

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ091421\
 Data File : PQ054474.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 15 Sep 2021 07:23
 Operator : AJ\MA
 Sample : AR1248CCC500
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_Q
 ClientSampleId :
 AR1248CCC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 15 07:53:58 2021
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ091421.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Sep 15 05:25:53 2021
 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...	5.202	4.207	1277.5E6	712.7E6	53.494	53.912
2)	SA Decachlor...	11.372	9.538	749.4E6	625.4E6	44.403	46.146
Target Compounds							
3)	L1 AR-1016-1	6.526	5.467	237.4E6	136.1E6	287.784	299.987
4)	L1 AR-1016-2	6.551	5.487	295.4E6	156.7E6	242.174	220.850
5)	L1 AR-1016-3	6.617	5.681	160.8E6	93705621	212.359	273.613 #
6)	L1 AR-1016-4	6.724	5.730	165.0E6	187.1E6	266.778	673.659 #
7)	L1 AR-1016-5	7.038	5.961	333.4E6	207.4E6	586.750	600.786
8)	L2 AR-1221-1	5.446	4.463	2300941	3771312	8.932	29.013 #
9)	L2 AR-1221-2	5.557	4.563	24663828	15324747	129.026	160.844
10)	L2 AR-1221-3	5.641	4.653	40517937	17631612	67.604	55.194
11)	L3 AR-1232-1	5.641	4.653	40517937	17631612	87.564	73.704
12)	L3 AR-1232-2	6.231	5.487	125.3E6	156.7E6	442.619	504.855
13)	L3 AR-1232-3	6.551	5.681	295.4E6	93705621	561.827	650.264
14)	L3 AR-1232-4	6.724	5.775	165.0E6	189.6E6	617.413	1500.753 #
15)	L3 AR-1232-5	6.818	5.961	314.6E6	207.4E6	1556.084	1429.867
16)	L4 AR-1242-1	6.526	5.467	237.4E6	136.1E6	402.995	422.044
17)	L4 AR-1242-2	6.551	5.487	295.4E6	156.7E6	329.247	307.546
18)	L4 AR-1242-3	6.617	5.681	160.8E6	93705621	286.093	364.926 #
19)	L4 AR-1242-4	6.724	5.775	165.0E6	189.6E6	360.564	749.047 #
20)	L4 AR-1242-5	7.506	6.339	365.3E6	348.6E6	780.070	981.136 #
21)	L5 AR-1248-1	6.526	5.467	237.4E6	136.1E6	474.291	520.353
22)	L5 AR-1248-2	6.818	5.730	314.6E6	187.1E6	484.280	525.323
23)	L5 AR-1248-3	7.038	5.775	333.4E6	189.6E6	466.145	533.107
24)	L5 AR-1248-4	7.466	5.961	366.1E6	207.4E6	462.728	482.767
25)	L5 AR-1248-5	7.506	6.383	365.3E6	236.8E6	455.163	552.660
26)	L6 AR-1254-1	7.435	6.339	281.6E6	348.6E6	323.317	457.564 #
27)	L6 AR-1254-2	7.671	6.498	361.6E6	105.7E6	270.298	151.061 #
28)	L6 AR-1254-3	8.046	6.919	197.5E6	158.6E6	141.803	143.908
29)	L6 AR-1254-4	8.342	7.158	126.5E6	117.7E6	118.748	155.629 #
30)	L6 AR-1254-5	8.769	7.586	34166655	25717676	29.729	23.238
31)	L7 AR-1260-1	8.211	7.067	25114653	78220109	25.307	104.158 #
32)	L7 AR-1260-2	8.471	7.251	39667759	23089928	33.711	22.311 #
33)	L7 AR-1260-3	8.836	7.405	9551304	19396611	12.471	21.938 #
34)	L7 AR-1260-4	9.077	7.888	17918278	4447394	19.183	6.427 #
35)	L7 AR-1260-5	9.425	8.136	10494052	12310744	5.692	6.441
36)	L8 AR-1262-1	8.836	7.586	9551304	25717676	8.129	49.775 #
37)	L8 AR-1262-2	9.425	8.136	10494052	12310744	4.838	5.558
38)	L8 AR-1262-3	9.755	8.422	2710701	2490734	3.043	2.807
39)	L8 AR-1262-4	0.000	8.486	0	6915723	N.D.	4.547 #
40)	L8 AR-1262-5	10.567	8.987	6844283	2579199	8.906	3.755 #
41)	L9 AR-1268-1	9.755	8.422	2710701	2490734	1.081	0.918

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ091421\
Data File : PQ054474.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Sep 2021 07:23
Operator : AJ\MA
Sample : AR1248CCC500
Misc :
ALS Vial : 13 Sample Multiplier: 1

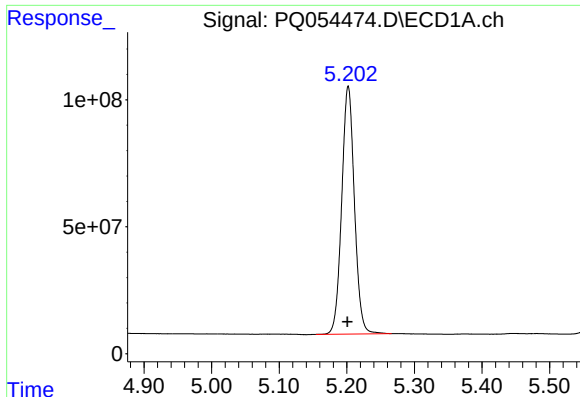
Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 07:53:58 2021
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ091421.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Sep 15 05:25:53 2021
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	0.000	8.486	0	6915723	N.D.	3.002 #
44) L9	AR-1268-4	10.567	8.987	6844283	2579199	8.021	3.318 #
45) L9	AR-1268-5	11.012	9.282	5454332	4949808	0.865	0.861

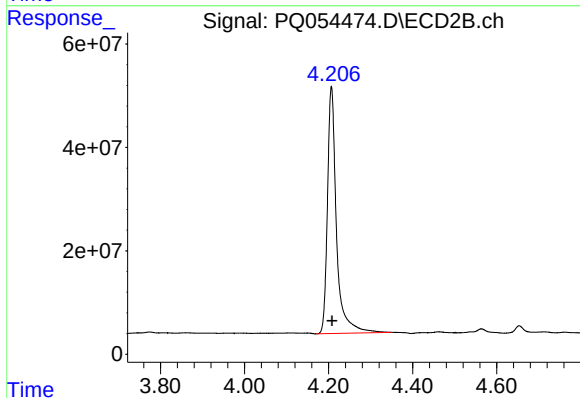
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



#1 Tetrachloro-m-xylene

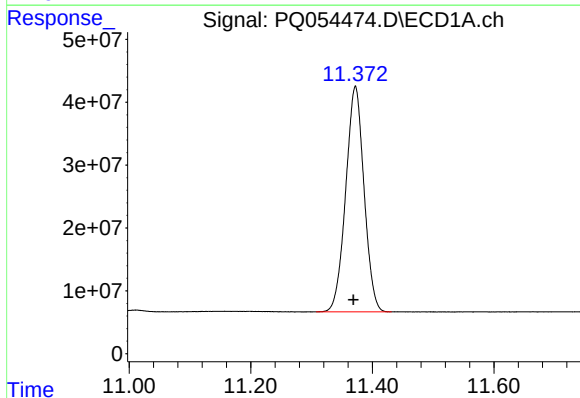
R.T.: 5.202 min
Delta R.T.: 0.001 min
Response: 1277509435
Conc: 53.49 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



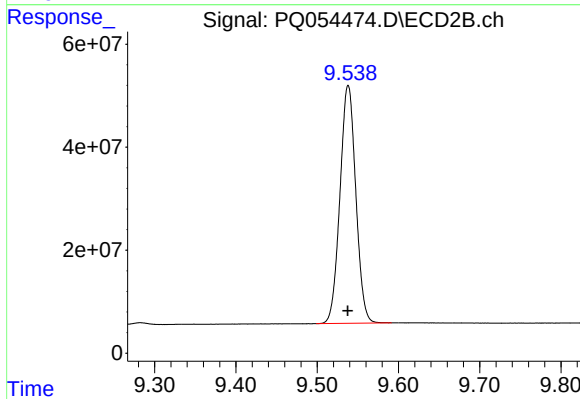
#1 Tetrachloro-m-xylene

R.T.: 4.207 min
Delta R.T.: -0.001 min
Response: 712709078
Conc: 53.91 ng/ml



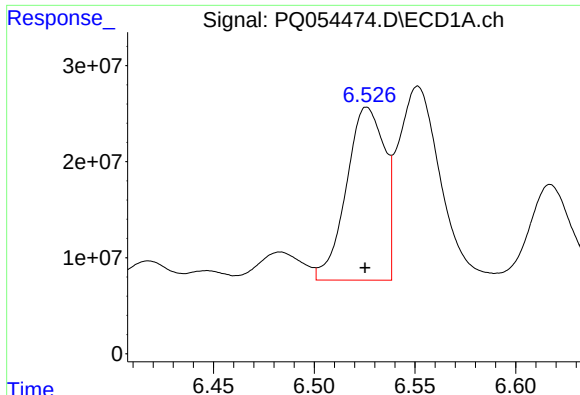
#2 Decachlorobiphenyl

R.T.: 11.372 min
Delta R.T.: 0.003 min
Response: 749446777
Conc: 44.40 ng/ml



#2 Decachlorobiphenyl

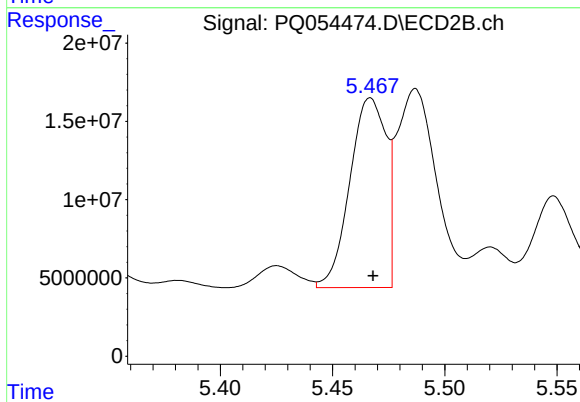
R.T.: 9.538 min
Delta R.T.: 0.000 min
Response: 625376485
Conc: 46.15 ng/ml



#3 AR-1016-1

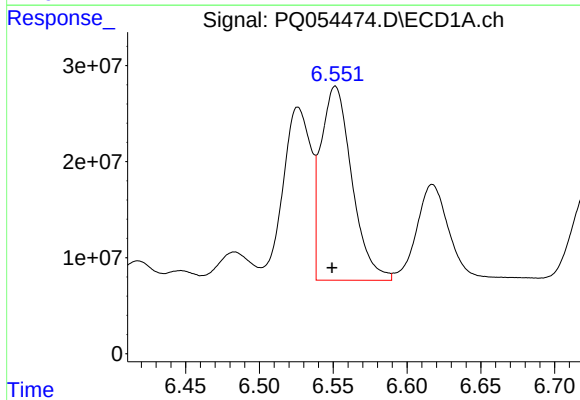
R.T.: 6.526 min
Delta R.T.: 0.000 min
Response: 237383359
Conc: 287.78 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



