

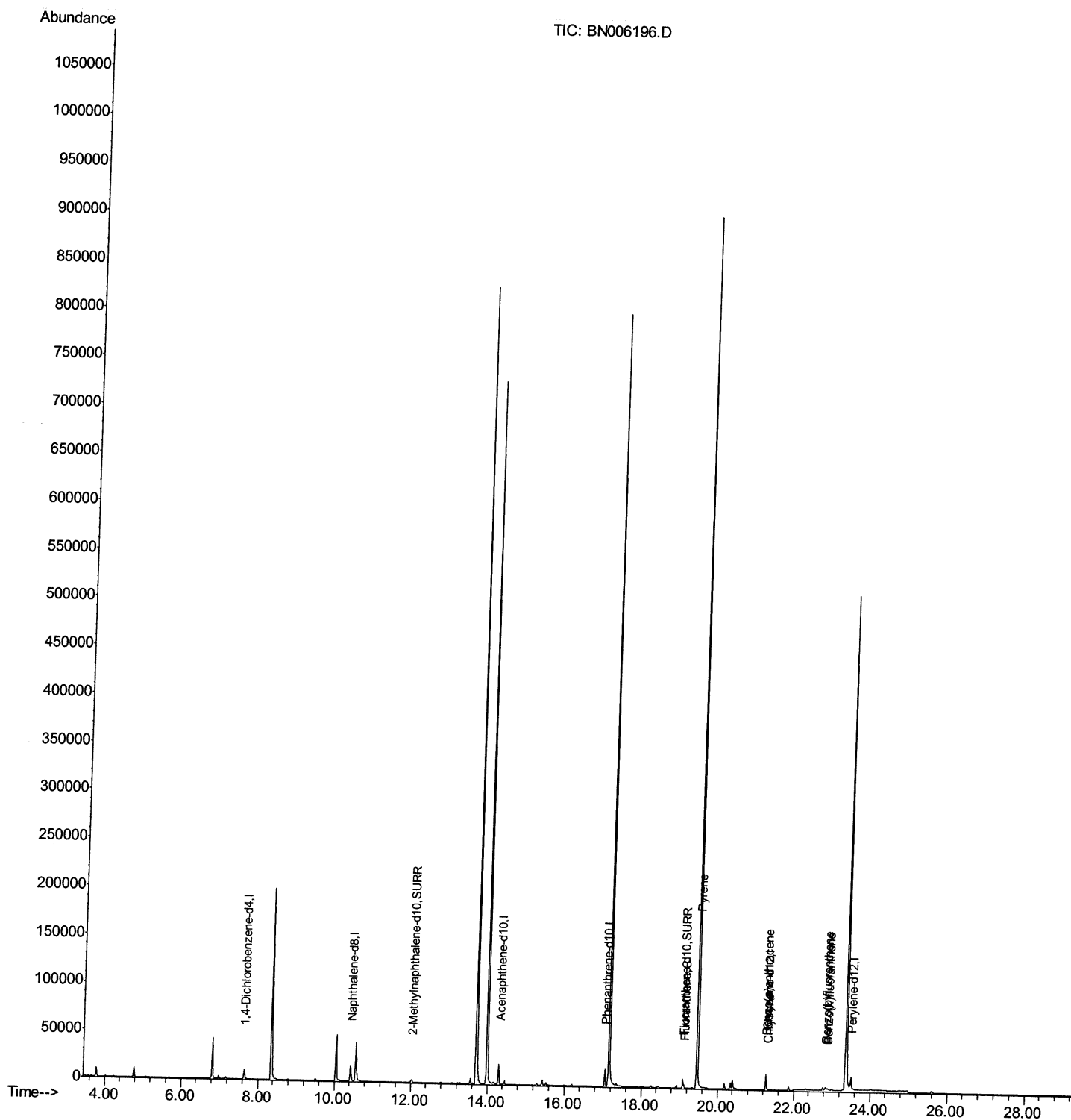
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (QT Reviewed)  
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:09:50 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN060819\

Data File : BN006196.D

Acq On : 08 Jun 2019 17:56

Operator : JU/SJ

Sample : K3016-18

Misc :

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 12 05:38:18 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN053019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sun Jun 09 05:10:30 2019

Response via : Initial Calibration

Instrument :

BNA\_N

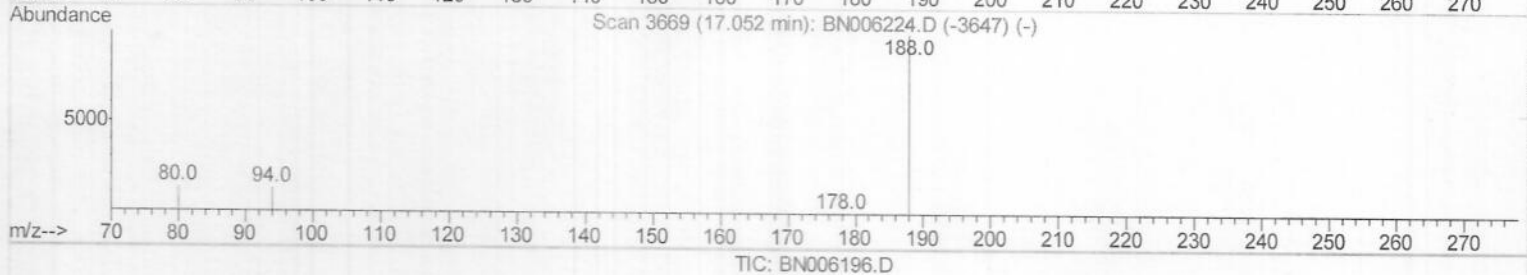
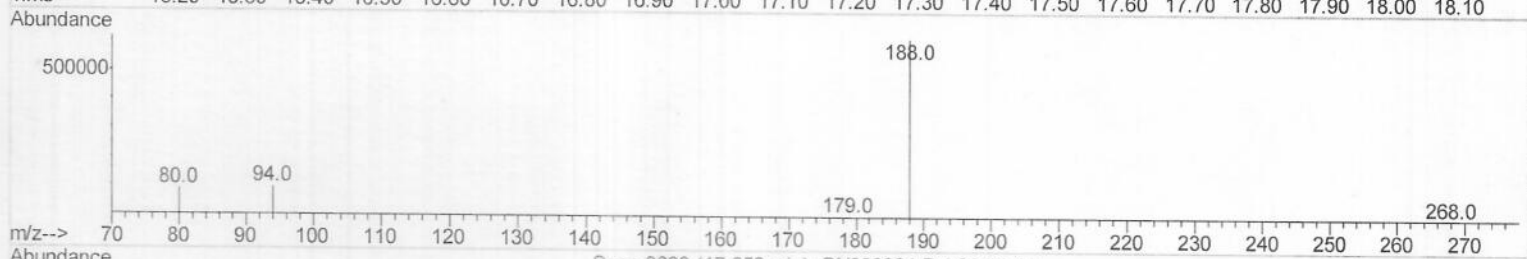
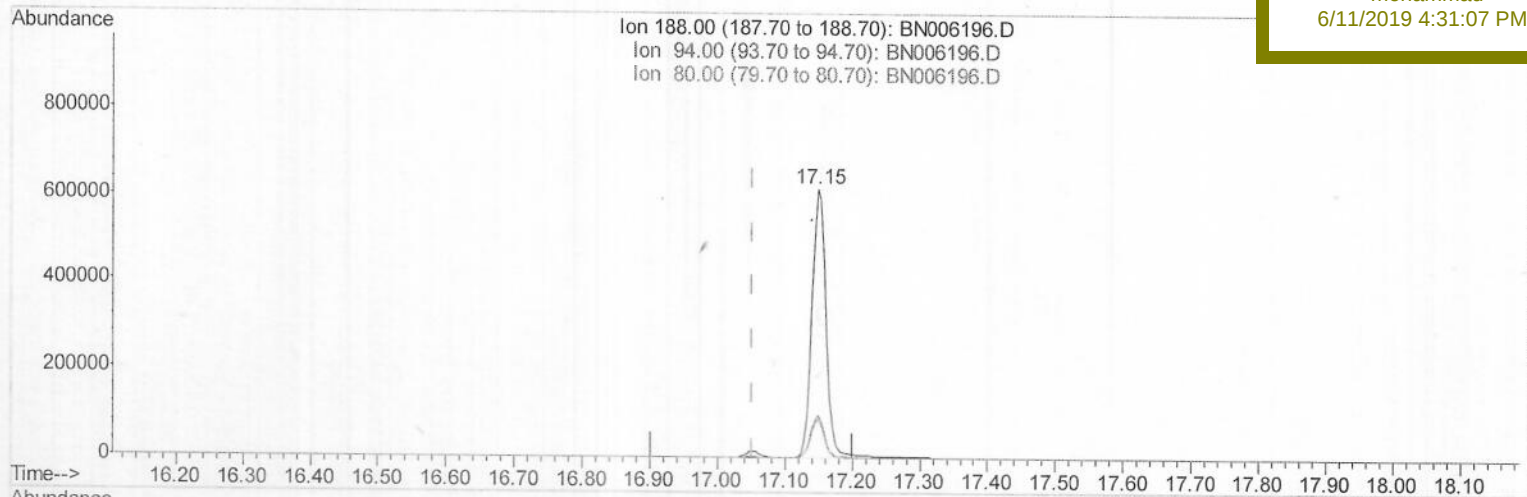
ClientSampleId :

A51D5

Manual Integrations  
APPROVED

mohammad

6/11/2019 4:31:07 PM



(10) Phenanthrene-d10 (I)

17.150min (+0.097) 0.40ng/ul

response 866708

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 188.00 | 100   | 100    |
| 94.00  | 13.00 | 15.65# |
| 80.00  | 13.60 | 14.14  |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

