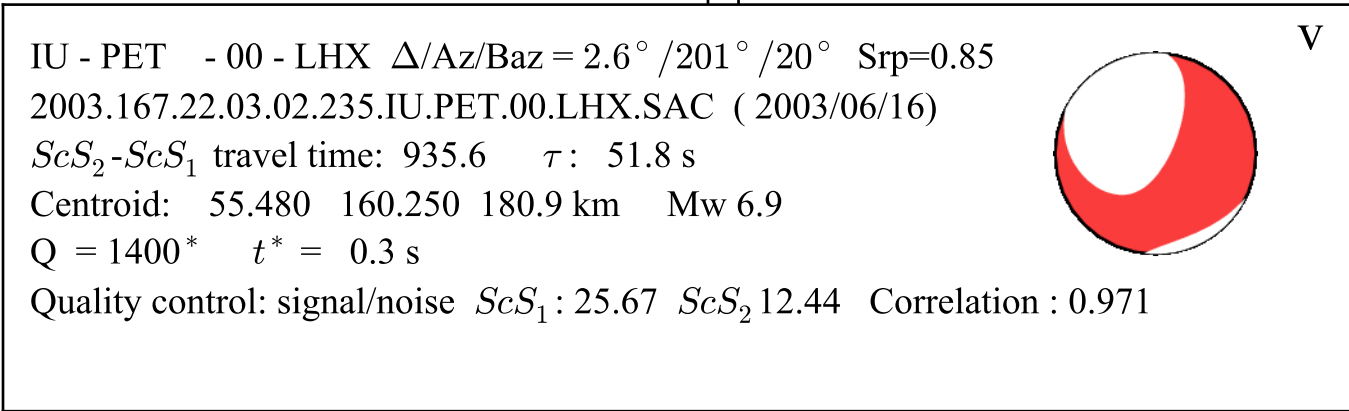


Time [s]

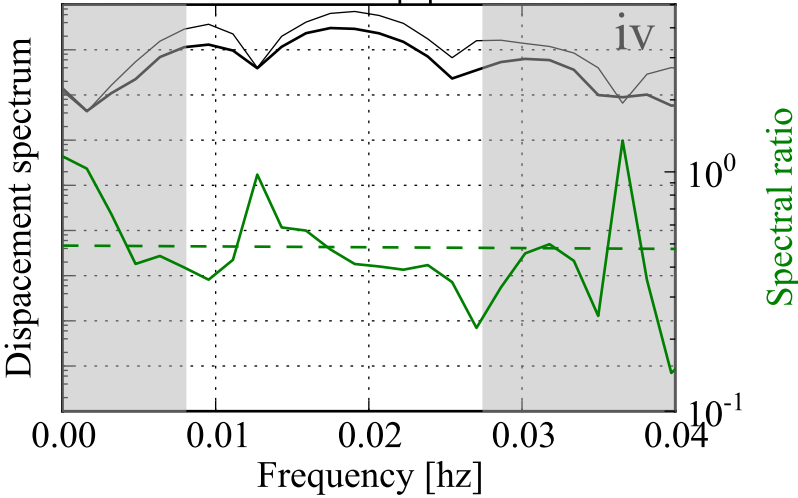


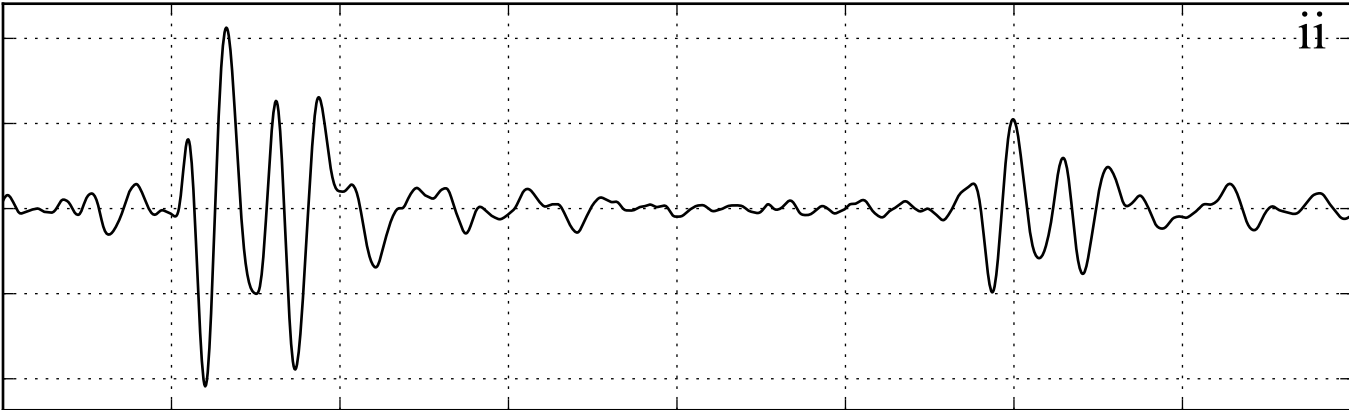
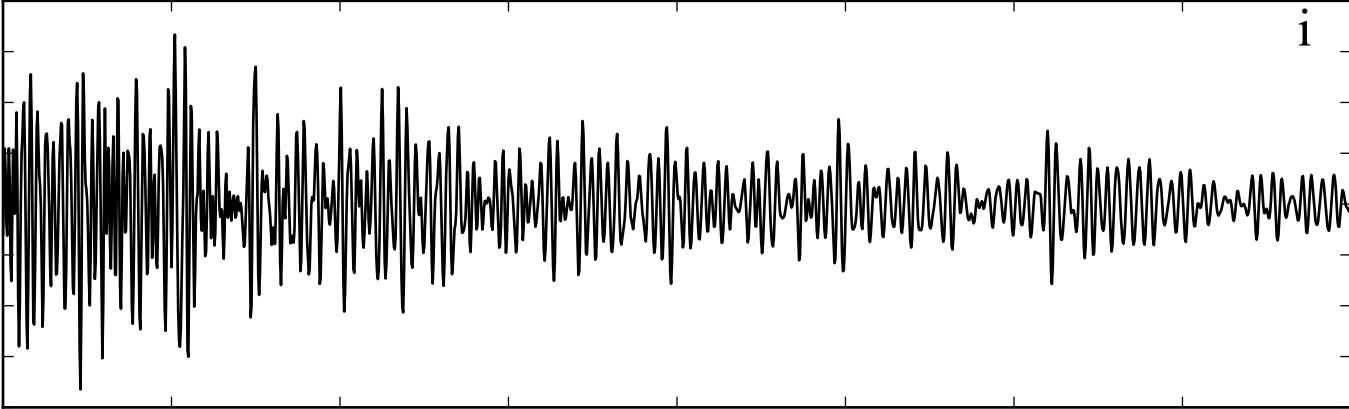


Time [s]



Time [s]





Time [s]

IU - PET - 00 - LHX $\Delta/Az/Baz = 2.9^\circ/200^\circ/18^\circ$ Srp=0.95

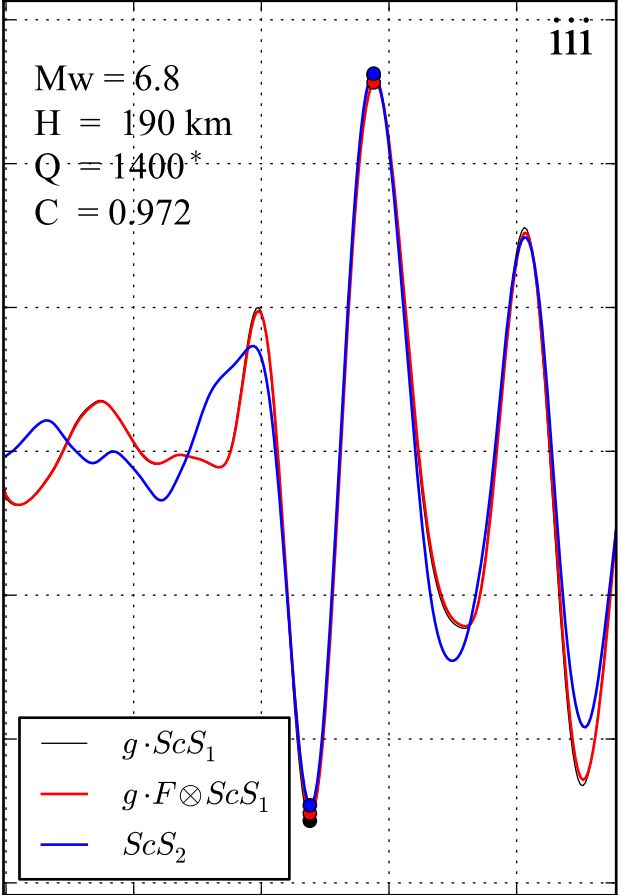
2004.162.15.14.57.235.IU.PET.00.LHX.SAC (2004/06/10)

ScS_2 - ScS_1 travel time: 935.5 τ : 52.5 s

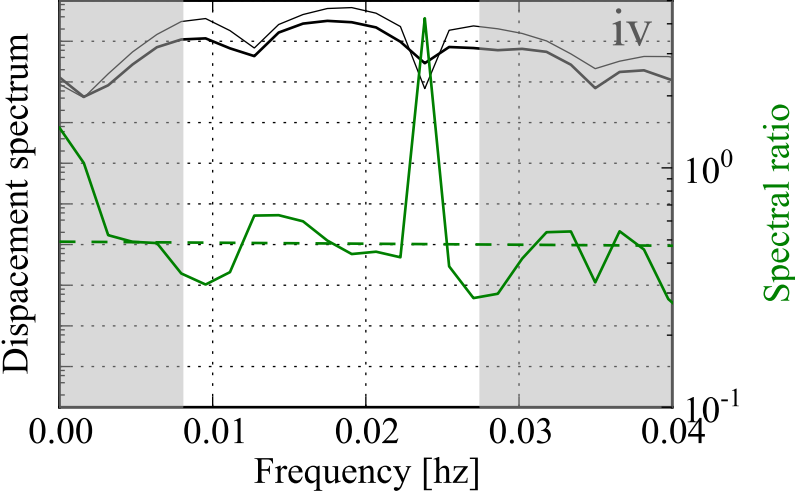
Centroid: 55.790 160.320 190.1 km Mw 6.8

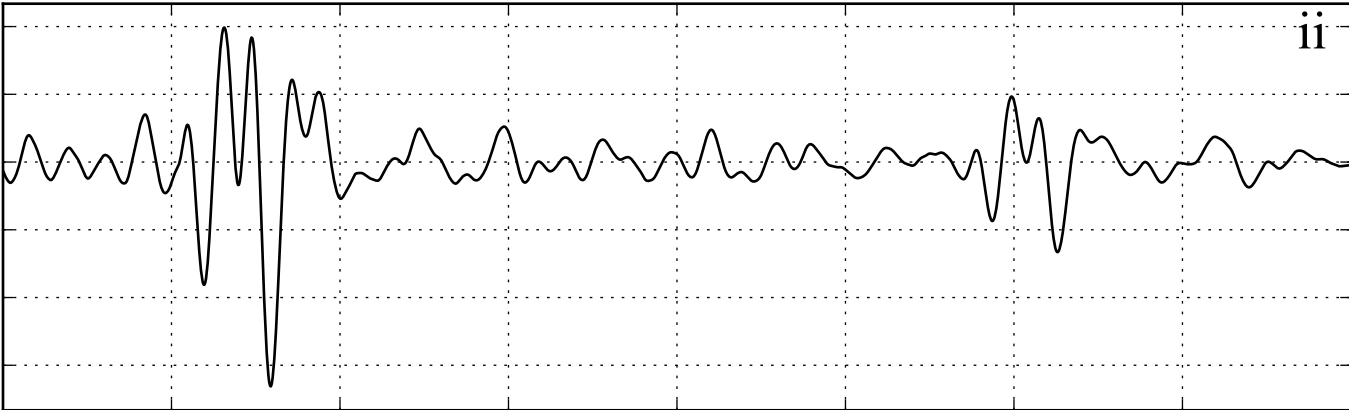
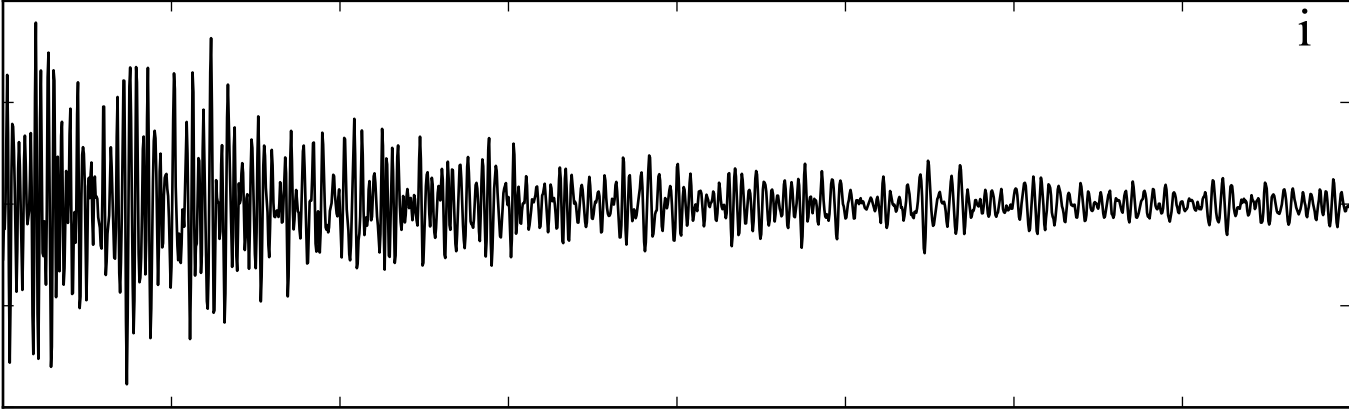
$Q = 1400^*$ $t^* = 0.3$ s

Quality control: signal/noise ScS_1 : 30.52 ScS_2 14.73 Correlation : 0.972

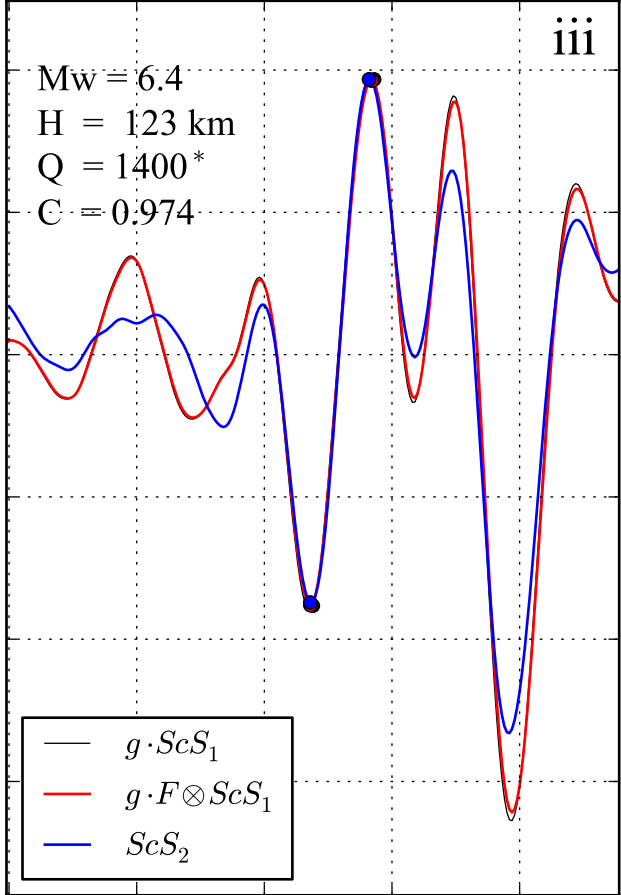
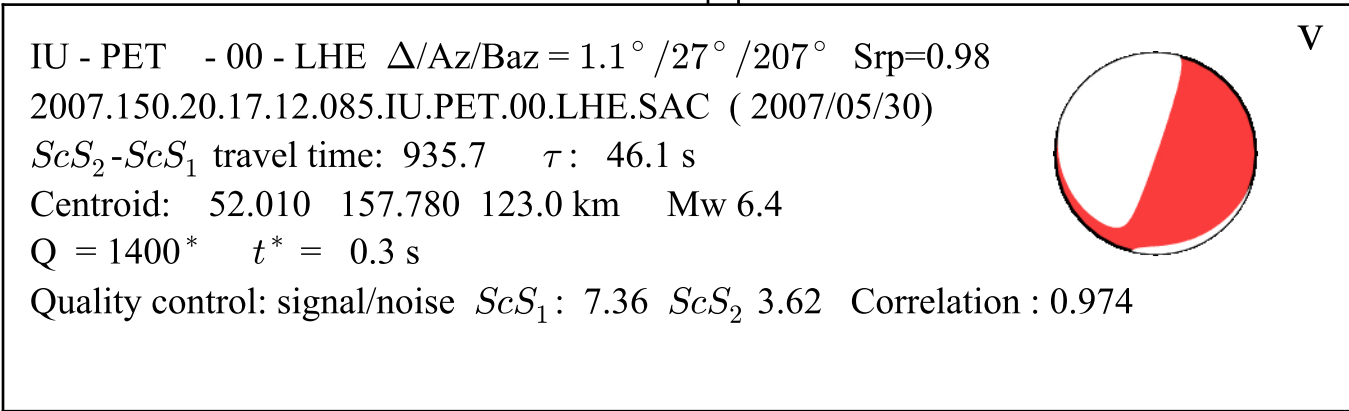


Time [s]

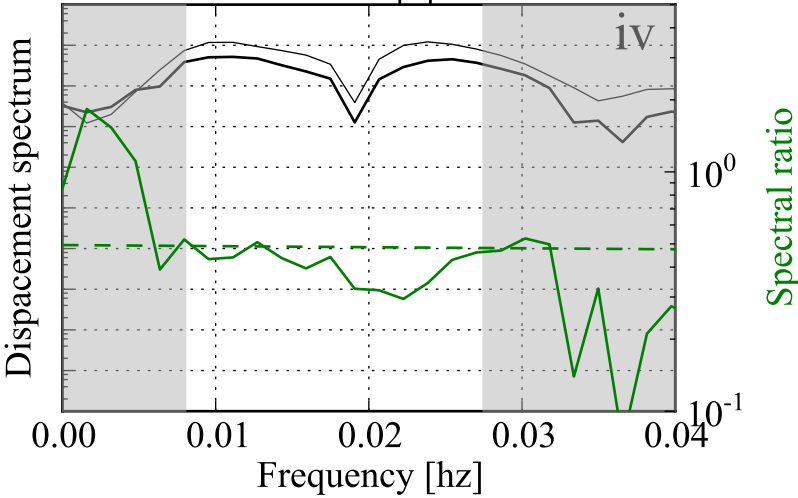


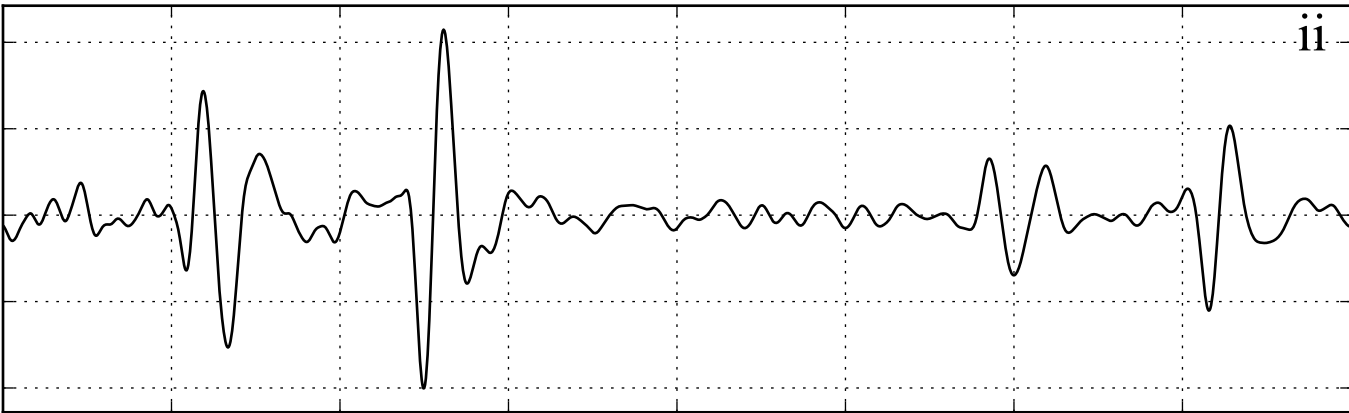
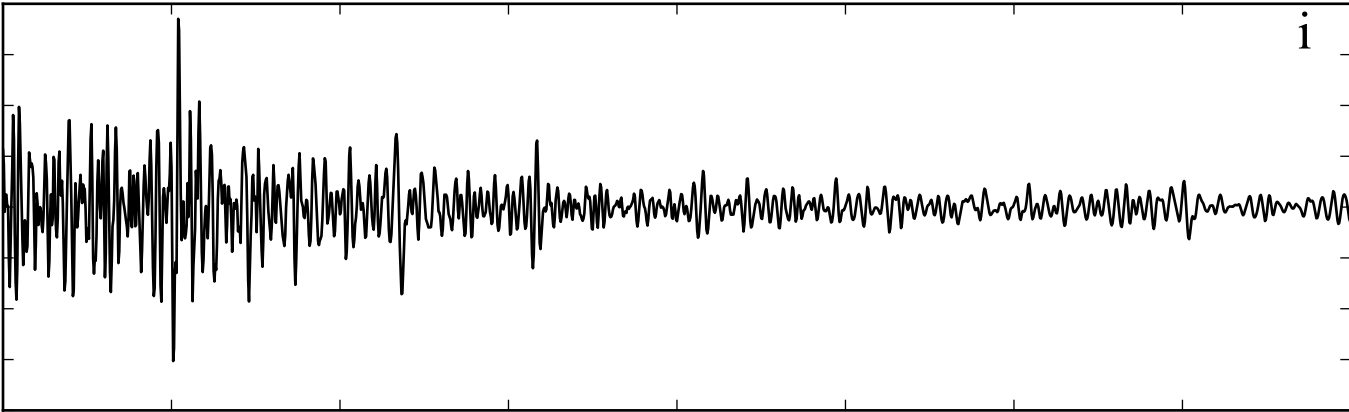


Time [s]

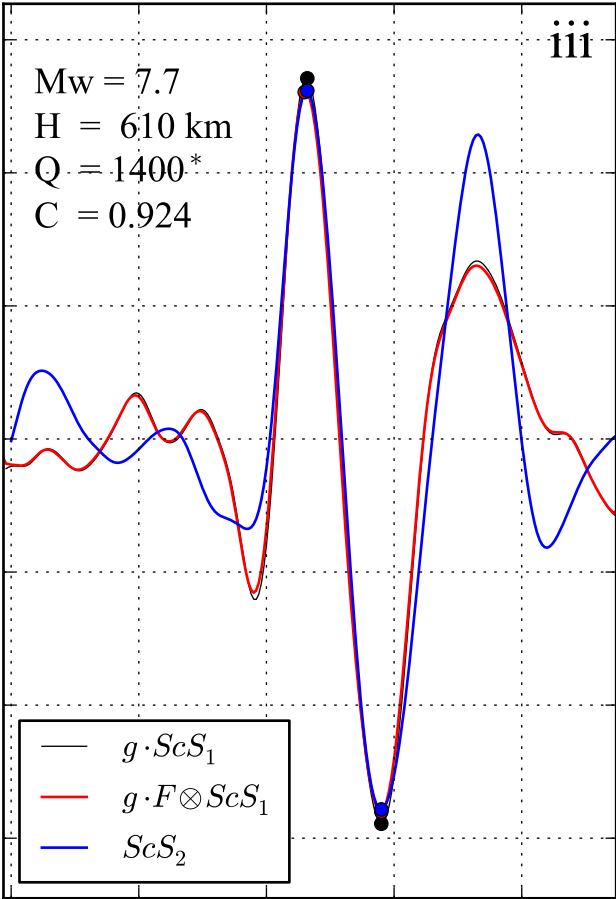
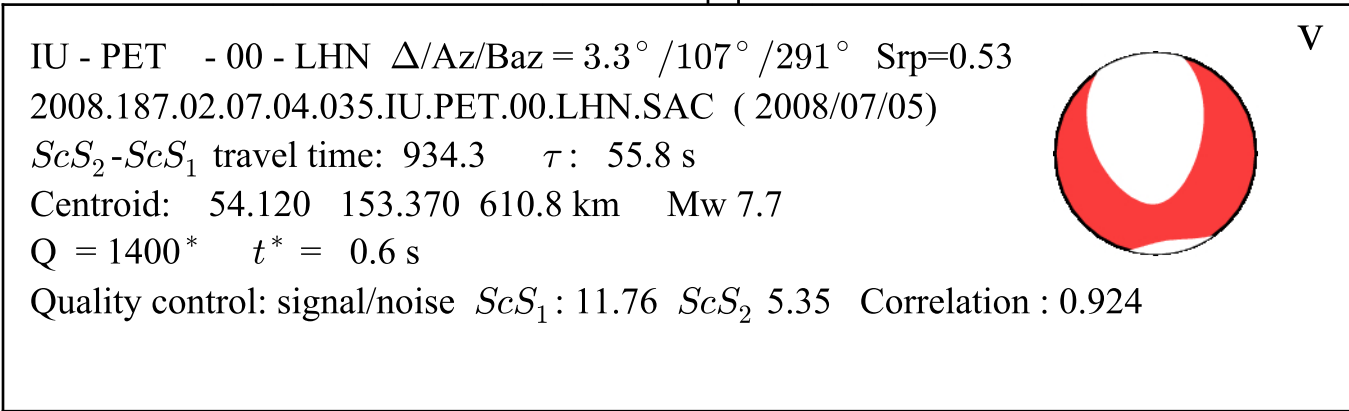


Time [s]

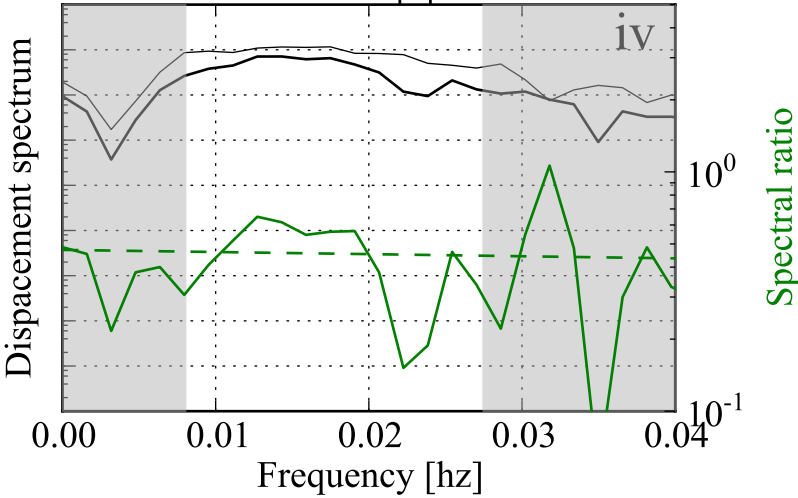


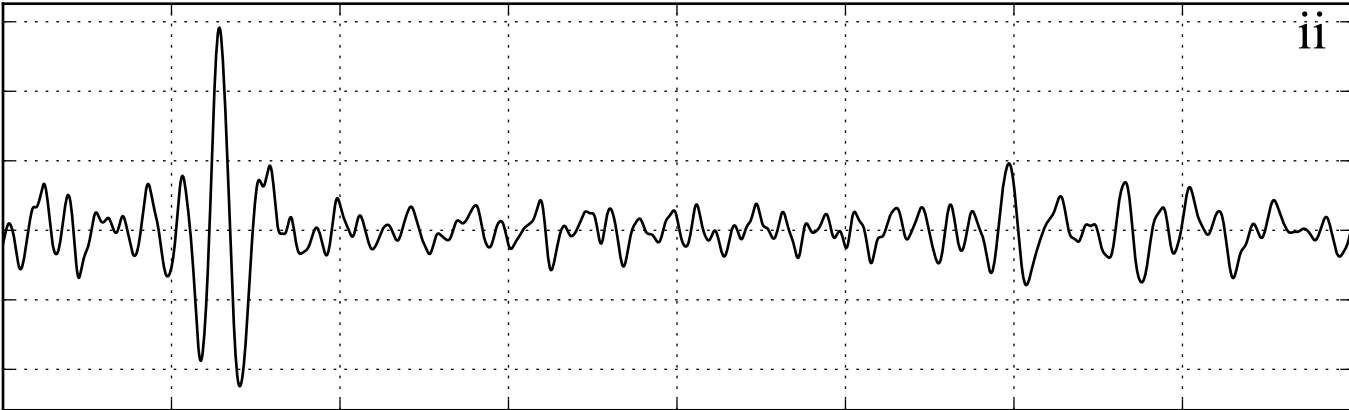
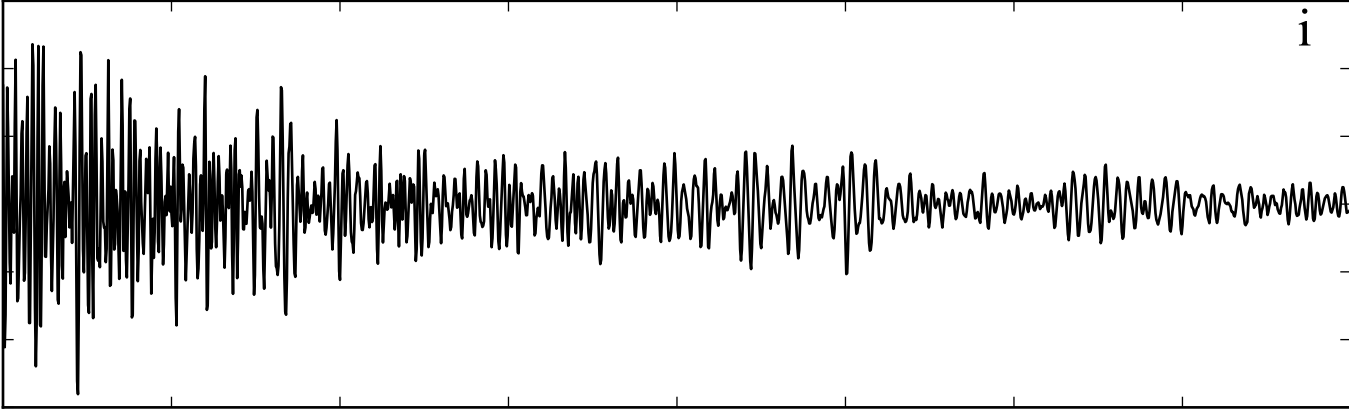


Time [s]

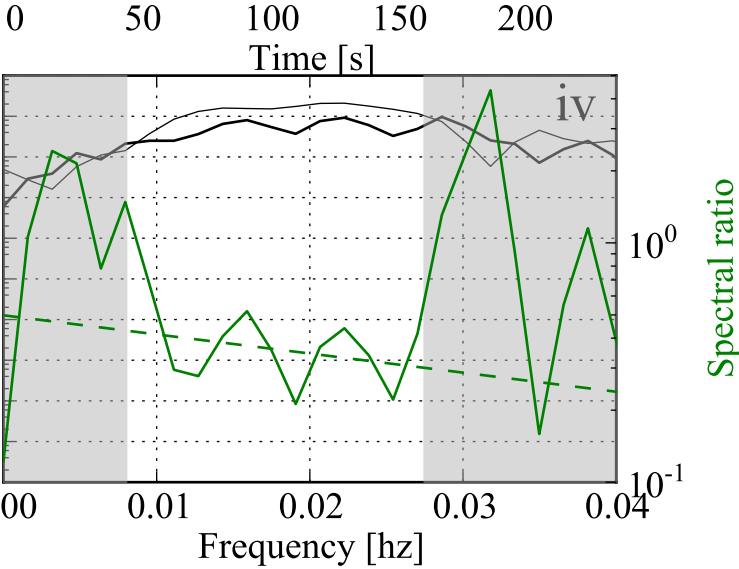
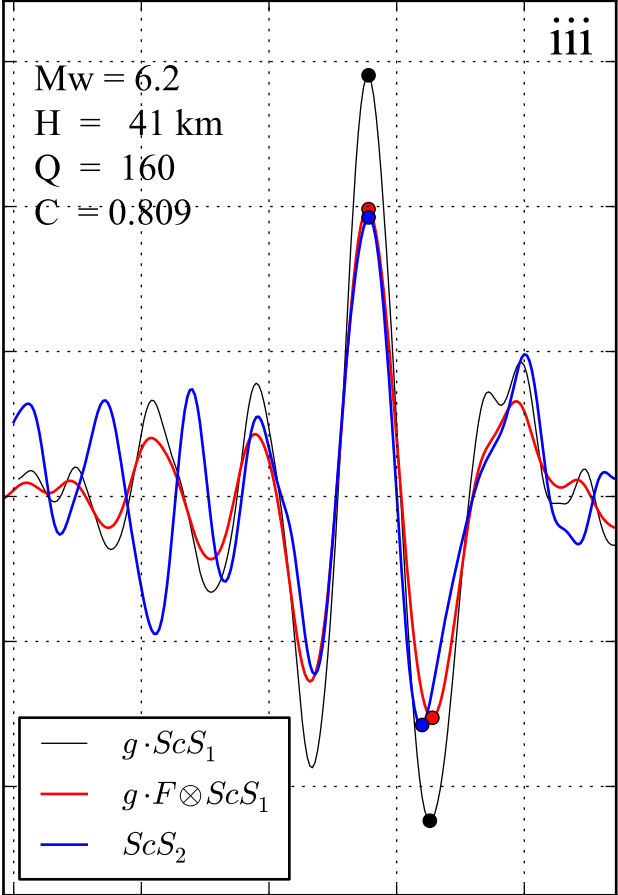
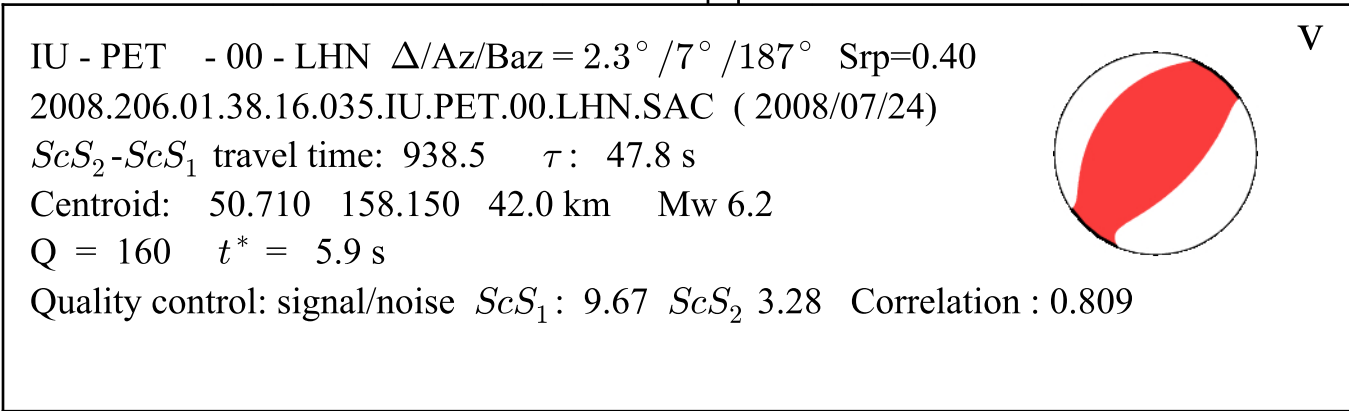


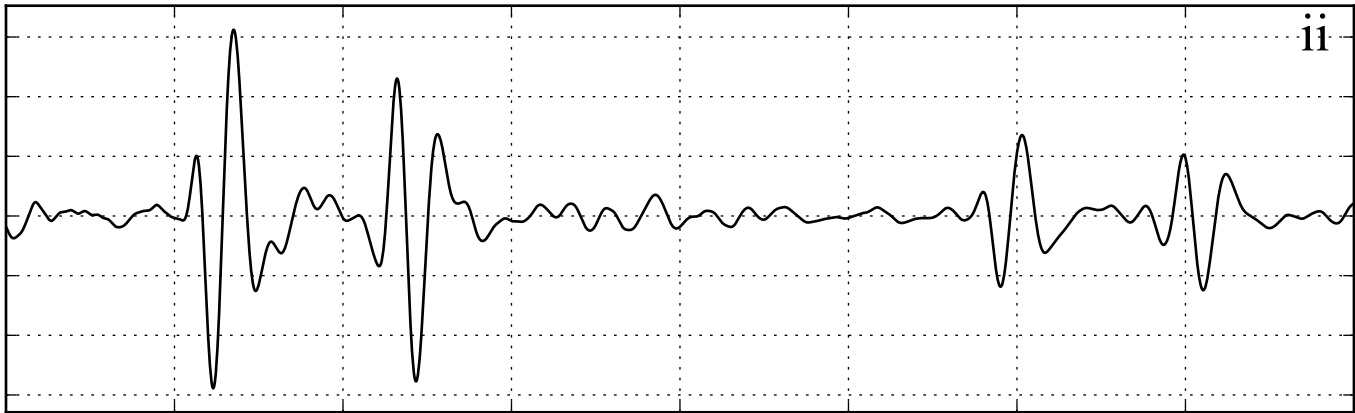
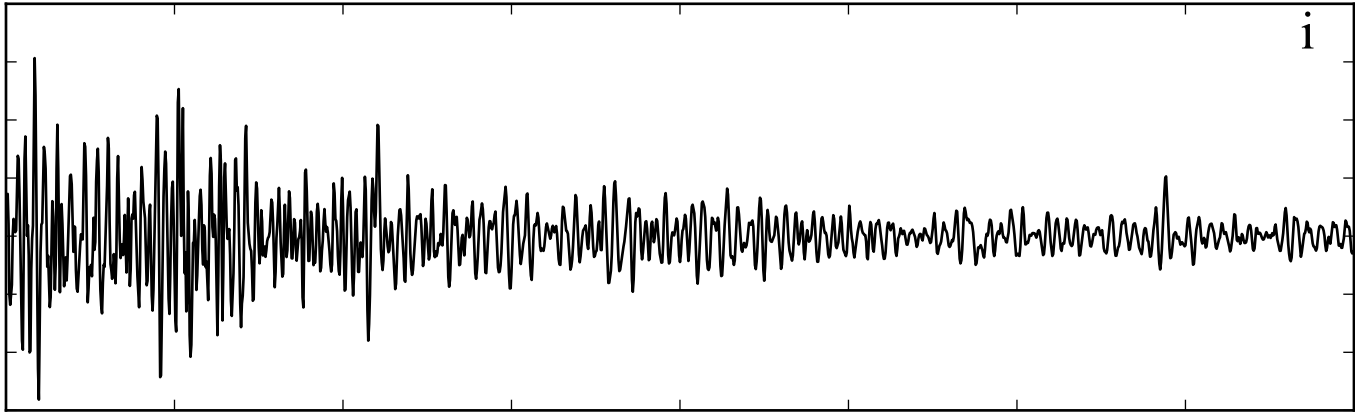
Time [s]



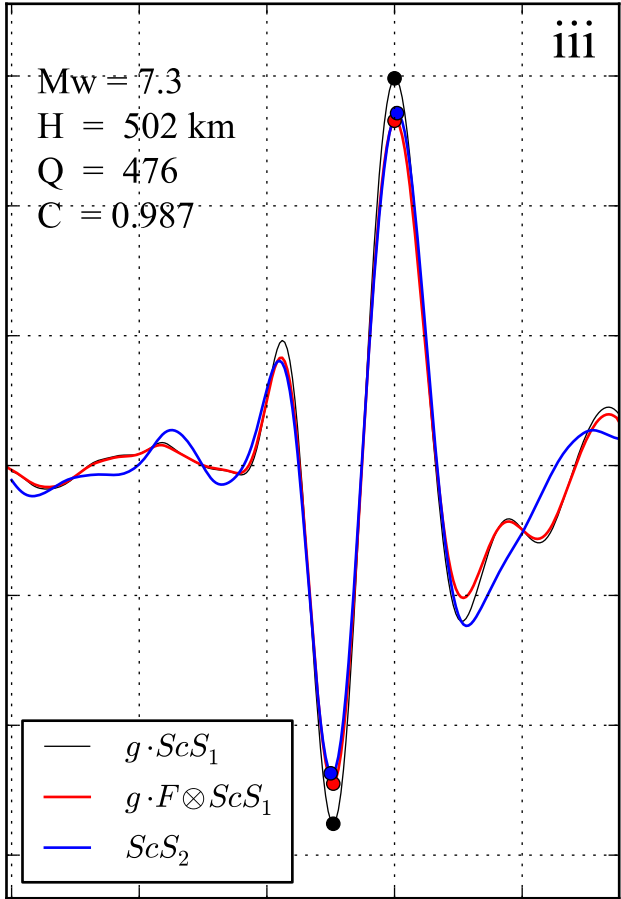
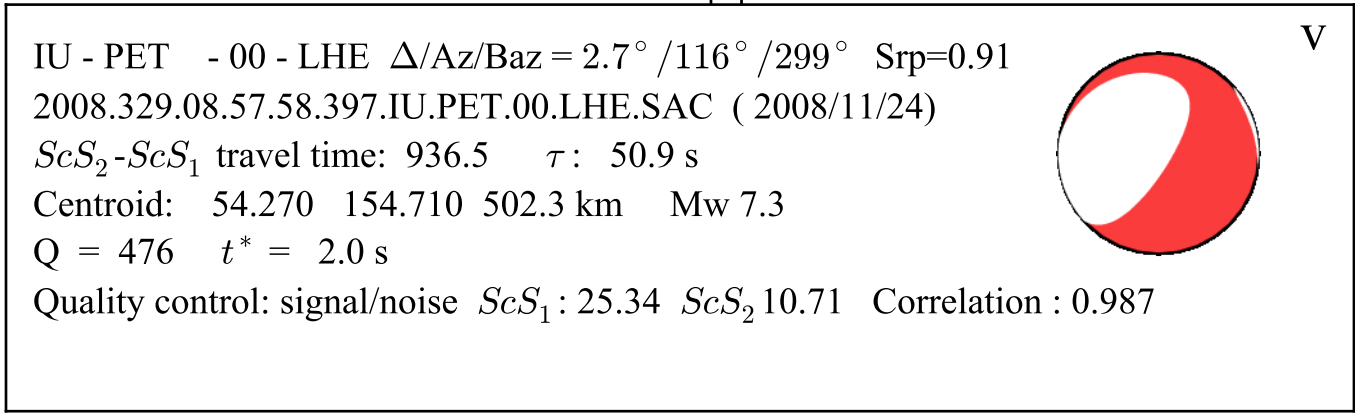


Time [s]

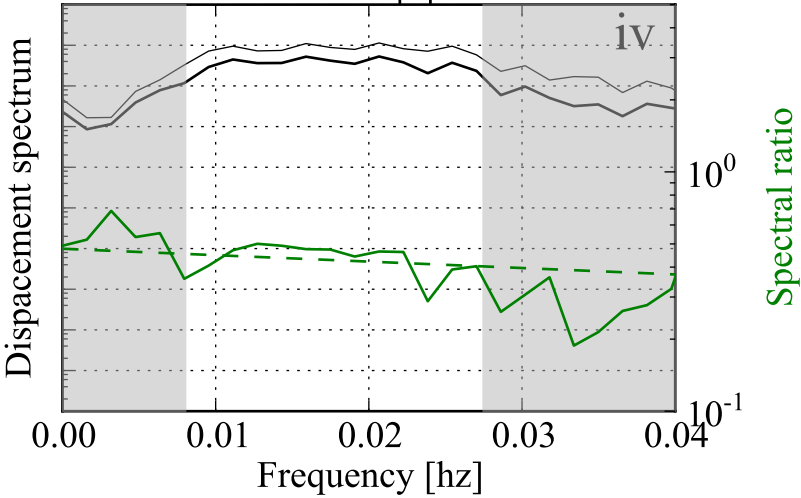


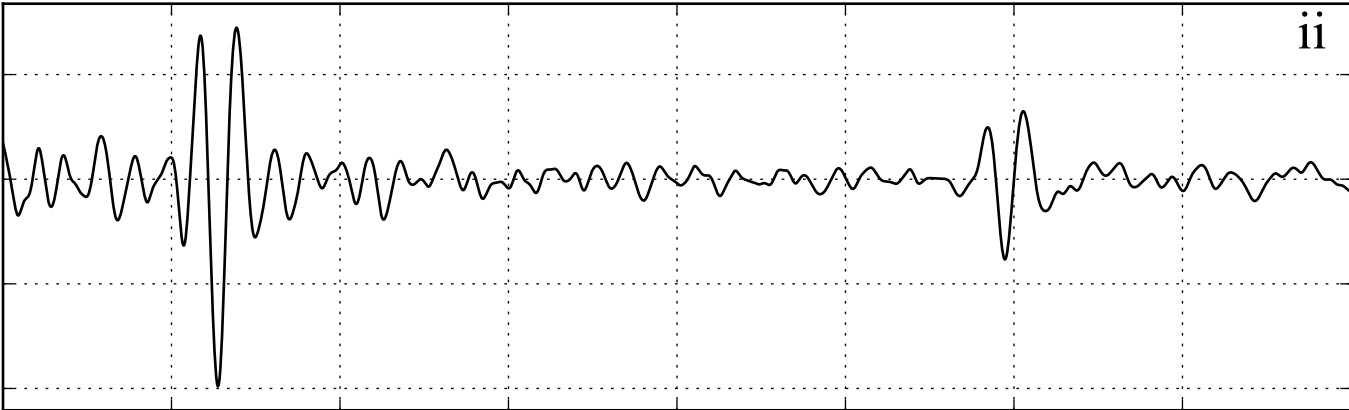
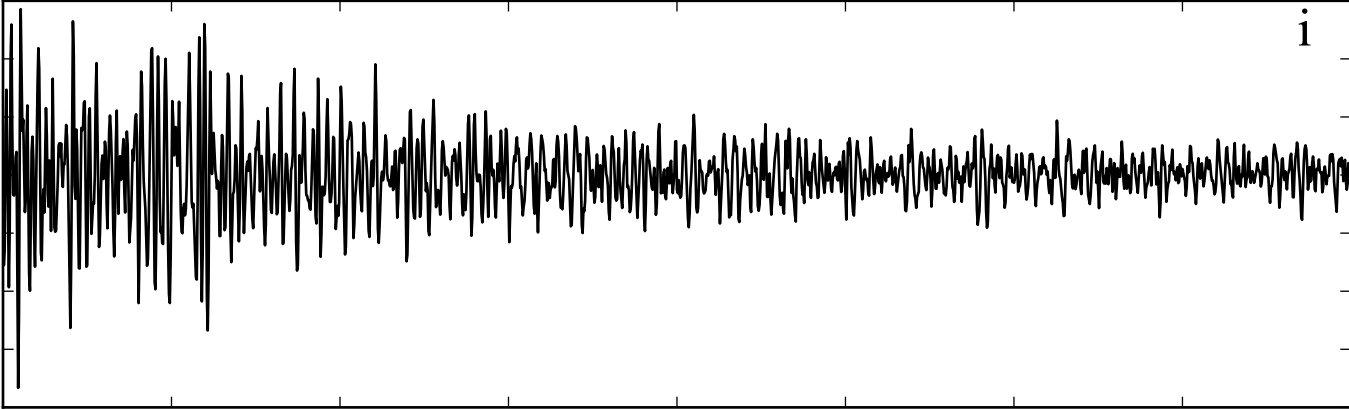


Time [s]

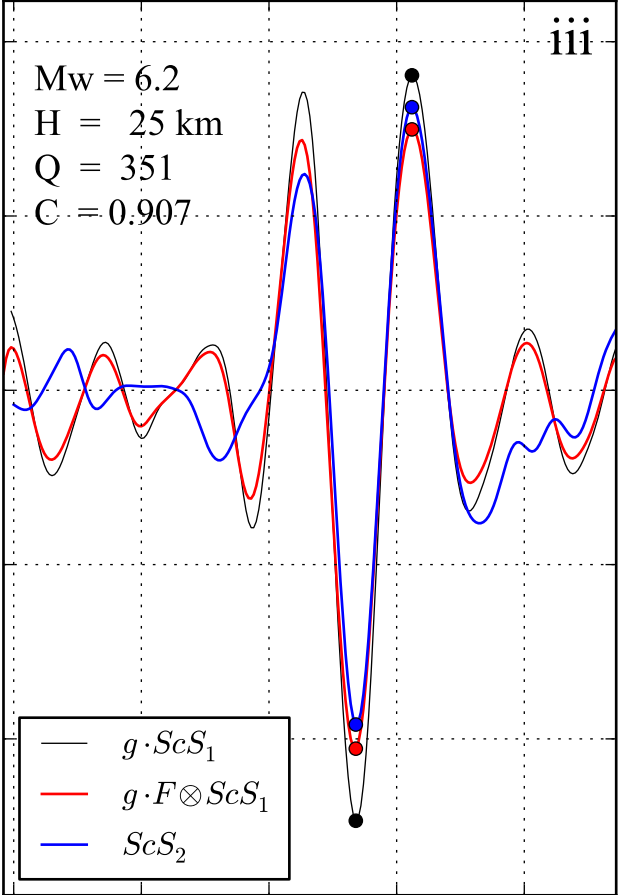
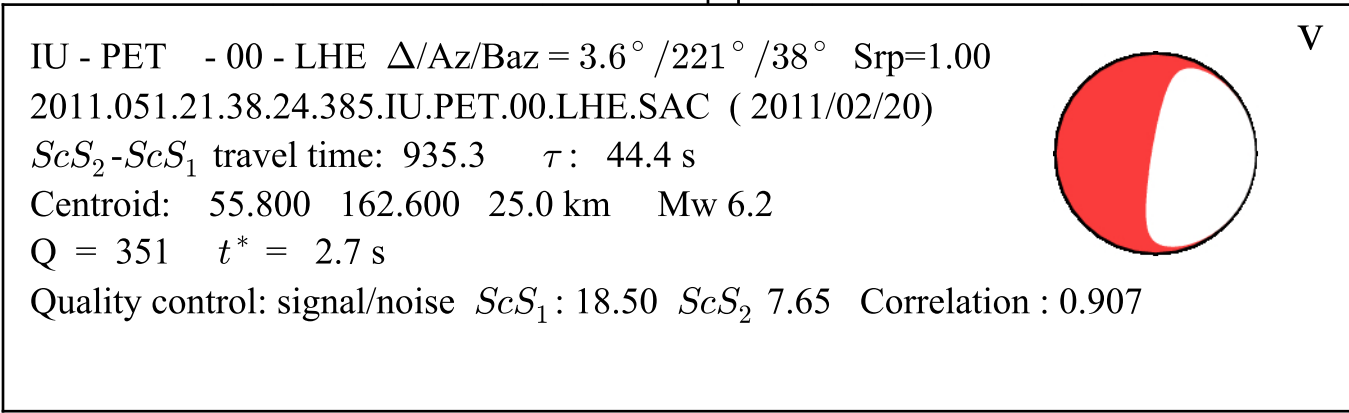


Time [s]

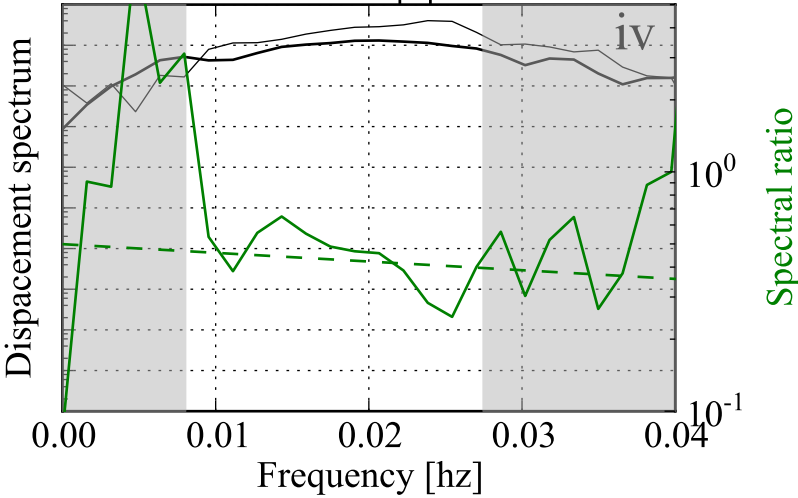


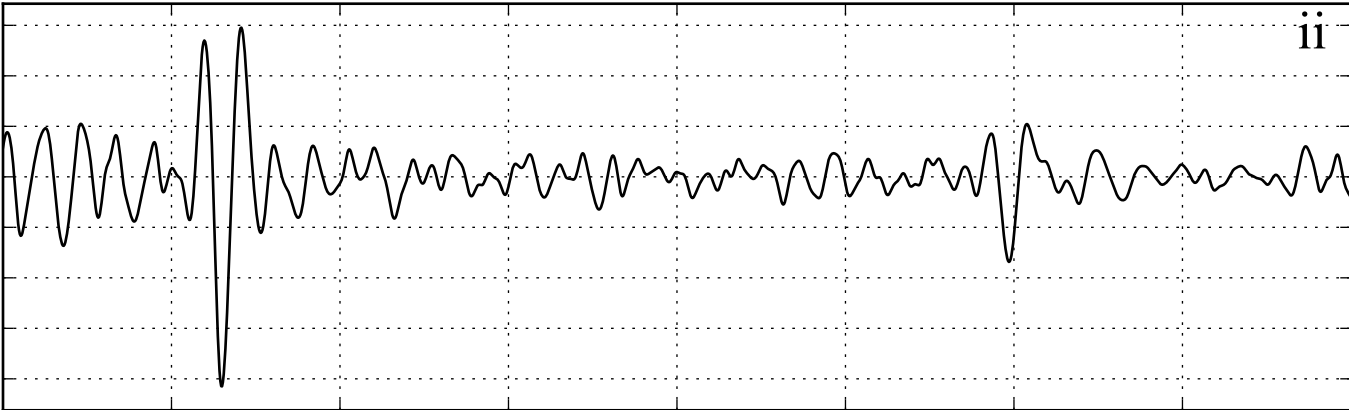
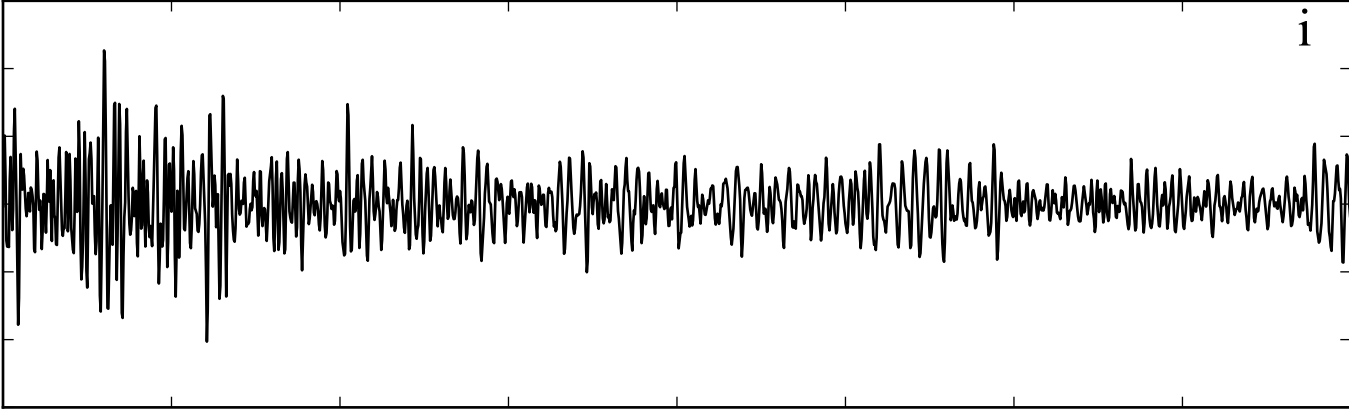


