Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052725\
Data File : BF142560.D
Acq On : 27 May 2025 14:26
Operator : RC/JU
Sample : Q2109-01DL 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Quant Time: May 27 15:11:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.898 | 152 | 92452 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.181 | 136 | 354098 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.933 | 164 | 185359 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.427 | 188 | 277492 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.068 | 240 | 220989 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.563 | 264 | 208742 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 196989 | 35.897 | ng | -0.01 |
| 7) Phenol-d6 | 6.516 | 99 | 260711 | 39.468 | ng | -0.02 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 135916 | 20.930 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol | 10.722 | 330 | 70221 | 34.133 | ng | -0.02 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 329171 | 23.830 | ng | -0.02 |
| 79) Terphenyl-d14 | 13.010 | 244 | 289027 | 17.873 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 31) Naphthalene | 8.198 | 128 | 48750 | 2.796 | ng | 98 |
| 37) 2-Methylnaphthalene | 8.892 | 142 | 26690 | 2.433 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.992 | 142 | 42312 | 3.729 | ng | 99 |
| 49) Acenaphthylene | 9.798 | 152 | 38580 | 2.150 | ng | 98 |
| 52) Acenaphthene | 9.969 | 154 | 58770 | 5.365 | ng | 99 |
| 55) Dibenzofuran | 10.139 | 168 | 92153 | 5.846 | ng | 96 |
| 58) Fluorene | 10.486 | 166 | 142338 | 11.687 | ng | 99 |
| 71) Phenanthrene | 11.451 | 178 | 629306 | 42.436 | ng | 99 |
| 72) Anthracene | 11.498 | 178 | 152774 | 10.094 | ng | 99 |
| 73) Carbazole | 11.651 | 167 | 53247 | 4.115 | ng | 99 |
| 75) Fluoranthene | 12.639 | 202 | 553955 | 39.977 | ng | 99 |
| 78) Pyrene | 12.869 | 202 | 481964 | 23.379 | ng | 98 |
| 81) Benzo(a)anthracene | 14.057 | 228 | 232454 | 15.753 | ng | 95 |
| 83) Chrysene | 14.092 | 228 | 170682 | 12.872 | ng | 98 |
| 87) Indeno(1,2,3-cd)pyrene | 17.062 | 276 | 52116 | 3.326 | ng | 96 |
| 88) Benzo(b)fluoranthene | 15.121 | 252 | 226896m | 18.366 | ng | |
| 89) Benzo(k)fluoranthene | 15.139 | 252 | 74066m | 6.401 | ng | |
| 90) Benzo(a)pyrene | 15.498 | 252 | 149408 | 12.830 | ng | 99 |
| 92) Benzo(g,h,i)perylene | 17.521 | 276 | 45848 | 3.606 | ng | 97 |

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

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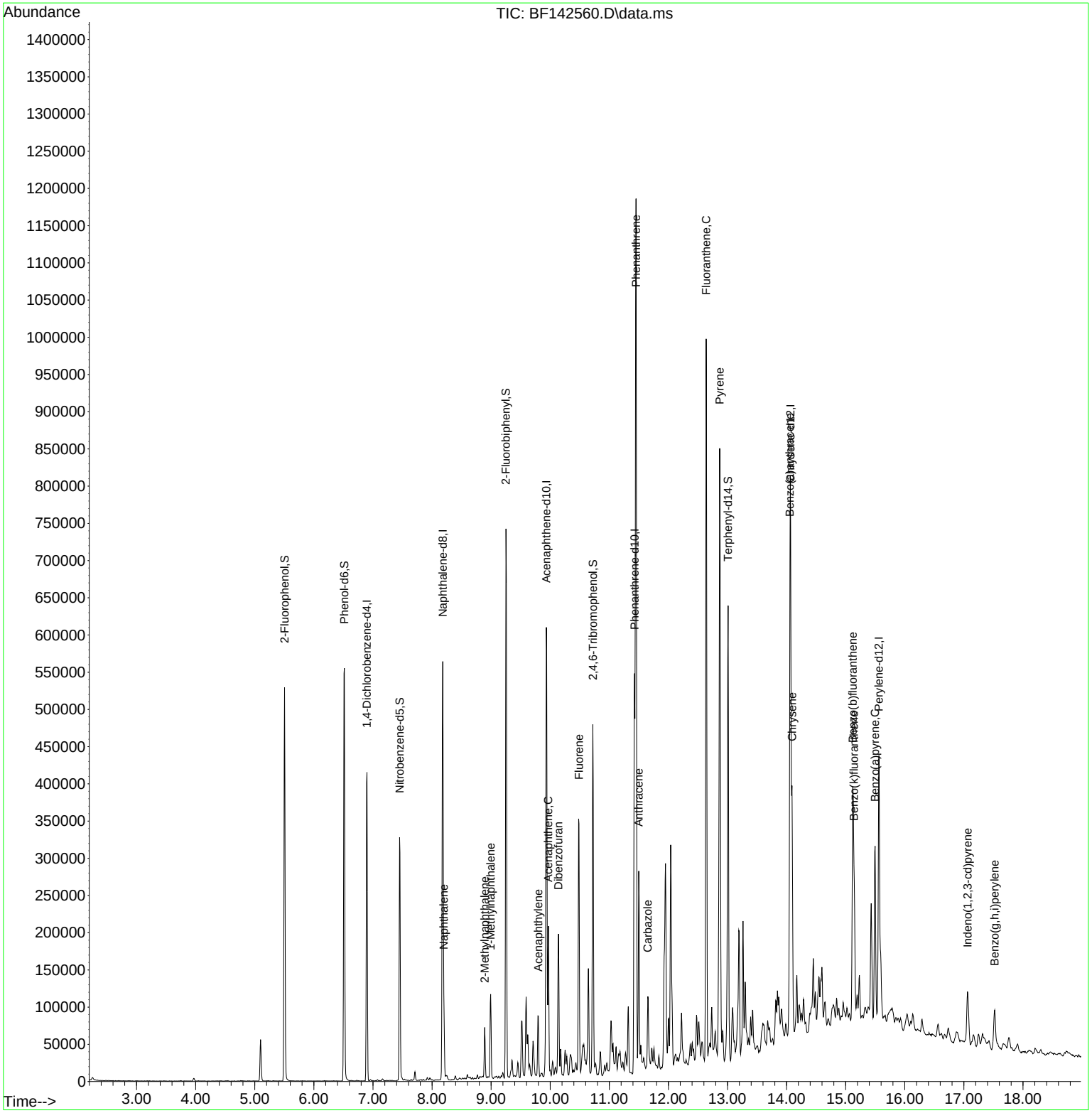
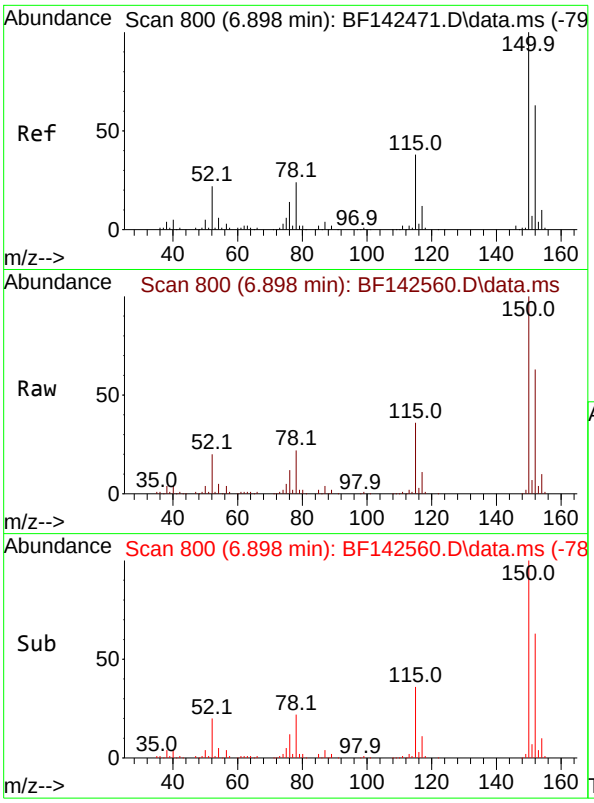
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Quant Time: May 27 15:11:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



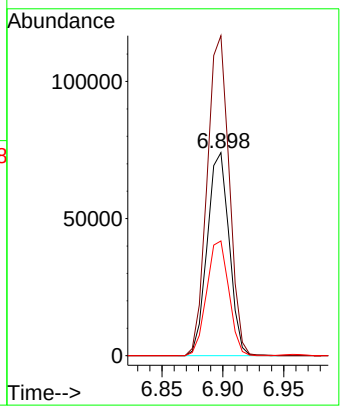


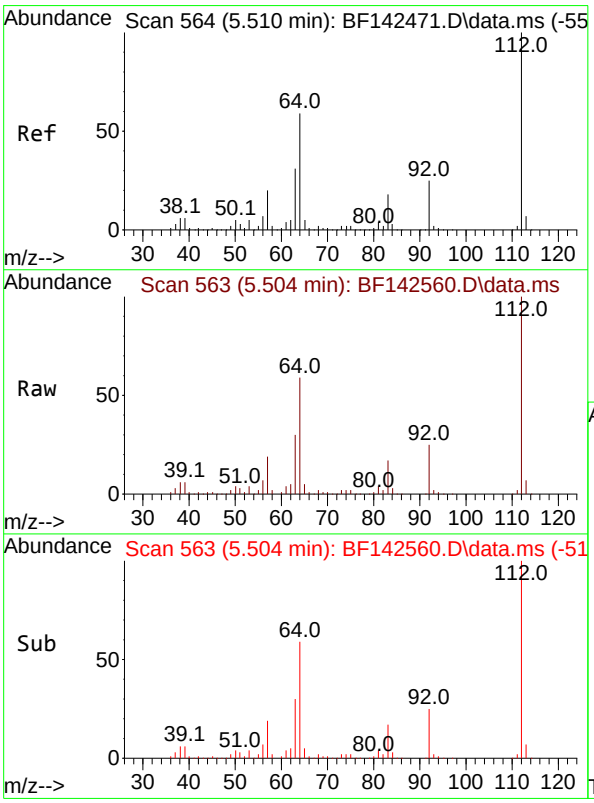

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:152 Resp: 92452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.6 | 128.2 | 192.4 |
| 115 | 56.5 | 48.3 | 72.5 |

