2-deoxycytidine pos MQ original 4 3 . Concentration (ng/mL) type blank sample 0

30

40

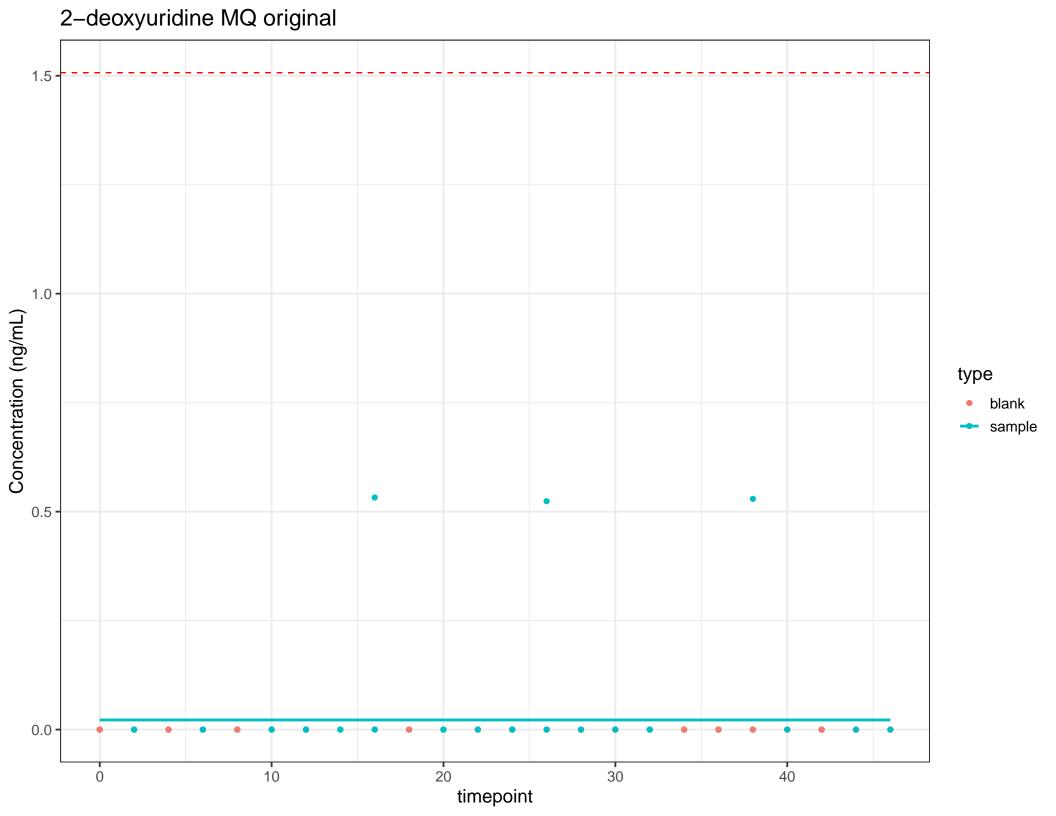
20

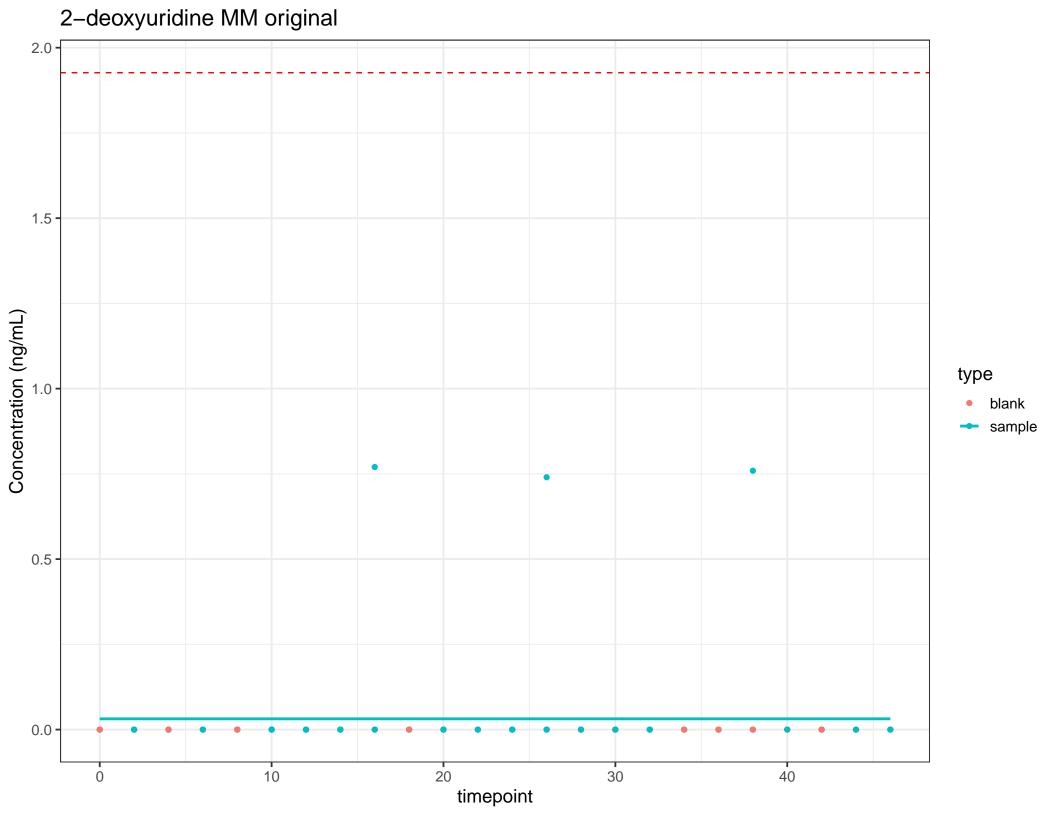
timepoint

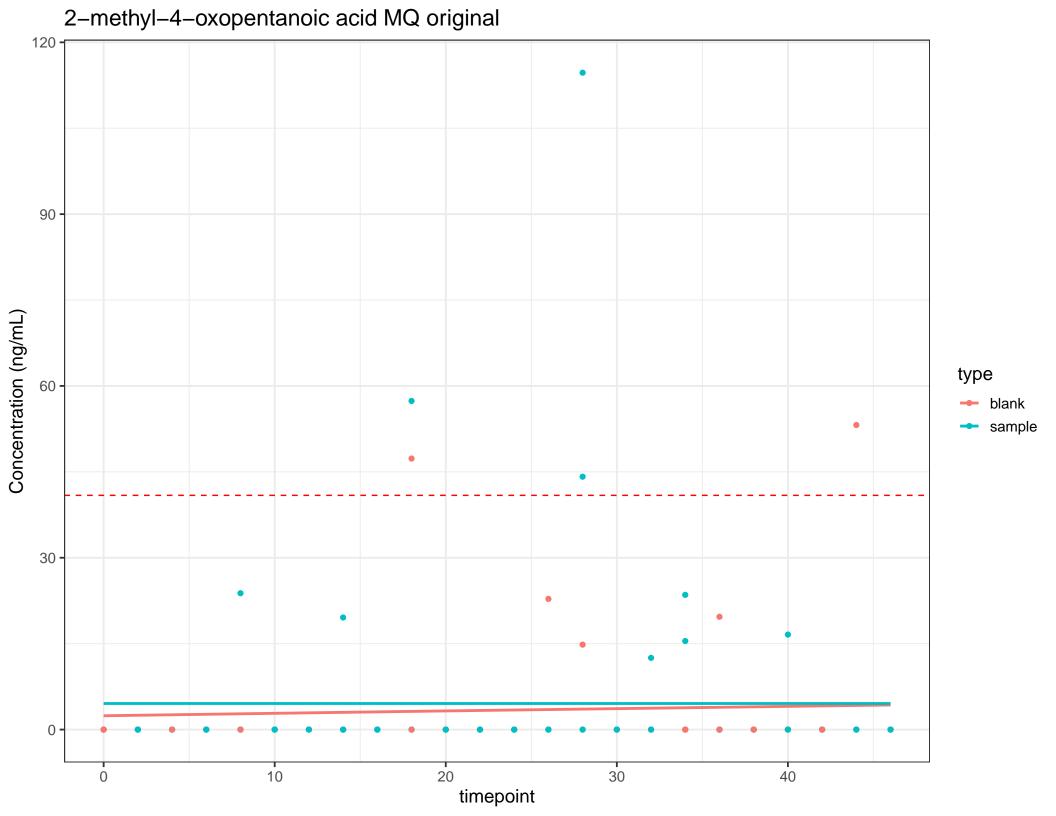
10

2-deoxycytidine pos MM original 2.0 1.5 -Concentration (ng/mL) type blank sample 0.5 0.0 10 20 30 40 0

timepoint





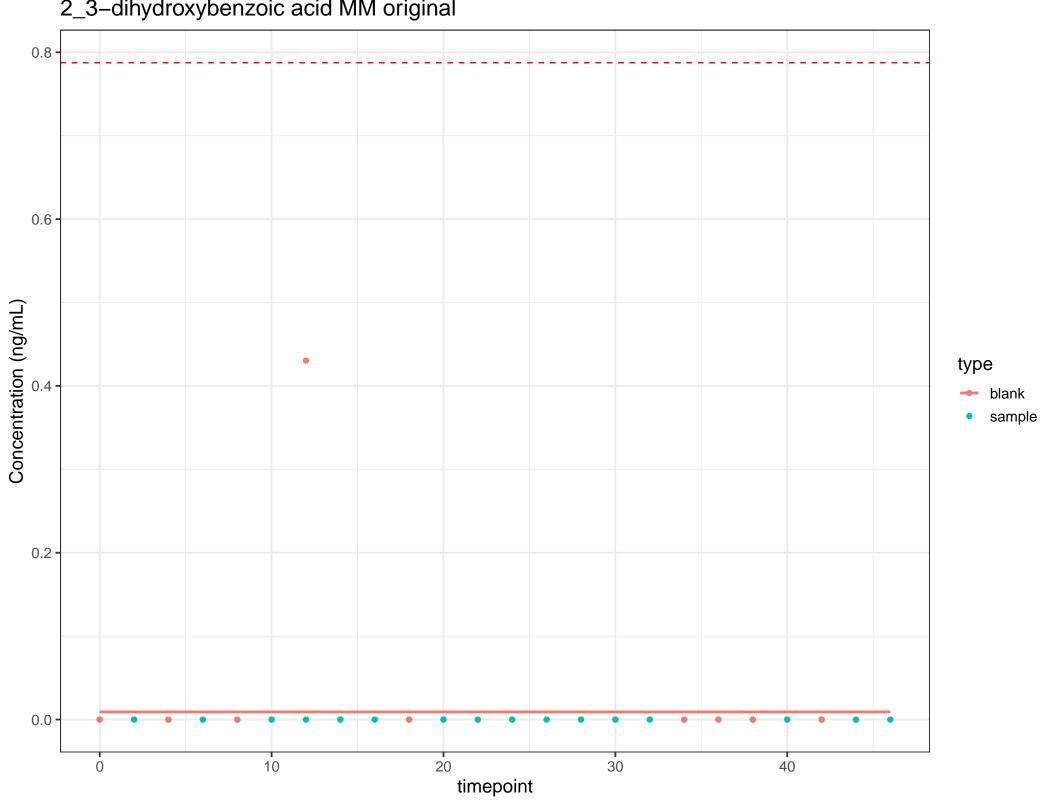


2-methyl-4-oxopentanoic acid MM original 150 -Concentration (ng/mL) type blank sample 50 0 -20 10 40

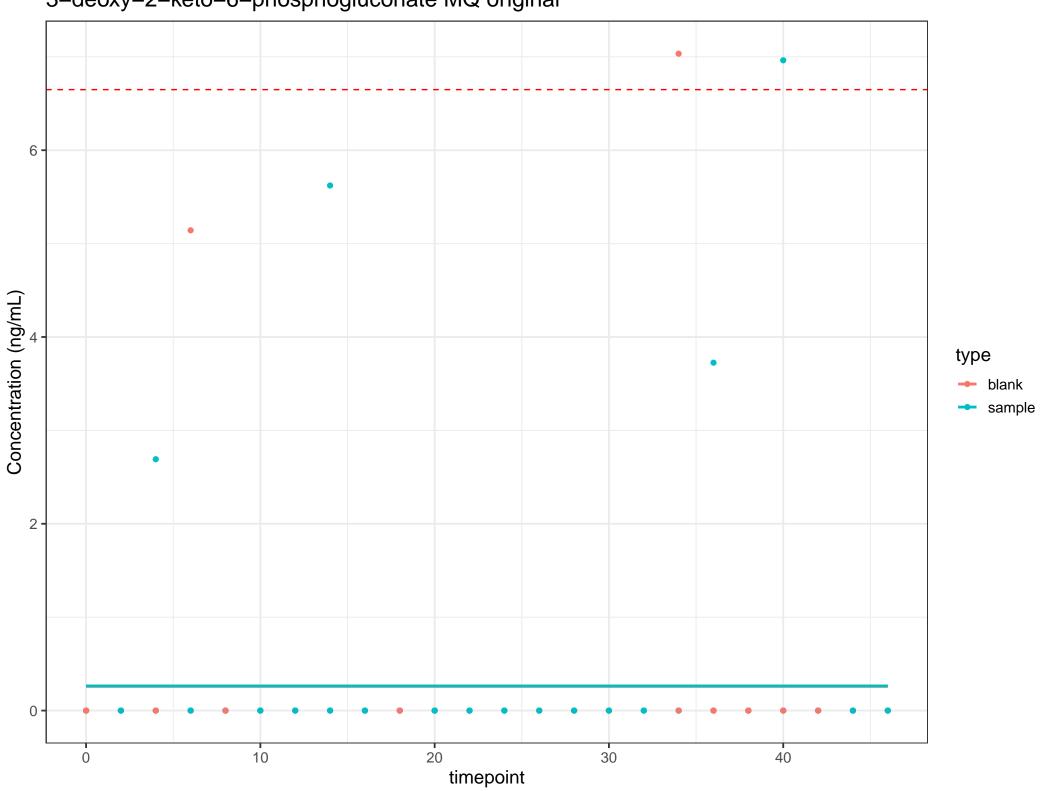
30

timepoint

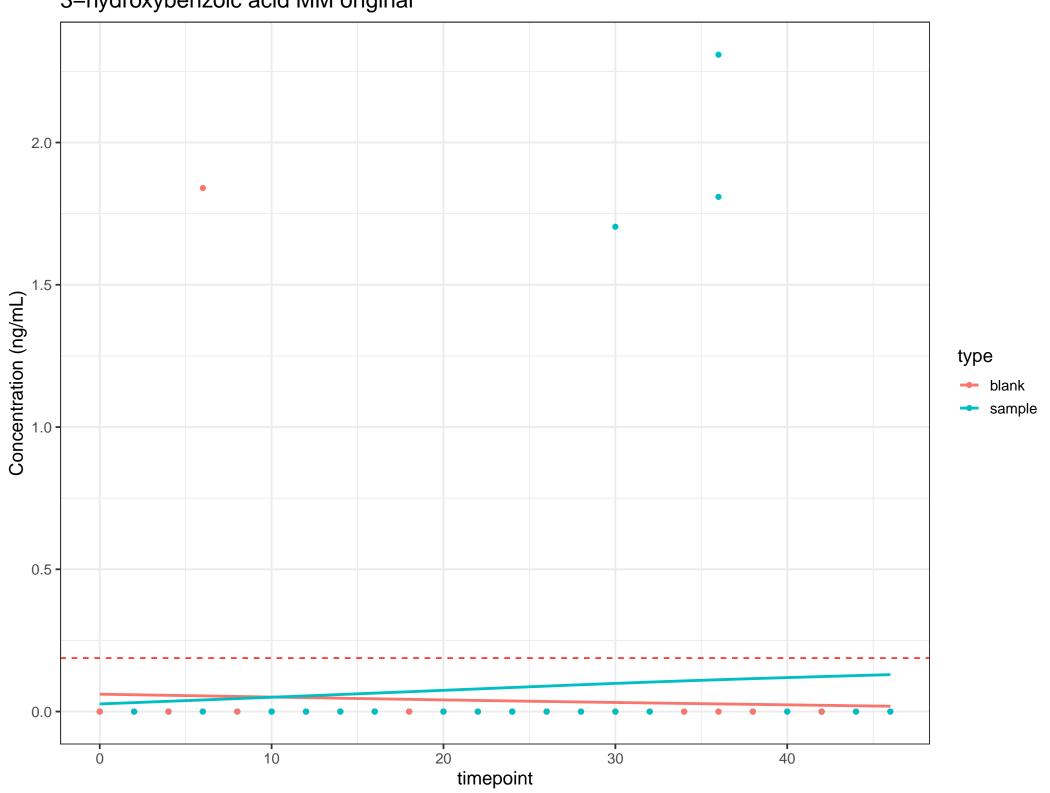
2_3-dihydroxybenzoic acid MM original



3-deoxy-2-keto-6-phosphogluconate MQ original

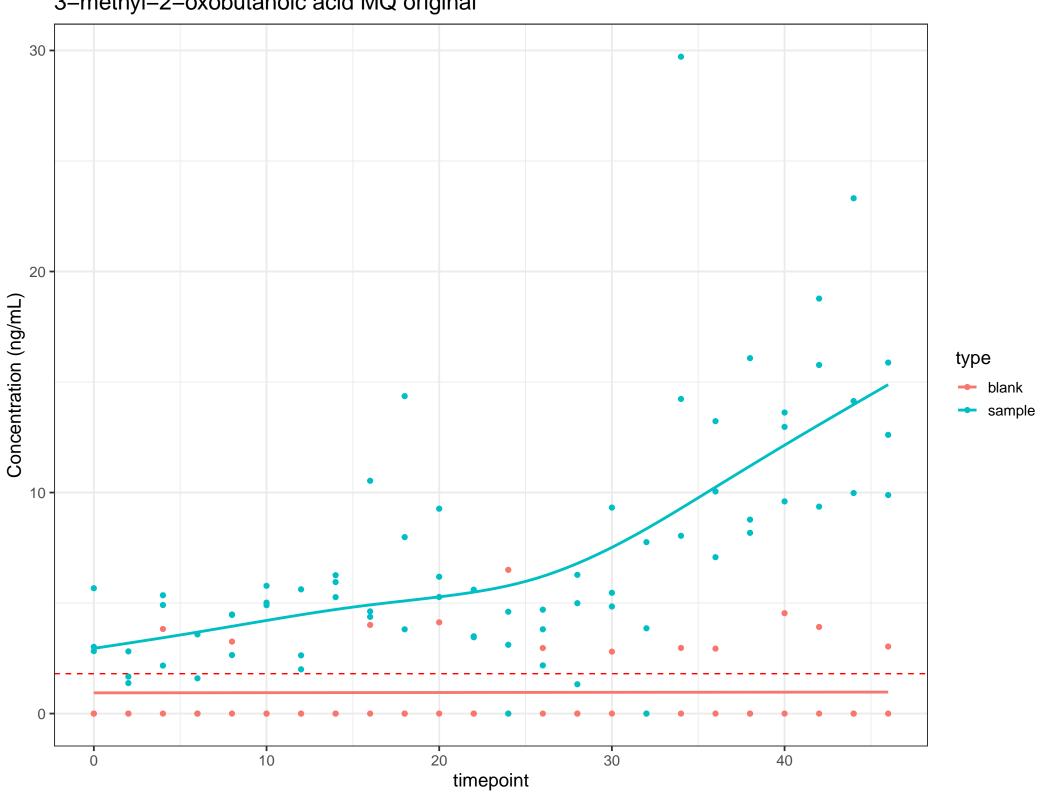


3-hydroxybenzoic acid MM original

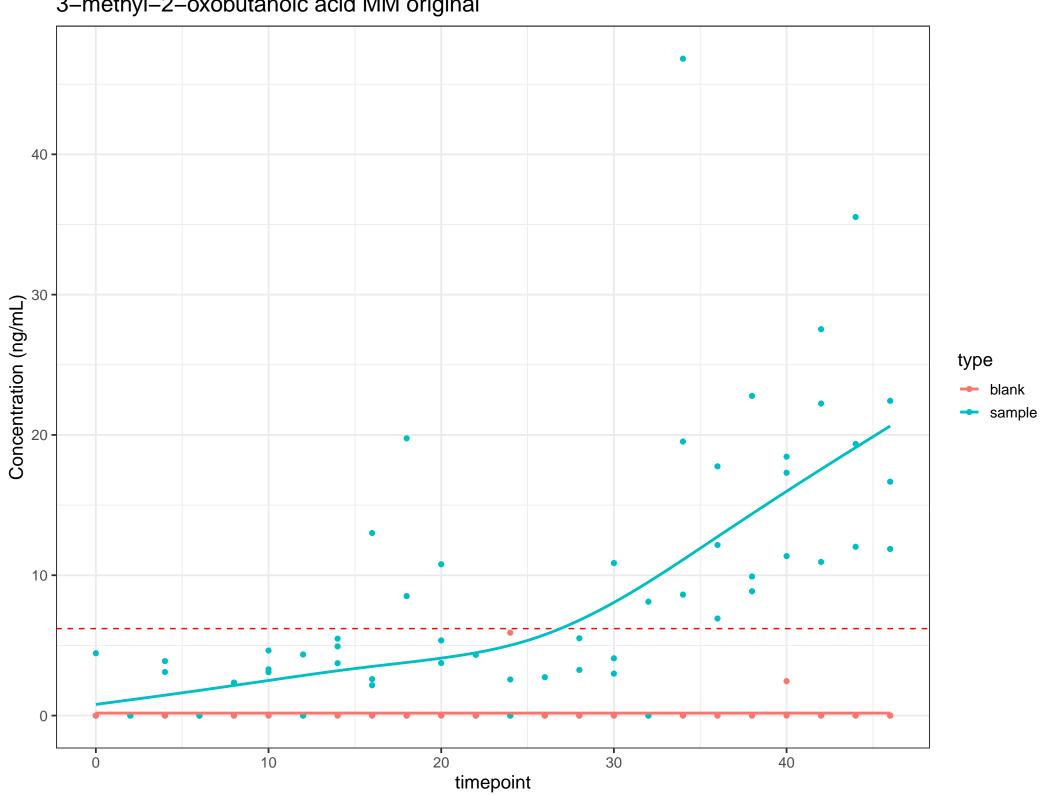


3-mercapto propionate MM original 8.0 0.6 Concentration (ng/mL) type blank sample 0.2 0.0 10 20 30 40 0 timepoint

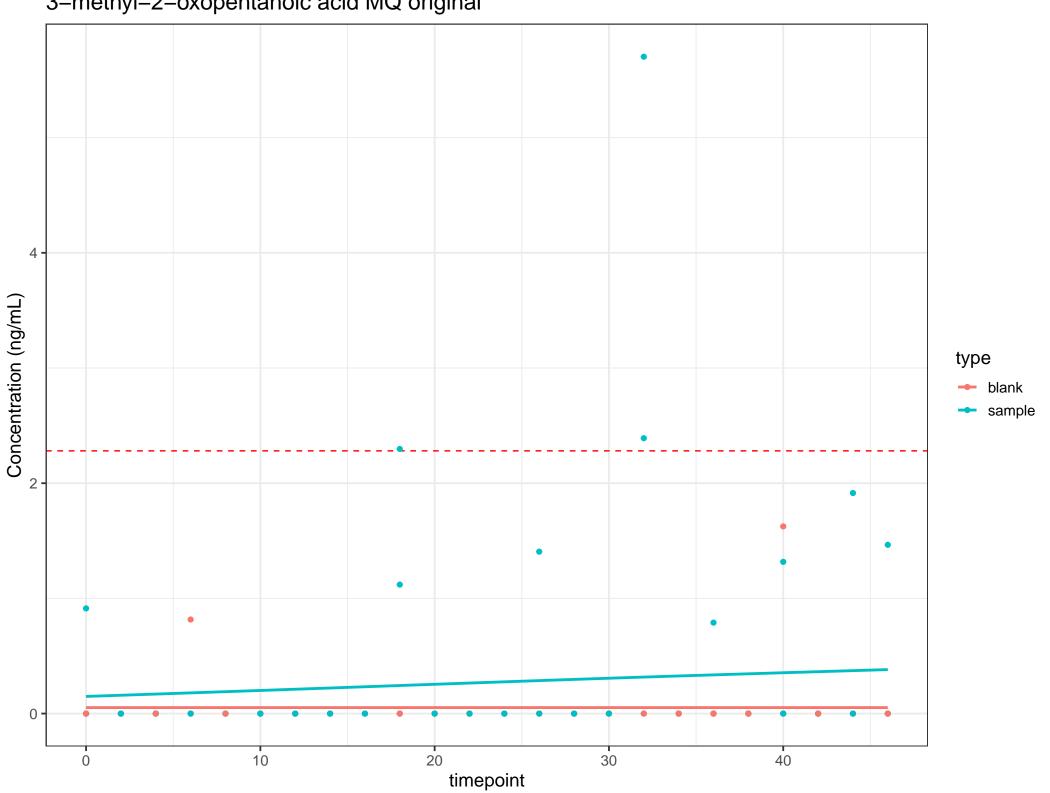
3-methyl-2-oxobutanoic acid MQ original



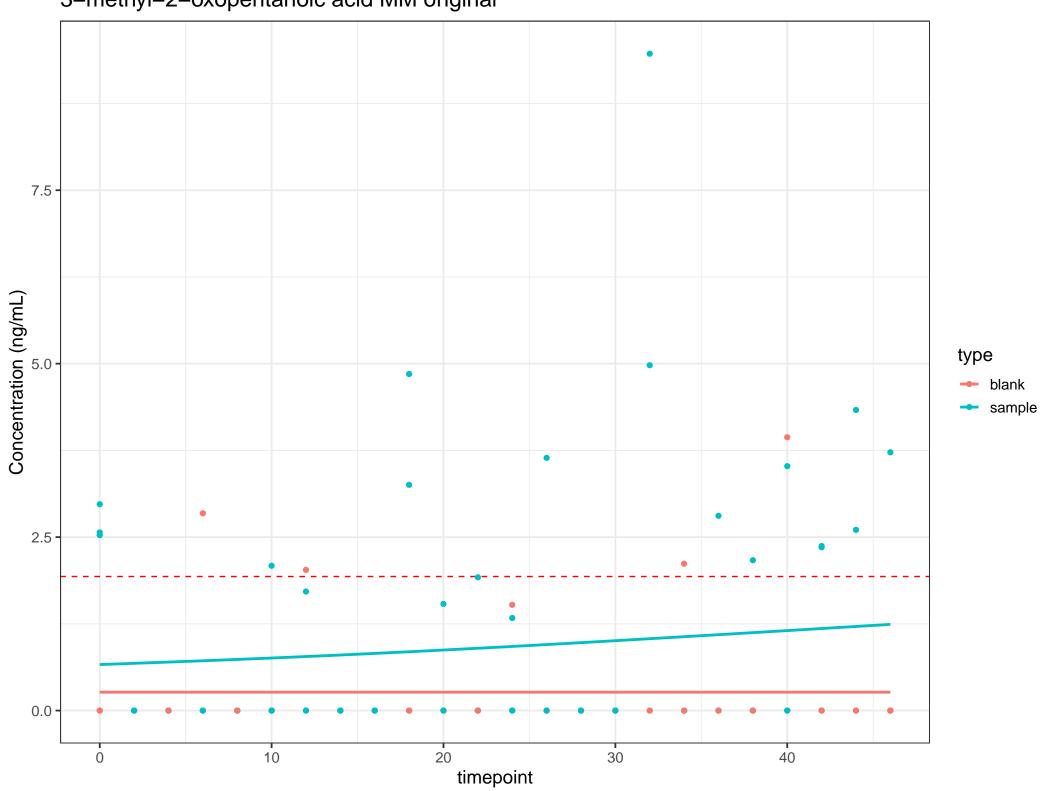
3-methyl-2-oxobutanoic acid MM original



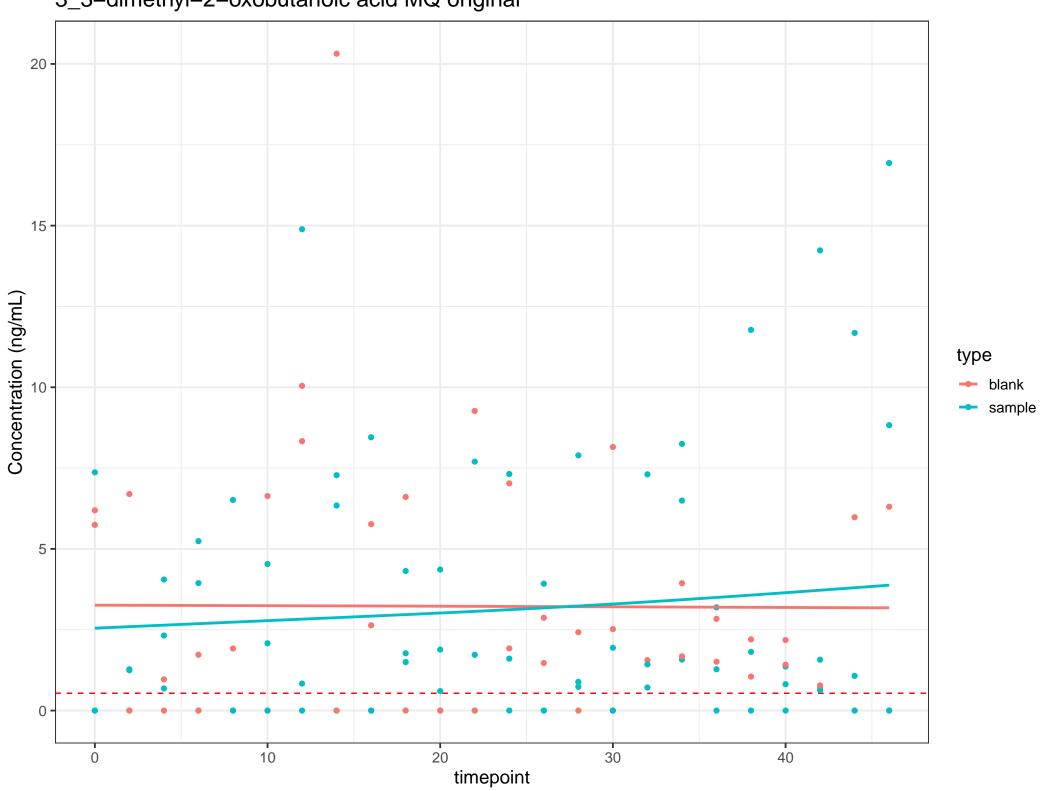
3-methyl-2-oxopentanoic acid MQ original



3-methyl-2-oxopentanoic acid MM original



3_3-dimethyl-2-oxobutanoic acid MQ original



3_3-dimethyl-2-oxobutanoic acid MM original 20 -Concentration (ng/mL) type blank sample 5 -0 -20 10 30 40 0 timepoint

4-aminobenzoic acid MQ original 1.0 -Concentration (ng/mL) type blank sample 0.0 10 20 30 40 0

