

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032825\
 Data File : PP070984.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2025 19:42
 Operator : YP\AJ
 Sample : AR1254CCC500
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :
 AR1254CCC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 29 01:00:37 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Mar 28 03:13:46 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	4.520	3.818	73065889	53810156	49.991	51.908
2)	SA Decachlor...	10.245	8.861	56930967	41212403	54.085	52.287
Target Compounds							
3)	L1 AR-1016-1	5.672	4.904	874049	764066	17.188	19.060
4)	L1 AR-1016-2	5.672	4.924	874049	602869	11.198	10.419
5)	L1 AR-1016-3	5.761	5.101	646775	378820	13.710	12.250
6)	L1 AR-1016-4	5.853	5.142	616895	14309438	16.784	587.514 #
7)	L1 AR-1016-5	6.148	5.356	9545080	9565184	281.465	295.942
8)	L2 AR-1221-1	0.000	4.032	0	50758	N.D.	3.330 #
9)	L2 AR-1221-2	4.824	4.120	1172009	980583	90.482	85.743
10)	L2 AR-1221-3	4.880	4.191	330122	247243	7.913	7.253
11)	L3 AR-1232-1	4.880	4.191	330122	247243	9.917	8.834
12)	L3 AR-1232-2	5.408	4.924	393586	602869	24.738	21.484
13)	L3 AR-1232-3	5.698	5.101	1022835	378820	29.846	25.442
14)	L3 AR-1232-4	5.853	5.183	616895	4640652	39.274	362.427 #
15)	L3 AR-1232-5	5.945	5.356	16101298	9565184	1513.230	674.803 #
16)	L4 AR-1242-1	5.672	4.904	874049	764066	19.875	22.344
17)	L4 AR-1242-2	5.698	4.924	1022835	602869	15.903	12.239
18)	L4 AR-1242-3	5.761	5.101	646775	378820	15.760	14.218
19)	L4 AR-1242-4	5.853	5.183	616895	4640652	20.211	175.927 #
20)	L4 AR-1242-5	6.590	5.710	10636914	32044662	291.339	1035.091 #
21)	L5 AR-1248-1	5.672	4.904	874049	764066	24.087	28.215
22)	L5 AR-1248-2	5.945	5.142	16101298	14309438	358.296	389.664
23)	L5 AR-1248-3	6.148	5.183	9545080	4640652	188.498	120.039 #
24)	L5 AR-1248-4	6.545	5.356	14848533	9565184	231.475	211.896
25)	L5 AR-1248-5	6.590	5.750	10636914	4432055	174.816	103.847 #
26)	L6 AR-1254-1	6.524	5.710	31609405	32044662	490.904	485.394
27)	L6 AR-1254-2	6.739	5.858	50329207	27223319	497.862	476.781
28)	L6 AR-1254-3	7.103	6.262	50898472	42032253	510.374	484.012
29)	L6 AR-1254-4	7.386	6.491	45057400	27945075	520.313	498.125
30)	L6 AR-1254-5	7.802	6.909	40906568	35132774	509.099	486.937
31)	L7 AR-1260-1	7.268	6.393	21972839	21480922	327.207	419.498 #
32)	L7 AR-1260-2	7.521	6.581	28169440	18425839	293.015	288.834
33)	L7 AR-1260-3	7.865	6.733	4888519	16692292	61.169	306.355 #
34)	L7 AR-1260-4	8.089	7.206	16520729	1914507	209.822	40.030 #
35)	L7 AR-1260-5	8.425	7.446	6294022	4642556	39.613	37.287
36)	L8 AR-1262-1	8.089	6.979	16520729	2856404	155.416	33.383 #
37)	L8 AR-1262-2	8.425	7.206	6294022	1914507	31.727	27.964
38)	L8 AR-1262-3	8.753	7.728	4817695	248428	36.569	4.091 #
39)	L8 AR-1262-4	8.801	7.790	1125593	4220054	11.772	42.452 #
40)	L8 AR-1262-5	0.000	8.300	0	397852	N.D.	8.488 #
41)	L9 AR-1268-1	8.753	7.728	4817695	248428	20.457	1.449 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP032825\
Data File : PP070984.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2025 19:42
Operator : YP\AJ
Sample : AR1254CCC500
Misc :
ALS Vial : 6 Sample Multiplier: 1

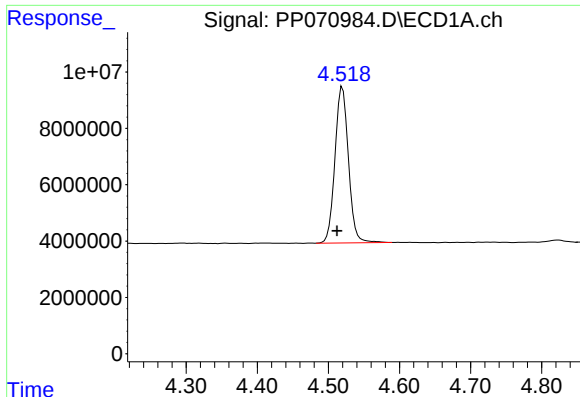
Instrument :
ECD_P
ClientSampleId :
AR1254CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 29 01:00:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ 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	8.801	7.790	1125593	4220054	5.763	29.453 #
43) L9	AR-1268-3	0.000	8.006	0	254069	N.D.	2.063 #
44) L9	AR-1268-4	0.000	8.300	0	397852	N.D.	7.533 #
45) L9	AR-1268-5	0.000	8.599	0	471109	N.D.	1.302 #

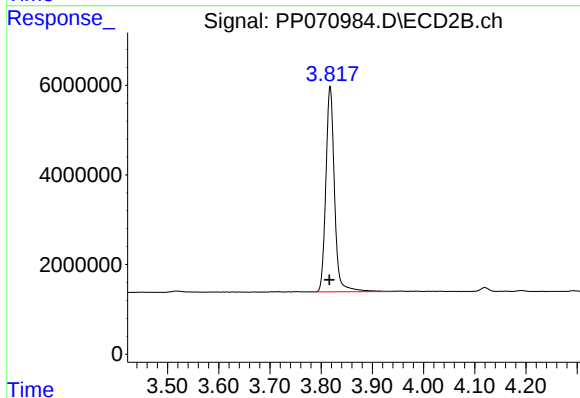
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



#1 Tetrachloro-m-xylene

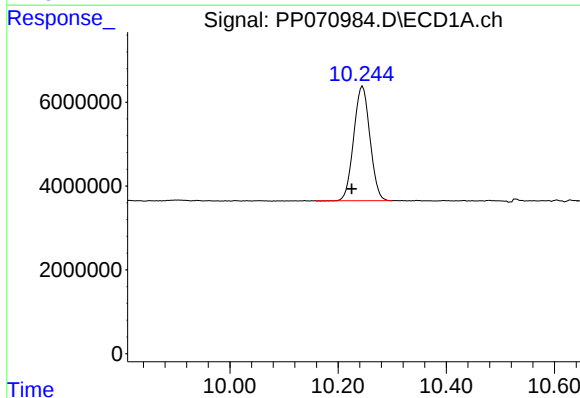
R.T.: 4.520 min
Delta R.T.: 0.008 min
Response: 73065889
Conc: 49.99 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



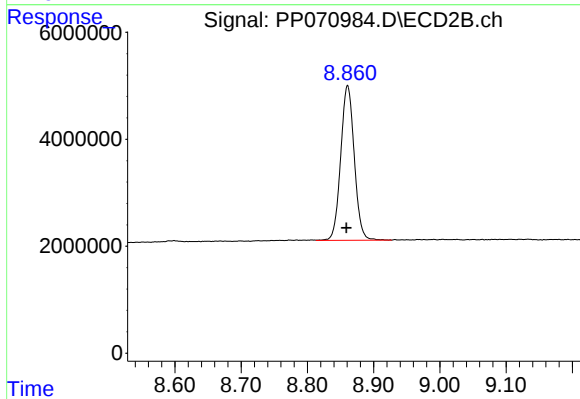
#1 Tetrachloro-m-xylene

R.T.: 3.818 min
Delta R.T.: 0.002 min
Response: 53810156
Conc: 51.91 ng/ml



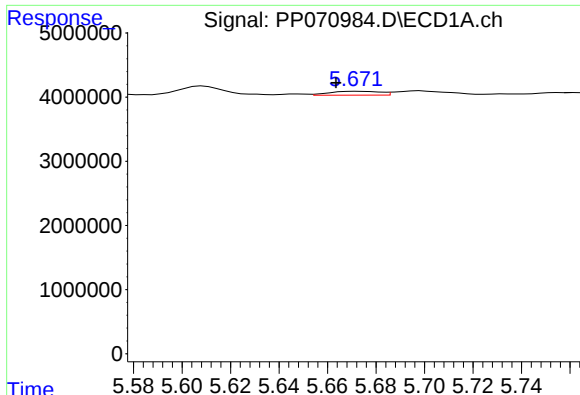
#2 Decachlorobiphenyl

R.T.: 10.245 min
Delta R.T.: 0.020 min
Response: 56930967
Conc: 54.09 ng/ml



#2 Decachlorobiphenyl

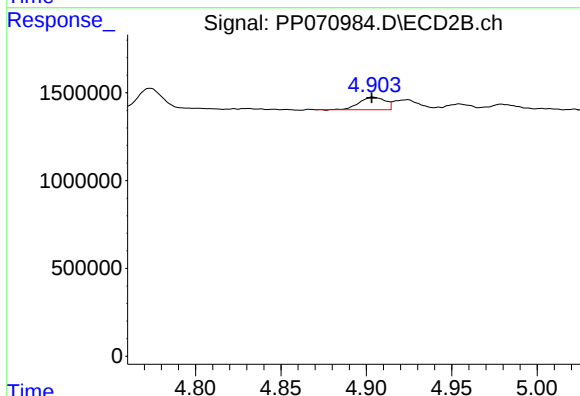
R.T.: 8.861 min
Delta R.T.: 0.002 min
Response: 41212403
Conc: 52.29 ng/ml



#3 AR-1016-1

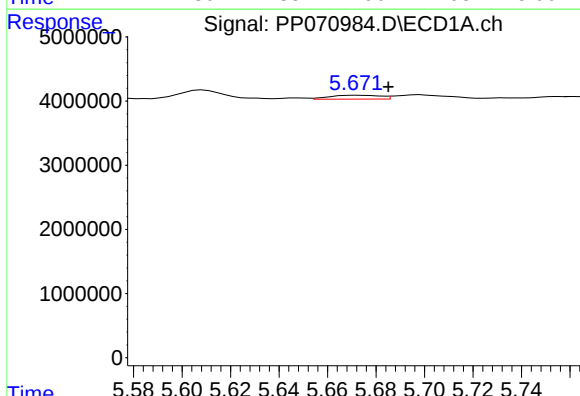
R.T.: 5.672 min
Delta R.T.: 0.009 min
Response: 874049
Conc: 17.19 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



