

TBI-FORENSIC SERVICES DIVISION PERFORMANCE VERIFICATION FORM

Instrument/Method to Verify:

Elsa Agilent GC 8890B ASAP Analytical IRD3 GC-FTIR (US2313A030/A10058-C17)

Check the appropriate box: New Validation ☐ Modification ☐ Performance Check ☒

Laboratory: NCL ☐ KCL ☒ JCL ☐ Unit: Forensic Chemistry

Based on training and competency, the following analyst(s) are authorized by the Technical Leader to participate in this study:

Name Carolyn Simpson Title SAFS II Initials CNS

Completed: Carolyn Simpson

Name _____ Title _____ Initials _____

Completed:

Name _____ Title _____ Initials _____

Completed:

Verification of final review:

Unit Supervisor: Michael Bleakley

Section Manager: Adam Gray
Adam Gray (Jun 26, 2023 14:57 EDT)

Unit Supervisor: Mollie Hood

Section Manager:

Unit Supervisor:

Section Manager:

Regional Administrator: Kelvin Woodby
Kelvin Woodby (Jun 26, 2023 15:03 EDT)

Regional Administrator:

Regional Administrator:

Quality Assurance Manager: Chad Johnson
Chad Johnson (Jun 26, 2023 14:36 CDT)

By signing below, I have verified this study meets all requirements and I deem this procedure/instrument fit for the intended use:

Technical Leader: Brett Trotter

All information must be submitted to the Quality Assurance Manager prior to the implementation of the procedure/instrument. If applicable, include training plan and competency testing schedule.

Performance check

Elsa

Agilent GC 8890B ASAP Analytical IRD3GC-FTIR (Serial
Number US2313A030/A10058-C17)

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Introduction

This performance check study is designed to demonstrate the effectiveness of the Agilent GC 8890B ASAP Analytical IRD3GC-FTIR (Serial Number US2313A030/A10058-C17) "Elsa" installed June 14th, 2023. This instrument being comparable in make and model to that of the previously installed Agilent GC 8890B ASAP Analytical IRD3GC-FTIR (Serial Number US21-43A010/A10051-C15) "Hagrid", will be evaluated on method functionality and previously determined acceptance criteria to determine suitability for the analysis of legally significant compounds.

The instrument performance check will consist of the following:

- Wavenumber accuracy
 - Method evaluation
- A. Wavenumber accuracy evaluation will be performed in compliance with Standard operating procedures 22.3 and 22.6
- B. Methods will be evaluated based on their effectiveness in the analysis of known Standards. The data obtained from these Standards will be compared to that of the Knoxville Standard library.

Materials

Column:

Agilent

J&W GC HP-1 30 meter, 0.32 ID, 1.00 μ m

(P/N: 19091Z-213 S/N: US21887334)

Liner:

Restek Split/ Splitless topaz straight with wool liner

Drug Standards

Diazepam Standard (Sigma 105F0451) in methanol

~ 1.5 mg/mL, expires 3/3/2024

4-Ethylethcathinone Standard (Cayman 0544648-12) in methanol

~ 1 mg/mL, expires 3/3/2024

ADB-FUBINACA Standard (Cayman 0468334-6) in chloroform

~ 1 mg/mL, expires 9/28/2023

Testosterone Propionate Standard (Sigma 034K0695) in methanol

~1mg/mL, expires 5/24/2024

4-Ethylethcathinone Standard ((Cayman 0544648-12) in methanol

~1mg/mL, expires 3/3/2024

P-MOX Standard Mix in chloroform

Phentermine (Sigma 074K1059)

Methamphetamine (Sigma 071K1580)

Xylazine (Cayman 0471462-19)

4-ANPP (Cayman 0540831-18)

Heroin (Cayman 0559235-10)

Para-Fluorofentanyl (Cayman 0541563-43)

Fentanyl (Cayman 0549959-44)

1~mg/mL, expires 6/12/2024

GCMS Standard Mix in chloroform

Pethidine (S.B. Penick 413-NMN-027)

Cocaine (Sigma 69H1240)

Hydrocodone (Cayman 0524561-22, bottle 1/2)

~1mg/mL, expires 5/19/2024

GC-IR Standard Mix in chloroform

Amphetamine (Sigma 79H0603), ~2.07mg/mL

Methamphetamine (Sigma 50H02161), ~2.14mg/mL

Phentermine (Sigma 074K1059), ~2.11mg/mL

expires 2/1/2024

Methods and Procedures

The following Standards were run with corresponding GC methods on Elsa (Agilent/ASAP Analytical IRD3GC-FTIR).

The IR method used for all for these is the IRD3 EXT method.

Performance verification and wavenumber evaluation

60TO270.M - GCIR Standard Mix

Performance Check of Methods

Autosample methods

60TO270.M - GC-IR Standard Mix

120TO270.M - 4-Ethylethcathinone Standard

120TO270(20MIN).M – P-MOX Standard Mix

200TO270.M - GCMS Standard Mix

200TO270(20MIN).M - Diazepam Standard

ISO270(30MIN).M – ADB-FUBINACA Standard

ISO270(20MIN).M - Testosterone Propionate Standard

ISO270(15MIN).M - P-MOX Standard Mix

Splitless autosample methods

SL60TO270.M- GC-IR Standard Mix

SL120TO270.M - 4-Ethylethcathinone Standard

SL120TO270(20MIN).M - P-MOX Standard Mix

SL200TO270.M - GCMS Standard Mix

SL200TO270(20MIN).M - Diazepam Standard

SLISO270(30MIN).M - ADB-FUBINACA Standard

SLISO270(20MIN).M - Testosterone Propionate Standard

SLISO270(15MIN).M - P-MOX Standard Mix

(Methods for "EISA" Agilent/ASAP Analytical IRD3 GC-FTIR)

Agilent GC:

Front Column: S/SL Injection Port with recommended HP-1 30 meter column, 0.32 column ID, and 1.0 um film thickness:

Stored Methods for AUTOSAMPLE SPLIT INJECTION

- 60TO270** Initial 60C degrees hold for 2 minutes ramped to 270C degrees at 70C/min. Constant carrier flow rate of 3.0 mL/min, Split ratio of 2.0, Split flow 6.0 mL/min, Pressure 13.827 psi, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 10.00 minutes.
- 120TO270** Initial 120C degrees hold for 1 minute ramped to 270C degrees at 70C/min. Constant carrier flow rate of 3.0 mL/min, Split ratio of 2.0, Split flow 6.0 mL/min, Pressure 17.01 psi, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 10.00 minutes.
- 120TO270(20MIN)** Initial 120C degrees hold for 1 minute ramped to 270C degrees at 70C/min. Constant carrier flow rate of 3.0 mL/min, Split ratio of 2.0, Split flow 6.0 mL/min, Pressure 17.01 psi, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 20.00 minutes.
- 200TO270** Initial 200C degrees hold for 1 minutes ramped to 270C degrees at 70C/min. Constant carrier flow rate of 3.0 mL/min, Split ratio of 2.0, Split flow 6.0 mL/min, Pressure 21.268 psi, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 10.00 minutes.
- 200TO270(20MIN)** Initial 200C degrees hold for 1 minute ramped to 270C degrees at 70C/min. Constant carrier flow rate of 3.0 mL/min, Split ratio of 2.0, Split flow of 6.0 mL/min, Pressure 21.268, Septum purge flow 3mL/min, Inlet temperature of 250C degrees. Total run time 20.00 minutes.
- ISO270(15MIN)** 270C degrees isothermal. Constant carrier flow rate of 3.0 mL/min, Split ratio of 2.0, Split flow 6.0 mL/min, Pressure 24.983 psi, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 15.00 minutes.
- ISO270(20MIN)** 270C degrees isothermal. Constant carrier flow rate of 3.0 mL/min, Split ratio of 2.0, Split flow 6.0 mL/min, Pressure 24.983 psi, Septum

purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 20.00 minutes.

ISO270(30MIN) 270C degrees isothermal. Constant carrier flow rate of 3.0 mL/min, Split ratio of 2.0, Split flow 6.0 mL/min, Pressure 24.983 psi, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 30.00 minutes.

Stored Methods for AUTOSAMPLE SPLITLESS INJECTION

SL60TO270 Initial 60C degrees hold for 2 minutes ramped to 270C degrees at 70C/min. Constant carrier flow rate of 3.0 mL/min, Splitless, Purge flow to Split Vent 15 mL/min, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 10.00 minutes.

SL120TO270 Initial 120C degrees hold for 1 minute ramped to 270C degrees at 70C/min. Constant carrier flow rate of 3.0 mL/min, Splitless, Purge flow to Split Vent 15 mL/min at 0.75 min, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 10.00 minutes.

SL120TO270(20MIN) Initial 120C degrees hold for 1 minute ramped to 270C degrees at 70C/min. Constant carrier flow rate of 3.0 mL/min, Splitless, Purge flow to Split Vent 15 mL/min at 0.75 min, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 20.00 minutes.

SL200TO270 Initial 200C degrees hold for 1 minutes ramped to 270C degrees at 70C/min. Constant carrier flow rate of 3.0 mL/min, Splitless, Purge flow to Split Vent 15 mL/min at 0.75 min, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 10.00 minutes.

SL200TO270(20MIN) Initial 200C degrees hold for 1 minute ramped to 270C degrees at 70C/min. Constant carrier flow rate of 3.0 mL/min, Splitless, Purge flow to Split Vent 15 mL/min at 0.75 min, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 20.00 minutes.

SLISO270(15MIN) 270C degrees isothermal. Constant carrier flow rate of 3.0 mL/min, Splitless, Purge flow to Split Vent 15 mL/min at 0.75 min, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 15.00 minutes.

SLISO270(20MIN) 270C degrees isothermal. Constant carrier flow rate of 3.0 mL/min, Splitless, Purge flow to Split Vent 15 mL/min at 0.75 min, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 20.00 minutes.

SLISO270(30MIN) 270C degrees isothermal. Constant carrier flow rate of 3.0 mL/min, Splitless, Purge flow to Split Vent 15 mL/min at 0.75 min, Septum purge flow 3 mL/min, Inlet temperature of 250C degrees. Total run time 30.00 minutes.

ASAP Analytical IRD3 (FTIR):

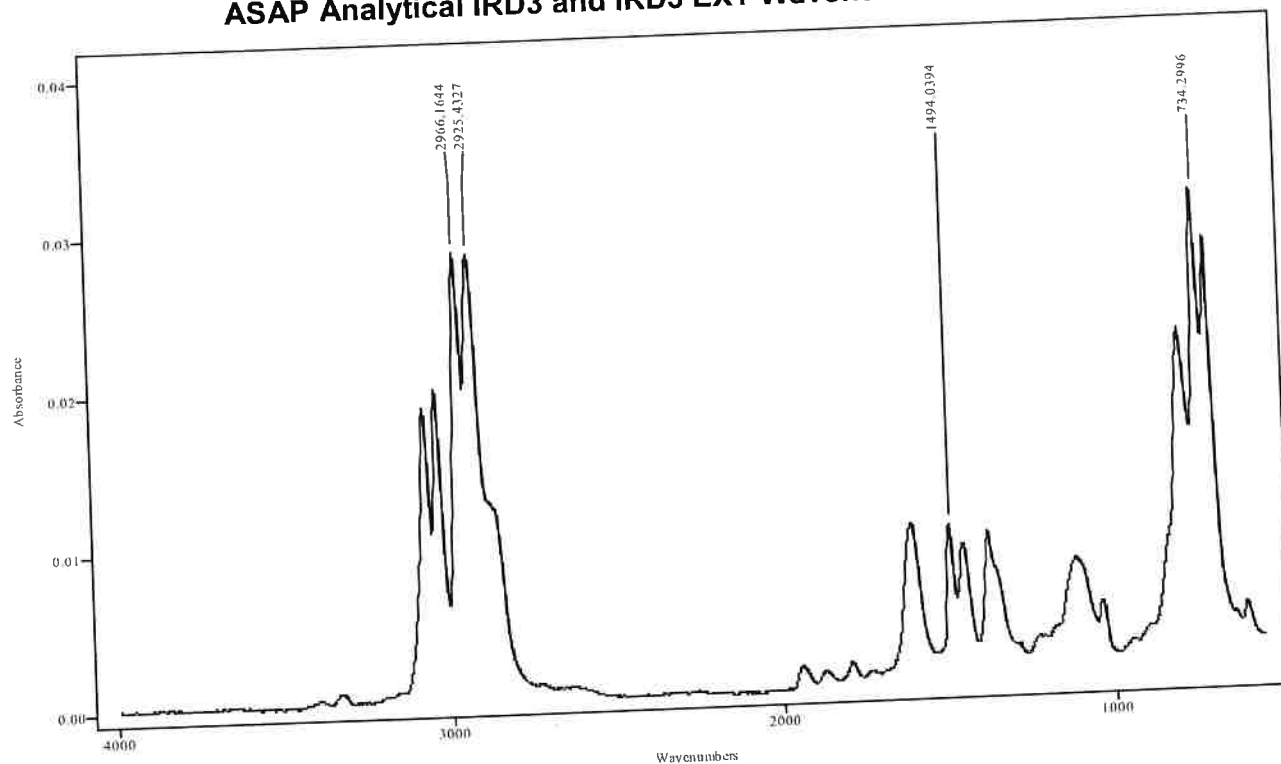
IRD3 EXT Resolution of 8 cm-1 with a Co-Add (Scans) of 2, Background Scans (Collecting Basis Set→Basis Set File 10 times with 6 scans each = 60 Scans) prior to each sample, set at Auto Calculate Gain (typically 1-2), Frequency range 550-4000 cm-1, Apodization: Triangle, Phase Correction: Mertz, Zero Fill: 1, Flow Cell, Transfer Lines A & B at 280C, Smoothing Factor: OFF, Length 100, Symmetry: 2, Offset 60, Source Power at 22, and Laser Wavelength of 0.63299.

SHUTDOWN Resolution of 8 cm-1 with a Co-Add (Scans) of 2, Background Scans (Collecting Basis Set→Basis Set File 10 times with 6 scans each = 60 Scans) prior to each sample, set at Auto Calculate Gain (typically 1-2), Frequency range 800-4000 cm-1, Apodization: Triangle, Phase Correction: Mertz, Zero Fill: 1, Flow Cell at 280C, Transfer Lines A & B at 230C, Smoothing Factor: OFF, Length 100, Symmetry: 2, Offset 60, Source Power Off, and Laser Wavelength of 0.63299.

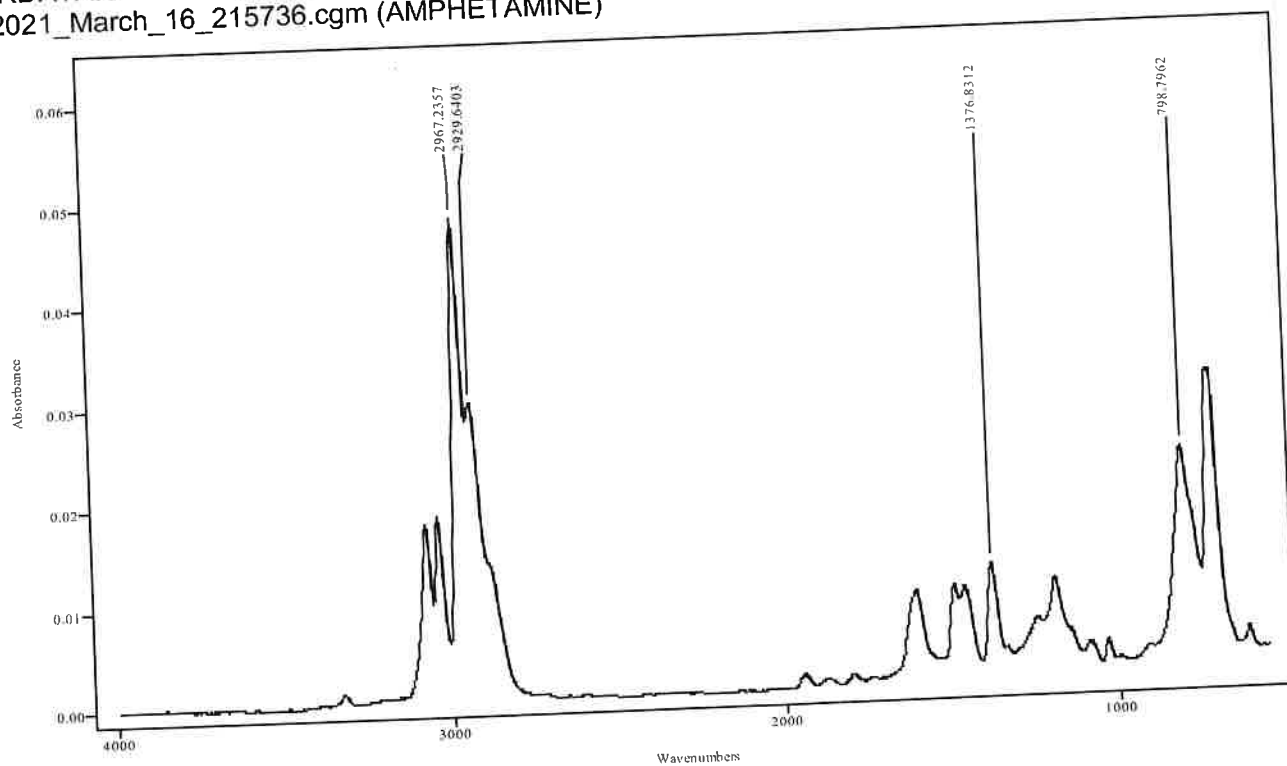
DO NOT use "Default" method for IRD method in casework.

Instrument Name: Eisa Initials and Date: cur 6/20/23

ASAP Analytical IRD3 and IRD3 EXT Wavenumber Evaluation

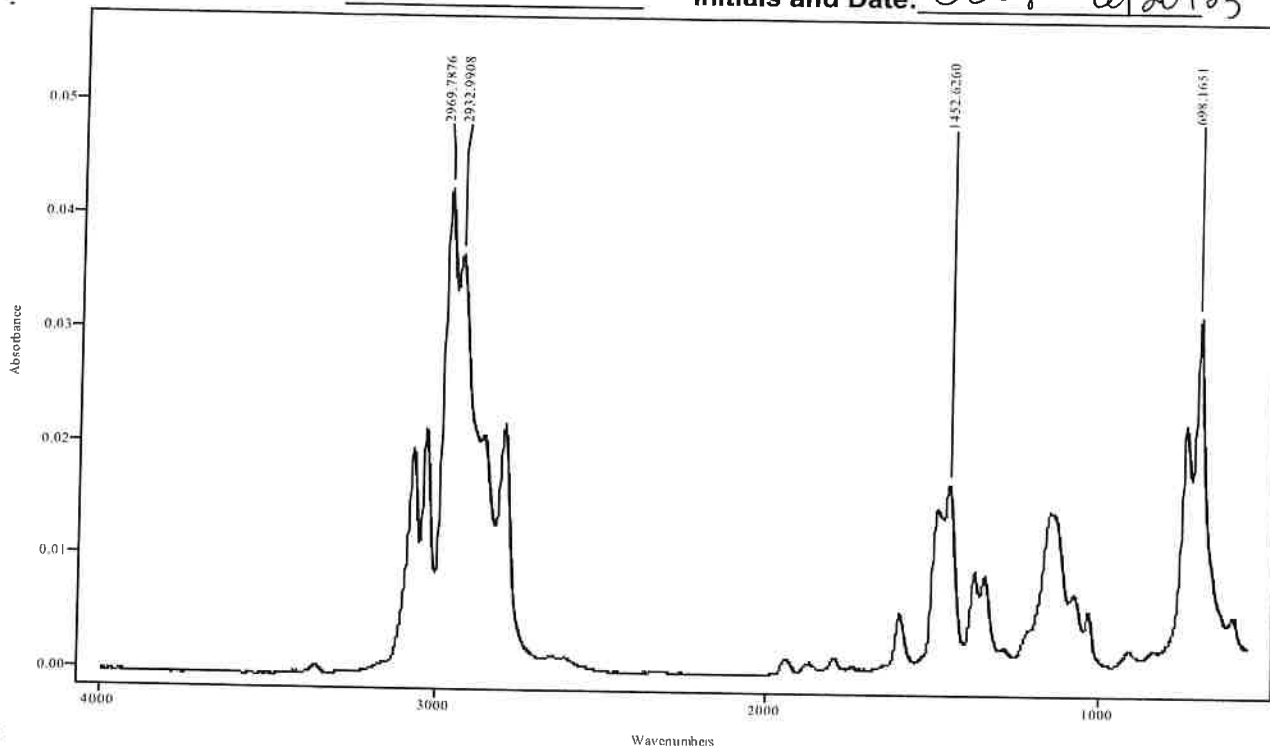


IRDATA.SPC: 4.72 minutes: AVE (4.71: 4.73) Ref. (4.41: 4.68) of GC-IR TEST SOL EXT
2021_March_16_215736.cgm (AMPHETAMINE)



IRDATA.SPC: 4.87 minutes: AVE (4.84: 4.88) Ref. (4.41: 4.68) of GC-IR TEST SOL EXT
2021_March_16_215736.cgm (PHENTERMINE)

Version #: 3.0

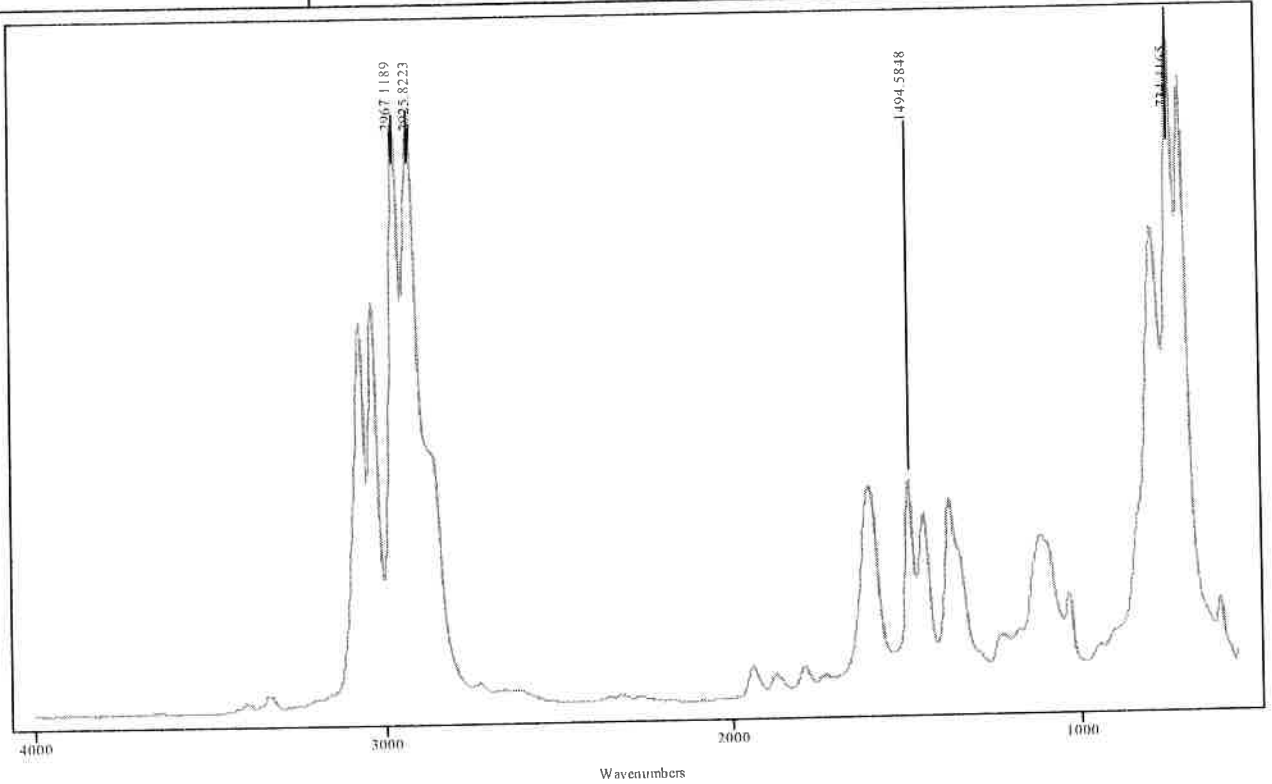
Instrument Name: ElsaInitials and Date: cur 6/20/23

IRDATA.SPC: 4.93 minutes: AVE (4.92: 4.95) Ref. (4.41: 4.68) of GC-IR TEST SOL EXT
 2021_March_16_215736.cgm (METHAMPHETAMINE)

Compound		Expected	Measured	Criteria	Result
(IRD3 EXT) Amphetamine	Peak 1	734.2996	734.4165	+/- 8 cm-1	Pass ☒
	Peak 2	1494.0394	1494.5848	+/- 8 cm-1	Pass ☒
	Peak 3	2925.4327	2925.8223	+/- 8 cm-1	Pass ☒
	Peak 4	2966.1644	2967.1189	+/- 8 cm-1	Pass ☒
(IRD3 EXT) Phentermine	Peak 1	798.7962	798.6404	+/- 8 cm-1	Pass ☒
	Peak 2	1376.8312	1377.1818	+/- 8 cm-1	Pass ☒
	Peak 3	2929.6403	2929.9909	+/- 8 cm-1	Pass ☒
	Peak 4	2967.2357	2967.8201	+/- 8 cm-1	Pass ☒
(IRD3 EXT) Methamphetamine	Peak 1	698.1651	698.2041	+/- 8 cm-1	Pass ☒
	Peak 2	1452.6260	1453.3467	+/- 8 cm-1	Pass ☒
	Peak 3	2932.9908	2933.1076	+/- 8 cm-1	Pass ☒
	Peak 4	2969.7876	2970.2940	+/- 8 cm-1	Pass ☒

Manual Peak Pick Results

Sample Filename	IRDATA.SPC
File Title	4.89 minutes: AVE (4.88: 4.91) Ref. (4.58: 4.86) of CNS062023GCIRSTD 2023_June_20_144211.cgm
Date	Thu Jun 22 12:00:01 2023 Elsa, GC method:60TO270, IRD3 EXT, in CHCL3

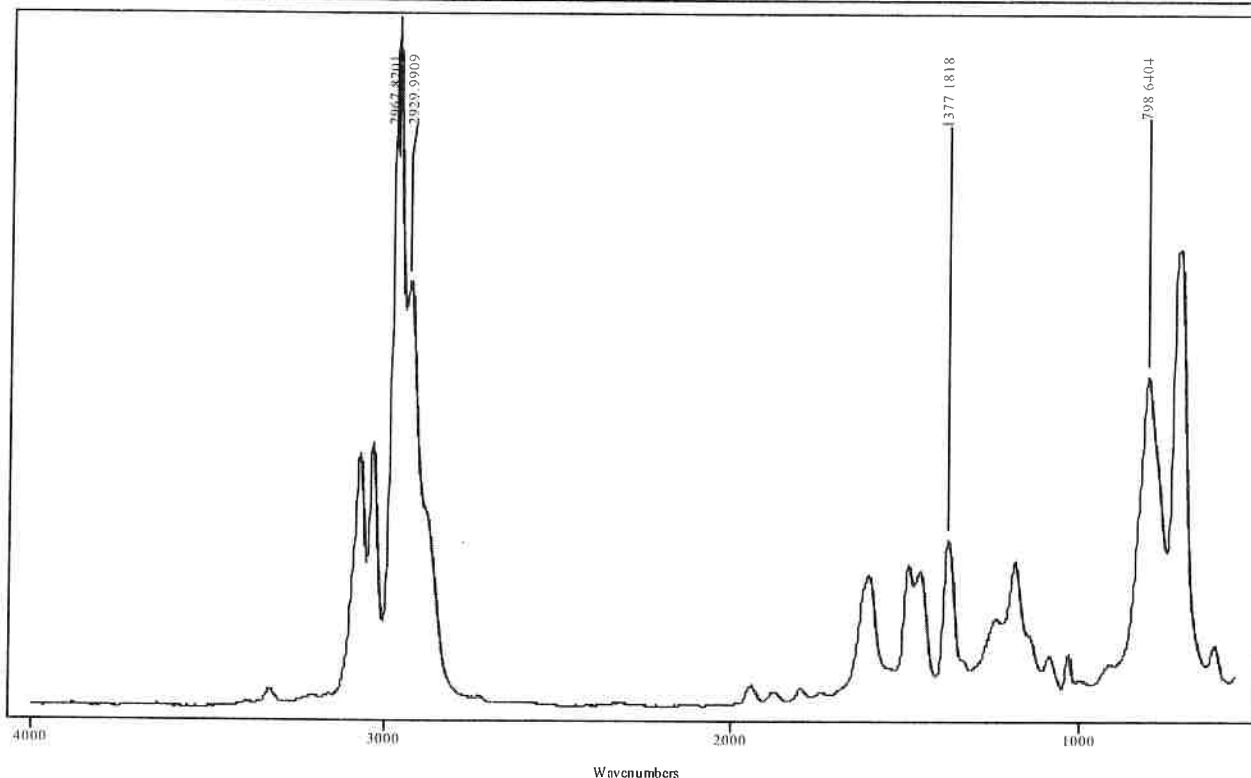


IRDATA.SPC: 4.89 minutes: AVE (4.88: 4.91) Ref. (4.58: 4.86) of CNS062023GCIRSTD 2023_June_20_144211.cgm amphetamine

Filename	Peak At	Peak Height
IRDATA.SPC [0]	734.4165	0.0338
IRDATA.SPC [0]	1494.5848	0.0108
IRDATA.SPC [0]	2925.8223	0.0295
IRDATA.SPC [0]	2967.1189	0.0293

Manual Peak Pick Results

Sample Filename	IRDATA.SPC
File Title	5.03 minutes: AVE (5.02: 5.05) Ref. (4.58: 4.86) of CNS062023GCIRSTD 2023_June_20_144211.cgm
Date	Thu Jun 22 12:02:46 2023 Elsa, GC method:60TO270, IRD3 EXT, in CHCL3

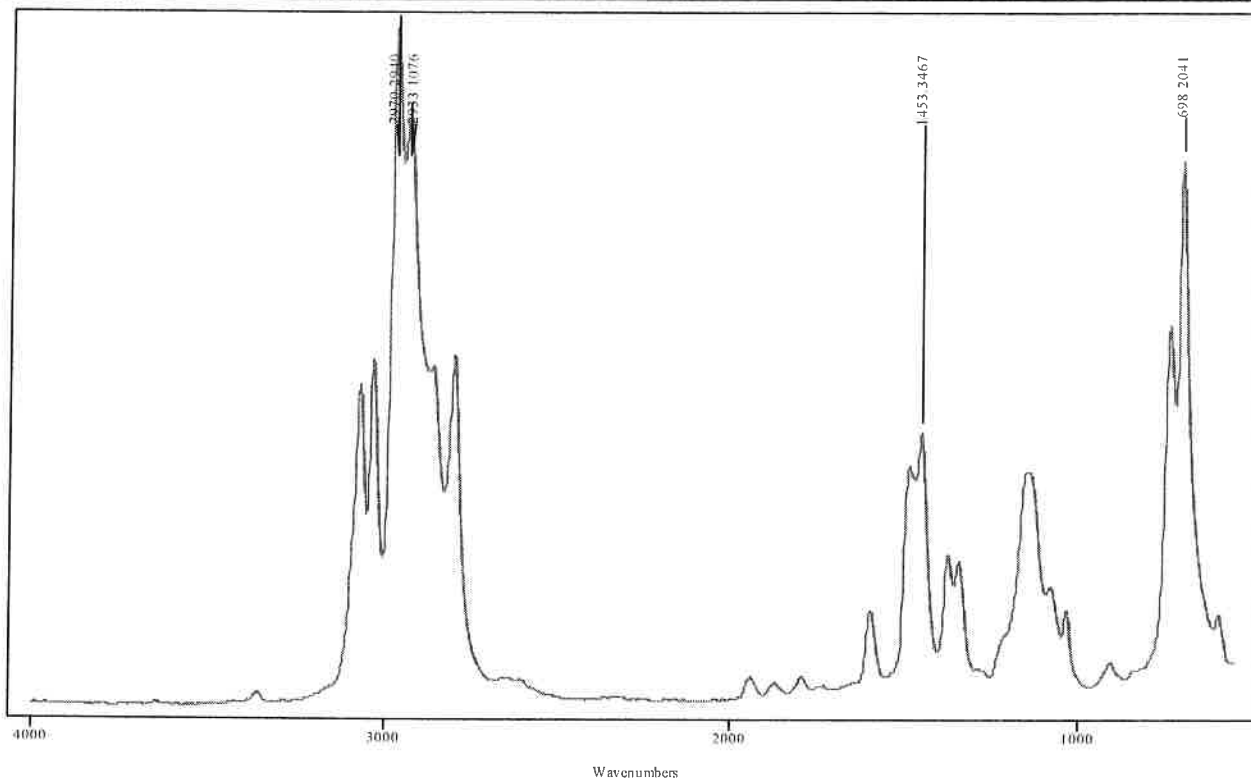


IRDATA.SPC: 5.03 minutes: AVE (5.02: 5.05) Ref. (4.58: 4.86) of CNS062023GCIRSTD 2023_June_20_144211.cgm phentermine

Filename	Peak At	Peak Height
IRDATA.SPC [0]	798.6404	0.0267
IRDATA.SPC [0]	1377.1818	0.0133
IRDATA.SPC [0]	2929.9909	0.0343
IRDATA.SPC [0]	2967.8201	0.0549

Manual Peak Pick Results

Sample Filename	IRDATA.SPC
File Title	5.10 minutes: AVE (5.08: 5.12) Ref. (4.58: 4.86) of CNS062023GCIRSTD 2023_June_20_144211.cgm
Date	Thu Jun 22 12:05:05 2023 Elsa, GC method:60TO270, IRD3 EXT, in CHCL3



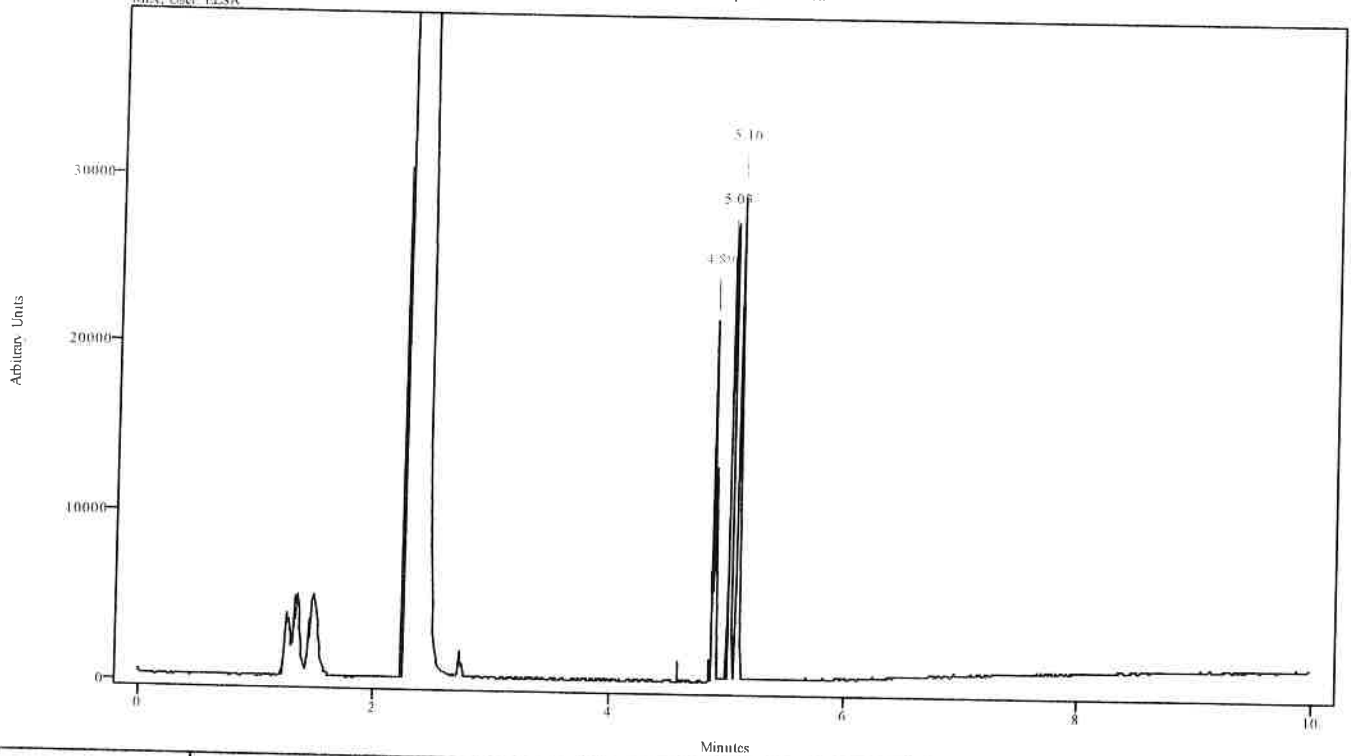
IRDATA.SPC: 5.10 minutes: AVE (5.08: 5.12) Ref. (4.58: 4.86) of CNS062023GCIRSTD 2023_June_20_144211.cgm methamphetamine

Filename	Peak At	Peak Height
IRDATA.SPC [0]	698.2041	0.0377
IRDATA.SPC [0]	1453.3467	0.0187
IRDATA.SPC [0]	2933.1076	0.0409
IRDATA.SPC [0]	2970.2940	0.0471

IRD Data Analysis Report

Data Filename	CNS062023GCIRSTD 2023_June_20_144211
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	3
Sample Name	GCIR STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 14:55:49 2023
Date Processed	Thu Jun 22 12:07:26 2023

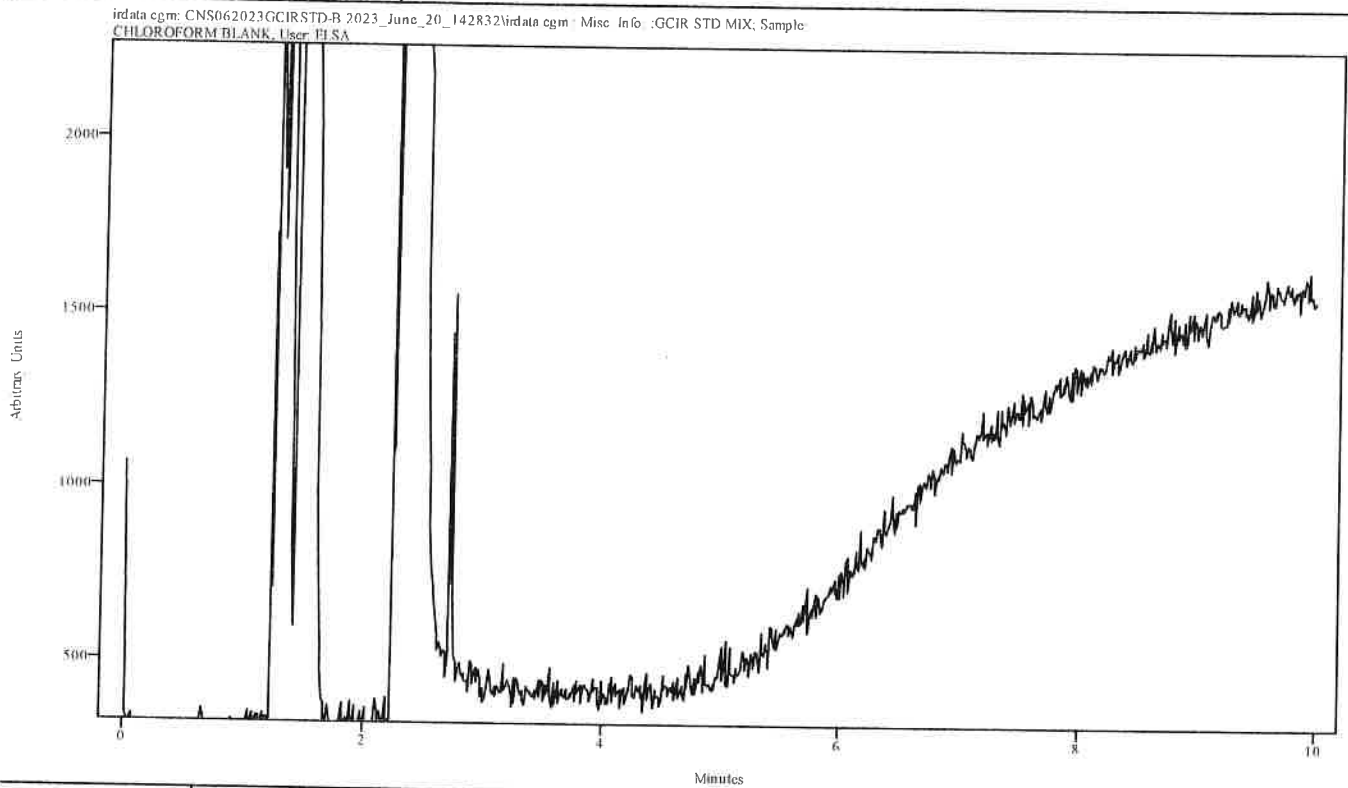
irdata.cgm: CNS062023GCIRSTD 2023_June_20_144211 Virdata.cgm: Misc Info: CHCl3: Sample: GCIR STD MIX, User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
4.875	4.913	0.034	4.582	4.856
5.018	5.050	0.034	4.582	4.856
5.084	5.118	0.034	4.582	4.856