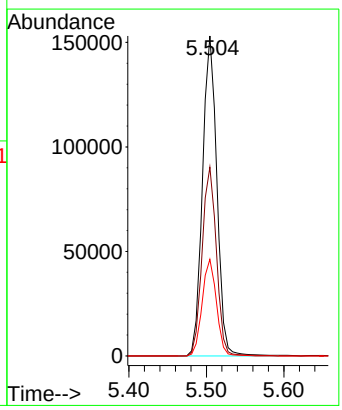


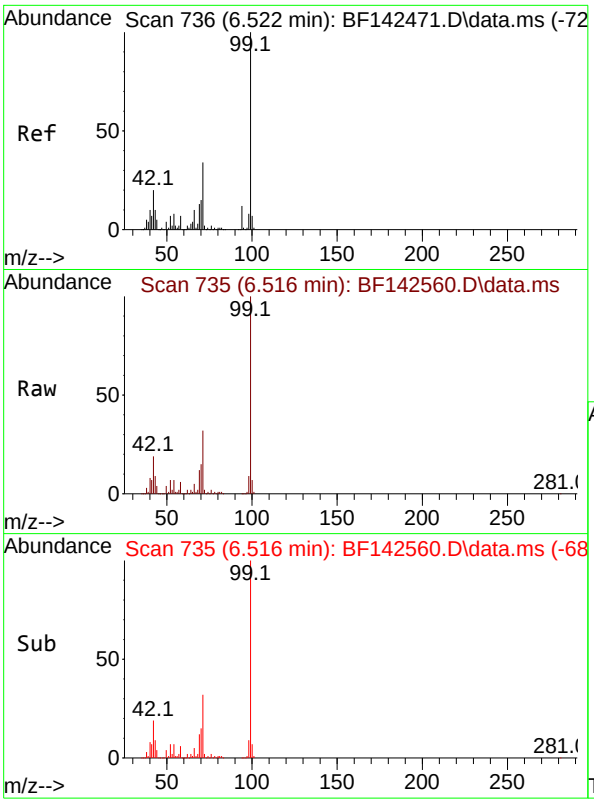




#5
2-Fluorophenol
Concen: 35.897 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:112 Resp: 196989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 59.0 | 47.5 | 71.3 |
| 63 | 30.2 | 24.9 | 37.3 |



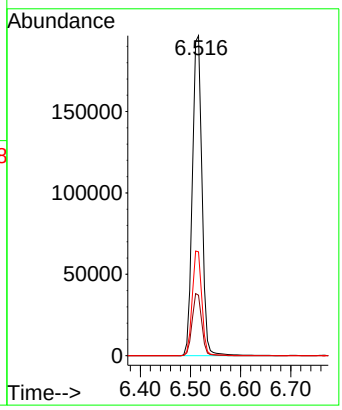


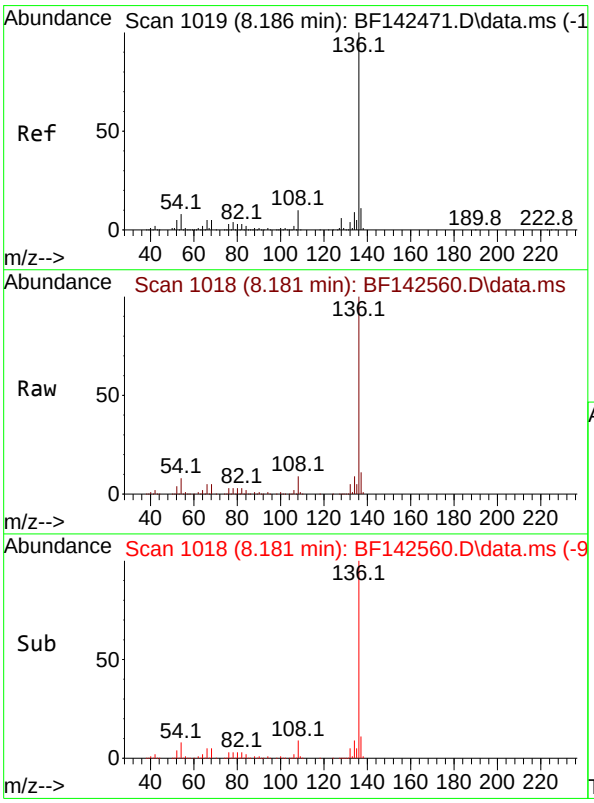

#7
Phenol-d6
Concen: 39.468 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion: 99 Resp: 260711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.9 | 16.2 | 24.2 |
| 71 | 32.5 | 27.3 | 40.9 |

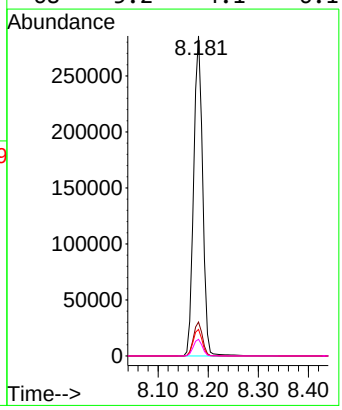


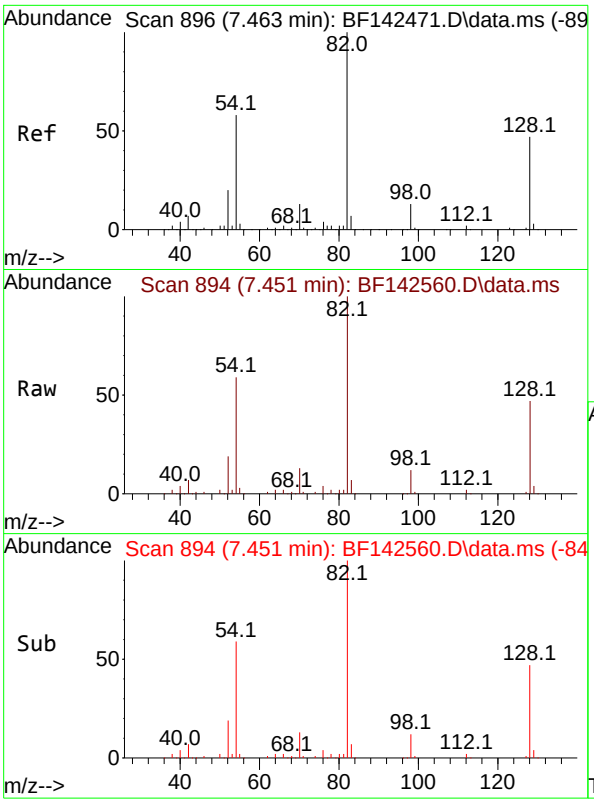




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:136 Resp: 354098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.6 | 8.6 | 13.0 |
| 54 | 8.3 | 6.6 | 10.0 |
| 68 | 5.2 | 4.1 | 6.1 |



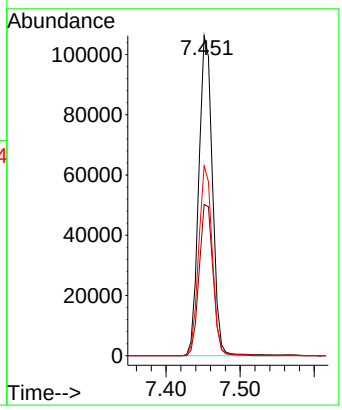


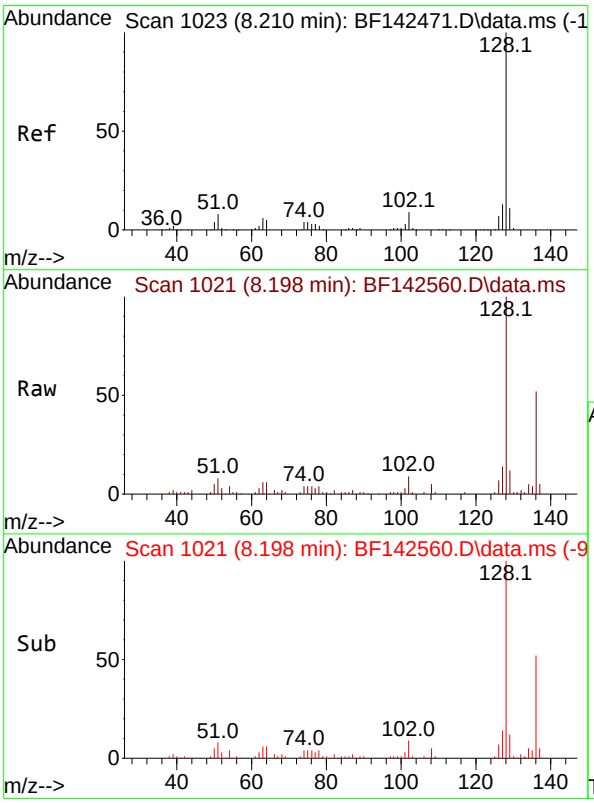

#23
Nitrobenzene-d5
Concen: 20.930 ng
RT: 7.451 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion: 82 Resp: 135916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 47.3 | 37.4 | 56.2 |
| 54 | 59.3 | 46.6 | 70.0 |