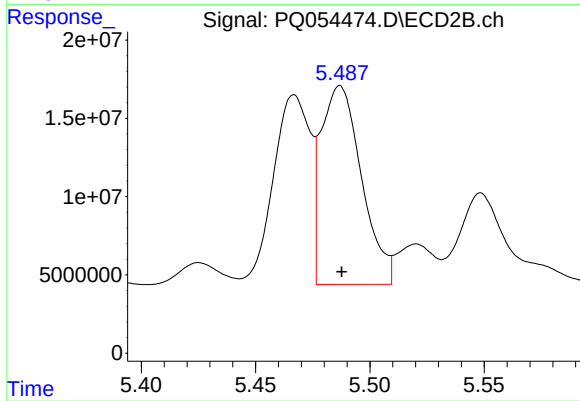
#3 AR-1016-1

R.T.: 5.467 min
Delta R.T.: -0.001 min
Response: 136146672
Conc: 299.99 ng/ml



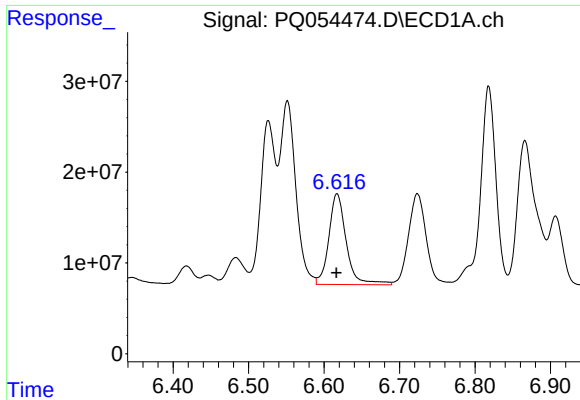
#4 AR-1016-2

R.T.: 6.551 min
Delta R.T.: 0.002 min
Response: 295412447
Conc: 242.17 ng/ml



#4 AR-1016-2

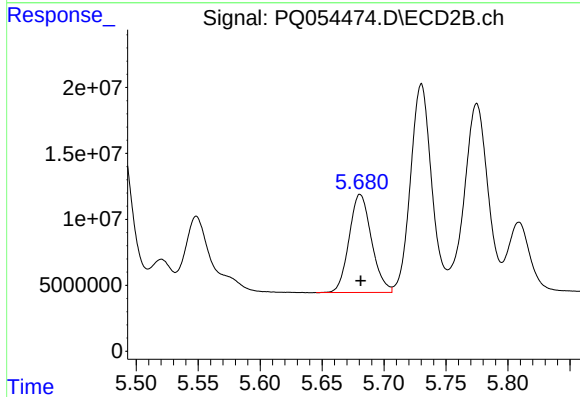
R.T.: 5.487 min
Delta R.T.: 0.000 min
Response: 156732723
Conc: 220.85 ng/ml



#5 AR-1016-3

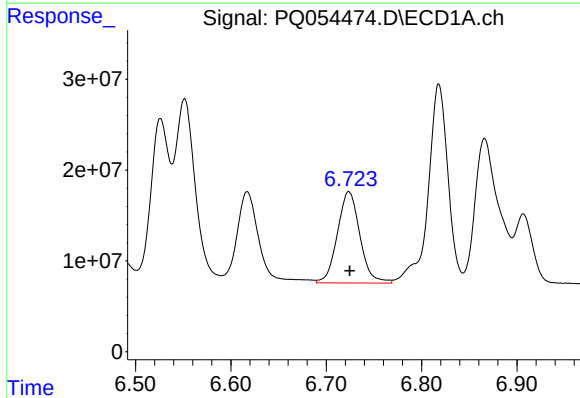
R.T.: 6.617 min
Delta R.T.: 0.000 min
Response: 160770472
Conc: 212.36 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



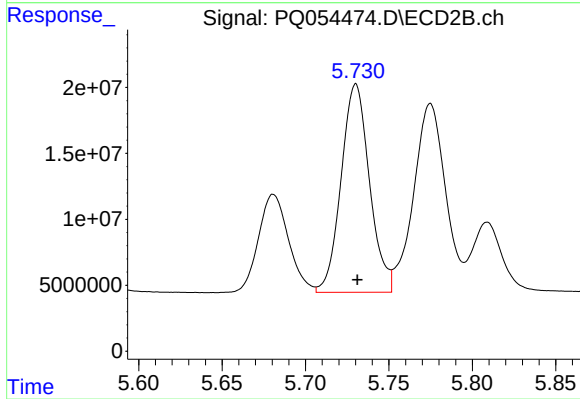
#5 AR-1016-3

R.T.: 5.681 min
Delta R.T.: 0.000 min
Response: 93705621
Conc: 273.61 ng/ml



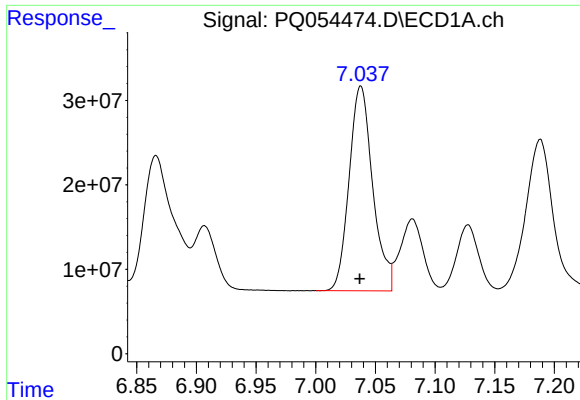
#6 AR-1016-4

R.T.: 6.724 min
Delta R.T.: -0.001 min
Response: 164951614
Conc: 266.78 ng/ml



#6 AR-1016-4

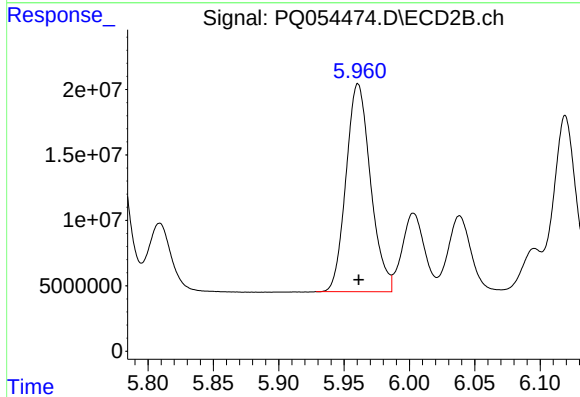
R.T.: 5.730 min
Delta R.T.: 0.000 min
Response: 187108064
Conc: 673.66 ng/ml



#7 AR-1016-5

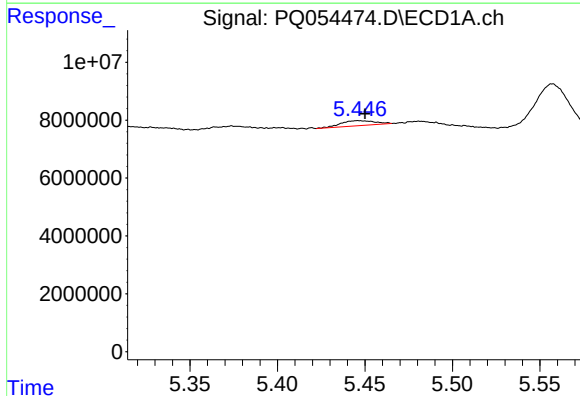
R.T.: 7.038 min
Delta R.T.: 0.001 min
Response: 333354797
Conc: 586.75 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



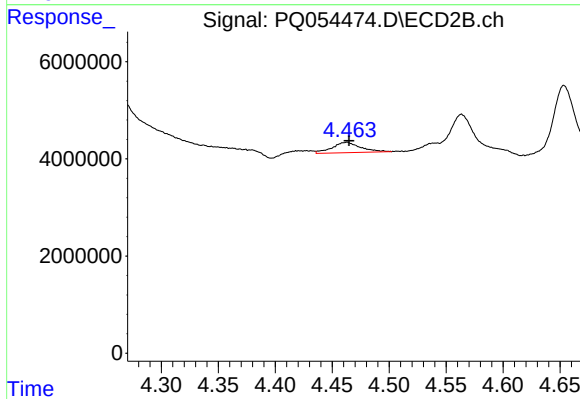
#7 AR-1016-5

R.T.: 5.961 min
Delta R.T.: 0.000 min
Response: 207376913
Conc: 600.79 ng/ml



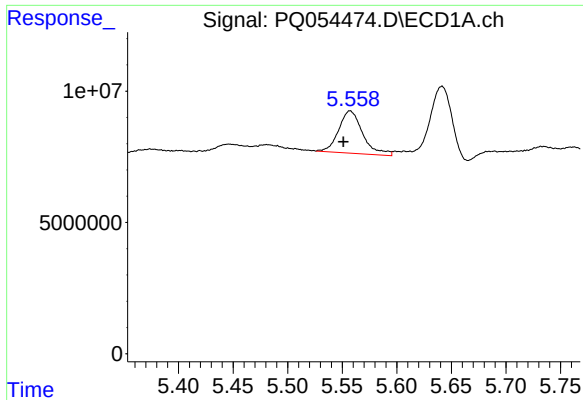
#8 AR-1221-1

R.T.: 5.446 min
Delta R.T.: -0.004 min
Response: 2300941
Conc: 8.93 ng/ml



#8 AR-1221-1

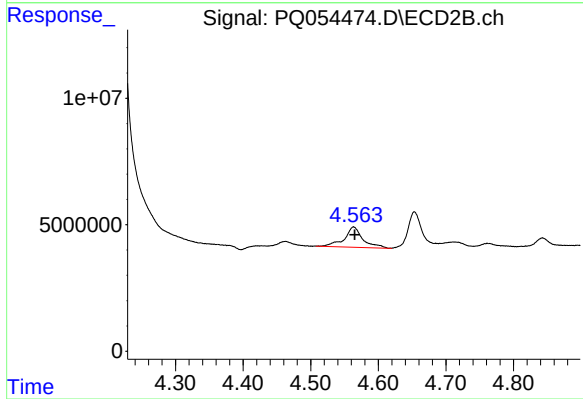
R.T.: 4.463 min
Delta R.T.: -0.002 min
Response: 3771312
Conc: 29.01 ng/ml