IRD Data Analysis Report

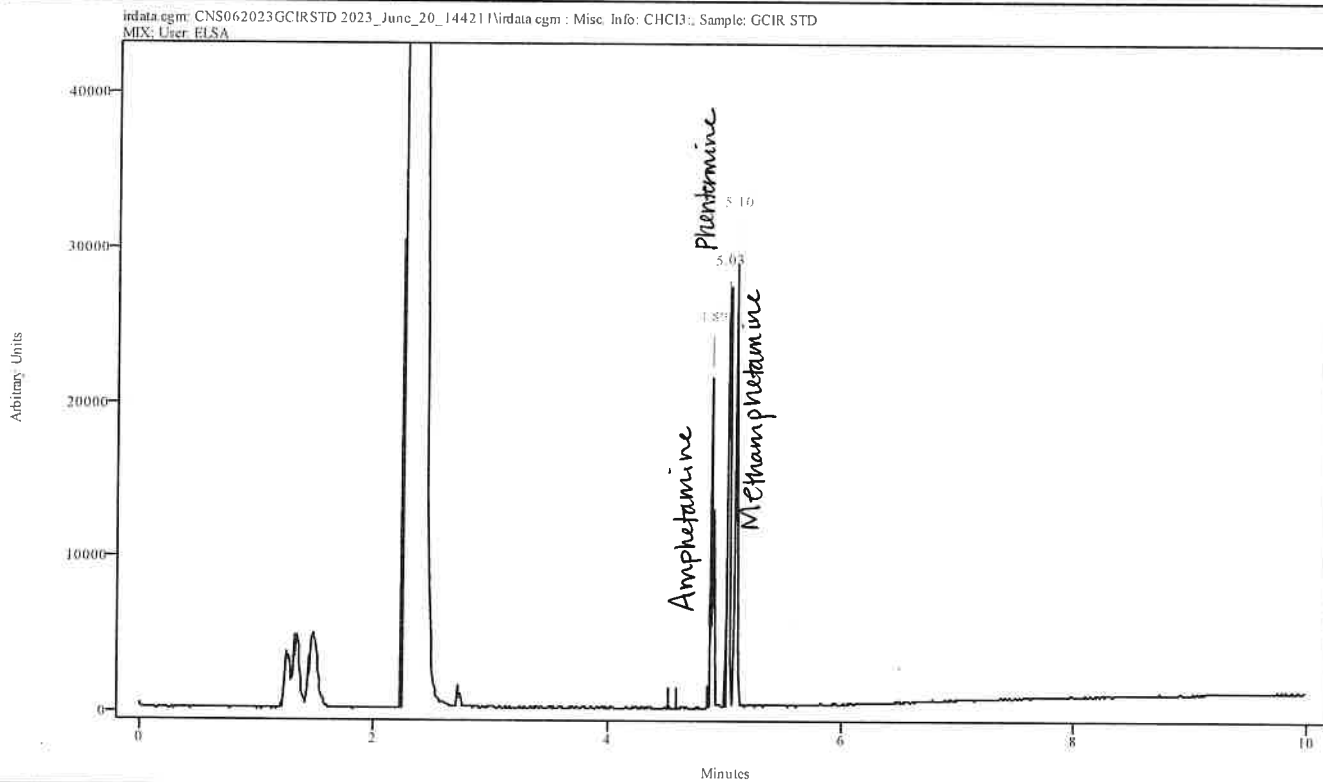
Data Filename	CNS062023GCIRSTD-B 2023_June_20_142832
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	2
Sample Name	CHLOROFORM BLANK
Misc. Info	:GCIR STD MIX
User ID	ELSA
Injection Time	Tue Jun 20 14:42:11 2023
Date Processed	Thu Jun 22 12:08:14 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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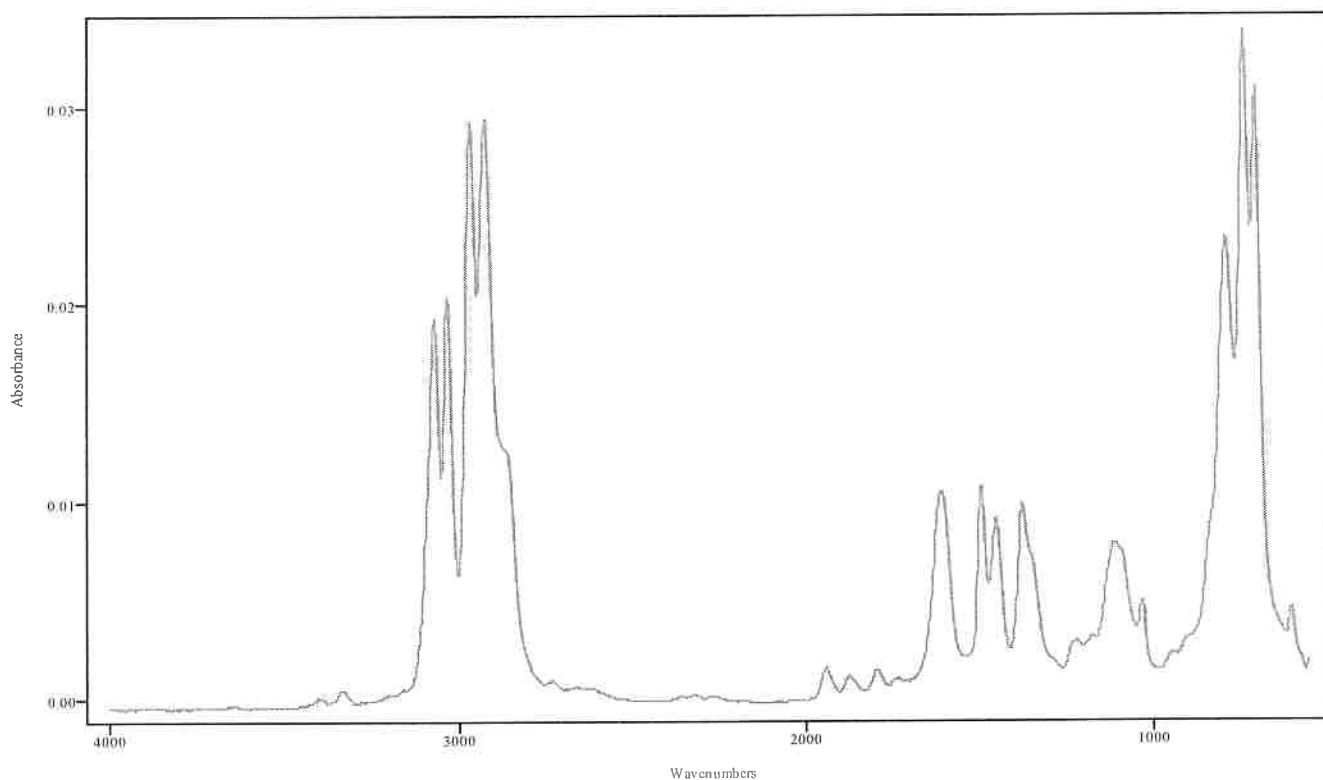
IRD Data Analysis Report

Data Filename	CNS062023GCIRSTD 2023_June_20_144211
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	3
Sample Name	GCIR STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 14:55:49 2023
Date Processed	Tue Jun 20 15:27:21 2023



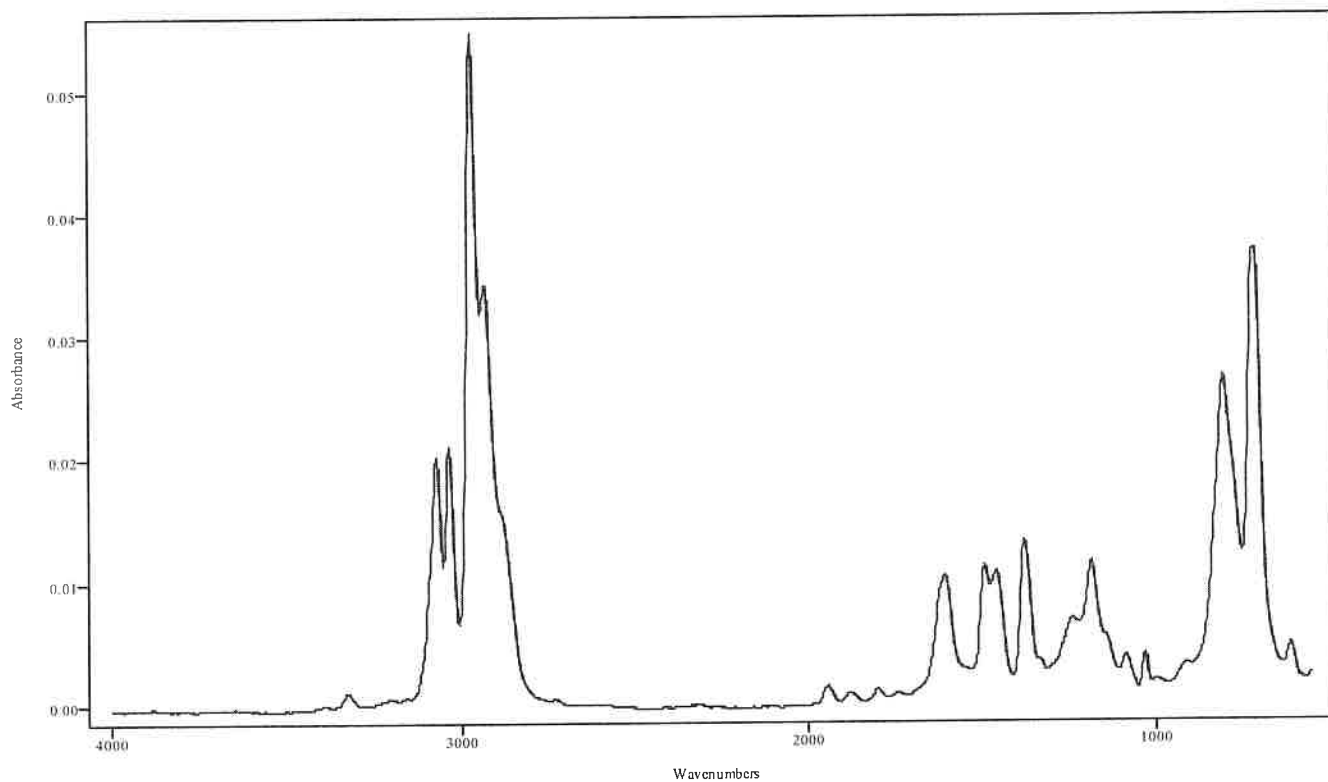
Peak Start	Peak End	Peak Width	Reference Start	Reference End
4.876	4.913	0.034	4.582	4.856
5.016	5.050	0.034	4.511	4.856
5.082	5.118	0.034	4.582	4.856

Data Filename	CNS062023GCIRSTD 2023_June_20_144211
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	3
Sample Name	GCIR STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 14:55:49 2023
Date Processed	Tue Jun 20 15:27:21 2023



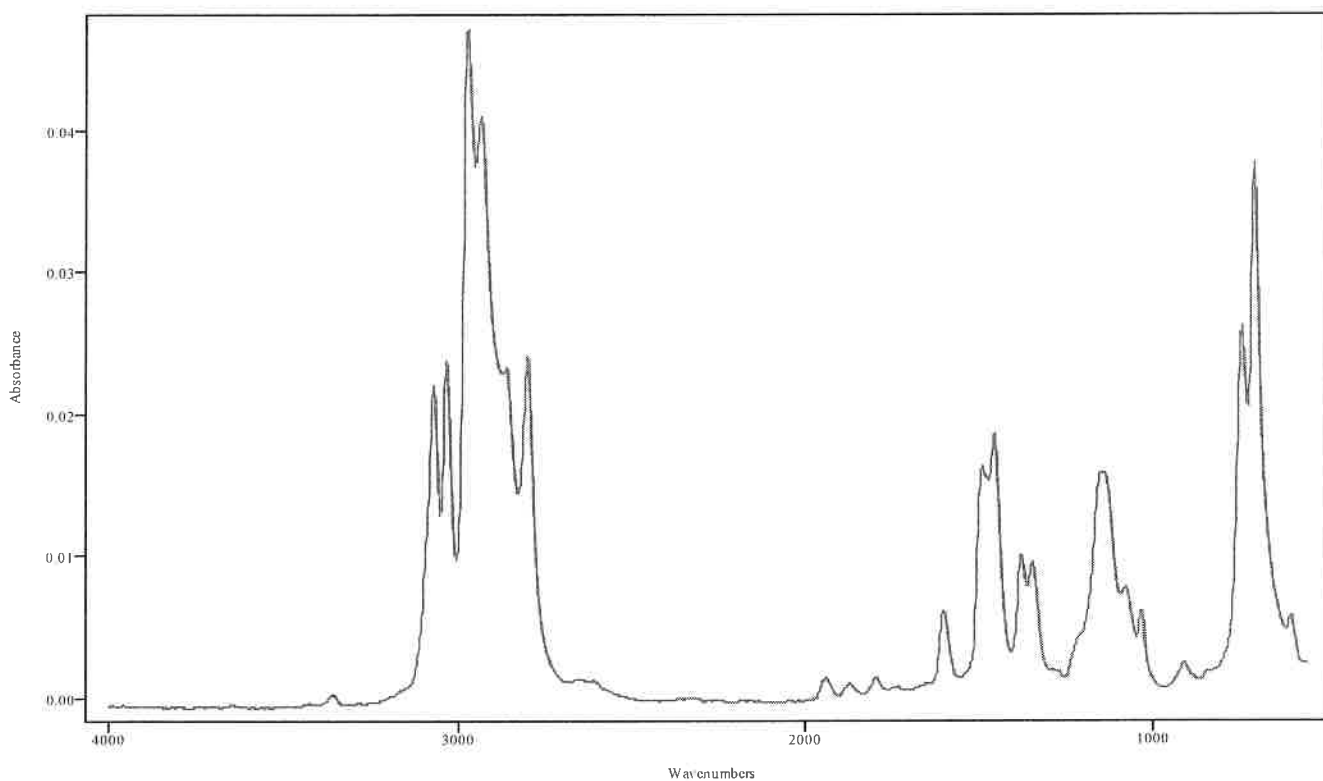
IRDATA.SPC: 4.89 minutes: AVE (4.88: 4.91) Ref. (4.58: 4.86) of CNS062023GCIRSTD 2023_June_20_144211.cgm **AMPHETAMINE**

Data Filename	CNS062023GCIRSTD 2023_June_20_144211
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	3
Sample Name	GCIR STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 14:55:49 2023
Date Processed	Tue Jun 20 15:27:21 2023



IRDATA.SPC: 5.03 minutes: AVE (5.02: 5.05) Ref. (4.51: 4.86) of CNS062023GCIRSTD
2023_June_20_144211.cgm **PHENTERMINE**

Data Filename	CNS062023GCIRSTD 2023_June_20_144211
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	3
Sample Name	GCIR STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 14:55:49 2023
Date Processed	Tue Jun 20 15:27:21 2023

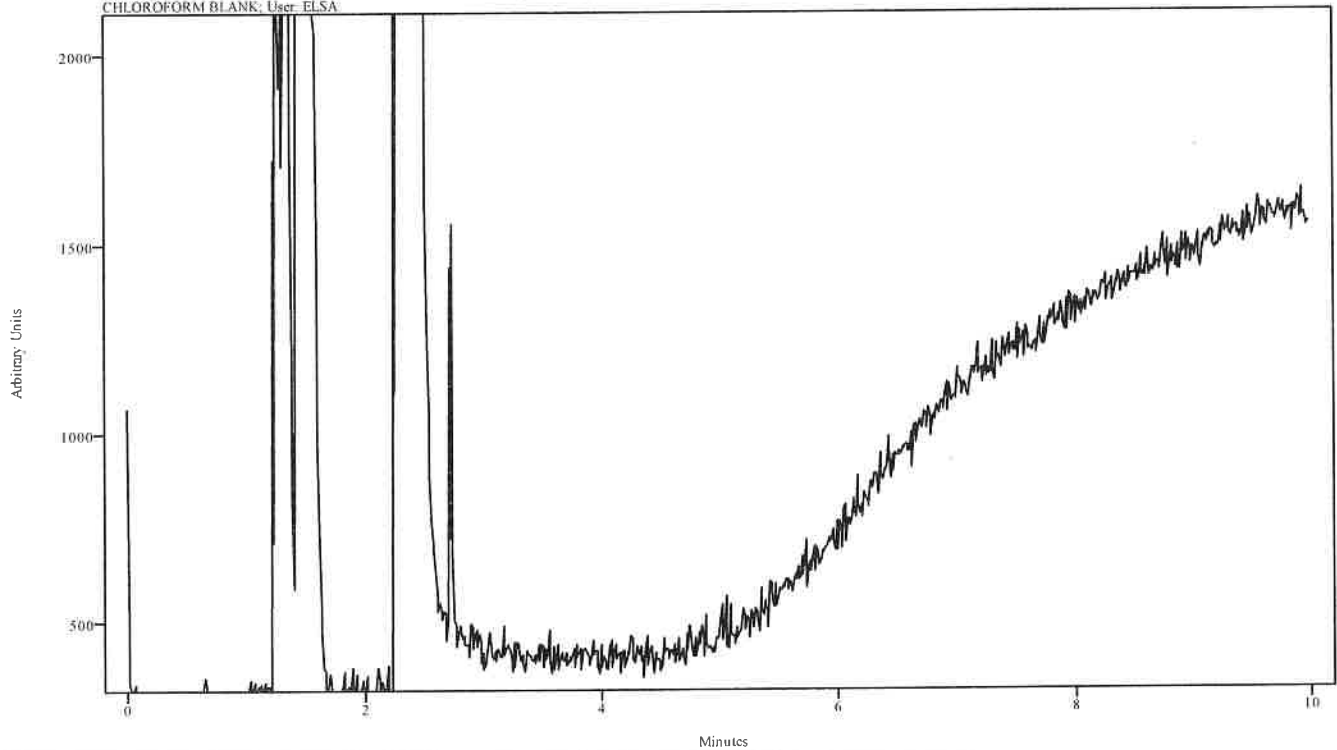


IRDATA.SPC: 5.10 minutes: AVE (5.08: 5.12) Ref. (4.58: 4.86) of CNS062023GCIRSTD
2023_June_20_144211.cgm **METHAMPHETAMINE**

IRD Data Analysis Report

Data Filename	CNS062023GCIRSTD-B 2023_June_20_142832
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	2
Sample Name	CHLOROFORM BLANK
Misc. Info	:GCIR STD MIX
User ID	ELSA
Injection Time	Tue Jun 20 14:42:11 2023
Date Processed	Tue Jun 20 14:44:17 2023

ird\data\egm: CNS062023GCIRSTD-B 2023_June_20_142832\ird\data\egm: Misc. Info: :GCIR STD MIX, Sample: CHLOROFORM BLANK, User: ELSA

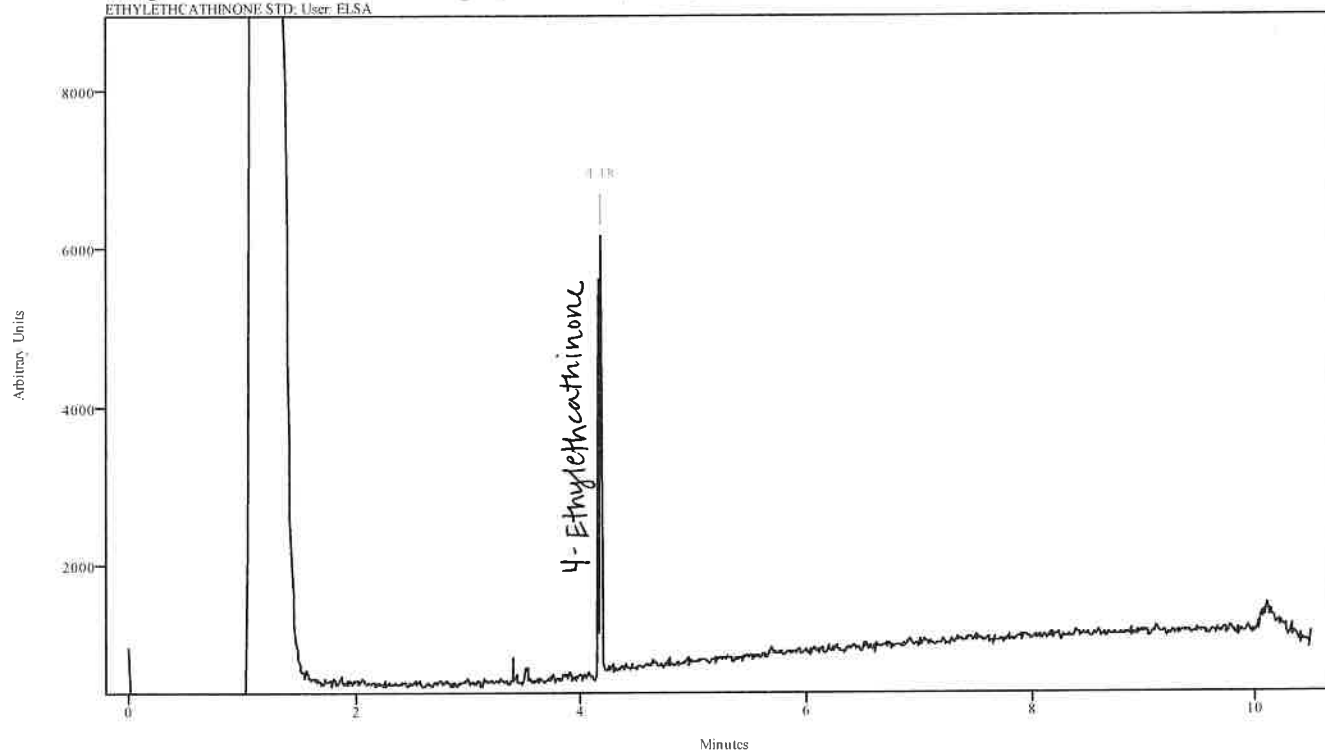


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

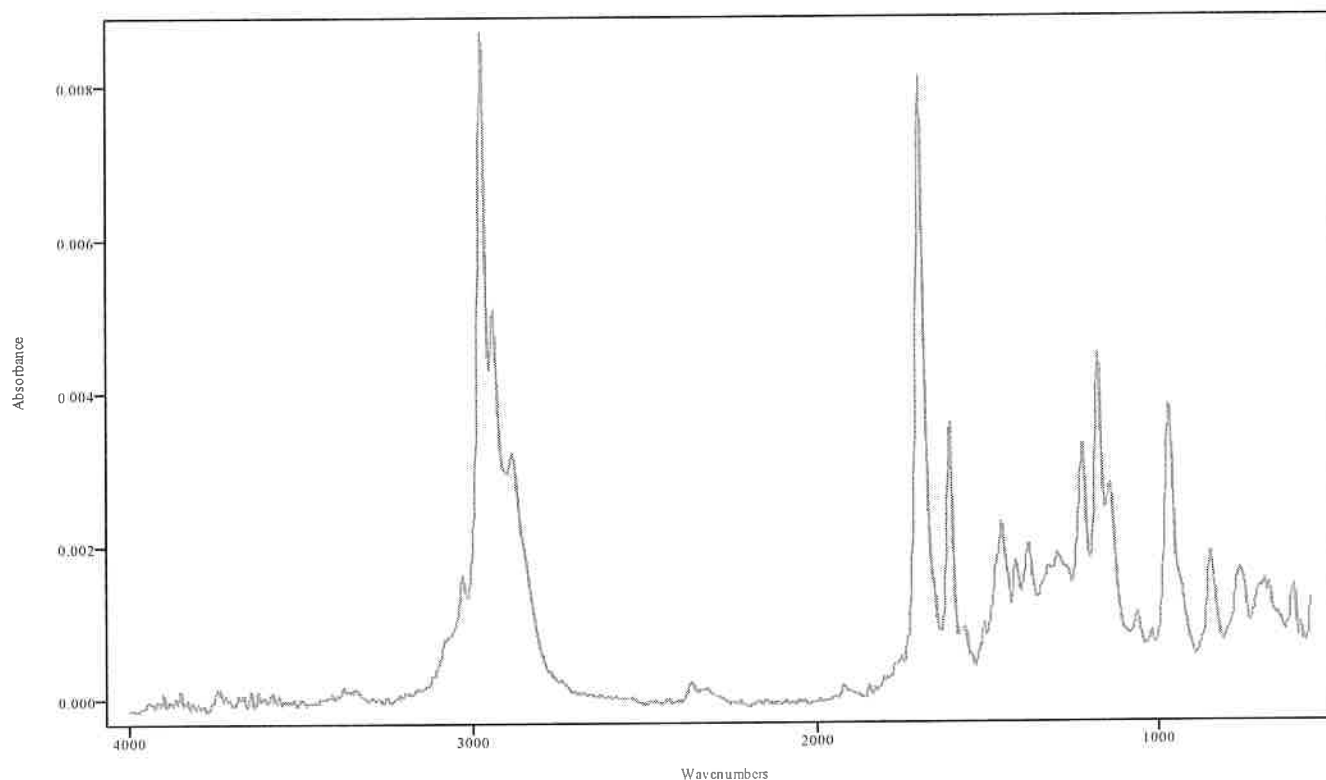
Data Filename	CNS0620234-4-ETHYLETHCATHINONE 2023_June_20_152305
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270
GC Vial	4
Sample Name	4-ETHYLETHCATHINONE STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Tue Jun 20 15:36:09 2023
Date Processed	Tue Jun 20 16:08:18 2023

in\data.cgm: CNS0620234-4-ETHYLETHCATHINONE 2023_June_20_152305\irdata.cgm : Misc. Info: MeOH:: Sample: ETHYLETHCATHINONE STD: User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
4.157	4.191	0.034	3.407	4.134

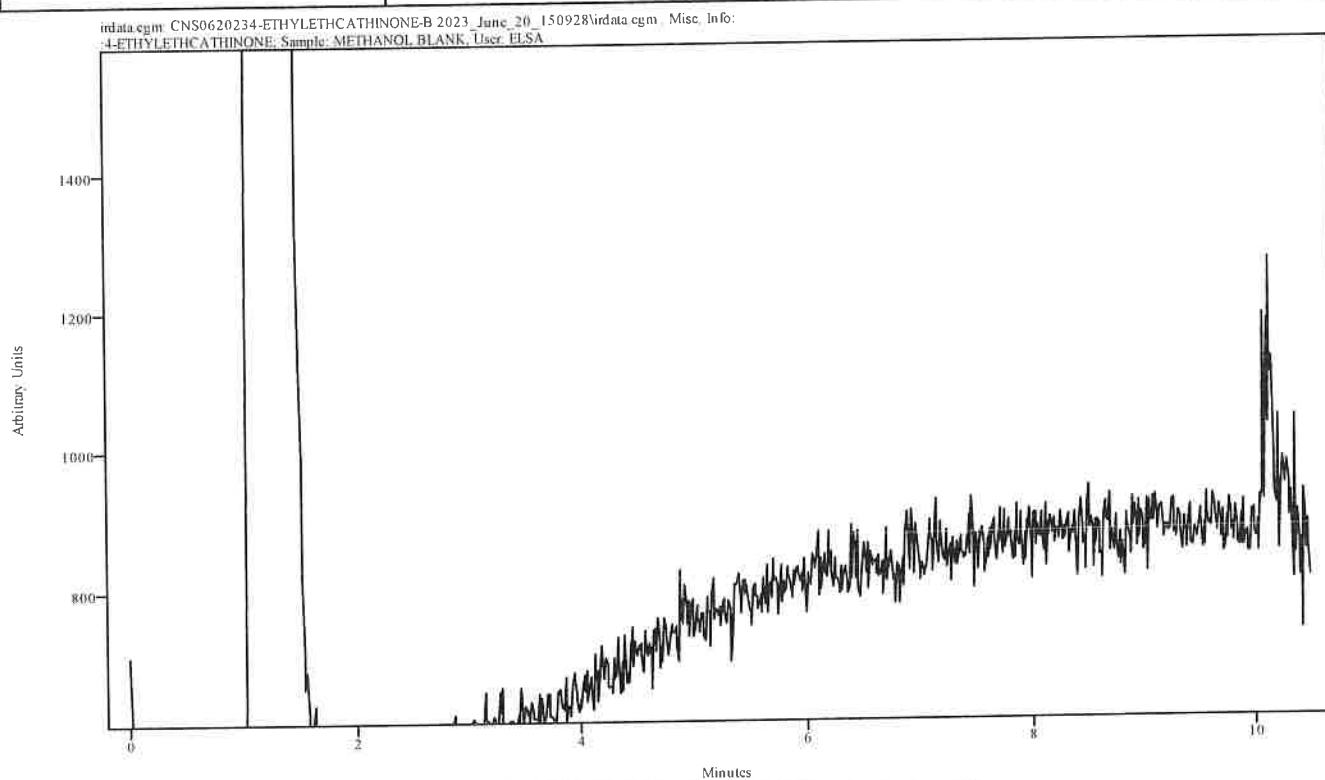
Data Filename	CNS0620234-4-ETHYLETHCATHINONE 2023_June_20_152305
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270
GC Vial	4
Sample Name	4-ETHYLETHCATHINONE STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Tue Jun 20 15:36:09 2023
Date Processed	Tue Jun 20 16:08:18 2023



IRDATA.SPC: 4.18 minutes: AVE (4.16: 4.19) Ref. (3.40: 4.13) of
CNS0620234-ETHYLETHCATHINONE 2023_June_20_152305.cgm **4-ETHYLETHCATHINONE**

IRD Data Analysis Report

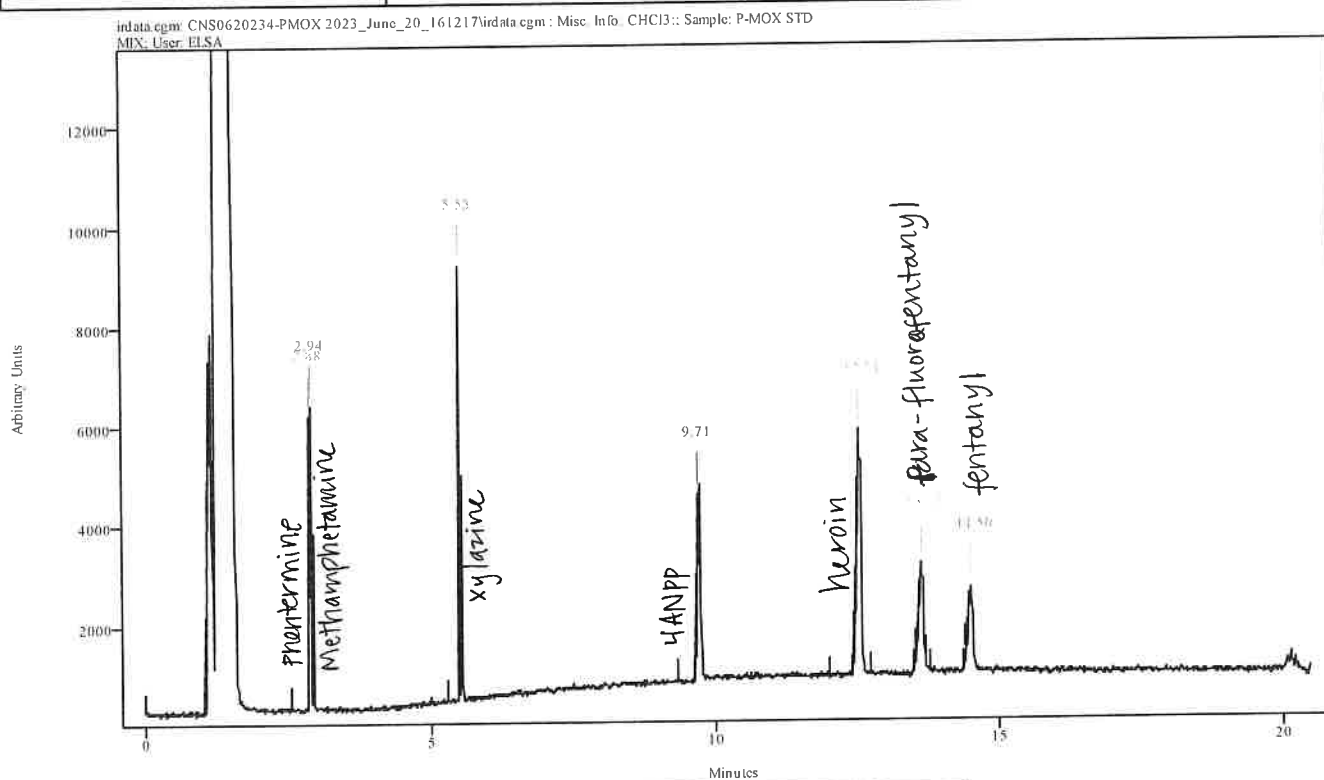
Data Filename	CNS0620234-ETHYLETHCATHINONE-B 2023_June_20_150928
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270
GC Vial	1
Sample Name	METHANOL BLANK
Misc. Info	4-ETHYLETHCATHINONE
User ID	ELSA
Injection Time	Tue Jun 20 15:23:05 2023
Date Processed	Tue Jun 20 16:07:17 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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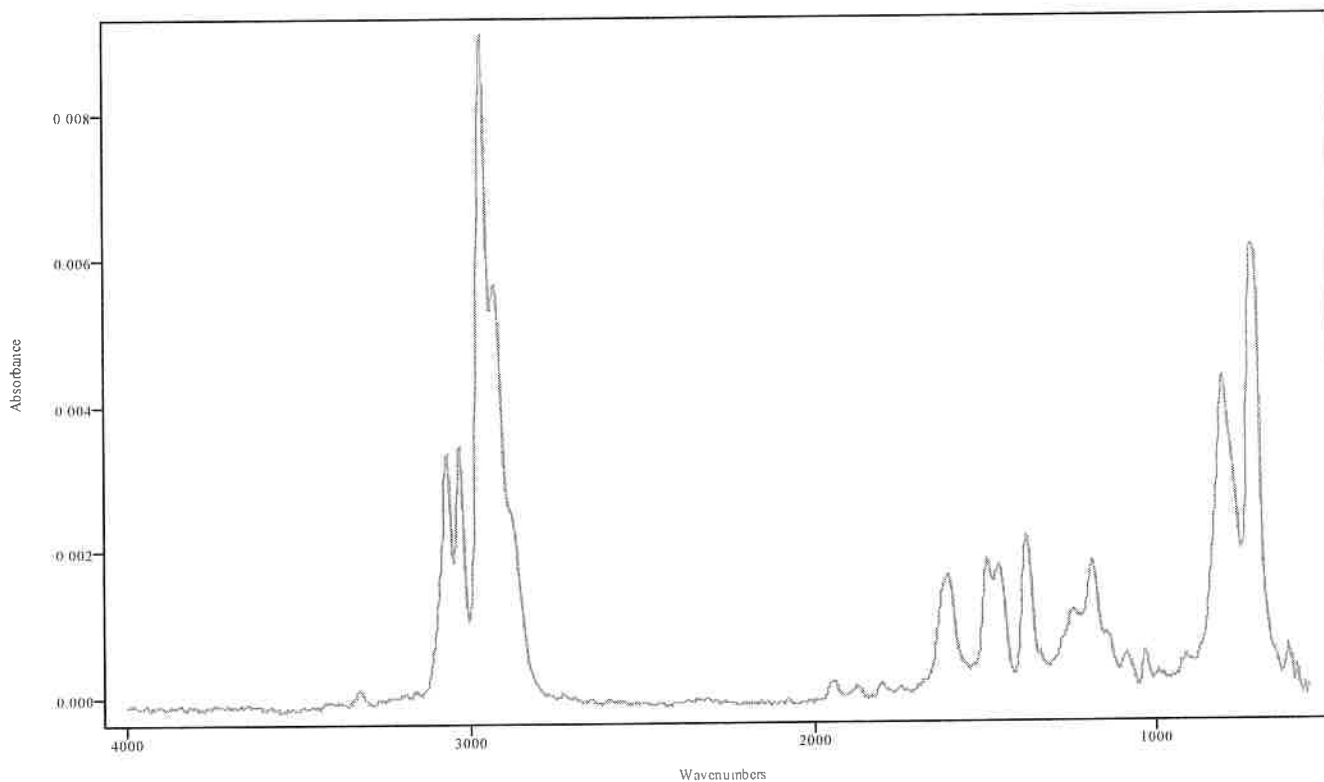
IRD Data Analysis Report

Data Filename	CNS0620234-PMOX 2023_June_20_161217
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 16:35:25 2023
Date Processed	Wed Jun 21 10:11:04 2023



