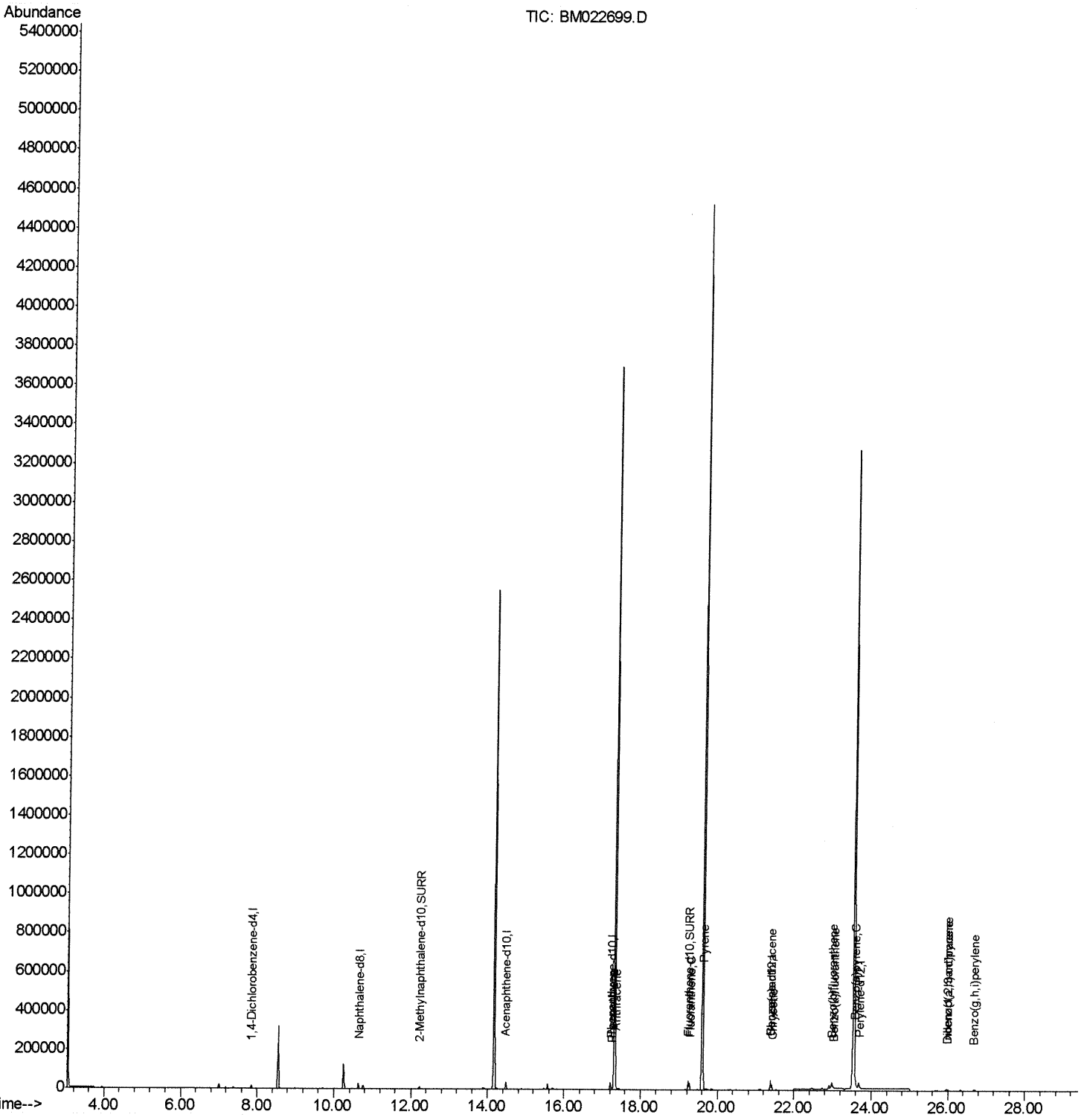
Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 18:00:18 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM



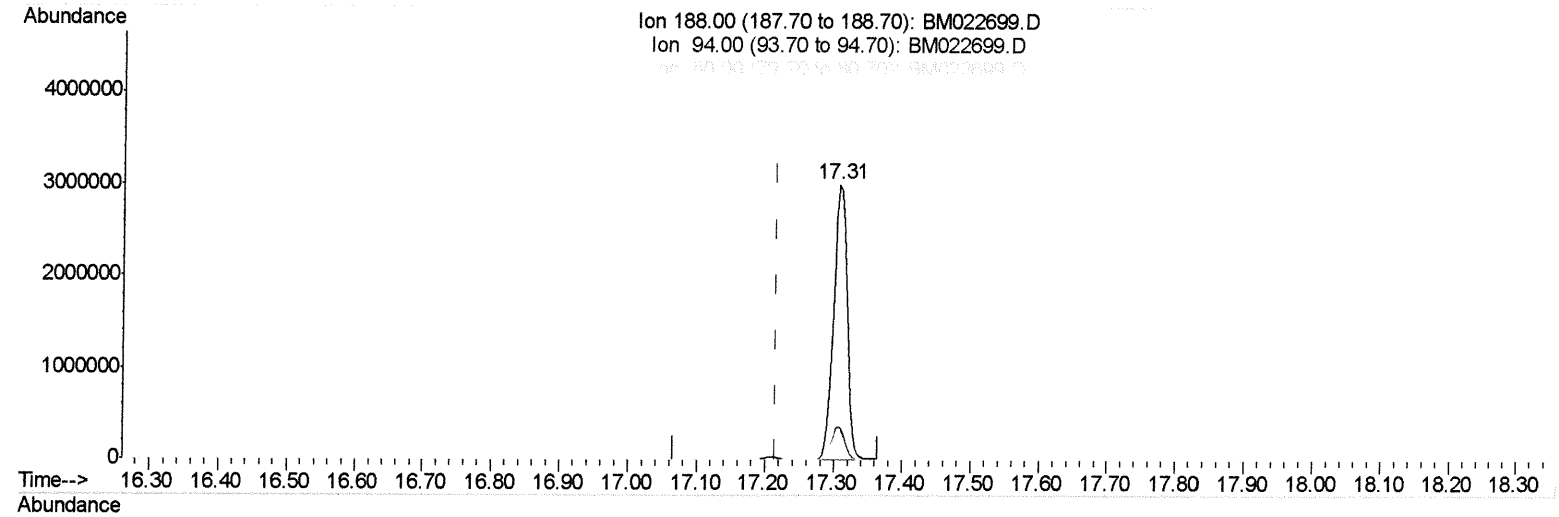
# Quantitation Report (Qedit)

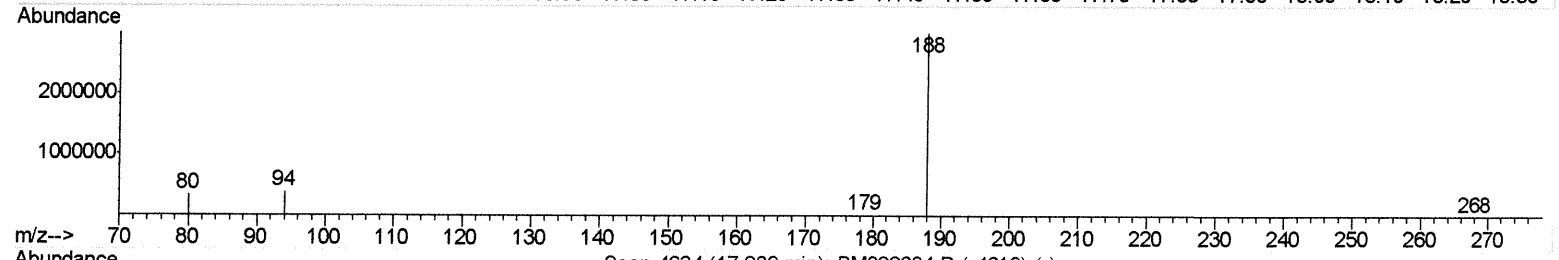
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

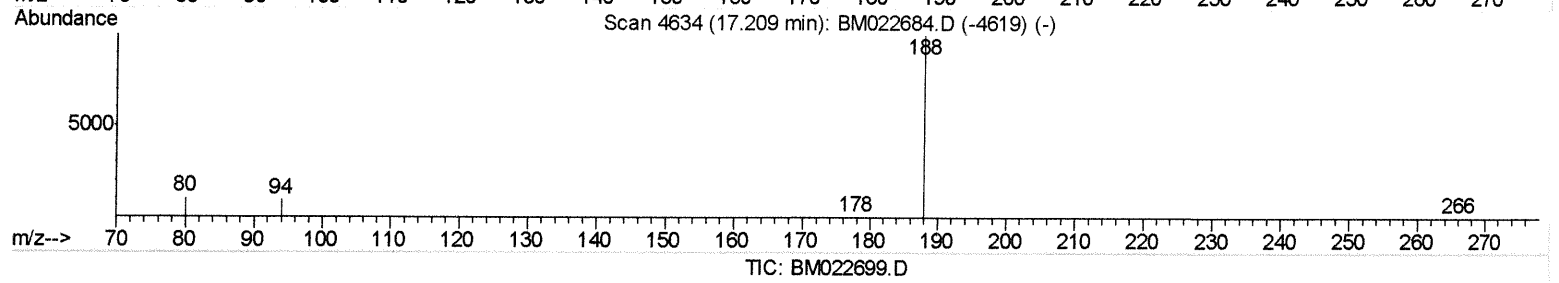
Quant Time: Sep 17 17:51:40 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




TIC: BM022699.D

(10) Phenanthrene-d10 (I)

17.306min (+0.090) 0.40ng/ul

response 4177957

| Ion | Exp% | Act% |
|---|---|---|
| 188.00 | 100 | 100 |
| 94.00 | 9.80 | 12.35# |
| 80.00 | 11.00 | 10.90 |
| 0.00 | 0.00 | 0.00 |

