# TBI-FORENSIC SERVICES DIVISION
# PERFORMANCE VERIFICATION FORM

Instrument/Method to Verify:

Dobby (CN14383091/US1439L407)

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 Jessica Sosa Title SA/FS II Initials JS

Completed: Jessica Sosa 07/18/23

Name _____ Title _____ Initials _____

Completed:

Name _____ Title _____ Initials _____

Completed:

Verification of final review:

Unit Supervisor: Mollie Hood 7/18/2023 Section Manager: Adam Gray
Adam Gray (Jul 19, 2023 08:31 EDT)

Unit Supervisor: Section Manager:

Unit Supervisor: Section Manager:

Regional Administrator: Kelvin Woodby
Kelvin Woodby (Jul 19, 2023 12:26 EDT) IT Manager: Matthew Buck

Regional Administrator:

Regional Administrator:

Quality Assurance Manager: chad johnson

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.

**[1]Validation Study for updating Dobby to Windows 10**

**Tennessee Bureau of Investigation Knoxville Crime Lab**

**7-17-23**

1. **Purpose of validation**

The purpose of this validation study is to verify the performance of Dobby. This study will verify the methods, performance, and accuracy of identifications by comparative analysis. This is required as Dobby received firmware updates, and a new computer, requiring a limited revalidation to demonstrate that it still produces acceptable data for casework.

2. **Objectives**
    a. Demonstrate the accurate operation of the gas chromatograph mass spectrometer after receiving firmware updates to the instrument and the computer being replaced.
    b. Demonstrate the ability of the MassHunter and Chemstation software to function as intended software to continue to function with the updated system software.

3. **Setup and Procedures[2]**

Forensic chemistry MS identification methods were created with the same parameters as previously validated methods on this instrument before being updated.

Appropriate standards were run on each auto-sample method to demonstrate performance and consistency. Two different standards/standard mixes were run on each auto-sample method where appropriate. Other methods were verified by running the standards necessary for that method.

Various separate standard mixes were used depending on the method; xylazine, anilino-N-phenethylpiperidine (4-ANPP), heroin, para-fluorofentanyl and fentanyl. Another mix containing cocaine, hydrocodone, and pethidine was also used on methods where appropriate to compare. A final mix contained amphetamine, phentermine, and methamphetamine was used when appropriate to compare. A buprenorphine standard was also run on the appropriate methods, as well as testosterone propionate, diazepam, sildenafil, GHB, metonitazene, delta 8-THC and delta 9-THC.

The spectra obtained from these standards were compared to library spectra and the chromatographs were compared to chromatographic data obtained before the update.

## 4. Results and Conclusion

Analysis of the standards run on Dobby have consistently shown compliance with standard operating procedures in chapter 21. All methods have been utilized in the analysis of known drug standards. The data obtained from these standards is consistent with previously verified standards in the Knoxville forensic chemistry standard library. The instrument response was compared to older data taken from before the period of maintenance. The chromatography, peak shape, and separation all appear to be consistent to the data that the instrument was generating prior to the update.

## 5. Training and Competency

The instrument used to verify these methods is configured the same as the other existing instruments in the laboratory. There are no significant changes in instrumentation that would warrant an initial demonstration of proficiency for these methods.

## 6. Conclusions

After monitoring parameters specified in Forensic Chemistry Standard Operating Procedure found in chapter 21 and verifying the functionality of the methods with known drug standards, it has been demonstrated that Dobby produced comparable results to previous instrument response and GCMS libraries. This confirms the correct operation of the updated firmware and software.

## Materials

**Computer:**

| | |
|---|---|
| Device | Dobby |
| Processor | 12th Gen Intel(R) Core(TM) i5-12500 3.00 GHz |
| Installed RAM | 16.0 GB (15.7 GB usable) |
| Device ID | 5D29E47F-AAC0-4B6A-A4C4-979E9DE7EB40 |
| Product ID | 00355-63303-88737-AAOEM |
| System type | 64-bit operating system, x64-based processor |
| Pen and touch | No pen or touch input is available for this display |
| Edition | Windows 10 Pro |
| Version | 22H2 |
| Installed on | 6/20/2023 |
| OS build | 19045.3208 |
| Experience | Windows Feature Experience Pack 1000.19041.1000.0 |

**Productivity tools:**

Enhanced Chemstation

F.01.03.2357

Agilent MassHunter Workstation:

Version 10.0.368

**GC:**

Agilent 7890B

Serial: CN14383091

**MS:**

Agilent 5977A

Serial: US1439L407

**Column:**

MS: DB-1MS, Agilent 128-0112, 12 meter, 0.20 mm ID, 0.33 µm film thickness, max 360

**Buprenorphine HCl**

MeOH (Fisher lot# 197710 Bottle #2/4 exp. u/c)

(Sigma# SLBN0684V)

Made by LMM 9-8-22 exp. 9-8-23

**Delta 8 THC**

MeOH

(Cayman# 653352)

Made by CNS 6/14/24 exp. 7/14/25

**Delta 9 THC**

MeOH (from ampule^2)

Cerilliant/FE (#08221804)

Made by JDG and LMM 8/22/19 exp. 9/30/23

**Diazepam**

MeOH (Fisher lot# 211779 exp. u/c)

(Sigma# 105F0451)

Made by LMM 3/3/23 exp. 3/3/24

**GHB Standard**

MeOH (Fisher lot# 217364 Bottle 4/4)

(Sigma# 089H3410)

Made by CNS 6/14/23 exp. 6/14/24

**GCIR Standard Mix Retention Time Mix**

CHCl3 (ACROS lot# B0542909B Bottle ¼ exp. u/c)

W/ DI H20 cap + NH4OH (BDH 3014-500 MLP, lot# 2014061276 exp. u/c)

Amphetamine (Sigma# 79H0603)

Methamphetamine (Sigma# 50H02161)

Phentermine HCl (Sigma# 074K1059)

Made by ZJ 2/2/23 exp. 2/1/24

**Metonitazene**

MeOH (Fisher lot# 211779)

(Cayman# 0608348-19)

Made by MJH 6/27/23 exp. 8/3/23

**P-MOX Retention Time Mix**

CHCl3 (ACROS lot# B0542909B Bottle #1/4)

w/ DI H2O + base cap NH4OH (BDH lot# 3014-500MLP)

Phentermine (Sigma# 074K1059)

Methamphetamine (Sigma# 071K1580)

Xylazine (Cayman# 0471462-19)

Heroin (Cayman# 0559235-10)

Para-Fluorofentanyl (Cayman# 0541563-43)

Fentanyl (Cayman# 0549959-44)

4-ANPP (Cayman# 0540831-18)

Made by NAH 6/13/23 exp. 6/12/24

**Sildenafil**

MeOH (Fisher lot# 217364 Bottle 4/4)

(Cayman# 0464768-1)

Made by CNS 6/15/23 exp. 6/14/24

**STD Mix Retention Time Mix**

CHCl3 (ACROS Fisher lot# B0542909B exp. u/c)

w/ DI H20 + base cap NH4OH (BDH lot# 2014042806 exp. u/c)

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

Cocaine (Sigma# 69H1240)

Hydrocodone (Cayman Chem# 0524561-22-STD 1/2)

Hydrocodone (Cayman Chem# 0524561-22-STD 2/2)

Made by LMM 5/19/23 exp. 5/19/24

**Testosterone Propionate**

MeOH (Fisher lot# 223204 exp. u/c)

(Sigma# 034K0695)

Made by CES 5/24/23 exp. 5/24/24

**GC and GC/MS**
**methods**

## Gas Chromatography /Mass Spectrometry methods

| | Auto-sample Injection |
|---|---|
| AMINE | 65°-280°C for 10.875 minutes |
| BENZOMS | 210°-280°C for 7.0333 minutes |
| BUPMS | 240°-280°C for 11.5 minutes |
| CFMS | 150°C for 4 minutes |
| DRUG1 | 80°-280°C for 14.667 minutes |
| GHB | 80°-280°C for 14.667 minutes (solvent delay off) |
| LOWCON | 80°-280°C for 14.667 minutes |
| OPIATE | 200°-280°C for 6.6667 minutes |
| STEROID | 70°-280°C for 20 minutes |
| THCCFMS | 240°-280°C for 6.6667 minutes |
| THCMS | 200°-240°C for 8 minutes |
| XLDRUGS | 70°-299°C for 28.058 minutes |

| method | standard name | drugs in mixtures | RT |
|---|---|---|---|
| AMINE | GCIR STD | amphetamine | 3.074 |
| | | phentermine | 3.309 |
| | | methamphetamine | 3.465 |
| BENZOMS | DIAZEPAM STD | diazepam | 2.643 |
| | STD MIX | cocaine | 2.031 |
| | | hydrocodone | 2.677 |
| BUPMS | BUPRENORPHINE STD | buprenorphine | 7.429 |
| | STD MIX | hydrocodone | 1.550 |
| DRUG1 | GCIR STD | amphetamine | 3.272 |
| | | phentermine | 3.543 |
| | | methamphetamine | 3.699 |
| | METONITAZENE STD | metonitazene | 13.402 |
| | P-MOX STD | phentermine | 3.537 |
| | | methamphetamine | 3.692 |
| | | xylazine | 7.112 |
| | | 4-ANPP | 8.651 |
| | | heroin | 9.172 |
| | | para-fluorofentanyl | 9.368 |
| | | fentanyl | 9.503 |
| | STD MIX | pethidine | 6.394 |
| | | cocaine | 7.902 |
| | | hydrocodone | 8.621 |
| GHB | GHB STD | GHB | 1.208 |
| LOWCON | STD MIX | pethidine | 6.402 |
| | | cocaine | 7.914 |
| | | hydrocodone | 8.639 |
| OPIATE | STD MIX | cocaine | 2.830 |
| | | hydrocodone | 3.561 |
| STEROID | BUPRENORPHINE STD | buprenorphine | 14.265 |
| | P-MOX STD | phentermine | 3.097 |
| | | methamphetamine | 3.219 |
| | | xylazine | 6.444 |
| | | 4-ANPP | 7.983 |
| | | heroin | 8.504 |
| | | para-fluorofentanyl | 8.700 |
| | | fentanyl | 8.835 |
| | ESTOSTERONE PROPIONATE ST | testosterone propiona | 9.397 |
| THCMS | DELTA-8-THC STD | delta-8-THC | 5.580 |
| | DELTA-9-THC STD | delta-9-THC | 5.750 |
| XLDRUGS | P-MOX STD | phentermine | 3.144 |
| | | methamphetamine | 3.339 |
| | | xylazine | 10.432 |
| | | 4-ANPP | 11.931 |
| | | heroin | 12.370 |
| | | para-fluorofentanyl | 12.505 |
| | | fentanyl | 12.594 |
| | SILDENAFIL STD | sildenafil | 20.890 |

METHOD CONTROL PARAMETERS

Method Information for: C:\MassHunter\GCMS\1\methods\AMINE.M

Method Sections To Run:

( ) Save Copy of Method With Data
( ) Instrument Control Pre-Run Cmd/Macro =
( ) Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
(X) Data Analysis
( ) Instrument Control Post-Run Cmd/Macro =
( ) Data Analysis Post-Run Cmd/Macro =

Method Comments:
This is the default method

END OF METHOD CONTROL PARAMETERS

C:\MassHunter\GCMS\1\methods\AMINE.M
Mon Jul 17 11:27:02 2023

Control Information

| | |
|---|---|
| Sample Inlet | : GC |
| Injection Source | : GC ALS |
| Injection Location: | Front |
| Mass Spectrometer | : Enabled |

No Sample Prep method has been assigned to this method.

GC

| | |
|---|---|
| GC Summary | |
| Run Time | 10.875 min |
| Post Run Time | 0 min |
| Oven | |
| Temperature | |
| Setpoint | On |
| (Initial) | 65 °C |
| Hold Time | 1 min |
| Post Run | 80 °C |
| Program | |
| #1 Rate | 30 °C/min |
| #1 Value | 125 °C |
| #1 Hold Time | 1 min |
| #2 Rate | 40 °C/min |
| #2 Value | 280 °C |
| #2 Hold Time | 3 min |
| Equilibration Time | 0.5 min |
| Max Temperature | 325 °C |
| Maximum Temperature Override | Disabled |
| Slow Fan | Disabled |

ALS

| | |
|---|---|
| Front Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |

| | |
|---|---|
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Back Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Sample Overlap | |
| Mode | Sample overlap is not enabled |
| | |
| ALS Errors | Pause for user interaction |
| | |
| Front SS Inlet He | |
| Mode | Split |
| Heater | On 250 °C |
| Pressure | On 8.3067 psi |
| Total Flow | On 49 mL/min |
| Septum Purge Flow | On 3 mL/min |
| Gas Saver | On 20 After 2 min mL/min |
| Split Ratio | 45 :1 |
| Split Flow | 45 mL/min |
| Liner | Agilent 5190-2270: 900 µL (Splitless, single taper, deacti |
| | |
| Back SS Inlet He | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Mode | Split |
| Heater | Off |
| Pressure | Off |
| Total Flow | Off |
| Septum Purge Flow | Off |
| Gas Saver | Off |
| Split Ratio | 1 :1 |
| Split Flow | 0 mL/min |
| Liner | A Liner has not been selected. |
| | |
| Thermal Aux 2 (MSD Transfer Line) | |
| Temperature | |
| Setpoint | On |
| (Initial) | 280 °C |

| | |
|---|---|
| Column | |
| Column #1 | |
| Flow | |
| Setpoint | On |
| (Initial) | 1 mL/min |
| Post Run | 1.0812 mL/min |
| | |
| Column Information | Agilent 128-0112 |
| DB-1ms | |
| Temperature Range | -60 °C—340 °C (350 °C) |
| Dimensions | 12 m x 200 µm x 0.33 µm |
| Column lock | Unlocked |
| In | Front SS Inlet He |
| Out | MSD |
| (Initial) | 65 °C |
| Pressure | 8.3067 psi |
| Flow | 1 mL/min |
| Average Velocity | 58.044 cm/sec |
| Holdup Time | 0.34457 min |
| Control Mode | Constant Flow |
| | |
| Column #2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 0 psi |
| Post Run | 0 psi |
| | |
| Column Information | Agilent 19091Z-211 |
| HP-1 | |
| Temperature Range | -60 °C—325 °C (350 °C) |
| Dimensions | 15 m x 320 µm x 1 µm |
| Column lock | Unlocked |
| In | Back SS Inlet He |
| Out | Front Detector FID |
| (Initial) | 65 °C |
| Pressure | 0 psi |
| Flow | 0 mL/min |
| Average Velocity | 0 cm/sec |
| Holdup Time | ∞ min |
| Control Mode | Constant Pressure |
| | |
| Column Outlet Pressure | 0 psi |
| | |
| Front Detector FID | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Makeup | N2 |
| Heater | Off |
| H2 Flow | Off |
| Air Flow | Off |
| Makeup Flow | Off |
| Carrier Gas Flow Correction | Constant Makeup and Fuel Flow |
| Flame | Off |
| | |
| Aux EPC 1,2,3 | |
| Aux EPC 1 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| | |
| Aux EPC 2 N2 | |
| Pressure | |

| | |
|---|---|
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

Aux EPC 3 N2
Pressure

| | |
|---|---|
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

Signals
Signal #1: Test Plot

| | |
|---|---|
| Description | Test Plot |
| Save | Off |
| Data Rate | 50 Hz |
| Dual Injection Assignment | Front Sample |

Signal #2:

| | |
|---|---|
| Description | None |

Signal #3:

| | |
|---|---|
| Description | None |

Signal #4:

| | |
|---|---|
| Description | None |

TUNE PARAMETERS for SN: US1439L407

Trace Ion Detection is OFF.

| | | |
|---|---|---|
| 34.593 | : | EMISSION |
| 70.007 | : | ENERGY |
| 34.899 | : | REPELLER |
| 90.331 | : | IONFOCUS |
| 20.181 | : | ENTRANCE_LENS |
| 963.560 | : | EMVOLTS |
| 1151.3 | : | Actual EMV |
| 2.60 | : | GAIN FACTOR |
| 1322.000 | : | AMUGAIN |
| 123.750 | : | AMUOFFSET |
| 1.000 | : | FILAMENT |
| 0.000 | : | DCPOLARITY |
| 15.312 | : | ENTLENSOFFSET |
| 0.000 | : | Ion_Body |
| 0.000 | : | EXTLENS |
| -468.000 | : | MASSGAIN |
| -36.000 | : | MASSOFFSET |

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

# Single Quadrupole Acquisition Method - MS Parameters Report

| | |
|---|---|
| **Method file** | C:\MassHunter\GCMS\1\methods\AMINE.M |
| **Tune file** | ATUNE.U |
| **Ion source** | EI |
| **Source temperature (°C)** | 230 |
| **Quad temperature (°C)** | 150 |
| **Fixed Electron energy (eV)** | 70.0 |
| **Acquisition Type** | Scan |
| **Stop time (min)** | 10.00 |
| **Solvent delay (min)** | 2.50 |
| **Trace Ion Detection** | False |
| **Gain Factor** | 2.6 |
| **EM Saver** | False |
| **EM Saver Limit** | N/A |

**Scan Time Segments**

| Time | Start Mass | End Mass | Threshold | Scan Speed |
|---|---|---|---|---|
| 2.50 | 40 | 550 | 150 | 1,562 [N=2] |

**Timed Events**

| Time | Type of Event | Parameter |
|---|---|---|

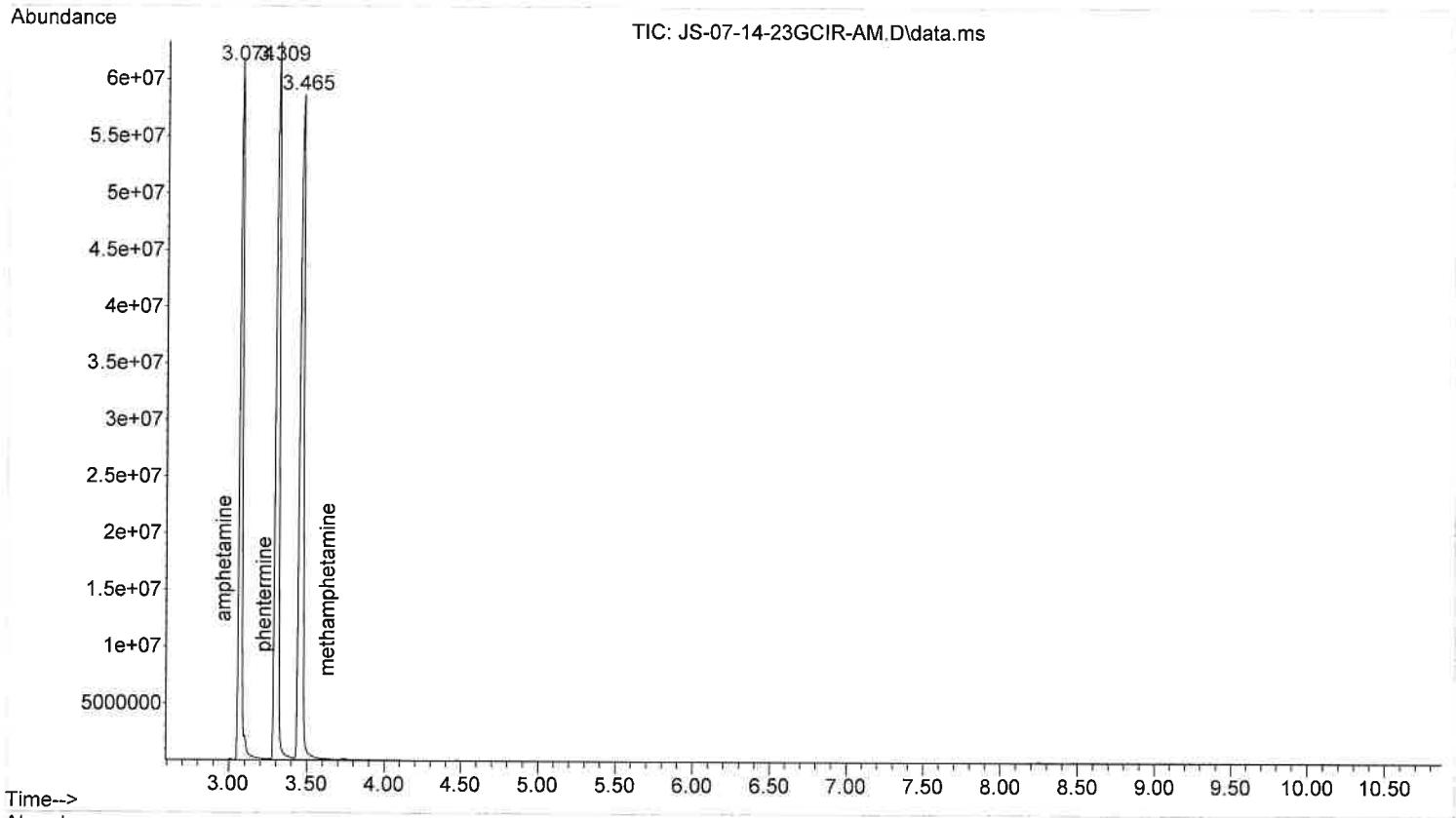
**Real-Time Plots**

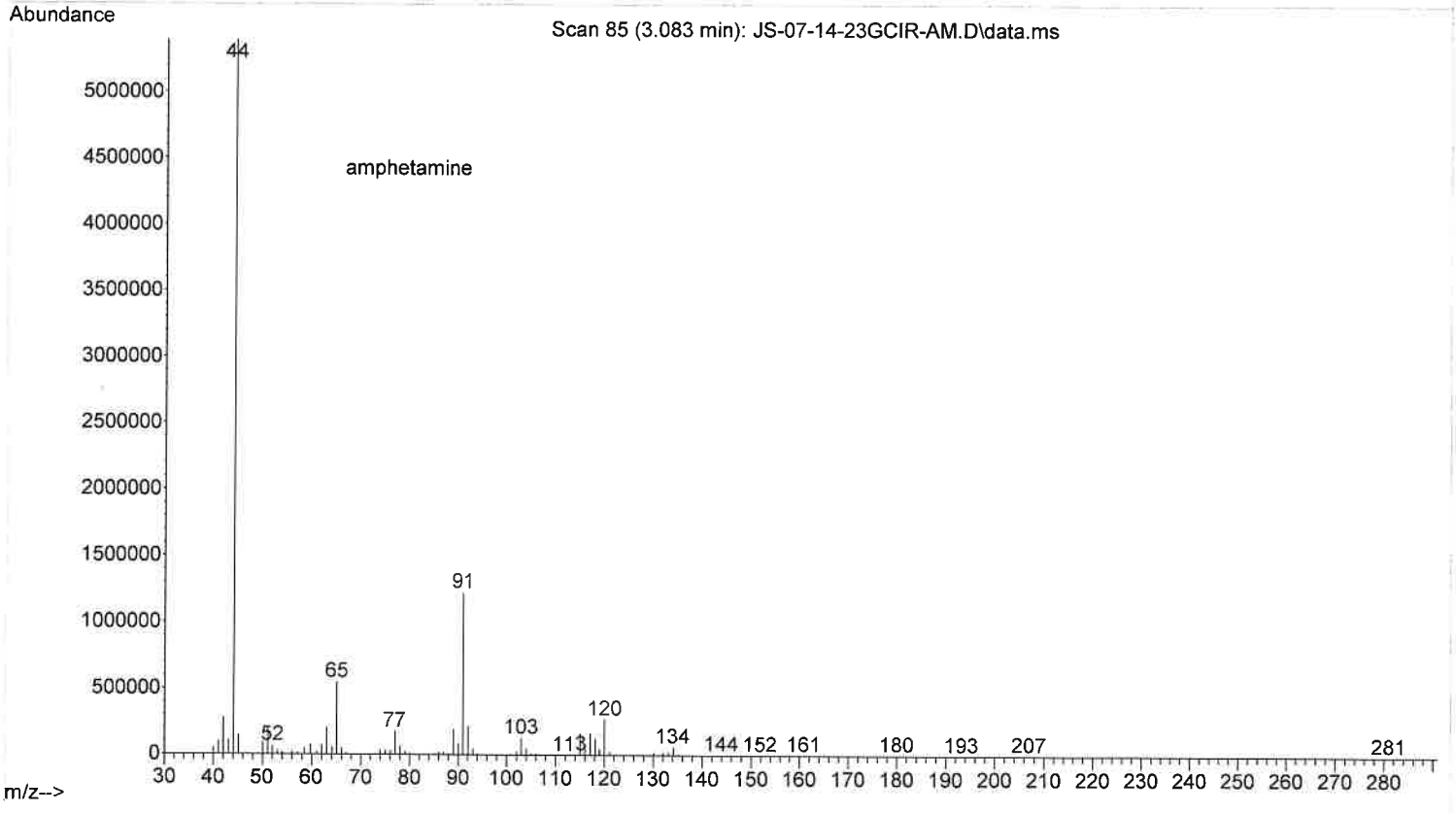
| Type of Plot | Label | Low Mass | High Mass |
|---|---|---|---|
| Total Ion | N/A | N/A | N/A |
| Spectrum | N/A | N/A | N/A |
| Extracted Ion | Scan 1-1 | 50 | 550 |

**Self-Cleaning Ion Source Parameters**

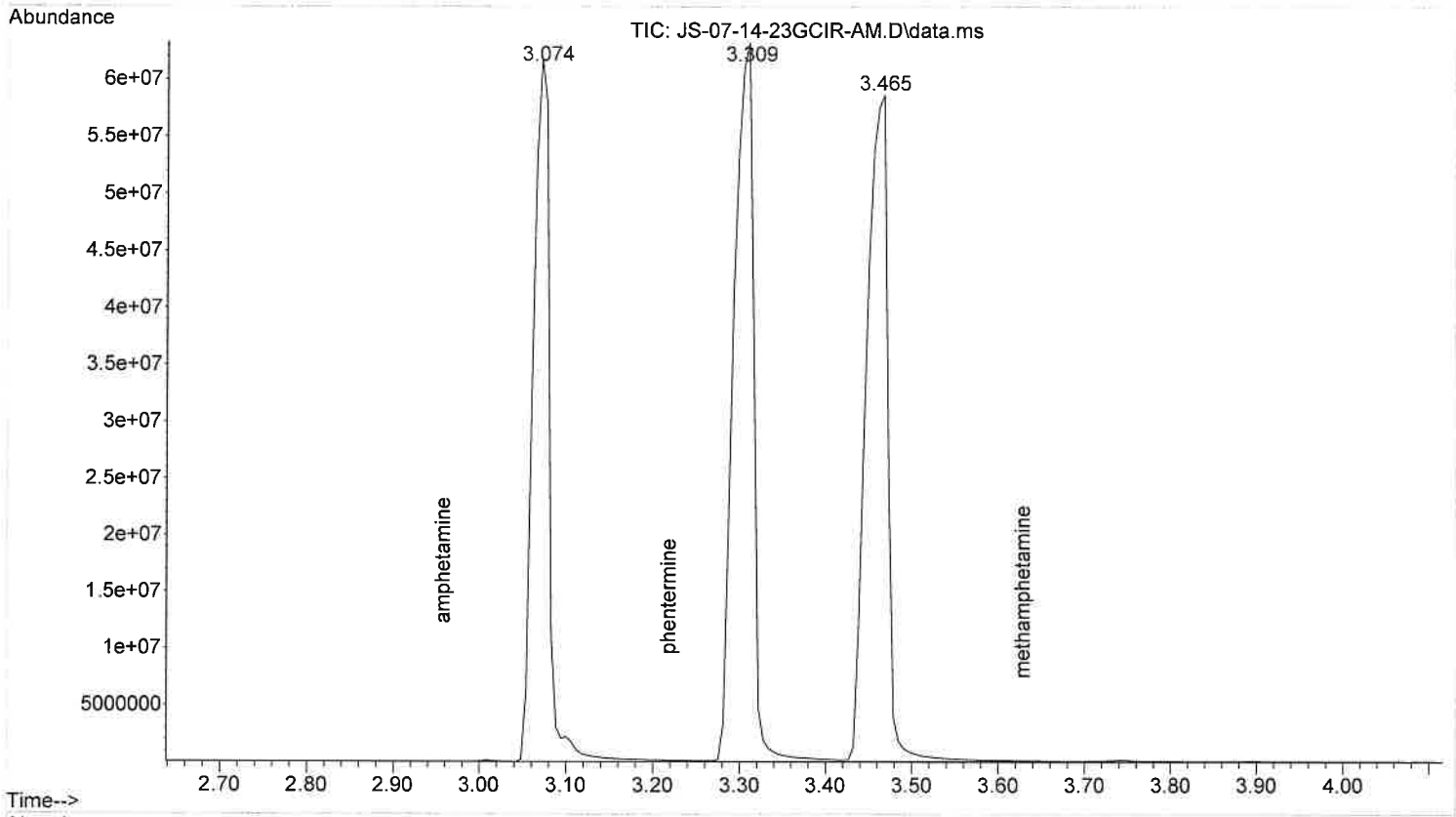
| | |
|---|---|
| Mode | No Cleaning |

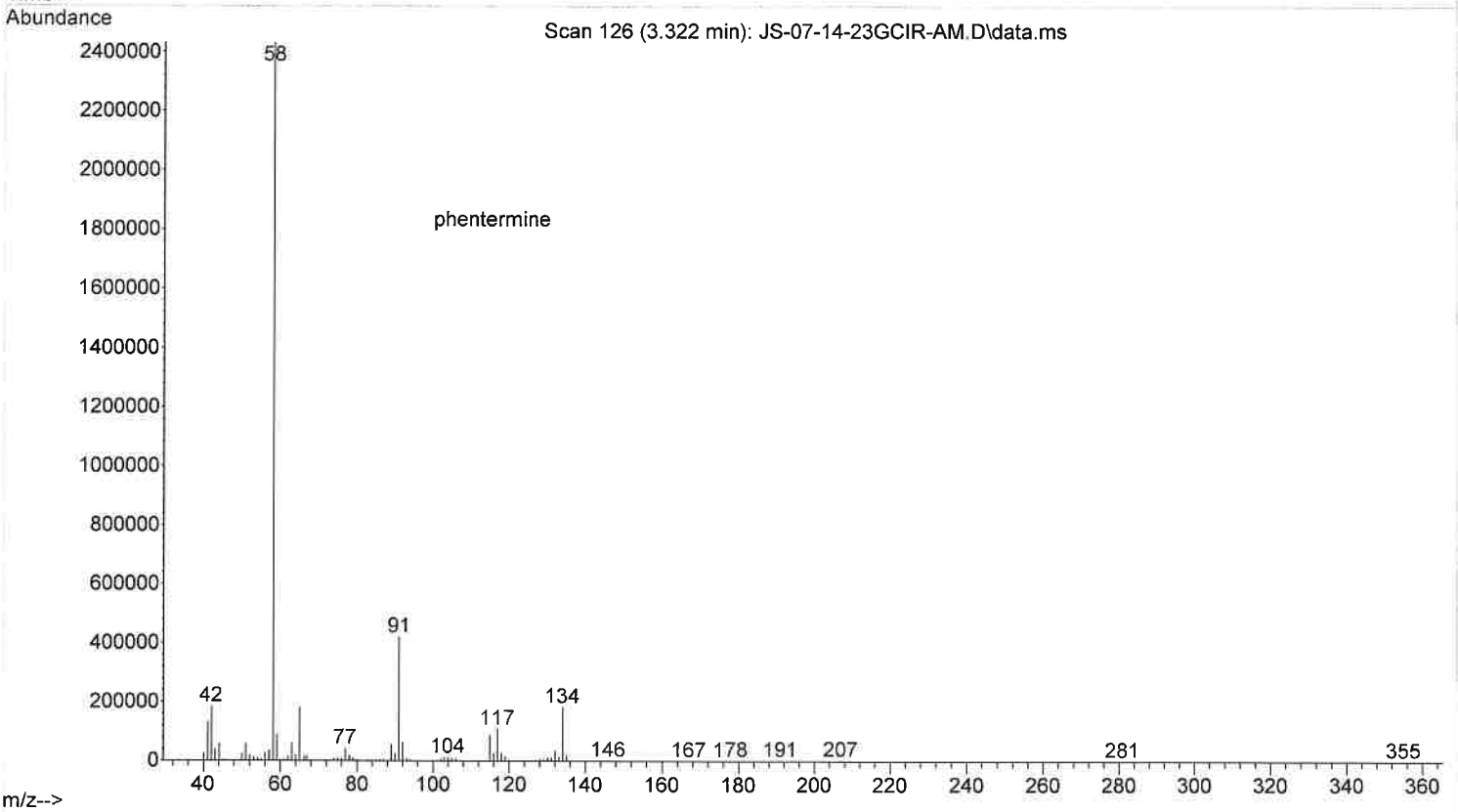
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23GCIR-AM.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 12:52 using AcqMethod AMINE.M
Sample Name: GCIR STD
Misc Info : CHCl3



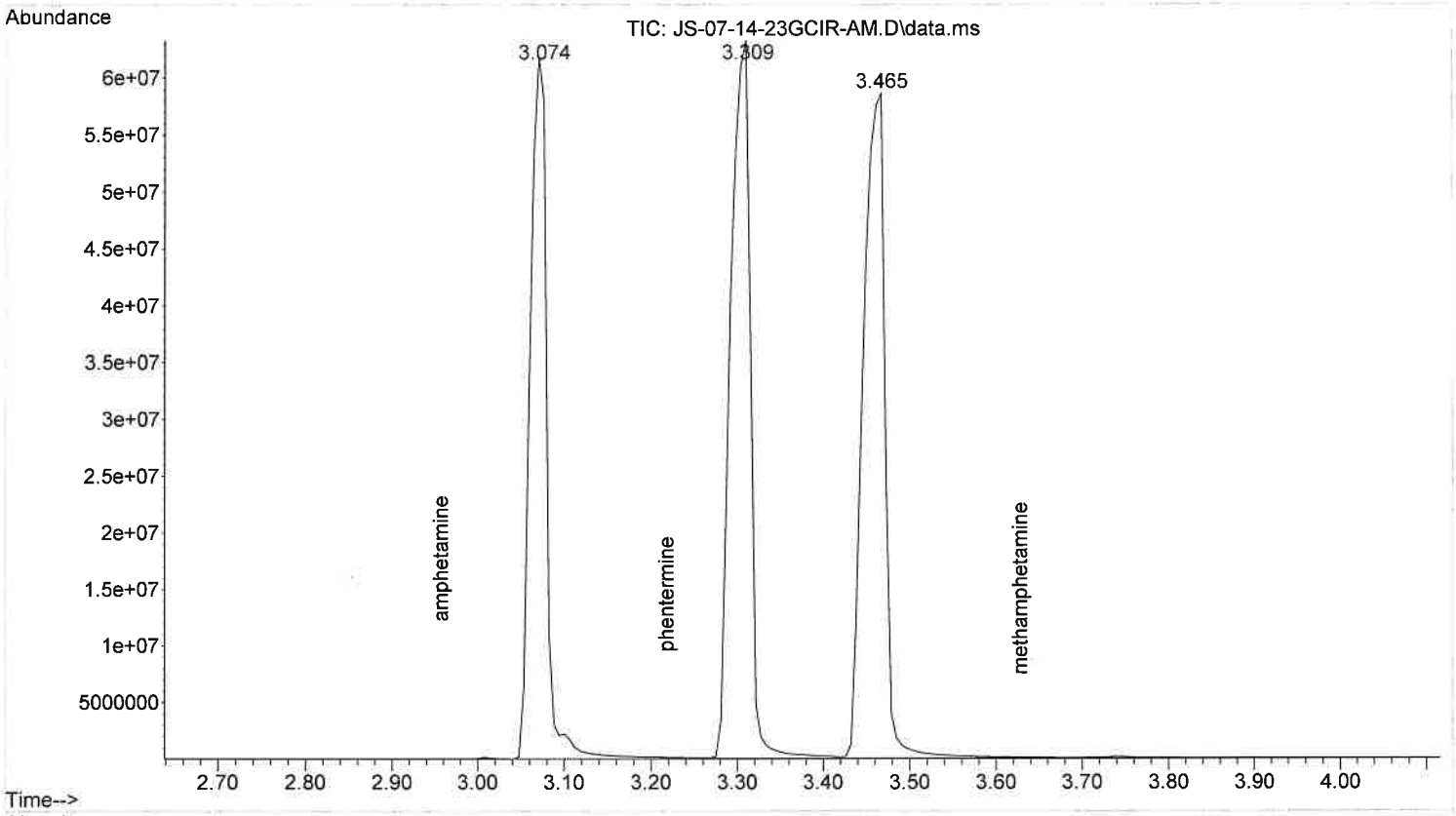



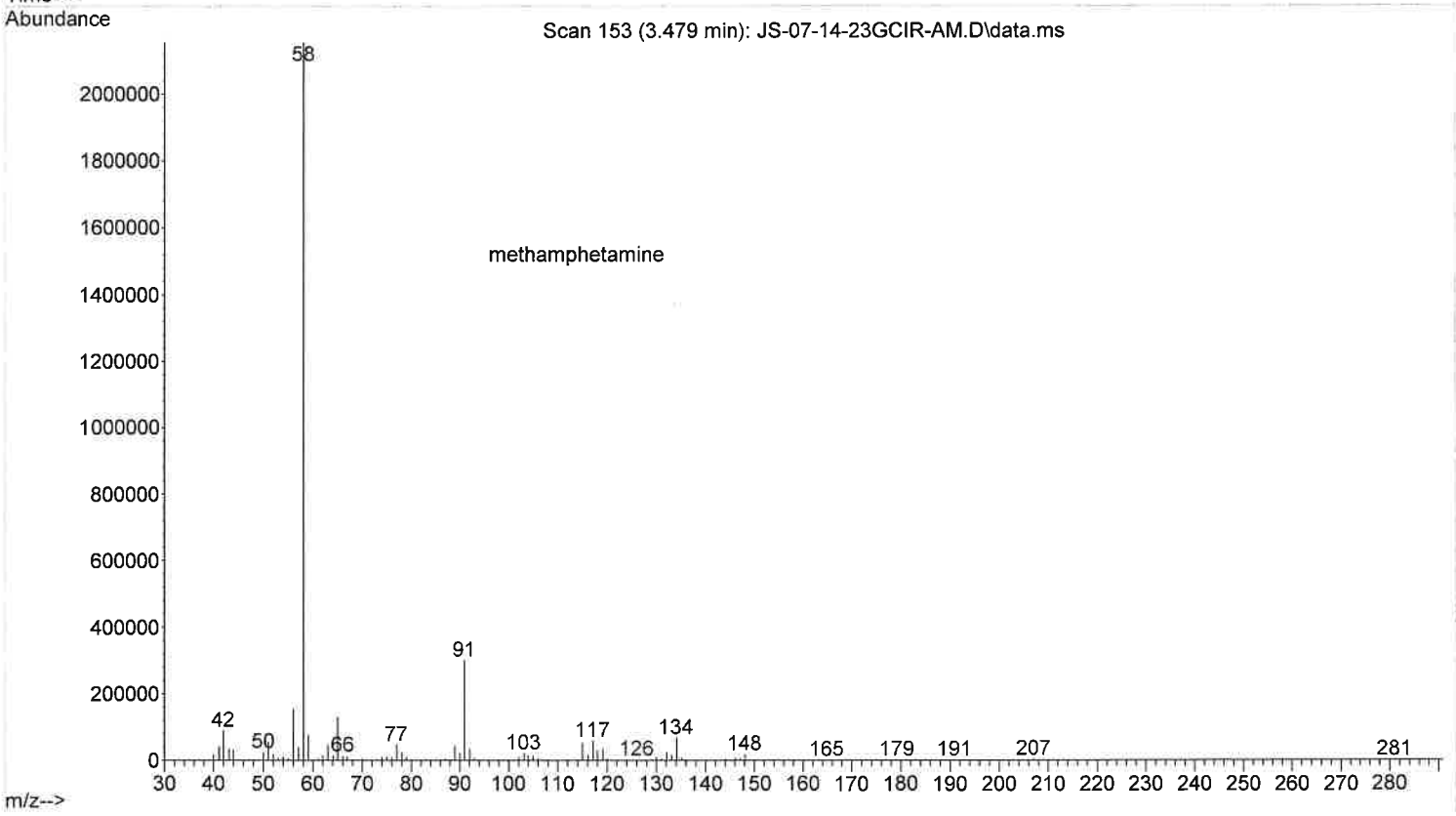
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23GCIR-AM.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 12:52 using AcqMethod AMINE.M
Sample Name: GCIR STD
Misc Info : CHCl3



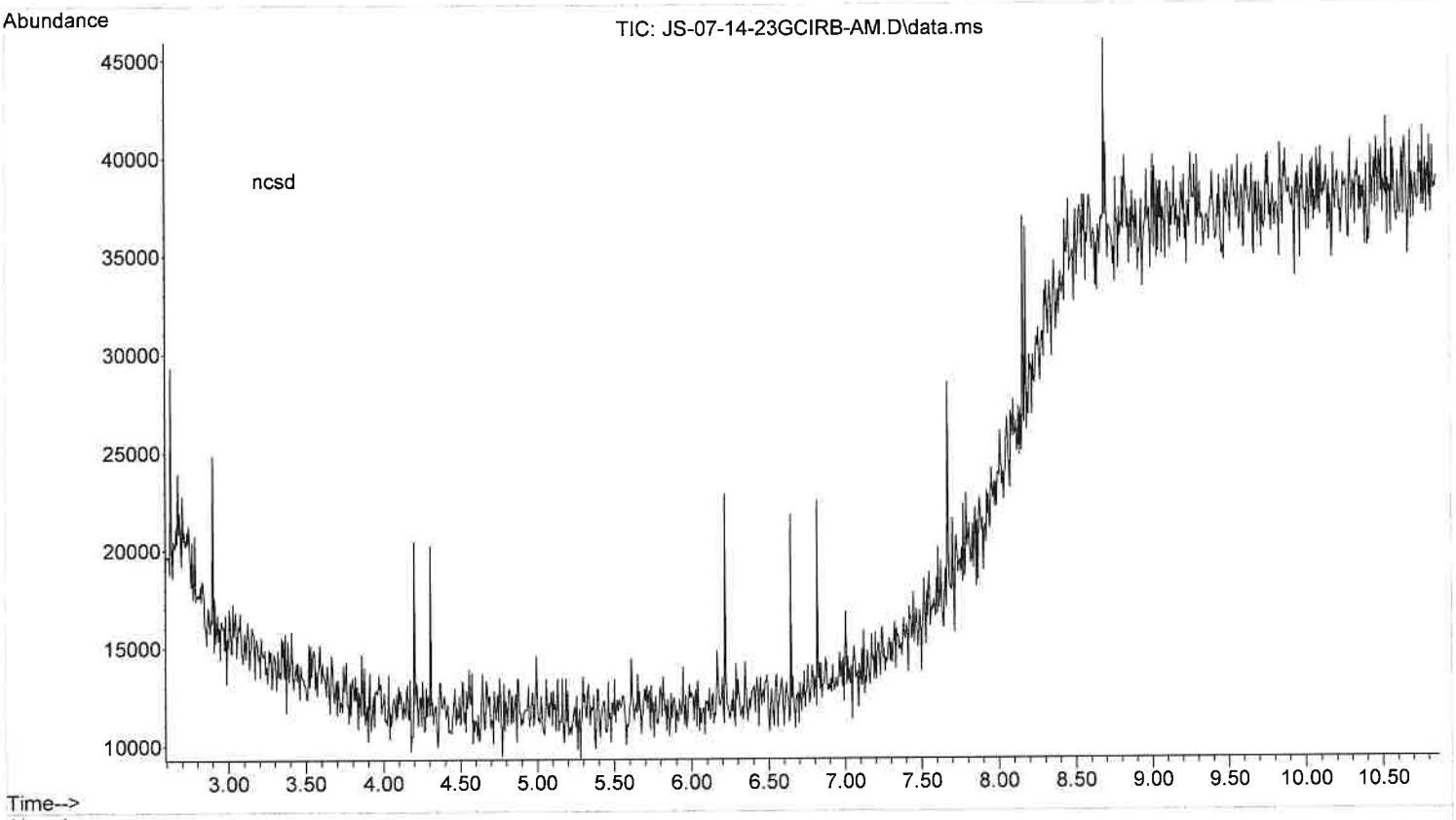



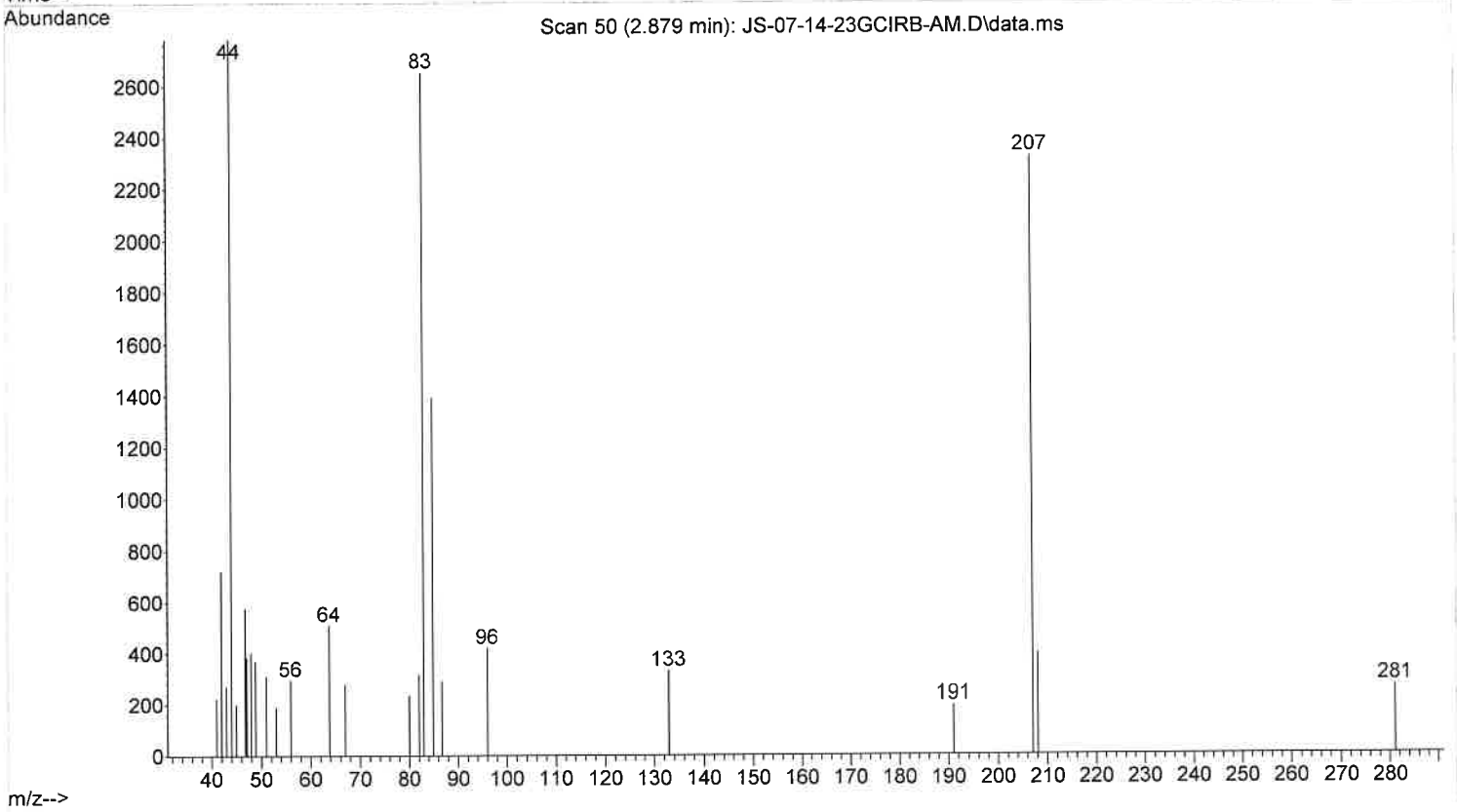
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23GCIR-AM.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 12:52 using AcqMethod AMINE.M
Sample Name: GCIR STD
Misc Info : CHCl3



File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23GCIRB-AM.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 12:37 using AcqMethod AMINE.M
Sample Name: GCIR STD BLANK
Misc Info : CHCl3



# METHOD CONTROL PARAMETERS

Method Information for: C:\MassHunter\GCMS\1\methods\BENZOMS.M

Method Sections To Run:

( ) Save Copy of Method With Data
( ) Instrument Control Pre-Run Cmd/Macro =
( ) Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
(X) Data Analysis
( ) Instrument Control Post-Run Cmd/Macro =
( ) Data Analysis Post-Run Cmd/Macro =

Method Comments:
This is the default method

END OF METHOD CONTROL PARAMETERS

INSTRUMENT CONTROL PARAMETERS: Dobby

C:\MassHunter\GCMS\1\methods\BENZOMS.M
Mon Jul 17 11:29:14 2023

Control Information

| | |
|---|---|
| Sample Inlet | : GC |
| Injection Source | : GC ALS |
| Injection Location: | Front |
| Mass Spectrometer | : Enabled |

No Sample Prep method has been assigned to this method.

| | |
|---|---|
| GC | |
| GC Summary | |
| Run Time | 7.0333 min |
| Post Run Time | 0 min |
| Oven | |
| Temperature | |
| Setpoint | On |
| (Initial) | 210 °C |
| Hold Time | 0.5 min |
| Post Run | 80 °C |
| Program | |
| #1 Rate | 30 °C/min |
| #1 Value | 280 °C |
| #1 Hold Time | 4.2 min |
| Equilibration Time | 0 min |
| Max Temperature | 325 °C |
| Maximum Temperature Override | Disabled |
| Slow Fan | Disabled |
| ALS | |
| Front Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |

| | |
|---|---|
| Solvent Wash Mode | A, B |
| | |
| Back Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Sample Overlap | |
| Mode | Sample overlap is not enabled |
| | |
| ALS Errors | Pause for user interaction |
| | |
| Front SS Inlet He | |
| Mode | Split |
| Heater | On 250 °C |
| Pressure | On 20 psi |
| Total Flow | On 41.727 mL/min |
| Septum Purge Flow | On 3 mL/min |
| Gas Saver | On 20 After 2 min mL/min |
| Split Ratio | 30.0001877747063 :1 |
| Split Flow | 37.478 mL/min |
| Liner | Agilent 5190-2270: 900 µL (Splitless, single taper, deacti |
| | |
| Back SS Inlet He | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Mode | Split |
| Heater | Off |
| Pressure | Off |
| Total Flow | Off |
| Septum Purge Flow | Off |
| Gas Saver | Off |
| Split Ratio | 1 :1 |
| Split Flow | 0 mL/min |
| Liner | A Liner has not been selected. |
| | |
| Thermal Aux 2 (MSD Transfer Line) | |
| Temperature | |
| Setpoint | On |
| (Initial) | 280 °C |

Column
Column #1
Flow

| | |
|---|---|
| Setpoint | On |
| (Initial) | 1.2493 mL/min |
| Post Run | 1.0812 mL/min |
| | |
| Column Information | Agilent 128-0112 |
| DB-1ms | |
| Temperature Range | -60 °C—340 °C (350 °C) |
| Dimensions | 12 m x 200 µm x 0.33 µm |
| Column lock | Unlocked |
| In | Front SS Inlet He |
| Out | MSD |
| (Initial) | 210 °C |
| Pressure | 20 psi |
| Flow | 1.2493 mL/min |
| Average Velocity | 68.687 cm/sec |
| Holdup Time | 0.29117 min |
| Control Mode | Constant Flow |
| | |
| Column #2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 0 psi |
| Post Run | 0 psi |
| | |
| Column Information | Agilent 19091Z-211 |
| HP-1 | |
| Temperature Range | -60 °C—325 °C (350 °C) |
| Dimensions | 15 m x 320 µm x 1 µm |
| Column lock | Unlocked |
| In | Back SS Inlet He |
| Out | Front Detector FID |
| (Initial) | 210 °C |
| Pressure | 0 psi |
| Flow | 0 mL/min |
| Average Velocity | 0 cm/sec |
| Holdup Time | ∞ min |
| Control Mode | Constant Pressure |
| | |
| Column Outlet Pressure | 0 psi |
| | |
| Front Detector FID | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Makeup | N2 |
| Heater | Off |
| H2 Flow | Off |
| Air Flow | Off |
| Makeup Flow | Off |
| Carrier Gas Flow Correction | Constant Makeup and Fuel Flow |
| Flame | Off |
| | |
| Aux EPC 1,2,3 | |
| Aux EPC 1 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| | |
| Aux EPC 2 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |

| | |
|---|---|
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Aux EPC 3 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

Signals
Signal #1: Test Plot

| | |
|---|---|
| Description | Test Plot |
| Save | Off |
| Data Rate | 50 Hz |
| Dual Injection Assignment | Front Sample |

Signal #2:

| | |
|---|---|
| Description | None |

Signal #3:

| | |
|---|---|
| Description | None |

Signal #4:

| | |
|---|---|
| Description | None |

TUNE PARAMETERS for SN: US1439L407

Trace Ion Detection is OFF.

| | | |
|---|---|---|
| 34.593 | : | EMISSION |
| 70.007 | : | ENERGY |
| 34.899 | : | REPELLER |
| 90.331 | : | IONFOCUS |
| 20.181 | : | ENTRANCE_LENS |
| 963.560 | : | EMVOLTS |
| 1151.3 | : | Actual EMV |
| 2.60 | : | GAIN FACTOR |
| 1322.000 | : | AMUGAIN |
| 123.750 | : | AMUOFFSET |
| 1.000 | : | FILAMENT |
| 0.000 | : | DCPOLARITY |
| 15.312 | : | ENTLENSOFFSET |
| 0.000 | : | Ion_Body |
| 0.000 | : | EXTLENS |
| -468.000 | : | MASSGAIN |
| -36.000 | : | MASSOFFSET |

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

# Single Quadrupole Acquisition Method - MS Parameters Report

| | |
|---|---|
| **Method file** | C:\MassHunter\GCMS\1\methods\BENZOMS.M |
| **Tune file** | ATUNE.U |
| **Ion source** | EI |
| **Source temperature (°C)** | 230 |
| **Quad temperature (°C)** | 150 |
| **Fixed Electron energy (eV)** | 70.0 |
| **Acquisition Type** | Scan |
| **Stop time (min)** | 10.00 |
| **Solvent delay (min)** | 1.50 |
| **Trace Ion Detection** | False |
| **Gain Factor** | 2.6 |
| **EM Saver** | False |
| **EM Saver Limit** | N/A |

**Scan Time Segments**

| Time | Start Mass | End Mass | Threshold | Scan Speed |
|---|---|---|---|---|
| 1.50 | 40 | 500 | 150 | 1,562 [N=2] |

**Timed Events**

| Time | Type of Event | Parameter |
|---|---|---|

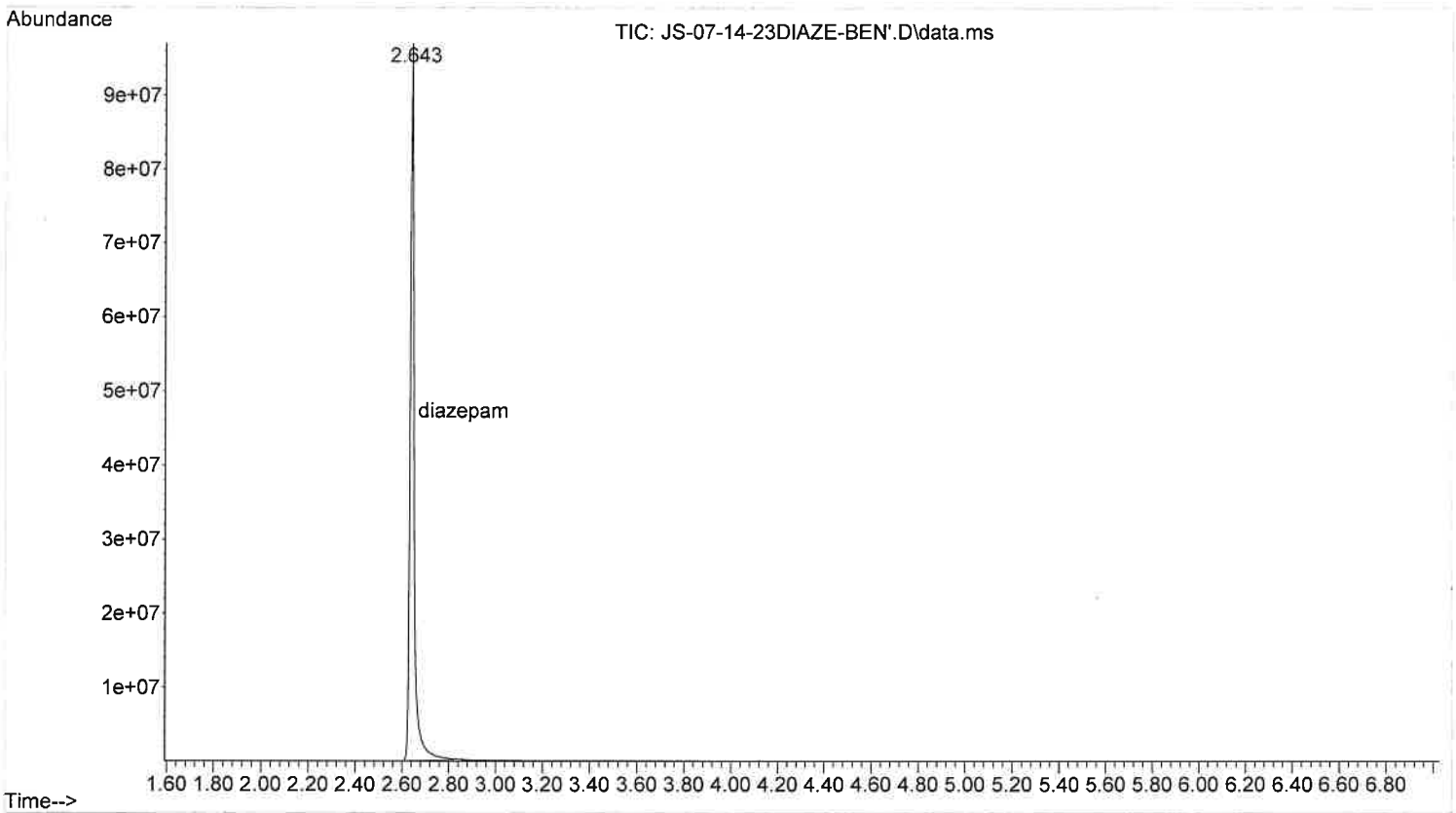
**Real-Time Plots**

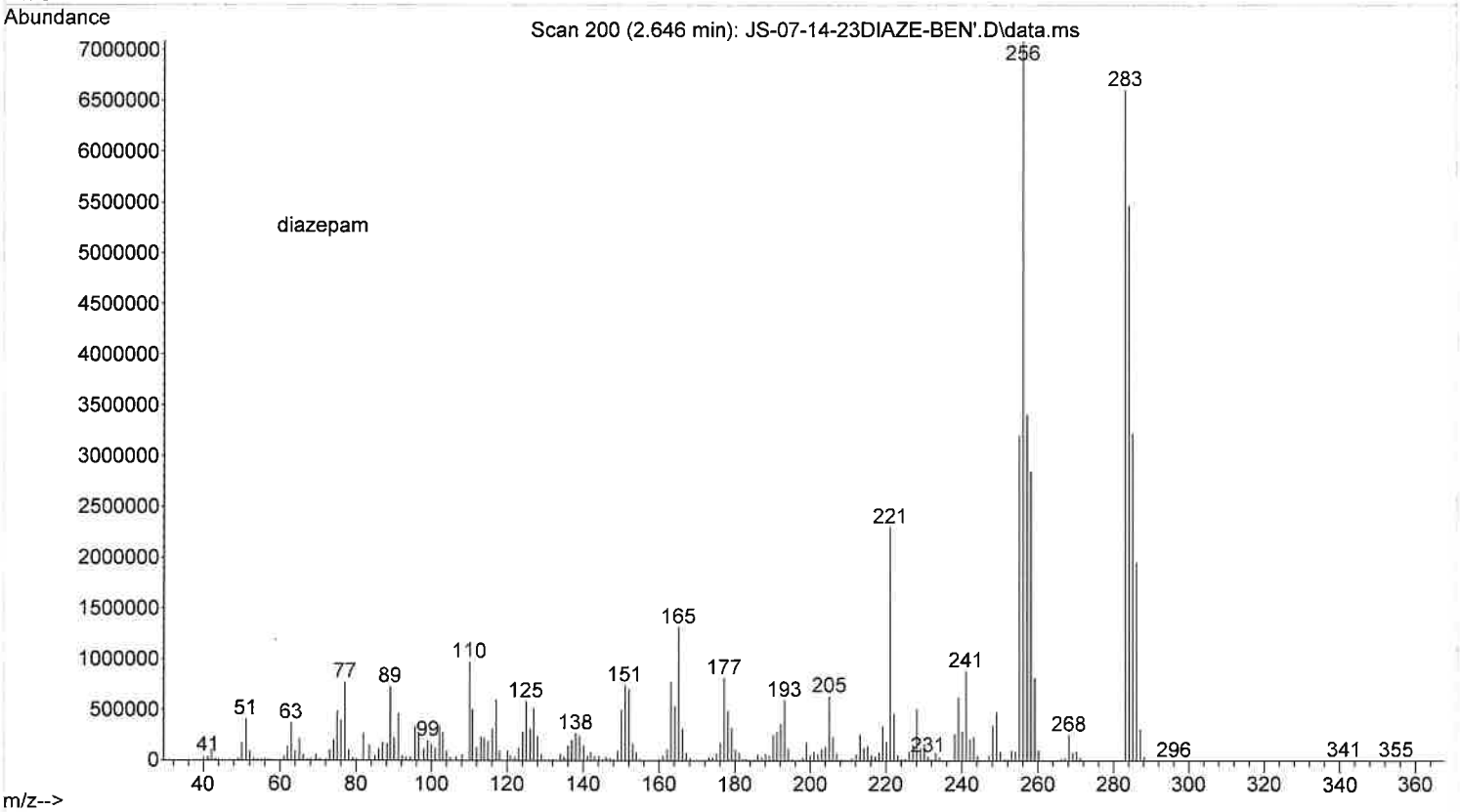
| Type of Plot | Label | Low Mass | High Mass |
|---|---|---|---|
| Total Ion | N/A | N/A | N/A |
| Spectrum | N/A | N/A | N/A |
| Extracted Ion | Scan 1-1 | 50 | 550 |
| Extracted Ion | Scan 1-2 | 40 | 550 |

**Self-Cleaning Ion Source Parameters**

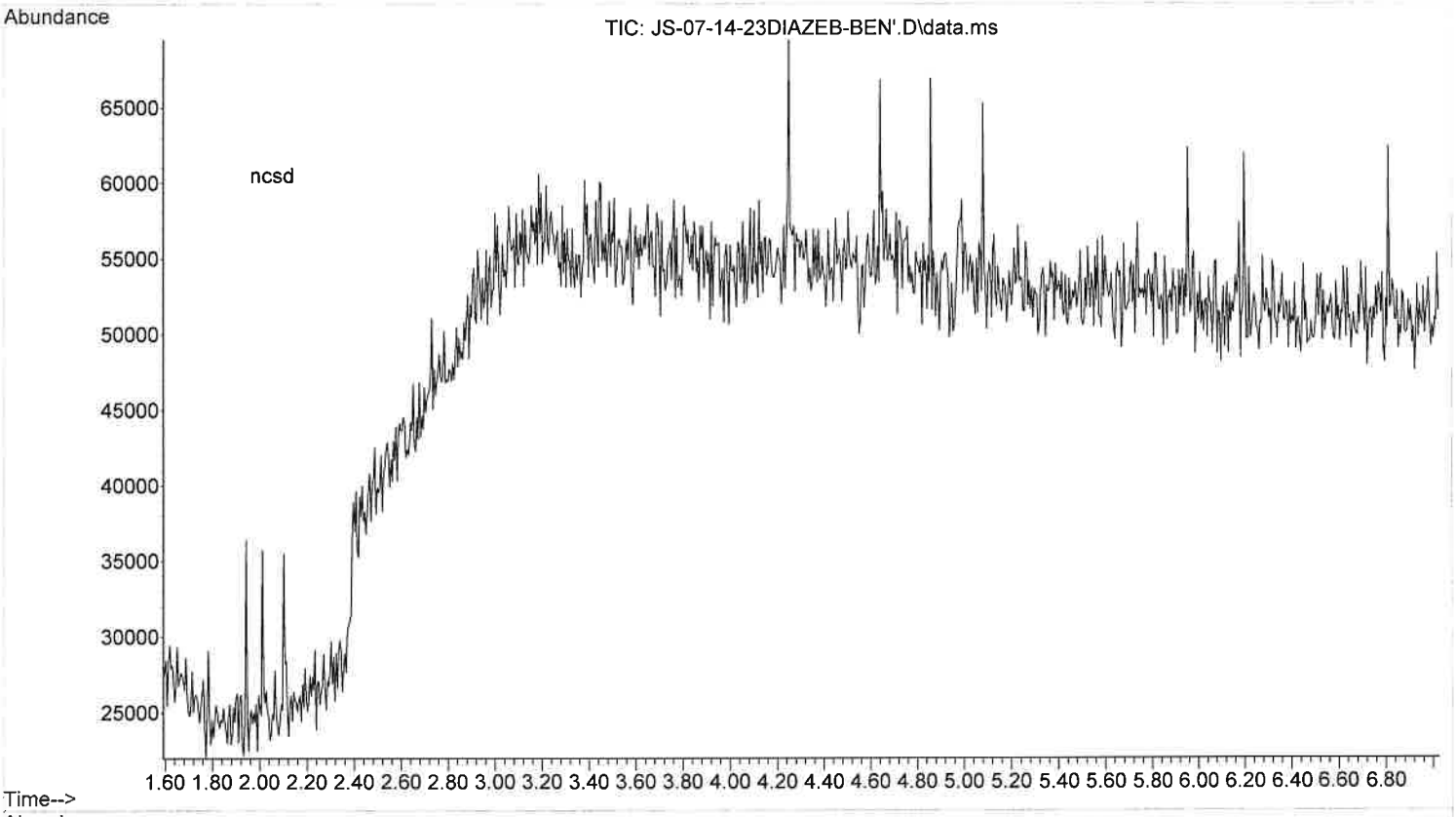
| | |
|---|---|
| Mode | No Cleaning |

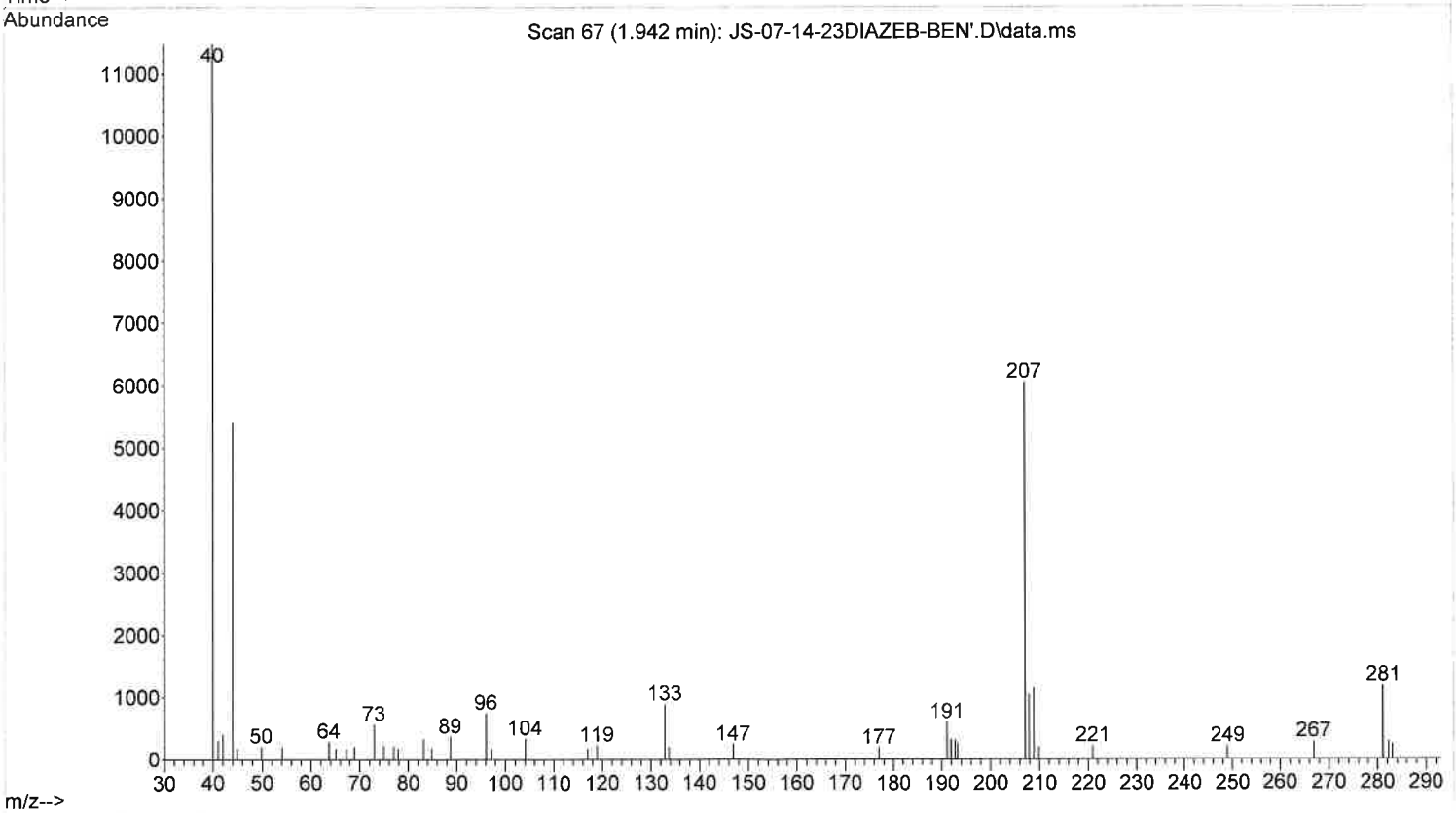
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23DIAZE-BEN'.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 15:03 using AcqMethod BENZOMS.M
Sample Name: DIAZEPAM STD
Misc Info : MeOH



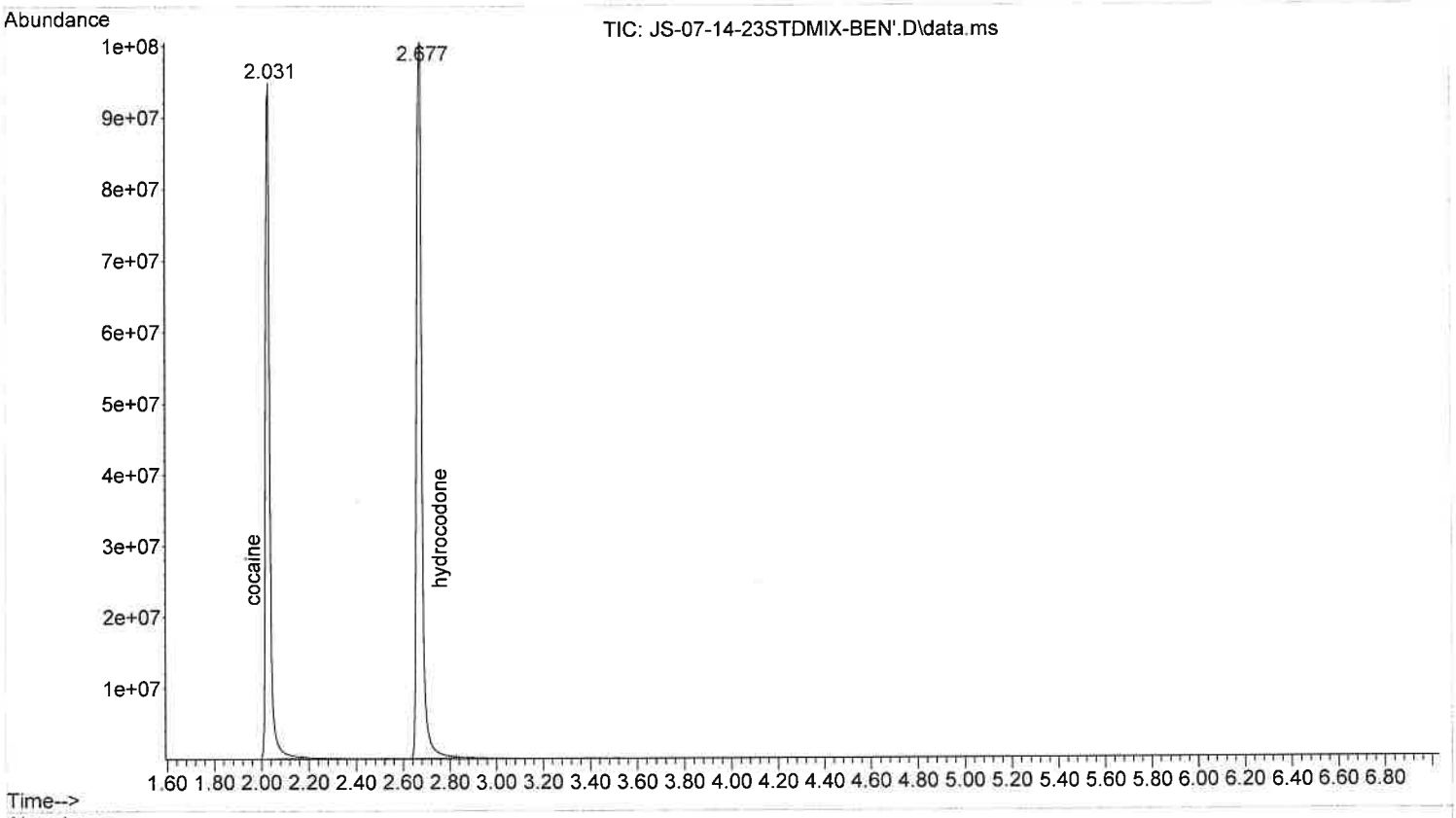



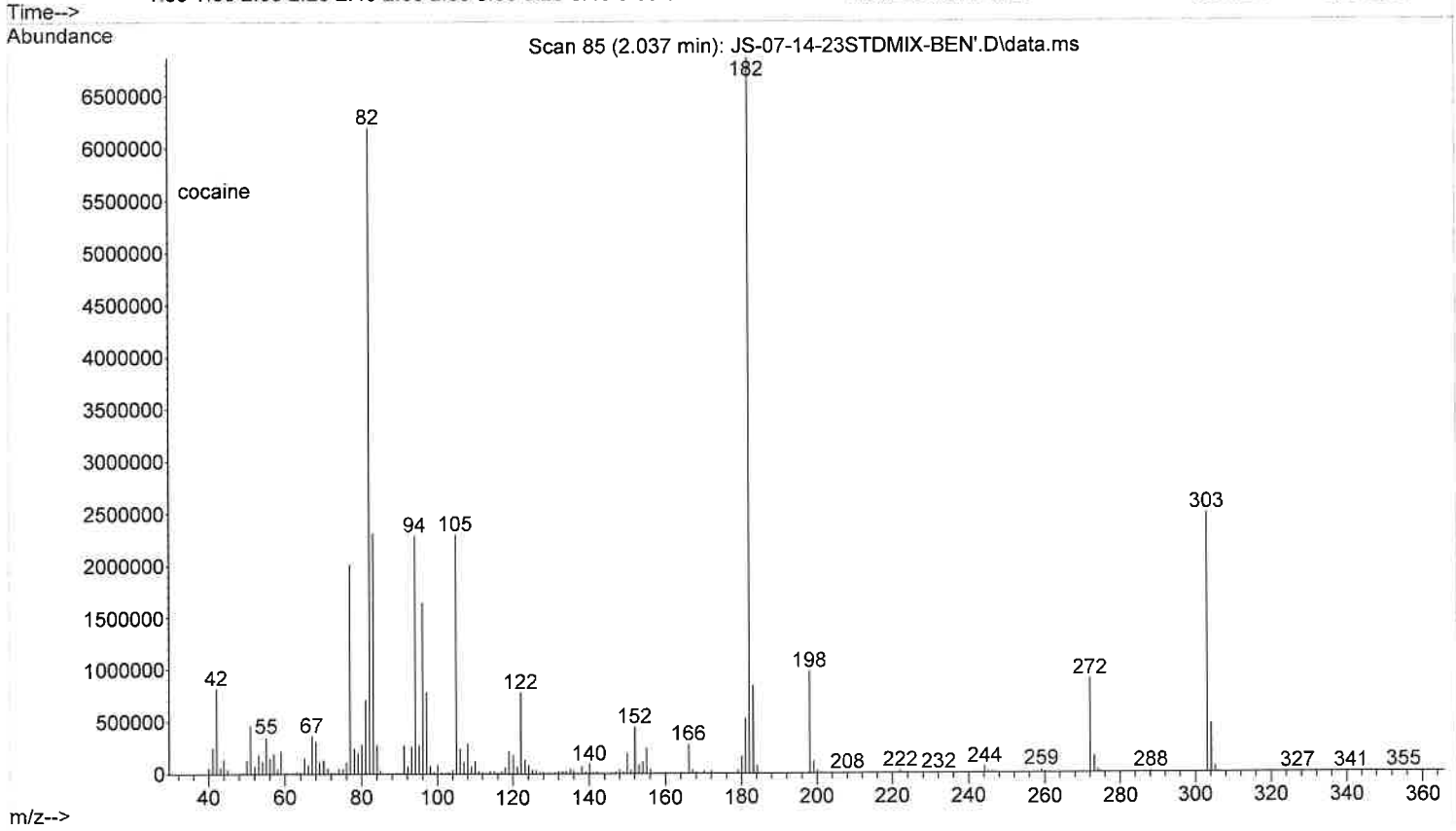
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23DIAZEB-BEN'.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 14:54 using AcqMethod BENZOMS.M
Sample Name: DIAZEPAM STD BLANK
Misc Info : MeOH



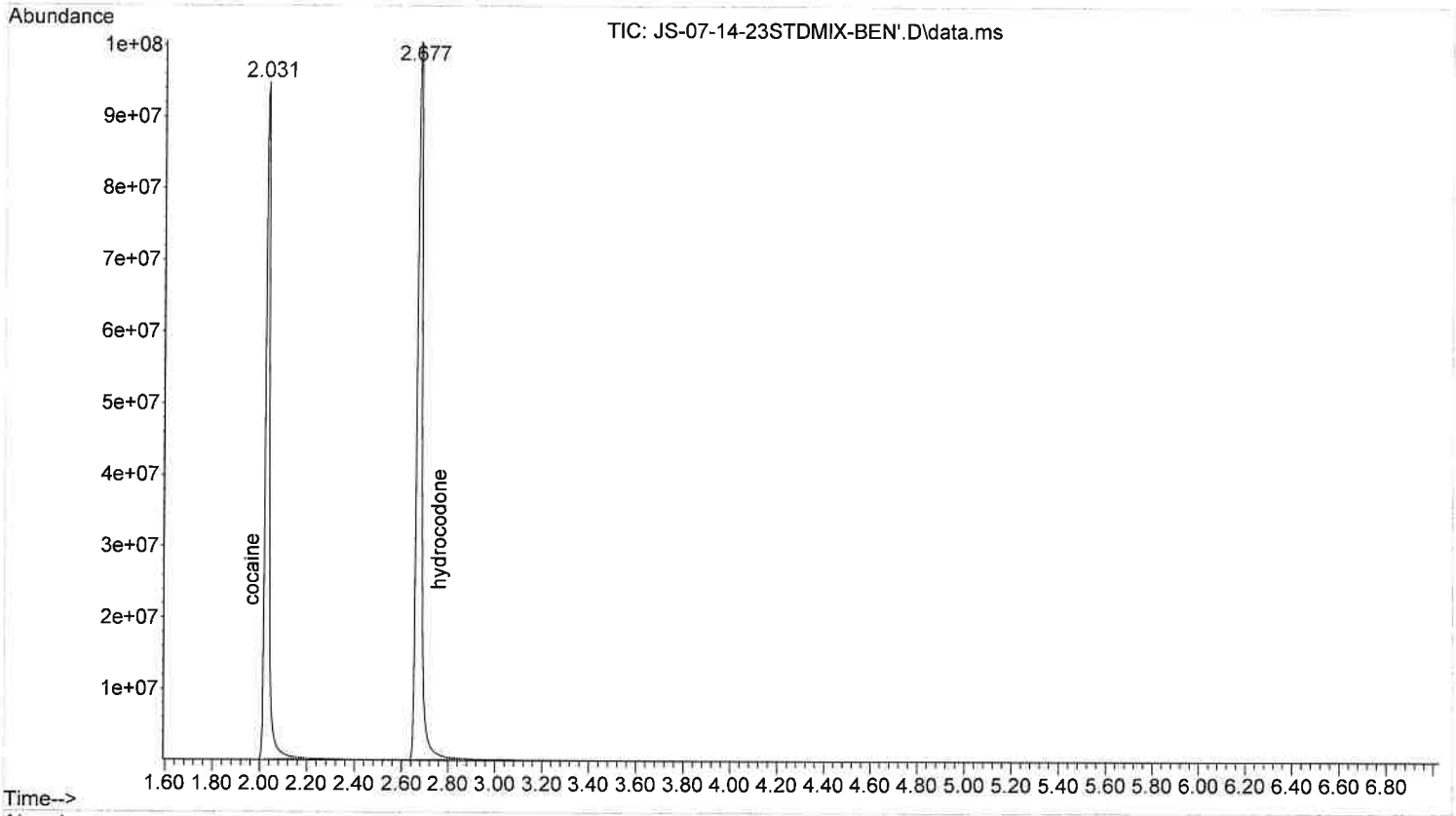



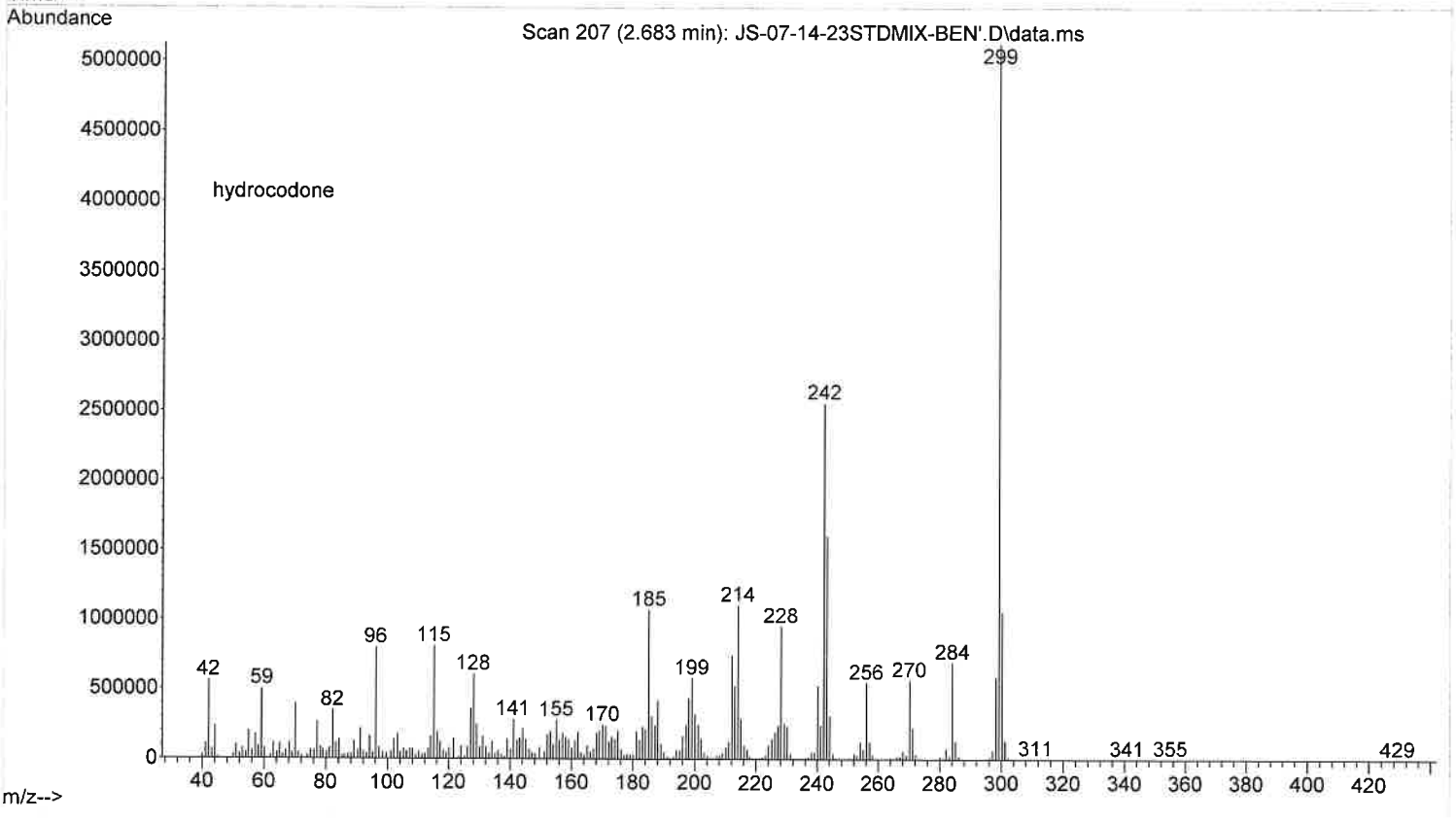
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23STDMIX-BEN'.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 14:27 using AcqMethod BENZOMS.M
Sample Name: STD MIX
Misc Info : CHCl3



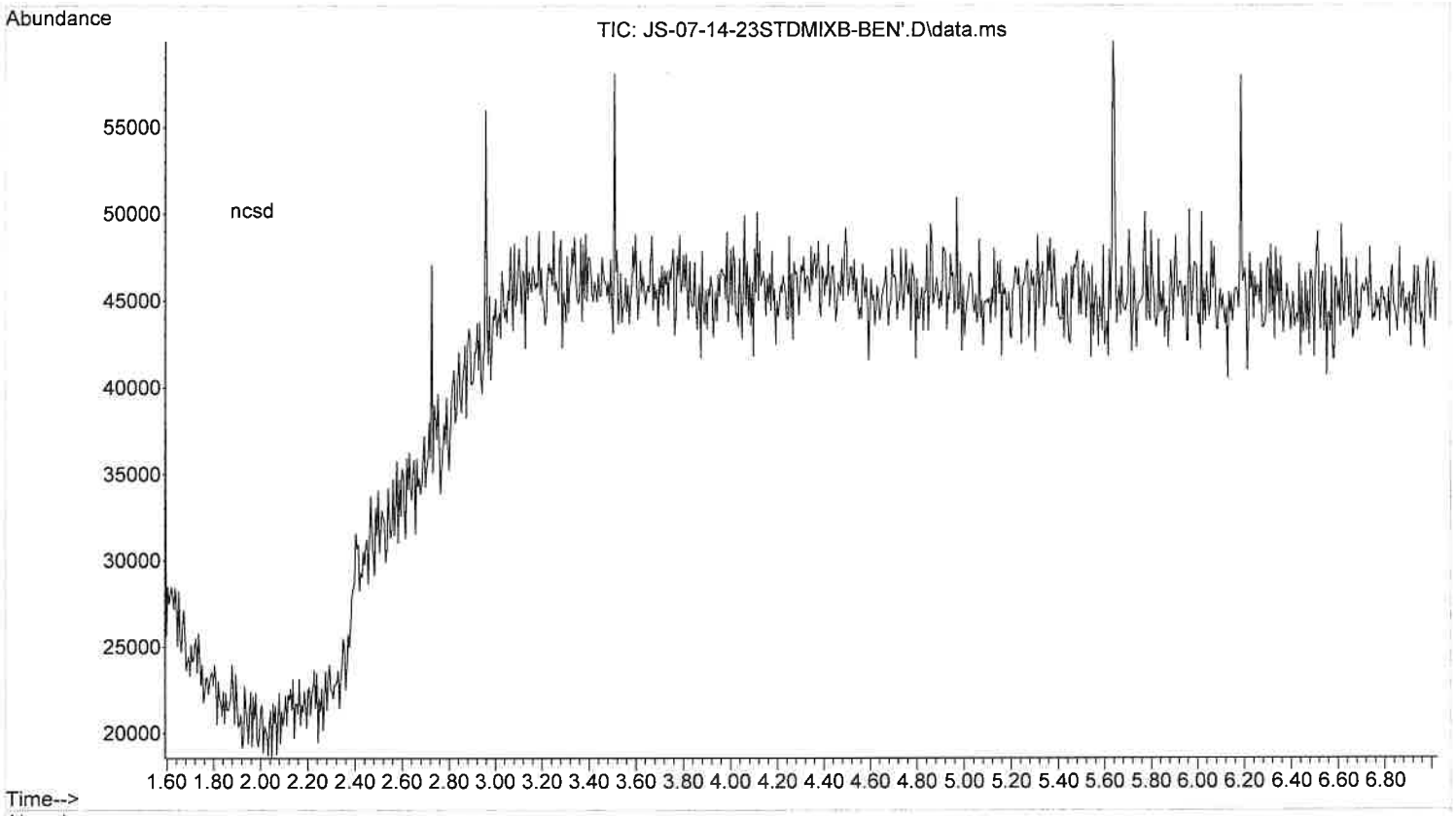



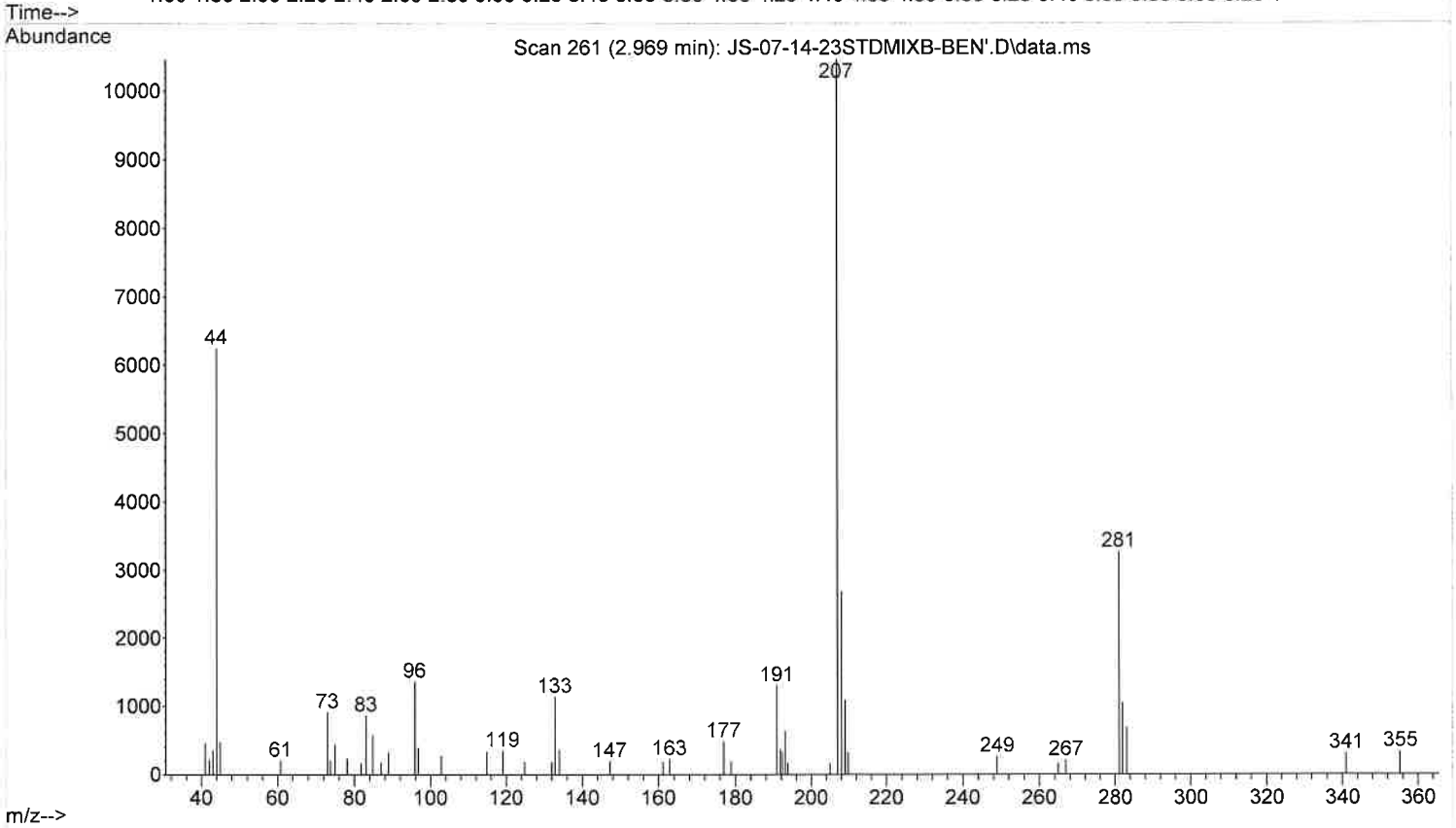
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23STDMIX-BEN'.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 14:27 using AcqMethod BENZOMS.M
Sample Name: STD MIX
Misc Info : CHCl3



File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23STDMIXB-BEN'.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 14:19 using AcqMethod BENZOMS.M
Sample Name: STD MIX BLANK
Misc Info : CHCl3



METHOD CONTROL PARAMETERS

Method Information for: C:\MassHunter\GCMS\1\methods\BUPMS.M

Method Sections To Run:

( ) Save Copy of Method With Data
( ) Instrument Control Pre-Run Cmd/Macro =
( ) Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
(X) Data Analysis
( ) Instrument Control Post-Run Cmd/Macro =
( ) Data Analysis Post-Run Cmd/Macro =

Method Comments:
This is the default method

END OF METHOD CONTROL PARAMETERS

INSTRUMENT CONTROL PARAMETERS: Dobby

C:\MassHunter\GCMS\1\methods\BUPMS.M
Mon Jul 17 11:30:01 2023

Control Information

| | |
|---|---|
| Sample Inlet | : GC |
| Injection Source | : GC ALS |
| Injection Location: | Front |
| Mass Spectrometer | : Enabled |

No Sample Prep method has been assigned to this method.

