

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR080418\
 Data File : PR031115.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Aug 2018 02:21
 Operator : SM\MA
 Sample : J4206-02
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 03 05:33:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR080218CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Aug 02 03:51:20 2018
 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...	4.561	3.692	414.8E6	726.3E6	31.314	32.935
2)	SA Decachlor...	10.336	8.582	1194.0E6	688.7E6	36.054	34.645
Target Compounds							
3)	L1 AR-1016-1	5.204f	4.353	799754	6581251	2.138	9.460 #
4)	L1 AR-1016-2	5.453	4.740	1217963	8345937	3.286	7.643 #
5)	L1 AR-1016-3	5.704	4.768	3438600	8413300	5.662	4.657
6)	L1 AR-1016-4	5.856f	4.851	493117	442644	0.922	0.366 #
7)	L1 AR-1016-5	6.186	5.204	1315833	4423639	2.791	4.029 #
8)	L2 AR-1221-1	0.000	3.894	0	2365654	N.D.	7.208 #
9)	L2 AR-1221-2	4.866	3.986	1971547	11220463	15.734	47.417 #
11)	L3 AR-1232-1	5.704f	4.550	3438600	8618942	8.586	23.993 #
12)	L3 AR-1232-2	5.935	4.768	2496801	8413300	11.858	9.376
13)	L3 AR-1232-3	5.997	5.032	2340002	11953586	13.760	27.302 #
14)	L3 AR-1232-4	6.601	5.350	14334552	17848466	73.440	48.496 #
15)	L3 AR-1232-5	6.649	5.581	1507400	54026	5.683	0.099 #
16)	L4 AR-1242-1	0.000	4.376	0	24108859	N.D.	63.903 #
17)	L4 AR-1242-2	6.037	4.943	1071982	1402519	3.101	1.825 #
18)	L4 AR-1242-3	6.276f	4.968	931007	6062228	5.049	9.204 #
19)	L4 AR-1242-4	6.276	5.699f	931007	122.0E6	7.314	122.366 #
20)	L4 AR-1242-5	6.353	5.806	39786786	20954732	87.872	30.885 #
21)	L5 AR-1248-1	5.997	4.968	2340002	6062228	3.363	4.247 #
22)	L5 AR-1248-2	6.601	5.532	14334552	13307553	18.732	4.386 #
23)	L5 AR-1248-3	6.601	5.581	14334552	54026	13.514	0.025 #
24)	L5 AR-1248-4	6.649	5.699f	1507400	122.0E6	1.522	61.957 #
25)	L5 AR-1248-5	6.846	6.087	22999652	111.0E6	34.209	71.744 #
26)	L6 AR-1254-1	6.784	5.699	52069656	122.0E6	34.251	45.362 #
27)	L6 AR-1254-2	7.052	6.028f	3935784	7488680	4.234	3.356
28)	L6 AR-1254-3	7.161	6.279	42805573	21641499	25.038	6.092 #
29)	L6 AR-1254-4	7.436	6.587	4206320	28205208	2.791	15.230 #
30)	L6 AR-1254-5	7.707	6.693	3000876	24016920	2.791	6.946 #
31)	L7 AR-1260-1	7.319	6.201	7846942	5268723	6.758	1.999 #
32)	L7 AR-1260-2	7.557	6.386	93808698	15860940	55.570	4.842 #
33)	L7 AR-1260-3	7.870	6.523	21829102	6270811	11.348	2.305 #
34)	L7 AR-1260-4	8.173	6.993	11511399	350250	8.216	0.203 #
35)	L7 AR-1260-5	8.510	7.236	11446232	5125597	3.271	1.382 #
36)	L8 AR-1262-1	7.266f	6.087	7688439	111.0E6	8.481	57.745 #
37)	L8 AR-1262-2	8.044f	6.796	1074503	7209738	1.167	4.118 #
38)	L8 AR-1262-3	8.251	7.080	2915600	2748132	3.668	2.056 #
39)	L8 AR-1262-4	8.885	7.522	4318049	24218713	1.792	11.943 #
40)	L8 AR-1262-5	9.567	8.096	1665960	6890715	0.949	4.979 #
41)	L9 AR-1268-1	7.928	6.751	23526152	15328465	25.953	9.333 #
42)	L9 AR-1268-2	8.173	7.585	11511399	2170899	8.996	0.501 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR080418\
 Data File : PR031115.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 03 Aug 2018 02:21
 Operator : SM\MA
 Sample : J4206-02
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 03 05:33:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR080218CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Aug 02 03:51:20 2018
 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
43) L9	AR-1268-3	8.823	7.771	3521606	2539597	0.614	0.718
44) L9	AR-1268-4	9.135	7.859	23618659	3625523	5.068	3.603 #
45) L9	AR-1268-5	9.988	8.344	12169001	9889927	0.880	1.143 #

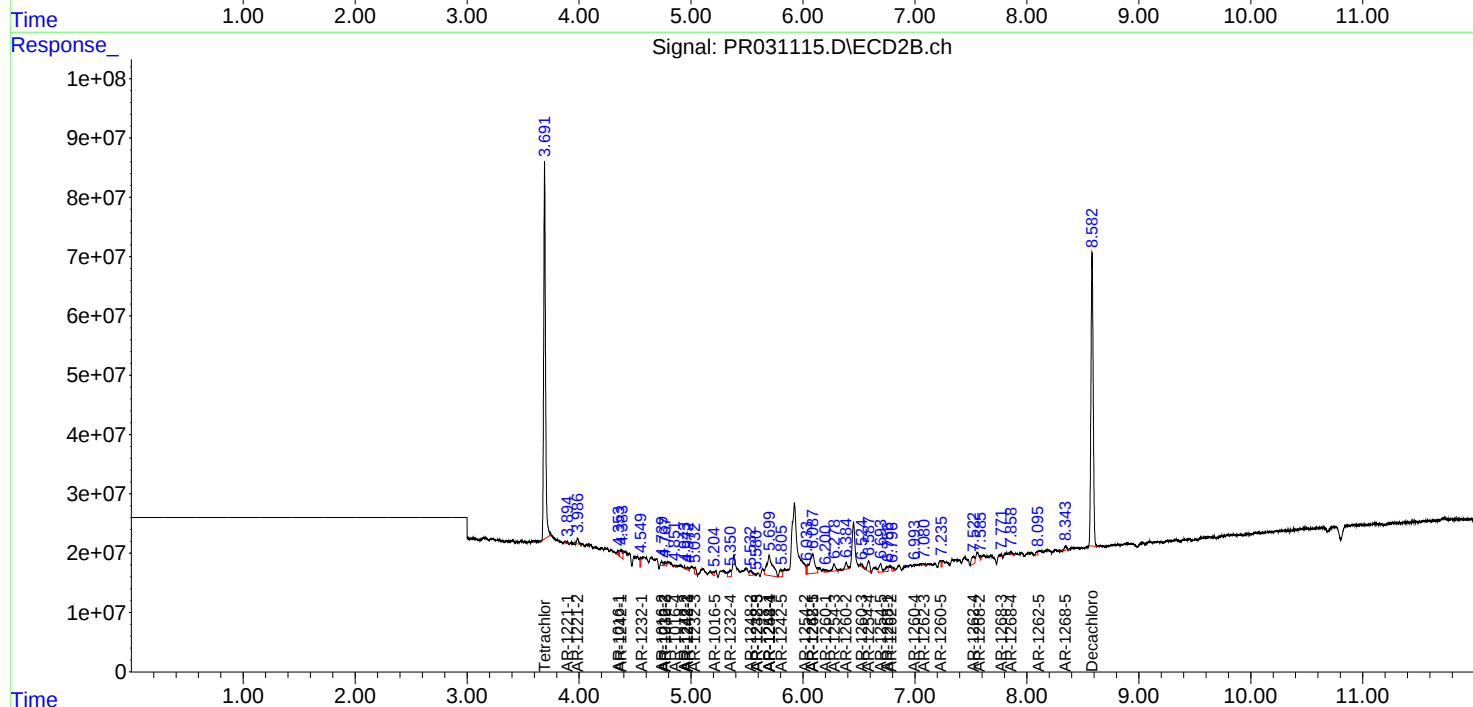
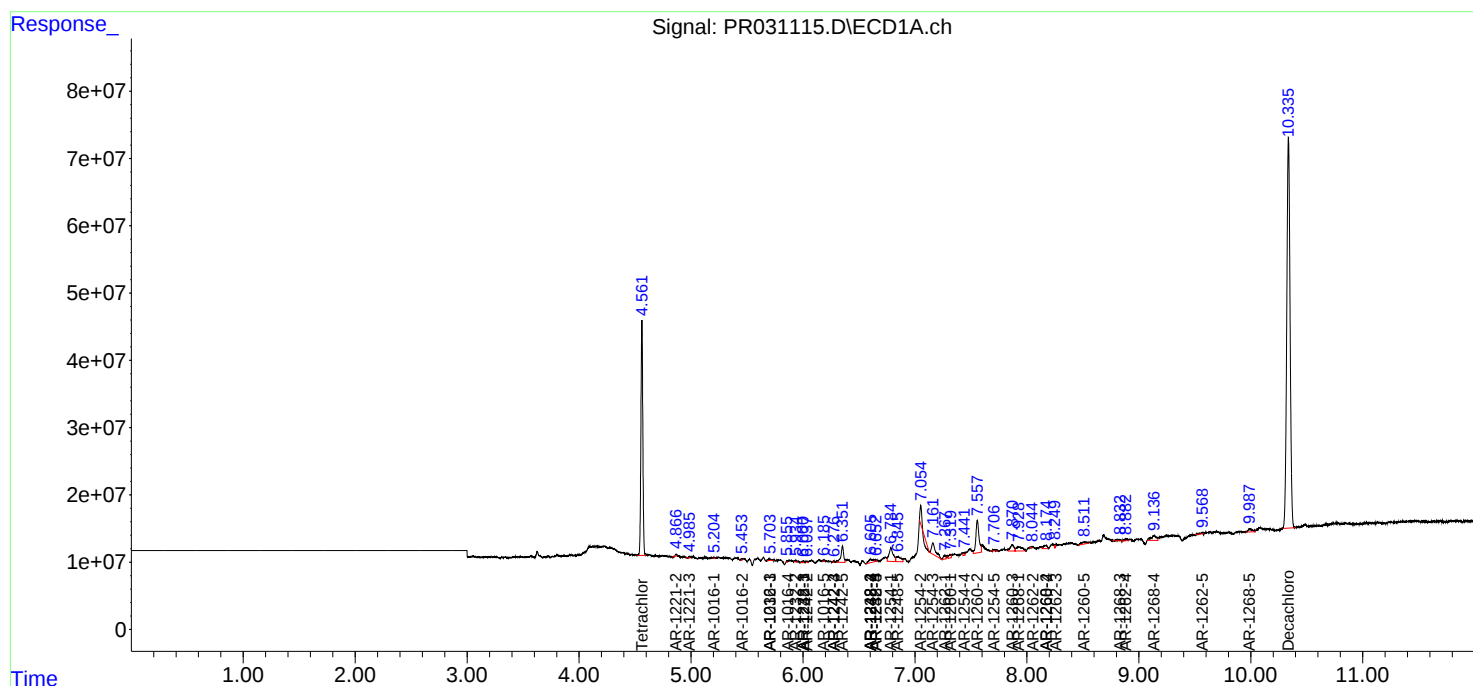
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