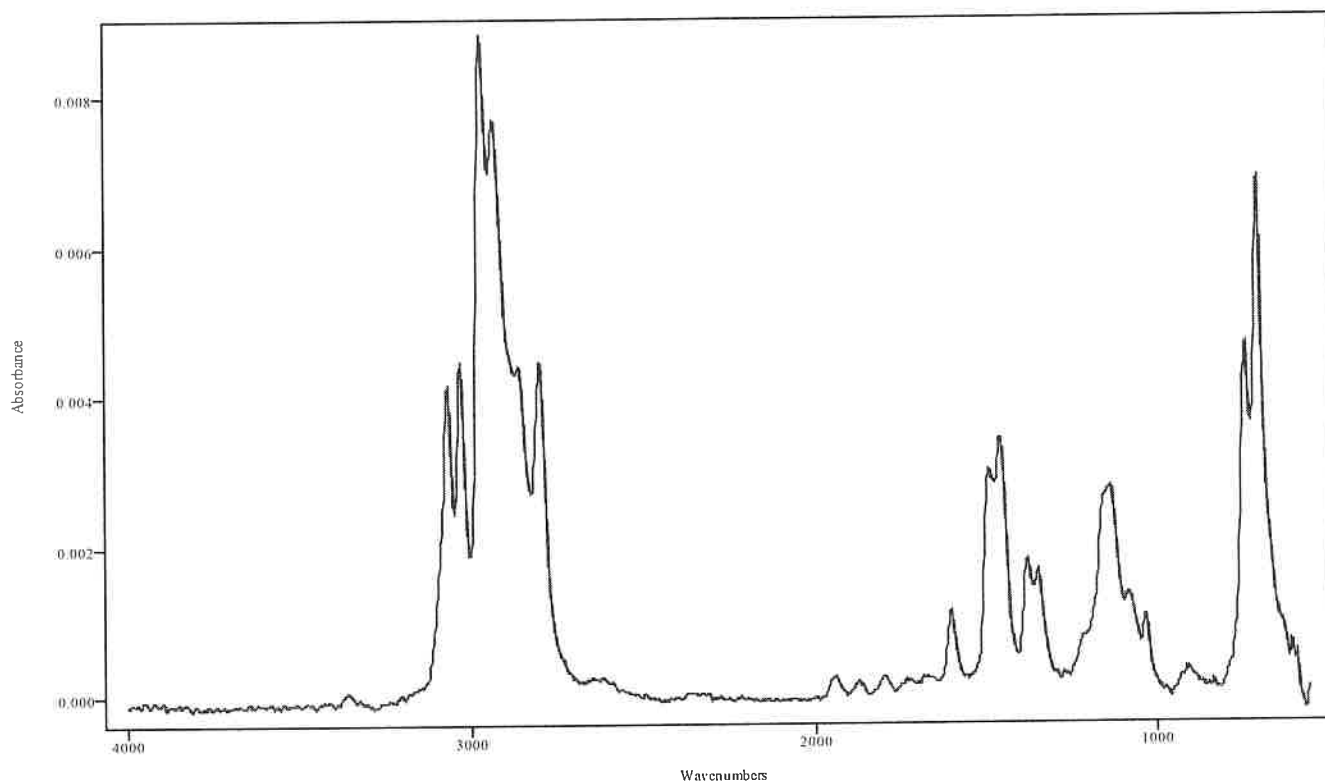
Peak Start	Peak End	Peak Width	Reference Start	Reference End
2.866	2.906	0.046	2.576	2.849
2.927	2.958	0.034	2.576	2.849
5.505	5.551	0.046	5.300	5.482
9.677	9.745	0.068	9.346	9.620
12.445	12.583	0.137	11.979	12.390
13.543	13.695	0.160	12.707	13.467
14.413	14.544	0.125	13.791	14.358

Data Filename	CNS0620234-PMOX 2023_June_20_161217
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 16:35:25 2023
Date Processed	Wed Jun 21 10:11:04 2023



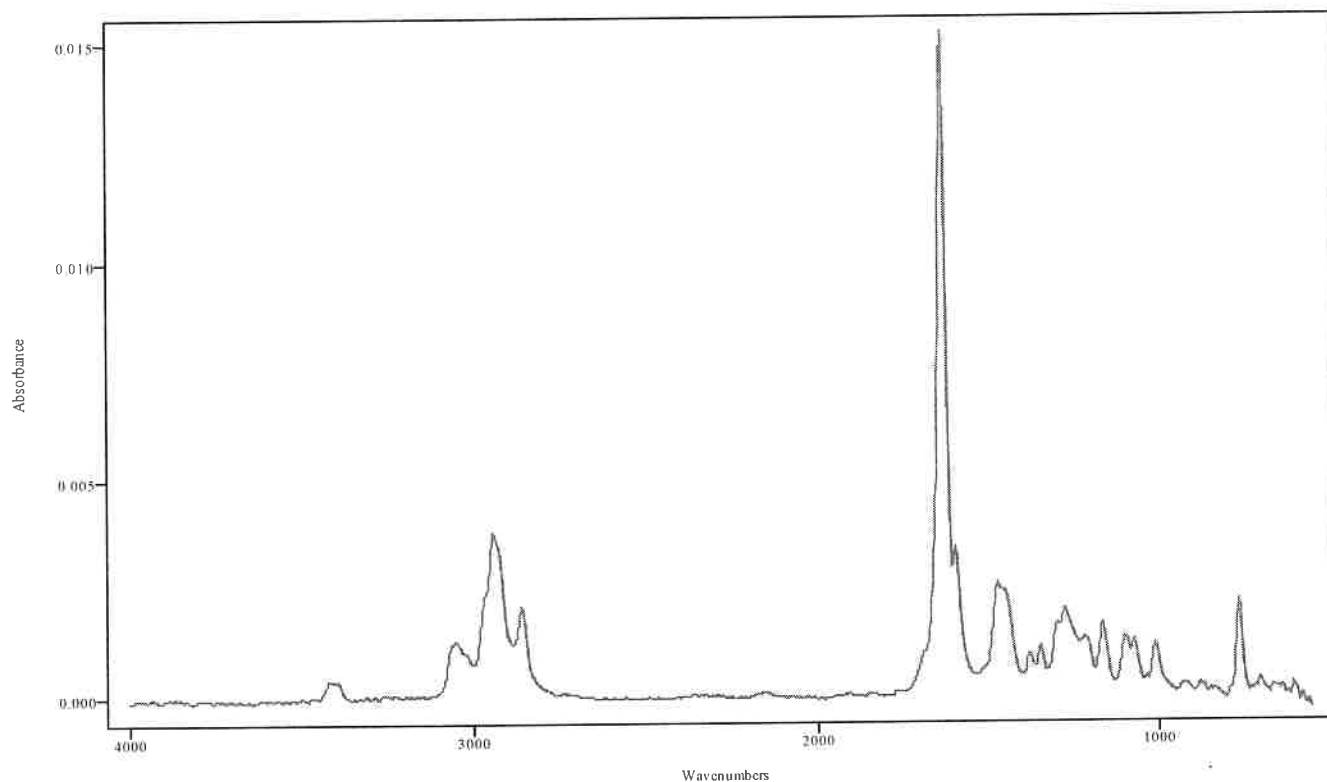
IRDATA.SPC: 2.88 minutes: AVE (2.86: 2.91) Ref. (2.58: 2.85) of CNS0620234-PMOX
2023_June_20_161217.cgm PHENTERMINE

Data Filename	CNS0620234-PMOX 2023_June_20_161217
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 16:35:25 2023
Date Processed	Wed Jun 21 10:11:04 2023



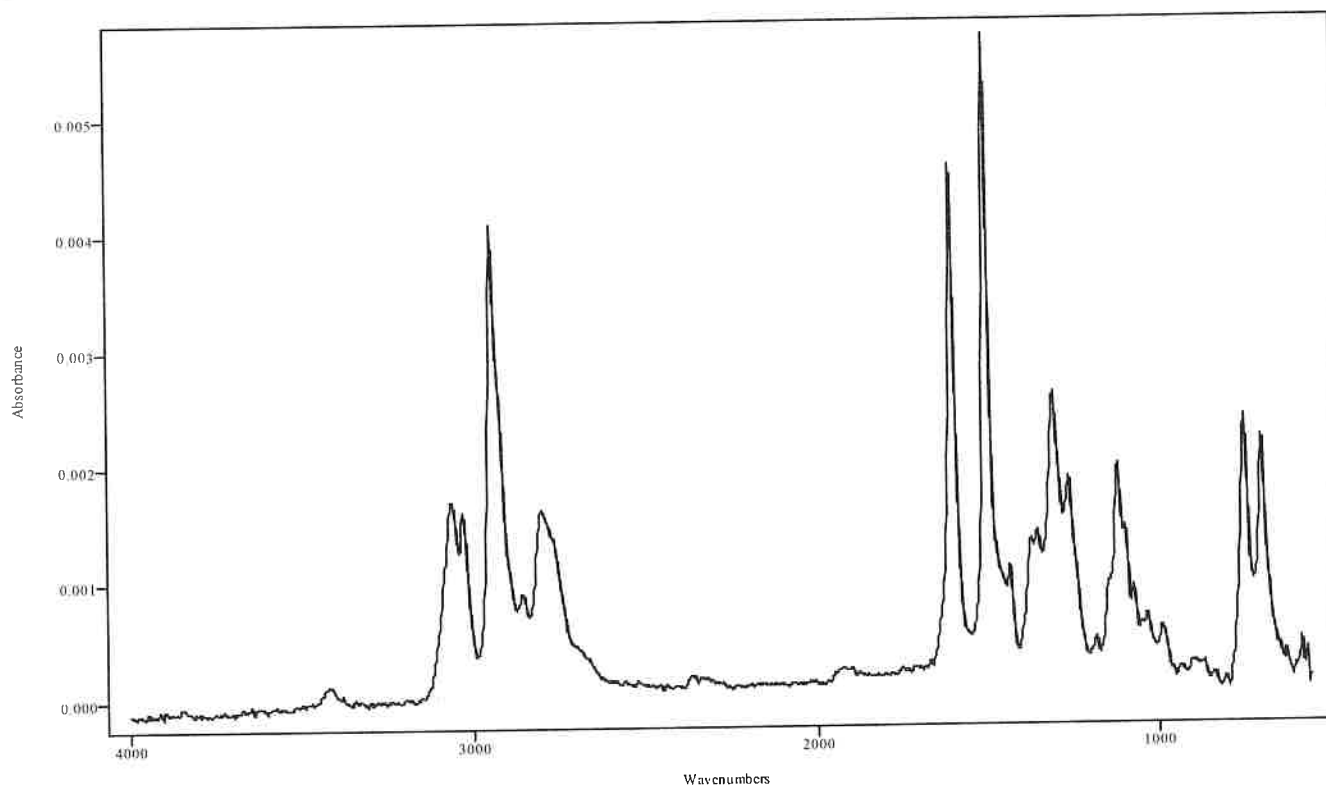
IRDATA.SPC: 2.94 minutes: AVE (2.93: 2.96) Ref. (2.58: 2.85) of CNS0620234-PMOX
2023_June_20_161217.cgm METHAMPHETAMINE

Data Filename	CNS0620234-PMOX 2023_June_20_161217
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 16:35:25 2023
Date Processed	Wed Jun 21 10:11:04 2023



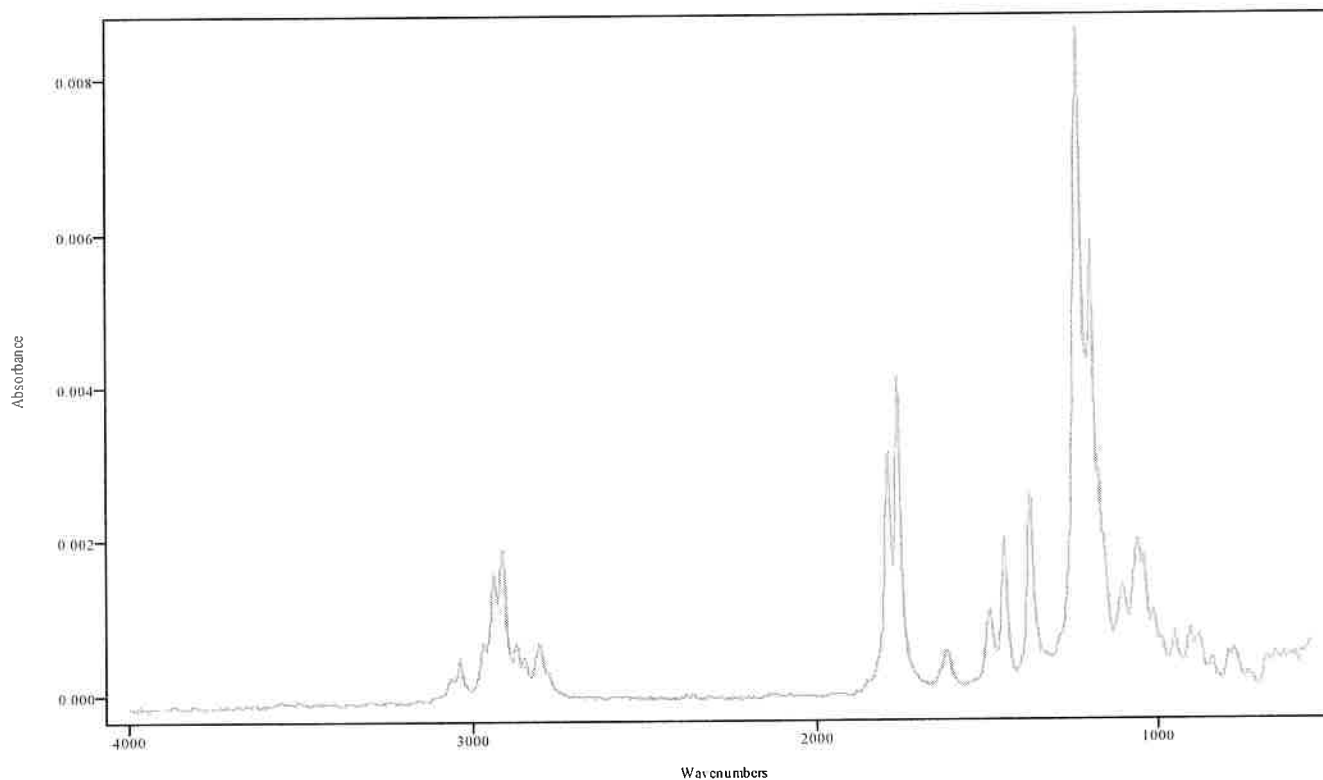
IRDATA.SPC: 5.53 minutes: AVE (5.51: 5.55) Ref. (5.30: 5.48) of CNS0620234-PMOX
2023_June_20_161217.cgm XYLAZINE

Data Filename	CNS0620234-PMOX 2023_June_20_161217
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3
User ID	ELSA
Injection Time	Tue Jun 20 16:35:25 2023
Date Processed	Wed Jun 21 10:11:04 2023



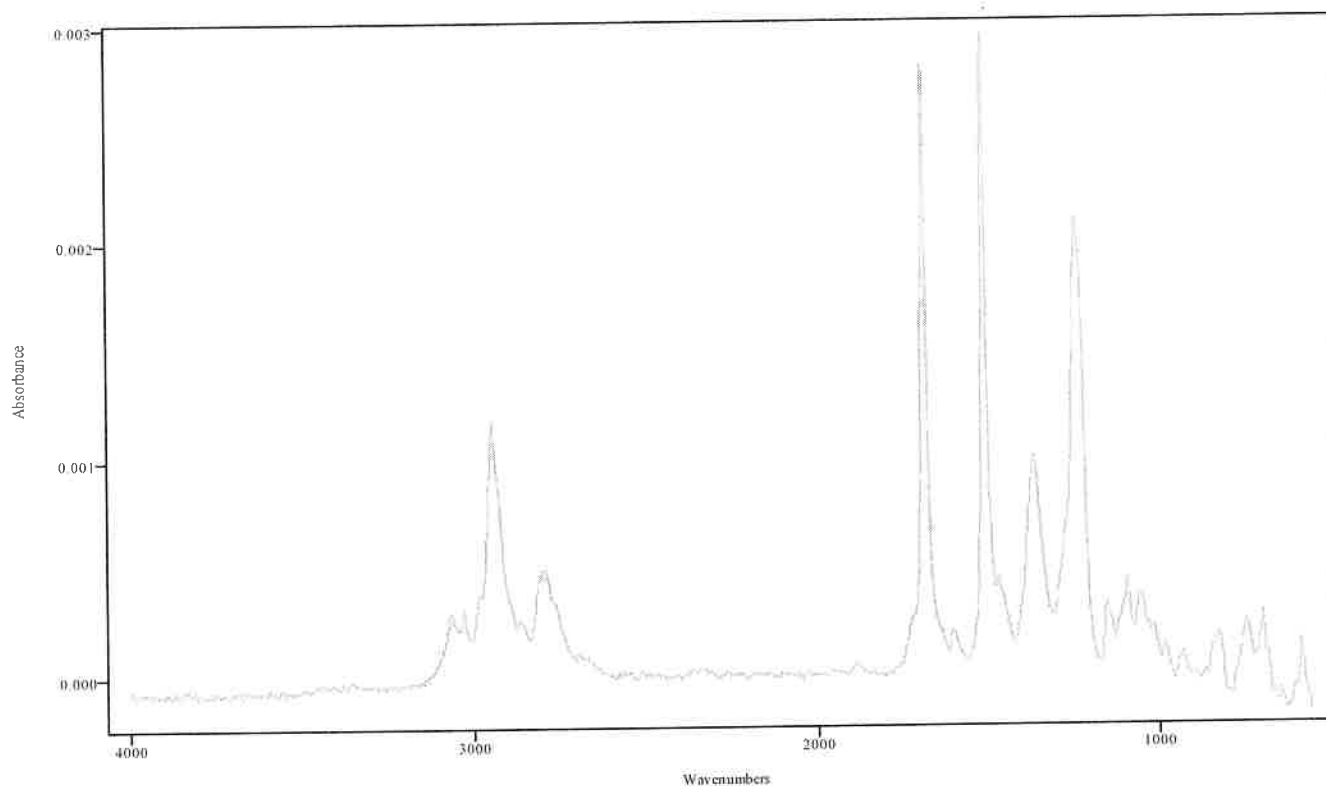
IRDATA.SPC: 9.71 minutes: AVE (9.68: 9.75) Ref. (9.35: 9.62) of CNS0620234-PMOX
2023_June_20_161217.cgm **4-ANPP**

Data Filename	CNS0620234-PMOX 2023_June_20_161217
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 16:35:25 2023
Date Processed	Wed Jun 21 10:11:04 2023



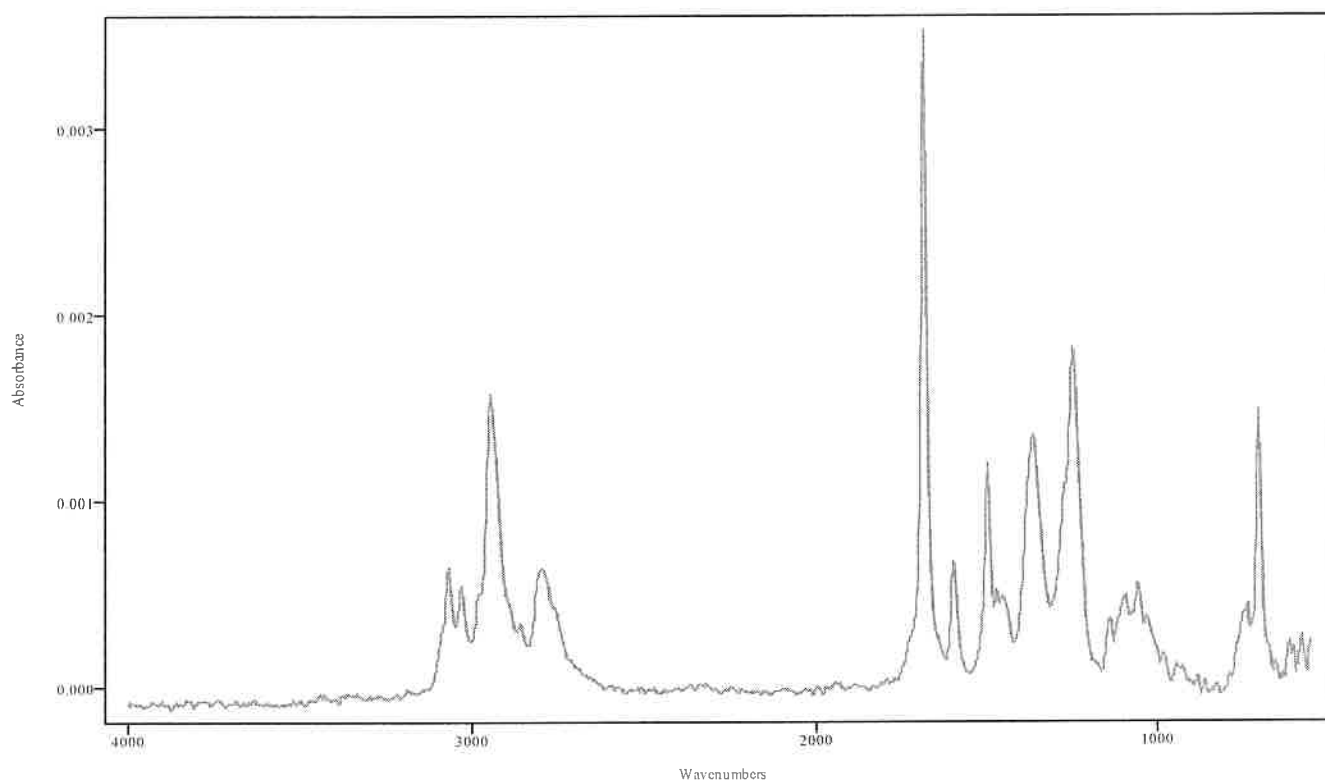
IRDATA.SPC: 12.54 minutes: AVE (12.45: 12.58) Ref. (11.98: 12.39) of CNS0620234-PMOX 2023_June_20_161217.cgm **HEROIN**

Data Filename	CNS0620234-PMOX 2023_June_20_161217
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 16:35:25 2023
Date Processed	Wed Jun 21 10:11:04 2023



IRDATA SPC: 13.63 minutes: AVE (13.54: 13.70) Ref. (12.71: 13.47) of CNS0620234-PMOX
2023_June_20_161217.cgm PARA-FLUOROFENTANYL

Data Filename	CNS0620234-PMOX 2023_June_20_161217
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 16:35:25 2023
Date Processed	Wed Jun 21 10:11:04 2023

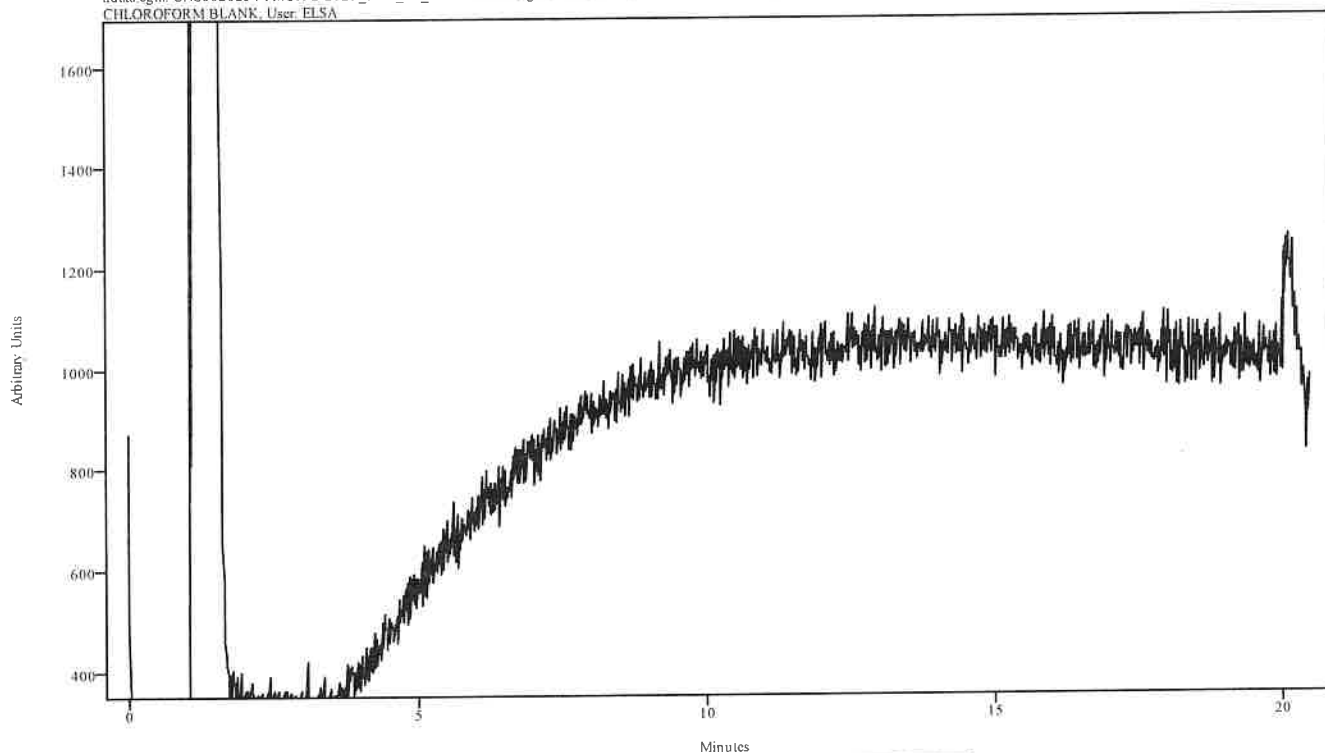


IRDATA.SPC: 14.50 minutes: AVE (14.42: 14.54) Ref. (13.79: 14.36) of CNS0620234-PMOX
2023_June_20_161217.cgm FENTANYL

IRD Data Analysis Report

Data Filename	CNS0620234-PMOX-B 2023_June_20_154913
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	120TO270(20MIN)
GC Vial	2
Sample Name	CHLOROFORM BLANK
Misc. Info	:P-MOX STD MIX
User ID	ELSA
Injection Time	Tue Jun 20 16:12:16 2023
Date Processed	Tue Jun 20 16:26:10 2023

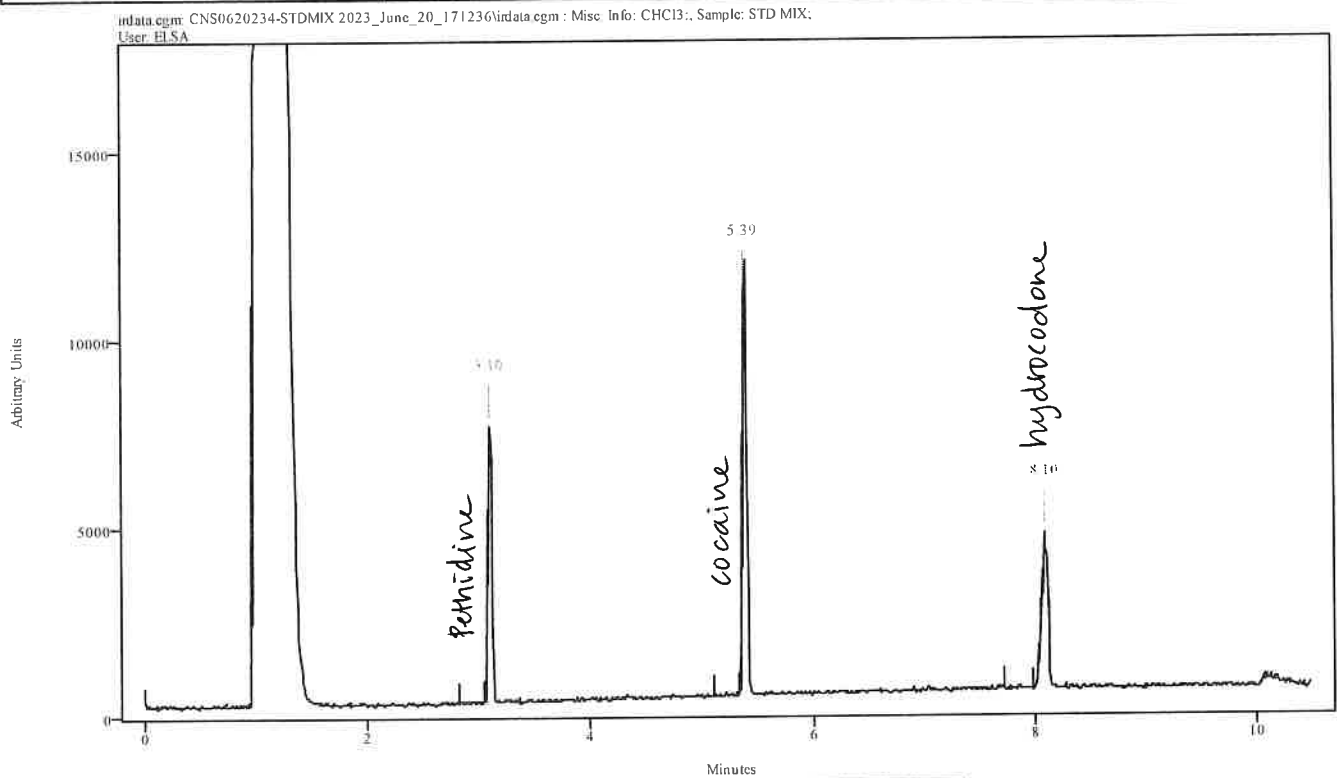
irdata.cgm: CNS0620234-PMOX-B 2023_June_20_154913\irdata.cgm : Misc. Info: :P-MOX STD MIX; Sample: CHLOROFORM BLANK; User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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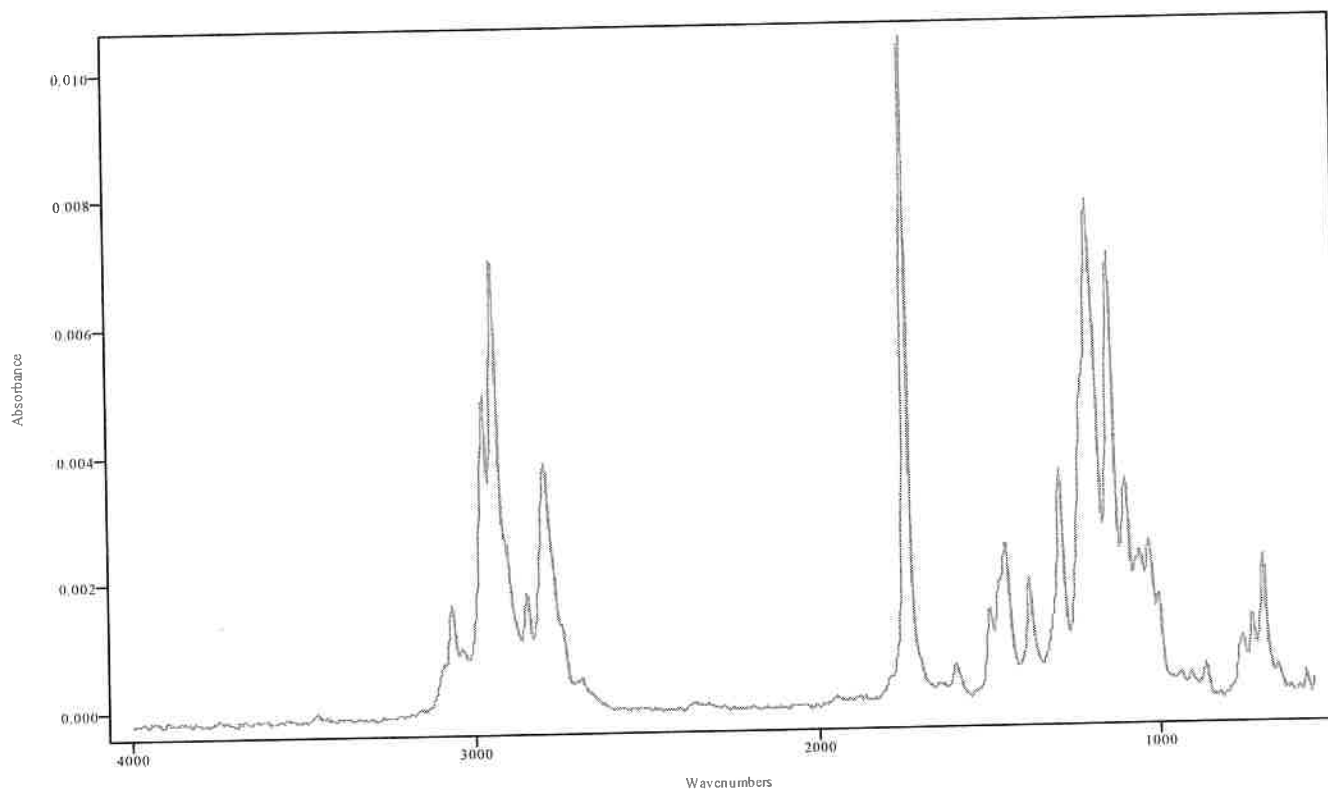
IRD Data Analysis Report

Data Filename	CNS0620234-STD MIX 2023_June_20_171236
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	200TO270
GC Vial	6
Sample Name	STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 17:25:40 2023
Date Processed	Thu Jun 22 13:28:06 2023



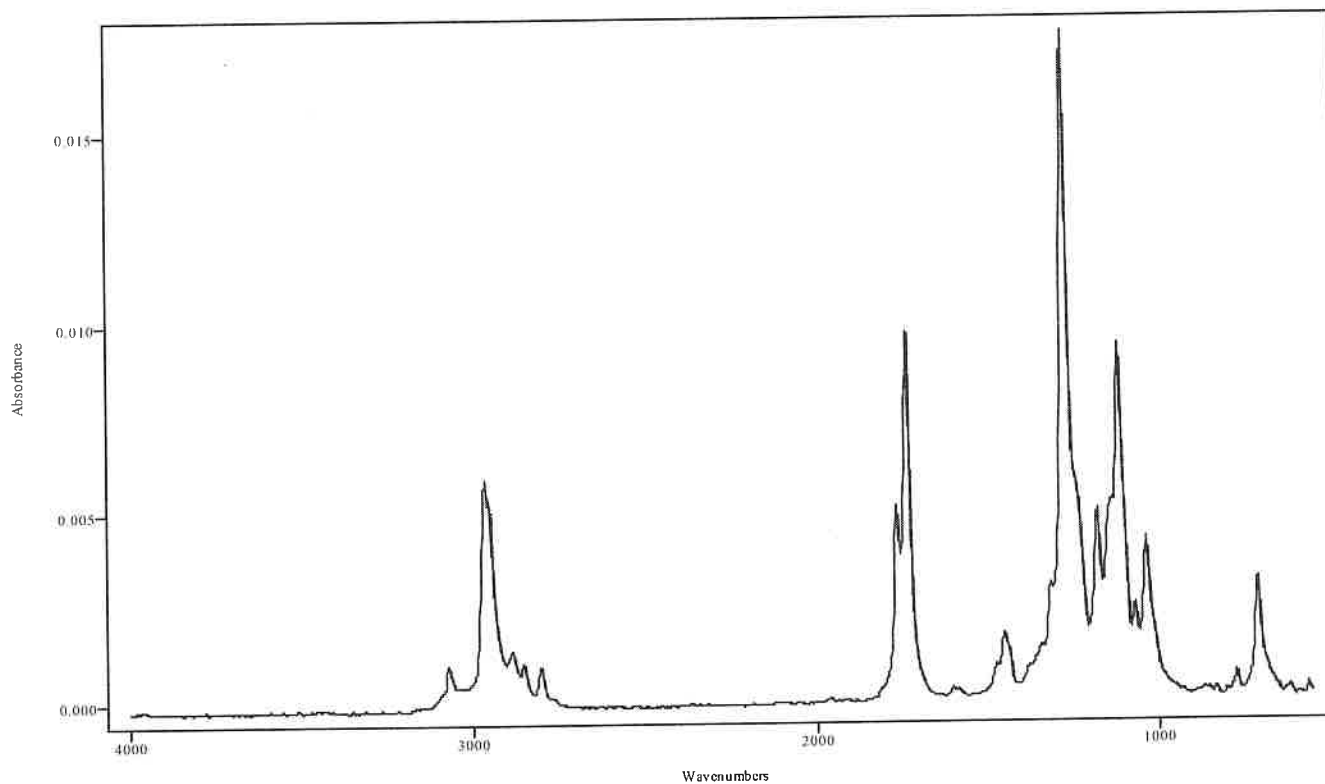
Peak Start	Peak End	Peak Width	Reference Start	Reference End
3.077	3.123	0.046	2.815	3.043
5.368	5.425	0.057	5.106	5.334
8.058	8.126	0.068	7.716	7.989

Data Filename	CNS0620234-STD MIX 2023_June_20_171236
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	200TO270
GC Vial	6
Sample Name	STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 17:25:40 2023
Date Processed	Thu Jun 22 13:28:06 2023



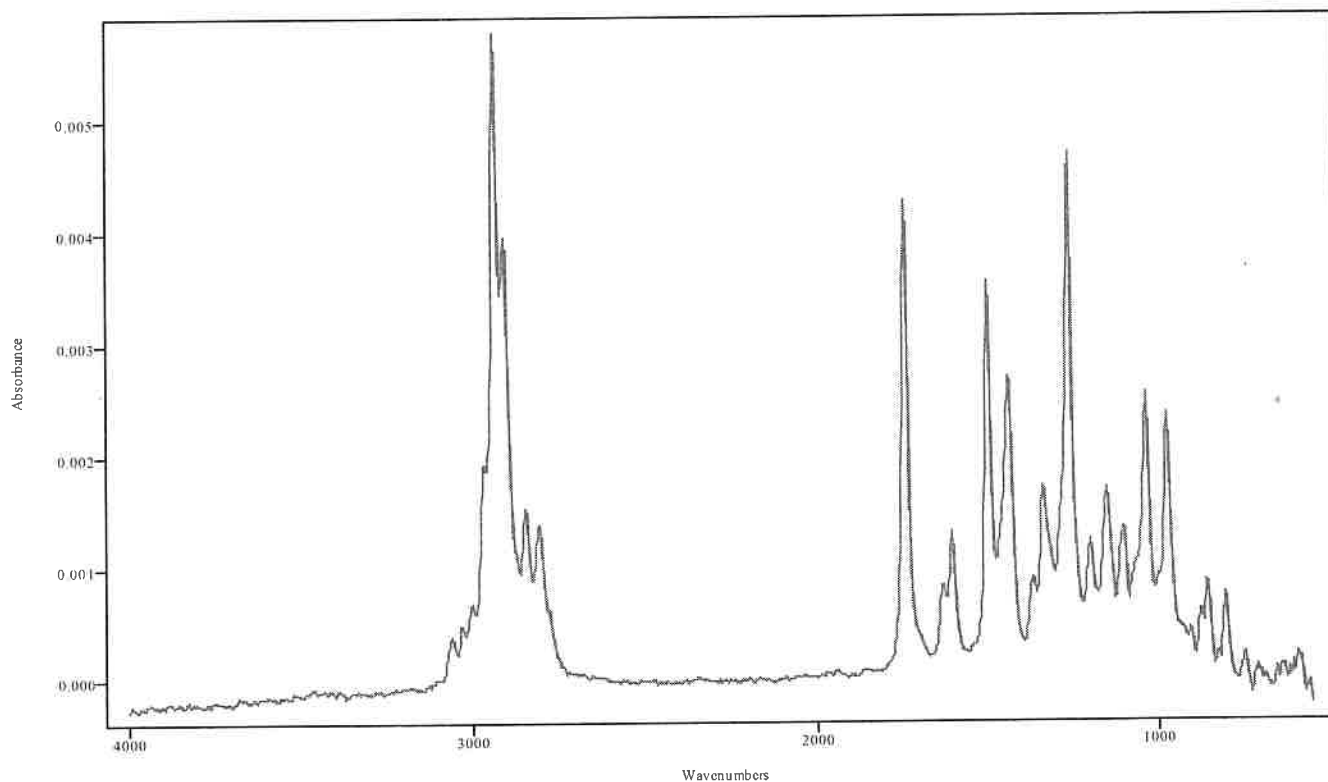
IRDATA.SPC: 3.10 minutes: AVE (3.08: 3.12) Ref. (2.82: 3.04) of CNS0620234-STD MIX
2023_June_20_171236.cgm PETHIDINE

Data Filename	CNS0620234-STMIX 2023_June_20_171236
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	200TO270
GC Vial	6
Sample Name	STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 17:25:40 2023
Date Processed	Thu Jun 22 13:28:06 2023



IRDATA.SPC: 5.39 minutes: AVE (5.37: 5.42) Ref. (5.11: 5.33) of CNS0620234-STMIX
2023_June_20_171236.cgm COCAINE

Data Filename	CNS0620234-STD MIX 2023_June_20_171236
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	200TO270
GC Vial	6
Sample Name	STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Tue Jun 20 17:25:40 2023
Date Processed	Thu Jun 22 13:28:06 2023

