

Worklist: 1514

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
C2016-2454	1	75458	AM 27 Blood THC Quant by LC	
M2016-3911	1	75459	AM 27 Blood THC Quant by LC	
M2016-5077	2	75460	AM 27 Blood THC Quant by LC	
M2016-5251	1	75461	AM 27 Blood THC Quant by LC	
M2016-5293	5	75462	AM 27 Blood THC Quant by LC	
P2016-2383	1	75463	AM 27 Blood THC Quant by LC	
P2016-2387	1	75464	AM 27 Blood THC Quant by LC	
P2016-2401	1	75465	AM 27 Blood THC Quant by LC	
P2016-2425	1	75466	AM 27 Blood THC Quant by LC	
P2016-2429	1	75467	AM 27 Blood THC Quant by LC	
P2016-2601	1	75468	AM 27 Blood THC Quant by LC	
P2016-2647	1	75469	AM 27 Blood THC Quant by LC	
P2016-2690	1	75470	AM 27 Blood THC Quant by LC	
P2016-2828	1	75471	AM 27 Blood THC Quant by LC	
P2016-2863	1	75472	AM 27 Blood THC Quant by LC	
P2016-2896	1	75473	AM 27 Blood THC Quant by LC	
P2016-2933	1	75477	AM 27 Blood THC Quant by LC	
P2016-2964	1	75474	AM 27 Blood THC Quant by LC	
P2016-2966	1	75475	AM 27 Blood THC Quant by LC	
P2016-2967	1	75476	AM 27 Blood THC Quant by LC	



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

Extraction Date: 1/31/17

Analyst: BW/ie

PRE-ANALYTIC

Plate Lot# Custom - 0490364 Plate Exp. 9-21-2017 External QC Lot 31317, exp 3-13-17

- ✓ 1. Ensure all solutions are within expiration date.
- Mobile Phase A: **0.1% Formic Acid in LCMS Water**
 - Mobile Phase B: **0.1% Formic Acid in LCMS Acetonitrile**
 - **LCMS Methanol**
 - **Blank/Negative Blood: Lot 321632-1**
 - **0.1% Formic Acid in water**
 - **MTBE**
 - **Hexane**
- Column: **UCT Selectra DA 100 x 2.1 mm 3um**
- ✓ 2. Check levels of mobile phases and needle wash and refill as necessary. Ensure waste is not full.
- ✓ 3. Purge Pump and Load appropriate Acq. Method, allow system to equilibrate for approx. 30 min.
- ✓ 4. Create worklist. Data path name: 1-31-17 ^{THC} BAW quant

ANALYTIC

- ✓ 1. Remove standards plate, blood, and samples from cold storage. Allow to reach room temperature.
- ✓ 2. Add **1000 µL blood** to wells of analytical (standards) plate. Mix via aspirate and dispense. Place cover on Plate
Blank blood for locations containing standards/QCs and internal standards
Sample blood for locations containing only internal standards
- ✓ 3. Place on shaking incubator at ambient temp., **900rpm for 15 minutes**. Shaker ID 66759
- ✓ 4. Pipette **500µL 0.1% formic acid** to all wells of standards 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). Wait 5 min.
(Load blood samples at 85- 100 PSI- Selector to Right)
- ✓ 8. Add **2.25mL MTBE** and allow to flow under gravity for 5 minutes. **(add in 3 increments of 750uL)**
- ✓ 9. Apply positive pressure for approx. 15 seconds **(10-15 PSI- Selector to left -)**.
- ✓ 10. Add **2.25mL Hexane** and allow to flow under gravity for 5 minutes. **(add in 3 increments of 750uL)**
- ✓ 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI Selector to the left)**
- ✓ 12. Remove collection plate containing eluate.
- ✓ 13. Place collection plate on SPE Dry and evaporate to dryness at approx. 35°C. **SPE Dry ID 66819**
- ✓ 14. Reconstitute in **100 µL MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

POST-ANALYTIC

- ✓ 1. Open quantitation software and create a new quantitation batch.
Batch name: 1-31-17 BAW cann quant
- ✓ 2. Make any necessary integration changes. Limit curves based on validated linear ranges (3-50ng/mL).
- ✓ 3. Were all appropriate standards used in the curve for each analyte? **(Y) N**
Are r^2 values ≥ 0.98 for each analyte? **(Y) N**
- ✓ 4. Did all QCs pass for each analyte? **(Y) N** Were QCs entered into QC charting? **(Y) N**
- ✓ 5. Central File Packet to include: LIMS Worklist: Method Checklist Calibration and Control Reports

COMMENTS

ISP Forensics Calibration Curve Report

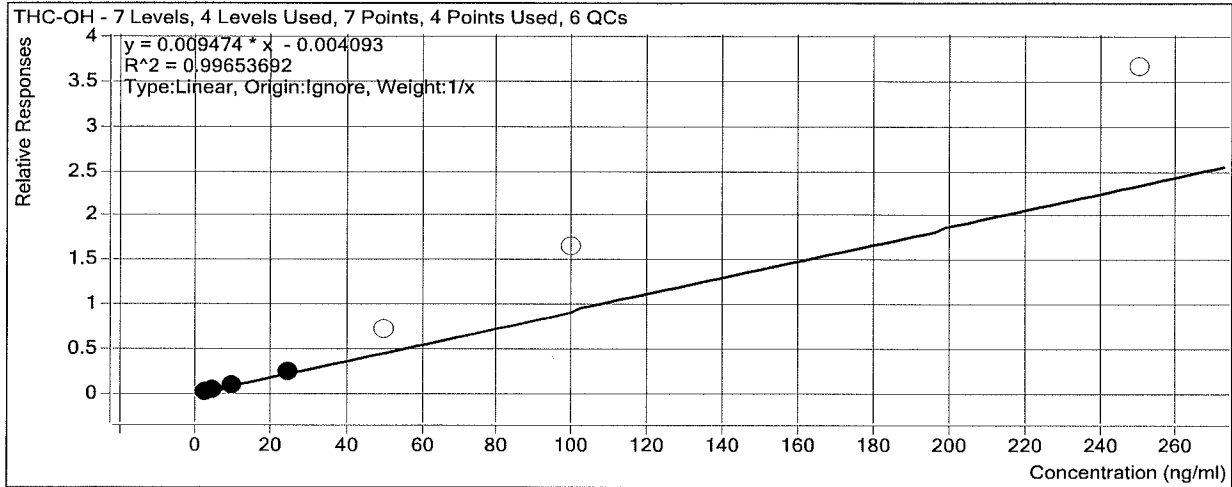
Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin

Last Calib Update 2/1/2017 3:09 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	3.0	101.5
cal 2	2	<input checked="" type="checkbox"/>	5	5.2	103.6
7.5ng ml test	2	<input checked="" type="checkbox"/>	5	8.0	160.8
7.5ng ml test 2	2	<input checked="" type="checkbox"/>	5	8.0	159.4
cal 3	3	<input checked="" type="checkbox"/>	10	9.3	92.9
QC 10	3	<input checked="" type="checkbox"/>	10	9.5	95.0
External control lot 31317	3	<input checked="" type="checkbox"/>	10	11.9	119.2
cal 4	4	<input checked="" type="checkbox"/>	25	25.5	101.9
25ng test	4	<input checked="" type="checkbox"/>	25	26.6	106.3
25 ng test 2	4	<input checked="" type="checkbox"/>	25	27.2	109.0
cal 5	5	<input type="checkbox"/>	50	75.6	151.3
cal 6	6	<input type="checkbox"/>	100	175.0	175.0
cal 7	7	<input type="checkbox"/>	250	387.3	154.9