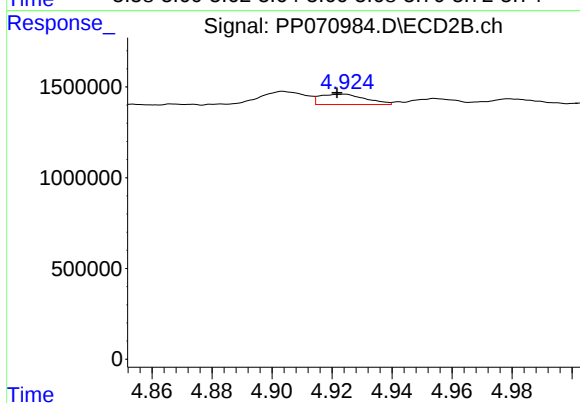
#3 AR-1016-1

R.T.: 4.904 min
Delta R.T.: 0.000 min
Response: 764066
Conc: 19.06 ng/ml



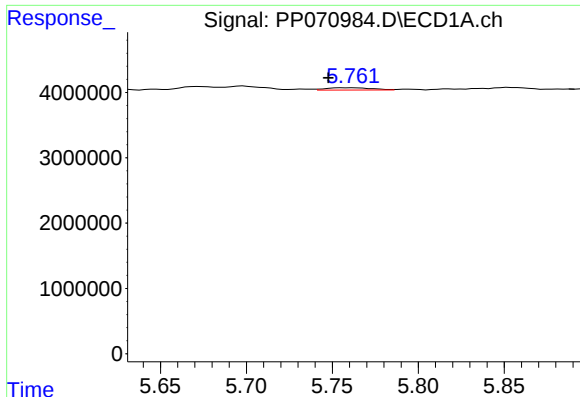
#4 AR-1016-2

R.T.: 5.672 min
Delta R.T.: -0.013 min
Response: 874049
Conc: 11.20 ng/ml



#4 AR-1016-2

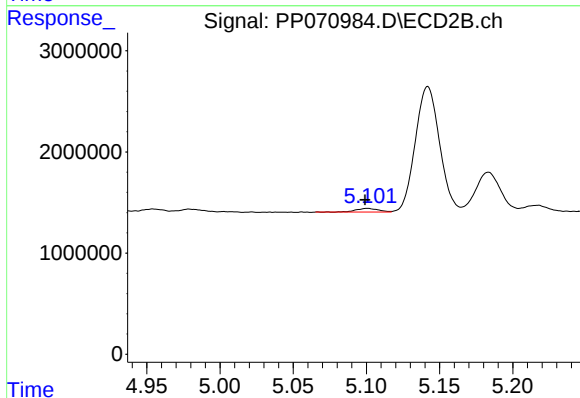
R.T.: 4.924 min
Delta R.T.: 0.002 min
Response: 602869
Conc: 10.42 ng/ml



#5 AR-1016-3

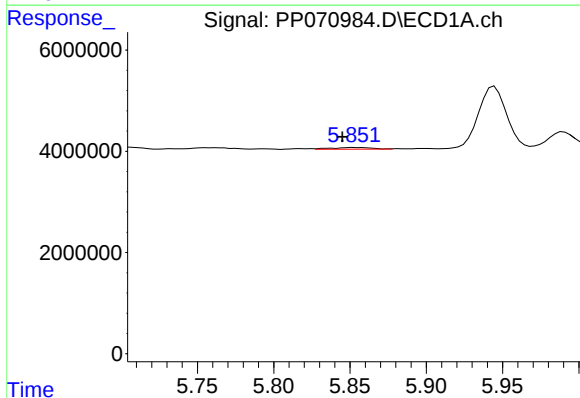
R.T.: 5.761 min
Delta R.T.: 0.014 min
Response: 646775
Conc: 13.71 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



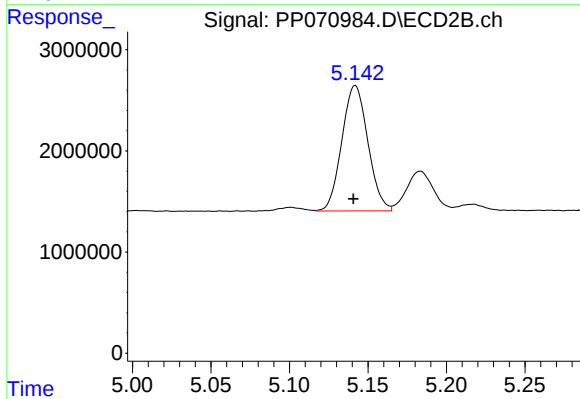
#5 AR-1016-3

R.T.: 5.101 min
Delta R.T.: 0.002 min
Response: 378820
Conc: 12.25 ng/ml



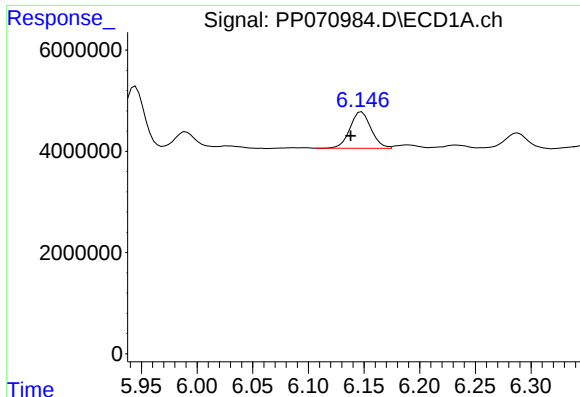
#6 AR-1016-4

R.T.: 5.853 min
Delta R.T.: 0.008 min
Response: 616895
Conc: 16.78 ng/ml



#6 AR-1016-4

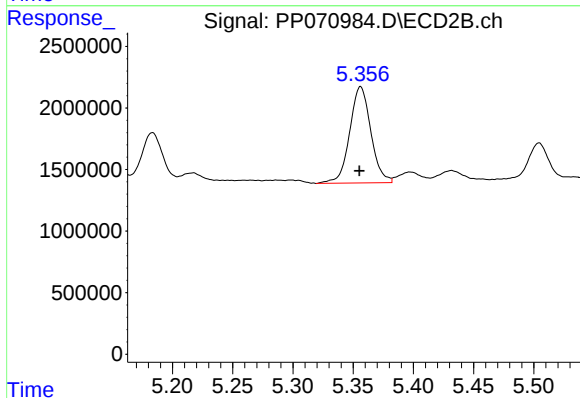
R.T.: 5.142 min
Delta R.T.: 0.001 min
Response: 14309438
Conc: 587.51 ng/ml



#7 AR-1016-5

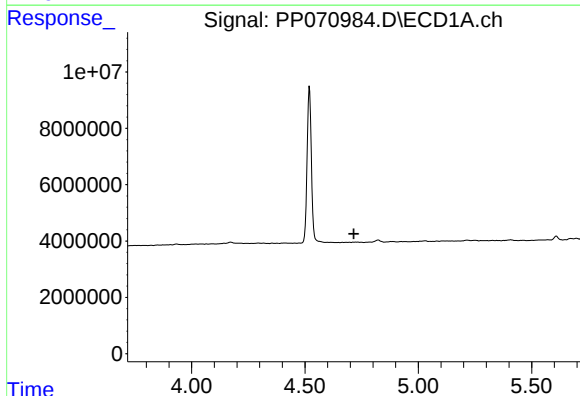
R.T.: 6.148 min
Delta R.T.: 0.010 min
Response: 9545080
Conc: 281.47 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



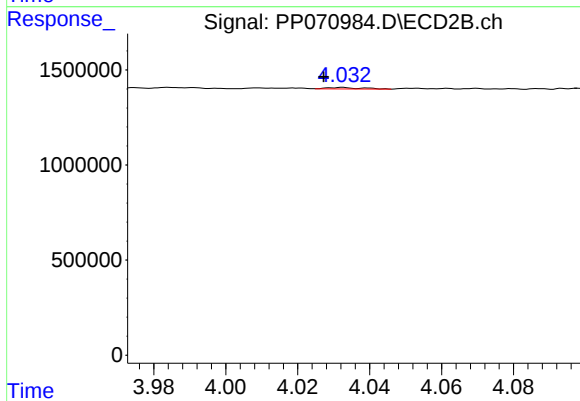
#7 AR-1016-5

R.T.: 5.356 min
Delta R.T.: 0.000 min
Response: 9565184
Conc: 295.94 ng/ml



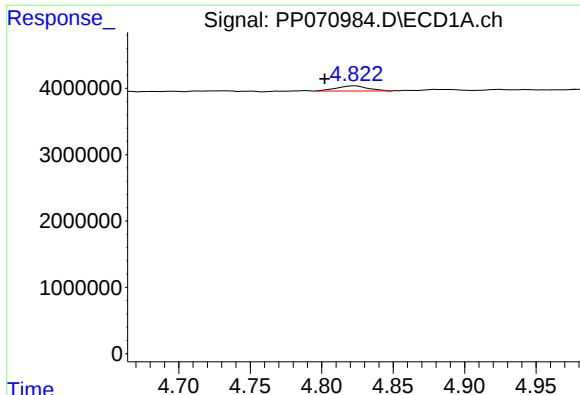
#8 AR-1221-1

R.T.: 0.000 min
Exp R.T. : 4.716 min
Response: 0
Conc: N.D.



#8 AR-1221-1

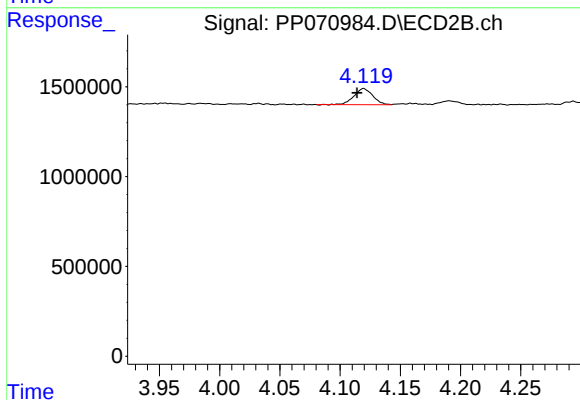
R.T.: 4.032 min
Delta R.T.: 0.005 min
Response: 50758
Conc: 3.33 ng/ml



#9 AR-1221-2

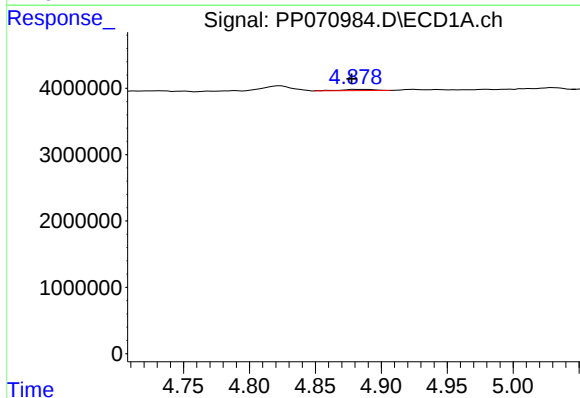
R.T.: 4.824 min
Delta R.T.: 0.021 min
Response: 1172009
Conc: 90.48 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



