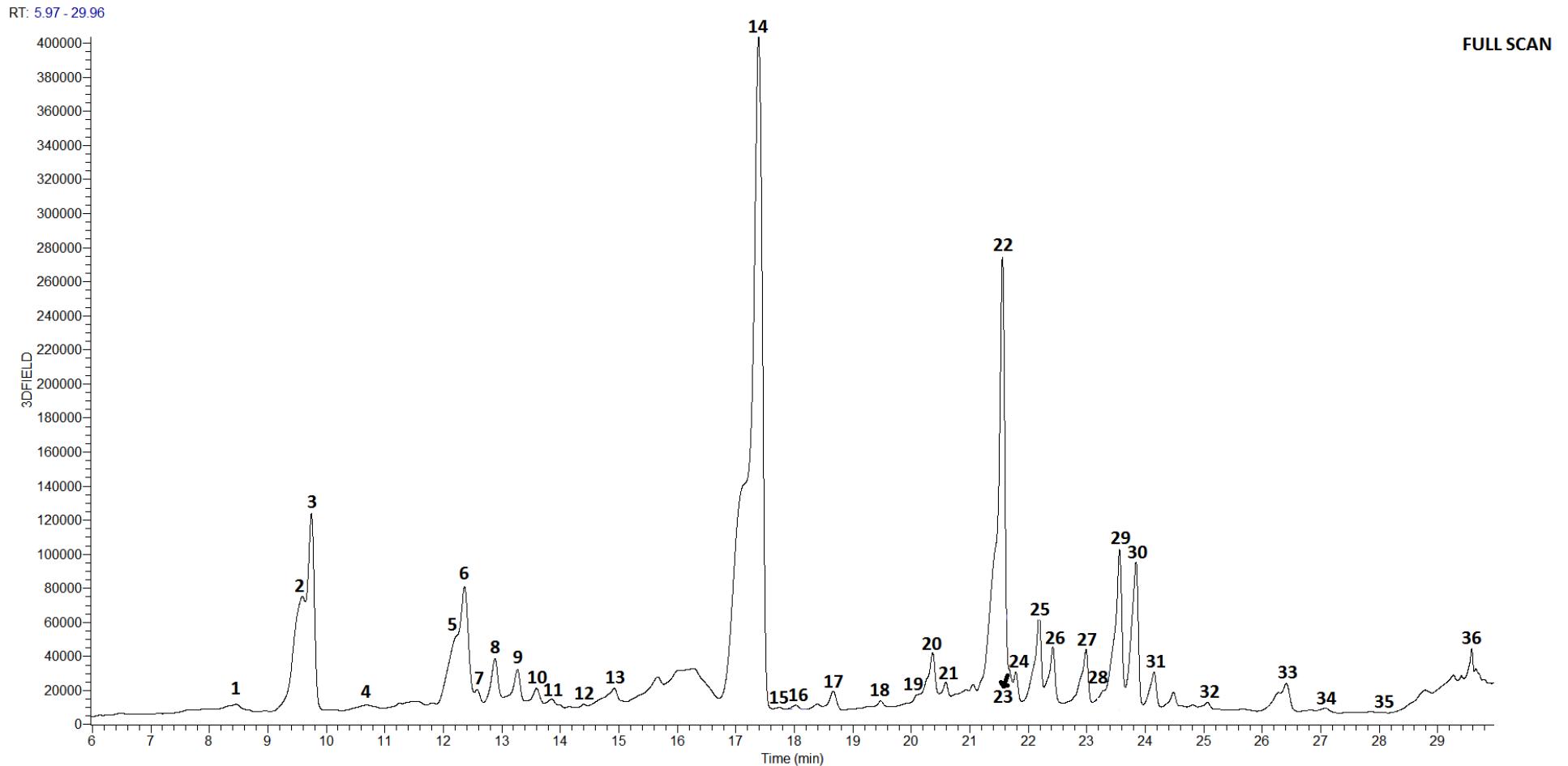


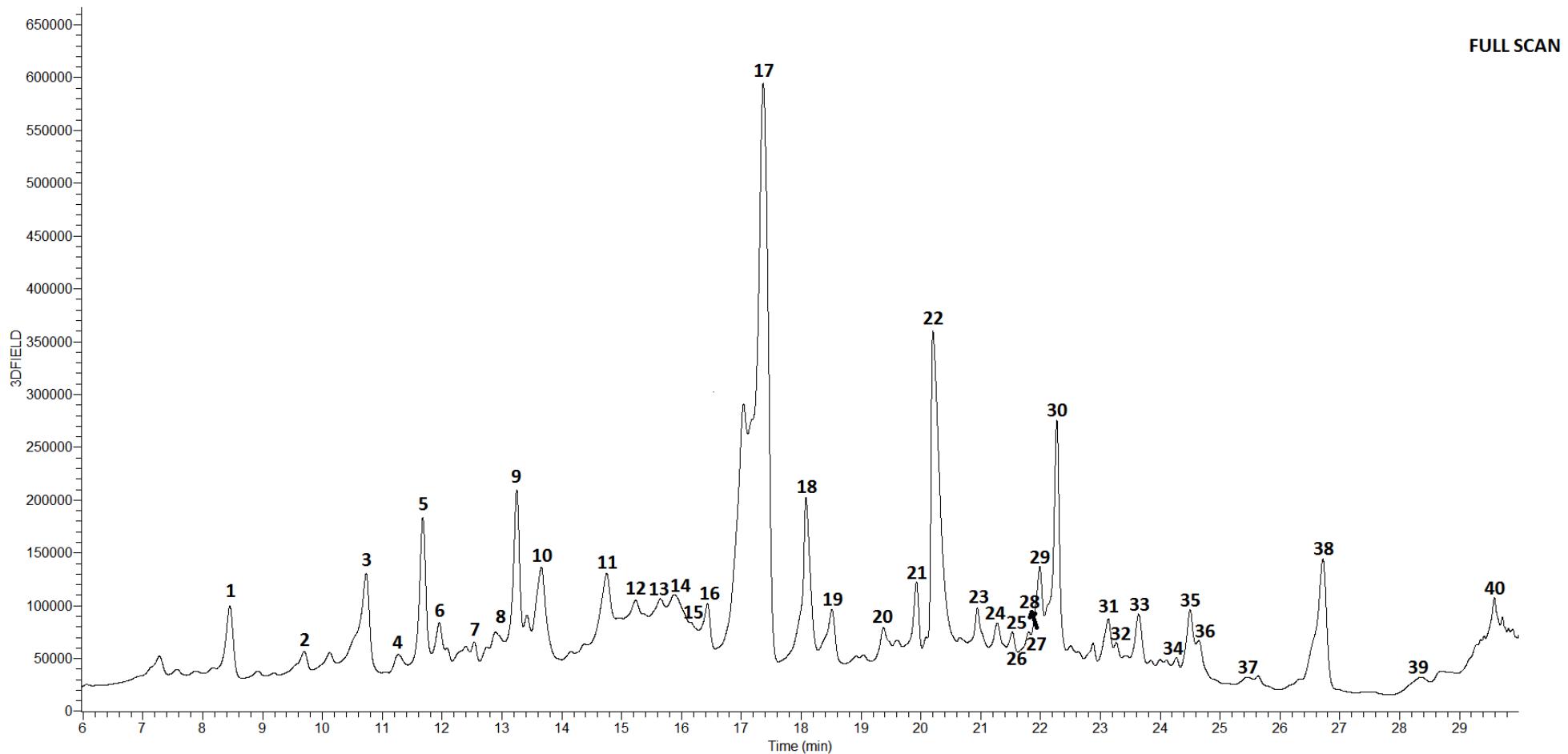
Figure S1. Full scan on a HPLC-MS, and the phenolic compounds identified for *J. regia* leaves.



1= Epigallocatechin; **2**= Procyanidin dimer 1; **3**= Neochlorogenic acid (3-caffeoylelquinic acid); **4**= Procyanidin dimer 2; **5**= Procyanidin dimer 3; **6**=3-p-Coumaroylquinic acid; **7**= Cryptochlorogenic acid (4-caffeoylelquinic acid); **8**=(+)-Catechin; **9**= Dihydroxytetralone hexoside; **10**= Hydrojuglone derivative 1; **11**= Chlorogenic acid (5-caffeoylelquinic acid); **12**= Hydrojuglone hexoside derivative 1; **13**=5-Hydroxy-2,3-dihydro-1,4-naphthalenedione; **14**= Hydrojuglone- β -D-glucopyranoside; **15**= Myricetin-3-galactoside; **16**= Hydrojuglone derivative 2; **17**= Hydrojuglone derivative pentoside 1; **18**= Tetralone hexoside; **19**= Myricetin-3-rhamnoside; **20**= Quercetin-3-galactoside; **21**= Quercetin-3-glucoside; **22**= Hydrojuglone derivative pentoside 2; **23**= Kaempferol-3-glucoside; **24**= Quercetin-3-arabinopyranoside; **25**= Quercetin-3-arabinofuranoside; **26**= Quercetin-3-rhamnoside; **27**= Kaempferol-3-pentoside 1; **28**= Dihydrokaempferol pentoside 1; **29**= Dihydrokaempferol pentoside 2; **30**= Kaempferol-3-pentoside 2; **31**= Kaempferol-3-rhamnoside; **32**= Caffeic acid hexoside derivative; **33**= p-Coumaric acid hexoside derivative 2; **34**= Hydrojuglone dihexoside derivative; **35**=1,4-napthoquinone and hydrojuglone; **36**= Juglone (5-hydroxy-1,4-napthoquinone)

Figure S2. Full scan on a HPLC-MS, and the phenolic compounds identified for *J. regia* side roots.