ISP Forensics Calibration Curve Report

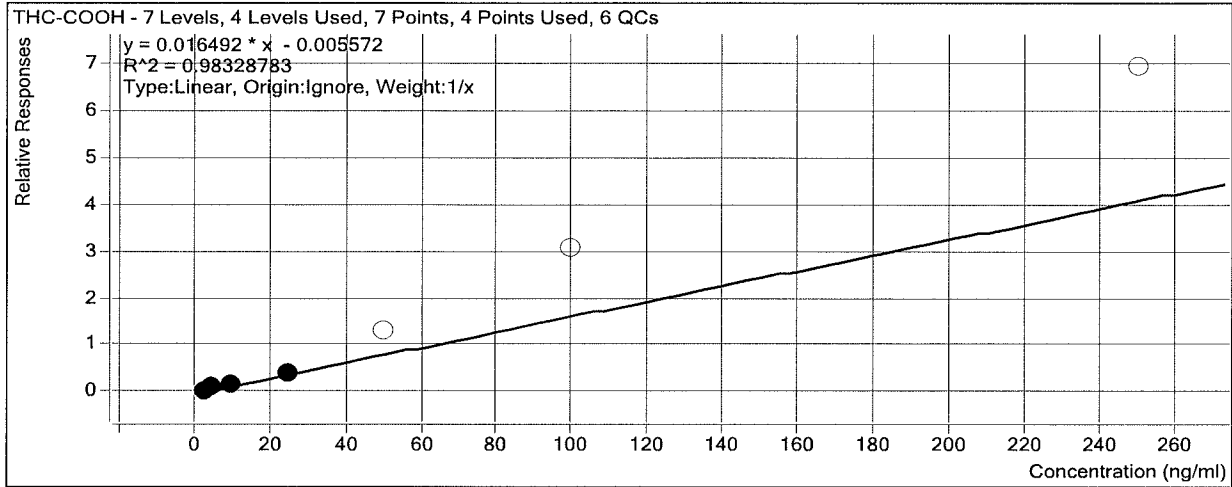
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Last Calib Update 2/1/2017 3:09 PM

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 checked="" type="checkbox"/>	3	2.7	89.4
cal 2	2	<input checked="" type="checkbox"/>	5	6.0	119.3
7.5ng ml test	2	<input checked="" type="checkbox"/>	5	5.6	112.9
7.5ng ml test 2	2	<input checked="" type="checkbox"/>	5	7.1	141.7
cal 3	3	<input checked="" type="checkbox"/>	10	9.0	89.9
QC 10	3	<input checked="" type="checkbox"/>	10	9.1	90.9
External control lot 31317	3	<input checked="" type="checkbox"/>	10	11.3	113.5
cal 4	4	<input checked="" type="checkbox"/>	25	25.4	101.5
25ng test	4	<input checked="" type="checkbox"/>	25	20.1	80.6
25 ng test 2	4	<input checked="" type="checkbox"/>	25	20.9	83.7
cal 5	5	<input type="checkbox"/>	50	79.3	158.7
cal 6	6	<input type="checkbox"/>	100	186.2	186.2
cal 7	7	<input type="checkbox"/>	250	421.1	168.4

BW

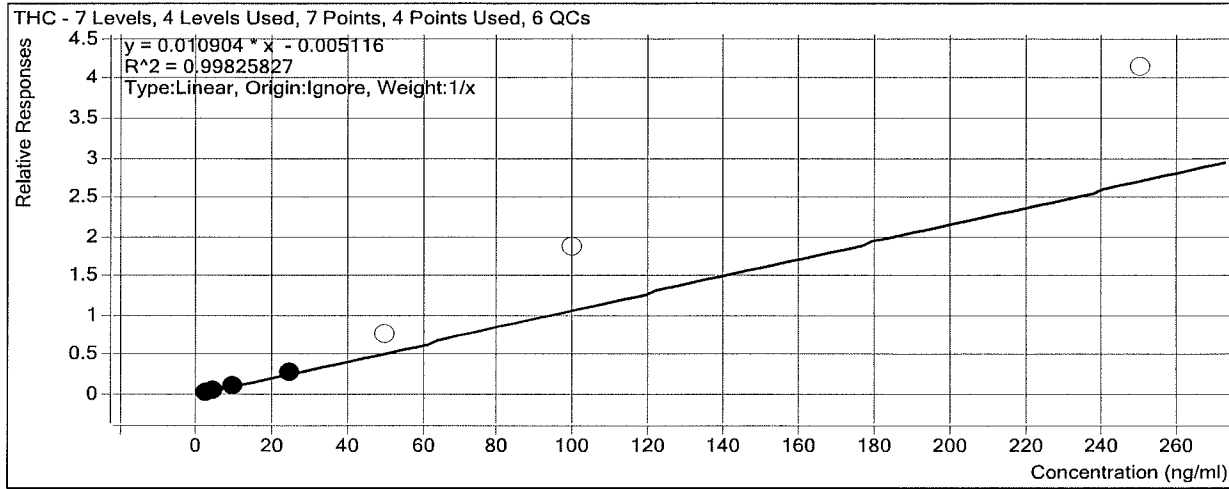
ISP Forensics Calibration Curve Report

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Last Calib Update 2/1/2017 3:09 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	100.9
cal 2	2	<input checked="" type="checkbox"/>	5	5.1	102.7
7.5ng ml test	2	<input checked="" type="checkbox"/>	5	7.3	145.9
7.5ng ml test 2	2	<input checked="" type="checkbox"/>	5	7.5	150.7
cal 3	3	<input checked="" type="checkbox"/>	10	9.5	95.0
QC 10	3	<input checked="" type="checkbox"/>	10	9.7	97.2
External control lot 31317	3	<input checked="" type="checkbox"/>	10	9.8	97.9
cal 4	4	<input checked="" type="checkbox"/>	25	25.3	101.3
25ng test	4	<input checked="" type="checkbox"/>	25	24.5	98.1
25 ng test 2	4	<input checked="" type="checkbox"/>	25	24.8	99.3
cal 5	5	<input type="checkbox"/>	50	71.0	141.9
cal 6	6	<input type="checkbox"/>	100	173.1	173.1
cal 7	7	<input type="checkbox"/>	250	380.6	152.2

