Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051319\
Data File : BF114250.D
Acq On : 14 May 2019 1:25
Operator : JU/SJ
Sample : K2765-21DL 4X
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

**Manual Integrations APPROVED**
Sohil
5/14/2019 8:03:38 PM

Quant Time: May 14 08:41:44 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 10 15:56:46 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.86 | 152 | 255947 | 20.00 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.13 | 136 | 1015312 | 20.00 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.89 | 164 | 467353 | 20.00 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.38 | 188 | 847370 | 20.00 | ng | 0.01 |
| 76) Chrysene-d12 | 14.02 | 240 | 573773 | 20.00 | ng | 0.00 |
| 87) Perylene-d12 | 15.50 | 264 | 589786 | 20.00 | ng | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.49 | 112 | 415653 | 26.13 | ng | 0.00 |
| 7) Phenol-d6 | 6.50 | 99 | 571365 | 30.37 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.41 | 82 | 335760 | 18.56 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.68 | 330 | 101427 | 20.99 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.21 | 172 | 472926 | 15.31 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.96 | 244 | 340505 | 12.23 | ng | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 31) Naphthalene | 8.16 | 128 | 200668 | 4.231 | ng | 97 |
| 37) 2-Methylnaphthalene | 8.85 | 142 | 83692 | 2.735 | ng | 94 |
| 49) Acenaphthylene | 9.75 | 152 | 325951 | 7.053 | ng | 97 |
| 50) Dimethylphthalate | 9.60 | 163 | 87244 | 2.543 | ng | 98 |
| 71) Phenanthrene | 11.40 | 178 | 1061507 | 25.749 | ng | 98 |
| 72) Anthracene | 11.45 | 178 | 188050 | 4.541 | ng | 97 |
| 75) Fluoranthene | 12.60 | 202 | 1373907 | 30.948 | ng | 99 |
| 78) Pyrene | 12.83 | 202 | 2389613 | 51.771 | ng | 99 |
| 81) Benzo(a)anthracene | 14.01 | 228 | 924670m | 24.916 | ng | |
| 83) Chrysene | 14.05 | 228 | 1042476 | 28.656 | ng | 99 |
| 86) Indeno(1,2,3-cd)pyrene | 16.99 | 276 | 375150 | 11.668 | ng | 96 |
| 88) Benzo(b)fluoranthene | 15.08 | 252 | 1000883m | 26.489 | ng | |
| 89) Benzo(k)fluoranthene | 15.09 | 252 | 321878m | 9.274 | ng | |
| 90) Benzo(a)pyrene | 15.44 | 252 | 682571 | 20.526 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 16.99 | 278 | 100210m | 3.627 | ng | |
| 92) Benzo(g,h,i)perylene | 17.44 | 276 | 423259 | 15.285 | ng | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051319\
Data File : BF114250.D
Acq On : 14 May 2019 1:25
Operator : JU/SJ
Sample : K2765-21DL 4X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: May 14 08:41:44 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 10 15:56:46 2019
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

**Manual Integrations APPROVED**
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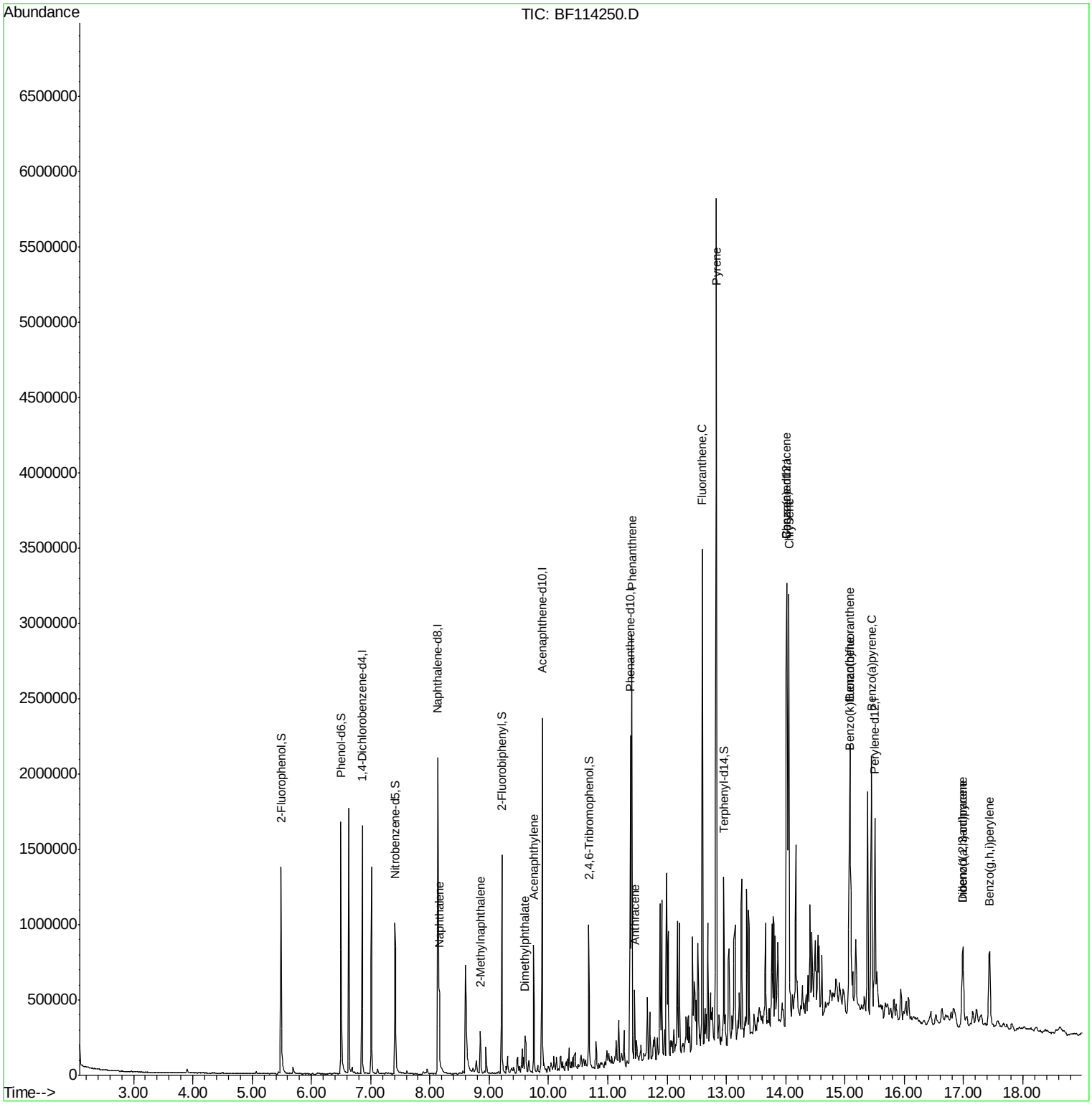
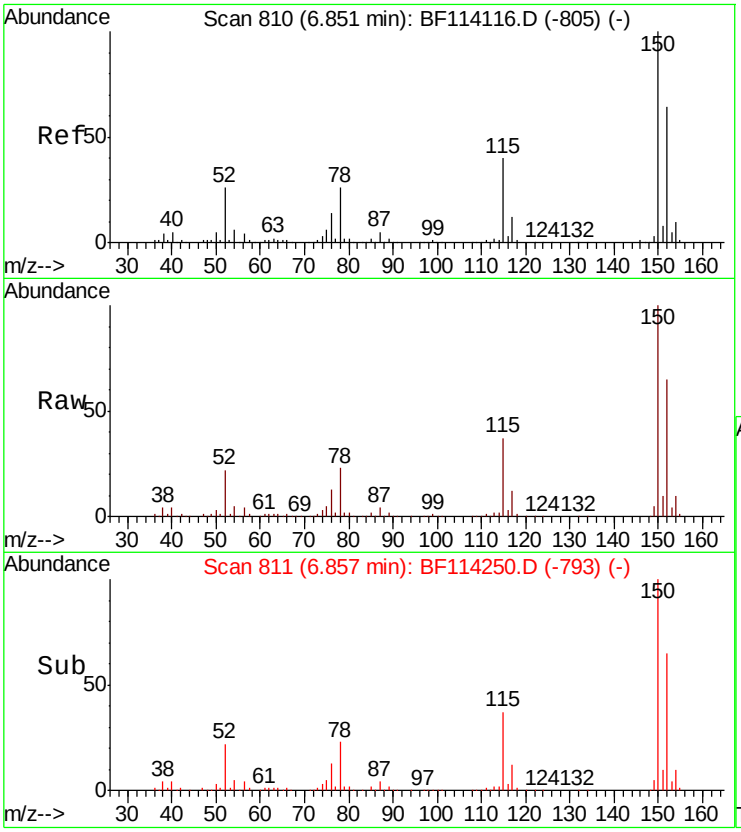
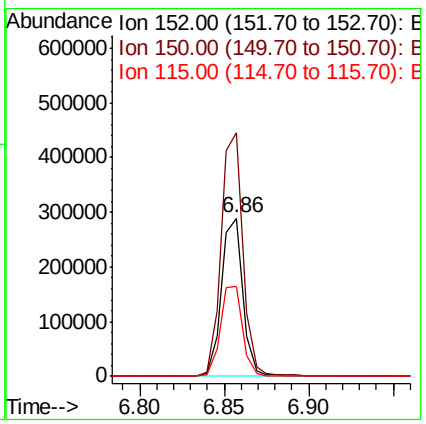





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:152 Resp: 255947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 153.7 | 124.3 | 186.5 |
| 115 | 56.9 | 49.1 | 73.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