GC

| | |
|---|---|
| GC Summary | |
| Run Time | 11.5 min |
| Post Run Time | 0 min |
| Oven | |
| Temperature | |
| Setpoint | On |
| (Initial) | 240 °C |
| Hold Time | 0 min |
| Post Run | 80 °C |
| Program | |
| #1 Rate | 40 °C/min |
| #1 Value | 280 °C |
| #1 Hold Time | 10.5 min |
| Equilibration Time | 0.5 min |
| Max Temperature | 325 °C |
| Maximum Temperature Override | Disabled |
| Slow Fan | Disabled |

ALS

| | |
|---|---|
| Front Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |

| | |
|---|---|
| Solvent Wash Mode | A, B |
| | |
| Back Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Sample Overlap | |
| Mode | Sample overlap is not enabled |
| | |
| ALS Errors | Pause for user interaction |
| | |
| Front SS Inlet He | |
| Mode | Split |
| Heater | On 250 °C |
| Pressure | On 17.958 psi |
| Total Flow | On 74 mL/min |
| Septum Purge Flow | On 3 mL/min |
| Gas Saver | On 20 After 2 min mL/min |
| Split Ratio | 69.9998743249809 :1 |
| Split Flow | 70 mL/min |
| Liner | Agilent 5190-2270: 900 µL (Splitless, single taper, deacti |
| | |
| Back SS Inlet He | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Mode | Split |
| Heater | Off |
| Pressure | Off |
| Total Flow | Off |
| Septum Purge Flow | Off |
| Gas Saver | Off |
| Split Ratio | 1 :1 |
| Split Flow | 0 mL/min |
| Liner | A Liner has not been selected. |
| | |
| Thermal Aux 2 (MSD Transfer Line) | |
| Temperature | |
| Setpoint | On |
| (Initial) | 280 °C |

Column
Column #1
Flow

| | |
|---|---|
| Setpoint | On |
| (Initial) | 1 mL/min |
| Post Run | 1.0812 mL/min |
| | |
| Column Information | Agilent 128-0112 |
| DB-1ms | |
| Temperature Range | -60 °C–340 °C (350 °C) |
| Dimensions | 12 m x 200 µm x 0.33 µm |
| Column lock | Unlocked |
| In | Front SS Inlet He |
| Out | MSD |
| (Initial) | 240 °C |
| Pressure | 17.958 psi |
| Flow | 1 mL/min |
| Average Velocity | 62.05 cm/sec |
| Holdup Time | 0.32232 min |
| Control Mode | Constant Flow |
| | |
| Column #2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 0 psi |
| Post Run | 0 psi |
| | |
| Column Information | Agilent 19091Z-211 |
| HP-1 | |
| Temperature Range | -60 °C–325 °C (350 °C) |
| Dimensions | 15 m x 320 µm x 1 µm |
| Column lock | Unlocked |
| In | Back SS Inlet He |
| Out | Front Detector FID |
| (Initial) | 240 °C |
| Pressure | 0 psi |
| Flow | 0 mL/min |
| Average Velocity | 0 cm/sec |
| Holdup Time | ∞ min |
| Control Mode | Constant Pressure |
| | |
| Column Outlet Pressure | 0 psi |
| | |
| Front Detector FID | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Makeup | N2 |
| Heater | Off |
| H2 Flow | Off |
| Air Flow | Off |
| Makeup Flow | Off |
| Carrier Gas Flow Correction | Constant Makeup and Fuel Flow |
| Flame | Off |
| | |
| Aux EPC 1,2,3 | |
| Aux EPC 1 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| | |
| Aux EPC 2 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |

| | |
|---|---|
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Aux EPC 3 N2 Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

Signals
Signal #1: Test Plot

| | |
|---|---|
| Description | Test Plot |
| Save | Off |
| Data Rate | 50 Hz |
| Dual Injection Assignment | Front Sample |
| Signal #2: Description | None |
| Signal #3: Description | None |
| Signal #4: Description | None |

TUNE PARAMETERS for SN: US1439L407

Trace Ion Detection is OFF.

| | | |
|---|---|---|
| 34.593 | : | EMISSION |
| 70.007 | : | ENERGY |
| 34.899 | : | REPELLER |
| 90.331 | : | IONFOCUS |
| 20.181 | : | ENTRANCE_LENS |
| 963.560 | : | EMVOLTS |
| 1151.3 | : | Actual EMV |
| 2.60 | : | GAIN FACTOR |
| 1322.000 | : | AMUGAIN |
| 123.750 | : | AMUOFFSET |
| 1.000 | : | FILAMENT |
| 0.000 | : | DCPOLARITY |
| 15.312 | : | ENTLENSOFFSET |
| 0.000 | : | Ion_Body |
| 0.000 | : | EXTLENS |
| -468.000 | : | MASSGAIN |
| -36.000 | : | MASSOFFSET |

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS
---

Method Name: C:\MassHunter\GCMS\1\methods\BUPMS.M

Percent Report Settings
---

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings
---

Peak Location of Unknown: Apex

| Library to Search | Minimum Quality |
|---|---|
| DEMO.L | 0 |

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

Quantitative Report Settings
---

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

Calibration Last Updated:

Reference Window: 10.00 Percent
Non-Reference Window: 5.00 Percent
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Mon Jul 17 11:30:06 2023

# Single Quadrupole Acquisition Method - MS Parameters Report

| | |
|---|---|
| **Method file** | C:\MassHunter\GCMS\1\methods\BUPMS.M |
| **Tune file** | ATUNE.U |
| **Ion source** | EI |
| **Source temperature (°C)** | 230 |
| **Quad temperature (°C)** | 150 |
| **Fixed Electron energy (eV)** | 70.0 |
| **Acquisition Type** | Scan |
| **Stop time (min)** | 10.00 |
| **Solvent delay (min)** | 1.00 |
| **Trace Ion Detection** | False |
| **Gain Factor** | 2.6 |
| **EM Saver** | False |
| **EM Saver Limit** | N/A |

**Scan Time Segments**

| Time | Start Mass | End Mass | Threshold | Scan Speed |
|---|---|---|---|---|
| 1.00 | 40 | 500 | 150 | 1,562 [N=2] |

**Timed Events**

| Time | Type of Event | Parameter |
|---|---|---|

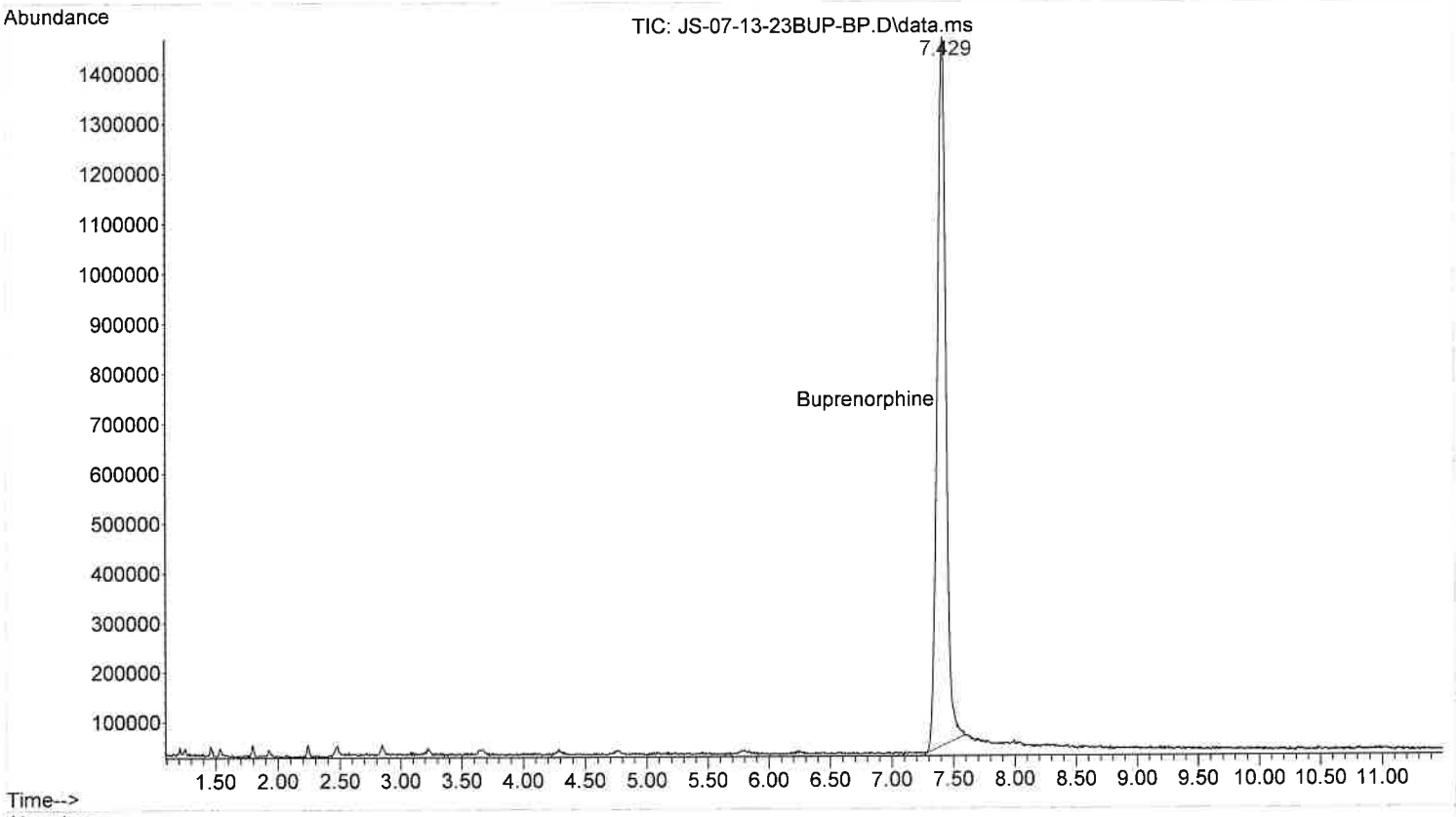
**Real-Time Plots**

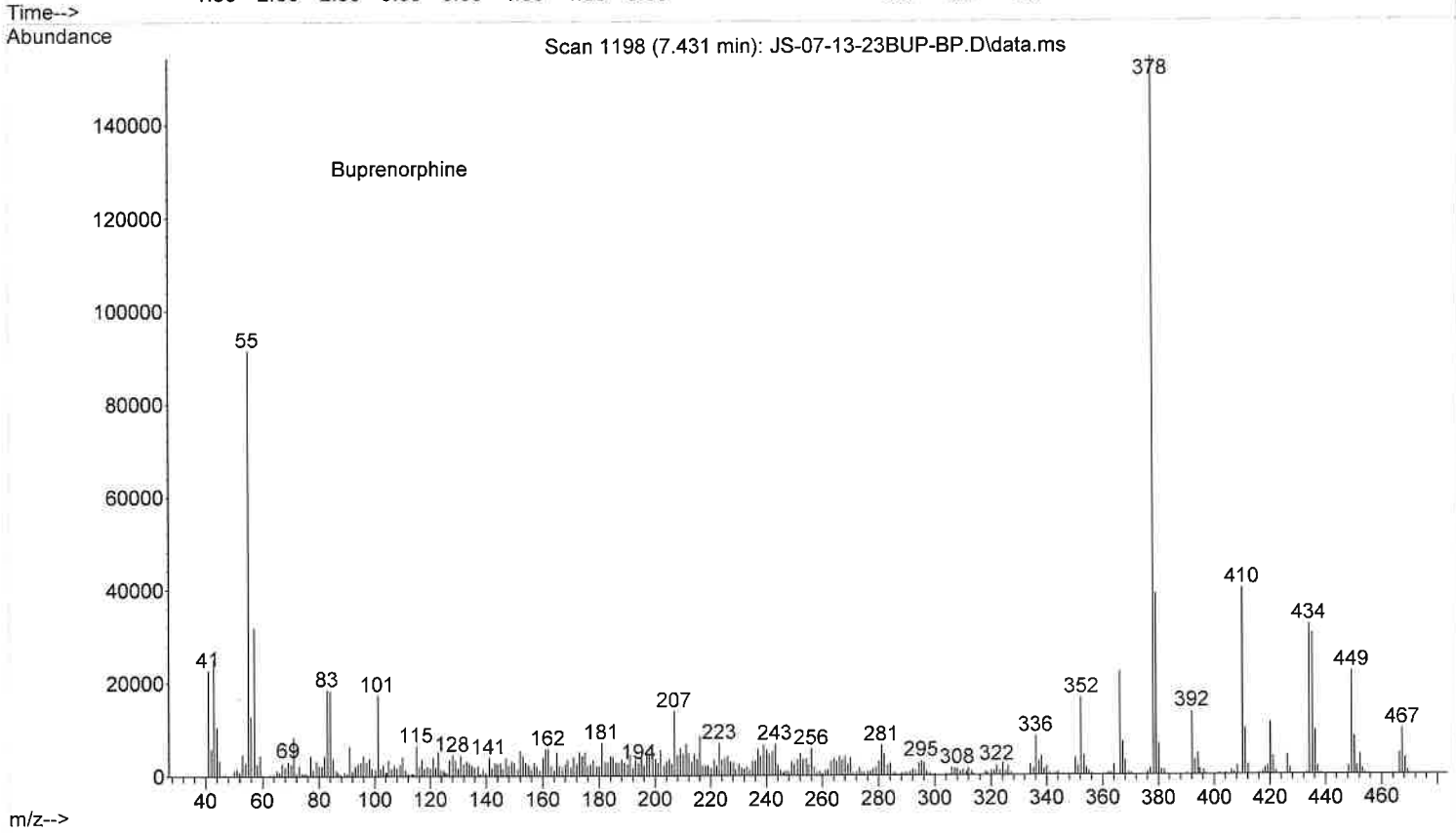
| Type of Plot | Label | Low Mass | High Mass |
|---|---|---|---|
| Total Ion | N/A | N/A | N/A |
| Spectrum | N/A | N/A | N/A |
| Extracted Ion | Scan 1-1 | 50 | 550 |
| Extracted Ion | Scan 1-2 | 40 | 550 |

**Self-Cleaning Ion Source Parameters**

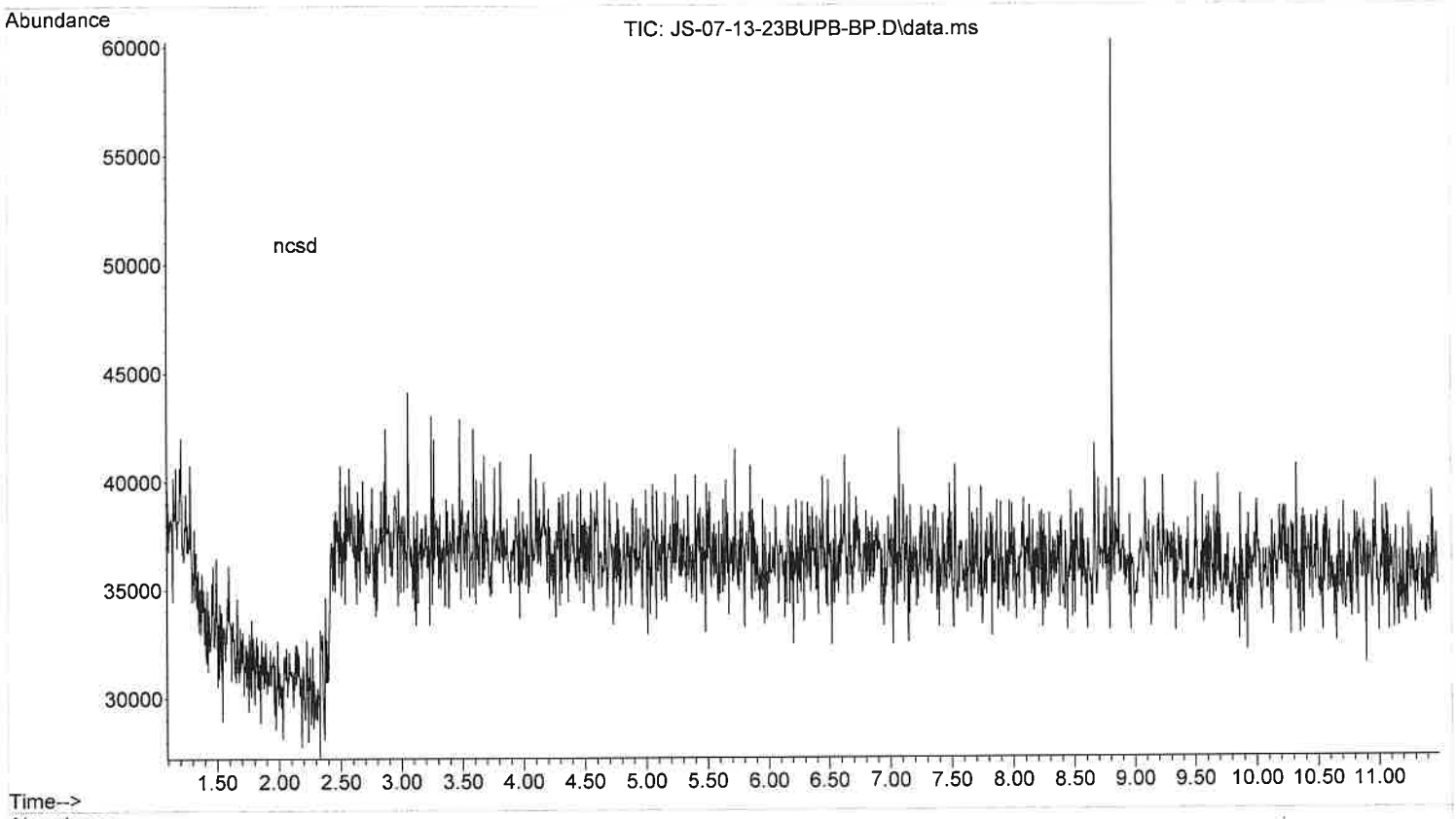
| | |
|---|---|
| Mode | No Cleaning |

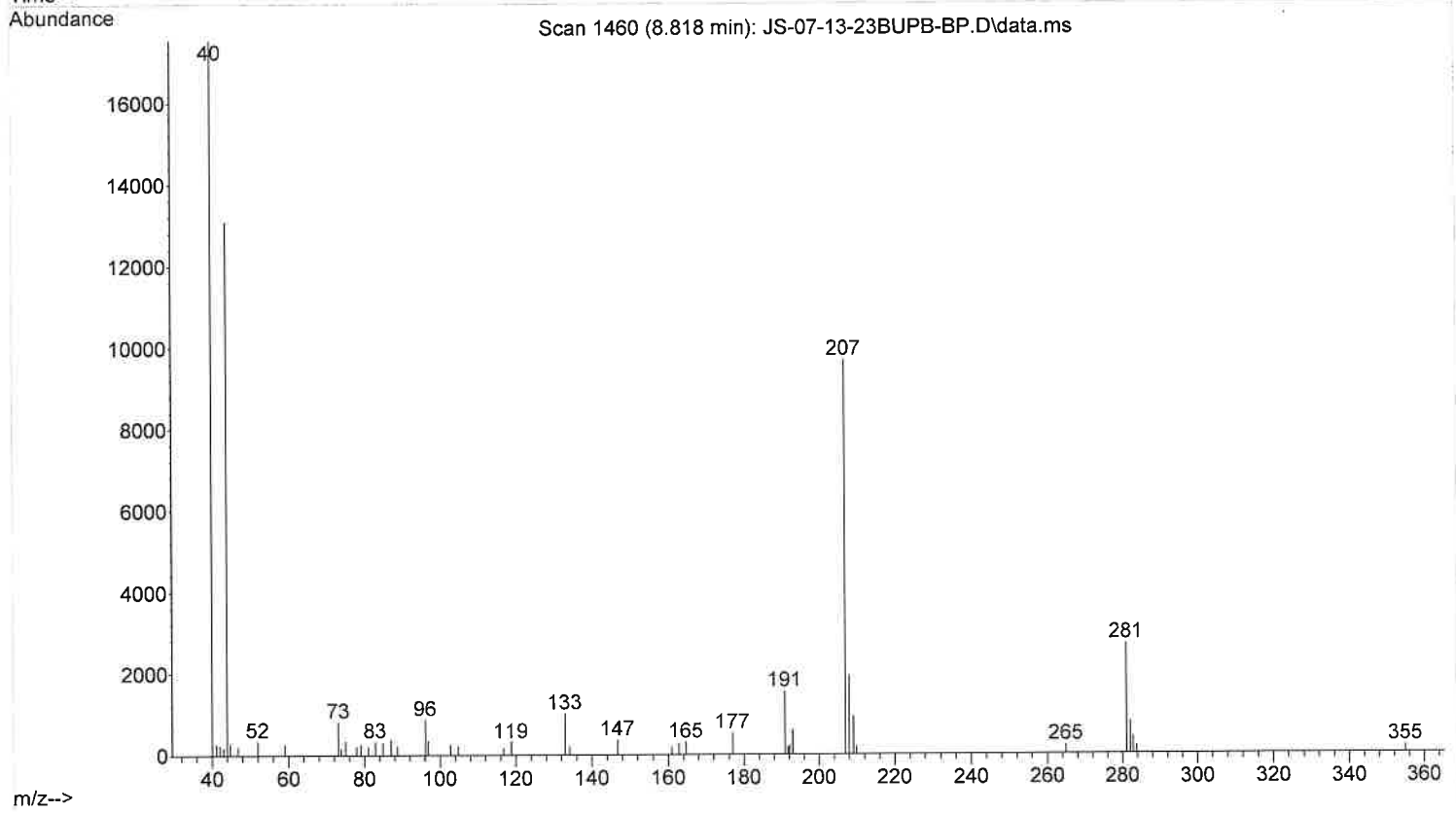
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23BUP-BP.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 16:50 using AcqMethod BUPMS.M
Sample Name: BUPRENORPHINE STD
Misc Info : CHCl3



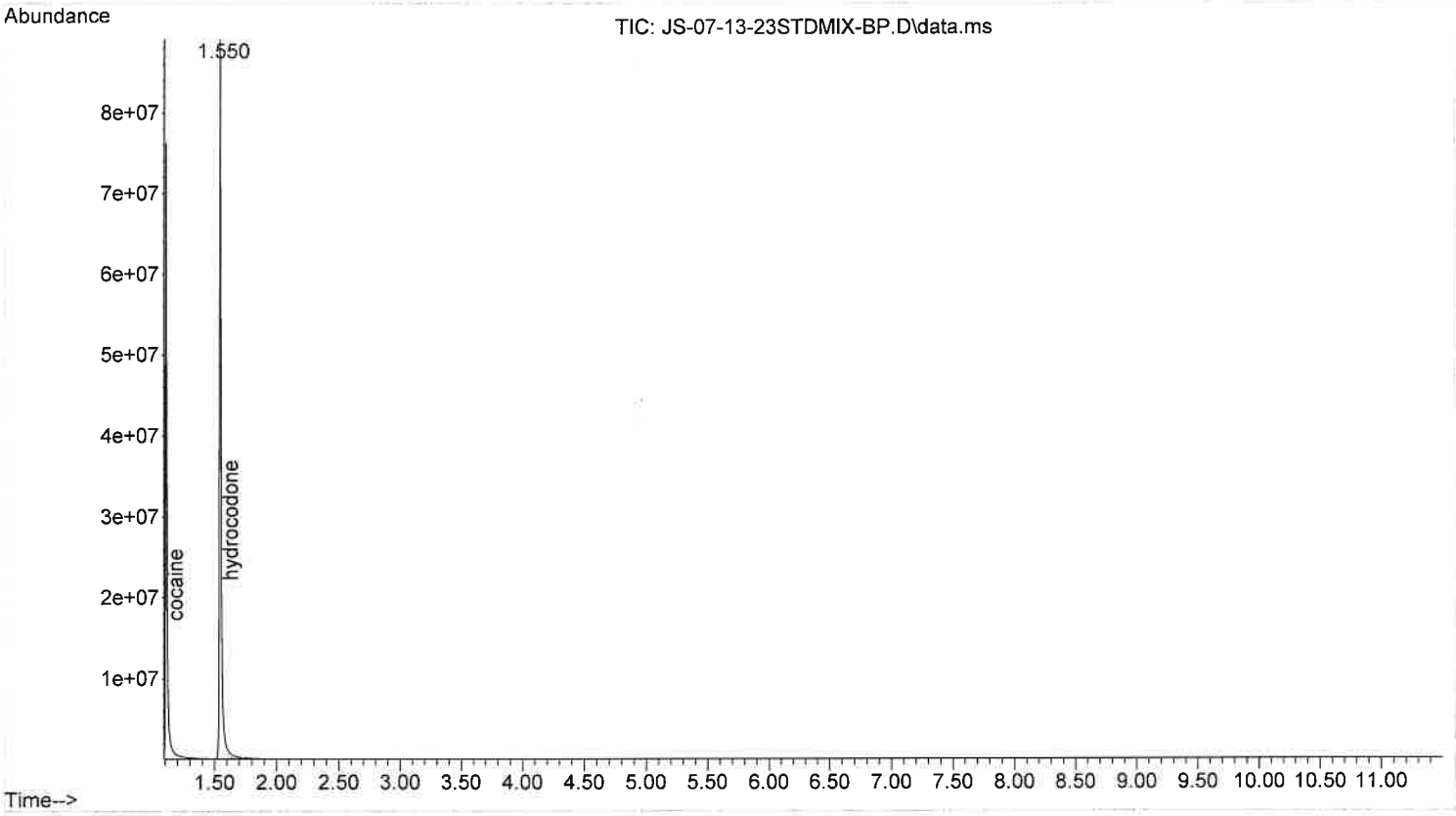



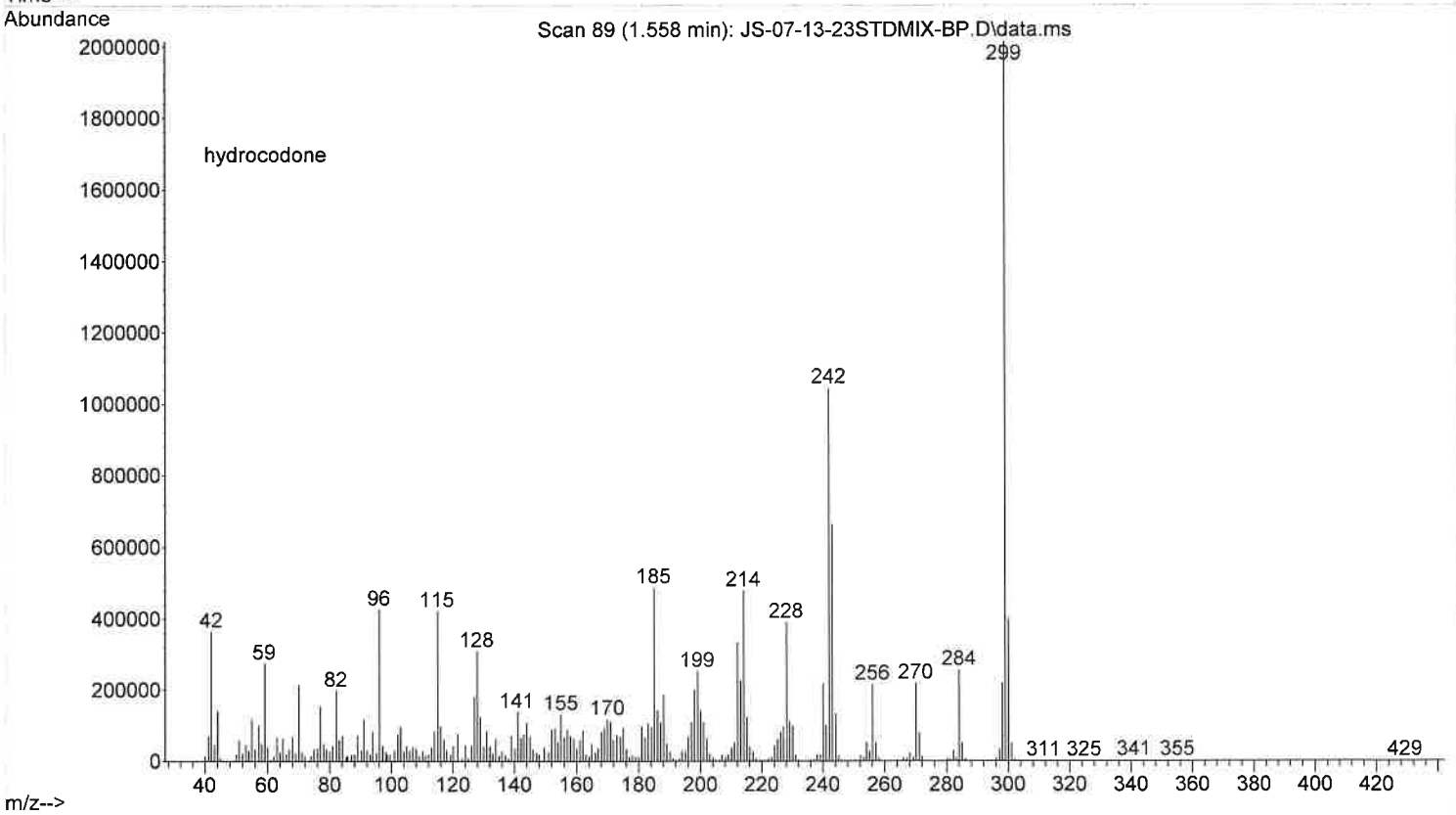
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23BUPB-BP.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 16:36 using AcqMethod BUPMS.M
Sample Name: BUPRENORPHINE STD BLANK
Misc Info : CHCl3



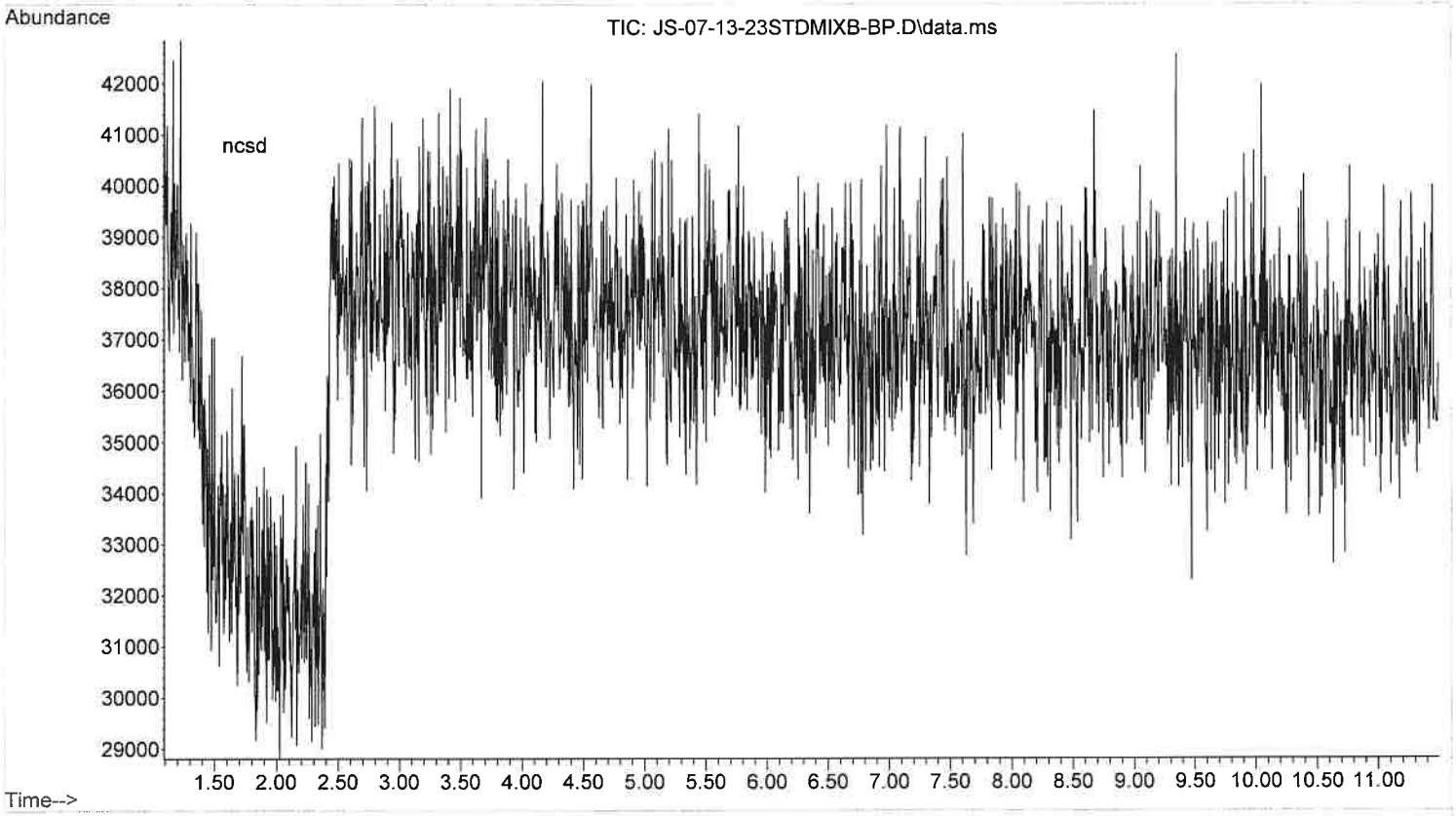



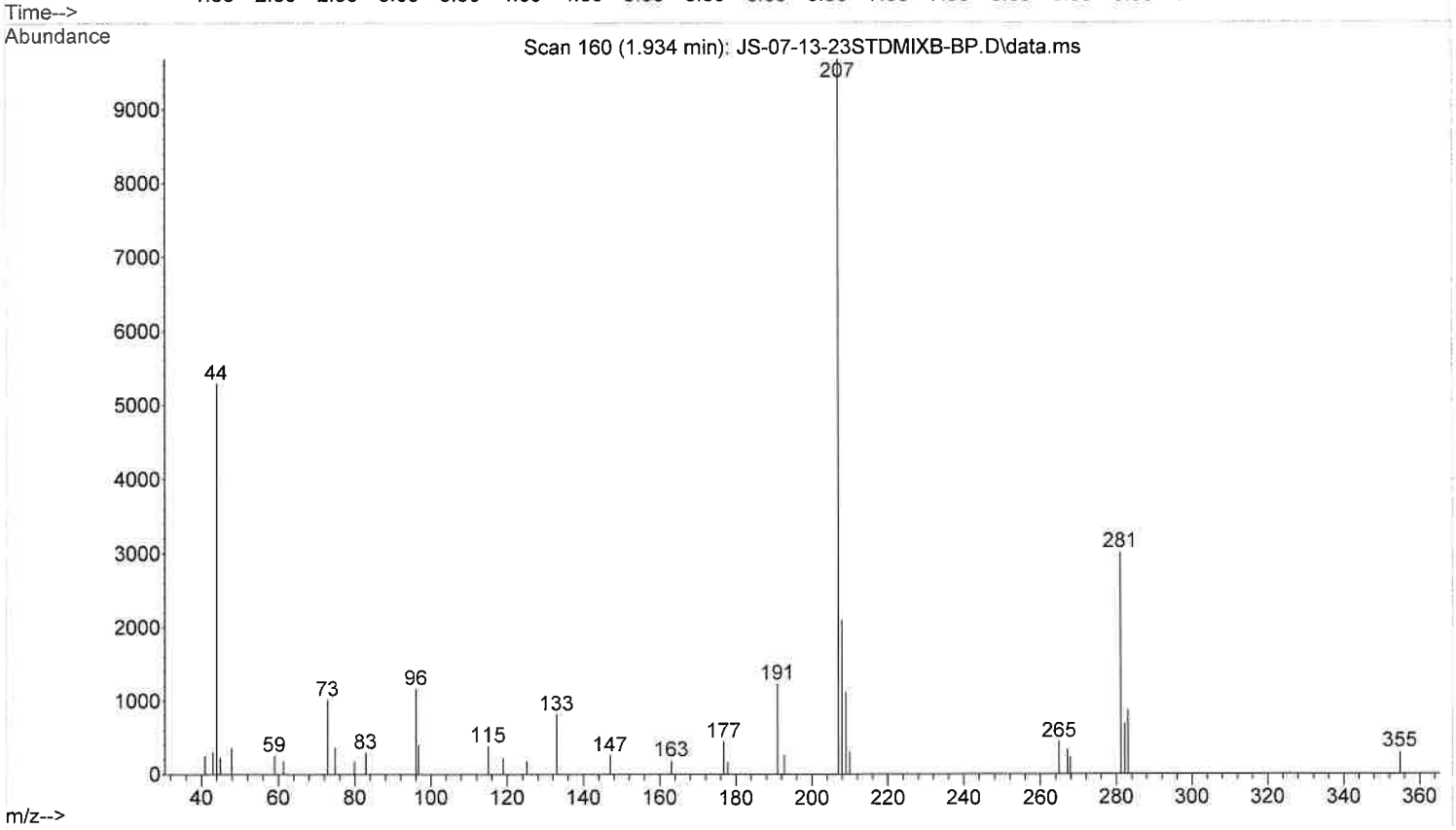
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23STDMIX-BP.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 16:03 using AcqMethod BUPMS.M
Sample Name: STD MIX
Misc Info : CHCl3



File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23STDMIXB-BP.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 15:50 using AcqMethod BUPMS.M
Sample Name: STD MIX BLANK
Misc Info : CHCl3



METHOD CONTROL PARAMETERS

Method Information for: C:\MassHunter\GCMS\1\methods\DRUG1.M

Method Sections To Run:

( ) Save Copy of Method With Data
( ) Instrument Control Pre-Run Cmd/Macro =
( ) Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
(X) Data Analysis
( ) Instrument Control Post-Run Cmd/Macro =
( ) Data Analysis Post-Run Cmd/Macro =

Method Comments:
This is the default method

END OF METHOD CONTROL PARAMETERS

INSTRUMENT CONTROL PARAMETERS: Dobby

C:\MassHunter\GCMS\1\methods\DRUG1.M
Mon Jul 17 11:32:55 2023

Control Information

| | |
|---|---|
| Sample Inlet | : GC |
| Injection Source | : GC ALS |
| Injection Location: | Front |
| Mass Spectrometer | : Enabled |

No Sample Prep method has been assigned to this method.

GC

GC Summary

| | |
|---|---|
| Run Time | 14.667 min |
| Post Run Time | 0 min |

Oven

| | |
|---|---|
| Temperature | |
| Setpoint | On |
| (Initial) | 80 °C |
| Hold Time | 2 min |
| Post Run | 50 °C |
| Program | |
| #1 Rate | 30 °C/min |
| #1 Value | 280 °C |
| #1 Hold Time | 6 min |
| Equilibration Time | 0.5 min |
| Max Temperature | 325 °C |
| Maximum Temperature Override | Disabled |
| Slow Fan | Disabled |

ALS

| | |
|---|---|
| Front Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |

| | |
|---|---|
| Solvent Wash Mode | A, B |
| | |
| Back Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Sample Overlap | |
| Mode | Sample overlap is not enabled |
| | |
| ALS Errors | Pause for user interaction |
| | |
| Front SS Inlet He | |
| Mode | Split |
| Heater | On 250 °C |
| Pressure | On 9.1608 psi |
| Total Flow | On 49 mL/min |
| Septum Purge Flow | On 3 mL/min |
| Gas Saver | On 20 After 2 min mL/min |
| Split Ratio | 45 :1 |
| Split Flow | 45 mL/min |
| Liner | Agilent 5190-2270: 900 µL (Splitless, single taper, deacti |
| | |
| Back SS Inlet He | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Mode | Split |
| Heater | Off |
| Pressure | Off |
| Total Flow | Off |
| Septum Purge Flow | Off |
| Gas Saver | Off |
| Split Ratio | 1 :1 |
| Split Flow | 0 mL/min |
| Liner | A Liner has not been selected. |
| | |
| Thermal Aux 2 (MSD Transfer Line) | |
| Temperature | |
| Setpoint | On |
| (Initial) | 280 °C |

Column
Column #1
Flow

| | |
|---|---|
| Setpoint | On |
| (Initial) | 1 mL/min |
| Post Run | 1.0812 mL/min |
| | |
| Column Information | Agilent 128-0112 |
| DB-1ms | |
| Temperature Range | -60 °C—340 °C (350 °C) |
| Dimensions | 12 m x 200 µm x 0.33 µm |
| Column lock | Unlocked |
| In | Front SS Inlet He |
| Out | MSD |
| (Initial) | 80 °C |
| Pressure | 9.1608 psi |
| Flow | 1 mL/min |
| Average Velocity | 58.448 cm/sec |
| Holdup Time | 0.34218 min |
| Control Mode | Constant Flow |
| | |
| Column #2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 0 psi |
| Post Run | 0 psi |
| | |
| Column Information | Agilent 19091Z-211 |
| HP-1 | |
| Temperature Range | -60 °C—325 °C (350 °C) |
| Dimensions | 15 m x 320 µm x 1 µm |
| Column lock | Unlocked |
| In | Back SS Inlet He |
| Out | Front Detector FID |
| (Initial) | 80 °C |
| Pressure | 0 psi |
| Flow | 0 mL/min |
| Average Velocity | 0 cm/sec |
| Holdup Time | ∞ min |
| Control Mode | Constant Pressure |
| | |
| Column Outlet Pressure | 0 psi |
| | |
| Front Detector FID | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Makeup | N2 |
| Heater | Off |
| H2 Flow | Off |
| Air Flow | Off |
| Makeup Flow | Off |
| Carrier Gas Flow Correction | Constant Makeup and Fuel Flow |
| Flame | Off |
| | |
| Aux EPC 1,2,3 | |
| Aux EPC 1 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| | |
| Aux EPC 2 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |

| | |
|---|---|
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Aux EPC 3 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

Signals
Signal #1: Test Plot

| | |
|---|---|
| Description | Test Plot |
| Save | Off |
| Data Rate | 50 Hz |
| Dual Injection Assignment | Front Sample |

Signal #2:

| | |
|---|---|
| Description | None |

Signal #3:

| | |
|---|---|
| Description | None |

Signal #4:

| | |
|---|---|
| Description | None |

TUNE PARAMETERS for SN: US1439L407

Trace Ion Detection is OFF.

| | | | |
|---|---|---|---|
| 34.593 | : | EMISSION | |
| 70.007 | : | ENERGY | |
| 34.899 | : | REPELLER | |
| 90.331 | : | IONFOCUS | |
| 20.181 | : | ENTRANCE_LENS | |
| 963.560 | : | EMVOLTS | |
| | | 1151.3 | : Actual EMV |
| | | 2.60 | : GAIN FACTOR |
| 1322.000 | : | AMUGAIN | |
| 123.750 | : | AMUOFFSET | |
| 1.000 | : | FILAMENT | |
| 0.000 | : | DCPOLARITY | |
| 15.312 | : | ENTLENSOFFSET | |
| 0.000 | : | Ion_Body | |
| 0.000 | : | EXTLENS | |
| -468.000 | : | MASSGAIN | |
| -36.000 | : | MASSOFFSET | |

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

## DATA ANALYSIS PARAMETERS

Method Name: C:\MassHunter\GCMS\1\methods\DRUG1.M

### Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

### Qualitative Report Settings

Peak Location of Unknown: Apex

| Library to Search | Minimum Quality |
|---|---|
| DEMO.L | 0 |

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

### Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

Calibration Last Updated:

Reference Window: 10.00 Percent
Non-Reference Window: 5.00 Percent
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Mon Jul 17 11:33:00 2023

# Single Quadrupole Acquisition Method - MS Parameters Report

| | |
|---|---|
| **Method file** | C:\MassHunter\GCMS\1\methods\DRUG1.M |
| **Tune file** | ATUNE.U |
| **Ion source** | EI |
| **Source temperature (°C)** | 230 |
| **Quad temperature (°C)** | 150 |
| **Fixed Electron energy (eV)** | 70.0 |
| **Acquisition Type** | Scan |
| **Stop time (min)** | 10.00 |
| **Solvent delay (min)** | 2.50 |
| **Trace Ion Detection** | False |
| **Gain Factor** | 2.6 |
| **EM Saver** | False |
| **EM Saver Limit** | N/A |

**Scan Time Segments**

| Time | Start Mass | End Mass | Threshold | Scan Speed |
|---|---|---|---|---|
| 2.50 | 40 | 550 | 150 | 1,562 [N=2] |

**Timed Events**

| Time | Type of Event | Parameter |
|---|---|---|

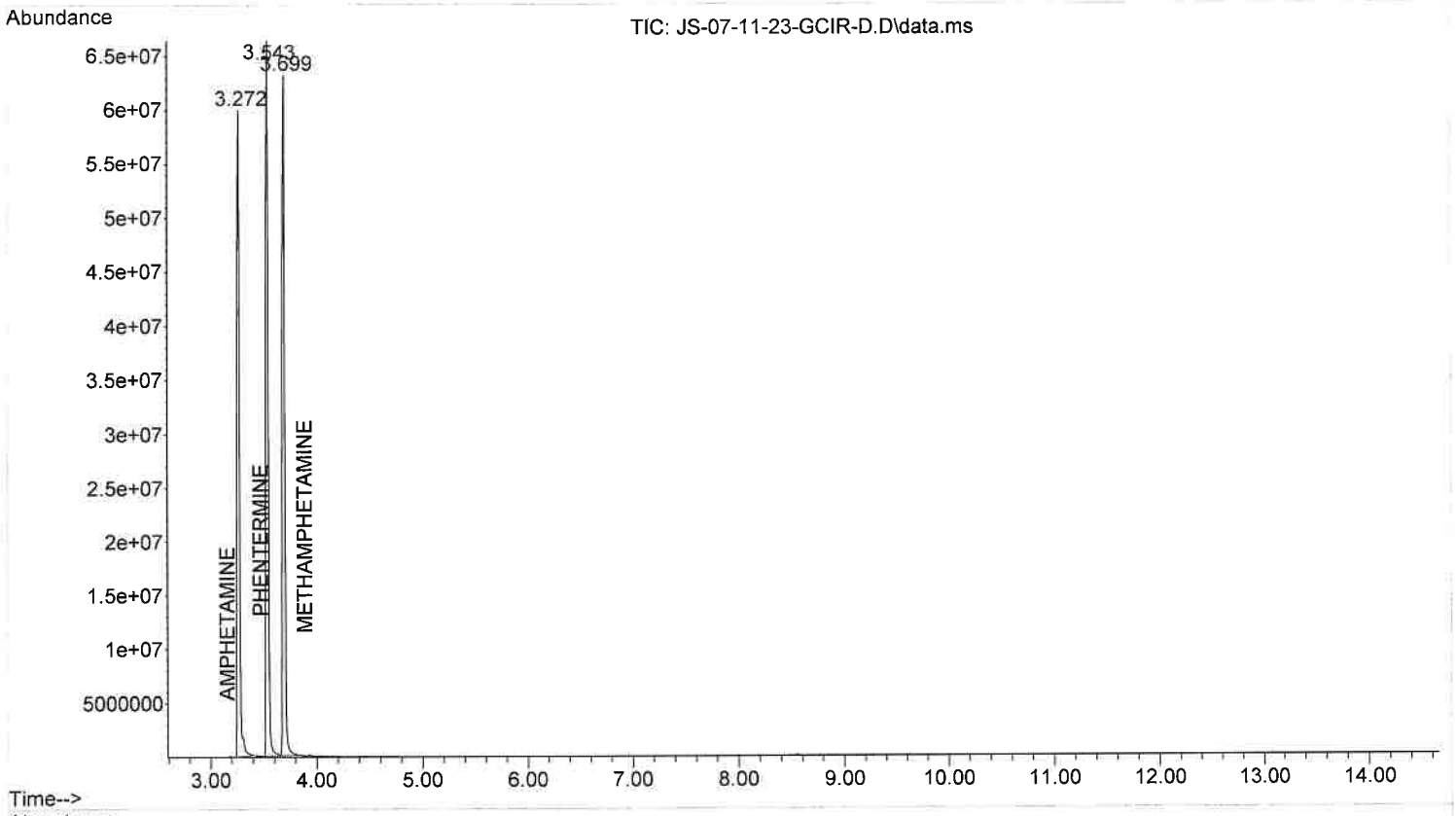
**Real-Time Plots**

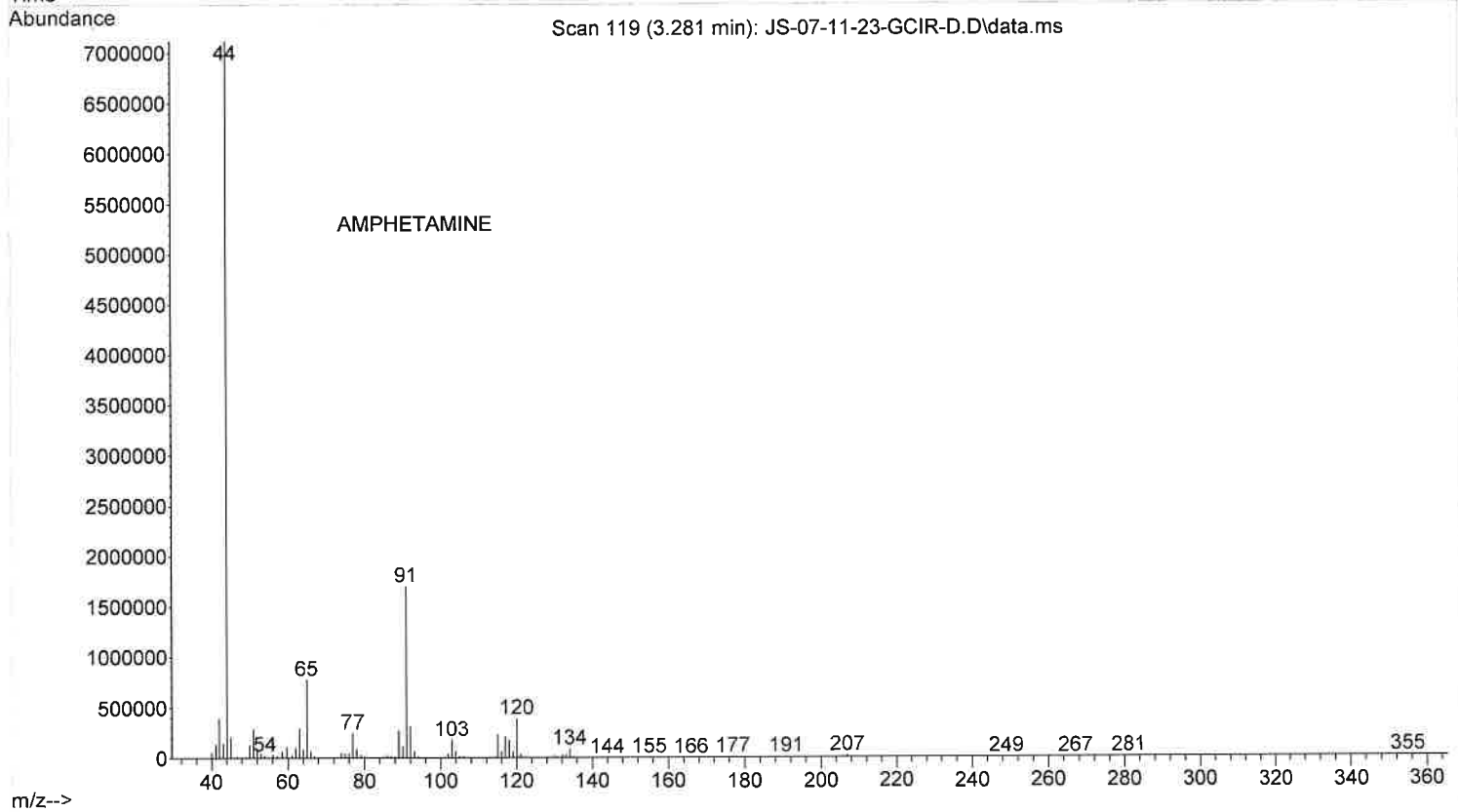
| Type of Plot | Label | Low Mass | High Mass |
|---|---|---|---|
| Total Ion | N/A | N/A | N/A |
| Spectrum | N/A | N/A | N/A |
| Extracted Ion | Scan 1-1 | 50 | 550 |
| Extracted Ion | Scan 1-2 | 40 | 550 |

**Self-Cleaning Ion Source Parameters**

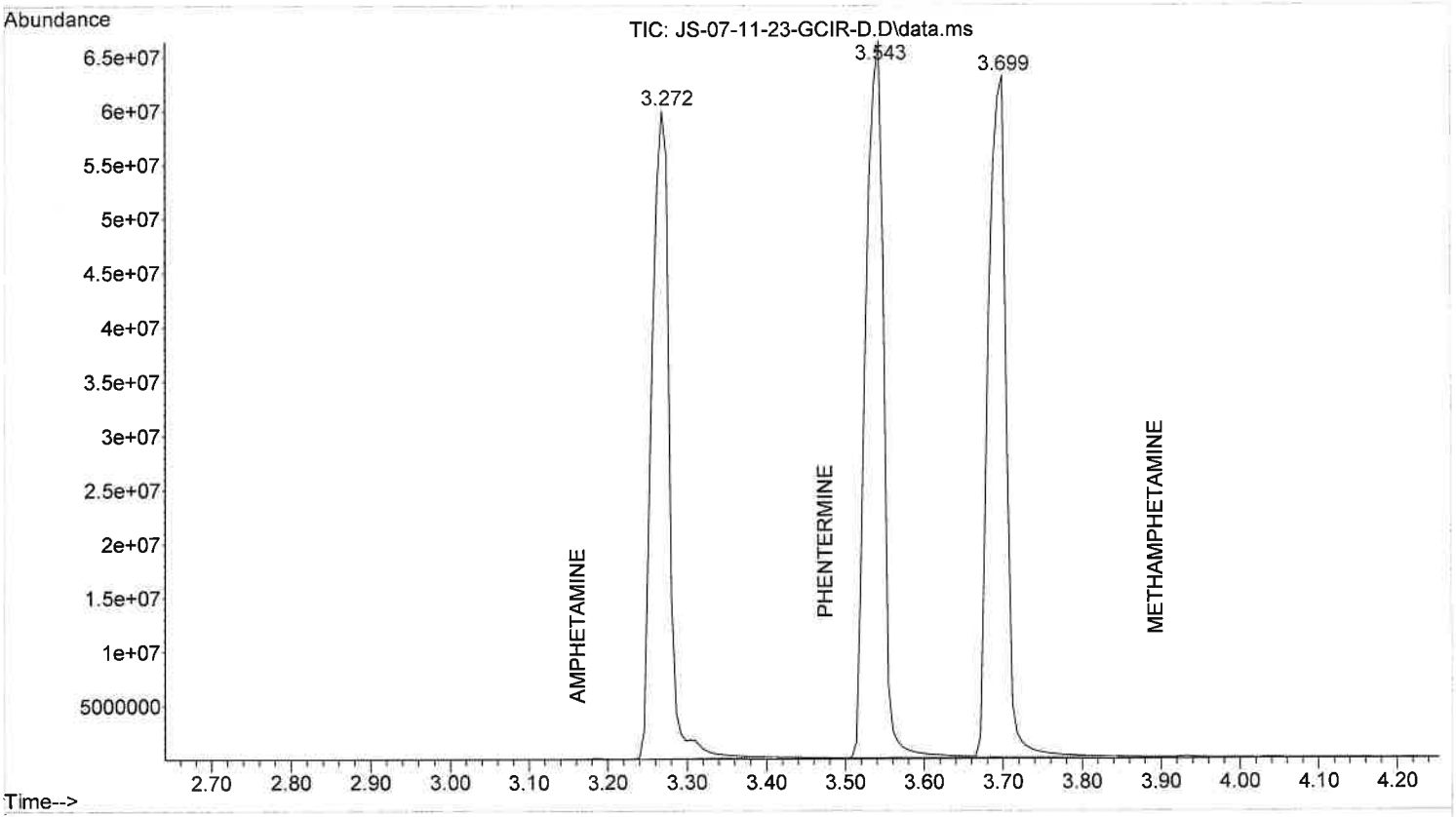
| | |
|---|---|
| Mode | No Cleaning |

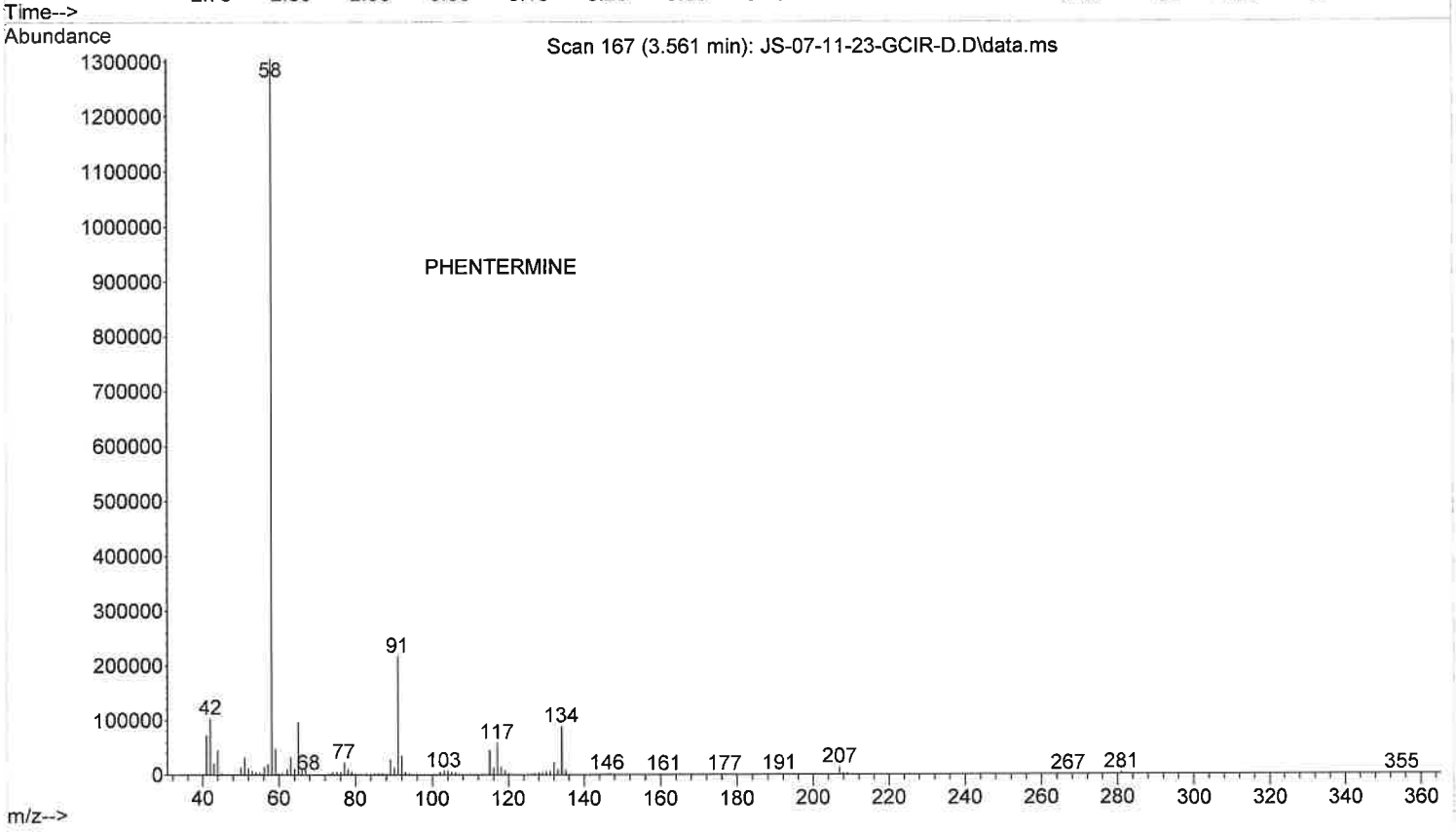
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-11-23\JS-07-11-23-GCIR-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 11 Jul 2023 18:28 using AcqMethod DRUG1.M
Sample Name: GCIR STD MIX
Misc Info : CHCl3



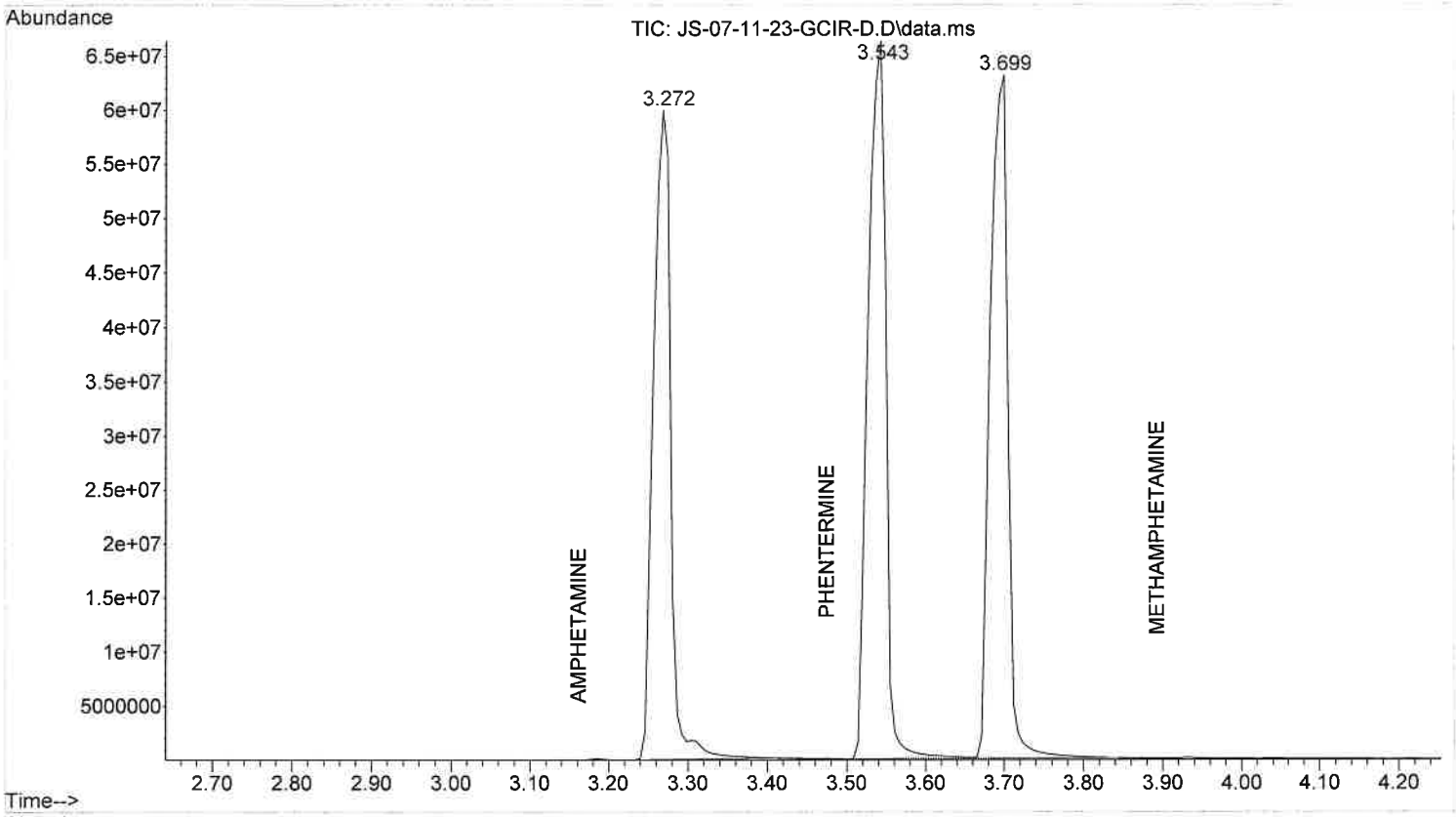



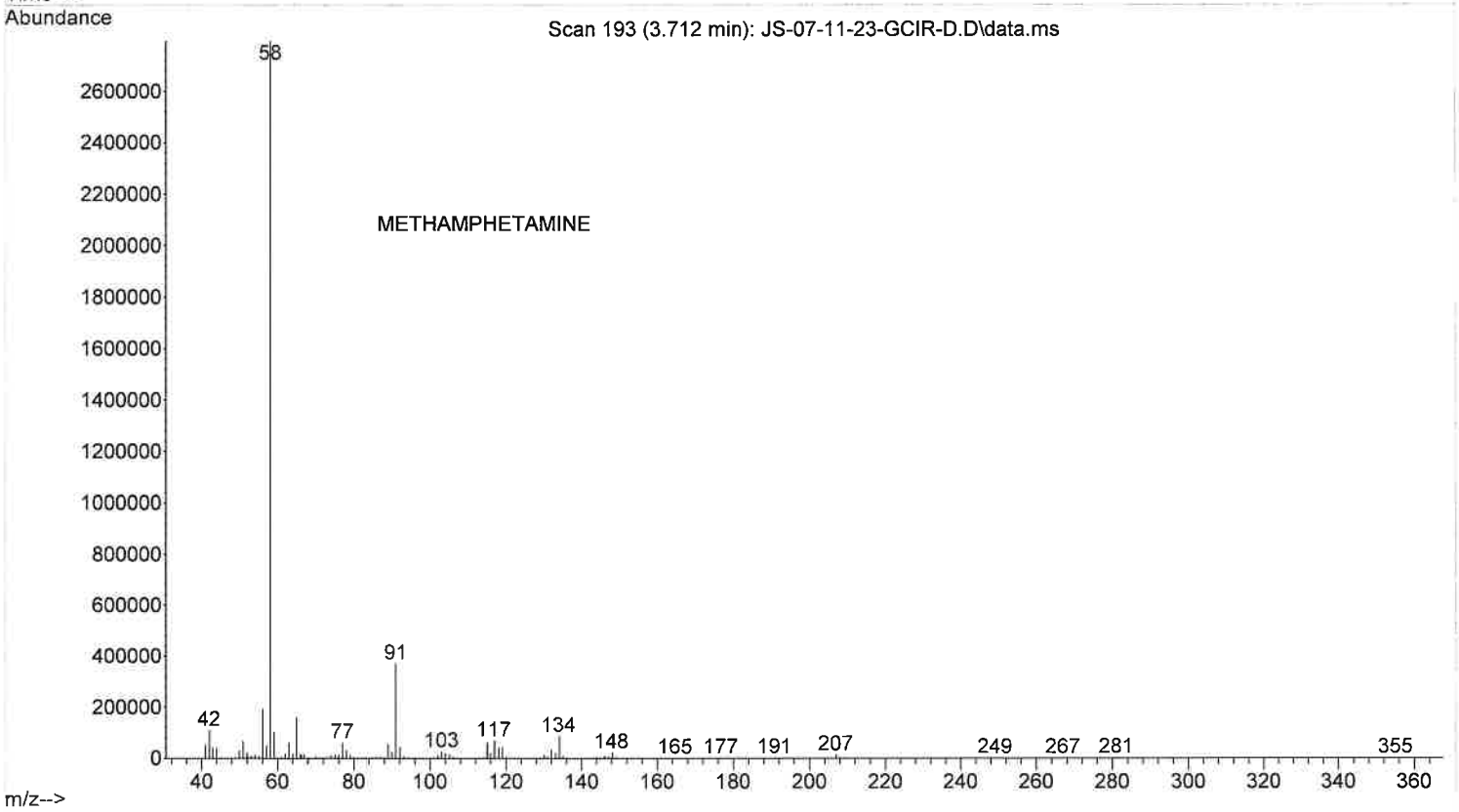
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-11-23\JS-07-11-23-GCIR-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 11 Jul 2023 18:28 using AcqMethod DRUG1.M
Sample Name: GCIR STD MIX
Misc Info : CHCl3



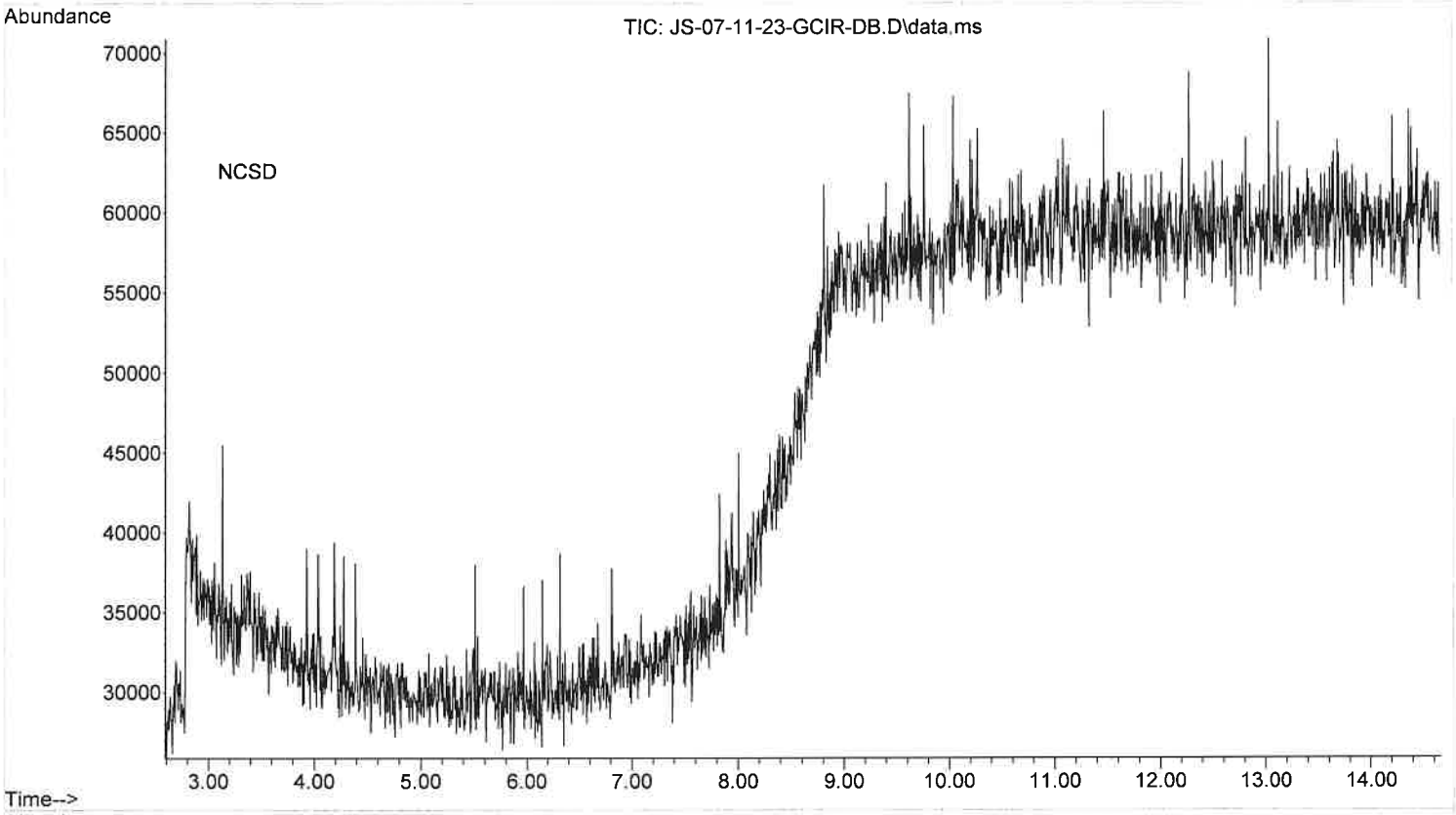



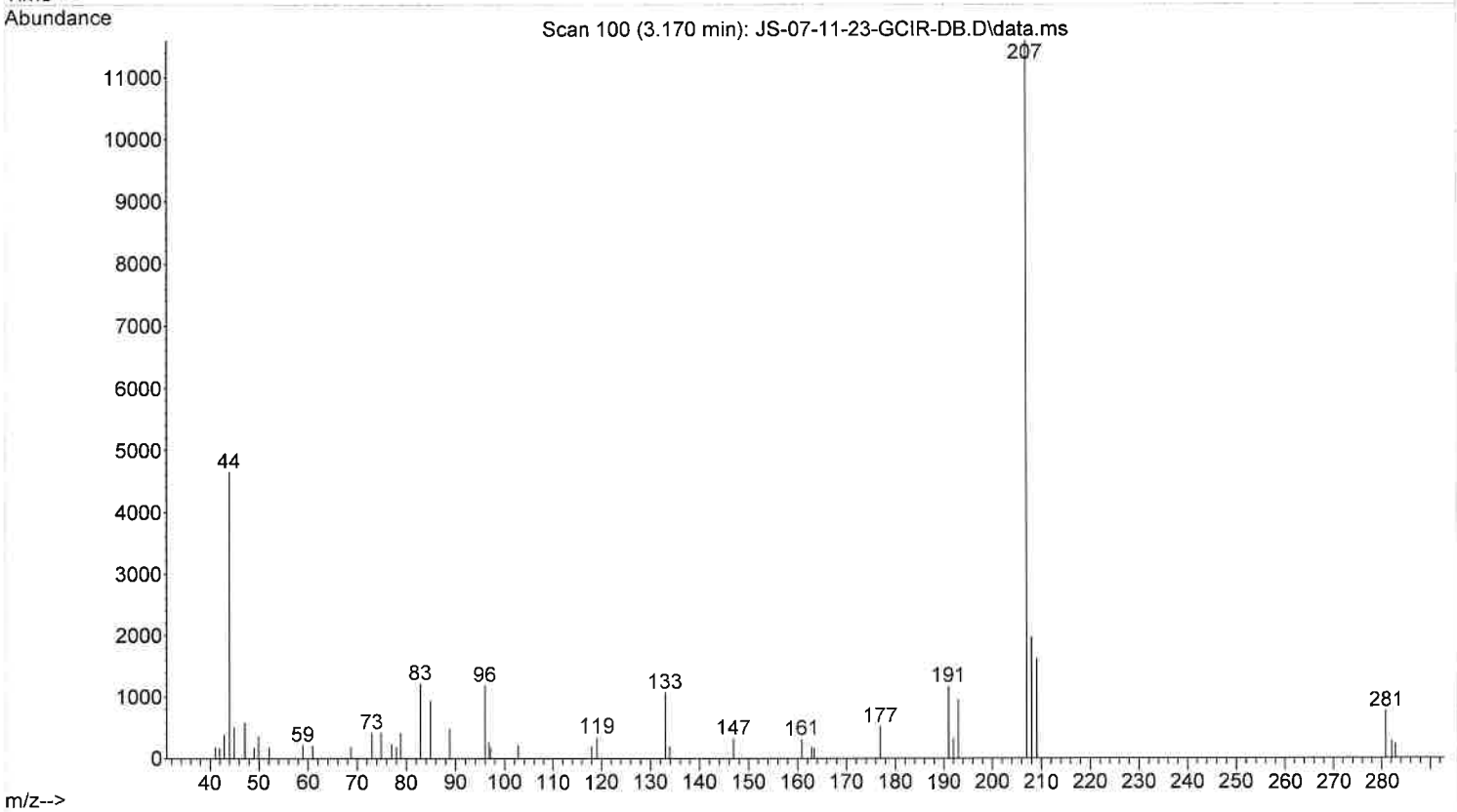
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-11-23\JS-07-11-23-GCIR-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 11 Jul 2023 18:28 using AcqMethod DRUG1.M
Sample Name: GCIR STD MIX
Misc Info : CHCl3



