

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\P0080524\
 Data File : P0105193.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Aug 2024 15:08
 Operator : YP/AJ
 Sample : P3460-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 72-11929

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 06 00:50:10 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0072924.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Jul 30 07:11:20 2024
 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...	4.431	3.540	127.0E6	49844488	18.455	19.562
2)	SA Decachlor...	10.220	8.431	89295039	23430176	17.393	14.750
Target Compounds							
3)	L1 AR-1016-1	5.595	4.594	1158489	300498	4.868	3.232 #
4)	L1 AR-1016-2	5.628	4.620	1294772	1234993	3.851	9.596 #
5)	L1 AR-1016-3	5.671	4.783	51347	778132	0.248	11.491 #
6)	L1 AR-1016-4	5.764	4.822	18659514	1288689	102.777	23.963 #
7)	L1 AR-1016-5	6.096	5.039	585897	445259	3.600	6.274 #
8)	L2 AR-1221-1	4.638	3.702f	4851735	1505250	52.871	46.110
9)	L2 AR-1221-2	4.737	3.816	3657318	2173672	51.026	86.290 #
10)	L2 AR-1221-3	4.816	3.903	1763768	226410	8.761	3.008 #
11)	L3 AR-1232-1	4.816	3.903	1763768	226410	10.742	3.669 #
12)	L3 AR-1232-2	5.289f	4.620	39926209	1234993	482.769	20.289 #
13)	L3 AR-1232-3	5.628	4.783	1294772	778132	8.240	24.449 #
14)	L3 AR-1232-4	5.764	4.882	18659514	668462	216.441	23.276 #
15)	L3 AR-1232-5	5.880	5.039	3762126	445259	65.690	14.301 #
16)	L4 AR-1242-1	5.595	4.594	1158489	300498	5.934	3.925 #
17)	L4 AR-1242-2	5.628	4.620	1294772	1234993	4.730	11.771 #
18)	L4 AR-1242-3	5.671	4.783	51347	778132	0.304	14.020 #
19)	L4 AR-1242-4	5.764	4.882	18659514	668462	123.881	11.945 #
20)	L4 AR-1242-5	6.513	5.385	13553190	11831024	81.227	166.828 #
21)	L5 AR-1248-1	5.595	4.594	1158489	300498	7.473	4.903 #
22)	L5 AR-1248-2	5.880	4.822	3762126	1288689	17.055	15.504
23)	L5 AR-1248-3	6.096	4.882	585897	668462	2.386	7.671 #
24)	L5 AR-1248-4	6.475	5.039	27639180	445259	91.368	4.315 #
25)	L5 AR-1248-5	6.513	5.424	13553190	1435656	47.686	13.963 #
26)	L6 AR-1254-1	6.475	5.385	27639180	11831024	95.495	78.847
27)	L6 AR-1254-2	6.695	5.523	19680326	4552255	47.394	34.009 #
28)	L6 AR-1254-3	7.056	5.920	31736821	2587140	76.019	12.176 #
29)	L6 AR-1254-4	7.340	6.148	7490051	1187223	23.965	8.939 #
30)	L6 AR-1254-5	7.781	6.558	20005751	6337478	54.679	34.142 #
31)	L7 AR-1260-1	7.234	6.049	28444962	2436524	89.585	17.890 #
32)	L7 AR-1260-2	7.475	6.235	29287492	2065593	80.534	12.276 #
33)	L7 AR-1260-3	7.840	6.387	1977654	3732838	7.713	22.133 #
34)	L7 AR-1260-4	8.069	6.850	3974982	1761526	13.943	16.085
35)	L7 AR-1260-5	8.392	7.090	5079041	1672908	9.087	6.545 #
36)	L8 AR-1262-1	7.781	6.558	20005751	6337478	68.727	62.682
37)	L8 AR-1262-2	8.392	6.850	5079041	1761526	6.915	10.658 #
38)	L8 AR-1262-3	8.699	7.376	4211000	8201050	8.855	65.244 #
39)	L8 AR-1262-4	8.794	7.431	2550983	4081309	7.371	17.785 #
40)	L8 AR-1262-5	9.521f	7.925	1256472	252570	5.079	2.570 #
41)	L9 AR-1268-1	8.699	7.376	4211000	8201050	5.341	23.310 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\P0080524\
Data File : P0105193.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Aug 2024 15:08
Operator : YP/AJ
Sample : P3460-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

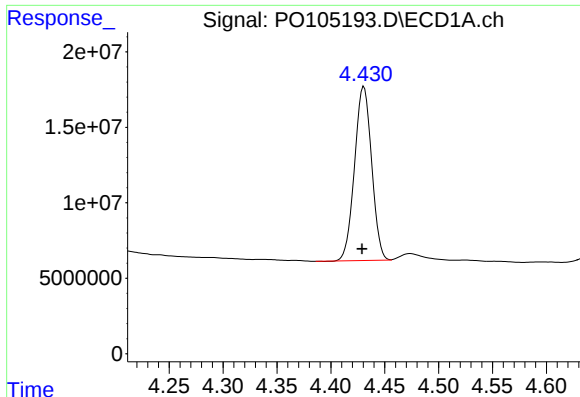
Instrument :
ECD_O
ClientSampleId :
72-11929

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 06 00:50:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0072924.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Jul 30 07:11:20 2024
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	8.794	7.431	2550983	4081309	3.680	13.160 #
43)	L9 AR-1268-3	9.039	7.648	3324446	769273	5.570	3.063 #
44)	L9 AR-1268-4	9.521f	7.925	1256472	252570	4.980	2.426 #
45)	L9 AR-1268-5	9.885	8.239f	1882316	65927	0.960	0.098 #

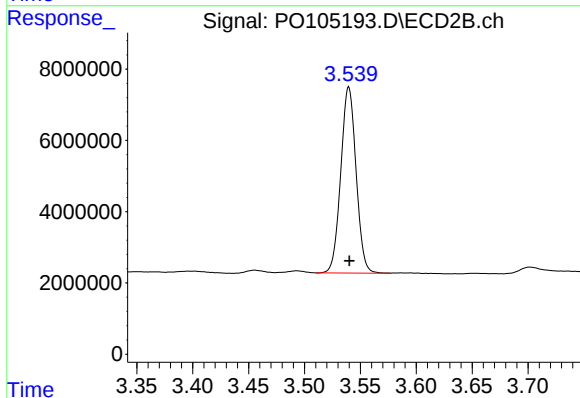
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



#1 Tetrachloro-m-xylene

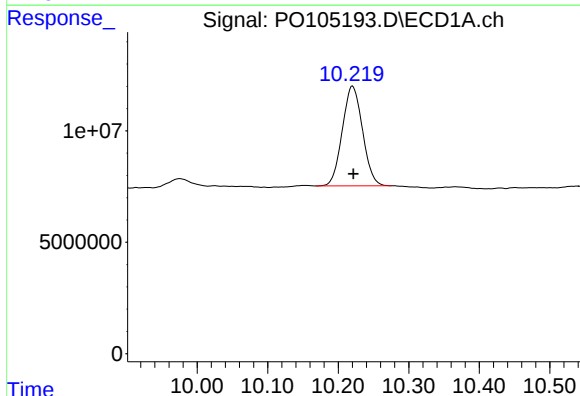
R.T.: 4.431 min
Delta R.T.: 0.002 min
Response: 127047077
Conc: 18.45 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



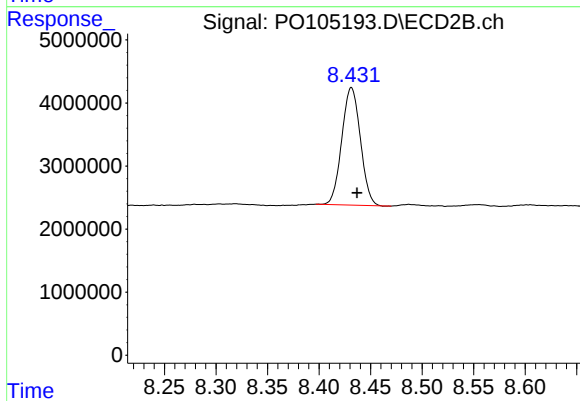
#1 Tetrachloro-m-xylene

R.T.: 3.540 min
Delta R.T.: 0.000 min
Response: 49844488
Conc: 19.56 ng/ml



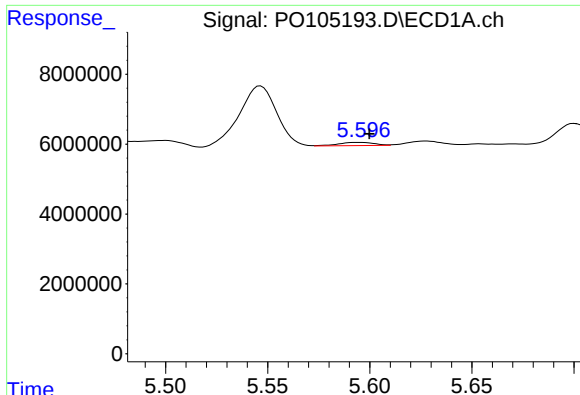
#2 Decachlorobiphenyl

R.T.: 10.220 min
Delta R.T.: -0.001 min
Response: 89295039
Conc: 17.39 ng/ml



#2 Decachlorobiphenyl

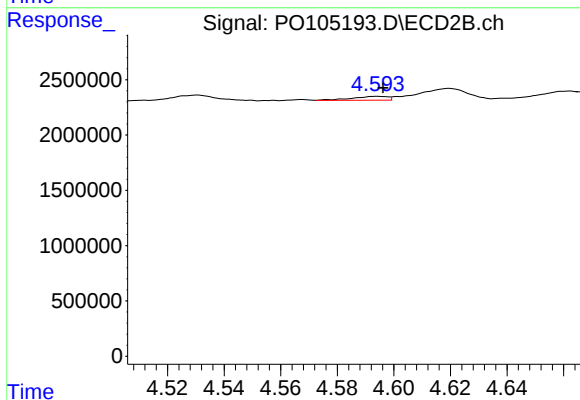
R.T.: 8.431 min
Delta R.T.: -0.005 min
Response: 23430176
Conc: 14.75 ng/ml



#3 AR-1016-1

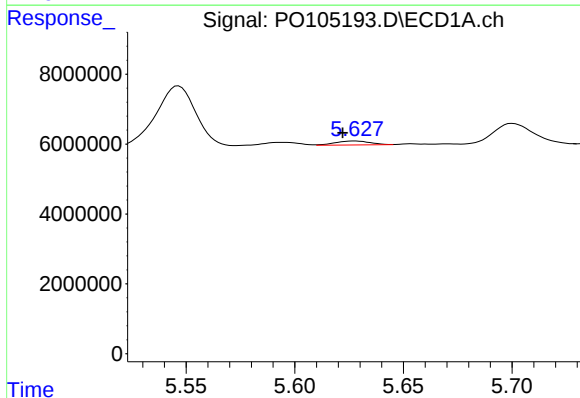
R.T.: 5.595 min
Delta R.T.: -0.005 min
Response: 1158489
Conc: 4.87 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