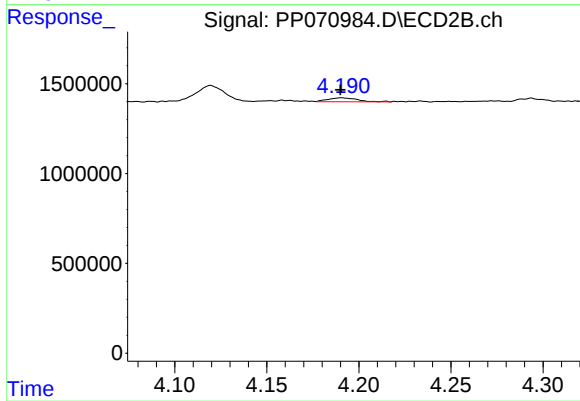
#9 AR-1221-2

R.T.: 4.120 min
Delta R.T.: 0.005 min
Response: 980583
Conc: 85.74 ng/ml



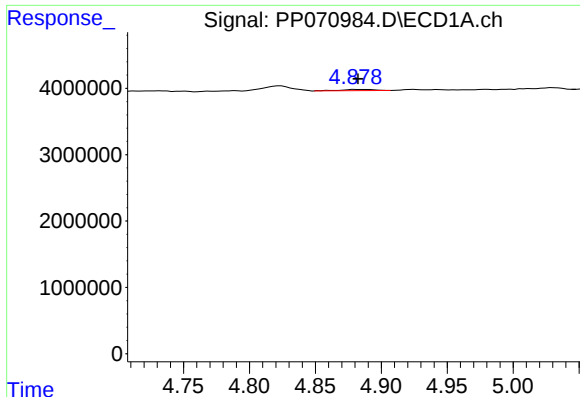
#10 AR-1221-3

R.T.: 4.880 min
Delta R.T.: 0.002 min
Response: 330122
Conc: 7.91 ng/ml



#10 AR-1221-3

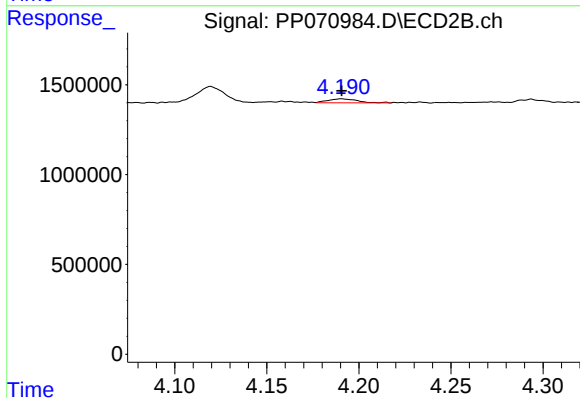
R.T.: 4.191 min
Delta R.T.: 0.000 min
Response: 247243
Conc: 7.25 ng/ml



#11 AR-1232-1

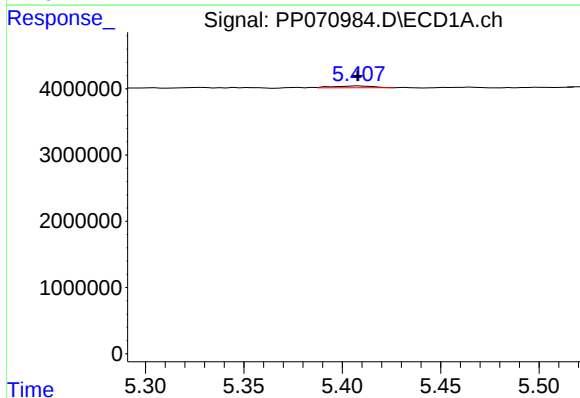
R.T.: 4.880 min
Delta R.T.: -0.003 min
Response: 330122
Conc: 9.92 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



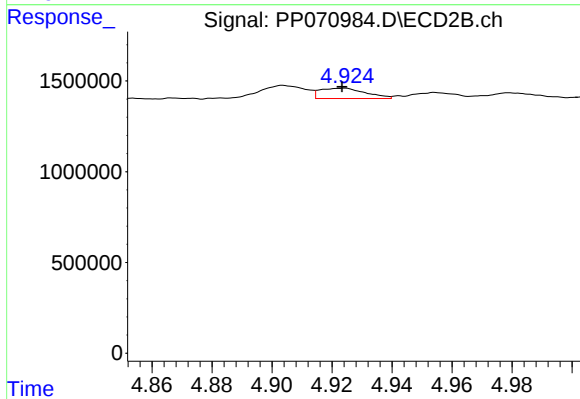
#11 AR-1232-1

R.T.: 4.191 min
Delta R.T.: 0.000 min
Response: 247243
Conc: 8.83 ng/ml



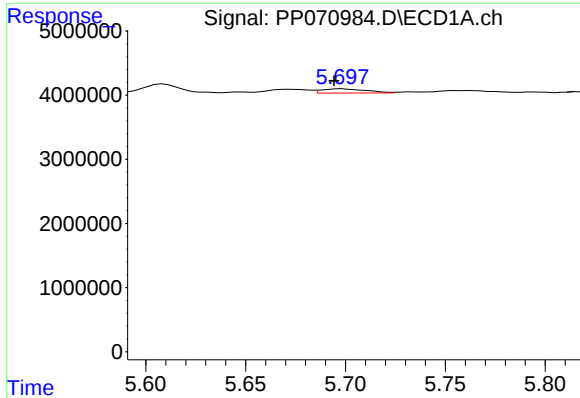
#12 AR-1232-2

R.T.: 5.408 min
Delta R.T.: 0.000 min
Response: 393586
Conc: 24.74 ng/ml



#12 AR-1232-2

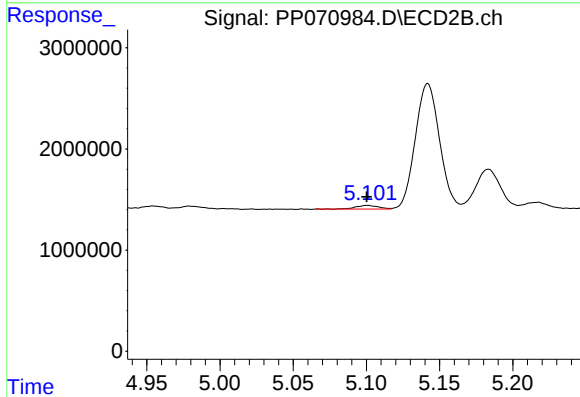
R.T.: 4.924 min
Delta R.T.: 0.000 min
Response: 602869
Conc: 21.48 ng/ml



#13 AR-1232-3

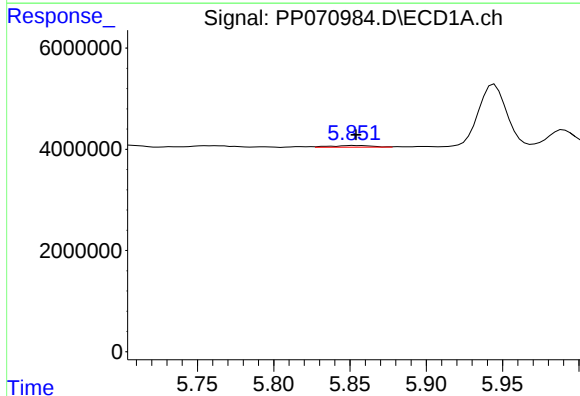
R.T.: 5.698 min
Delta R.T.: 0.004 min
Response: 1022835
Conc: 29.85 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



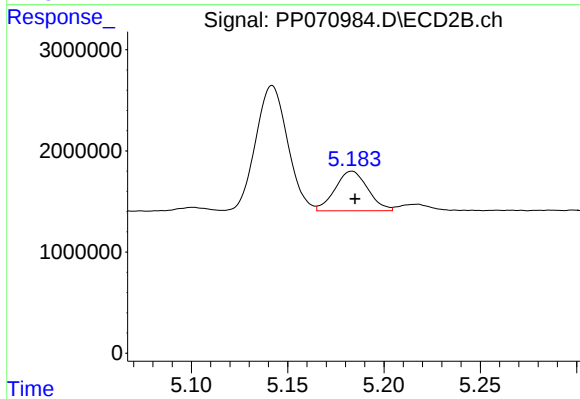
#13 AR-1232-3

R.T.: 5.101 min
Delta R.T.: 0.000 min
Response: 378820
Conc: 25.44 ng/ml



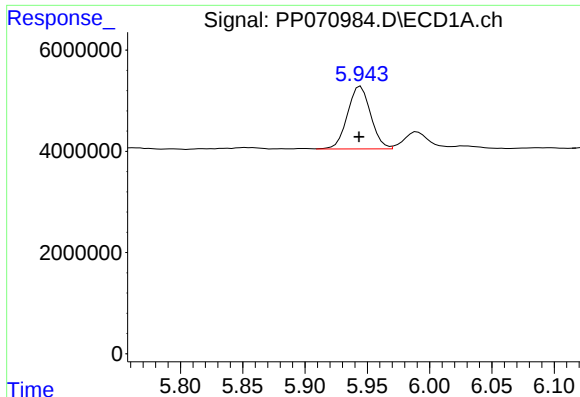
#14 AR-1232-4

R.T.: 5.853 min
Delta R.T.: -0.001 min
Response: 616895
Conc: 39.27 ng/ml



#14 AR-1232-4

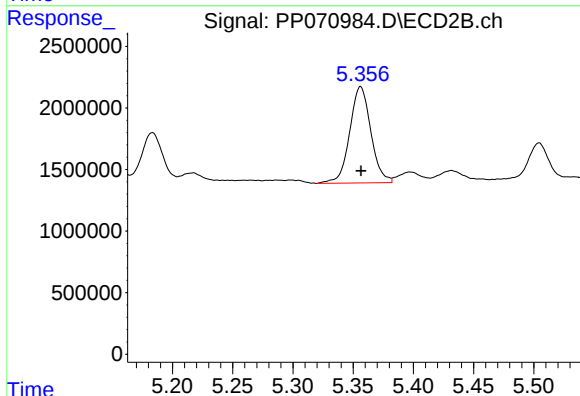
R.T.: 5.183 min
Delta R.T.: -0.002 min
Response: 4640652
Conc: 362.43 ng/ml



#15 AR-1232-5

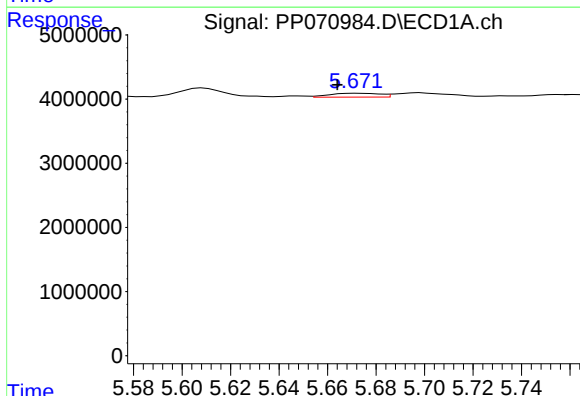
R.T.: 5.945 min
Delta R.T.: 0.001 min
Response: 16101298
Conc: 1513.23 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



