Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
Data File : BN007240.D
Acq On : 17 Aug 2019 02:40
Operator : HP/JU
Sample : K4282-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :

Manual Integrations APPROVED

Quant Time: Aug 19 04:50:40 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 13 12:12:02 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.42 | 152 | 7139 | 0.40 | ng | | -0.02 |
| 6) Naphthalene-d8 | 10.17 | 136 | 27540 | 0.40 | ng | | -0.01 |
| 12) Acenaphthene-d10 | 14.07 | 164 | 16224 | 0.40 | ng | | -0.01 |
| 18) Phenanthrene-d10 | 16.81 | 188 | 37036 | 0.40 | ng | | -0.01 |
| 26) Chrysene-d12 | 21.03 | 240 | 35899 | 0.40 | ng | | -0.02 |
| 32) Perylene-d12 | 23.15 | 264 | 42457 | 0.40 | ng | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 3) 2-Fluorophenol | 5.05 | 112 | 5645 | 0.33 | ng | | 0.00 |
| 4) Phenol-d6 | 6.61 | 99 | 7423 | 0.35 | ng | | 0.00 |
| 7) Nitrobenzene-d5 | 8.55 | 82 | 6731 | 0.30 | ng | | -0.01 |
| 10) 2-Methylnaphthalene-d10 | 11.78 | 152 | 12348 | 0.24 | ng | | -0.01 |
| 13) 2,4,6-Tribromophenol | 15.57 | 330 | 2445 | 0.28 | ng | | 0.00 |
| 14) 2-Fluorobiphenyl | 12.71 | 172 | 824 | 0.03 | ng | | 0.00 |
| 24) Fluoranthene-d10 | 18.86 | 212 | 26400 | 0.20 | ng | | -0.01 |
| 28) Terphenyl-d14 | 19.48 | 244 | 18560 | 0.19 | ng | | -0.02 |
| **Target Compounds** | | | | | | | Qvalue |
| 8) Naphthalene | 10.22 | 128 | 44618 | 0.578 | ng | | 100 |
| 11) 2-Methylnaphthalene | 11.86 | 142 | 29760 | 0.544 | ng | | 98 |
| 15) Acenaphthylene | 13.78 | 152 | 302903 | 3.572 | ng | | 100 |
| 16) Acenaphthene | 14.13 | 154 | 20426 | 0.376 | ng | | 97 |
| 17) Fluorene | 15.12 | 166 | 50274 | 0.619 | ng | # | 83 |
| 21) Pentachlorophenol | 16.47 | 266 | 494 | 0.060 | ng | | 96 |
| 22) Phenanthrene | 16.86 | 178 | 726875 | 6.549 | ng | | 100 |
| 23) Anthracene | 16.95 | 178 | 329884 | 3.253 | ng | | 99 |
| 25) Fluoranthene | 18.89 | 202 | 1540503 | 10.850 | ng | | 99 |
| 27) Pyrene | 19.25 | 202 | 1588322 | 12.616 | ng | | 97 |
| 29) Benzo(a)anthracene | 21.02 | 228 | 923616m | 7.035 | ng | | |
| 30) Chrysene | 21.08 | 228 | 1015486 | 7.961 | ng | | 97 |
| 31) Indeno(1,2,3-cd)pyrene | 25.23 | 276 | 631145 | 4.489 | ng | | 99 |
| 33) Benzo(b)fluoranthene | 22.53 | 252 | 1405527 | 9.654 | ng | | 100 |
| 34) Benzo(k)fluoranthene | 22.57 | 252 | 465439m | 3.237 | ng | | |
| 35) Benzo(a)pyrene | 23.06 | 252 | 804696 | 6.097 | ng | | 99 |
| 36) Dibenzo(a,h)anthracene | 25.24 | 278 | 168007 | 1.276 | ng | # | 91 |
| 37) Benzo(g,h,i)perylene | 25.86 | 276 | 625567 | 4.618 | ng | | 99 |

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

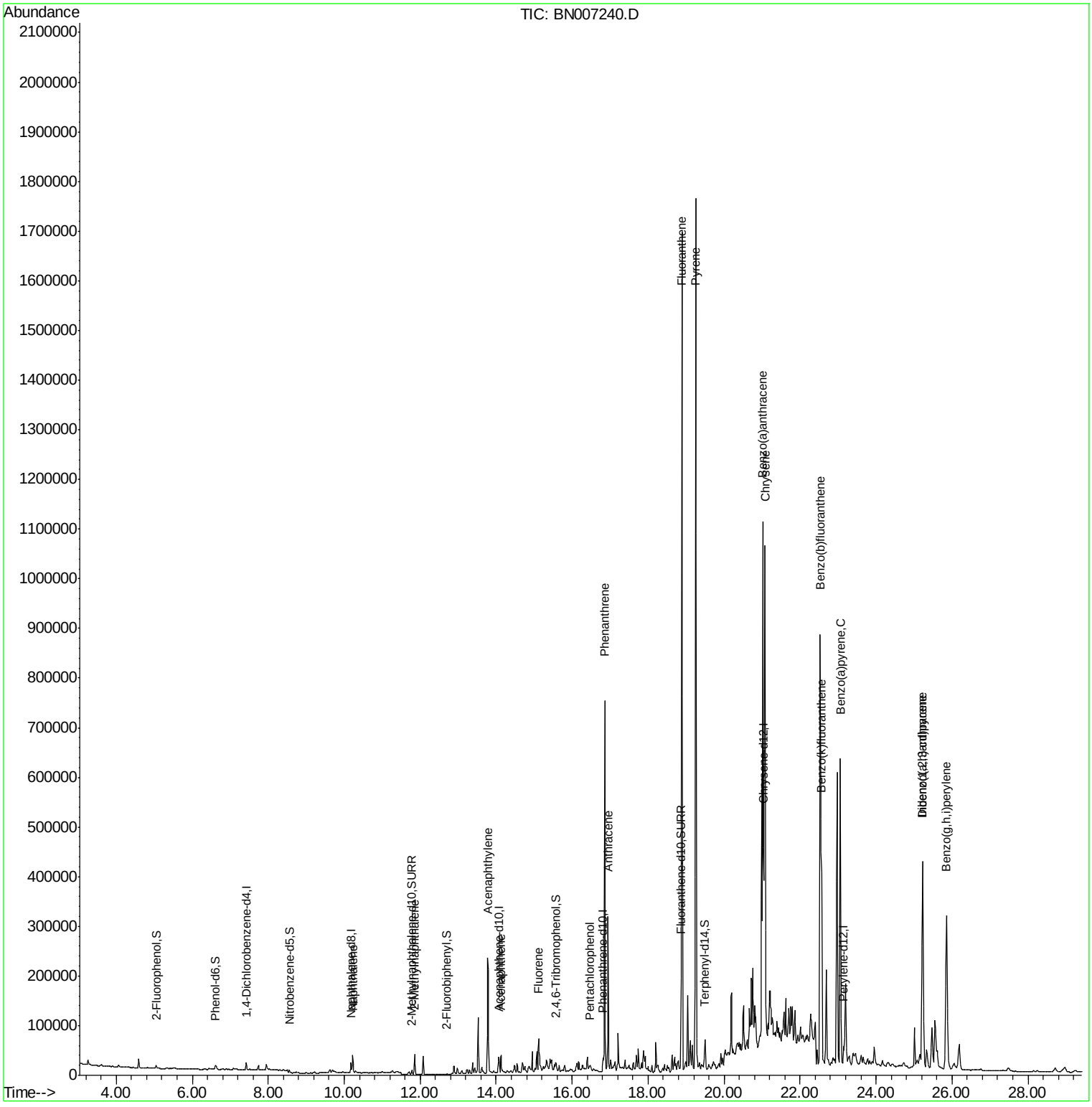
Quantitation Report (QT Reviewed)

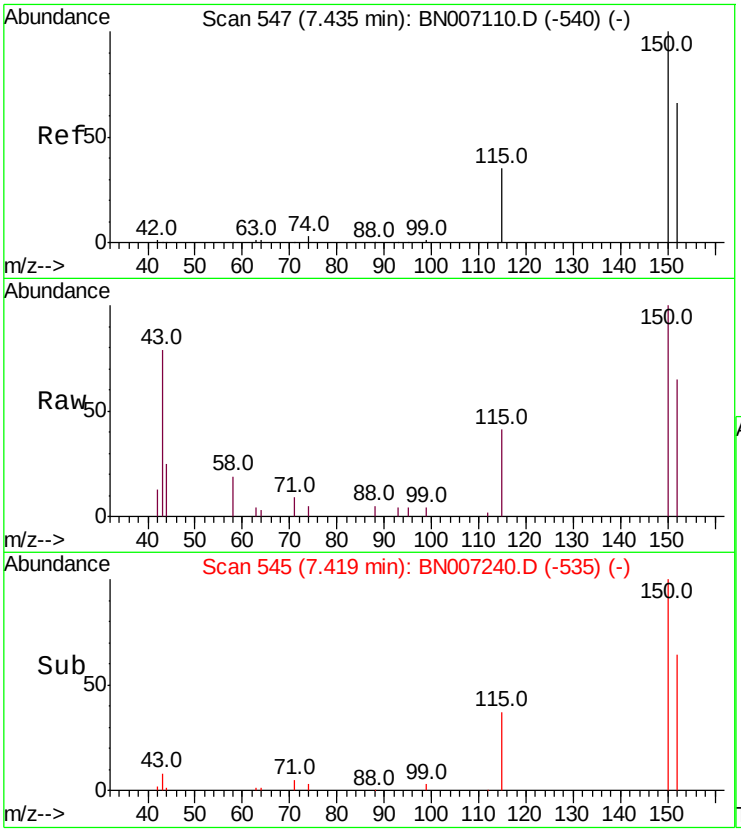
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
Data File : BN007240.D
Acq On : 17 Aug 2019 02:40
Operator : HP/JU
Sample : K4282-20
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 19 04:50:40 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 13 12:12:02 2019
Response via : Initial Calibration

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

**Manual Integrations APPROVED**

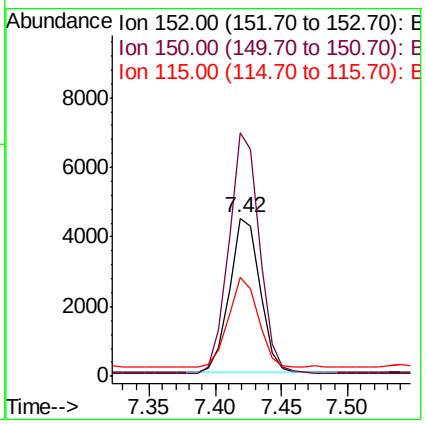





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.42 min Scan# 545
Delta R.T. -0.02 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

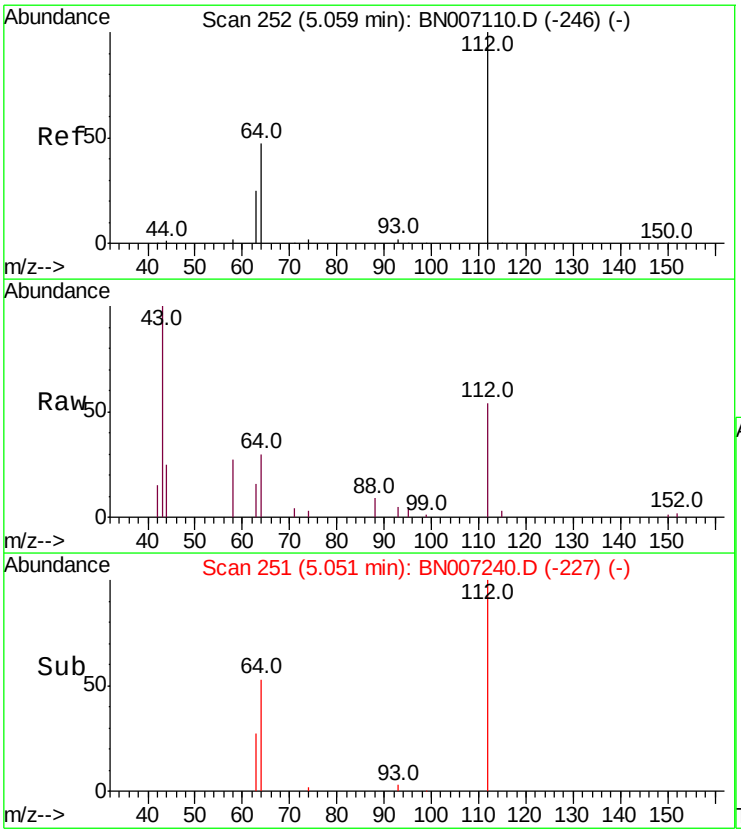
Tgt Ion:152 Resp: 7139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.6 | 121.7 | 182.5 |
| 115 | 62.6 | 46.2 | 69.4 |