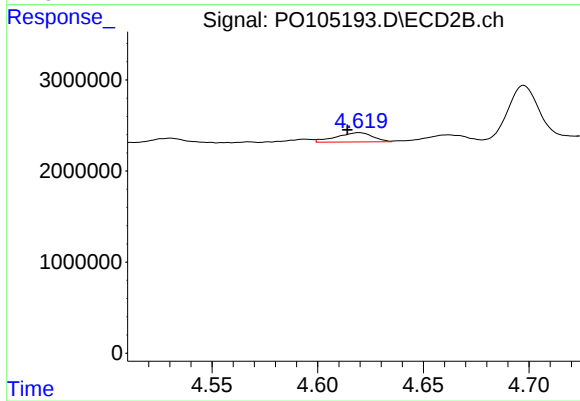
#3 AR-1016-1

R.T.: 4.594 min
Delta R.T.: -0.002 min
Response: 300498
Conc: 3.23 ng/ml



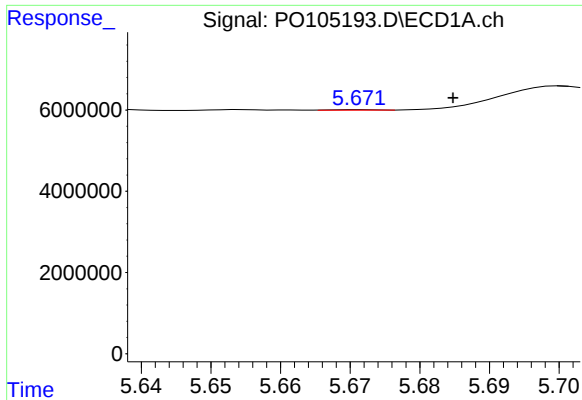
#4 AR-1016-2

R.T.: 5.628 min
Delta R.T.: 0.006 min
Response: 1294772
Conc: 3.85 ng/ml



#4 AR-1016-2

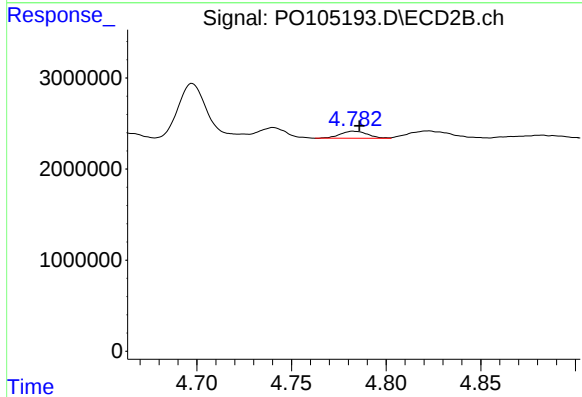
R.T.: 4.620 min
Delta R.T.: 0.006 min
Response: 1234993
Conc: 9.60 ng/ml



#5 AR-1016-3

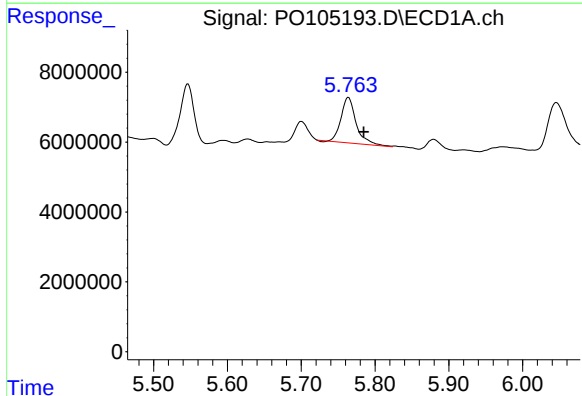
R.T.: 5.671 min
Delta R.T.: -0.014 min
Response: 51347
Conc: 0.25 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



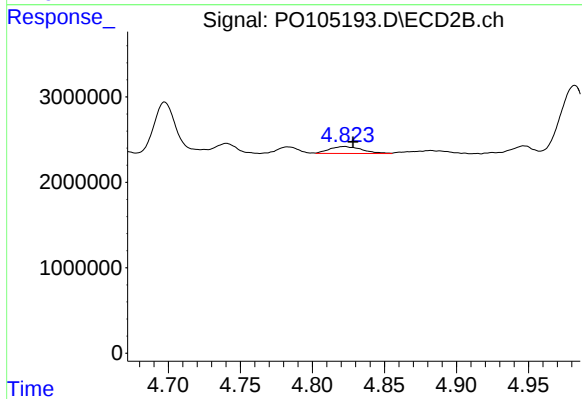
#5 AR-1016-3

R.T.: 4.783 min
Delta R.T.: -0.003 min
Response: 778132
Conc: 11.49 ng/ml



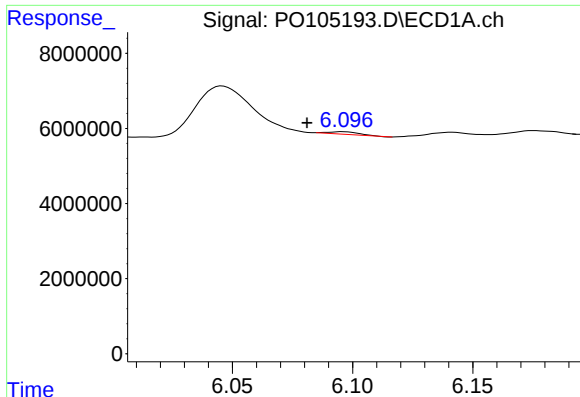
#6 AR-1016-4

R.T.: 5.764 min
Delta R.T.: -0.021 min
Response: 18659514
Conc: 102.78 ng/ml



#6 AR-1016-4

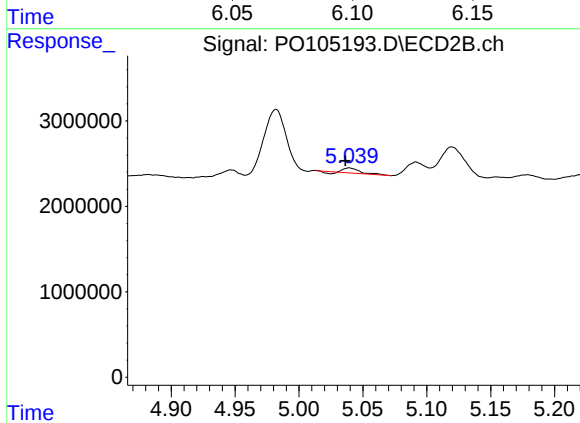
R.T.: 4.822 min
Delta R.T.: -0.006 min
Response: 1288689
Conc: 23.96 ng/ml



#7 AR-1016-5

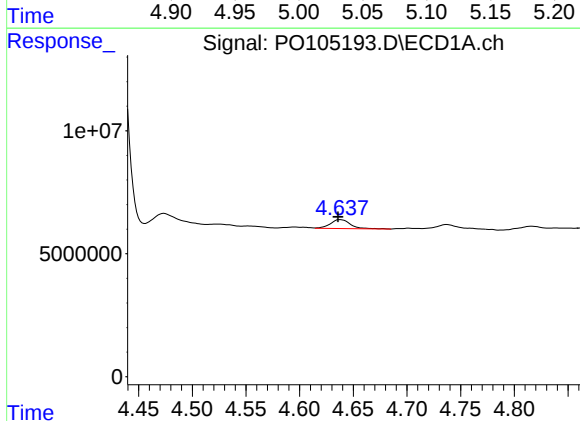
R.T.: 6.096 min
Delta R.T.: 0.015 min
Response: 585897
Conc: 3.60 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



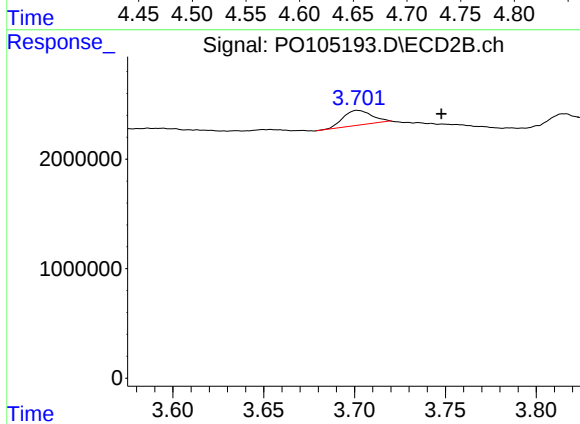
#7 AR-1016-5

R.T.: 5.039 min
Delta R.T.: 0.003 min
Response: 445259
Conc: 6.27 ng/ml



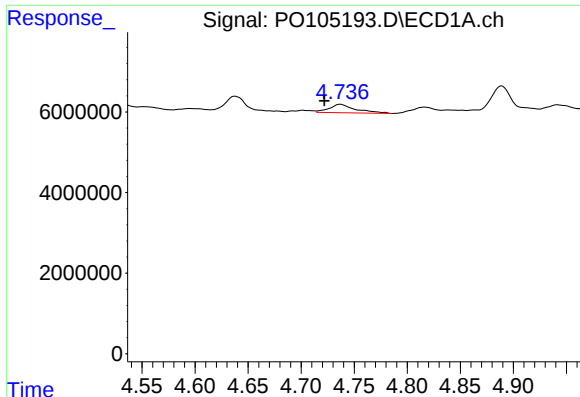
#8 AR-1221-1

R.T.: 4.638 min
Delta R.T.: 0.002 min
Response: 4851735
Conc: 52.87 ng/ml



#8 AR-1221-1

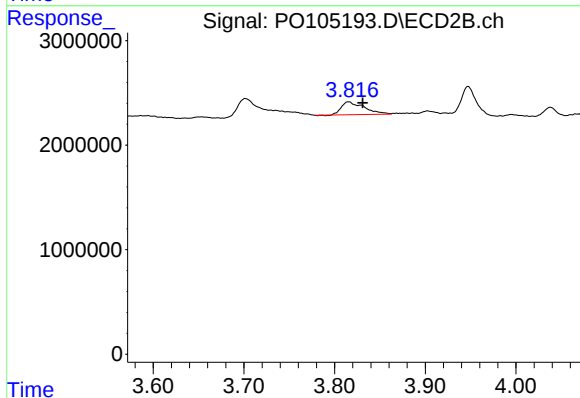
R.T.: 3.702 min
Delta R.T.: -0.046 min
Response: 1505250
Conc: 46.11 ng/ml



#9 AR-1221-2

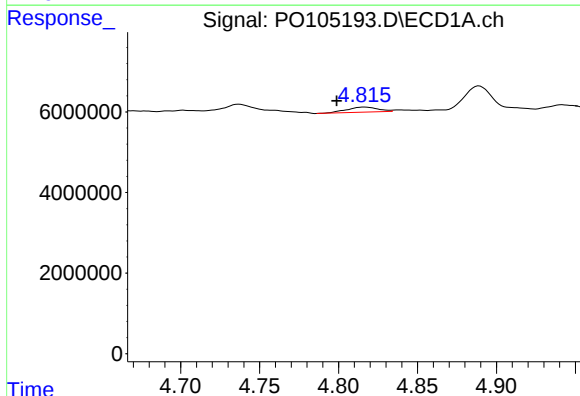
R.T.: 4.737 min
Delta R.T.: 0.015 min
Response: 3657318
Conc: 51.03 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



