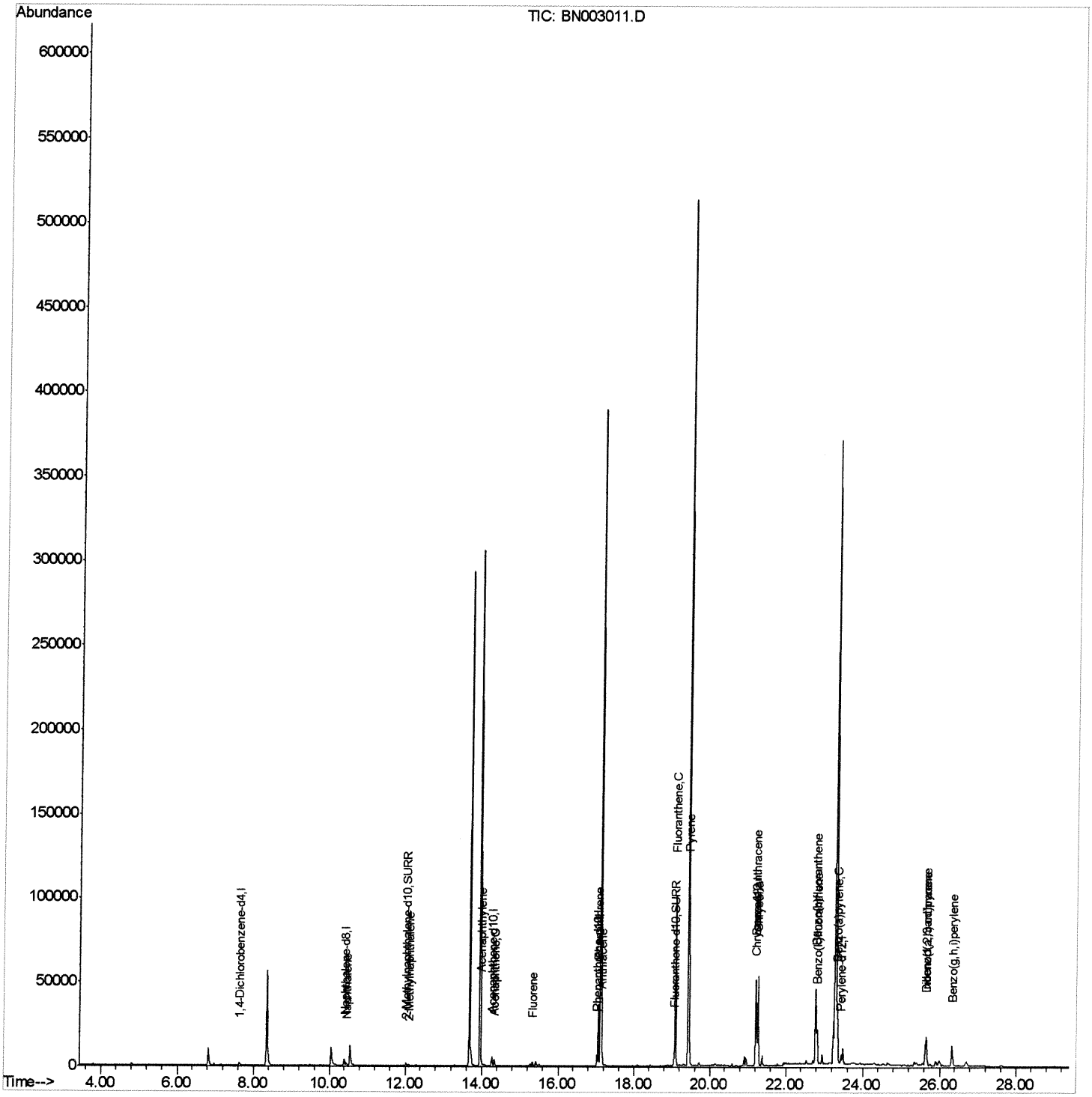
Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 09:01:57 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
JLC58

**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM



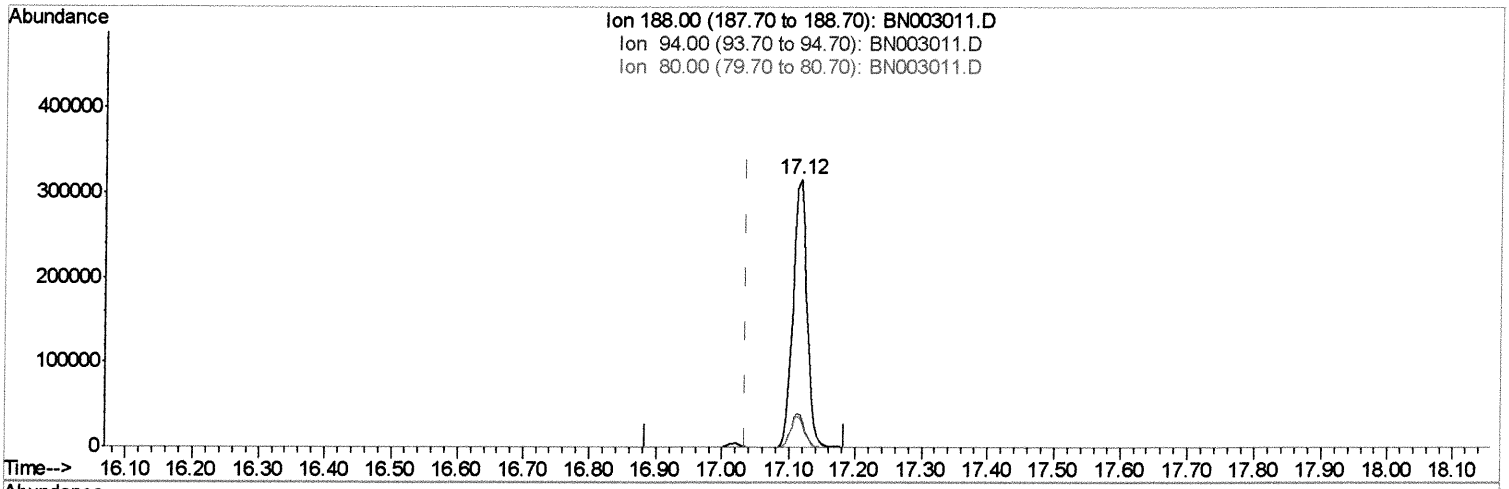
Quantitation Report (Qedit)

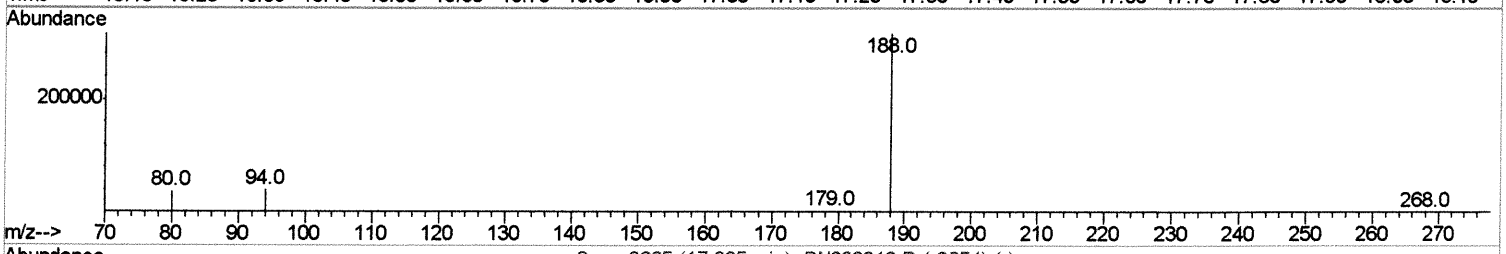
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

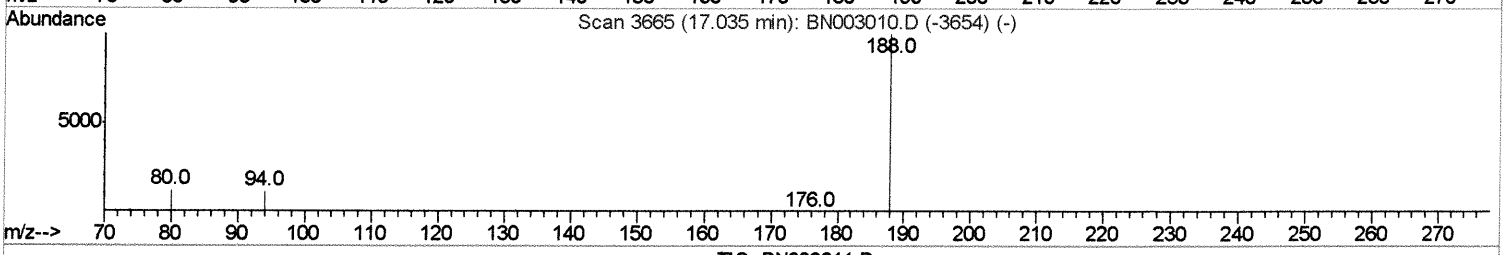
Quant Time: Oct 09 08:57:02 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
JLC58

**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM




TIC: BN003011.D

(10) Phenanthrene-d10 (I)

17.116min (+0.080) 0.40ng/ul

response 462532

| Ion | Exp% | Act% |
|---|---|---|
| 188.00 | 100 | 100 |
| 94.00 | 11.80 | 12.21 |
| 80.00 | 12.70 | 11.14 |
| 0.00 | 0.00 | 0.00 |