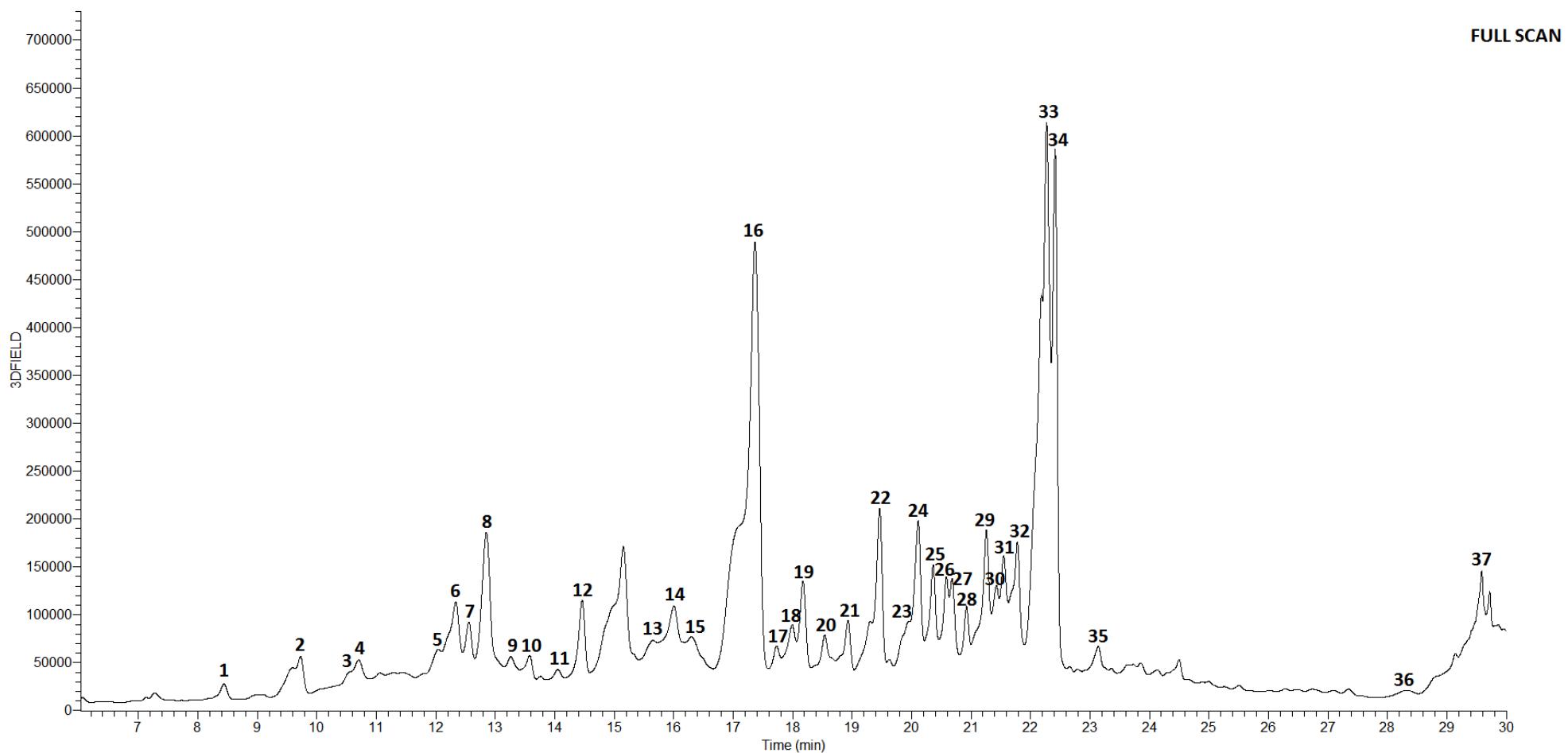
RT: 5.97 - 29.99



1= bis-HHDP-glucose 1 ; 2=1-O-(4-Hydroxy-3,5-dimetoxybenzoyl) -D-glucopyranoside; 3= bis-HHDP-glucose 2; 4= Gallic acid derivative 1; 5= Gallic acid derivative 2; 6= Ellagic acid derivative 1; 7= Tellimagrandin isomer (digalloyl-HHDP-glucose) 1; 8= Strictin/isostricin isomer (galloyl-HHDP-glucose); 9=(+)-Catechin; 10= Ellagic acid derivative 2; 11= Hydrojuglone derivative 1; 12= Ellagic acid derivative 3; 13= Ellagic acid derivative 4; 14= Ellagic acid derivative 5; 15= Tellimagrandin isomer (digalloyl-HHDP-glucose) 2; 16= Trigalloyl-glucose isomer; 17= Hydrojuglone- β -D-glucopyranoside; 18= Ellagic acid pentoside; 19= Gallic acid derivative 6; 20= Tetralone hexoside; 21= Gallic acid derivative 7; 22= Ellagic acid; 23= Gallic acid derivative 8; 24= Digalloylgallate; 25= Gallic acid derivative 9; 26= Hydrojuglone derivative rhamnoside; 27= Gallic acid derivative 10; 28= Hydrojuglone derivative pentoside 2; 29=3-O-Methylellagic acid-4-O- β -D-arabinopyranoside; 30= Gallic acid derivative 11; 31= p-Coumaric acid hexoside derivative 1; 32= Gallic acid derivative 12; 33=1- β -D-Glucopyranosyloxy-4,8-dihydroxy-2-napthoic acid; 34=1,4,8-trihydroxynaphthalene-1-D-glucopyranoside; 35= Isofraxidin; 36= Isofraxidin derivative; 37= Hydrojuglone derivative 5; 38= Hydrojuglone derivative 6; 39=1,4-napthoquinone and hydrojuglone; 40= Juglone (5-hydroxy-1,4-napthoquinone)

Figure S3. Full scan on a HPLC-MS, and the phenolic compounds identified for *J. regia* buds.

