

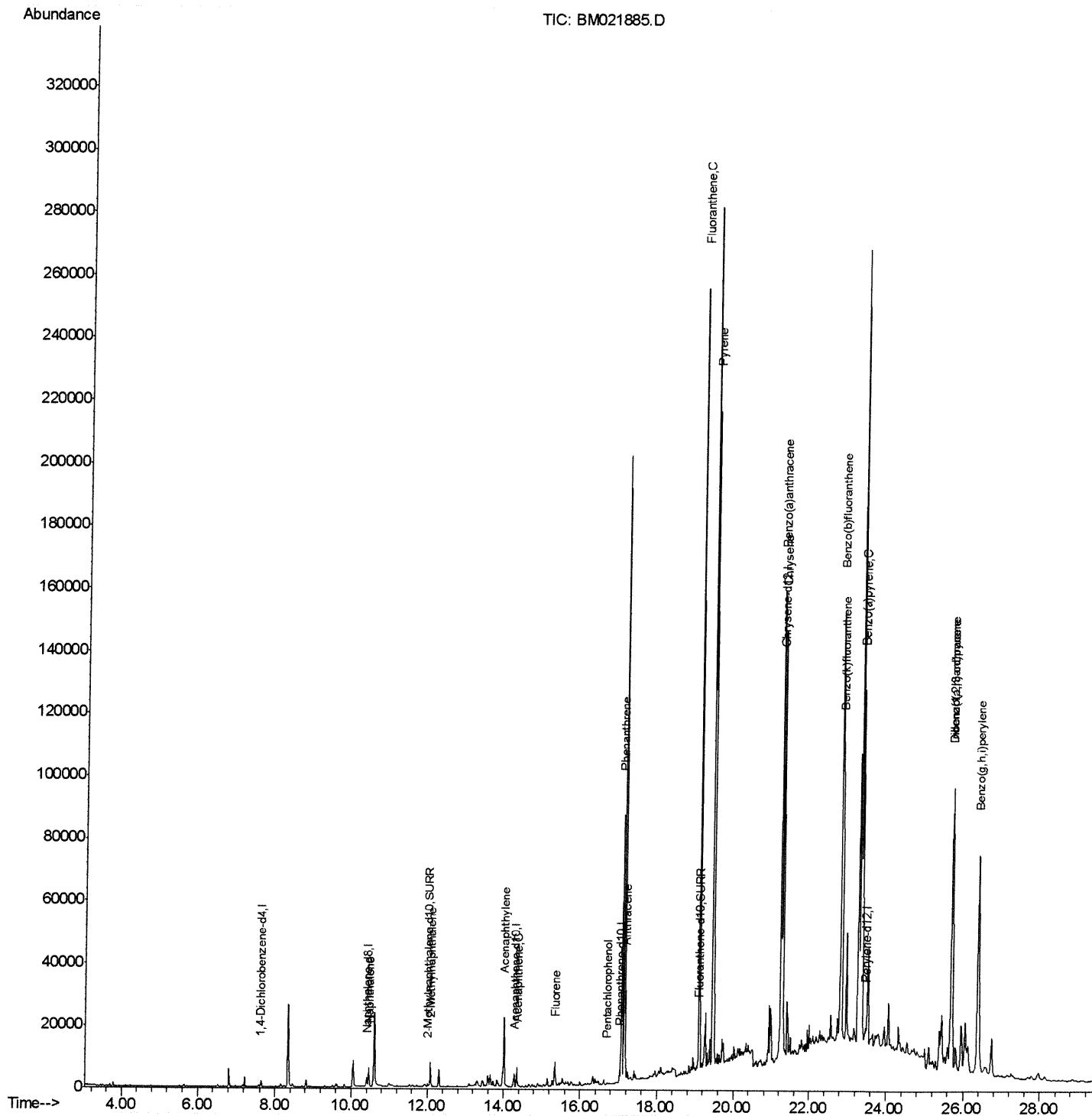
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
 Quantitation Report (QT Reviewed)  
 Data File : BM021885.D  
 Acq On : 07 Aug 2019 08:03  
 Operator : HP/JU  
 Sample : K3893-14  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BEP18

Manual Integrations  
 APPROVED

mohammad  
 8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:59:16 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 08:28:11 2019  
 Response via : Initial Calibration



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

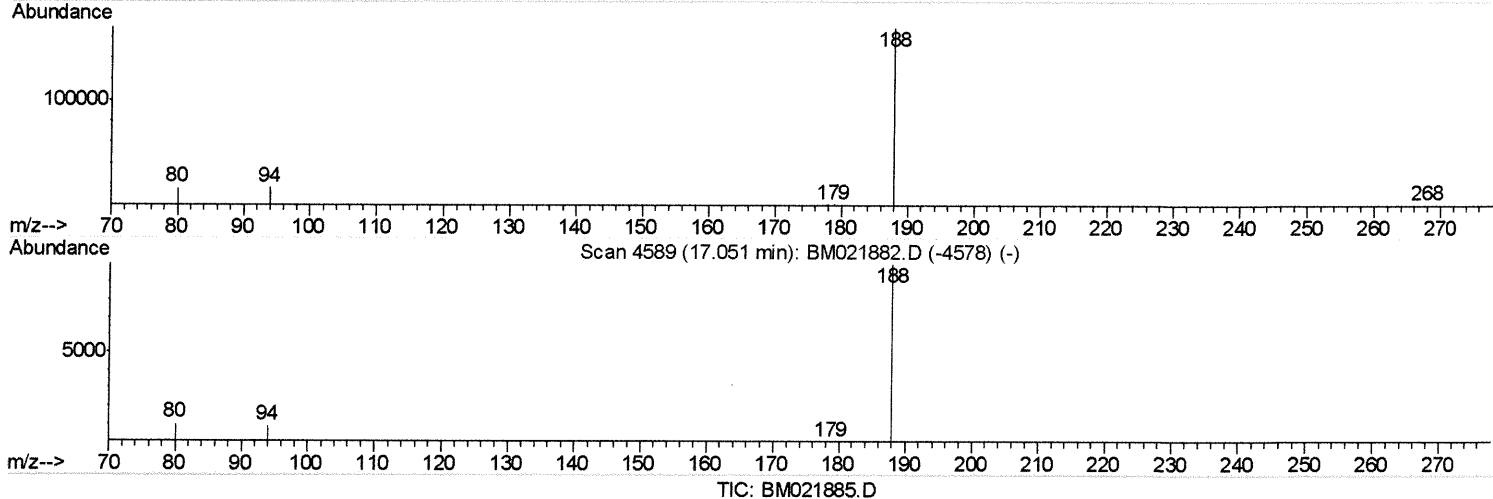
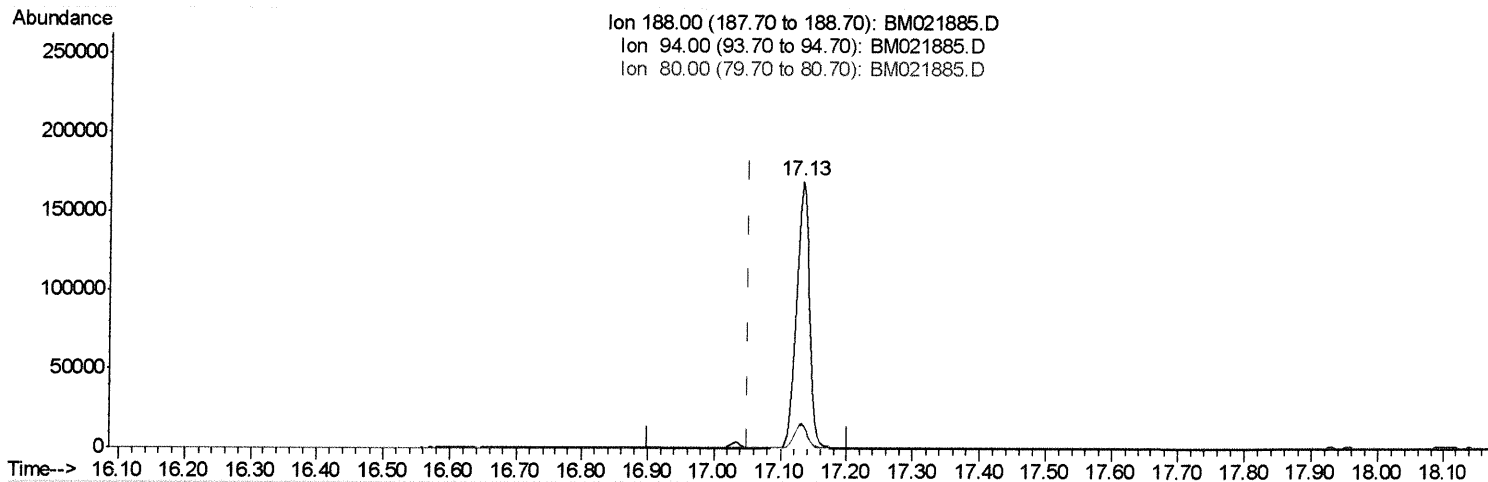
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampled :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:48:34 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.131min (+0.080) 0.40ng/ul

response 230451

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 10.40 | 9.53  |
| 80.00  | 11.40 | 8.99# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

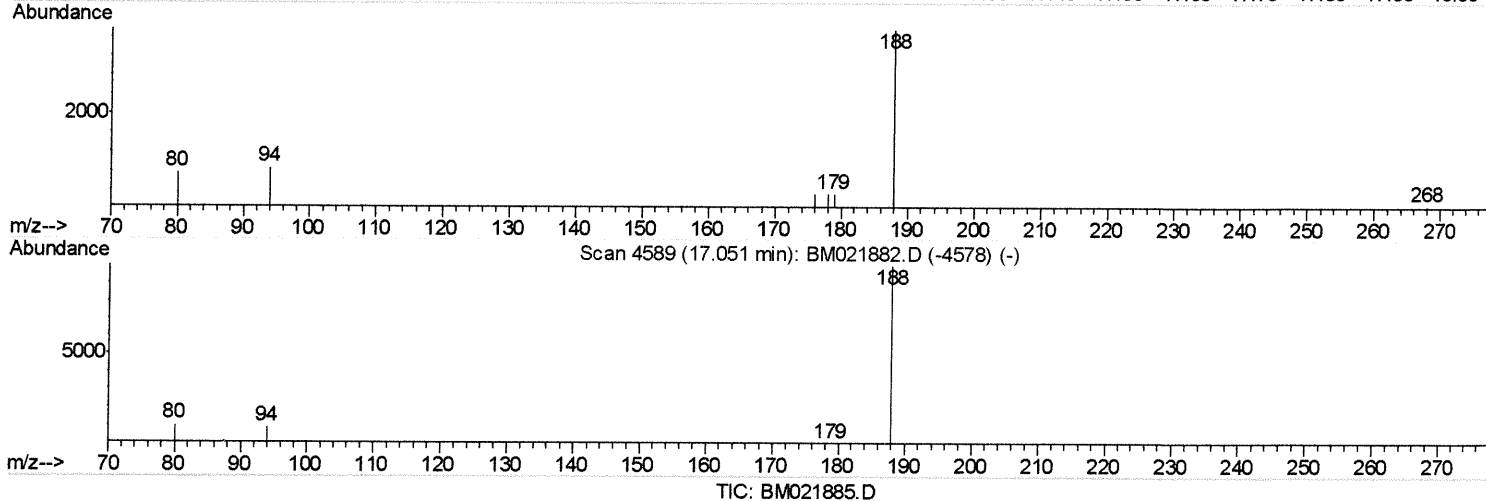
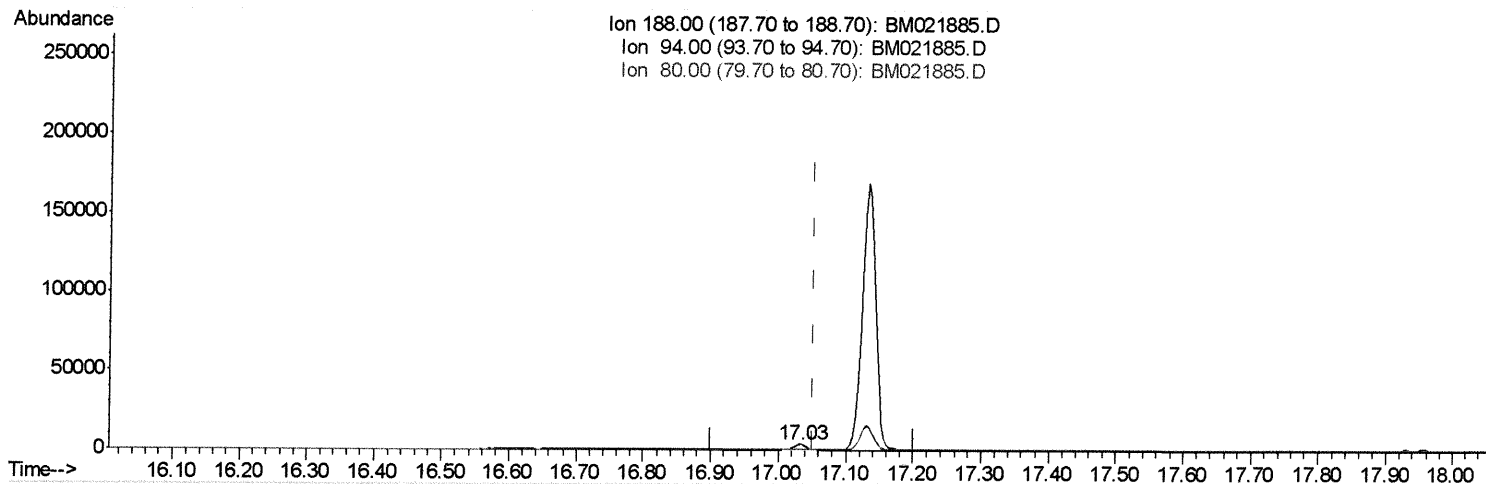
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:48:34 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.034min (-0.017) 0.40ng/ul m

JU  
08/07/19

response 5562

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 188.00 | 100   | 100    |
| 94.00  | 10.40 | 22.76# |
| 80.00  | 11.40 | 20.19# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

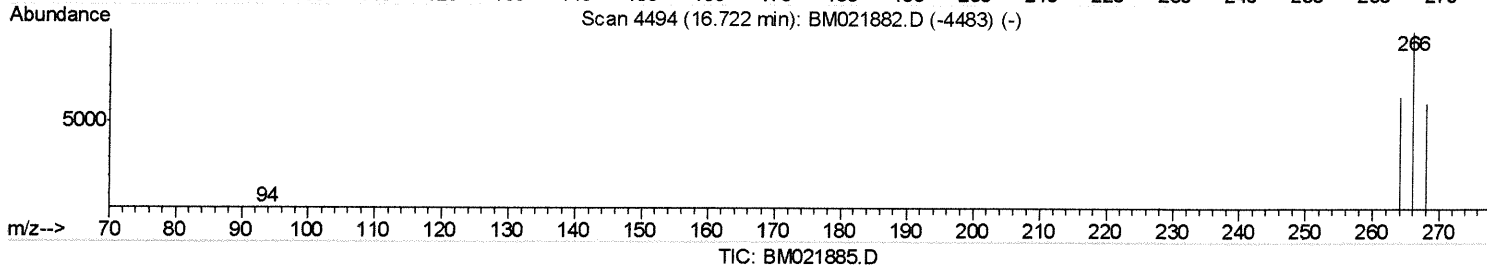
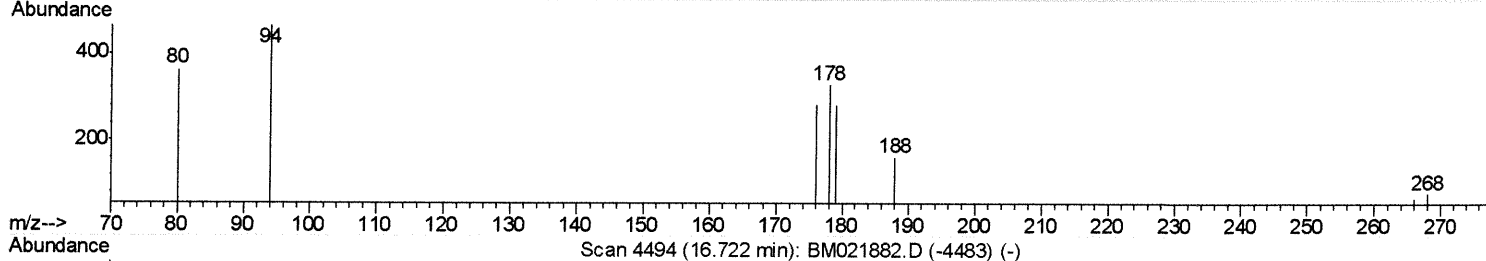
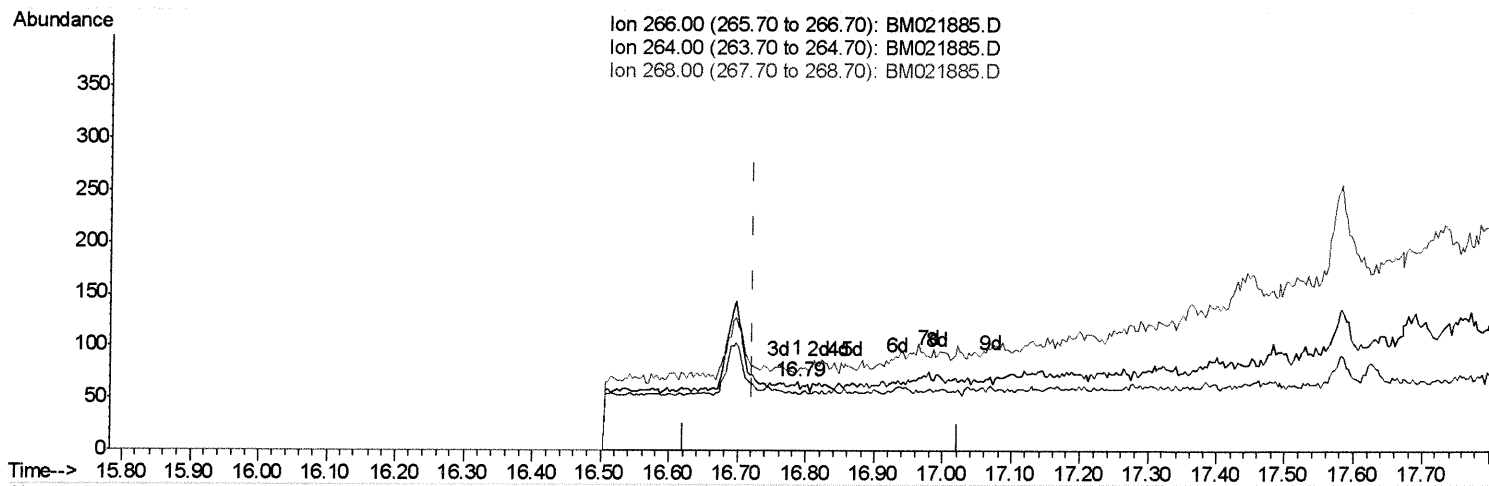
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampled :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(11) Pentachlorophenol  
16.787min (+0.066) 0.01ng/ul  
response 7