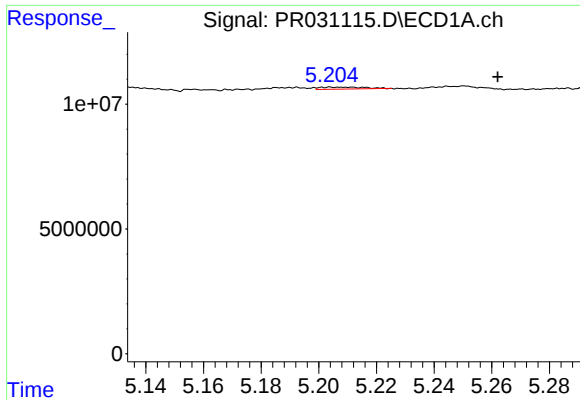
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR080418\
Data File : PR031115.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Aug 2018 02:21
Operator : SM\MA
Sample : J4206-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 03 05:33:26 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR080218CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Aug 02 03:51:20 2018
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

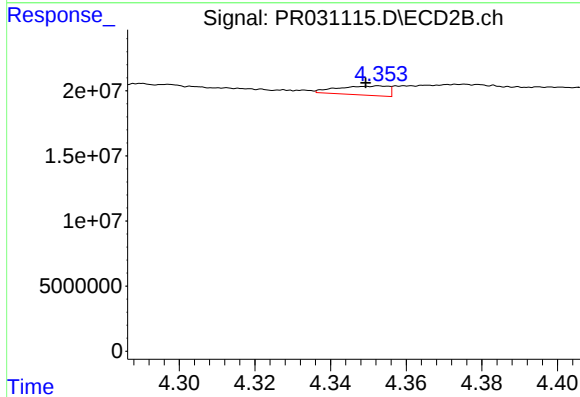




#3 AR-1016-1

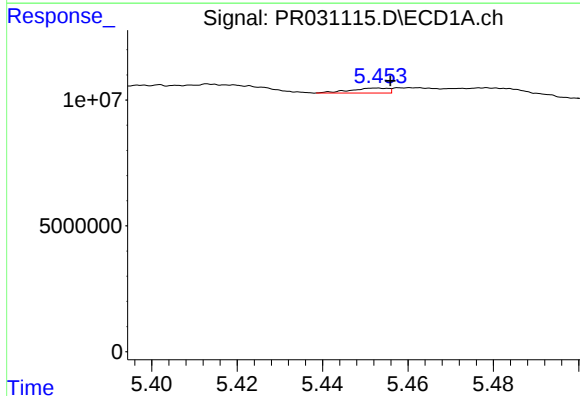
R.T.: 5.204 min
Delta R.T.: -0.058 min
Response: 799754
Conc: 2.14 ng/ml

Instrument :
ECD_R
ClientSampleId :



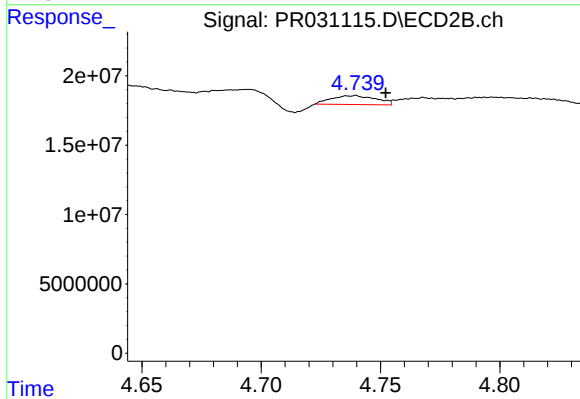
#3 AR-1016-1

R.T.: 4.353 min
Delta R.T.: 0.004 min
Response: 6581251
Conc: 9.46 ng/ml



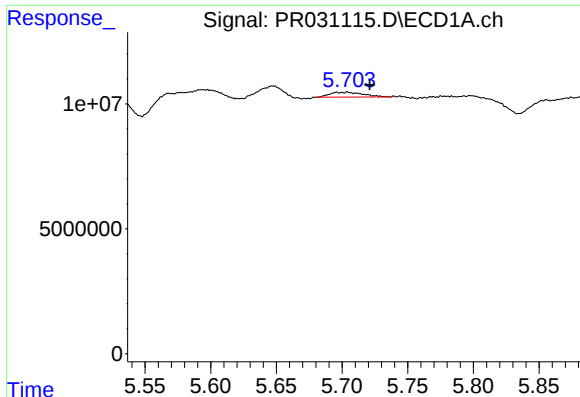
#4 AR-1016-2

R.T.: 5.453 min
Delta R.T.: -0.003 min
Response: 1217963
Conc: 3.29 ng/ml



#4 AR-1016-2

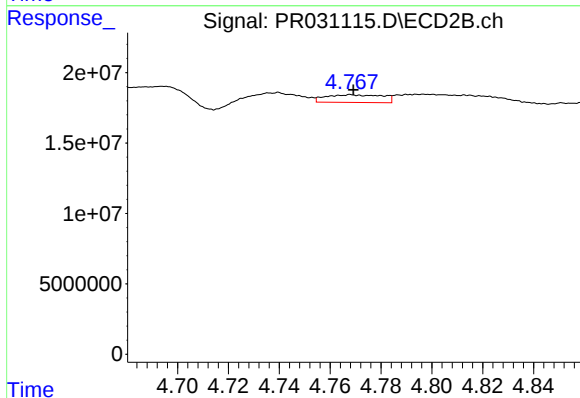
R.T.: 4.740 min
Delta R.T.: -0.013 min
Response: 8345937
Conc: 7.64 ng/ml



#5 AR-1016-3

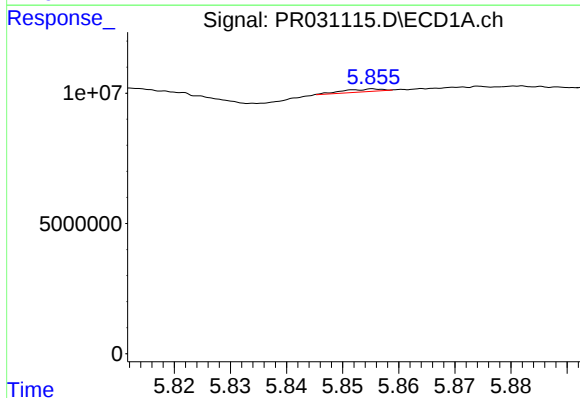
R.T.: 5.704 min
Delta R.T.: -0.017 min
Response: 3438600
Conc: 5.66 ng/ml

Instrument :
ECD_R
ClientSampleId :



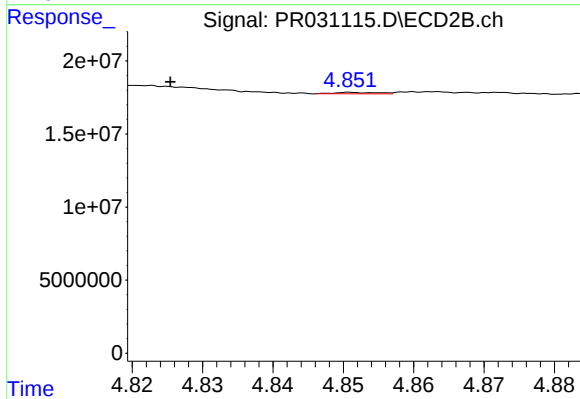
#5 AR-1016-3

R.T.: 4.768 min
Delta R.T.: -0.001 min
Response: 8413300
Conc: 4.66 ng/ml



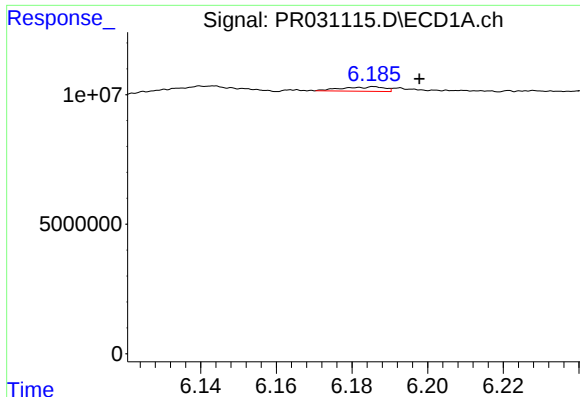
#6 AR-1016-4

R.T.: 5.856 min
Delta R.T.: 0.049 min
Response: 493117
Conc: 0.92 ng/ml



#6 AR-1016-4

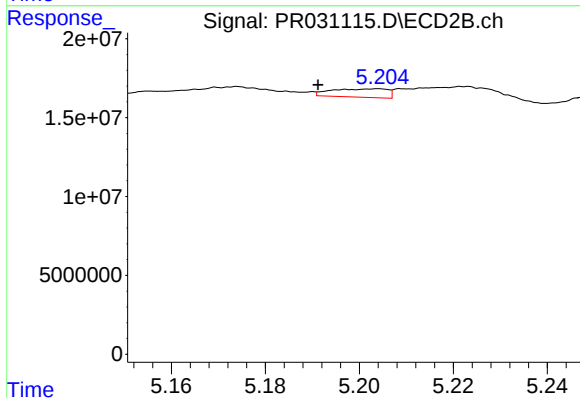
R.T.: 4.851 min
Delta R.T.: 0.026 min
Response: 442644
Conc: 0.37 ng/ml



#7 AR-1016-5

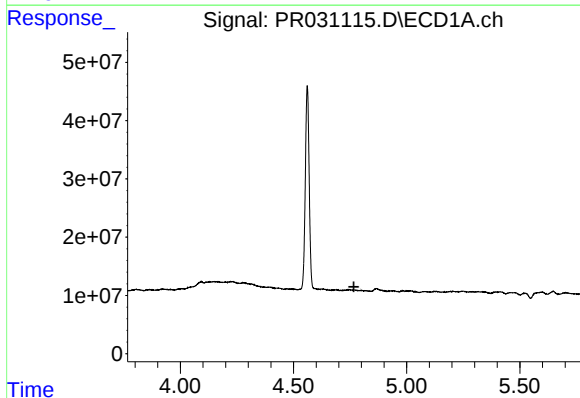
R.T.: 6.186 min
Delta R.T.: -0.012 min
Response: 1315833
Conc: 2.79 ng/ml

Instrument :
ECD_R
ClientSampleId :



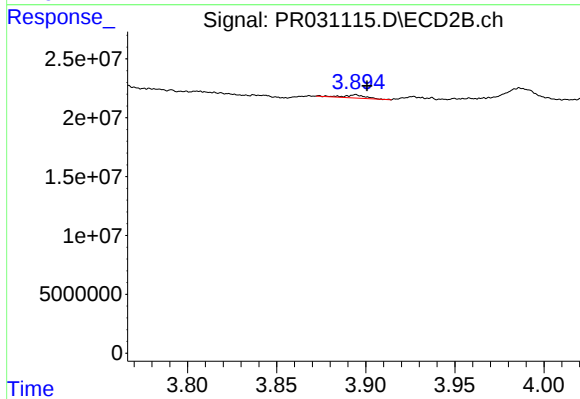
#7 AR-1016-5

R.T.: 5.204 min
Delta R.T.: 0.013 min
Response: 4423639
Conc: 4.03 ng/ml



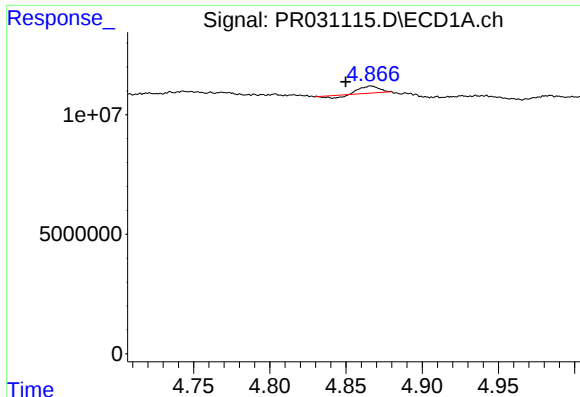
#8 AR-1221-1

R.T.: 0.000 min
Exp R.T. : 4.767 min
Response: 0
Conc: N.D.