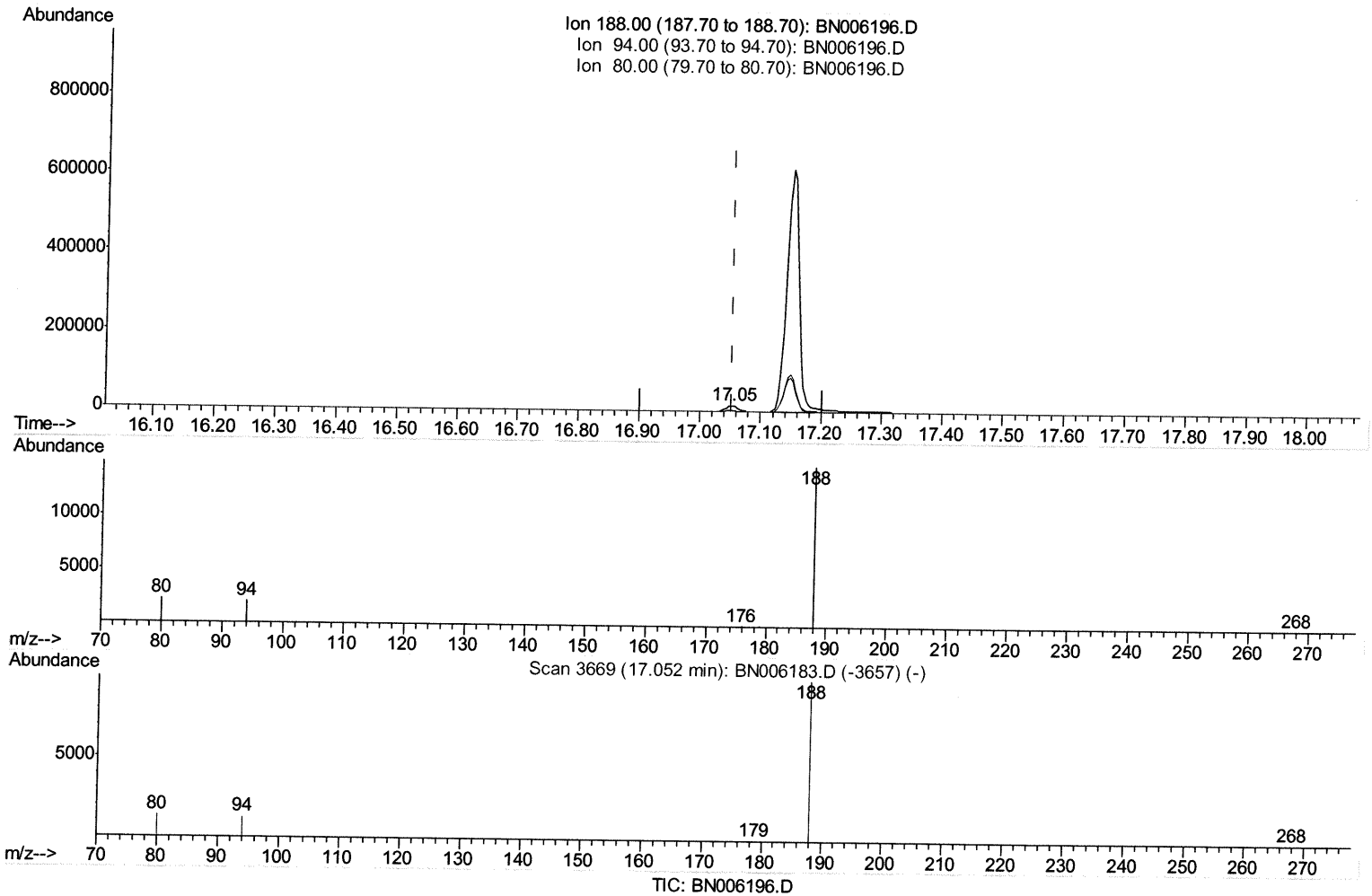
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 04:24:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.052min (0.000) 0.40ng/ul m

JU  
06/10/19

response 21693

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 13.00 | 13.77 |
| 80.00  | 13.60 | 15.23 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

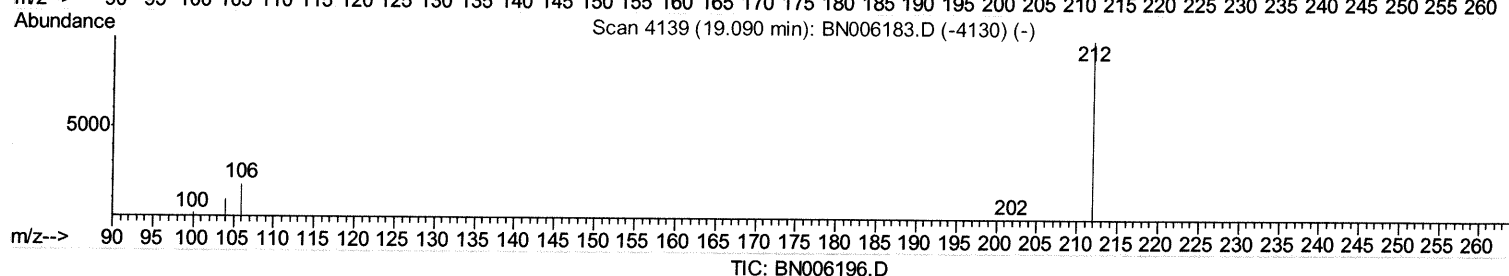
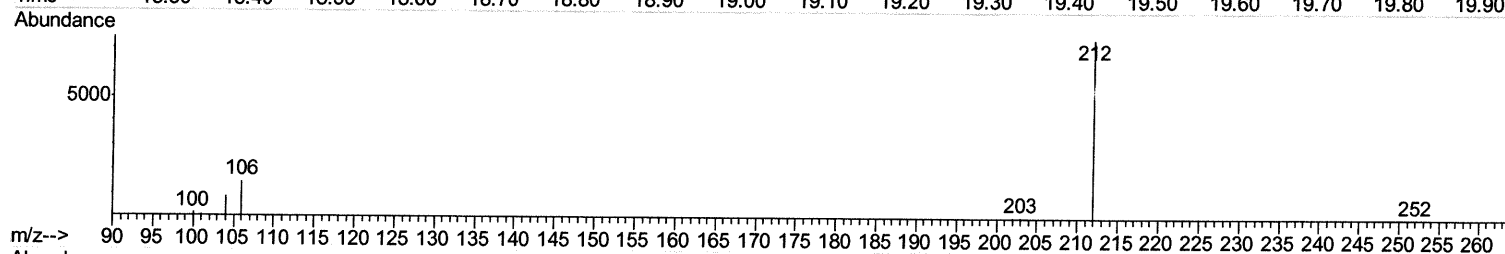
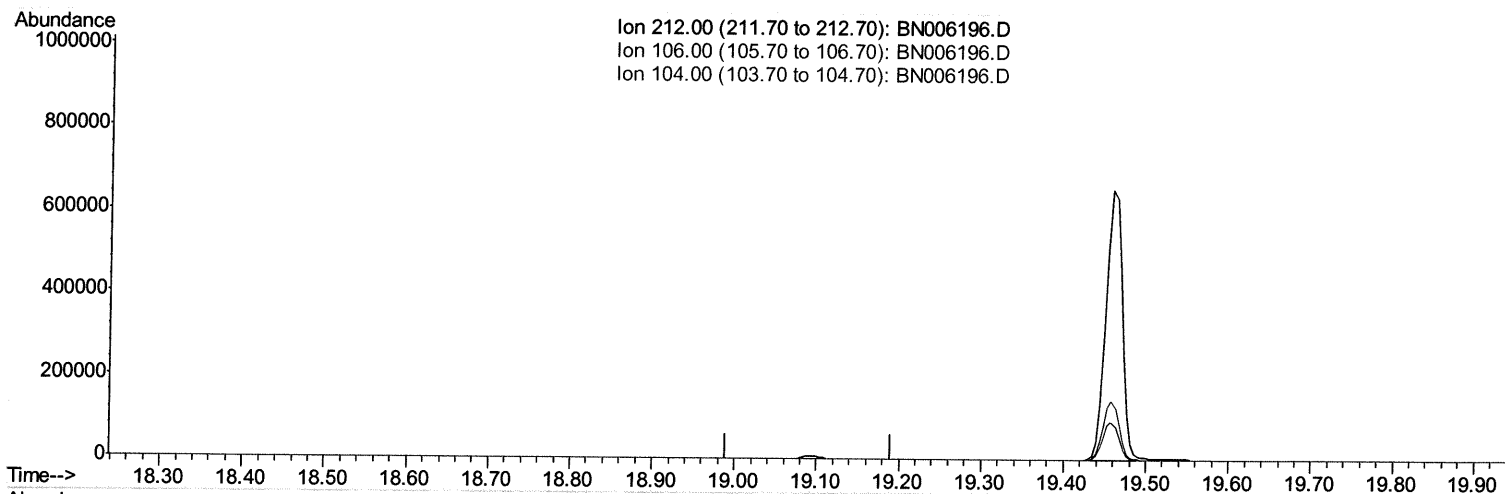
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:05:42 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.090min (-19.090) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 212.00 | 100   | 0.00  |
| 106.00 | 18.10 | 0.00# |
| 104.00 | 9.90  | 0.00# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