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 266.00 | 100   | 100    |
| 264.00 | 67.70 | 28.57# |
| 268.00 | 72.00 | 71.43  |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

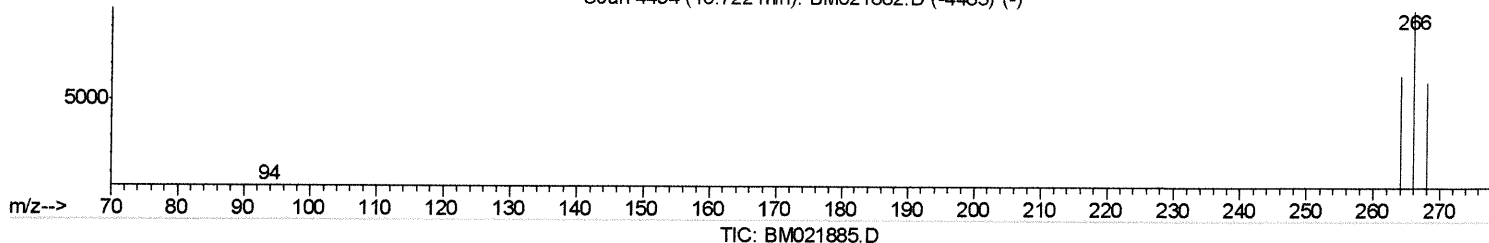
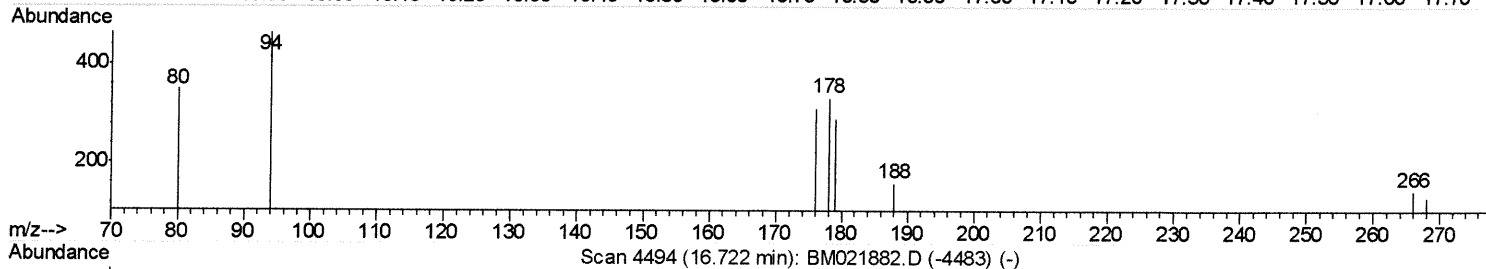
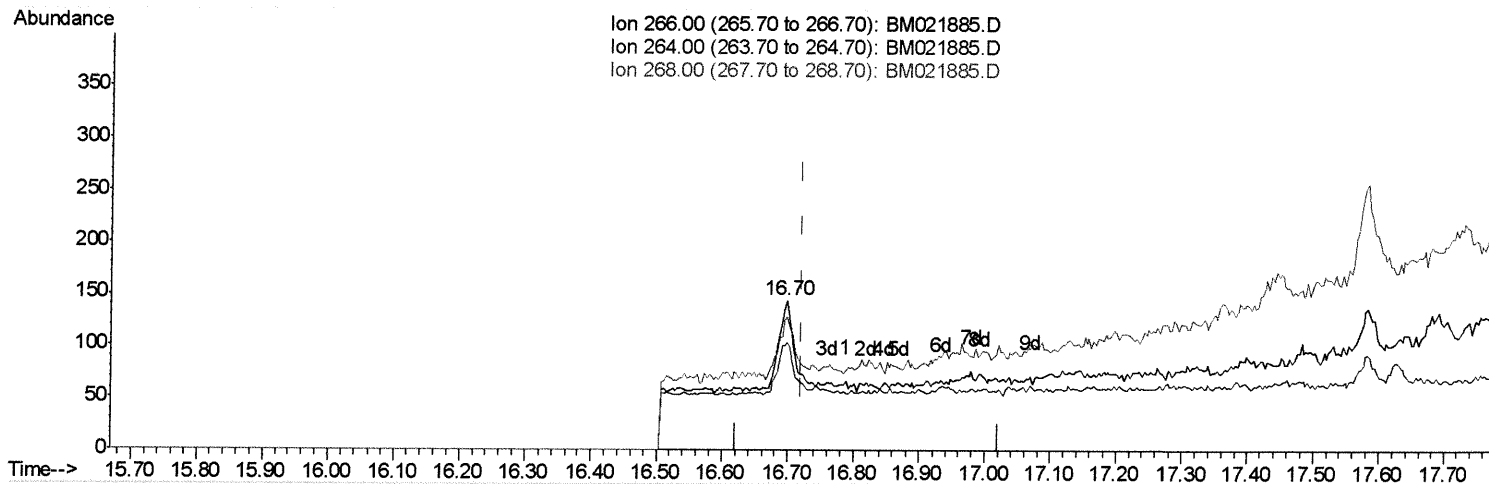
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(11) Pentachlorophenol

16.697min (-0.024) 0.15ng/ul m

JU  
08/07/19

response 149

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 266.00 | 100   | 100   |
| 264.00 | 67.70 | 1.34# |
| 268.00 | 72.00 | 3.36# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

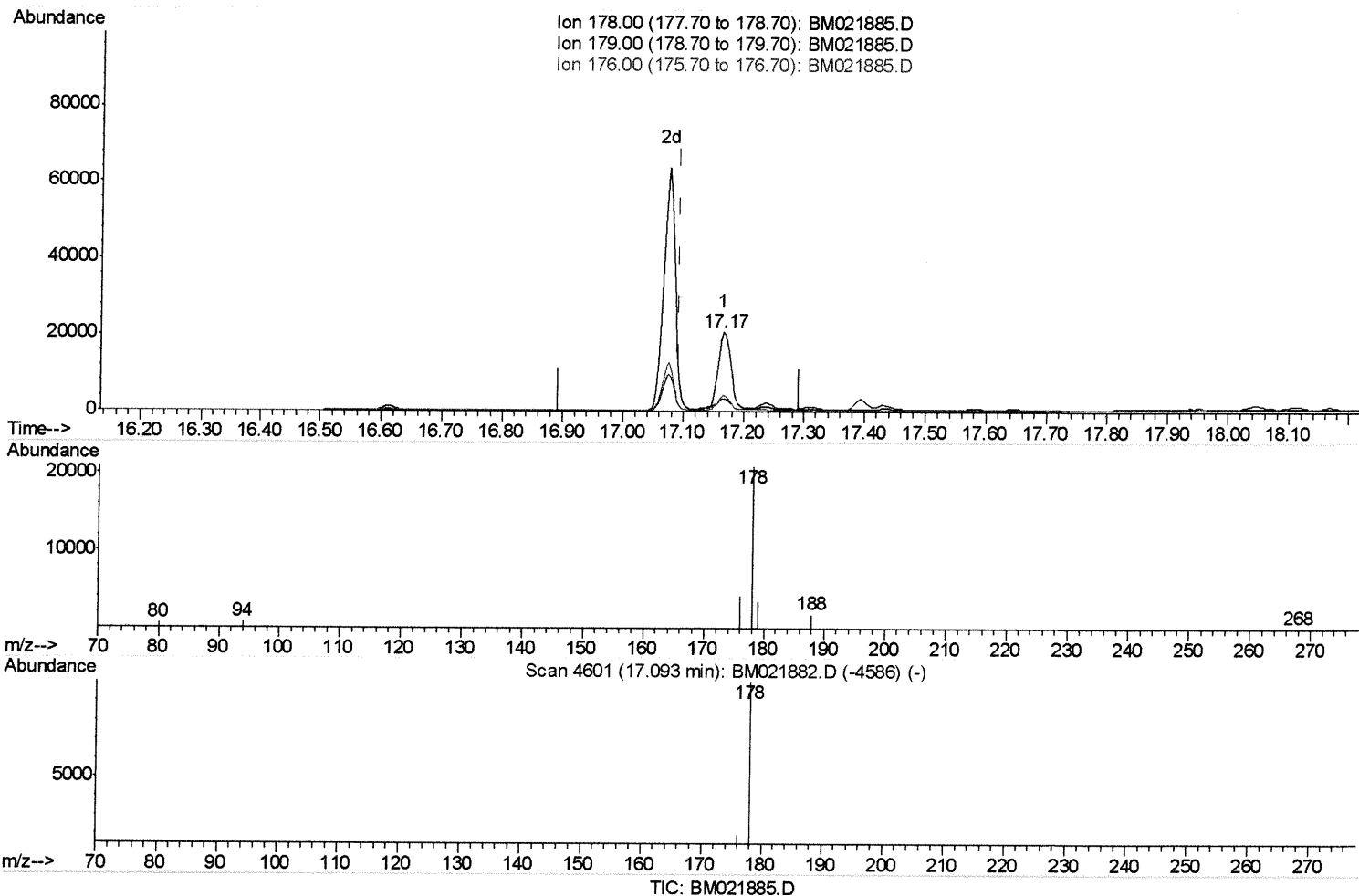
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(12) Phenanthrene

17.166min (+0.073) 1.78ng/ul

response 28748

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 100   |
| 179.00 | 17.70 | 16.97 |
| 176.00 | 21.00 | 20.44 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

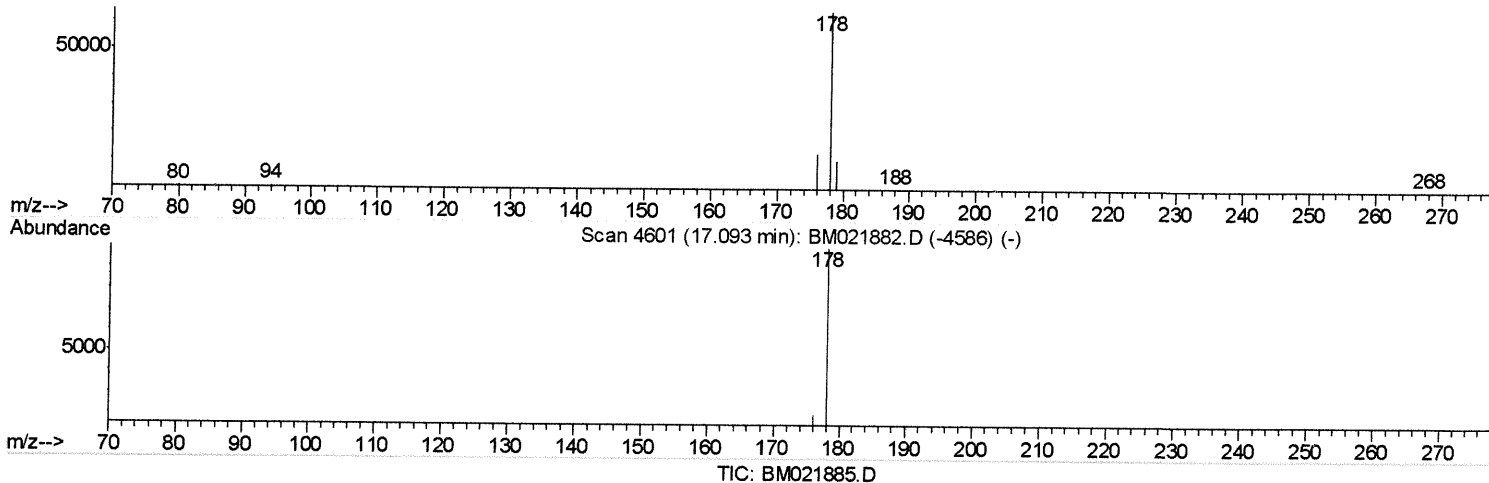
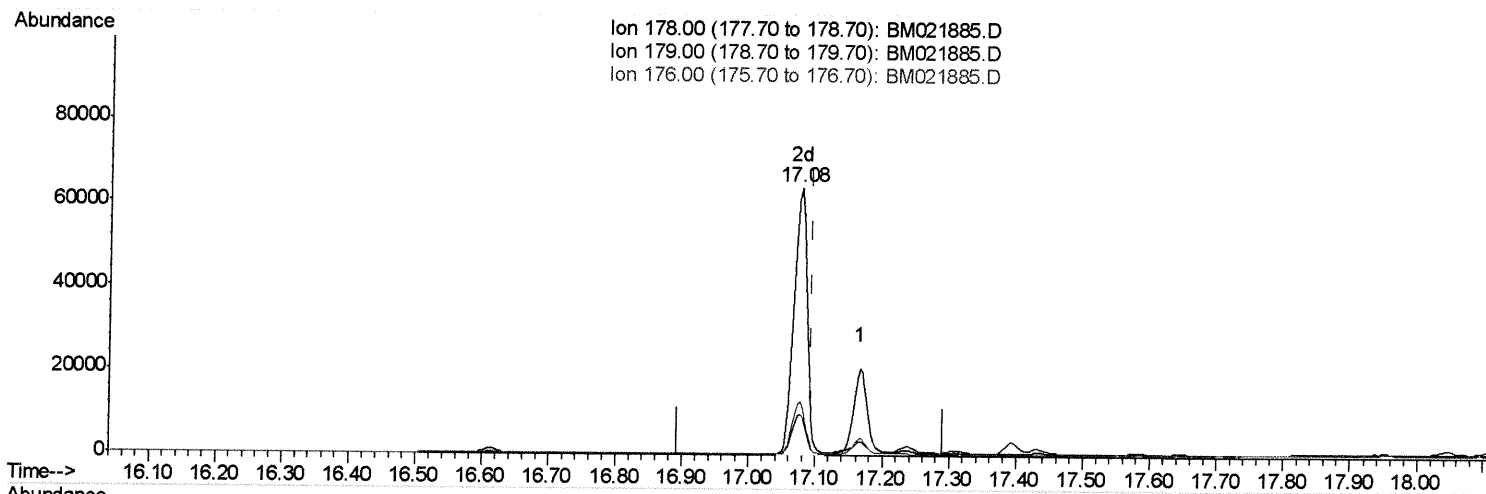
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(12) Phenanthrene

17.076min (-0.017) 5.28ng/ul m *JU 08/07/19*

response 85487

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 100   |
| 179.00 | 17.70 | 15.70 |
| 176.00 | 21.00 | 19.80 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

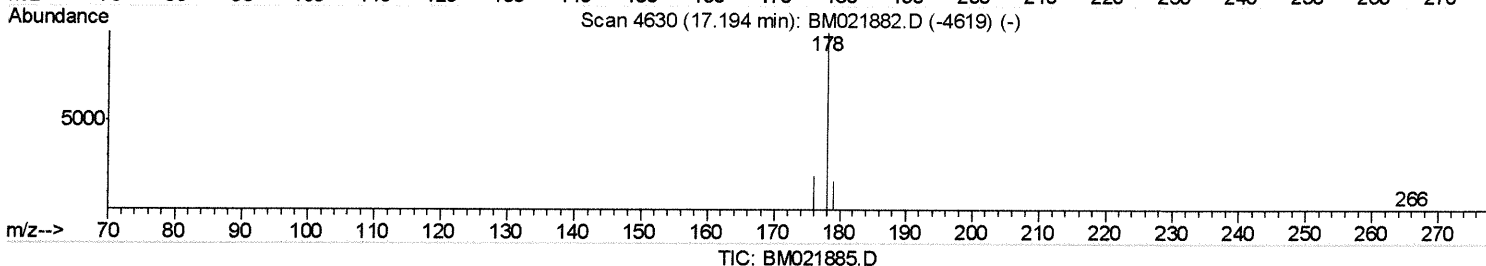
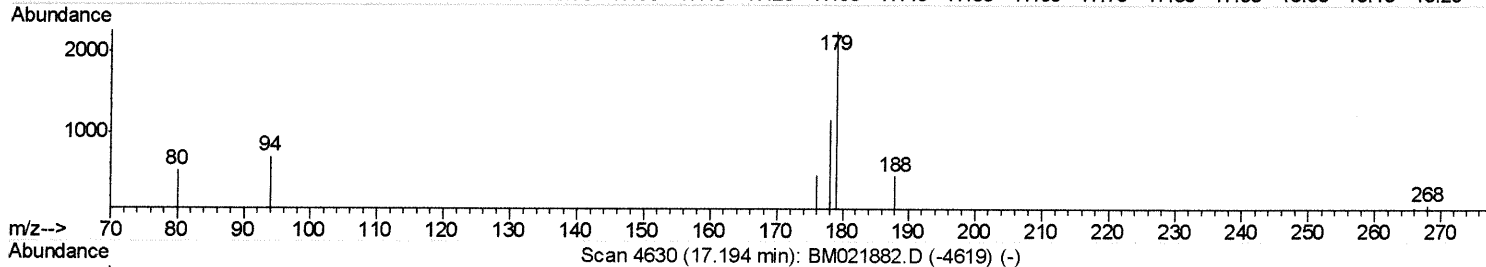
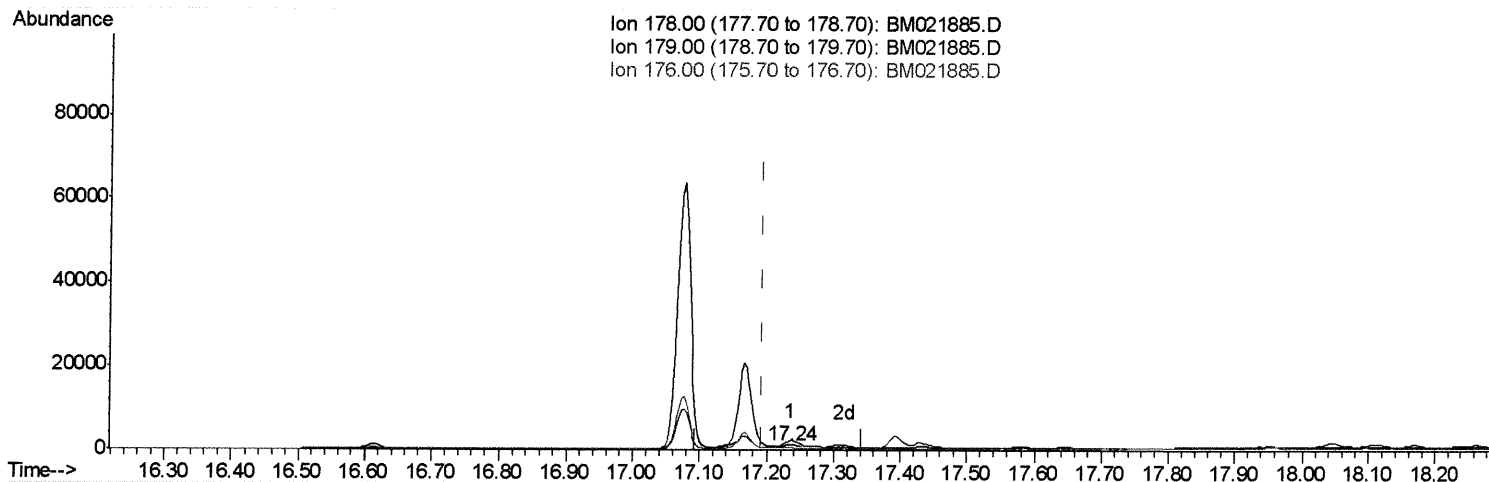
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(13) Anthracene

