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<td>Has hazard assessment been carried out on this sample:</td>
<td>YES No</td>
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<td>YES No</td>
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<td>MOLECULAR FORMULA:</td>
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<td>C₃₂H₃₂AuCl₆N₆</td>
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<td>MOLECULAR WEIGHT:</td>
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<td>697.93g/mol</td>
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<td>STRUCTURAL FORMULA AND REMARKS</td>
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<td>FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.</td>
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<td>HAVE THE FOLLOWING ANALYSES BEEN RUN?</td>
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<td>MATRIX (3-NBA OR GLYCEROL)</td>
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<td>CALIBRANT PFK/MOD/ULTRA RESOLUTION</td>
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<td>COMMENTS:</td>
<td>HRMS please if low res. is okay, thank you</td>
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**SAMPLE SUBMITTED BY:** Fatai Afolabi

**DATE SUBMITTED:** 11/12/2017

**ROOM or LAB. NO.:** 325

**LOG NO.:** 9853

**SUPERVISOR'S SIGNATURE:** EMEV

**PLEASE DON'T SUBMIT MORE THAN ONE SAMPLE AT THE SAME TIME.**

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?**

- [ ] YES
- [x] NO

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**

- [x] YES
- [ ] NO

**SAMPLE CODE NO.:** V03AF59D

**MOLECULAR FORMULA:** C32H22AuBrN6P

**MOLECULAR WEIGHT:** 742.399 g/mol

**SOLUBILITY:**

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**SERVICE REQUIRED:**

- Tick relevant boxes:
  - [ ] LOW RESOLUTION EI
  - [x] LOW RESOLUTION CI
  - [ ] FAB
  - [ ] GC-MS
  - [x] ESI

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- [ ] NMR
- [x] X-RAY
- [ ] IR
- [ ] MICRO ANALYSIS
- [ ] GC

**FOR LAB USE ONLY:**

- [ ] INSTRUMENT USED AUTOSPEC
- [ ] MS80
- [ ] MD-800

**EI**

- [ ] CI
- [ ] FAB

**MATRIX (3-NBA OR GLYCEROL):**

- [ ]

**MASS RANGE:**

- [ ] CALIBRANT PFK/MOD/ULTRA

**RESOLUTION:**

- [ ]

**COMMENTS:**

HRMS please if the low res. is okay, thank you
**SAMPLE SUBMITTED BY:** FATAI AFOLABI  
**DATE SUBMITTED:** 05/02/2018  
**LOG NO:** 0277  
**SUPERVISOR'S SIGNATURE:** EMEV  
**PLEASE DON'T SUBMIT MORE THAN 3 SAMPLES AT THE SAME TIME.**

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?**  
- [ ] Yes  
- [x] No

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**  
- [ ] Yes  
- [x] No

**SAMPLE CODE NO.:** V03AF63D  
**SOLID [ ] LIQUID [x] GAS [ ]**

**MOLECULAR FORMULA:** C_{33}H_{24}AuClIN_{2}DP^+  
**MOLECULAR WEIGHT:** 727.96 g/mol

**SENSITIVE TO:**  
- [ ] AIR/MOISTURE/LIGHT  
- [x] YES  
- [ ] NO

**SOLUBILITY**

**MELTING POINT**

**STRUCTURAL FORMULA AND REMARKS**

```
Ph2-P-Au-M
\begin{tikzpicture}
  \draw[blue,thick] (0,0) -- (1,1);
  \draw[blue,thick] (1,0) -- (0,1);
  \draw[blue,thick] (2,0) -- (1,1);
  \draw[blue,thick] (1,2) -- (2,1);
  \draw[blue,thick] (2,2) -- (1,1);
  \draw[blue,thick] (3,0) -- (2,1);
  \draw[blue,thick] (2,2) -- (3,1);
  \node at (1,1) {Cl};
\end{tikzpicture}
```

**SERVICE REQUIRED:** Tick relevant boxes  
- [ ] LOW RESOLUTION EI  
- [ ] LOW RESOLUTION CI  
- [ ] FAB  
- [ ] GC-MS  
- [x] ESI

**FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.**

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- [ ] NMR  
- [ ] X-RAY  
- [ ] IR  
- [ ] MICRO ANALYSIS  
- [ ] GC

**FOR LAB USE ONLY:**  
- [ ] INSTRUMENT USED AUTOSPEC  
- [ ] MS80  
- [ ] MD-800

- [ ] EI  
- [ ] CI  
- [ ] FAB  
- [ ] MATRIX (3-NBA OR GLYCEROL)

- [ ] MASS RANGE  
- [ ] CALIBRANT PFK/MOD/ULTRA  
- [ ] RESOLUTION

**COMMENTS:**  
HRMS please if the low res. is okay, thank you
**US**

**SCHOOL OF LIFE SCIENCE**
**MASS SPECTROSCOPY LABORATORY**
ROOM 2R122 Tel: (01273) 678529 Ex: 8529
Enquiries to: Dr. A. K. ABDUL-SADA

<table>
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HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE YES [ ] NO [X] |
HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR YES [X] NO [ ] |

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<td>BOILING POINT</td>
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**STRUCTURAL FORMULA AND REMARKS**

![Structural formula image]

**SERVICE REQUIRED:** Tick relevant boxes

- LOW RESOLUTION EI [ ] LOW RESOLUTION CI [ ] FAB [ ] GC-MS [ ] ESI [X]

FOR ACCURATE MASS SER VE PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- NMR [X] X-RAY [X] IR [X] MICRO ANALYSIS [X] GC [ ]

**FOR LAB USE ONLY:**
- INSTRUMENT USED: AUTOSPEC [ ] MS80 [ ] MD-800 [ ]
- EI [ ] CI [ ] FAB [ ] MATRIX (3-NBA OR GLYCEROL) [ ]
- MASS RANGE [ ] CALIBRANT: PFK/MD/ULA [ ] RESOLUTION [ ]

**COMMENTS:**

Low resolution EI AND high resolution ESI with composition analysis please.

[Signature]
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<td>SAMPLE CODE NO.</td>
<td>V03AF75D</td>
<td>SOLID</td>
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<td>BOILING POINT</td>
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**STRUCTURAL FORMULA AND REMARKS**

![Structural formula](image)

SERVICE REQUIRED: Tick relevant boxes

- LOW RESOLUTION EI  [ ]
- LOW RESOLUTION CI  [ ]
- FAB  [ ]
- GC-MS  [ ]
- ESI  [ ]

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

HAVE THE FOLLOWING ANALYSES BEEN RUN?

- NMR  [ ]
- X-RAY  [ ]
- IR  [ ]
- MICRO ANALYSIS  [ ]
- GC  [ ]

FOR LAB USE ONLY:

- INSTRUMENT USED AUTOSPEC  [ ]
- MS80  [ ]
- MD-800  [ ]

- EI  [ ]
- CI  [ ]
- FAB  [ ]
- MATRIX (G-NBA OR GLYCEROL)  [ ]

MASS RANGE  [ ]

CALIBRANT PFK/MOD/ULTRA RESOLUTION  [ ]

COMMENTS:

HRMS please if the low res. is okay, thank you
US
SCHOOL OF LIFE SCIENCE
MASS SPECTROSCOPY LABORATORY
ROOM 2R122 Tel: (01273) 678529 Ex: 8529
Enquiries to: Dr. A. K. ABDUL-SADA

LOG NO. 9326

SAMPLE SUBMITTED BY: FATAI AFULABI
DATE SUBMITTED: THREE 30/11/2017
ROOM or LAB. NO.: 325

SUPERVISOR’S SIGNATURE: EMEV

PLEASE DON’T SUBMIT MORE THAN SAMPLES AT THE SAME TIME.

HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE YES [ ] NO [X]

HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR YES [ ] NO [X]

SAMPLE CODE NO. V04AF10D
MOLECULAR FORMULA C32H21AuClN2
MOLECULAR WEIGHT 732.37

SOLUBILITY [ ] BOILING POINT [ ]

MELTING POINT [ ]

SOLID [X] LIQUID [ ] GAS [ ]

SENSITIVE TO: AIR/MOISTURE/LIGHT YES [X] NO [ ]

STRUCTURAL FORMULA AND REMARKS:

SERVICE REQUIRED: Tick relevant boxes
LOW RESOLUTION EI [ ] LOW RESOLUTION CI [ ] FAB [ ] GC-MS [ ] ESI [X]

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

HAVE THE FOLLOWING ANALYSES BEEN RUN?

NMR [X] X-RAY [X] IR [X] MICRO ANALYSIS [ ] GC [ ]

FOR LAB USE ONLY:
INSTRUMENT USED: AUTOSPEC [ ] MS80 [ ] MD-800 [ ]

EI [ ] CI [ ] FAB [ ] MATRIX (3-NBA OR GLYCEROL) [ ]

MASS RANGE [ ] CALIBRANT PFK/MOD/ULTRA [ ] RESOLUTION [ ]

COMMENTS:
Low resolution EI AND high resolution ESI with composition analysis please.
**Sample Submitted By:** FATAI AFOABI
**Log No.:** 3156

**Date Submitted:** 25/01/2018
**Room or Lab. No.:** 325

**Supervisor's Signature:** EMEV

**Has Hazard Assessment Been Carried Out on This Sample?**
- [ ] Yes
- [X] No

**Has the Information Been Given to the Operator?**
- [ ] Yes
- [X] No

**Sample Code No.:** VO4AF05A
**Molecular Formula:** \( \text{C}_3\text{H}_{22}\text{Au}^+ \text{In, P}^+ \)
**Molecular Weight:** 789.39 g/mol

**Solubility:**
- [ ] Sensitive to
  - [ ] Air/Moisture/Light
  - [ ] Yes
  - [X] No

**Melting Point**

**Structural Formula and Remarks**

**Service Required:**
- [ ] Low Resolution EI
- [X] Low Resolution CI
- [ ] FAB

**For accurate mass see me personally and provide low resolution spectra.**

**Have the Following Analyses Been Run?**
- [ ] NMR
- [ ] X-ray
- [ ] IR
- [ ] Micro Analysis
- [ ] GC
- [ ] MS80
- [X] MD-800
- [ ] EI
- [ ] CI
- [ ] FAB
- [ ] Matrix (3-NBA or Glycerol)

**Mass Range:**
- [ ] Calibrant PFK/Mod/Ultra
- [ ] Resolution

**Comments:**
HRMS please if the low res. is okay, thank you.
**SCHOOL OF LIFE SCIENCE**  
MASS SPECTROSCOPY LABORATORY  
ROOM 2R122 Tel: (01273) 678529 Ext: 8529  
Enquiries to: Dr. A. K. ABDUL-SADA

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**Supervisor's Signature:** EMEV

**Please don't submit more than samples at the same time.**

**Has Hazard Assessment been carried out on this sample?**
- [ ] Yes
- [X] No

**Has the information been given to the operator?**
- [ ] Yes
- [ ] No

| SAMPLE CODE NO. | VO4AF09D |
| MOLECULAR FORMULA | C$_{35}$H$_{28}$AuCl$_{10}$O$_{10}$ |
| MOLECULAR WEIGHT | 788,0 (g/mol) |
| SOLUBILITY | |
| MELTING POINT | |
| BOILING POINT | |

**Flexible Formula and Remarks**

\[
\text{Ph}_{3}P\text{Au-AI-CN} \\
\text{HOC} \\
\text{OCH$_{3}$} \\
\]

**Service Required:**
- Tick relevant boxes
- [ ] Low Resolution EI
- [ ] Low Resolution CI
- [ ] FAB
- [ ] GCMS
- [ ] ESI

**For accurate mass see me personally and provide low resolution spectra.**

**Have the following analyses been run?**
- [ ] NMR
- [ ] X-RAY
- [ ] IR
- [ ] MICRO ANALYSIS
- [ ] GC

**For Lab Use Only:**
- Instrument Used Autospec: [ ]
- MS80: [ ]
- MD-800: [ ]

**EI**
- [ ] CI
- [ ] FAB

**Matrix (3-NBA or Glycerol):**
- [ ]

**Mass Range:**
- [ ] Calibrant PFK/MOD/ULTRA
- [ ] Resolution

**Comments:**
- HRMS please if the low res. is okay, thank you
SCHOOL OF LIFE SCIENCE
MASS SPECTROSCOPY LABORATORY
ROOM 2R122 Tel: (01273) 678529 Ex: 8529
Enquiries to: Dr. A. K. ABDUL-SADA

LOG NO. 9607

SAMPLE SUBMITTED BY: FATAF APOULAW
DATESubmitted: 12/03/2018
ROOM or LAB. NO: 325

SUPERVISOR'S SIGNATURE: EMEV
PLEASE DON'T SUBMIT MORE THAN SAMPLES AT THE SAME TIME.

INT. PHONE NO:
HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPL. YES [ ] NO [ ]
HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR. YES [ ] NO [ ]

SAMPLE CODE NO. V04AF13 D
MOLECULAR FORMULA C_{35}H_{38}AuInO_{12}
MOLECULAR WEIGHT 879.46 g/mol

SOLUBILITY

SOLID [ ] LIQUID [ ] GAS [ ]
SENSITIVE TO:
AIR/MOISTURE/LIGHT [ ]
YES [ ] NO [ ]

MELTING POINT
BOILING POINT

STRUCTURAL FORMULA AND REMARKS

SERVICE REQUIRED: Tick relevant boxes
LOW RESOLUTION EI [ ] LOW RESOLUTION CI [ ] FAB [ ]
GC-MS [ ] ESI [ ]
FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

HAVE THE FOLLOWING ANALYSES BEEN RUN?
NMR [ ] X-RAY [ ] IR [ ] MICRO ANALYSIS [ ] GC [ ]

FOR Lab USE ONLY:
INSTRUMENT USED AUTOSPEC [ ] MS80 [ ] MD-800 [ ]
EI [ ] CI [ ] FAB [ ] MATRIX (3-NBA OR GLYCEROL) [ ]

MASS RANGE CALIBRANT PFK/MOD/ULTRA RESOLUTION

COMMENTS:
HRMS please if the low res. is okay, thank you
**Generic Display Report**

**Analysis Info**
- Analysis Name: D:\Data\Alinanopos\FATAI_9607_000002.d
- Method: pos20090608esi
- Sample Name: POS ESI VO4AF13D
- Comment

**Acquisition Date** 17/02/2018 15:16:46

**Operator** Administrator
**Instrument** apex-iii

---

**Intens.**

\[ \times 10^5 \]

---

**Sum Formula**   **Sigma**   **m/z**   **Err [ppm]**   **Mean Err [ppm]**   **Err [mDa]**   **rdb**   **N Rule**   **e^+**
C_{35}H_{28}Au 111 N 2 O 3 P 1 0.015 879.0542 2.83 2.46 2.16 22.50 ok even

---

Bruker Daltonics DataAnalysis 3.4  
printed: 17/02/2018 15:17:38  
Page 1 of 1
SCHOOL OF LIFE SCIENCE  
MASS SPECTROSCOPY LABORATORY  
ROOM 2R122 Tel: (01273) 678529 Ex: 8529  
Enquiries to: Dr. A. K. ABDUL-SADA

LOG NO. 9238

SAMPLE SUBMITTED BY: FATAI AFOULAB 
SUPERVISOR'S SIGNATURE: EMEV

DATE SUBMITTED: 05/02/2018  
PLEASE DON'T SUBMIT MORE THAN THREE SAMPLES AT THE SAME TIME.