timepoint

4-aminobenzoic acid MM original 3 Concentration (ng/mL) type blank sample 0 20

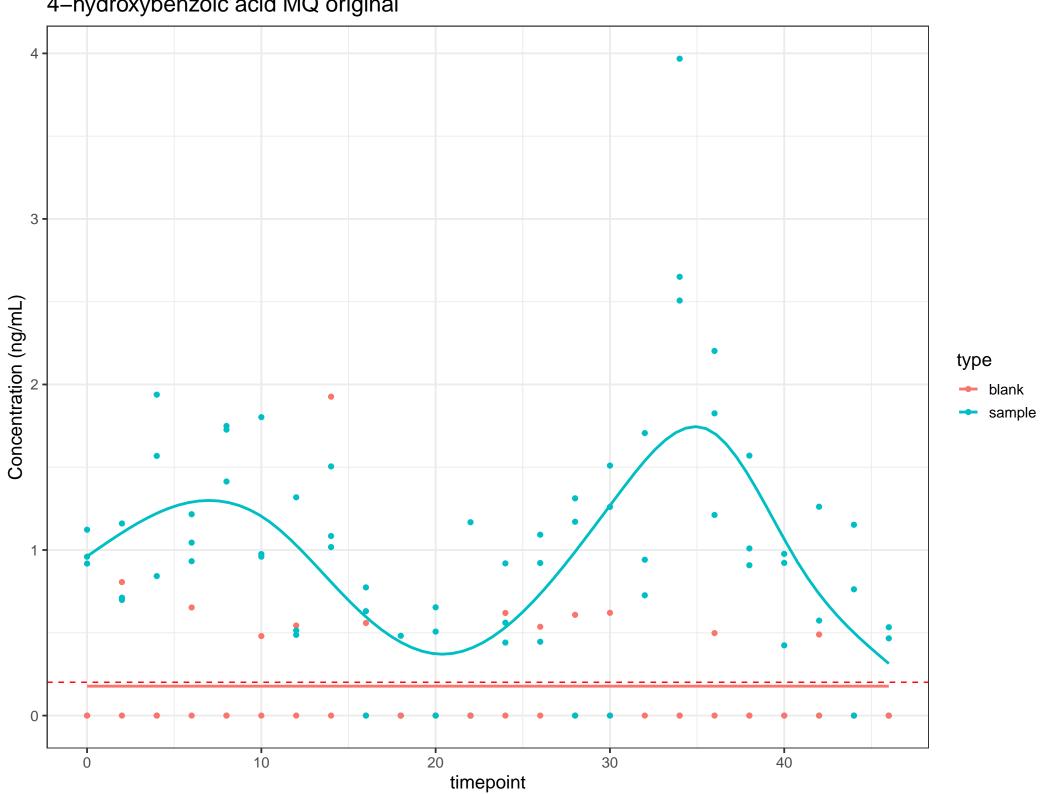
30

timepoint

40

10

4-hydroxybenzoic acid MQ original



4-hydroxybenzoic acid MM original 6 Concentration (ng/mL) type blank sample 0 20

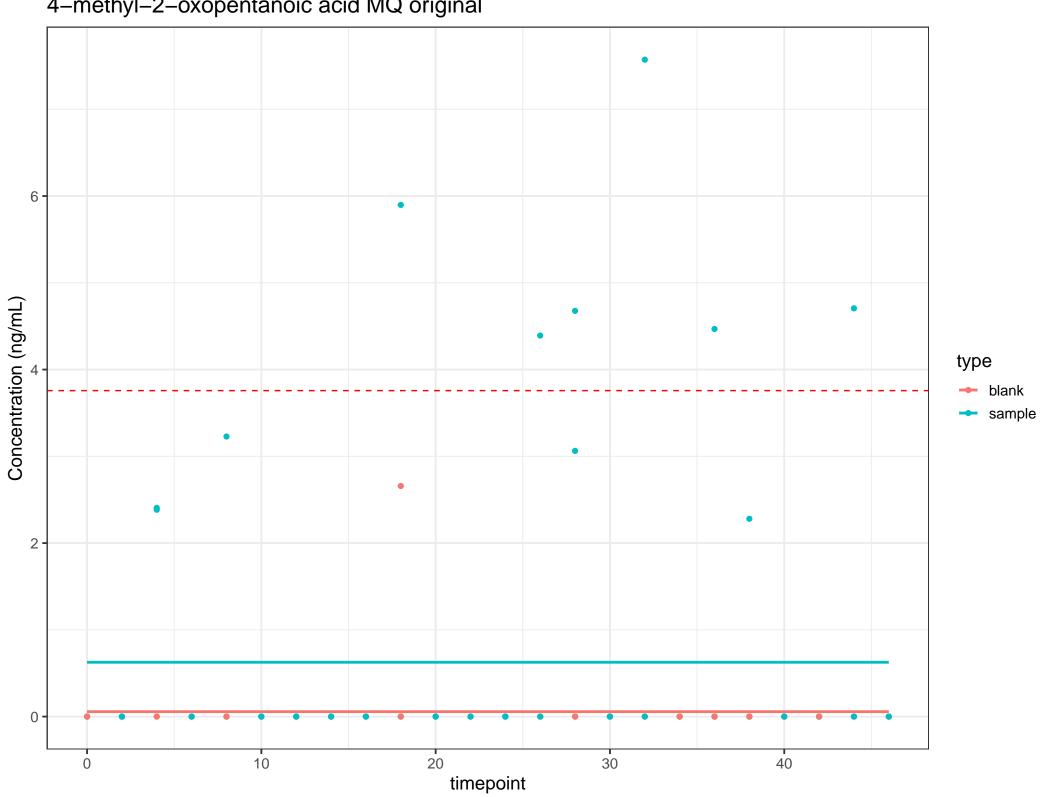
30

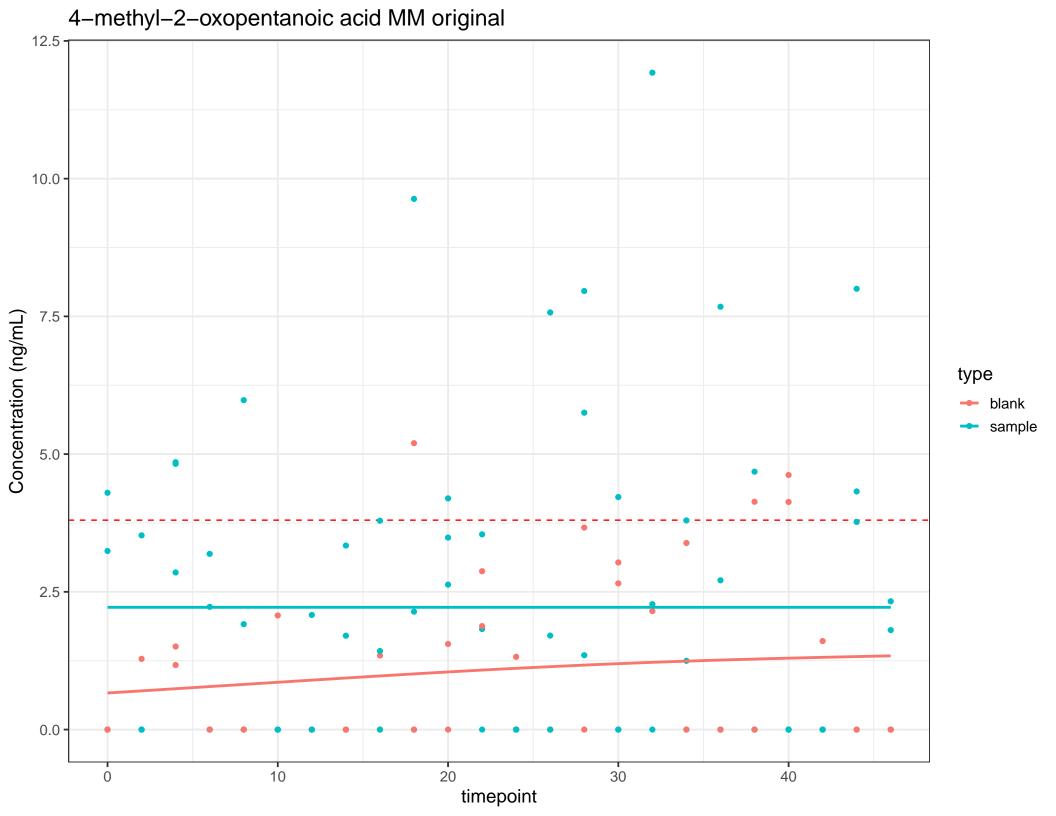
timepoint

40

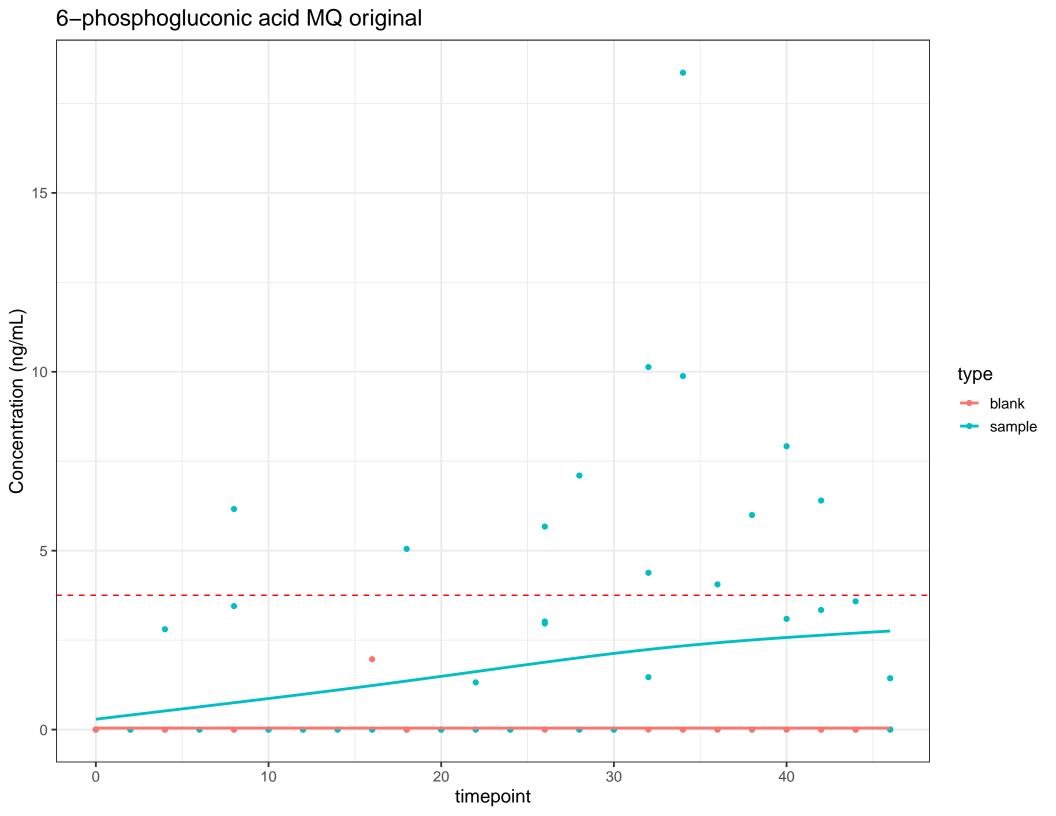
10

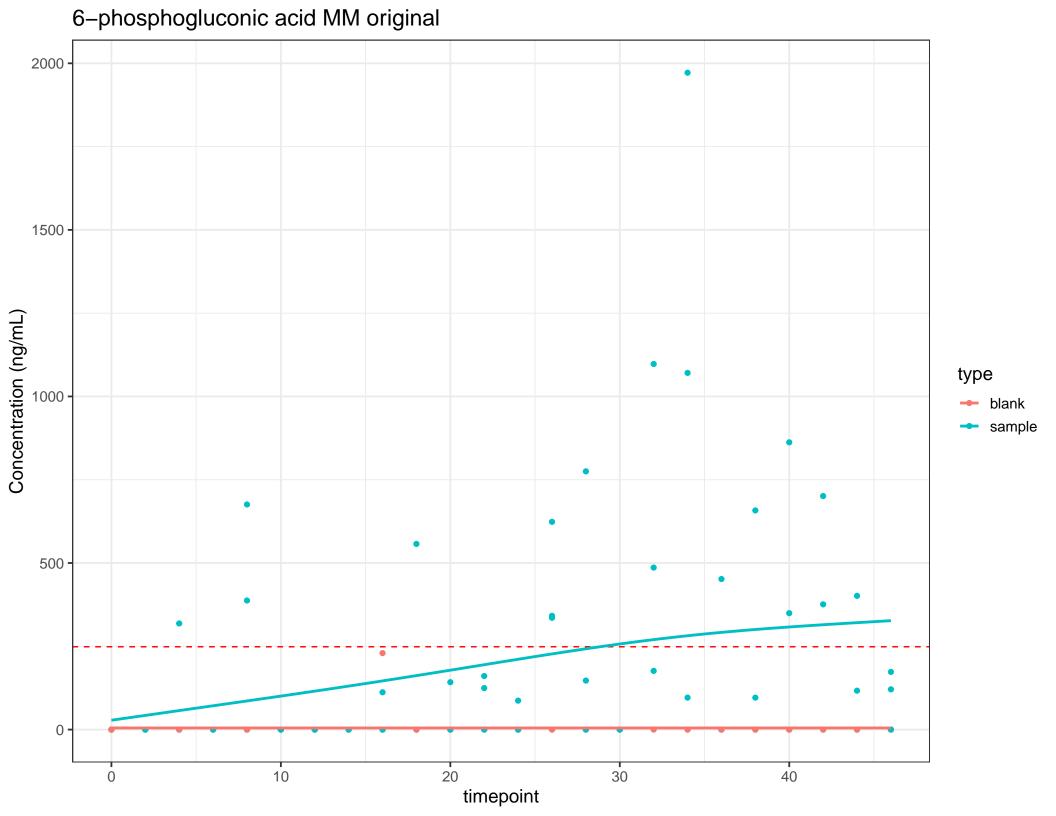
4-methyl-2-oxopentanoic acid MQ original

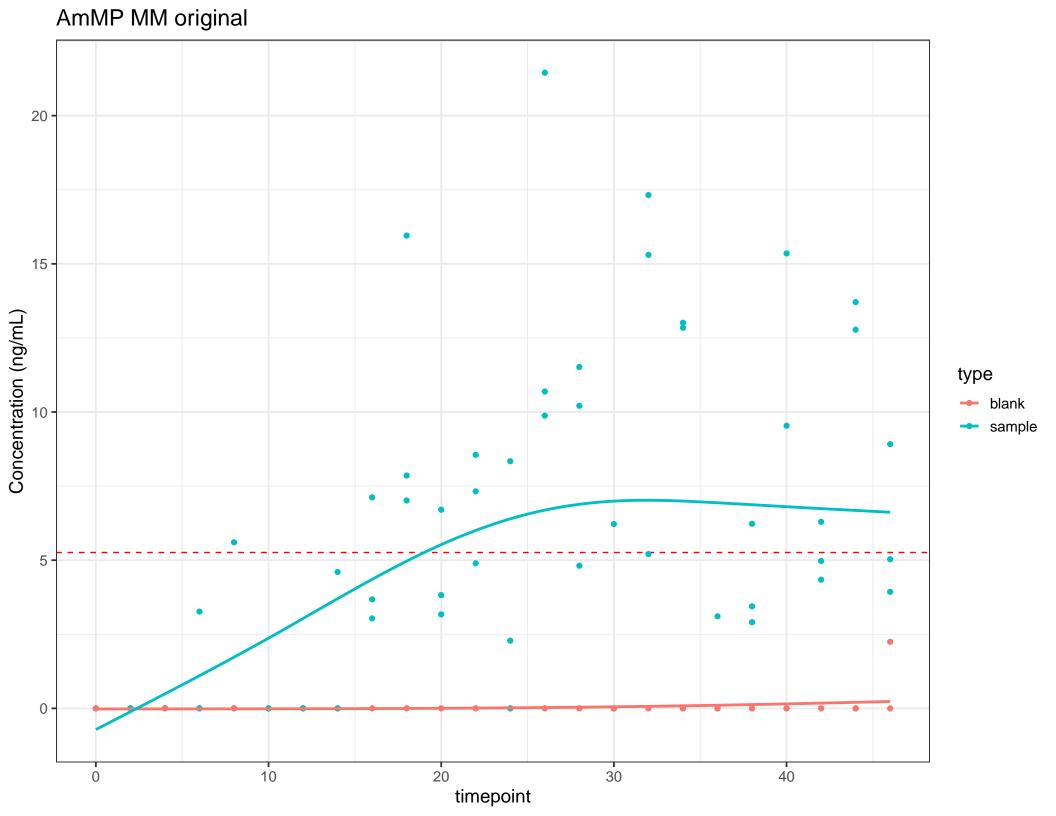


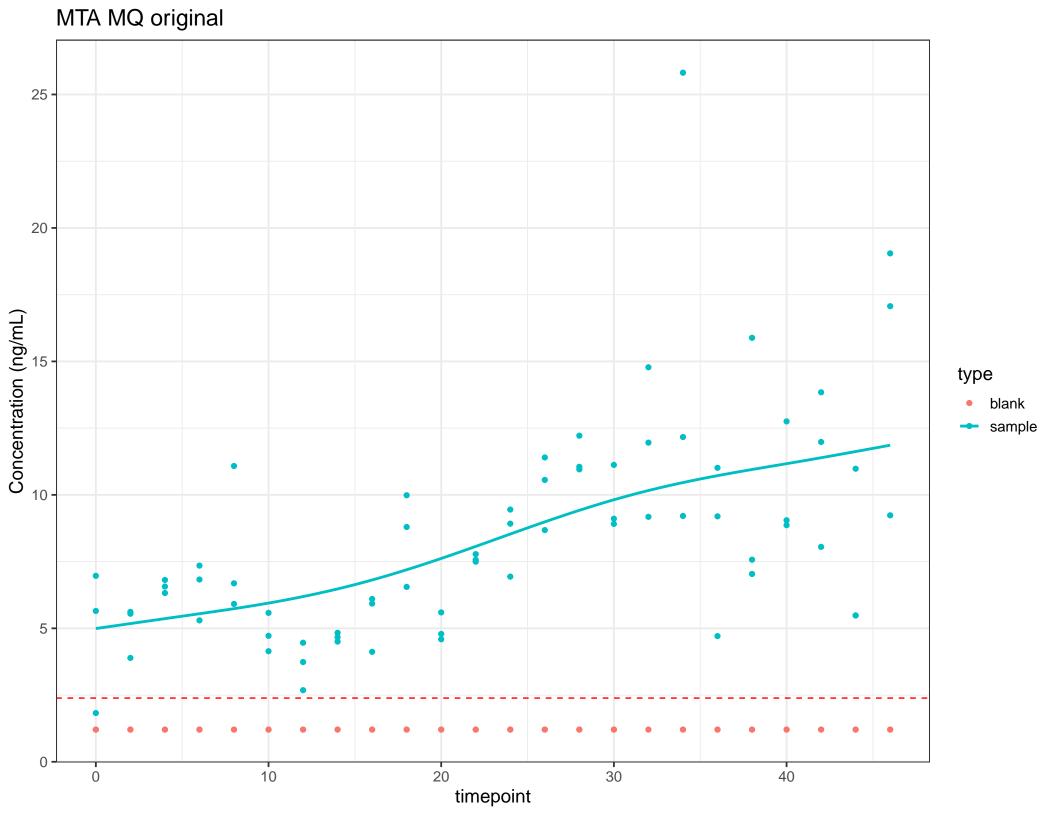


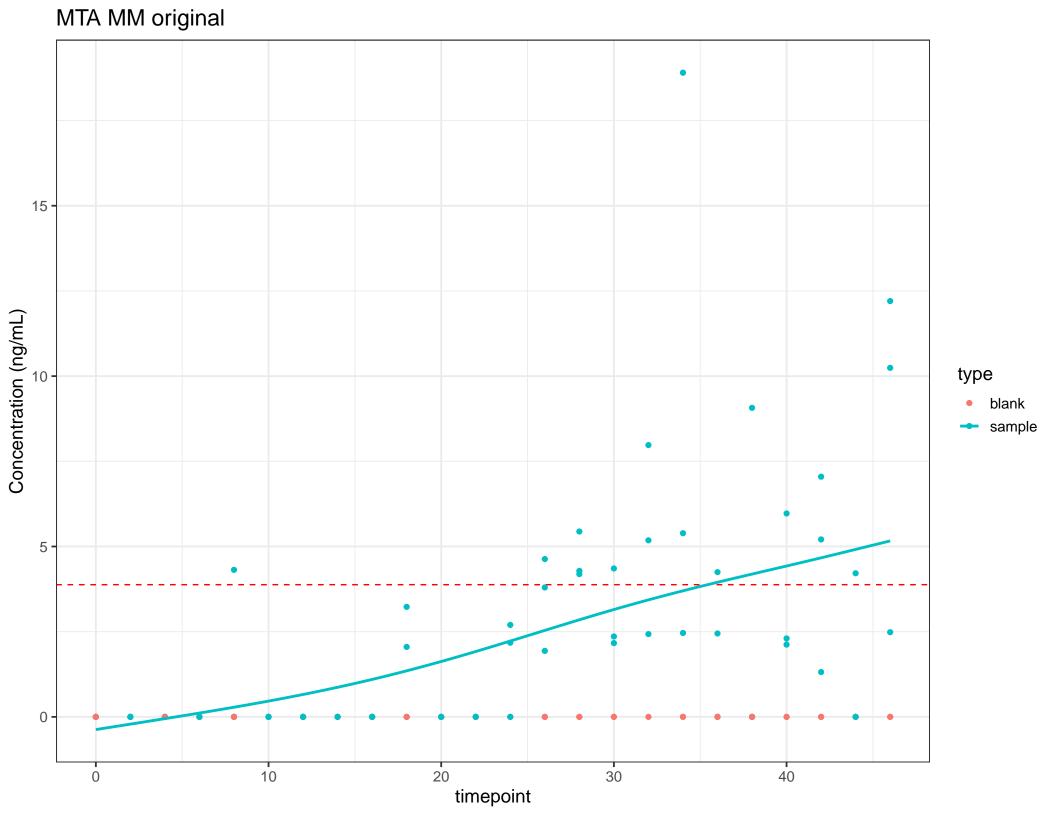
5-hydroxy-L-tryptophan204 MM original 1.00 -0.75 Concentration (ng/mL) type blank sample 0.25 0.00 10 20 30 40 0 timepoint

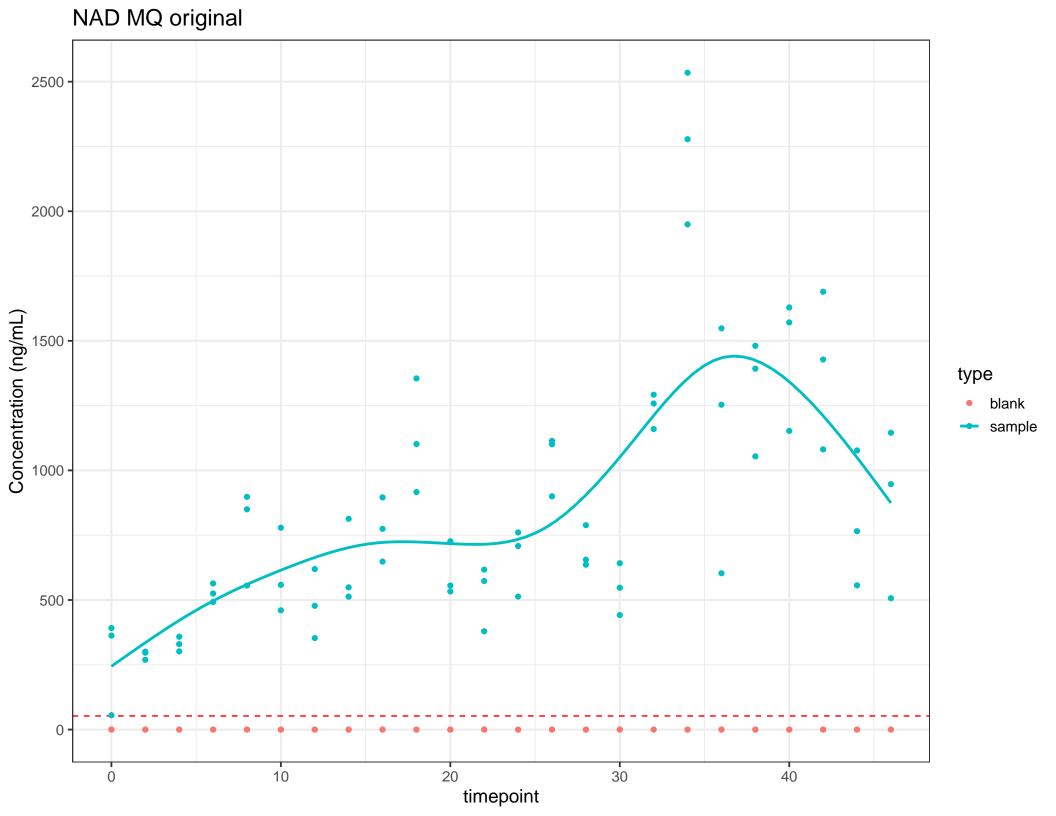




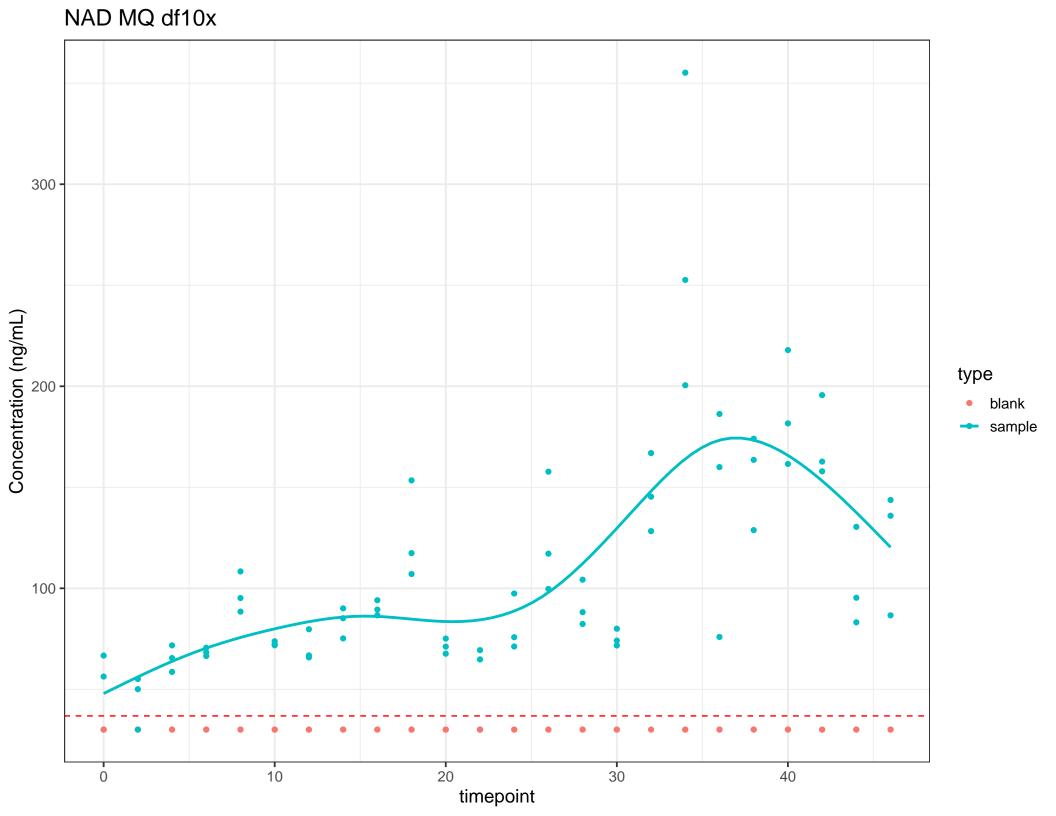


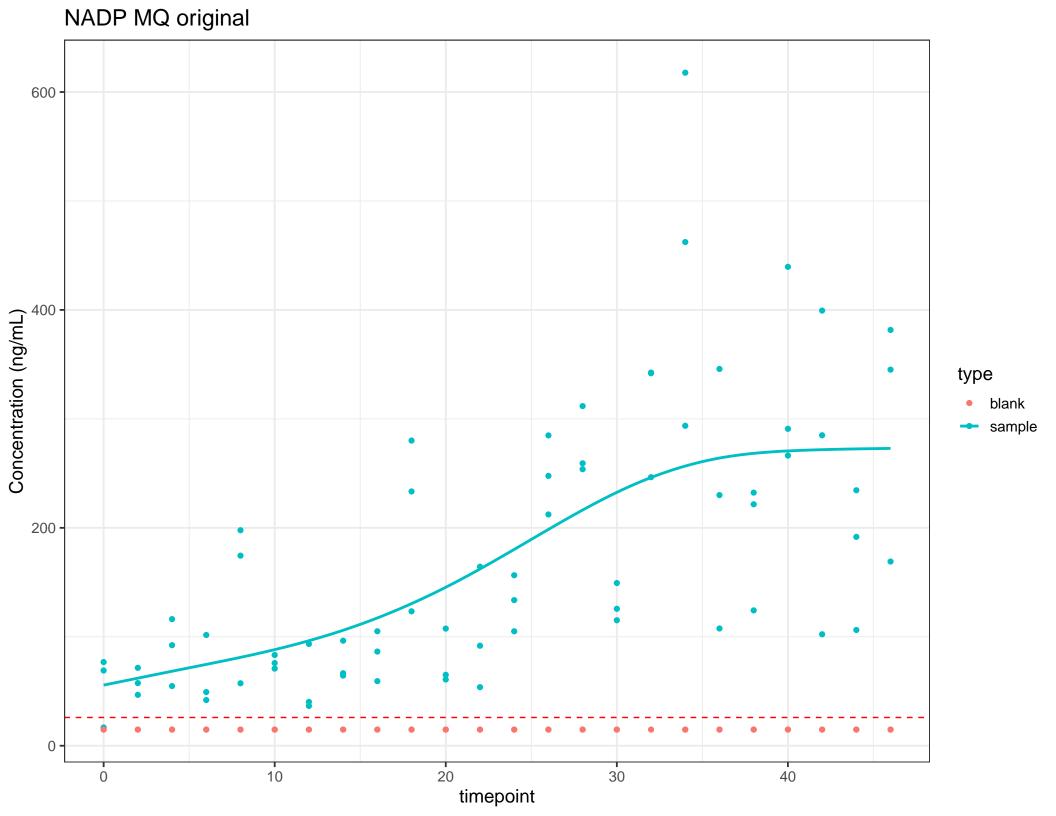






NAD MM original 2000 Concentration (ng/mL) type blank sample 0 20 10 30 40 0 timepoint



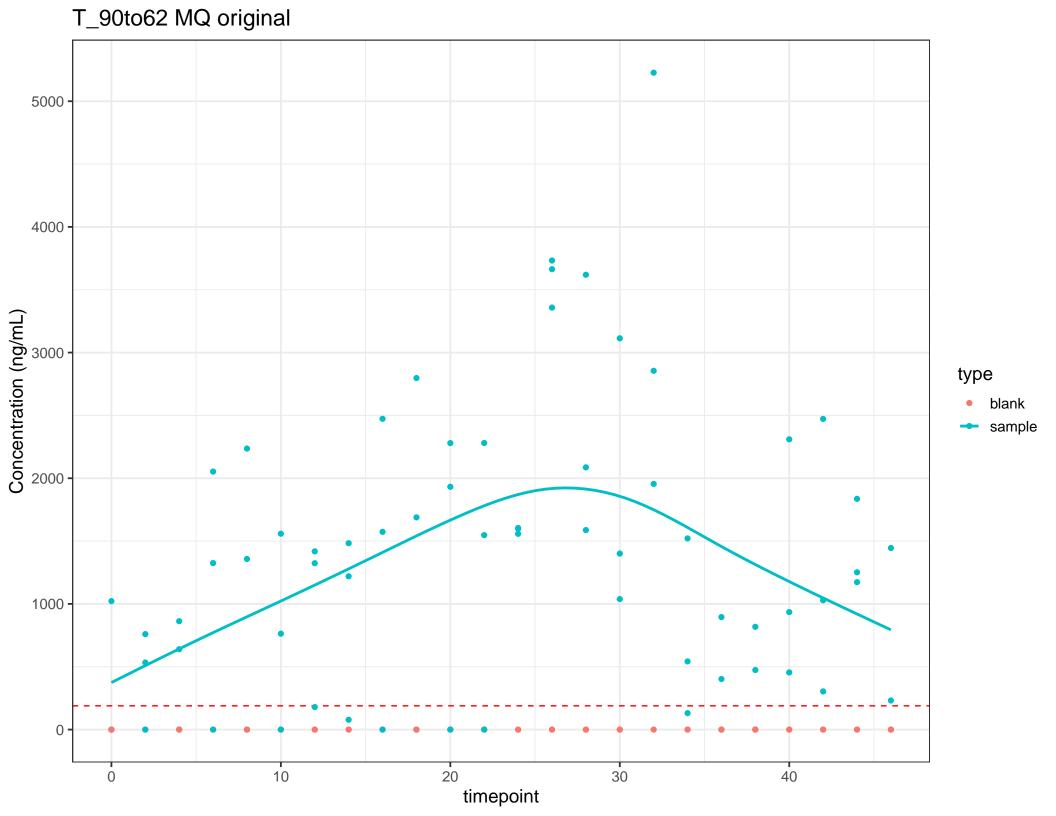


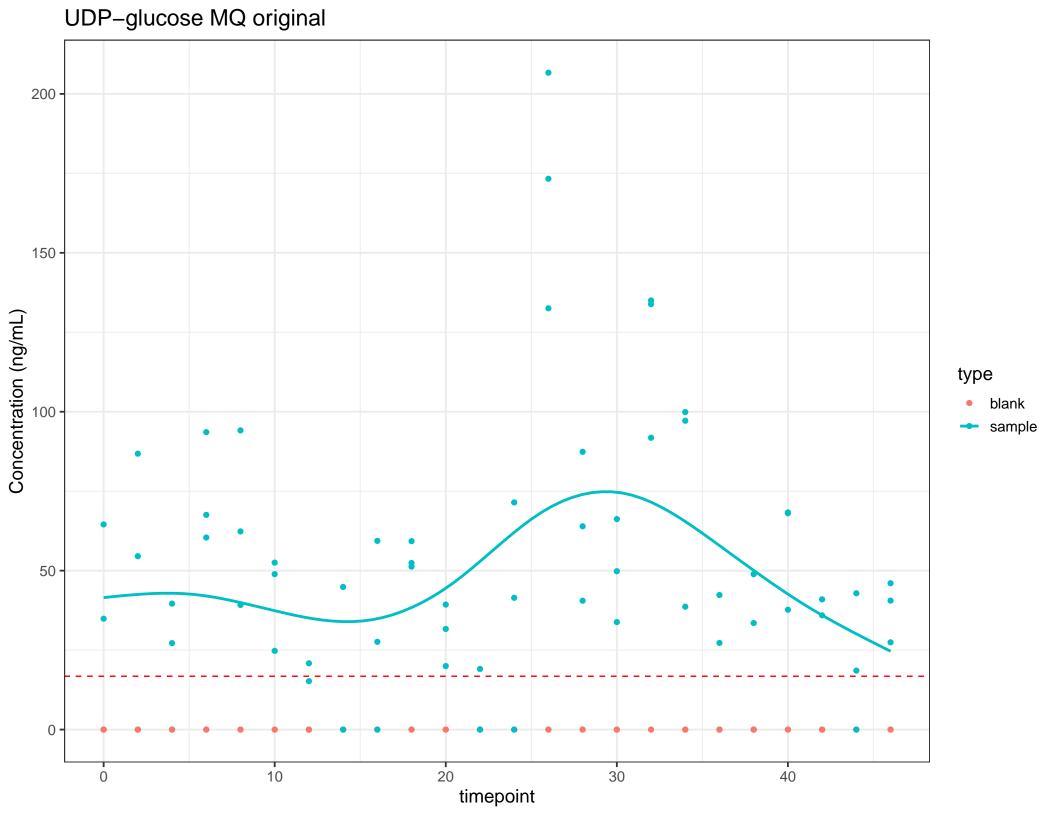
NADP MM original 2000 -Concentration (ng/mL) type blank sample 0 10 20 30 40 0 timepoint

T_90to27 MQ original 60 -Concentration (ng/mL) type blank sample 20 -0 -10 20 30 40 0 timepoint

T_90to27 MM original 9000 -Concentration (ng/mL) type blank sample 3000 20 10 30 40 0 timepoint

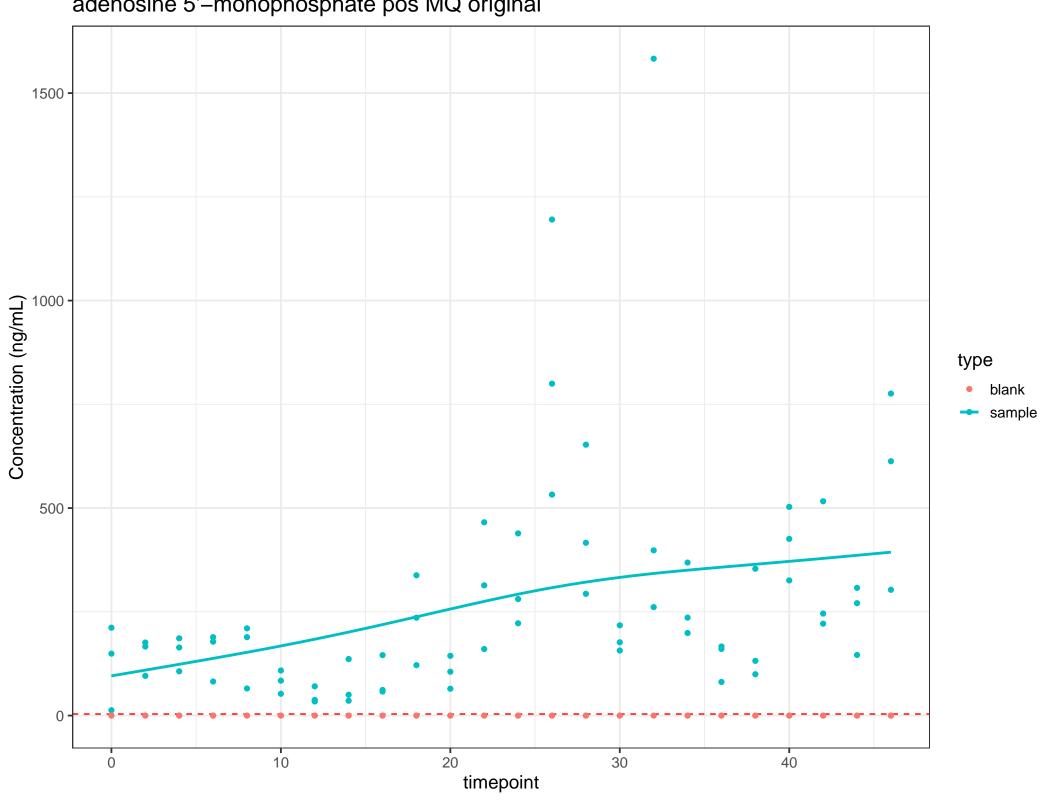
T_90to30 MQ original 120 -90 -Concentration (ng/mL) type blank sample 30 -0 -20 10 30 40 0 timepoint



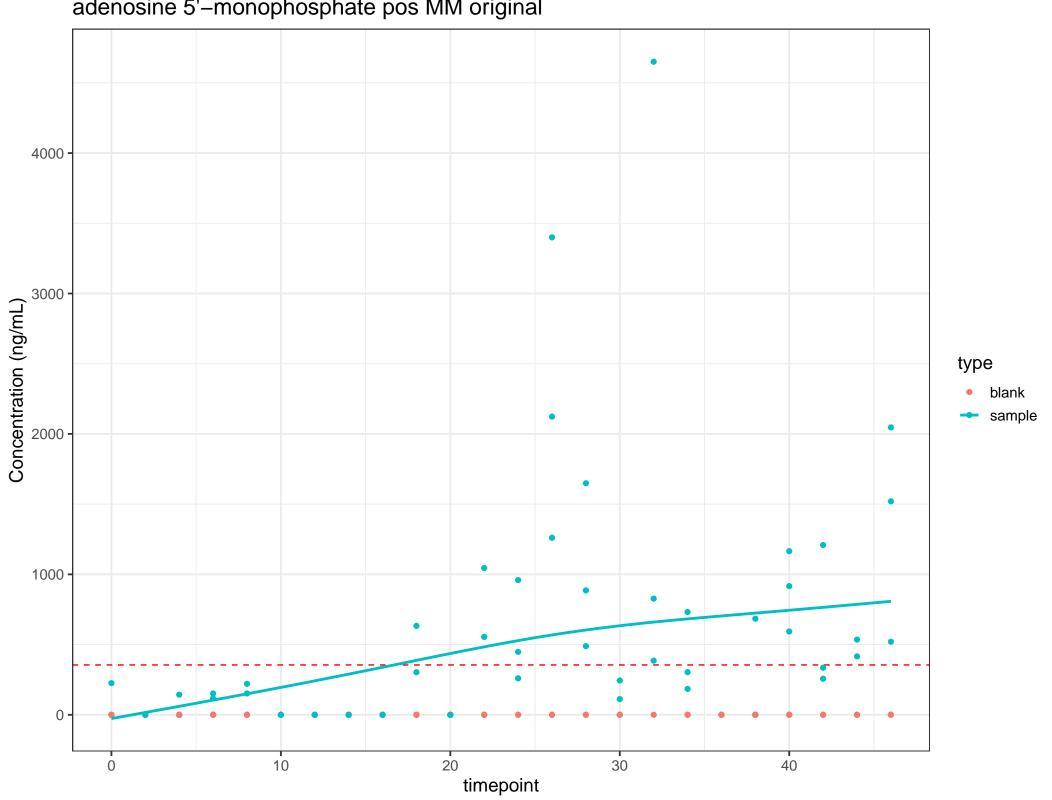


adenine pos MQ original 15 -Concentration (ng/mL) type blank sample 5 -0 -20 10 30 40 0 timepoint

adenosine 5'-monophosphate pos MQ original

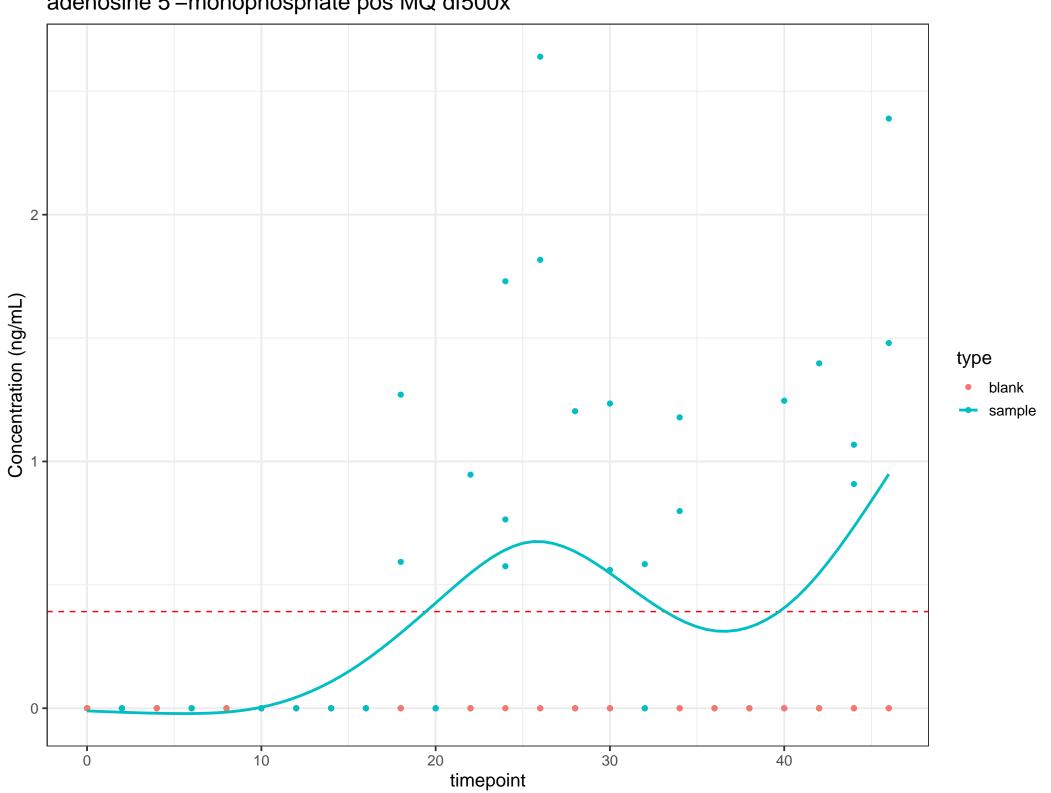


adenosine 5'-monophosphate pos MM original



adenosine 5'-monophosphate pos MQ df10x 150 **-**Concentration (ng/mL) type blank sample 50 0 -20 10 30 40 timepoint

adenosine 5'-monophosphate pos MQ df500x



adenosine pos MQ original 6 Concentration (ng/mL) type blank sample 2 0 20 10 30 40 0