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

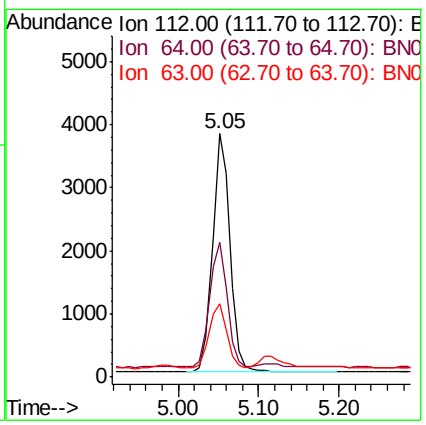
**Manual Integrations APPROVED**

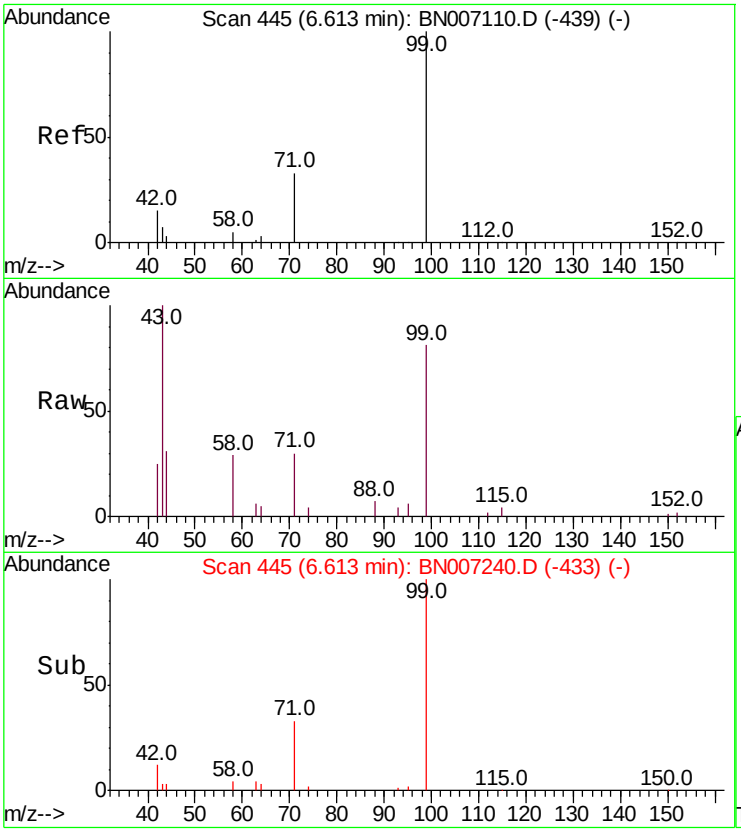



#3
2-Fluorophenol
Concen: 0.329 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:112 Resp: 5645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 51.6 | 42.6 | 63.8 |
| 63 | 26.1 | 22.2 | 33.2 |

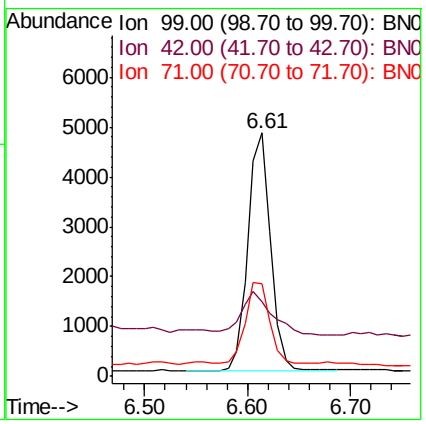





#4
Phenol-d6
Concen: 0.349 ng
RT: 6.61 min Scan# 445
Delta R.T. -0.00 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

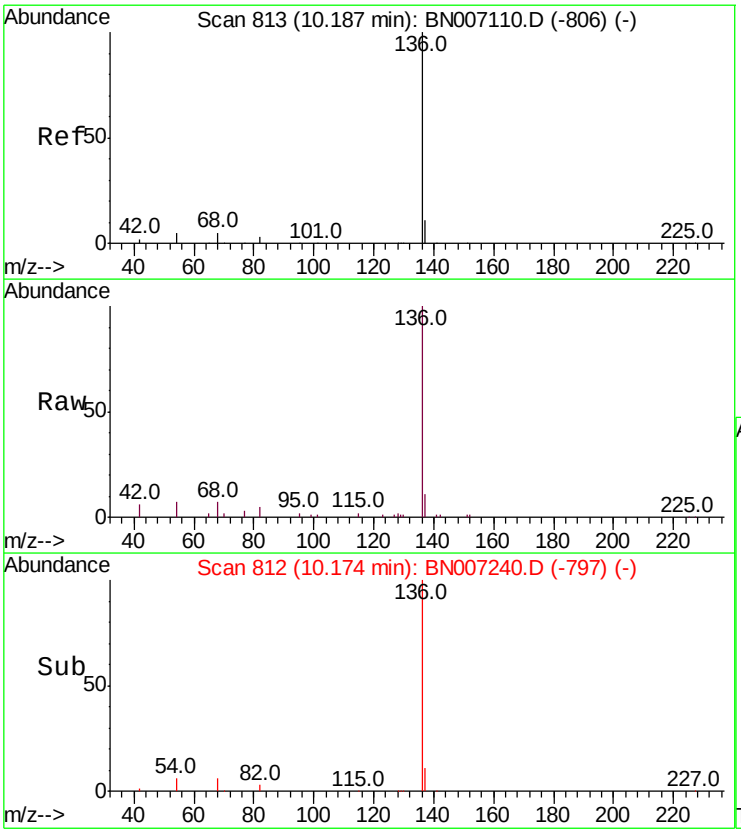
Tgt Ion: 99 Resp: 7423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 25.2 | 15.8 | 23.6# |
| 71 | 37.5 | 27.0 | 40.4 |




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

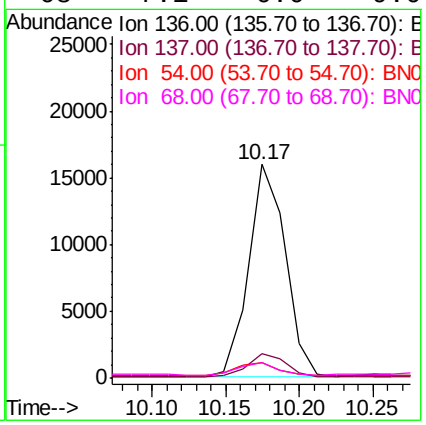
**Manual Integrations APPROVED**

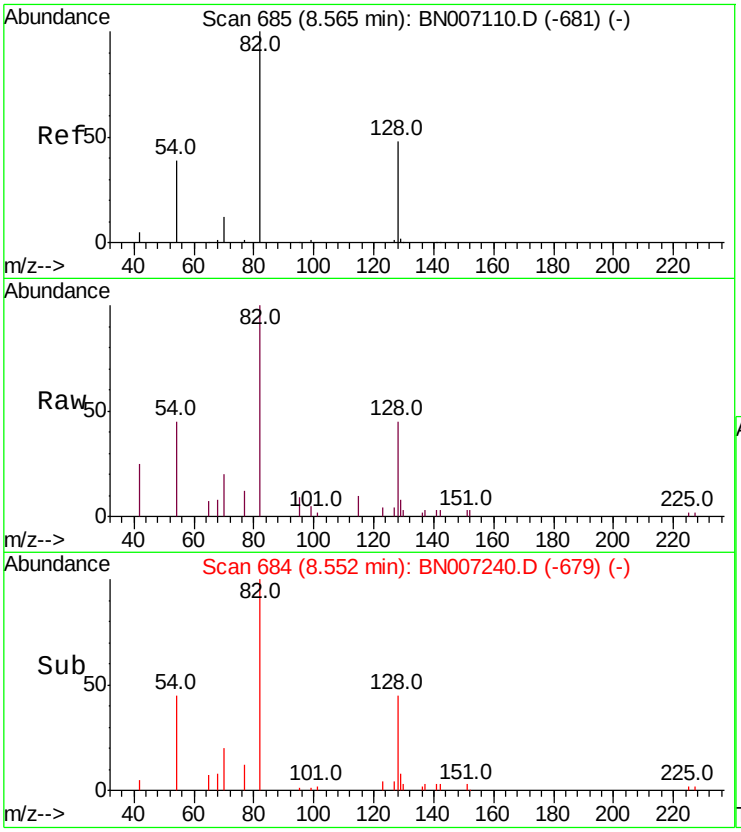



#6
Naphthalene-d8
Concen: 0.400 ng
RT: 10.17 min Scan# 812
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:136 Resp: 27540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 9.4 | 14.0 |
| 54 | 7.3 | 6.6 | 9.8 |
| 68 | 7.1 | 6.0 | 9.0 |

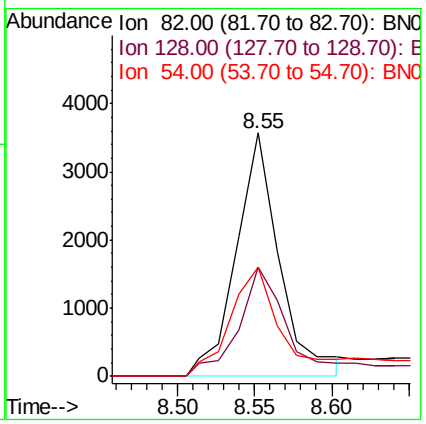





#7
Nitrobenzene-d5
Concen: 0.303 ng
RT: 8.55 min Scan# 684
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

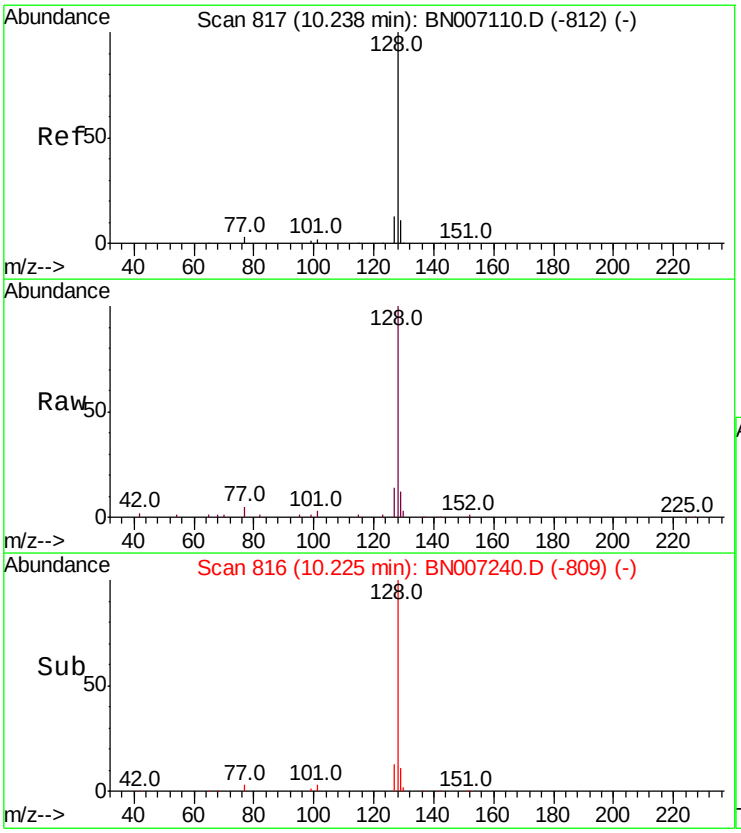
Tgt Ion: 82 Resp: 6731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.0 | 34.6 | 51.8 |
| 54 | 45.1 | 36.2 | 54.4 |




