

Acquisition Method Info

Method Name: BileAcids.m
 Method Path: C:\Masshunter\methods\User\Cristina\BileAcids.m
 Method Description: BA and AlloBA 2019-05-07 CGC

Device List
 HiP Sampler
 Binary Pump
 Column Comp.
 DAD
 QQQ

MS QQQ Mass Spectrometer

Ion Source: AJS ESI Tune File: C:\Masshunter\Tune\QQQ\G6490A\tunes.TUNE.XML
 Stop Mode: No Limit/As Pump Stop Time (min): 1
 Time Filter: On Time Filter Width (min): 0.07

Time Segments

Index	Start Time (min)	Scan Type	Ion Mode	Div Valve	Delta EMV	Store
1	0	MS2 Scan	ESI+Agilent Jet Stream	To Waste	0	No
2	2	MRM	ESI+Agilent Jet Stream	To MS	300	Yes
3	4.5	MRM	ESI+Agilent Jet Stream	To MS	300	Yes
4	6	MRM	ESI+Agilent Jet Stream	To MS	300	Yes
5	7.15	MRM	ESI+Agilent Jet Stream	To MS	300	Yes
6	9.1	MRM	ESI+Agilent Jet Stream	To MS	300	Yes
7	11	MRM	ESI+Agilent Jet Stream	To MS	300	Yes
8	12.6	MRM	ESI+Agilent Jet Stream	To MS	300	Yes
9	15	MRM	ESI+Agilent Jet Stream	To MS	300	Yes
10	18	MRM	ESI+Agilent Jet Stream	To Waste	0	No

Time Segment 1

Scan Segments

Segment Name	Start Mass	End Mass	Scan Time	Frag (V)	Cell Acc (V)	Polarity
	100	1000	500	380	5	Positive

Scan Parameters

Step Size (amu): 0.1
 Data Stg: Profile
 Threshold: 0

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	290	290
Gas Flow (l/min)	15	15
Nebulizer (psi)	20	20
SheathGasHeater	250	250
SheathGasFlow	11	11
Capillary (V)	3000	0
VCharging	2000	0

Time Segment 2

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
T_alpha_M CA	No	480.3	Wide / Unit (6490)	480.3	Wide / Unit (6490)	20	380	0	5	Positive
T_alpha_M CA	No	480.3	Wide / Unit (6490)	462.1	Wide / Unit (6490)	80	380	8	5	Positive
T_alpha_M CA	No	480.3	Wide / Unit (6490)	126.1	Wide / Unit (6490)	80	380	24	5	Positive
T_beta_M CA	No	480.3	Wide / Unit (6490)	126	Wide / Unit (6490)	80	380	24	5	Positive
T_beta_M CA	No	480.2	Wide / Unit (6490)	462.2	Wide / Unit (6490)	80	380	8	5	Positive
T_omega_ MCA	No	480.2	Wide / Unit (6490)	462.1	Wide / Unit (6490)	80	380	8	5	Positive
T_omega_ MCA	No	480.2	Wide / Unit (6490)	126	Wide / Unit (6490)	80	380	24	5	Positive

Scan Parameters

Data Stg Centroid	Threshold 0
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Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	290	290
Gas Flow (l/min)	15	15
Nebulizer (psi)	20	20
SheathGasHeater	250	250
SheathGasFlow	11	11
Capillary (V)	4000	0
VCharging	2000	0

Ion Funnel Parameters

Pos High Pressure RF	120	Neg High Pressure RF	0
Pos Low Pressure RF	40	Neg Low Pressure RF	0