timepoint

adenosine pos MM original 9 Concentration (ng/mL) type blank sample 3

30

40

20

timepoint

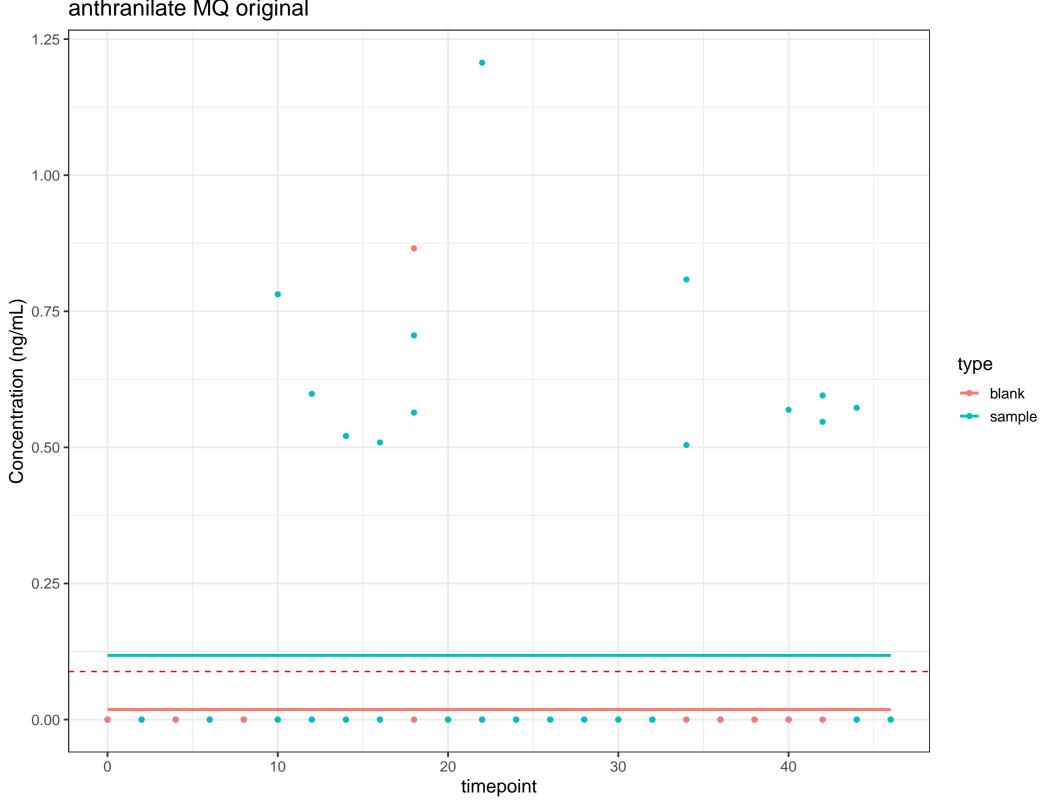
10

0

0

alpha-ketoglutaric acid MQ original 200 -Concentration (ng/mL) type blank sample 0 20 10 30 40 0 timepoint

anthranilate MQ original

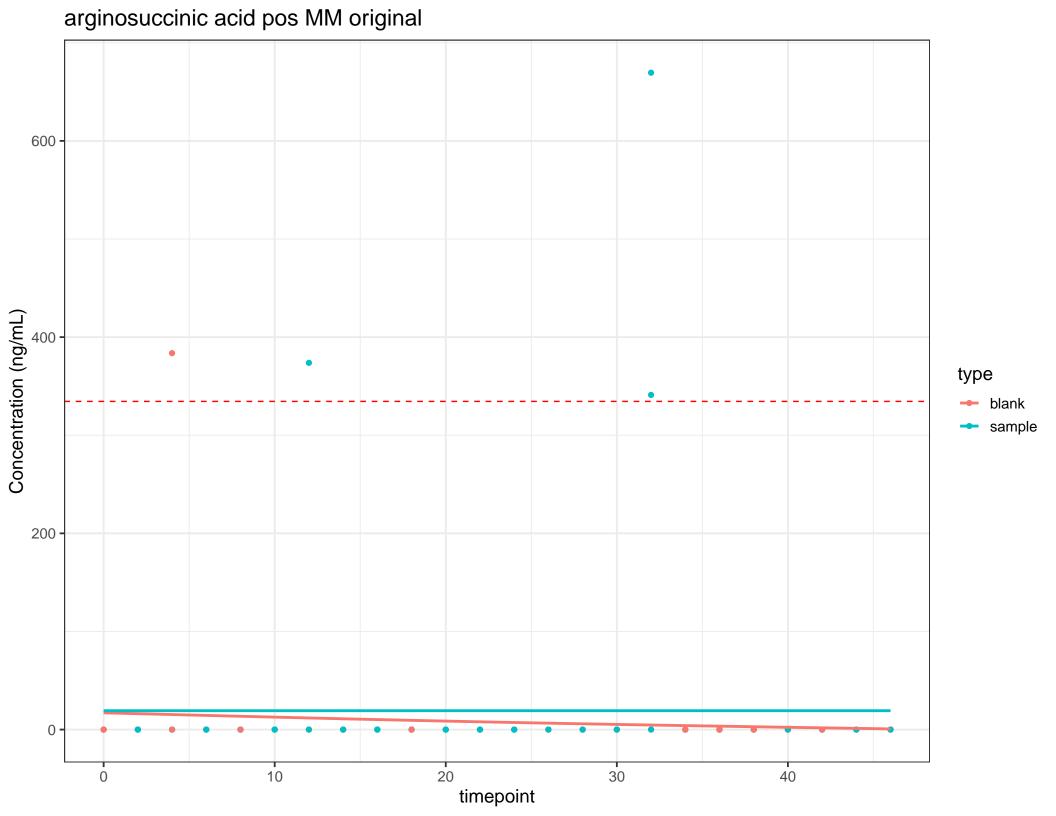


anthranilate MM original 0.9 Concentration (ng/mL) type blank sample 0.3 0.0 -10 20 30 40 0

timepoint

arginine MM original 6000 Concentration (ng/mL) type blank sample 2000 0 20 10 30 40 0 timepoint

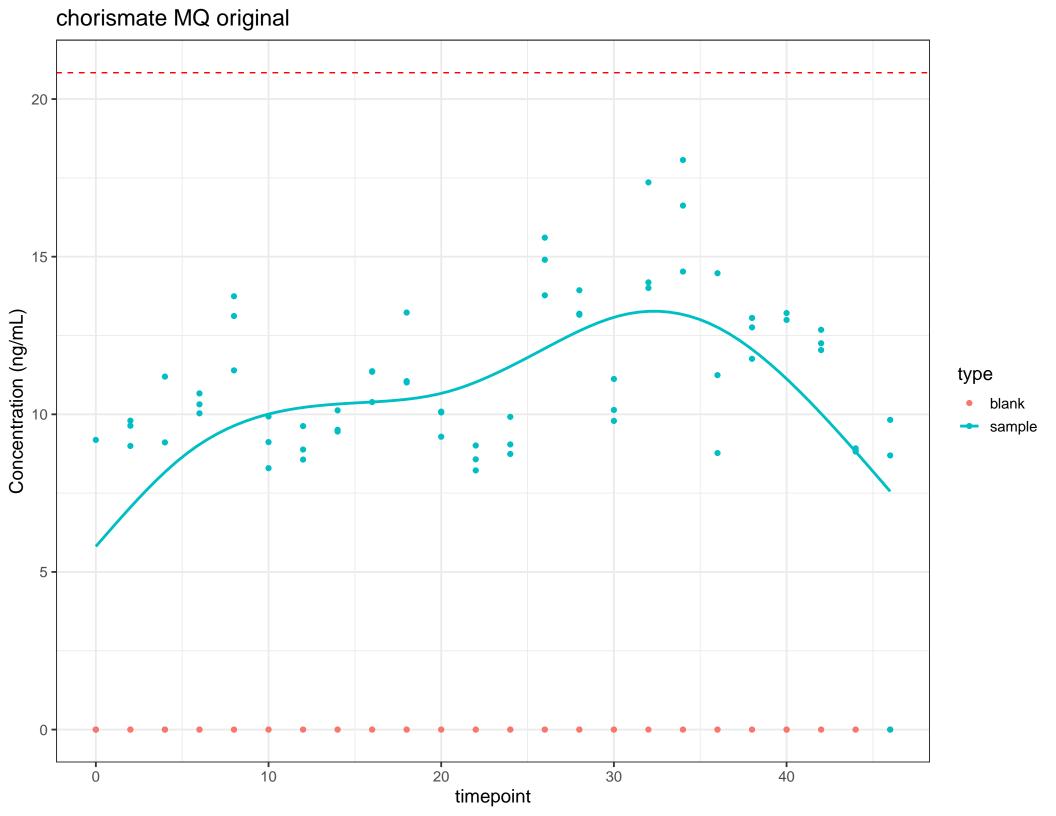
arginosuccinic acid pos MQ original 1.5 Concentration (ng/mL) type blank sample 0.5 0.0 10 20 30 40 0 timepoint

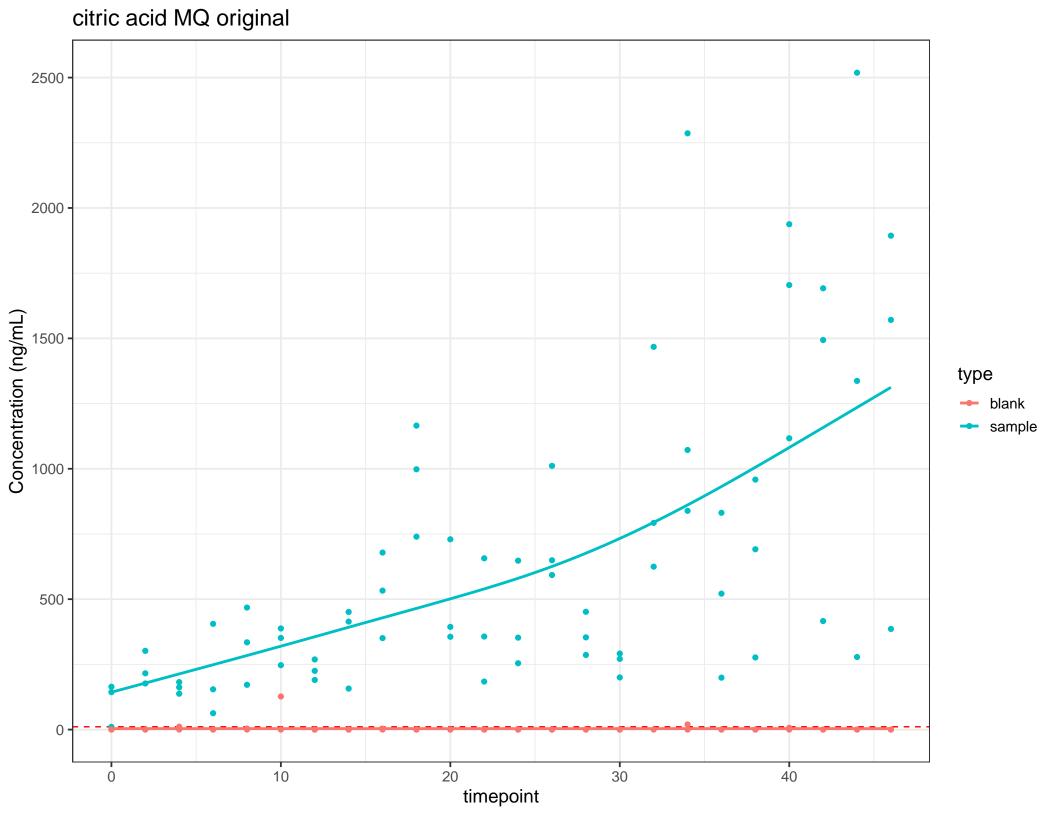


aspartic acid neg MQ original 100 75 **-**Concentration (ng/mL) type blank 50 sample 25 -0 -20 10 30 40 timepoint

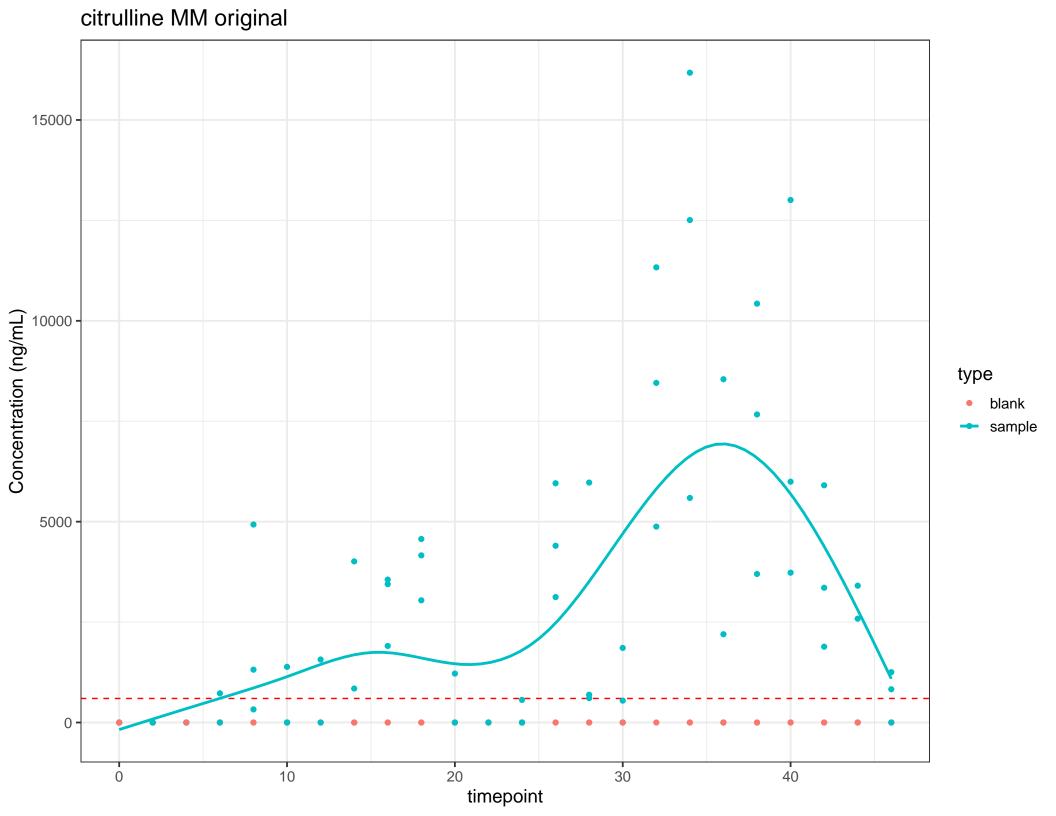
caffeine MQ original 8 6 Concentration (ng/mL) type blank sample 2 · 0 10 20 30 40 0 timepoint

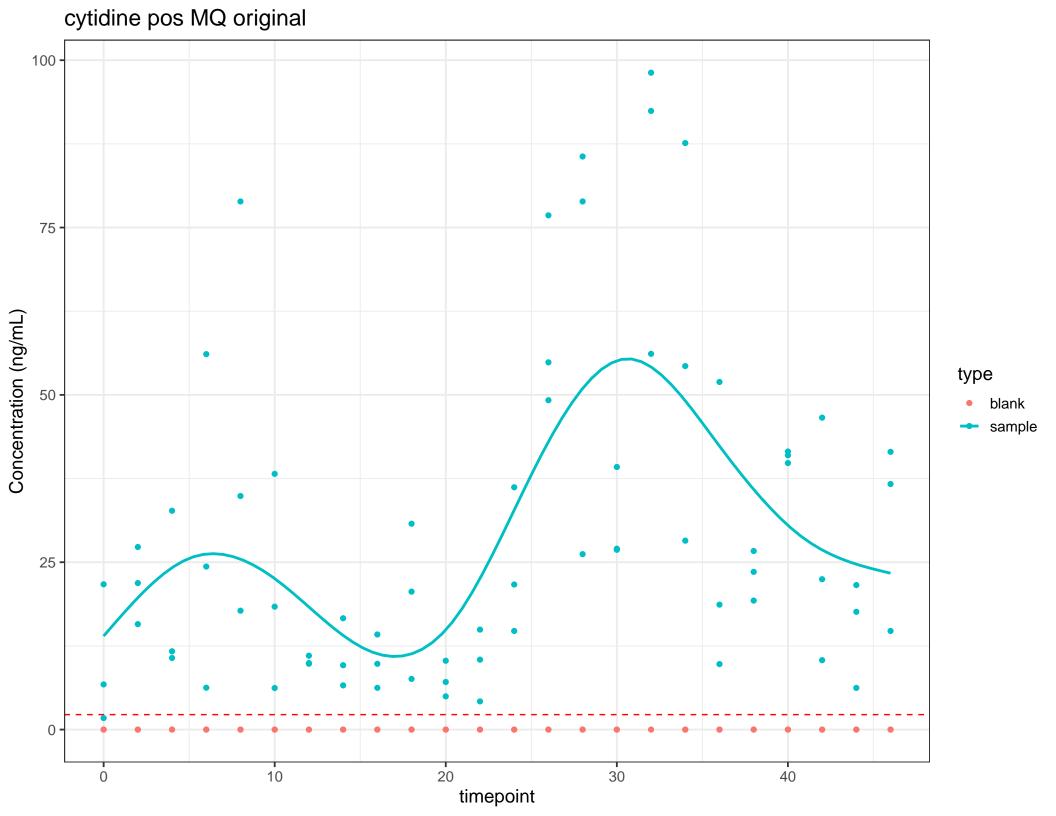
choline MM original • 8 6 Concentration (ng/mL) type blank sample 2 0 10 20 30 40 0 timepoint

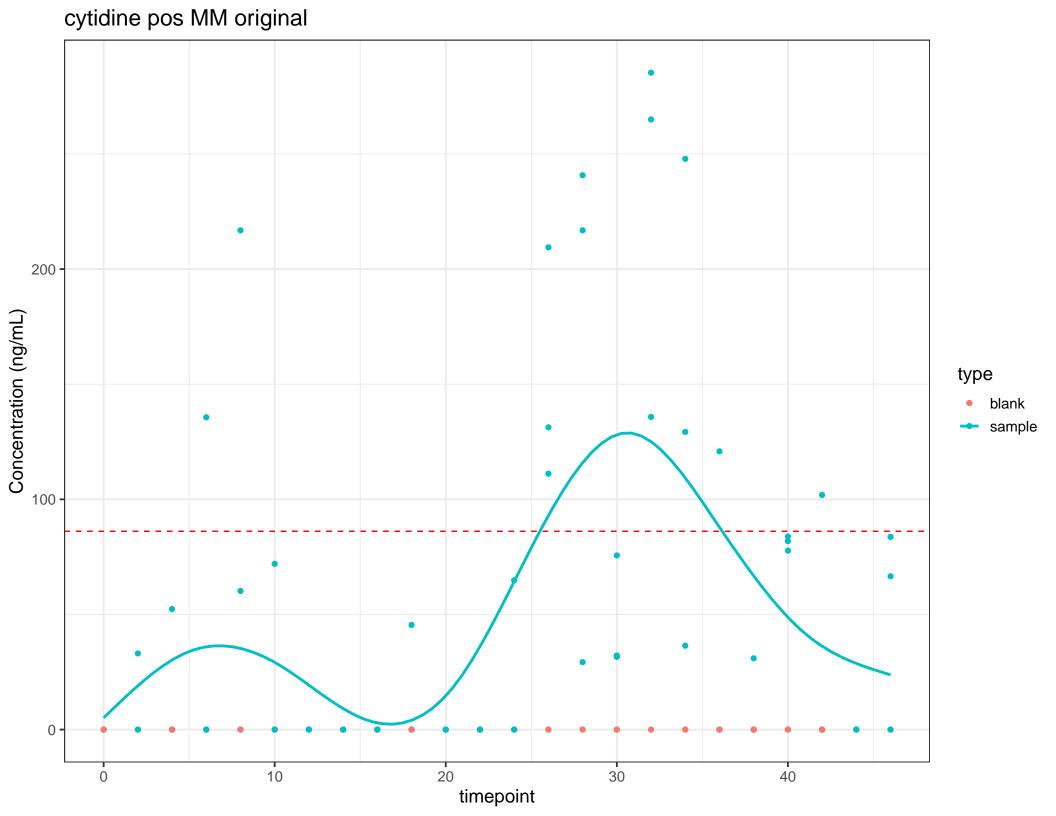


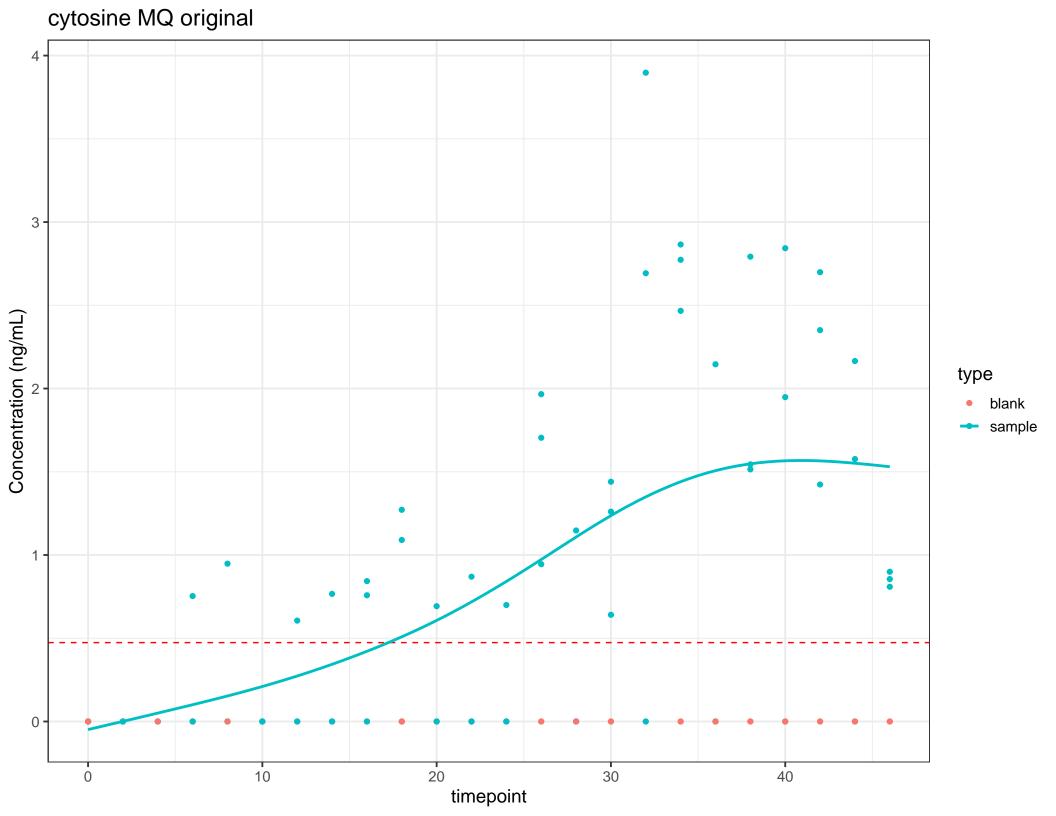


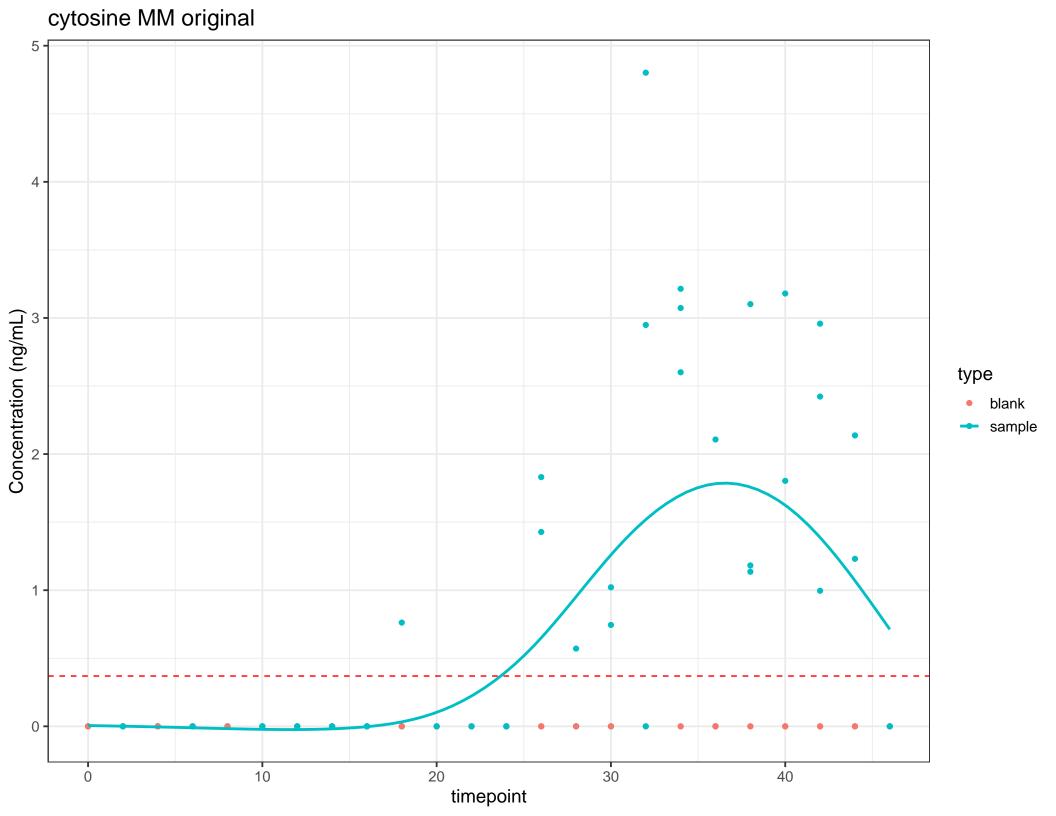
citrulline MQ original 75 **-**Concentration (ng/mL) type blank sample 25 -10 20 30 40 0 timepoint



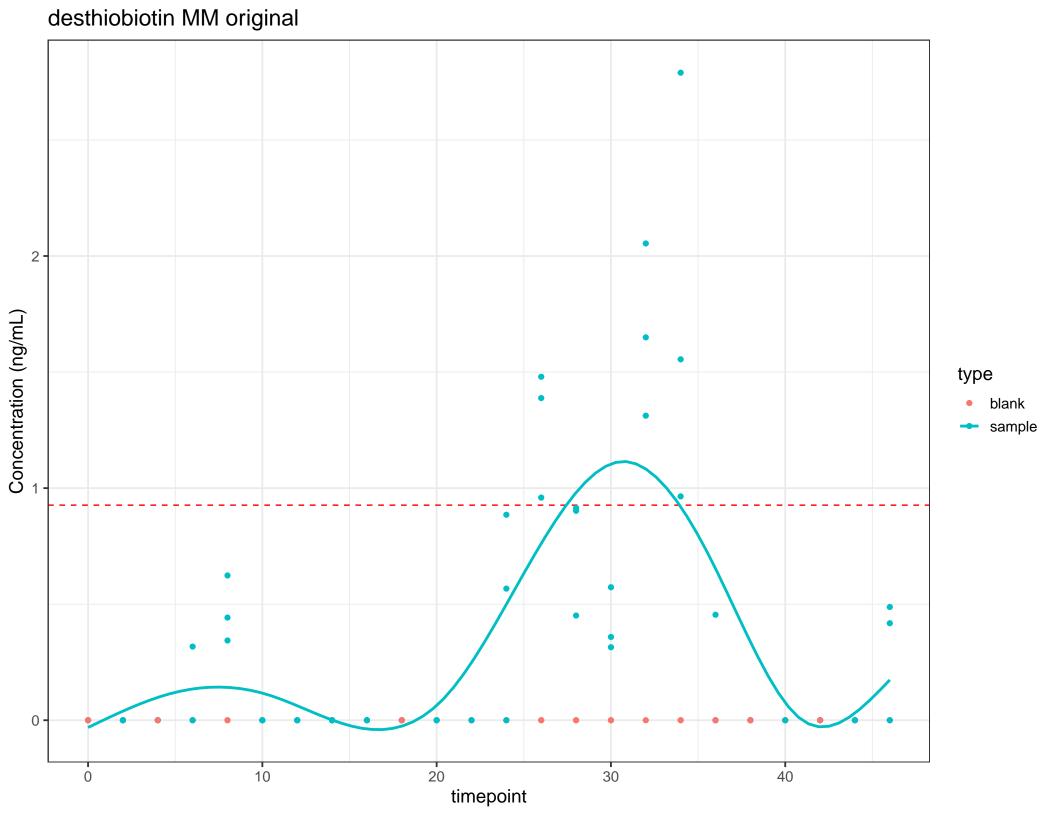


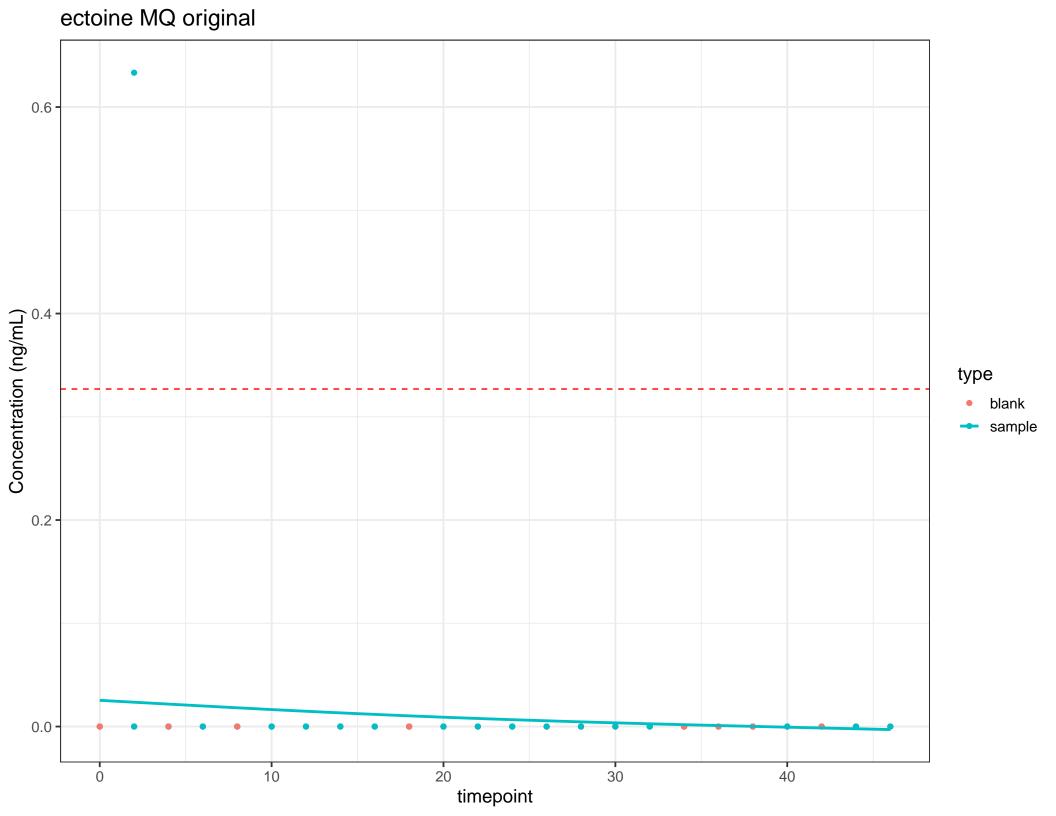






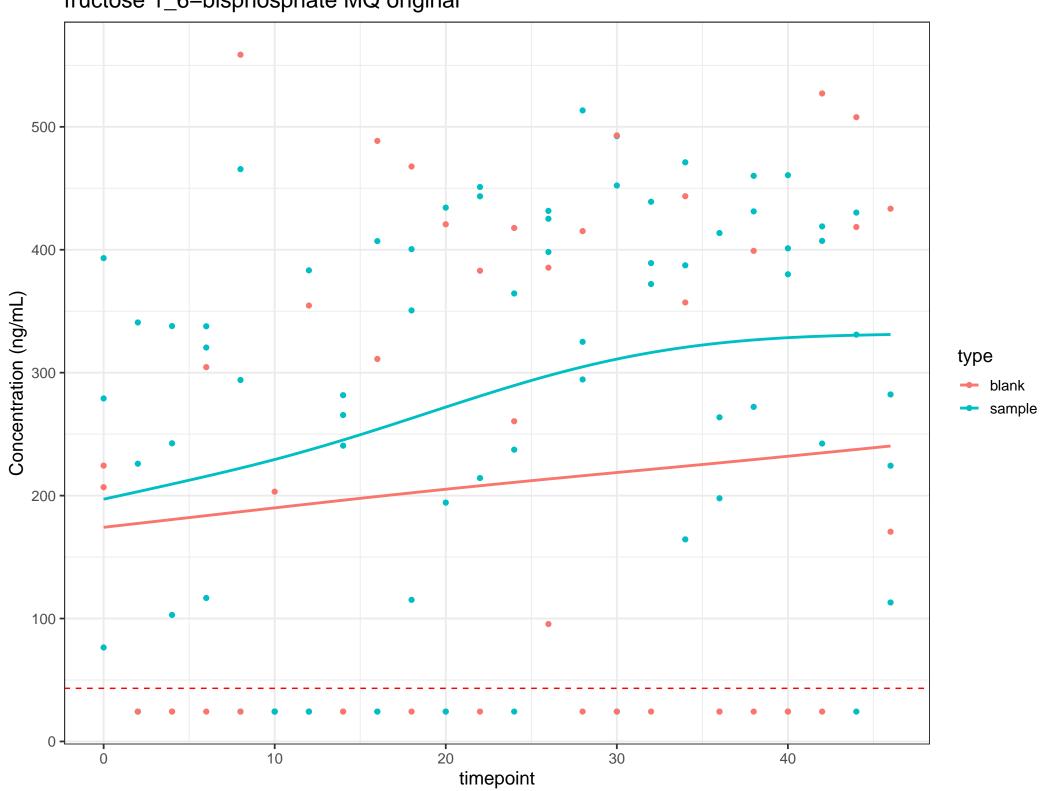
desthiobiotin MQ original 3 Concentration (ng/mL) type blank sample 0 20 40 10 30 0 timepoint





ectoine MM original 1.5 Concentration (ng/mL) type blank sample 0.5 0.0 10 20 40 30 0 timepoint

fructose 1_6-bisphosphate MQ original



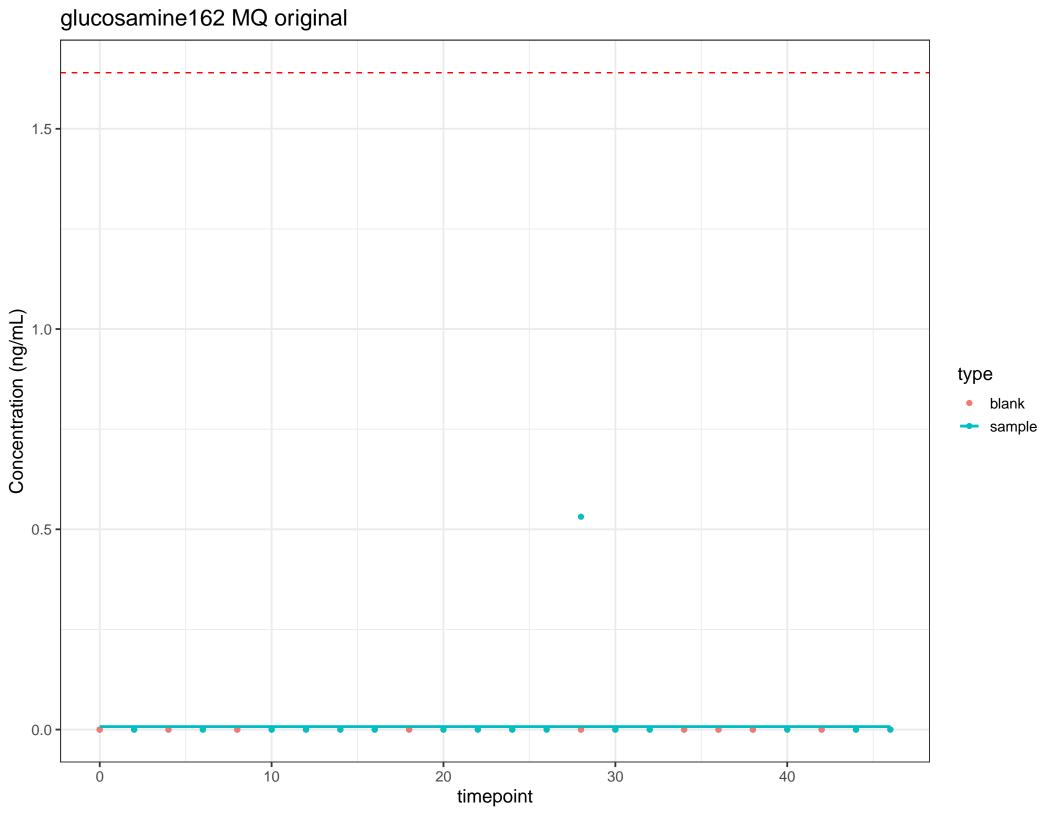
fumaric acid MQ original 1.5 -Concentration (ng/mL) type blank sample 0.5 0.0 10 20 30 40 0 timepoint

