










**Worklist: 2240**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2018-0925	2	109636	AM 27 Blood THC Quant by LC	
P2018-0504	1	109637	AM 27 Blood THC Quant by LC	
P2018-0507	1	109638	AM 27 Blood THC Quant by LC	
P2018-0527	1	109639	AM 27 Blood THC Quant by LC	
P2018-0528	3	109640	AM 27 Blood THC Quant by LC	
P2018-0544	1	109641	AM 27 Blood THC Quant by LC	
P2018-0563	1	109643	AM 27 Blood THC Quant by LC	
P2018-0565	1	109644	AM 27 Blood THC Quant by LC	
P2018-0566	1	109645	AM 27 Blood THC Quant by LC	
P2018-0580	1	109647	AM 27 Blood THC Quant by LC	
P2018-0581	1	109648	AM 27 Blood THC Quant by LC	
P2018-0582	1	109649	AM 27 Blood THC Quant by LC	
P2018-0603	1	109663	AM 27 Blood THC Quant by LC	

# Quantitation of THC and Metabolites in Blood by LC-MS/MS

TS

Extraction Date: 03/09/18

Analyst: Tamara Salazar

Plate lot#: 0515037

Plate Expiration: 09/28/18

**Mobile phase A:** 0.1% Formic Acid in LCMS Water  
MTBE

**Mobile phase B:** 0.1% Formic acid in Acetonitrile  
Hexane

**Blank Blood Lot:** 361331-2

**Column:** UCT Selectra DA 100 x 2.1mm 3um

**LCMS-QQQ ID:** 59740

## Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.
- 3. Create worklist:

## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Pipette **1000µL blood (calibrated pipette) Pipette ID: #27** in wells of analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **500µL 0.1% formic acid in water** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **800µL of blood+acid** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).  
*(Load at 85-100 PSI- Selector to the right) Manifold ID: 067104*
- 8. Wait 5 minutes.
- 9. Add **2.25mL MTBE. (Add in 3 increments of 750uL)**
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 12. Add **2.25mL Hexane. (Add in 3 increments of 750uL)**
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
*SPE Dry ID: 067103*
- 16. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

- 1. Create batch and process data.  
Worklist path: *C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240*  
Batch Name: *THC Quant TS 030918 wklist 2240*
- 2. Make any necessary integration changes,  $r^2$  values  $\geq 0.98$  for each analyte.
- 3. Did all QCs pass for each analyte? Y / N Enter QCs into control charting?
- 4. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

Carboxy-THC curve range limited: 5-250

TS



# Idaho State Police Forensic Services

TS

## AM #27 Quantitative Analysis of THC and Metabolites in Blood by LCMS-QQQ

**Analyst:** Tamara Salazar  
**Extraction Date:** 03/09/18  
**Worklist Number:** 2240

<i>Reagent</i>	<i>Lot Number</i>	<i>Expiration Date</i>	<i>Date in Service</i>	<i>Date Out of Service</i>	<i>Initials</i>
ToxBox THC/THC Metabolite Plate	0515037	09/28/18			
Negative Blood	361331-2		12/27/17		
Methanol External Control Solution	WS020718	02/07/19	02/07/18		
Blood External Control Solution	020718	02/07/19	02/07/18		
Methyl Tert-Butyl Ether (MTBE) 99.9%	A0375555		06/26/17		
Hexanes (ACS Grade or Better)	101642		10/26/17		
Methanol (LCMS Grade)	172516		12/12/17		
0.1% Formic Acid in Water (Mobile Phase A)	166541		06/26/17		
0.1% Formic Acid in Acetonitrile (Mobile Phase B)	176190		02/06/18		
Needle Rinse--75% LCMS MeOH in LCMS Water	030818		03/08/18		

**Methanol External Control Solution (Lot: WS020718)**  
*10 ul of 1mg/mL THC, 100 ul of 100 ug/mL THC-OH, C-THC in 9790 ul MeOH*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	172516	
THC	Cerilliant	FE04231406	04/30/2019
C-THC	Cayman	0497429	02/08/2019
THC-OH	Cerilliant	FE01121503	01/31/2020
Prepared:	02/07/18		
Prepared By:	Tamara Salazar		
Expires:	02/07/19		

**Blood External Control Solution (Lot: 020718)**  
*100 ul of methanol external control solution was added to 9900 ul of blood.*

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	361331-2
Methanol External Control Solution		WS020718
Prepared:	02/07/18	
Prepared by:	Tamara Salazar	
Expires:	02/07/19	

**Needle Rinse (75% LCMS MeOH in LCMS Water) (Lot: 030818)**

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
MeOH (LCMS Grade)	Fisher	172516
Water (LCMS Grade)	Fisher	102501
Prepared:	03/08/18	
Prepared By:	Tamara Salazar	