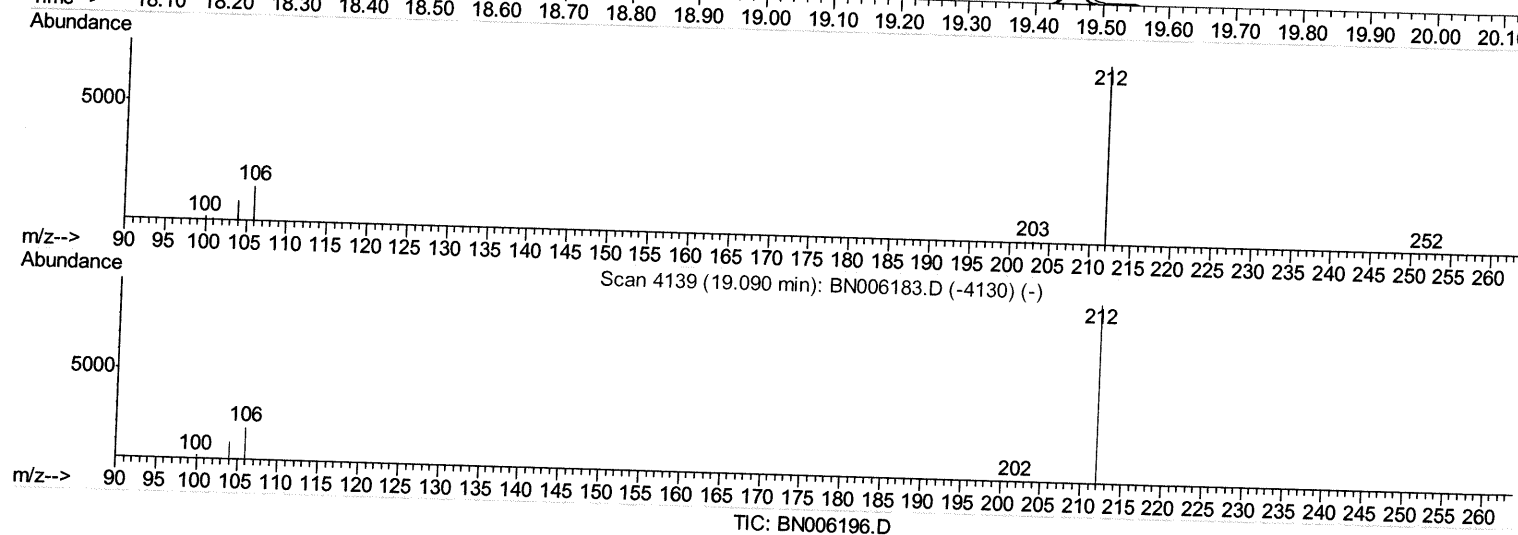
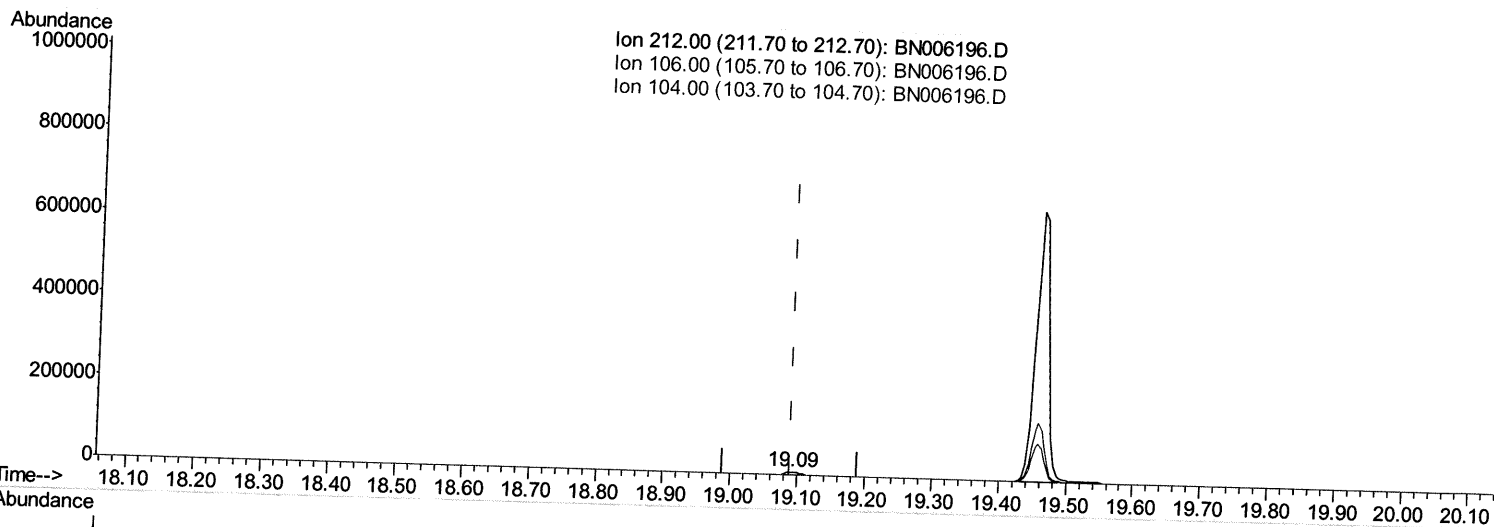
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:05:42 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.090min (+0.000) 0.18ng/ul m

response 10736

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 212.00 | 100   | 100   |
| 106.00 | 18.10 | 0.00# |
| 104.00 | 9.90  | 0.00# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

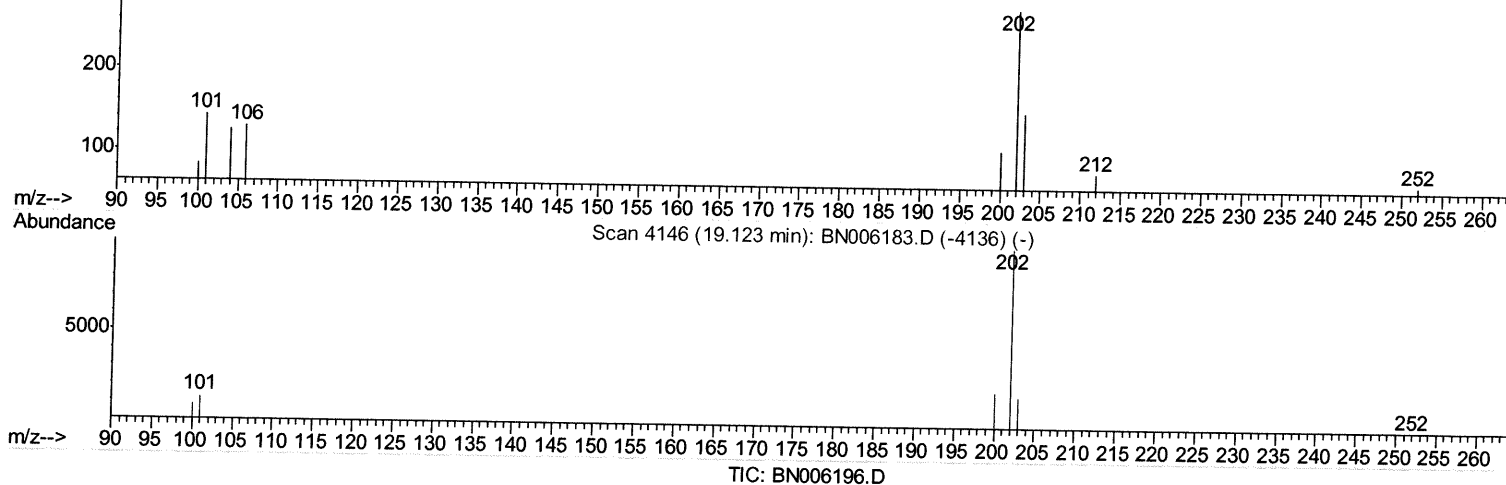
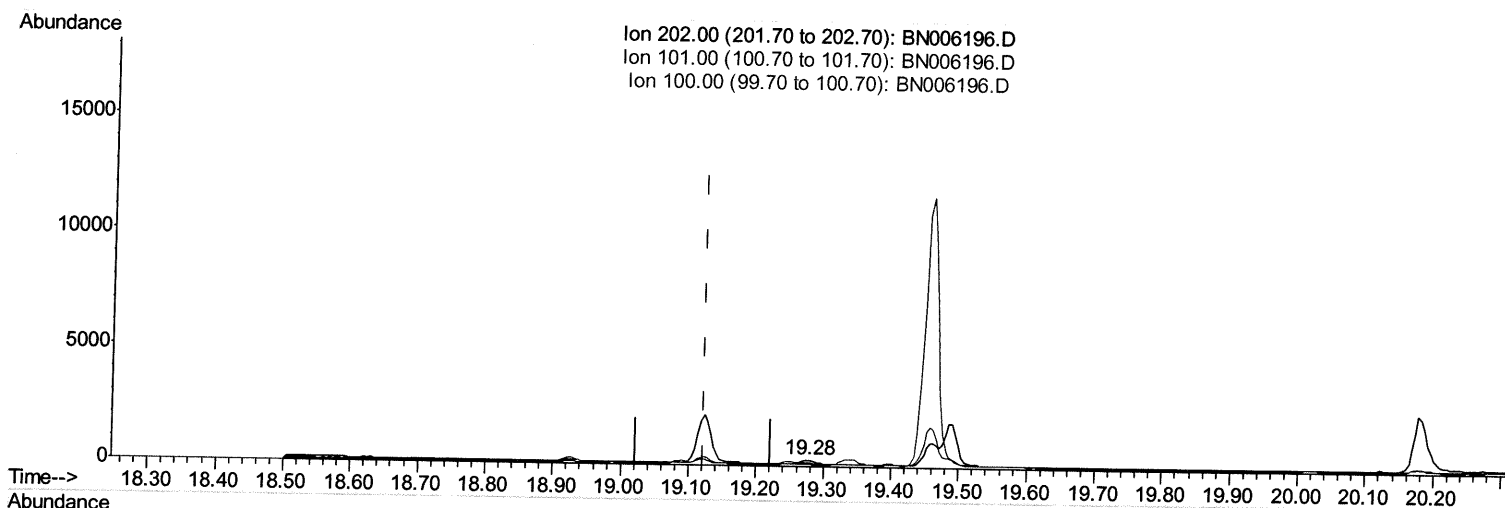
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:07:09 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(15) Fluoranthene (C)