Time [s]

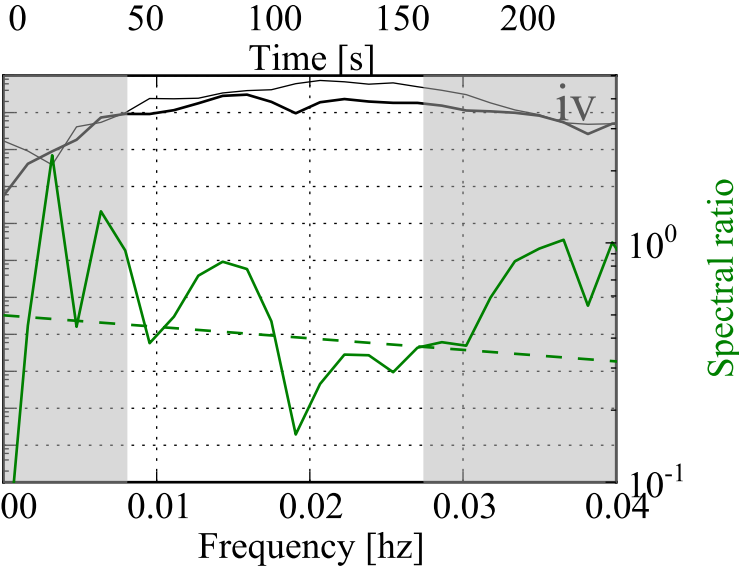
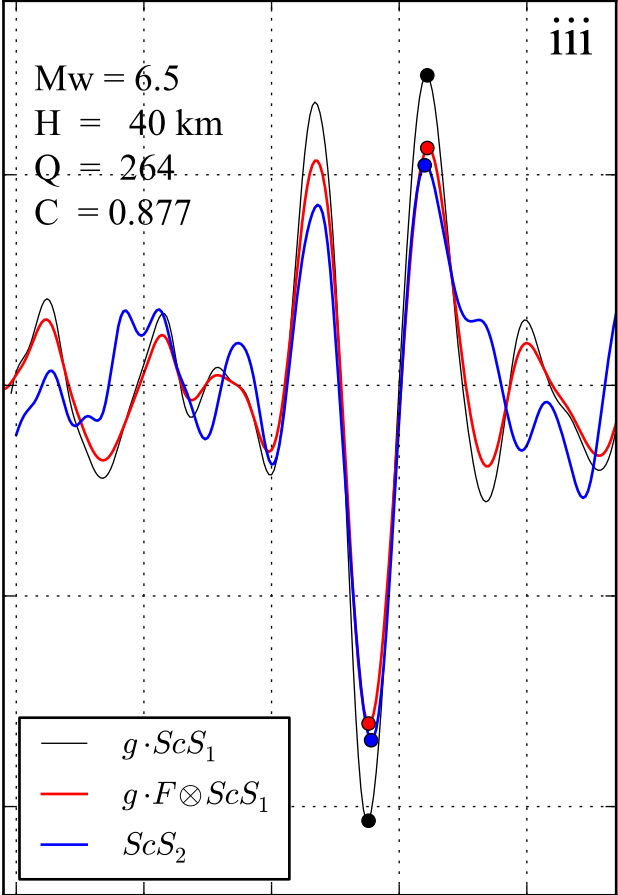
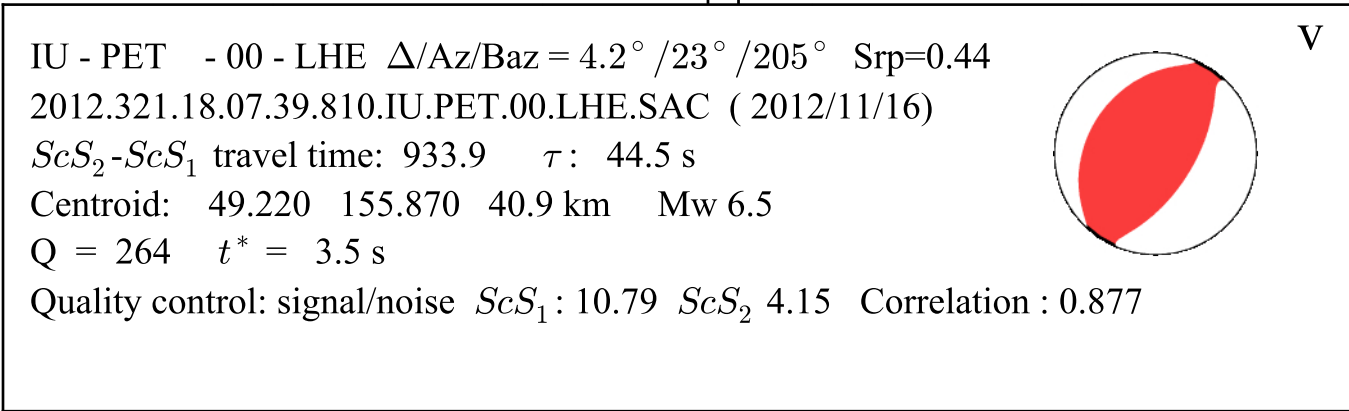


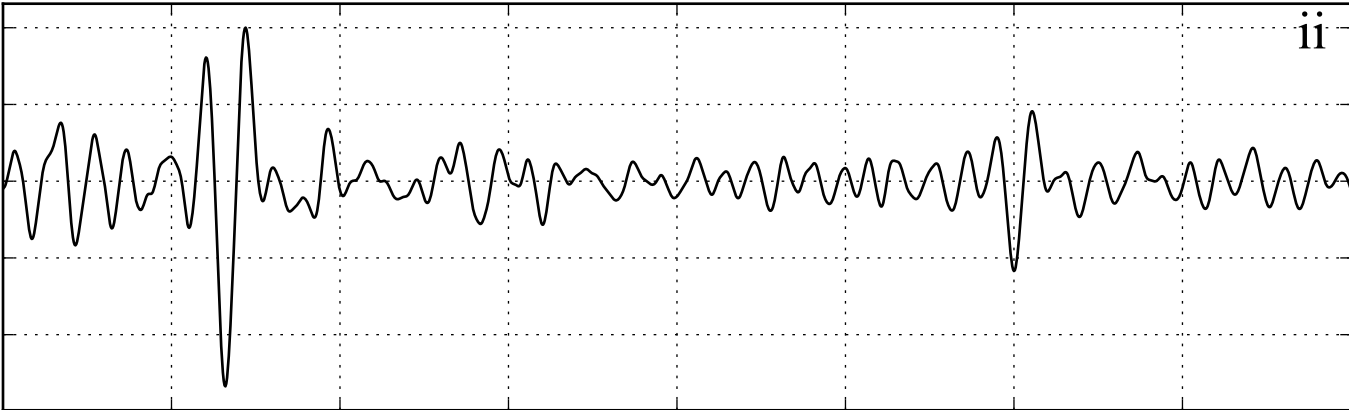
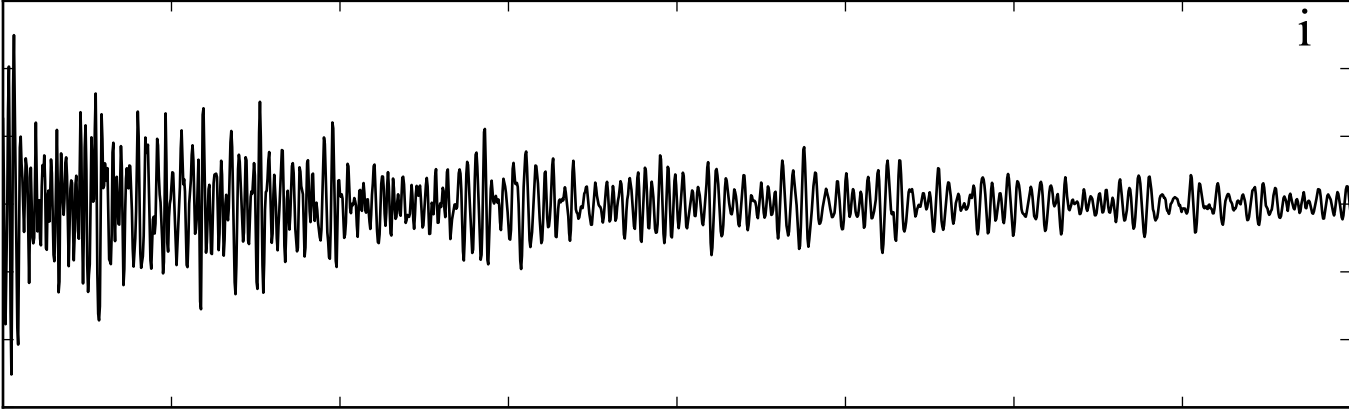
Time [s]



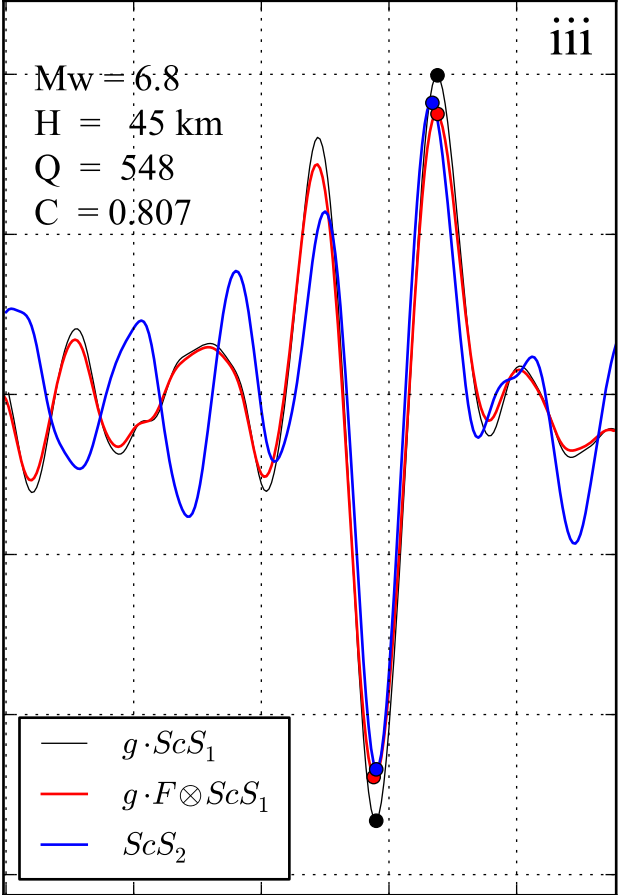
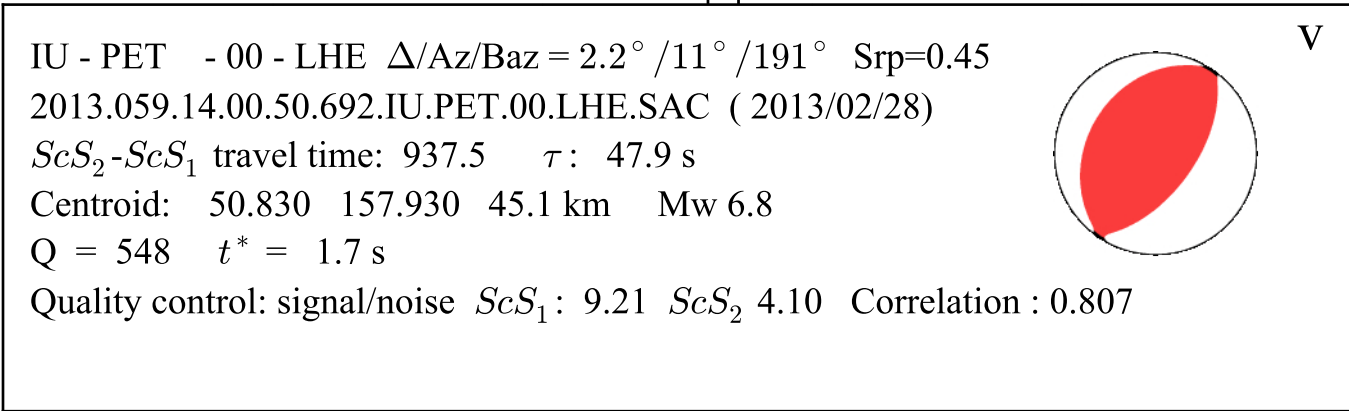


Time [s]

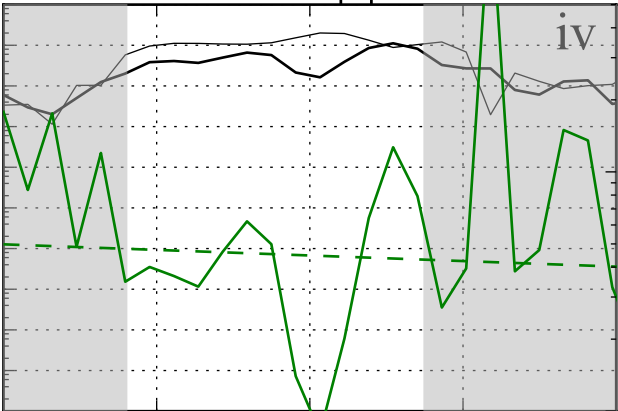




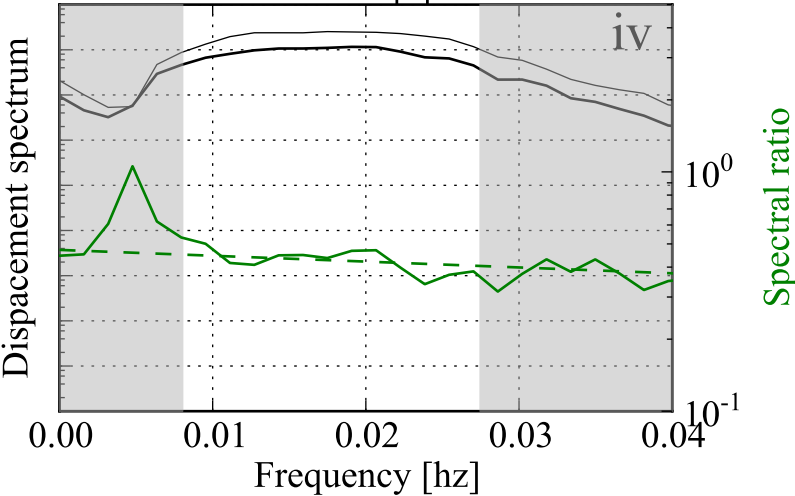
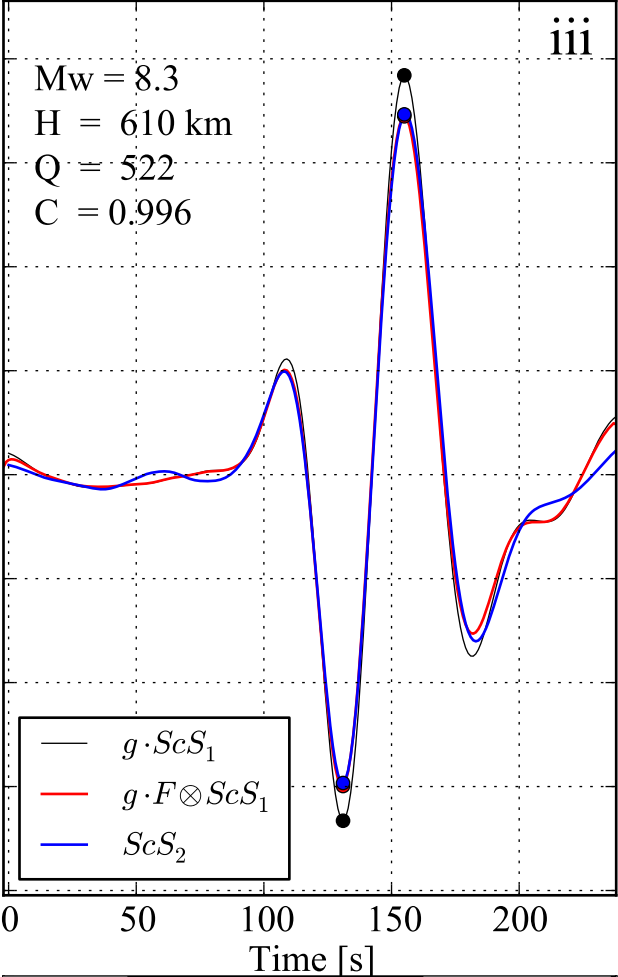
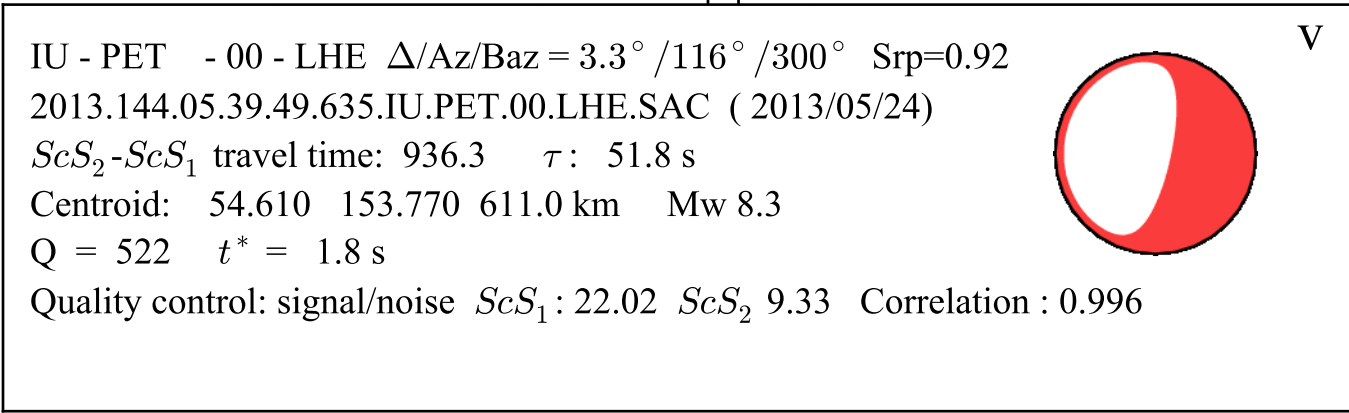
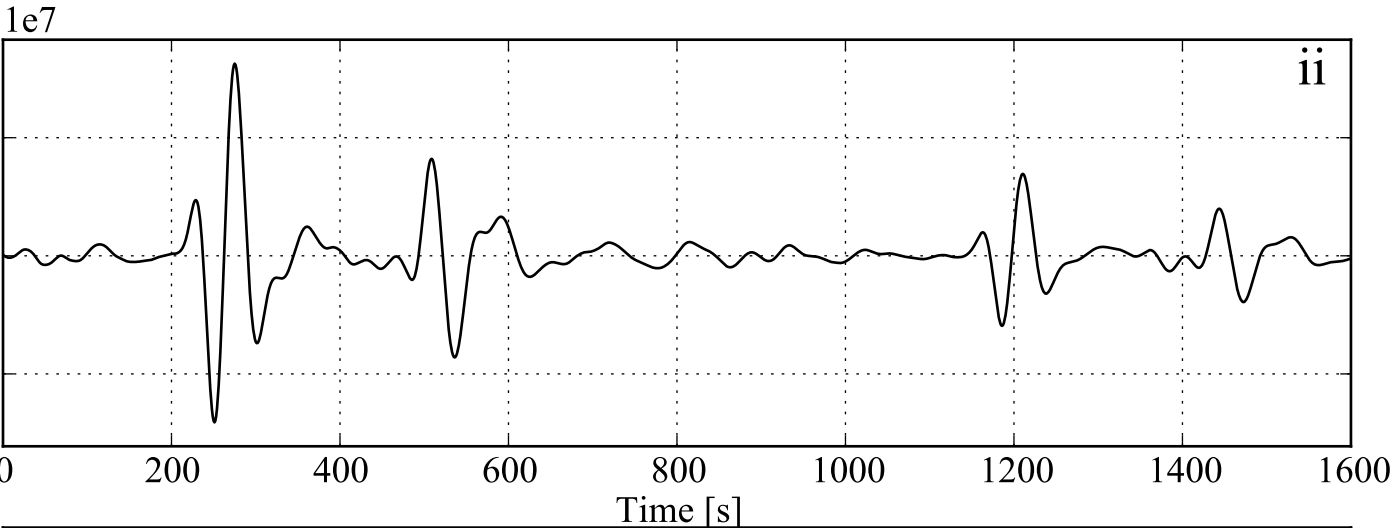
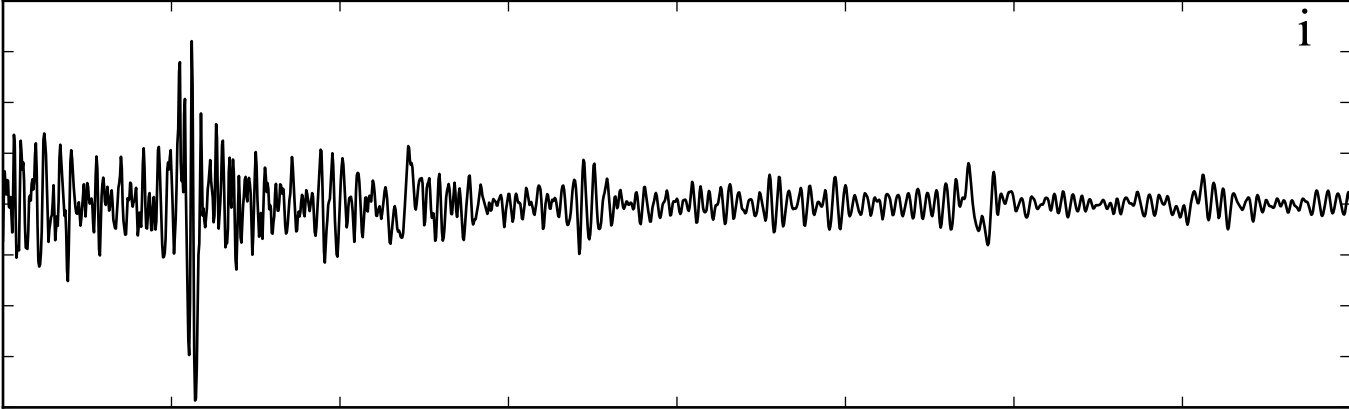
Time [s]

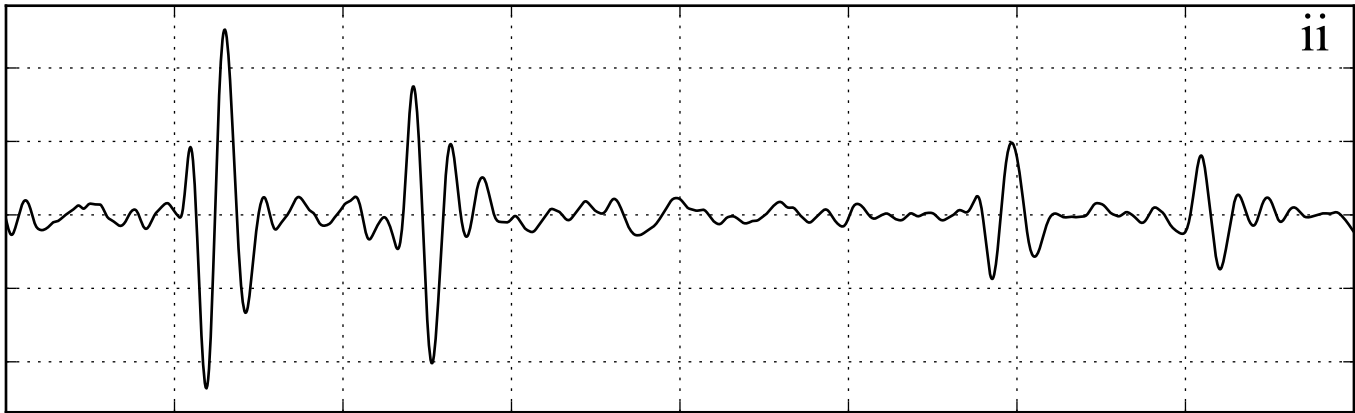
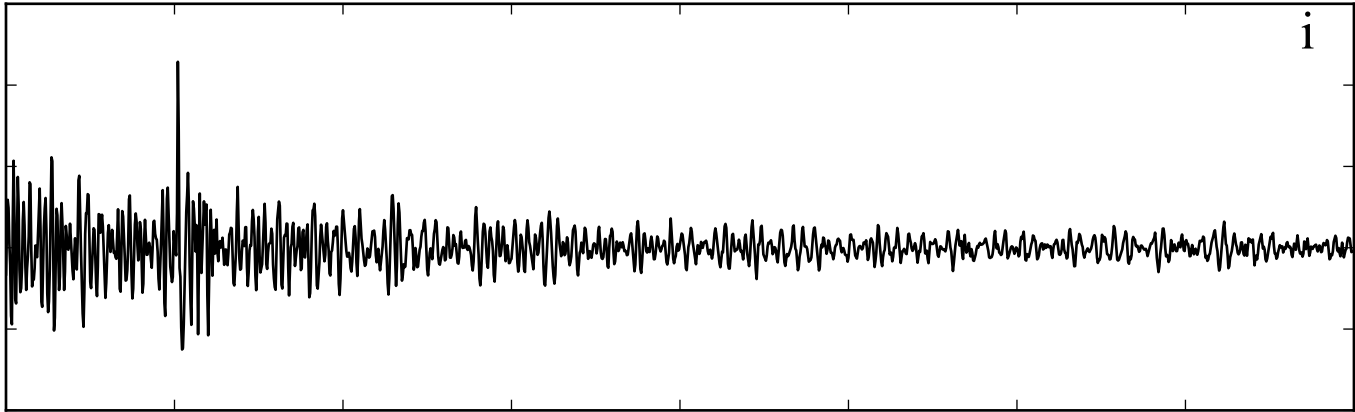


Time [s]



Frequency [hz]





Time [s]

IU - PET - 00 - LHE $\Delta/Az/Baz = 3.5^\circ/90^\circ/275^\circ$ Srp=0.64

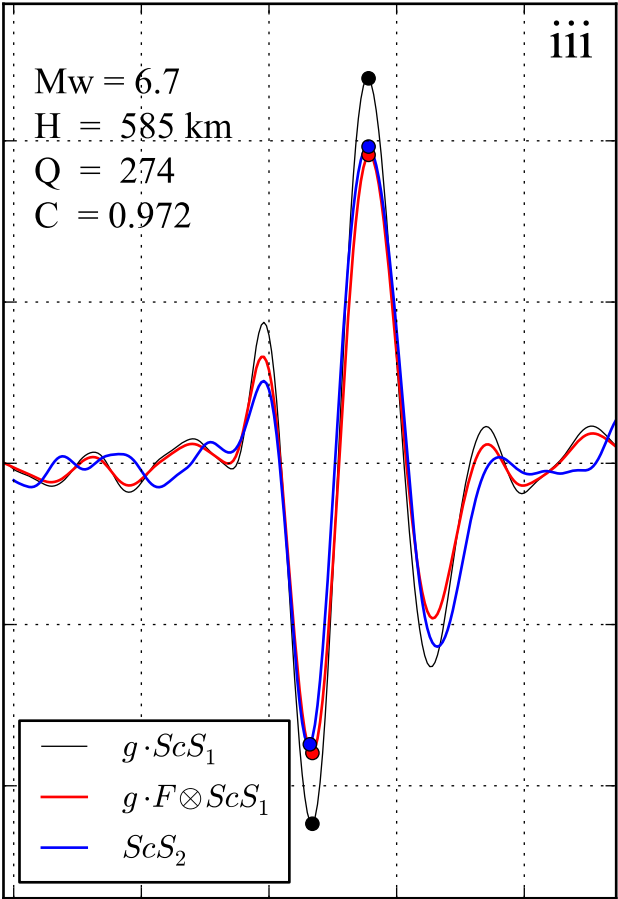
2013.274.03.33.21.635.IU.PET.00.LHE.SAC (2013/10/01)

ScS_2 - ScS_1 travel time: 935.2 τ : 46.4 s

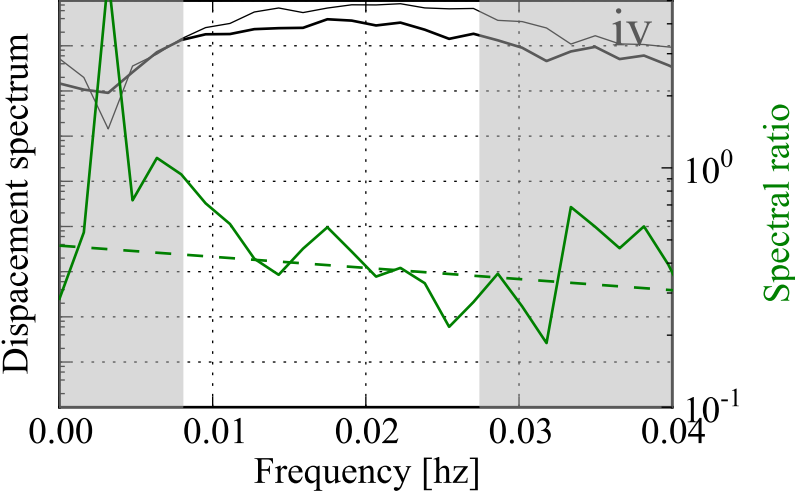
Centroid: 53.200 152.810 585.5 km Mw 6.7

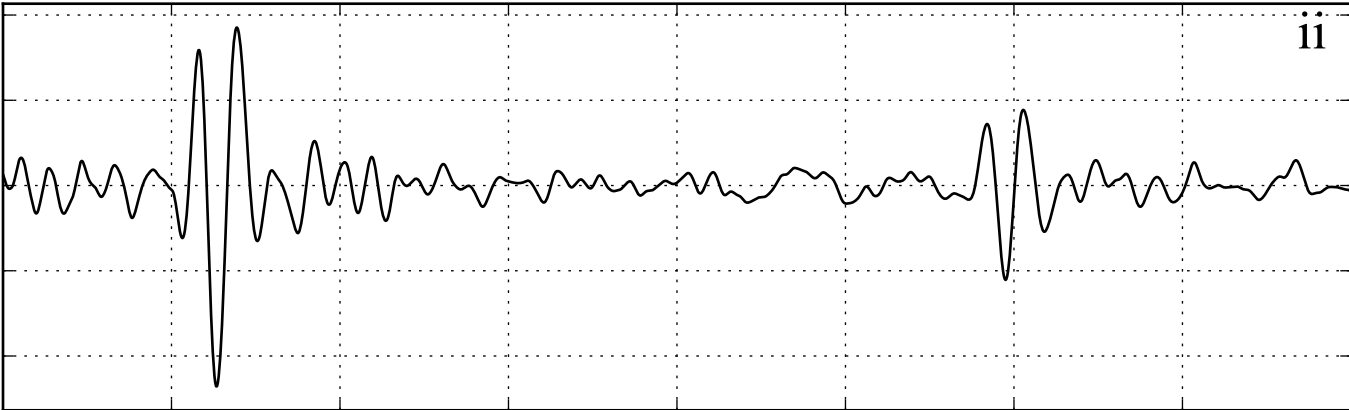
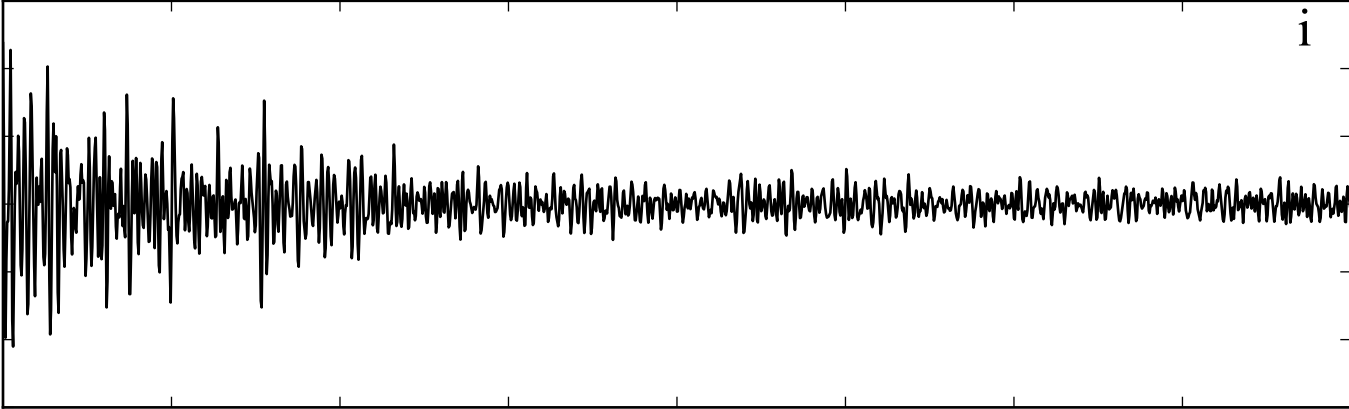
$Q = 274$ $t^* = 3.4$ s

Quality control: signal/noise ScS_1 : 20.77 ScS_2 7.88 Correlation : 0.972

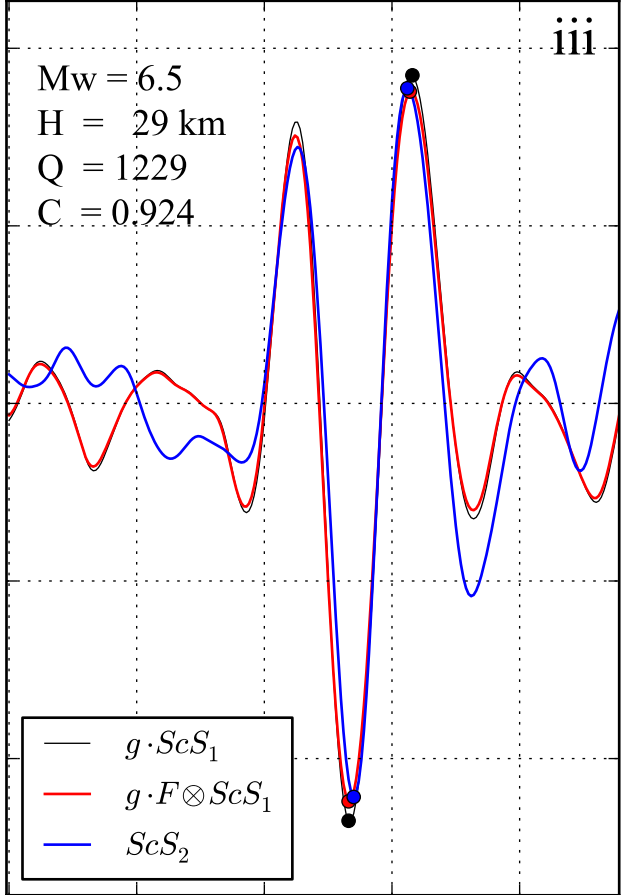
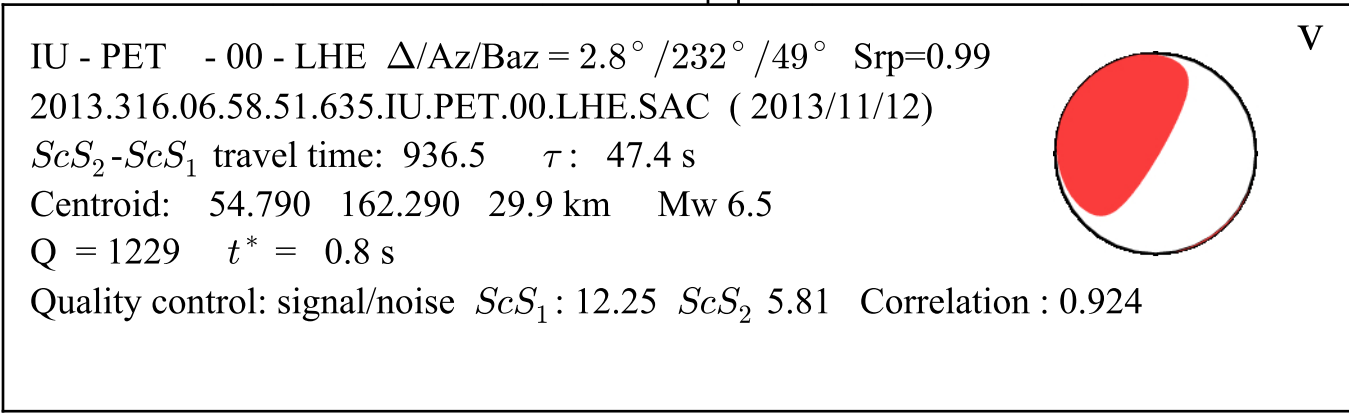


Time [s]

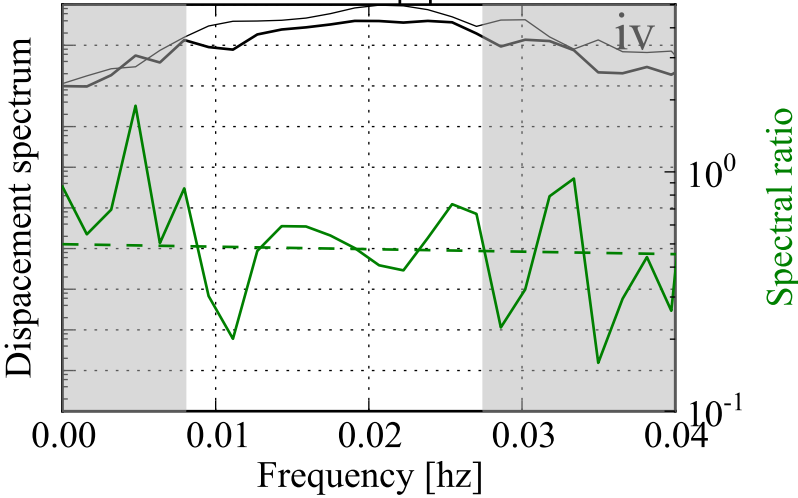


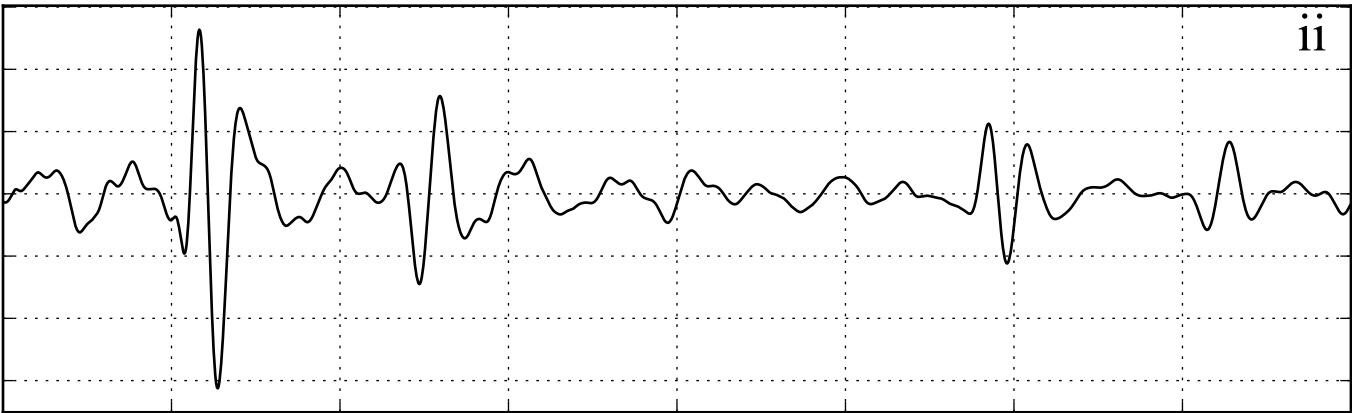
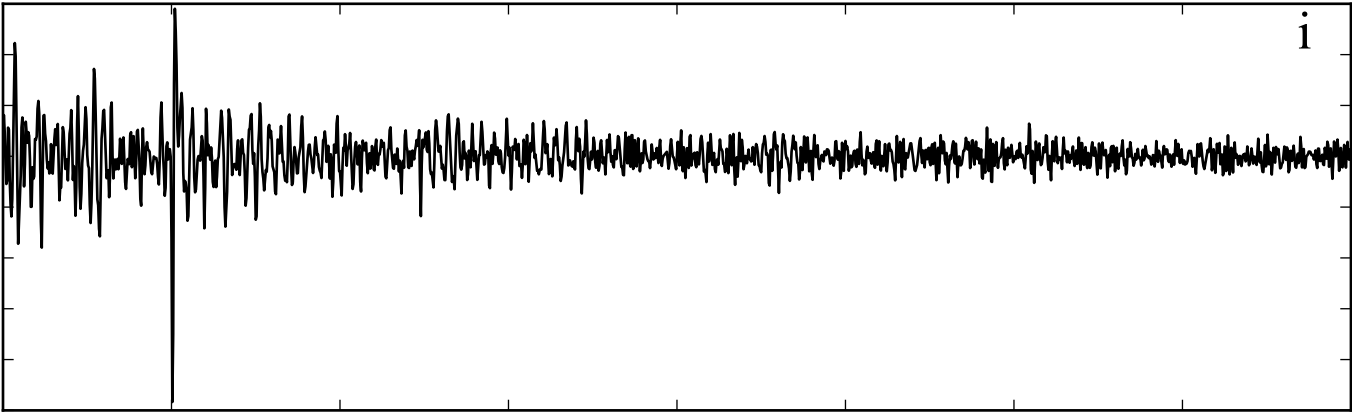


Time [s]

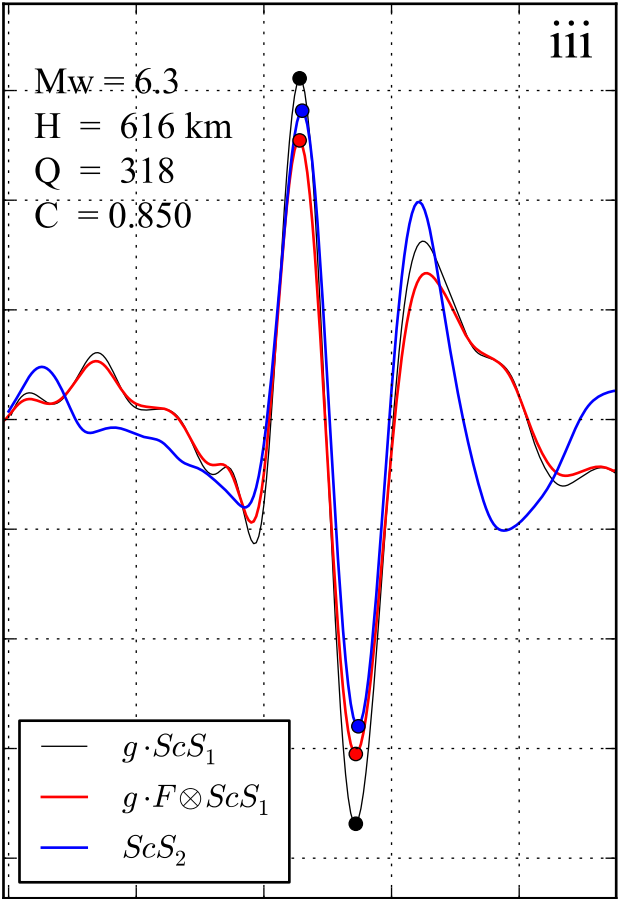
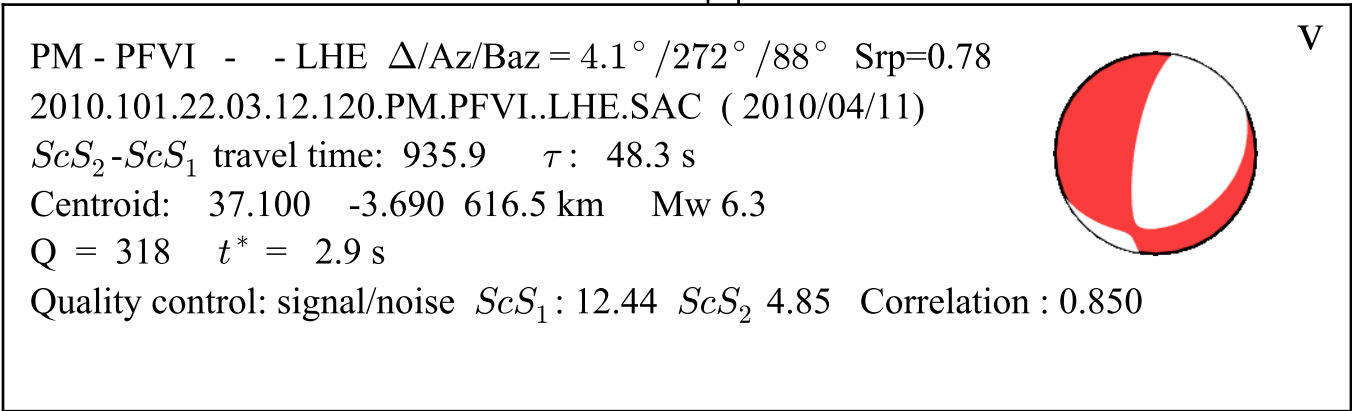


Time [s]

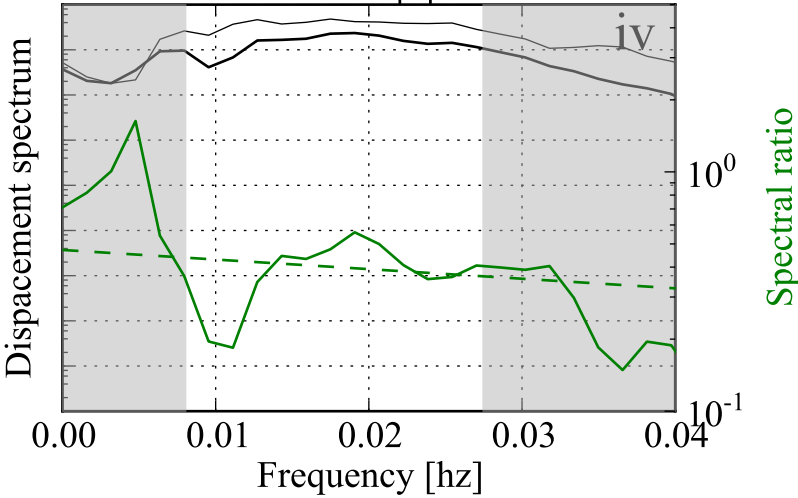


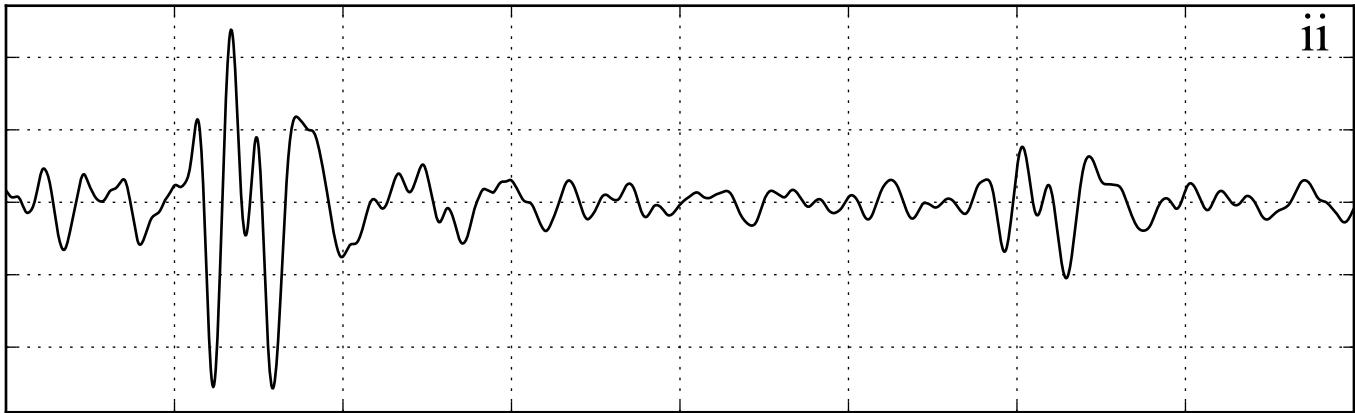
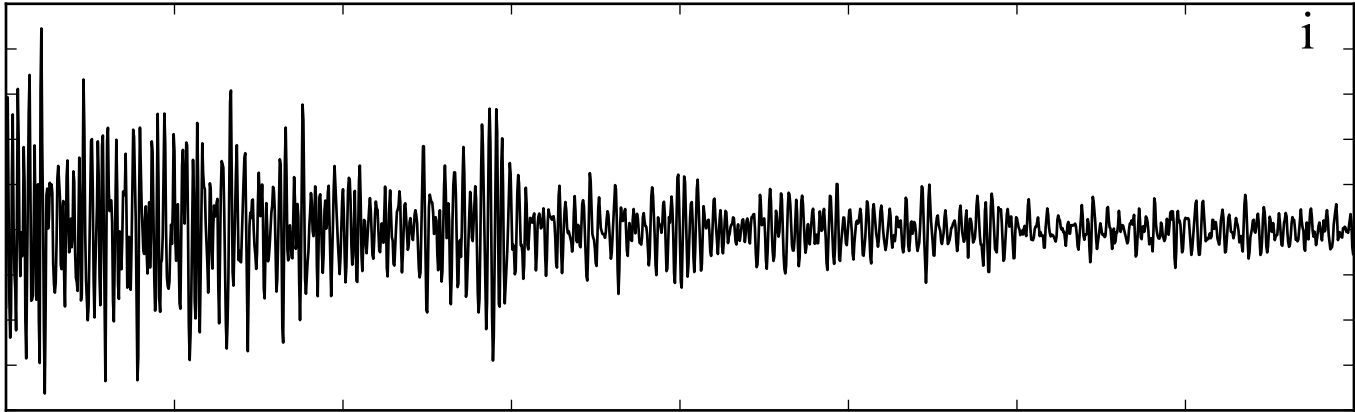


Time [s]



Time [s]




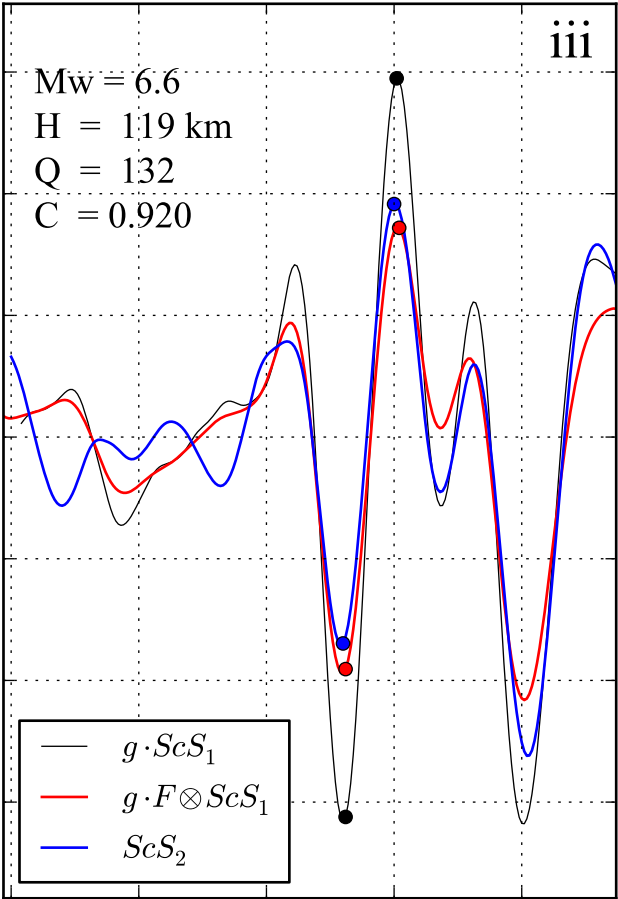


Time [s]

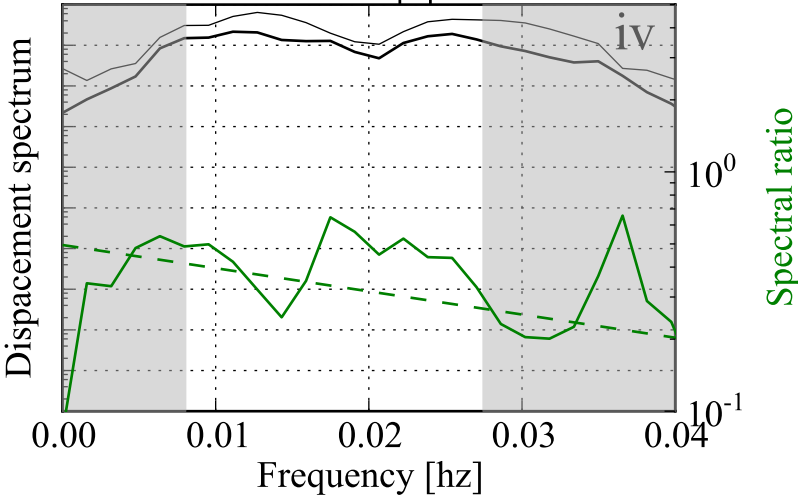
ND - PINNC - 00 - LHN $\Delta/Az/Baz = 2.7^\circ/245^\circ/66^\circ$ Srp=0.78
2014.121.06.31.35.956.ND.PINNC.00.LHN.SAC (2014/05/01)
 ScS_2 - ScS_1 travel time: 938.4 τ : 42.9 s
Centroid: -21.510 170.150 119.5 km Mw 6.6
 $Q = 132$ $t^* = 7.1$ s
Quality control: signal/noise ScS_1 : 12.00 ScS_2 3.53 Correlation : 0.920