TS

# ISP FORENSICS - Pocatello Instrument # 59740

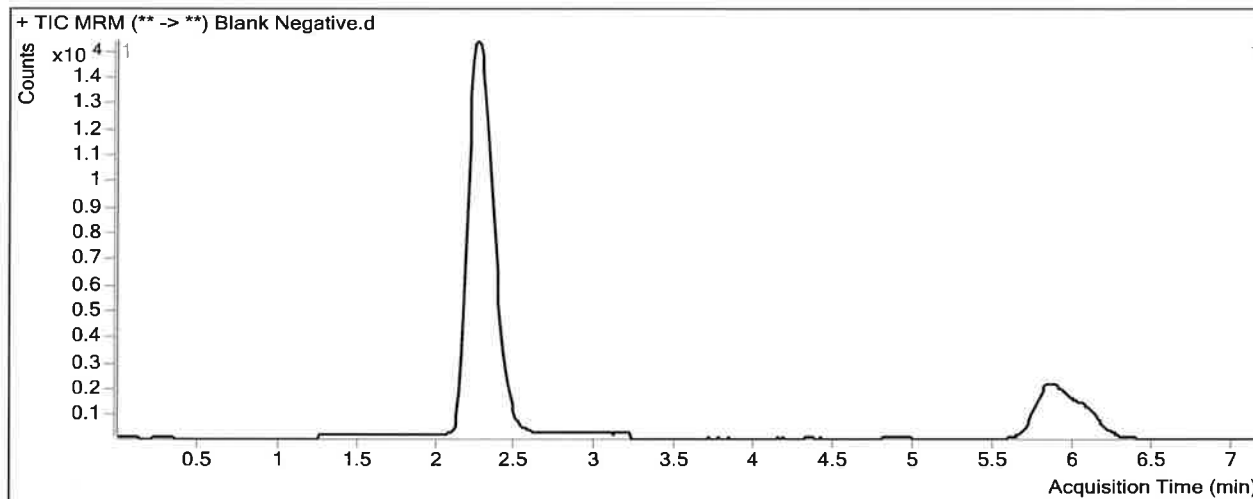
## Cannabinoids Analysis Report

**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Q  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-03-09 15:03 **Data File** Blank Negative.d  
**Sample Type** Sample **Sample Name** Blank Negative  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** Vial 2 **Sample Info**  
**Inj Vol** -1 **Comment**

### Sample Chromatogram



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# ISP FORENSICS - Pocatello Instrument # 59740

## Cannabinoids Analysis Report

**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Quant TS 0309  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

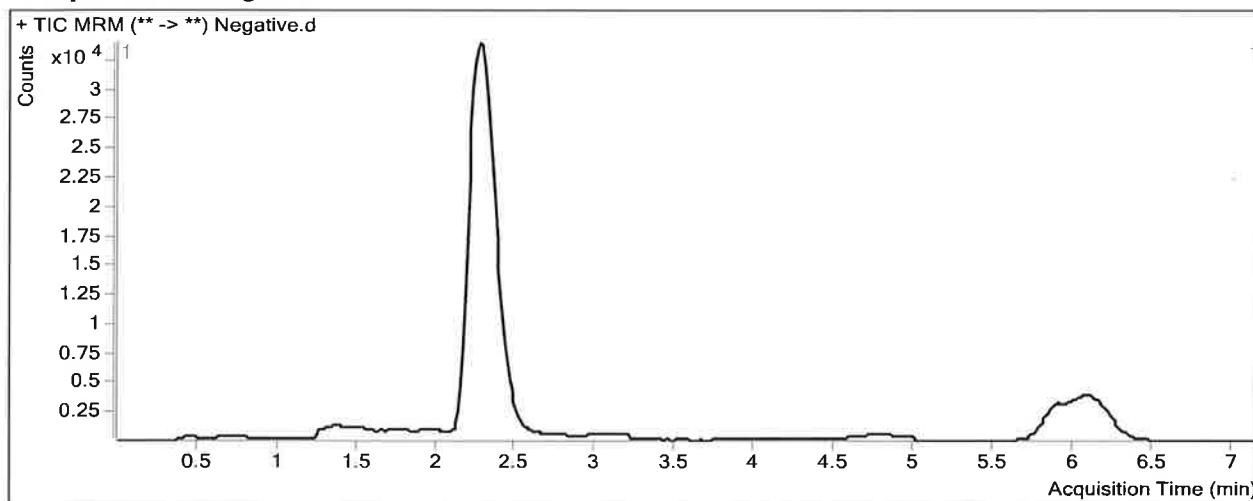
### Analysis Info

**Acq Time** 2018-03-09 16:10 **Data File** Negative.d  
**Sample Type** Sample **Sample Name** Negative  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** P1-A2 **Sample Info**  
**Inj Vol** -1 **Comment** Hemostat 361331-3

361331-2

TS

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.092	1015	298167	0.0034	0.0000

# ISP FORENSICS - Pocatello Instrument # 59740

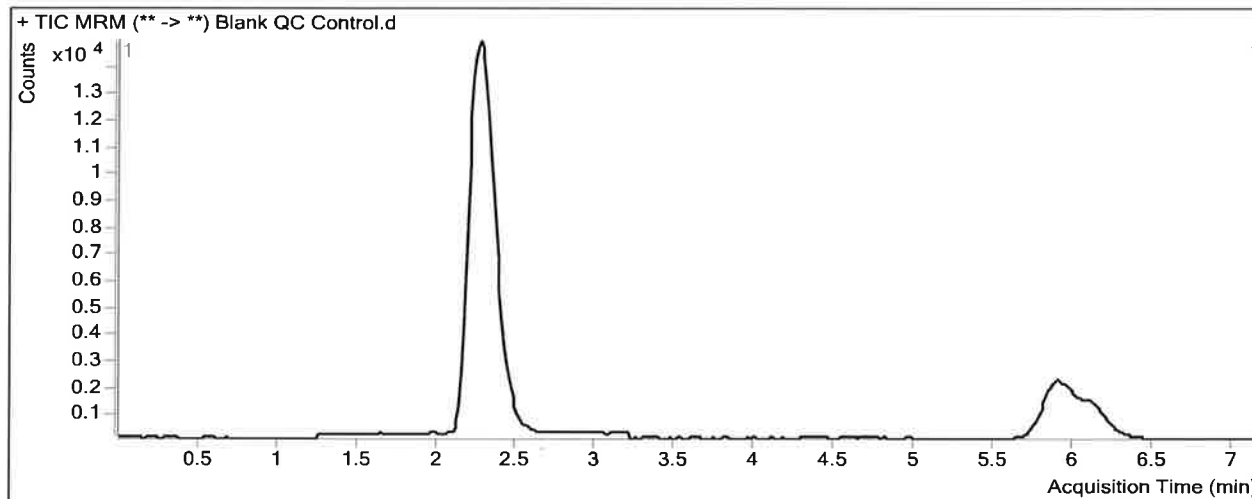
## Cannabinoids Analysis Report

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**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-03-09 14:40 **Data File** Blank QC Control.d  
**Sample Type** Sample **Sample Name** Blank QC Control  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** Vial 2 **Sample Info**  
**Inj Vol** -1 **Comment**