19.276min (+0.153) 0.00ng/ul

response 287

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 12.10 | 50.89# |
| 100.00 | 8.70  | 29.54# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

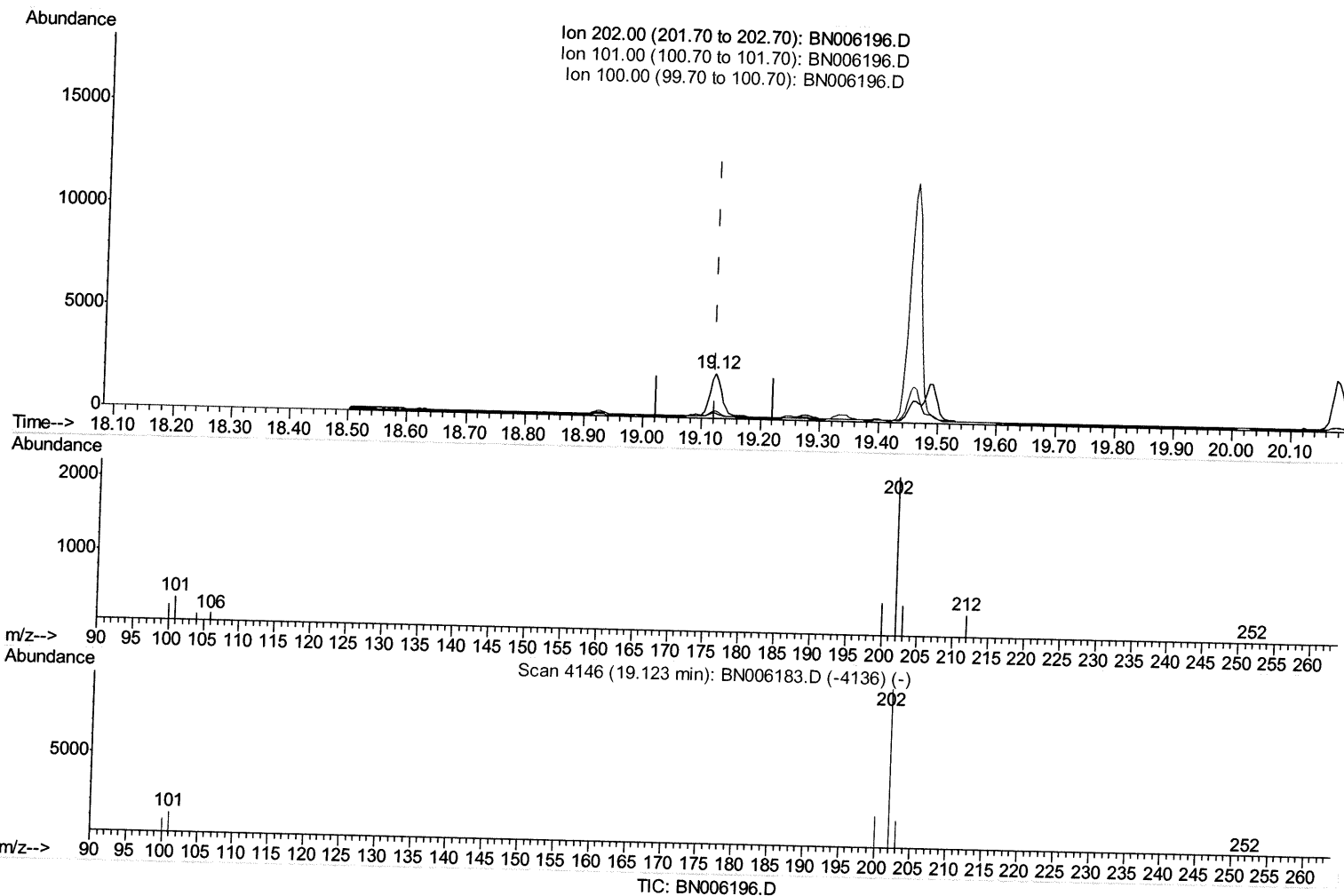
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampled :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:07:09 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(15) Fluoranthene (C)

19.123min (0.000) 0.04ng/ul m *JU*  
*06/10/19*

response 3058

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 202.00 | 100   | 100   |
| 101.00 | 12.10 | 16.97 |
| 100.00 | 8.70  | 11.97 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

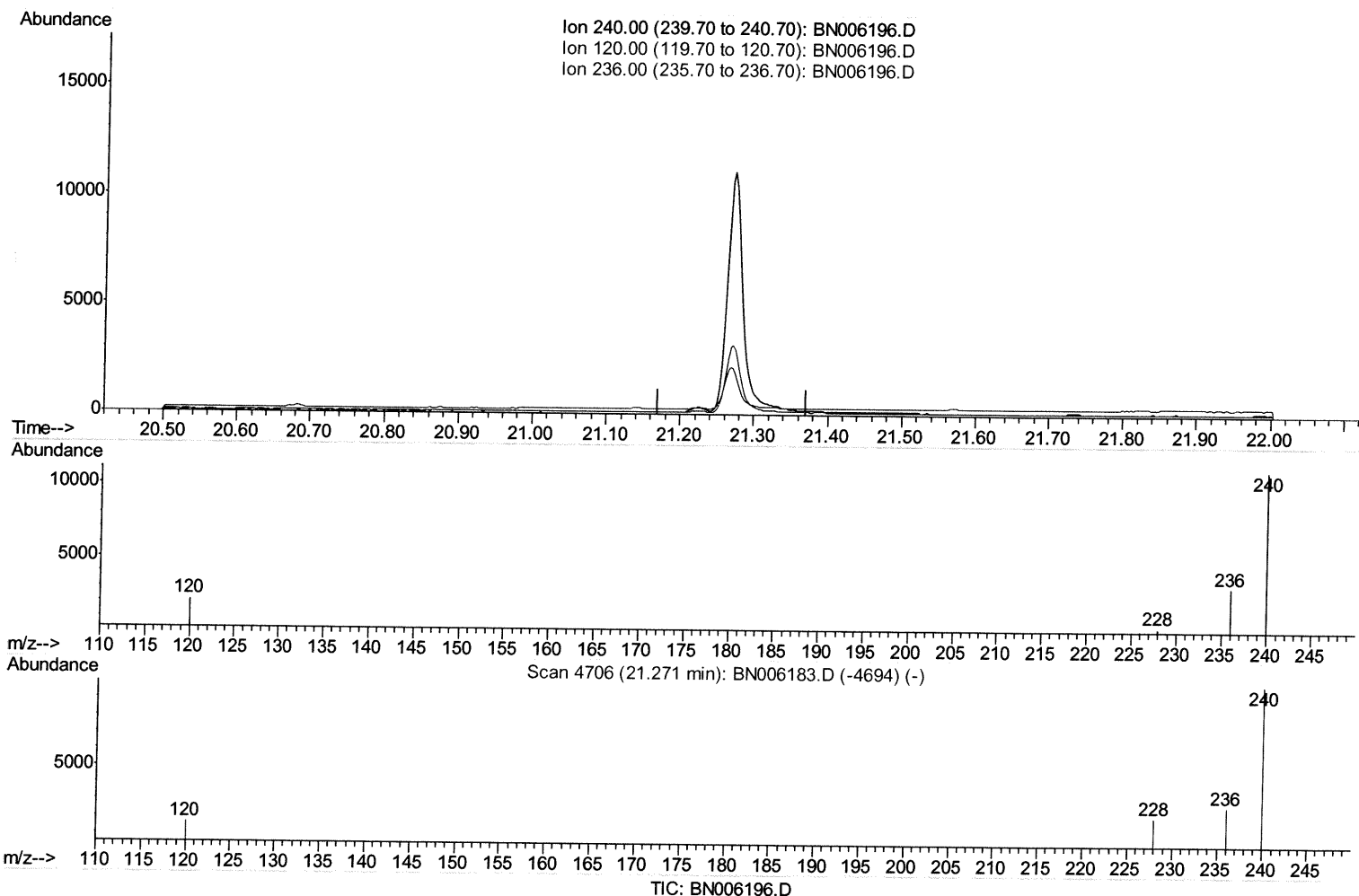
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:07:09 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.271min (-21.271) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 240.00 | 100   | 0.00  |
| 120.00 | 20.10 | 0.00# |
| 236.00 | 30.10 | 0.00# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