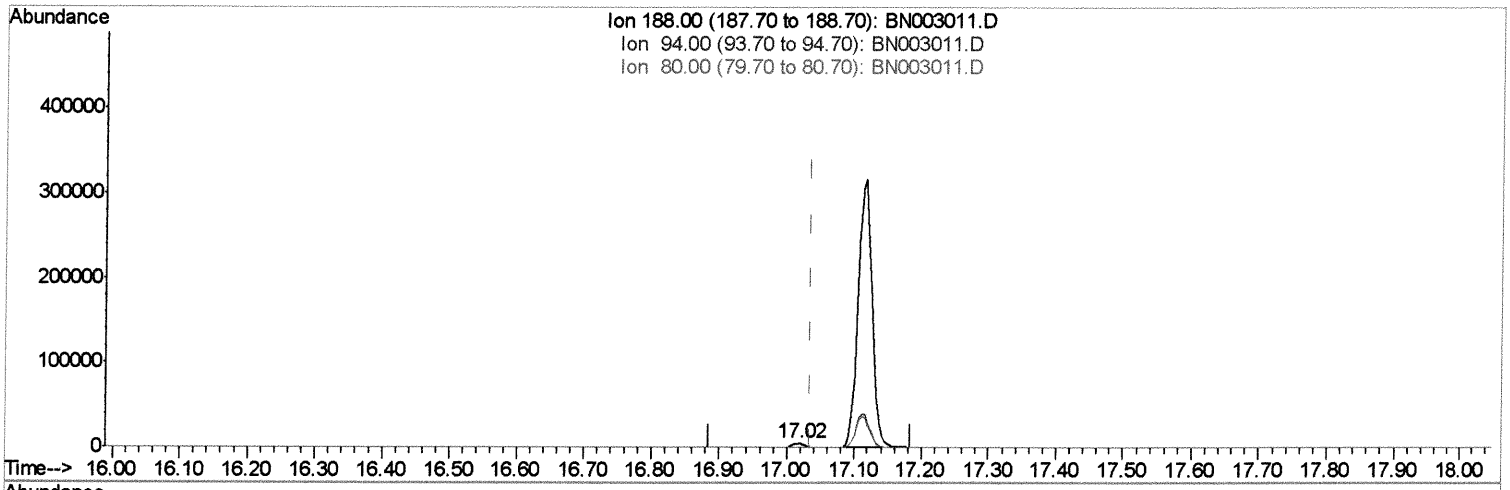
Quantitation Report (Qedit)

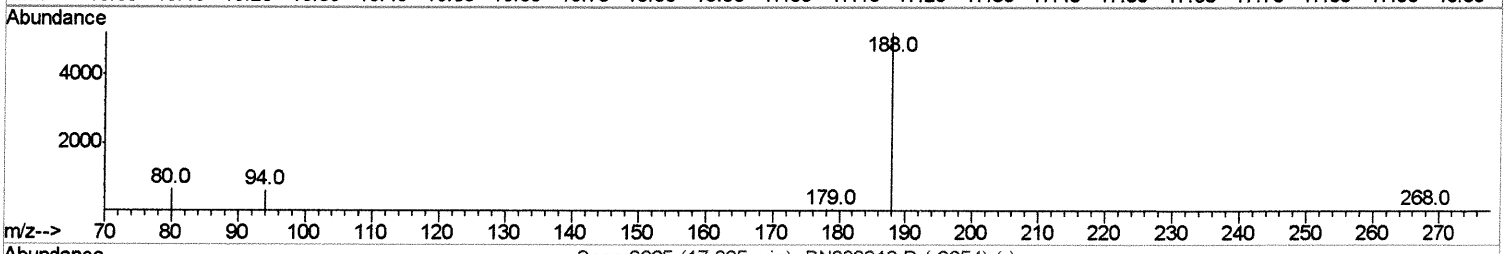
Instrument :
BNA_N
ClientSampleId :
JLC58

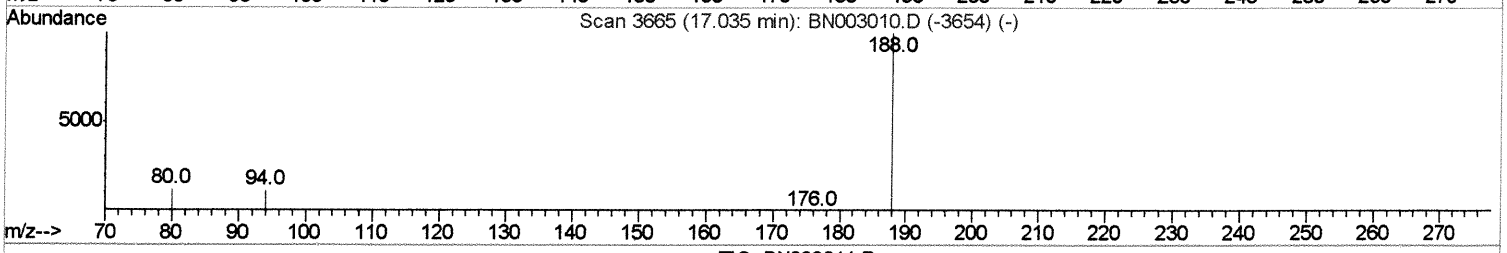
Manual Integrations APPROVED
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 08:57:02 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration




TIC: BN003011.D

(10) Phenanthrene-d10 (I)

17.019min (-0.017) 0.40ng/ul m SJ 10/10/18

response 7326

| Ion | Exp% | Act% |
|---|---|---|
| 188.00 | 100 | 100 |
| 94.00 | 11.80 | 11.96 |
| 80.00 | 12.70 | 12.90 |
| 0.00 | 0.00 | 0.00 |

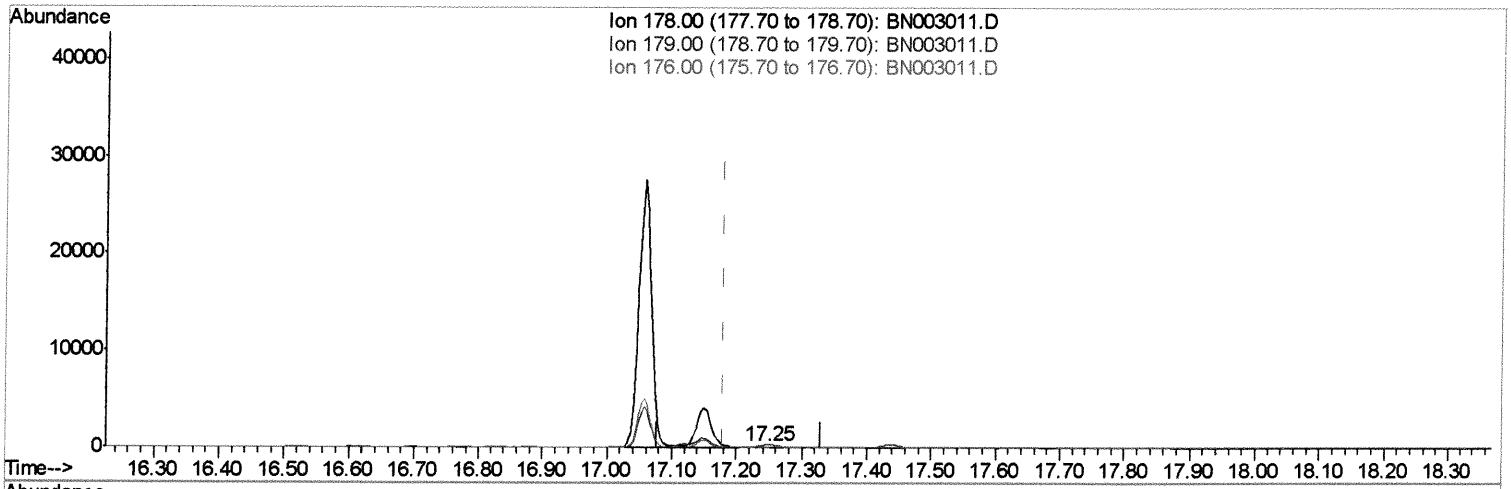
Quantitation Report (Qedit)

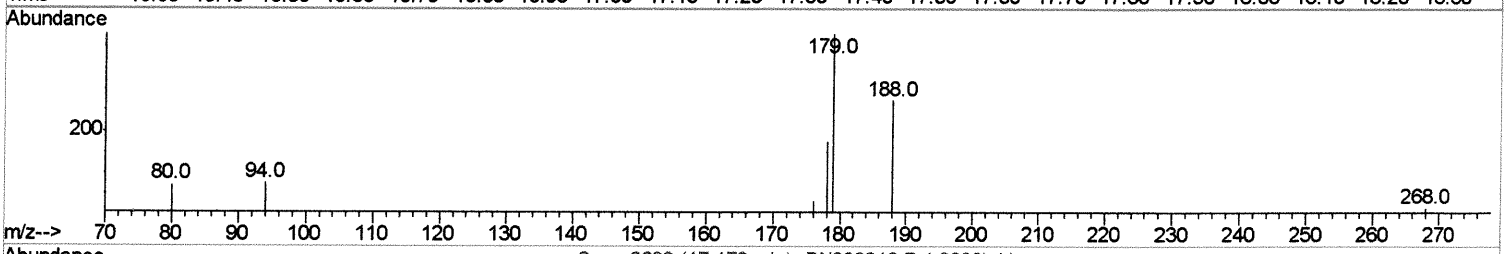
Instrument :
BNA_N
ClientSampleId :
JLC58

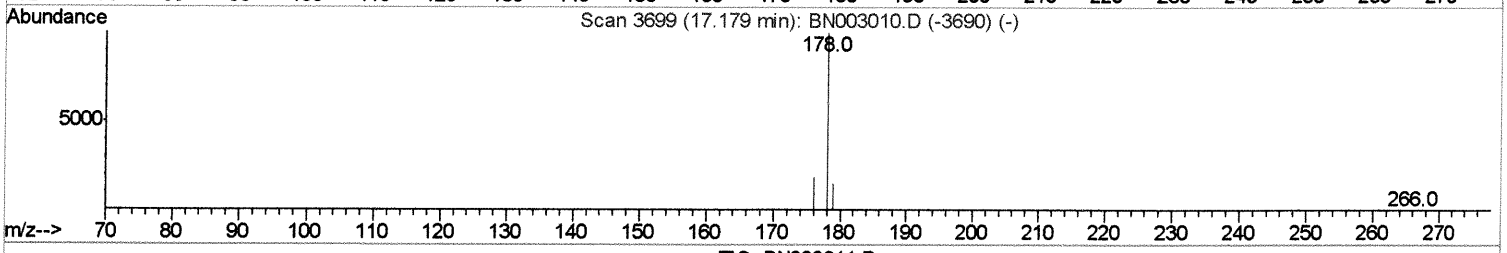
Manual Integrations APPROVED
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 08:59:40 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration




TIC: BN003011.D

(13) Anthracene

17.246min (+0.068) 0.01ng/ul

response 273

| Ion | Exp% | Act% |
|---|---|---|
| 178.00 | 100 | 100 |
| 179.00 | 16.30 | 213.33# |
| 176.00 | 19.10 | 37.22# |
| 0.00 | 0.00 | 0.00 |

