Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR013123\
Data File : PR059289.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2023 10:07
Operator : YP\AJ
Sample : AR1242CCC400
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 31 20:45:26 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR012723CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Jan 27 08:44:40 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.694	2.910	56554168	83020582	20.848	20.879	
2)	SA Decachlor...	9.669	8.146	80715635	126.7E6	38.592	39.701	
	Target Compounds							
3)	L1 AR-1016-1	4.929	4.021	29451958	45047089	340.019	324.445	
4)	L1 AR-1016-2	4.952	4.038	39951814	63104995	336.121	327.533	
5)	L1 AR-1016-3	5.016	4.216	26169535	33259617	342.154	327.613	
6)	L1 AR-1016-4	5.120	4.267	20768758	25421359	333.809	330.996	
7)	L1 AR-1016-5	5.439	4.483	20677095	34777618	336.385	338.428	
8)	L2 AR-1221-1	3.913	3.133	3934001	4671238	116.142	105.341	
9)	L2 AR-1221-2	4.008	3.219	4884301	6252741	203.532	197.975	
10)	L2 AR-1221-3	4.086	3.295	18064207	24596256	241.768	227.121	
11)	L3 AR-1232-1	4.086	3.295	18064207	24596256	280.319	272.084	
12)	L3 AR-1232-2	4.642	4.038	21284117	63104995	713.943	732.005	
13)	L3 AR-1232-3	4.952	4.216	39951814	33259617	710.188	753.814	
14)	L3 AR-1232-4	5.120	4.308	20768758	31672620	718.228	828.555	
15)	L3 AR-1232-5	5.225	4.483	16406365	34777618	774.989	781.446	
16)	L4 AR-1242-1	4.929	4.021	29451958	45047089	399.406	392.083	
17)	L4 AR-1242-2	4.952	4.038	39951814	63104995	395.193	395.236	
18)	L4 AR-1242-3	5.016	4.216	26169535	33259617	400.993	394.937	
19)	L4 AR-1242-4	5.120	4.308	20768758	31672620	389.286	397.517	
20)	L4 AR-1242-5	5.915	4.852	20131271	39866299	374.485	385.669	
21)	L5 AR-1248-1	4.929	4.021	29451958	45047089	523.490	518.787	
22)	L5 AR-1248-2	5.225	4.267	16406365	25421359	225.046	216.820	
23)	L5 AR-1248-3	5.439	4.308	20677095	31672620	240.783	263.746	
24)	L5 AR-1248-4	5.875	4.483	19583077	34777618	205.784	236.150	
25)	L5 AR-1248-5	5.915	4.893	20131271	33209845	218.313	224.870	
26)	L6 AR-1254-1	5.844	4.852	15436070	39866299	163.415	176.968	
27)	L6 AR-1254-2	6.084	5.010	17632084	8725572	120.773	45.366	#
28)	L6 AR-1254-3	6.480	5.429	7430892	12958835	48.154	41.252	
29)	L6 AR-1254-4	6.793	5.675	5468504	9970783	47.281	51.472	
30)	L6 AR-1254-5	7.250	6.119	1482257	3302911	11.968	12.254	
31)	L7 AR-1260-1	6.662	5.578	960195	5818403	8.200	27.230	#
32)	L7 AR-1260-2	6.943	5.774	843160	1308204	6.076	5.087	
33)	L7 AR-1260-3	7.314	5.928	139817	2302098	1.354	9.770	#
34)	L7 AR-1260-4	7.563	6.433	724336	121775	6.184	0.630	#
35)	L7 AR-1260-5	7.924	6.702	315634	317619	1.389	0.708	#
36)	L8 AR-1262-1	7.314	6.190	139817	435914	0.927	1.509	#
37)	L8 AR-1262-2	7.924	6.433	315634	121775	1.207	0.477	#
38)	L8 AR-1262-3	8.242	7.006	317274	112999	1.735	0.590	#
39)	L8 AR-1262-4	0.000	7.069	0	367567	N.D.	1.010	#
40)	L8 AR-1262-5	8.973	7.617	206434	191641	2.068	1.189	#
41)	L9 AR-1268-1	8.242	7.006	317274	112999	0.743	0.140	#

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR013123\
Data File : PR059289.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2023 10:07
Operator : YP\AJ
Sample : AR1242CCC400
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 31 20:45:26 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR012723CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Jan 27 08:44:40 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
42) L9	AR-1268-2	0.000	7.069	0	367567	N.D.	0.502	#
43) L9	AR-1268-3	8.546	7.295	201910	477240	0.600	0.761	#
44) L9	AR-1268-4	8.973	7.617	206434	191641	1.392	0.770	#
45) L9	AR-1268-5	9.350	7.904	1404482	828204	1.297	0.425	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

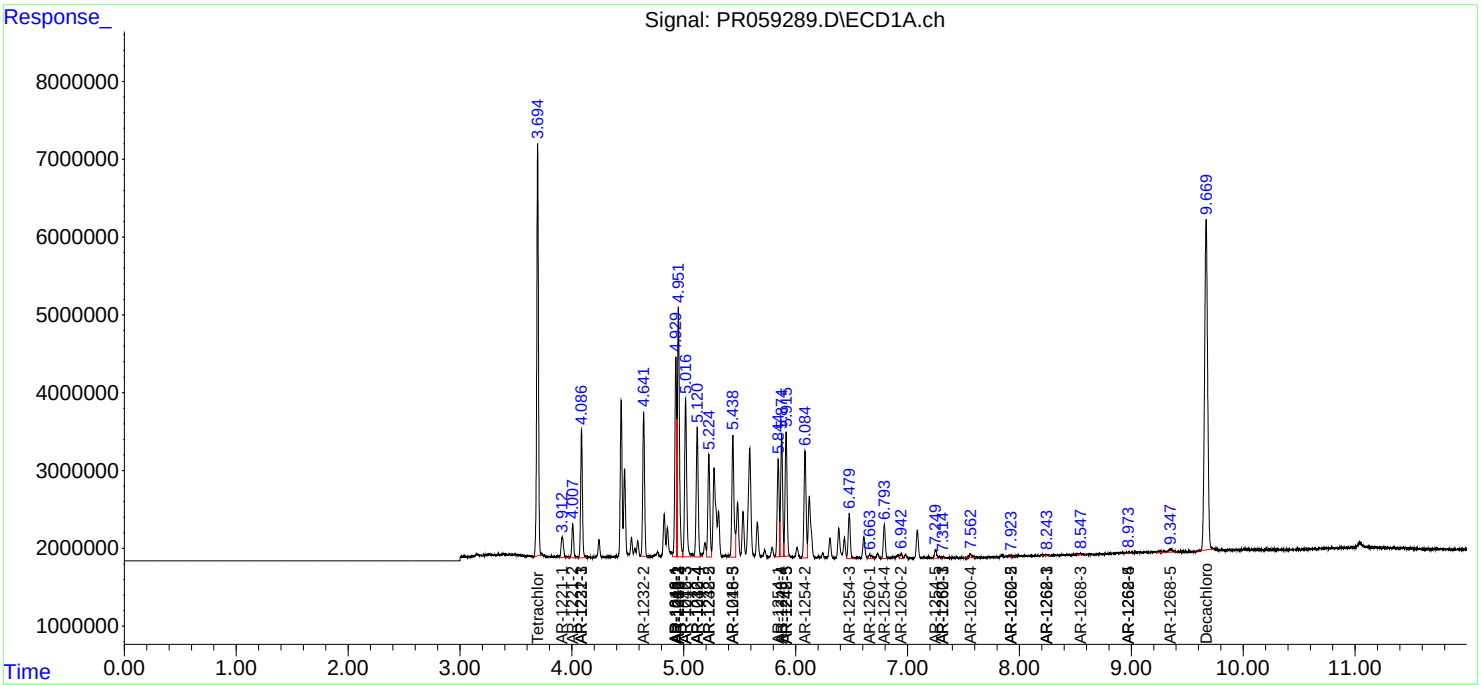
Quantitation Report (Not Reviewed)

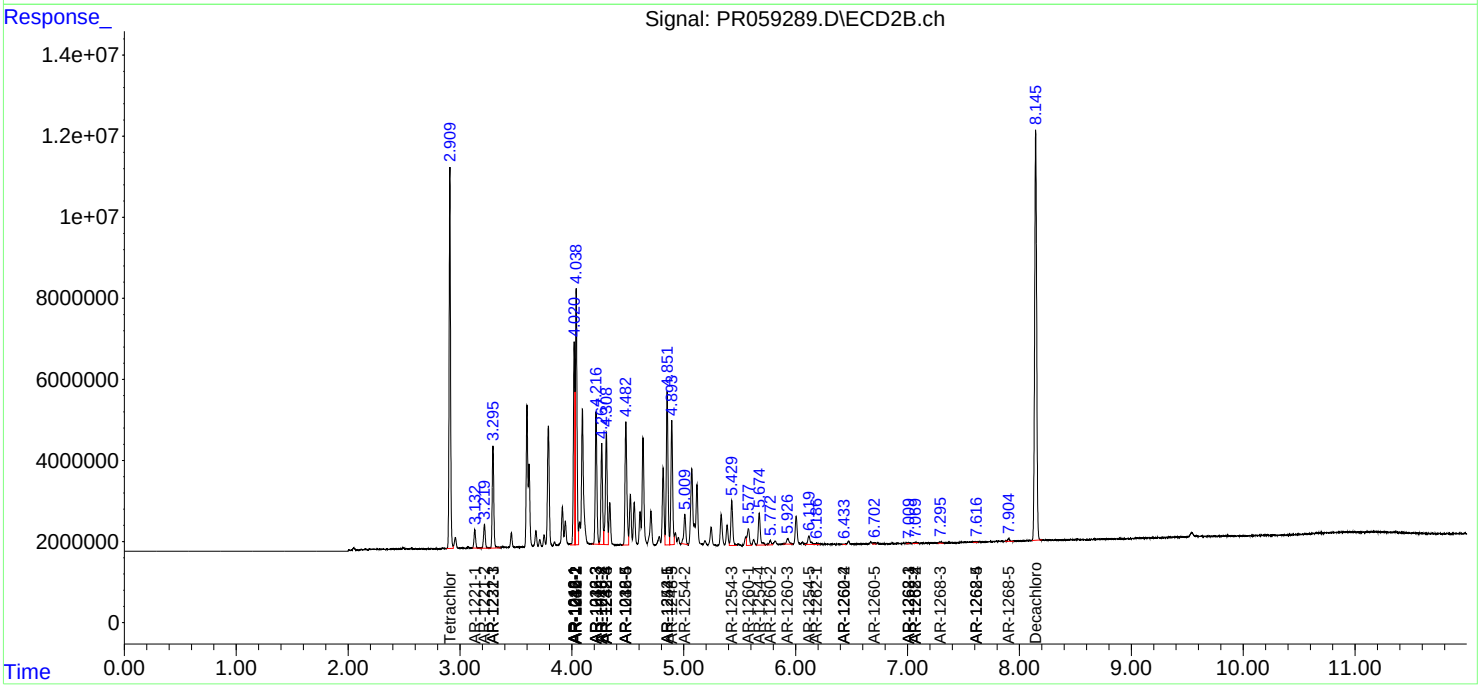
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR013123\
Data File : PR059289.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2023 10:07
Operator : YP\AJ
Sample : AR1242CCC400
Misc :
ALS Vial : 4 Sample Multiplier: 1

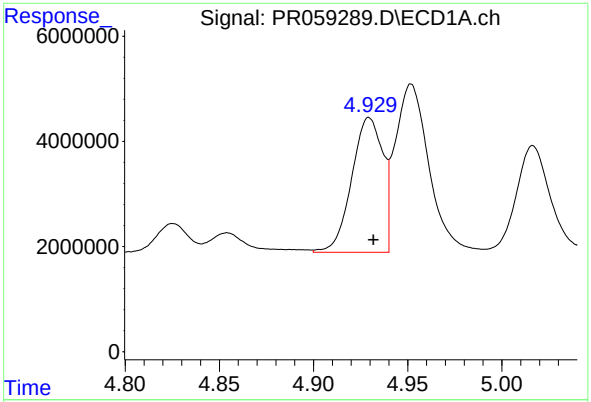
Instrument :
ECD_R
ClientSampleId :