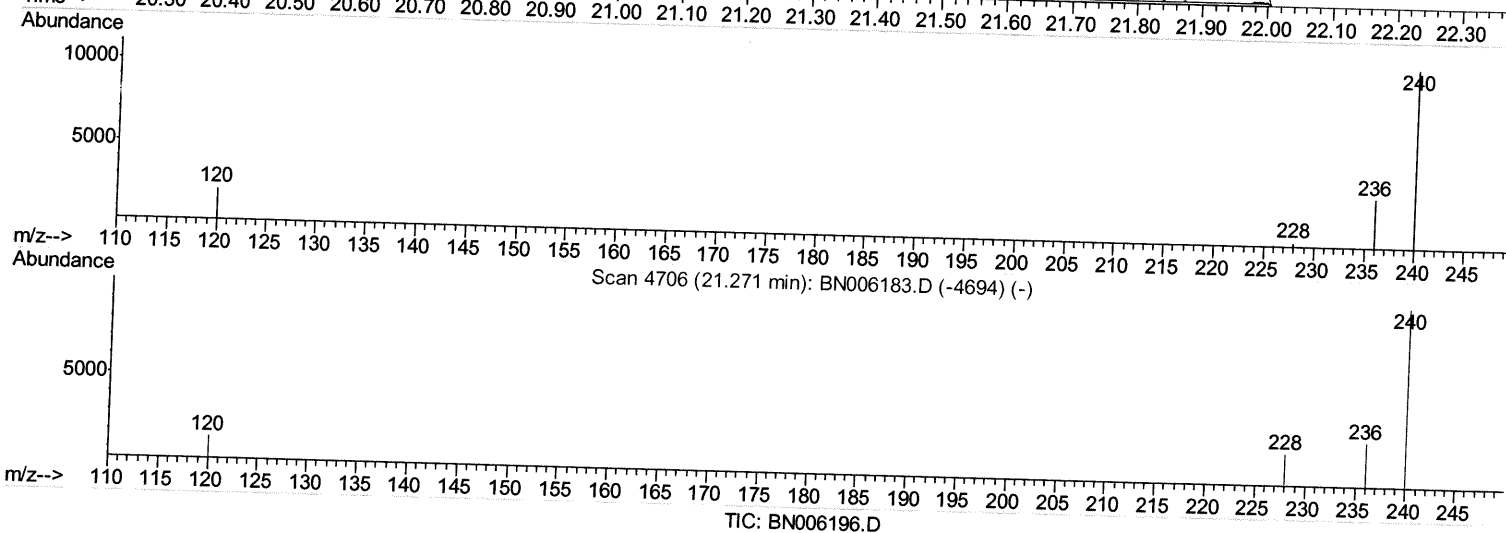
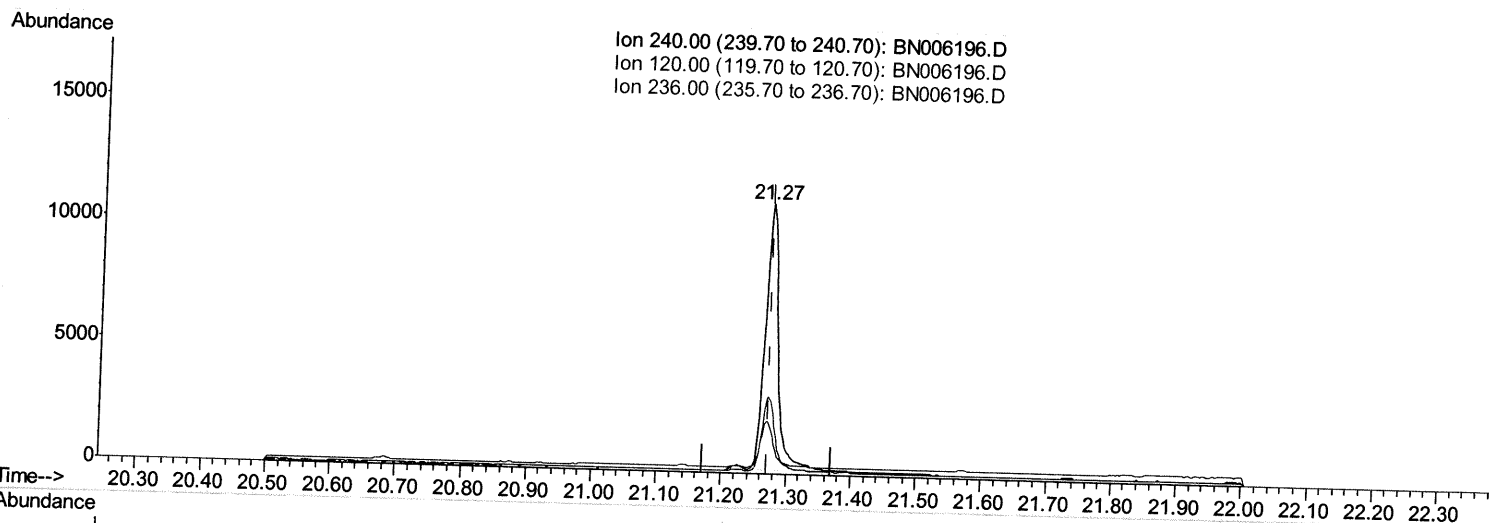
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampled :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:07:09 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.271min (+0.000) 0.40ng/ul m <sup>JU</sup> 06/10/19

response 16068

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 240.00 | 100   | 100   |
| 120.00 | 20.10 | 19.09 |
| 236.00 | 30.10 | 28.62 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

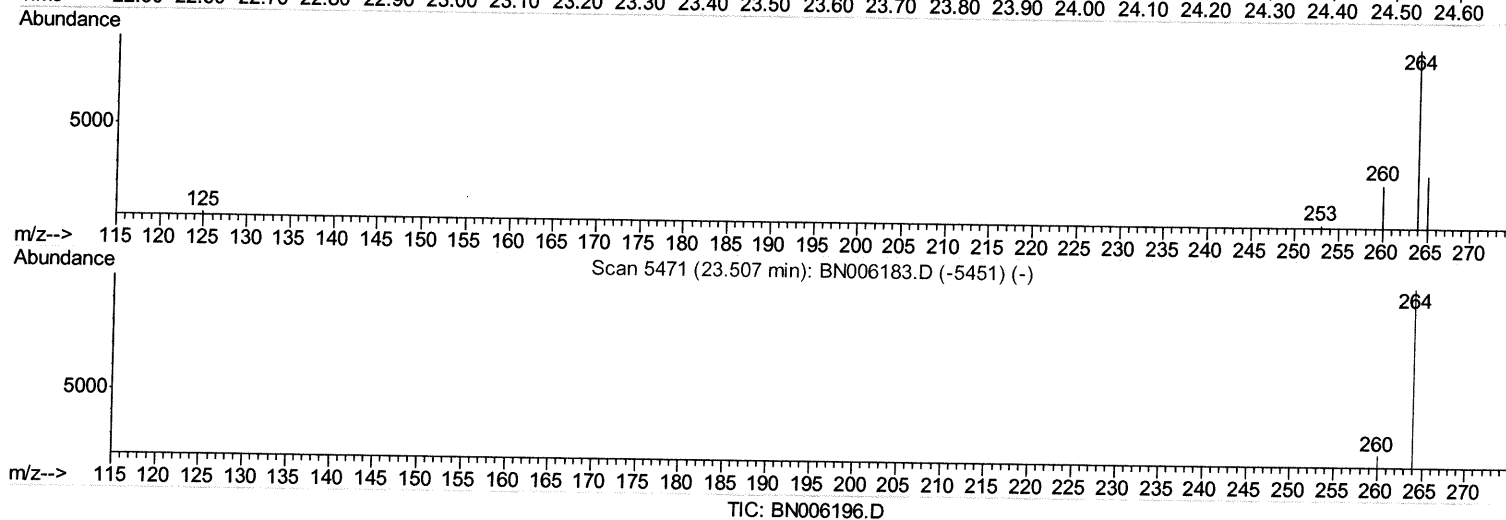
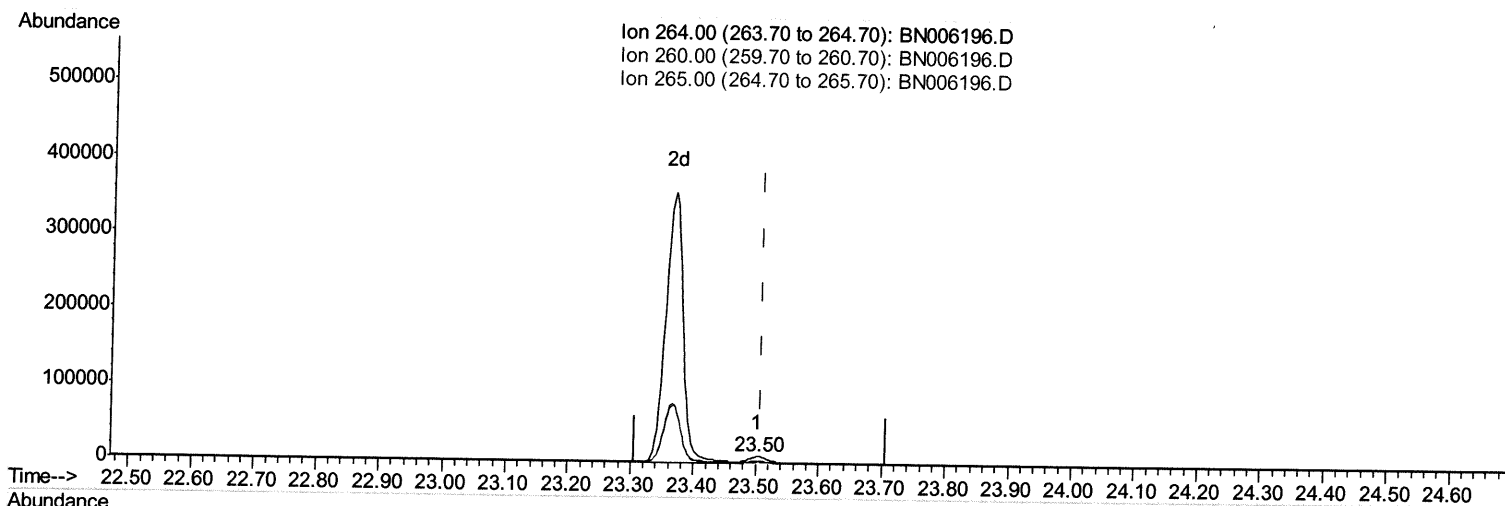
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:08:06 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(20) Perylene-d12 (I)

23.501min (-0.006) 0.40ng/ul

response 23586

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 264.00 | 100   | 100    |
| 260.00 | 29.20 | 26.26  |
| 265.00 | 44.70 | 31.53# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