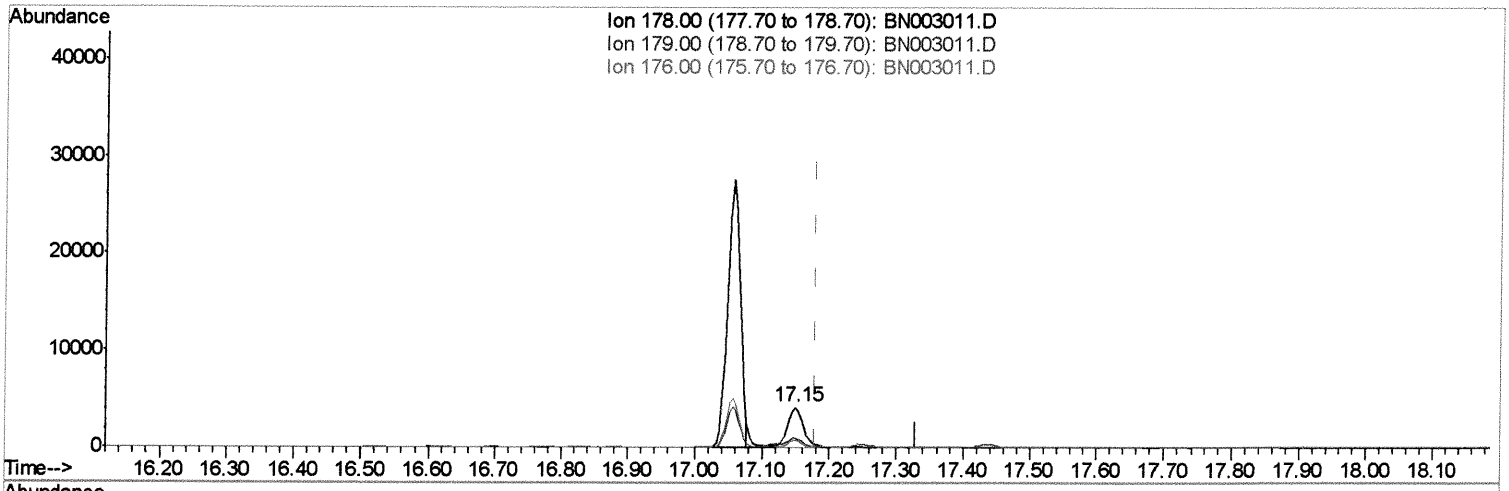
Quantitation Report (Qedit)

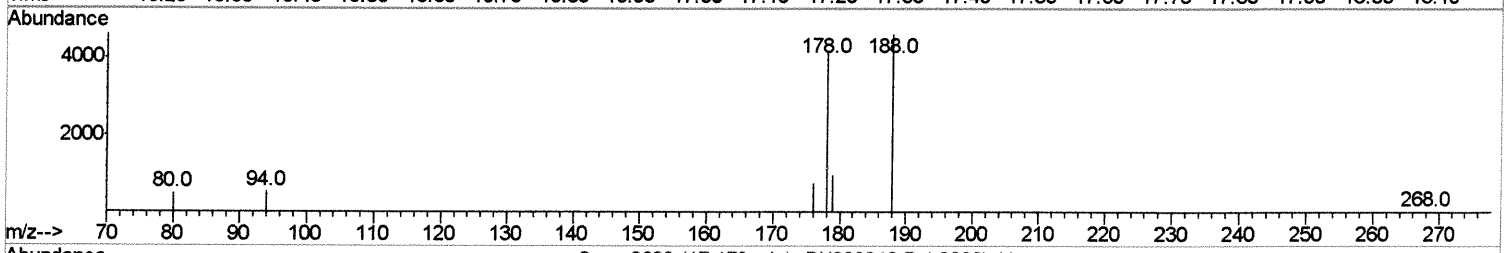
**Instrument :** BNA_N
**ClientSampleId :** JLC58

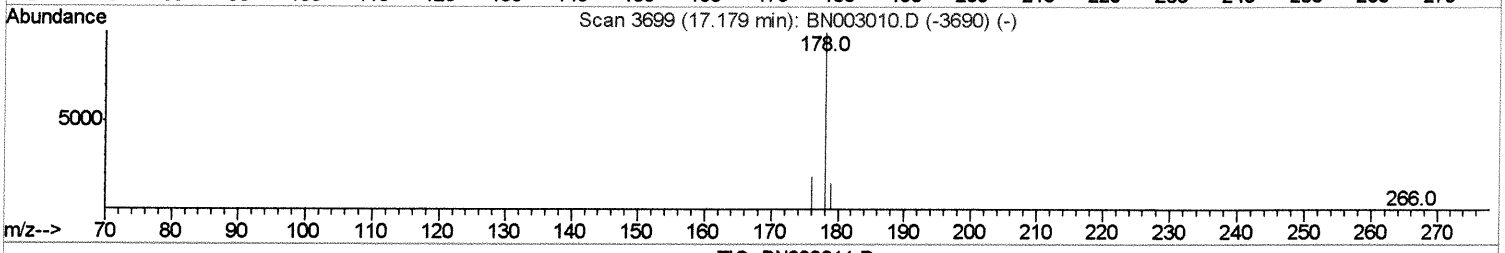
**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 08:59:40 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration




TIC: BN003011.D

(13) Anthracene

17.149min (-0.029) 0.34ng/ul m SJ 10/10/18

response 6607

| Ion | Exp% | Act% |
|---|---|---|
| 178.00 | 100 | 100 |
| 179.00 | 16.30 | 23.75# |
| 176.00 | 19.10 | 18.59 |
| 0.00 | 0.00 | 0.00 |

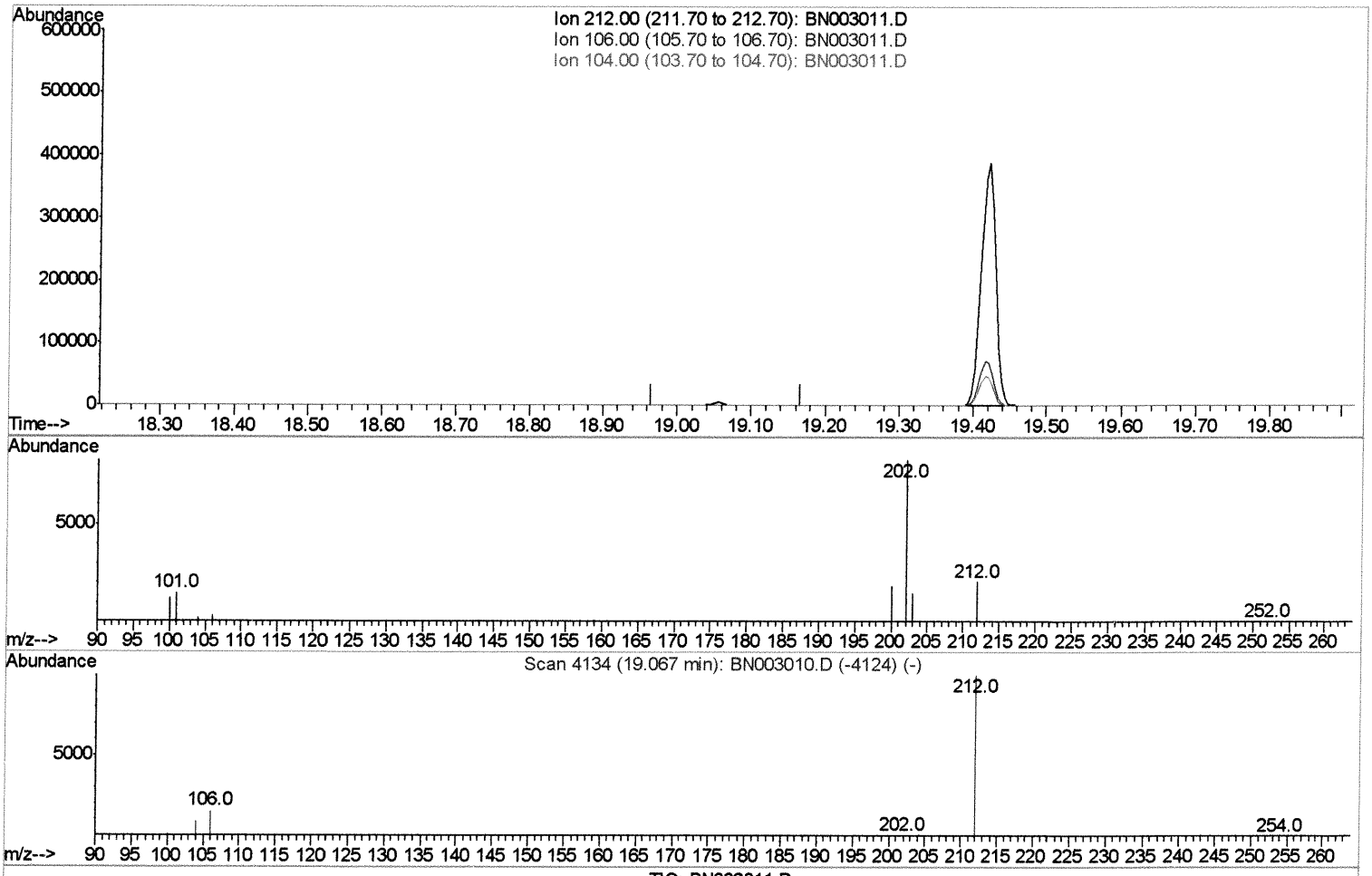
Quantitation Report (Qedit)

Instrument :
BNA_N
ClientSampleId :
JLC58

Manual Integrations APPROVED
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 08:59:40 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration




TIC: BN003011.D

(14) Fluoranthene-d10 (SURR)

19.067min (-19.067) 0.00ng/ul

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 212.00 | 100 | 0.00 |
| 106.00 | 15.40 | 0.00# |
| 104.00 | 8.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |

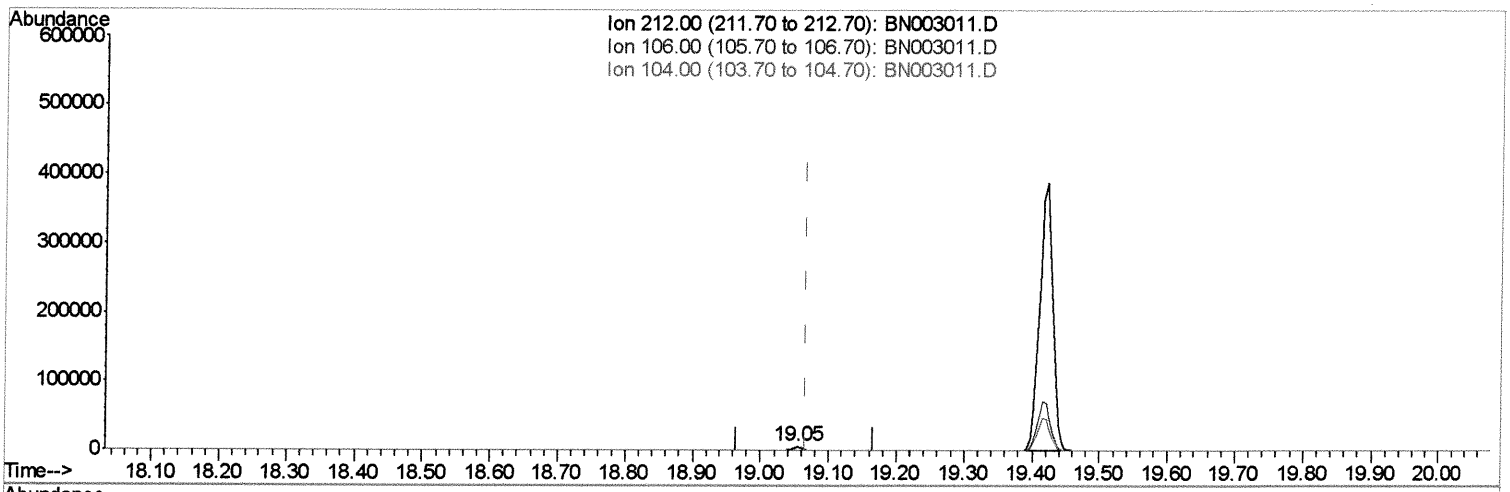
Quantitation Report (Qedit)

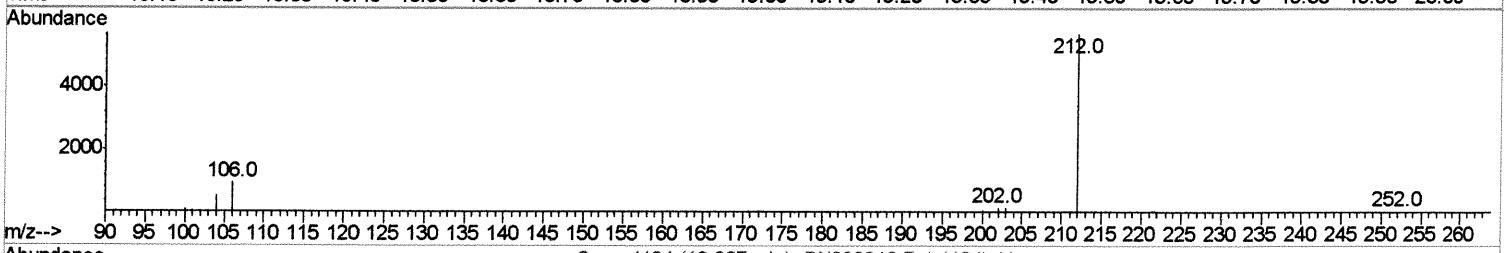
**Instrument :** BNA_N
**ClientSampleId :** JLC58

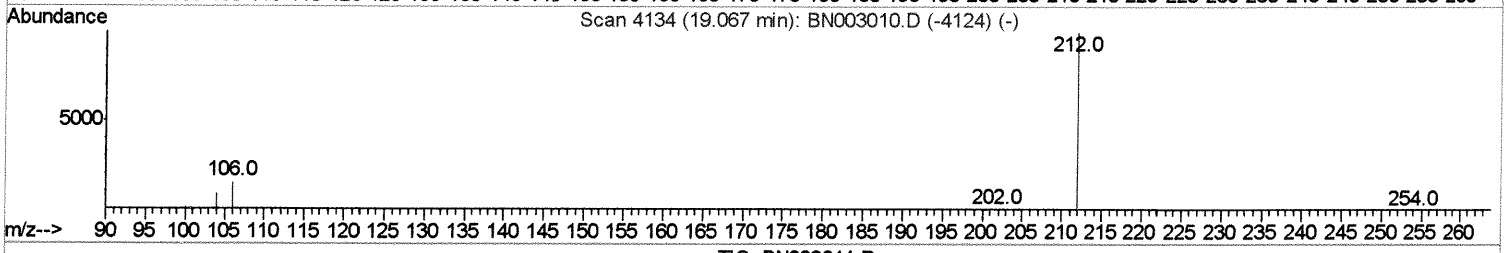
**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 08:59:40 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration




TIC: BN003011.D

(14) Fluoranthene-d10 (SURR)

19.053min (-0.014) 0.36ng/ul m SJ 10/10/18

response 7454

| Ion | Exp% | Act% |
|---|---|---|
| 212.00 | 100 | 100 |
| 106.00 | 15.40 | 0.00# |
| 104.00 | 8.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |

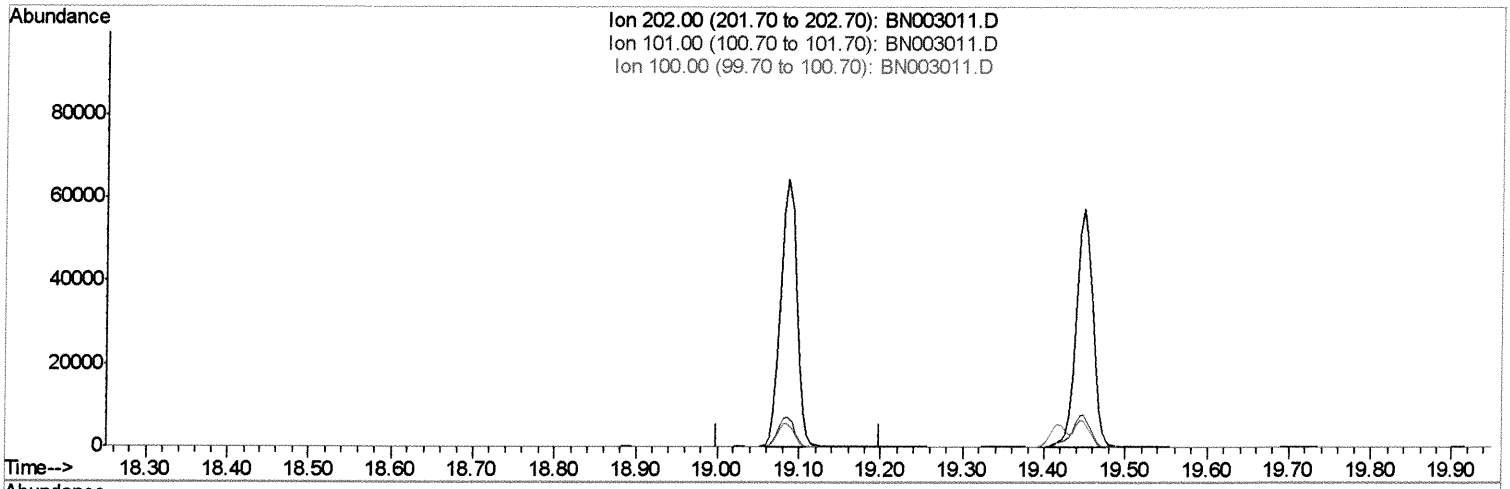
Quantitation Report (Qedit)

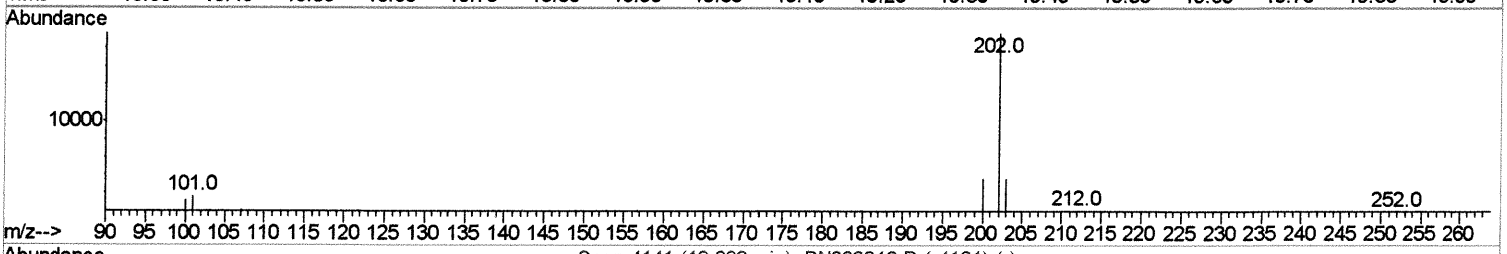
**Instrument :** BNA_N
**ClientSampleId :** JLC58

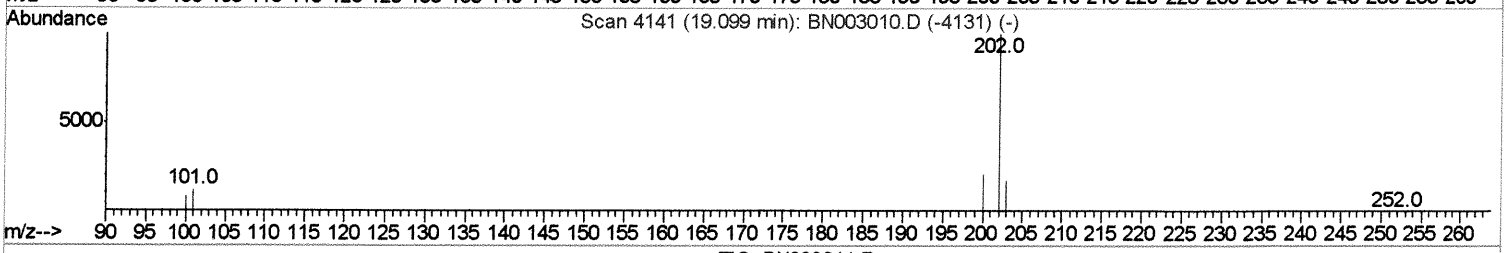
**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 08:59:40 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration




TIC: BN003011.D

(15) Fluoranthene (C)

19.099min (-19.099) 0.00ng/ul

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 0.00 |
| 101.00 | 12.30 | 0.00 |
| 100.00 | 9.10 | 0.00 |
| 0.00 | 0.00 | 0.00 |

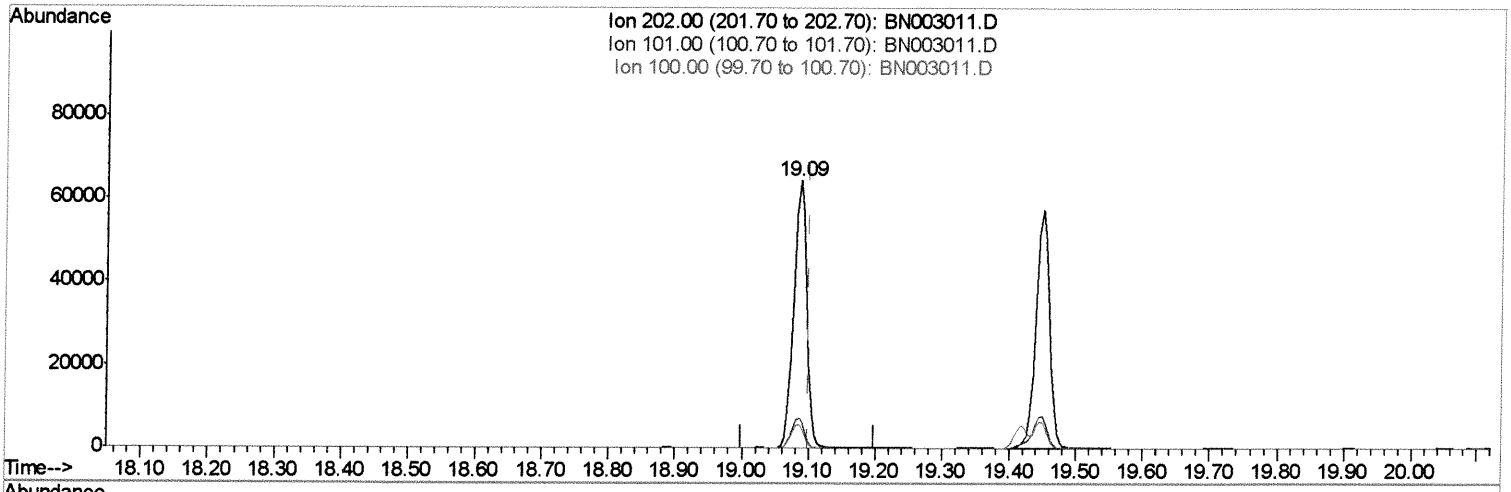
Quantitation Report (Qedit)

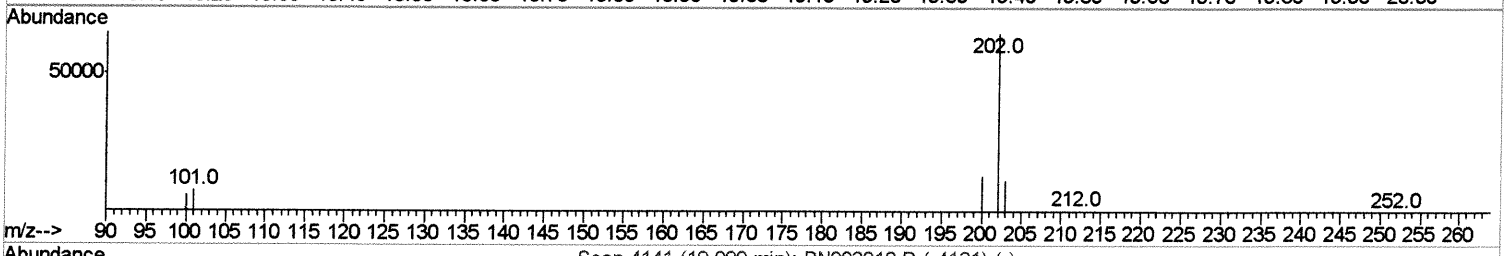
**Instrument :** BNA_N
**ClientSampleId :** JLC58

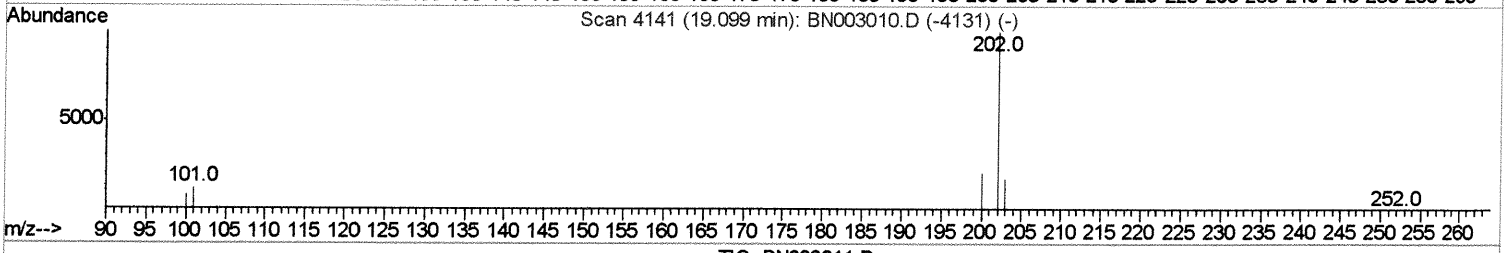
**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 08:59:40 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration




TIC: BN003011.D

(15) Fluoranthene (C)

19.085min (-0.014) 3.72ng/ul m SJ 10/10/18

response 89107

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 12.30 | 11.59 |
| 100.00 | 9.10 | 8.70 |
| 0.00 | 0.00 | 0.00 |

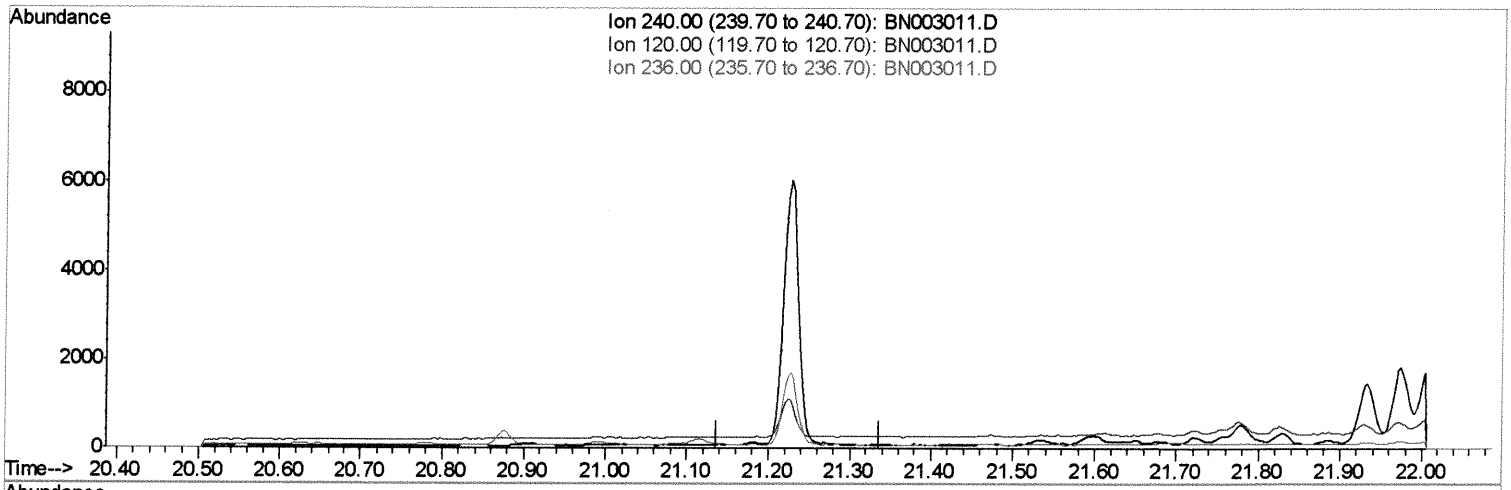
Quantitation Report (Qedit)

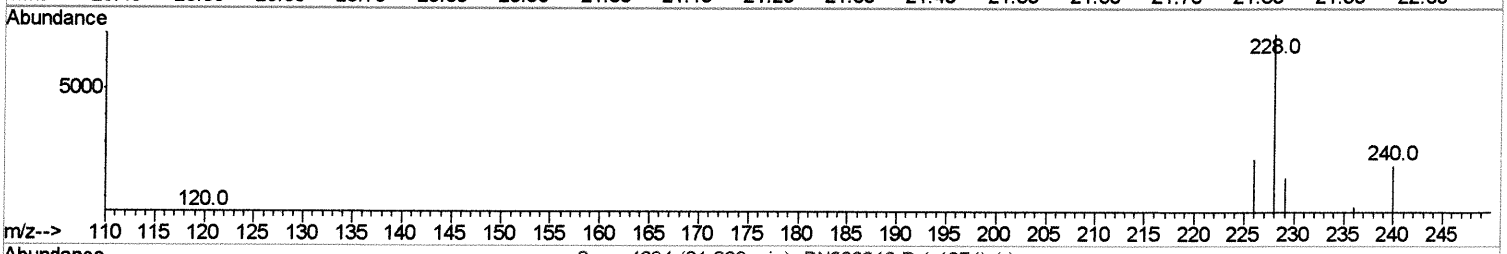
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

