

## Quantitation Report (Qedit)

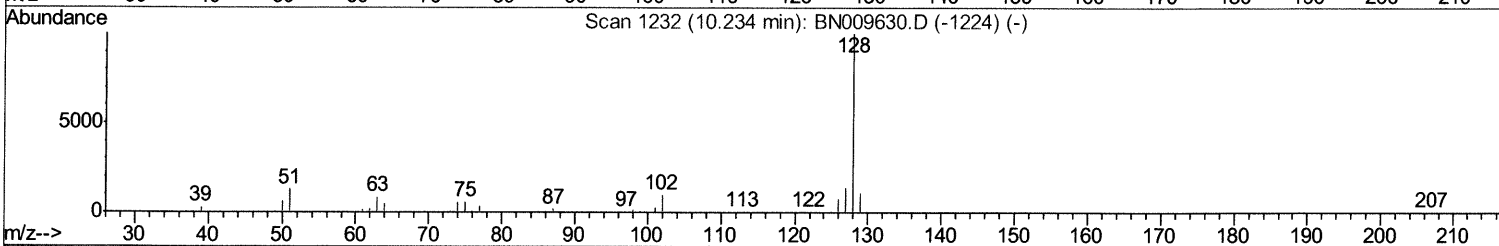
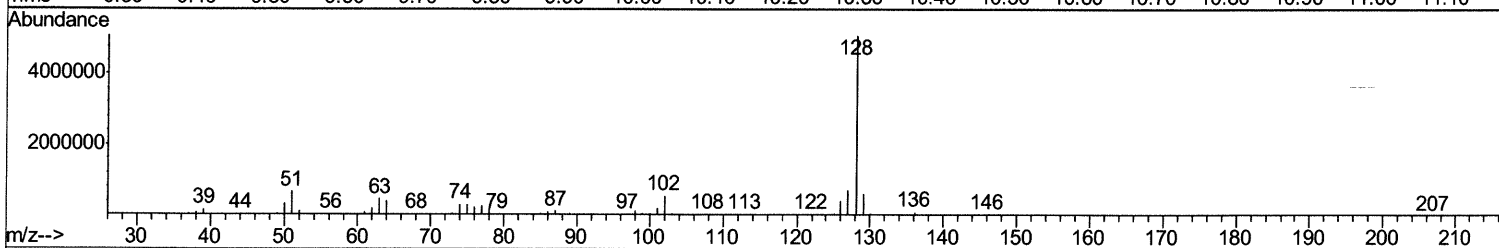
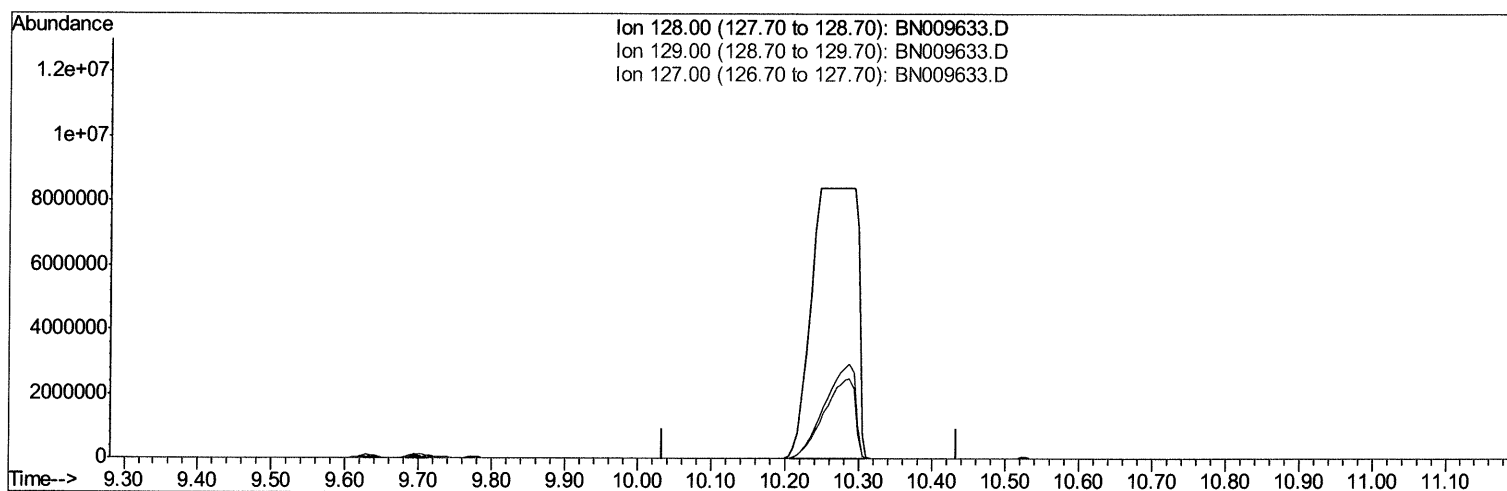
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN020620\  
Data File : BN009633.D  
Acq On : 07 Feb 2020 05:59  
Operator : CG/JU  
Sample : L1324-05 10X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAT62

Manual Integrations  
APPROVED

mohammad  
2/10/2020 8:20:35 AM

Quant Time: Feb 07 11:15:58 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 11:12:58 2020  
Response via : Initial Calibration



TIC: BN009633.D

(28) Naphthalene

10.234min (-10.234) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 128.00 | 100   | 0.00  |
| 129.00 | 10.90 | 0.00# |
| 127.00 | 13.40 | 0.00# |
| 0.00   | 0.00  | 0.00  |

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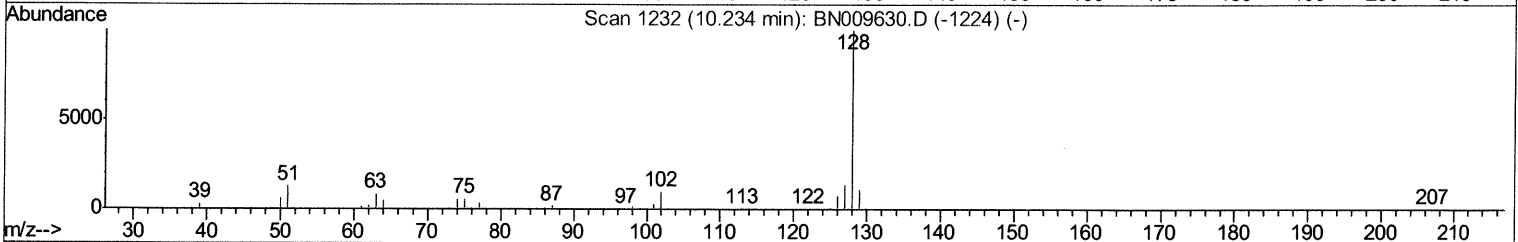
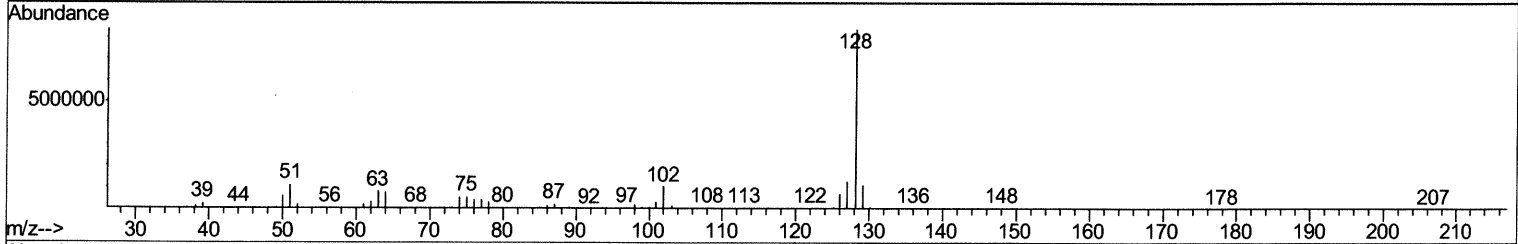
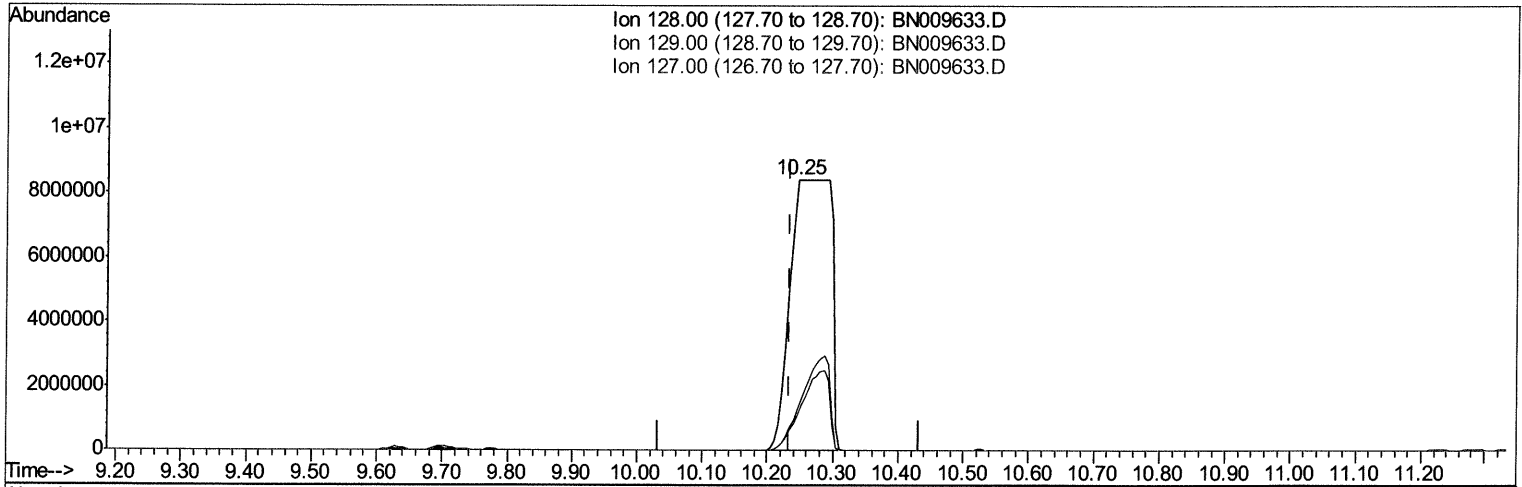
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN020620\  
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TIC: BN009633.D

(28) Naphthalene

10.246min (+0.012) 777.08ng/ul m *JU 02/13/20*

response 35962307

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 128.00 | 100   | 100    |
| 129.00 | 10.90 | 13.31# |
| 127.00 | 13.40 | 15.31  |
| 0.00   | 0.00  | 0.00   |