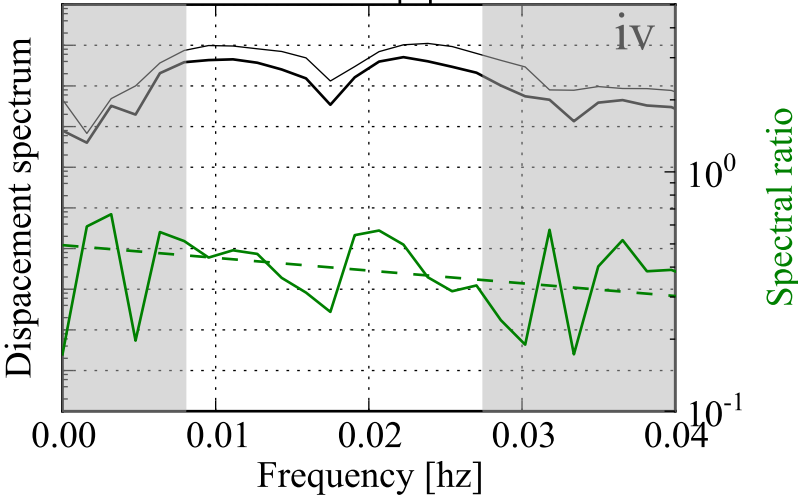
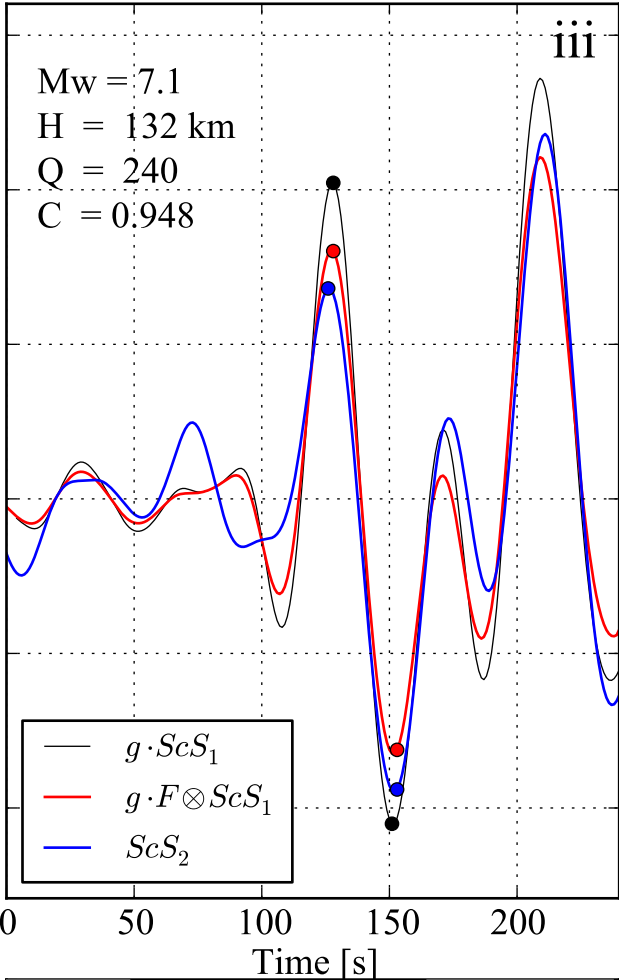
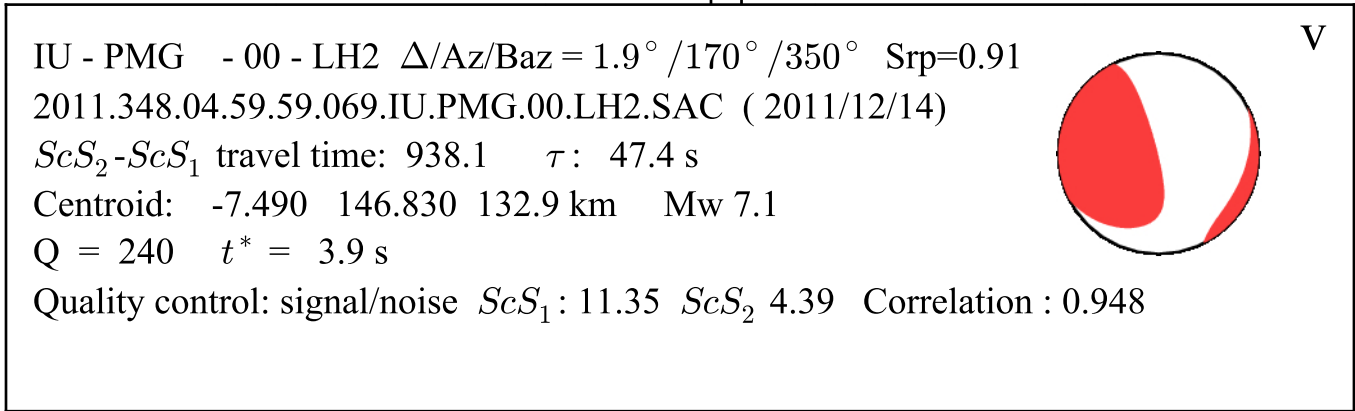
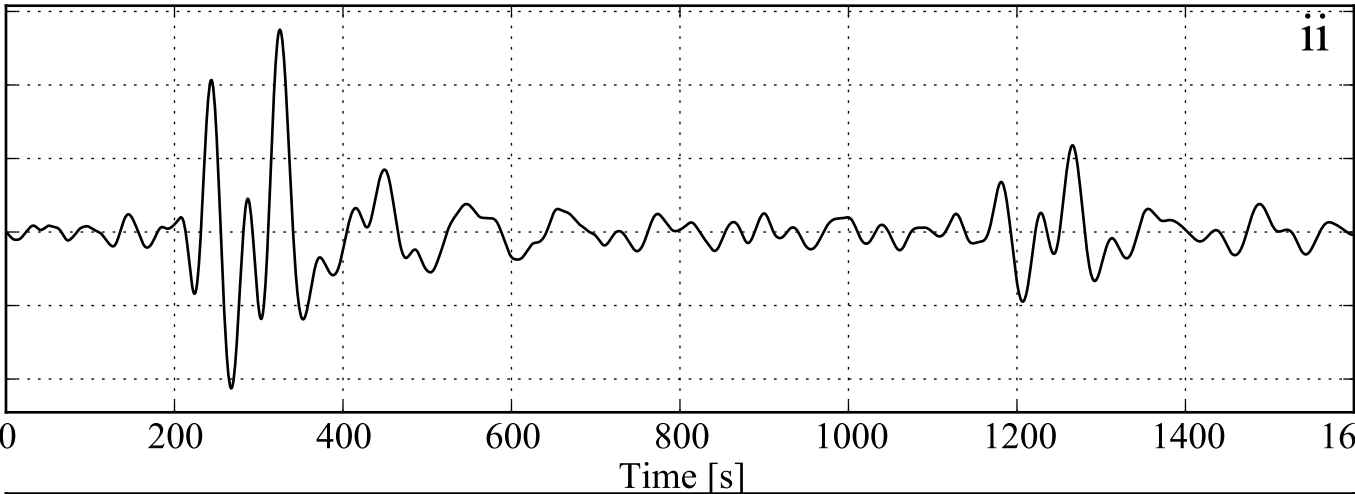
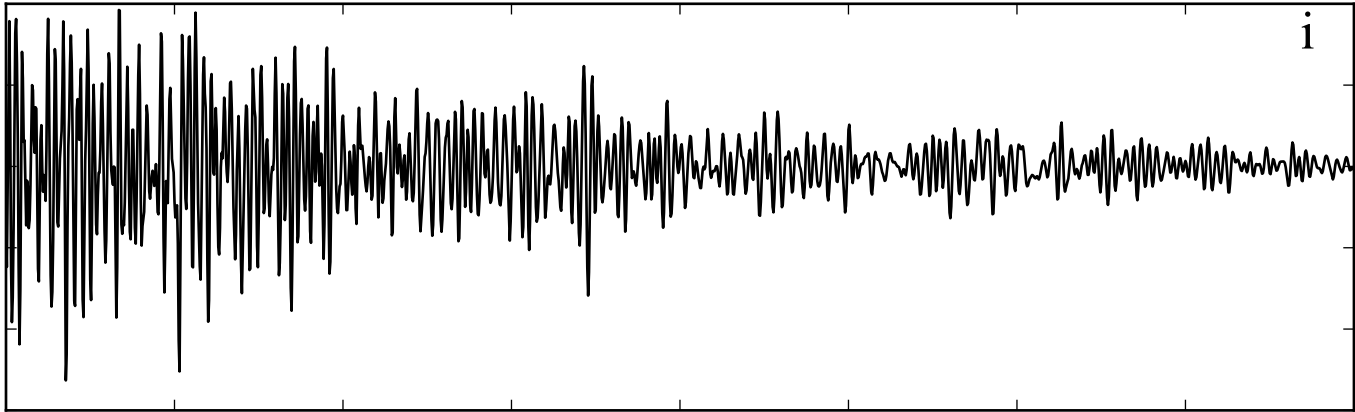
v

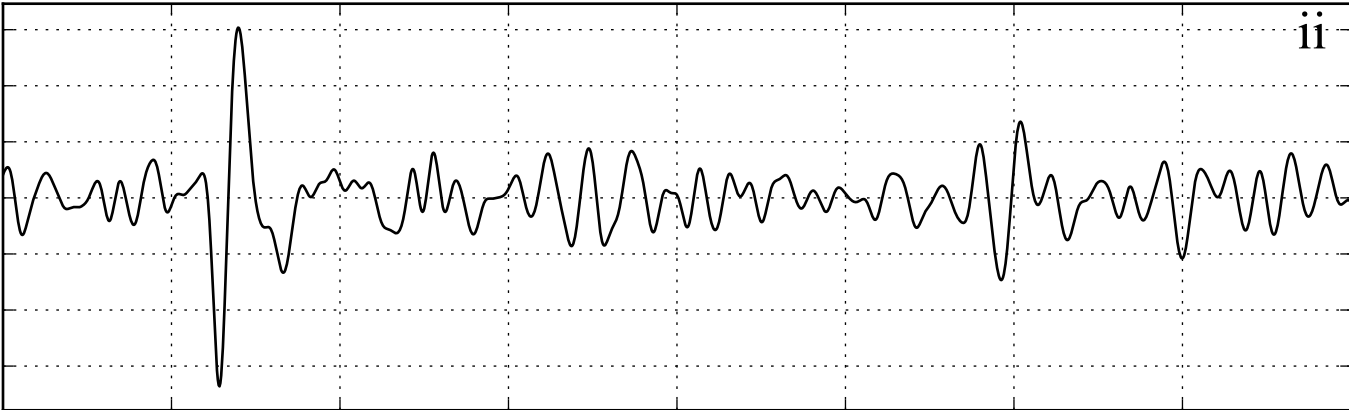
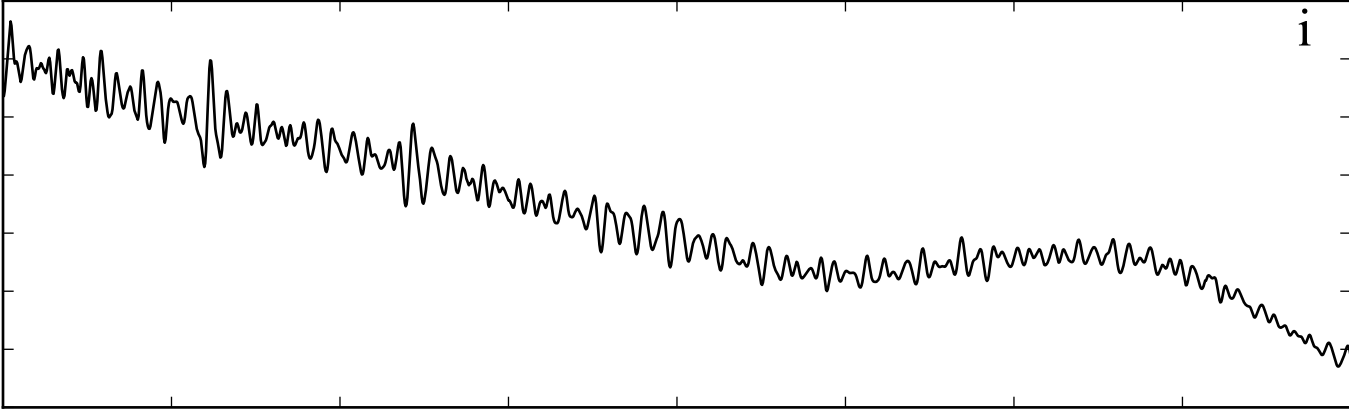




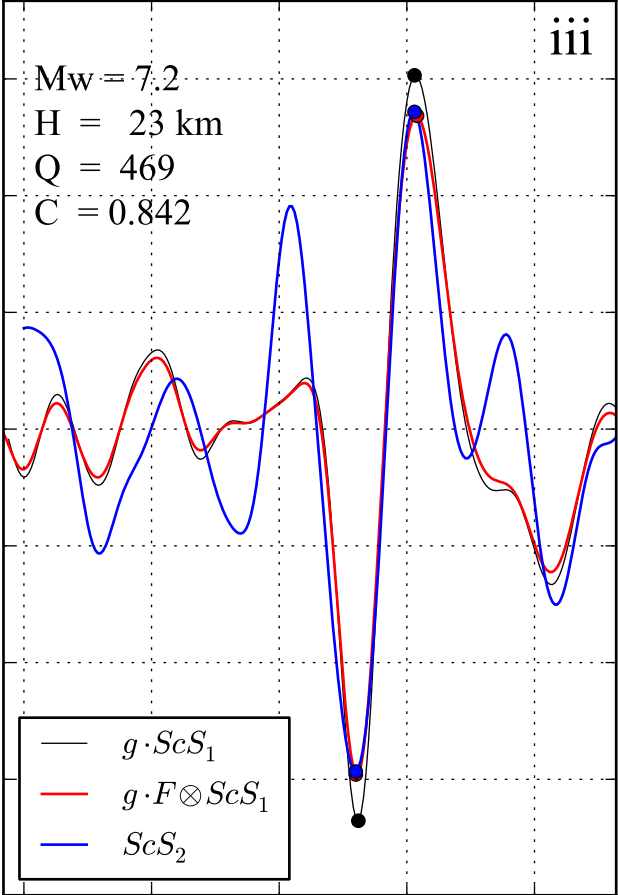
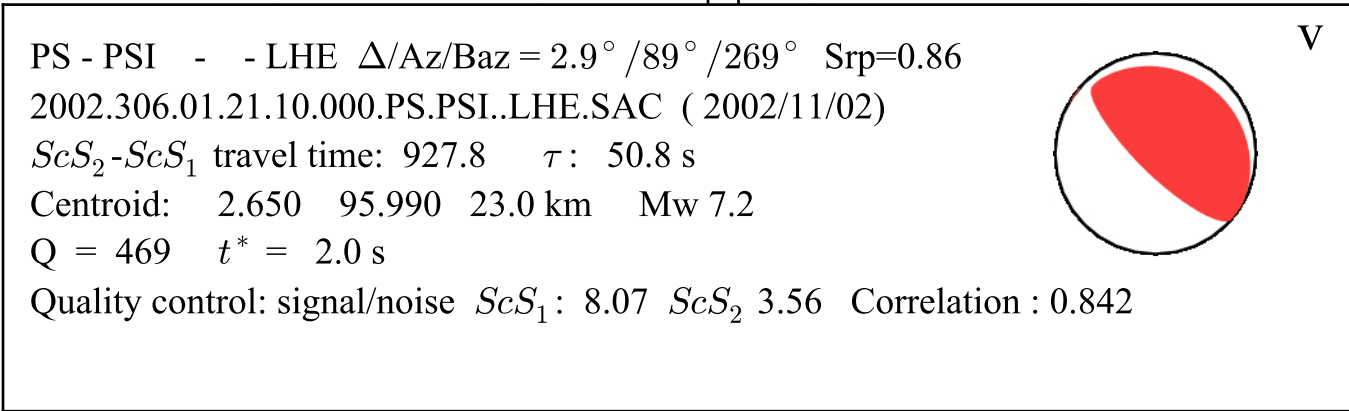
Time [s]



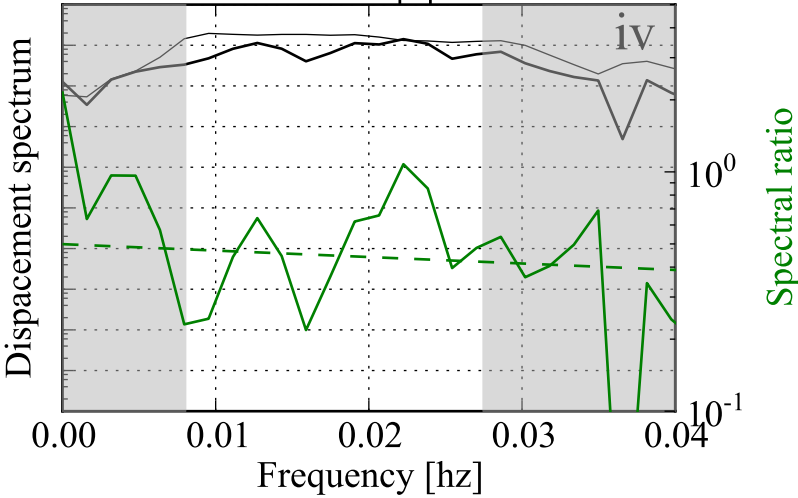


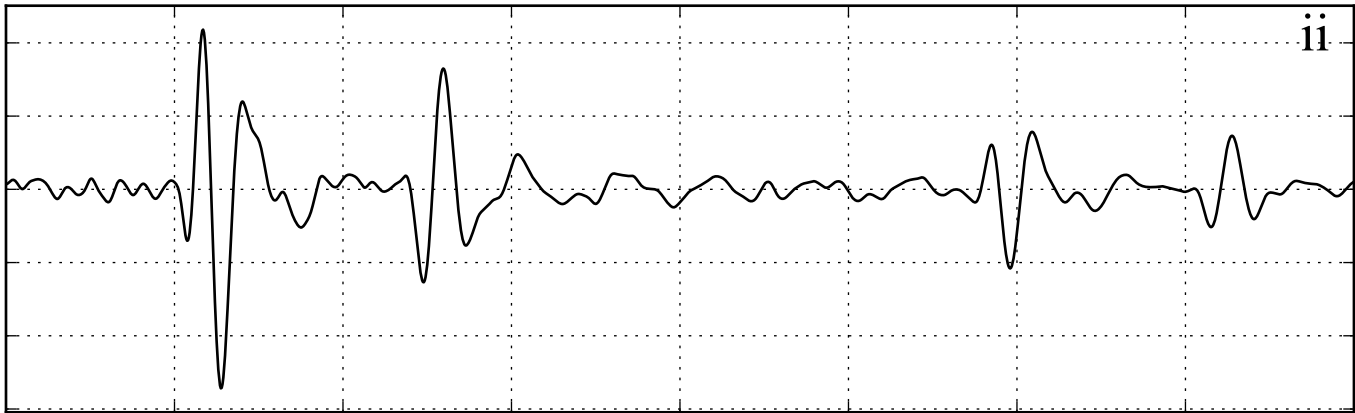
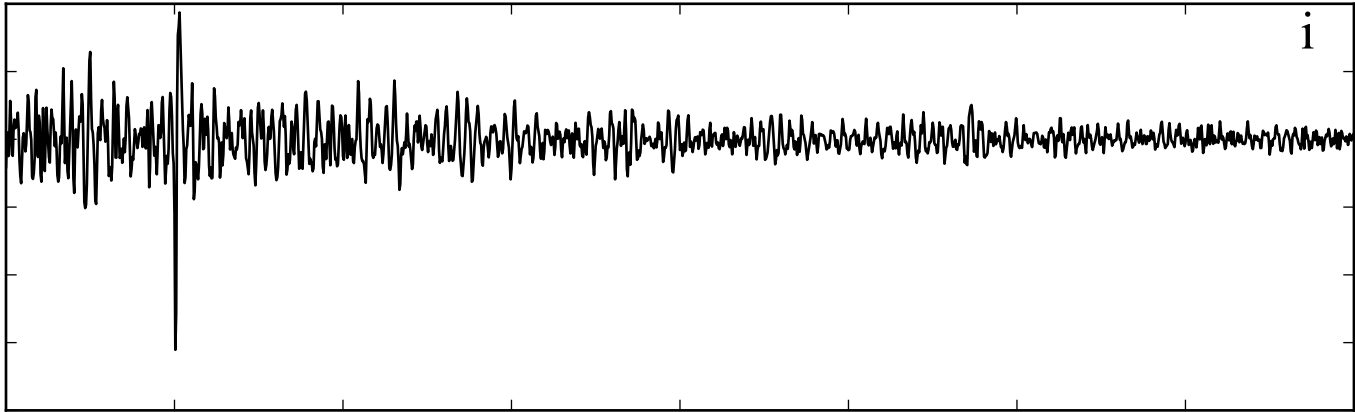


Time [s]

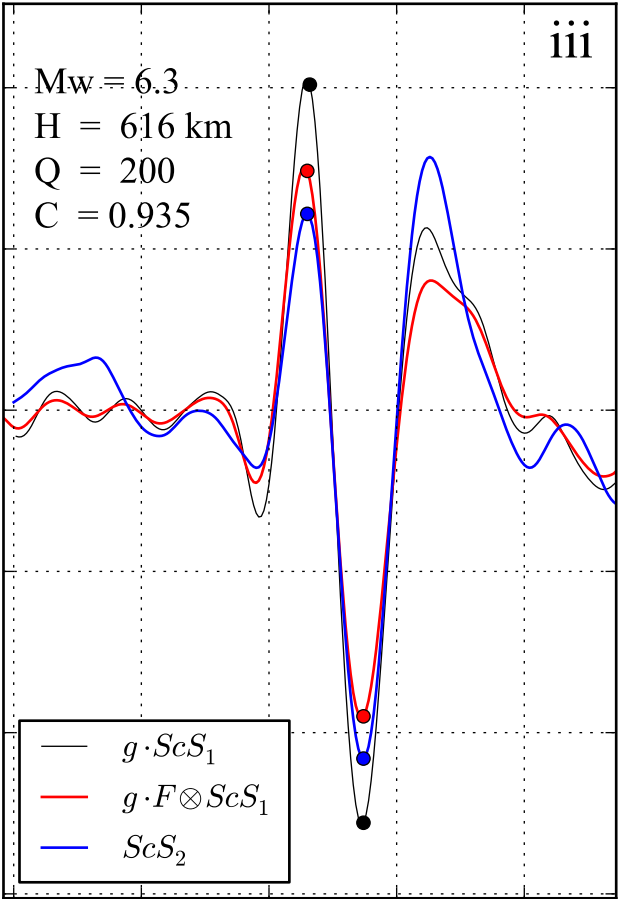
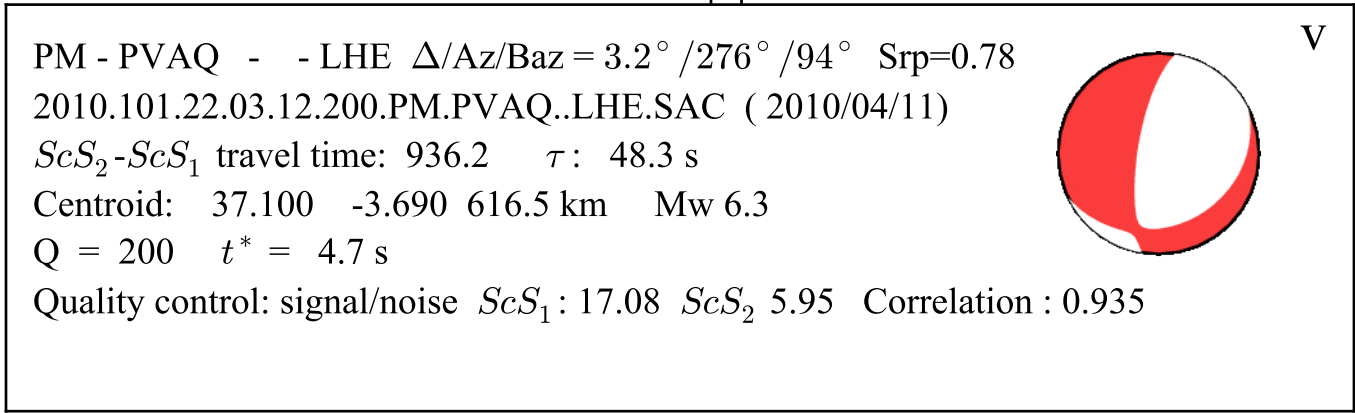


Time [s]

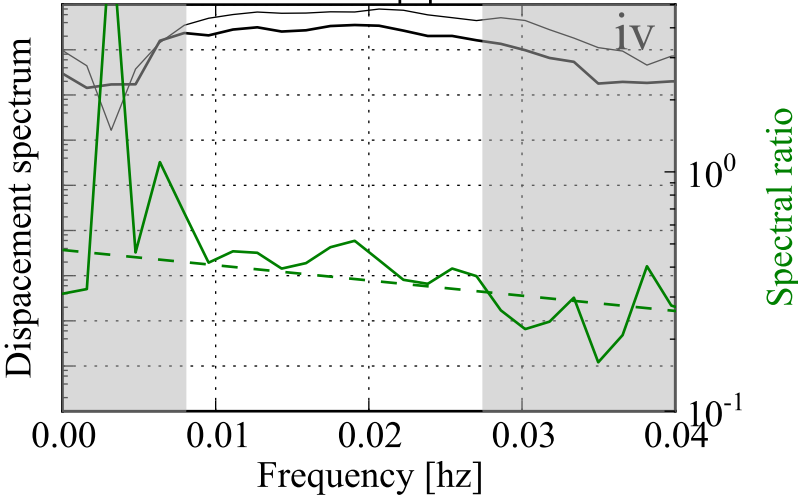


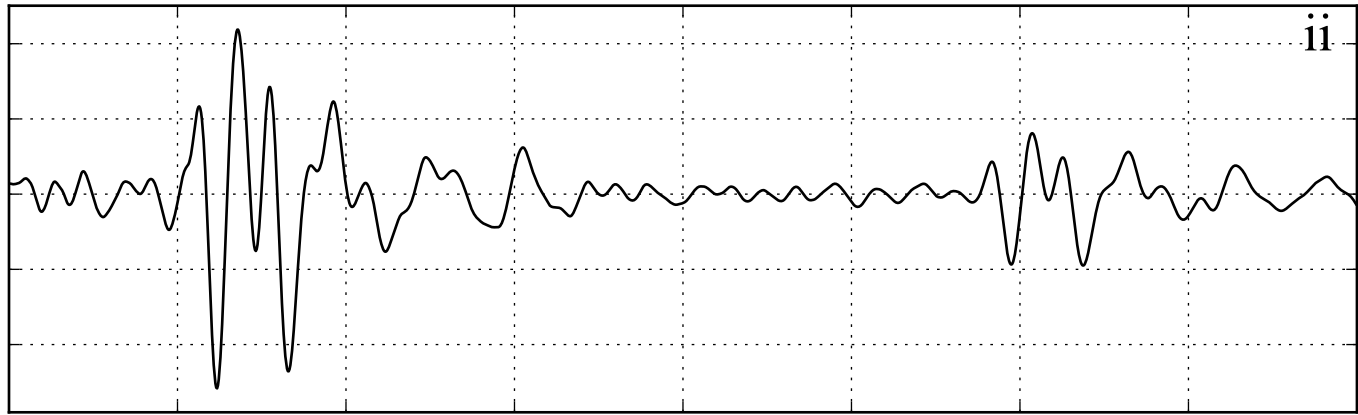
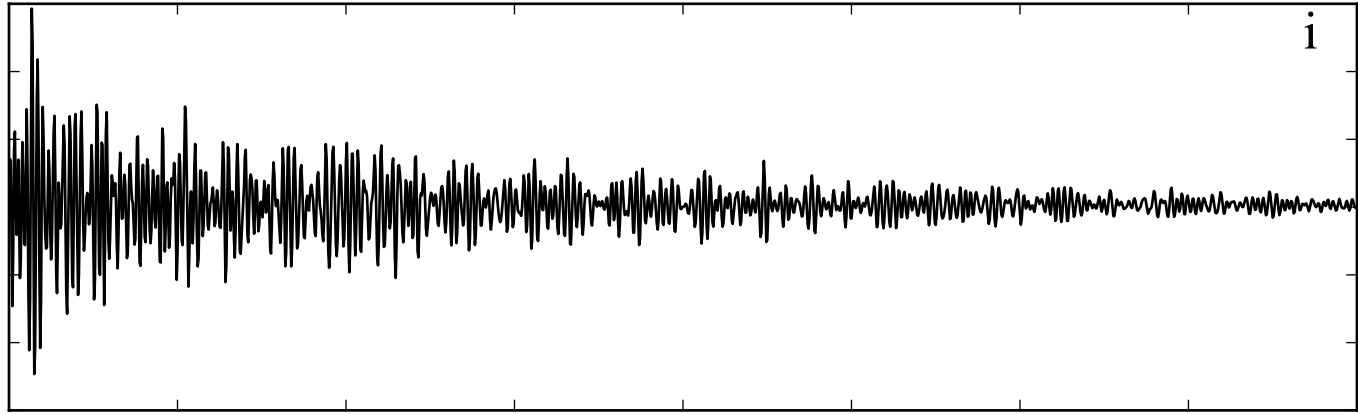


Time [s]



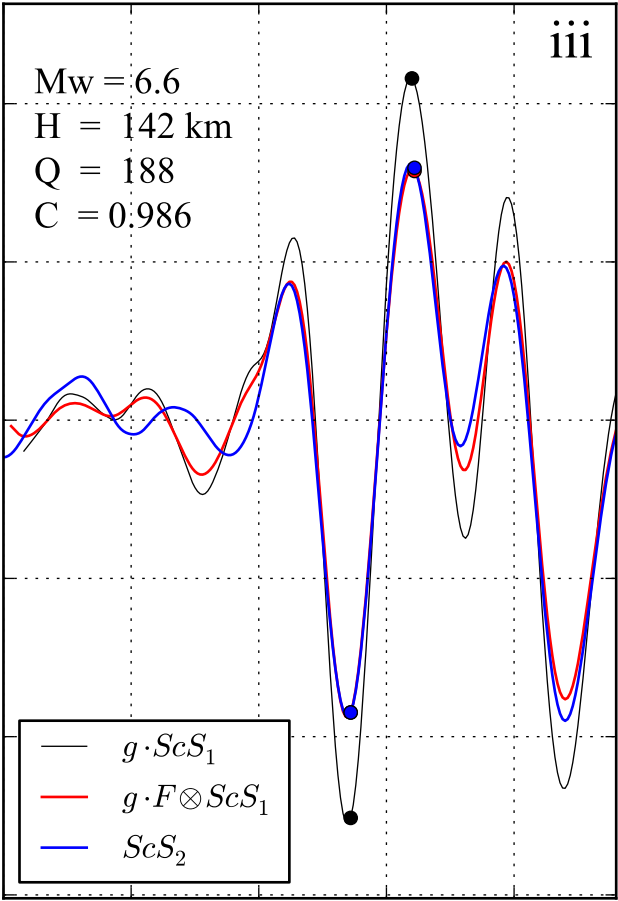
Time [s]



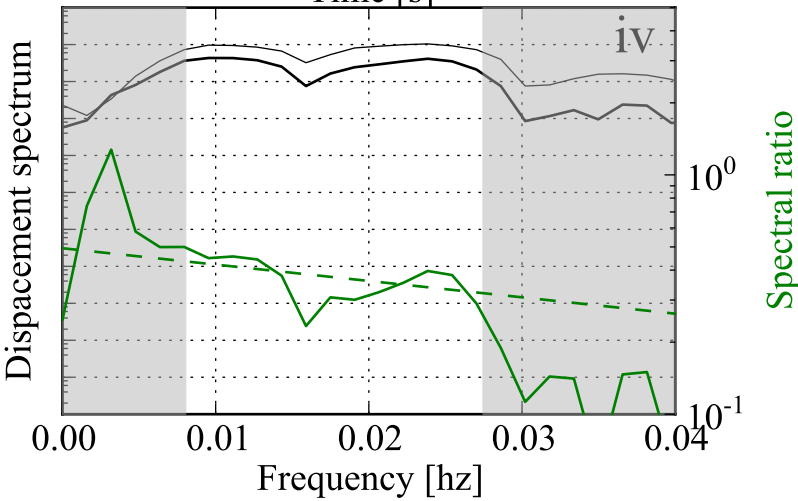


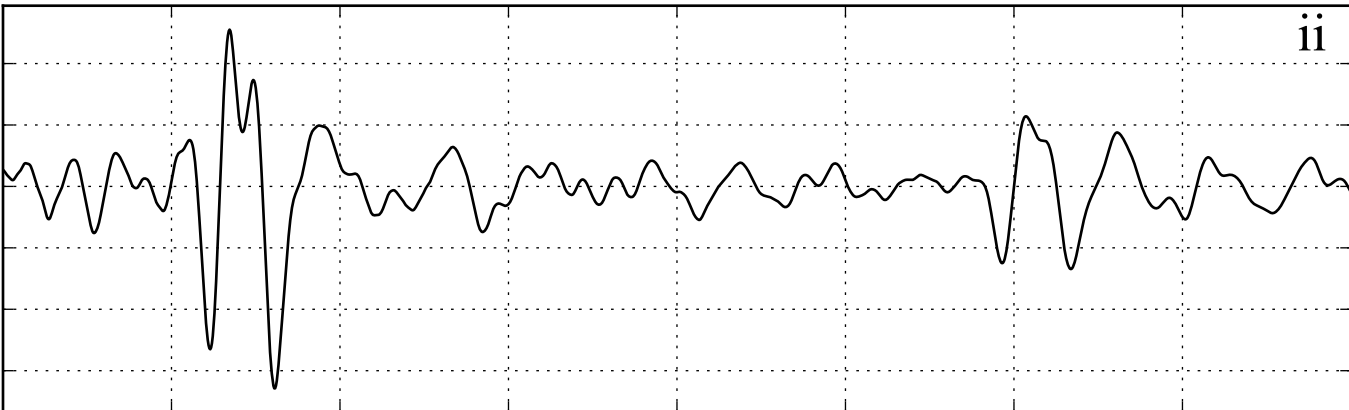
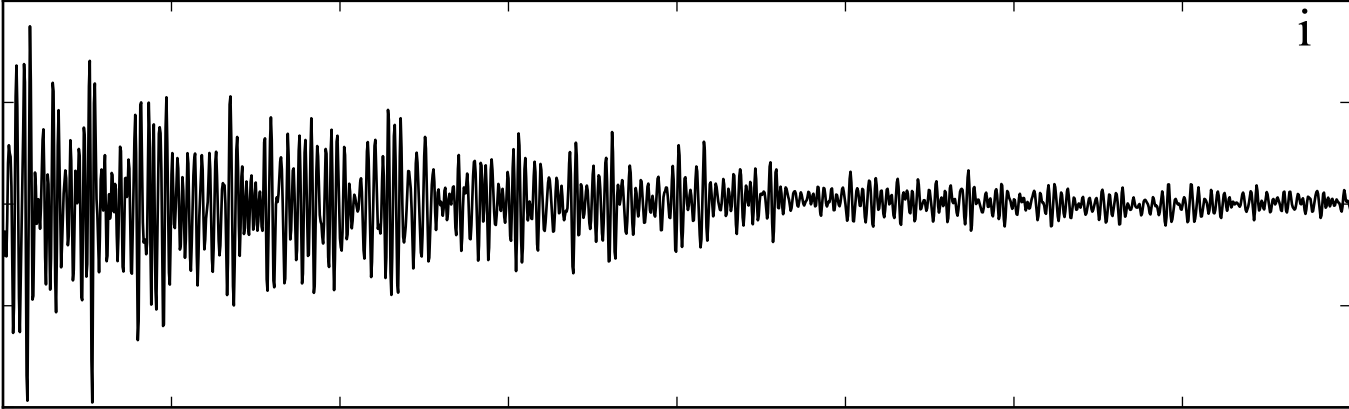
Time [s]

G - PVC - - LH2 $\Delta/Az/Baz = 1.8^\circ/339^\circ/160^\circ$ Srp=0.96
1995.180.12.19.03.345.G.PVC..LH2.SAC (1995/06/29)
 ScS_2 - ScS_1 travel time: 942.5 τ : 49.7 s
Centroid: -19.420 168.950 142.7 km Mw 6.6
 $Q = 188$ $t^* = 5.0$ s
Quality control: signal/noise ScS_1 : 21.68 ScS_2 7.89 Correlation : 0.986

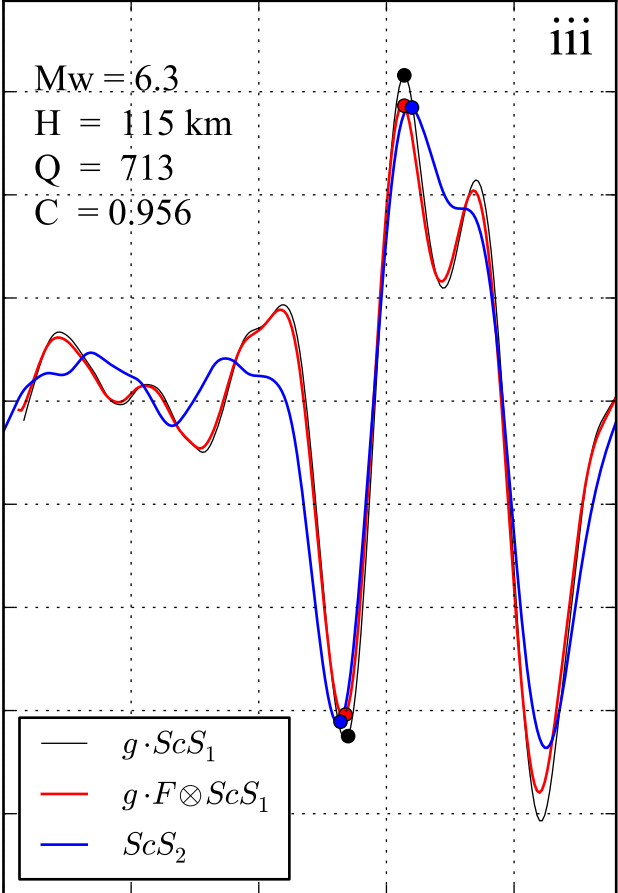
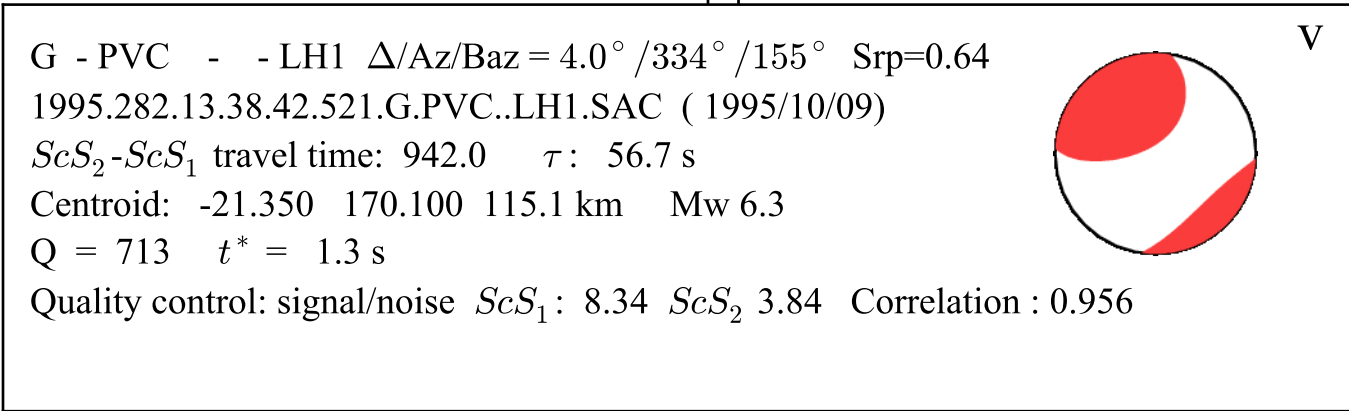


Time [s]

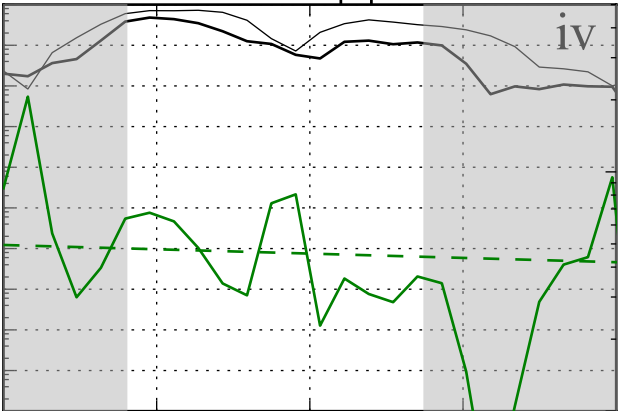




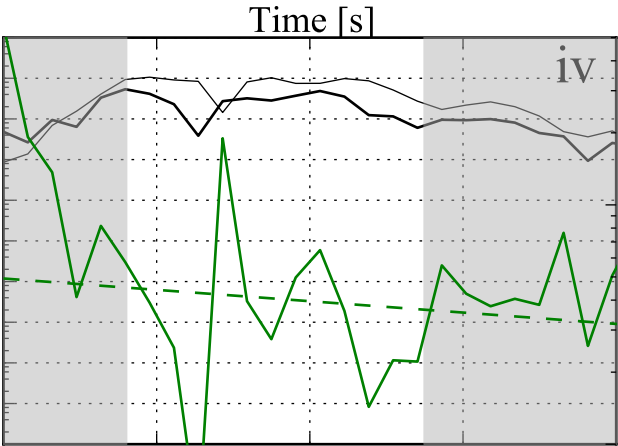
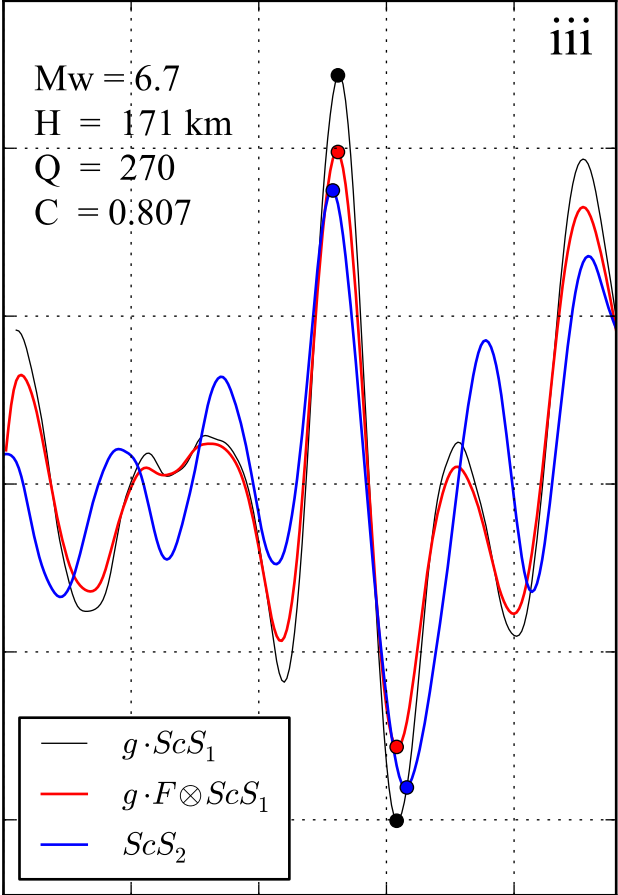
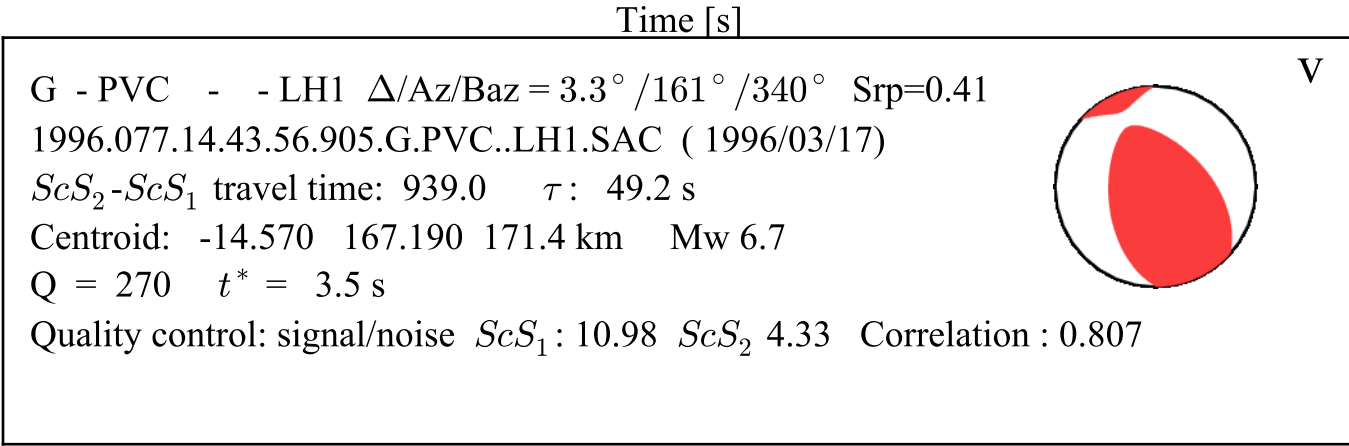
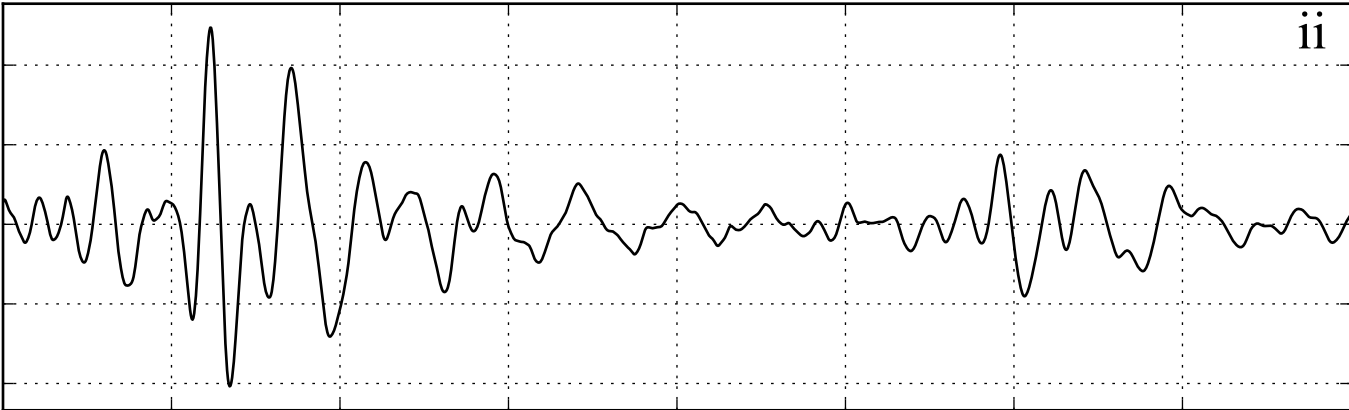
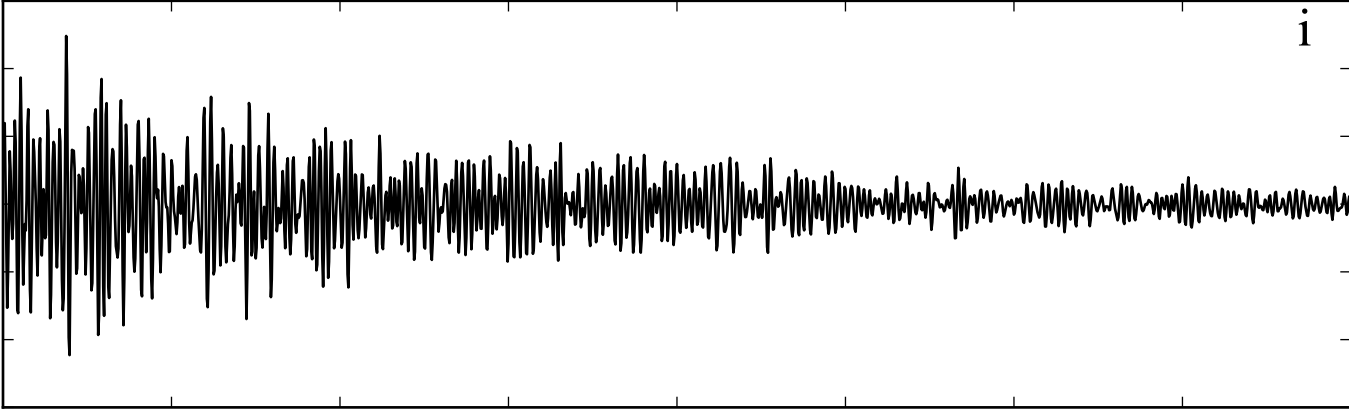
Time [s]

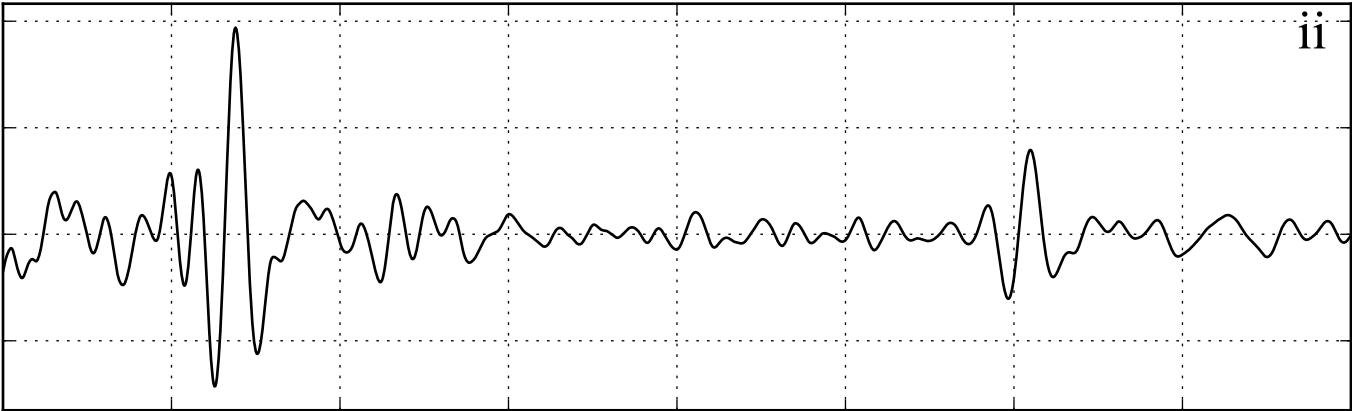
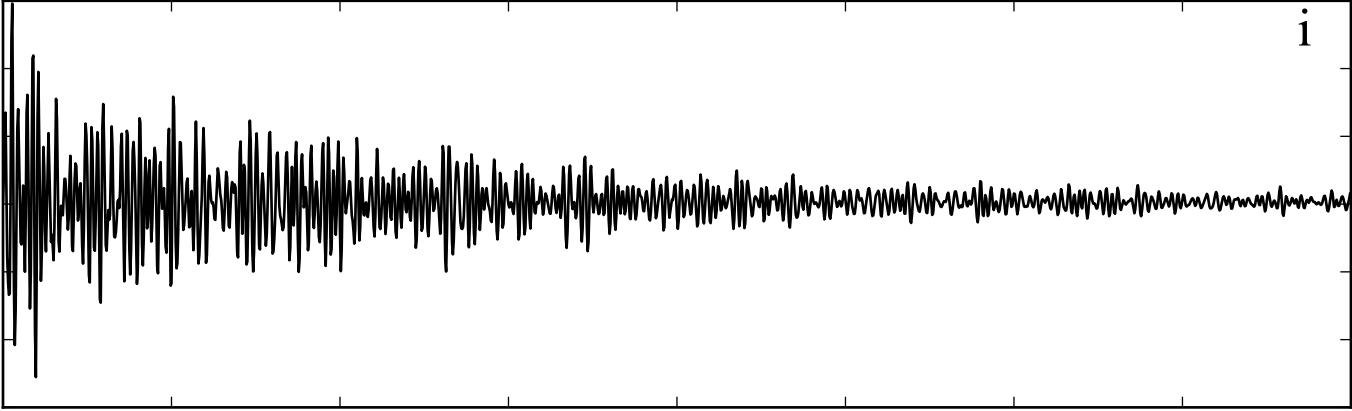


Time [s]

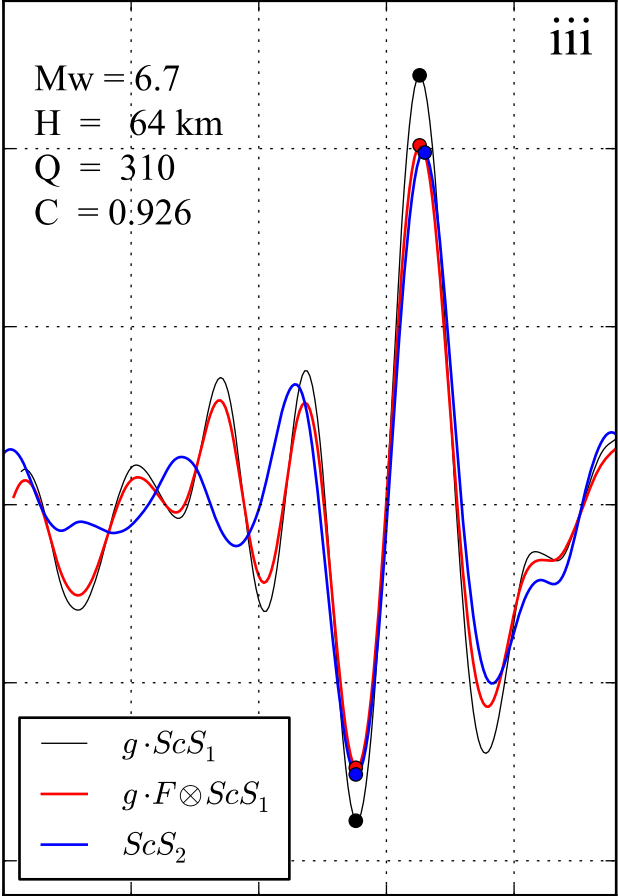
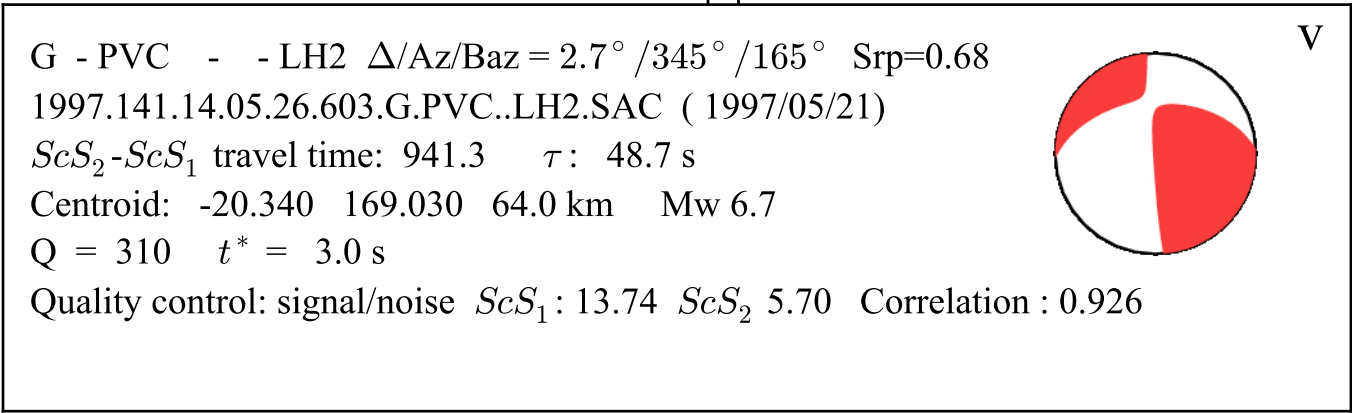


Frequency [hz]