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

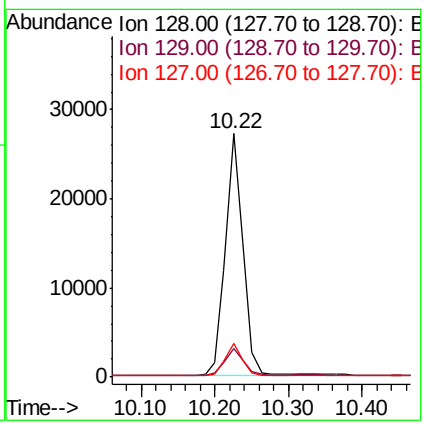
**Manual Integrations APPROVED**

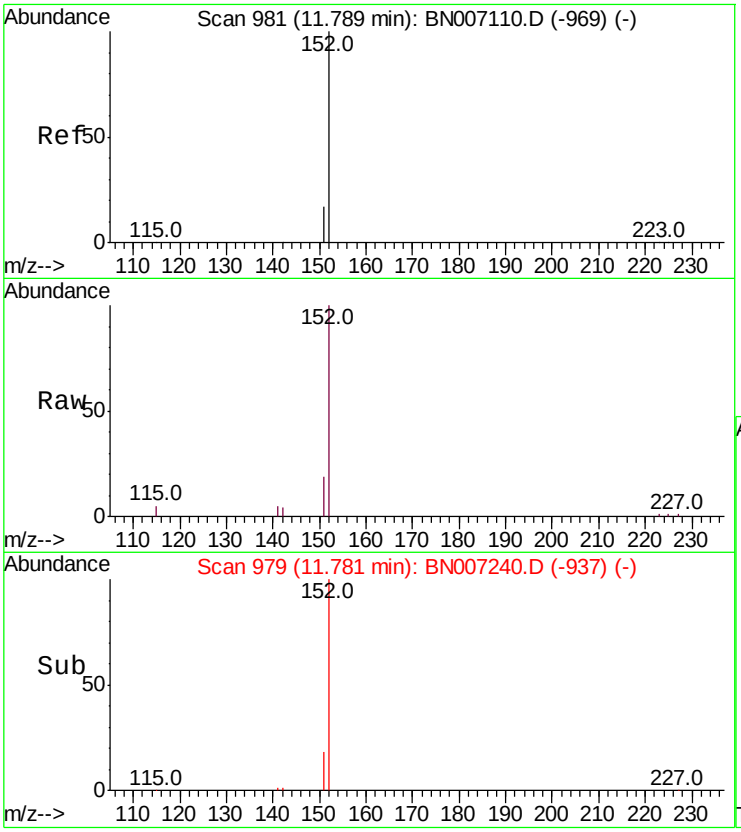



#8
Naphthalene
Concen: 0.578 ng
RT: 10.22 min Scan# 816
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:128 Resp: 44618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 9.4 | 14.2 |
| 127 | 13.6 | 11.0 | 16.6 |

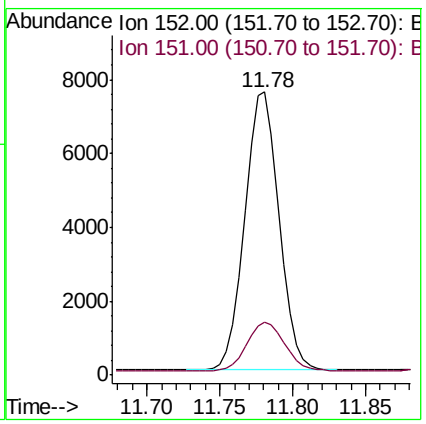





#10
2-Methylnaphthalene-d10
Concen: 0.240 ng
RT: 11.78 min Scan# 979
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

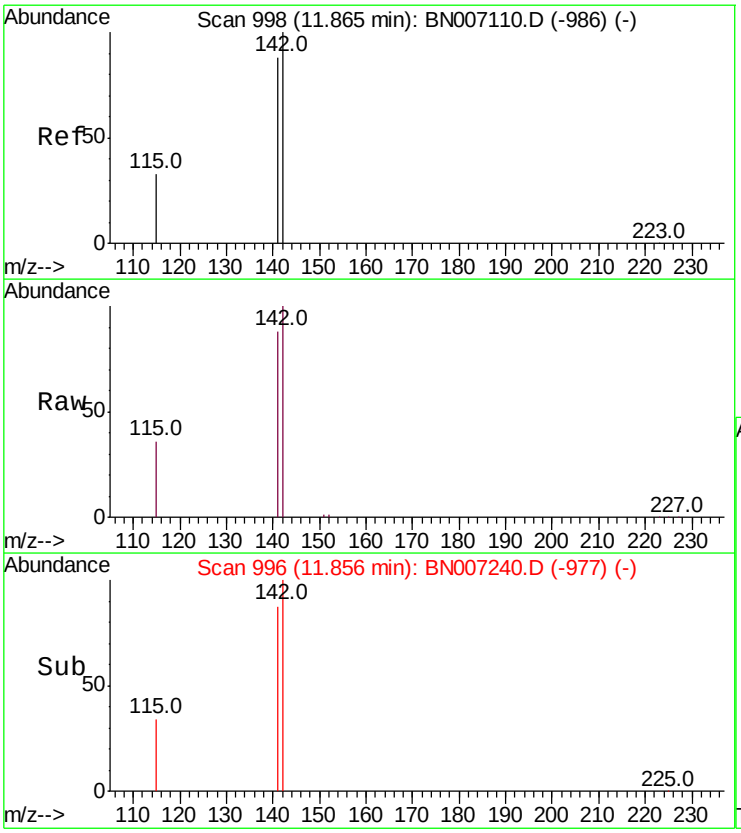
Tgt Ion:152 Resp: 12348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.2 | 15.5 | 23.3 |




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

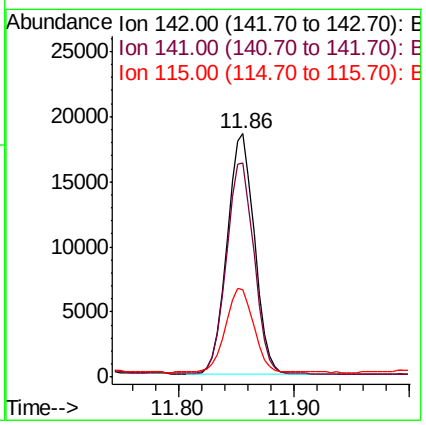
**Manual Integrations APPROVED**

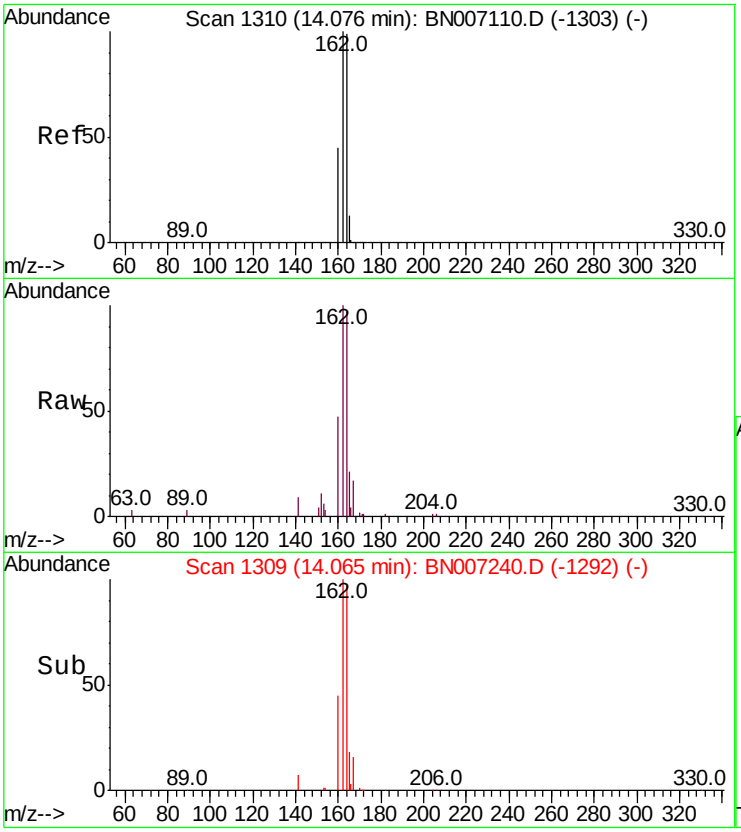



#11
2-Methylnaphthalene
Concen: 0.544 ng
RT: 11.86 min Scan# 996
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:142 Resp: 29760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.9 | 69.0 | 103.6 |
| 115 | 35.9 | 27.1 | 40.7 |

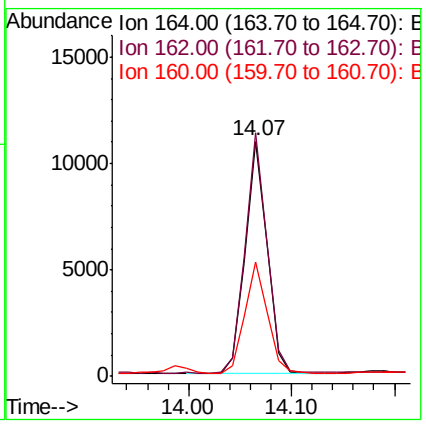





#12
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.07 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

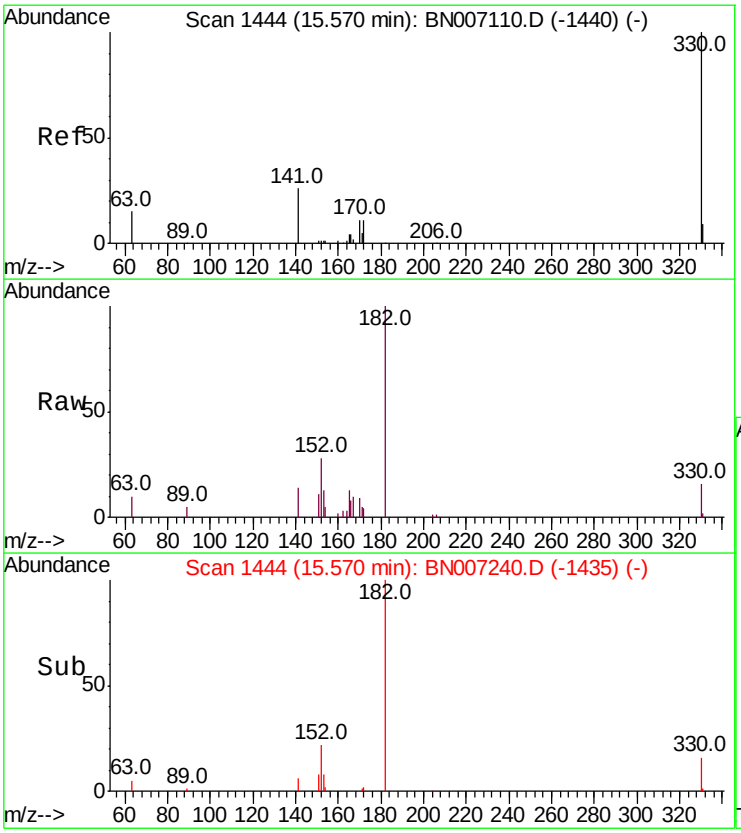
Tgt Ion:164 Resp: 16224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 103.5 | 82.2 | 123.4 |
| 160 | 48.6 | 38.3 | 57.5 |




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

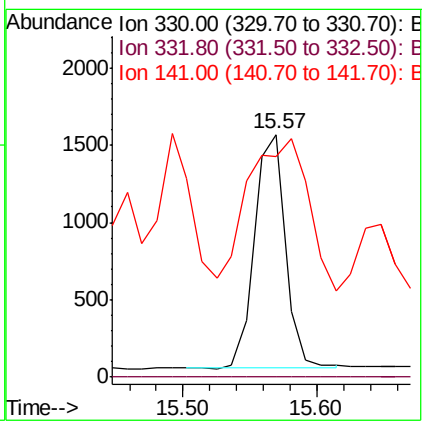
**Manual Integrations APPROVED**

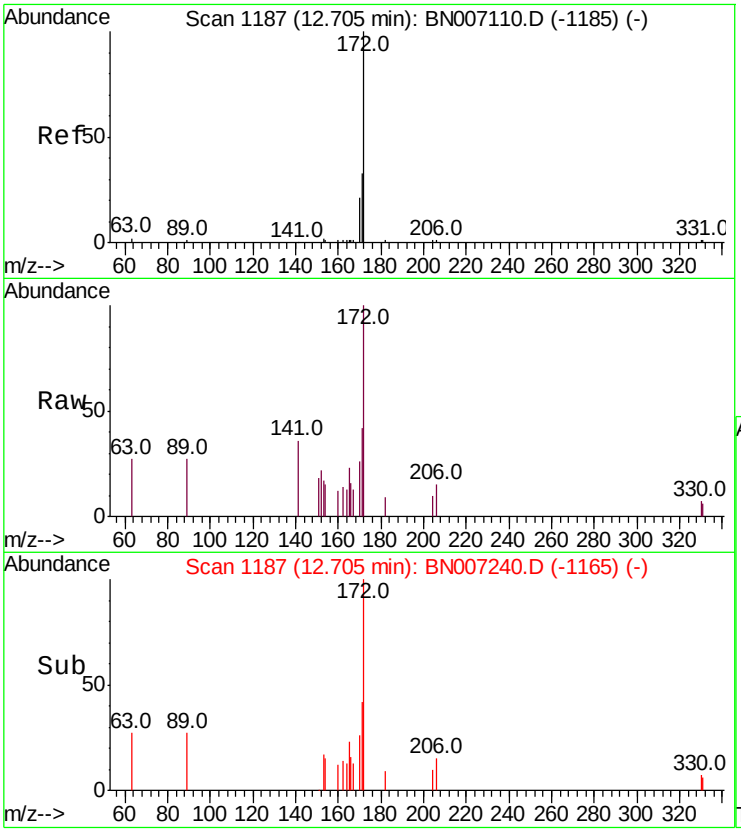



#13
2,4,6-Tribromophenol
Concen: 0.280 ng
RT: 15.57 min Scan# 1444
Delta R.T. -0.00 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:330 Resp: 2445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 0.0 | 0.0 | 0.0 |
| 141 | 126.1 | 33.6 | 50.4# |