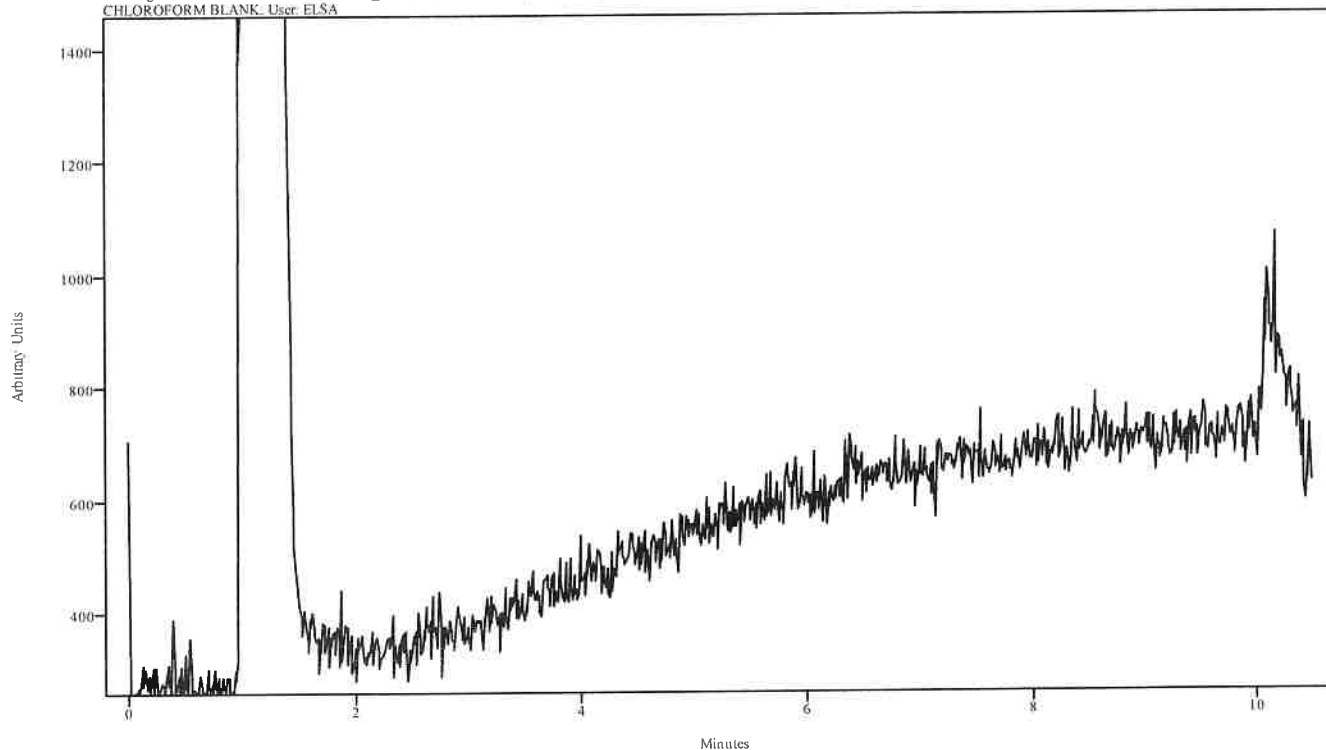


IRDATA.SPC: 8.10 minutes: AVE (8.06: 8.13) Ref. (7.72: 7.99) of CNS0620234-STD MIX
2023_June_20_171236.cgm HYDROCODONE

IRD Data Analysis Report

Data Filename	CNS0620234-STD MIX-B 2023_June_20_165831
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	200TO270
GC Vial	2
Sample Name	CHLOROFORM BLANK
Misc. Info	:STD MIX
User ID	ELSA
Injection Time	Tue Jun 20 17:12:36 2023
Date Processed	Thu Jun 22 13:31:39 2023

irdata.cgm: CNS0620234-STD MIX-B 2023_June_20_165831\irdata.cgm : Misc. Info: :STD MIX: Sample: CHLOROFORM BLANK: User: ELSA

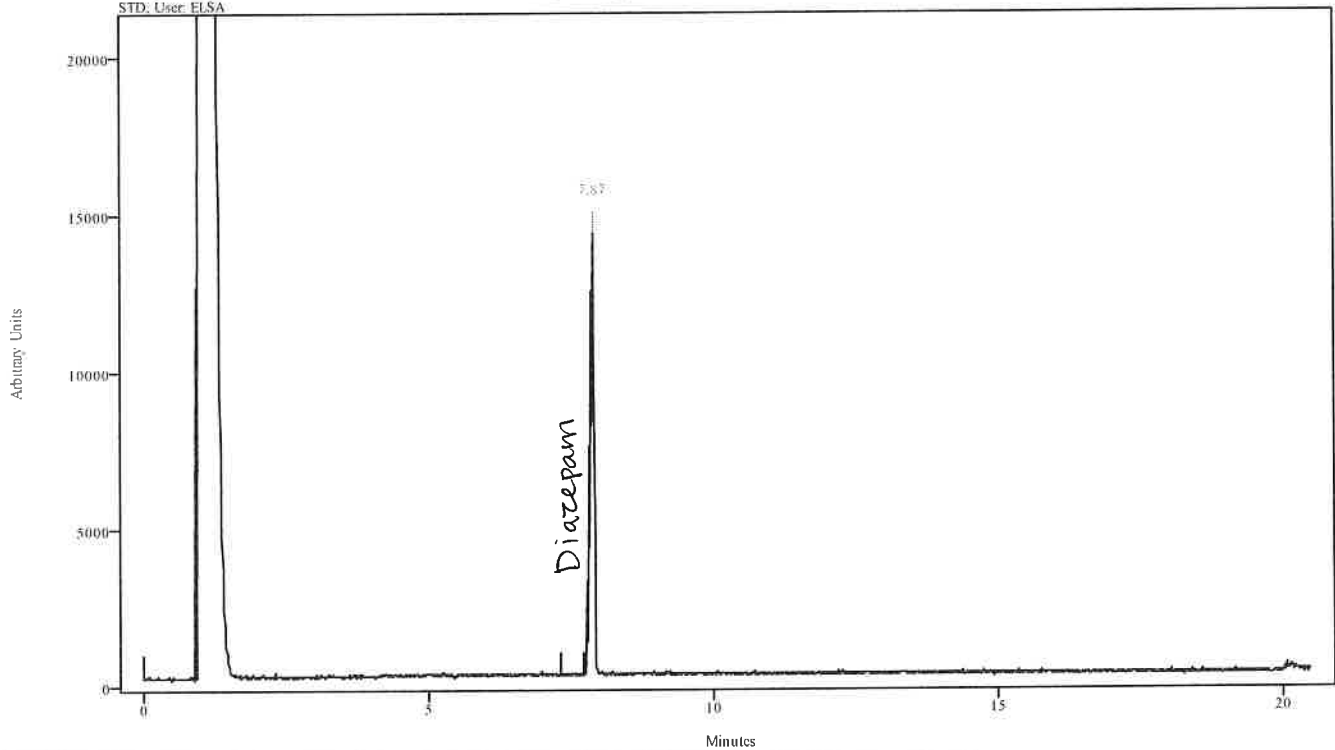


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

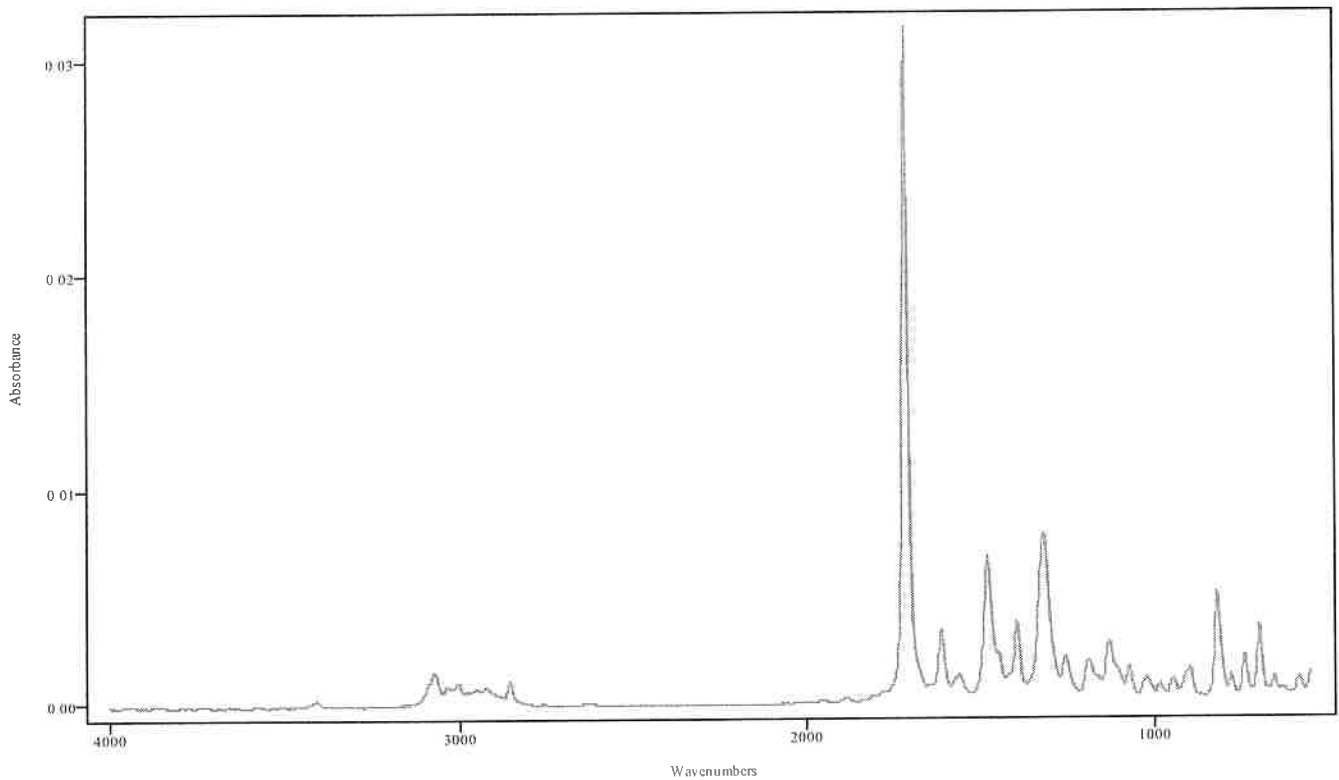
Data Filename	CNS0620234-DIAZEPAM 2023_June_21_231222
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	200TO270(20MIN)
GC Vial	10
Sample Name	DIAZEPAM STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Wed Jun 21 23:35:22 2023
Date Processed	Thu Jun 22 10:55:45 2023

irdata.cgm: CNS0620234-DIAZEPAM 2023_June_21_231222\irdata.cgm : Misc. Info: MeOH:: Sample: DIAZEPAM
STD: User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
7.815	7.906	0.091	7.301	7.712

Data Filename	CNS0620234-DIAZEPAM 2023_June_21_231222
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	200TO270(20MIN)
GC Vial	10
Sample Name	DIAZEPAM STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Wed Jun 21 23:35:22 2023
Date Processed	Thu Jun 22 10:55:45 2023

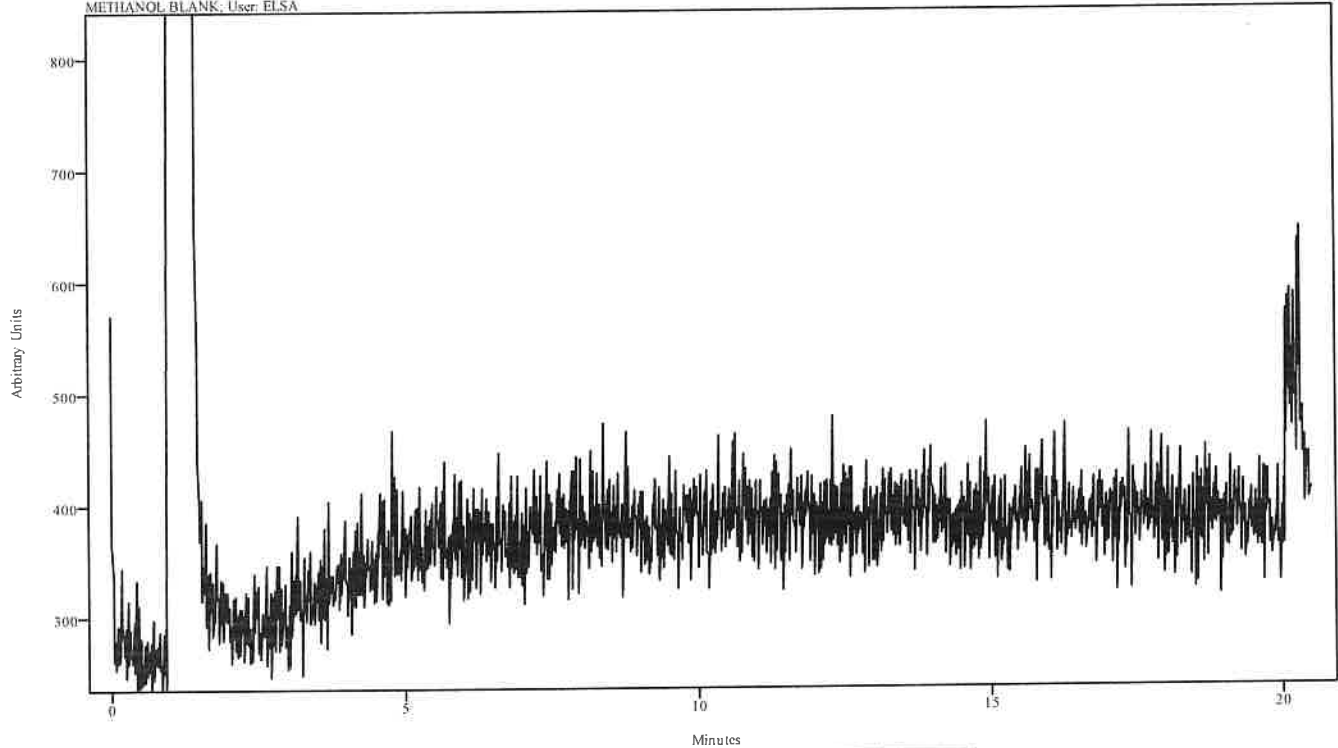


IRDATA.SPC: 7.87 minutes: AVE (7.81: 7.91) Ref. (7.30: 7.71) of CNS0620234-DIAZEPAM
2023_June_21_231222.cgm DIAZEPAM

IRD Data Analysis Report

Data Filename	CNS0620234-DIAZEPAM-B 2023_June_21_224848
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	200TO270(20MIN)
GC Vial	21
Sample Name	METHANOL BLANK
Misc. Info	:DIAZEPAM STD
User ID	ELSA
Injection Time	Wed Jun 21 23:12:22 2023
Date Processed	Thu Jun 22 10:51:27 2023

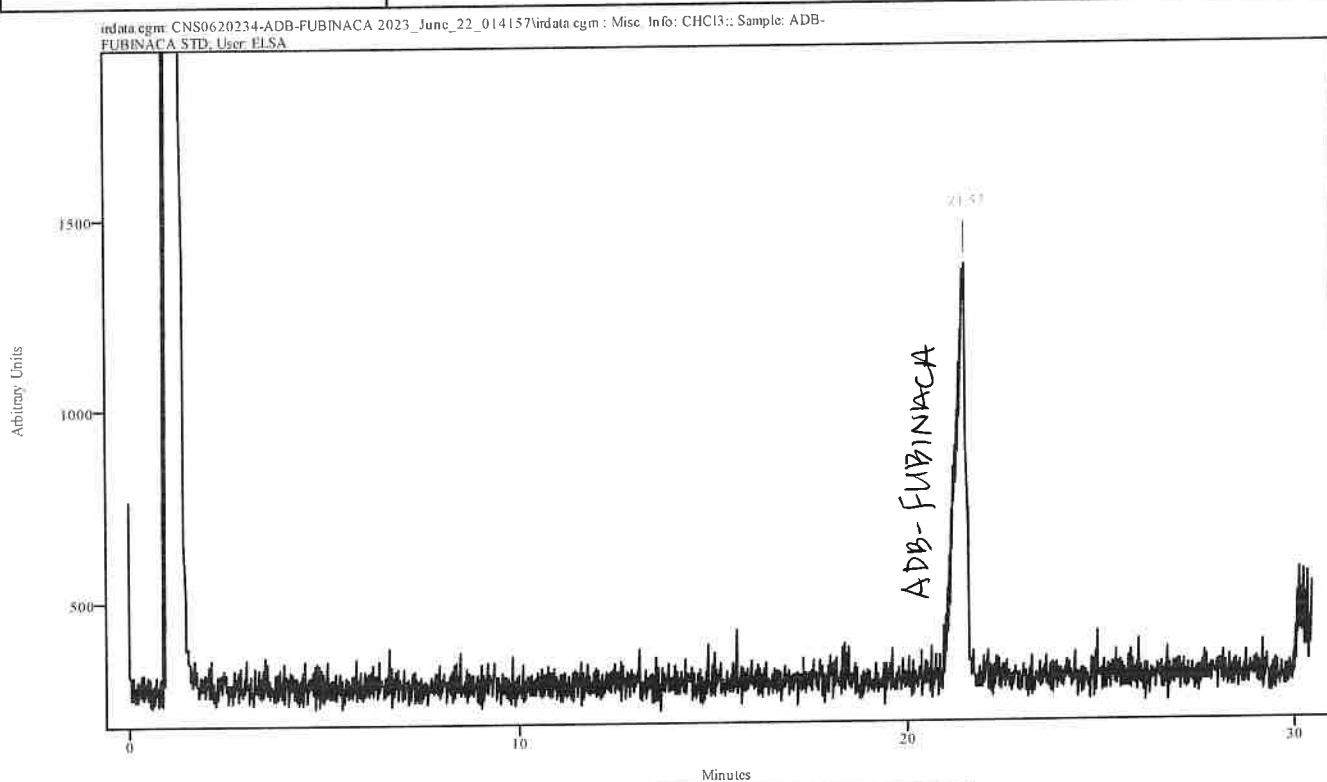
irdata.cgm: CNS0620234-DIAZEPAM-B 2023_June_21_224848\irdata.cgm : Misc. Info: :DIAZEPAM STD; Sample: METHANOL BLANK; User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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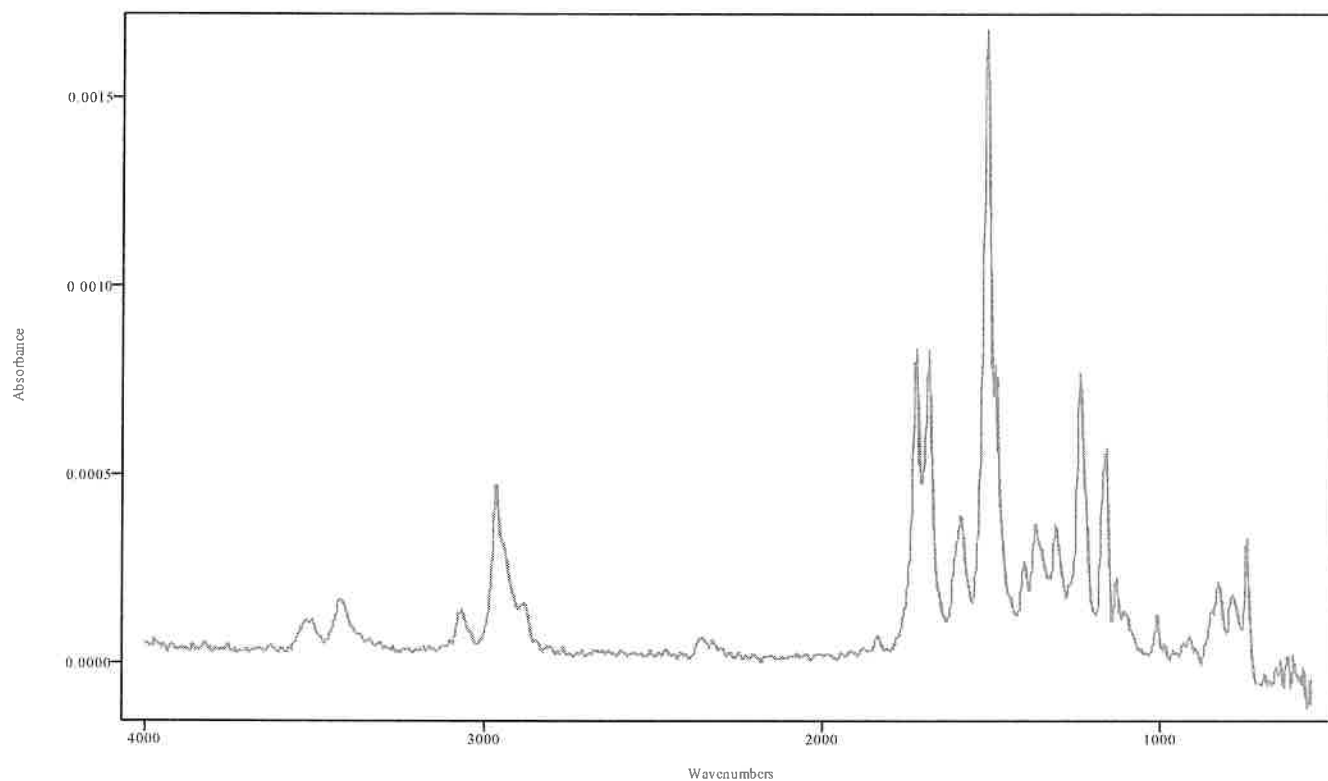
IRD Data Analysis Report

Data Filename	CNS0620234-ADB-FUBINACA 2023_June_22_014157
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(30MIN)
GC Vial	7
Sample Name	ADB-FUBINACA STD
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Thu Jun 22 02:16:17 2023
Date Processed	Thu Jun 22 11:04:49 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
20.964	21.590	0.628	17.346	20.379

Data Filename	CNS0620234-ADB-FUBINACA 2023_June_22_014157
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(30MIN)
GC Vial	7
Sample Name	ADB-FUBINACA STD
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Thu Jun 22 02:16:17 2023
Date Processed	Thu Jun 22 11:04:49 2023

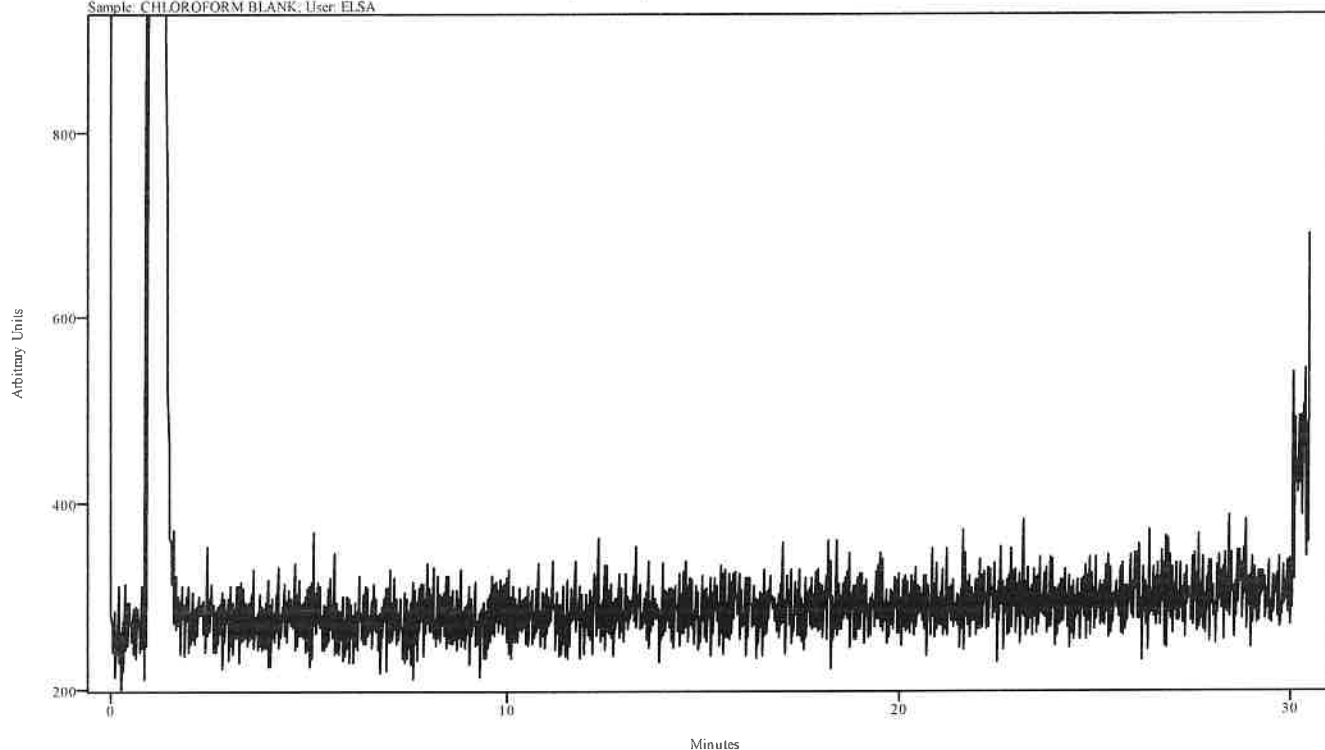


IRDATA.SPC: 21.53 minutes: AVE (20.96: 21.59) Ref. (17.34: 20.38) of
CNS0620234-ADB-FUBINACA 2023_June_22_014157.cgm ADB-FUBINACA

IRD Data Analysis Report

Data Filename	CNS0620234-ADB-FUBINACA-B 2023_June_22_010723
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(30MIN)
GC Vial	22
Sample Name	CHLOROFORM BLANK
Misc. Info	:ADB-FUBINACA STD
User ID	ELSA
Injection Time	Thu Jun 22 01:41:57 2023
Date Processed	Thu Jun 22 11:04:08 2023

irdata.cgm: CNS0620234-ADB-FUBINACA-B 2023_June_22_010723\irdata.cgm : Misc. Info: :ADB-FUBINACA STD:
Sample: CHLOROFORM BLANK; User: ELSA

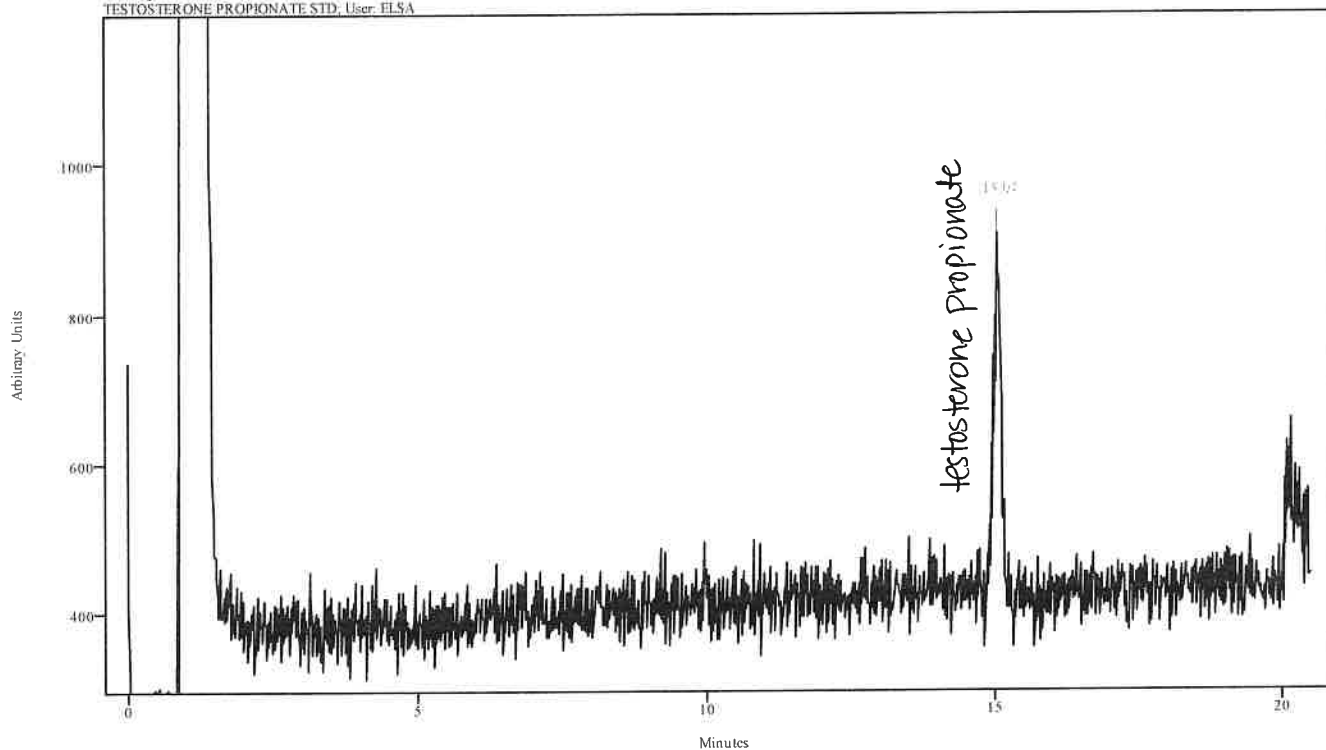


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

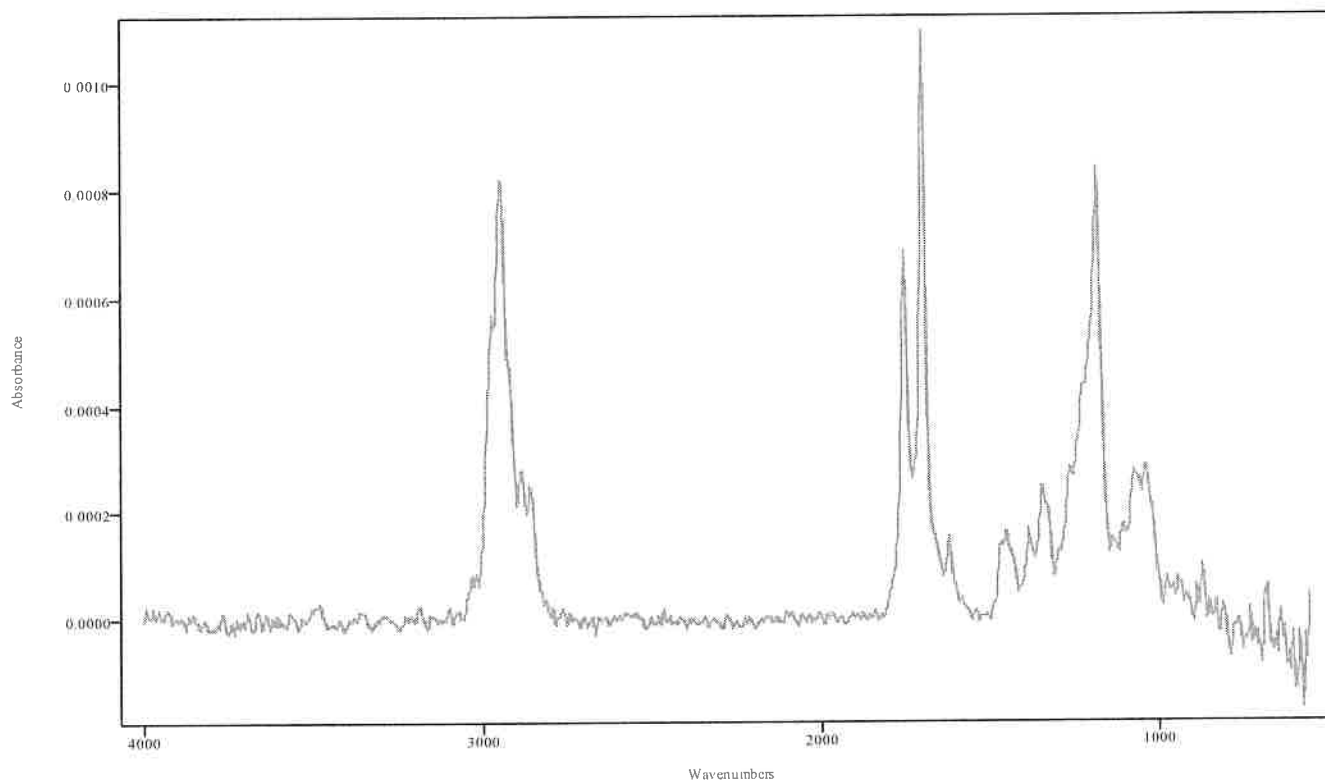
Data Filename	CNS0620234-TESTOSTERONE-PRO 2023_June_20_194631
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(20MIN)
GC Vial	8
Sample Name	TESTOSTERONE PROPIONATE STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Tue Jun 20 20:10:53 2023
Date Processed	Wed Jun 21 11:00:04 2023

irdata.cgm: CNS0620234-TESTOSTERONE-PRO 2023_June_20_194631\irdata.cgm : Misc. Info: MeOH:: Sample: TESTOSTERONE PROPIONATE STD, User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
14.963	15.161	0.194	14.142	14.826

Data Filename	CNS0620234-TESTOSTERONE-PRO 2023_June_20_194631
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(20MIN)
GC Vial	8
Sample Name	TESTOSTERONE PROPIONATE STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Tue Jun 20 20:10:53 2023
Date Processed	Wed Jun 21 11:00:04 2023



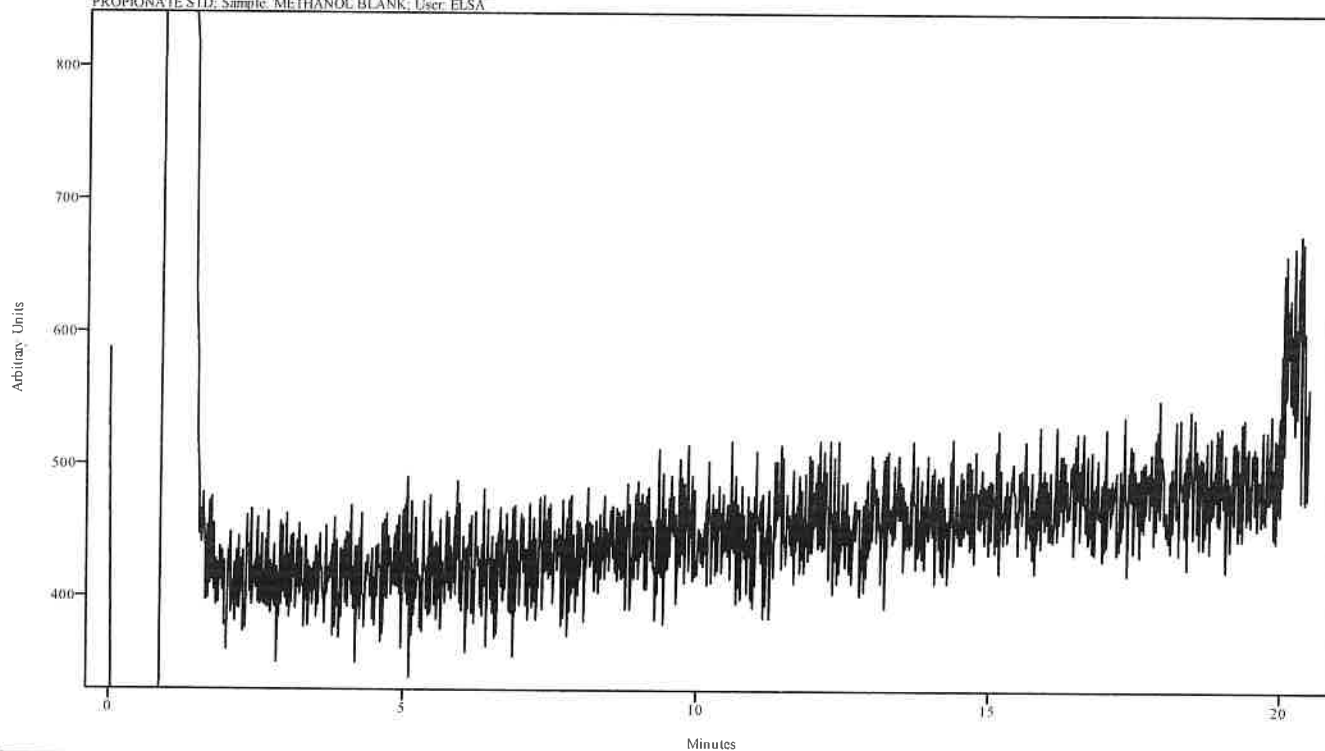
IRDATA.SPC: 15.07 minutes: AVE (14.96: 15.16) Ref. (14.14: 14.83) of
CNS0620234-TESTOSTERONE-PRO 2023_June_20_194631.cgm

TESTOSTERONE PROPIONATE

IRD Data Analysis Report

Data Filename	CNS0620234-TESTOSTERONE-PRO-B 2023_June_20_192201
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(20MIN)
GC Vial	11
Sample Name	METHANOL BLANK
Misc. Info	:TESTOSTERONE PROPIONATE STD
User ID	ELSA
Injection Time	Tue Jun 20 19:46:30 2023
Date Processed	Wed Jun 21 10:55:11 2023

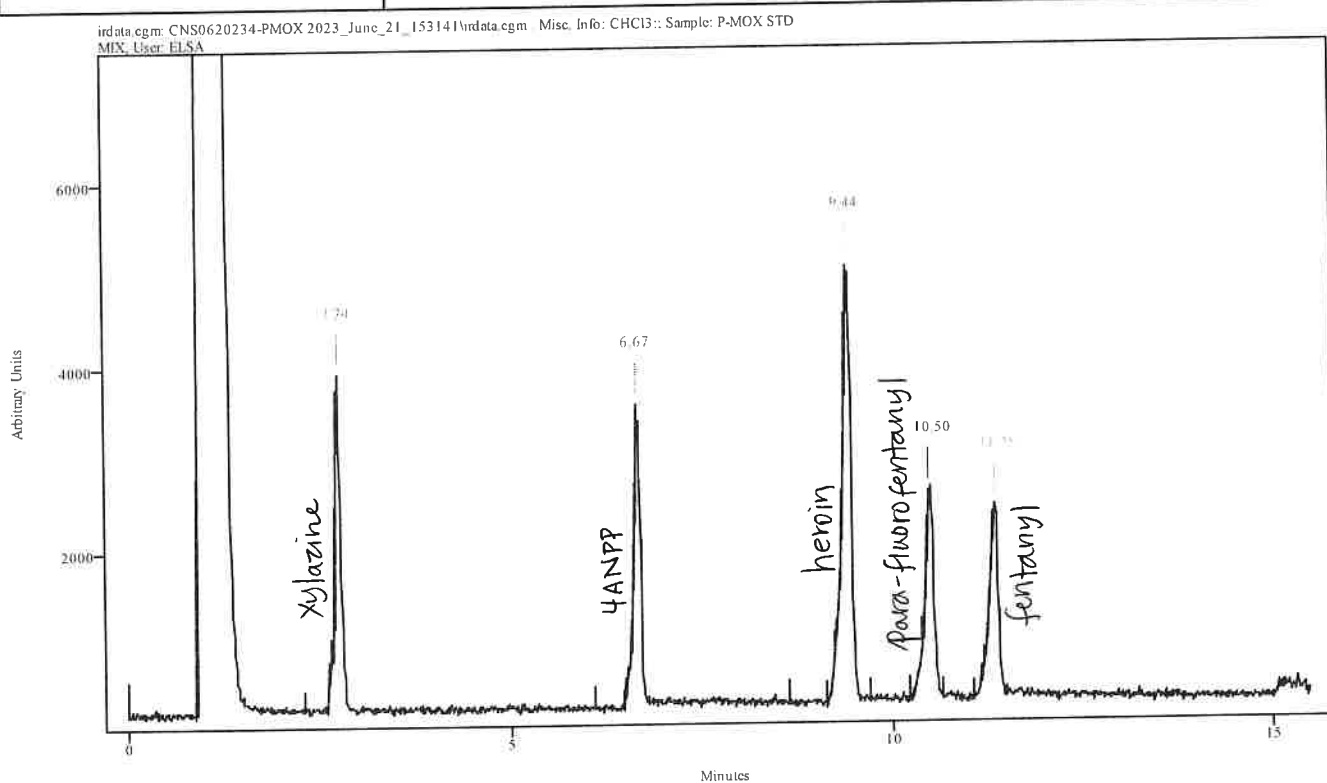
irdata.cgm: CNS0620234-TESTOSTERONE-PRO-B 2023_June_20_192201\irdata.cgm : Misc. Info : TESTOSTERONE
PROPIONATE STD; Sample: METHANOL BLANK; User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End