#9 AR-1221-2

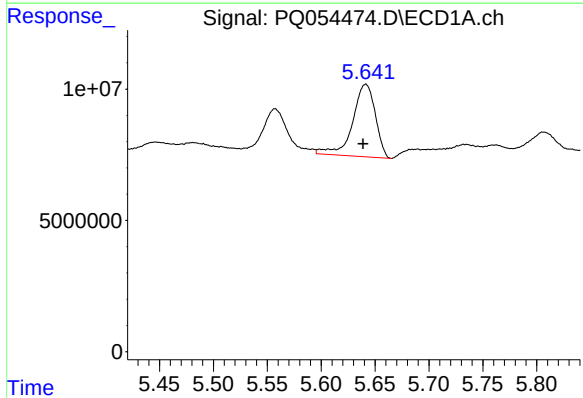
R.T.: 5.557 min
Delta R.T.: 0.006 min
Response: 24663828
Conc: 129.03 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



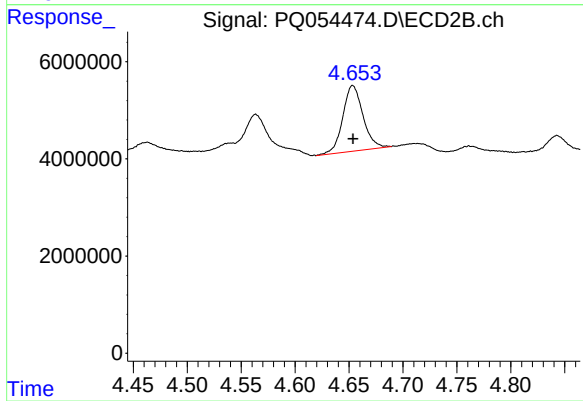
#9 AR-1221-2

R.T.: 4.563 min
Delta R.T.: -0.002 min
Response: 15324747
Conc: 160.84 ng/ml



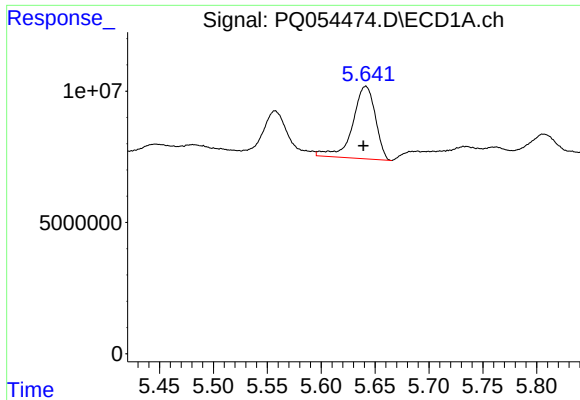
#10 AR-1221-3

R.T.: 5.641 min
Delta R.T.: 0.003 min
Response: 40517937
Conc: 67.60 ng/ml



#10 AR-1221-3

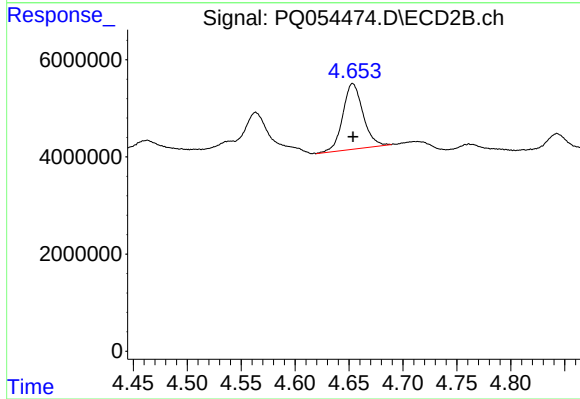
R.T.: 4.653 min
Delta R.T.: 0.000 min
Response: 17631612
Conc: 55.19 ng/ml



#11 AR-1232-1

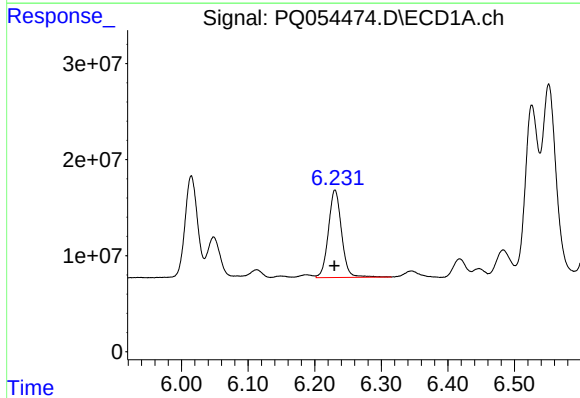
R.T.: 5.641 min
Delta R.T.: 0.002 min
Response: 40517937
Conc: 87.56 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



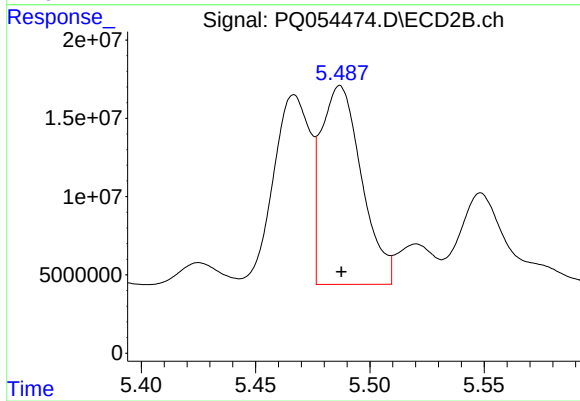
#11 AR-1232-1

R.T.: 4.653 min
Delta R.T.: 0.000 min
Response: 17631612
Conc: 73.70 ng/ml



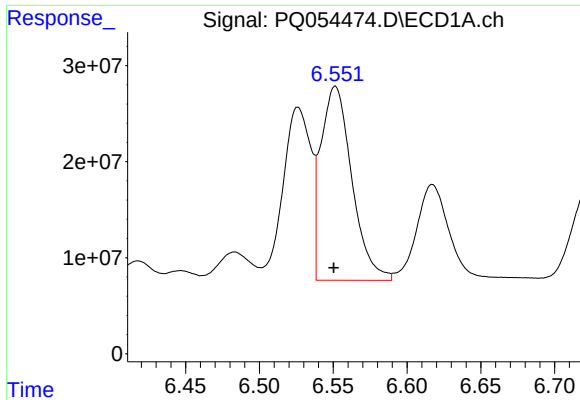
#12 AR-1232-2

R.T.: 6.231 min
Delta R.T.: 0.000 min
Response: 125284982
Conc: 442.62 ng/ml



#12 AR-1232-2

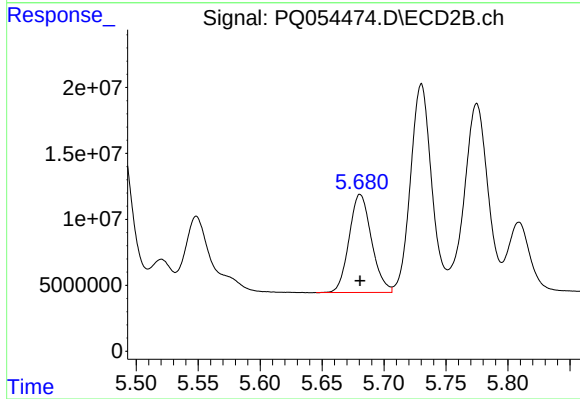
R.T.: 5.487 min
Delta R.T.: 0.000 min
Response: 156732723
Conc: 504.86 ng/ml



#13 AR-1232-3

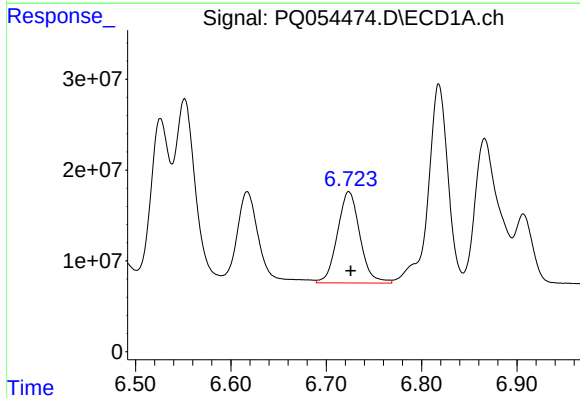
R.T.: 6.551 min
Delta R.T.: 0.001 min
Response: 295412447
Conc: 561.83 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



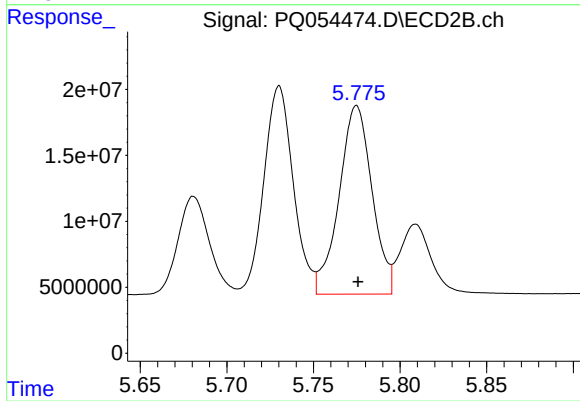
#13 AR-1232-3

R.T.: 5.681 min
Delta R.T.: 0.000 min
Response: 93705621
Conc: 650.26 ng/ml



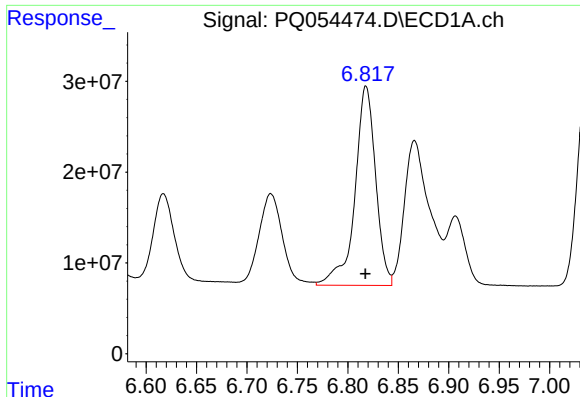
#14 AR-1232-4

R.T.: 6.724 min
Delta R.T.: -0.002 min
Response: 164951614
Conc: 617.41 ng/ml



#14 AR-1232-4

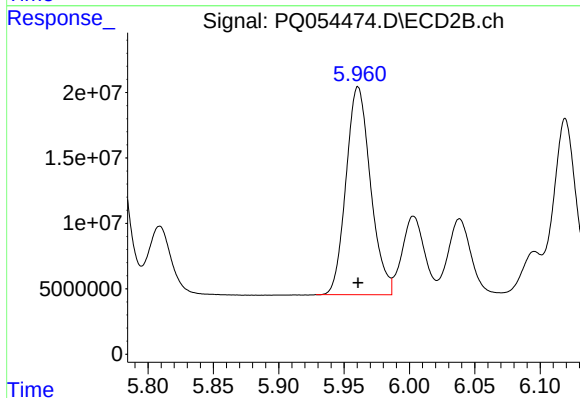
R.T.: 5.775 min
Delta R.T.: 0.000 min
Response: 189575734
Conc: 1500.75 ng/ml