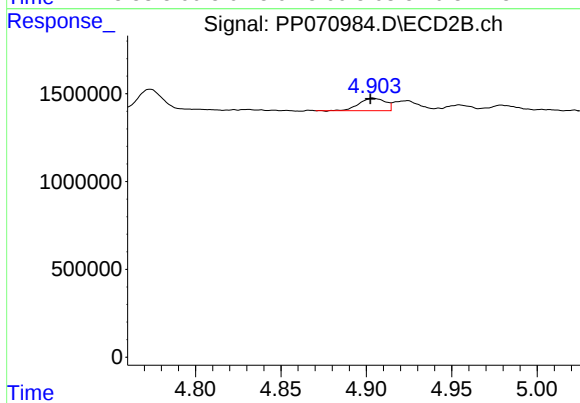
#15 AR-1232-5

R.T.: 5.356 min
Delta R.T.: 0.000 min
Response: 9565184
Conc: 674.80 ng/ml



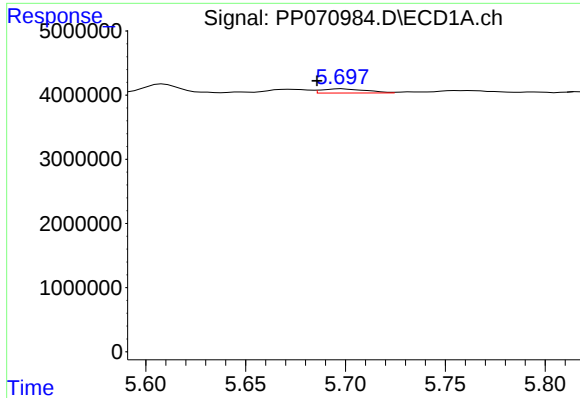
#16 AR-1242-1

R.T.: 5.672 min
Delta R.T.: 0.008 min
Response: 874049
Conc: 19.88 ng/ml



#16 AR-1242-1

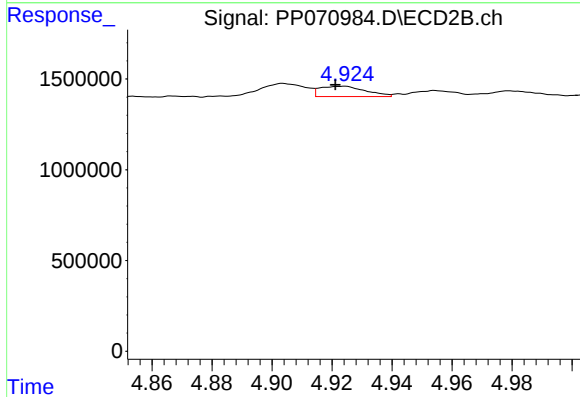
R.T.: 4.904 min
Delta R.T.: 0.002 min
Response: 764066
Conc: 22.34 ng/ml



#17 AR-1242-2

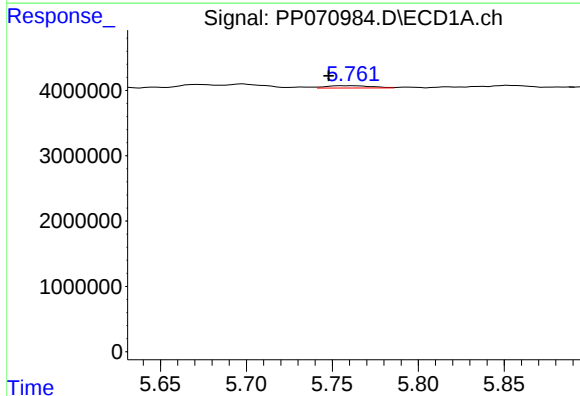
R.T.: 5.698 min
Delta R.T.: 0.013 min
Response: 1022835
Conc: 15.90 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



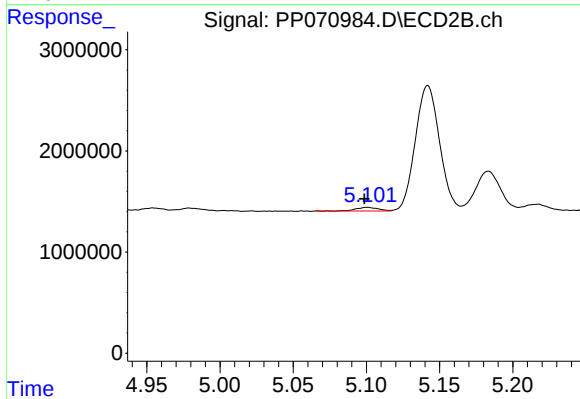
#17 AR-1242-2

R.T.: 4.924 min
Delta R.T.: 0.003 min
Response: 602869
Conc: 12.24 ng/ml



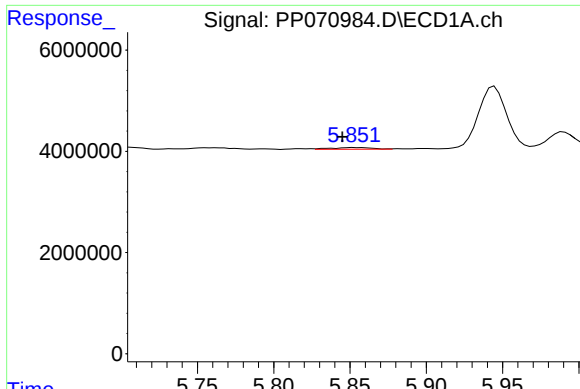
#18 AR-1242-3

R.T.: 5.761 min
Delta R.T.: 0.013 min
Response: 646775
Conc: 15.76 ng/ml



#18 AR-1242-3

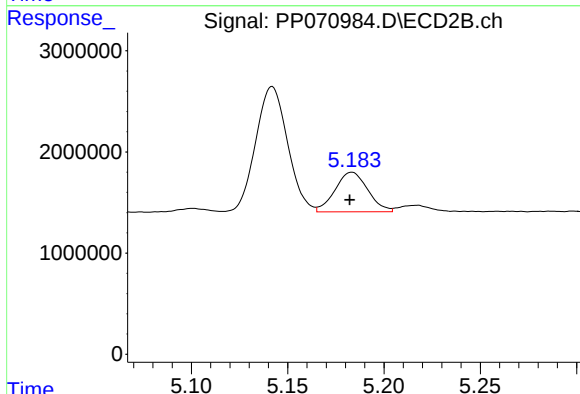
R.T.: 5.101 min
Delta R.T.: 0.002 min
Response: 378820
Conc: 14.22 ng/ml



#19 AR-1242-4

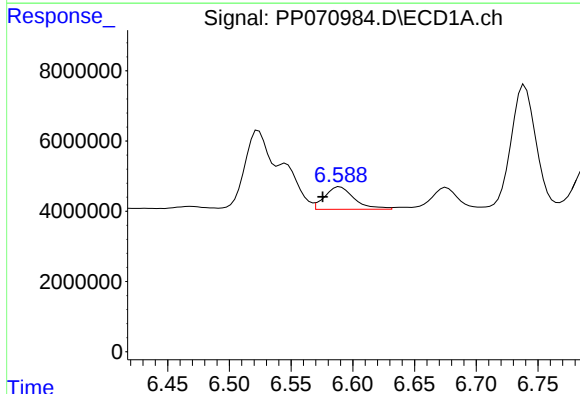
R.T.: 5.853 min
Delta R.T.: 0.008 min
Response: 616895
Conc: 20.21 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



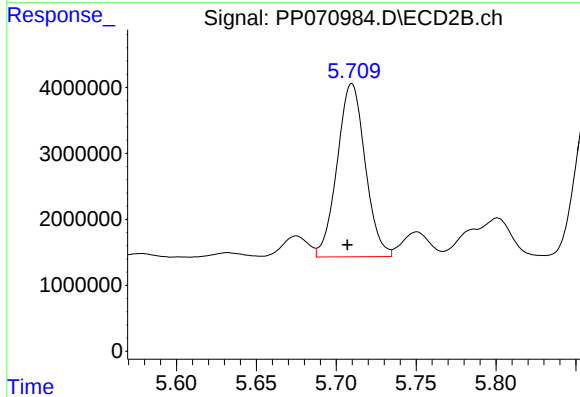
#19 AR-1242-4

R.T.: 5.183 min
Delta R.T.: 0.001 min
Response: 4640652
Conc: 175.93 ng/ml



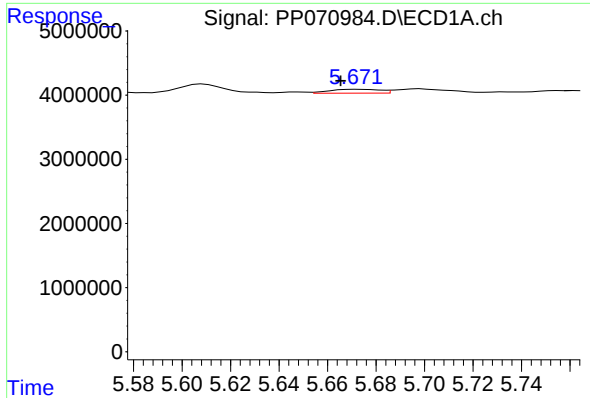
#20 AR-1242-5

R.T.: 6.590 min
Delta R.T.: 0.014 min
Response: 10636914
Conc: 291.34 ng/ml



#20 AR-1242-5

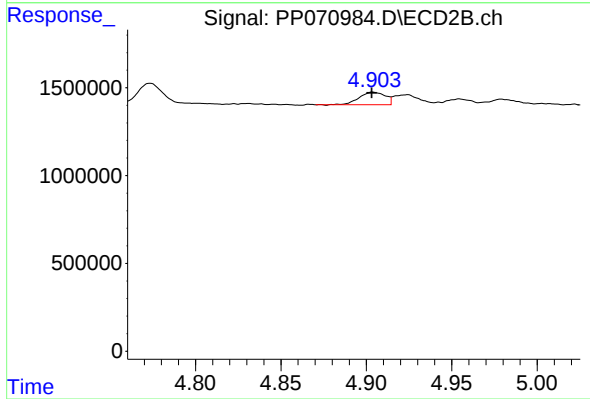
R.T.: 5.710 min
Delta R.T.: 0.003 min
Response: 32044662
Conc: 1035.09 ng/ml



#21 AR-1248-1

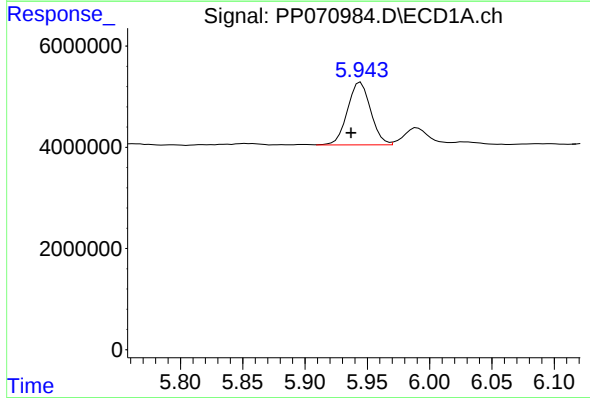
R.T.: 5.672 min
Delta R.T.: 0.007 min
Response: 874049
Conc: 24.09 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