### Sample Chromatogram



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# ISP FORENSICS - Pocatello Instrument # 59740

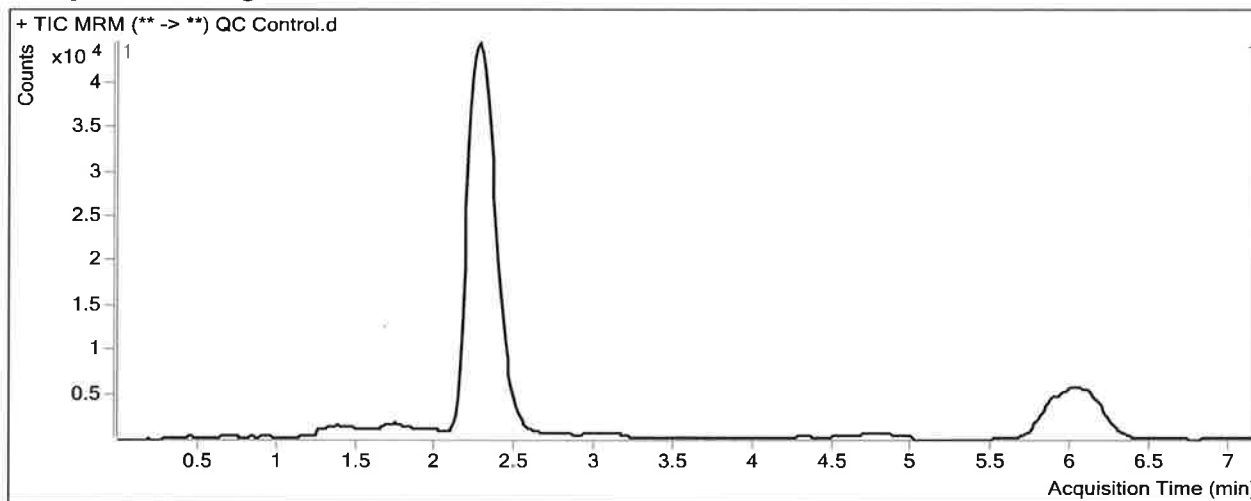
## Cannabinoids Analysis Report

**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Quant TS 0309  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-03-09 14:51 **Data File** QC Control.d  
**Sample Type** Sample **Sample Name** QC Control  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** P1-H1 **Sample Info**  
**Inj Vol** -1 **Comment**

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.265	36807	355019	0.1037	9.5526
THC-COOH	THC-COOH-D9	2.352	25079	102209	0.2454	9.8263
THC	THC-D3	6.012	14144	117362	0.1205	10.1722



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# ISP FORENSICS - Pocatello Instrument # 59740

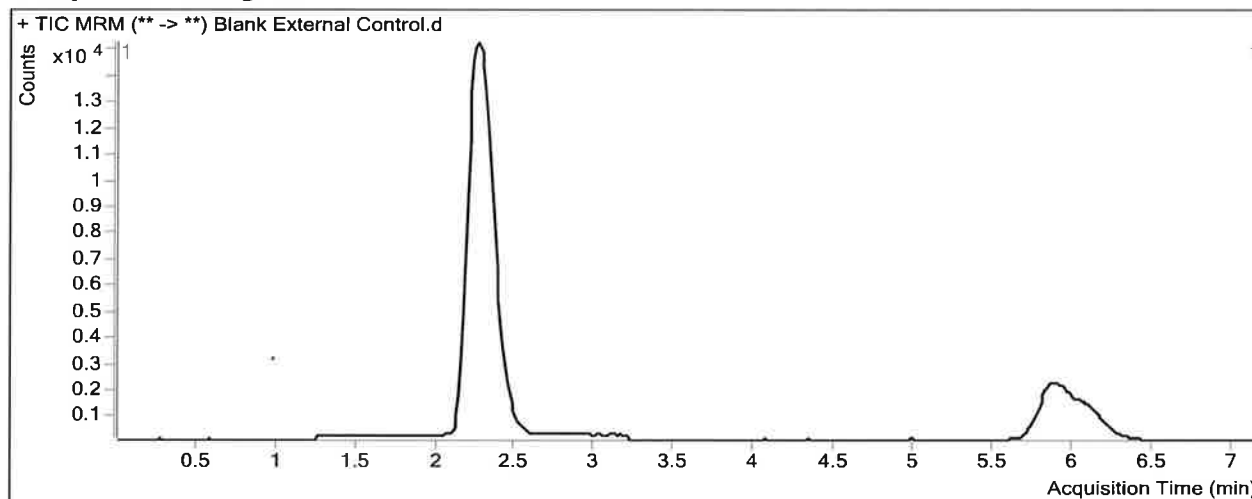
## Cannabinoids Analysis Report

**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Q  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:46 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-03-09 16:21 **Data File** Blank External Control.d  
**Sample Type** Sample **Sample Name** Blank External Control  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** Vial 2 **Sample Info**  
**Inj Vol** -1 **Comment**