#8 AR-1221-1

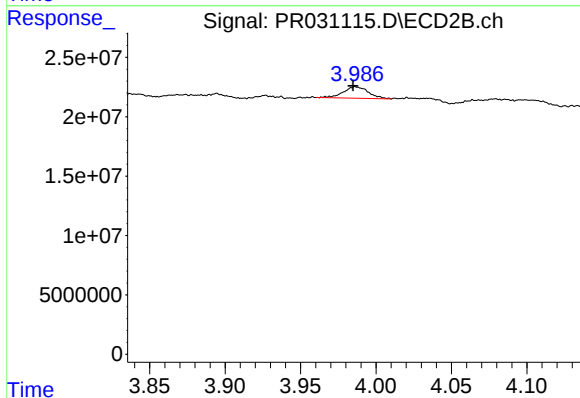
R.T.: 3.894 min
Delta R.T.: -0.006 min
Response: 2365654
Conc: 7.21 ng/ml



#9 AR-1221-2

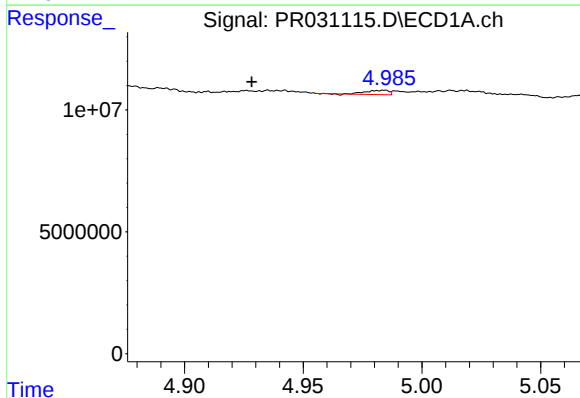
R.T.: 4.866 min
Delta R.T.: 0.016 min
Response: 1971547
Conc: 15.73 ng/ml

Instrument :
ECD_R
ClientSampleId :



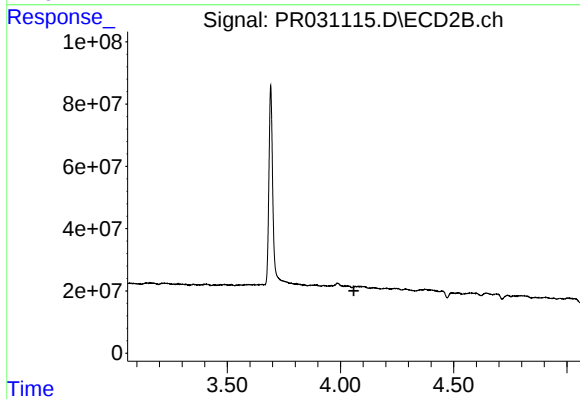
#9 AR-1221-2

R.T.: 3.986 min
Delta R.T.: 0.002 min
Response: 11220463
Conc: 47.42 ng/ml



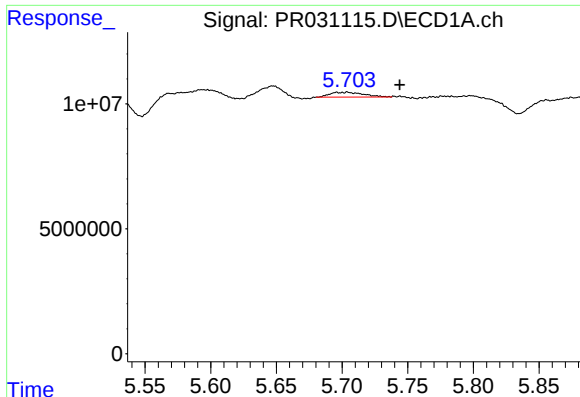
#10 AR-1221-3

R.T.: 4.984 min
Delta R.T.: 0.056 min
Response: 1126149
Conc: 2.40 ng/ml



#10 AR-1221-3

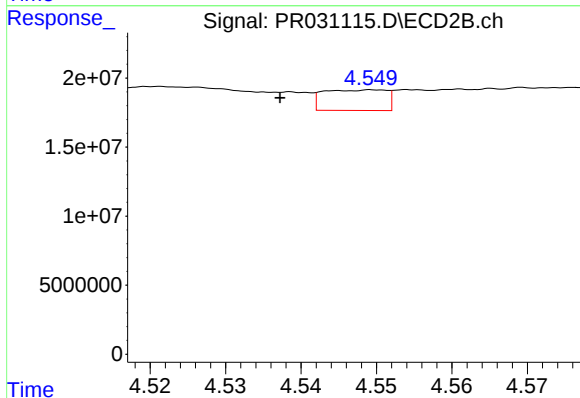
R.T.: 4.079 min
Delta R.T.: 0.020 min
Response: -2105633
Conc: N.D.



#11 AR-1232-1

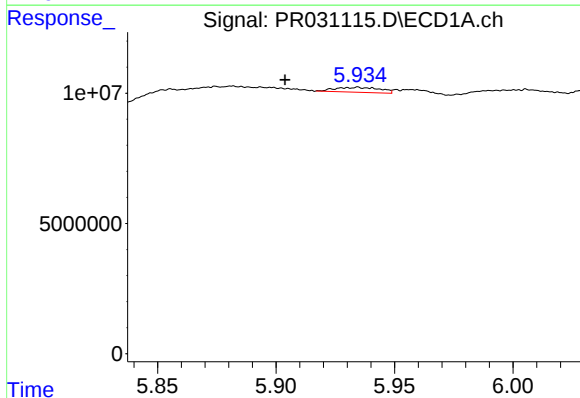
R.T.: 5.704 min
Delta R.T.: -0.040 min
Response: 3438600
Conc: 8.59 ng/ml

Instrument :
ECD_R
ClientSampleId :



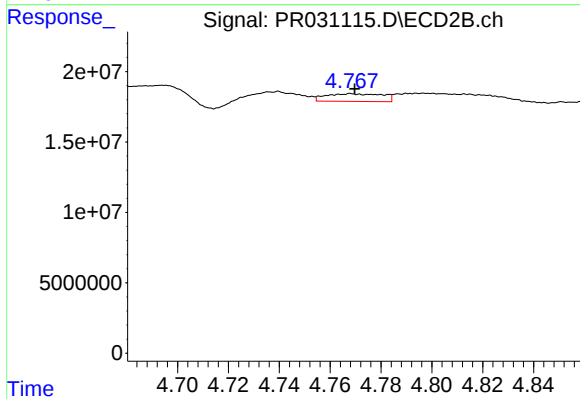
#11 AR-1232-1

R.T.: 4.550 min
Delta R.T.: 0.012 min
Response: 8618942
Conc: 23.99 ng/ml



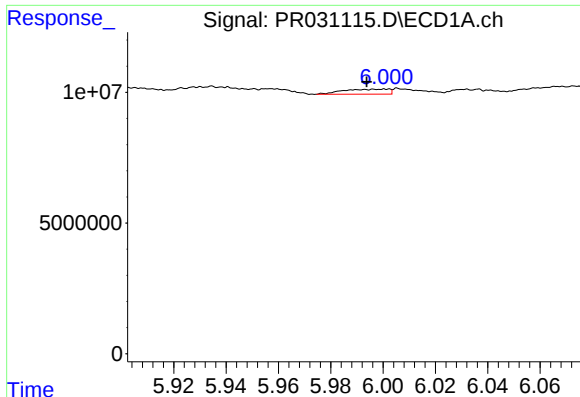
#12 AR-1232-2

R.T.: 5.935 min
Delta R.T.: 0.031 min
Response: 2496801
Conc: 11.86 ng/ml



#12 AR-1232-2

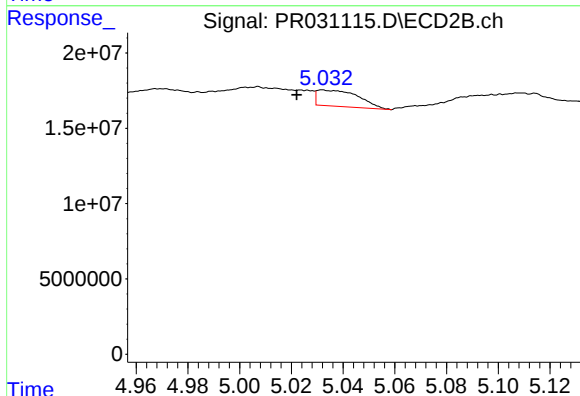
R.T.: 4.768 min
Delta R.T.: -0.002 min
Response: 8413300
Conc: 9.38 ng/ml



#13 AR-1232-3

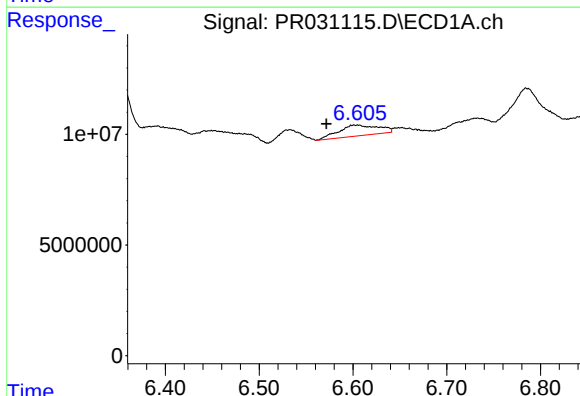
R.T.: 5.997 min
Delta R.T.: 0.003 min
Response: 2340002
Conc: 13.76 ng/ml

Instrument :
ECD_R
ClientSampleId :



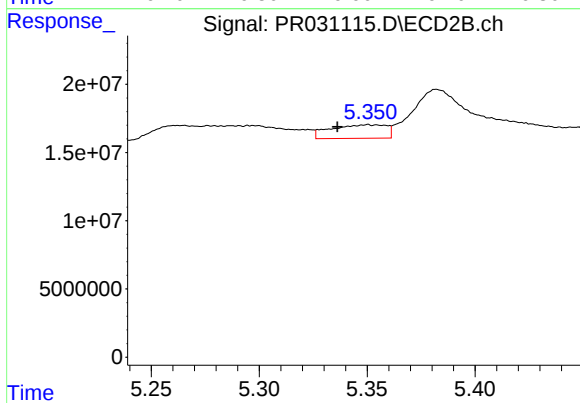
#13 AR-1232-3

R.T.: 5.032 min
Delta R.T.: 0.010 min
Response: 11953586
Conc: 27.30 ng/ml



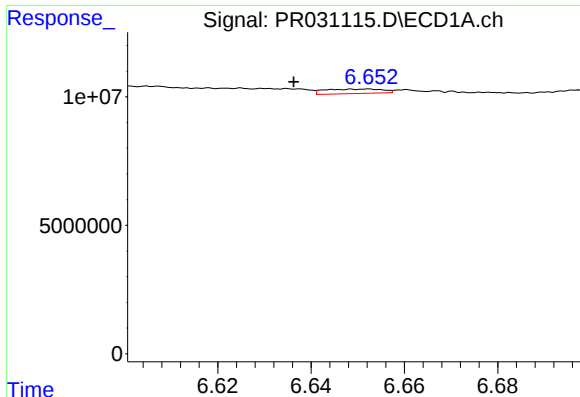
#14 AR-1232-4

R.T.: 6.601 min
Delta R.T.: 0.029 min
Response: 14334552
Conc: 73.44 ng/ml



#14 AR-1232-4

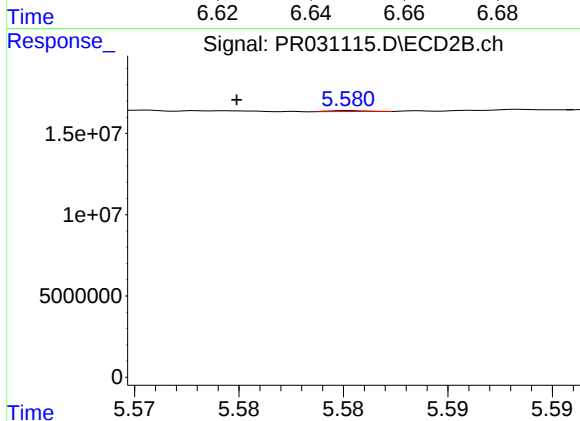
R.T.: 5.350 min
Delta R.T.: 0.014 min
Response: 17848466
Conc: 48.50 ng/ml