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 31 20:45:26 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR012723CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Jan 27 08:44:40 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



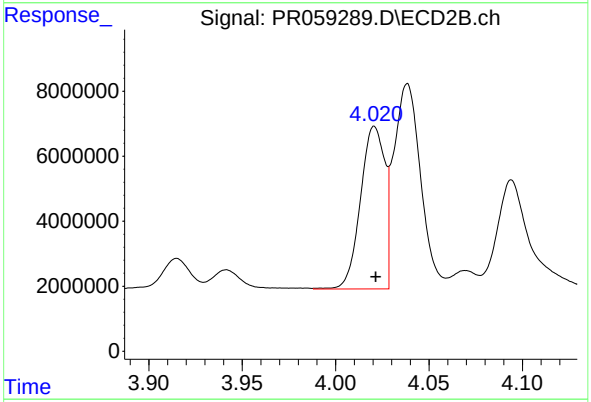




#3 AR-1016-1

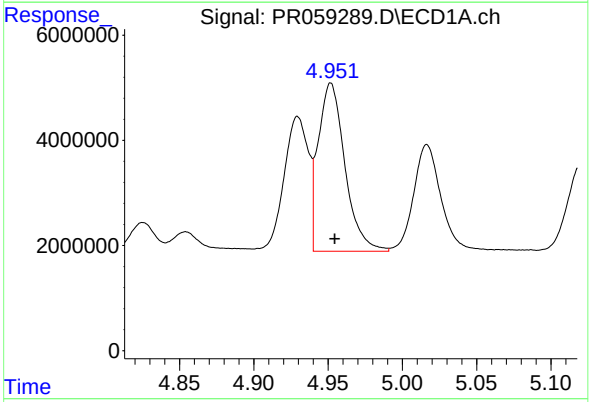
R.T.: 4.929 min
Delta R.T.: -0.002 min
Response: 29451958
Conc: 340.02 ng/ml

Instrument :
ECD_R
ClientSampleId :



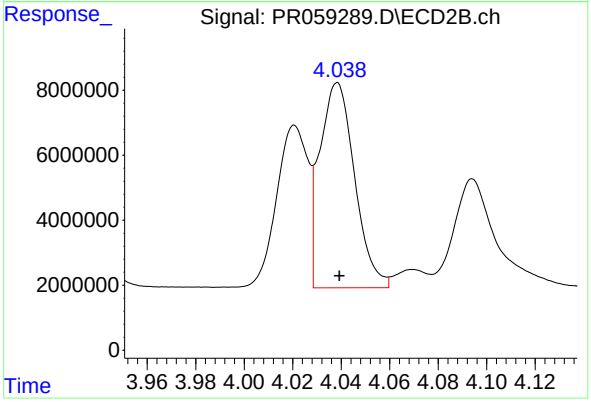
#3 AR-1016-1

R.T.: 4.021 min
Delta R.T.: 0.000 min
Response: 45047089
Conc: 324.45 ng/ml



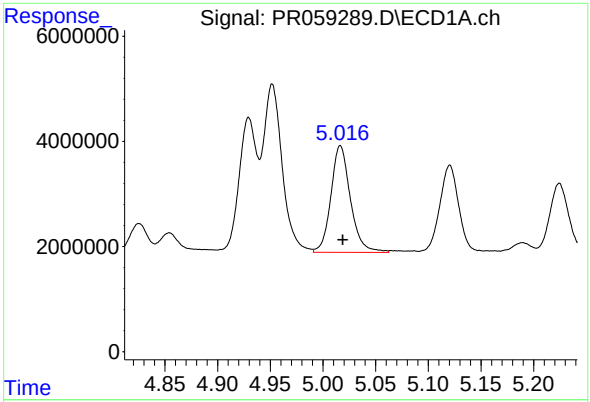
#4 AR-1016-2

R.T.: 4.952 min
Delta R.T.: -0.003 min
Response: 39951814
Conc: 336.12 ng/ml



#4 AR-1016-2

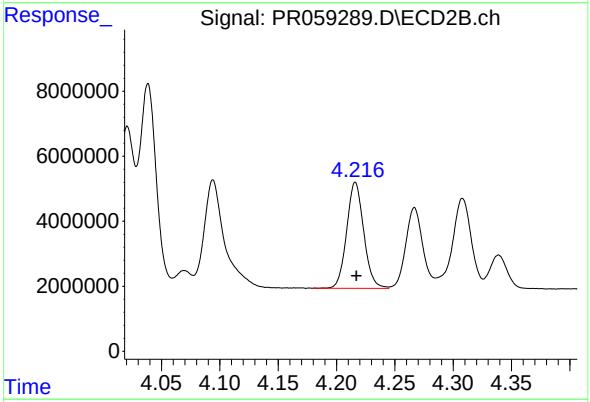
R.T.: 4.038 min
Delta R.T.: 0.000 min
Response: 63104995
Conc: 327.53 ng/ml



#5 AR-1016-3

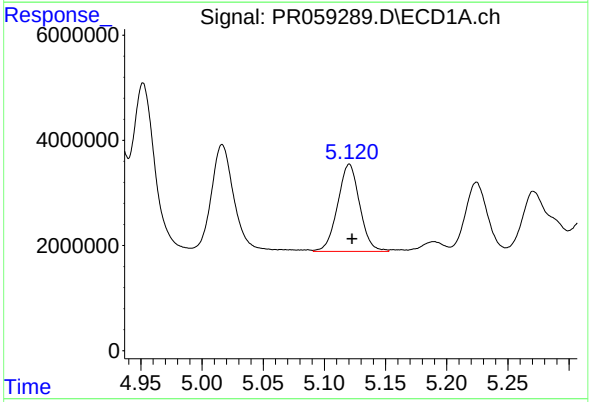
R.T.: 5.016 min
Delta R.T.: -0.002 min
Response: 26169535
Conc: 342.15 ng/ml

Instrument :
ECD_R
ClientSampleId :



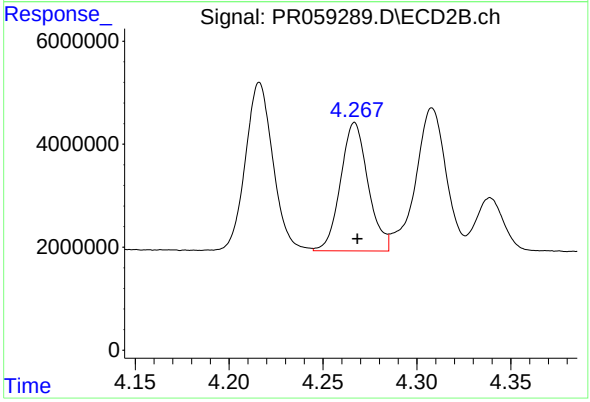
#5 AR-1016-3

R.T.: 4.216 min
Delta R.T.: 0.000 min
Response: 33259617
Conc: 327.61 ng/ml



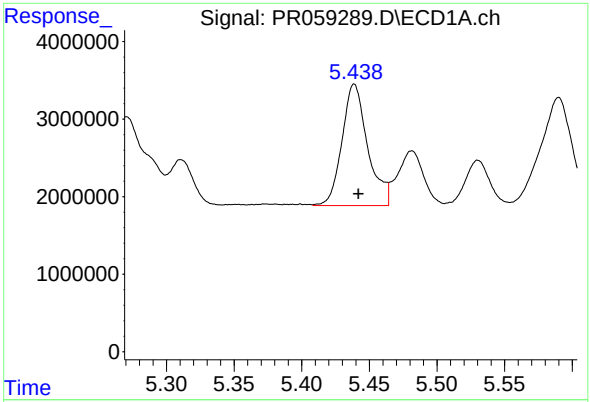
#6 AR-1016-4

R.T.: 5.120 min
Delta R.T.: -0.002 min
Response: 20768758
Conc: 333.81 ng/ml



#6 AR-1016-4

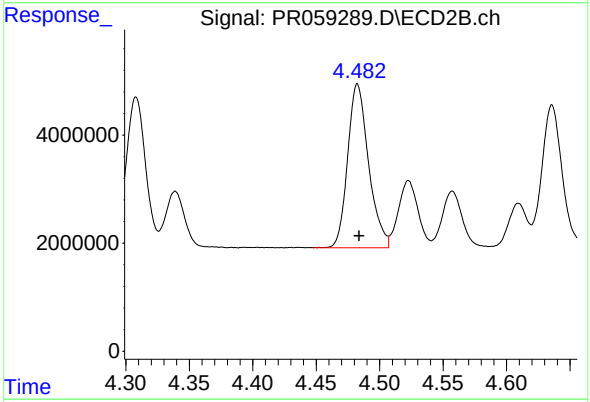
R.T.: 4.267 min
Delta R.T.: -0.001 min
Response: 25421359
Conc: 331.00 ng/ml



#7 AR-1016-5

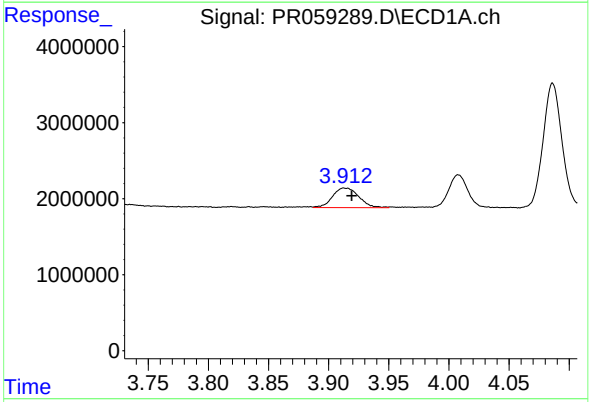
R.T.: 5.439 min
Delta R.T.: -0.003 min
Response: 20677095
Conc: 336.39 ng/ml

Instrument :
ECD_R
ClientSampleId :



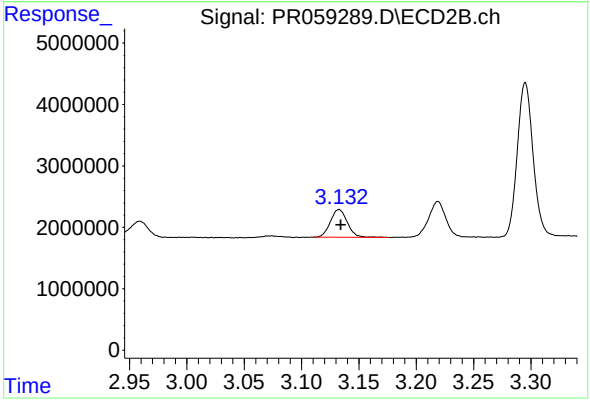
#7 AR-1016-5

R.T.: 4.483 min
Delta R.T.: -0.001 min
Response: 34777618
Conc: 338.43 ng/ml



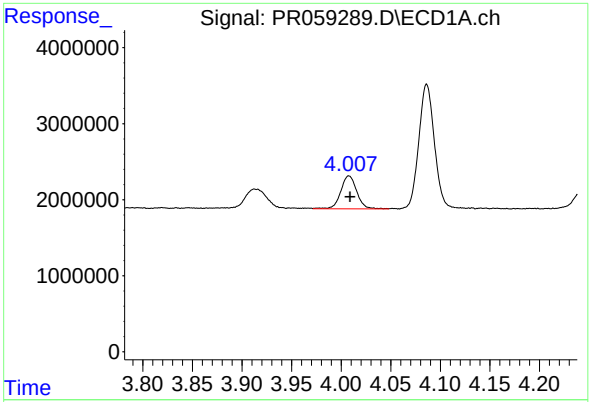
#8 AR-1221-1

R.T.: 3.913 min
Delta R.T.: -0.007 min
Response: 3934001
Conc: 116.14 ng/ml



#8 AR-1221-1

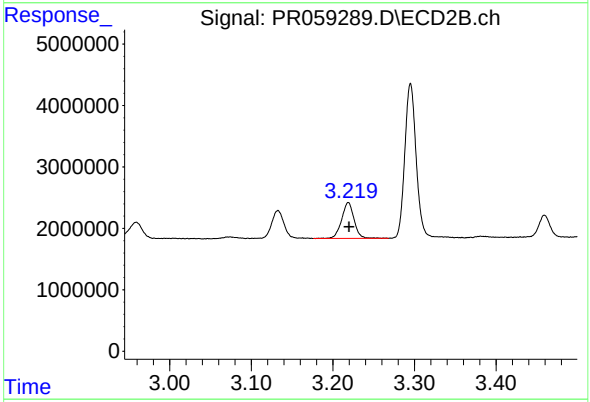
R.T.: 3.133 min
Delta R.T.: -0.001 min
Response: 4671238
Conc: 105.34 ng/ml