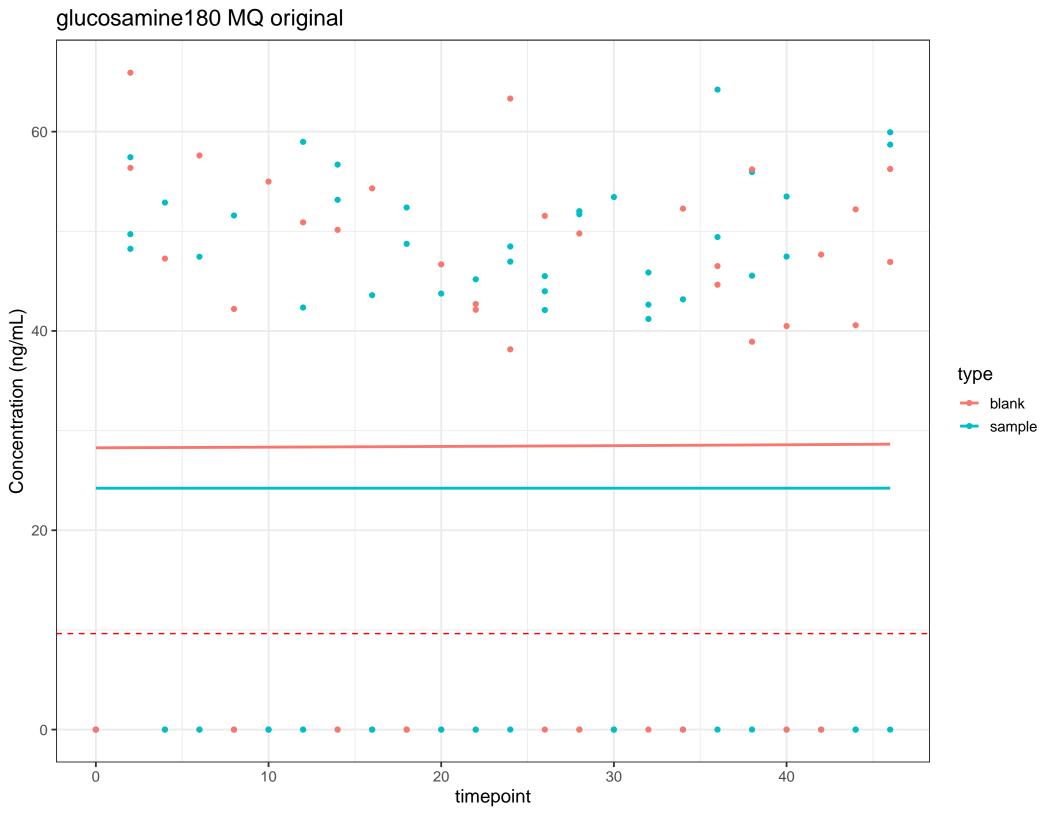
fumaric acid MM original 40 -30 -Concentration (ng/mL) type blank sample 10 -0 -20 40 10 30 0 timepoint

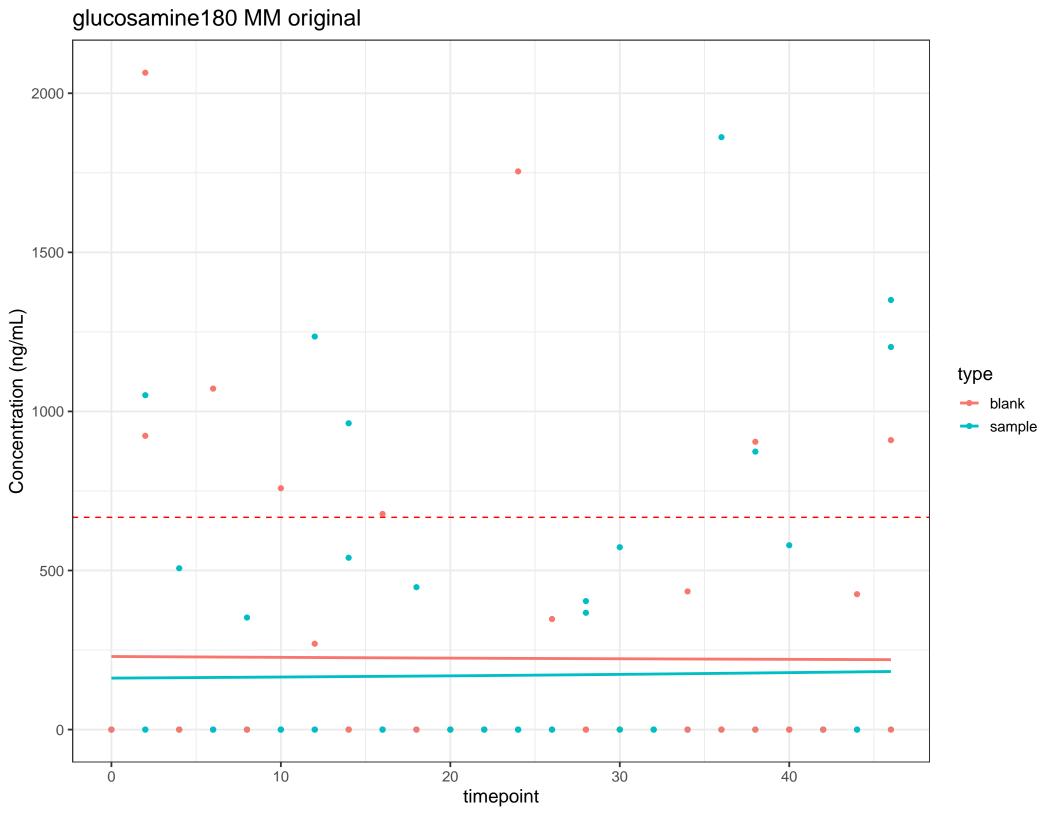
glucosamine-6-phosphate MQ original 2.0 • 1.5 Concentration (ng/mL) type blank sample 0.5 0.0 10 20 30 40

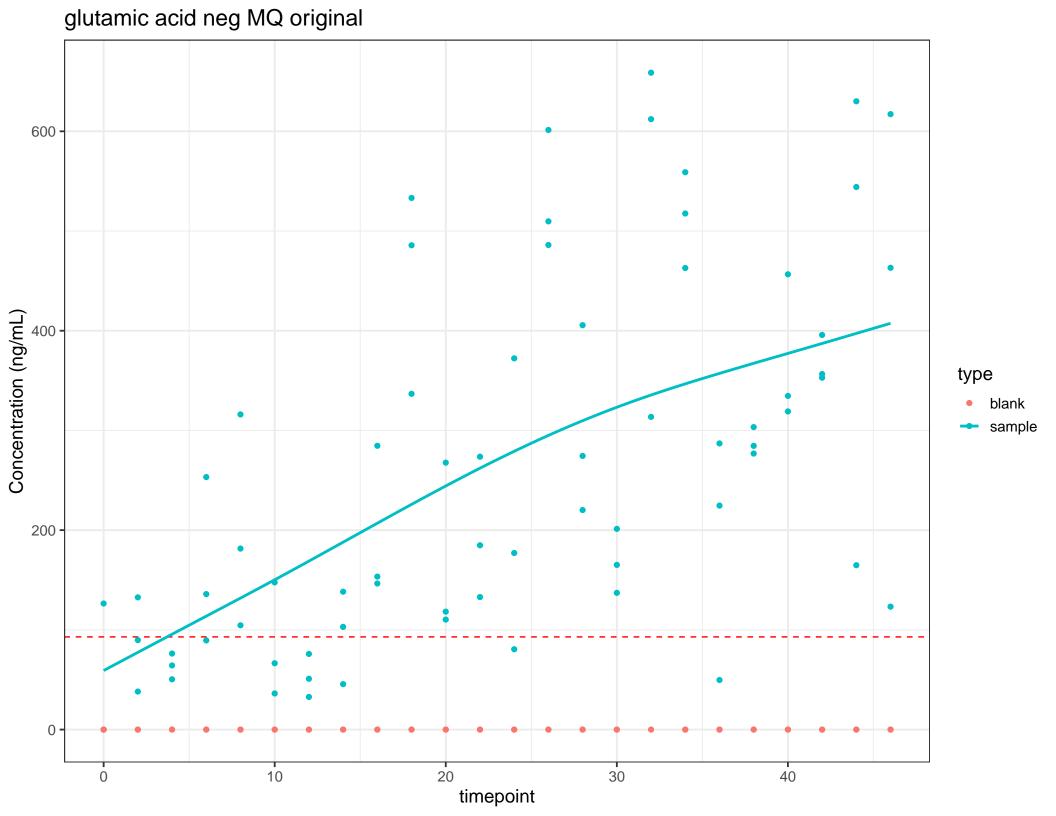
timepoint

glucosamine-6-phosphate MM original 600 Concentration (ng/mL) type blank sample 200 -0 -10 20 30 40 timepoint

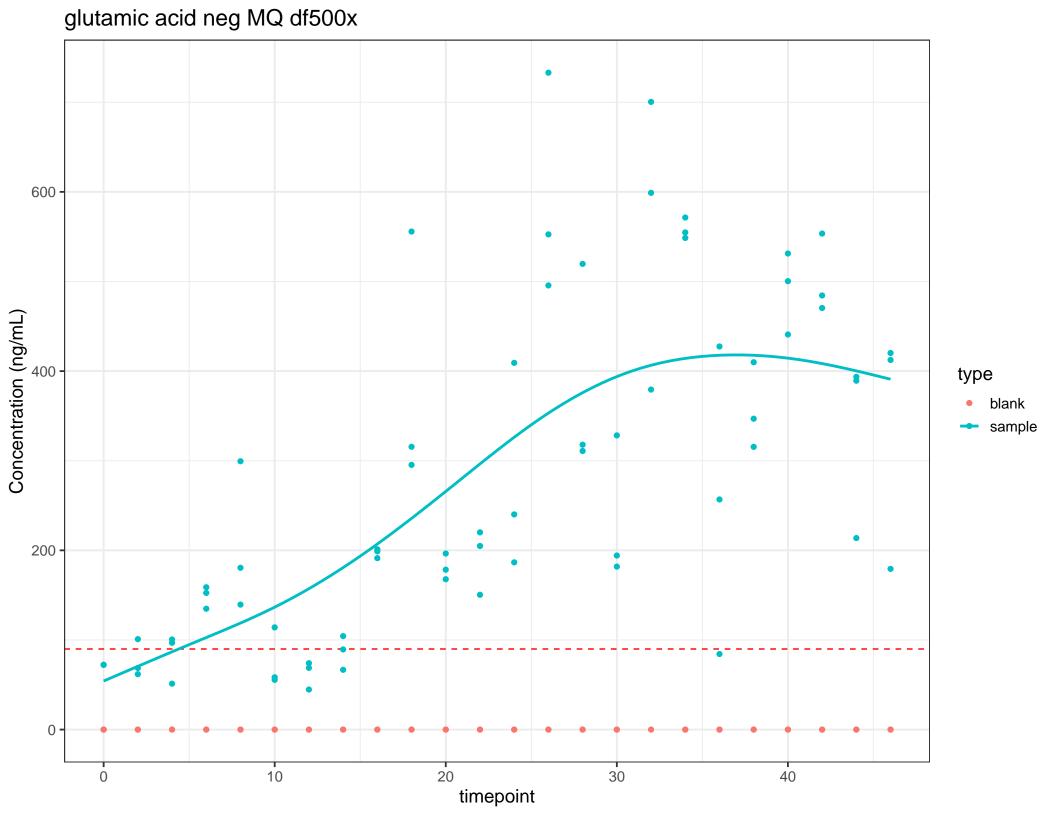


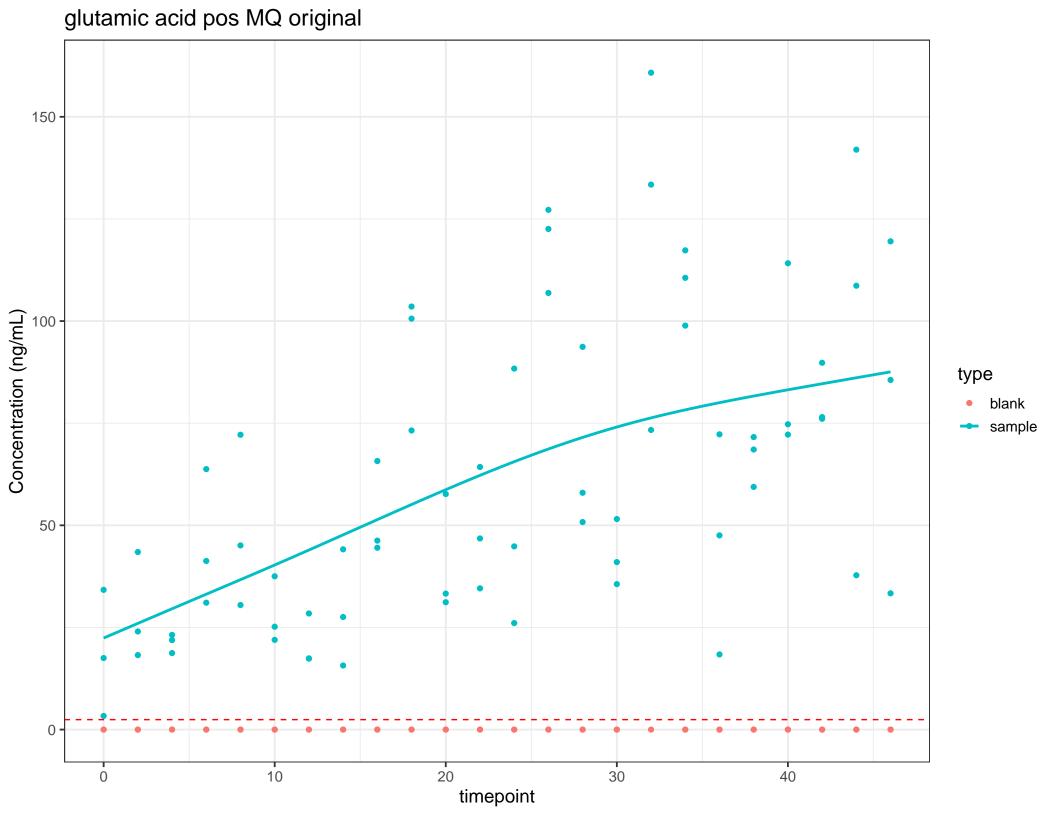




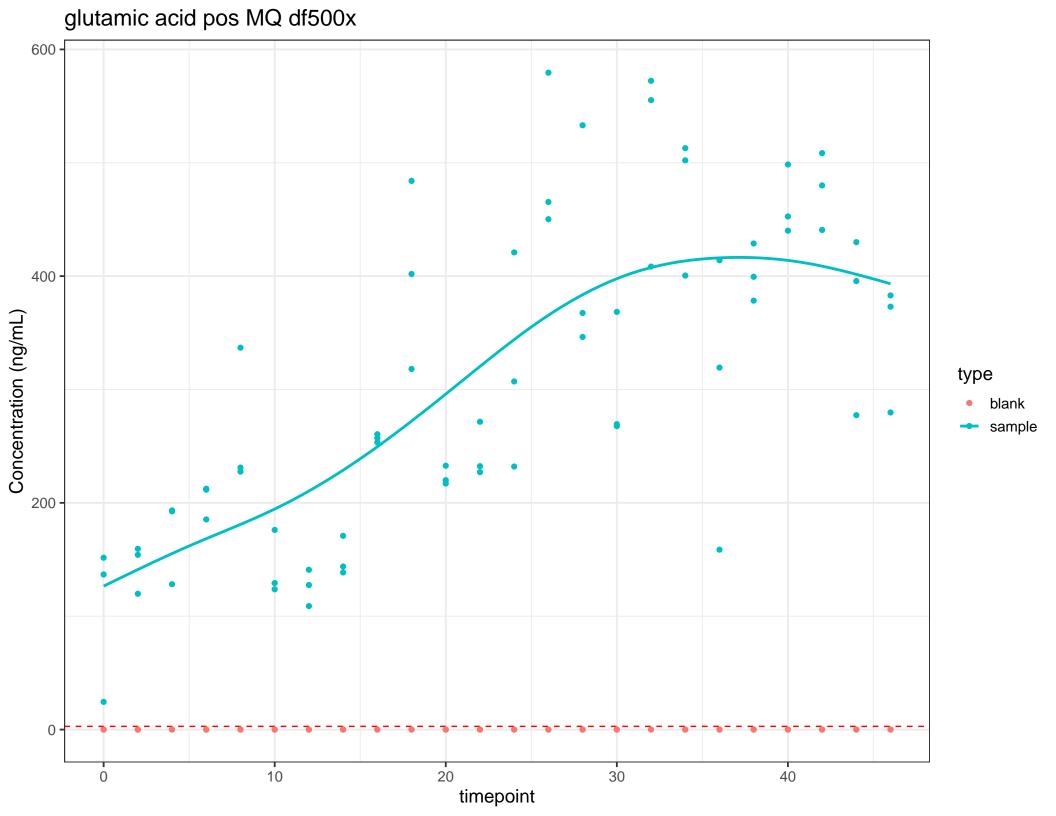


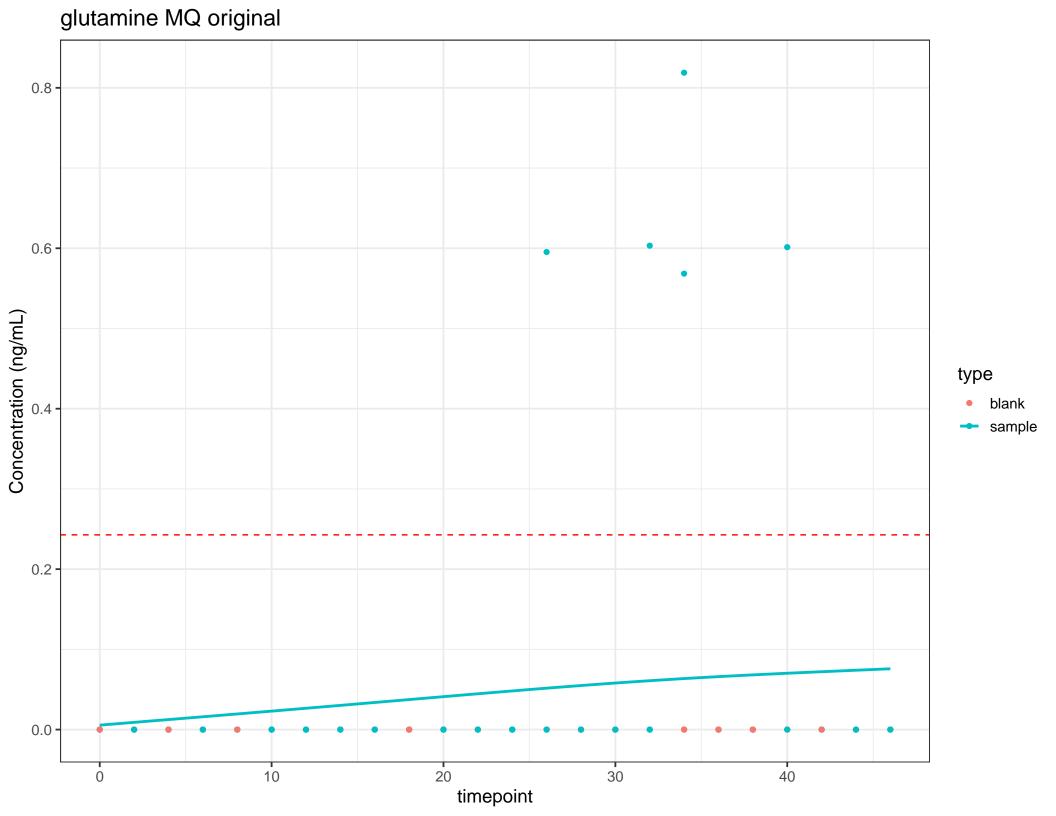
glutamic acid neg MQ df10x 3000 Concentration (ng/mL) type blank sample 1000 0 10 20 30 40 0 timepoint

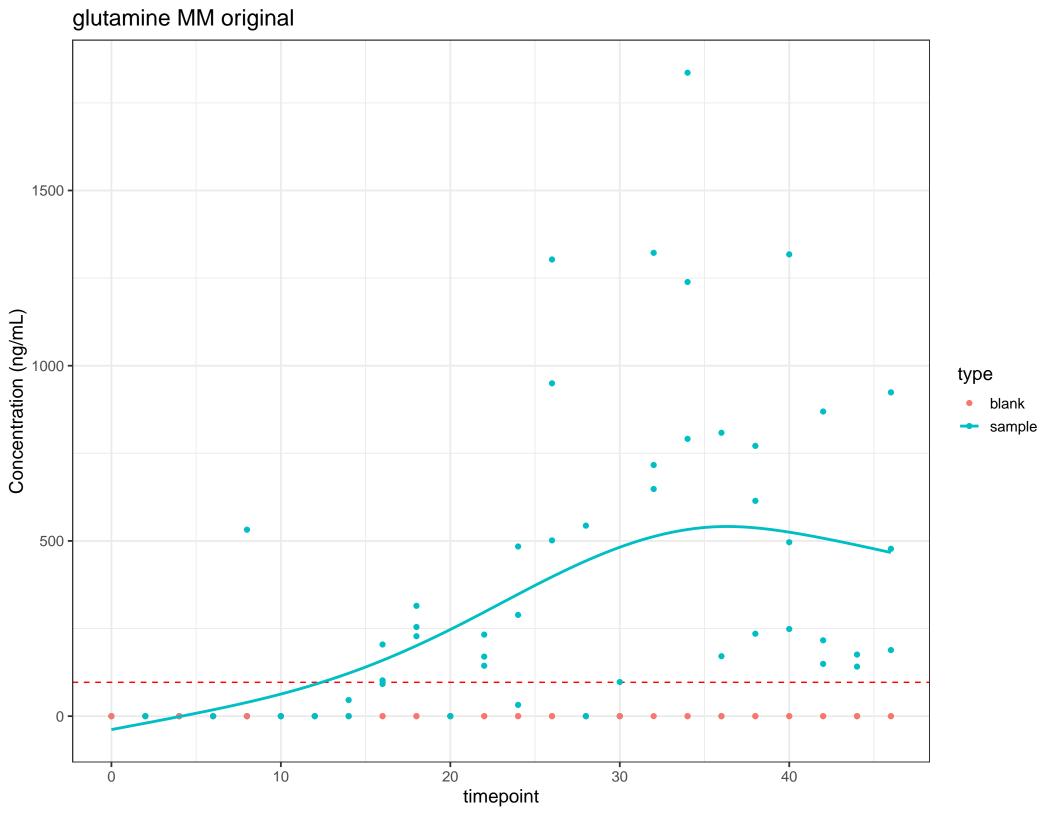




glutamic acid pos MQ df10x 1000 Concentration (ng/mL) type blank sample 500 20 10 30 40 0 timepoint



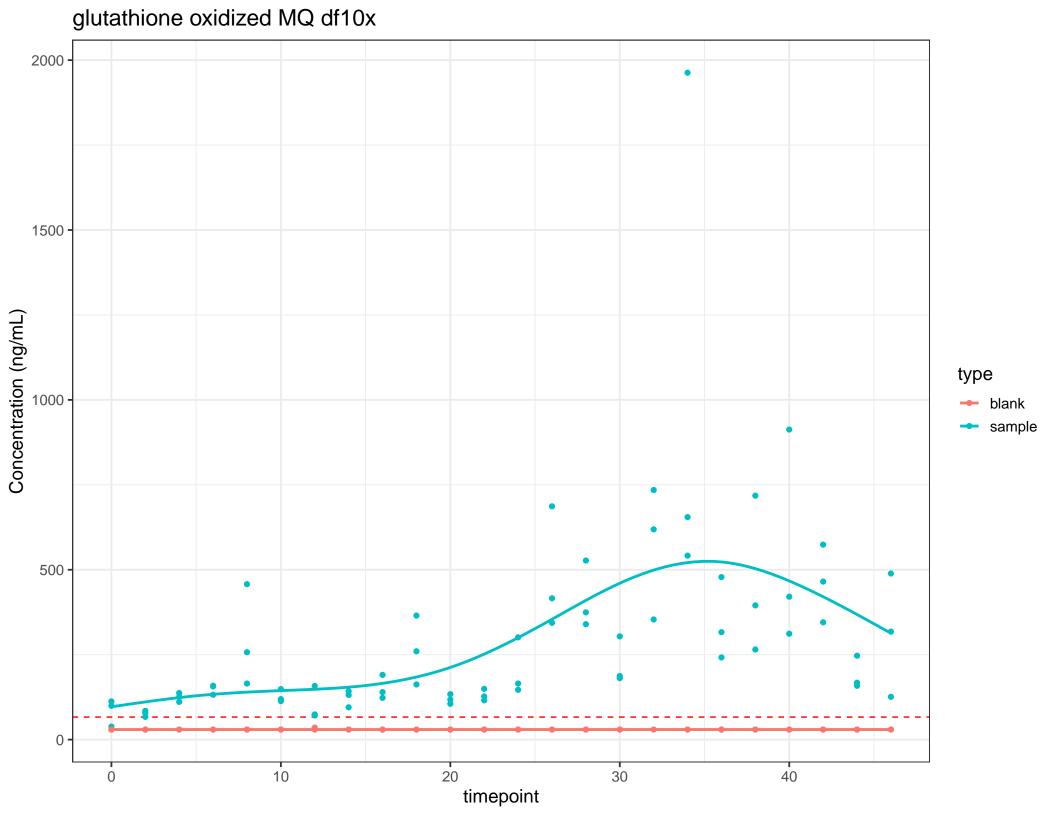


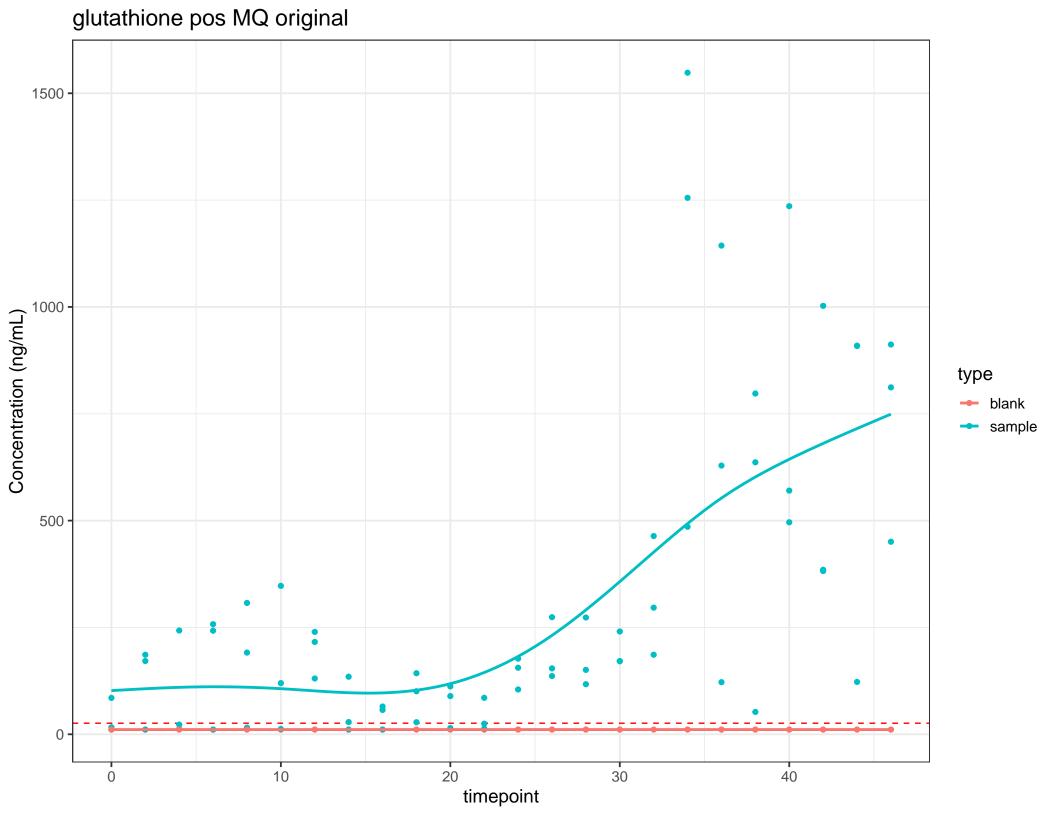


glutamine MQ df10x 30 -20 -Concentration (ng/mL) type blank sample 10 -20 10 40 30 0 timepoint

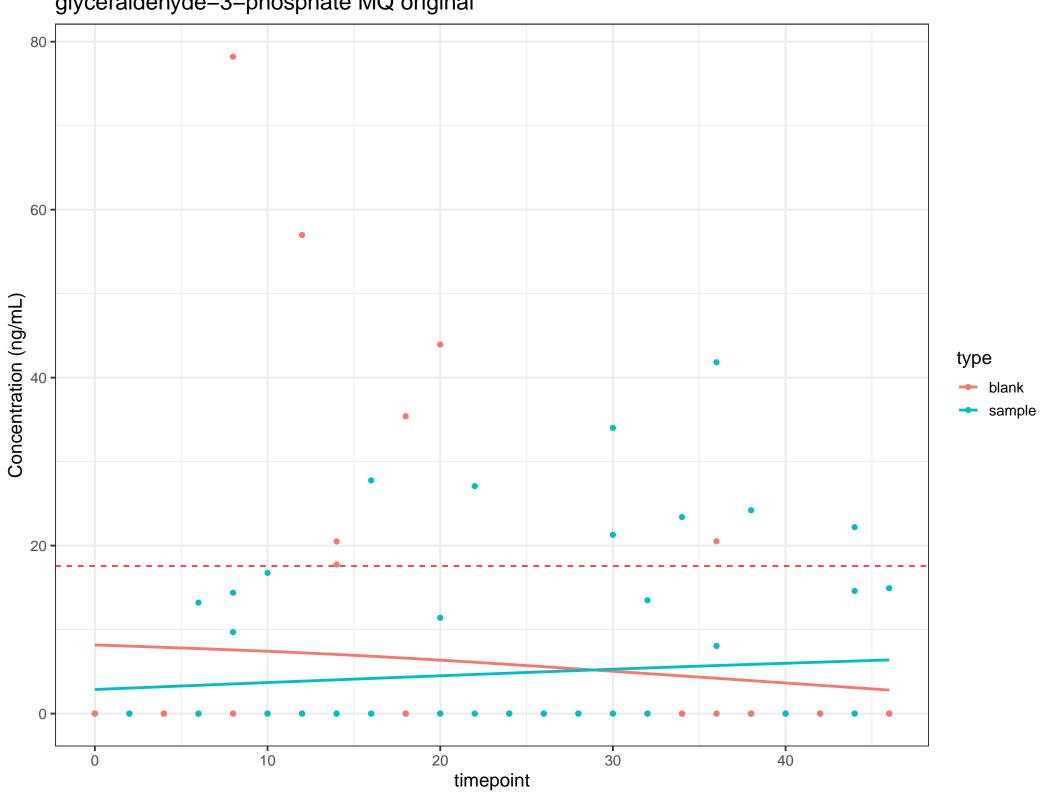
glutamine MQ df500x 40 -30 -Concentration (ng/mL) type blank sample 10 -10 20 30 40 0 timepoint

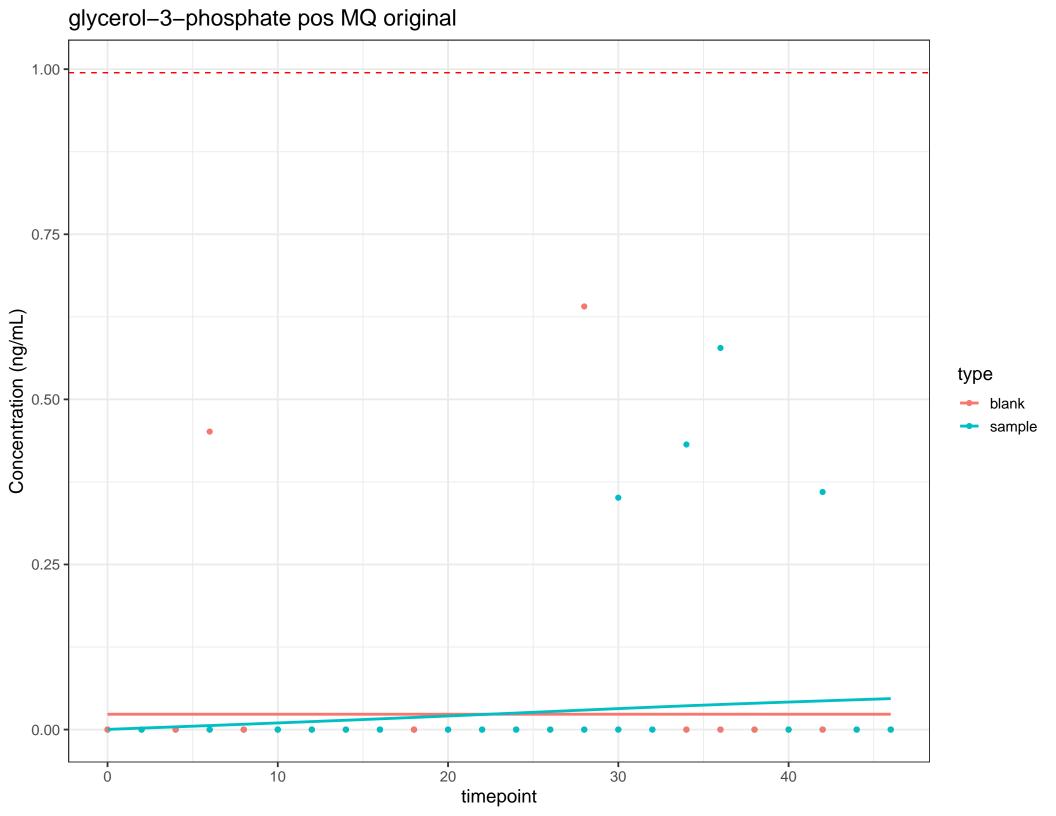
glutathione oxidized MQ original 20000 15000 Concentration (ng/mL) type blank sample 10000 5000 10 20 30 40 0 timepoint