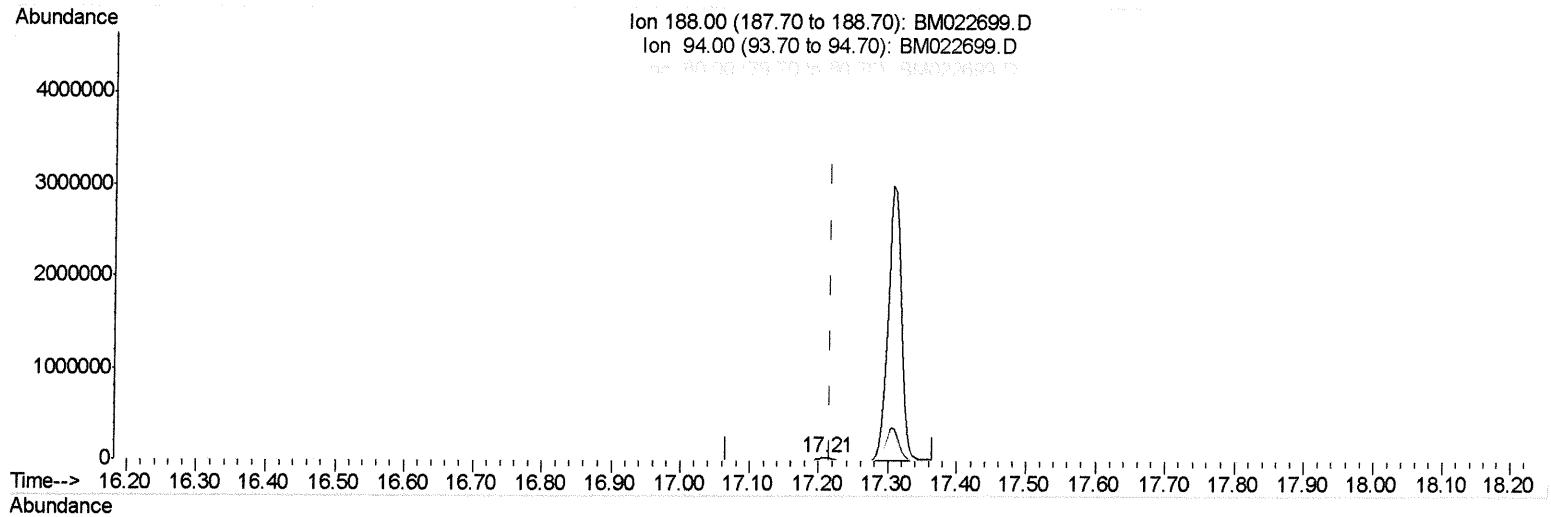
# Quantitation Report (Qedit)

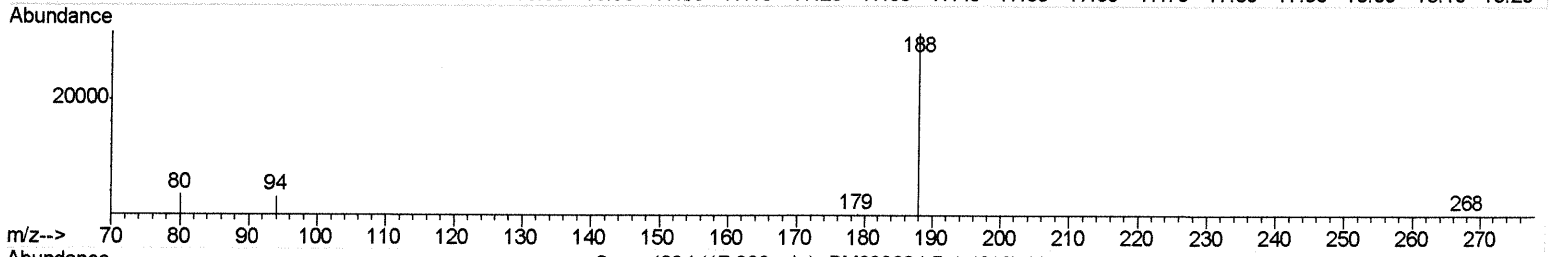
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

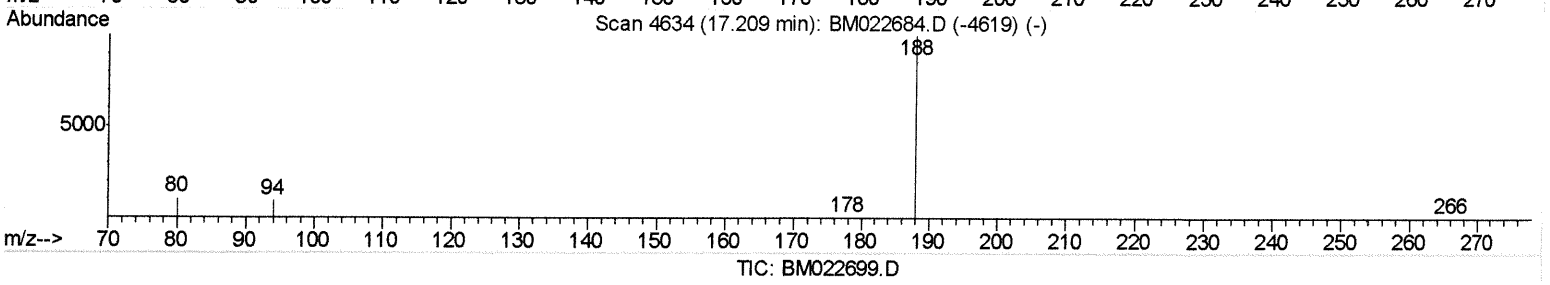
Quant Time: Sep 17 17:51:40 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




(10) Phenanthrene-d10 (I)

17.209min (-0.007) 0.40ng/ul m JU 09/24/19

response 43338

| Ion | Exp% | Act% |
|---|---|---|
| 188.00 | 100 | 100 |
| 94.00 | 9.80 | 9.97 |
| 80.00 | 11.00 | 10.80 |
| 0.00 | 0.00 | 0.00 |

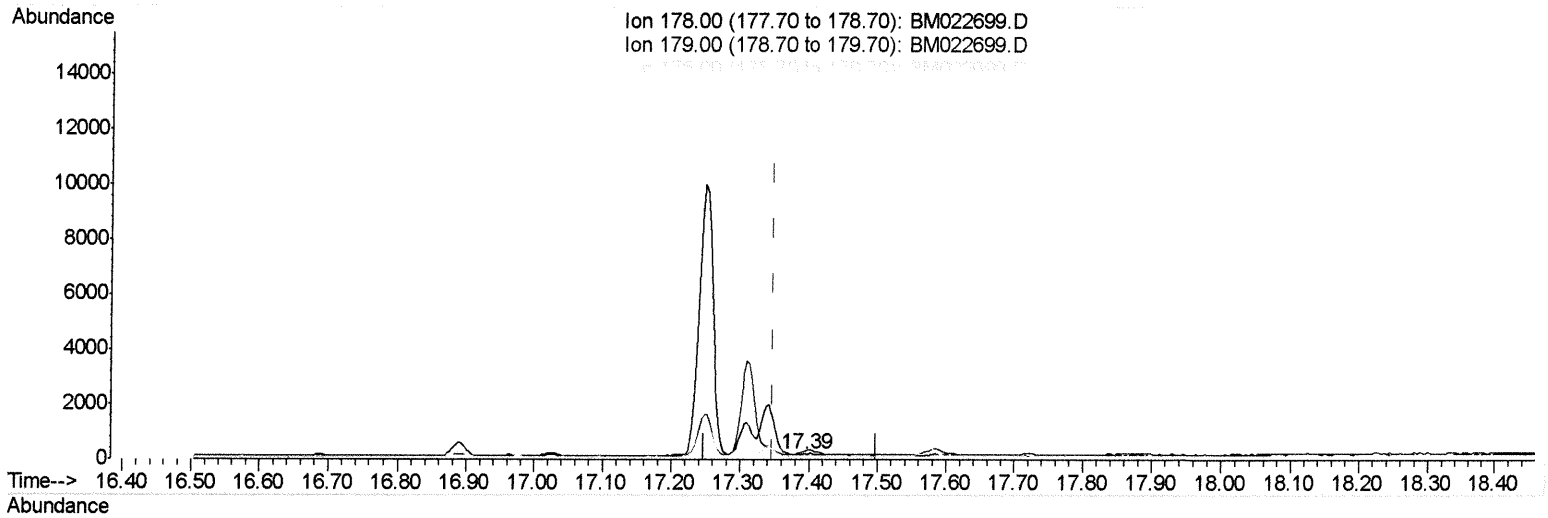
# Quantitation Report (Qedit)

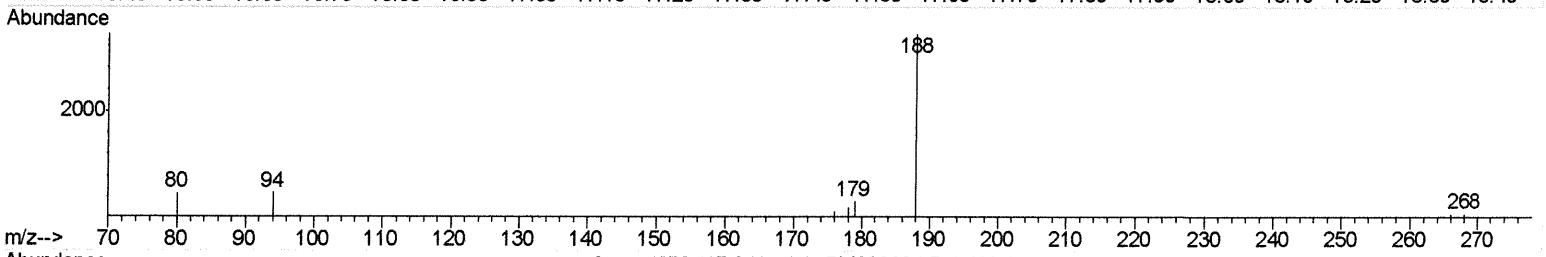
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

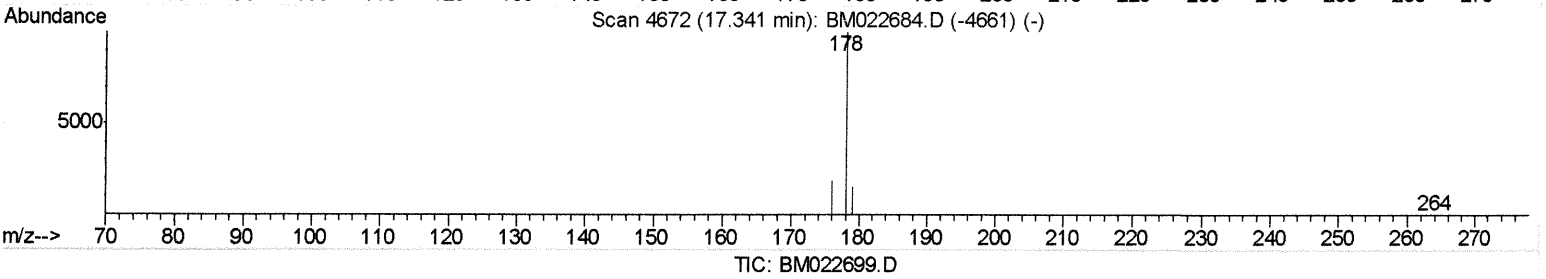
Quant Time: Sep 17 17:57:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




(13) Anthracene

17.393min (+0.045) 0.00ng/ul

response 142

| Ion | Exp% | Act% |
|---|---|---|
| 178.00 | 100 | 100 |
| 179.00 | 15.60 | 150.92# |
| 176.00 | 18.50 | 64.68# |
| 0.00 | 0.00 | 0.00 |

