

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ112224\
 Data File : PQ069566.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Nov 2024 13:54
 Operator : YP\AJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_Q
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 22 22:25:01 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ111824CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Nov 20 07:44:43 2024
 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...	3.336	2.737	156.3E6	234.3E6	21.552	21.655
2)	SA Decachlor...	8.478	7.478	113.4E6	286.2E6	41.688	42.659
Target Compounds							
3)	L1 AR-1016-1	4.427	3.728	99155020	155.3E6	444.281	426.939
4)	L1 AR-1016-2	4.446	3.743	144.3E6	228.4E6	428.552	425.281
5)	L1 AR-1016-3	4.502	3.902	89798829	124.2E6	434.884	430.039
6)	L1 AR-1016-4	4.594	3.951	75324069	101.7E6	439.937	433.699
7)	L1 AR-1016-5	4.879	4.144	72224554	127.3E6	432.425	427.862
8)	L2 AR-1221-1	3.531	2.934	11034162	15933197	138.861	125.120
9)	L2 AR-1221-2	3.613	3.010	13419432	20636040	248.690	229.718
10)	L2 AR-1221-3	3.682	3.077	54591587	83324098	300.028	292.103
11)	L3 AR-1232-1	3.682	3.077	54591587	83324098	379.513	355.508
12)	L3 AR-1232-2	4.170	3.743	74393897	228.4E6	935.365	887.415
13)	L3 AR-1232-3	4.446	3.902	144.3E6	124.2E6	994.626	934.770
14)	L3 AR-1232-4	4.594	3.988	75324069	107.8E6	1015.470	1023.449
15)	L3 AR-1232-5	4.690	4.144	57386055	127.3E6	1204.196	1000.713
16)	L4 AR-1242-1	4.427	3.728	99155020	155.3E6	575.020	488.281
17)	L4 AR-1242-2	4.446	3.743	144.3E6	228.4E6	546.948	486.339
18)	L4 AR-1242-3	4.502	3.902	89798829	124.2E6	549.244	492.636
19)	L4 AR-1242-4	4.594	3.988	75324069	107.8E6	552.629	483.443
20)	L4 AR-1242-5	5.306	4.478	20559254	127.7E6	144.657	398.245 #
21)	L5 AR-1248-1	4.427	3.728	99155020	155.3E6	796.209	636.566
22)	L5 AR-1248-2	4.690	3.951	57386055	101.7E6	333.071	300.772
23)	L5 AR-1248-3	4.879	3.988	72224554	107.8E6	341.717	329.949
24)	L5 AR-1248-4	5.271	4.144	27140119	127.3E6	116.286	307.642 #
25)	L5 AR-1248-5	5.306	4.517	20559254	34232777	85.526	77.614
26)	L6 AR-1254-1	5.243	4.478	64839133	127.7E6	267.594	202.603
27)	L6 AR-1254-2	5.461	4.625	58554987	91461315	155.820	167.026
28)	L6 AR-1254-3	5.812	5.004	33614639	54494423	80.647	59.733 #
29)	L6 AR-1254-4	6.095	5.230	23009438	29004464	72.549	46.224 #
30)	L6 AR-1254-5	6.508	5.632	183.6E6	345.2E6	539.361	413.856
31)	L7 AR-1260-1	5.977	5.132	127.9E6	236.1E6	417.347	424.026
32)	L7 AR-1260-2	6.237	5.323	156.4E6	290.5E6	415.892	423.062
33)	L7 AR-1260-3	6.590	5.462	114.7E6	279.9E6	412.938	425.243
34)	L7 AR-1260-4	6.807	5.922	131.6E6	242.1E6	422.078	421.883
35)	L7 AR-1260-5	7.119	6.168	267.5E6	567.0E6	412.565	417.967
36)	L8 AR-1262-1	6.807	5.676	131.6E6	253.7E6	351.866	284.345
37)	L8 AR-1262-2	7.119	5.922	267.5E6	242.1E6	374.075	291.963
38)	L8 AR-1262-3	7.396	6.444	166.6E6	138.0E6	360.812	206.233 #
39)	L8 AR-1262-4	7.466	6.502	102.8E6	443.0E6	301.482	353.787
40)	L8 AR-1262-5	7.972	6.996	70483331	169.1E6	311.535	284.787
41)	L9 AR-1268-1	7.396	6.444	166.6E6	138.0E6	220.425	73.985 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ112224\
Data File : PQ069566.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Nov 2024 13:54
Operator : YP\AJ
Sample : AR1660CCC400
Misc :
ALS Vial : 3 Sample Multiplier: 1

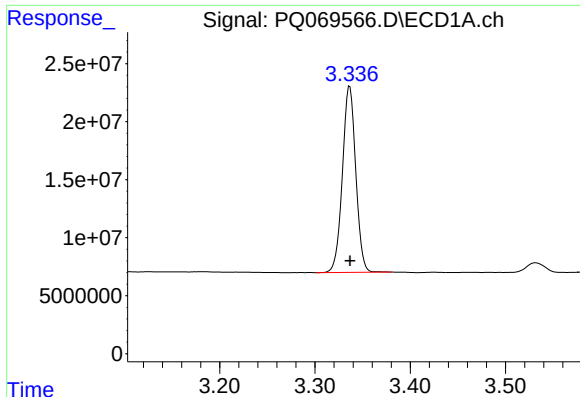
Instrument :
ECD_Q
ClientSampleId :

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 22 22:25:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ111824CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Nov 20 07:44:43 2024
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	7.466	6.502	102.8E6	443.0E6	149.489	251.019 #
43) L9	AR-1268-3	7.650	6.705	3622659	8355213	6.379	5.531
44) L9	AR-1268-4	7.972	6.996	70483331	169.1E6	292.892	263.022
45) L9	AR-1268-5	8.254	7.264	17488942	50271283	9.761	10.417

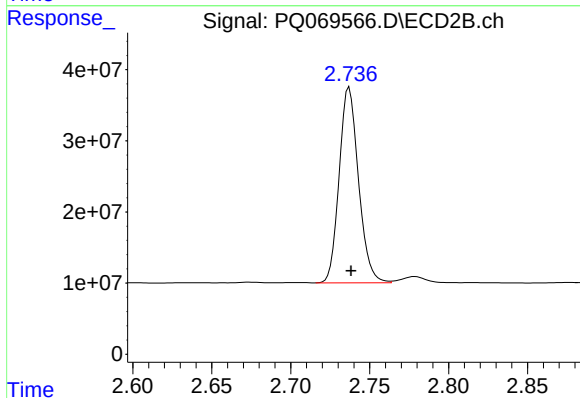
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



#1 Tetrachloro-m-xylene

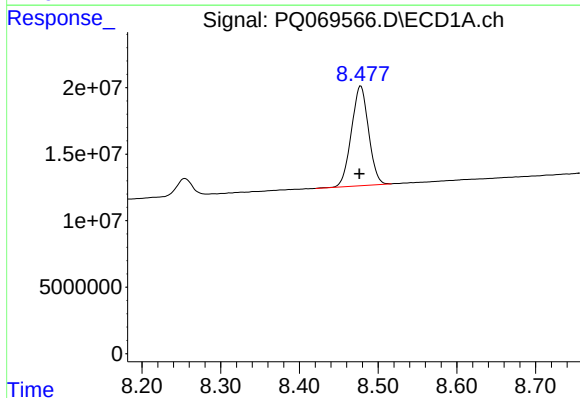
R.T.: 3.336 min
Delta R.T.: 0.000 min
Response: 156347667
Conc: 21.55 ng/ml

Instrument :
ECD_Q
ClientSampleId :



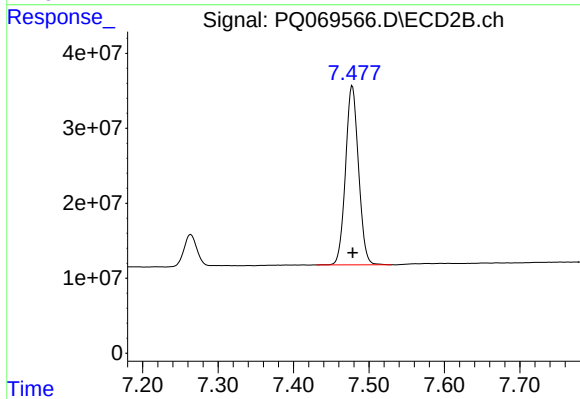
#1 Tetrachloro-m-xylene

R.T.: 2.737 min
Delta R.T.: -0.001 min
Response: 234282885
Conc: 21.66 ng/ml



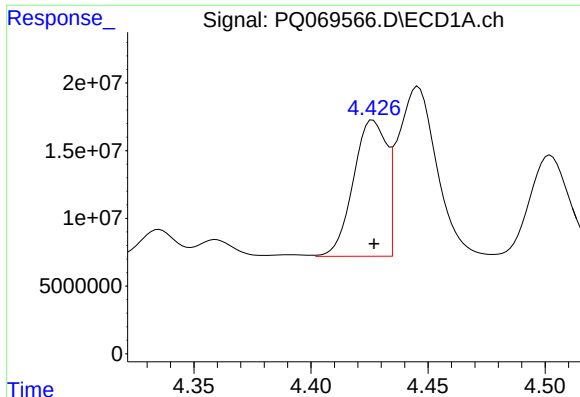
#2 Decachlorobiphenyl

R.T.: 8.478 min
Delta R.T.: 0.002 min
Response: 113420809
Conc: 41.69 ng/ml



#2 Decachlorobiphenyl

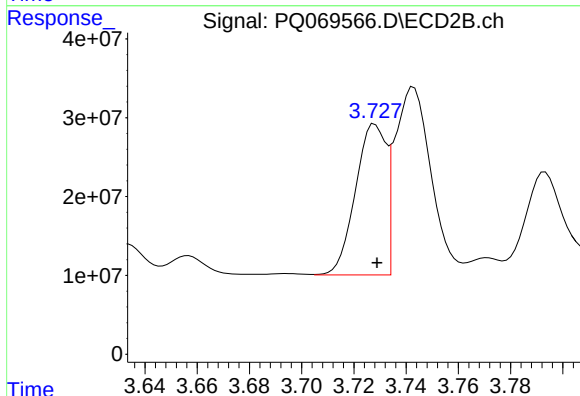
R.T.: 7.478 min
Delta R.T.: 0.000 min
Response: 286234048
Conc: 42.66 ng/ml



#3 AR-1016-1

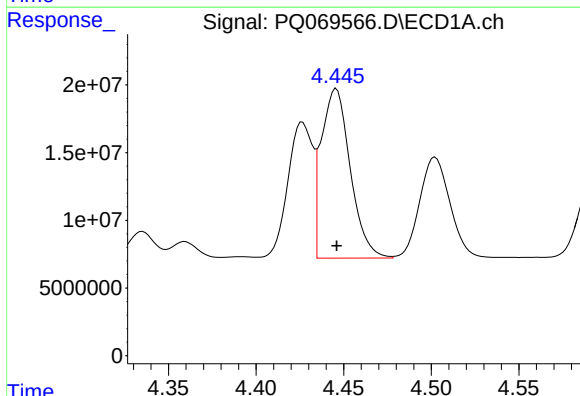
R.T.: 4.427 min
Delta R.T.: 0.000 min
Response: 99155020
Conc: 444.28 ng/ml

