

Analysis Report

Prepared For: _____

Prepared By: _____

Analytical method

Mobile Phase A: 0.1% Formic Acid in Water

Mobile Phase B: 0.1% Formic Acid in Acetonitrile

Testing Site and Date

Testing Site: _____ Testing Date: 11/05/14

Analyte

Name: Clomiphene citrate (CLM).

Condition while received: Well

Storage Condition after received: Room Temperature

There was no discrepancy when sample received.

Analytical Instrument

Equipment: High-Performance Liquid Chromatography with Mass Spectrometric
(MS/MS) Detection

ID Number: HPLC-023/MSMS-017

Software: MassLynx v.4.1

Result (original mass-spectrogram see attachment):

The sample has same Mass Transition with the standard.

The compound in sample is Clomiphene citrate.

Assay Percent%: 97.0%

Analyst: _____

Date: 11/06/14

Auditor: _____

Date: 11/06/14

Clomiphene citrate (CLM)

Molecular weight:598.08

HPLC-023 Condition

Solvent A: 0.1% Formic Acid in Water

Solvent B: 0.1% Formic Acid in Acetonitrile

Mobile Phase: Solvent A:Solvent B (40:60, v/v)

Flow Rate (mL/min): 0.300

MSMS-017 Condition:

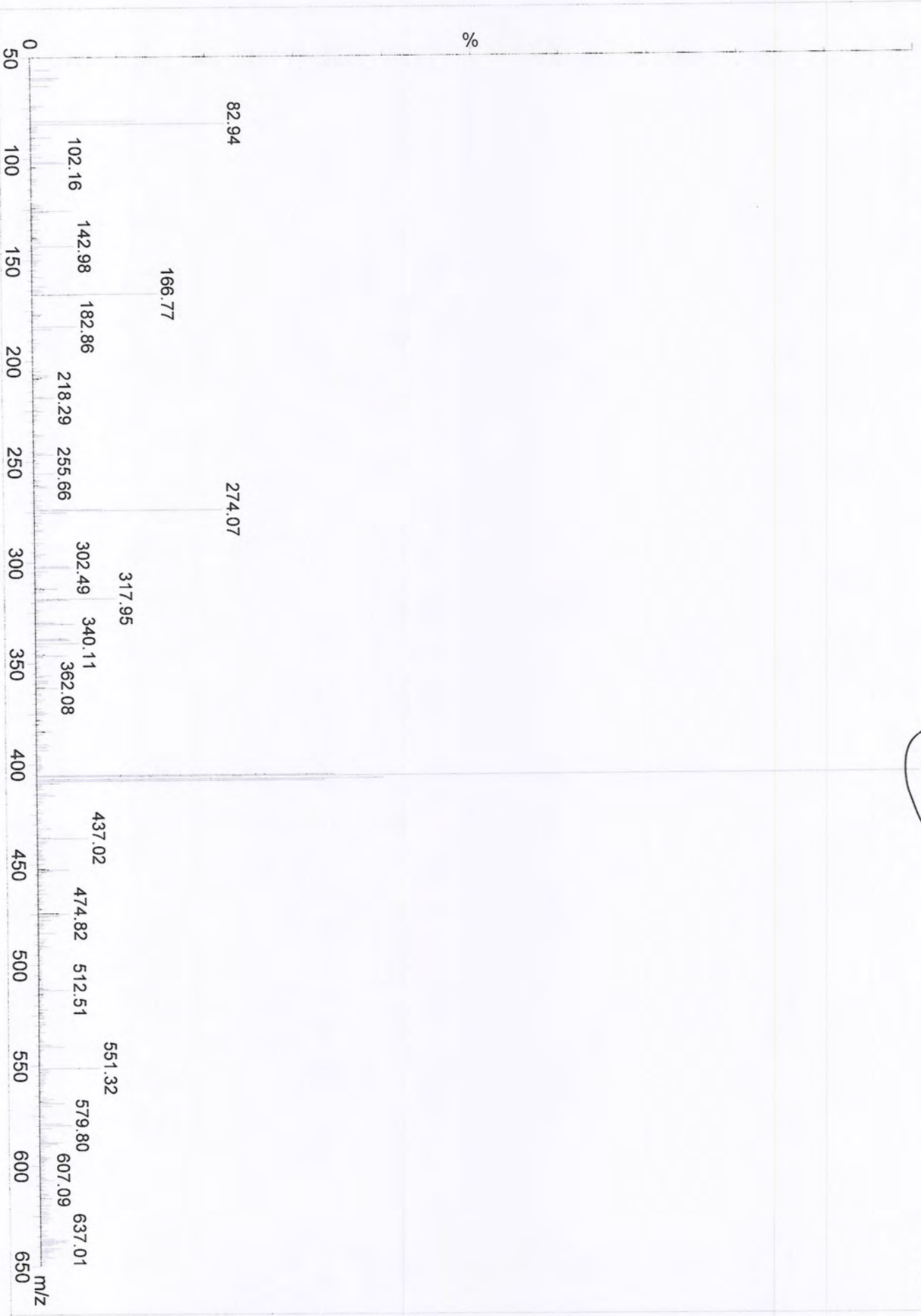
Cone (V)	10
Collision (eV)	20
Dwell Time (secs)	0.3
Delay Time (secs)	0.00
Ionization Mode	ES+
Source Temperature (°C)	130
Desolvation Temperature (°C)	350
Cone Gas (L/hr)	84
Desolvation Gas (L/hr)	805
Capillary (kV)	0.5
Hex 1 (V)	30
Aperture (V)	0.5
Hex 2 (V)	1.0
LM/HM Resolution 1	12.0
Ion Energy 1 (V)	0.5
LM/HM Resolution 2	12.0
Ion Energy 2 (V)	1.0
Entrance	-1.0
Exit	1.0
Multiplier (V)	650