ISP FORENSICS - Cd'A Instrument # 62340

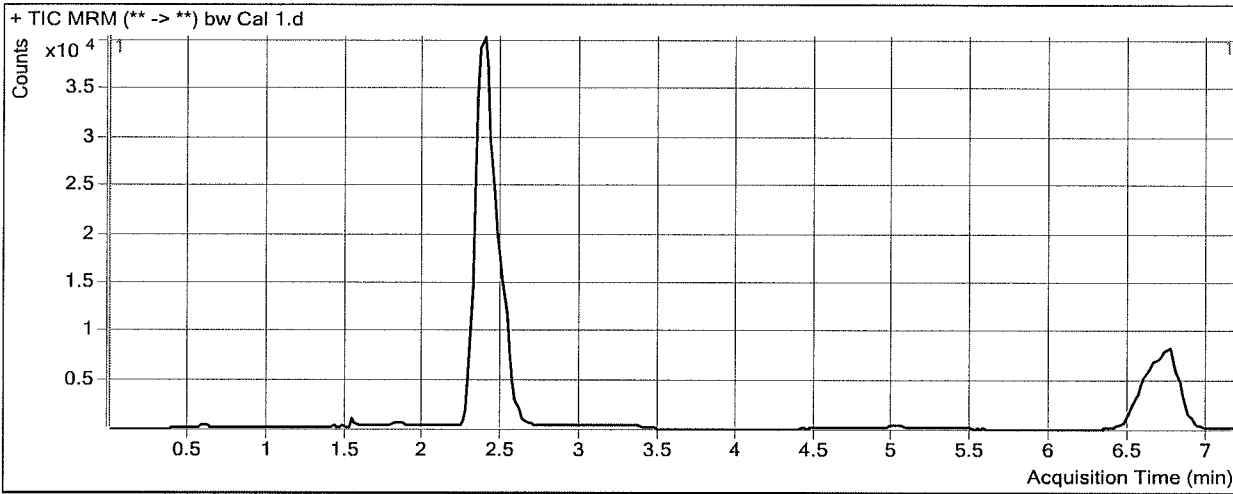
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-01-31 14:06 **Data File** bw Cal 1.d
Sample Type Calibration **Sample Name** Cal 1
Dilution 1 **Acq Method** Quant THC 2017.m
Position P2-A1 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.416	7219	291499	0.0248	3.0460
THC-COOH	THC-COOH-d9	2.526	3557	92040	0.0386	2.6811
THC	THC-d3	6.753	3543	126958	0.0279	3.0284

ISP FORENSICS - Cd'A Instrument # 62340

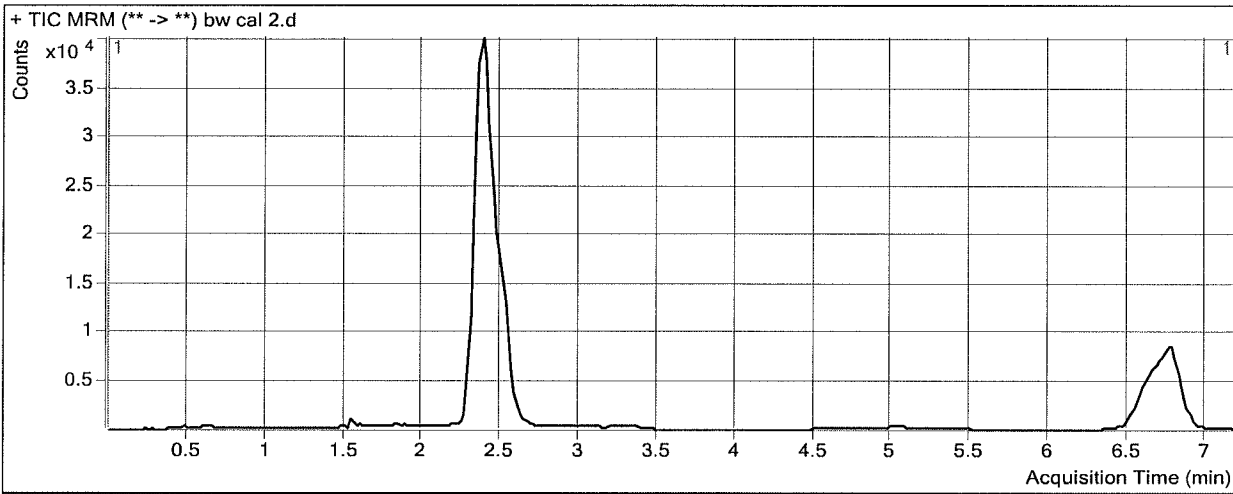
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-01-31 14:18 **Data File** bw cal 2.d
Sample Type Calibration **Sample Name** cal 2
Dilution 1 **Acq Method** Quant THC 2017.m
Position P2-B1 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.396	12529	278454	0.0450	5.1816
THC-COOH	THC-COOH-d9	2.546	8408	90620	0.0928	5.9635
THC	THC-d3	6.773	6115	120173	0.0509	5.1357

ISP FORENSICS - Cd'A Instrument # 62340

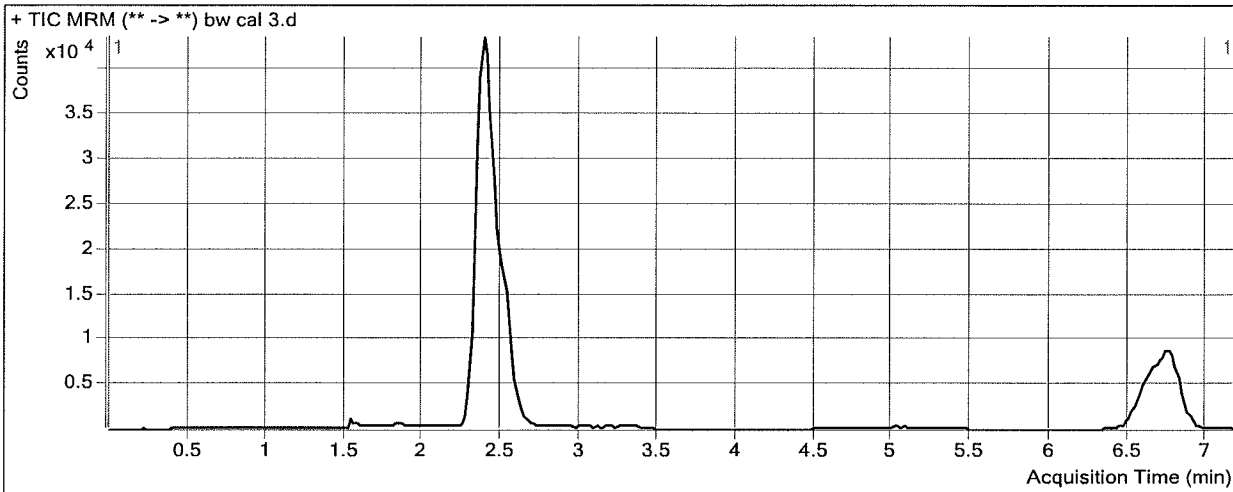
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-01-31 14:30 **Data File** bw cal 3.d
Sample Type Calibration **Sample Name** cal 3
Dilution 1 **Acq Method** Quant THC 2017.m
Position P2-C1 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.416	24239	288813	0.0839	9.2909
THC-COOH	THC-COOH-d9	2.546	12895	90369	0.1427	8.9897
THC	THC-d3	6.753	11733	119167	0.0985	9.4992