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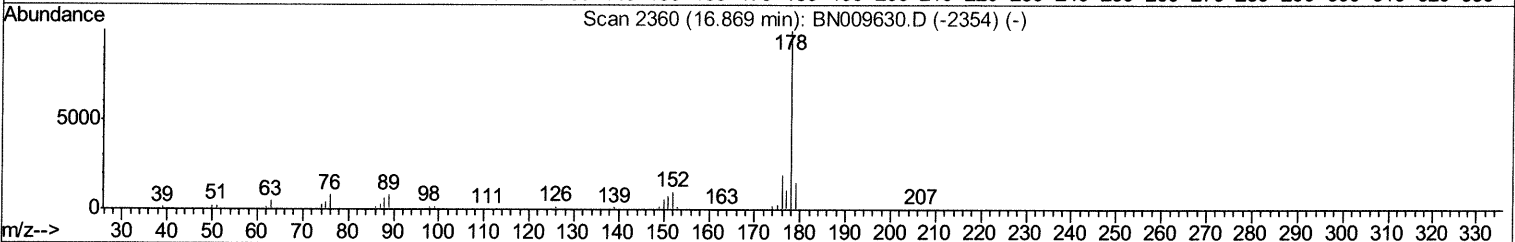
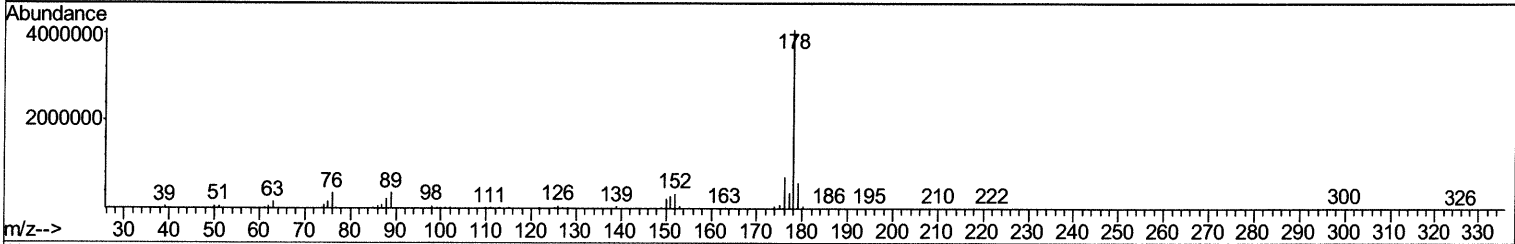
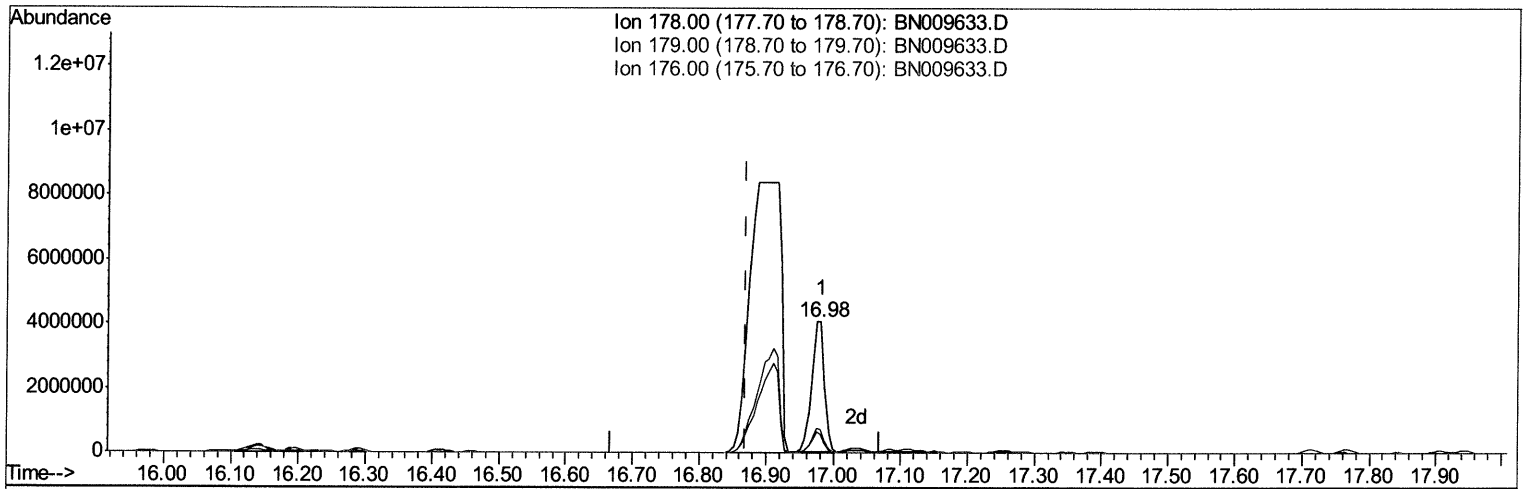
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(69) Phenanthrene

16.980min (+0.112) 95.90ng/ul

response 5391278

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 100   |
| 179.00 | 15.20 | 14.47 |
| 176.00 | 18.50 | 17.74 |
| 0.00   | 0.00  | 0.00  |

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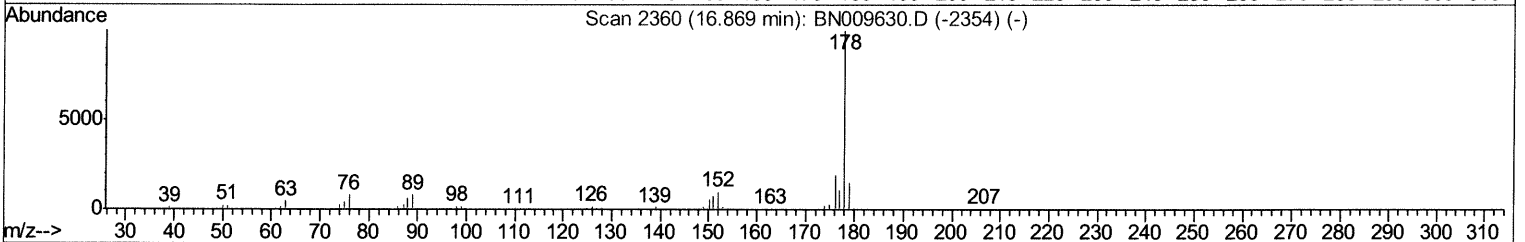
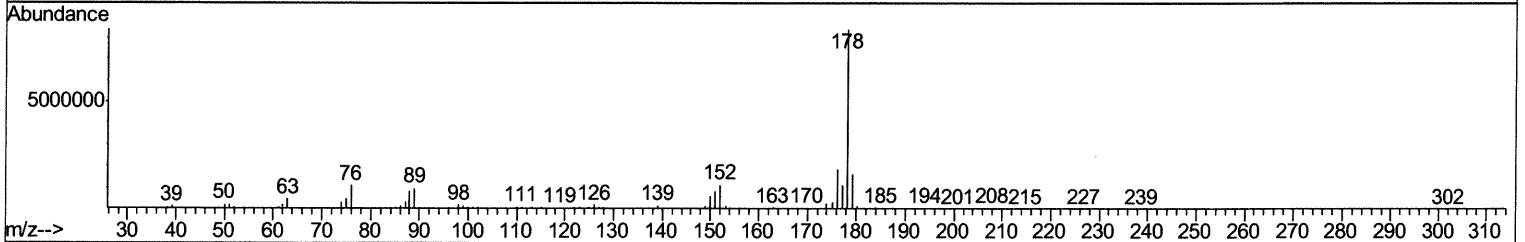
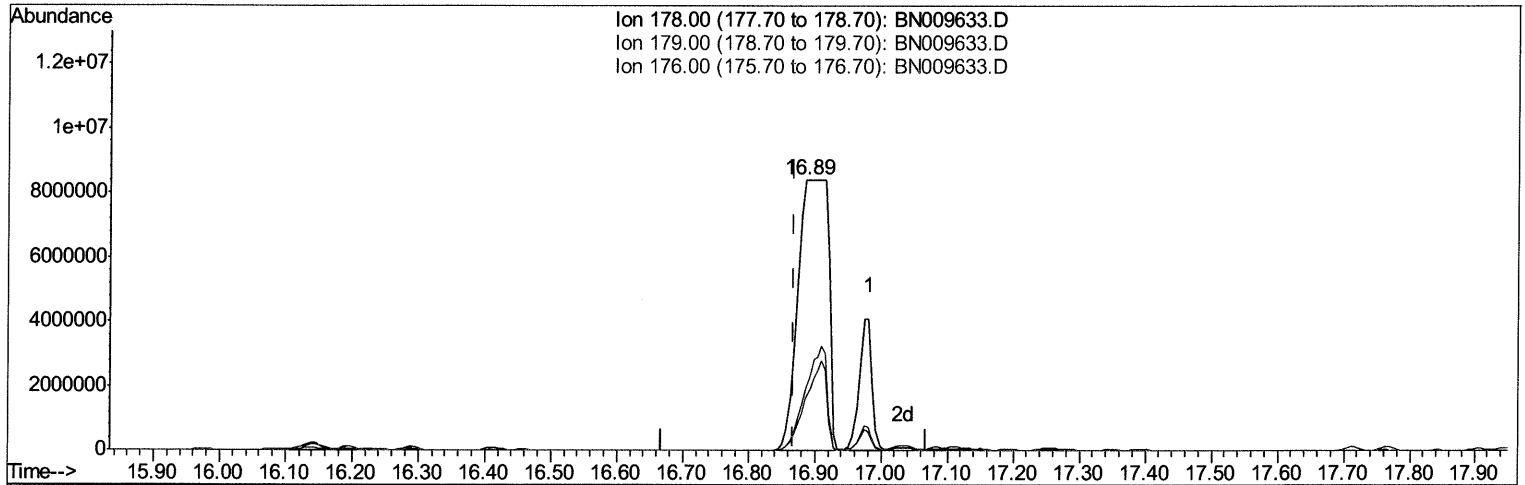
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(69) Phenanthrene

16.886min (+0.018) 473.74ng/ul m *Tu 02/13/20*

response 26631469

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 15.20 | 19.14# |
| 176.00 | 18.50 | 22.29# |
| 0.00   | 0.00  | 0.00   |

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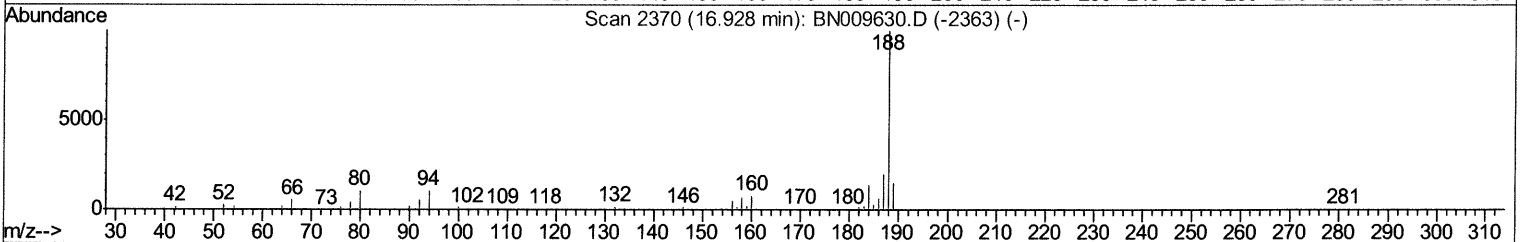
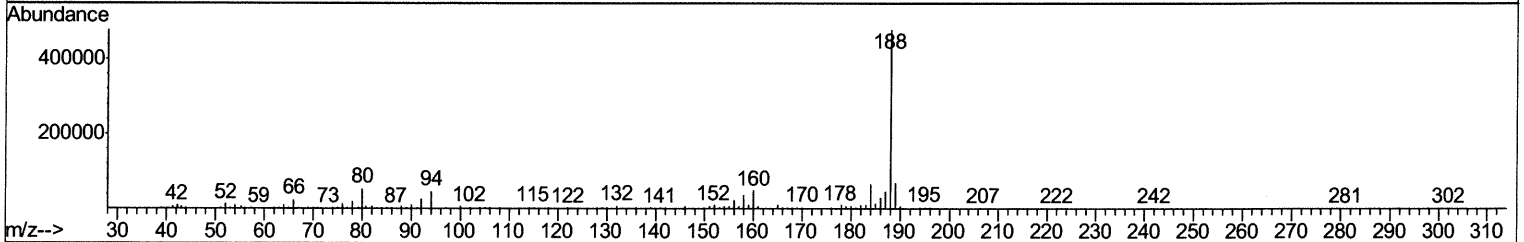
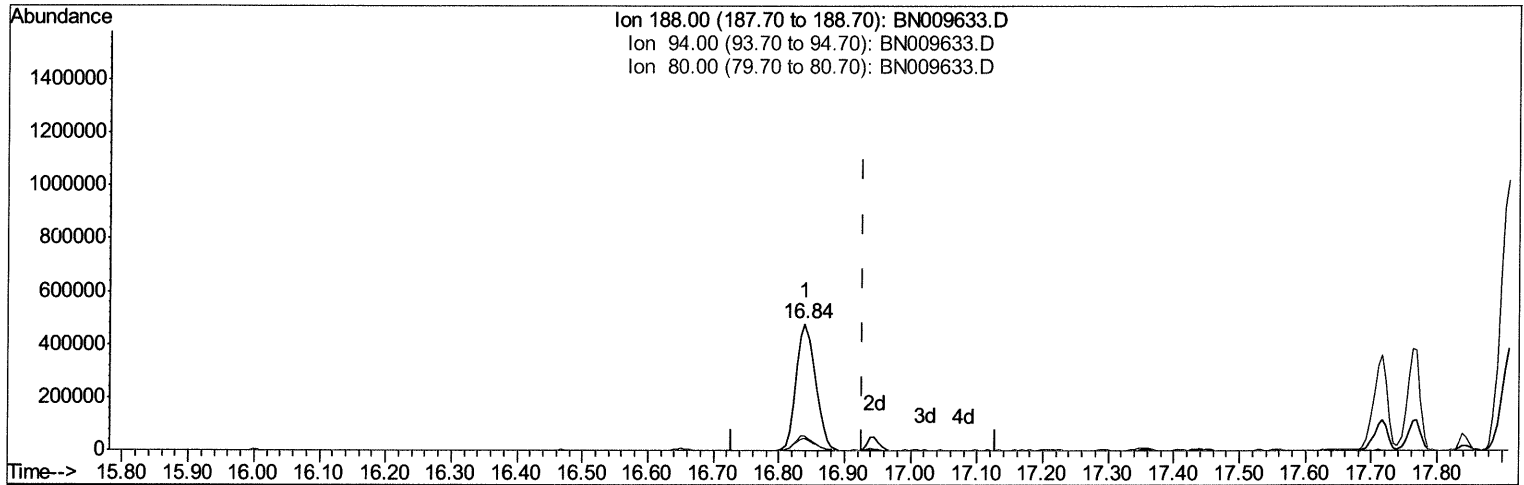
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(70) Anthracene-d10 (S)