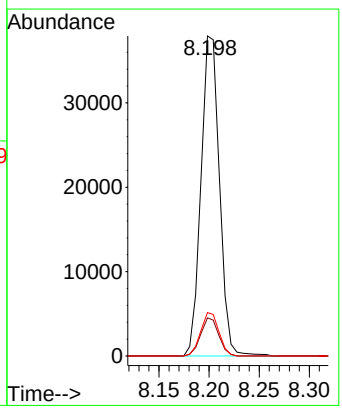


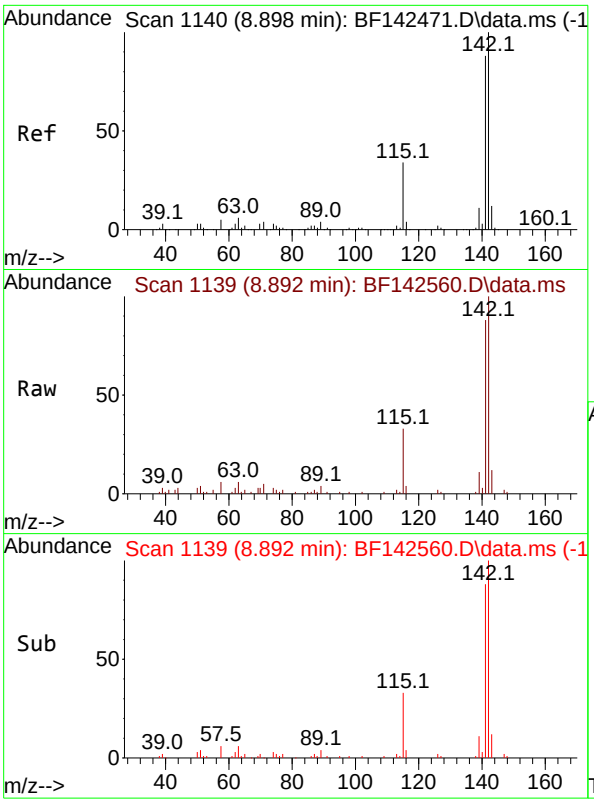




#31
Naphthalene
Concen: 2.796 ng
RT: 8.198 min Scan# 1021
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:128 Resp: 48750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.9 | 8.9 | 13.3 |
| 127 | 13.5 | 10.5 | 15.7 |



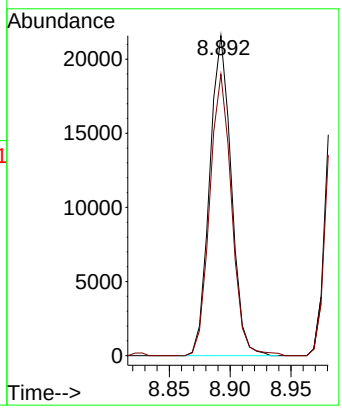


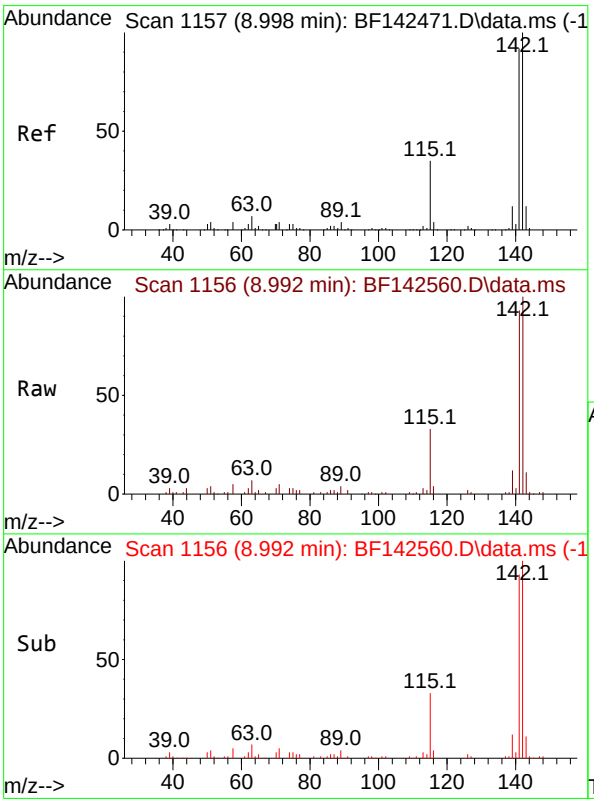

#37
2-Methylnaphthalene
Concen: 2.433 ng
RT: 8.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:142 Resp: 26690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.0 | 70.7 | 106.1 |

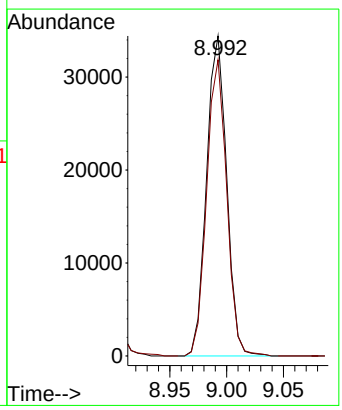


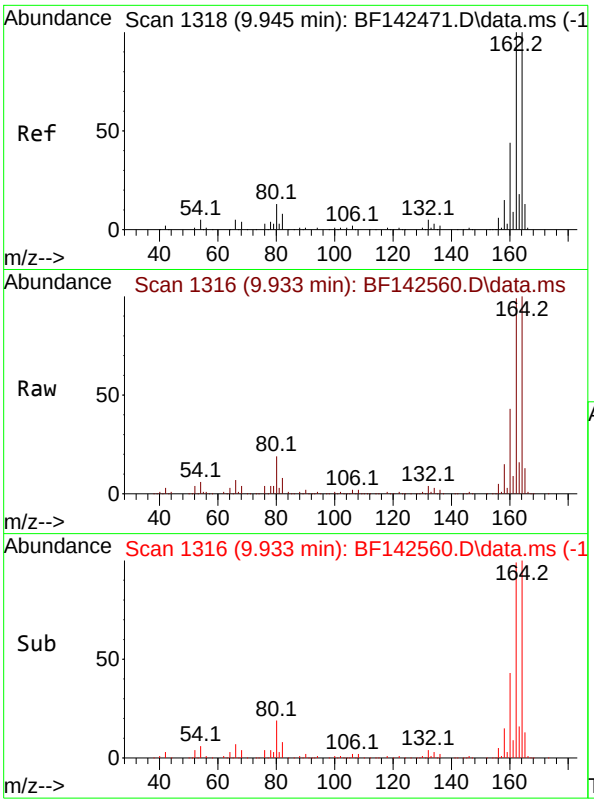




#38
1-Methylnaphthalene
Concen: 3.729 ng
RT: 8.992 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:142 Resp: 42312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.6 | 73.4 | 110.2 |



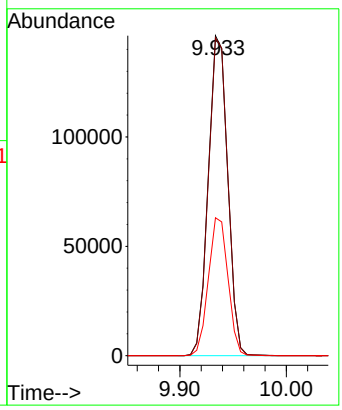


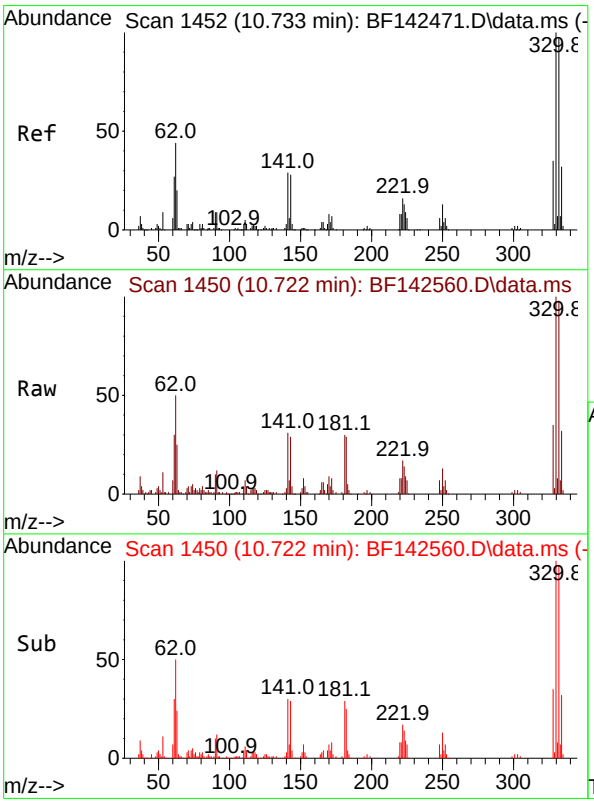

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:164 Resp: 185359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 99.3 | 80.2 | 120.4 |
| 160 | 43.1 | 35.6 | 53.4 |