ISP FORENSICS - Cd'A Instrument # 62340

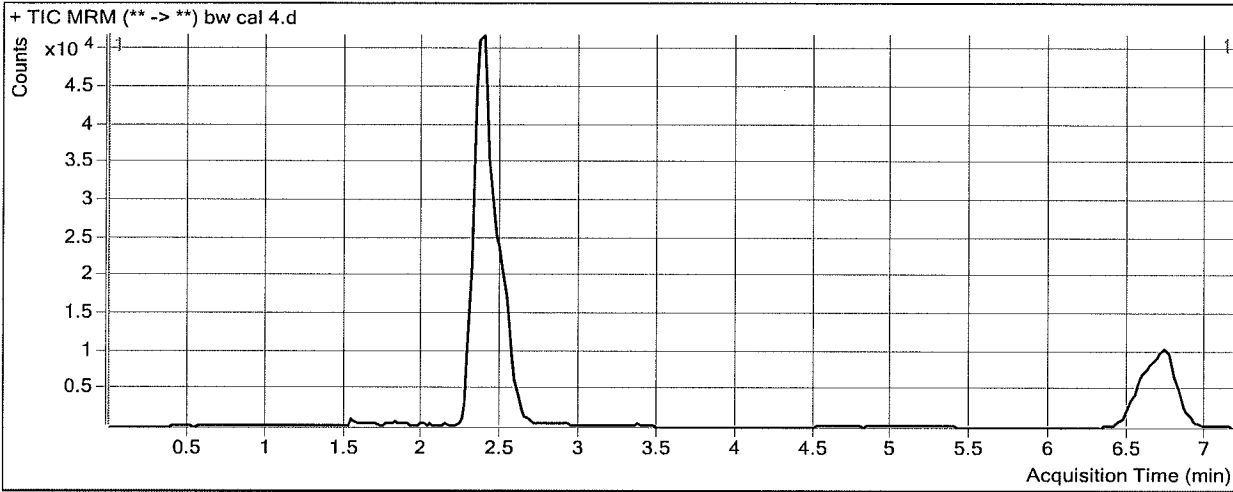
Cannabinoids Analysis Report

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Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-01-31 14:42 **Data File** bw cal 4.d
Sample Type Calibration **Sample Name** cal 4
Dilution 1 **Acq Method** Quant THC 2017.m
Position P2-D1 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.396	71306	300472	0.2373	25.4815
THC-COOH	THC-COOH-d9	2.526	38334	92872	0.4128	25.3657
THC	THC-d3	6.733	33533	123667	0.2712	25.3366

ISP

ISP FORENSICS - Cd'A Instrument # 62340

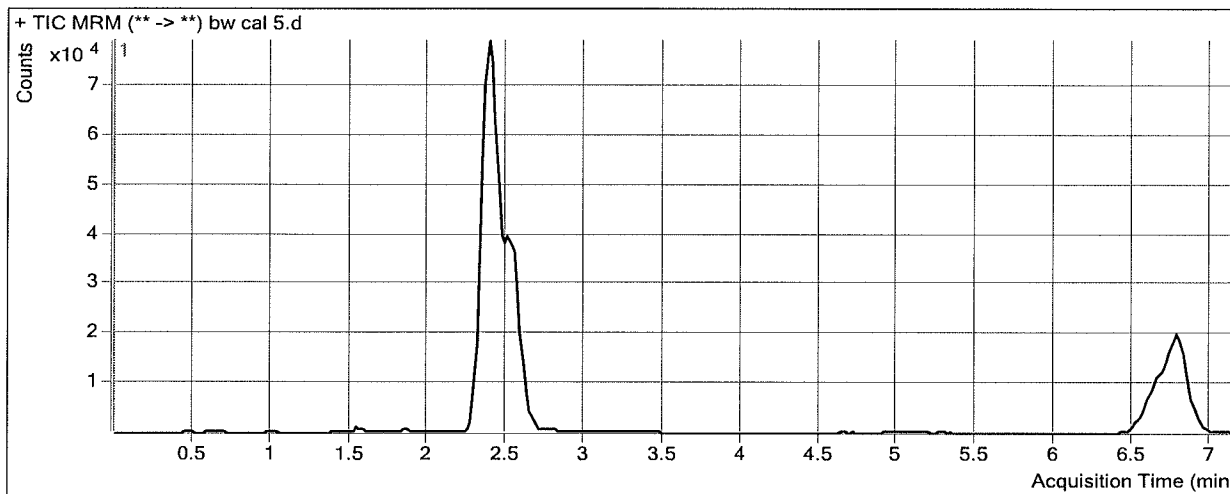
Cannabinoids Analysis Report

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Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-01-31 14:53 **Data File** bw cal 5.d
Sample Type Calibration **Sample Name** cal 5
Dilution 1 **Acq Method** Quant THC 2017.m
Position P2-E1 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.396	227277	318989	0.7125	75.6389
THC-COOH	THC-COOH-d9	2.546	126038	96729	1.3030	79.3448
THC	THC-d3	6.773	100877	131225	0.7687	70.9696

BW

ISP FORENSICS - Cd'A Instrument # 62340

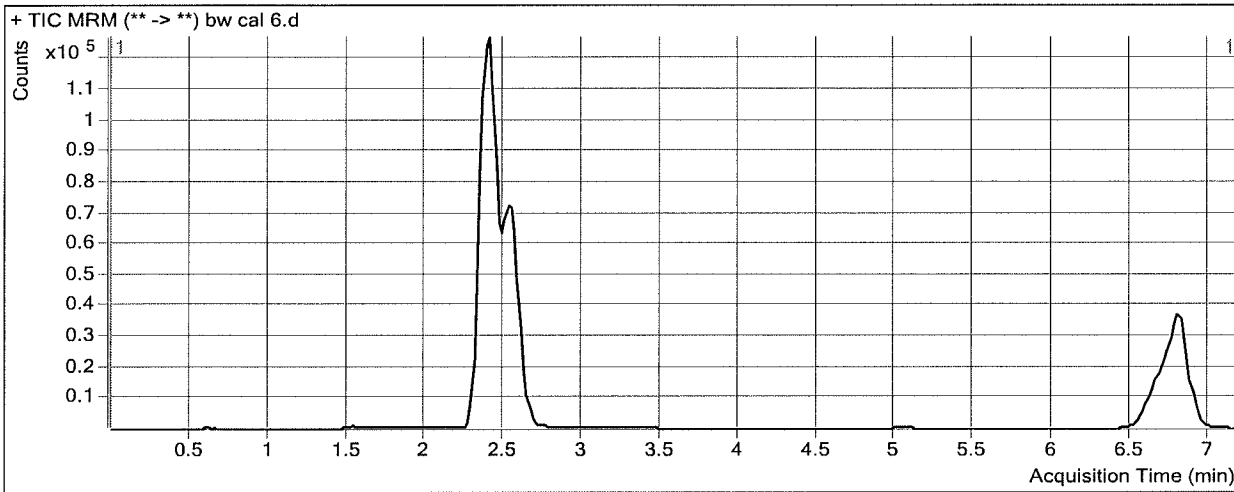
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-01-31 15:05 **Data File** bw cal 6.d
Sample Type Calibration **Sample Name** cal 6
Dilution 1 **Acq Method** Quant THC 2017.m
Position P2-F1 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.416	552778	334277	1.6537	174.9834
THC-COOH	THC-COOH-d9	2.546	288304	94063	3.0650	186.1846
THC	THC-d3	6.793	241125	128068	1.8828	173.1401