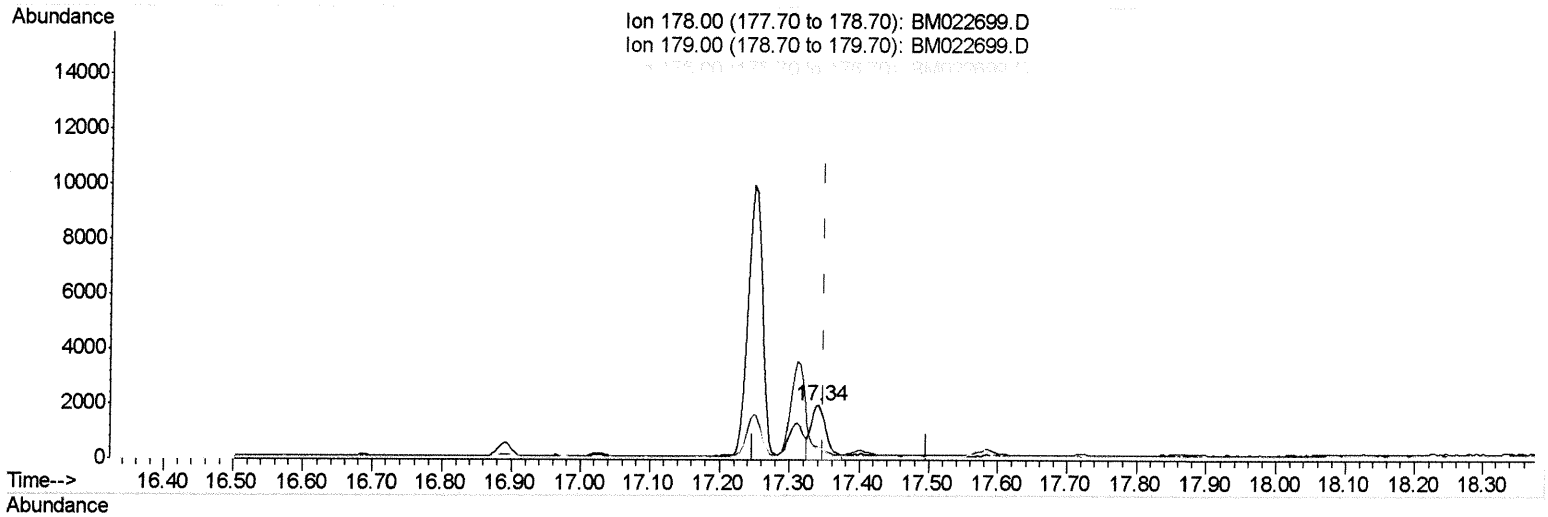
# Quantitation Report (Qedit)

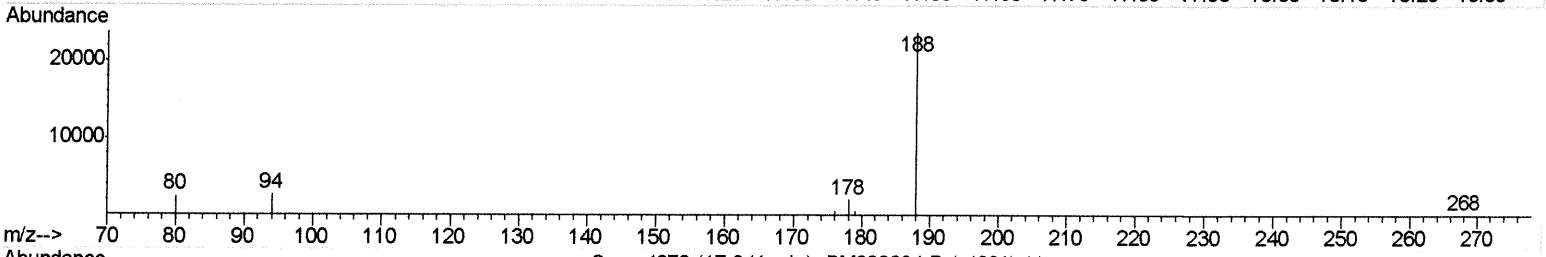
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

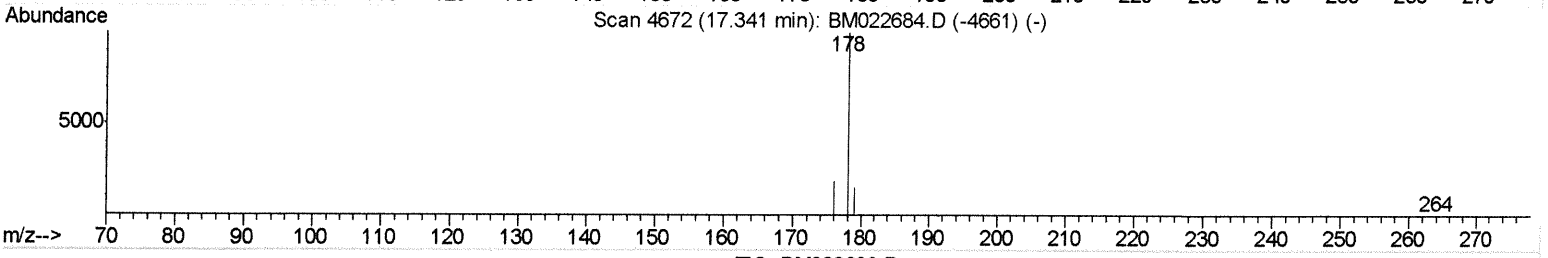
Quant Time: Sep 17 17:57:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




TIC: BM022699.D

(13) Anthracene

17.341min (-0.007) 0.03ng/ul m

response 3063

9/19/19

| Ion | Exp% | Act% |
|---|---|---|
| 178.00 | 100 | 100 |
| 179.00 | 15.60 | 24.39# |
| 176.00 | 18.50 | 24.24# |
| 0.00 | 0.00 | 0.00 |

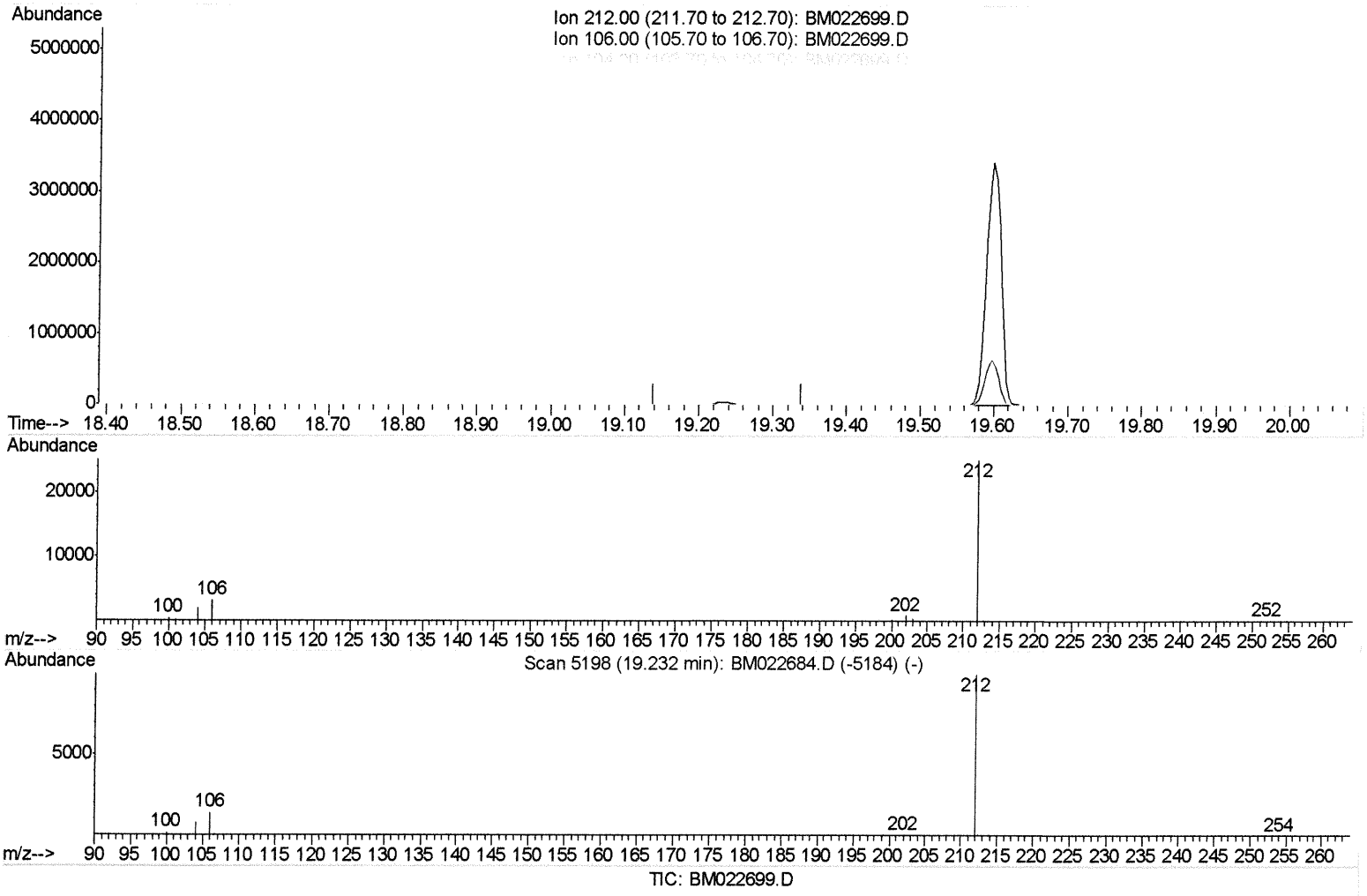
# Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 17:57:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




(14) Fluoranthene-d10 (SURR)

19.240min (-19.240) 0.00ng/ul

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 212.00 | 100 | 0.00 |
| 106.00 | 14.00 | 0.00# |
| 104.00 | 8.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |

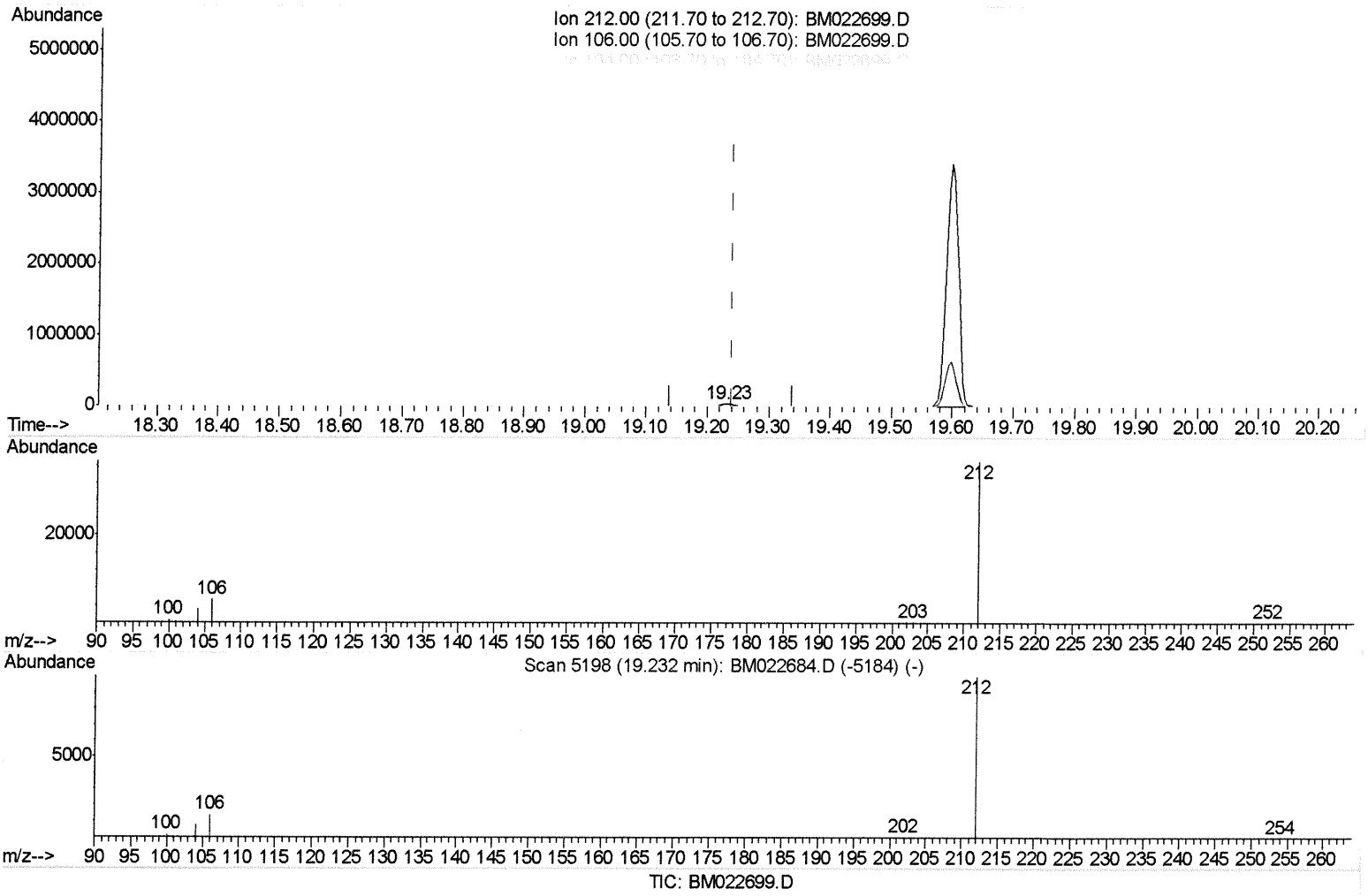
# Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 17:57:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




(14) Fluoranthene-d10 (SURR)

19.232min (-0.008) 0.41ng/ul m JU 09/24/19

response 48983

| Ion | Exp% | Act% |
|---|---|---|
| 212.00 | 100 | 100 |
| 106.00 | 14.00 | 0.00# |
| 104.00 | 8.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |

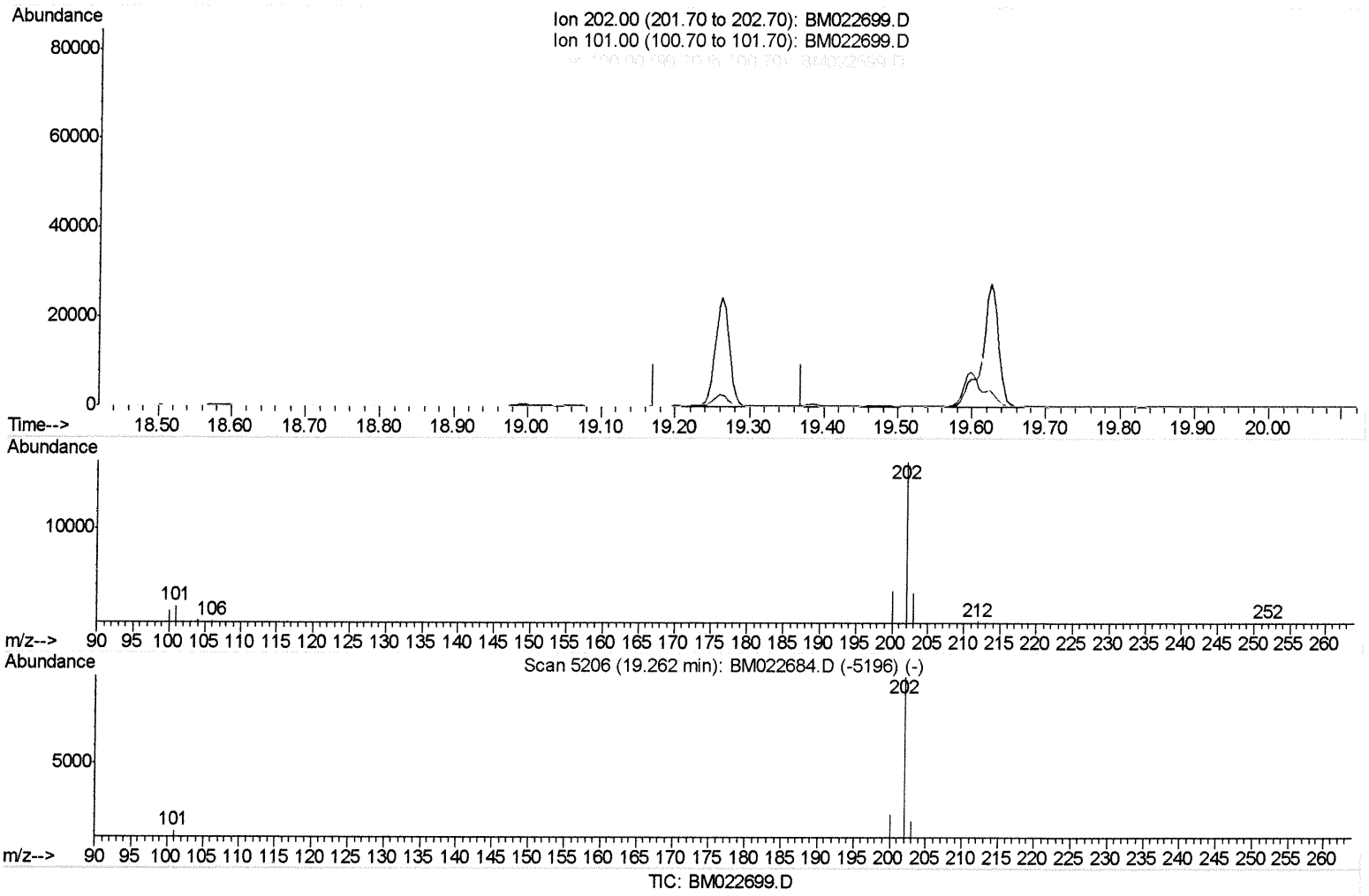
# Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 17:57:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM







TIC: BM022699.D

(15) Fluoranthene (C)

19.270min (-19.270) 0.00ng/ul

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 0.00 |
| 101.00 | 10.50 | 0.00 |
| 100.00 | 8.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

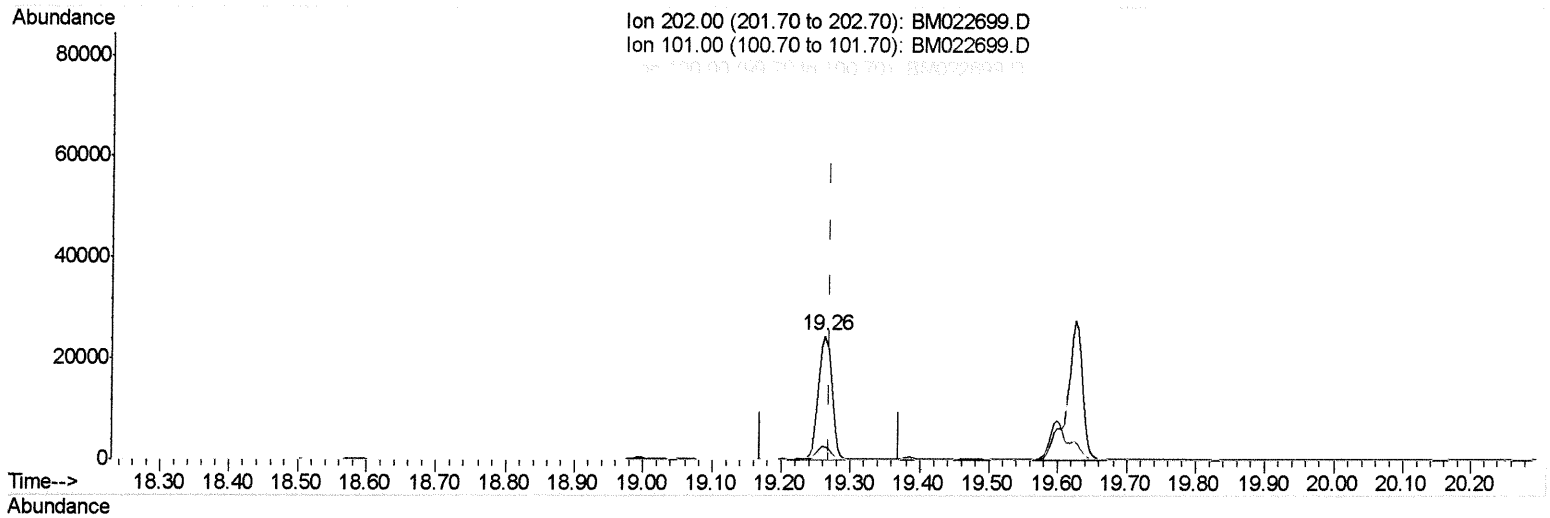
# Quantitation Report (Qedit)

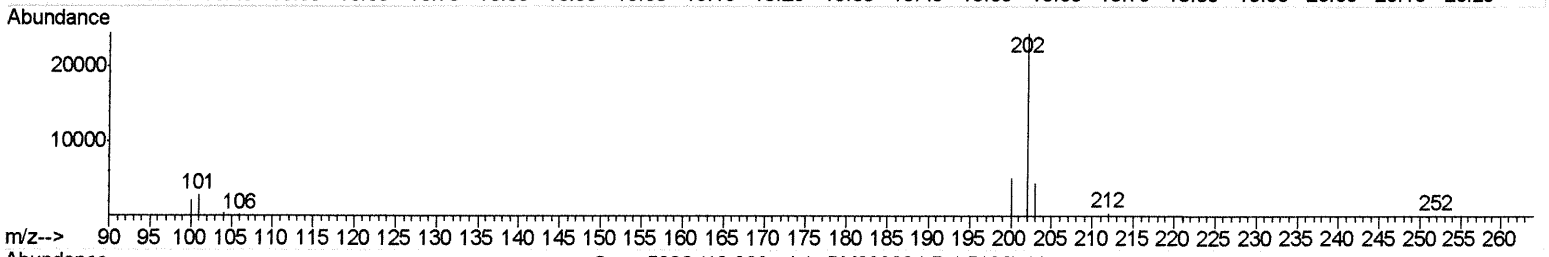
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