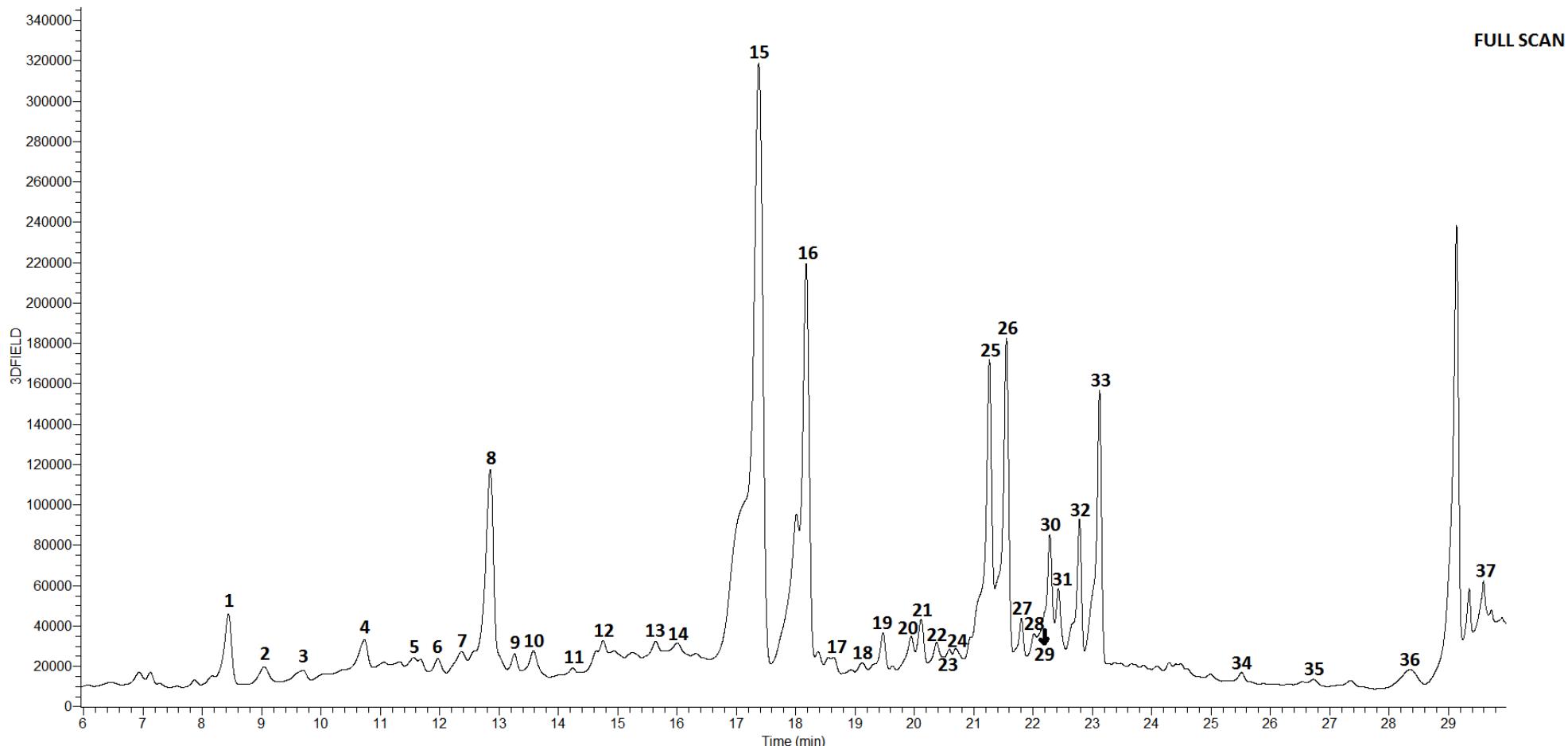
RT: 6.03 - 30.00



1= Epigallocatechin; 2= Neochlorogenic acid (3-caffeoylequinic acid); 3= bis-HHDP-glucose 2; 4=(epi)Catechin isomer; 5= Procyanidin dimer 3; 6=3-p-Coumaroylquinic acid; 7= Cryptochlorogenic acid (4-caffeoylequinic acid); 8=(+)Catechin; 9= Dihydroxytetralone hexoside; 10= Hydrojuglone derivative 1; 11= Chlorogenic acid (5-caffeoylequinic acid); 12= Hydrojuglone dihexoside; 13= Ellagic acid derivative 5; 14= p-Coumaroylquinic acid; 15= Myricetin galloyl hexoside; 16= Hydrojuglone- β -D-glucopyranoside; 17= Myricetin-3-galactoside; 18= Hydrojuglone derivative 2; 19= Hydrojuglone derivative 3; 20= Gallic acid derivative 4; 21= Quercetin galloyl hexoside; 22= Tetralone hexoside; 23= Gallic acid derivative 7; 24= Myricetin-3-rhamnoside; 25= Quercetin-3-galactoside; 26= Quercetin-3-glucoside; 27=(epi)Catechin galloyl; 28= Trihydroxytetralone galloyl hexoside; 29= Hydrojuglone derivative rhamnoside; 30= Gallic acid derivative 10; 31= Hydrojuglone derivative pentoside 2; 32= Quercetin-3-arabinopyranoside; 33= Gallic acid derivative 11; 34= Quercetin-3-rhamnoside; 35= p-Coumaric acid hexoside derivative 1; 36=1,4-naphthoquinone and hydrojuglone; 37= Juglone (5-hydroxy-1,4-naphthoquinone)

Figure S4. Full scan on a HPLC-MS, and the phenolic compounds identified for *J. regia* one-year old bark.