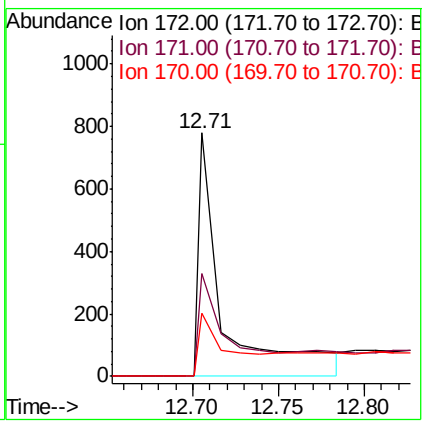





#14
2-Fluorobiphenyl
Concen: 0.035 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

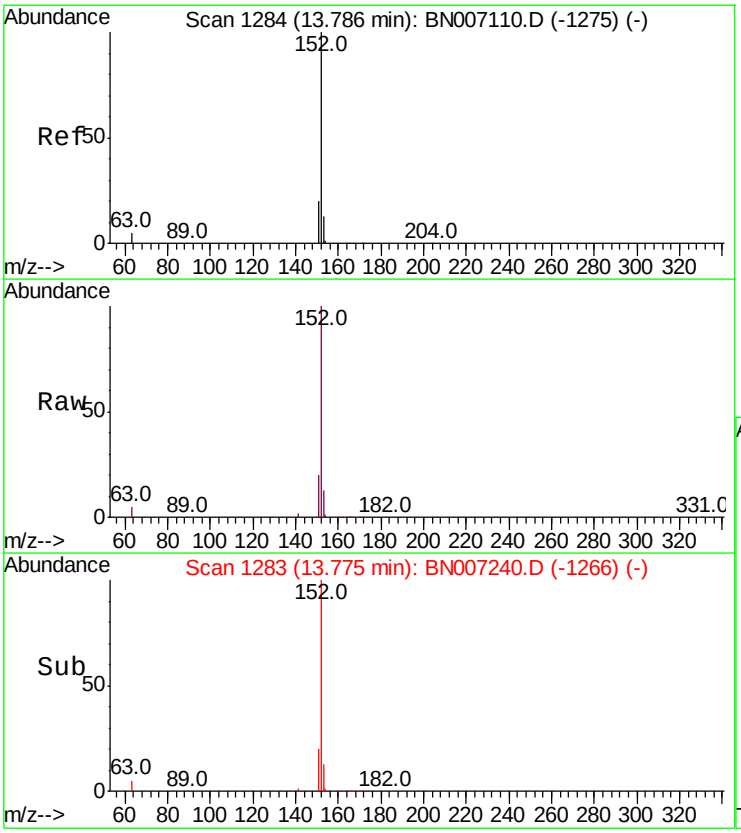
Tgt Ion:172 Resp: 824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 42.4 | 26.3 | 39.5# |
| 170 | 25.8 | 17.0 | 25.4# |




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

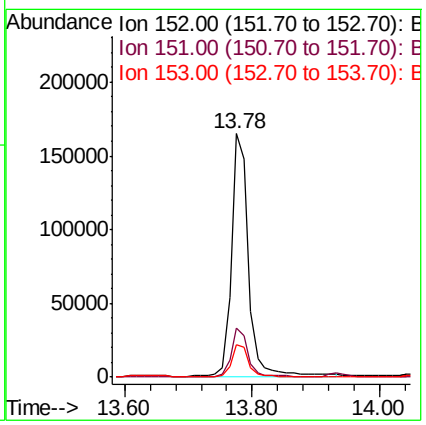
**Manual Integrations APPROVED**

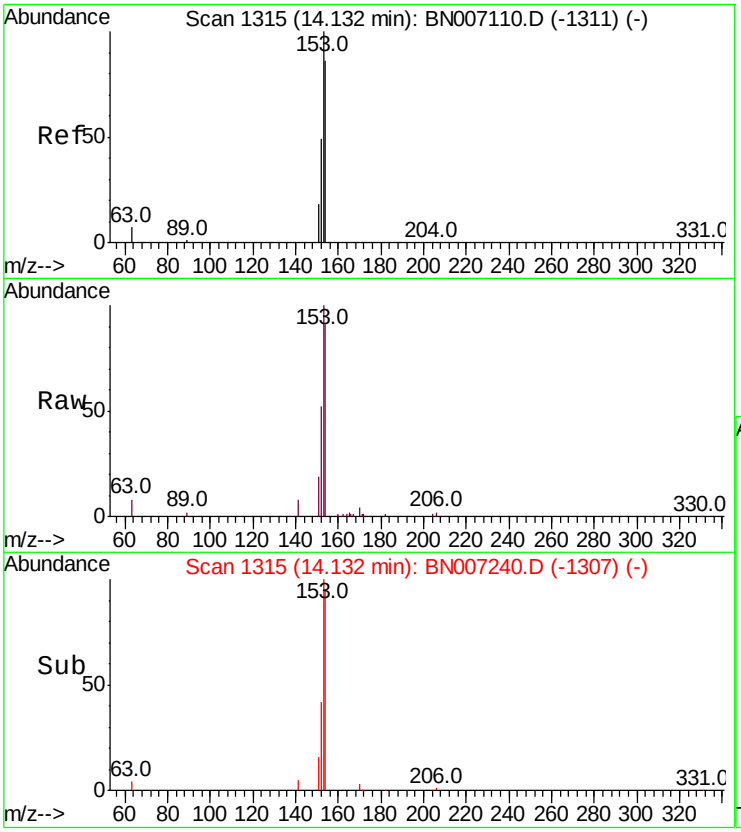



#15
Acenaphthylene
Concen: 3.572 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:152 Resp: 302903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 15.8 | 23.6 |
| 153 | 13.3 | 10.4 | 15.6 |

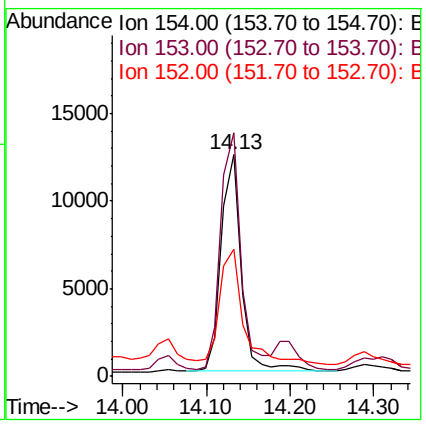





#16
Acenaphthene
Concen: 0.376 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

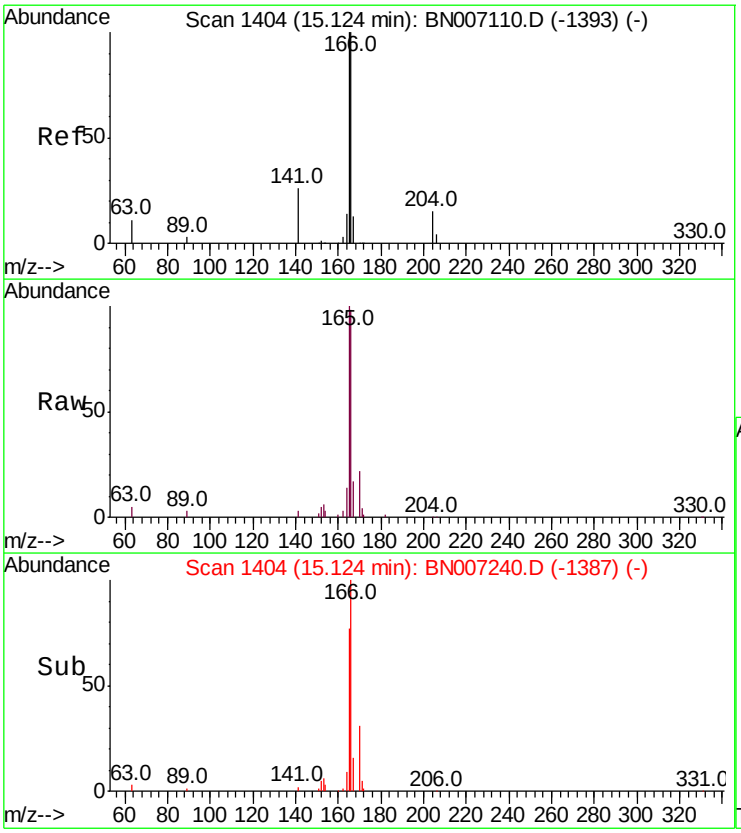
Tgt Ion:154 Resp: 20426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.7 | 89.5 | 134.3 |
| 152 | 63.1 | 44.8 | 67.2 |




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

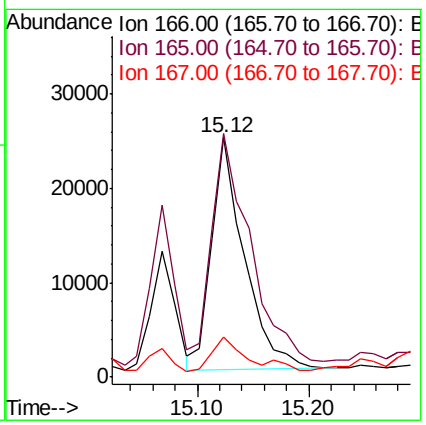
**Manual Integrations APPROVED**

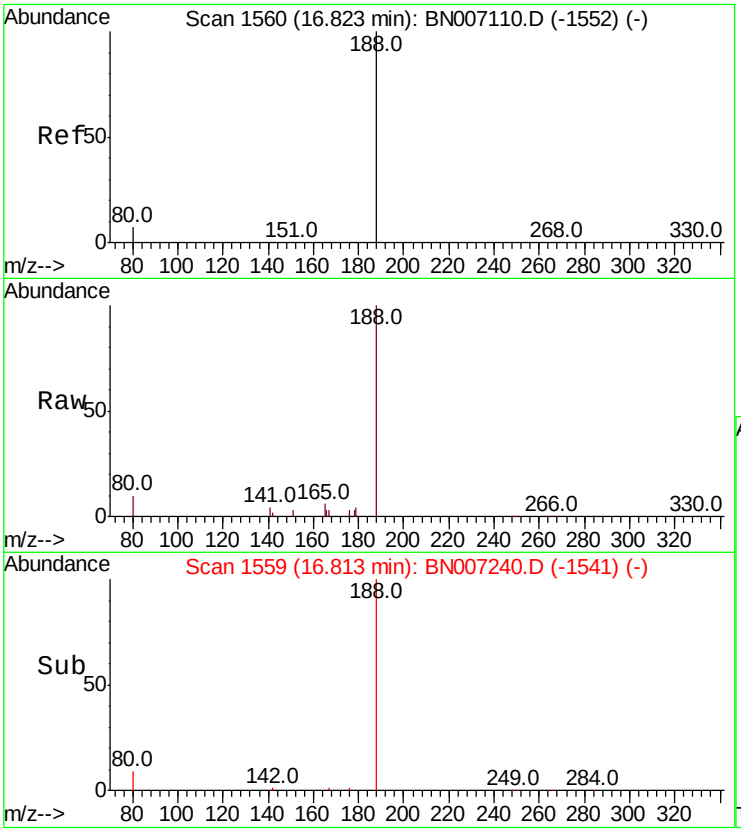



#17
Fluorene
Concen: 0.619 ng
RT: 15.12 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:166 Resp: 50274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 115.4 | 77.9 | 116.9 |
| 167 | 16.6 | 10.9 | 16.3# |