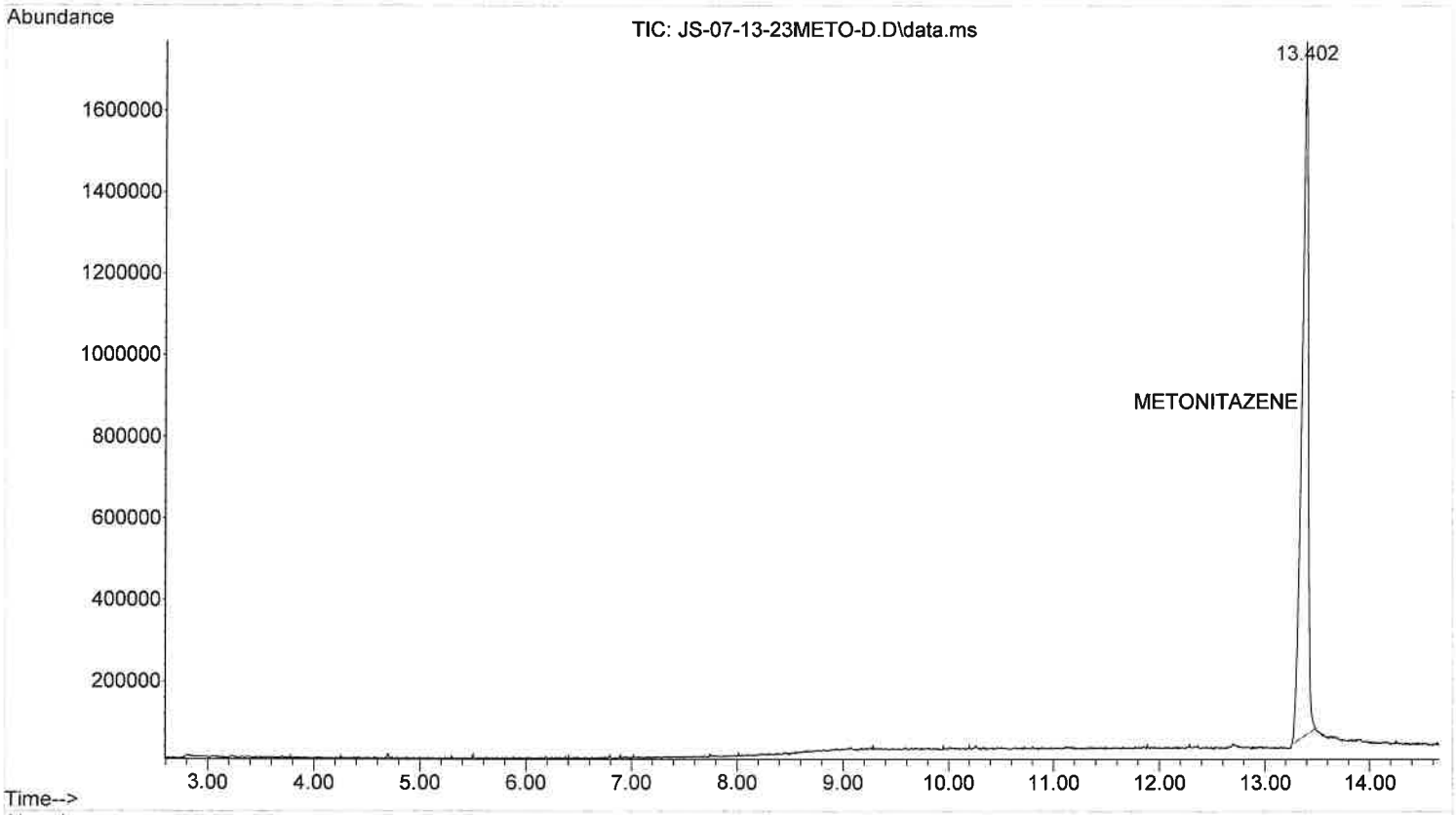



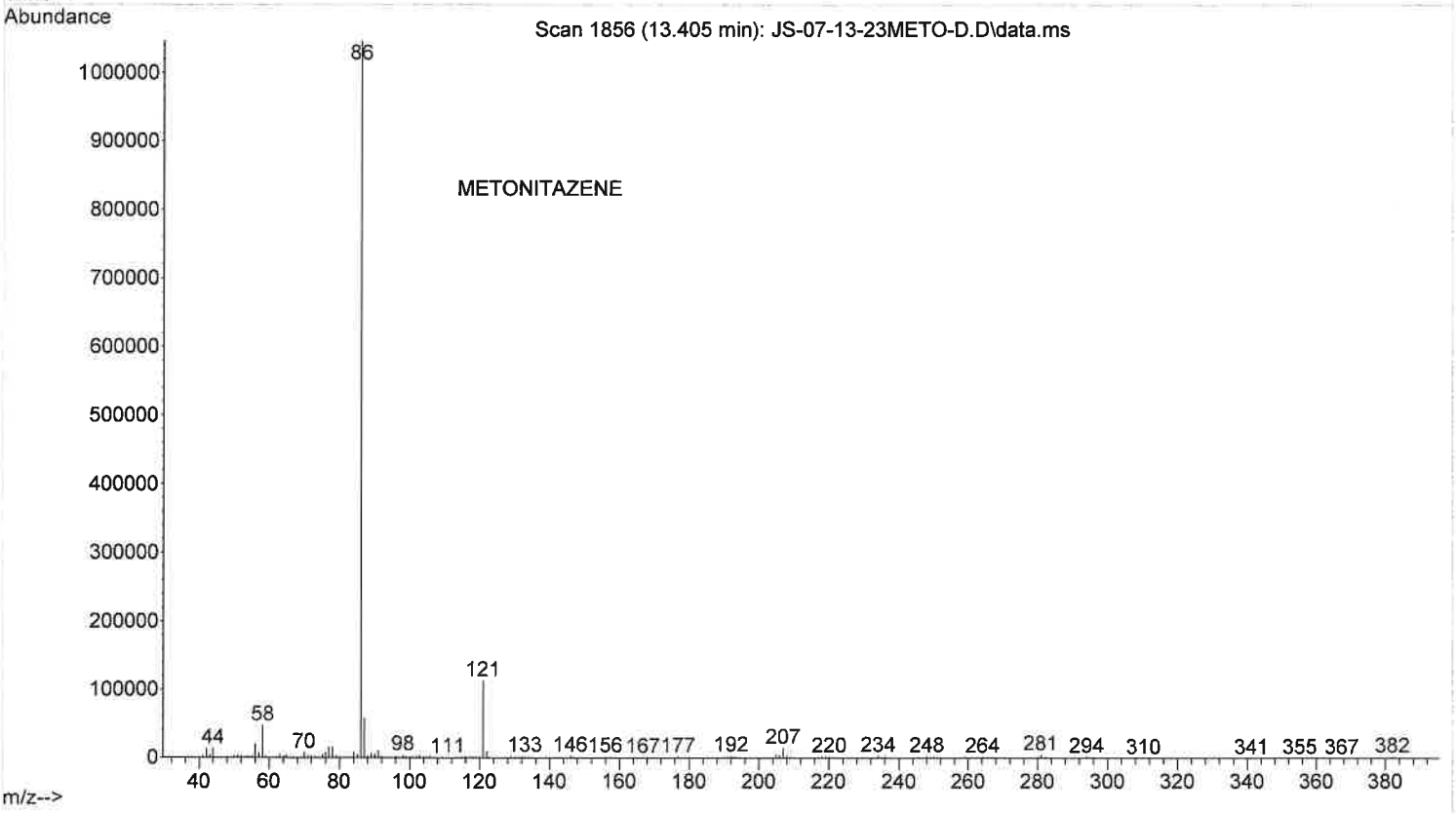
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-11-23\JS-07-11-23-GCIR-DB.D
Operator : Dobby
Instrument : Dobby
Acquired : 11 Jul 2023 18:10 using AcqMethod DRUG1.M
Sample Name: GCIR STD MIX BLANK
Misc Info : CHCl3



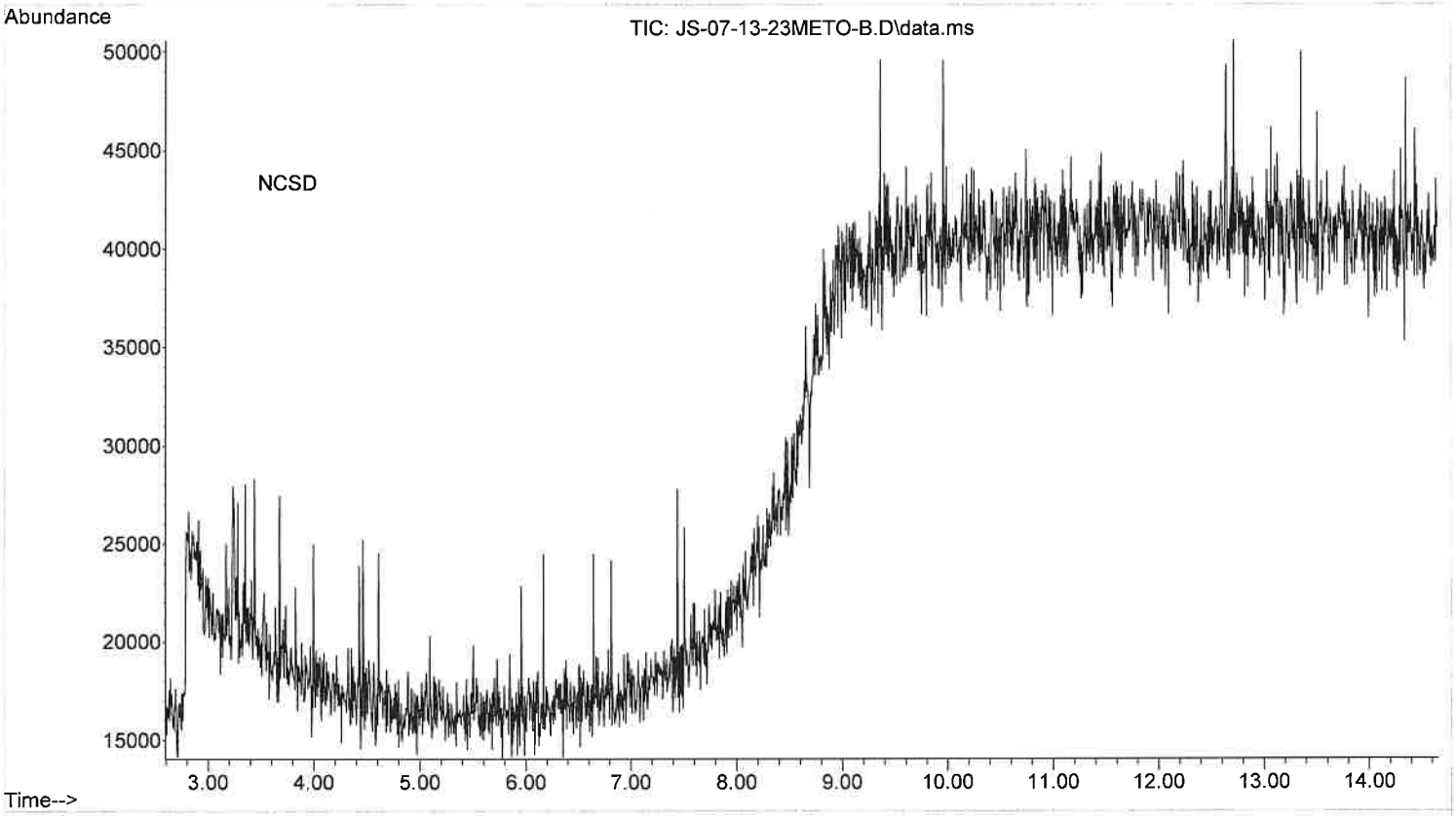



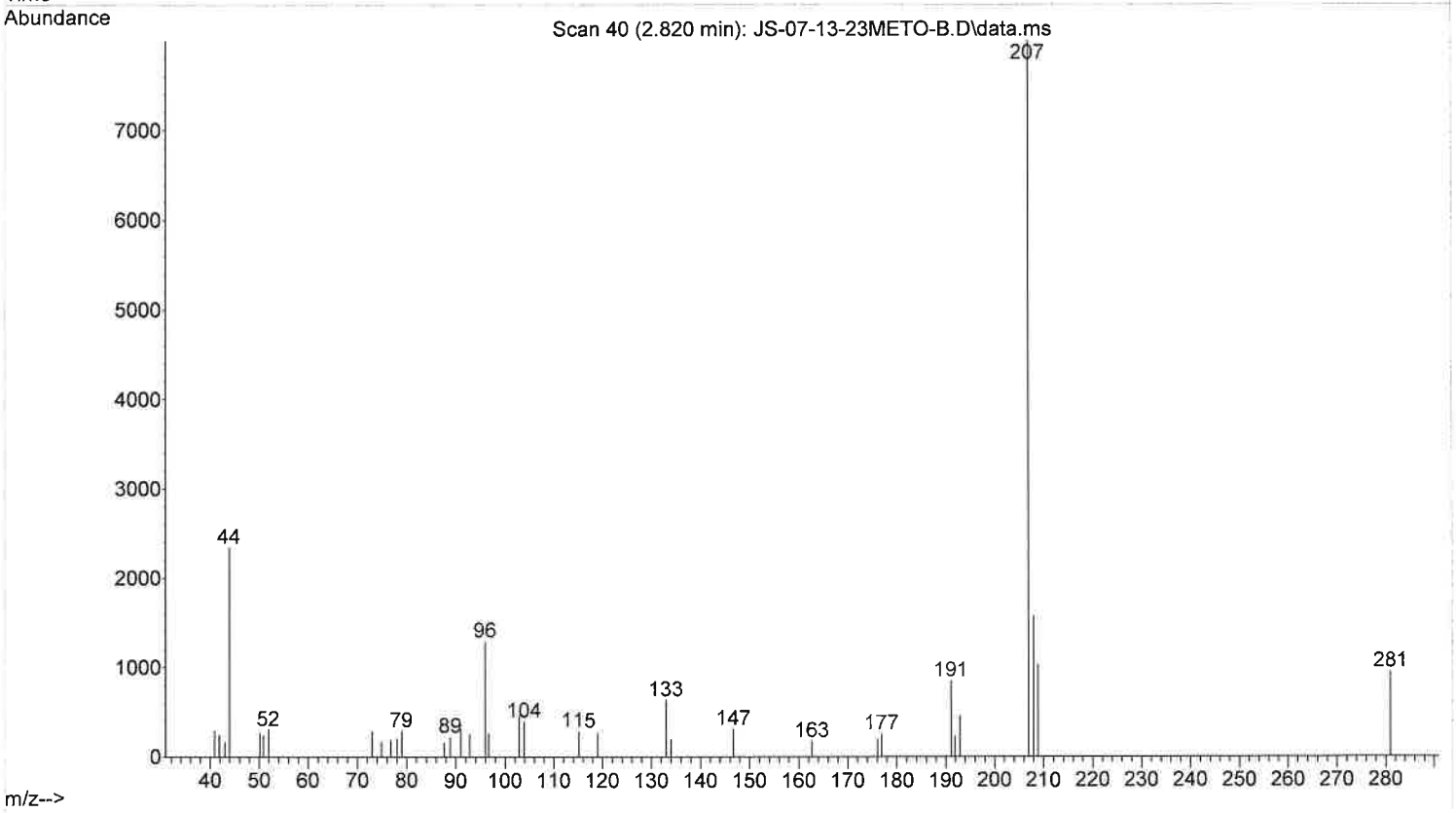
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23METO-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 14:16 using AcqMethod DRUG1.M
Sample Name: METONITAZENE STD
Misc Info : MeOH



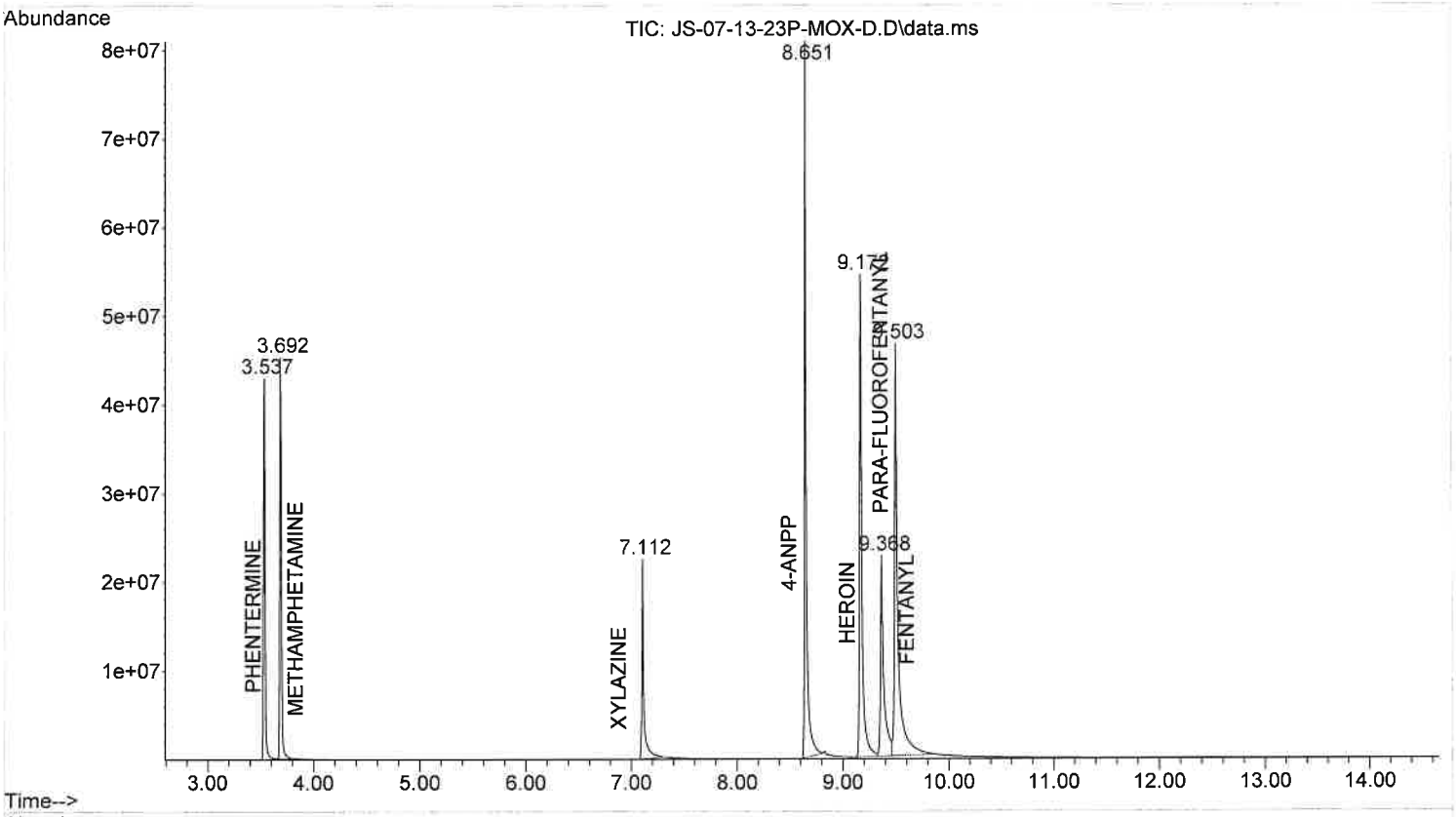



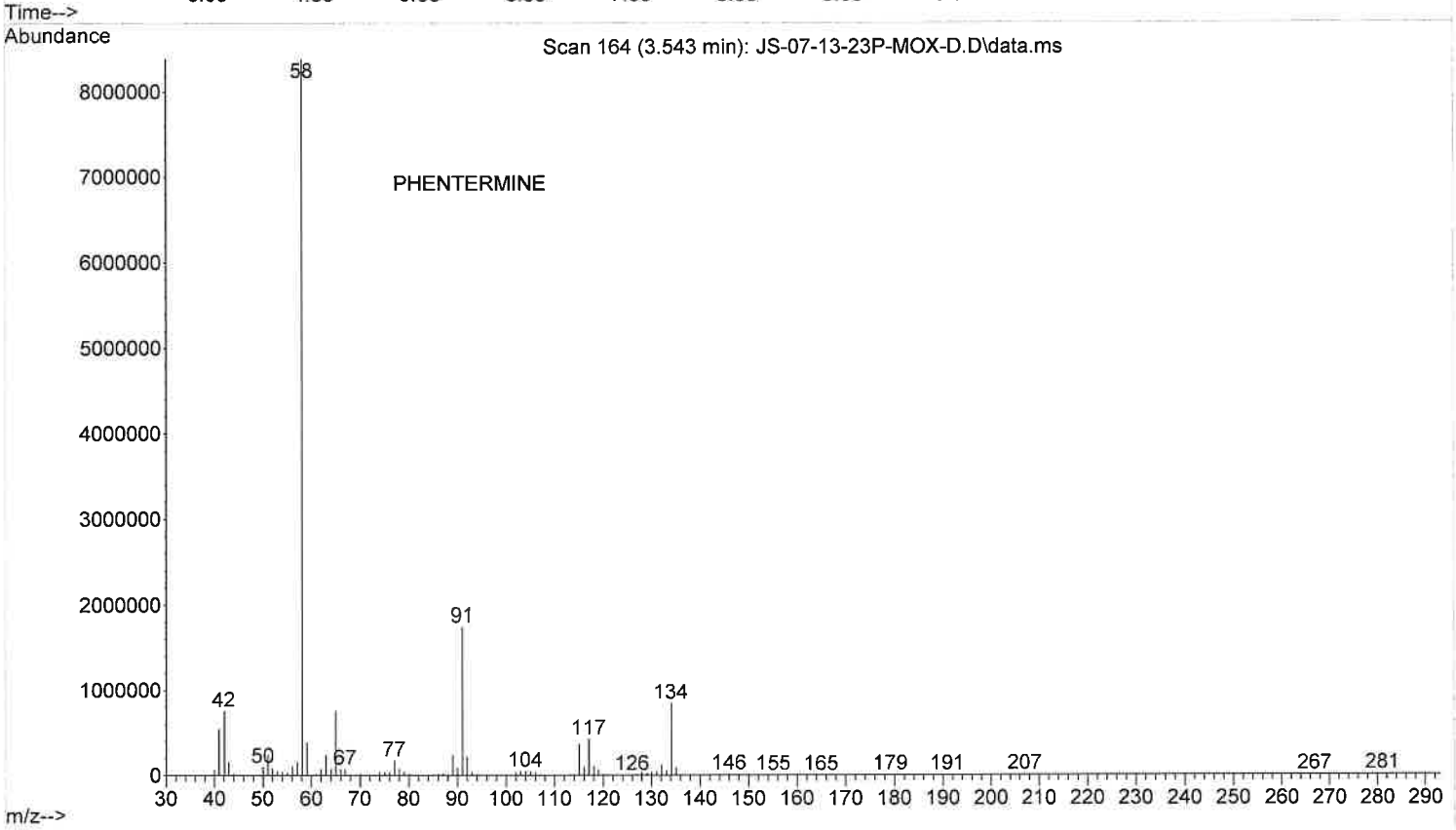
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23METO-B.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:57 using AcqMethod DRUG1.M
Sample Name: METONITAZENE STD BLANK
Misc Info : MeOH



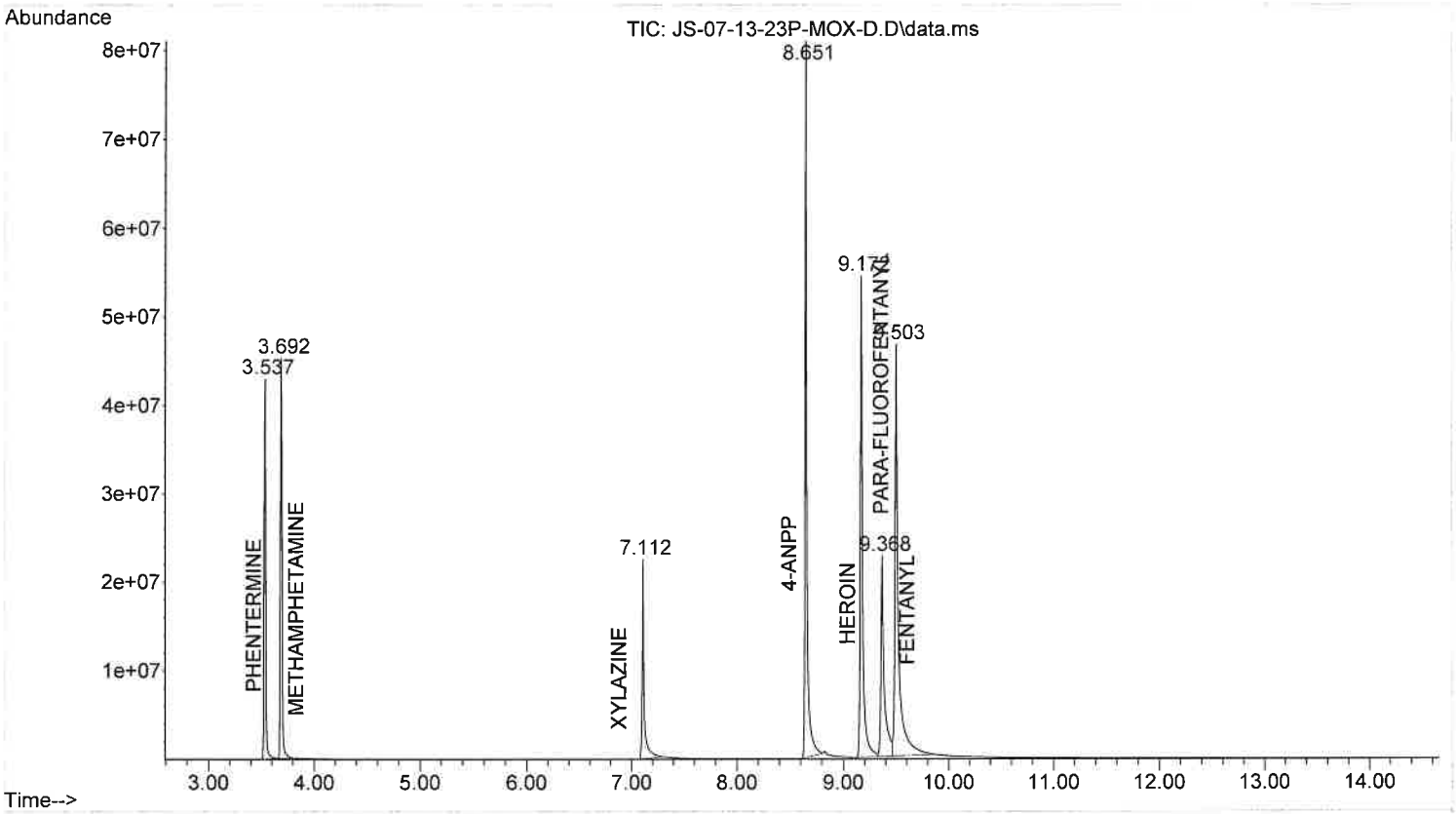



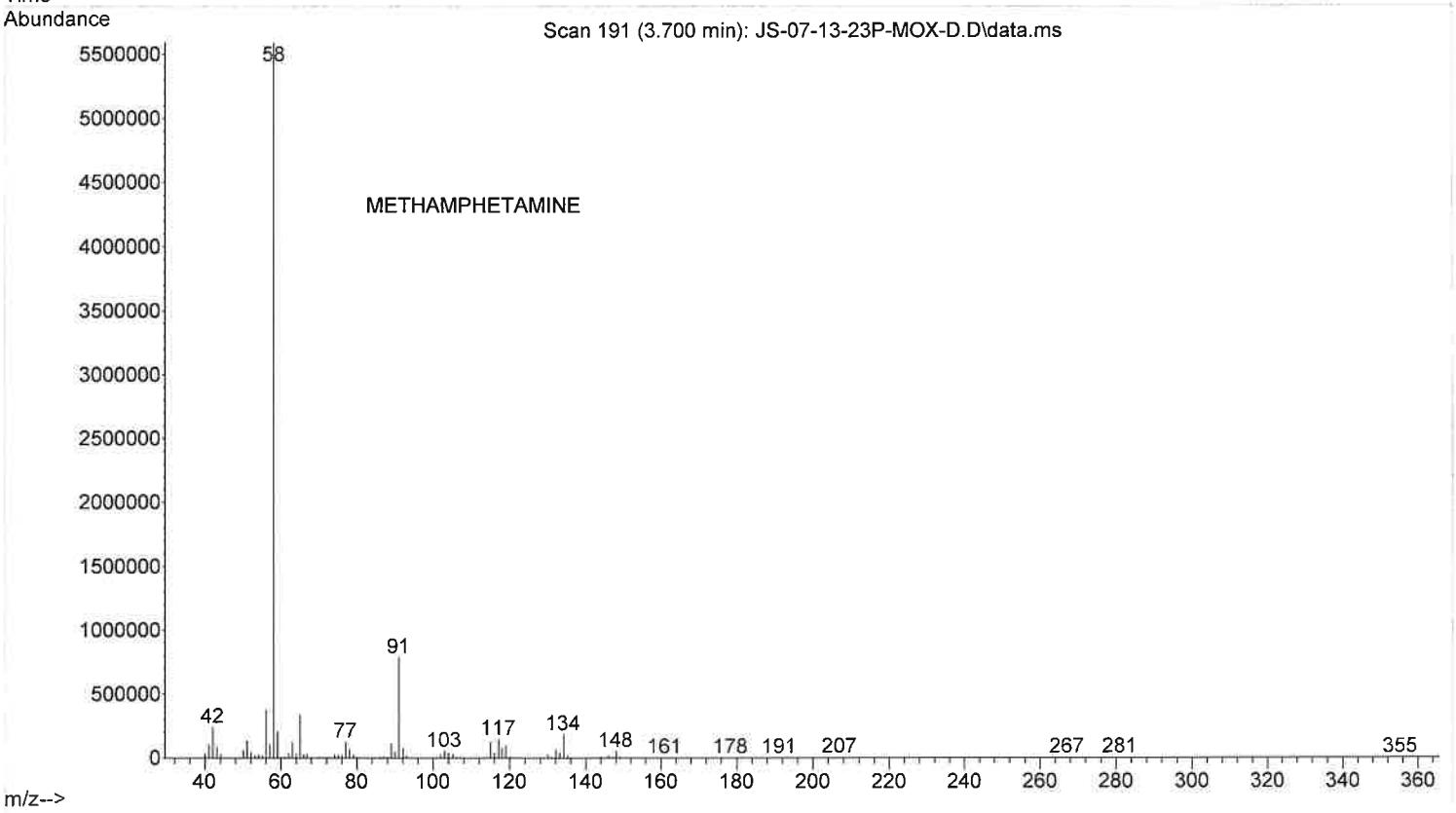
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:21 using AcqMethod DRUG1.M
Sample Name: P-MOX STD
Misc Info : CHCl3



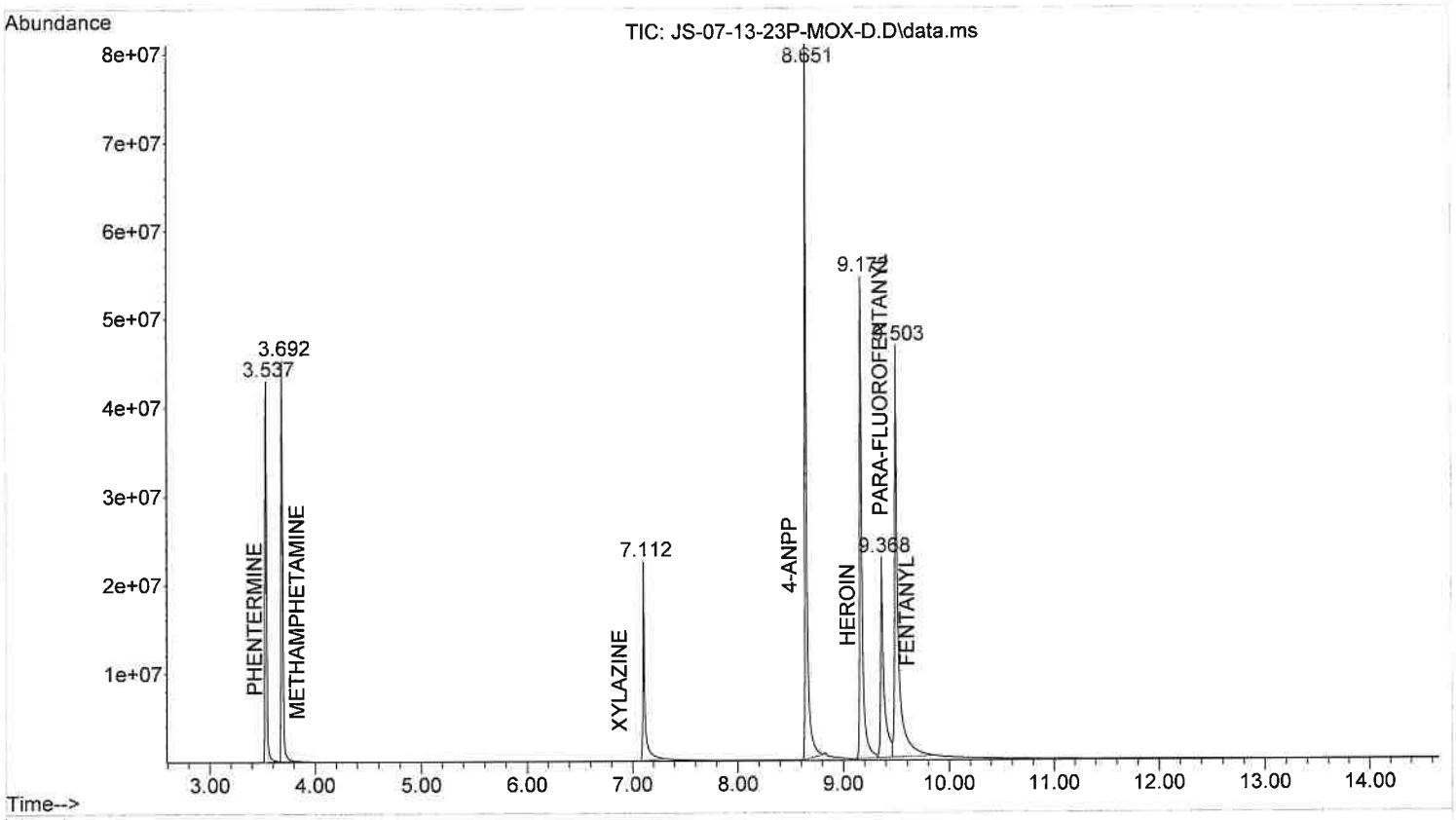



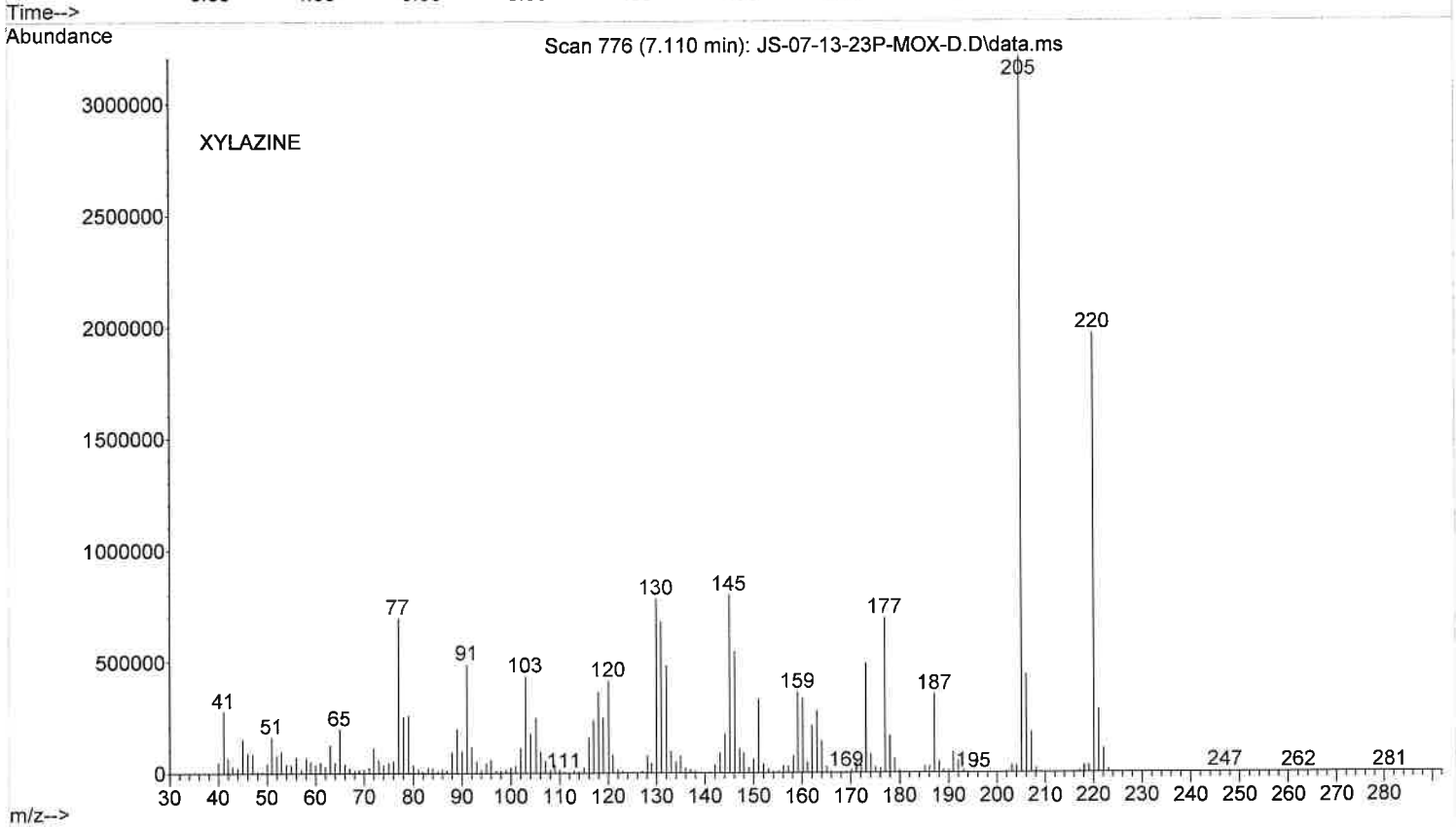
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:21 using AcqMethod DRUG1.M
Sample Name: P-MOX STD
Misc Info : CHCl3



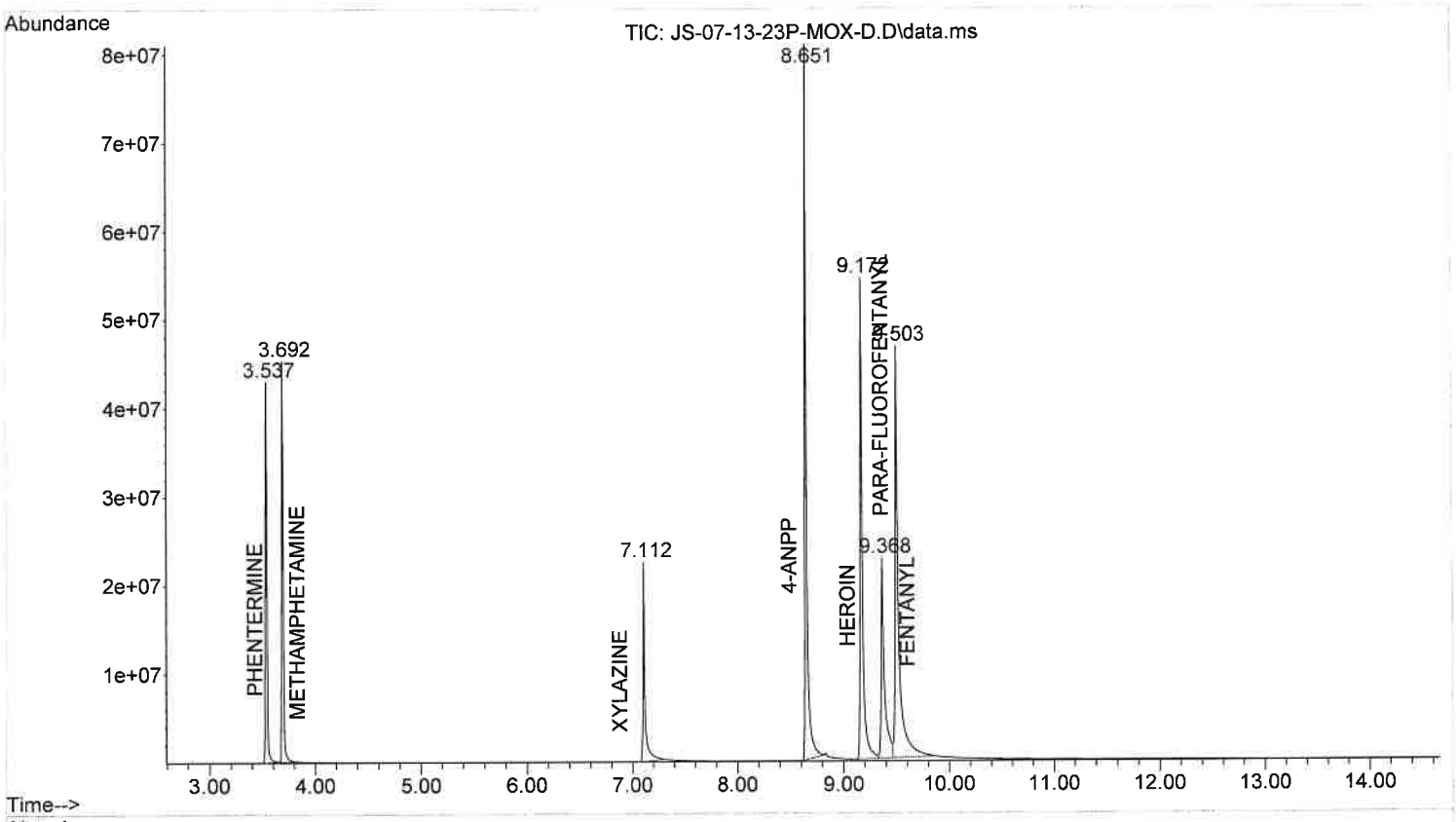



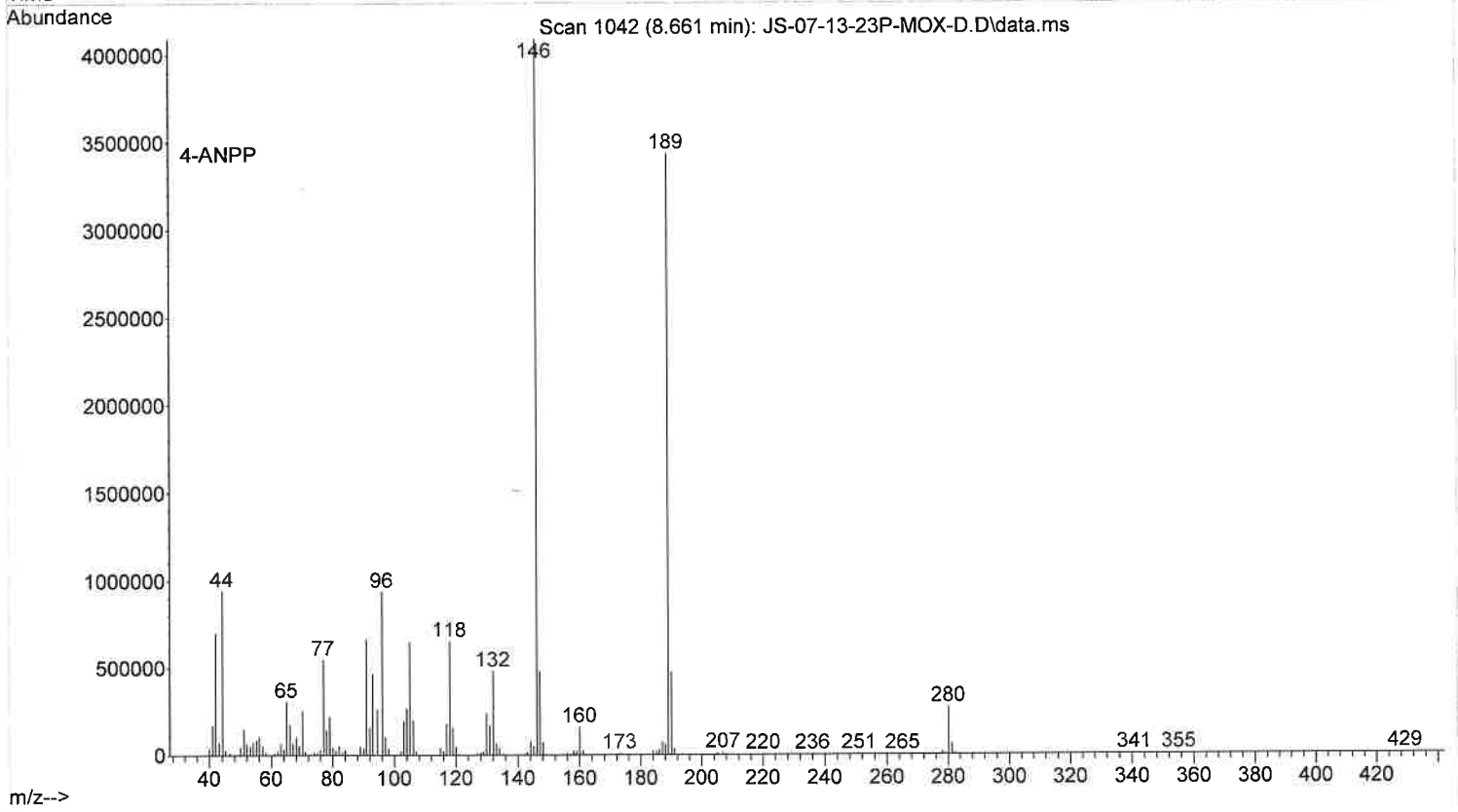
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:21 using AcqMethod DRUG1.M
Sample Name: P-MOX STD
Misc Info : CHCl3



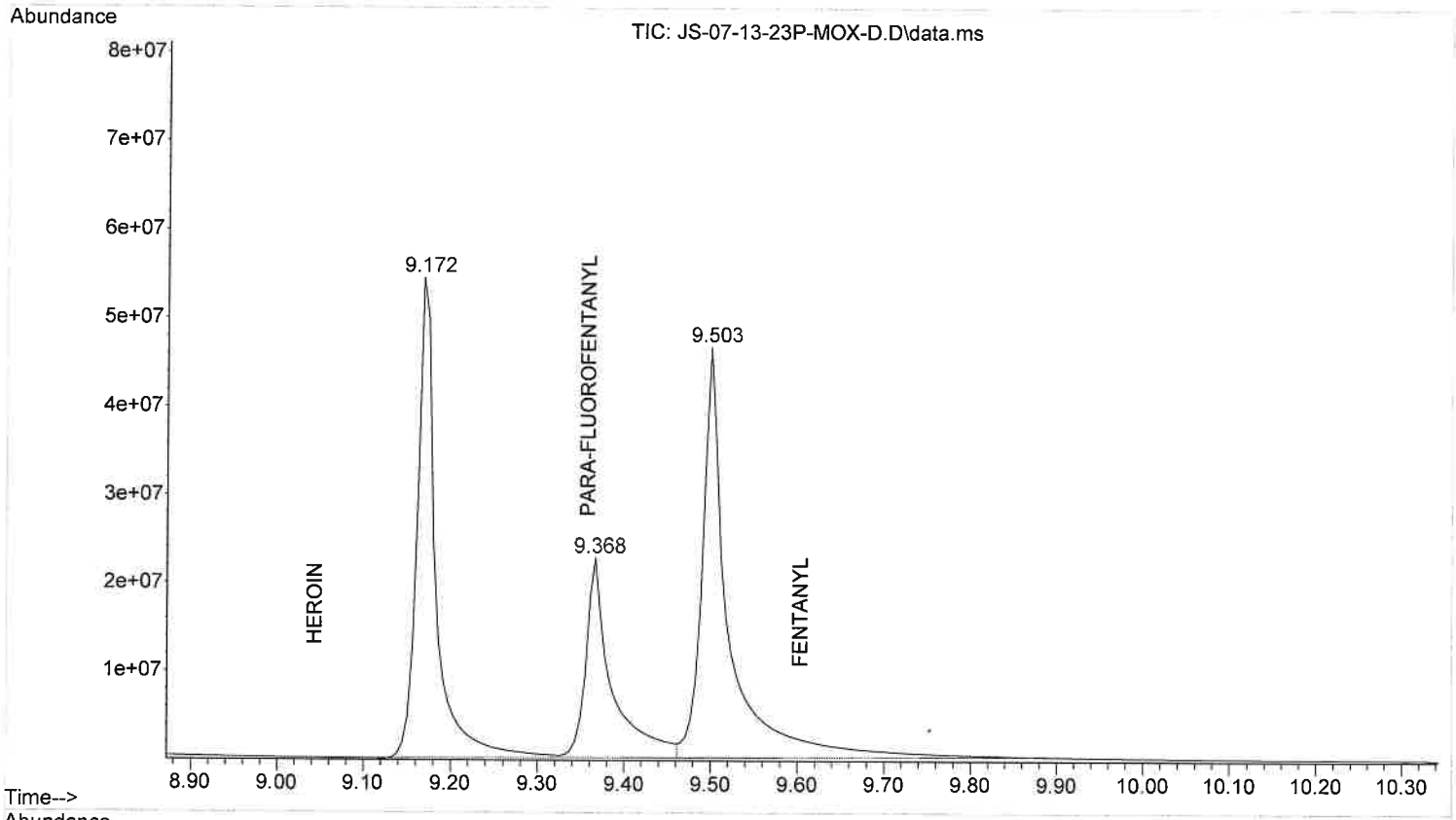



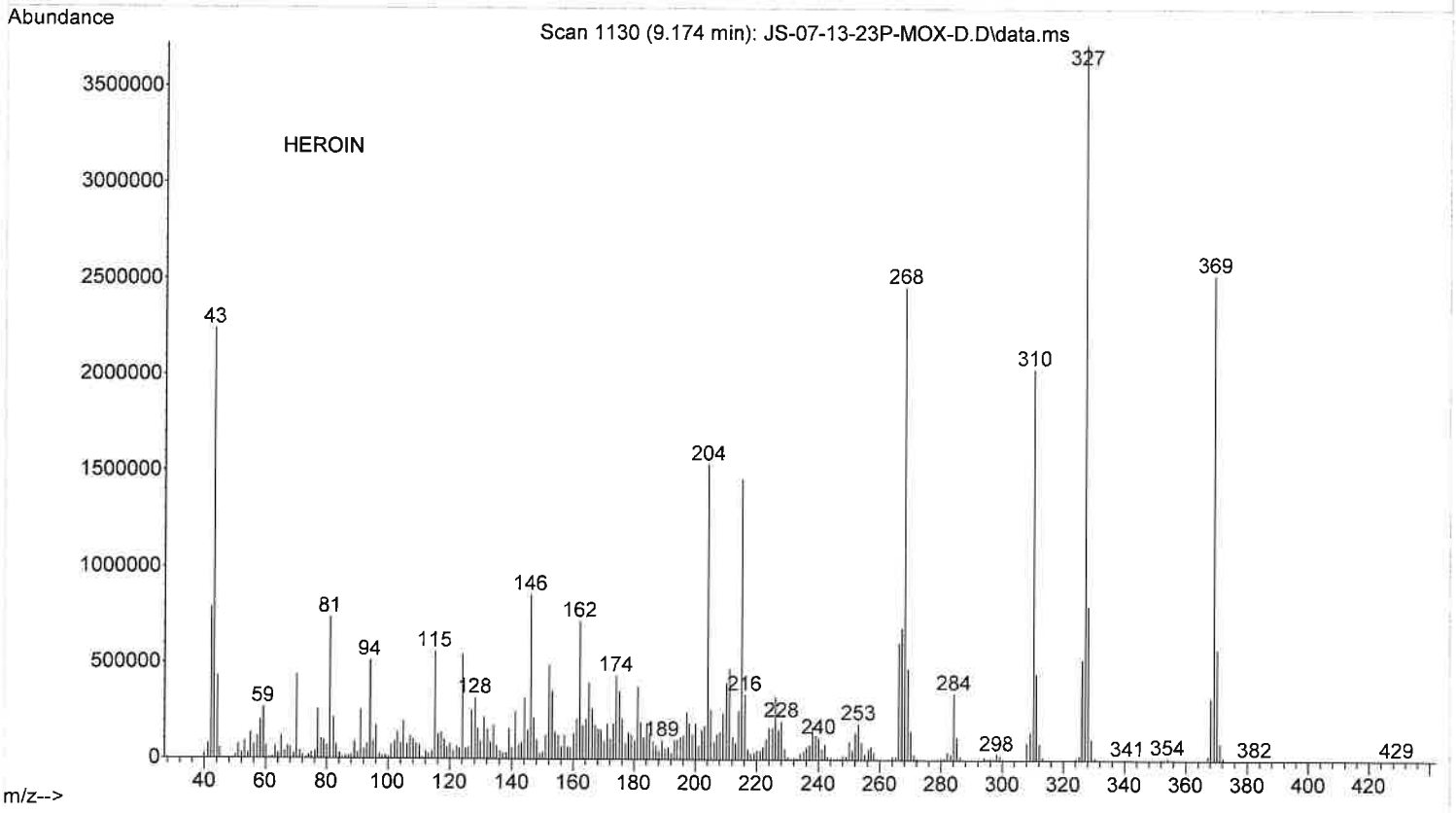
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:21 using AcqMethod DRUG1.M
Sample Name: P-MOX STD
Misc Info : CHCl3



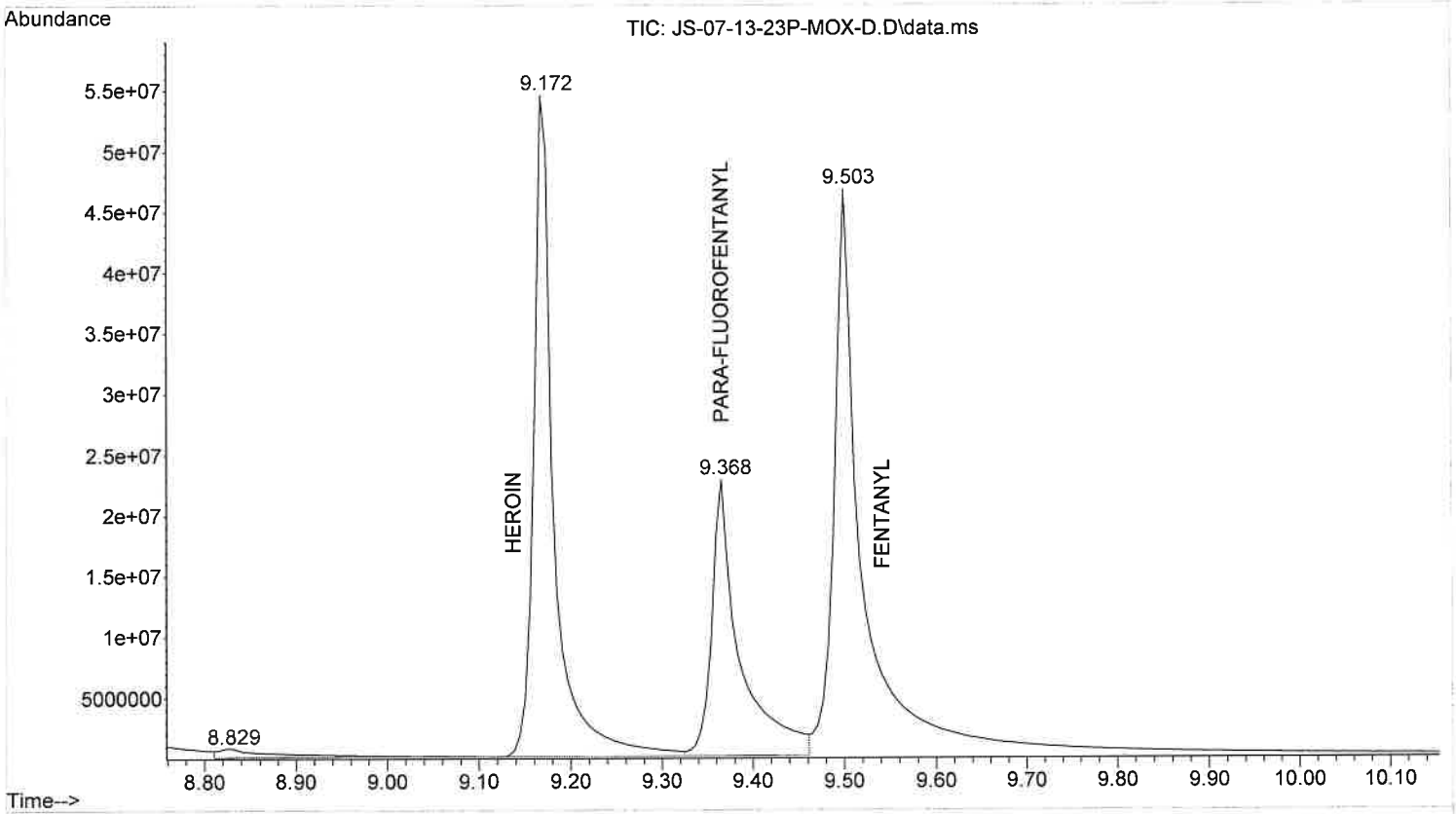



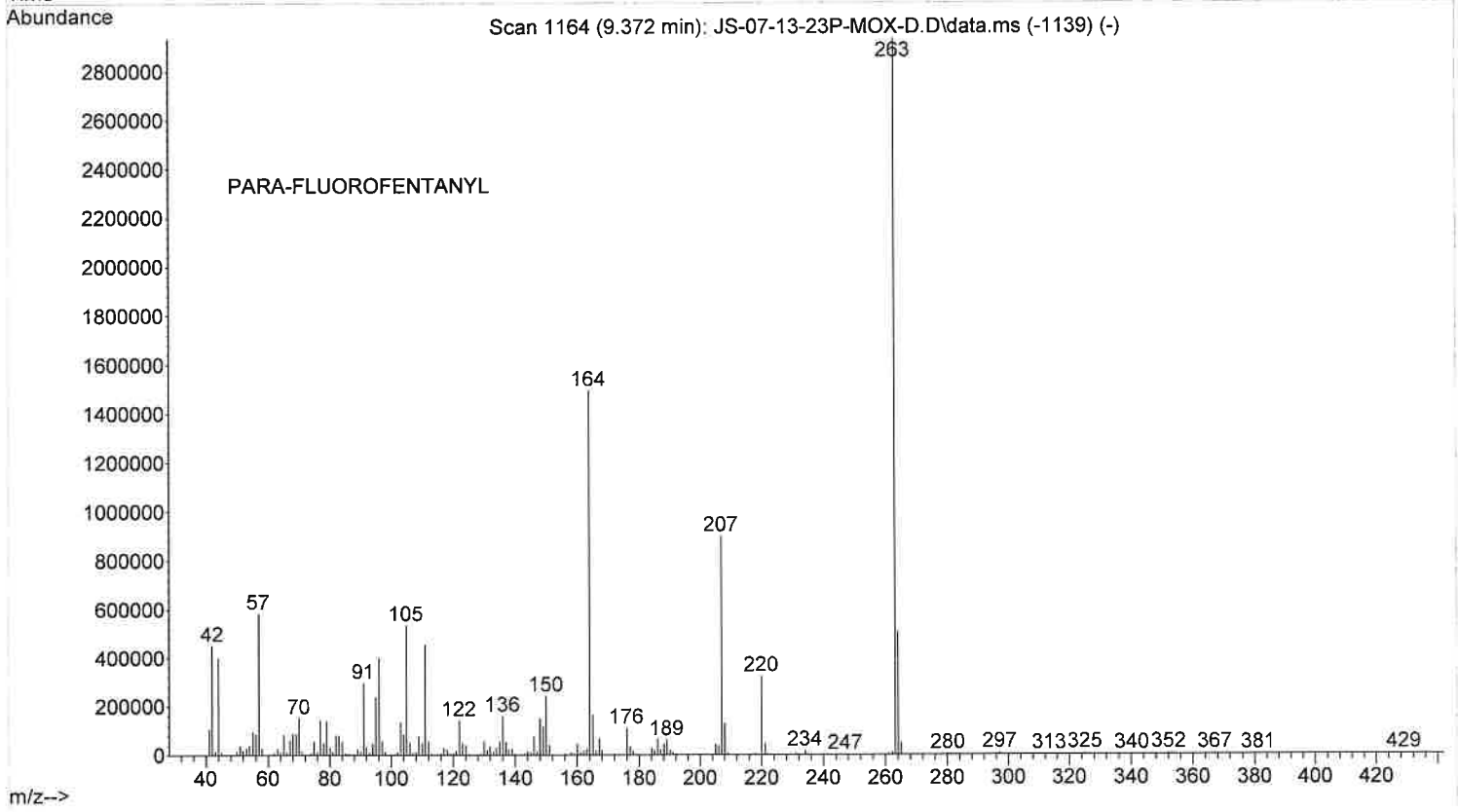
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:21 using AcqMethod DRUG1.M
Sample Name: P-MOX STD
Misc Info : CHCl3



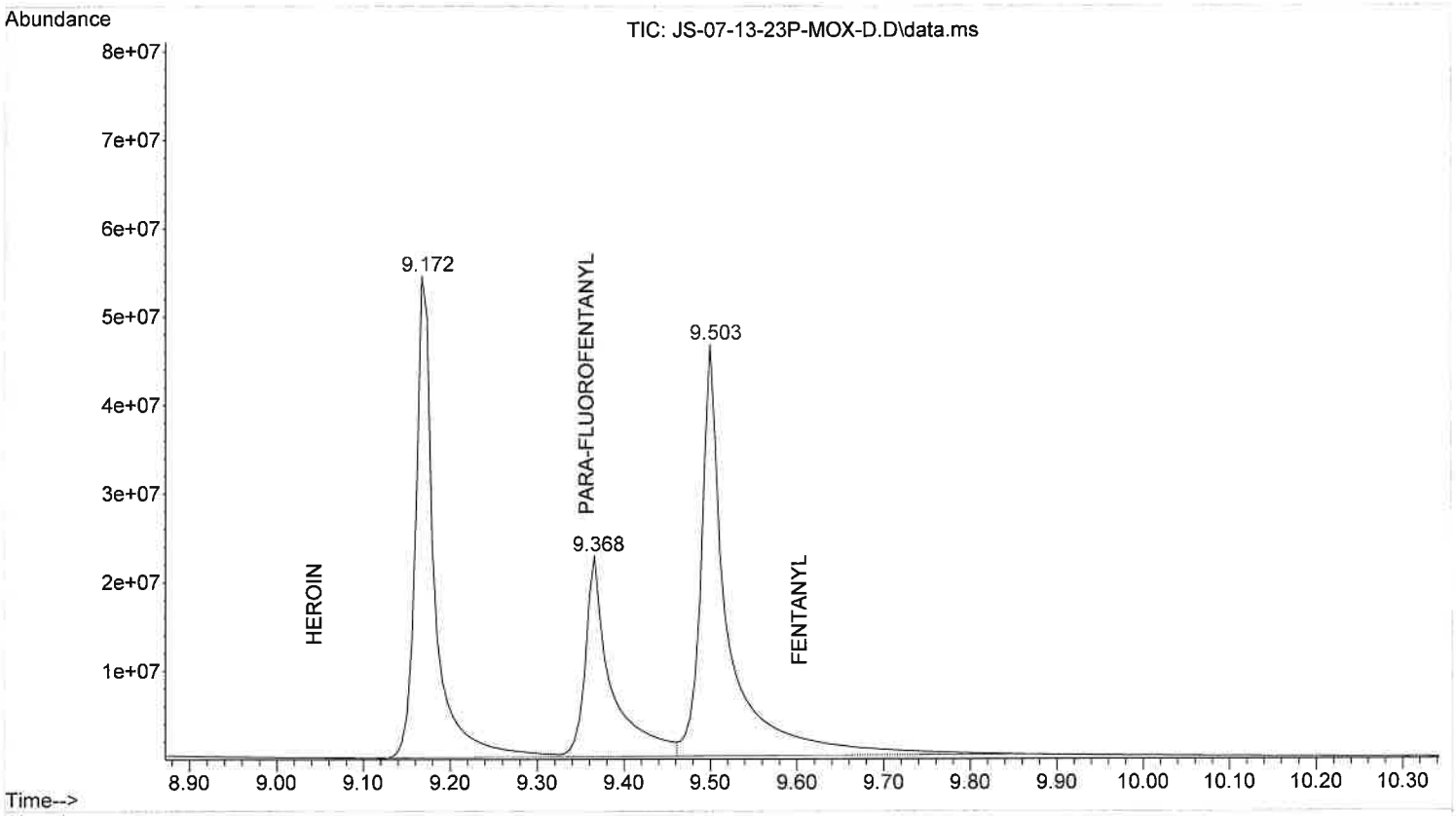



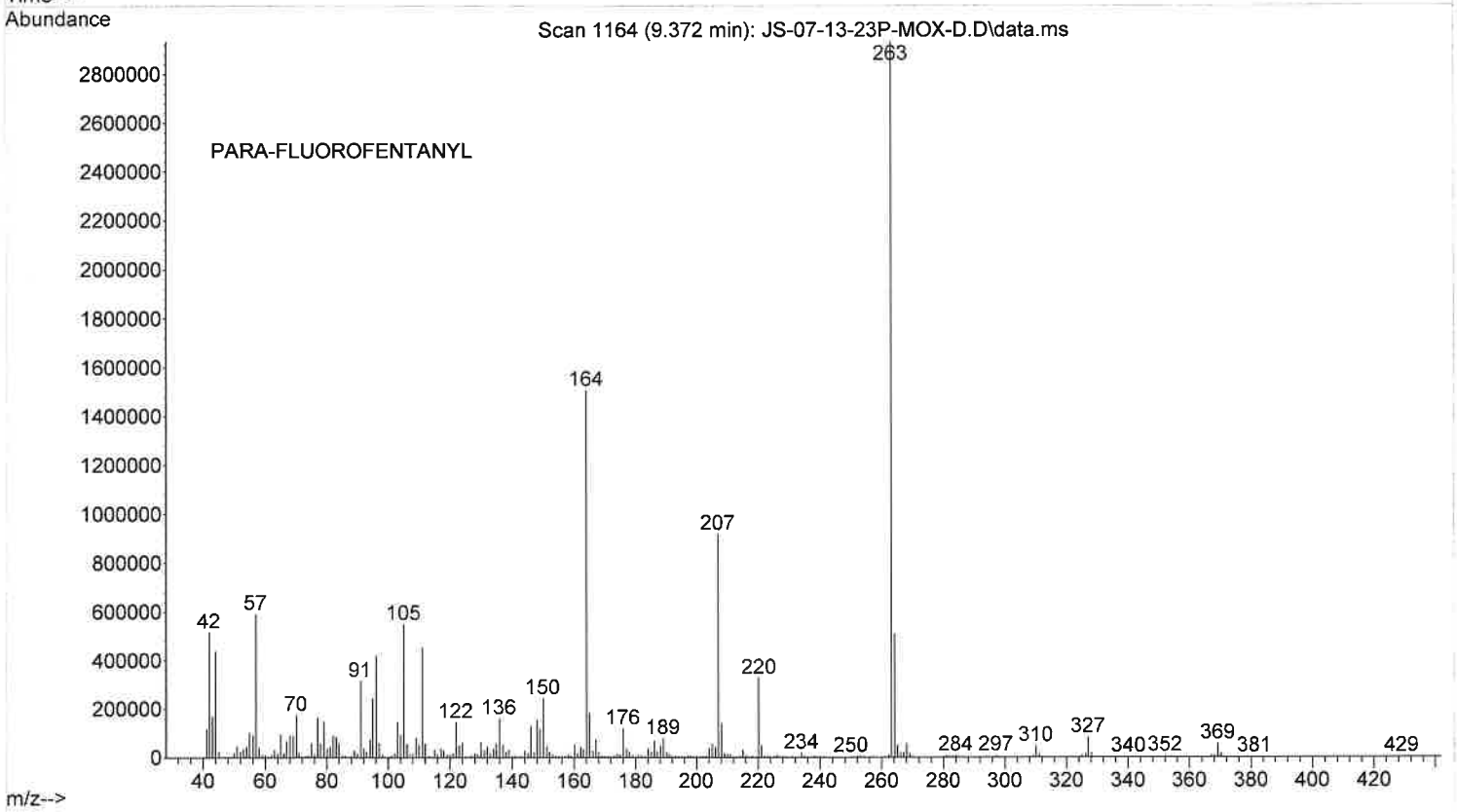
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:21 using AcqMethod DRUG1.M
Sample Name: P-MOX STD
Misc Info : CHCl3



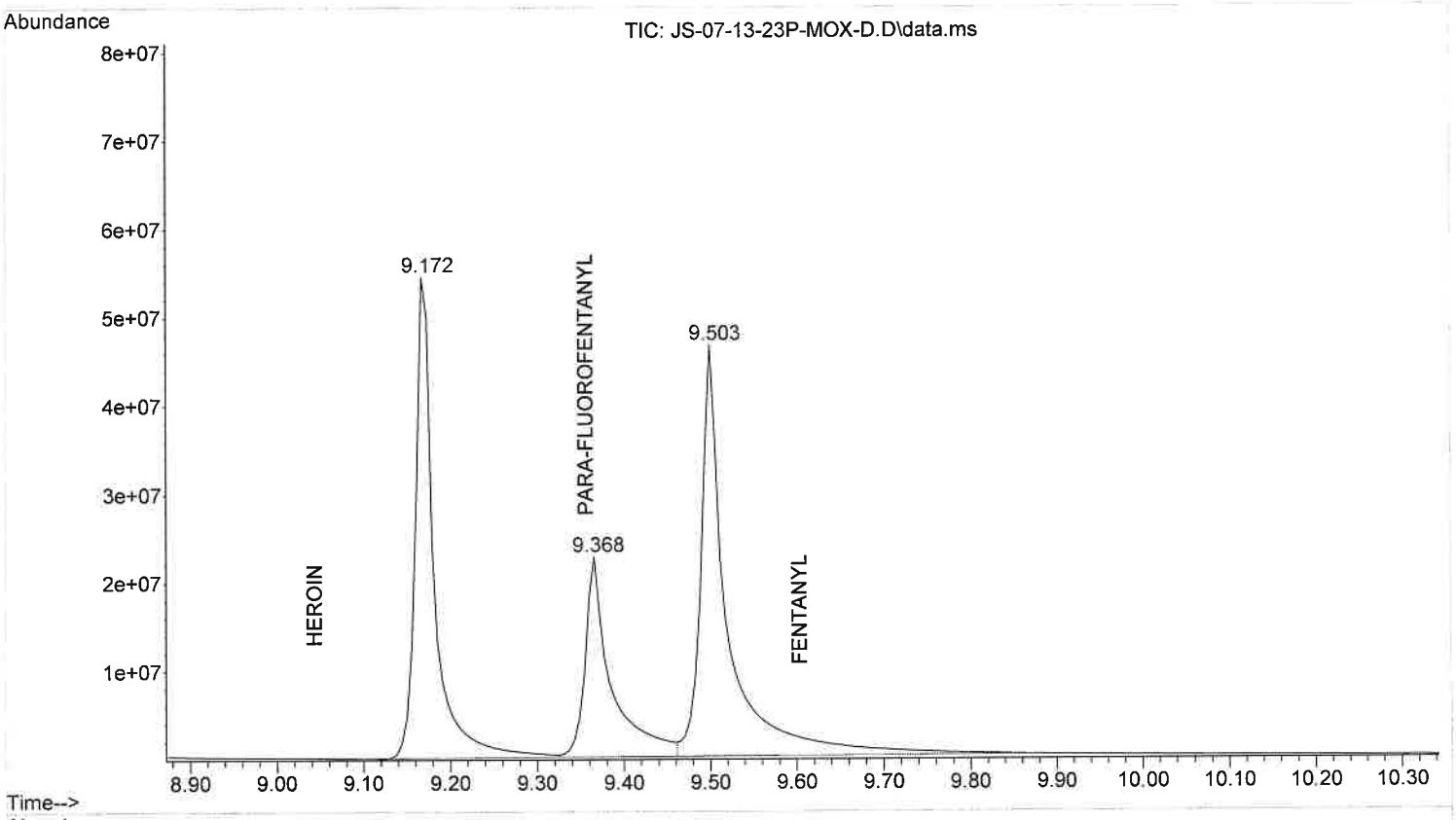



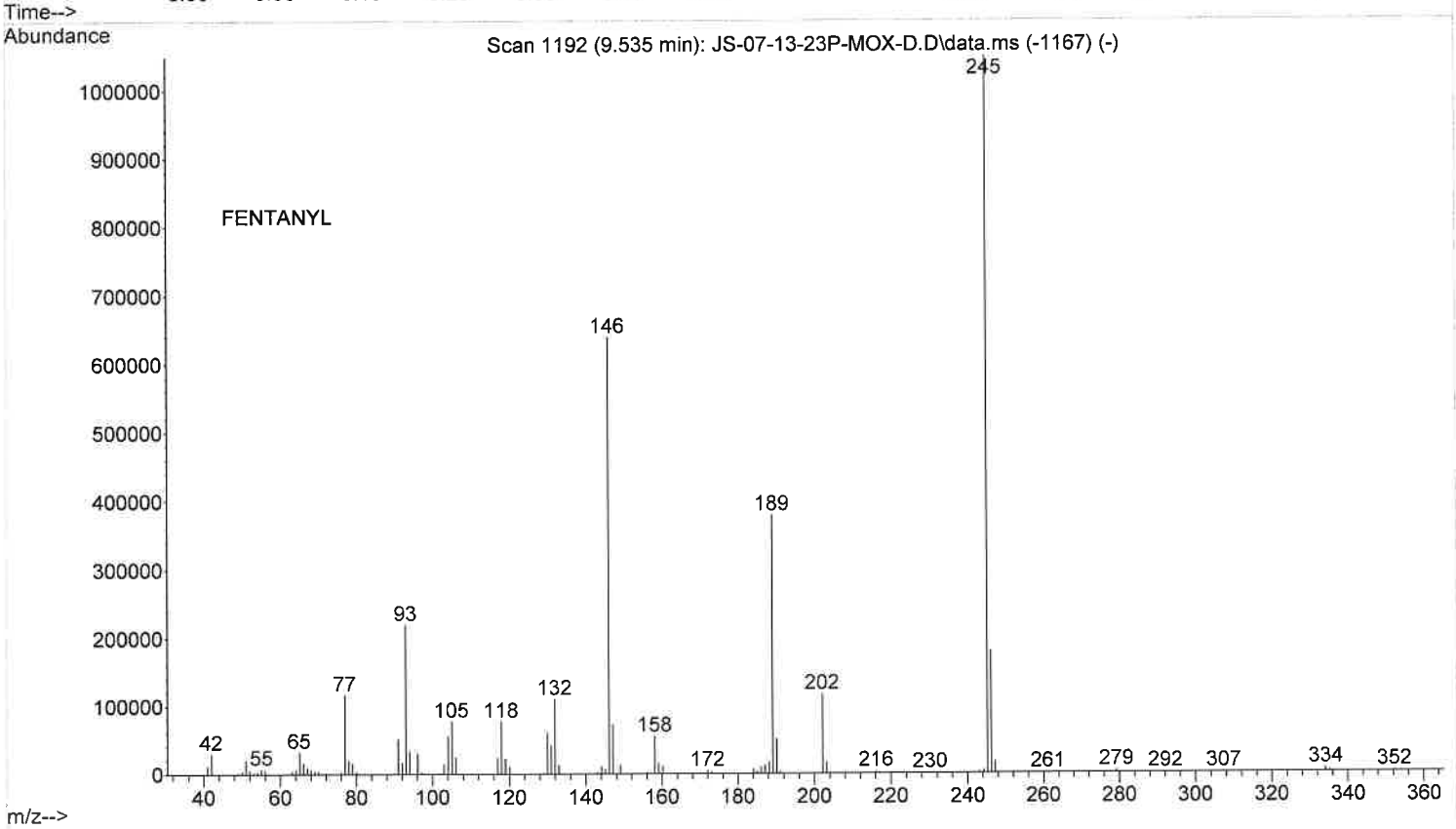
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:21 using AcqMethod DRUG1.M
Sample Name: P-MOX STD
Misc Info : CHCl3



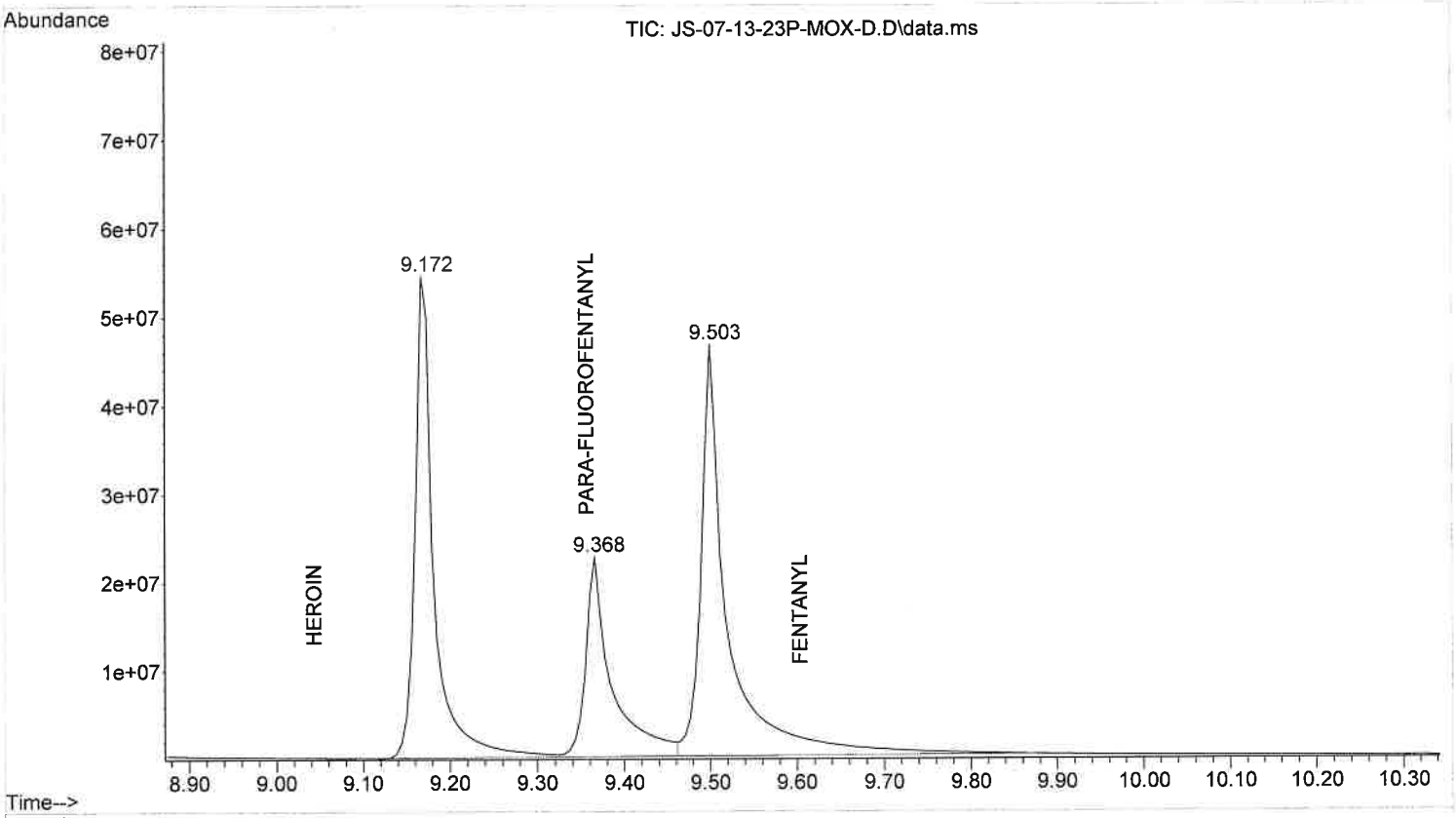



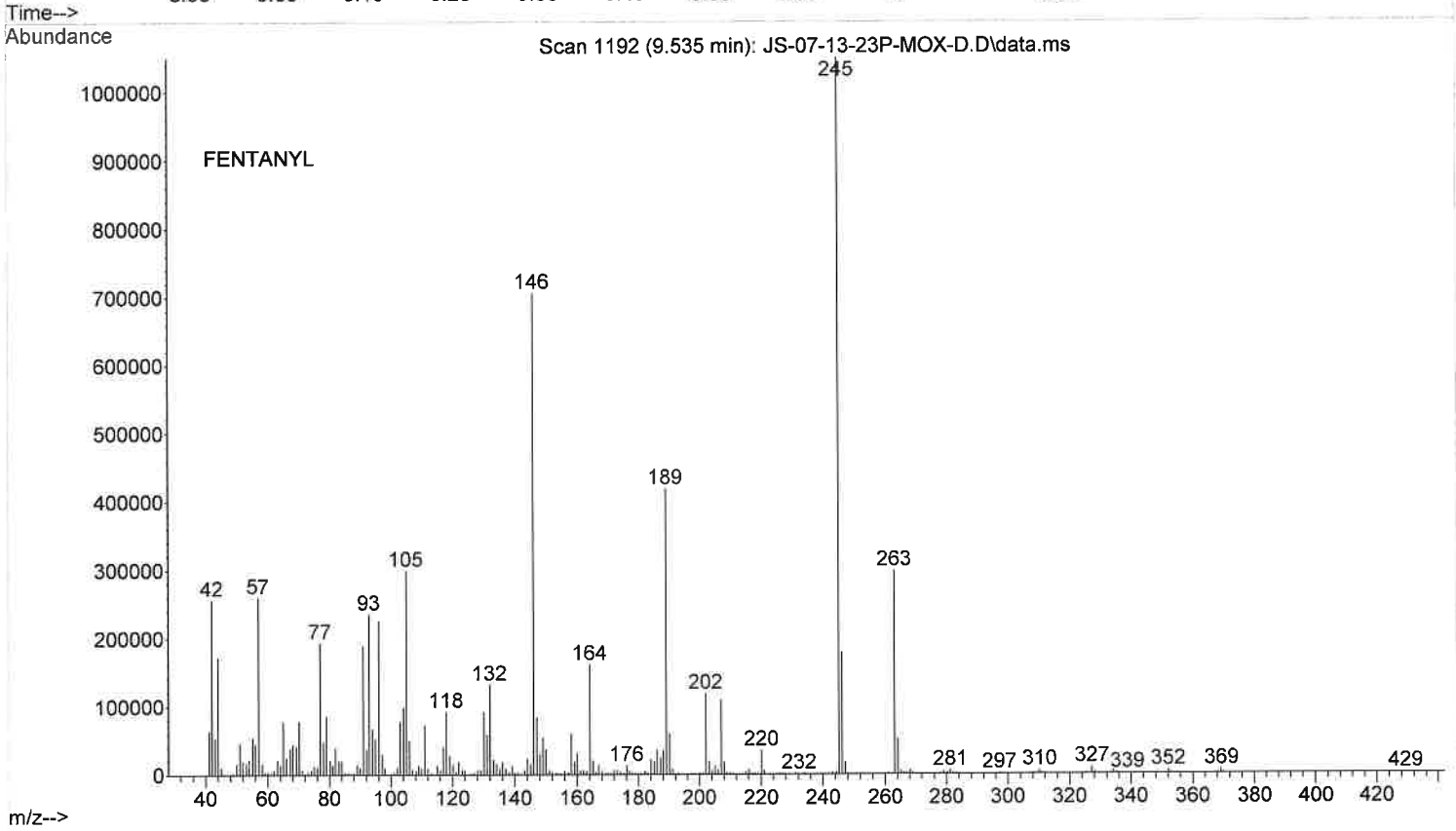
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:21 using AcqMethod DRUG1.M
Sample Name: P-MOX STD
Misc Info : CHCl3