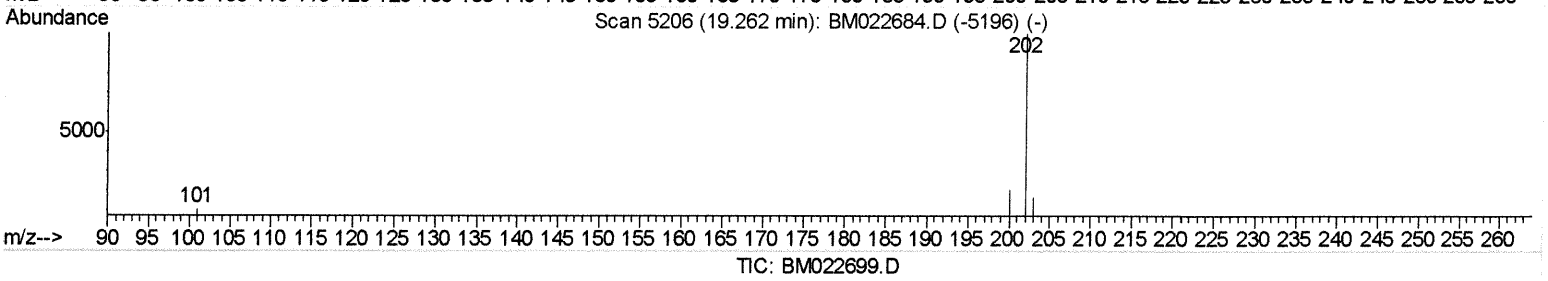
Quant Time: Sep 17 17:57:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




(15) Fluoranthene (C)

19.262min (-0.008) 0.22ng/ul m JH 09/24/19

response 32901

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 10.50 | 11.57 |
| 100.00 | 8.00 | 8.65 |
| 0.00 | 0.00 | 0.00 |

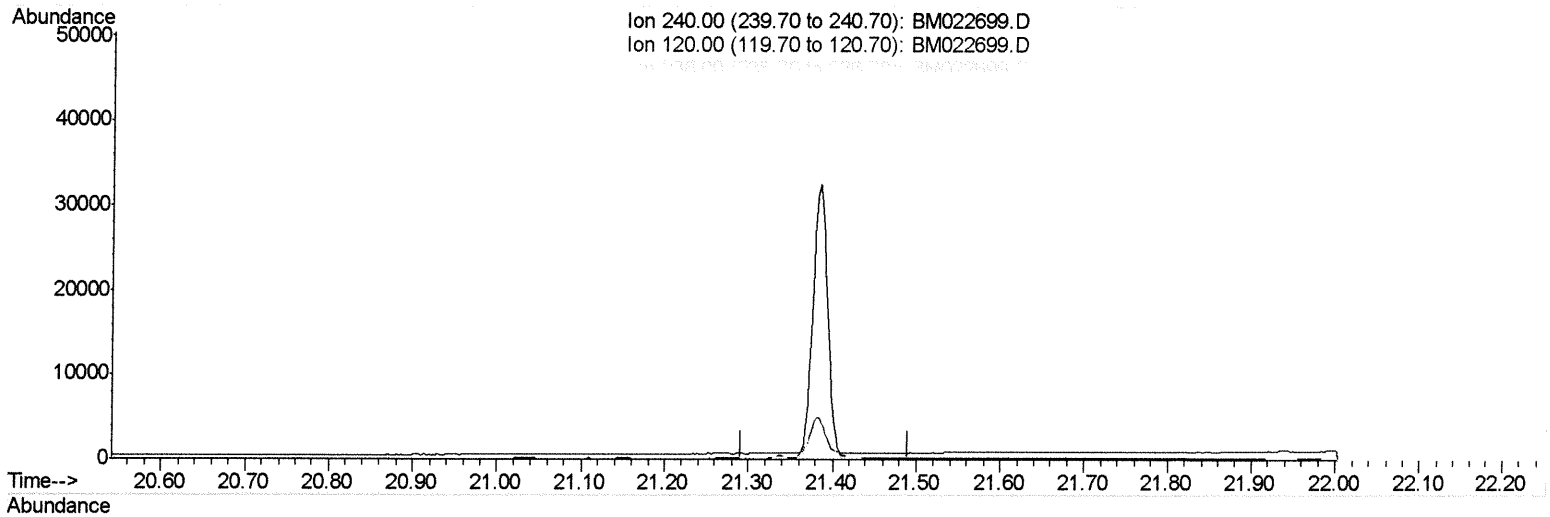
Quantitation Report (Qedit)

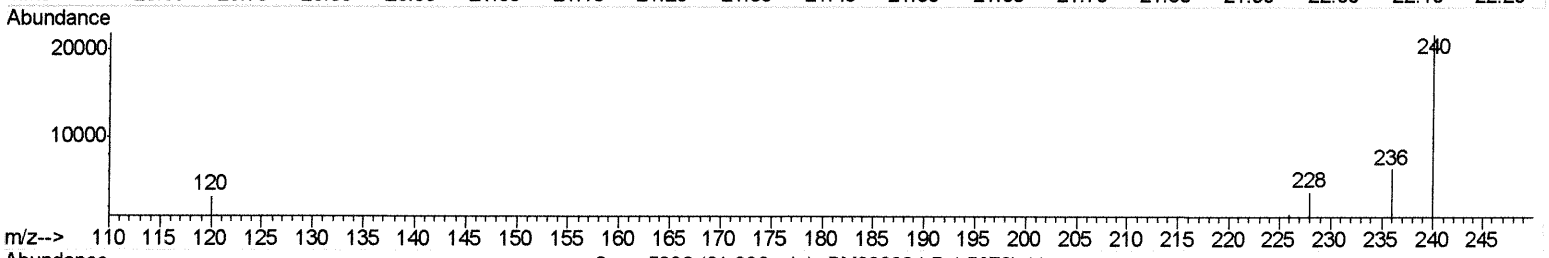
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

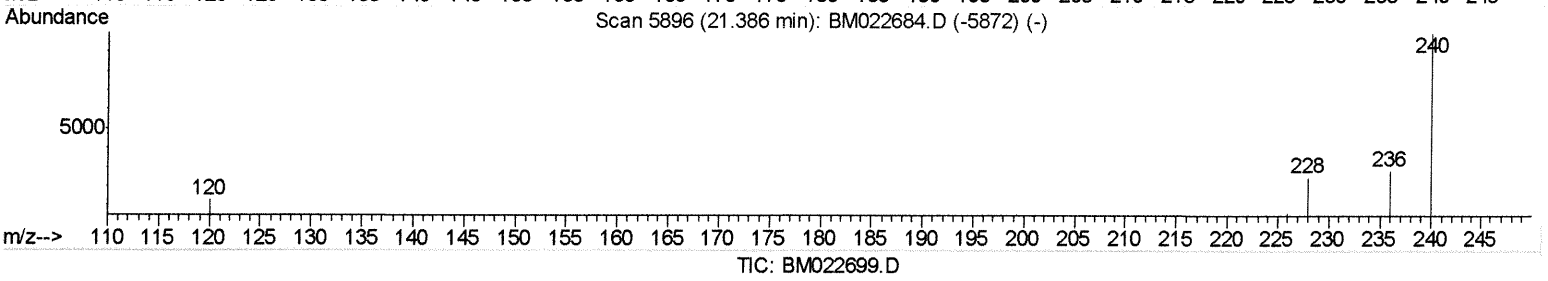
Quant Time: Sep 17 17:57:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




(16) Chrysene-d12 (I)

21.391min (-21.391) 0.00ng/ul

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 240.00 | 100 | 0.00 |
| 120.00 | 14.60 | 0.00# |
| 236.00 | 28.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

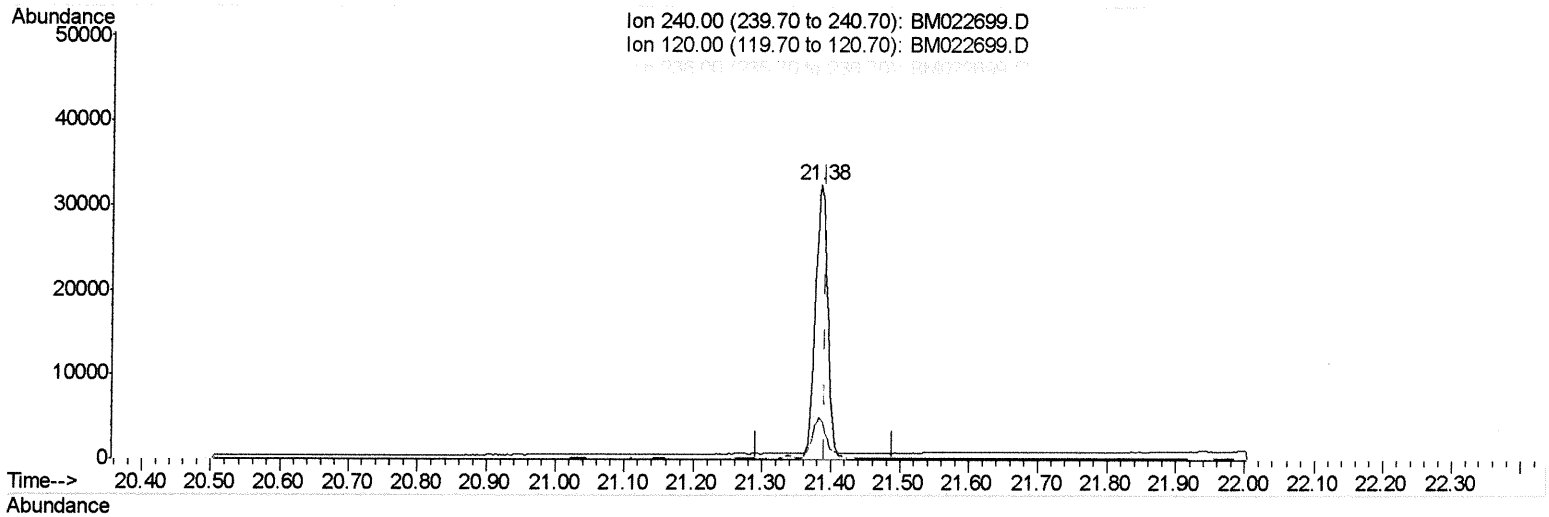
Quantitation Report (Qedit)

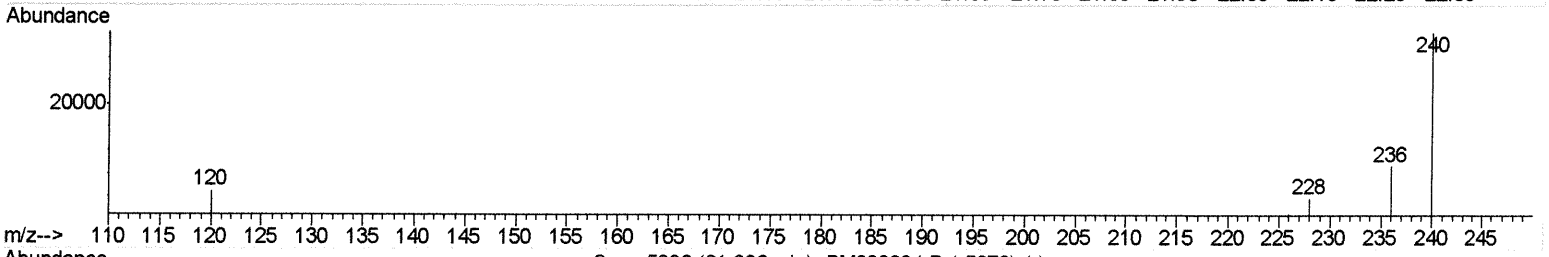
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