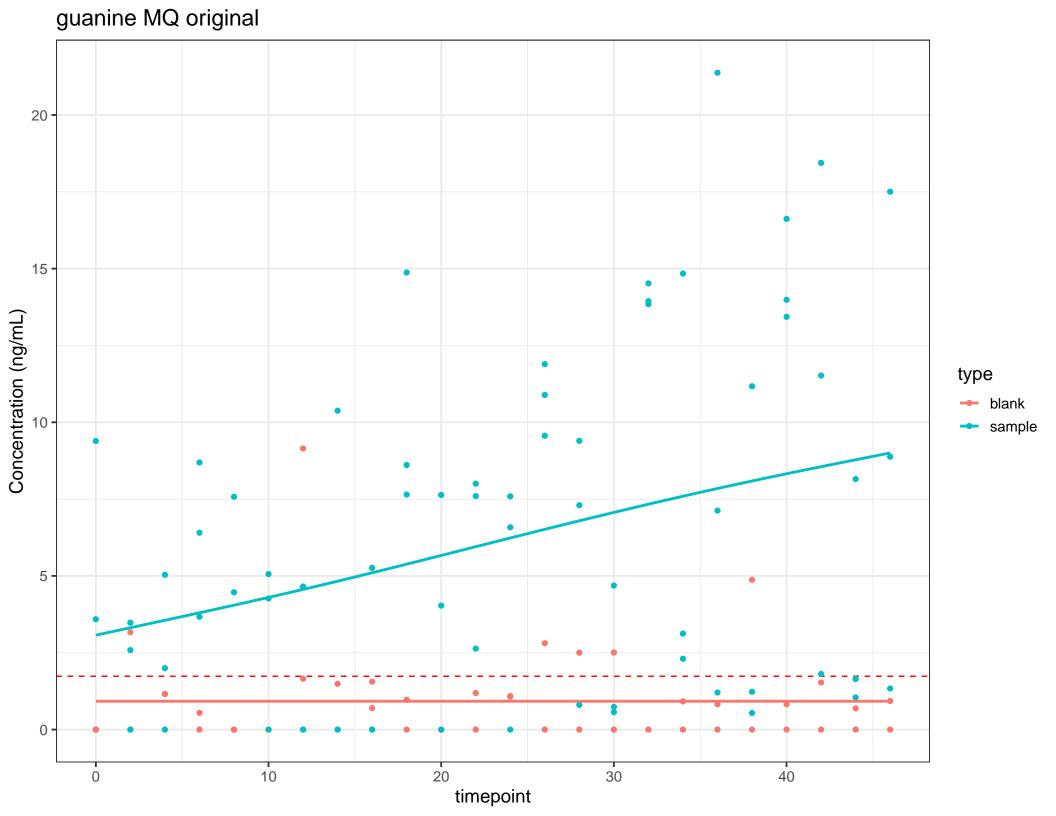




glyceraldehyde-3-phosphate MQ original

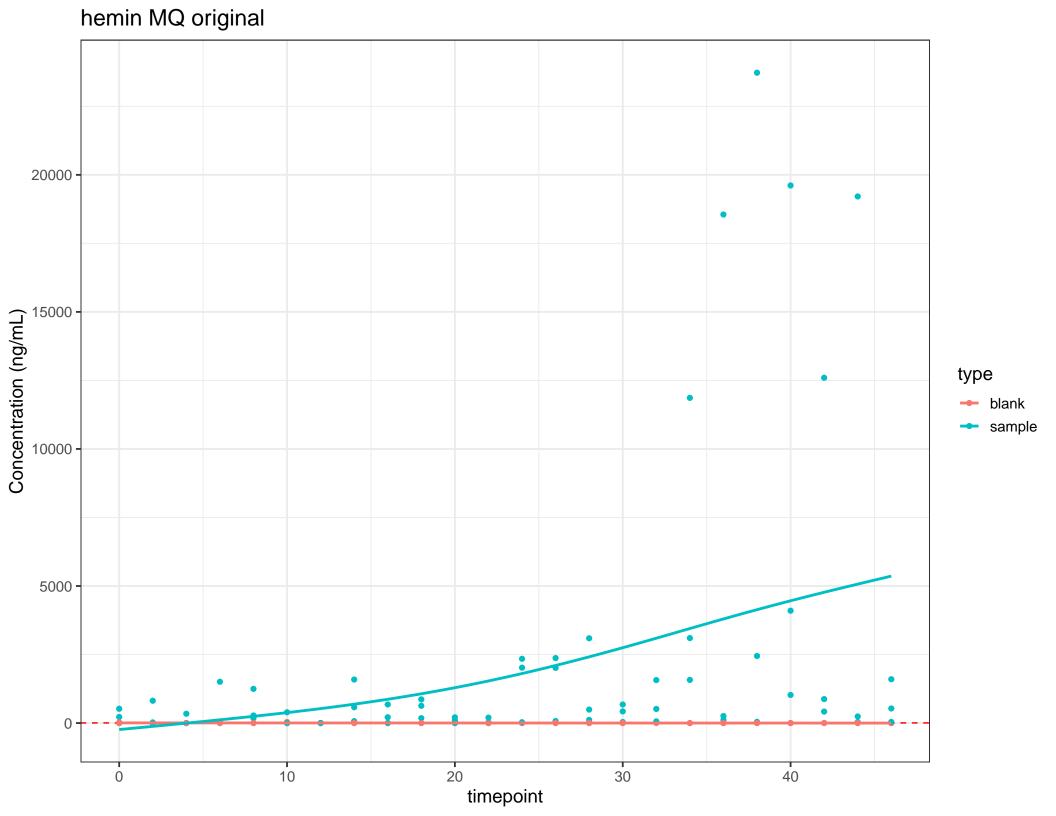


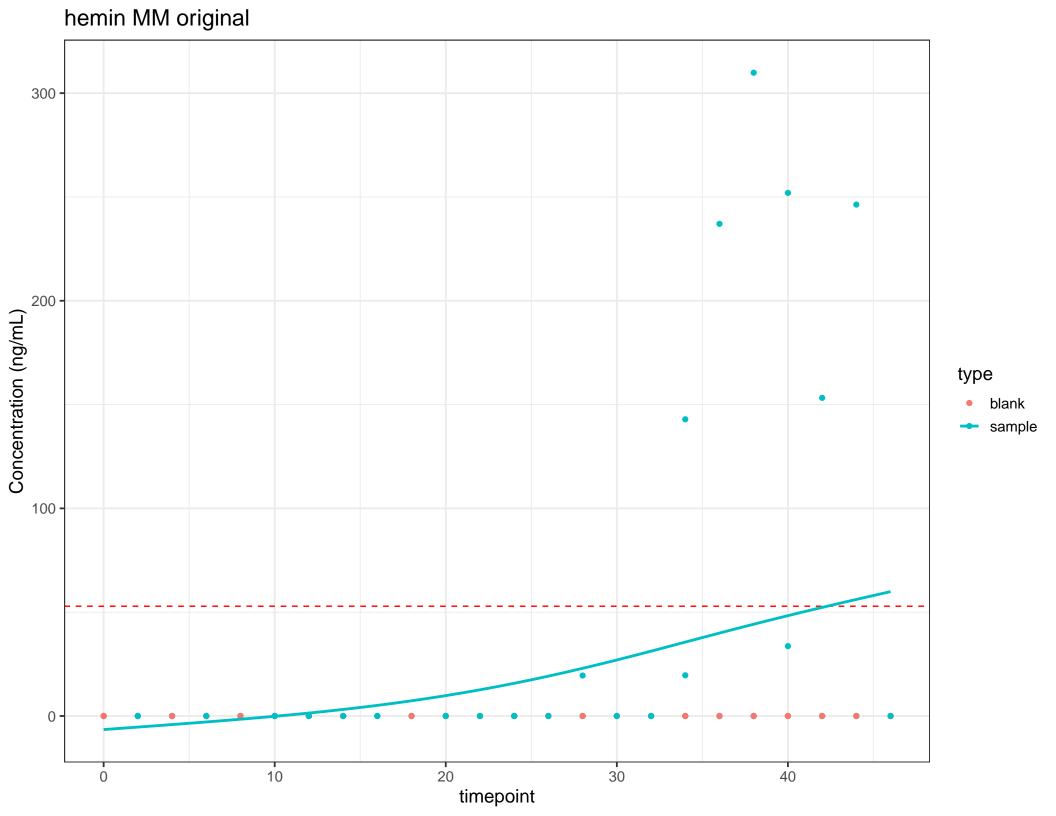


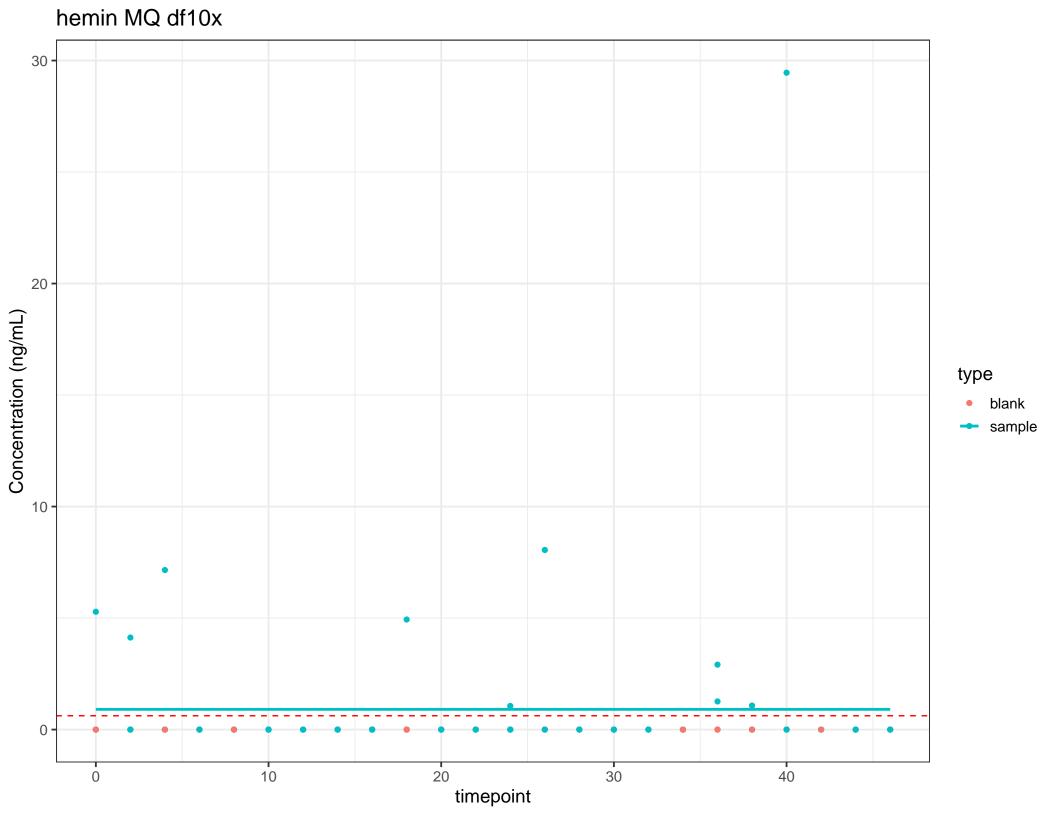


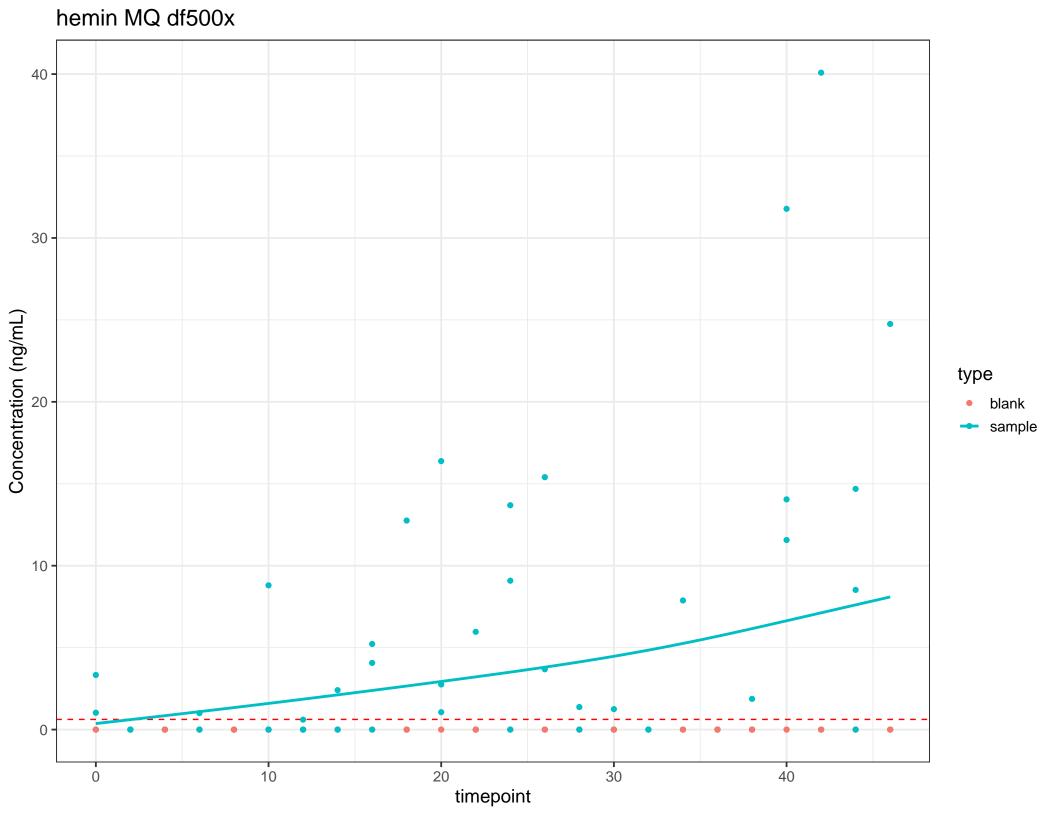
guanosine pos MQ original Concentration (ng/mL) type blank sample 0 30 20 40 10 timepoint

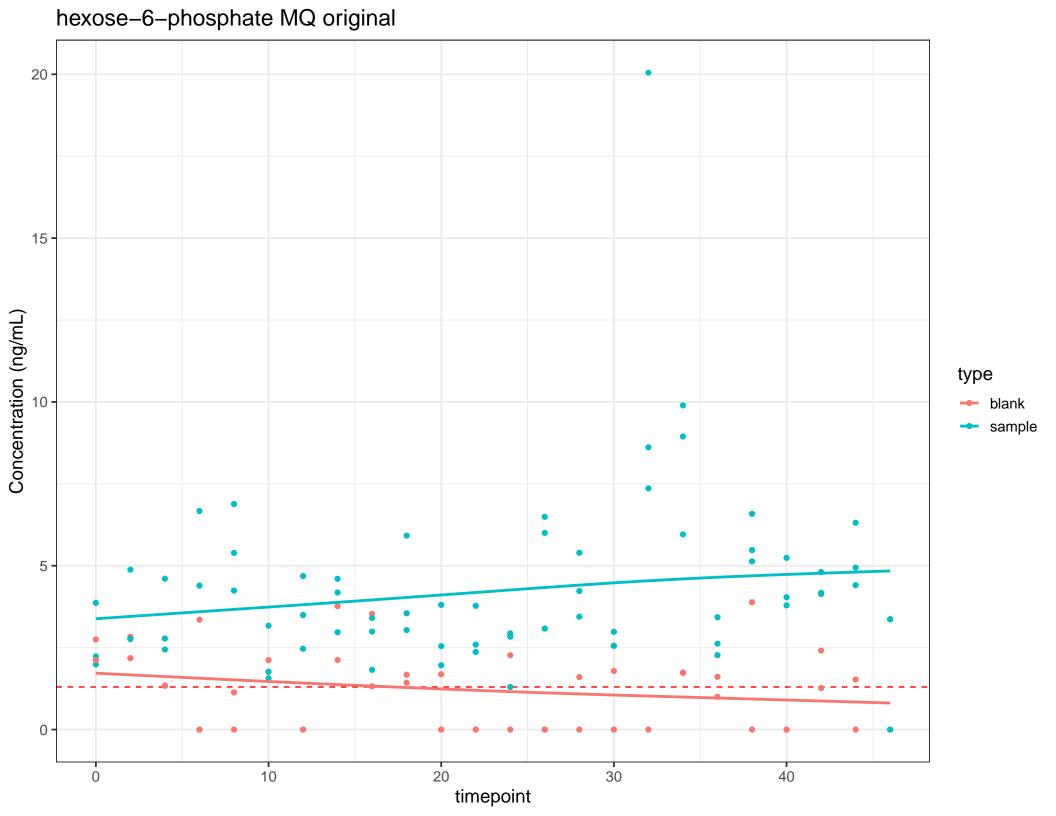
guanosine pos MM original 10 -Concentration (ng/mL) type blank sample 0 -10 20 30 40 0 timepoint

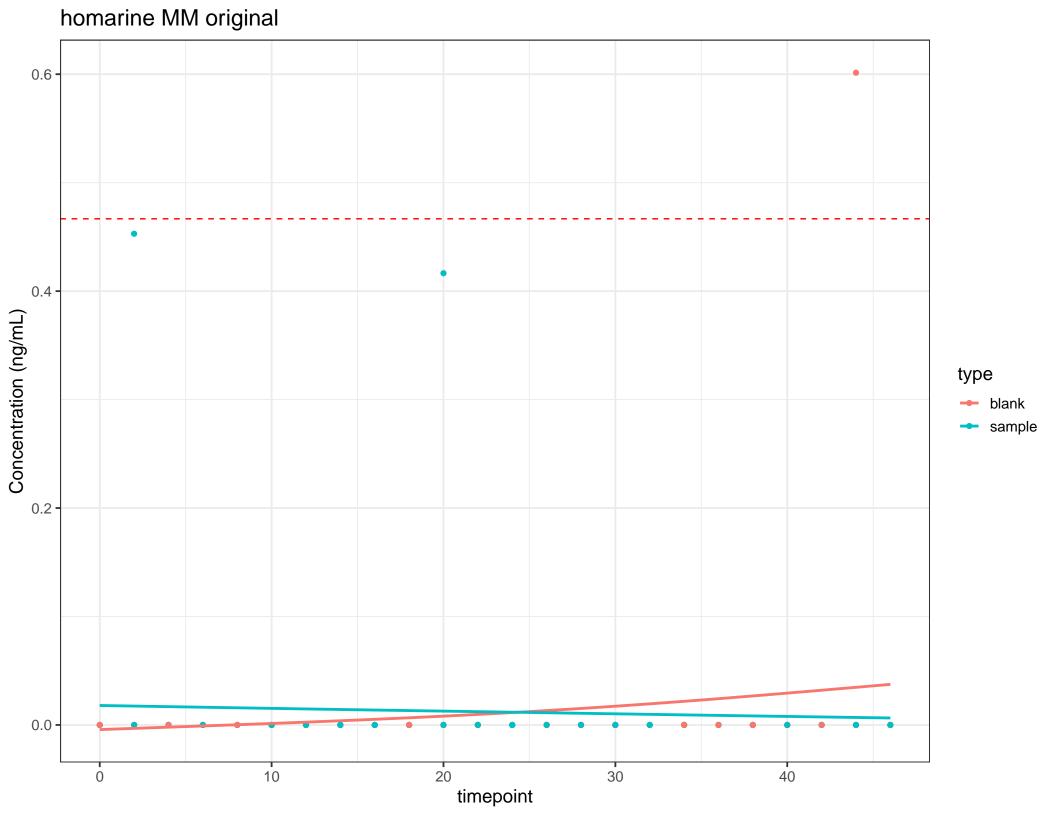










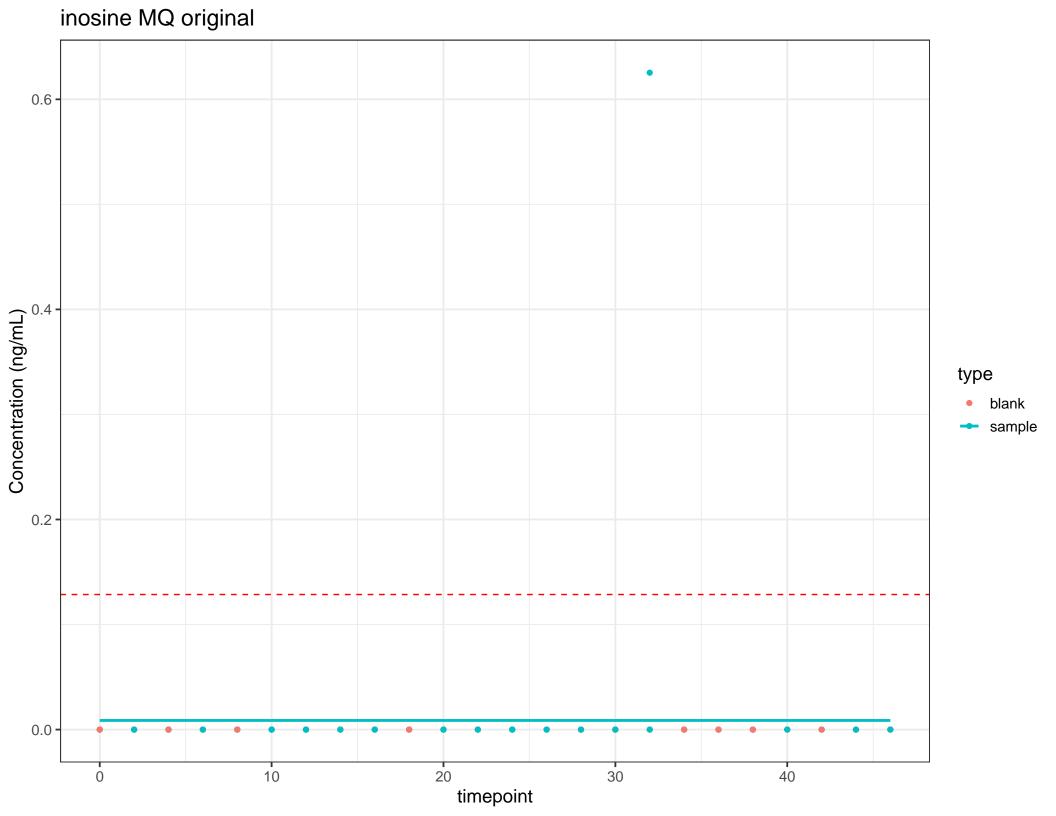


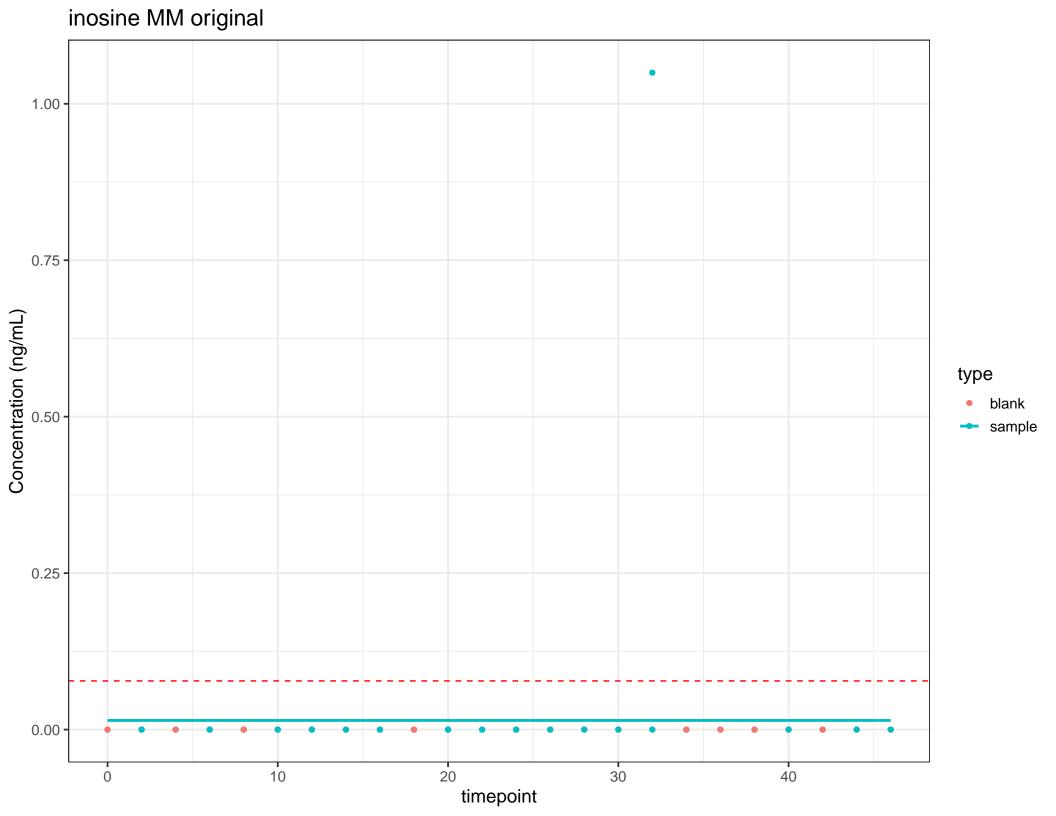
homocysteine MQ original 8 6 Concentration (ng/mL) type blank sample 2 -0 -20 30 10 40 0 timepoint

hypoxanthine MQ original 2 -Concentration (ng/mL) type blank sample 0 20 10 30 40 0

timepoint

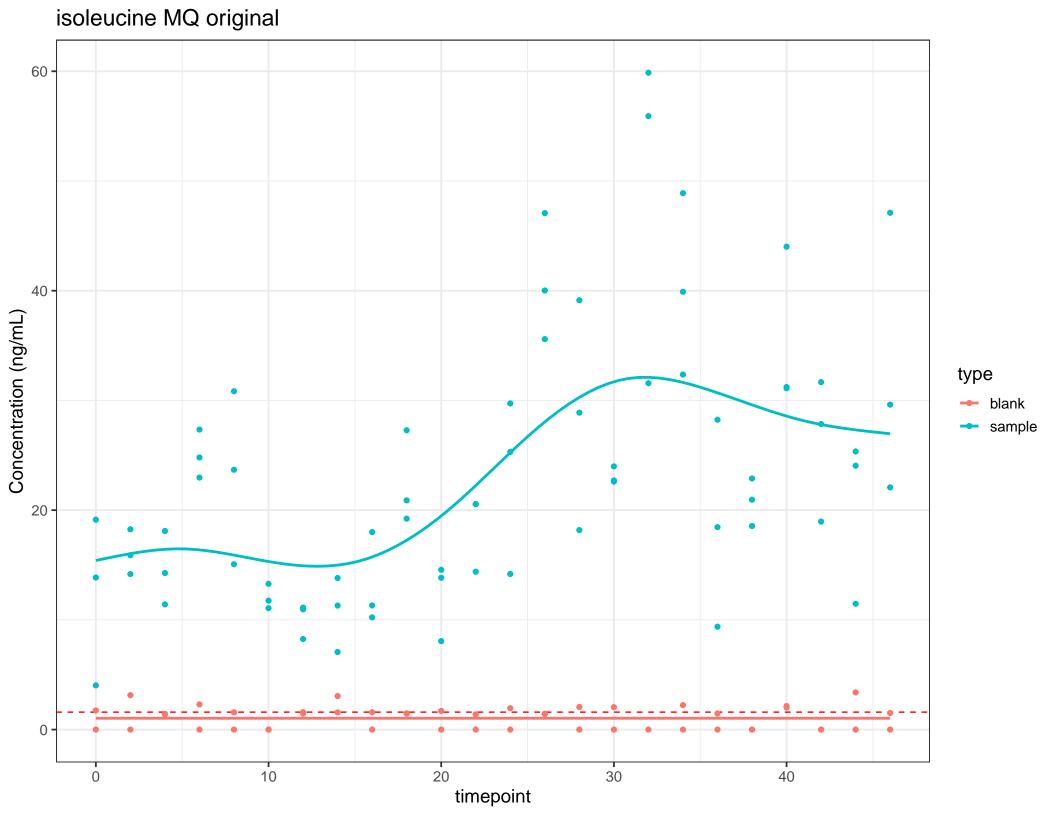
hypoxanthine MM original 2.0 -1.5 Concentration (ng/mL) type blank sample 0.5 0.0 10 40 20 30 0 timepoint



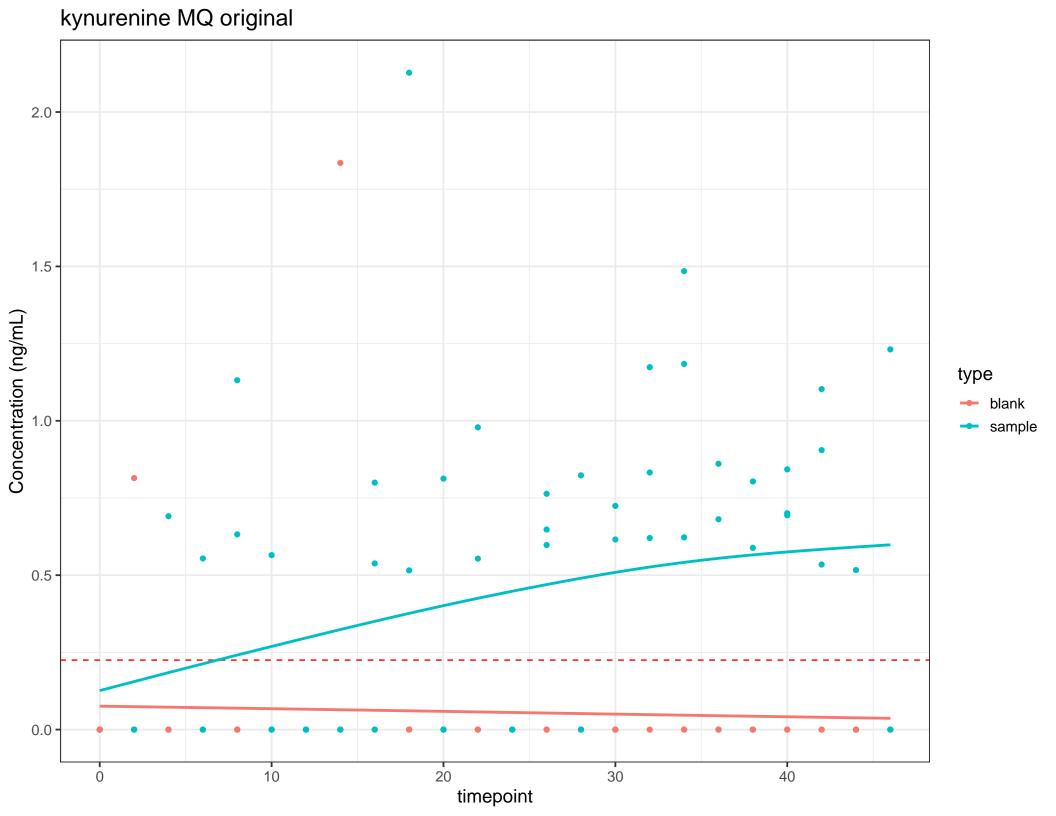


inosine 5-monophosphate pos MQ original 400 Concentration (ng/mL) type blank sample 0 -20 10 30 40

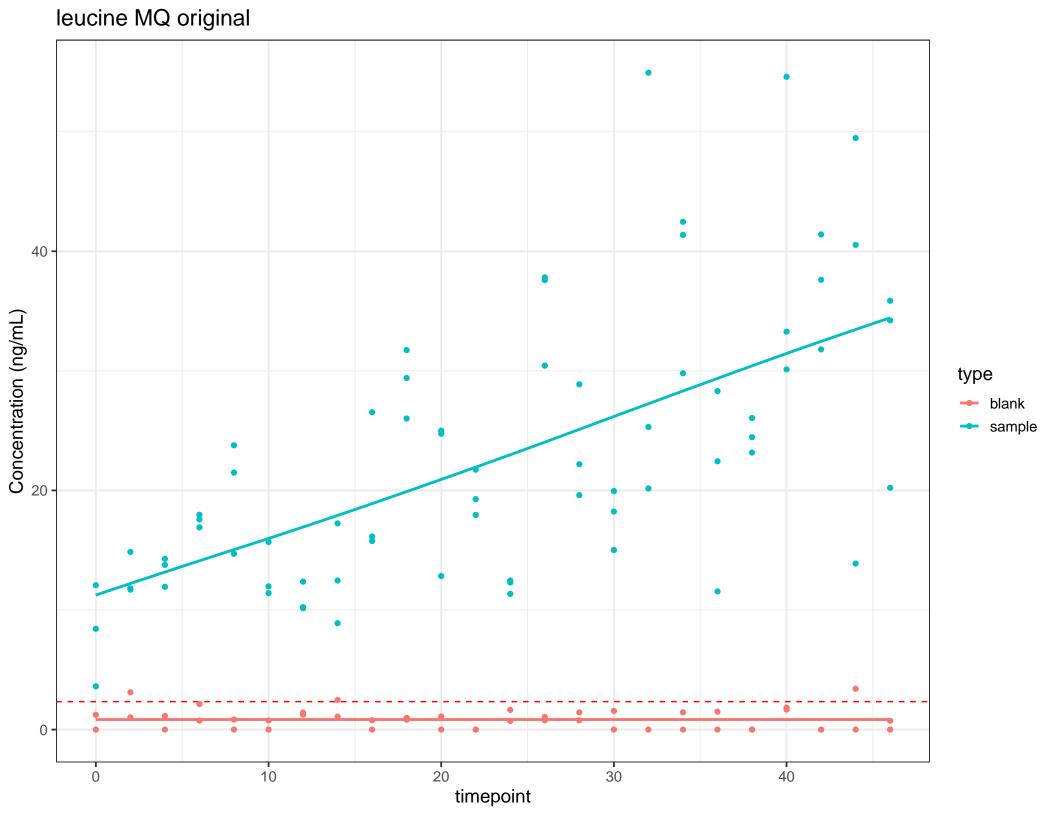
timepoint

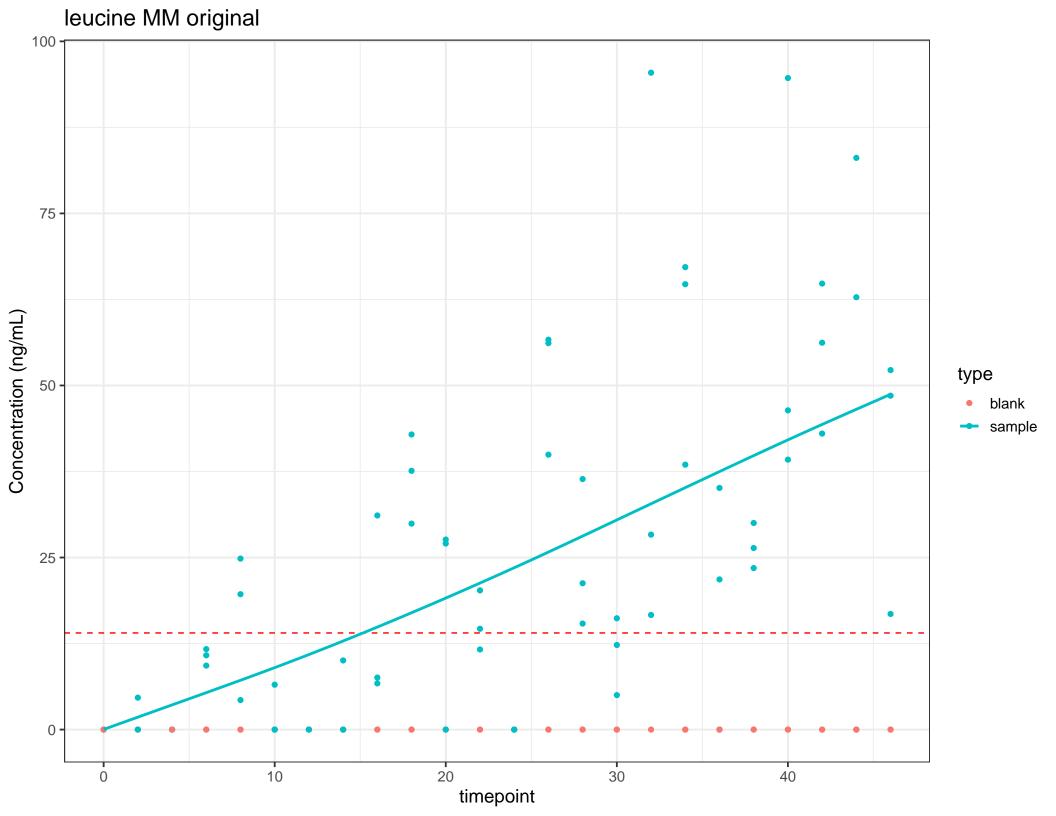


isoleucine MM original 100 -75 **-**Concentration (ng/mL) type 50 blank sample 25 -0 -20 10 30 40 0 timepoint



kynurenine MM original 2 -Concentration (ng/mL) type blank sample 0 20 30 10 40 0 timepoint





lumichrome MQ original 20 -Concentration (ng/mL) type blank sample 0 -

30

40

10

0

20

timepoint

malic acid MM original 90 -Concentration (ng/mL) type blank sample 30 0 -10 20 40 30 0 timepoint

methionine MQ original 25 -20 -Concentration (ng/mL) type blank sample 10 -5 -10 20 30 40 0 timepoint

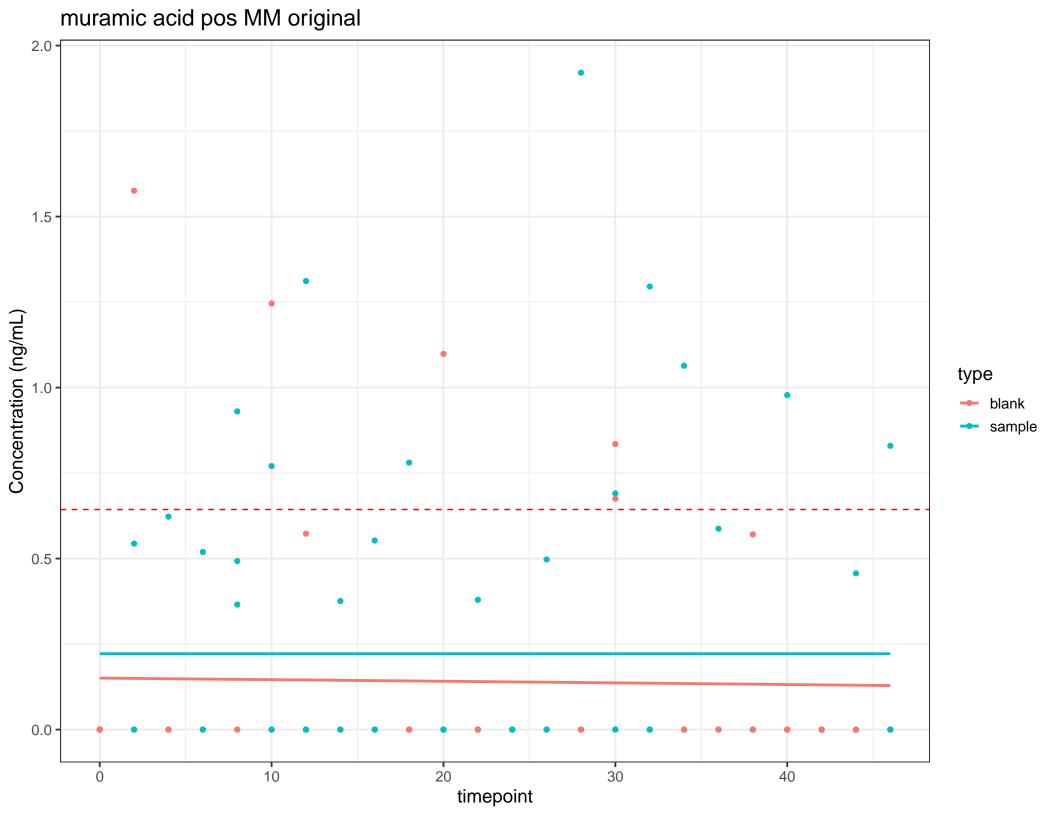
methionine MM original 40 -Concentration (ng/mL) type blank sample 0 -10 20 30 40