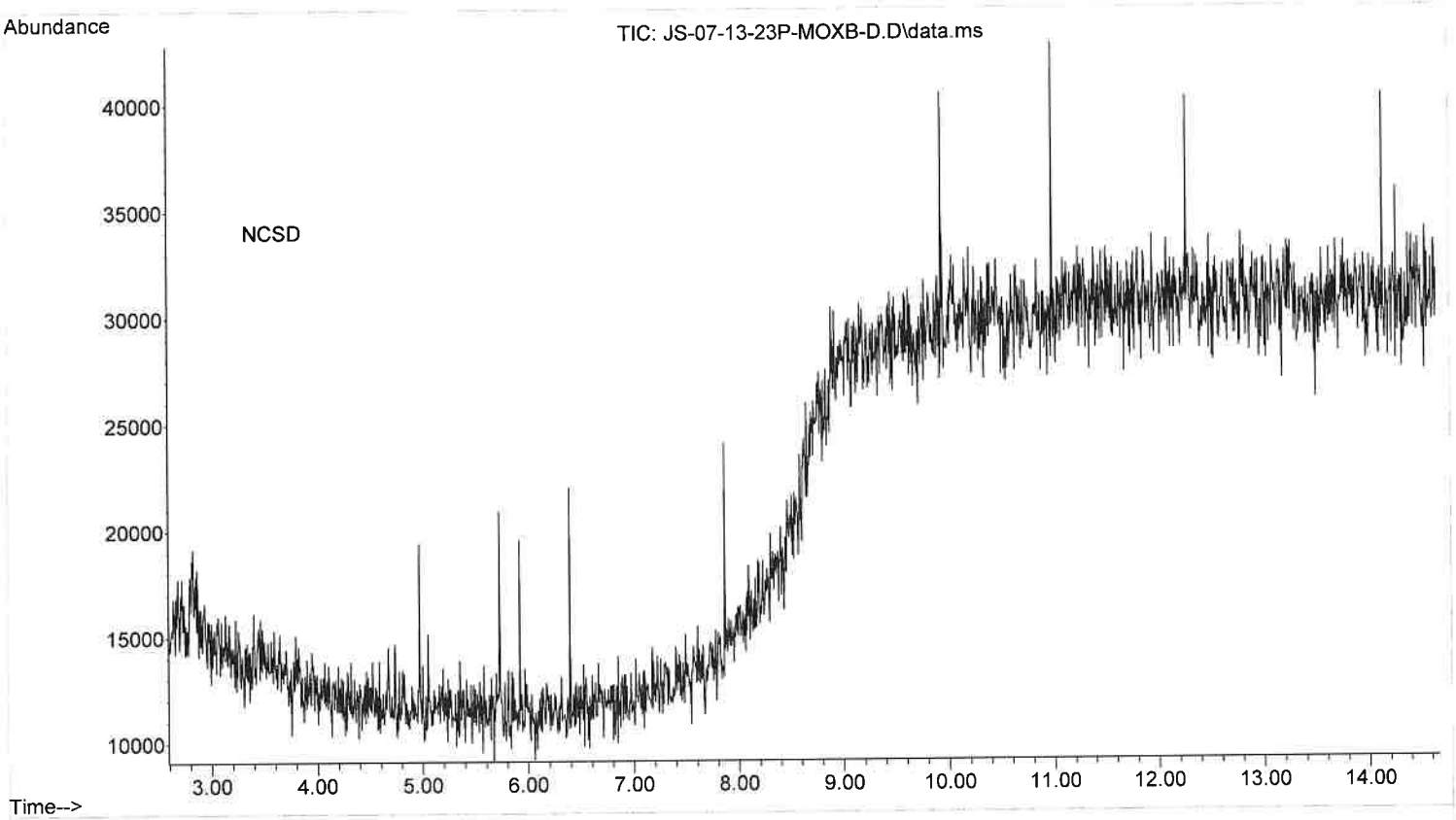



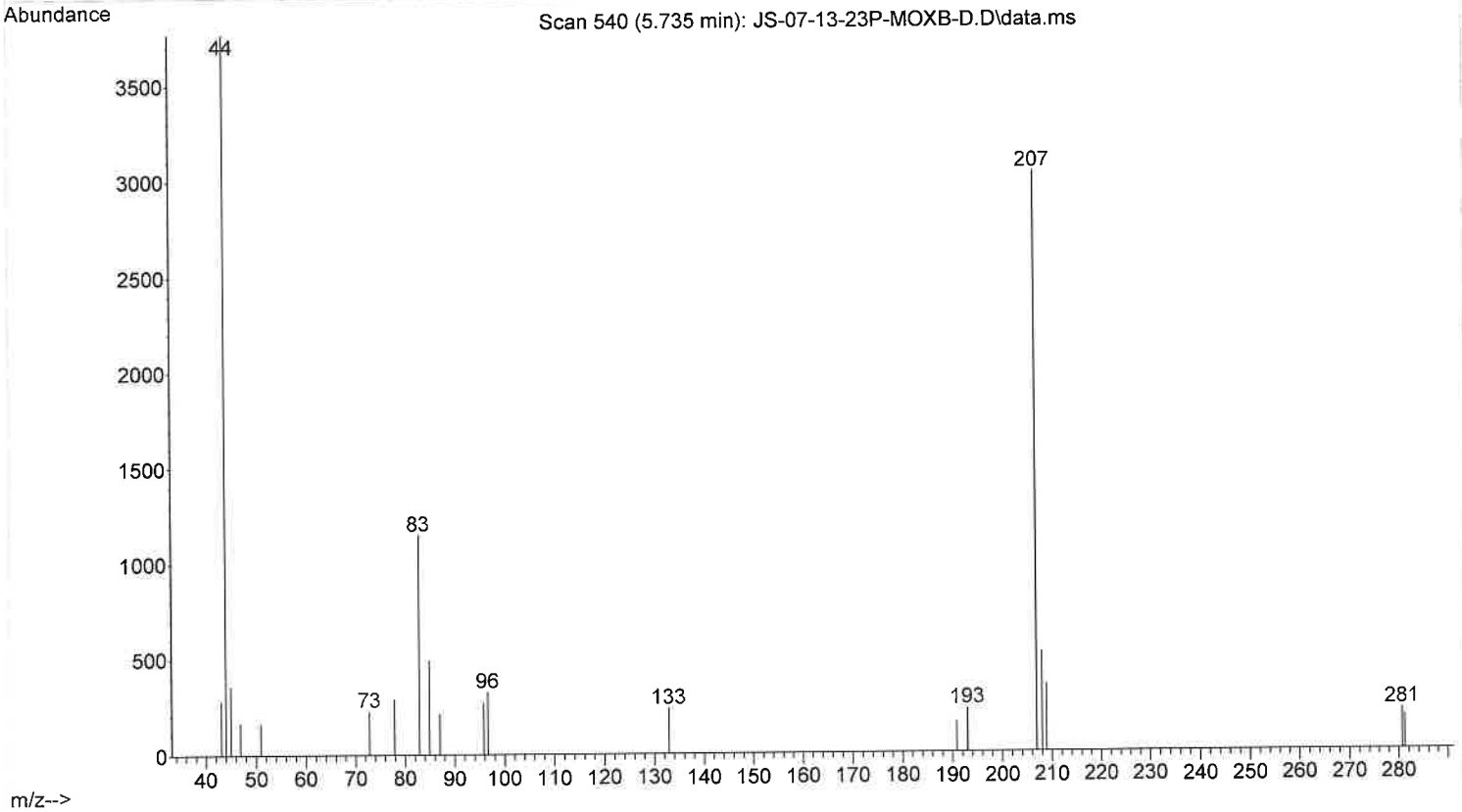
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:21 using AcqMethod DRUG1.M
Sample Name: P-MOX STD
Misc Info : CHCl3



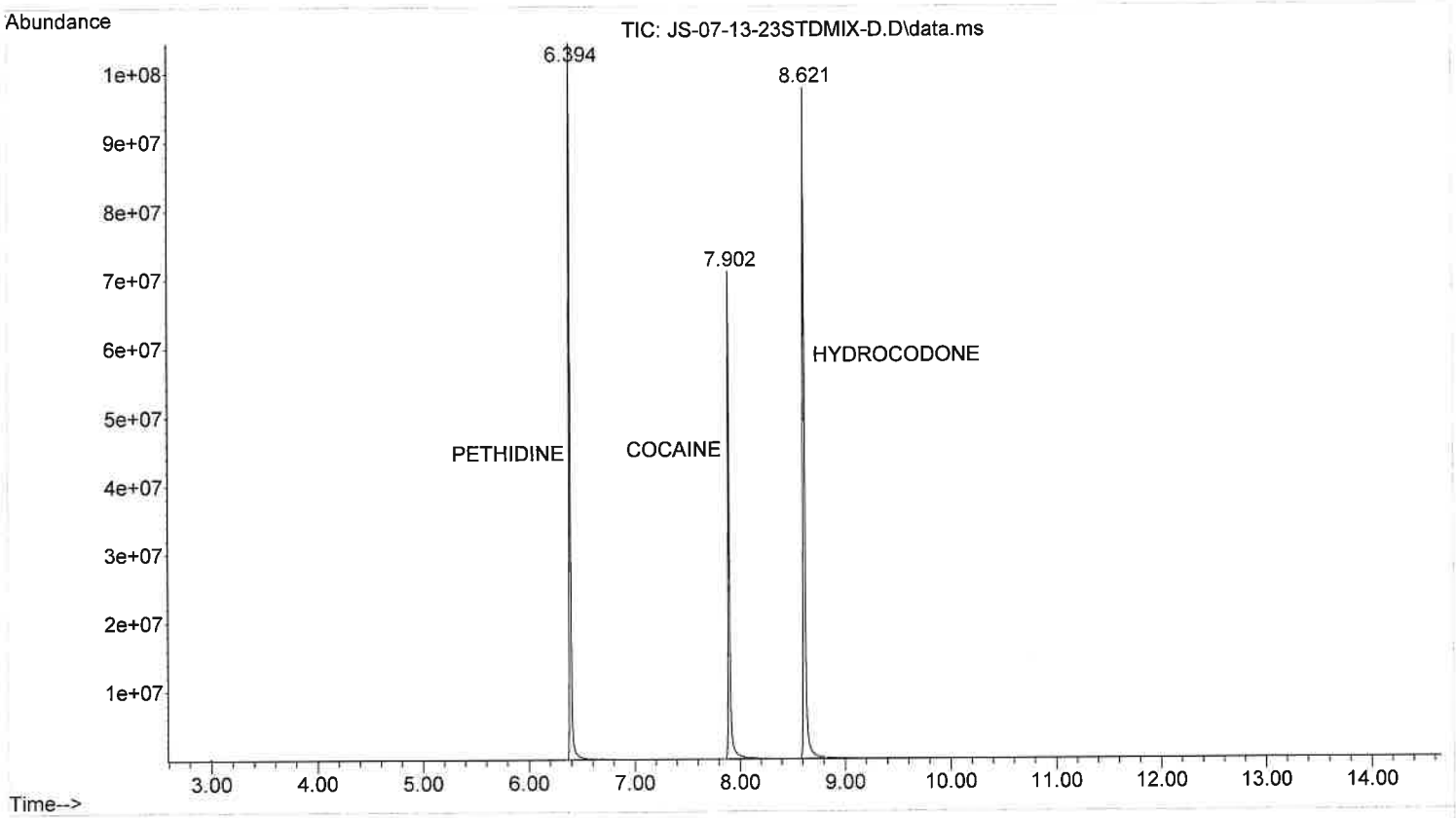



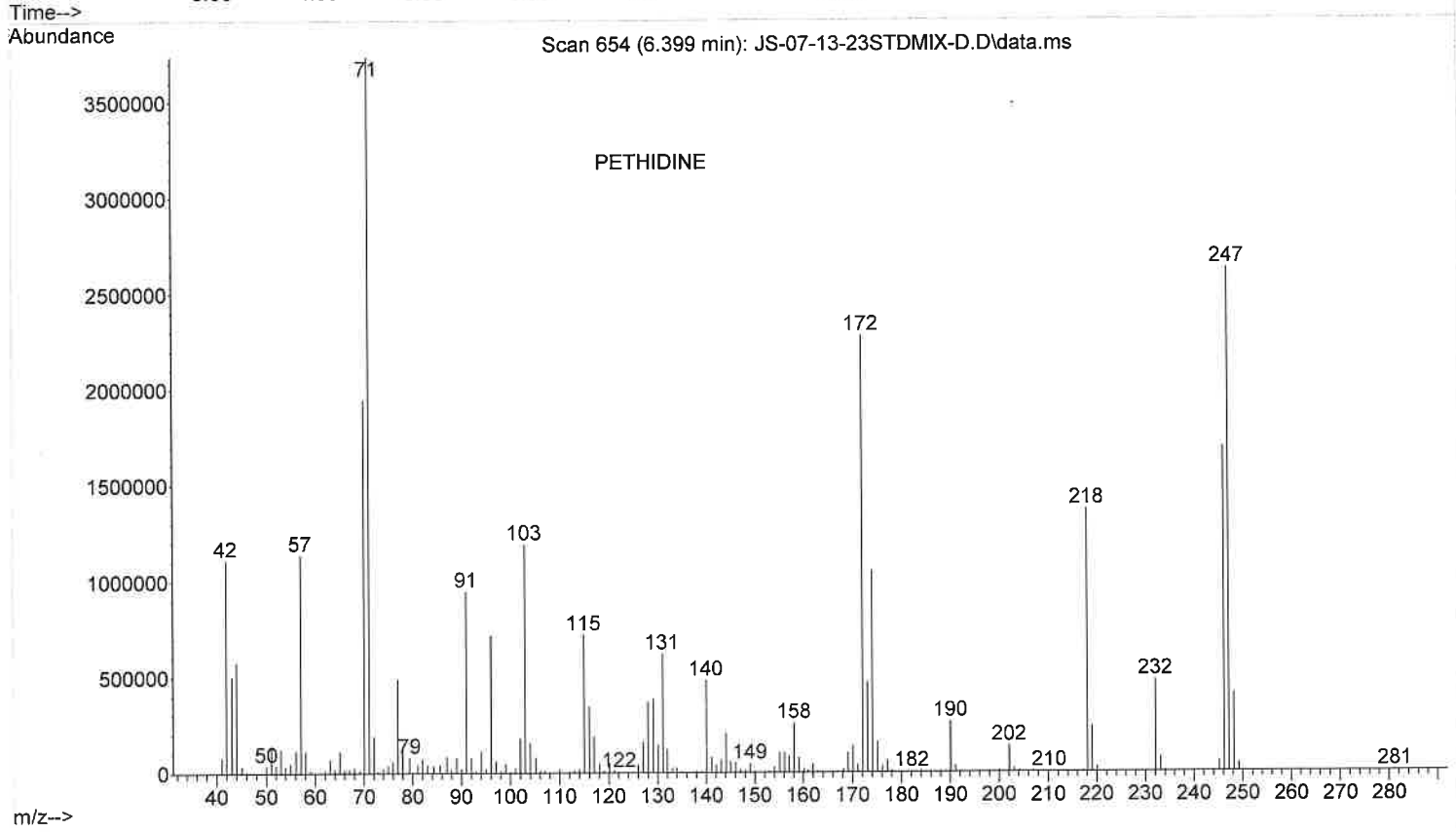
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOXB-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 13:03 using AcqMethod DRUG1.M
Sample Name: P-MOX STD BLANK
Misc Info : CHCl3



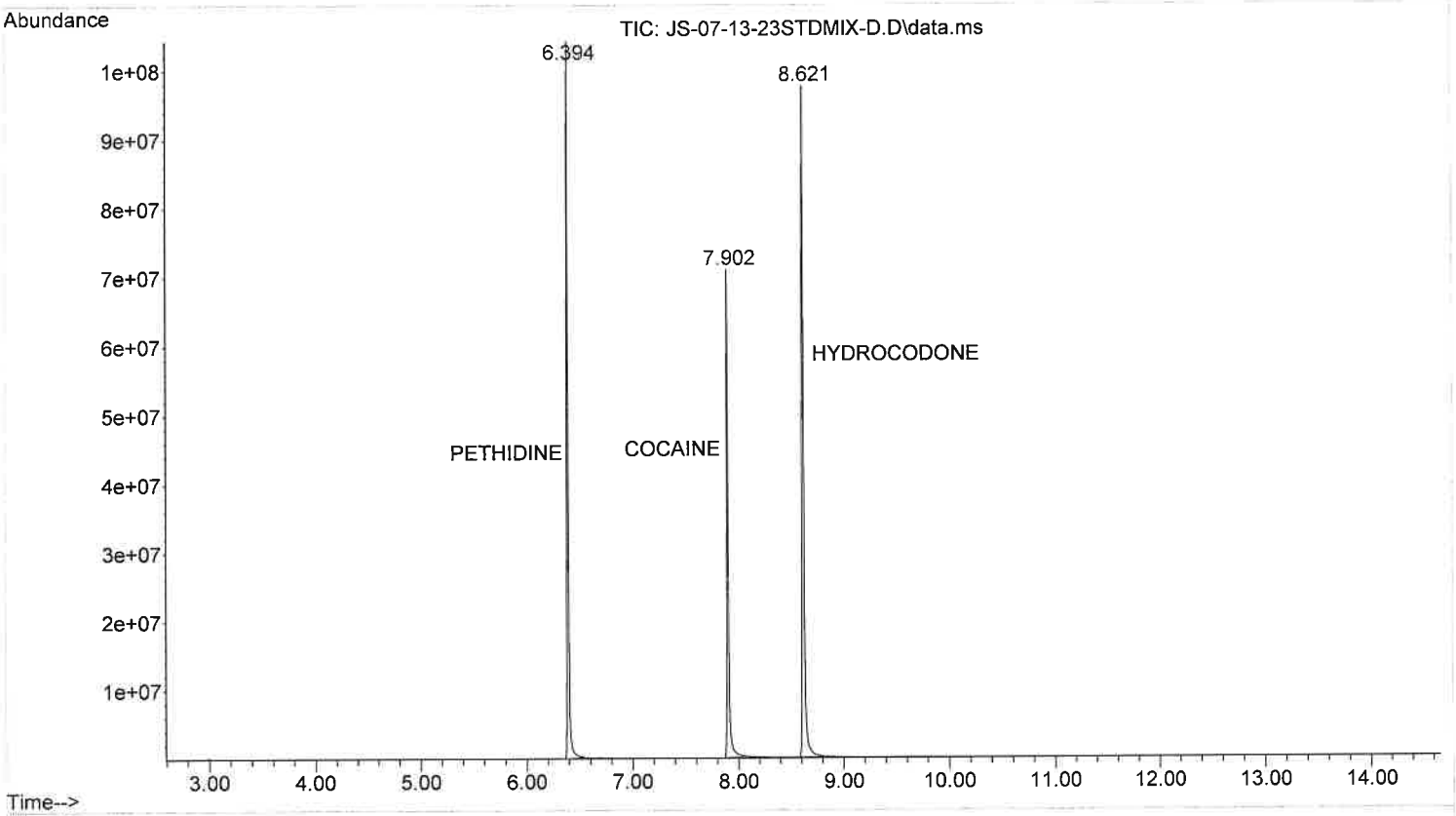



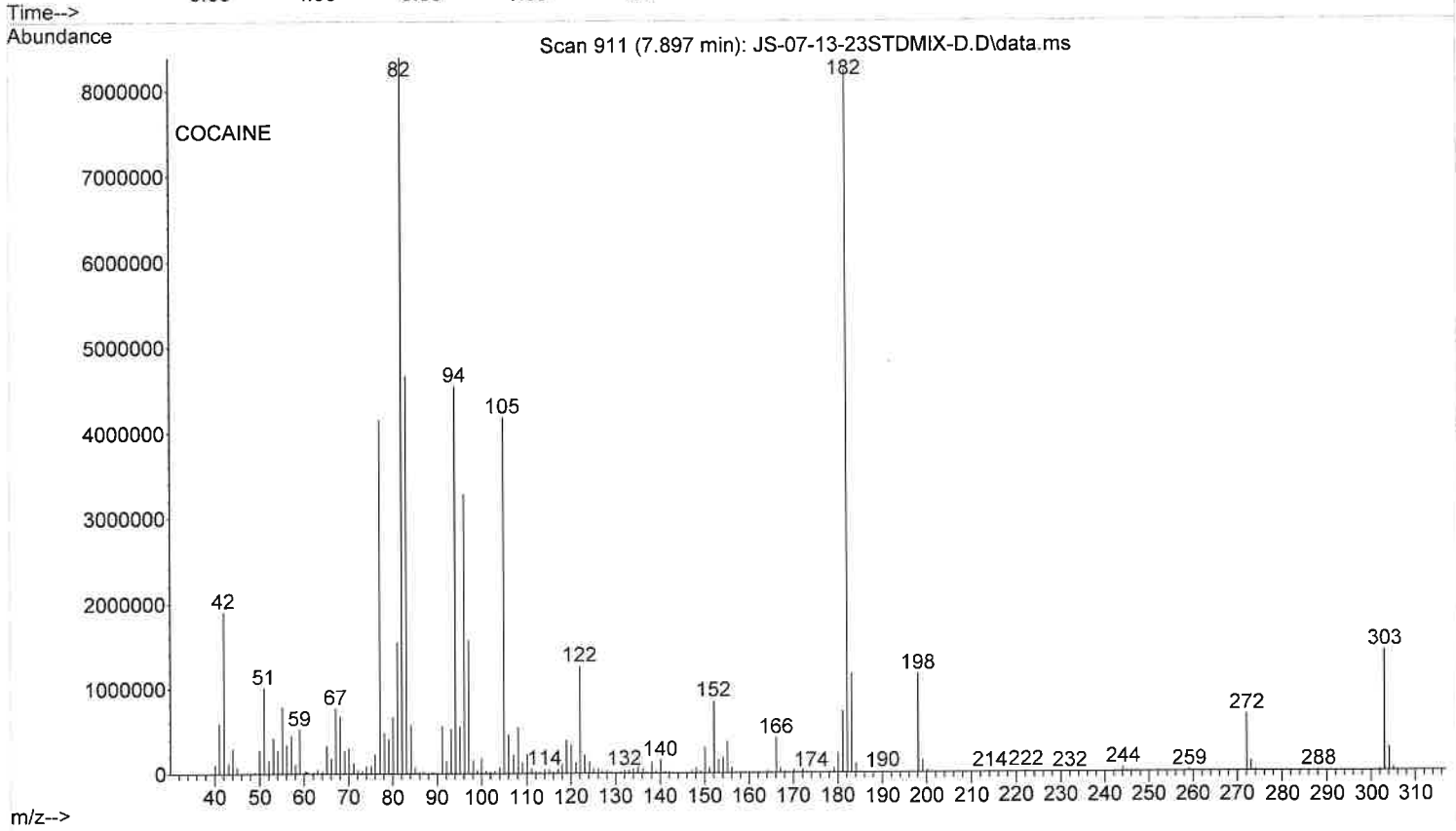
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23STDMIX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 12:27 using AcqMethod DRUG1.M
Sample Name: STD MIX
Misc Info : CHCl3



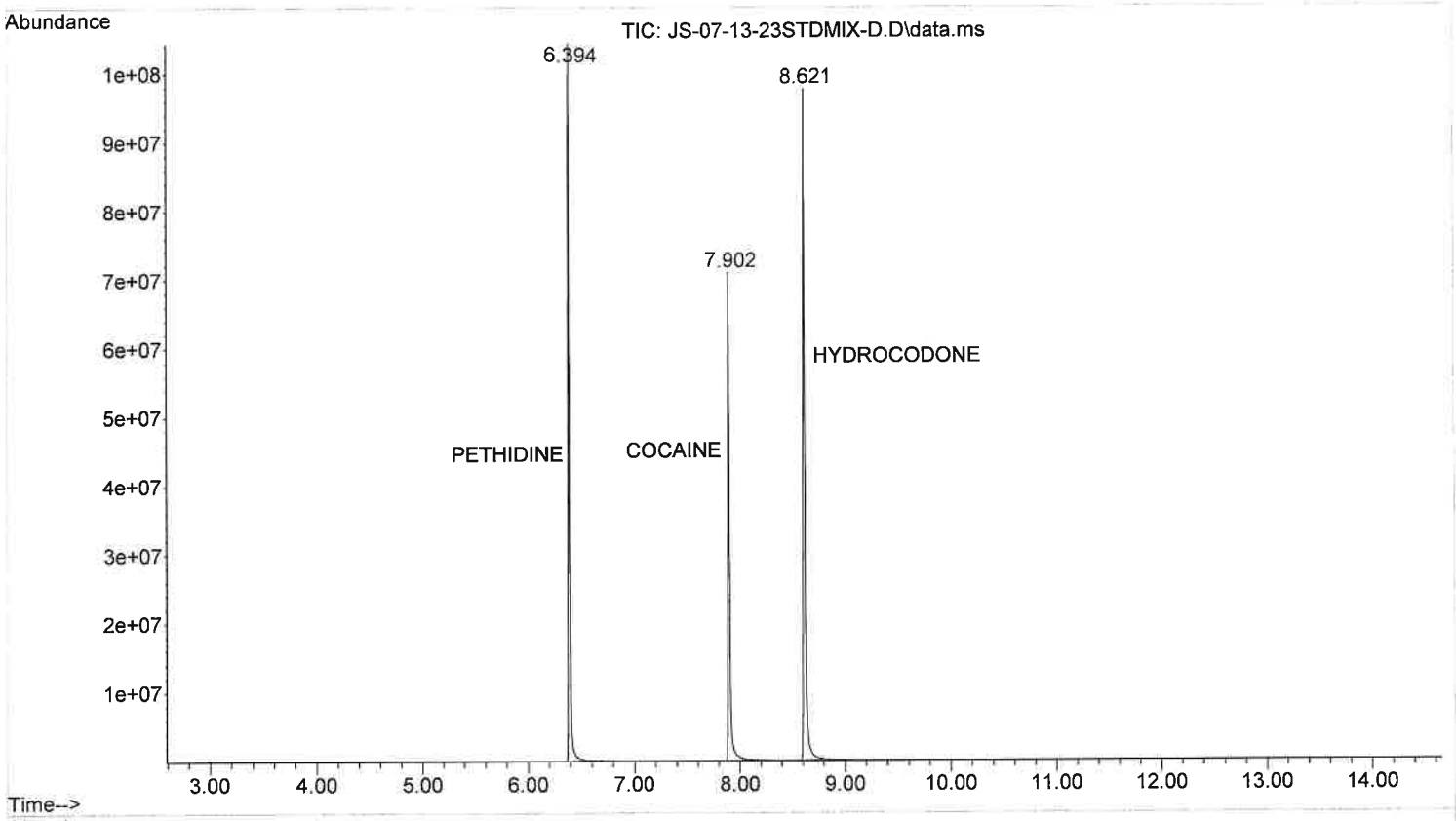



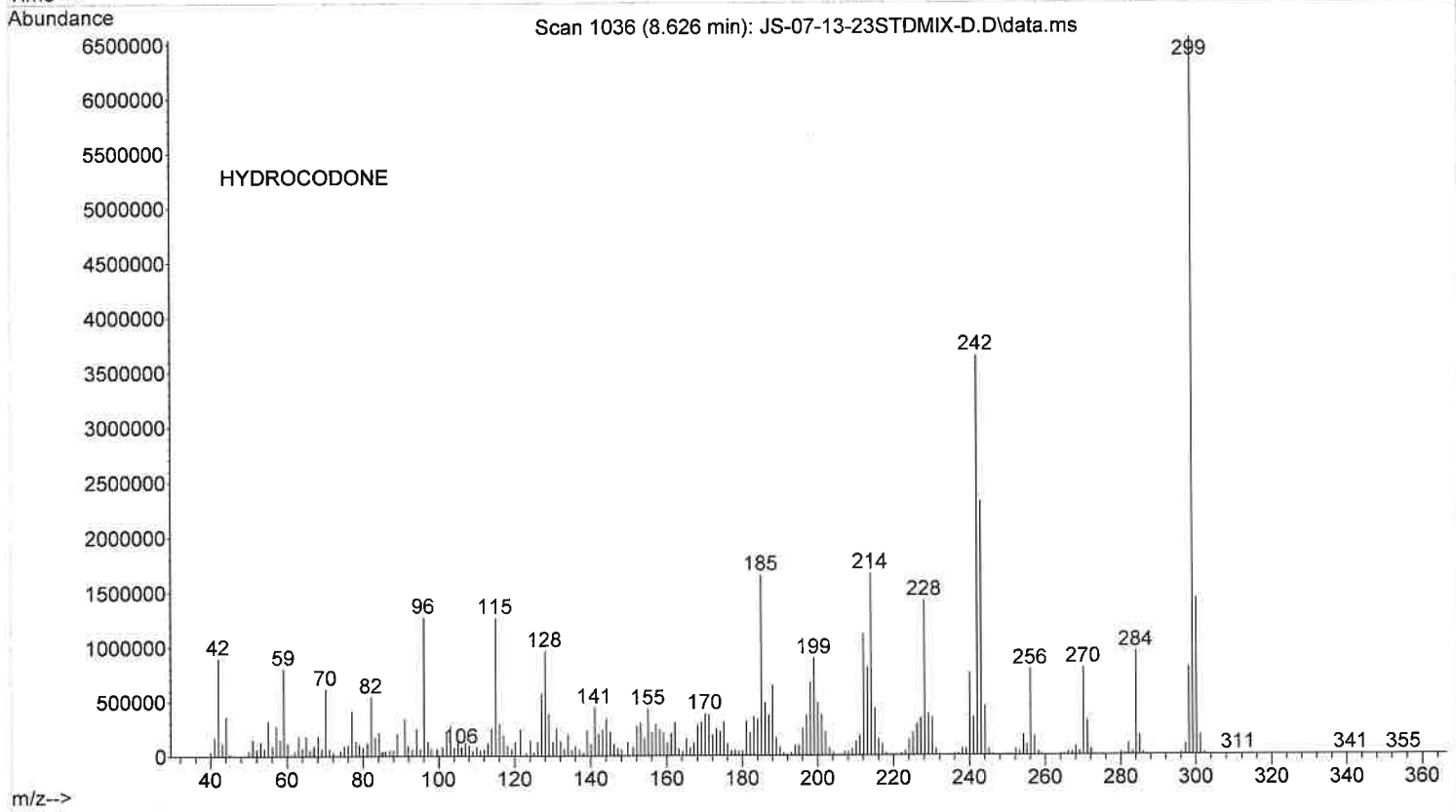
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23STDMIX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 12:27 using AcqMethod DRUG1.M
Sample Name: STD MIX
Misc Info : CHCl3



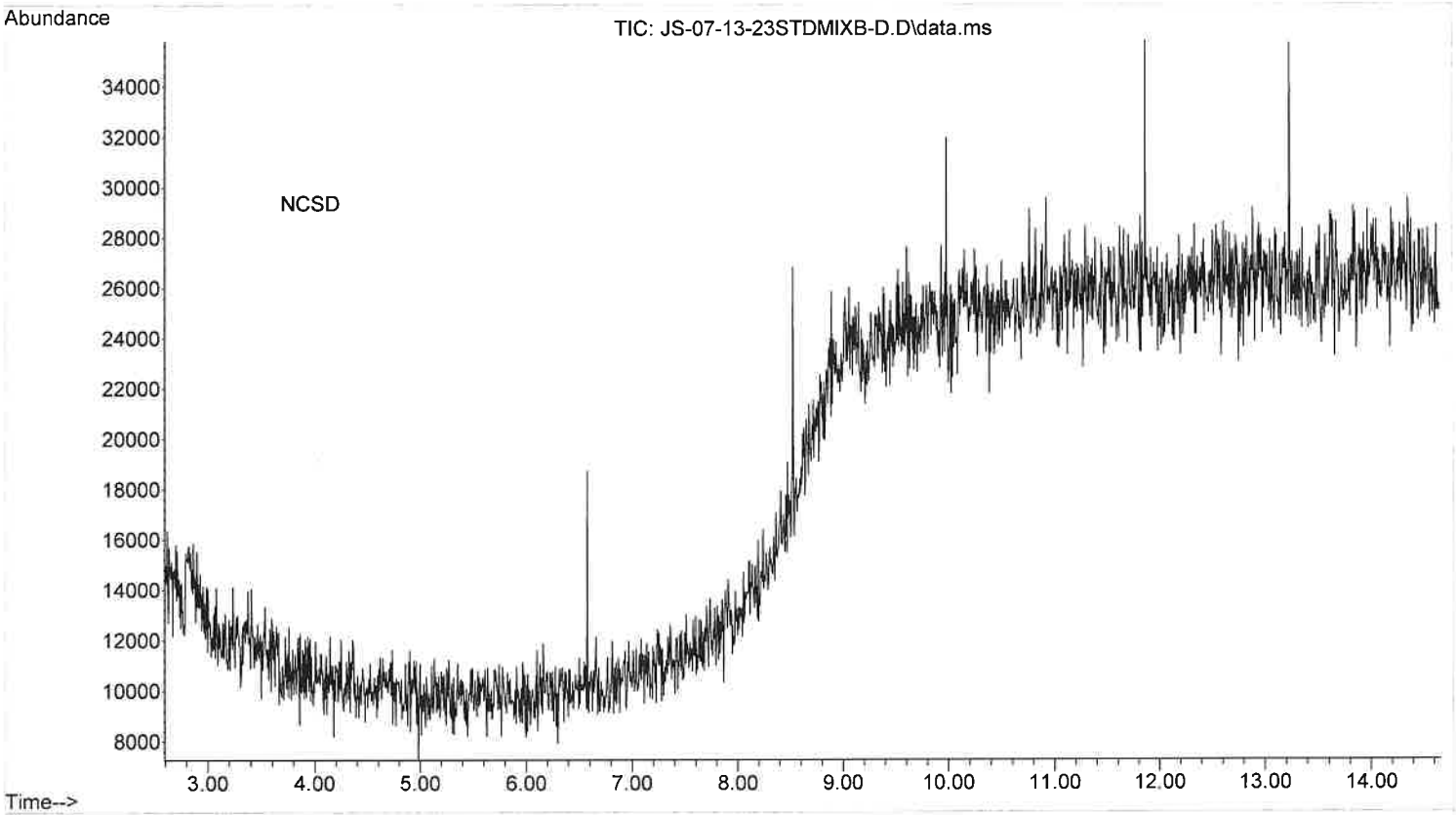



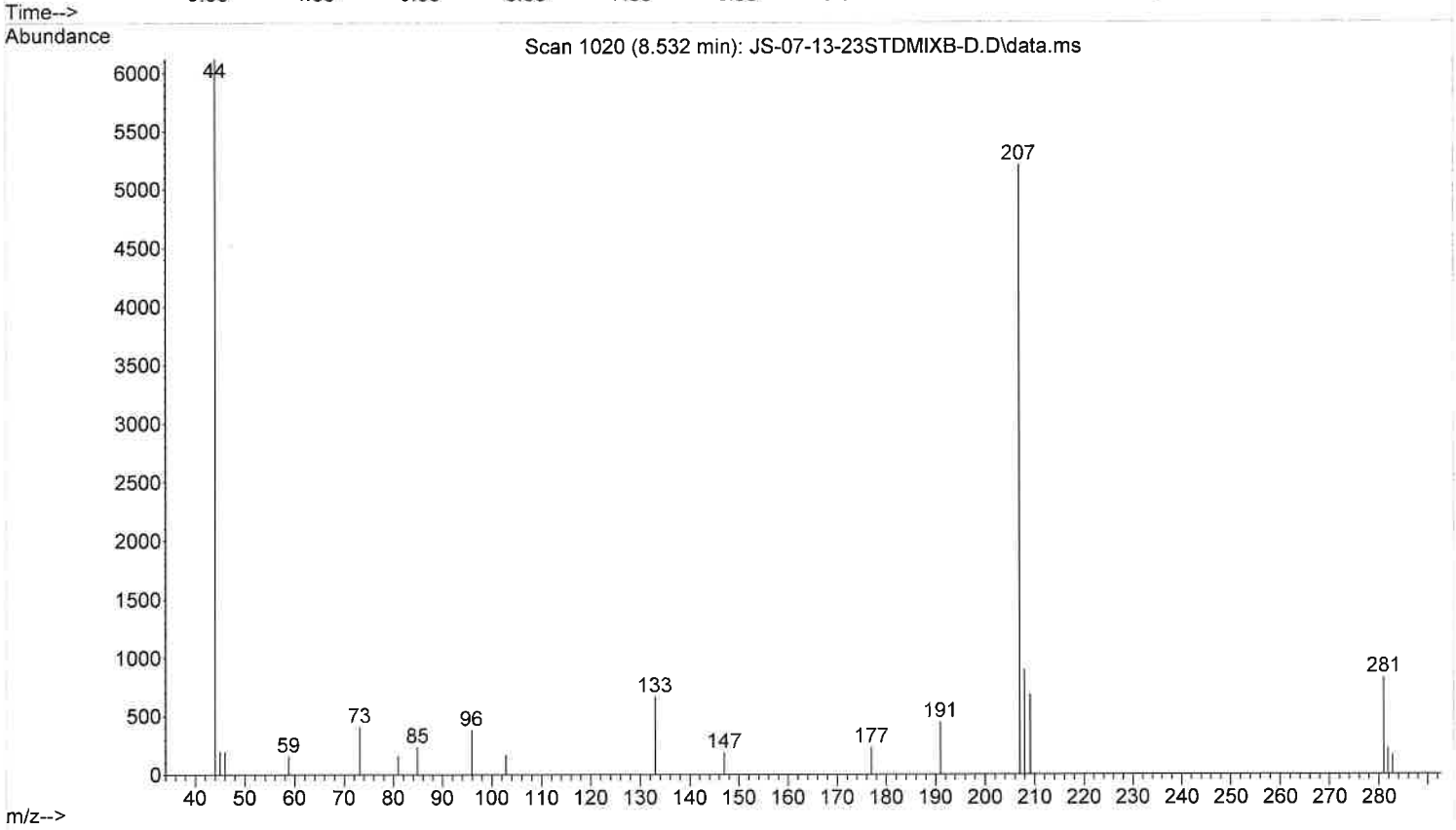
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23STDMIX-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 12:27 using AcqMethod DRUG1.M
Sample Name: STD MIX
Misc Info : CHCl3



File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23STDMIXB-D.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 12:09 using AcqMethod DRUG1.M
Sample Name: STD MIX BLANK
Misc Info : CHCl3



METHOD CONTROL PARAMETERS

Method Information for: C:\MassHunter\GCMS\1\methods\GHB.M

Method Sections To Run:

( ) Save Copy of Method With Data
( ) Instrument Control Pre-Run Cmd/Macro =
( ) Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
(X) Data Analysis
( ) Instrument Control Post-Run Cmd/Macro =
( ) Data Analysis Post-Run Cmd/Macro =

Method Comments:
This is the default method

END OF METHOD CONTROL PARAMETERS

INSTRUMENT CONTROL PARAMETERS: Dobby

C:\MassHunter\GCMS\1\methods\GHB.M
Mon Jul 17 11:34:53 2023

Control Information

| | |
|---|---|
| Sample Inlet | : GC |
| Injection Source | : GC ALS |
| Injection Location: | Front |
| Mass Spectrometer | : Enabled |

No Sample Prep method has been assigned to this method.

GC

| | |
|---|---|
| GC Summary | |
| Run Time | 14.667 min |
| Post Run Time | 0 min |
| Oven | |
| Temperature | |
| Setpoint | On |
| (Initial) | 80 °C |
| Hold Time | 1 min |
| Post Run | 80 °C |
| Program | |
| #1 Rate | 30 °C/min |
| #1 Value | 280 °C |
| #1 Hold Time | 7 min |
| Equilibration Time | 0 min |
| Max Temperature | 325 °C |
| Maximum Temperature Override | Disabled |
| Slow Fan | Disabled |

ALS

| | |
|---|---|
| Front Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |

| | |
|---|---|
| Solvent Wash Mode | A, B |
| | |
| Back Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Sample Overlap | |
| Mode | Sample overlap is not enabled |
| | |
| ALS Errors | Pause for user interaction |
| | |
| Front SS Inlet He | |
| Mode | Split |
| Heater | On 250 °C |
| Pressure | On 9.1608 psi |
| Total Flow | On 44 mL/min |
| Septum Purge Flow | On 3 mL/min |
| Gas Saver | On 20 After 2 min mL/min |
| Split Ratio | 39.9999274271017 :1 |
| Split Flow | 40 mL/min |
| Liner | Agilent 5190-2270: 900 µL (Splitless, single taper, deacti |
| | |
| Back SS Inlet He | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Mode | Split |
| Heater | Off |
| Pressure | Off |
| Total Flow | Off |
| Septum Purge Flow | Off |
| Gas Saver | Off |
| Split Ratio | 1 :1 |
| Split Flow | 0 mL/min |
| Liner | A Liner has not been selected. |
| | |
| Thermal Aux 2 (MSD Transfer Line) | |
| Temperature | |
| Setpoint | On |
| (Initial) | 280 °C |

Column
Column #1
Flow

| | |
|---|---|
| Setpoint | On |
| (Initial) | 1 mL/min |
| Post Run | 1.0812 mL/min |
| | |
| Column Information | Agilent 128-0112 |
| DB-1ms | |
| Temperature Range | -60 °C—340 °C (350 °C) |
| Dimensions | 12 m x 200 µm x 0.33 µm |
| Column lock | Unlocked |
| In | Front SS Inlet He |
| Out | MSD |
| (Initial) | 80 °C |
| Pressure | 9.1608 psi |
| Flow | 1 mL/min |
| Average Velocity | 58.448 cm/sec |
| Holdup Time | 0.34218 min |
| Control Mode | Constant Flow |
| | |
| Column #2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 0 psi |
| Post Run | 0 psi |
| | |
| Column Information | Agilent 19091Z-211 |
| HP-1 | |
| Temperature Range | -60 °C—325 °C (350 °C) |
| Dimensions | 15 m x 320 µm x 1 µm |
| Column lock | Unlocked |
| In | Back SS Inlet He |
| Out | Front Detector FID |
| (Initial) | 80 °C |
| Pressure | 0 psi |
| Flow | 0 mL/min |
| Average Velocity | 0 cm/sec |
| Holdup Time | ∞ min |
| Control Mode | Constant Pressure |
| | |
| Column Outlet Pressure | 0 psi |
| | |
| Front Detector FID | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Makeup | N2 |
| Heater | Off |
| H2 Flow | Off |
| Air Flow | Off |
| Makeup Flow | Off |
| Carrier Gas Flow Correction | Constant Makeup and Fuel Flow |
| Flame | Off |
| | |
| Aux EPC 1,2,3 | |
| Aux EPC 1 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| | |
| Aux EPC 2 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |

| | |
|---|---|
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Aux EPC 3 N2 Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

Signals

| | |
|---|---|
| Signal #1: Test Plot | |
| Description | Test Plot |
| Save | Off |
| Data Rate | 50 Hz |
| Dual Injection Assignment | Front Sample |
| Signal #2: | |
| Description | None |
| Signal #3: | |
| Description | None |
| Signal #4: | |
| Description | None |

TUNE PARAMETERS for SN: US1439L407

Trace Ion Detection is OFF.

| | | | |
|---|---|---|---|
| 34.593 | : | EMISSION | |
| 70.007 | : | ENERGY | |
| 34.899 | : | REPELLER | |
| 90.331 | : | IONFOCUS | |
| 20.181 | : | ENTRANCE_LENS | |
| 963.560 | : | EMVOLTS | |
| | | 1151.3 | : Actual EMV |
| | | 2.60 | : GAIN FACTOR |
| 1322.000 | : | AMUGAIN | |
| 123.750 | : | AMUOFFSET | |
| 1.000 | : | FILAMENT | |
| 0.000 | : | DCPOLARITY | |
| 15.312 | : | ENTLENSOFFSET | |
| 0.000 | : | Ion_Body | |
| 0.000 | : | EXTLENS | |
| -468.000 | : | MASSGAIN | |
| -36.000 | : | MASSOFFSET | |

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\MassHunter\GCMS\1\methods\GHB.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

| Library to Search | Minimum Quality |
|---|---|
| DEMO.L | 0 |

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

Calibration Last Updated:

Reference Window: 10.00 Percent
Non-Reference Window: 5.00 Percent
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Mon Jul 17 11:34:59 2023

# Single Quadrupole Acquisition Method - MS Parameters Report

| | |
|---|---|
| **Method file** | C:\MassHunter\GCMS\1\methods\GHB.M |
| **Tune file** | ATUNE.U |
| **Ion source** | EI |
| **Source temperature (°C)** | 230 |
| **Quad temperature (°C)** | 150 |
| **Fixed Electron energy (eV)** | 70.0 |
| **Acquisition Type** | Scan |
| **Stop time (min)** | 10.00 |
| **Solvent delay (min)** | 0.00 |
| **Trace Ion Detection** | False |
| **Gain Factor** | 2.6 |
| **EM Saver** | False |
| **EM Saver Limit** | N/A |

**Scan Time Segments**

| Time | Start Mass | End Mass | Threshold | Scan Speed |
|---|---|---|---|---|
| 0.00 | 40 | 500 | 150 | 1,562 [N=2] |

**Timed Events**

| Time | Type of Event | Parameter |
|---|---|---|

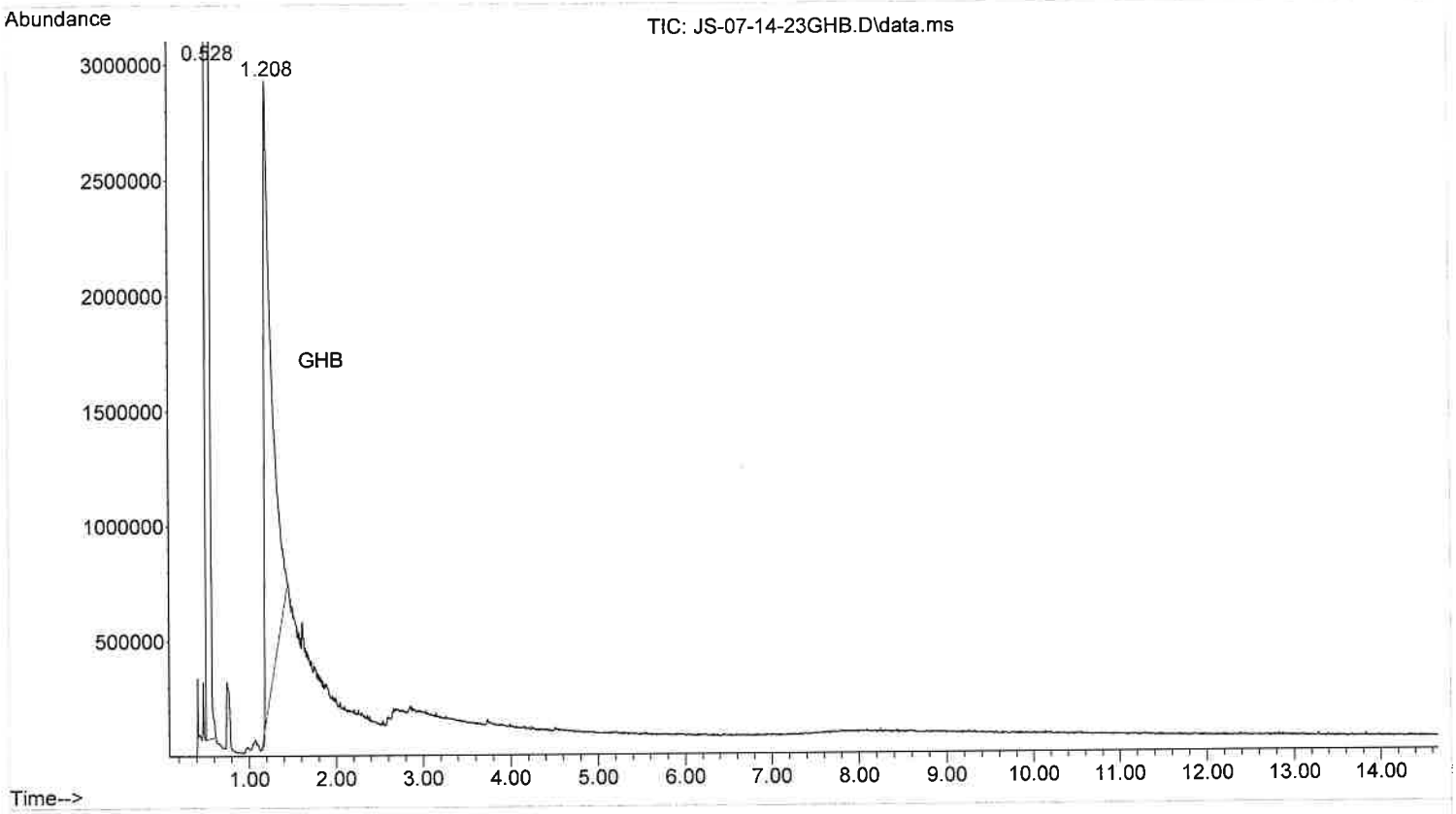
**Real-Time Plots**

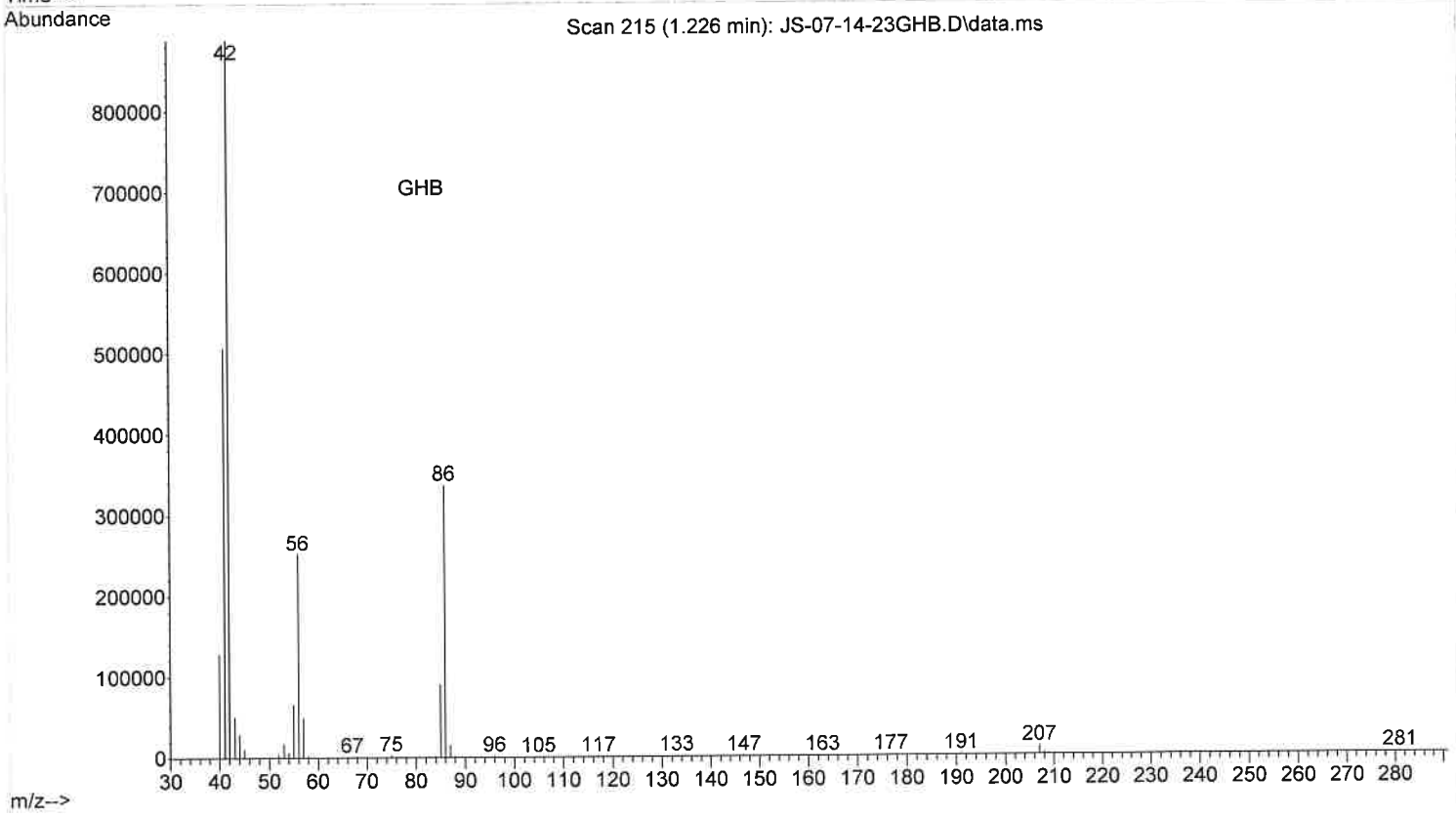
| Type of Plot | Label | Low Mass | High Mass |
|---|---|---|---|
| Total Ion | N/A | N/A | N/A |
| Spectrum | N/A | N/A | N/A |
| Extracted Ion | Scan 1-1 | 50 | 550 |
| Extracted Ion | Scan 1-2 | 40 | 550 |

**Self-Cleaning Ion Source Parameters**

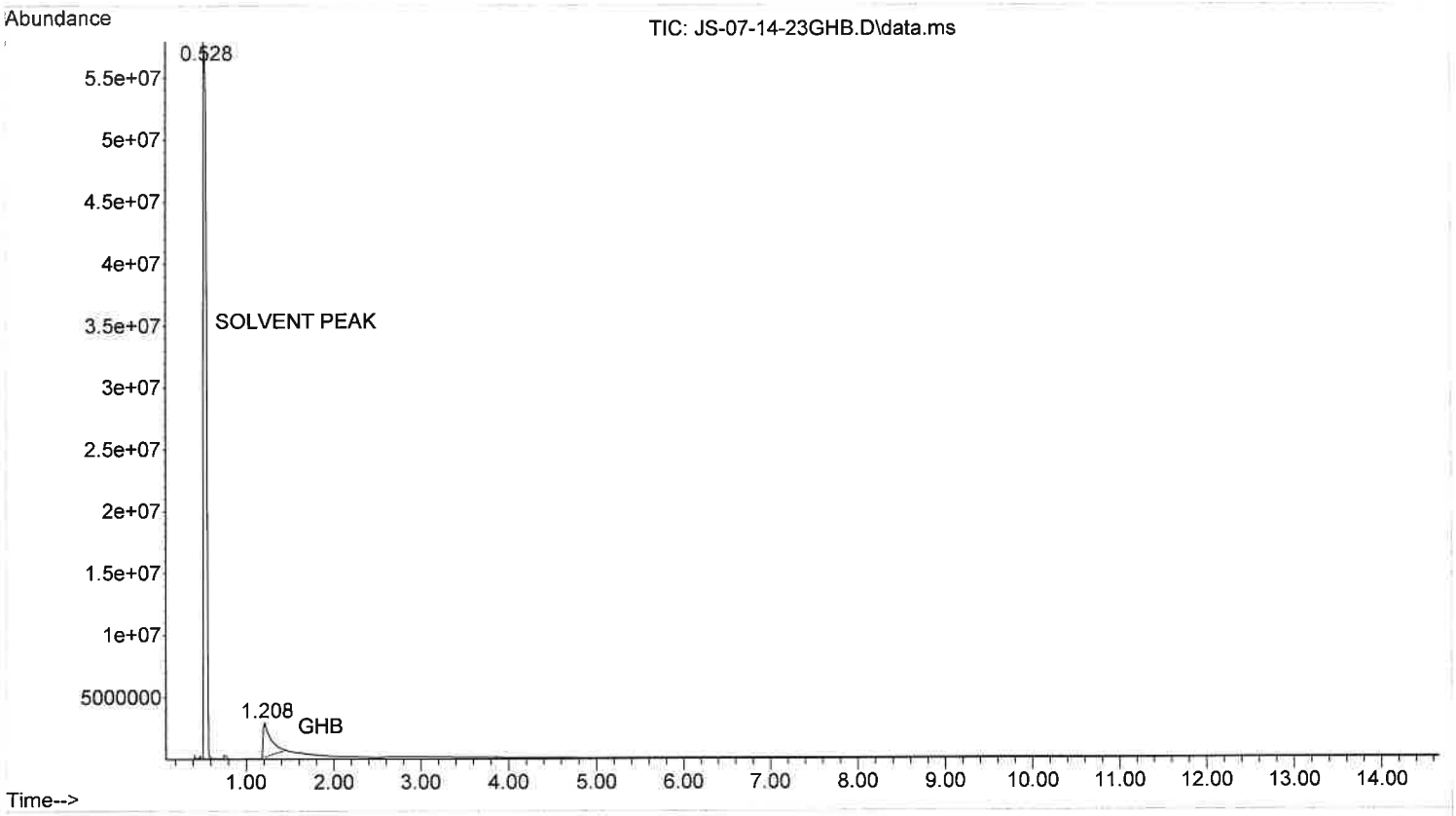
| | |
|---|---|
| Mode | No Cleaning |

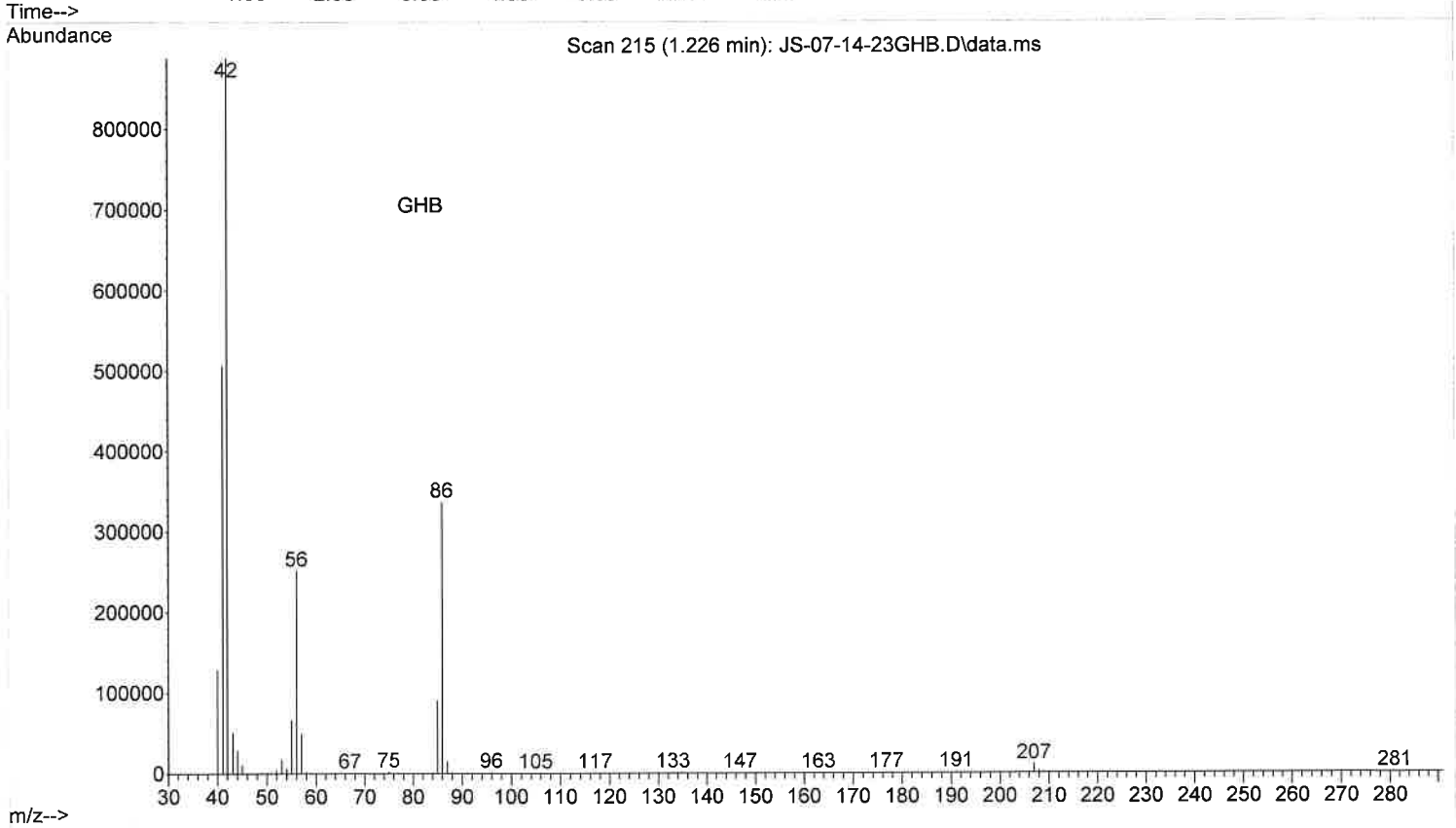
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23GHB.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 13:41 using AcqMethod GHB.M
Sample Name: GHB STD
Misc Info : MeOH



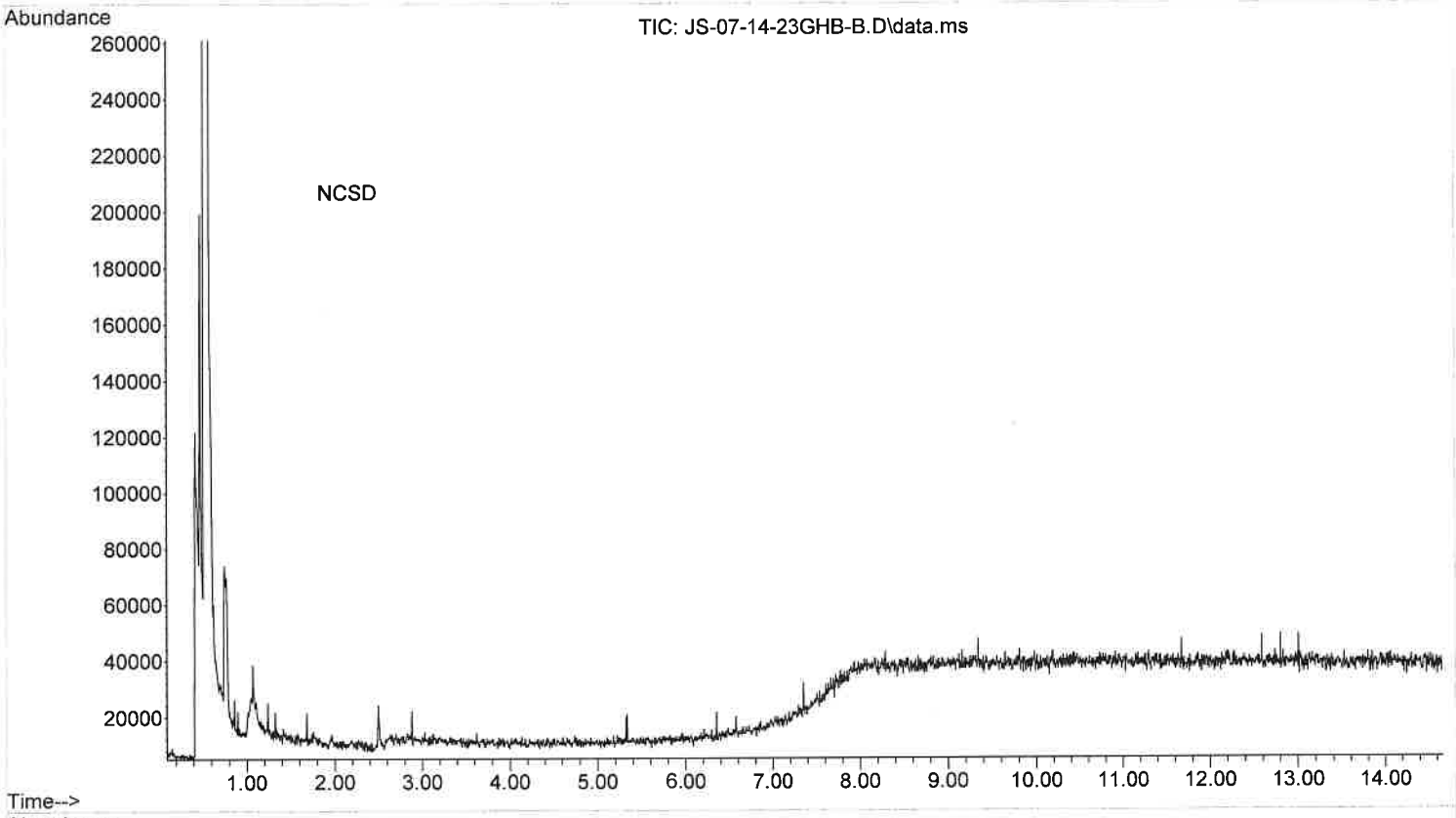



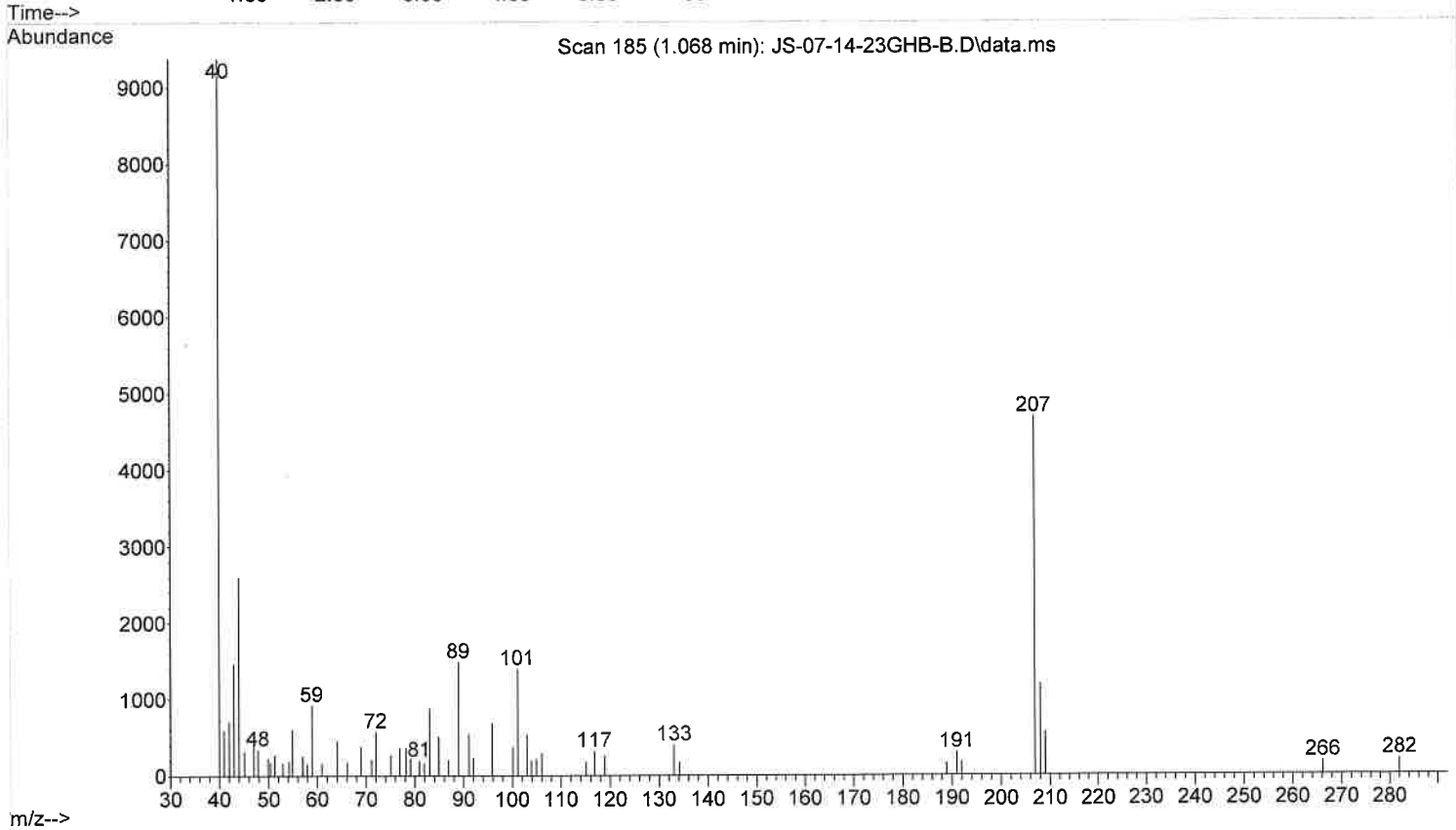
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23GHB.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 13:41 using AcqMethod GHB.M
Sample Name: GHB STD
Misc Info : MeOH



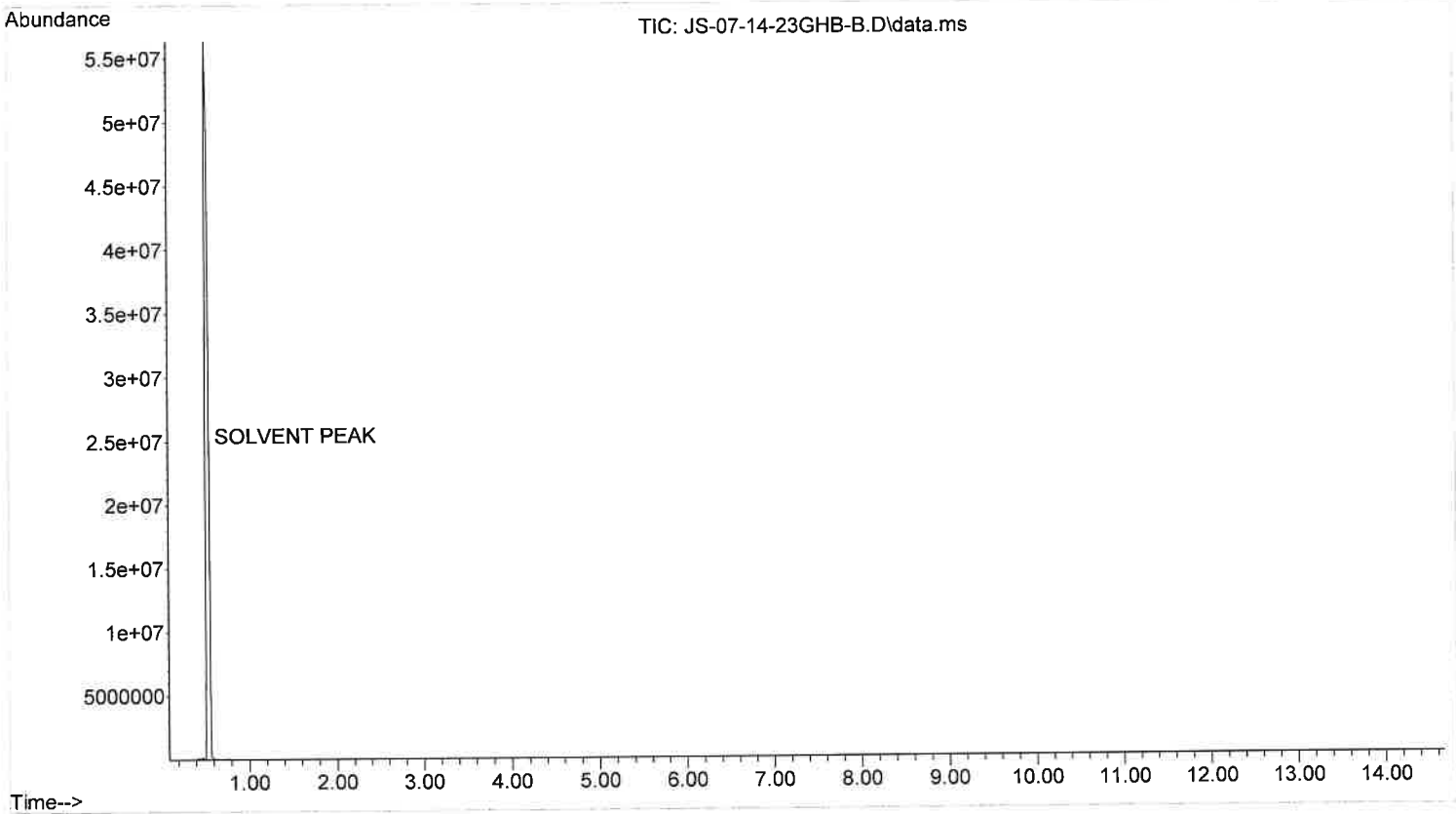



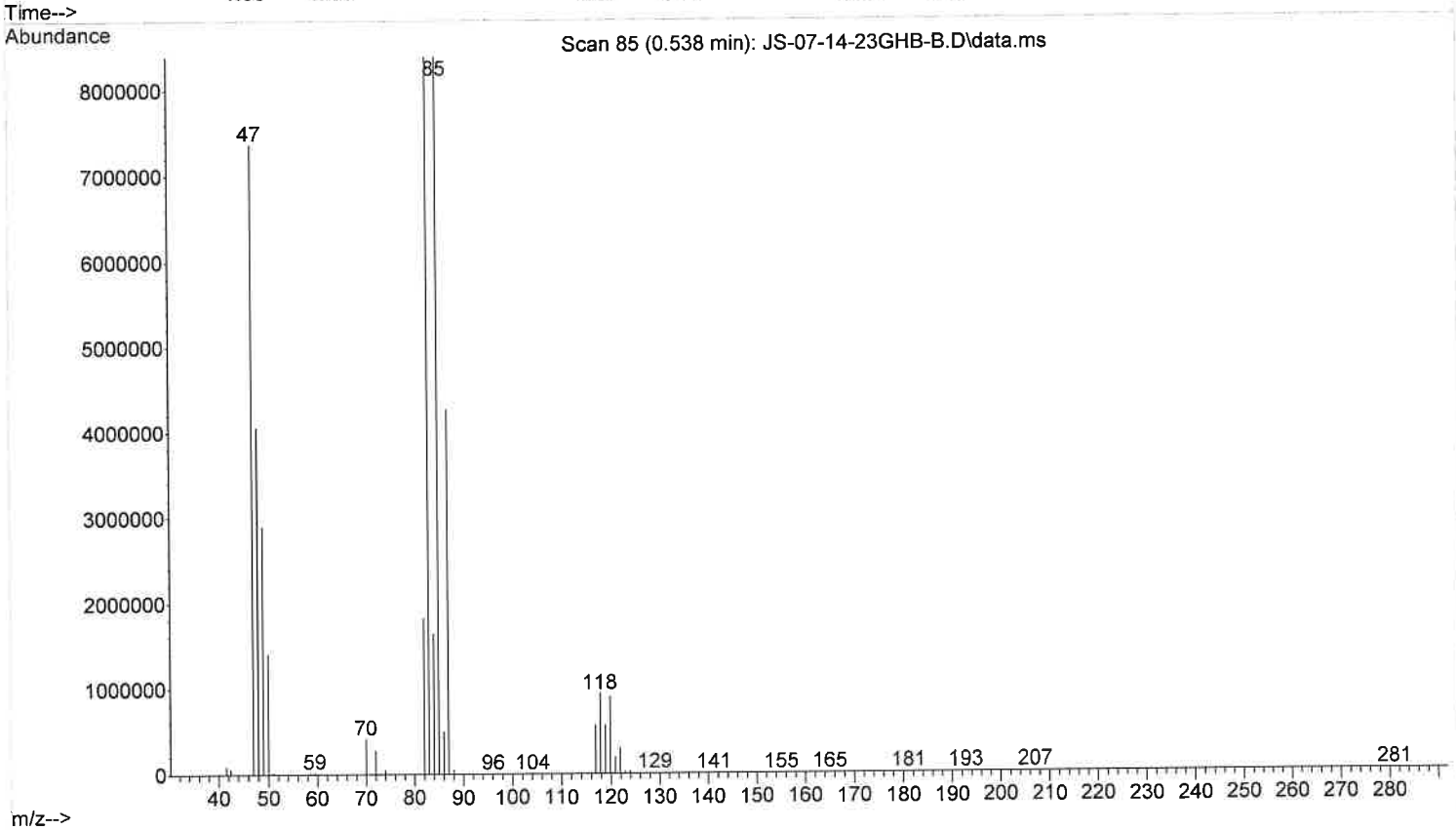
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23GHB-B.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 13:23 using AcqMethod GHB.M
Sample Name: GHB STD BLANK
Misc Info : MeOH



File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23GHB-B.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 13:23 using AcqMethod GHB.M
Sample Name: GHB STD BLANK
Misc Info : MeOH



METHOD CONTROL PARAMETERS

Method Information for: C:\MassHunter\GCMS\1\methods\LOWCON.M

Method Sections To Run:

( ) Save Copy of Method With Data
( ) Instrument Control Pre-Run Cmd/Macro =
( ) Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
(X) Data Analysis
( ) Instrument Control Post-Run Cmd/Macro =
( ) Data Analysis Post-Run Cmd/Macro =

Method Comments:
This is the default method

END OF METHOD CONTROL PARAMETERS

INSTRUMENT CONTROL PARAMETERS: Dobby

C:\MassHunter\GCMS\1\methods\LOWCON.M
Mon Jul 17 11:36:08 2023

Control Information

| | |
|---|---|
| Sample Inlet | : GC |
| Injection Source | : GC ALS |
| Injection Location: | Front |
| Mass Spectrometer | : Enabled |

No Sample Prep method has been assigned to this method.

| | |
|---|---|
| GC | |
| GC Summary | |
| Run Time | 14.667 min |
| Post Run Time | 0 min |
| Oven | |
| Temperature | |
| Setpoint | On |
| (Initial) | 80 °C |
| Hold Time | 2 min |
| Post Run | 50 °C |
| Program | |
| #1 Rate | 30 °C/min |
| #1 Value | 280 °C |
| #1 Hold Time | 6 min |
| Equilibration Time | 0.5 min |
| Max Temperature | 325 °C |
| Maximum Temperature Override | Disabled |
| Slow Fan | Disabled |
| ALS | |
| Front Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |

| | |
|---|---|
| Solvent Wash Mode | A, B |
| | |
| Back Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Sample Overlap | |
| Mode | Sample overlap is not enabled |
| | |
| ALS Errors | Pause for user interaction |
| | |
| Front SS Inlet He | |
| Mode | Splitless |
| Heater | On 250 °C |
| Pressure | On 9.1608 psi |
| Total Flow | On 46.7 mL/min |
| Septum Purge Flow | On 3 mL/min |
| Septum Purge Flow Mode | Standard |
| Gas Saver | On 20 After 2 min mL/min |
| Purge Flow to Split Vent | 42.7 mL/min at 1 min |
| Liner | Agilent 5190-2270: 900 µL (Splitless, single taper, deacti |
| | |
| Back SS Inlet He | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Mode | Split |
| Heater | Off |
| Pressure | Off |
| Total Flow | Off |
| Septum Purge Flow | Off |
| Gas Saver | Off |
| Split Ratio | 1 :1 |
| Split Flow | 0 mL/min |
| Liner | A Liner has not been selected. |
| | |
| Thermal Aux 2 (MSD Transfer Line) | |
| Temperature | |
| Setpoint | On |
| (Initial) | 280 °C |

Column
Column #1
Flow

| | |
|---|---|
| Setpoint | On |
| (Initial) | 1 mL/min |
| Post Run | 1.0812 mL/min |
| | |
| Column Information | Agilent 128-0112 |
| DB-1ms | |
| Temperature Range | -60 °C—340 °C (350 °C) |
| Dimensions | 12 m x 200 µm x 0.33 µm |
| Column lock | Unlocked |
| In | Front SS Inlet He |
| Out | MSD |
| (Initial) | 80 °C |
| Pressure | 9.1608 psi |
| Flow | 1 mL/min |
| Average Velocity | 58.448 cm/sec |
| Holdup Time | 0.34218 min |
| Control Mode | Constant Flow |
| | |
| Column #2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 0 psi |
| Post Run | 0 psi |
| | |
| Column Information | Agilent 19091Z-211 |
| HP-1 | |
| Temperature Range | -60 °C—325 °C (350 °C) |
| Dimensions | 15 m x 320 µm x 1 µm |
| Column lock | Unlocked |
| In | Back SS Inlet He |
| Out | Front Detector FID |
| (Initial) | 80 °C |
| Pressure | 0 psi |
| Flow | 0 mL/min |
| Average Velocity | 0 cm/sec |
| Holdup Time | ∞ min |
| Control Mode | Constant Pressure |
| | |
| Column Outlet Pressure | 0 psi |
| | |
| Front Detector FID | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Makeup | N2 |
| Heater | Off |
| H2 Flow | Off |
| Air Flow | Off |
| Makeup Flow | Off |
| Carrier Gas Flow Correction | Constant Makeup and Fuel Flow |
| Flame | Off |
| | |
| Aux EPC 1,2,3 | |
| Aux EPC 1 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| | |
| Aux EPC 2 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |

| | |
|---|---|
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Aux EPC 3 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

Signals

| | |
|---|---|
| Signal #1: Test Plot | |
| Description | Test Plot |
| Save | Off |
| Data Rate | 50 Hz |
| Dual Injection Assignment | Front Sample |
| Signal #2: | |
| Description | None |
| Signal #3: | |
| Description | None |
| Signal #4: | |
| Description | None |

TUNE PARAMETERS for SN: US1439L407

Trace Ion Detection is OFF.

| | | |
|---|---|---|
| 34.593 | : | EMISSION |
| 70.007 | : | ENERGY |
| 34.899 | : | REPELLER |
| 90.331 | : | IONFOCUS |
| 20.181 | : | ENTRANCE_LENS |
| 963.560 | : | EMVOLTS |
| 1151.3 | : | Actual EMV |
| 2.60 | : | GAIN FACTOR |
| 1322.000 | : | AMUGAIN |
| 123.750 | : | AMUOFFSET |
| 1.000 | : | FILAMENT |
| 0.000 | : | DCPOLARITY |
| 15.312 | : | ENTLENSOFFSET |
| 0.000 | : | Ion_Body |
| 0.000 | : | EXTLENS |
| -468.000 | : | MASSGAIN |
| -36.000 | : | MASSOFFSET |

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\MassHunter\GCMS\1\methods\LOWCON.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen:  No
    Printer: Yes
    File:    No

Integration Events: AutoIntegrate

Generate Report During Run Method:  No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

| Library to Search | Minimum Quality |
|---|---|
| DEMO.L | 0 |

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination
    Screen:  No
    Printer: Yes
    File:    No

Generate Report During Run Method:  No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

Calibration Last Updated:

Reference Window: 10.00 Percent
Non-Reference Window: 5.00 Percent
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Mon Jul 17 11:36:13 2023

# Single Quadrupole Acquisition Method - MS Parameters Report

| | |
|---|---|
| **Method file** | C:\MassHunter\GCMS\1\methods\LOWCON.M |
| **Tune file** | ATUNE.U |
| **Ion source** | EI |
| **Source temperature (°C)** | 230 |
| **Quad temperature (°C)** | 150 |
| **Fixed Electron energy (eV)** | 70.0 |
| **Acquisition Type** | Scan |
| **Stop time (min)** | 10.00 |
| **Solvent delay (min)** | 2.50 |
| **Trace Ion Detection** | False |
| **Gain Factor** | 2.6 |
| **EM Saver** | False |
| **EM Saver Limit** | N/A |

**Scan Time Segments**

| Time | Start Mass | End Mass | Threshold | Scan Speed |
|---|---|---|---|---|
| 2.50 | 40 | 425 | 150 | 1,562 [N=2] |