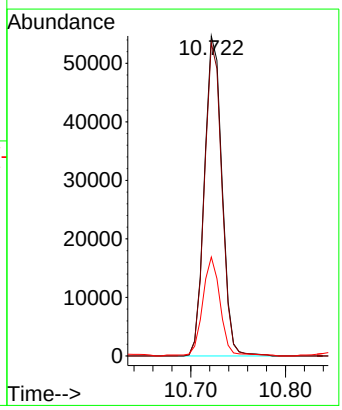


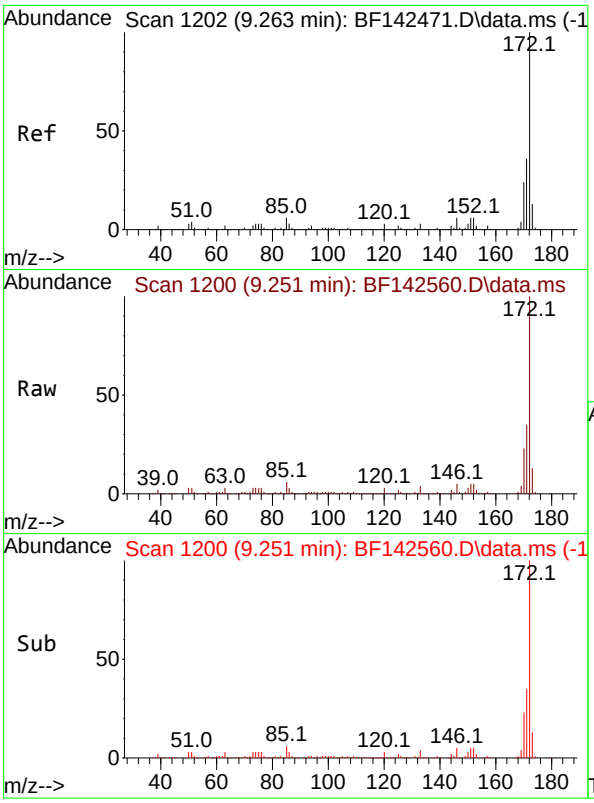




#42
2,4,6-Tribromophenol
Concen: 34.133 ng
RT: 10.722 min Scan# 1450
Delta R.T. -0.018 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:330 Resp: 70221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.1 | 77.6 | 116.4 |
| 141 | 31.4 | 24.6 | 36.8 |



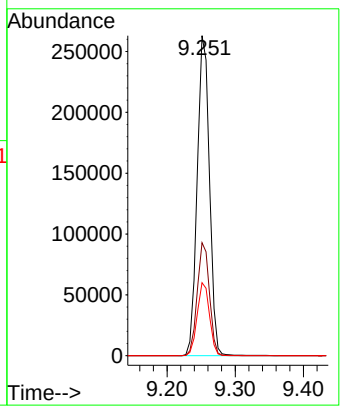


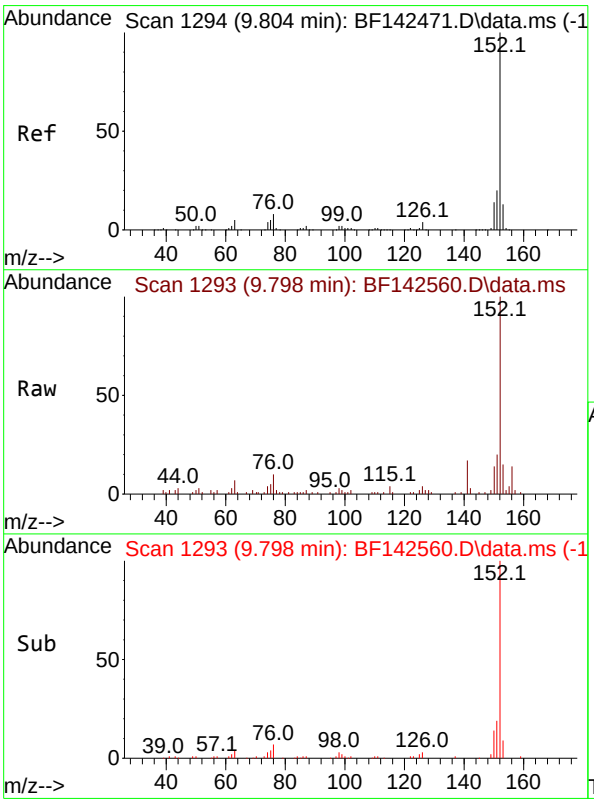

#45
2-Fluorobiphenyl
Concen: 23.830 ng
RT: 9.251 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:172 Resp: 329171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.3 | 28.6 | 42.8 |
| 170 | 22.8 | 18.9 | 28.3 |

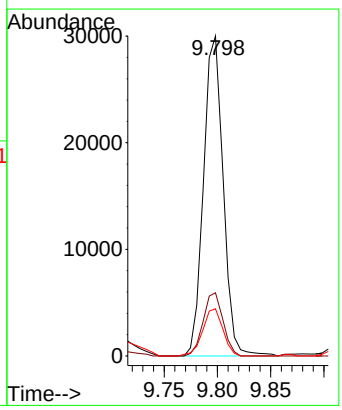


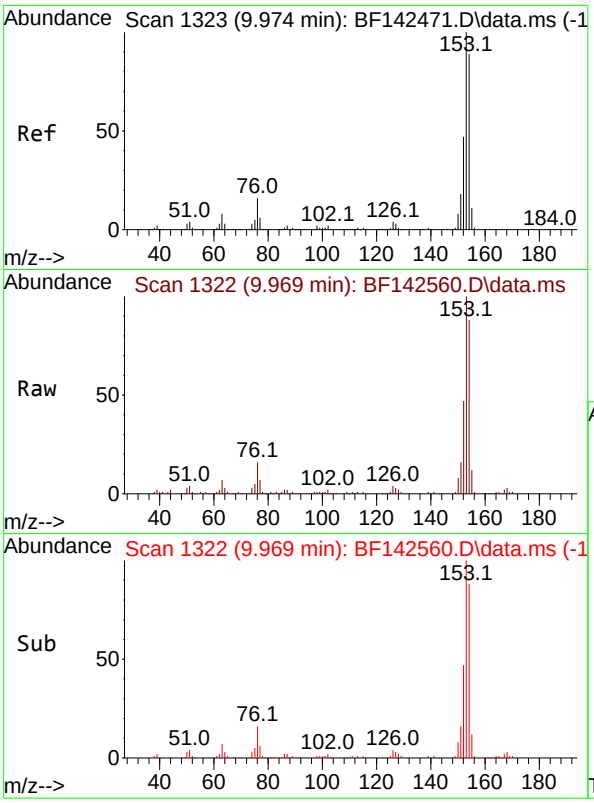




#49
Acenaphthylene
Concen: 2.150 ng
RT: 9.798 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:152 Resp: 38580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.8 | 15.8 | 23.8 |
| 153 | 14.7 | 10.6 | 15.8 |



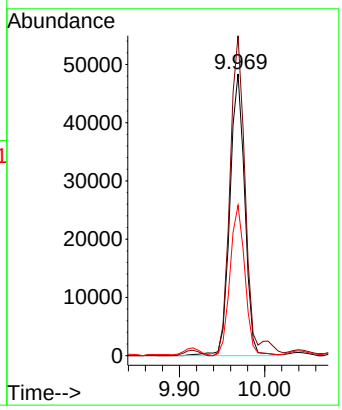


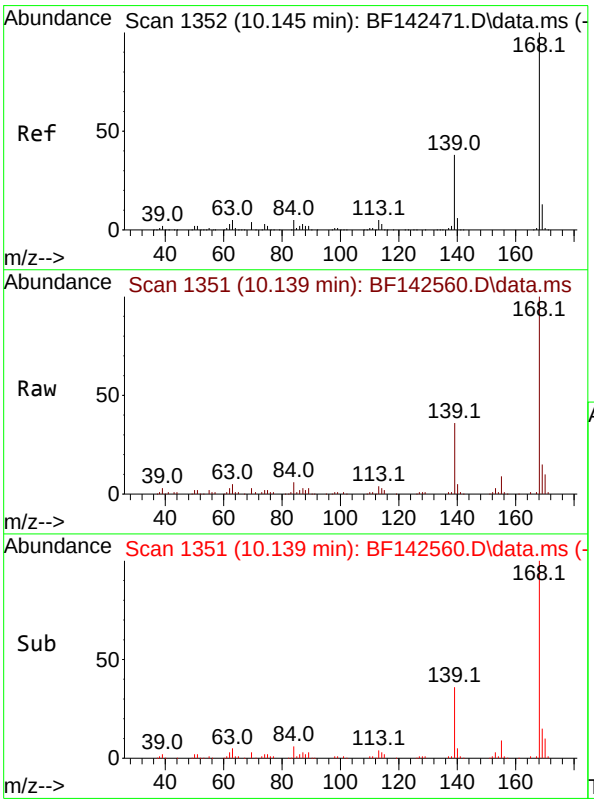

#52
Acenaphthene
Concen: 5.365 ng
RT: 9.969 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:154 Resp: 58770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 113.6 | 90.0 | 135.0 |
| 152 | 53.4 | 42.6 | 64.0 |