ROOM or LAB. NO.: 325

INT. PHONE NO:  

HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE? YES □ NO □

HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR? YES □ NO □

SAMPLE CODE NO. V04AF17A  
SOLID □ LIQUID □ GAS □

MOLECULAR FORMULA C33H24Au1In2OP  
SENSITIVE TO: AIR/MOISTURE/LIGHT □ YES □ NO □

MOLECULAR WEIGHT 819.49g/mol

SOLUBILITY

MELTING POINT

BOILING POINT

STRUCTURAL FORMULA AND REMARKS

SERVICE REQUIRED: Tick relevant boxes

LOW RESOLUTION EI □ LOW RESOLUTION CI □ FAB □ GC-MS □ ESI □

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

HAVE THE FOLLOWING ANALYSES BEEN RUN?

NMR □ X-RAY □ IR □ MICRO ANALYSIS □ GC □

FOR LAB USE ONLY: INSTRUMENT USED AUTOSPEC □ MS80 □ MD-800 □

EI □ CI □ FAB □ MATRIX (3-NBA OR GLYCEROL)

MASS RANGE □ CALIBRANT PFK/MOD/ULTRA □ RESOLUTION

COMMENTS:

HRMS please if the low res. is okay, thank you
**SCHOOL OF LIFE SCIENCE**  
**MASS SPECTROSCOPY LABORATORY**  
**ROOM 2R122 Tel: (0123) 678529 Ex: 8529**  
Enquiries to: Dr. A. K. ABDUL-SADA

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<td>MOLECULAR FORMULA:</td>
<td>C₈H₈AuBr₃N₂</td>
<td>SENSITIVE TO: AIRMOISTURELIGHT □</td>
<td></td>
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<tr>
<td>MOLECULAR WEIGHT:</td>
<td>832.46925</td>
<td>YES NO □ □</td>
<td></td>
</tr>
<tr>
<td>SOLUBILITY:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MELTING POINT</td>
<td></td>
<td>BOILING POINT</td>
<td></td>
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</table>

**STRUCTURAL FORMULA AND REMARKS**

![Structural formula diagram]

**SERVICE REQUIRED:** Tick relevant boxes

- LOW RESOLUTION EI □ LOW RESOLUTION CI □ FAB □ GC-MS □ ESI □
- FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- NMR □ X-RAY □ IR □ MICRO ANALYSIS □ GC □

**FOR LAB USE ONLY:**
- INSTRUMENT USED AUTOSPEC □ MS80 □ MD-800 □
- EI □ CI □ FAB □ MATRIX (3-NBA OR GLYCEROL)
- MASS RANGE □ CALIBRANT PFK/ MOD/ ULTRA □ RESOLUTION □

**COMMENTS:**

HRMS please if the low res. is okay, thank you
**SAMPLE SUBMITTED BY:** FATAI AFOLABI  
**DATE SUBMITTED:** 05/02/2018  
**ROOM or LAB. NO.:** 325  
**LOG NO.:** 9240

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?** NO  
**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?** NO

**SAMPLE CODE NO.:** VO4AT377  
**MOLECULAR FORMULA:** C34H26Au1N2O6P4  
**MOLECULAR WEIGHT:** 844.94 g/mol

**SOLUBILITY:** 84.9%  
**SERVICE REQUIRED:** Tick relevant boxes  
LOW RESOLUTION EI unchecked, LOW RESOLUTION CI checked, FAB unchecked, GC-MS unchecked, ESI checked

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- NMR
- X-RAY
- IR
- MICRO ANALYSIS
- GC

**FOR LAB USE ONLY:**
- INSTRUMENT USED: AUTOSPEC
  - MS80
  - MD-500
- EI
- CI
- Fab
- MATRIX (3-NBA OR GLYCEROL)
- MASS RANGE
- CALIBRANT PFK/MOD/ULTRA
- RESOLUTION

**COMMENTS:**

HRMS please if the low res. is okay, thank you
### Generic Display Report

**Analysis Info**
- **Data Name**: D:\Data\Aalinopos\FATAL_9240_000001.d
- **Method**: pos20090608esi
- **Sample Name**: POT ESI VO4AF37D
- **Comment**
- **Acquisition Date**: 13/01/2018 16:08:18
- **Operator**: Administrator
- **Instrument**: apex-III

### Mass Spectra

![Mass Spectra Diagram](image)

### Table - Mass Spectrum Data

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<th>Err [ppm]</th>
<th>Mean Error [ppm]</th>
<th>Error [mDa]</th>
<th>rdb</th>
<th>N Rule</th>
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<td>C34 H26 Au11 N2 O2 P1</td>
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<td>22.50</td>
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</tbody>
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*Note: Bruker Daltonics DataAnalysis 3.4 printed: 14/01/2018 09:01:02*
**SCHOOL OF LIFE SCIENCE**
**MASS SPECTROSCOPY LABORATORY**
ROOM 2R122 Tel: (01273) 678529 Ex: 8529
Enquiries to: Dr. A. K. ABDUL-SADA

<table>
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**SAMPLE SUBMITTED BY:** FATAI AFOIAB

**DATE SUBMITTED:**

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**ROOM or LAB. NO.:** 325

**INT. PHONE NO.:**

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?**

<table>
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**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**

<table>
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<th>YES</th>
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</thead>
</table>

**SAMPLE CODE NO.:** V04AF451

**MOLECULAR FORMULA:** C₅₁H₂₆AuClNd₆P

**MOLECULAR WEIGHT:** 757.98 g/mol

**SOLUBILITY**

**MELTING POINT**

**BOILING POINT**

**STRUCTURAL FORMULA AND REMARKS**

![Structural Formula]

**SERVICE REQUIRED:** Tick relevant boxes

- LOW RESOLUTION EI
- LOW RESOLUTION CI
- FAB
- GC-MS
- ESI

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- NMR
- X-RAY
- IR
- MICRO ANALYSIS
- GC

**FOR LAB USE ONLY:**

- INSTRUMENT USED: AUTOSPEC
- MS80
- MD-800

- EI
- CI
- FAB
- MATRIX (3-NBA OR GLYCEROL)

**MASS RANGE**

**CALIBRANT PFK/MOD/ULTRA**

**RESOLUTION**

**COMMENTS:**

HRMS please if the low res. is okay, thank you
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<td>Has The Information Been Given To The Operator:</td>
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<td>Structural Formula and Remarks</td>
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Service Required: Tick relevant boxes

Low Resolution EI ☐ Low Resolution CI ☐ FAB ☐ GC-MS ☒ EST ☒

For accurate mass see me personally and provide low resolution spectra.

Have the following analyses been run?

NMR ☒ X-Ray ☒ IR ☒ Micro Analysis ☒ GC ☒

For lab use only:
- Instrument Used: Autospec ☐ MS80 ☐ MD-800 ☐
- EI ☐ CI ☐ FAB ☐ Matrix (3-NBA or Glycerol) ☐
- Mass Range ☐ Calibrant PFK/Mod/Ultra ☒ Resolution ☒

Comments:

HRMS please if the low res. is okay, thank you
Generic Display Report

Analysis Info
Analysis Name: D:\Data\AllanData\FATAL_9280_000001.d
Method: pos20090608esi
Sample Name: POT ESI
Comment: V04AF53D

Acquisition Date: 22/01/2018 08:13:00
Operator: Administrator
Instrument: apex-III

Intens x10^7
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261.0543

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Bruker Daltonics DataAnalysis 3.4
printed: 22/01/2018 08:14:24
Page 1 of 1
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<td>V06AF01D</td>
<td>C_{34}H_{27}Au_{27}OPS</td>
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<td>739.60 g/mol</td>
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<th>SERVICE REQUIRED: Tick relevant boxes</th>
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<tr>
<td>LOW RESOLUTION EI</td>
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For accurate mass see me personally and provide low resolution spectra.