**Timed Events**

| Time | Type of Event | Parameter |
|---|---|---|

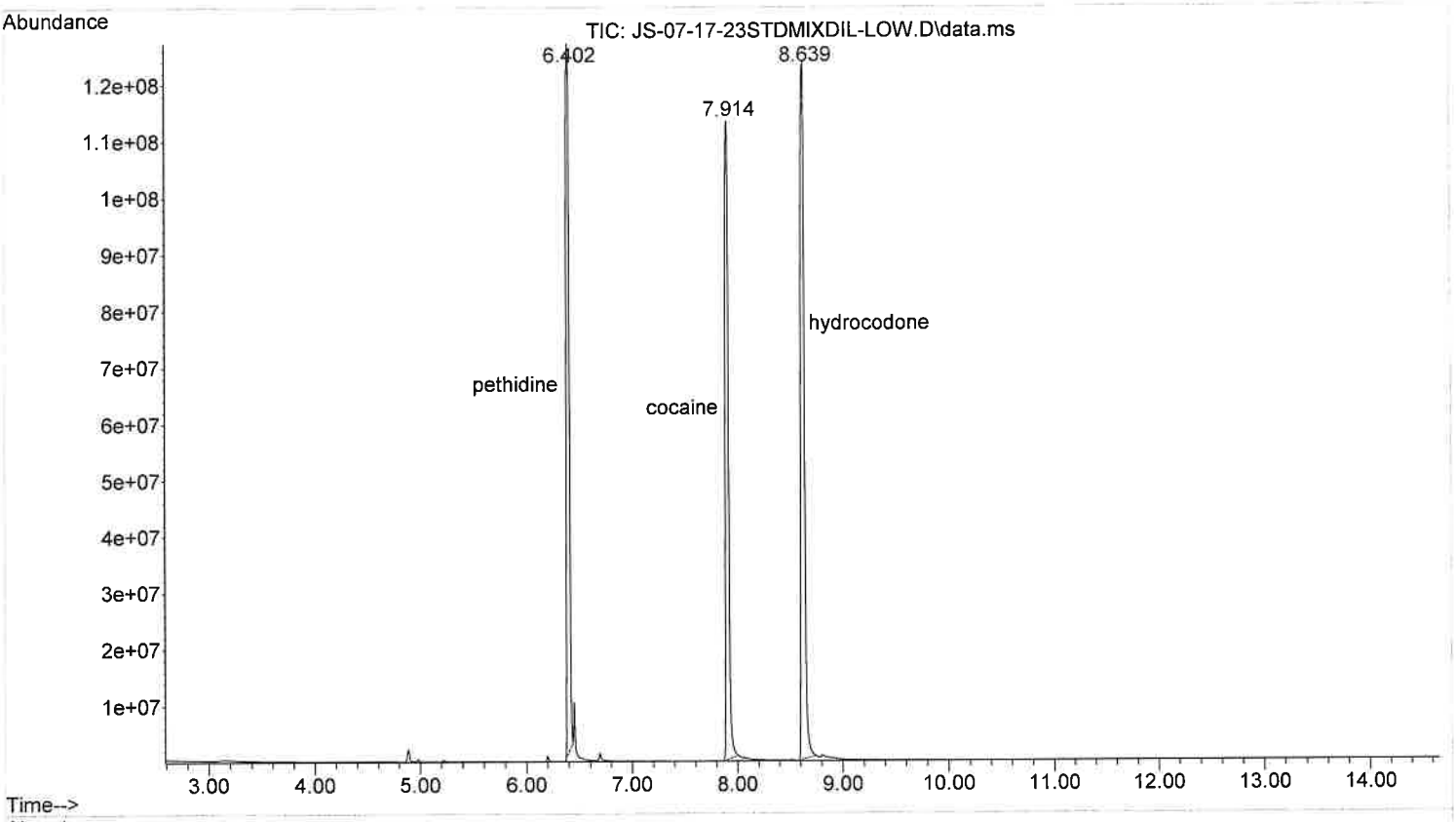
**Real-Time Plots**

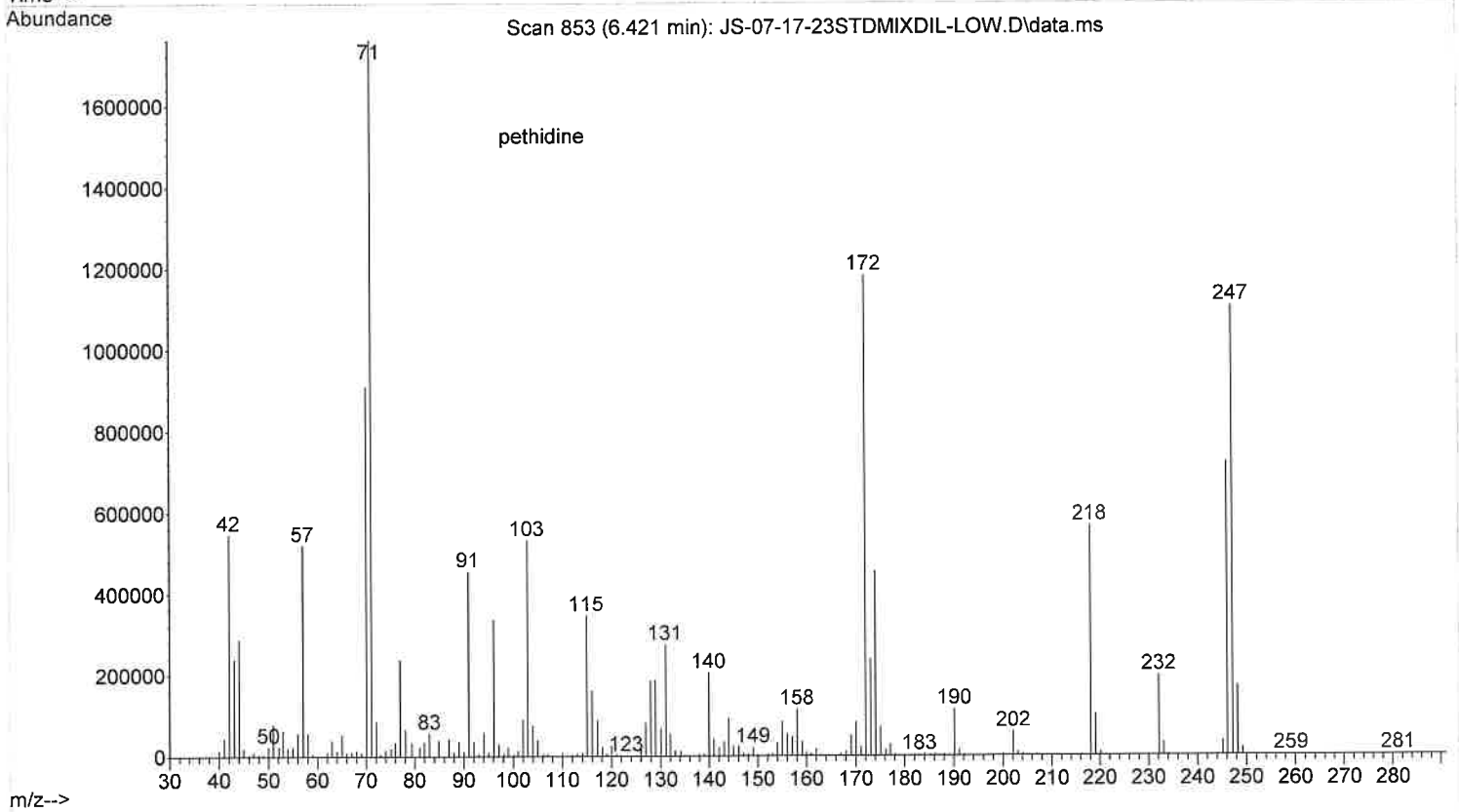
| Type of Plot | Label | Low Mass | High Mass |
|---|---|---|---|
| Total Ion | N/A | N/A | N/A |
| Spectrum | N/A | N/A | N/A |
| Extracted Ion | Scan 1-1 | 50 | 550 |
| Extracted Ion | Scan 1-2 | 40 | 550 |

**Self-Cleaning Ion Source Parameters**

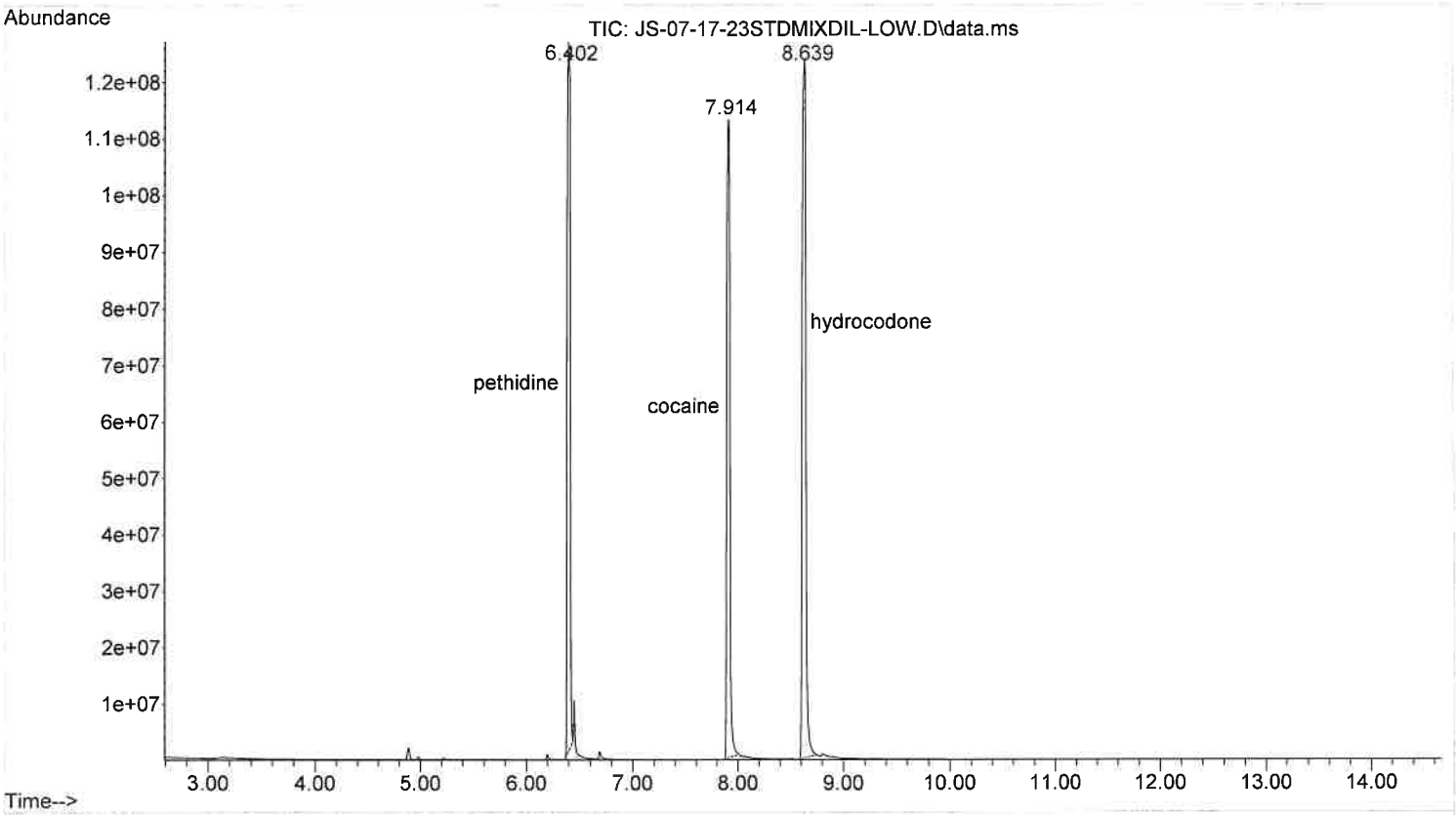
| | |
|---|---|
| Mode | No Cleaning |

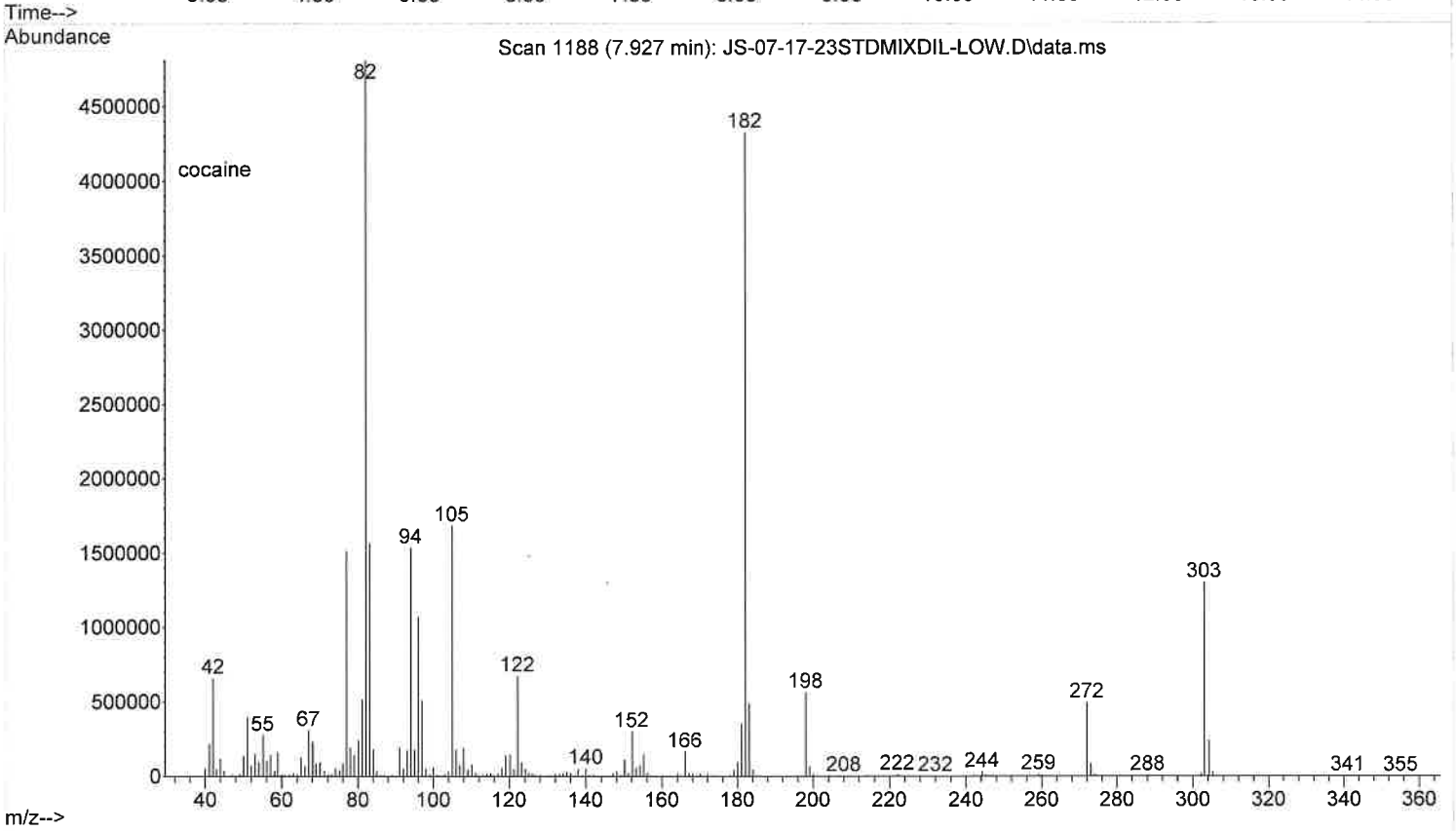
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-17-23\JS-07-17-23STDMIXDIL-LOW.D
Operator : Dobby
Instrument : Dobby
Acquired : 17 Jul 2023 09:19 using AcqMethod LOWCON.M
Sample Name: STD MIX DILUTED
Misc Info : CHCl3



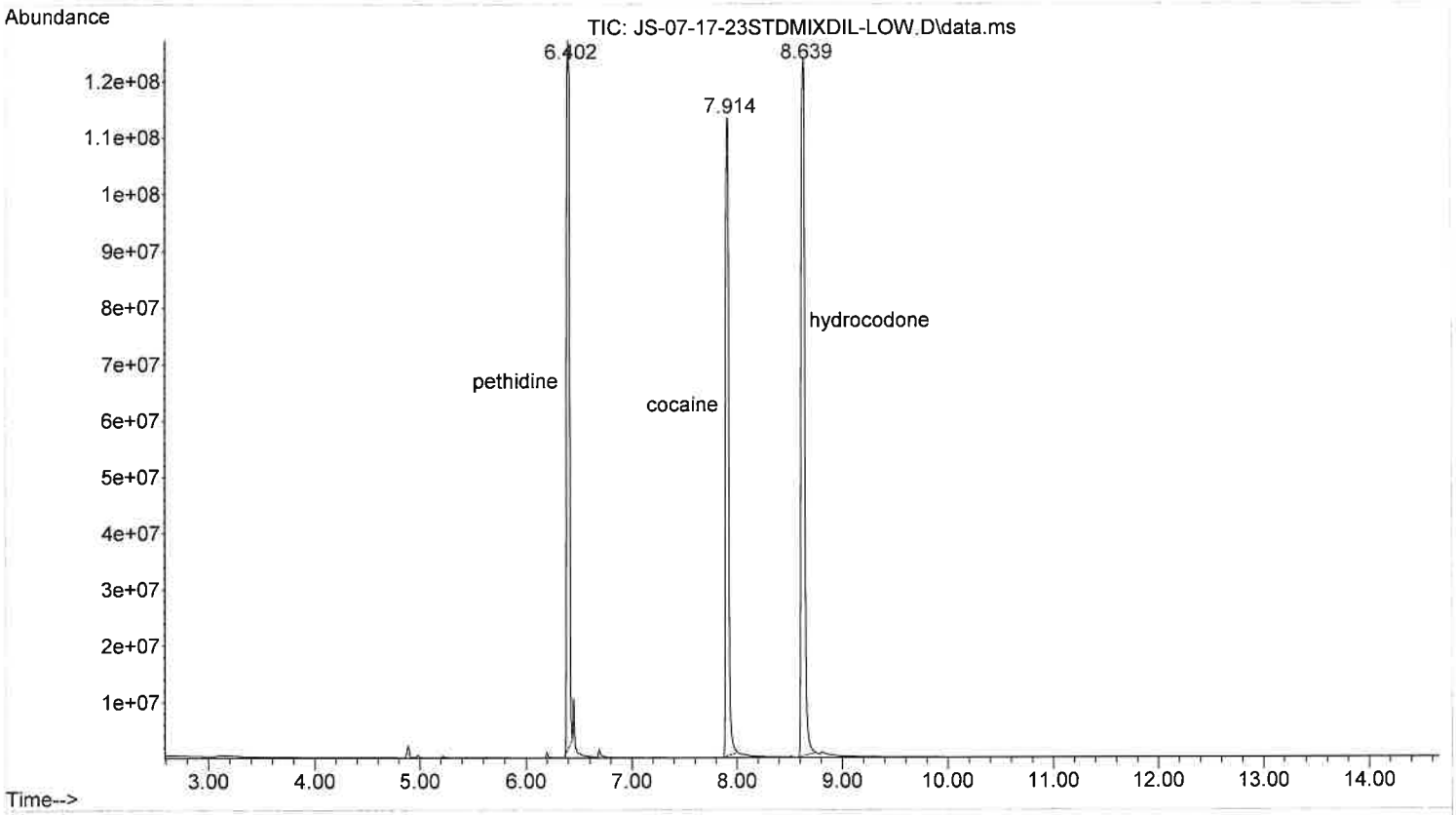



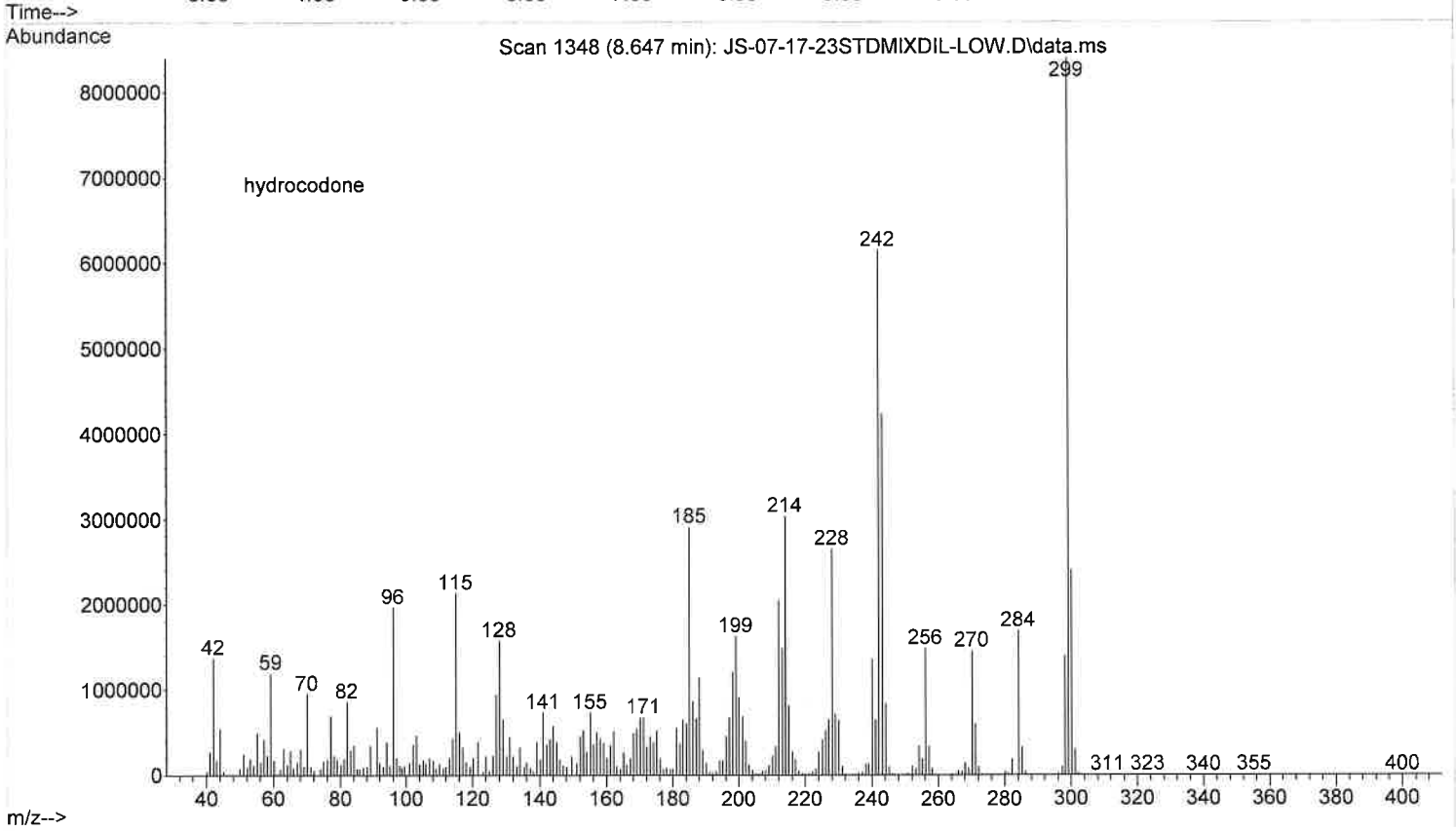
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-17-23\JS-07-17-23STDMIXDIL-LOW.D
Operator : Dobby
Instrument : Dobby
Acquired : 17 Jul 2023 09:19 using AcqMethod LOWCON.M
Sample Name: STD MIX DILUTED
Misc Info : CHCl3



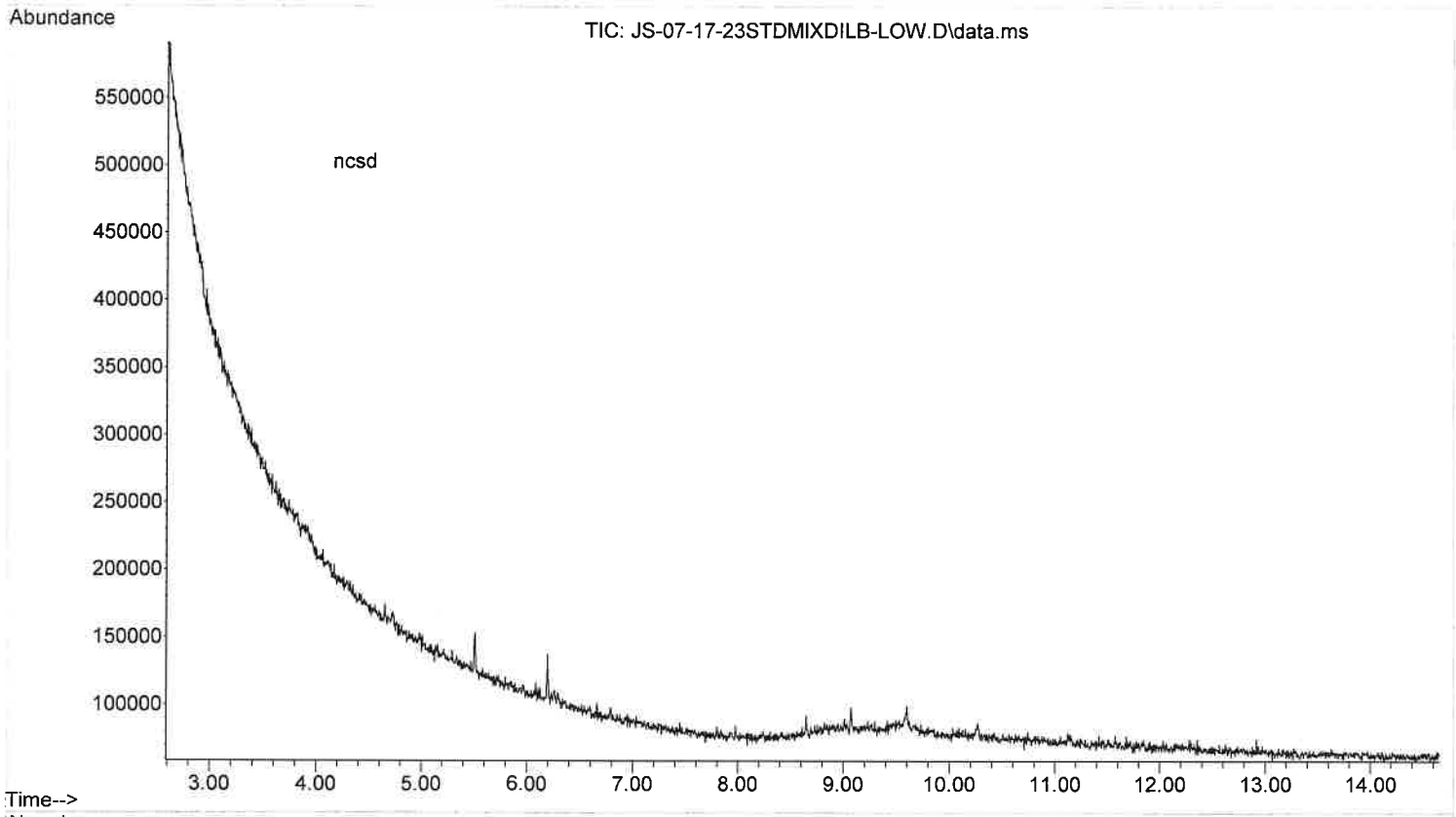



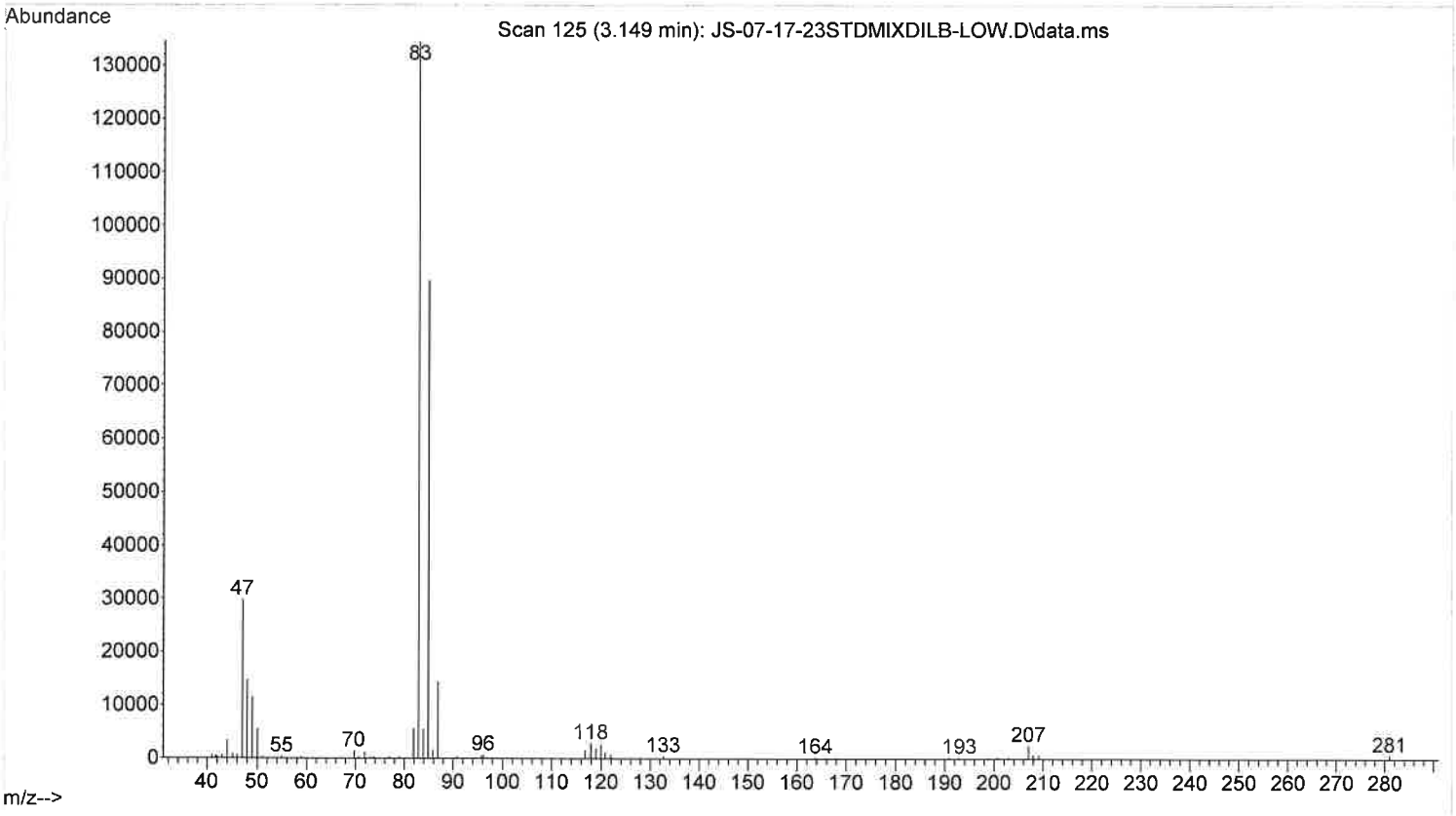
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-17-23\JS-07-17-23STDMIXDIL-LOW.D
Operator : Dobby
Instrument : Dobby
Acquired : 17 Jul 2023 09:19 using AcqMethod LOWCON.M
Sample Name: STD MIX DILUTED
Misc Info : CHCl3



File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-17-23\JS-07-17-23STDMIXDILB-LOW.D
Operator : Dobby
Instrument : Dobby
Acquired : 17 Jul 2023 09:01 using AcqMethod LOWCON.M
Sample Name: STD MIX DILUTED BLANK
Misc Info : CHCl3



METHOD CONTROL PARAMETERS

Method Information for: C:\MassHunter\GCMS\1\methods\OPIATE.M

Method Sections To Run:

( ) Save Copy of Method With Data
( ) Instrument Control Pre-Run Cmd/Macro =
( ) Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
(X) Data Analysis
( ) Instrument Control Post-Run Cmd/Macro =
( ) Data Analysis Post-Run Cmd/Macro =

Method Comments:
This is the default method

END OF METHOD CONTROL PARAMETERS

INSTRUMENT CONTROL PARAMETERS: Dobby

C:\MassHunter\GCMS\1\methods\OPIATE.M
Mon Jul 17 11:37:03 2023

Control Information

| | |
|---|---|
| Sample Inlet | : GC |
| Injection Source | : GC ALS |
| Injection Location: | Front |
| Mass Spectrometer | : Enabled |

No Sample Prep method has been assigned to this method.

GC

| | |
|---|---|
| GC Summary | |
| Run Time | 6.6667 min |
| Post Run Time | 0 min |
| Oven | |
| Temperature | |
| Setpoint | On |
| (Initial) | 200 °C |
| Hold Time | 1 min |
| Post Run | 50 °C |
| Program | |
| #1 Rate | 30 °C/min |
| #1 Value | 280 °C |
| #1 Hold Time | 3 min |
| Equilibration Time | 0 min |
| Max Temperature | 325 °C |
| Maximum Temperature Override | Disabled |
| Slow Fan | Disabled |

ALS

| | |
|---|---|
| Front Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |

| | |
|---|---|
| Solvent Wash Mode | A, B |
| Back Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| Sample Overlap | |
| Mode | Sample overlap is not enabled |
| ALS Errors | Pause for user interaction |
| Front SS Inlet He | |
| Mode | Split |
| Heater | On 250 °C |
| Pressure | On 15.806 psi |
| Total Flow | On 94 mL/min |
| Septum Purge Flow | On 3 mL/min |
| Gas Saver | On 20 After 2 min mL/min |
| Split Ratio | 90.00000001 :1 |
| Split Flow | 90 mL/min |
| Liner | Agilent 5190-2270: 900 µL (Splitless, single taper, deacti |
| Back SS Inlet He | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Mode | Split |
| Heater | Off |
| Pressure | Off |
| Total Flow | Off |
| Septum Purge Flow | Off |
| Gas Saver | Off |
| Split Ratio | 1 :1 |
| Split Flow | 0 mL/min |
| Liner | A Liner has not been selected. |
| Thermal Aux 2 (MSD Transfer Line) | |
| Temperature | |
| Setpoint | On |
| (Initial) | 280 °C |

Column
Column #1
Flow

| | |
|---|---|
| Setpoint | On |
| (Initial) | 1 mL/min |
| Post Run | 1.0812 mL/min |
| | |
| Column Information | Agilent 128-0112 |
| DB-1ms | |
| Temperature Range | -60 °C—340 °C (350 °C) |
| Dimensions | 12 m x 200 µm x 0.33 µm |
| Column lock | Unlocked |
| In | Front SS Inlet He |
| Out | MSD |
| (Initial) | 200 °C |
| Pressure | 15.806 psi |
| Flow | 1 mL/min |
| Average Velocity | 61.249 cm/sec |
| Holdup Time | 0.32654 min |
| Control Mode | Constant Flow |
| | |
| Column #2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 0 psi |
| Post Run | 0 psi |
| | |
| Column Information | Agilent 19091Z-211 |
| HP-1 | |
| Temperature Range | -60 °C—325 °C (350 °C) |
| Dimensions | 15 m x 320 µm x 1 µm |
| Column lock | Unlocked |
| In | Back SS Inlet He |
| Out | Front Detector FID |
| (Initial) | 200 °C |
| Pressure | 0 psi |
| Flow | 0 mL/min |
| Average Velocity | 0 cm/sec |
| Holdup Time | ∞ min |
| Control Mode | Constant Pressure |
| | |
| Column Outlet Pressure | 0 psi |
| | |
| Front Detector FID | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Makeup | N2 |
| Heater | Off |
| H2 Flow | Off |
| Air Flow | Off |
| Makeup Flow | Off |
| Carrier Gas Flow Correction | Constant Makeup and Fuel Flow |
| Flame | Off |
| | |
| Aux EPC 1,2,3 | |
| Aux EPC 1 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| | |
| Aux EPC 2 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |

| | |
|---|---|
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Aux EPC 3 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

Signals
Signal #1: Test Plot

| | |
|---|---|
| Description | Test Plot |
| Save | Off |
| Data Rate | 50 Hz |
| Dual Injection Assignment | Front Sample |
| Signal #2: | |
| Description | None |
| Signal #3: | |
| Description | None |
| Signal #4: | |
| Description | None |

TUNE PARAMETERS for SN: US1439L407

Trace Ion Detection is OFF.

| | | | |
|---|---|---|---|
| 34.593 | : | EMISSION | |
| 70.007 | : | ENERGY | |
| 34.899 | : | REPELLER | |
| 90.331 | : | IONFOCUS | |
| 20.181 | : | ENTRANCE_LENS | |
| 963.560 | : | EMVOLTS | |
| | | 1151.3 | : Actual EMV |
| | | 2.60 | : GAIN FACTOR |
| 1322.000 | : | AMUGAIN | |
| 123.750 | : | AMUOFFSET | |
| 1.000 | : | FILAMENT | |
| 0.000 | : | DCPOLARITY | |
| 15.312 | : | ENTLENSOFFSET | |
| 0.000 | : | Ion_Body | |
| 0.000 | : | EXTLENS | |
| -468.000 | : | MASSGAIN | |
| -36.000 | : | MASSOFFSET | |

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\MassHunter\GCMS\1\methods\OPIATE.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen:  No
    Printer: Yes
    File:    No

Integration Events: AutoIntegrate

Generate Report During Run Method:  No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

| Library to Search | Minimum Quality |
|---|---|
| DEMO.L | 0 |

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination
    Screen:  No
    Printer: Yes
    File:    No

Generate Report During Run Method:  No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

Calibration Last Updated:

Reference Window: 10.00 Percent
Non-Reference Window: 5.00 Percent
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Mon Jul 17 11:37:08 2023

# Single Quadrupole Acquisition Method - MS Parameters Report

| | |
|---|---|
| **Method file** | C:\MassHunter\GCMS\1\methods\OPIATE.M |
| **Tune file** | ATUNE.U |
| **Ion source** | EI |
| **Source temperature (°C)** | 230 |
| **Quad temperature (°C)** | 150 |
| **Fixed Electron energy (eV)** | 70.0 |
| **Acquisition Type** | Scan |
| **Stop time (min)** | 10.00 |
| **Solvent delay (min)** | 2.50 |
| **Trace Ion Detection** | False |
| **Gain Factor** | 2.6 |
| **EM Saver** | False |
| **EM Saver Limit** | N/A |

**Scan Time Segments**

| Time | Start Mass | End Mass | Threshold | Scan Speed |
|---|---|---|---|---|
| 2.50 | 40 | 500 | 150 | 1,562 [N=2] |

**Timed Events**

| Time | Type of Event | Parameter |
|---|---|---|

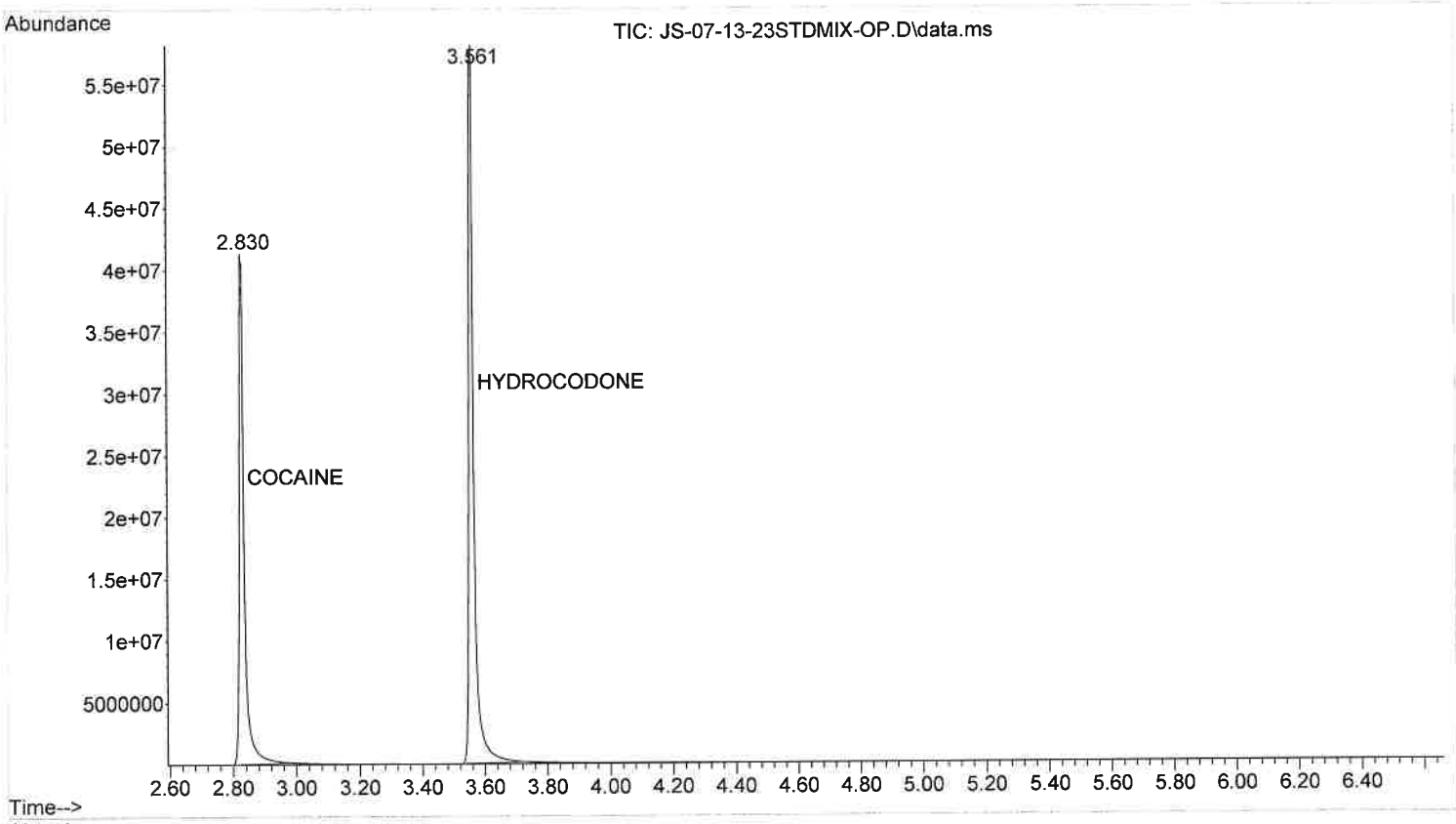
**Real-Time Plots**

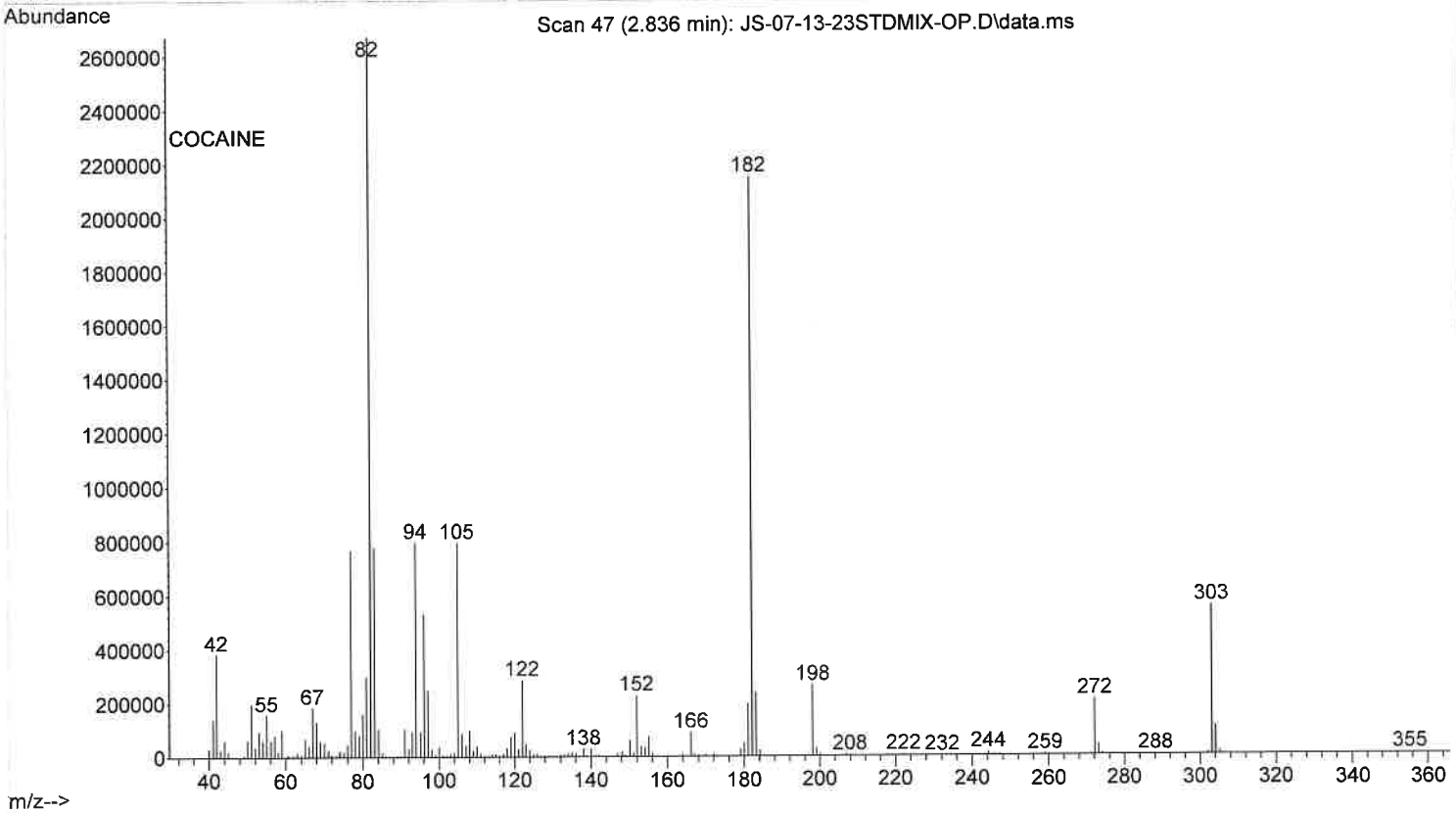
| Type of Plot | Label | Low Mass | High Mass |
|---|---|---|---|
| Total Ion | N/A | N/A | N/A |
| Spectrum | N/A | N/A | N/A |
| Extracted Ion | Scan 1-1 | 50 | 550 |
| Extracted Ion | Scan 1-2 | 40 | 550 |

**Self-Cleaning Ion Source Parameters**

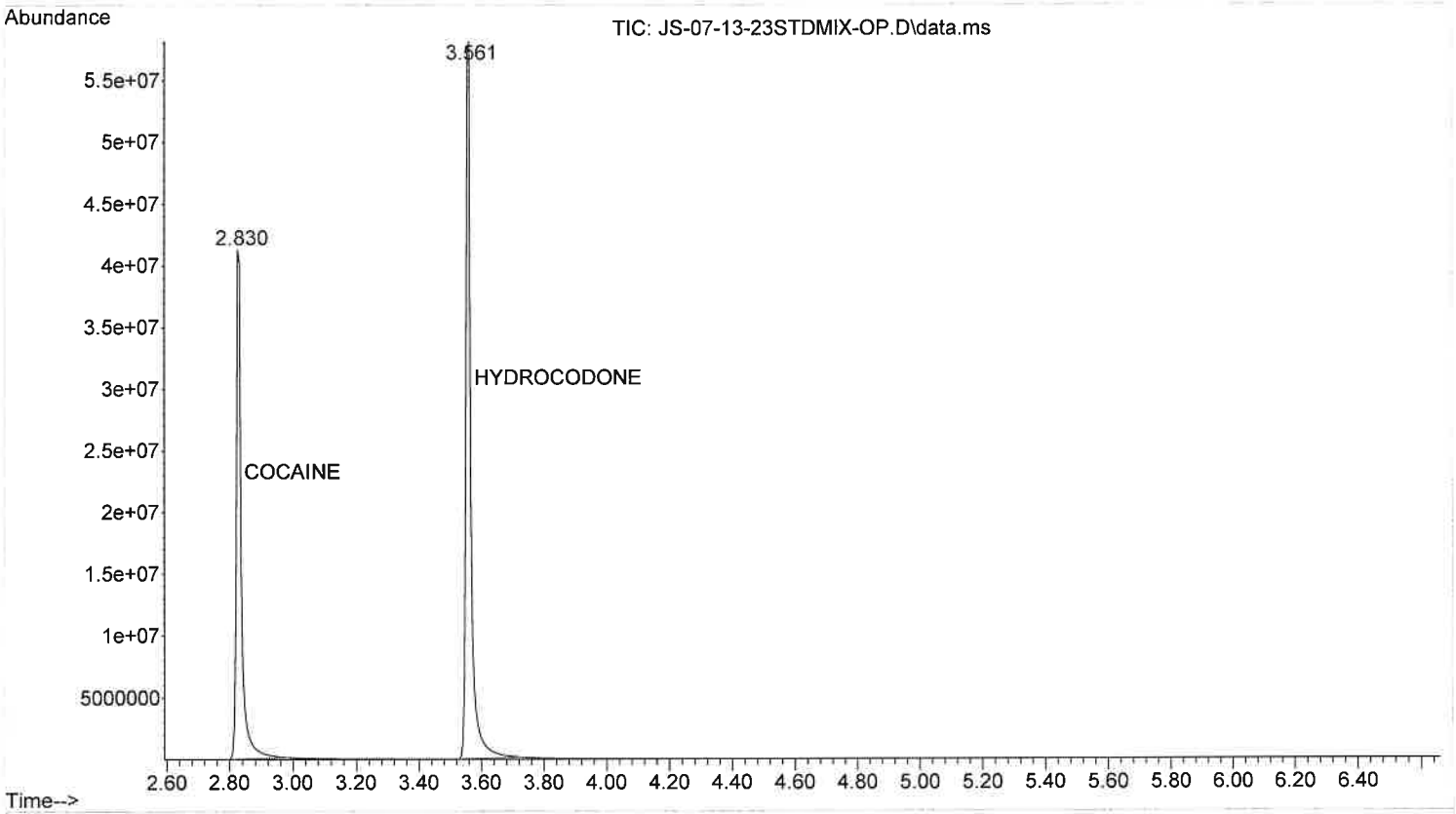
| | |
|---|---|
| Mode | No Cleaning |

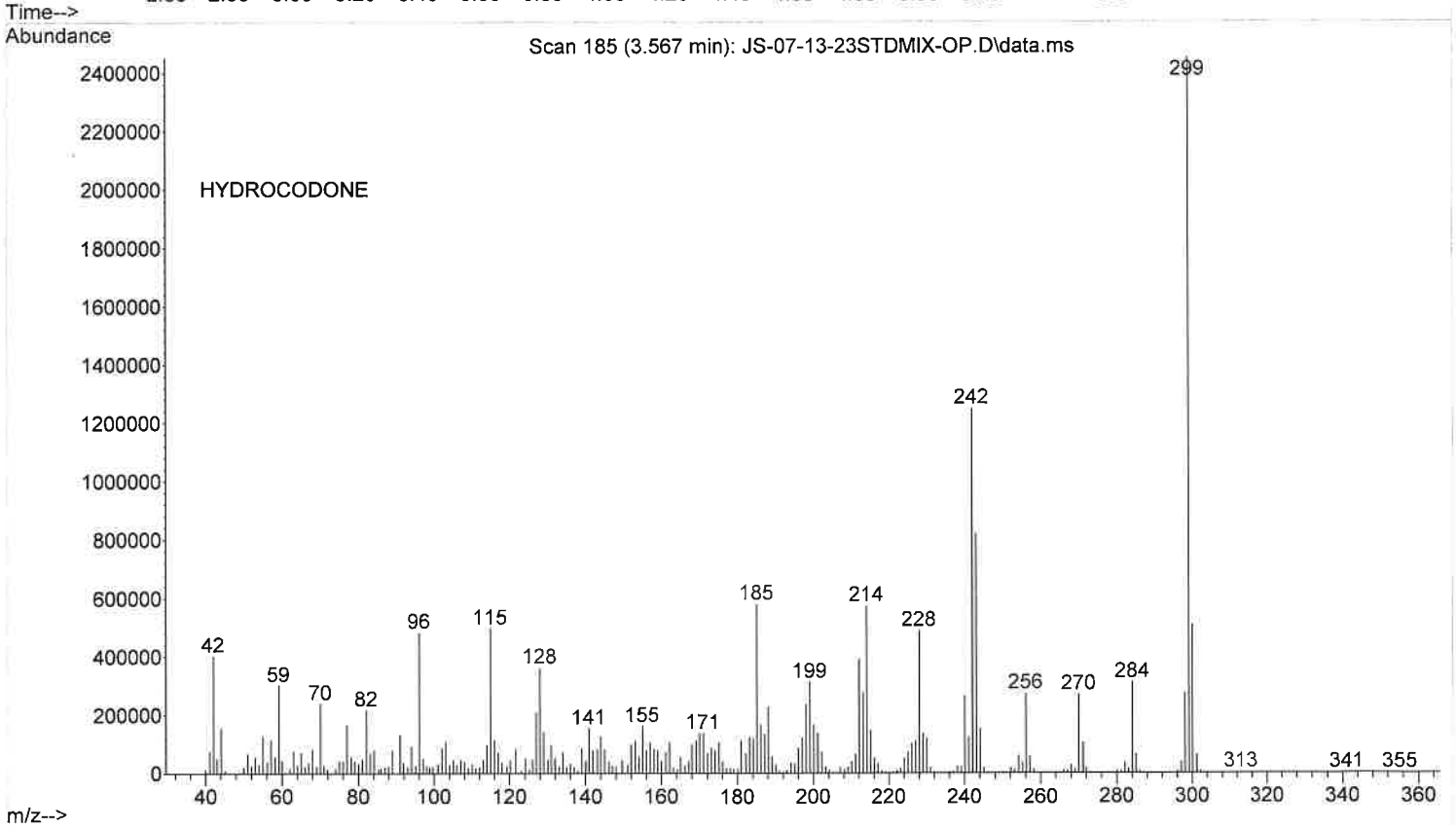
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23STDMIX-OP.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 15:22 using AcqMethod OPIATE.M
Sample Name: STD MIX
Misc Info : CHCl3



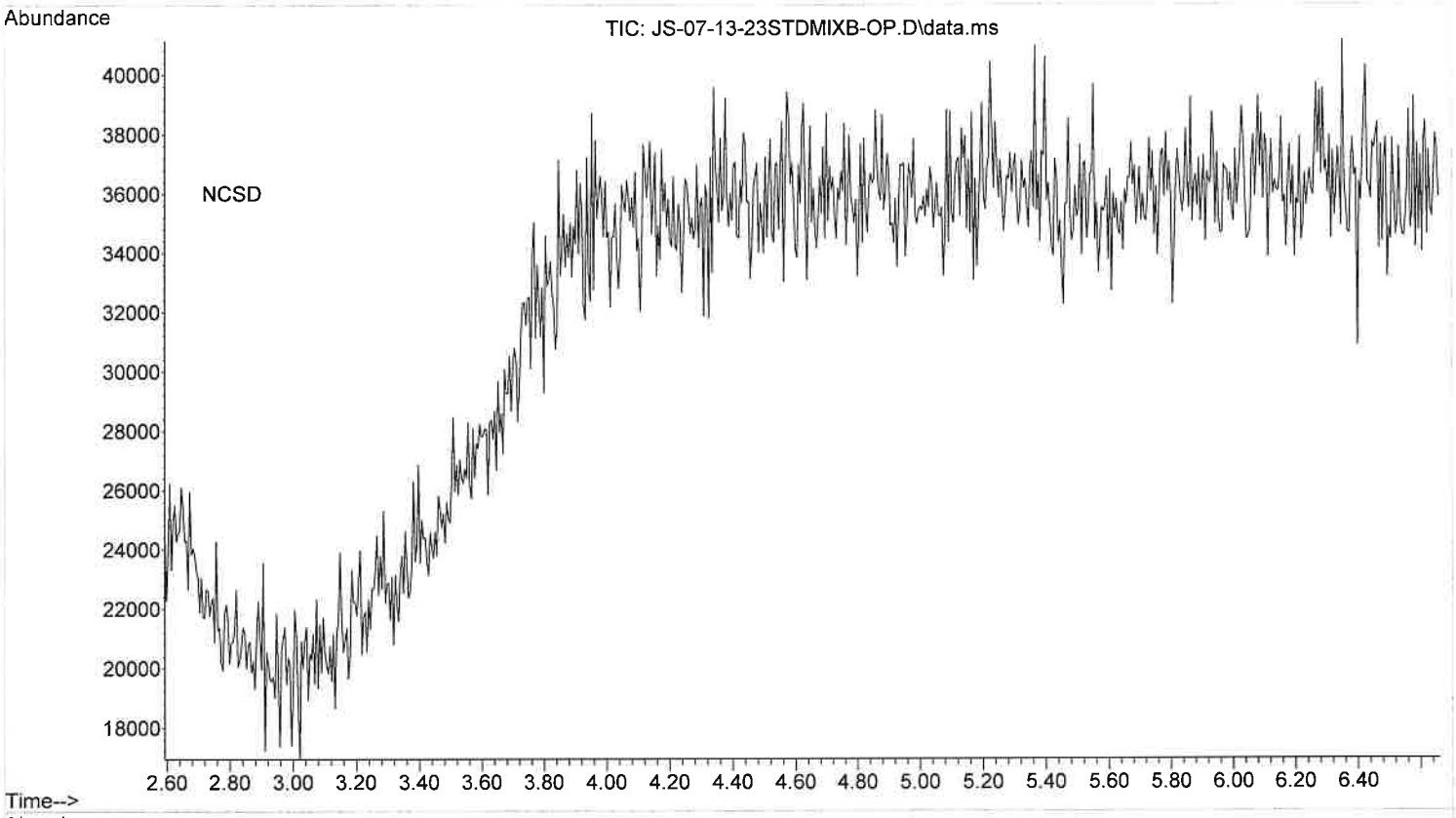



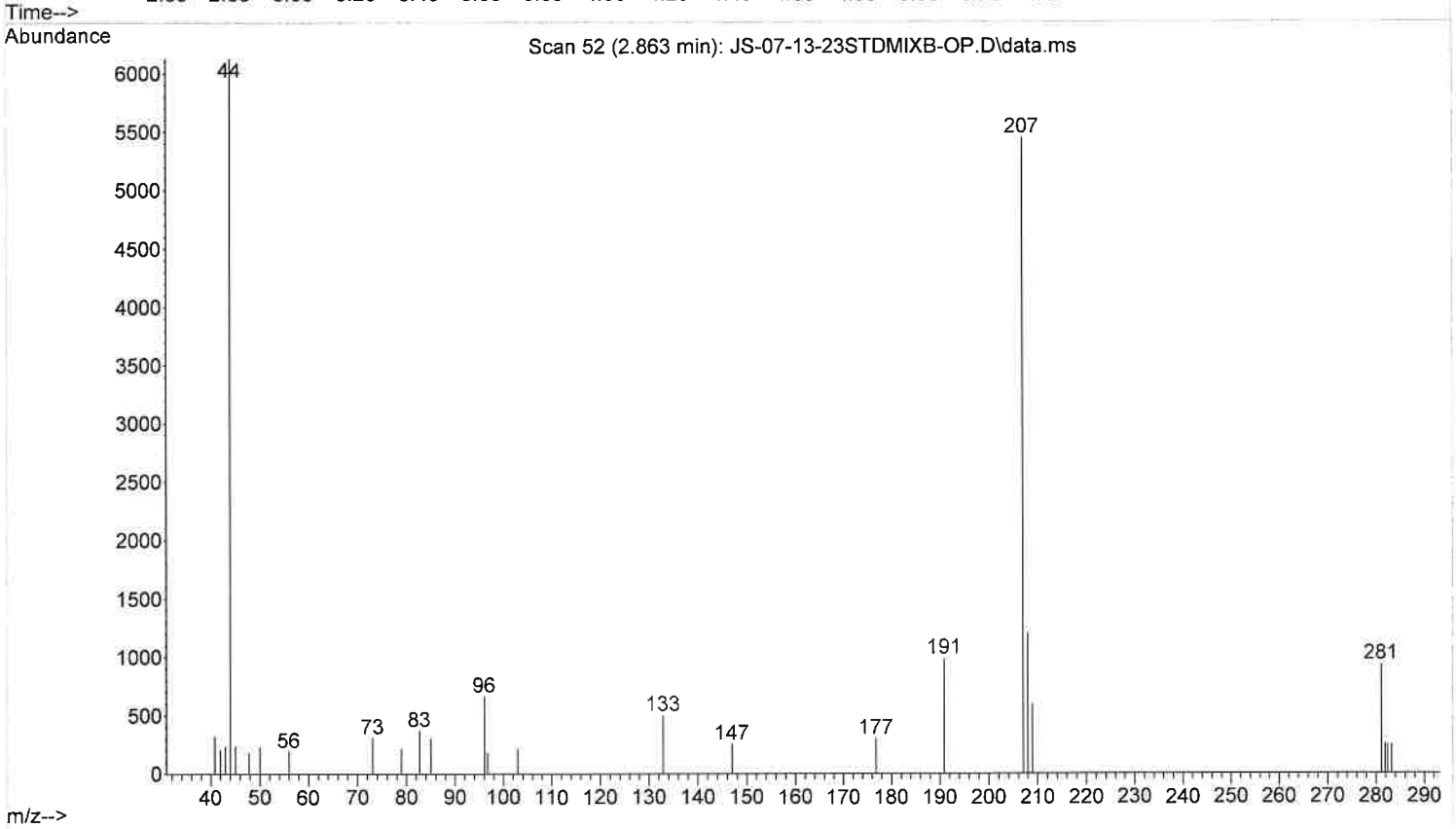
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23STDMIX-OP.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 15:22 using AcqMethod OPIATE.M
Sample Name: STD MIX
Misc Info : CHCl3



File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23STDMIXB-OP.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 15:13 using AcqMethod OPIATE.M
Sample Name: STD MIX BLANK
Misc Info : CHCl3



METHOD CONTROL PARAMETERS

Method Information for: C:\MassHunter\GCMS\1\methods\STEROID.M

Method Sections To Run:

( ) Save Copy of Method With Data
( ) Instrument Control Pre-Run Cmd/Macro =
( ) Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
(X) Data Analysis
( ) Instrument Control Post-Run Cmd/Macro =
( ) Data Analysis Post-Run Cmd/Macro =

Method Comments:
This is the default method

END OF METHOD CONTROL PARAMETERS

INSTRUMENT CONTROL PARAMETERS: Dobby

C:\MassHunter\GCMS\1\methods\STEROID.M
Mon Jul 17 11:38:01 2023

Control Information

| | |
|---|---|
| Sample Inlet | : GC |
| Injection Source | : GC ALS |
| Injection Location: | Front |
| Mass Spectrometer | : Enabled |

No Sample Prep method has been assigned to this method.

GC

GC Summary

| | |
|---|---|
| Run Time | 20 min |
| Post Run Time | 0 min |

Oven

| | |
|---|---|
| Temperature | |
| Setpoint | On |
| (Initial) | 70 °C |
| Hold Time | 1 min |
| Post Run | 50 °C |
| Program | |
| #1 Rate | 30 °C/min |
| #1 Value | 280 °C |
| #1 Hold Time | 12 min |

| | |
|---|---|
| Equilibration Time | 0.5 min |
| Max Temperature | 325 °C |
| Maximum Temperature Override | Disabled |
| Slow Fan | Disabled |

ALS

| | |
|---|---|
| Front Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |

| | |
|---|---|
| Solvent Wash Mode | A, B |
| | |
| Back Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Sample Overlap | |
| Mode | Sample overlap is not enabled |
| | |
| ALS Errors | Pause for user interaction |
| | |
| Front SS Inlet He | |
| Mode | Split |
| Heater | On 250 °C |
| Pressure | On 8.592 psi |
| Total Flow | On 46 mL/min |
| Septum Purge Flow | Off |
| Gas Saver | On 20 After 2 min mL/min |
| Split Ratio | 45 :1 |
| Split Flow | 45 mL/min |
| Liner | Agilent 5190-2270: 900 µL (Splitless, single taper, deacti |
| | |
| Back SS Inlet He | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Mode | Split |
| Heater | Off |
| Pressure | Off |
| Total Flow | Off |
| Septum Purge Flow | Off |
| Gas Saver | Off |
| Split Ratio | 1 :1 |
| Split Flow | 0 mL/min |
| Liner | A Liner has not been selected. |
| | |
| Thermal Aux 2 (MSD Transfer Line) | |
| Temperature | |
| Setpoint | On |
| (Initial) | 280 °C |

Column
Column #1
Flow

| | |
|---|---|
| Setpoint | On |
| (Initial) | 1 mL/min |
| Post Run | 1.0812 mL/min |
| | |
| Column Information | Agilent 128-0112 |
| DB-1ms | |
| Temperature Range | -60 °C—340 °C (350 °C) |
| Dimensions | 12 m x 200 µm x 0.33 µm |
| Column lock | Unlocked |
| In | Front SS Inlet He |
| Out | MSD |
| (Initial) | 70 °C |
| Pressure | 8.592 psi |
| Flow | 1 mL/min |
| Average Velocity | 58.18 cm/sec |
| Holdup Time | 0.34376 min |
| Control Mode | Constant Flow |
| | |
| Column #2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 0 psi |
| Post Run | 0 psi |
| | |
| Column Information | Agilent 19091Z-211 |
| HP-1 | |
| Temperature Range | -60 °C—325 °C (350 °C) |
| Dimensions | 15 m x 320 µm x 1 µm |
| Column lock | Unlocked |
| In | Back SS Inlet He |
| Out | Front Detector FID |
| (Initial) | 70 °C |
| Pressure | 0 psi |
| Flow | 0 mL/min |
| Average Velocity | 0 cm/sec |
| Holdup Time | ∞ min |
| Control Mode | Constant Pressure |
| | |
| Column Outlet Pressure | 0 psi |
| | |
| Front Detector FID | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Makeup | N2 |
| Heater | Off |
| H2 Flow | Off |
| Air Flow | Off |
| Makeup Flow | Off |
| Carrier Gas Flow Correction | Constant Makeup and Fuel Flow |
| Flame | Off |
| | |
| Aux EPC 1,2,3 | |
| Aux EPC 1 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| | |
| Aux EPC 2 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |

| | |
|---|---|
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Aux EPC 3 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

Signals

| | |
|---|---|
| Signal #1: Test Plot | |
| Description | Test Plot |
| Save | Off |
| Data Rate | 50 Hz |
| Dual Injection Assignment | Front Sample |
| Signal #2: | |
| Description | None |
| Signal #3: | |
| Description | None |
| Signal #4: | |
| Description | None |

TUNE PARAMETERS for SN: US1439L407

Trace Ion Detection is OFF.

| | | | |
|---|---|---|---|
| 34.593 | : | EMISSION | |
| 70.007 | : | ENERGY | |
| 34.899 | : | REPELLER | |
| 90.331 | : | IONFOCUS | |
| 20.181 | : | ENTRANCE_LENS | |
| 963.560 | : | EMVOLTS | |
| | | 1151.3 | : Actual EMV |
| | | 2.60 | : GAIN FACTOR |
| 1322.000 | : | AMUGAIN | |
| 123.750 | : | AMUOFFSET | |
| 1.000 | : | FILAMENT | |
| 0.000 | : | DCPOLARITY | |
| 15.312 | : | ENTLENSOFFSET | |
| 0.000 | : | Ion_Body | |
| 0.000 | : | EXTLENS | |
| -468.000 | : | MASSGAIN | |
| -36.000 | : | MASSOFFSET | |

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\MassHunter\GCMS\1\methods\STEROID.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen:  No
    Printer: Yes
    File:    No

Integration Events: AutoIntegrate

Generate Report During Run Method:  No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

| Library to Search | Minimum Quality |
|---|---|
| DEMO.L | 0 |

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination
    Screen:  No
    Printer: Yes
    File:    No

Generate Report During Run Method:  No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

Calibration Last Updated:

Reference Window: 10.00 Percent
Non-Reference Window: 5.00 Percent
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Mon Jul 17 11:38:07 2023

# Single Quadrupole Acquisition Method - MS Parameters Report

| | |
|---|---|
| **Method file** | C:\MassHunter\GCMS\1\methods\STEROID.M |
| **Tune file** | ATUNE.U |
| **Ion source** | EI |
| **Source temperature (°C)** | 230 |
| **Quad temperature (°C)** | 150 |
| **Fixed Electron energy (eV)** | 70.0 |
| **Acquisition Type** | Scan |
| **Stop time (min)** | 10.00 |
| **Solvent delay (min)** | 2.50 |
| **Trace Ion Detection** | False |
| **Gain Factor** | 2.6 |
| **EM Saver** | False |
| **EM Saver Limit** | N/A |

**Scan Time Segments**

| Time | Start Mass | End Mass | Threshold | Scan Speed |
|---|---|---|---|---|
| 2.50 | 40 | 550 | 150 | 1,562 [N=2] |

**Timed Events**

| Time | Type of Event | Parameter |
|---|---|---|

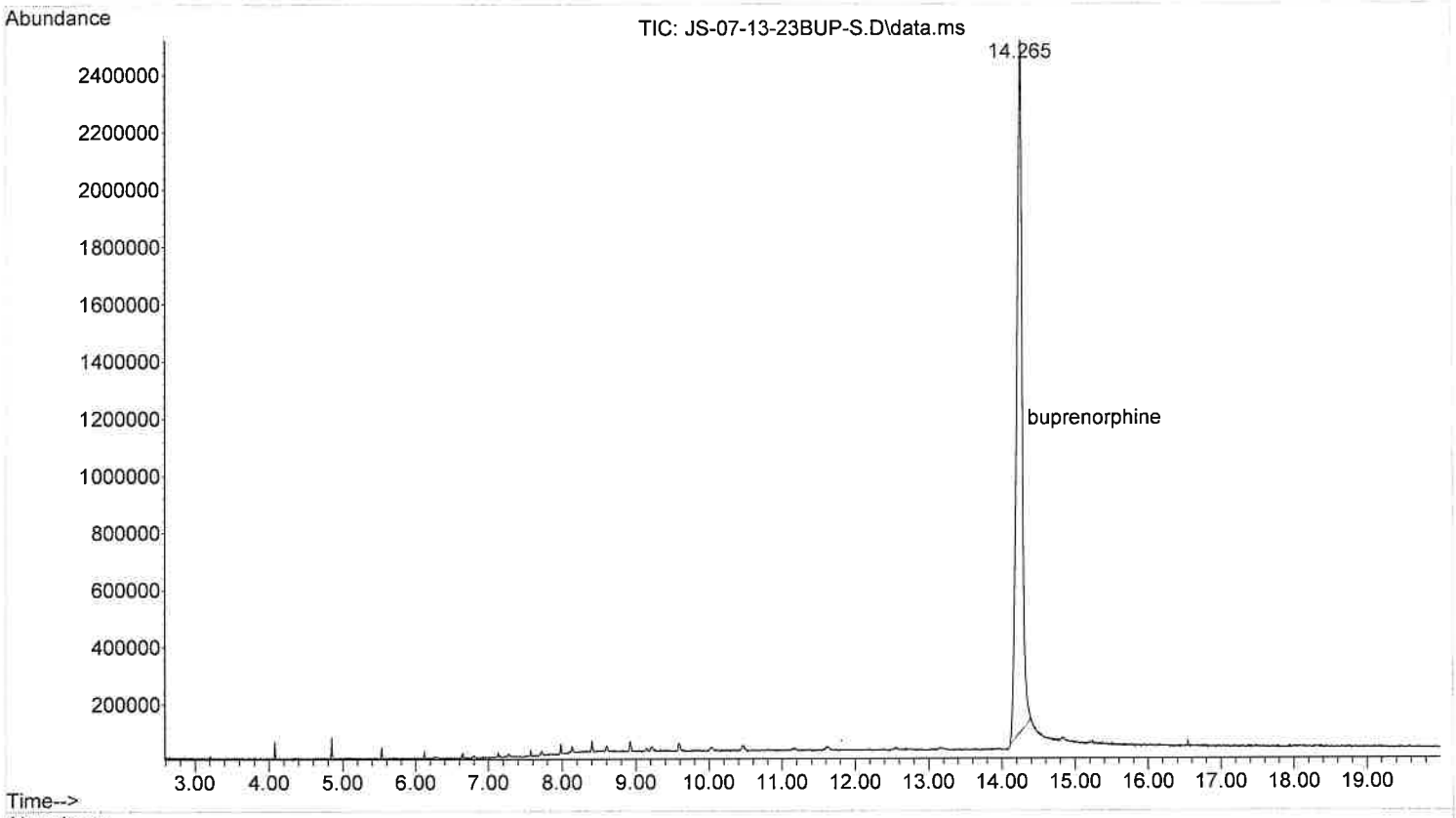
**Real-Time Plots**

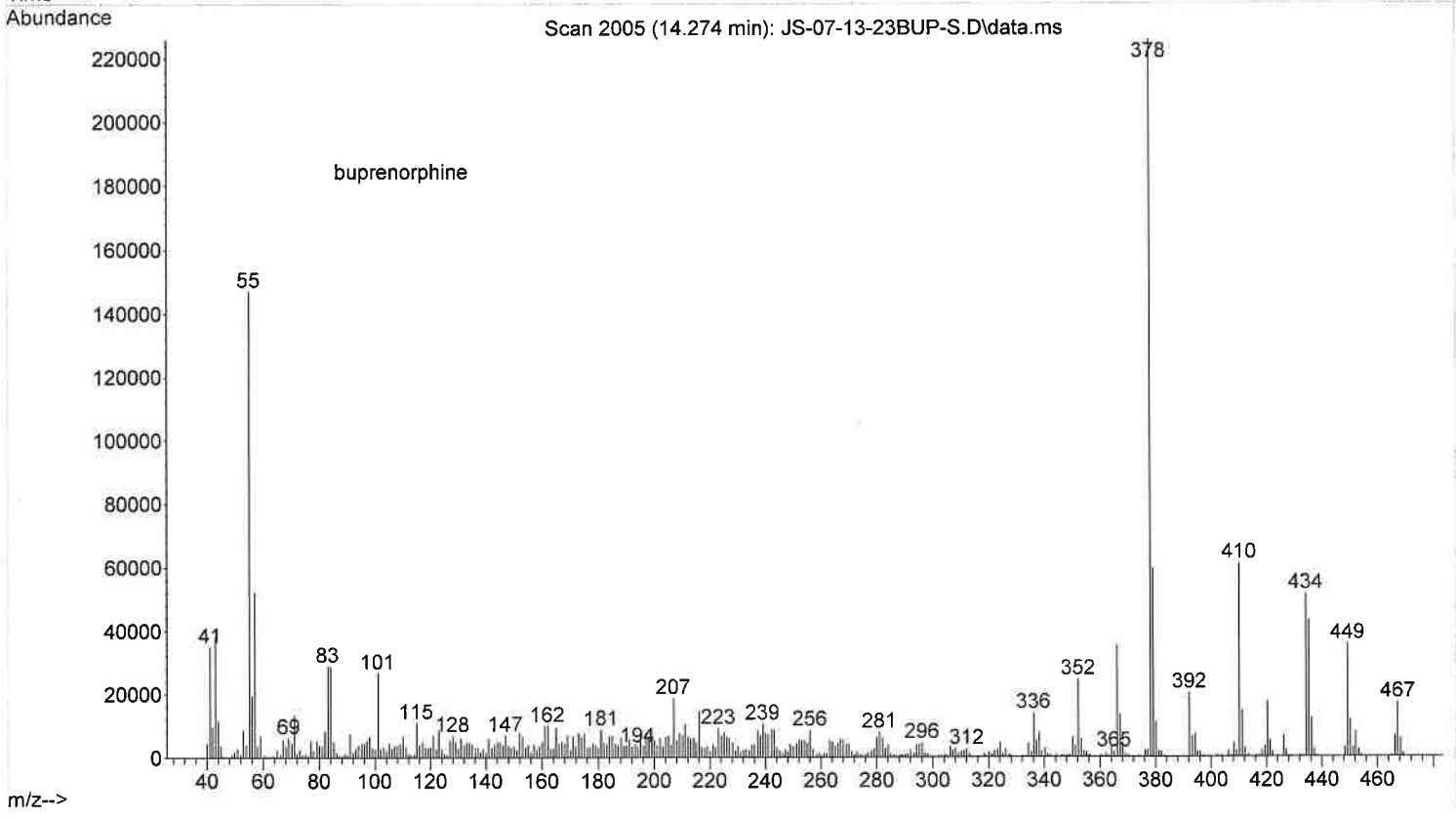
| Type of Plot | Label | Low Mass | High Mass |
|---|---|---|---|
| Total Ion | N/A | N/A | N/A |
| Spectrum | N/A | N/A | N/A |
| Extracted Ion | Scan 1-1 | 50 | 550 |
| Extracted Ion | Scan 1-2 | 40 | 550 |

**Self-Cleaning Ion Source Parameters**

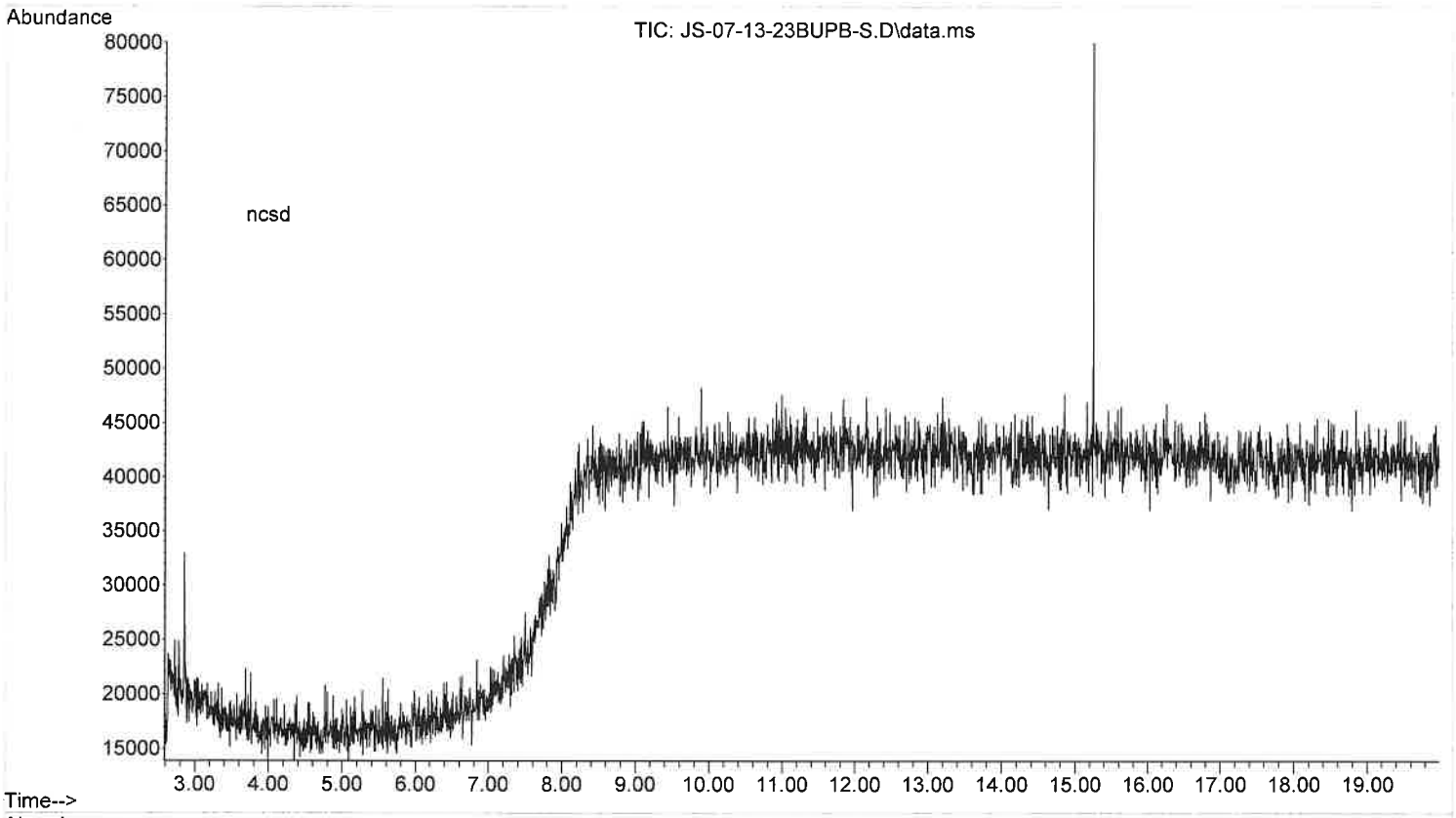
| | |
|---|---|
| Mode | No Cleaning |

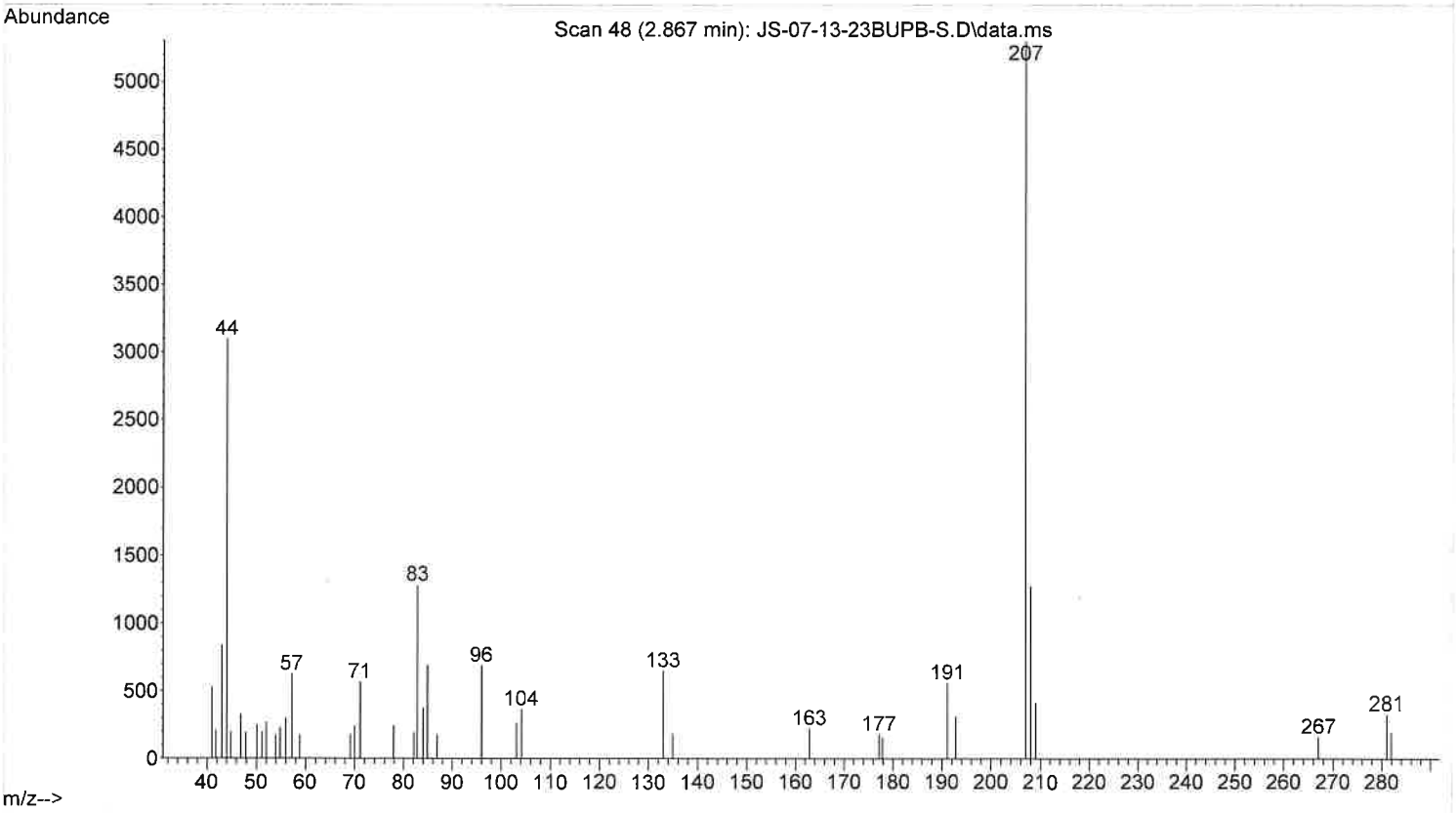
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23BUP-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 18:53 using AcqMethod STEROID.M
Sample Name: BUPRENORPHINE STD
Misc Info : MeOH