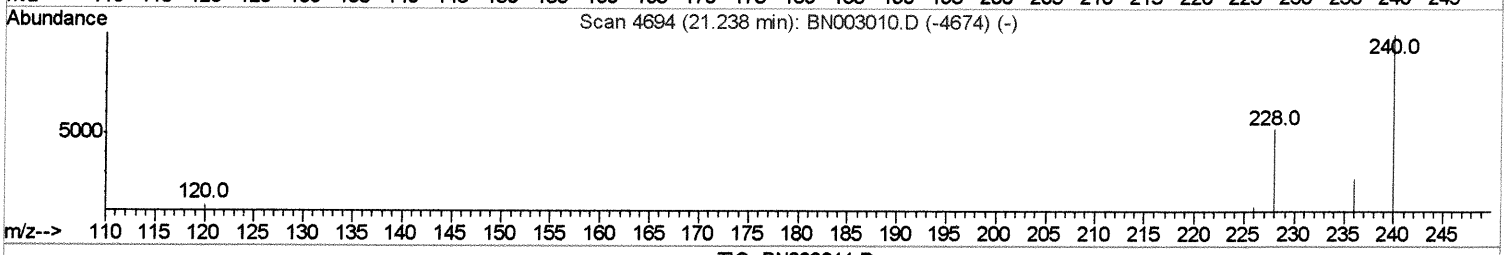
Quant Time: Oct 09 08:59:40 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
JLC58

**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM




TIC: BN003011.D

(16) Chrysene-d12 (I)

21.238min (-21.238) 0.00ng/ul

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 240.00 | 100 | 0.00 |
| 120.00 | 16.40 | 0.00# |
| 236.00 | 28.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

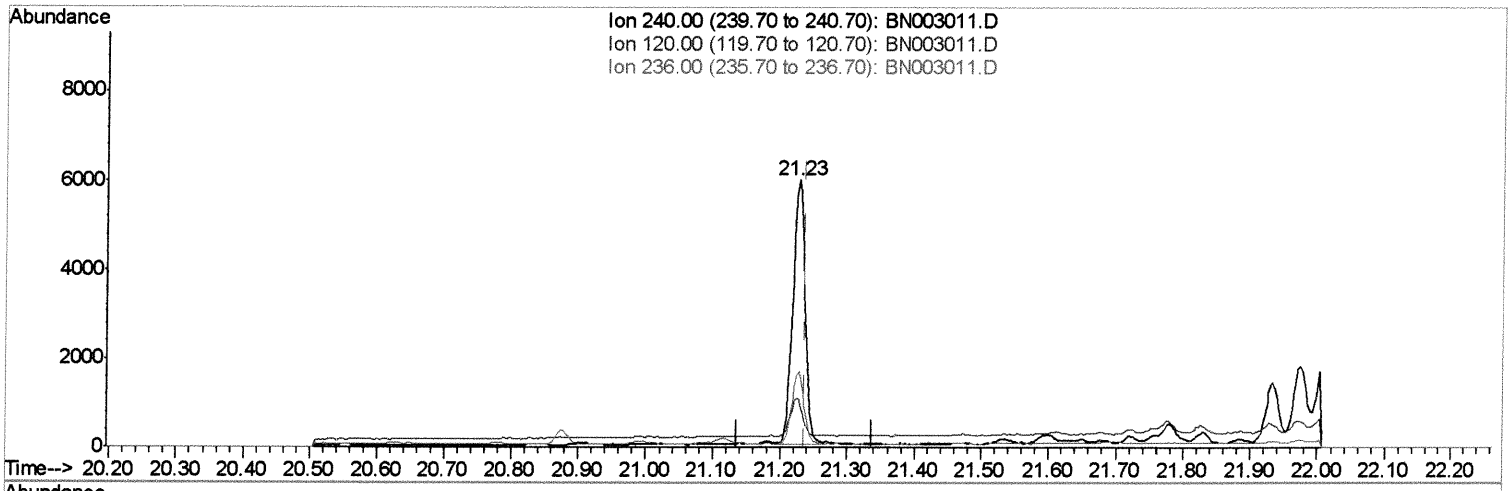
Quantitation Report (Qedit)

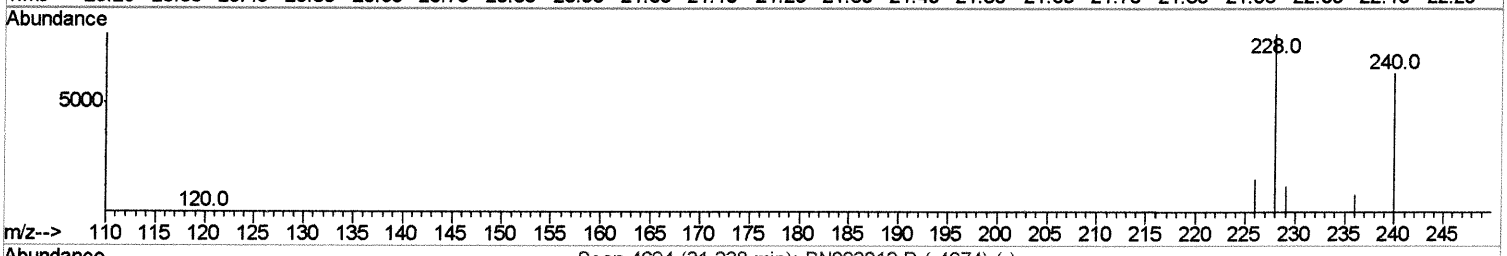
**Instrument :** BNA_N
**ClientSampleId :** JLC58

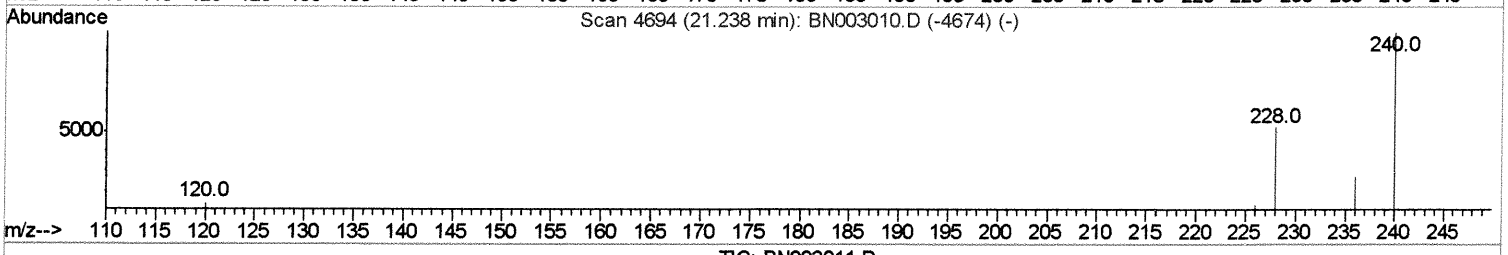
**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 08:59:40 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration




TIC: BN003011.D

(16) Chrysene-d12 (I)

21.226min (-0.012) 0.40ng/ul m SJ 10/10/18

response 7461

| Ion | Exp% | Act% |
|---|---|---|
| 240.00 | 100 | 100 |
| 120.00 | 16.40 | 18.09 |
| 236.00 | 28.10 | 28.42 |
| 0.00 | 0.00 | 0.00 |

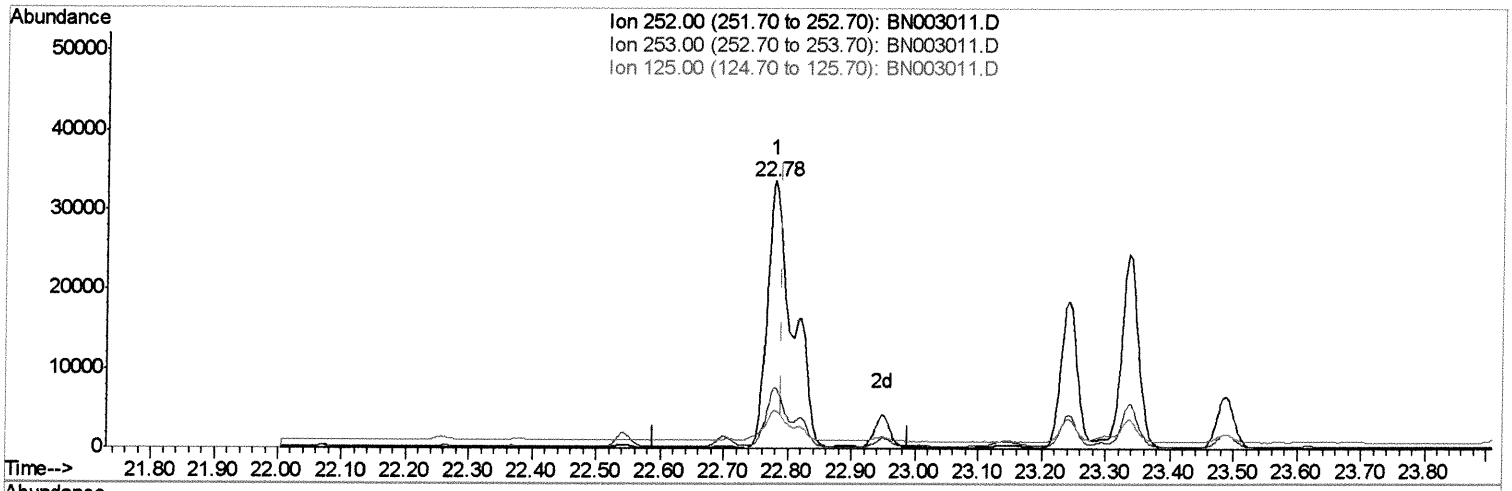
Quantitation Report (Qedit)

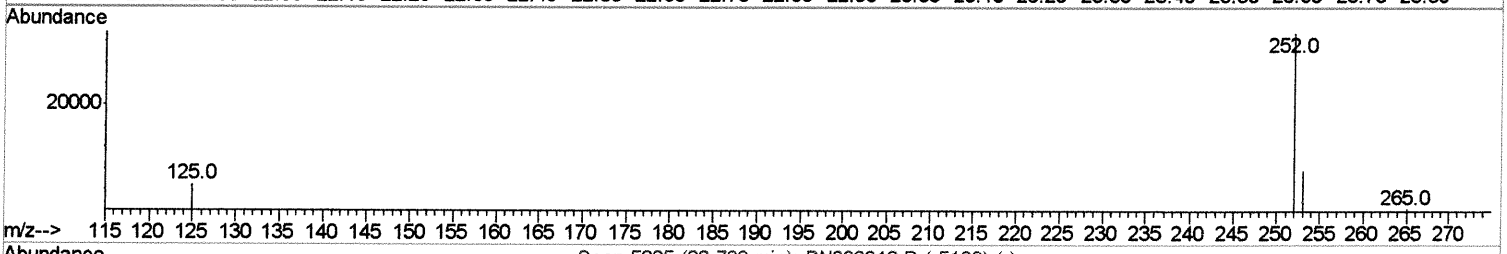
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