### Sample Chromatogram



TS

# ISP FORENSICS - Pocatello Instrument # 59740

## Cannabinoids Analysis Report

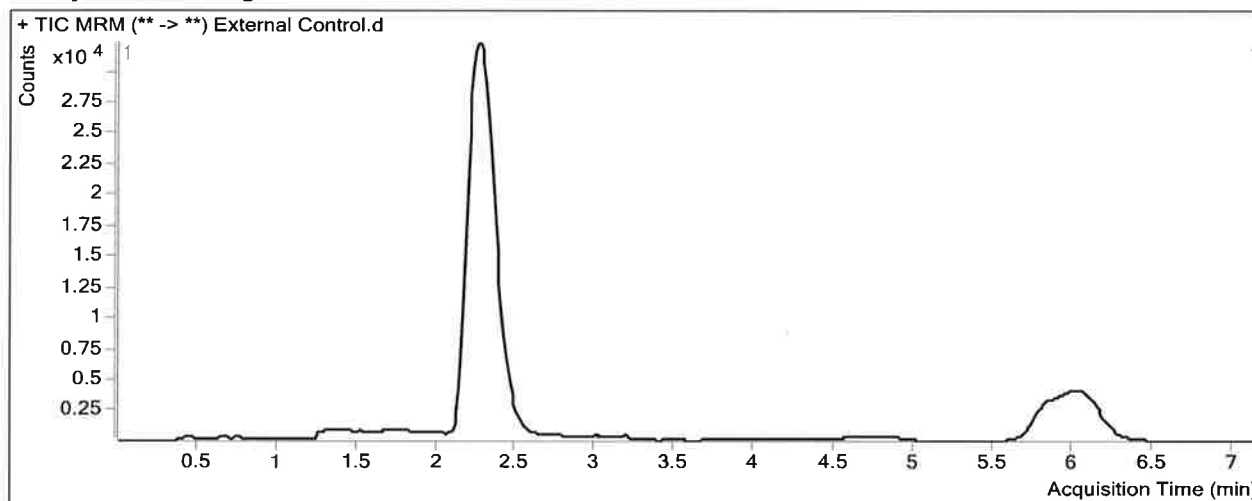
**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Quant TS 0309  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:46 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-03-09 16:33 **Data File** External Control.d  
**Sample Type** Sample **Sample Name** External Control  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** P1-B2 **Sample Info**  
**Inj Vol** -1 **Comment** Hemostat 361331-3 + WS 020718

361331-2 TS

### Sample Chromatogram



### Results

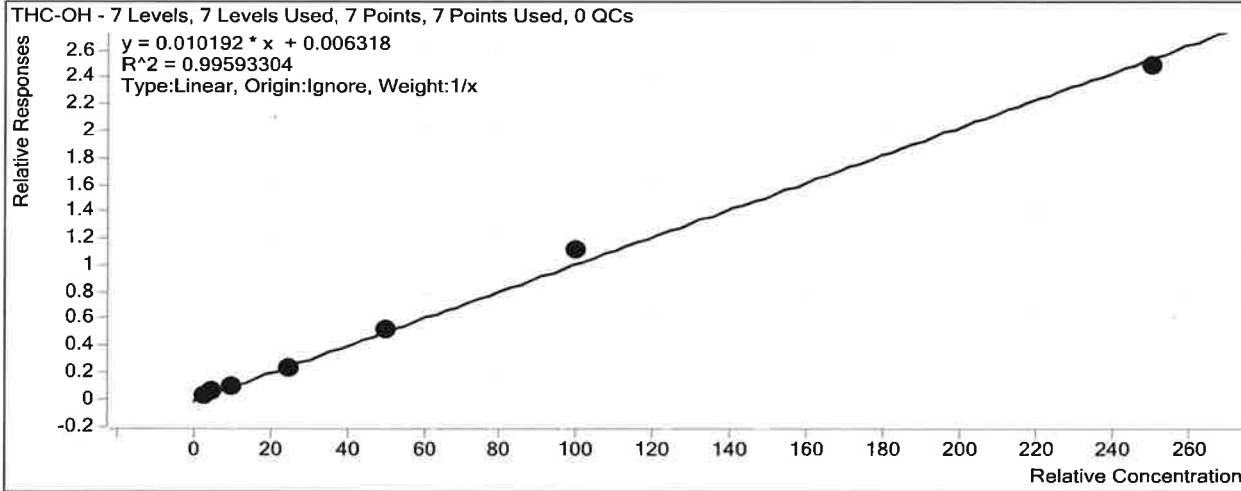
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.252	21351	262138	0.0814	7.3718
THC-COOH	THC-COOH-D9	2.352	17415	76102	0.2288	9.0584
THC	THC-D3	5.945	8892	87735	0.1013	8.5464

# ISP Forensics Calibration Curve Report

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**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Quant TS 030918 wklst 2240.batch.bin  
**Last Calib Update** 3/16/2018 1:42 PM **Analyst Name** ISP TOX

**Target Compound** *THC-OH*  
**Internal Standard** *THC-OH-D3*



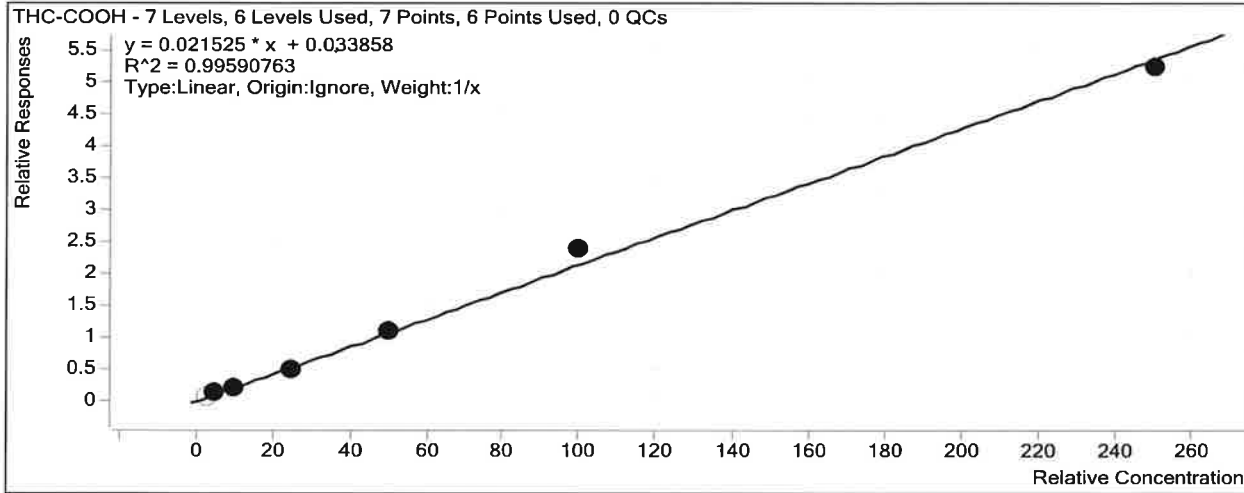
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Cal 1	1	<input checked="" type="checkbox"/>	3	3.2	107.6
Cal 2	2	<input checked="" type="checkbox"/>	5	5.1	103.0
Cal 3	3	<input checked="" type="checkbox"/>	10	9.3	92.9
Cal 4	4	<input checked="" type="checkbox"/>	25	21.9	87.7
Cal 5	5	<input checked="" type="checkbox"/>	50	51.2	102.3
Cal 6	6	<input checked="" type="checkbox"/>	100	109.2	109.2
Cal 7	7	<input checked="" type="checkbox"/>	250	243.0	97.2