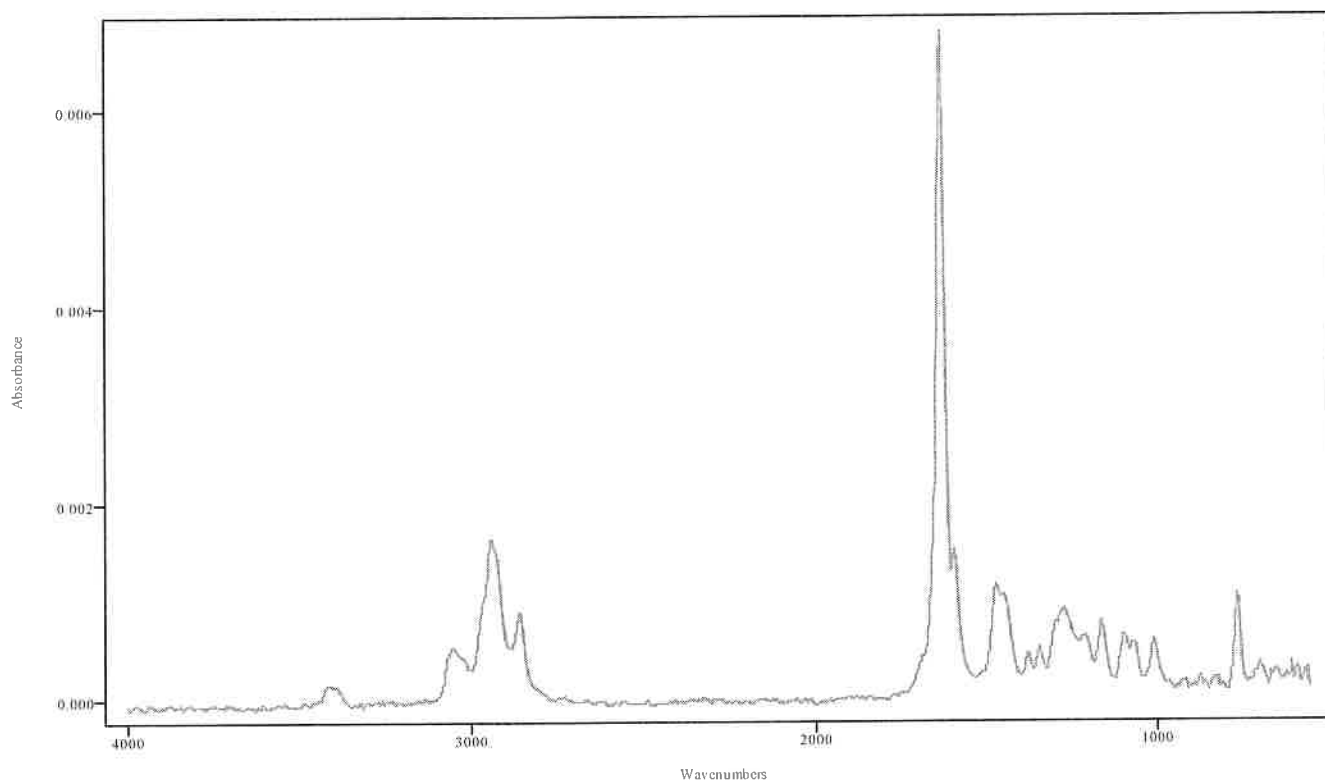
IRD Data Analysis Report

Data Filename	CNS0620234-PMOX 2023_June_21_153141
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 15:51:04 2023
Date Processed	Wed Jun 21 16:12:26 2023



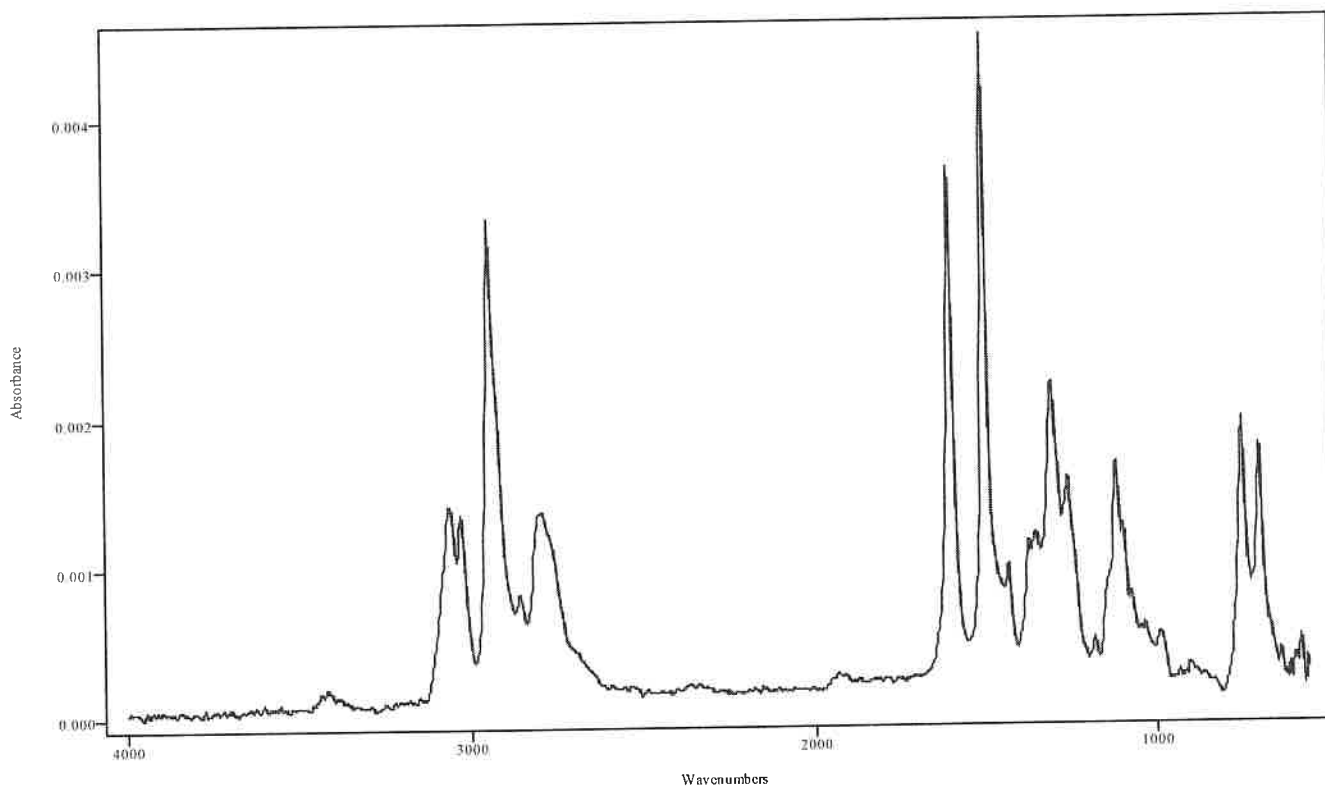
Peak Start	Peak End	Peak Width	Reference Start	Reference End
2.701	2.781	0.080	2.279	2.644
6.610	6.702	0.091	6.098	6.462
9.248	9.482	0.239	8.628	9.129
10.391	10.554	0.160	9.710	10.212
11.194	11.409	0.217	10.645	11.055

Data Filename	CNS0620234-PMOX 2023_June_21_153141
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 15:51:04 2023
Date Processed	Wed Jun 21 16:12:26 2023



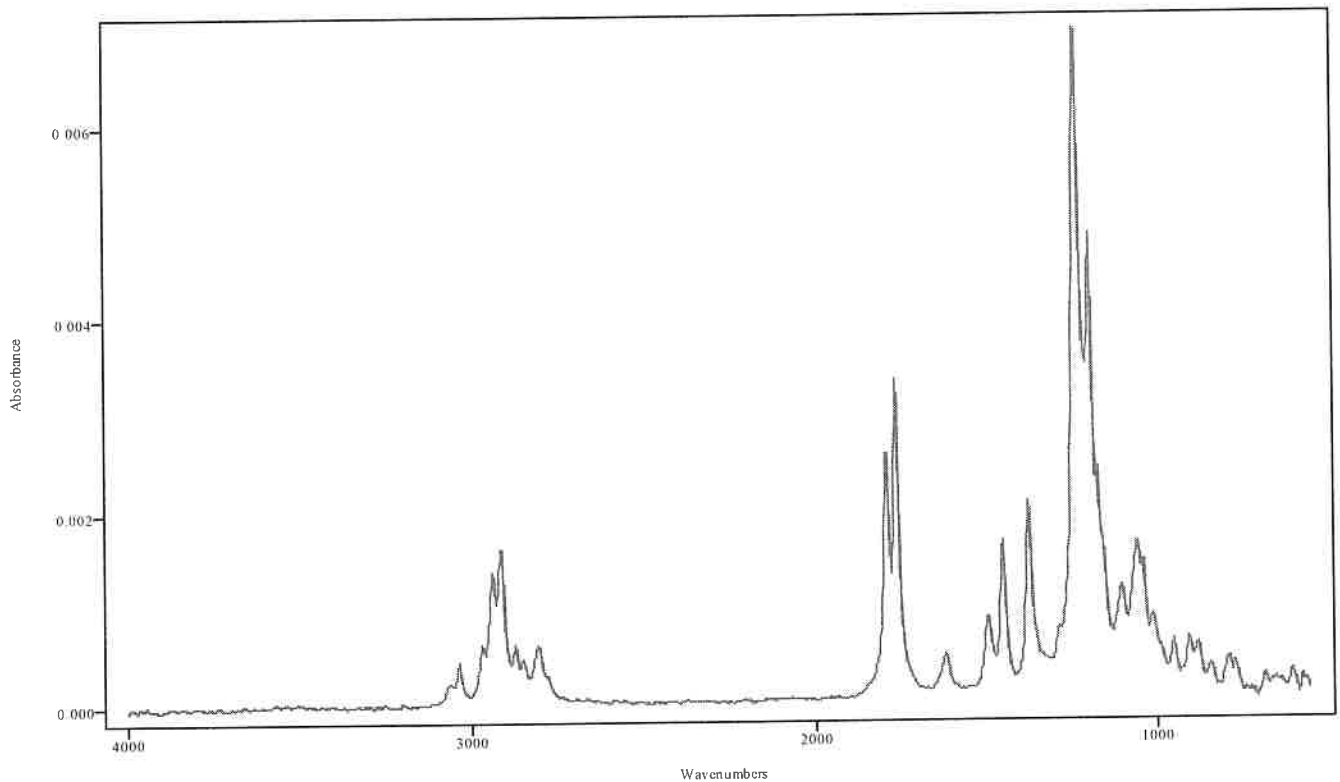
IRDATA.SPC: 2.74 minutes: AVE (2.70: 2.78) Ref. (2.28: 2.64) of CNS0620234-PMOX
2023_June_21_153141.cgm XYLAZINE

Data Filename	CNS0620234-PMOX 2023_June_21_153141
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 15:51:04 2023
Date Processed	Wed Jun 21 16:12:26 2023



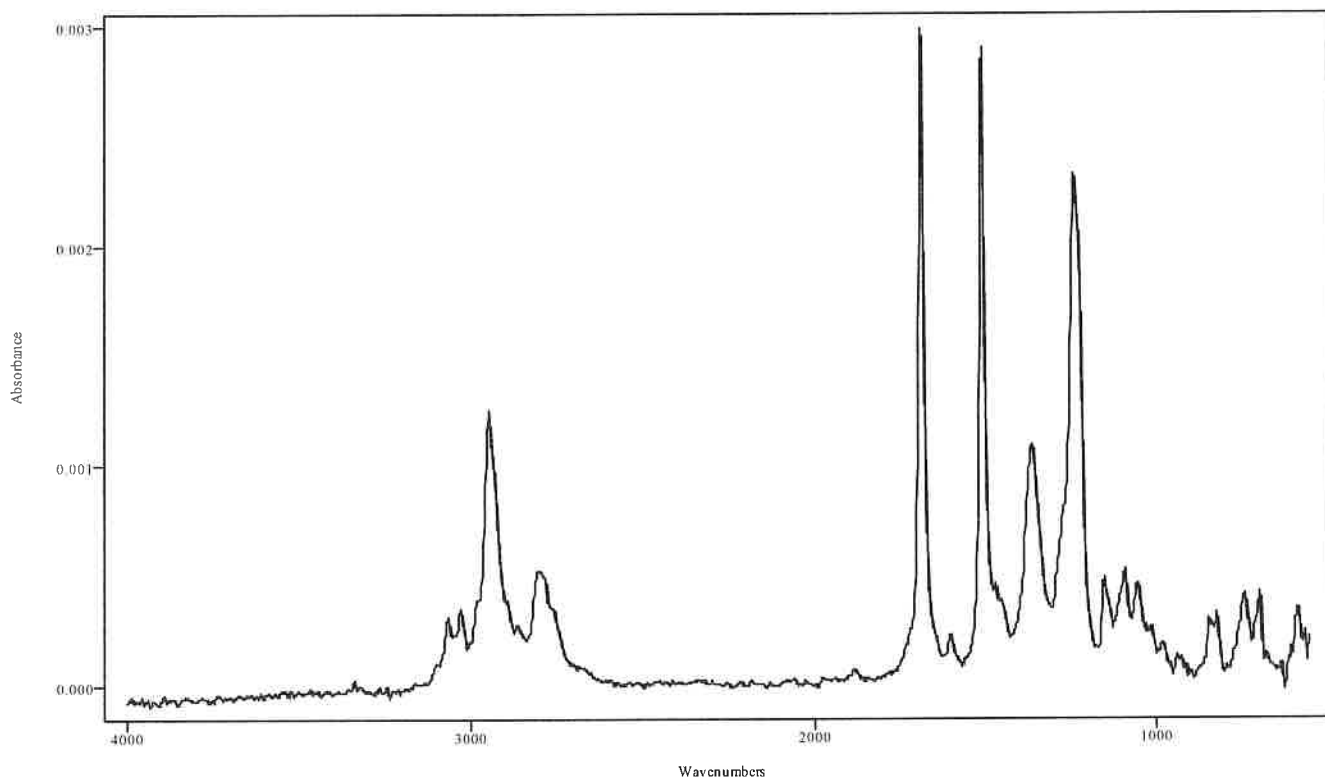
IRDATA.SPC: 6.67 minutes: AVE (6.61: 6.70) Ref. (6.10: 6.46) of CNS0620234-PMOX
2023_June_21_153141.cgm 4-ANPP

Data Filename	CNS0620234-PMOX 2023_June_21_153141
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 15:51:04 2023
Date Processed	Wed Jun 21 16:12:26 2023



IRDATA.SPC: 9.44 minutes: AVE (9.24: 9.48) Ref. (8.63: 9.13) of CNS0620234-PMOX
2023_June_21_153141.cgm HEROIN

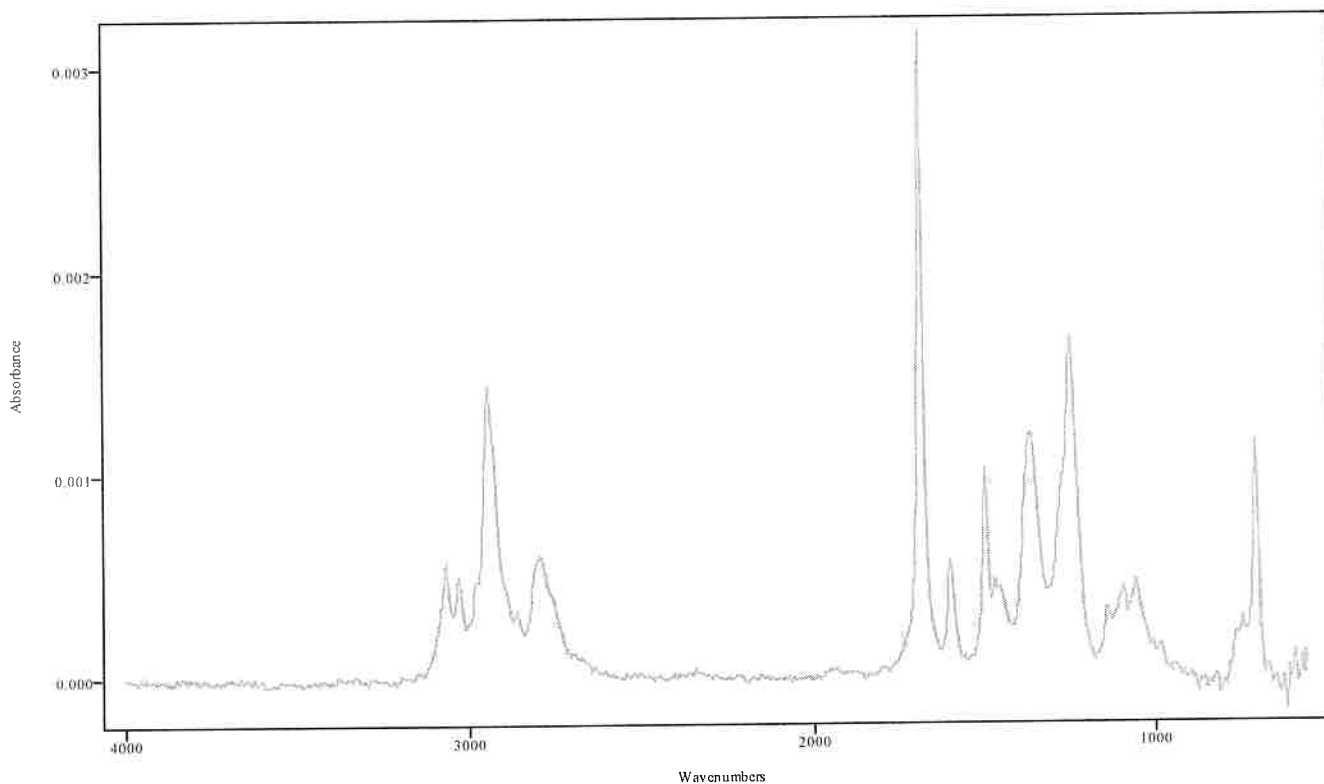
Data Filename	CNS0620234-PMOX 2023_June_21_153141
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 15:51:04 2023
Date Processed	Wed Jun 21 16:12:26 2023



IRDATA.SPC: 10.50 minutes: AVE (10.39: 10.55) Ref. (9.71: 10.21) of CNS0620234-PMOX 2023_June_21_153141.cgm PARA-FLUOROFENTANYL

any
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Data Filename	CNS0620234-PMOX 2023_June_21_153141
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 15:51:04 2023
Date Processed	Wed Jun 21 16:12:26 2023

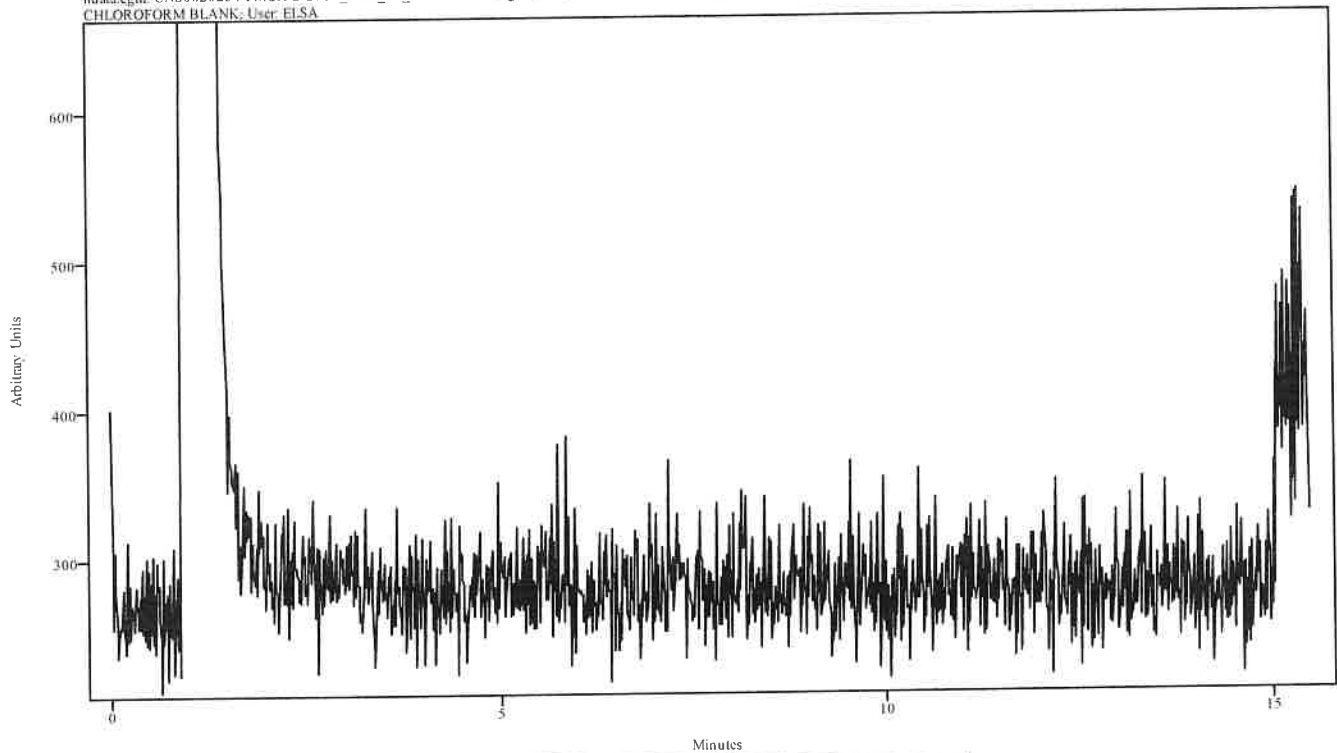


IRDATA.SPC: 11.35 minutes: AVE (11.19: 11.41) Ref. (10.65: 11.06) of CNS0620234-PMOX 2023_June_21_153141.cgm **FENTANYL**

IRD Data Analysis Report

Data Filename	CNS0620234-PMOX-B 2023_June_21_151214
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	ISO270(15MIN)
GC Vial	12
Sample Name	CHLOROFORM BLANK
Misc. Info	:P-MOX STD MIX
User ID	ELSA
Injection Time	Wed Jun 21 15:31:41 2023
Date Processed	Wed Jun 21 16:05:50 2023

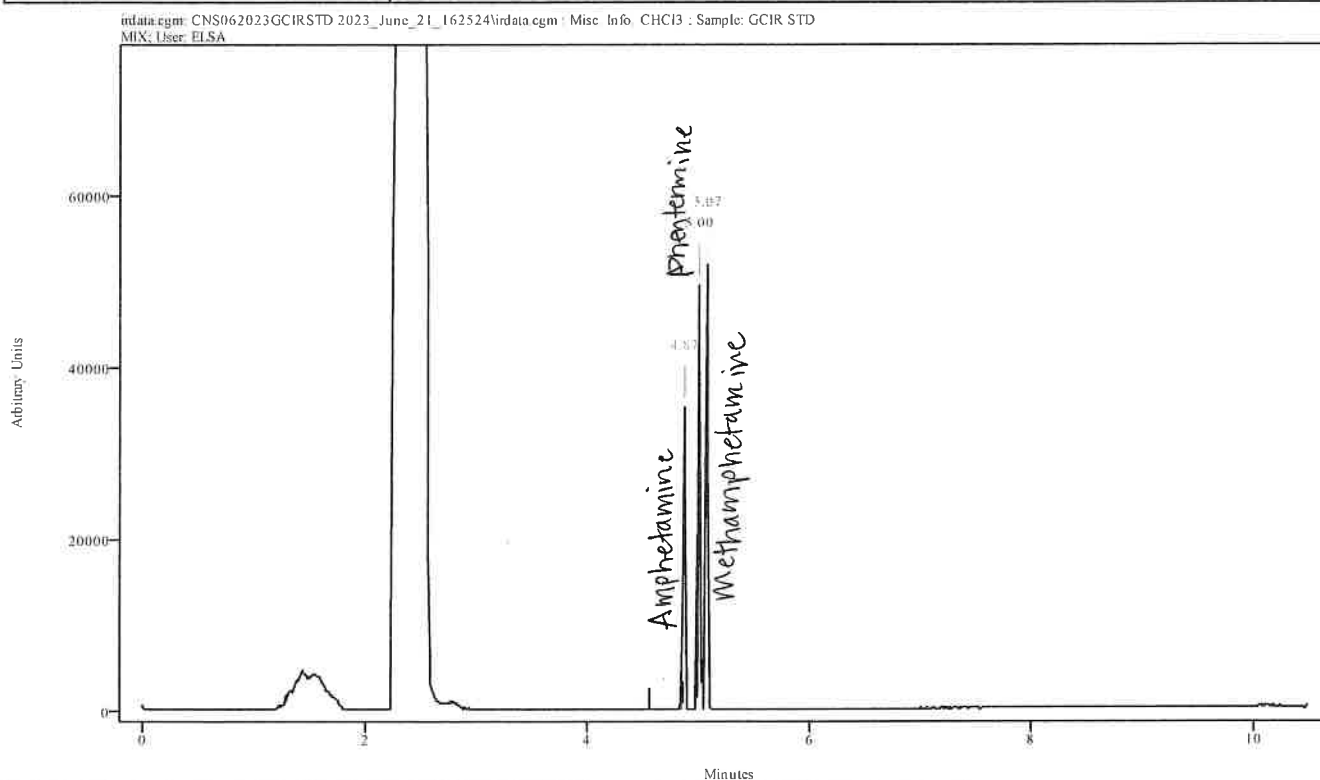
irdata.cgm: CNS0620234-PMOX-B 2023_June_21_151214\irdata.cgm ; Misc. Info: :P-MOX STD MIX; Sample:
CHLOROFORM BLANK; User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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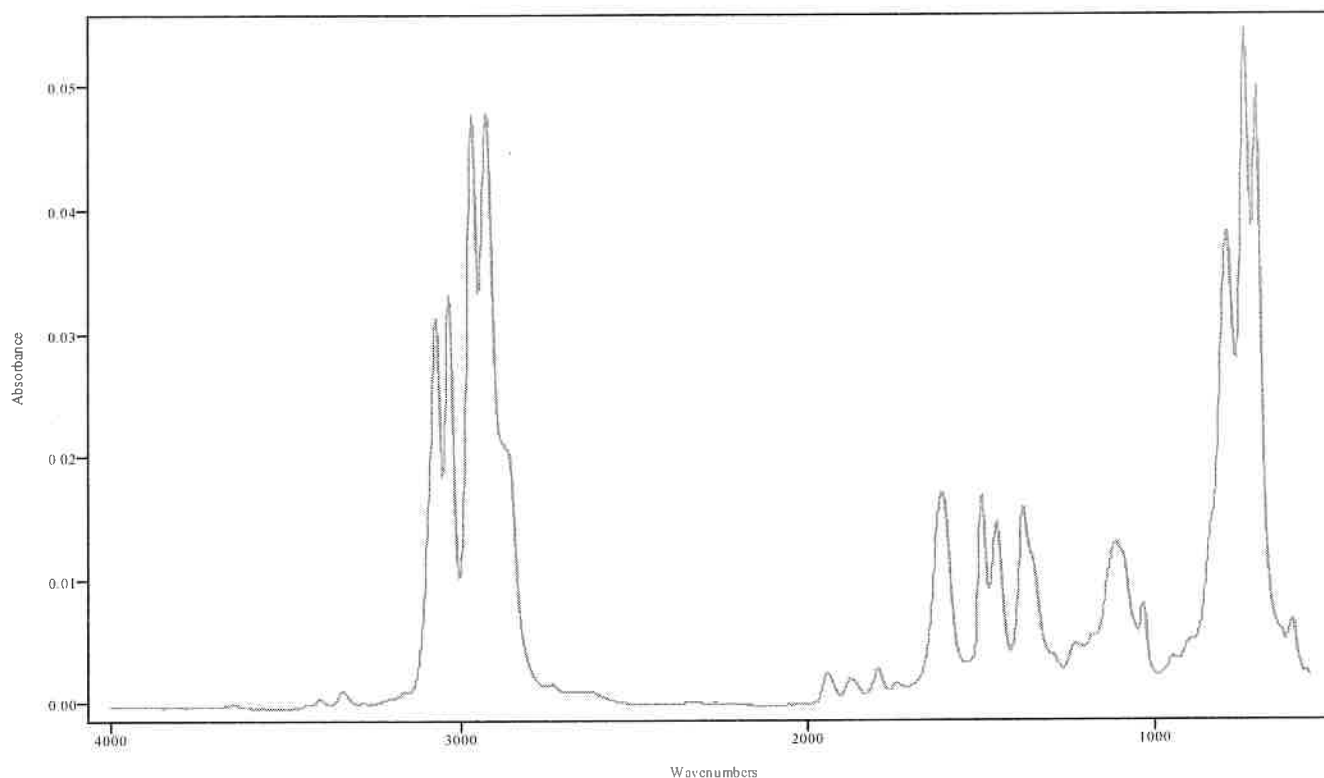
IRD Data Analysis Report

Data Filename	CNS062023GCIRSTD 2023_June_21_162524
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL60TO270
GC Vial	3
Sample Name	GCIR STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 16:39:36 2023
Date Processed	Thu Jun 22 09:36:27 2023



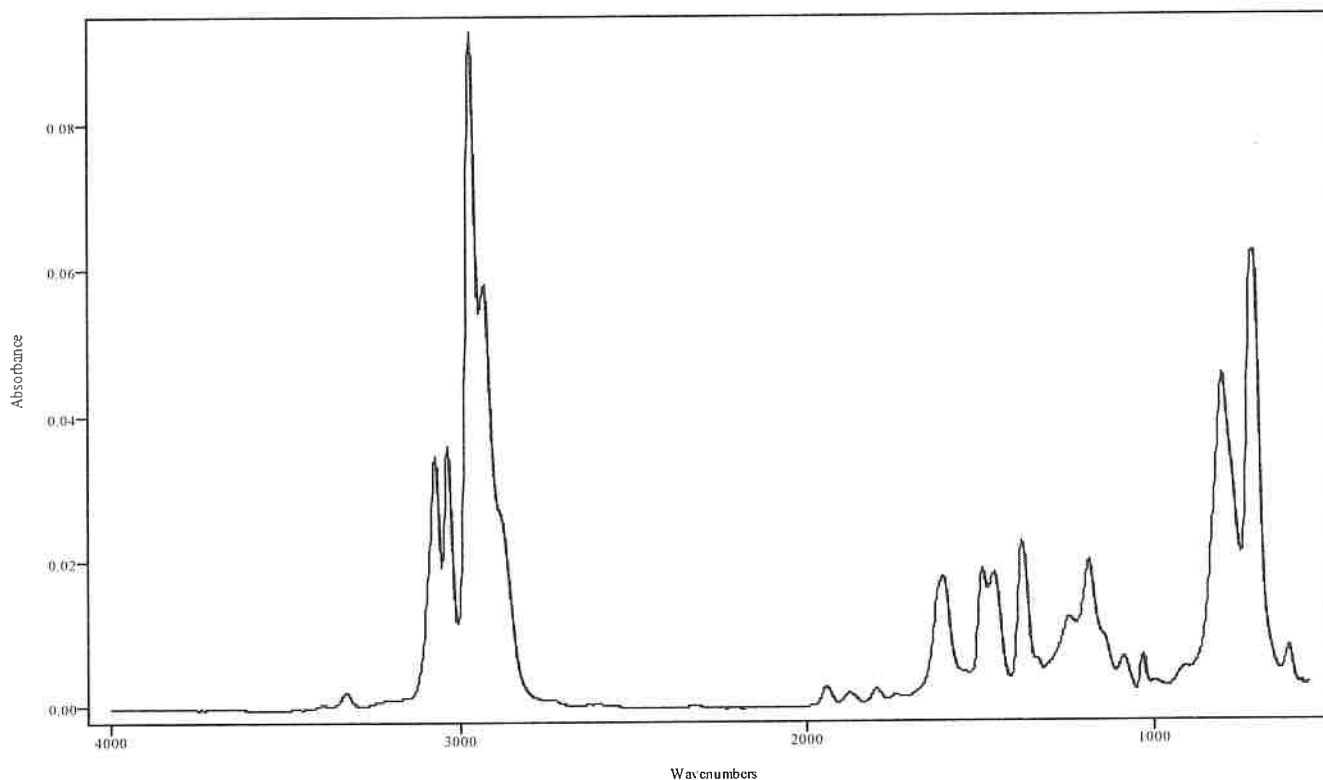
Peak Start	Peak End	Peak Width	Reference Start	Reference End
4.849	4.889	0.046	4.559	4.832
4.987	5.026	0.034	4.559	4.832
5.049	5.094	0.046	4.559	4.832

Data Filename	CNS062023GCIRSTD 2023_June_21_162524
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL60TO270
GC Vial	3
Sample Name	GCIR STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 16:39:36 2023
Date Processed	Thu Jun 22 09:36:27 2023



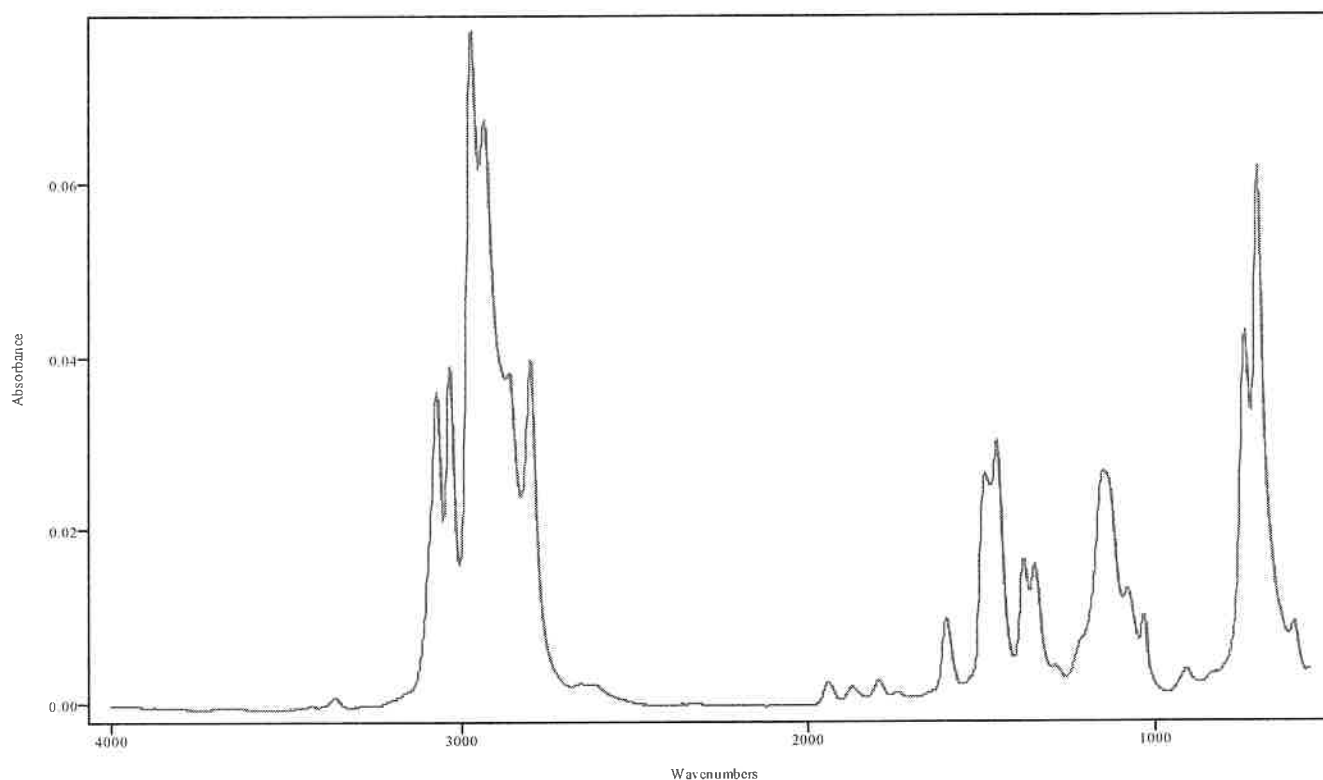
IRDATA.SPC: 4.87 minutes: AVE (4.84: 4.89) Ref. (4.56: 4.83) of CNS062023GCIRSTD 2023_June_21_162524.cgm **AMPHETAMINE**

Data Filename	CNS062023GCIRSTD 2023_June_21_162524
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL60TO270
GC Vial	3
Sample Name	GCIR STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 16:39:36 2023
Date Processed	Thu Jun 22 09:36:27 2023



IRDATA.SPC: 5.00 minutes: AVE (4.99: 5.03) Ref. (4.56: 4.83) of CNS062023GCIRSTD
2023_June_21_162524.cgm PHENTERMINE

Data Filename	CNS062023GCIRSTD 2023_June_21_162524
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL60TO270
GC Vial	3
Sample Name	GCIR STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 16:39:36 2023
Date Processed	Thu Jun 22 09:36:27 2023

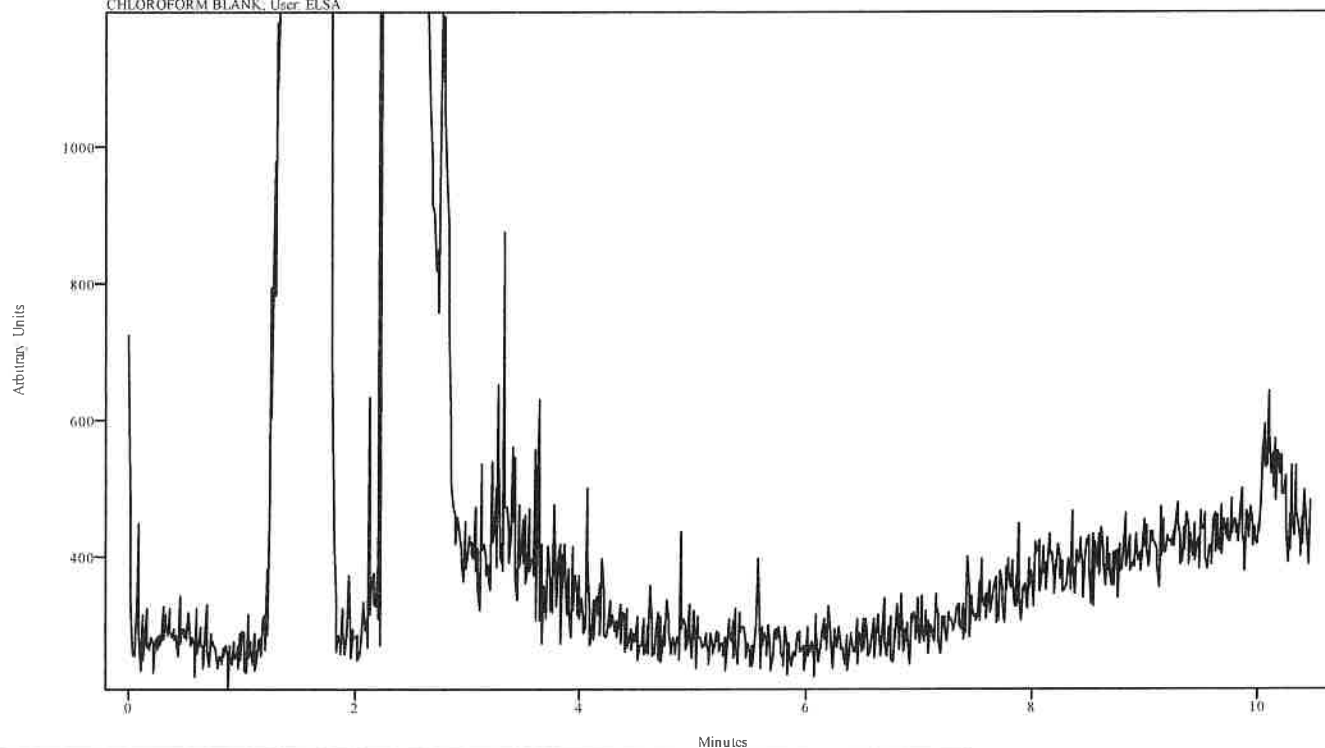


IRDATA.SPC: 5.07 minutes: AVE (5.05: 5.09) Ref. (4.56: 4.83) of CNS062023GCIRSTD 2023_June_21_162524.cgm METHAMPHETAMINE