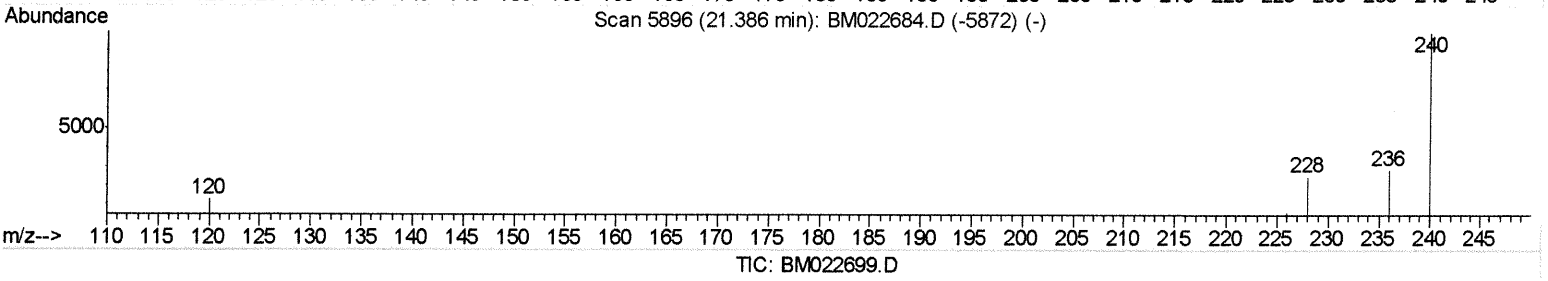
Quant Time: Sep 17 17:57:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




TIC: BM022699.D

(16) Chrysene-d12 (I)

21.384min (-0.008) 0.40ng/ul m JU 09/24/19

response 40291

| Ion | Exp% | Act% |
|---|---|---|
| 240.00 | 100 | 100 |
| 120.00 | 14.60 | 15.18 |
| 236.00 | 28.80 | 28.78 |
| 0.00 | 0.00 | 0.00 |

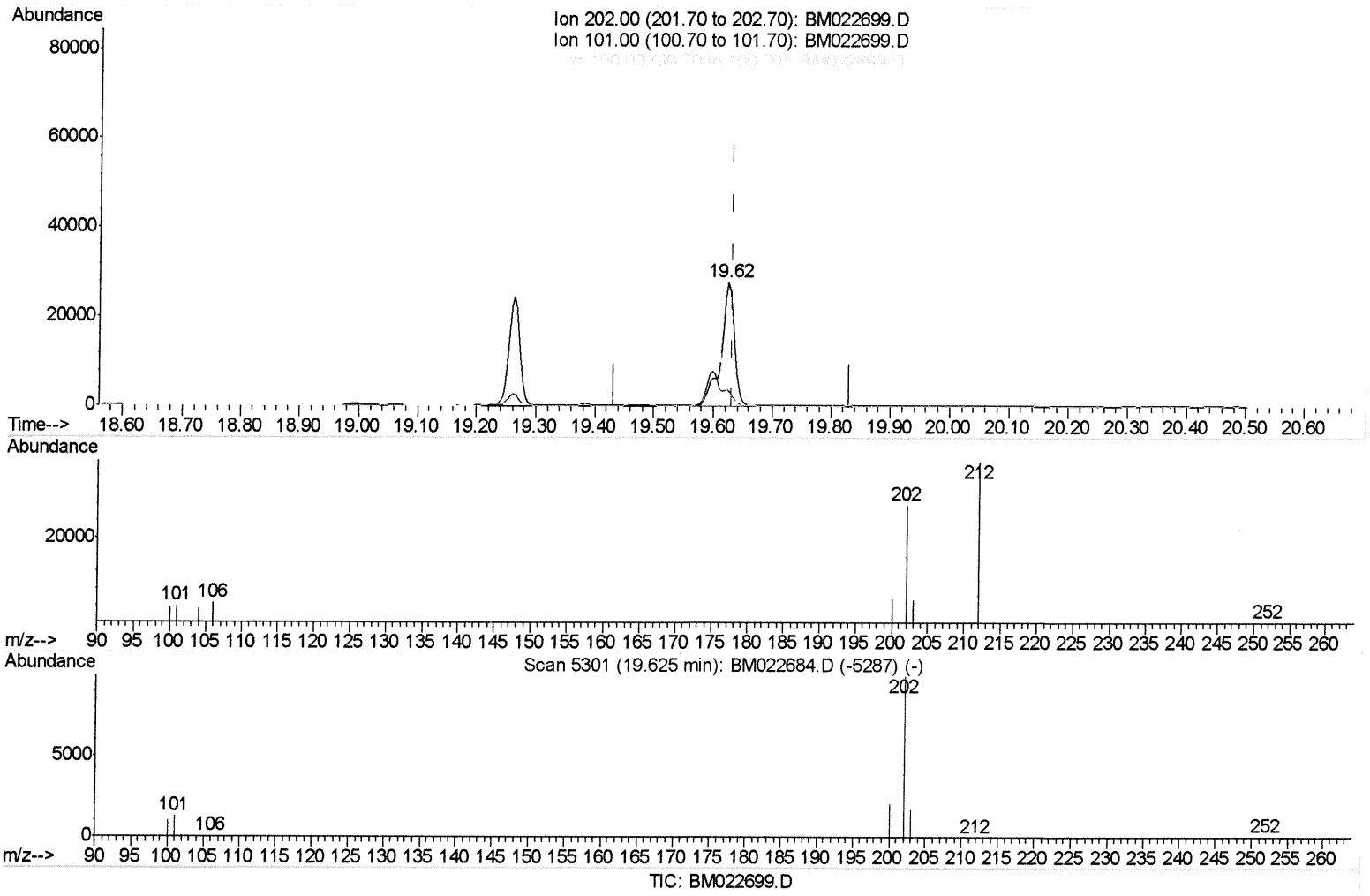
# Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 17:59:08 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




(17) Pyrene

19.625min (-0.008) 0.24ng/ul

response 43388

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 12.50 | 13.57 |
| 100.00 | 10.10 | 12.39# |
| 0.00 | 0.00 | 0.00 |

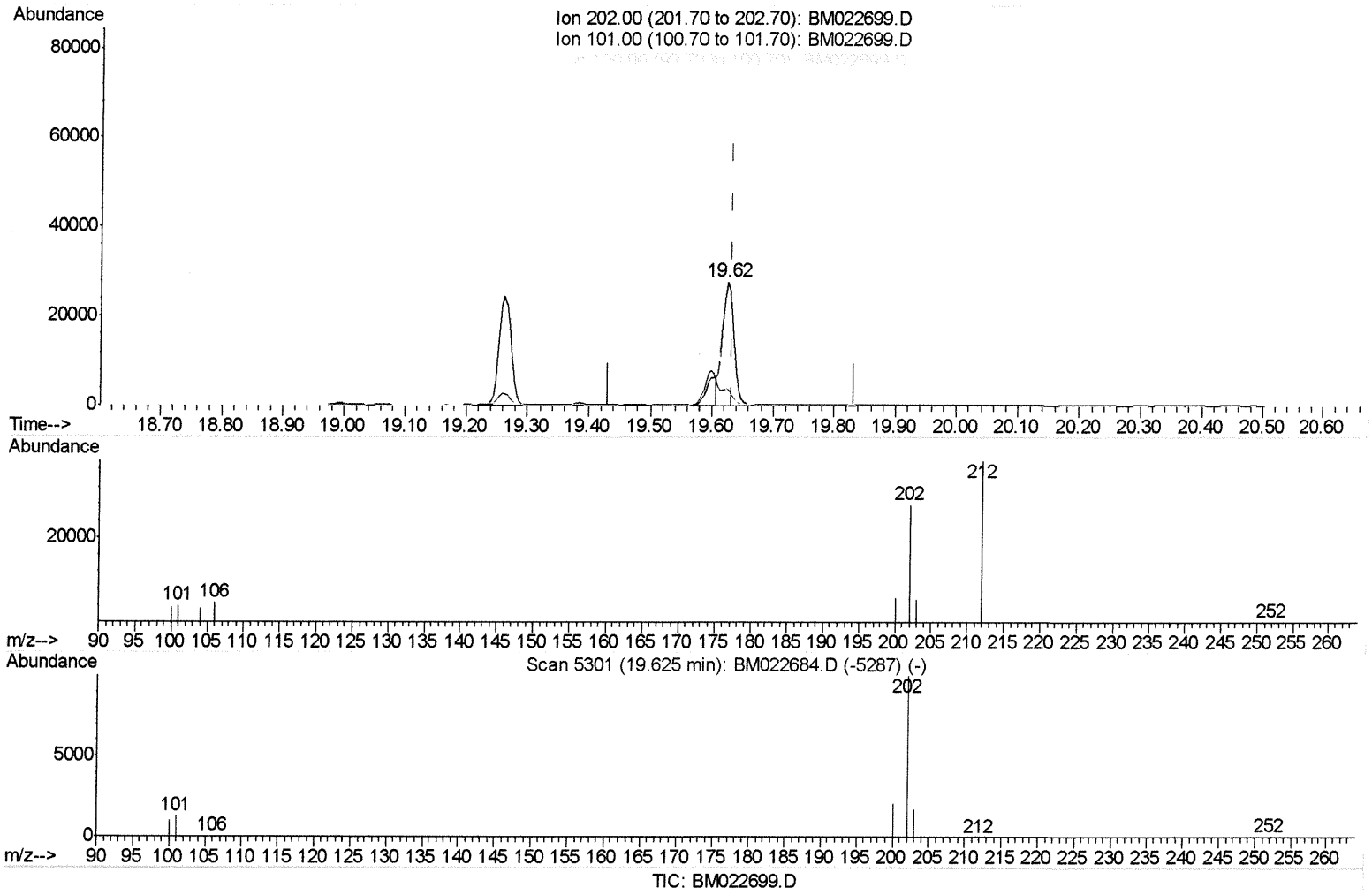
# Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 17:59:08 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




(17) Pyrene

19.625min (-0.008) 0.20ng/ul m

JU 9/24/19

response 36590

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 12.50 | 13.57 |
| 100.00 | 10.10 | 12.39# |
| 0.00 | 0.00 | 0.00 |