16.839min (-0.088) 22.01ng/ul

response 985736

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 10.60 | 9.67  |
| 80.00  | 11.10 | 11.29 |
| 0.00   | 0.00  | 0.00  |

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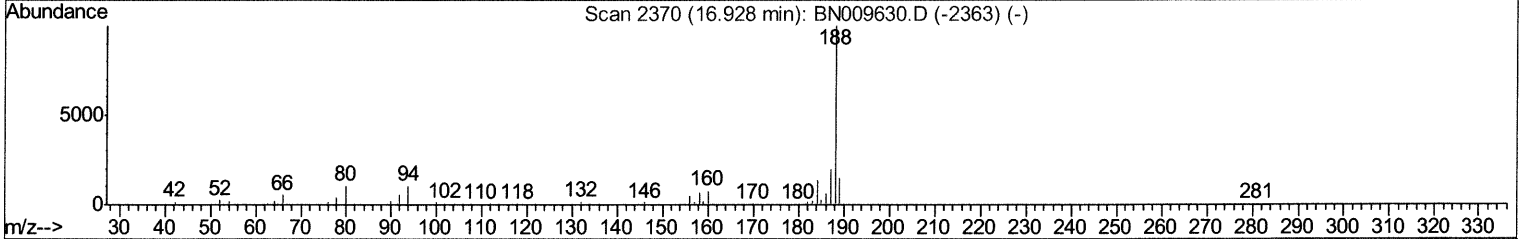
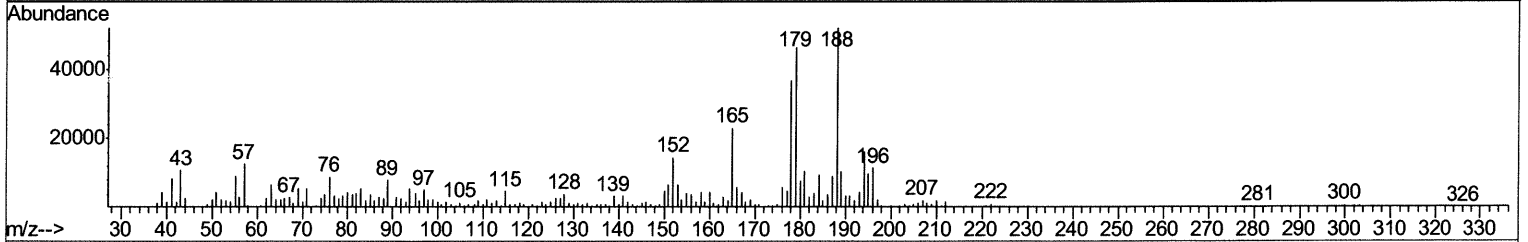
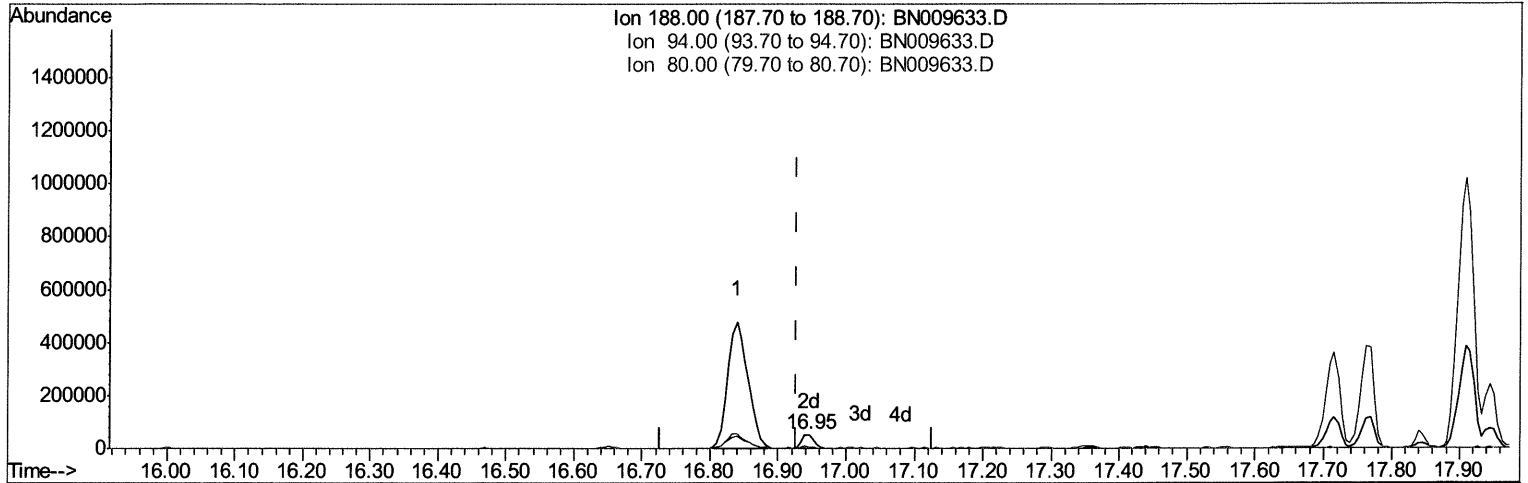
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(70) Anthracene-d10 (S)

16.945min (+0.018) 1.43ng/ul m JU 02/13/20

response 64274

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 10.60 | 11.01 |
| 80.00  | 11.10 | 8.70# |
| 0.00   | 0.00  | 0.00  |

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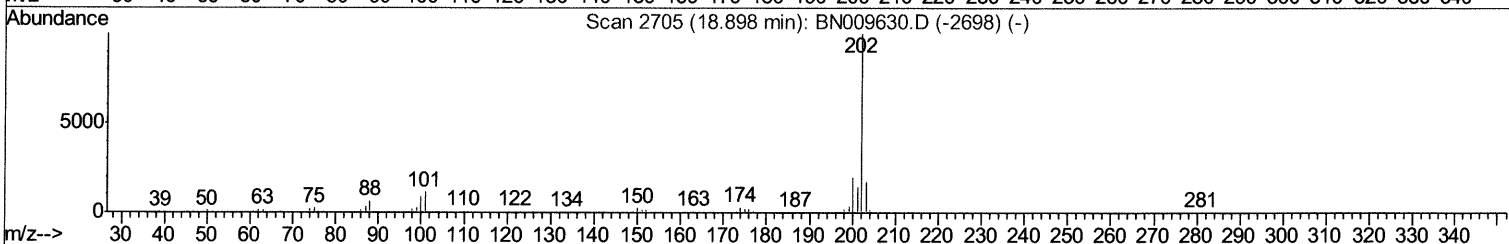
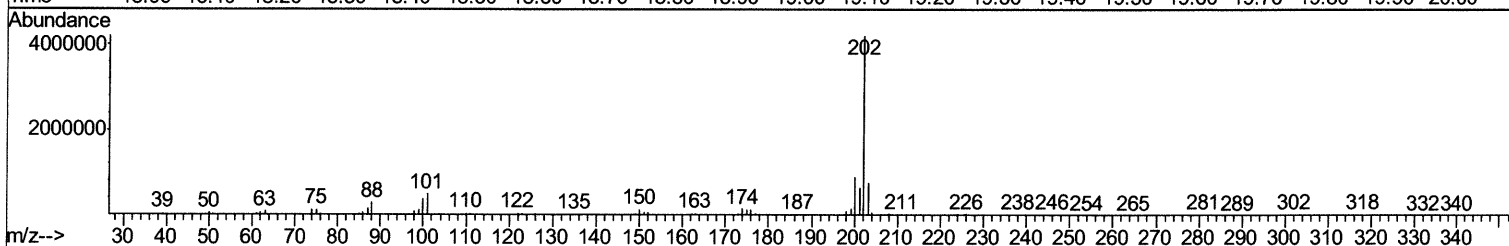
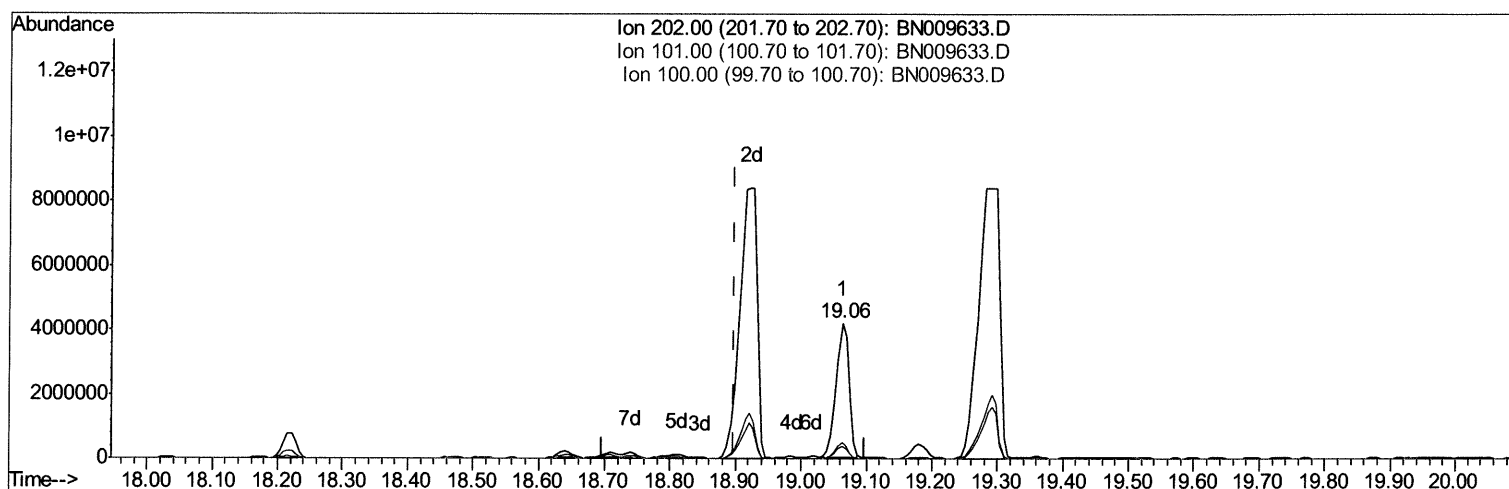
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(76) Fluoranthene (C)

19.063min (+0.165) 86.41ng/ul

response 5543988

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 11.50 | 11.35 |
| 100.00 | 8.60  | 8.87  |
| 0.00   | 0.00  | 0.00  |