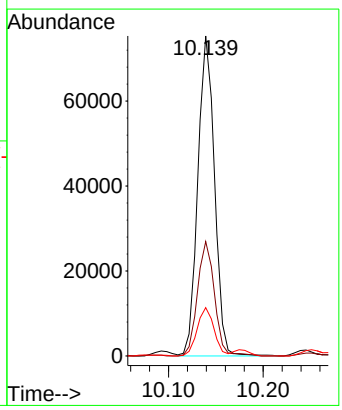


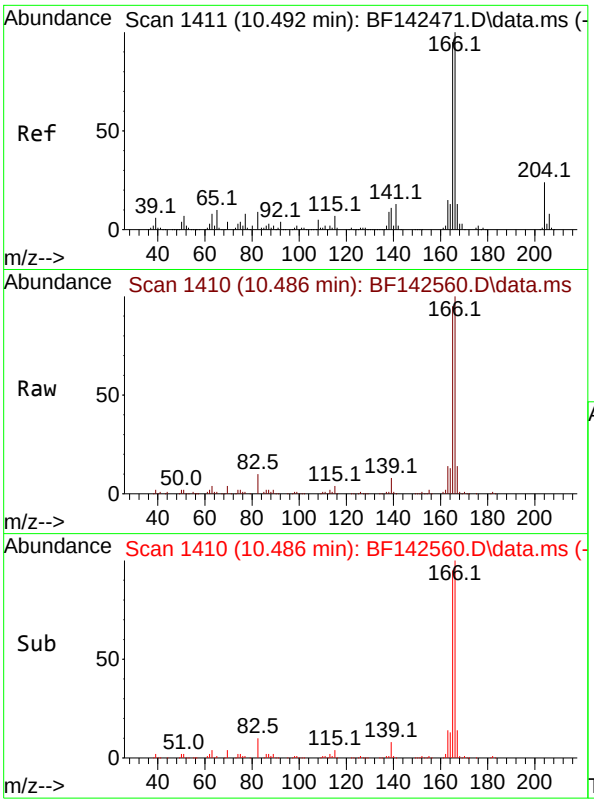




#55
Dibenzofuran
Concen: 5.846 ng
RT: 10.139 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:168 Resp: 92153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 35.7 | 30.2 | 45.2 |
| 169 | 15.1 | 10.7 | 16.1 |



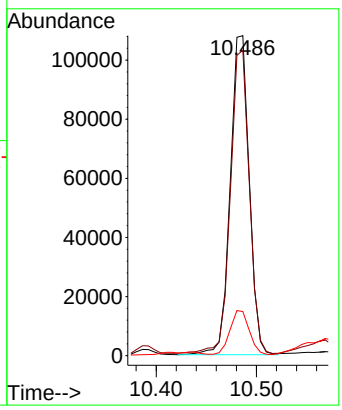


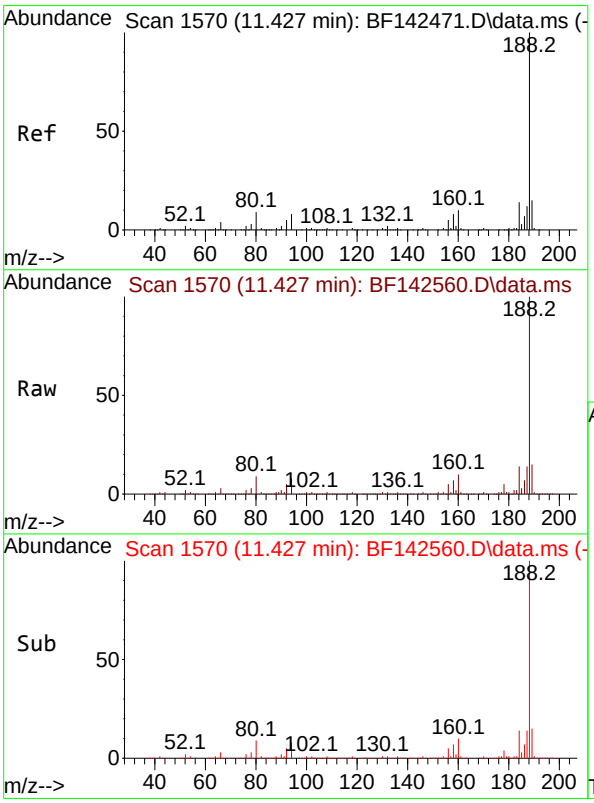

#58
Fluorene
Concen: 11.687 ng
RT: 10.486 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:166 Resp: 142338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 95.5 | 75.8 | 113.8 |
| 167 | 13.8 | 10.6 | 16.0 |

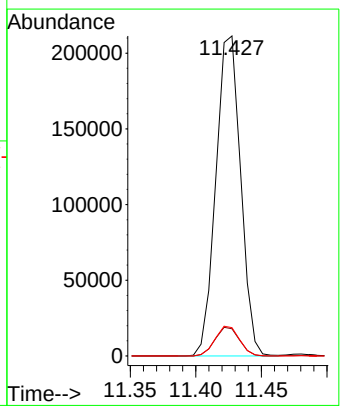


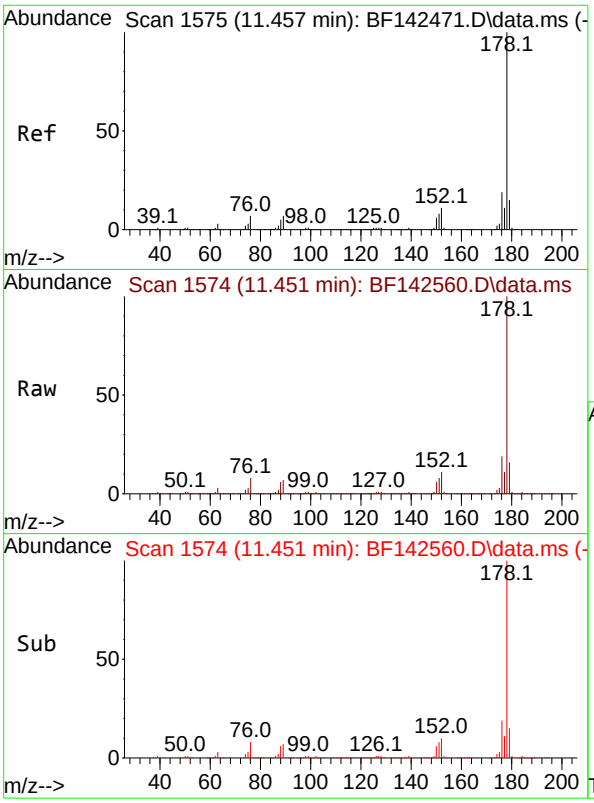




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:188 Resp: 277492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 8.5 | 6.6 | 10.0 |
| 80 | 8.9 | 7.4 | 11.0 |



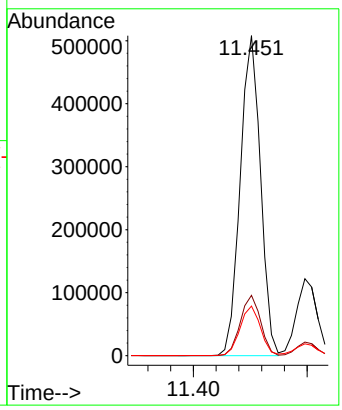


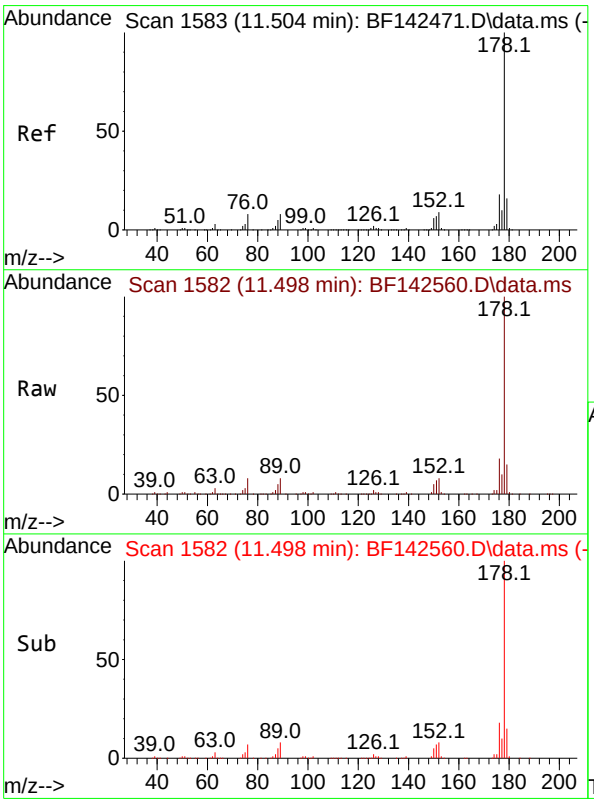

#71
Phenanthrene
Concen: 42.436 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:178 Resp: 629306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.4 | 23.0 |
| 179 | 15.5 | 12.3 | 18.5 |

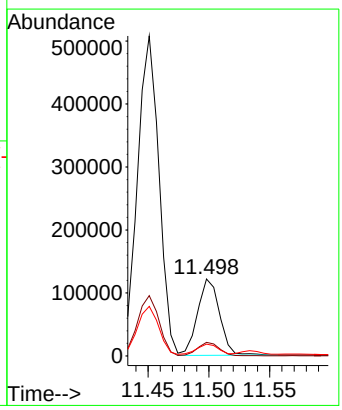


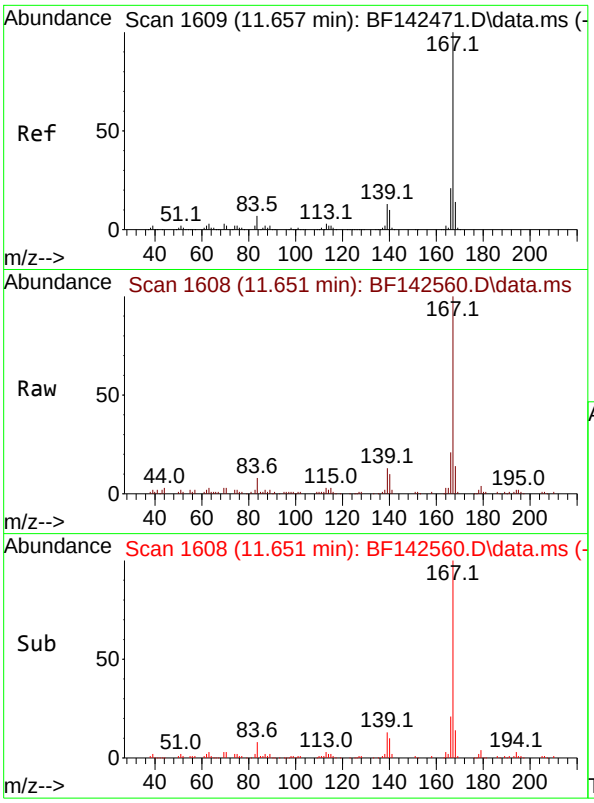




#72
Anthracene
Concen: 10.094 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:178 Resp: 152774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.6 | 14.6 | 21.8 |
| 179 | 15.4 | 12.4 | 18.6 |