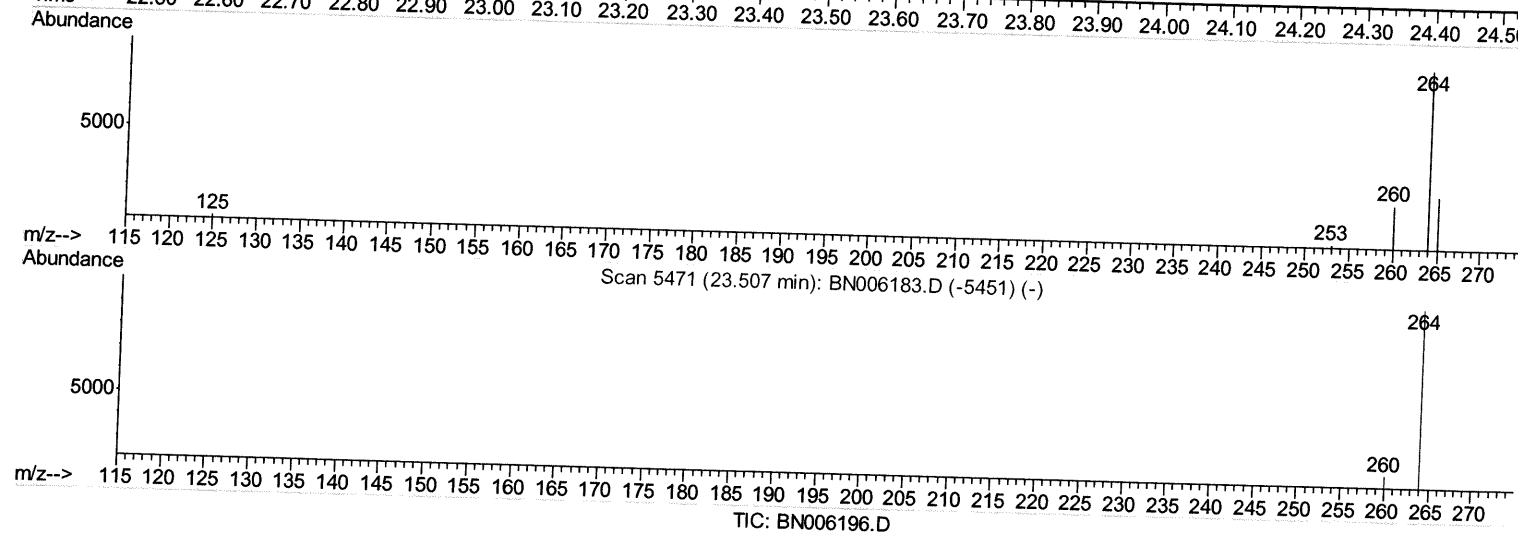
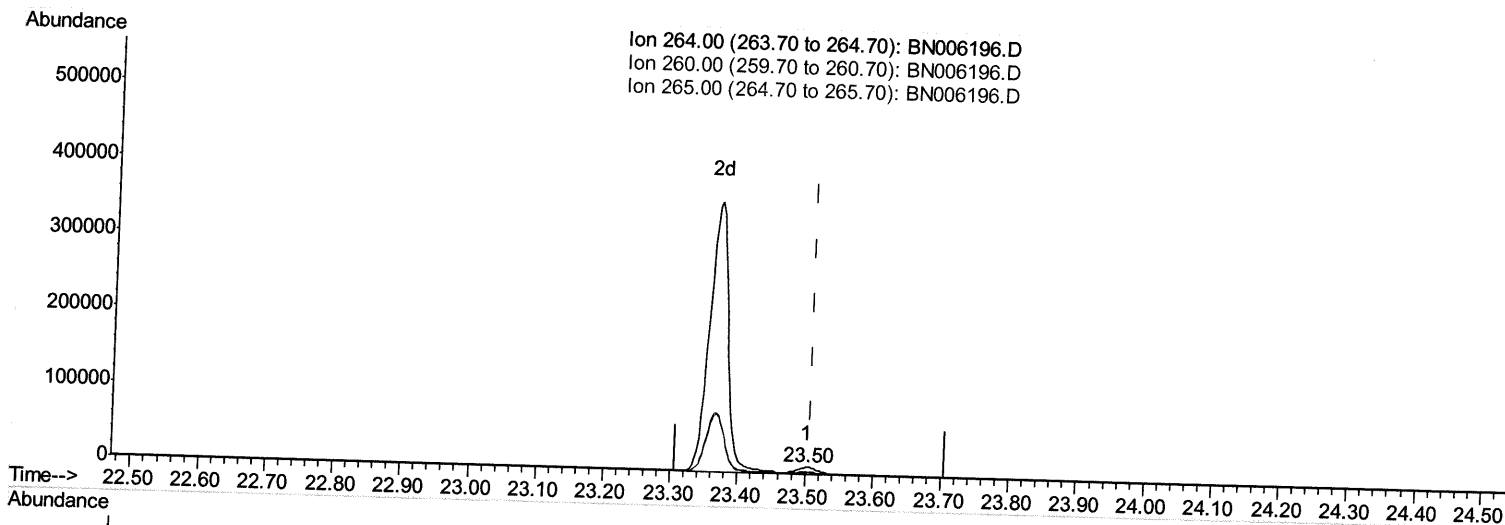
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampled :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:08:06 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(20) Perylene-d12 (I)

23.501min (-0.006) 0.40ng/ul m *JU 06/10/19*

response 14228

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 264.00 | 100   | 100    |
| 260.00 | 29.20 | 26.26  |
| 265.00 | 44.70 | 31.53# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

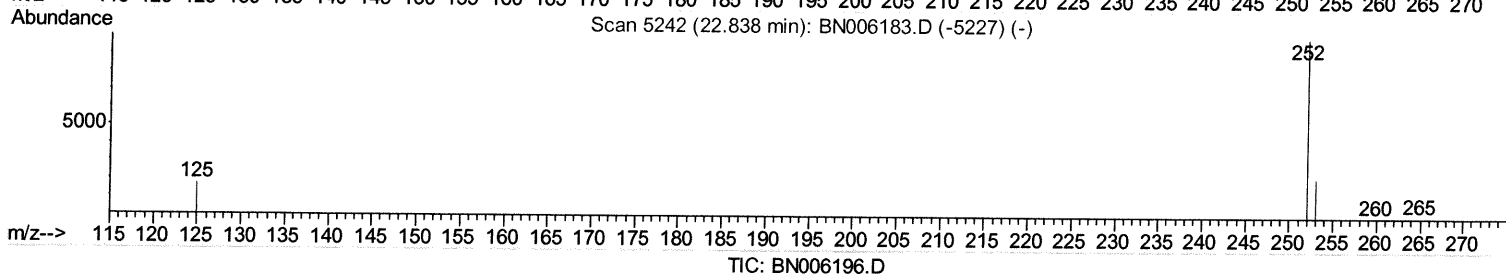
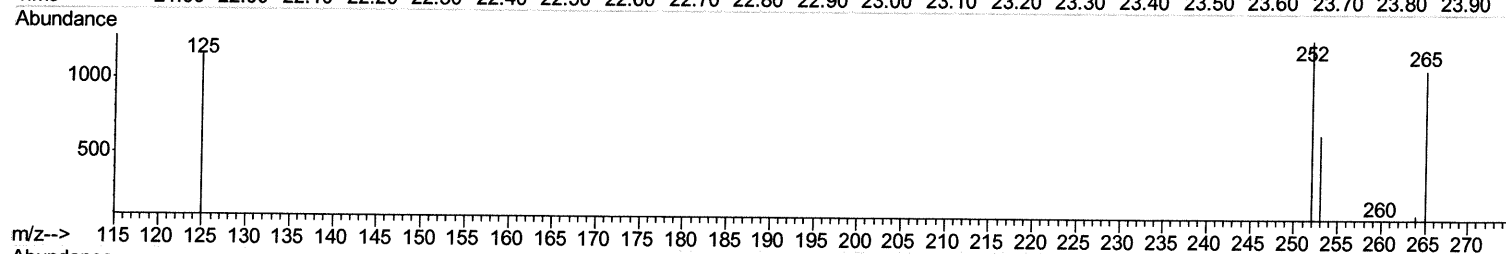
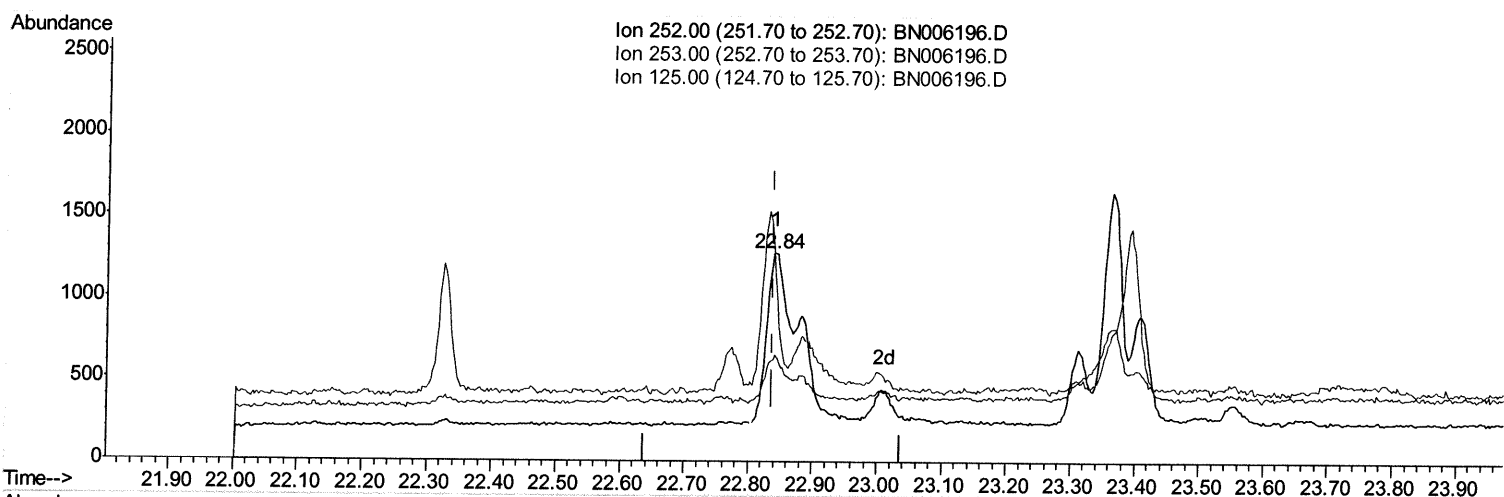
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:09:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.840min (+0.003) 0.06ng/ui

response 3585

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 25.70 | 50.98  |
| 125.00 | 20.50 | 91.06# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