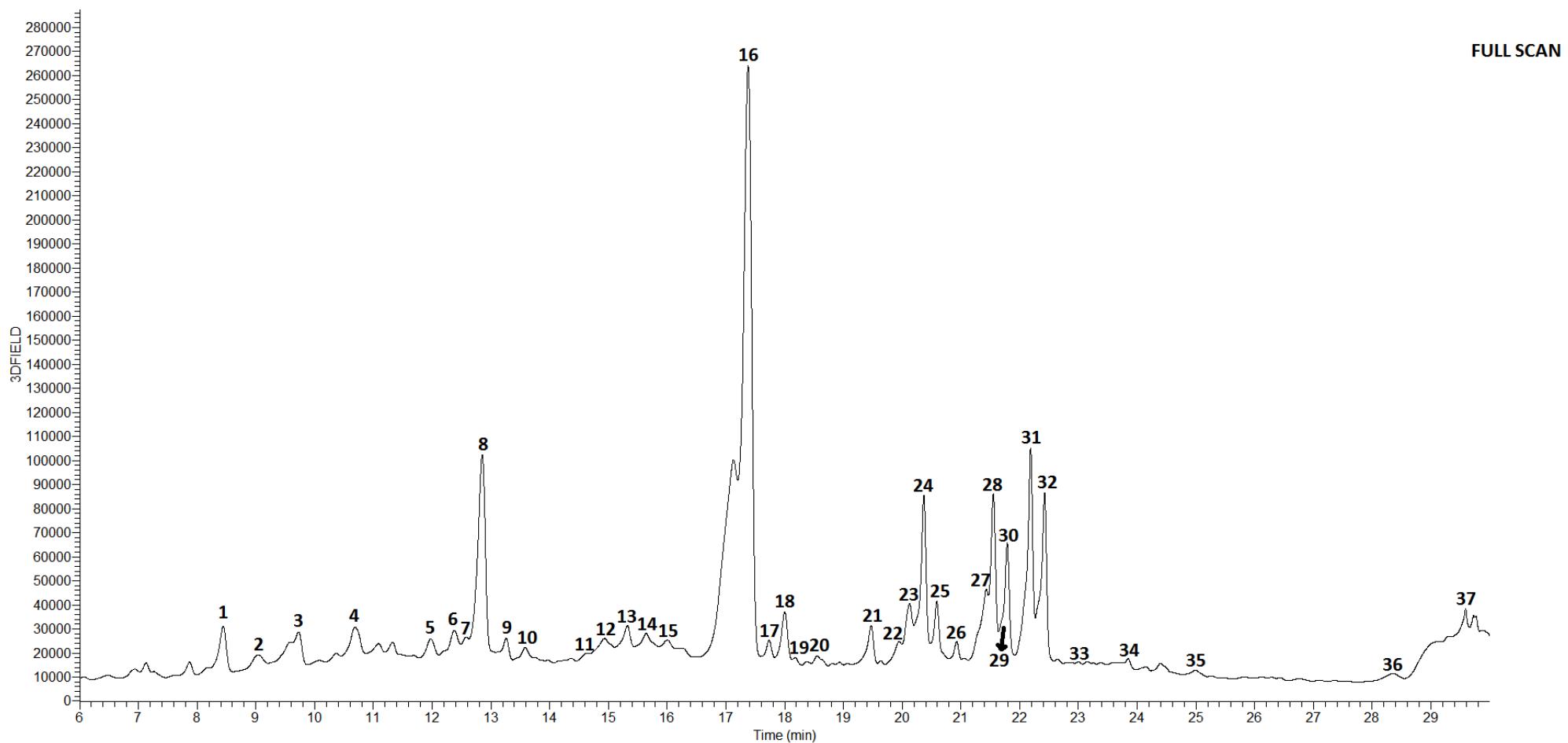
RT: 5.95 - 29.97



1= Epigallocatechin; **2**=(epi)Catechin derivative 1; **3**=1-O-(4-Hydroxy-3,5-dimethoxybenzoyl) -D-glucopyranoside; **4**= bis-HHDP-glucose 2; **5**= Gallic acid derivative 3; **6**= Procyanidin dimer 3; **7**= Strictin/isostricin isomer (galloyl-HHDP-glucose); **8**=(+)-Catechin; **9**= Dihydroxytetralone hexoside; **10**= Hydrojuglone derivative 1; **11**=(epi)Catechin dihexoside; **12**= Ellagic acid derivative 3; **13**= Ellagic acid derivative 5; **14**= p-Coumaroylquinic acid; **15**= Hydrojuglone- β -D-glucopyranoside; **16**= Hydrojuglone derivative 3; **17**= Gallic acid derivative 5; **18**= Hydrojuglone derivative 4; **19**= Tetralone hexoside; **20**= Gallic acid derivative 7; **21**= Myricetin-3-rhamnoside; **22**= Quercetin-3-galactoside; **23**= Ellagic acid; **24**=(epi)Catechin galloyl; **25**= Hydrojuglone derivative rhamnoside; **26**= Hydrojuglone derivative pentoside 2; **27**= Quercetin-3-arabinopyranoside; **28**= Gallic acid derivative 10; **29**=3-O-Methylellagic acid-4-O- β -D-arabinopyranoside; **30**= Gallic acid derivative 11; **31**= Quercetin-3-rhamnoside; **32**= Kaempferol-7-hexoside 1; **33**= Kaempferol-7-hexoside 2; **34**= Hydrojuglone derivative 5; **35**= Hydrojuglone derivative 6; **36**=1,4-naphthoquinone and hydrojuglone; **37**= Juglone (5-hydroxy-1,4-naphthoquinone)

Figure S5. Full scan on a HPLC-MS, and the phenolic compounds identified for *J. regia* petiole.