**Manual Integrations APPROVED**
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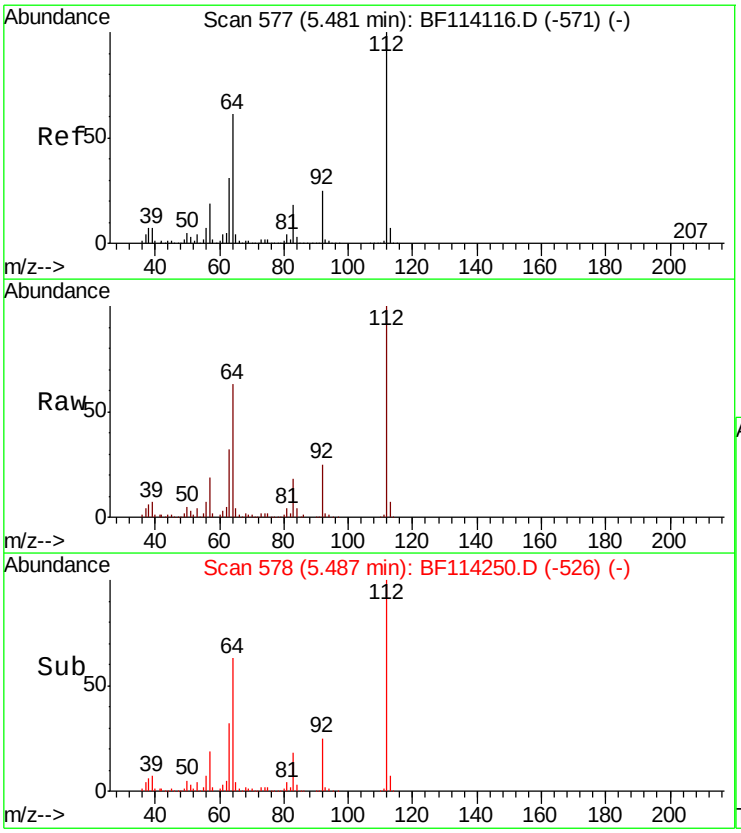
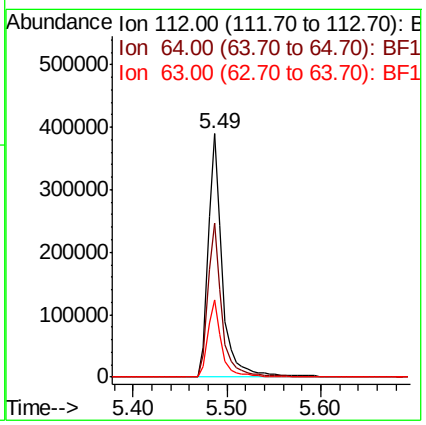
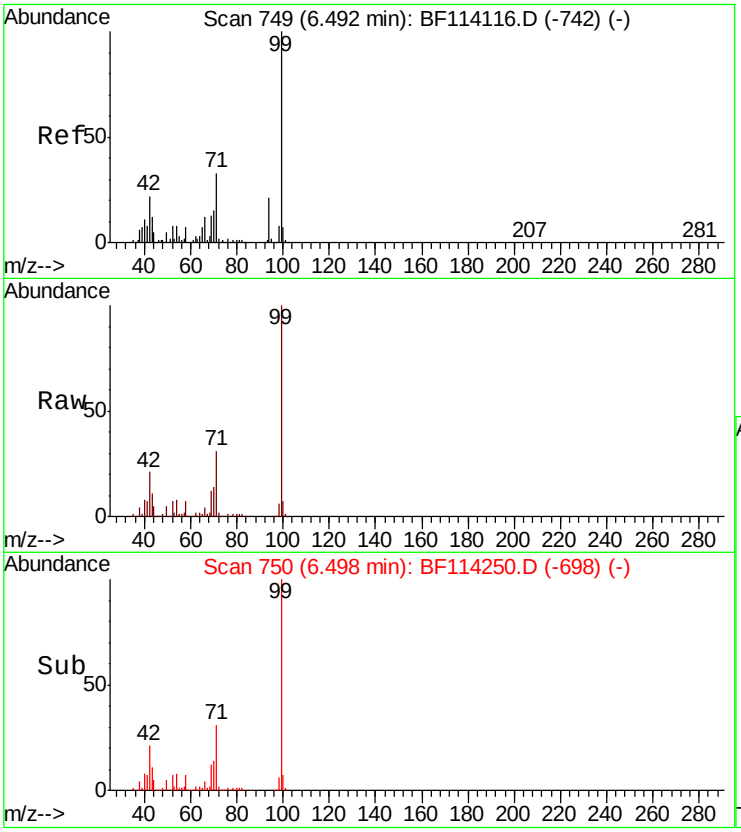



#5
2-Fluorophenol
Concen: 26.134 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:112 Resp: 415653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 63.2 | 49.0 | 73.6 |
| 63 | 31.7 | 24.6 | 37.0 |

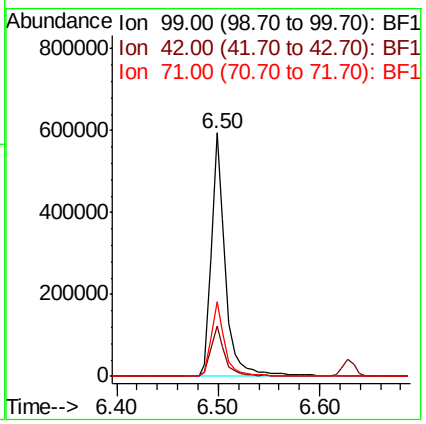





#7
Phenol-d6
Concen: 30.374 ng
RT: 6.50 min Scan# 750
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion: 99 Resp: 571365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 20.7 | 17.9 | 26.9 |
| 71 | 30.9 | 26.2 | 39.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

**Manual Integrations APPROVED**
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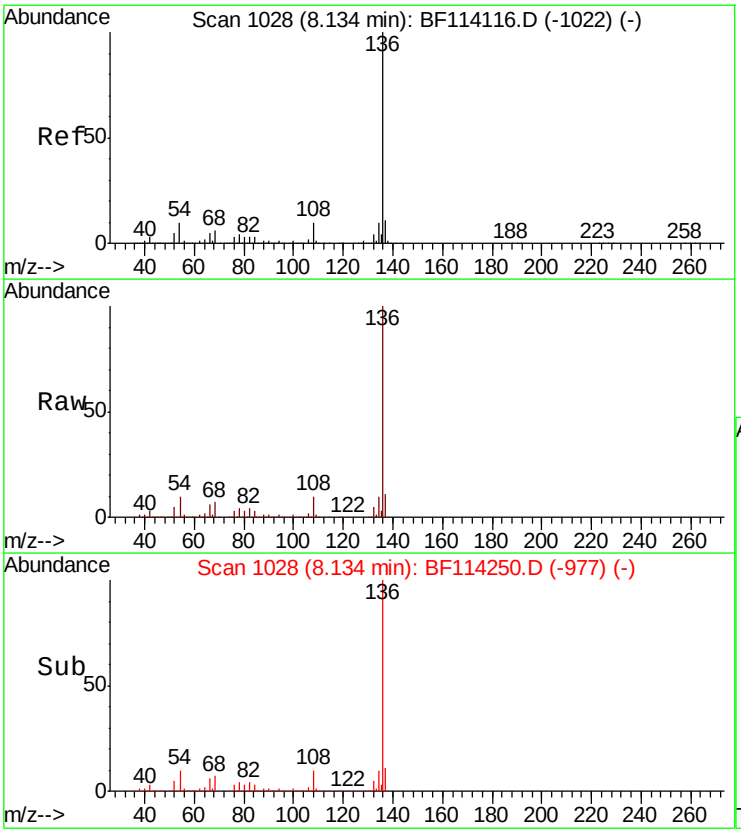
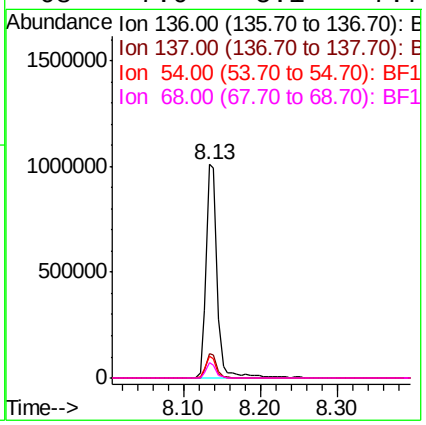
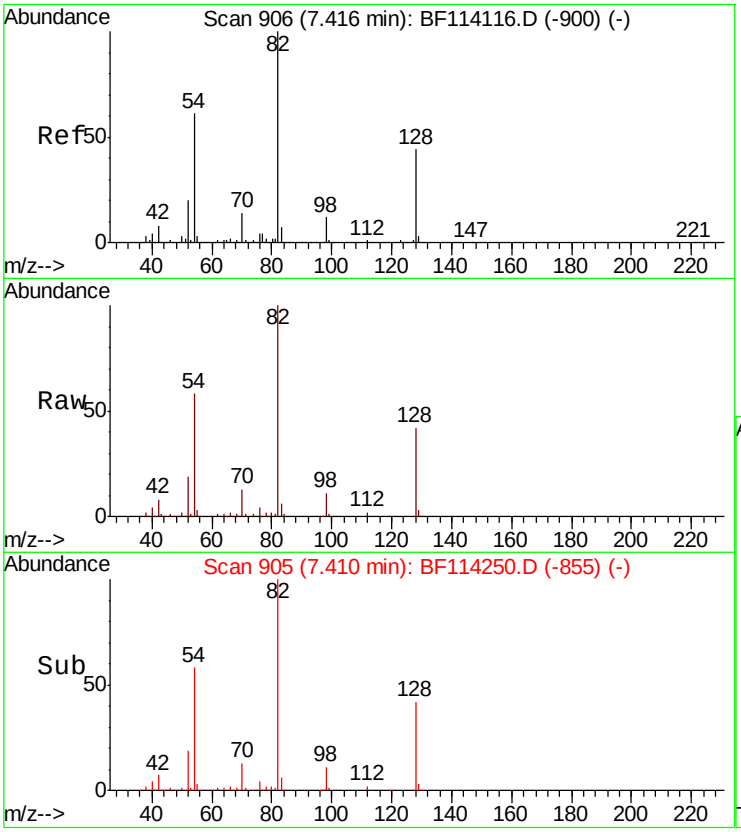



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:136 Resp: 1015312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.4 | 8.8 | 13.2 |
| 54 | 10.4 | 7.8 | 11.8 |
| 68 | 7.0 | 5.1 | 7.7 |

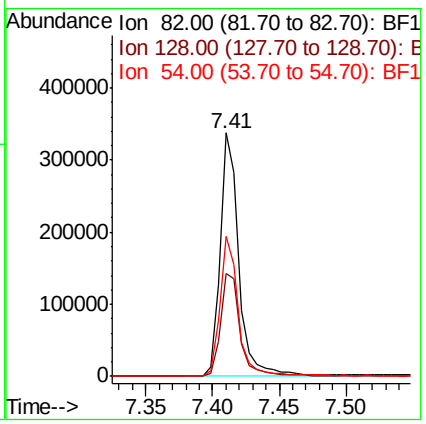





#23
Nitrobenzene-d5
Concen: 18.559 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion: 82 Resp: 335760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 42.2 | 35.5 | 53.3 |
| 54 | 57.7 | 48.5 | 72.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