#9 AR-1221-2

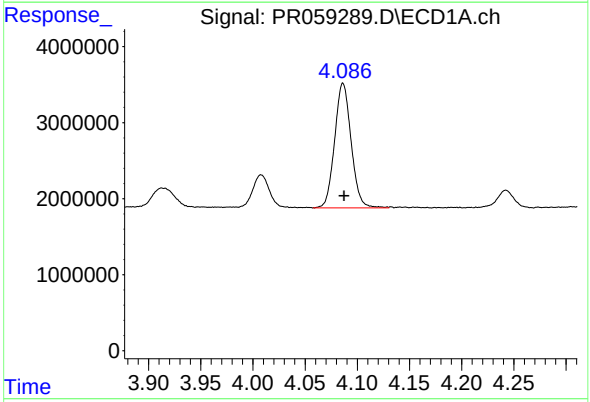
R.T.: 4.008 min
Delta R.T.: -0.001 min
Response: 4884301
Conc: 203.53 ng/ml

Instrument :
ECD_R
ClientSampleId :



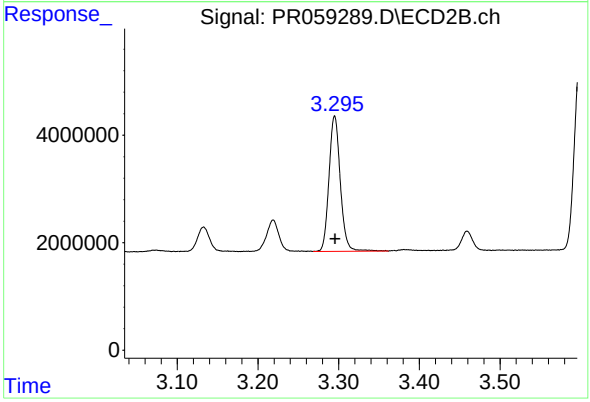
#9 AR-1221-2

R.T.: 3.219 min
Delta R.T.: 0.000 min
Response: 6252741
Conc: 197.98 ng/ml



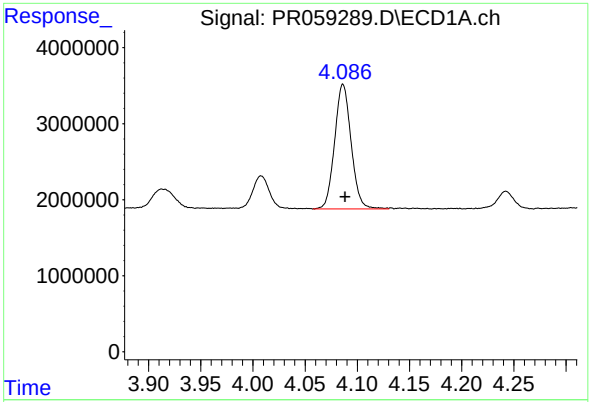
#10 AR-1221-3

R.T.: 4.086 min
Delta R.T.: 0.000 min
Response: 18064207
Conc: 241.77 ng/ml



#10 AR-1221-3

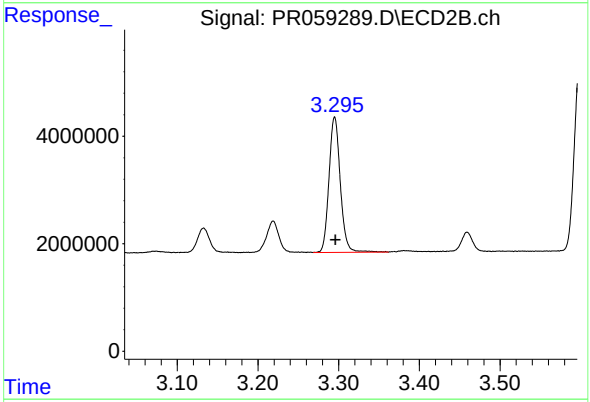
R.T.: 3.295 min
Delta R.T.: 0.000 min
Response: 24596256
Conc: 227.12 ng/ml



#11 AR-1232-1

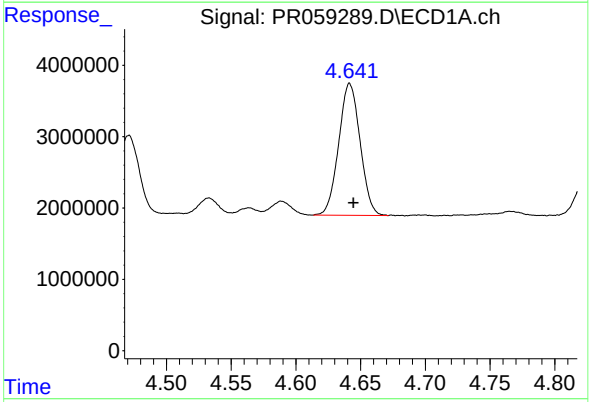
R.T.: 4.086 min
Delta R.T.: -0.002 min
Response: 18064207
Conc: 280.32 ng/ml

Instrument :
ECD_R
ClientSampleId :



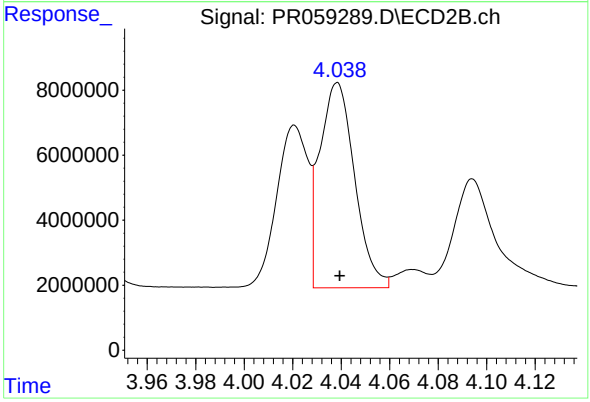
#11 AR-1232-1

R.T.: 3.295 min
Delta R.T.: 0.000 min
Response: 24596256
Conc: 272.08 ng/ml



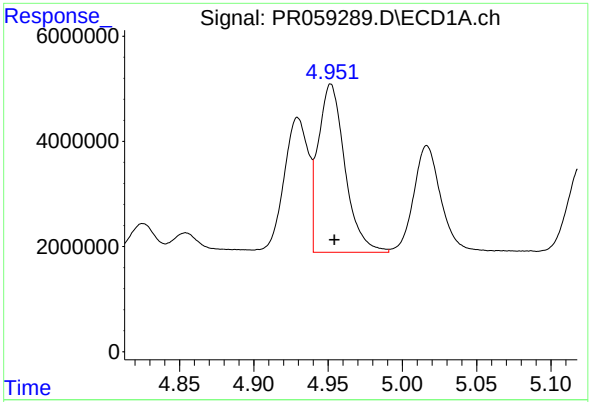
#12 AR-1232-2

R.T.: 4.642 min
Delta R.T.: -0.003 min
Response: 21284117
Conc: 713.94 ng/ml



#12 AR-1232-2

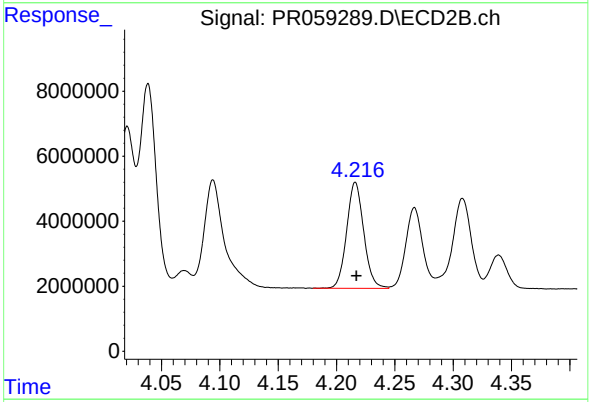
R.T.: 4.038 min
Delta R.T.: 0.000 min
Response: 63104995
Conc: 732.00 ng/ml



#13 AR-1232-3

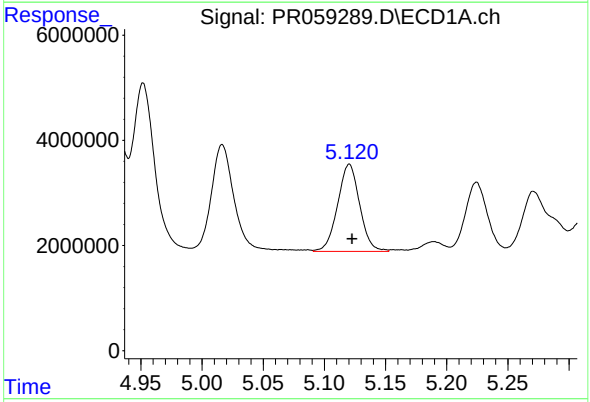
R.T.: 4.952 min
Delta R.T.: -0.002 min
Response: 39951814
Conc: 710.19 ng/ml

Instrument :
ECD_R
ClientSampleId :



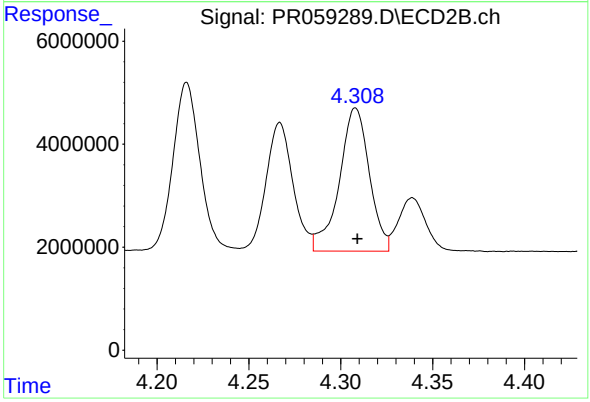
#13 AR-1232-3

R.T.: 4.216 min
Delta R.T.: 0.000 min
Response: 33259617
Conc: 753.81 ng/ml



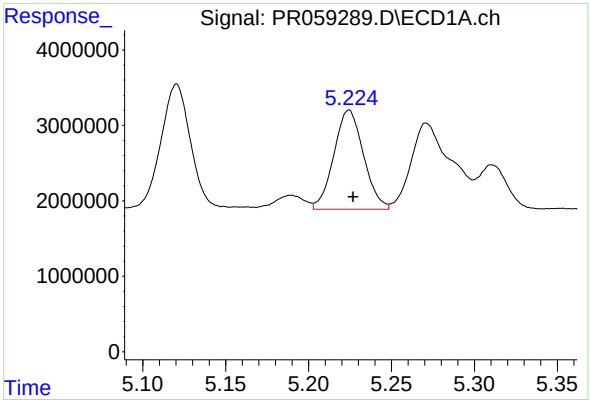
#14 AR-1232-4

R.T.: 5.120 min
Delta R.T.: -0.002 min
Response: 20768758
Conc: 718.23 ng/ml



#14 AR-1232-4

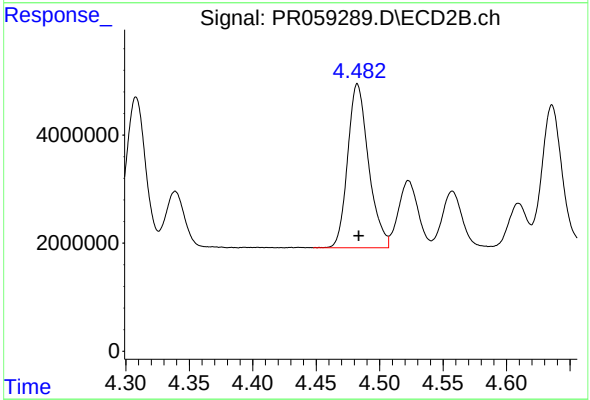
R.T.: 4.308 min
Delta R.T.: 0.000 min
Response: 31672620
Conc: 828.55 ng/ml