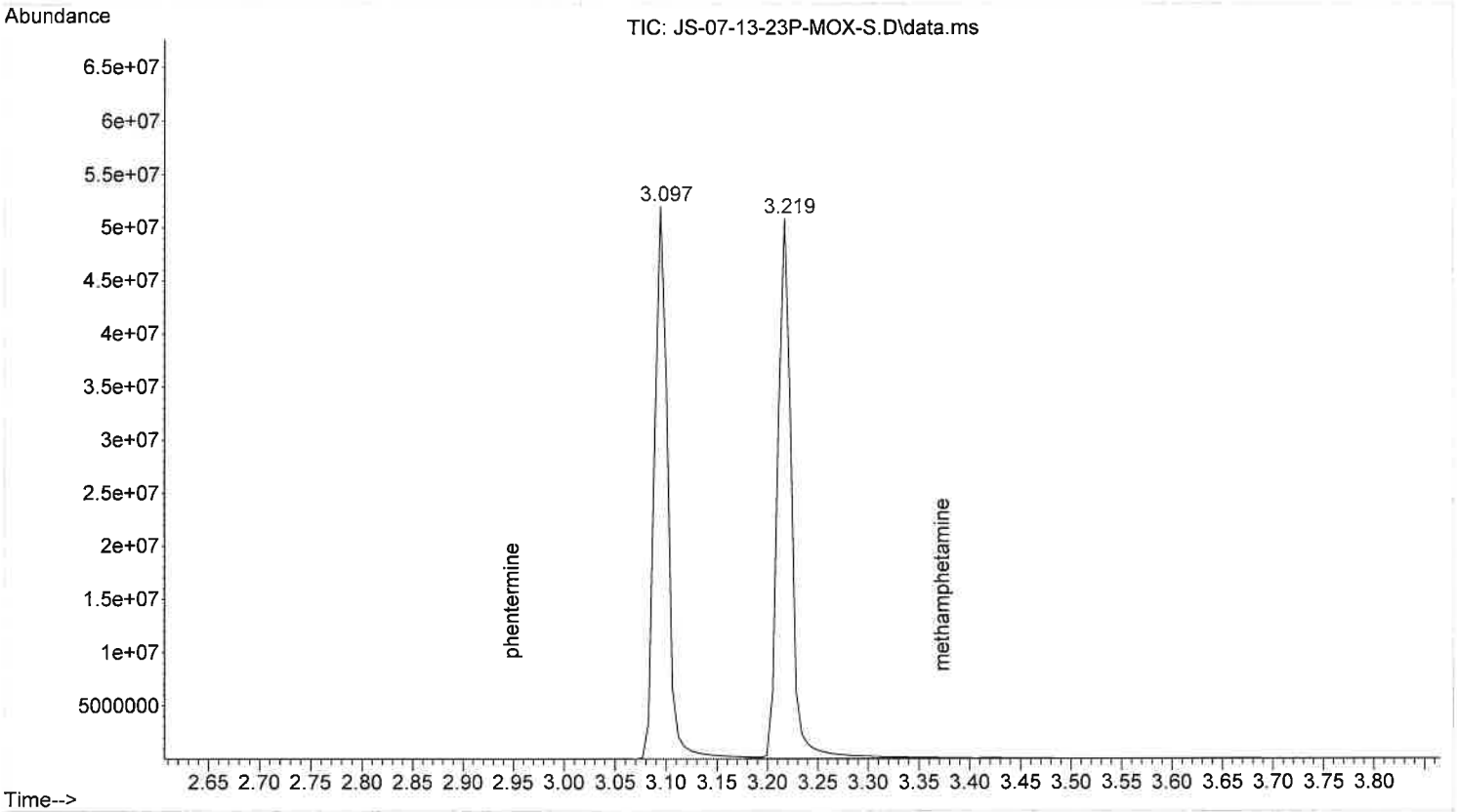



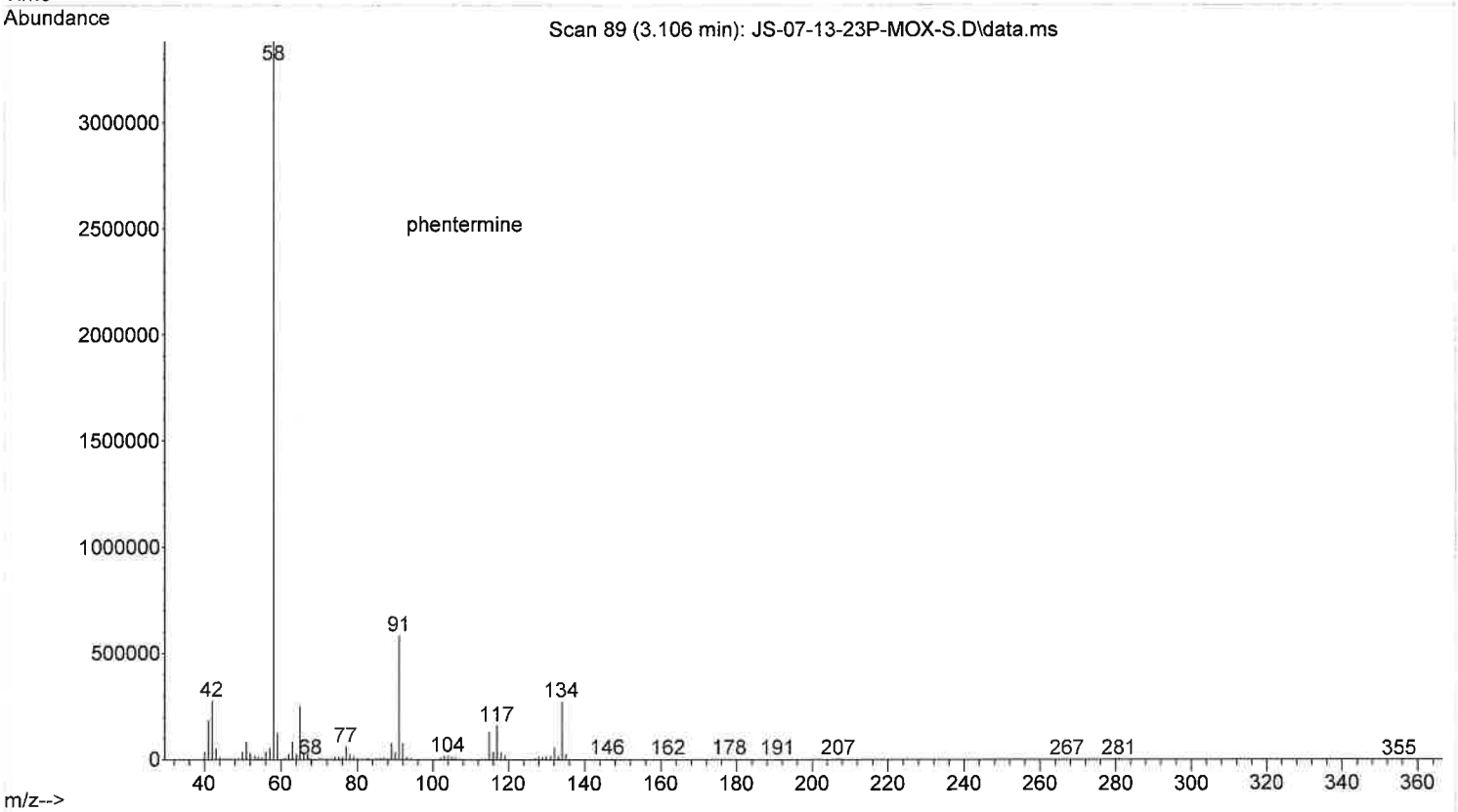
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23BUPB-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 18:29 using AcqMethod STEROID.M
Sample Name: BUPRENORPHINE STD BLANK
Misc Info : MeOH



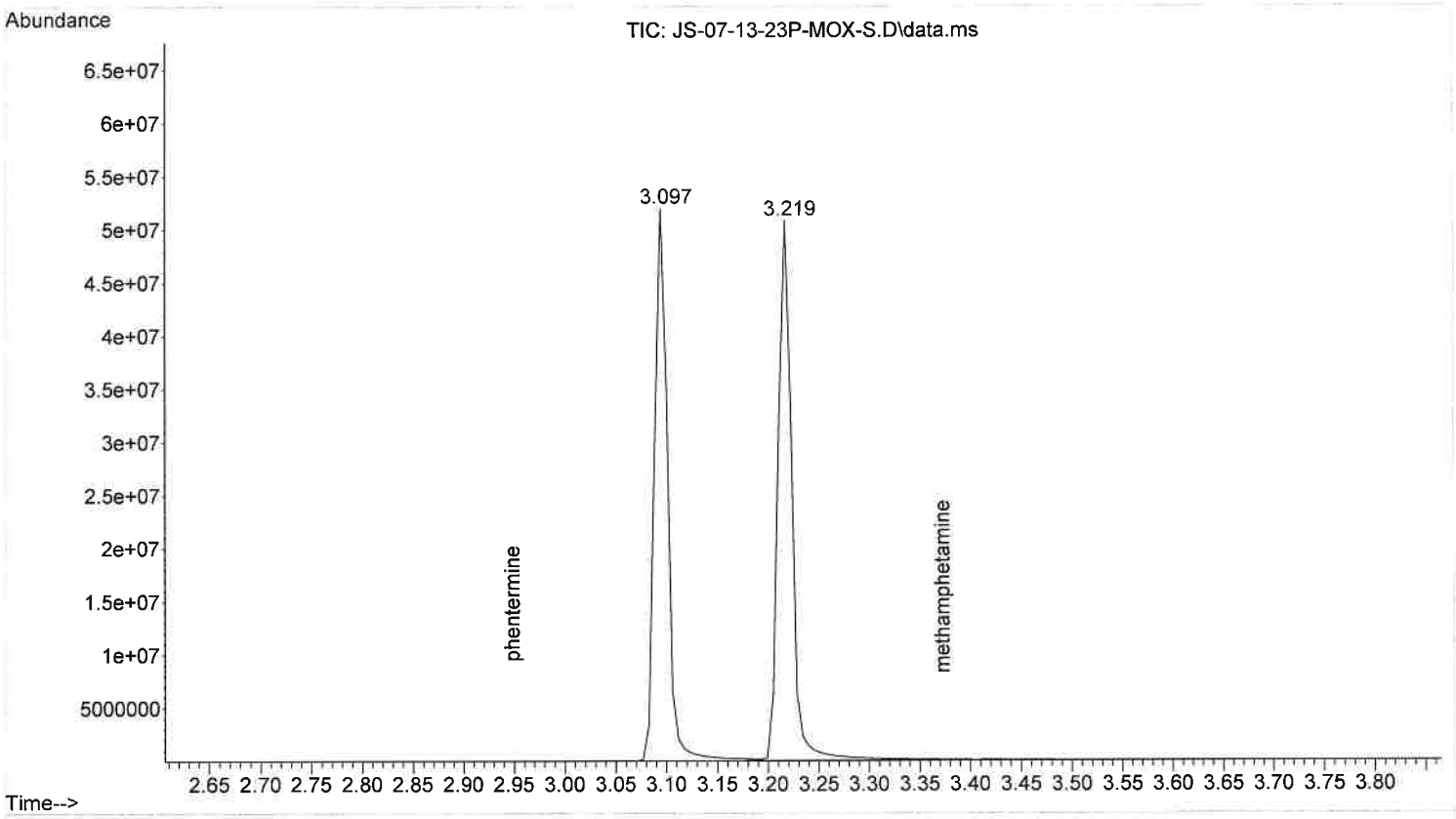



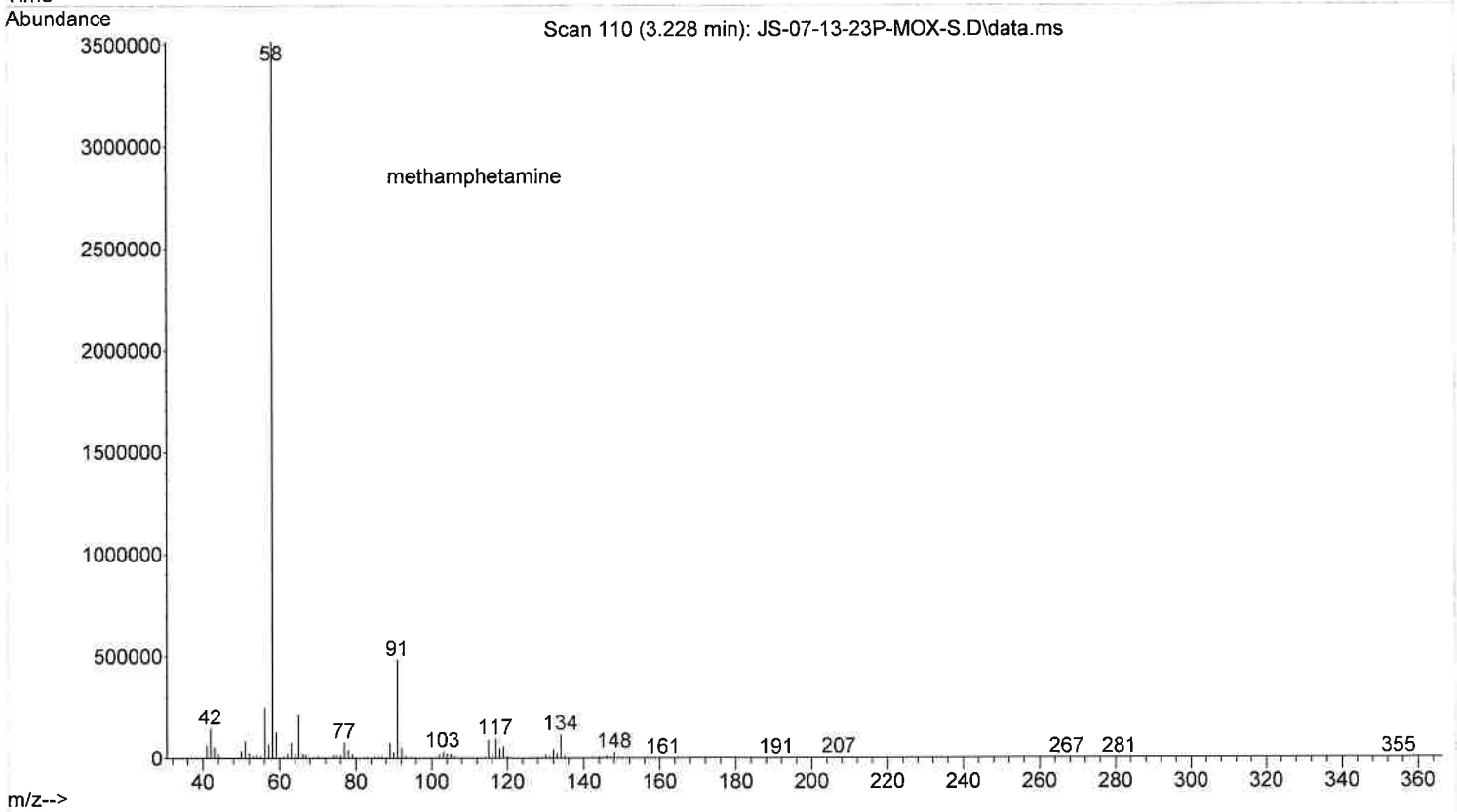
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 17:47 using AcqMethod STEROID.M
Sample Name: P-MOX STD
Misc Info : CHCl3



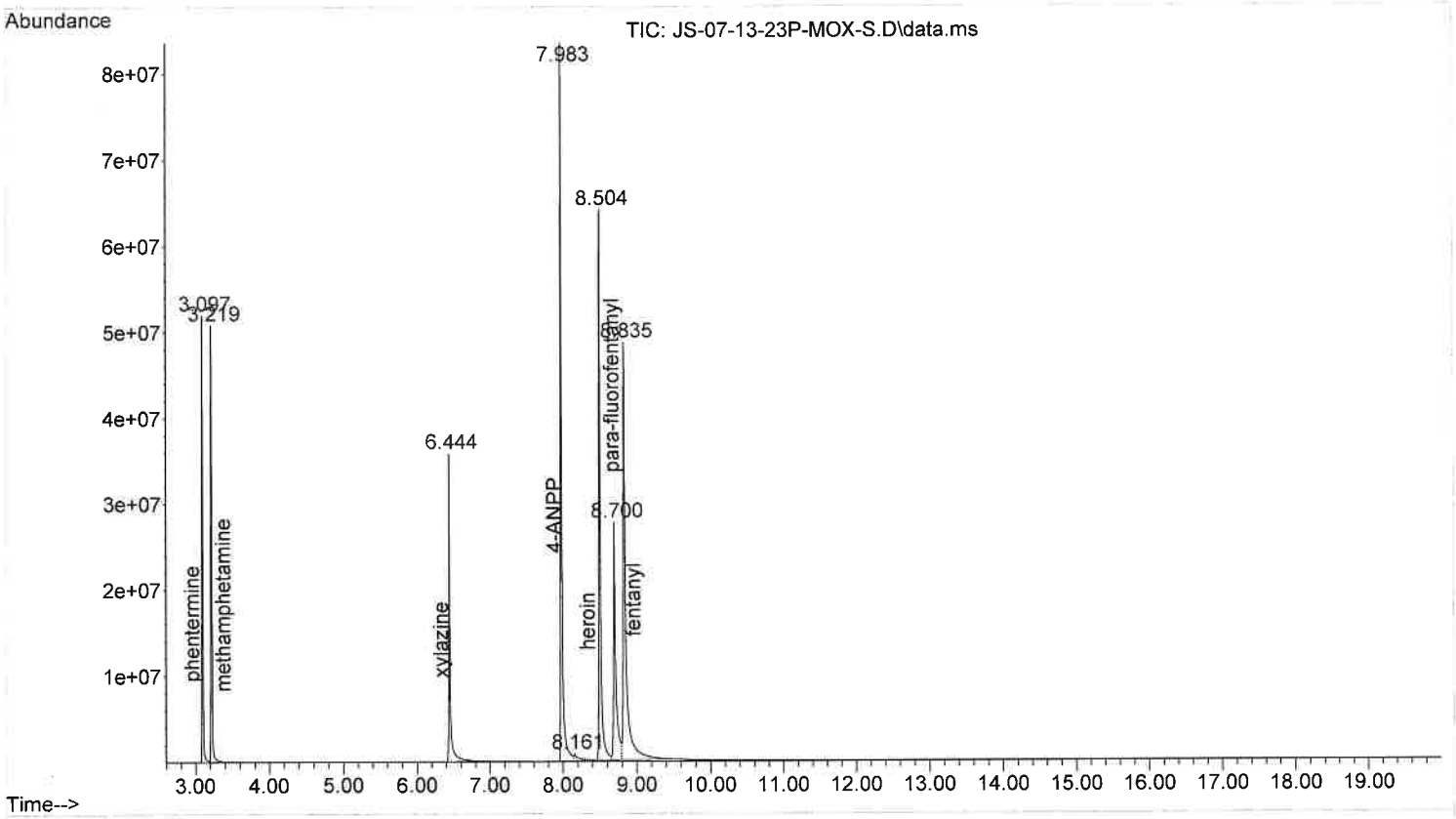



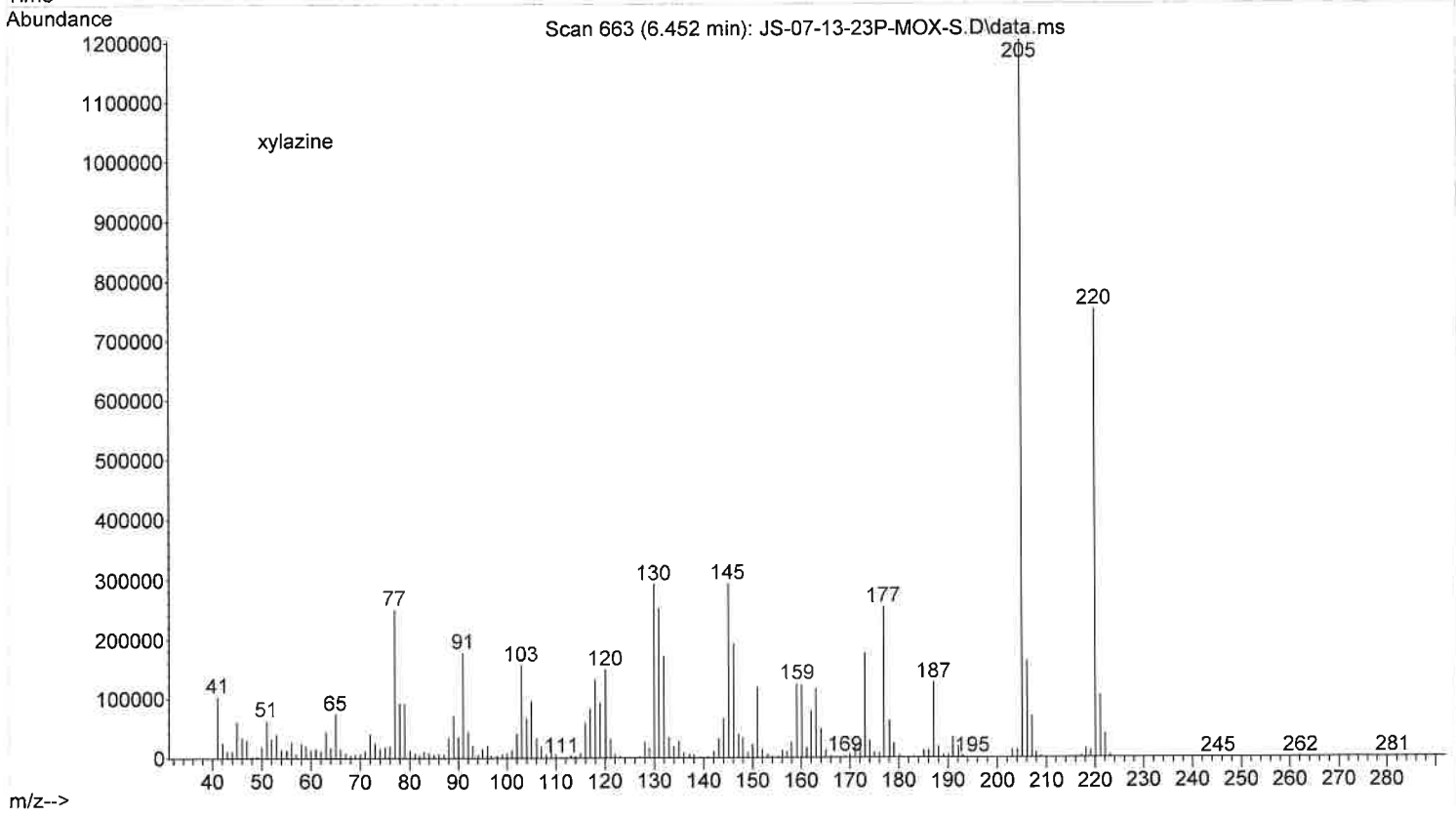
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-S.D
Operator : Dobby
Instrument : ·Dobby
Acquired : 13 Jul 2023 17:47 using AcqMethod STEROID.M
Sample Name: P-MOX STD
Misc Info : CHCl3



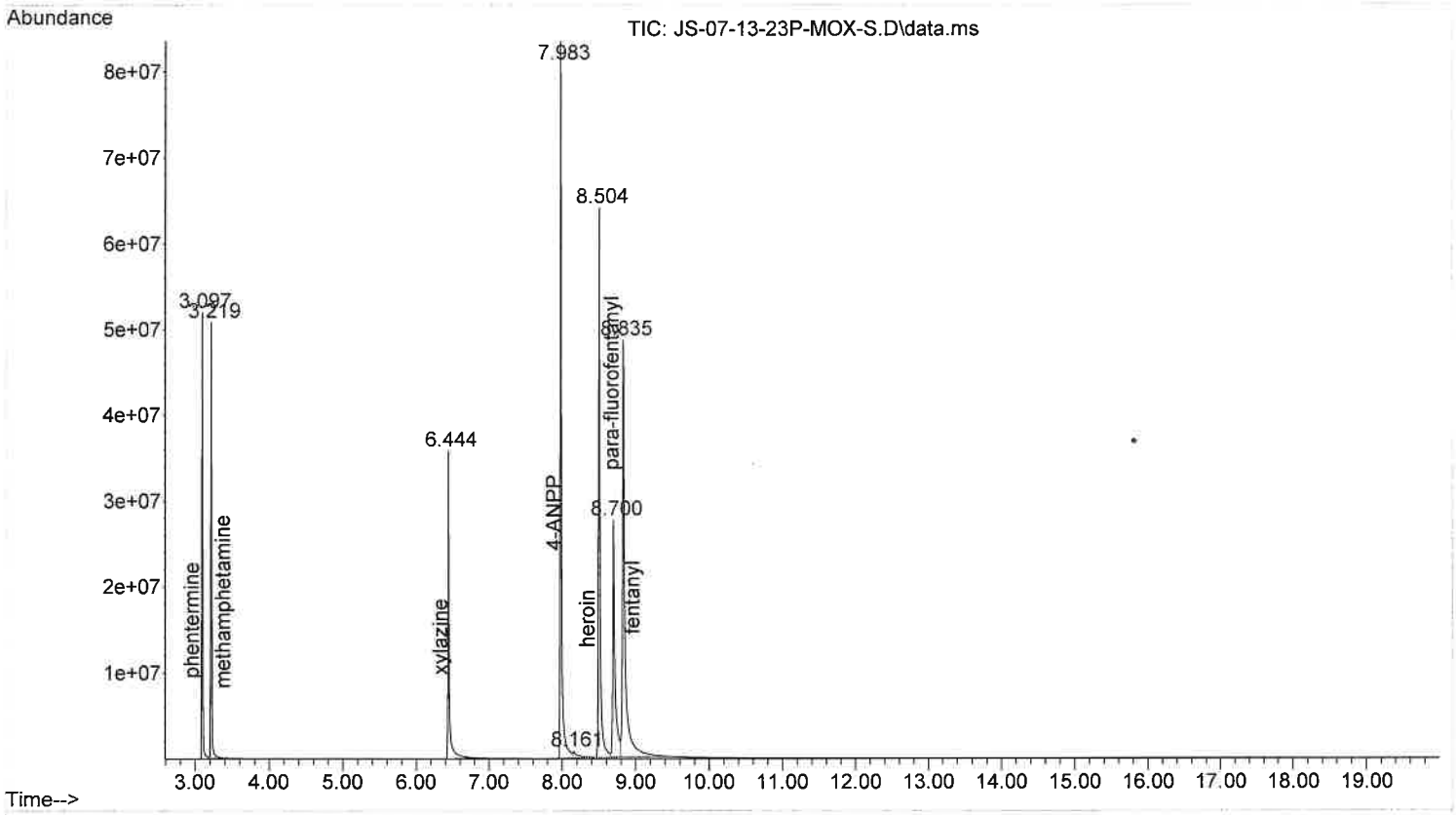



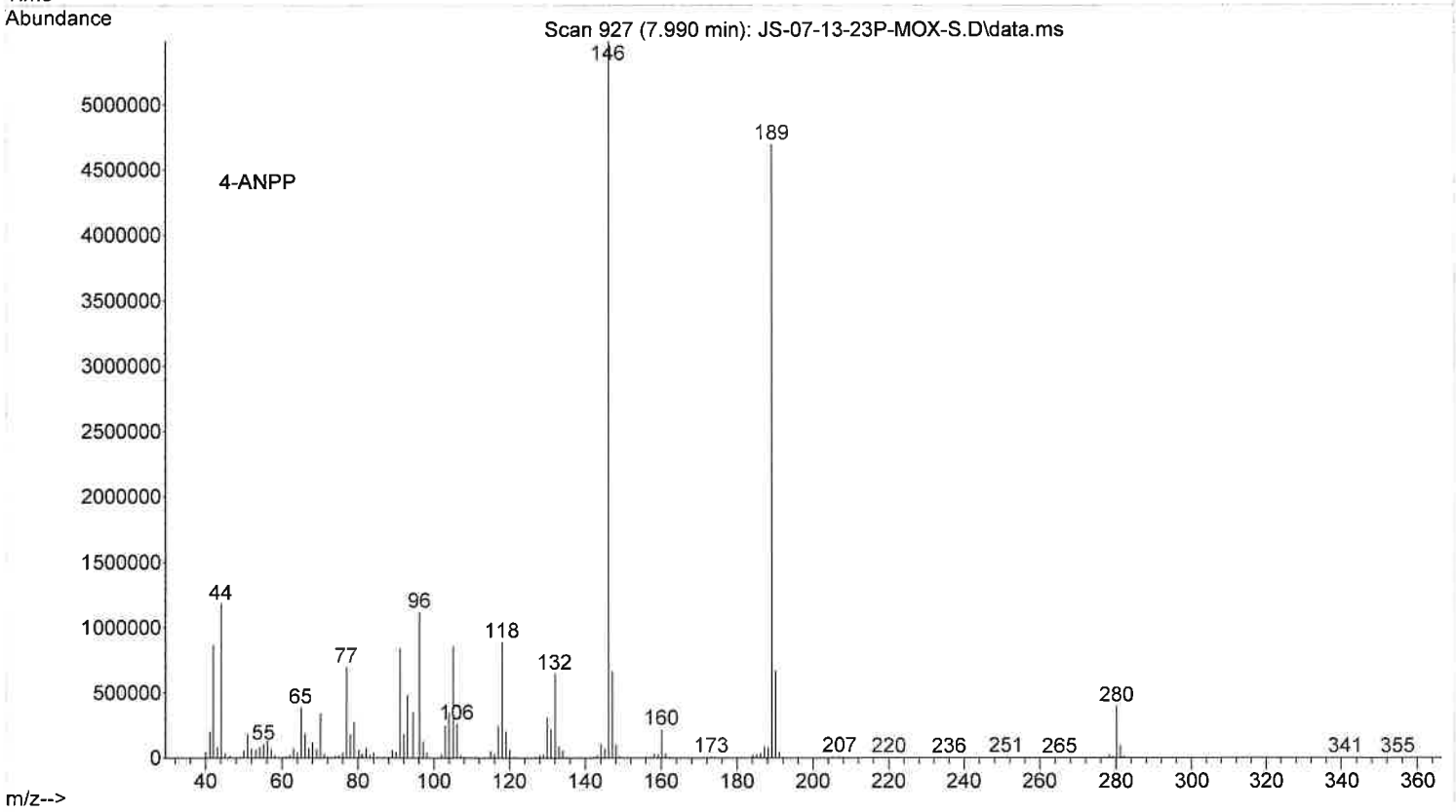
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 17:47 using AcqMethod STEROID.M
Sample Name: P-MOX STD
Misc Info : CHCl3



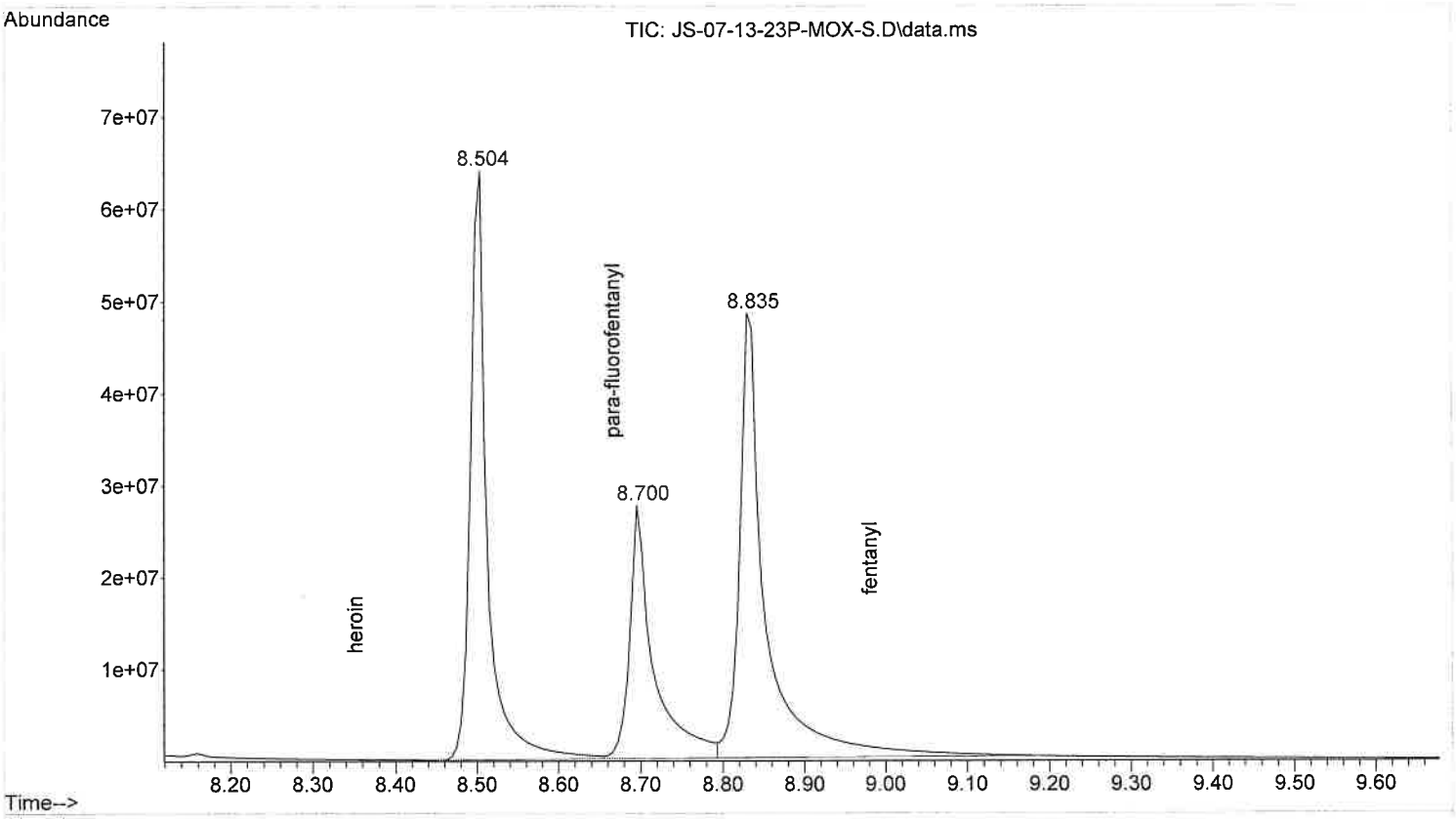



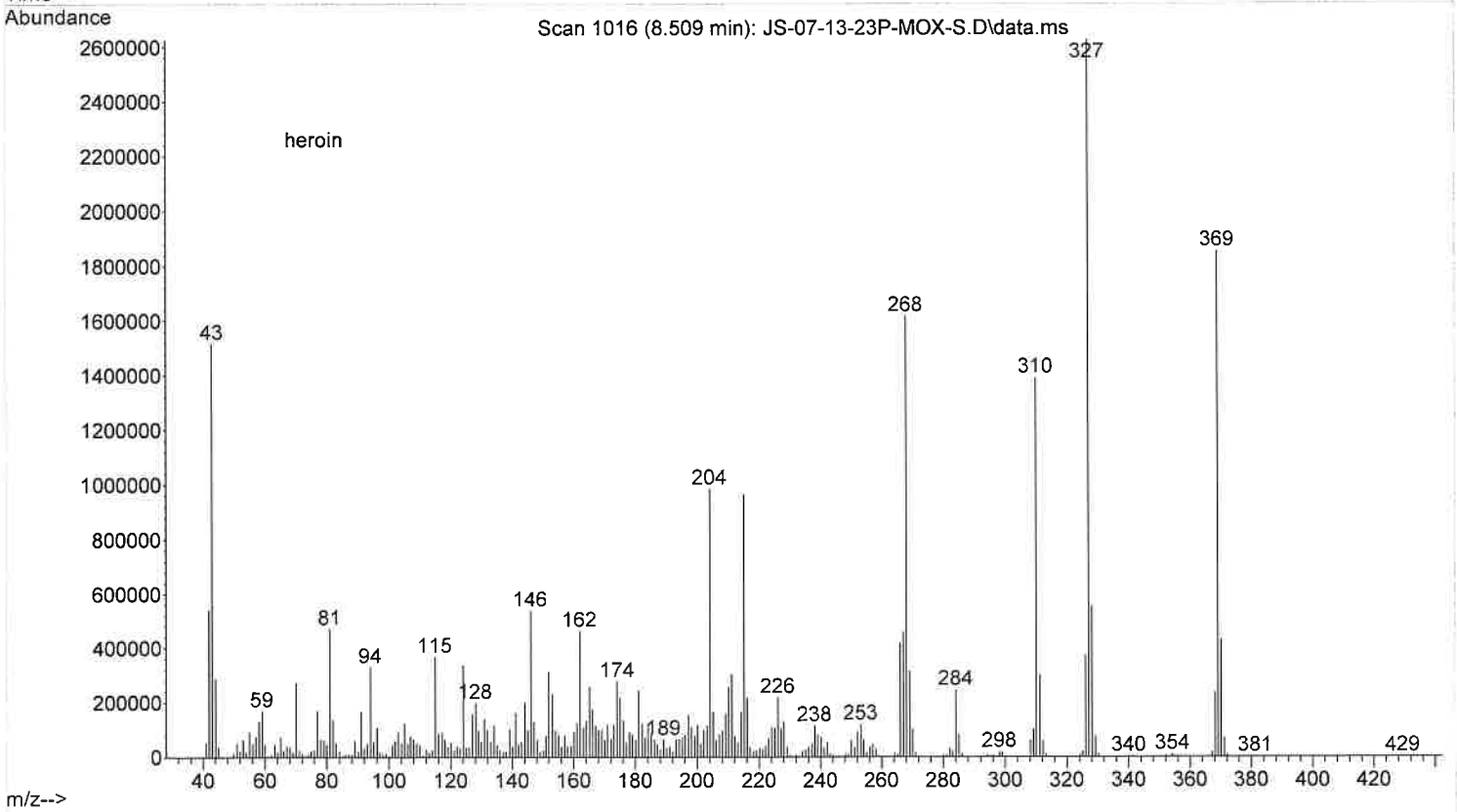
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 17:47 using AcqMethod STEROID.M
Sample Name: P-MOX STD
Misc Info : CHCl3



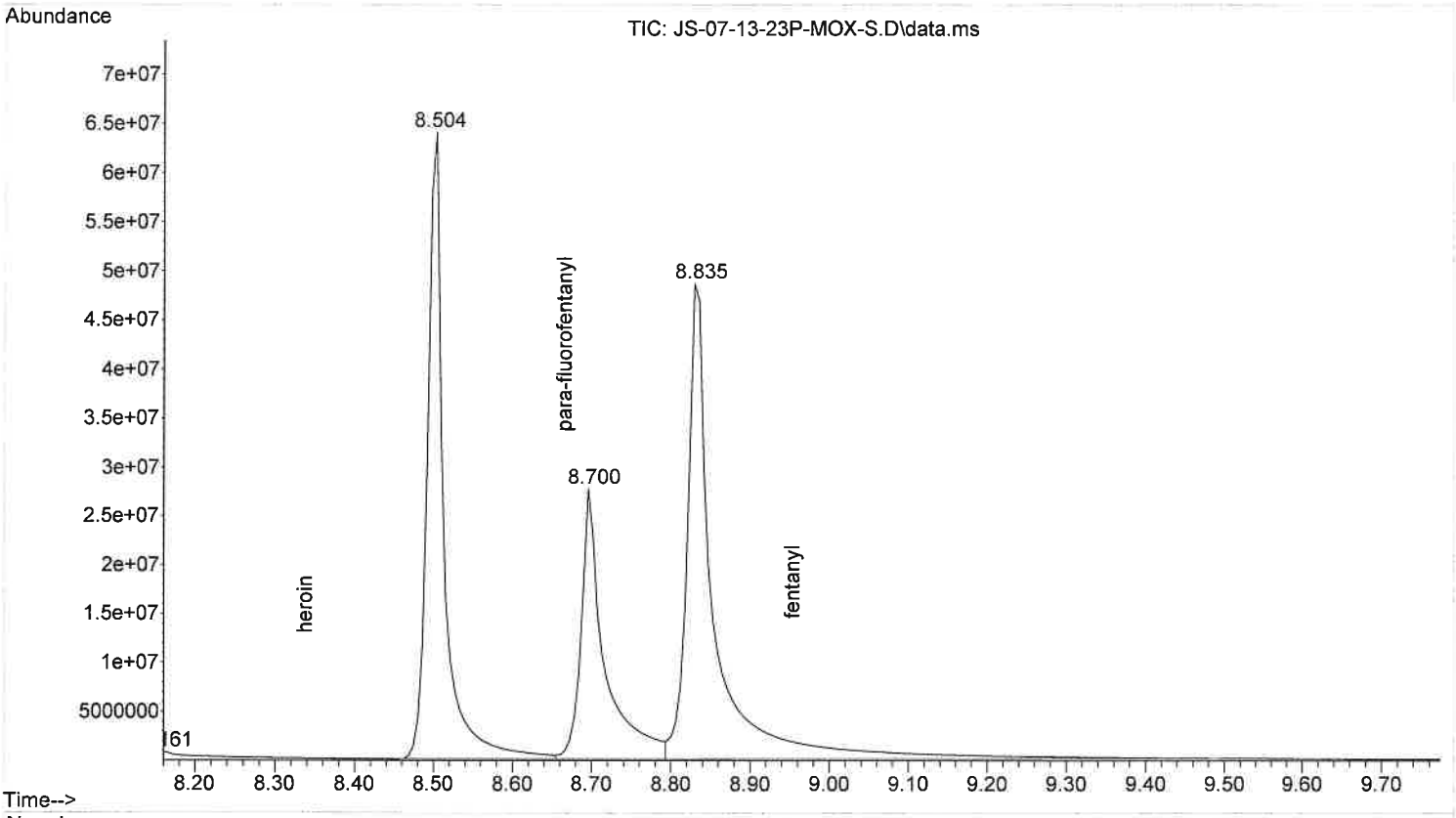



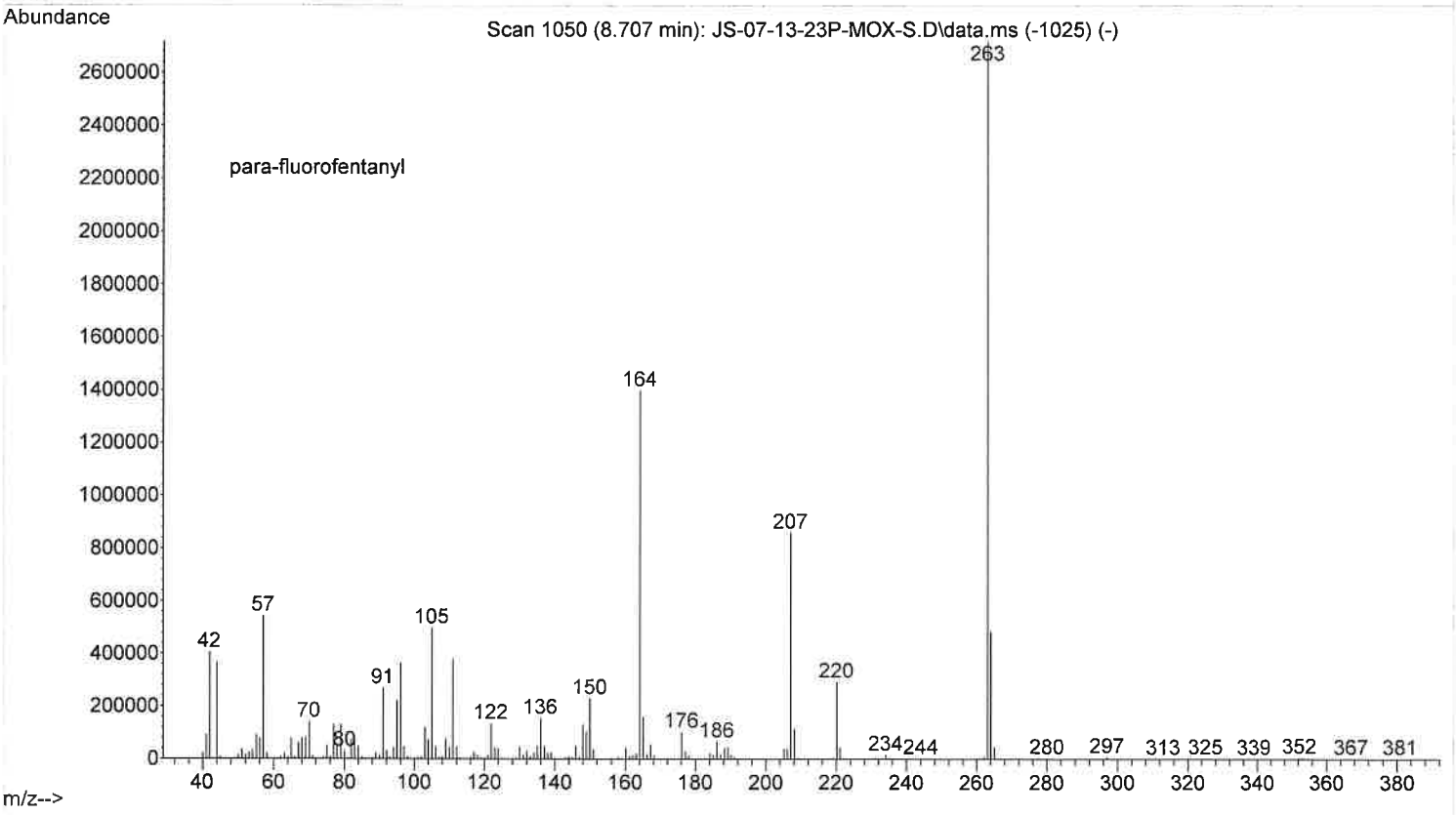
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 17:47 using AcqMethod STEROID.M
Sample Name: P-MOX STD
Misc Info : CHCl3



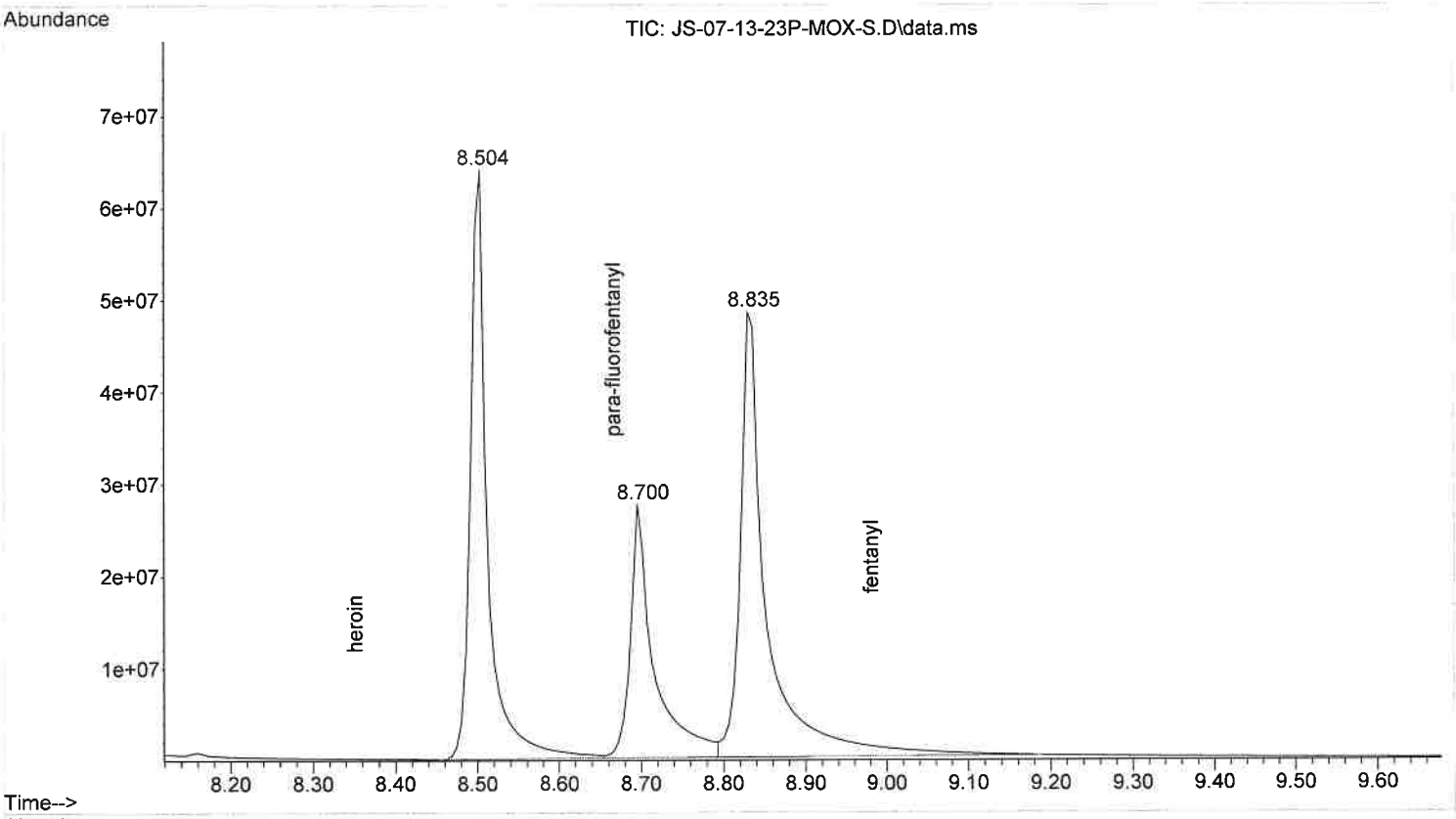



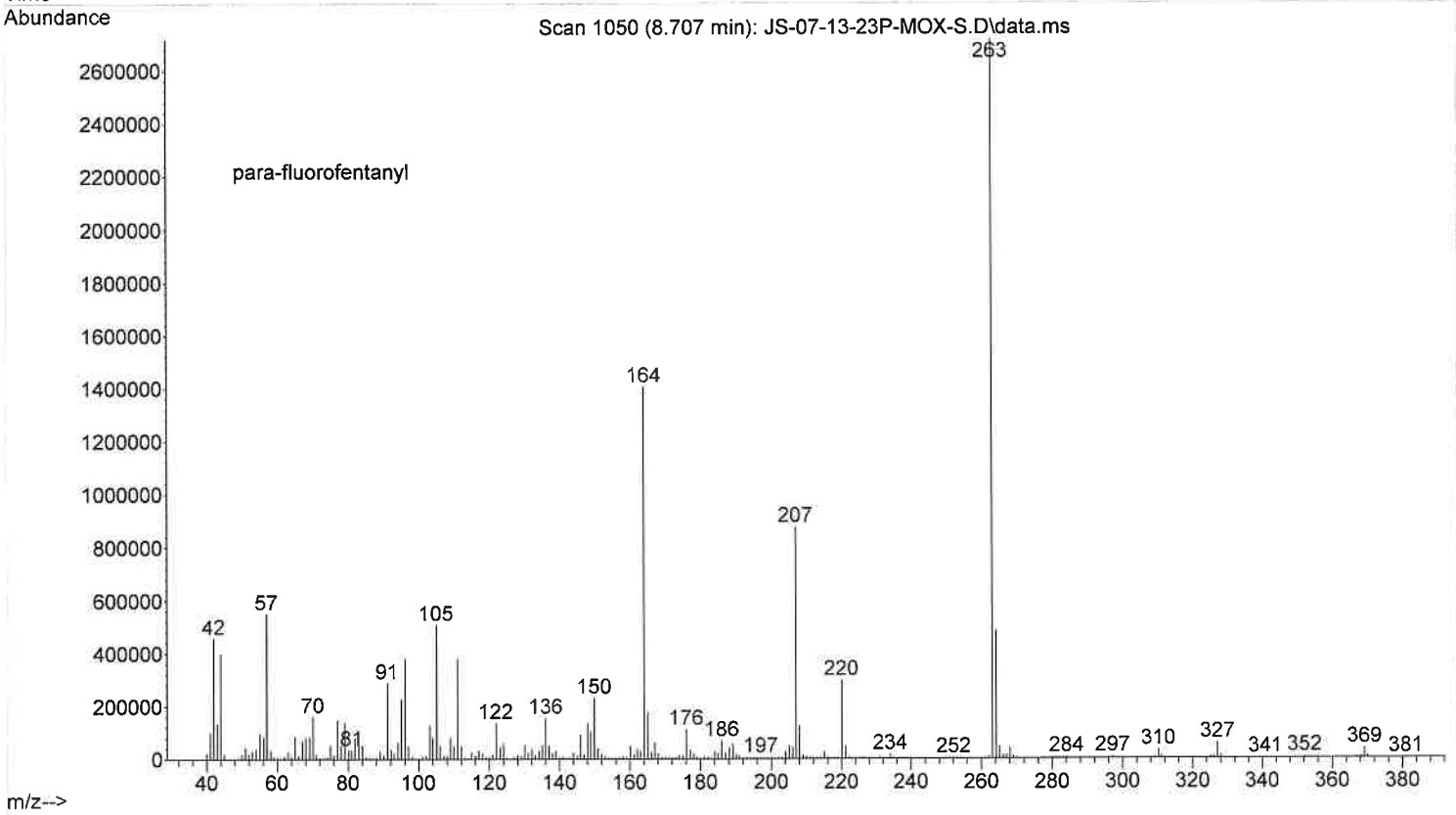
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 17:47 using AcqMethod STEROID.M
Sample Name: P-MOX STD
Misc Info : CHCl3



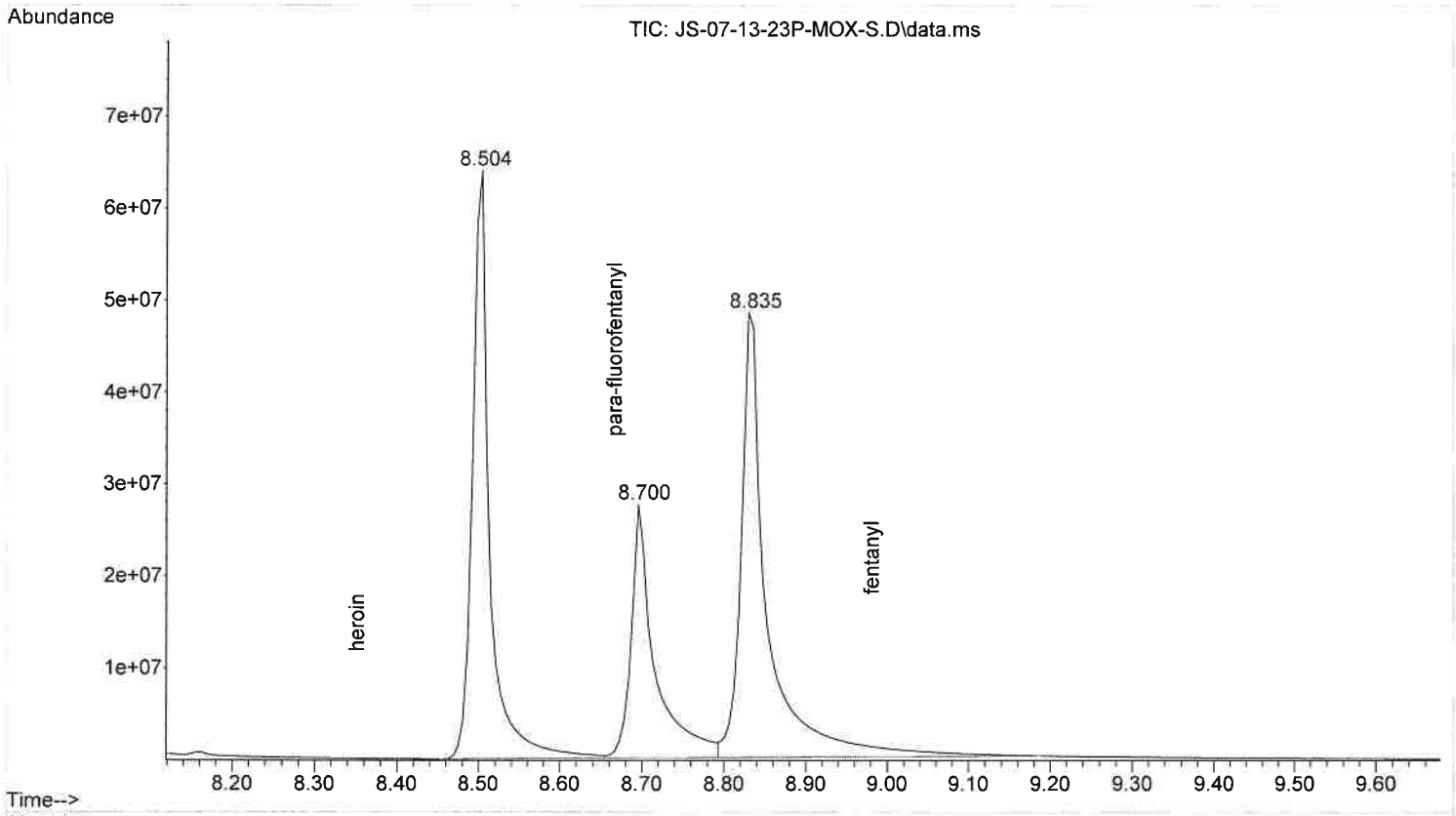



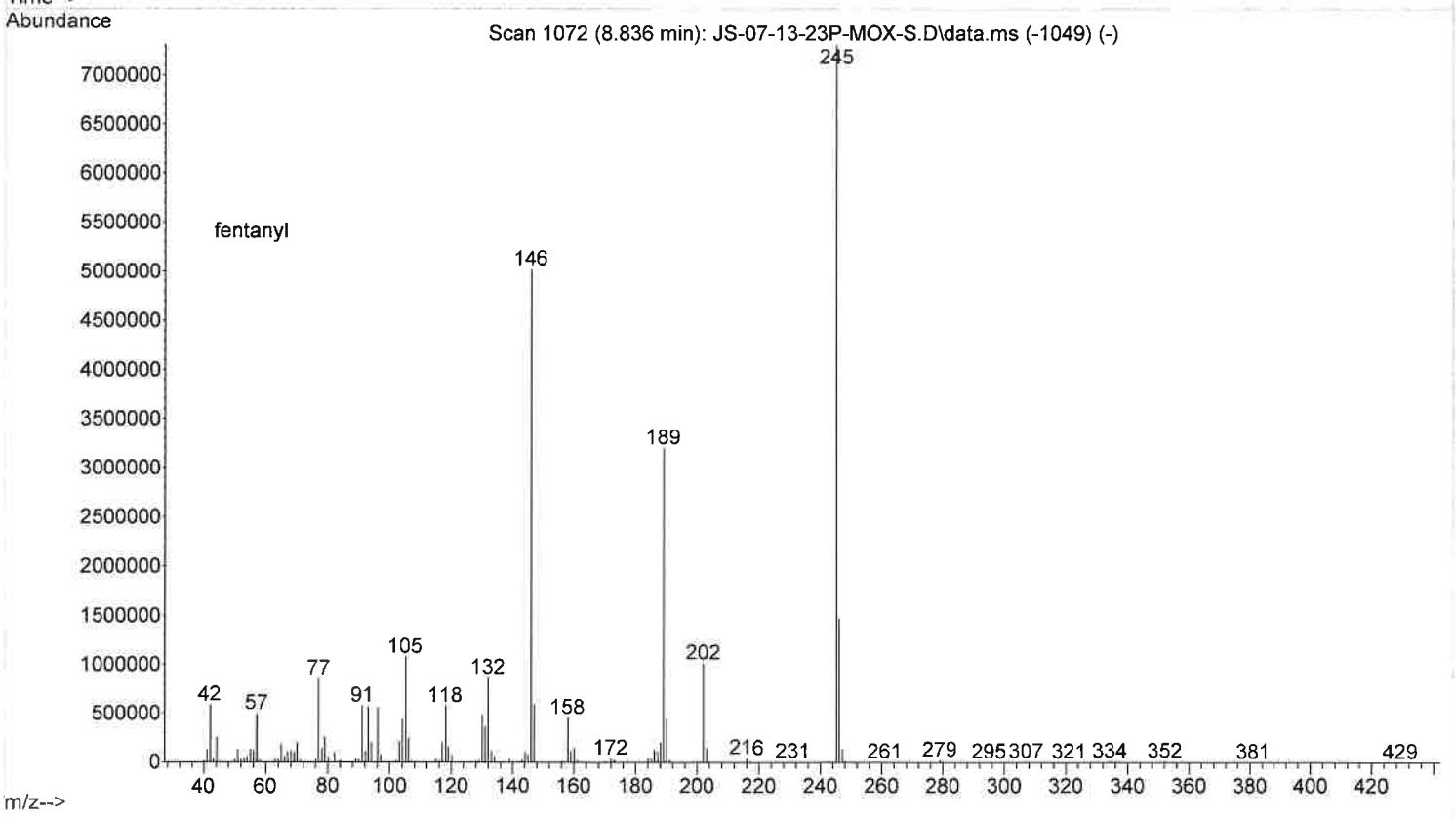
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 17:47 using AcqMethod STEROID.M
Sample Name: P-MOX STD
Misc Info : CHCl3



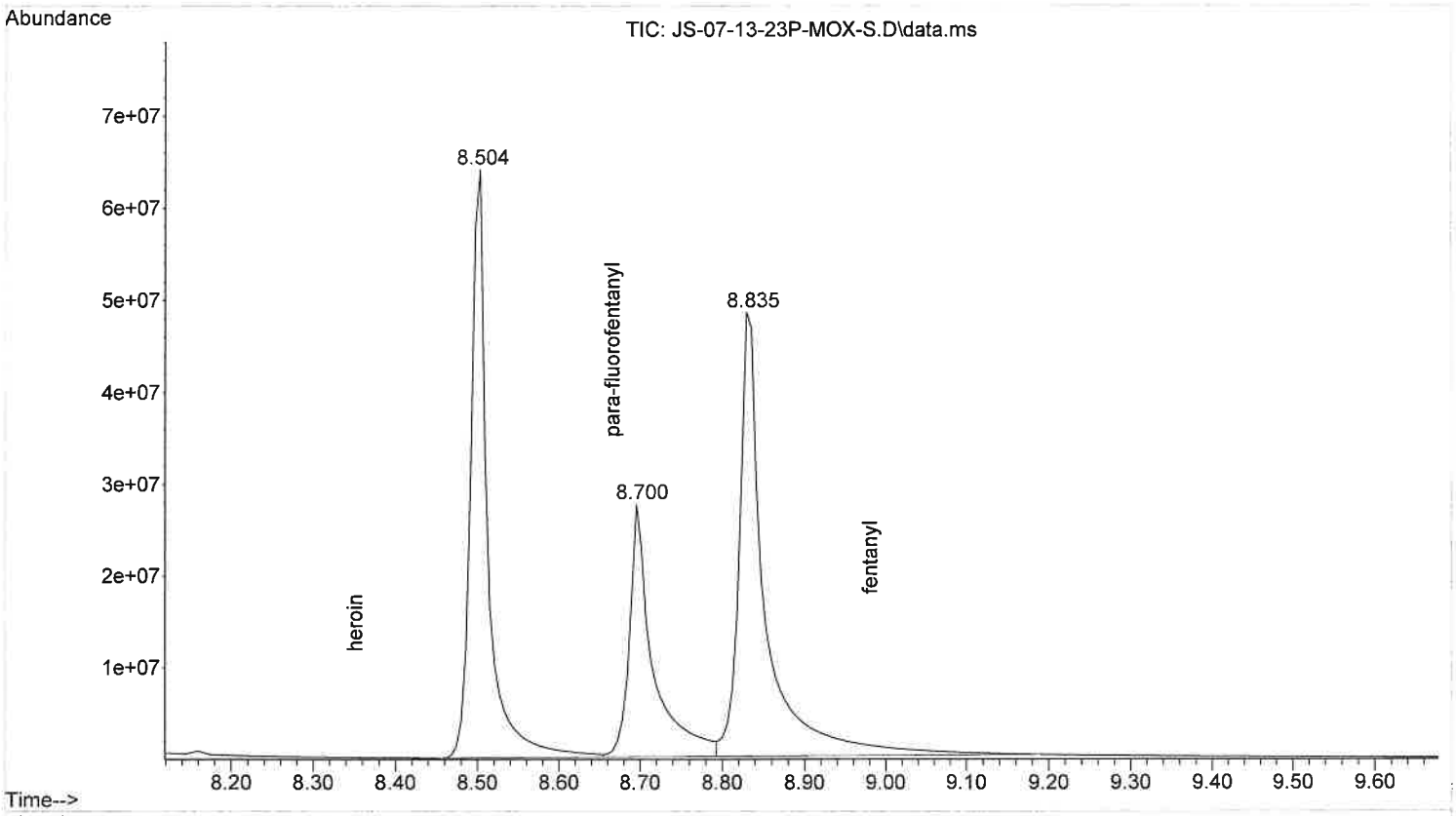



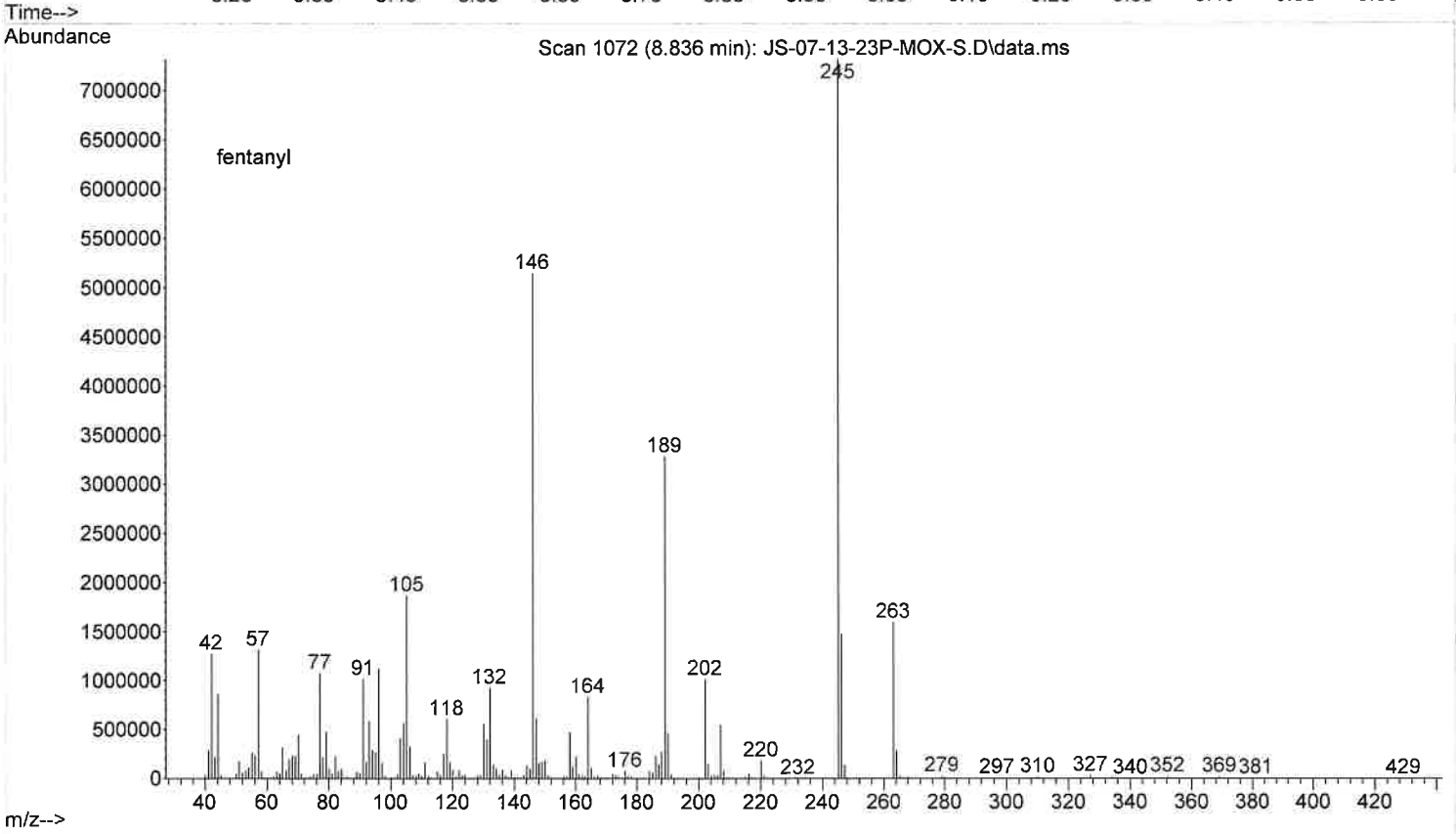
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 17:47 using AcqMethod STEROID.M
Sample Name: P-MOX STD
Misc Info : CHCl3



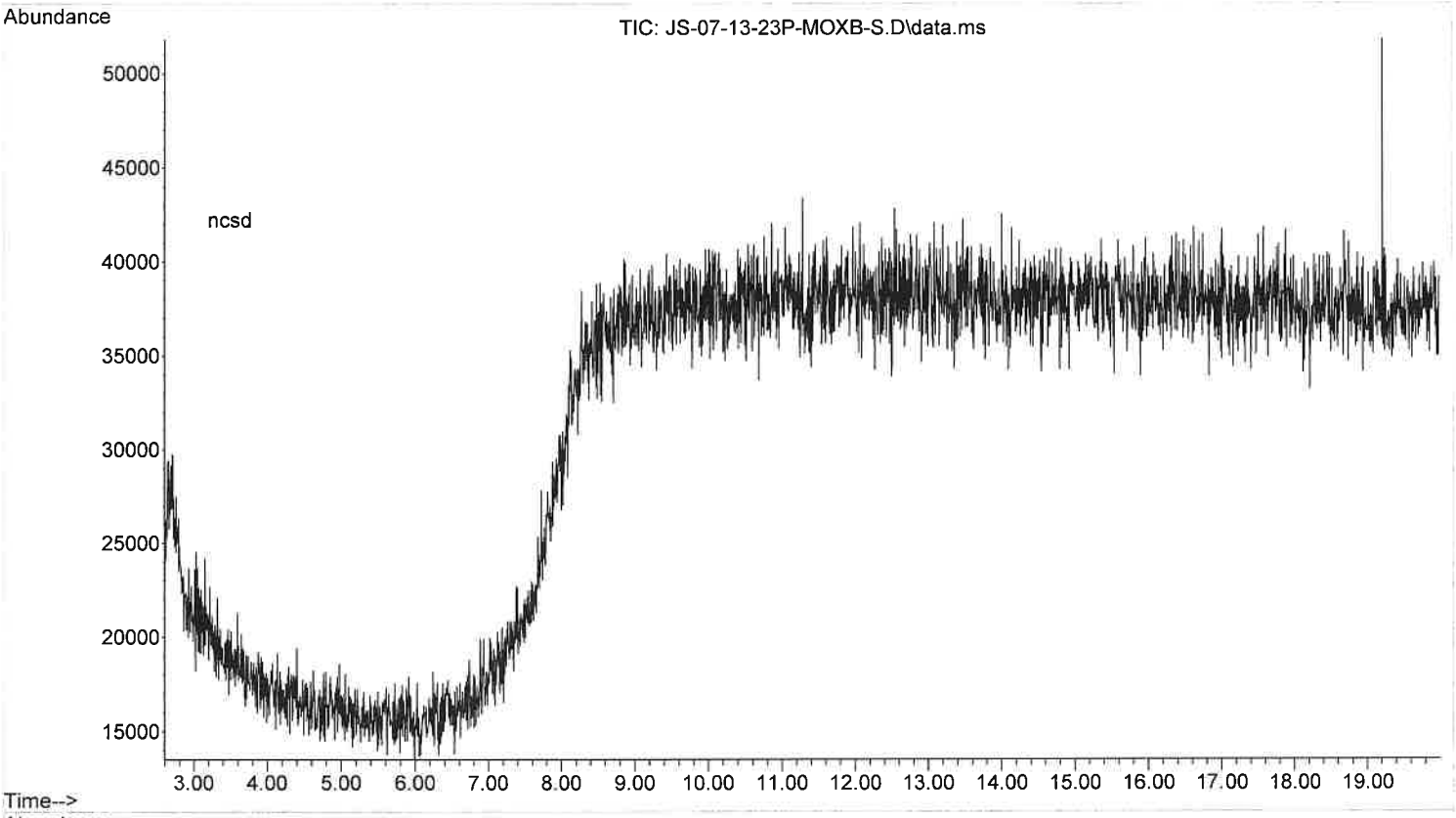



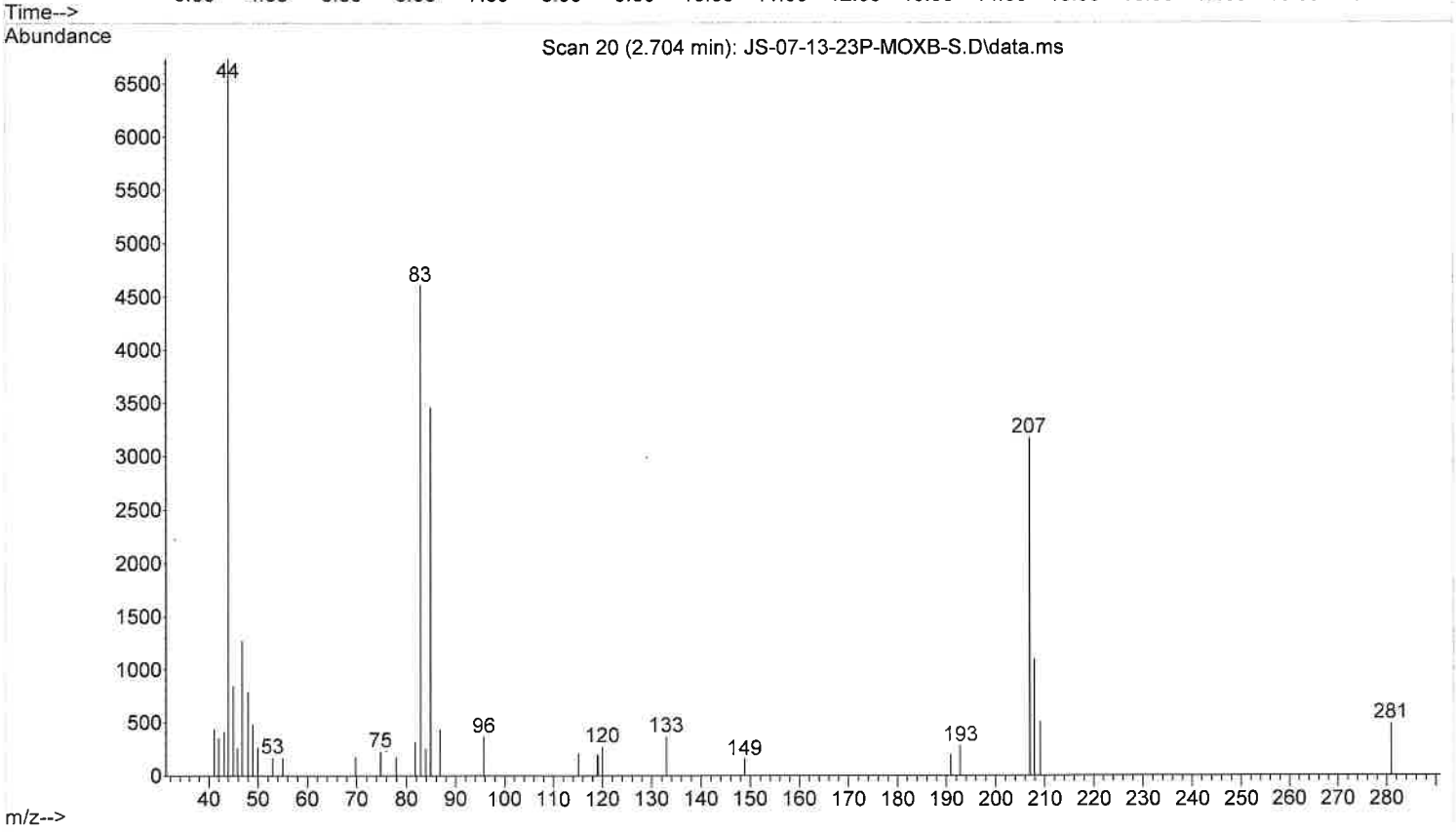
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOX-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 17:47 using AcqMethod STEROID.M
Sample Name: P-MOX STD
Misc Info : CHCl3



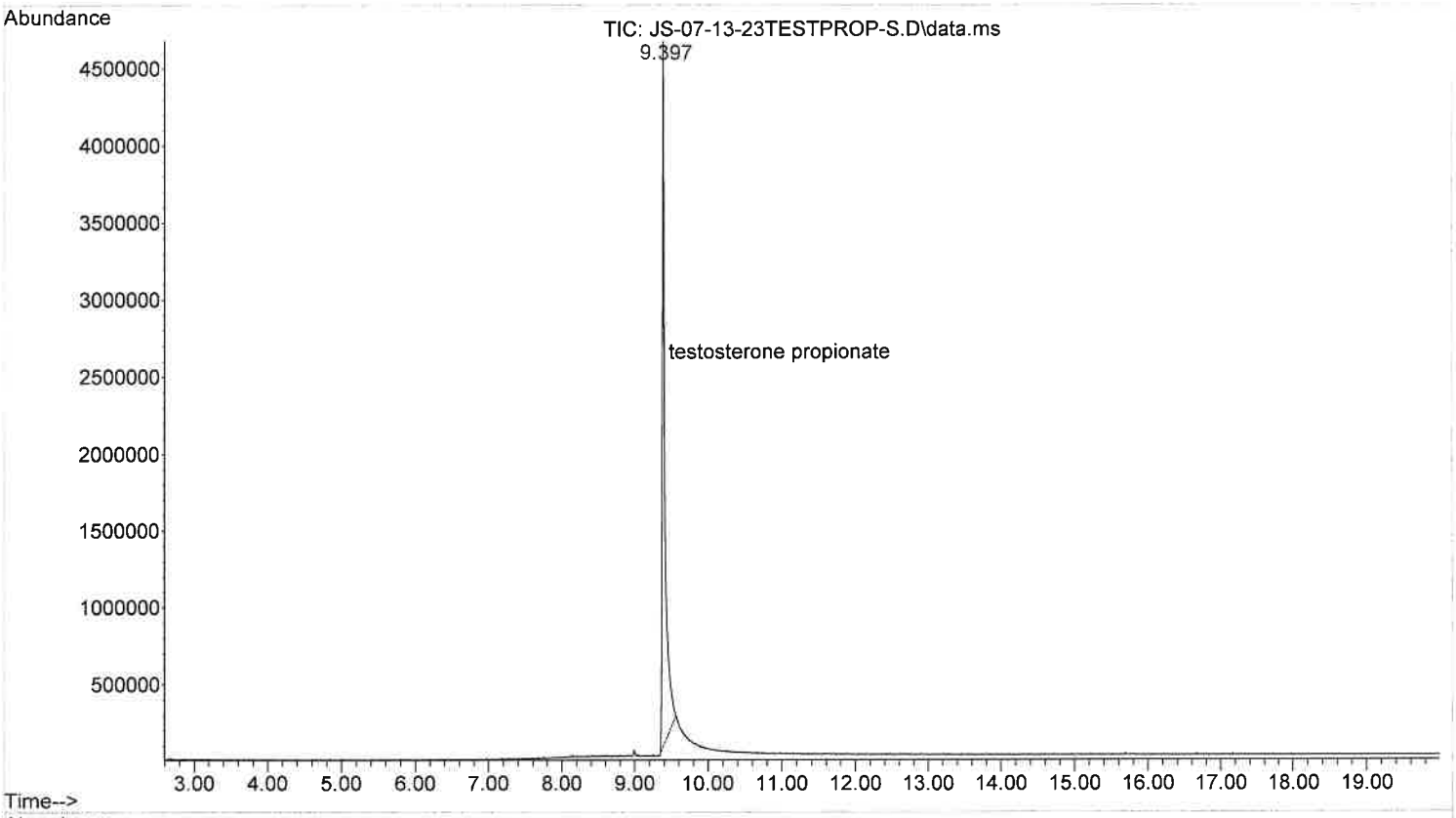



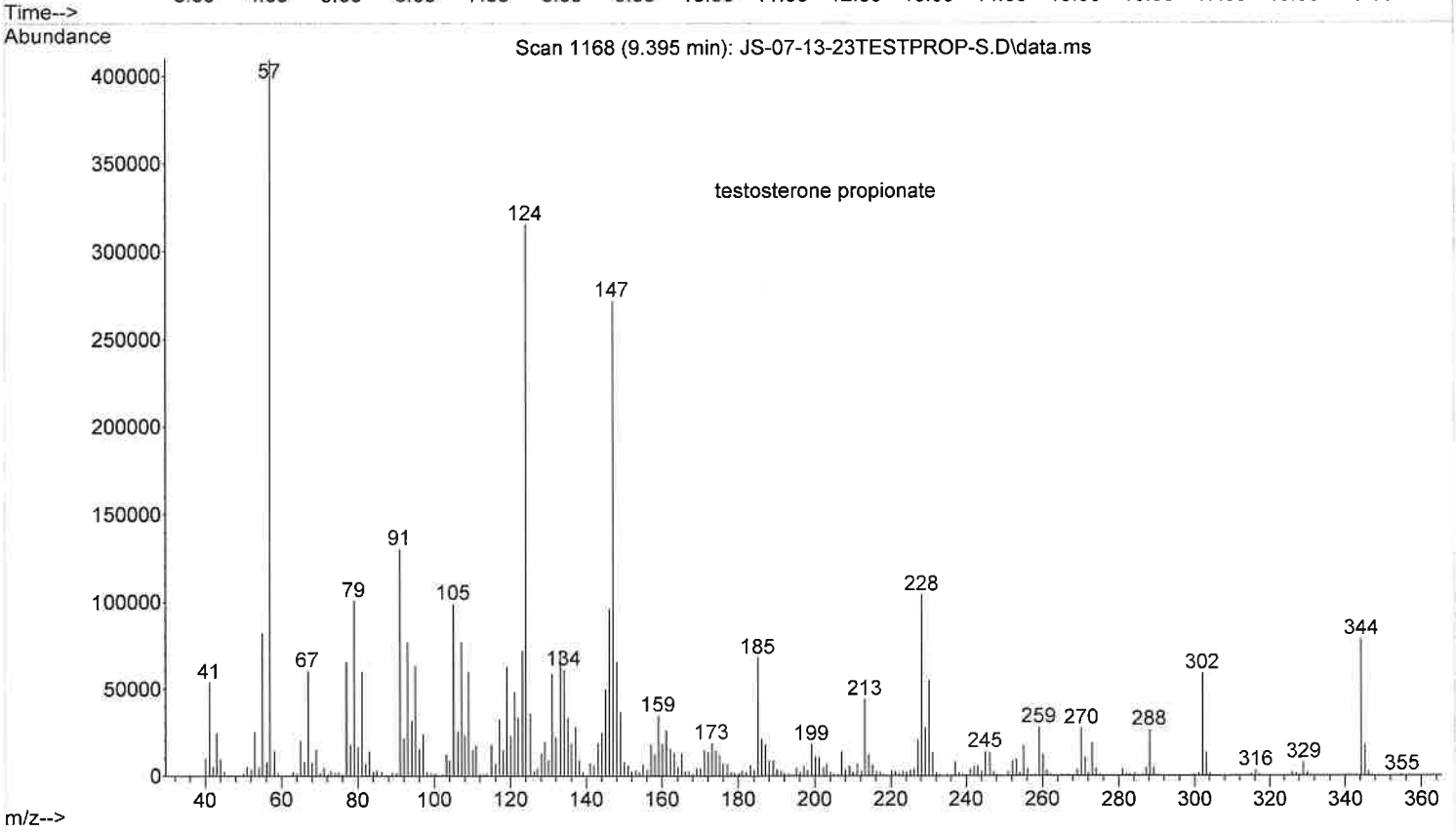
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23P-MOXB-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 17:24 using AcqMethod STEROID.M
Sample Name: P-MOX STD BLANK
Misc Info : CHCl3



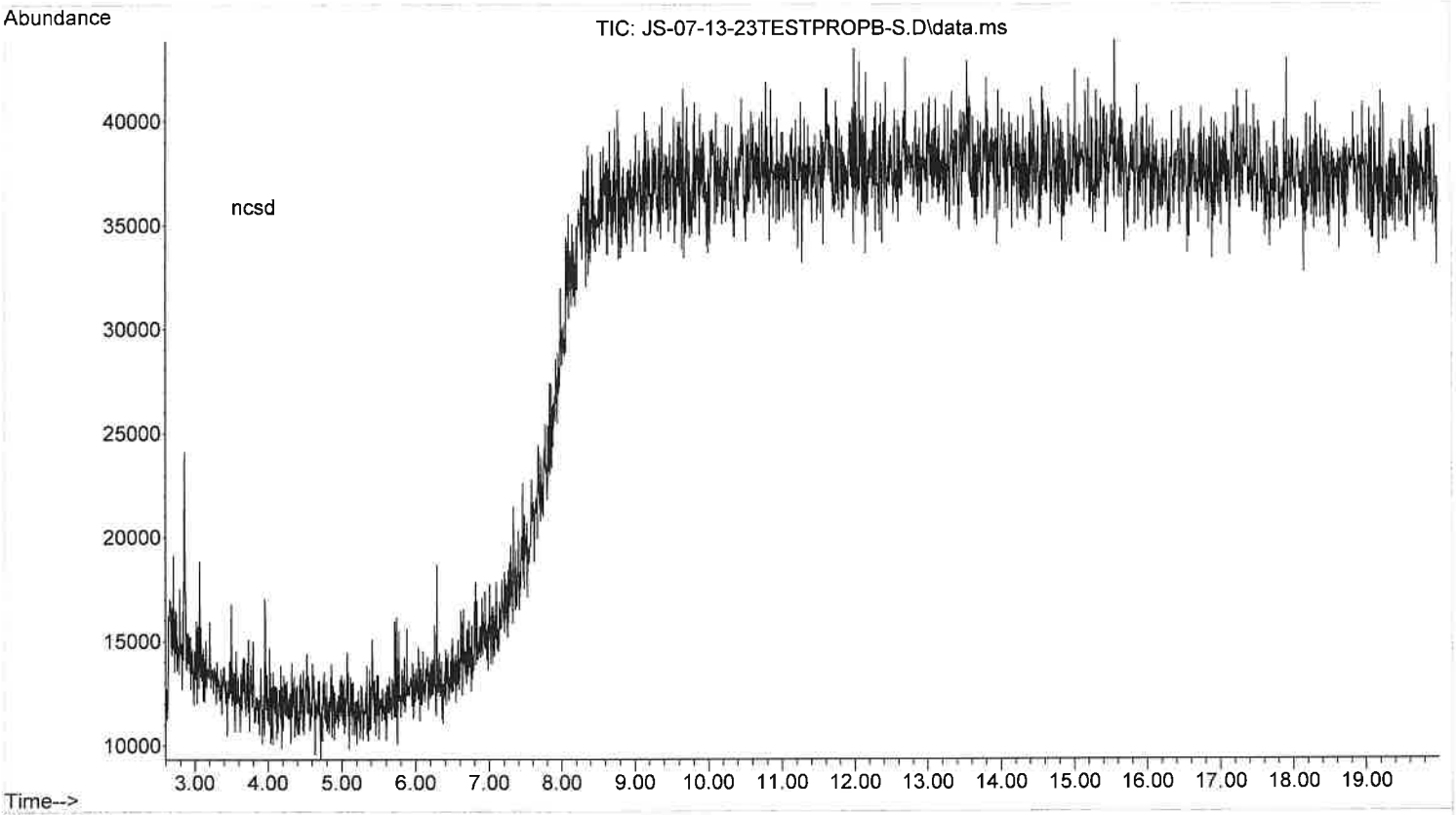



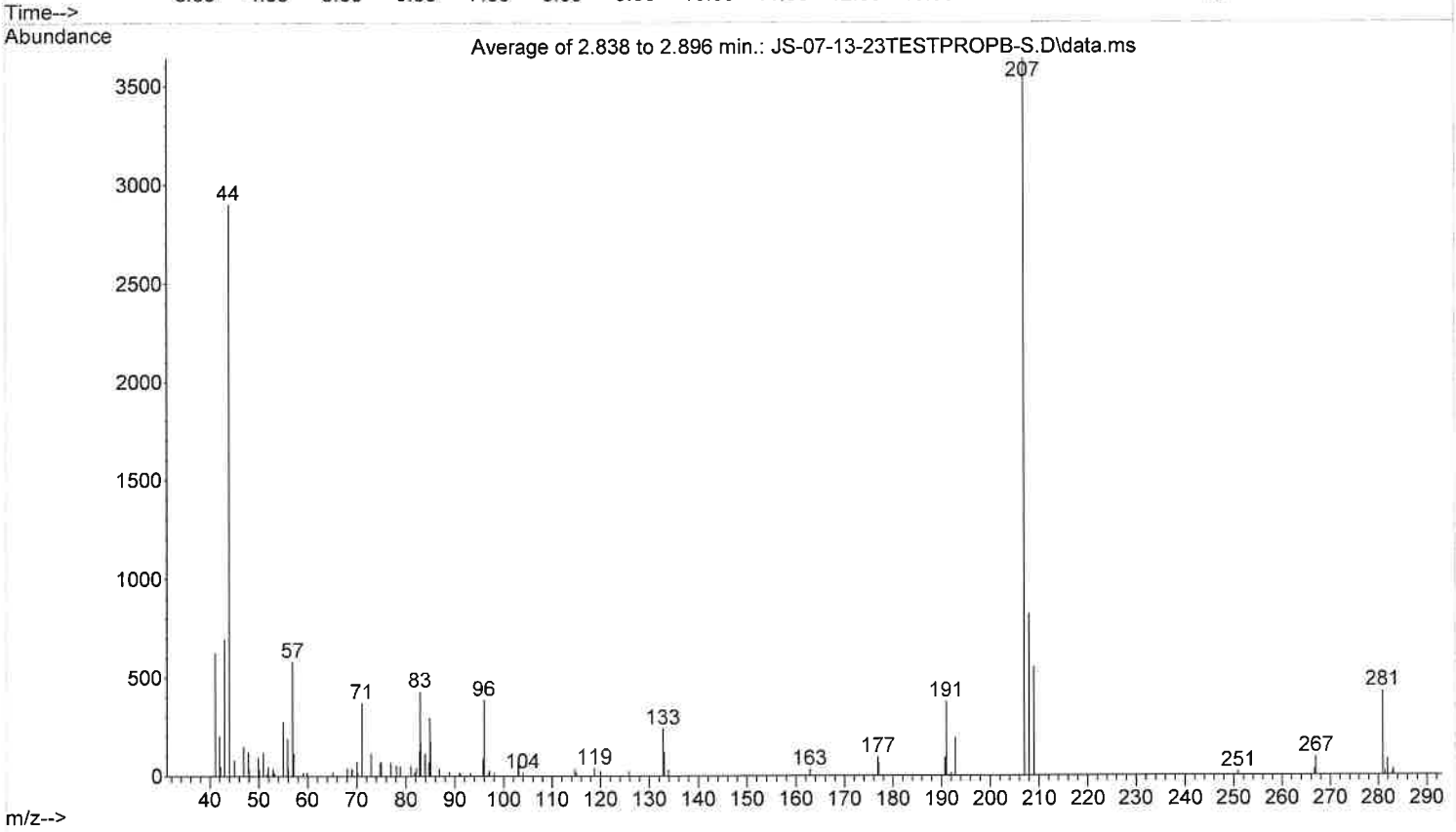
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23TESTPROP-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 19:58 using AcqMethod STEROID.M
Sample Name: TESTOSTERONE PROPIONATE STD
Misc Info : MeOH



File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-13-23\JS-07-13-23TESTPROPB-S.D
Operator : Dobby
Instrument : Dobby
Acquired : 13 Jul 2023 19:35 using AcqMethod STEROID.M
Sample Name: TESTOSTERONE PROPIONATE STD BLANK
Misc Info : MeOH



# METHOD CONTROL PARAMETERS

Method Information for: C:\MassHunter\GCMS\1\methods\THCMS.M

Method Sections To Run:

( ) Save Copy of Method With Data
( ) Instrument Control Pre-Run Cmd/Macro =
( ) Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
(X) Data Analysis
( ) Instrument Control Post-Run Cmd/Macro =
( ) Data Analysis Post-Run Cmd/Macro =

Method Comments:
This is the default method

## END OF METHOD CONTROL PARAMETERS

C:\MassHunter\GCMS\1\methods\THCMS.M
Mon Jul 17 11:39:28 2023

Control Information

| | |
|---|---|
| Sample Inlet | : GC |
| Injection Source | : GC ALS |
| Injection Location: | Front |
| Mass Spectrometer | : Enabled |

No Sample Prep method has been assigned to this method.