**Manual Integrations APPROVED**
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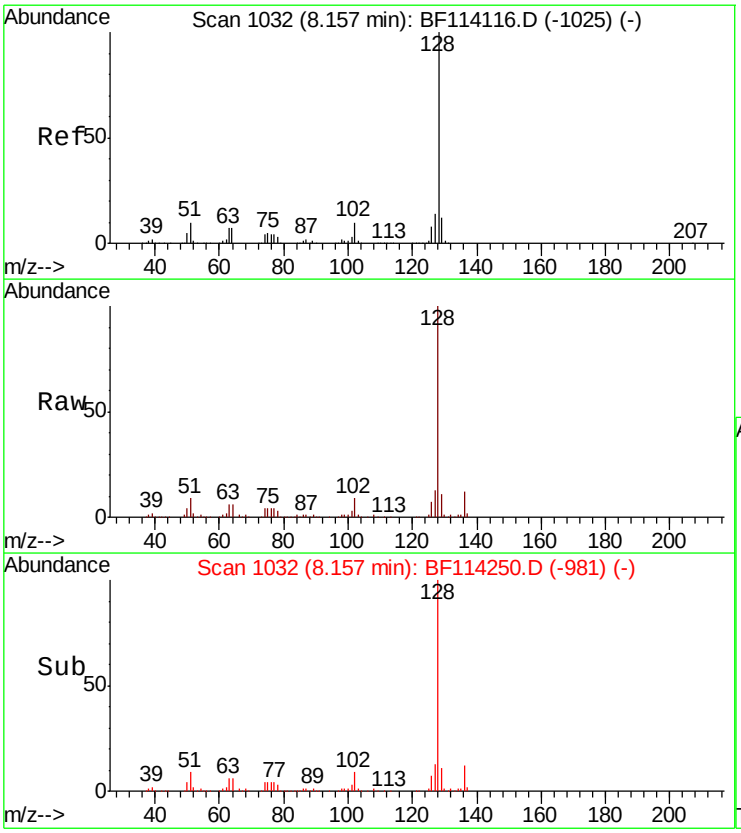
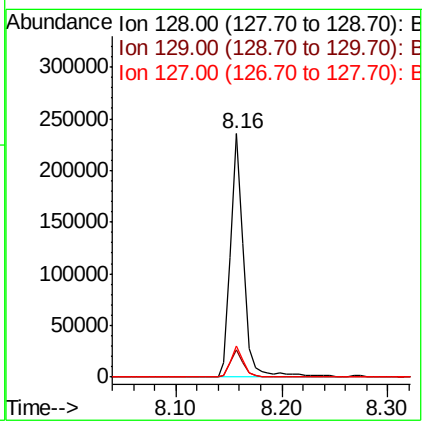
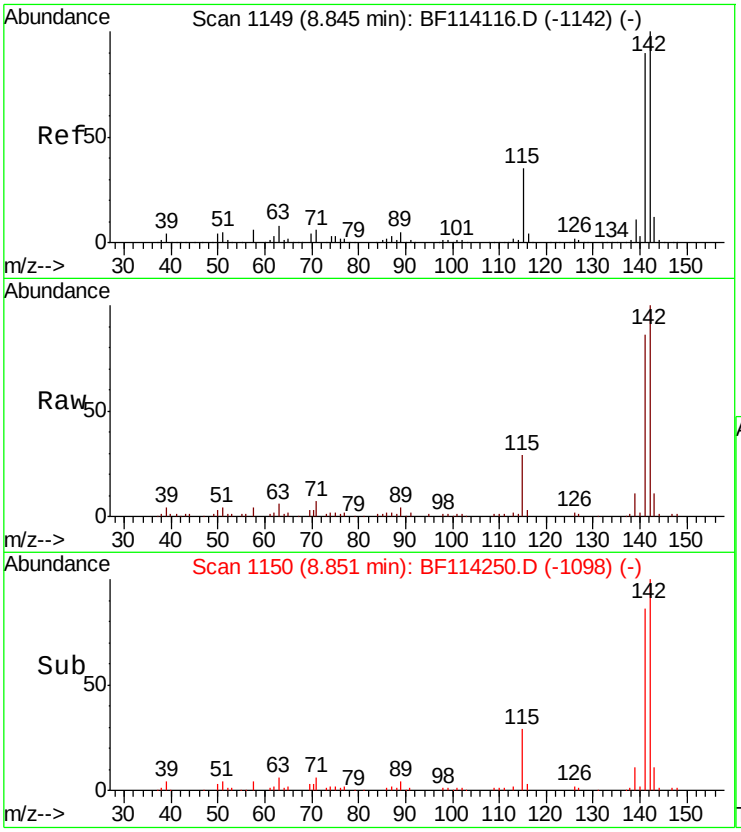



#31
Naphthalene
Concen: 4.231 ng
RT: 8.16 min Scan# 1032
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:128 Resp: 200668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.2 | 9.6 | 14.4 |
| 127 | 12.9 | 11.3 | 16.9 |

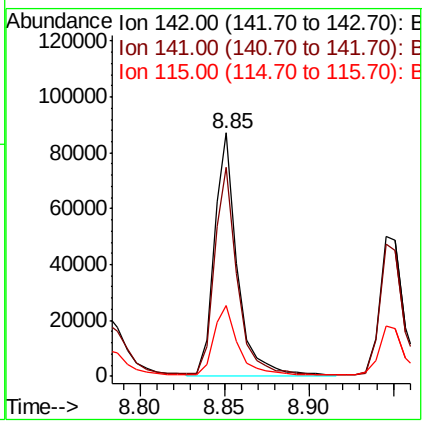





#37
2-Methylnaphthalene
Concen: 2.735 ng
RT: 8.85 min Scan# 1150
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:142 Resp: 83692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.9 | 72.1 | 108.1 |
| 115 | 29.1 | 28.0 | 42.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

**Manual Integrations APPROVED**
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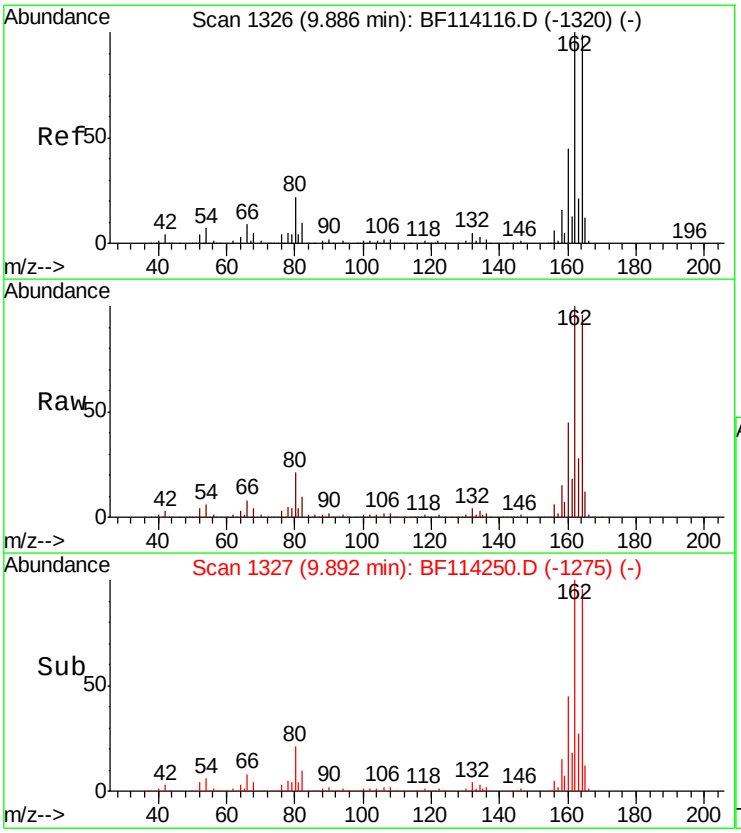
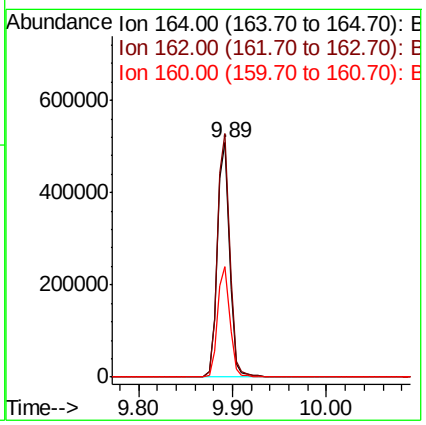
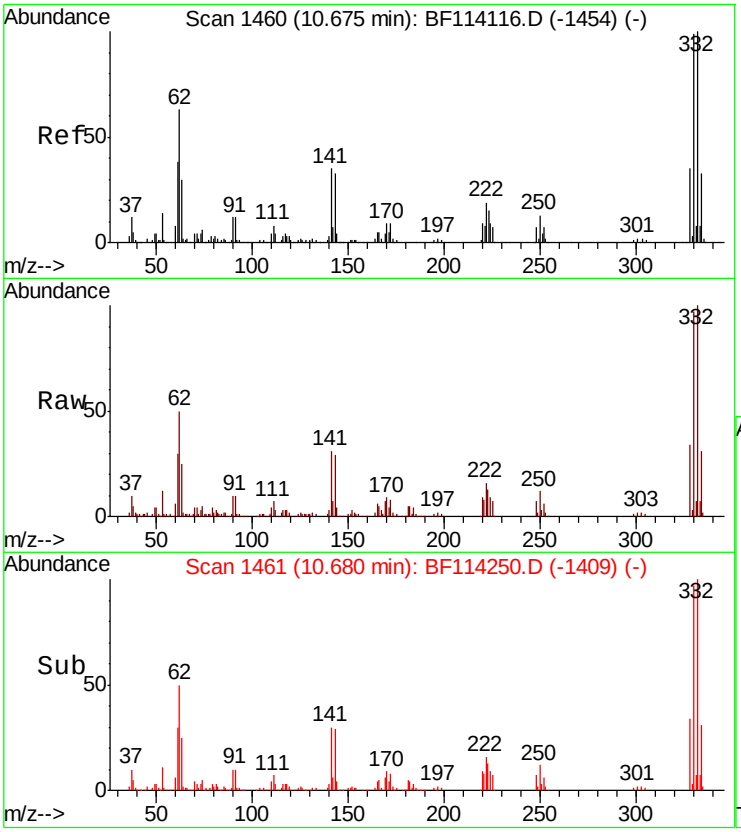



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:164 Resp: 467353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 104.0 | 80.6 | 120.8 |
| 160 | 47.2 | 36.5 | 54.7 |

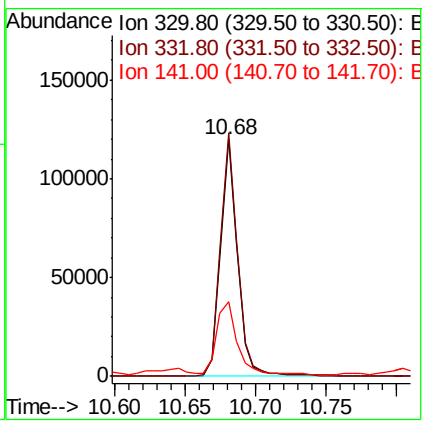





#42
2,4,6-Tribromophenol
Concen: 20.992 ng
RT: 10.68 min Scan# 1461
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:330 Resp: 101427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 104.0 | 81.4 | 122.2 |
| 141 | 38.6 | 26.6 | 40.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