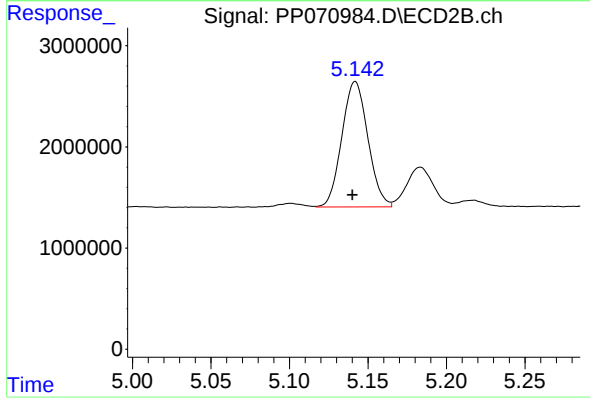
#21 AR-1248-1

R.T.: 4.904 min
Delta R.T.: 0.000 min
Response: 764066
Conc: 28.22 ng/ml



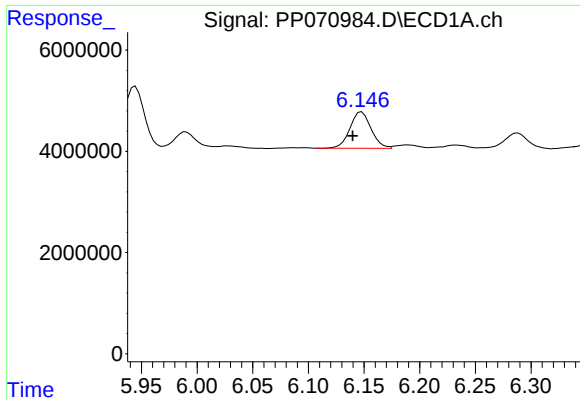
#22 AR-1248-2

R.T.: 5.945 min
Delta R.T.: 0.008 min
Response: 16101298
Conc: 358.30 ng/ml



#22 AR-1248-2

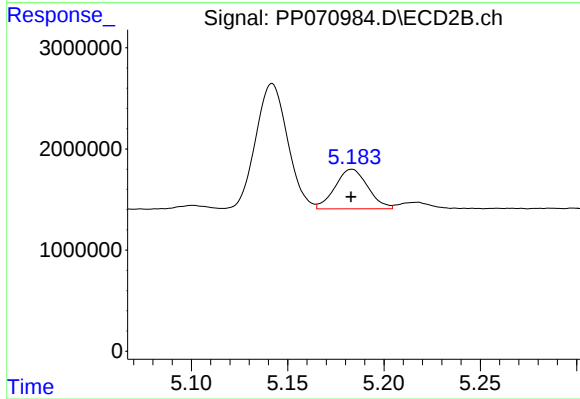
R.T.: 5.142 min
Delta R.T.: 0.002 min
Response: 14309438
Conc: 389.66 ng/ml



#23 AR-1248-3

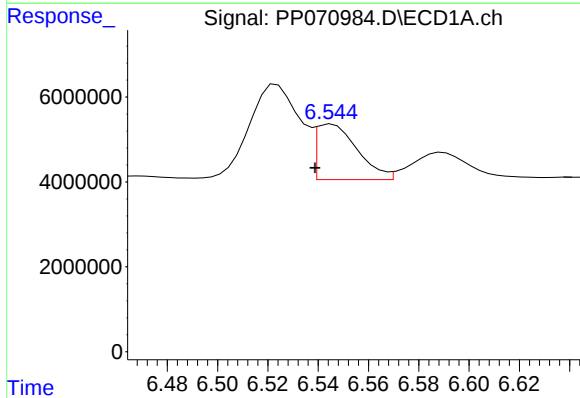
R.T.: 6.148 min
Delta R.T.: 0.008 min
Response: 9545080
Conc: 188.50 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



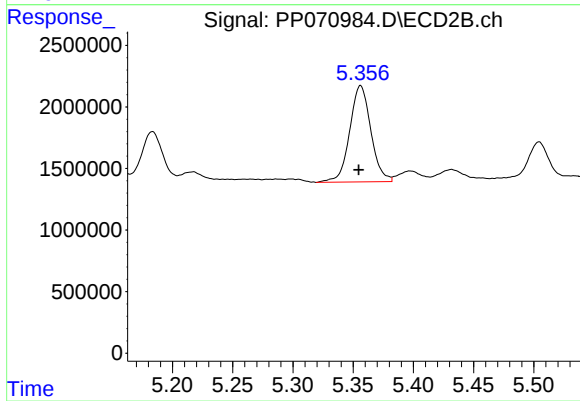
#23 AR-1248-3

R.T.: 5.183 min
Delta R.T.: 0.000 min
Response: 4640652
Conc: 120.04 ng/ml



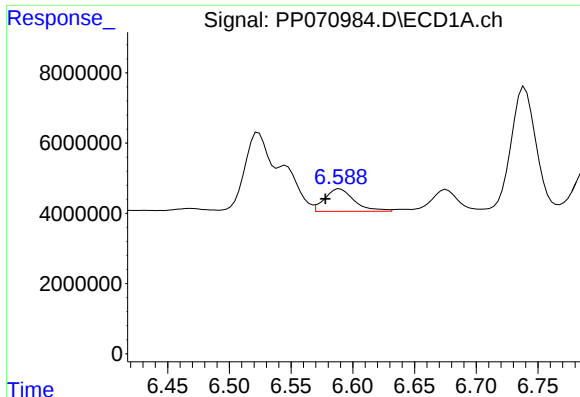
#24 AR-1248-4

R.T.: 6.545 min
Delta R.T.: 0.007 min
Response: 14848533
Conc: 231.47 ng/ml



#24 AR-1248-4

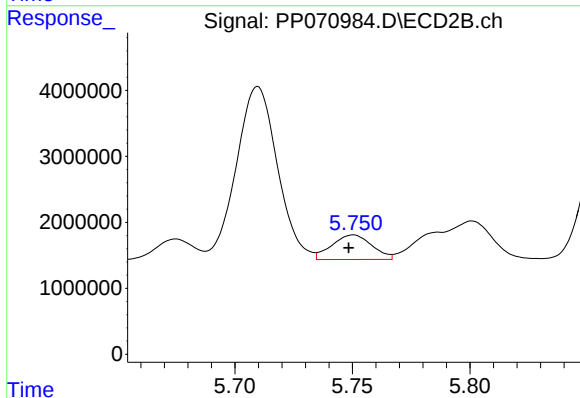
R.T.: 5.356 min
Delta R.T.: 0.002 min
Response: 9565184
Conc: 211.90 ng/ml



#25 AR-1248-5

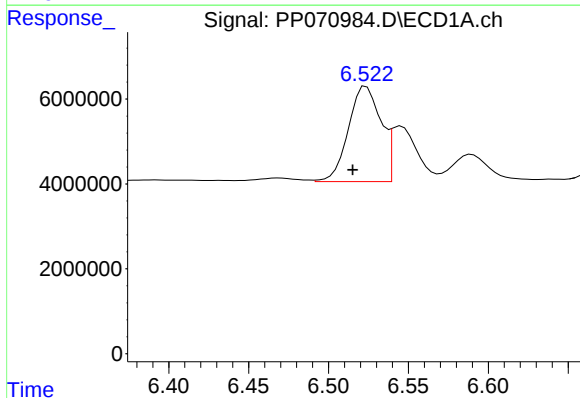
R.T.: 6.590 min
Delta R.T.: 0.012 min
Response: 10636914
Conc: 174.82 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



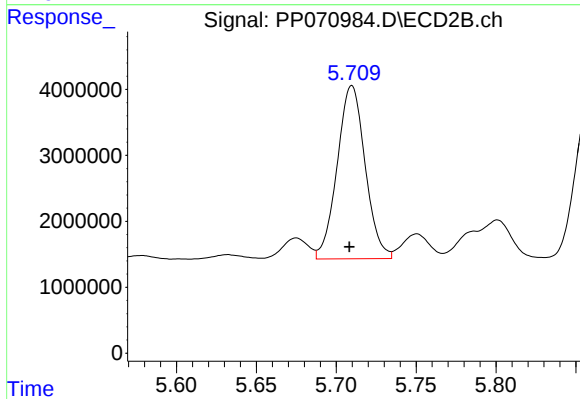
#25 AR-1248-5

R.T.: 5.750 min
Delta R.T.: 0.002 min
Response: 4432055
Conc: 103.85 ng/ml



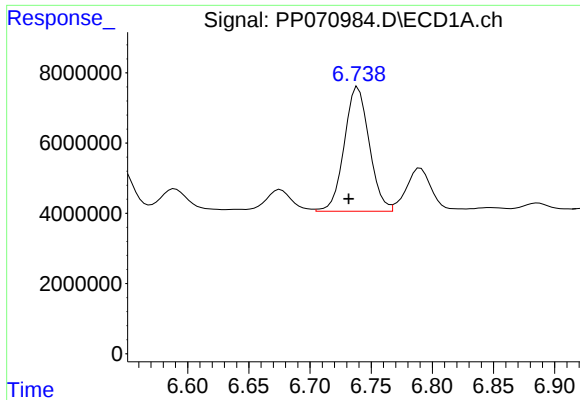
#26 AR-1254-1

R.T.: 6.524 min
Delta R.T.: 0.009 min
Response: 31609405
Conc: 490.90 ng/ml



#26 AR-1254-1

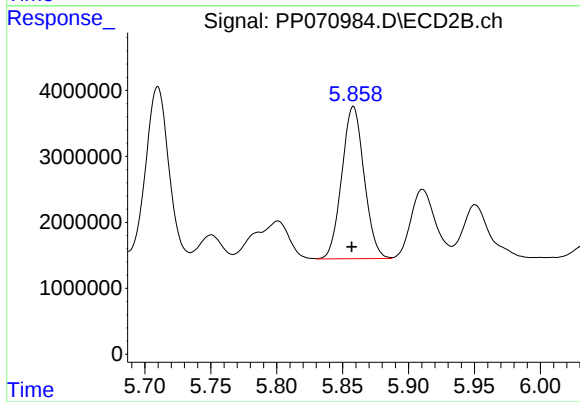
R.T.: 5.710 min
Delta R.T.: 0.002 min
Response: 32044662
Conc: 485.39 ng/ml



#27 AR-1254-2

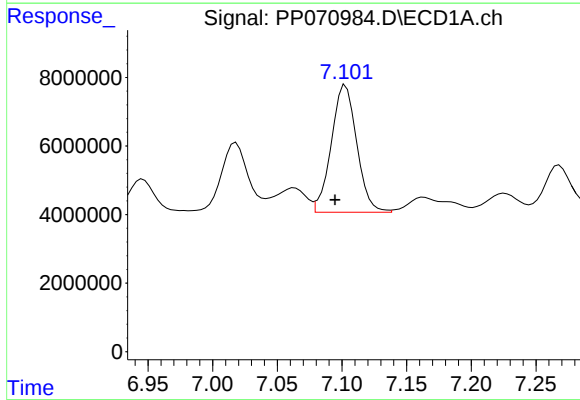
R.T.: 6.739 min
Delta R.T.: 0.008 min
Response: 50329207
Conc: 497.86 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