#15 AR-1232-5

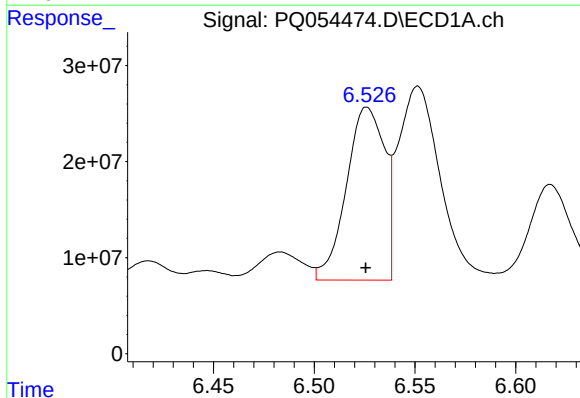
R.T.: 6.818 min
Delta R.T.: 0.000 min
Response: 314631905
Conc: 1556.08 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



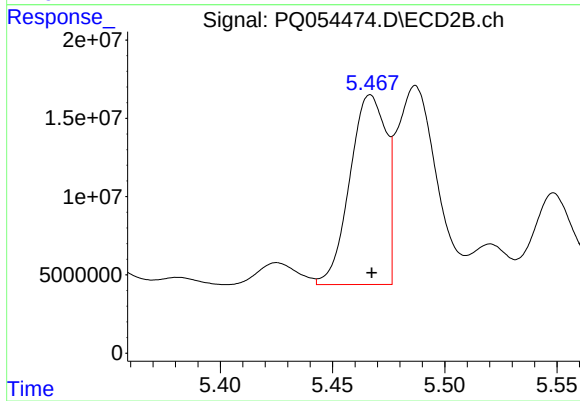
#15 AR-1232-5

R.T.: 5.961 min
Delta R.T.: 0.000 min
Response: 207376913
Conc: 1429.87 ng/ml



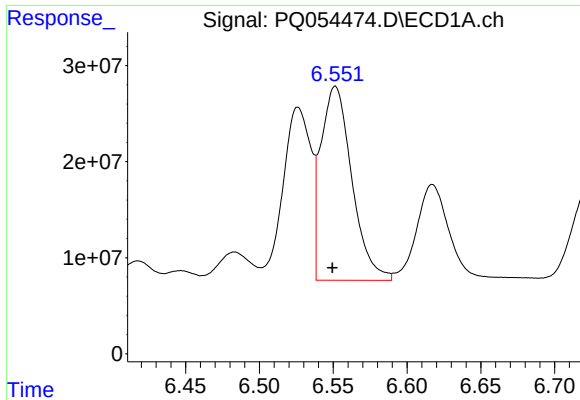
#16 AR-1242-1

R.T.: 6.526 min
Delta R.T.: 0.000 min
Response: 237383359
Conc: 403.00 ng/ml



#16 AR-1242-1

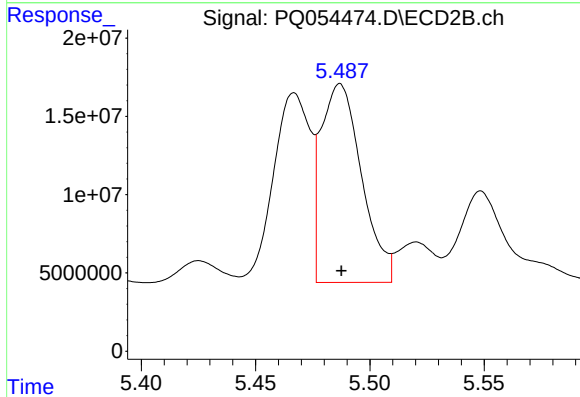
R.T.: 5.467 min
Delta R.T.: 0.000 min
Response: 136146672
Conc: 422.04 ng/ml



#17 AR-1242-2

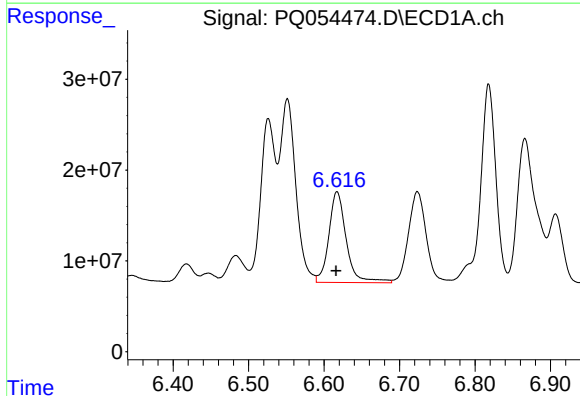
R.T.: 6.551 min
Delta R.T.: 0.002 min
Response: 295412447
Conc: 329.25 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



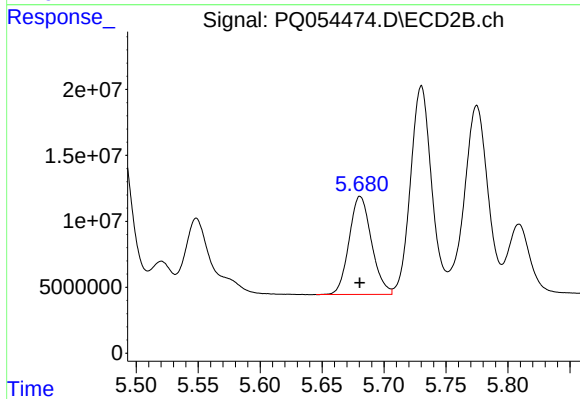
#17 AR-1242-2

R.T.: 5.487 min
Delta R.T.: 0.000 min
Response: 156732723
Conc: 307.55 ng/ml



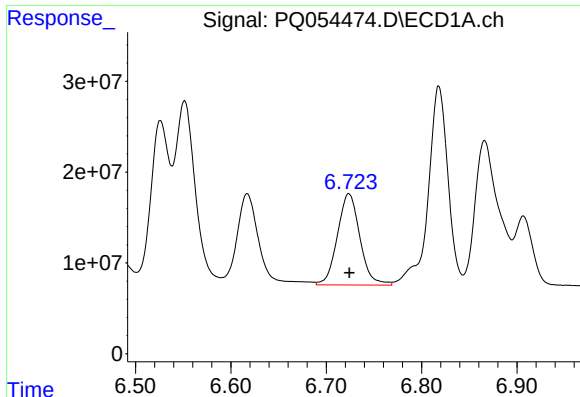
#18 AR-1242-3

R.T.: 6.617 min
Delta R.T.: 0.001 min
Response: 160770472
Conc: 286.09 ng/ml



#18 AR-1242-3

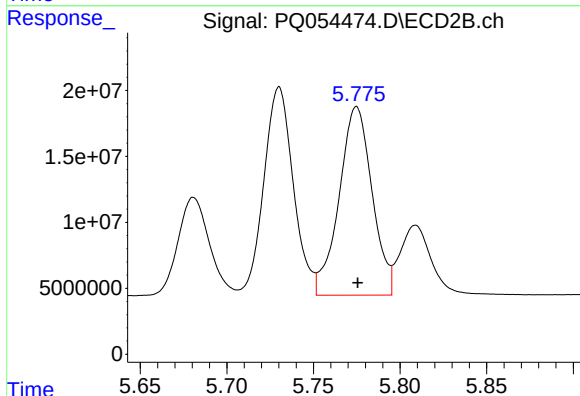
R.T.: 5.681 min
Delta R.T.: 0.000 min
Response: 93705621
Conc: 364.93 ng/ml



#19 AR-1242-4

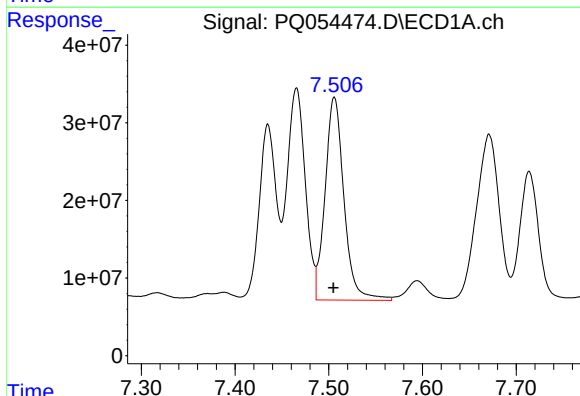
R.T.: 6.724 min
Delta R.T.: 0.000 min
Response: 164951614
Conc: 360.56 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



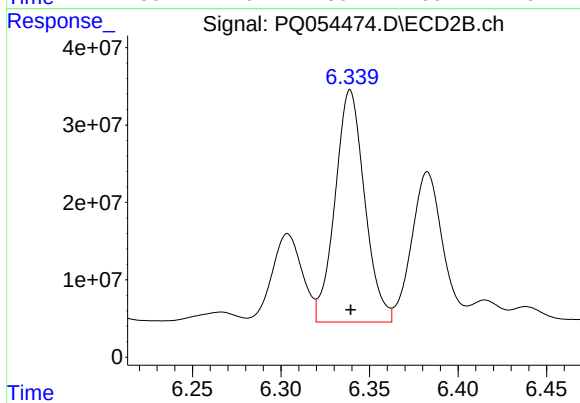
#19 AR-1242-4

R.T.: 5.775 min
Delta R.T.: 0.000 min
Response: 189575734
Conc: 749.05 ng/ml



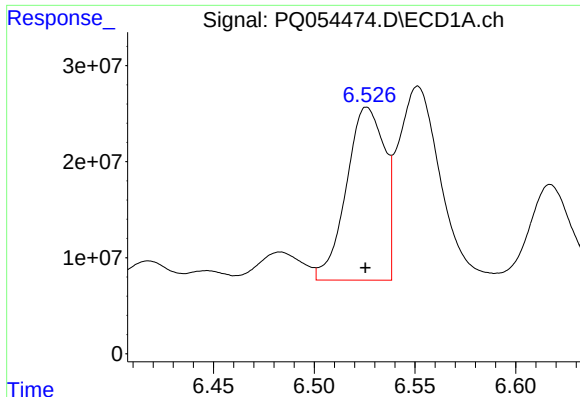
#20 AR-1242-5

R.T.: 7.506 min
Delta R.T.: 0.000 min
Response: 365250711
Conc: 780.07 ng/ml



#20 AR-1242-5

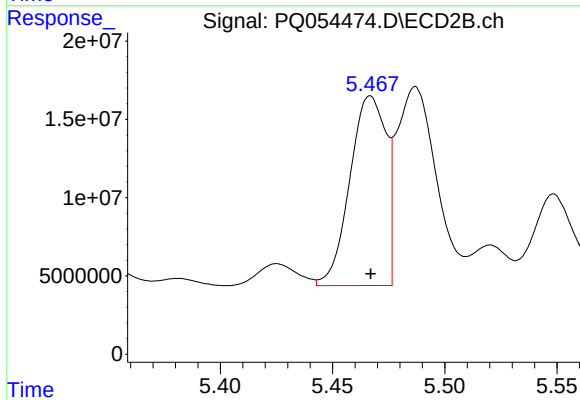
R.T.: 6.339 min
Delta R.T.: 0.000 min
Response: 348575646
Conc: 981.14 ng/ml