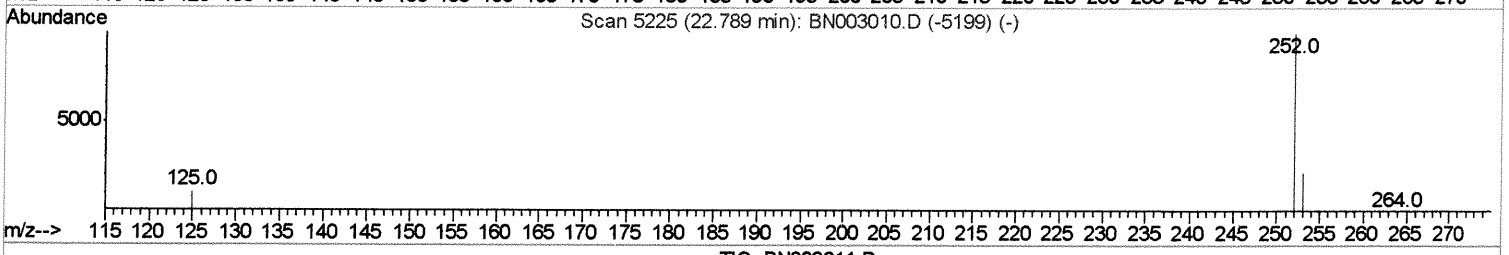
Quant Time: Oct 09 09:00:51 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
JLC58

**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM




TIC: BN003011.D

(21) Benzo(b)fluoranthene

22.778min (-0.012) 3.37ng/ul

response 92279

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 26.60 | 23.03 |
| 125.00 | 17.10 | 14.36 |
| 0.00 | 0.00 | 0.00 |

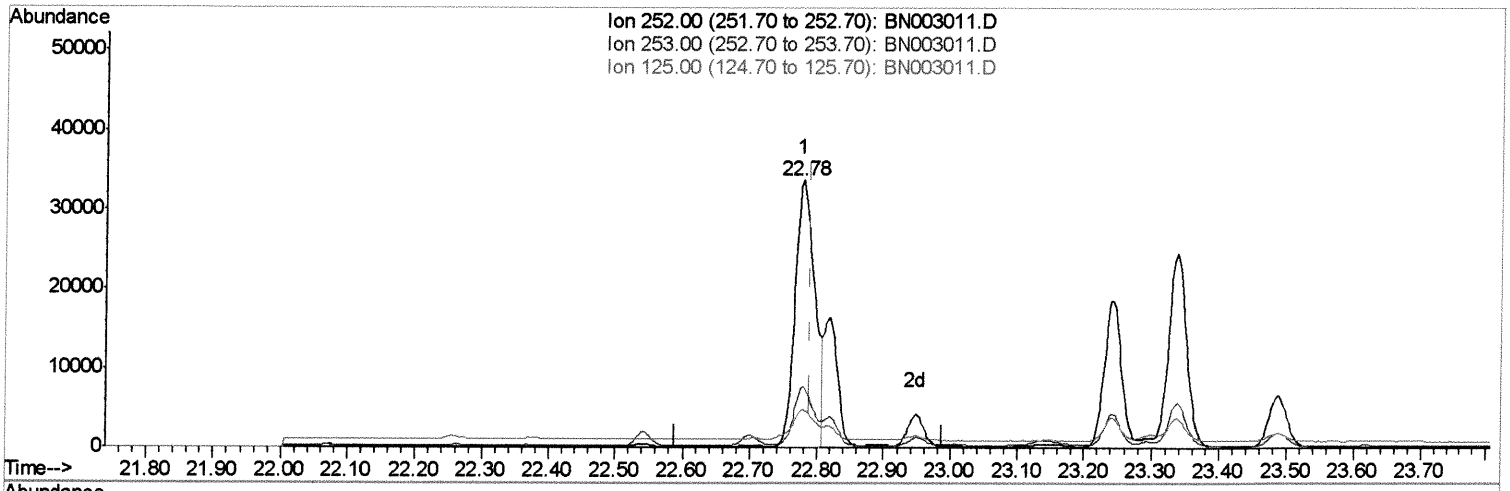
Quantitation Report (Qedit)

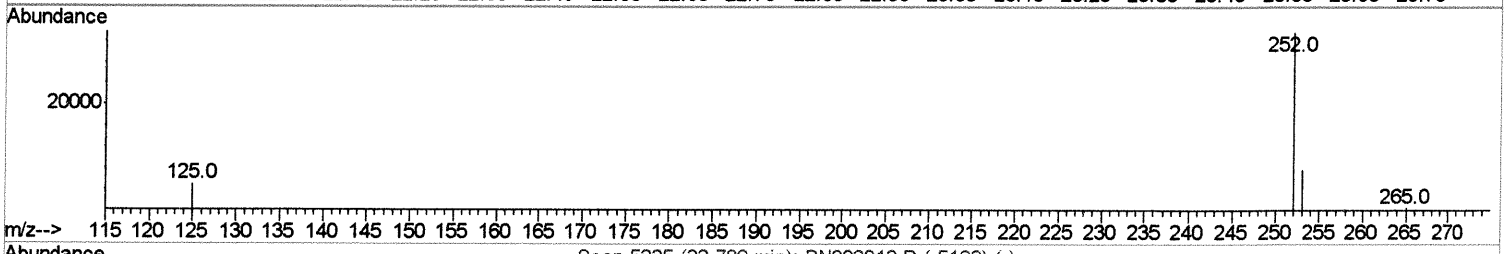
**Instrument :** BNA_N
**ClientSampleId :** JLC58

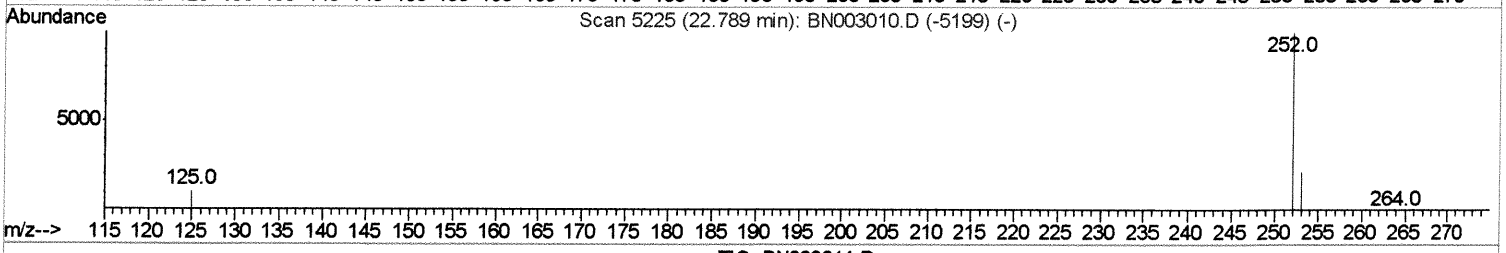
**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 09:00:51 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration




TIC: BN003011.D

(21) Benzo(b)fluoranthene

22.778min (-0.012) 2.54ng/ul m SJ 10/10/18

response 69645

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 26.60 | 23.03 |
| 125.00 | 17.10 | 14.36 |
| 0.00 | 0.00 | 0.00 |

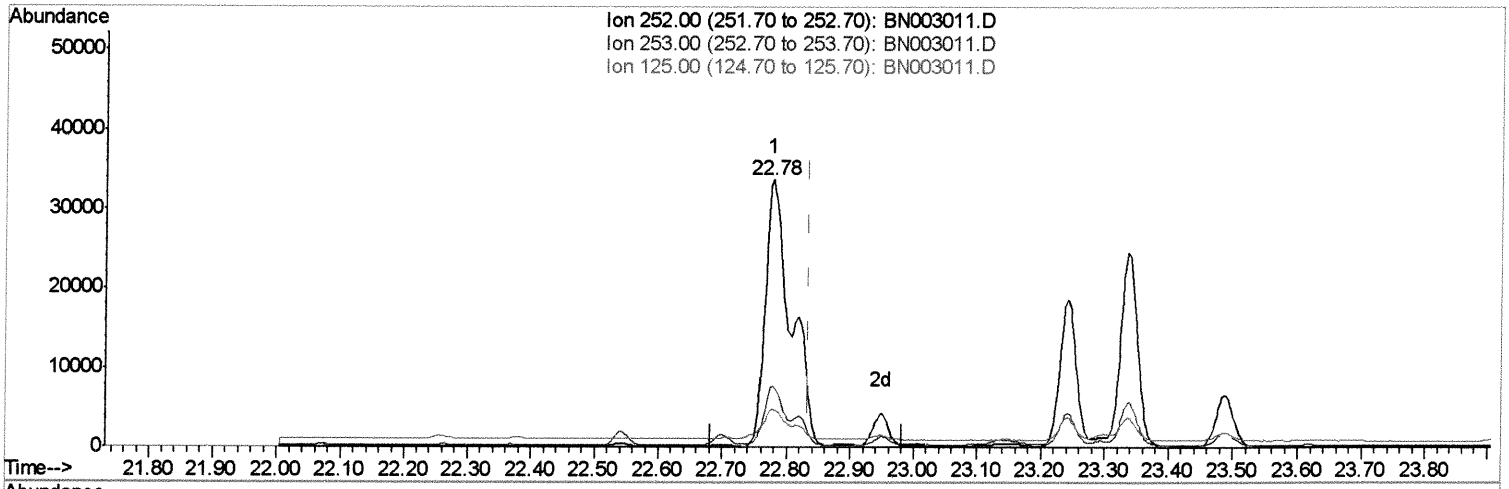
Quantitation Report (Qedit)