Time Segment 3

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
Tauro_7ox oLCA	No	480.3	Wide / Unit (6490)	480.3	Wide / Unit (6490)	20	380	0	5	Positive
Tauro_7ox oLCA	No	480.3	Wide / Unit (6490)	462.1	Wide / Unit (6490)	60	380	8	5	Positive
TCA	No	480.3	Wide / Unit (6490)	461.9	Wide / Unit (6490)	60	380	8	5	Positive
Tauro_7ox oLCA	No	480.3	Wide / Unit (6490)	126	Wide / Unit (6490)	60	380	24	5	Positive
TUDCA	No	464.2	Wide / Unit (6490)	464.2	Wide / Unit (6490)	15	380	0	5	Positive
TUDCA	No	464.2	Wide / Unit (6490)	126	Wide / Unit (6490)	60	380	28	5	Positive
TCA	No	514.2	Wide / Unit (6490)	124.2	Wide / Unit (6490)	60	380	46	5	Negative
TUDCA	No	498.2	Wide / Unit (6490)	124.2	Wide / Unit (6490)	60	380	47	5	Negative

Scan Parameters

Data Stg Centroid	Threshold 0
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Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	290	290
Gas Flow (l/min)	15	15
Nebulizer (psi)	20	20
SheathGasHeater	250	250
SheathGasFlow	11	11
Capillary (V)	4500	4500
VCharging	2000	2000

Ion Funnel Parameters

Pos High Pressure RF	140	Neg High Pressure RF	140
Pos Low Pressure RF	40	Neg Low Pressure RF	40

Time Segment 4

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
beta_MCA	No	391.3	Wide / Unit (6490)	355.2	Wide / Unit (6490)	35	380	16	5	Positive
omega_MCA	No	373.3	Wide / Unit (6490)	355.2	Wide / Unit (6490)	35	380	20	5	Positive
beta_MCA	No	373.3	Wide / Unit (6490)	355.2	Wide / Unit (6490)	35	380	8	5	Positive
alpha_MCA	No	373.3	Wide / Unit (6490)	355.1	Wide / Unit (6490)	15	380	15	5	Positive
omega_MCA	No	373.3	Wide / Unit (6490)	159.1	Wide / Unit (6490)	35	380	20	5	Positive
alpha_MCA	No	373.3	Wide / Unit (6490)	105.1	Wide / Unit (6490)	35	380	58	5	Positive
7oxoDCA	No	371.3	Wide / Unit (6490)	353.2	Wide / Unit (6490)	35	380	8	5	Positive
7oxoDCA	No	371.3	Wide / Unit (6490)	335.2	Wide / Unit (6490)	35	380	12	5	Positive
d4GCA	Yes	468.2	Wide / Unit (6490)	74	Wide / Unit (6490)	35	380	49	5	Negative
GCA	No	464.2	Wide / Unit (6490)	464.2	Wide / Unit (6490)	15	380	0	5	Negative
GCA	No	464.2	Wide / Unit (6490)	74	Wide / Unit (6490)	35	380	37	5	Negative
d4GUDCA	Yes	452.2	Wide / Unit (6490)	74	Wide / Unit (6490)	35	380	37	5	Negative
GUDCA	No	448.2	Wide / Unit (6490)	404.1	Wide / Unit (6490)	35	380	40	5	Negative
GUDCA	No	448.2	Wide / Unit (6490)	386.1	Wide / Unit (6490)	35	380	35	5	Negative
GUDCA	No	448.2	Wide / Unit (6490)	74	Wide / Unit (6490)	35	380	37	5	Negative

Scan Parameters

Data Stg	Threshold
Centroid	0

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	290	290
Gas Flow (l/min)	15	15
Nebulizer (psi)	40	40
SheathGasHeater	250	250
SheathGasFlow	11	11
Capillary (V)	5000	5000
VCharging	2000	2000

Ion Funnel Parameters

Pos High Pressure RF	100	Neg High Pressure RF	100
Pos Low Pressure RF	60	Neg Low Pressure RF	60