# ISP Forensics Calibration Curve Report

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**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC  
Quant TS 030918 wklst 2240.batch.bin  
**Last Calib Update** 3/16/2018 1:42 PM **Analyst Name** ISP TOX

**Target Compound** *THC-COOH*  
**Internal Standard** *THC-COOH-D9*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Cal 1	1	<input type="checkbox"/>	3	3.0	98.7
Cal 2	2	<input checked="" type="checkbox"/>	5	5.3	105.1
Cal 3	3	<input checked="" type="checkbox"/>	10	9.7	96.9
Cal 4	4	<input checked="" type="checkbox"/>	25	22.8	91.3
Cal 5	5	<input checked="" type="checkbox"/>	50	50.0	100.0
Cal 6	6	<input checked="" type="checkbox"/>	100	109.8	109.8
Cal 7	7	<input checked="" type="checkbox"/>	250	242.4	97.0

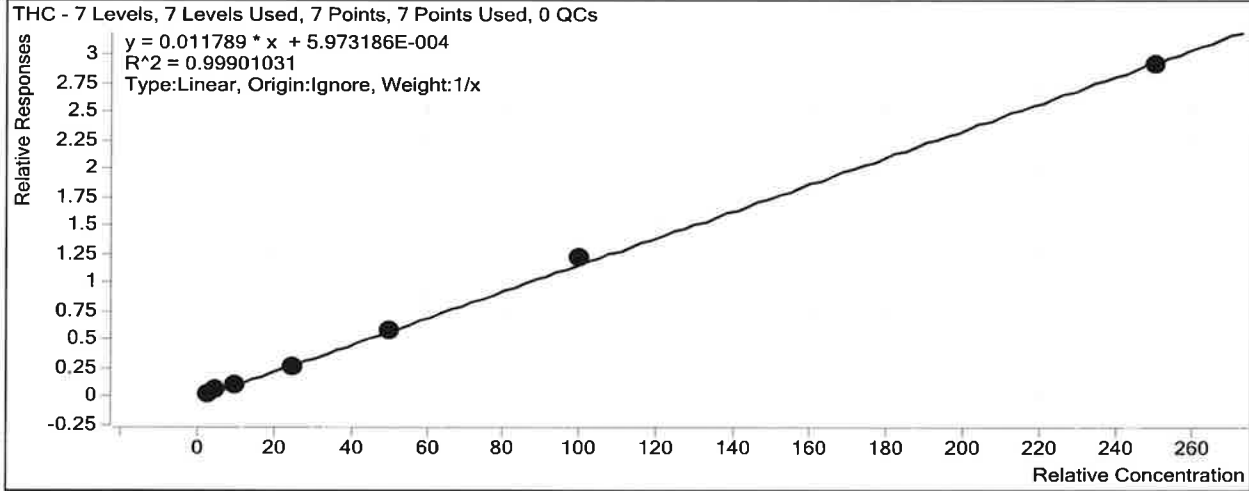
# ISP Forensics Calibration Curve Report

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**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC  
Quant TS 030918 wklst 2240.batch.bin

**Last Calib Update** 3/16/2018 1:42 PM      **Analyst Name** ISP TOX

**Target Compound** *THC*  
**Internal Standard** *THC-D3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Cal 1	1	<input checked="" type="checkbox"/>	3	3.0	101.5
Cal 2	2	<input checked="" type="checkbox"/>	5	5.2	103.7
Cal 3	3	<input checked="" type="checkbox"/>	10	9.8	98.4
Cal 4	4	<input checked="" type="checkbox"/>	25	23.2	92.8
Cal 5	5	<input checked="" type="checkbox"/>	50	50.2	100.3
Cal 6	6	<input checked="" type="checkbox"/>	100	104.4	104.4
Cal 7	7	<input checked="" type="checkbox"/>	250	247.1	98.9

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# ISP FORENSICS - Pocatello Instrument # 59740

