

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: 10/09/14

Analyte

Name: Mesterolone (MES)

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 Mesterolone

Assay Percent%: 98.5

Analyst: _____

Date: 10/10/14

Auditor: _____

Date: 10/10/14

Mesterolone (MES)
Molecular weight:304.47

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 (30:70, v/v)

Flow Rate (mL/min): 0.300

MSMS-017 Condition:

Cone (V)	35
Collision (eV)	15
Dwell Time (secs)	0.3
Delay Time (secs)	0.00
Ionization Mode	ES+
Source Temperature	130
Desolvation	350
Cone Gas (L/hr)	83
Desolvation Gas (L/hr)	803
Capillary (kV)	3.5
Hex 1 (V)	35
Aperture (V)	0
Hex 2 (V)	0.5
LM/HM Resolution 1	12.0
Ion Energy 1 (V)	0.5
LM/HM Resolution 2	12.0
Ion Energy 2 (V)	1.5
Entrance	-1.0
Exit	1.0
Multiplier (V)	650

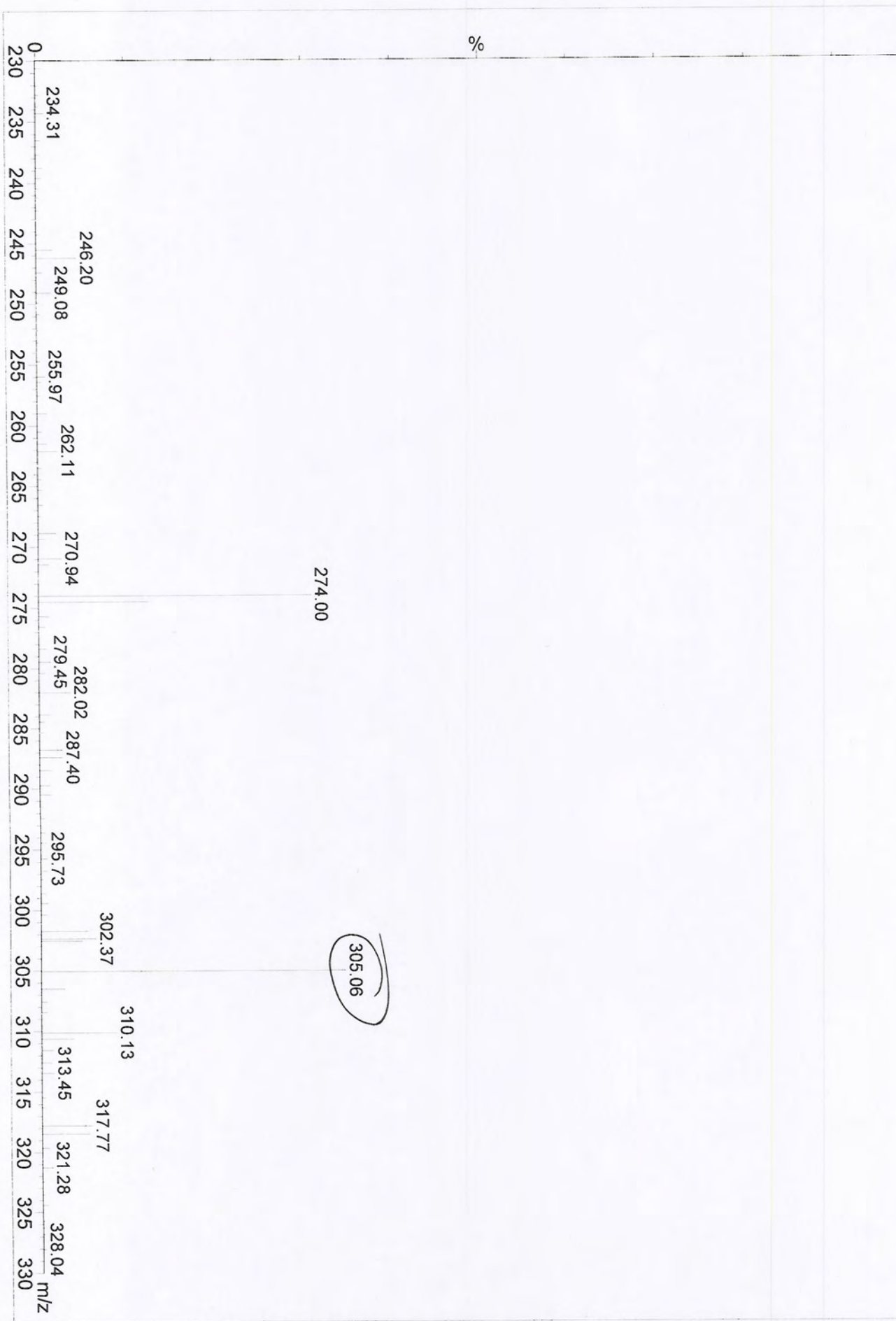
	Standard	Sample
Mass Transition	305.06>172.88	305.12>172.82