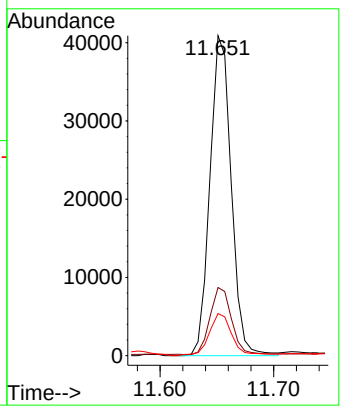


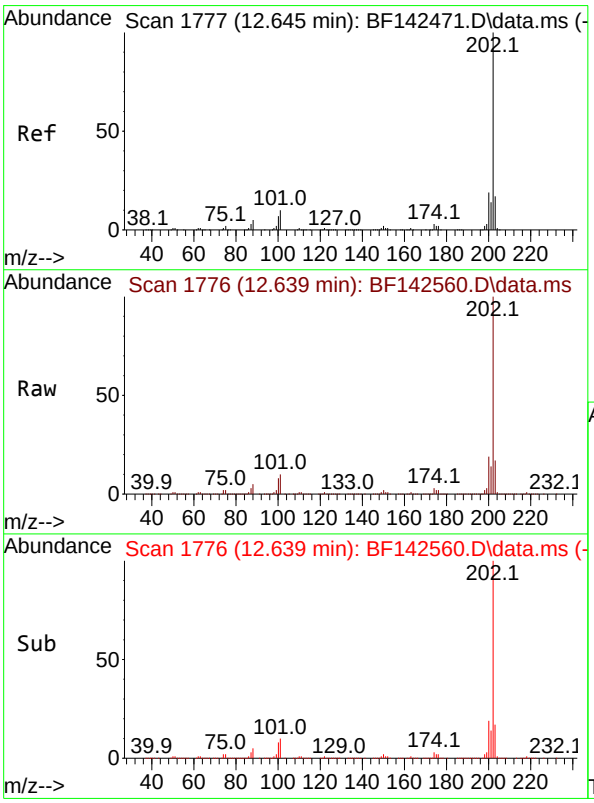

#73
Carbazole
Concen: 4.115 ng
RT: 11.651 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:167 Resp: 53247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.3 | 16.9 | 25.3 |
| 139 | 13.2 | 10.2 | 15.4 |

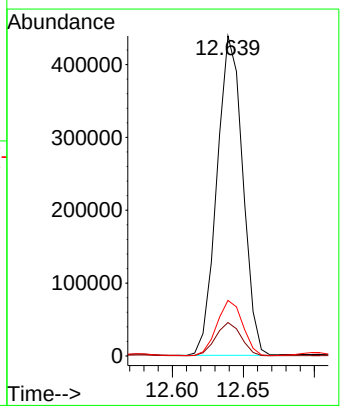


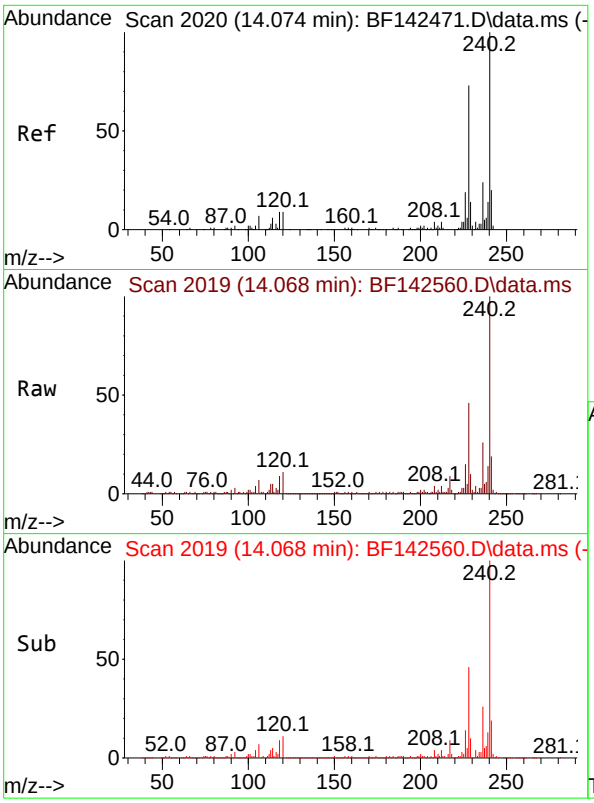




#75
Fluoranthene
Concen: 39.977 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:202 Resp: 553955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.4 | 0.0 | 29.6 |
| 203 | 17.4 | 0.0 | 37.2 |



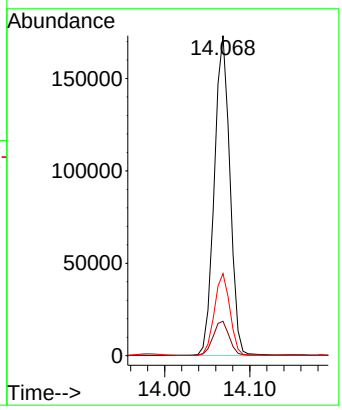


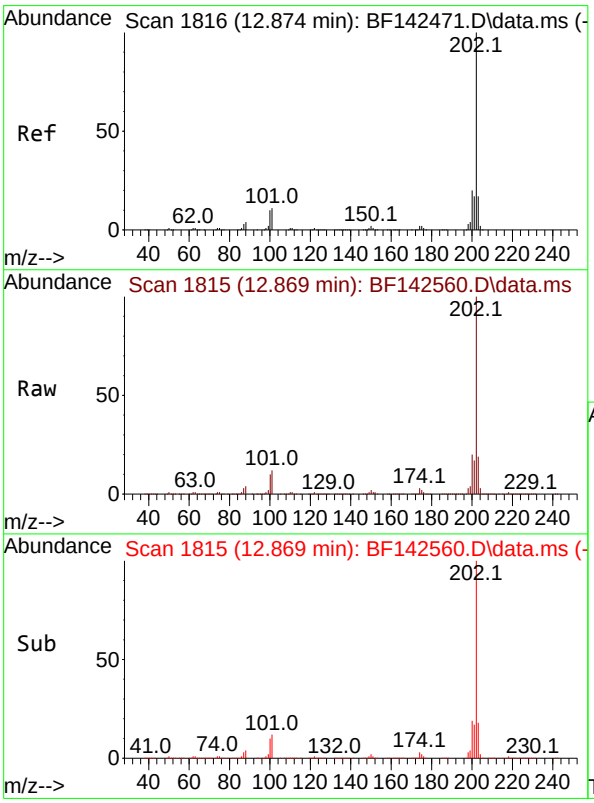

#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:240 Resp: 220989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.7 | 7.5 | 11.3 |
| 236 | 25.6 | 19.6 | 29.4 |

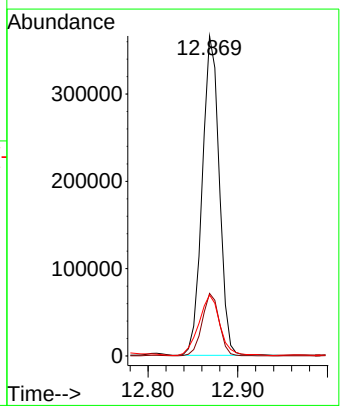


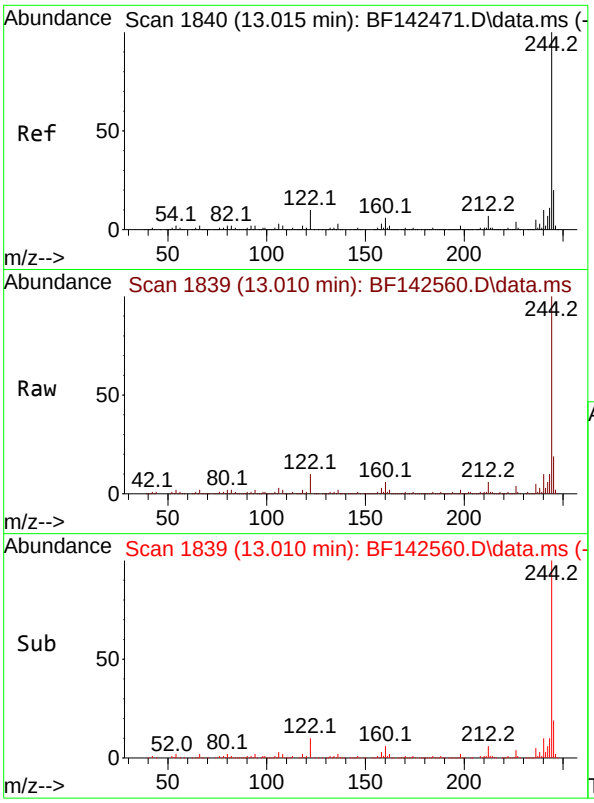




#78
Pyrene
Concen: 23.379 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:202 Resp: 481964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 19.5 | 16.1 | 24.1 |
| 203 | 19.1 | 13.9 | 20.9 |