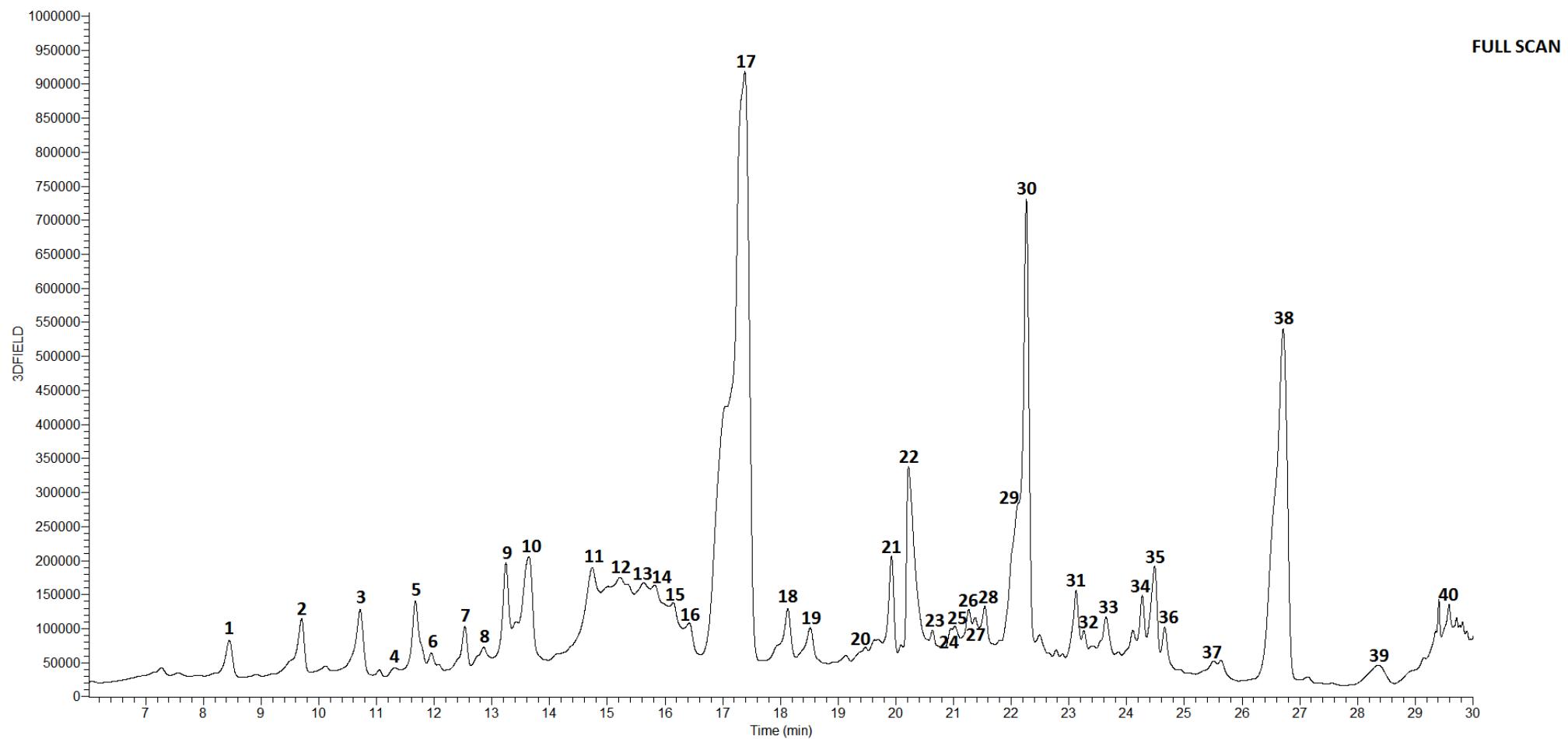
RT: 6.00 - 30.00



1= Epigallocatechin; 2= Procyanidin dimer 1; 3= Neochlorogenic acid (3-caffeoylquinic acid); 4= Procyanidin dimer 2; 5= Procyanidin dimer 3; 6=3-p-Coumaroylquinic acid; 7= Cryptochlorogenic acid (4-caffeoylquinic acid); 8=(+)-Catechin; 9= Dihydroxytetralone hexoside; 10= Hydrojuglone derivative 1; 11= Hydrojuglone hexoside derivative 1; 12=5-Hydroxy-2,3-dihydro-1,4-naphthalenedione; 13=(-)-Epicatechin; 14= Procyanidin dimer 4; 15= p-Coumaroylquinic acid; 16= Hydrojuglone- β -D-glucopyranoside; 17= Myricetin-3-galactoside; 18= Hydrojuglone derivative 2; 19= Myricetin-3-glucoside; 20= Hydrojuglone derivative pentoside 1; 21= Tetralone hexoside; 22= Myricetin pentoside; 23= Myricetin-3-rhamnoside; 24= Quercetin-3-galactoside; 25= Quercetin-3-glucoside; 26= Trihydroxytetralone galloyl hexoside; 27= Quercetin-3-xyloside; 28= Hydrojuglone derivative pentoside 2; 29= Kaempferol-3-glucoside; 30= Quercetin-3-arabinopyranoside; 31= Quercetin-3-arabinofuranoside; 32= Quercetin-3-rhamnoside; 33= Kaempferol-3-pentoside 1; 34= Kaempferol-3-pentoside 2; 35= Caffeic acid hexoside derivative; 36=1,4-napthoquinone and hydrojuglone; 37= Juglone (5-hydroxy-1,4-napthoquinone)

Figure S6. Full scan on a HPLC-MS, and the phenolic compounds identified for *J. regia* main root.