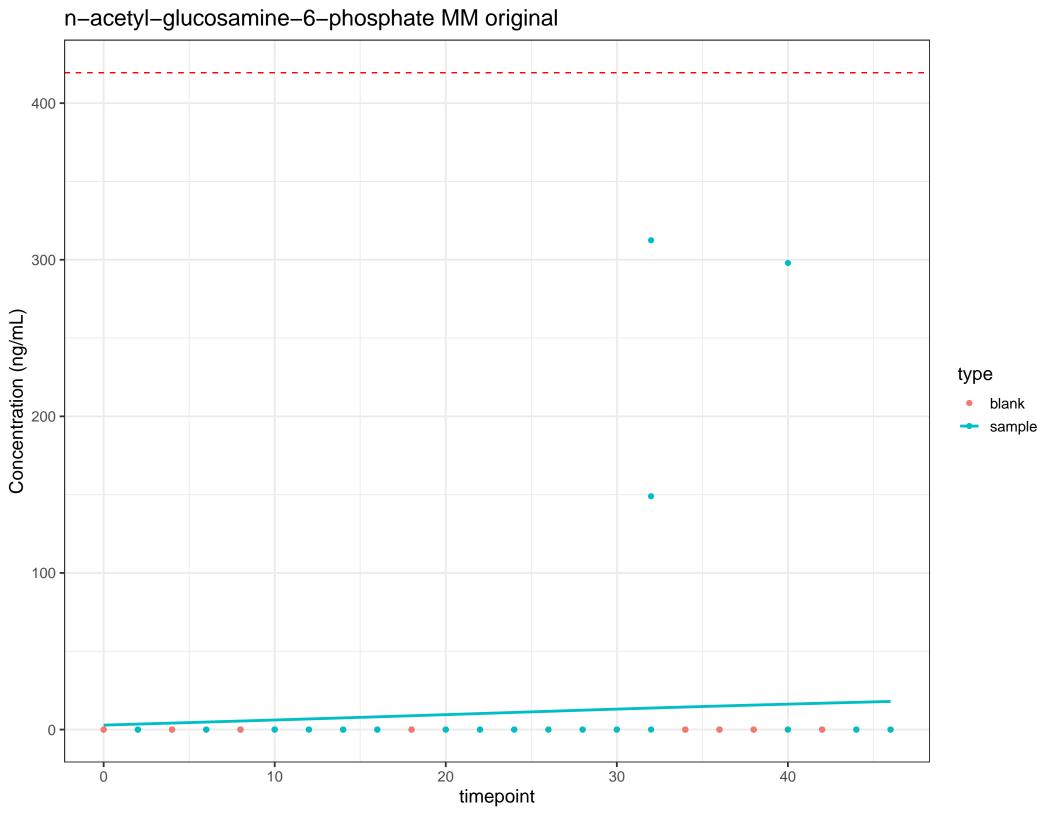
timepoint

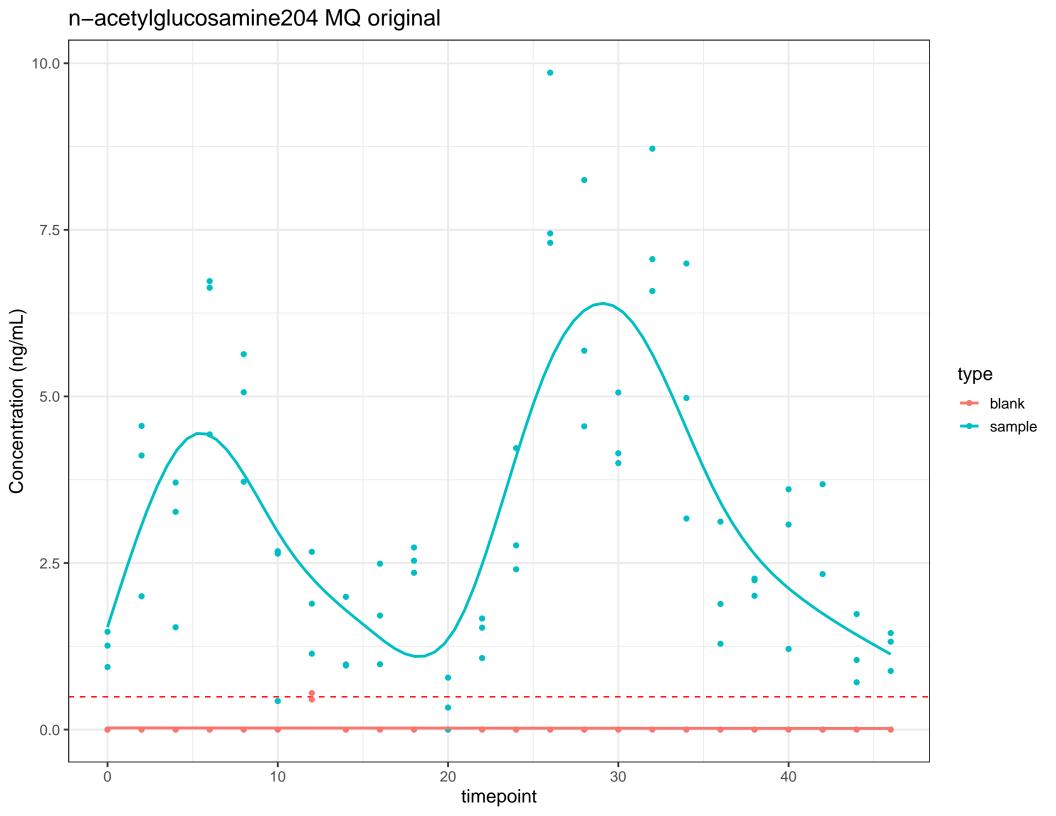
0

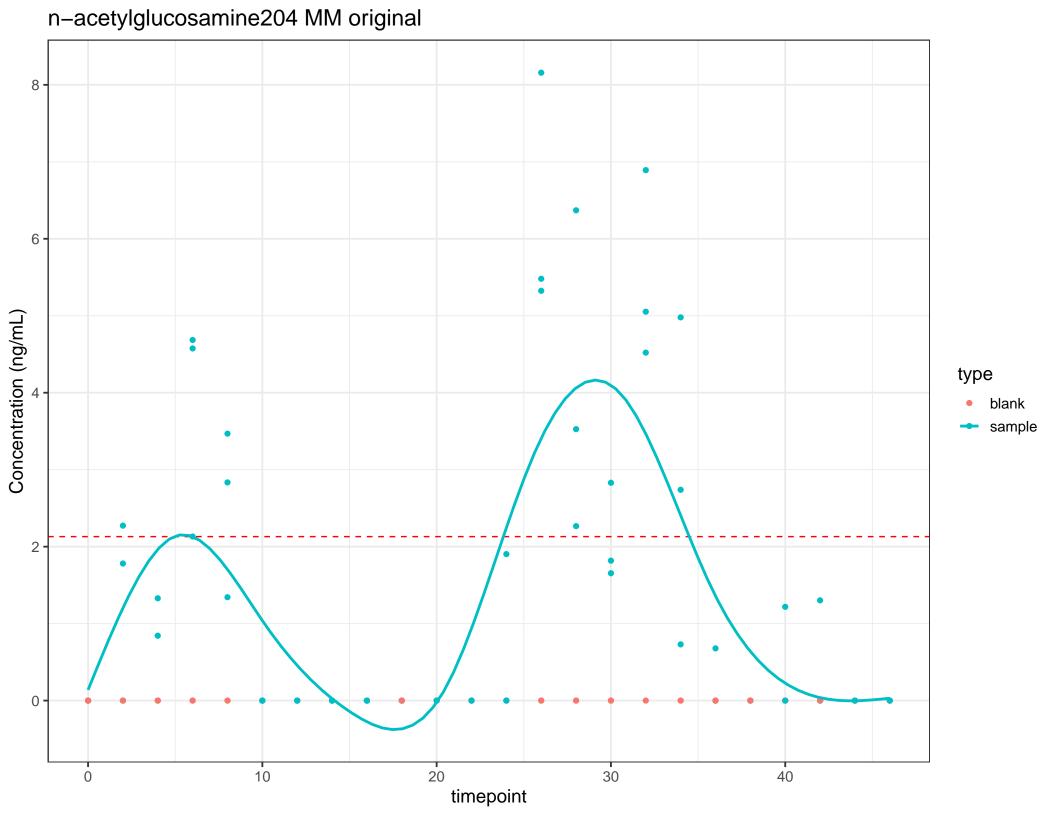
methylmalonic acid MM original 3 Concentration (ng/mL) type blank sample 0 20 10 30 40 0 timepoint

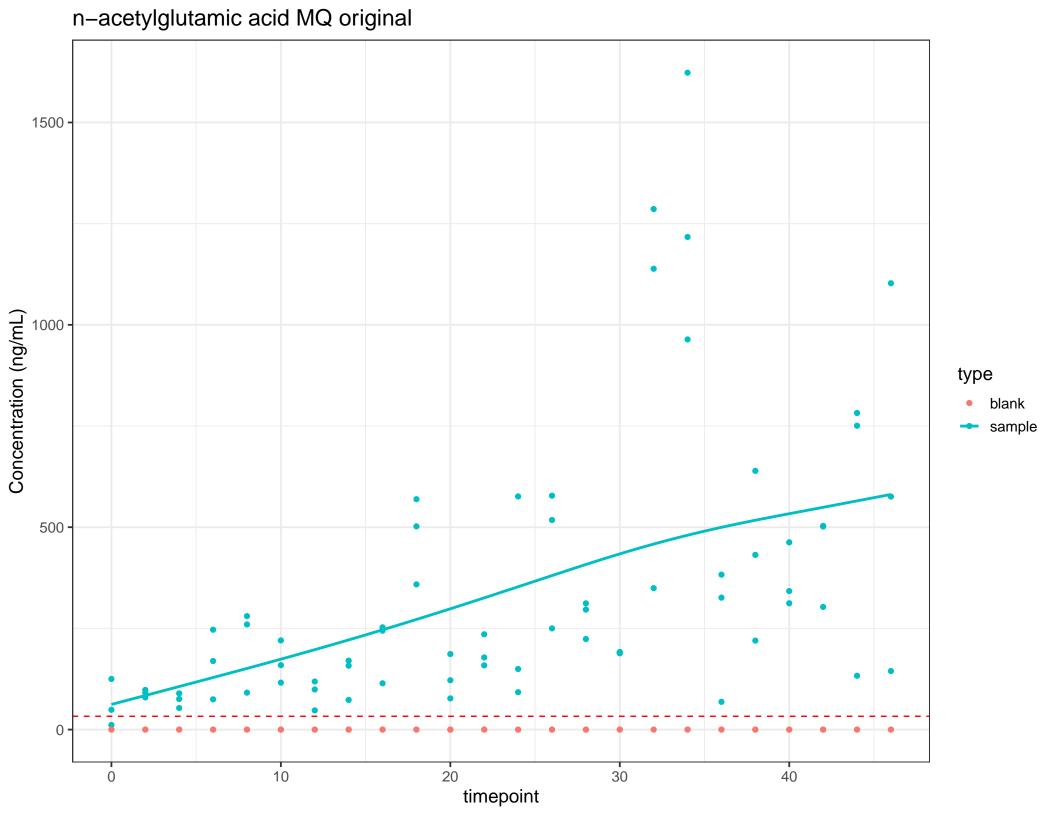
muramic acid pos MQ original 1.0 -Concentration (ng/mL) type blank sample 0.0 10 20 30 40 0 timepoint

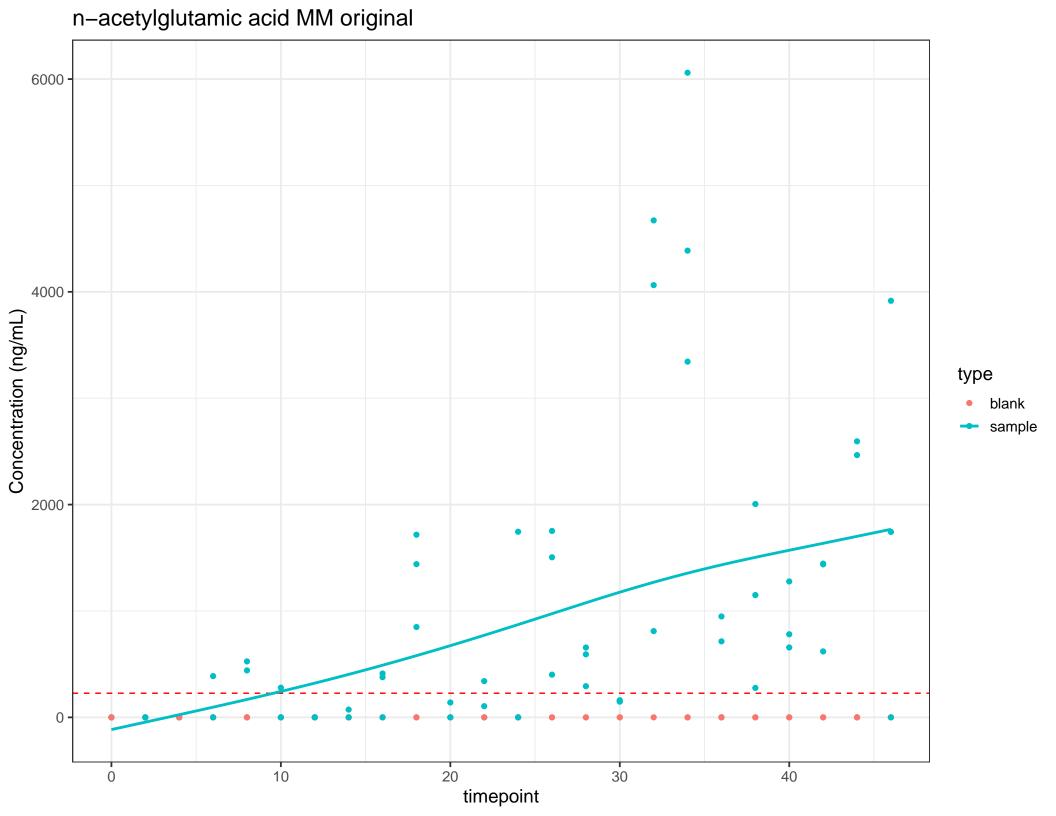


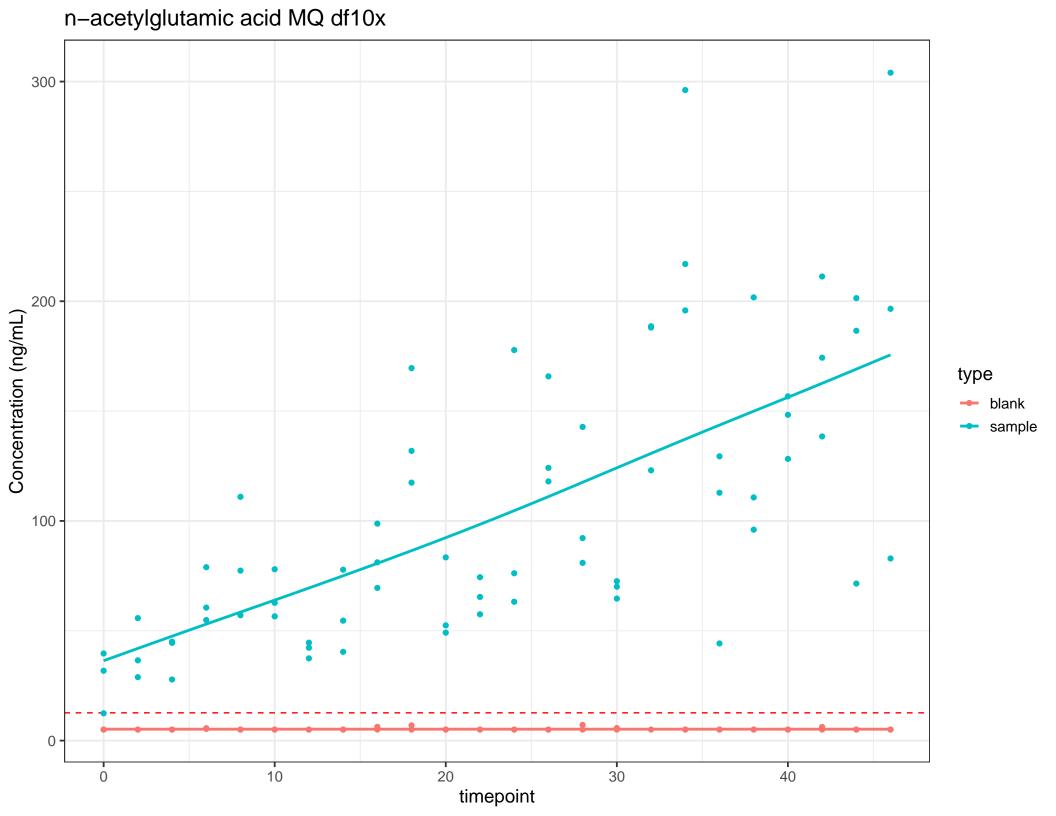












n-acetylmuramic acid276 MM original 1.0 Concentration (ng/mL) type blank sample 0.0

30

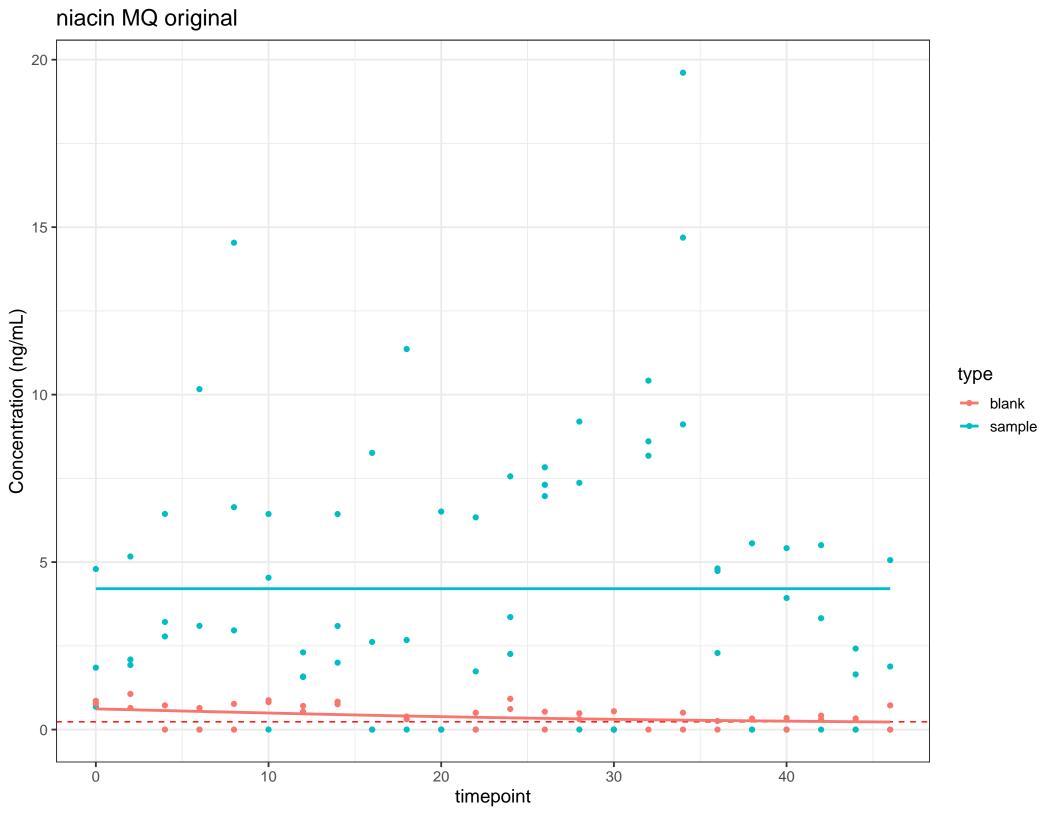
40

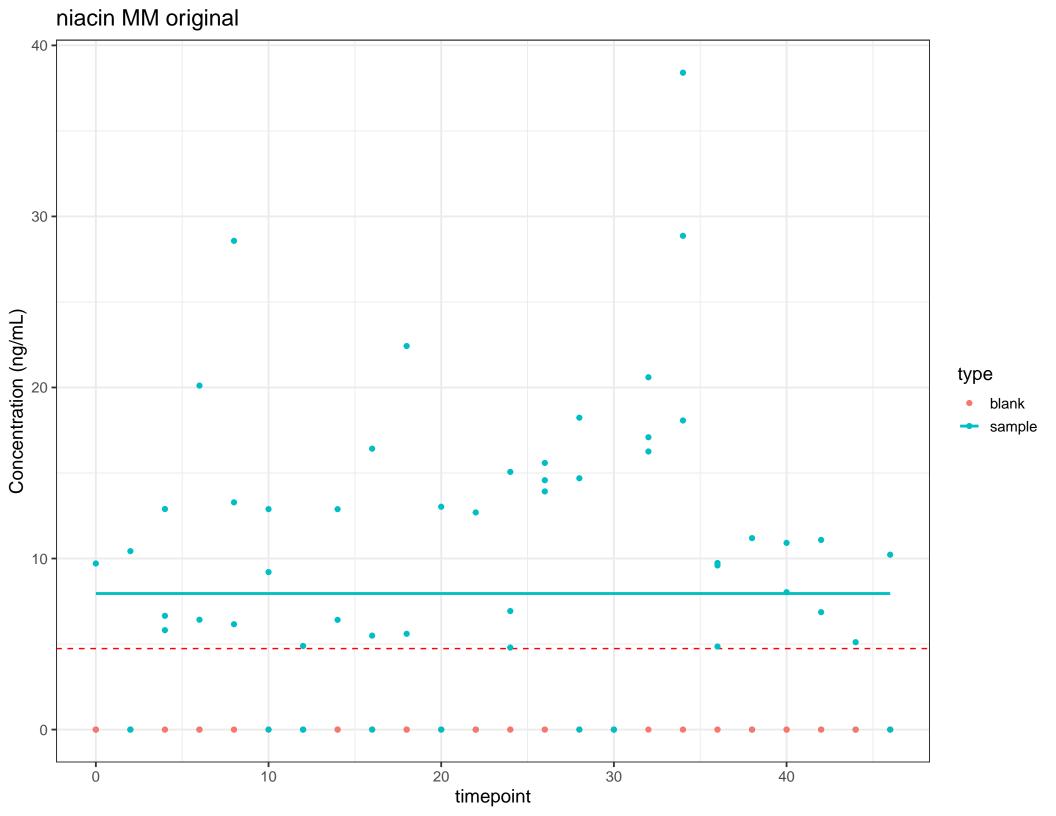
10

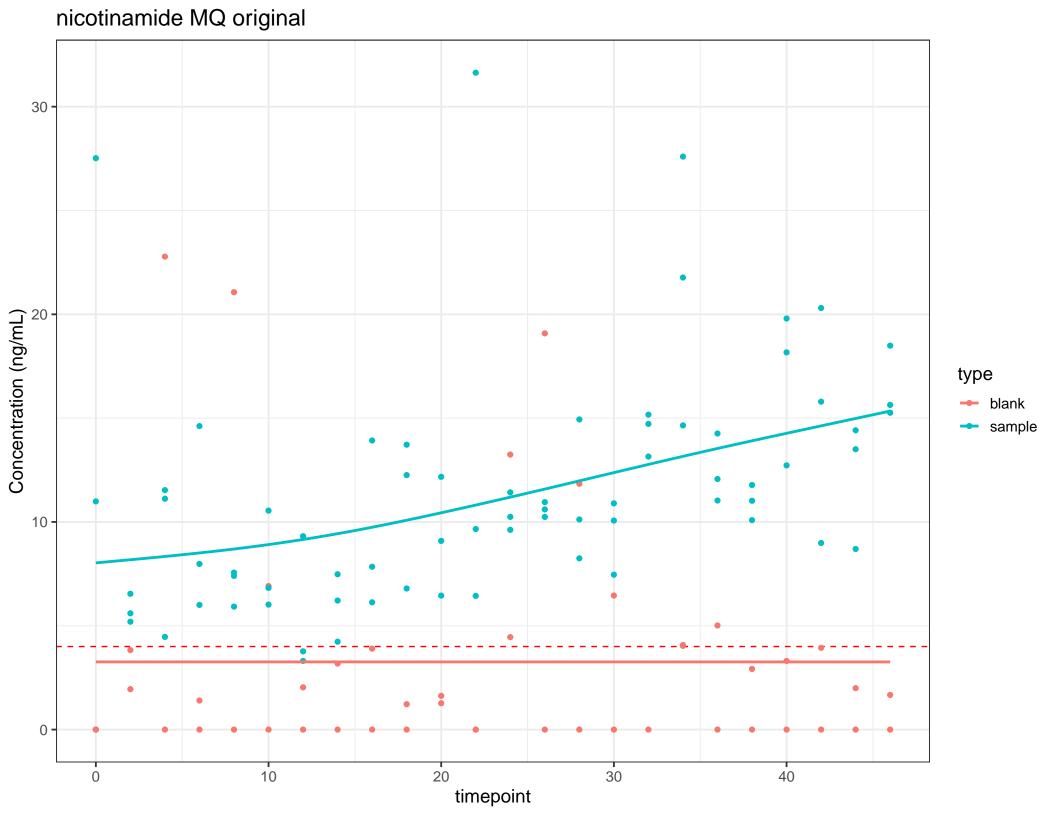
0

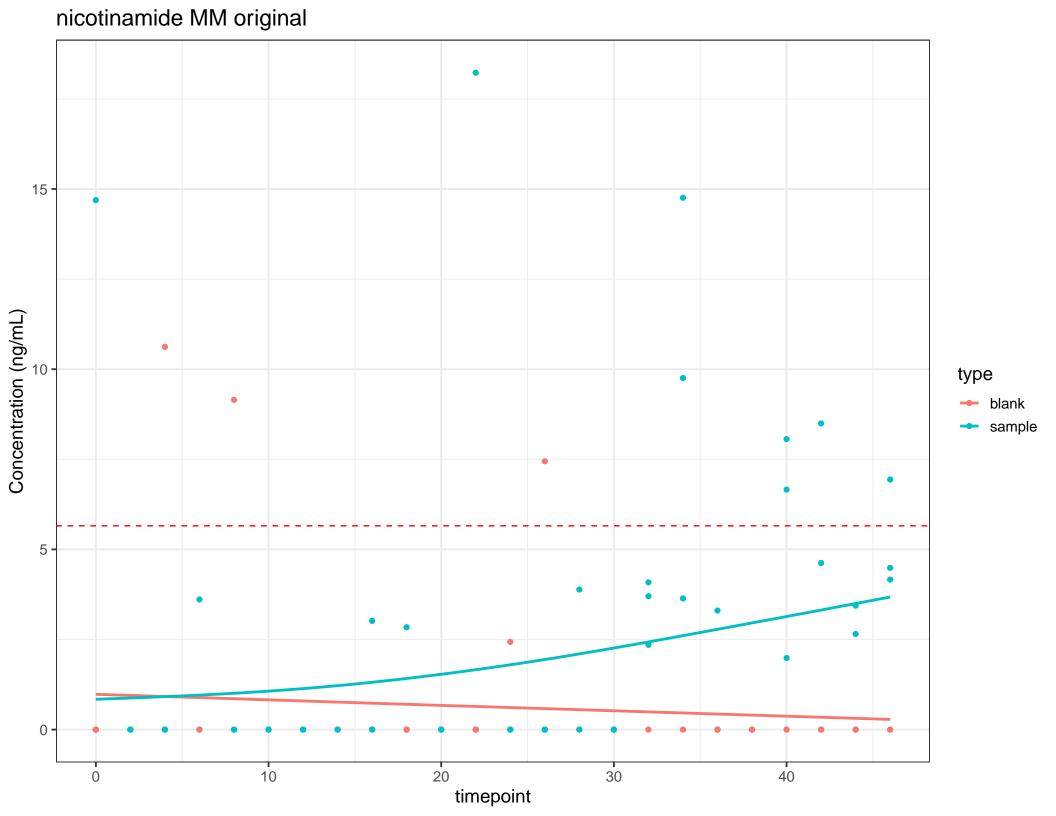
20

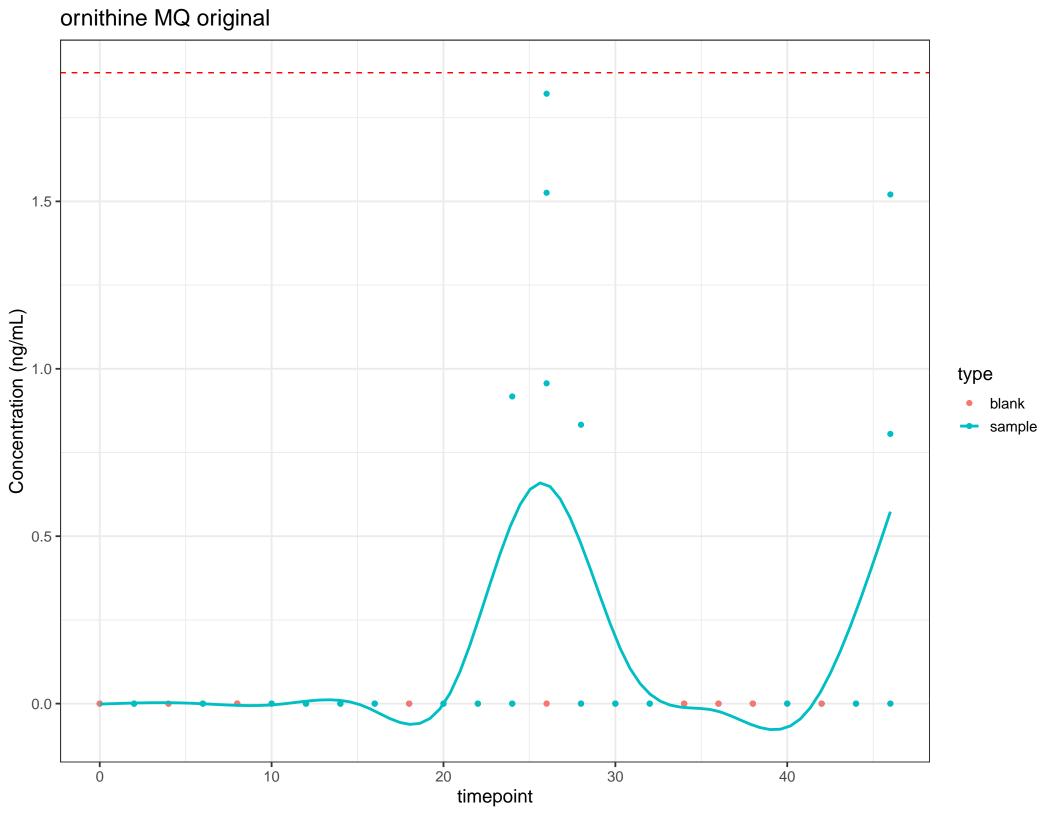
timepoint





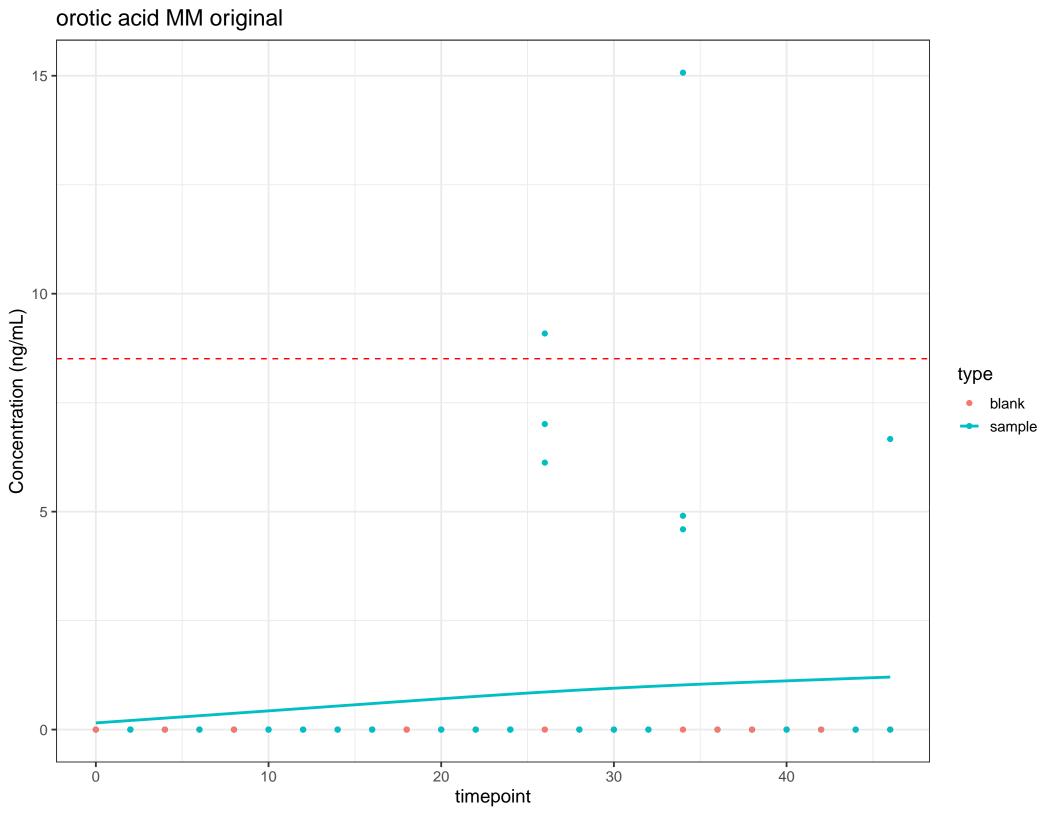


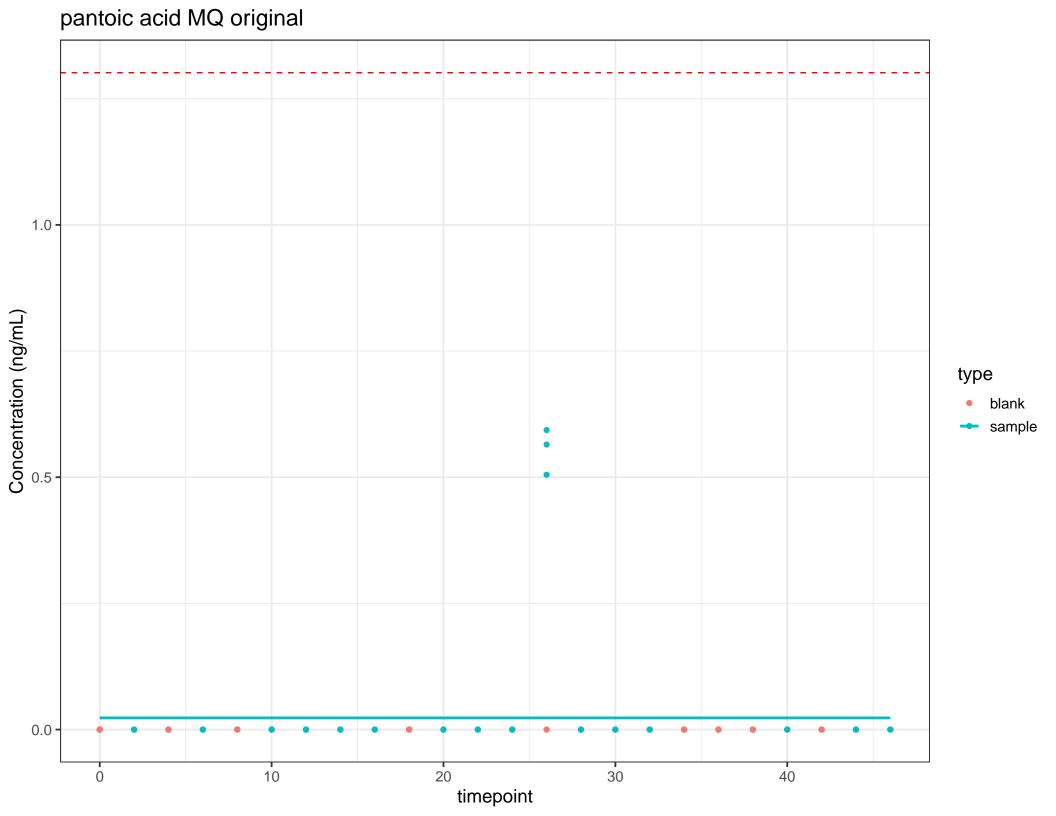


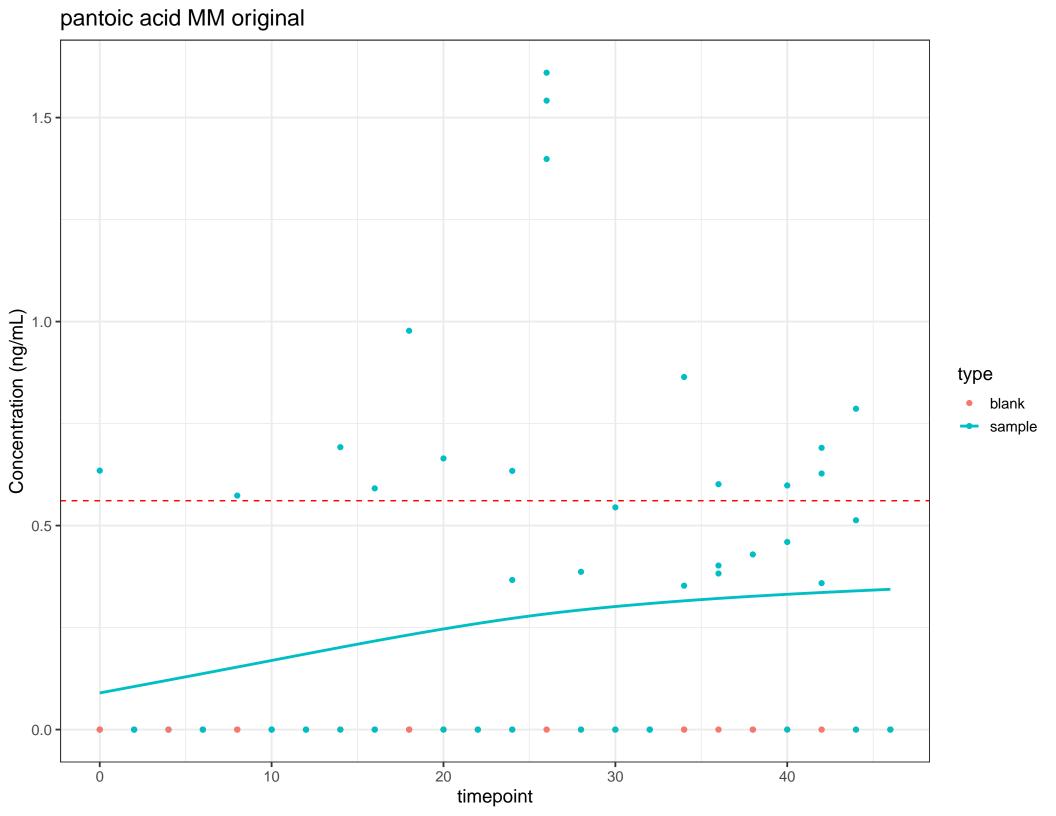


ornithine MM original 400 -300 -Concentration (ng/mL) type blank sample 100 0 10 20 40 30 0 timepoint

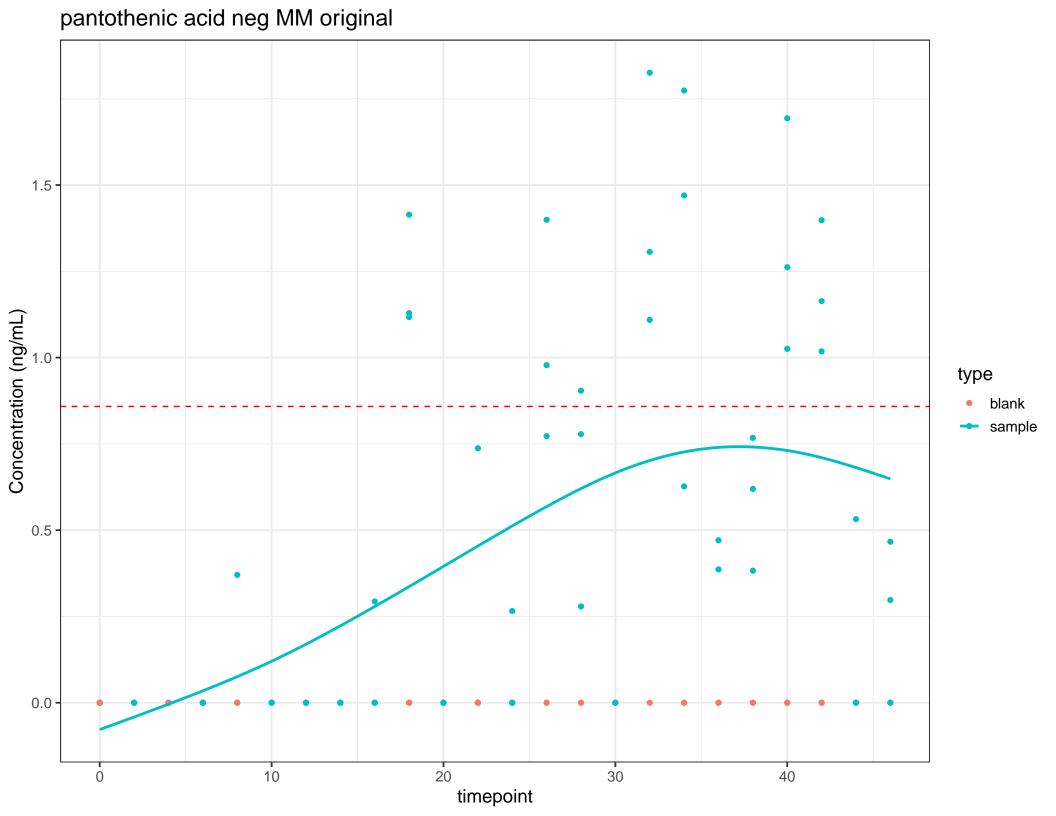
orotic acid MQ original • 2.0 -1.5 -Concentration (ng/mL) type blank sample 0.5 0.0 10 20 30 40 0 timepoint