**Manual Integrations APPROVED**
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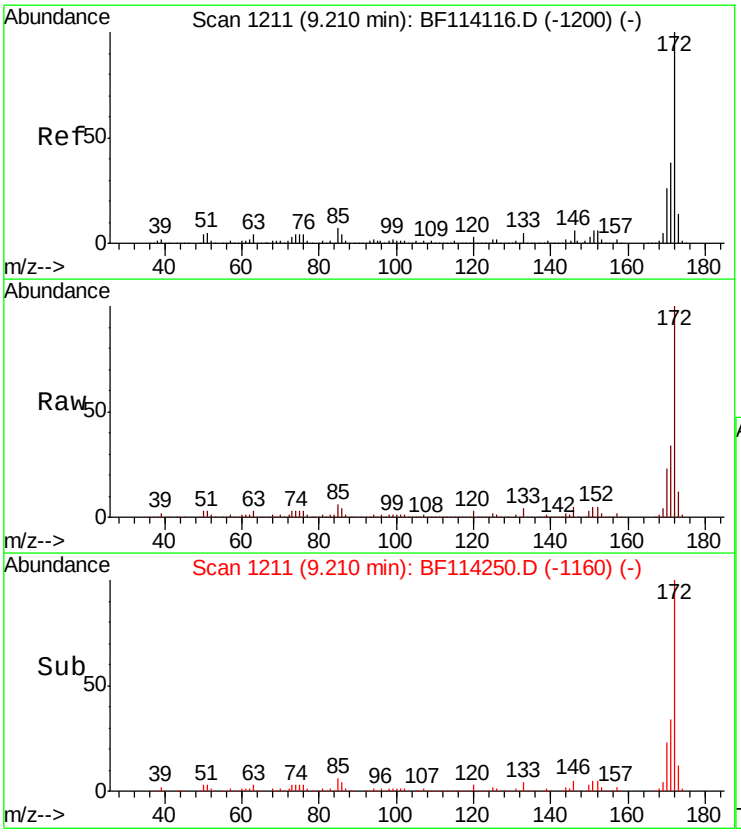
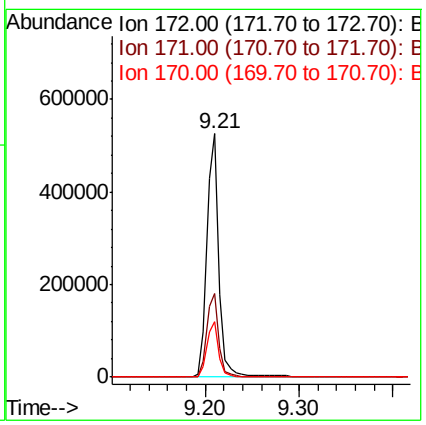
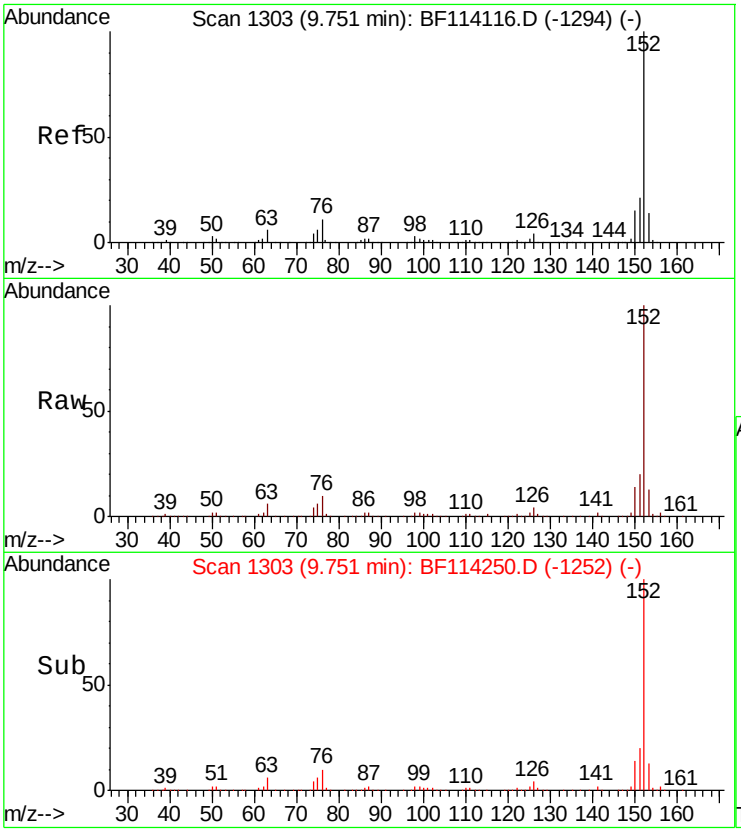



#45
2-Fluorobiphenyl
Concen: 15.307 ng
RT: 9.21 min Scan# 1211
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:172 Resp: 472926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.2 | 30.7 | 46.1 |
| 170 | 22.9 | 20.5 | 30.7 |

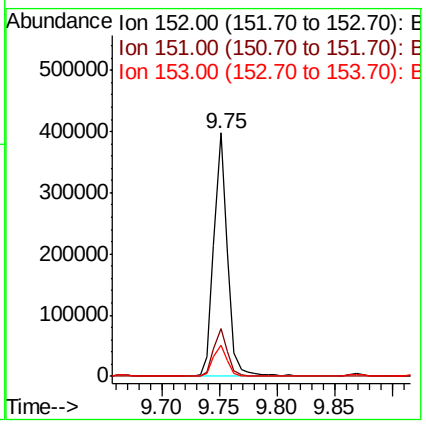





#49
Acenaphthylene
Concen: 7.053 ng
RT: 9.75 min Scan# 1303
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:152 Resp: 325951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.6 | 16.8 | 25.2 |
| 153 | 12.9 | 11.4 | 17.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

**Manual Integrations APPROVED**
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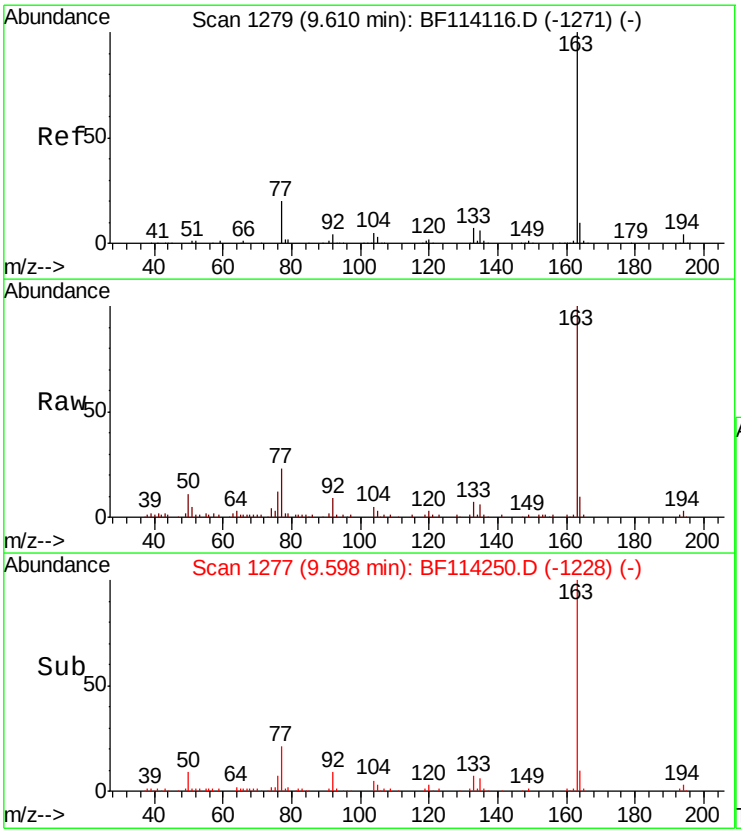
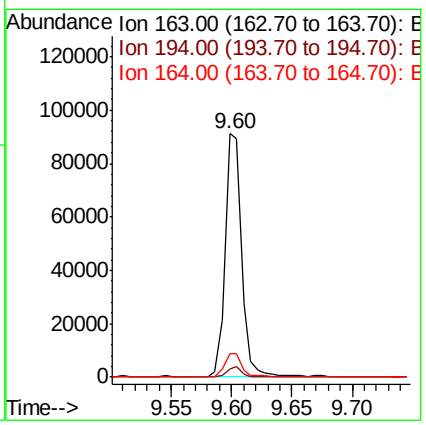
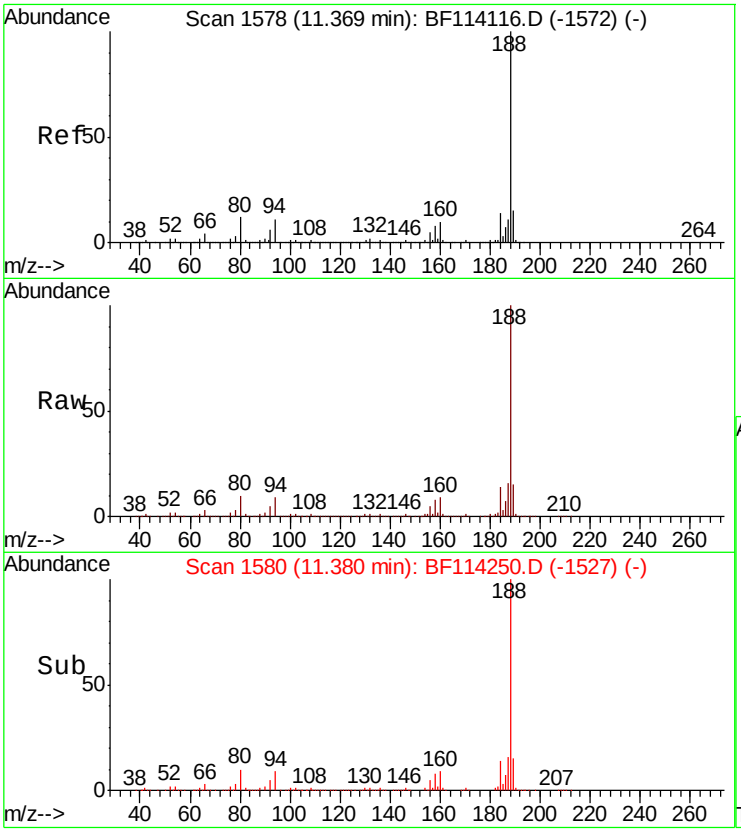



#50
Dimethylphthalate
Concen: 2.543 ng
RT: 9.60 min Scan# 1277
Delta R.T. -0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:163 Resp: 87244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.5 | 3.4 | 5.0 |
| 164 | 9.6 | 8.2 | 12.2 |