Time Segment 5

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
TDCA	No	464.2	Wide / Unit (6490)	464.2	Wide / Unit (6490)	20	380	0	5	Positive
TCDCA	No	464.2	Wide / Unit (6490)	464.1	Wide / Unit (6490)	20	380	0	5	Positive
TDCA	No	464.2	Wide / Unit (6490)	126.1	Wide / Unit (6490)	50	380	28	5	Positive
TCDCA	No	464.2	Wide / Unit (6490)	126	Wide / Unit (6490)	50	380	28	5	Positive
gamma_M CA	No	391.3	Wide / Unit (6490)	355.2	Wide / Unit (6490)	50	380	16	5	Positive
gamma_M CA	No	373.3	Wide / Unit (6490)	355	Wide / Unit (6490)	50	380	10	5	Positive
gamma_M CA	No	373.3	Wide / Unit (6490)	304.8	Wide / Unit (6490)	50	380	4	5	Positive
TCDCA	No	498.2	Wide / Unit (6490)	124.2	Wide / Unit (6490)	50	380	45	5	Negative
TDCA	No	498.2	Wide / Unit (6490)	124.1	Wide / Unit (6490)	50	380	45	5	Negative
G7oxoLCA	No	446.2	Wide / Unit (6490)	330.1	Wide / Unit (6490)	50	380	49	5	Negative
G7oxoLCA	No	446.2	Wide / Unit (6490)	74	Wide / Unit (6490)	50	380	37	5	Negative

Scan Parameters

Data Stg Threshold
Centroid 0

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	290	290
Gas Flow (l/min)	15	15
Nebulizer (psi)	20	20
SheathGasHeater	250	250
SheathGasFlow	11	11
Capillary (V)	4000	4000
VCharging	2000	2000

Ion Funnel Parameters

Pos High Pressure RF	120	Neg High Pressure RF	120
Pos Low Pressure RF	60	Neg Low Pressure RF	60

Time Segment 6

Scan Segments

Cpd Name	ISTD?	Prec Ion MS1 Res	Prod Ion MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
d4CA	Yes	377.3 Wide / Unit (6490)	359.2 Wide / Unit (6490)	30	380	8	5	Positive
CA	No	373.3 Wide / Unit (6490)	355.2 Wide / Unit (6490)	30	380	8	5	Positive
Allo3a7a12 a	No	373.3 Wide / Unit (6490)	355.2 Wide / Unit (6490)	30	380	12	5	Positive
CA	No	373.3 Wide / Unit (6490)	159.1 Wide / Unit (6490)	30	380	20	5	Positive
d4UDCA	Yes	361.2 Wide / Unit (6490)	95.1 Wide / Unit (6490)	30	380	40	5	Positive
HDCA	No	357.3 Wide / Unit (6490)	104.8 Wide / Unit (6490)	30	380	50	5	Positive
HDCA	No	357.2 Wide / Unit (6490)	95.1 Wide / Unit (6490)	30	380	40	5	Positive
UDCA	No	357.2 Wide / Unit (6490)	95 Wide / Unit (6490)	30	380	35	5	Positive
UDCA	No	357.2 Wide / Unit (6490)	80.9 Wide / Unit (6490)	30	380	50	5	Positive
d4GCDCA	Yes	452.2 Wide / Unit (6490)	74 Wide / Unit (6490)	30	380	37	5	Negative
GCDCA	No	448.2 Wide / Unit (6490)	404.1 Wide / Unit (6490)	30	380	32	5	Negative
GCDCA	No	448.2 Wide / Unit (6490)	74 Wide / Unit (6490)	30	380	30	5	Negative
Allo3a7a12 a	No	407.3 Wide / Unit (6490)	361.2 Wide / Unit (6490)	30	380	36	5	Negative
Allo3b12a	No	391.3 Wide / Unit (6490)	345.1 Wide / Unit (6490)	30	380	40	5	Negative
Allo3b12a	No	391.3 Wide / Unit (6490)	342.8 Wide / Unit (6490)	30	380	40	5	Negative