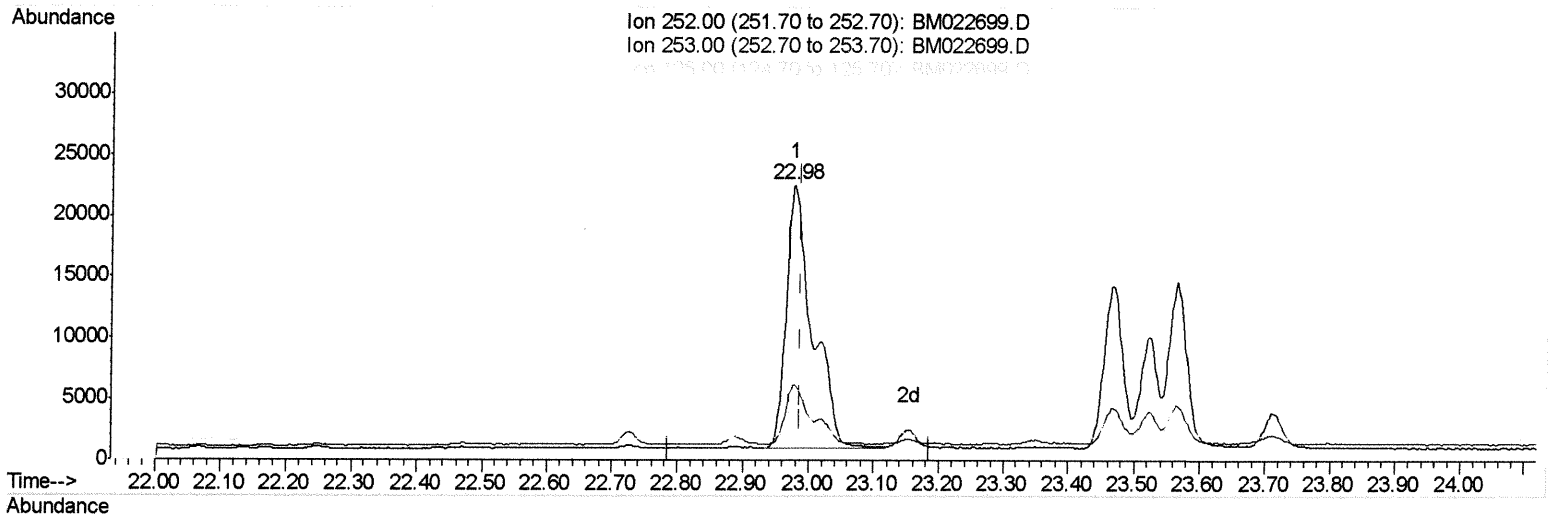
Quantitation Report (Qedit)

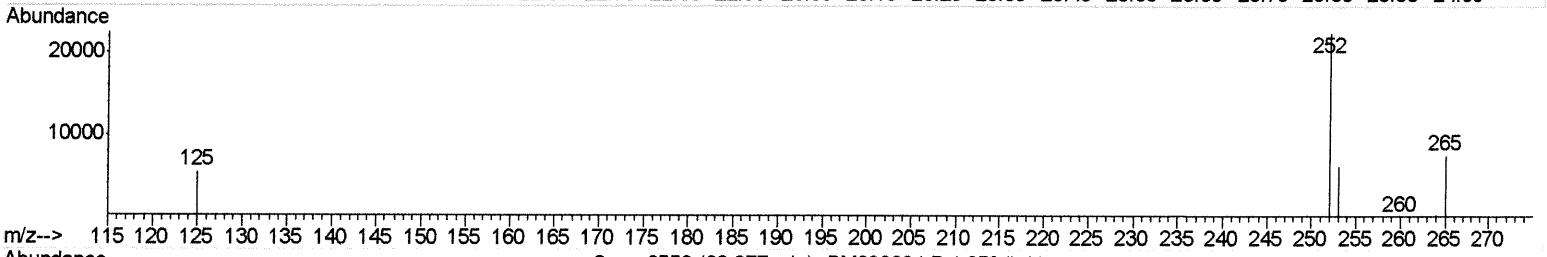
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

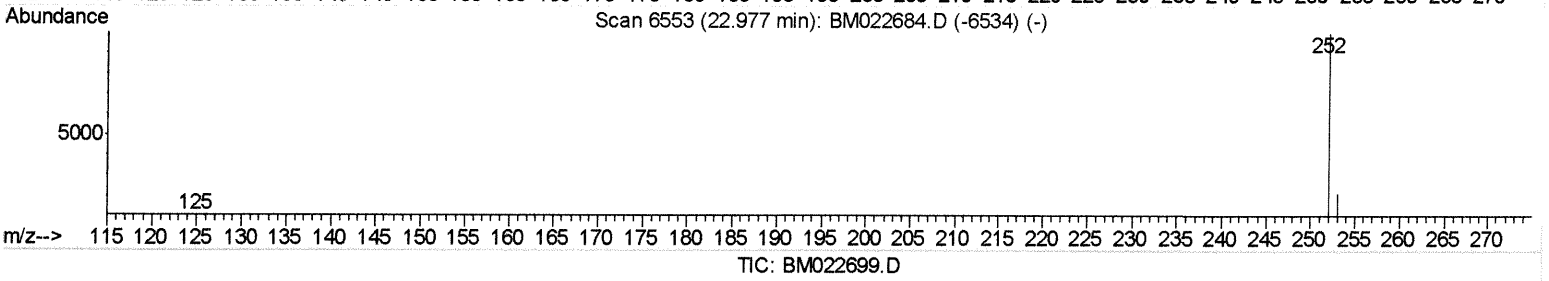
Quant Time: Sep 17 17:59:08 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




TIC: BM022699.D

(21) Benzo(b)fluoranthene

22.977min (-0.010) 0.33ng/ul

response 59281

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 24.20 | 27.23 |
| 125.00 | 15.60 | 23.84 |
| 0.00 | 0.00 | 0.00 |

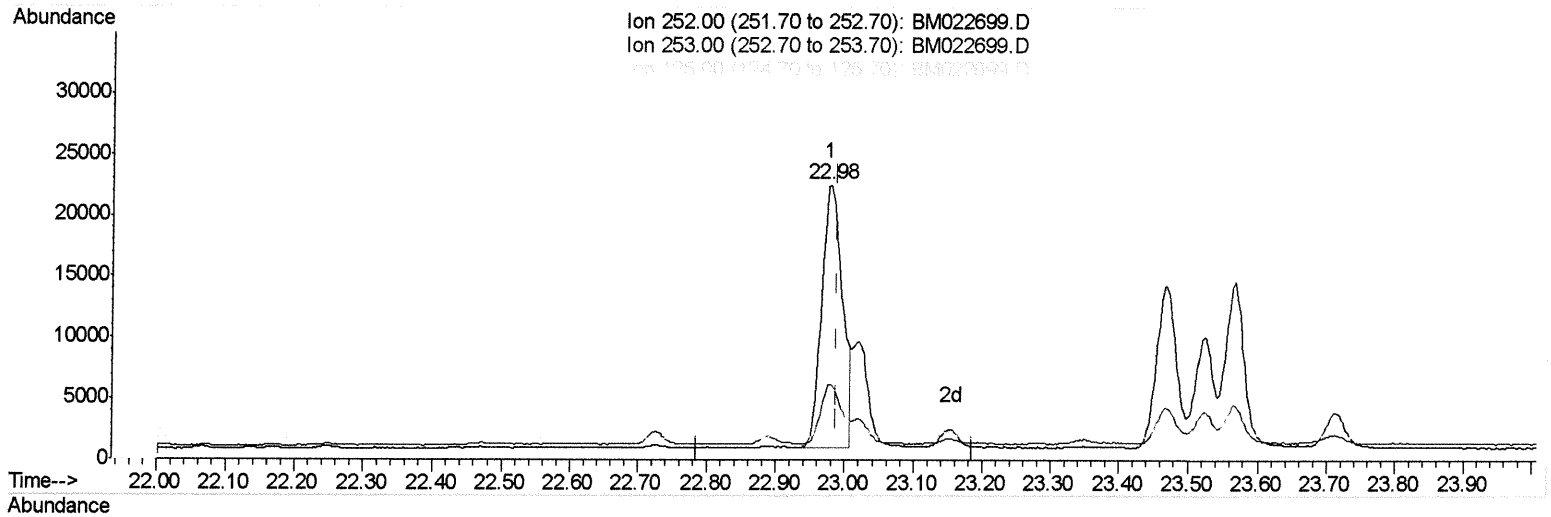
Quantitation Report (Qedit)

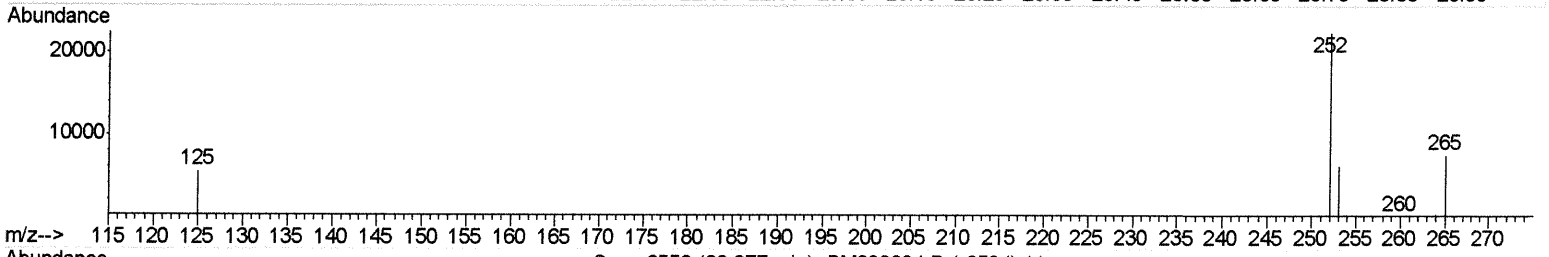
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

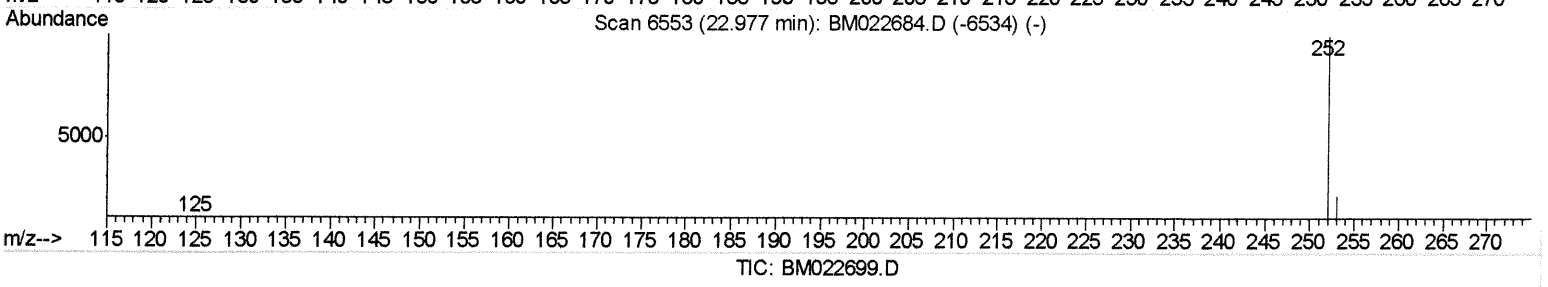
Quant Time: Sep 17 17:59:08 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