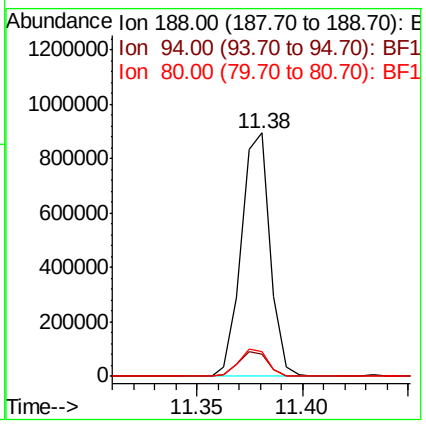





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:188 Resp: 847370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.4 | 8.4 | 12.6 |
| 80 | 10.2 | 9.2 | 13.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

**Manual Integrations APPROVED**
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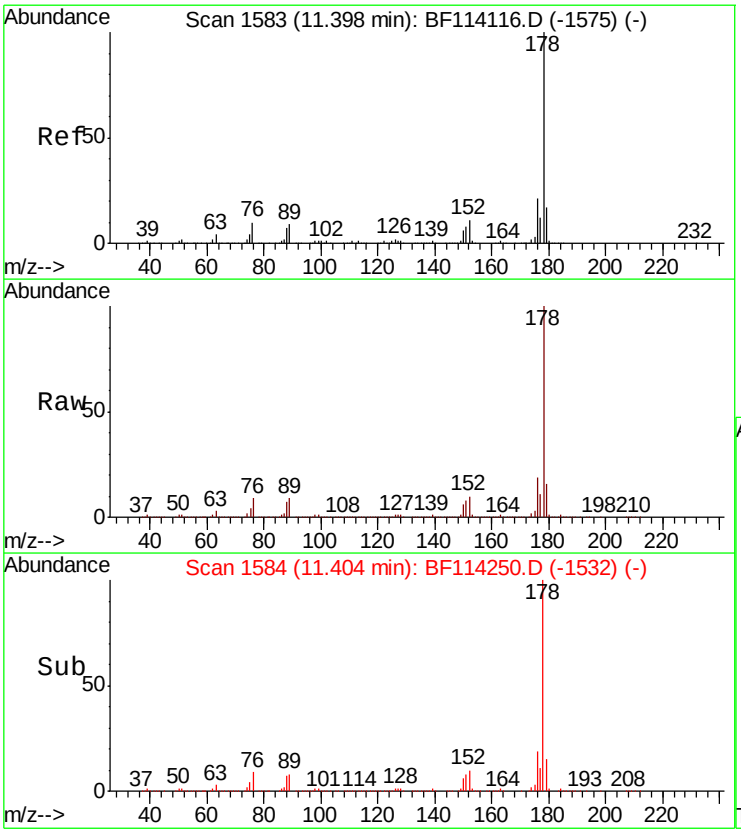
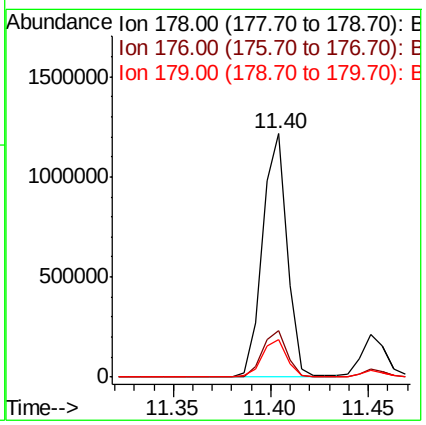
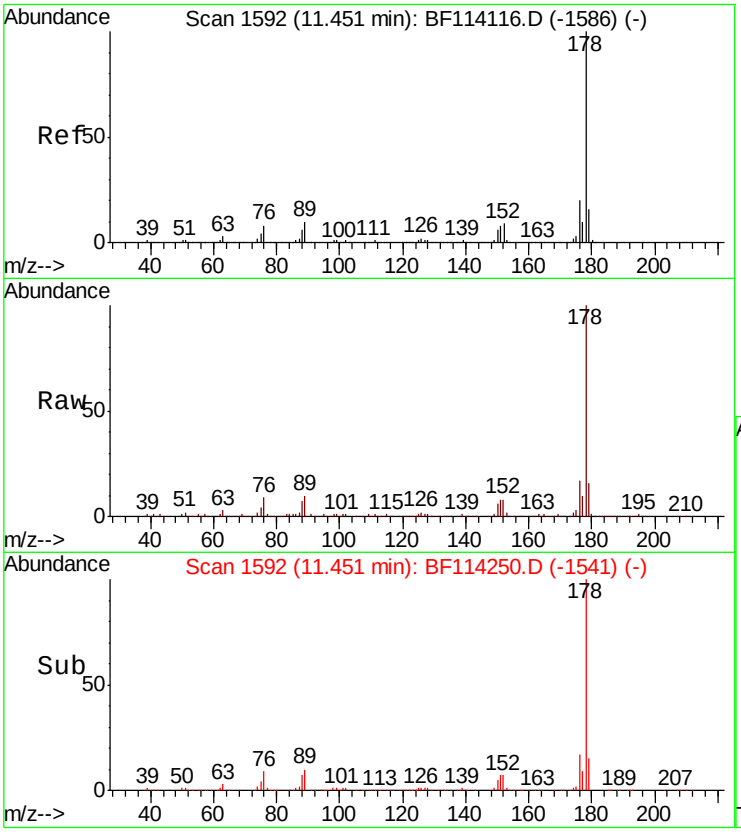



#71
Phenanthrene
Concen: 25.749 ng
RT: 11.40 min Scan# 1584
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:178 Resp: 1061507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 16.4 | 24.6 |
| 179 | 15.5 | 13.2 | 19.8 |

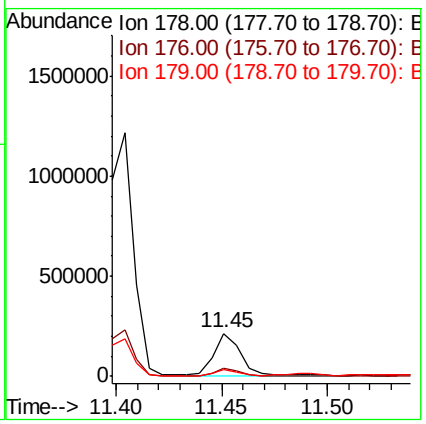





#72
Anthracene
Concen: 4.541 ng
RT: 11.45 min Scan# 1592
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:178 Resp: 188050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.5 | 15.8 | 23.8 |
| 179 | 15.9 | 13.0 | 19.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

**Manual Integrations APPROVED**
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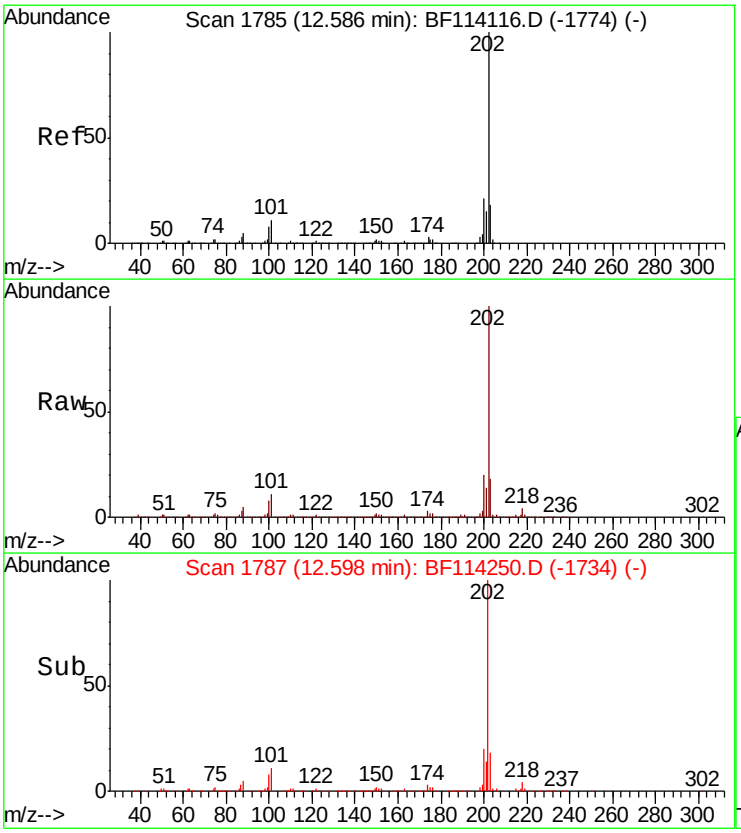
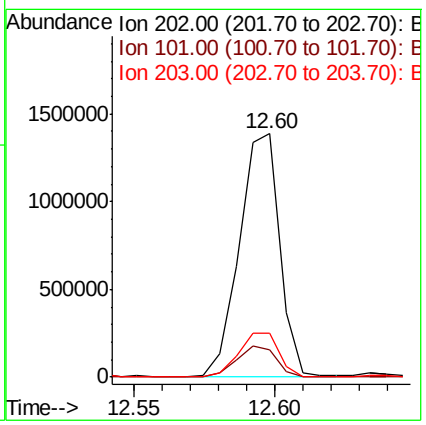
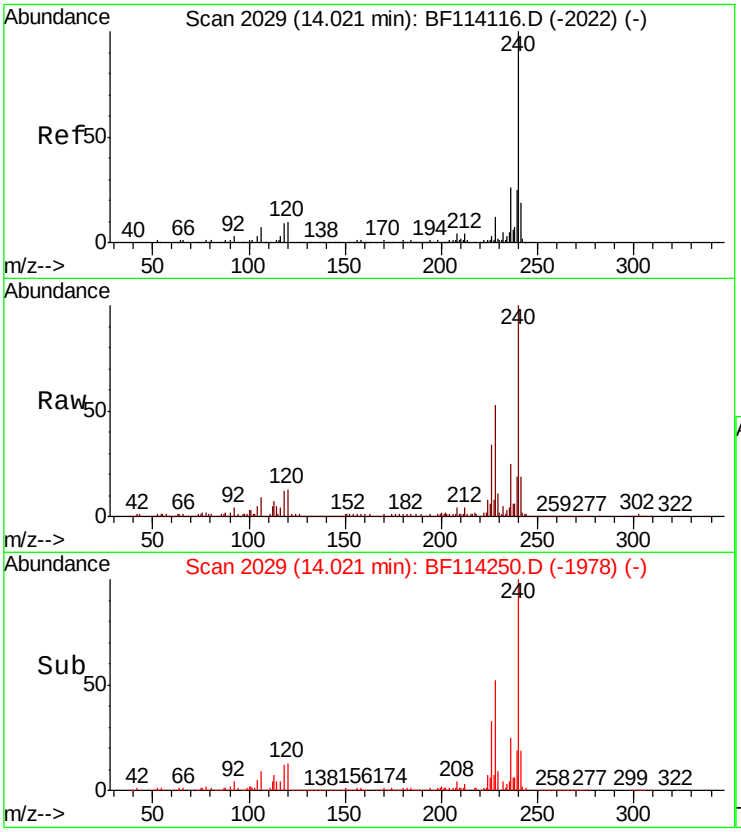