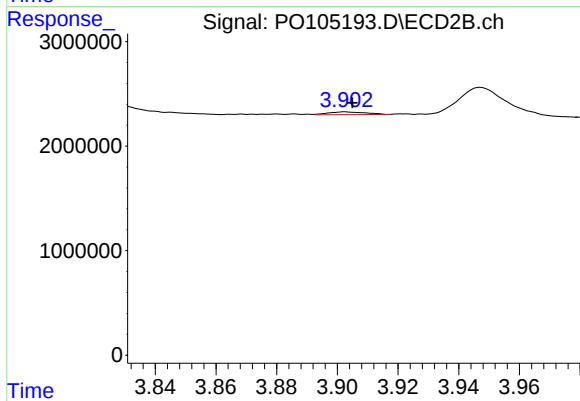
#9 AR-1221-2

R.T.: 3.816 min
Delta R.T.: -0.015 min
Response: 2173672
Conc: 86.29 ng/ml



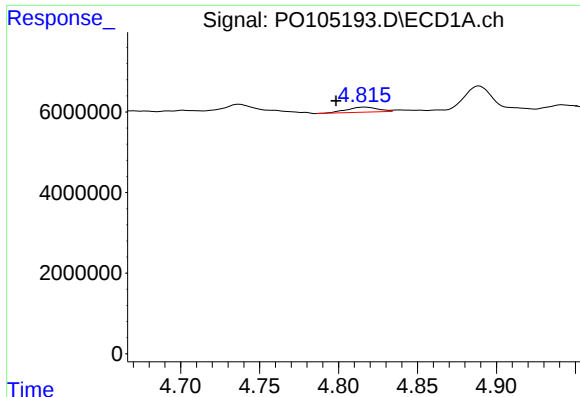
#10 AR-1221-3

R.T.: 4.816 min
Delta R.T.: 0.017 min
Response: 1763768
Conc: 8.76 ng/ml



#10 AR-1221-3

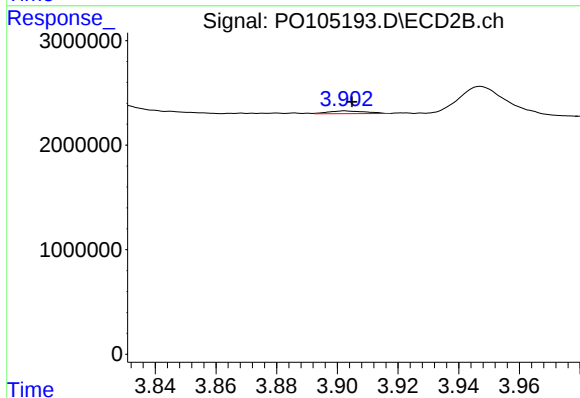
R.T.: 3.903 min
Delta R.T.: -0.002 min
Response: 226410
Conc: 3.01 ng/ml



#11 AR-1232-1

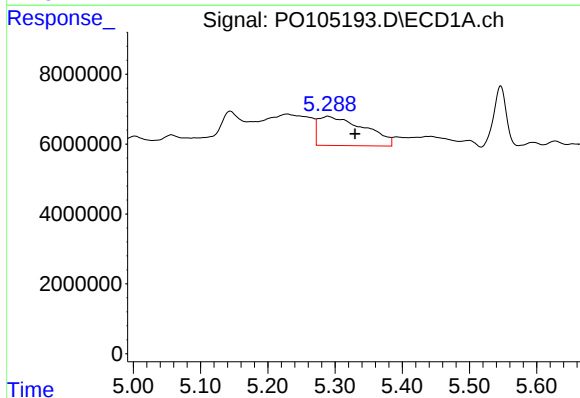
R.T.: 4.816 min
Delta R.T.: 0.018 min
Response: 1763768
Conc: 10.74 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



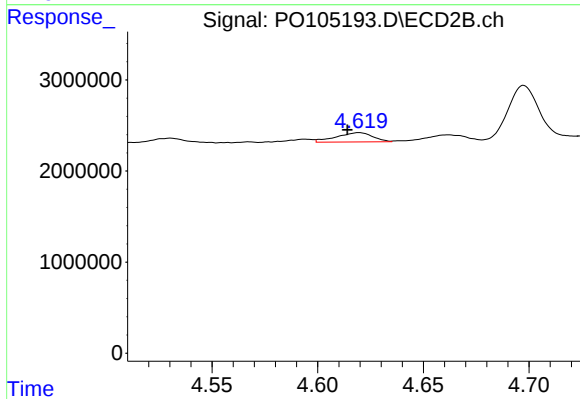
#11 AR-1232-1

R.T.: 3.903 min
Delta R.T.: -0.002 min
Response: 226410
Conc: 3.67 ng/ml



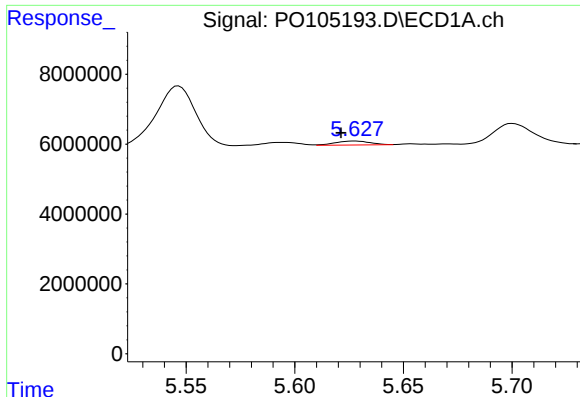
#12 AR-1232-2

R.T.: 5.289 min
Delta R.T.: -0.041 min
Response: 39926209
Conc: 482.77 ng/ml



#12 AR-1232-2

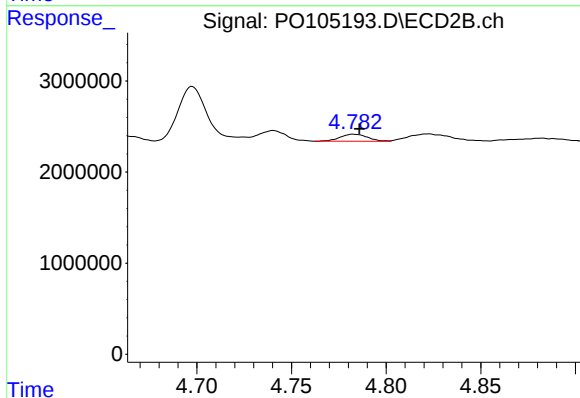
R.T.: 4.620 min
Delta R.T.: 0.006 min
Response: 1234993
Conc: 20.29 ng/ml



#13 AR-1232-3

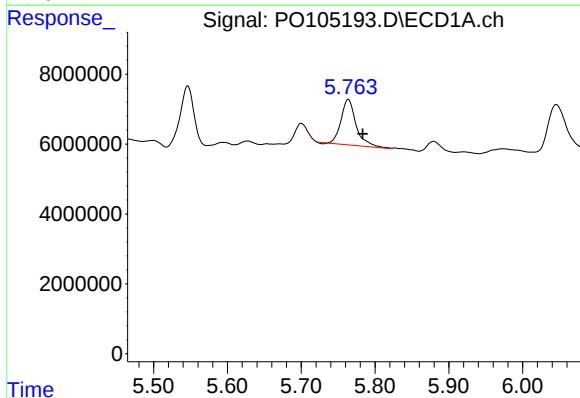
R.T.: 5.628 min
Delta R.T.: 0.007 min
Response: 1294772
Conc: 8.24 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



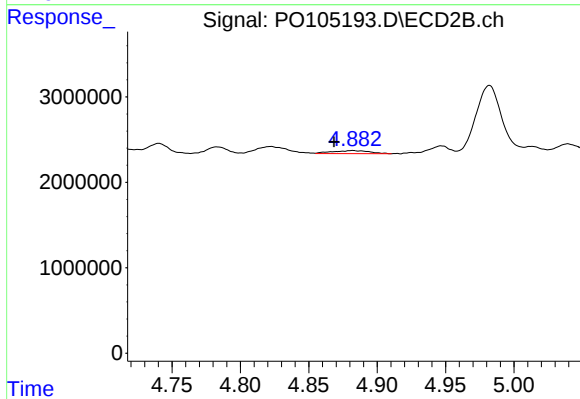
#13 AR-1232-3

R.T.: 4.783 min
Delta R.T.: -0.003 min
Response: 778132
Conc: 24.45 ng/ml



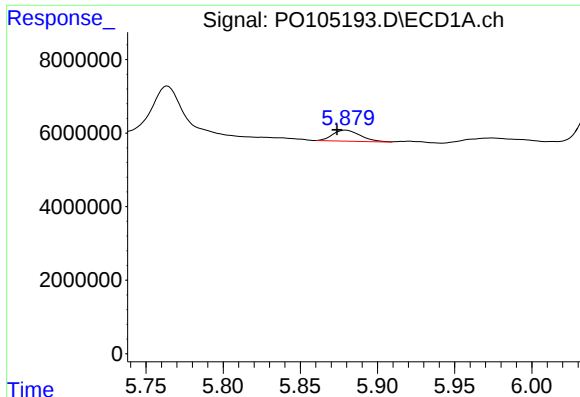
#14 AR-1232-4

R.T.: 5.764 min
Delta R.T.: -0.020 min
Response: 18659514
Conc: 216.44 ng/ml



#14 AR-1232-4

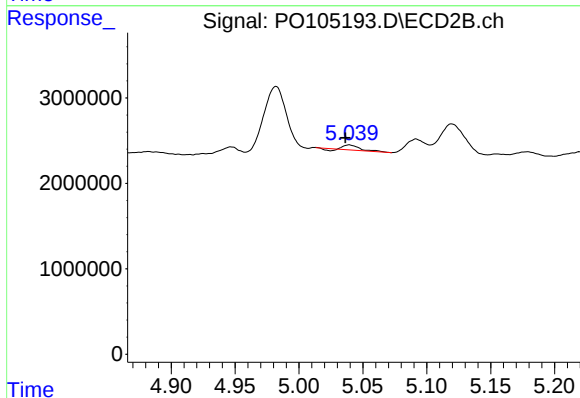
R.T.: 4.882 min
Delta R.T.: 0.013 min
Response: 668462
Conc: 23.28 ng/ml



#15 AR-1232-5

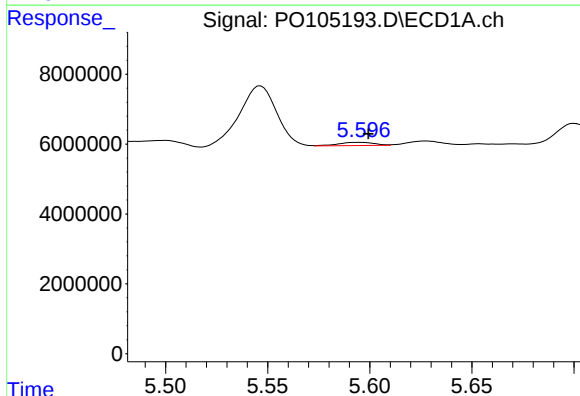
R.T.: 5.880 min
Delta R.T.: 0.006 min
Response: 3762126
Conc: 65.69 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