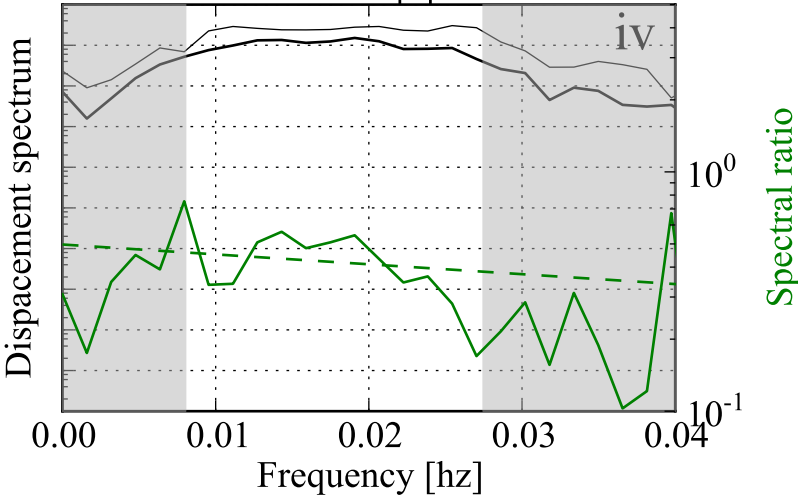


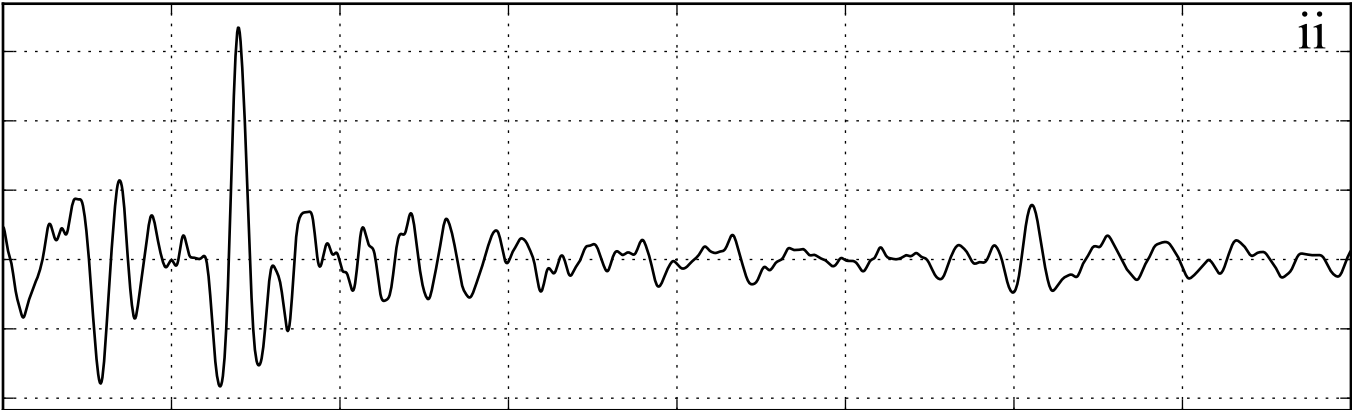
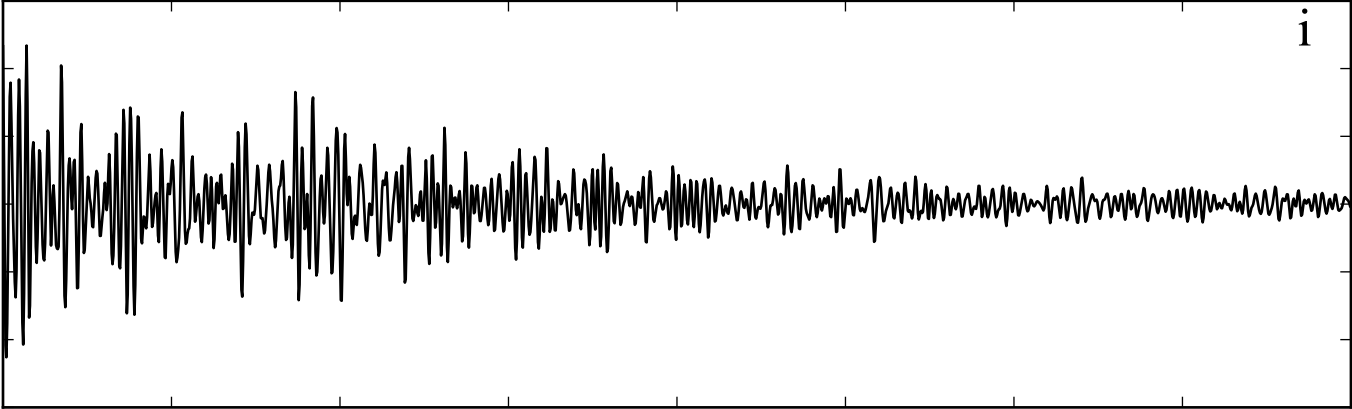


Time [s]



Time [s]





Time [s]

G - PVC - - LH2 $\Delta/Az/Baz = 4.5^\circ/341^\circ/161^\circ$ Srp=0.54

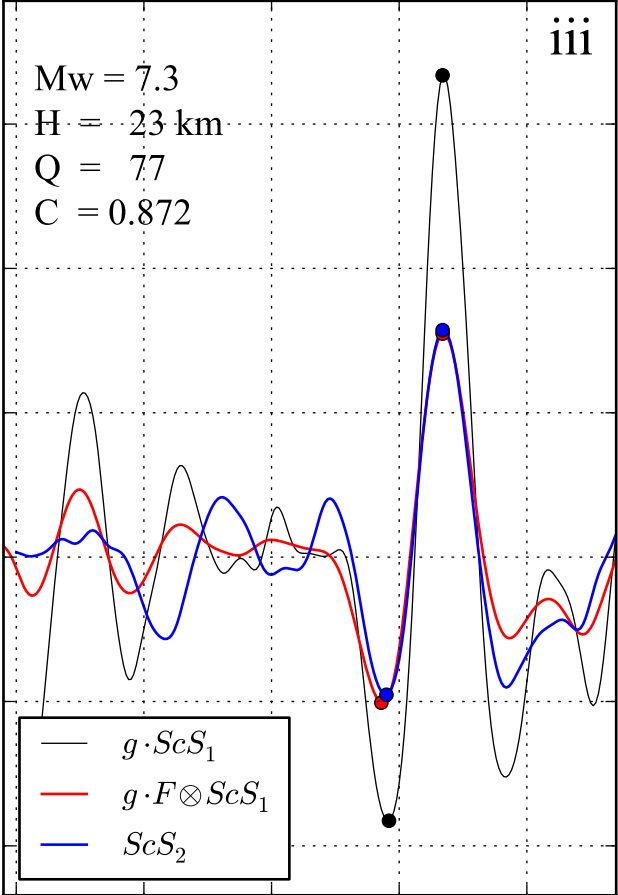
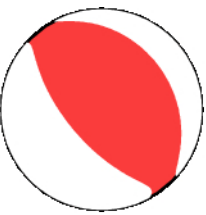
2003.361.15.55.59.022.G.PVC..LH2.SAC (2003/12/27)

ScS_2 - ScS_1 travel time: 941.8 τ : 48.4 s

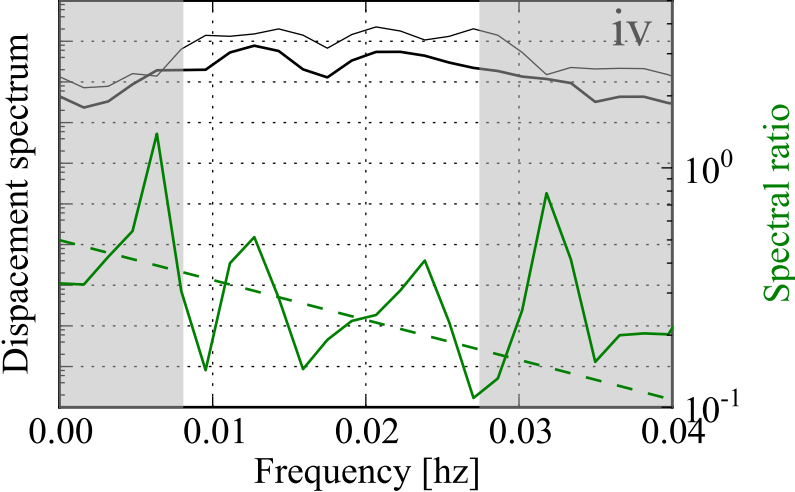
Centroid: -21.990 169.810 23.0 km Mw 7.3

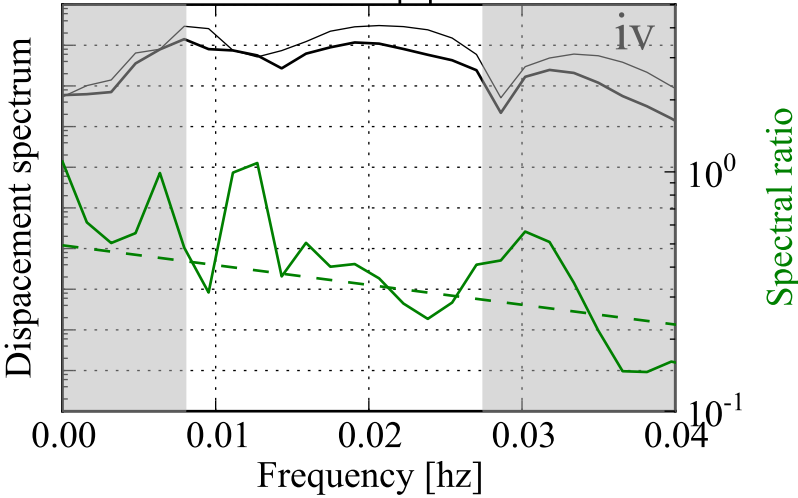
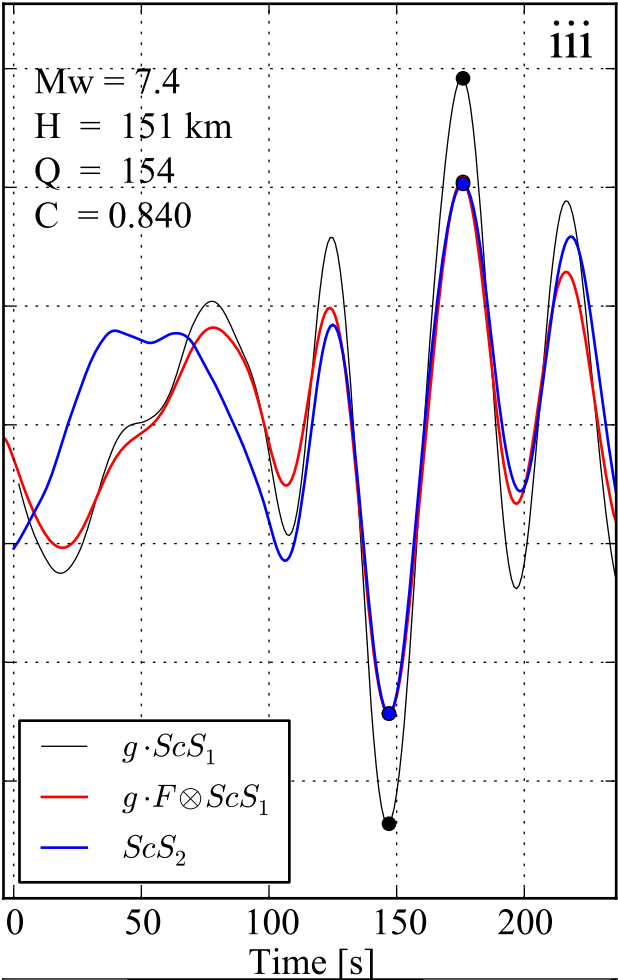
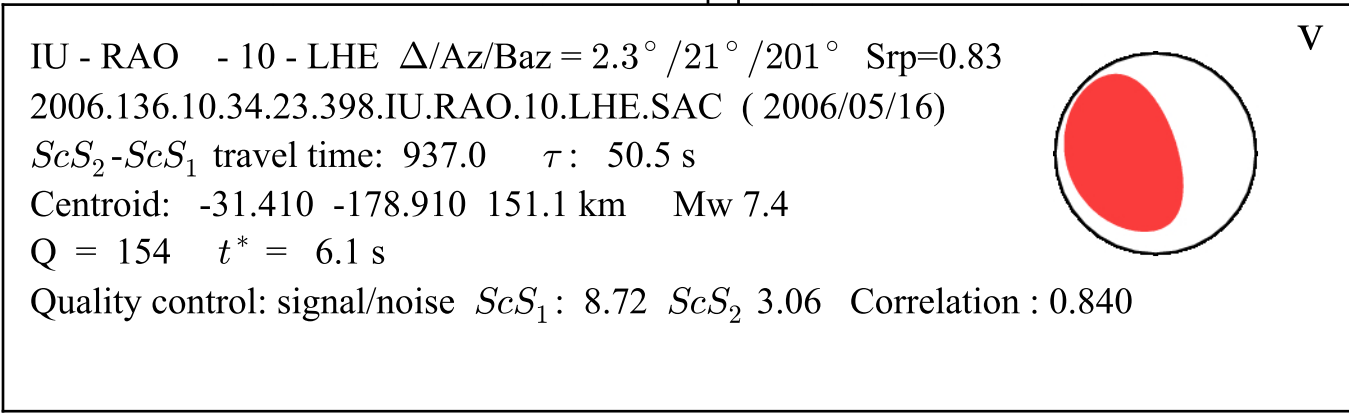
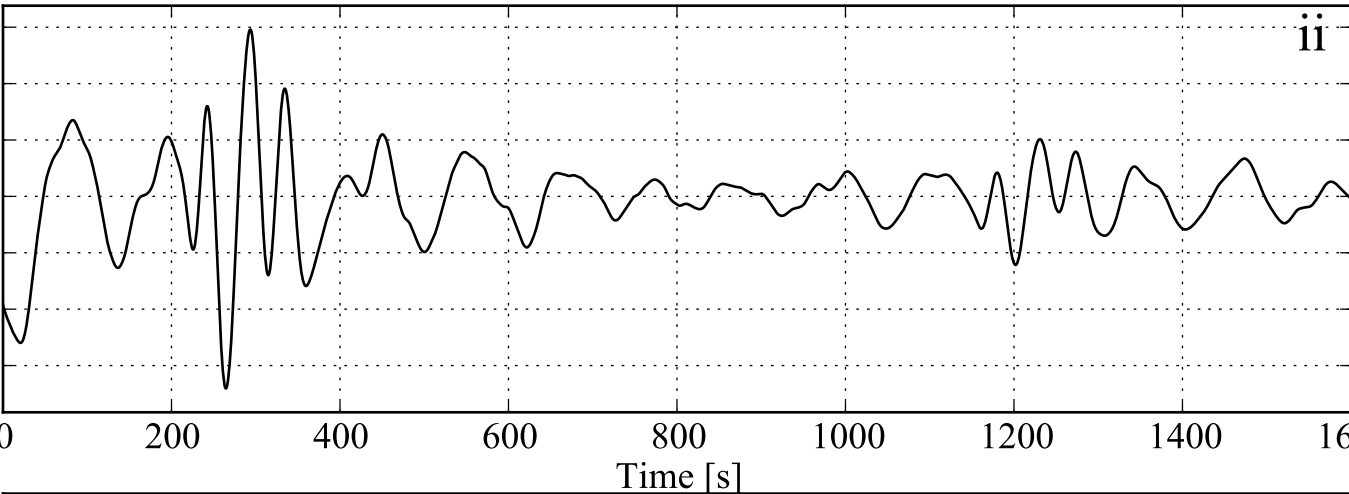
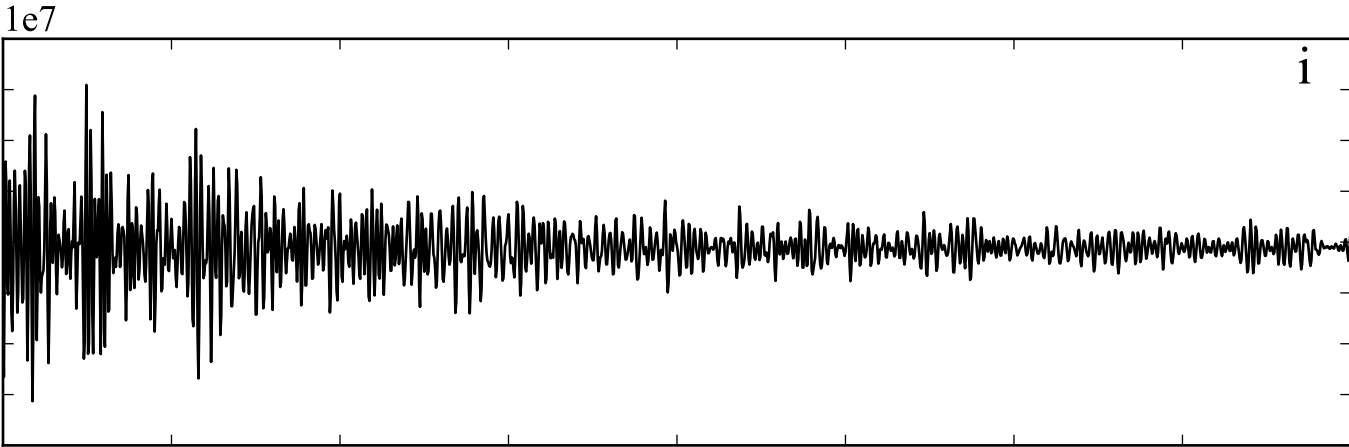
$Q = 77$ $t^* = 12.2$ s

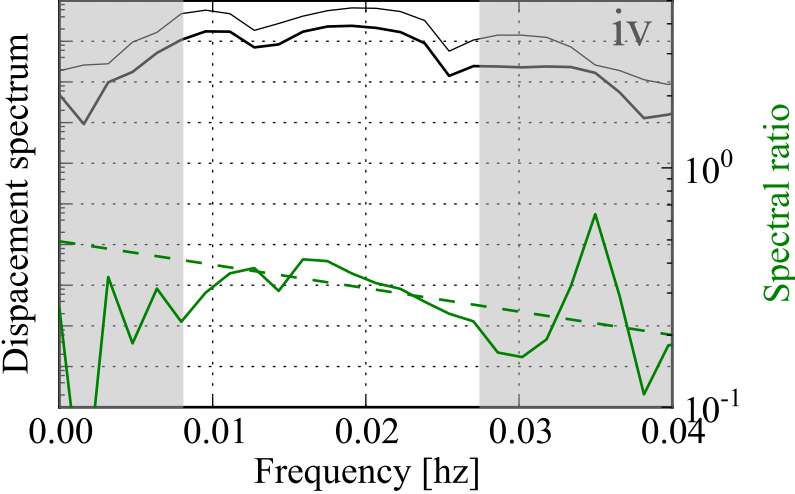
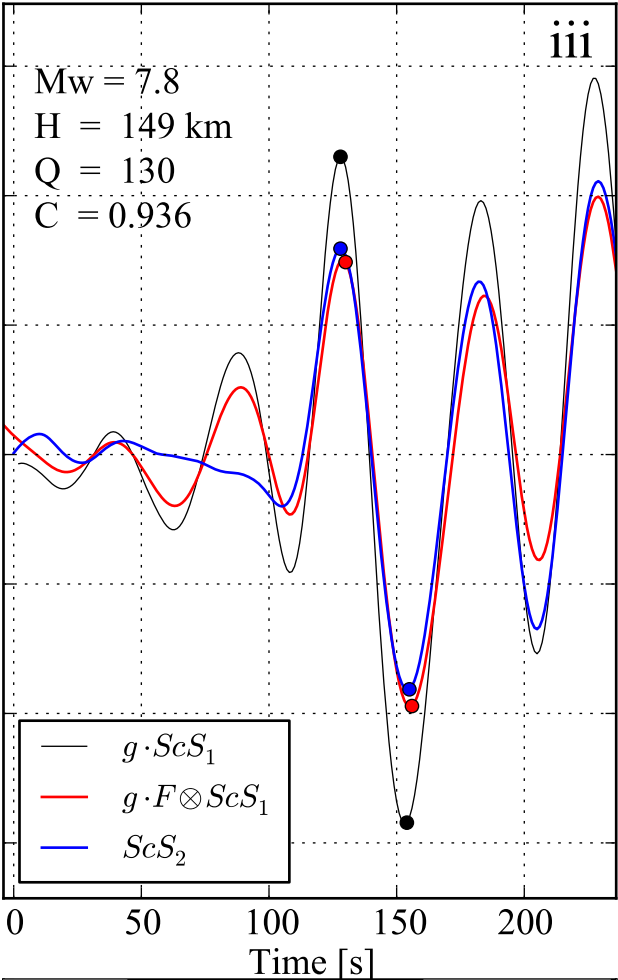
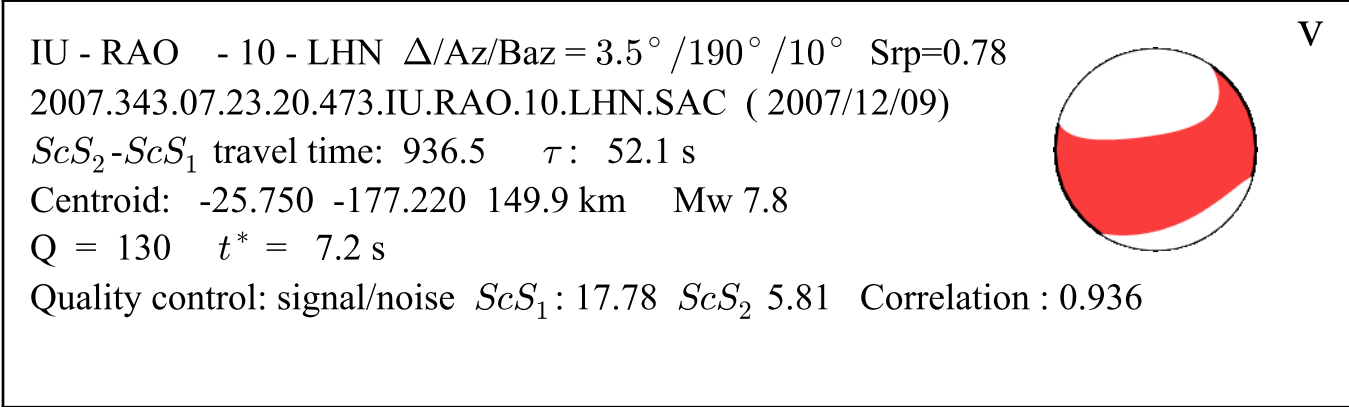
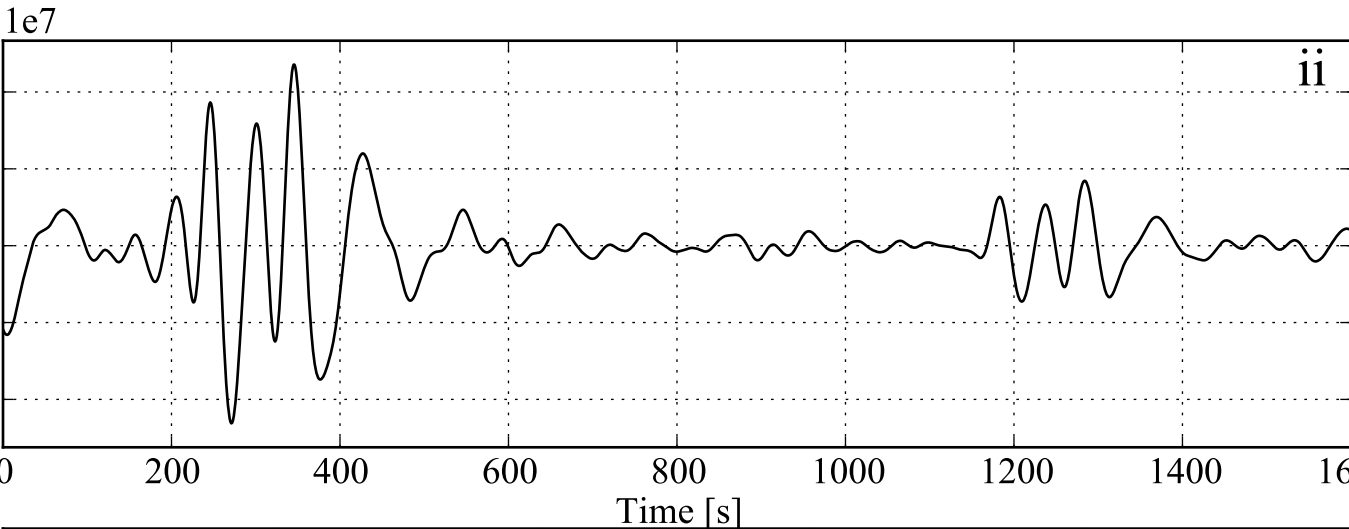
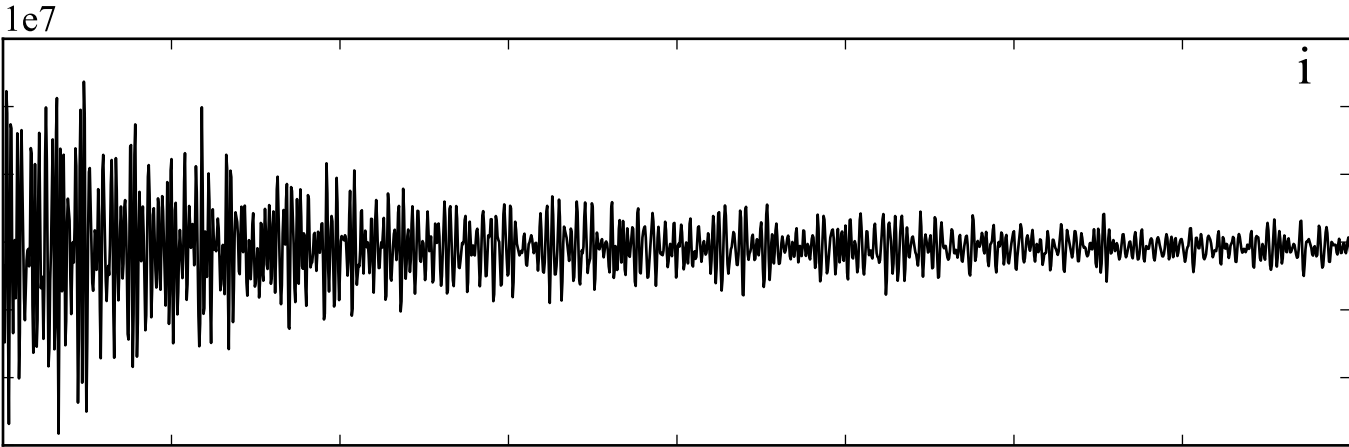
Quality control: signal/noise ScS_1 : 13.79 ScS_2 3.37 Correlation : 0.872

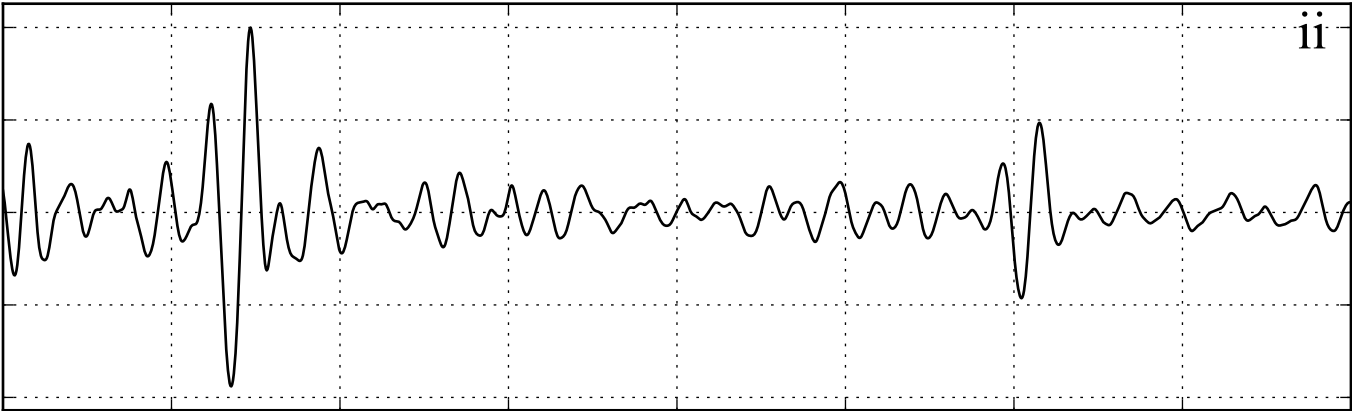
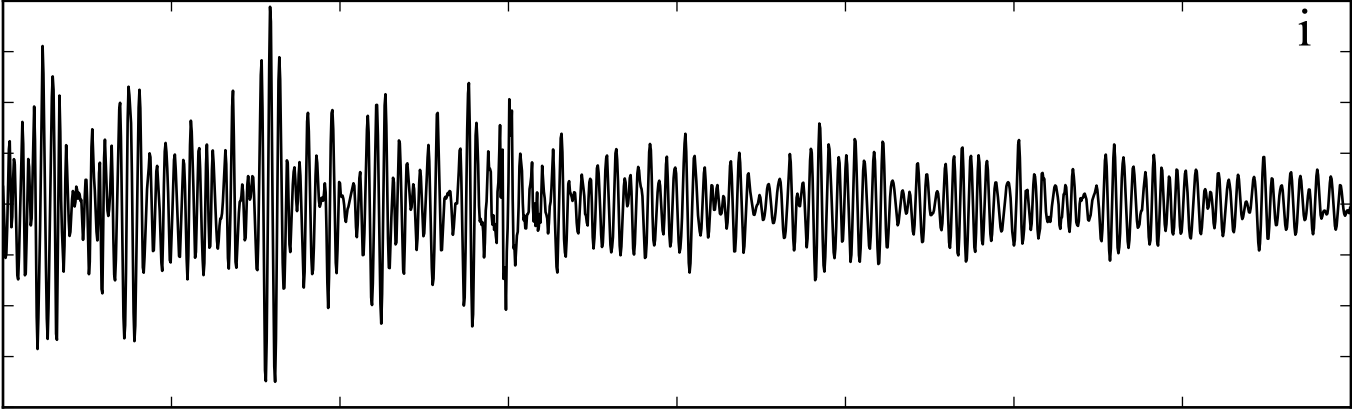


Time [s]

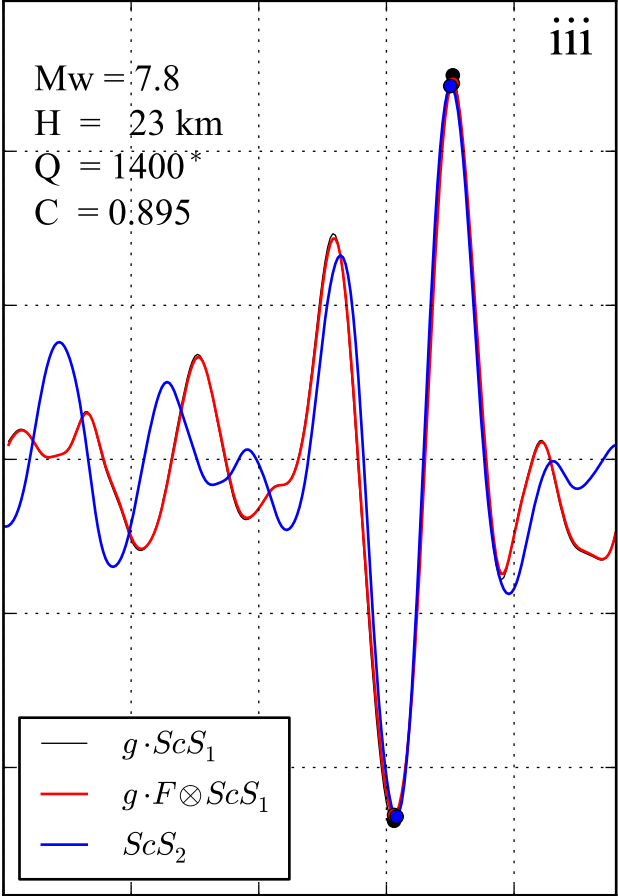
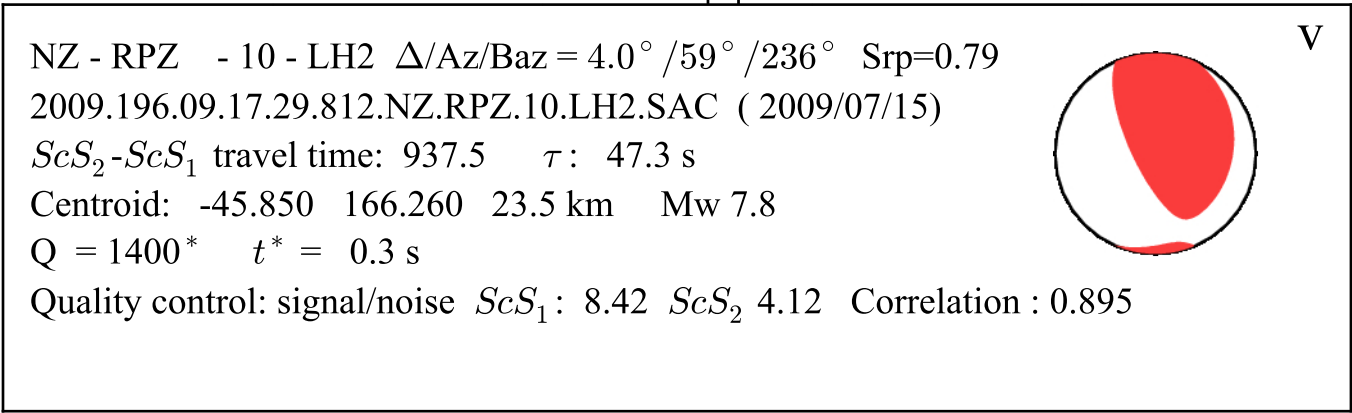




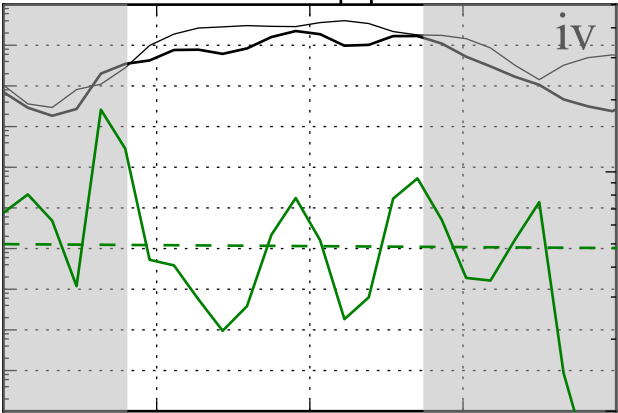




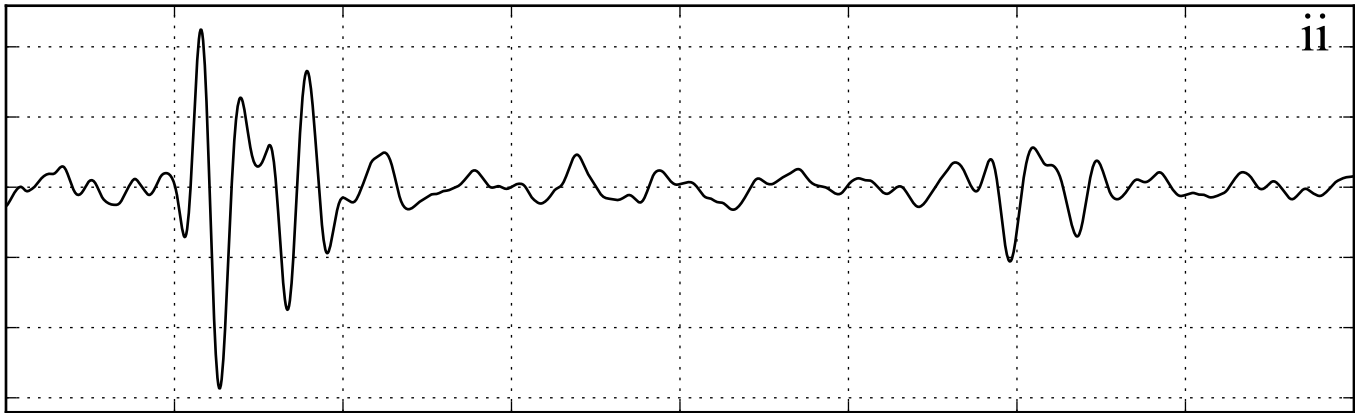
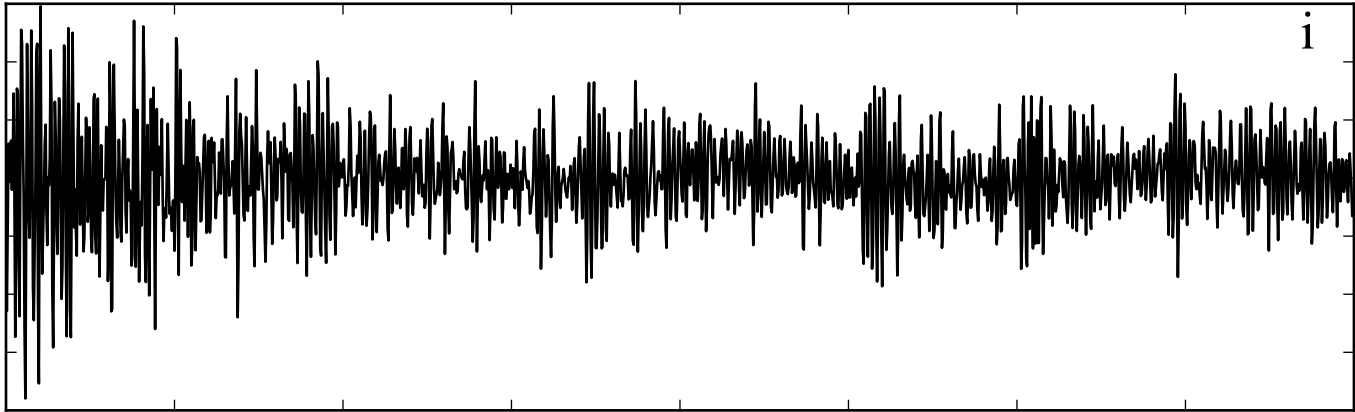
Time [s]



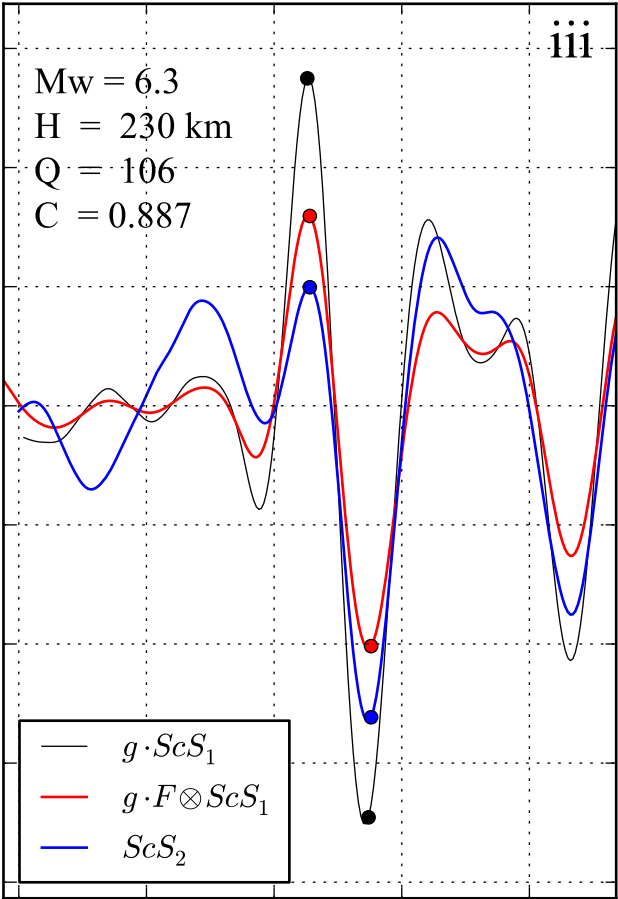
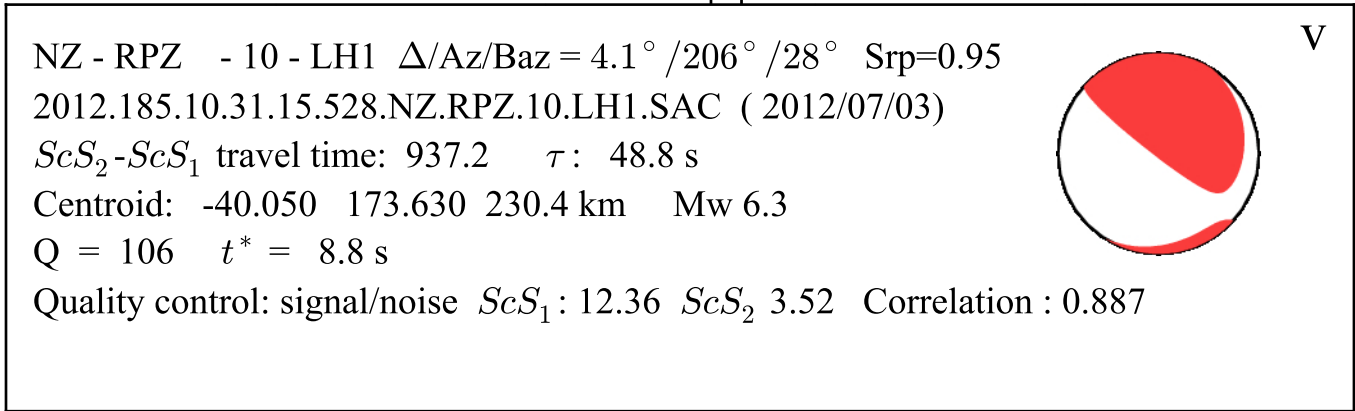
Time [s]



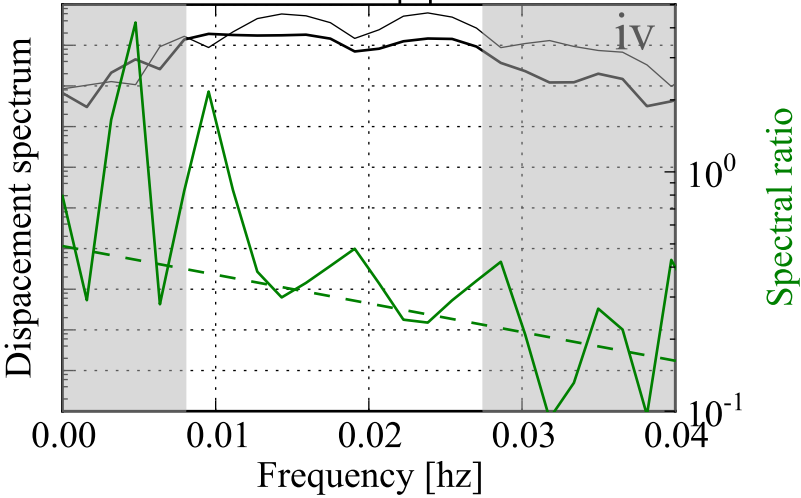
Frequency [hz]

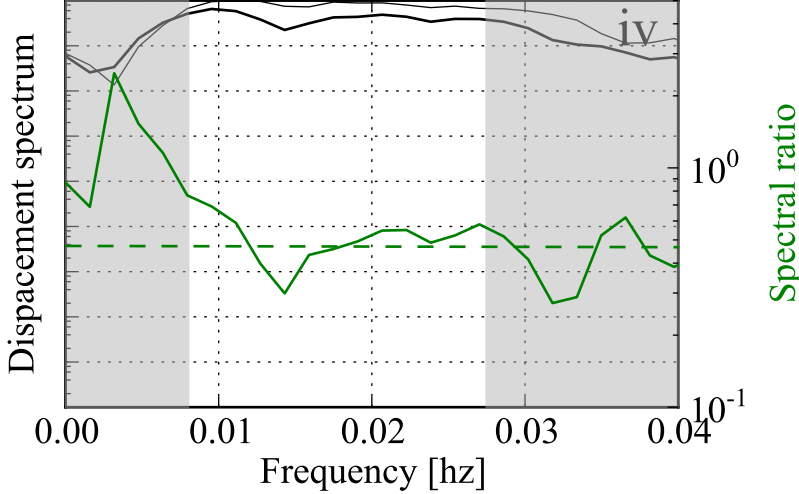
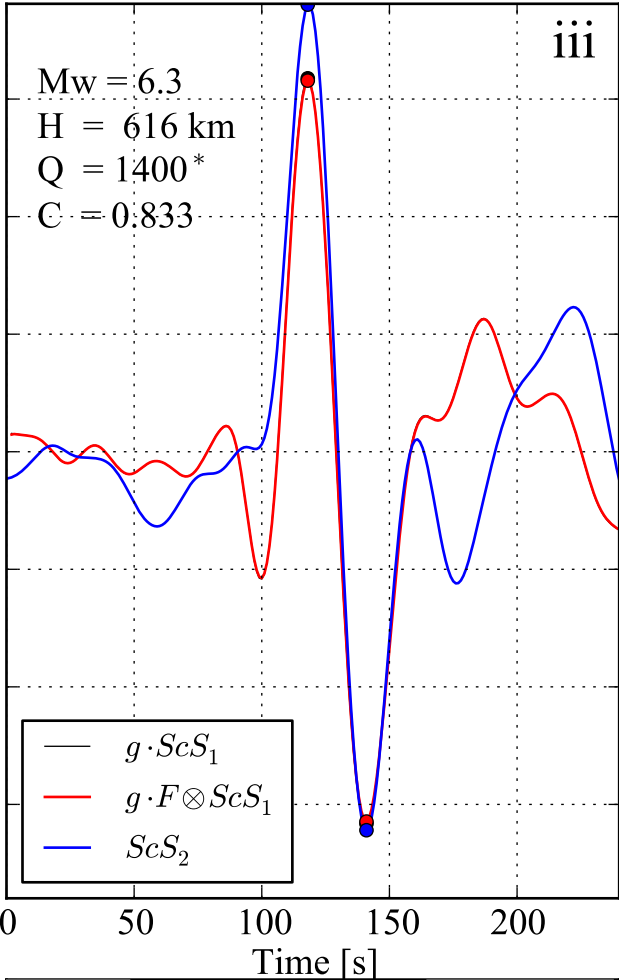
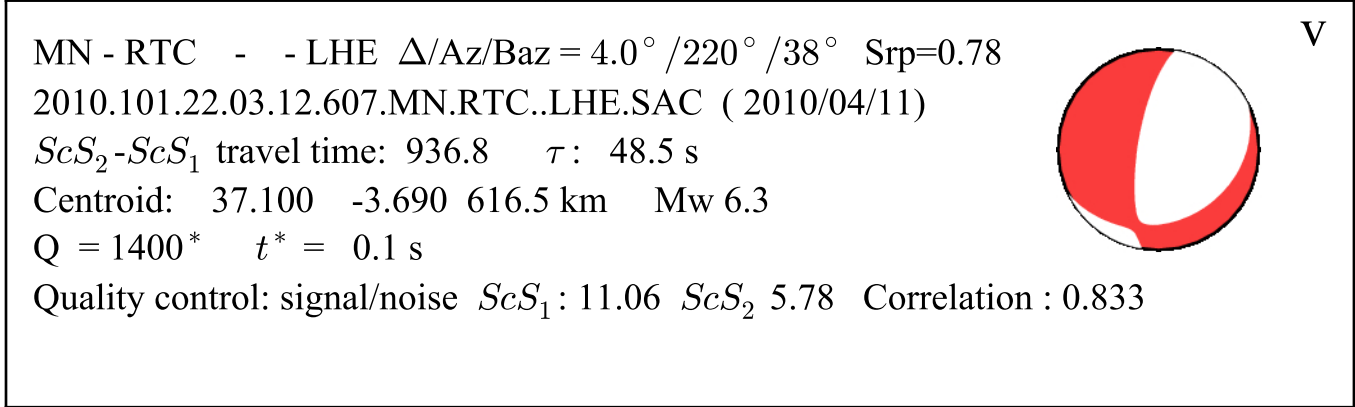
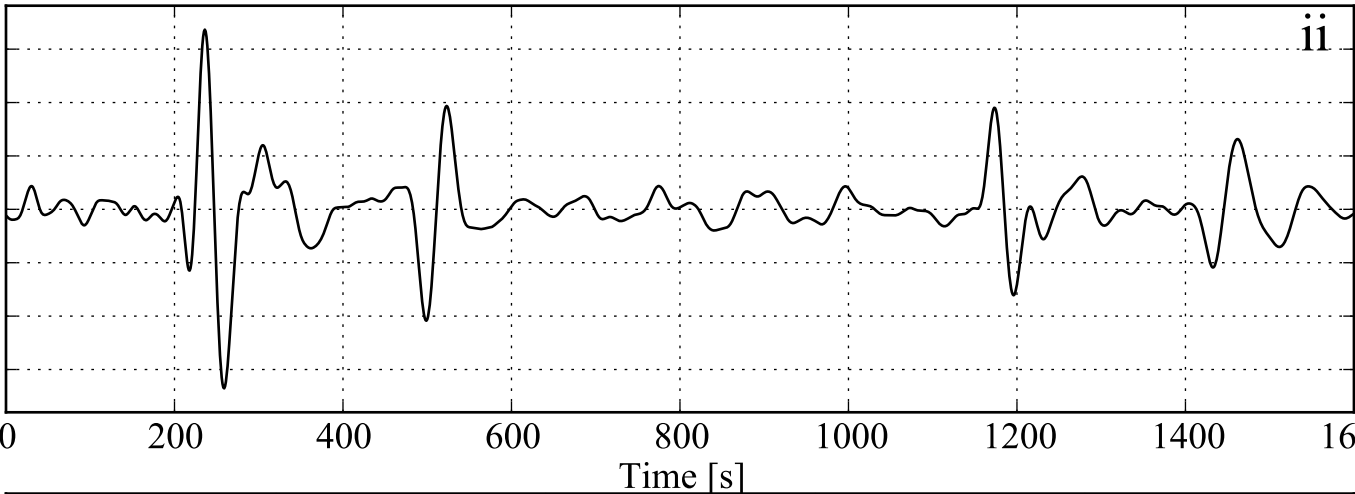
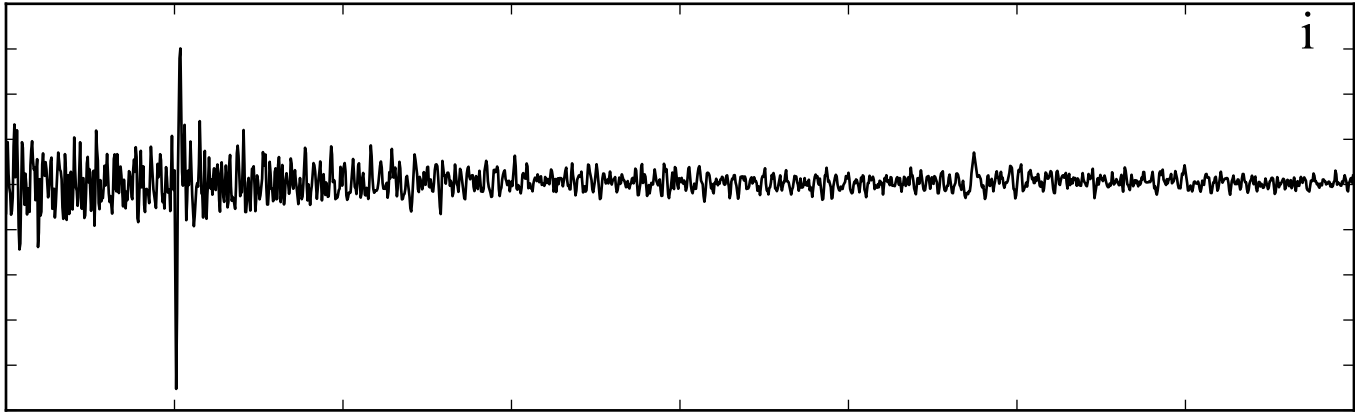


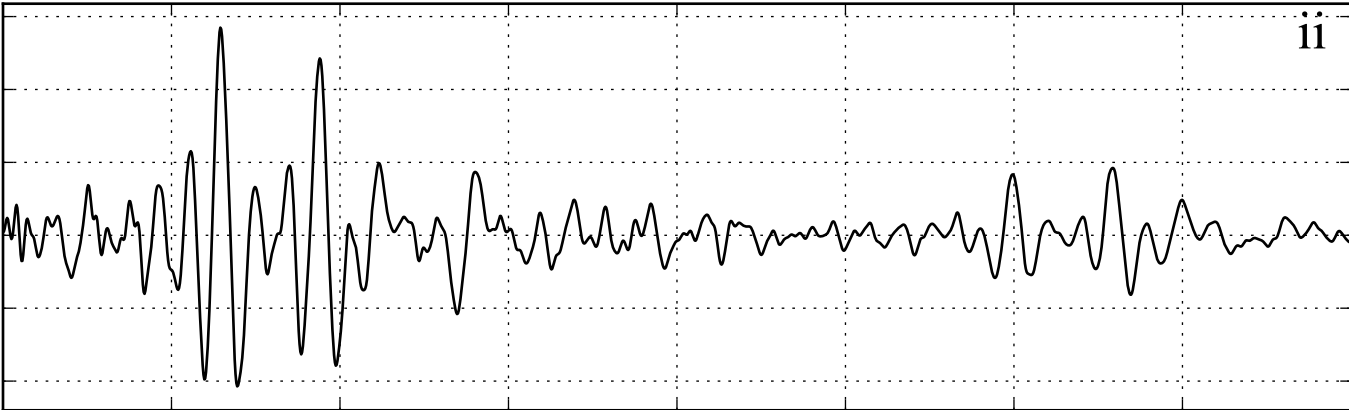
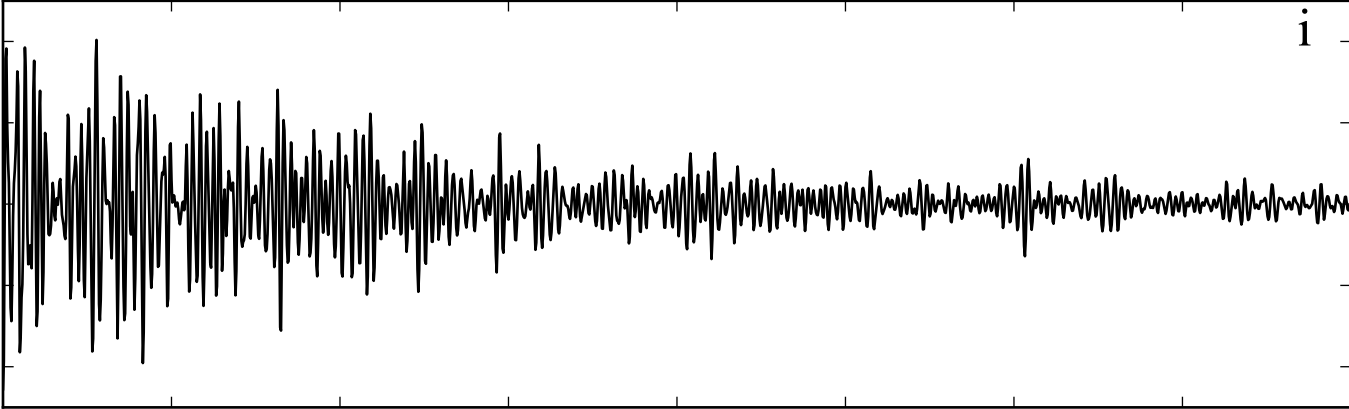
Time [s]