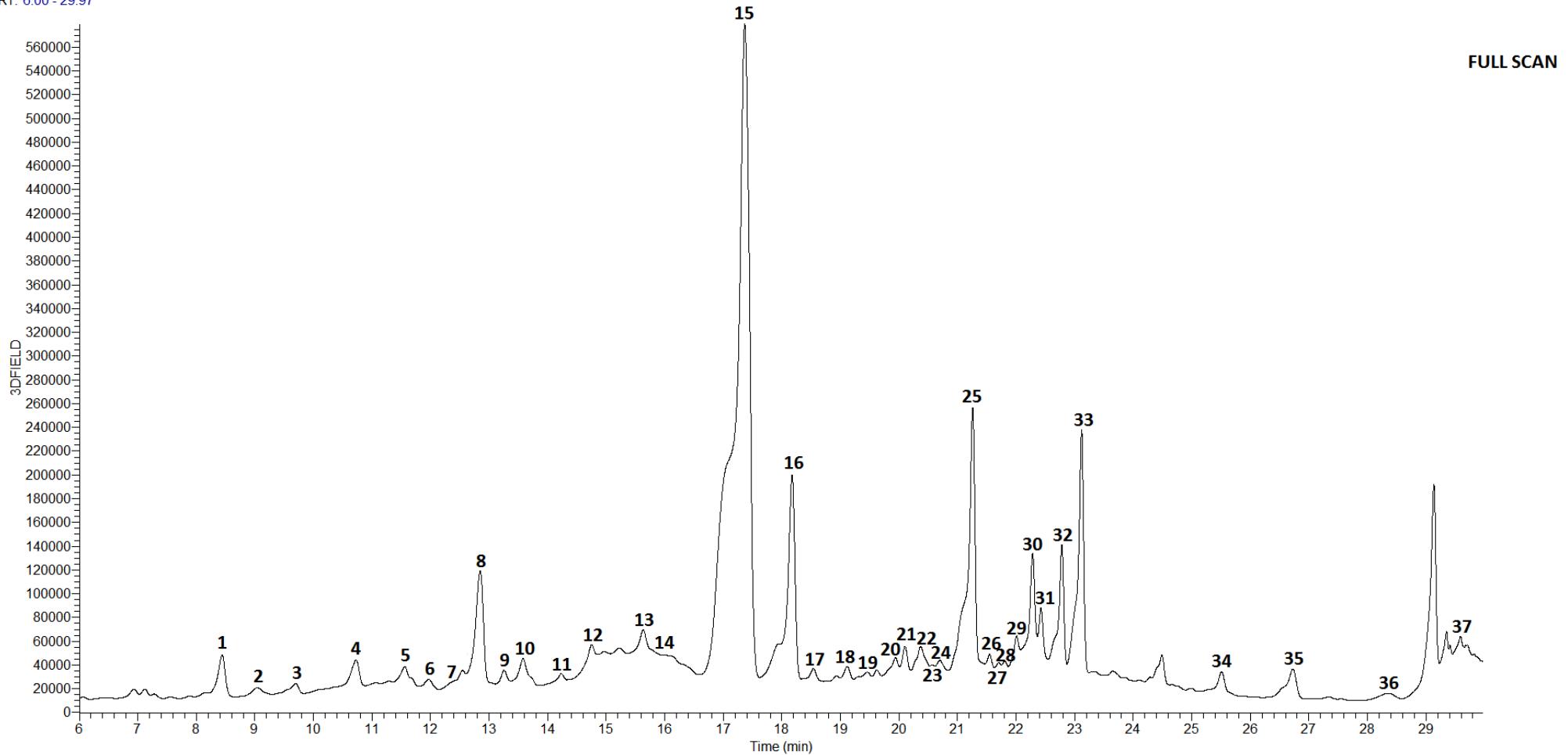
RT: 6.01 - 30.01



1= bis-HHDP-glucose 1 ; 2=1-O-(4-Hydroxy-3,5-dimetoxybenzoyl) -D-glucopyranoside; 3= bis-HHDP-glucose 2; 4= Gallic acid derivative 1; 5= Gallic acid derivative 2; 6= Ellagic acid derivative 1; 7= Tellimagrandin isomer (digalloyl-HHDP-glucose) 1; 8= Strictin/isostictin isomer (galloyl-HHDP-glucose); 9=(+)Catechin; 10= Ellagic acid derivative 2; 11= Hydrojuglone derivative 1; 12= Ellagic acid derivative 3; 13= Ellagic acid derivative 4; 14= Ellagic acid derivative 5; 15= Tellimagrandin isomer (digalloyl-HHDP-glucose) 2; 16= Trigalloyl-glucose isomer; 17= Hydrojuglone- β -D-glucopyranoside; 18= Ellagic acid pentoside; 19= Gallic acid derivative 6; 20= Tetralone hexoside; 21= Gallic acid derivative 7; 22= Ellagic acid; 23= Gallic acid derivative 8; 24= Digalloylgallate; 25= Gallic acid derivative 9; 26= Hydrojuglone derivative rhamnoside; 27= Gallic acid derivative 10; 28= Hydrojuglone derivative pentoside 2; 29=3-O-Methylellagic acid-4-O- β -D-arabinopyranoside; 30= Gallic acid derivative 11; 31= p-Coumaric acid hexoside derivative1; 32= Gallic acid derivative 12; 33=1- β -D-Glucopyranosyloxy-4,8-dihydroxy-2-napthoic acid; 34=1,4,8-trihydroxynaphthalene-1-D-glucopyranoside; 35= Isofraxidin; 36= Isofraxidin derivative; 37= Hydrojuglone derivative 5; 38= Hydrojuglone derivative 6; 39=1,4-napthoquinone and hydrojuglone; 40= Juglone (5-hydroxy-1,4-napthoquinone)