#15 AR-1232-5

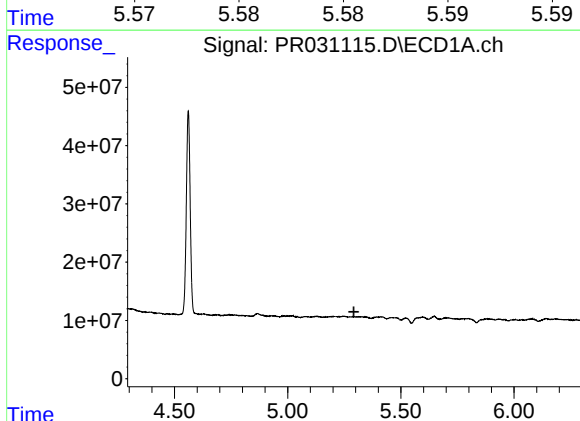
R.T.: 6.649 min
Delta R.T.: 0.013 min
Response: 1507400
Conc: 5.68 ng/ml

Instrument :
ECD_R
ClientSampleId :



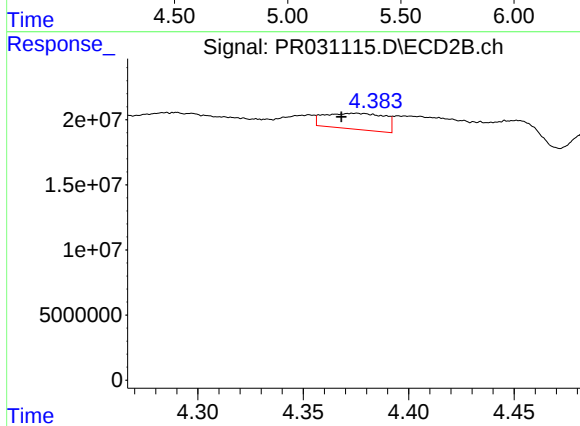
#15 AR-1232-5

R.T.: 5.581 min
Delta R.T.: 0.006 min
Response: 54026
Conc: 0.10 ng/ml



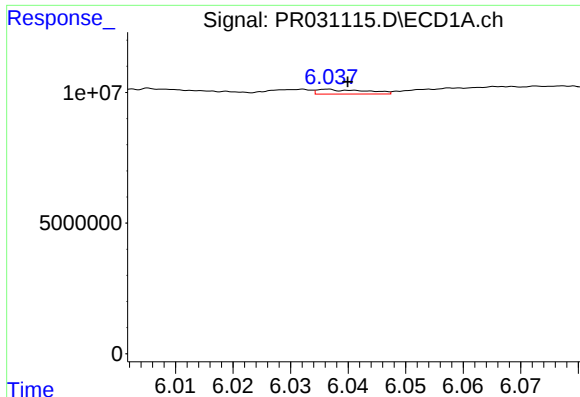
#16 AR-1242-1

R.T.: 0.000 min
Exp R.T. : 5.292 min
Response: 0
Conc: N.D.



#16 AR-1242-1

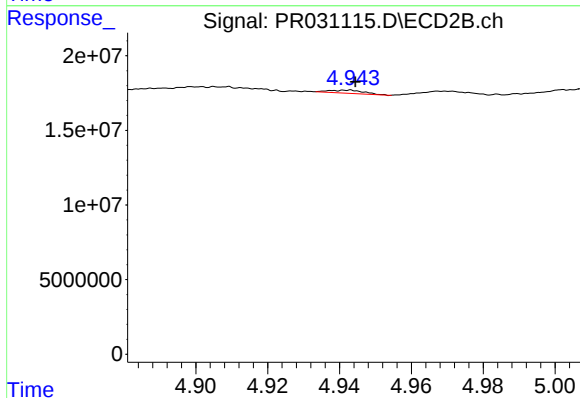
R.T.: 4.376 min
Delta R.T.: 0.007 min
Response: 24108859
Conc: 63.90 ng/ml



#17 AR-1242-2

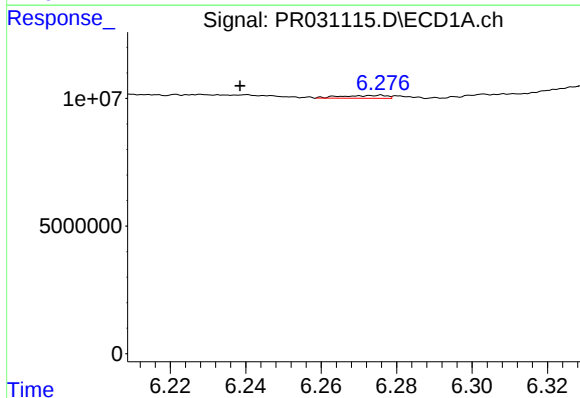
R.T.: 6.037 min
Delta R.T.: -0.003 min
Response: 1071982
Conc: 3.10 ng/ml

Instrument :
ECD_R
ClientSampleId :



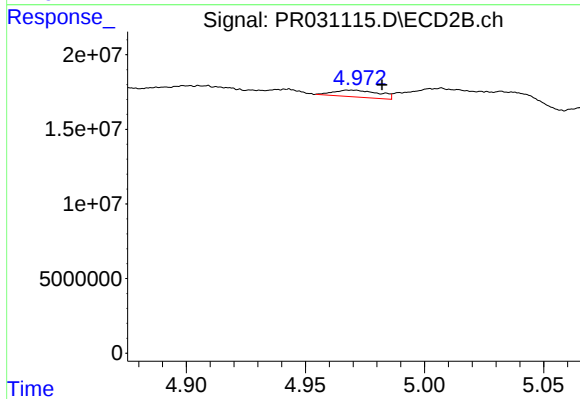
#17 AR-1242-2

R.T.: 4.943 min
Delta R.T.: -0.001 min
Response: 1402519
Conc: 1.83 ng/ml



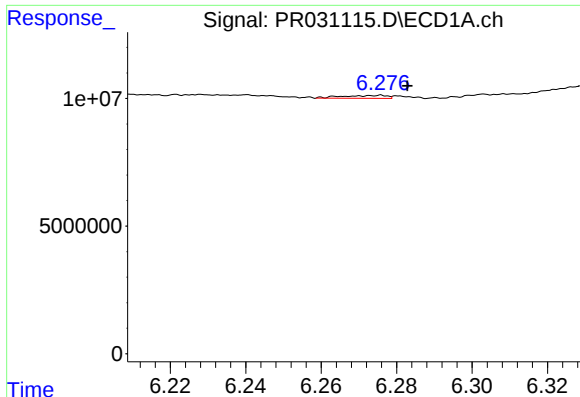
#18 AR-1242-3

R.T.: 6.276 min
Delta R.T.: 0.038 min
Response: 931007
Conc: 5.05 ng/ml



#18 AR-1242-3

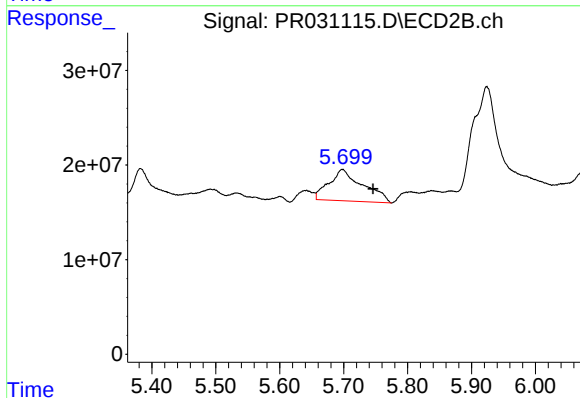
R.T.: 4.968 min
Delta R.T.: -0.014 min
Response: 6062228
Conc: 9.20 ng/ml



#19 AR-1242-4

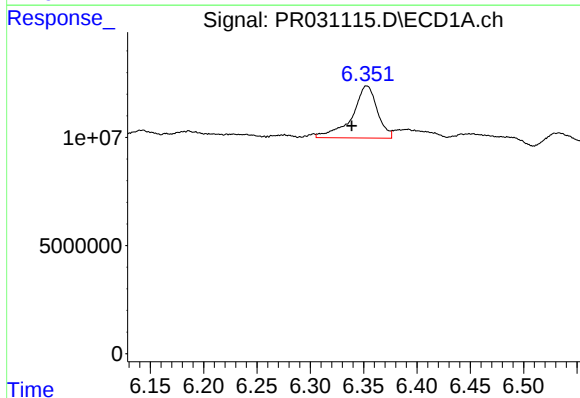
R.T.: 6.276 min
Delta R.T.: -0.007 min
Response: 931007
Conc: 7.31 ng/ml

Instrument :
ECD_R
ClientSampleId :



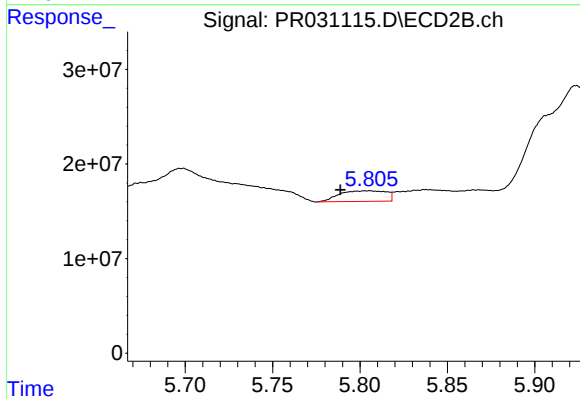
#19 AR-1242-4

R.T.: 5.699 min
Delta R.T.: -0.047 min
Response: 122034385
Conc: 122.37 ng/ml



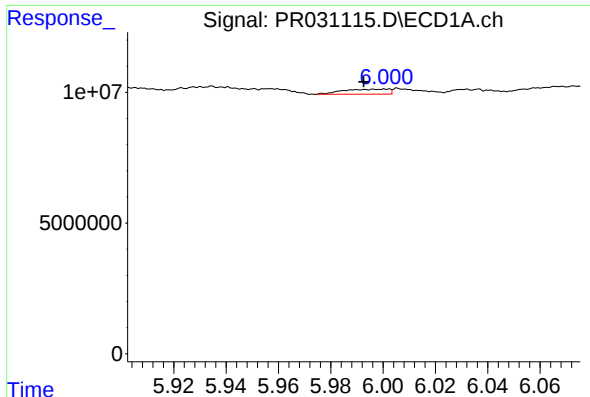
#20 AR-1242-5

R.T.: 6.353 min
Delta R.T.: 0.014 min
Response: 39786786
Conc: 87.87 ng/ml



#20 AR-1242-5

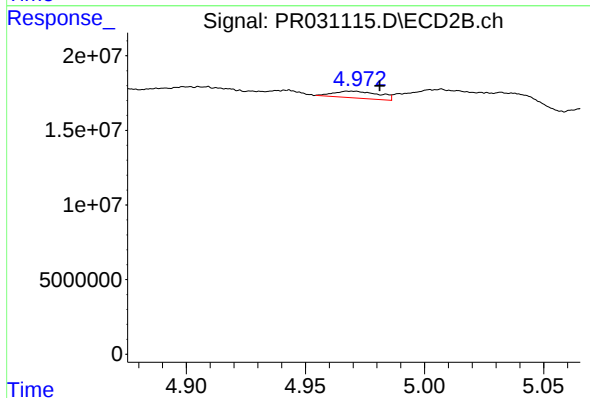
R.T.: 5.806 min
Delta R.T.: 0.017 min
Response: 20954732
Conc: 30.88 ng/ml