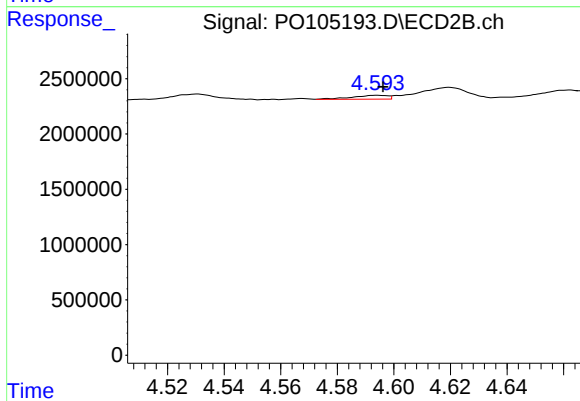
#15 AR-1232-5

R.T.: 5.039 min
Delta R.T.: 0.003 min
Response: 445259
Conc: 14.30 ng/ml



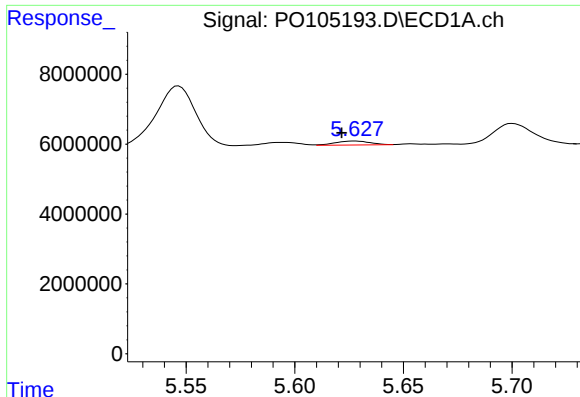
#16 AR-1242-1

R.T.: 5.595 min
Delta R.T.: -0.005 min
Response: 1158489
Conc: 5.93 ng/ml



#16 AR-1242-1

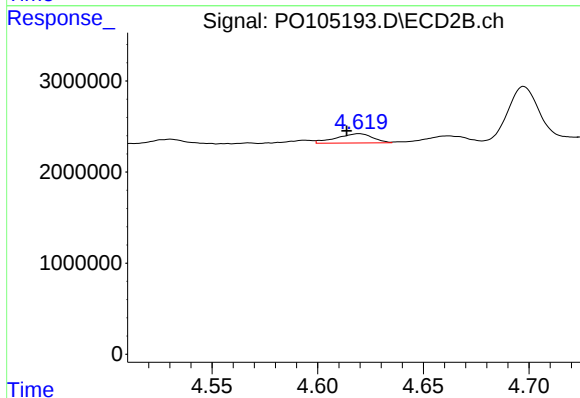
R.T.: 4.594 min
Delta R.T.: -0.002 min
Response: 300498
Conc: 3.93 ng/ml



#17 AR-1242-2

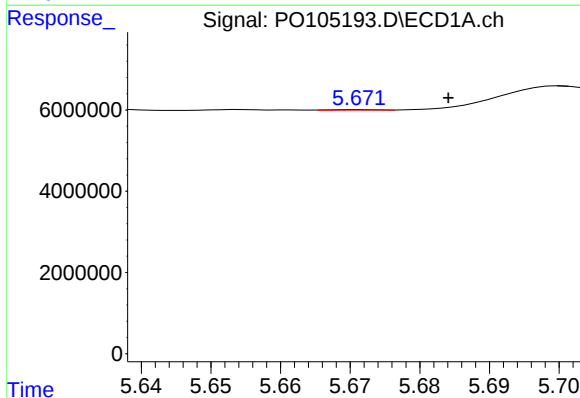
R.T.: 5.628 min
Delta R.T.: 0.006 min
Response: 1294772
Conc: 4.73 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



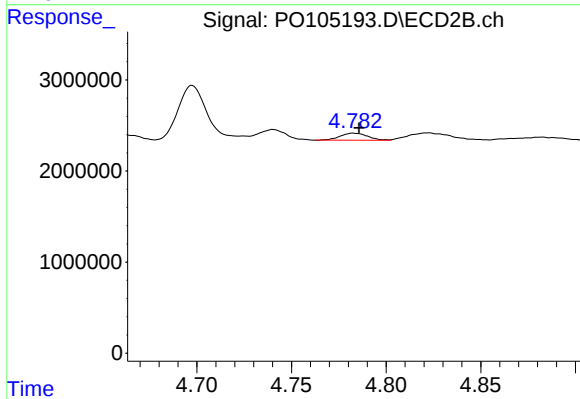
#17 AR-1242-2

R.T.: 4.620 min
Delta R.T.: 0.006 min
Response: 1234993
Conc: 11.77 ng/ml



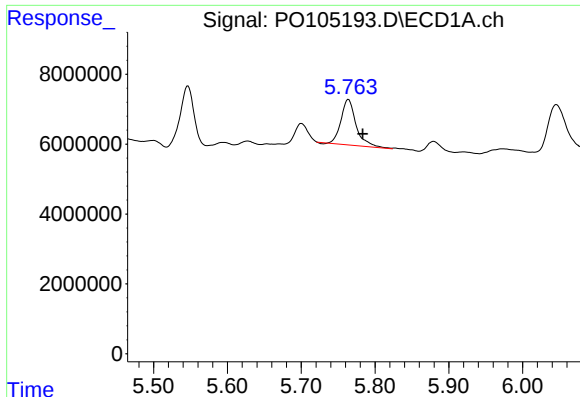
#18 AR-1242-3

R.T.: 5.671 min
Delta R.T.: -0.013 min
Response: 51347
Conc: 0.30 ng/ml



#18 AR-1242-3

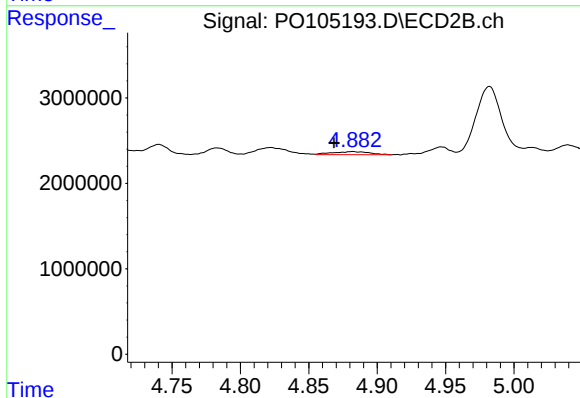
R.T.: 4.783 min
Delta R.T.: -0.003 min
Response: 778132
Conc: 14.02 ng/ml



#19 AR-1242-4

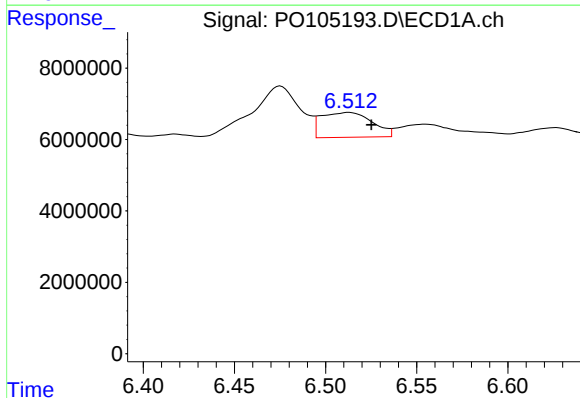
R.T.: 5.764 min
Delta R.T.: -0.020 min
Response: 18659514
Conc: 123.88 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



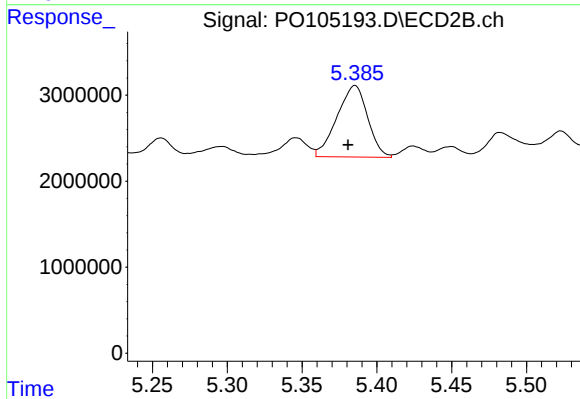
#19 AR-1242-4

R.T.: 4.882 min
Delta R.T.: 0.013 min
Response: 668462
Conc: 11.95 ng/ml



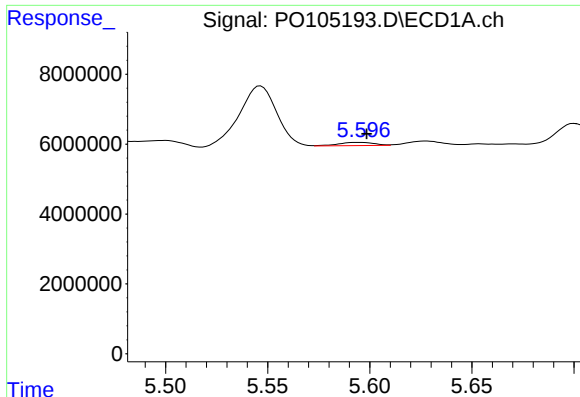
#20 AR-1242-5

R.T.: 6.513 min
Delta R.T.: -0.012 min
Response: 13553190
Conc: 81.23 ng/ml



#20 AR-1242-5

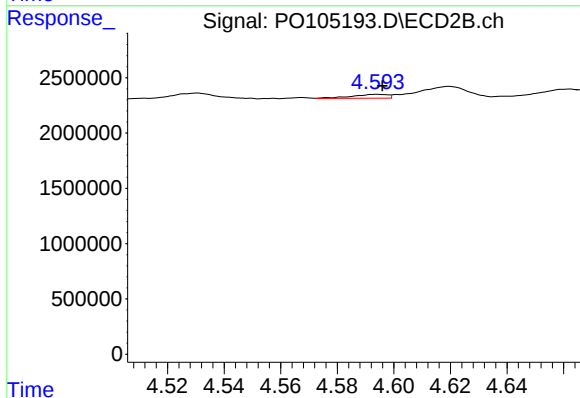
R.T.: 5.385 min
Delta R.T.: 0.005 min
Response: 11831024
Conc: 166.83 ng/ml



#21 AR-1248-1

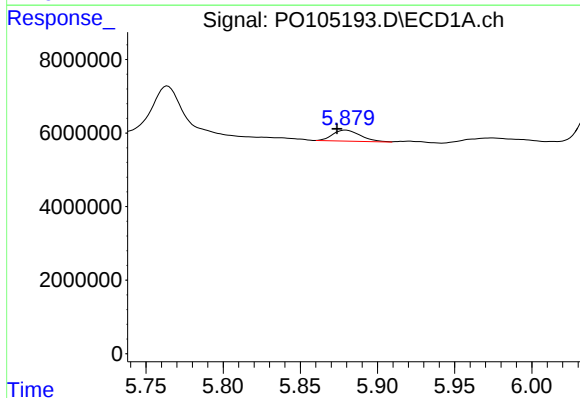
R.T.: 5.595 min
Delta R.T.: -0.004 min
Response: 1158489
Conc: 7.47 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