IRD Data Analysis Report

Data Filename	CNS062023GCIRSTD-B 2023_June_21_161028
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL60TO270
GC Vial	12
Sample Name	CHLOROFORM BLANK
Misc. Info	:GCIR STD MIX
User ID	ELSA
Injection Time	Wed Jun 21 16:25:24 2023
Date Processed	Thu Jun 22 09:34:55 2023

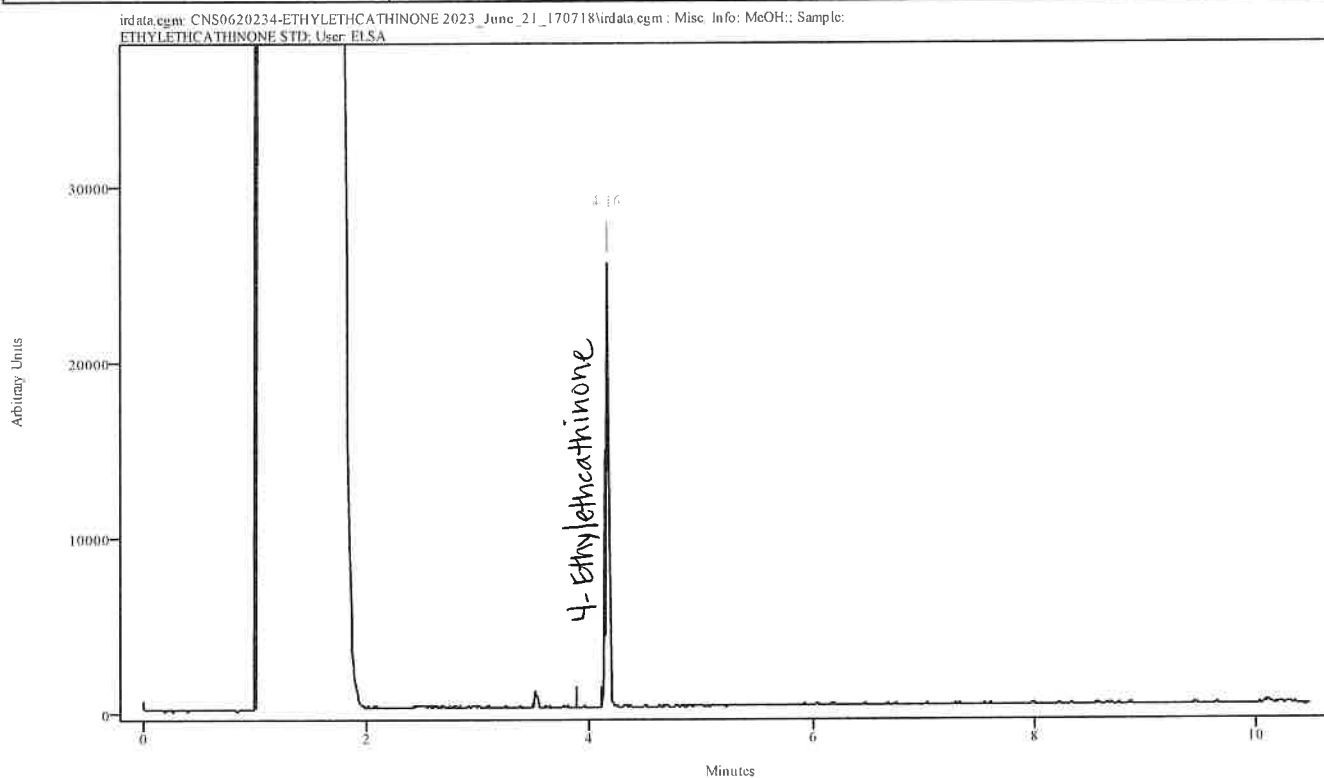
irdata.cgm: CNS062023GCIRSTD-B 2023_June_21_161028\irdata.cgm : Misc. Info: :GCIR STD MIX; Sample: CHLOROFORM BLANK; User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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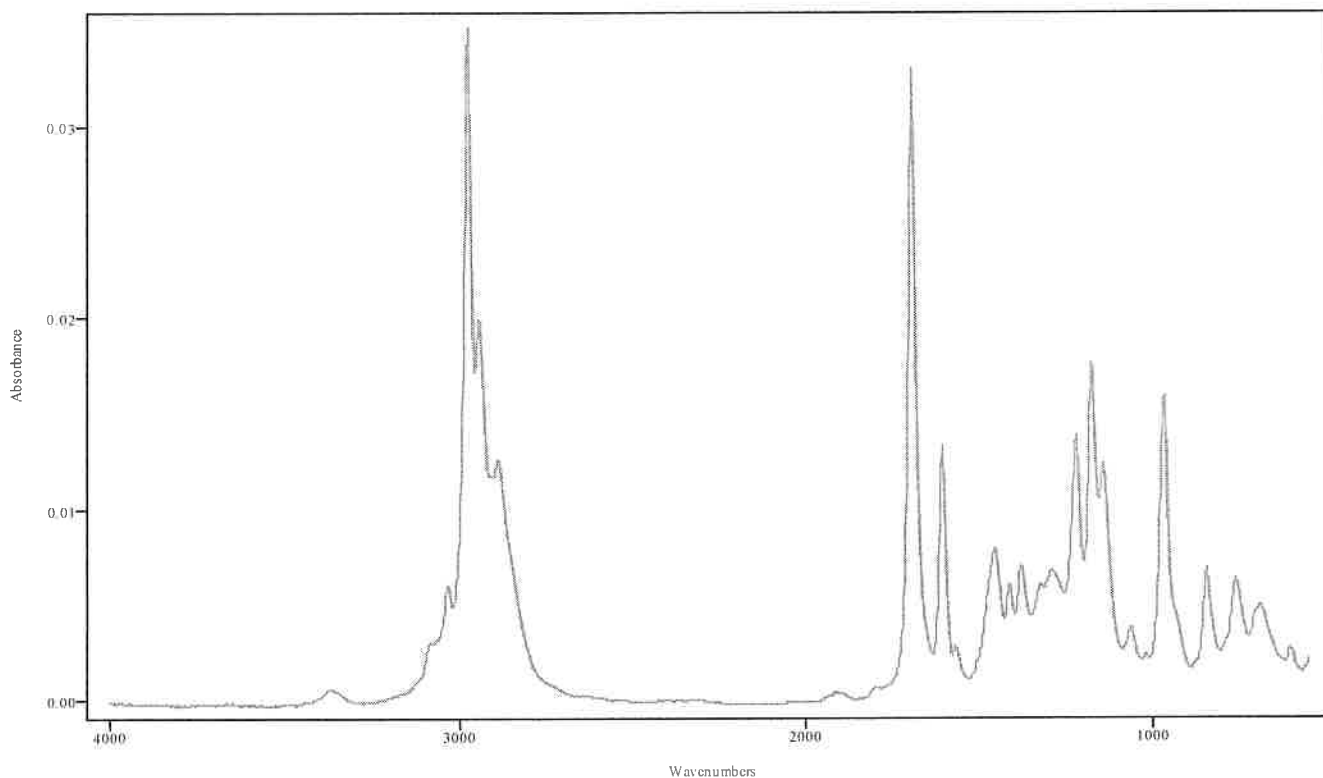
IRD Data Analysis Report

Data Filename	CNS0620234-ETHYLETHCATHINONE 2023_June_21_170718
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270
GC Vial	4
Sample Name	4-ETHYLETHCATHINONE STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Wed Jun 21 17:20:20 2023
Date Processed	Thu Jun 22 09:41:13 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
4.136	4.182	0.046	3.885	4.113

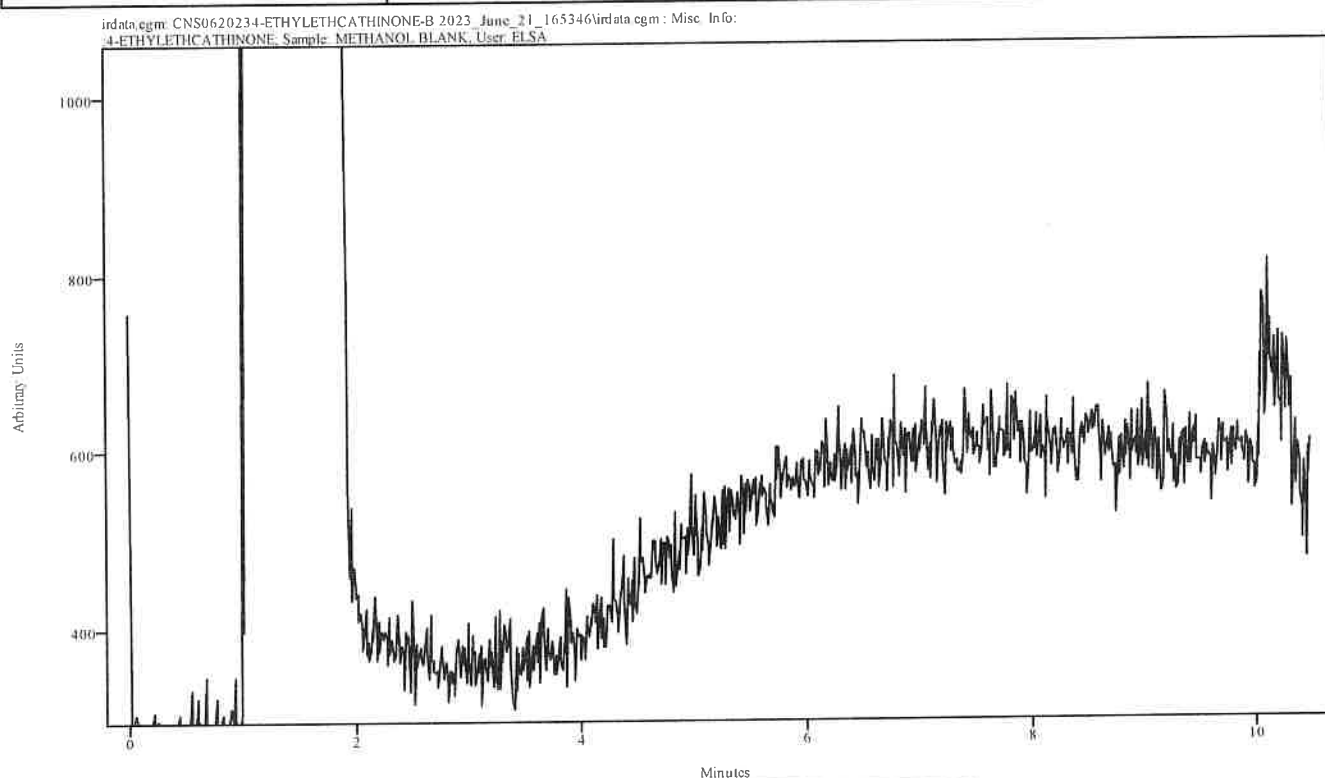
Data Filename	CNS0620234-ETHYLETHCATHINONE 2023_June_21_170718
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270
GC Vial	4
Sample Name	ETHYLETHCATHINONE STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Wed Jun 21 17:20:20 2023
Date Processed	Thu Jun 22 09:41:13 2023



IRDATA.SPC: 4.16 minutes: AVE (4.14: 4.18) Ref. (3.88: 4.11) of
CNS0620234-ETHYLETHCATHINONE 2023_June_21_170718.cgm 4-ETHYLETHCATHINONE

IRD Data Analysis Report

Data Filename	CNS0620234-ETHYLETHCATHINONE-B 2023_June_21_165346
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270
GC Vial	11
Sample Name	METHANOL BLANK
Misc. Info	:4-ETHYLETHCATHINONE
User ID	ELSA
Injection Time	Wed Jun 21 17:07:18 2023
Date Processed	Thu Jun 22 09:39:24 2023

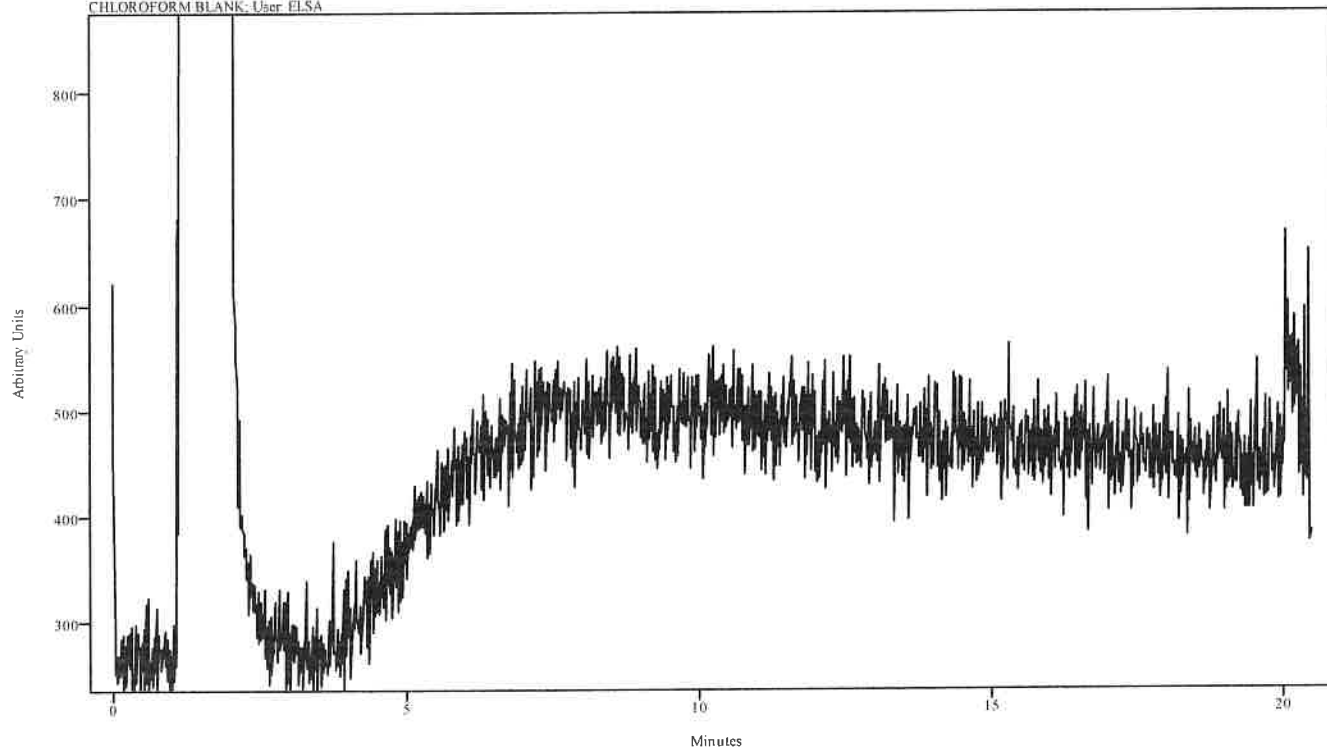


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

Data Filename	CNS0620234-PMOX-B 2023_June_21_173328
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270(20MIN)
GC Vial	12
Sample Name	CHLOROFORM BLANK
Misc. Info	:P-MOX STD MIX
User ID	ELSA
Injection Time	Wed Jun 21 17:56:31 2023
Date Processed	Thu Jun 22 09:43:10 2023

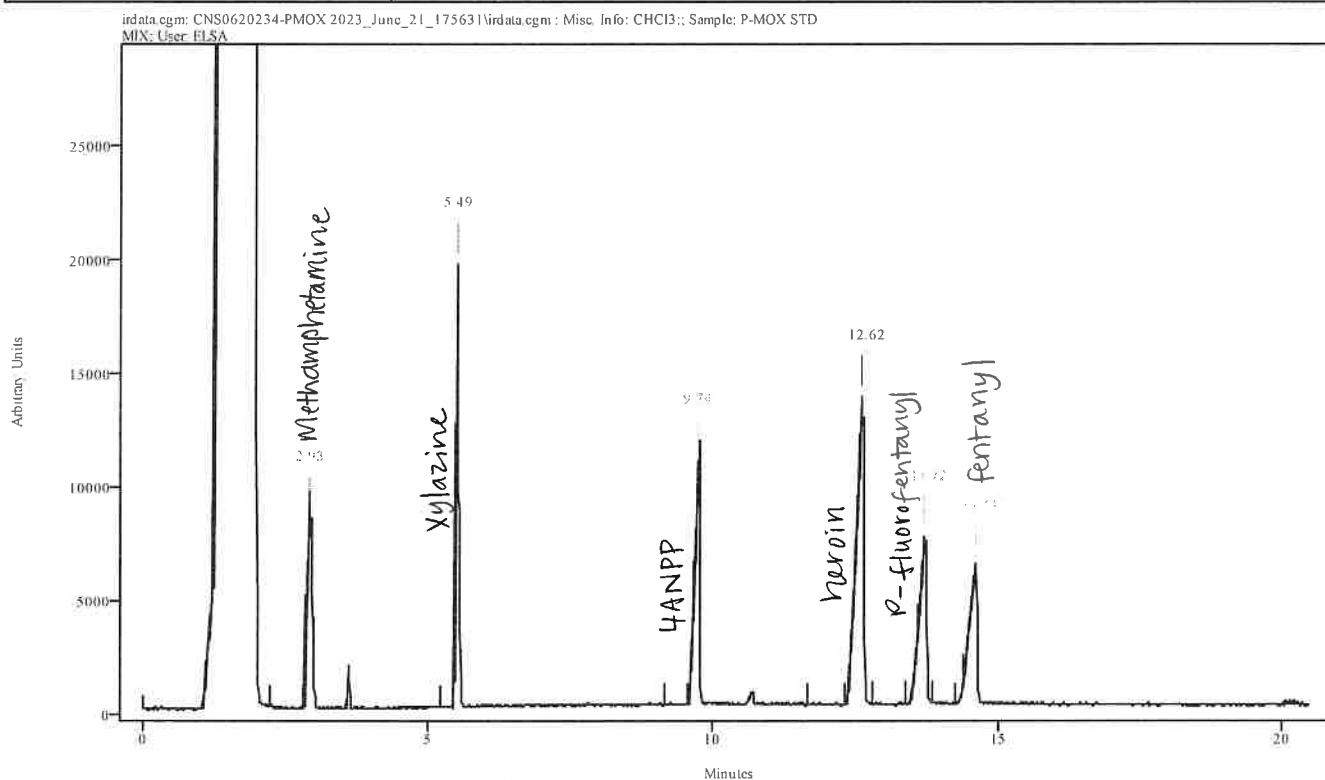
irdata.cgm: CNS0620234-PMOX-B 2023_June_21_173328\irdata.cgm : Misc. Info: :P-MOX STD MIX; Sample: CHLOROFORM BLANK; User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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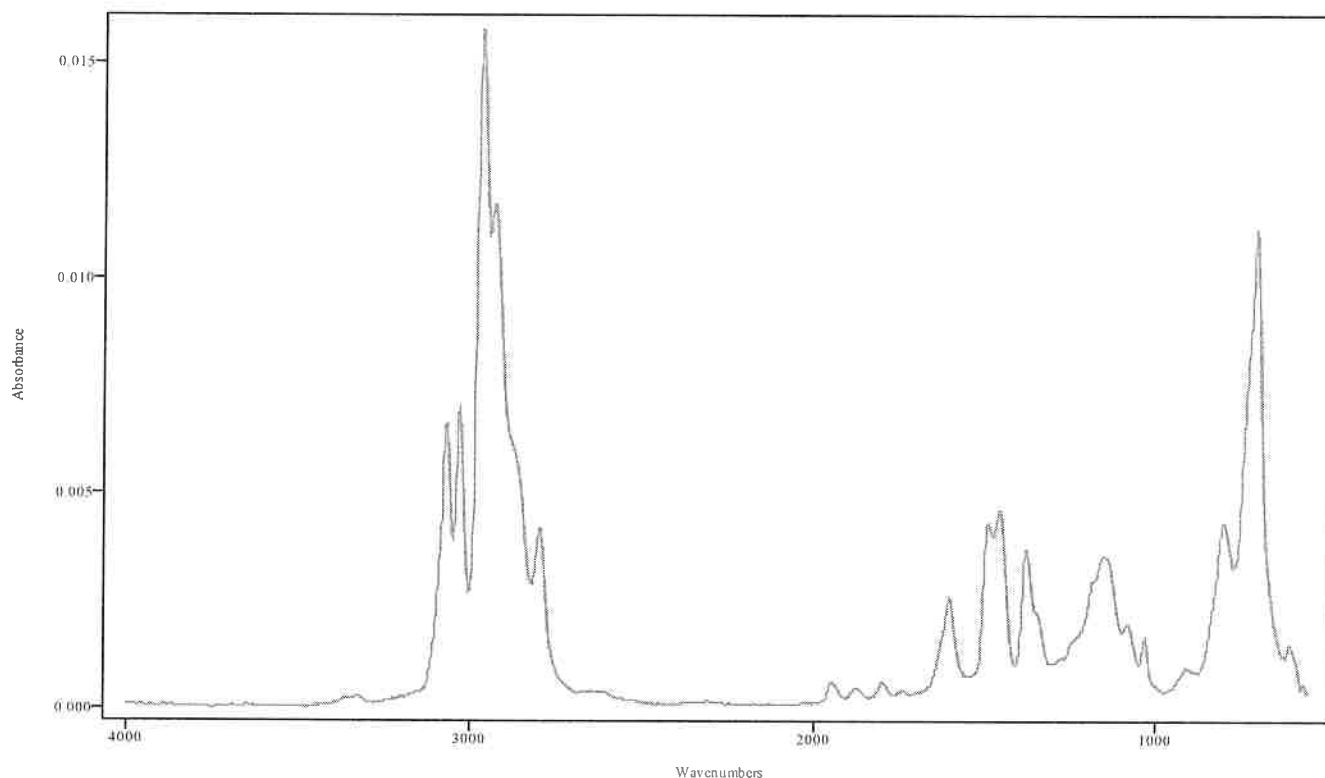
IRD Data Analysis Report

Data Filename	CNS0620234-PMOX 2023_June_21_175631
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 18:19:36 2023
Date Processed	Thu Jun 22 09:45:31 2023



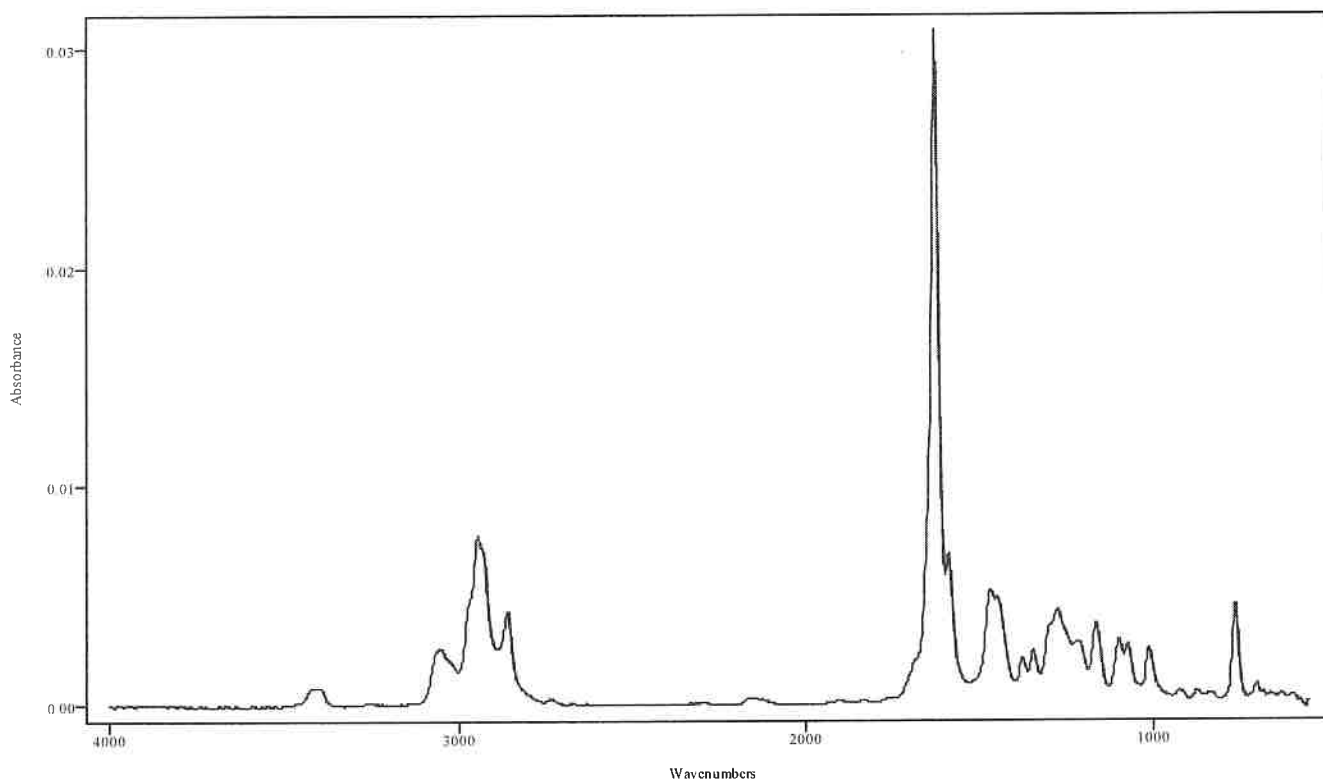
Peak Start	Peak End	Peak Width	Reference Start	Reference End
2.848	2.985	0.137	2.233	2.826
5.469	5.554	0.080	5.207	5.435
9.673	9.776	0.103	9.138	9.548
12.499	12.658	0.160	11.678	12.316
13.604	13.752	0.148	12.783	13.376
14.410	14.652	0.239	13.854	14.265

Data Filename	CNS0620234-PMOX 2023_June_21_175631
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 18:19:36 2023
Date Processed	Thu Jun 22 09:45:31 2023



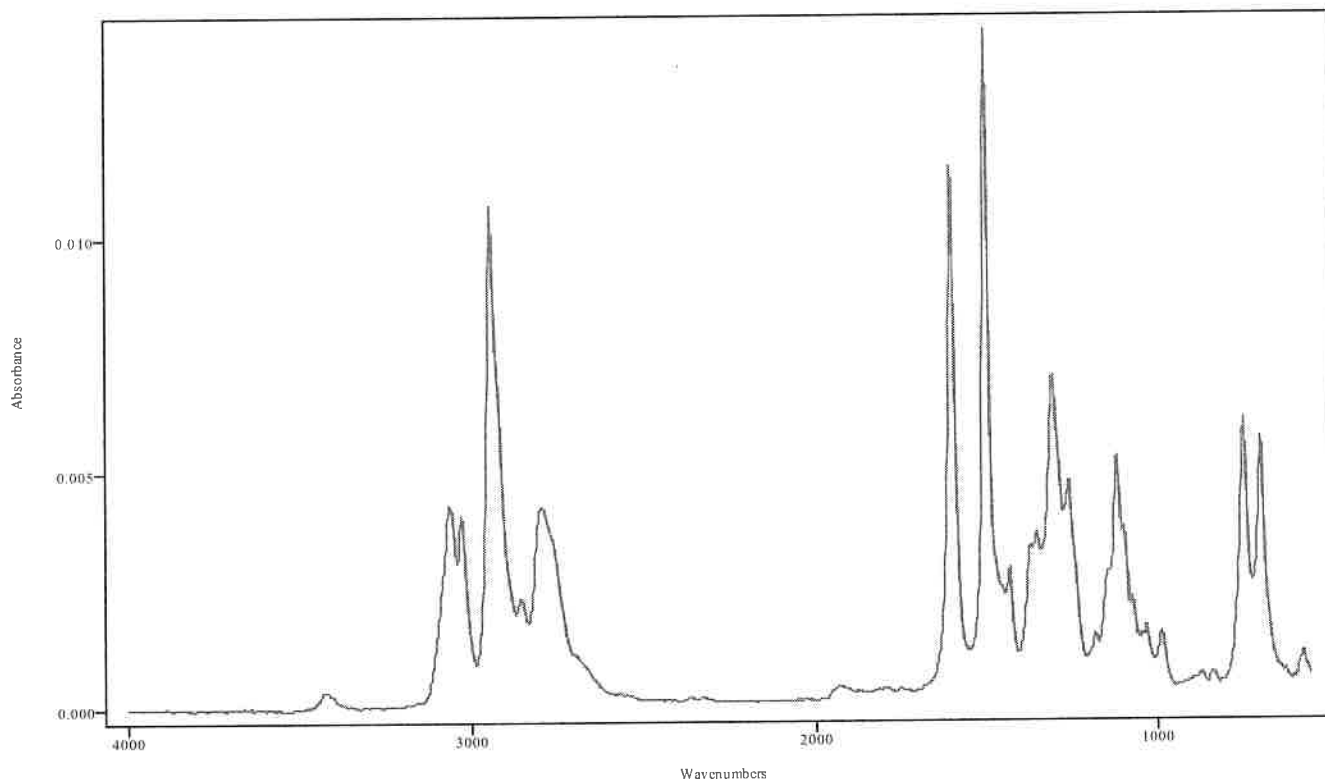
IRDATA.SPC: 2.93 minutes: AVE (2.85: 2.99) Ref. (2.23: 2.83) of CNS0620234-PMOX
2023_June_21_175631.cgm **METHAMPHETAMINE**

Data Filename	CNS0620234-PMOX 2023_June_21_175631
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3
User ID	ELSA
Injection Time	Wed Jun 21 18:19:36 2023
Date Processed	Thu Jun 22 09:45:31 2023



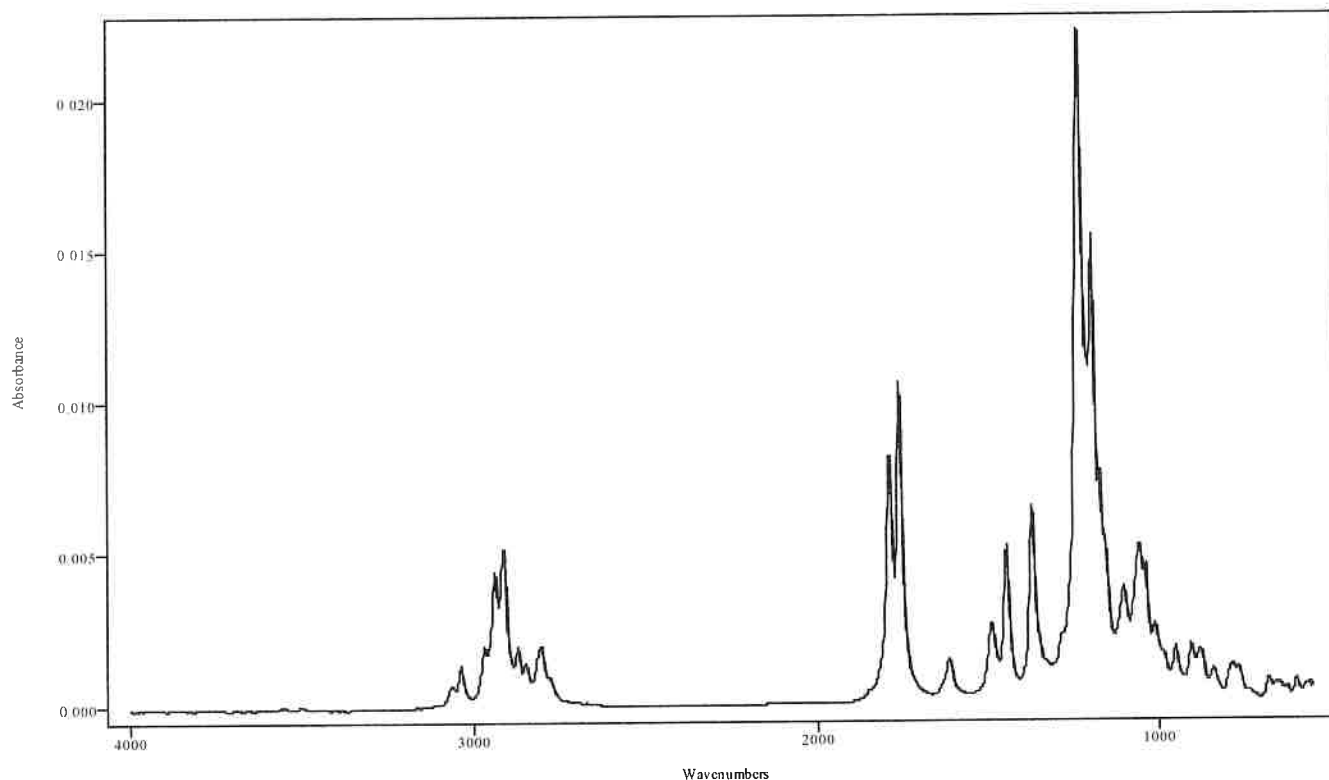
IRDATA.SPC: 5.49 minutes: AVE (5.47: 5.55) Ref. (5.21: 5.43) of CNS0620234-PMOX
2023_June_21_175631.cgm XYLAZINE

Data Filename	CNS0620234-PMOX 2023_June_21_175631
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 18:19:36 2023
Date Processed	Thu Jun 22 09:45:31 2023



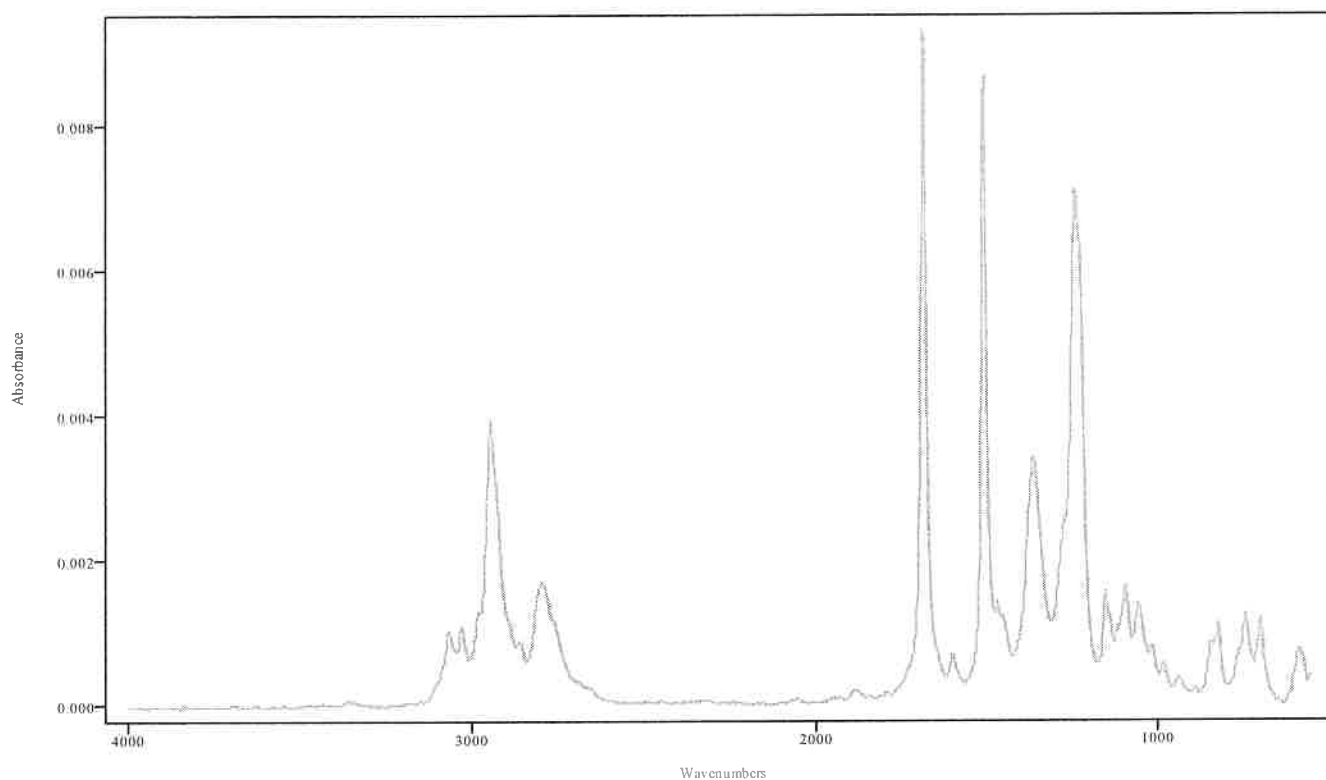
IRDATA.SPC: 9.74 minutes: AVE (9.67: 9.78) Ref. (9.14: 9.55) of CNS0620234-PMOX
2023_June_21_175631.cgm 4-ANPP

Data Filename	CNS0620234-PMOX 2023_June_21_175631
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 18:19:36 2023
Date Processed	Thu Jun 22 09:45:31 2023



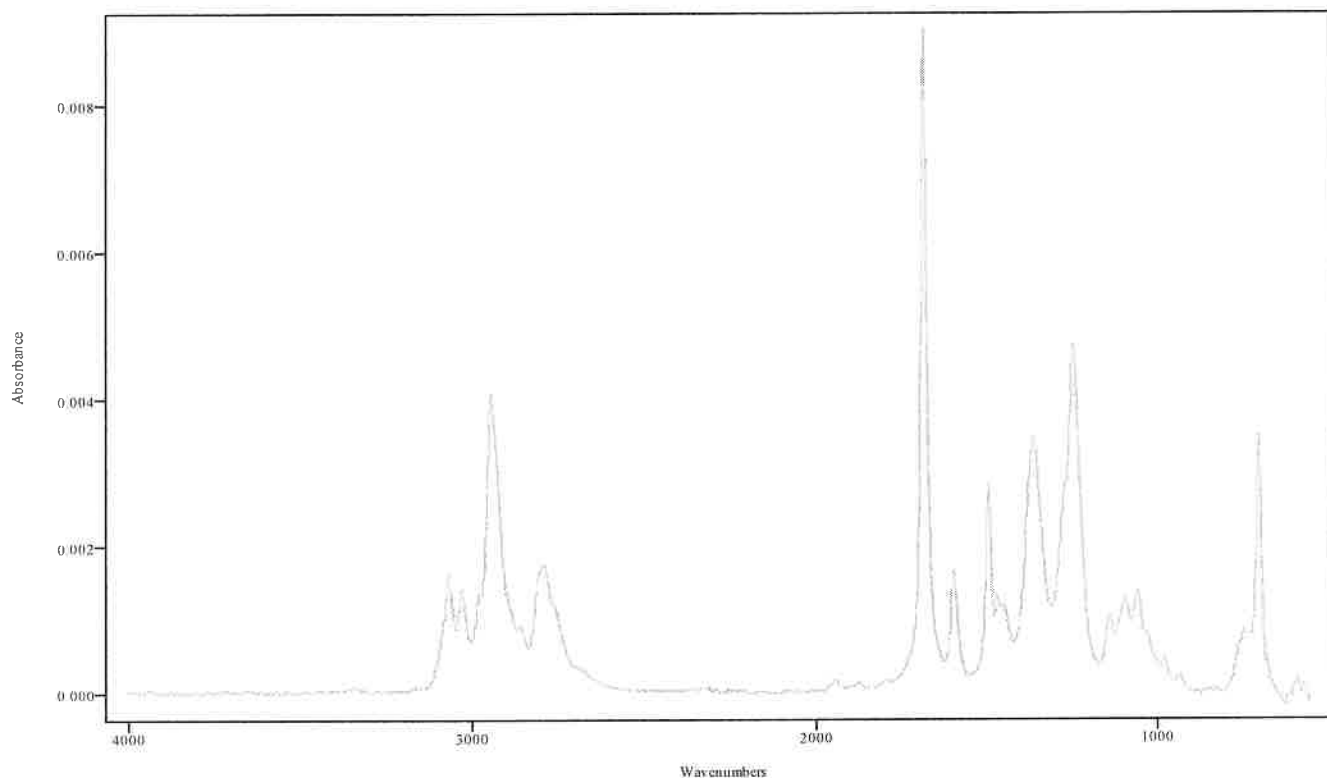
IRDATA.SPC: 12.62 minutes: AVE (12.50: 12.66) Ref. (11.68: 12.32) of CNS0620234-PMOX 2023_June_21_175631.cgm HEROIN