#21 AR-1248-1

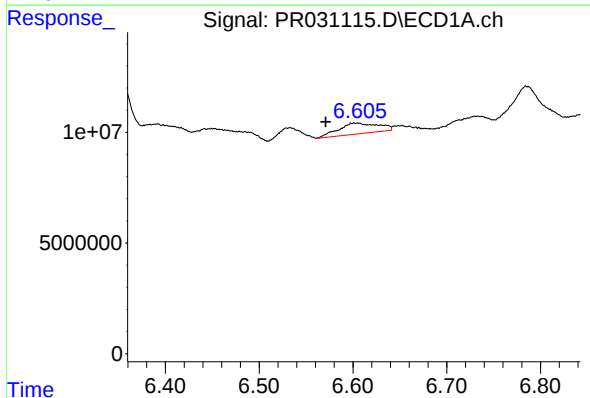
R.T.: 5.997 min
Delta R.T.: 0.004 min
Response: 2340002
Conc: 3.36 ng/ml

Instrument :
ECD_R
ClientSampleId :



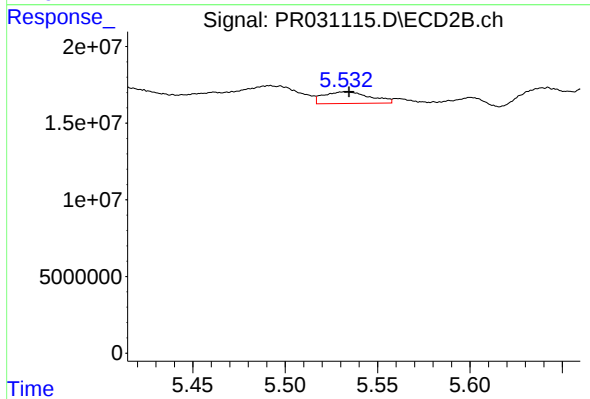
#21 AR-1248-1

R.T.: 4.968 min
Delta R.T.: -0.013 min
Response: 6062228
Conc: 4.25 ng/ml



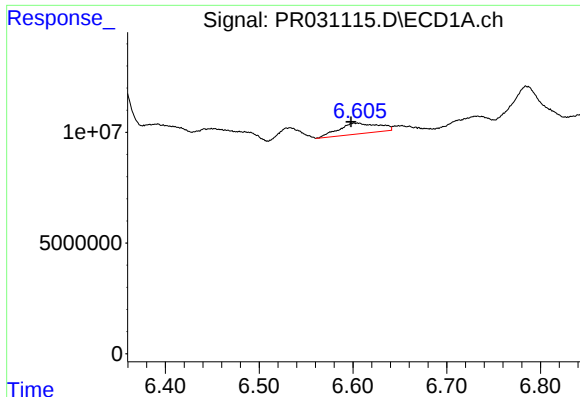
#22 AR-1248-2

R.T.: 6.601 min
Delta R.T.: 0.030 min
Response: 14334552
Conc: 18.73 ng/ml



#22 AR-1248-2

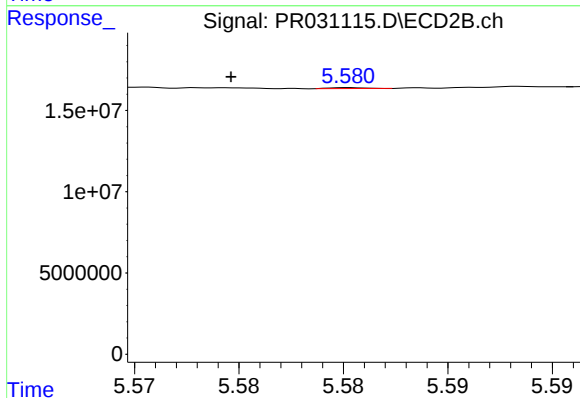
R.T.: 5.532 min
Delta R.T.: -0.002 min
Response: 13307553
Conc: 4.39 ng/ml



#23 AR-1248-3

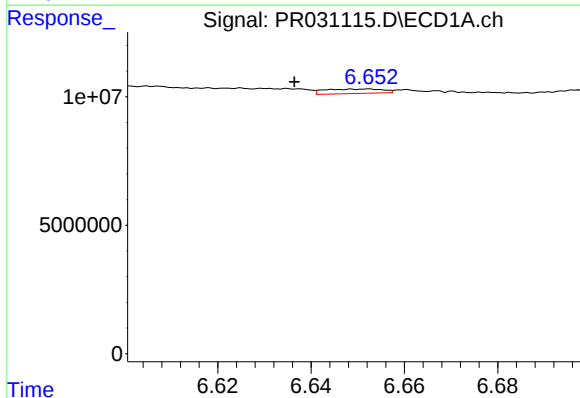
R.T.: 6.601 min
Delta R.T.: 0.003 min
Response: 14334552
Conc: 13.51 ng/ml

Instrument :
ECD_R
ClientSampleId :



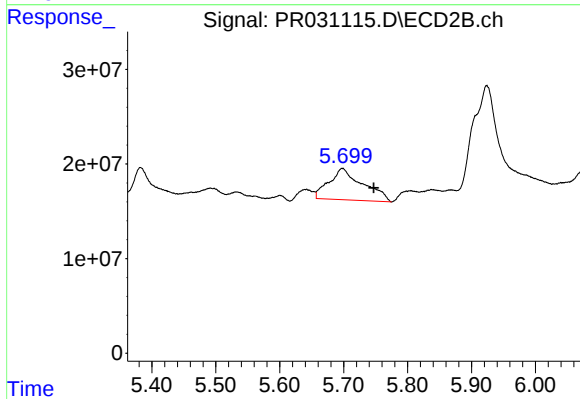
#23 AR-1248-3

R.T.: 5.581 min
Delta R.T.: 0.006 min
Response: 54026
Conc: 0.02 ng/ml



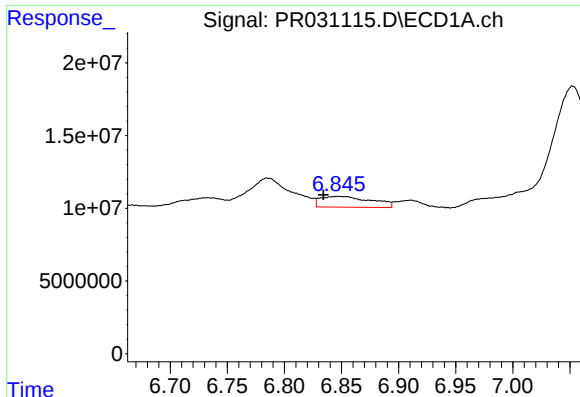
#24 AR-1248-4

R.T.: 6.649 min
Delta R.T.: 0.012 min
Response: 1507400
Conc: 1.52 ng/ml



#24 AR-1248-4

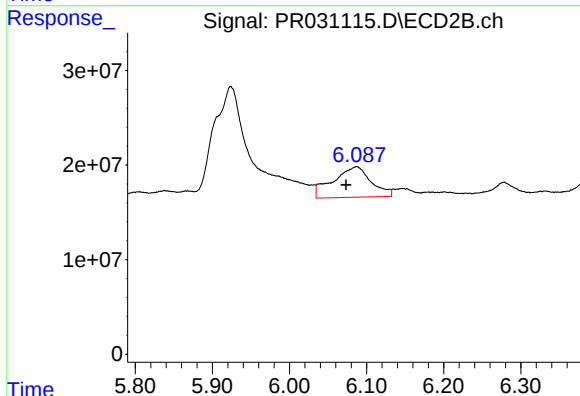
R.T.: 5.699 min
Delta R.T.: -0.048 min
Response: 122034385
Conc: 61.96 ng/ml



#25 AR-1248-5

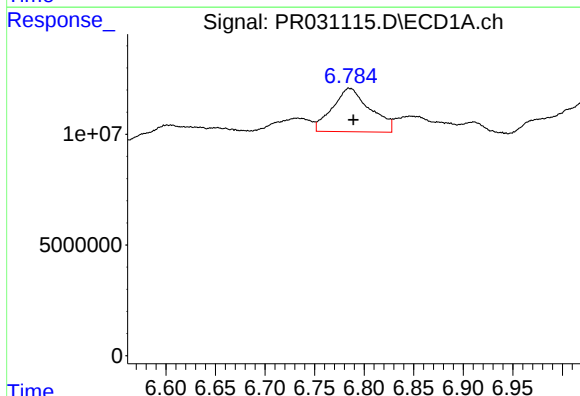
R.T.: 6.846 min
Delta R.T.: 0.012 min
Response: 22999652
Conc: 34.21 ng/ml

Instrument :
ECD_R
ClientSampleId :



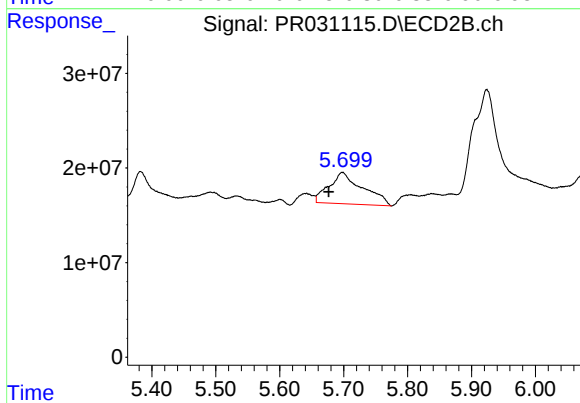
#25 AR-1248-5

R.T.: 6.087 min
Delta R.T.: 0.013 min
Response: 110975133
Conc: 71.74 ng/ml



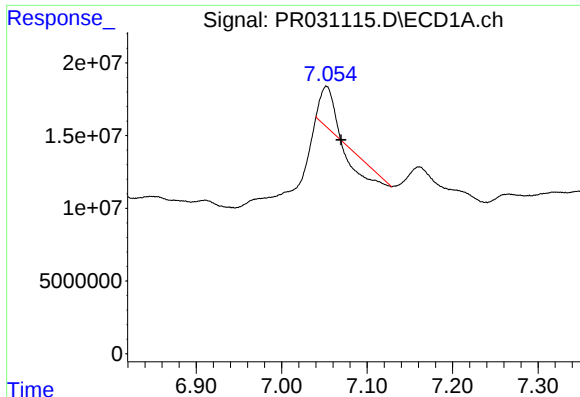
#26 AR-1254-1

R.T.: 6.784 min
Delta R.T.: -0.005 min
Response: 52069656
Conc: 34.25 ng/ml



#26 AR-1254-1

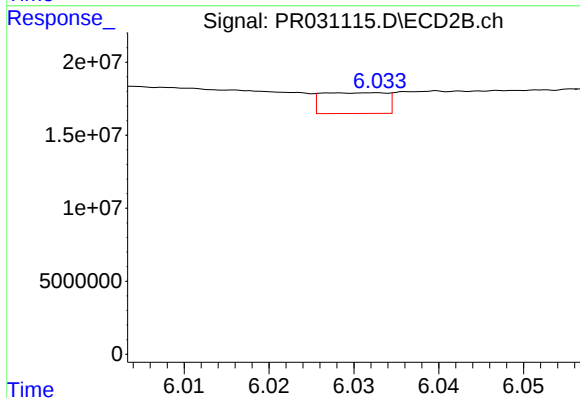
R.T.: 5.699 min
Delta R.T.: 0.023 min
Response: 122034385
Conc: 45.36 ng/ml