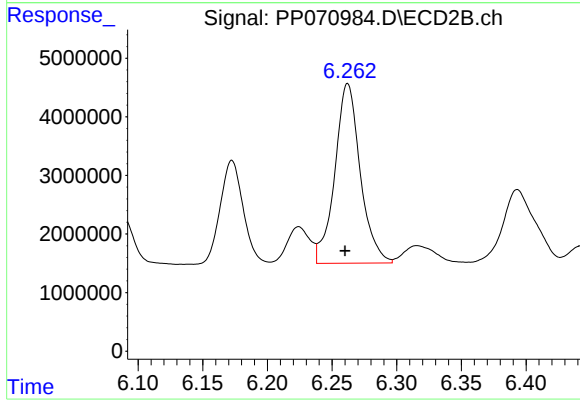
#27 AR-1254-2

R.T.: 5.858 min
Delta R.T.: 0.001 min
Response: 27223319
Conc: 476.78 ng/ml



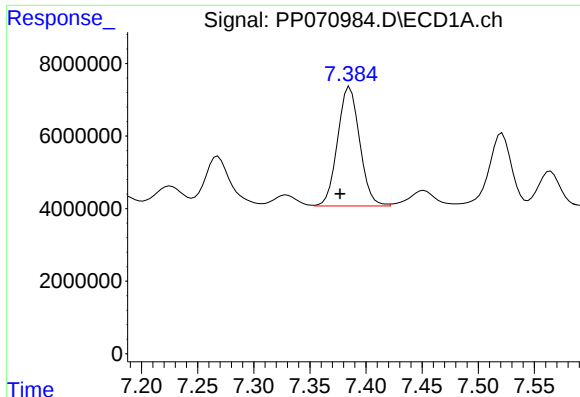
#28 AR-1254-3

R.T.: 7.103 min
Delta R.T.: 0.008 min
Response: 50898472
Conc: 510.37 ng/ml



#28 AR-1254-3

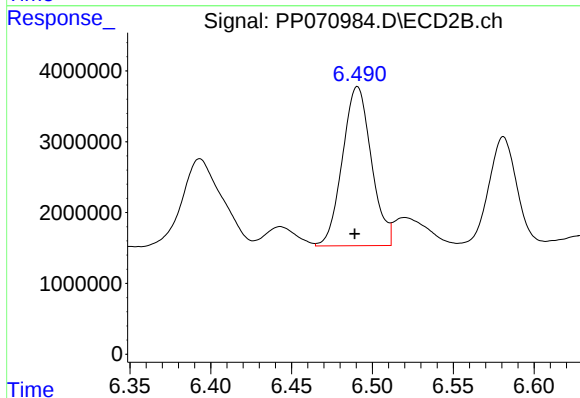
R.T.: 6.262 min
Delta R.T.: 0.002 min
Response: 42032253
Conc: 484.01 ng/ml



#29 AR-1254-4

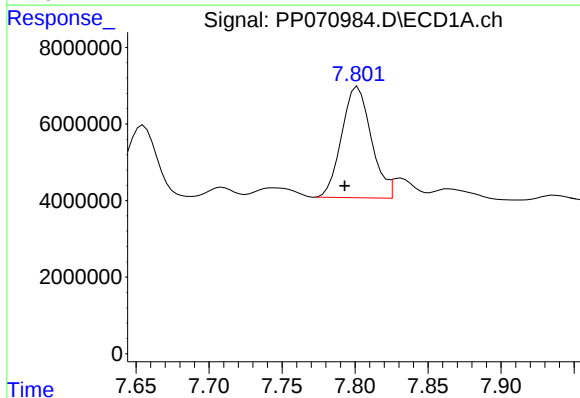
R.T.: 7.386 min
Delta R.T.: 0.009 min
Response: 45057400
Conc: 520.31 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



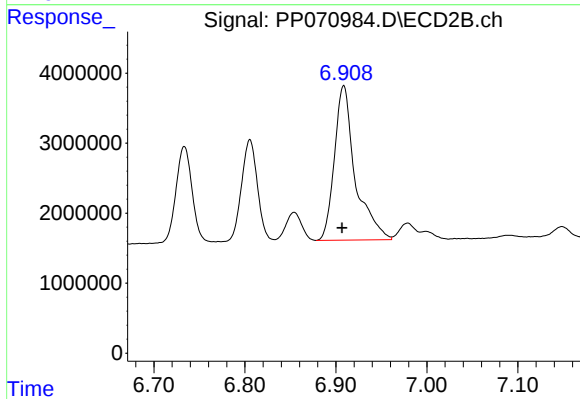
#29 AR-1254-4

R.T.: 6.491 min
Delta R.T.: 0.002 min
Response: 27945075
Conc: 498.13 ng/ml



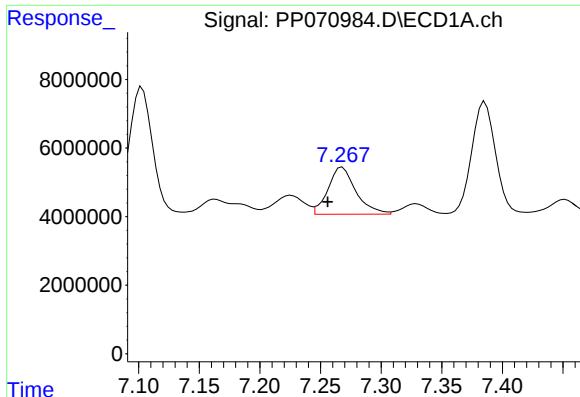
#30 AR-1254-5

R.T.: 7.802 min
Delta R.T.: 0.009 min
Response: 40906568
Conc: 509.10 ng/ml



#30 AR-1254-5

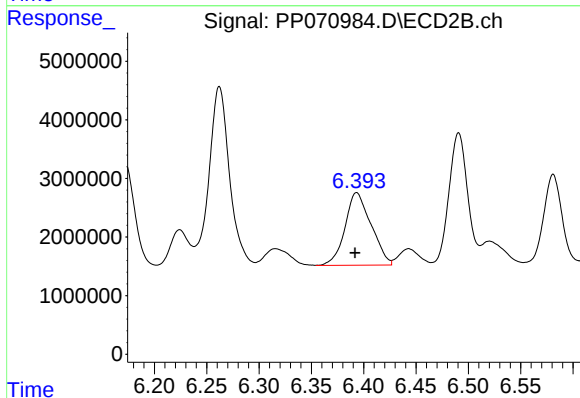
R.T.: 6.909 min
Delta R.T.: 0.002 min
Response: 35132774
Conc: 486.94 ng/ml



#31 AR-1260-1

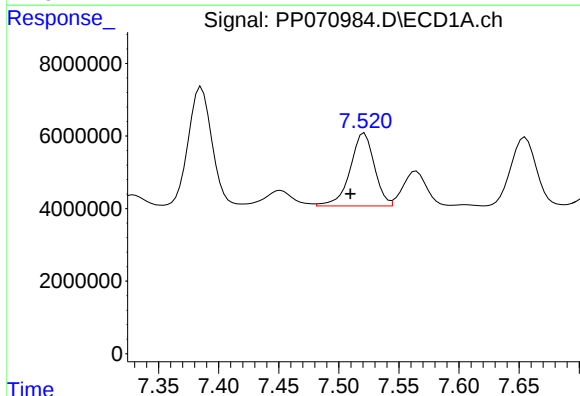
R.T.: 7.268 min
Delta R.T.: 0.012 min
Response: 21972839
Conc: 327.21 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



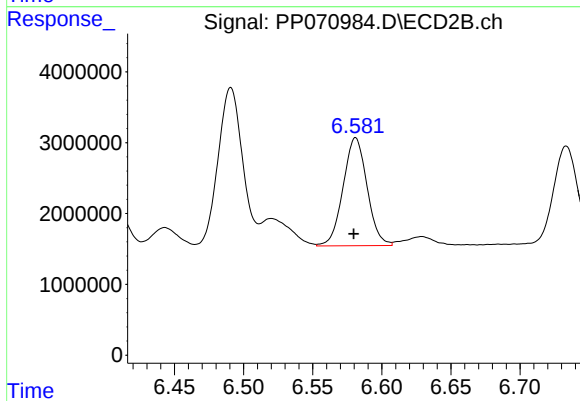
#31 AR-1260-1

R.T.: 6.393 min
Delta R.T.: 0.002 min
Response: 21480922
Conc: 419.50 ng/ml



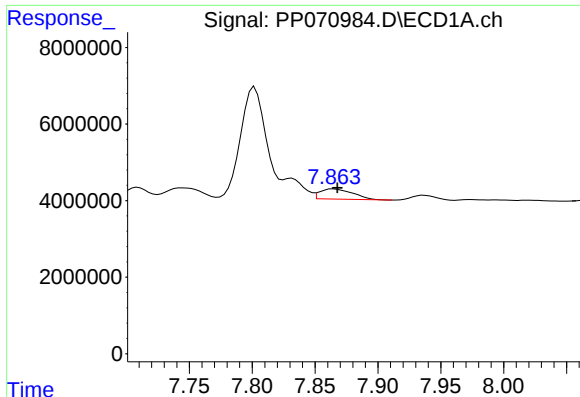
#32 AR-1260-2

R.T.: 7.521 min
Delta R.T.: 0.012 min
Response: 28169440
Conc: 293.02 ng/ml



#32 AR-1260-2

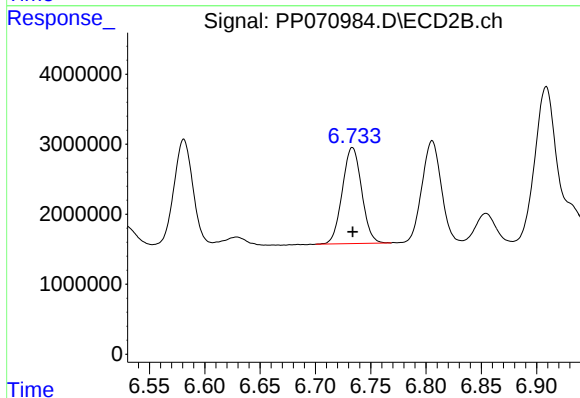
R.T.: 6.581 min
Delta R.T.: 0.001 min
Response: 18425839
Conc: 288.83 ng/ml



#33 AR-1260-3

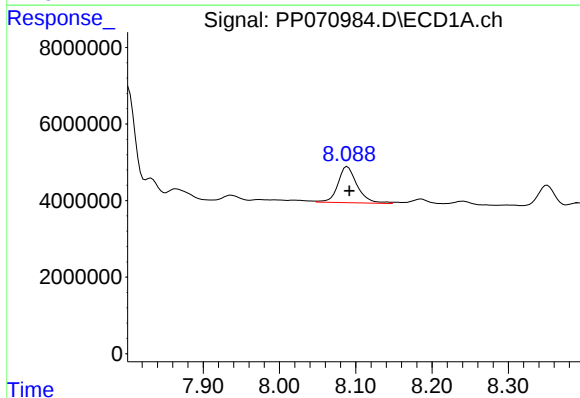
R.T.: 7.865 min
Delta R.T.: -0.003 min
Response: 4888519
Conc: 61.17 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