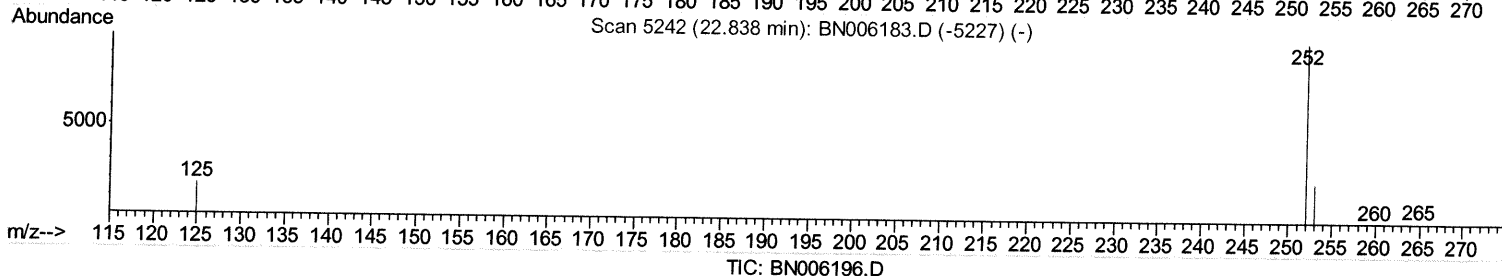
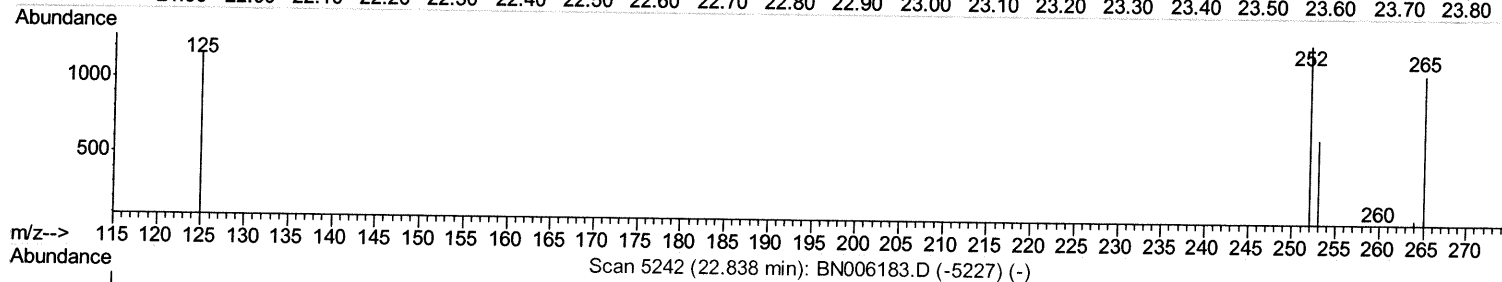
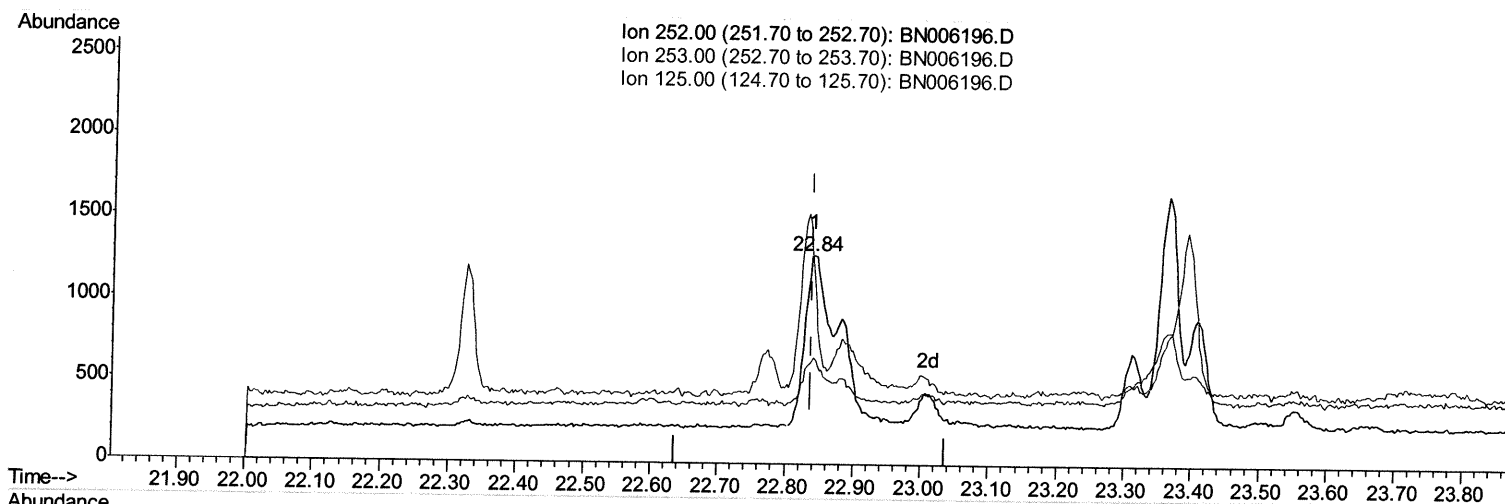
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:09:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.840min (+0.003) 0.04ng/ul m

JU  
06/10/19

response 2335

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 25.70 | 50.98  |
| 125.00 | 20.50 | 91.06# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

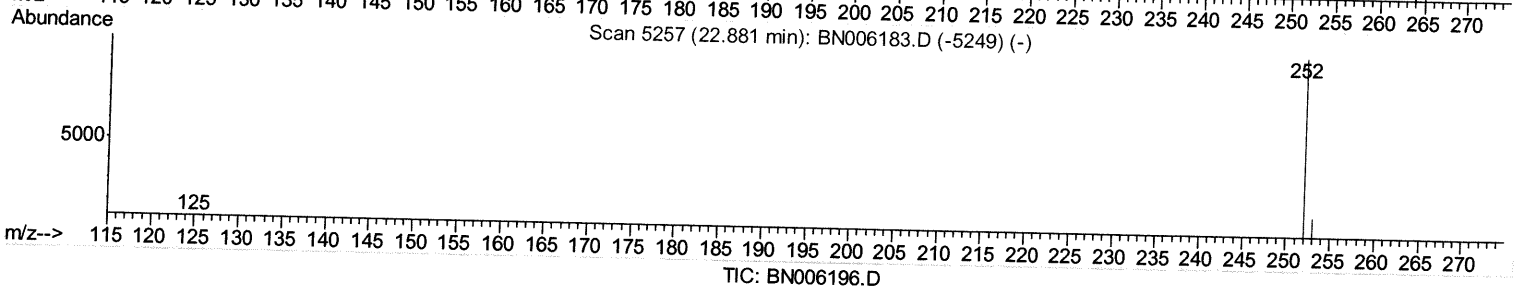
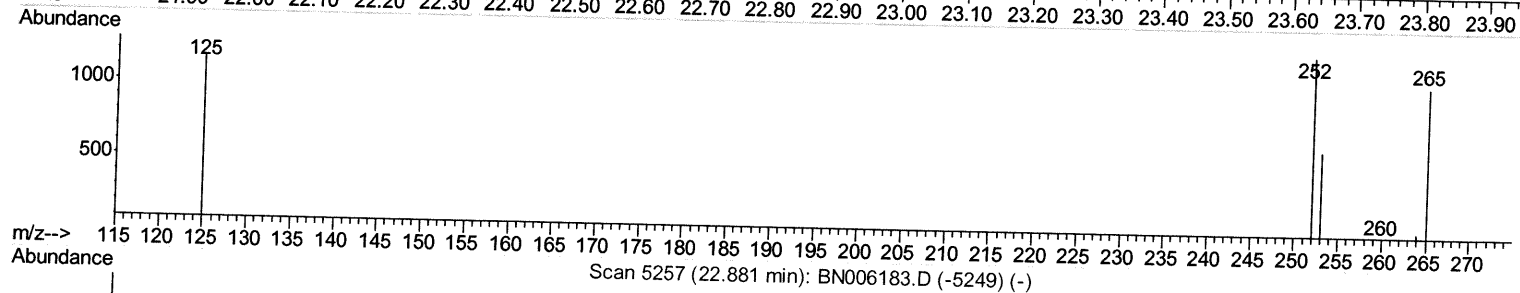
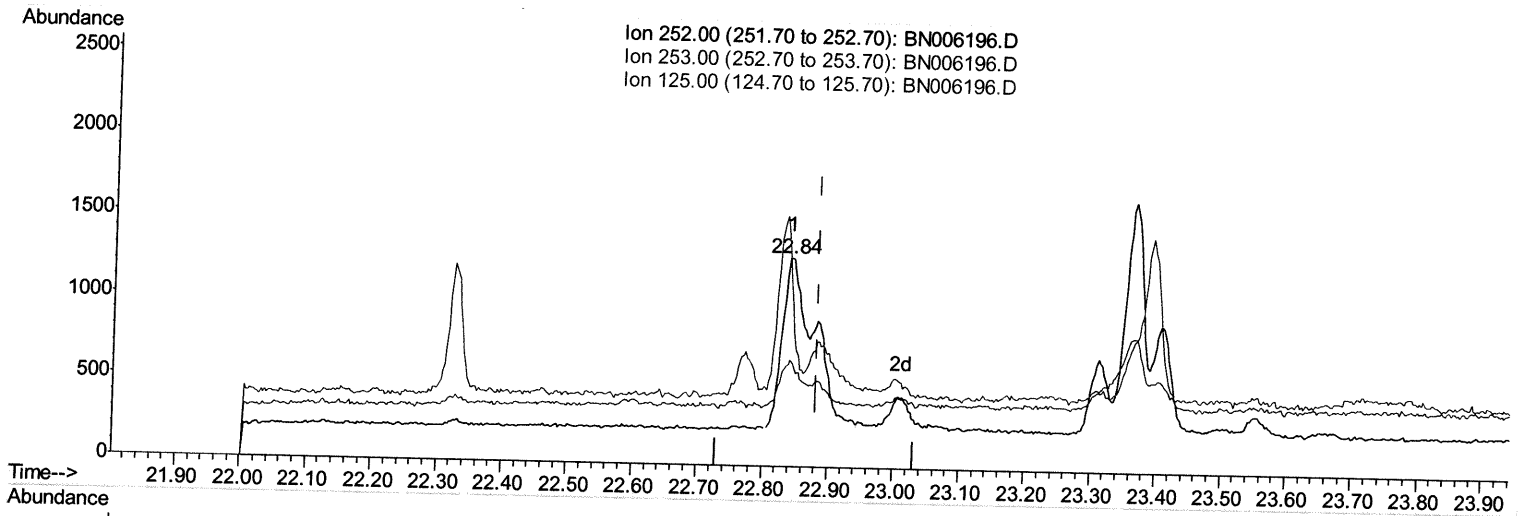
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:09:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.840min (-0.041) 0.06ng/ul