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<td>INSTRUMENT USED AUTOSPEC</td>
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<th>MATRIX (3-NBA OR GLYCEROL)</th>
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<tr>
<th>MASS RANGE</th>
<th>CALIBRANT PFK/MOD/ULTRA</th>
<th>RESOLUTION</th>
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Comments:
HRMS please if the low res. is okay, thank you
Generic Display Report

Analysis Info
Analysis Name: D:\Data\Alinanopos\FATAI_9245_0000001.d
Method: pos20090608esi
Sample Name: POT ESI VO6AF01D
Comment

Acquisition Date: 13/01/2018 16:14:18
Operator: Administrator
Instrument: apex-III

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<th>m/z</th>
<th>Err [ppm]</th>
<th>Mean Err [ppm]</th>
<th>Err [Da]</th>
<th>rdb</th>
<th>N Rule</th>
<th>e^*</th>
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Bruker Daltonics DataAnalysis 3.4
printed: 14/01/2018 08:56:55
**SCHOOL OF LIFE SCIENCE**  
**MASS SPECTROSCOPY LABORATORY**  
**ROOM 2R122 Tel: (01273) 678529 Ex: 8529**  
**Enquiries to: Dr. A. K. ABDUL-SADA**

<table>
<thead>
<tr>
<th>SAMPLE SUBMITTED BY:</th>
<th>FATAI AFOFABI</th>
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<tr>
<td>DATE SUBMITTED:</td>
<td>05/02/2018</td>
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<td>ROOM or LAB. NO:</td>
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<td>INT. PHONE NO:</td>
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<td>LOG NO.</td>
<td>G246</td>
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<td>SUPERVISOR'S SIGNATURE:</td>
<td>EMEV</td>
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</table>

**PLEASE DON'T SUBMIT MORE THAN SAMPLES AT THE SAME TIME.**

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?**  
- [ ] YES  
- [x] NO

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**  
- [ ] YES  
- [x] NO

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<th>SAMPLE CODE NO.</th>
<th>V06A05A</th>
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<td>MOLECULAR FORMULA</td>
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<tr>
<td>MOLECULAR WEIGHT</td>
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<tr>
<td>SOLUBILITY</td>
<td>SENSITIVE TO: AIR/MOISTURE/LIGHT</td>
</tr>
<tr>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>BOILING POINT</td>
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</tbody>
</table>

**SERVICE REQUIRED:**  
Tick relevant boxes  
- [ ] LOW RESOLUTION EI  
- [ ] LOW RESOLUTION CI  
- [ ] FAB  
- [ ] GC-MS  
- [x] ESI

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**  
- [ ] NMR  
- [ ] X-RAY  
- [ ] IR  
- [ ] MICRO ANALYSIS  
- [ ] GC

**FOR LAB USE ONLY:**  
INSTRUMENT USED AUTOSPEC  
- [ ] MS80  
- [ ] MD-500

EI  
- [ ] CI  
- [ ] FAB

**MATRIX (3-NBA OR GLYCEROL)**  
- [ ]

**MASS RANGE**  
- [ ] CALIBRANT PFK/MOD/ULTRA  
- [ ] RESOLUTION

**COMMENTS:**

HRMS please if the low res. is okay, thank you
Generic Display Report

Analysis Info
Analysis Name: D:\Data\Alinanposi\FATAI_9246_000003.d
Method: pos20090608esi
Sample Name: POT ESI VO4AF05D
Comment

Intens. x10^6

Acquisition Date: 14/01/2018 09:42:45
Operator: Administrator
Instrument: apex-III

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</table>
SAMPLE SUBMITTED BY: FATAI AFOLAJI
DATE SUBMITTED: 06/02/2018
ROOM or LAB. NO: 325

HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE? YES □  NO □  
HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR? YES □  NO □  

SAMPLE CODE NO: VO6AF13D
MOLECULAR FORMULA: C_{36}H_{31}AuN_{2}O_{2}P_{3}S
MOLECULAR WEIGHT: 799.65g/mol

SOLUBILITY:
MELTING POINT:

STRUCTURAL FORMULA AND REMARKS:

SERVICE REQUIRED: Tick relevant boxes
LOW RESOLUTION EI □  LOW RESOLUTION CI □  FAB □  
GC-MS □  ESI □  
FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

HAVE THE FOLLOWING ANALYSES BEEN RUN?
NMR □  X-RAY □  IR □  MICRO ANALYSIS □  GC □  
FOR LAB USE ONLY: INSTRUMENT USED AUTOSPEC □  MS80 □  MD-800 □  
EI □  CI □  FAB □  MATRIX (3-NBA OR GLYCEROL) □  
MASS RANGE □  CALIBRANT PFK/MOD/ULTRA □  RESOLUTION □  

COMMENTS:
HRMS please if the low res. is okay, thank you
**Sample Submitted By:**

**Date Submitted:**

**Room or Lab. No.:**

**Int. Phone No.:**

**Has Hazard Assessment Been Carried Out On This Sample?**

**Has the Information Been Given to the Operator?**

**Sample Code No.:**

**Molecular Formula:**

**Molecular Weight:**

**Solubility:**

**Melting Point**

**Boiling Point**

**Structural Formula and Remarks**

**Service Required:** Tick relevant boxes

**Low Resolution Ei**

**Low Resolution Ci**

**Fab**

**Gc-Ms**

**Esi**

**Have the Following Analyses Been Run?**

**Nmr**

**X-Ray**

**Ir**

**Micro Analysis**

**GC**

**For Lab Use Only:**

**Instrument Used Autospec**

**Ms80**

**Md-800**

**Ei**

**Ci**

**Fab**

**Matrix (3-NBA or Glycerol)**

**Mass Range**

**Calibrant Pfk/MOd/Ultra Resolution**

**Comments:**

HRMS please if the low res. is okay, thank you
Analysis Info
Analysis Name: D:\Data\Alinanpos\FATAL_90250_000001.d
Method: pos20090608esi
Sample Name: POT ESI VO6AF29D
Comment

Intens. x10^7

2.5
2.0
1.5
1.0
0.5
0.0

m/z
295.1052
491.0870
753.1619
953.0681
1045.0367

+MS

Sum Formula | Sigma | m/z  | Err [ppm] | Mean Err [ppm] | Err [mDa] | rdb | N Rule | e^−
--------- | ------ | ---- | -------- | -------------- | -------- | ---- | ------ | ---
C 35 H 29 Au 1 N 2 O 3 P 1 | 0.034 | 753.1576 | -5.68 | -2.73 | -2.06 | 22.50 | ok | even

Acquisition Date: 15/01/2018 09:16:42
Operator: Administrator
Instrument: apex-III

Bruker Daltonics DataAnalysis 3.4
printed: 15/01/2018 09:17:52
Page 1 of 1
SCHOOL OF LIFE SCIENCE
MASS SPECTROSCOPY LABORATORY
ROOM 2R122 Tel: (01273) 678529 Ex: 8529
Enquiries to: Dr. A. K. ABDUL-SADA

LOG NO. 9252

SAMPLE SUBMITTED BY: FATI APOULAB
DATE SUBMITTED: THREE 06/02/2018
ROOM or LAB. NO.: 325

SUPERVISOR'S SIGNATURE: EMEV
PLEASE DON'T SUBMIT MORE THAN SAMPLES AT THE SAME TIME.

INT. PHONE NO:

HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE? YES [ ] NO [ ]

HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR? YES [ ] NO [ ]

SAMPLE CODE NO.: VQ6AF37D
MOLECULAR FORMULA: C35H29AuN4PS5
MOLECULAR WEIGHT: 769.63 g/mol

SOLID [ ] LIQUID [ ] GAS [ ]
SENSITIVE TO: AIR/MOISTURE/LIGHT [ ]
YES [ ] NO [ ]

SOLUBILITY
MELTING POINT
BOILING POINT

STRUCTURAL FORMULA AND REMARKS

SERVICE REQUIRED: Tick relevant boxes
LOW RESOLUTION EI [ ] LOW RESOLUTION CI [ ] FAB [ ] GC-MS [ ] ESI [ ]
FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

HAVE THE FOLLOWING ANALYSES BEEN RUN?