Data Filename	CNS0620234-PMOX 2023_June_21_175631
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 18:19:36 2023
Date Processed	Thu Jun 22 09:45:31 2023



IRDATA.SPC: 13.72 minutes: AVE (13.60: 13.75) Ref. (12.78: 13.38) of CNS0620234-PMOX 2023_June_21_175631.cgm **PARA-FLUOROFENTANYL**

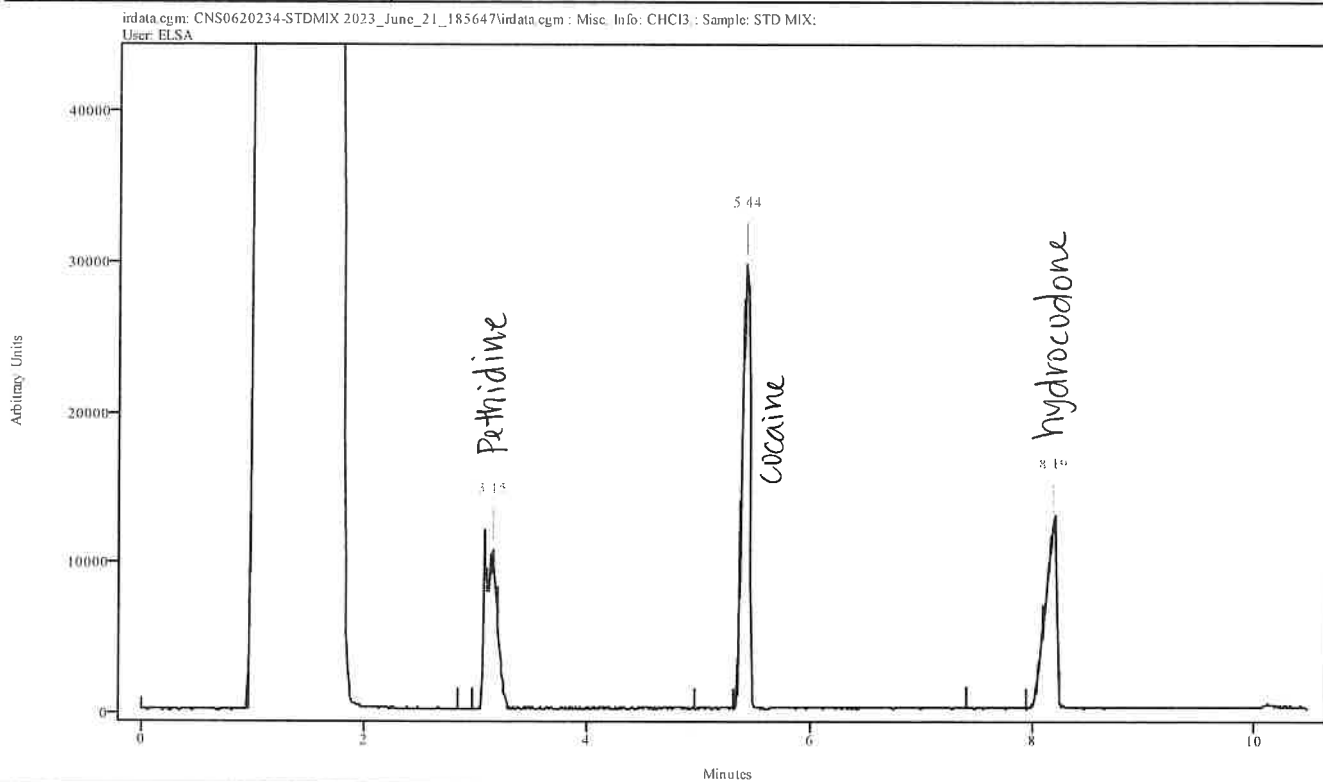
Data Filename	CNS0620234-PMOX 2023_June_21_175631
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL120TO270(20MIN)
GC Vial	5
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 18:19:36 2023
Date Processed	Thu Jun 22 09:45:31 2023



IRDATA:SPC: 14.61 minutes: AVE (14.41: 14.65) Ref. (13.85: 14.26) of CNS0620234-PMOX
2023_June_21_175631.cgm: FENTANYL

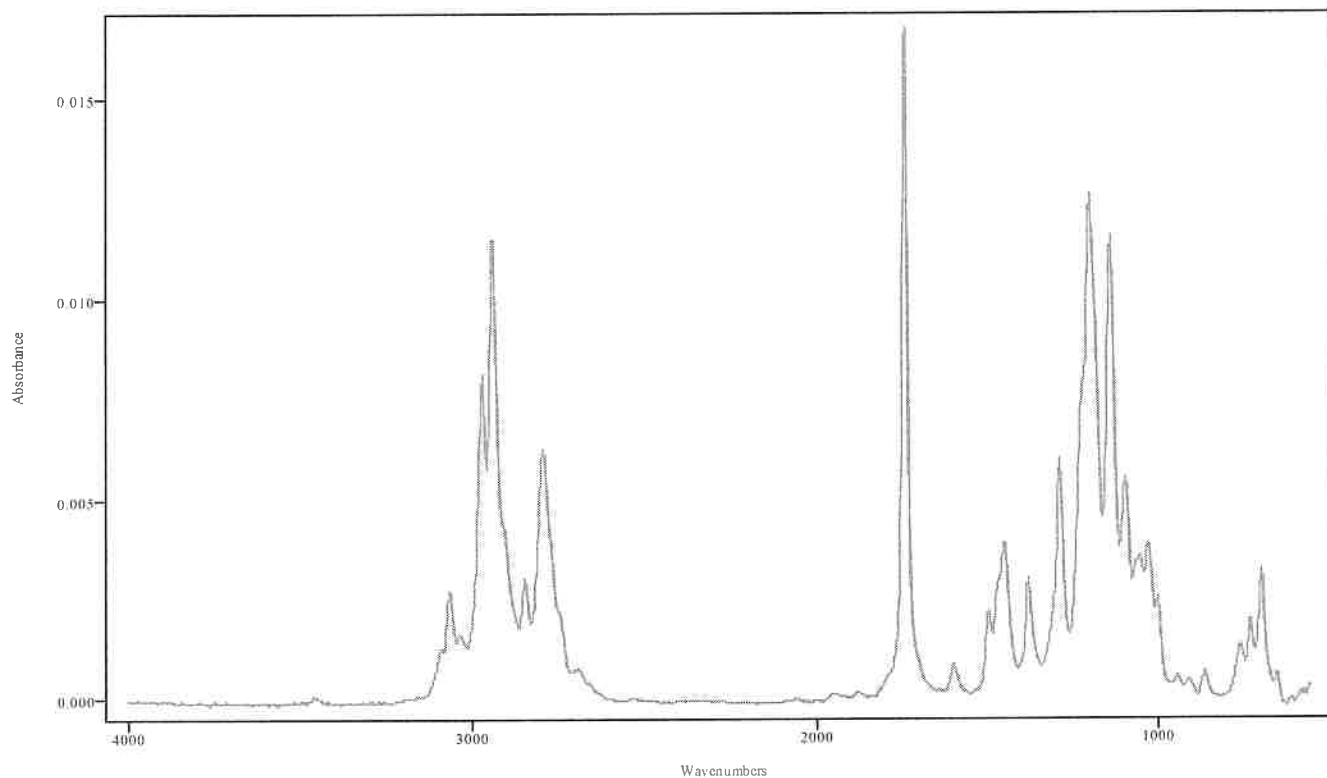
IRD Data Analysis Report

Data Filename	CNS0620234-STD MIX 2023_June_21_185647
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL200TO270
GC Vial	6
Sample Name	STD MIX
Misc. Info	CHCl3;
User ID	ELSA
Injection Time	Wed Jun 21 19:09:47 2023
Date Processed	Thu Jun 22 09:48:23 2023



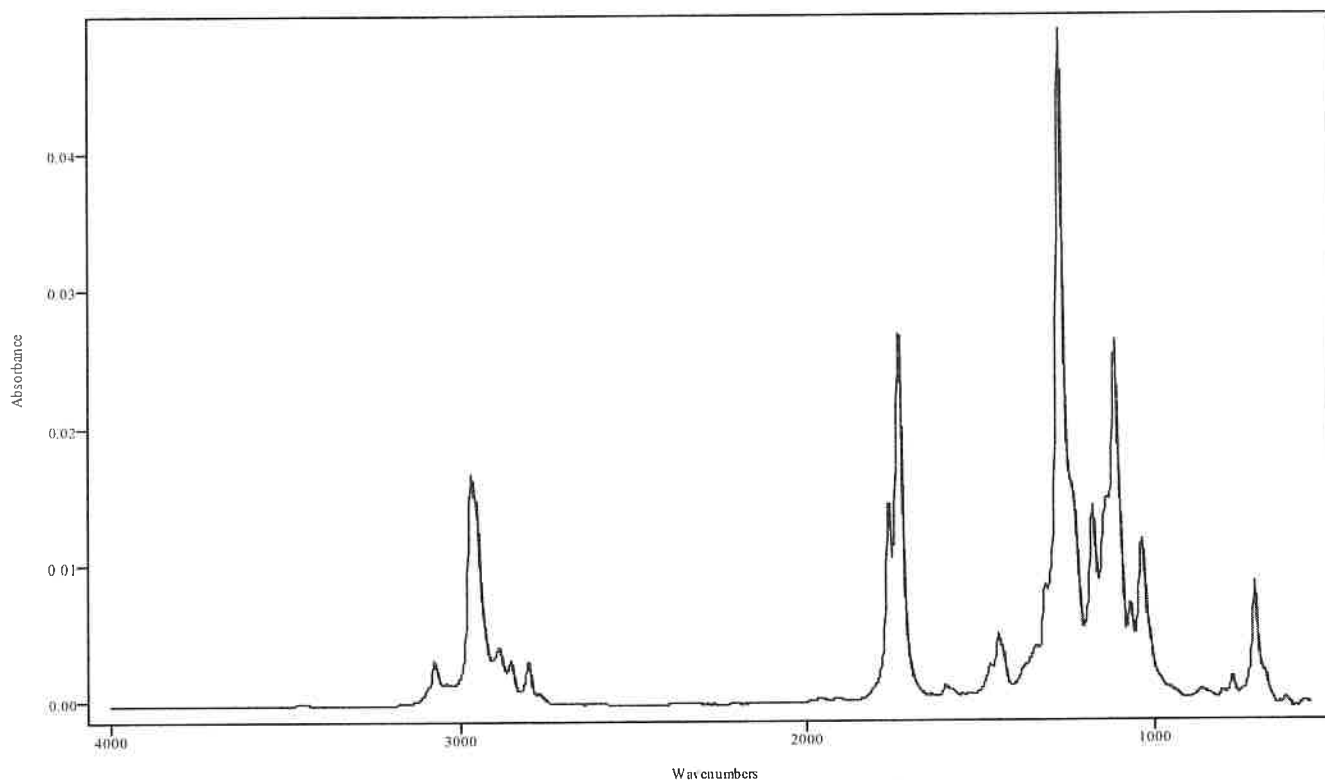
Peak Start	Peak End	Peak Width	Reference Start	Reference End
3.073	3.187	0.114	2.845	2.972
5.381	5.472	0.091	4.958	5.324
8.100	8.237	0.137	7.403	7.951

Data Filename	CNS0620234-STD MIX 2023_June_21_185647
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL200TO270
GC Vial	6
Sample Name	STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 19:09:47 2023
Date Processed	Thu Jun 22 09:48:23 2023



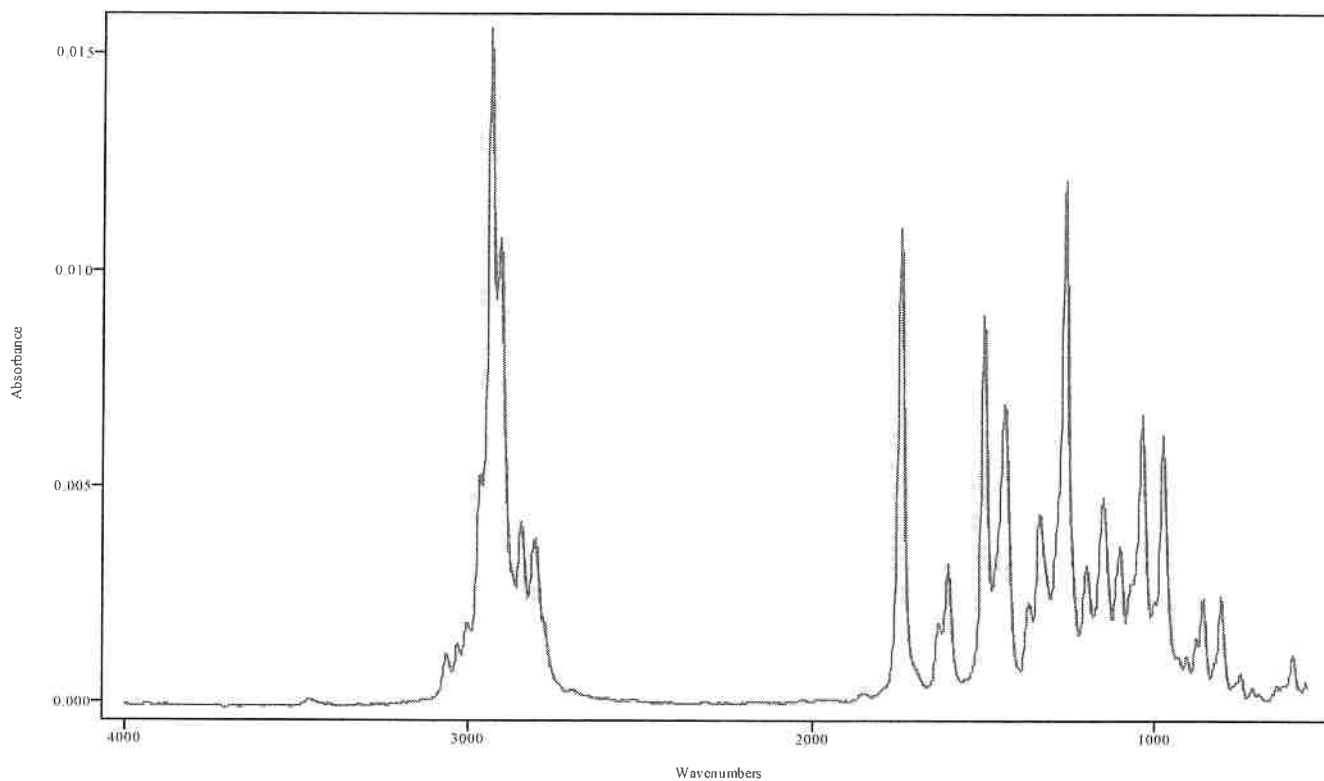
IRDATA.SPC: 3.15 minutes: AVE (3.07: 3.19) Ref. (2.84: 2.97) of CNS0620234-STD MIX
2023_June_21_185647.cgm PETHIDINE

Data Filename	CNS0620234-STD MIX 2023_June_21_185647
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL200TO270
GC Vial	6
Sample Name	STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 19:09:47 2023
Date Processed	Thu Jun 22 09:48:23 2023



IRDATA.SPC: 5.44 minutes: AVE (5.38: 5.47) Ref. (4.96: 5.32) of CNS0620234-STD MIX
2023_June_21_185647.cgm COCAINE

Data Filename	CNS0620234-STD MIX 2023_June_21_185647
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL200TO270
GC Vial	6
Sample Name	STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 19:09:47 2023
Date Processed	Thu Jun 22 09:48:23 2023

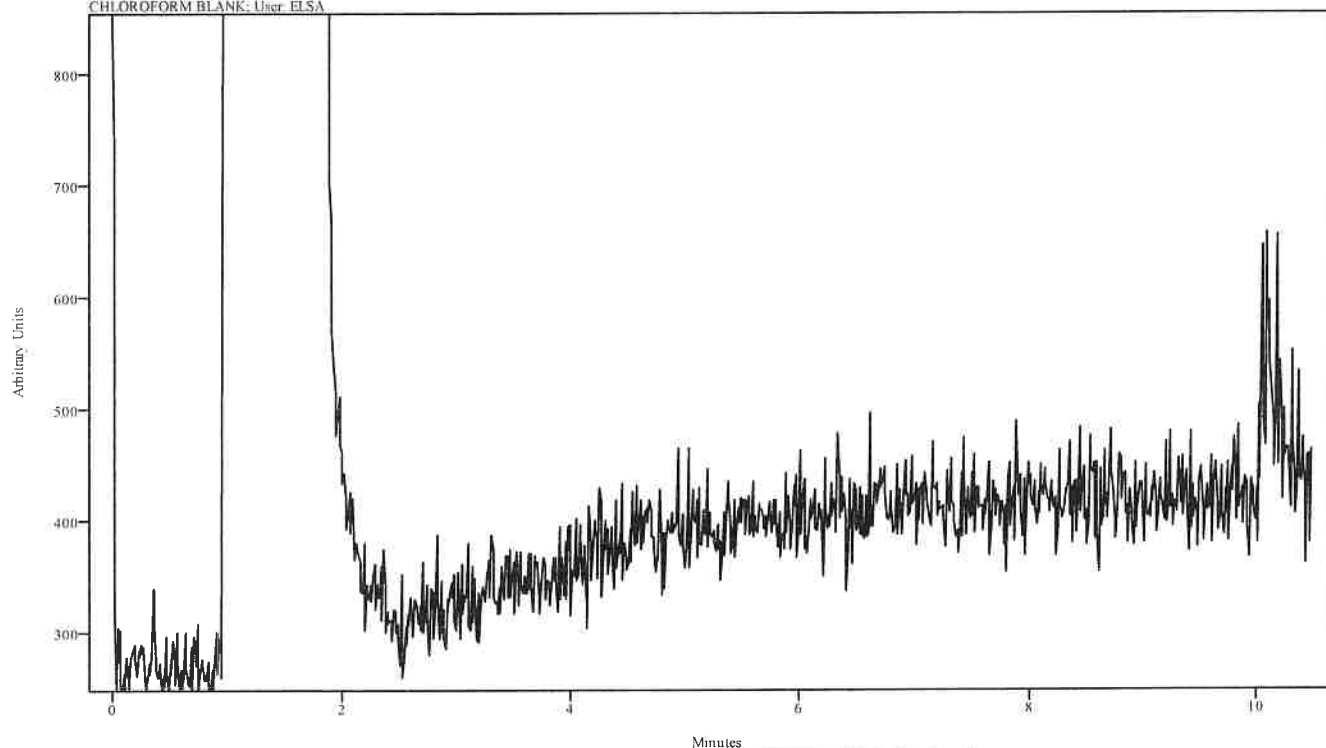


IRDATA.SPC: 8.19 minutes: AVE (8.10: 8.24) Ref. (7.40: 7.95) of CNS0620234-STD MIX
2023_June_21_185647.cgm HYDROCODONE

IRD Data Analysis Report

Data Filename	CNS0620234-STD MIX-B 2023_June_21_184240
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL200TO270
GC Vial	12
Sample Name	CHLOROFORM BLANK
Misc. Info	:STD MIX
User ID	ELSA
Injection Time	Wed Jun 21 18:56:47 2023
Date Processed	Thu Jun 22 09:47:29 2023

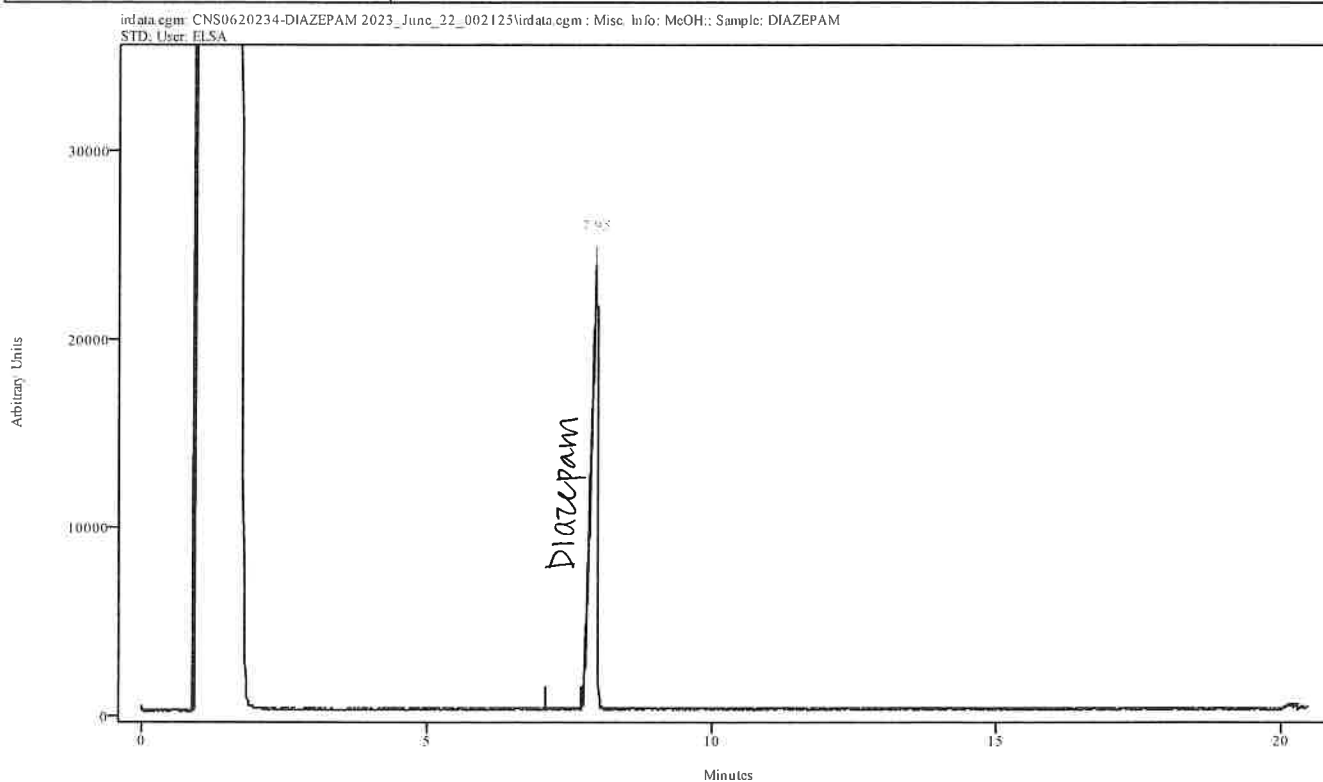
irdata.cgm: CNS0620234-STD MIX-B 2023_June_21_184240\irdata.cgm Misc. Info: :STD MIX; Sample: CHLOROFORM BLANK; User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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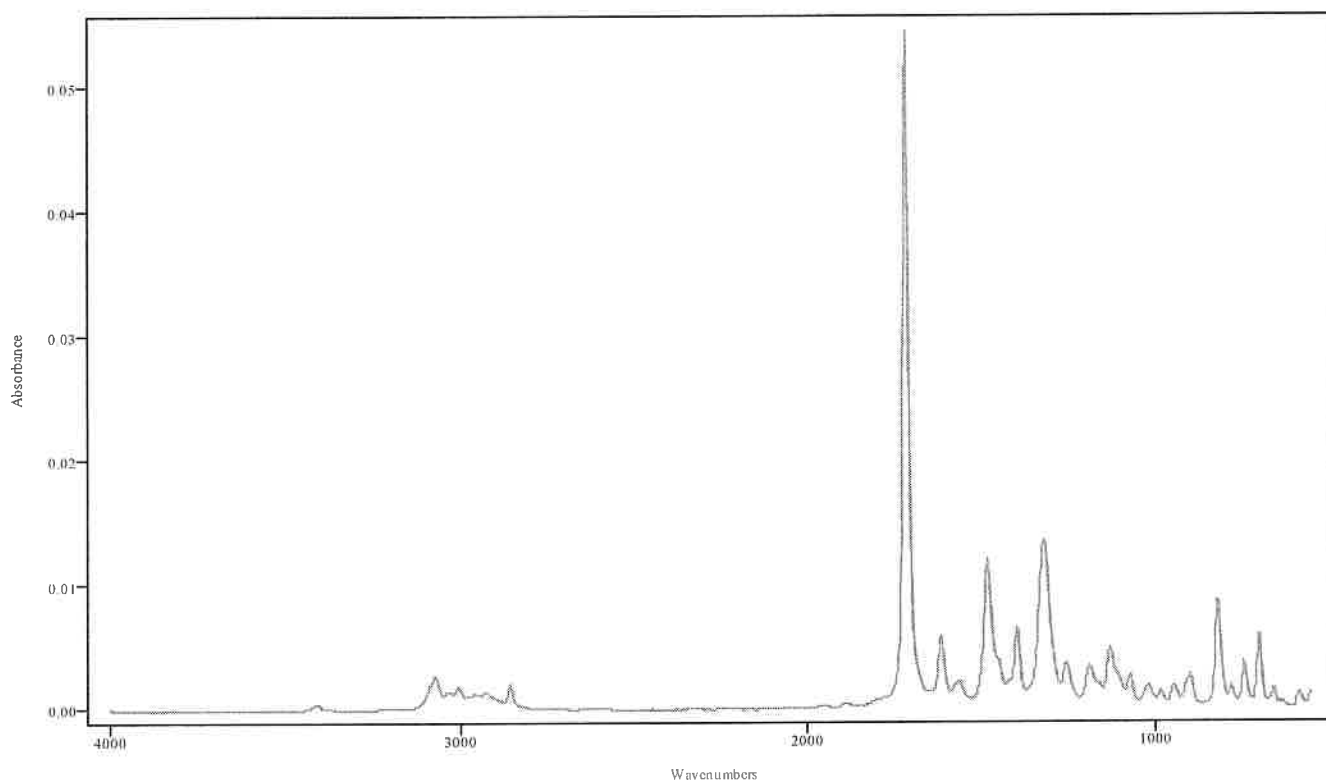
IRD Data Analysis Report

Data Filename	CNS0620234-DIAZEPAM 2023_June_22_002125
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL200TO270(20MIN)
GC Vial	10
Sample Name	DIAZEPAM STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Thu Jun 22 00:44:24 2023
Date Processed	Thu Jun 22 11:02:54 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
7.837	7.985	0.149	7.060	7.700

Data Filename	CNS0620234-DIAZEPAM 2023_June_22_002125
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL200TO270(20MIN)
GC Vial	10
Sample Name	DIAZEPAM STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Thu Jun 22 00:44:24 2023
Date Processed	Thu Jun 22 11:02:54 2023

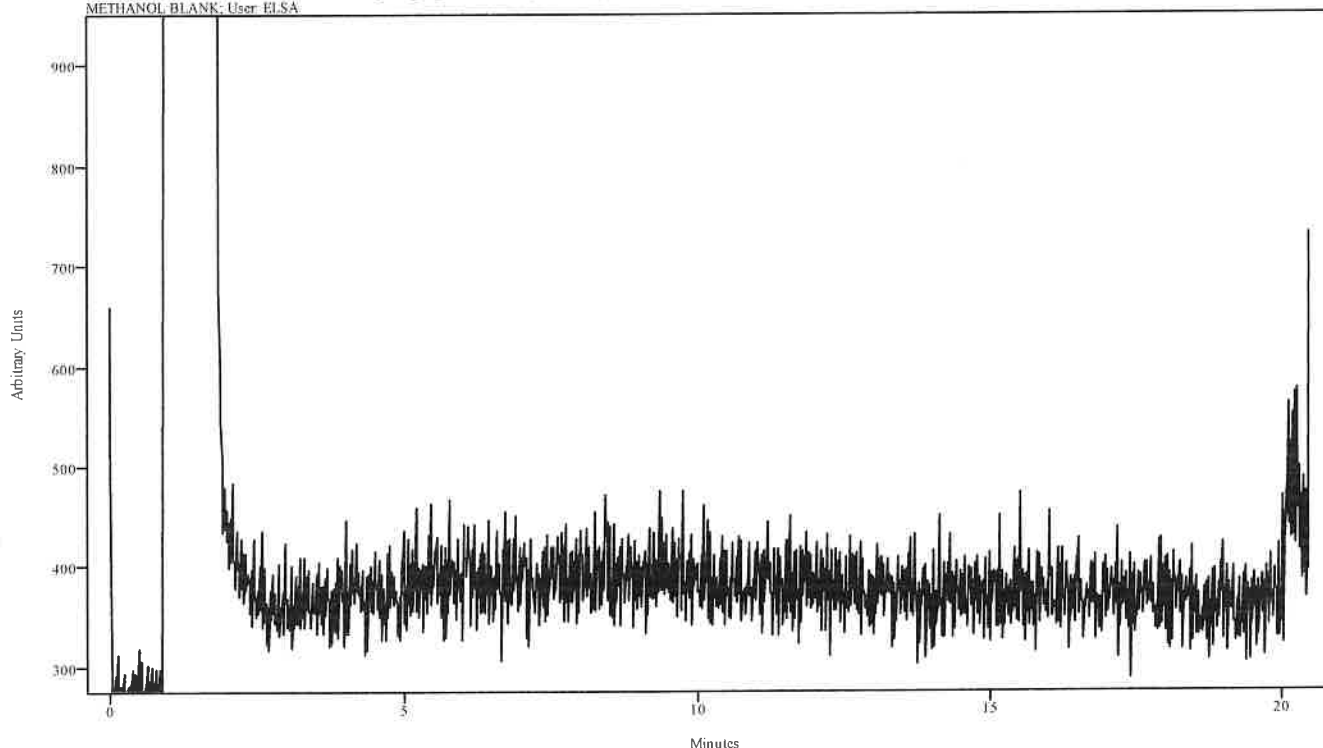


IRDATA.SPC: 7.95 minutes: AVE (7.84: 7.99) Ref. (7.06: 7.70) of CNS0620234-DIAZEPAM
2023_June_22_002125.cgm DIAZEPAM

IRD Data Analysis Report

Data Filename	CNS0620234-DIAZEPAM-B 2023_June_21_235822
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SL200TO270(20MIN)
GC Vial	21
Sample Name	METHANOL BLANK
Misc. Info	:DIAZEPAM STD
User ID	ELSA
Injection Time	Thu Jun 22 00:21:25 2023
Date Processed	Thu Jun 22 11:02:29 2023

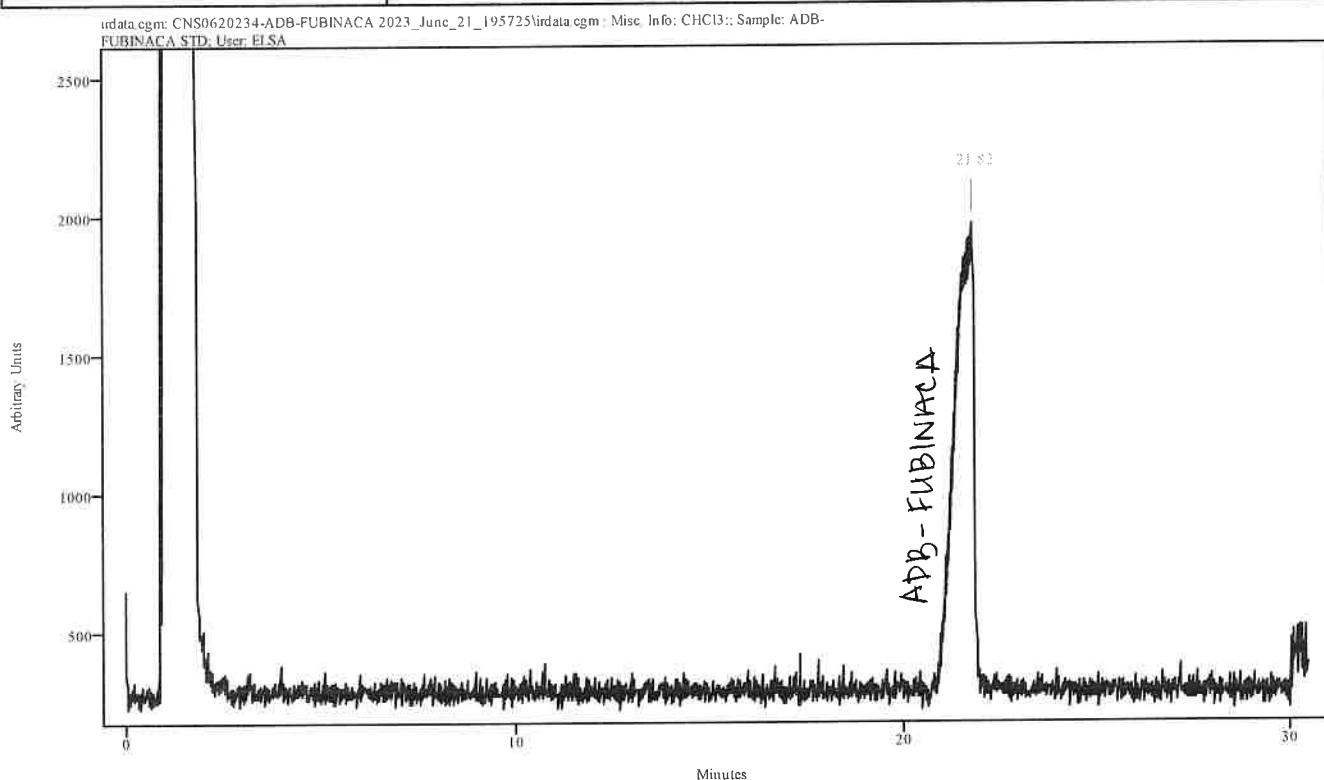
irdata.cgm: CNS0620234-DIAZEPAM-B 2023_June_21_235822\irdata.cgm : Misc. Info: :DIAZEPAM STD; Sample: METHANOL BLANK; User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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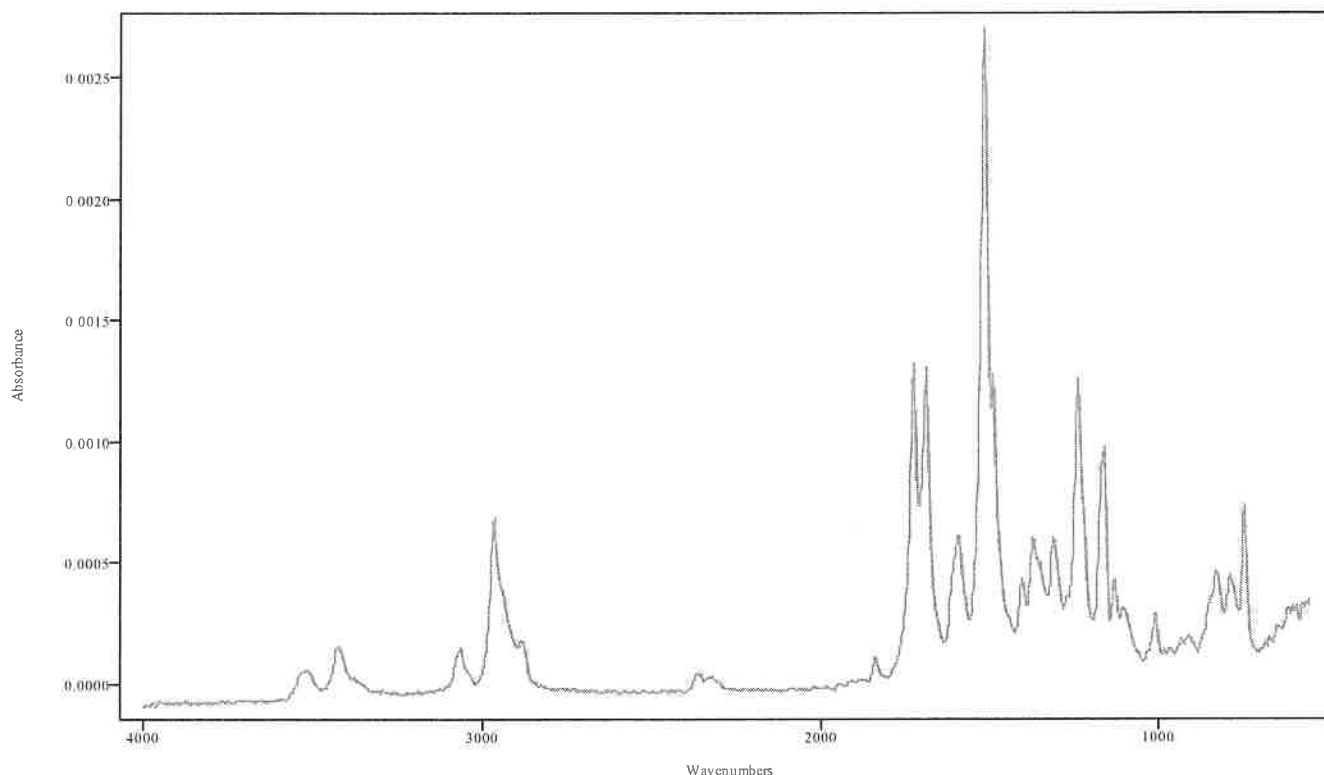
IRD Data Analysis Report

Data Filename	CNS0620234-ADB-FUBINACA 2023_June_21_195725
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(30MIN)
GC Vial	7
Sample Name	ADB-FUBINACA STD
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 20:31:45 2023
Date Processed	Thu Jun 22 10:30:41 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
20.964	21.876	0.911	17.320	20.512

Data Filename	CNS0620234-ADB-FUBINACA 2023_June_21_195725
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(30MIN)
GC Vial	7
Sample Name	ADB-FUBINACA STD
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 20:31:45 2023
Date Processed	Thu Jun 22 10:30:41 2023