17.235min (+0.042) 0.07ng/ul

response 1012

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 178.00 | 100   | 100     |
| 179.00 | 19.40 | 194.41# |
| 176.00 | 20.80 | 40.10#  |
| 0.00   | 0.00  | 0.00    |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

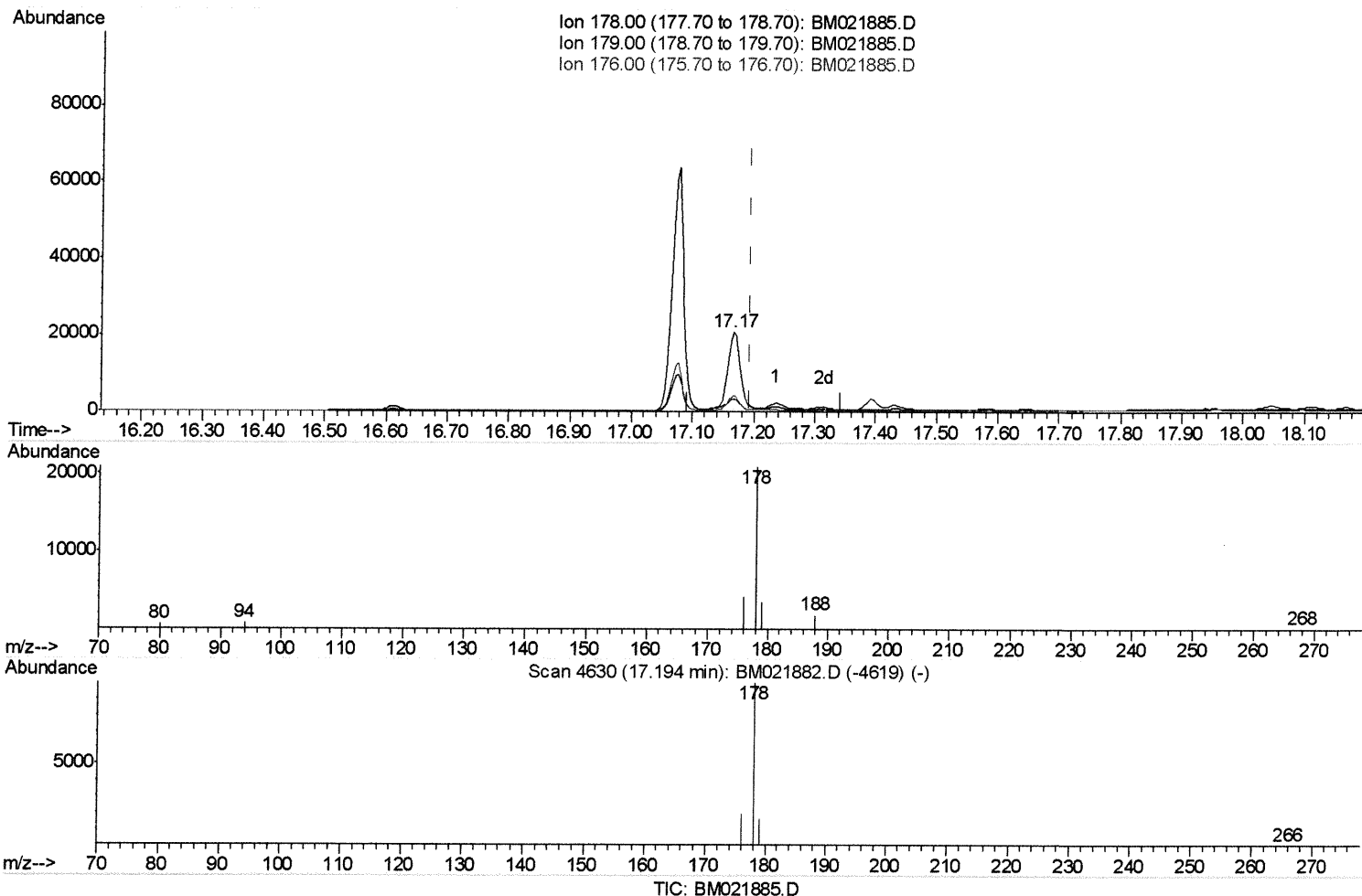
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(13) Anthracene

17.166min (-0.028) 2.08ng/ul m <sup>JU</sup> 08/07/19

response 28719

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 100   |
| 179.00 | 19.40 | 16.97 |
| 176.00 | 20.80 | 20.44 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

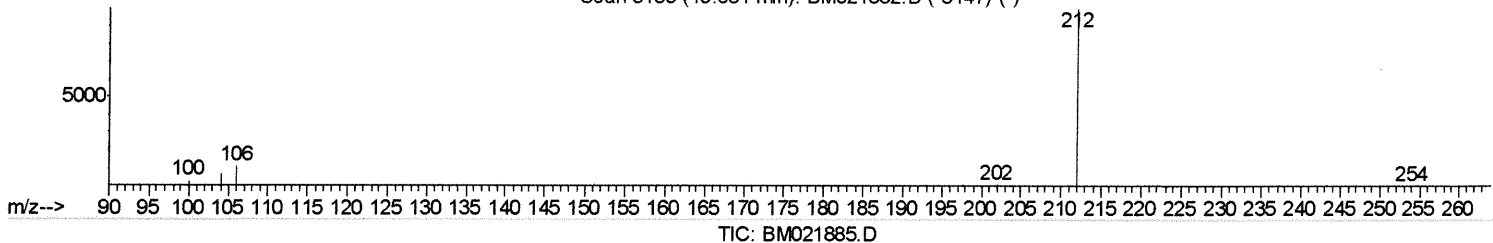
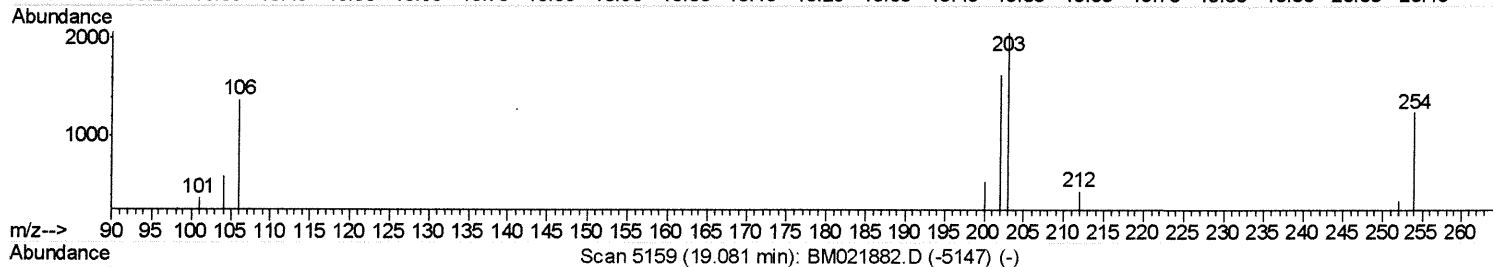
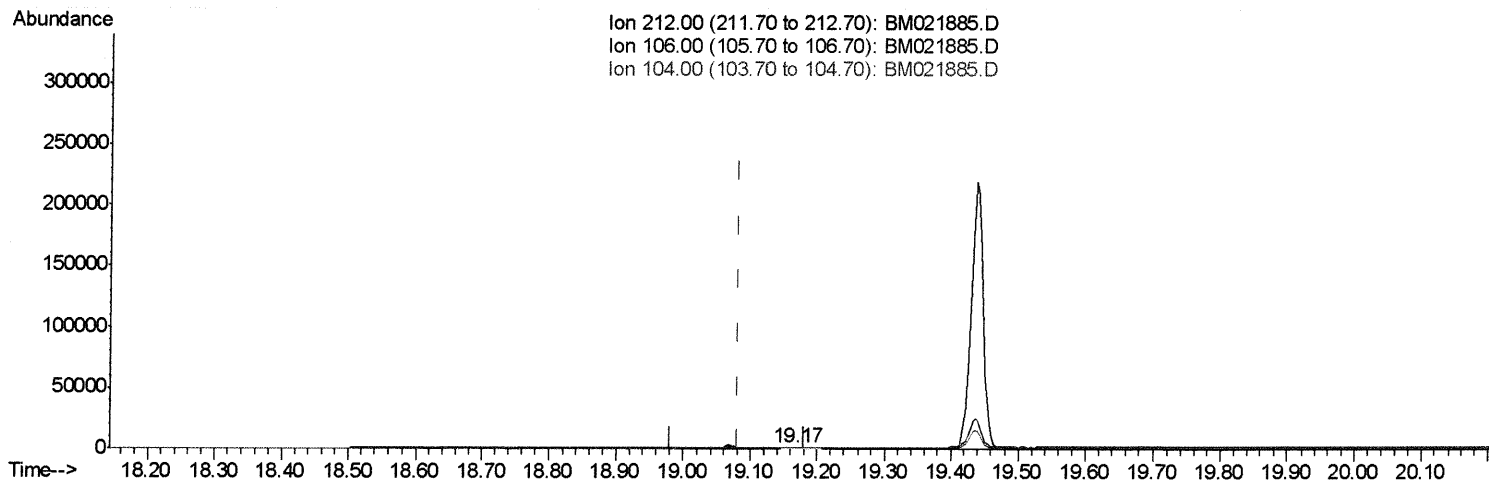
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.169min (+0.088) 0.01ng/ul

response 189

| Ion    | Exp% | Act%   |
|--------|------|--------|
| 212.00 | 100  | 100    |
| 106.00 | 9.90 | 27.51# |
| 104.00 | 6.00 | 0.00#  |
| 0.00   | 0.00 | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

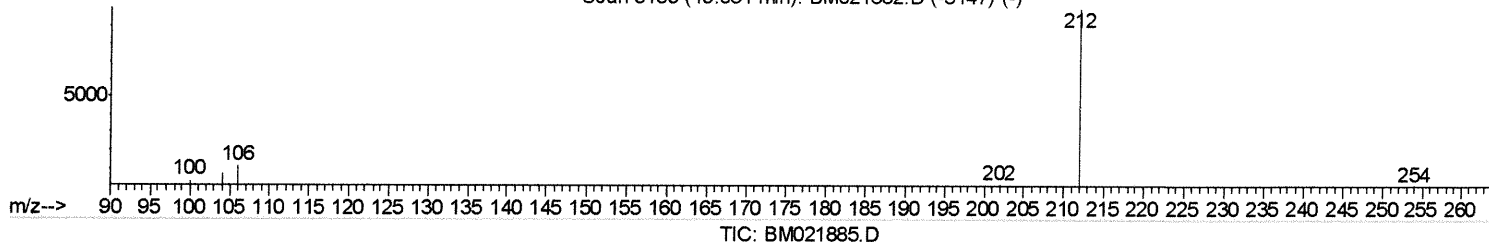
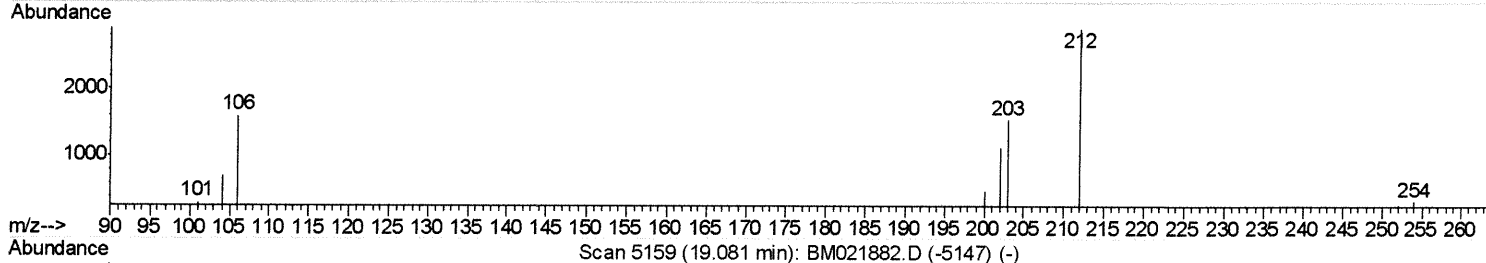
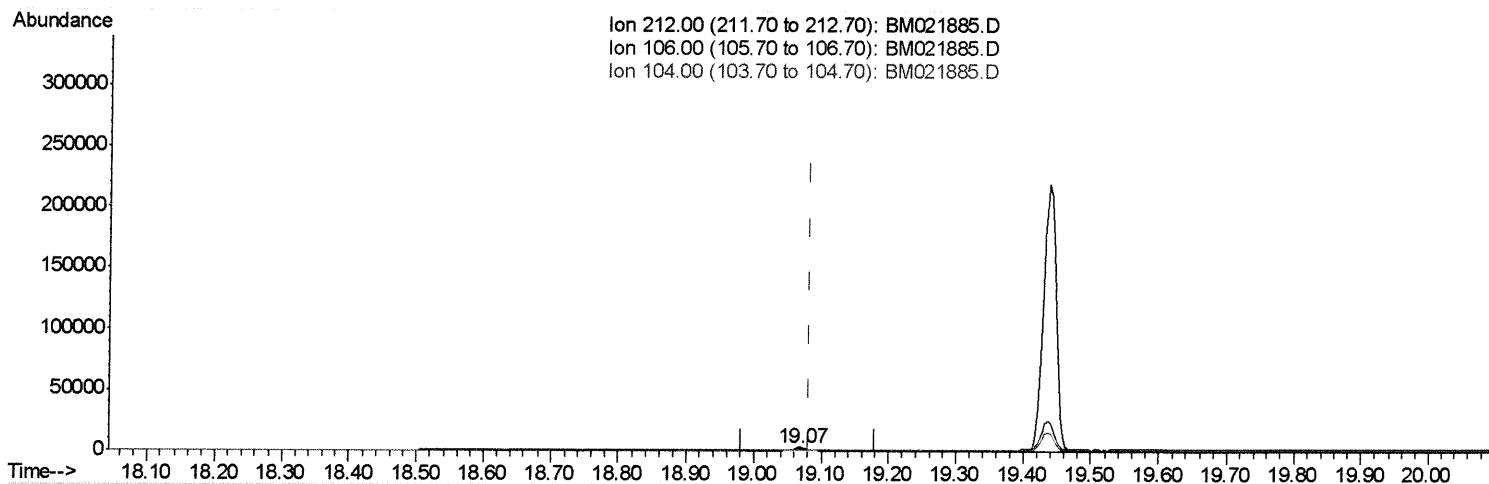
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.070min (-0.012) 0.23ng/ul m

response 4310

| Ion    | Exp% | Act%  |
|--------|------|-------|
| 212.00 | 100  | 100   |
| 106.00 | 9.90 | 1.21# |
| 104.00 | 6.00 | 0.00# |
| 0.00   | 0.00 | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