#15 AR-1232-5

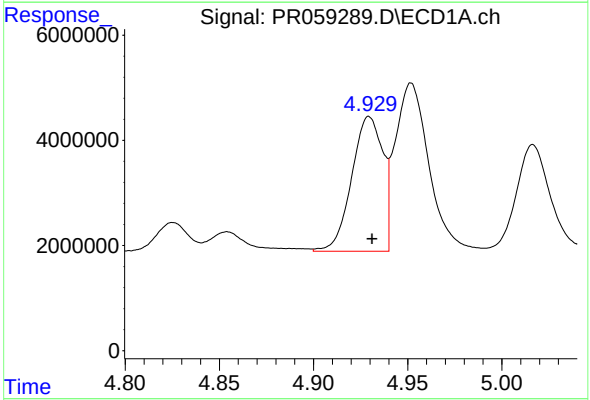
R.T.: 5.225 min
Delta R.T.: -0.002 min
Response: 16406365
Conc: 774.99 ng/ml

Instrument :
ECD_R
ClientSampleId :



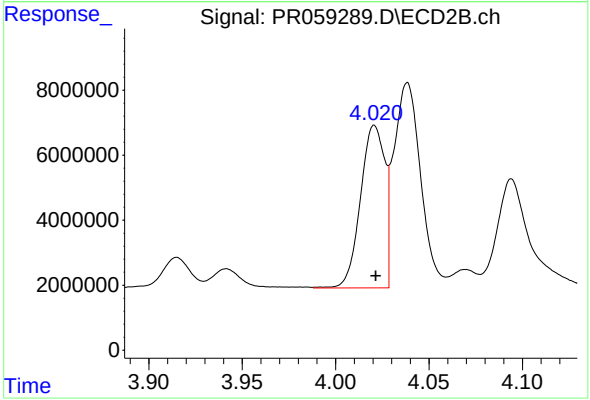
#15 AR-1232-5

R.T.: 4.483 min
Delta R.T.: 0.000 min
Response: 34777618
Conc: 781.45 ng/ml



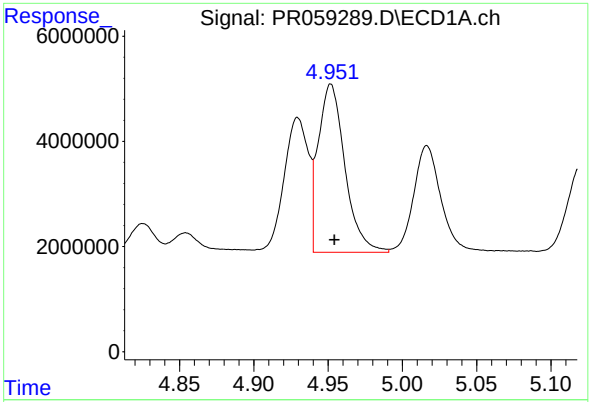
#16 AR-1242-1

R.T.: 4.929 min
Delta R.T.: -0.002 min
Response: 29451958
Conc: 399.41 ng/ml



#16 AR-1242-1

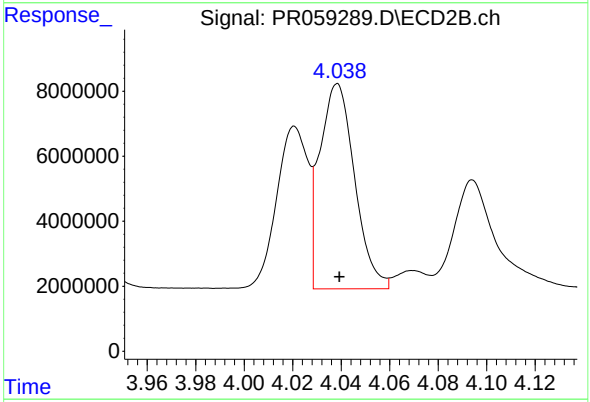
R.T.: 4.021 min
Delta R.T.: 0.000 min
Response: 45047089
Conc: 392.08 ng/ml



#17 AR-1242-2

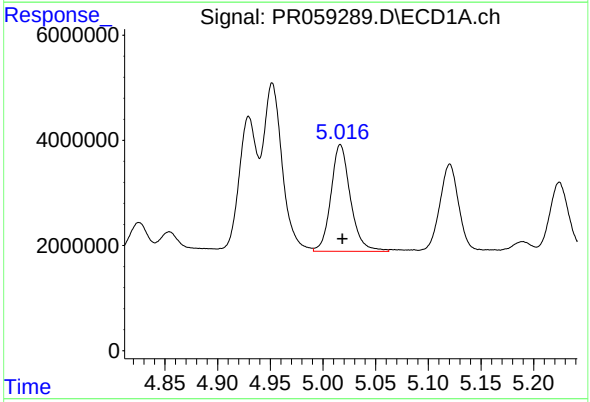
R.T.: 4.952 min
Delta R.T.: -0.002 min
Response: 39951814
Conc: 395.19 ng/ml

Instrument :
ECD_R
ClientSampleId :



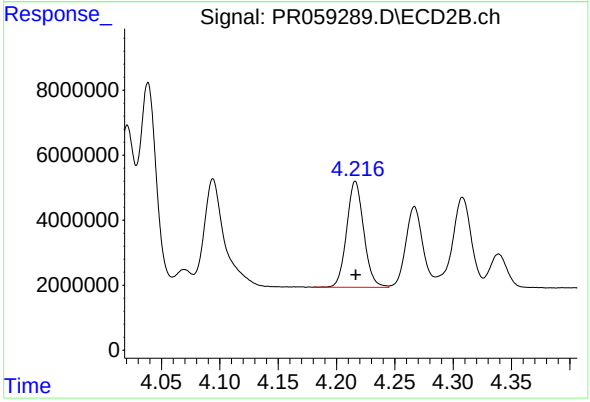
#17 AR-1242-2

R.T.: 4.038 min
Delta R.T.: 0.000 min
Response: 63104995
Conc: 395.24 ng/ml



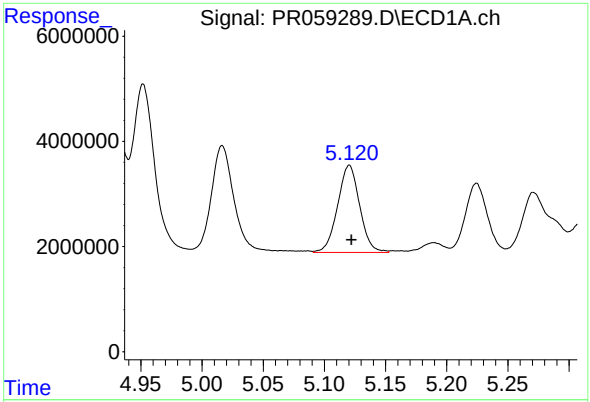
#18 AR-1242-3

R.T.: 5.016 min
Delta R.T.: -0.002 min
Response: 26169535
Conc: 400.99 ng/ml



#18 AR-1242-3

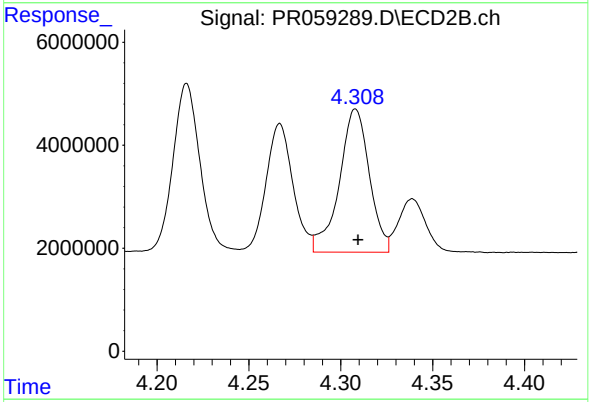
R.T.: 4.216 min
Delta R.T.: 0.000 min
Response: 33259617
Conc: 394.94 ng/ml



#19 AR-1242-4

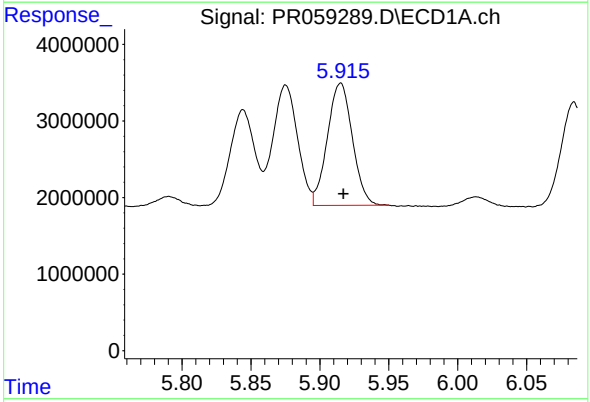
R.T.: 5.120 min
Delta R.T.: -0.002 min
Response: 20768758
Conc: 389.29 ng/ml

Instrument :
ECD_R
ClientSampleId :



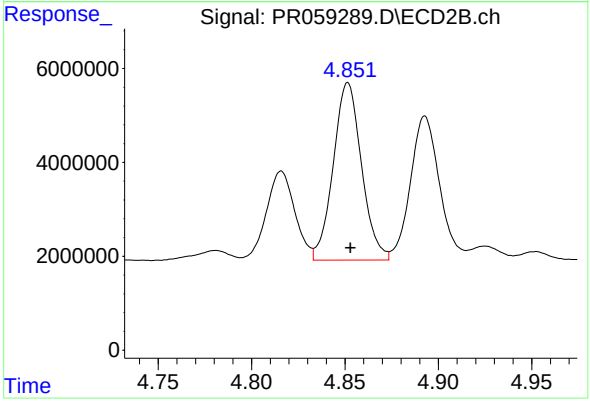
#19 AR-1242-4

R.T.: 4.308 min
Delta R.T.: -0.001 min
Response: 31672620
Conc: 397.52 ng/ml



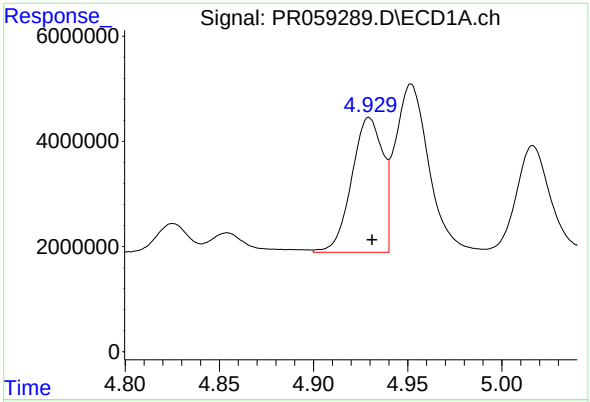
#20 AR-1242-5

R.T.: 5.915 min
Delta R.T.: -0.002 min
Response: 20131271
Conc: 374.48 ng/ml



#20 AR-1242-5

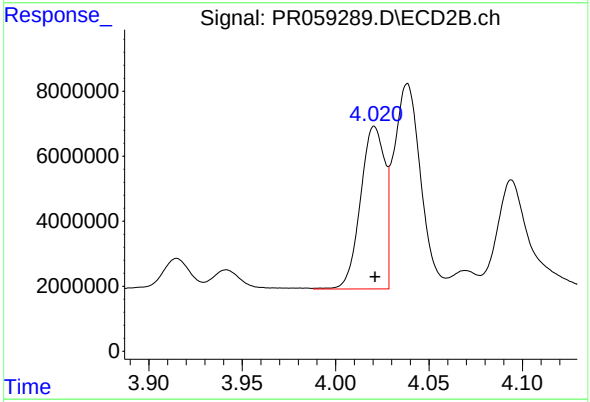
R.T.: 4.852 min
Delta R.T.: -0.001 min
Response: 39866299
Conc: 385.67 ng/ml