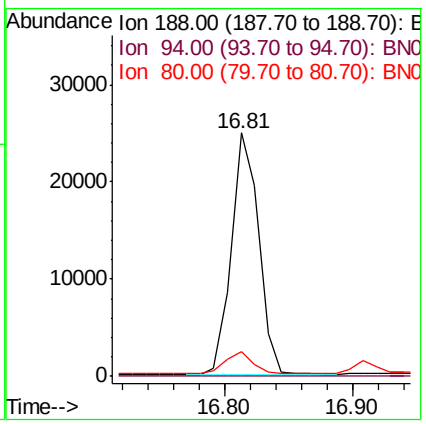





#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.81 min Scan# 1559
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

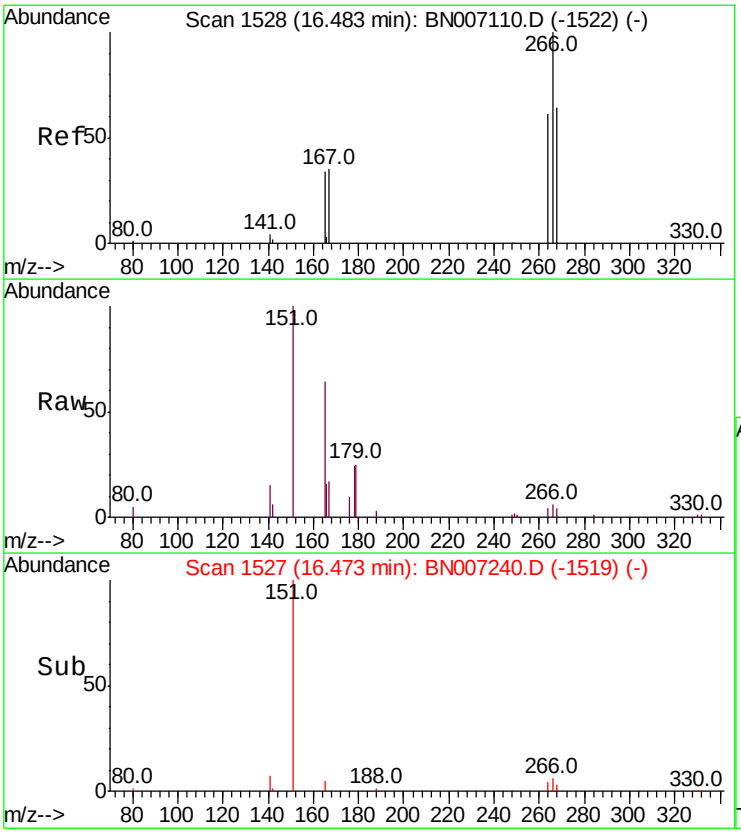
Tgt Ion:188 Resp: 37036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 0.0 | 0.0 | 0.0 |
| 80 | 10.2 | 7.8 | 11.6 |




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

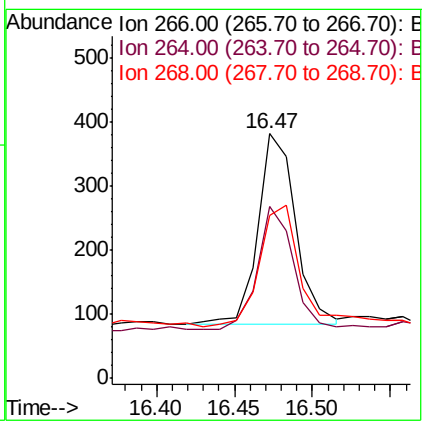
**Manual Integrations APPROVED**

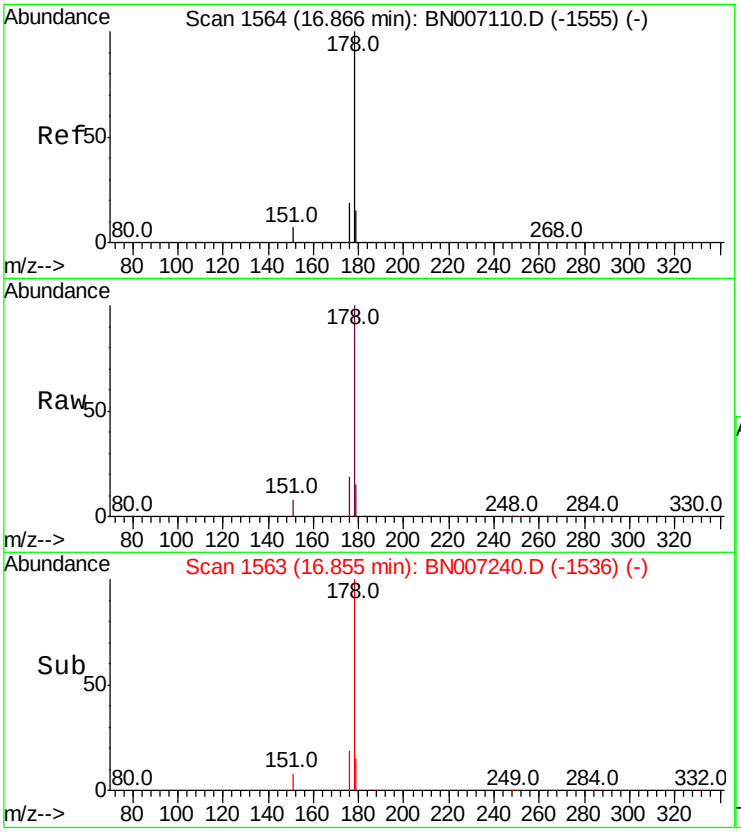



#21
Pentachlorophenol
Concen: 0.060 ng
RT: 16.47 min Scan# 1527
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:266 Resp: 494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 70.1 | 52.3 | 78.5 |
| 268 | 66.7 | 51.5 | 77.3 |

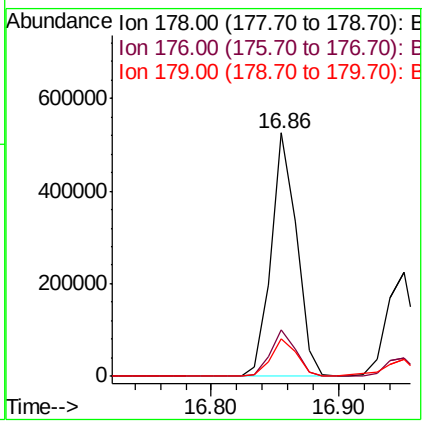





#22
Phenanthrene
Concen: 6.549 ng
RT: 16.86 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

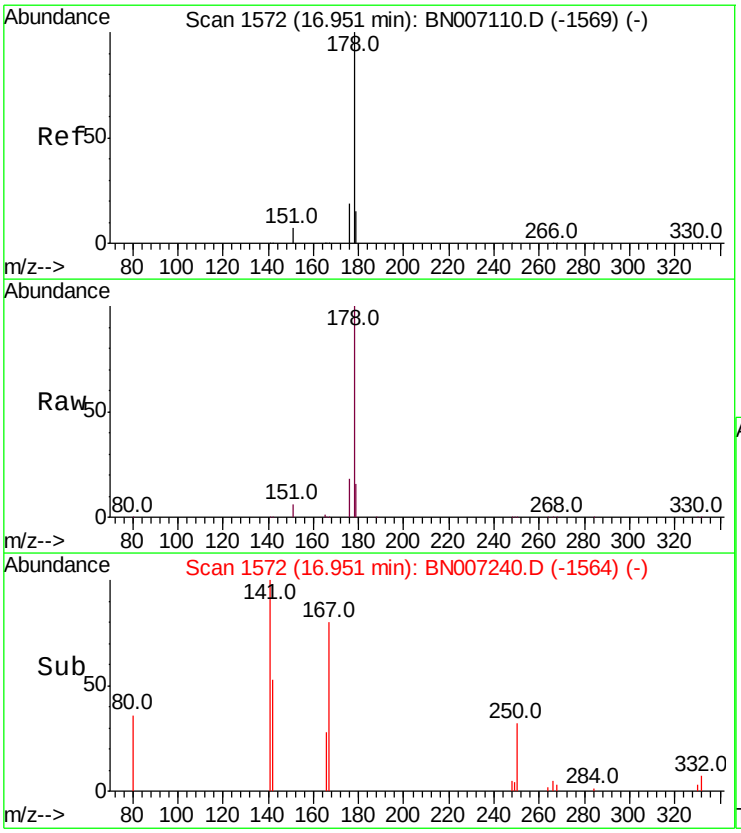
Tgt Ion:178 Resp: 726875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 15.2 | 22.8 |
| 179 | 15.7 | 12.3 | 18.5 |




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

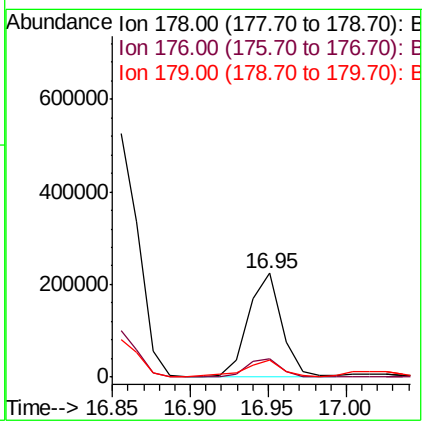
**Manual Integrations APPROVED**

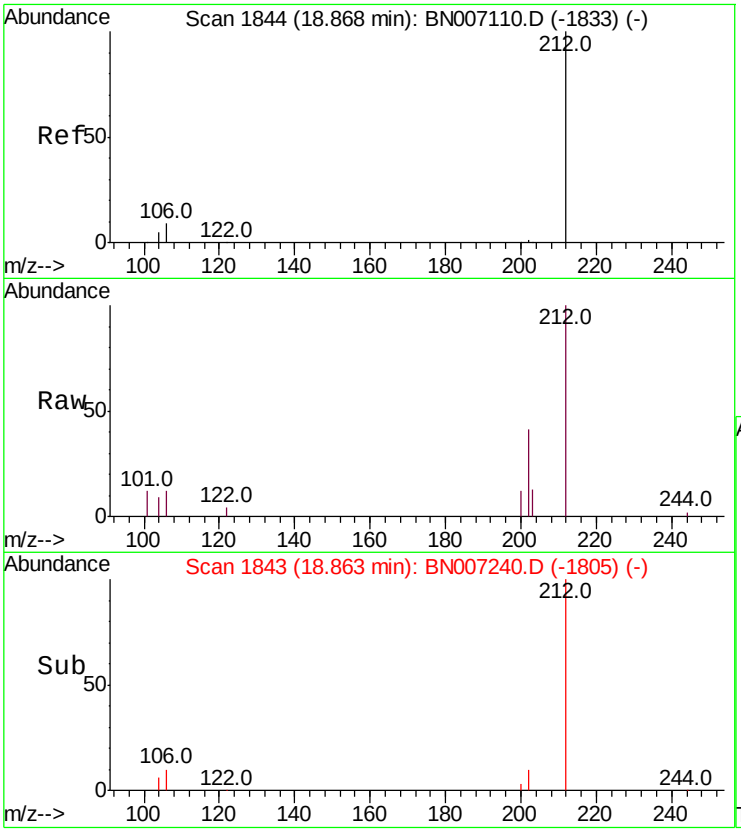



#23
Anthracene
Concen: 3.253 ng
RT: 16.95 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:178 Resp: 329884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 14.6 | 21.8 |
| 179 | 16.5 | 12.5 | 18.7 |

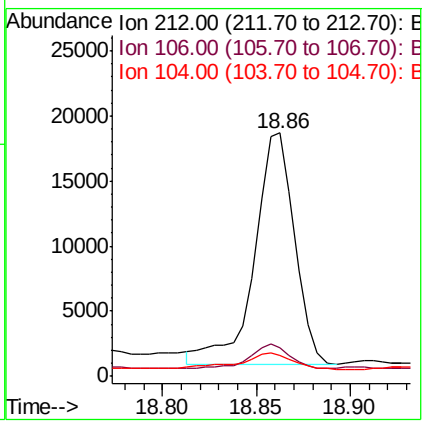





#24
Fluoranthene-d10
Concen: 0.201 ng
RT: 18.86 min Scan# 1843
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