response 3514

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 25.40 | 50.98# |
| 125.00 | 17.90 | 91.06# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (Qedit)

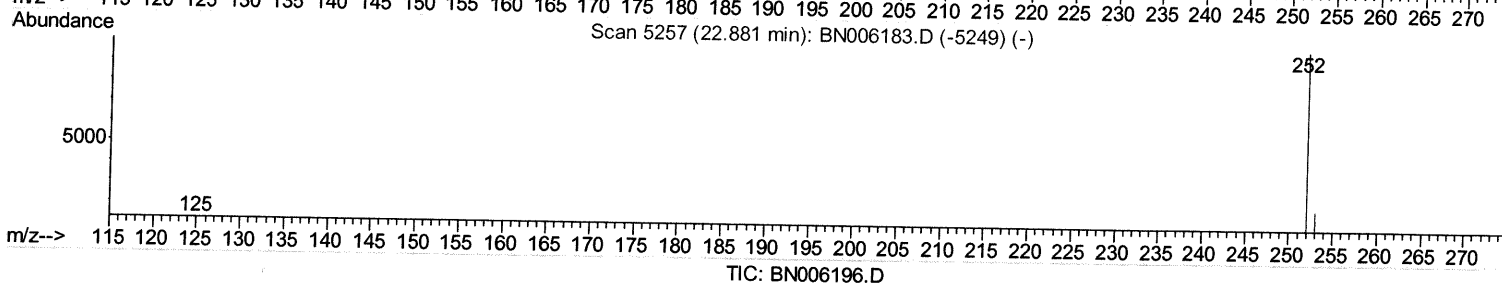
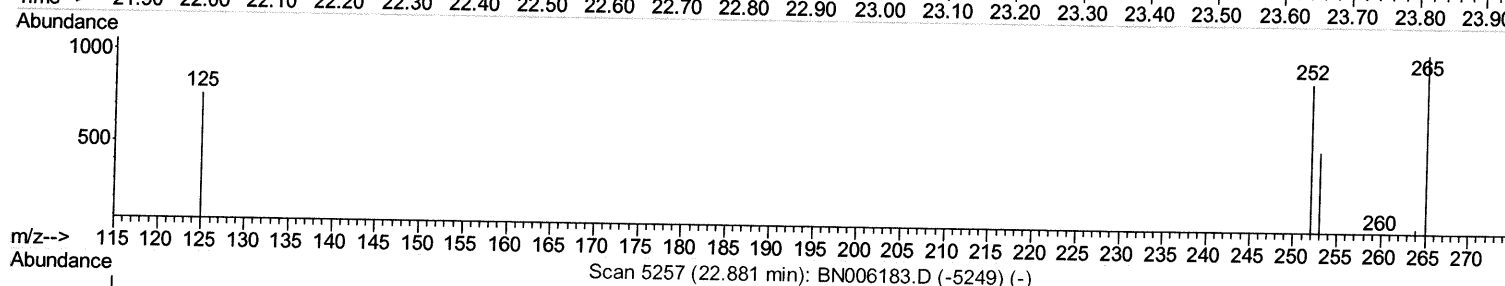
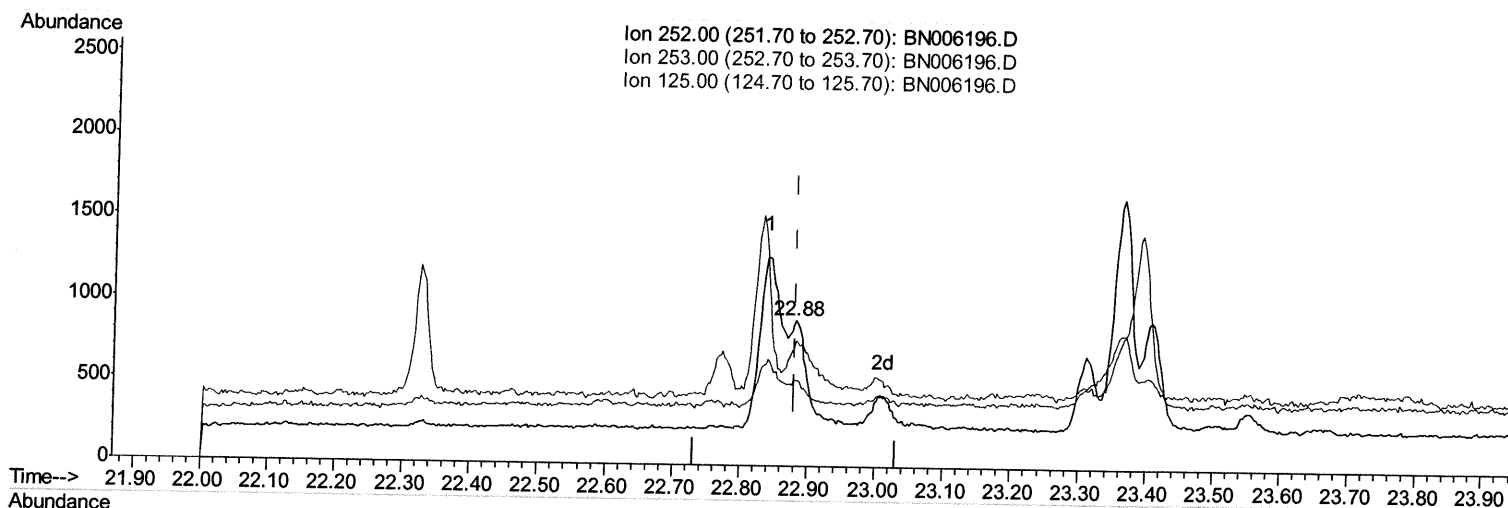
Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:09:02 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.881min (0.000) 0.02ng/ul m *JU* 06/10/19

response 1175

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 25.40 | 58.70# |
| 125.00 | 17.90 | 85.75# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN060819\  
Quantitation Report (QT Reviewed)

Data File : BN006196.D  
Acq On : 08 Jun 2019 17:56  
Operator : JU/SJ  
Sample : K3016-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A51D5

Manual Integrations  
APPROVED

mohammad  
6/11/2019 4:31:07 PM

Quant Time: Jun 09 05:09:50 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 04:20:15 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.65  | 152  | 5870     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.42 | 136  | 22767    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.30 | 164  | 11604    | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.05 | 188  | 21693m > | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.27 | 240  | 16068m > | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.50 | 264  | 14228m > | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152  | 5735     | 0.16 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.09 | 212  | 10736m > | 0.18 | ng/ul | 0.00     |

| Target Compounds         | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------|-------|------|----------|-------|--------|--------|
| 15) Fluoranthene         | 19.12 | 202  | 3058m >  | 0.040 | ng/ul  |        |
| 17) Pyrene               | 19.49 | 202  | 2589     | 0.031 | ng/ul# | 77     |
| 18) Benzo(a)anthracene   | 21.25 | 228  | 1626     | 0.023 | ng/ul# | 77     |
| 19) Chrysene             | 21.31 | 228  | 1710     | 0.026 | ng/ul# | 84     |
| 21) Benzo(b)fluoranthene | 22.84 | 252  | 2335m >  | 0.039 | ng/ul  |        |
| 22) Benzo(k)fluoranthene | 22.88 | 252  | 1175m >  | 0.020 | ng/ul  |        |

JU 06/10/19

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