NMR [ ] X-RAY [ ] IR [ ] MICRO ANALYSIS [ ] GC [ ]

FOR LAB USE ONLY: INSTRUMENT USED AUTOSPEC [ ] MS80 [ ] MD-800 [ ]

EI [ ] CI [ ] FAB [ ] MATRIX (3-NBA OR GLYCEROL) [ ]

MASS RANGE [ ] CALIBRANT PFK/MOD/ULTRA [ ] RESOLUTION [ ]

COMMENTS:
HRMS please if the low res. is okay, thank you
**US**

**SCHOOL OF LIFE SCIENCE**
**MASS SPECTROSCOPY LABORATORY**
**ROOM 2R122 Tel: (01273) 678529 Ex: 8529**
**Enquiries to: Dr. A. K. ABDUL-SADA**

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<td>INT. PHONE NO:</td>
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**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?**

- [ ] Yes
- [x] No

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**

- [ ] Yes
- [x] No

**SAMPLE CODE NO.:** V06AF49D

**MOLECULAR FORMULA:** C$_{33}$H$_{25}$AuN$_{2}$

**MOLECULAR WEIGHT:** 693.52

**SOLUBILITY**

**MELTING POINT**

**STRUCTURAL FORMULA AND REMARKS**

![Chemical Structure](image)

**SERVICE REQUIRED:**

- [ ] Tick relevant boxes

- [ ] LOW RESOLUTION EI
- [ ] LOW RESOLUTION CI
- [ ] FAB
- [x] GC-MS
- [x] ESI

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- [ ] NMR
- [ ] X-RAY
- [ ] IR
- [ ] MICRO ANALYSIS
- [ ] GC

**FOR LAB USE ONLY:**

- [ ] INSTRUMENT USED AUTOSPEC
- [ ] MS80
- [ ] MD-800

**EI**

- [ ] CI
- [ ] FAB

**MATRIX (3-NBA OR GLYCEROL)**

- [ ] CALIBRANT PFK/MOD/ULTRA
- [ ] RESOLUTION

**COMMENTS:**

HRMS please if the low res. is okay, thank you
**SCHOOL OF LIFE SCIENCE**
**MASS SPECTROSCOPY LABORATORY**
**ROOM 2R122 Tel: (01273) 678529 Ex: 8529**
**Enquiries to: Dr. A. K. ABDUL-SADA**

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**LOG NO.** 9284

**SUPERVISOR'S SIGNATURE:** EMEV

**PLEASE DON'T SUBMIT MORE THAN** SAMPLES AT THE SAME TIME.

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?** YES □ NO □

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?** YES □ NO □

**SAMPLE CODE NO.:** VO6AF53D

**MOLECULAR FORMULA:** $\text{C}_32\text{H}_{37}\text{AuF}_7\text{P}^+$

**MOLECULAR WEIGHT:** 681.48 g/mol

**SENSITIVE TO:**
- **AIR/MOISTURE/LIGHT:** SENSITIVE □ NON-SENSITIVE □
- **YES □ NO □**

**SOLUBILITY**

**MELTING POINT**

**STRUCTURAL FORMULA AND REMARKS**

\[ \text{P}_2\text{P-Au-\_3CN} \]

**681.1804**

**SERVICE REQUIRED:** Tick relevant boxes

- LOW RESOLUTION EI □
- LOW RESOLUTION CI □
- FAB □
- GC-MS □
- ESI □

**FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.**

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- NMR \( \checkmark \)
- X-RAY \( \checkmark \)
- IR \( \checkmark \)
- MICRO ANALYSIS \( \checkmark \)
- GC \( \checkmark \)

**FOR LAB USE ONLY: INSTRUMENT USED AUTOSEC** □

- MS80 □
- MD-800 □

**EI □ CI □ FAB □**

- MATRIX (3-NBA OR GLYCEROL) □

**MASS RANGE □**

- CALIBRANT PFK/MD/ULTRA □
- RESOLUTION □

**COMMENTS:**

HRMS please if the low res. is okay, thank you.
**Sample Submitted By:** Fatae Afsal

**Date Submitted:** 22/11/2017

**Room or Lab No.:** 325

**Log No.:** 8989

**Sample Code No.:** V04AF61D

**Molecular Formula:** C_{26}H_{23}AuN_{4}P

**Molecular Weight:** 619.44 g/mol

**SOLUBILITY**

**SERVICE REQUIRED:**
- Tick relevant boxes:
  - Low Resolution EI
  - Low Resolution CI
  - FAB
  - GC-MS
  - ESI
  
  *FOR ACURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.*

**Have the Following Analyses Been Run?**

- NMR
- X-ray
- IR
- Micro Analysis
- GC

**For Lab Use Only:**
- Instrument Used: Autospec
- MS80
- MD-800

**EI CI FAB MATRIX (3-NBA OR GLYCEROL)**

**Mass Range:**
- Calibrant PFK/Mod/Ultra
- Resolution

**Comments:**
HRMS please if the low res. is okay, thank you
**SCHOOL OF LIFE SCIENCE**  
**MASS SPECTROSCOPY LABORATORY**  
**ROOM 2R122 Tel: (01273) 678529 Ext: 8529**  
Enquiries to: Dr. A. K. ABDUL-SADA  

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<th>FATAI AFOLABI</th>
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<td>22/11/2017</td>
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<td>325</td>
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<td>INT. PHONE NO.:</td>
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**LOG NO. 8993**  

**SUPERVISOR’S SIGNATURE:** EMEY  

**PLEASE DON'T SUBMIT MORE THAN ONE SAMPLE AT THE SAME TIME.**

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<th>C44H60BrNAuPH3+</th>
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<td>MOLECULAR WEIGHT</td>
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<td>BOILING POINT</td>
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**STRUCTURAL FORMULA AND REMARKS**

![Structural Formula]

**SERVICE REQUIRED:** Tick relevant boxes

- LOW RESOLUTION EI ☐
- LOW RESOLUTION CI ☐
- FAB ☐
- GC-MS ☐
- ESI ☑

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

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<th>NMR</th>
<th>☑</th>
<th>X-RAY</th>
<th>☑</th>
<th>IR</th>
<th>☑</th>
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<th>GC</th>
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**FOR LAB USE ONLY:**

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<tr>
<td>MATRIX (3-NBA OR GLYCEROL)</td>
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<td>CALIBRANT PFK/MOD/ULTRA</td>
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<td>RESOLUTION</td>
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**COMMENTS:**

HRMS please if the low res. is okay, thank you
**Sample Submitted By:** FATAL AFOLABI

**Date Submitted:** 22/12/2017

**Room or Lab. No.:** 325

**Log No.:** 8991

**Supervisor's Signature:** EMEV

---

**Has Hazard Assessment Been Carried Out On This Sample?**  Yes ☑ NO 

**Has The Information Been Given To The Operator?**  YES ☑ NO 

**Sample Code No.:** V04AF69D

**Molecular Formula:** C_{51}H_{61}B_{1}N_{1}AuP_{3}H_{3}

**Molecular Weight:** 711.38 g/mol

**SOLUBILITY**

**Melting Point**

**Boiling Point**

**Structural Formula and Remarks**

![Structural Formula]

**Service Required:** Tick relevant boxes

- Low Resolution ESI ☑
- GC-MS ☑
- ESI ☑

**For Accurate Mass See Me Personally and Provide Low Resolution Spectra.**

**Have The Following Analyses Been Run?**

- NMR ☑
- X-Ray ☑
- IR ☑
- Micro Analysis ☑
- GC ☑

**For Lab Use Only:**

- Instrument Used Autospec ☑
- MS80 ☑
- MD-800 ☑

- EI ☑
- CI ☑
- FAB ☑
- Matrix (3-NBA or Glycerol) ☑

**Mass Range:**

**Calibrant PFK/Mod/Ultra Resolution**

**Comments:**

HRMS please if the low res. is okay, thank you
**SAMPLE SUBMITTED BY:** FATAI AFOLABI  
**DATE SUBMITTED:** 22/11/2017  
**ROOM/LAB NO.:** 325  
**LOG NO.:** 8992

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?**  
YES [ ] NO [ ]

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**  
YES [ ] NO [ ]