#75
Fluoranthene
Concen: 30.948 ng
RT: 12.60 min Scan# 1787
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:202 Resp: 1373907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 0.0 | 31.0 |
| 203 | 18.0 | 0.0 | 38.4 |

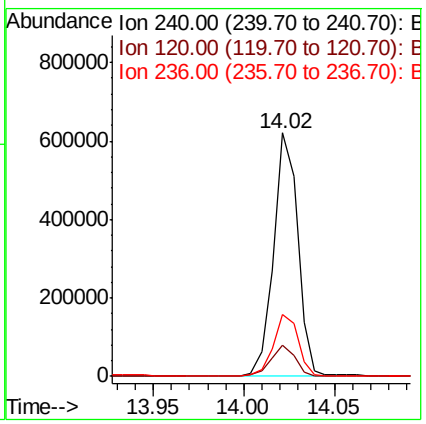





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:240 Resp: 573773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.8 | 8.3 | 12.5# |
| 236 | 25.3 | 20.8 | 31.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
P026-SS006-0002-02DL

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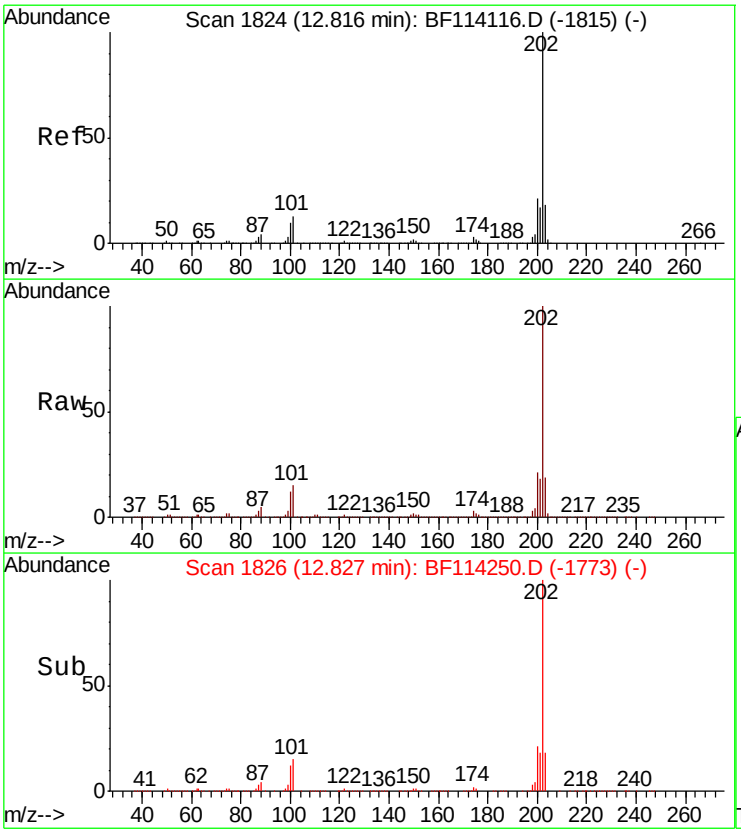
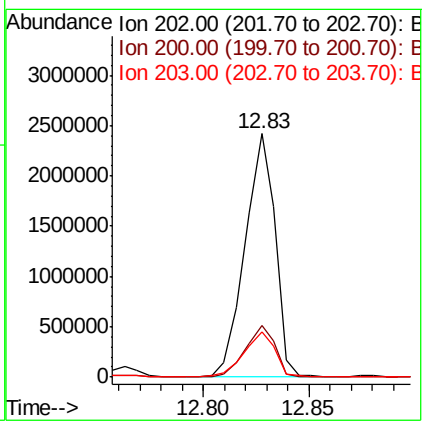
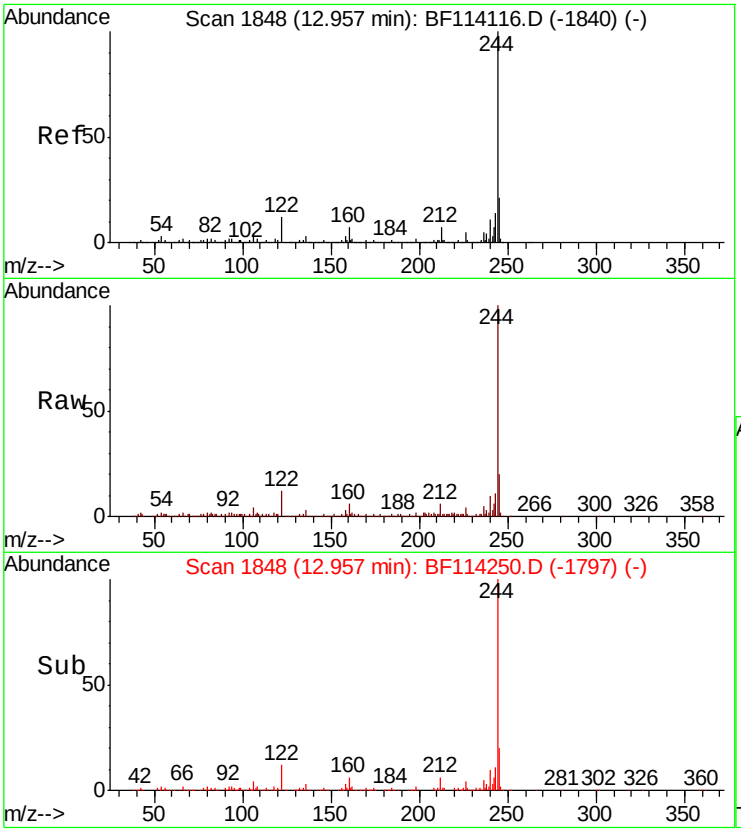



#78
Pyrene
Concen: 51.771 ng
RT: 12.83 min Scan# 1826
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:202 Resp: 2389613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 16.9 | 25.3 |
| 203 | 18.6 | 14.5 | 21.7 |

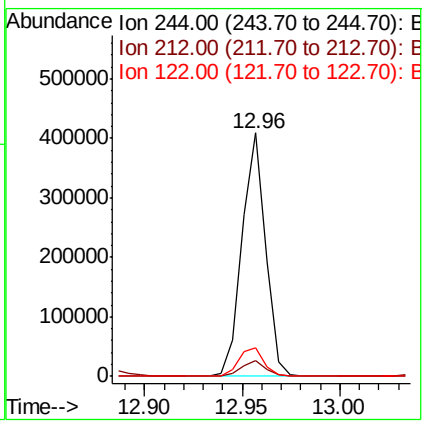





#79
Terphenyl-d14
Concen: 12.234 ng
RT: 12.96 min Scan# 1848
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:244 Resp: 340505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.4 | 5.8 | 8.6 |
| 122 | 12.0 | 9.4 | 14.2 |




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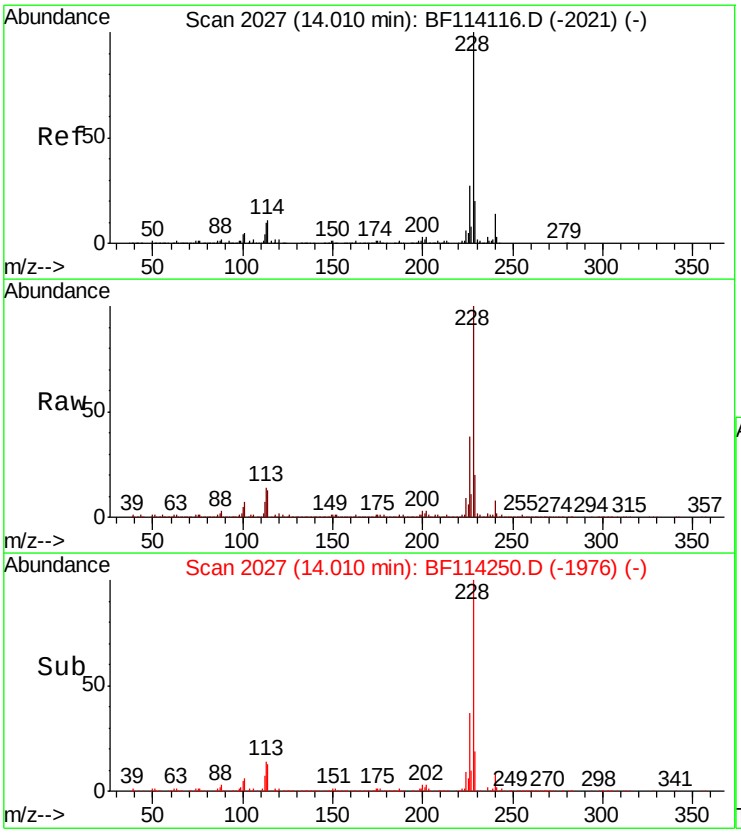
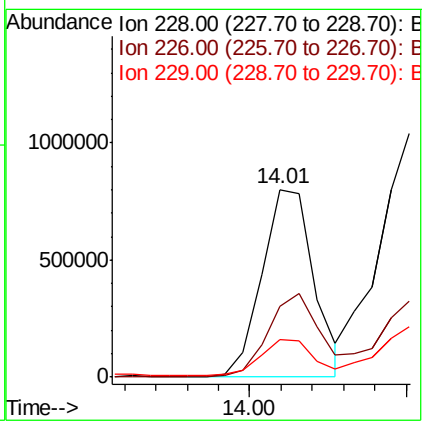
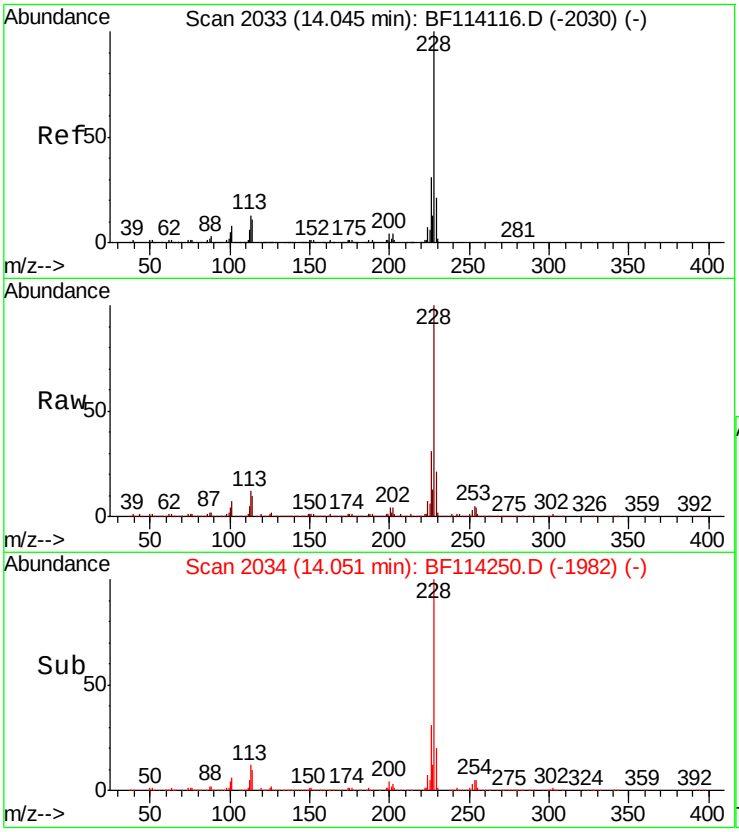