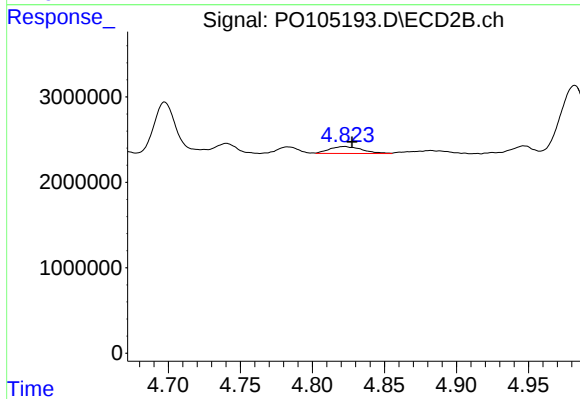
#21 AR-1248-1

R.T.: 4.594 min
Delta R.T.: -0.002 min
Response: 300498
Conc: 4.90 ng/ml



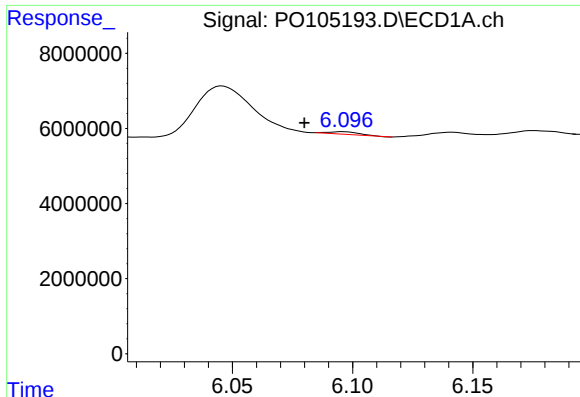
#22 AR-1248-2

R.T.: 5.880 min
Delta R.T.: 0.006 min
Response: 3762126
Conc: 17.05 ng/ml



#22 AR-1248-2

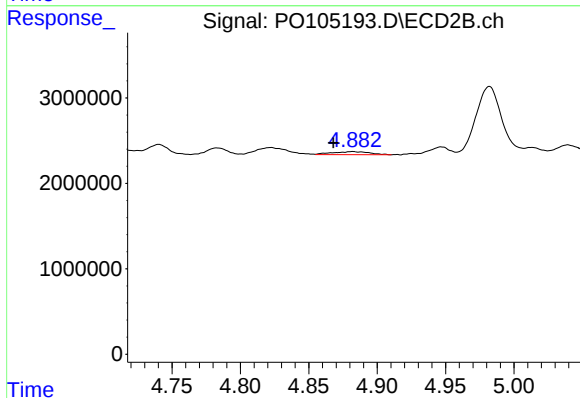
R.T.: 4.822 min
Delta R.T.: -0.005 min
Response: 1288689
Conc: 15.50 ng/ml



#23 AR-1248-3

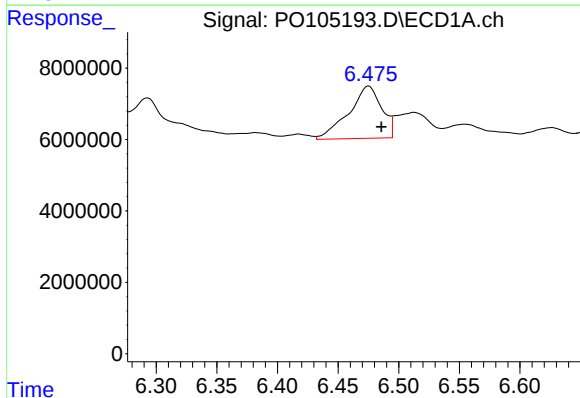
R.T.: 6.096 min
Delta R.T.: 0.016 min
Response: 585897
Conc: 2.39 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



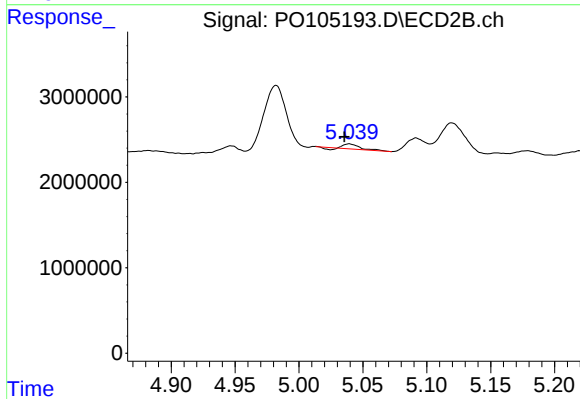
#23 AR-1248-3

R.T.: 4.882 min
Delta R.T.: 0.014 min
Response: 668462
Conc: 7.67 ng/ml



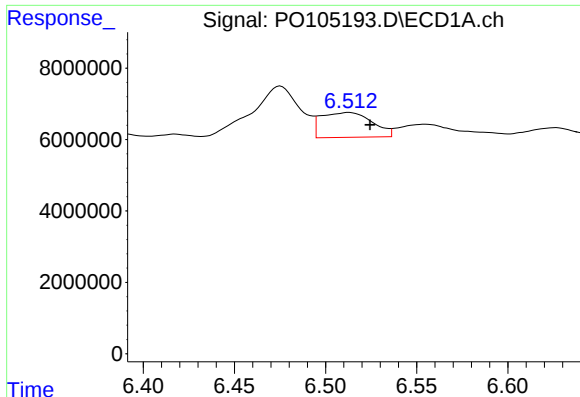
#24 AR-1248-4

R.T.: 6.475 min
Delta R.T.: -0.010 min
Response: 27639180
Conc: 91.37 ng/ml



#24 AR-1248-4

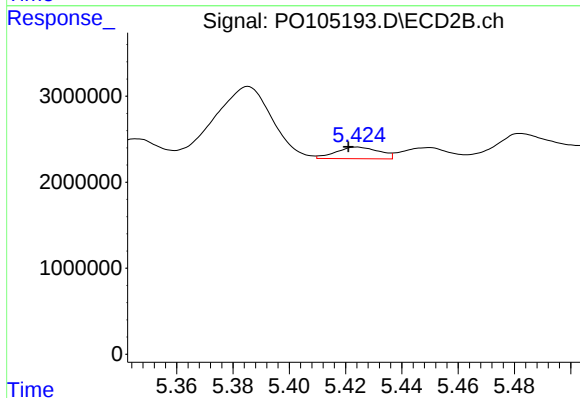
R.T.: 5.039 min
Delta R.T.: 0.004 min
Response: 445259
Conc: 4.31 ng/ml



#25 AR-1248-5

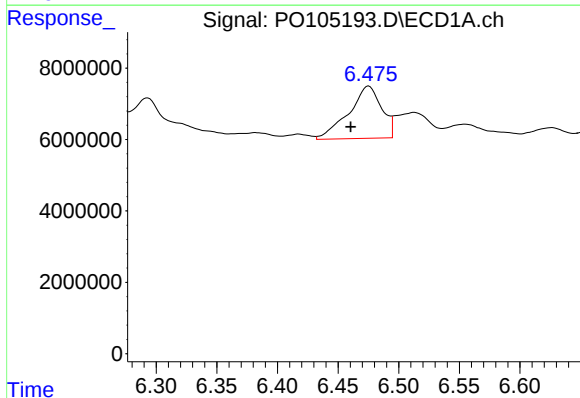
R.T.: 6.513 min
Delta R.T.: -0.011 min
Response: 13553190
Conc: 47.69 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



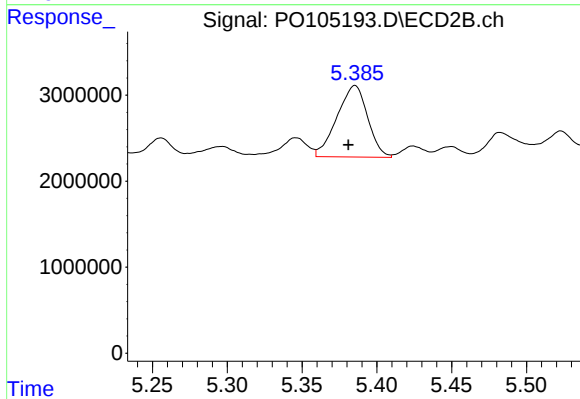
#25 AR-1248-5

R.T.: 5.424 min
Delta R.T.: 0.003 min
Response: 1435656
Conc: 13.96 ng/ml



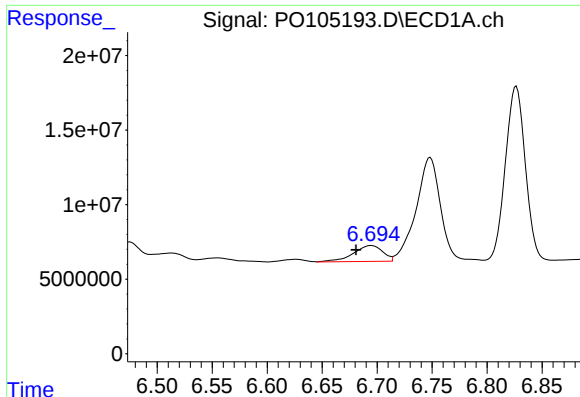
#26 AR-1254-1

R.T.: 6.475 min
Delta R.T.: 0.015 min
Response: 27639180
Conc: 95.50 ng/ml



#26 AR-1254-1

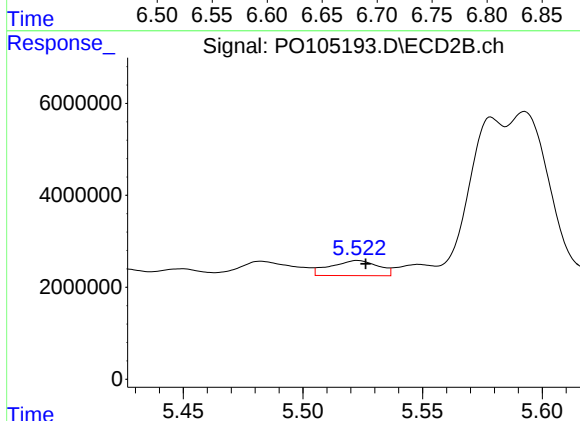
R.T.: 5.385 min
Delta R.T.: 0.004 min
Response: 11831024
Conc: 78.85 ng/ml



#27 AR-1254-2

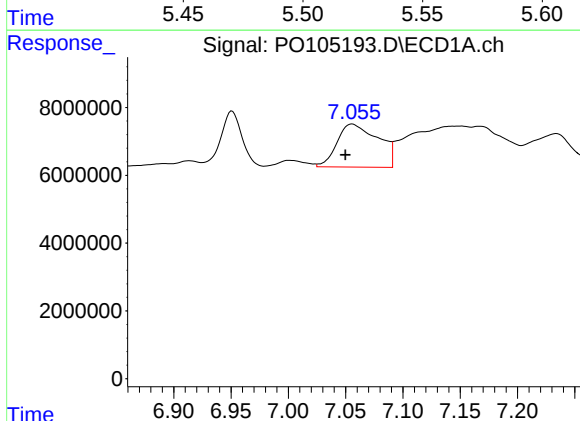
R.T.: 6.695 min
Delta R.T.: 0.014 min
Response: 19680326
Conc: 47.39 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