**SAMPLE CODE NO.:** VO4AF73D  
**MOLECULAR FORMULA:** C6H9N4DAuP3  
**MOLECULAR WEIGHT:** 611.42 g/mol

**SOLUBILITY:**  
**MELTING POINT:**

**BOILING POINT:**

**STRUCTURAL FORMULA AND REMARKS:**

![Structural Formula](attachment://structural_formula.png)

**SERVICE REQUIRED:** Tick relevant boxes  
LOW RESOLUTION EI [ ] LOW RESOLUTION CI [ ] FAB [ ] GC-MS [ ] ESI [ ]

**FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.**

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**  
**NMR** [ ] **X-RAY** [ ] **IR** [ ] **MICRO ANALYSIS** [ ] **GC** [ ]

**FOR LAB USE ONLY:**  
**INSTRUMENT USED AUTOPEC** [ ] MS80 [ ] MD-800 [ ]

**EI** [ ] **CI** [ ] **FAB** [ ] **MATRIX (3-NBA OR GLYCEROL)** [ ]

**MASS RANGE** [ ] **CALIBRANT PFK/MOD/ULTRA** [ ] **RESOLUTION** [ ]

**COMMENTS:**

HRMS please if the low res. is okay, thank you
**US**

**SCHOOL OF LIFE SCIENCE**  
**MASS SPECTROSCOPY LABORATORY**  
**ROOM 2R122 Tel: (01273) 678529 Ex: 8539**  
**Enquiries to: Dr. A. K. ABDUL-SADA**

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<td><strong>DATE SUBMITTED:</strong></td>
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<tr>
<td><strong>SUPERVISOR’S SIGNATURE:</strong></td>
<td><strong>EMEV</strong></td>
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**PLEASE DON’T SUBMIT MORE THAN SAMPLES AT THE SAME TIME.**

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?**  
- YES [ ]  
- NO [x]  

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**  
- YES [x]  
- NO [ ]

| **SAMPLE CODE NO.** | **VO4AF-77-D** |
| **MOLECULAR FORMULA** | **C_{44}H_{26}N_{6}Au_{2}P_{3}** |
| **MOLECULAR WEIGHT** | **635.28g/mol** |
| **SOLUBILITY** |  
| **MELTING POINT** |  
| **BOILING POINT** |  

**STRETASTIC FORMULA AND REMARKS**

![Structural Formula](image)

**SERVICE REQUIRED:**  
- Tick relevant boxes  
- LOW RESOLUTION [ ]  
- CI [ ]  
- FAB [x]  
- GC-MS [ ]  
- ESI [x]

**FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.**

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

| **NMR** | Yes |
| **X-RAY** | Yes |
| **IR** | Yes |
| **MICRO ANALYSIS** |  
| **GC** |  

**FOR LAB USE ONLY:**  
- INSTRUMENT USED [ ]  
- AUTOPEC [ ]  
- MS80 [ ]  
- MD-800 [ ]

| **EI** |  
| **CI** |  
| **FAB** |  
| **MATRIX (3-NBA OR GLYCEROL)** |  
| **MASS RANGE** |  
| **CALIBRANT PFK/MOD/ULTRA** |  
| **RESOLUTION** |  

**COMMENTS:**

HRMS please if the low res. is okay, thank you
### Laboratory Analysis Form

**SCHOOL OF LIFE SCIENCE**
**MASS SPECTROSCOPY LABORATORY**
**ROOM 2R122 Tel: (01273) 678529 Ext: 8529**
**Enquiries to: Dr. A. K. ABDUL-SADA**

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**DATE SUBMITTED:**
27/02/18

**ROOM or LAB. NO.:**
325

**PLEASE DON'T SUBMIT MORE THAN SAMPLES AT THE SAME TIME.**

**INT. PHONE NO.:**

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?**
- [ ] Yes
- [x] No

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**
- [ ] Yes
- [x] No

**SAMPLE CODE NO.:**
V07AF21D

**MOLECULAR FORMULA:**
C14H7AgClN2+ (NO2)

**MOLECULAR WEIGHT:**
346.57 g/mol

**SOLUBILITY:**

**MELTING POINT:**

**BOILING POINT:**

**STRUCTURAL FORMULA AND REMARKS:**

### Service Required

**LOW RESOLUTION:**
- [ ] EI
- [ ] CI
- [ ] FAB
- [ ] GC-MS
- [x] ESI

**FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.**

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

<table>
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<th>NMR</th>
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<th>IR</th>
<th>MICRO ANALYSIS</th>
<th>GC</th>
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**FOR LAB USE ONLY:**

**INSTRUMENT USED AUTOSPEC:**
- [ ] MS80
- [ ] MD-800

**EI | CI | FAB | MATRIX (3-NBA OR GLYCEROL) |

**MASS RANGE:**

**CALIBRANT:**
PFK/MOD/ULTRA

**RESOLUTION:**

**COMMENTS:**
HRMS please if the low res. is okay, thank you
Generic Display Report

Analysis Info
Analysis Name: D:\Data\Alinanpos\FATAI_9346_000001.d
Method: pos20090608esi
Sample Name: POS ESI V07AF21D
Comment

Acquisition Date: 05/02/2018 10:22:15
Operator: Administrator
Instrument: apex-III

Intens. x10^6

--- +MS

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<th>Err [mDa]</th>
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<th>N Rule</th>
<th>e^-</th>
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Bruker Daltonics DataAnalysis 3.4 printed: 05/02/2018 10:23:32 Page 1 of 1
**US**
SCHOOL OF LIFE SCIENCE
MASS SPECTROSCOPY LABORATORY
ROOM 2R122 Tel: (01235) 678523 Ext: 8529
Enquiries to: Dr. A. K. ABDUL-SADA

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<td>BOILING POINT</td>
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**STRUCTURAL FORMULA AND REMARKS**

![Structural Formula](image)

**SERVICE REQUIRED:** Tick relevant boxes

- LOW RESOLUTION EI [ ]
- LOW RESOLUTION CI [ ]
- FAR [ ]
- GC-MS [ ]
- ESI [ ]

*FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.*

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- NMR [ ] X-RAY [ ] IR [ ] MICRO ANALYSIS [ ] GC [ ]
- FOR LAB USE ONLY: INSTRUMENT USED AUTOSPEC [ ] MS80 [ ] MD-800 [ ]
- EI [ ] CI [ ] FAB [ ] MATRIX (3-NBA OR GLYCEROL) [ ]
- MASS RANGE [ ] CALIBRANT PFICO/NO/ULTRA [ ] RESOLUTION [ ]

**COMMENTS:**

HRMS please if the low res. is okay, thank you.
Generic Display Report

Analysis Info
Analysis Name: D:\Data\Alinanopo\FATAI_9347_000001.d
Method: pos20090608esi
Sample Name: POS ESI V07AF25D
Comment

Intensity x10^5

388.1760
390.1760

375.1094 377.1078 386.1613

Sum Formula  Sigma  m/z  Err [ppm]  Mean Err [ppm]  Err [mDa]  rdb  N Rule  e^-
C 14  H 7  Ag 1  Br 1  N 2  0.012  388.8838  0.38  -2.11  -0.83  11.50  ok  even

Bruker Daltonics Data Analysis 3.4
printed: 05/02/2018 10:29:22
### Analysis Info
- **Analysis Name**: D:\Data\Alinanopos\FATAI_9347_000001.d
- **Method**: pos2009606esi
- **Sample Name**: POS ESI V07AF25D
- **Comment**:

### Acquisition Date
- **05/02/2018 10:25:43**

### Operator
- **Administrator**

### Instrument
- **apex-III**

---

**Graph**

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**Bruker Daltonics DataAnalysis 3.4**

**printed:** 05/02/2018 10:30:24

**Page 1 of 1**
**US**

SCHOOL OF LIFE SCIENCE  
MASS SPECTROSCOPY LABORATORY  
ROOM 2R12 Tel: (01273) 678529 Ex: 8529  
Enquiries to: Dr. A. K. ABDUL-SADA

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<td>ROOM or LAB. NO.:</td>
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HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE:  
**YES**  
**NO**

HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR:  
**YES**  
**NO**

SAMPLE CODE NO.  
**V07AF29A**

MOLECULAR FORMULA  
**C15H9A8CIN2O**

MOLECULAR WEIGHT  
**376.54**

SOLUBILITY  

MELTING POINT  

BOILING POINT  

**STRUCTURAL FORMULA AND REMARKS**

![Structural formula](attachment:image.png)

**SERVICE REQUIRED:** Tick relevant boxes  
LOW RESOLUTION EI  
LOW RESOLUTION CI  
FAB  
GC-MS  
ESI

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**  

<table>
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<tr>
<th>NMR</th>
<th>X-RAY</th>
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<th>GC</th>
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</table>

FOR LAB USE ONLY:  
INSTRUMENT USED AUTOSPEC  
MS80  
MD-800

EI  
CI  
FAB  
MATRIX (3-NBA OR GLYCEROL)

**MASS RANGE**  
CALIBRANT PFK/MOD/ULTRA  
RESOLUTION

**COMMENTS:**  
HRMS please if the low res. is okay, thank you
**Generic Display Report**

**Analysis Info**
- Analysis Name: D:\Data\Alinanpos\FATAI_9348_000002.d
- Method: pos20090608esi
- Sample Name: POS ESI V07AF29D
- Comment:

**Acquisition Date** 05/02/2018 10:50:34
- Operator: Administrator
- Instrument: apex-III

---

**Graph**

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Bruker Daltonics DataAnalysis 3.4

printed: 05/02/2018 10:53:52

Page 1 of 1
**SAMPLE SUBMITTED BY:** FATAI AFOLARI

**DATE SUBMITTED:** 27/02/18

**ROOM or LAB NO:** 325

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?** Yes [ ] No [x]

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?** Yes [x] No [ ]

**SAMPLE CODE NO:** VD7AF41D

**MOLECULAR FORMULA:** C17H13AgClW1.5

**MOLECULAR WEIGHT:** 436.62 g/mol

**SOLUBILITY:**

**MELTING POINT:**

**BOILING POINT:**

See structural formula and remarks.

**SERVICE REQUIRED:**

- Tick relevant boxes
- Low resolution EI [ ] Low resolution CI [ ] FAB [ ] GC-MS [ ] EST [ ]

For accurate mass see me personally and provide low resolution spectra.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- NMR [ ] X-RAY [ ] IR [ ] MICRO ANALYSIS [ ] GC [ ]

**FOR LAB USE ONLY:**

- Instrument used AUTOSPEC [ ] MS80 [ ] MD-800 [ ]

- EI [ ] CI [ ] FAB [ ] MATRIX (3-NBA OR GLYCEROL) [ ]

- Mass range [ ] Calibrant PFK/Mod/Ultra [ ] Resolution [ ]

**COMMENTS:**

HRMS please if the low res. is okay, thank you.
<table>
<thead>
<tr>
<th>SAMPLE SUBMITTED BY:</th>
<th>FATAI AHOLABI</th>
<th>SUPERVISOR'S SIGNATURE: EMEY</th>
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<tbody>
<tr>
<td>DATE SUBMITTED:</td>
<td>27/02/18</td>
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<tr>
<td>ROOM or LAB. NO:</td>
<td>325</td>
<td>SAMPLES AT THE SAME TIME.</td>
</tr>
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<td>INT. PHONE NO:</td>
<td></td>
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**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?**
- [ ] YES
- [X] NO

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**
- [X] YES
- [ ] NO

<table>
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<th>SAMPLE CODE NO.</th>
<th>V07AF49A</th>
<th>SOLID [ ] LIQUID [ ] GAS [ ]</th>
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<tbody>
<tr>
<td>MOLECULAR FORMULA</td>
<td>C17H13A2B2N2O2</td>
<td>SENSITIVE TO: AIR/MOISTURE/LIGHT [ ]</td>
</tr>
<tr>
<td>MOLECULAR WEIGHT</td>
<td>481.0741 mol</td>
<td>[ ] YES [X] NO</td>
</tr>
</tbody>
</table>

**SOLUBILITY**
- [X] BOILING POINT

**MELTING POINT**

**STRUCTURAL FORMULA AND REMARKS**

\[ \text{\includegraphics[width=0.5\textwidth]{structural_formula.png}} \]

**SERVICE REQUIRED:**
- Tick relevant boxes
  - [ ] LOW RESOLUTION EI
  - [ ] LOW RESOLUTION CI
  - [X] FAB
  - [ ] GC-MS
  - [X] ESI

FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**
- [ ] NMR
- [ ] X-RAY
- [ ] IR
- [ ] MICRO ANALYSIS
- [ ] GC

**FOR LAB USE ONLY:**
- [ ] INSTRUMENT USED AUTOSPEC
- [X] MS90
- [ ] MD-800

**EI [ ] CI [ ] FAB [ ]**
- MATRIX: (3-NBA OR GLYCEROL)
- MASS RANGE [ ]
- CALIBRANT PFK/MOD/ULTRA
- RESOLUTION [ ]

**COMMENTS:**
- HRMS please if the low res. is okay, thank you.
US
SCHOOL OF LIFE SCIENCE
MASS SPECTROSCOPY LABORATORY
ROOM 2R132 Tel: (01275) 678529 Ex: 8525
Enquiries to: Dr. A. K. ABDULL-SADA

LOG NO. 9578

SAMPLE SUBMITTED BY: FAFAFARLABS
DATE SUBMITTED: 08/03/18
ROOM or LAB. NO.: 325

SUPERVISOR'S SIGNATURE: EMEN

PLEASE DON'T SUBMIT MORE THAN
SAMPLES AT THE SAME TIME.

HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE: YES [ ] NO [ ]
HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR: YES [ ] NO [ ]

SAMPLE CODE NO. V07AF010
MOLECULAR FORMULA C8H8AgN4
MOLECULAR WEIGHT 268.65012
SOLUBILITY SENSITIVE TO:
- AIR
- MOISTURE
- LIGHT

VENUS 010

+ STRUCTURAL FORMULA AND REMARKS

SERVICE REQUIRED: Tick relevant boxes
LOW RESOLUTION EI [ ] LOW RESOLUTION CI [ ] FAB [ ] GC-MS [ ] ESI [ ]
FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.

HAVE THE FOLLOWING ANALYSES BEEN RUN?

NMR [ ] X-RAY [ ] IR [ ] MICRO ANALYSIS [ ] GC [ ]
FOR LAB USE ONLY: INSTRUMENT USED: AUTOSPEC [ ] MS80 [ ] MD-800 [ ]

Et [ ] GF [ ] FAB [ ] MATRIX (3-NBA OR GLYCEROL) [ ]
MASS RANGE [ ] CALIBRANT PFK/MOD/ULTRA [ ] RESOLUTION [ ]

COMMENTS:
HRMS please if the low res. is okay, thank you
Generic Display Report

Analysis Info
Analysis Name: D:\Data\Alinanopos\FATAI_9578_000001.d
Method: pos20090608esi
Sample Name: POS ESI V07AF01D
Comment:

Acquisition Date: 13/02/2018 15:24:52
Operator: Administrator
Instrument: apex-III

Intens x10^6

619.1354
566.3565
753.1300

427.0560

266.9799
299.0086

487.0599

697.0381

Sum Formula | Sigma | m/z    | Err [ppm] | Mean Err [ppm] | Err [mDa] | rdb | N Rule | e^-
C 8 H 8 Ag 1 N 4 | 0.064 | 266.9794 | -1.81 | -2.70 | -0.72 | 6.50 | ok | even

Bruker Daltonics DataAnalysis 3.4
printed: 13/02/2018 15:26:15
Page 1 of 1
<table>
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<tr>
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<td><strong>DATE SUBMITTED:</strong></td>
<td>23/02/18</td>
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<tr>
<td><strong>ROOM or LAB. NO:</strong></td>
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<td><strong>LOG NO.</strong></td>
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<tr>
<td><strong>SUPERVISOR'S SIGNATURE:</strong></td>
<td>EMEV</td>
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</table>