#21 AR-1248-1

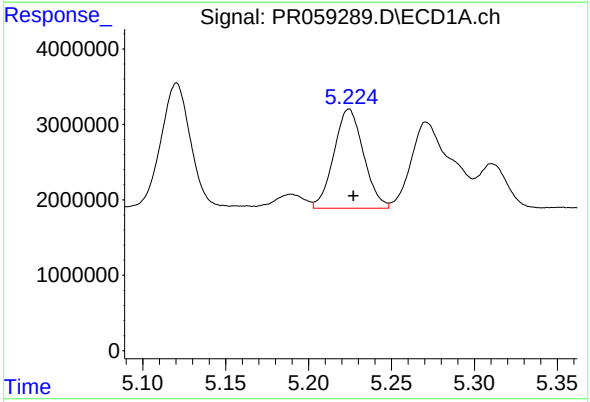
R.T.: 4.929 min
Delta R.T.: -0.002 min
Response: 29451958
Conc: 523.49 ng/ml

Instrument :
ECD_R
ClientSampleId :



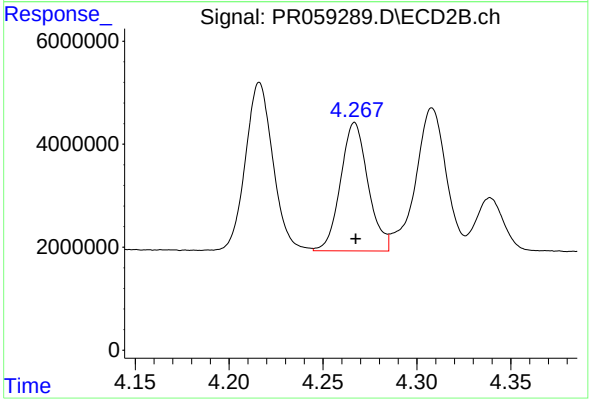
#21 AR-1248-1

R.T.: 4.021 min
Delta R.T.: 0.000 min
Response: 45047089
Conc: 518.79 ng/ml



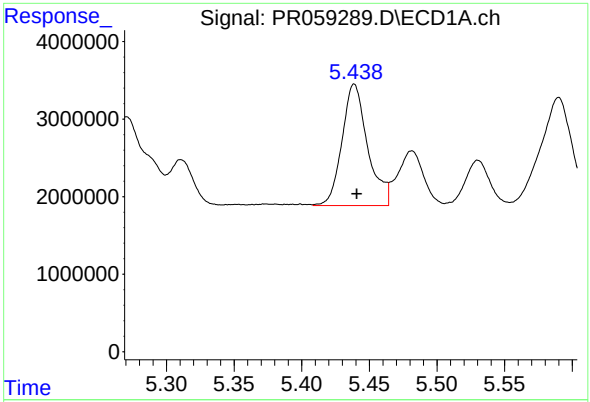
#22 AR-1248-2

R.T.: 5.225 min
Delta R.T.: -0.002 min
Response: 16406365
Conc: 225.05 ng/ml



#22 AR-1248-2

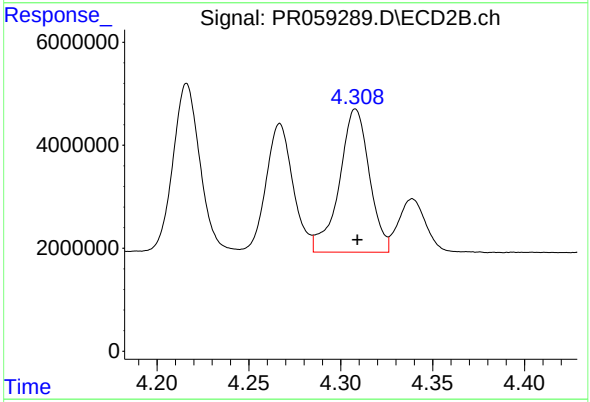
R.T.: 4.267 min
Delta R.T.: 0.000 min
Response: 25421359
Conc: 216.82 ng/ml



#23 AR-1248-3

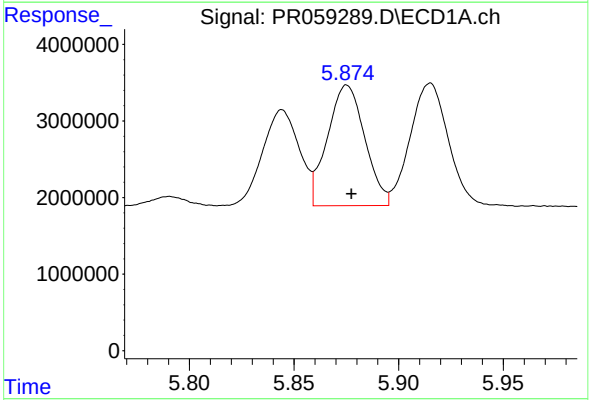
R.T.: 5.439 min
Delta R.T.: -0.002 min
Response: 20677095
Conc: 240.78 ng/ml

Instrument :
ECD_R
ClientSampleId :



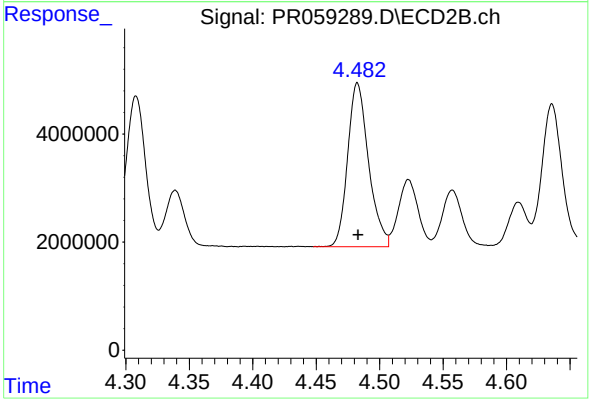
#23 AR-1248-3

R.T.: 4.308 min
Delta R.T.: 0.000 min
Response: 31672620
Conc: 263.75 ng/ml



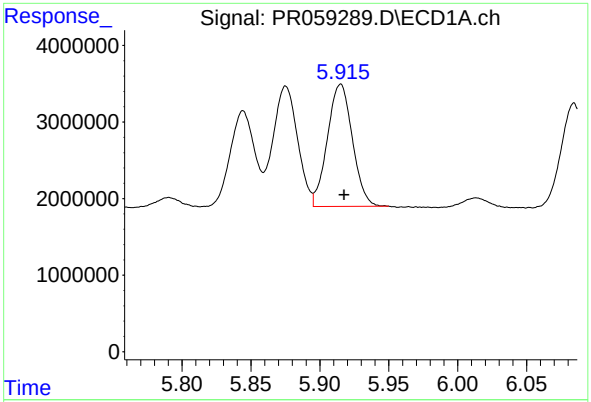
#24 AR-1248-4

R.T.: 5.875 min
Delta R.T.: -0.002 min
Response: 19583077
Conc: 205.78 ng/ml



#24 AR-1248-4

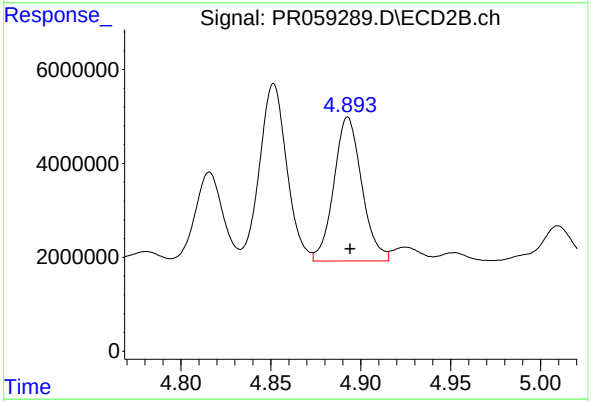
R.T.: 4.483 min
Delta R.T.: 0.000 min
Response: 34777618
Conc: 236.15 ng/ml



#25 AR-1248-5

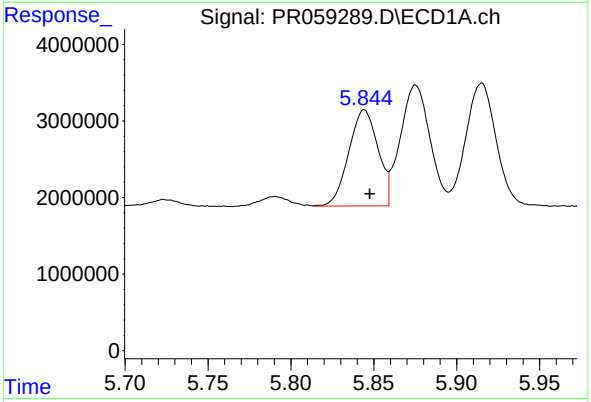
R.T.: 5.915 min
Delta R.T.: -0.003 min
Response: 20131271
Conc: 218.31 ng/ml

Instrument :
ECD_R
ClientSampleId :



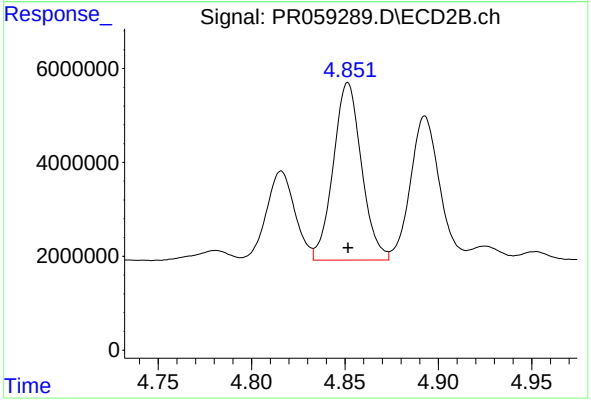
#25 AR-1248-5

R.T.: 4.893 min
Delta R.T.: -0.001 min
Response: 33209845
Conc: 224.87 ng/ml



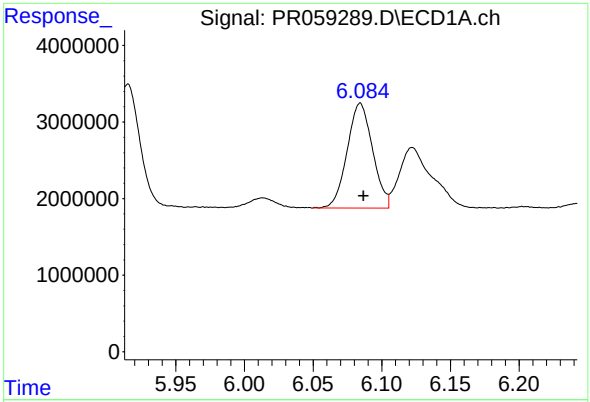
#26 AR-1254-1

R.T.: 5.844 min
Delta R.T.: -0.003 min
Response: 15436070
Conc: 163.41 ng/ml



#26 AR-1254-1

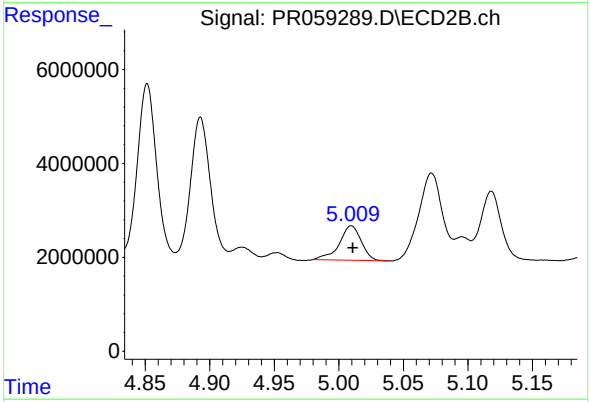
R.T.: 4.852 min
Delta R.T.: 0.000 min
Response: 39866299
Conc: 176.97 ng/ml