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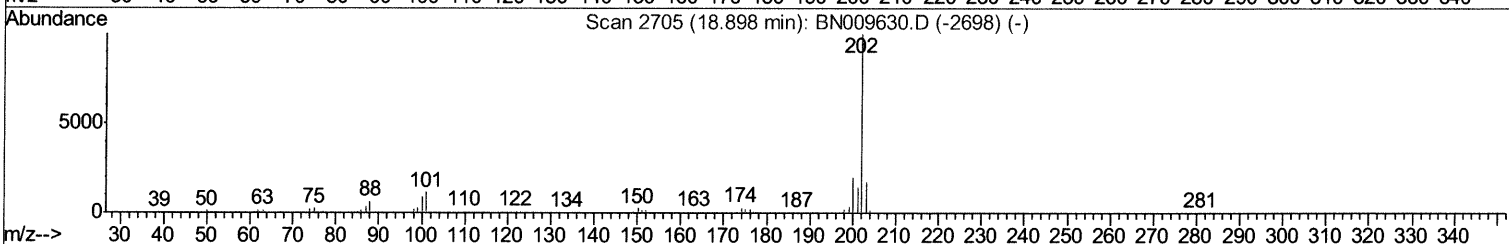
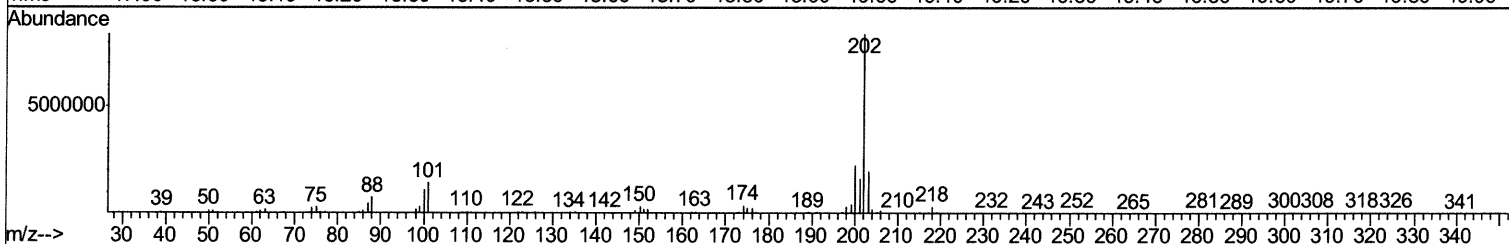
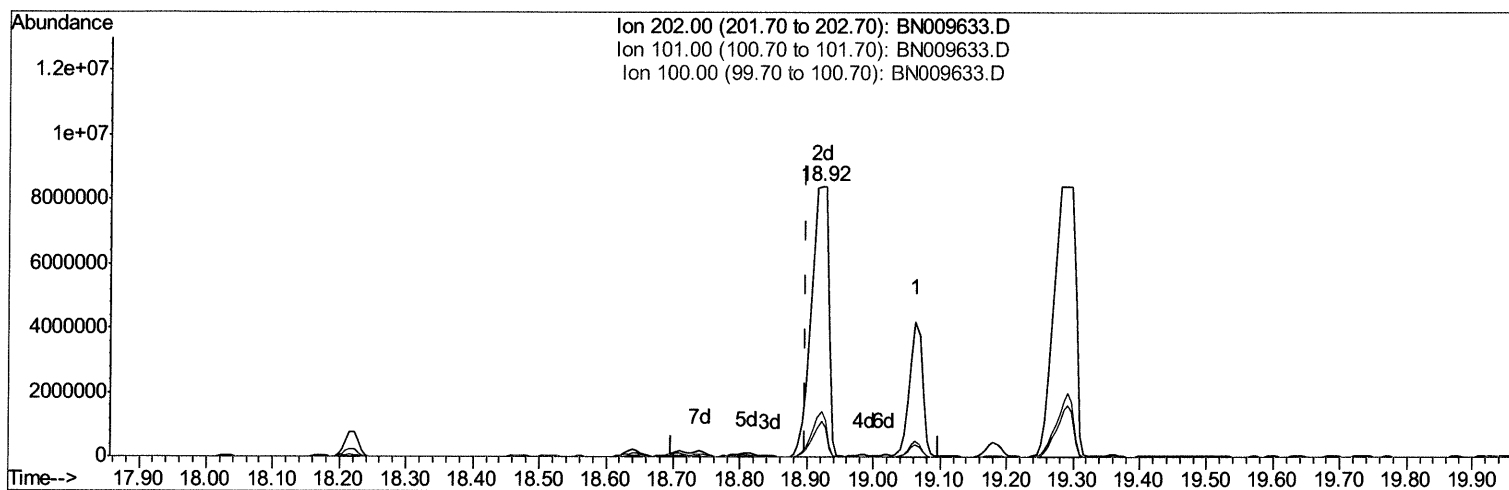
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Manual Integrations  
 APPROVED

mohammad  
 2/10/2020 8:20:35 AM

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TIC: BN009633.D

(76) Fluoranthene (C)

18.922min (+0.023) 240.44ng/ul m JU 02/10/20

response 15426812

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 11.50 | 16.97# |
| 100.00 | 8.60  | 13.03# |
| 0.00   | 0.00  | 0.00   |

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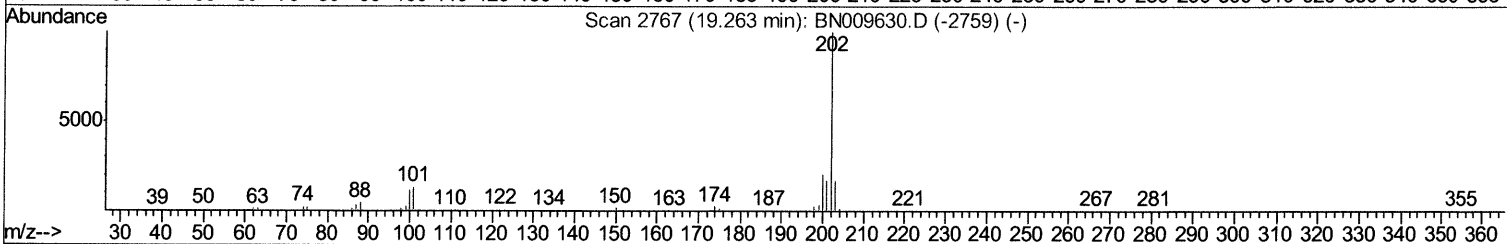
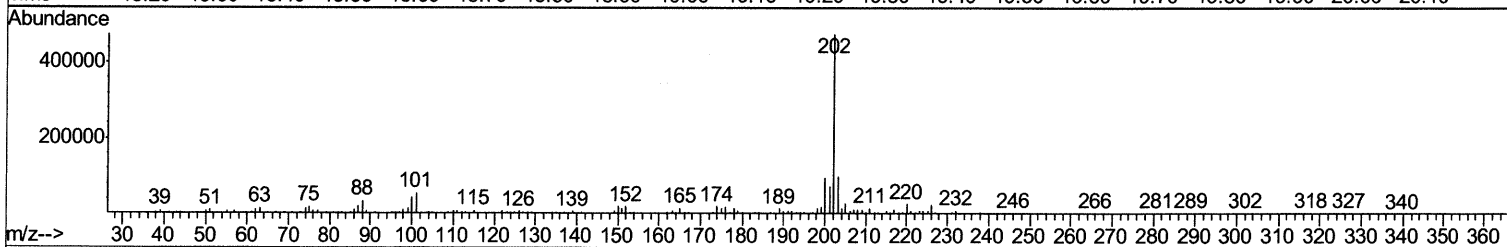
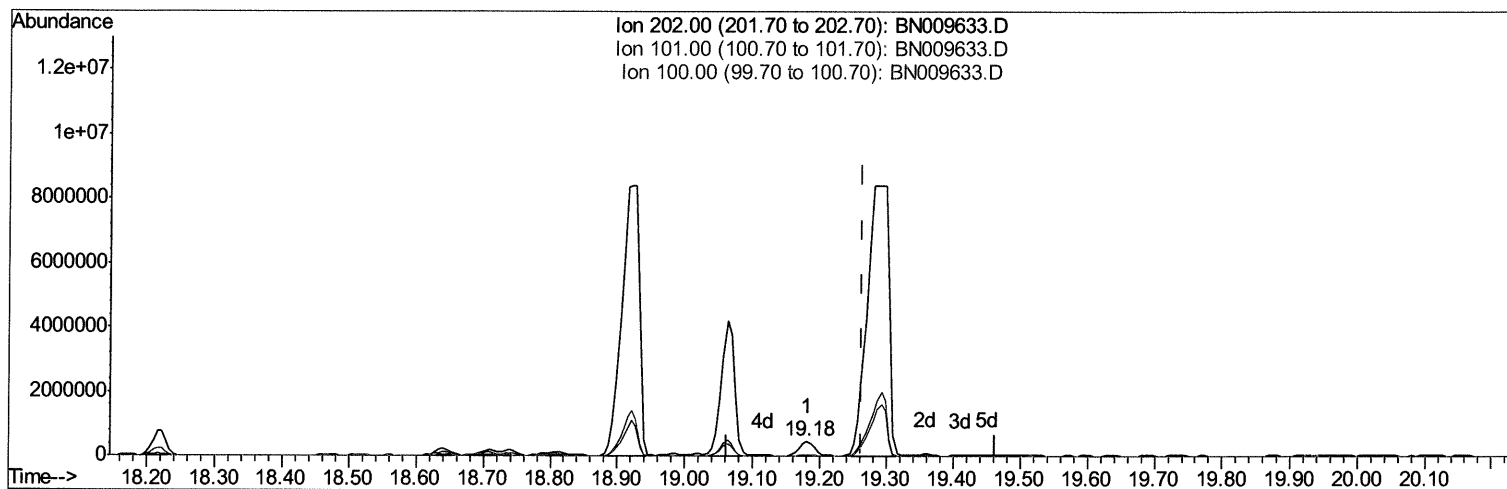
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(79) Pyrene

19.180min (-0.082) 11.25ng/ul

response 700148

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 12.90 | 11.29 |
| 100.00 | 10.50 | 8.85  |
| 0.00   | 0.00  | 0.00  |

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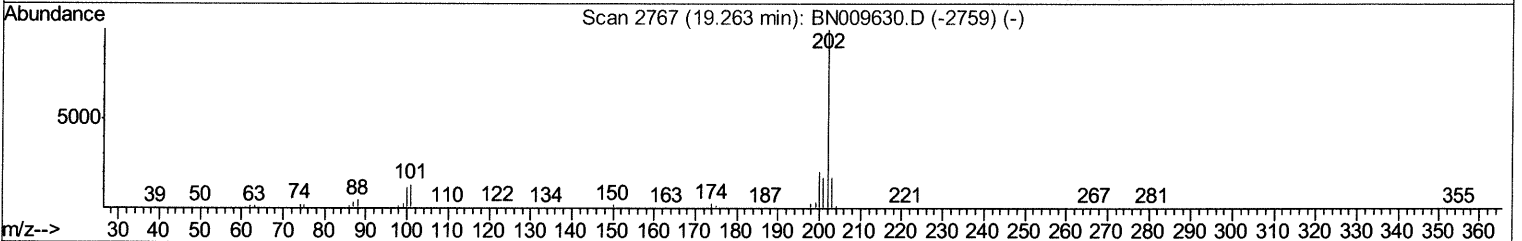
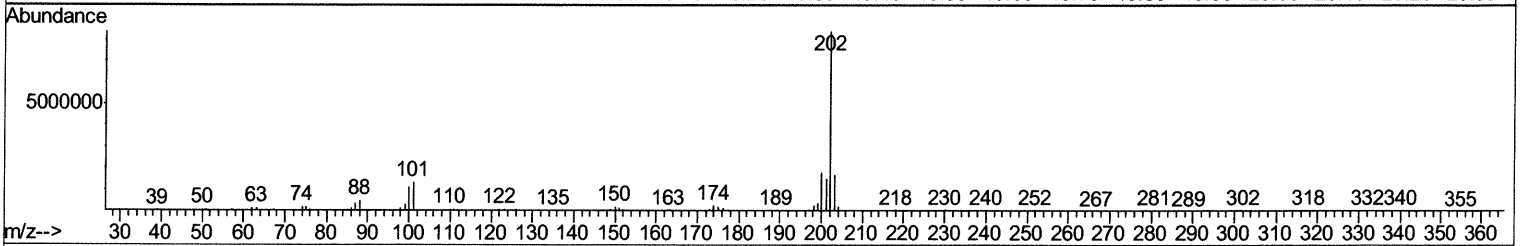
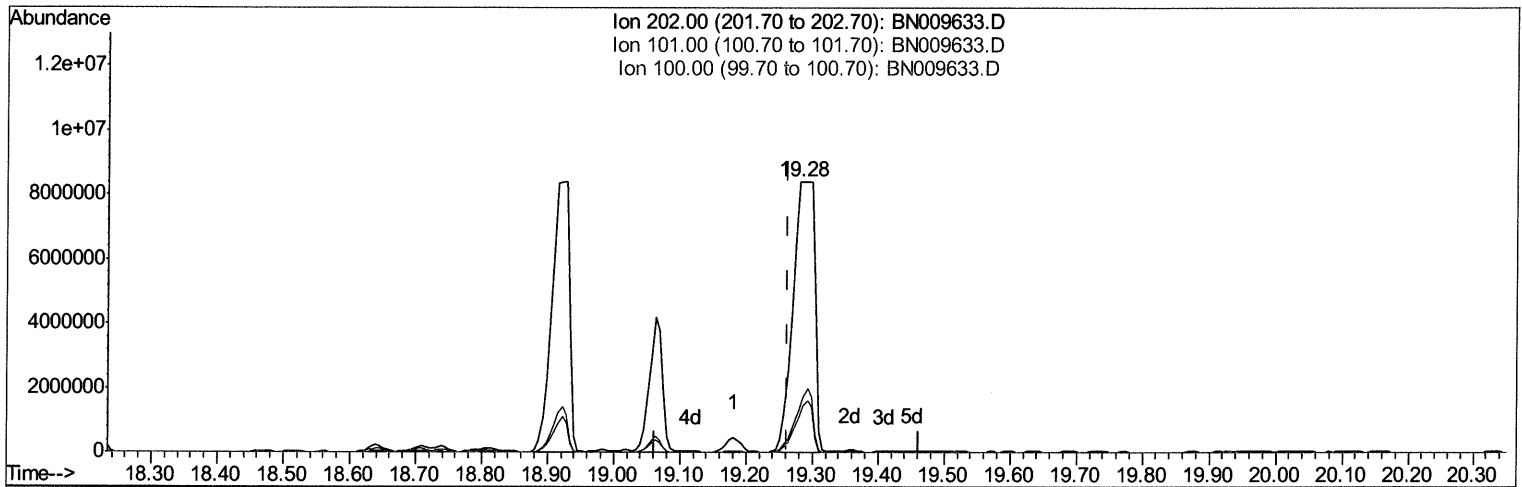
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(79) Pyrene