#81
Benzo(a)anthracene
Concen: 24.916 ng m
RT: 14.01 min Scan# 2027
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:228 Resp: 924670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 37.6 | 22.2 | 33.2# |
| 229 | 20.1 | 16.4 | 24.6 |

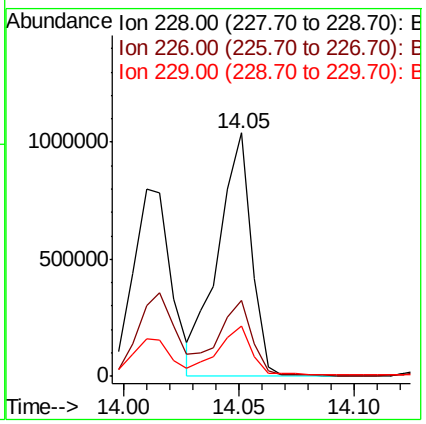





#83
Chrysene
Concen: 28.656 ng
RT: 14.05 min Scan# 2034
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:228 Resp: 1042476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.3 | 25.0 | 37.6 |
| 229 | 20.7 | 17.0 | 25.6 |




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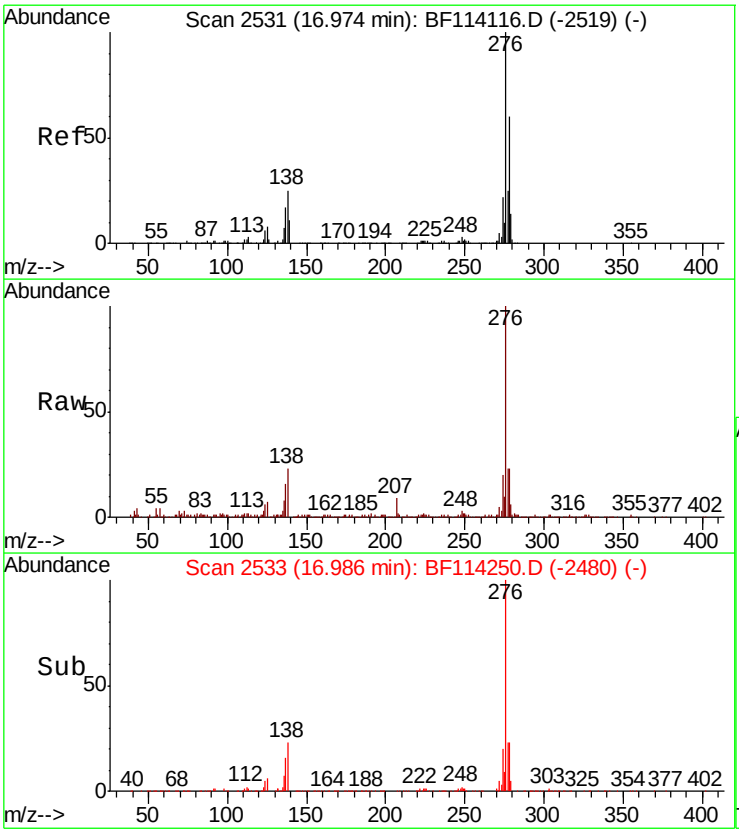
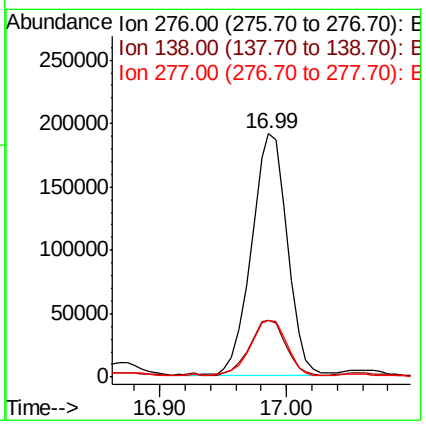
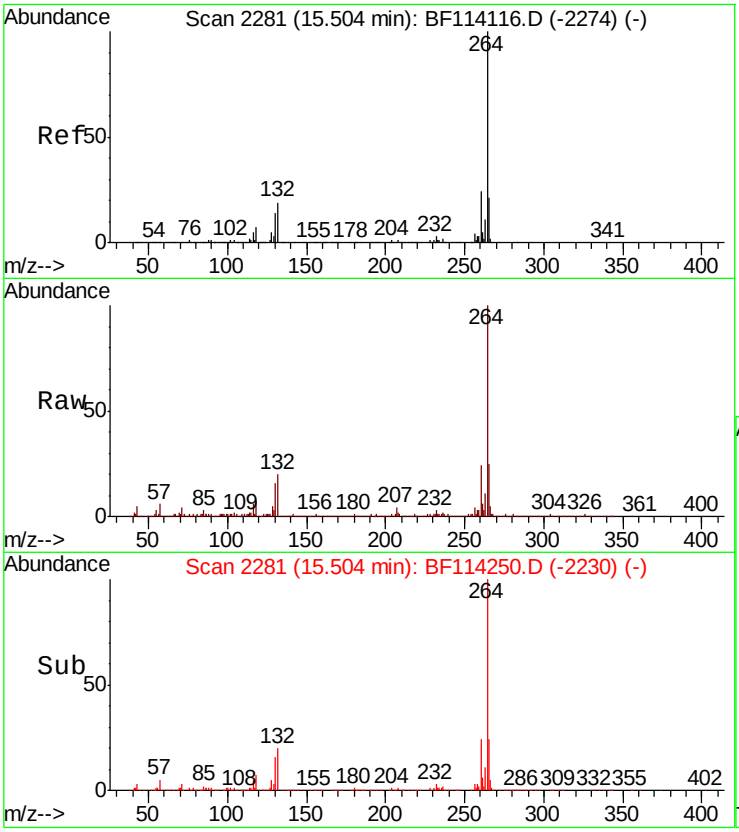



#86
Indeno(1,2,3-cd)pyrene
Concen: 11.668 ng
RT: 16.99 min Scan# 2533
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:276 Resp: 375150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.7 | 20.2 | 30.2 |
| 277 | 23.0 | 20.0 | 30.0 |

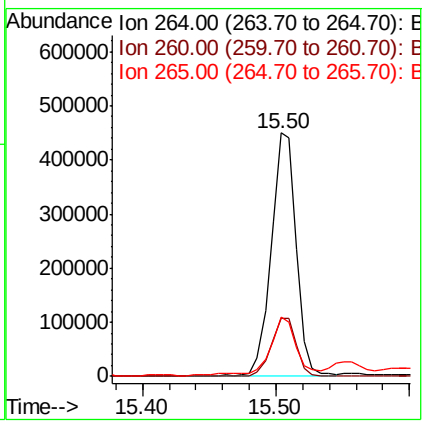





#87
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:264 Resp: 589786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 19.4 | 29.0 |
| 265 | 24.6 | 16.9 | 25.3 |




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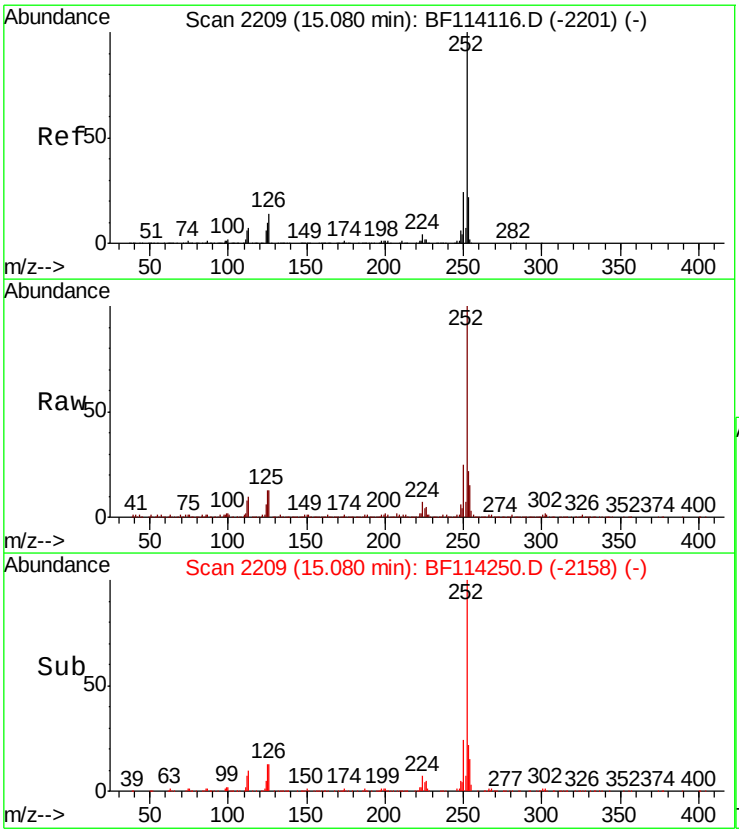
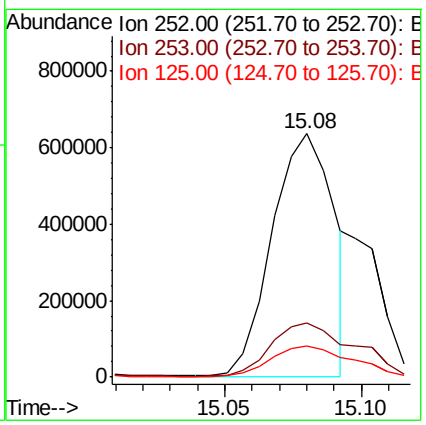
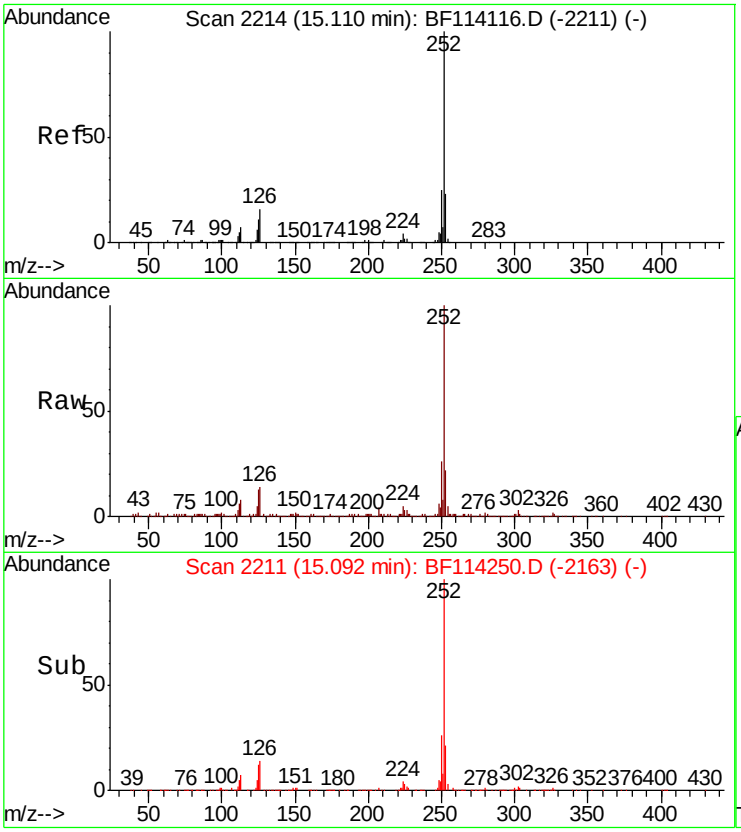