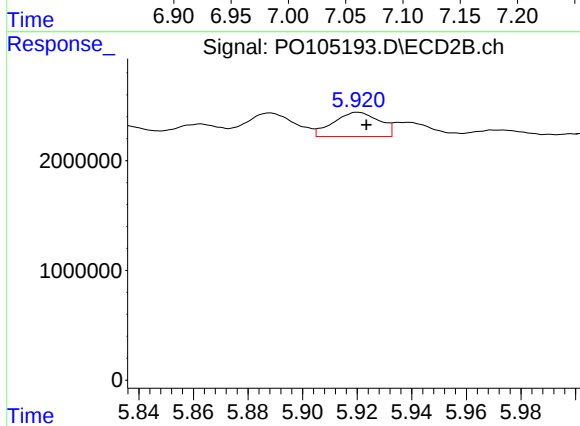
#27 AR-1254-2

R.T.: 5.523 min
Delta R.T.: -0.003 min
Response: 4552255
Conc: 34.01 ng/ml



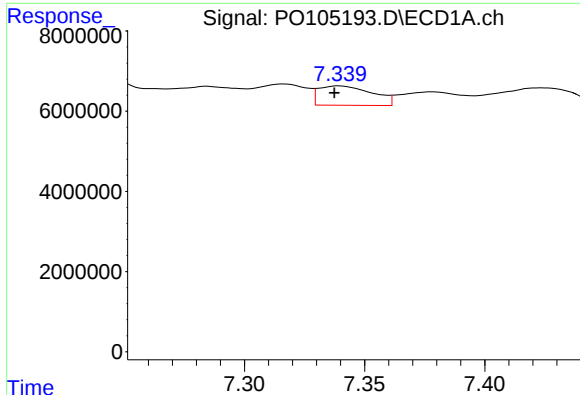
#28 AR-1254-3

R.T.: 7.056 min
Delta R.T.: 0.006 min
Response: 31736821
Conc: 76.02 ng/ml



#28 AR-1254-3

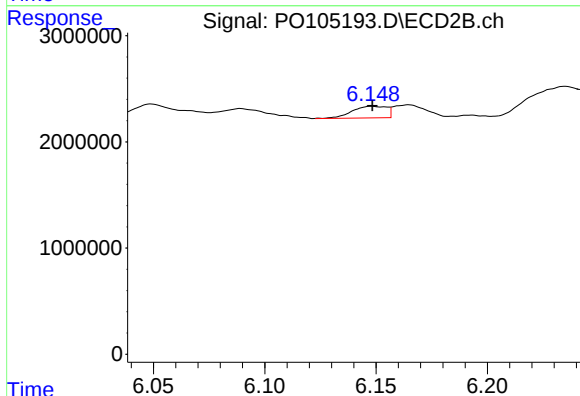
R.T.: 5.920 min
Delta R.T.: -0.003 min
Response: 2587140
Conc: 12.18 ng/ml



#29 AR-1254-4

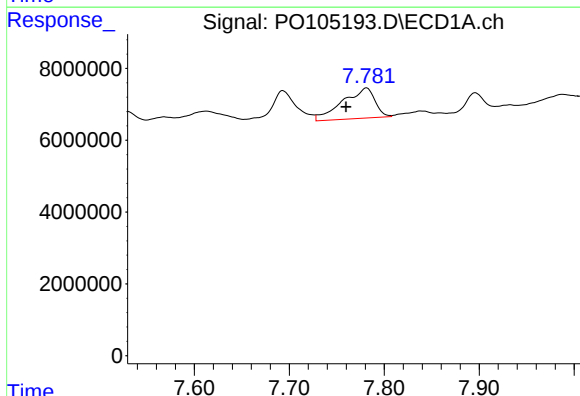
R.T.: 7.340 min
Delta R.T.: 0.002 min
Response: 7490051
Conc: 23.97 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



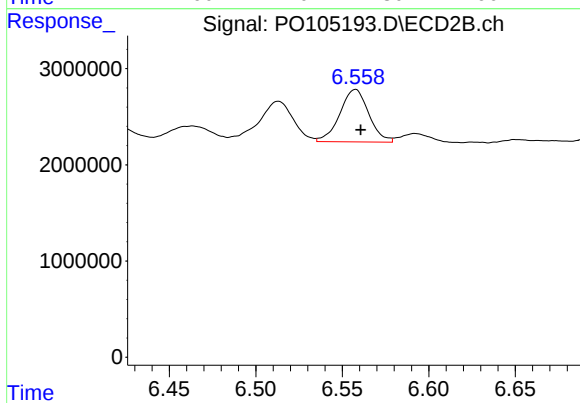
#29 AR-1254-4

R.T.: 6.148 min
Delta R.T.: 0.000 min
Response: 1187223
Conc: 8.94 ng/ml



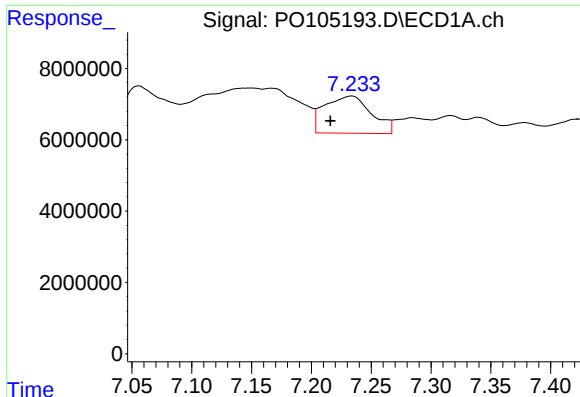
#30 AR-1254-5

R.T.: 7.781 min
Delta R.T.: 0.022 min
Response: 20005751
Conc: 54.68 ng/ml



#30 AR-1254-5

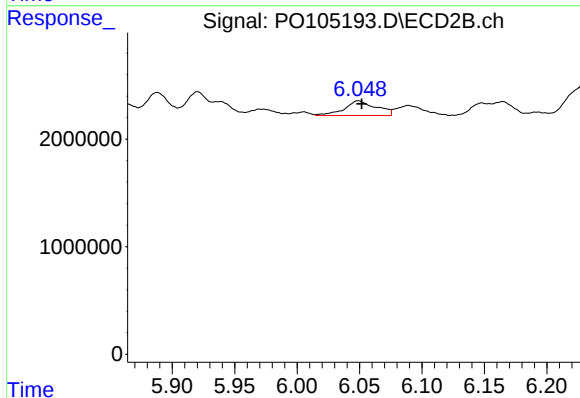
R.T.: 6.558 min
Delta R.T.: -0.003 min
Response: 6337478
Conc: 34.14 ng/ml



#31 AR-1260-1

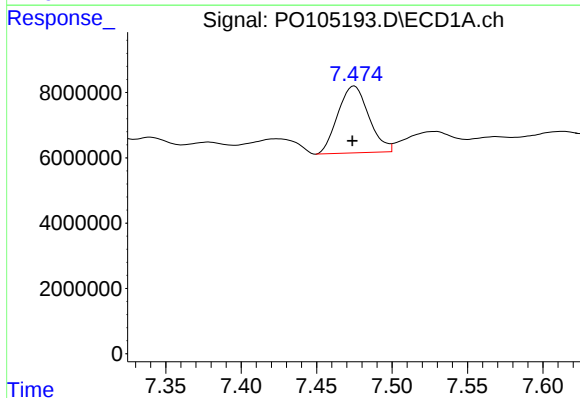
R.T.: 7.234 min
Delta R.T.: 0.018 min
Response: 28444962
Conc: 89.58 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



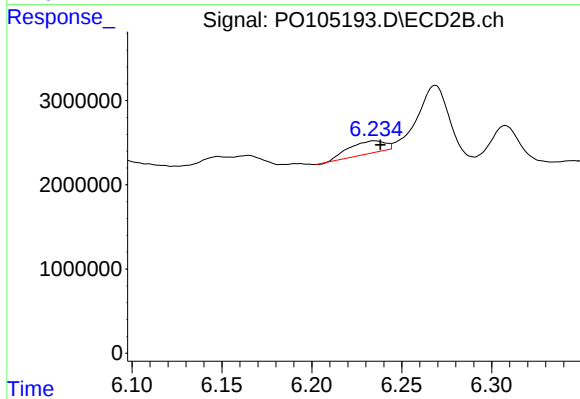
#31 AR-1260-1

R.T.: 6.049 min
Delta R.T.: -0.003 min
Response: 2436524
Conc: 17.89 ng/ml



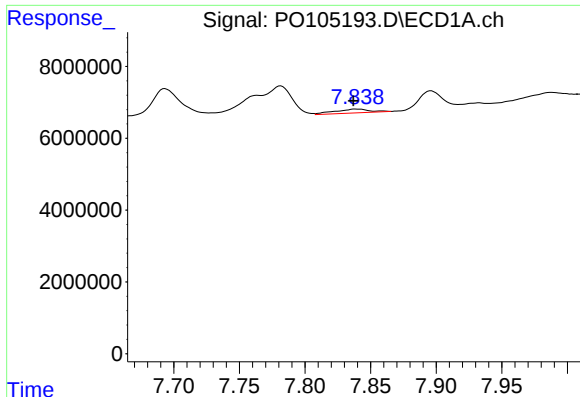
#32 AR-1260-2

R.T.: 7.475 min
Delta R.T.: 0.001 min
Response: 29287492
Conc: 80.53 ng/ml



#32 AR-1260-2

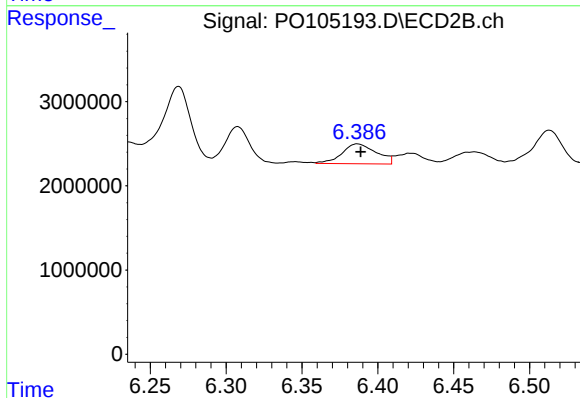
R.T.: 6.235 min
Delta R.T.: -0.003 min
Response: 2065593
Conc: 12.28 ng/ml



#33 AR-1260-3

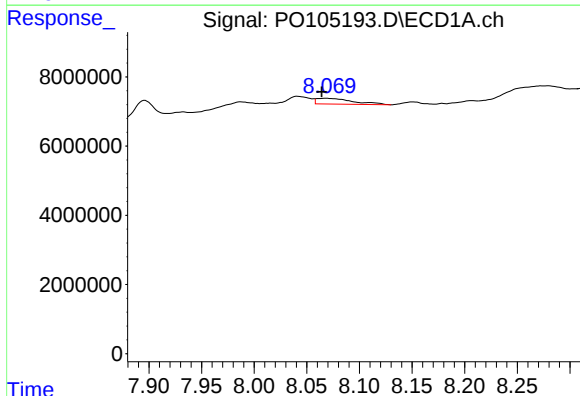
R.T.: 7.840 min
Delta R.T.: 0.003 min
Response: 1977654
Conc: 7.71 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