ISP FORENSICS - Cd'A Instrument # 62340

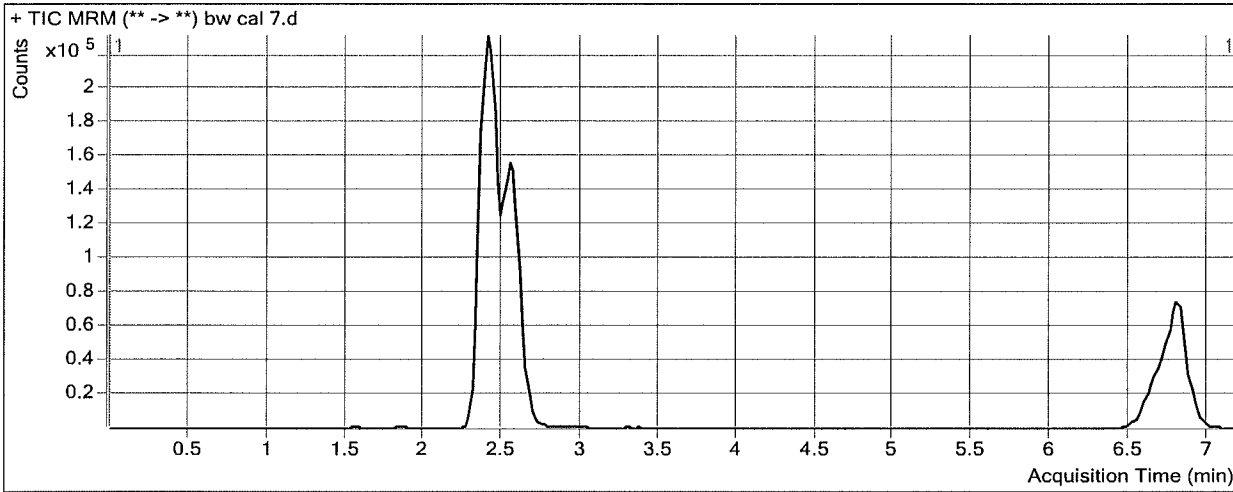
Cannabinoids Analysis Report

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Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-01-31 15:17 **Data File** bw cal 7.d
Sample Type Calibration **Sample Name** cal 7
Dilution 1 **Acq Method** Quant THC 2017.m
Position P2-G1 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.416	1283170	350121	3.6649	387.2844
THC-COOH	THC-COOH-d9	2.566	679721	97953	6.9393	421.0985
THC	THC-d3	6.793	570533	137656	4.1446	380.5730

ISP FORENSICS - Cd'A Instrument # 62340

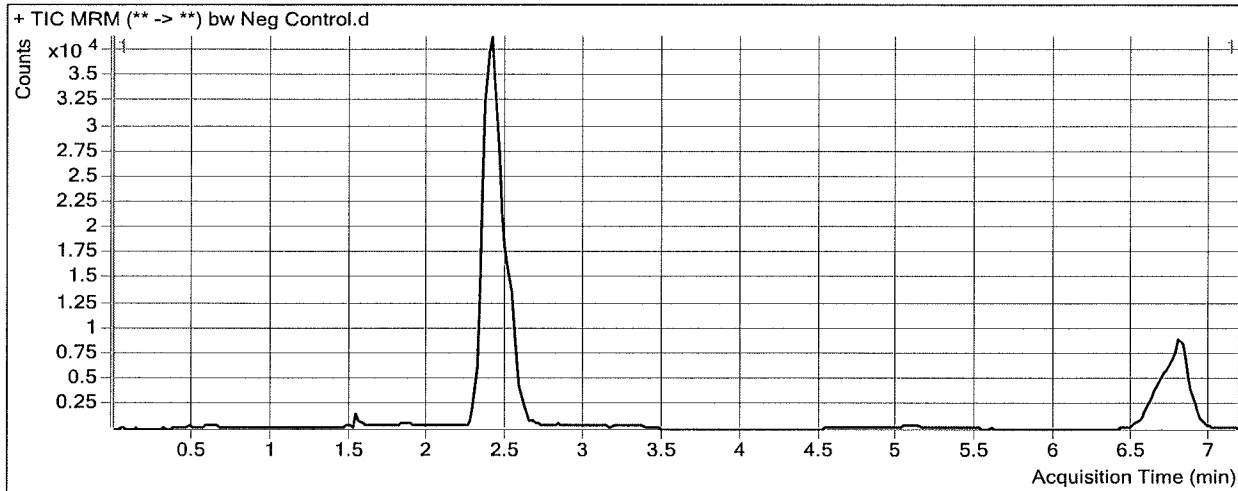
Cannabinoids Analysis Report

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Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-01-31 15:41 **Data File** bw Neg Control.d
Sample Type Sample **Sample Name** Neg Control
Dilution 1 **Acq Method** Quant THC 2017.m
Position P2-a2 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



BW

ISP FORENSICS - Cd'A Instrument # 62340

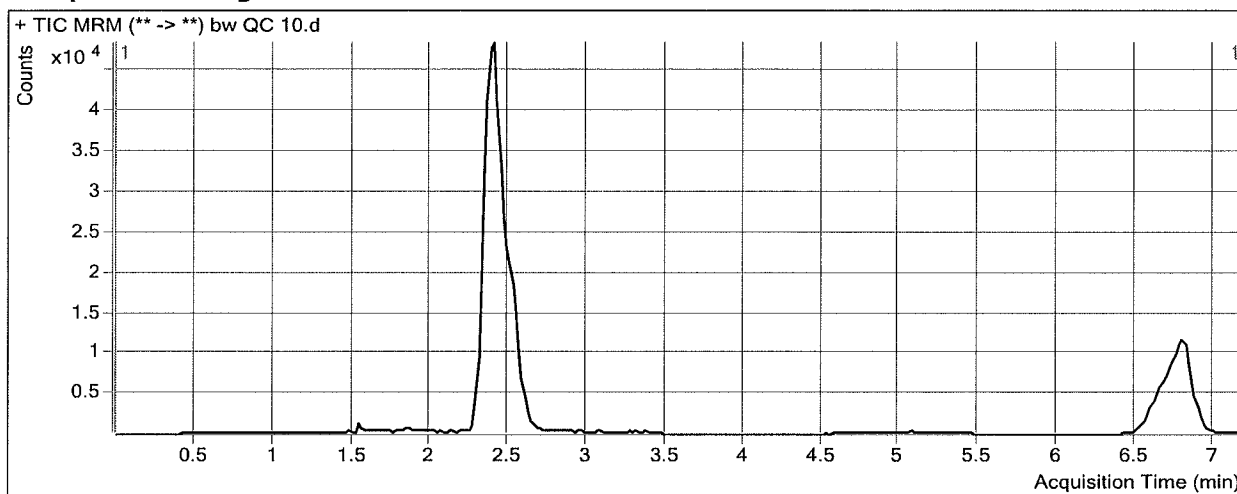
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-01-31 15:53 **Data File** bw QC 10.d
Sample Type QC **Sample Name** QC 10
Dilution 1 **Acq Method** Quant THC 2017.m
Position P2-H1 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.416	27773	323343	0.0859	9.4986
THC-COOH	THC-COOH-d9	2.546	14892	103161	0.1444	9.0910
THC	THC-d3	6.793	13300	131890	0.1008	9.7172