**PLEASE DON'T SUBMIT MORE THAN **
**SAMPLES AT THE SAME TIME.**

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPL.**
**YES** □  **NO** □

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR.**
**YES** □  **NO** □

**SAMPLE CODE NO.**
**VO7AF05D**

**MOLECULAR FORMULA**
**C9H7AgBrN3**

**MOLECULAR WEIGHT**
**344.95g/mol**

**SOLUBILITY**

**SOLID** □  **LIQUID** □  **GAS** □

**SENSITIVE TO:**
**AIR/MOISTURE/LIGHT** □

**STRUCTURAL FORMULA AND REMARKS**

![Structural Formula](image)

**SERVICEx REQUIRED:**
Tick relevant boxes
- LOW RESOLUTION EI □  LOW RESOLUTION CI □  FAB □  GC-MS □  ESI □

**FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.**

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

<table>
<thead>
<tr>
<th><strong>NMR</strong></th>
<th><strong>X-RAY</strong></th>
<th><strong>IR</strong></th>
<th><strong>MICRO ANALYSIS</strong></th>
<th><strong>GC</strong></th>
</tr>
</thead>
</table>

**FOR LAB USE ONLY:**
**INSTRUMENT USED AUTOSPEC** □  **MS80** □  **MD-800** □

**EI** □  **CI** □  **FAB** □  **MATRIX (3-NBA OR GLYCEROL)**

**MASS RANGE** □  **CALIBRANT PF/PM/ULTRA** □  **RESOLUTION** □

**COMMENTS:**
HRMS please if the low res. is okay, thank you
Table 'GenFormulaResults' could not be found in this analysis
### Analysis Info
- **Analysis Name**: D:\Data\Alinanopost\FATAI_9329_000001.d
- **Method**: pos20090508esi
- **Sample Name**: POT ESI VO7AF05D
- **Comment**

### Acquisition Info
- **Acquisition Date**: 31/01/2018 12:20:15
- **Operator**: Administrator
- **Instrument**: apex-III

### Mass Spectrogram

#### Mass List

<table>
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<tr>
<th>Sum Formula</th>
<th>Sigma</th>
<th>m/z</th>
<th>Err [ppm]</th>
<th>Mean Err [ppm]</th>
<th>Err [mDa]</th>
<th>rdb</th>
<th>N Rule</th>
<th>e'</th>
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</thead>
<tbody>
<tr>
<td>C9 H8 Ag 1 Br 1 N 3</td>
<td>0.027</td>
<td>343.8947</td>
<td>-0.40</td>
<td>-0.44</td>
<td>-0.15</td>
<td>6.50</td>
<td>ok</td>
<td>even</td>
</tr>
</tbody>
</table>

---

---
**US**

SCHOOL OF LIFE SCIENCE  
MASS SPECTROSCOPY LABORATORY  
ROOM 2R12 TEL: (01273) 678529 EX: 5529  
Enquiries to: Dr. A. K. ABDUL-SADA

<table>
<thead>
<tr>
<th>SAMPLE SUBMITTED BY:</th>
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<tr>
<td>DATE SUBMITTED:</td>
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<td>LOC NO.</td>
<td>9330</td>
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**SUPERVISOR’S SIGNATURE:** EMEN

**PLEASE DON’T SUBMIT MORE THAN**

**SAMPLES AT THE SAME TIME.**

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPL?**  
YES [ ] NO [x]  

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**  
YES [ ] NO [x]  

**SAMPLE CODE NO.**  
V07AF09D

**MOLECULAR FORMULA**  
C$_{10}$H$_{9}$AgBr$_{5}$N$_{3}$$^+$

**MOLECULAR WEIGHT**  
358.499g/mol

**SOLUBILITY**  
SENSITIVE TO AIR/MOISTURE/LIGHT  
YES [ ] NO [x]

**MELTING POINT**  
BOILING POINT

+ **STRUCTURAL FORMULA AND REMARKS**

![Structural formula]

**SERVICE REQUIRED:**  
Tick relevant boxes  
LOW RESOLUTION EI [ ] LOW RESOLUTION CI [ ] FAB [ ] GC-MS [ ] ESI [x]

**FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.**

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

<table>
<thead>
<tr>
<th>NMR</th>
<th>X-RAY</th>
<th>IR</th>
<th>MICRO ANALYSIS</th>
<th>GC</th>
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**FOR LAB USE ONLY:**  
INSTRUMENT USED AUTOSPEC [ ] MD-30 [x] MD-800 [ ]

<table>
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<th>EI</th>
<th>CI</th>
<th>FAB</th>
<th>MATRIX (3-NBA OR GLYCEROL)</th>
</tr>
</thead>
</table>

**MASS RANGE**  
CALIBRANT PFK/4CD/ULTRA  
RESOLUTION

**COMMENTS:**  
HRMS please if the low res. is okay, thank you
Generic Display Report

Analysis Info
Analysis Name: D:\Data\Alinanopo\FATAI_9330_0000001.d
Method: pos20090608esi
Sample Name: POT ESI VO7AF09D
Comment

Acquisition Date: 31/01/2018 12:17:27
Operator: Administrator
Instrument: apex-III

--- Chart ---

- Mass: m/z 359.9098
- Mass: m/z 377.9210
- Mass: m/z 391.9372

--- Table ---

<table>
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<tr>
<th>Sum Formula</th>
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<th>Err [ppm]</th>
<th>Mean Err [ppm]</th>
<th>Err [mDa]</th>
<th>rdb</th>
<th>N Rule</th>
<th>e^-</th>
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</thead>
<tbody>
<tr>
<td>C10H10Ag1Br1N3</td>
<td>0.056</td>
<td>357.9104</td>
<td>-4.47</td>
<td>-4.95</td>
<td>-1.78</td>
<td>6.50</td>
<td>ok</td>
<td>even</td>
</tr>
</tbody>
</table>

--- Footer ---

Bruker Daltonics DataAnalysis 3.4

Printed: 31/01/2018 12:18:44

Page 1 of 1
**US**
SCHOOL OF LIFE SCIENCE
MASS SPECTROSCOPY LABORATORY
ROOM 2R122 Tel: (01273) 678529 Ex: 8529
Enquiries to: Dr. A. K. ABDUL-SADA

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<td>EMEV</td>
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</table>

**HAS HAZARD ASSESSMENT BEEN CARRIED OUT ON THIS SAMPLE?**

- [ ] Yes
- [x] No

**HAS THE INFORMATION BEEN GIVEN TO THE OPERATOR?**

- [x] Yes
- [ ] No

<table>
<thead>
<tr>
<th>SAMPLE CODE NO.</th>
<th>V07AF17A</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOLECULAR FORMULA</td>
<td>C4H6AqBIn+</td>
</tr>
<tr>
<td>MOLECULAR WEIGHT</td>
<td>283.88g/mol</td>
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**SOLUBILITY**

- [ ] Sensitive to Air/Moisture/Light: Yes
- [x] No

**SERVICE REQUIRED:**

- [ ] Low Resolution ESI
- [ ] Low Resolution CI
- [ ] FAB
- [ ] GC-MS
- [ ] ESI

**FOR ACCURATE MASS SEE ME PERSONALLY AND PROVIDE LOW RESOLUTION SPECTRA.**

**HAVE THE FOLLOWING ANALYSES BEEN RUN?**

- [✓] NMR
- X-RAY
- IR
- [ ] MICRO ANALYSIS
- [ ] GC

**FOR LAB USE ONLY:**

- [ ] INSTRUMENT USED AUTOSPEC
- [ ] MS80
- [ ] MD-800

- [ ] EI
- [ ] CI
- [ ] FAB
- [ ] MATRIX (3-NBA OR GLYCEROL)

**MASS RANGE**

- [ ] CALIBRANT PFK/MOD/ULTRA
- [ ] RESOLUTION

**COMMENTS:**

HRMS please if the low res. is okay, thank you