#88
Benzo(b)fluoranthene
Concen: 26.489 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:252 Resp: 1000883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 17.8 | 26.8 |
| 125 | 13.0 | 8.3 | 12.5# |






#89
Benzo(k)fluoranthene
Concen: 9.274 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.02 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:252 Resp: 321878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 18.2 | 27.2 |
| 125 | 13.0 | 8.6 | 13.0# |

**Instrument :**
BNA_F
**ClientSampleId :**
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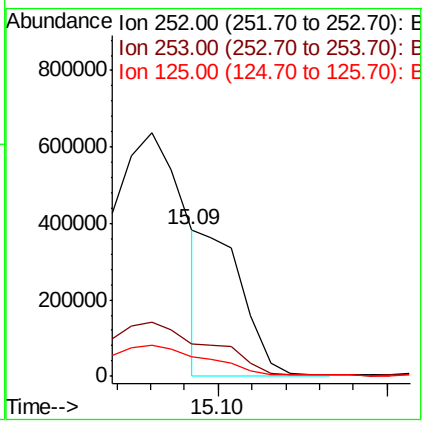
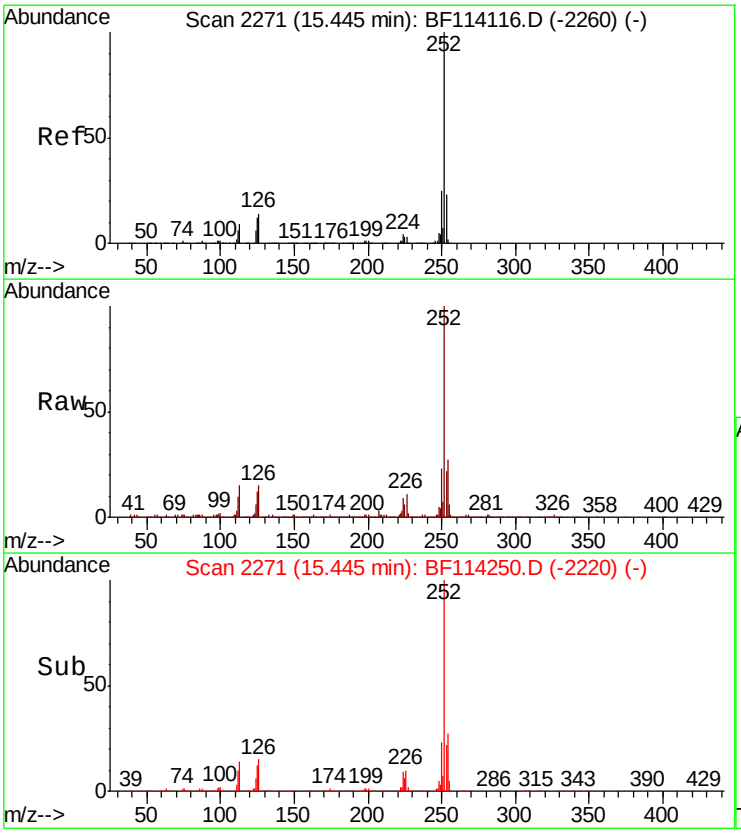
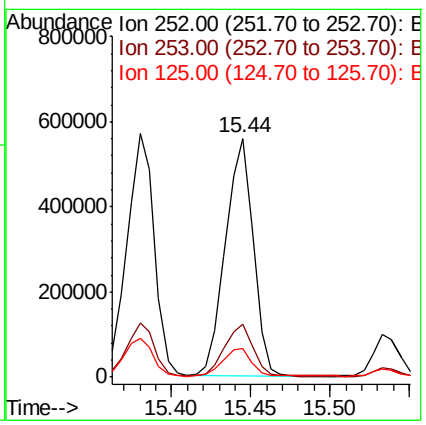


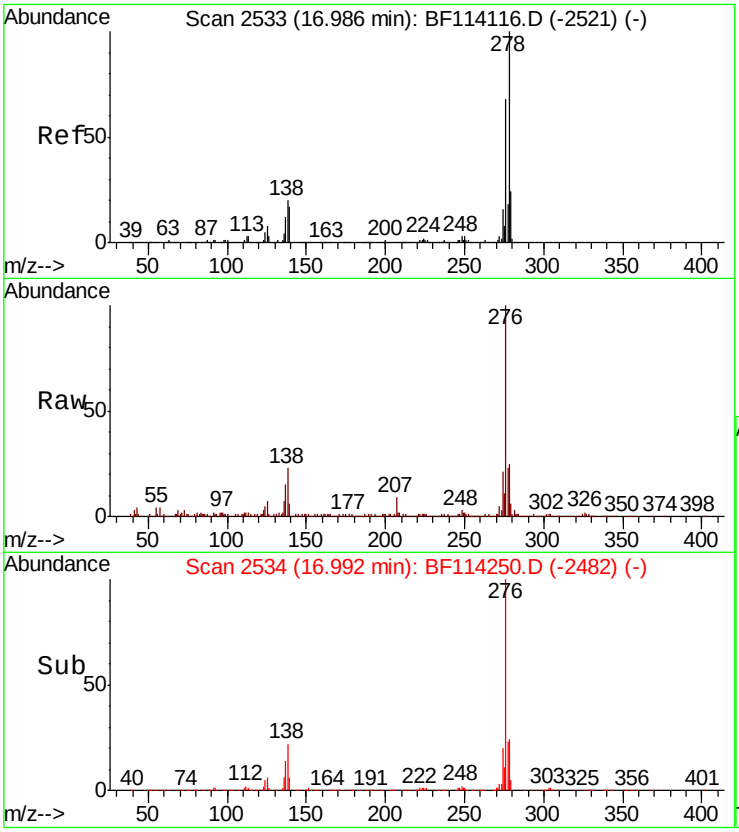




#90
Benzo(a)pyrene
Concen: 20.526 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.00 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:252 Resp: 682571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.4 | 18.1 | 27.1 |
| 125 | 12.0 | 9.5 | 14.3 |

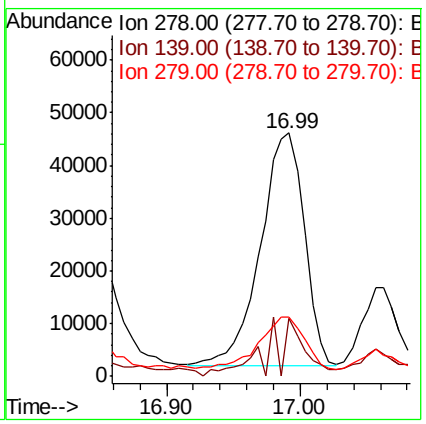





#91
Dibenzo(a,h)anthracene
Concen: 3.627 ng m
RT: 16.99 min Scan# 2534
Delta R.T. 0.01 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:278 Resp: 100210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 24.0 | 13.5 | 20.3# |
| 279 | 24.2 | 19.0 | 28.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
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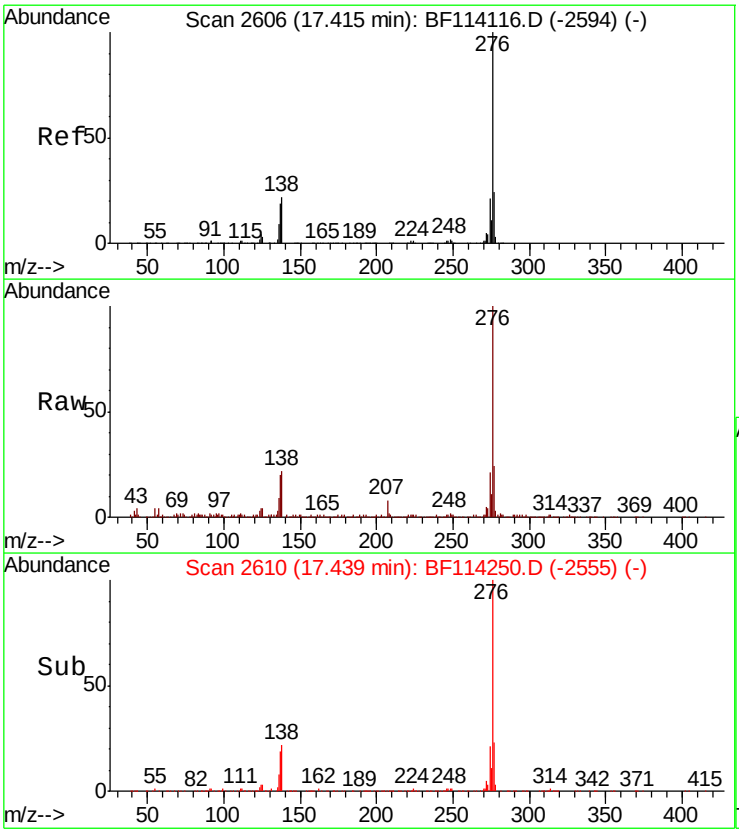


#92
Benzo(g,h,i)perylene
Concen: 15.285 ng
RT: 17.44 min Scan# 2610
Delta R.T. 0.02 min
Lab File: BF114250.D
Acq: 14 May 2019 1:25

Tgt Ion:276 Resp: 423259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.8 | 19.0 | 28.4 |
| 138 | 22.3 | 17.8 | 26.6 |