MES

MES STA 01 1 (0.044)

100

Scan ES+
4.68e7



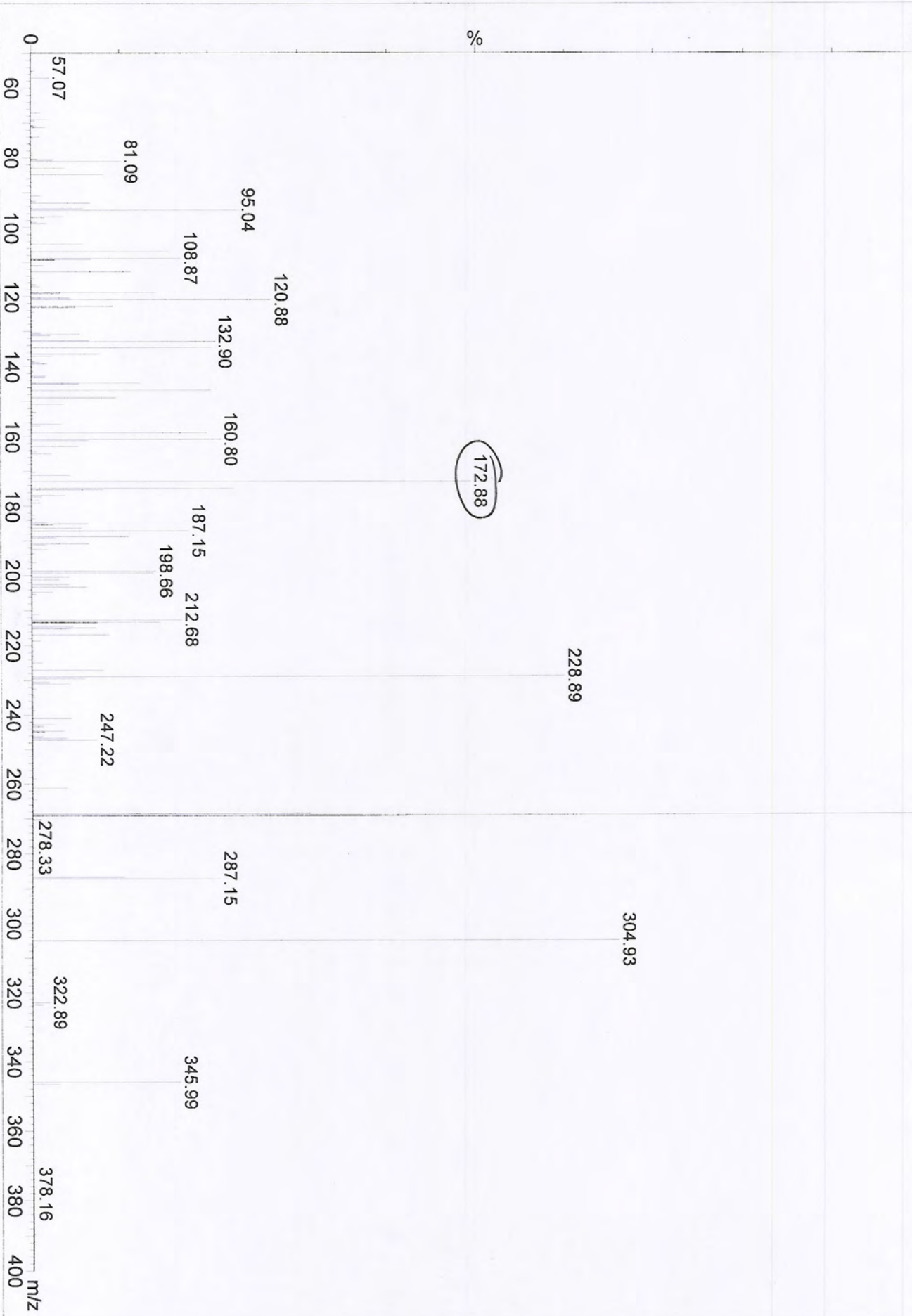
MES 15

MES STA 02 1 (0.044)