BW

ISP FORENSICS - Cd'A Instrument # 62340

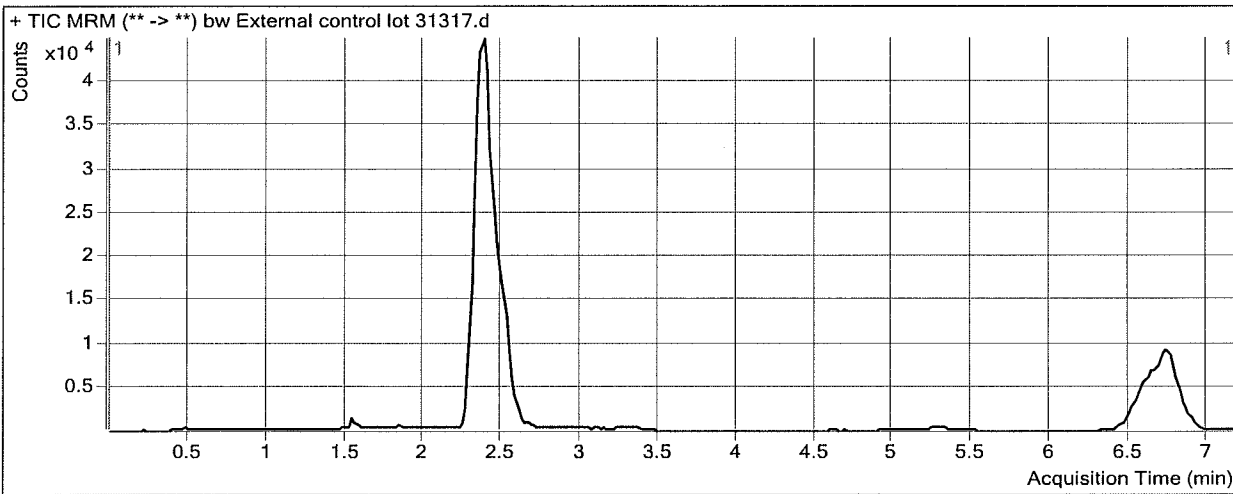
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-01-31 16:05 **Data File** bw External control lot 31317.d
Sample Type QC **Sample Name** External control lot 31317
Dilution 1 **Acq Method** Quant THC 2017.m
Position p2b2 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.396	31824	292443	0.1088	11.9188
THC-COOH	THC-COOH-d9	2.526	16231	89410	0.1815	11.3451
THC	THC-d3	6.753	12903	127022	0.1016	9.7852

ISP FORENSICS - Cd'A Instrument # 62340

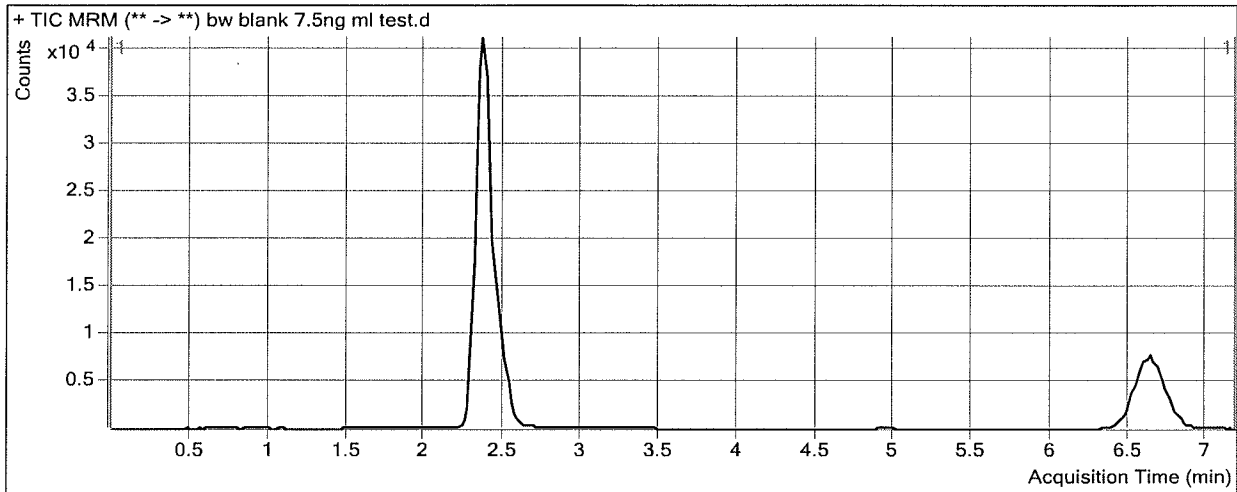
Cannabinoids Analysis Report

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Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-01 00:11 **Data File** bw blank 7.5ng ml test.d
Sample Type Sample **Sample Name** blank 7.5ng ml test
Dilution 1 **Acq Method** Quant THC 2017.m
Position Vial 2 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



ISP

ISP FORENSICS - Cd'A Instrument # 62340

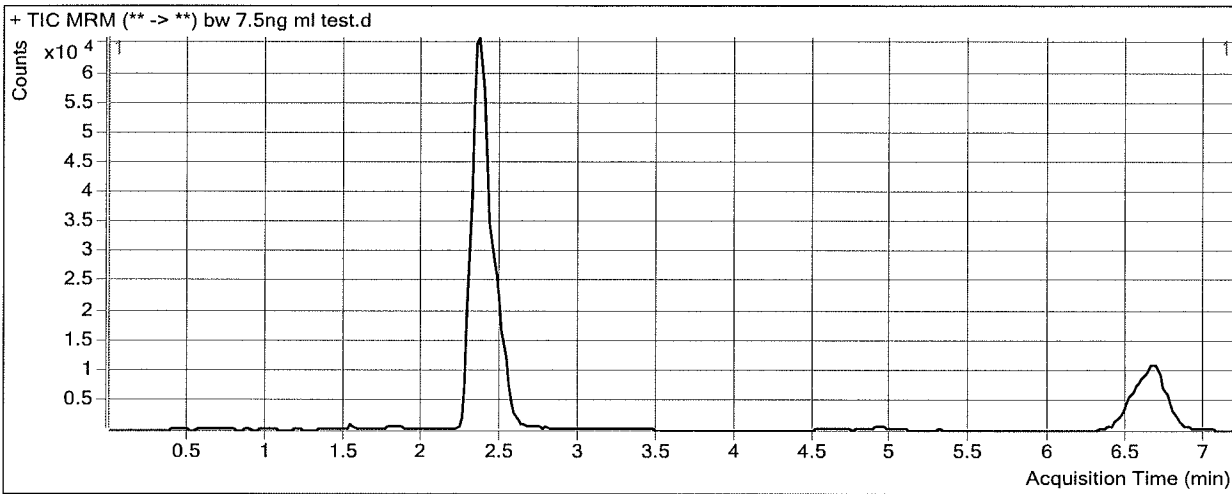
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-01 00:23 **Data File** bw 7.5ng ml test.d
Sample Type QC **Sample Name** 7.5ng ml test
Dilution 1 **Acq Method** Quant THC 2017.m
Position p2g4 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.376	31602	438330	0.0721	8.0422
THC-COOH	THC-COOH-d9	2.526	10697	122214	0.0875	5.6450
THC	THC-d3	6.693	11418	153417	0.0744	7.2950