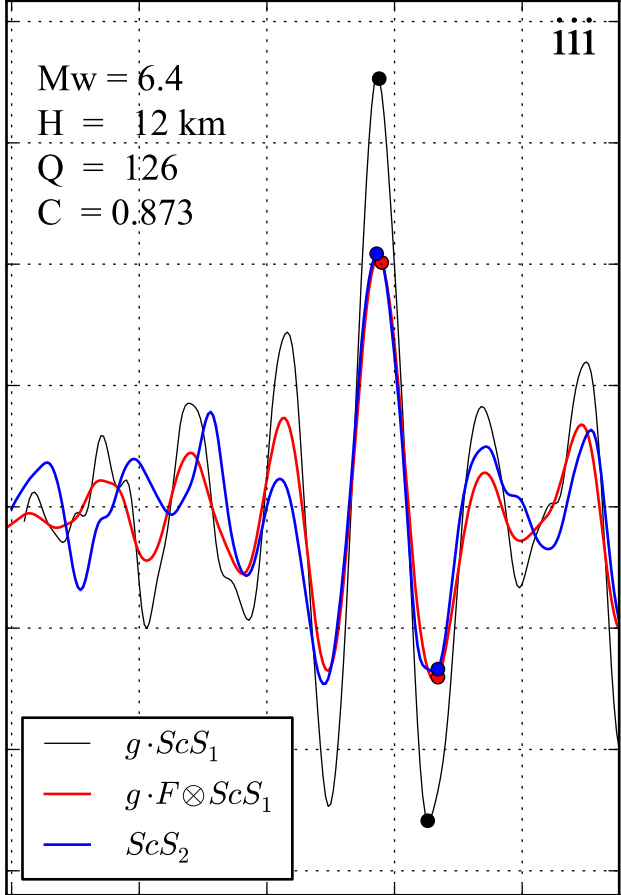
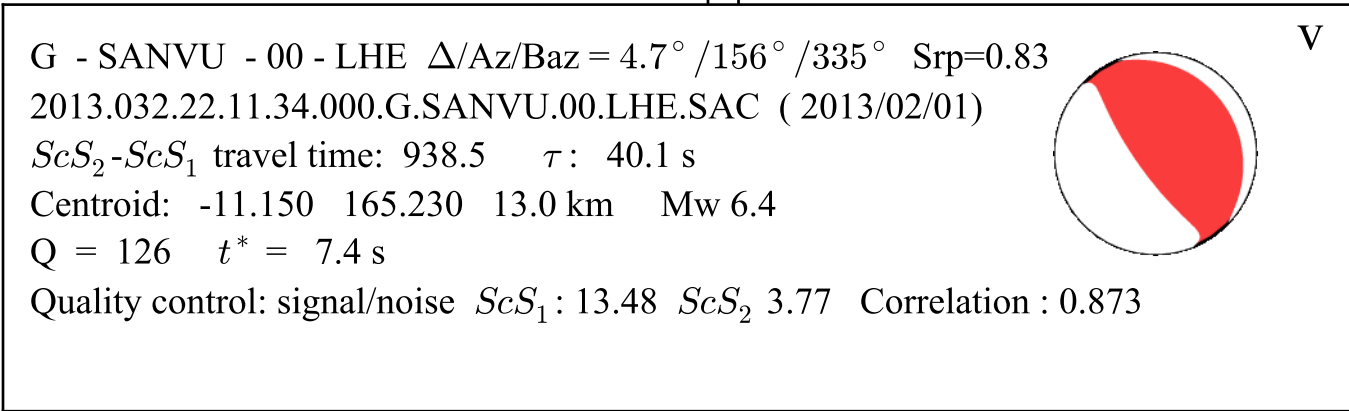
Time [s]



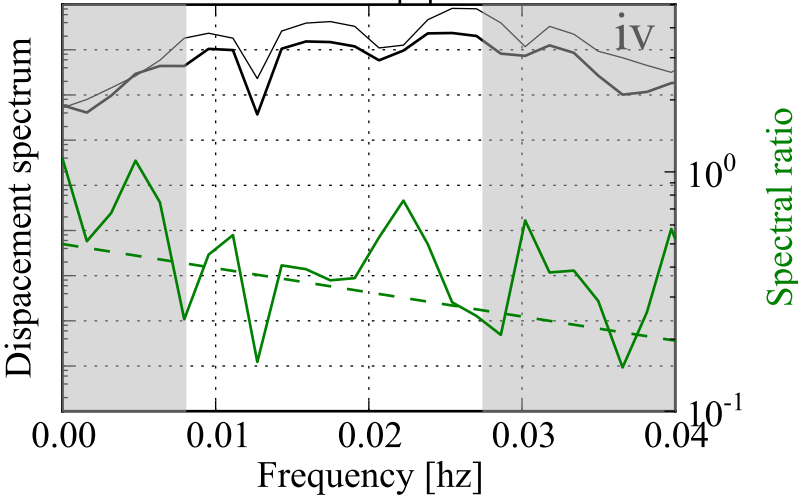


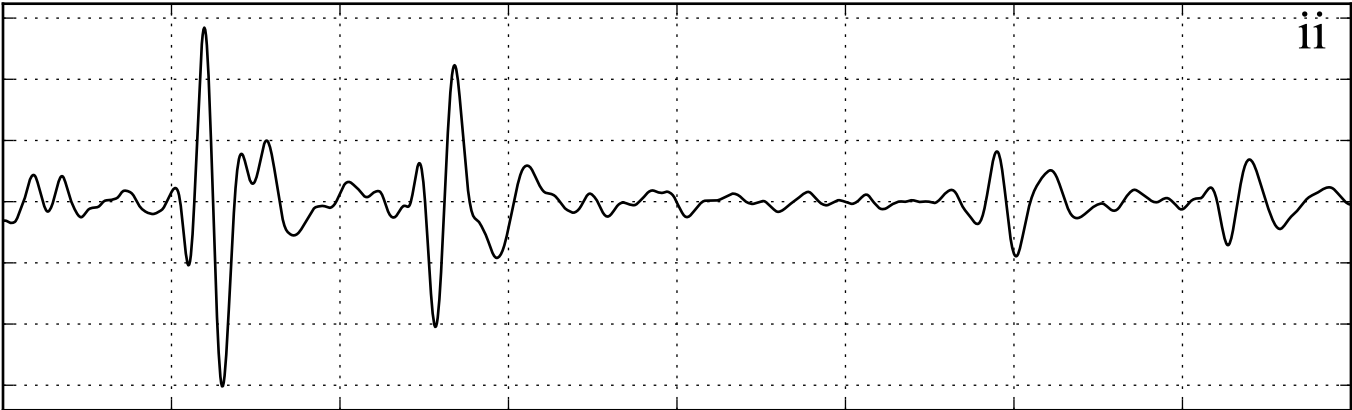
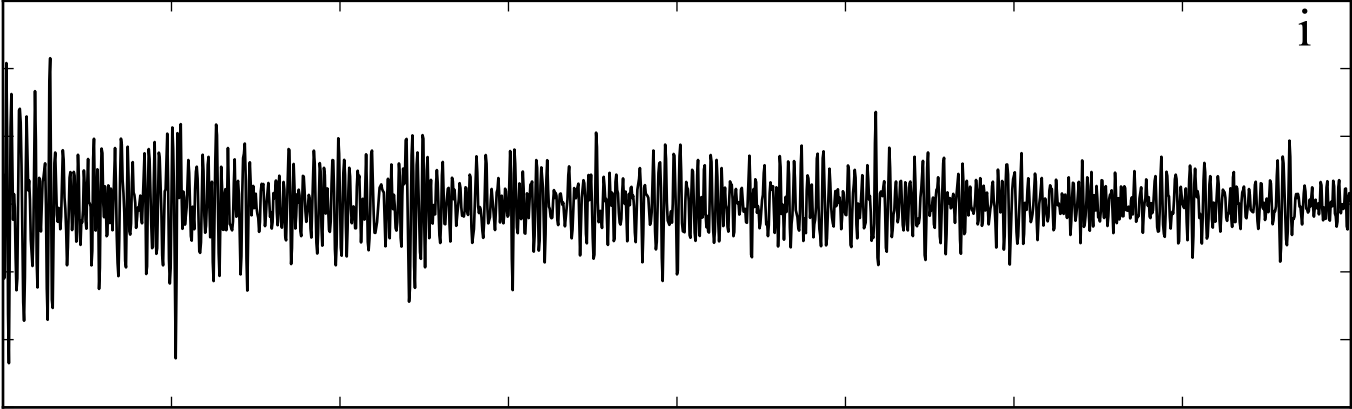


Time [s]

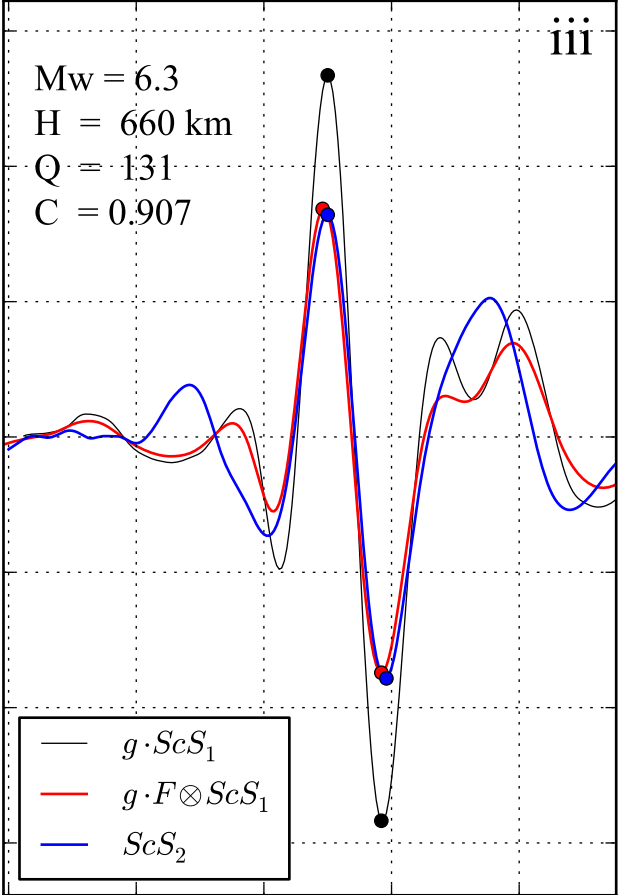
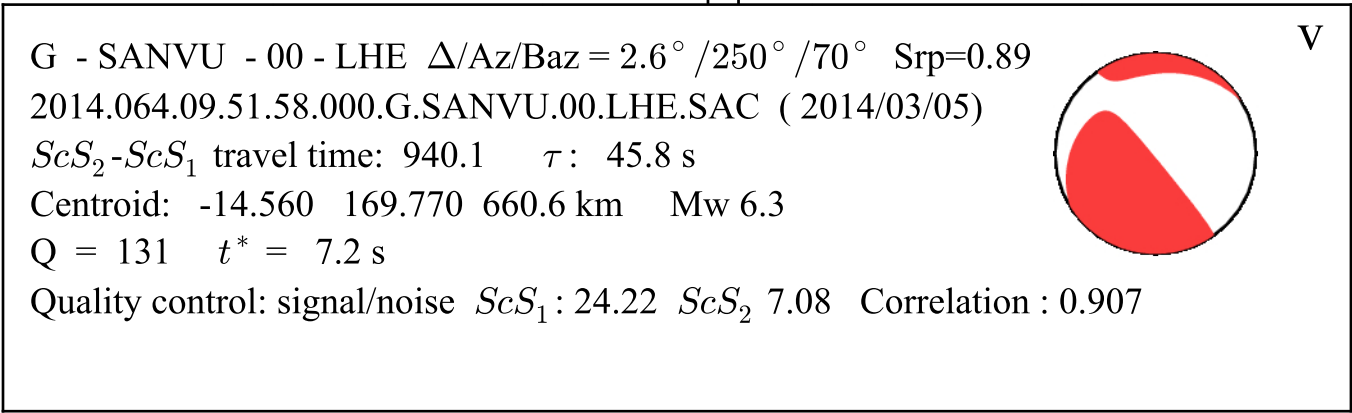


Time [s]

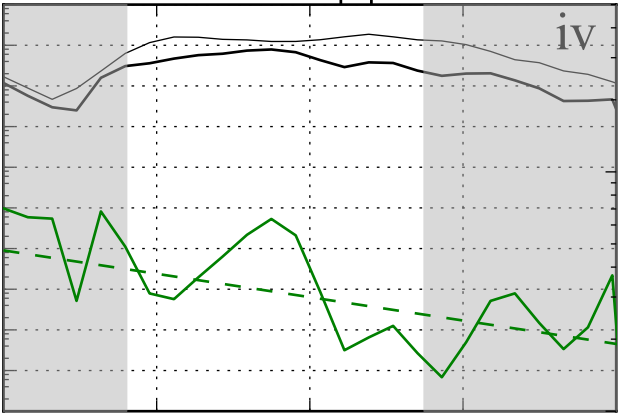




Time [s]

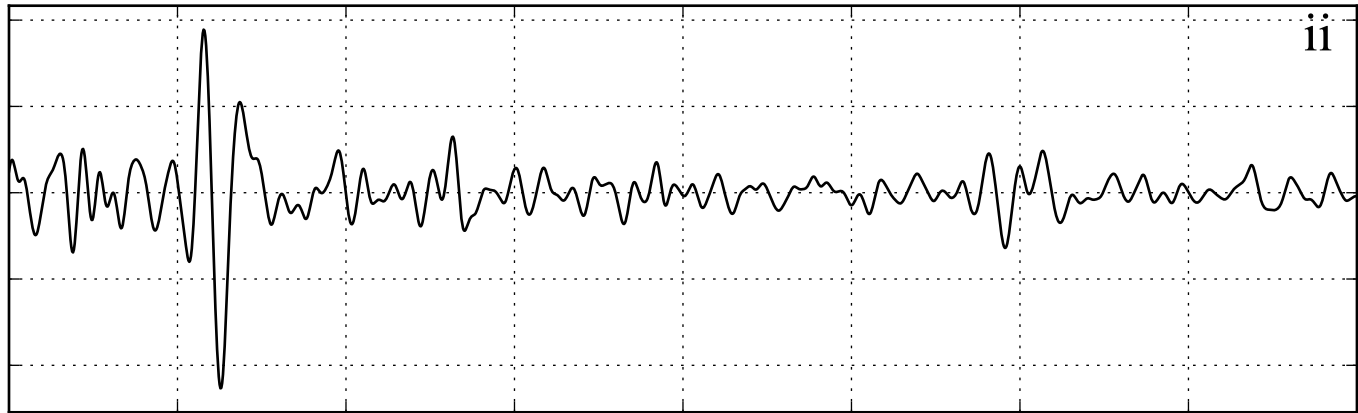
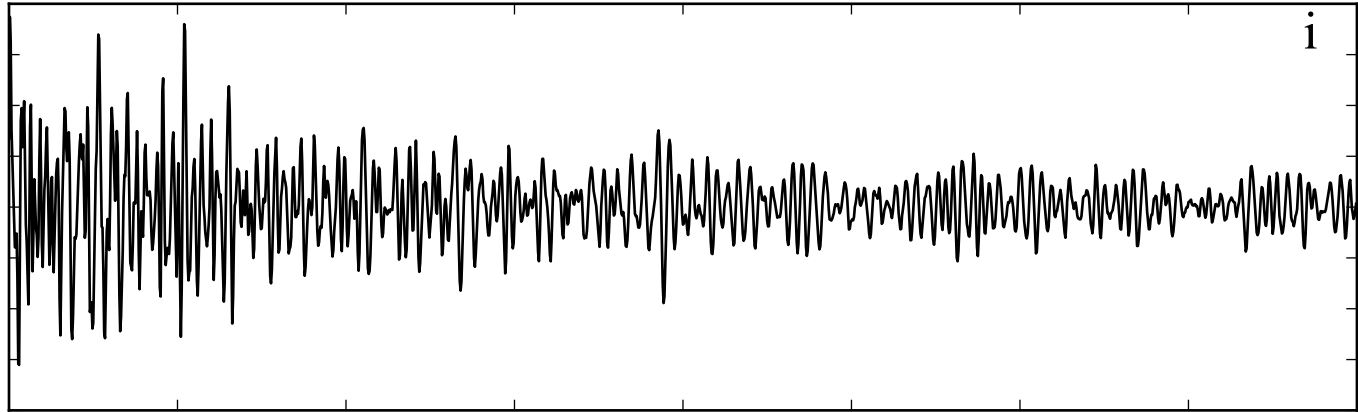


Time [s]

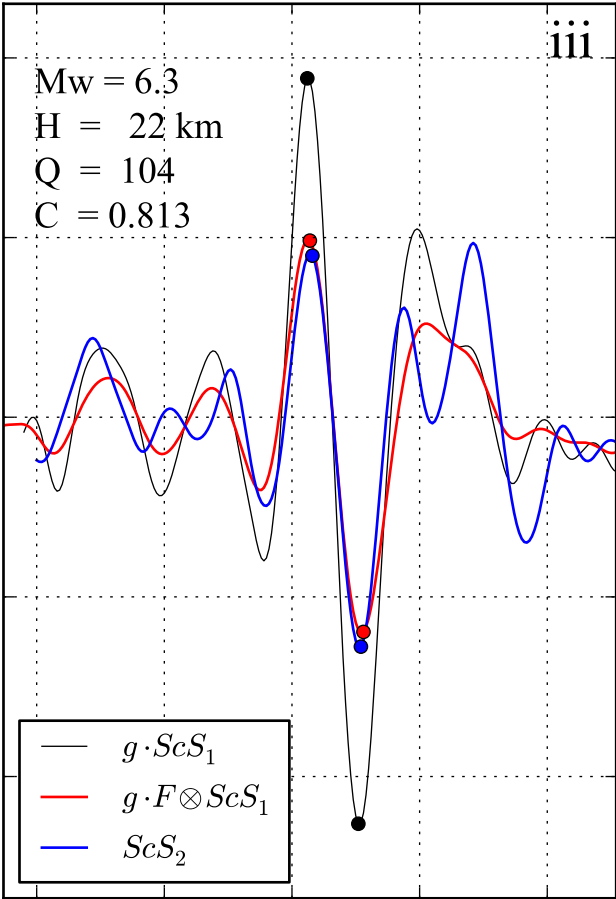
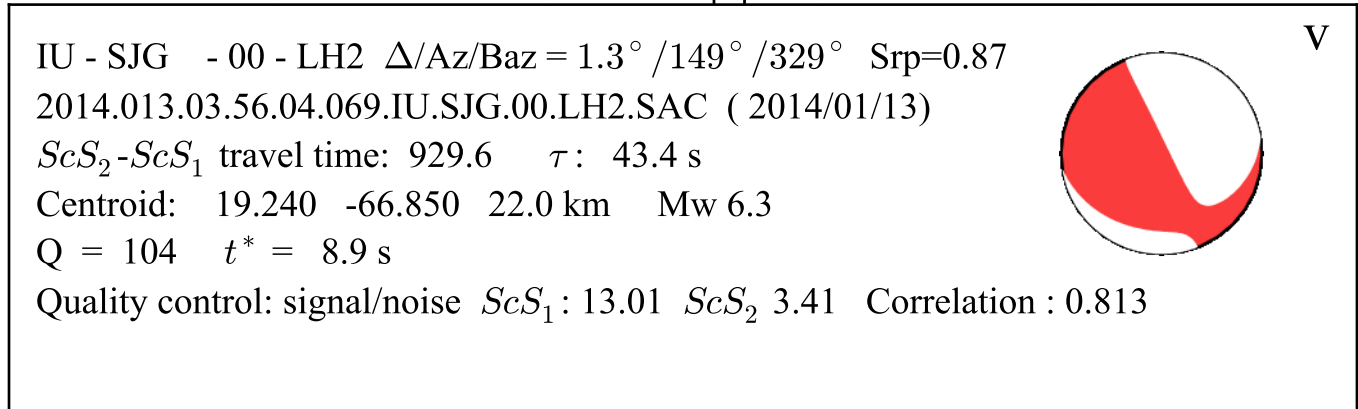


Frequency [hz]

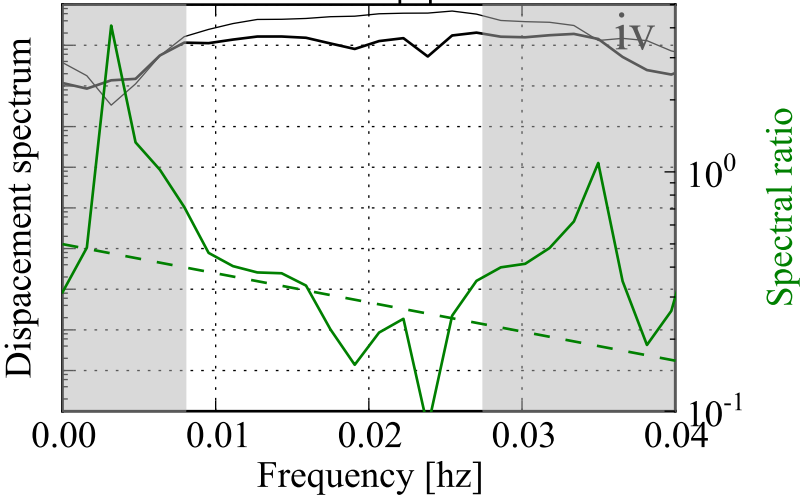
Spectral ratio

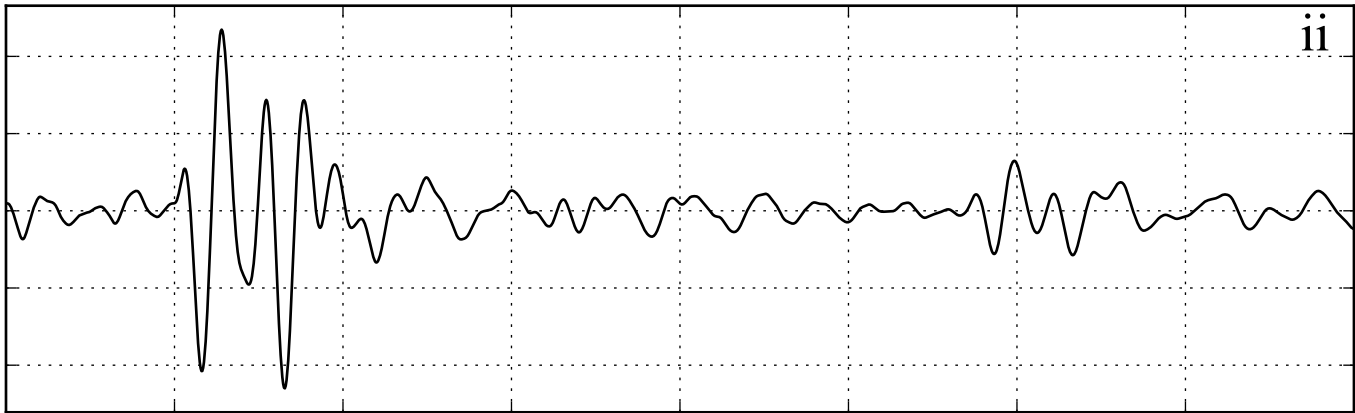
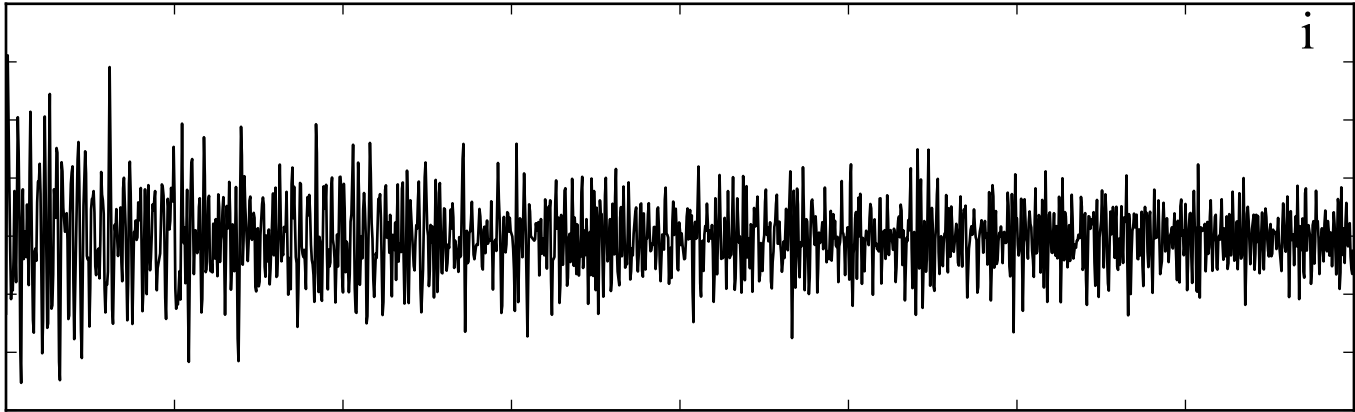


Time [s]

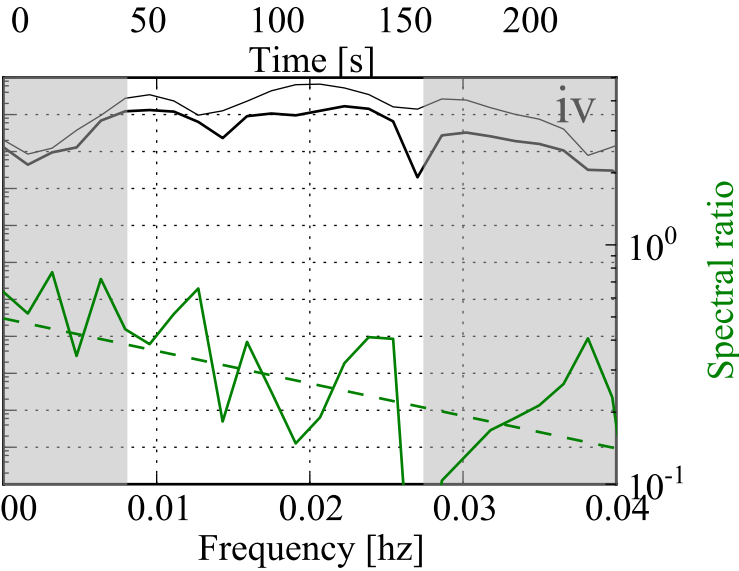
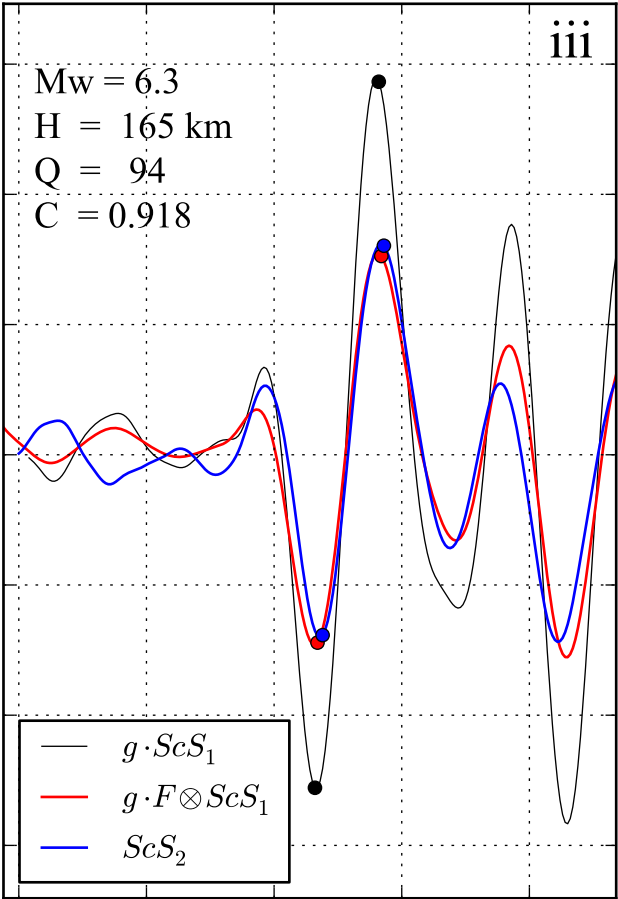
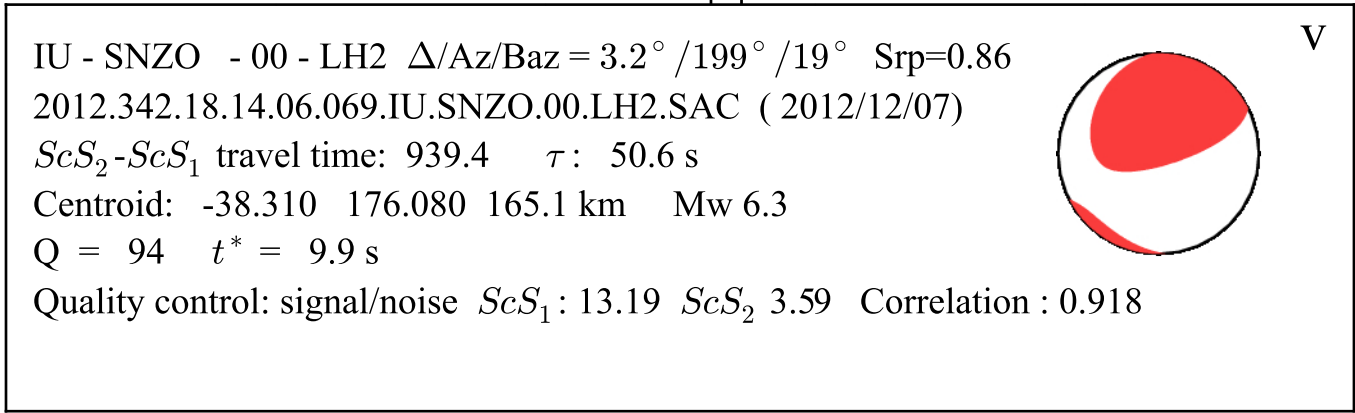


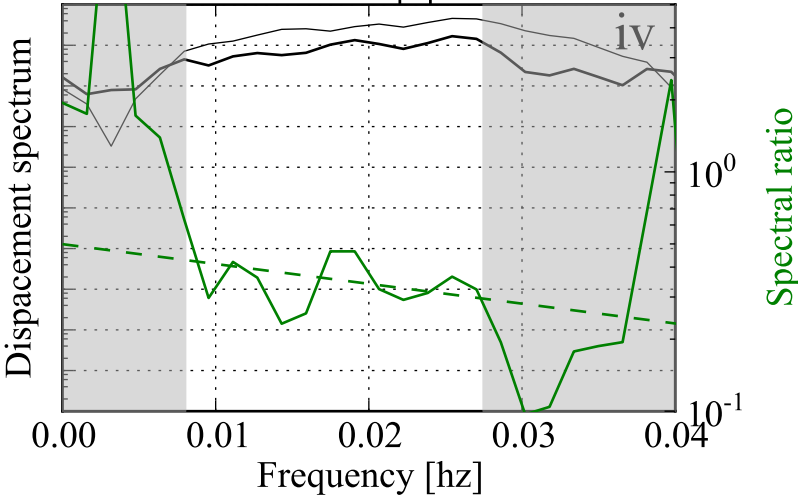
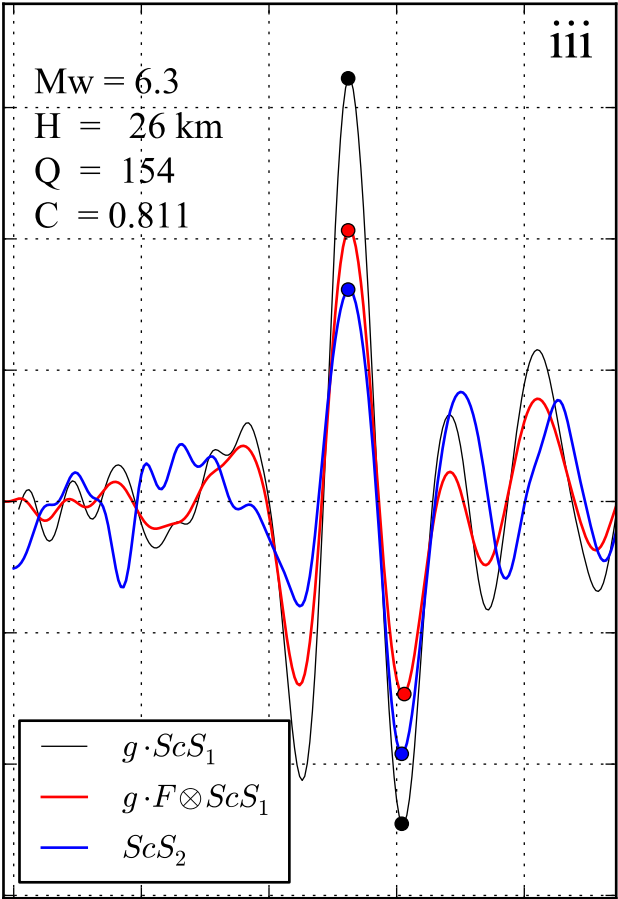
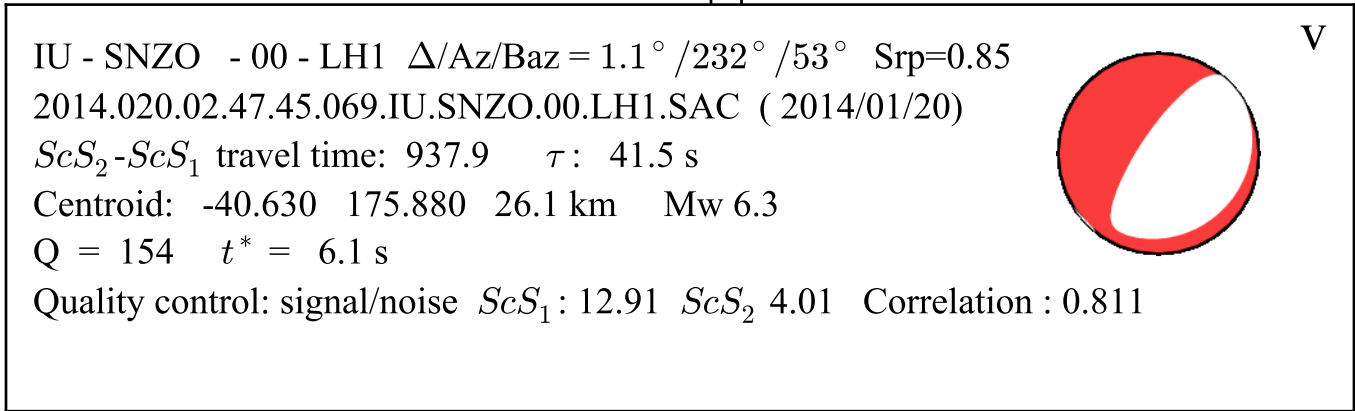
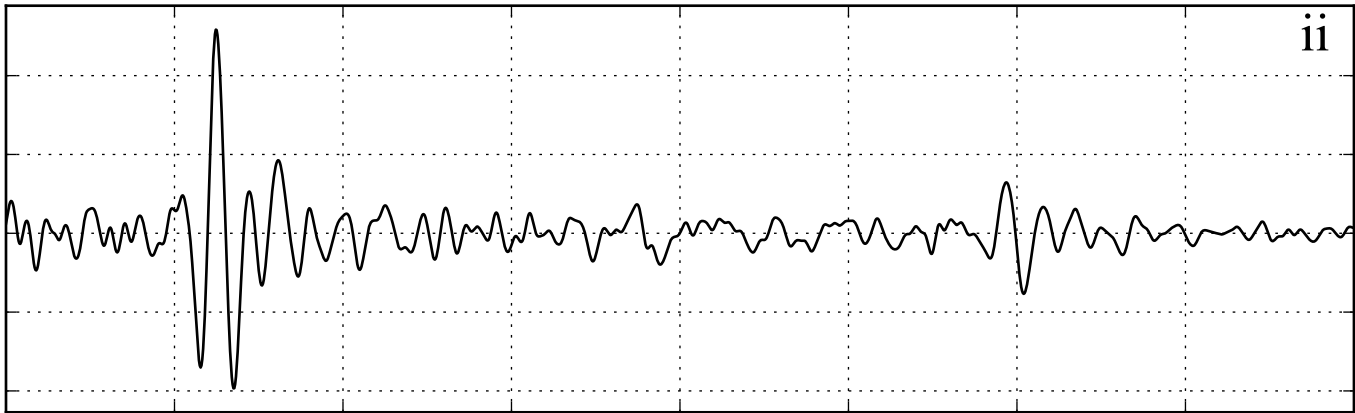
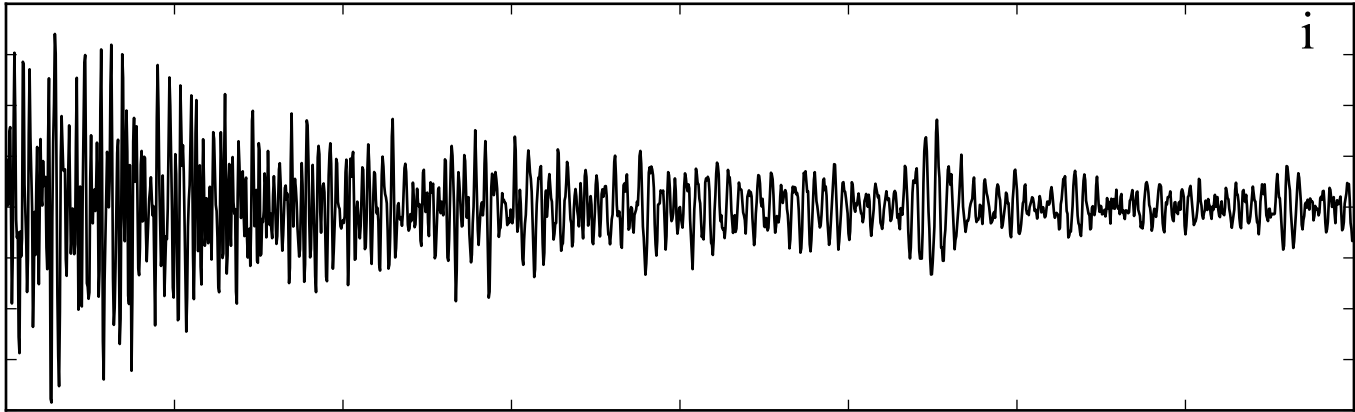
Time [s]

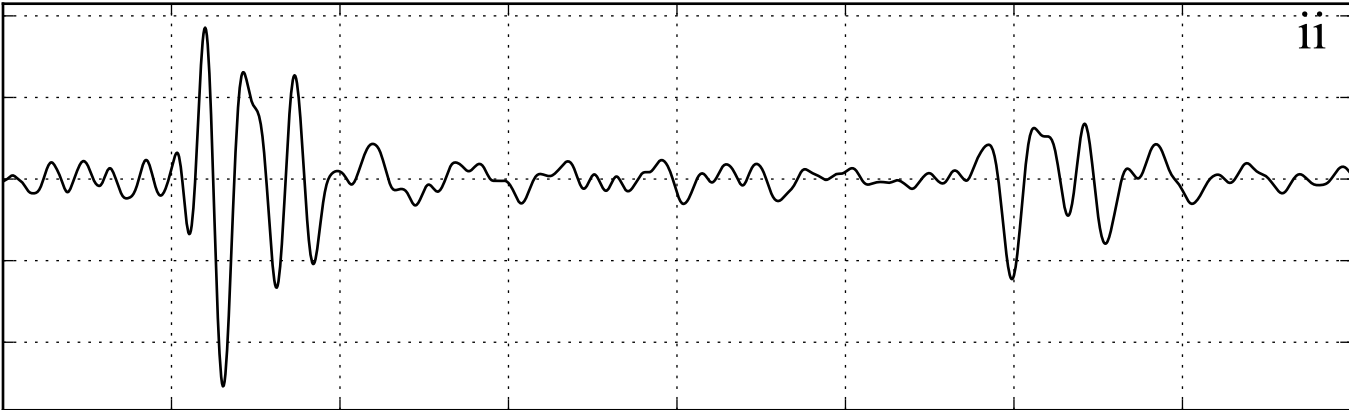
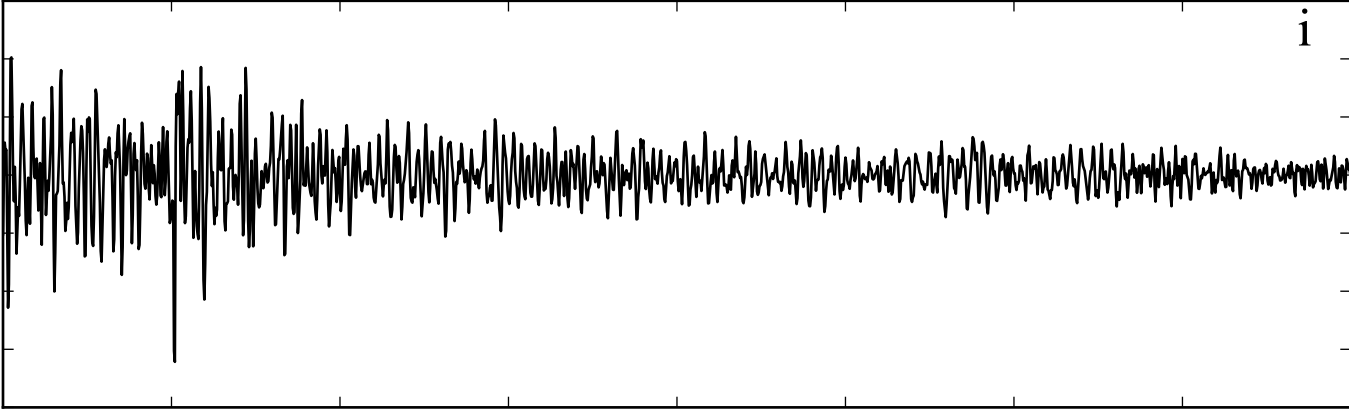




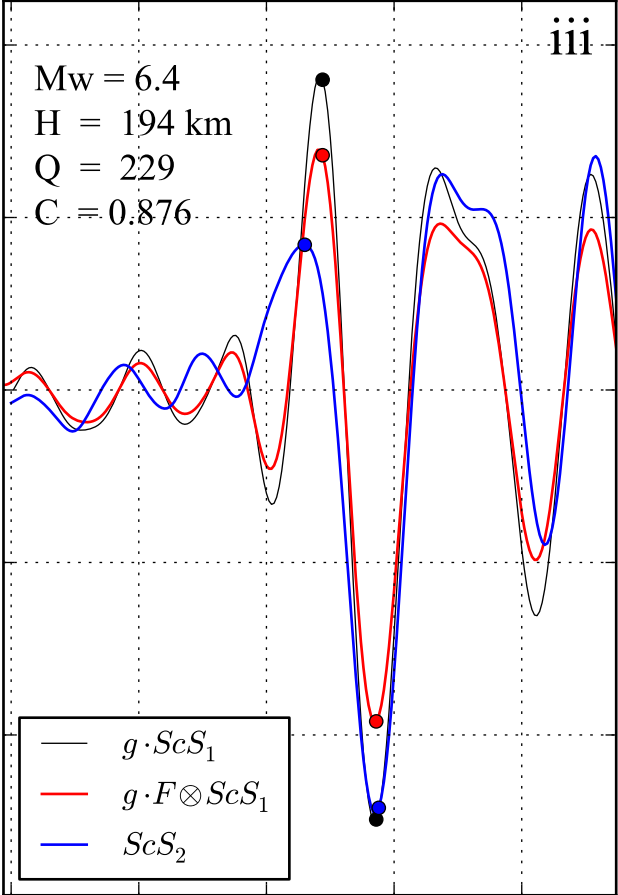
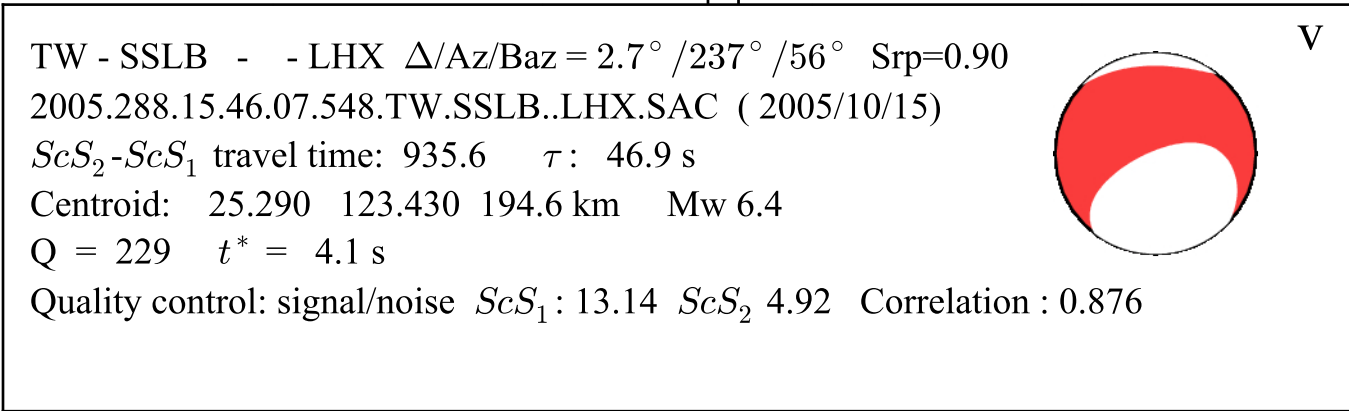
Time [s]



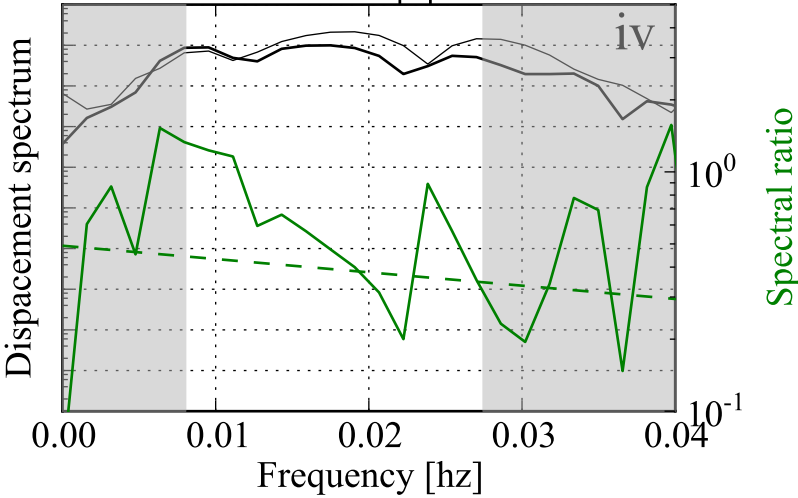


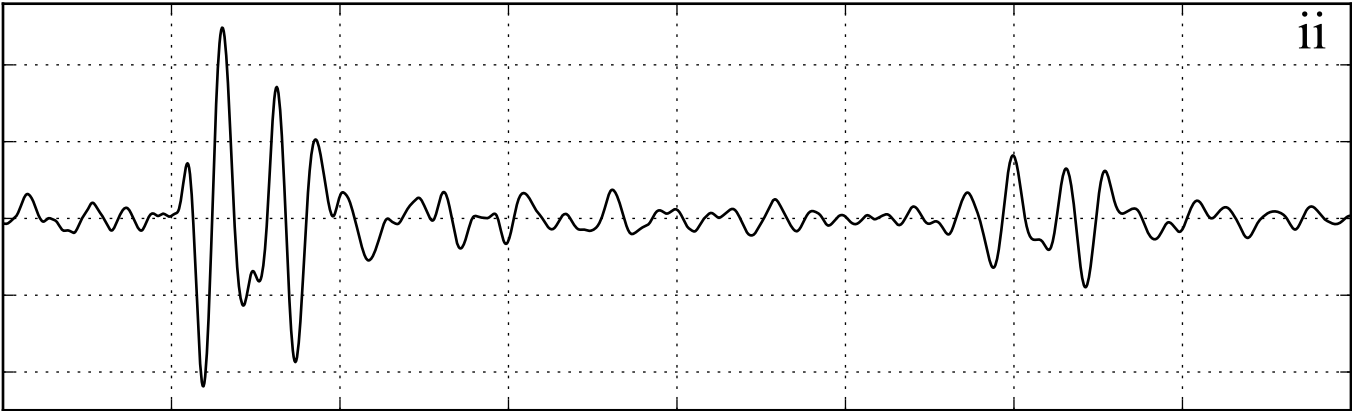
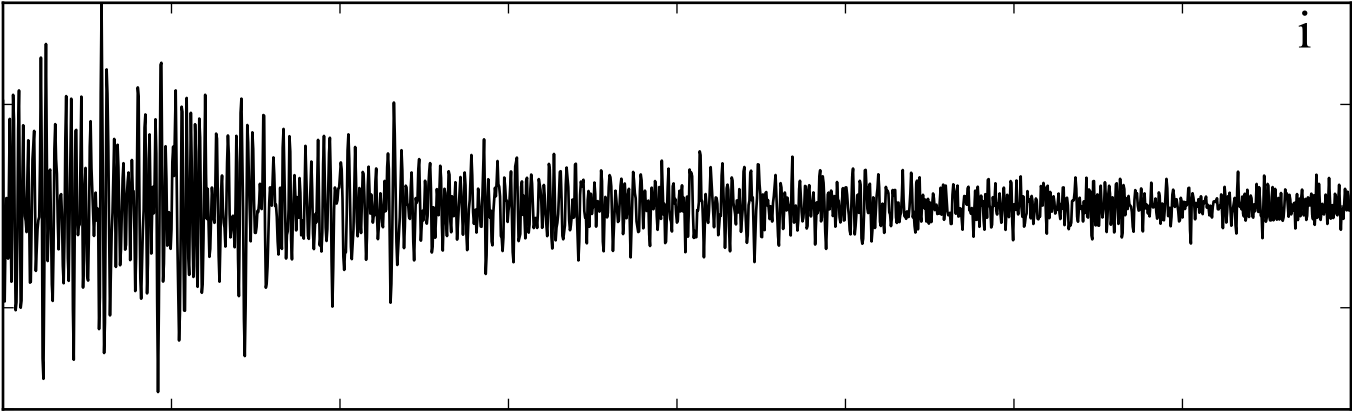


Time [s]

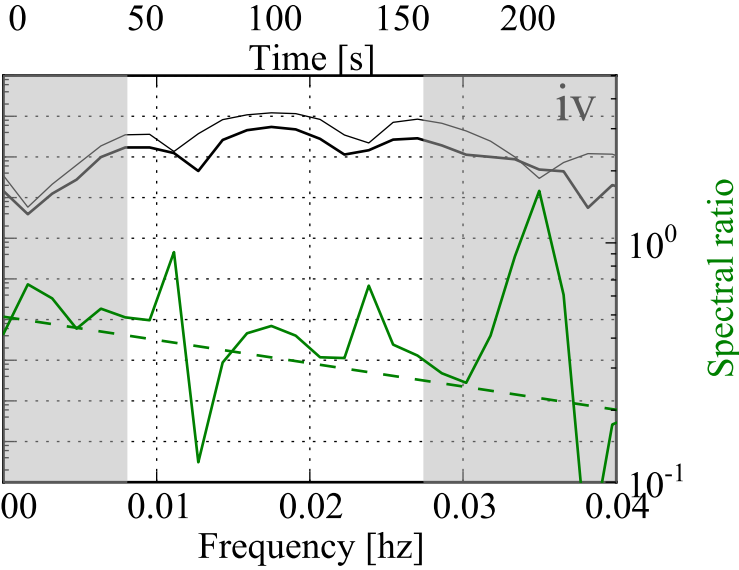
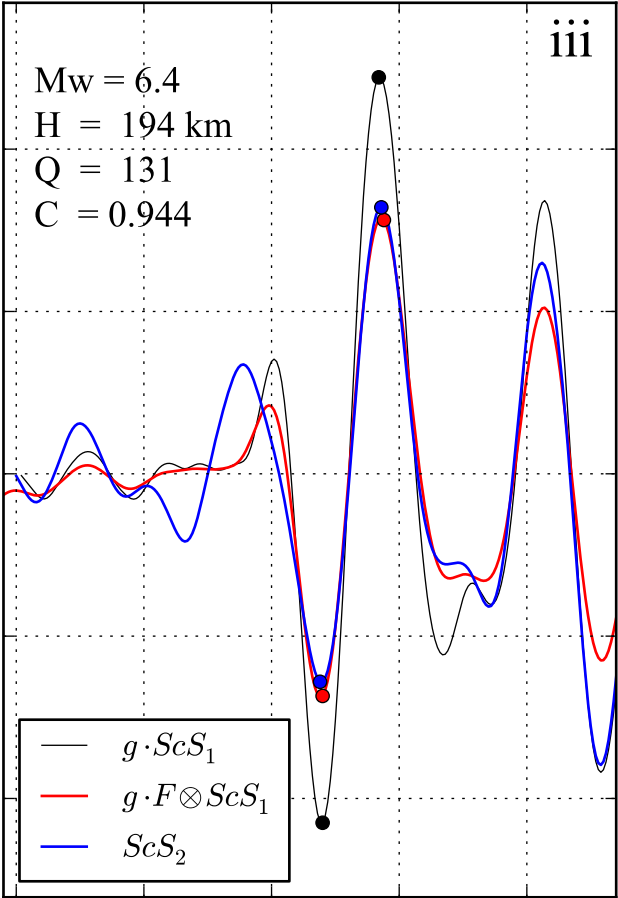
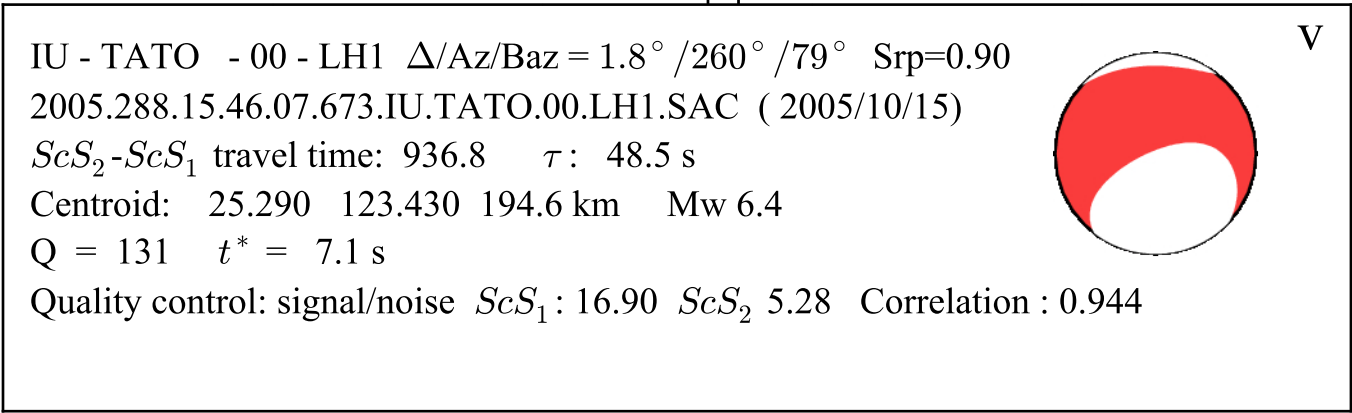