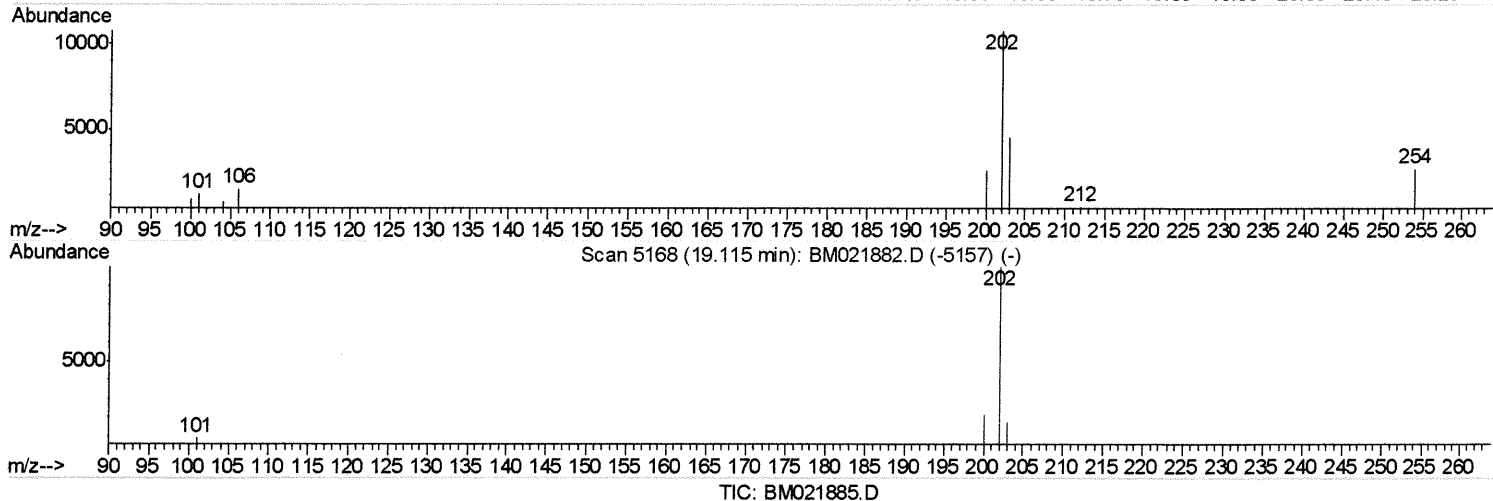
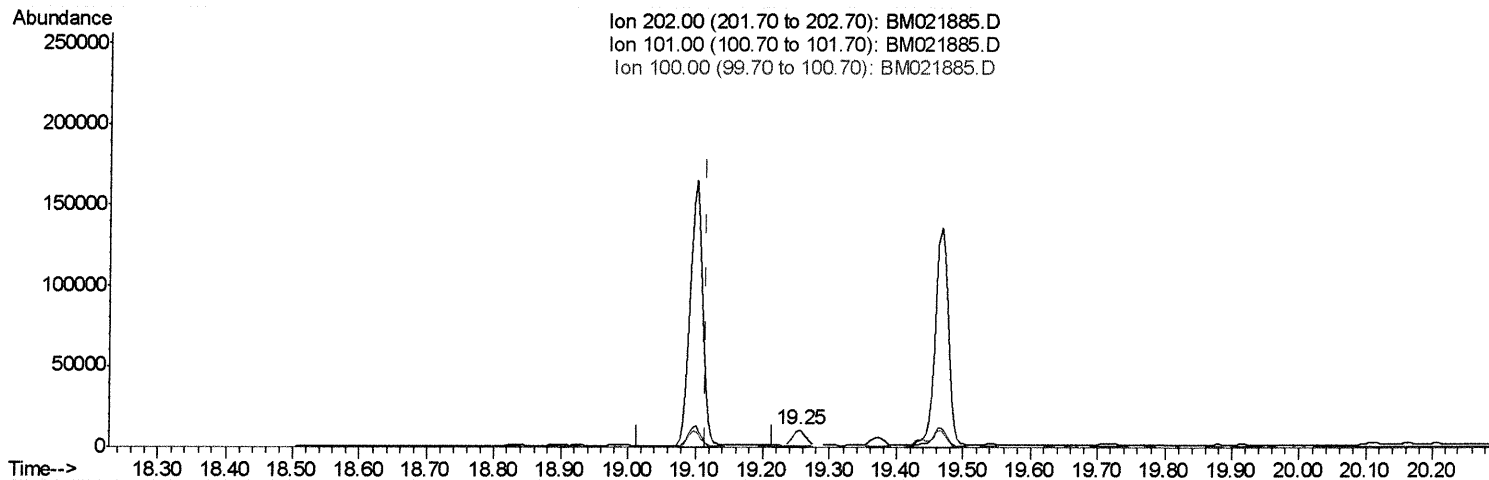
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(15) Fluoranthene (C)

19.253min (+0.137) 0.60ng/ul

response 12938

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 10.20 | 10.26 |
| 100.00 | 8.10  | 7.76  |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

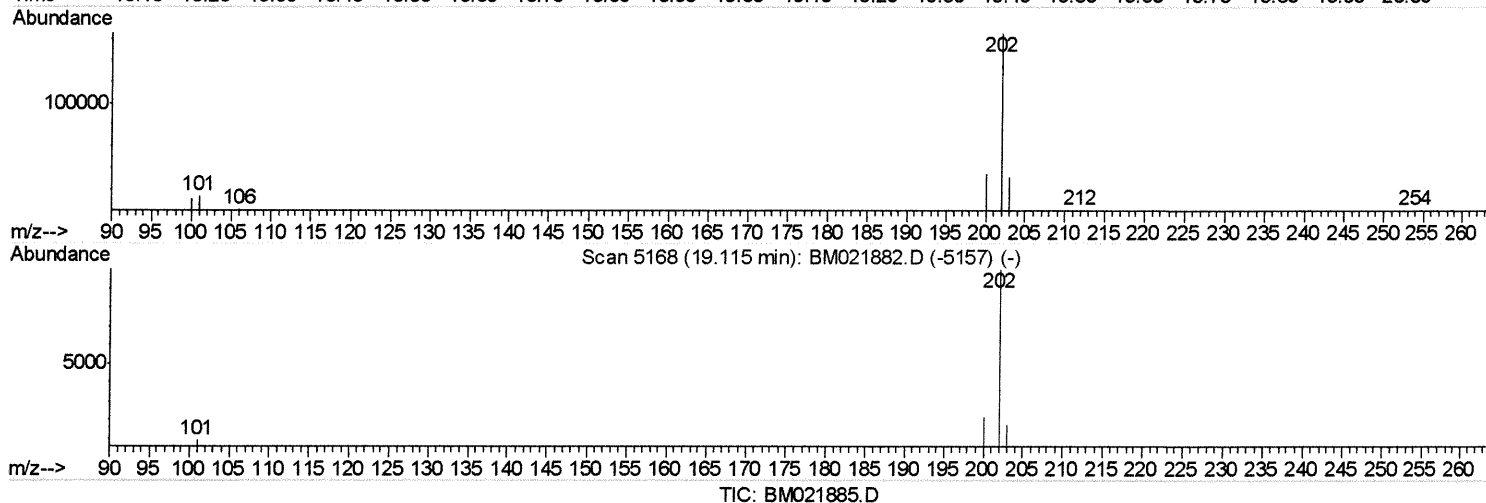
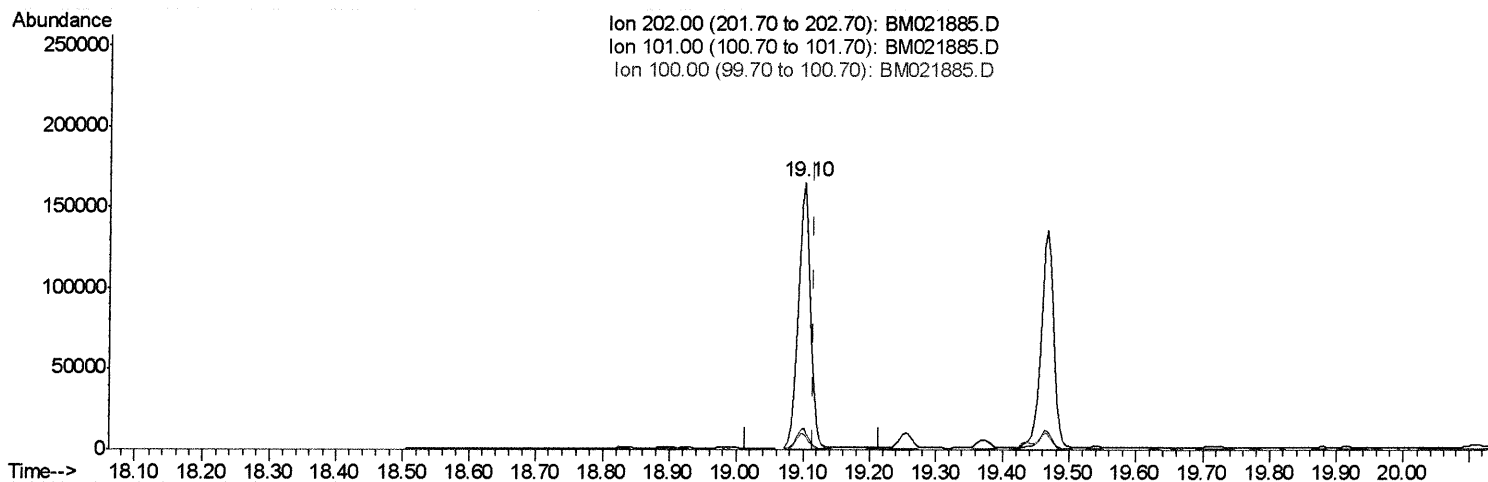
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(15) Fluoranthene (C)

19.100min (-0.015) 9.79ng/ul m

response 212223

| Ion    | Exp%  | Act% |
|--------|-------|------|
| 202.00 | 100   | 100  |
| 101.00 | 10.20 | 8.06 |
| 100.00 | 8.10  | 6.13 |
| 0.00   | 0.00  | 0.00 |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

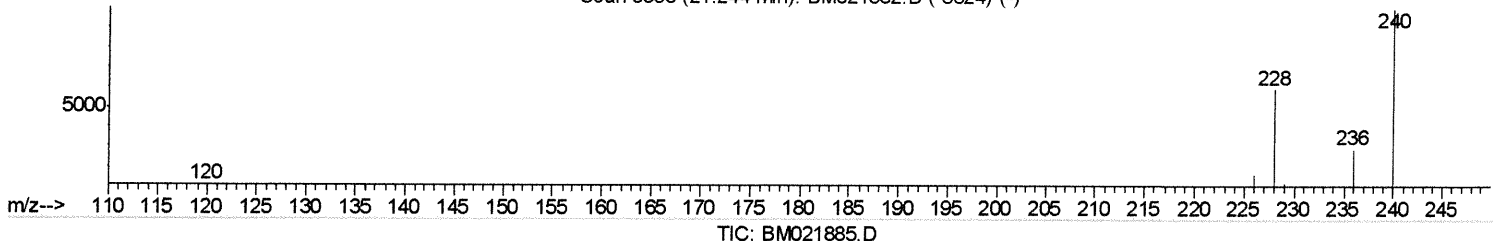
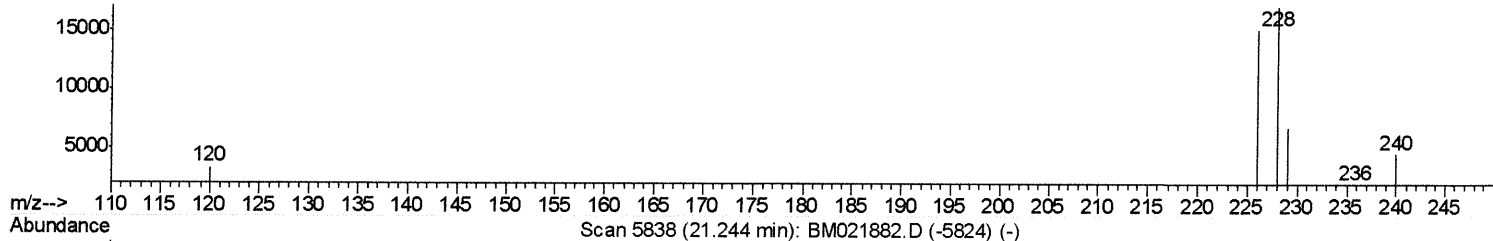
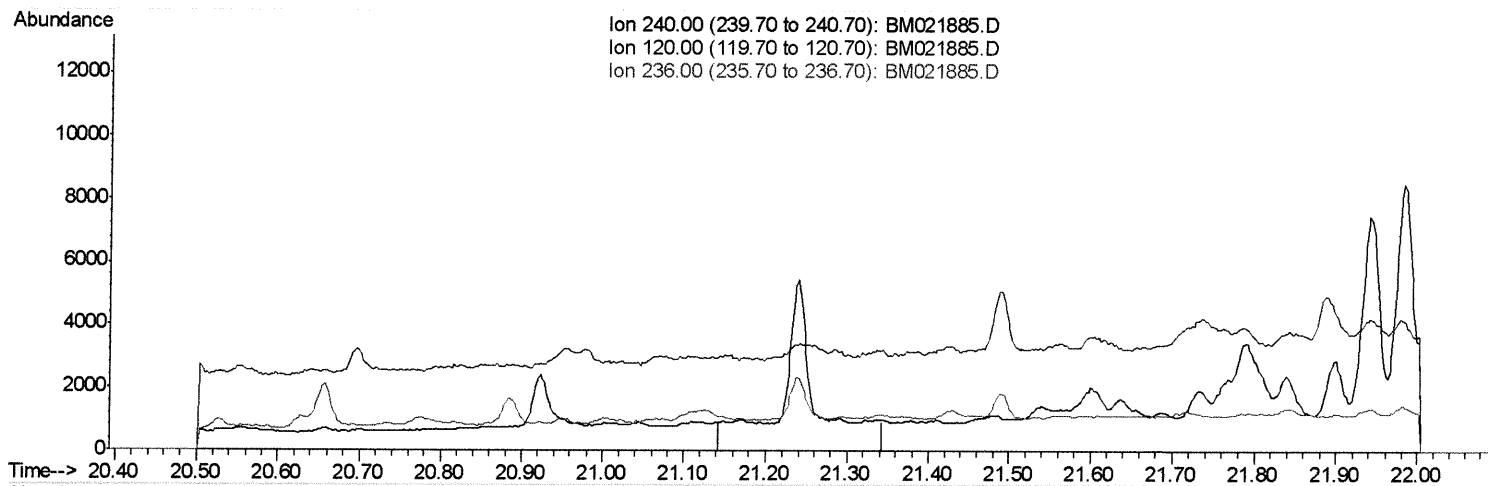
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampled :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.244min (-21.244) 0.00ng/ui

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 240.00 | 100   | 0.00  |
| 120.00 | 16.20 | 0.00# |
| 236.00 | 32.30 | 0.00# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

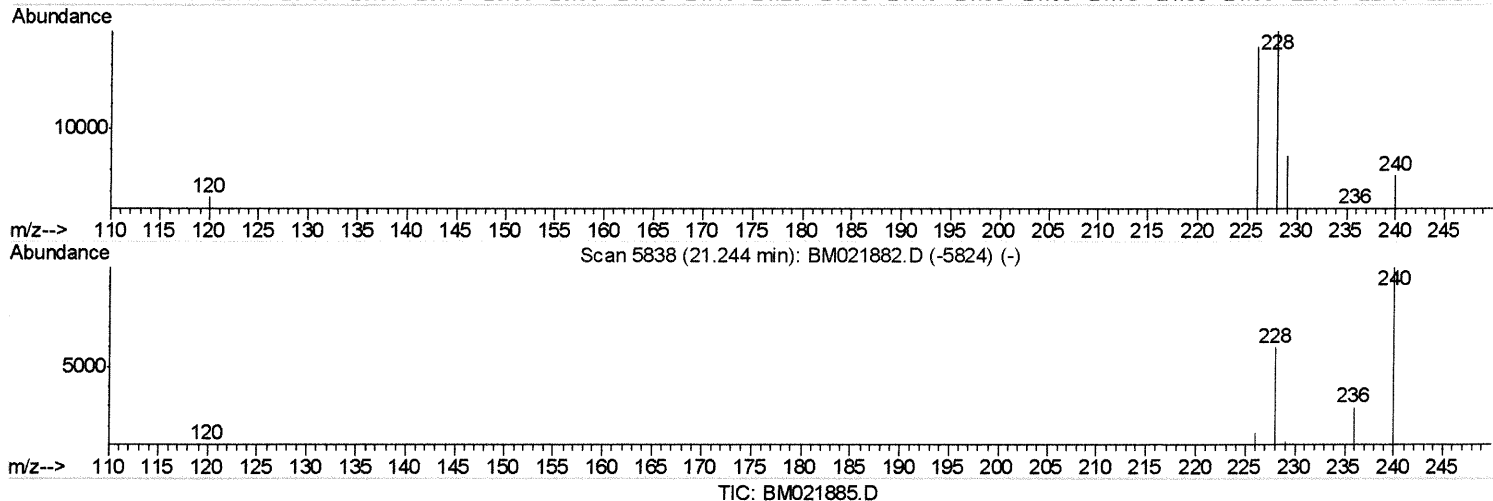
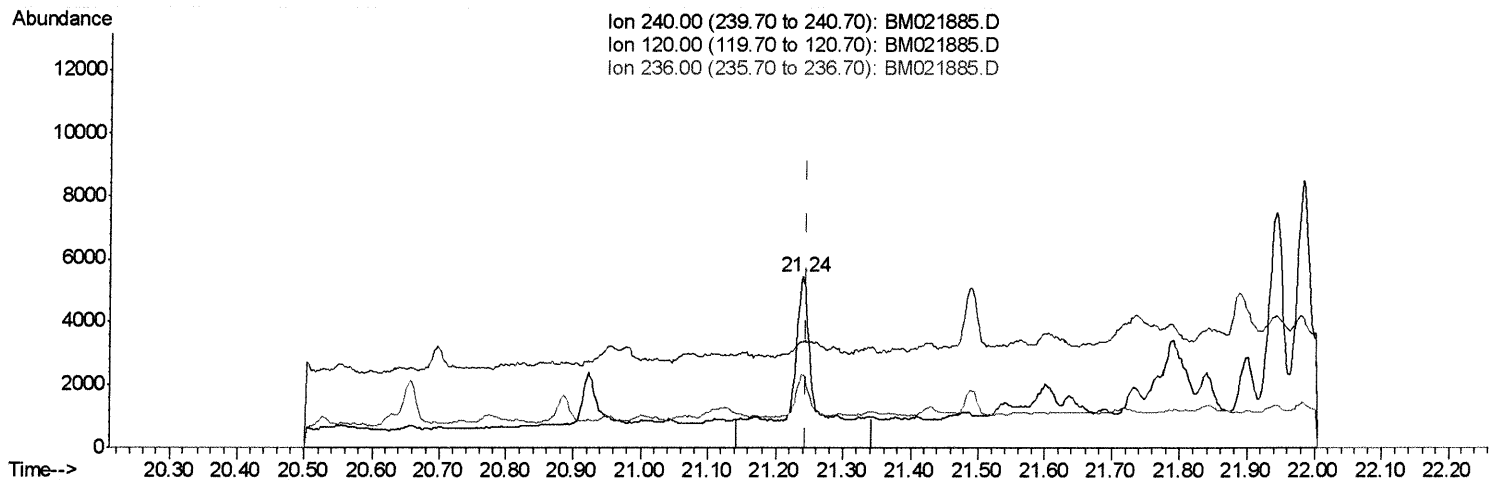
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:55:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.239min (-0.005) 0.40ng/ul m JU 08/07/19

response 5821

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 240.00 | 100   | 100    |
| 120.00 | 16.20 | 61.59# |
| 236.00 | 32.30 | 42.91# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