#27 AR-1254-2

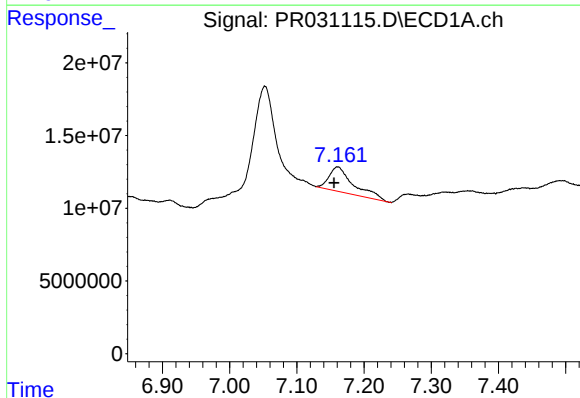
R.T.: 7.052 min
Delta R.T.: -0.017 min
Response: 3935784
Conc: 4.23 ng/ml

Instrument :
ECD_R
ClientSampleId :



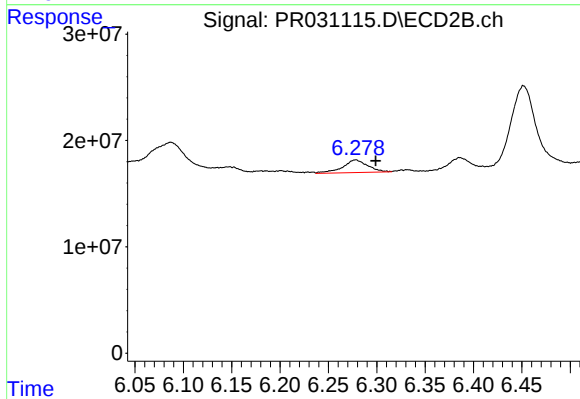
#27 AR-1254-2

R.T.: 6.028 min
Delta R.T.: 0.042 min
Response: 7488680
Conc: 3.36 ng/ml



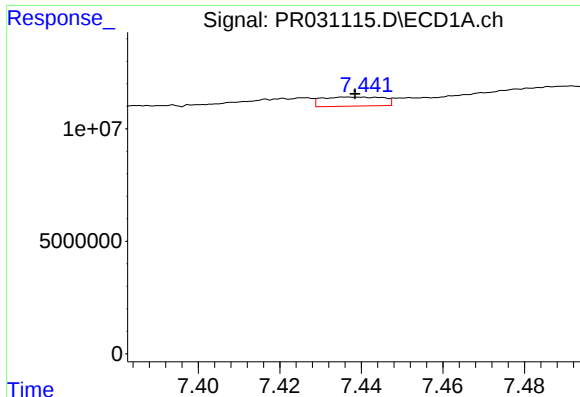
#28 AR-1254-3

R.T.: 7.161 min
Delta R.T.: 0.006 min
Response: 42805573
Conc: 25.04 ng/ml



#28 AR-1254-3

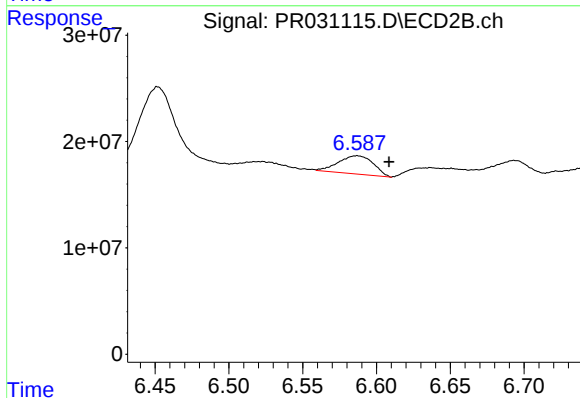
R.T.: 6.279 min
Delta R.T.: -0.020 min
Response: 21641499
Conc: 6.09 ng/ml



#29 AR-1254-4

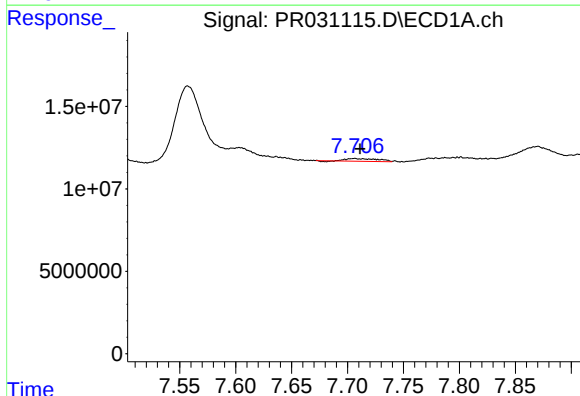
R.T.: 7.436 min
Delta R.T.: -0.002 min
Response: 4206320
Conc: 2.79 ng/ml

Instrument :
ECD_R
ClientSampleId :



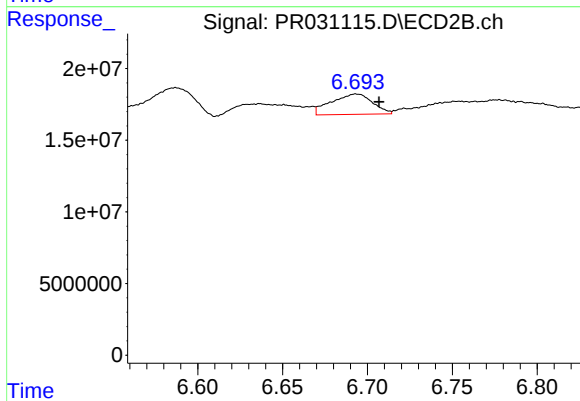
#29 AR-1254-4

R.T.: 6.587 min
Delta R.T.: -0.021 min
Response: 28205208
Conc: 15.23 ng/ml



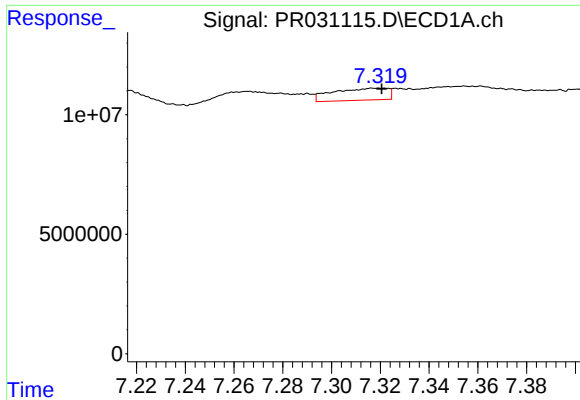
#30 AR-1254-5

R.T.: 7.707 min
Delta R.T.: -0.005 min
Response: 3000876
Conc: 2.79 ng/ml



#30 AR-1254-5

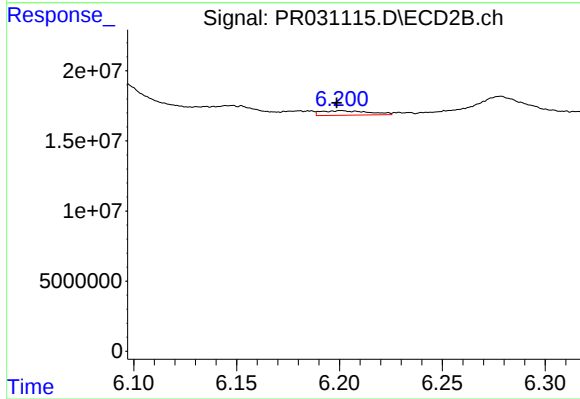
R.T.: 6.693 min
Delta R.T.: -0.014 min
Response: 24016920
Conc: 6.95 ng/ml



#31 AR-1260-1

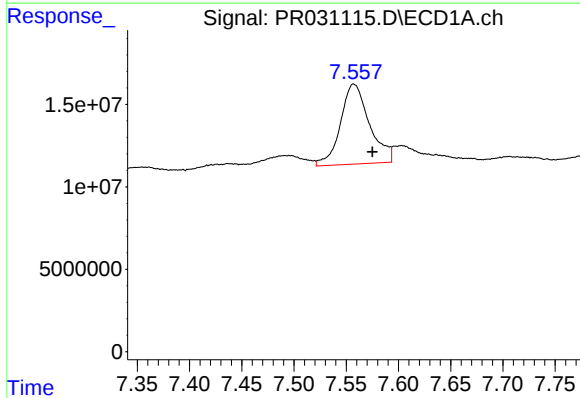
R.T.: 7.319 min
Delta R.T.: -0.001 min
Response: 7846942
Conc: 6.76 ng/ml

Instrument :
ECD_R
ClientSampleId :



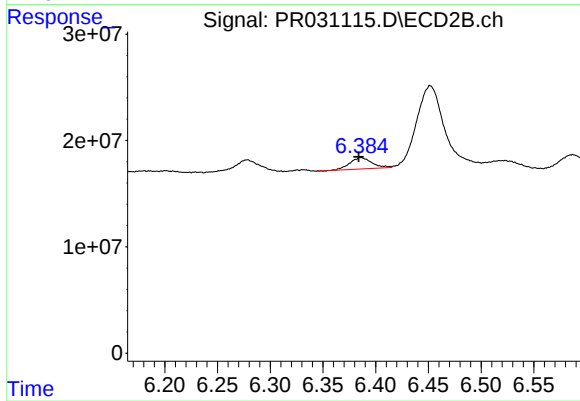
#31 AR-1260-1

R.T.: 6.201 min
Delta R.T.: 0.002 min
Response: 5268723
Conc: 2.00 ng/ml



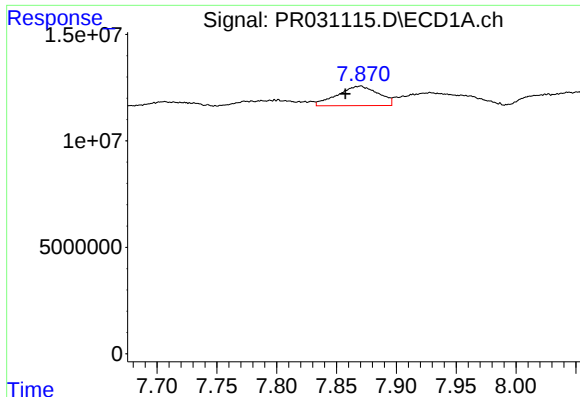
#32 AR-1260-2

R.T.: 7.557 min
Delta R.T.: -0.018 min
Response: 93808698
Conc: 55.57 ng/ml



#32 AR-1260-2

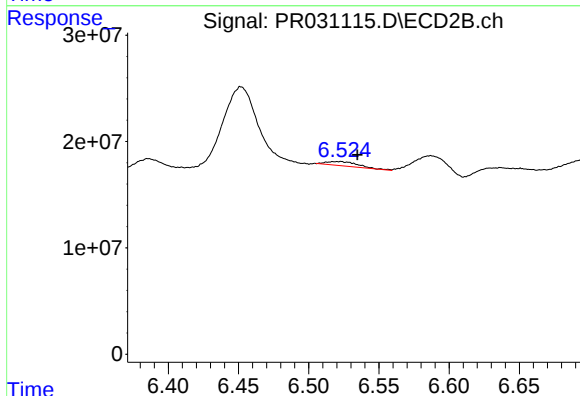
R.T.: 6.386 min
Delta R.T.: 0.002 min
Response: 15860940
Conc: 4.84 ng/ml