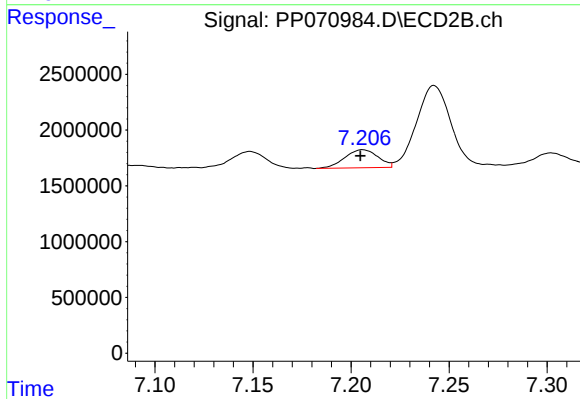
#33 AR-1260-3

R.T.: 6.733 min
Delta R.T.: 0.000 min
Response: 16692292
Conc: 306.35 ng/ml



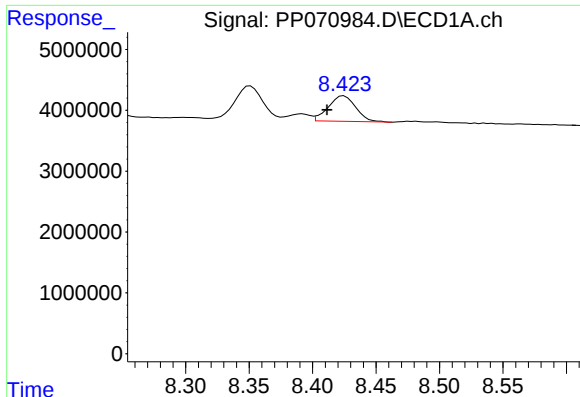
#34 AR-1260-4

R.T.: 8.089 min
Delta R.T.: -0.003 min
Response: 16520729
Conc: 209.82 ng/ml



#34 AR-1260-4

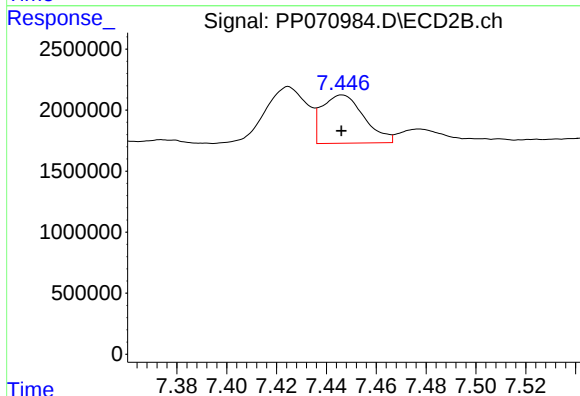
R.T.: 7.206 min
Delta R.T.: 0.001 min
Response: 1914507
Conc: 40.03 ng/ml



#35 AR-1260-5

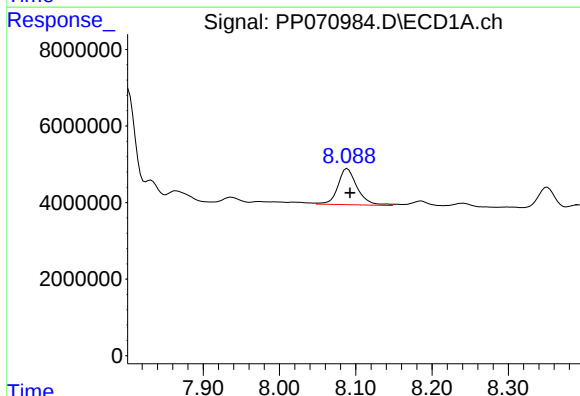
R.T.: 8.425 min
Delta R.T.: 0.013 min
Response: 6294022
Conc: 39.61 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



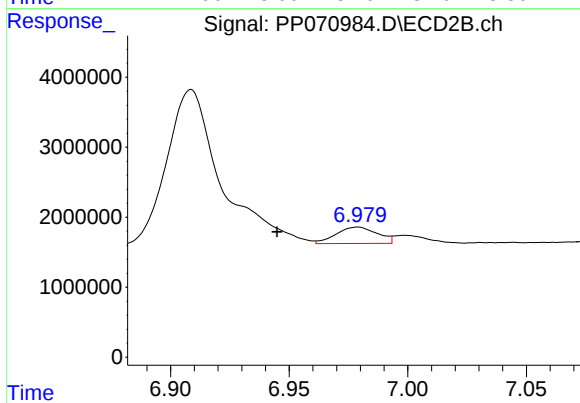
#35 AR-1260-5

R.T.: 7.446 min
Delta R.T.: 0.000 min
Response: 4642556
Conc: 37.29 ng/ml



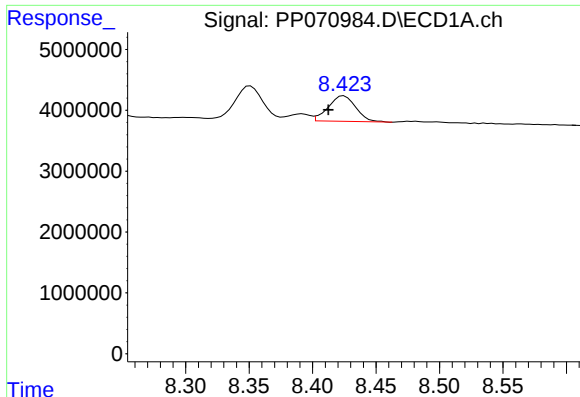
#36 AR-1262-1

R.T.: 8.089 min
Delta R.T.: -0.004 min
Response: 16520729
Conc: 155.42 ng/ml



#36 AR-1262-1

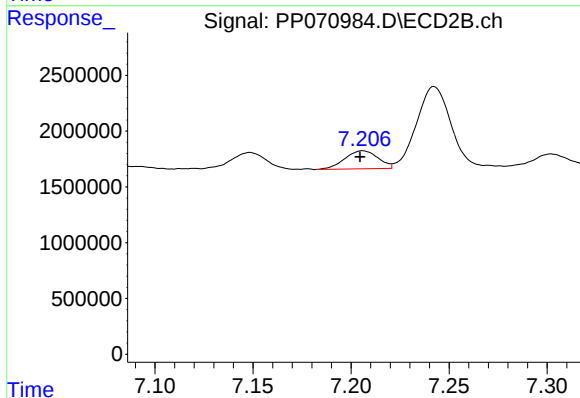
R.T.: 6.979 min
Delta R.T.: 0.034 min
Response: 2856404
Conc: 33.38 ng/ml



#37 AR-1262-2

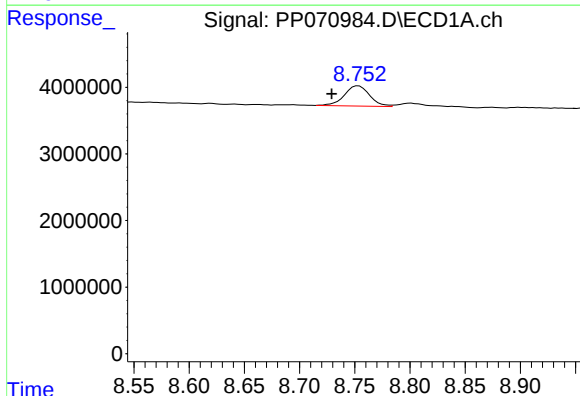
R.T.: 8.425 min
Delta R.T.: 0.012 min
Response: 6294022
Conc: 31.73 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



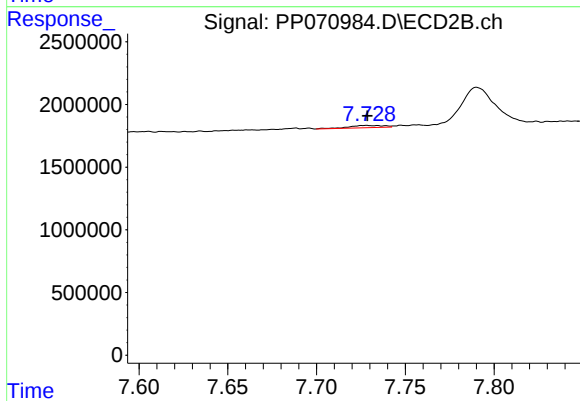
#37 AR-1262-2

R.T.: 7.206 min
Delta R.T.: 0.002 min
Response: 1914507
Conc: 27.96 ng/ml



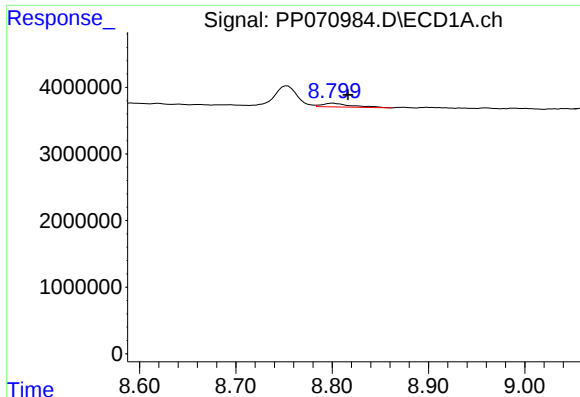
#38 AR-1262-3

R.T.: 8.753 min
Delta R.T.: 0.024 min
Response: 4817695
Conc: 36.57 ng/ml



#38 AR-1262-3

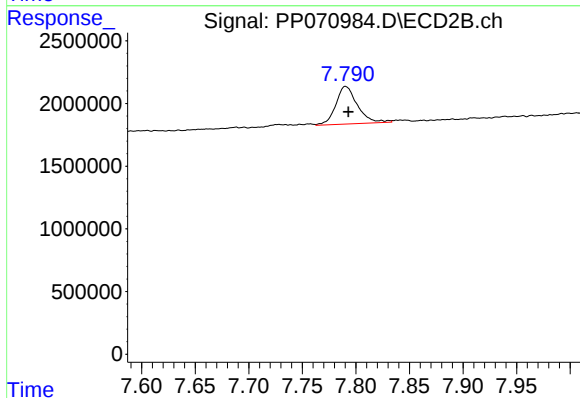
R.T.: 7.728 min
Delta R.T.: 0.000 min
Response: 248428
Conc: 4.09 ng/ml



#39 AR-1262-4

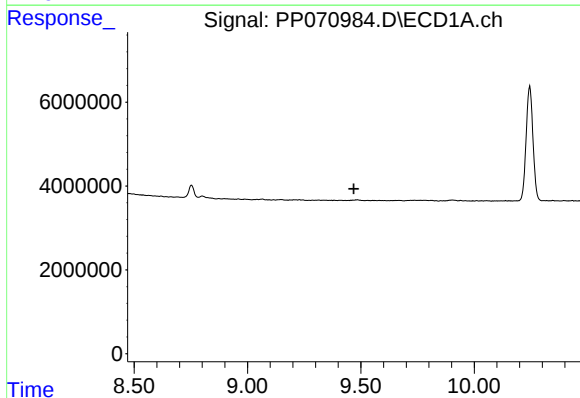
R.T.: 8.801 min
Delta R.T.: -0.016 min
Response: 1125593
Conc: 11.77 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