100

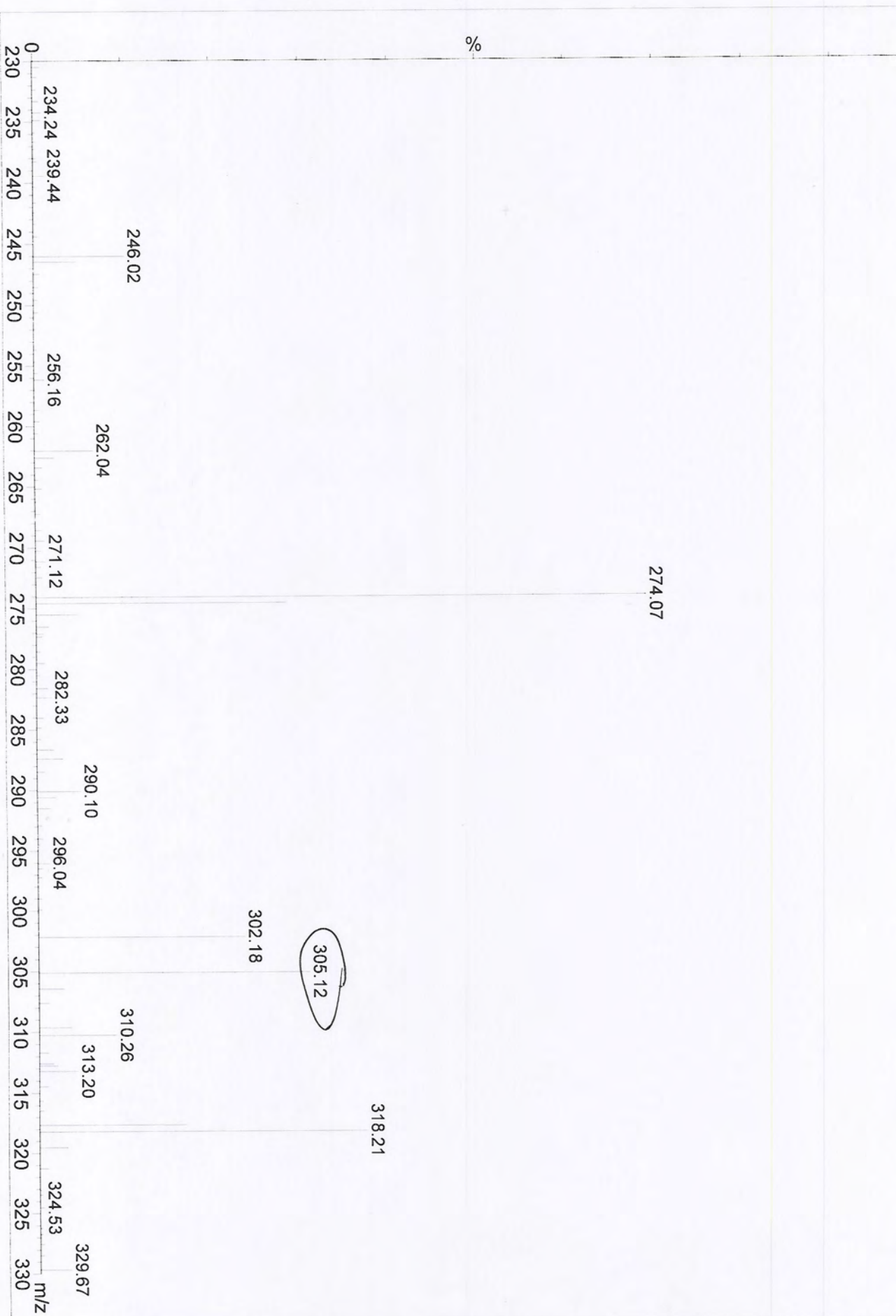
268.94

Daughters of 305ES+
6.45e5



MES
MES SAMPLE 01 1 (0.044)