#33 AR-1260-3

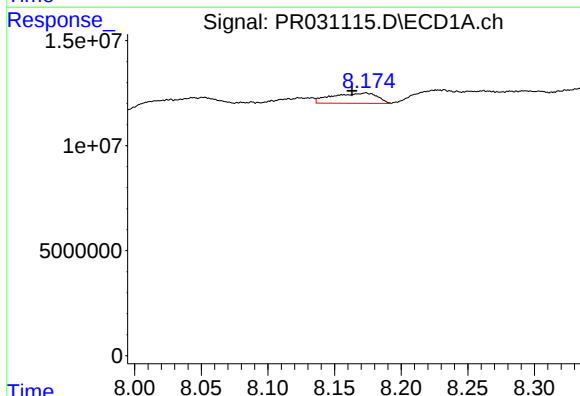
R.T.: 7.870 min
Delta R.T.: 0.013 min
Response: 21829102
Conc: 11.35 ng/ml

Instrument :
ECD_R
ClientSampleId :



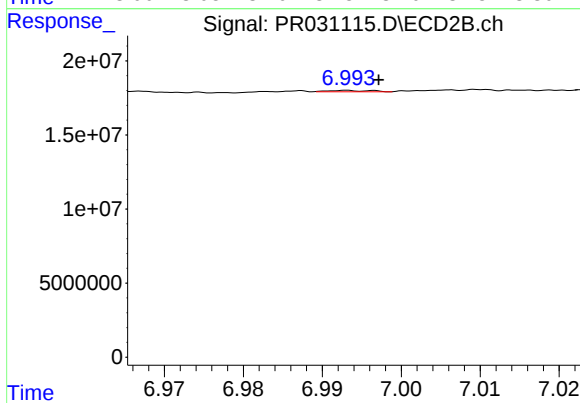
#33 AR-1260-3

R.T.: 6.523 min
Delta R.T.: -0.011 min
Response: 6270811
Conc: 2.31 ng/ml



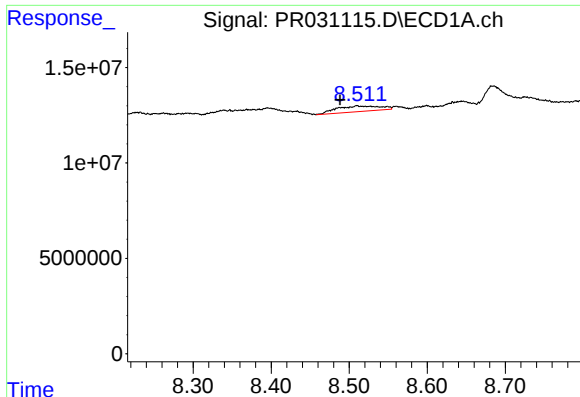
#34 AR-1260-4

R.T.: 8.173 min
Delta R.T.: 0.010 min
Response: 11511399
Conc: 8.22 ng/ml



#34 AR-1260-4

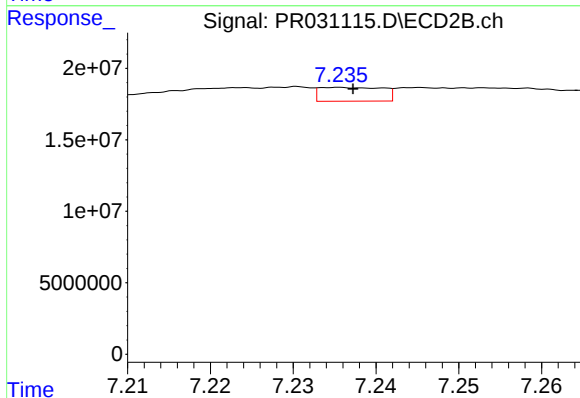
R.T.: 6.993 min
Delta R.T.: -0.004 min
Response: 350250
Conc: 0.20 ng/ml



#35 AR-1260-5

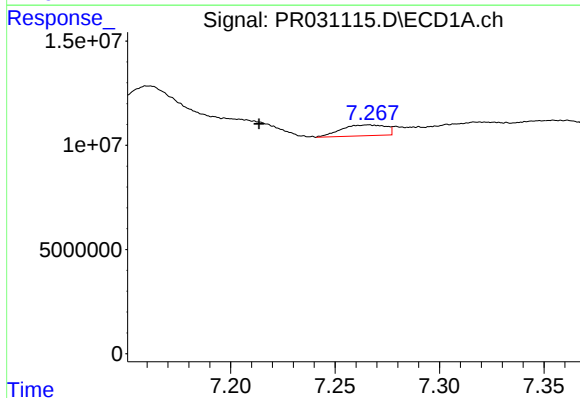
R.T.: 8.510 min
Delta R.T.: 0.022 min
Response: 11446232
Conc: 3.27 ng/ml

Instrument :
ECD_R
ClientSampleId :



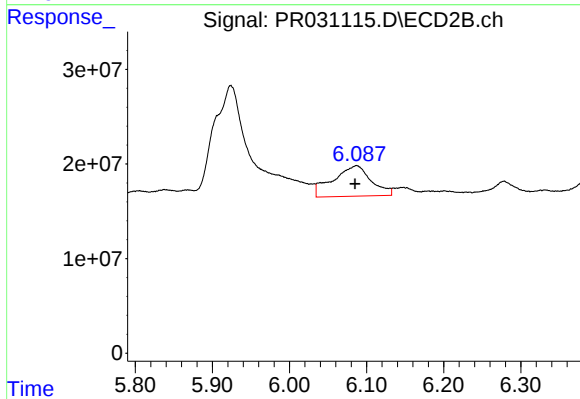
#35 AR-1260-5

R.T.: 7.236 min
Delta R.T.: -0.002 min
Response: 5125597
Conc: 1.38 ng/ml



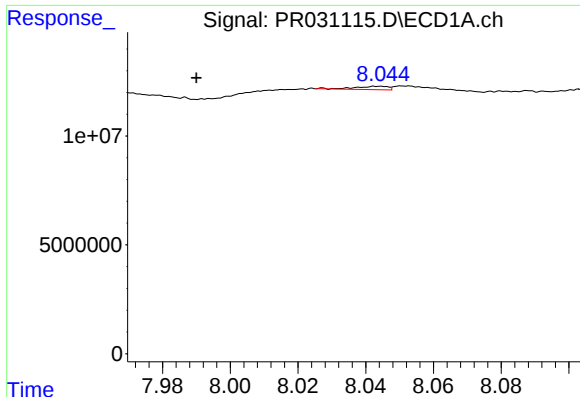
#36 AR-1262-1

R.T.: 7.266 min
Delta R.T.: 0.052 min
Response: 7688439
Conc: 8.48 ng/ml



#36 AR-1262-1

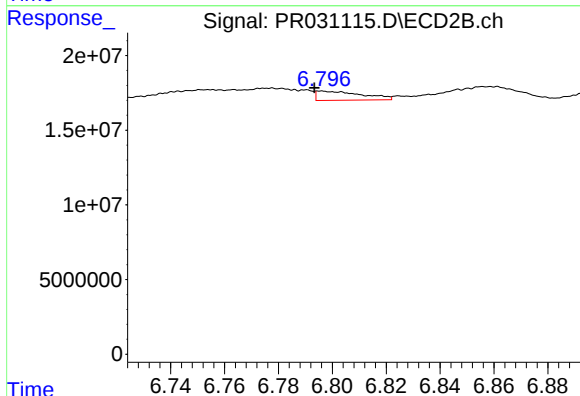
R.T.: 6.087 min
Delta R.T.: 0.002 min
Response: 110975133
Conc: 57.74 ng/ml



#37 AR-1262-2

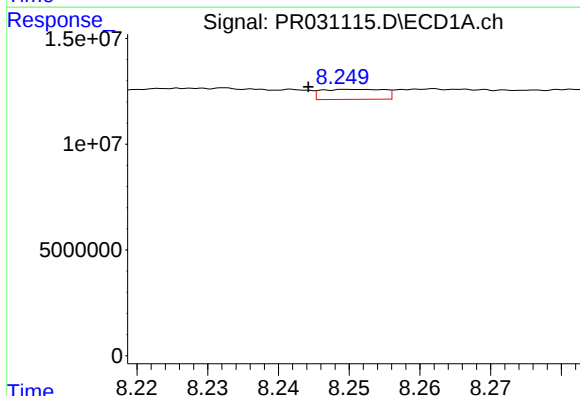
R.T.: 8.044 min
Delta R.T.: 0.054 min
Response: 1074503
Conc: 1.17 ng/ml

Instrument :
ECD_R
ClientSampleId :



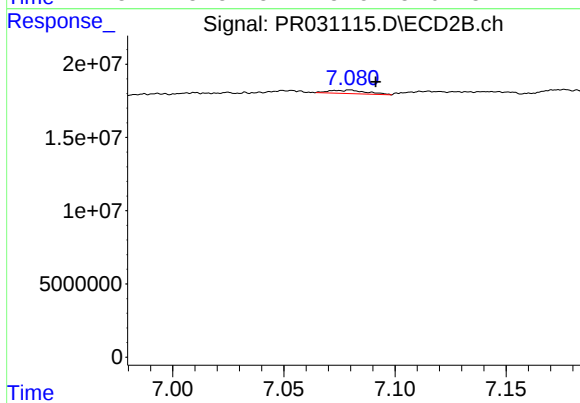
#37 AR-1262-2

R.T.: 6.796 min
Delta R.T.: 0.003 min
Response: 7209738
Conc: 4.12 ng/ml



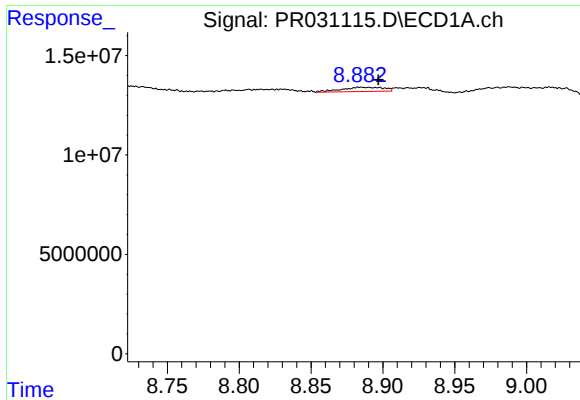
#38 AR-1262-3

R.T.: 8.251 min
Delta R.T.: 0.007 min
Response: 2915600
Conc: 3.67 ng/ml



#38 AR-1262-3

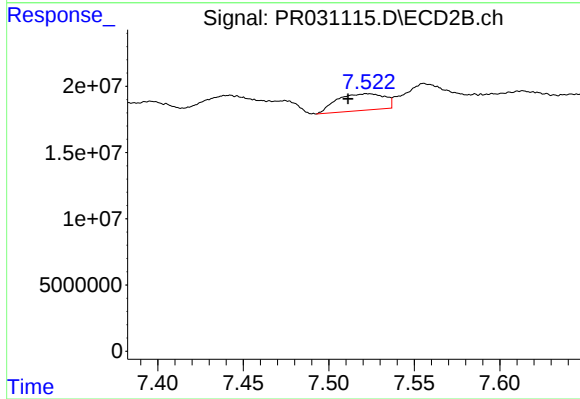
R.T.: 7.080 min
Delta R.T.: -0.012 min
Response: 2748132
Conc: 2.06 ng/ml