	Standard	Sample
Mass Transition	406.15>100.02	406.28>100.02

clomiphene citrate Standard Parent
CLM 11032014 001 1 (0.044)

406.15

Scan ES+
8.09e6



clomiphene citrate Standard Dau 20

CLM 11032014.002 1 (0.044)

100.02

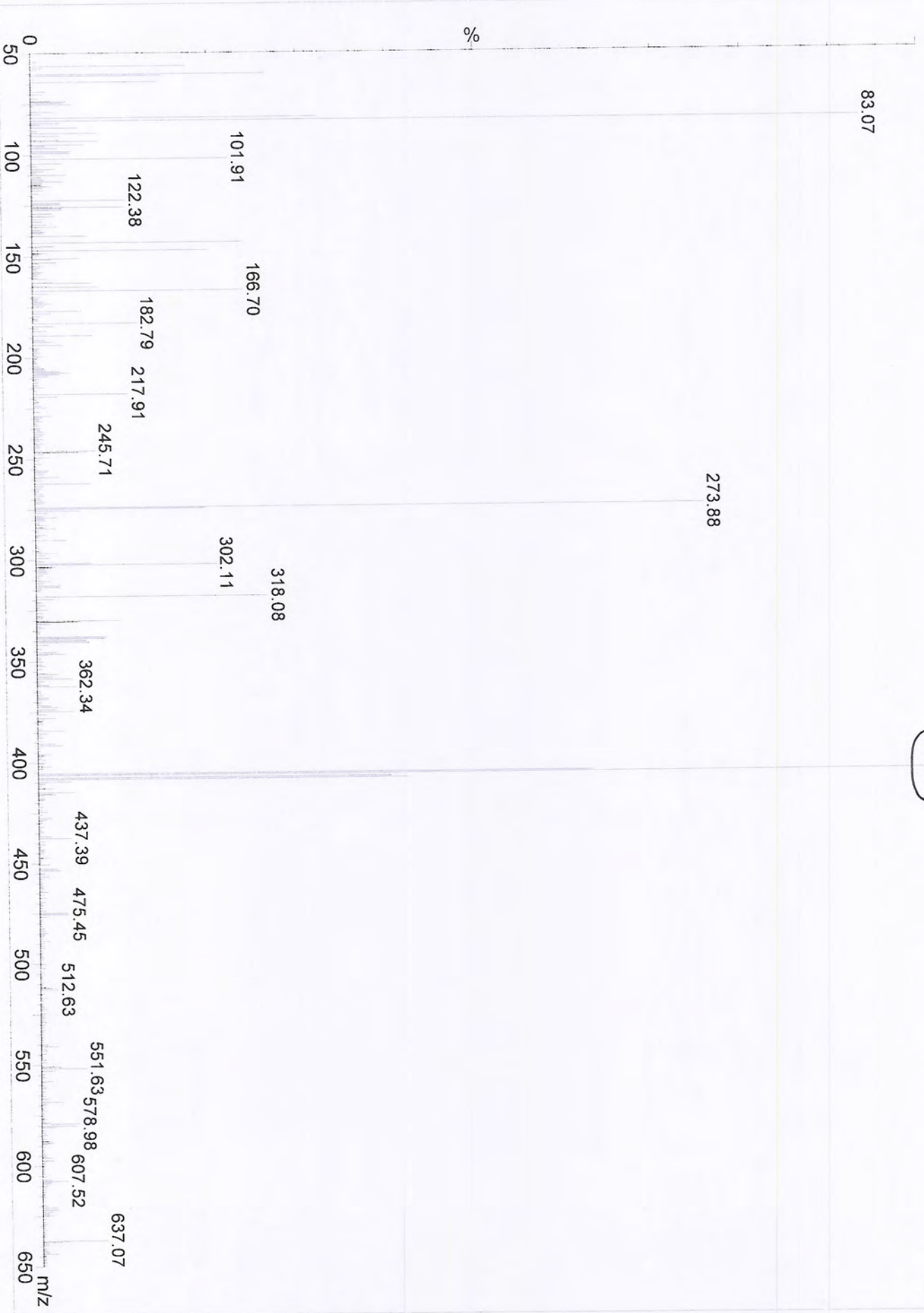
Daughters of 406ES+
3.79e6



clomiphene citrate sample Parent
CLM 11032014 01 1 (0.044)

406.28

Scan ES+
1.77e7



clomiphene citrate sample Dau 20

CLM 11032014.02.1 (0.044)

100.02

Daughters of 406ES+
3.78e5



Quantify Compound Summary Report MassLynx 4.1

Dataset: [REDACTED]
Signature: At Thursday, November 06, 2014 13:48:39 China Standard Time
By [REDACTED]
Reason Saving the TargetLynx
Printed: At Thursday, November 06, 2014 13:49:17 China Standard Time
By [REDACTED]

Method: [REDACTED] 06 Nov 2014 13:47:57

Calibration: 06 Nov 2014 13:48:27

Compound name: CLM

Correlation coefficient: $r = 0.999878$, $r^2 = 0.999755$

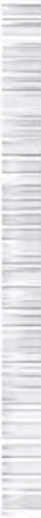

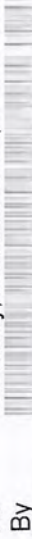
Calibration curve: $0.905914 * x + 8.19459$


Response type: External Std, Area

Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: Ln

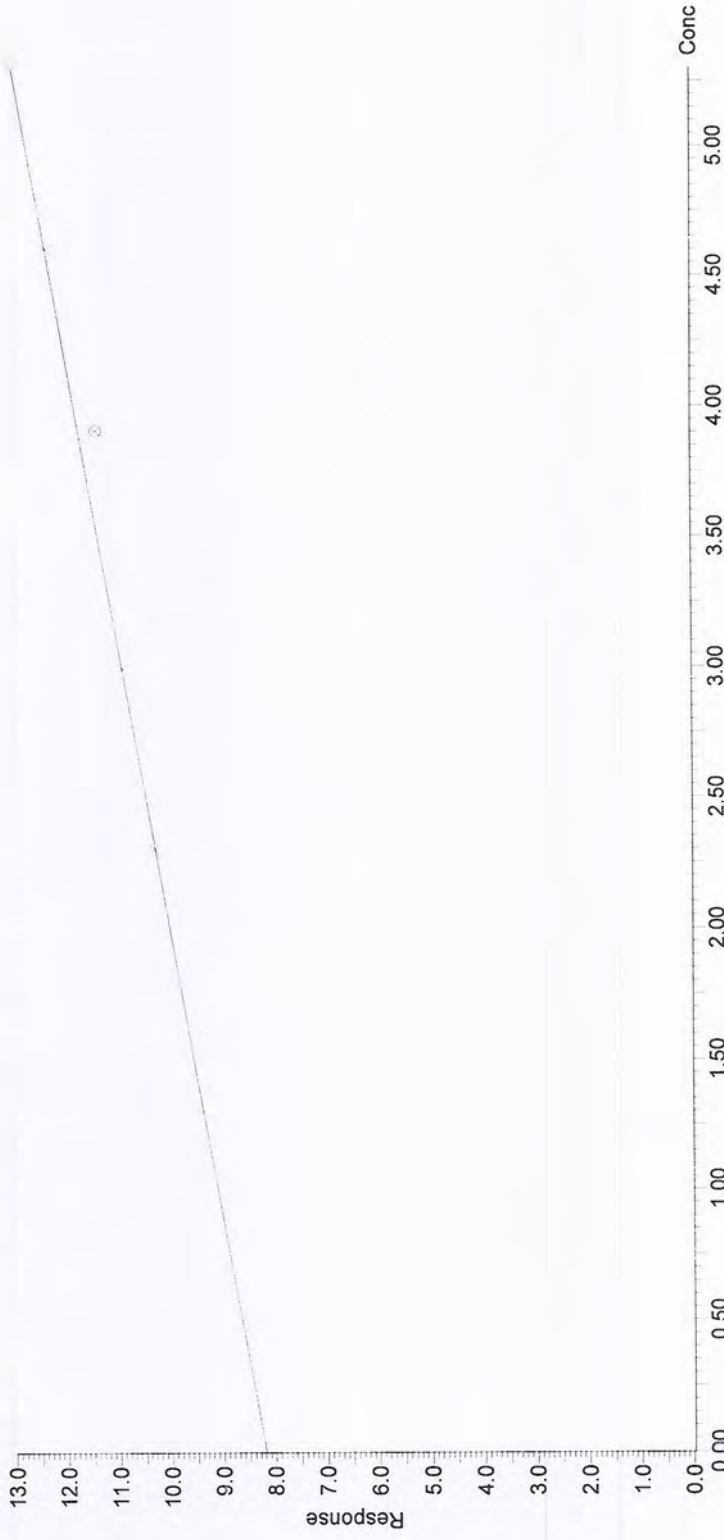
#	Sample Text	ID	Type	Area	Conc.	%Dev	Factor1	RT	Primary Flags	Response
1	CLM Std 10 ng/mL	W1	Standard	29652	10.2	1.87	1.0	2.70	bb	29651.643
2	CLM Std 20 ng/mL	W2	Standard	53743	19.6	-1.80	1.0	2.69	bb	53743.359
3	CLM Std 50.0 ng/mL	W3	Standard	88979	34.3	-31.5	1.0	2.66	bbX	88979.414
4	CLM Std 100 ng/mL	W4	Standard	230701	98.1	-1.92	1.0	2.69	bb	230701.438
5	CLM Std 200 ng/mL	W5	Standard	447639	204	1.93	1.0	2.68	bb	447639.250
6	CLM 50 ng/mL		Analyte	128227	51.3		1.0	2.68	bb	128227.141
7	CLM 50 ng/mL		Analyte	115905	45.9		1.0	2.67	bb	115905.414
8	CLM 50 ng/mL		Analyte	121538	48.3		1.0	2.68	bb	121537.773

Quantify Calibration Report MassLynx 4.1

Dataset: 
Signature: At Thursday, November 06, 2014 13:48:39 China Standard Time
By 
Reason Saving the TargetLynx
Printed: At Thursday, November 06, 2014 13:49:17 China Standard Time
By 

Method:  06 Nov 2014 13:47:57
Calibration: 06 Nov 2014 13:48:27

Compound name: CLM
Correlation coefficient: $r = 0.999878$, $r^2 = 0.999755$
Calibration curve: $0.905914 * x + 8.19459$
Response type: External Std, Area
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: Ln



Dataset: [REDACTED]
Signature: At Thursday, November 06, 2014 13:48:39 China Standard Time
By [REDACTED]
Reason Saving the TargetLynx
Printed: At Thursday, November 06, 2014 13:49:17 China Standard Time
By [REDACTED]

Method: [REDACTED] 06 Nov 2014 13:47:57
Calibration: 06 Nov 2014 13:48:27

Name: AR56001, Date: 05-Nov-2014, Time: 15:26:38, ID: W1, Description: CLM Std 10 ng/mL



#	Name	Area	Conc.	RT.	Primary Flags
1	CLM	29652	10.2	2.70	bb

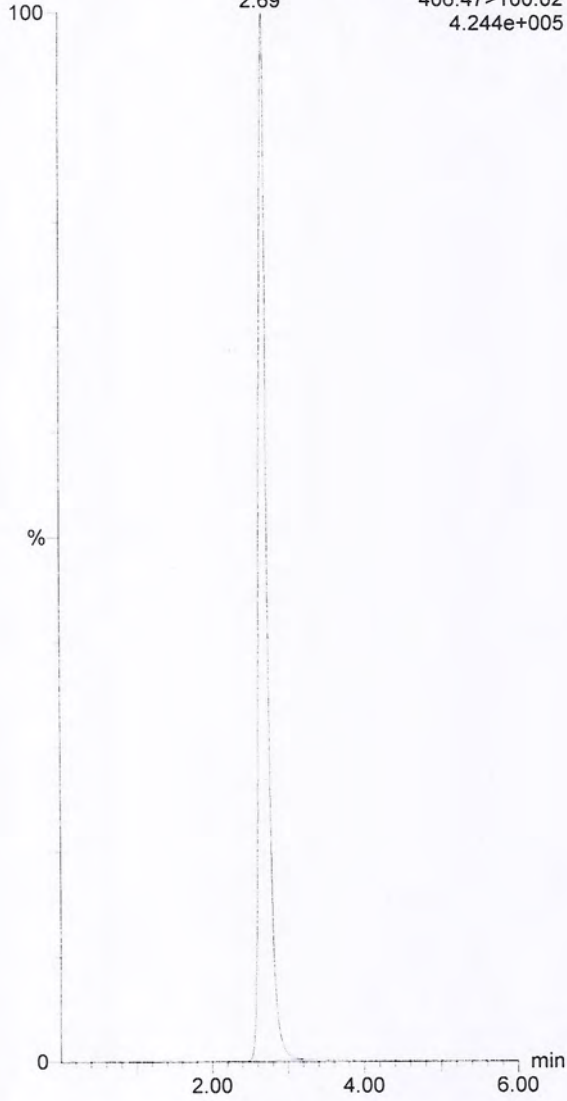
Dataset:
Signature: At Thursday, November 06, 2014 13:48:39 China Standard Time
By
Reason Saving the TargetLynx
Printed: At Thursday, November 06, 2014 13:49:17 China Standard Time
By

Name: AR56002, Date: 05-Nov-2014, Time: 15:33:53, ID: W2, Description: CLM Std 20 ng/mL

CLM

AR56002

CLM 2.69 MRM of 1 channel,ES+
406.47>100.02
4.244e+005



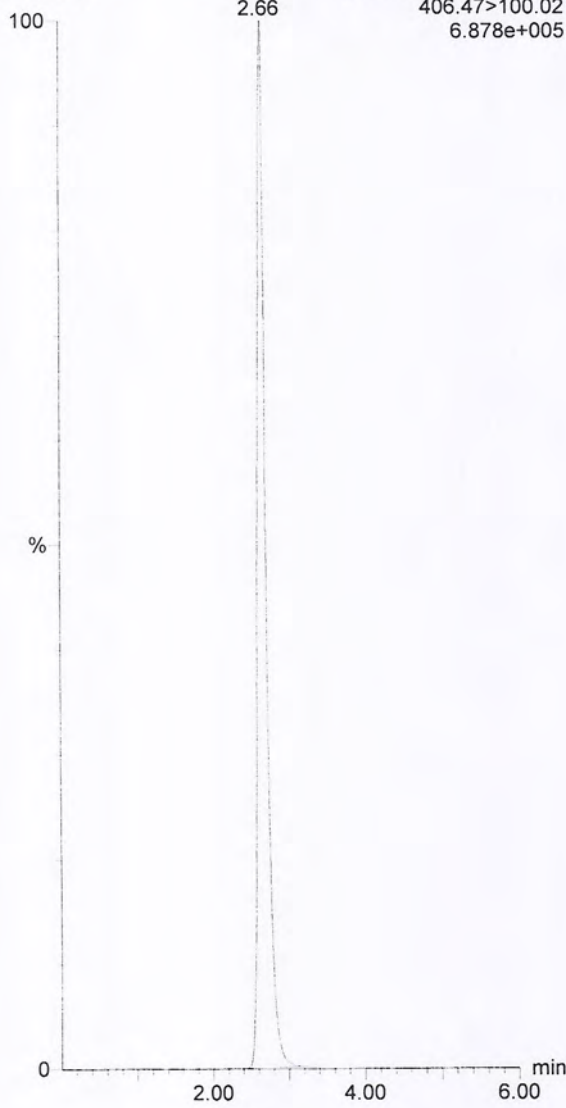
#	Name	Area	Conc.	RT.	Primary Flags
1	CLM	53743	19.6	2.69	bb

Dataset:
Signature: At Thursday, November 06, 2014 13:48:39 China Standard Time
By
Reason Saving the TargetLynx
Printed: At Thursday, November 06, 2014 13:49:17 China Standard Time
By

Name: AR56003, Date: 05-Nov-2014, Time: 15:41:08, ID: W3, Description: CLM Std 50.0 ng/mL

CLM

AR56003 CLM MRM of 1 channel, ES+
2.66 406.47>100.02
6.878e+005



#	Name	Area	Conc.	RT	Primary Flags
1	CLM	88979	34.3	2.66	bbX

Dataset:
Signature: At Thursday, November 06, 2014 13:48:39 China Standard Time
By
Reason Saving the TargetLynx
Printed: At Thursday, November 06, 2014 13:49:17 China Standard Time
By

Name: AR56004, Date: 05-Nov-2014, Time: 15:48:22, ID: W4, Description: CLM Std 100 ng/mL

CLM
AR56004
CLM 2.69
MRM of 1 channel, ES+
406.47>100.02
1.805e+006



#	Name	Area	Conc.	RT	Primary Flags
1	CLM	230701	98.1	2.69	bb

Dataset:
Signature: At Thursday, November 06, 2014 13:48:39 China Standard Time
By
Reason Saving the TargetLynx
Printed: At Thursday, November 06, 2014 13:49:17 China Standard Time
By

Name: AR56005, Date: 05-Nov-2014, Time: 15:55:37, ID: W5, Description: CLM Std 200 ng/mL

CLM
AR56005
CLM 2.68
MRM of 1 channel, ES+
406.47>100.02
3.440e+006



#	Name	Area	Conc.	RT	Primary Flags
1	CLM	447639	203.9	2.68	bb

Dataset:
Signature: At Thursday, November 06, 2014 13:48:39 China Standard Time
By
Reason Saving the TargetLynx
Printed: At Thursday, November 06, 2014 13:49:17 China Standard Time
By

Name: AR56006, Date: 05-Nov-2014, Time: 16:02:50, ID: , Description: CLM 50 ng/mL

CLM
AR56006
CLM 2.68
MRM of 1 channel, ES+
406.47>100.02
1.000e+006



#	Name	Area	Conc.	RT	Primary Flags
1	CLM	128227	51.3	2.68	bb

Dataset:
Signature: At Thursday, November 06, 2014 13:48:39 China Standard Time
By
Reason Saving the TargetLynx
Printed: At Thursday, November 06, 2014 13:49:17 China Standard Time
By

Name: AR56007, Date: 05-Nov-2014, Time: 16:10:05, ID: , Description: CLM 50 ng/mL

CLM

AR56007 CLM MRM of 1 channel, ES+
2.67 406.47>100.02
9.052e+005



#	Name	Area	Conc.	RT	Primary Flags
1	CLM	115905	45.9	2.67	bb

Dataset:
Signature: At Thursday, November 06, 2014 13:48:39 China Standard Time
By
Reason Saving the TargetLynx
Printed: At Thursday, November 06, 2014 13:49:17 China Standard Time
By

Name: AR56008, Date: 05-Nov-2014, Time: 16:17:18, ID: , Description: CLM 50 ng/mL

CLM

AR56008 CLM MRM of 1 channel, ES+
2.68 406.47>100.02
9.538e+005



#	Name	Area	Conc.	RT	Primary Flags
1	CLM	121538	48.3	2.68	bb

AR56 Clomiphene citrate

HPLC Condition

Solvent A: 0.1% Formic Acid in Water

Solvent B: 0.1% Formic Acid in Acetonitrile

Mobile Phase: Solvent A:Solvent (40:60 v/v)

Flow Rate (mL/min): 0.3

Column: Waters Atlantis dC18, 100 × 2.1 mm, 5 μm, Column

	Calculated Conc.(ng/mL)	Mean Actual Conc.(ng/mL)	Theoretical Conc.(ng/mL)	Assay Percent %
S1-1	51.3	48.5	50.0	97.0
S1-2	45.9			
S1-3	48.3			