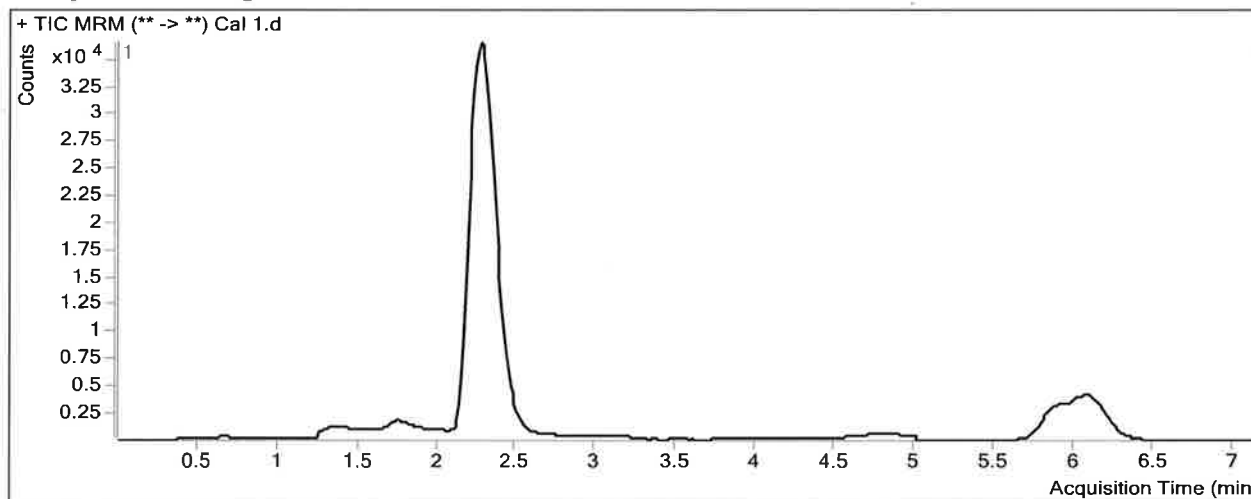
## Cannabinoids Analysis Report

**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Quant TS 0309  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-03-09 13:17 **Data File** Cal 1.d  
**Sample Type** Calibration **Sample Name** Cal 1  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** P1-A1 **Sample Info**  
**Inj Vol** -1 **Comment**

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.265	11983	305520	0.0392	3.2284
THC-COOH	THC-COOH-D9	2.365	8747	89628	0.0976	2.9610
THC	THC-D3	6.079	3374	92436	0.0365	3.0456

# ISP FORENSICS - Pocatello Instrument # 59740

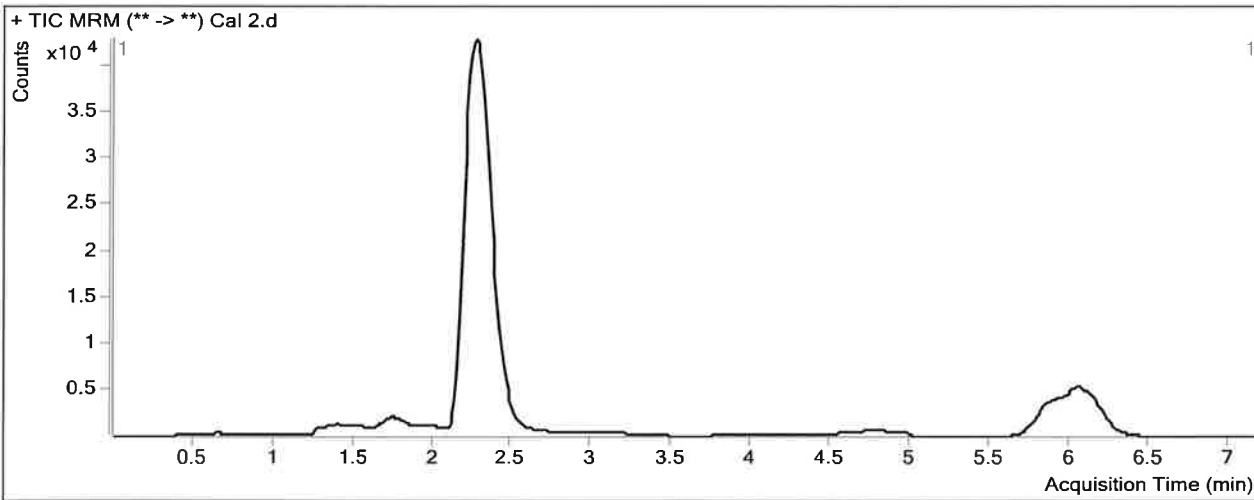
## Cannabinoids Analysis Report

**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Quant TS 0309  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

**Analysis Info**

**Acq Time** 2018-03-09 13:29 **Data File** Cal 2.d  
**Sample Type** Calibration **Sample Name** Cal 2  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** P1-B1 **Sample Info**  
**Inj Vol** -1 **Comment**

**Sample Chromatogram**



**Results**

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.265	21083	358634	0.0588	5.1484
THC-COOH	THC-COOH-D9	2.352	14797	100707	0.1469	5.2530
THC	THC-D3	6.012	6903	111868	0.0617	5.1840

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# ISP FORENSICS - Pocatello Instrument # 59740

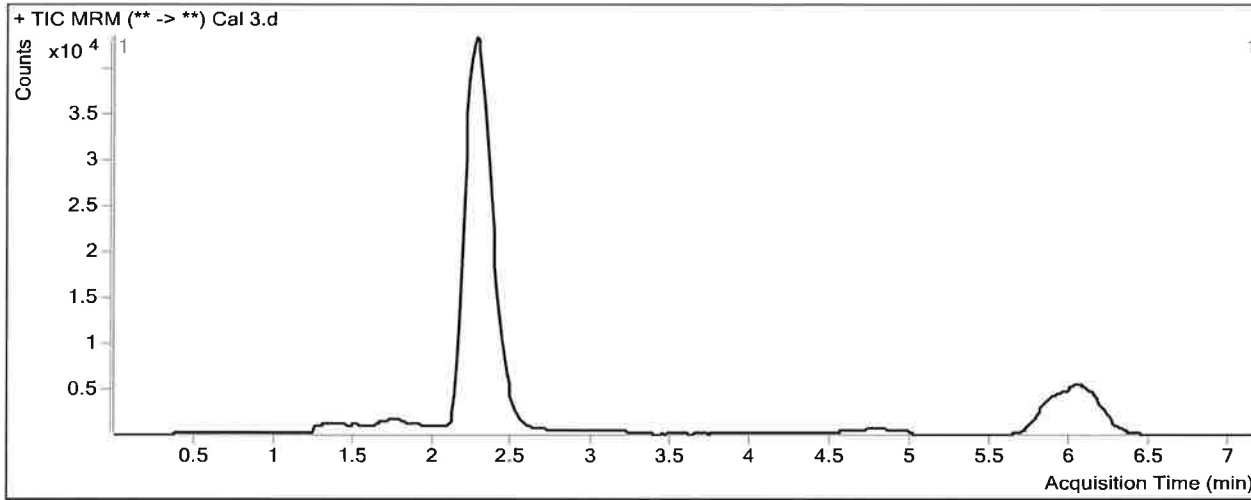
## Cannabinoids Analysis Report

**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Quant TS 0309  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