#39 AR-1262-4

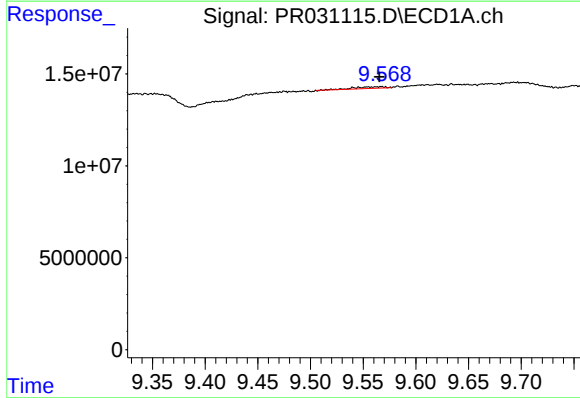
R.T.: 8.885 min
Delta R.T.: -0.012 min
Response: 4318049
Conc: 1.79 ng/ml

Instrument :
ECD_R
ClientSampleId :



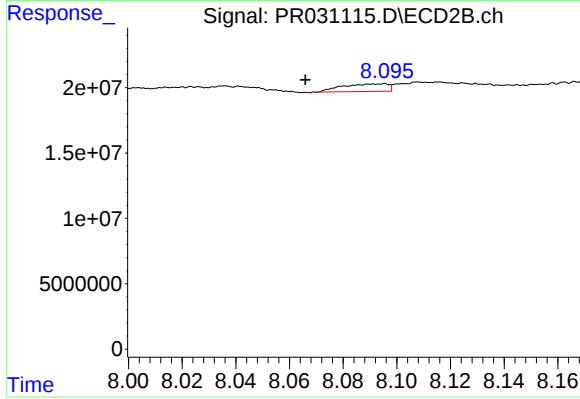
#39 AR-1262-4

R.T.: 7.522 min
Delta R.T.: 0.011 min
Response: 24218713
Conc: 11.94 ng/ml



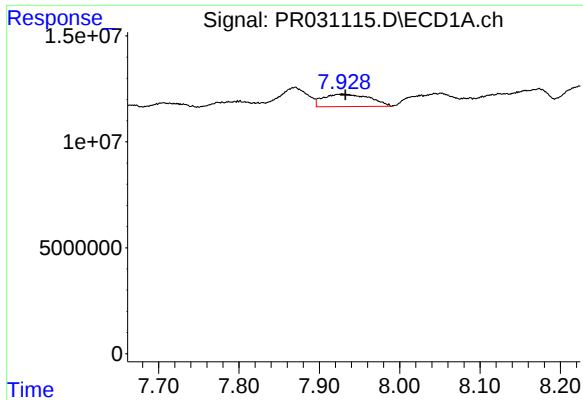
#40 AR-1262-5

R.T.: 9.567 min
Delta R.T.: 0.002 min
Response: 1665960
Conc: 0.95 ng/ml



#40 AR-1262-5

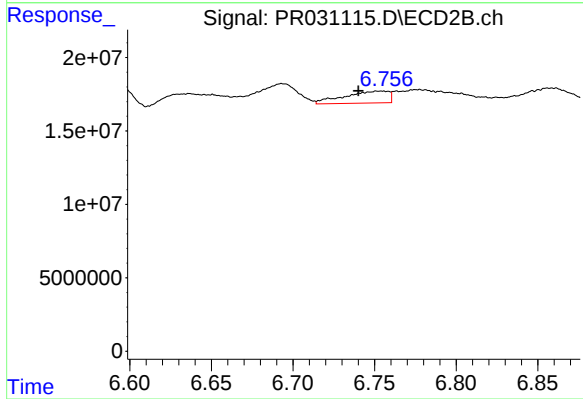
R.T.: 8.096 min
Delta R.T.: 0.030 min
Response: 6890715
Conc: 4.98 ng/ml



#41 AR-1268-1

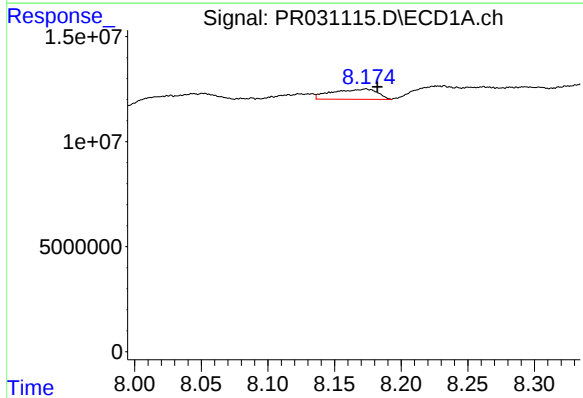
R.T.: 7.928 min
Delta R.T.: -0.005 min
Response: 23526152
Conc: 25.95 ng/ml

Instrument :
ECD_R
ClientSampleId :



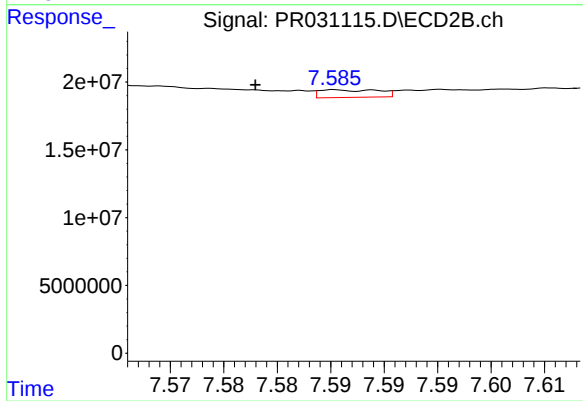
#41 AR-1268-1

R.T.: 6.751 min
Delta R.T.: 0.011 min
Response: 15328465
Conc: 9.33 ng/ml



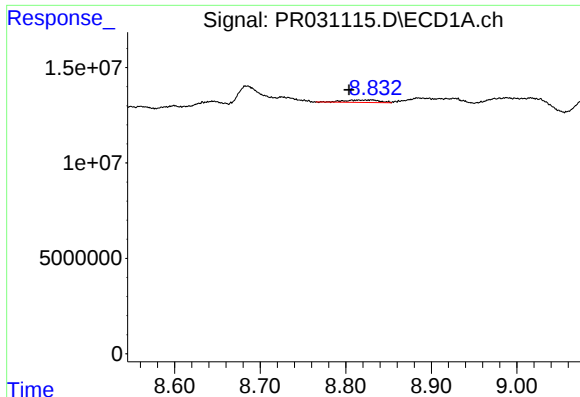
#42 AR-1268-2

R.T.: 8.173 min
Delta R.T.: -0.009 min
Response: 11511399
Conc: 9.00 ng/ml



#42 AR-1268-2

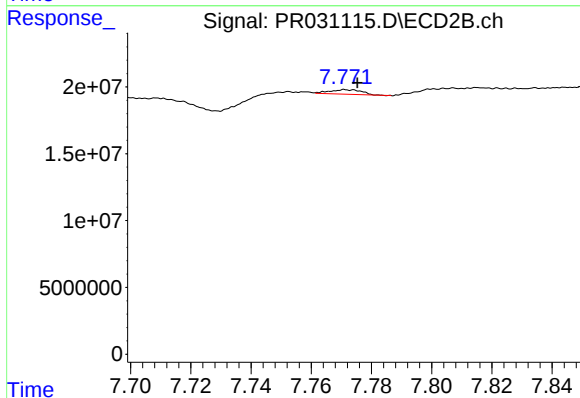
R.T.: 7.585 min
Delta R.T.: 0.008 min
Response: 2170899
Conc: 0.50 ng/ml



#43 AR-1268-3

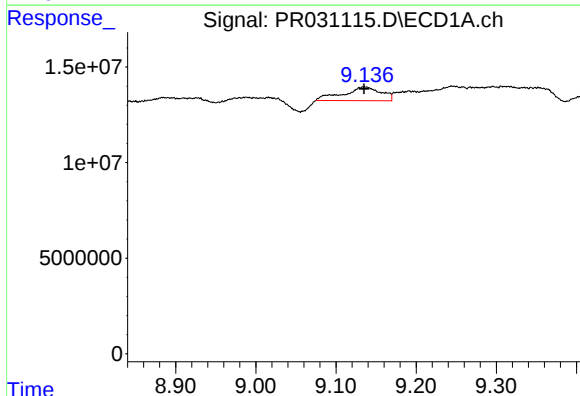
R.T.: 8.823 min
Delta R.T.: 0.020 min
Response: 3521606
Conc: 0.61 ng/ml

Instrument :
ECD_R
ClientSampleId :



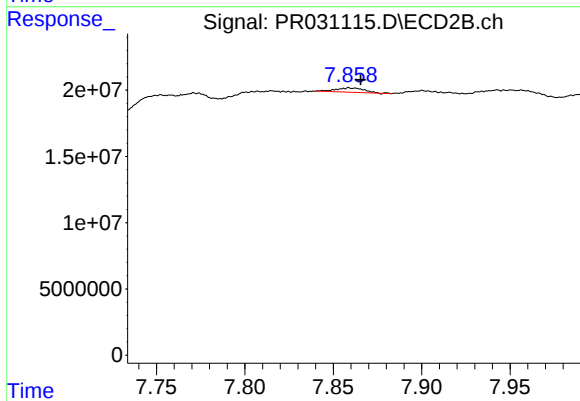
#43 AR-1268-3

R.T.: 7.771 min
Delta R.T.: -0.004 min
Response: 2539597
Conc: 0.72 ng/ml



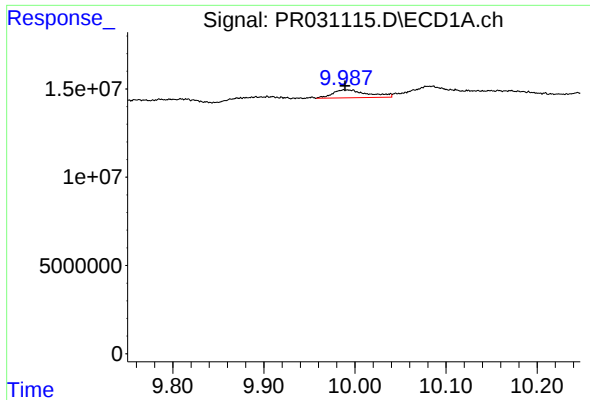
#44 AR-1268-4

R.T.: 9.135 min
Delta R.T.: 0.000 min
Response: 23618659
Conc: 5.07 ng/ml



#44 AR-1268-4

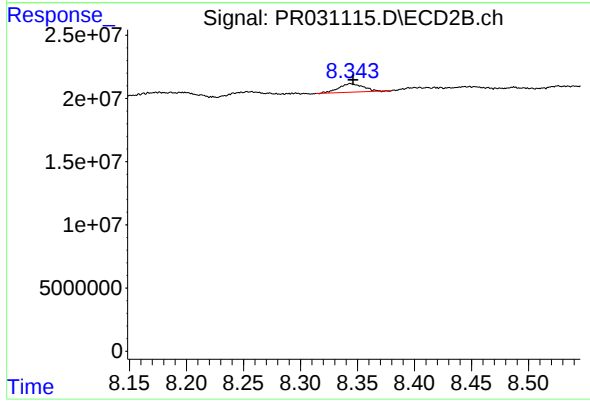
R.T.: 7.859 min
Delta R.T.: -0.007 min
Response: 3625523
Conc: 3.60 ng/ml



#45 AR-1268-5

R.T.: 9.988 min
Delta R.T.: 0.000 min
Response: 12169001
Conc: 0.88 ng/ml

Instrument :
ECD_R
ClientSampleId :



#45 AR-1268-5

R.T.: 8.344 min
Delta R.T.: -0.002 min
Response: 9889927
Conc: 1.14 ng/ml