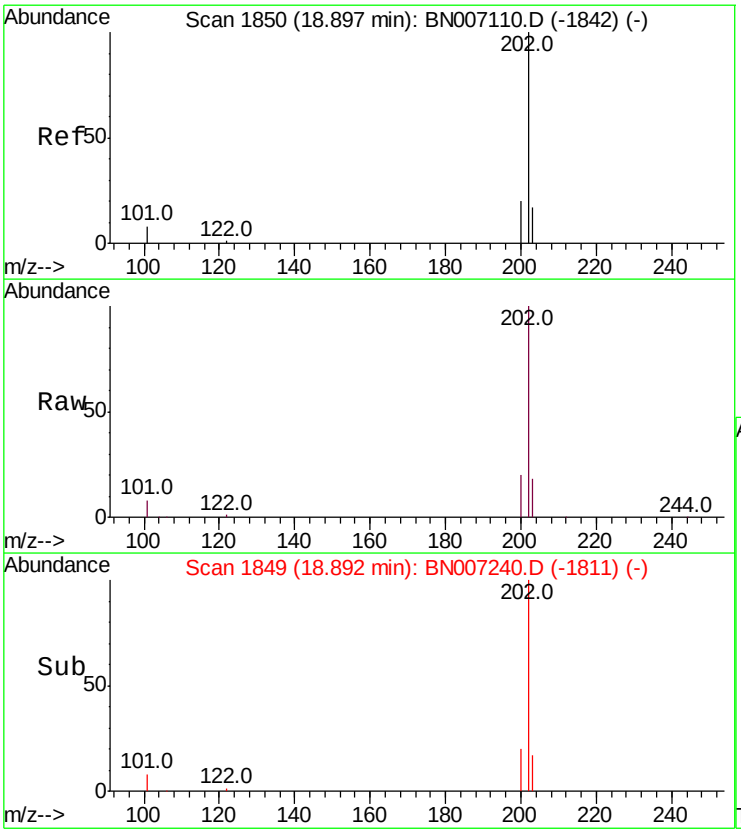
Tgt Ion:212 Resp: 26400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 212 | 100 | | |
| 106 | 10.8 | 8.2 | 12.2 |
| 104 | 9.1 | 4.5 | 6.7# |




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

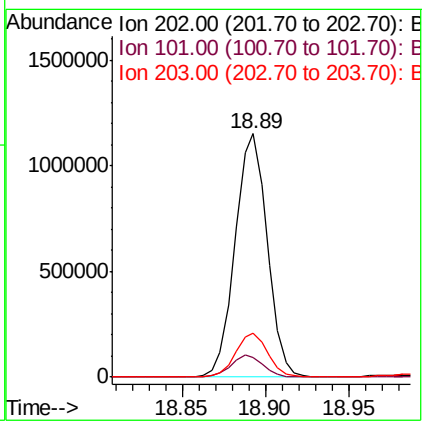
**Manual Integrations APPROVED**

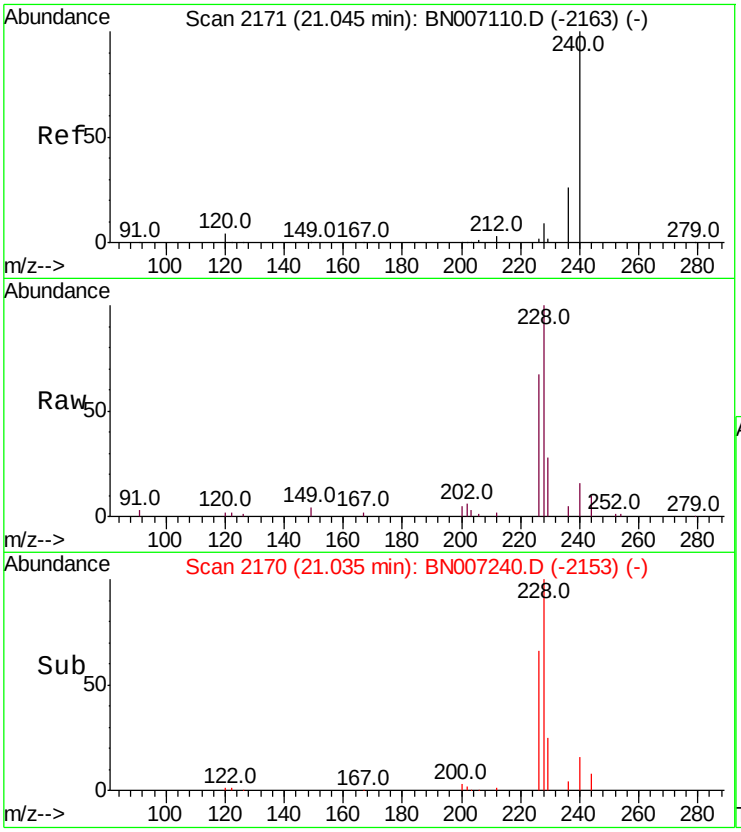



#25
Fluoranthene
Concen: 10.850 ng
RT: 18.89 min Scan# 1849
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:202 Resp: 1540503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 8.9 | 7.0 | 10.4 |
| 203 | 17.7 | 13.8 | 20.8 |

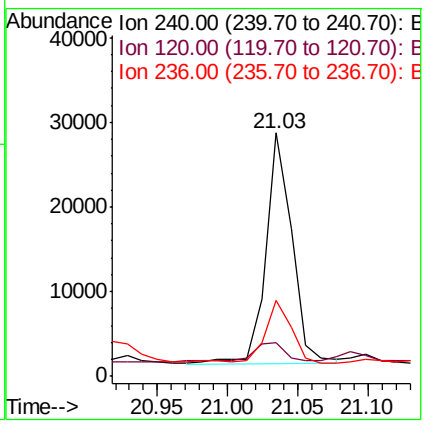





#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.03 min Scan# 2170
Delta R.T. -0.02 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

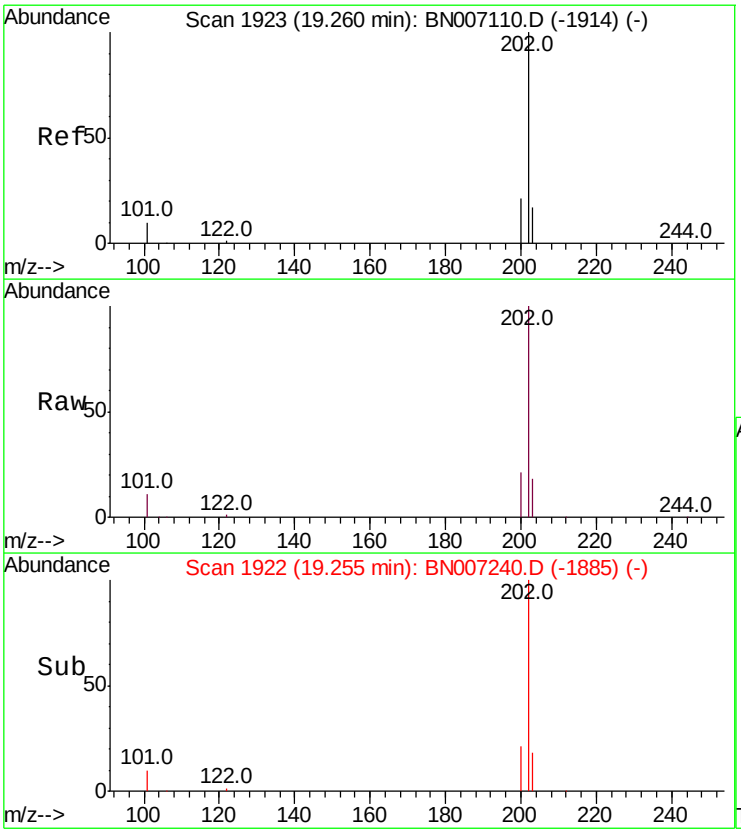
Tgt Ion:240 Resp: 35899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.8 | 4.0 | 6.0# |
| 236 | 31.3 | 21.3 | 31.9 |




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

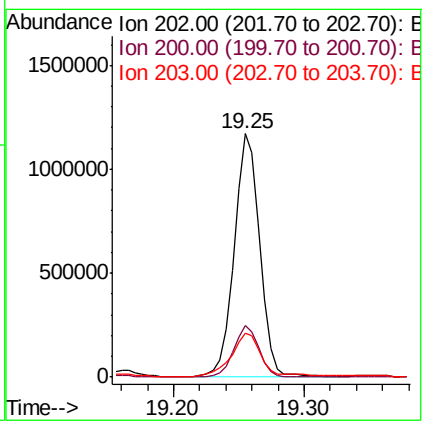
**Manual Integrations APPROVED**

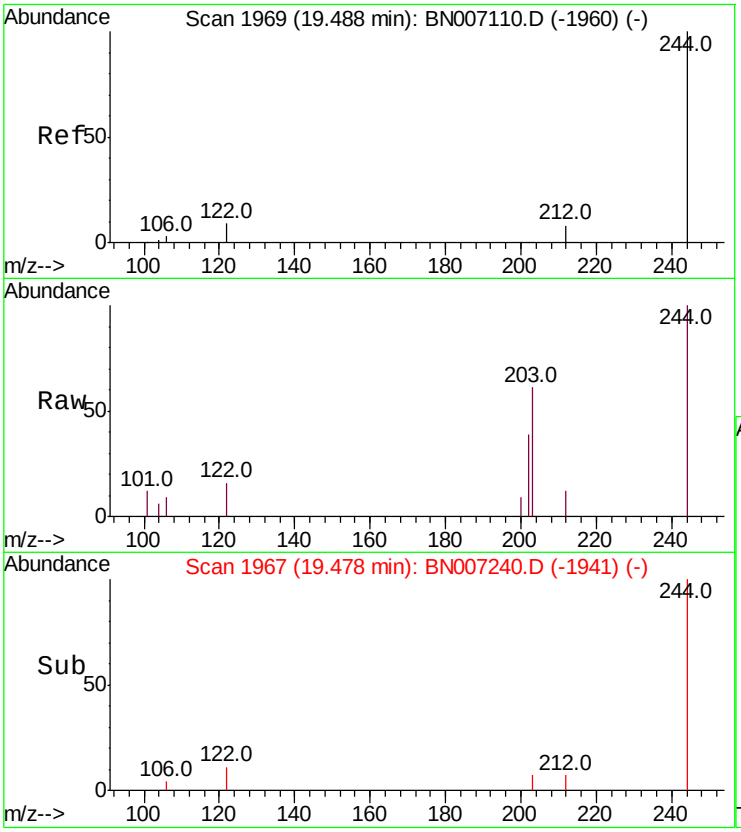



#27
Pyrene
Concen: 12.616 ng
RT: 19.25 min Scan# 1922
Delta R.T. -0.02 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:202 Resp: 1588322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.9 | 16.6 | 24.8 |
| 203 | 20.3 | 14.0 | 21.0 |

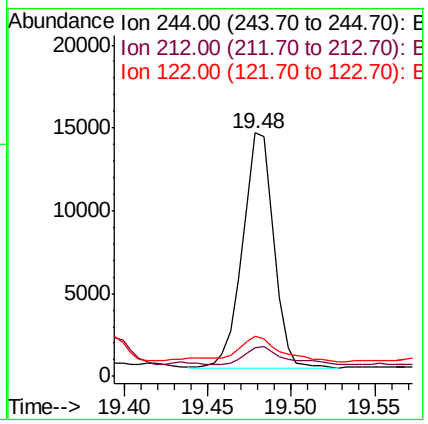





#28
Terphenyl-d14
Concen: 0.190 ng
RT: 19.48 min Scan# 1967
Delta R.T. -0.02 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