**Analysis Info**

**Acq Time** 2018-03-09 13:41 **Data File** Cal 3.d  
**Sample Type** Calibration **Sample Name** Cal 3  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** P1-C1 **Sample Info**  
**Inj Vol** -1 **Comment**

**Sample Chromatogram**



**Results**

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.265	34764	344073	0.1010	9.2938
THC-COOH	THC-COOH-D9	2.365	23878	98528	0.2424	9.6860
THC	THC-D3	6.012	12667	108612	0.1166	9.8423



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# ISP FORENSICS - Pocatello Instrument # 59740

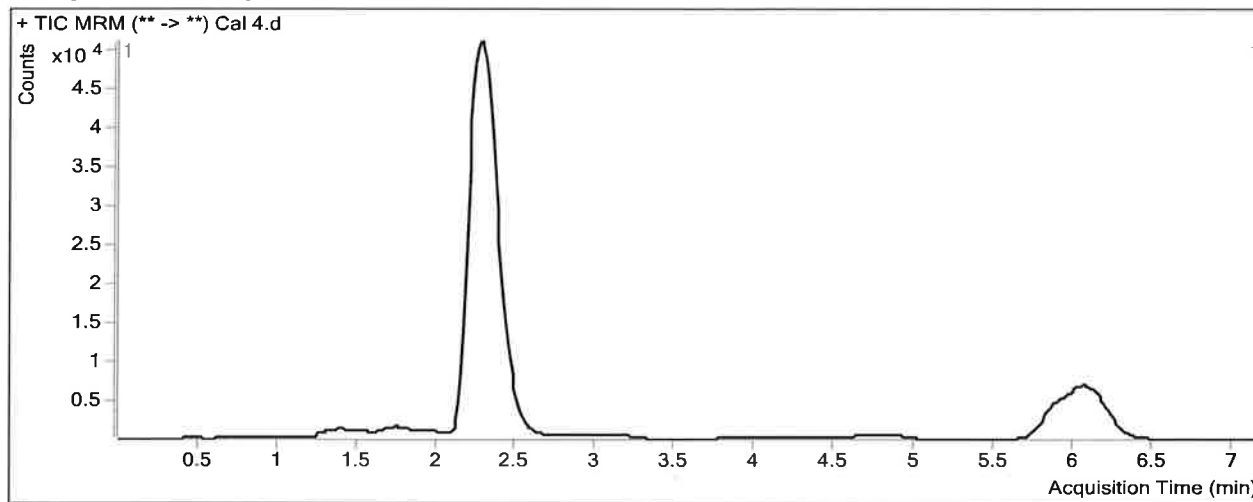
## Cannabinoids Analysis Report

**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Quant TS 0309  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-03-09 13:52 **Data File** Cal 4.d  
**Sample Type** Calibration **Sample Name** Cal 4  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** P1-D1 **Sample Info**  
**Inj Vol** -1 **Comment**

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.265	82561	359249	0.2298	21.9294
THC-COOH	THC-COOH-D9	2.365	53008	100972	0.5250	22.8158
THC	THC-D3	6.079	30761	112264	0.2740	23.1923

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# ISP FORENSICS - Pocatello Instrument # 59740

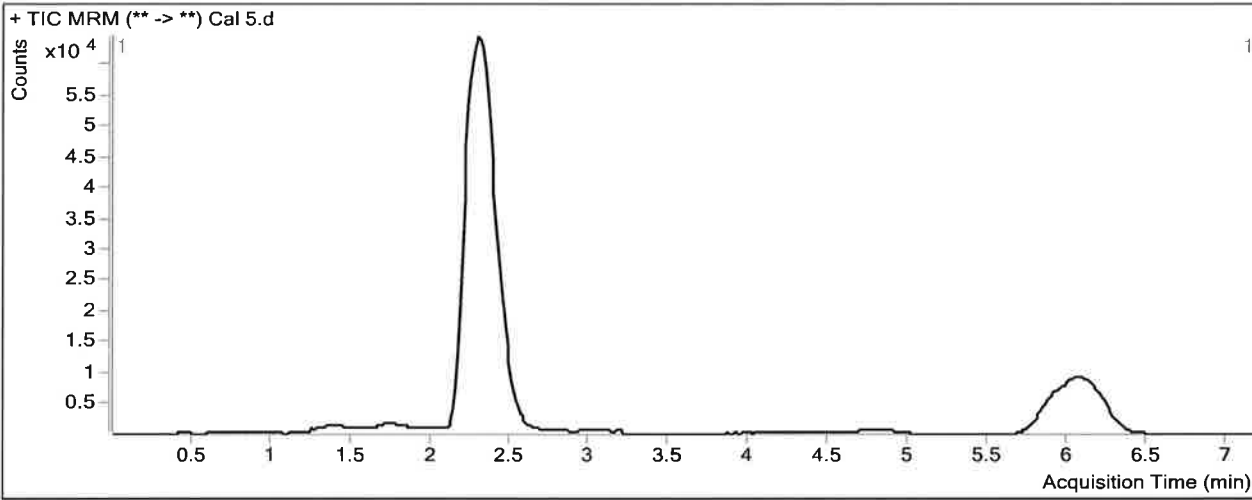
## Cannabinoids Analysis Report

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**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

**Analysis Info**

**Acq Time** 2018-03-09 14:04 **Data File** Cal 5.d  
**Sample Type** Calibration **Sample Name** Cal 5  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** P1-E1 **Sample Info**  
**Inj Vol** -1 **Comment**