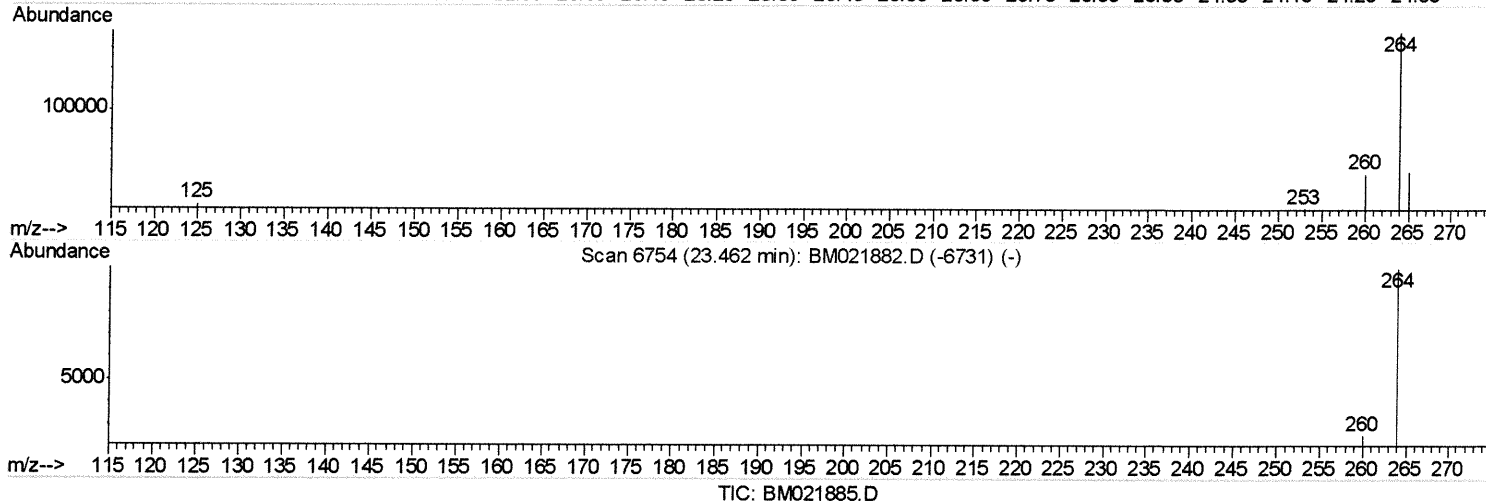
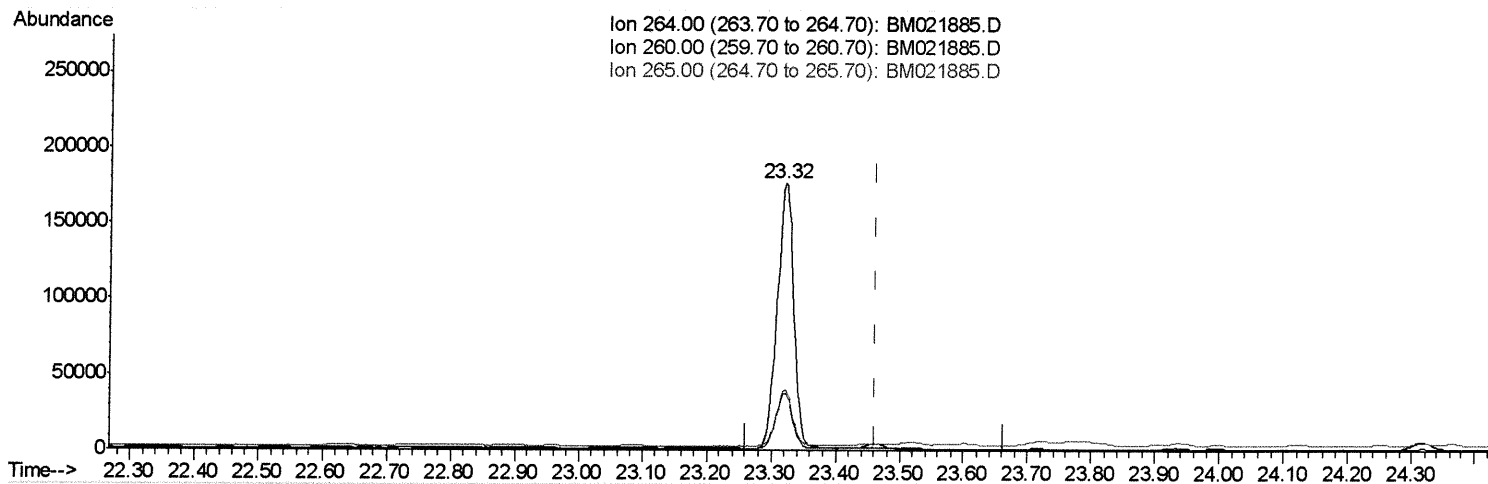
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampled :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(20) Perylene-d12 (I)

23.319min (-0.143) 0.40ng/ul

response 319978

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100    | 100    |
| 260.00 | 27.50  | 21.60# |
| 265.00 | 117.00 | 22.82# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

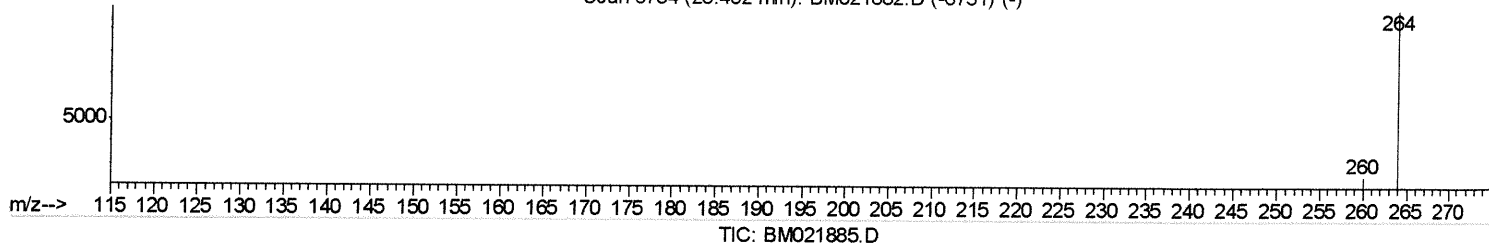
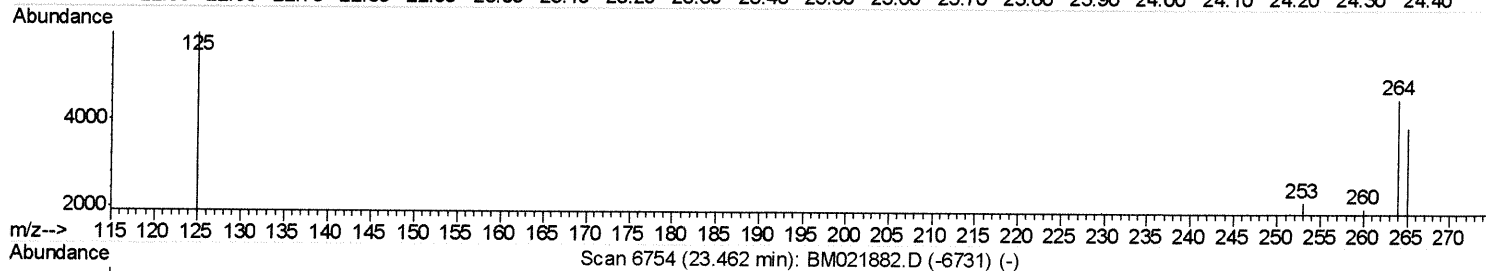
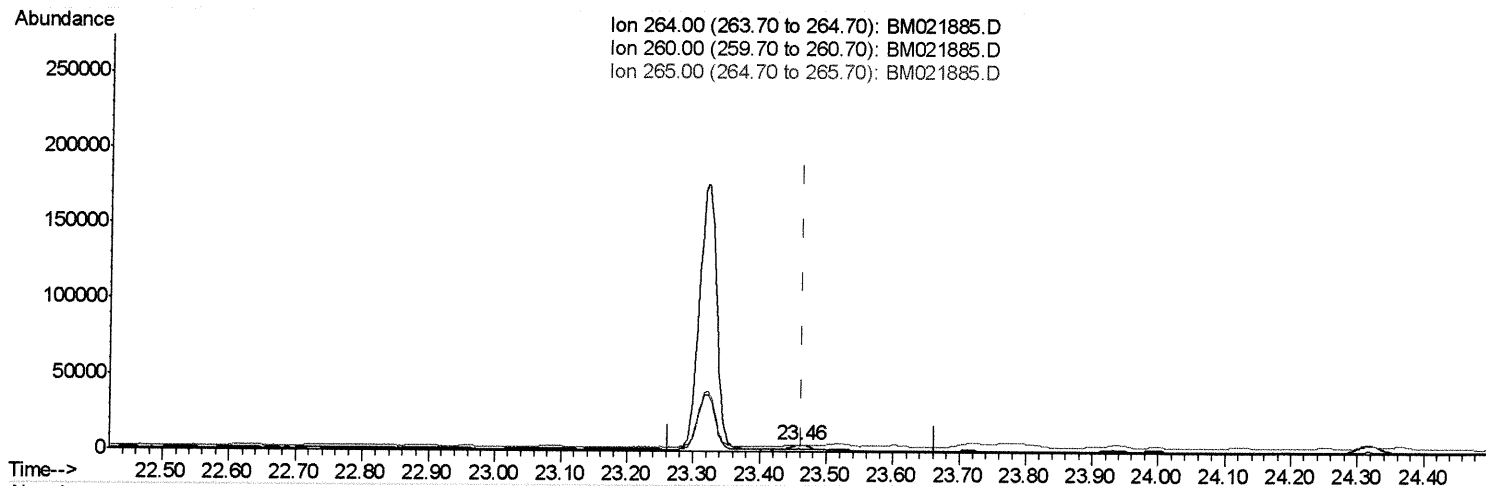
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(20) Perylene-d12 (I)

23.460min (-0.003) 0.40ng/ul m

JU  
08/07/19

response 6299

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100    | 100    |
| 260.00 | 27.50  | 44.67# |
| 265.00 | 117.00 | 85.33# |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

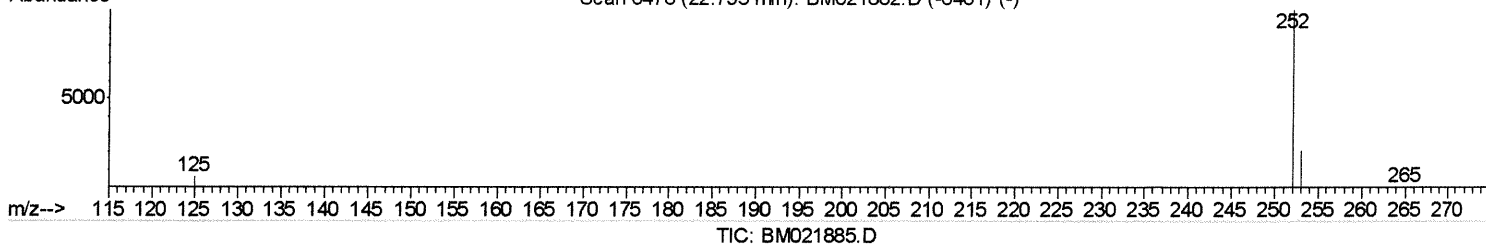
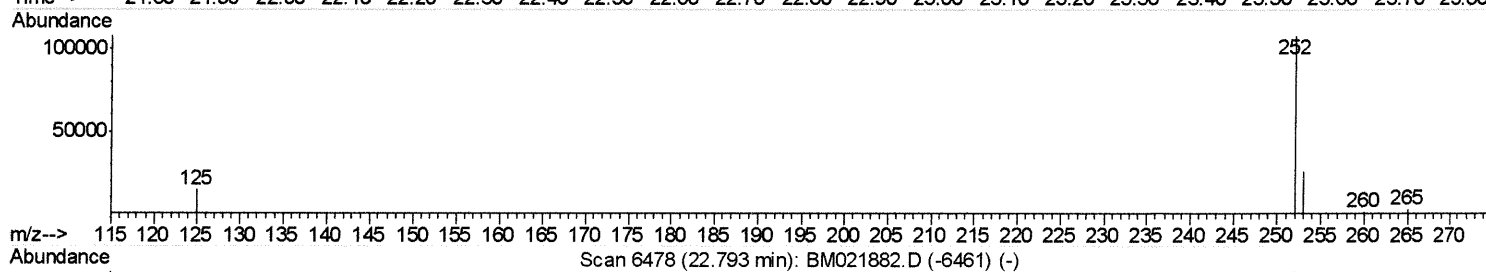
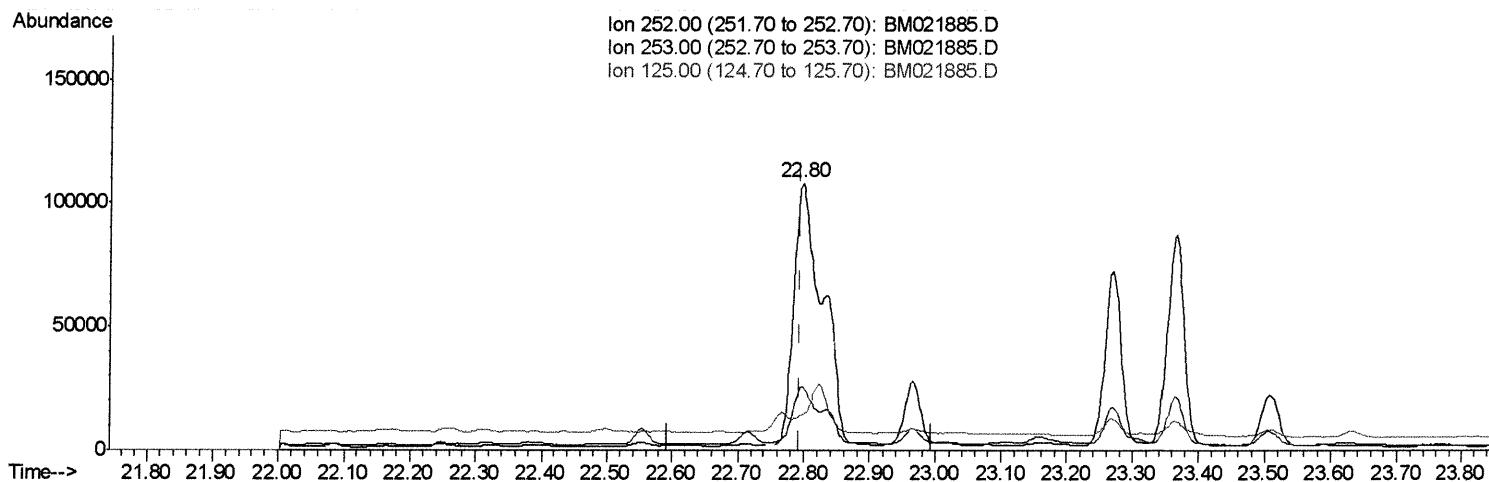
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.796min (+0.002) 14.20ng/ul

response 301554

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 33.70 | 24.12 |
| 125.00 | 15.50 | 13.44 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

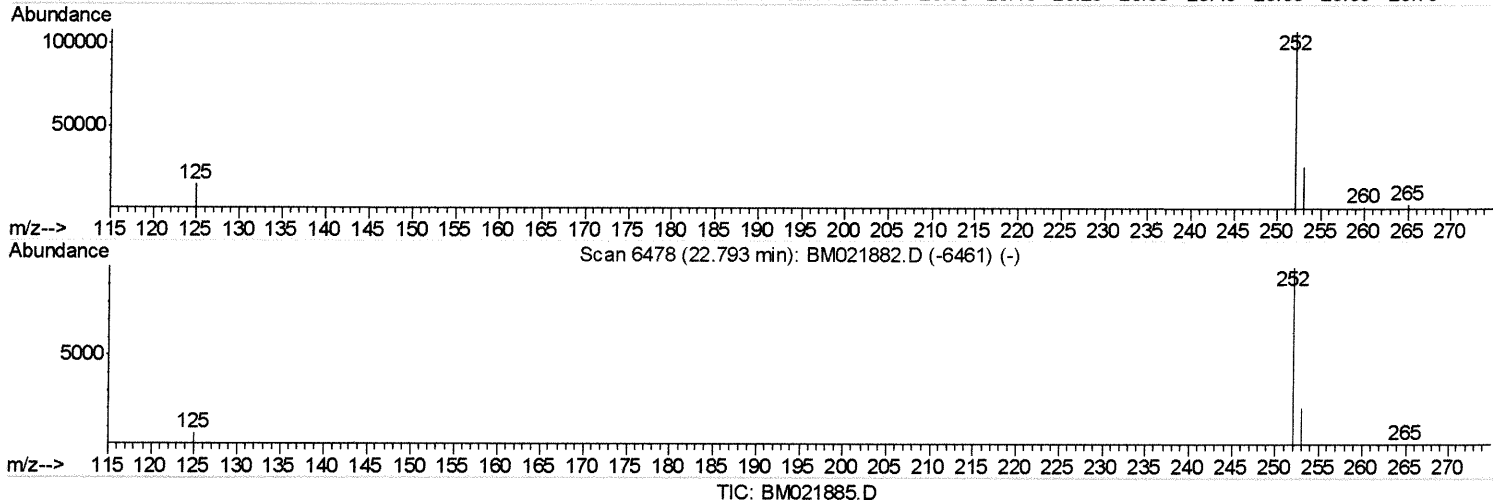
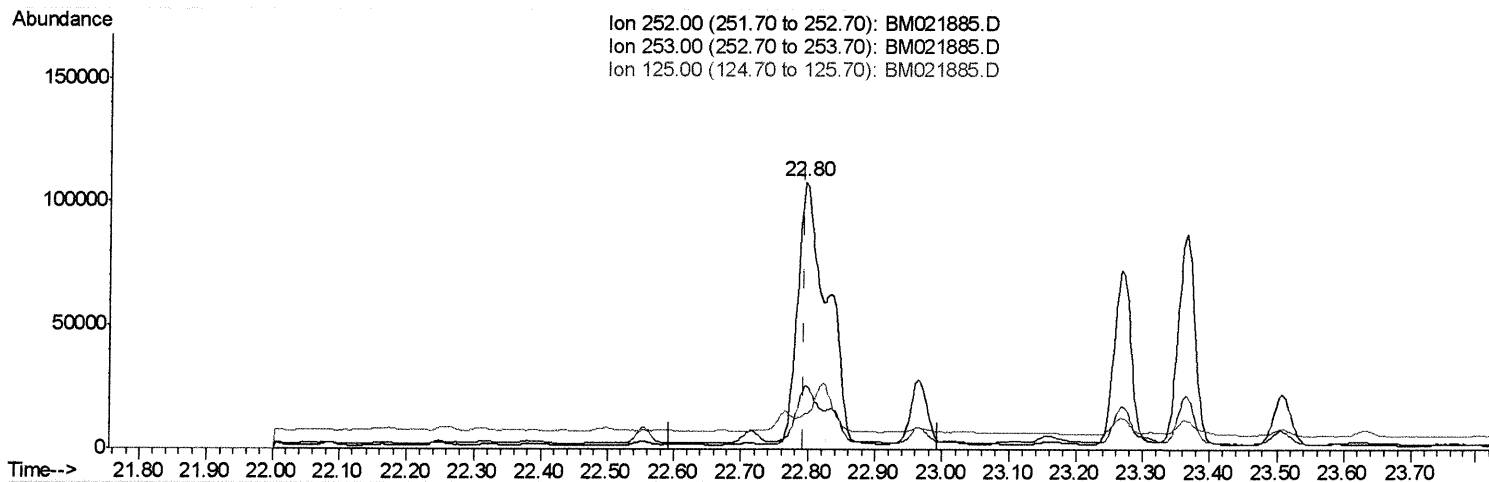
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.796min (+0.002) 11.09ng/ul m