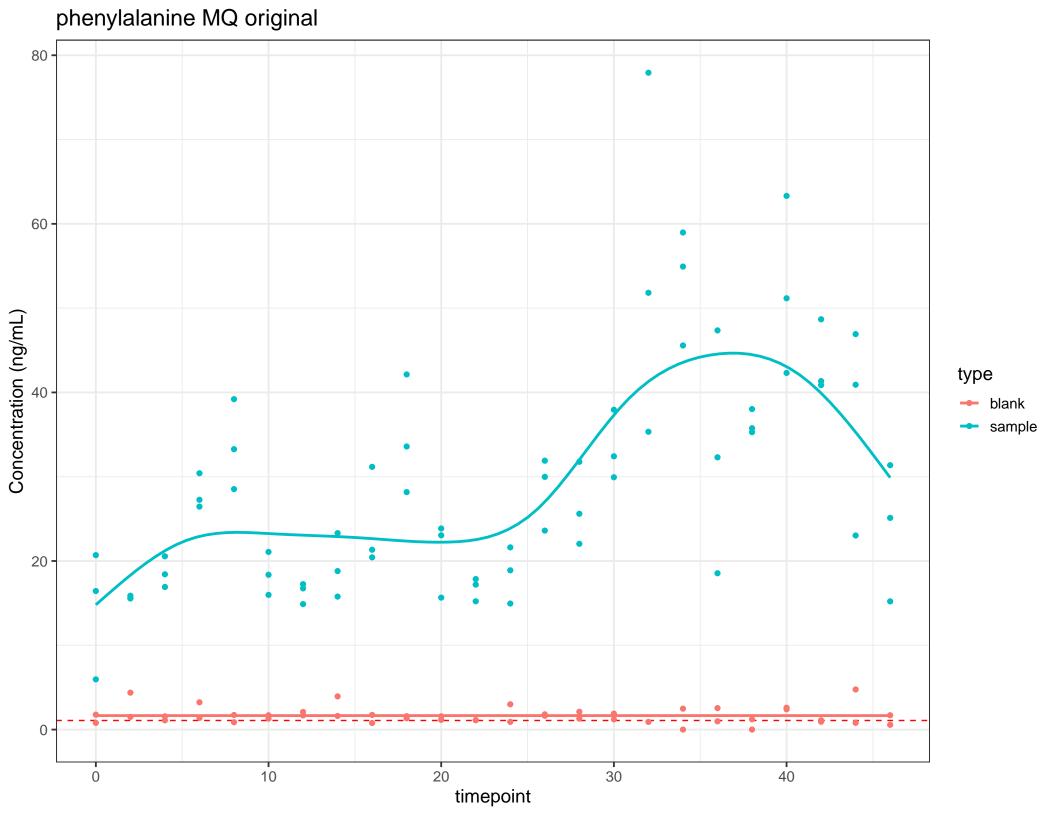


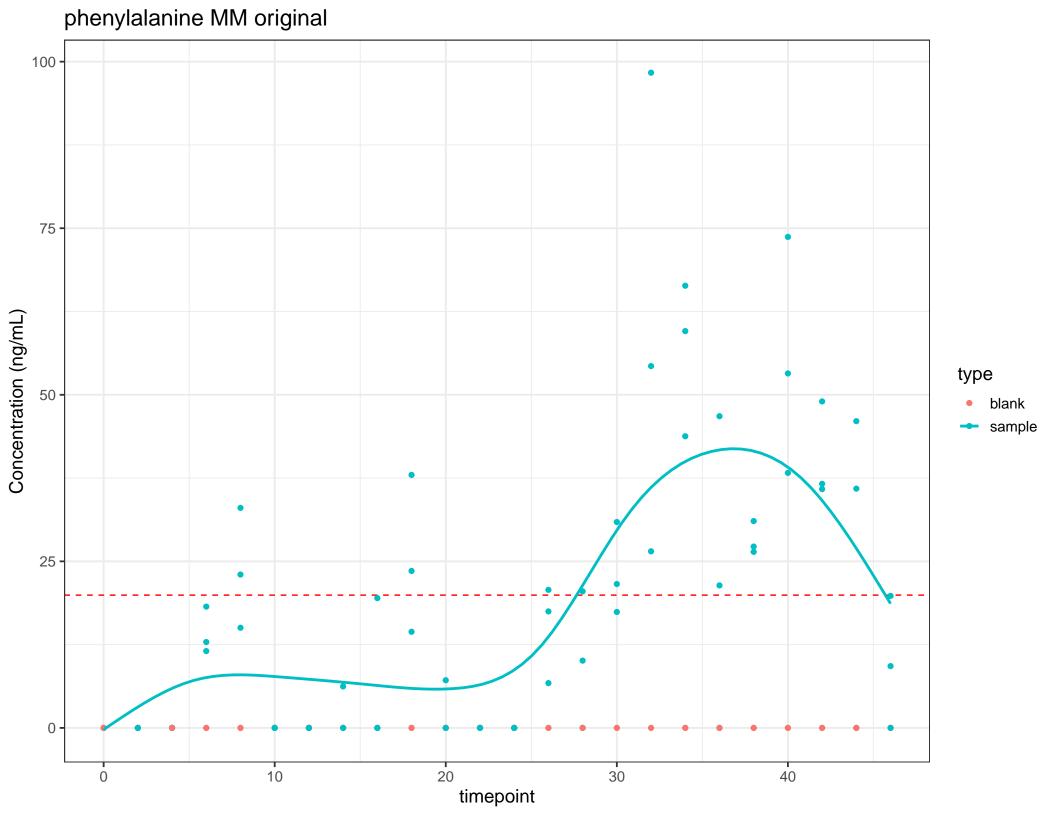


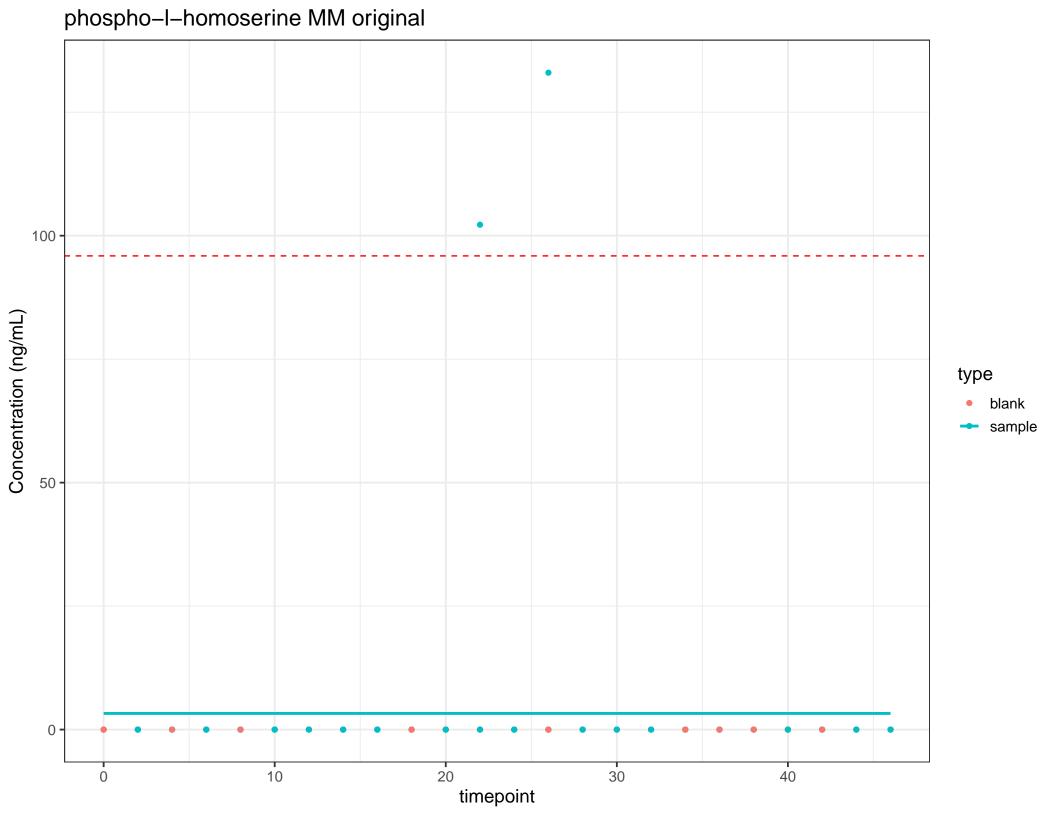


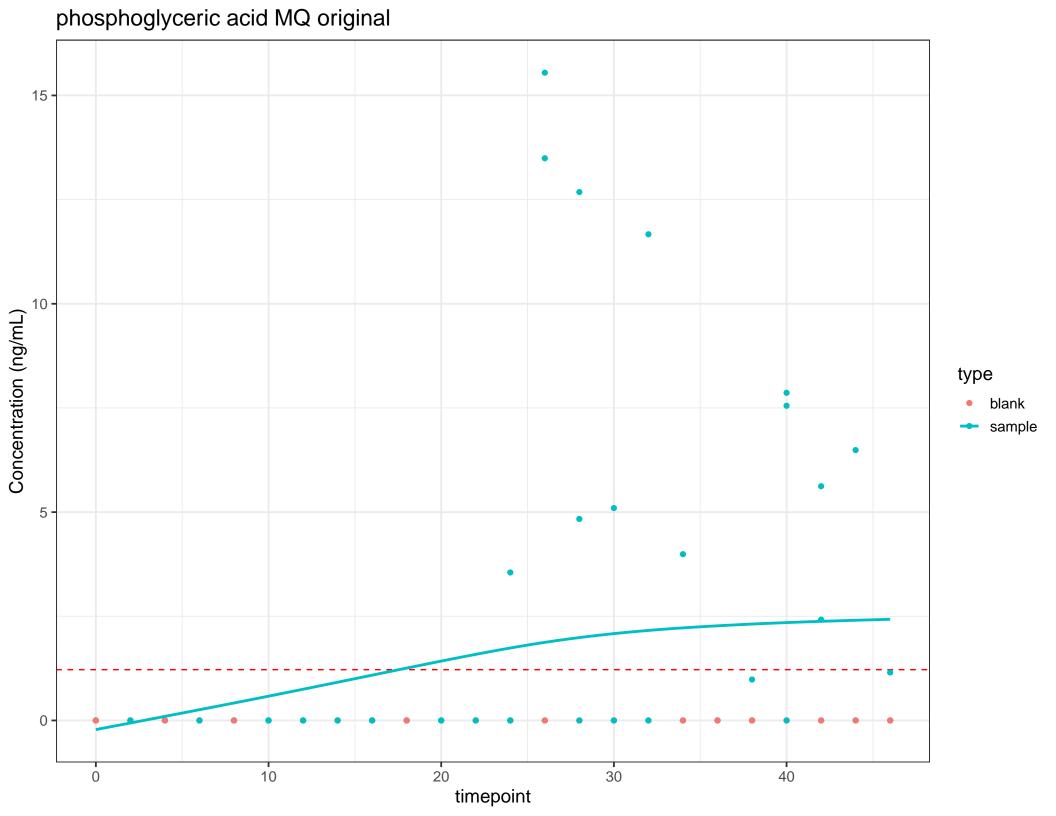
pantothenic acid neg MQ original 2.0 Concentration (ng/mL) type blank sample 0.5 0.0 10 20 30 40 0 timepoint

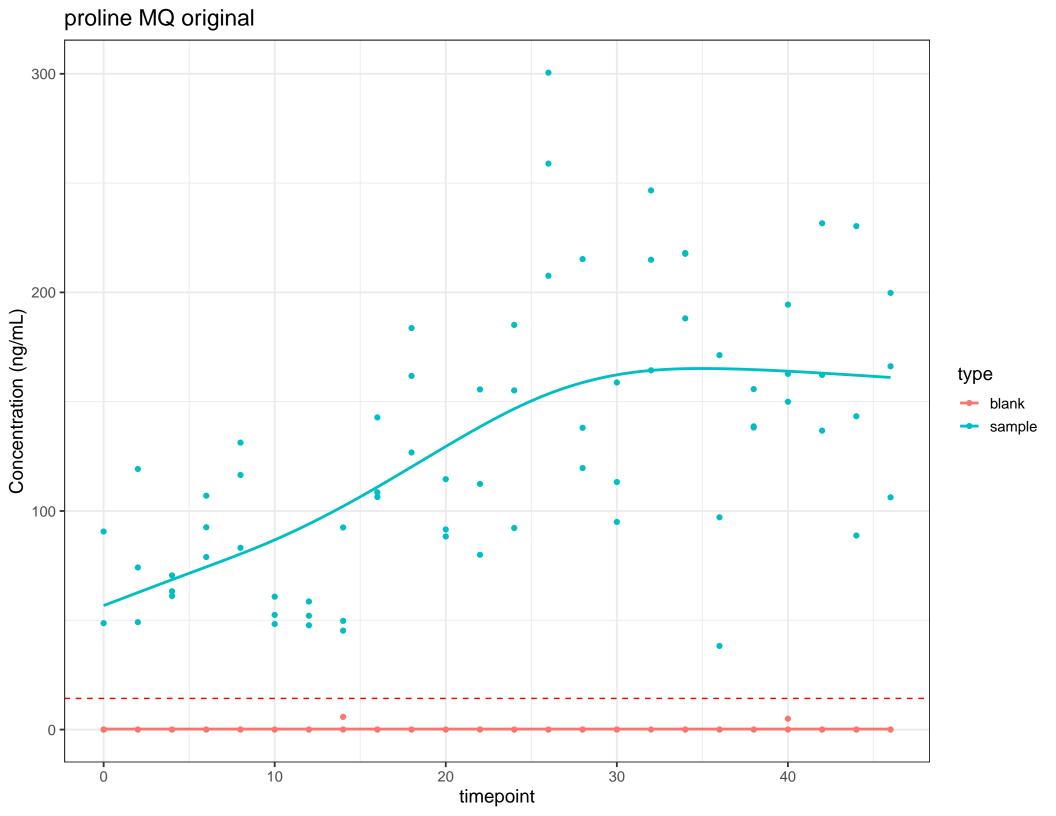


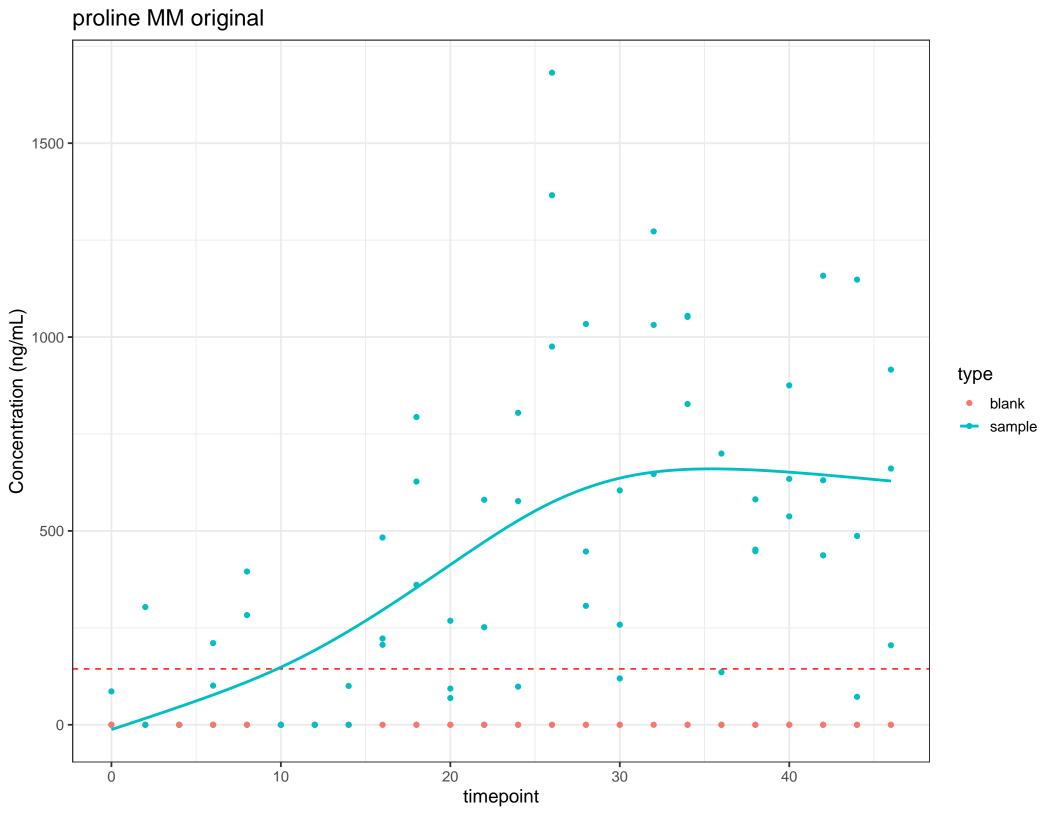


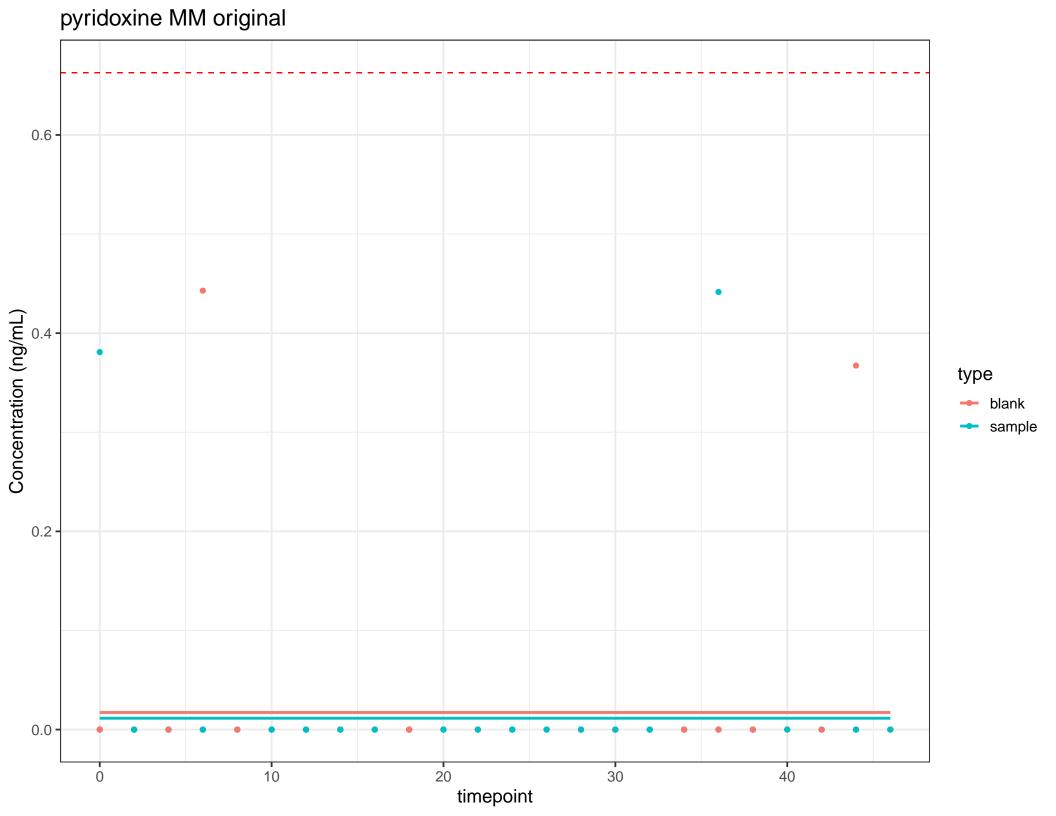




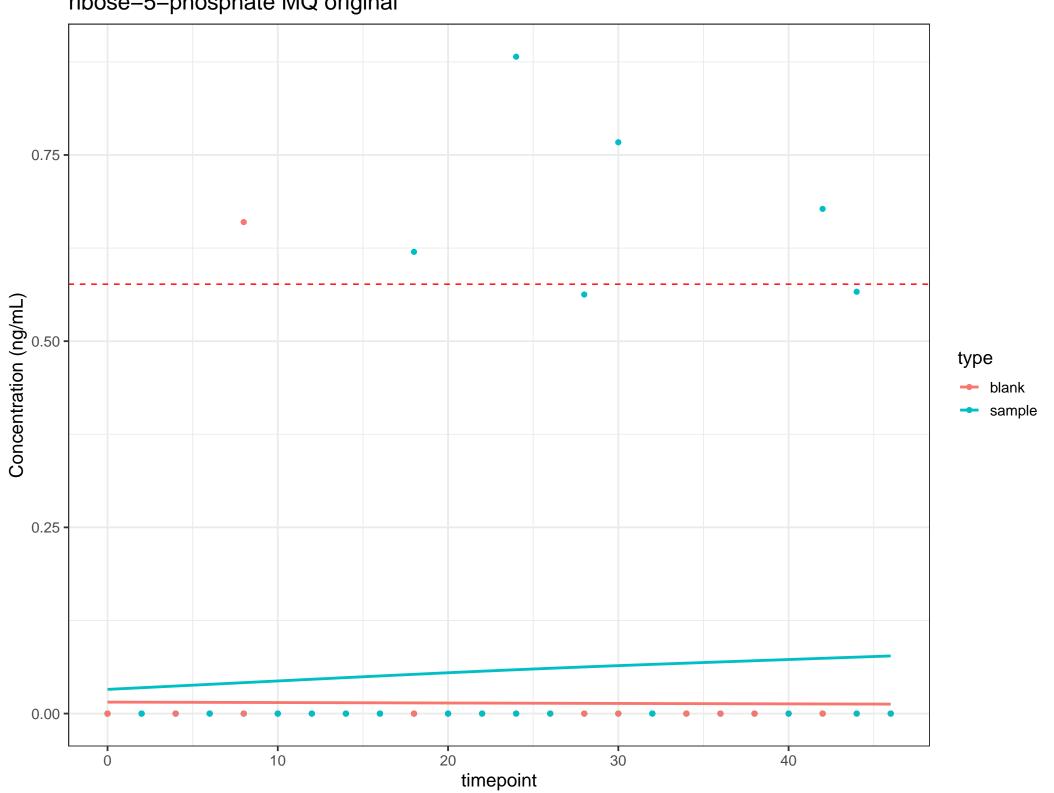




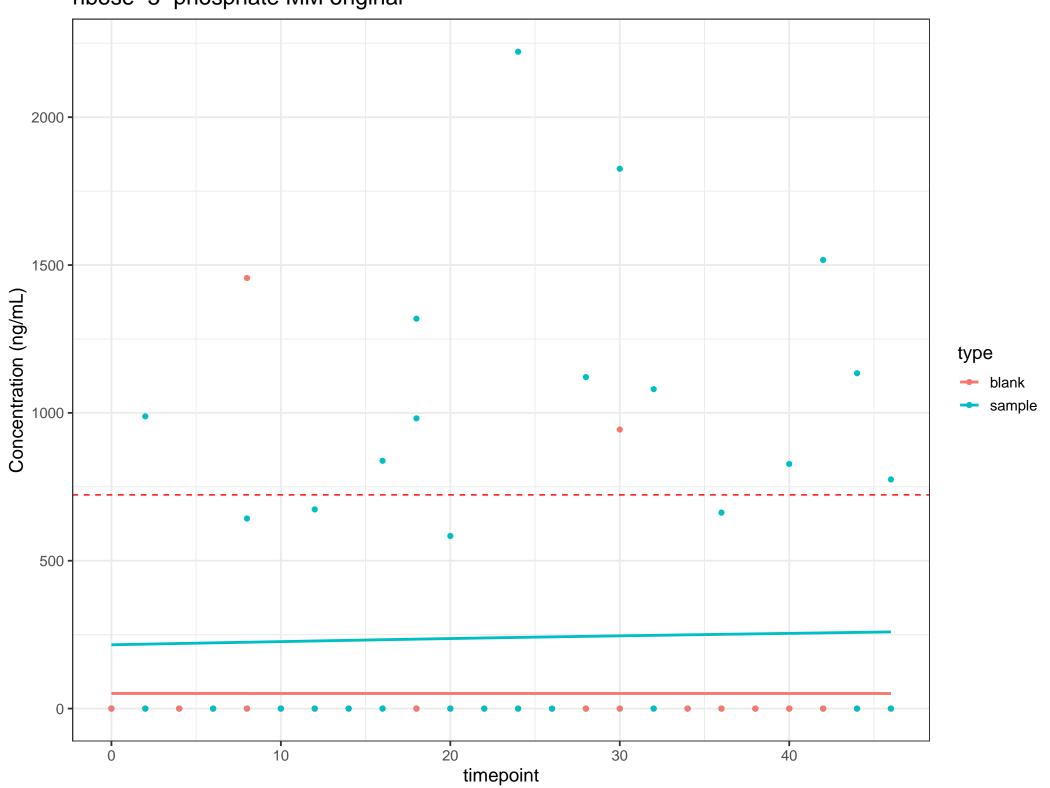




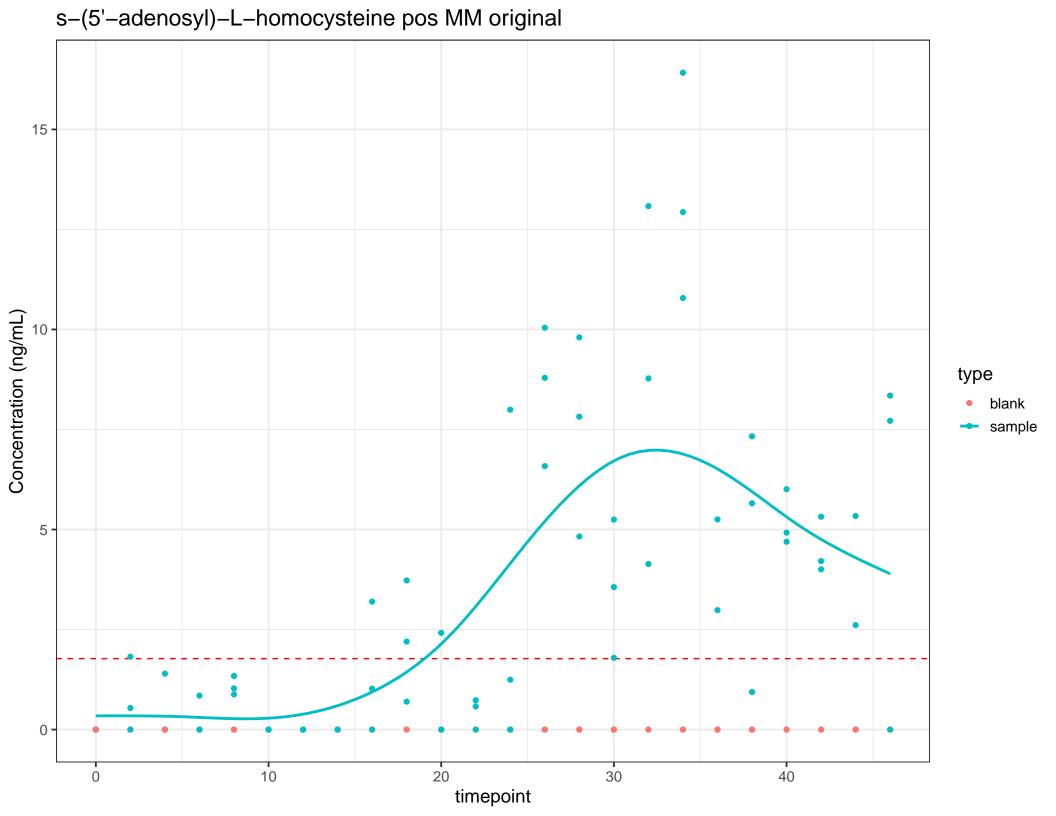
ribose-5-phosphate MQ original



ribose-5-phosphate MM original



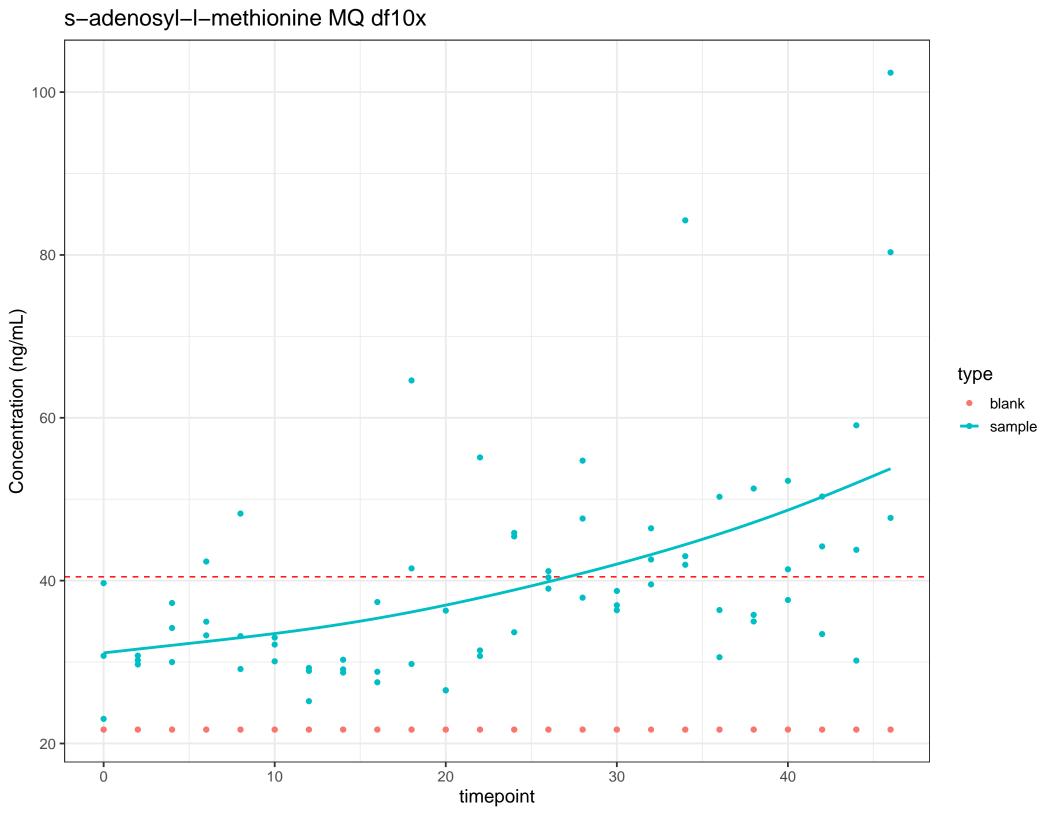
s-(5'-adenosyl)-L-homocysteine pos MQ original 20 -Concentration (ng/mL) type blank sample 5 -10 20 40 30 0 timepoint



s-adenosyl-l-methionine MQ original 1500 Concentration (ng/mL) type blank sample 500 -0 20 10 30 40 0

timepoint

s-adenosyl-l-methionine MM original 4000 3000 Concentration (ng/mL) type blank sample 1000 0 20 10 30 40 0 timepoint



sodium taurocholate MQ original 4 Concentration (ng/mL) type blank sample 0

30

40

20

timepoint

10

sodium taurocholate MM original 2 · Concentration (ng/mL) type blank sample 0

30

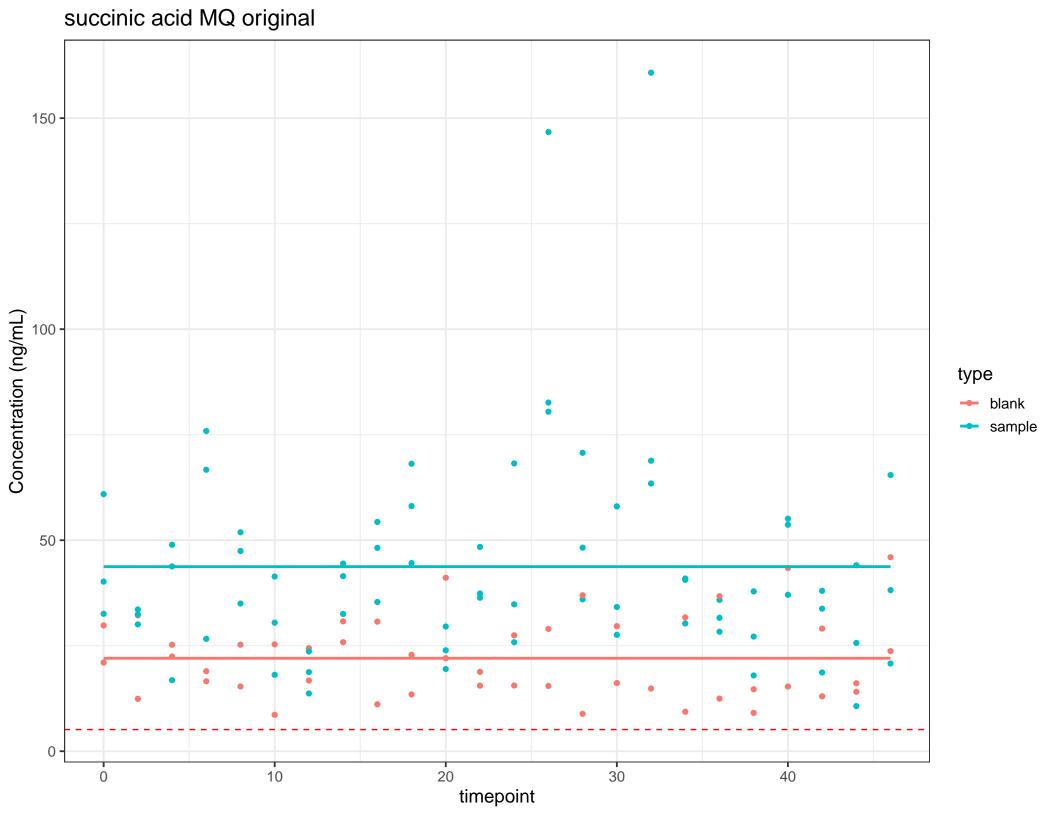
40

20

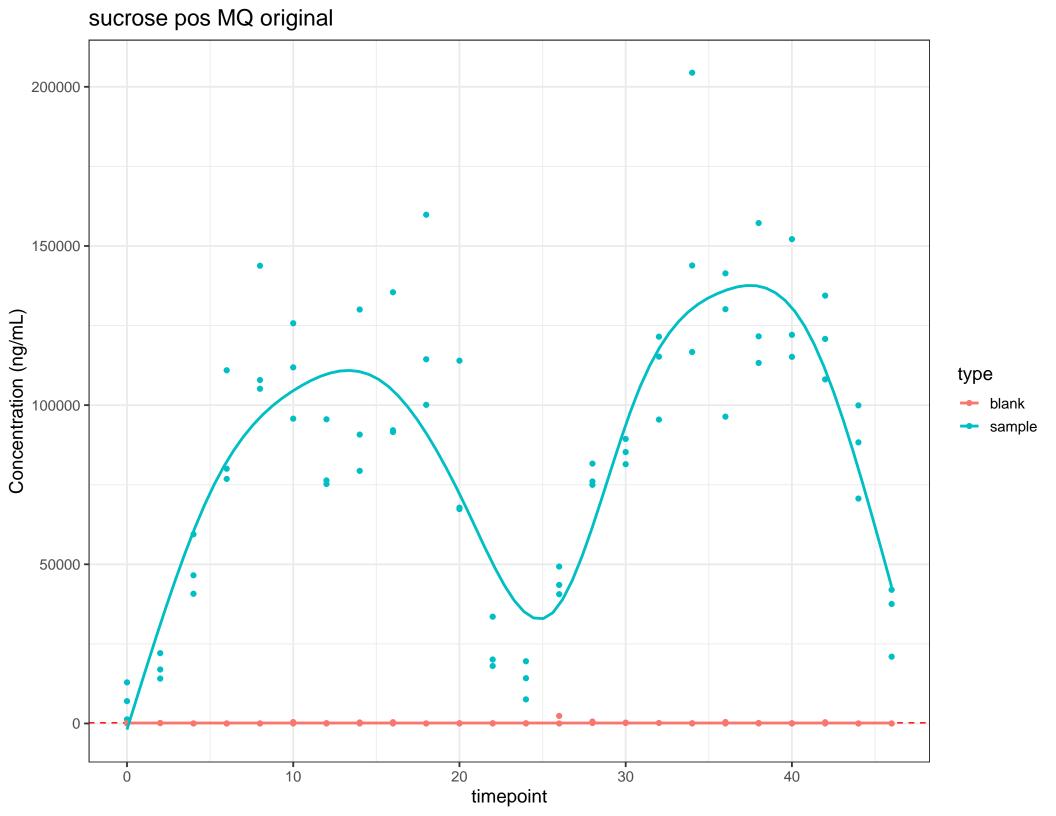
timepoint

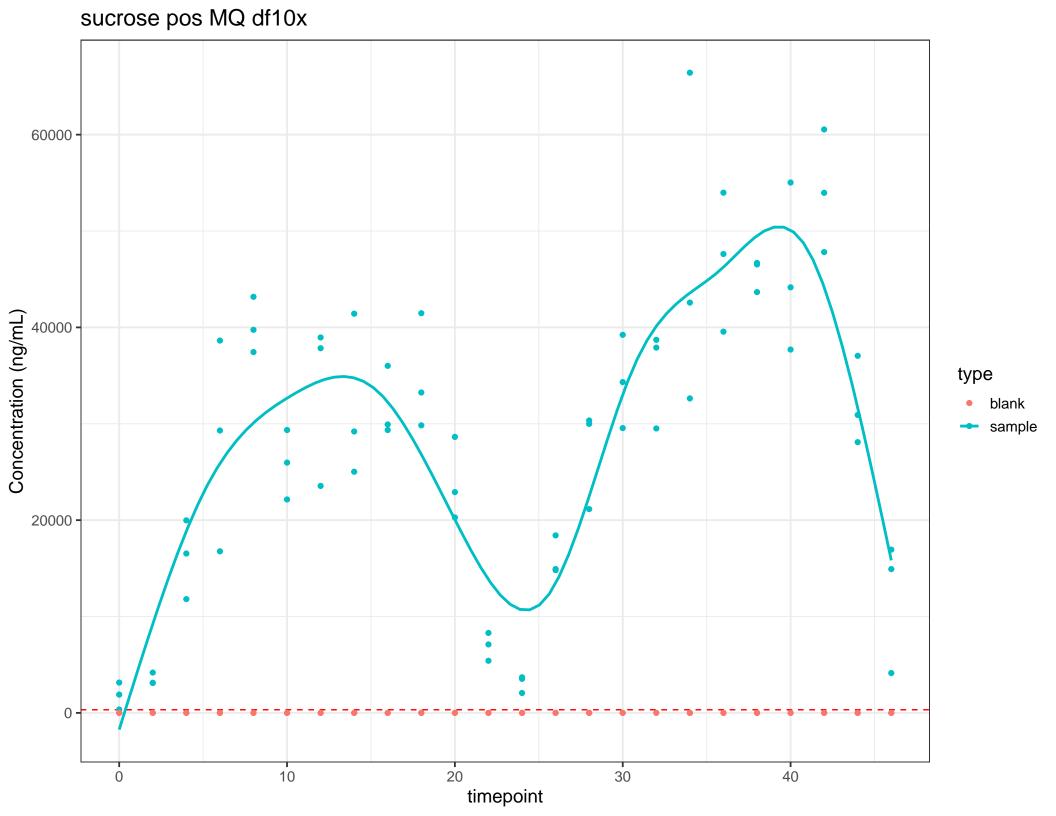
10

spermidine MM original 750 **-**Concentration (ng/mL) type blank sample 250 -0 20 10 30 40 0 timepoint