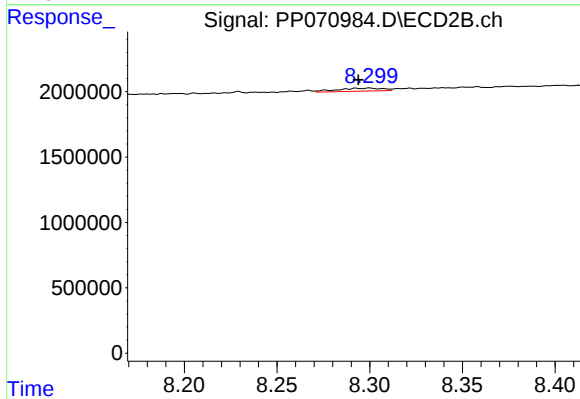
#39 AR-1262-4

R.T.: 7.790 min
Delta R.T.: -0.002 min
Response: 4220054
Conc: 42.45 ng/ml



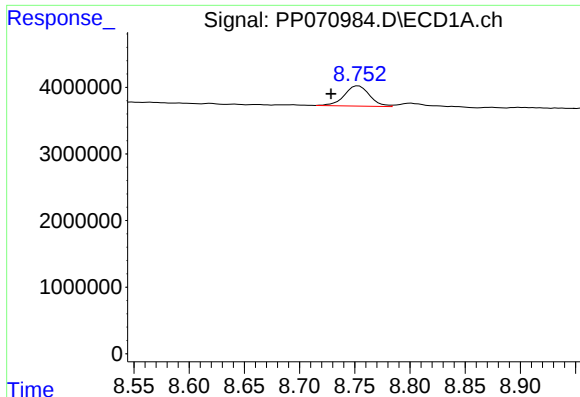
#40 AR-1262-5

R.T.: 0.000 min
Exp R.T. : 9.469 min
Response: 0
Conc: N.D.



#40 AR-1262-5

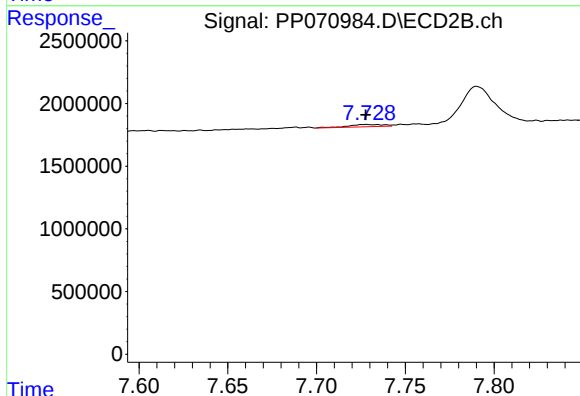
R.T.: 8.300 min
Delta R.T.: 0.006 min
Response: 397852
Conc: 8.49 ng/ml



#41 AR-1268-1

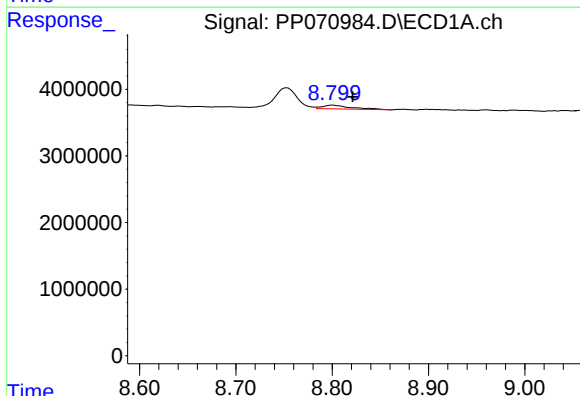
R.T.: 8.753 min
Delta R.T.: 0.025 min
Response: 4817695
Conc: 20.46 ng/ml

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



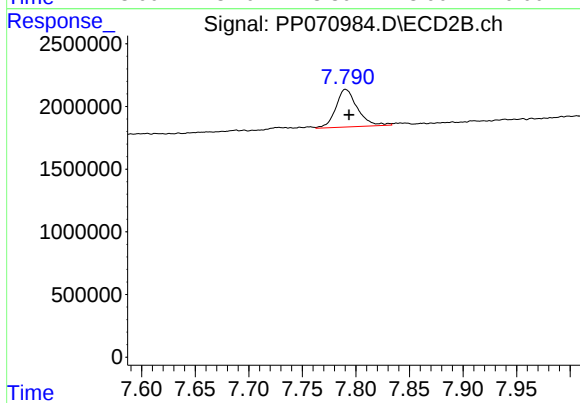
#41 AR-1268-1

R.T.: 7.728 min
Delta R.T.: 0.000 min
Response: 248428
Conc: 1.45 ng/ml



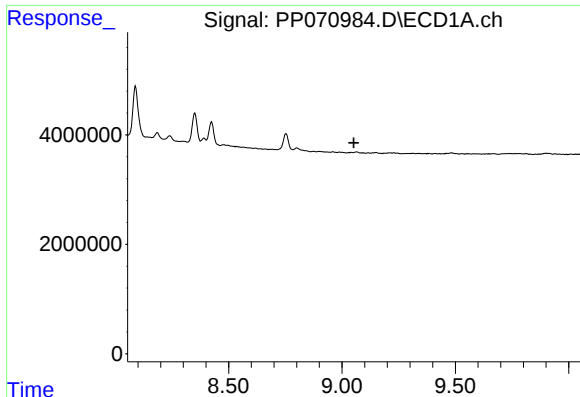
#42 AR-1268-2

R.T.: 8.801 min
Delta R.T.: -0.021 min
Response: 1125593
Conc: 5.76 ng/ml



#42 AR-1268-2

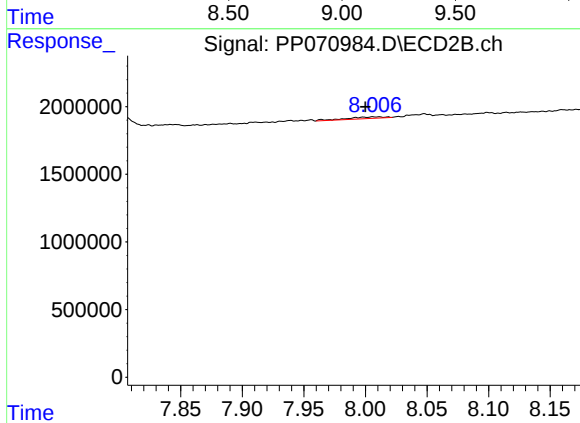
R.T.: 7.790 min
Delta R.T.: -0.003 min
Response: 4220054
Conc: 29.45 ng/ml



#43 AR-1268-3

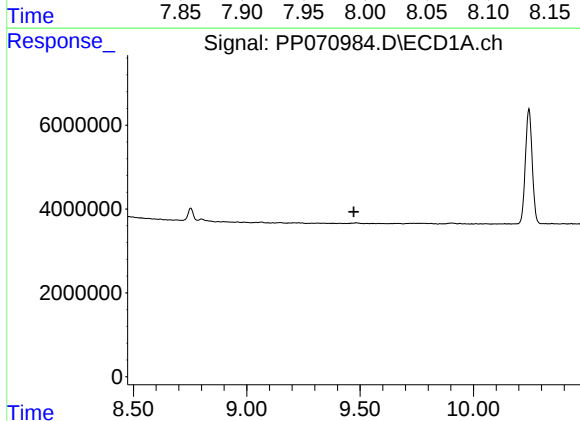
R.T.: 0.000 min
Exp R.T. : 9.053 min
Response: 0
Conc: N.D.

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



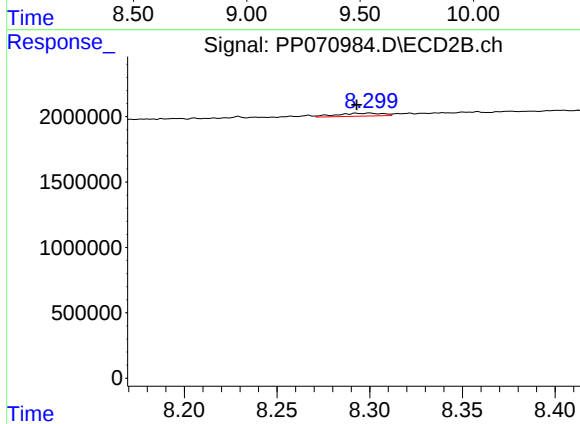
#43 AR-1268-3

R.T.: 8.006 min
Delta R.T.: 0.007 min
Response: 254069
Conc: 2.06 ng/ml



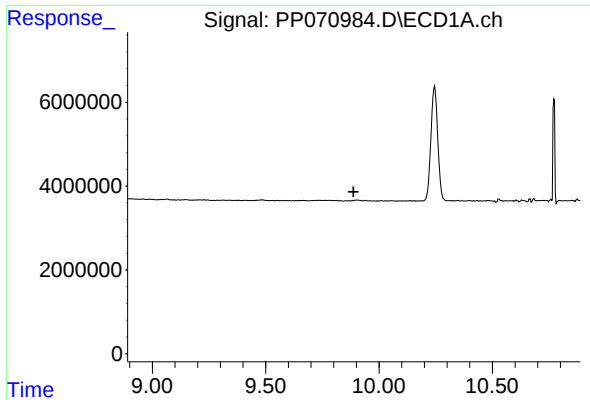
#44 AR-1268-4

R.T.: 0.000 min
Exp R.T. : 9.472 min
Response: 0
Conc: N.D.



#44 AR-1268-4

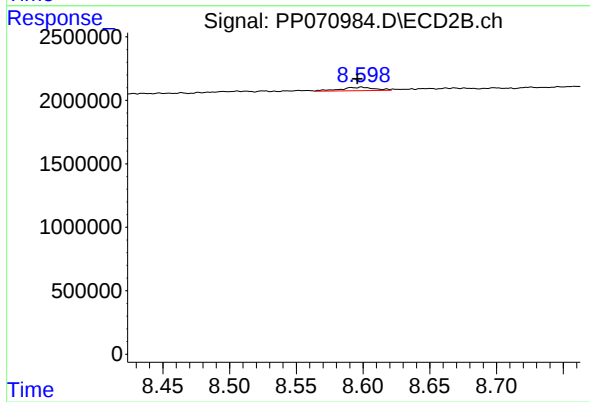
R.T.: 8.300 min
Delta R.T.: 0.007 min
Response: 397852
Conc: 7.53 ng/ml



#45 AR-1268-5

R.T.: 0.000 min
Exp R.T.: 9.888 min
Response: 0
Conc: N.D.

Instrument :
ECD_P
ClientSampleId :
AR1254CCC500



#45 AR-1268-5

R.T.: 8.599 min
Delta R.T.: 0.003 min
Response: 471109
Conc: 1.30 ng/ml