#21 AR-1248-1

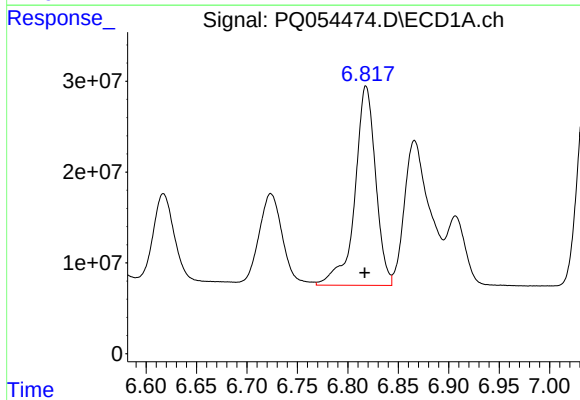
R.T.: 6.526 min
Delta R.T.: 0.000 min
Response: 237383359
Conc: 474.29 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



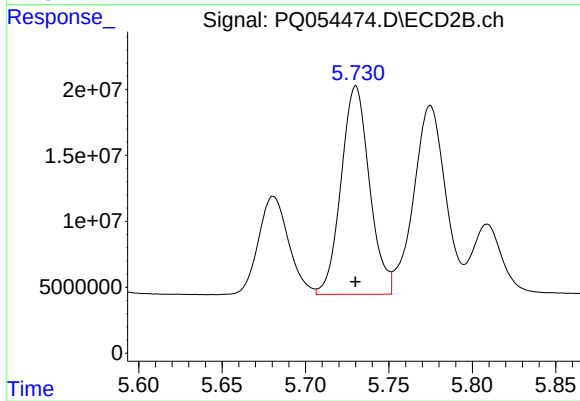
#21 AR-1248-1

R.T.: 5.467 min
Delta R.T.: 0.000 min
Response: 136146672
Conc: 520.35 ng/ml



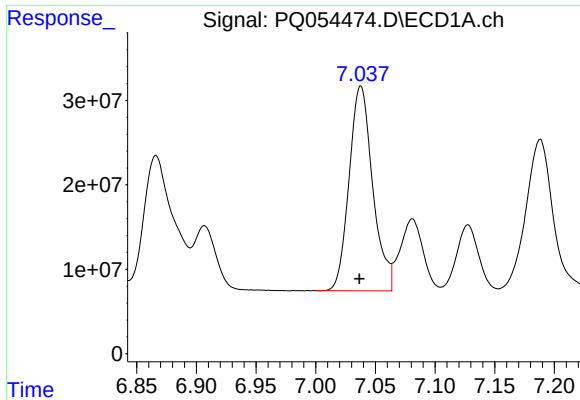
#22 AR-1248-2

R.T.: 6.818 min
Delta R.T.: 0.001 min
Response: 314631905
Conc: 484.28 ng/ml



#22 AR-1248-2

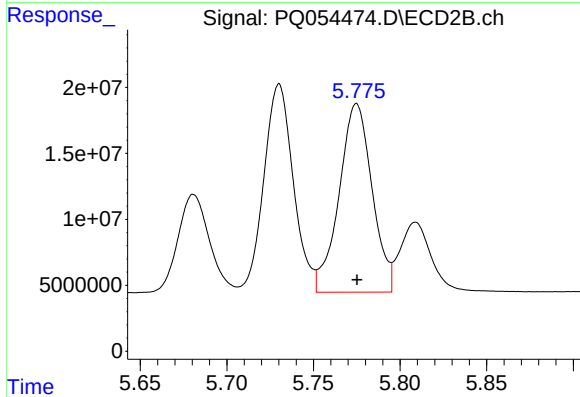
R.T.: 5.730 min
Delta R.T.: 0.000 min
Response: 187108064
Conc: 525.32 ng/ml



#23 AR-1248-3

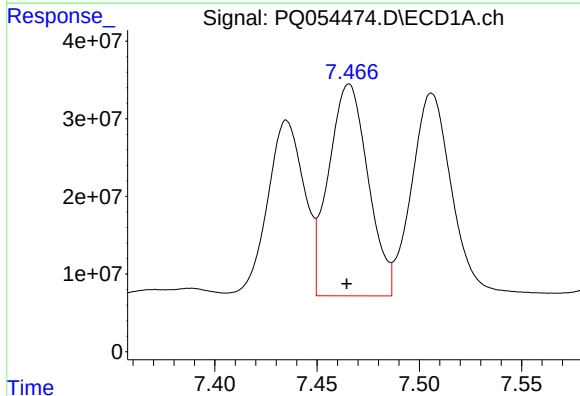
R.T.: 7.038 min
Delta R.T.: 0.001 min
Response: 333354797
Conc: 466.15 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



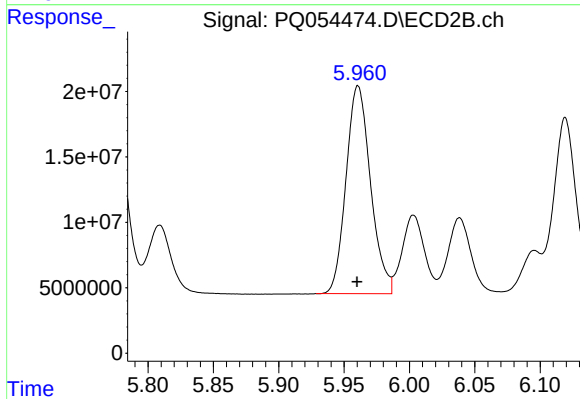
#23 AR-1248-3

R.T.: 5.775 min
Delta R.T.: 0.000 min
Response: 189575734
Conc: 533.11 ng/ml



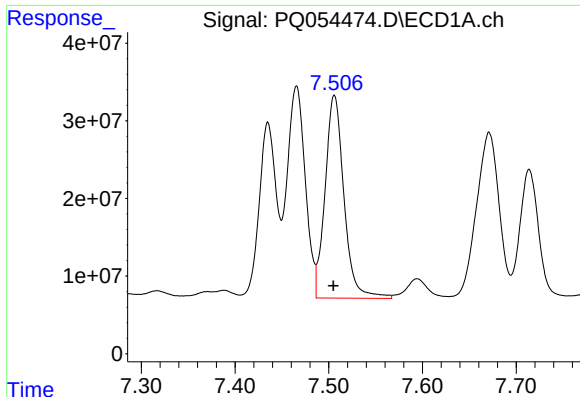
#24 AR-1248-4

R.T.: 7.466 min
Delta R.T.: 0.001 min
Response: 366064413
Conc: 462.73 ng/ml



#24 AR-1248-4

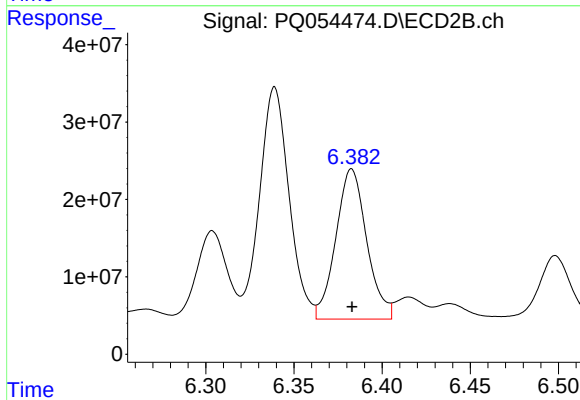
R.T.: 5.961 min
Delta R.T.: 0.000 min
Response: 207376913
Conc: 482.77 ng/ml



#25 AR-1248-5

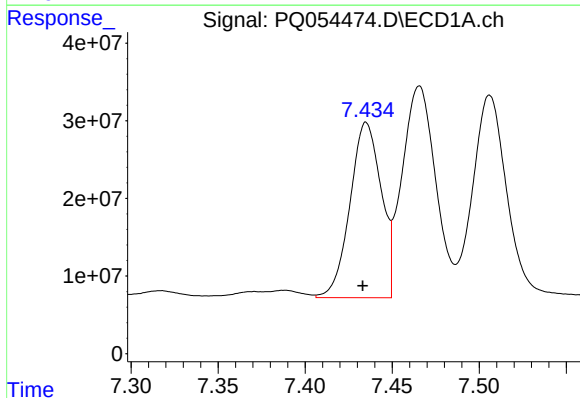
R.T.: 7.506 min
Delta R.T.: 0.001 min
Response: 365250711
Conc: 455.16 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



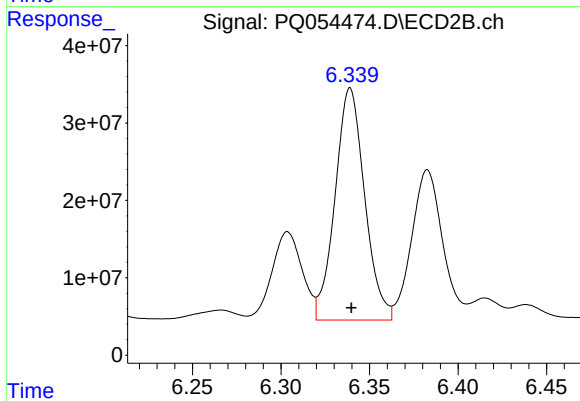
#25 AR-1248-5

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 236772977
Conc: 552.66 ng/ml



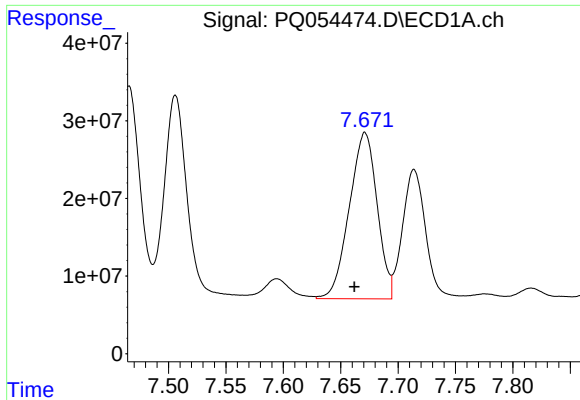
#26 AR-1254-1

R.T.: 7.435 min
Delta R.T.: 0.002 min
Response: 281636351
Conc: 323.32 ng/ml



#26 AR-1254-1

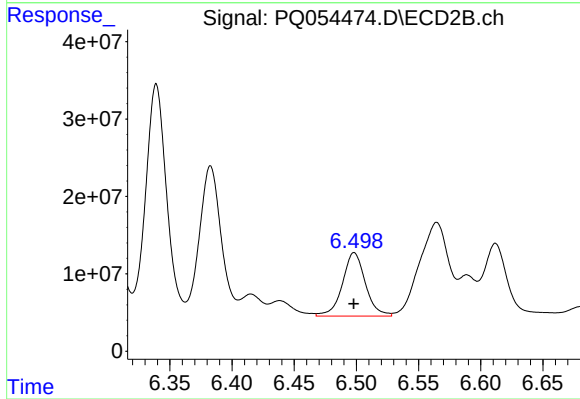
R.T.: 6.339 min
Delta R.T.: 0.000 min
Response: 348575646
Conc: 457.56 ng/ml