GC

| | |
|---|---|
| GC Summary | |
| Run Time | 8 min |
| Post Run Time | 0 min |
| Oven | |
| Temperature | |
| Setpoint | On |
| (Initial) | 200 °C |
| Hold Time | 2 min |
| Post Run | 50 °C |
| Program | |
| #1 Rate | 10 °C/min |
| #1 Value | 240 °C |
| #1 Hold Time | 2 min |
| Equilibration Time | 0.5 min |
| Max Temperature | 325 °C |
| Maximum Temperature Override | Disabled |
| Slow Fan | Disabled |

ALS

| | |
|---|---|
| Front Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 2 |
| Solvent A Washes (PostInj) | 2 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 2 |
| Solvent B Washes (PostInj) | 2 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 2 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |

| | |
|---|---|
| Solvent Wash Mode | A, B |
| | |
| Back Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Sample Overlap | |
| Mode | Sample overlap is not enabled |
| | |
| ALS Errors | Pause for user interaction |
| | |
| Front SS Inlet He | |
| Mode | Split |
| Heater | On 280 °C |
| Pressure | On 26.206 psi |
| Total Flow | On 83.918 mL/min |
| Septum Purge Flow | On 3 mL/min |
| Gas Saver | On 20 After 2 min mL/min |
| Split Ratio | 44 :1 |
| Split Flow | 79.12 mL/min |
| Liner | Agilent 5190-2270: 900 µL (Splitless, single taper, deacti |
| | |
| Back SS Inlet He | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Mode | Split |
| Heater | Off |
| Pressure | Off |
| Total Flow | Off |
| Septum Purge Flow | Off |
| Gas Saver | Off |
| Split Ratio | 1 :1 |
| Split Flow | 0 mL/min |
| Liner | A Liner has not been selected. |
| | |
| Thermal Aux 2 (MSD Transfer Line) | |
| Temperature | |
| Setpoint | On |
| (Initial) | 280 °C |

Column
Column #1
Flow

| | |
|---|---|
| Setpoint | On |
| (Initial) | 1.7982 mL/min |
| Post Run | 1.0812 mL/min |
| | |
| Column Information | Agilent 128-0112 |
| DB-1ms | |
| Temperature Range | -60 °C—340 °C (350 °C) |
| Dimensions | 12 m x 200 µm x 0.33 µm |
| Column lock | Unlocked |
| In | Front SS Inlet He |
| Out | MSD |
| (Initial) | 200 °C |
| Pressure | 26.206 psi |
| Flow | 1.7982 mL/min |
| Average Velocity | 82.132 cm/sec |
| Holdup Time | 0.24351 min |
| Control Mode | Constant Flow |
| | |
| Column #2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 0 psi |
| Post Run | 0 psi |
| | |
| Column Information | Agilent 19091Z-211 |
| HP-1 | |
| Temperature Range | -60 °C—325 °C (350 °C) |
| Dimensions | 15 m x 320 µm x 1 µm |
| Column lock | Unlocked |
| In | Back SS Inlet He |
| Out | Front Detector FID |
| (Initial) | 200 °C |
| Pressure | 0 psi |
| Flow | 0 mL/min |
| Average Velocity | 0 cm/sec |
| Holdup Time | ∞ min |
| Control Mode | Constant Pressure |
| | |
| Column Outlet Pressure | 0 psi |
| | |
| Front Detector FID | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Makeup | N2 |
| Heater | Off |
| H2 Flow | Off |
| Air Flow | Off |
| Makeup Flow | Off |
| Carrier Gas Flow Correction | Constant Makeup and Fuel Flow |
| Flame | Off |
| | |
| Aux EPC 1,2,3 | |
| Aux EPC 1 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| | |
| Aux EPC 2 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |

| | |
|---|---|
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Aux EPC 3 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

Signals
Signal #1: Test Plot

| | |
|---|---|
| Description | Test Plot |
| Save | Off |
| Data Rate | 50 Hz |
| Dual Injection Assignment | Front Sample |

Signal #2:

| | |
|---|---|
| Description | None |

Signal #3:

| | |
|---|---|
| Description | None |

Signal #4:

| | |
|---|---|
| Description | None |

TUNE PARAMETERS for SN: US1439L407

Trace Ion Detection is OFF.

| | | |
|---|---|---|
| 34.593 | : | EMISSION |
| 70.007 | : | ENERGY |
| 34.899 | : | REPELLER |
| 90.331 | : | IONFOCUS |
| 20.181 | : | ENTRANCE_LENS |
| 963.560 | : | EMVOLTS |
| 1151.3 | : | Actual EMV |
| 2.60 | : | GAIN FACTOR |
| 1322.000 | : | AMUGAIN |
| 123.750 | : | AMUOFFSET |
| 1.000 | : | FILAMENT |
| 0.000 | : | DCPOLARITY |
| 15.312 | : | ENTLENSOFFSET |
| 0.000 | : | Ion_Body |
| 0.000 | : | EXTLENS |
| -468.000 | : | MASSGAIN |
| -36.000 | : | MASSOFFSET |

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

## DATA ANALYSIS PARAMETERS

Method Name: C:\MassHunter\GCMS\1\methods\THCMS.M

### Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

### Qualitative Report Settings

Peak Location of Unknown: Apex

| Library to Search | Minimum Quality |
|---|---|
| DEMO.L | 0 |

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

### Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

Calibration Last Updated:

Reference Window: 10.00 Percent
Non-Reference Window: 5.00 Percent
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Mon Jul 17 11:39:33 2023

# Single Quadrupole Acquisition Method - MS Parameters Report

| | |
|---|---|
| **Method file** | C:\MassHunter\GCMS\1\methods\THCMS.M |
| **Tune file** | ATUNE.U |
| **Ion source** | EI |
| **Source temperature (°C)** | 230 |
| **Quad temperature (°C)** | 150 |
| **Fixed Electron energy (eV)** | 70.0 |
| **Acquisition Type** | Scan |
| **Stop time (min)** | 10.00 |
| **Solvent delay (min)** | 1.00 |
| **Trace Ion Detection** | False |
| **Gain Factor** | 2.6 |
| **EM Saver** | False |
| **EM Saver Limit** | N/A |

**Scan Time Segments**

| Time | Start Mass | End Mass | Threshold | Scan Speed |
|---|---|---|---|---|
| 1.00 | 40 | 550 | 70 | 3,125 [N=1] |

**Timed Events**

| Time | Type of Event | Parameter |
|---|---|---|

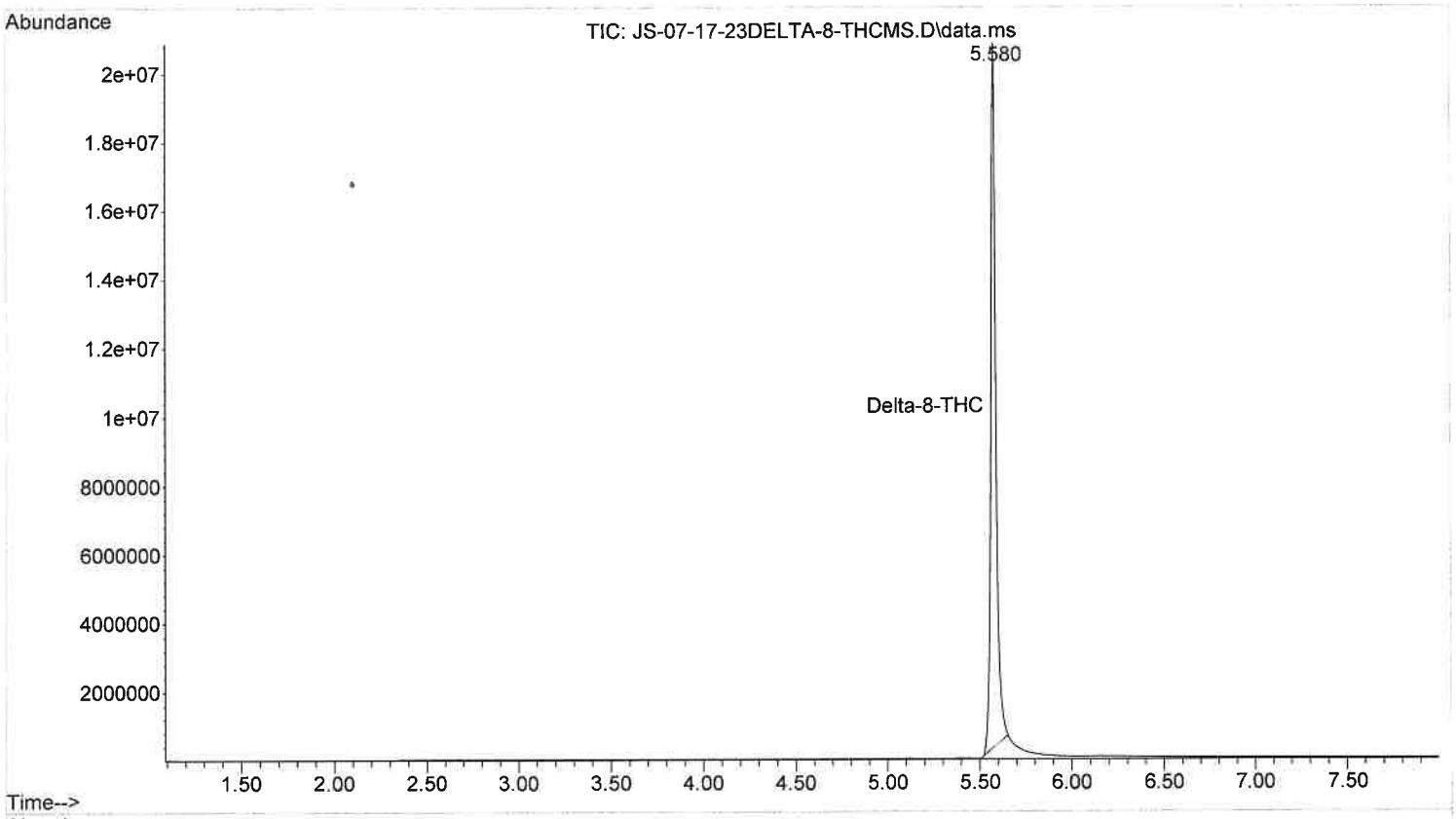
**Real-Time Plots**

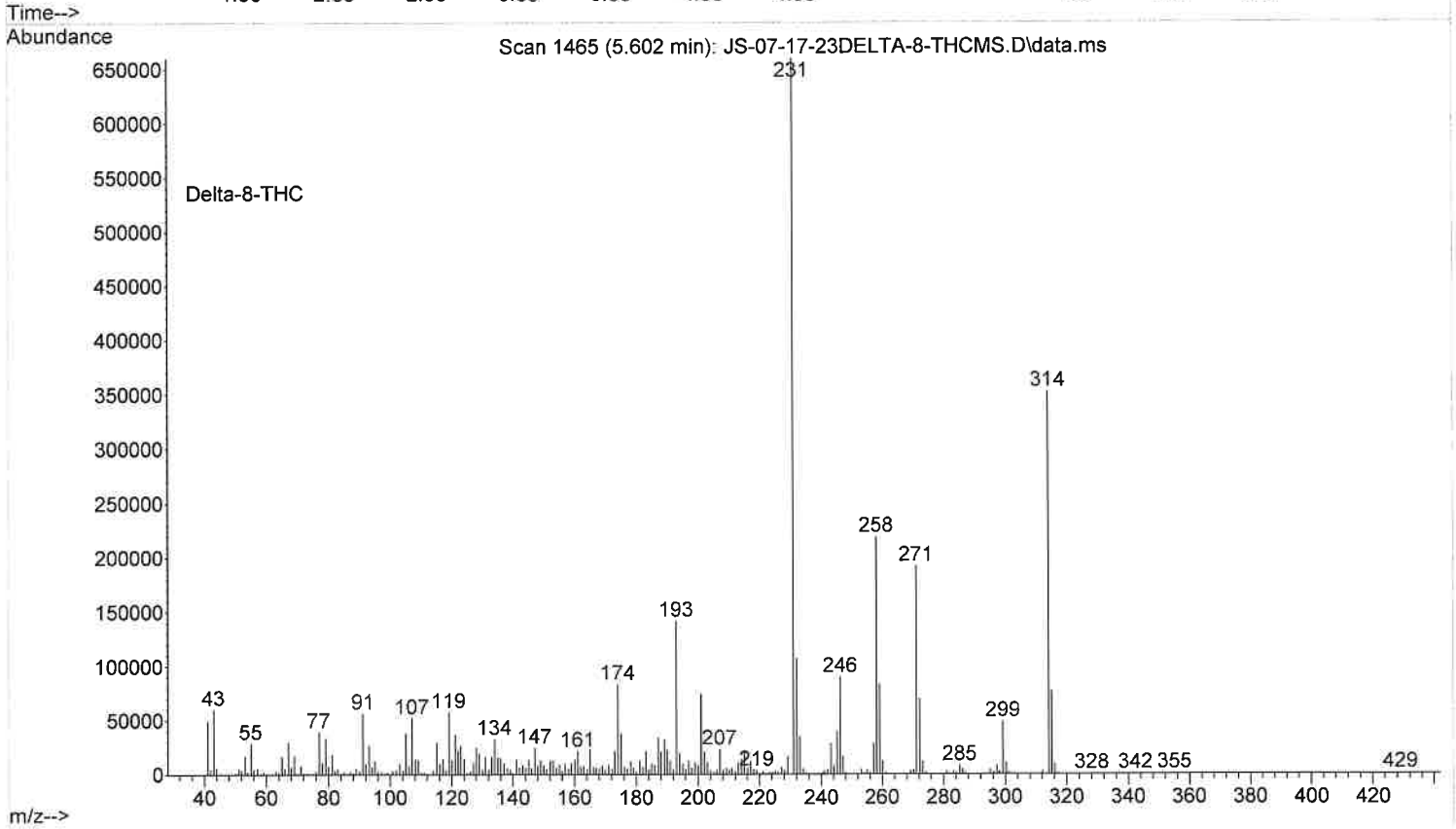
| Type of Plot | Label | Low Mass | High Mass |
|---|---|---|---|
| Total Ion | N/A | N/A | N/A |
| Spectrum | N/A | N/A | N/A |
| Extracted Ion | Scan 1-1 | 50 | 550 |
| Extracted Ion | Scan 1-2 | 40 | 550 |

**Self-Cleaning Ion Source Parameters**

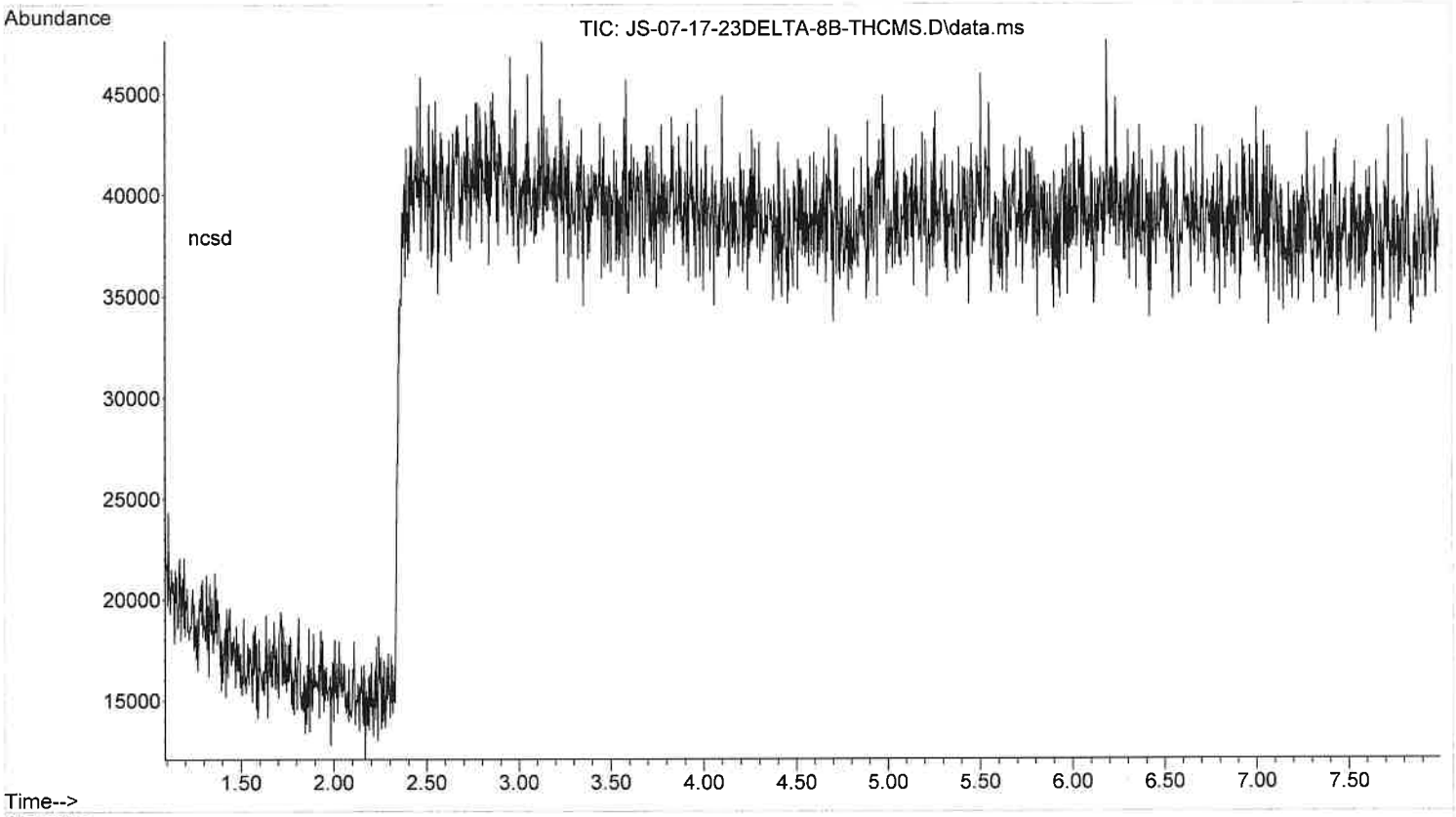
| | |
|---|---|
| Mode | No Cleaning |

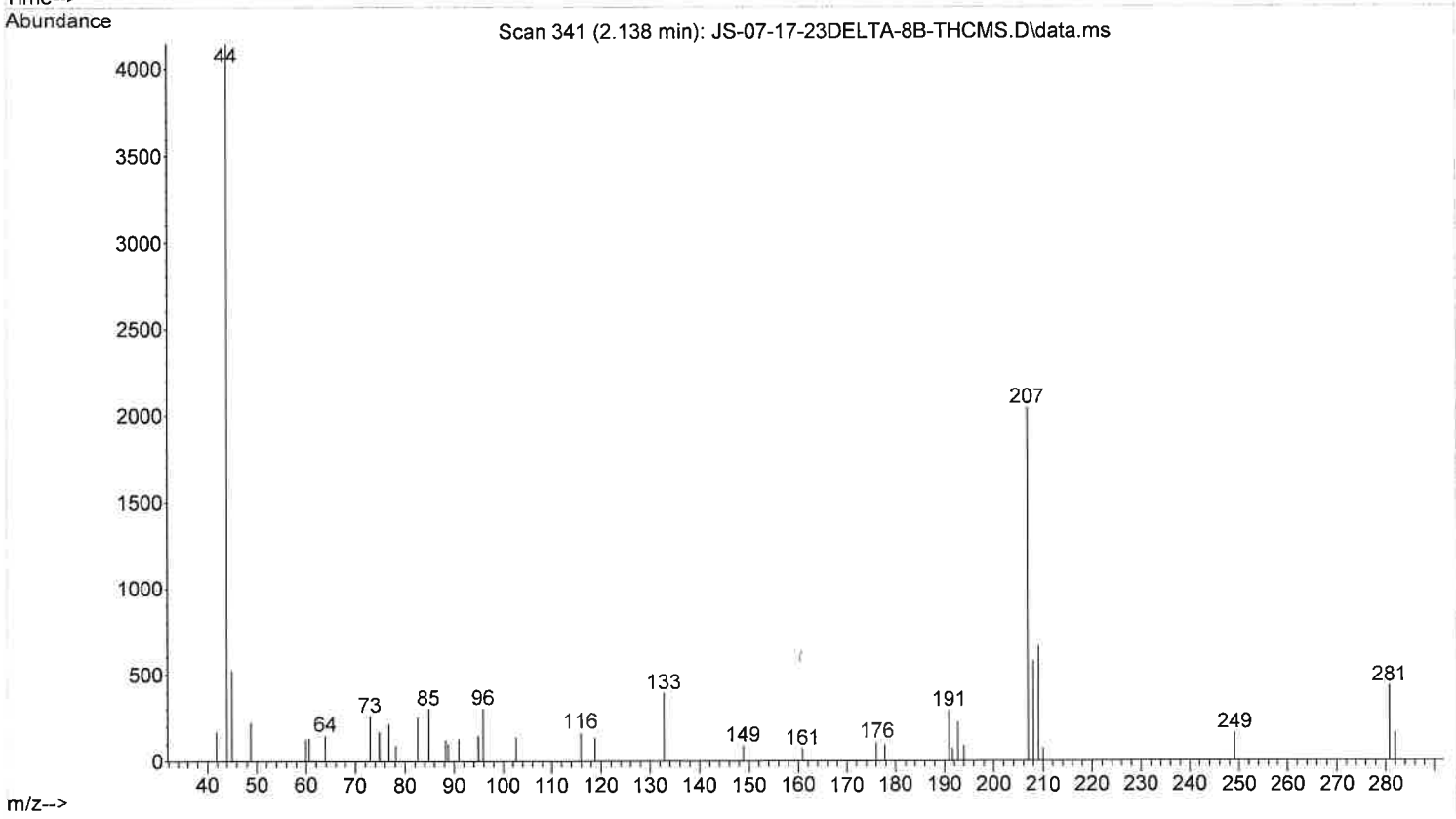
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-17-23\JS-07-17-23DELTA-8-THCMS.D
Operator : Dobby
Instrument : Dobby
Acquired : 17 Jul 2023 10:46 using AcqMethod THCMS.M
Sample Name: DELTA-8-THC STD
Misc Info : MeOH



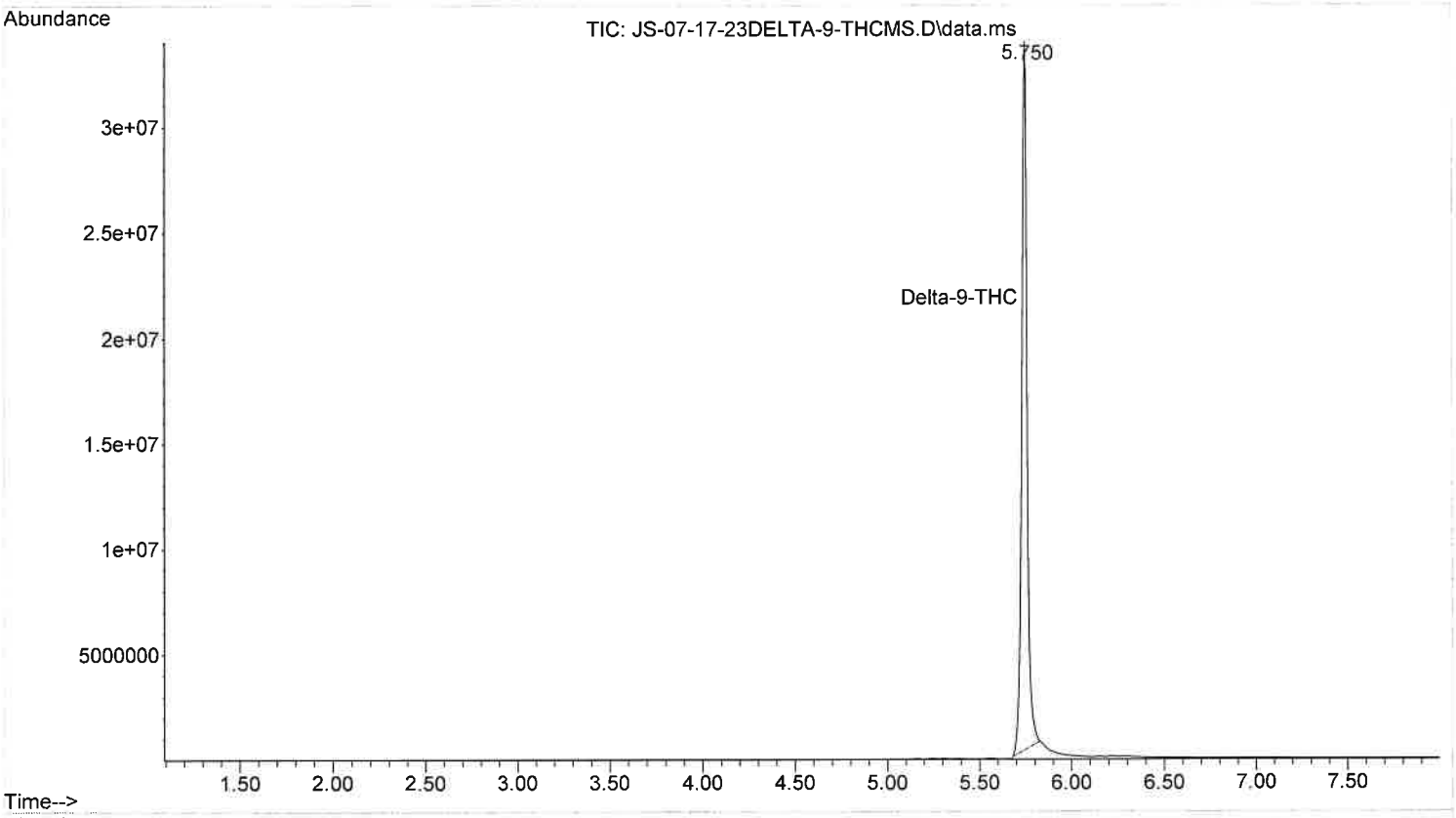



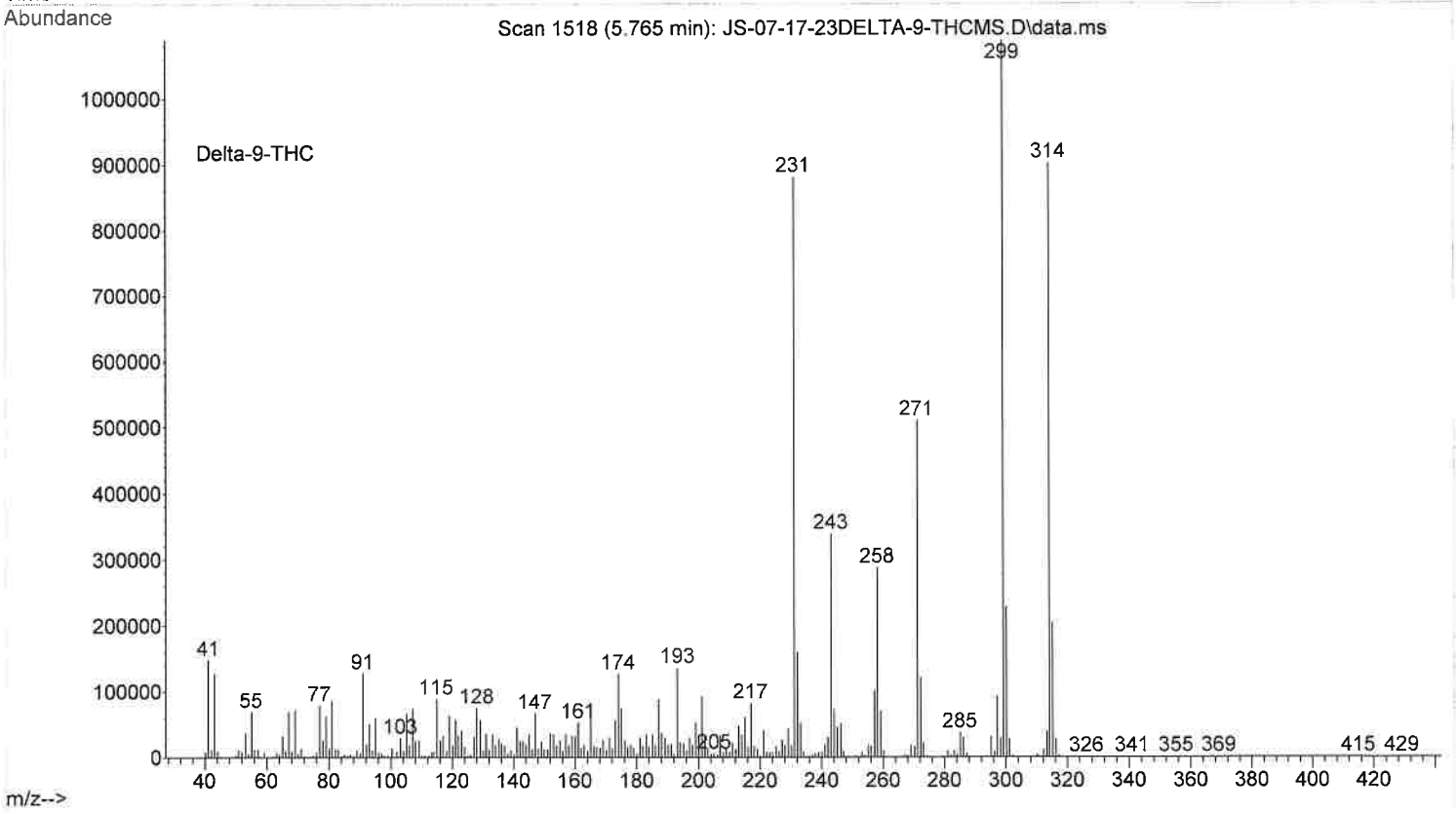
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-17-23\JS-07-17-23DELTA-8B-THCMS.D
Operator : Dobby
Instrument : Dobby
Acquired : 17 Jul 2023 10:35 using AcqMethod THCMS.M
Sample Name: DELTA-8-THC STD BLANK
Misc Info : MeOH



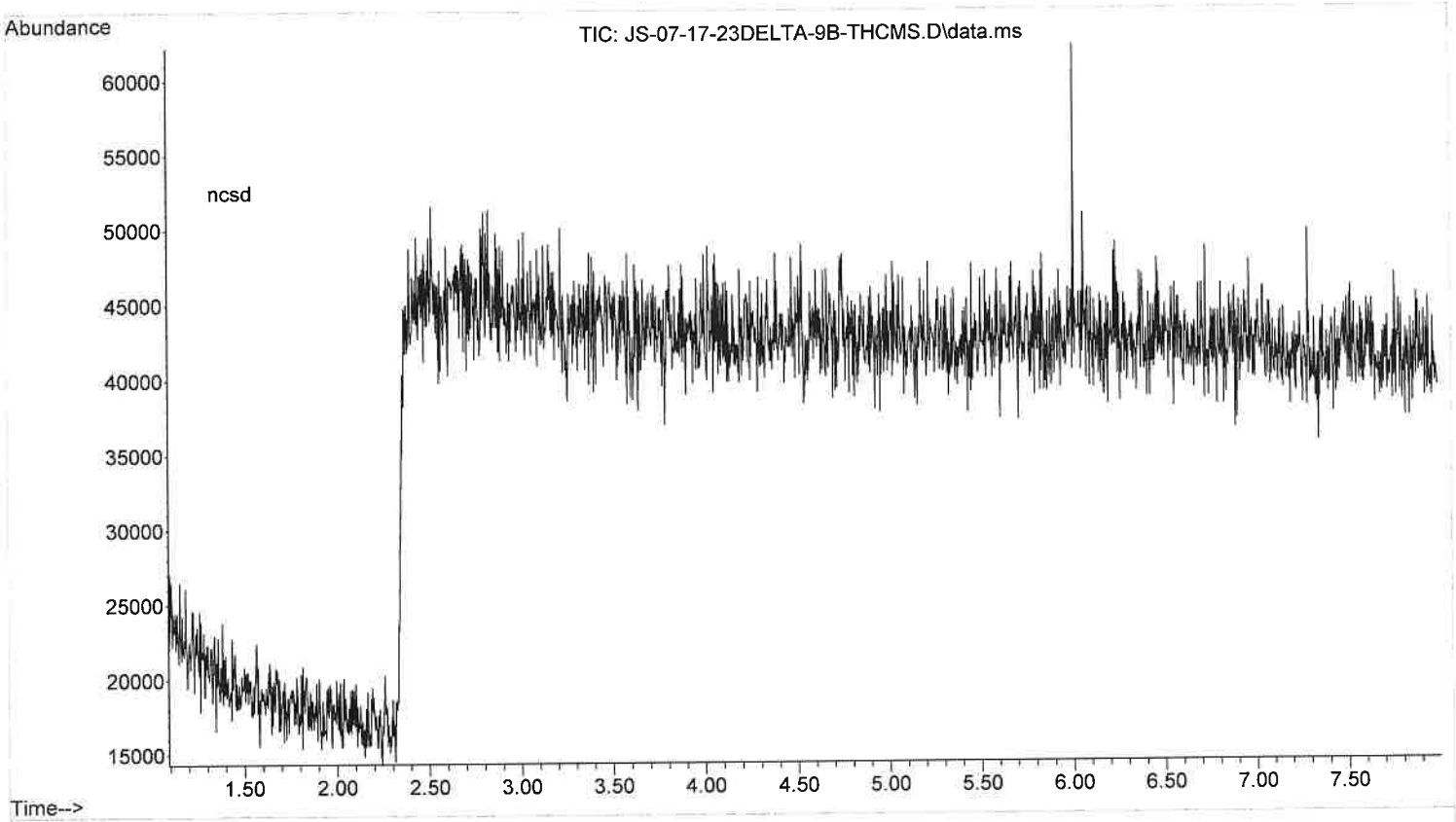



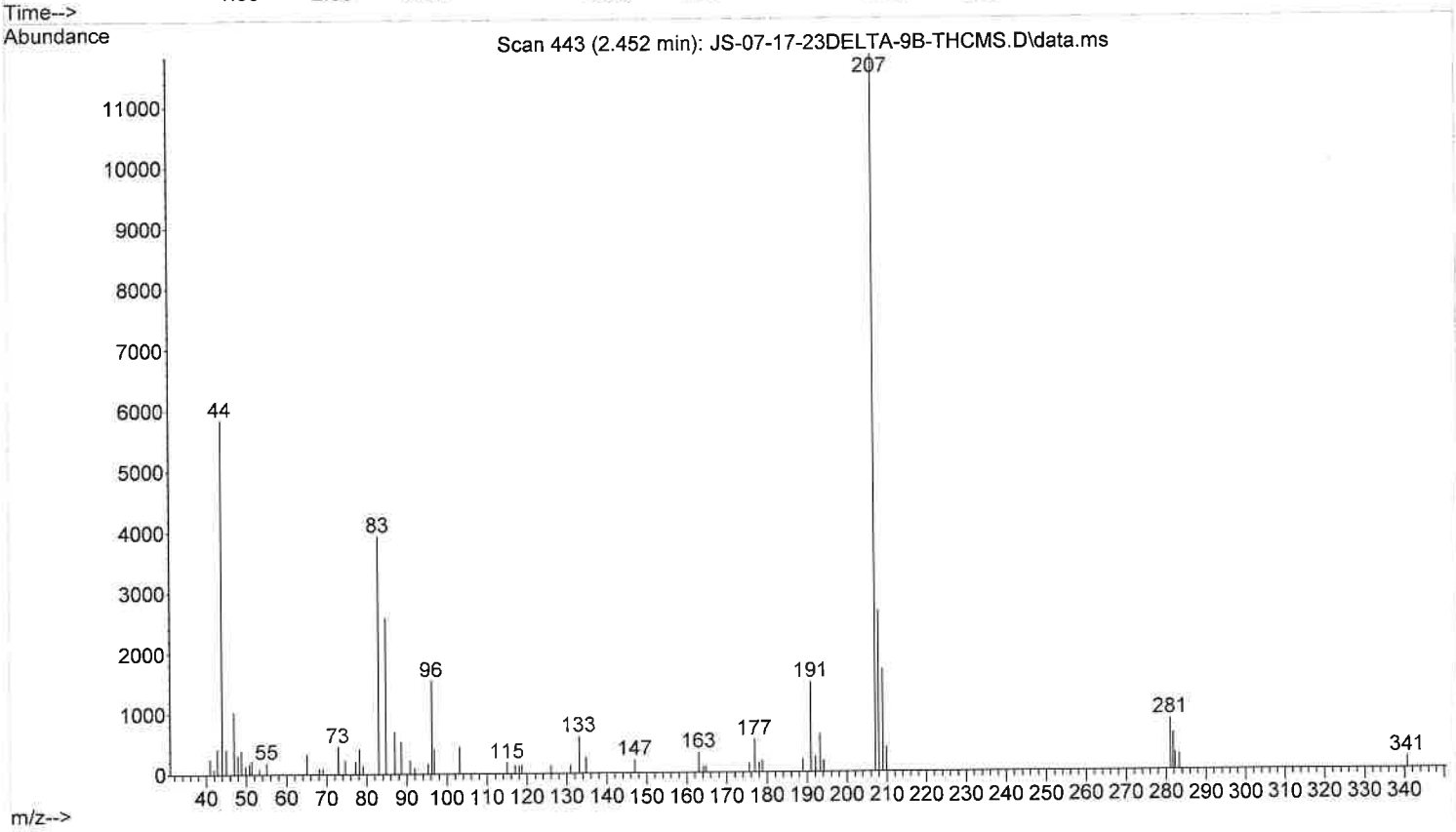
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-17-23\JS-07-17-23DELTA-9-THCMS.D
Operator : Dobby
Instrument : Dobby
Acquired : 17 Jul 2023 10:15 using AcqMethod THCMS.M
Sample Name: DELTA-9-THC ~~BLANK~~ STD
Misc Info : MeOH



File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-17-23\JS-07-17-23DELTA-9B-THCMS.D
Operator : Dobby
Instrument : Dobby
Acquired : 17 Jul 2023 10:05 using AcqMethod THCMS.M
Sample Name: DELTA-9-THC STD BLANK
Misc Info : MeOH



# METHOD CONTROL PARAMETERS

Method Information for: C:\MassHunter\GCMS\1\methods\XLDRUGS.M

Method Sections To Run:

( ) Save Copy of Method With Data
( ) Instrument Control Pre-Run Cmd/Macro =
( ) Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
(X) Data Analysis
( ) Instrument Control Post-Run Cmd/Macro =
( ) Data Analysis Post-Run Cmd/Macro =

Method Comments:
This is the default method

## END OF METHOD CONTROL PARAMETERS

INSTRUMENT CONTROL PARAMETERS: Dobby

C:\MassHunter\GCMS\1\methods\XLDRUGS.M
Mon Jul 17 11:40:34 2023

Control Information

| | |
|---|---|
| Sample Inlet | : GC |
| Injection Source | : GC ALS |
| Injection Location: | Front |
| Mass Spectrometer | : Enabled |

No Sample Prep method has been assigned to this method.

GC

| | |
|---|---|
| GC Summary | |
| Run Time | 28.058 min |
| Post Run Time | 0 min |
| Oven | |
| Temperature | |
| Setpoint | On |
| (Initial) | 70 °C |
| Hold Time | 0 min |
| Post Run | 80 °C |
| Program | |
| #1 Rate | 15 °C/min |
| #1 Value | 150 °C |
| #1 Hold Time | 3 min |
| #2 Rate | 40 °C/min |
| #2 Value | 299 °C |
| #2 Hold Time | 16 min |
| Equilibration Time | 0 min |
| Max Temperature | 325 °C |
| Maximum Temperature Override | Disabled |
| Slow Fan | Disabled |

ALS

| | |
|---|---|
| Front Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |

| | |
|---|---|
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Back Injector | |
| Syringe Size | 10 µL |
| Injection Volume | 1 µL |
| Solvent A Washes (PreInj) | 1 |
| Solvent A Washes (PostInj) | 1 |
| Solvent A Volume | 8 µL |
| Solvent B Washes (PreInj) | 1 |
| Solvent B Washes (PostInj) | 1 |
| Solvent B Volume | 8 µL |
| Sample Washes | 1 |
| Sample Wash Volume | 8 µL |
| Sample Pumps | 1 |
| Dwell Time (PreInj) | 0 min |
| Dwell Time (PostInj) | 0 min |
| Solvent Wash Draw Speed | 300 µL/min |
| Solvent Wash Dispense Speed | 6000 µL/min |
| Sample Wash Draw Speed | 300 µL/min |
| Sample Wash Dispense Speed | 6000 µL/min |
| Injection Dispense Speed | 6000 µL/min |
| Viscosity Delay | 0 sec |
| Sample Depth | Disabled |
| Injection Type | Standard |
| L1 Airgap | 0.2 µL |
| Solvent Wash Mode | A, B |
| | |
| Sample Overlap | |
| Mode | Sample overlap is not enabled |
| | |
| ALS Errors | Pause for user interaction |
| | |
| Front SS Inlet He | |
| Mode | Split |
| Heater | On 250 °C |
| Pressure | On 8.592 psi |
| Total Flow | On 44 mL/min |
| Septum Purge Flow | On 3 mL/min |
| Gas Saver | On 20 After 2 min mL/min |
| Split Ratio | 39.9999274271017 :1 |
| Split Flow | 40 mL/min |
| Liner | Agilent 5190-2270: 900 µL (Splitless, single taper, deacti |
| | |
| Back SS Inlet He | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Mode | Split |
| Heater | Off |
| Pressure | Off |
| Total Flow | Off |
| Septum Purge Flow | Off |
| Gas Saver | Off |
| Split Ratio | 1 :1 |
| Split Flow | 0 mL/min |
| Liner | A Liner has not been selected. |
| | |
| Thermal Aux 2 (MSD Transfer Line) | |
| Temperature | |
| Setpoint | On |
| (Initial) | 280 °C |

| | |
|---|---|
| Column | |
| Column #1 | |
| Flow | |
| Setpoint | On |
| (Initial) | 1 mL/min |
| Post Run | 1.0812 mL/min |
| | |
| Column Information | Agilent 128-0112 |
| DB-1ms | |
| Temperature Range | -60 °C—340 °C (350 °C) |
| Dimensions | 12 m x 200 µm x 0.33 µm |
| Column lock | Unlocked |
| In | Front SS Inlet He |
| Out | MSD |
| (Initial) | 70 °C |
| Pressure | 8.592 psi |
| Flow | 1 mL/min |
| Average Velocity | 58.18 cm/sec |
| Holdup Time | 0.34376 min |
| Control Mode | Constant Flow |
| | |
| Column #2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 0 psi |
| Post Run | 0 psi |
| | |
| Column Information | Agilent 19091Z-211 |
| HP-1 | |
| Temperature Range | -60 °C—325 °C (350 °C) |
| Dimensions | 15 m x 320 µm x 1 µm |
| Column lock | Unlocked |
| In | Back SS Inlet He |
| Out | Front Detector FID |
| (Initial) | 70 °C |
| Pressure | 0 psi |
| Flow | 0 mL/min |
| Average Velocity | 0 cm/sec |
| Holdup Time | ∞ min |
| Control Mode | Constant Pressure |
| | |
| Column Outlet Pressure | 0 psi |
| | |
| Front Detector FID | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| Makeup | N2 |
| Heater | Off |
| H2 Flow | Off |
| Air Flow | Off |
| Makeup Flow | Off |
| Carrier Gas Flow Correction | Constant Makeup and Fuel Flow |
| Flame | Off |
| | |
| Aux EPC 1,2,3 | |
| Aux EPC 1 N2 | |
| Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| | |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |
| | |
| Aux EPC 2 N2 | |
| Pressure | |

| | |
|---|---|
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

| | |
|---|---|
| Aux EPC 3 N2 Pressure | |
| Setpoint | Off |
| (Initial) | 10 psi |
| Post Run | 0 psi |
| Excluded from Readiness | ***Excluded from Affecting GC's Readiness State*** |

| | |
|---|---|
| Signals | |
| Signal #1: Test Plot | |
| Description | Test Plot |
| Save | Off |
| Data Rate | 50 Hz |
| Dual Injection Assignment | Front Sample |
| Signal #2: | |
| Description | None |
| Signal #3: | |
| Description | None |
| Signal #4: | |
| Description | None |

TUNE PARAMETERS for SN: US1439L407

Trace Ion Detection is OFF.

| | | |
|---|---|---|
| 34.593 | : | EMISSION |
| 70.007 | : | ENERGY |
| 34.899 | : | REPELLER |
| 90.331 | : | IONFOCUS |
| 20.181 | : | ENTRANCE_LENS |
| 963.560 | : | EMVOLTS |
| 1151.3 | : | Actual EMV |
| 2.60 | : | GAIN FACTOR |
| 1322.000 | : | AMUGAIN |
| 123.750 | : | AMUOFFSET |
| 1.000 | : | FILAMENT |
| 0.000 | : | DCPOLARITY |
| 15.312 | : | ENTLENSOFFSET |
| 0.000 | : | Ion_Body |
| 0.000 | : | EXTLENS |
| -468.000 | : | MASSGAIN |
| -36.000 | : | MASSOFFSET |

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

## DATA ANALYSIS PARAMETERS

Method Name: C:\MassHunter\GCMS\1\methods\XLDRUGS.M

### Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

### Qualitative Report Settings

Peak Location of Unknown: Apex

| Library to Search | Minimum Quality |
|---|---|
| DEMO.L | 0 |

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

### Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

Calibration Last Updated:

Reference Window: 10.00 Percent
Non-Reference Window: 5.00 Percent
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Mon Jul 17 11:40:40 2023

# Single Quadrupole Acquisition Method - MS Parameters Report

| | |
|---|---|
| **Method file** | C:\MassHunter\GCMS\1\methods\XLDRUGS.M |
| **Tune file** | ATUNE.U |
| **Ion source** | EI |
| **Source temperature (°C)** | 230 |
| **Quad temperature (°C)** | 150 |
| **Fixed Electron energy (eV)** | 70.0 |
| **Acquisition Type** | Scan |
| **Stop time (min)** | 10.00 |
| **Solvent delay (min)** | 2.00 |
| **Trace Ion Detection** | False |
| **Gain Factor** | 2.6 |
| **EM Saver** | False |
| **EM Saver Limit** | N/A |

**Scan Time Segments**

| Time | Start Mass | End Mass | Threshold | Scan Speed |
|---|---|---|---|---|
| 2.00 | 40 | 500 | 150 | 1,562 [N=2] |

**Timed Events**

| Time | Type of Event | Parameter |
|---|---|---|

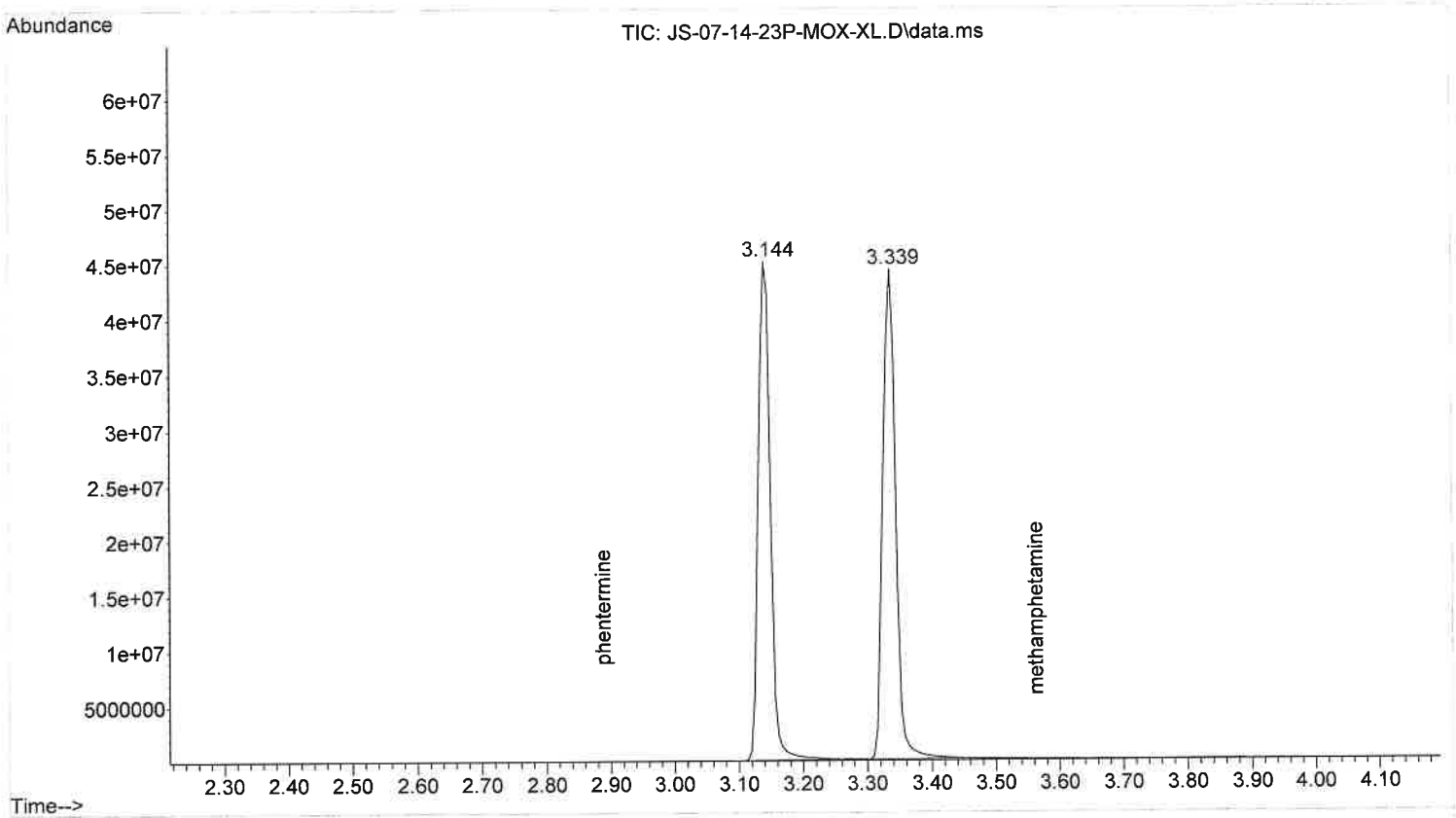
**Real-Time Plots**

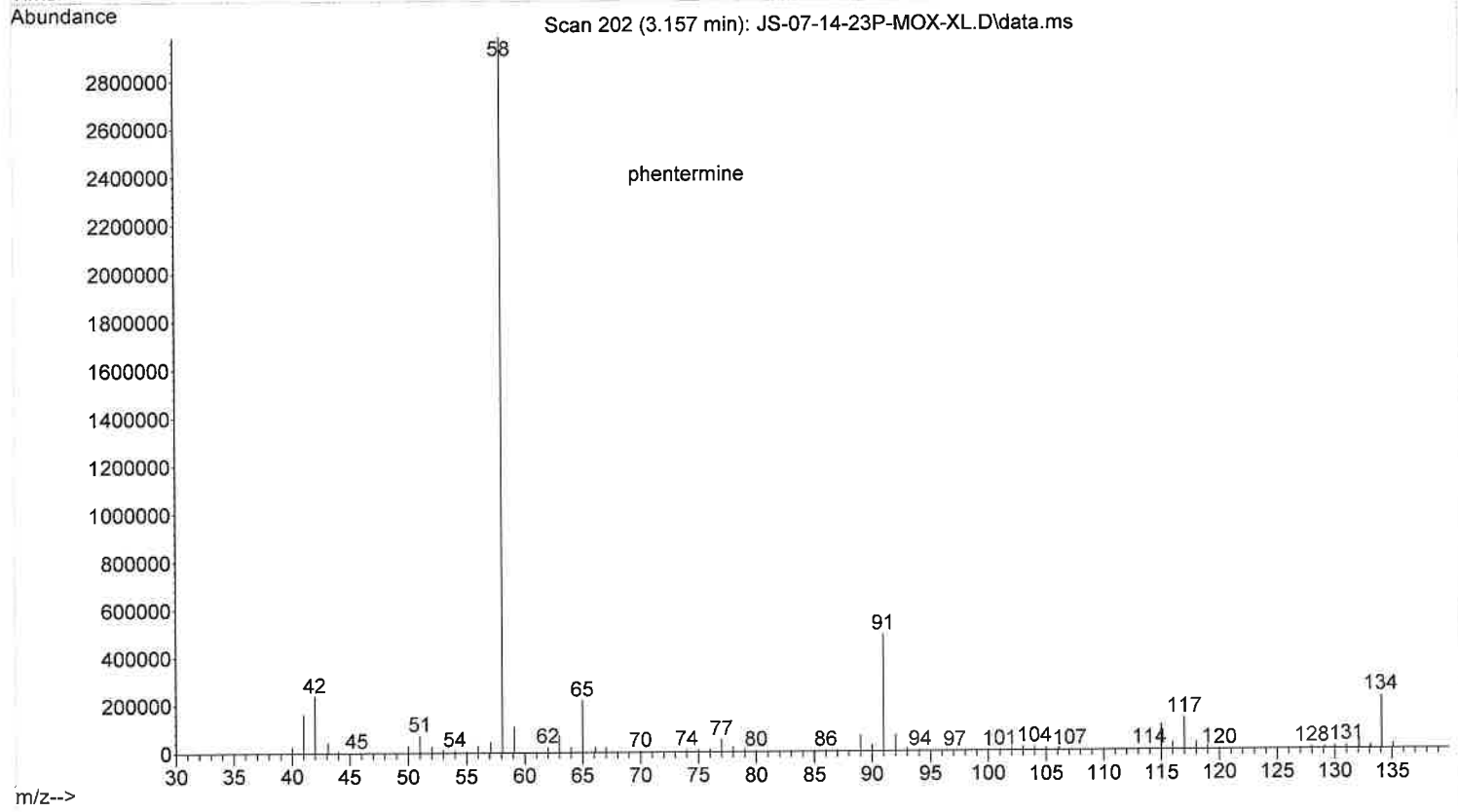
| Type of Plot | Label | Low Mass | High Mass |
|---|---|---|---|
| Total Ion | N/A | N/A | N/A |
| Spectrum | N/A | N/A | N/A |
| Extracted Ion | Scan 1-1 | 50 | 550 |
| Extracted Ion | Scan 1-2 | 40 | 550 |

**Self-Cleaning Ion Source Parameters**

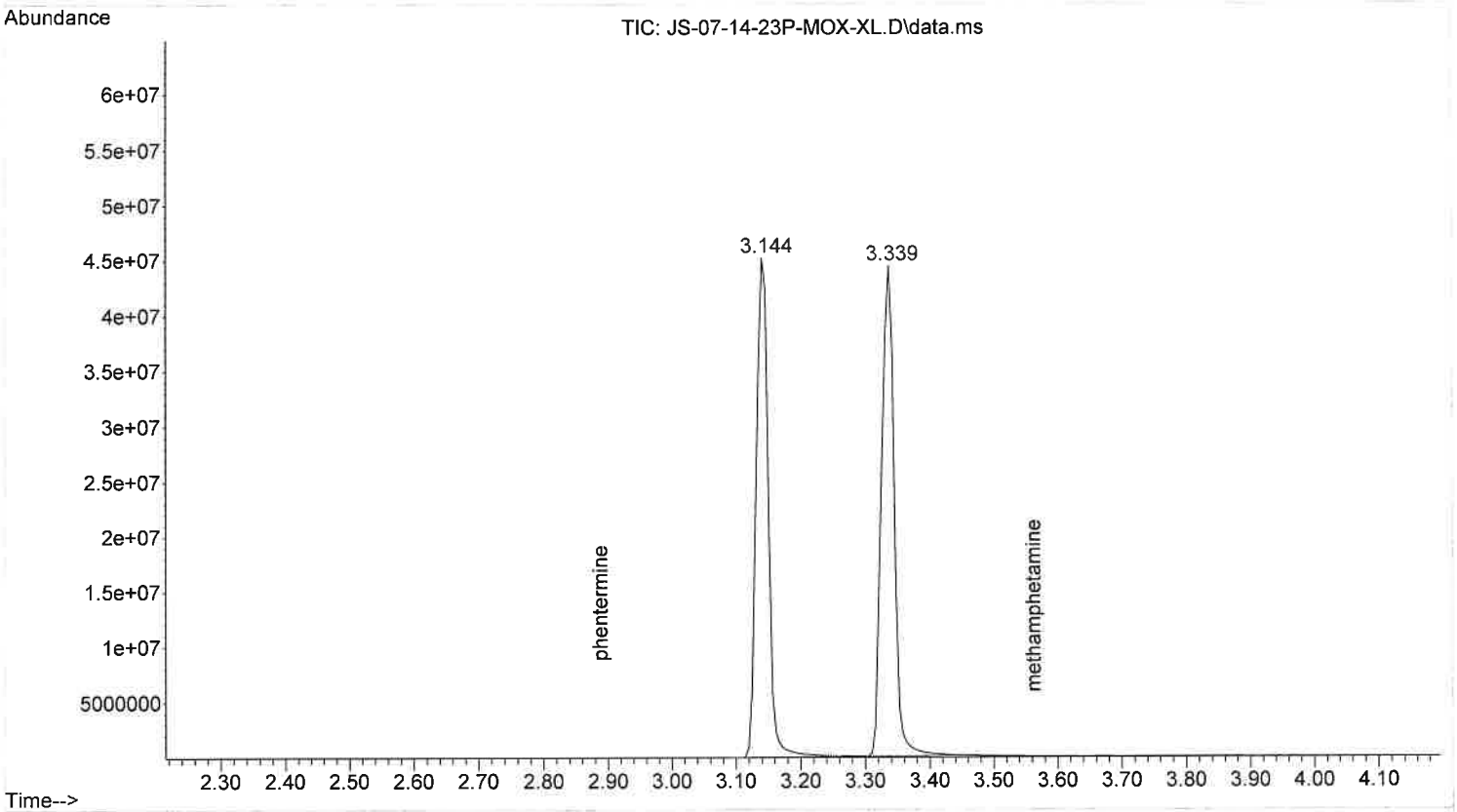
| | |
|---|---|
| Mode | No Cleaning |

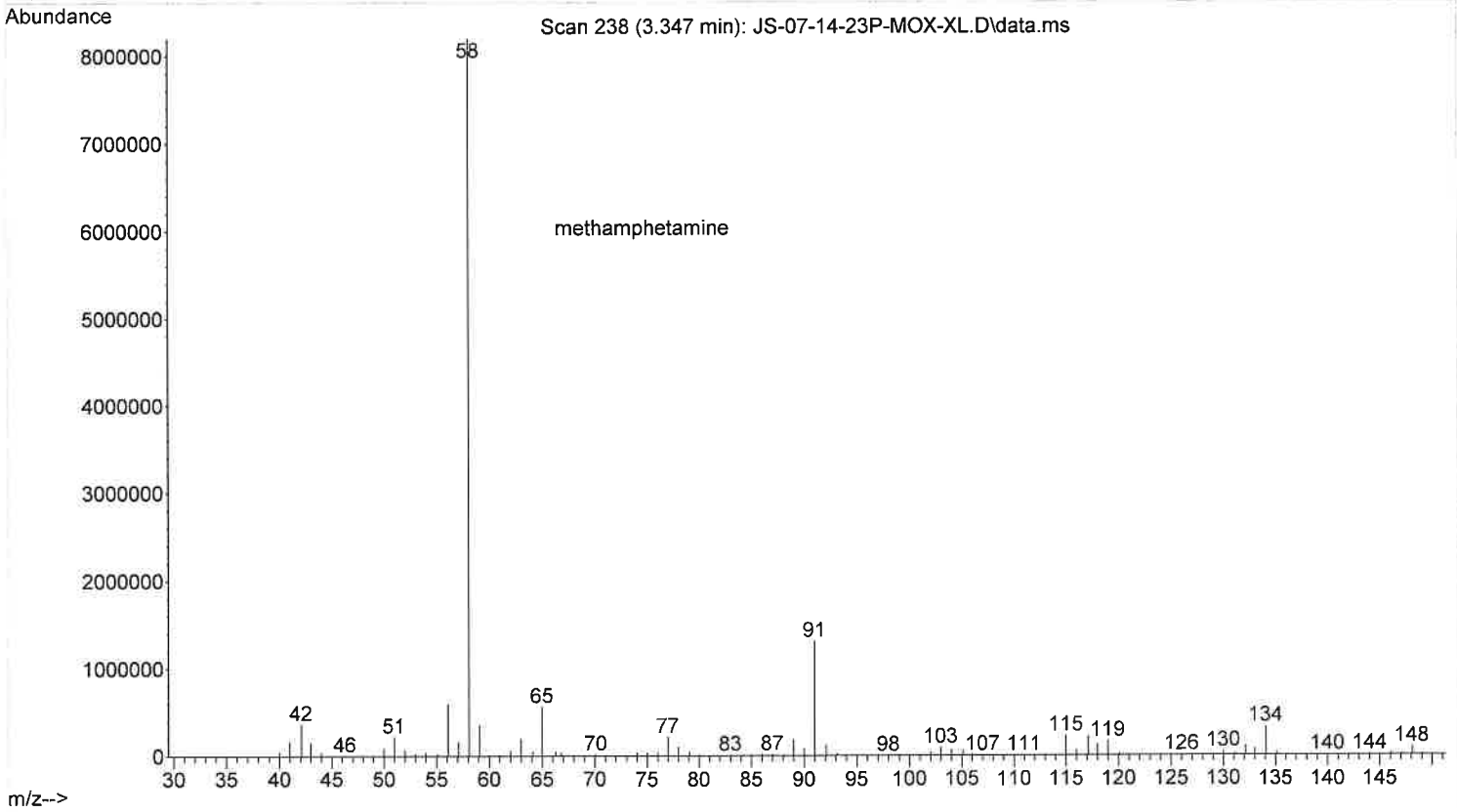
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23P-MOX-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 10:26 using AcqMethod XLDRUGS.M
Sample Name: P-MOX STD
Misc Info : CHCl3



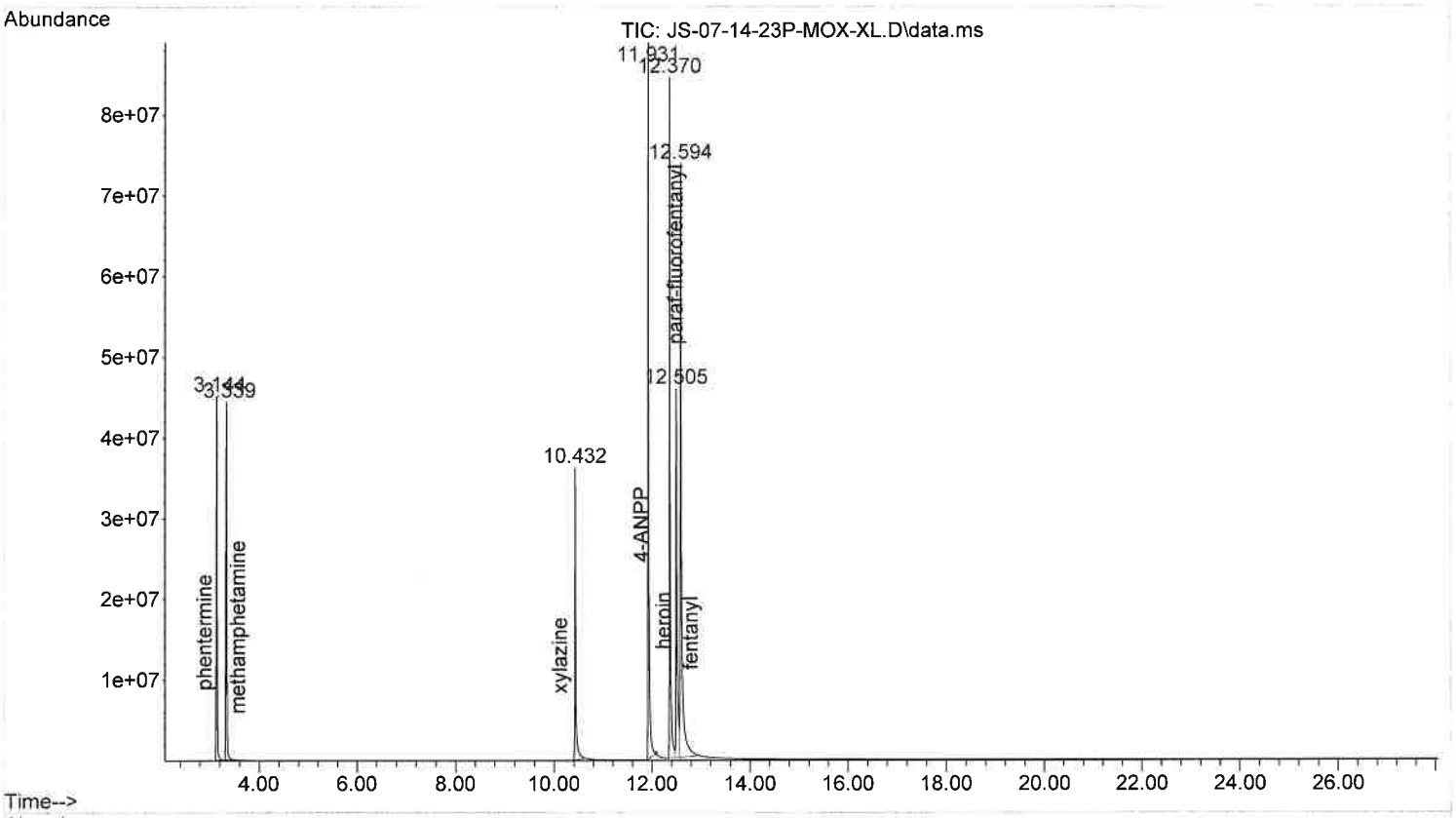



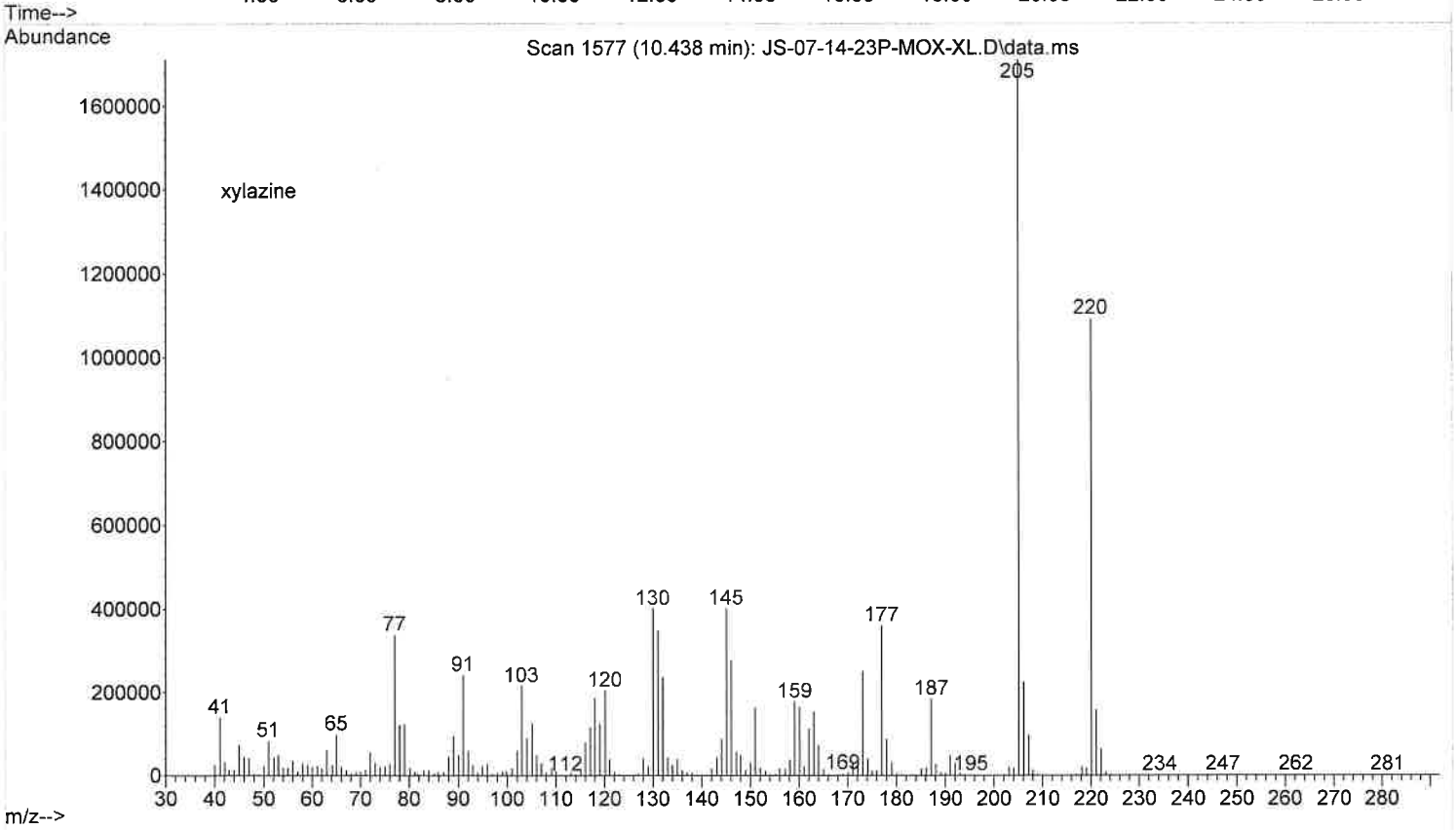
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23P-MOX-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 10:26 using AcqMethod XLDRUGS.M
Sample Name: P-MOX STD
Misc Info : CHCl3



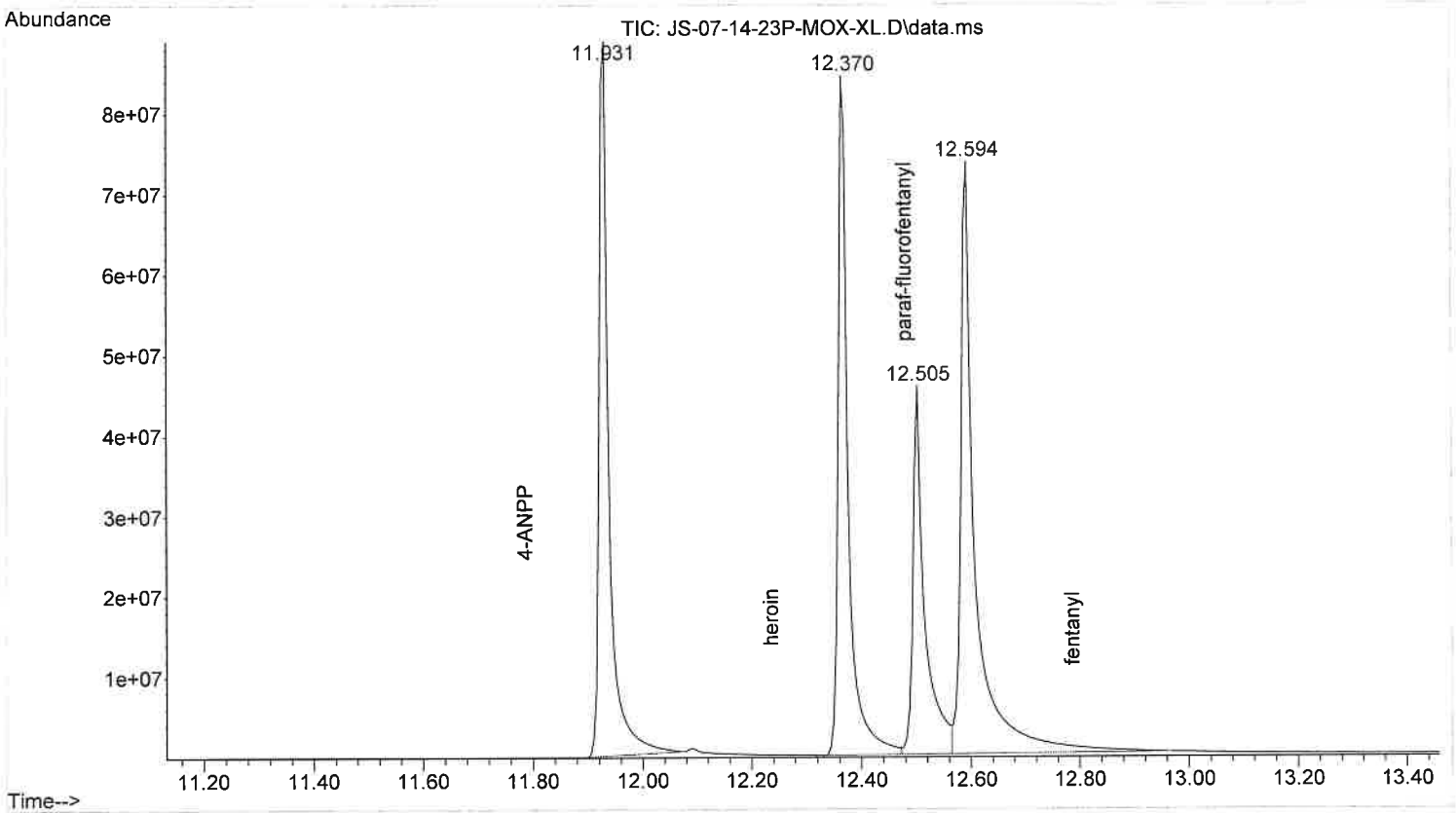



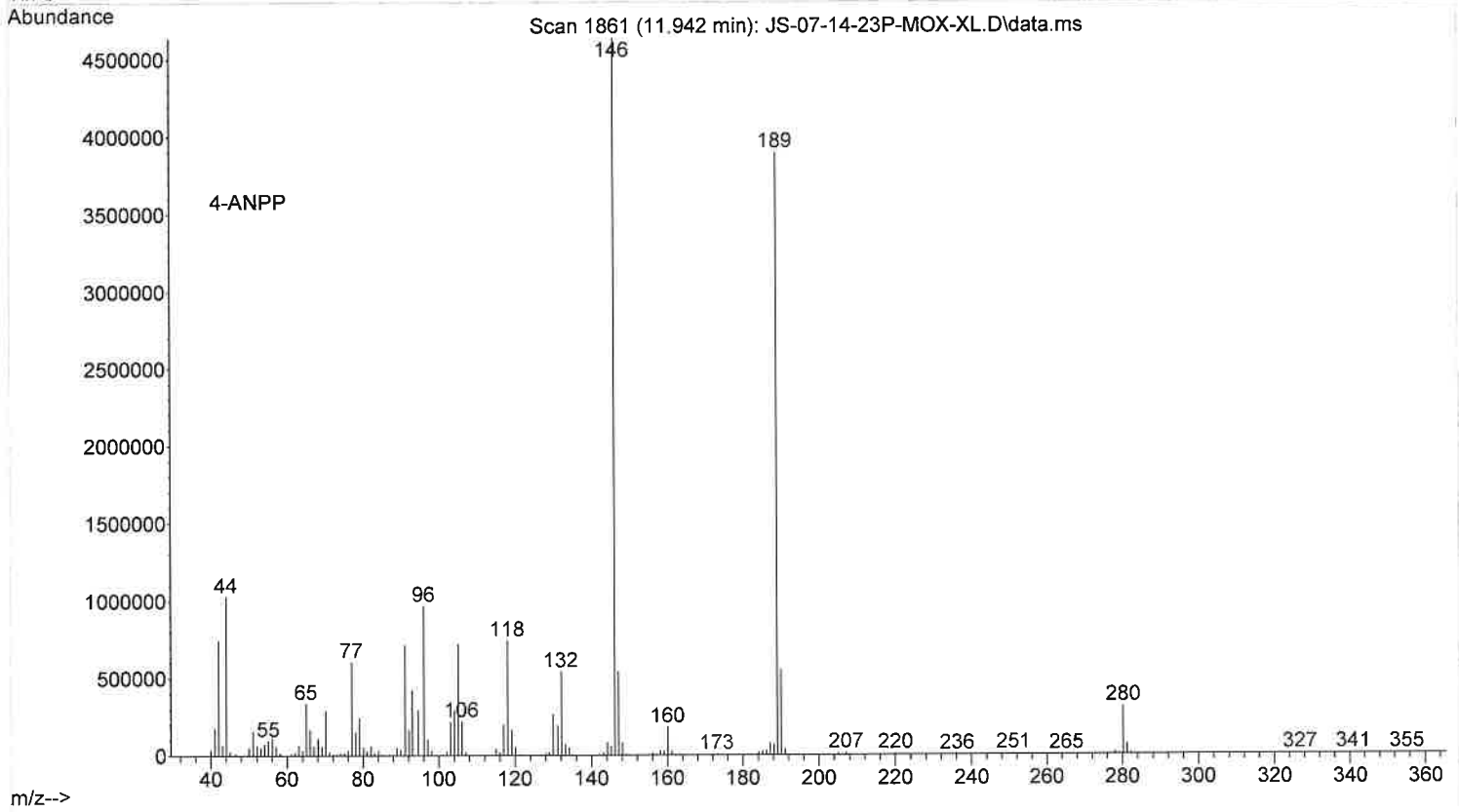
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23P-MOX-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 10:26 using AcqMethod XLDRUGS.M
Sample Name: P-MOX STD
Misc Info : CHCl3