Scan Parameters

Data Stg Threshold
Centroid 0

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	290	290
Gas Flow (l/min)	15	15
Nebulizer (psi)	30	30
SheathGasHeater	250	250
SheathGasFlow	11	11
Capillary (V)	4500	4500
VCharging	2000	2000

Ion Funnel Parameters

Pos High Pressure RF	100	Neg High Pressure RF	100
Pos Low Pressure RF	80	Neg Low Pressure RF	80

Time Segment 7

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
6.7diketoL CA	No	405.3	Wide / Unit (6490)	351.1	Wide / Unit (6490)	35	380	12	5	Positive
6.7diketoL CA	No	405.3	Wide / Unit (6490)	333.1	Wide / Unit (6490)	35	380	16	5	Positive
12oxoLCA	No	391.3	Wide / Unit (6490)	309.3	Wide / Unit (6490)	35	380	20	5	Positive
12oxoLCA	No	391.3	Wide / Unit (6490)	145.1	Wide / Unit (6490)	35	380	32	5	Positive
7oxoLCA	No	373.3	Wide / Unit (6490)	355.1	Wide / Unit (6490)	35	380	8	5	Positive
7oxoLCA	No	373.3	Wide / Unit (6490)	335.1	Wide / Unit (6490)	35	380	12	5	Positive
7oxoLCA	No	373.3	Wide / Unit (6490)	105.1	Wide / Unit (6490)	35	380	58	5	Positive
GDCA	No	448.2	Wide / Unit (6490)	404.1	Wide / Unit (6490)	35	380	32	5	Negative
GDCA	No	448.2	Wide / Unit (6490)	386.1	Wide / Unit (6490)	35	380	35	5	Negative
GDCA	No	448.2	Wide / Unit (6490)	74	Wide / Unit (6490)	35	380	30	5	Negative
Allo3a12b	No	391.3	Wide / Unit (6490)	345.1	Wide / Unit (6490)	35	380	36	5	Negative
Allo3a12b	No	391.3	Wide / Unit (6490)	327.3	Wide / Unit (6490)	35	380	40	5	Negative

Scan Parameters

Data Stg Threshold
Centroid 0

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	290	290
Gas Flow (l/min)	15	15
Nebulizer (psi)	30	30
SheathGasHeater	250	250
SheathGasFlow	11	11
Capillary (V)	4500	4500
VCharging	2000	2000

Ion Funnel Parameters

Pos High Pressure RF	100	Neg High Pressure RF	100
Pos Low Pressure RF	60	Neg Low Pressure RF	60

Time Segment 8

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
d4CDCA	Yes	361.3	Wide / Unit (6490)	95.2	Wide / Unit (6490)	40	380	40	5	Positive
d4DCA	Yes	361.3	Wide / Unit (6490)	95.1	Wide / Unit (6490)	40	380	40	5	Positive
CDCA	No	357.2	Wide / Unit (6490)	104.9	Wide / Unit (6490)	40	380	50	5	Positive
DCA	No	357.2	Wide / Unit (6490)	104.8	Wide / Unit (6490)	40	380	50	5	Positive
DCA	No	357.2	Wide / Unit (6490)	95.1	Wide / Unit (6490)	40	380	40	5	Positive
CDCA	No	357.2	Wide / Unit (6490)	81.1	Wide / Unit (6490)	40	380	48	5	Positive
TLCA	No	482.2	Wide / Unit (6490)	124.2	Wide / Unit (6490)	40	380	45	5	Negative
TLCA	No	482.2	Wide / Unit (6490)	107.2	Wide / Unit (6490)	40	380	50	5	Negative
TLCA	No	482.2	Wide / Unit (6490)	80	Wide / Unit (6490)	40	380	56	5	Negative
GLCA	No	432.2	Wide / Unit (6490)	388.1	Wide / Unit (6490)	40	380	37	5	Negative
GLCA	No	432.2	Wide / Unit (6490)	74	Wide / Unit (6490)	40	380	41	5	Negative
Allo3a12a	No	391.3	Wide / Unit (6490)	345	Wide / Unit (6490)	40	380	36	5	Negative
Allo3a12a	No	391.3	Wide / Unit (6490)	327.1	Wide / Unit (6490)	40	380	40	5	Negative

Scan Parameters

Data Stg	Threshold
Centroid	0

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	290	290
Gas Flow (l/min)	15	15
Nebulizer (psi)	20	20
SheathGasHeater	250	250
SheathGasFlow	11	11
Capillary (V)	4000	4000
VCharging	2000	2000

Ion Funnel Parameters

Pos High Pressure RF	120	Neg High Pressure RF	120
Pos Low Pressure RF	60	Neg Low Pressure RF	60

Time Segment 9

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
Allo3aLCA	No	377.3	Wide / Unit (6490)	295.1	Wide / Unit (6490)	35	380	16	5	Positive
Allo3b	No	377.3	Wide / Unit (6490)	295	Wide / Unit (6490)	50	380	12	5	Positive
d4LCA	Yes	363.3	Wide / Unit (6490)	139.1	Wide / Unit (6490)	50	380	24	5	Positive
d4LCA	Yes	363.3	Wide / Unit (6490)	99.1	Wide / Unit (6490)	50	380	32	5	Positive
LCA	No	359.3	Wide / Unit (6490)	135.1	Wide / Unit (6490)	50	380	24	5	Positive
Allo3aLCA	No	359.3	Wide / Unit (6490)	135	Wide / Unit (6490)	35	380	25	5	Positive
LCA	No	359.3	Wide / Unit (6490)	95.1	Wide / Unit (6490)	50	380	32	5	Positive
Allo3b	No	359.2	Wide / Unit (6490)	135.1	Wide / Unit (6490)	50	380	25	5	Positive
3oxoLCA	No	357.3	Wide / Unit (6490)	104.8	Wide / Unit (6490)	50	380	60	5	Positive
3oxoLCA	No	357.3	Wide / Unit (6490)	95	Wide / Unit (6490)	50	380	40	5	Positive
3oxoLCA	No	357.3	Wide / Unit (6490)	80.9	Wide / Unit (6490)	50	380	48	5	Positive

Scan Parameters

Data Stg	Threshold
Centroid	0

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	290	290
Gas Flow (l/min)	15	15
Nebulizer (psi)	30	30
SheathGasHeater	250	250
SheathGasFlow	11	11
Capillary (V)	5500	0
VCharging	2000	0

Ion Funnel Parameters

Pos High Pressure RF	120	Neg High Pressure RF	120
Pos Low Pressure RF	80	Neg Low Pressure RF	80

Time Segment 10

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
Compound 1	No	350	Wide / Unit (6490)	200	Wide / Unit (6490)	200	380	0	5	Positive

Scan Parameters

Data Stg	Threshold
Centroid	0

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	290	290
Gas Flow (l/min)	15	15
Nebulizer (psi)	20	20
SheathGasHeater	250	250
SheathGasFlow	11	11
Capillary (V)	3000	3000
VCharging	2000	1500

Ion Funnel Parameters

Pos High Pressure RF	200	Neg High Pressure RF	90
Pos Low Pressure RF	110	Neg Low Pressure RF	60

Chromatograms

Chrom Type	Label	Offset	Y-Range
TIC	TIC	10	10000000

Instrument Curves

Actual
 VCap
 Capillary Current
 Chamber Current
 Gas Flow
 Gas Temp
 High Vac
 MS1 Heater
 MS2 Heater
 NebulizerPressure
 Pump1Current
 Pump2Current
 VacuumPressure1
 Sheath Gas Flow
 (l/min)
 Sheath Gas Temp (°
 C)
 TurboSpeed1
 TurboSpeed2

Name: HiP Sampler **Model:** G4226A

Auxiliary

Draw Speed	200.0 µL/min
Eject Speed	200.0 µL/min
Draw Position Offset	0.0 mm
Wait Time After Drawing	0.0 s
Sample Flush Out Factor	5.0
Vial/Well bottom sensing	No