#27 AR-1254-2

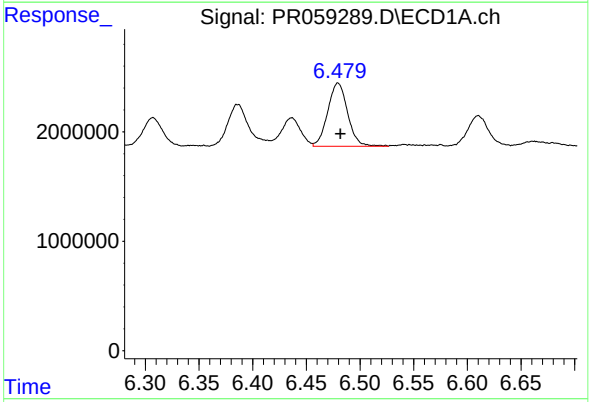
R.T.: 6.084 min
Delta R.T.: -0.002 min
Response: 17632084
Conc: 120.77 ng/ml

Instrument :
ECD_R
ClientSampleId :



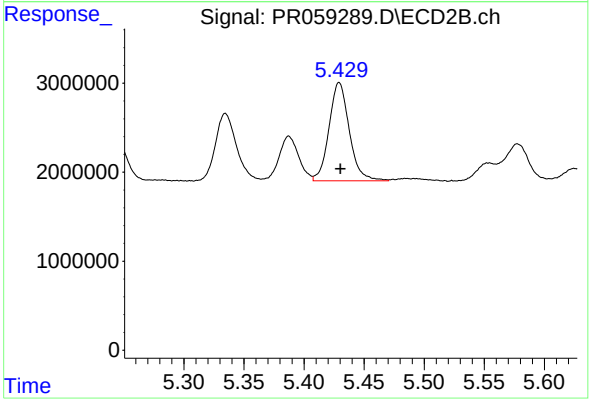
#27 AR-1254-2

R.T.: 5.010 min
Delta R.T.: -0.001 min
Response: 8725572
Conc: 45.37 ng/ml



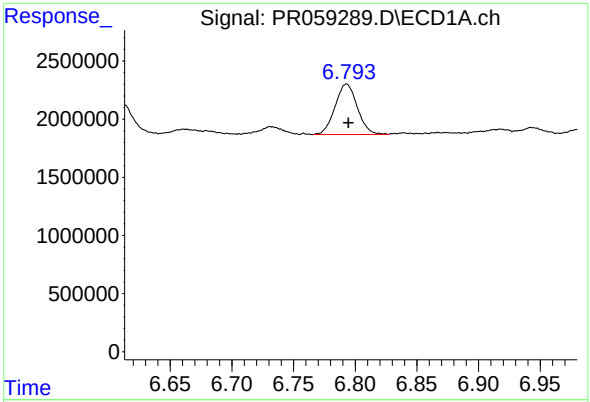
#28 AR-1254-3

R.T.: 6.480 min
Delta R.T.: -0.002 min
Response: 7430892
Conc: 48.15 ng/ml



#28 AR-1254-3

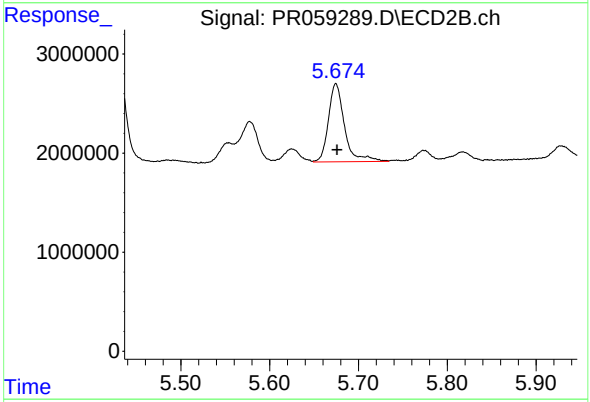
R.T.: 5.429 min
Delta R.T.: -0.001 min
Response: 12958835
Conc: 41.25 ng/ml



#29 AR-1254-4

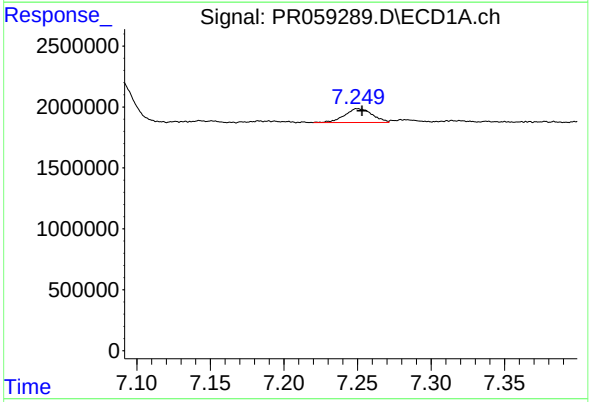
R.T.: 6.793 min
Delta R.T.: -0.002 min
Response: 5468504
Conc: 47.28 ng/ml

Instrument :
ECD_R
ClientSampleId :



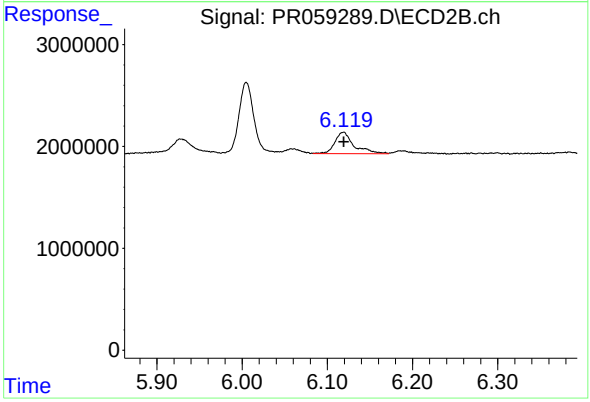
#29 AR-1254-4

R.T.: 5.675 min
Delta R.T.: -0.001 min
Response: 9970783
Conc: 51.47 ng/ml



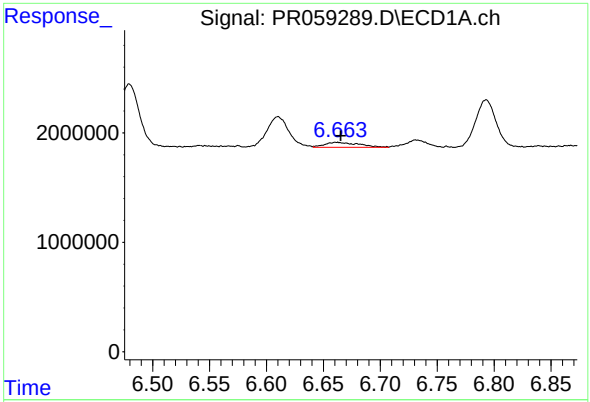
#30 AR-1254-5

R.T.: 7.250 min
Delta R.T.: -0.003 min
Response: 1482257
Conc: 11.97 ng/ml



#30 AR-1254-5

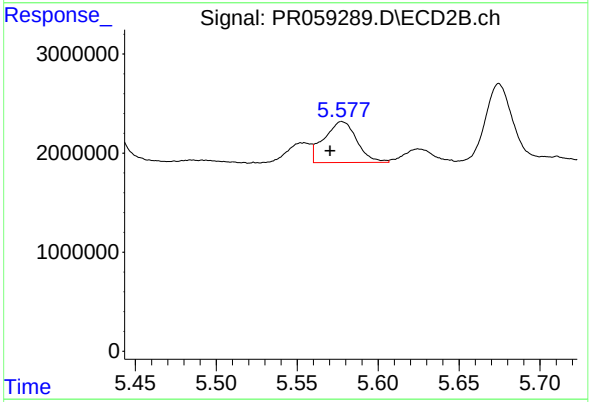
R.T.: 6.119 min
Delta R.T.: 0.000 min
Response: 3302911
Conc: 12.25 ng/ml



#31 AR-1260-1

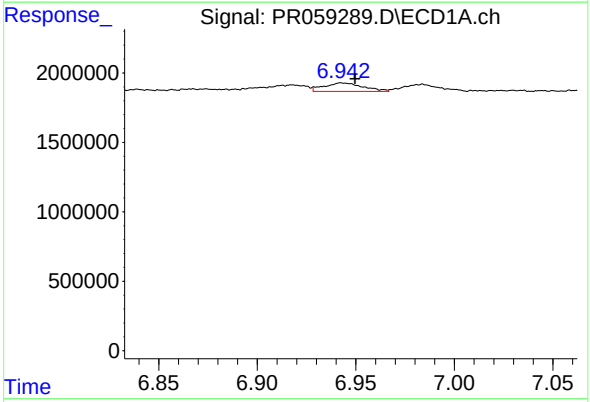
R.T.: 6.662 min
Delta R.T.: -0.003 min
Response: 960195
Conc: 8.20 ng/ml

Instrument :
ECD_R
ClientSampleId :



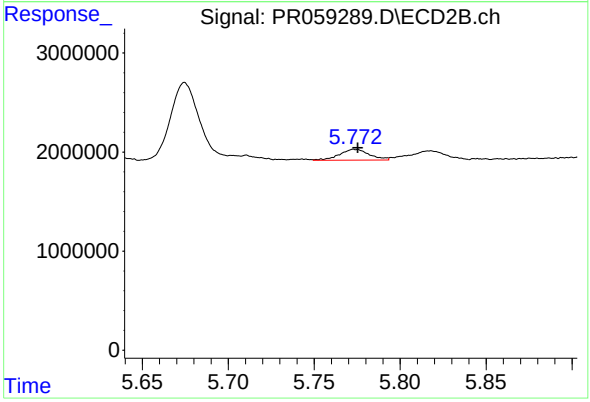
#31 AR-1260-1

R.T.: 5.578 min
Delta R.T.: 0.007 min
Response: 5818403
Conc: 27.23 ng/ml



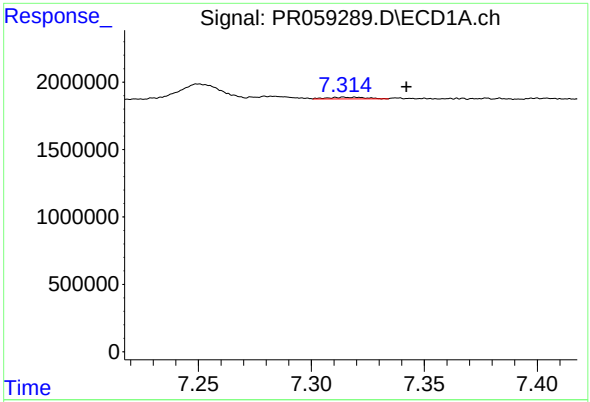
#32 AR-1260-2

R.T.: 6.943 min
Delta R.T.: -0.007 min
Response: 843160
Conc: 6.08 ng/ml



#32 AR-1260-2

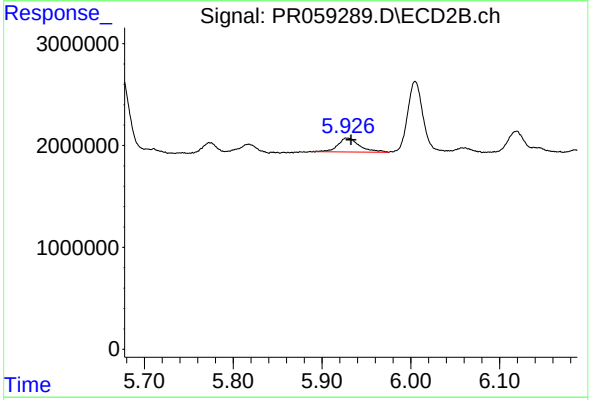
R.T.: 5.774 min
Delta R.T.: -0.002 min
Response: 1308204
Conc: 5.09 ng/ml