* calc conc acceptable range 5.25ng/ml → 9.75ng/ml

ISP FORENSICS - Cd'A Instrument # 62340

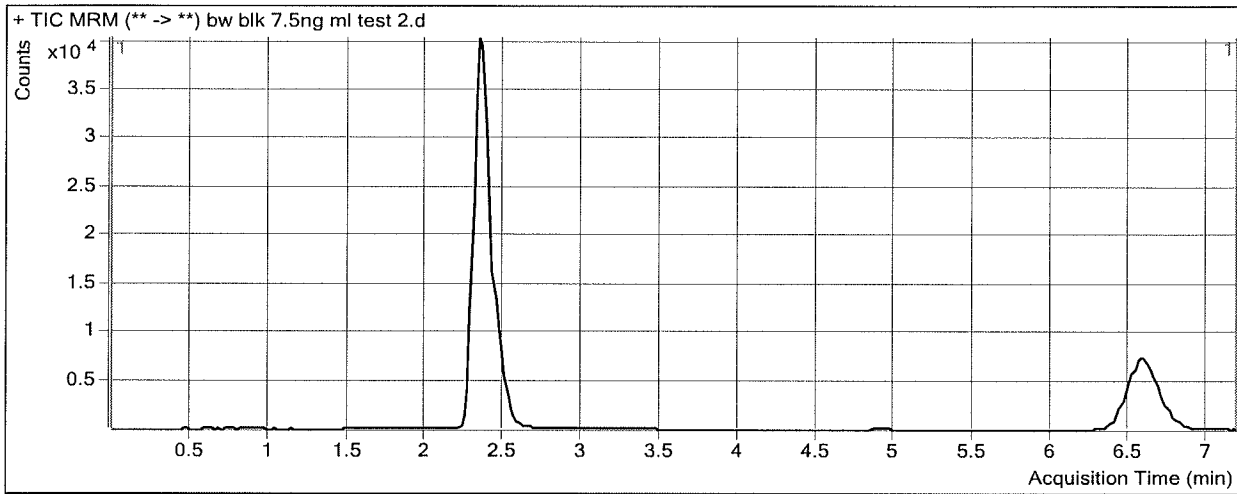
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-01 00:34 **Data File** bw blk 7.5ng ml test 2.d
Sample Type Sample **Sample Name** blk 7.5ng ml test 2
Dilution 1 **Acq Method** Quant THC 2017.m
Position Vial 2 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



[Handwritten signature]

ISP FORENSICS - Cd'A Instrument # 62340

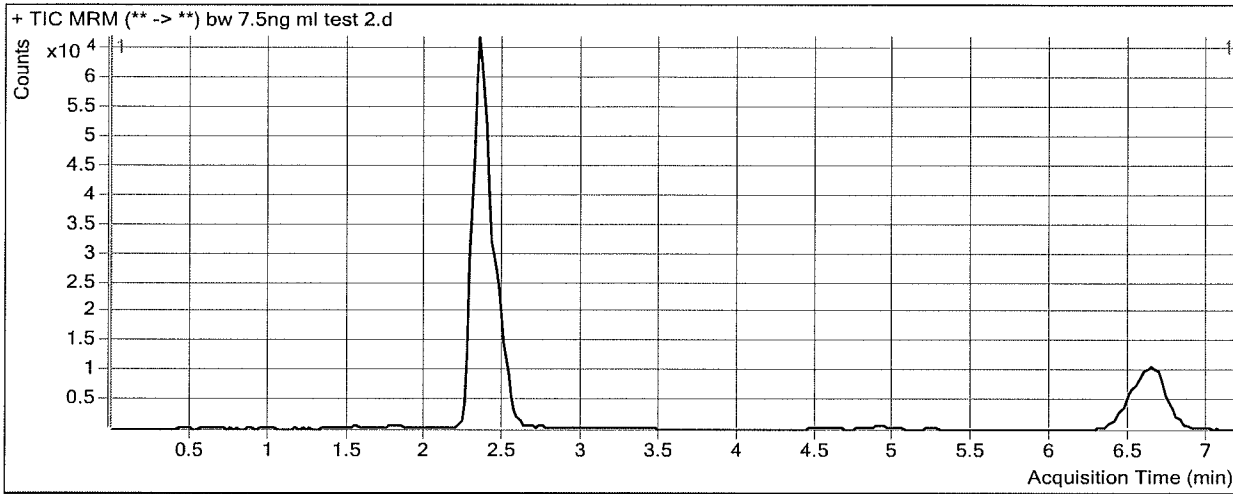
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-01 00:46 **Data File** bw 7.5ng ml test 2.d
Sample Type QC **Sample Name** 7.5ng ml test 2
Dilution 1 **Acq Method** Quant THC 2017.m
Position P2-H4 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.356	31040	434591	0.0714	7.9712
THC-COOH	THC-COOH-d9	2.506	13679	122951	0.1113	7.0839
THC	THC-d3	6.653	12002	155741	0.0771	7.5368

*calc conc acceptable range 5.25 - 9.75ng/mL

BW

ISP FORENSICS - Cd'A Instrument # 62340

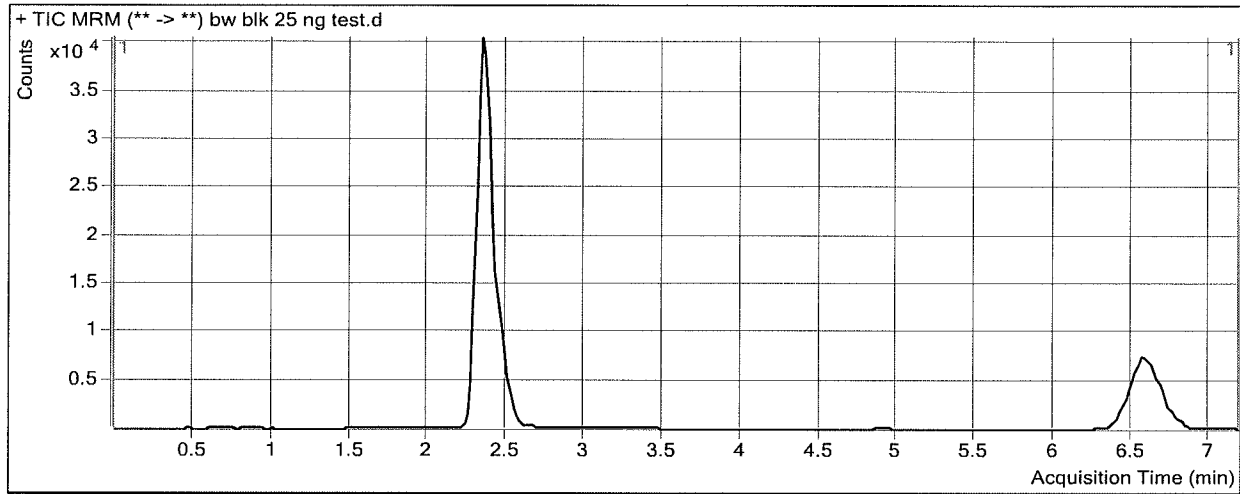
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-01 00:58 **Data File** bw blk 25 ng test.d
Sample Type Sample **Sample Name** blk 25 ng test
Dilution 1 **Acq Method** Quant THC 2017.m
Position Vial 2 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