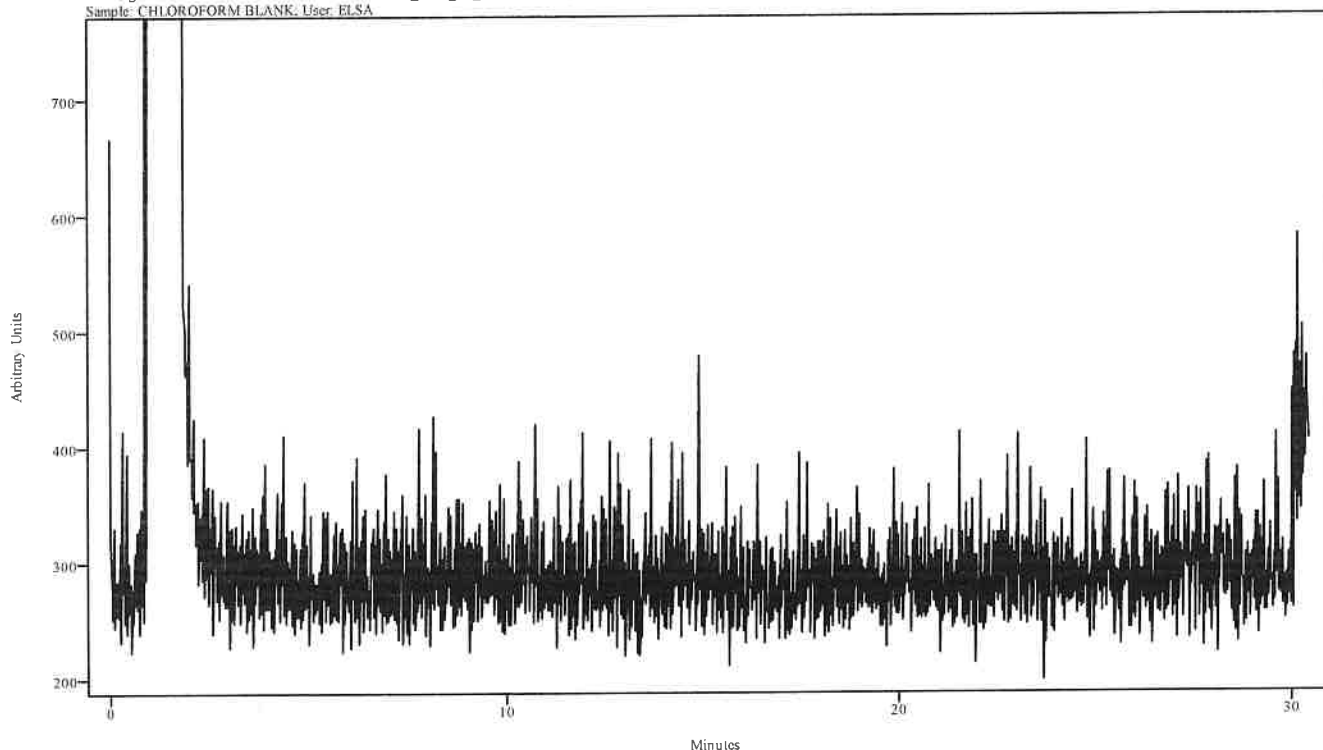


IRDATA.SPC: 21.82 minutes: AVE (20.96: 21.88) Ref. (17.32: 20.51) of
CNS0620234-ADB-FUBINACA 2023_June_21_195725.cgm ADB-FUBINACA

IRD Data Analysis Report

Data Filename	CNS0620234-ADB-FUBINACA-B 2023_June_21_192248
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(30MIN)
GC Vial	22
Sample Name	CHLOROFORM BLANK
Misc. Info	:ADB-FUBINACA STD
User ID	ELSA
Injection Time	Wed Jun 21 19:57:24 2023
Date Processed	Thu Jun 22 10:16:58 2023

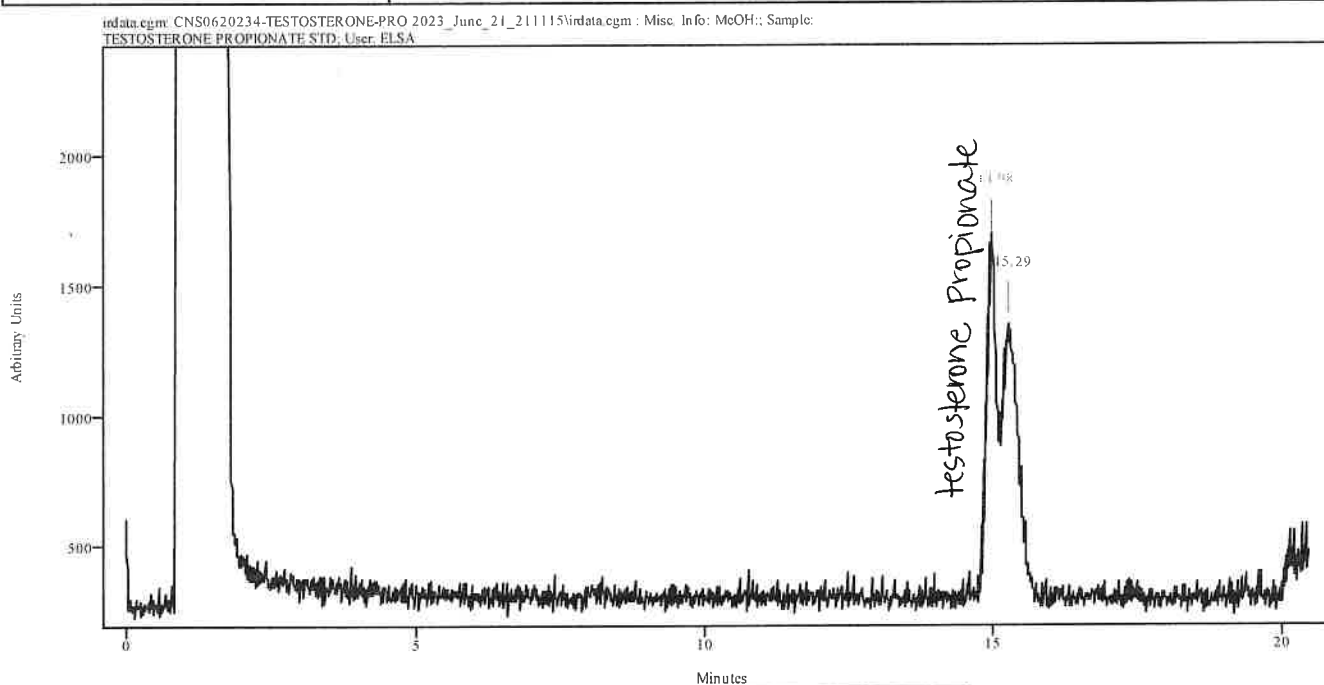
irdata.cgm: CNS0620234-ADB-FUBINACA-B 2023_June_21_192248\irdata.cgm : Misc. Info: :ADB-FUBINACA STD:
Sample: CHLOROFORM BLANK, User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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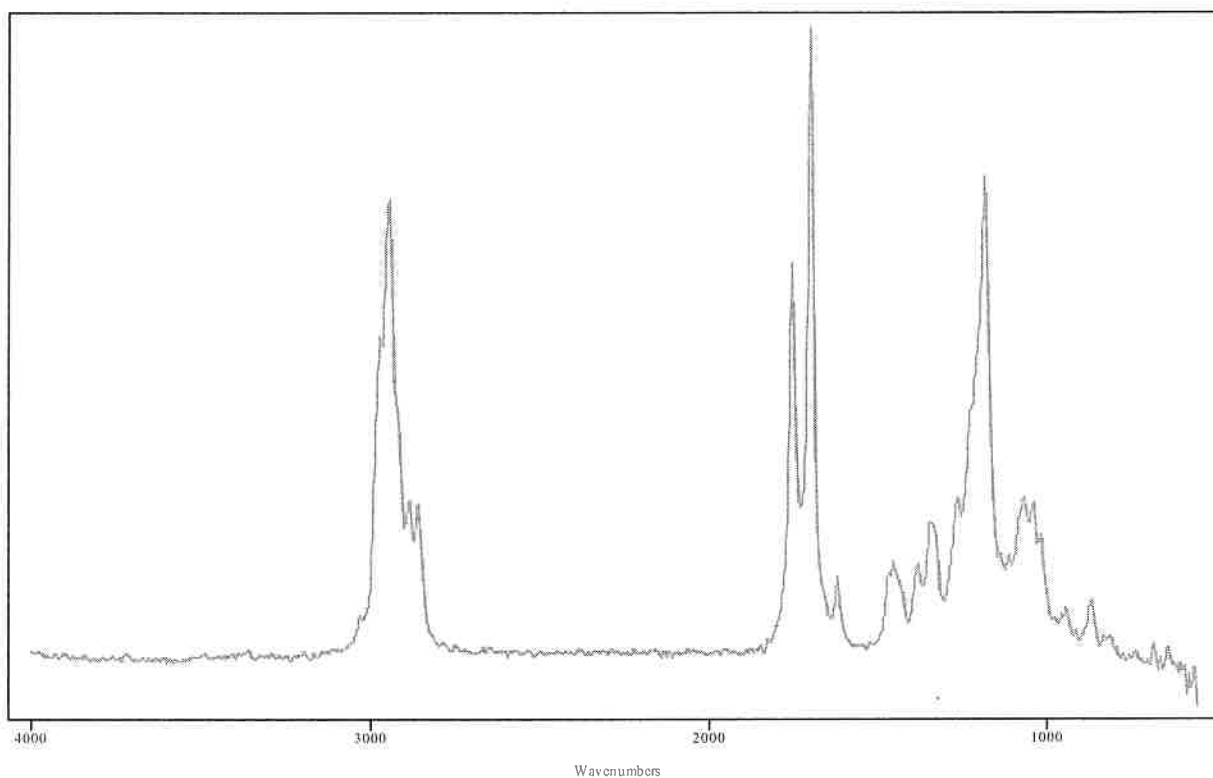
IRD Data Analysis Report

Data Filename	CNS0620234-TESTOSTERONE-PRO 2023_June_21_211115
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(20MIN)
GC Vial	8
Sample Name	TESTOSTERONE PROPIONATE STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Wed Jun 21 21:35:36 2023
Date Processed	Thu Jun 22 10:39:03 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
14.836	15.551	0.708	13.996	14.727
15.122	15.479	0.354	13.996	14.727

Data Filename	CNS0620234-TESTOSTERONE-PRO 2023_June_21_211115
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(20MIN)
GC Vial	8
Sample Name	TESTOSTERONE PROPIONATE STD
Misc. Info	MeOH:
User ID	ELSA
Injection Time	Wed Jun 21 21:35:36 2023
Date Processed	Thu Jun 22 10:39:03 2023



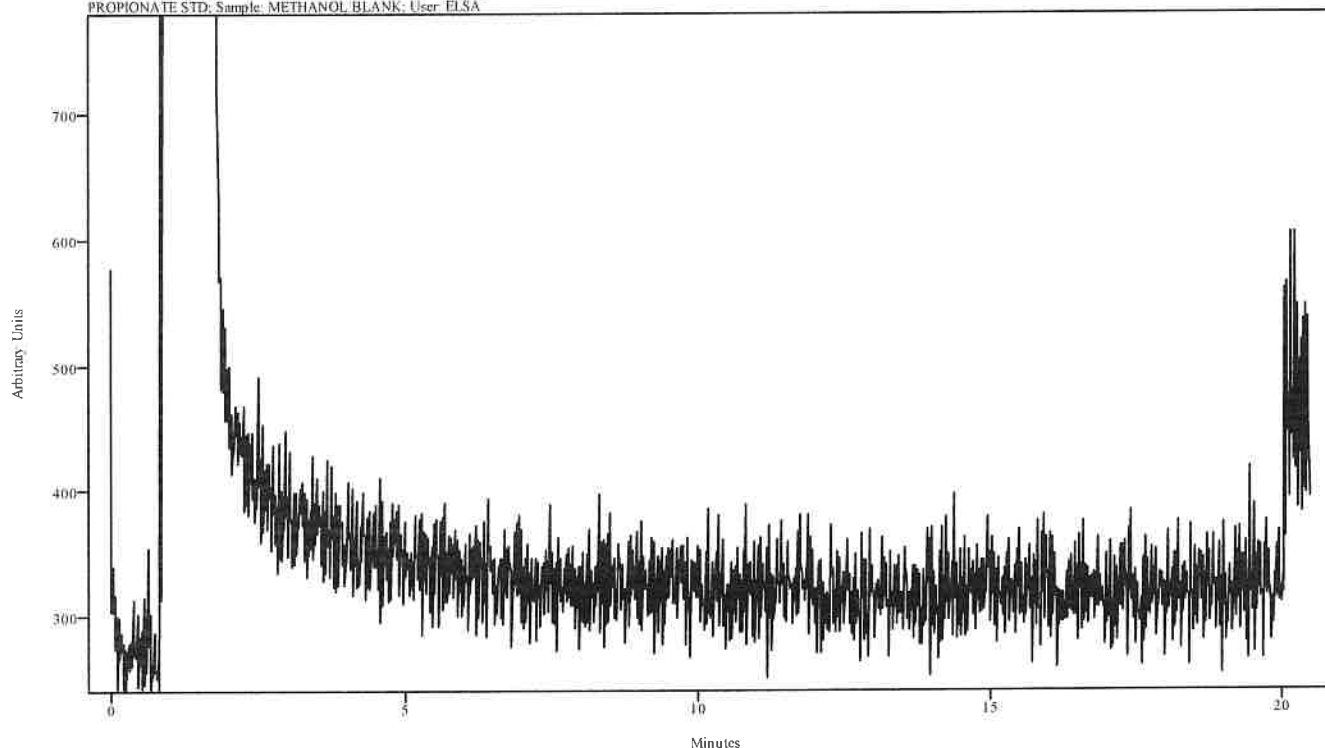
IRDATA.SPC: 14.98 minutes: AVE (14.84: 15.55) Ref. (14.00: 14.73) of
CNS0620234-TESTOSTERONE-PRO 2023_June_21_211115.cgm

TESTOSTERONE PROPIONATE

IRD Data Analysis Report

Data Filename	CNS0620234-TESTOSTERONE-PRO-B 2023_June_21_204538
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(20MIN)
GC Vial	21
Sample Name	METHANOL BLANK
Misc. Info	:TESTOSTERONE PROPIONATE STD
User ID	ELSA
Injection Time	Wed Jun 21 21:11:14 2023
Date Processed	Thu Jun 22 10:32:59 2023

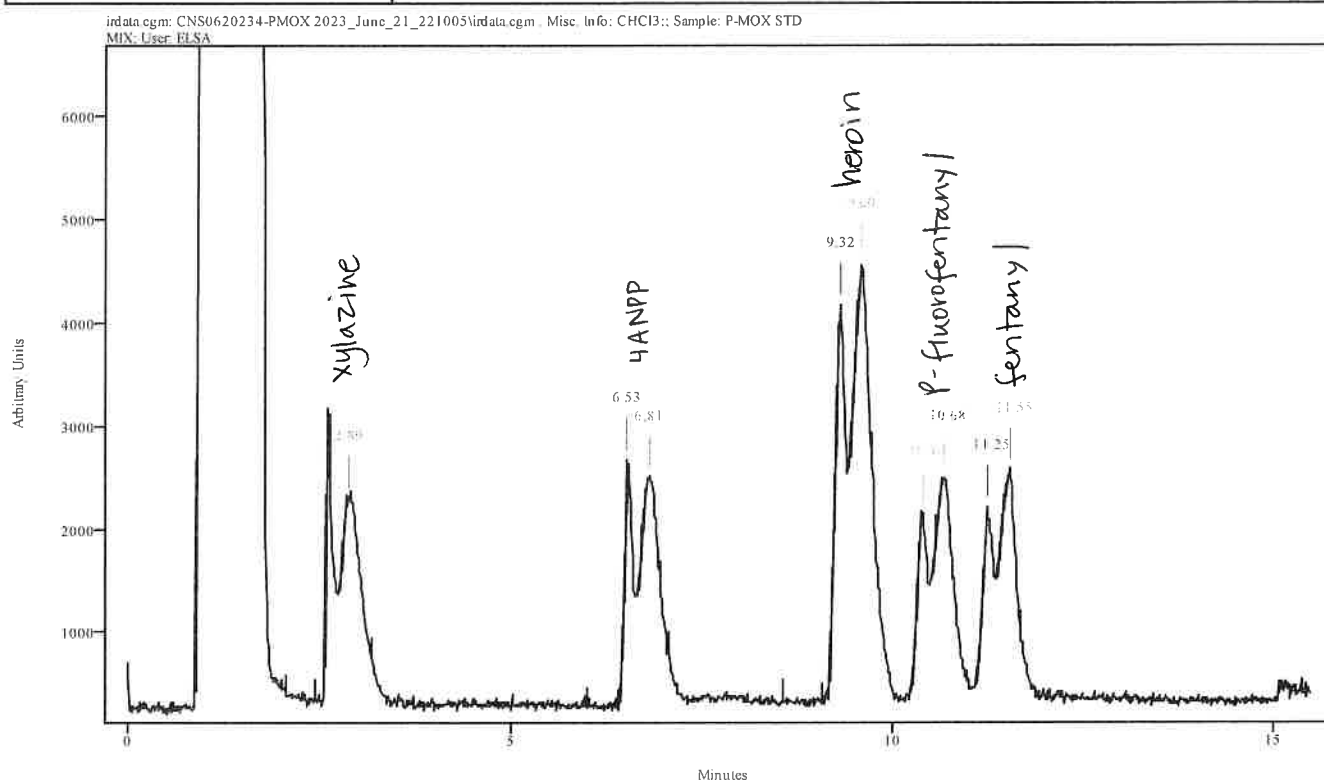
irdata.cgm: CNS0620234-TESTOSTERONE-PRO-B 2023_June_21_204538\irdata.cgm : Misc. Info: :TESTOSTERONE
PROPIONATE STD; Sample: METHANOL BLANK; User: ELSA



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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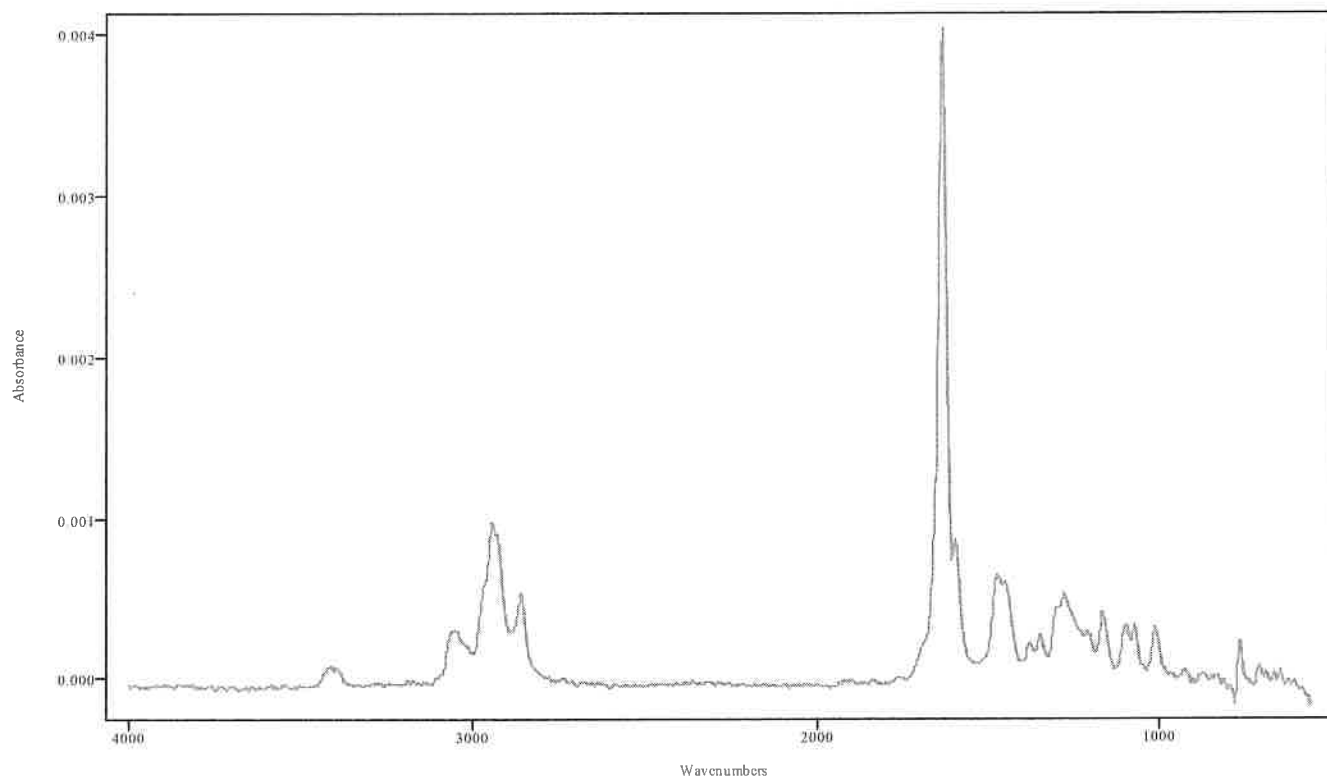
IRD Data Analysis Report

Data Filename	CNS0620234-PMOX 2023_June_21_221005
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 22:29:27 2023
Date Processed	Thu Jun 22 10:43:39 2023



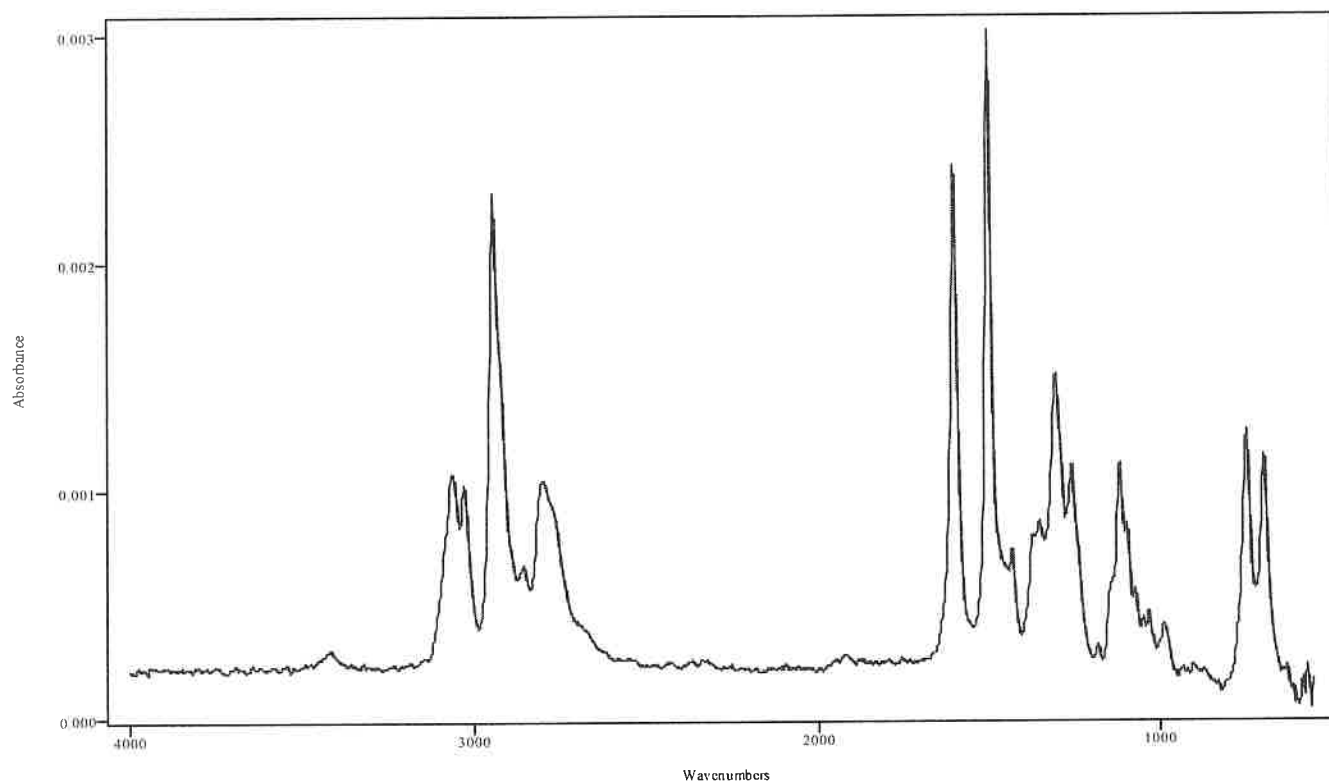
Peak Start	Peak End	Peak Width	Reference Start	Reference End
2.596	3.191	0.594	2.069	2.461
6.489	7.070	0.583	6.009	6.421
9.243	9.814	0.571	8.569	9.071
10.328	10.855	0.526	8.569	9.071
11.185	11.693	0.503	8.569	9.071

Data Filename	CNS0620234-PMOX 2023_June_21_221005
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 22:29:27 2023
Date Processed	Thu Jun 22 10:43:39 2023



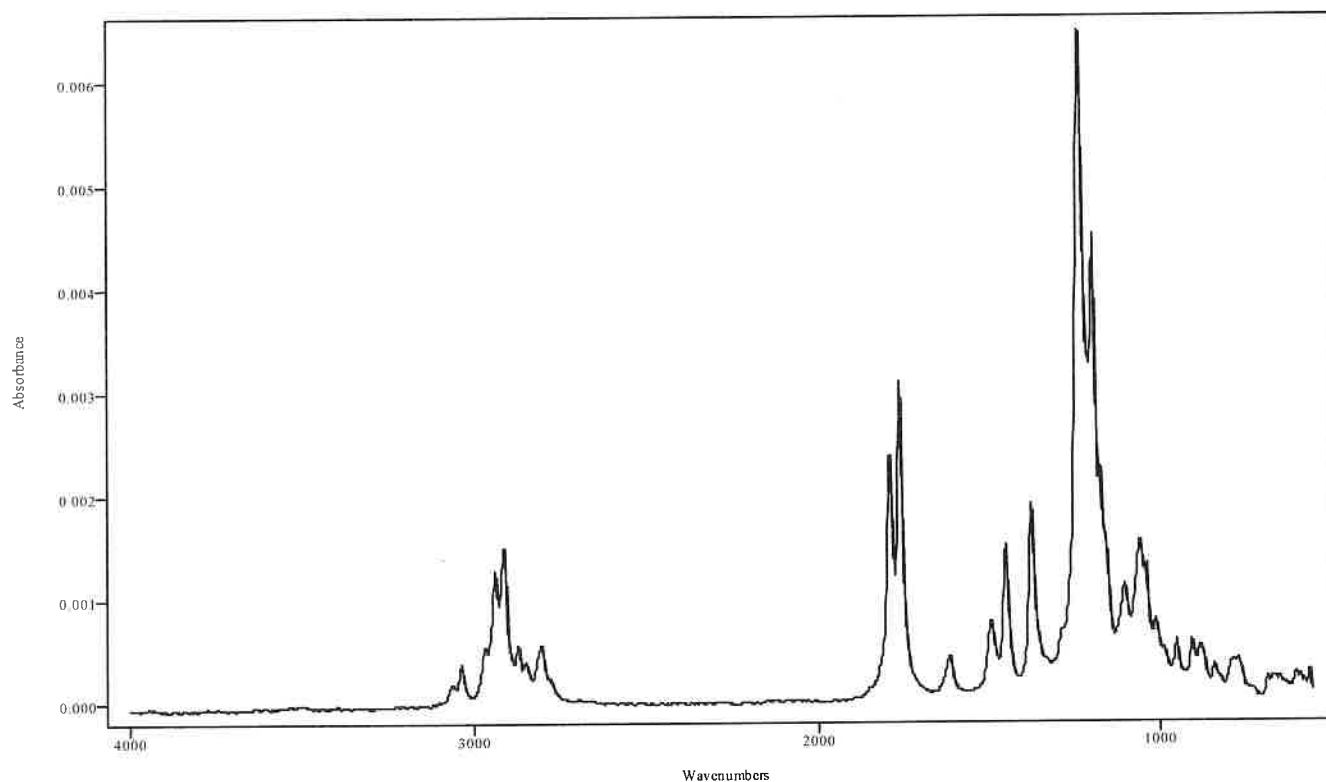
IRDATA.SPC: 2.89 minutes: AVE (2.59: 3.19) Ref. (2.07: 2.46) of CNS0620234-PMOX
2023_June_21_221005.cgm XYLAZINE

Data Filename	CNS0620234-PMOX 2023_June_21_221005
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 22:29:27 2023
Date Processed	Thu Jun 22 10:43:39 2023



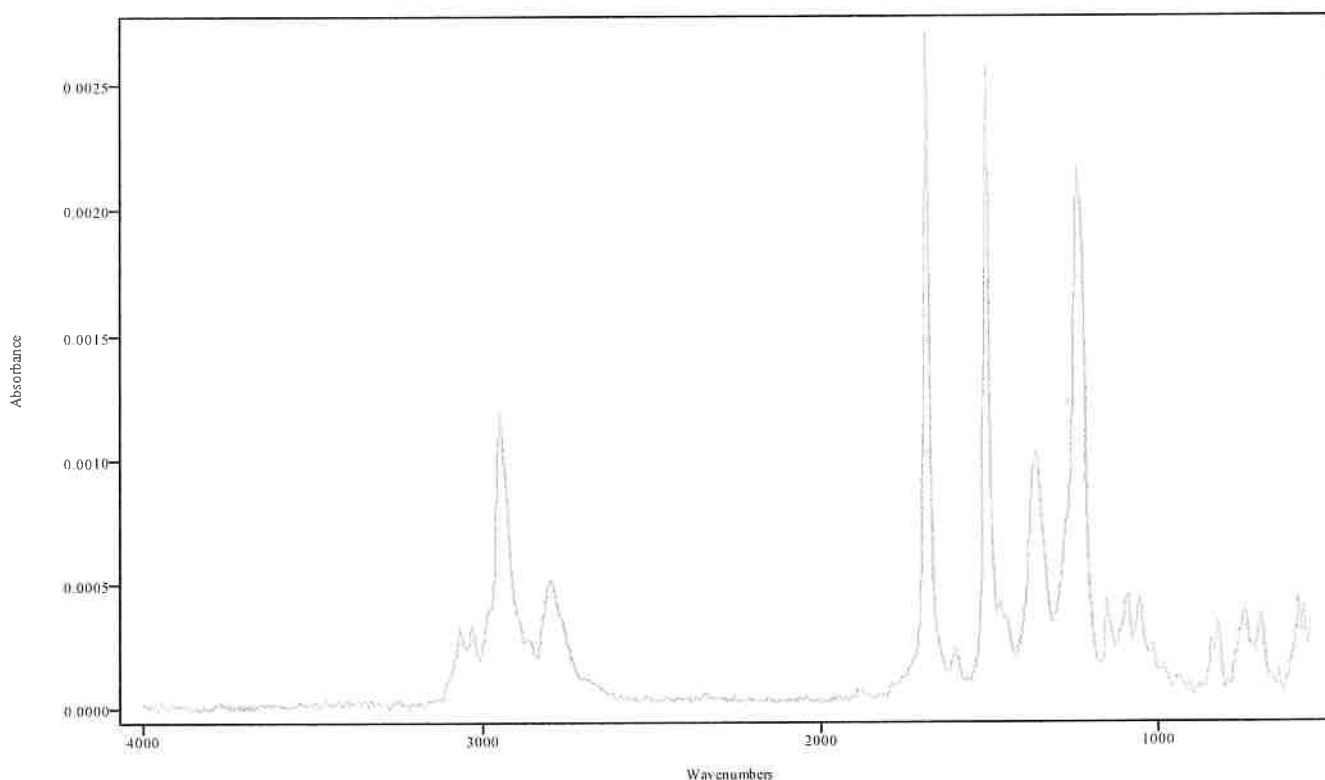
IRDATA.SPC: 6.53 minutes: AVE (6.49: 7.07) Ref. (6.01: 6.42) of CNS0620234-PMOX
2023_June_21_221005.cgm 4-ANPP

Data Filename	CNS0620234-PMOX 2023_June_21_221005
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 22:29:27 2023
Date Processed	Thu Jun 22 10:43:39 2023



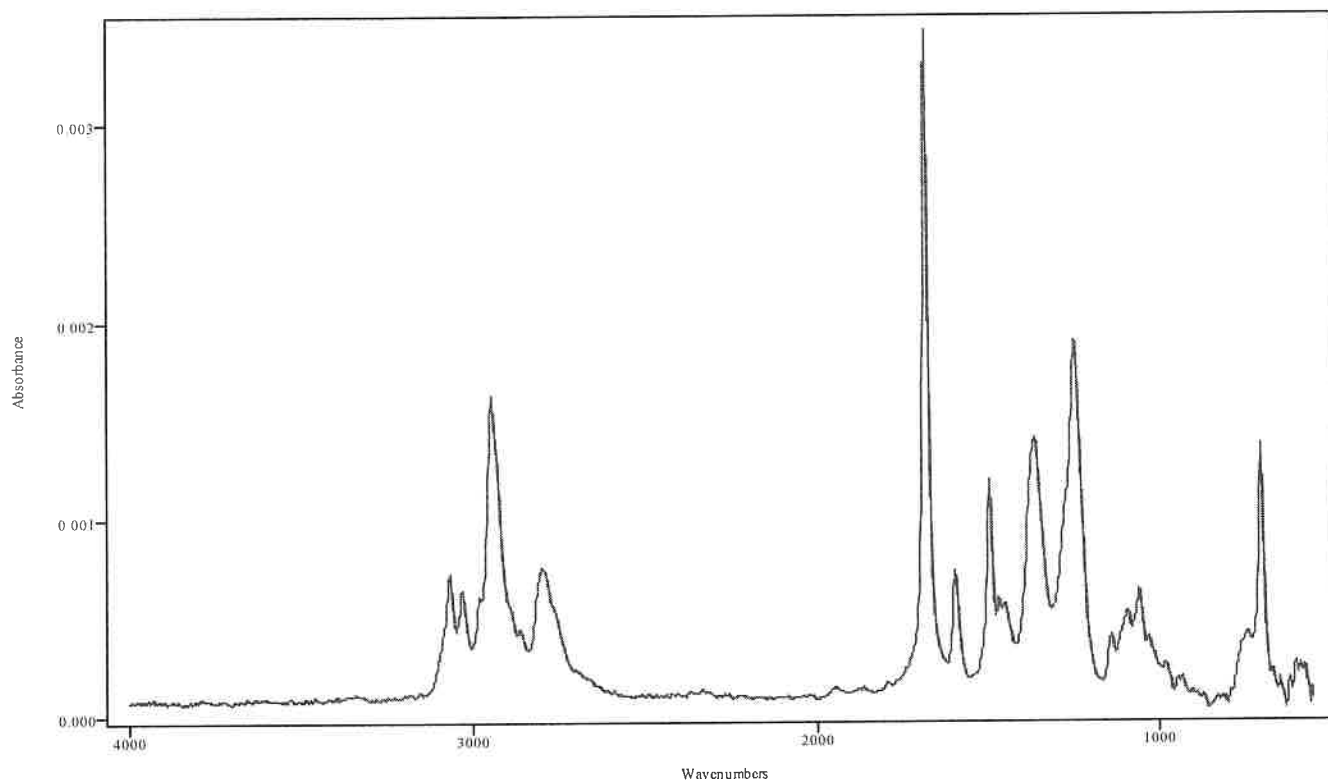
IRDATA.SPC: 9.32 minutes: AVE (9.24: 9.81) Ref. (8.57: 9.07) of CNS0620234-PMOX
2023_June_21_221005.cgm **HEROIN**

Data Filename	CNS0620234-PMOX 2023_June_21_221005
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 22:29:27 2023
Date Processed	Thu Jun 22 10:43:39 2023



IRDATA.SPC: 10.40 minutes: AVE (10.33: 10.85) Ref. (8.57, 9.07) of CNS0620234-PMOX
2023_June_21_221005.cgm PARA-FLUOROFENTANYL

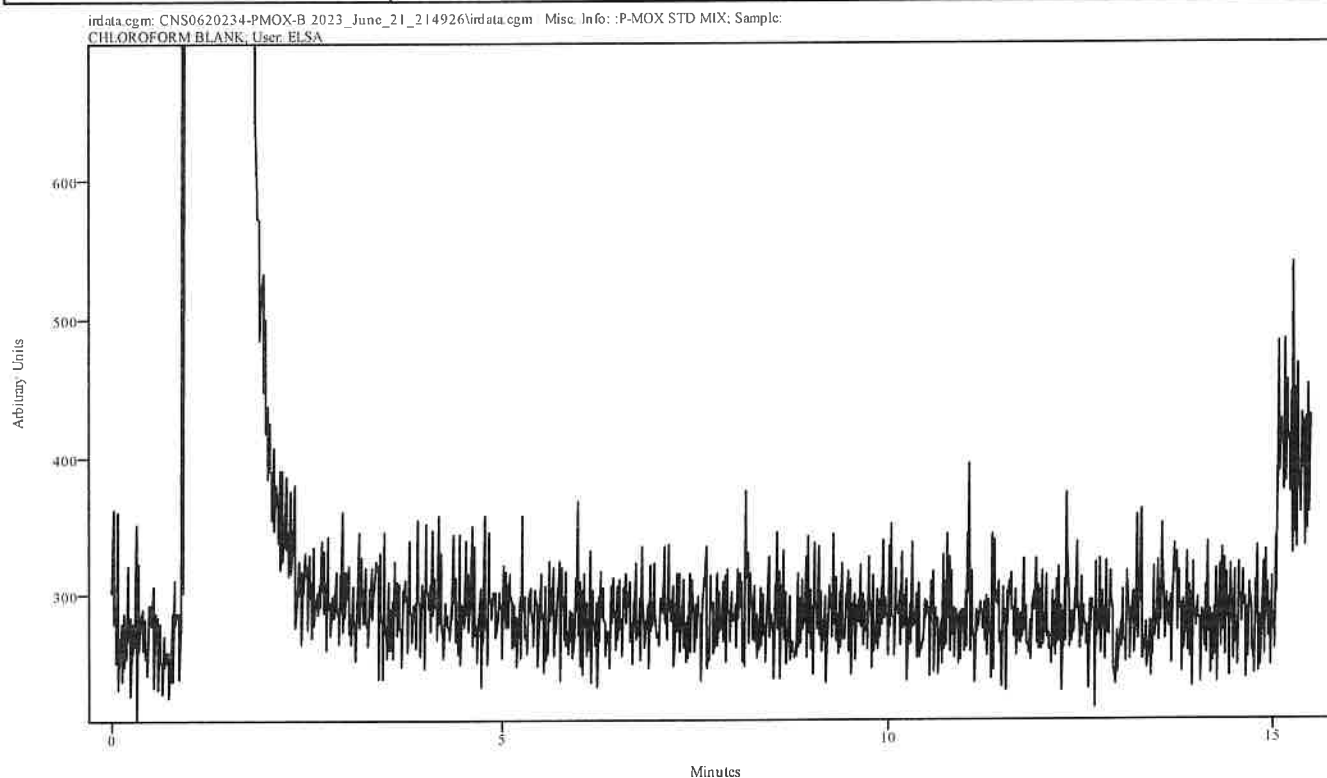
Data Filename	CNS0620234-PMOX 2023_June_21_221005
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(15MIN)
GC Vial	9
Sample Name	P-MOX STD MIX
Misc. Info	CHCl3:
User ID	ELSA
Injection Time	Wed Jun 21 22:29:27 2023
Date Processed	Thu Jun 22 10:43:39 2023



IRDATA.SPC: 11.25 minutes: AVE (11.18: 11.69) Ref. (8.57: 9.07) of CNS0620234-PMOX 2023_June_21_221005.cgm FENTANYL

IRD Data Analysis Report

Data Filename	CNS0620234-PMOX-B 2023_June_21_214926
Data Path	C:/ASAP DATA/ELSA 2023/JUNE
IRD Method	IRD3 EXT
GC Method	SLISO270(15MIN)
GC Vial	22
Sample Name	CHLOROFORM BLANK
Misc. Info	:P-MOX STD MIX
User ID	ELSA
Injection Time	Wed Jun 21 22:10:05 2023
Date Processed	Thu Jun 22 10:40:38 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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Results

Optical alignment values were monitored regularly during installation as outlined in standard operating procedure 22.6. See maintenance log for documentation. Wavenumber accuracy evaluation of Elsa has shown compliance with standard operating procedures 22.3 and 22.6. All methods have been utilized in the analysis of known drug standards. The data obtained from these standards is consistent with that of the Knoxville forensic chemistry standard library.

Conclusions

After monitoring parameters specified in standard operating procedure chapter 22 and verifying the functionality of previously utilized methods with known drug standards, it has been demonstrated that the new Agilent GC 8890B ASAP Analytical IRD3GC-FTIR (Serial Number US2313A030/A10058-C17) "Elsa" produced comparable results to current instrument responses and GC-FTIR libraries.