#33 AR-1260-3

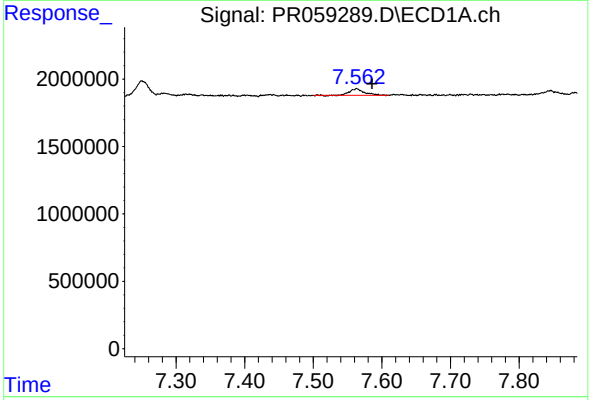
R.T.: 7.314 min
Delta R.T.: -0.028 min
Response: 139817
Conc: 1.35 ng/ml

Instrument :
ECD_R
ClientSampleId :



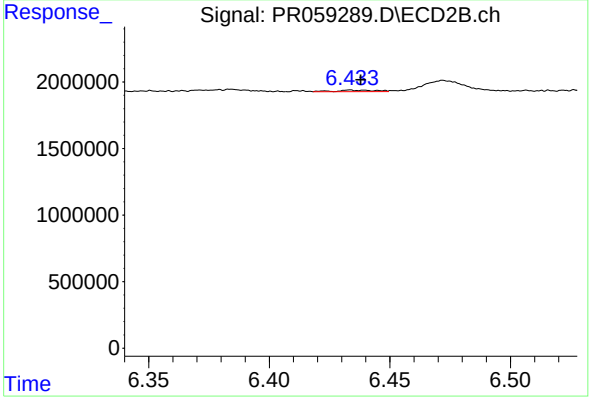
#33 AR-1260-3

R.T.: 5.928 min
Delta R.T.: -0.005 min
Response: 2302098
Conc: 9.77 ng/ml



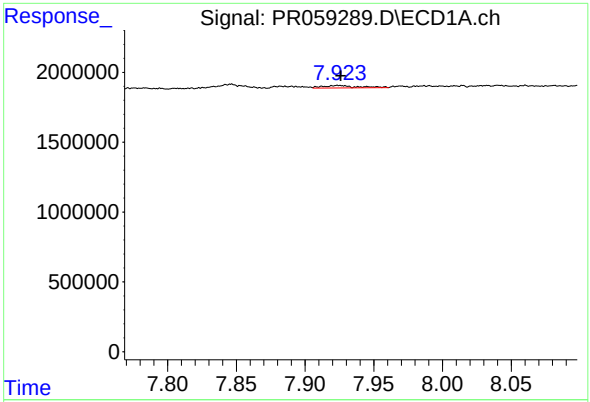
#34 AR-1260-4

R.T.: 7.563 min
Delta R.T.: -0.023 min
Response: 724336
Conc: 6.18 ng/ml



#34 AR-1260-4

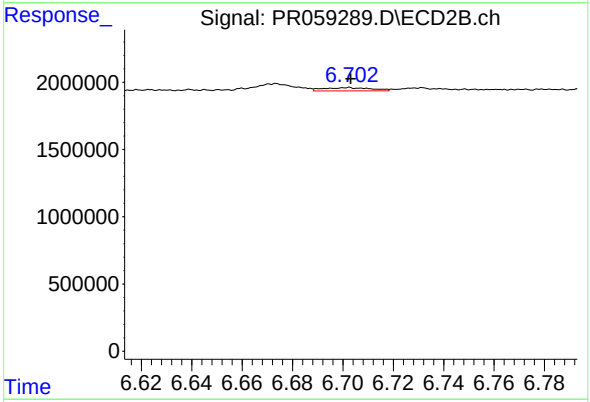
R.T.: 6.433 min
Delta R.T.: -0.004 min
Response: 121775
Conc: 0.63 ng/ml



#35 AR-1260-5

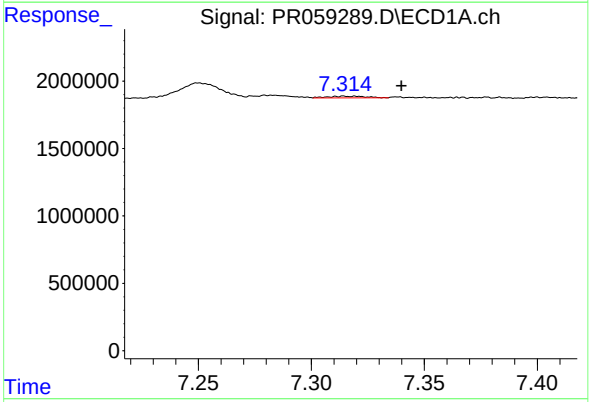
R.T.: 7.924 min
Delta R.T.: -0.002 min
Response: 315634
Conc: 1.39 ng/ml

Instrument :
ECD_R
ClientSampleId :



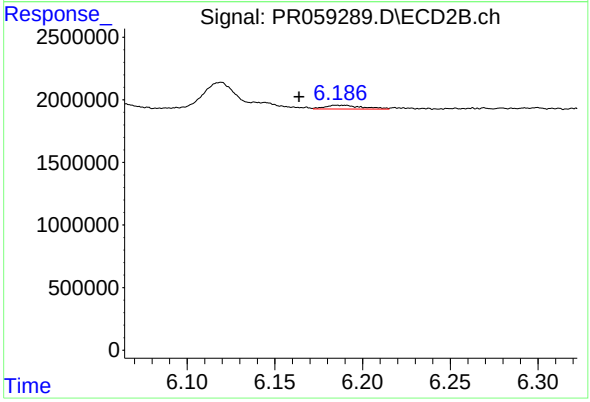
#35 AR-1260-5

R.T.: 6.702 min
Delta R.T.: 0.000 min
Response: 317619
Conc: 0.71 ng/ml



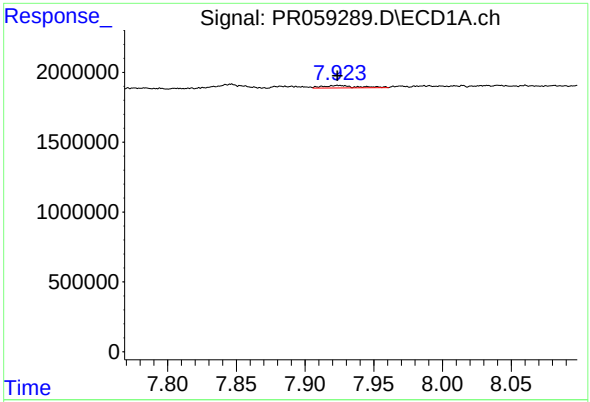
#36 AR-1262-1

R.T.: 7.314 min
Delta R.T.: -0.025 min
Response: 139817
Conc: 0.93 ng/ml



#36 AR-1262-1

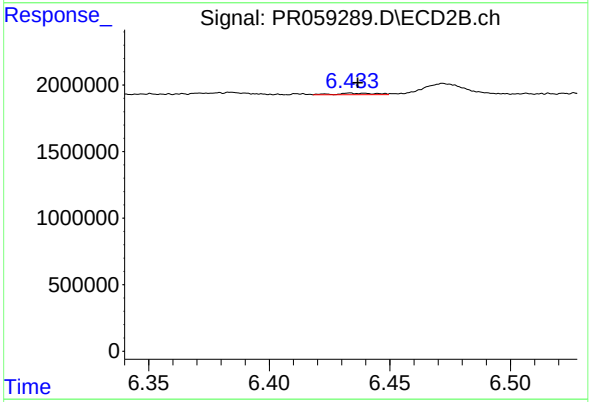
R.T.: 6.190 min
Delta R.T.: 0.026 min
Response: 435914
Conc: 1.51 ng/ml



#37 AR-1262-2

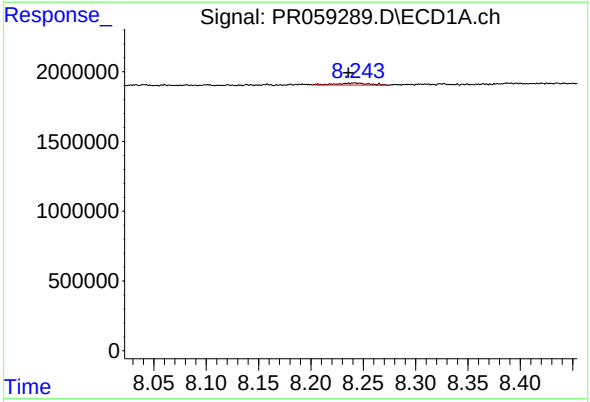
R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 315634
Conc: 1.21 ng/ml

Instrument :
ECD_R
ClientSampleId :



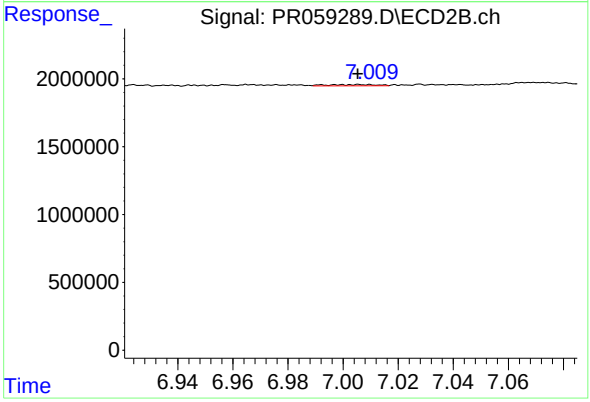
#37 AR-1262-2

R.T.: 6.433 min
Delta R.T.: -0.003 min
Response: 121775
Conc: 0.48 ng/ml



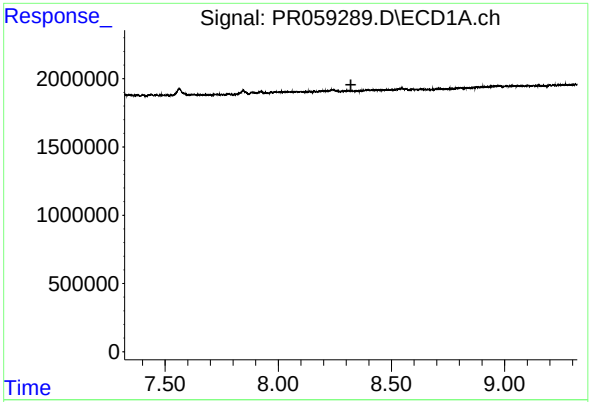
#38 AR-1262-3

R.T.: 8.242 min
Delta R.T.: 0.006 min
Response: 317274
Conc: 1.73 ng/ml



#38 AR-1262-3

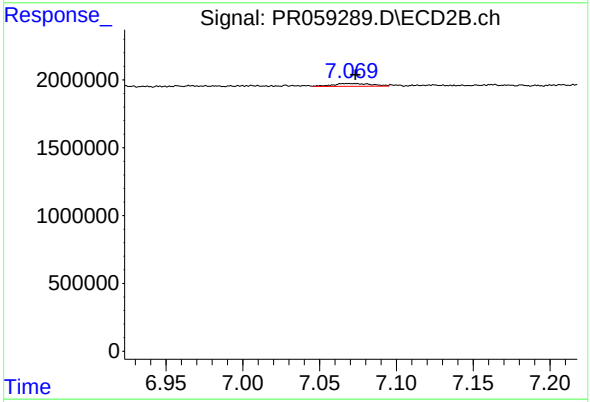
R.T.: 7.006 min
Delta R.T.: 0.000 min
Response: 112999
Conc: 0.59 ng/ml



#39 AR-1262-4

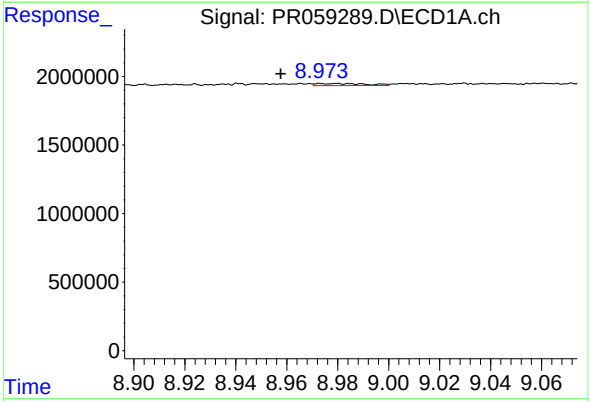
R.T.: 0.000 min
Exp R.T. : 8.321 min
Response: 0
Conc: N.D.