#27 AR-1254-2

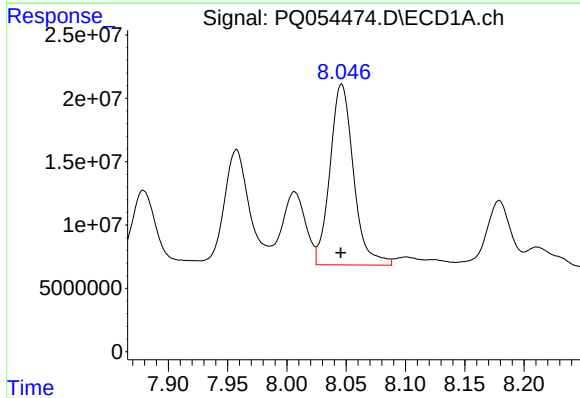
R.T.: 7.671 min
Delta R.T.: 0.009 min
Response: 361551662
Conc: 270.30 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



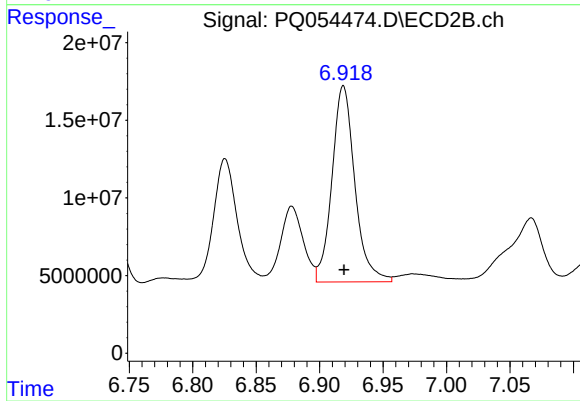
#27 AR-1254-2

R.T.: 6.498 min
Delta R.T.: 0.000 min
Response: 105709781
Conc: 151.06 ng/ml



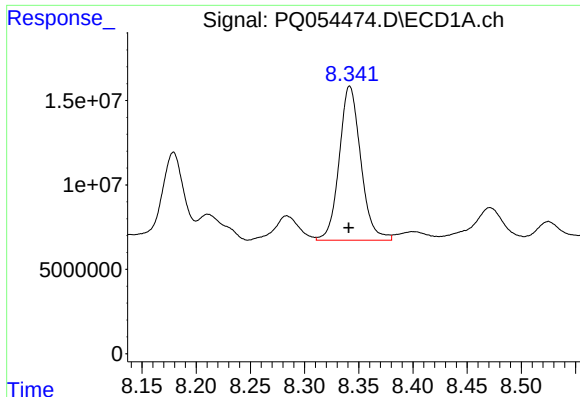
#28 AR-1254-3

R.T.: 8.046 min
Delta R.T.: 0.000 min
Response: 197495502
Conc: 141.80 ng/ml



#28 AR-1254-3

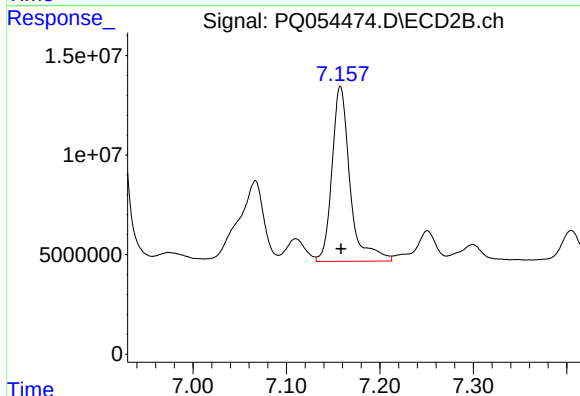
R.T.: 6.919 min
Delta R.T.: 0.000 min
Response: 158647620
Conc: 143.91 ng/ml



#29 AR-1254-4

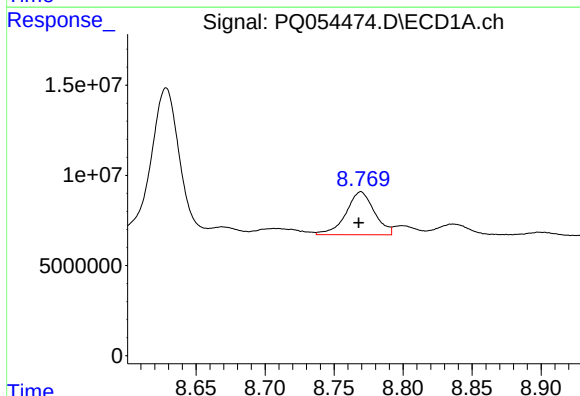
R.T.: 8.342 min
Delta R.T.: 0.000 min
Response: 126503531
Conc: 118.75 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



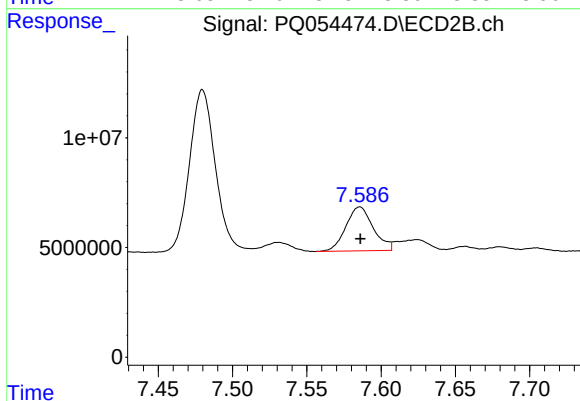
#29 AR-1254-4

R.T.: 7.158 min
Delta R.T.: 0.000 min
Response: 117673786
Conc: 155.63 ng/ml



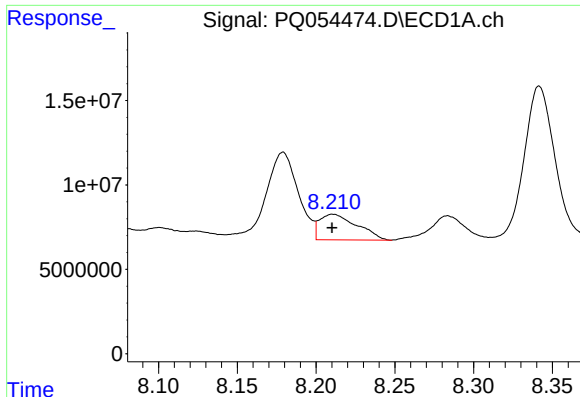
#30 AR-1254-5

R.T.: 8.769 min
Delta R.T.: 0.002 min
Response: 34166655
Conc: 29.73 ng/ml



#30 AR-1254-5

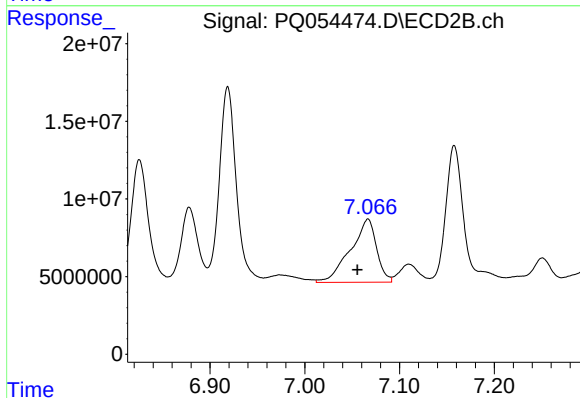
R.T.: 7.586 min
Delta R.T.: 0.000 min
Response: 25717676
Conc: 23.24 ng/ml



#31 AR-1260-1

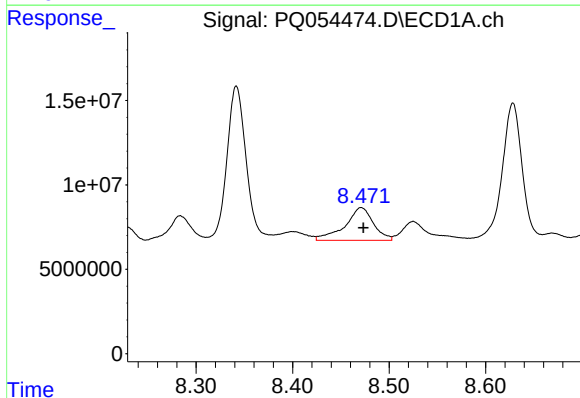
R.T.: 8.211 min
Delta R.T.: 0.000 min
Response: 25114653
Conc: 25.31 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



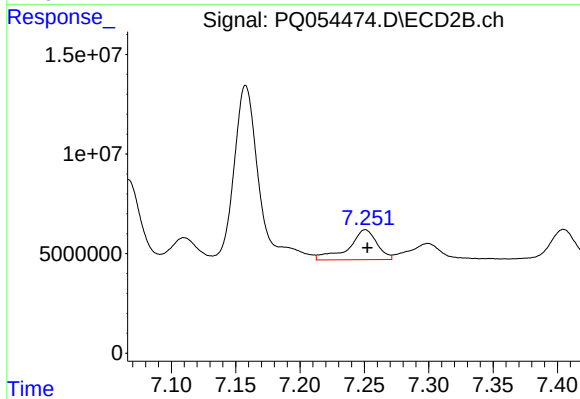
#31 AR-1260-1

R.T.: 7.067 min
Delta R.T.: 0.011 min
Response: 78220109
Conc: 104.16 ng/ml



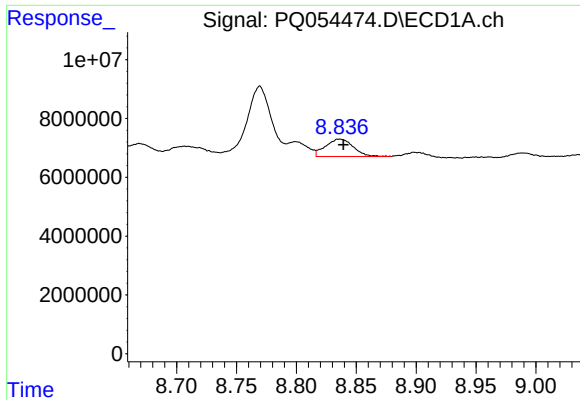
#32 AR-1260-2

R.T.: 8.471 min
Delta R.T.: -0.002 min
Response: 39667759
Conc: 33.71 ng/ml



#32 AR-1260-2

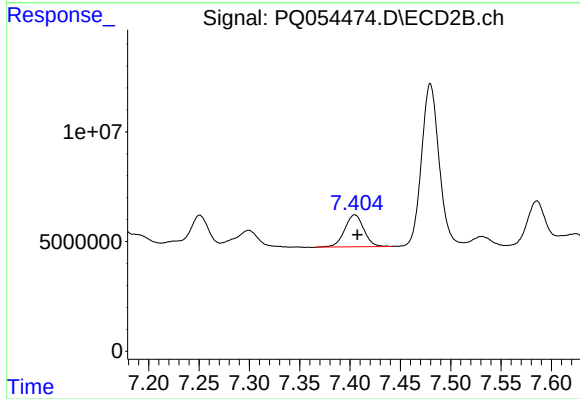
R.T.: 7.251 min
Delta R.T.: -0.002 min
Response: 23089928
Conc: 22.31 ng/ml