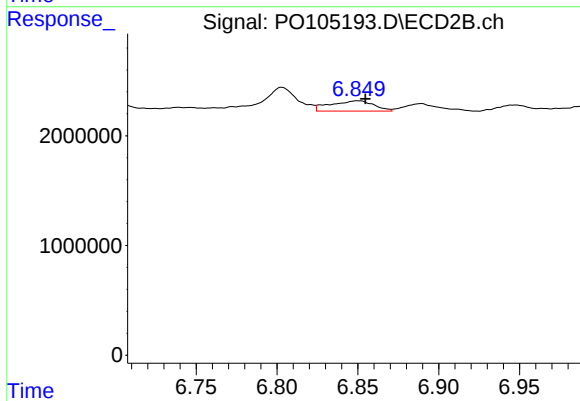
#33 AR-1260-3

R.T.: 6.387 min
Delta R.T.: -0.002 min
Response: 3732838
Conc: 22.13 ng/ml



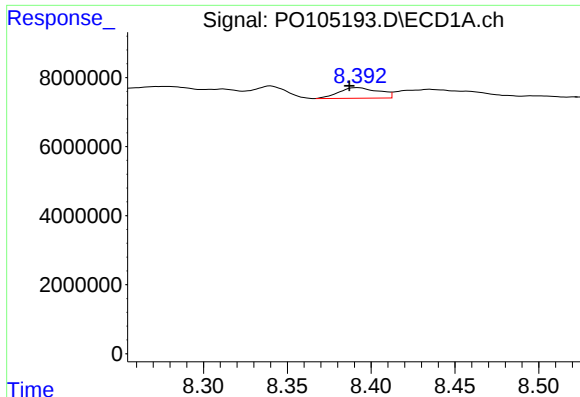
#34 AR-1260-4

R.T.: 8.069 min
Delta R.T.: 0.004 min
Response: 3974982
Conc: 13.94 ng/ml



#34 AR-1260-4

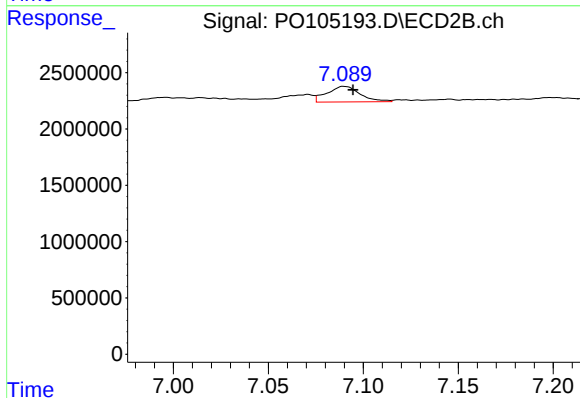
R.T.: 6.850 min
Delta R.T.: -0.005 min
Response: 1761526
Conc: 16.09 ng/ml



#35 AR-1260-5

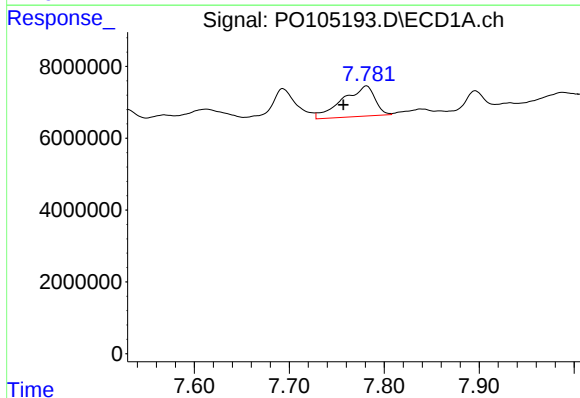
R.T.: 8.392 min
Delta R.T.: 0.005 min
Response: 5079041
Conc: 9.09 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



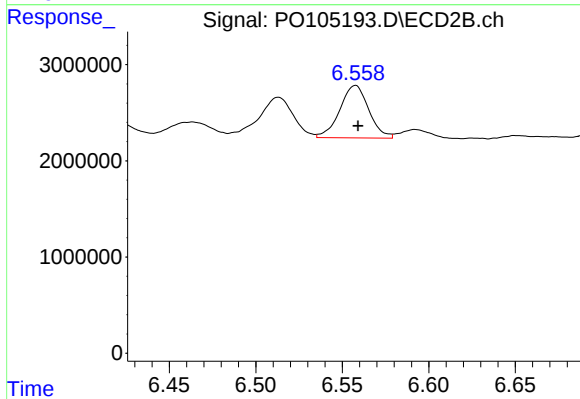
#35 AR-1260-5

R.T.: 7.090 min
Delta R.T.: -0.005 min
Response: 1672908
Conc: 6.54 ng/ml



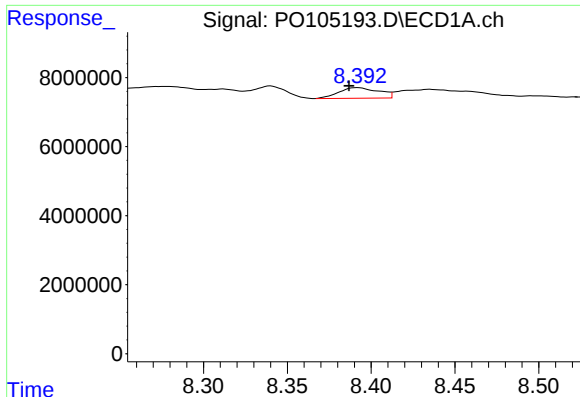
#36 AR-1262-1

R.T.: 7.781 min
Delta R.T.: 0.024 min
Response: 20005751
Conc: 68.73 ng/ml



#36 AR-1262-1

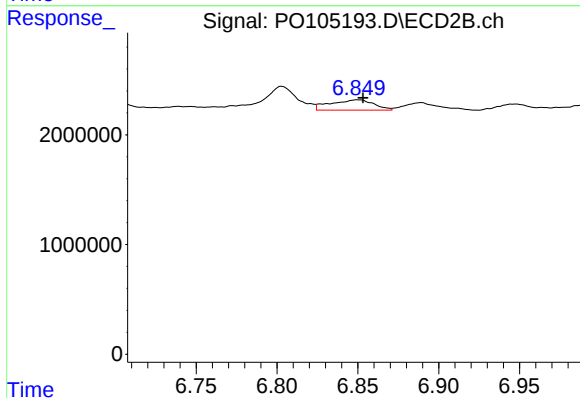
R.T.: 6.558 min
Delta R.T.: -0.002 min
Response: 6337478
Conc: 62.68 ng/ml



#37 AR-1262-2

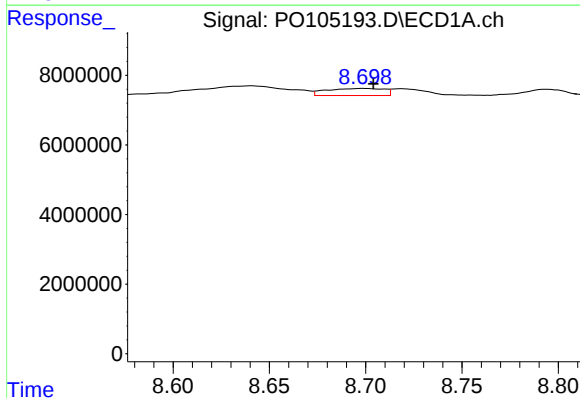
R.T.: 8.392 min
Delta R.T.: 0.005 min
Response: 5079041
Conc: 6.91 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



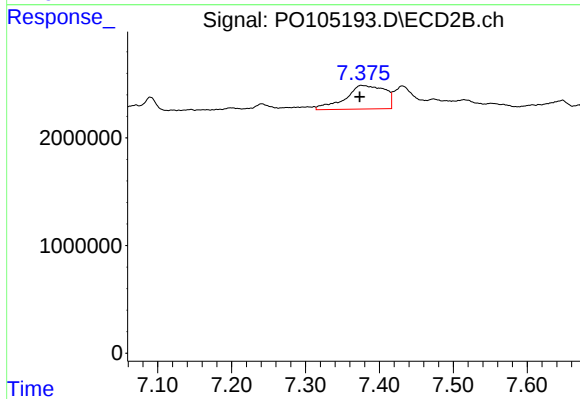
#37 AR-1262-2

R.T.: 6.850 min
Delta R.T.: -0.003 min
Response: 1761526
Conc: 10.66 ng/ml



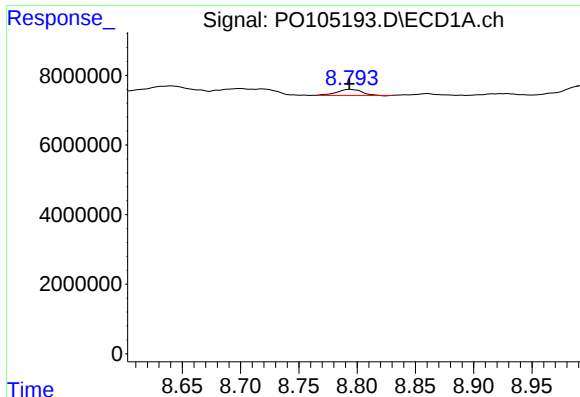
#38 AR-1262-3

R.T.: 8.699 min
Delta R.T.: -0.005 min
Response: 4211000
Conc: 8.85 ng/ml



#38 AR-1262-3

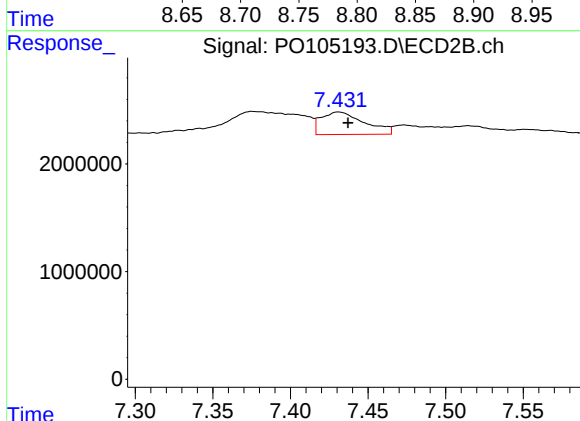
R.T.: 7.376 min
Delta R.T.: 0.002 min
Response: 8201050
Conc: 65.24 ng/ml



#39 AR-1262-4

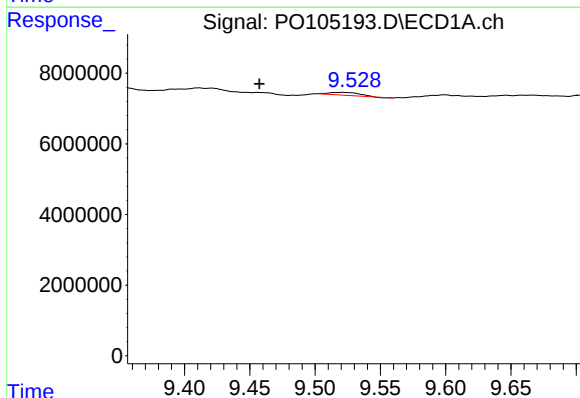
R.T.: 8.794 min
Delta R.T.: 0.000 min
Response: 2550983
Conc: 7.37 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