Instrument :
ECD_Q
ClientSampleId :



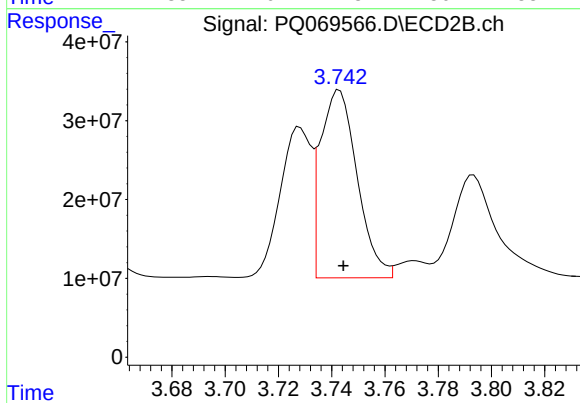
#3 AR-1016-1

R.T.: 3.728 min
Delta R.T.: 0.000 min
Response: 155307726
Conc: 426.94 ng/ml



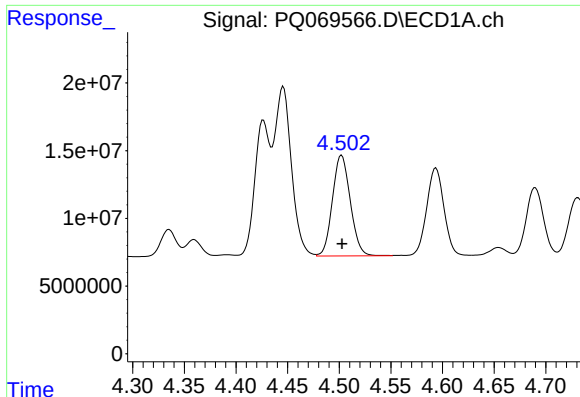
#4 AR-1016-2

R.T.: 4.446 min
Delta R.T.: 0.000 min
Response: 144257794
Conc: 428.55 ng/ml



#4 AR-1016-2

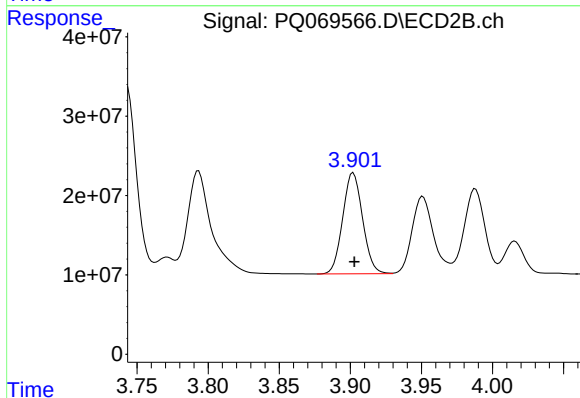
R.T.: 3.743 min
Delta R.T.: -0.001 min
Response: 228439503
Conc: 425.28 ng/ml



#5 AR-1016-3

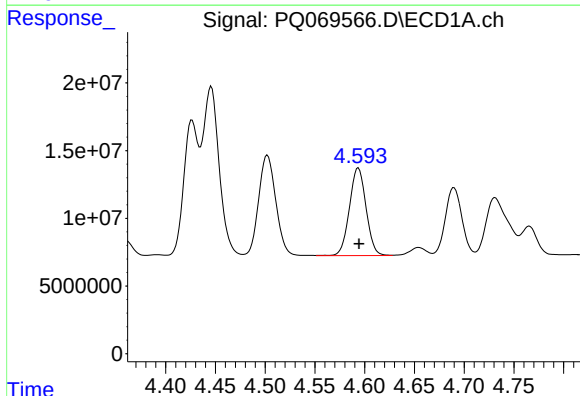
R.T.: 4.502 min
Delta R.T.: 0.000 min
Response: 89798829
Conc: 434.88 ng/ml

Instrument :
ECD_Q
ClientSampleId :



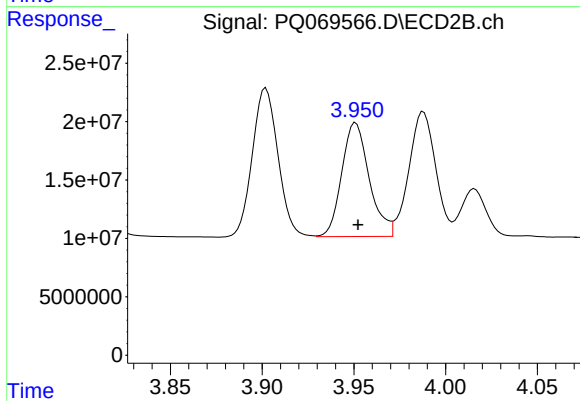
#5 AR-1016-3

R.T.: 3.902 min
Delta R.T.: 0.000 min
Response: 124243816
Conc: 430.04 ng/ml



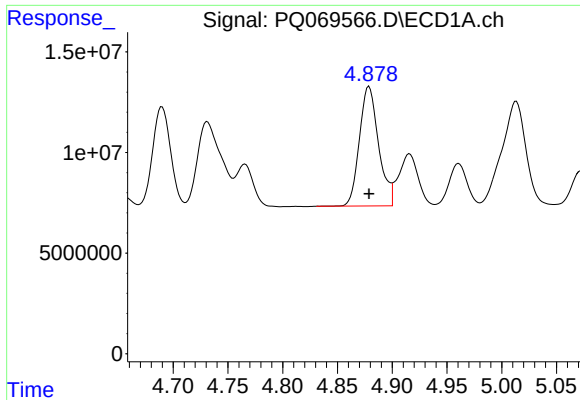
#6 AR-1016-4

R.T.: 4.594 min
Delta R.T.: 0.000 min
Response: 75324069
Conc: 439.94 ng/ml



#6 AR-1016-4

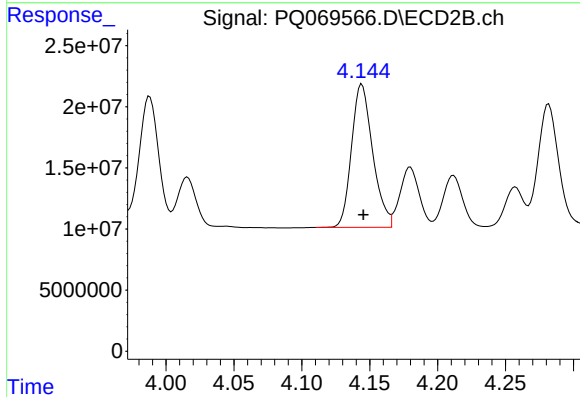
R.T.: 3.951 min
Delta R.T.: -0.001 min
Response: 101709103
Conc: 433.70 ng/ml



#7 AR-1016-5

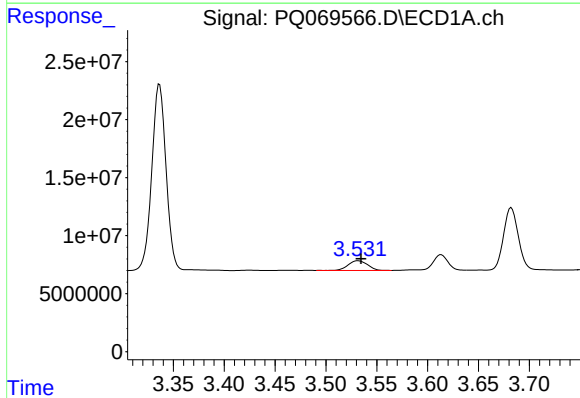
R.T.: 4.879 min
Delta R.T.: 0.000 min
Response: 72224554
Conc: 432.43 ng/ml

Instrument :
ECD_Q
ClientSampleId :



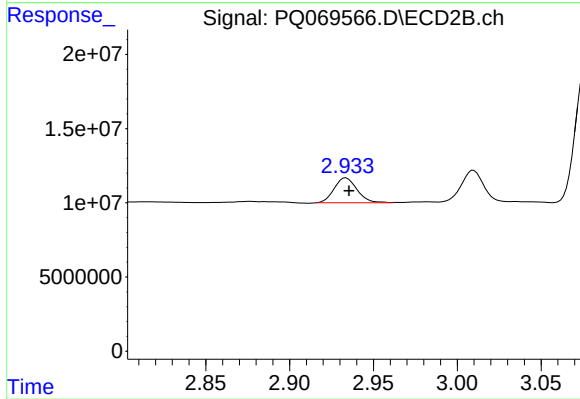
#7 AR-1016-5

R.T.: 4.144 min
Delta R.T.: -0.001 min
Response: 127315169
Conc: 427.86 ng/ml



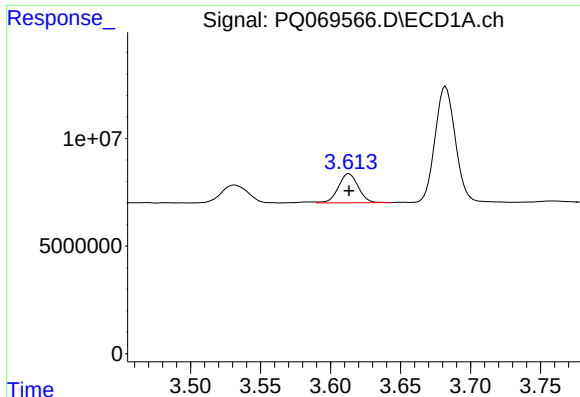
#8 AR-1221-1

R.T.: 3.531 min
Delta R.T.: -0.003 min
Response: 11034162
Conc: 138.86 ng/ml



#8 AR-1221-1

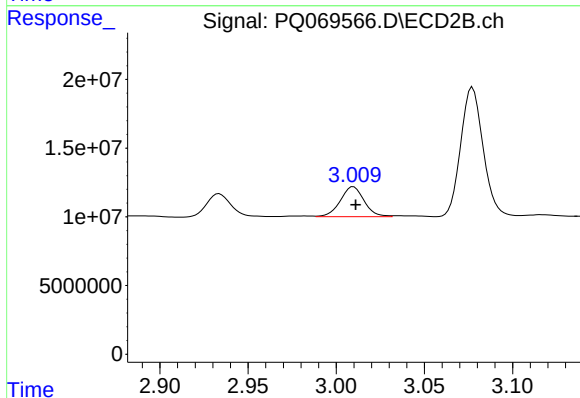
R.T.: 2.934 min
Delta R.T.: -0.002 min
Response: 15933197
Conc: 125.12 ng/ml



#9 AR-1221-2

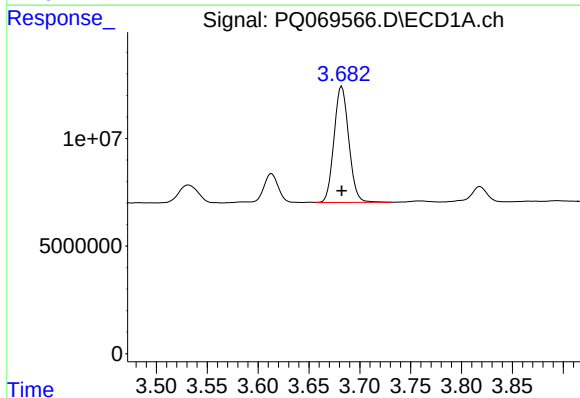
R.T.: 3.613 min
Delta R.T.: 0.000 min
Response: 13419432
Conc: 248.69 ng/ml