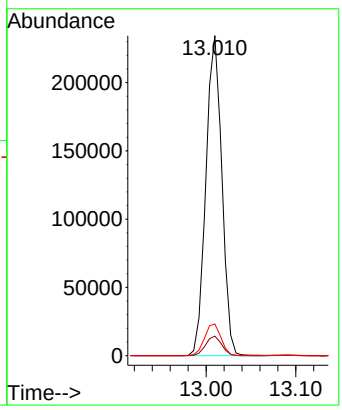


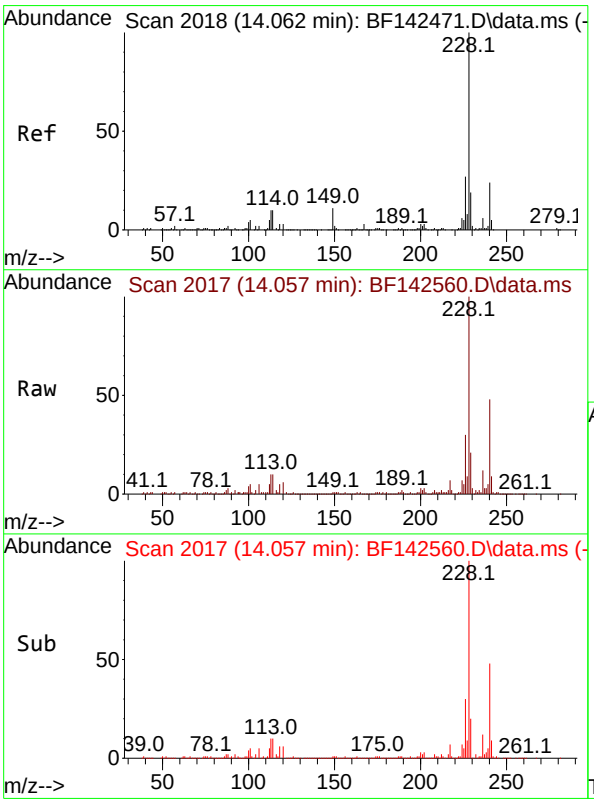

#79
Terphenyl-d14
Concen: 17.873 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:244 Resp: 289027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.1 | 5.3 | 7.9 |
| 122 | 9.9 | 8.2 | 12.2 |

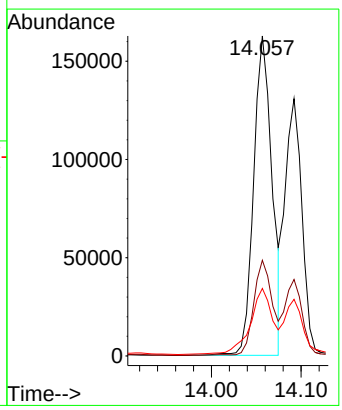


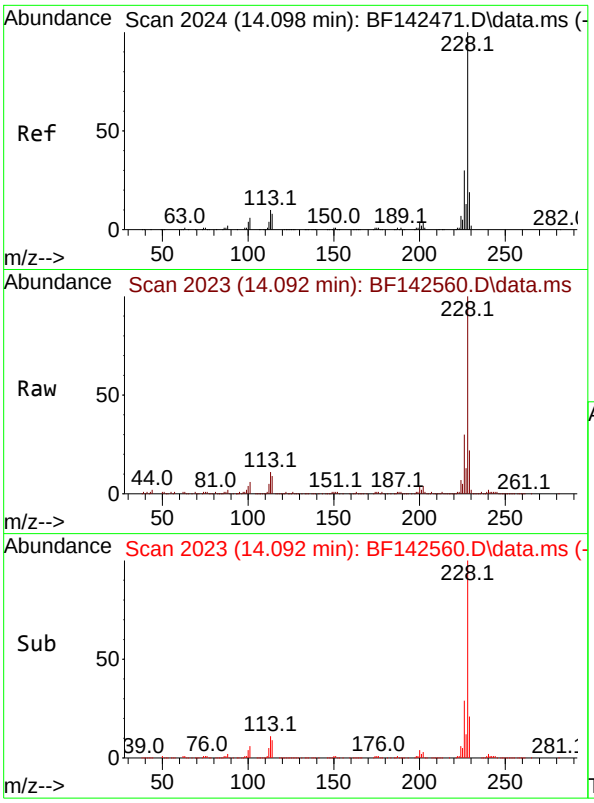




#81
Benzo(a)anthracene
Concen: 15.753 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:228 Resp: 232454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 21.2 | 31.8 |
| 229 | 21.1 | 15.5 | 23.3 |



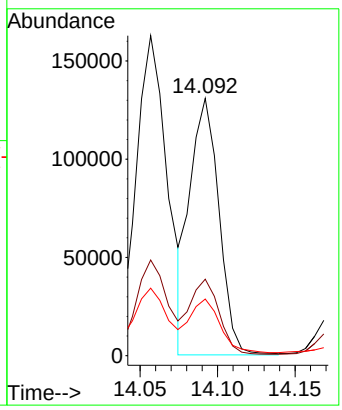


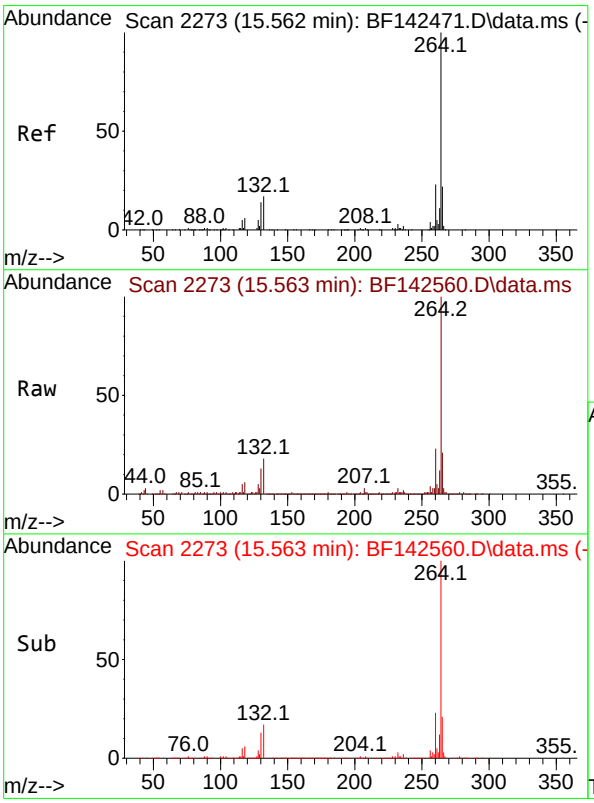

#83
Chrysene
Concen: 12.872 ng
RT: 14.092 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:228 Resp: 170682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.7 | 23.8 | 35.6 |
| 229 | 22.0 | 15.4 | 23.2 |

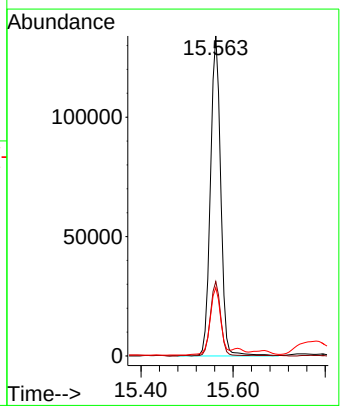


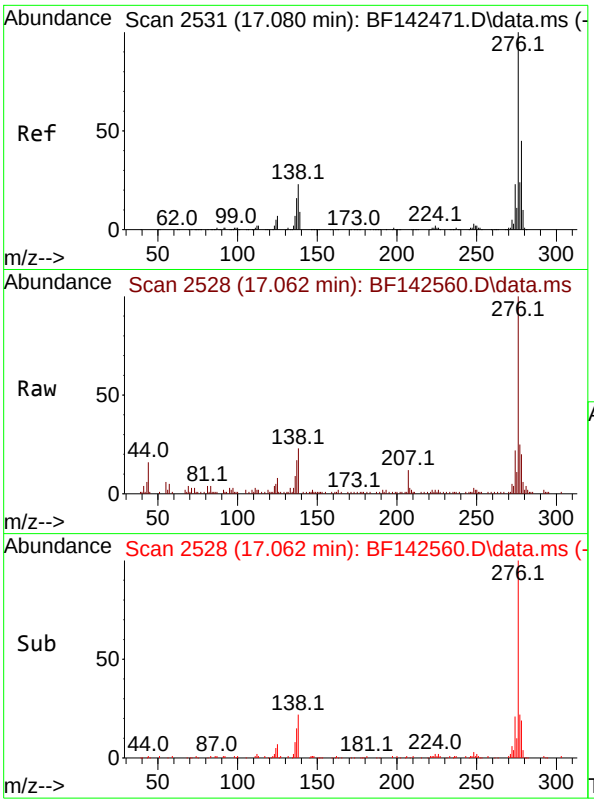




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:264 Resp: 208742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.3 | 18.6 | 28.0 |
| 265 | 21.3 | 17.7 | 26.5 |