Injection

Injection Mode	Injection with needle wash
Injection Volume	5.00 µL
Needle Wash	
Needle Wash Location	Flush Port
Wash Time	10.0 s

High throughput

Automatic Delay Volume Reduction	No
Overlapped Injection	
Enable Overlapped Injection	No

Valve Switching

Valve Movements	0
Valve Switch Time 1	
Switch Time 1 Enabled	No
Valve Switch Time 2	
Switch Time 2 Enabled	No
Valve Switch Time 3	
Switch Time 3 Enabled	No
Valve Switch Time 4	
Switch Time 4 Enabled	No

Stop Time

Stoptime Mode	As pump/No limit
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Post Time

Posttime Mode	Off
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Name: Binary Pump Model: G4220A

Flow 0.500 mL/min
 Use Solvent Types Yes
 Stroke Mode Synchronized
 Low Pressure Limit 0.00 bar
 High Pressure Limit 1000.00 bar
 Max. Flow Ramp Up 10.000 mL/min²
 Max. Flow Ramp Down 100.000 mL/min²
 Expected Mixer No check

Stroke A

Automatic Stroke Calculation A Yes

Stop Time

Stoptime Mode Time set
 Stoptime 22.00 min

Post Time

Posttime Mode Time set
 Posttime 2.00 min

Solvent Composition

	Channel	Ch. 1 Solv.	Name 1	Ch2 Solv.	Name 2	Selected	Used	Percent
1	A	5.0 % ACN in Water V.02	Water	100.0 % Water V.03		Ch. 1	Yes	75.00 %
2	B	95.0 % ACN in Water V.02	ACN	100.0 % Acetonitrile V.03		Ch. 1	Yes	25.00 %

Timetable

	Time	A	B	Flow	Pressure
1	3.00 min	75.00 %	25.00 %	--- mL/min	--- bar
2	3.10 min	65.00 %	35.00 %	--- mL/min	--- bar
3	9.00 min	62.00 %	38.00 %	--- mL/min	--- bar
4	15.00 min	35.00 %	65.00 %	--- mL/min	--- bar
5	18.00 min	35.00 %	65.00 %	--- mL/min	--- bar
6	20.00 min	0.00 %	100.00 %	--- mL/min	--- bar
7	22.00 min	0.00 %	100.00 %	--- mL/min	--- bar

Name: Column Comp. Model: G1316C

Valve Position Position 1 (Port 1 -> 2)
 Ready when front door open Yes

Left Temperature Control

Temperature Control Mode Temperature Set
 Temperature 55.0 °C

Enable Analysis Left Temperature

Enable Analysis Left Temperature On Yes
 Enable Analysis Left Temperature Value 0.8 °C

Right Temperature Control

Right temperature Control Mode Combined

Enable Analysis Right Temperature

Enable Analysis Right Temperature On Yes
 Enable Analysis Right Temperature Value 0.8 °C

Stop Time

Stoptime Mode As pump/injector

Post Time

Posttime Mode Off

Timetable

Name: DAD

Model: G4212A

Peakwidth < 0.0016 min (0.016 s response time) (160 Hz)

Slit 4 nm

UV Lamp Required No

Analog Output

Analog Zero Offset 5 %

Analog Attenuation 1000 mAU

Signals

Prepare Mode

Margin for negative Absorbance 100 mAU

Autobalance

Autobalance Prerun No

Autobalance Postrun No

Spectrum

Spectrum Store None

Stoptime

Stoptime Mode As pump/injector

Posttime

Posttime Mode Off

Timetable

Signals

Signal table

	Acquire	Signal
1	No	Signal A
2	No	Signal B
3	No	Signal C
4	No	Signal D
5	No	Signal E
6	No	Signal F
7	No	Signal G
8	No	Signal H