TIC: BM022699.D

(21) Benzo(b)fluoranthene

22.977min (-0.010) 0.25ng/ul m

JU 09/24/19

response 44571

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 24.20 | 27.23 |
| 125.00 | 15.60 | 23.84 |
| 0.00 | 0.00 | 0.00 |

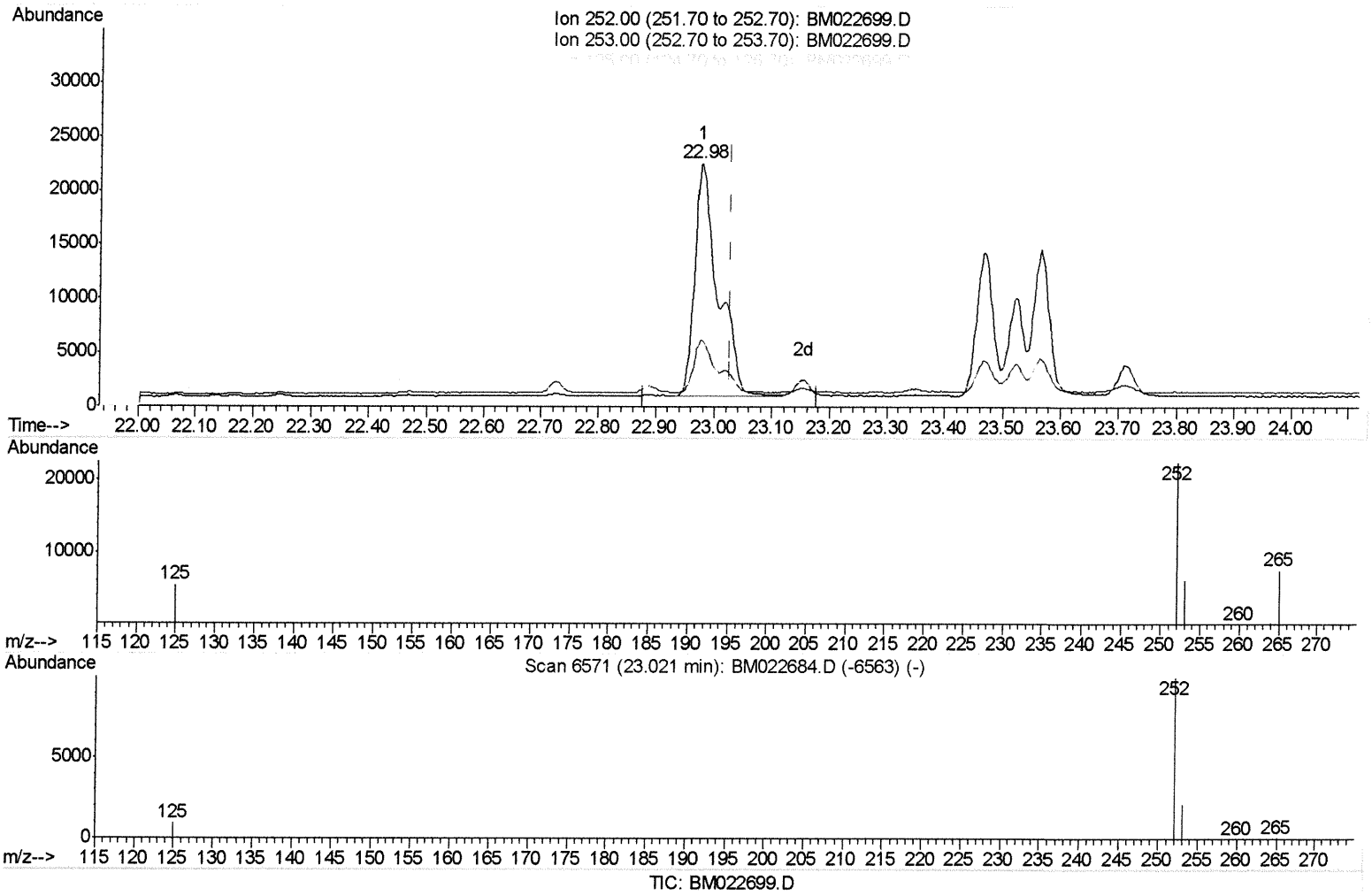
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 17:59:08 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




TIC: BM022699.D

(22) Benzo(k)fluoranthene

22.977min (-0.051) 0.33ng/ul

response 59281

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 24.40 | 27.23 |
| 125.00 | 14.00 | 23.84# |
| 0.00 | 0.00 | 0.00 |

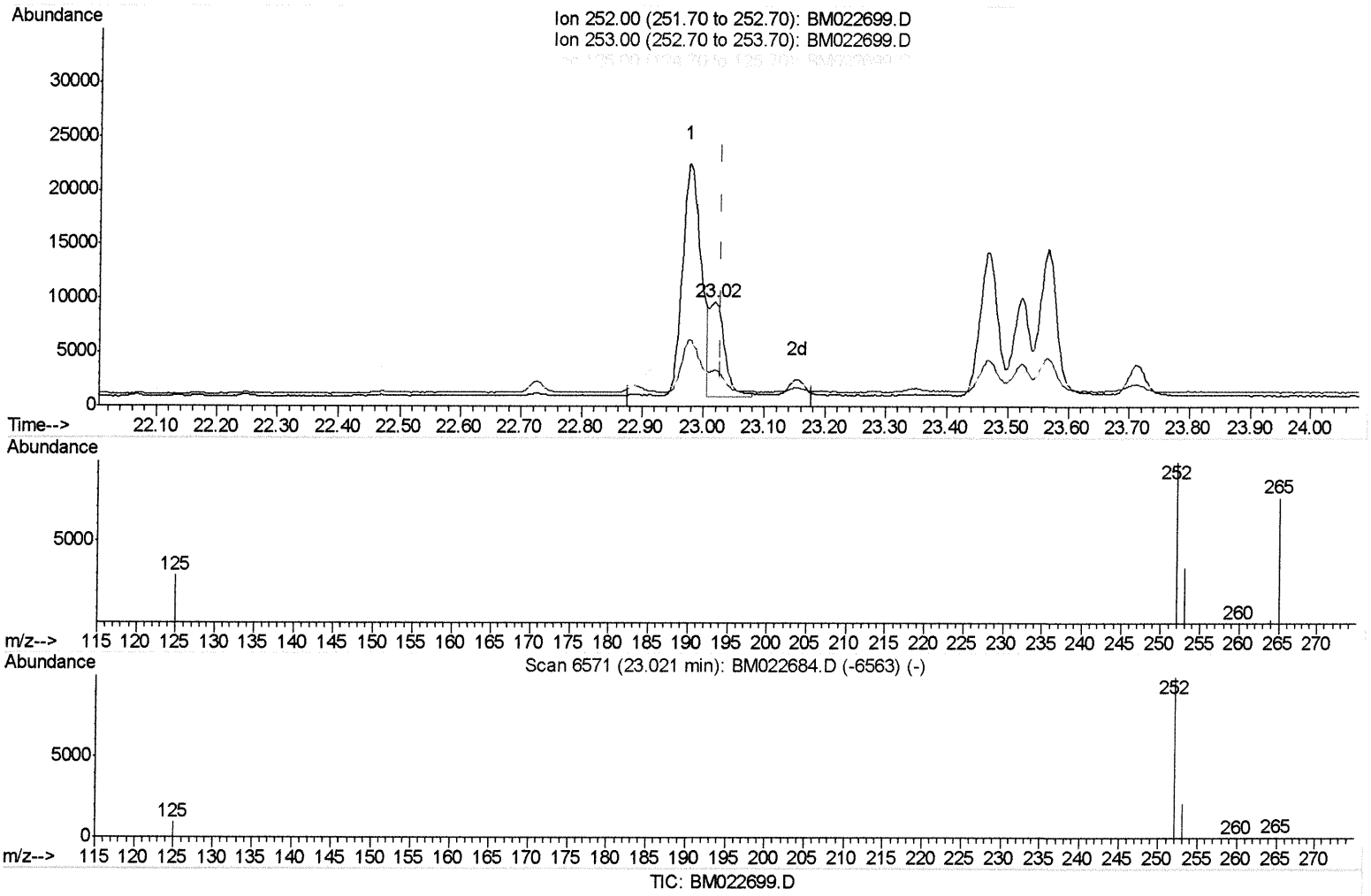
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 17:59:08 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
H0BM2

**Manual Integrations APPROVED**
mohammad
9/19/2019 4:44:14 PM




TIC: BM022699.D

(22) Benzo(k)fluoranthene

23.018min (-0.010) 0.08ng/ul m

response 14777

JU 09/24/19

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 24.40 | 34.88# |
| 125.00 | 14.00 | 30.36# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM091719\
Data File : BM022699.D
Acq On : 17 Sep 2019 10:10
Operator : HP/JU
Sample : K4780-09
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
H0BM2

Manual Integrations APPROVED
mohammad
9/19/2019 4:44:14 PM

Quant Time: Sep 17 18:00:18 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM091019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 15:06:45 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.84 | 152 | 8241 | 0.40 | ng/ul | 0.00 |
| 2) Naphthalene-d8 | 10.63 | 136 | 34133 | 0.40 | ng/ul | 0.00 |
| 6) Acenaphthene-d10 | 14.47 | 164 | 21377 | 0.40 | ng/ul | 0.00 |
| 10) Phenanthrene-d10 | 17.21 | 188 | 43338m | 0.40 | ng/ul | 0.00 |
| 16) Chrysene-d12 | 21.38 | 240 | 40291m | 0.40 | ng/ul | 0.00 |
| 20) Perylene-d12 | 23.67 | 264 | 41083 | 0.40 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Methylnaphthalene-d10 | 12.22 | 152 | 18112 | 0.32 | ng/ul | 0.00 |
| 14) Fluoranthene-d10 | 19.23 | 212 | 48983m | 0.41 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 12) Phenanthrene | 17.25 | 178 | 13653 | 0.099 | ng/ul | 98 |
| 13) Anthracene | 17.34 | 178 | 3063m | 0.026 | ng/ul | |
| 15) Fluoranthene | 19.26 | 202 | 32901m | 0.221 | ng/ul | |
| 17) Pyrene | 19.62 | 202 | 36590m | 0.200 | ng/ul | |
| 18) Benzo(a)anthracene | 21.37 | 228 | 19378 | 0.126 | ng/ul | 99 |
| 19) Chrysene | 21.42 | 228 | 28315 | 0.175 | ng/ul | 98 |
| 21) Benzo(b)fluoranthene | 22.98 | 252 | 44571m | 0.250 | ng/ul | |
| 22) Benzo(k)fluoranthene | 23.02 | 252 | 14777m | 0.081 | ng/ul | |
| 23) Benzo(a)pyrene | 23.57 | 252 | 24827 | 0.159 | ng/ul# | 78 |
| 24) Indeno(1,2,3-cd)pyrene | 25.97 | 276 | 16830 | 0.088 | ng/ul# | 96 |
| 25) Dibenzo(a,h)anthracene | 25.98 | 278 | 5051 | 0.033 | ng/ul# | 66 |
| 26) Benzo(g,h,i)perylene | 26.68 | 276 | 16733 | 0.110 | ng/ul | 96 |

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