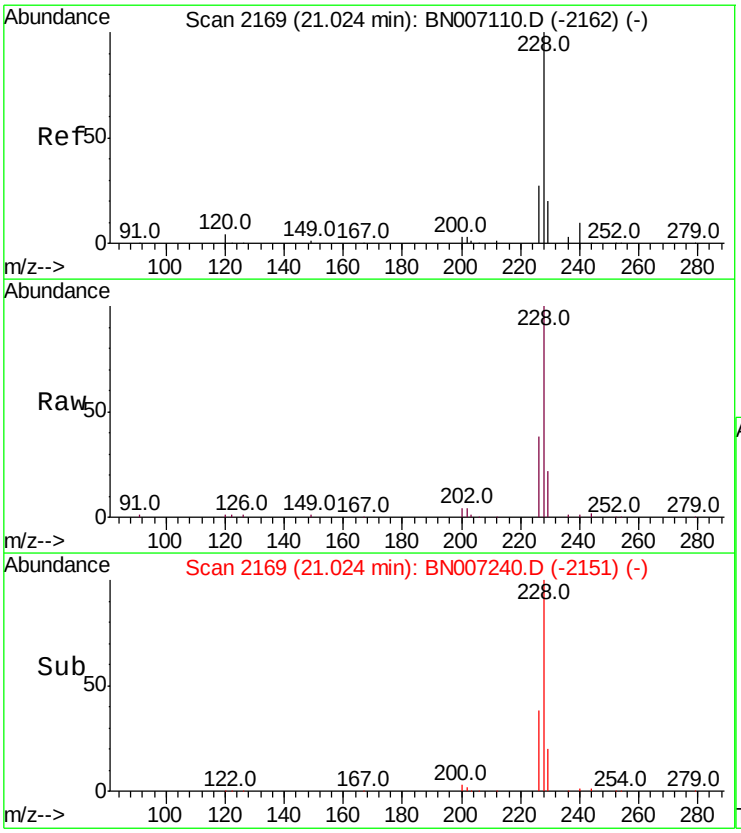
Tgt Ion:244 Resp: 18560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 12.0 | 6.2 | 9.2# |
| 122 | 16.3 | 7.4 | 11.2# |




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

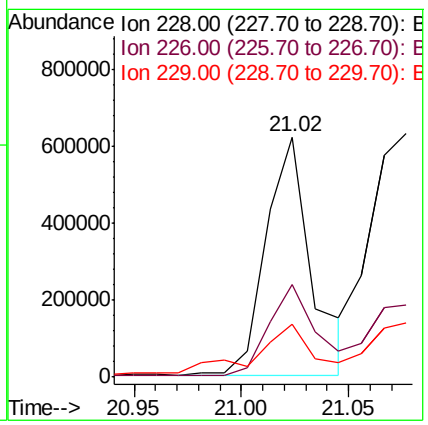
**Manual Integrations APPROVED**

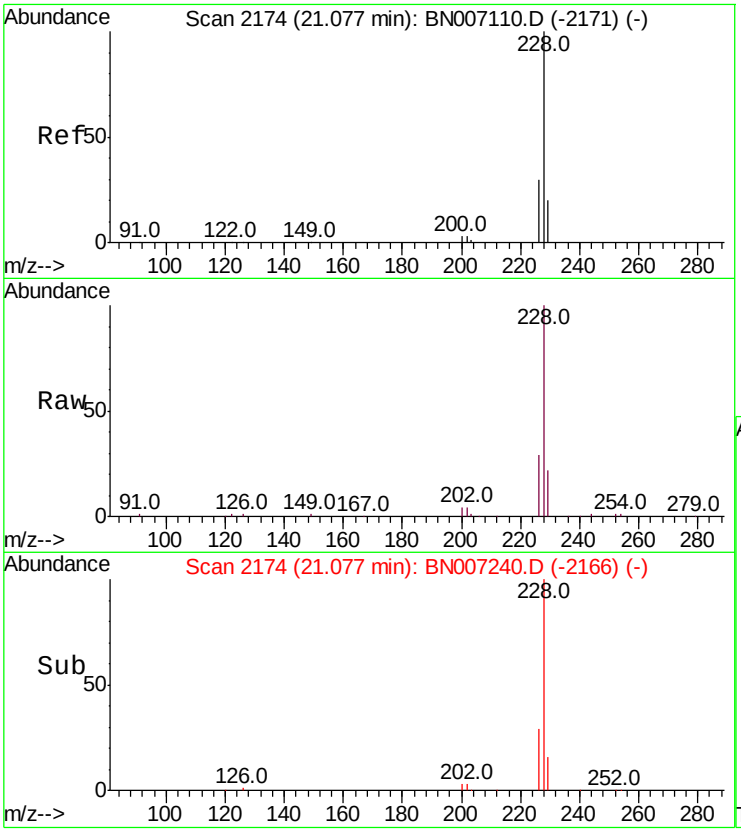



#29
Benzo(a)anthracene
Concen: 7.035 ng m
RT: 21.02 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:228 Resp: 923616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 38.4 | 21.8 | 32.6# |
| 229 | 22.0 | 15.6 | 23.4 |

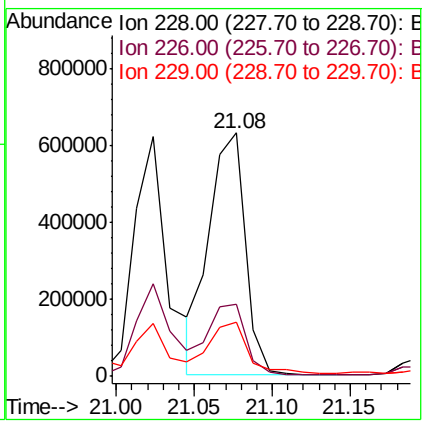





#30
Chrysene
Concen: 7.961 ng
RT: 21.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

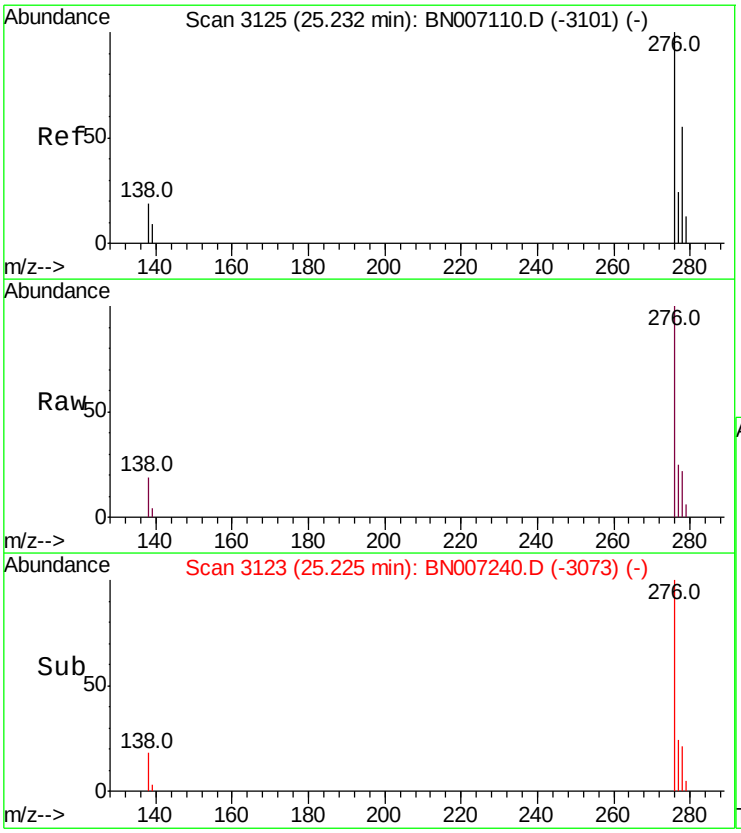
Tgt Ion:228 Resp: 1015486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.4 | 23.8 | 35.6 |
| 229 | 22.4 | 15.7 | 23.5 |




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

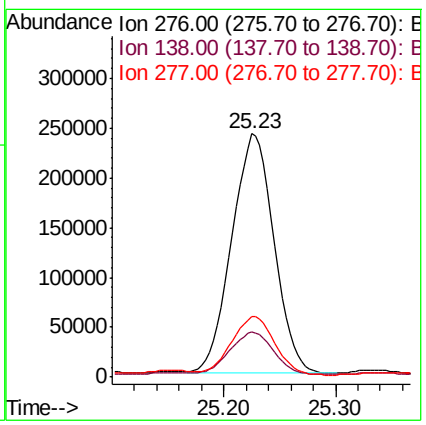
**Manual Integrations APPROVED**

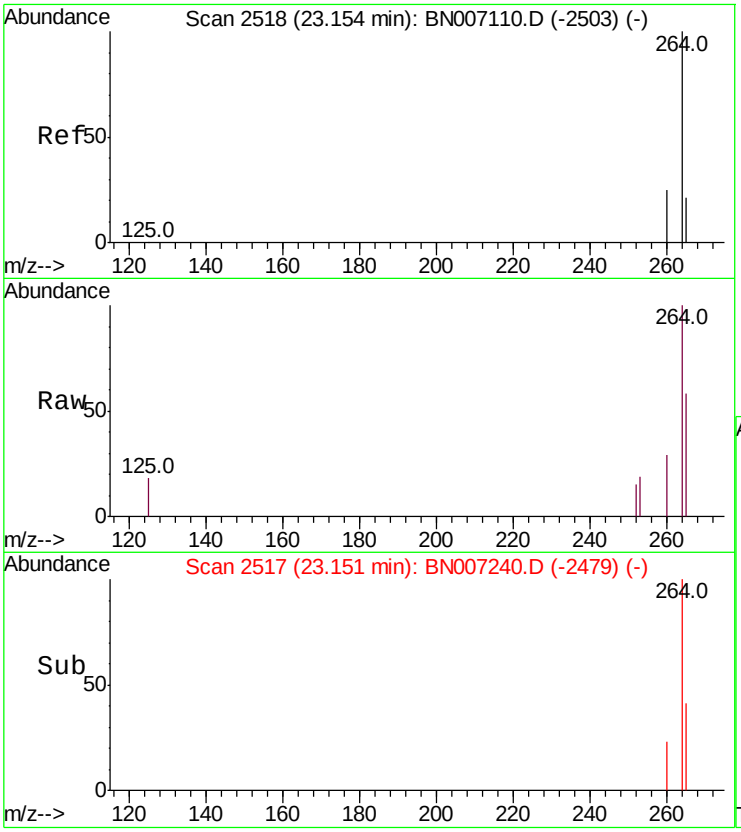



#31
Indeno(1,2,3-cd)pyrene
Concen: 4.489 ng
RT: 25.23 min Scan# 3123
Delta R.T. -0.03 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:276 Resp: 631145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 18.5 | 16.0 | 24.0 |
| 277 | 24.9 | 19.9 | 29.9 |





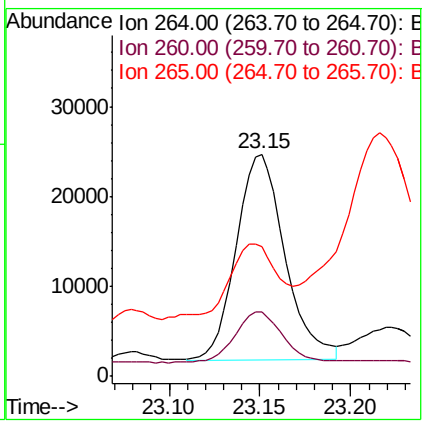

#32
Perylene-d12
Concen: 0.400 ng
RT: 23.15 min Scan# 2517
Delta R.T. -0.02 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

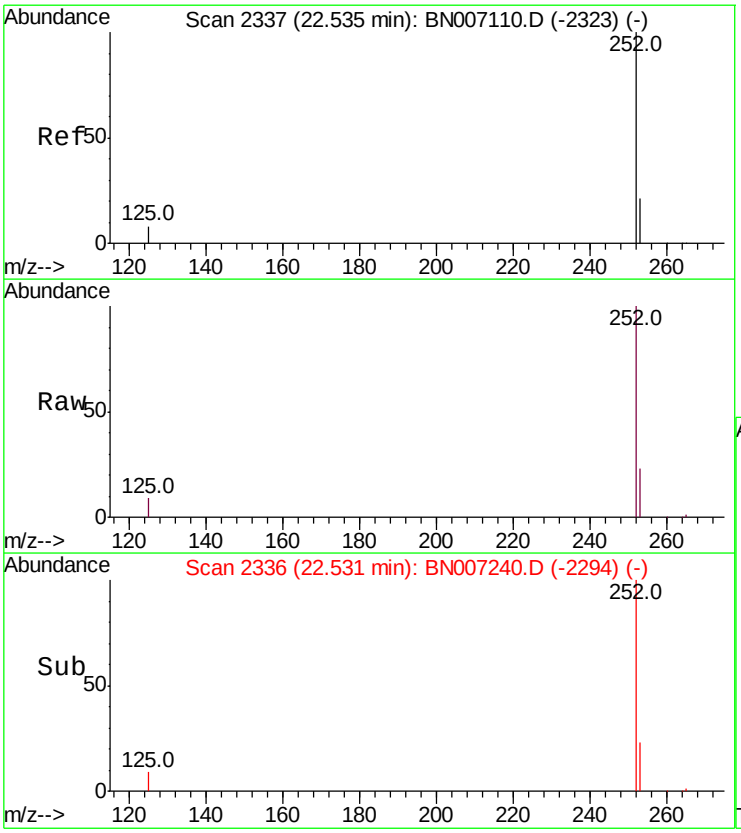
Tgt Ion:264 Resp: 42457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 28.9 | 19.8 | 29.8 |
| 265 | 58.4 | 26.2 | 39.4# |