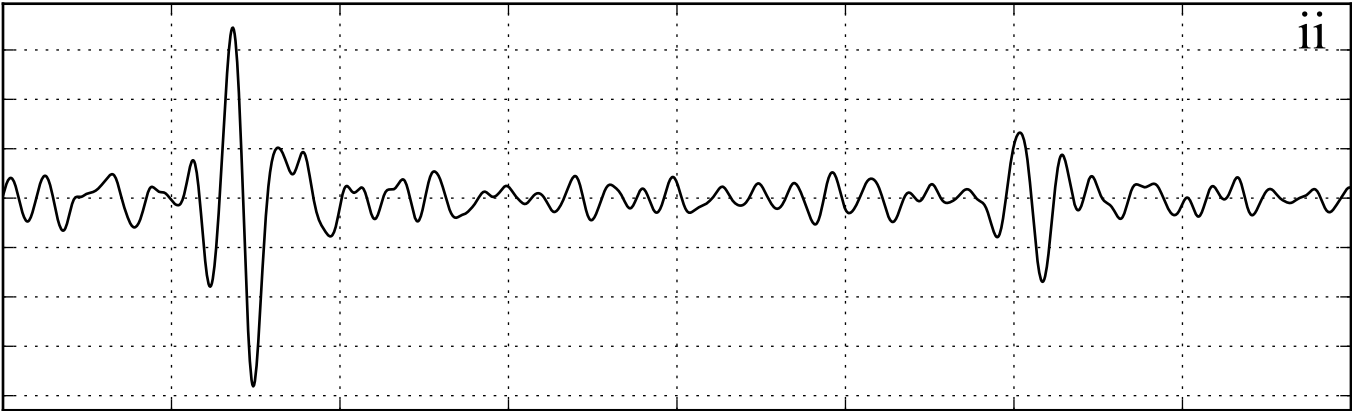
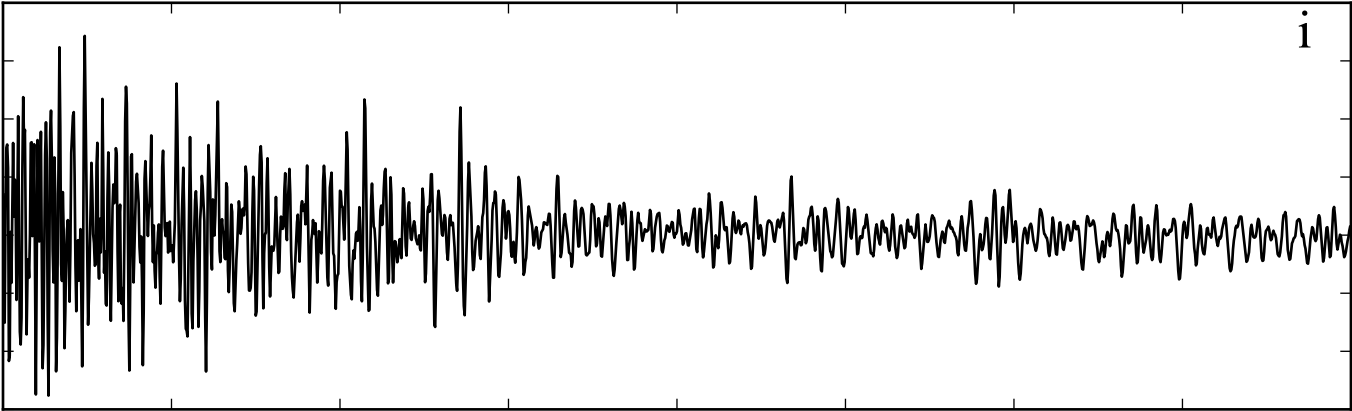
Time [s]



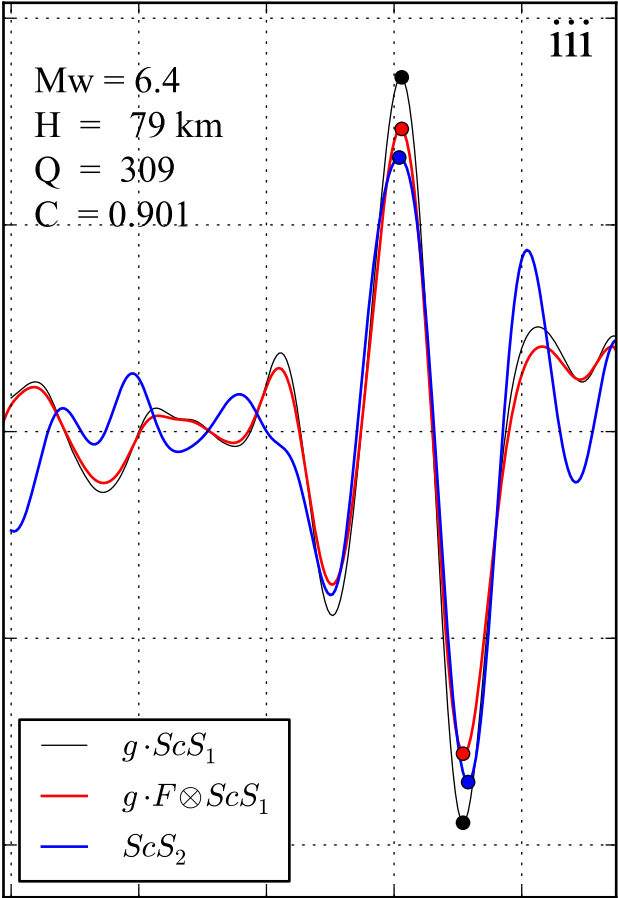
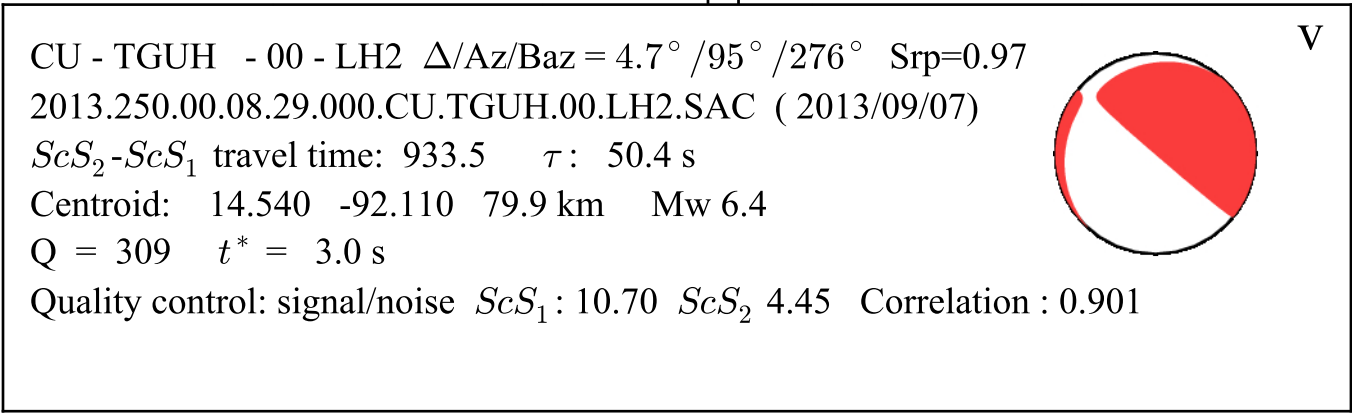


Time [s]

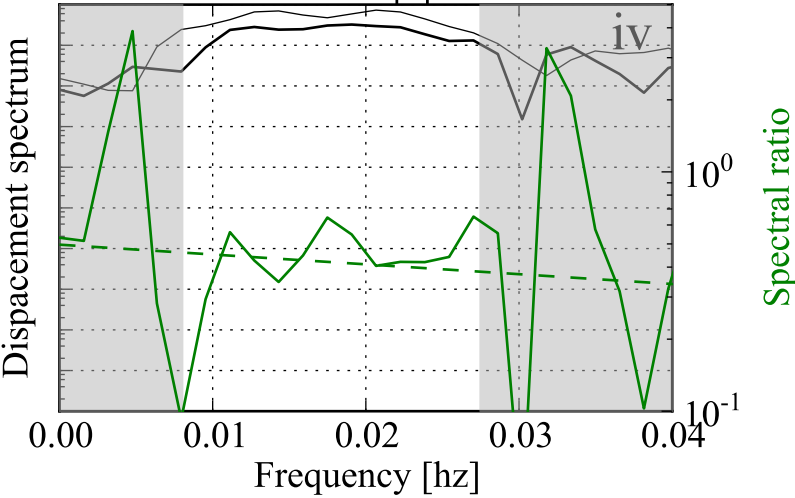


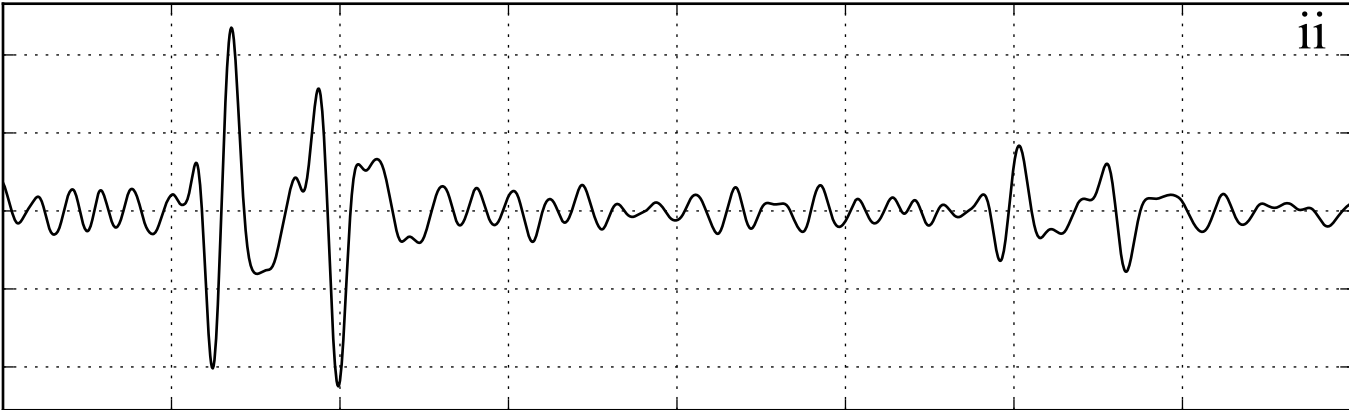
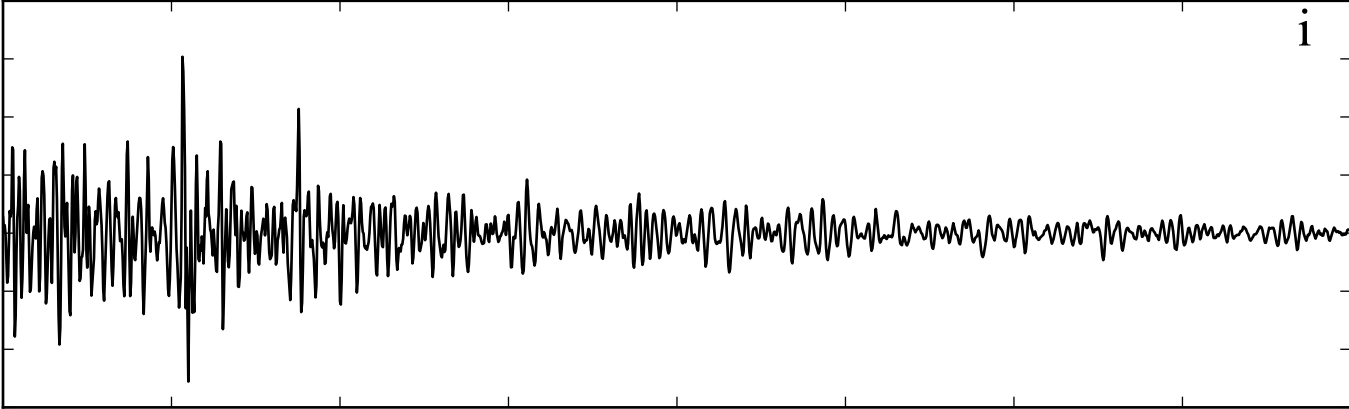


Time [s]

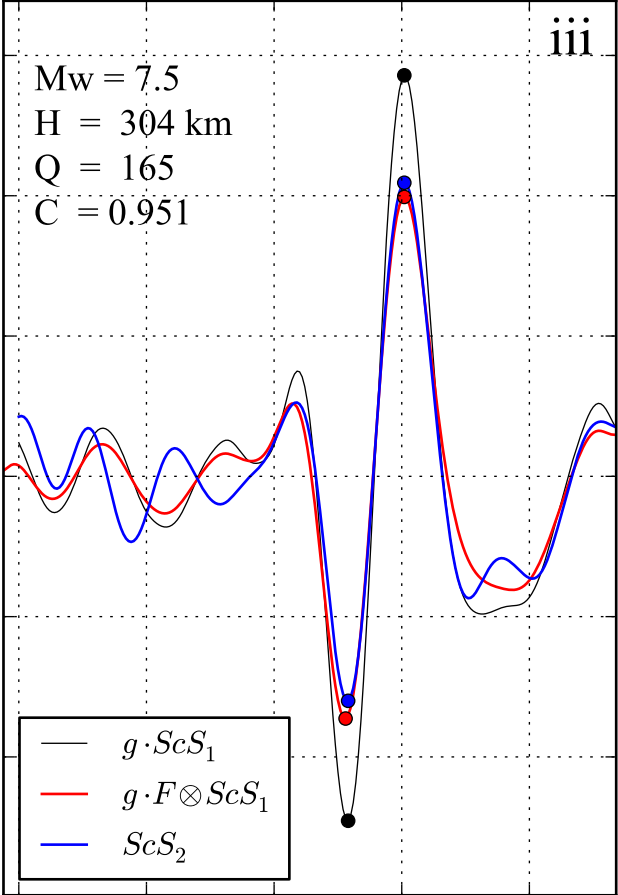
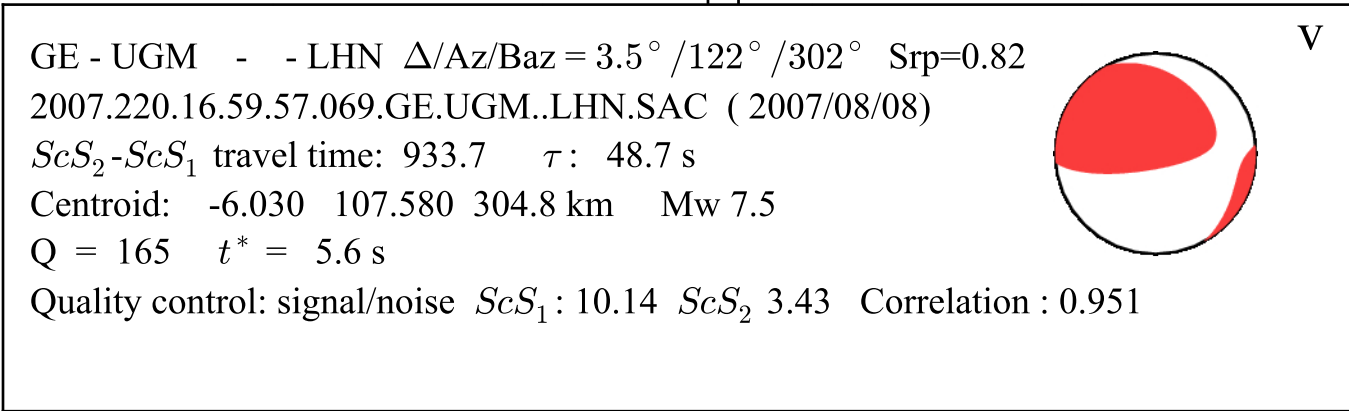


Time [s]

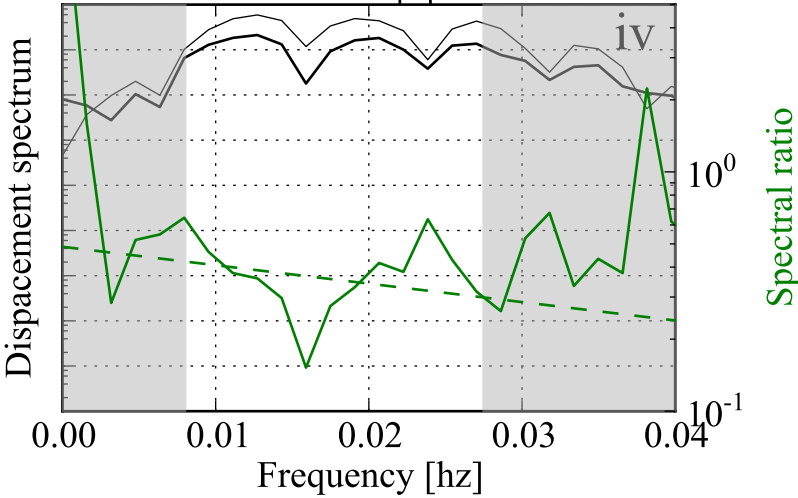


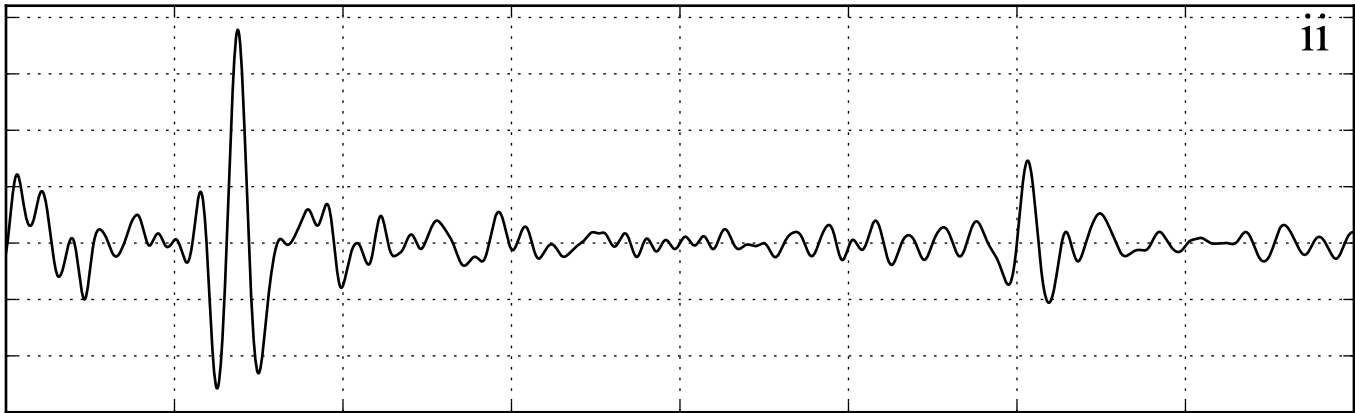
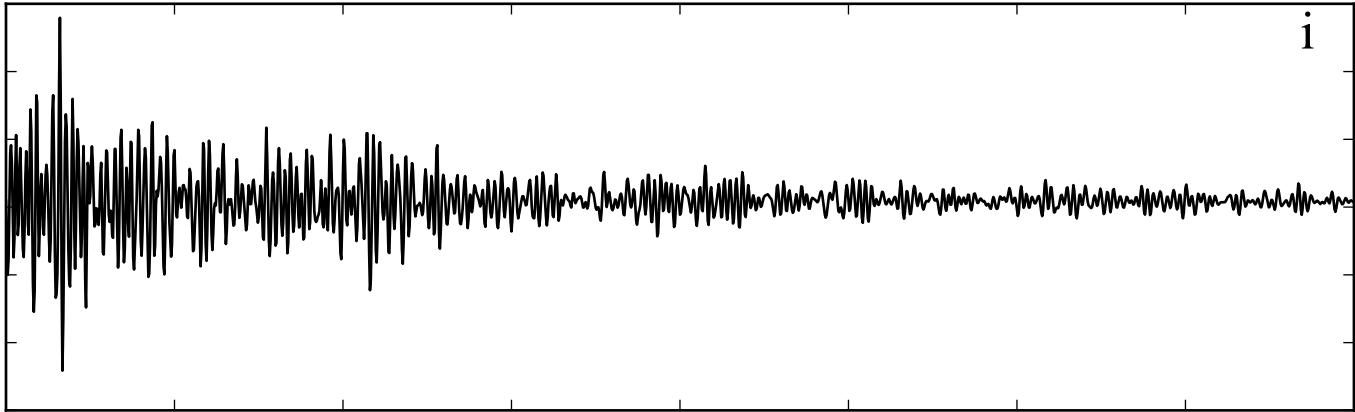


Time [s]

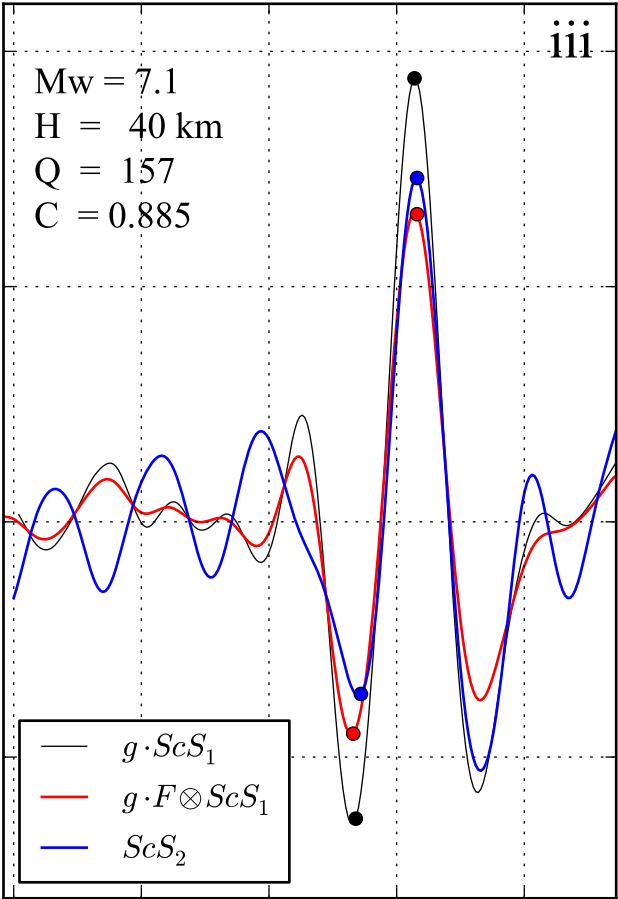
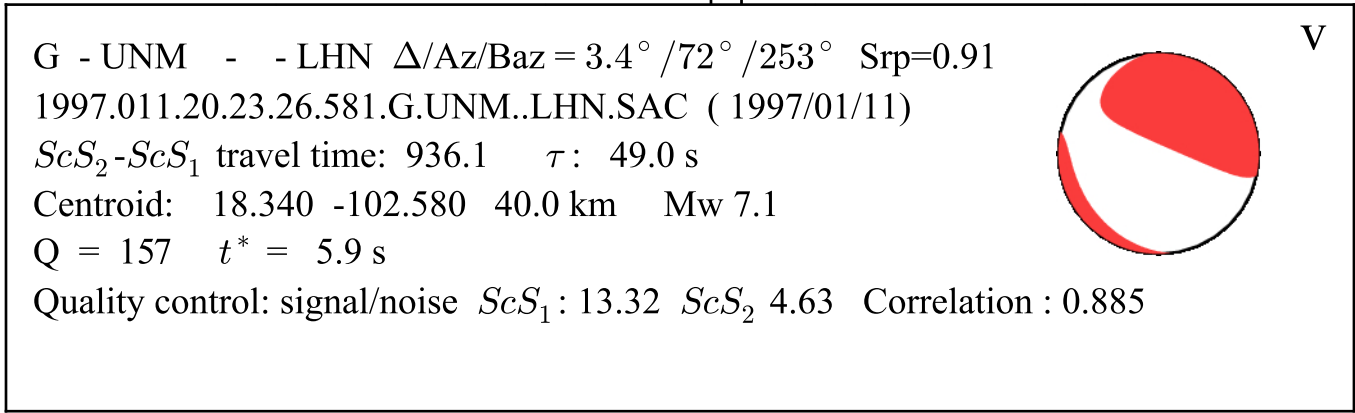


Time [s]

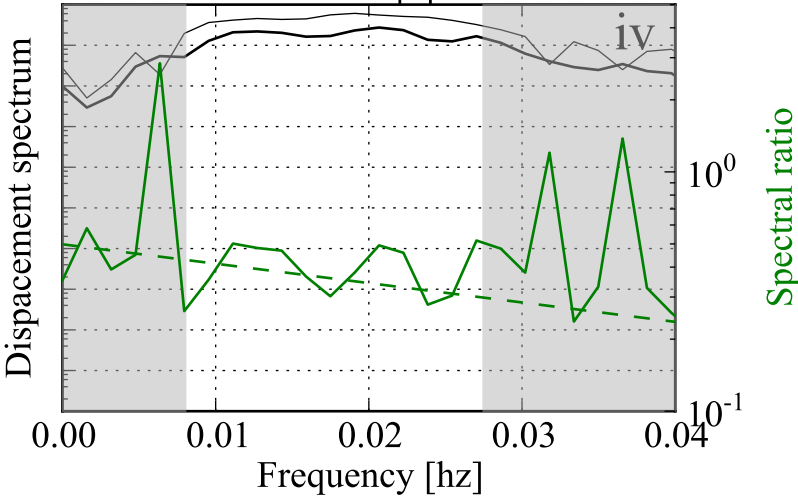


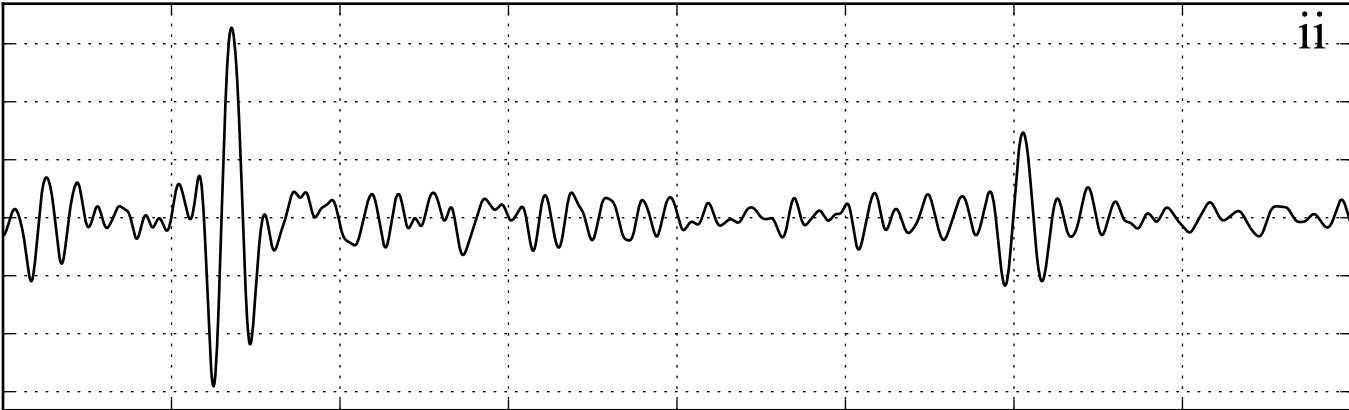
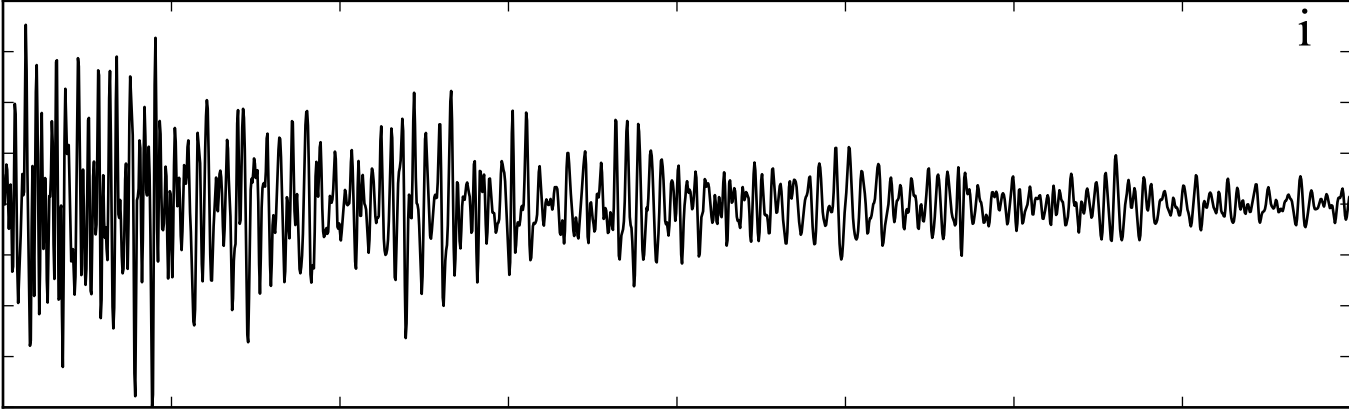


Time [s]

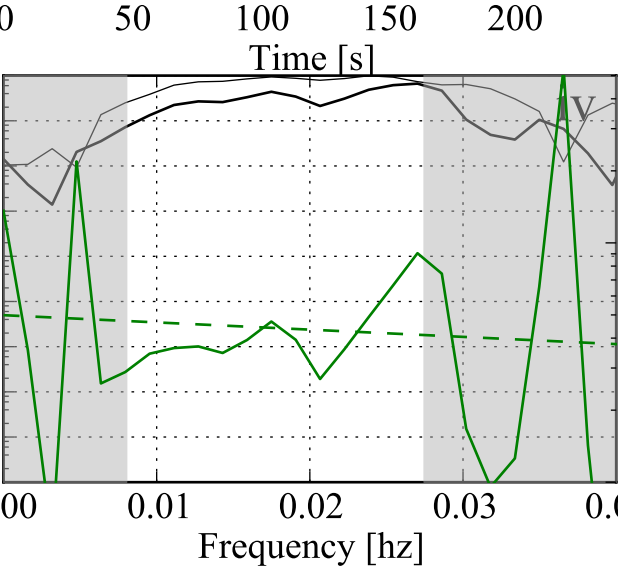
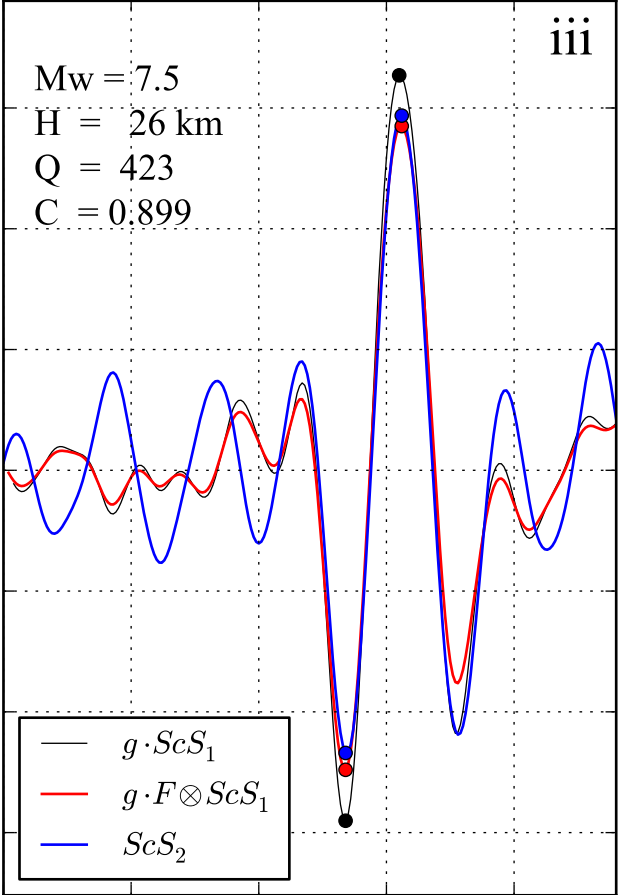
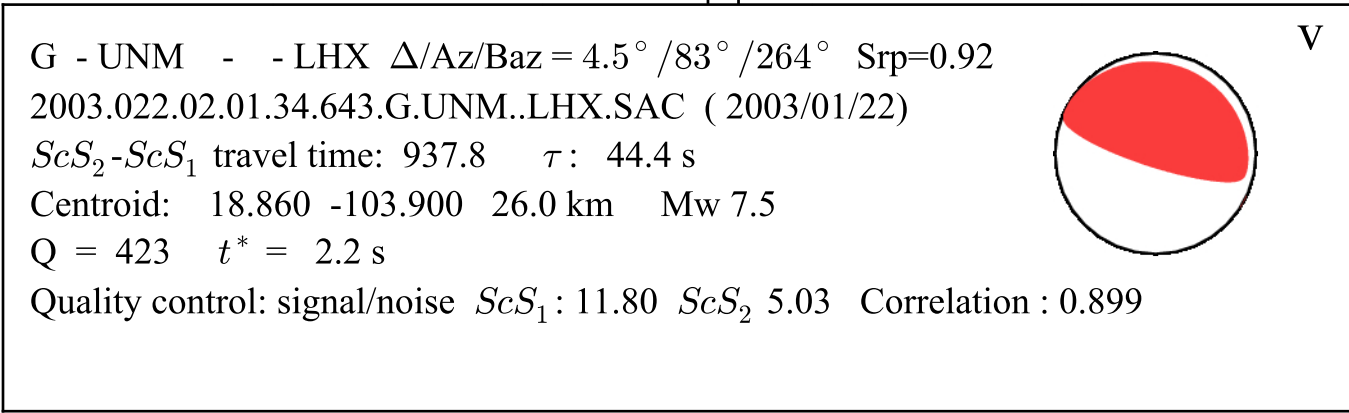


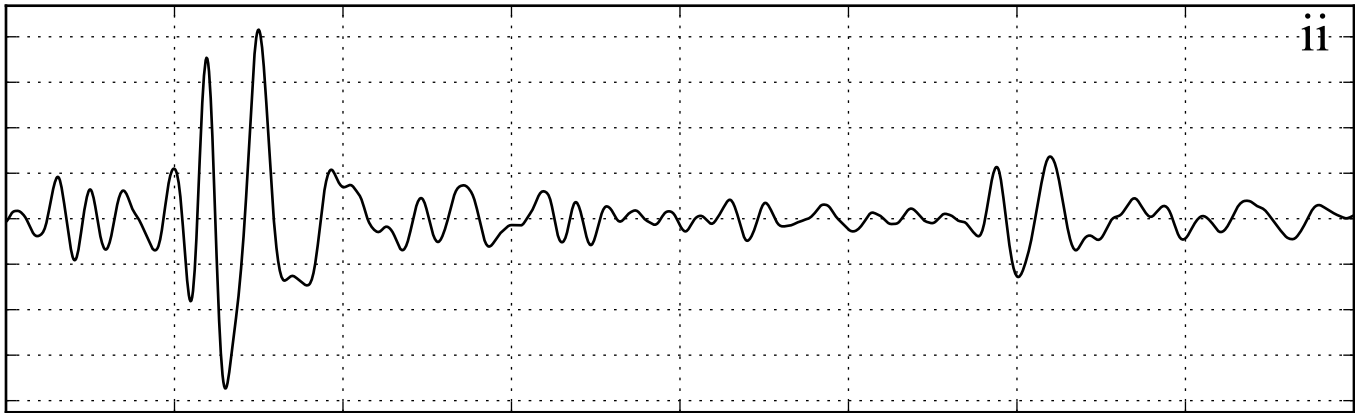
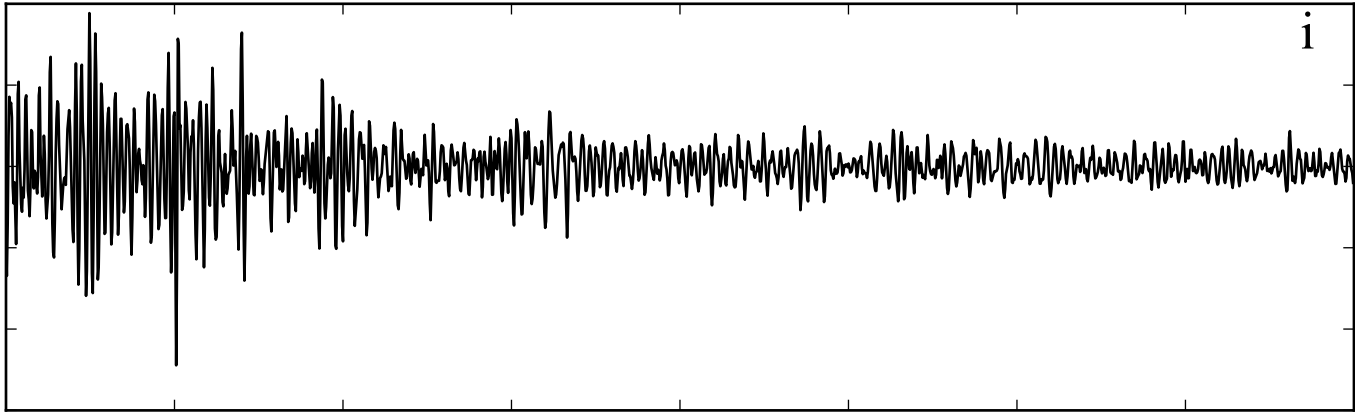
Time [s]



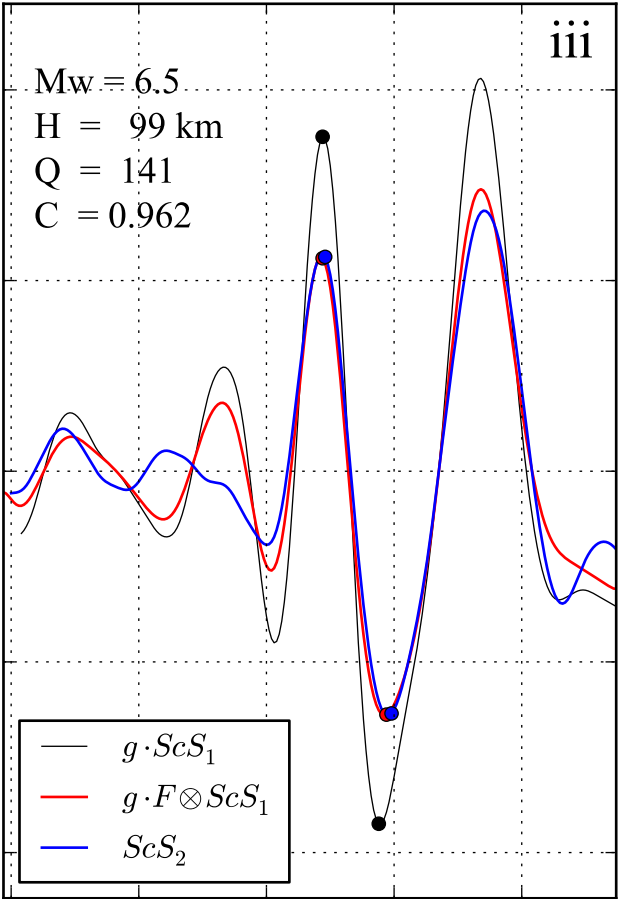
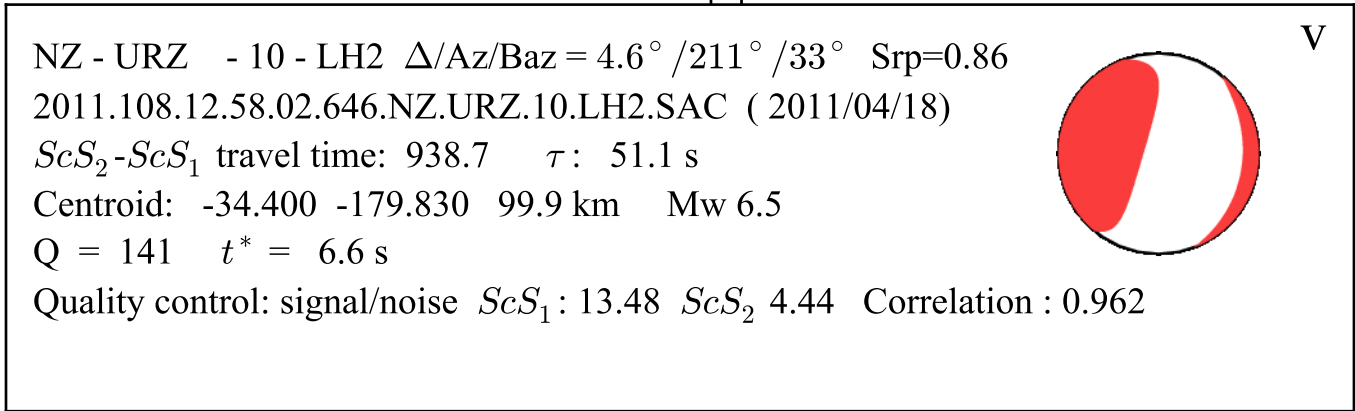


Time [s]

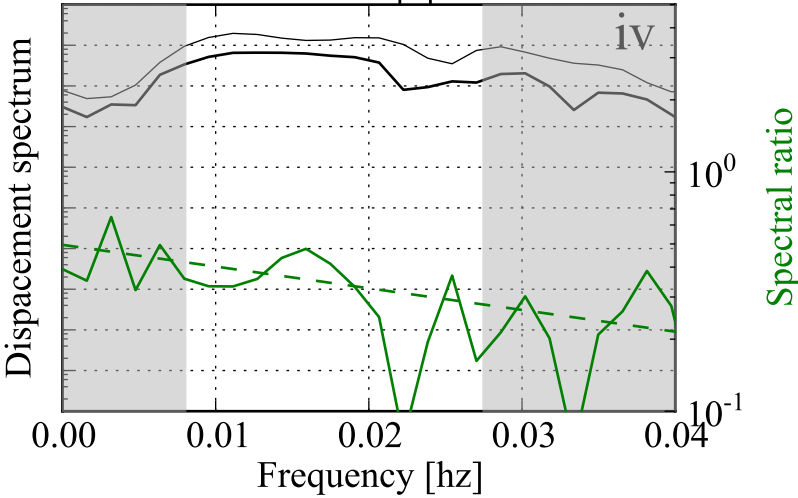


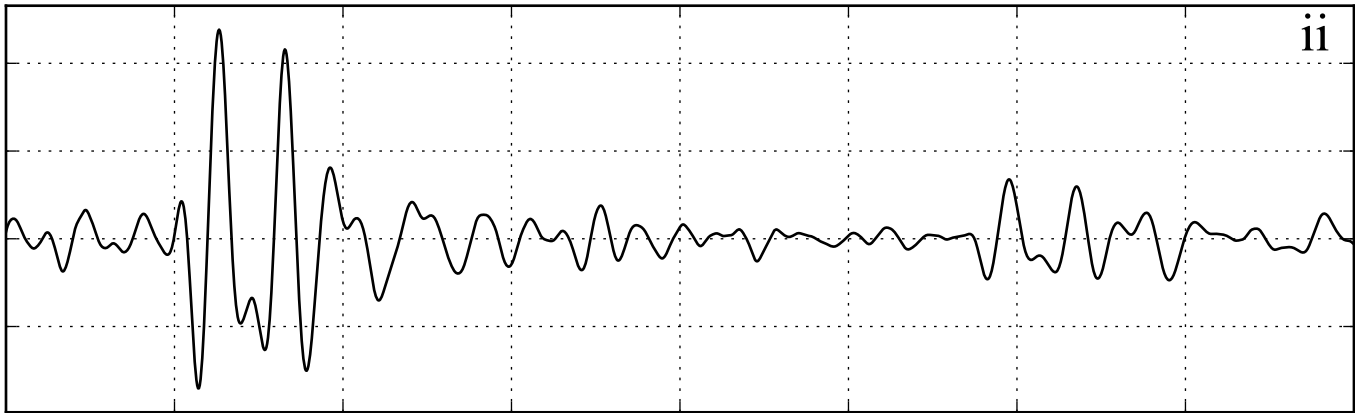
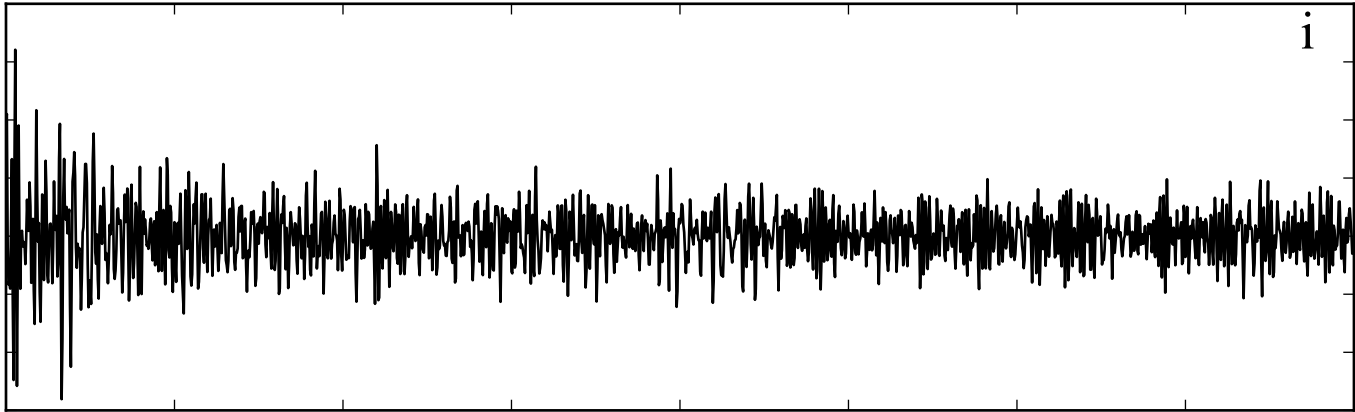


Time [s]

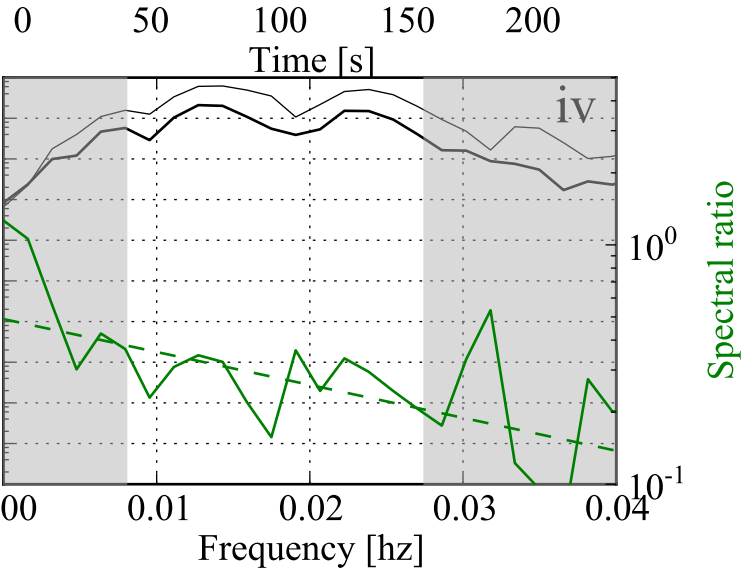
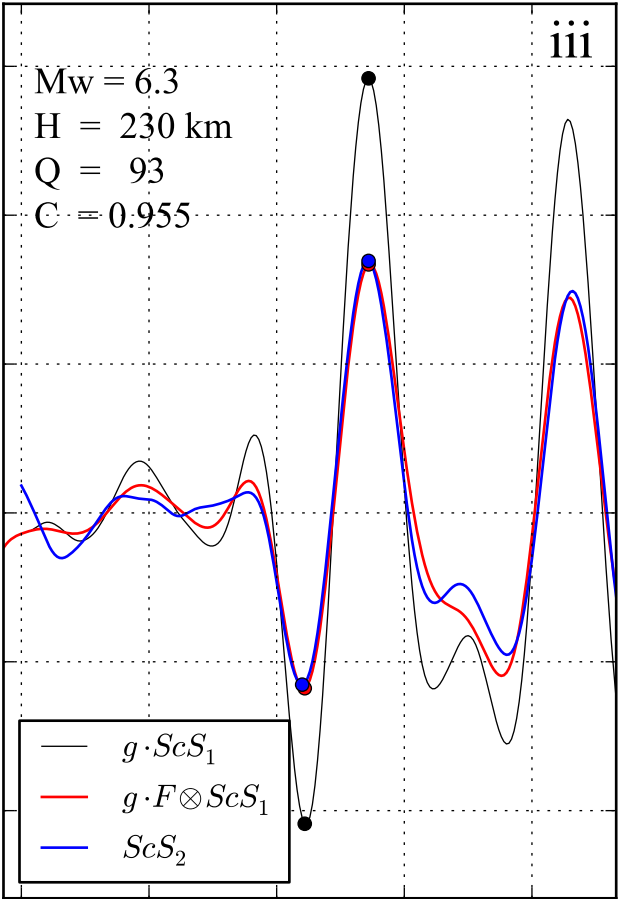
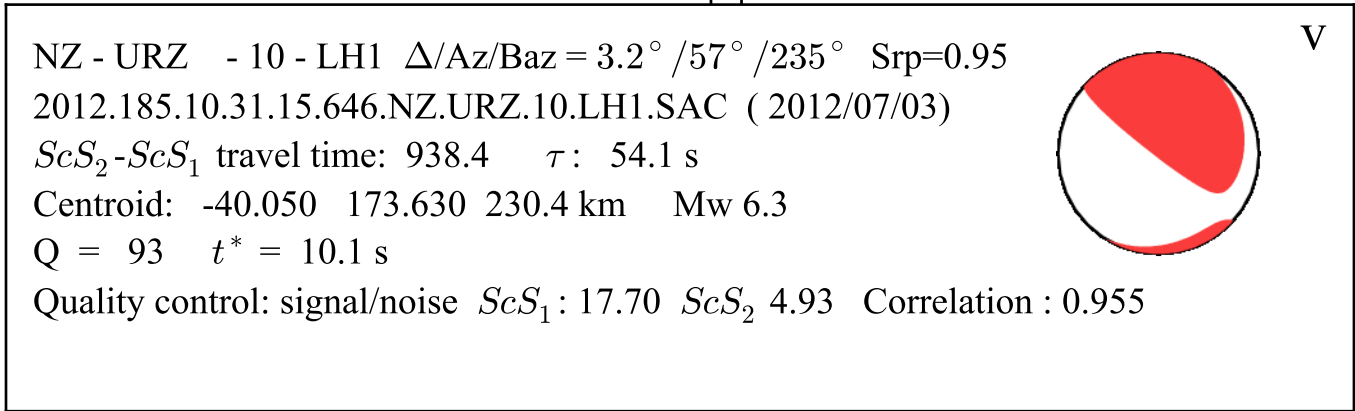


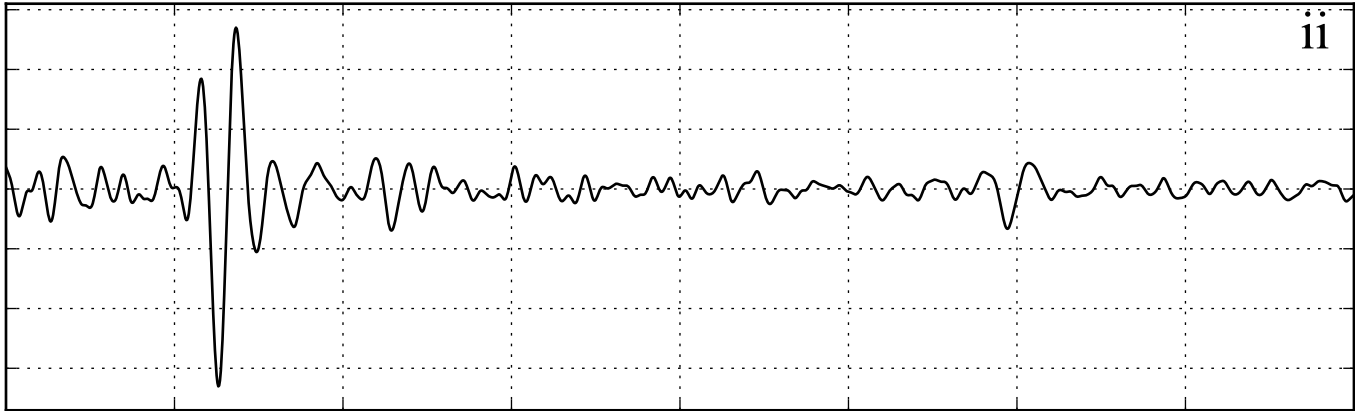
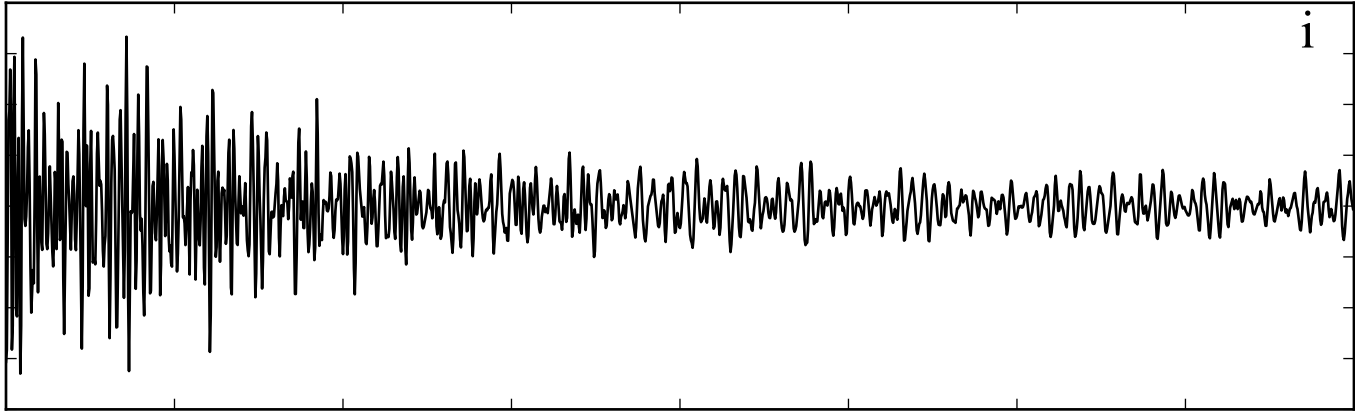
Time [s]