Scan ES+
1.76e7



MES 15

MES SAMPLE 02 1 (0.044)

268.88

Daughters of 305ES+
1.04e6



Quantify Compound Summary Report **MassLynx 4.1**

Dataset: _____
Signature: At Friday, October 10, 2014 09:05:22 China Standard Time
 By _____
 Reason processing data
Printed: At Friday, October 10, 2014 09:07:09 China Standard Time
 By _____

Method: _____ **09 Oct 2014 16:35:34**

Calibration: 10 Oct 2014 09:04:37

Compound name: MES

Correlation coefficient: $r = 0.999862$, $r^2 = 0.999725$

Calibration curve: $1.00539 * x + 4.33658$

Response type: External Std, Area

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

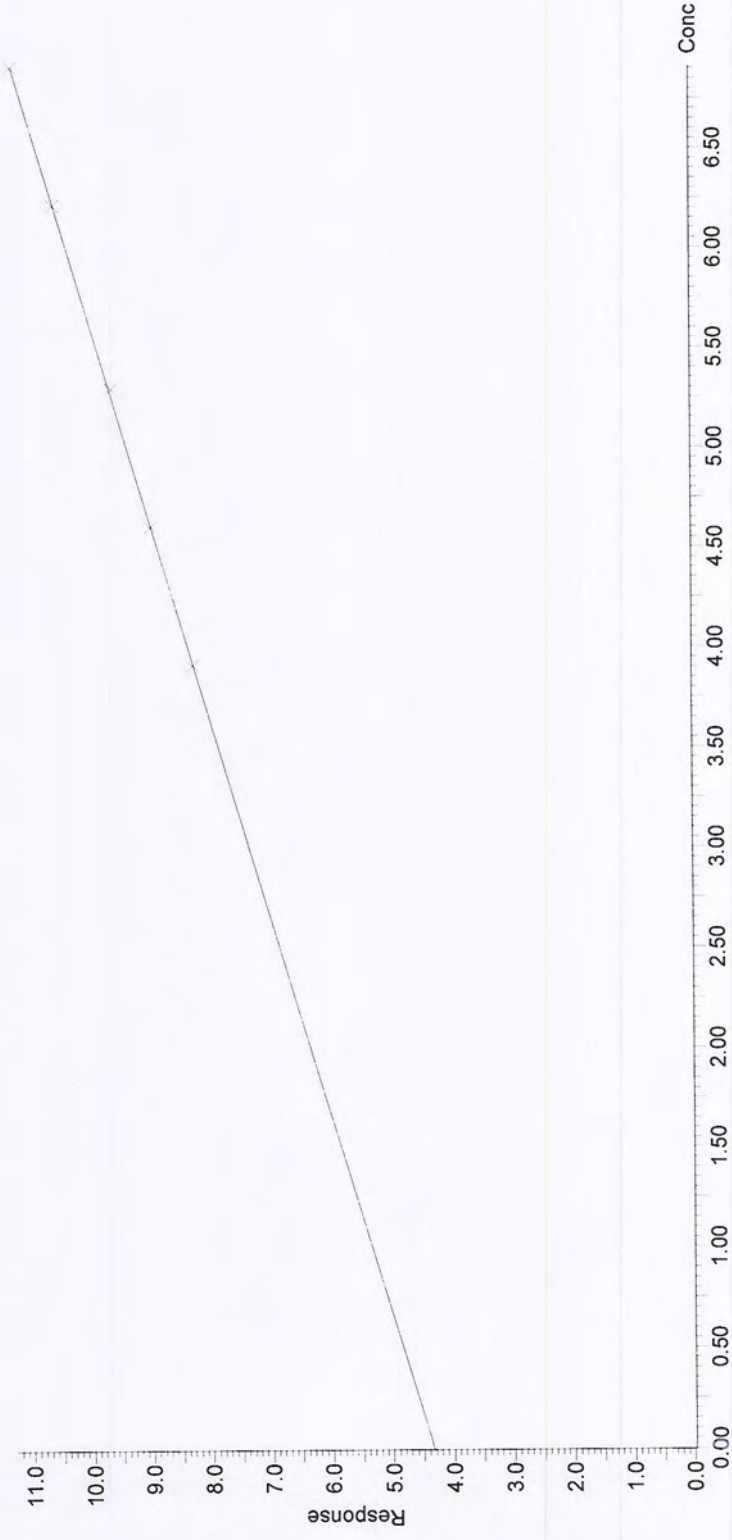
#	Sample Text	ID	Type	Area	Conc.	%Dev	Factor1	RT	Primary Flags	Response
1	MES Std 50.0 ng/mL	W1	Standard	3947	50.6	1.11	1.0	4.48	bb	3947.384
2	MES Std 100 ng/mL	W2	Standard	7905	101	0.871	1.0	4.48	bb	7905.310
3	MES Std 200 ng/mL	W3	Standard	15180	193	-3.49	1.0	4.50	bb	15179.783
4	MES Std 500 ng/mL	W4	Standard	39759	503	0.590	1.0	4.50	bb	39759.070
5	MES Std 1000 ng/mL	W5	Standard	80140	1010	0.997	1.0	4.48	bb	80140.148
6	MES SampMES 200 ng/mL		Analyte	15485	197		1.0	4.48	bb	15485.339
7	MES SampMES 200 ng/mL		Analyte	15696	200		1.0	4.48	bb	15696.355
8	MES SampMES 200 ng/mL		Analyte	15178	193		1.0	4.48	bb	15178.162