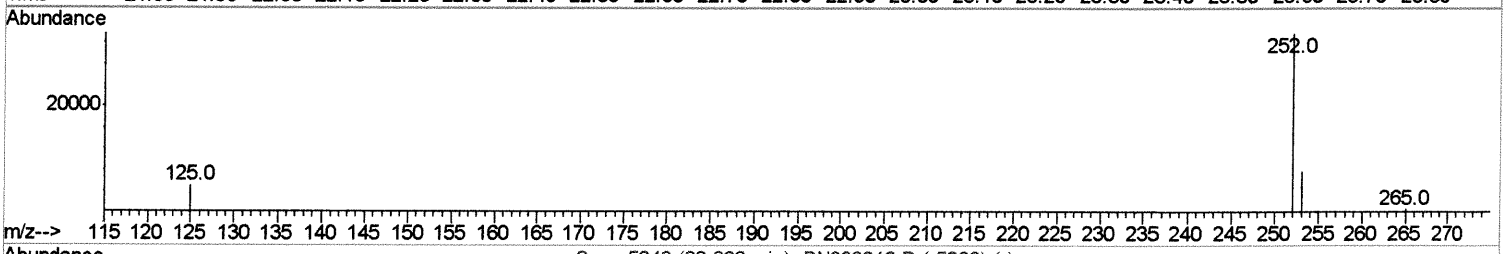
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

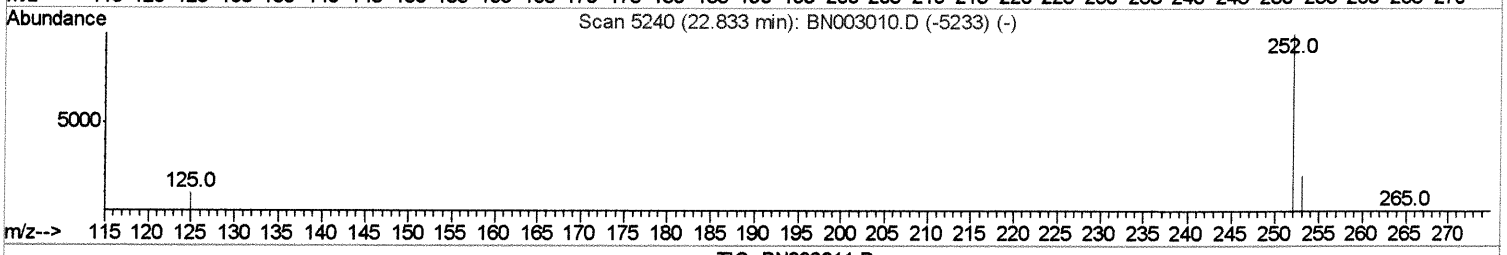
Quant Time: Oct 09 09:00:51 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration

**Instrument :**
BNA_N
**ClientSampleId :**
JLC58

**Manual Integrations APPROVED**
Sohil
10/9/2018 5:38:23 PM




TIC: BN003011.D

(22) Benzo(k)fluoranthene

22.778min (-0.055) 3.25ng/ul

response 92264

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 26.60 | 23.03 |
| 125.00 | 17.60 | 14.36 |
| 0.00 | 0.00 | 0.00 |

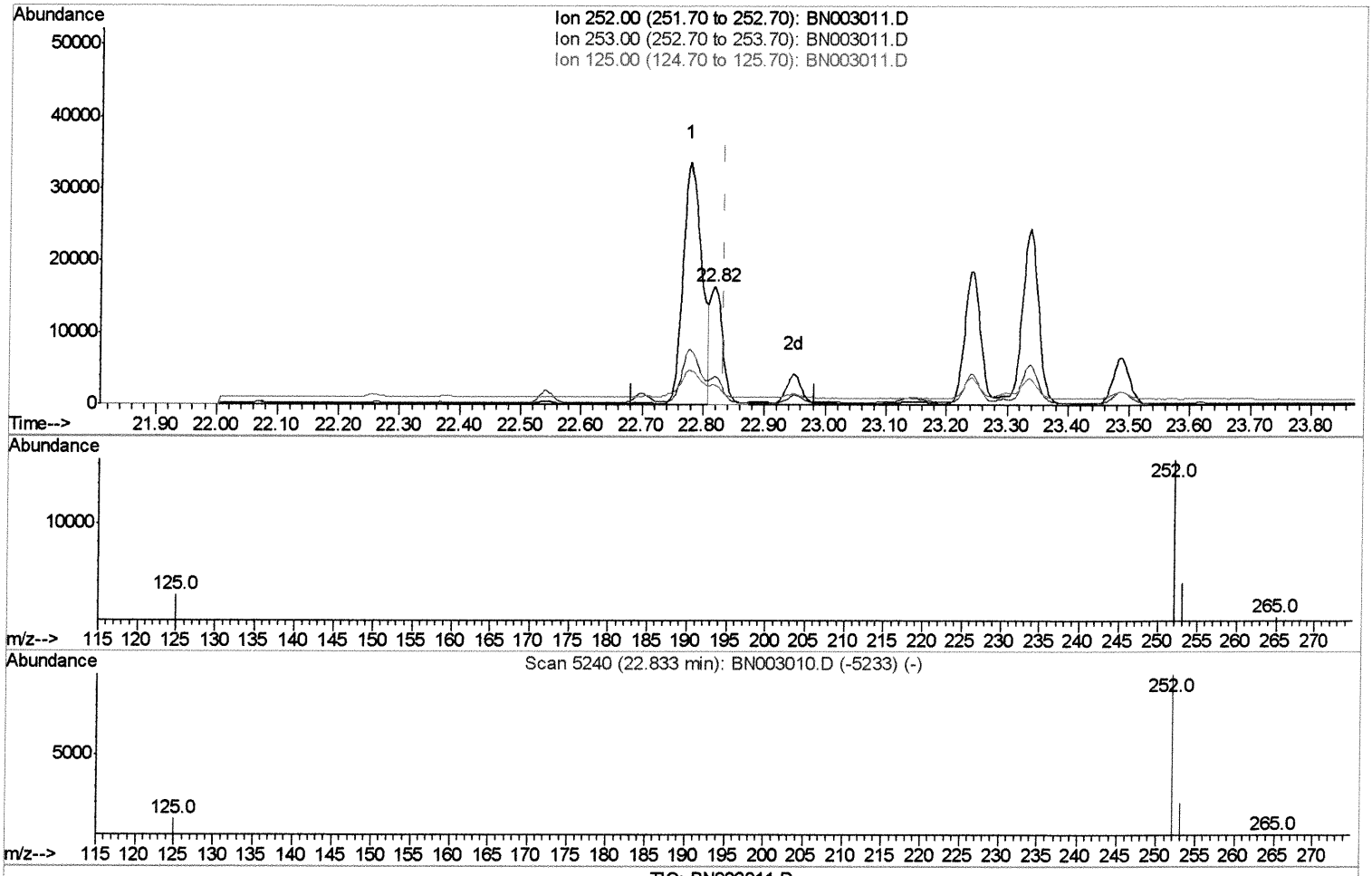
Quantitation Report (Qedit)

Instrument :
BNA_N
ClientSampleId :
JLC58

Manual Integrations APPROVED
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 09:00:51 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration




TIC: BN003011.D

(22) Benzo(k)fluoranthene

22.819min (-0.014) 0.82ng/ul m SJ 10/10/18

response 23256

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 26.60 | 23.90 |
| 125.00 | 17.60 | 16.43 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Instrument :
BNA_N
ClientSampleId :
JLC58

Manual Integrations APPROVED
Sohil
10/9/2018 5:38:23 PM

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100918\
Data File : BN003011.D
Acq On : 09 Oct 2018 05:30
Operator : MJ/SJ
Sample : J5116-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 09 09:01:57 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN100918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 09 08:56:18 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.63 | 152 | 1223 | 0.40 | ng/ul | -0.02 | |
| 2) Naphthalene-d8 | 10.39 | 136 | 5247 | 0.40 | ng/ul | -0.02 | |
| 6) Acenaphthene-d10 | 14.26 | 164 | 3165 | 0.40 | ng/ul | 0.00 | |
| 10) Phenanthrene-d10 | 17.02 | 188 | 7326m | 0.40 | ng/ul | -0.02 | > SJ 10/10/18 |
| 16) Chrysene-d12 | 21.23 | 240 | 7461m | 0.40 | ng/ul | -0.01 | |
| 20) Perylene-d12 | 23.44 | 264 | 7609 | 0.40 | ng/ul | -0.01 | |
| **System Monitoring Compounds** | | | | | | | |
| 4) 2-Methylnaphthalene-d10 | 12.01 | 152 | 2778 | 0.34 | ng/ul | -0.01 | SJ 10/10/18 |
| 14) Fluoranthene-d10 | 19.05 | 212 | 7454m | 0.36 | ng/ul | -0.01 | |
| **Target Compounds** | | | | | | Qvalue | |
| 3) Naphthalene | 10.44 | 128 | 2157 | 0.160 | ng/ul | 95 | |
| 5) 2-Methylnaphthalene | 12.09 | 142 | 369 | 0.040 | ng/ul | 96 | |
| 7) Acenaphthylene | 13.98 | 152 | 497 | 0.034 | ng/ul# | 70 | |
| 8) Acenaphthene | 14.33 | 153 | 2325 | 0.212 | ng/ul | 99 | |
| 9) Fluorene | 15.32 | 166 | 1689 | 0.134 | ng/ul# | 97 | |
| 12) Phenanthrene | 17.06 | 178 | 37522 | 1.837 | ng/ul | 99 | |
| 13) Anthracene | 17.15 | 178 | 6607m | 0.343 | ng/ul | | > SJ 10/10/18 |
| 15) Fluoranthene | 19.09 | 202 | 89107m | 3.719 | ng/ul | | |
| 17) Pyrene | 19.45 | 202 | 82233 | 2.838 | ng/ul | 97 | |
| 18) Benzo(a)anthracene | 21.21 | 228 | 43117 | 1.796 | ng/ul | 99 | |
| 19) Chrysene | 21.26 | 228 | 51296 | 2.104 | ng/ul | 99 | |
| 21) Benzo(b)fluoranthene | 22.78 | 252 | 69645m | 2.542 | ng/ul | | > SJ 10/10/18 |
| 22) Benzo(k)fluoranthene | 22.82 | 252 | 23256m | 0.819 | ng/ul | | |
| 23) Benzo(a)pyrene | 23.34 | 252 | 45026 | 1.833 | ng/ul# | 89 | |
| 24) Indeno(1,2,3-cd)pyrene | 25.65 | 276 | 27445 | 0.972 | ng/ul# | 92 | |
| 25) Dibenzo(a,h)anthracene | 25.64 | 278 | 6425 | 0.284 | ng/ul# | 95 | |
| 26) Benzo(g,h,i)perylene | 26.32 | 276 | 24159 | 1.015 | ng/ul | 95 | |

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