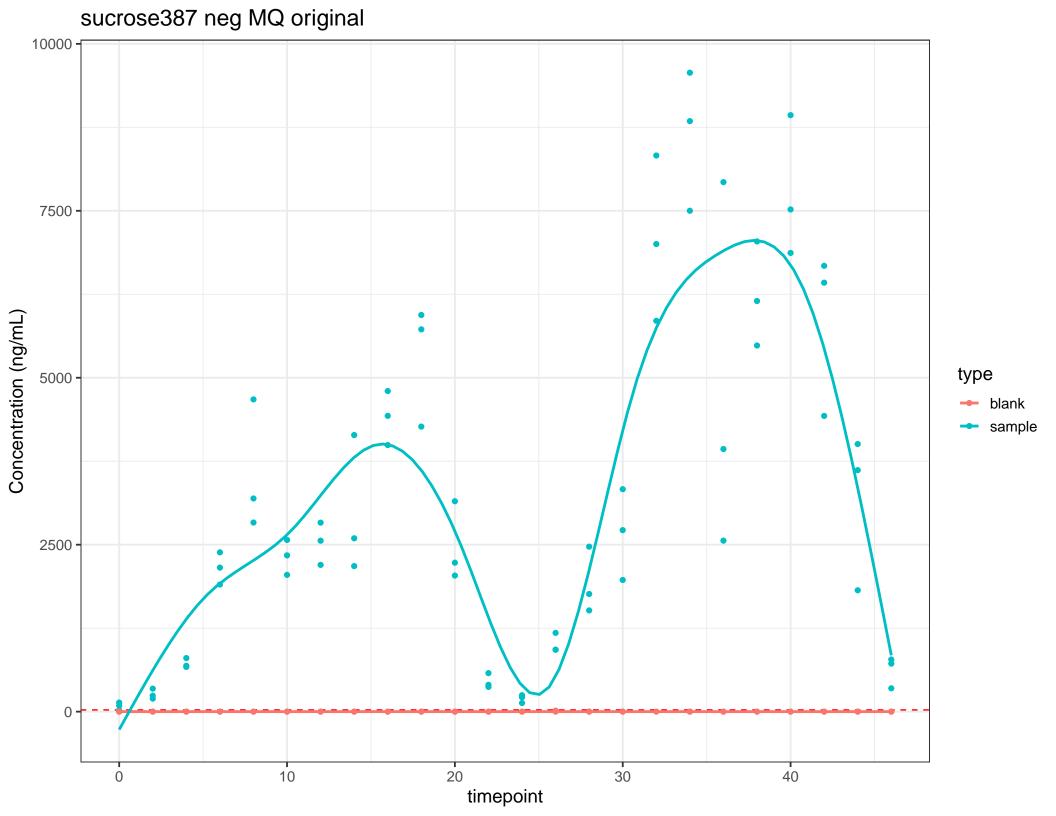


succinic acid MM original 250 -200 -Concentration (ng/mL) type blank sample 50 -0 -20 10 40 30 0 timepoint

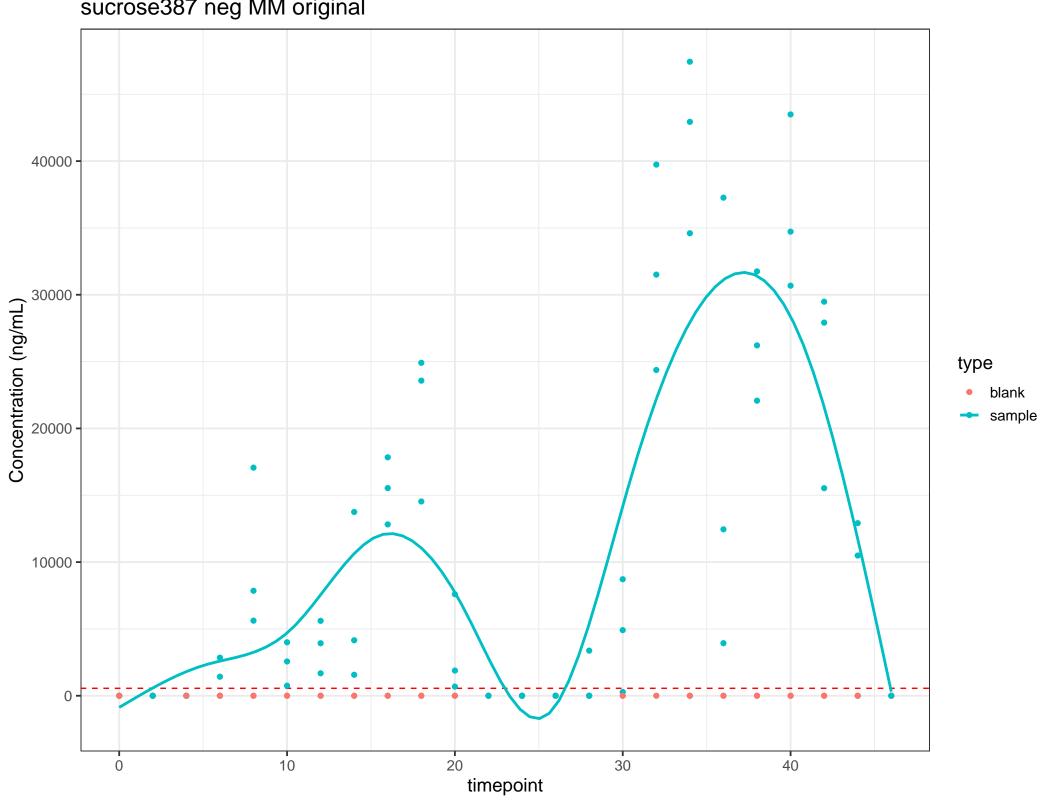




sucrose pos MQ df500x 2000 -Concentration (ng/mL) type blank sample 0 20 10 30 40 0 timepoint

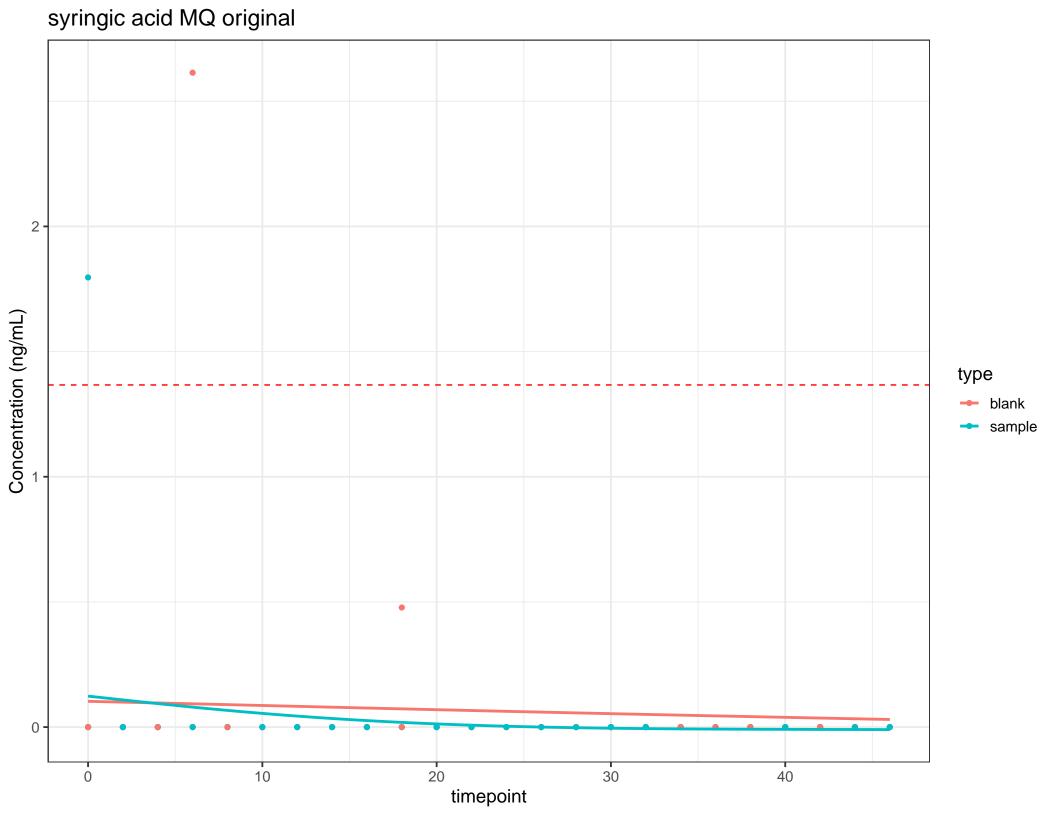


sucrose387 neg MM original



sucrose387 neg MQ df10x 3000 Concentration (ng/mL) type blank sample 1000 -20 10 30 40 0 timepoint

sucrose387 neg MQ df500x 250 200 -Concentration (ng/mL) type blank sample 50 0 -20 10 30 40 0 timepoint



tetrahydrobiopterin240 MQ original 300 Concentration (ng/mL) type blank sample 100 -0 -

30

40

20

timepoint

10

tetrahydrobiopterin240 MM original • 500 400 Concentration (ng/mL) type blank sample 100 0 -20 10 40 30 0 timepoint

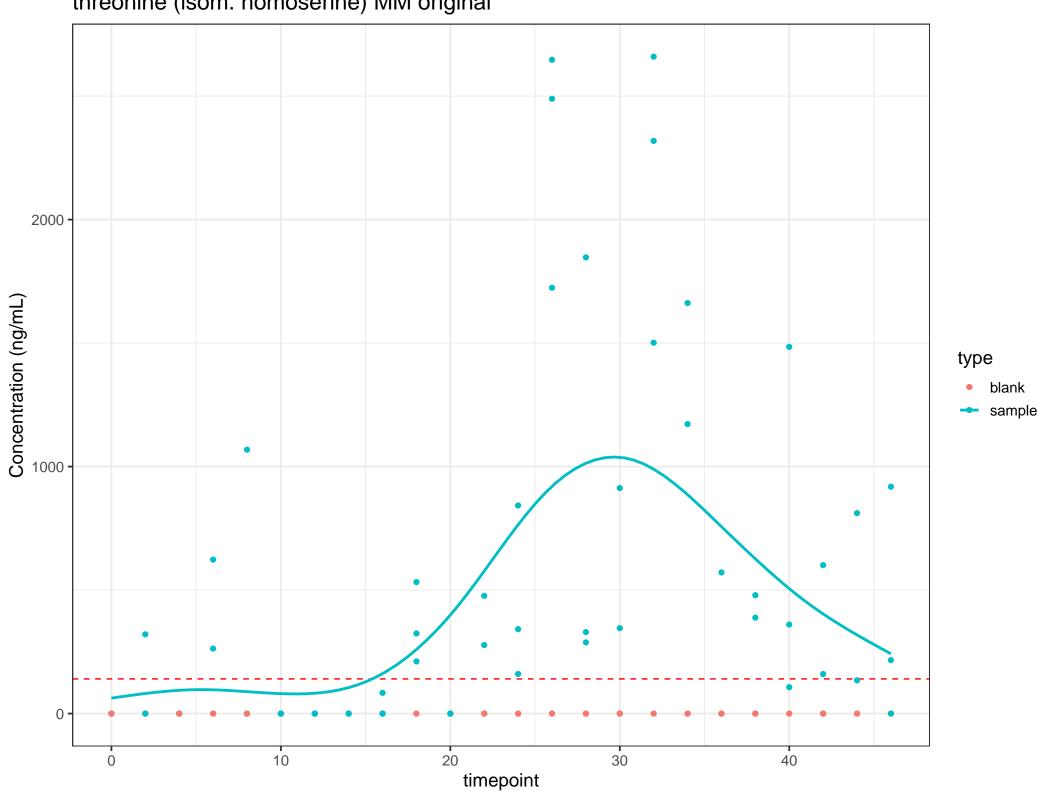
thiamine MQ original 12 -9 -Concentration (ng/mL) type blank sample 3 -0 -10 20 30 40 0 timepoint

threonine (isom. homoserine) MQ original 2.0 1.5 Concentration (ng/mL) type blank sample 0.5 0.0 10 20

30

timepoint

threonine (isom. homoserine) MM original



thymidine MQ original 40 -30 -Concentration (ng/mL) type blank sample 10 -0 -20 40 10

30

timepoint

thymidine MM original 60 -40 -Concentration (ng/mL) type blank sample 0 -

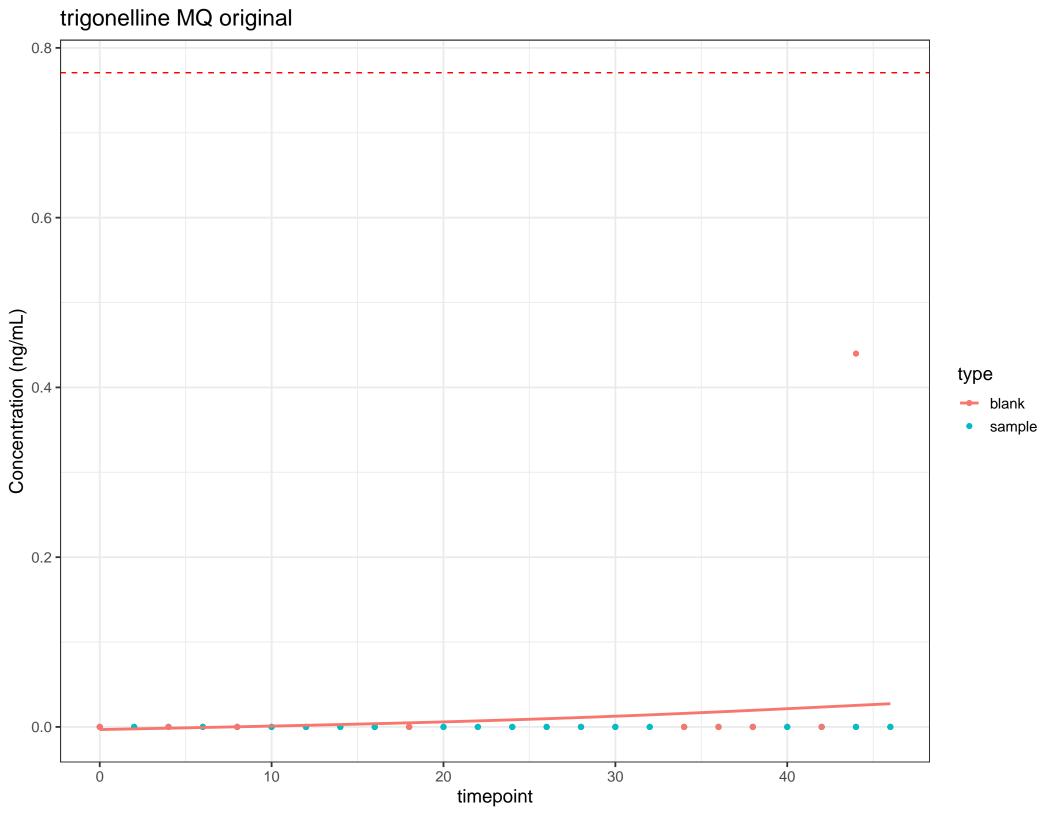
30

40

20

timepoint

10



trigonelline MM original 1.00 0.75 Concentration (ng/mL) type blank sample 0.25 0.00 10 20 30 40 0

timepoint

tryptophan MQ original 20 -Concentration (ng/mL) type blank sample 5 -

30

40

20

timepoint

10

tryptophan MM original 20 -Concentration (ng/mL) type blank sample 0 -

30

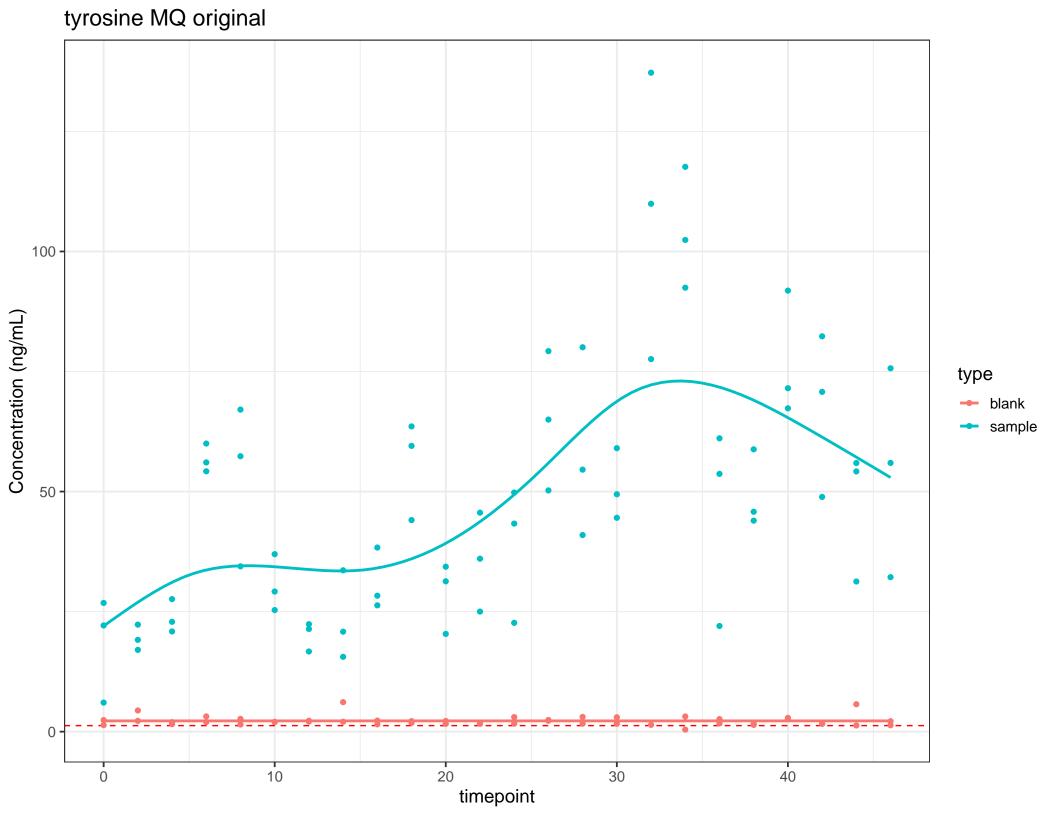
40

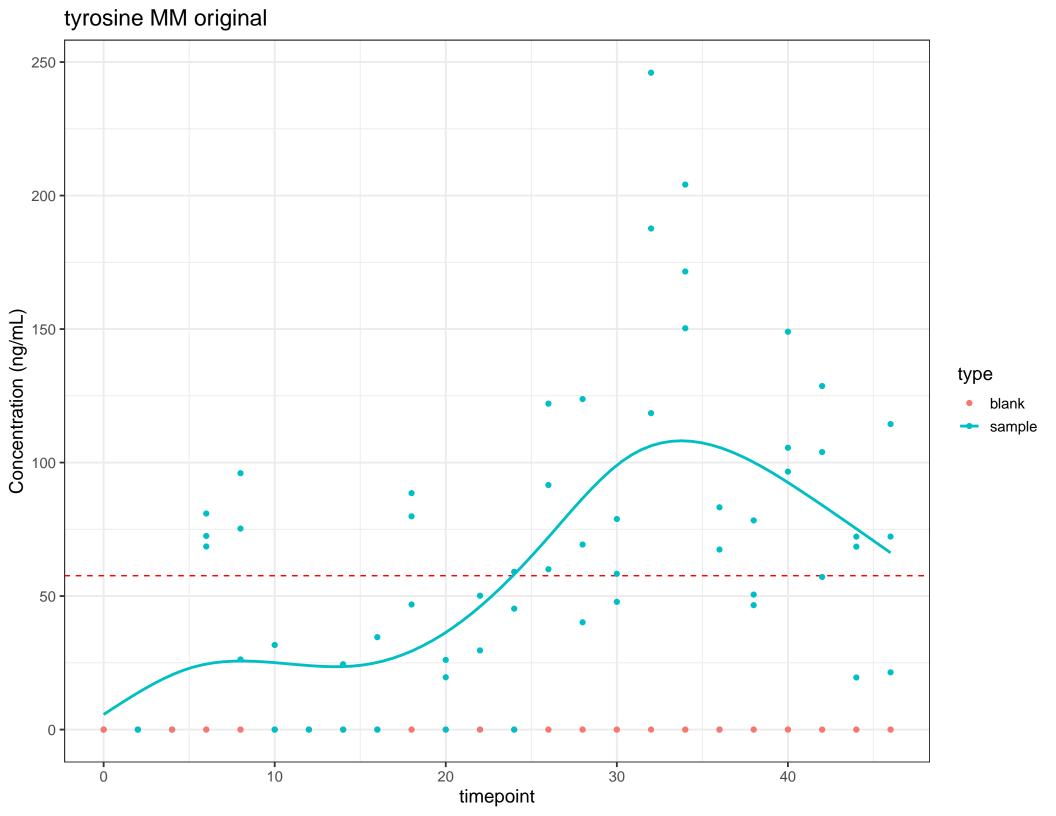
10

0

20

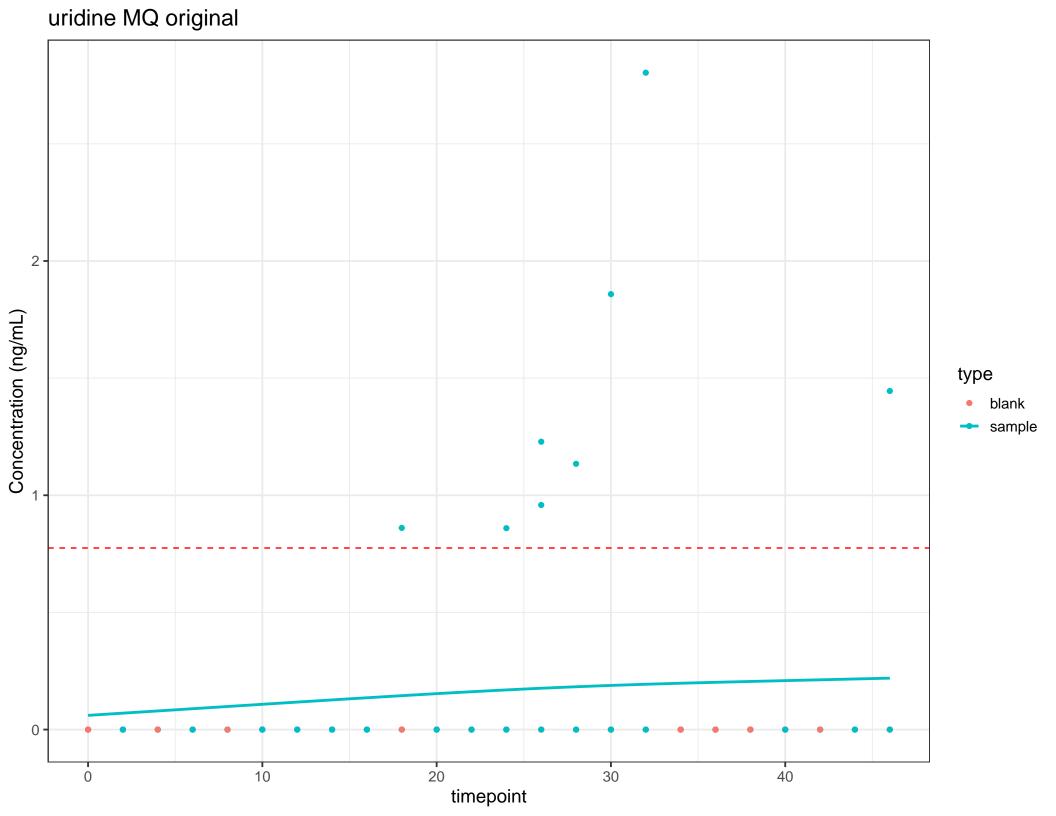
timepoint

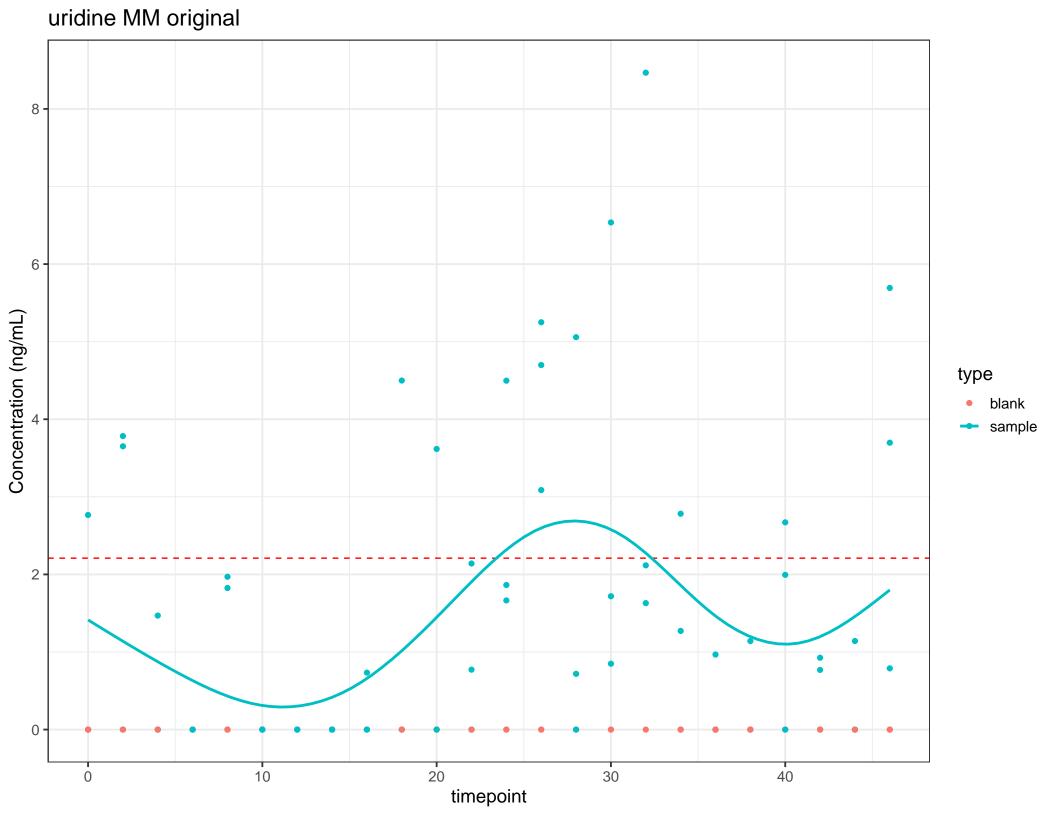


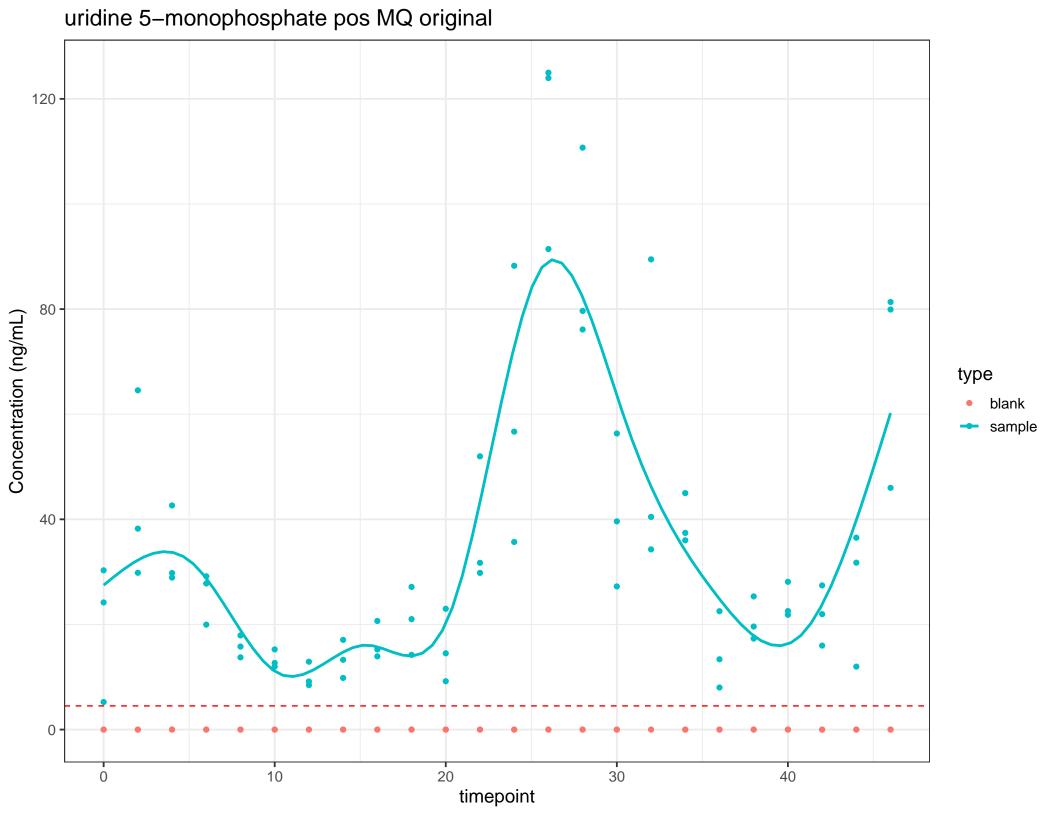


uracil MQ original 12 **-**9 -Concentration (ng/mL) type blank sample 3 -0 -10 20 30 40 0 timepoint

uric acid MQ original • 50000 -40000 -Concentration (ng/mL) type blank sample 10000 0 10 20 30 40 0 timepoint







uridine 5-monophosphate pos MM original : 900 -Concentration (ng/mL) type blank sample 300 -0

30

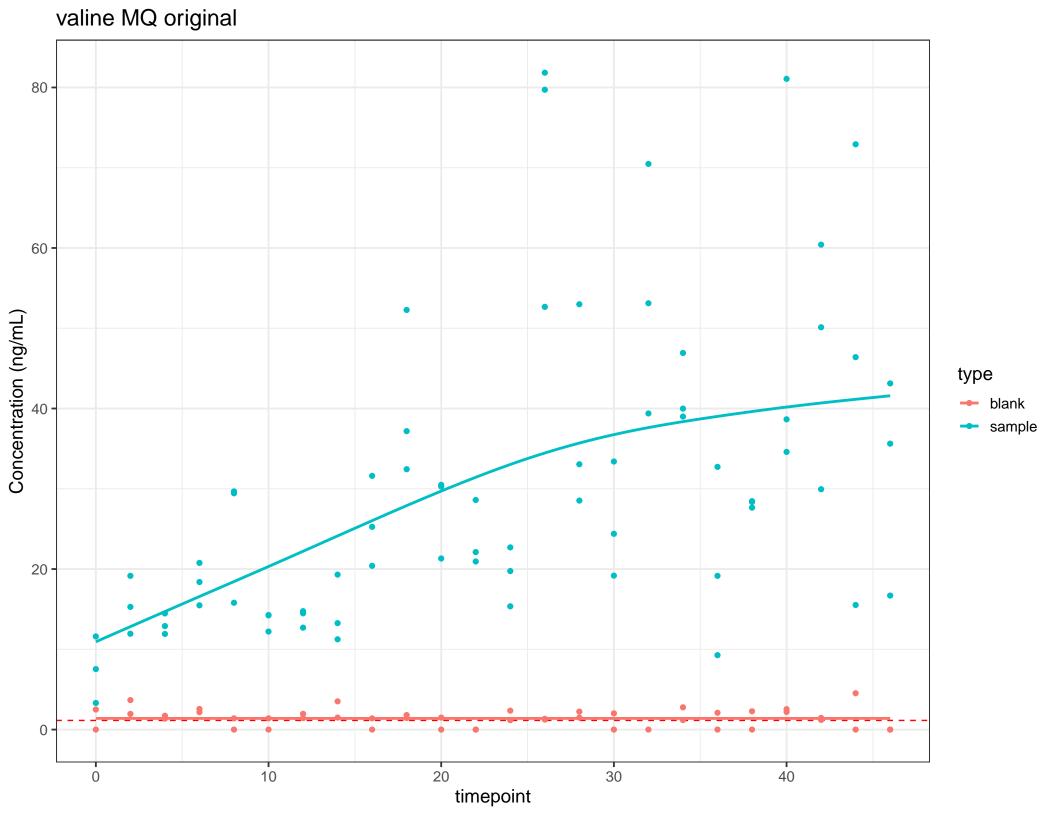
40

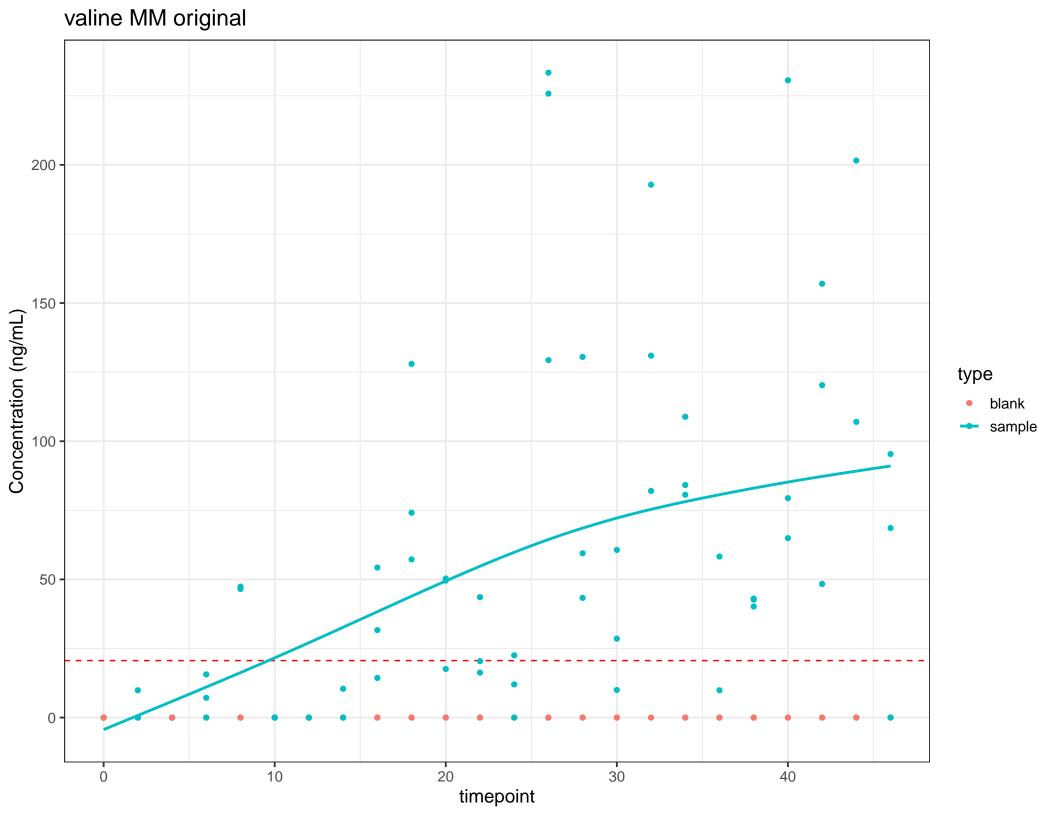
10

0

20

timepoint





xanthine neg MQ original 1.00 0.75 -Concentration (ng/mL) type blank sample 0.25 0.00 20 10 30 40 0 timepoint

xanthine neg MM original • 1.0 -Concentration (ng/mL) type blank sample 0.0 10 20 30 40 0 timepoint

xanthosine neg MQ original 2.5 2.0 Concentration (ng/mL) type blank sample 0.5 0.0 10 40 0 20 30 timepoint

xanthosine neg MM original 2 Concentration (ng/mL) type blank sample 0 40 20 10 30 0 timepoint