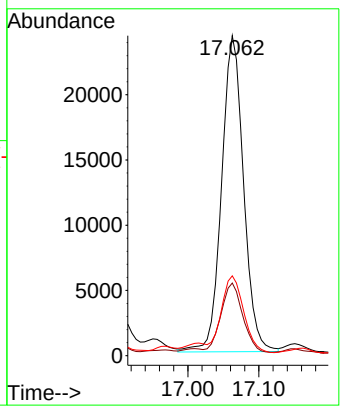


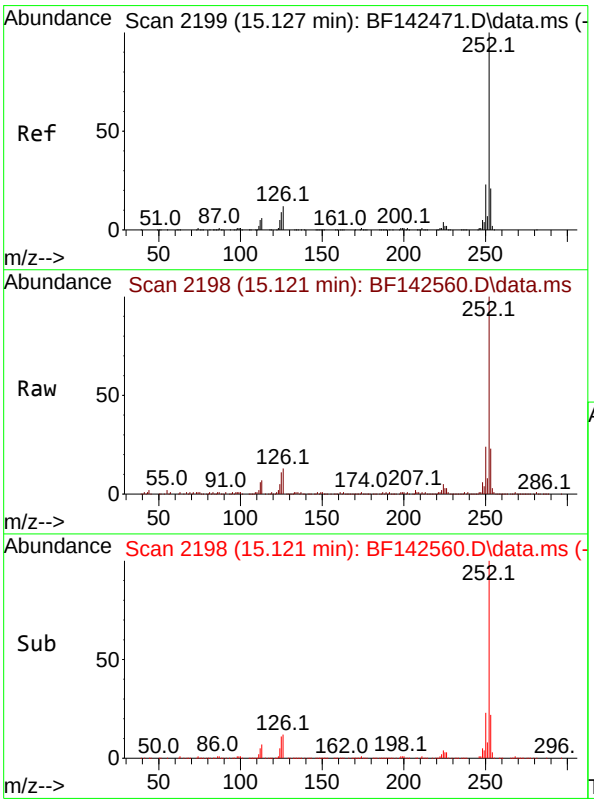

#87
Indeno(1,2,3-cd)pyrene
Concen: 3.326 ng
RT: 17.062 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:276 Resp: 52116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 21.9 | 19.9 | 29.9 |
| 277 | 24.5 | 20.2 | 30.2 |

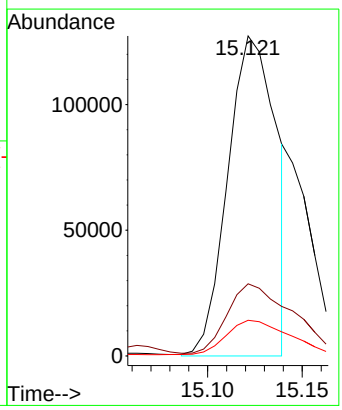


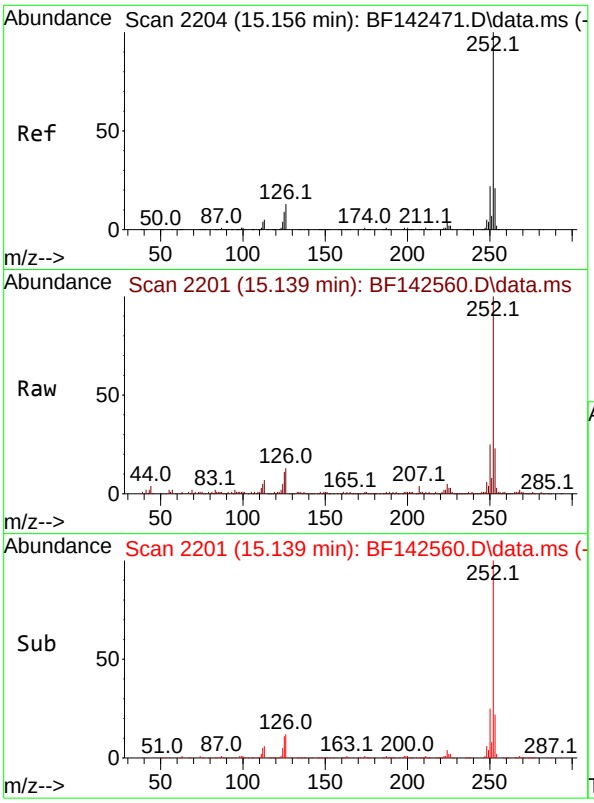




#88
Benzo(b)fluoranthene
Concen: 18.366 ng m
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:252 Resp: 226896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 17.0 | 25.4 |
| 125 | 11.1 | 7.4 | 11.0# |



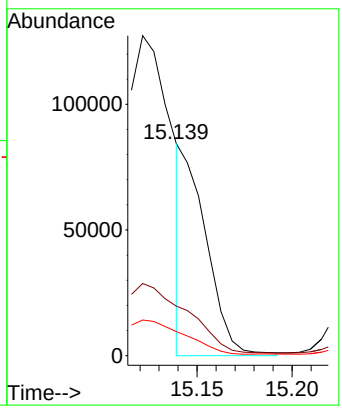


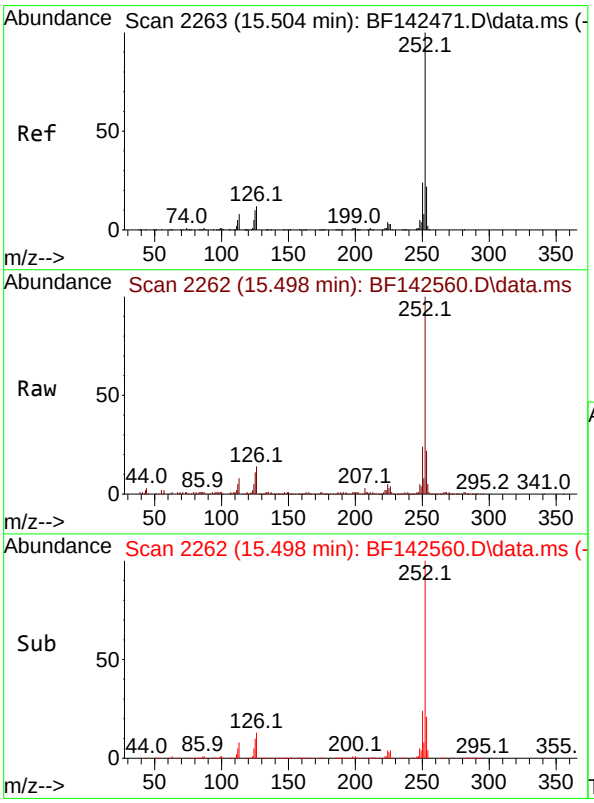

#89
Benzo(k)fluoranthene
Concen: 6.401 ng m
RT: 15.139 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:252 Resp: 74066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.4 | 17.0 | 25.4 |
| 125 | 11.4 | 7.3 | 10.9# |

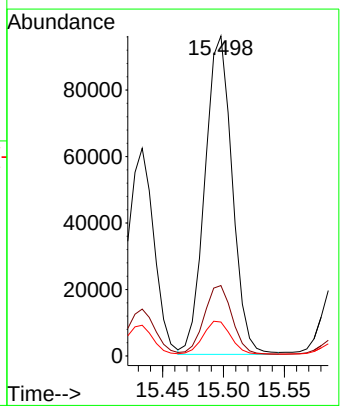


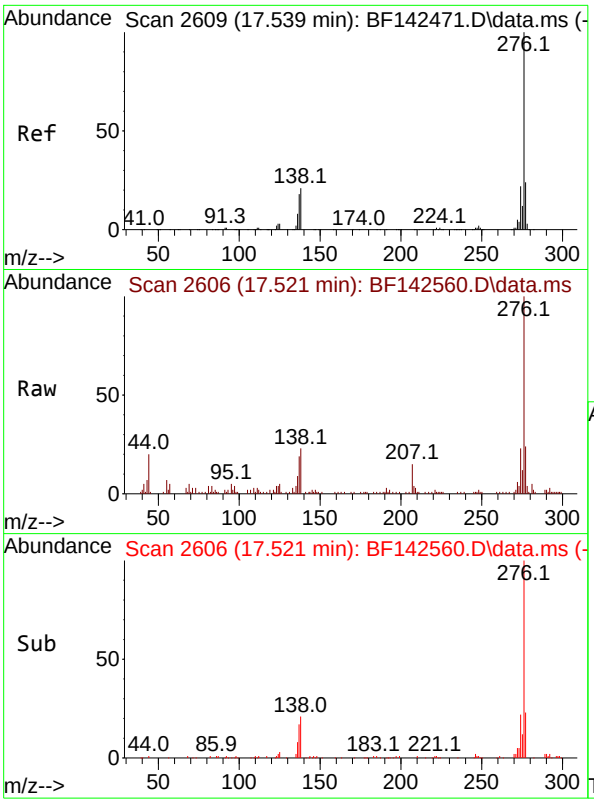




#90
Benzo(a)pyrene
Concen: 12.830 ng
RT: 15.498 min Scan# 2262
Delta R.T. -0.012 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

Tgt Ion:252 Resp: 149408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 17.4 | 26.0 |
| 125 | 10.6 | 7.9 | 11.9 |






#92
Benzo(g,h,i)perylene
Concen: 3.606 ng
RT: 17.521 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF142560.D
Acq: 27 May 2025 14:26

**Instrument :**
BNA_F
**ClientSampleId :**
TP-02-MHFDL

Tgt Ion:276 Resp: 45848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.5 | 19.2 | 28.8 |
| 138 | 23.4 | 16.8 | 25.2 |