**Sample Chromatogram**



**Results**

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.265	187091	354515	0.5277	51.1612
THC-COOH	THC-COOH-D9	2.379	110324	99361	1.1103	50.0101
THC	THC-D3	6.065	66655	112610	0.5919	50.1586

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# ISP FORENSICS - Pocatello Instrument # 59740

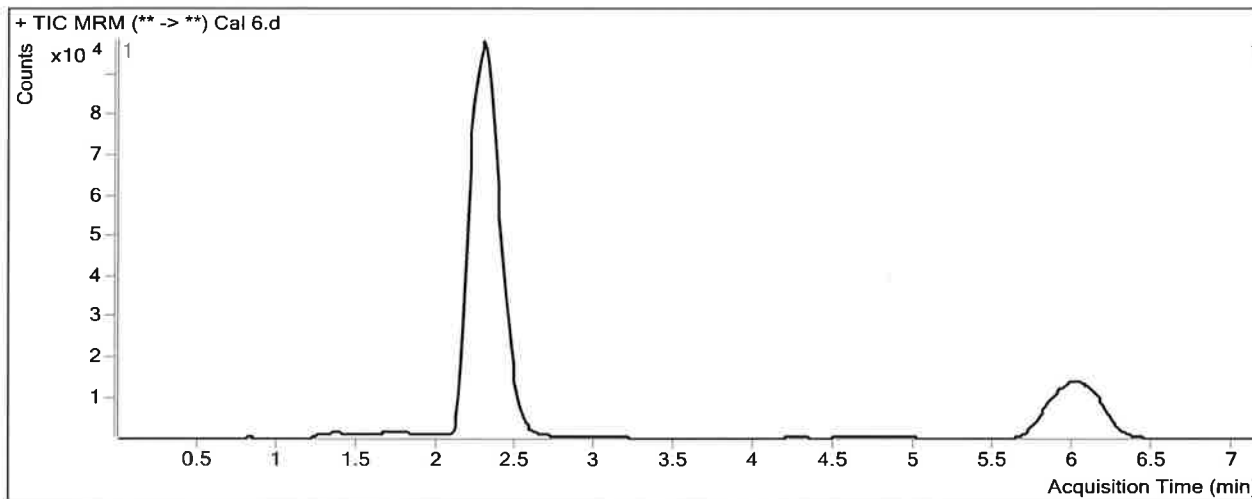
## Cannabinoids Analysis Report

**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Quant TS 0309  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-03-09 14:16 **Data File** Cal 6.d  
**Sample Type** Calibration **Sample Name** Cal 6  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** P1-F1 **Sample Info**  
**Inj Vol** -1 **Comment**

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.252	397088	354644	1.1197	109.2421
THC-COOH	THC-COOH-D9	2.352	229077	95522	2.3981	109.8377
THC	THC-D3	5.985	137866	111928	1.2317	104.4325

B

# ISP FORENSICS - Pocatello Instrument # 59740

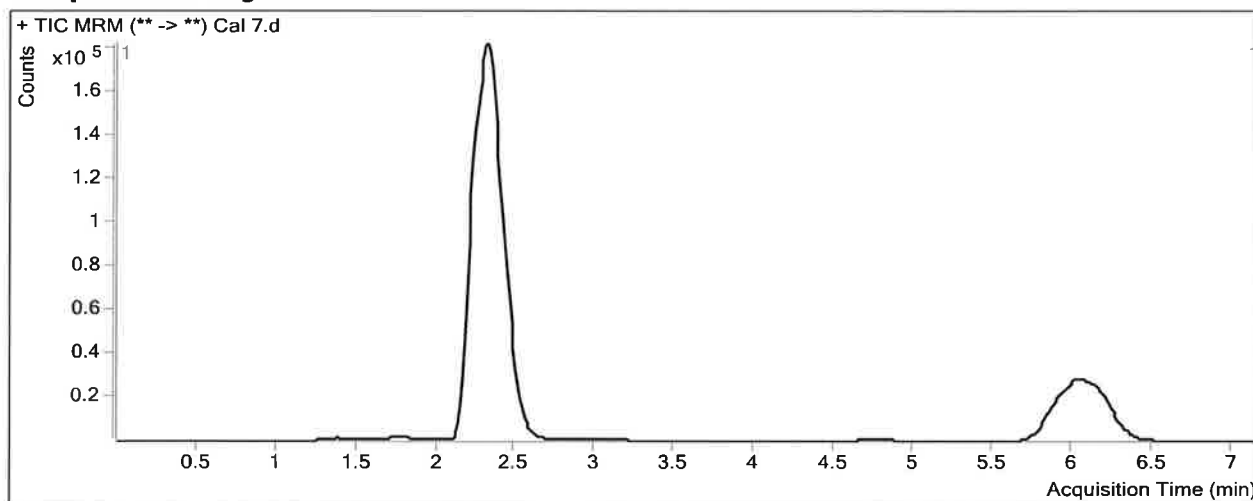
## Cannabinoids Analysis Report

**Batch Data Path** C:\MassHunter\Data\2018\THC Quant\030918 THC Quant TS Worklist 2240\QuantResults\THC Quant TS 0309  
**Analysis Time** 3/16/2018 1:42 PM **Analyst Name** ISPUser  
**Report Time** 3/16/2018 1:45 PM **Reporter Name** ISPUser  
**Last Calib Update** 3/16/2018 1:42 PM **Batch State** Processed

### Analysis Info

**Acq Time** 2018-03-09 14:28 **Data File** Cal 7.d  
**Sample Type** Calibration **Sample Name** Cal 7  
**Dilution** 1 **Acq Method** THC Quant 051517 workingmm.m  
**Position** P1-G1 **Sample Info**  
**Inj Vol** -1 **Comment**

### Sample Chromatogram



### Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-D3	2.265	955263	384741	2.4829	242.9966
THC-COOH	THC-COOH-D9	2.365	529290	100788	5.2515	242.3974
THC	THC-D3	6.052	343632	117918	2.9142	247.1448