JU  
08/07/19

response 235629

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 33.70 | 24.12 |
| 125.00 | 15.50 | 13.44 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

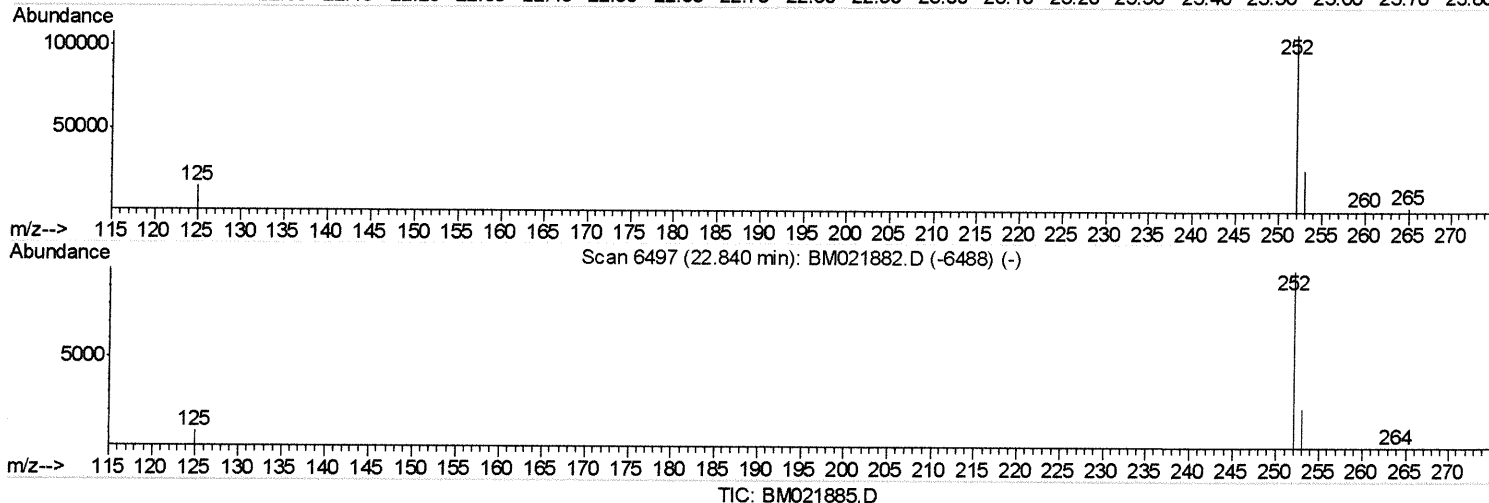
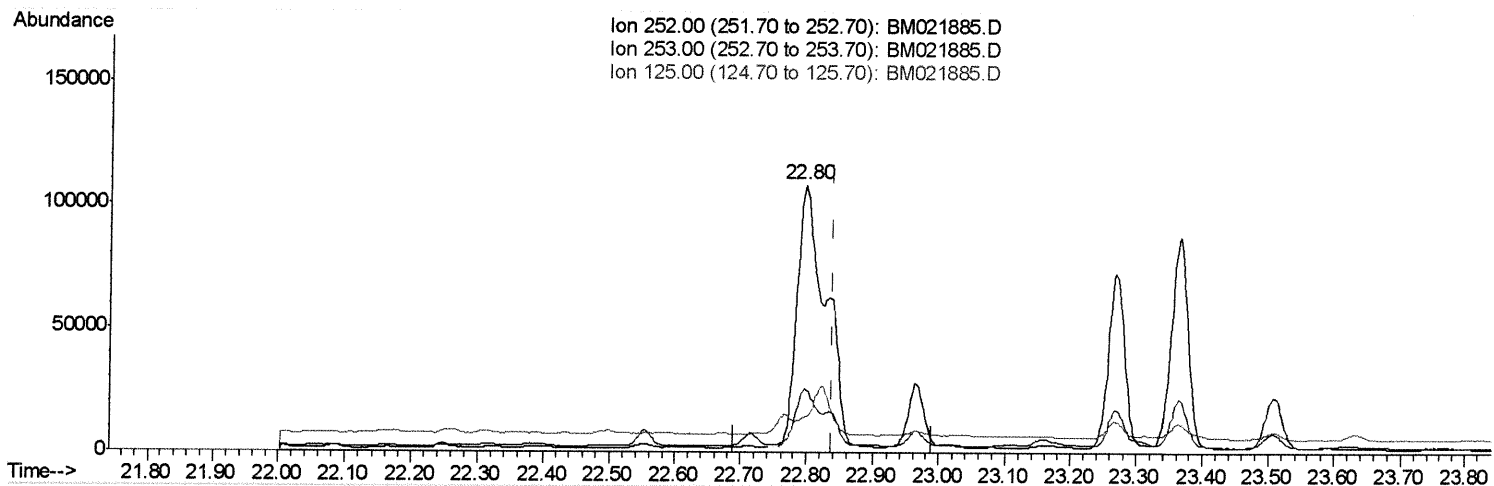
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.796min (-0.044) 11.99ng/ul

response 288149

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 33.70 | 24.12# |
| 125.00 | 15.20 | 13.44  |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

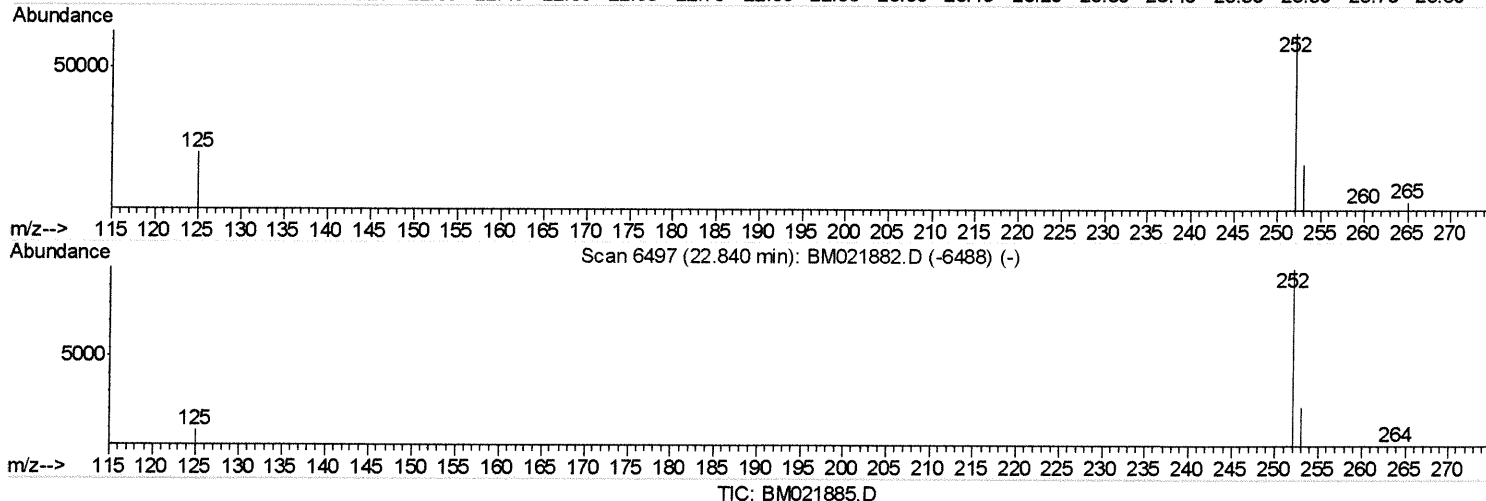
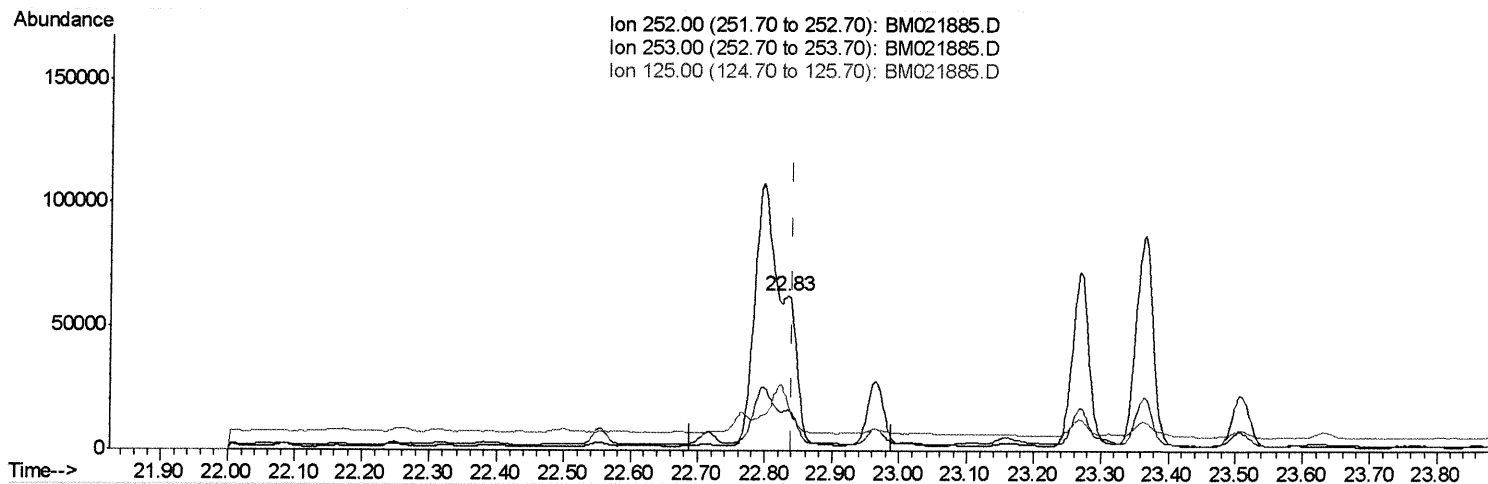
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.832min (-0.007) 3.78ng/ul m

response 90951

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 33.70 | 26.35# |
| 125.00 | 15.20 | 32.16# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

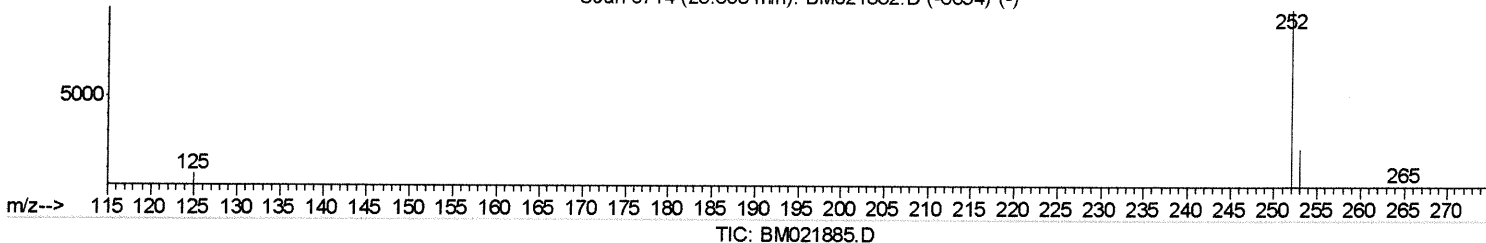
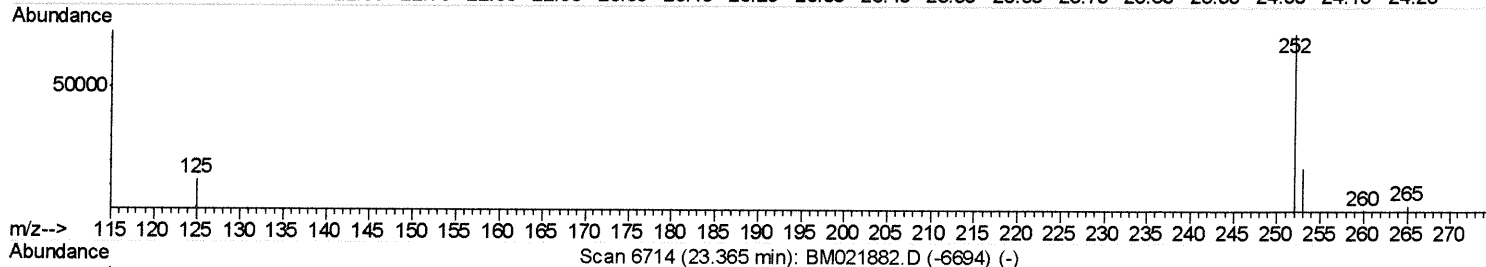
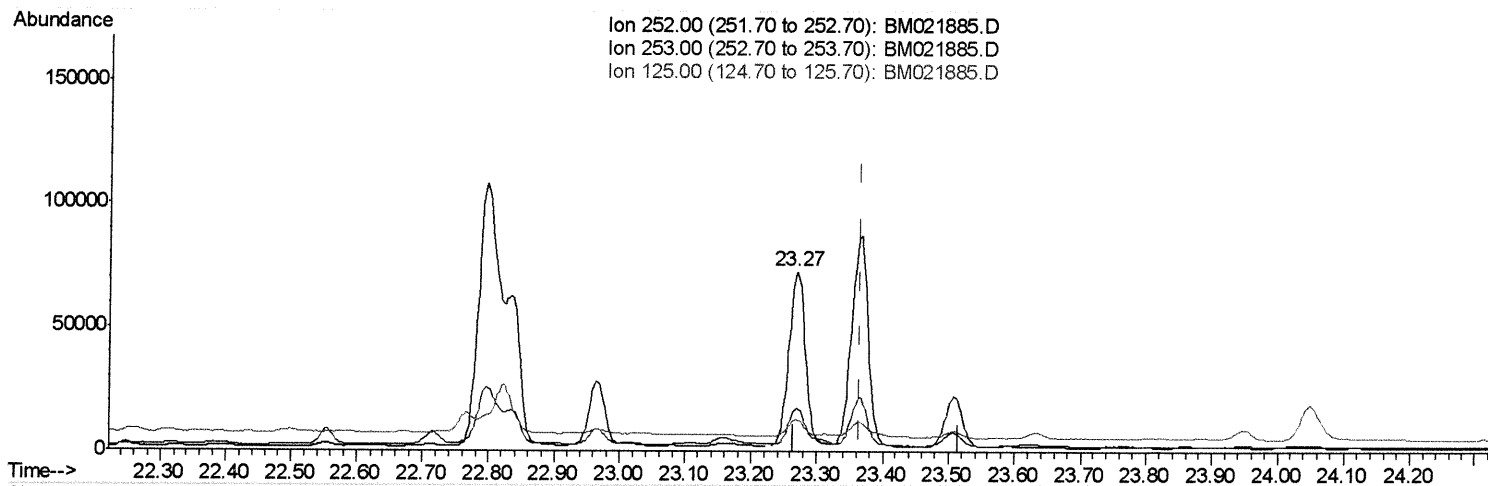
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(23) Benzo(a)pyrene (C)

23.268min (-0.097) 5.77ng/ul

response 124692

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 39.60 | 24.43# |
| 125.00 | 18.20 | 17.61  |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