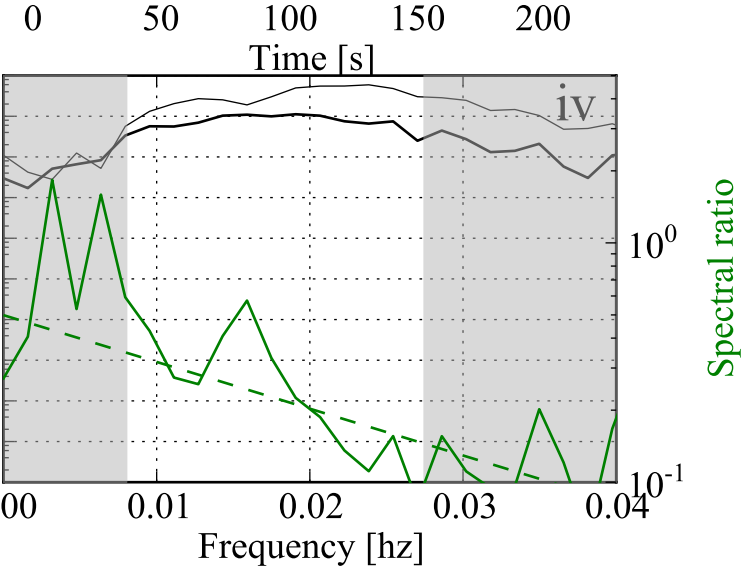
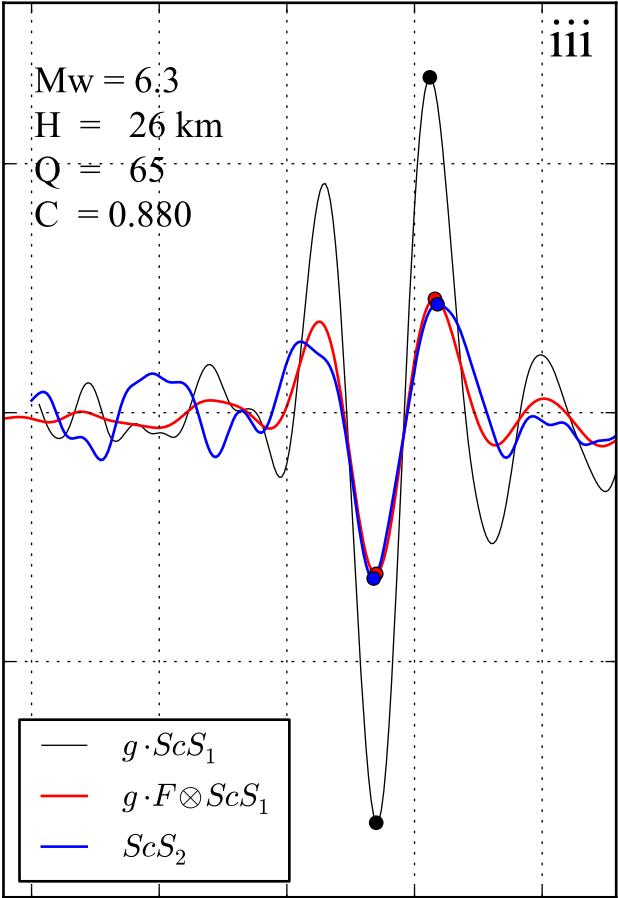
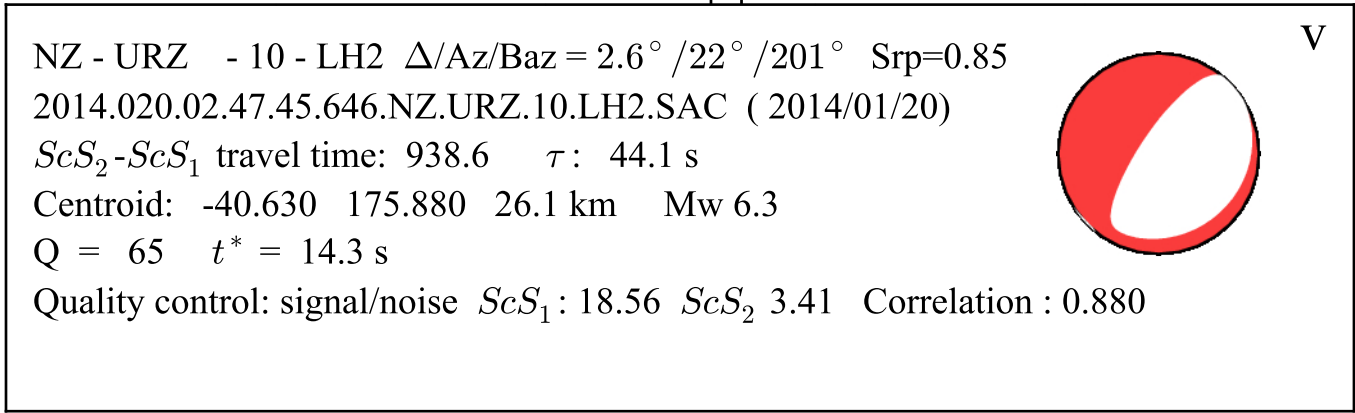


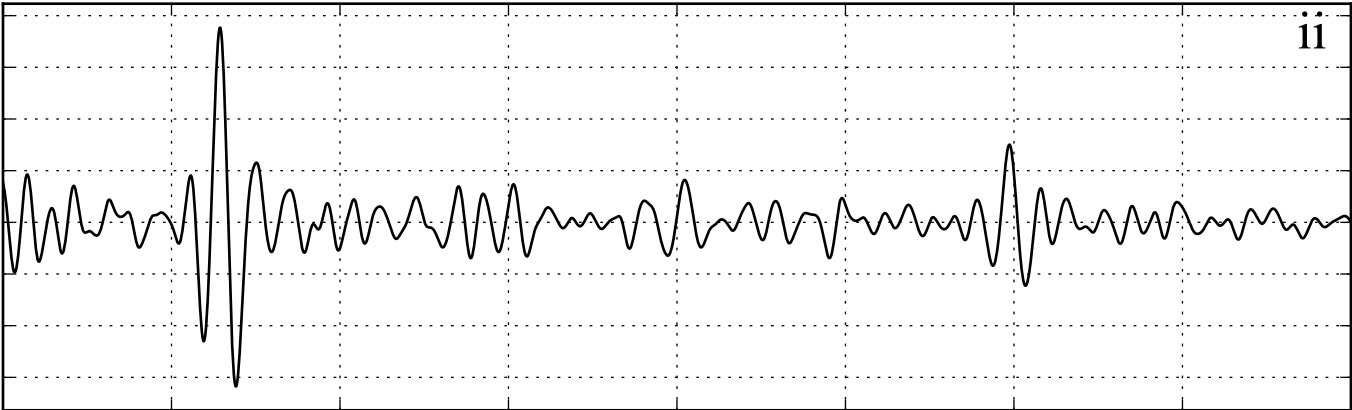
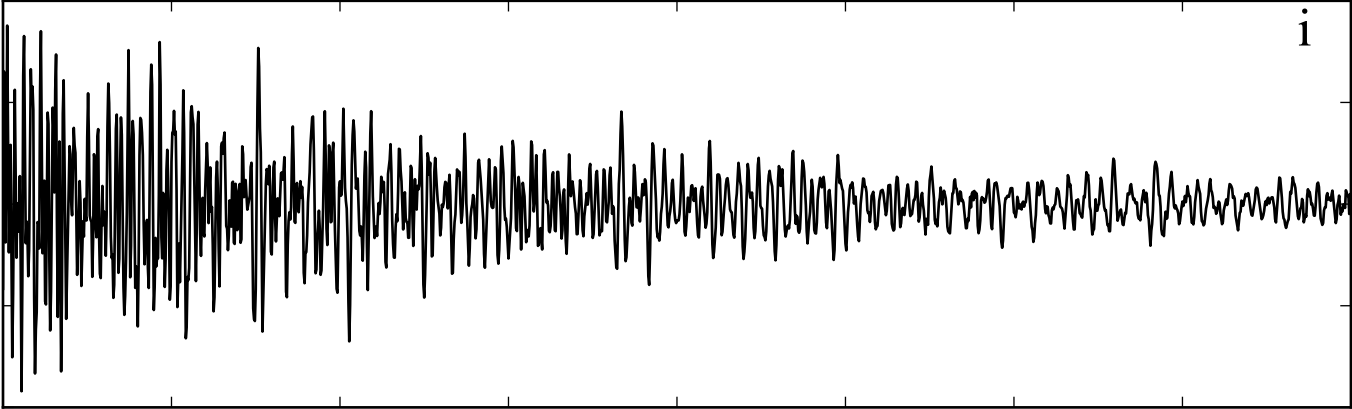
Time [s]





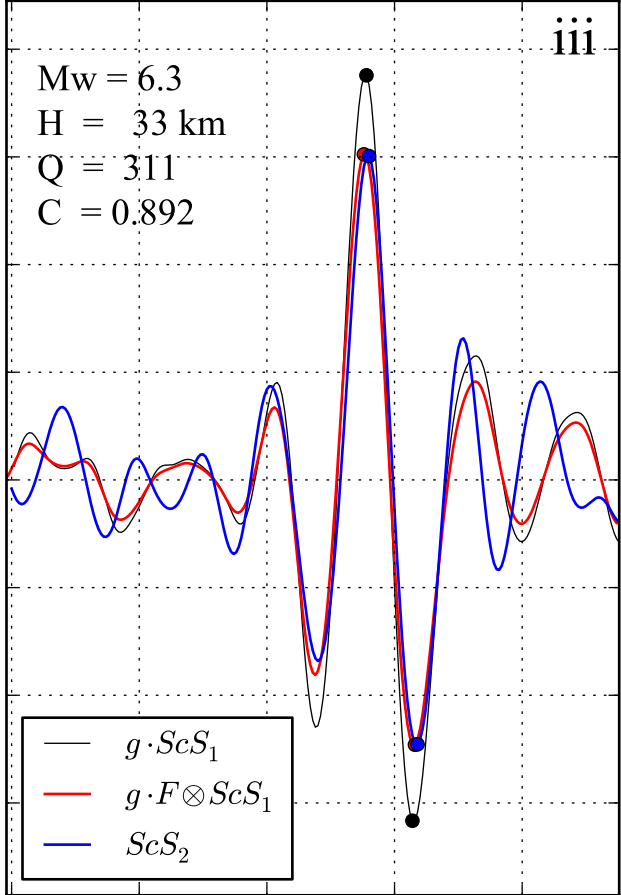
Time [s]



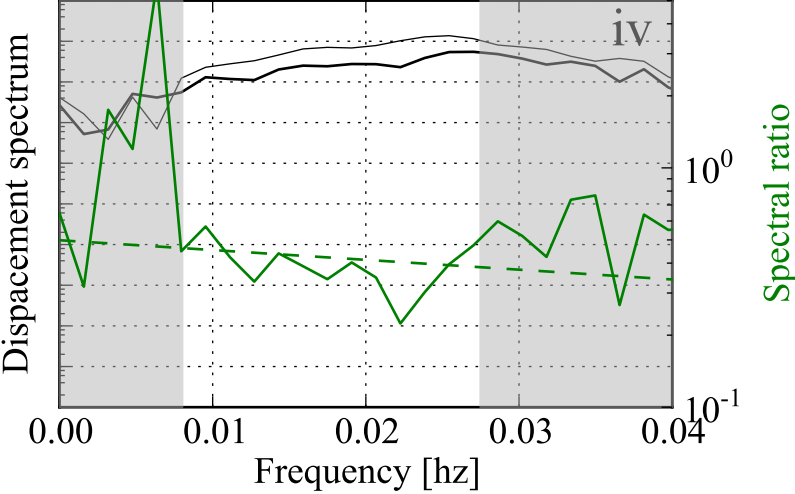


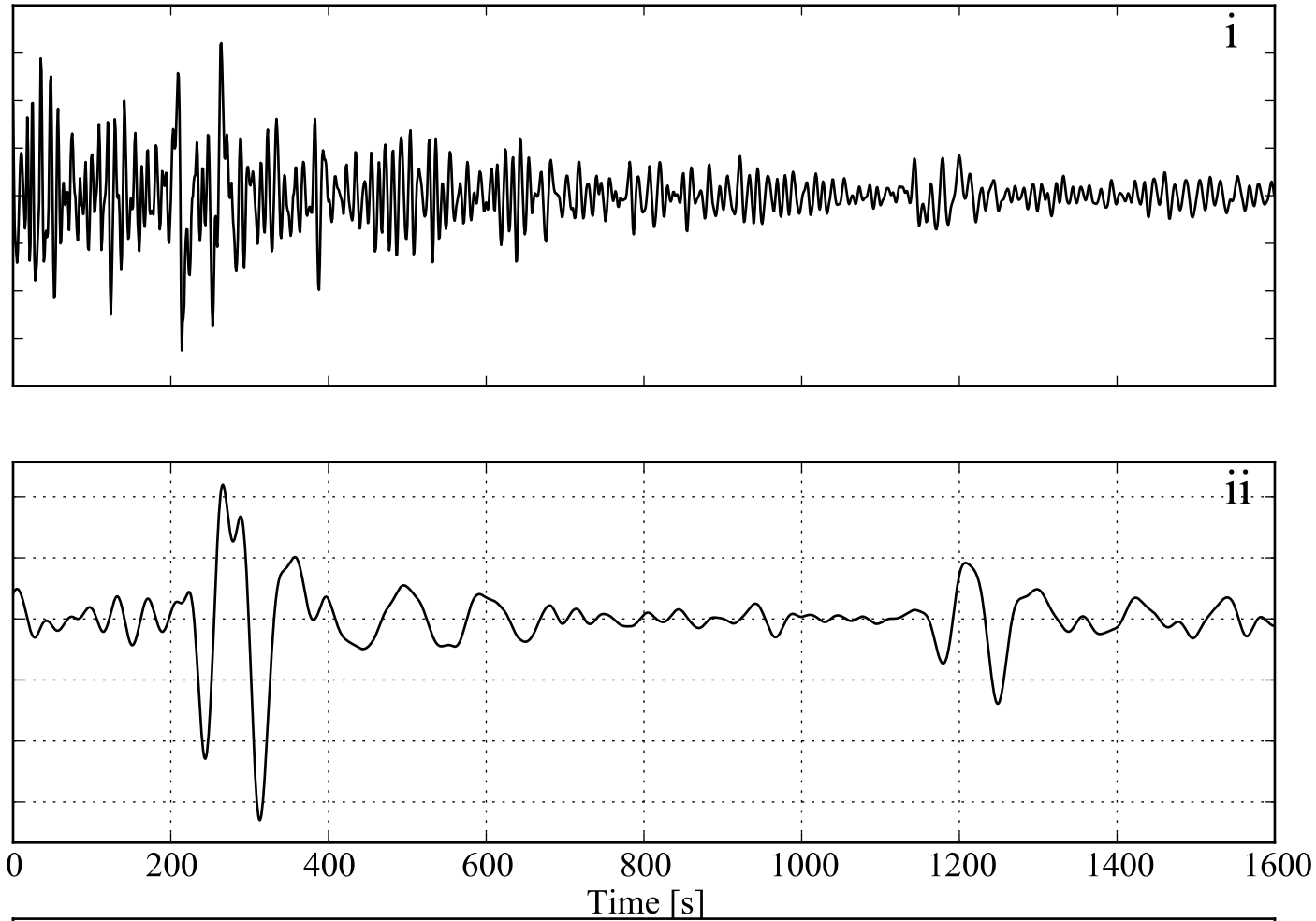
Time [s]

TW - YHNB - - LHN $\Delta/Az/Baz = 1.3^\circ/310^\circ/129^\circ$ $Srp=0.84$
2004.313.15.50.01.069.TW.YHNB..LHN.SAC (2004/11/08)
 ScS_2 - ScS_1 travel time: 935.8 τ : 39.9 s
Centroid: 23.860 122.430 33.0 km Mw 6.3
 $Q = 311$ $t^* = 3.0$ s
Quality control: signal/noise ScS_1 : 8.74 ScS_2 3.44 Correlation : 0.892

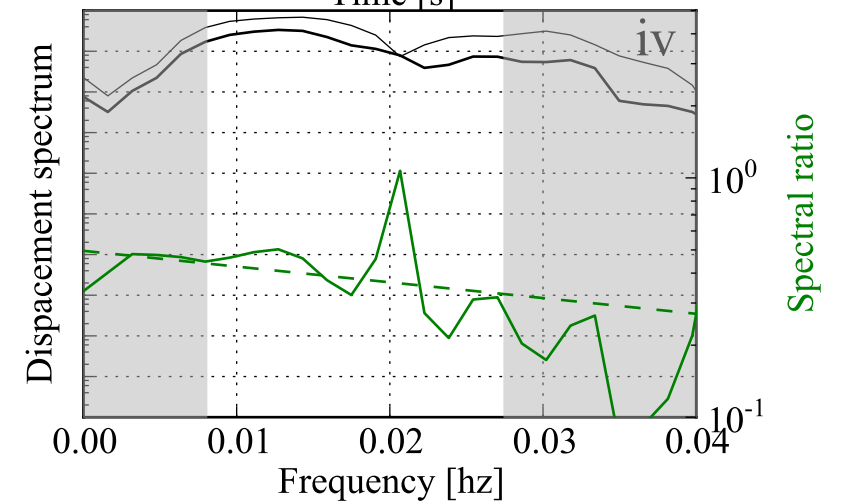
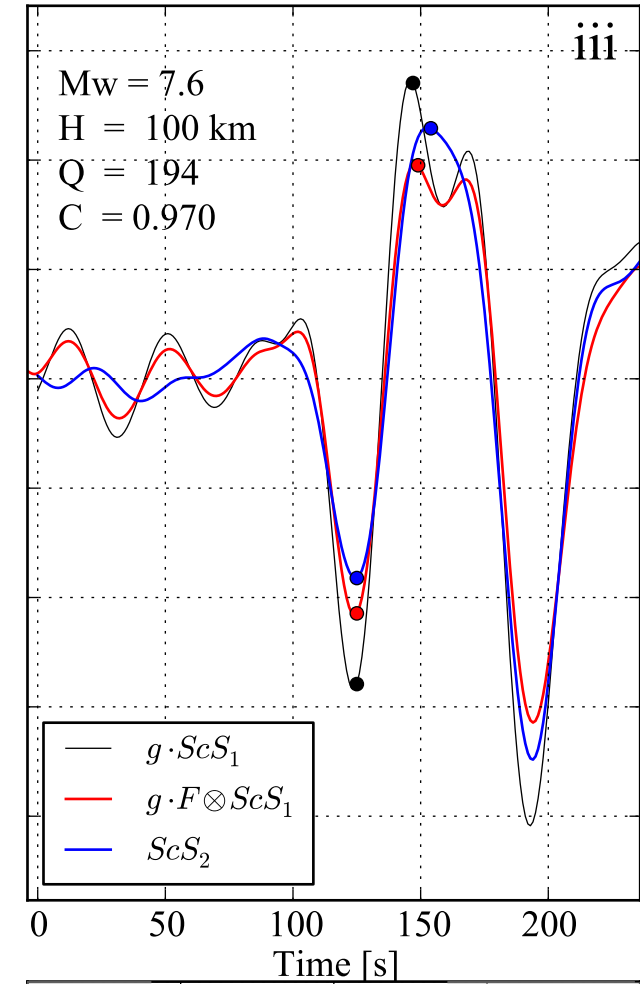
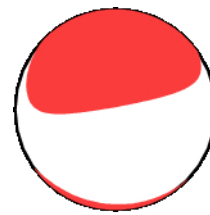


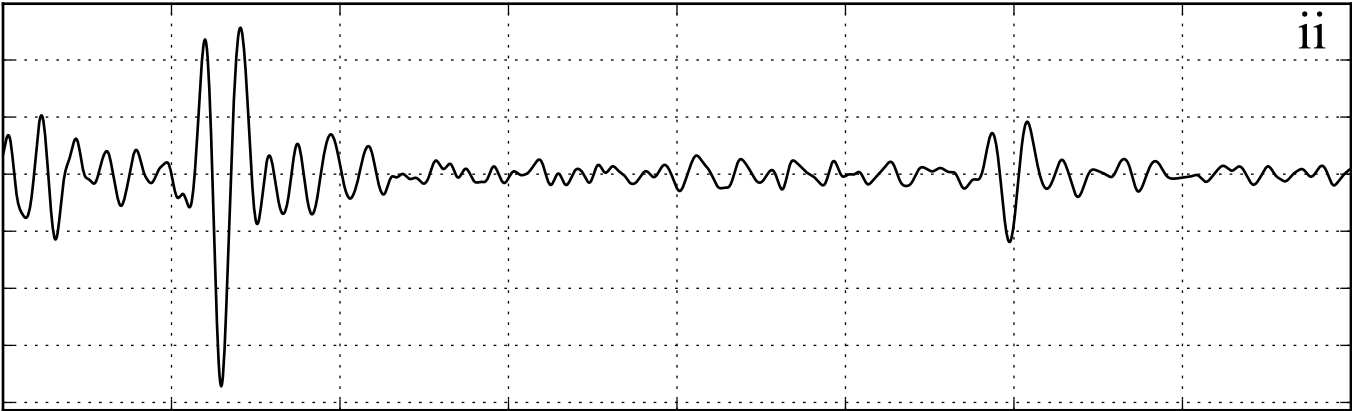
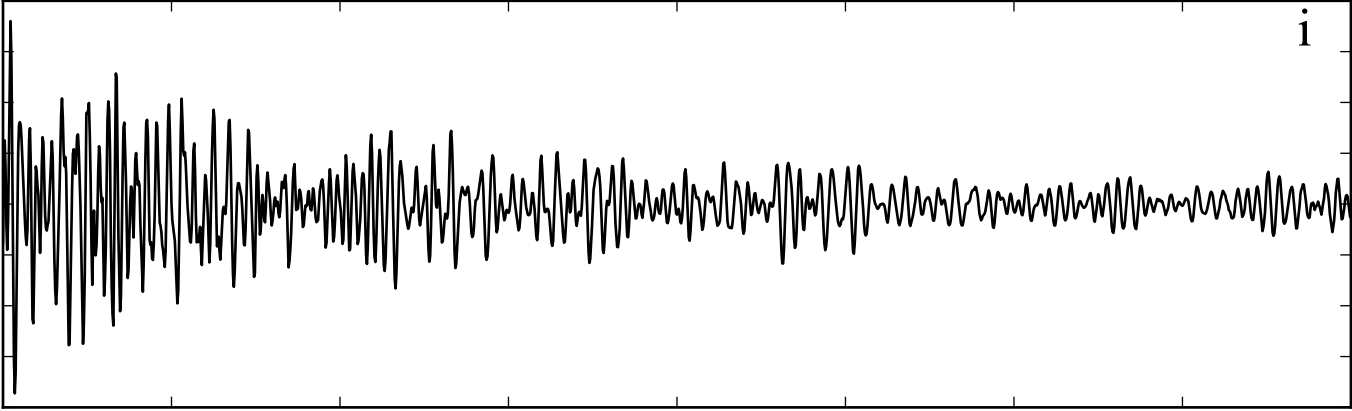
Time [s]





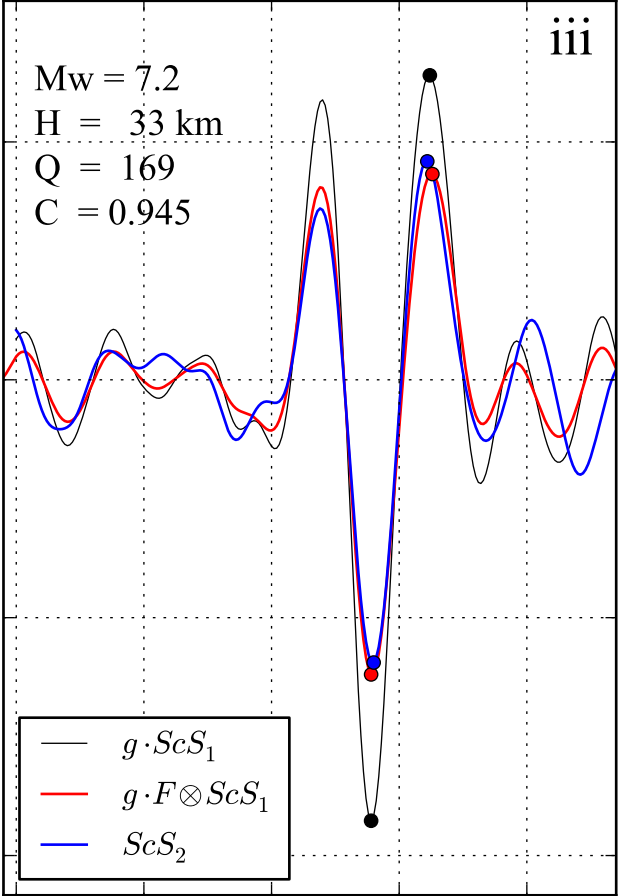
IU - YSS - - LHN $\Delta/Az/Baz = 4.0^\circ/344^\circ/163^\circ$ $Srp=0.98$
 1993.015.11.01.05.802.IU.YSS..LHN.SAC (1993/01/15)
 ScS_2 - ScS_1 travel time: 935.5 τ : 56.2 s
 Centroid: 43.060 144.290 100.0 km Mw 7.6
 $Q = 194$ $t^* = 4.8$ s
 Quality control: signal/noise ScS_1 : 15.54 ScS_2 5.76 Correlation : 0.970



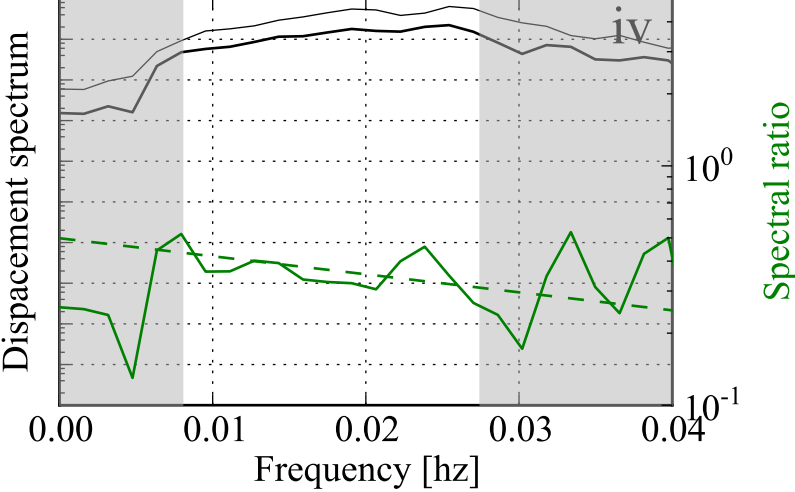


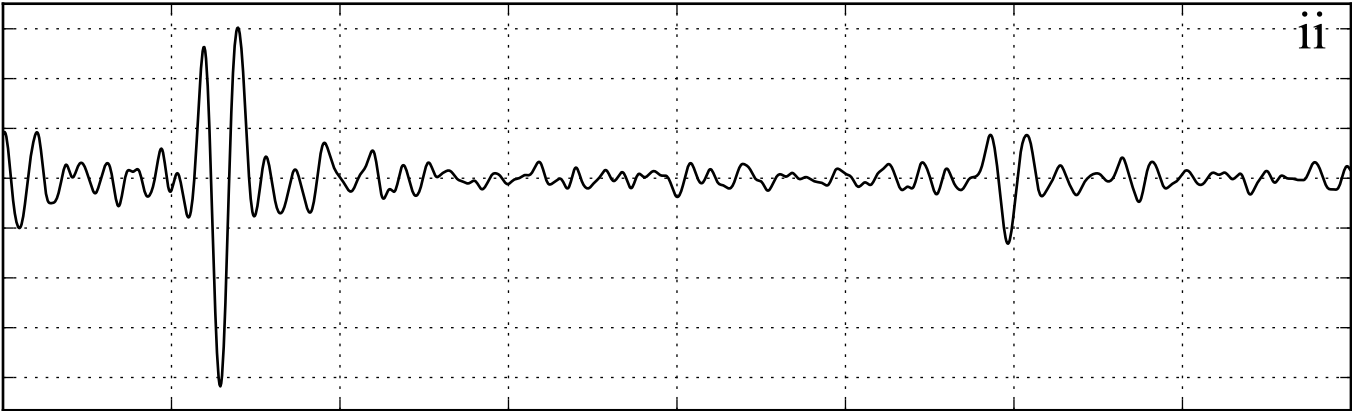
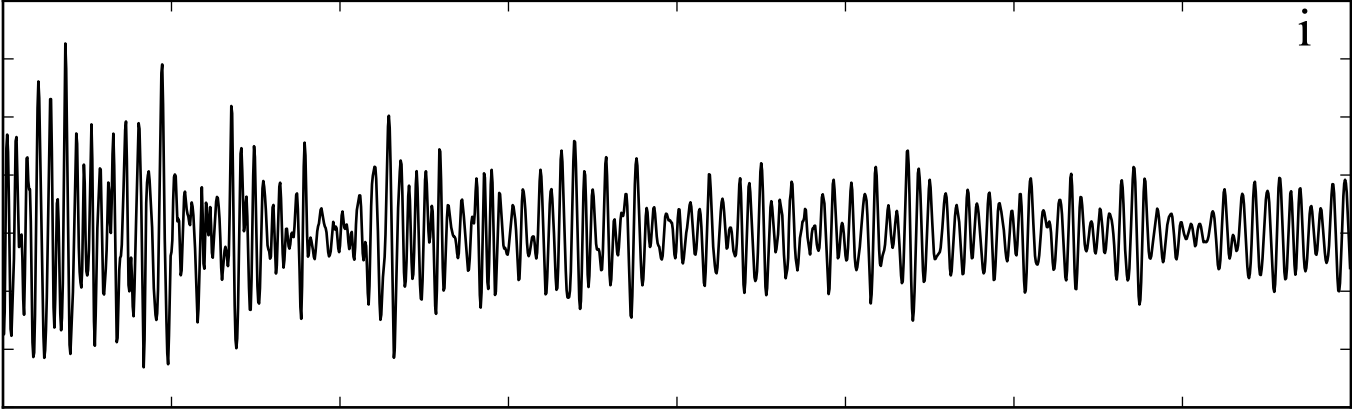
Time [s]

IU - YSS - - LHE $\Delta/Az/Baz = 4.8^\circ/311^\circ/128^\circ$ Srp=0.80
1994.282.07.50.38.528.IU.YSS..LHE.SAC (1994/10/09)
 ScS_2 - ScS_1 travel time: 935.3 τ : 43.7 s
Centroid: 43.870 147.960 33.2 km Mw 7.2
 $Q = 169$ $t^* = 5.5$ s
Quality control: signal/noise ScS_1 : 14.40 ScS_2 4.83 Correlation : 0.945



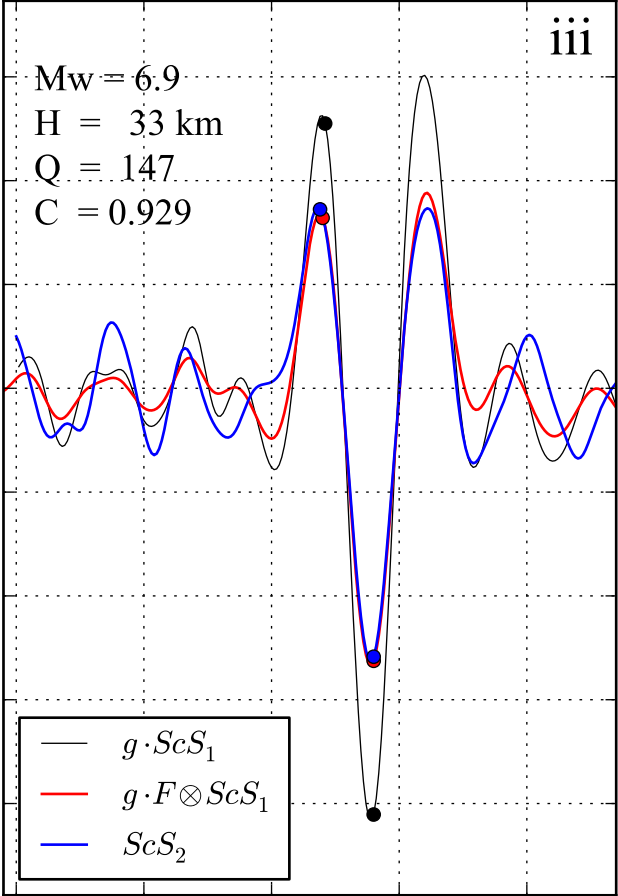
Time [s]



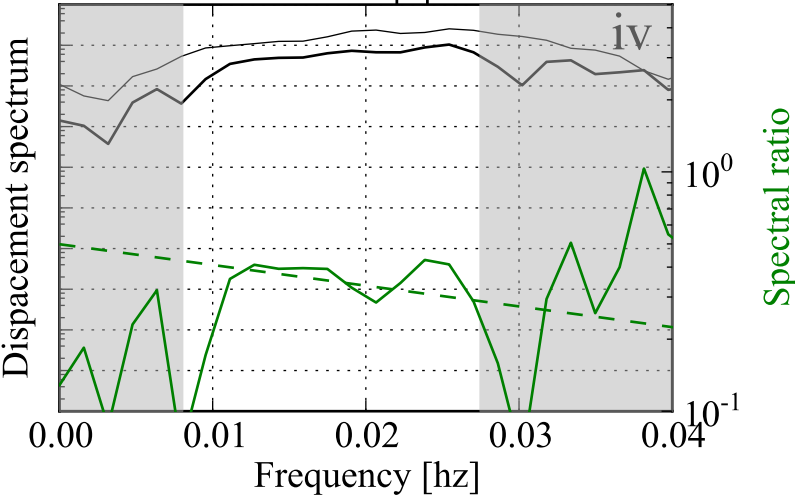


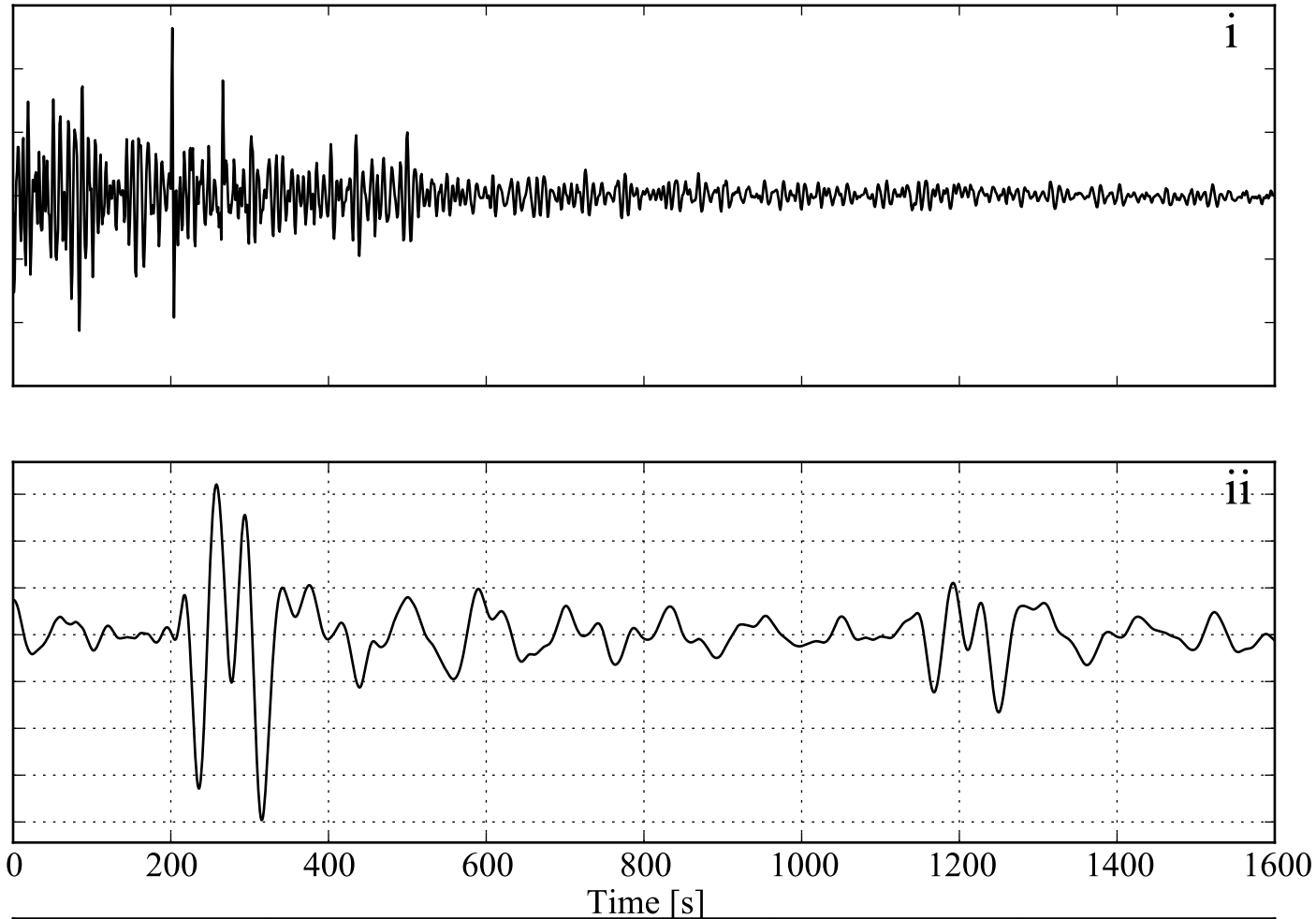
Time [s]

IU - YSS - - LHE $\Delta/Az/Baz = 4.9^\circ/309^\circ/125^\circ$ Srp=0.74
1995.118.16.25.00.329.IU.YSS..LHE.SAC (1995/04/28)
 ScS_2 - ScS_1 travel time: 936.2 τ : 42.3 s
Centroid: 43.980 148.250 33.8 km Mw 6.9
 $Q = 147$ $t^* = 6.3$ s
Quality control: signal/noise ScS_1 : 15.25 ScS_2 4.92 Correlation : 0.929

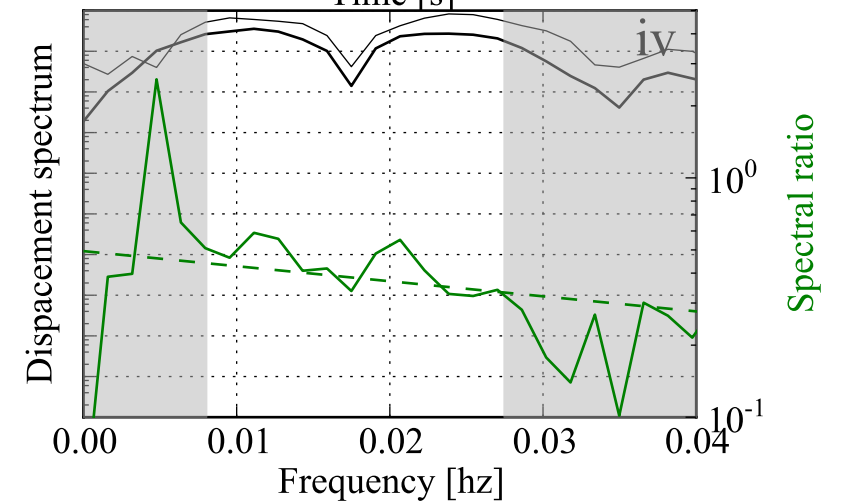
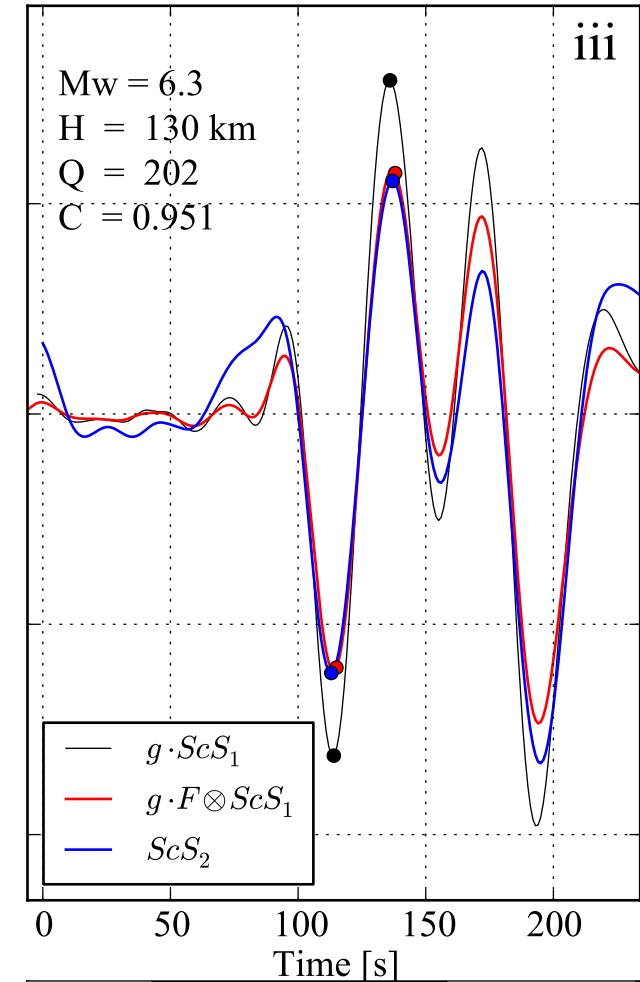


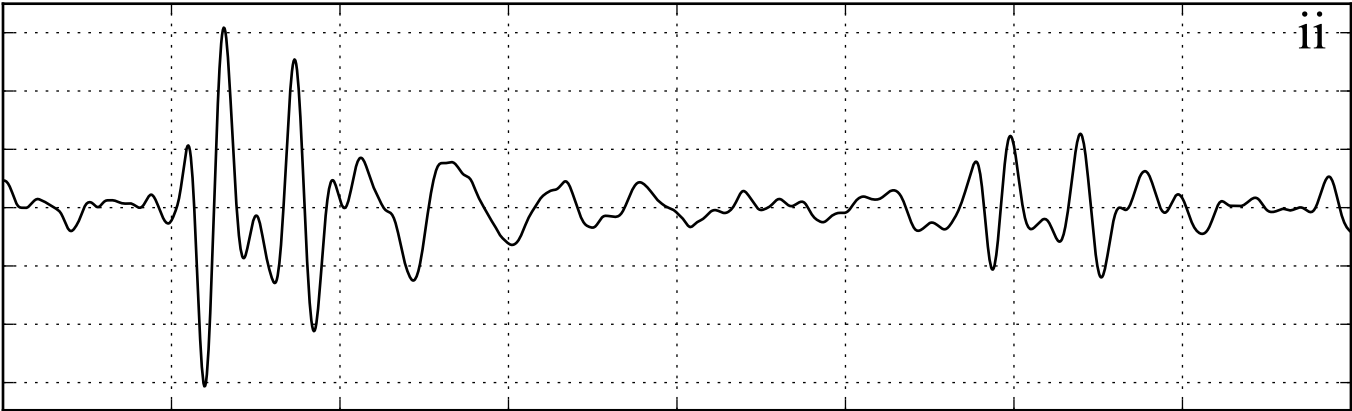
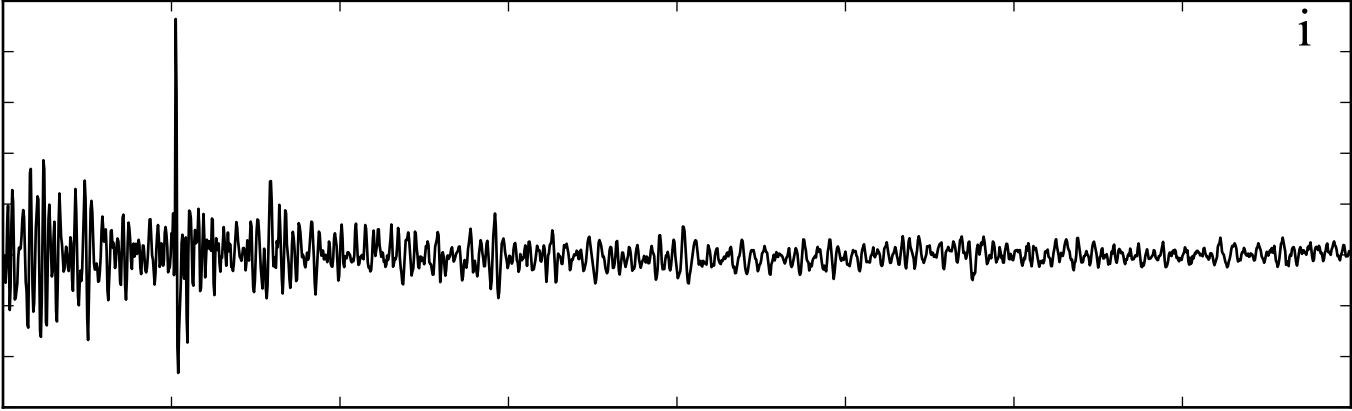
Time [s]



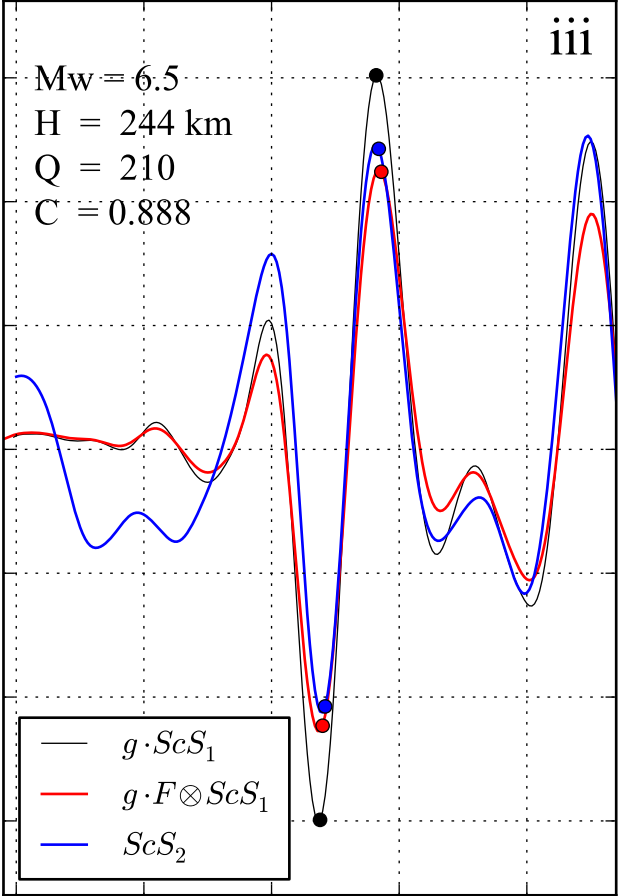
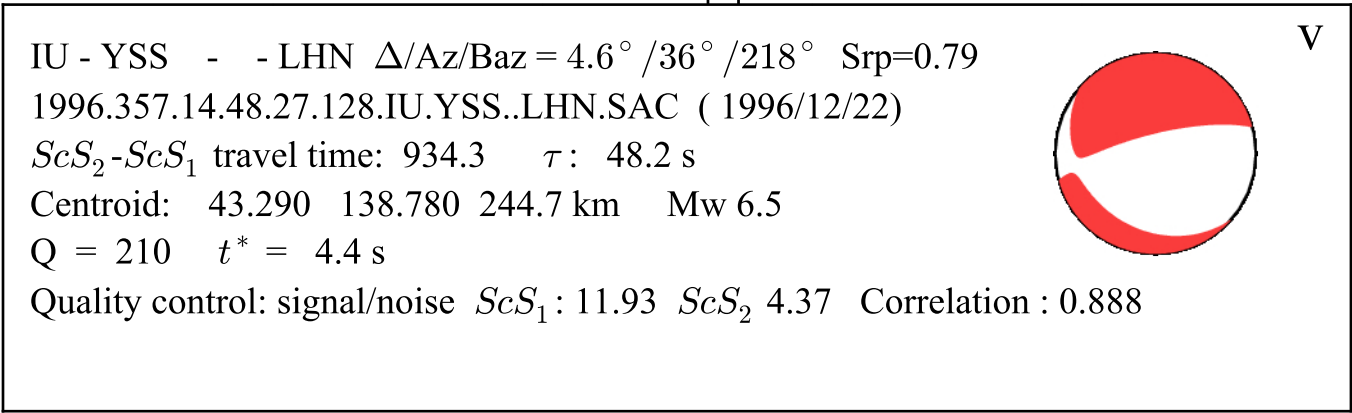


IU - YSS - - LHN $\Delta/Az/Baz = 4.4^\circ/294^\circ/110^\circ$ $Srp=0.97$
 1996.053.14.54.09.178.IU.YSS..LHN.SAC (1996/02/22)
 ScS_2-ScS_1 travel time: 933.5 τ : 44.1 s
 Centroid: 45.290 148.560 130.3 km Mw 6.3
 $Q = 202$ $t^* = 4.6$ s
 Quality control: signal/noise ScS_1 : 9.22 ScS_2 3.32 Correlation : 0.951

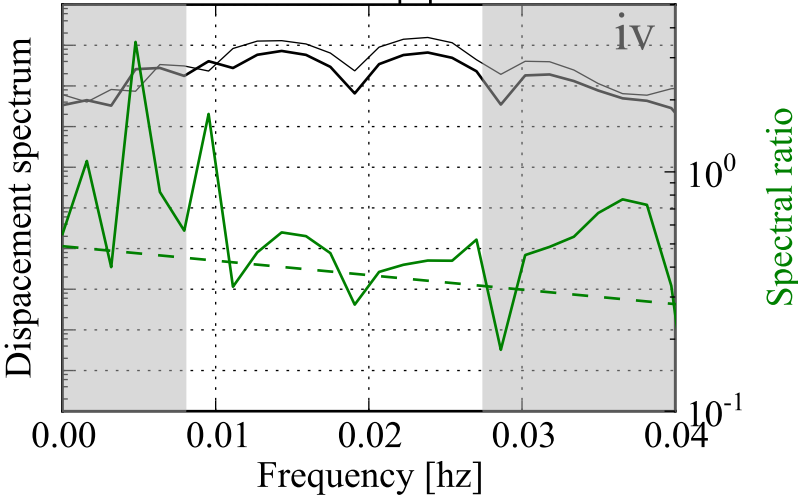


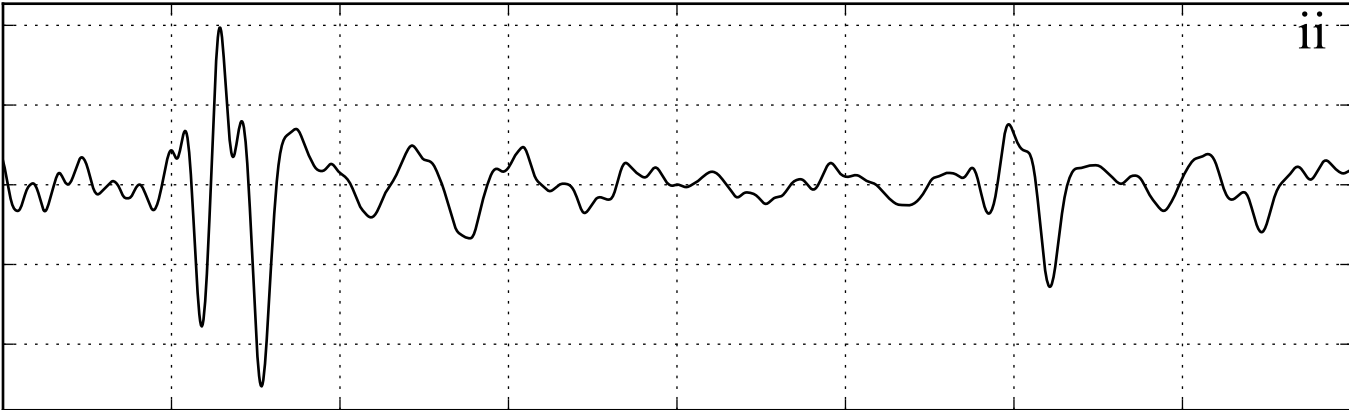
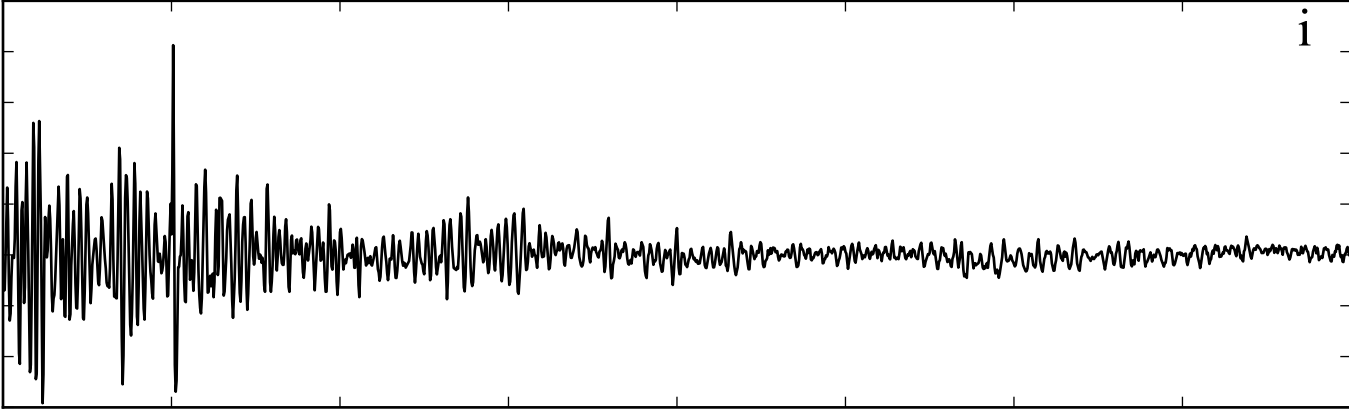


Time [s]

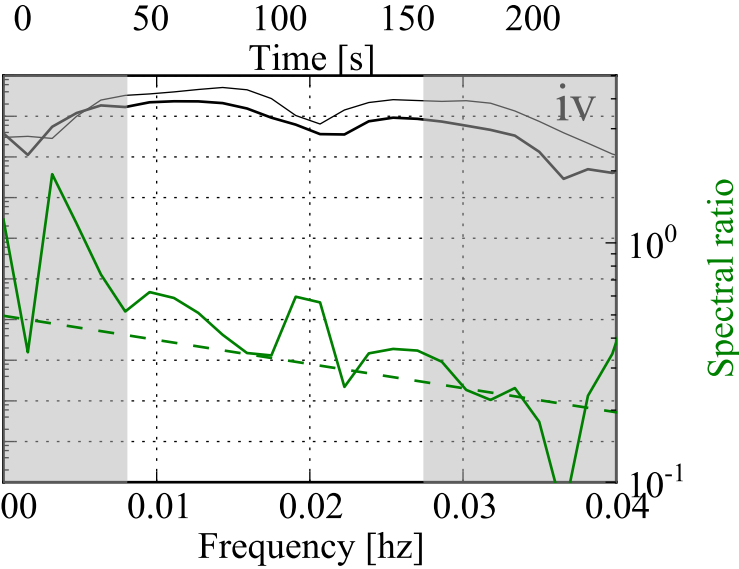
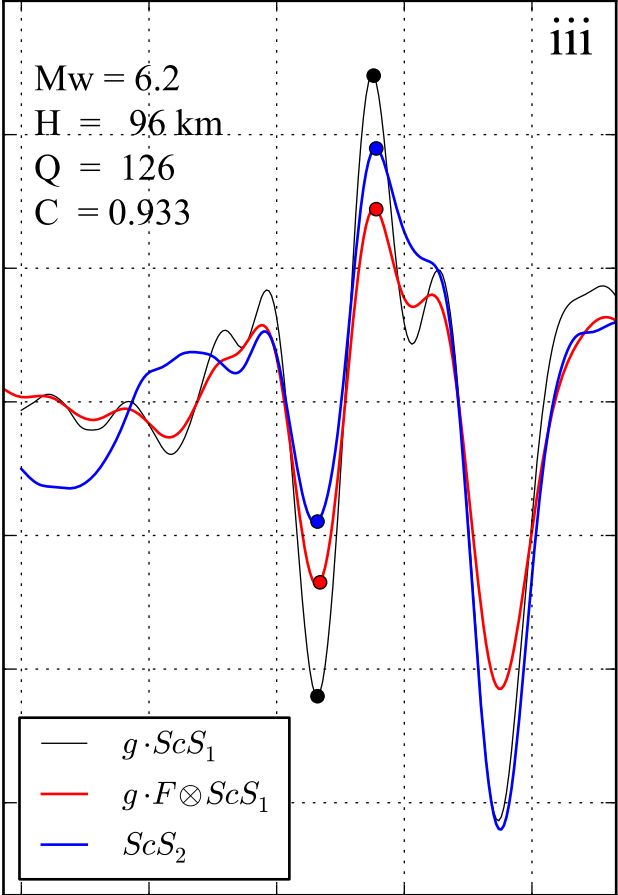
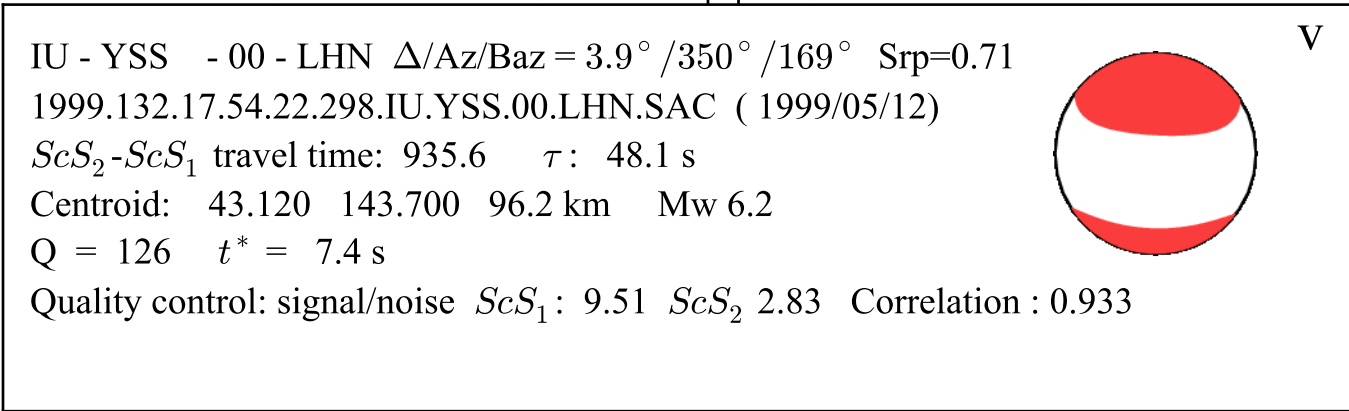


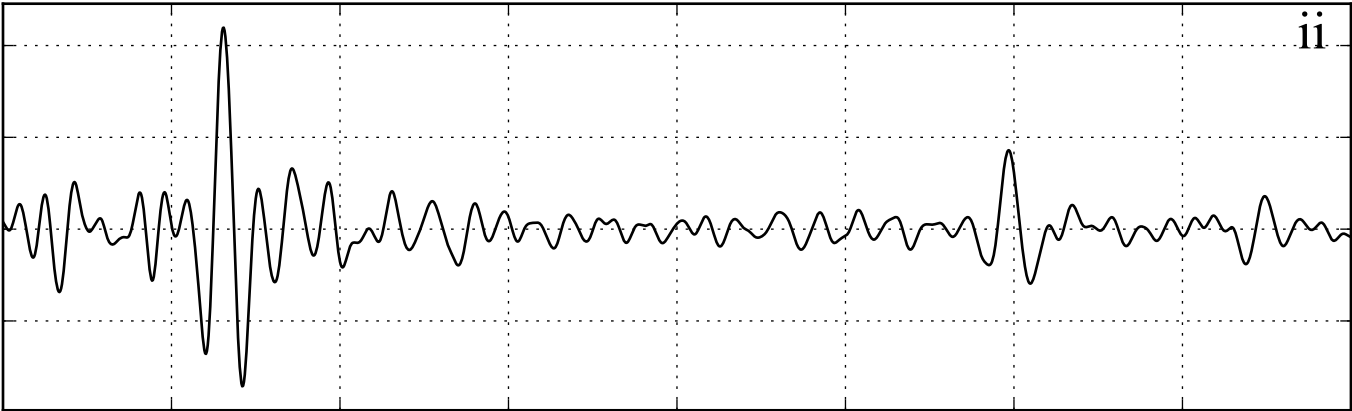
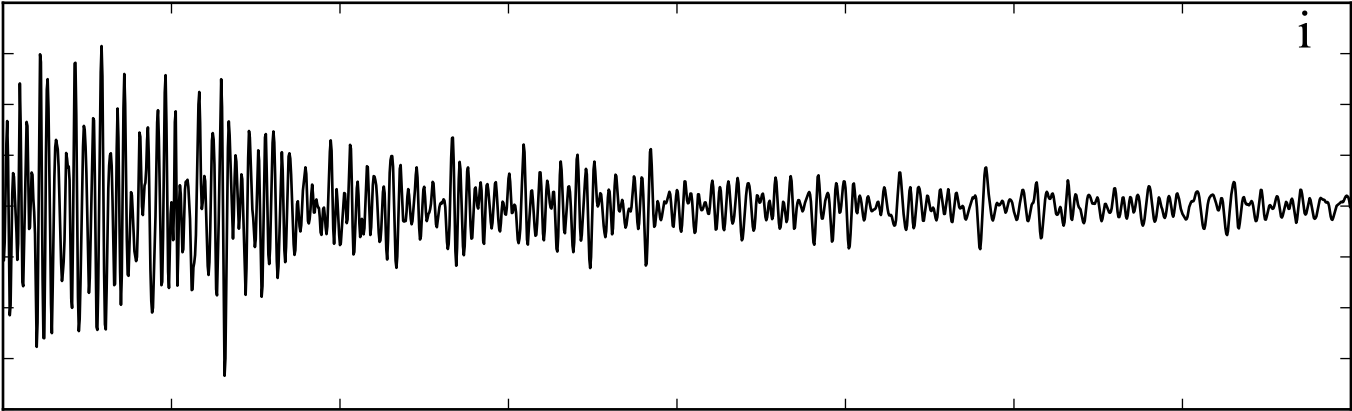
Time [s]





Time [s]




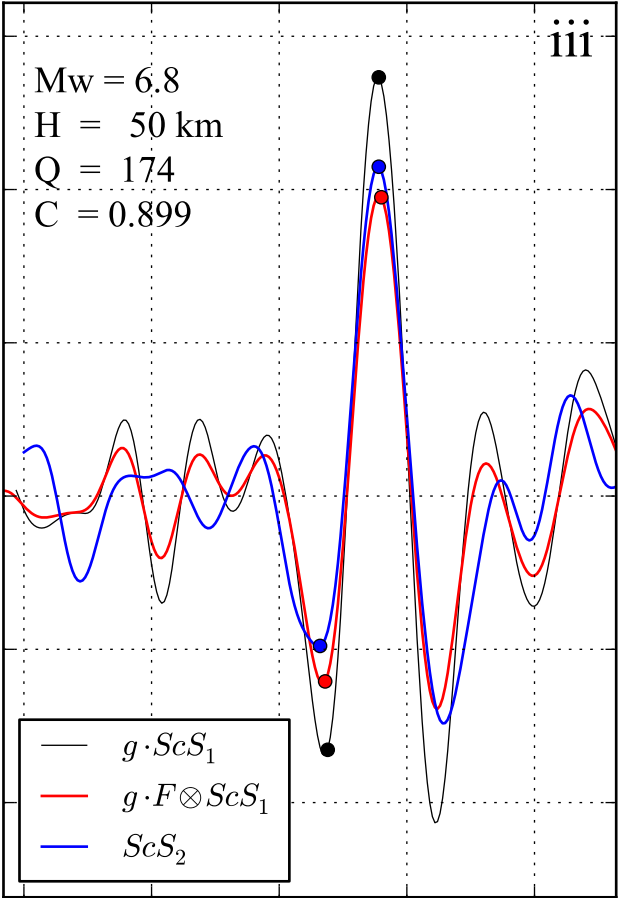


Time [s]

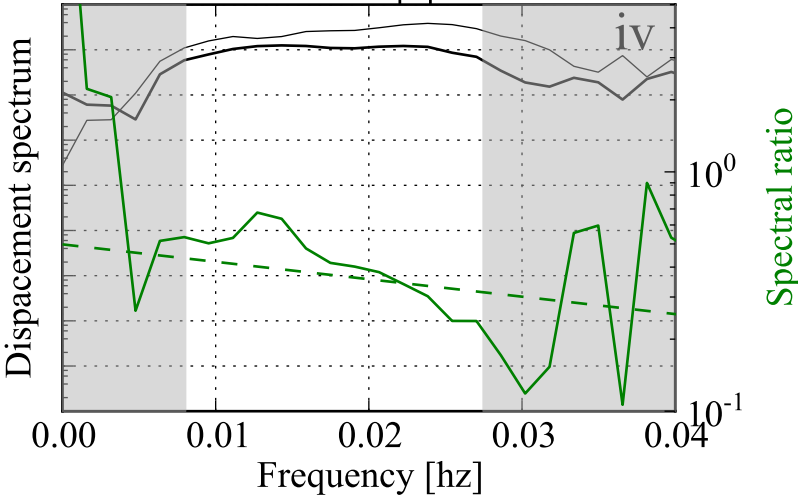
IU - YSS - 00 - LHN $\Delta/Az/Baz = 4.8^\circ/324^\circ/142^\circ$ $Srp=0.75$
2000.028.14.16.07.948.IU.YSS.00.LHN.SAC (2000/01/28)
 ScS_2-ScS_1 travel time: 932.2 τ : 46.0 s
Centroid: 43.080 146.810 50.0 km Mw 6.8
 $Q = 174$ $t^* = 5.3$ s
Quality control: signal/noise ScS_1 : 11.21 ScS_2 3.98 Correlation : 0.899

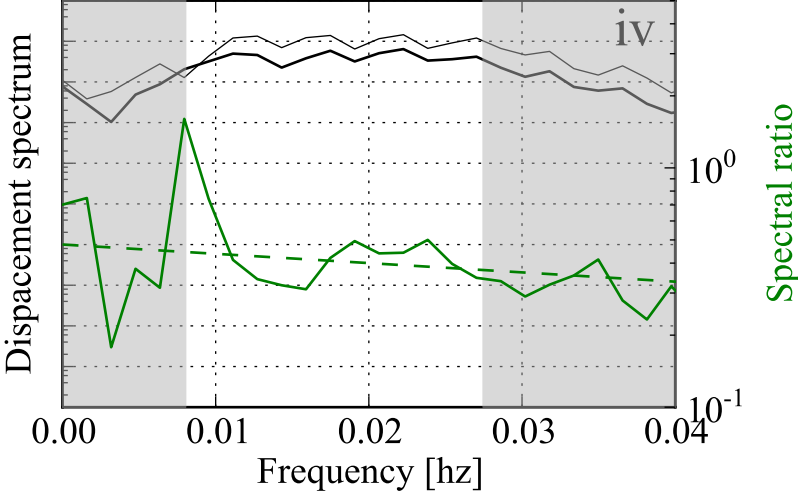
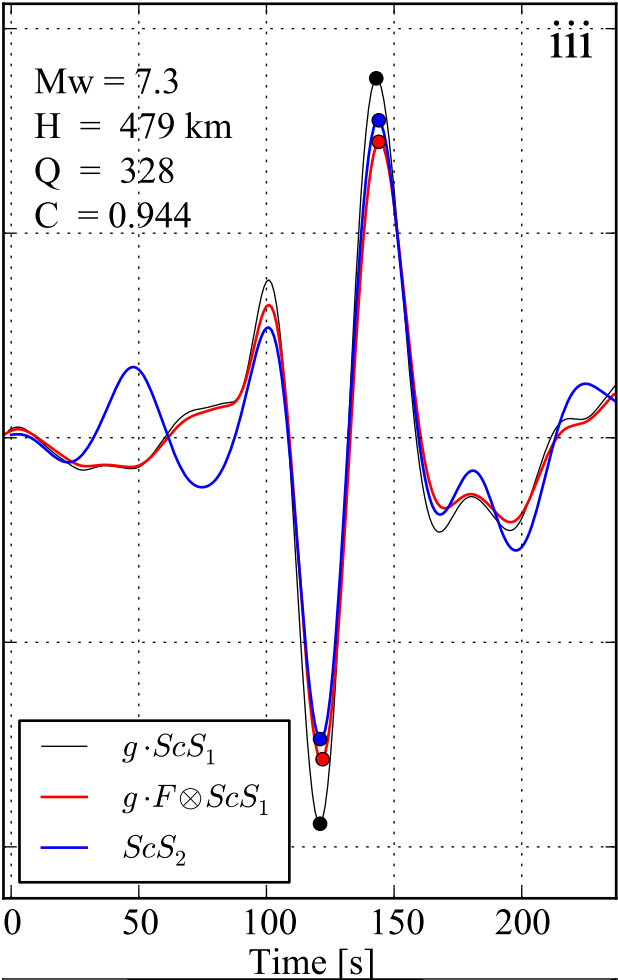
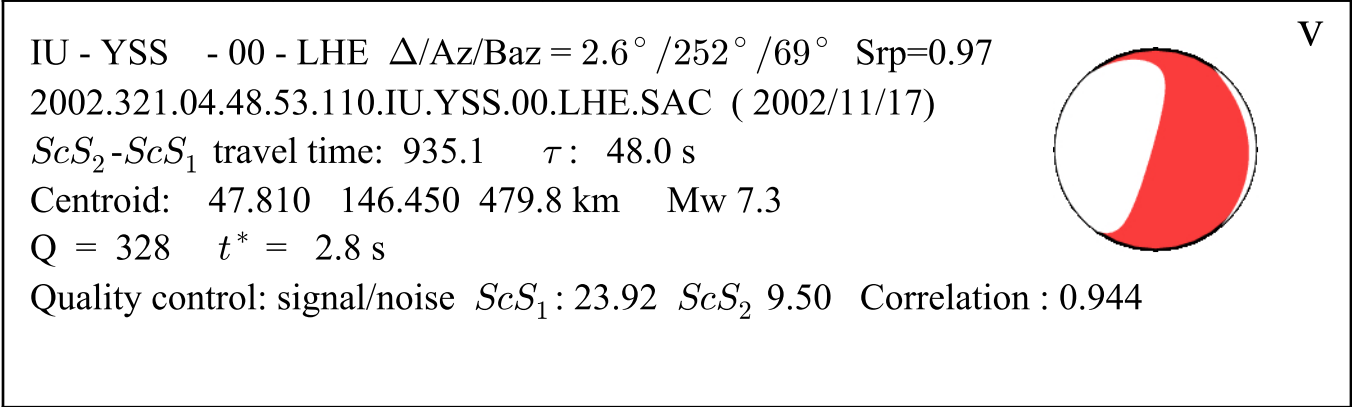
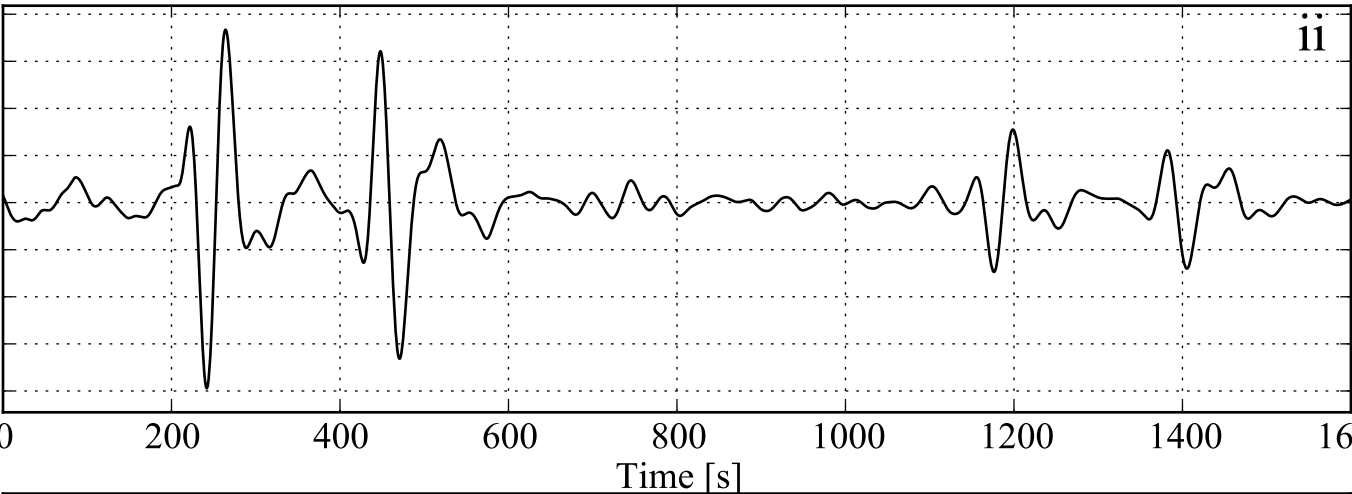
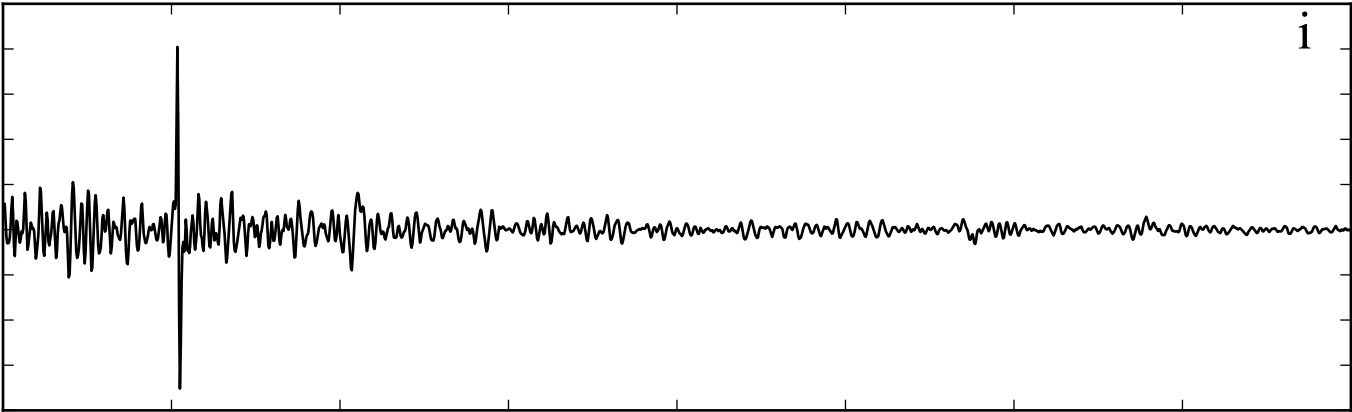
v

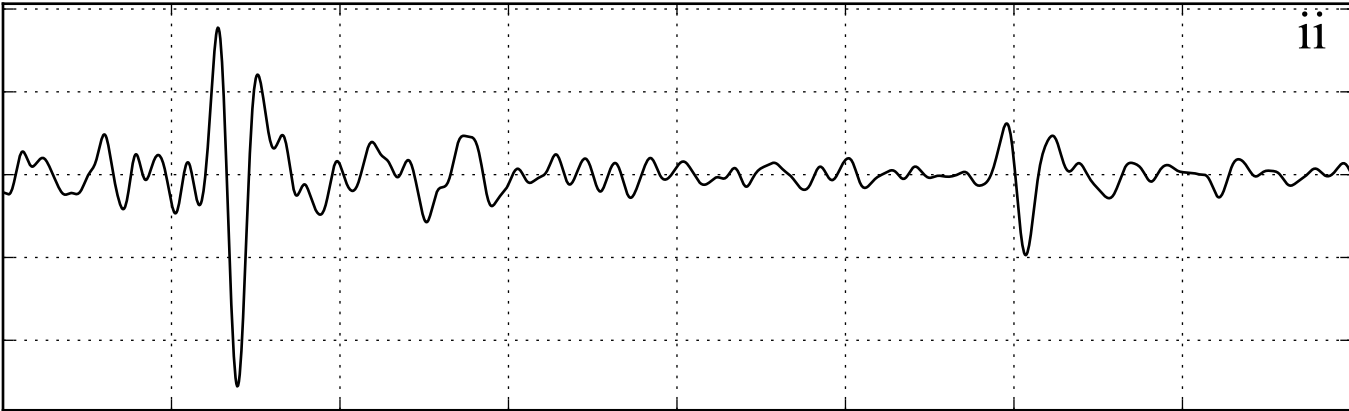
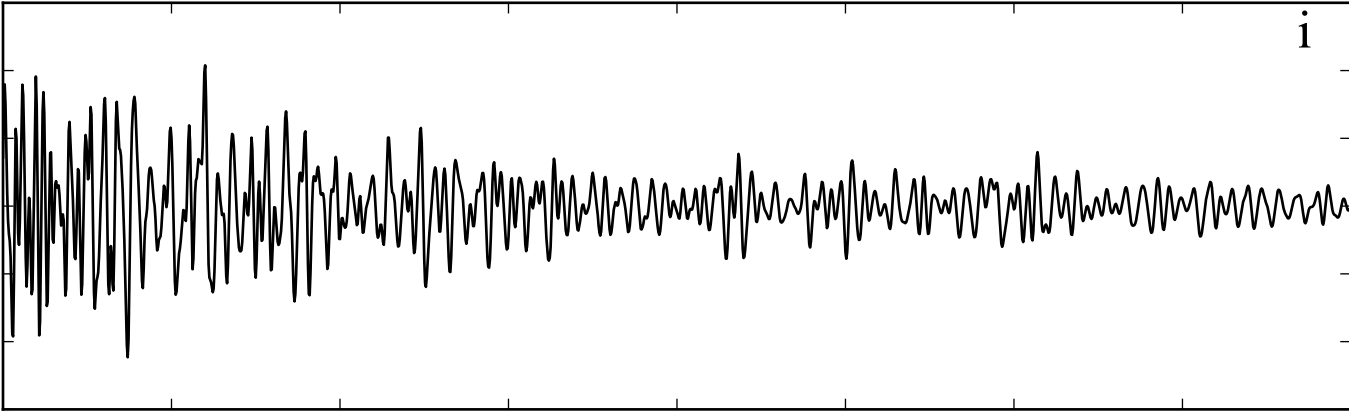




Time [s]



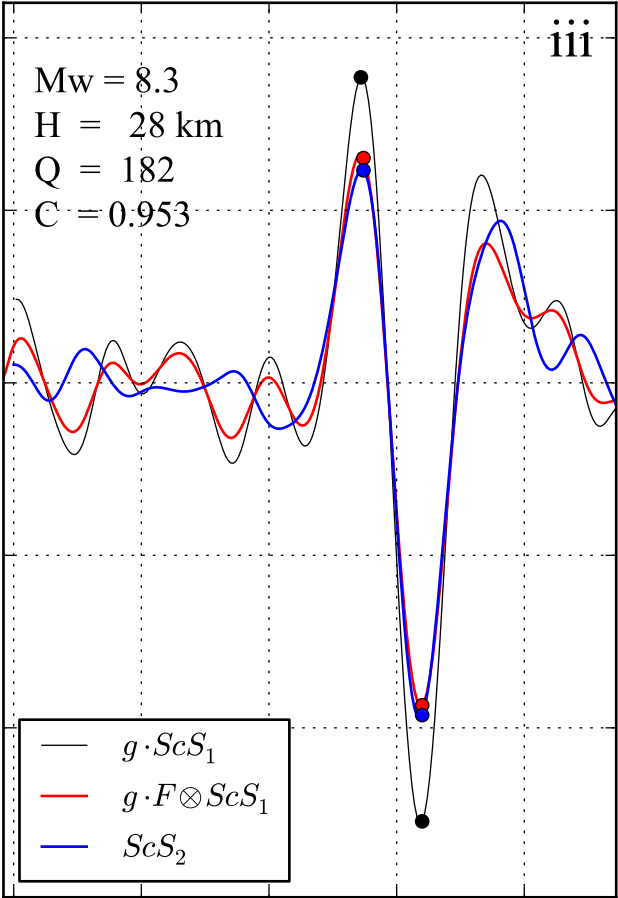





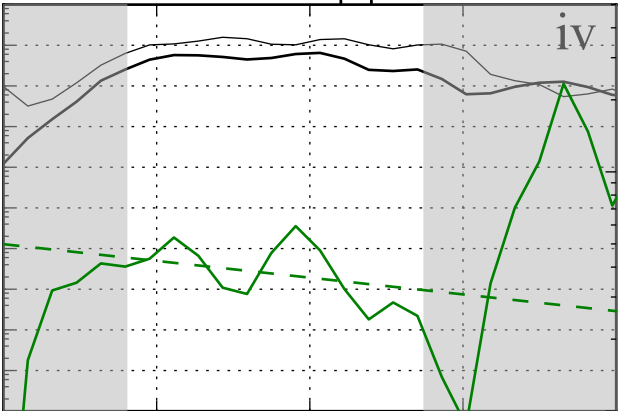
Time [s]

iu - YSS - 00 - LHE $\Delta/Az/Baz = 4.8^\circ/351^\circ/170^\circ$ $Srp=0.95$
2003.268.19.45.06.297.IU.YSS.00.LHE.SAC (2003/09/25)
 ScS_2 - ScS_1 travel time: 936.2 τ : 49.6 s
Centroid: 42.210 143.840 28.2 km Mw 8.3
 $Q = 182$ $t^* = 5.1$ s
Quality control: signal/noise ScS_1 : 16.50 ScS_2 6.03 Correlation : 0.953

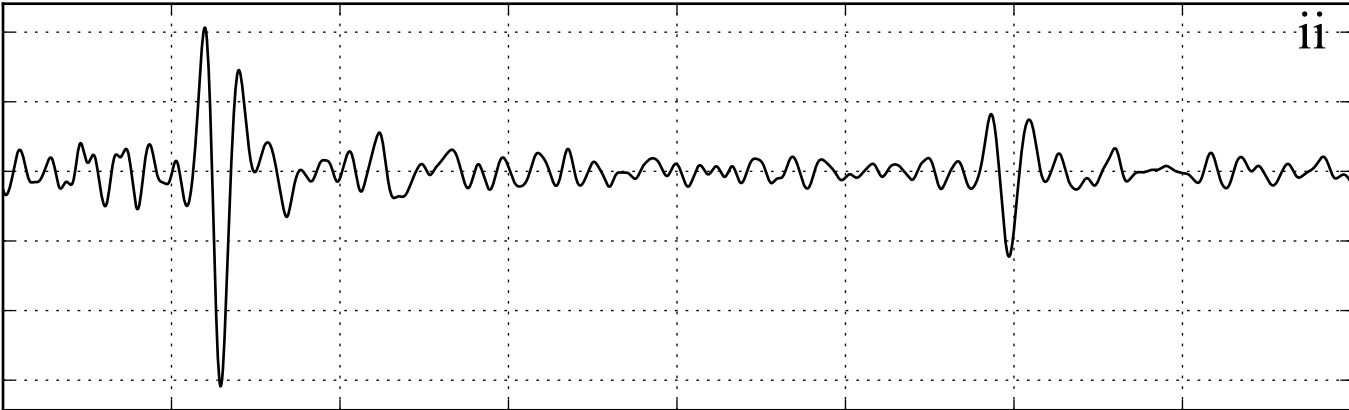
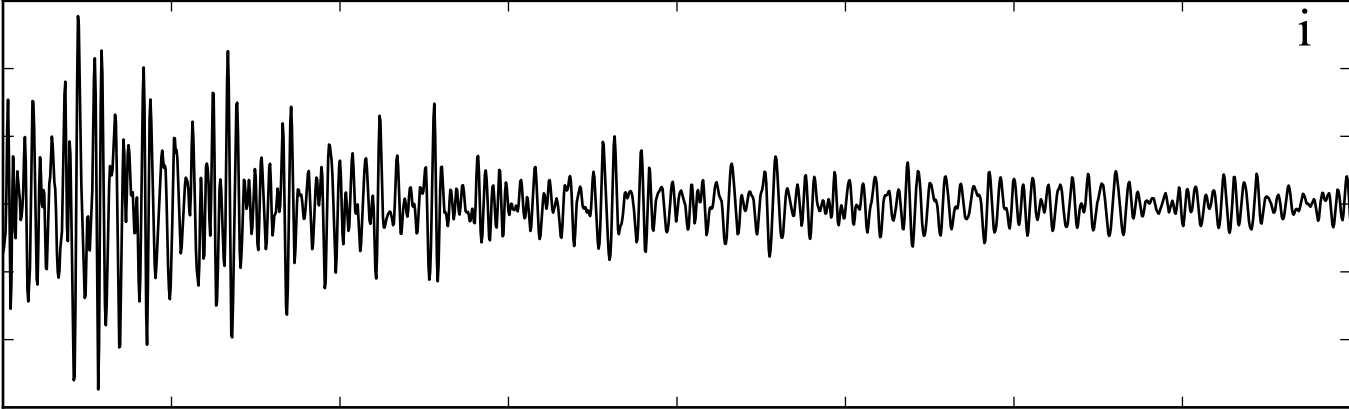
v



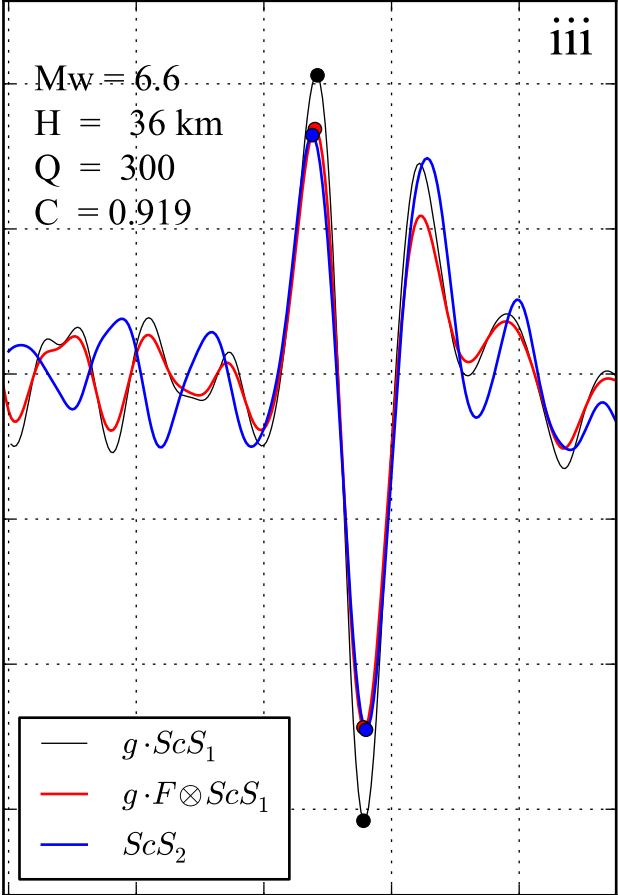
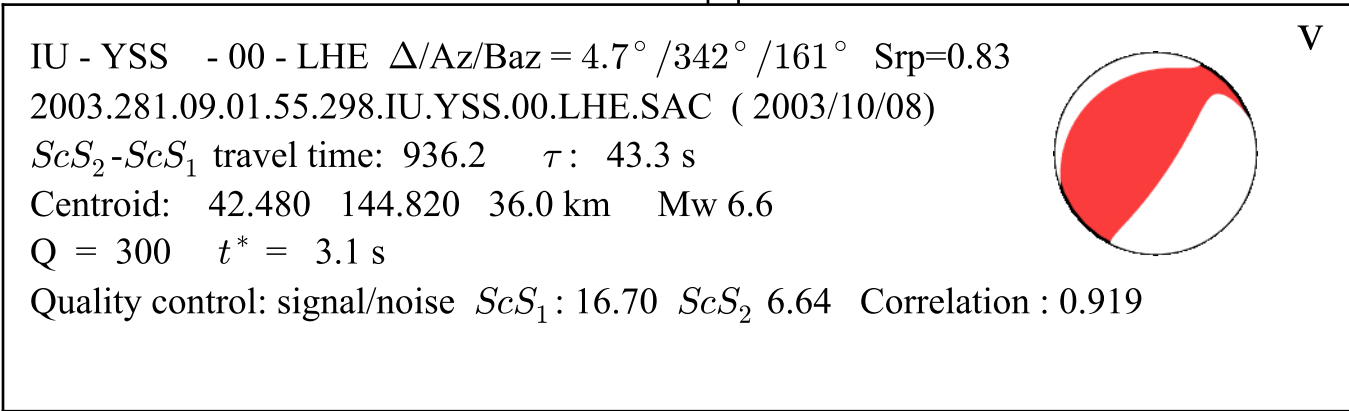
Time [s]



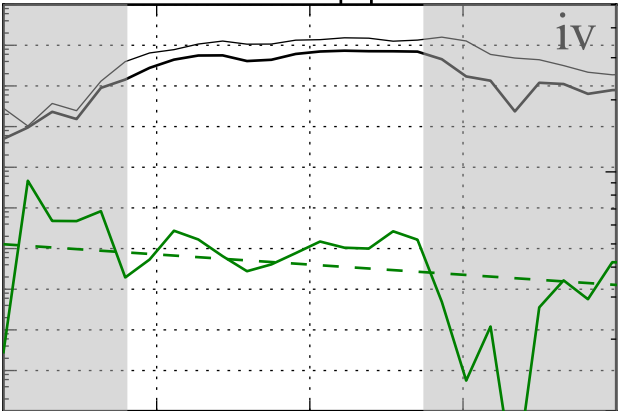
Frequency [hz]



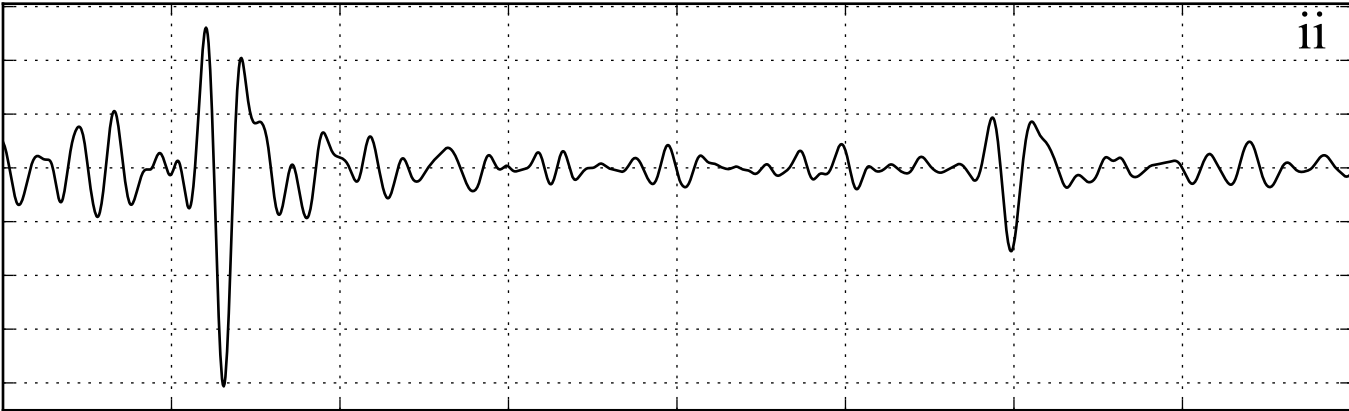
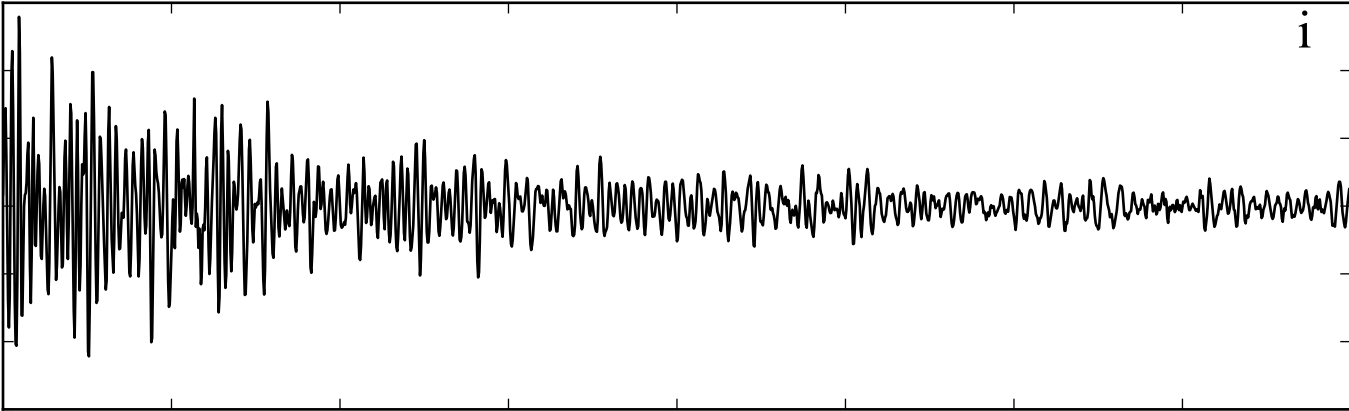
Time [s]



Time [s]



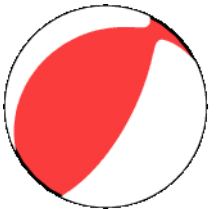
Frequency [hz]

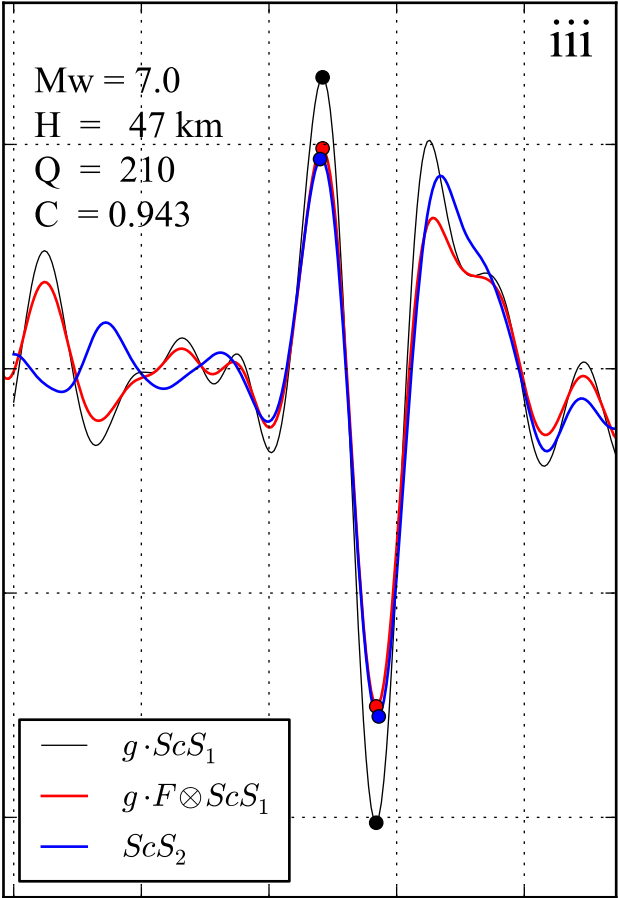


Time [s]

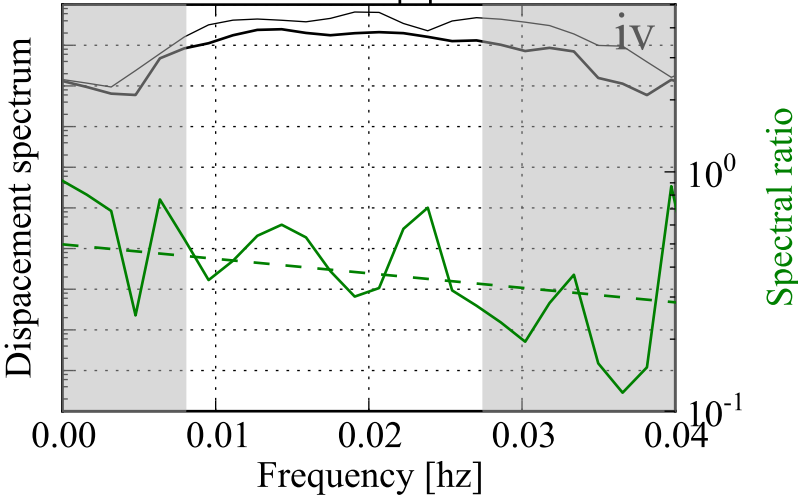
IU - YSS - 00 - LHE $\Delta/Az/Baz = 4.5^\circ/336^\circ/154^\circ$ $Srp=0.70$
2004.333.18.27.14.785.IU.YSS.00.LHE.SAC (2004/11/28)
 ScS_2-ScS_1 travel time: 935.3 τ : 45.7 s
Centroid: 42.880 145.360 47.0 km Mw 7.0
 $Q = 210$ $t^* = 4.4$ s
Quality control: signal/noise ScS_1 : 14.49 ScS_2 5.39 Correlation : 0.943

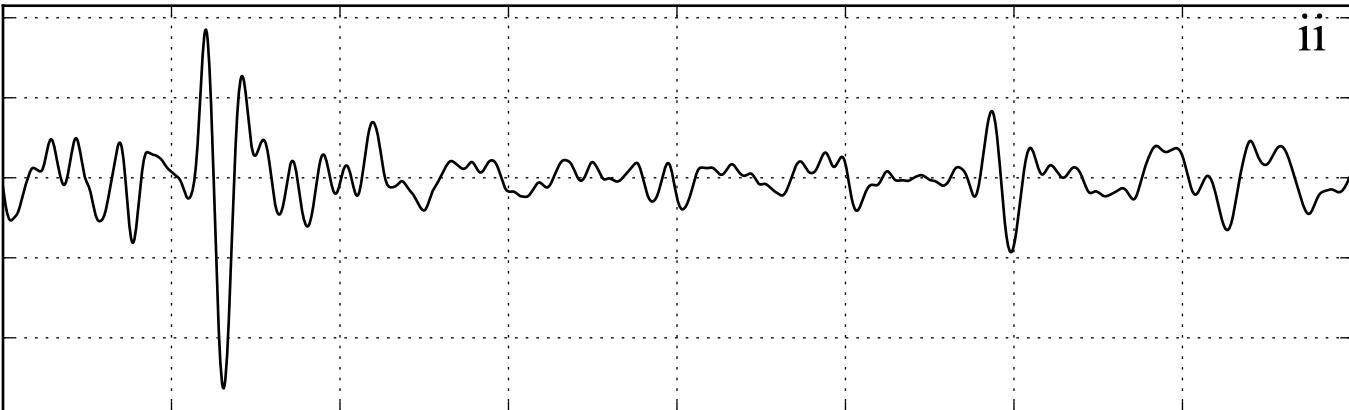
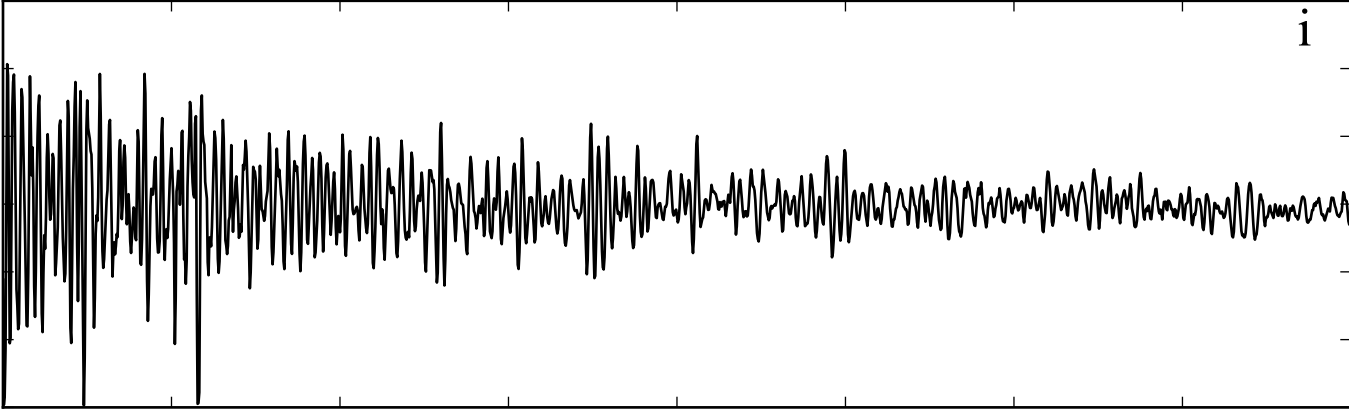
v





Time [s]

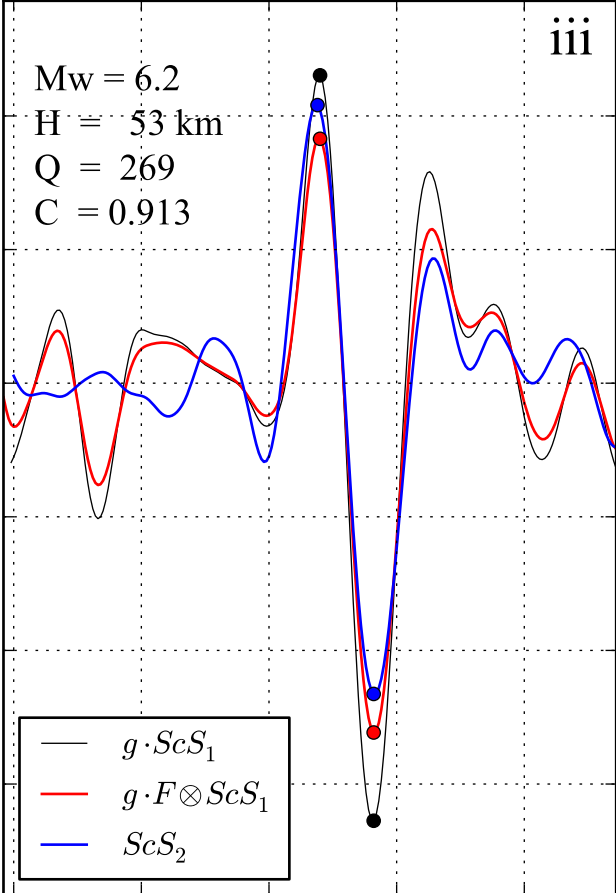





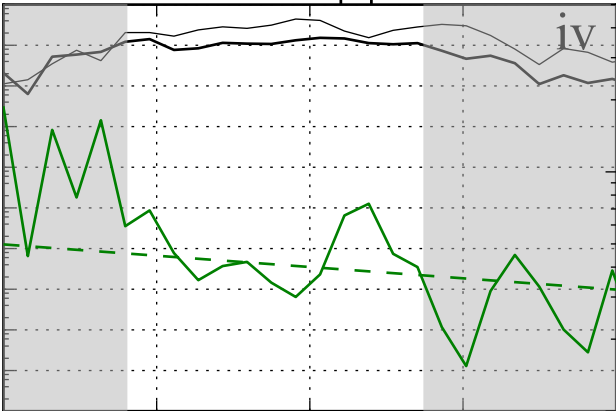
Time [s]

IU - YSS - 00 - LHE $\Delta/Az/Baz = 4.5^\circ/339^\circ/157^\circ$ Srp=0.58
2005.018.14.04.06.785.IU.YSS.00.LHE.SAC (2005/01/18)
 ScS_2 - ScS_1 travel time: 934.3 τ : 46.1 s
Centroid: 42.800 145.060 53.0 km Mw 6.2
 $Q = 269$ $t^* = 3.5$ s
Quality control: signal/noise ScS_1 : 9.66 ScS_2 3.80 Correlation : 0.913

v

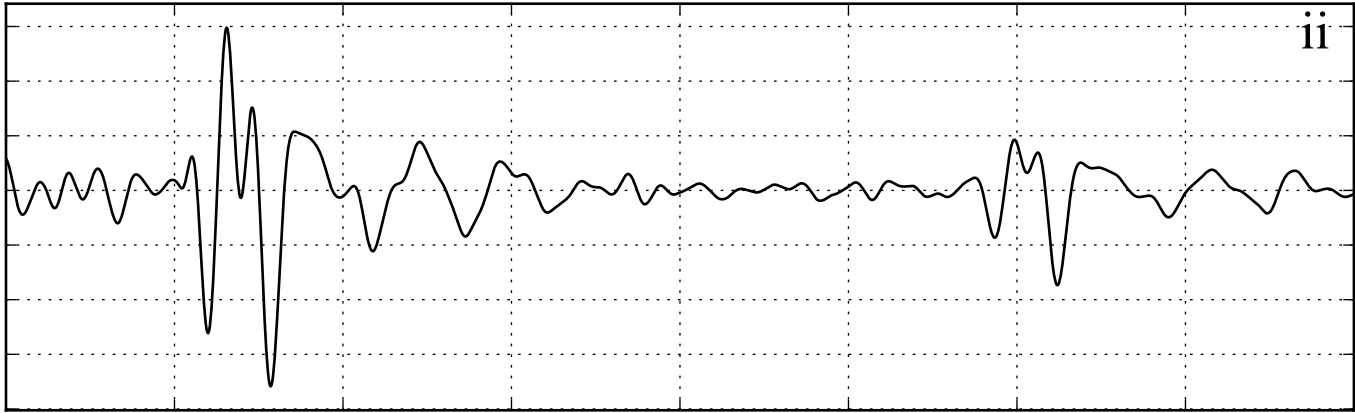
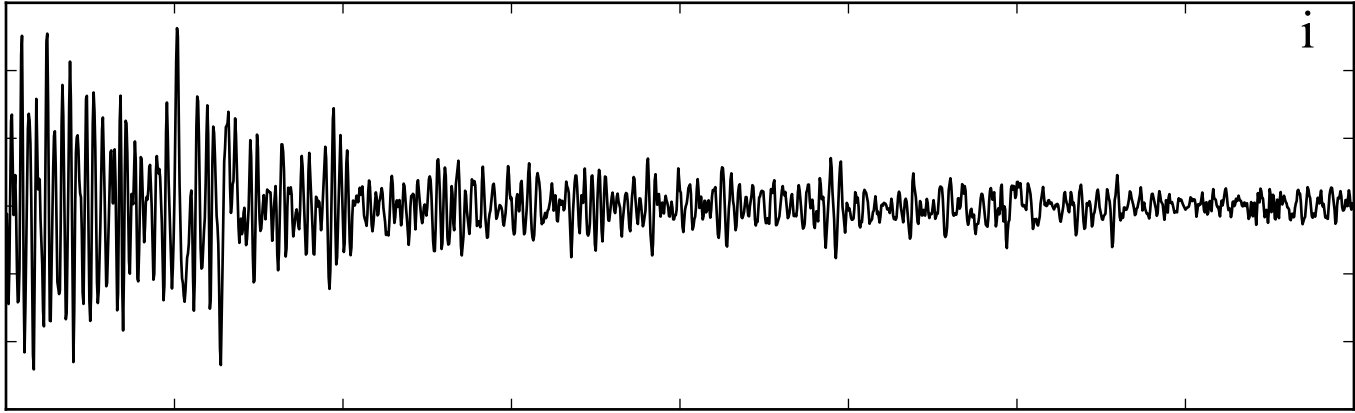


Time [s]

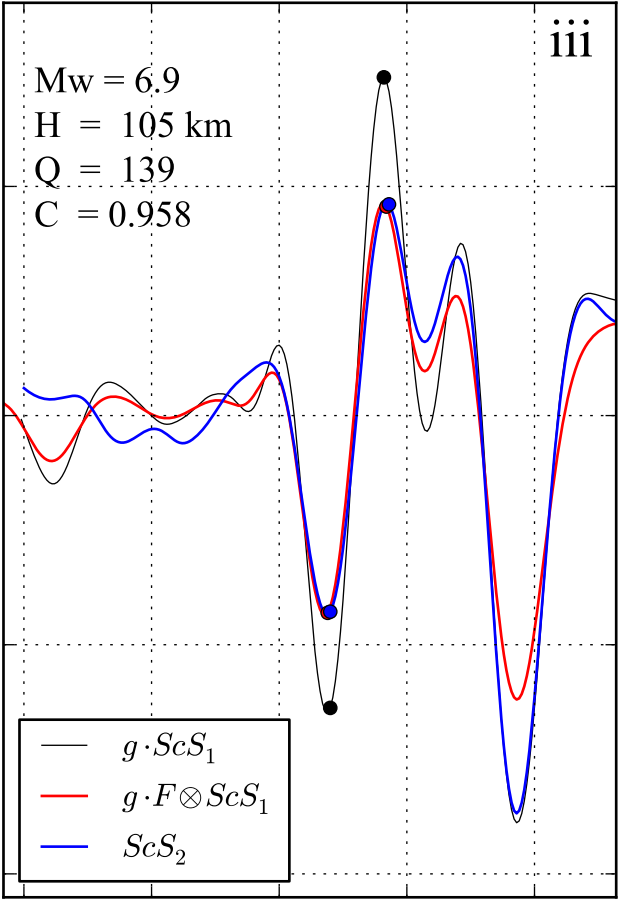
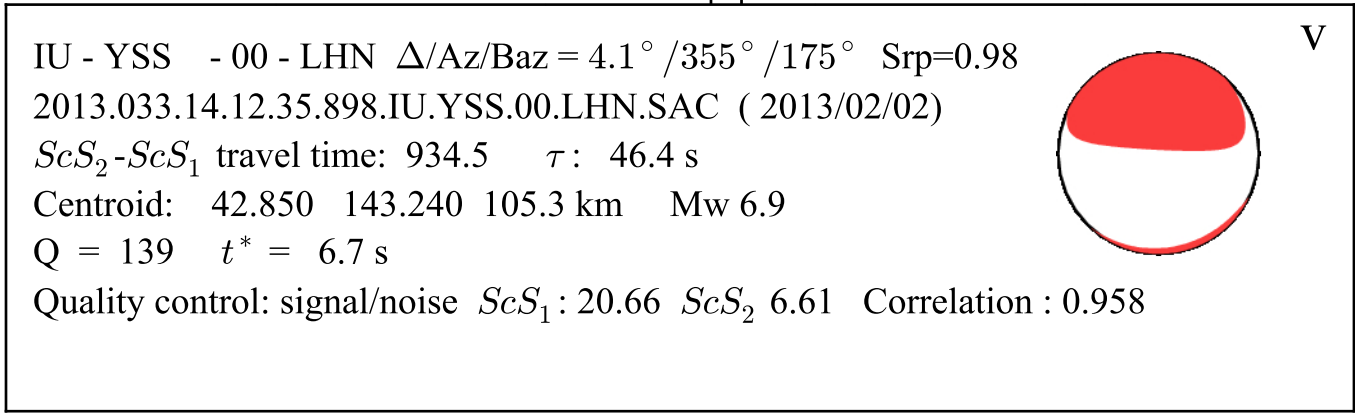


Frequency [hz]

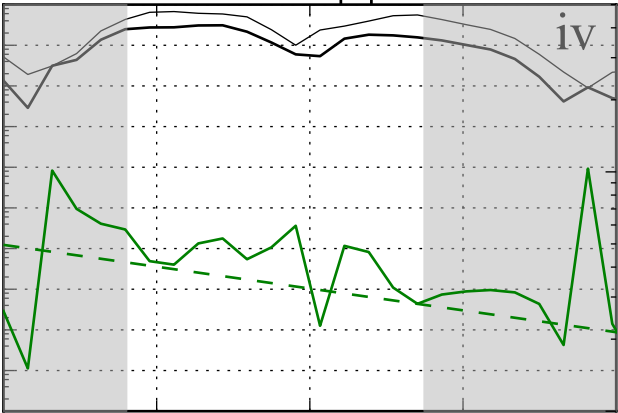
Spectral ratio



Time [s]



Time [s]



Frequency [hz]

Spectral ratio