

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093019\  
 Data File : BF117274.D  
 Acq On : 30 Sep 2019 21:21  
 Operator : JU  
 Sample : K4668-16 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-092619

Manual Integrations  
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 10/2/2019 8:32:47 AM

Quant Time: Oct 01 02:24:35 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 13 16:23:17 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.81  | 152  | 25231    | 20.00  | ng    | -0.01     |
| 21) Naphthalene-d8          | 8.09  | 136  | 93452    | 20.00  | ng    | -0.01     |
| 39) Acenaphthene-d10        | 9.84  | 164  | 40240    | 20.00  | ng    | -0.02     |
| 64) Phenanthrene-d10        | 11.33 | 188  | 64802    | 20.00  | ng    | 0.00      |
| 76) Chrysene-d12            | 13.97 | 240  | 68538    | 20.00  | ng    | 0.00      |
| 87) Perylene-d12            | 15.43 | 264  | 60230    | 20.00  | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.43  | 112  | 74177    | 45.90  | ng    | 0.00      |
| 7) Phenol-d6                | 6.45  | 99   | 98733    | 47.27  | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 56087    | 31.53  | ng    | -0.01     |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 15038    | 44.71  | ng    | -0.01     |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 95688    | 37.18  | ng    | -0.01     |
| 79) Terphenyl-d14           | 12.91 | 244  | 99883    | 27.24  | ng    | 0.00      |
| Target Compounds            |       |      |          |        |       |           |
| 49) Acenaphthylene          | 9.70  | 152  | 12558    | 3.365  | ng    | Qvalue 94 |
| 50) Dimethylphthalate       | 9.56  | 163  | 9162     | 3.216  | ng    | # 98      |
| 71) Phenanthrene            | 11.35 | 178  | 33279    | 9.041  | ng    | 98        |
| 72) Anthracene              | 11.41 | 178  | 16414m   | 4.368  | ng    |           |
| 75) Fluoranthene            | 12.55 | 202  | 122871   | 32.489 | ng    | 97        |
| 78) Pyrene                  | 12.77 | 202  | 123625   | 21.497 | ng    | 98        |
| 81) Benzo(a)anthracene      | 13.96 | 228  | 79076    | 17.269 | ng    | 99        |
| 83) Chrysene                | 14.00 | 228  | 68401    | 15.316 | ng    | 98        |
| 86) Indeno(1,2,3-cd)pyrene  | 16.88 | 276  | 27553    | 8.456  | ng    | 97        |
| 88) Benzo(b)fluoranthene    | 15.01 | 252  | 78166m   | 21.425 | ng    |           |
| 89) Benzo(k)fluoranthene    | 15.03 | 252  | 31395m   | 9.084  | ng    |           |
| 90) Benzo(a)pyrene          | 15.37 | 252  | 53403    | 16.681 | ng    | 98        |
| 91) Dibenzo(a,h)anthracene  | 16.87 | 278  | 8763     | 3.436  | ng    | # 90      |
| 92) Benzo(g,h,i)perylene    | 17.32 | 276  | 22887    | 9.005  | ng    | 95        |

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

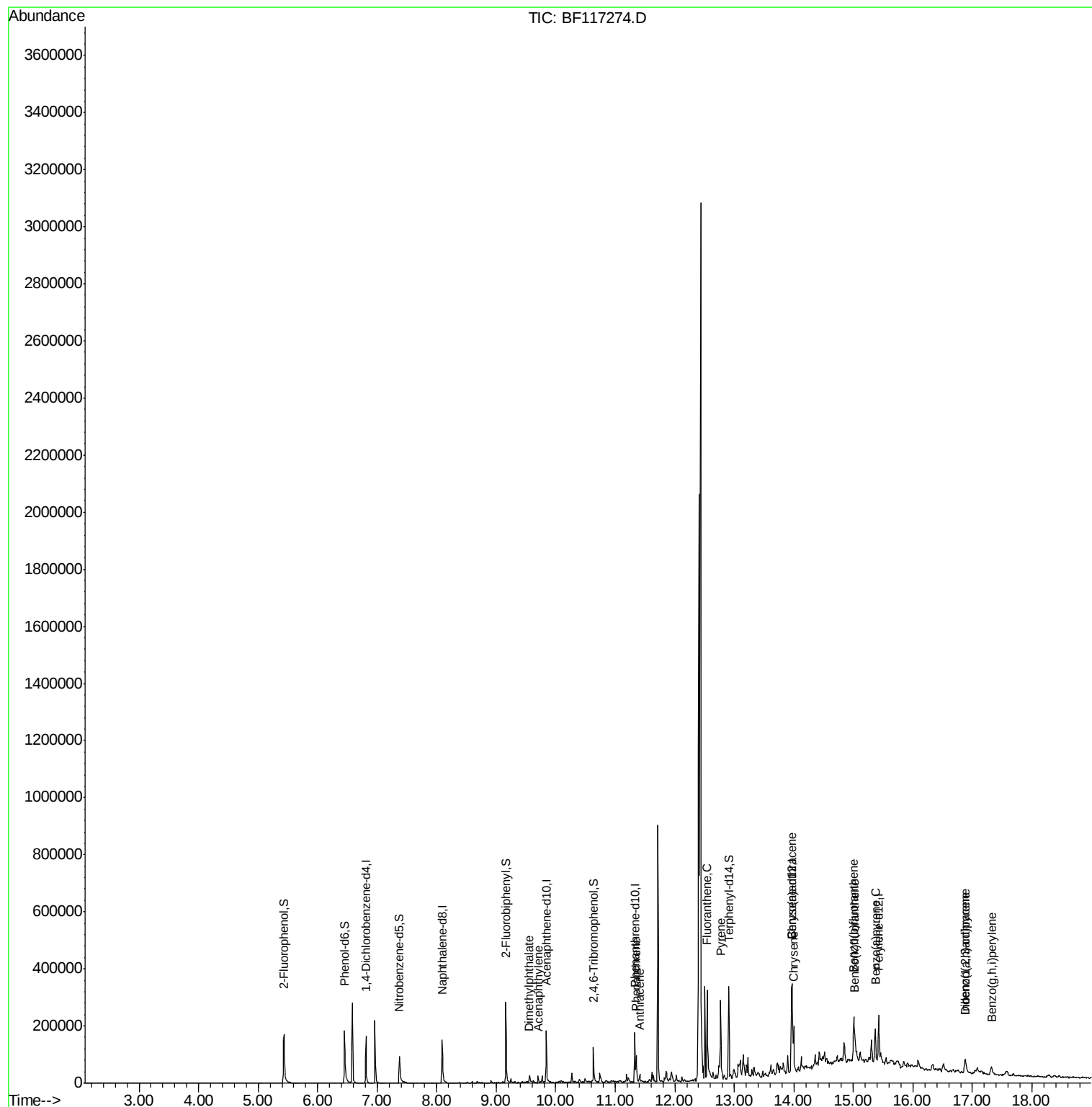
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093019\  
Data File : BF117274.D  
Acq On : 30 Sep 2019 21:21  
Operator : JU  
Sample : K4668-16 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

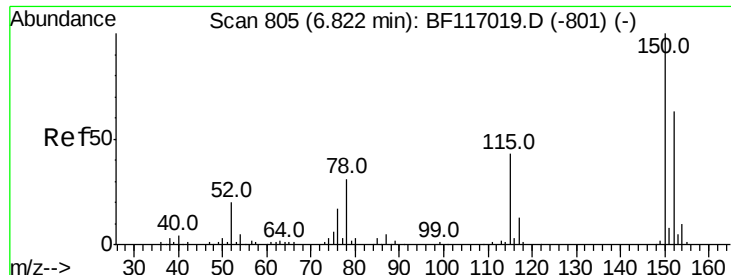
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-092619

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Quant Time: Oct 01 02:24:35 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 13 16:23:17 2019  
Response via : Initial Calibration





#1

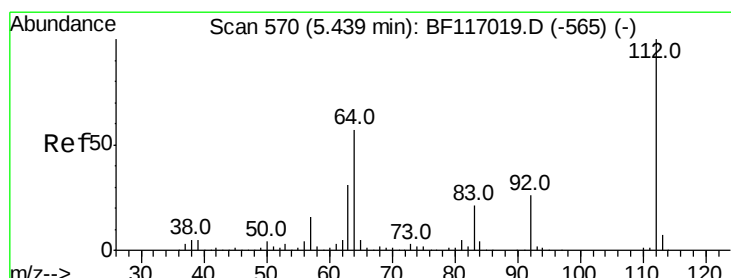
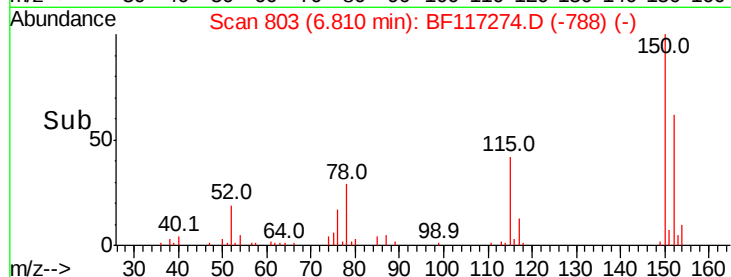
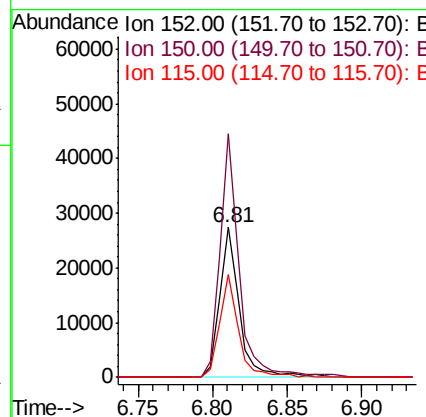
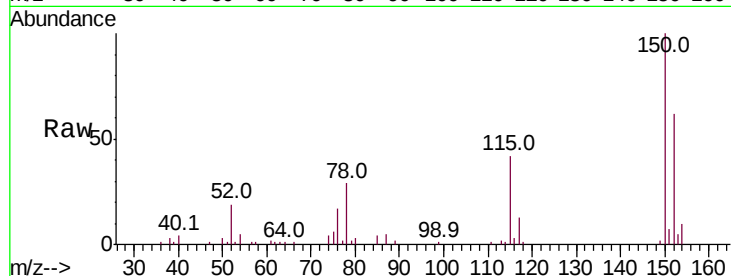
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.81 min Scan# 803  
Delta R.T. -0.01 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-092619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.5 | 127.5 | 191.3 |
| 115     | 68.5  | 55.0  | 82.4  |