Figure S7. Full scan on a HPLC-MS, and the phenolic compounds identified for *J. regia* two-year old bark.

RT: 6.00 - 29.97



1= Epigallocatechin; **2**=(epi)Catechin derivative 1; **3**=1-O-(4-Hydroxy-3,5-dimetoxybenzoyl) -D-glucopyranoside; **4**= bis-HHDP-glucose 2; **5**= Gallic acid derivative 3; **6**= Procyanidin dimer 3; **7**= Strictin/isostictin isomer (galloyl-HHDP-glucose); **8**=(+)-Catechin; **9**= Dihydroxytetralone hexoside; **10**= Hydrojuglone derivative 1; **11**=(epi)Catechin dihexoside; **12**= Ellagic acid derivative 3; **13**= Ellagic acid derivative 5; **14**= p-Coumaroylquinic acid; **15**= Hydrojuglone- β -D-glucopyranoside; **16**= Hydrojuglone derivative 3; **17**= Gallic acid derivative 5; **18**= Hydrojuglone derivative 4; **19**= Tetralone hexoside; **20**= Gallic acid derivative 7; **21**= Myricetin-3-rhamnoside; **22**= Quercetin-3-galactoside; **23**= Ellagic acid; **24**=(epi)Catechin galloyl; **25**= Hydrojuglone derivative rhamnoside; **26**= Hydrojuglone derivative pentoside 2; **27**= Quercetin-3-arabinopyranoside; **28**= Gallic acid derivative 10; **29**=3-O-Methylellagic acid-4-O- β -D-arabinopyranoside; **30**= Gallic acid derivative 11; **31**= Quercetin-3-rhamnoside; **32**= Kaempferol-7-hexoside 1; **33**= Kaempferol-7-hexoside 2; **34**= Hydrojuglone derivative 5; **35**= Hydrojuglone derivative 6; **36**=1,4-naphthoquinone and hydrojuglone; **37**= Juglone (5-hydroxy-1,4-naphthoquinone)