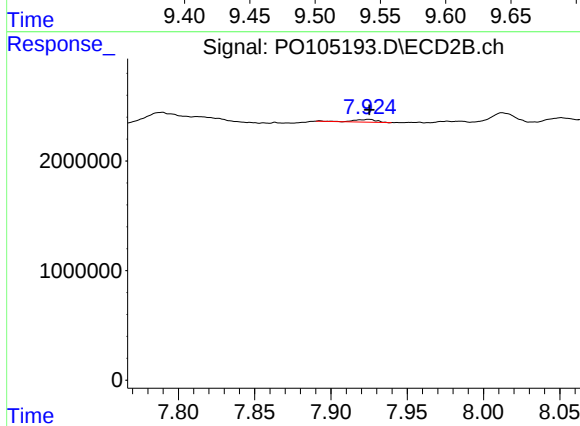
#39 AR-1262-4

R.T.: 7.431 min
Delta R.T.: -0.006 min
Response: 4081309
Conc: 17.79 ng/ml



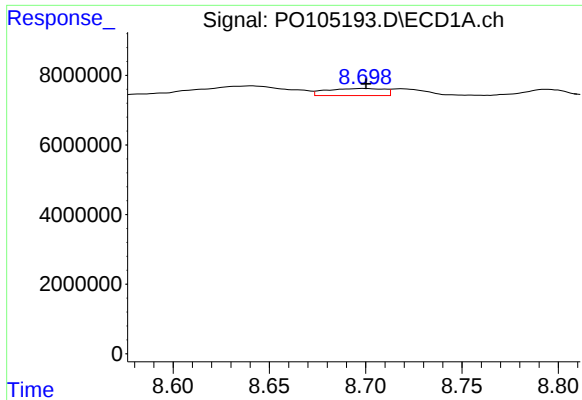
#40 AR-1262-5

R.T.: 9.521 min
Delta R.T.: 0.064 min
Response: 1256472
Conc: 5.08 ng/ml



#40 AR-1262-5

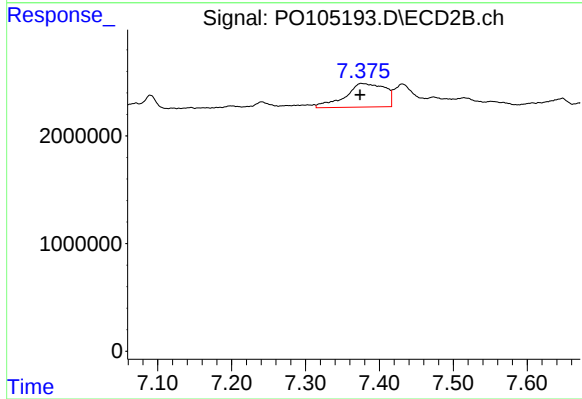
R.T.: 7.925 min
Delta R.T.: 0.000 min
Response: 252570
Conc: 2.57 ng/ml



#41 AR-1268-1

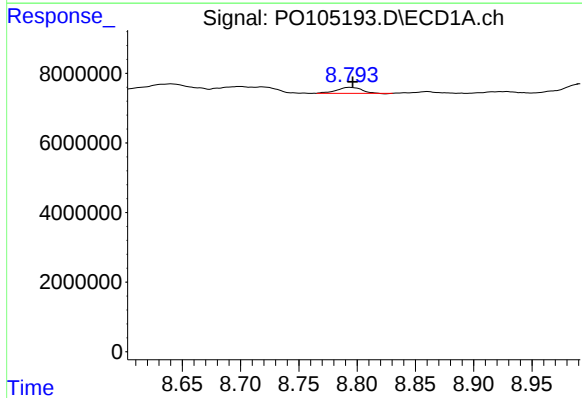
R.T.: 8.699 min
Delta R.T.: 0.000 min
Response: 4211000
Conc: 5.34 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



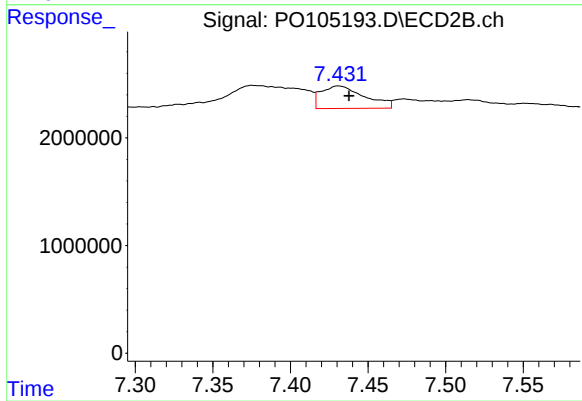
#41 AR-1268-1

R.T.: 7.376 min
Delta R.T.: 0.002 min
Response: 8201050
Conc: 23.31 ng/ml



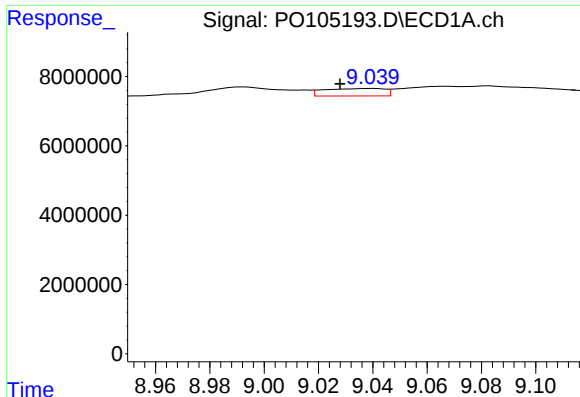
#42 AR-1268-2

R.T.: 8.794 min
Delta R.T.: -0.002 min
Response: 2550983
Conc: 3.68 ng/ml



#42 AR-1268-2

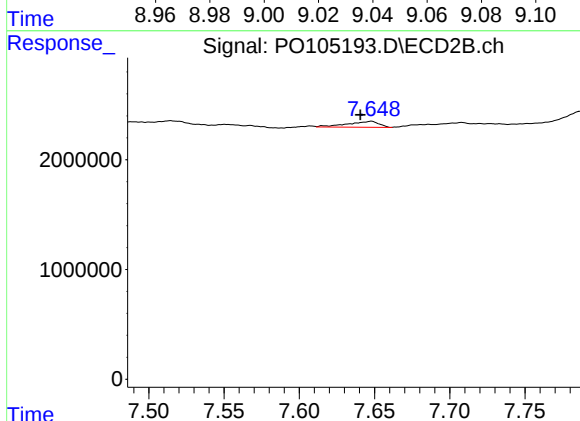
R.T.: 7.431 min
Delta R.T.: -0.007 min
Response: 4081309
Conc: 13.16 ng/ml



#43 AR-1268-3

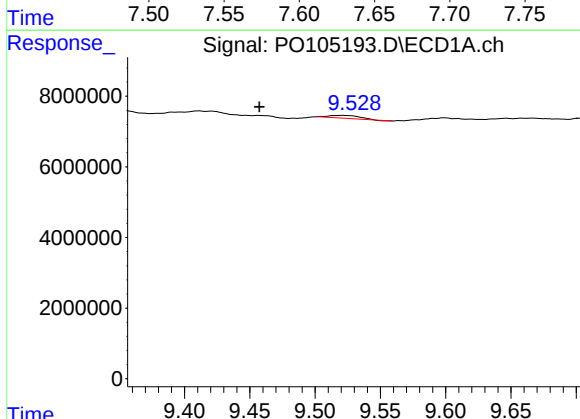
R.T.: 9.039 min
Delta R.T.: 0.011 min
Response: 3324446
Conc: 5.57 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



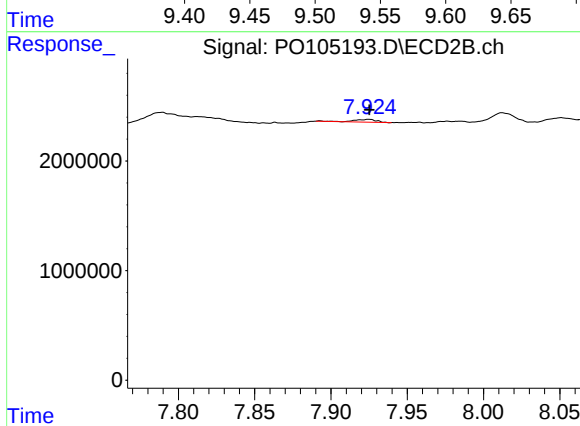
#43 AR-1268-3

R.T.: 7.648 min
Delta R.T.: 0.007 min
Response: 769273
Conc: 3.06 ng/ml



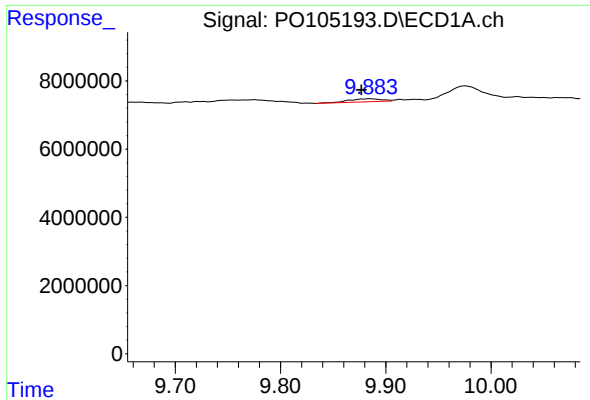
#44 AR-1268-4

R.T.: 9.521 min
Delta R.T.: 0.063 min
Response: 1256472
Conc: 4.98 ng/ml



#44 AR-1268-4

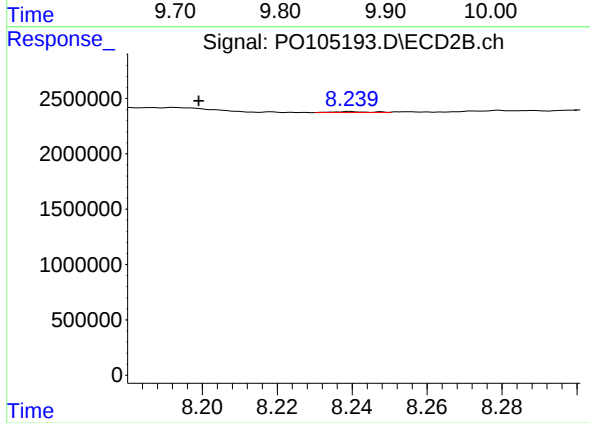
R.T.: 7.925 min
Delta R.T.: 0.000 min
Response: 252570
Conc: 2.43 ng/ml



#45 AR-1268-5

R.T.: 9.885 min
Delta R.T.: 0.008 min
Response: 1882316
Conc: 0.96 ng/ml

Instrument :
ECD_O
ClientSampleId :
72-11929



#45 AR-1268-5

R.T.: 8.239 min
Delta R.T.: 0.040 min
Response: 65927
Conc: 0.10 ng/ml