19.280min (+0.018) 307.07ng/ul m J4 02/13/20

response 19118037

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 12.90 | 16.08# |
| 100.00 | 10.50 | 13.26# |
| 0.00   | 0.00  | 0.00   |

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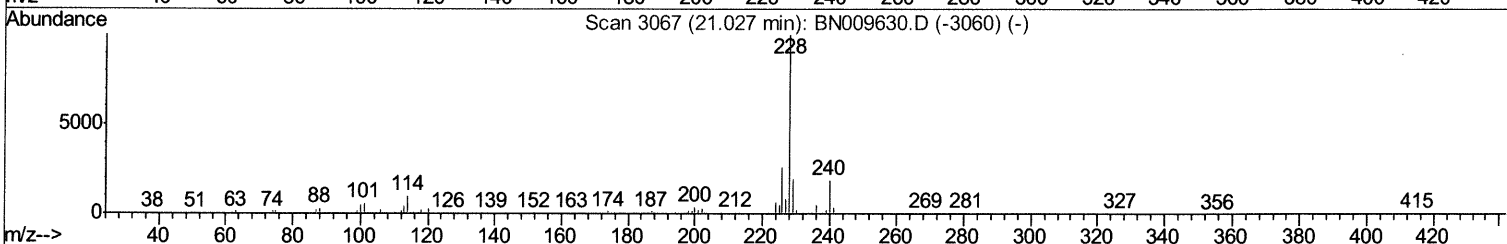
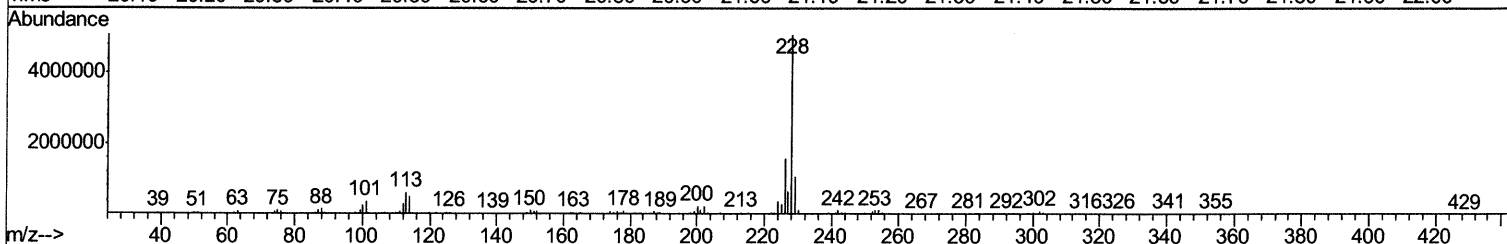
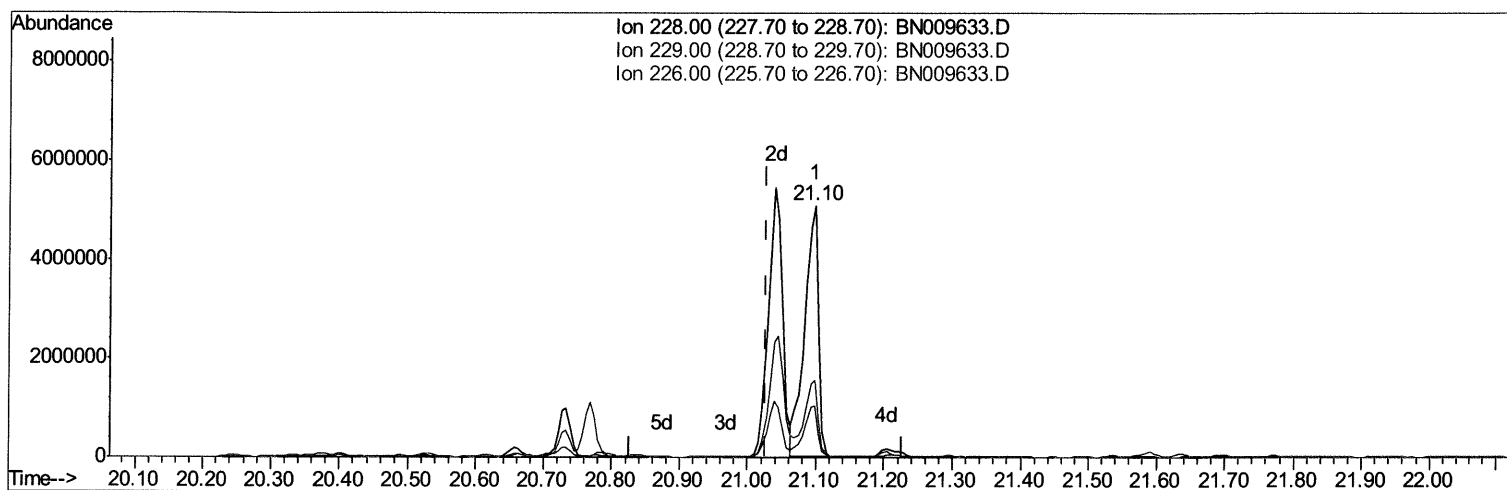
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(82) Benzo(a)anthracene

21.098min (+0.071) 121.75ng/ul

response 7169211

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 228.00 | 100   | 100   |
| 229.00 | 18.70 | 20.68 |
| 226.00 | 26.10 | 30.82 |
| 0.00   | 0.00  | 0.00  |

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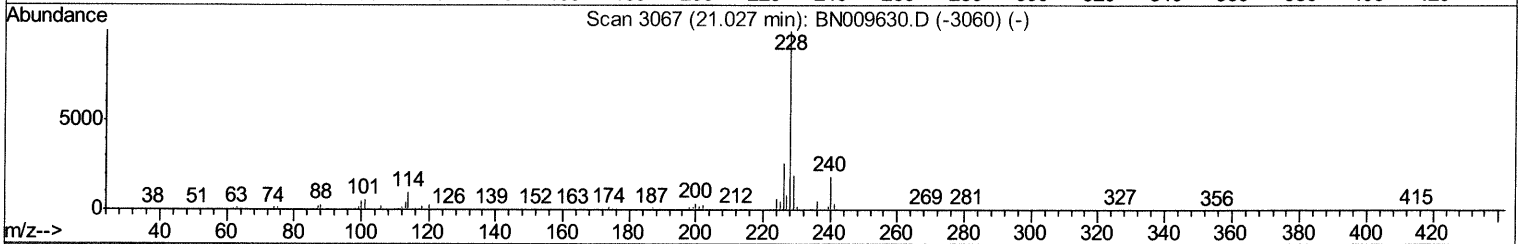
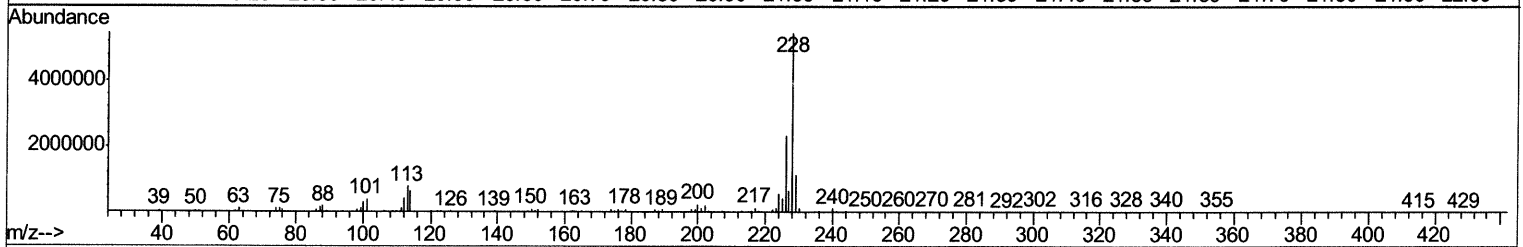
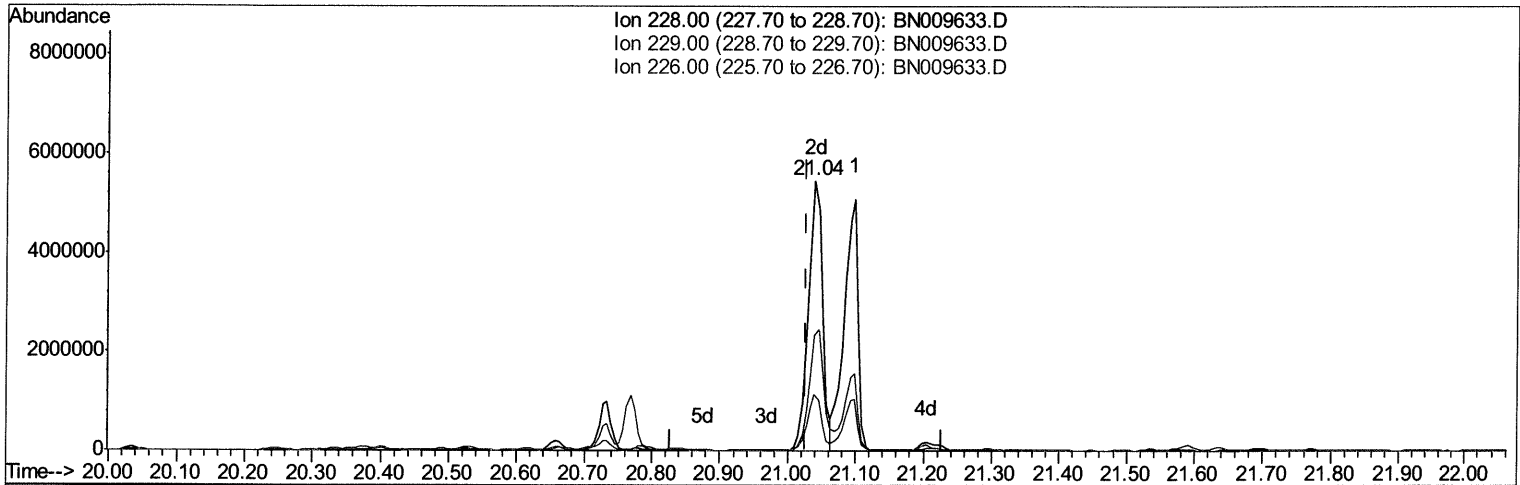
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(82) Benzo(a)anthracene

21.039min (+0.012) 134.44ng/ul m JU02/13/20

response 7916863

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 228.00 | 100   | 100    |
| 229.00 | 18.70 | 20.80  |
| 226.00 | 26.10 | 42.61# |
| 0.00   | 0.00  | 0.00   |