#33 AR-1260-3

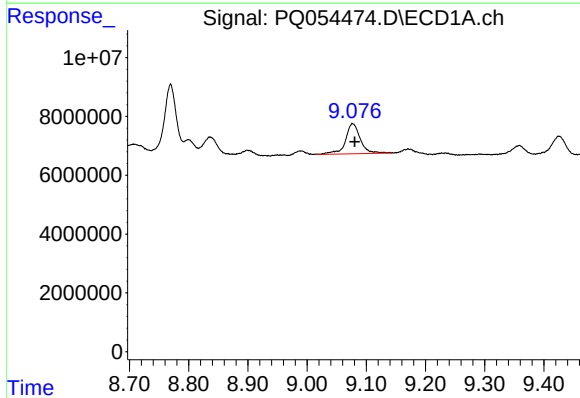
R.T.: 8.836 min
Delta R.T.: -0.003 min
Response: 9551304
Conc: 12.47 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



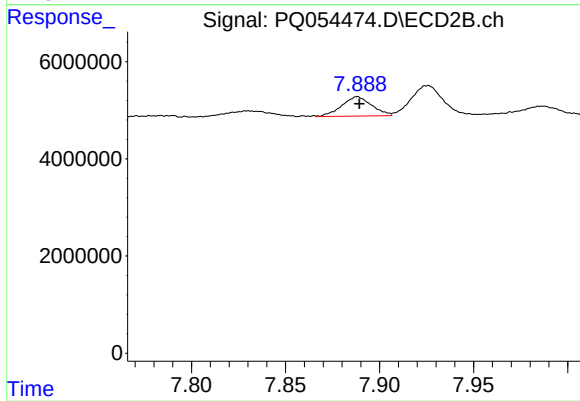
#33 AR-1260-3

R.T.: 7.405 min
Delta R.T.: -0.003 min
Response: 19396611
Conc: 21.94 ng/ml



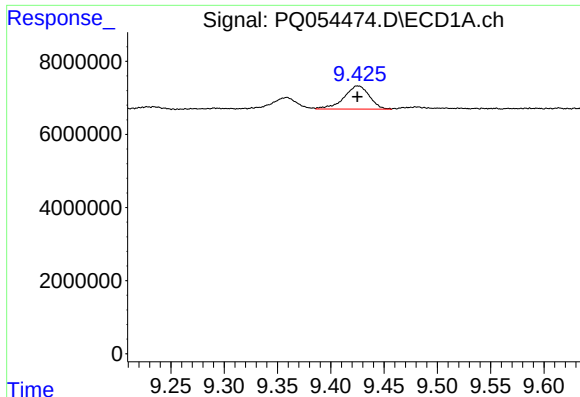
#34 AR-1260-4

R.T.: 9.077 min
Delta R.T.: -0.004 min
Response: 17918278
Conc: 19.18 ng/ml



#34 AR-1260-4

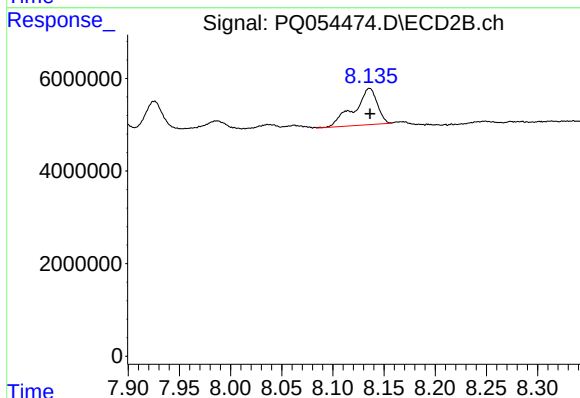
R.T.: 7.888 min
Delta R.T.: -0.001 min
Response: 4447394
Conc: 6.43 ng/ml



#35 AR-1260-5

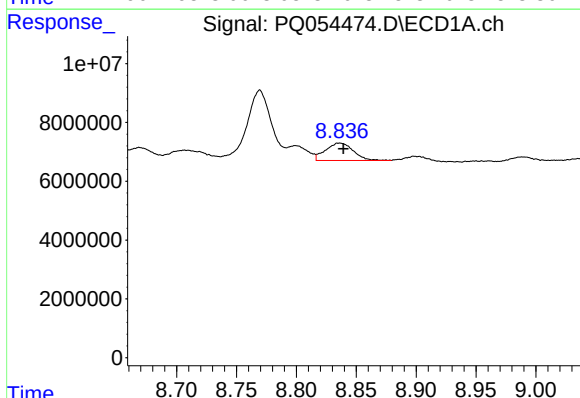
R.T.: 9.425 min
Delta R.T.: 0.000 min
Response: 10494052
Conc: 5.69 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



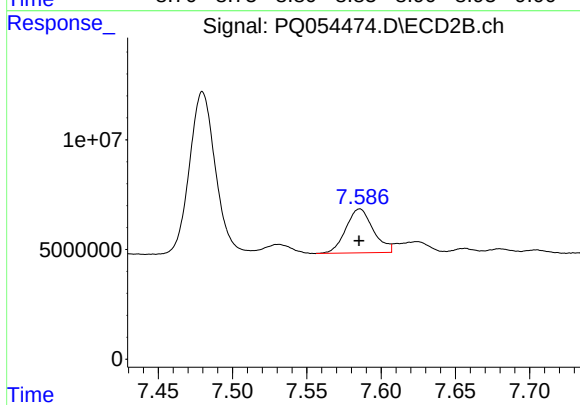
#35 AR-1260-5

R.T.: 8.136 min
Delta R.T.: 0.000 min
Response: 12310744
Conc: 6.44 ng/ml



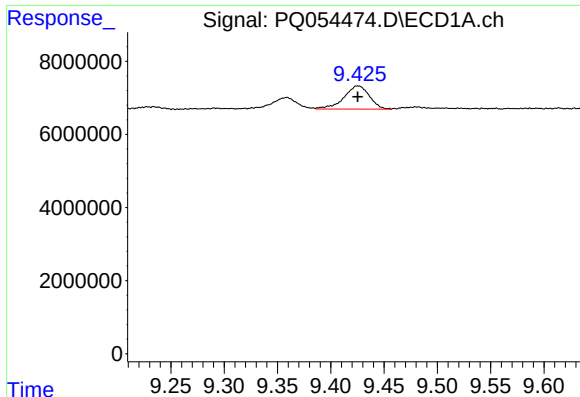
#36 AR-1262-1

R.T.: 8.836 min
Delta R.T.: -0.003 min
Response: 9551304
Conc: 8.13 ng/ml



#36 AR-1262-1

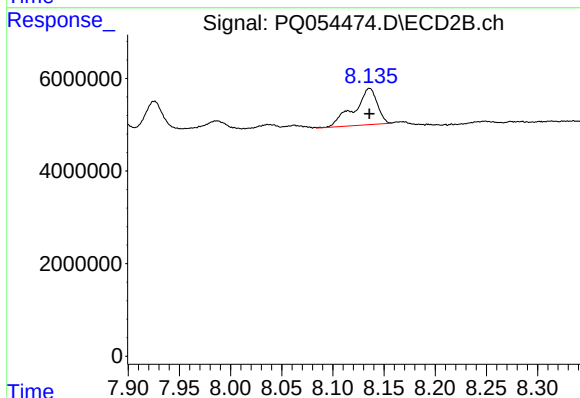
R.T.: 7.586 min
Delta R.T.: 0.000 min
Response: 25717676
Conc: 49.77 ng/ml



#37 AR-1262-2

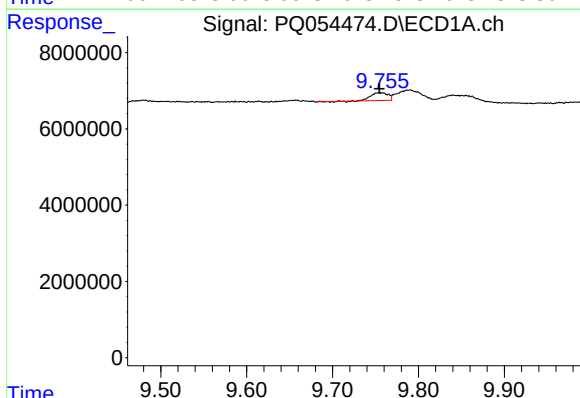
R.T.: 9.425 min
Delta R.T.: 0.000 min
Response: 10494052
Conc: 4.84 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



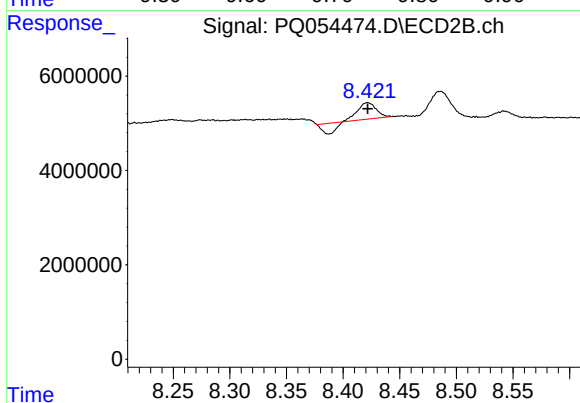
#37 AR-1262-2

R.T.: 8.136 min
Delta R.T.: 0.000 min
Response: 12310744
Conc: 5.56 ng/ml



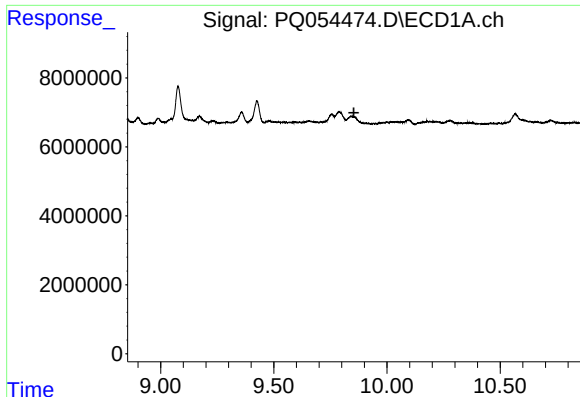
#38 AR-1262-3

R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 2710701
Conc: 3.04 ng/ml



#38 AR-1262-3

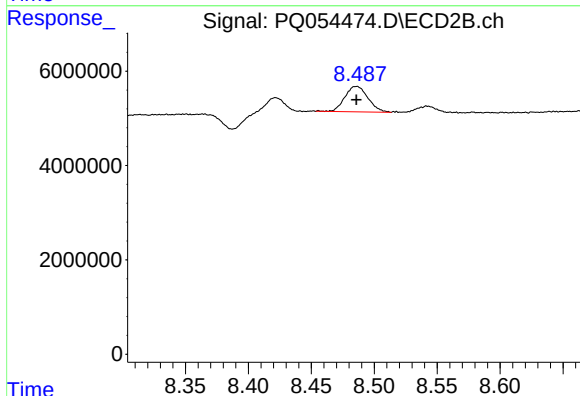
R.T.: 8.422 min
Delta R.T.: 0.000 min
Response: 2490734
Conc: 2.81 ng/ml