Instrument :
ECD_R
ClientSampleId :



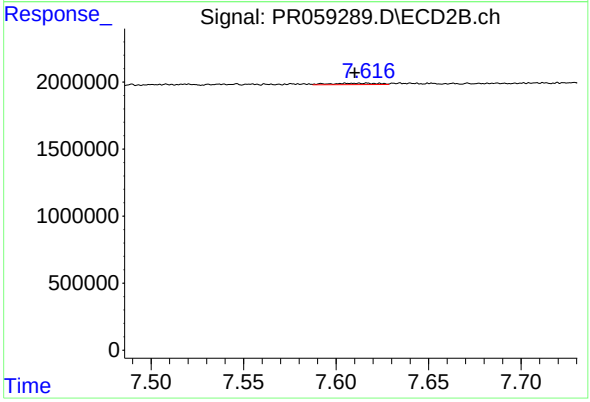
#39 AR-1262-4

R.T.: 7.069 min
Delta R.T.: -0.004 min
Response: 367567
Conc: 1.01 ng/ml



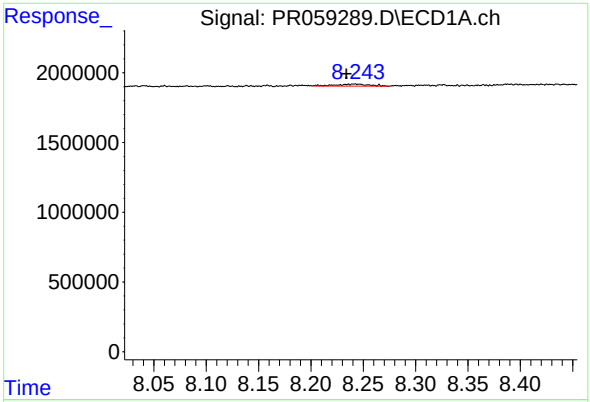
#40 AR-1262-5

R.T.: 8.973 min
Delta R.T.: 0.015 min
Response: 206434
Conc: 2.07 ng/ml



#40 AR-1262-5

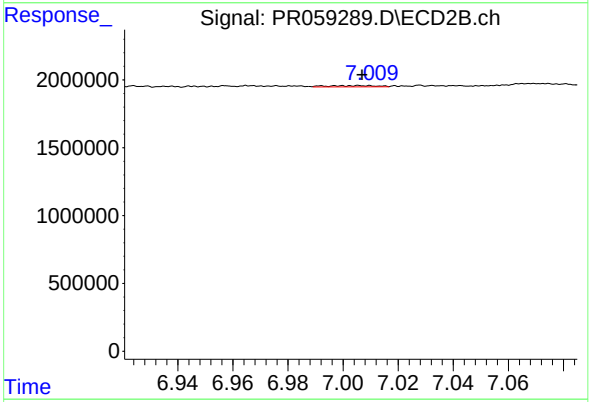
R.T.: 7.617 min
Delta R.T.: 0.007 min
Response: 191641
Conc: 1.19 ng/ml



#41 AR-1268-1

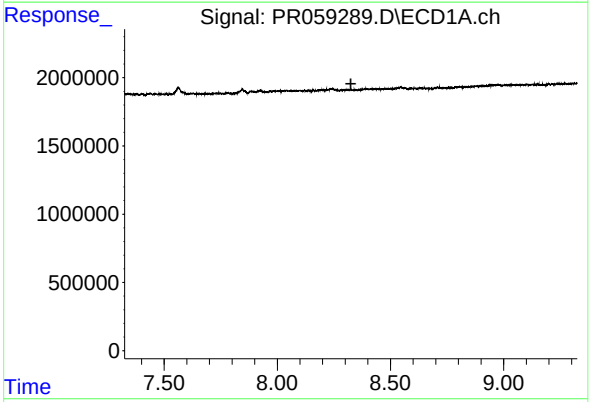
R.T.: 8.242 min
Delta R.T.: 0.008 min
Response: 317274
Conc: 0.74 ng/ml

Instrument :
ECD_R
ClientSampleId :



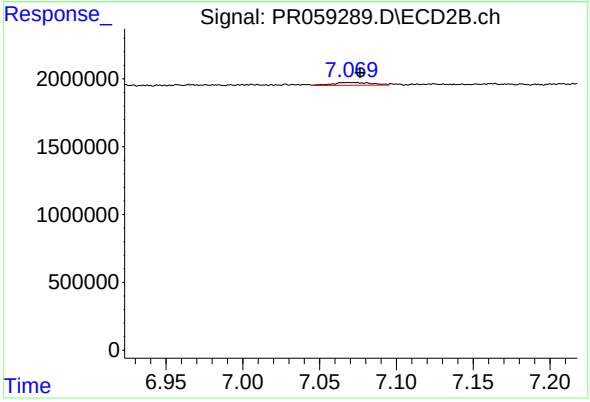
#41 AR-1268-1

R.T.: 7.006 min
Delta R.T.: -0.001 min
Response: 112999
Conc: 0.14 ng/ml



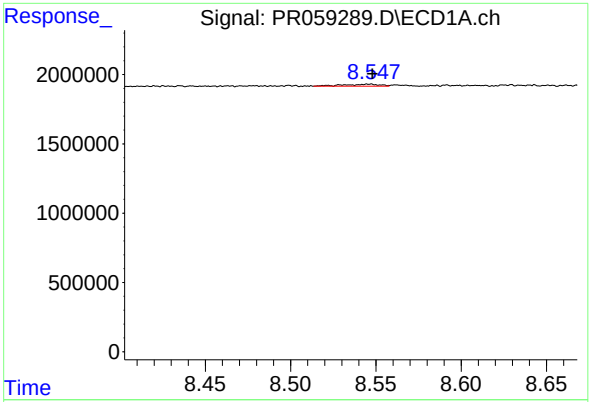
#42 AR-1268-2

R.T.: 0.000 min
Exp R.T. : 8.325 min
Response: 0
Conc: N.D.



#42 AR-1268-2

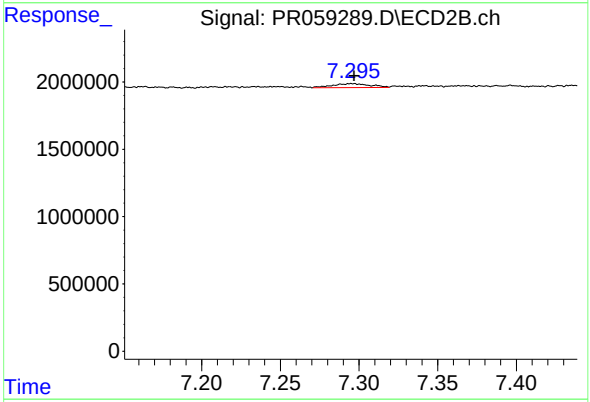
R.T.: 7.069 min
Delta R.T.: -0.007 min
Response: 367567
Conc: 0.50 ng/ml



#43 AR-1268-3

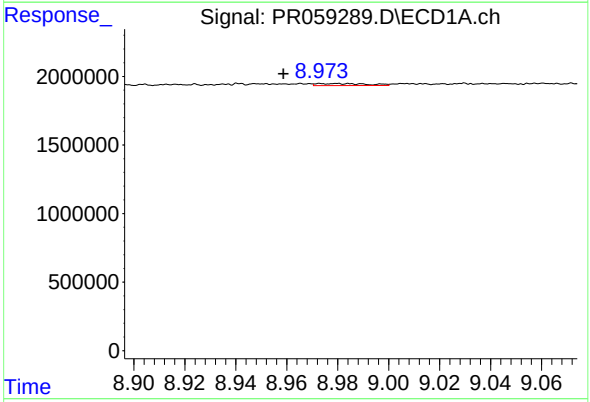
R.T.: 8.546 min
Delta R.T.: -0.002 min
Response: 201910
Conc: 0.60 ng/ml

Instrument :
ECD_R
ClientSampleId :



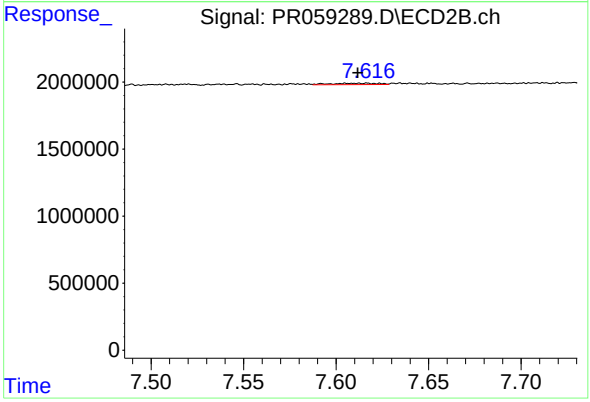
#43 AR-1268-3

R.T.: 7.295 min
Delta R.T.: -0.001 min
Response: 477240
Conc: 0.76 ng/ml



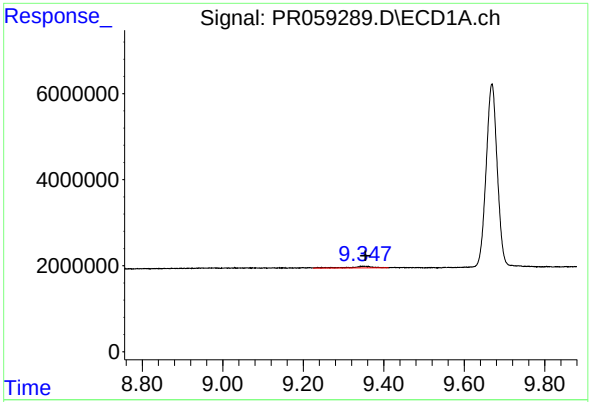
#44 AR-1268-4

R.T.: 8.973 min
Delta R.T.: 0.014 min
Response: 206434
Conc: 1.39 ng/ml



#44 AR-1268-4

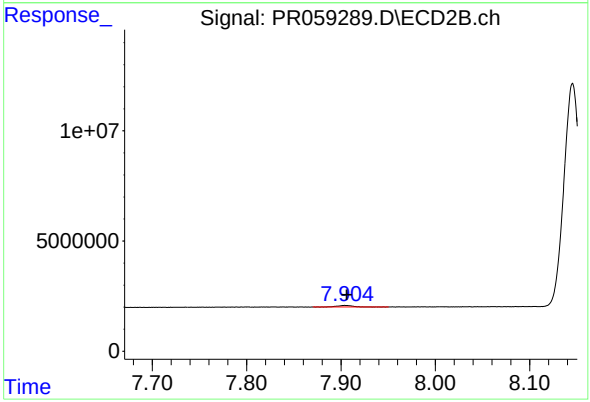
R.T.: 7.617 min
Delta R.T.: 0.005 min
Response: 191641
Conc: 0.77 ng/ml



#45 AR-1268-5

R.T.: 9.350 min
Delta R.T.: -0.004 min
Response: 1404482
Conc: 1.30 ng/ml

Instrument :
ECD_R
ClientSampleId :



#45 AR-1268-5

R.T.: 7.904 min
Delta R.T.: -0.002 min
Response: 828204
Conc: 0.43 ng/ml