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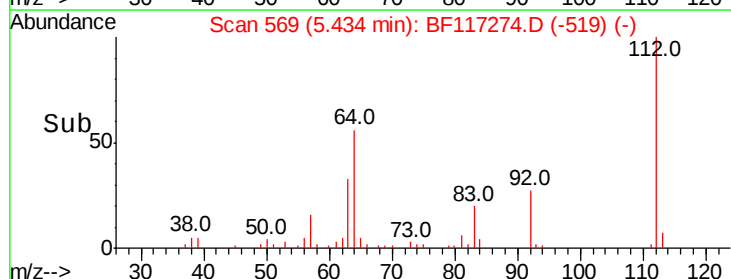
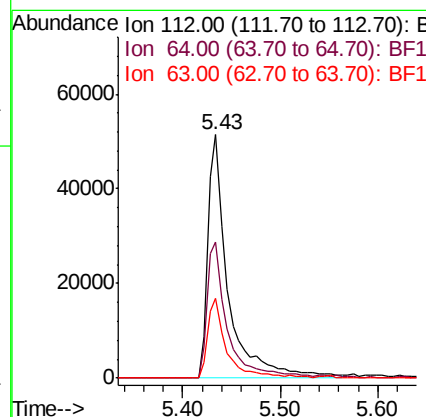
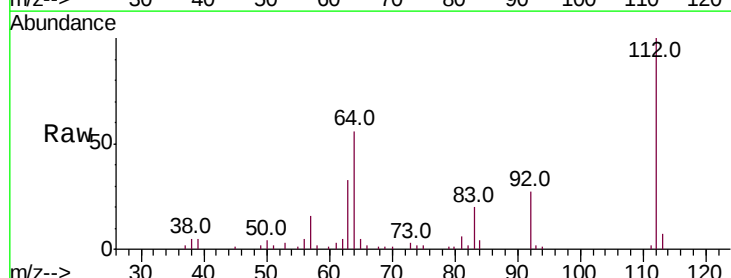
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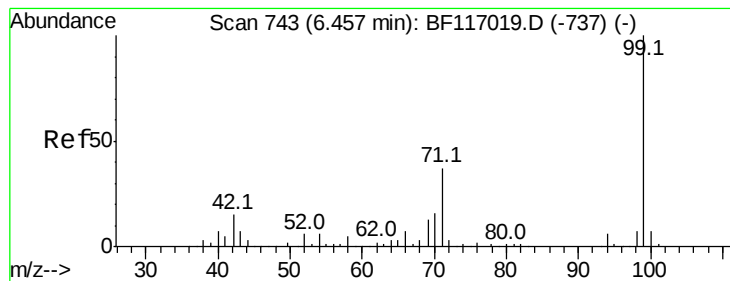


#5

2-Fluorophenol  
Concen: 45.899 ng  
RT: 5.43 min Scan# 569  
Delta R.T. -0.01 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.7  | 45.7  | 68.5  |
| 63      | 32.7  | 24.9  | 37.3  |





#7

Phenol-d6

Concen: 47.273 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

Instrument :

BNA\_F

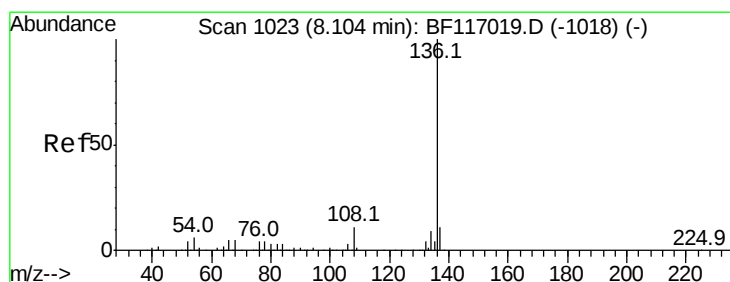
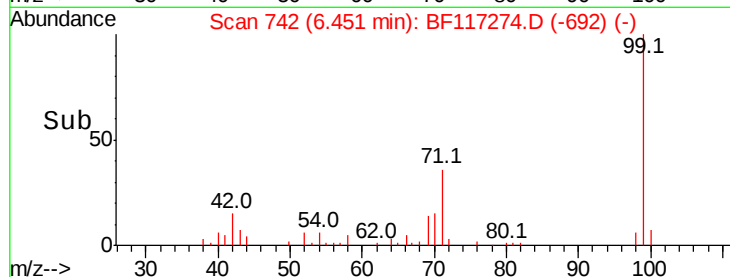
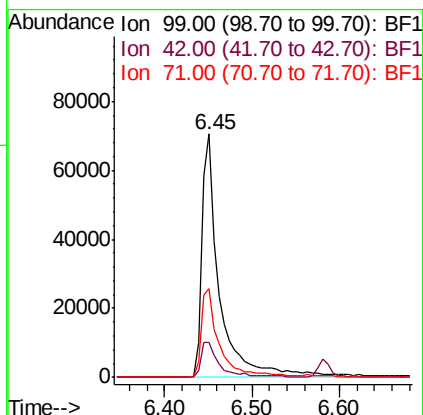
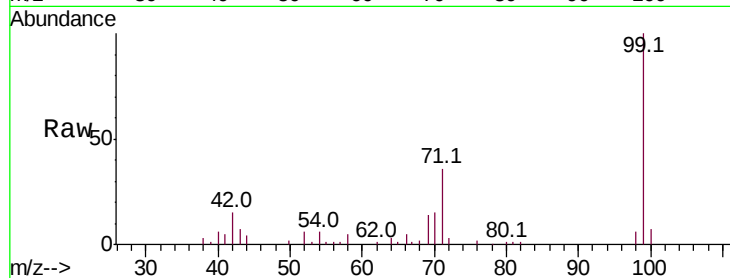
ClientSampleId :

SU-04-092619

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 98733 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 14.6  | 12.2  | 18.2  |
| 71       | 36.4  | 29.8  | 44.8  |

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#21

Naphthalene-d8

Concen: 20.000 ng

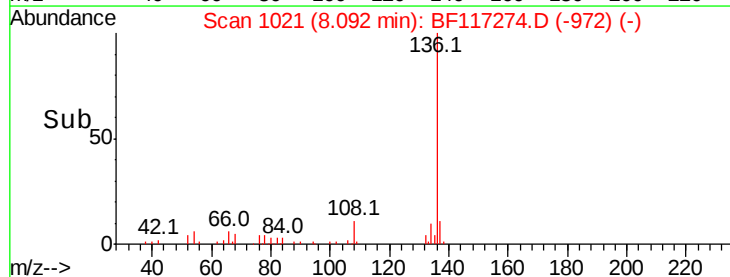
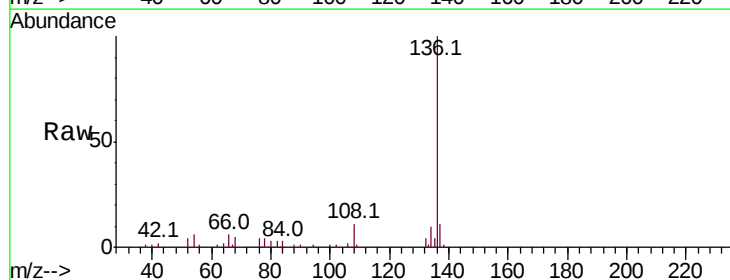
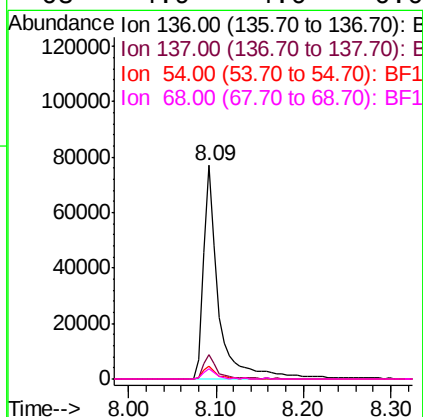
RT: 8.09 min Scan# 1021

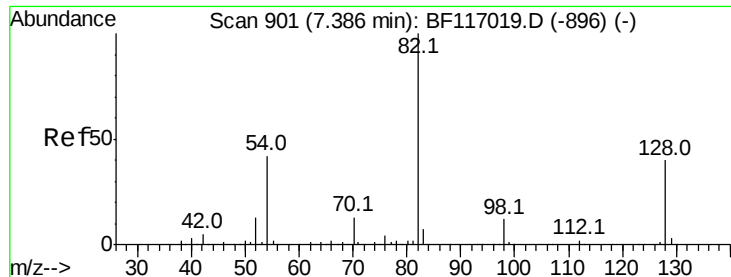
Delta R.T. -0.01 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 93452 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.2  | 9.0   | 13.4  |
| 54       | 6.0   | 4.5   | 6.7   |
| 68       | 4.9   | 4.0   | 6.0   |