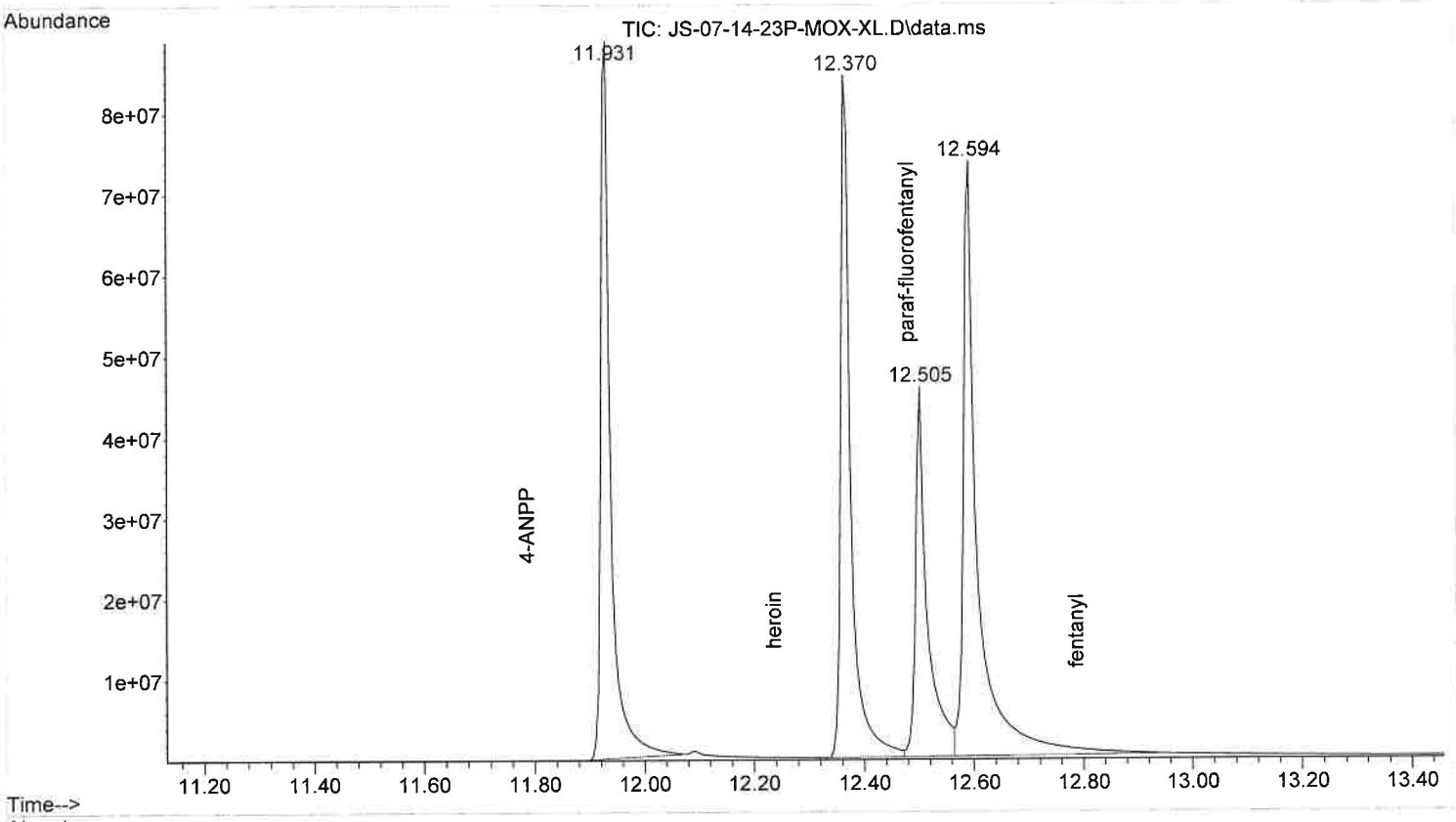



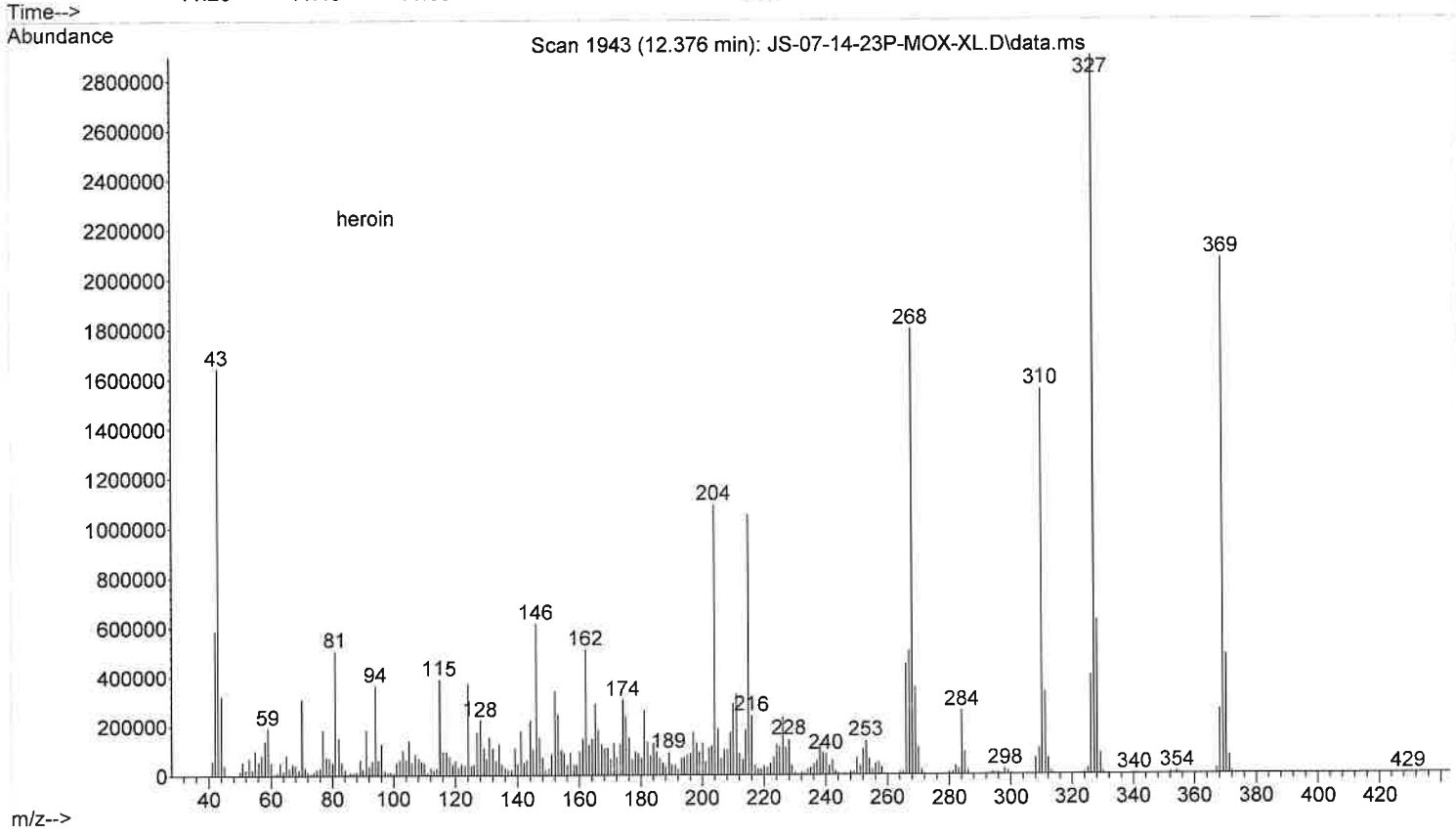
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23P-MOX-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 10:26 using AcqMethod XLDRUGS.M
Sample Name: P-MOX STD
Misc Info : CHCl3



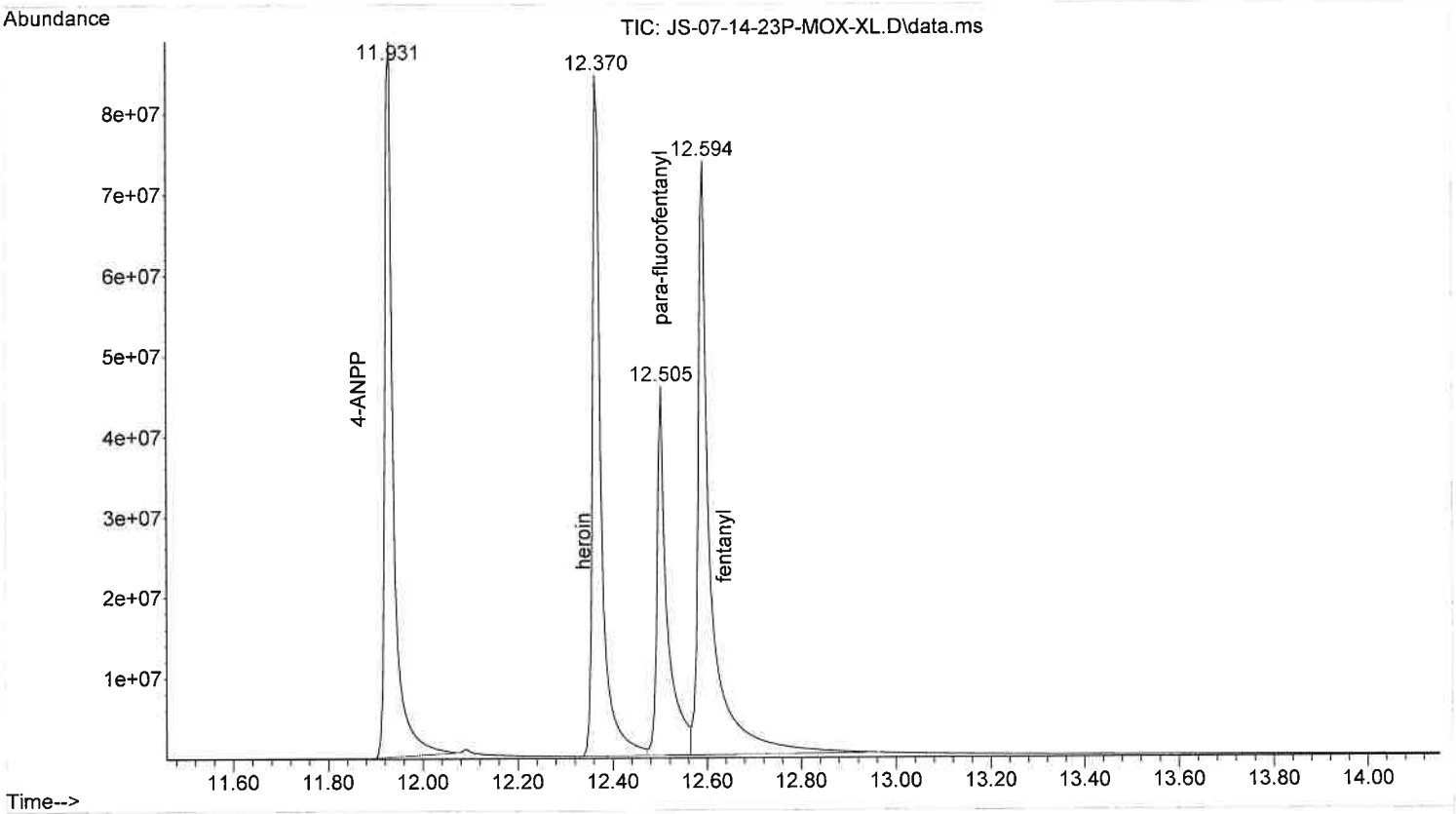



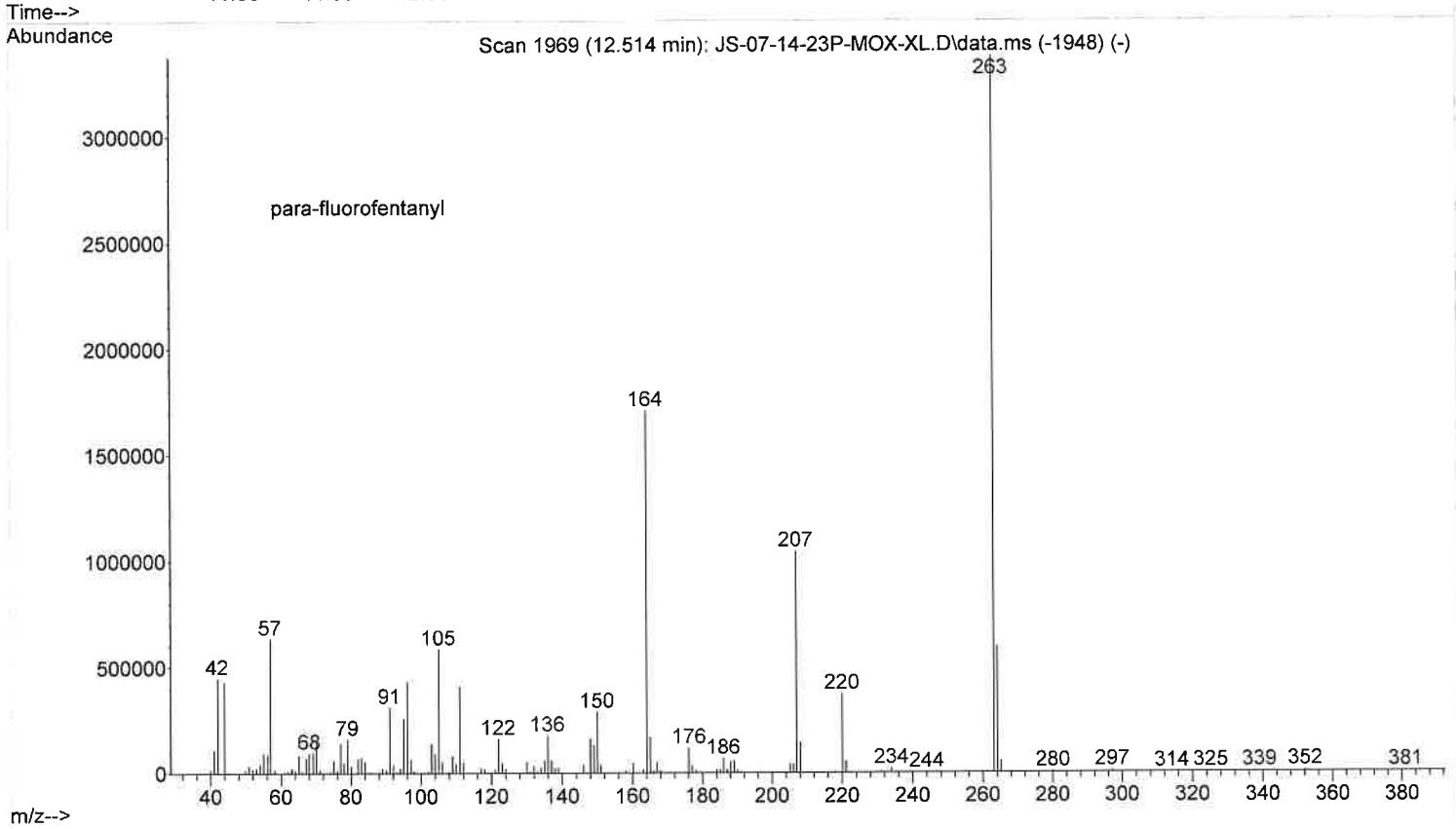
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23P-MOX-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 10:26 using AcqMethod XLDRUGS.M
Sample Name: P-MOX STD
Misc Info : CHCl3



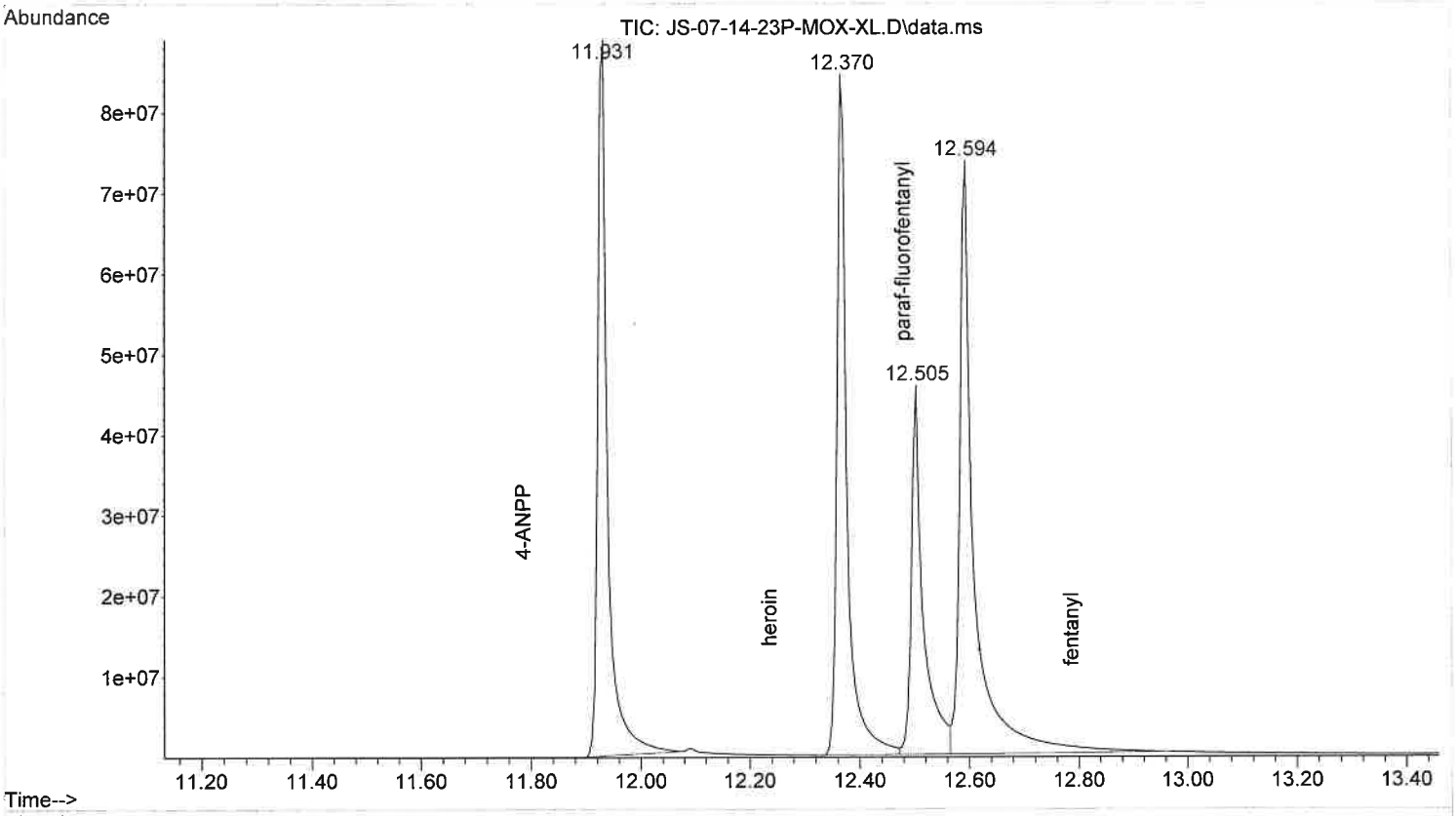



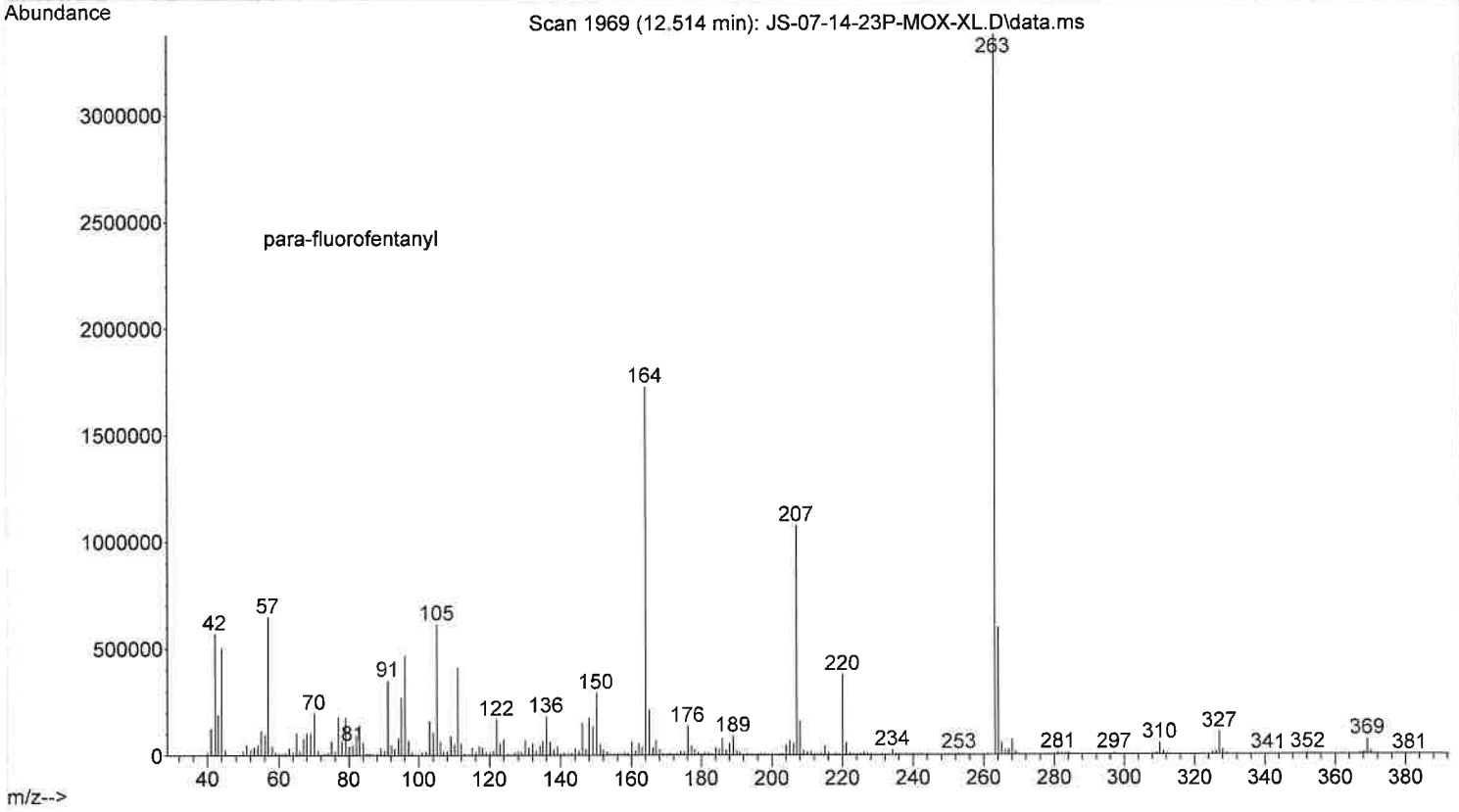
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23P-MOX-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 10:26 using AcqMethod XLDRUGS.M
Sample Name: P-MOX STD
Misc Info : CHCl3



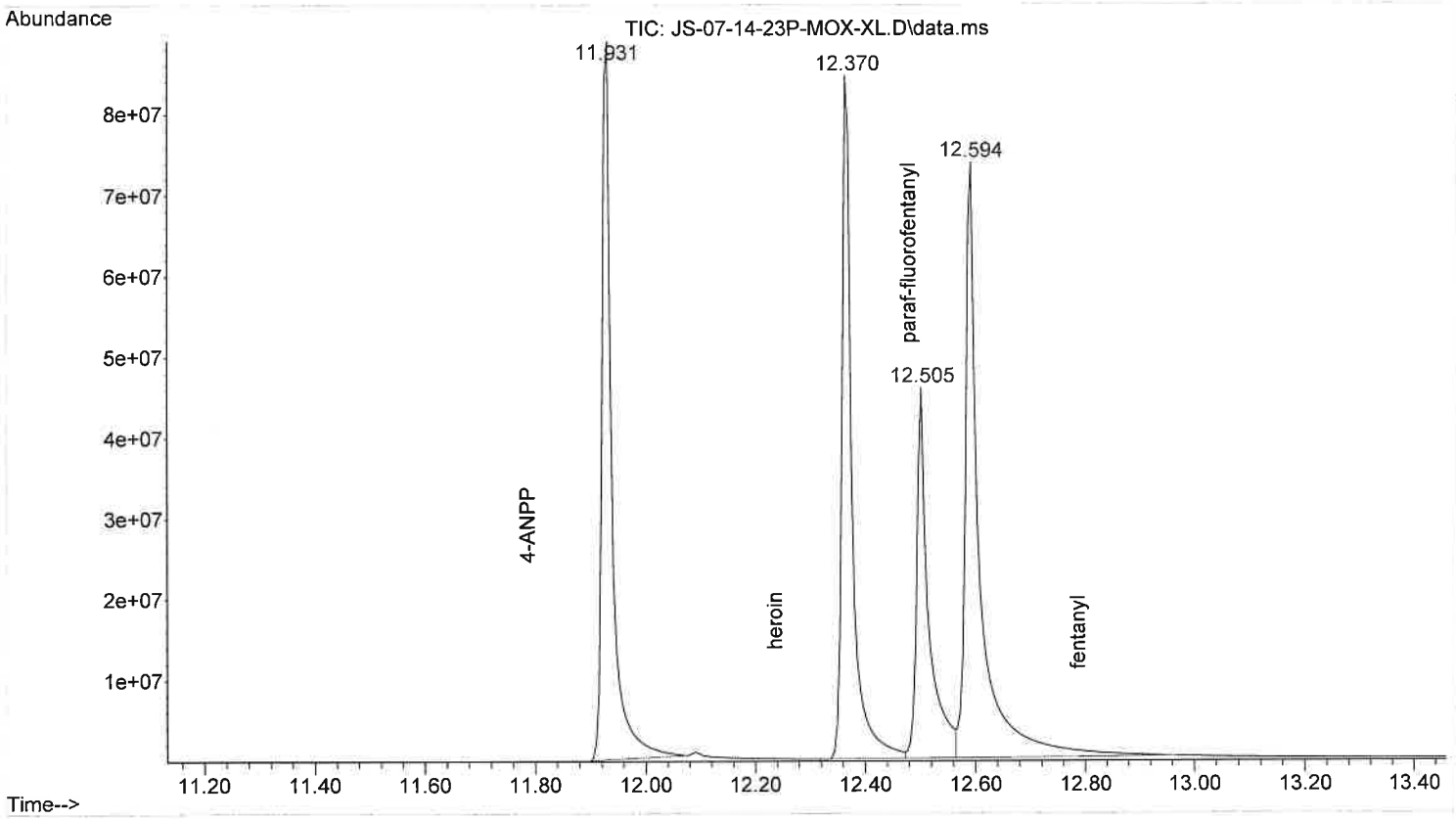



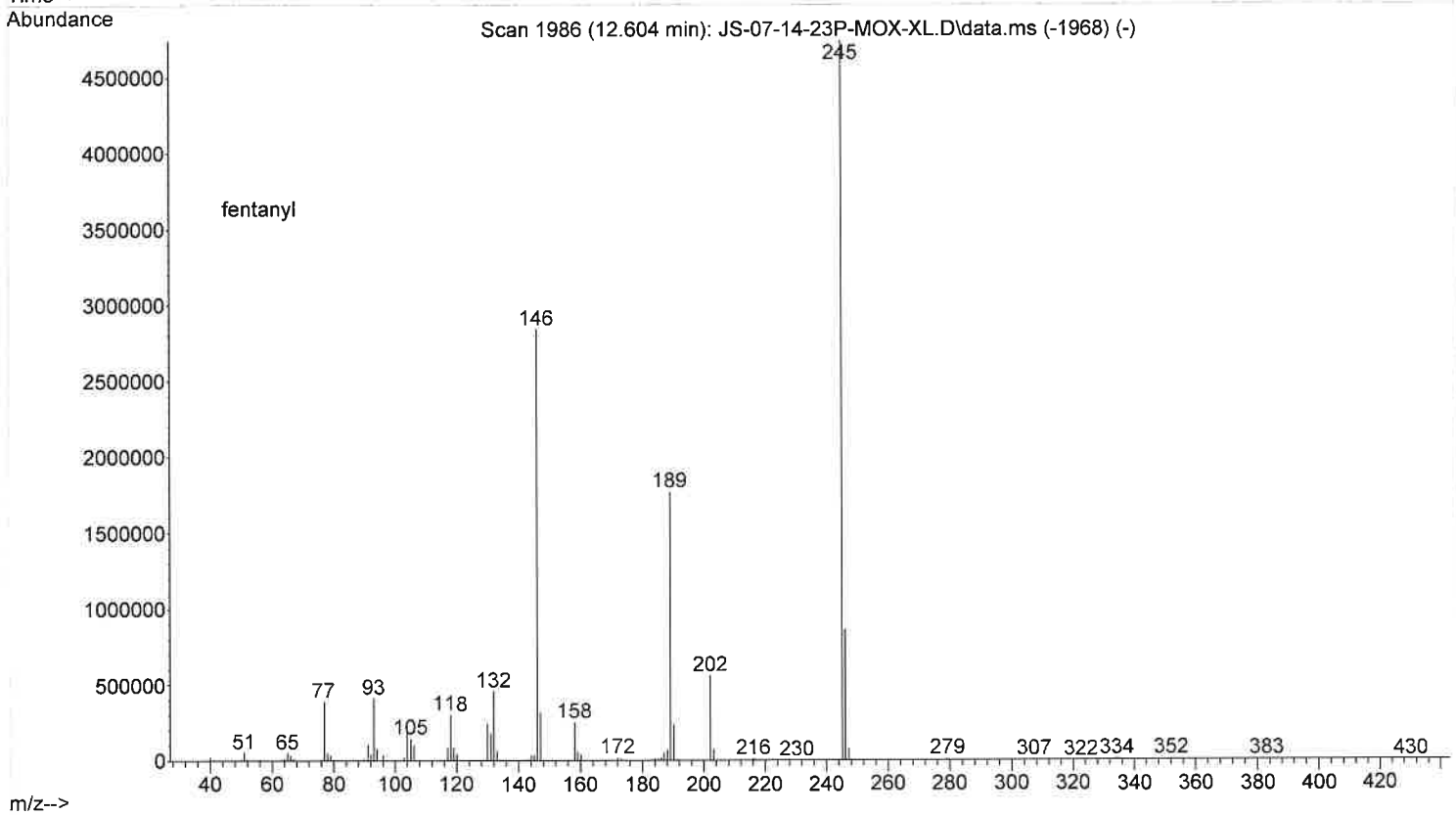
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23P-MOX-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 10:26 using AcqMethod XLDRUGS.M
Sample Name: P-MOX STD
Misc Info : CHCl3



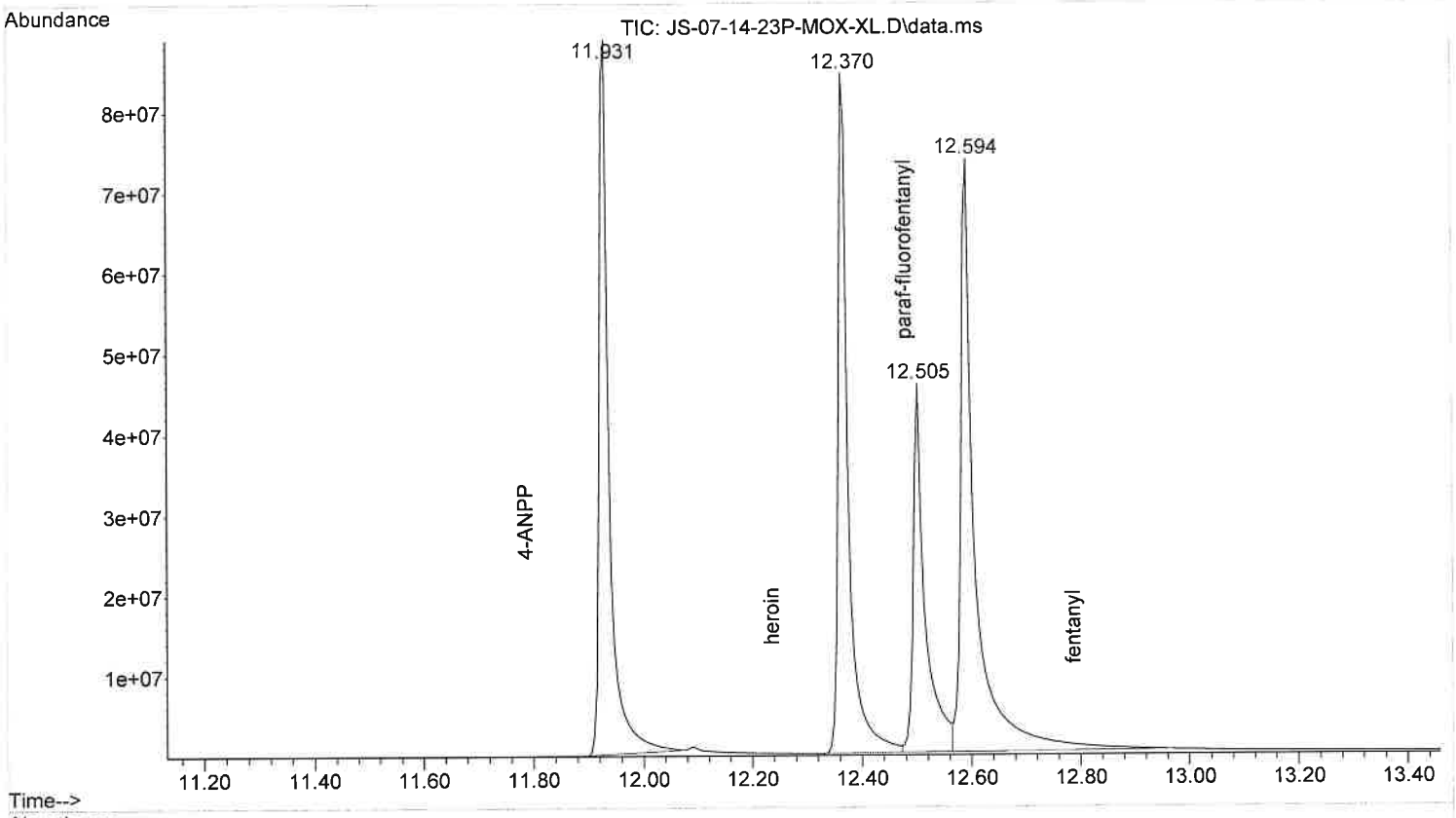



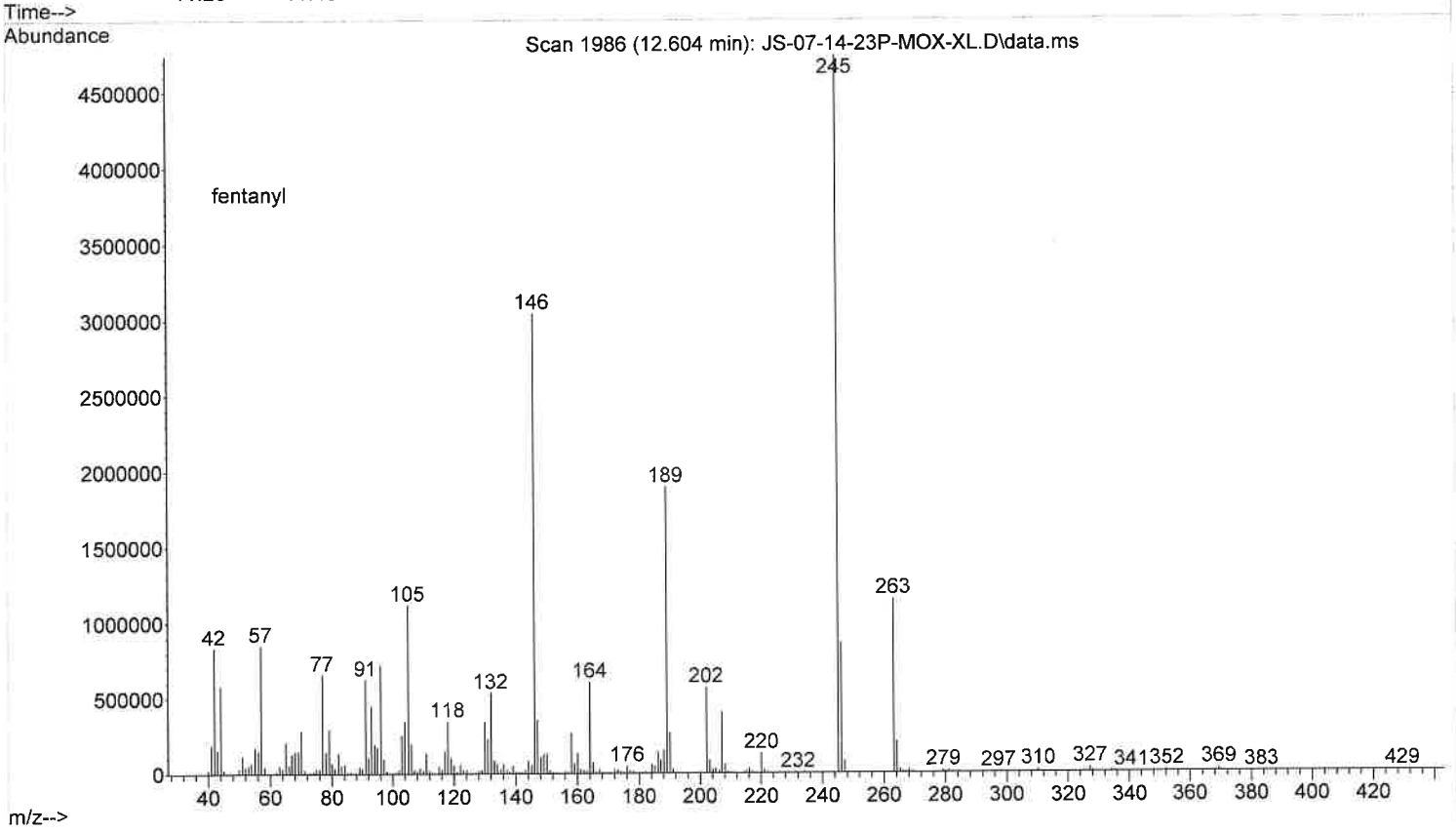
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23P-MOX-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 10:26 using AcqMethod XLDRUGS.M
Sample Name: P-MOX STD
Misc Info : CHCl3



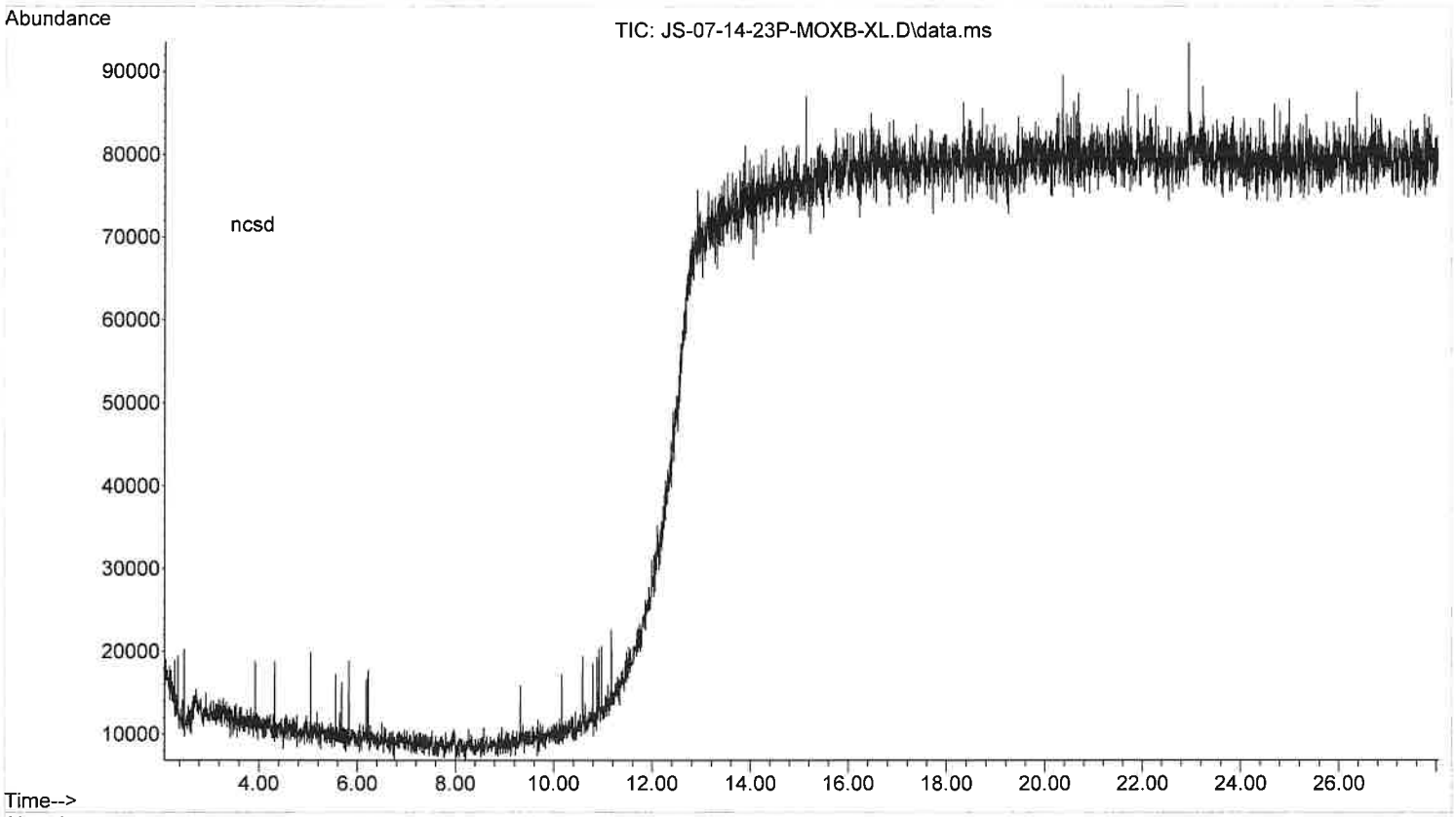



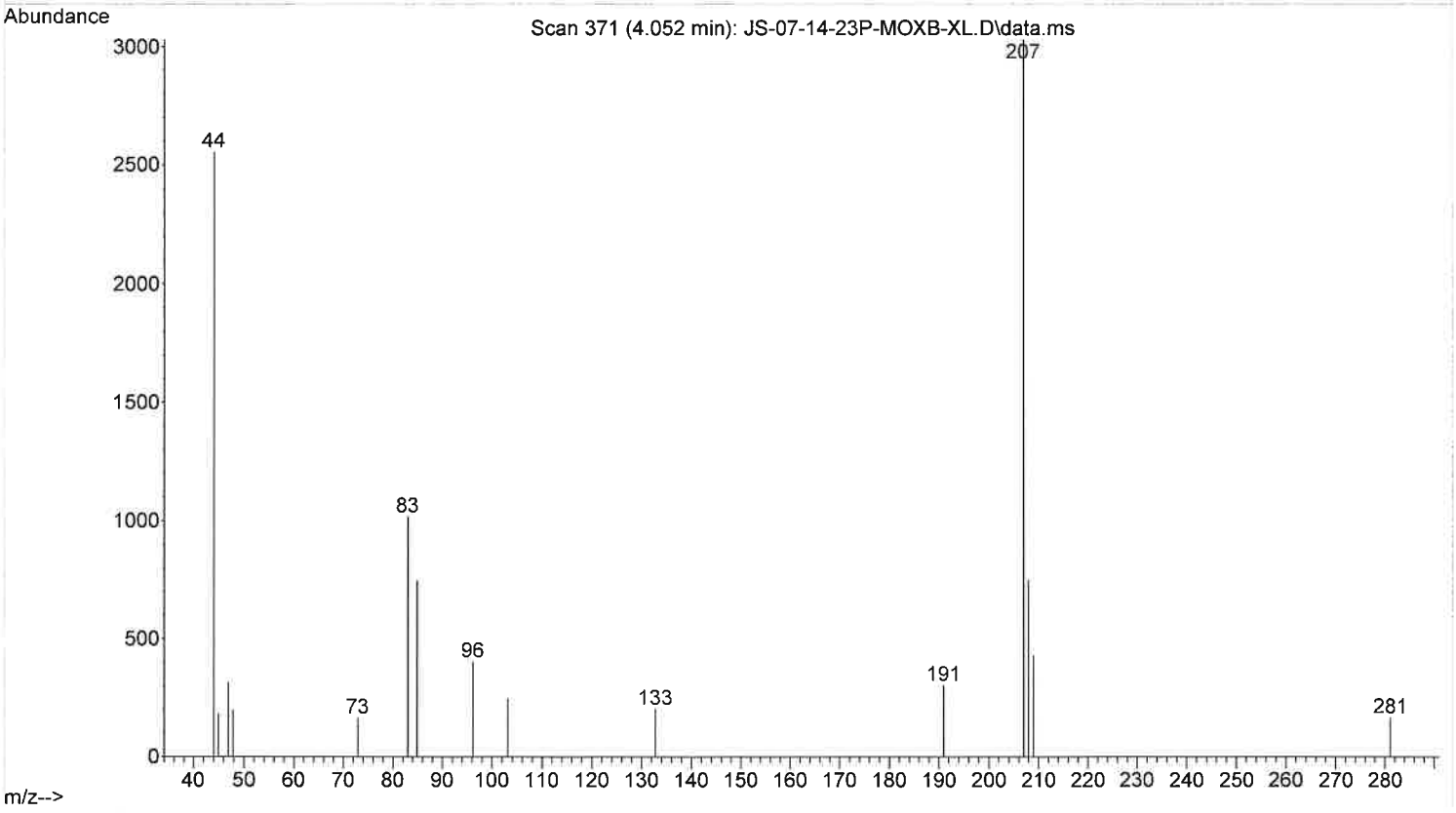
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23P-MOX-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 10:26 using AcqMethod XLDRUGS.M
Sample Name: P-MOX STD
Misc Info : CHCl3



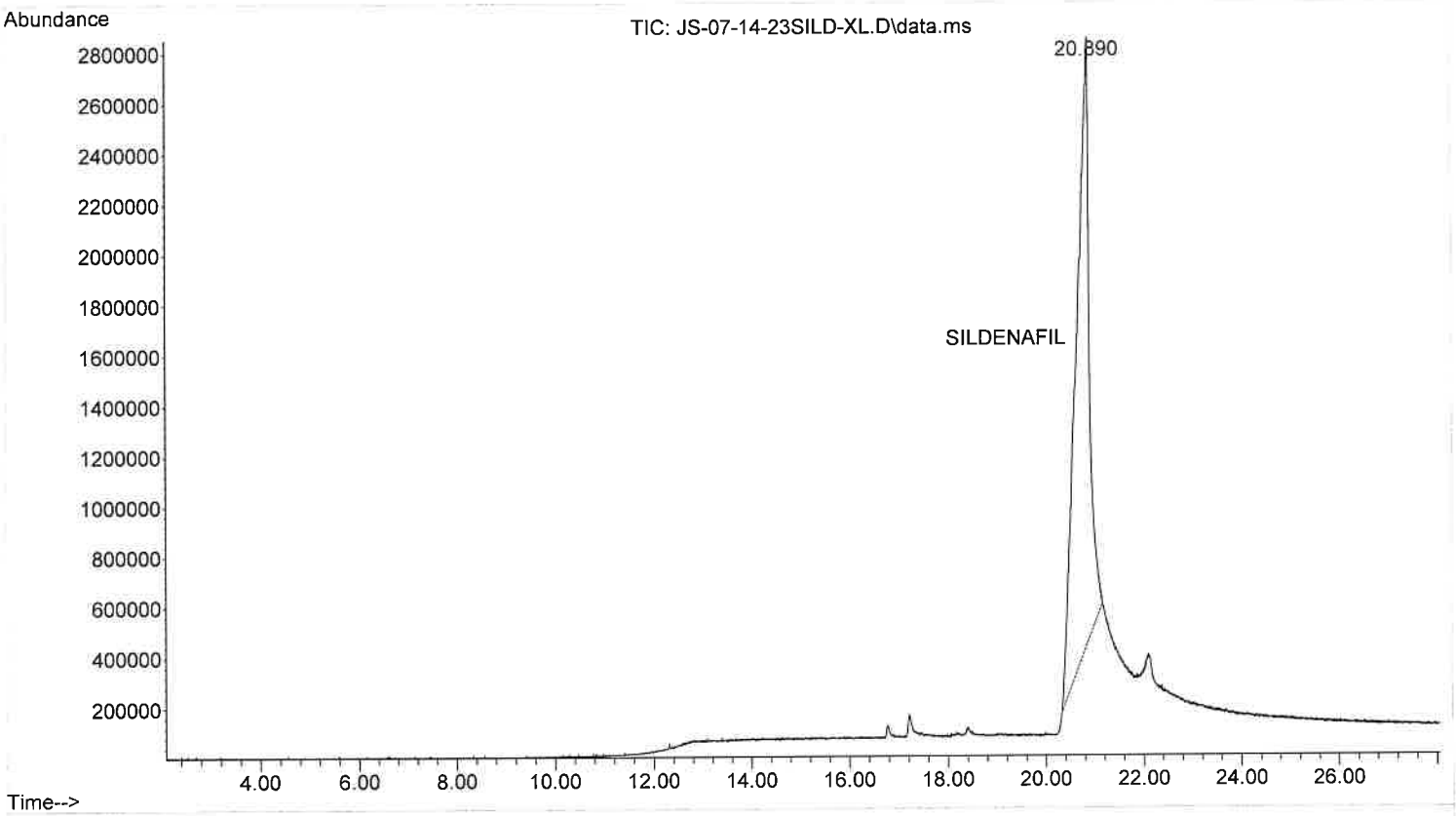



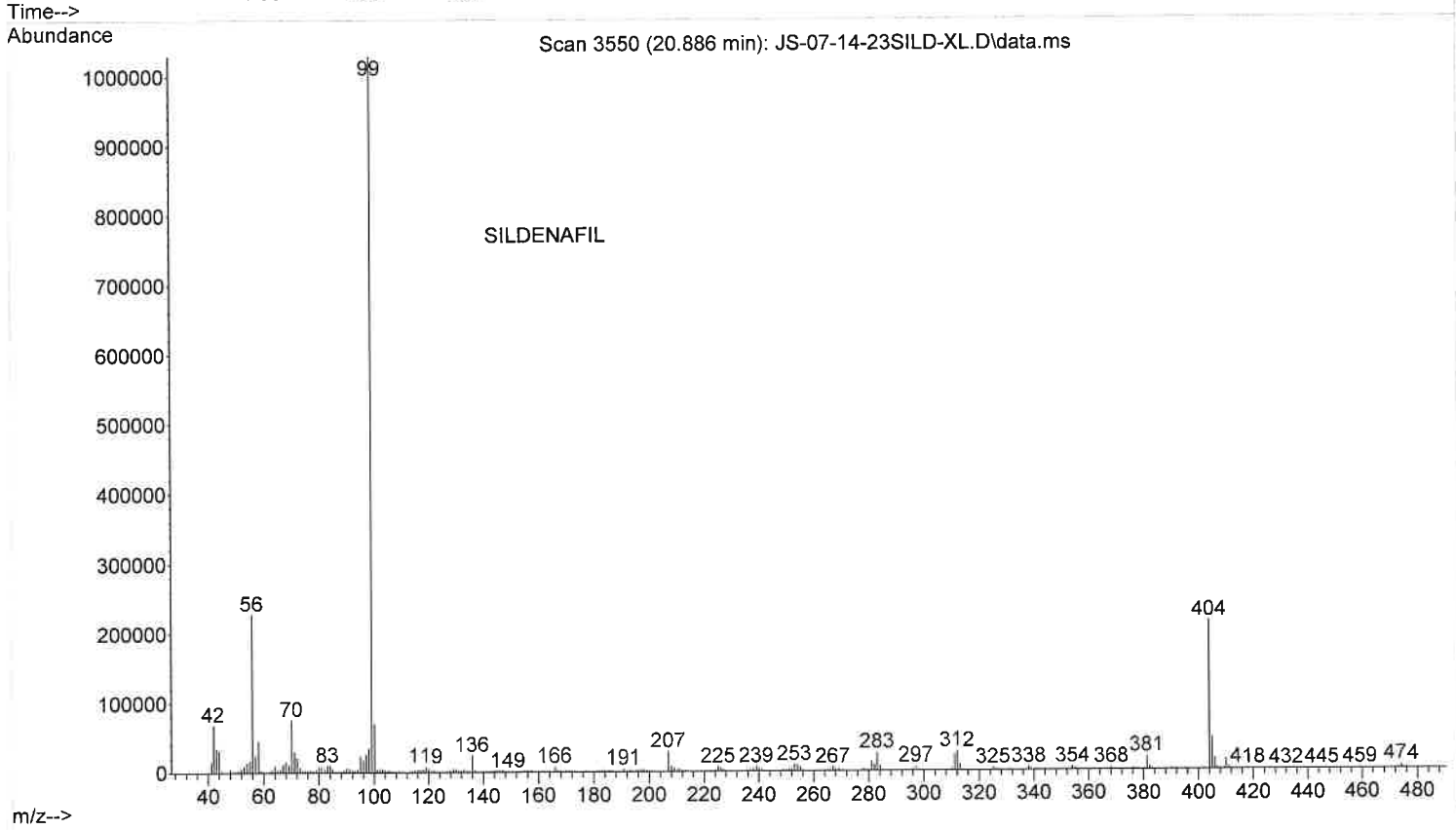
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23P-MOXB-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 09:55 using AcqMethod XLDRUGS.M
Sample Name: P-MOX STD BLANK
Misc Info : CHCl3



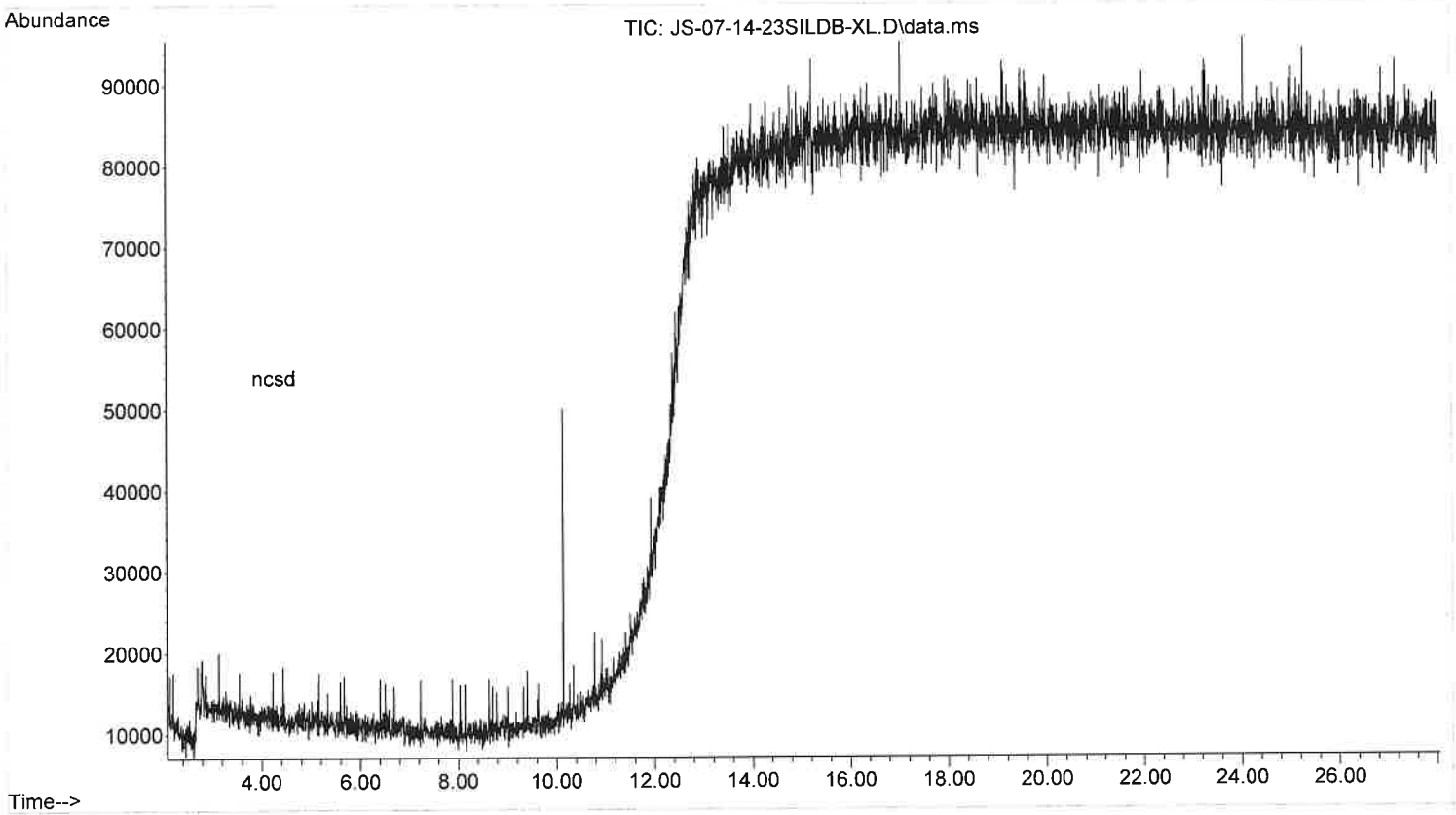



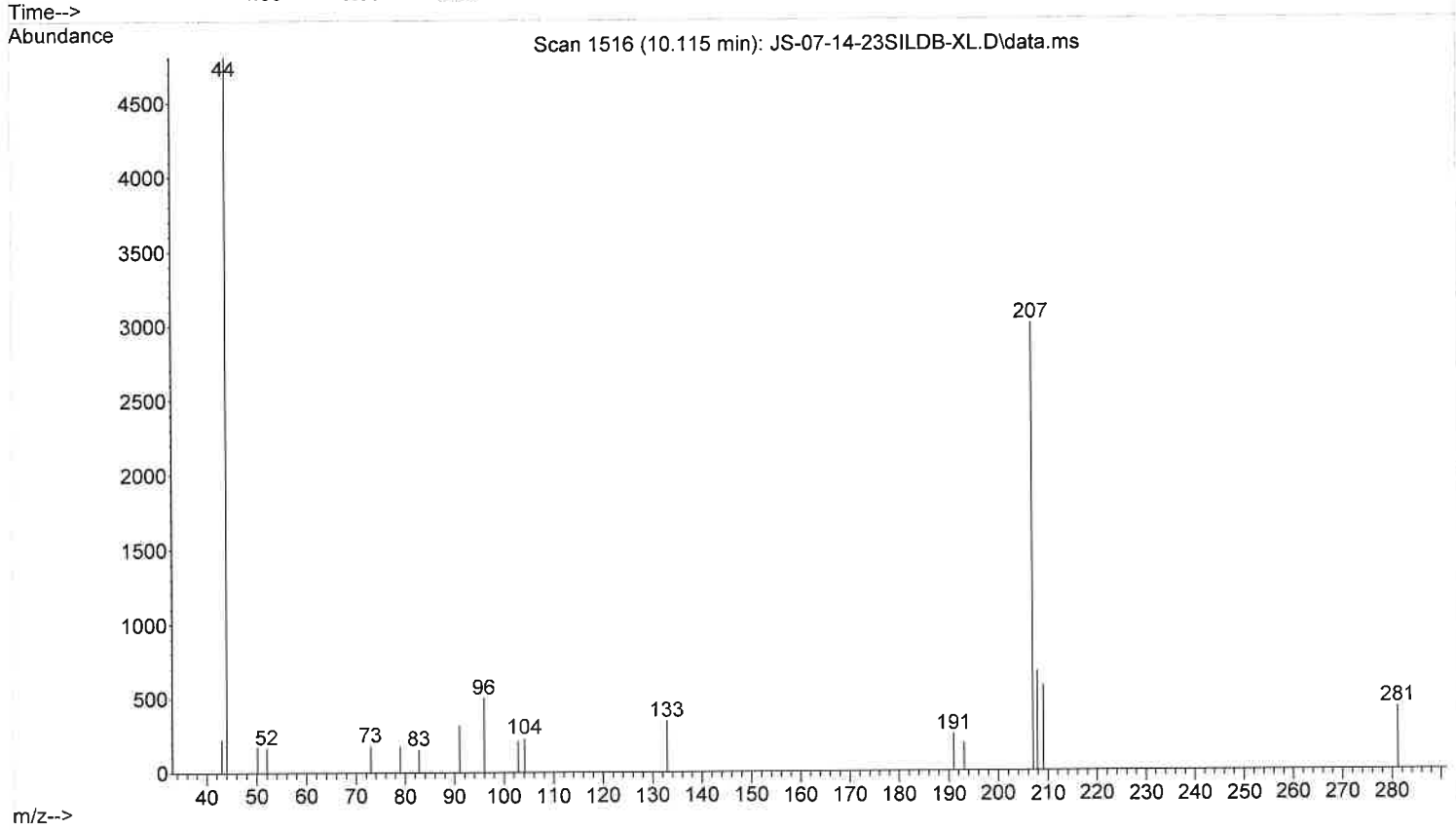
File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23SILD-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 11:47 using AcqMethod XLDRUGS.M
Sample Name: SILDENAFIL STD
Misc Info : MeOH



File :Z:\Forensic Chemistry\Instruments\GCMS\Dobby\Performance Che
... ck\Test\7-14-23\JS-07-14-23SILDB-XL.D
Operator : Dobby
Instrument : Dobby
Acquired : 14 Jul 2023 11:16 using AcqMethod XLDRUGS.M
Sample Name: SILDENAFIL STD BLANK
Misc Info : MeOH



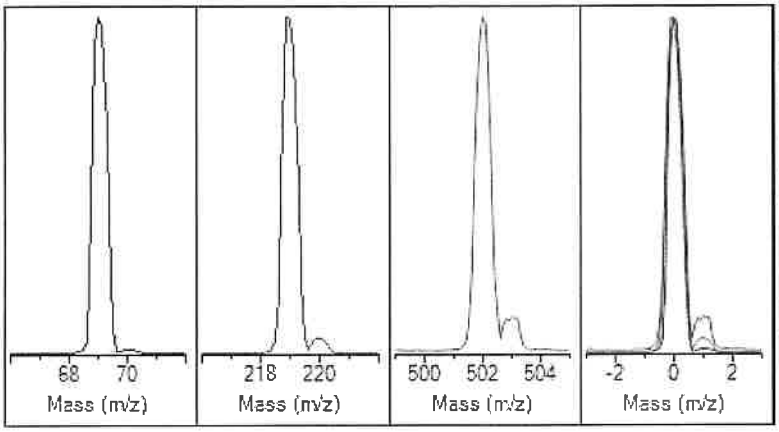
# Autotune - 5977

Tune timestamp: 6/21/2023 11:18 AM (UTC-07:00)

Dobby

C:\MASSHUNTER\GCMS\1\5977\atune.u

US1439L407

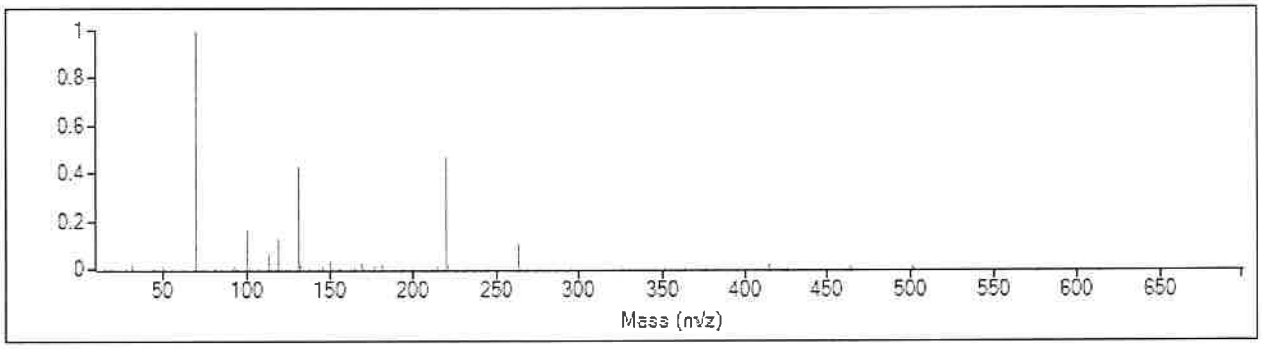



| | | | |
|---|---|---|---|
| Ion Polarity | Pos | PFTBA | Open |
| Emission | 34.6 | Mass Gain | -469 |
| Electron Energy | 70.0 | Mass Offset | -33 |
| Filament | 1 | Amu Gain | 1323 |
| Repeller | 34.90 | Amu Offset | 122.75 |
| Ion Focus | 87.4 | Width219 | -0.006 |
| Entrance Lens | 25.2 | DC Polarity | Pos |
| Ent Lens Offset | 12.90 | HED Enable | On |
| Ion Body | 0.00 | EM Volts | 986.4 |
| Post Extractor 1 | 0 | Extractor Lens | 0.00 |
| Post Extractor 2 | 0 | Scan Speed | 3 |
| JetClean Flow Actual/[Setpoint] | 0.00 [0.00] | Averages | 3 |

| Actual m/z | Abund | Rel Abund | Pw50 |
|---|---|---|---|
| 69.00 | 452,508 | 100.0% | 0.60 |
| 218.90 | 211,805 | 46.8% | 0.60 |
| 502.00 | 6,472 | 1.4% | 0.62 |

| Temperatures and Pressures | | | |
|---|---|---|---|
| MS Source | 230 | Turbo Speed | 100.0 |
| MS Quad | 150 | Hi Vac | 8.57e-06 |

| Low | High | Step | Speed | Threshold | Peaks | Base | Abundance | Total Ion |
|---|---|---|---|---|---|---|---|---|
| 10.00 | 701.00 | 0.10 | 3 | 100 | 104 | 69.00 | 434,176 | 1,167,785 |




| Target m/z | Actual m/z | Abund | Rel Abund | Iso m/z | Iso Abund | Iso Ratio |
|---|---|---|---|---|---|---|
| 69.00 | 69.00 | 434,176 | 100.0% | 70.00 | 4,479 | 1.0% |
| 219.00 | 219.00 | 201,344 | 46.4% | 220.00 | 8,493 | 4.2% |
| 502.00 | 502.00 | 6,105 | 1.4% | 503.00 | 599 | 9.8% |

Air/Water Check: H20 ~0.4% N2 ~0.6% O2 ~0.2% CO2 ~0.1% N2/H20 ~142.3%

Column(1) Flow: 0.68 Column(2): 0.08 ml/min Interface Temp: 280

**Ramp Criteria:**

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 40460.083

Repeller maximum 35 volts using ion 219; Gain Factor 0.4046

Mass Gain Values(Scan Speed): -463(3) -456(2) -440(1) -404(0) -317(FS1) -326(FS2)

| TARGET MASS: | 50 | 69 | 131 | 219 | 414 | 502 | 1050 |
|---|---|---|---|---|---|---|---|
| Amu Offset | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 | 122.8 |
| Entrance Lens Offset | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 |

Report Created: 6/21/2023 11:19 AM (UTC-07:00)

# Autotune - 5977

Tune timestamp: 7/6/2023 12:52 PM (UTC-07:00)

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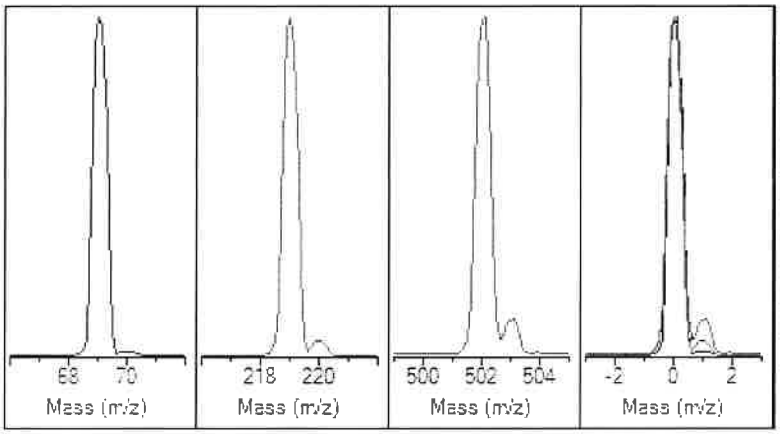
Dobby

US1439L407

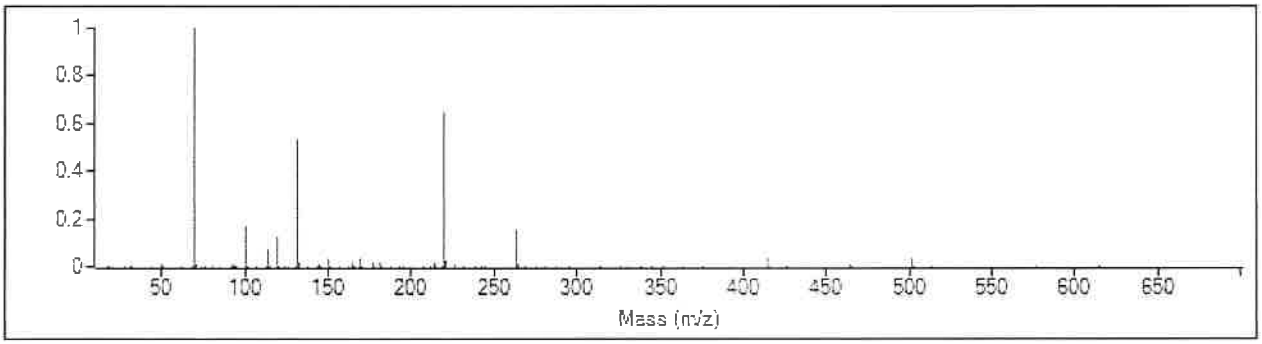



| | | | |
|---|---|---|---|
| Ion Polarity | Pos | PFTBA | Open |
| Emission | 34.6 | Mass Gain | -459 |
| Electron Energy | 70.0 | Mass Offset | -35 |
| Filament | 1 | Amu Gain | 1320 |
| Repeller | 34.90 | Amu Offset | 124.50 |
| Ion Focus | 90.3 | Width219 | 0.001 |
| Entrance Lens | 20.2 | DC Polarity | Pos |
| Ent Lens Offset | 15.31 | HED Enable | On |
| Ion Body | 0.00 | EM Volts | 959.5 |
| Post Extractor 1 | 0 | Extractor Lens | 0.00 |
| Post Extractor 2 | 0 | Scan Speed | 3 |
| JetClean Flow Actual/[Setpoint] | 0.00 [0.00] | Averages | 3 |

| Actual m/z | Abund | Rel Abund | Pw50 |
|---|---|---|---|
| 69.00 | 528,182 | 100.0% | 0.60 |
| 219.00 | 347,085 | 65.7% | 0.60 |
| 502.10 | 16,460 | 3.1% | 0.60 |

| Temperatures and Pressures | | | |
|---|---|---|---|
| MS Source | 230 | Turbo Speed | 100.0 |
| MS Quad | 150 | Hi Vac | 1.08e-05 |

| Low | High | Step | Speed | Threshold | Peaks | Base | Abundance | Total Ion |
|---|---|---|---|---|---|---|---|---|
| 10.00 | 701.00 | 0.10 | 3 | 100 | 112 | 69.00 | 502,912 | 1,580,144 |




| Target m/z | Actual m/z | Abund | Rel Abund | Iso m/z | Iso Abund | Iso Ratio |
|---|---|---|---|---|---|---|
| 69.00 | 69.00 | 502,912 | 100.0% | 70.10 | 5,295 | 1.1% |
| 219.00 | 219.00 | 326,848 | 65.0% | 220.00 | 14,125 | 4.3% |
| 502.00 | 502.00 | 15,703 | 3.1% | 503.10 | 1,553 | 9.9% |

Air/Water Check: H20 ~0.3% N2 ~0.3% O2 ~0.1% CO2 ~0.1% N2/H20 ~116.1%

Column(1) Flow: 1.00 Column(2): 0.08 ml/min Interface Temp: 280

**Ramp Criteria:**

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 28195.306

Repeller maximum 35 volts using ion 219; Gain Factor 0.2820

Mass Gain Values(Scan Speed): -455(3) -448(2) -432(1) -402(0) -324(FS1) -323(FS2)

| TARGET MASS: | 50 | 69 | 131 | 219 | 414 | 502 | 1050 |
|---|---|---|---|---|---|---|---|
| Amu Offset | 124.5 | 124.5 | 124.5 | 124.5 | 124.5 | 124.5 | 124.5 |
| Entrance Lens Offset | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 |

Report Created: 7/6/2023 12:53 PM (UTC-07:00)

# Autotune - 5977

Tune timestamp: 7/10/2023 4:03 PM (UTC-04:00)

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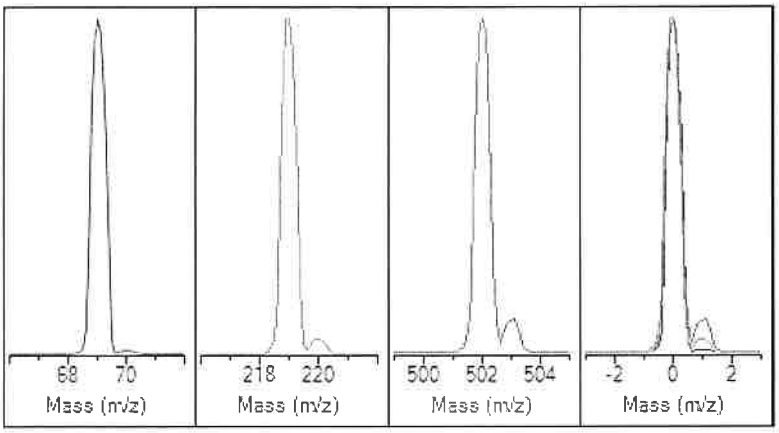
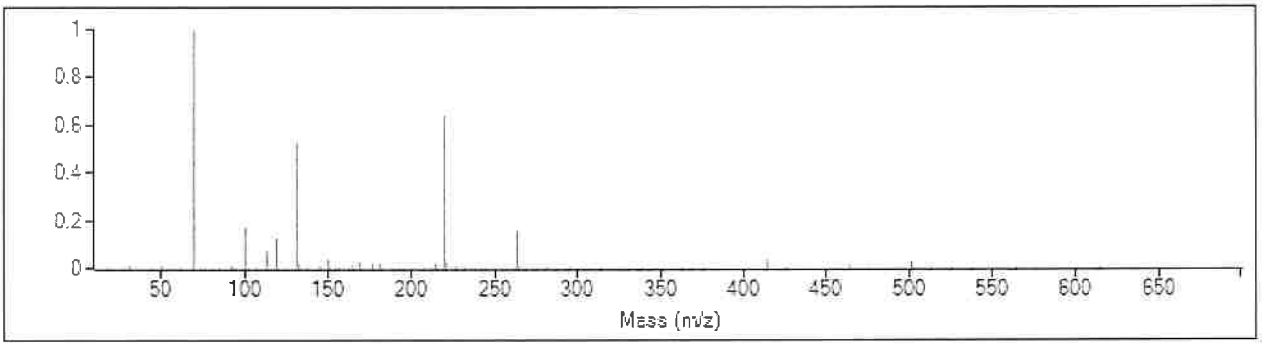



| | | | |
|---|---|---|---|
| Ion Polarity | Pos | PFTBA | Open |
| Emission | 34.6 | Mass Gain | -459 |
| Electron Energy | 70.0 | Mass Offset | -36 |
| Filament | 1 | Amu Gain | 1319 |
| Repeller | 34.90 | Amu Offset | 123.94 |
| Ion Focus | 90.3 | Width219 | -0.007 |
| Entrance Lens | 22.7 | DC Polarity | Pos |
| Ent Lens Offset | 15.15 | HED Enable | On |
| Ion Body | 0.00 | EM Volts | 948.2 |
| Post Extractor 1 | 0 | Extractor Lens | 0.00 |
| Post Extractor 2 | 0 | Scan Speed | 3 |
| JetClean Flow Actual/[Setpoint] | 0.00 [0.00] | Averages | 3 |

| Actual m/z | Abund | Rel Abund | Pw50 |
|---|---|---|---|
| 69.00 | 515,373 | 100.0% | 0.60 |
| 219.00 | 326,869 | 63.4% | 0.60 |
| 502.00 | 15,320 | 3.0% | 0.60 |

| Temperatures and Pressures | | | |
|---|---|---|---|
| MS Source | 230 | Turbo Speed | 100.0 |
| MS Quad | 150 | HI Vac | 1.12e-05 |

| Low | High | Step | Speed | Threshold | Peaks | Base | Abundance | Total Ion |
|---|---|---|---|---|---|---|---|---|
| 10.00 | 701.00 | 0.10 | 3 | 100 | 109 | 69.00 | 490,752 | 1,523,337 |




| Target m/z | Actual m/z | Abund | Rel Abund | Iso m/z | Iso Abund | Iso Ratio |
|---|---|---|---|---|---|---|
| 69.00 | 69.00 | 490,752 | 100.0% | 70.00 | 5,360 | 1.1% |
| 219.00 | 219.00 | 312,832 | 63.7% | 220.00 | 13,428 | 4.3% |
| 502.00 | 502.00 | 14,267 | 2.9% | 503.00 | 1,400 | 9.8% |

Air/Water Check: H20 ~0.3% N2 ~0.4% O2 ~0.2% CO2 ~0.1% N2/H20 ~146.4%

Column(1) Flow: 1.00 Column(2): 0.07 ml/min Interface Temp: 280

**Ramp Criteria:**

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 24306.271

Repeller maximum 35 volts using ion 219; Gain Factor 0.2431

Mass Gain Values(Scan Speed): -455(3) -448(2) -432(1) -402(0) -324(FS1) -323(FS2)

| TARGET MASS: | 50 | 69 | 131 | 219 | 414 | 502 | 1050 |
|---|---|---|---|---|---|---|---|
| Amu Offset | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 |
| Entrance Lens Offset | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 |

Report Created: 7/10/2023 4:04 PM (UTC-04:00)

# Autotune - 5977

Tune timestamp: 7/17/2023 7:16 AM (UTC-04:00)

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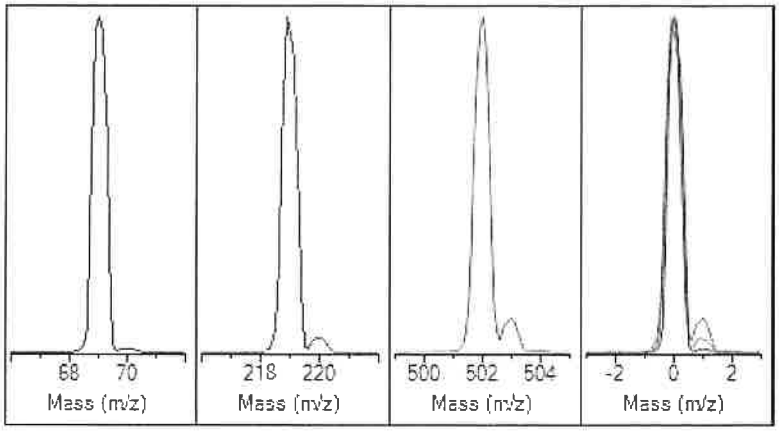
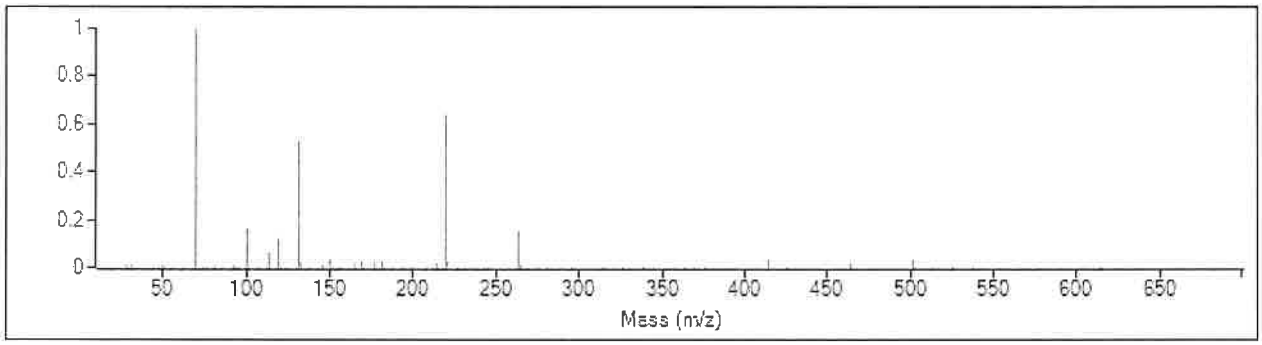



| | | | |
|---|---|---|---|
| Ion Polarity | Pos | PFTBA | Open |
| Emission | 34.6 | Mass Gain | -468 |
| Electron Energy | 70.0 | Mass Offset | -36 |
| Filament | 1 | Amu Gain | 1322 |
| Repeller | 34.90 | Amu Offset | 123.75 |
| Ion Focus | 90.3 | Width219 | -0.001 |
| Entrance Lens | 20.2 | DC Polarity | Pos |
| Ent Lens Offset | 15.31 | HED Enable | On |
| Ion Body | 0.00 | EM Volts | 963.6 |
| Post Extractor 1 | 0 | Extractor Lens | 0.00 |
| Post Extractor 2 | 0 | Scan Speed | 3 |
| JetClean Flow Actual/[Setpoint] | 0.00 [0.00] | Averages | 3 |

| Actual m/z | Abund | Rel Abund | Pw50 |
|---|---|---|---|
| 69.00 | 545,071 | 100.0% | 0.60 |
| 218.90 | 353,205 | 64.8% | 0.60 |
| 502.00 | 17,103 | 3.1% | 0.60 |

| Temperatures and Pressures | | | |
|---|---|---|---|
| MS Source | 230 | Turbo Speed | 100.0 |
| MS Quad | 150 | Hi Vac | 1.07e-05 |

| Low | High | Step | Speed | Threshold | Peaks | Base | Abundance | Total Ion |
|---|---|---|---|---|---|---|---|---|
| 10.00 | 701.00 | 0.10 | 3 | 100 | 119 | 69.00 | 522,176 | 1,627,037 |




| Target m/z | Actual m/z | Abund | Rel Abund | Iso m/z | Iso Abund | Iso Ratio |
|---|---|---|---|---|---|---|
| 69.00 | 69.00 | 522,176 | 100.0% | 70.00 | 5,781 | 1.1% |
| 219.00 | 219.00 | 333,312 | 63.8% | 220.00 | 14,383 | 4.3% |
| 502.00 | 502.00 | 15,973 | 3.1% | 503.00 | 1,624 | 10.2% |

Air/Water Check: H20 ~0.3% N2 ~0.9% O2 ~0.4% CO2 ~0.1% N2/H20 ~305.0%

Column(1) Flow: 1.00 Column(2): 0.07 ml/min Interface Temp: 280

**Ramp Criteria:**

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 28341.880

Repeller maximum 35 volts using ion 219; Gain Factor 0.2834

Mass Gain Values(Scan Speed): -457(3) -450(2) -434(1) -403(0) -315(FS1) -367(FS2)

| TARGET MASS: | 50 | 69 | 131 | 219 | 414 | 502 | 1050 |
|---|---|---|---|---|---|---|---|
| Amu Offset | 123.8 | 123.8 | 123.8 | 123.8 | 123.8 | 123.8 | 123.8 |
| Entrance Lens Offset | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 | 15.3 |

Report Created: 7/17/2023 7:16 AM (UTC-04:00)