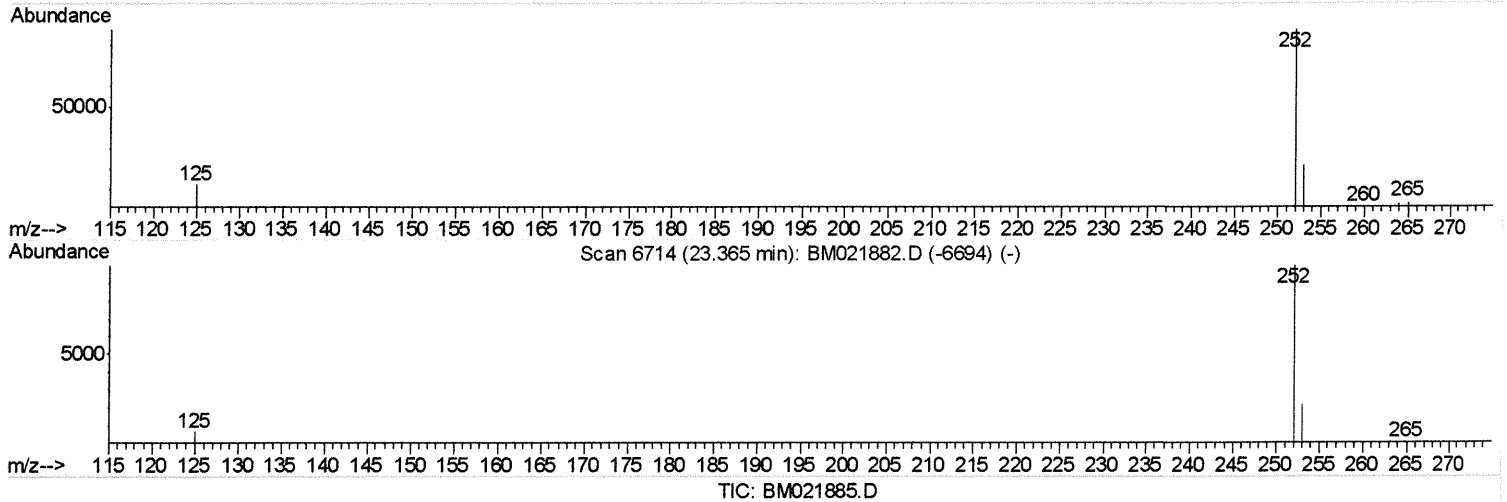
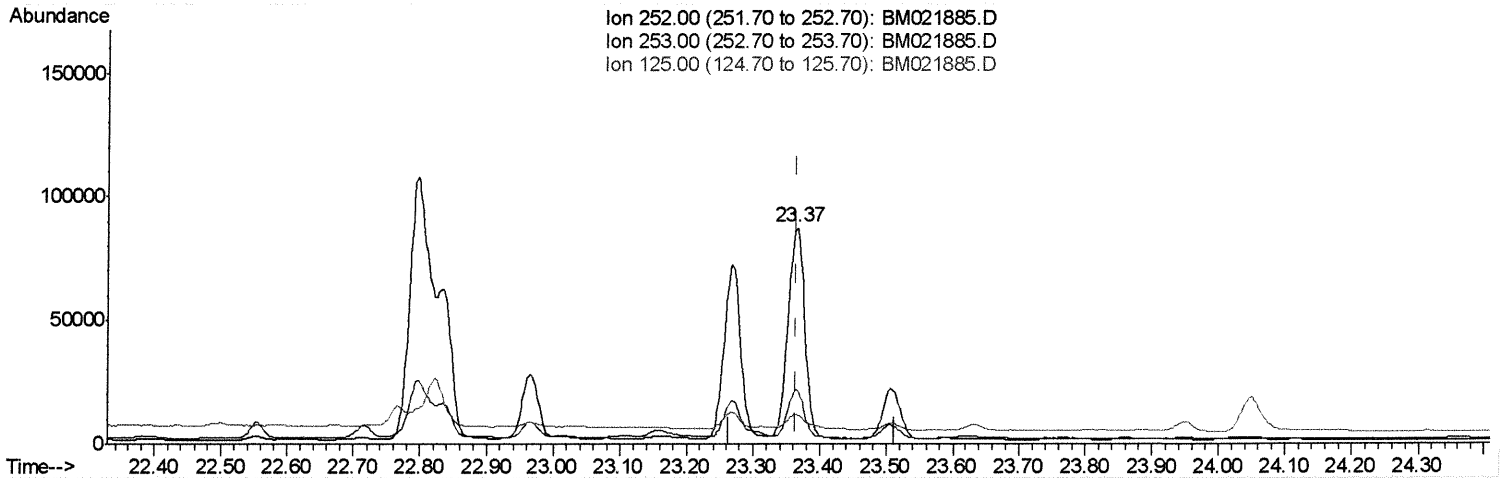
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(23) Benzo(a)pyrene (C)

23.365min (-0.000) 7.02ng/ul m

JU  
08/07/19

response 151705

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 39.60 | 24.71# |
| 125.00 | 18.20 | 13.65# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

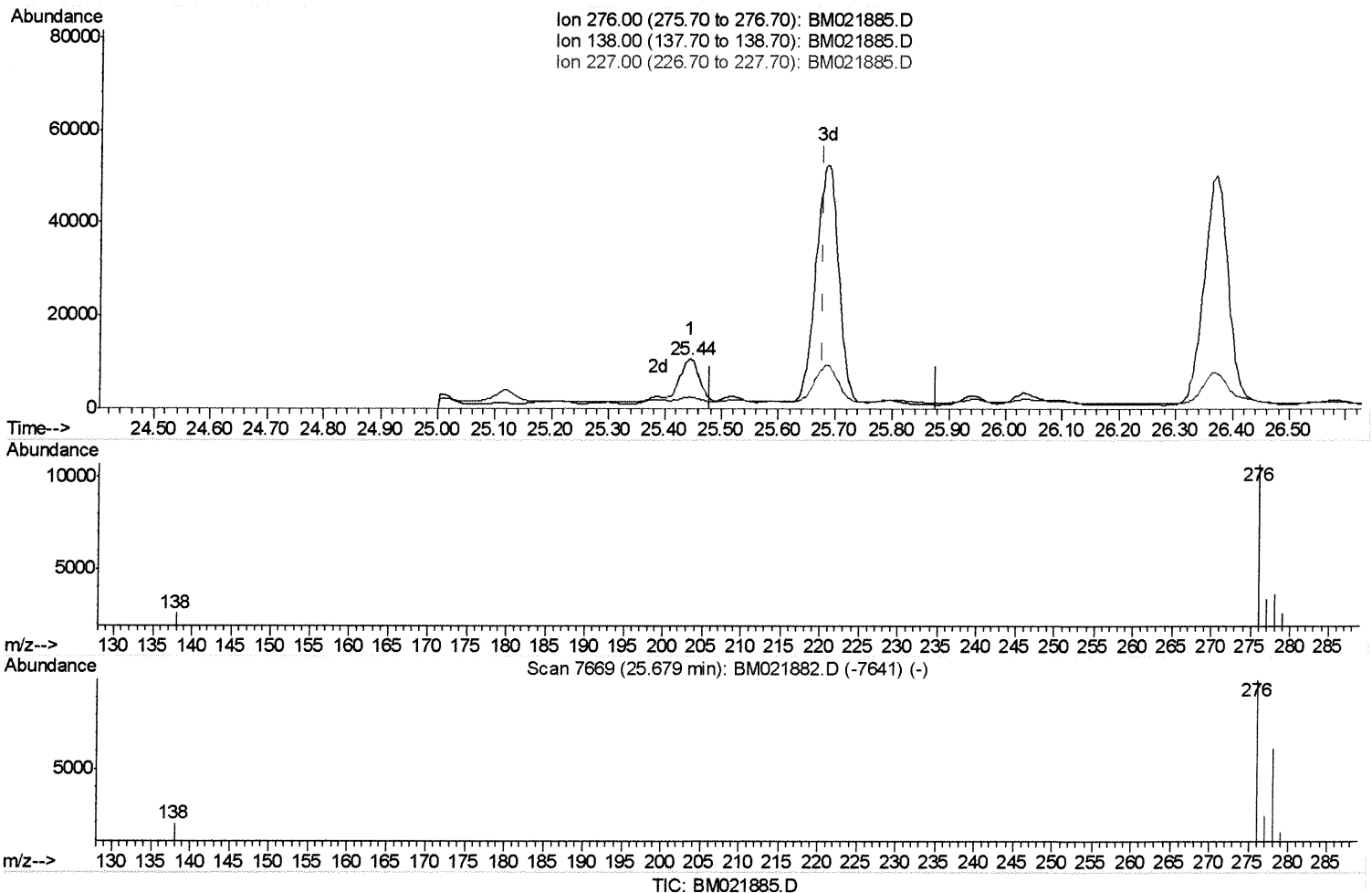
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampled :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(24) Indeno(1,2,3-cd)pyrene

25.444min (-0.235) 0.92ng/ul

response 23820

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 18.90 | 9.90# |
| 227.00 | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

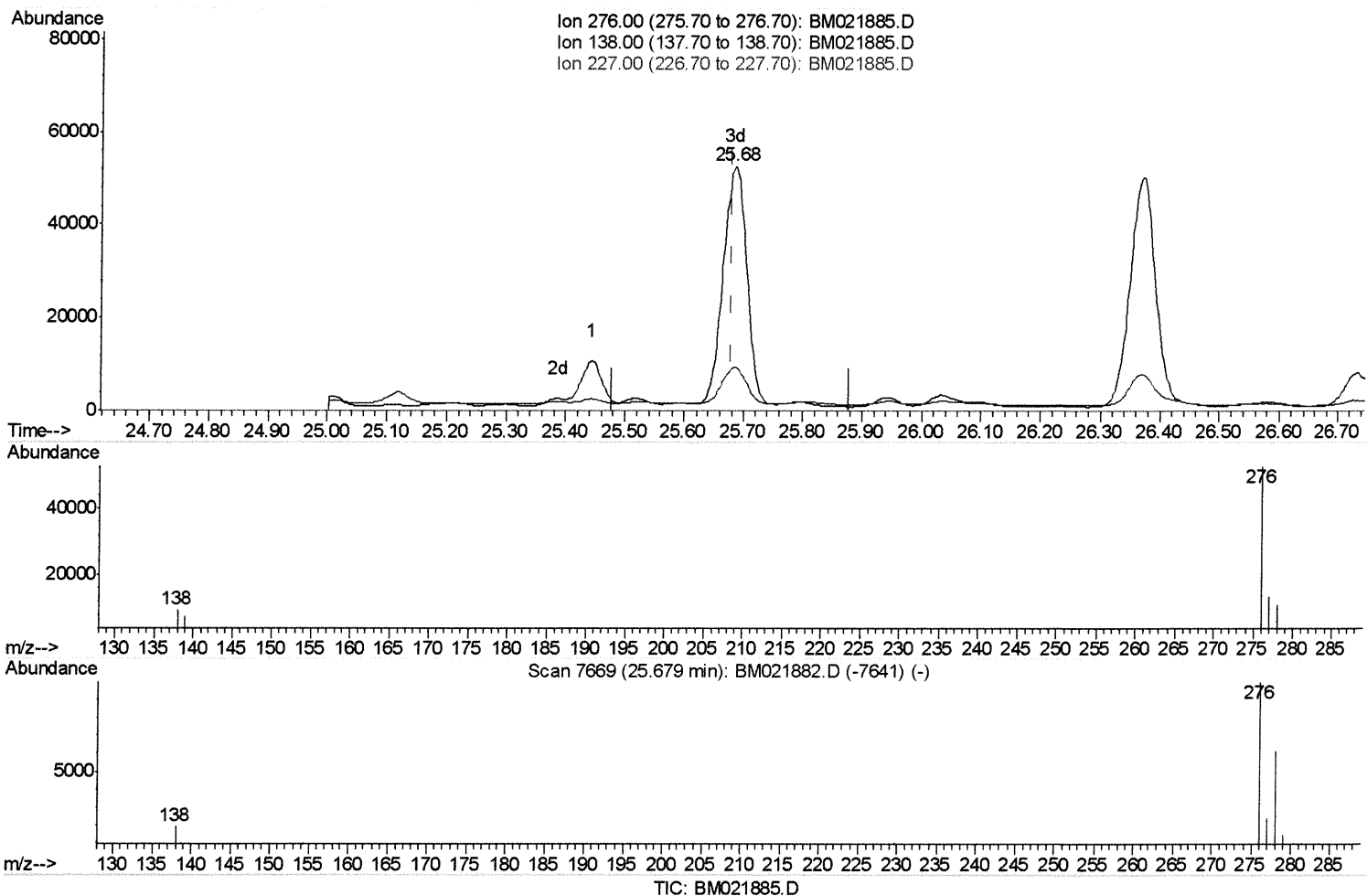
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(24) Indeno(1,2,3-cd)pyrene

25.684min (+0.005) 5.64ng/ul m

JU  
08/07/19

response 145362

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 18.90 | 1.62# |
| 227.00 | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

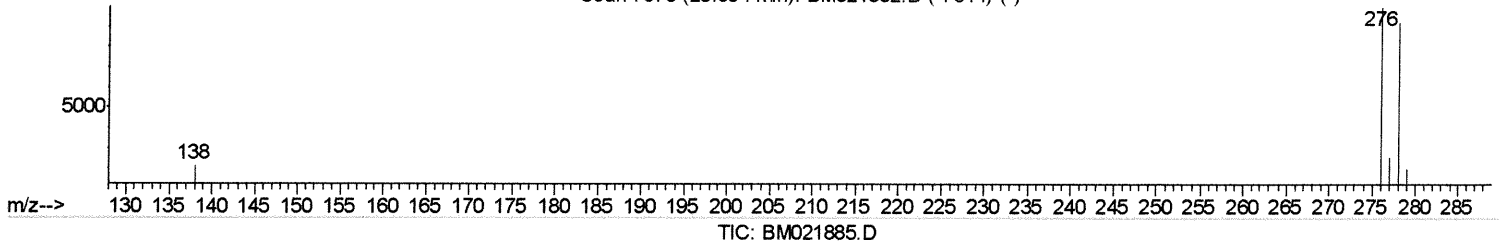
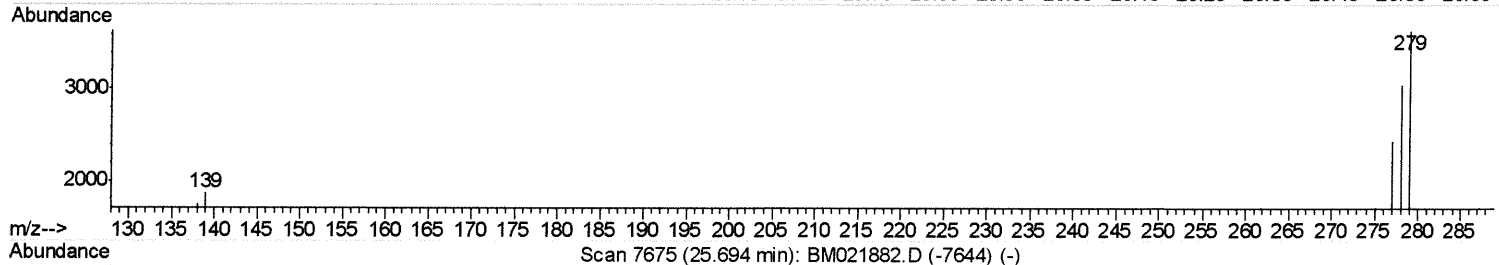
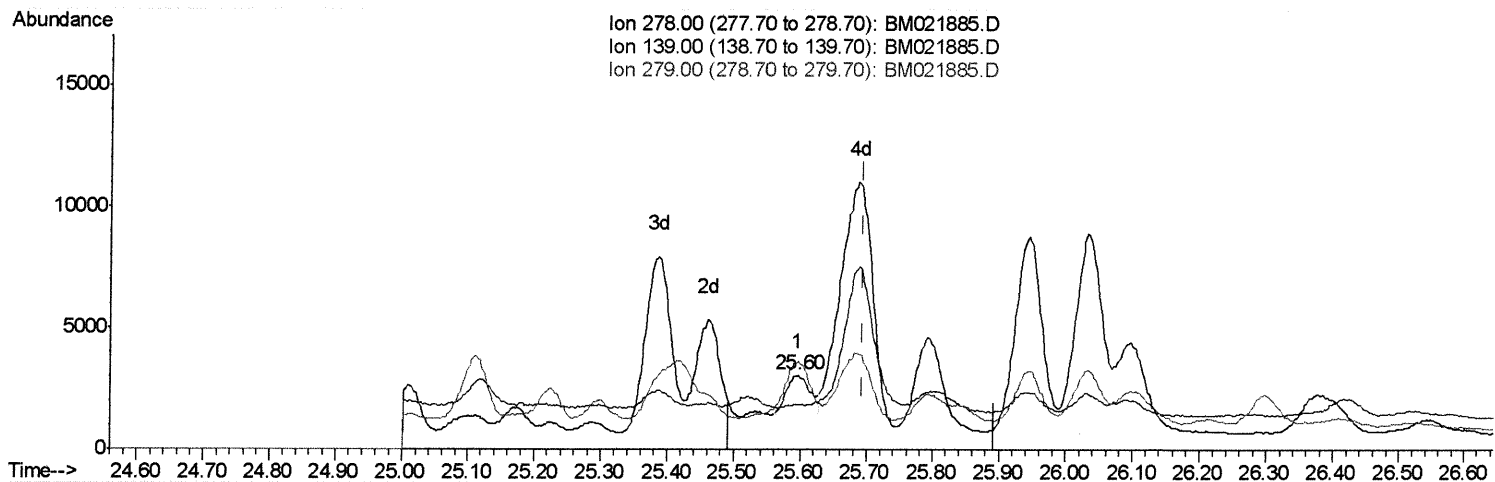
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(25) Dibenzo(a,h)anthracene

25.597min (-0.097) 0.20ng/ul

response 4139

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 278.00 | 100   | 100     |
| 139.00 | 17.70 | 60.81#  |
| 279.00 | 35.40 | 119.14# |
| 0.00   | 0.00  | 0.00    |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