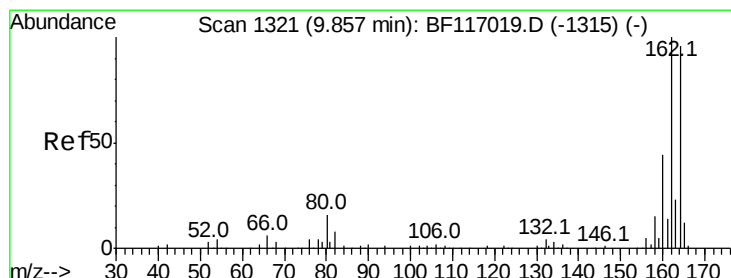
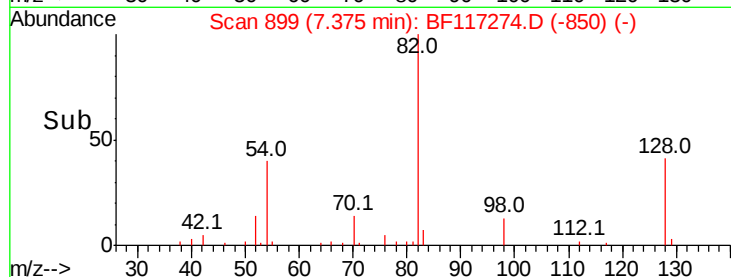
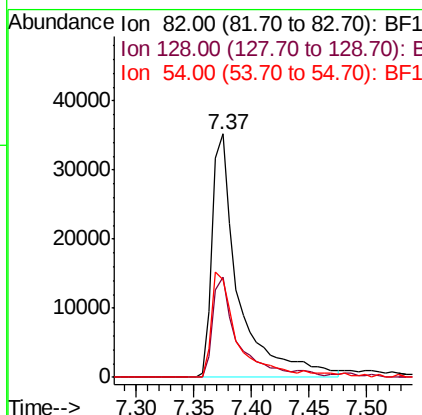
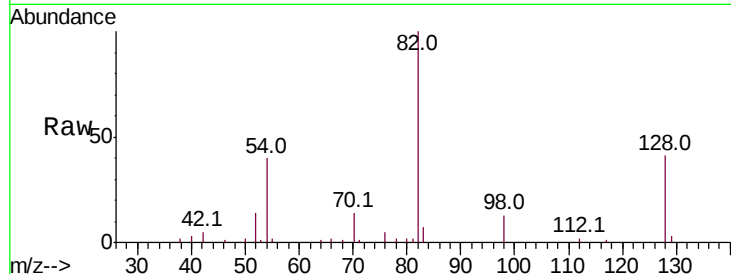
#23  
 Nitrobenzene-d5  
 Concen: 31.534 ng  
 RT: 7.37 min Scan# 899  
 Delta R.T. -0.01 min  
 Lab File: BF117274.D  
 Acq: 30 Sep 2019 21:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-092619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.0  | 32.3  | 48.5  |
| 54      | 39.9  | 33.3  | 49.9  |

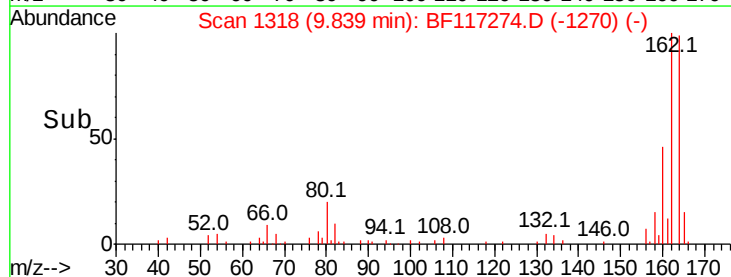
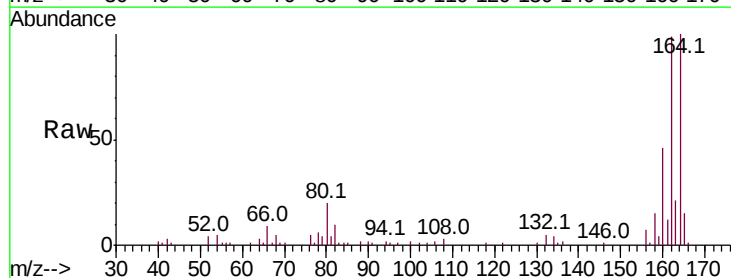
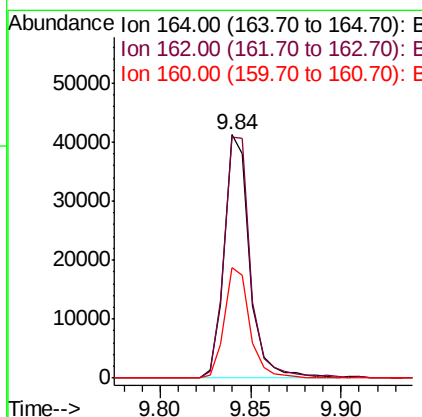
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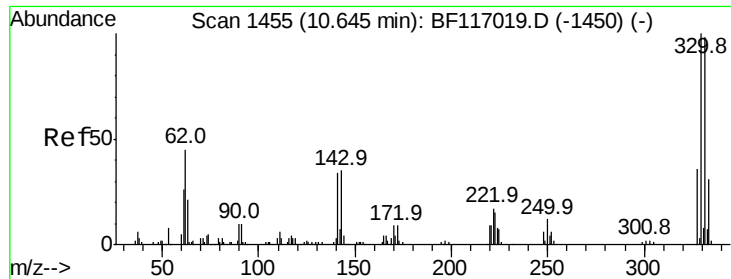
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. -0.02 min  
 Lab File: BF117274.D  
 Acq: 30 Sep 2019 21:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.8  | 83.4  | 125.2 |
| 160     | 45.5  | 36.4  | 54.6  |





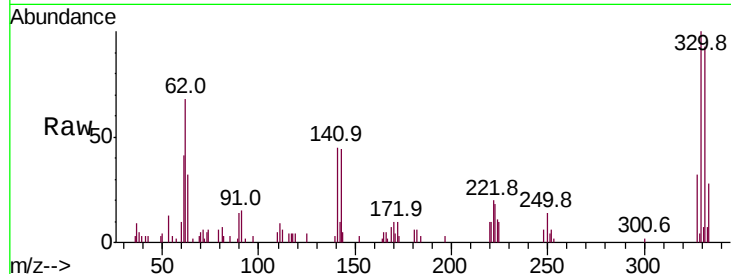
#42  
 2,4,6-Tribromophenol  
 Concen: 44.714 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.01 min  
 Lab File: BF117274.D  
 Acq: 30 Sep 2019 21:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-092619

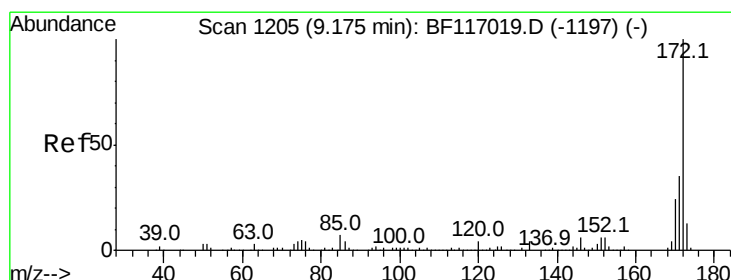
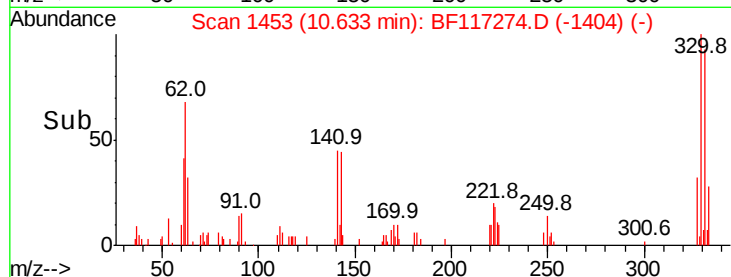
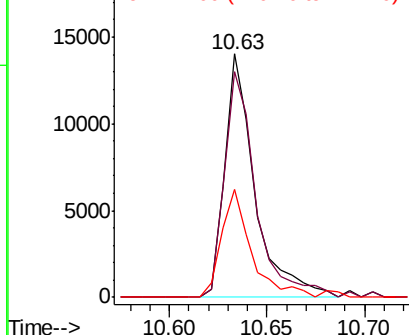
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.5  | 78.0 | 117.0 |       |
| 141     | 44.1  | 35.8 | 53.6  |       |

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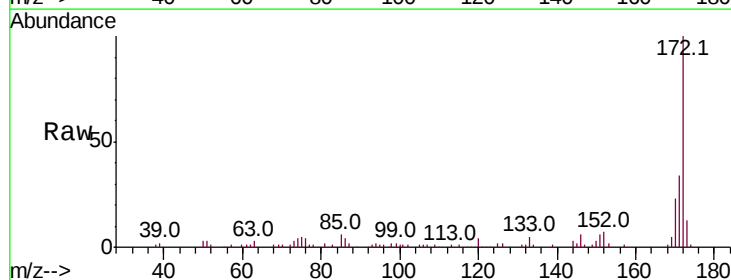


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

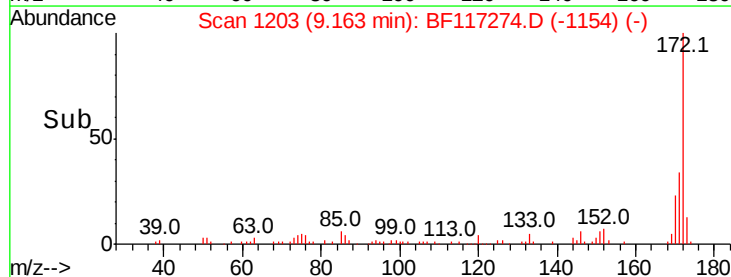
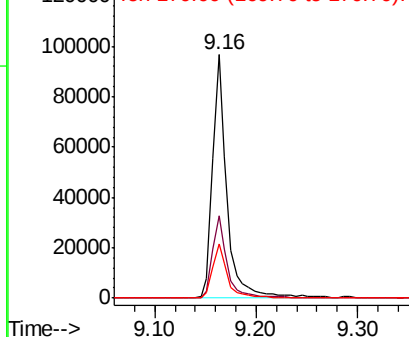


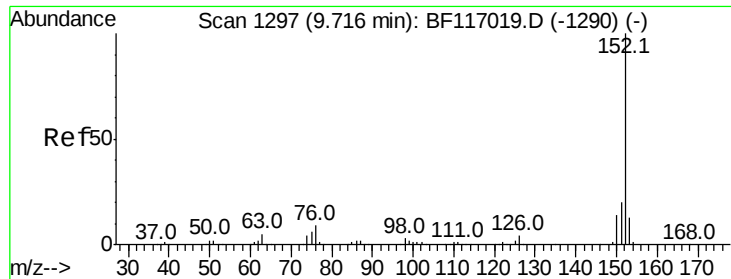
#45  
 2-Fluorobiphenyl  
 Concen: 37.181 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. -0.01 min  
 Lab File: BF117274.D  
 Acq: 30 Sep 2019 21:21

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 33.9  | 28.2 | 42.2  |       |
| 170     | 22.5  | 18.9 | 28.3  |       |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





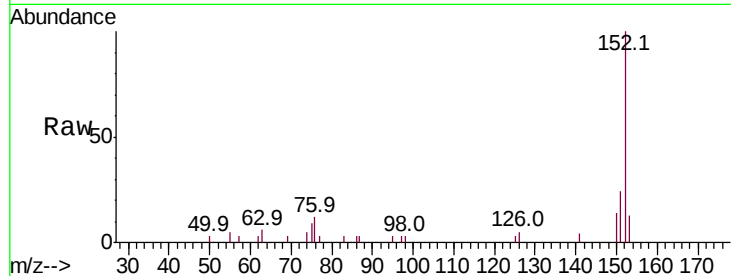
#49  
Acenaphthylene  
Concen: 3.365 ng  
RT: 9.70 min Scan# 1295  
Delta R.T. -0.01 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-092619

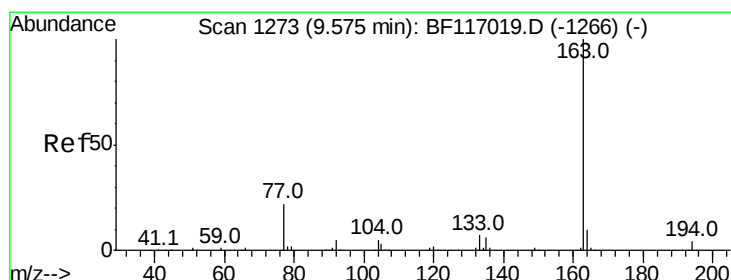
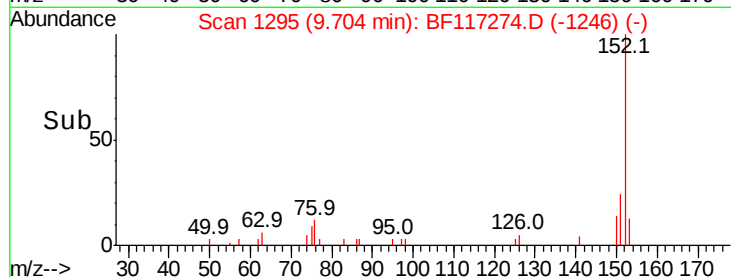
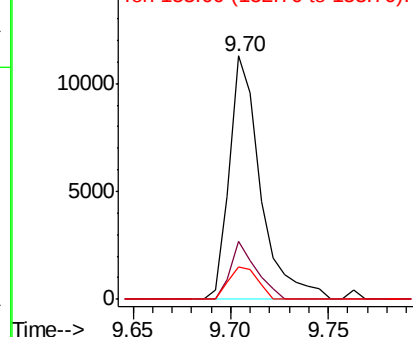
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 23.9  | 16.2  | 24.2  |
| 153     | 13.5  | 10.2  | 15.4  |

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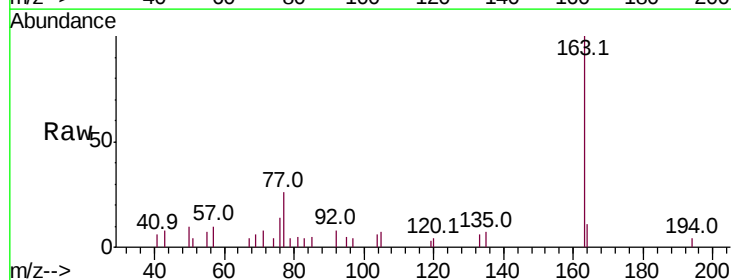


Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E

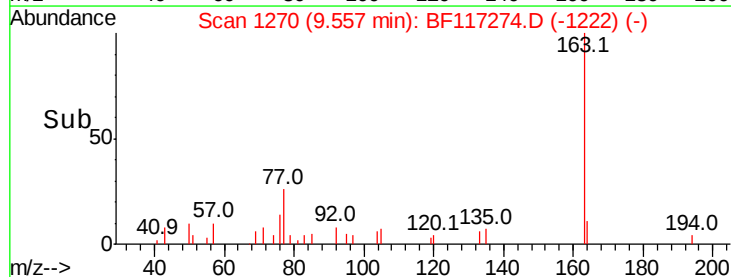
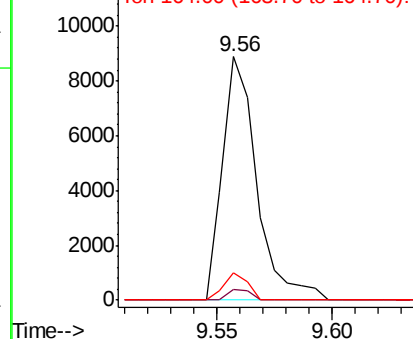


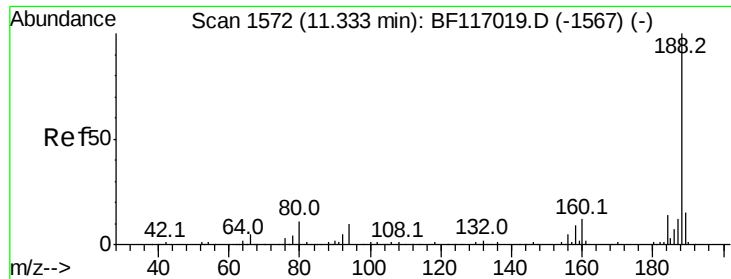
#50  
Dimethylphthalate  
Concen: 3.216 ng  
RT: 9.56 min Scan# 1270  
Delta R.T. -0.02 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.5   | 2.9   | 4.3#  |
| 164     | 11.1  | 8.2   | 12.4  |



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





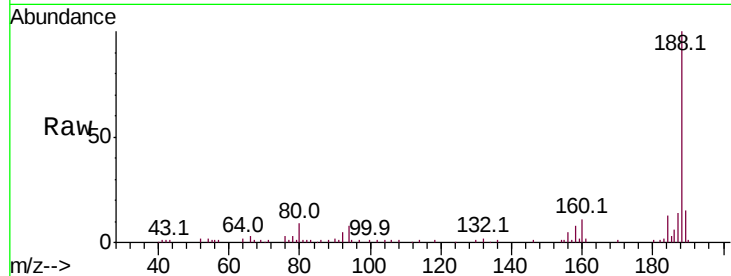
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1571  
Delta R.T. -0.01 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-092619

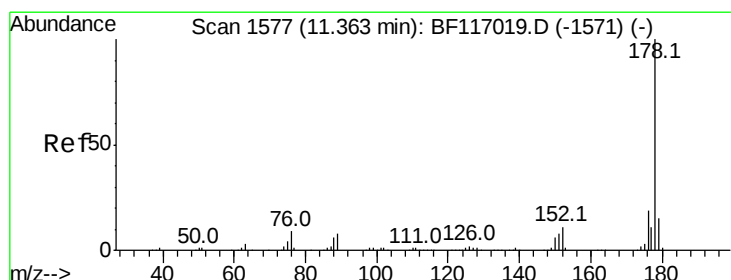
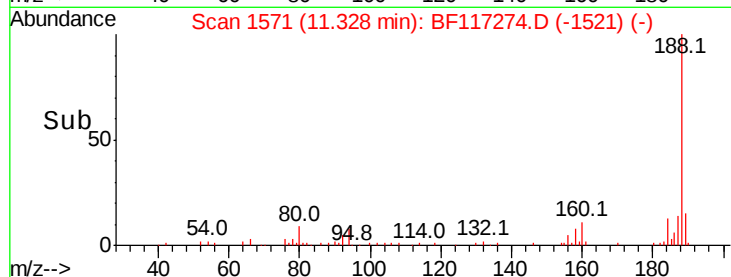
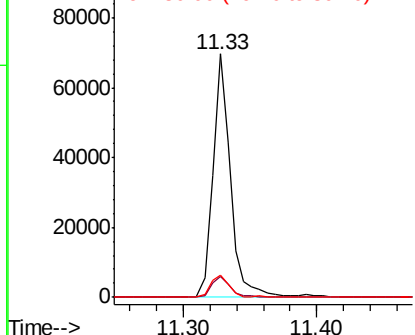
| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 188     | 100   | 64802 |       |       |
| 94      | 8.5   |       | 8.2   | 12.2  |
| 80      | 9.2   |       | 9.0   | 13.6  |

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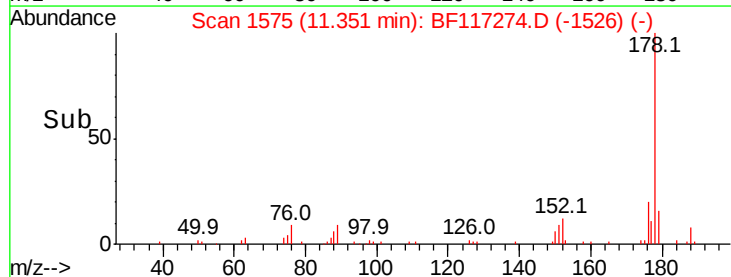
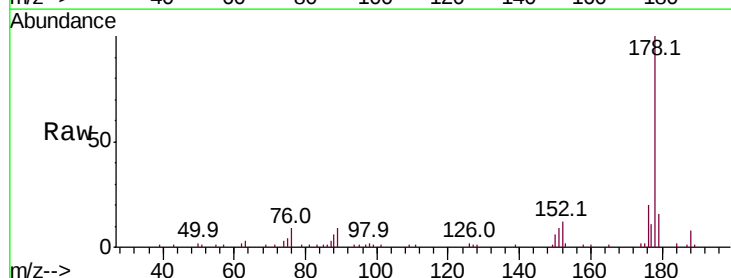
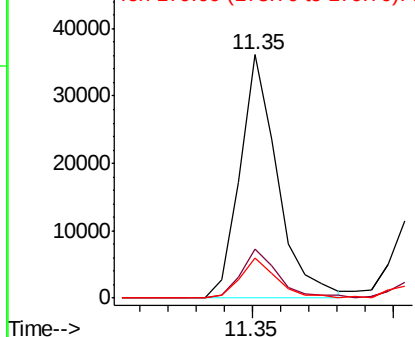
Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

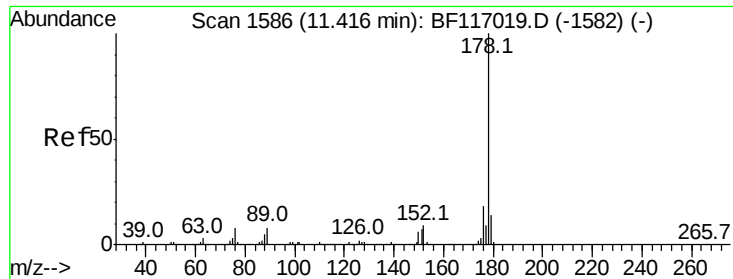


#71  
Phenanthrene  
Concen: 9.041 ng  
RT: 11.35 min Scan# 1575  
Delta R.T. -0.01 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 33279 |       |       |
| 176     | 20.4  |       | 15.4  | 23.2  |
| 179     | 16.5  |       | 12.4  | 18.6  |

Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 4.368 ng/mL

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

Instrument :

BNA\_F

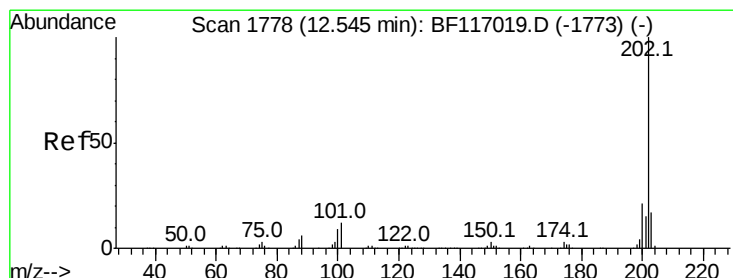
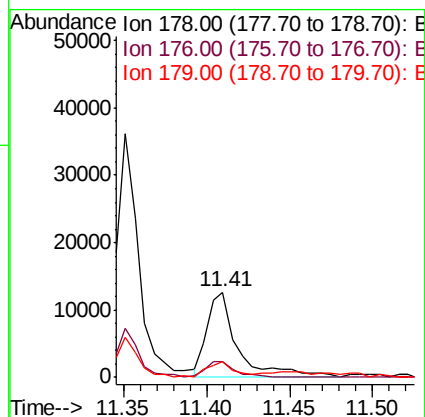
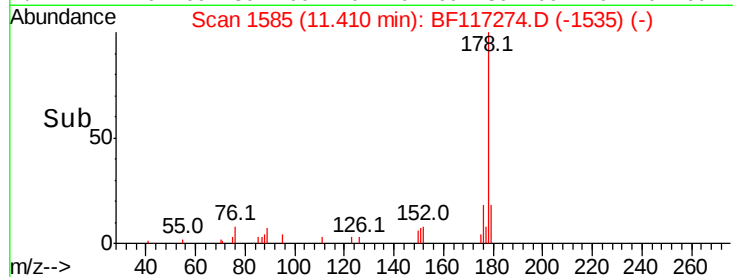
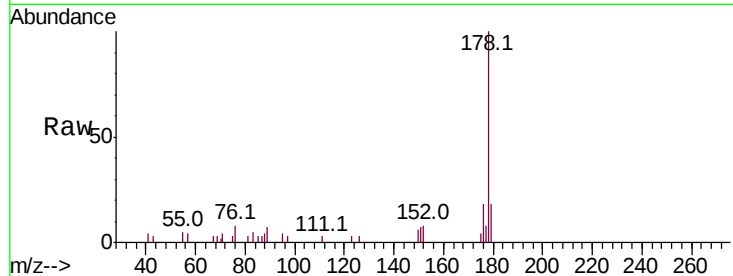
ClientSampleId :

SU-04-092619

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 16414     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.3  | 14.6 21.8 |
| 179         | 18.0  | 11.6 17.4 |

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#75

Fluoranthene

Concen: 32.489 ng/mL

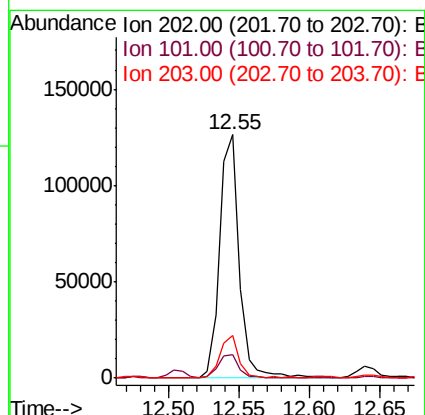
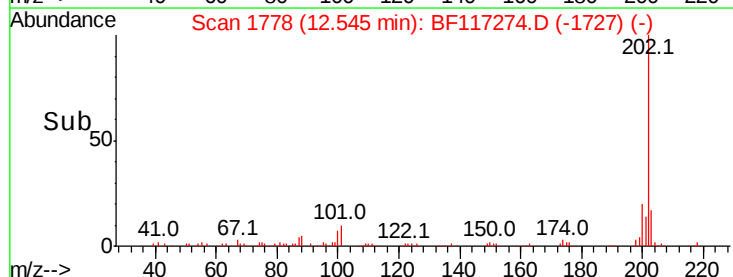
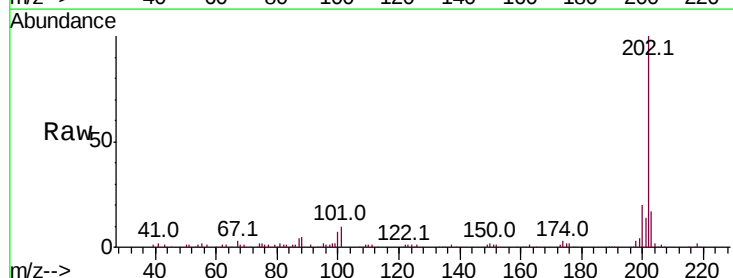
RT: 12.55 min Scan# 1778

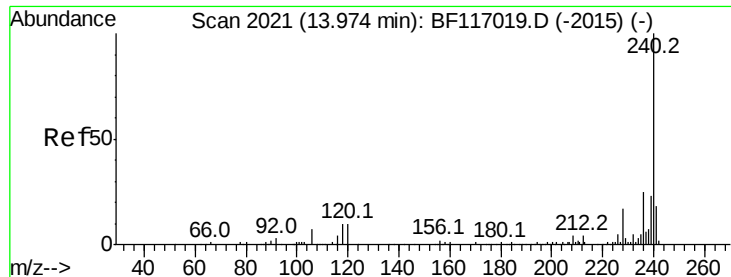
Delta R.T. 0.00 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 122871   |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 9.6   | 0.0 32.3 |
| 203         | 17.3  | 0.0 37.1 |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

Instrument :

BNA\_F

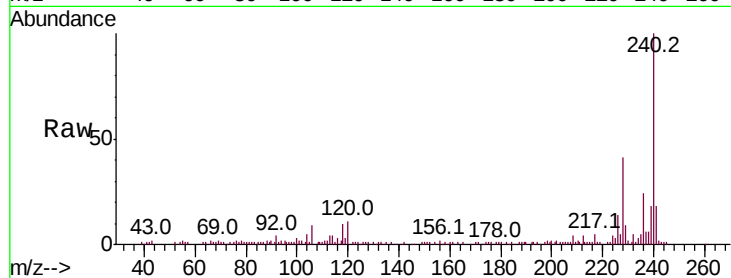
ClientSampleId :

SU-04-092619

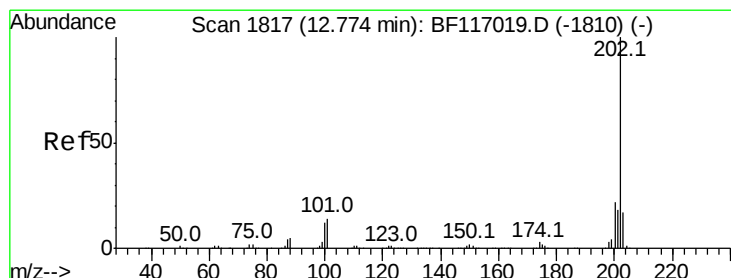
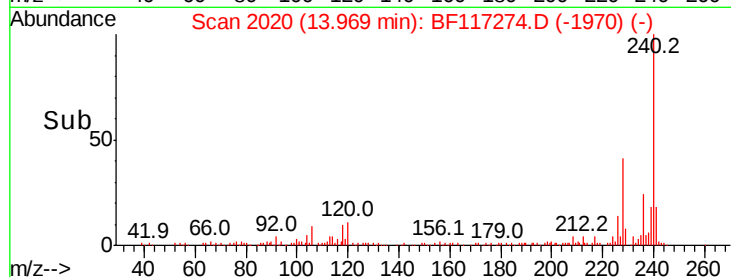
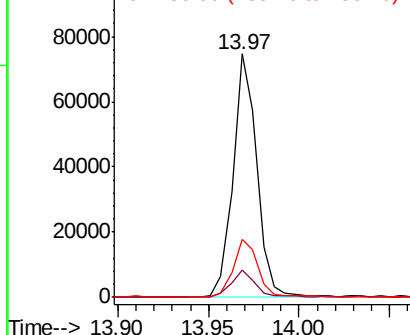
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 240   | Resp: | 68538 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 11.2  | 8.3   | 12.5  |
| 236       | 23.8  | 20.3  | 30.5  |

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Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 21.497 ng

RT: 12.77 min Scan# 1817

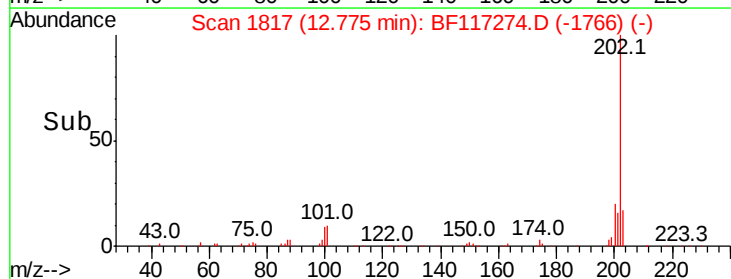
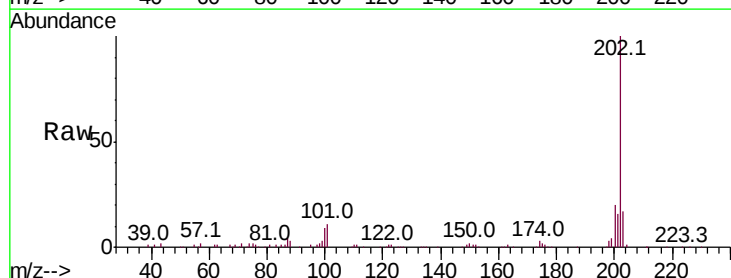
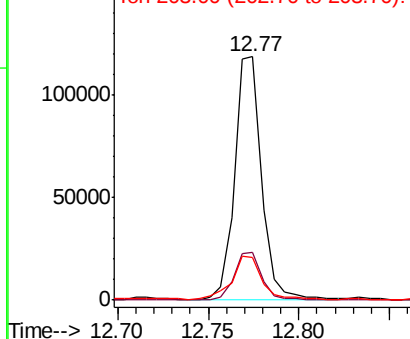
Delta R.T. 0.00 min

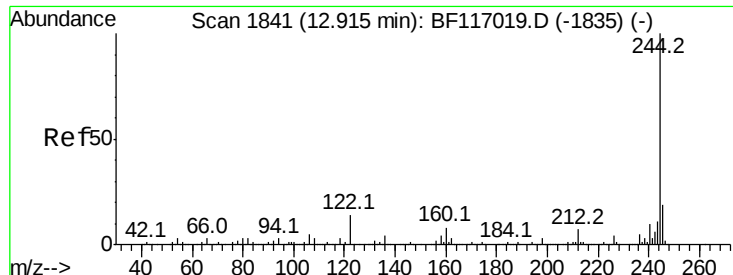
Lab File: BF117274.D

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 123625 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 19.7  | 17.2  | 25.8   |
| 203       | 17.4  | 14.0  | 21.0   |

Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





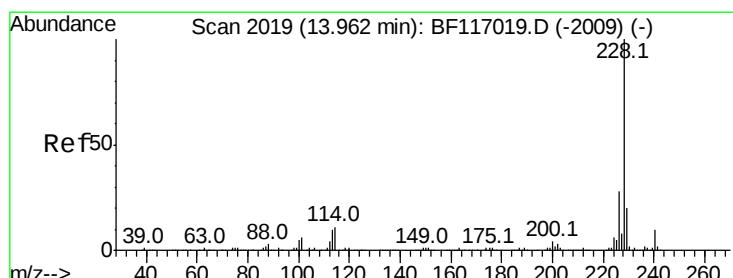
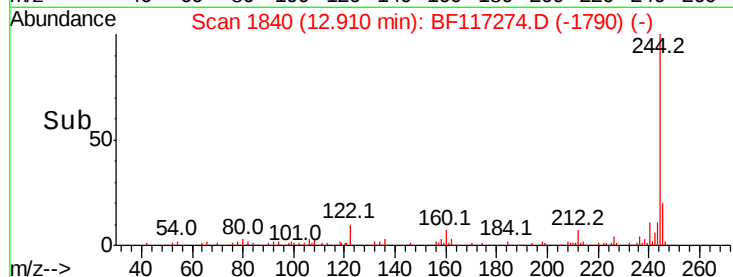
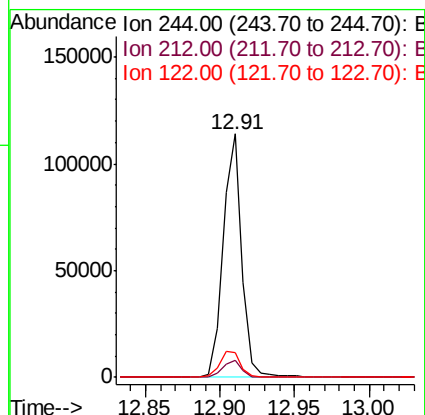
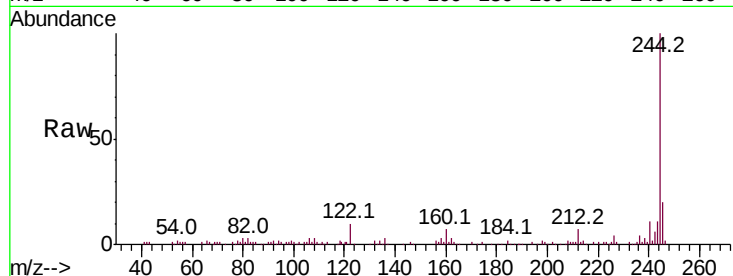
#79  
 Terphenyl-d14  
 Concen: 27.241 ng  
 RT: 12.91 min Scan# 1840  
 Delta R.T. -0.01 min  
 Lab File: BF117274.D  
 Acq: 30 Sep 2019 21:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-092619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.3   | 5.8   | 8.8   |
| 122     | 10.0  | 11.3  | 16.9# |

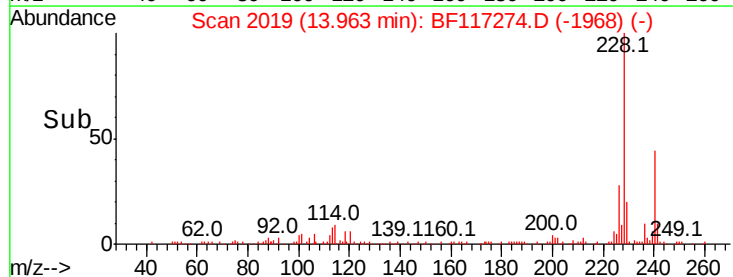
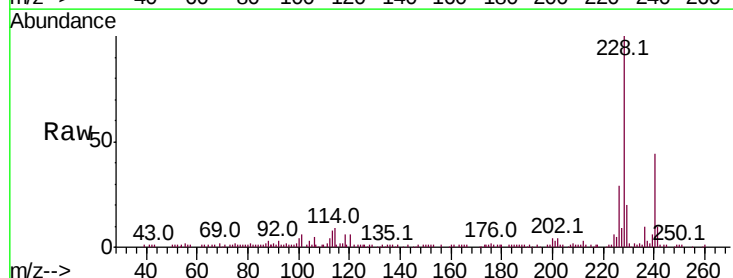
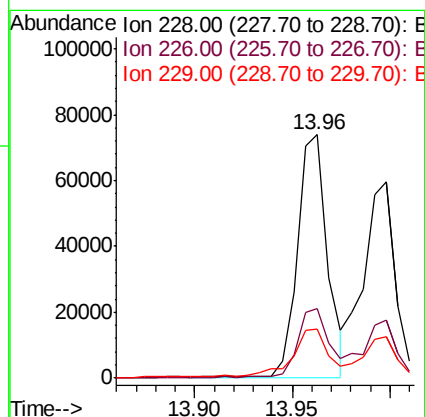
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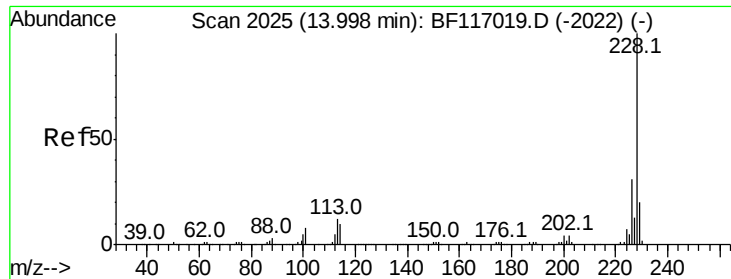
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#81  
 Benzo(a)anthracene  
 Concen: 17.269 ng  
 RT: 13.96 min Scan# 2019  
 Delta R.T. 0.00 min  
 Lab File: BF117274.D  
 Acq: 30 Sep 2019 21:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.6  | 22.3  | 33.5  |
| 229     | 20.2  | 15.9  | 23.9  |





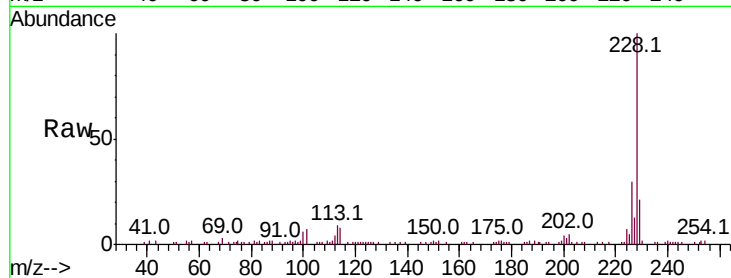
#83  
Chrysene  
Concen: 15.316 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. 0.00 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-092619

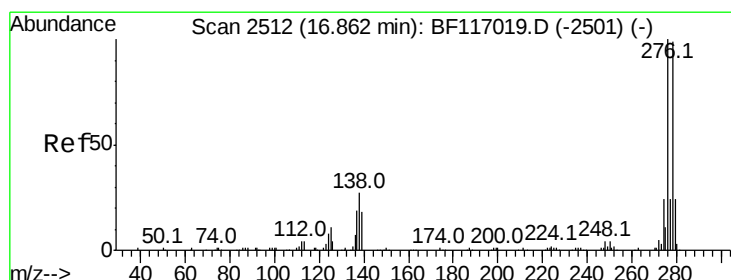
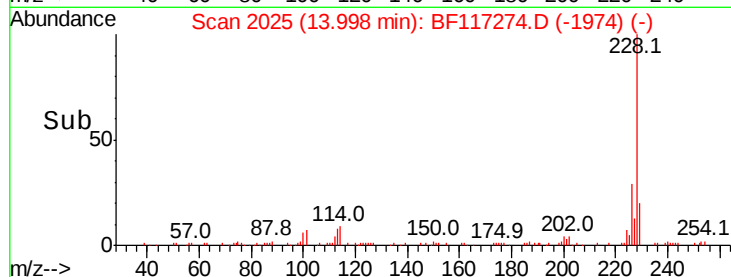
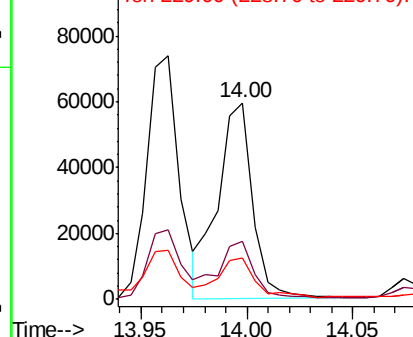
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 24.8  | 37.2  |
| 229     | 20.9  | 15.8  | 23.8  |

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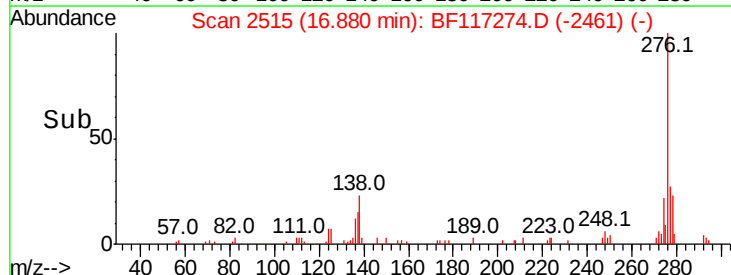
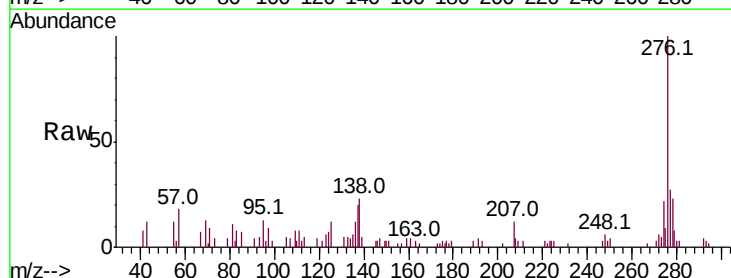
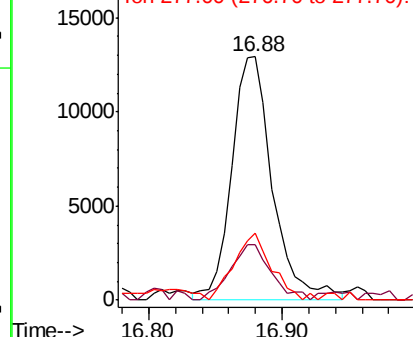
Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

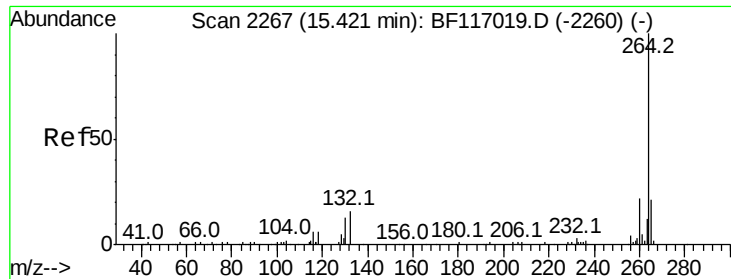


#86  
Indeno(1,2,3-cd)pyrene  
Concen: 8.456 ng  
RT: 16.88 min Scan# 2515  
Delta R.T. 0.02 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.9  | 20.7  | 31.1  |
| 277     | 24.7  | 19.8  | 29.8  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E





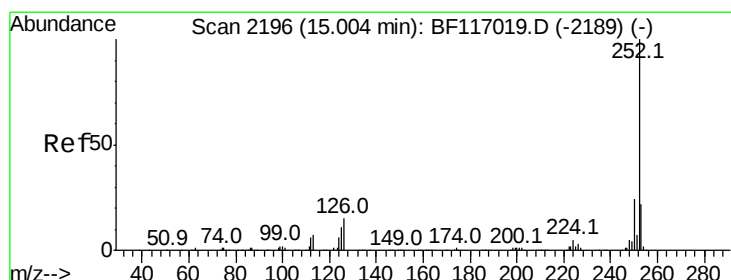
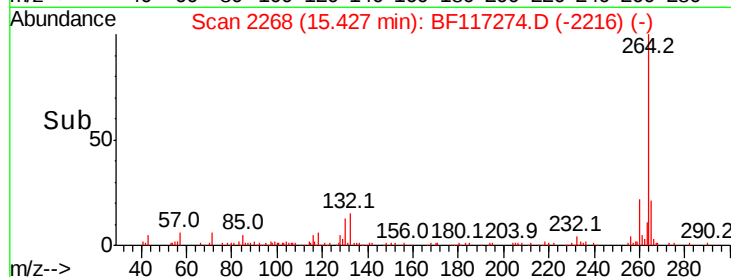
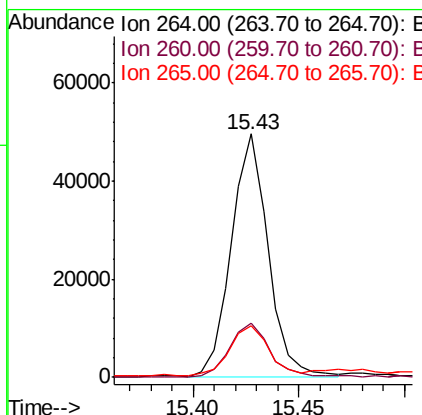
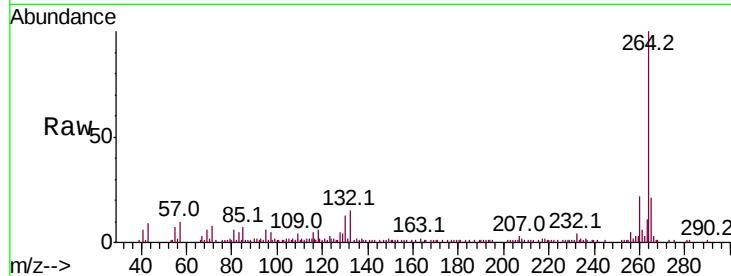
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.43 min Scan# 2268  
Delta R.T. 0.01 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-092619

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 264   | Resp: | 60230 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 22.2  | 17.6  | 26.4  |
| 265       | 21.3  | 16.6  | 24.8  |

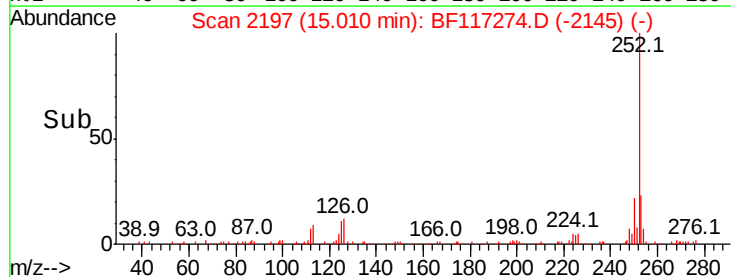
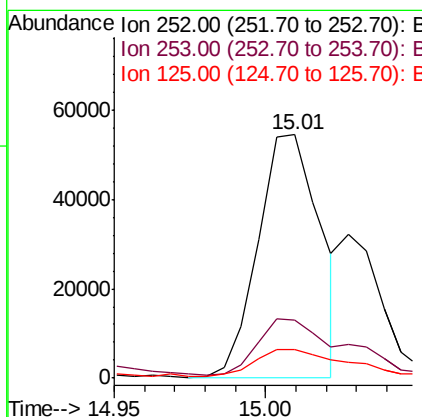
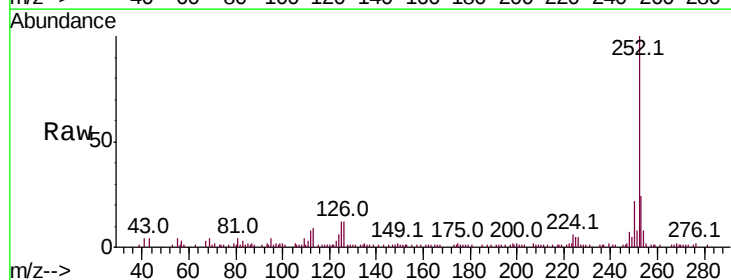
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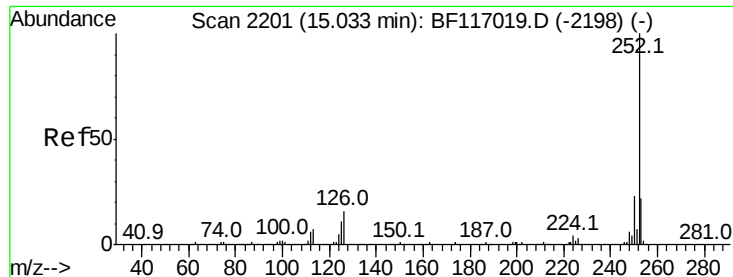
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#88  
Benzo(b)fluoranthene  
Concen: 21.425 ng m  
RT: 15.01 min Scan# 2197  
Delta R.T. 0.01 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 78166 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.7  | 17.6  | 26.4  |
| 125       | 12.0  | 8.6   | 12.8  |





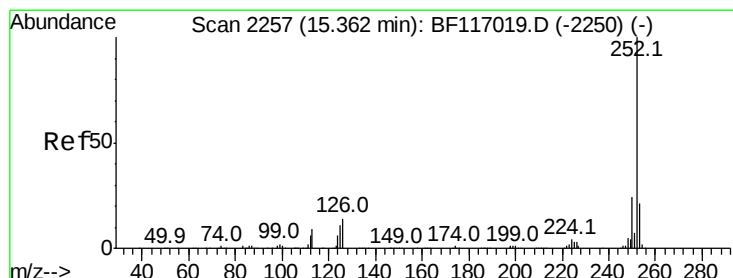
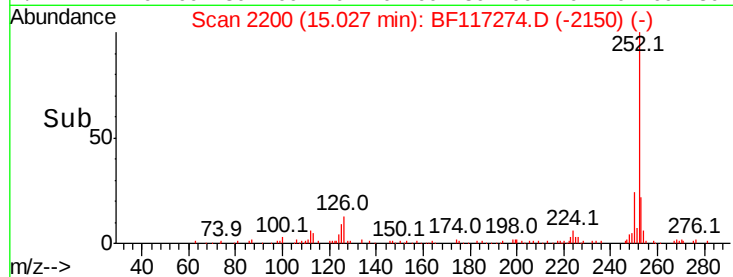
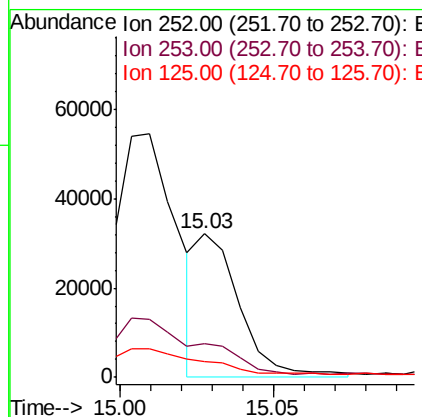
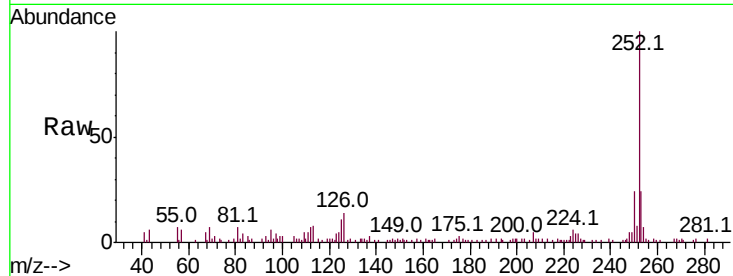
#89  
Benzo(k)fluoranthene  
Concen: 9.084 ng m  
RT: 15.03 min Scan# 2200  
Delta R.T. -0.01 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-092619

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.4  | 26.2  |
| 125     | 11.0  | 8.8   | 13.2  |

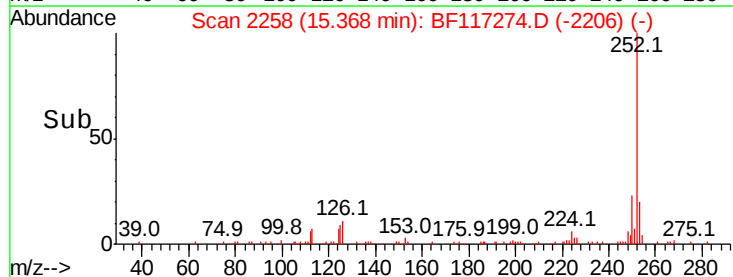
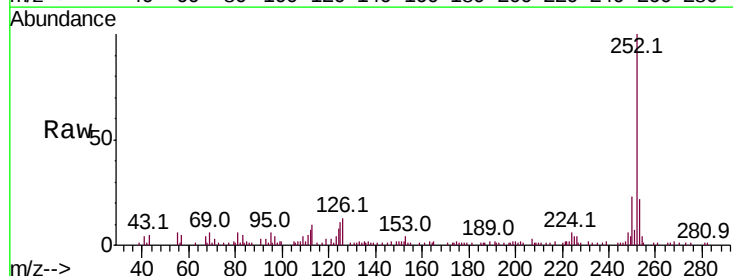
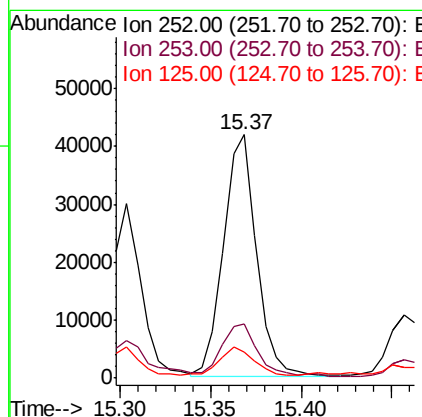
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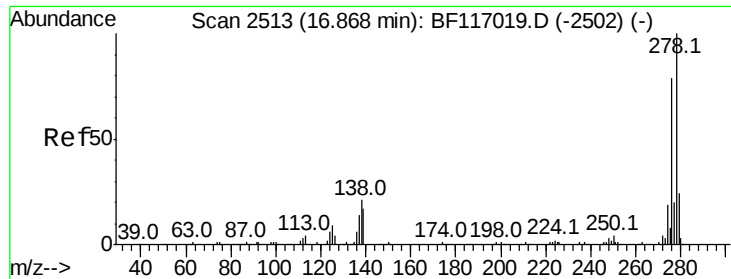
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#90  
Benzo(a)pyrene  
Concen: 16.681 ng  
RT: 15.37 min Scan# 2258  
Delta R.T. 0.01 min  
Lab File: BF117274.D  
Acq: 30 Sep 2019 21:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 16.6  | 25.0  |
| 125     | 10.7  | 8.9   | 13.3  |





#91

Dibenzo(a,h)anthracene

Concen: 3.436 ng

RT: 16.87 min Scan# 2514

Delta R.T. 0.01 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

Instrument :

BNA\_F

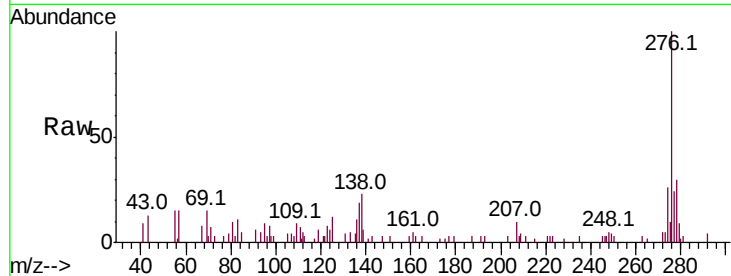
ClientSampleId :

SU-04-092619

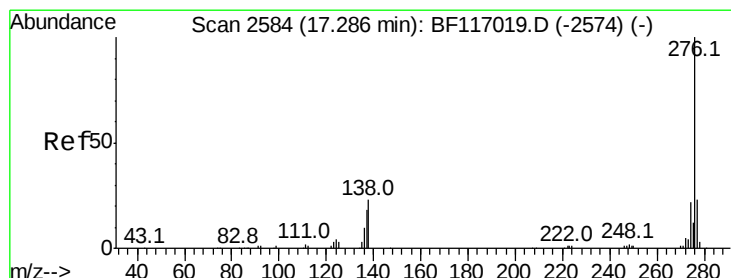
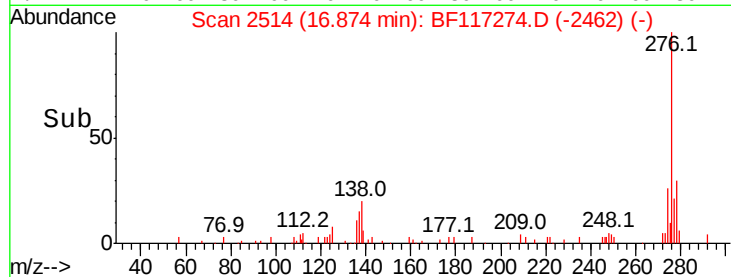
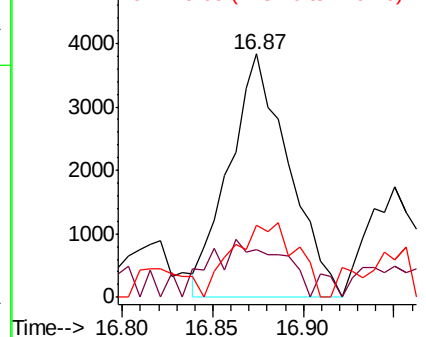
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 8763  |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 19.9  | 13.5  | 20.3  |
| 279       | 29.6  | 18.8  | 28.2# |

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Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 9.005 ng

RT: 17.32 min Scan# 2589

Delta R.T. 0.03 min

Lab File: BF117274.D

Acq: 30 Sep 2019 21:21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 22887 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.4  | 18.6  | 27.8  |
| 138       | 18.9  | 18.0  | 27.0  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