Quantify Calibration Report MassLynx 4.1

Dataset:  At Friday, October 10, 2014 09:05:22 China Standard Time
Signature:  By
Reason processing data
Printed:  At Friday, October 10, 2014 09:07:09 China Standard Time
By 

Method:  09 Oct 2014 16:35:34
Calibration: 10 Oct 2014 09:04:37

Compound name: MES
Correlation coefficient: $r = 0.999862$, $r^2 = 0.999725$
Calibration curve: $1.00539 * x + 4.33658$
Response type: External Std, Area
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: Ln



Dataset:
Signature: At Friday, October 10, 2014 09:05:22 China Standard Time
By
Reason processing data
Printed: At Friday, October 10, 2014 09:07:09 China Standard Time
By

Method: 09 Oct 2014 16:35:34
Calibration: 10 Oct 2014 09:04:37

Name: AR53001, Date: 09-Oct-2014, Time: 16:42:49, ID: W1, Description: MES Std 50.0 ng/mL



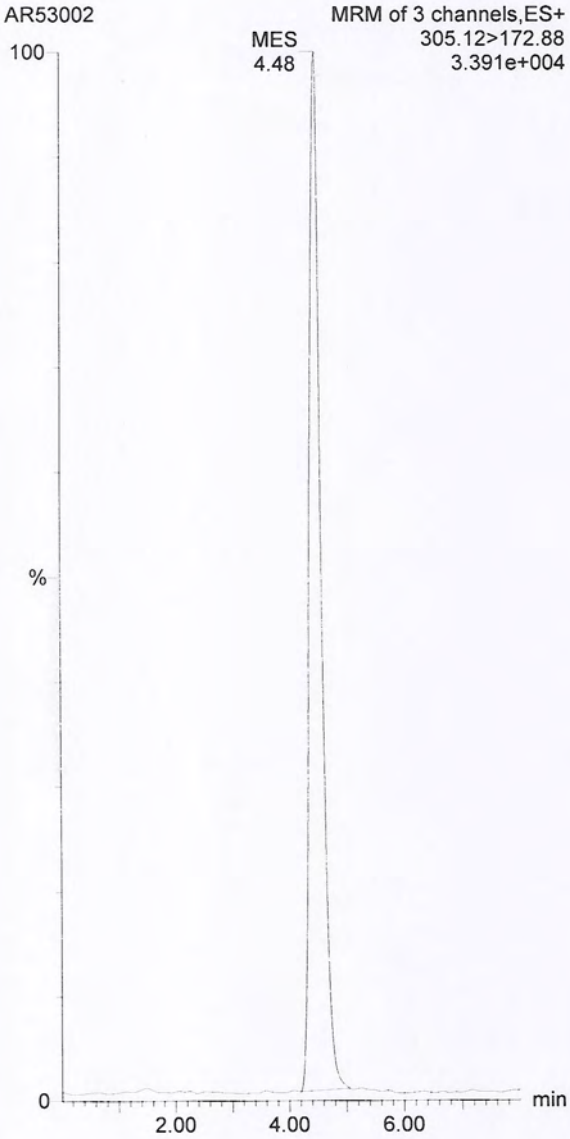
#	Name	Area	Conc.	RT.	Primary Flags
1	MES	3947	50.6	4.48	bb