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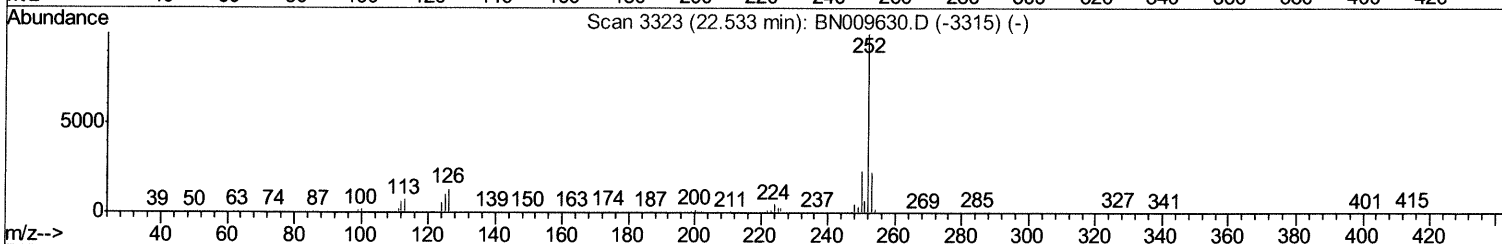
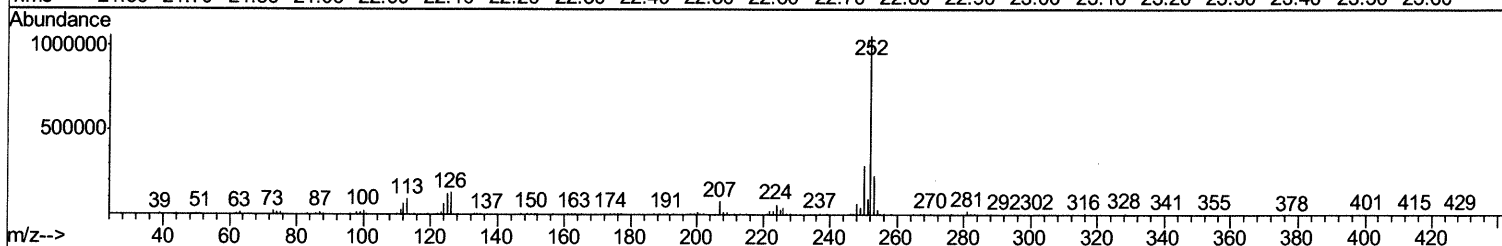
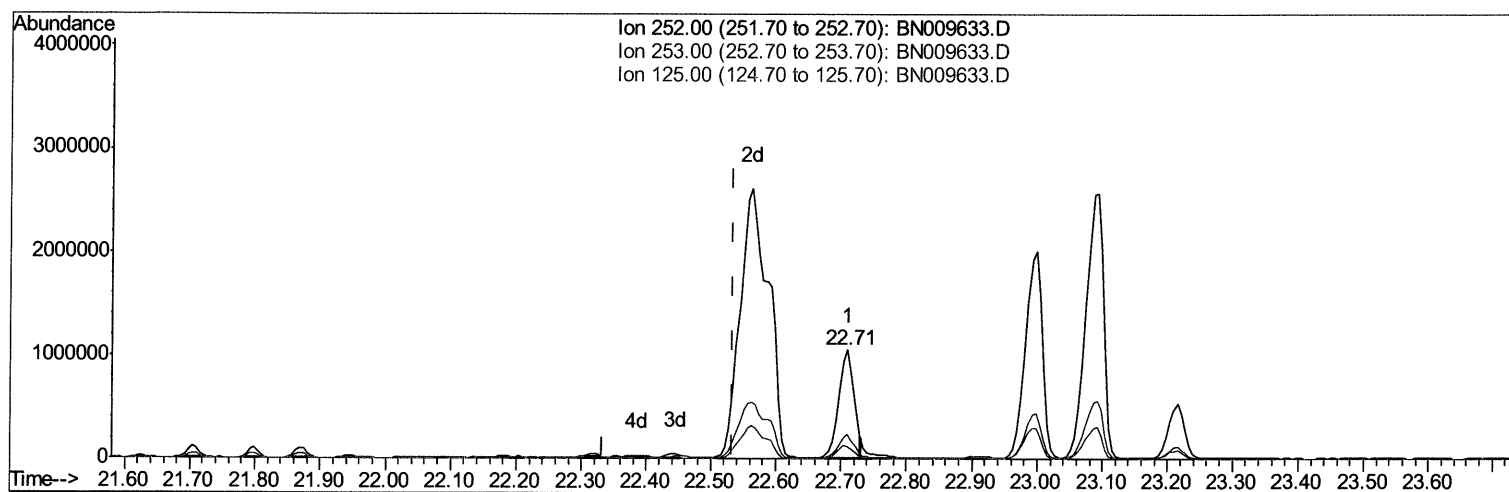
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2/10/2020 8:20:35 AM

Quant Time: Feb 07 11:15:58 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 11:12:58 2020  
Response via : Initial Calibration



TIC: BN009633.D

(87) Benzo(b)fluoranthene

22.710min (+0.176) 27.71ng/ul

response 1681361

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.30 | 22.13 |
| 125.00 | 10.20 | 11.68 |
| 0.00   | 0.00  | 0.00  |

## Quantitation Report (Qedit)

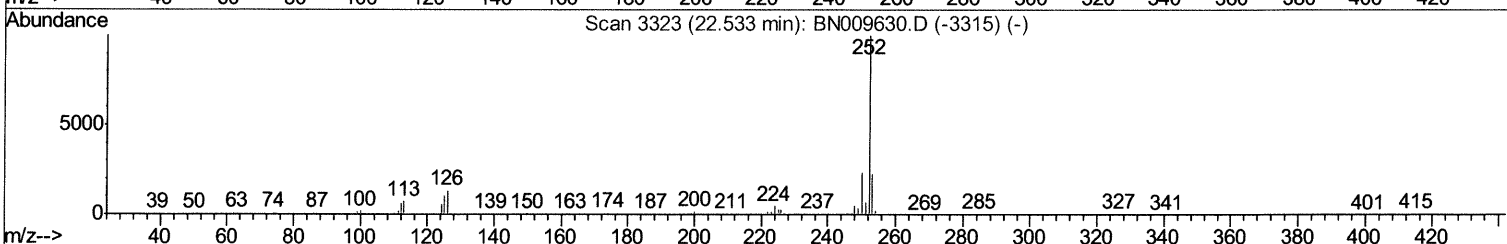
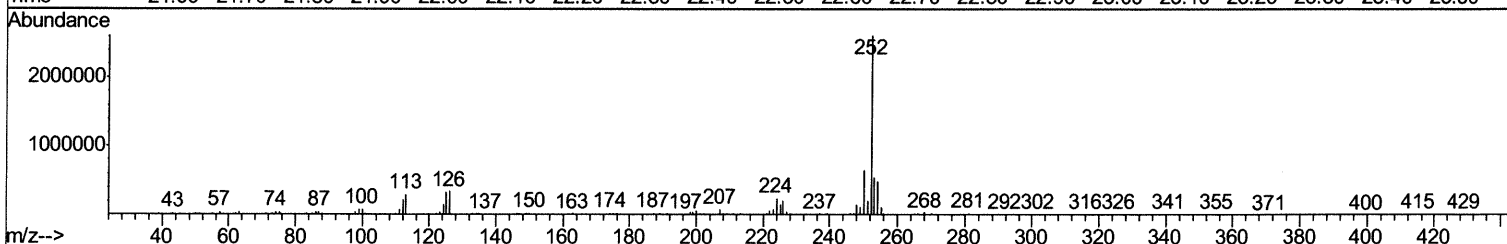
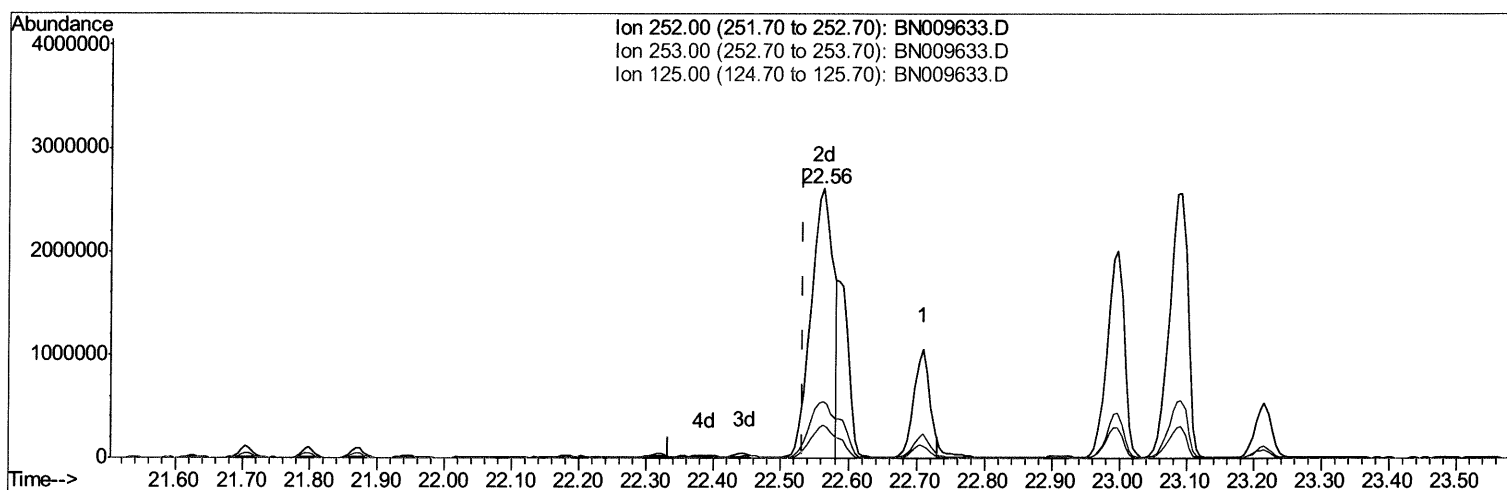
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN020620\  
Data File : BN009633.D  
Acq On : 07 Feb 2020 05:59  
Operator : CG/JU  
Sample : L1324-05 10X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAT62

Manual Integrations  
APPROVED

mohammad  
2/10/2020 8:20:35 AM

Quant Time: Feb 07 11:15:58 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 11:12:58 2020  
Response via : Initial Calibration



TIC: BN009633.D

(87) Benzo(b)fluoranthene

22.563min (+0.029) 98.39ng/ul m *JU 02/13/20*

response 5968824

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 21.30 | 20.89  |
| 125.00 | 10.20 | 12.28# |
| 0.00   | 0.00  | 0.00   |

## Quantitation Report (Qedit)

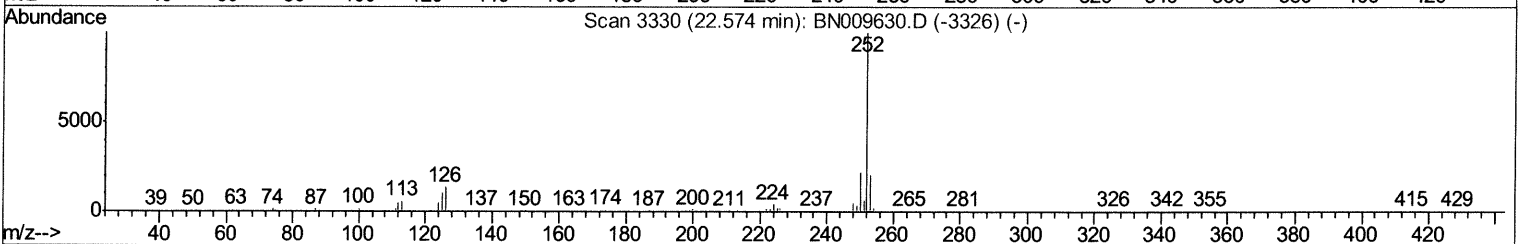
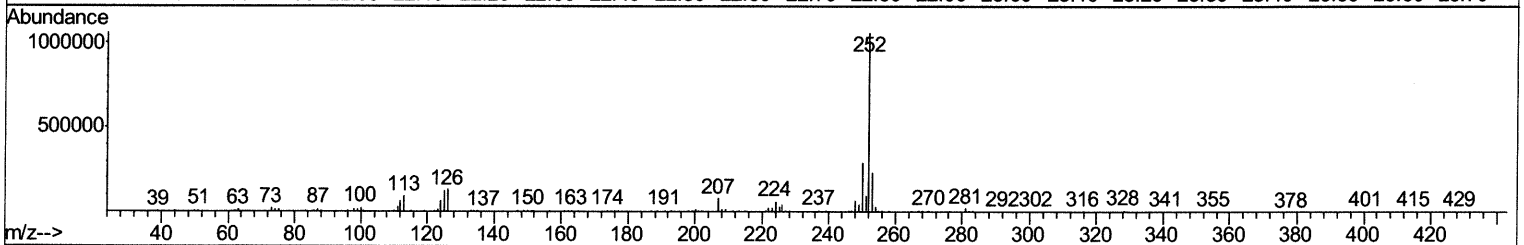
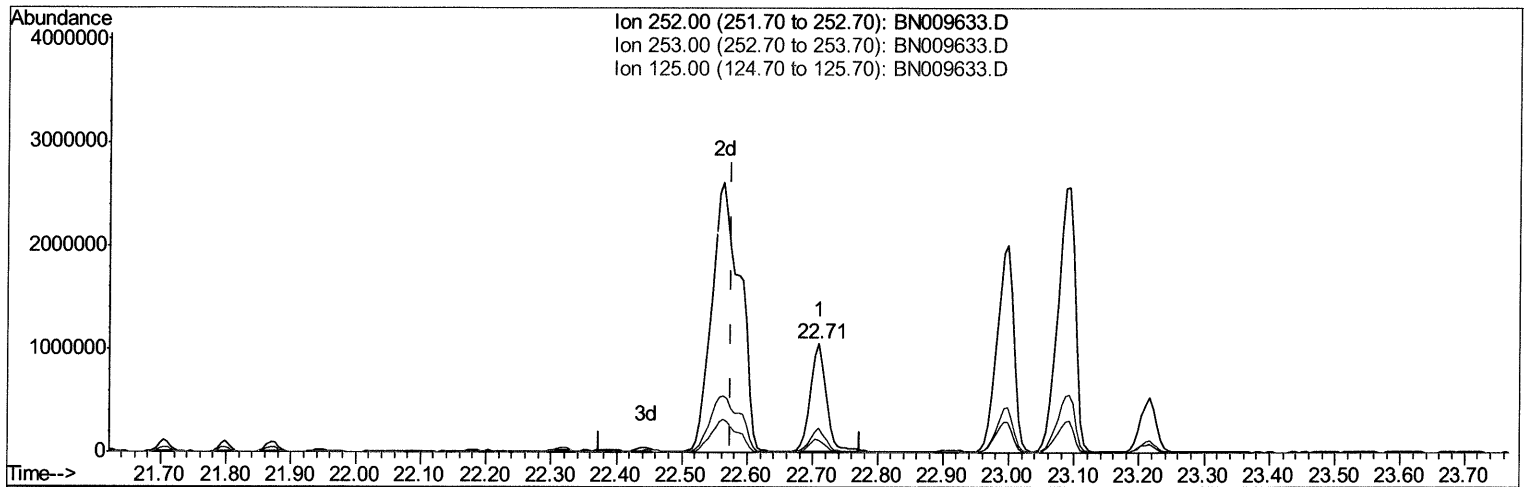
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN020620\  
Data File : BN009633.D  
Acq On : 07 Feb 2020 05:59  
Operator : CG/JU  
Sample : L1324-05 10X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAT62