#39 AR-1262-4

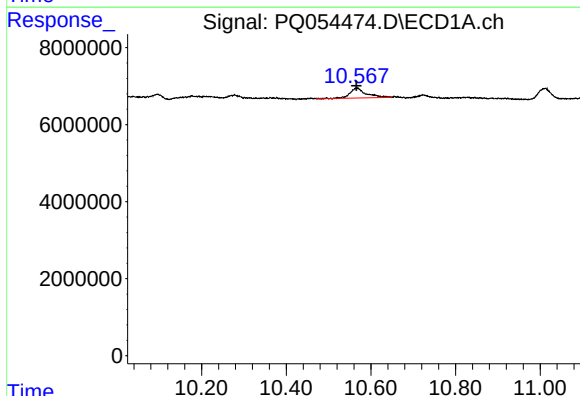
R.T.: 0.000 min
Exp R.T.: 9.854 min
Response: 0
Conc: N.D.

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



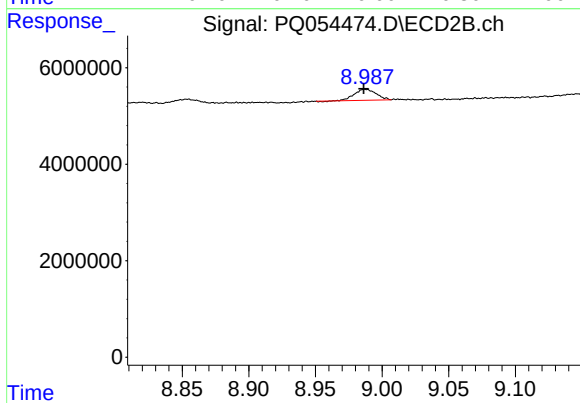
#39 AR-1262-4

R.T.: 8.486 min
Delta R.T.: 0.000 min
Response: 6915723
Conc: 4.55 ng/ml



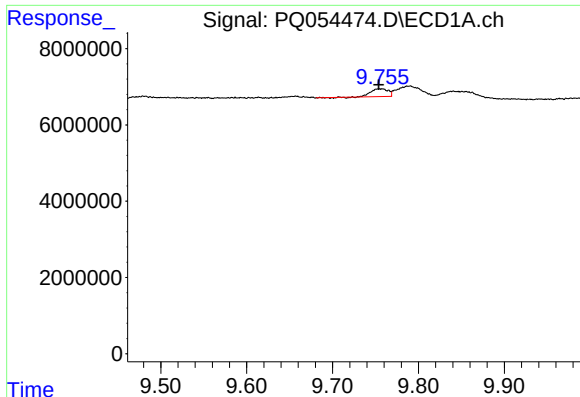
#40 AR-1262-5

R.T.: 10.567 min
Delta R.T.: 0.002 min
Response: 6844283
Conc: 8.91 ng/ml



#40 AR-1262-5

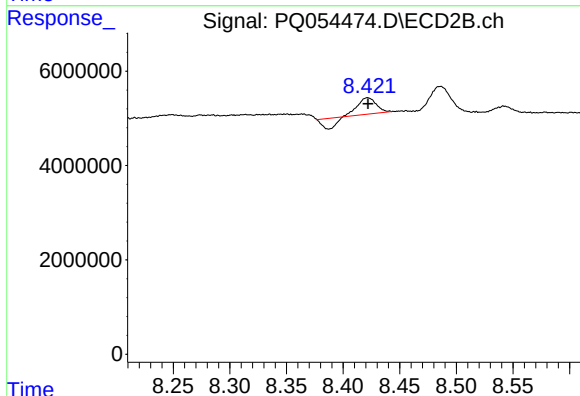
R.T.: 8.987 min
Delta R.T.: 0.001 min
Response: 2579199
Conc: 3.76 ng/ml



#41 AR-1268-1

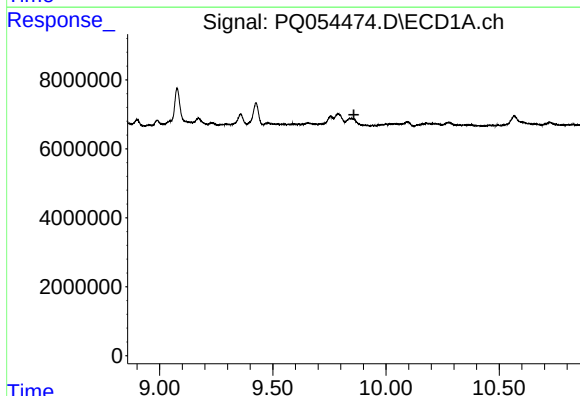
R.T.: 9.755 min
Delta R.T.: 0.000 min
Response: 2710701
Conc: 1.08 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



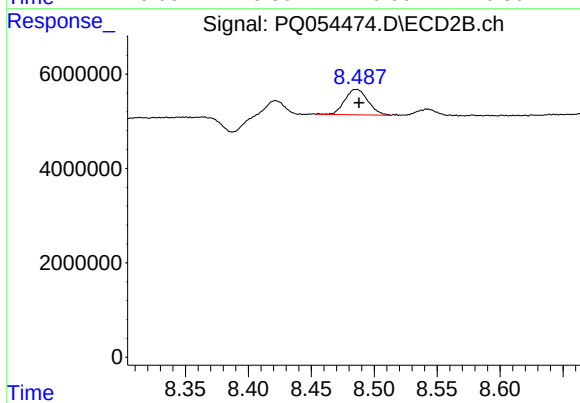
#41 AR-1268-1

R.T.: 8.422 min
Delta R.T.: 0.000 min
Response: 2490734
Conc: 0.92 ng/ml



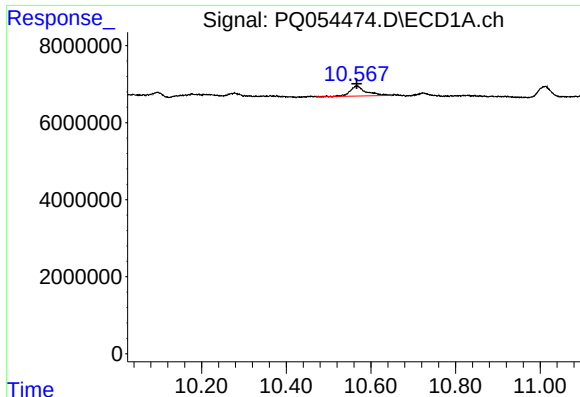
#42 AR-1268-2

R.T.: 0.000 min
Exp R.T. : 9.858 min
Response: 0
Conc: N.D.



#42 AR-1268-2

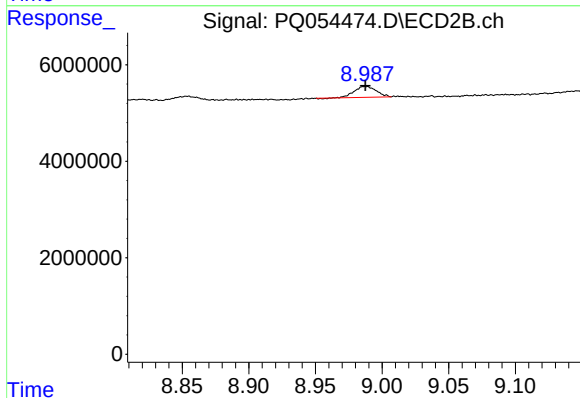
R.T.: 8.486 min
Delta R.T.: -0.002 min
Response: 6915723
Conc: 3.00 ng/ml



#44 AR-1268-4

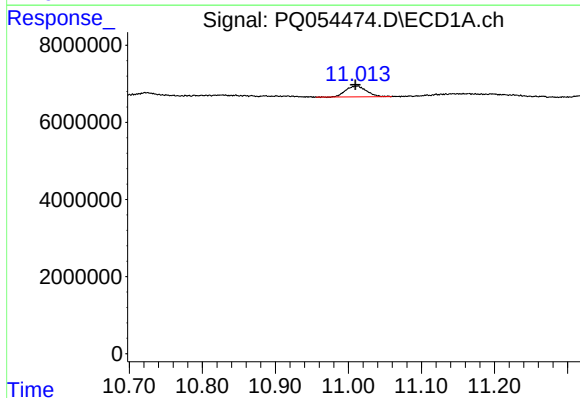
R.T.: 10.567 min
Delta R.T.: 0.000 min
Response: 6844283
Conc: 8.02 ng/ml

Instrument :
ECD_Q
ClientSampleId :
AR1248CCC500



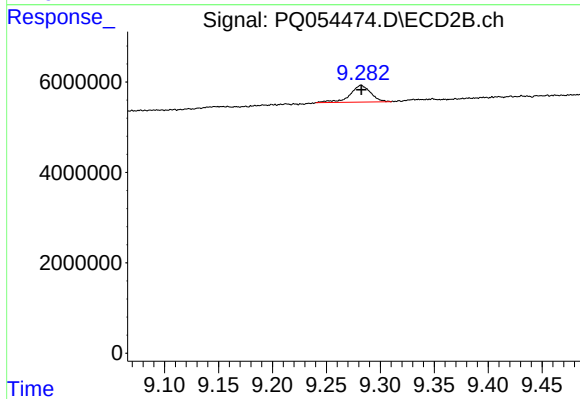
#44 AR-1268-4

R.T.: 8.987 min
Delta R.T.: 0.000 min
Response: 2579199
Conc: 3.32 ng/ml



#45 AR-1268-5

R.T.: 11.012 min
Delta R.T.: 0.003 min
Response: 5454332
Conc: 0.87 ng/ml



#45 AR-1268-5

R.T.: 9.282 min
Delta R.T.: 0.000 min
Response: 4949808
Conc: 0.86 ng/ml