Dataset:
Signature: At Friday, October 10, 2014 09:05:22 China Standard Time
By
Reason processing data
Printed: At Friday, October 10, 2014 09:07:09 China Standard Time
By

Name: AR53002, Date: 09-Oct-2014, Time: 16:52:32, ID: W2, Description: MES Std 100 ng/mL

MES

AR53002



#	Name	Area	Conc.	RT.	Primary Flags
1	MES	7905	100.9	4.48	bb

Dataset:
Signature: At Friday, October 10, 2014 09:05:22 China Standard Time
By
Reason processing data
Printed: At Friday, October 10, 2014 09:07:09 China Standard Time
By

Name: AR53003, Date: 09-Oct-2014, Time: 17:02:14, ID: W3, Description: MES Std 200 ng/mL



#	Name	Area	Conc.	RT.	Primary Flags
1	MES	15180	193.0	4.50	bb

Dataset:
Signature: At Friday, October 10, 2014 09:05:22 China Standard Time
By
Reason processing data
Printed: At Friday, October 10, 2014 09:07:09 China Standard Time
By

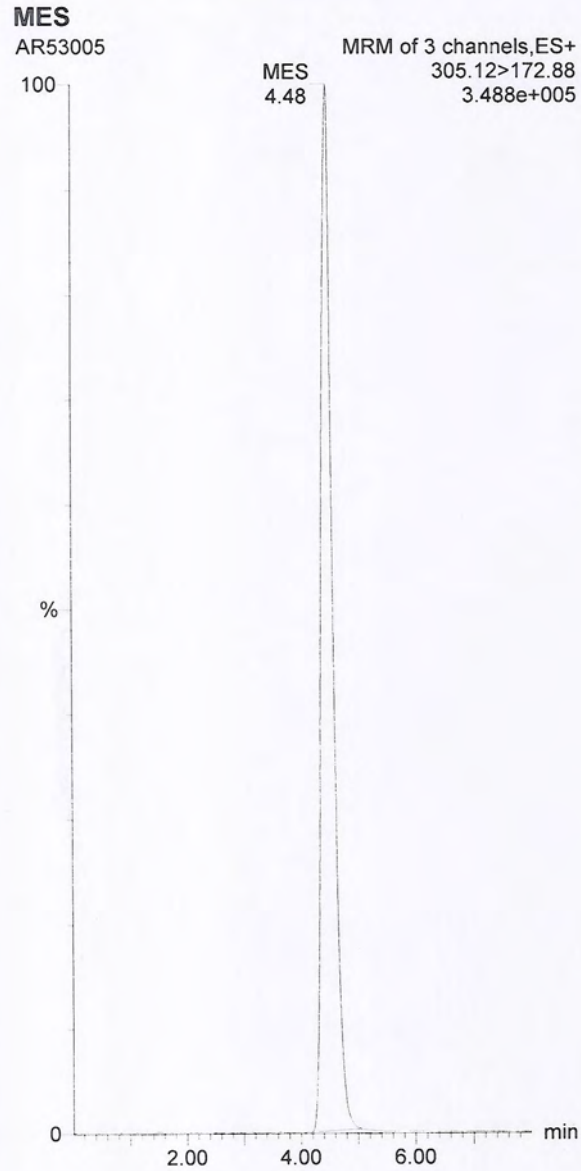
Name: AR53004, Date: 09-Oct-2014, Time: 17:11:58, ID: W4, Description: MES Std 500 ng/mL



#	Name	Area	Conc.	RT.	Primary Flags
1	MES	39759	502.9	4.50	bb

Dataset:
Signature: At Friday, October 10, 2014 09:05:22 China Standard Time
By
Reason processing data
Printed: At Friday, October 10, 2014 09:07:09 China Standard Time
By

Name: AR53005, Date: 09-Oct-2014, Time: 17:21:42, ID: W5, Description: MES Std 1000 ng/mL