BW

ISP FORENSICS - Cd'A Instrument # 62340

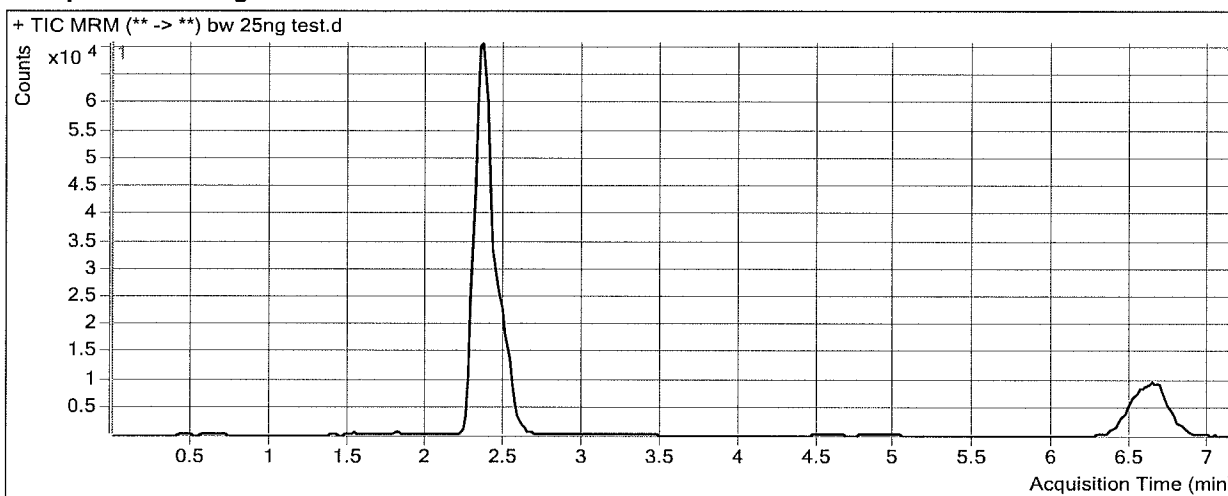
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-01 01:10 **Data File** bw 25ng test.d
Sample Type QC **Sample Name** 25ng test
Dilution 1 **Acq Method** Quant THC 2017.m
Position p2a5 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.376	97921	395455	0.2476	26.5692
THC-COOH	THC-COOH-d9	2.506	32665	99992	0.3267	20.1458
THC	THC-d3	6.673	32515	124006	0.2622	24.5159

BW

ISP FORENSICS - Cd'A Instrument # 62340

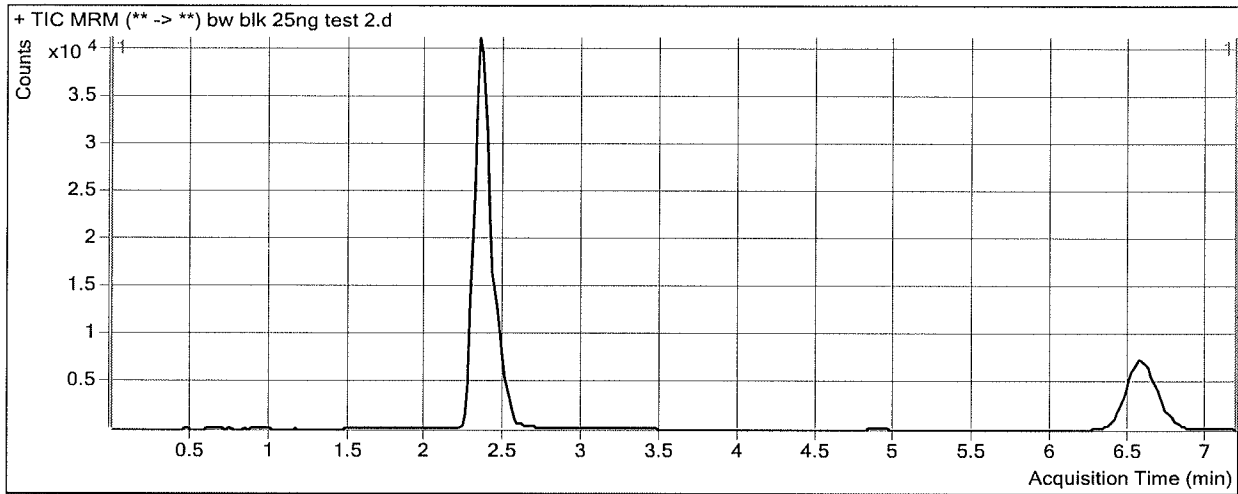
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-01 01:22 **Data File** bw blk 25ng test 2.d
Sample Type Sample **Sample Name** blk 25ng test 2
Dilution 1 **Acq Method** Quant THC 2017.m
Position Vial 2 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



ISP FORENSICS - Cd'A Instrument # 62340

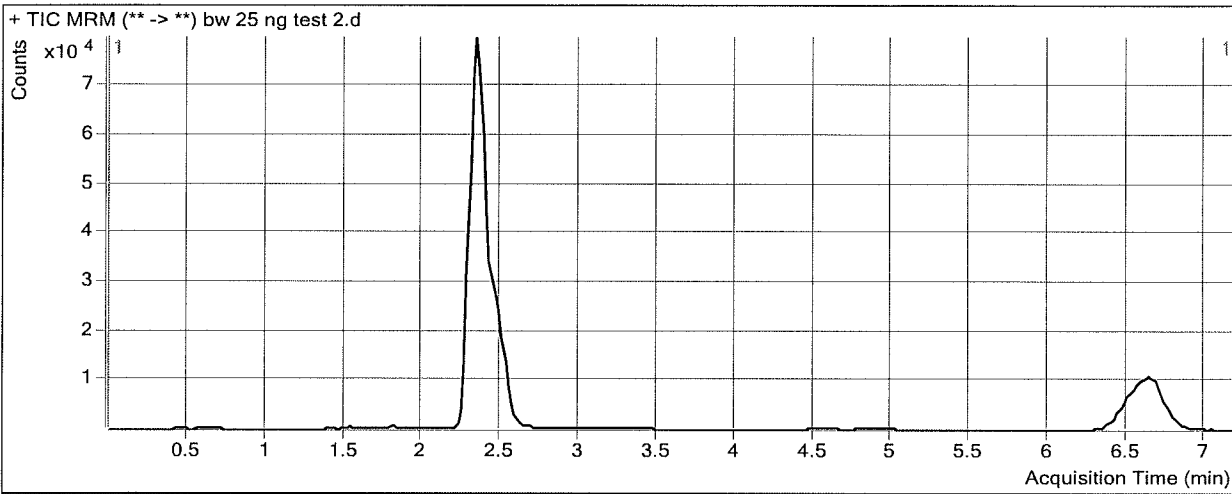
Cannabinoids Analysis Report

Batch Data Path D:\2017 Data\1-31-17 THC Quant\QuantResults\1-31-17 baw cann quant.batch.bin
Analysis Time 2/1/2017 3:09 PM **Analyst Name** ISP Tox
Report Time 2/1/2017 3:10 PM **Reporter Name** ISP Tox
Last Calib Update 2/1/2017 3:09 PM **Batch State** Processed

Analysis Info

Acq Time 2017-02-01 01:34 **Data File** bw 25 ng test 2.d
Sample Type QC **Sample Name** 25 ng test 2
Dilution 1 **Acq Method** Quant THC 2017.m
Position p2b5 **Sample Info**
Inj Vol -1 **Comment** AM 27 cannabinoid confirmation

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
THC-OH	THC-OH-d3	2.376	108341	426514	0.2540	27.2447
THC-COOH	THC-COOH-d9	2.506	37090	109295	0.3394	20.9144
THC	THC-d3	6.653	36001	135557	0.2656	24.8256