Manual Integrations  
APPROVED

mohammad  
2/10/2020 8:20:35 AM

Quant Time: Feb 07 11:15:58 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 11:12:58 2020  
Response via : Initial Calibration



TIC: BN009633.D

(88) Benzo(k)fluoranthene

22.710min (+0.135) 29.80ng/ul

response 1780404

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.20 | 22.13 |
| 125.00 | 10.00 | 11.68 |
| 0.00   | 0.00  | 0.00  |

## Quantitation Report (Qedit)

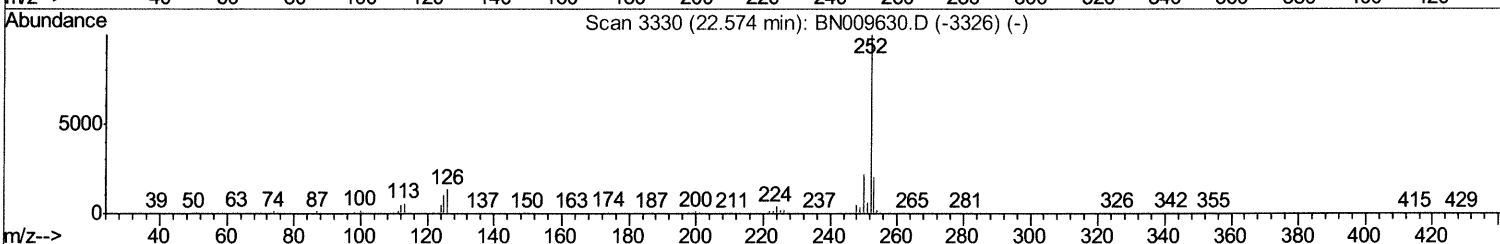
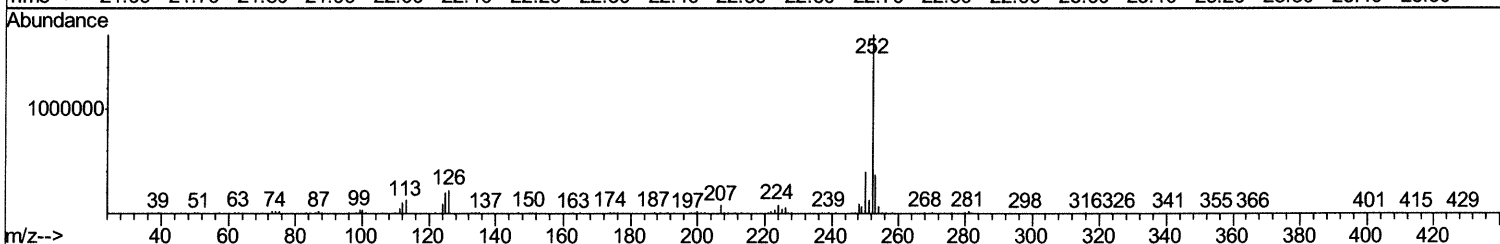
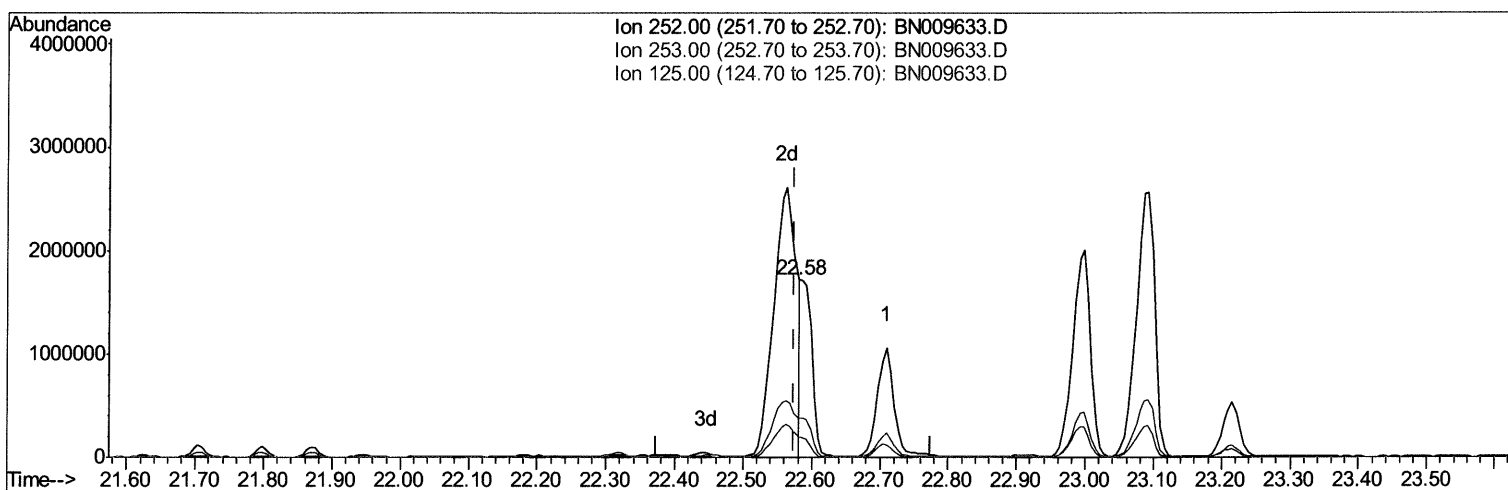
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN020620\  
Data File : BN009633.D  
Acq On : 07 Feb 2020 05:59  
Operator : CG/JU  
Sample : L1324-05 10X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAT62

Manual Integrations  
APPROVED

mohammad  
2/10/2020 8:20:35 AM

Quant Time: Feb 07 11:15:58 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 11:12:58 2020  
Response via : Initial Calibration



TIC: BN009633.D

(88) Benzo(k)fluoranthene

22.580min (+0.006) 32.19ng/ul m JU 02/13/20

response 1923373

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.20 | 22.16 |
| 125.00 | 10.00 | 11.92 |
| 0.00   | 0.00  | 0.00  |

Quantitation Report (LSC Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN020620\  
 Data File : BN009633.D  
 Acq On : 07 Feb 2020 05:59  
 Operator : CG/JU  
 Sample : L1324-05 10X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAT62

Manual Integrations  
 APPROVED

mohammad  
 2/10/2020 8:20:35 AM

Quant Time: Feb 07 14:44:34 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Feb 07 11:12:58 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.43  | 152  | 205739   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.19 | 136  | 853392   | 20.00 | ng/ul | 0.01     |
| 35) Acenaphthene-d10      | 14.07 | 164  | 522184   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.84 | 188  | 985736   | 20.00 | ng/ul | 0.01     |
| 77) Chrysene-d12          | 21.06 | 240  | 852864   | 20.00 | ng/ul | 0.02     |
| 85) Perylene-d12          | 23.17 | 264  | 969649   | 20.00 | ng/ul | 0.02     |

System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.10  | 96  | 311    | 0.06 | ng/uL | 0.02 |
| 5) Phenol-d5                   | 6.64  | 99  | 17748  | 0.99 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.80  | 67  | 11884  | 0.99 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.98  | 132 | 13459  | 1.02 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.16  | 113 | 14779  | 1.03 | ng/ul | 0.01 |
| 19) Nitrobenzene-d5            | 8.59  | 128 | 7032   | 1.11 | ng/ul | 0.01 |
| 22) 2-Nitrophenol-d4           | 9.30  | 143 | 7058   | 1.00 | ng/ul | 0.01 |
| 26) 2,4-Dichlorophenol-d3      | 9.83  | 165 | 14551  | 1.10 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.37 | 131 | 31090  | 2.18 | ng/ul | 0.04 |
| 43) Dimethylphthalate-d6       | 13.50 | 166 | 64332  | 1.69 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.77 | 160 | 54518  | 1.18 | ng/ul | 0.01 |
| 51) 4-Nitrophenol-d4           | 14.30 | 143 | 3421   | 0.48 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.08 | 176 | 42952  | 1.28 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.26 | 200 | 3618m  | 0.59 | ng/ul | 0.04 |
| 70) Anthracene-d10             | 16.95 | 188 | 64274m | 1.43 | ng/ul | 0.02 |
| 78) Pyrene-d10                 | 19.25 | 212 | 64957  | 1.45 | ng/ul | 0.01 |
| 89) Benzo(a)pyrene-d12         | 23.04 | 264 | 62831  | 1.32 | ng/ul | 0.02 |

Target Compounds

|                            |       |     |           |         |        | Ovalue |
|----------------------------|-------|-----|-----------|---------|--------|--------|
| 14) Acetophenone           | 8.26  | 105 | 55959     | 2.447   | ng/ul  | 96     |
| 28) Naphthalene            | 10.25 | 128 | 35962307m | 777.081 | ng/ul  |        |
| 34) 2-Methylnaphthalene    | 11.88 | 142 | 20576523  | 635.344 | ng/ul  | 99     |
| 40) 1,1'-Biphenyl          | 12.90 | 154 | 4696352   | 115.512 | ng/ul  | 99     |
| 47) Acenaphthylene         | 13.81 | 152 | 17053682  | 338.333 | ng/ul# | 86     |
| 49) Acenaphthene           | 14.14 | 153 | 1182858   | 34.520  | ng/ul  | 99     |
| 53) Dibenzofuran           | 14.48 | 168 | 1570450   | 32.912  | ng/ul  | 95     |
| 58) Fluorene               | 15.15 | 166 | 8074280   | 202.474 | ng/ul  | 98     |
| 69) Phenanthrene           | 16.89 | 178 | 26631469m | 473.739 | ng/ul  |        |
| 71) Anthracene             | 16.98 | 178 | 5385462   | 94.416  | ng/ul  | 99     |
| 74) Carbazole              | 17.25 | 167 | 166593    | 3.354   | ng/ul  | 94     |
| 76) Fluoranthene           | 18.92 | 202 | 15426812m | 240.443 | ng/ul  |        |
| 79) Pyrene                 | 19.28 | 202 | 19118037m | 307.072 | ng/ul  |        |
| 82) Benzo(a)anthracene     | 21.04 | 228 | 7916863m  | 134.445 | ng/ul  |        |
| 84) Chrysene               | 21.10 | 228 | 7171260   | 122.330 | ng/ul  | 98     |
| 87) Benzo(b)fluoranthene   | 22.56 | 252 | 5968824m  | 98.387  | ng/ul  |        |
| 88) Benzo(k)fluoranthene   | 22.58 | 252 | 1923373m  | 32.193  | ng/ul  |        |
| 90) Benzo(a)pyrene         | 23.09 | 252 | 4840631   | 86.120  | ng/ul  | 96     |
| 91) Indeno(1,2,3-cd)pyrene | 25.24 | 276 | 2828028   | 42.319  | ng/ul  | 94     |
| 92) Dibenzo(a,h)anthracene | 25.24 | 278 | 912852    | 16.228  | ng/ul# | 91     |
| 93) Benzo(a,h,i)perylene   | 25.88 | 276 | 2878197   | 51.390  | ng/ul  | 92     |

34 02/13/20

(LSC Reviewed)