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

**Manual Integrations APPROVED**

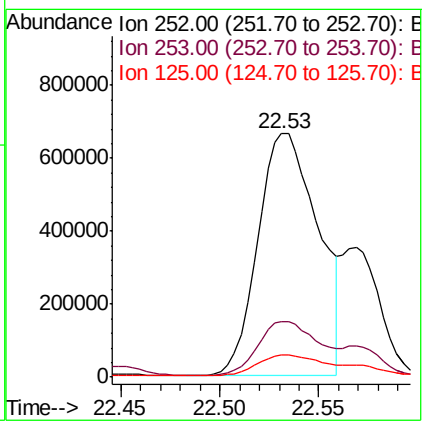


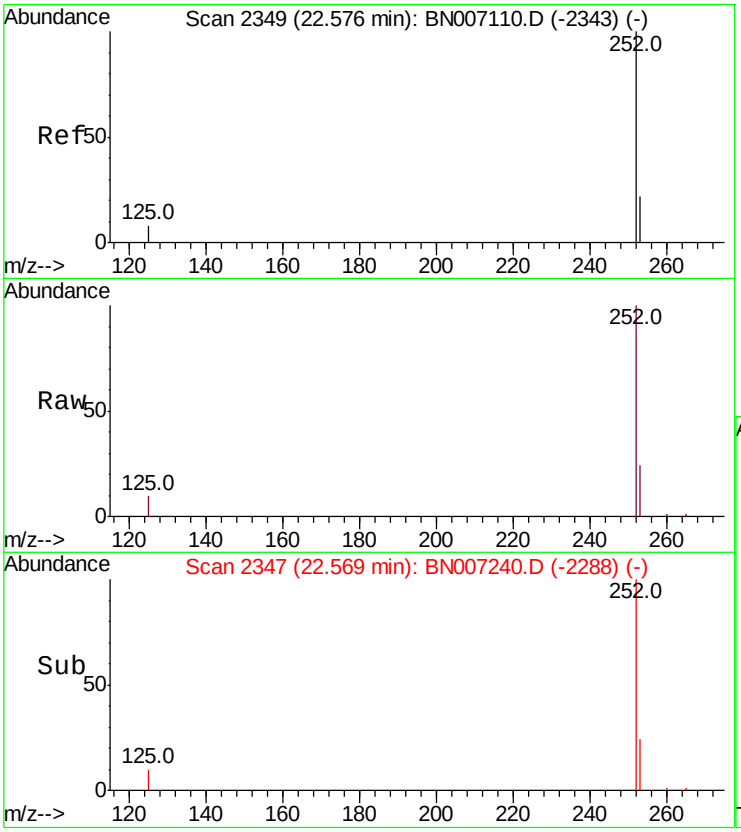




#33
Benzo(b)fluoranthene
Concen: 9.654 ng
RT: 22.53 min Scan# 2336
Delta R.T. -0.02 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:252 Resp: 1405527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 18.2 | 27.2 |
| 125 | 9.1 | 7.4 | 11.0 |





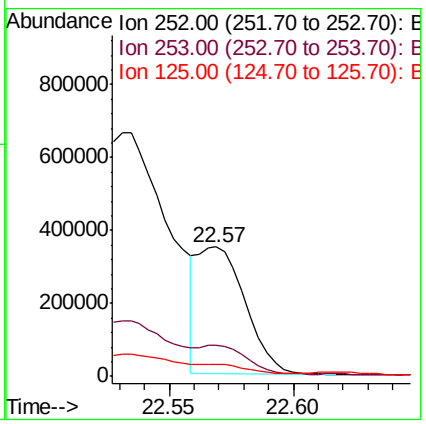

#34
Benzo(k)fluoranthene
Concen: 3.237 ng m
RT: 22.57 min Scan# 2347
Delta R.T. -0.02 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

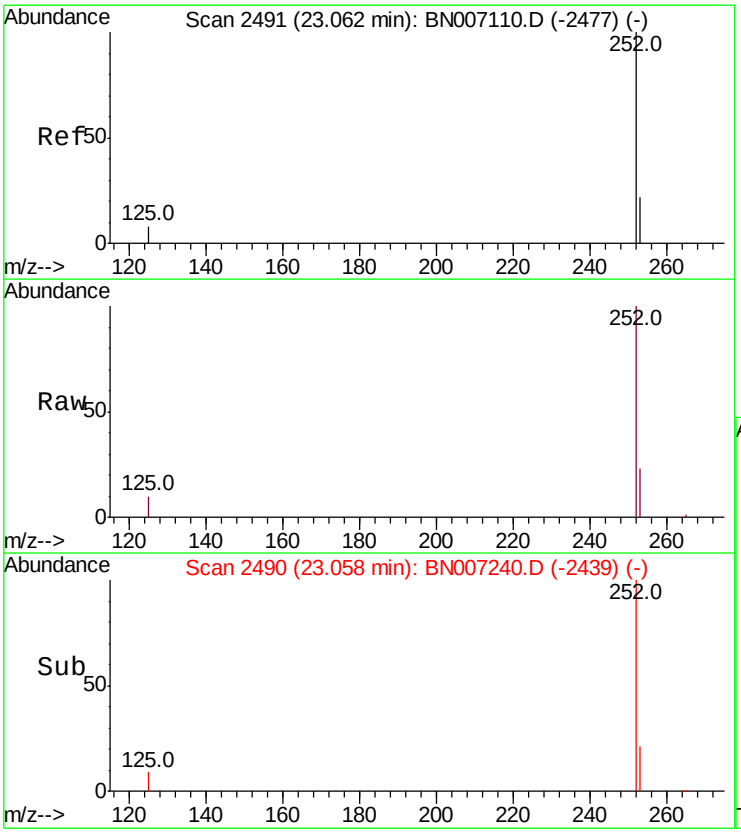
Tgt Ion:252 Resp: 465439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.9 | 18.1 | 27.1 |
| 125 | 9.6 | 7.4 | 11.0 |

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

**Manual Integrations APPROVED**

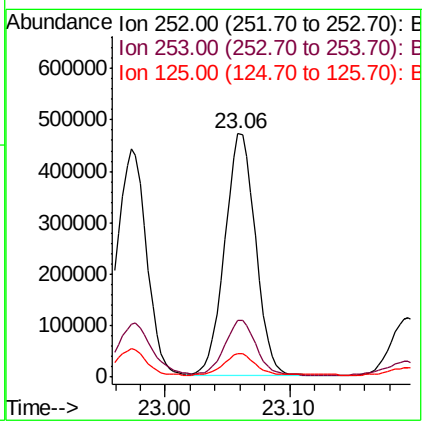


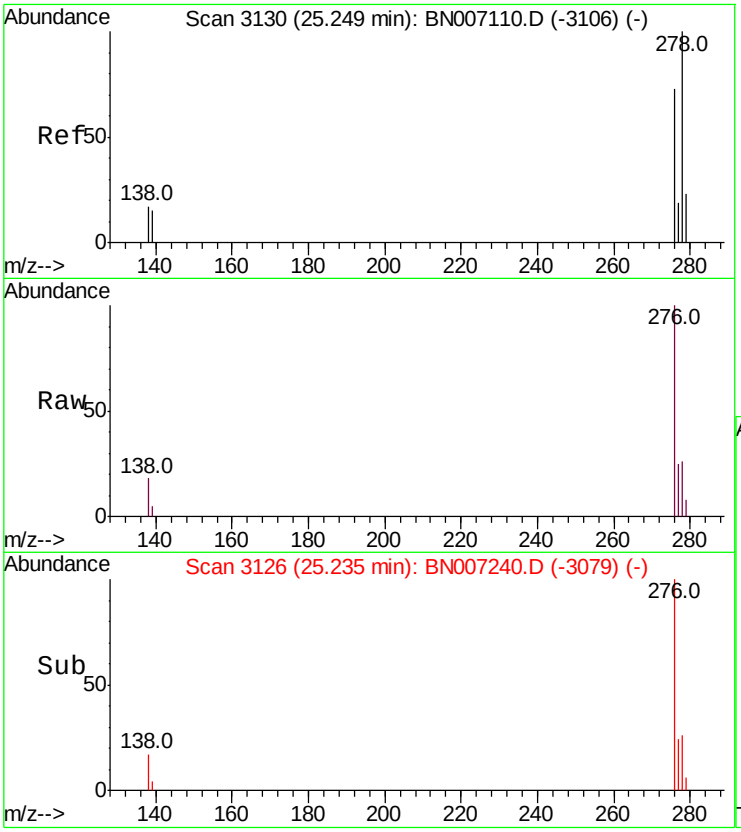




#35
Benzo(a)pyrene
Concen: 6.097 ng
RT: 23.06 min Scan# 2490
Delta R.T. -0.02 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:252 Resp: 804696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.3 | 18.5 | 27.7 |
| 125 | 9.7 | 8.2 | 12.4 |

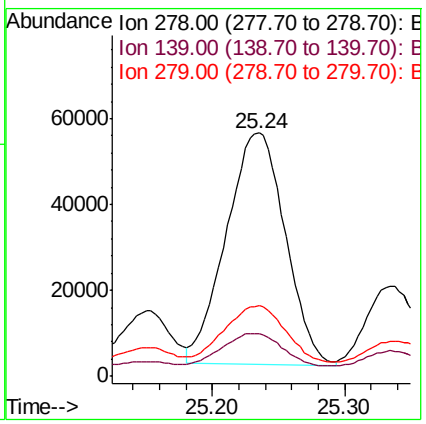





#36
Dibenzo(a,h)anthracene
Concen: 1.276 ng
RT: 25.24 min Scan# 3126
Delta R.T. -0.04 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

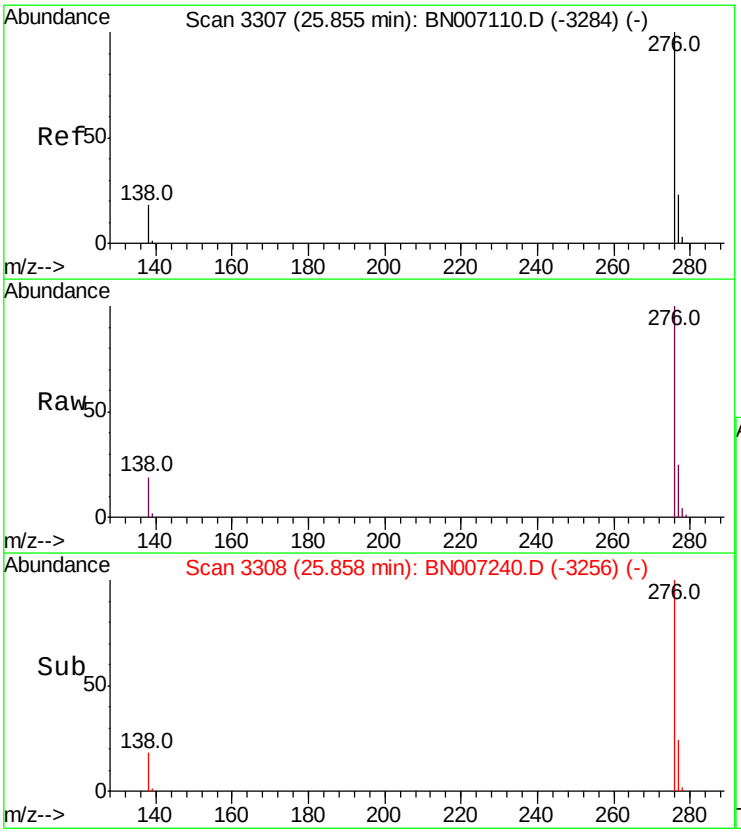
Tgt Ion:278 Resp: 168007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.8 | 11.3 | 16.9# |
| 279 | 28.9 | 19.3 | 28.9 |




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

**Manual Integrations APPROVED**




#37
Benzo(g,h,i)perylene
Concen: 4.618 ng
RT: 25.86 min Scan# 3308
Delta R.T. -0.02 min
Lab File: BN007240.D
Acq: 17 Aug 2019 02:40

Tgt Ion:276 Resp: 625567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.5 | 19.8 | 29.8 |
| 138 | 18.6 | 14.6 | 22.0 |