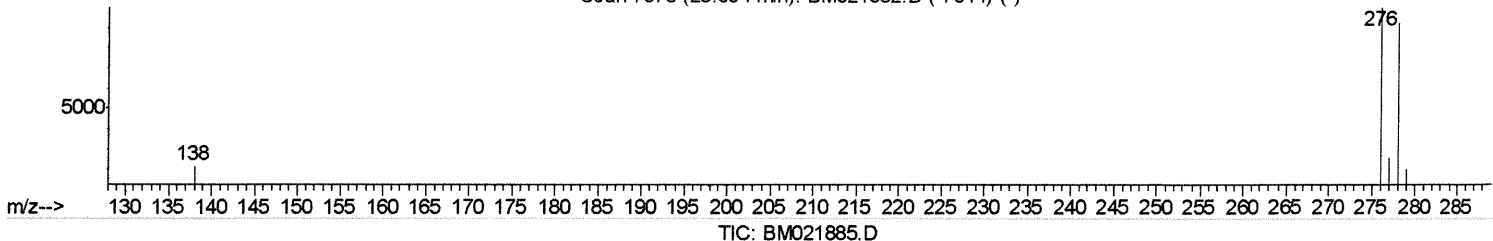
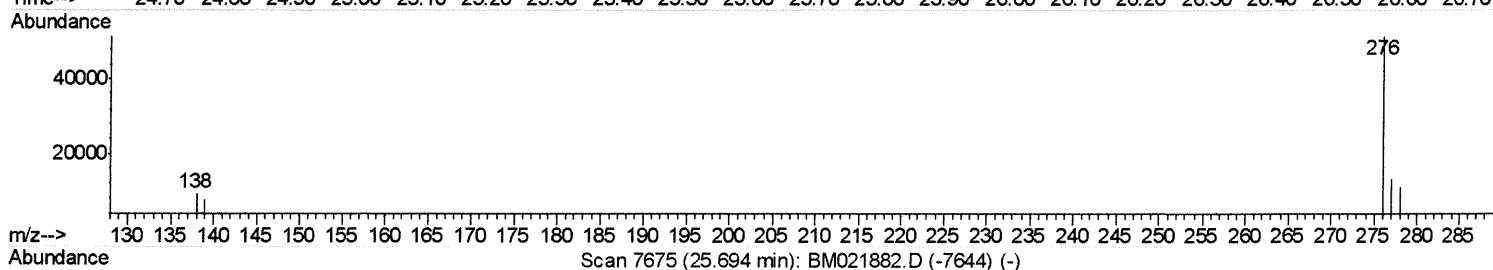
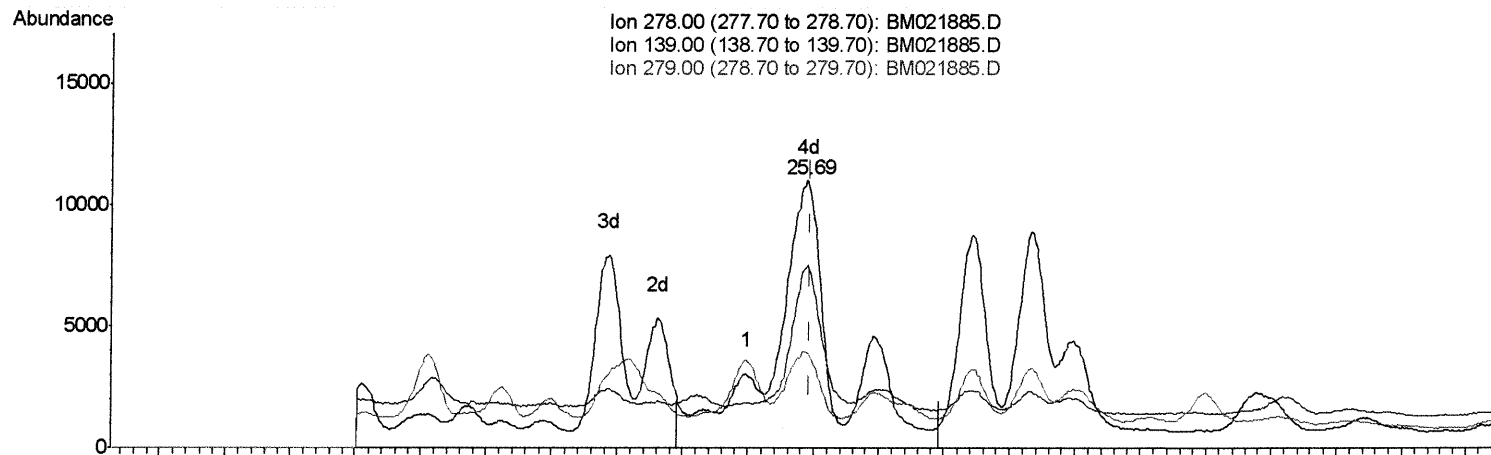
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(25) Dibenzo(a,h)anthracene

25.689min (-0.005) 1.71ng/ul m

JU  
08/07/19

response 35566

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 17.70 | 68.79# |
| 279.00 | 35.40 | 35.45  |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

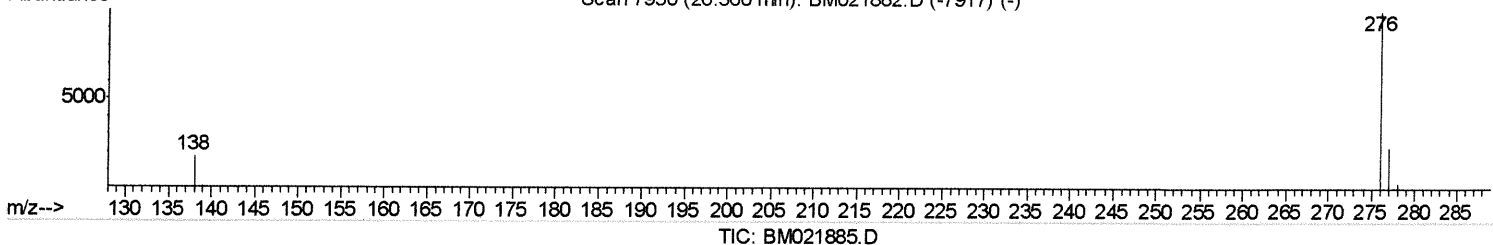
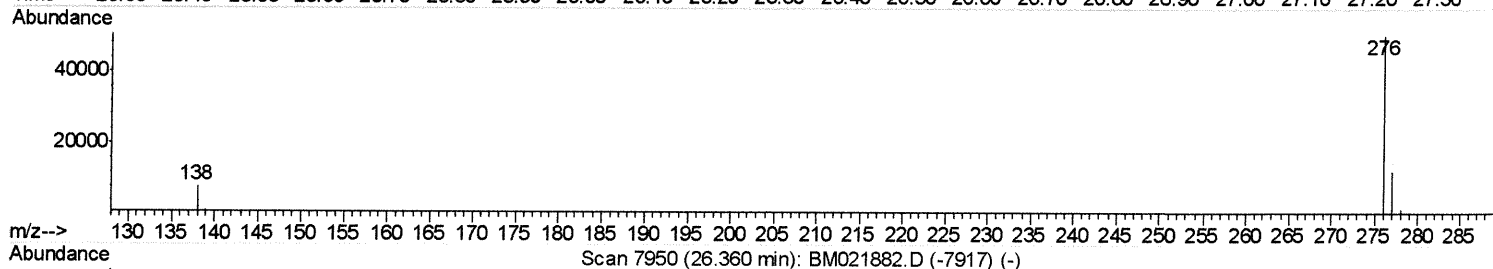
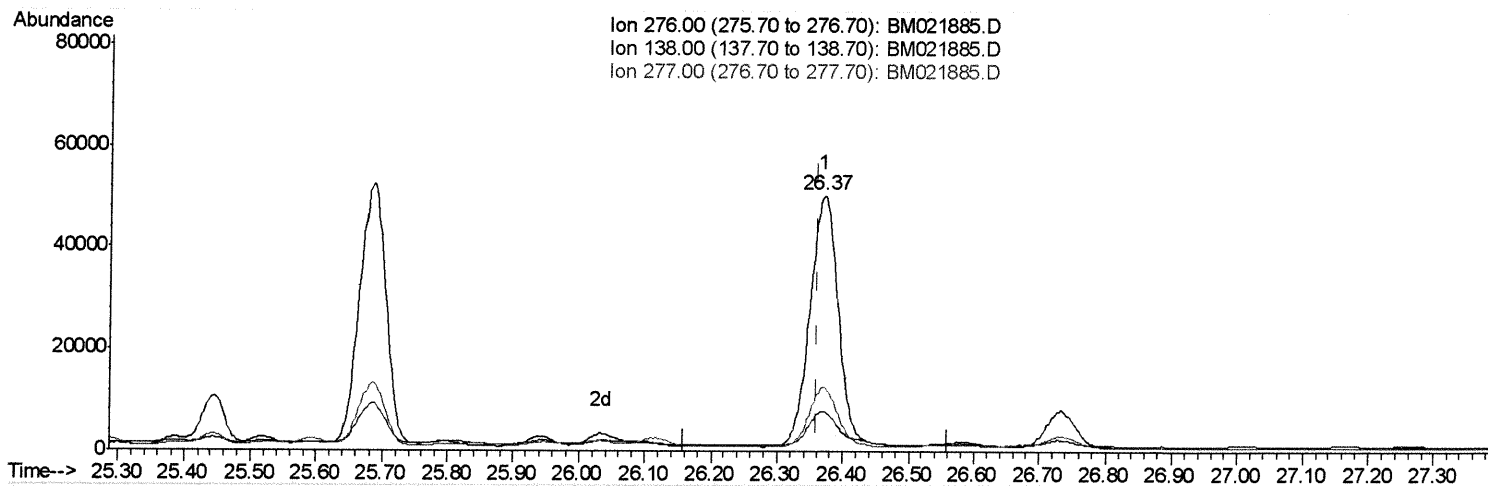
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(26) Benzo(g,h,i)perylene  
26.369min (+0.010) 5.37ng/ui  
response 124649

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 19.40 | 15.76 |
| 277.00 | 26.80 | 25.01 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
Quantitation Report (Qedit)

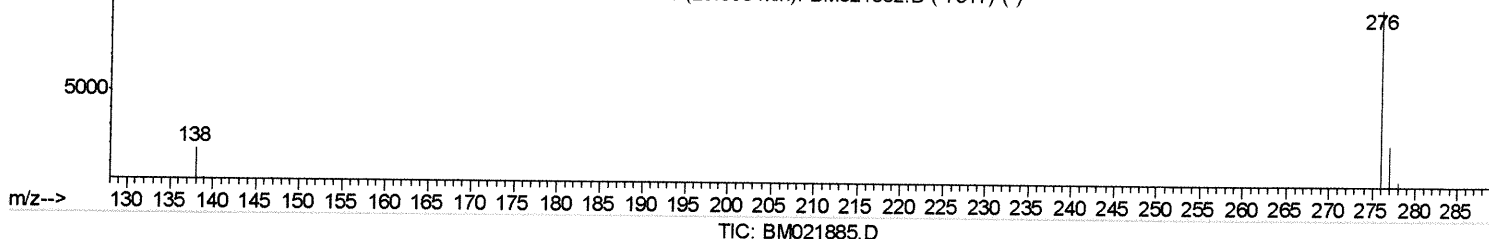
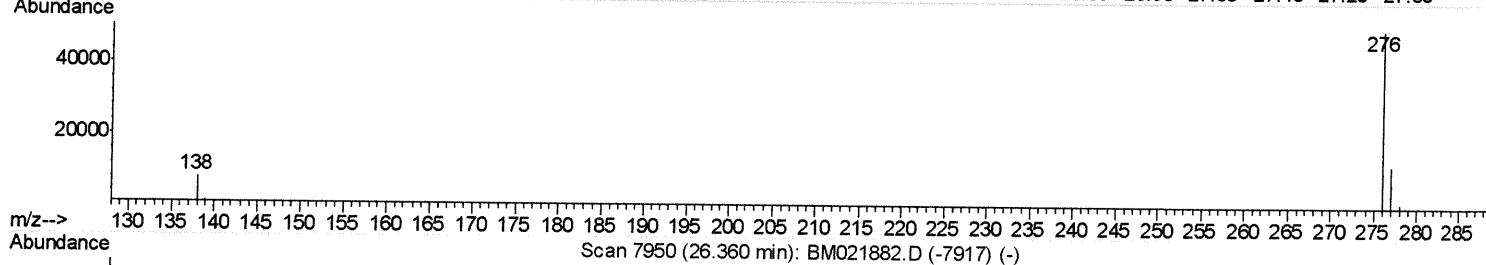
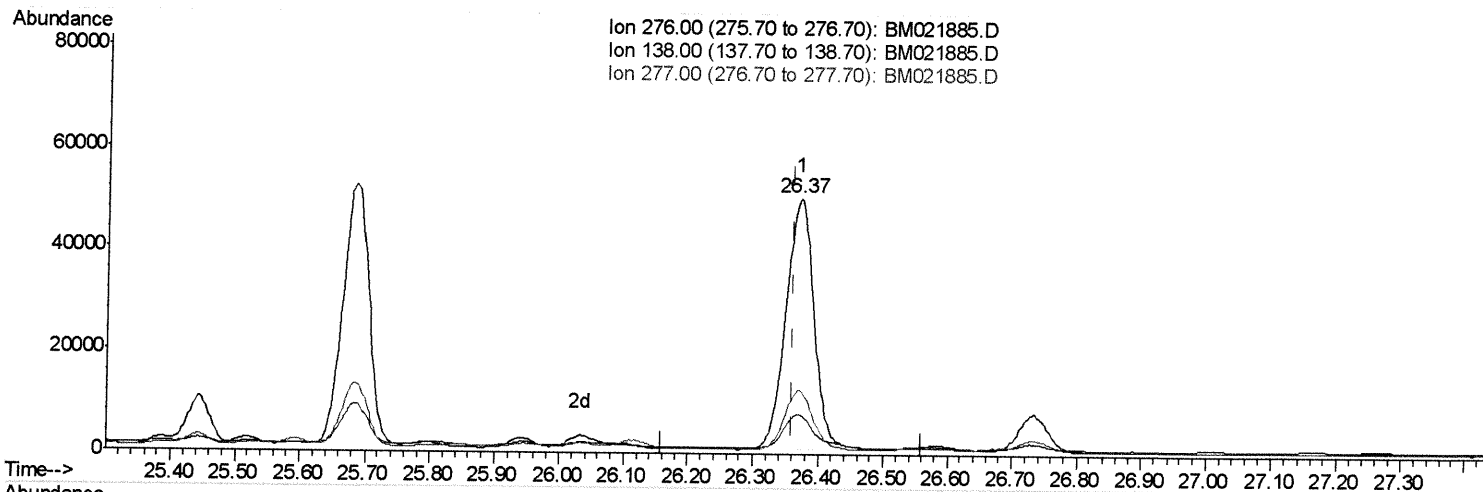
Data File : BM021885.D  
Acq On : 07 Aug 2019 08:03  
Operator : HP/JU  
Sample : K3893-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP18

Manual Integrations  
APPROVED

mohammad  
8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:57:30 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 08:28:11 2019  
Response via : Initial Calibration



(26) Benzo(g,h,i)perylene

26.369min (+0.010) 6.37ng/ul m

JU  
08/07/19

response 147880

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 19.40 | 15.76 |
| 277.00 | 26.80 | 25.01 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM080619\  
 Quantitation Report (QT Reviewed)  
 Data File : BM021885.D  
 Acq On : 07 Aug 2019 08:03  
 Operator : HP/JU  
 Sample : K3893-14  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BEP18

Manual Integrations  
 APPROVED

mohammad  
 8/7/2019 12:13:58 PM

Quant Time: Aug 07 08:59:16 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 08:28:11 2019  
 Response via : Initial Calibration

| Internal Standards           | R.T.  | QI  | on | Response  | Conc   | Units   | Dev (Min) |
|------------------------------|-------|-----|----|-----------|--------|---------|-----------|
| 1) 1,4-Dichlorobenzene-d4    | 7.63  | 152 |    | 942       | 0.40   | ng/ul   | 0.00      |
| 2) Naphthalene-d8            | 10.40 | 136 |    | 3725      | 0.40   | ng/ul   | -0.02     |
| 6) Acenaphthene-d10          | 14.28 | 164 |    | 2209      | 0.40   | ng/ul   | -0.01     |
| 10) Phenanthrene-d10         | 17.03 | 188 |    | 5562m →   | 0.40   | ng/ul → | -0.02     |
| 16) Chrysene-d12             | 21.24 | 240 |    | 5821m →   | 0.40   | ng/ul → | 0.00      |
| 20) Perylene-d12             | 23.46 | 264 |    | 6299m →   | 0.40   | ng/ul → | 0.00      |
| System Monitoring Compounds  |       |     |    |           |        |         |           |
| 4) 2-Methylnaphthalene-d10   | 12.00 | 152 |    | 1279      | 0.21   | ng/ul   | -0.03     |
| 14) Fluoranthene-d10         | 19.07 | 212 |    | 4310m →   | 0.23   | ng/ul → | -0.01     |
| Target Compounds             |       |     |    |           |        |         |           |
|                              |       |     |    |           |        | Qvalue  |           |
| 3) Naphthalene               | 10.46 | 128 |    | 8094      | 0.769  | ng/ul   | 94        |
| 5) 2-Methylnaphthalene       | 12.07 | 142 |    | 5499      | 0.784  | ng/ul   | 99        |
| 7) Acenaphthylene            | 14.00 | 152 |    | 24861     | 2.413  | ng/ul # | 81        |
| 8) Acenaphthene              | 14.34 | 153 |    | 3741      | 0.444  | ng/ul   | 97        |
| 9) Fluorene                  | 15.33 | 166 |    | 5498      | 0.587  | ng/ul   | 99        |
| 11) Pentachlorophenol        | 16.70 | 266 |    | 149m →    | 0.145  | ng/ul → |           |
| 12) Phenanthrene             | 17.08 | 178 |    | 85487m →  | 5.282  | ng/ul → |           |
| 13) Anthracene               | 17.17 | 178 |    | 28719m →  | 2.080  | ng/ul → |           |
| 15) Fluoranthene             | 19.10 | 202 |    | 212223m → | 9.789  | ng/ul → |           |
| 17) Pyrene                   | 19.47 | 202 |    | 180169    | 7.532  | ng/ul   | 96        |
| 18) Benzo (a) anthracene     | 21.22 | 228 |    | 124925    | 6.000  | ng/ul   | 96        |
| 19) Chrysene                 | 21.28 | 228 |    | 134150    | 5.010  | ng/ul   | 96        |
| 21) Benzo (b) fluoranthene   | 22.80 | 252 |    | 235629m → | 11.093 | ng/ul → |           |
| 22) Benzo (k) fluoranthene   | 22.83 | 252 |    | 90951m →  | 3.784  | ng/ul → |           |
| 23) Benzo (a) pyrene         | 23.37 | 252 |    | 151705m → | 7.023  | ng/ul → |           |
| 24) Indeno (1,2,3-cd) pyrene | 25.68 | 276 |    | 145362m → | 5.636  | ng/ul → |           |
| 25) Dibenzo (a,h) anthracene | 25.69 | 278 |    | 35566m →  | 1.706  | ng/ul → |           |
| 26) Benzo (g,h,i) perylene   | 26.37 | 276 |    | 147880m → | 6.369  | ng/ul → |           |

(#) = qualifier out of range (m) = manual integration (+) = signals summed