Instrument :
ECD_Q
ClientSampleId :



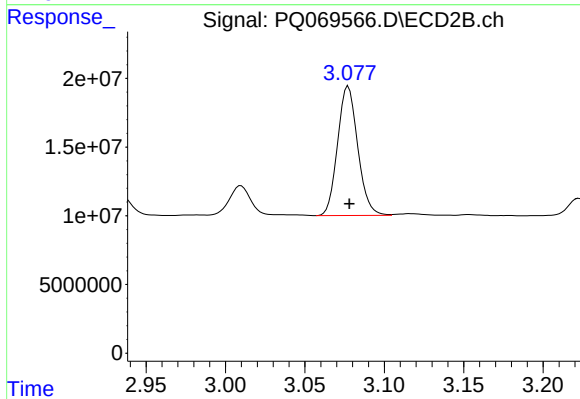
#9 AR-1221-2

R.T.: 3.010 min
Delta R.T.: -0.001 min
Response: 20636040
Conc: 229.72 ng/ml



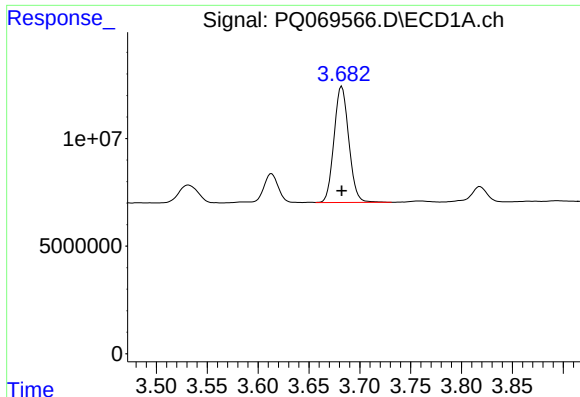
#10 AR-1221-3

R.T.: 3.682 min
Delta R.T.: 0.000 min
Response: 54591587
Conc: 300.03 ng/ml



#10 AR-1221-3

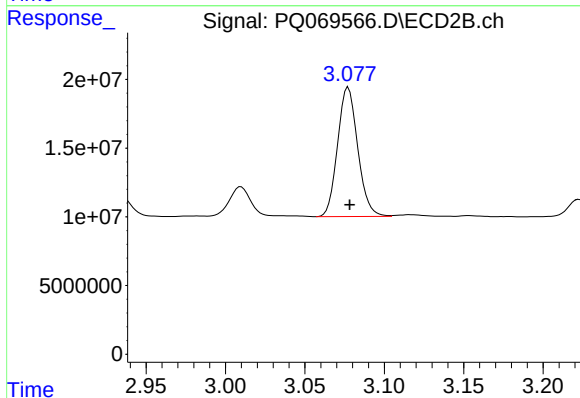
R.T.: 3.077 min
Delta R.T.: 0.000 min
Response: 83324098
Conc: 292.10 ng/ml



#11 AR-1232-1

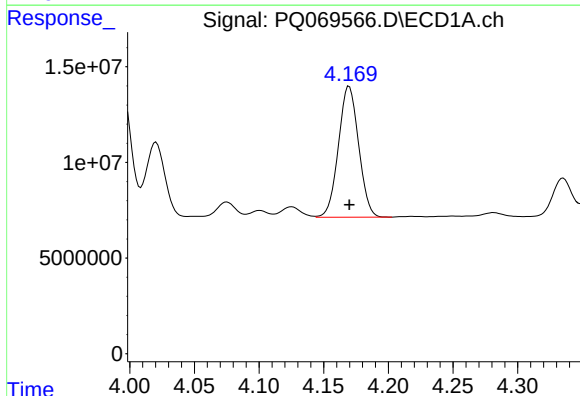
R.T.: 3.682 min
Delta R.T.: 0.000 min
Response: 54591587
Conc: 379.51 ng/ml

Instrument :
ECD_Q
ClientSampleId :



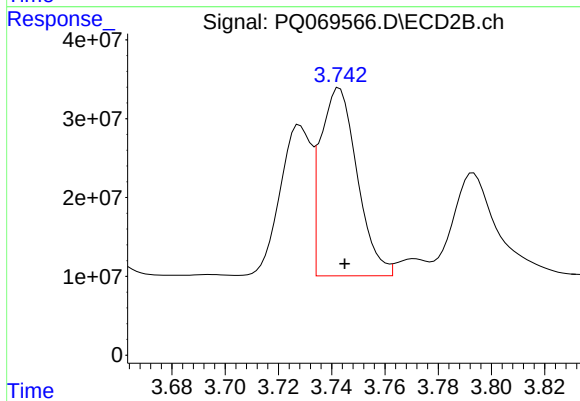
#11 AR-1232-1

R.T.: 3.077 min
Delta R.T.: -0.001 min
Response: 83324098
Conc: 355.51 ng/ml



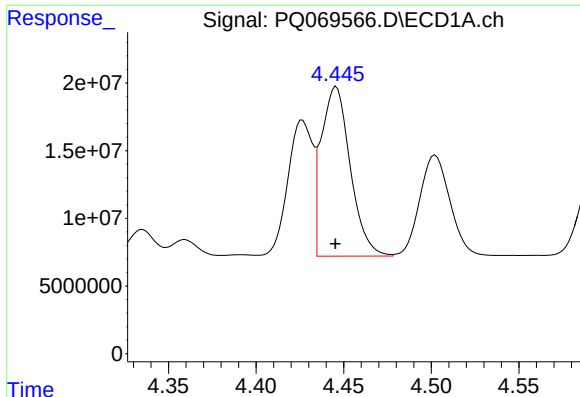
#12 AR-1232-2

R.T.: 4.170 min
Delta R.T.: 0.000 min
Response: 74393897
Conc: 935.37 ng/ml



#12 AR-1232-2

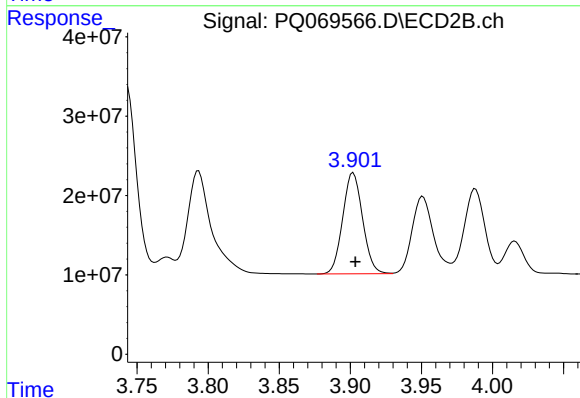
R.T.: 3.743 min
Delta R.T.: -0.002 min
Response: 228439503
Conc: 887.41 ng/ml



#13 AR-1232-3

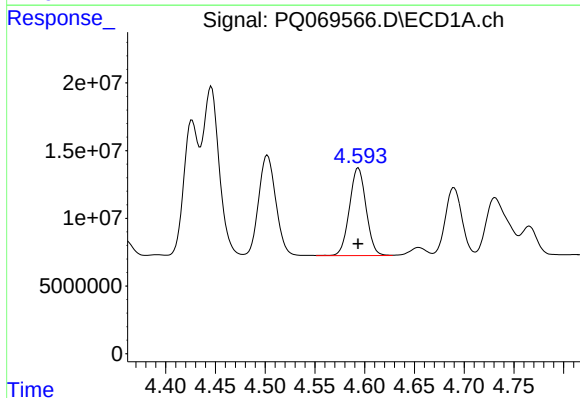
R.T.: 4.446 min
Delta R.T.: 0.000 min
Response: 144257794
Conc: 994.63 ng/ml

Instrument :
ECD_Q
ClientSampleId :



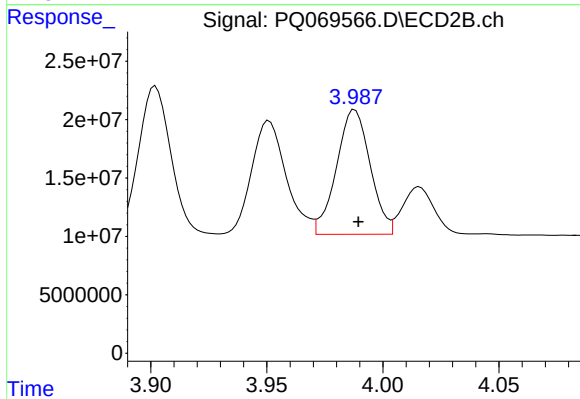
#13 AR-1232-3

R.T.: 3.902 min
Delta R.T.: -0.001 min
Response: 124243816
Conc: 934.77 ng/ml



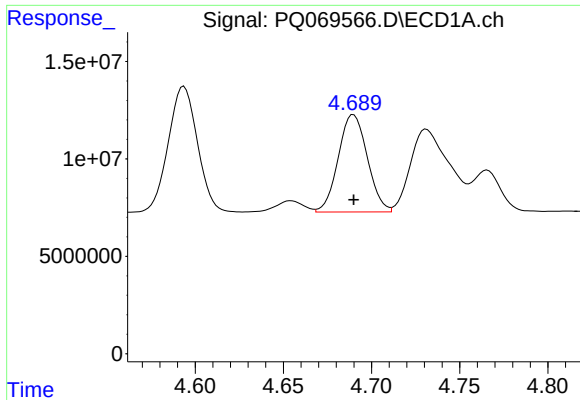
#14 AR-1232-4

R.T.: 4.594 min
Delta R.T.: 0.000 min
Response: 75324069
Conc: 1015.47 ng/ml



#14 AR-1232-4

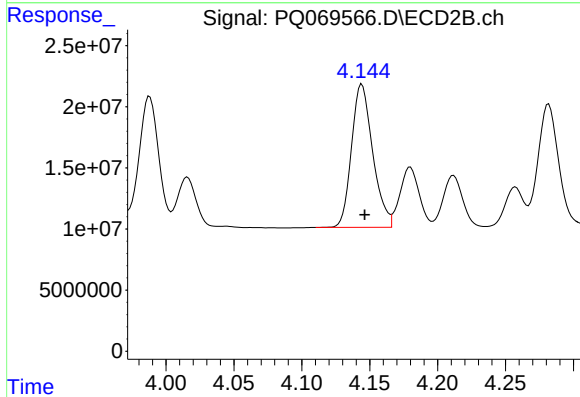
R.T.: 3.988 min
Delta R.T.: -0.002 min
Response: 107849330
Conc: 1023.45 ng/ml



#15 AR-1232-5

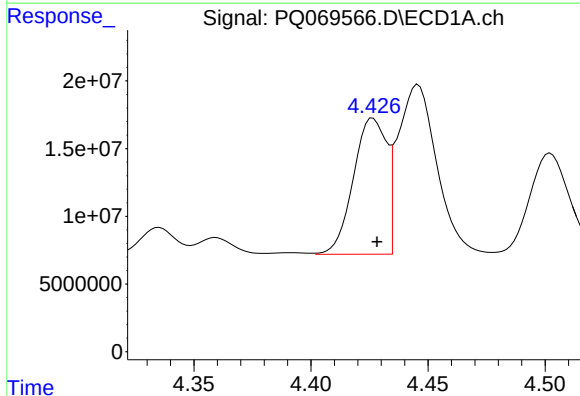
R.T.: 4.690 min
Delta R.T.: 0.000 min
Response: 57386055
Conc: 1204.20 ng/ml

Instrument :
ECD_Q
ClientSampleId :



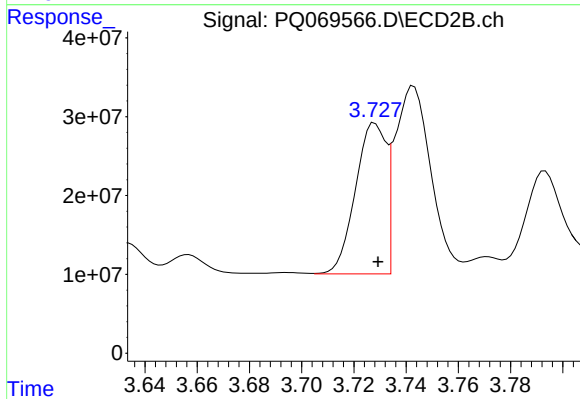
#15 AR-1232-5

R.T.: 4.144 min
Delta R.T.: -0.002 min
Response: 127315169
Conc: 1000.71 ng/ml



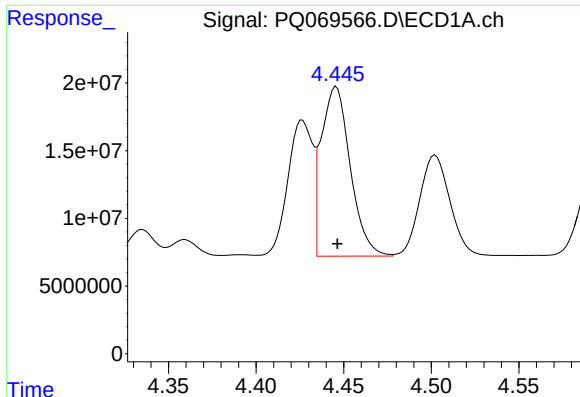
#16 AR-1242-1

R.T.: 4.427 min
Delta R.T.: -0.002 min
Response: 99155020
Conc: 575.02 ng/ml



#16 AR-1242-1

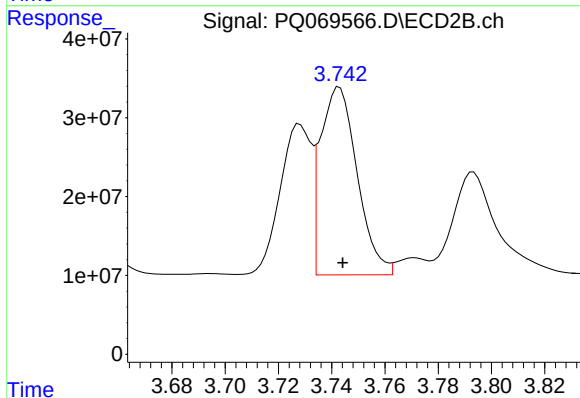
R.T.: 3.728 min
Delta R.T.: -0.001 min
Response: 155307726
Conc: 488.28 ng/ml



#17 AR-1242-2

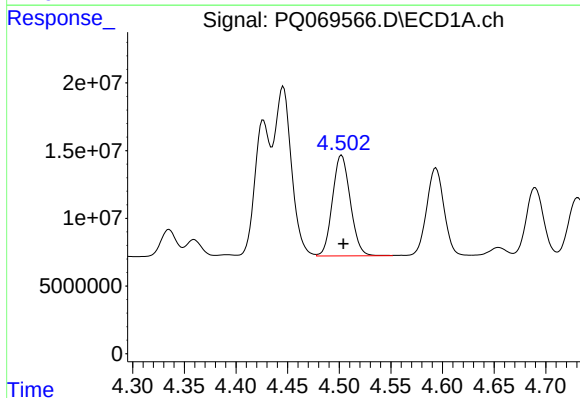
R.T.: 4.446 min
Delta R.T.: 0.000 min
Response: 144257794
Conc: 546.95 ng/ml

Instrument :
ECD_Q
ClientSampleId :



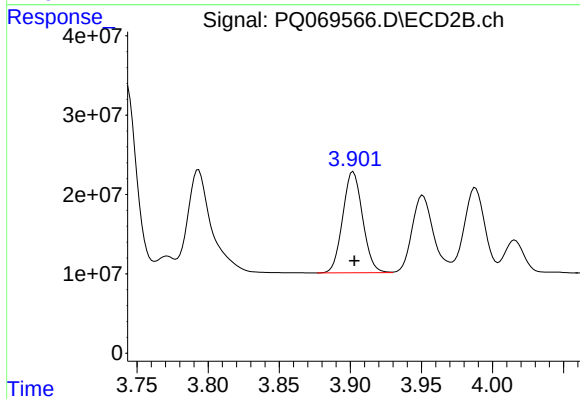
#17 AR-1242-2

R.T.: 3.743 min
Delta R.T.: -0.001 min
Response: 228439503
Conc: 486.34 ng/ml



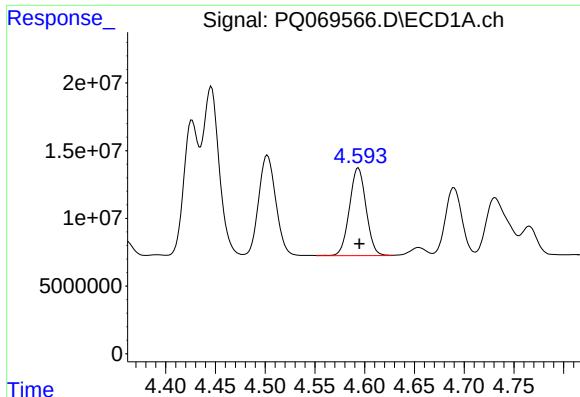
#18 AR-1242-3

R.T.: 4.502 min
Delta R.T.: -0.002 min
Response: 89798829
Conc: 549.24 ng/ml



#18 AR-1242-3

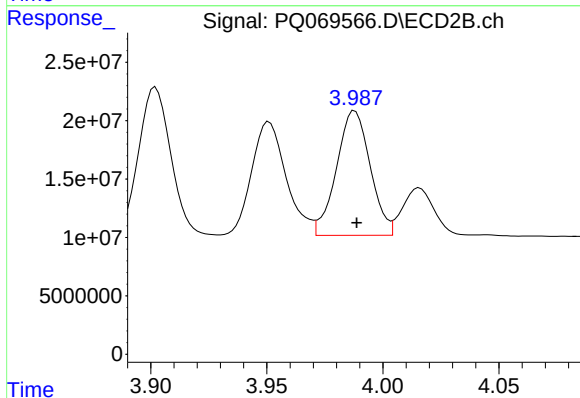
R.T.: 3.902 min
Delta R.T.: 0.000 min
Response: 124243816
Conc: 492.64 ng/ml



#19 AR-1242-4

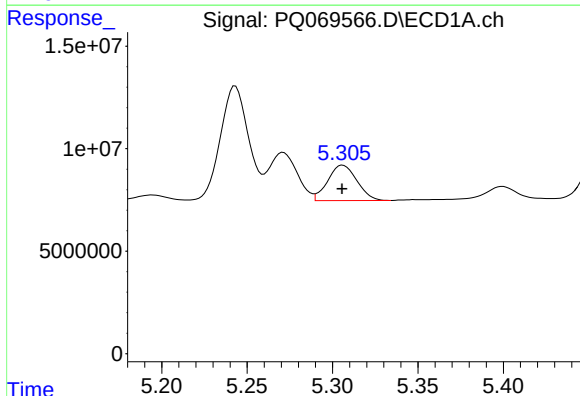
R.T.: 4.594 min
Delta R.T.: 0.000 min
Response: 75324069
Conc: 552.63 ng/ml

Instrument :
ECD_Q
ClientSampleId :



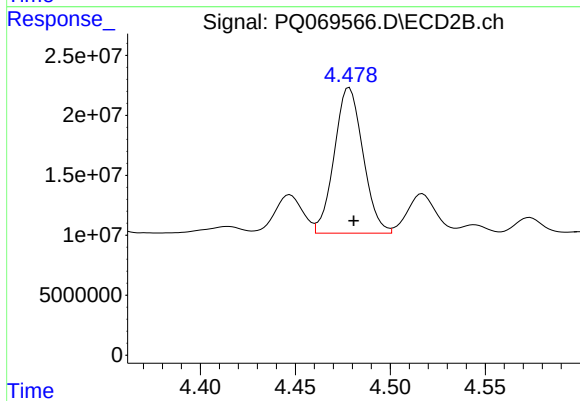
#19 AR-1242-4

R.T.: 3.988 min
Delta R.T.: 0.000 min
Response: 107849330
Conc: 483.44 ng/ml



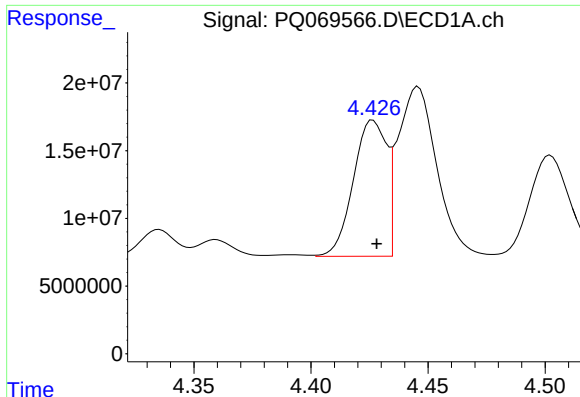
#20 AR-1242-5

R.T.: 5.306 min
Delta R.T.: 0.000 min
Response: 20559254
Conc: 144.66 ng/ml



#20 AR-1242-5

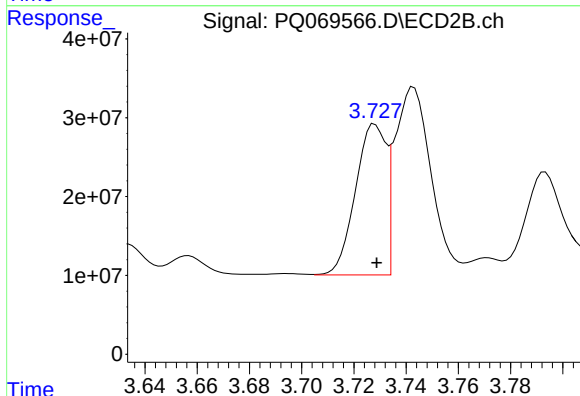
R.T.: 4.478 min
Delta R.T.: -0.002 min
Response: 127748871
Conc: 398.24 ng/ml



#21 AR-1248-1

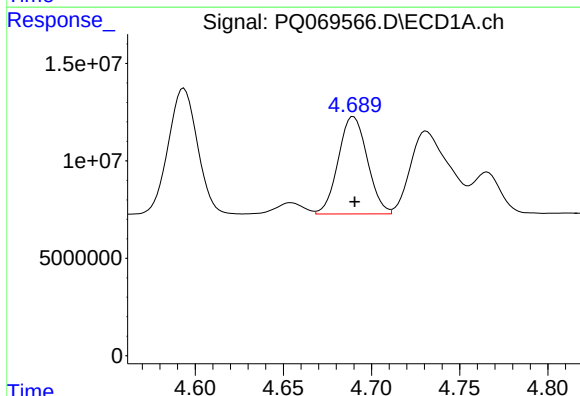
R.T.: 4.427 min
Delta R.T.: -0.002 min
Response: 99155020
Conc: 796.21 ng/ml

Instrument :
ECD_Q
ClientSampleId :



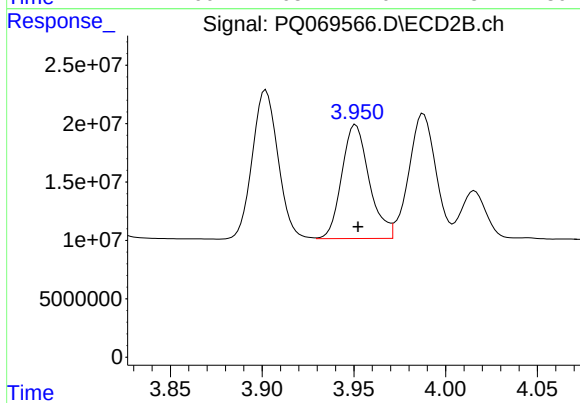
#21 AR-1248-1

R.T.: 3.728 min
Delta R.T.: 0.000 min
Response: 155307726
Conc: 636.57 ng/ml



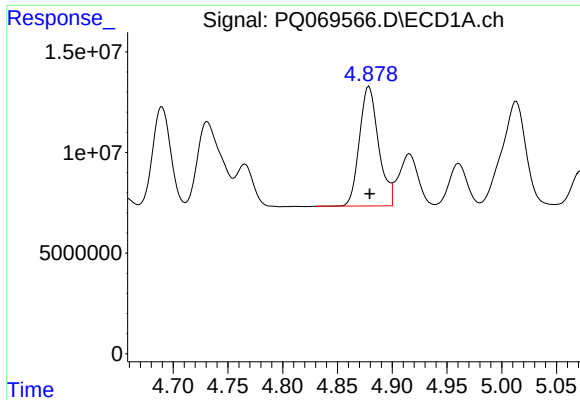
#22 AR-1248-2

R.T.: 4.690 min
Delta R.T.: 0.000 min
Response: 57386055
Conc: 333.07 ng/ml



#22 AR-1248-2

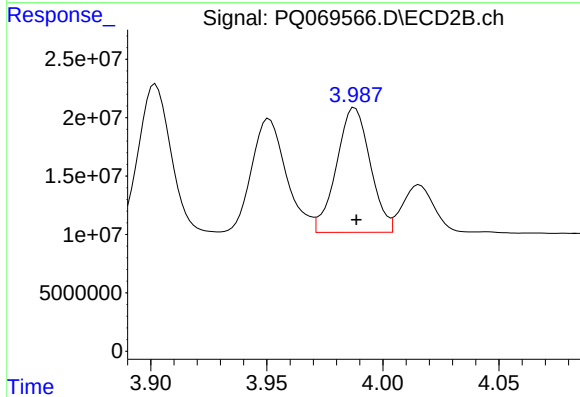
R.T.: 3.951 min
Delta R.T.: -0.001 min
Response: 101709103
Conc: 300.77 ng/ml



#23 AR-1248-3

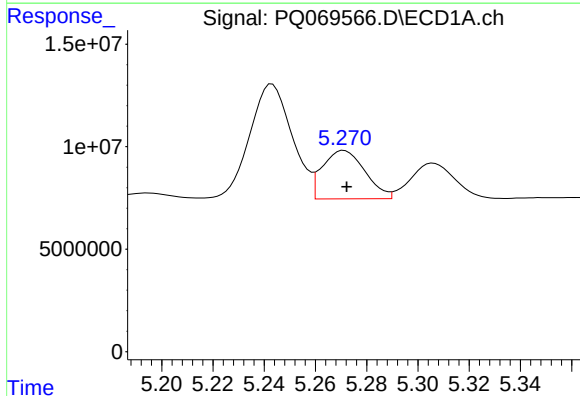
R.T.: 4.879 min
Delta R.T.: 0.000 min
Response: 72224554
Conc: 341.72 ng/ml

Instrument :
ECD_Q
ClientSampleId :



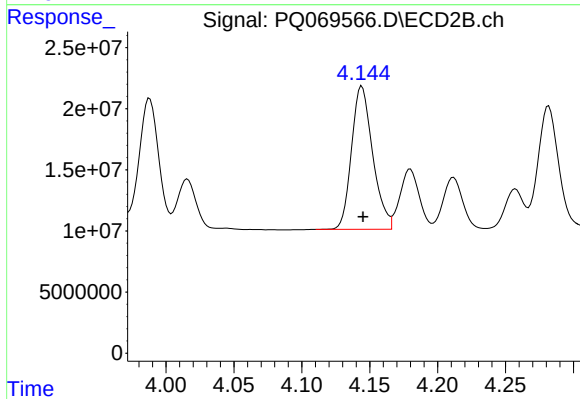
#23 AR-1248-3

R.T.: 3.988 min
Delta R.T.: 0.000 min
Response: 107849330
Conc: 329.95 ng/ml



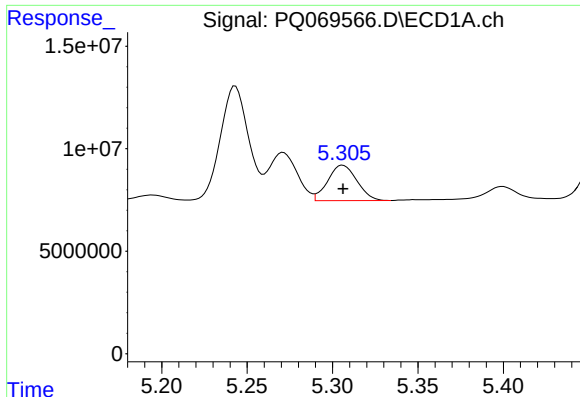
#24 AR-1248-4

R.T.: 5.271 min
Delta R.T.: -0.001 min
Response: 27140119
Conc: 116.29 ng/ml



#24 AR-1248-4

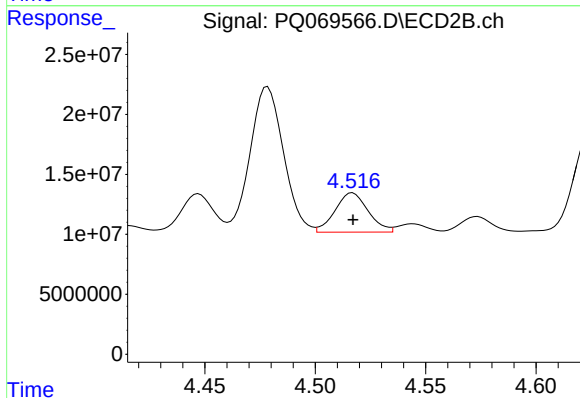
R.T.: 4.144 min
Delta R.T.: 0.000 min
Response: 127315169
Conc: 307.64 ng/ml



#25 AR-1248-5

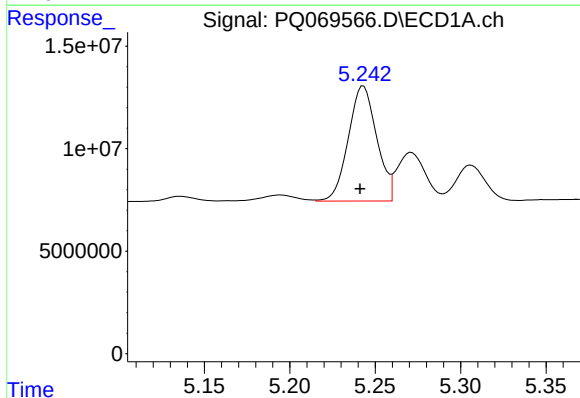
R.T.: 5.306 min
Delta R.T.: 0.000 min
Response: 20559254
Conc: 85.53 ng/ml

Instrument :
ECD_Q
ClientSampleId :



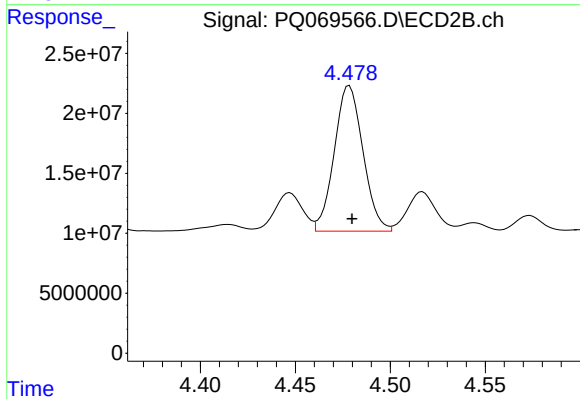
#25 AR-1248-5

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 34232777
Conc: 77.61 ng/ml



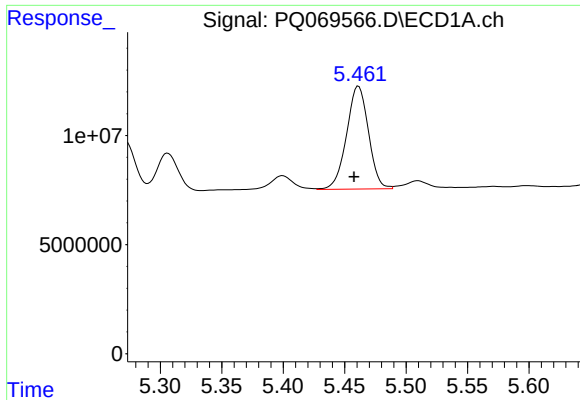
#26 AR-1254-1

R.T.: 5.243 min
Delta R.T.: 0.002 min
Response: 64839133
Conc: 267.59 ng/ml



#26 AR-1254-1

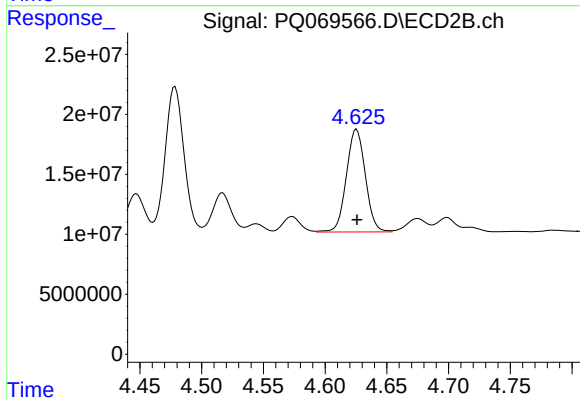
R.T.: 4.478 min
Delta R.T.: -0.001 min
Response: 127748871
Conc: 202.60 ng/ml



#27 AR-1254-2

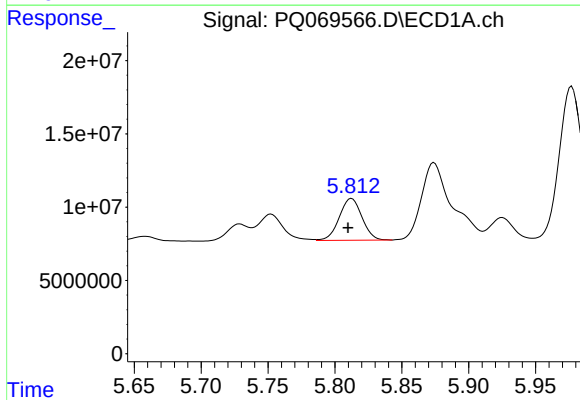
R.T.: 5.461 min
Delta R.T.: 0.003 min
Response: 58554987
Conc: 155.82 ng/ml

Instrument :
ECD_Q
ClientSampleId :



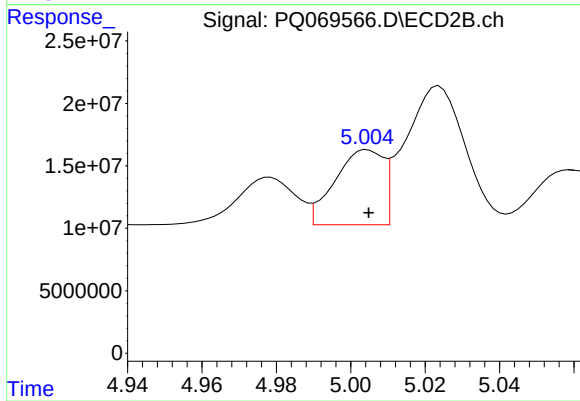
#27 AR-1254-2

R.T.: 4.625 min
Delta R.T.: 0.000 min
Response: 91461315
Conc: 167.03 ng/ml



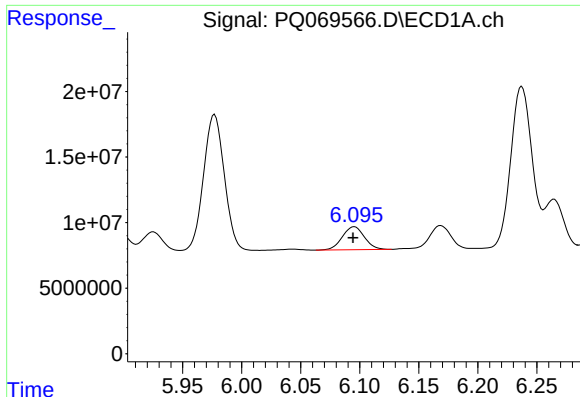
#28 AR-1254-3

R.T.: 5.812 min
Delta R.T.: 0.003 min
Response: 33614639
Conc: 80.65 ng/ml



#28 AR-1254-3

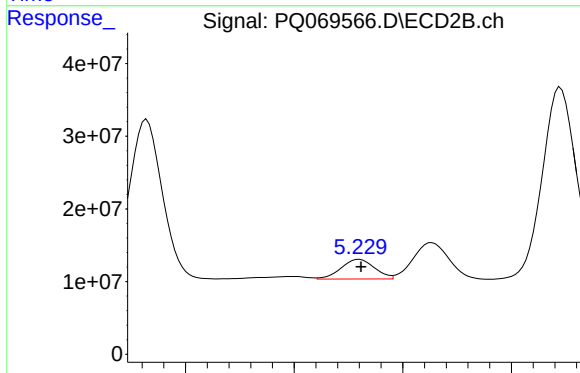
R.T.: 5.004 min
Delta R.T.: 0.000 min
Response: 54494423
Conc: 59.73 ng/ml



#29 AR-1254-4

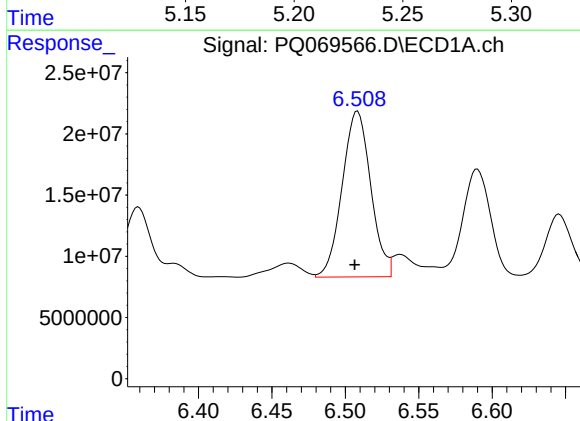
R.T.: 6.095 min
Delta R.T.: 0.001 min
Response: 23009438
Conc: 72.55 ng/ml

Instrument :
ECD_Q
ClientSampleId :



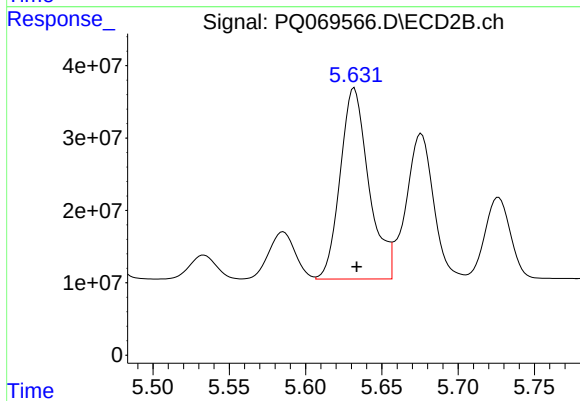
#29 AR-1254-4

R.T.: 5.230 min
Delta R.T.: 0.000 min
Response: 29004464
Conc: 46.22 ng/ml



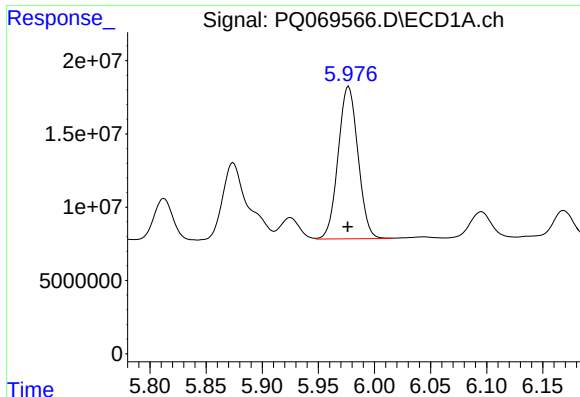
#30 AR-1254-5

R.T.: 6.508 min
Delta R.T.: 0.002 min
Response: 183597177
Conc: 539.36 ng/ml



#30 AR-1254-5

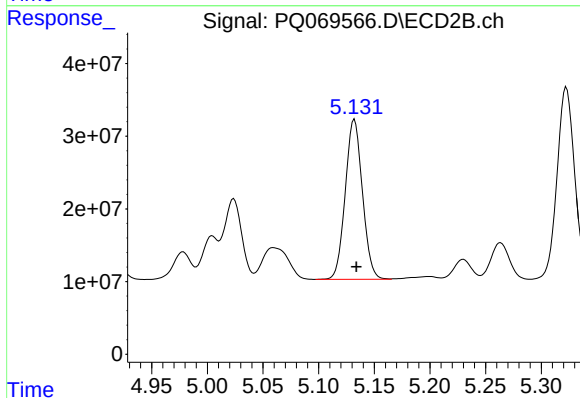
R.T.: 5.632 min
Delta R.T.: -0.002 min
Response: 345168483
Conc: 413.86 ng/ml



#31 AR-1260-1

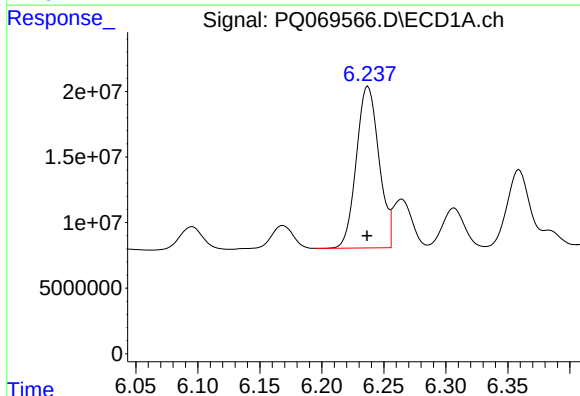
R.T.: 5.977 min
Delta R.T.: 0.000 min
Response: 127907051
Conc: 417.35 ng/ml

Instrument :
ECD_Q
ClientSampleId :



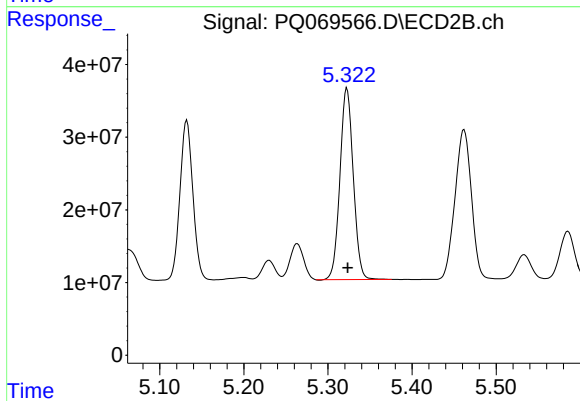
#31 AR-1260-1

R.T.: 5.132 min
Delta R.T.: -0.002 min
Response: 236084252
Conc: 424.03 ng/ml



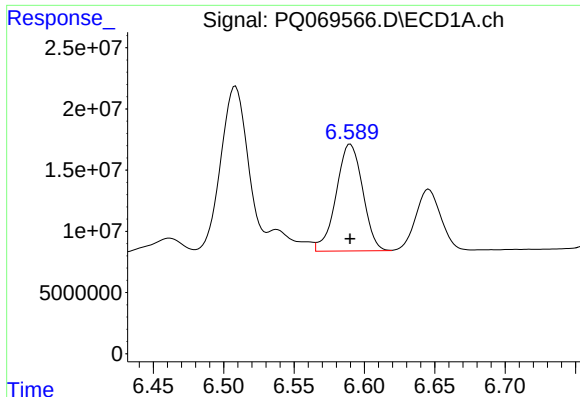
#32 AR-1260-2

R.T.: 6.237 min
Delta R.T.: 0.000 min
Response: 156447026
Conc: 415.89 ng/ml



#32 AR-1260-2

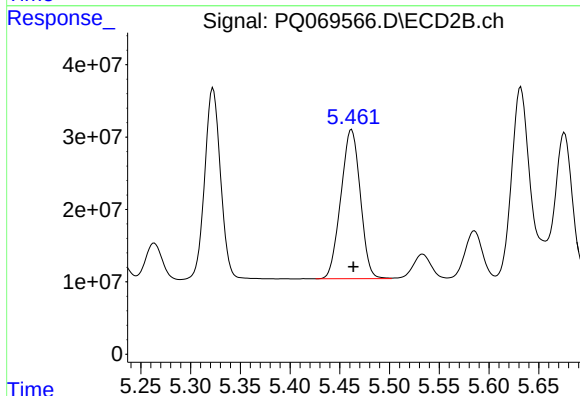
R.T.: 5.323 min
Delta R.T.: 0.000 min
Response: 290464392
Conc: 423.06 ng/ml



#33 AR-1260-3

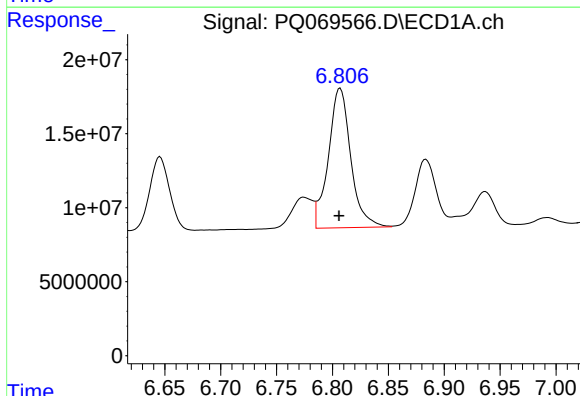
R.T.: 6.590 min
Delta R.T.: 0.000 min
Response: 114693284
Conc: 412.94 ng/ml

Instrument :
ECD_Q
ClientSampleId :



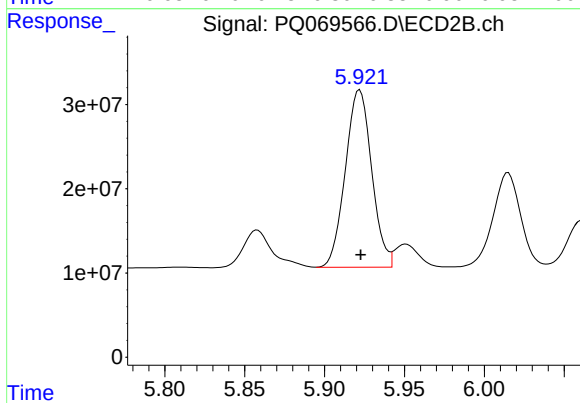
#33 AR-1260-3

R.T.: 5.462 min
Delta R.T.: -0.002 min
Response: 279866285
Conc: 425.24 ng/ml



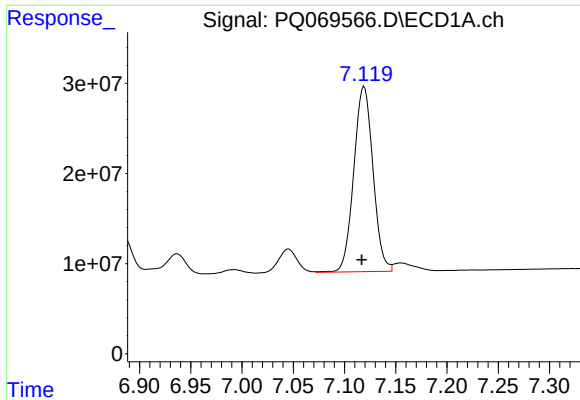
#34 AR-1260-4

R.T.: 6.807 min
Delta R.T.: 0.000 min
Response: 131582440
Conc: 422.08 ng/ml



#34 AR-1260-4

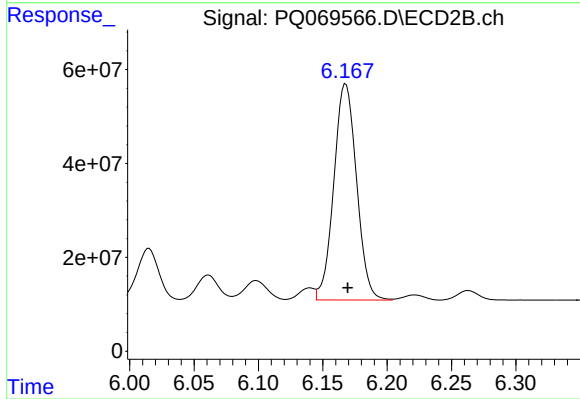
R.T.: 5.922 min
Delta R.T.: 0.000 min
Response: 242147077
Conc: 421.88 ng/ml



#35 AR-1260-5

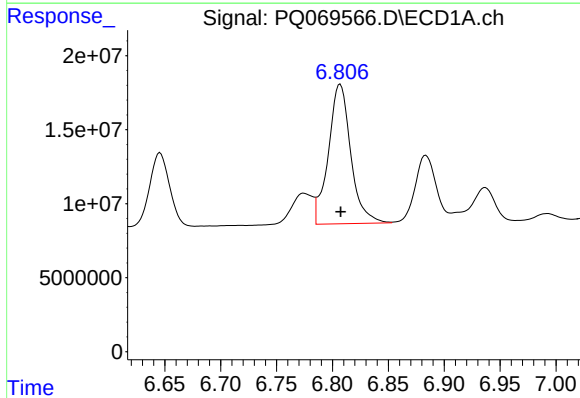
R.T.: 7.119 min
Delta R.T.: 0.002 min
Response: 267487882
Conc: 412.56 ng/ml

Instrument :
ECD_Q
ClientSampleId :



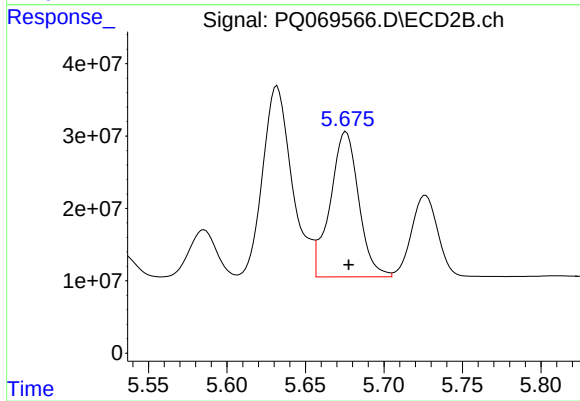
#35 AR-1260-5

R.T.: 6.168 min
Delta R.T.: -0.002 min
Response: 566961269
Conc: 417.97 ng/ml



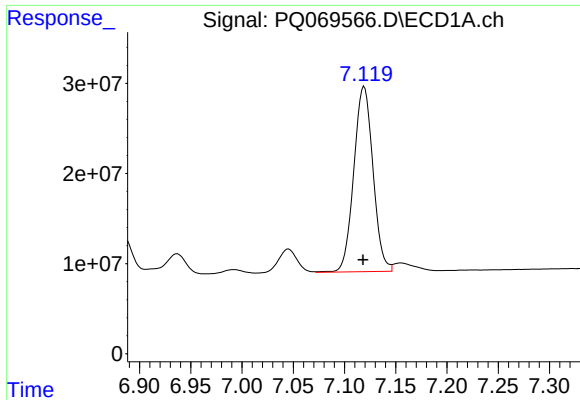
#36 AR-1262-1

R.T.: 6.807 min
Delta R.T.: 0.000 min
Response: 131582440
Conc: 351.87 ng/ml



#36 AR-1262-1

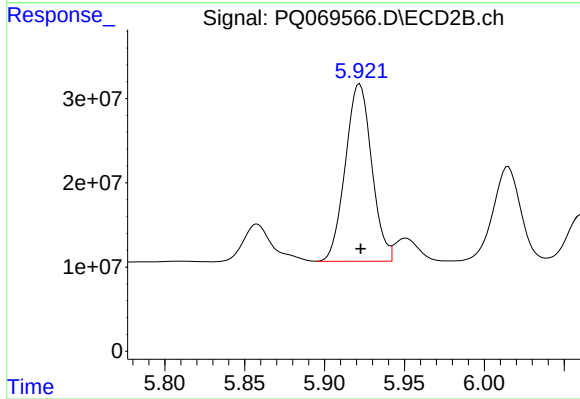
R.T.: 5.676 min
Delta R.T.: -0.002 min
Response: 253723547
Conc: 284.35 ng/ml



#37 AR-1262-2

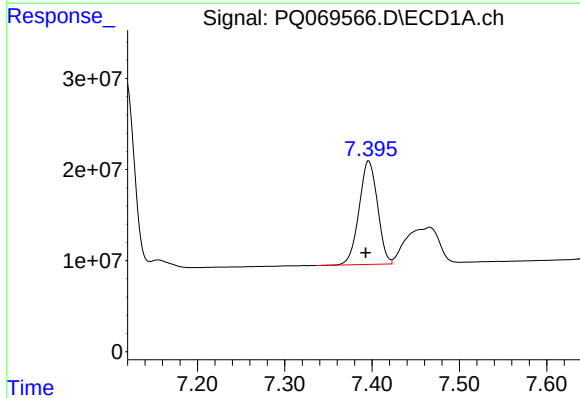
R.T.: 7.119 min
Delta R.T.: 0.000 min
Response: 267487882
Conc: 374.07 ng/ml

Instrument :
ECD_Q
ClientSampleId :



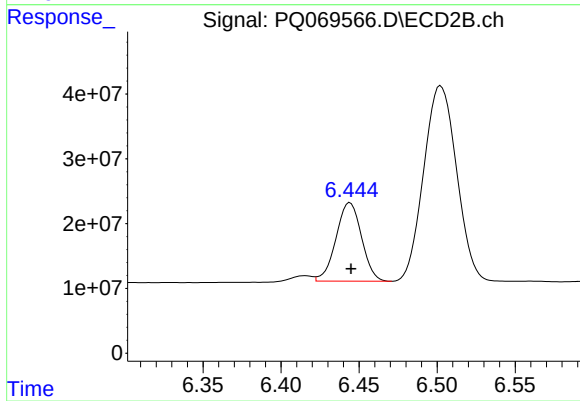
#37 AR-1262-2

R.T.: 5.922 min
Delta R.T.: 0.000 min
Response: 242147077
Conc: 291.96 ng/ml



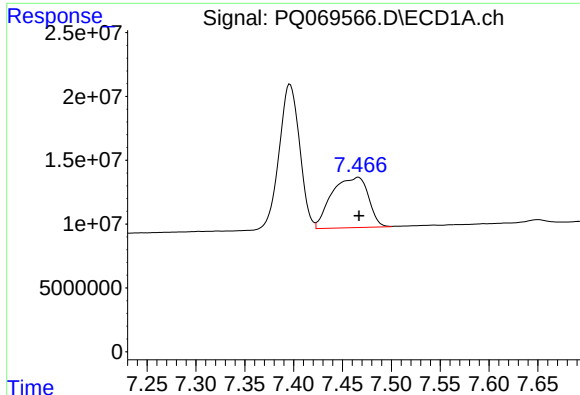
#38 AR-1262-3

R.T.: 7.396 min
Delta R.T.: 0.003 min
Response: 166562504
Conc: 360.81 ng/ml



#38 AR-1262-3

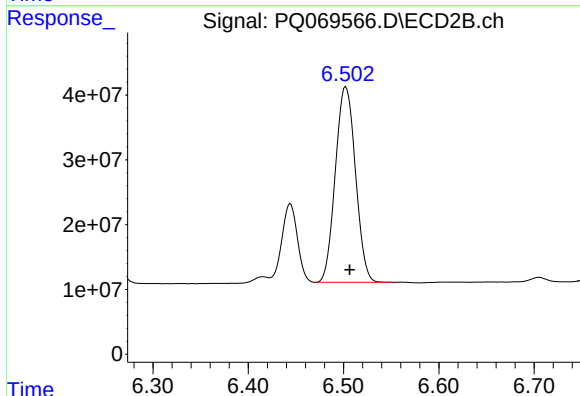
R.T.: 6.444 min
Delta R.T.: 0.000 min
Response: 137986541
Conc: 206.23 ng/ml



#39 AR-1262-4

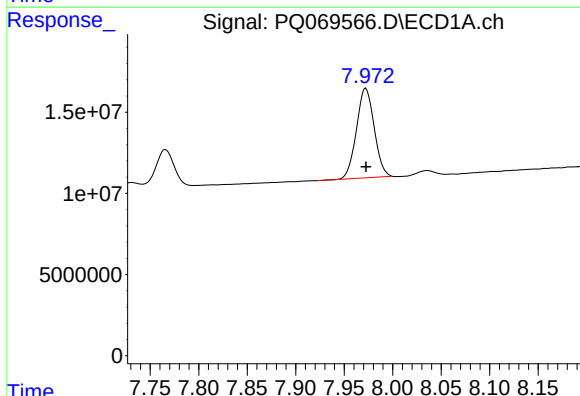
R.T.: 7.466 min
Delta R.T.: 0.000 min
Response: 102805469
Conc: 301.48 ng/ml

Instrument :
ECD_Q
ClientSampleId :



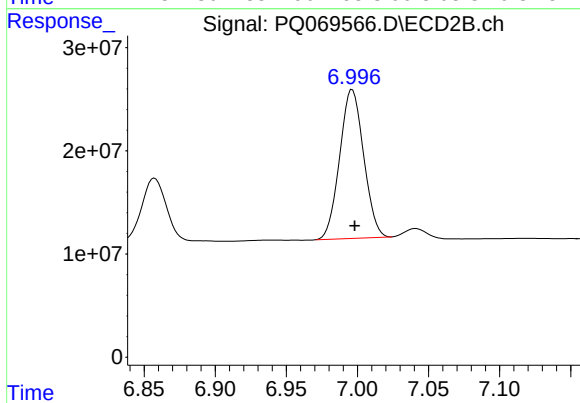
#39 AR-1262-4

R.T.: 6.502 min
Delta R.T.: -0.004 min
Response: 442987144
Conc: 353.79 ng/ml



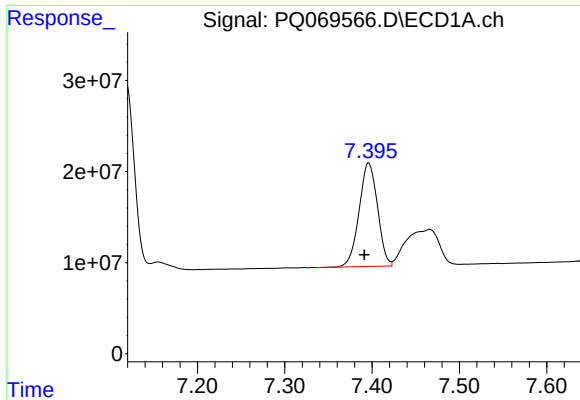
#40 AR-1262-5

R.T.: 7.972 min
Delta R.T.: 0.000 min
Response: 70483331
Conc: 311.54 ng/ml



#40 AR-1262-5

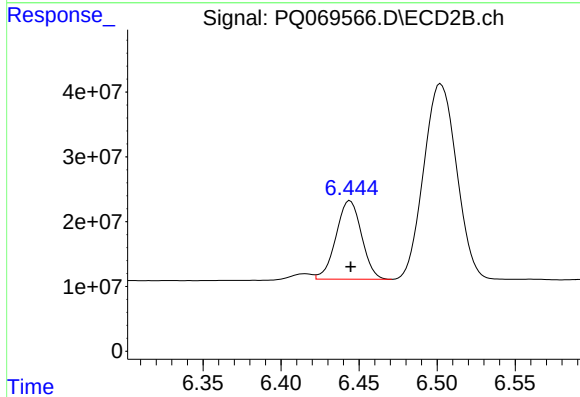
R.T.: 6.996 min
Delta R.T.: -0.002 min
Response: 169084587
Conc: 284.79 ng/ml



#41 AR-1268-1

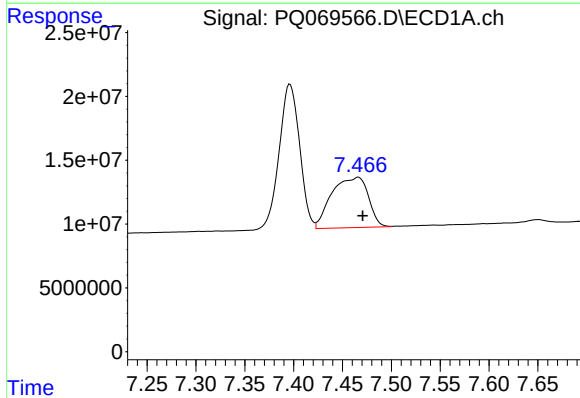
R.T.: 7.396 min
Delta R.T.: 0.005 min
Response: 166562504
Conc: 220.42 ng/ml

Instrument :
ECD_Q
ClientSampleId :



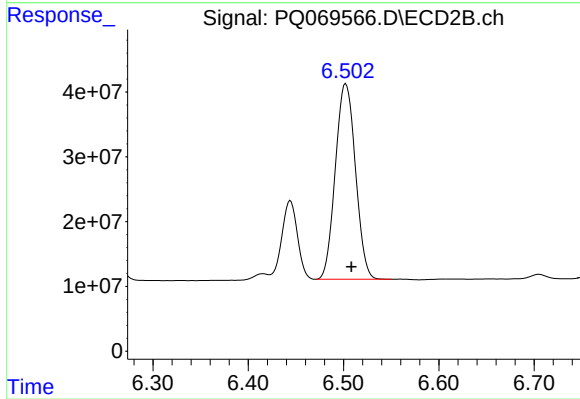
#41 AR-1268-1

R.T.: 6.444 min
Delta R.T.: 0.000 min
Response: 137986541
Conc: 73.99 ng/ml



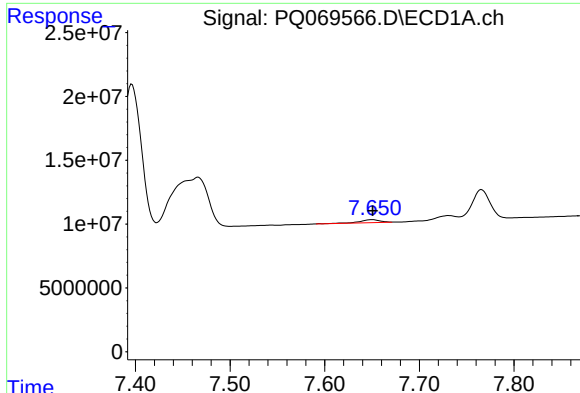
#42 AR-1268-2

R.T.: 7.466 min
Delta R.T.: -0.004 min
Response: 102805469
Conc: 149.49 ng/ml



#42 AR-1268-2

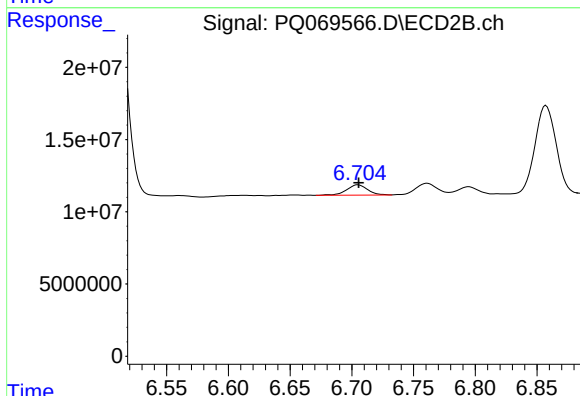
R.T.: 6.502 min
Delta R.T.: -0.006 min
Response: 442987144
Conc: 251.02 ng/ml



#43 AR-1268-3

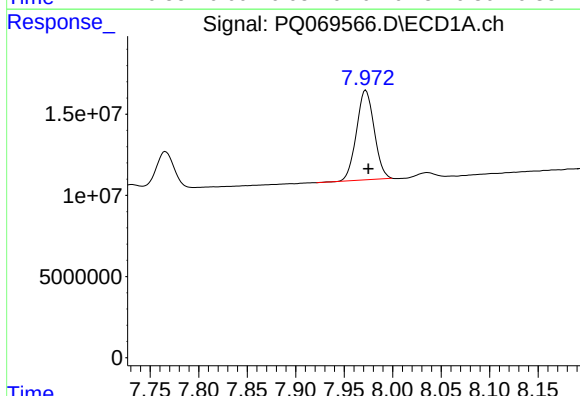
R.T.: 7.650 min
Delta R.T.: 0.000 min
Response: 3622659
Conc: 6.38 ng/ml

Instrument :
ECD_Q
ClientSampleId :



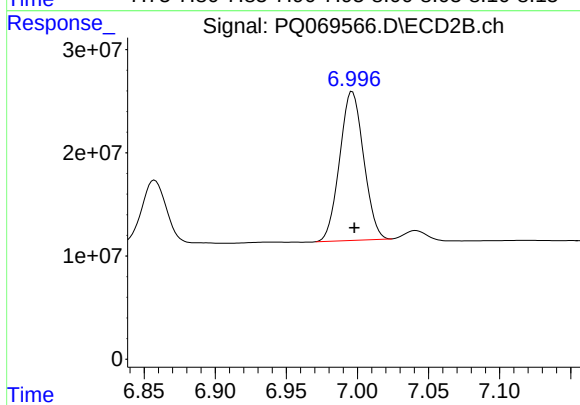
#43 AR-1268-3

R.T.: 6.705 min
Delta R.T.: 0.000 min
Response: 8355213
Conc: 5.53 ng/ml



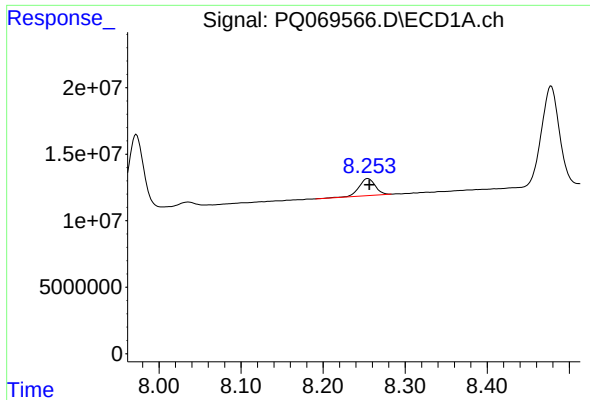
#44 AR-1268-4

R.T.: 7.972 min
Delta R.T.: -0.003 min
Response: 70483331
Conc: 292.89 ng/ml



#44 AR-1268-4

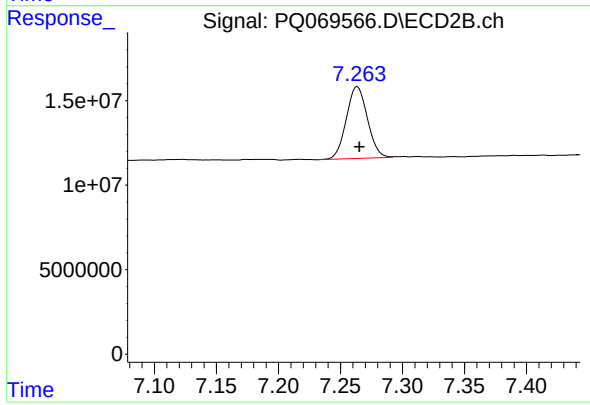
R.T.: 6.996 min
Delta R.T.: -0.002 min
Response: 169084587
Conc: 263.02 ng/ml



#45 AR-1268-5

R.T.: 8.254 min
Delta R.T.: -0.002 min
Response: 17488942
Conc: 9.76 ng/ml

Instrument :
ECD_Q
ClientSampleId :



#45 AR-1268-5

R.T.: 7.264 min
Delta R.T.: -0.002 min
Response: 50271283
Conc: 10.42 ng/ml