#	Name	Area	Conc.	RT.	Primary Flags
1	MES	80140	1010.0	4.48	bb

Dataset:
Signature: At Friday, October 10, 2014 09:05:22 China Standard Time
By
Reason processing data
Printed: At Friday, October 10, 2014 09:07:09 China Standard Time
By

Name: AR53006, Date: 09-Oct-2014, Time: 17:31:25, ID: , Description: MES SampMES 200 ng/mL



#	Name	Area	Conc.	RT	Primary Flags
1	MES	15485	196.9	4.48	bb

Dataset:
Signature: At Friday, October 10, 2014 09:05:22 China Standard Time
By
Reason processing data
Printed: At Friday, October 10, 2014 09:07:09 China Standard Time
By

Name: AR53007, Date: 09-Oct-2014, Time: 17:41:09, ID: , Description: MES SampMES 200 ng/mL



#	Name	Area	Conc.	RT	Primary Flags
1	MES	15696	199.5	4.48	bb

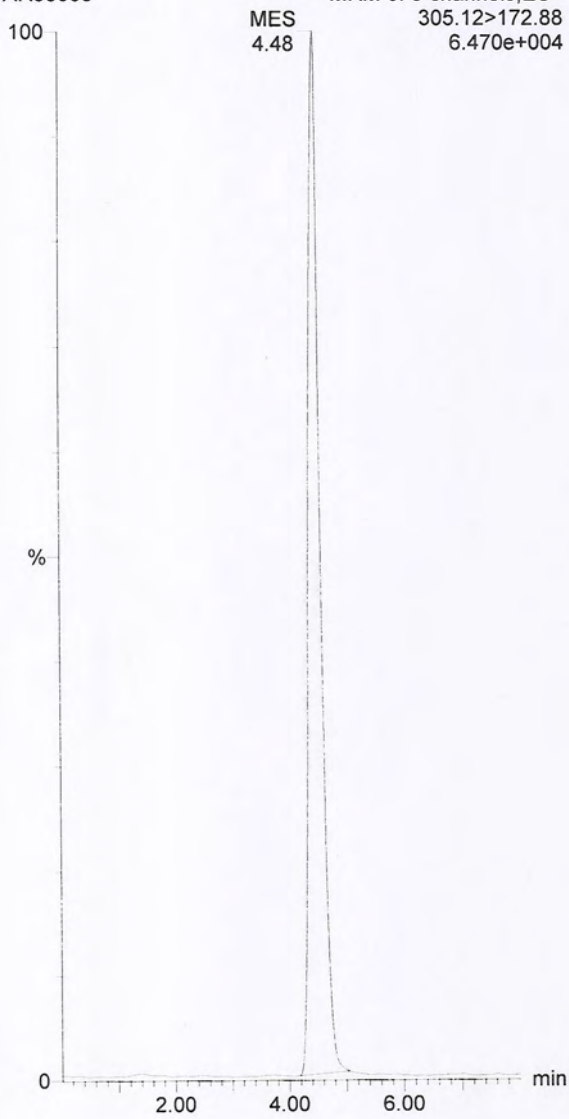
Dataset:
Signature: At Friday, October 10, 2014 09:05:22 China Standard Time
By
Reason processing data
Printed: At Friday, October 10, 2014 09:07:09 China Standard Time
By

Name: AR53008, Date: 09-Oct-2014, Time: 17:50:52, ID: , Description: MES SampMES 200 ng/mL

MES

AR53008

MRM of 3 channels, ES+
305.12>172.88
6.470e+004



#	Name	Area	Conc.	RT.	Primary Flags
1	MES	15178	193.0	4.48	bb

AR54

Mesterolone

HPLC Condition

Solvent A: 0.1% Formic Acid in Water

Solvent B: 0.1% Formic Acid in Acetonitrile

Mobile Phase: Solvent A:Solvent B (30:70 v/v)

Flow Rate (mL/min): 0.3

Column: Waters Atlantis dC18, 150 × 2.1 mm, 5 µm, Column

	Calculated Conc.(ng/mL)	Mean Actual Conc.(ng/mL)	Theoretical Conc.(ng/mL)	Assay Percent %
S1-1	197	197	200	98.5
S1-2	200			
S1-3	193			