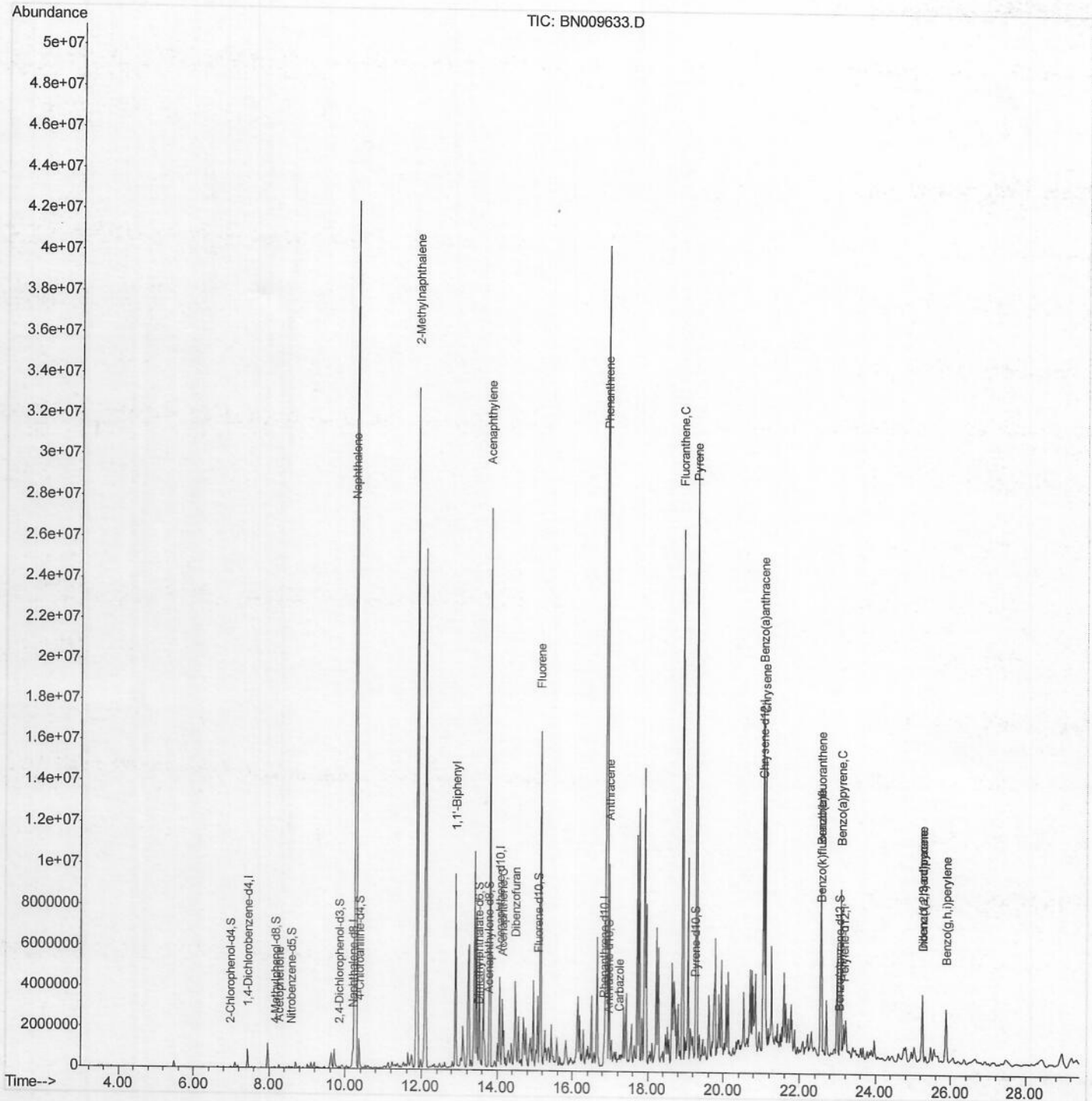
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\  
Data File : BN009633.D  
Acq On : 07 Feb 2020 05:59  
Operator : CG/JU  
Sample : L1324-05 10X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**  
BNA\_N  
**ClientSampleId :**  
GAT62

## Manual Integrations APPROVED

mohammad  
2/10/2020 8:20:35 AM

Quant Time: Feb 07 14:44:34 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 11:12:58 2020  
Response via : Initial Calibration



# Quantitation Report (Qedit)

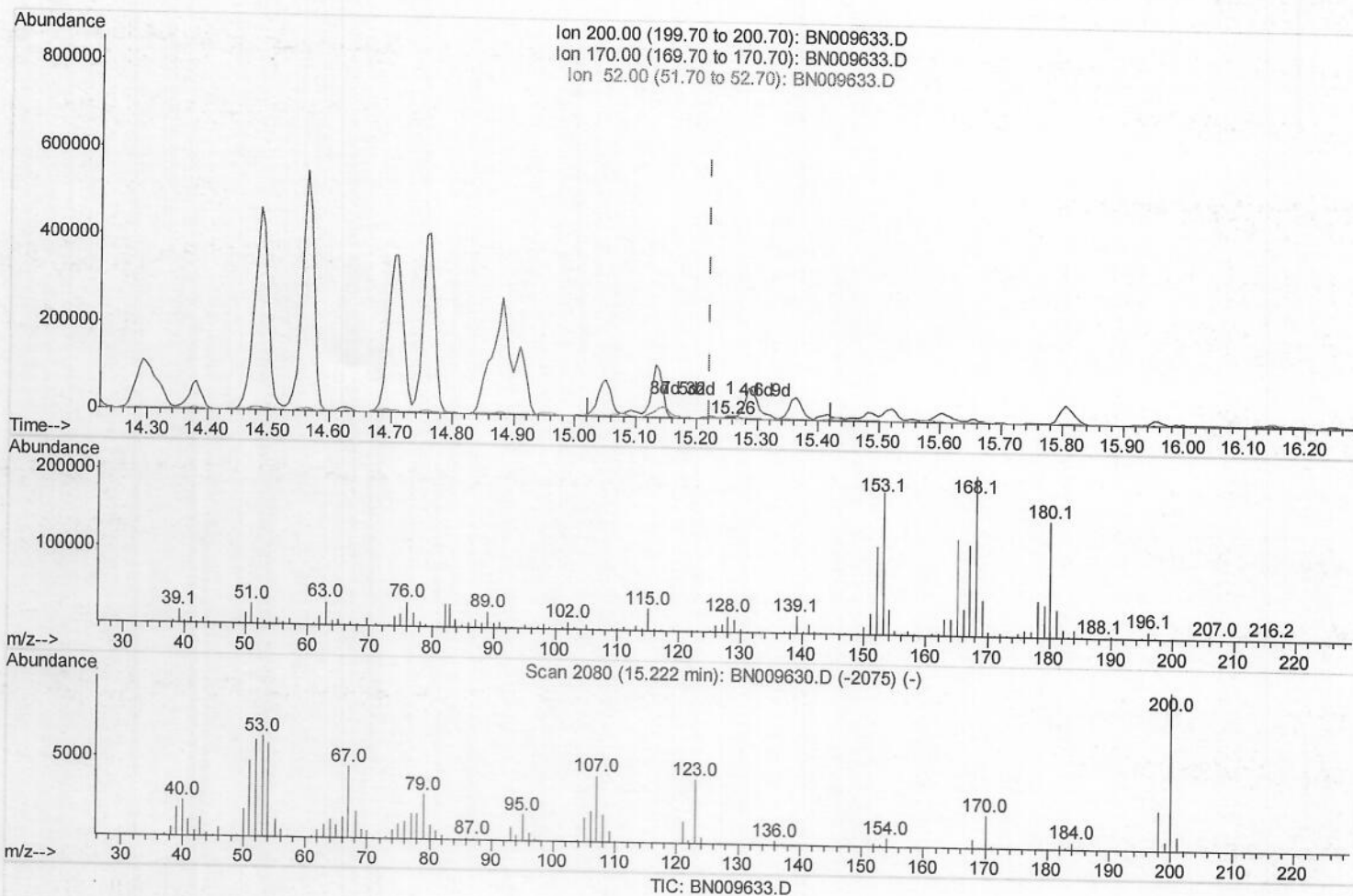
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\  
 Data File : BN009633.D  
 Acq On : 07 Feb 2020 05:59  
 Operator : CG/JU  
 Sample : L1324-05 10X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAT62

Manual Integrations  
 APPROVED

mohammad  
 2/10/2020 8:20:35 AM

Quant Time: Feb 18 09:01:25 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Feb 12 16:10:53 2020  
 Response via : Initial Calibration



(62) 4,6-Dinitro-2-methylphenol-d2 (S)

15.257min (+0.035) 0.59ng/ul

response 3618

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 200.00 | 100   | 100     |
| 170.00 | 22.30 | 223.51# |
| 52.00  | 68.10 | 296.95# |
| 0.00   | 0.00  | 0.00    |

# Quantitation Report (Qedit)

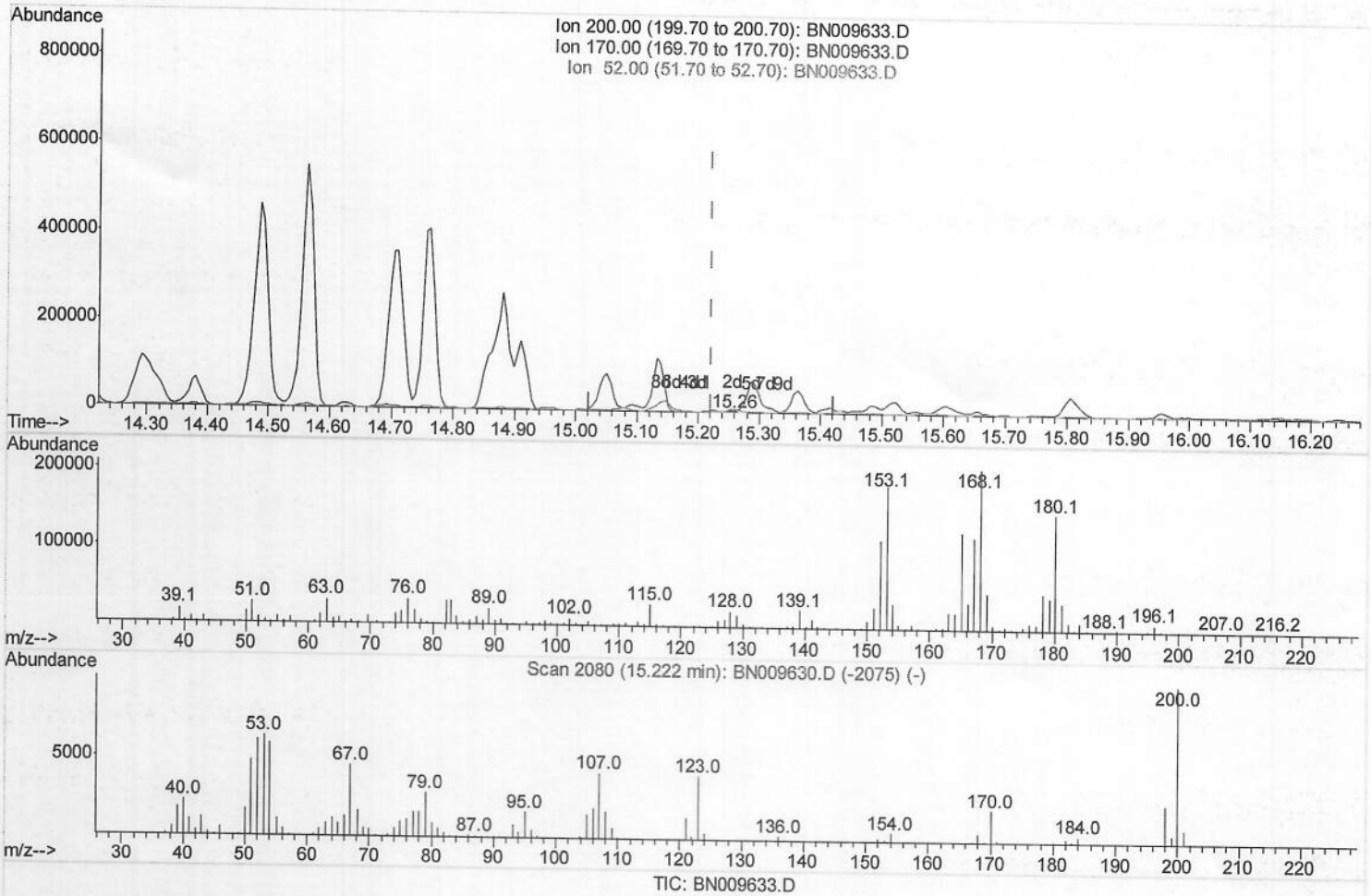
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN020620\  
 Data File : BN009633.D  
 Acq On : 07 Feb 2020 05:59  
 Operator : CG/JU  
 Sample : L1324-05 10X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAT62

Manual Integrations  
 APPROVED

mohammad  
 2/10/2020 8:20:35 AM

Quant Time: Feb 07 14:44:34 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Feb 07 11:12:58 2020  
 Response via : Initial Calibration



(62) 4,6-Dinitro-2-methylphenol-d2 (S)

15.257min (+0.035) 0.59ng/ul m

response 3618

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 200.00 | 100   | 100     |
| 170.00 | 22.30 | 223.51# |
| 52.00  | 68.10 | 296.95# |
| 0.00   | 0.00  | 0.00    |

54 02/13/20

Quantitation Report (LSC Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\  
Data File : BN009633.D  
Acq On : 07 Feb 2020 05:59  
Operator : CG/JU  
Sample : L1324-05 10X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAT62

Manual Integrations  
APPROVED

mohammad  
2/10/2020 8:20:35 AM

Quant Time: Feb 07 14:44:34 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 11:12:58 2020  
Response via : Initial Calibration

| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |