

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP100419\  
 Data File : BP000515.D  
 Acq On : 04 Oct 2019 18:24  
 Operator : JU  
 Sample : K5143-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 NB-08-100219

Manual Integrations  
 APPROVED

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 10/7/2019 4:38:21 PM

Quant Time: Oct 05 00:26:53 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 01 18:03:42 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.77  | 152  | 232223   | 20.00 | ng    | 0.00      |
| 21) Naphthalene-d8          | 8.05  | 136  | 824312   | 20.00 | ng    | 0.00      |
| 39) Acenaphthene-d10        | 9.81  | 164  | 434323   | 20.00 | ng    | 0.00      |
| 64) Phenanthrene-d10        | 11.31 | 188  | 423225   | 20.00 | ng    | 0.00      |
| 76) Chrysene-d12            | 13.98 | 240  | 385505   | 20.00 | ng    | 0.00      |
| 87) Perylene-d12            | 15.46 | 264  | 458143   | 20.00 | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |       |       |           |
| 5) 2-Fluorophenol           | 5.39  | 112  | 1296962  | 89.78 | ng    | 0.00      |
| 7) Phenol-d6                | 6.41  | 99   | 1633086  | 93.81 | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 893577   | 66.21 | ng    | 0.00      |
| 42) 2,4,6-Tribromophenol    | 10.60 | 330  | 316807   | 68.45 | ng    | 0.00      |
| 45) 2-Fluorobiphenyl        | 9.13  | 172  | 1945506  | 72.48 | ng    | 0.00      |
| 79) Terphenyl-d14           | 12.92 | 244  | 1355586  | 71.20 | ng    | 0.00      |
| Target Compounds            |       |      |          |       |       |           |
| 10) Phenol                  | 6.42  | 94   | 52502    | 2.946 | ng    | Qvalue 90 |
| 50) Dimethylphthalate       | 9.52  | 163  | 250022   | 8.285 | ng    | 99        |
| 71) Phenanthrene            | 11.33 | 178  | 46075    | 2.168 | ng    | 98        |
| 75) Fluoranthene            | 12.53 | 202  | 146547   | 6.139 | ng    | 97        |
| 78) Pyrene                  | 12.76 | 202  | 153537   | 5.775 | ng    | 99        |
| 81) Benzo(a)anthracene      | 13.97 | 228  | 87811    | 3.733 | ng    | 94        |
| 83) Chrysene                | 14.00 | 228  | 97902    | 4.241 | ng    | 97        |
| 86) Indeno(1,2,3-cd)pyrene  | 16.93 | 276  | 100216   | 3.475 | ng    | # 87      |
| 88) Benzo(b)fluoranthene    | 15.03 | 252  | 156037m  | 6.003 | ng    |           |
| 89) Benzo(k)fluoranthene    | 15.05 | 252  | 49566m   | 2.003 | ng    |           |
| 90) Benzo(a)pyrene          | 15.39 | 252  | 118360   | 4.885 | ng    | 98        |
| 92) Benzo(a,h,i)perylene    | 17.37 | 276  | 109337   | 4.579 | ng    | # 93      |

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

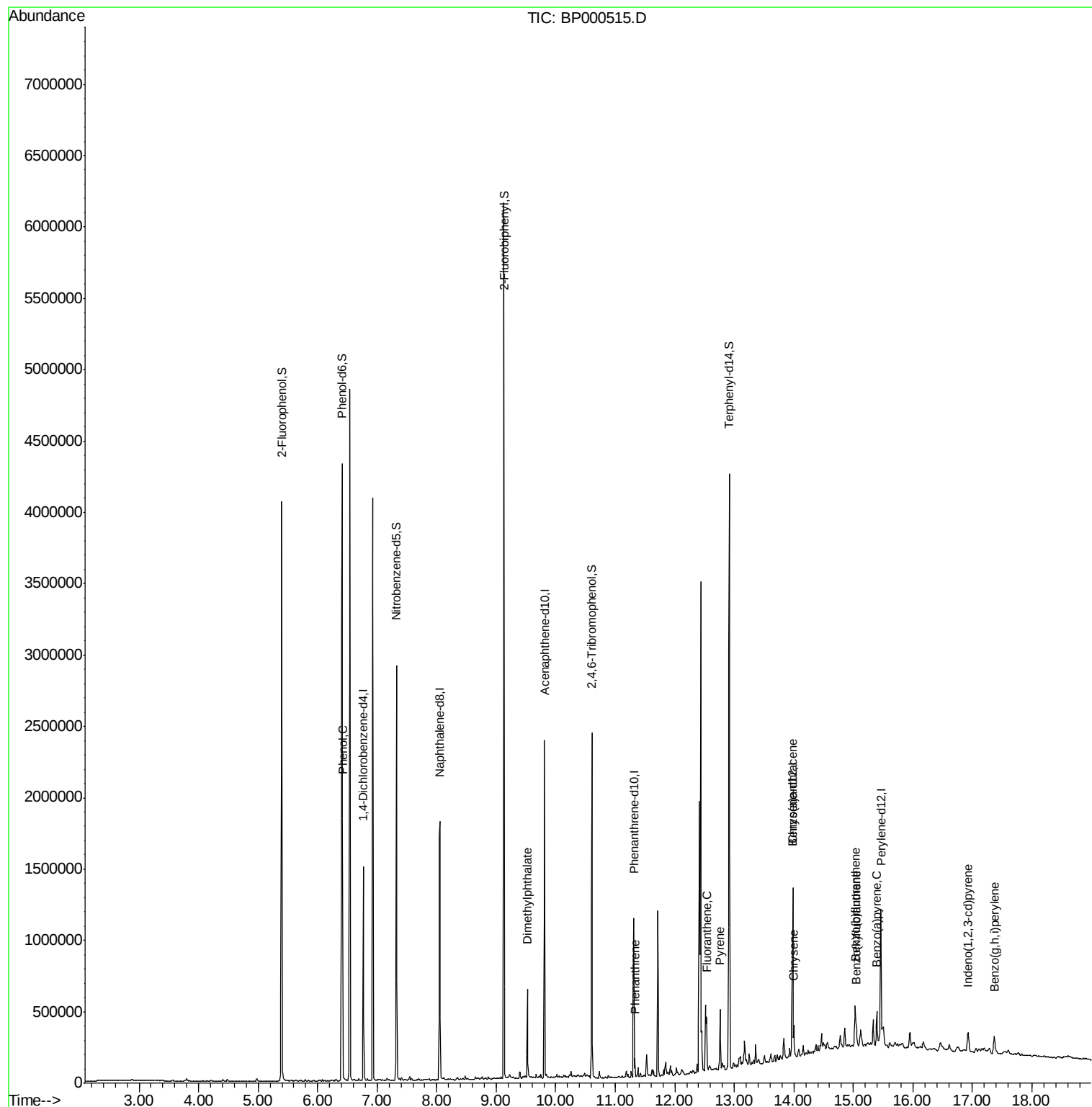
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP100419\  
Data File : BP000515.D  
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Operator : JU  
Sample : K5143-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

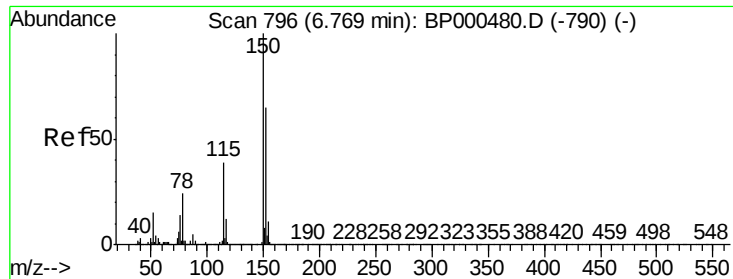
Instrument :  
BNA\_P  
ClientSampleId :  
NB-08-100219

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Quant Time: Oct 05 00:26:53 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 01 18:03:42 2019  
Response via : Initial Calibration





#1

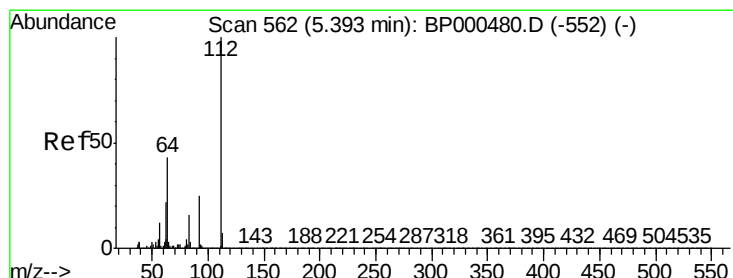
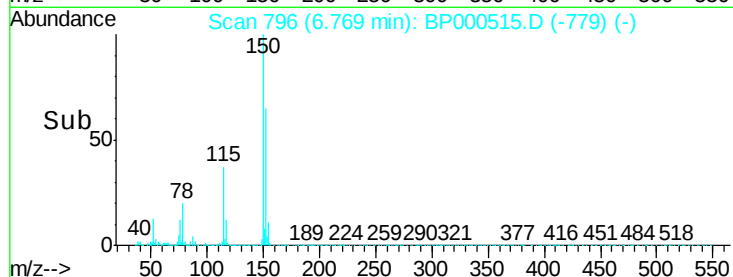
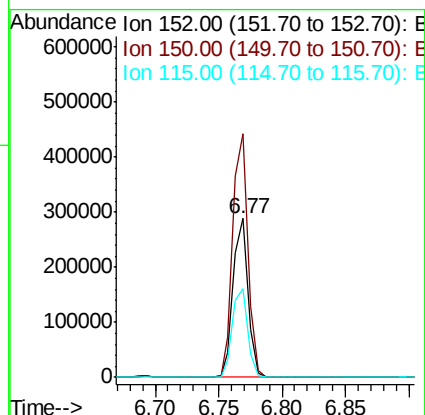
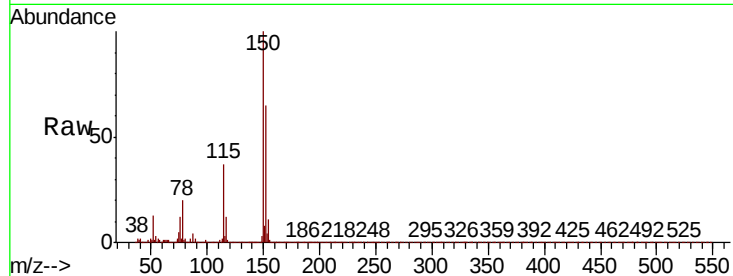
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.77 min Scan# 796  
Delta R.T. -0.00 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

Instrument :  
BNA\_P  
ClientSampleId :  
NB-08-100219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.5 | 124.1 | 186.1 |
| 115     | 56.1  | 48.7  | 73.1  |

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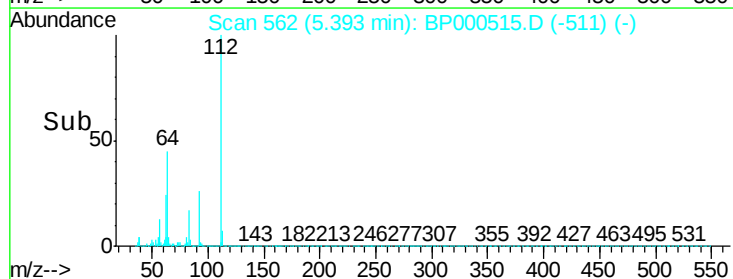
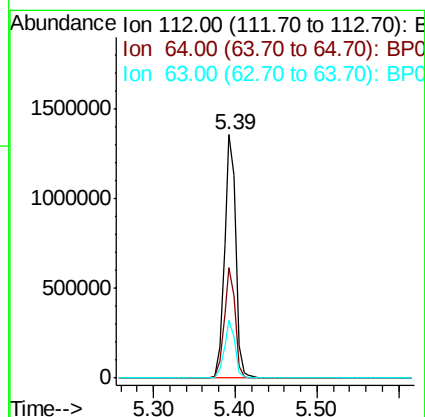
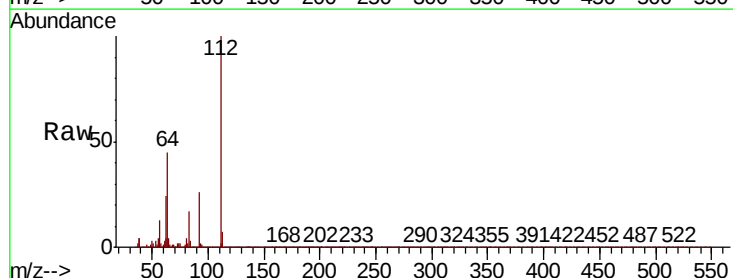
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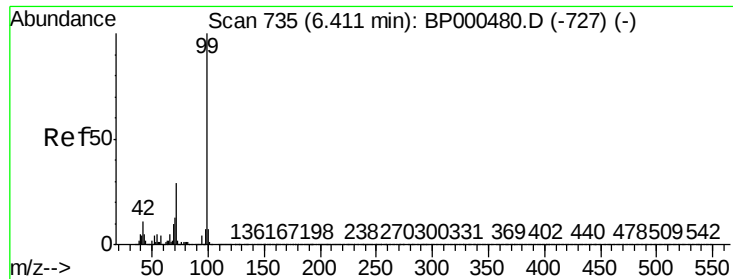


#5

2-Fluorophenol  
Concen: 89.775 ng  
RT: 5.39 min Scan# 562  
Delta R.T. -0.00 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 45.5  | 34.2  | 51.4  |
| 63      | 23.7  | 17.9  | 26.9  |





#7

Phenol-d6

Concen: 93.807 ng

RT: 6.41 min Scan# 735

Delta R.T. -0.00 min

Lab File: BP000515.D

Acq: 04 Oct 2019 18:24

Instrument :

BNA\_P

ClientSampleId :

NB-08-100219

Tot Ion: 99 Resp: 1633086

Ion Ratio Lower Upper

99 100

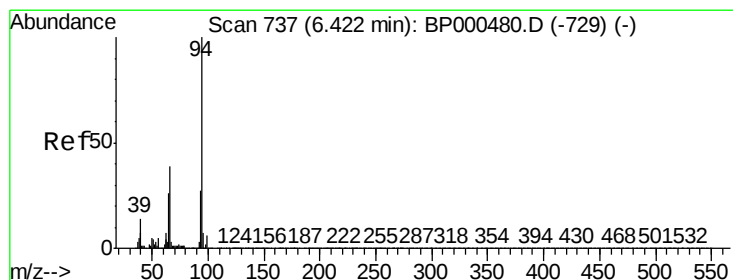
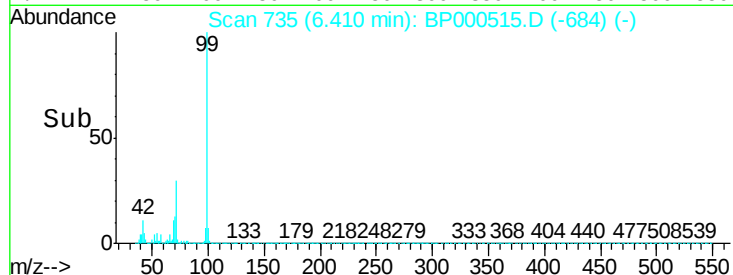
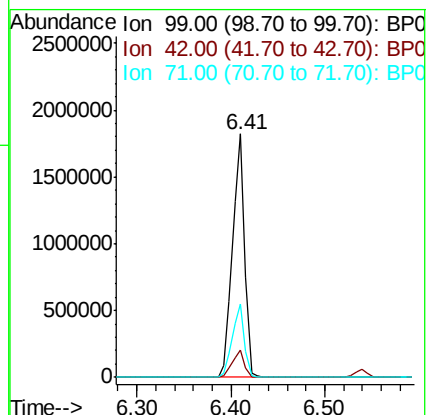
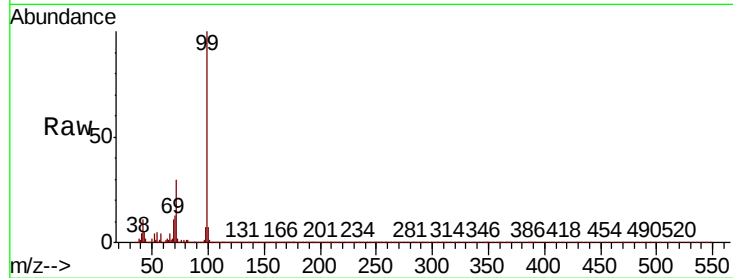
42 11.1 8.6 12.8

71 30.3 23.0 34.4

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#10

Phenol

Concen: 2.946 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.00 min

Lab File: BP000515.D

Acq: 04 Oct 2019 18:24

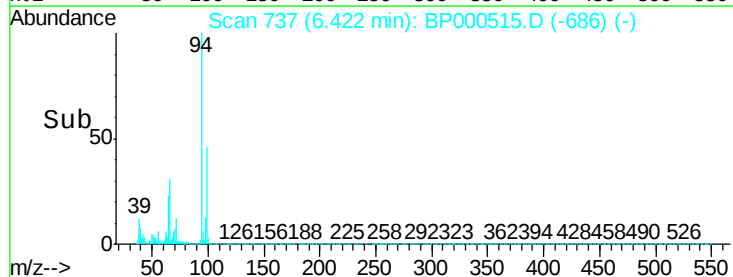
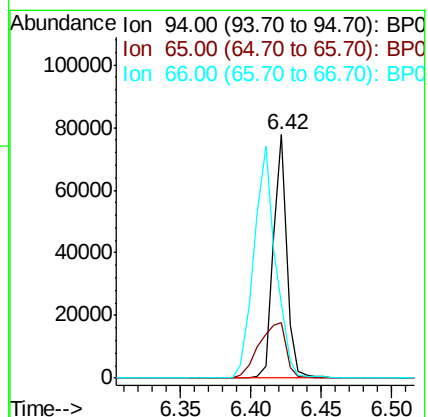
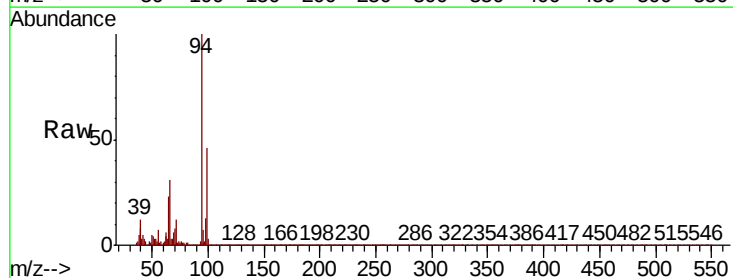
Tgt Ion: 94 Resp: 52502

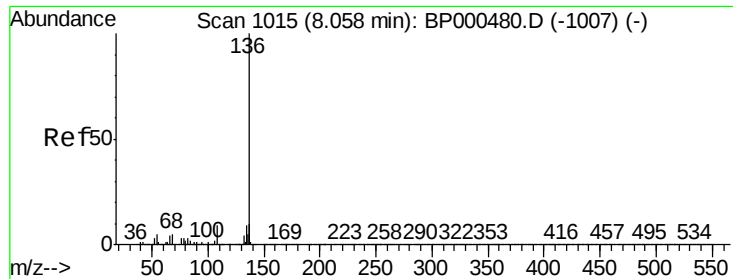
Ion Ratio Lower Upper

94 100

65 22.7 5.9 45.9

66 30.9 18.8 58.8





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.05 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BP000515.D

Acq: 04 Oct 2019 18:24

Instrument :

BNA\_P

ClientSampled :

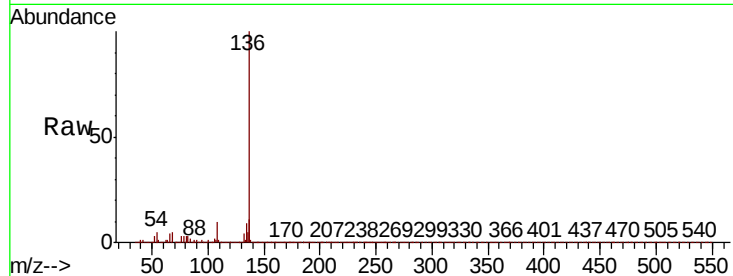
NB-08-100219

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 136     | 100   |            |       |
| 137     | 10.7  | 8.2        | 12.4  |
| 54      | 5.1   | 4.1        | 6.1   |
| 68      | 5.0   | 4.1        | 6.1   |

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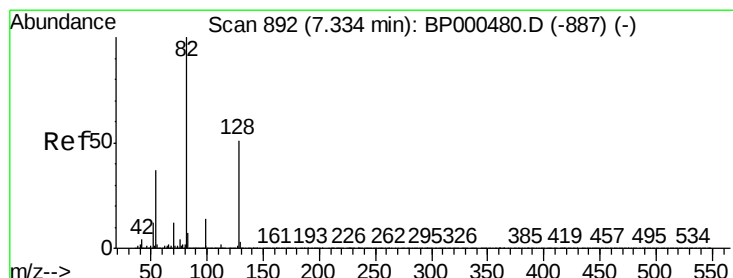
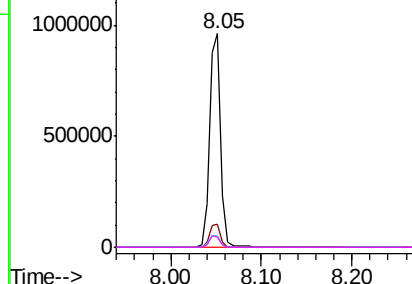
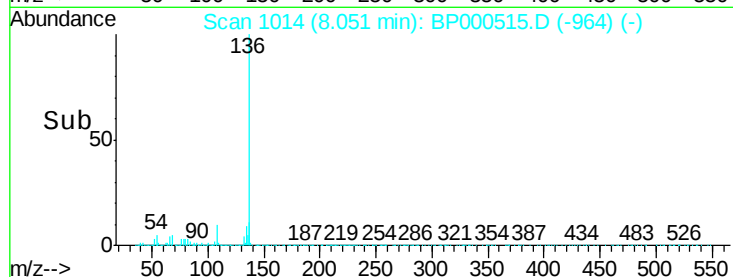


Abundance Ion 136.00 (135.70 to 136.70): E

1500000 Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BP0

Ion 68.00 (67.70 to 68.70): BP0



#23

Nitrobenzene-d5

Concen: 66.207 ng

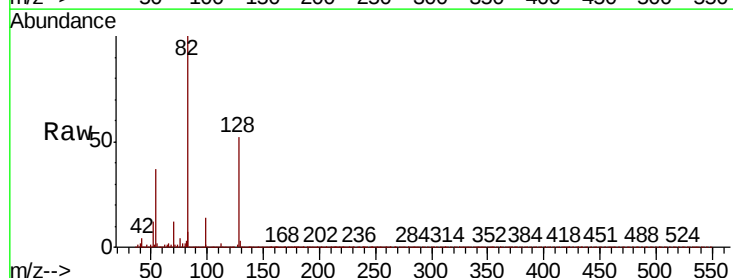
RT: 7.33 min Scan# 891

Delta R.T. -0.01 min

Lab File: BP000515.D

Acq: 04 Oct 2019 18:24

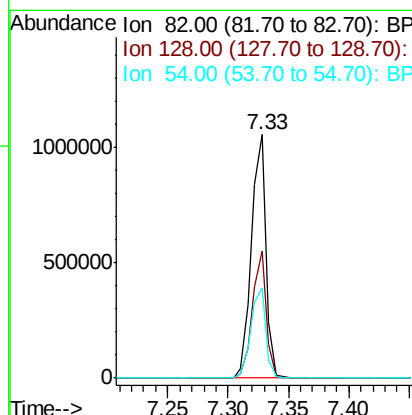
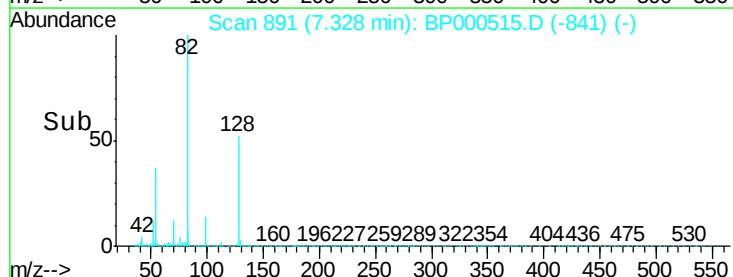
| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 52.1  | 40.9       | 61.3  |
| 54      | 36.8  | 29.4       | 44.2  |

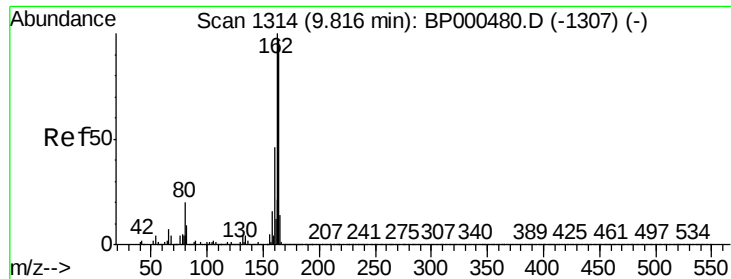


Abundance Ion 82.00 (81.70 to 82.70): BP0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BP0





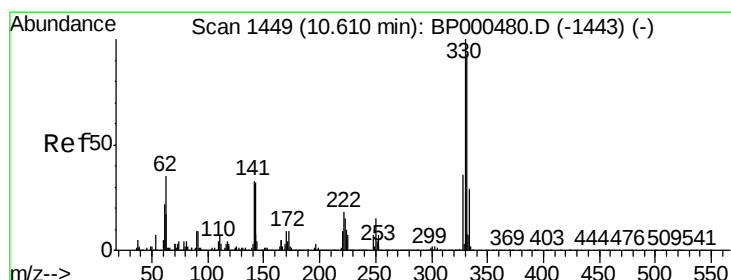
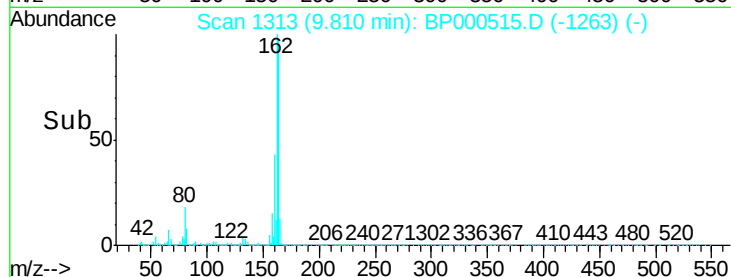
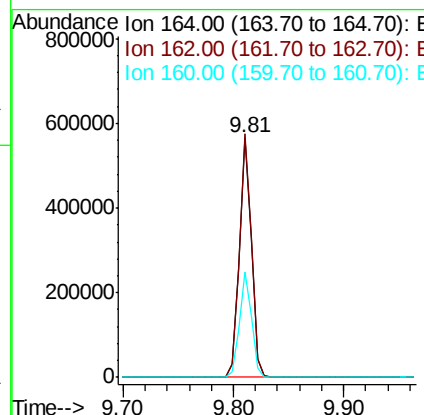
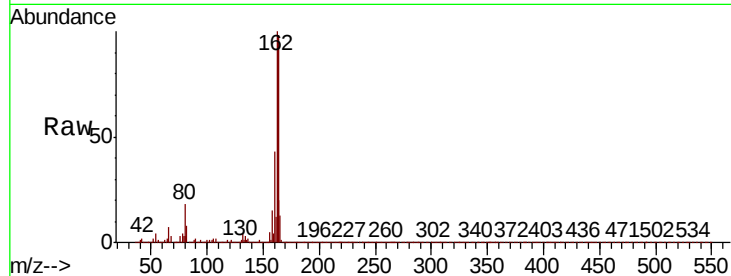
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.81 min Scan# 1313  
 Delta R.T. -0.01 min  
 Lab File: BP000515.D  
 Acq: 04 Oct 2019 18:24

Instrument :  
 BNA\_P  
 ClientSampleId :  
 NB-08-100219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.8 | 82.2  | 123.2 |
| 160     | 44.0  | 37.6  | 56.4  |

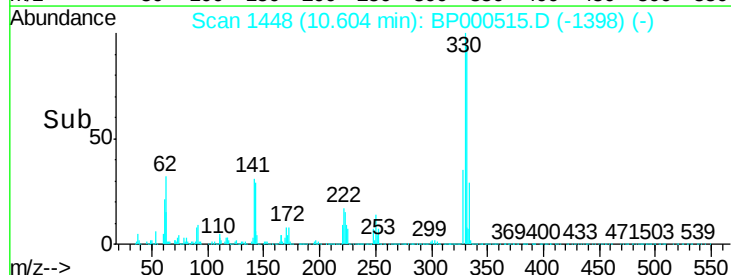
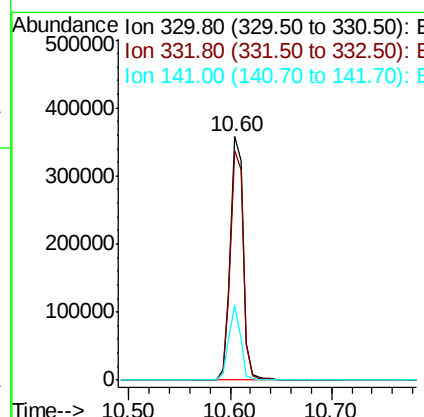
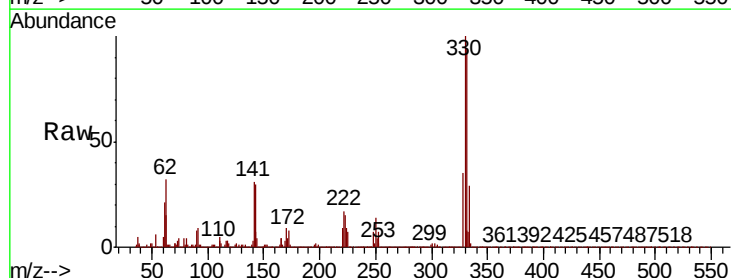
Manual Integrations  
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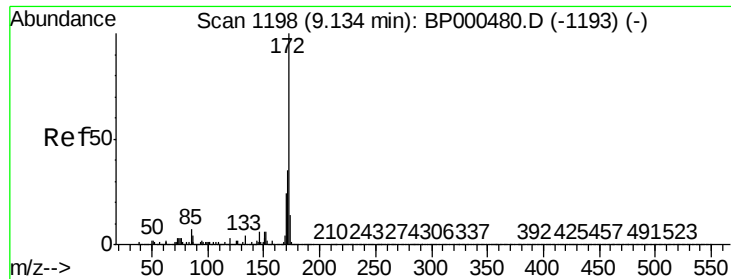
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#42  
 2,4,6-Tribromophenol  
 Concen: 68.451 ng  
 RT: 10.60 min Scan# 1448  
 Delta R.T. -0.01 min  
 Lab File: BP000515.D  
 Acq: 04 Oct 2019 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.1  | 77.1  | 115.7 |
| 141     | 27.8  | 26.0  | 39.0  |





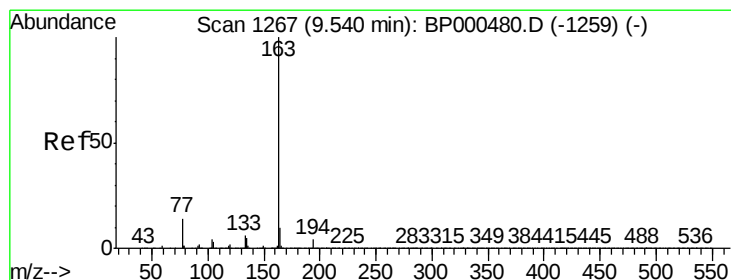
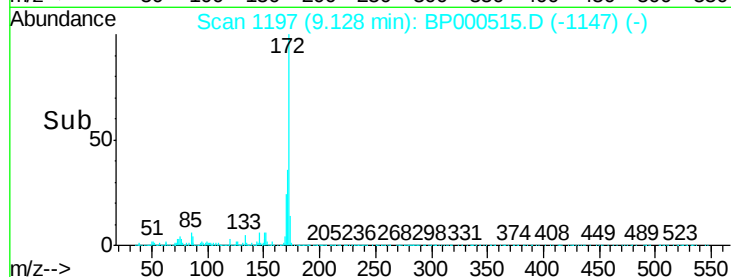
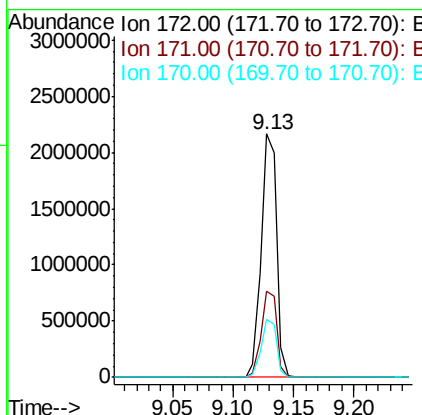
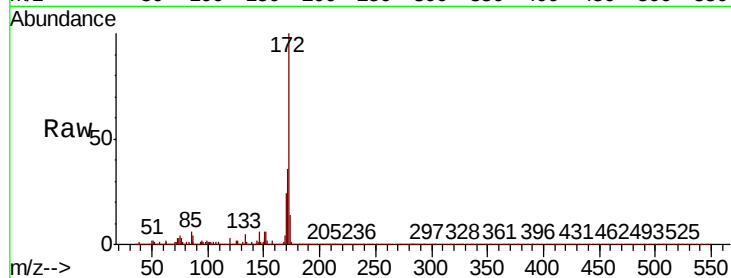
#45  
2-Fluorobiphenyl  
Concen: 72.476 ng  
RT: 9.13 min Scan# 1197  
Delta R.T. -0.01 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

Instrument :  
BNA\_P  
ClientSampleId :  
NB-08-100219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 28.4  | 42.6  |
| 170     | 23.9  | 19.1  | 28.7  |

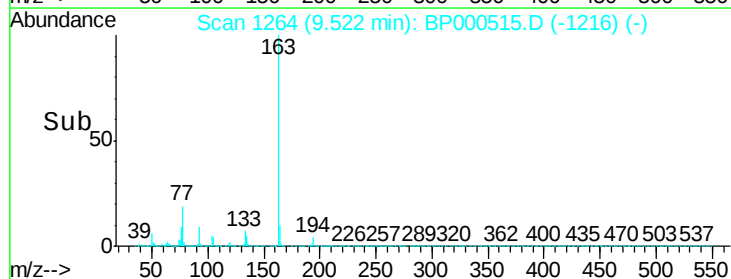
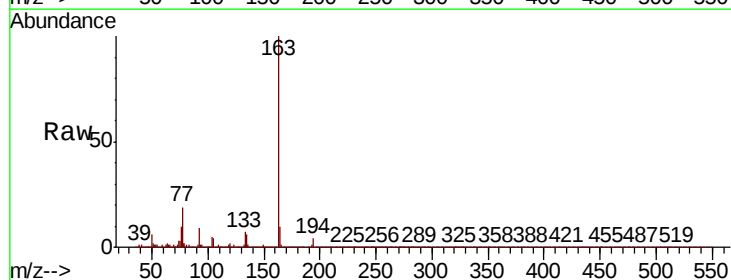
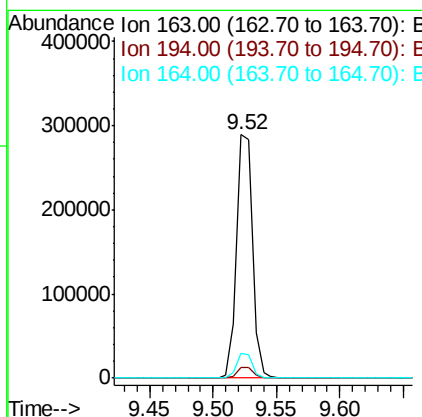
Manual Integrations  
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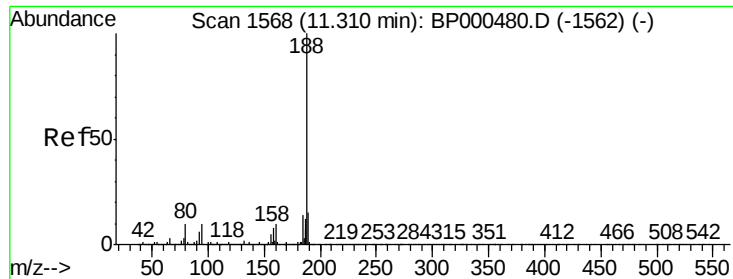
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#50  
Dimethylphthalate  
Concen: 8.285 ng  
RT: 9.52 min Scan# 1264  
Delta R.T. -0.02 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.4   | 5.2   |
| 164     | 10.4  | 8.0   | 12.0  |





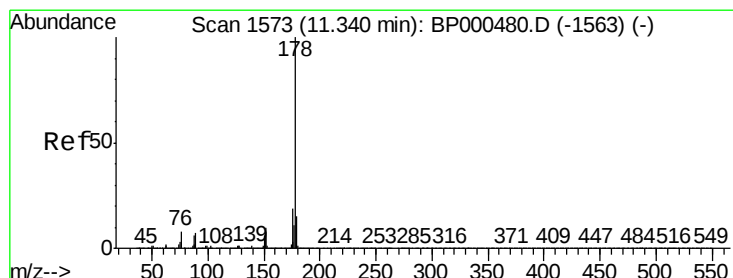
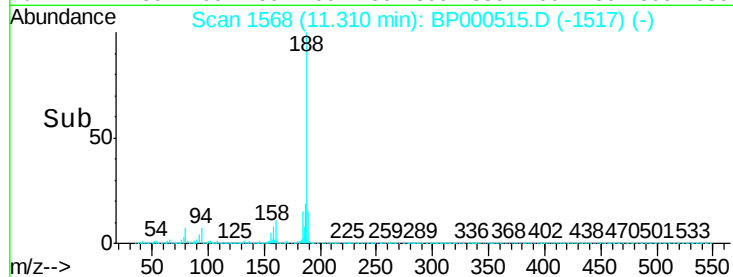
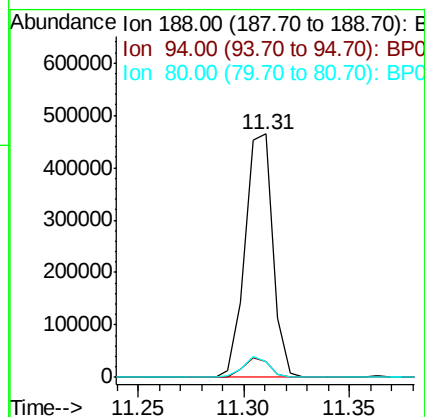
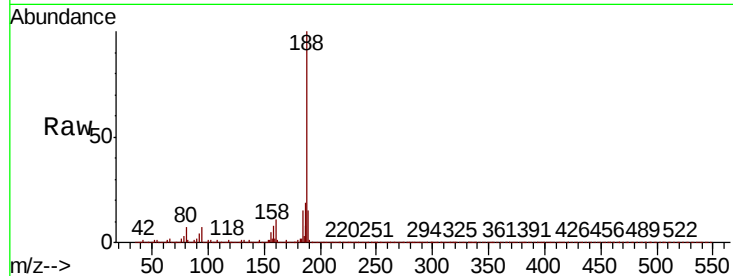
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.31 min Scan# 1568  
Delta R.T. -0.00 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

Instrument :  
BNA\_P  
ClientSampleId :  
NB-08-100219

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 6.6   | 8.2        | 12.2# |
| 80      | 6.7   | 8.3        | 12.5# |

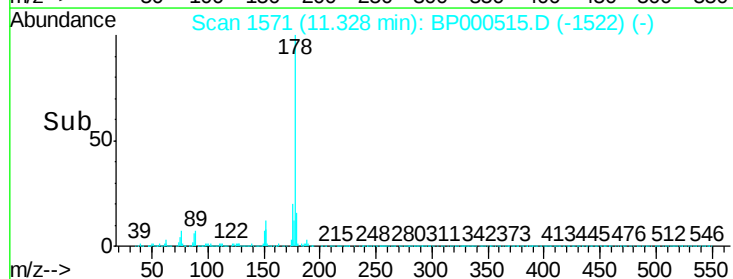
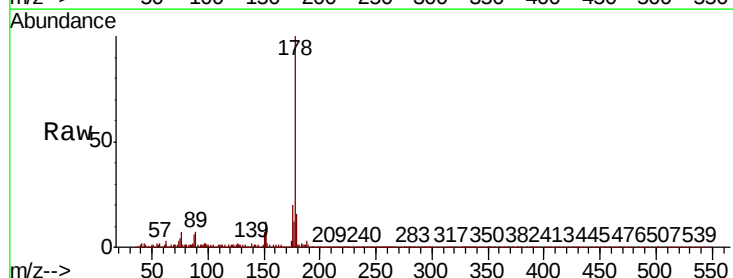
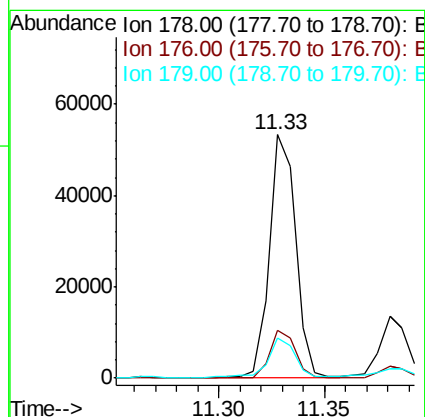
Manual Integrations  
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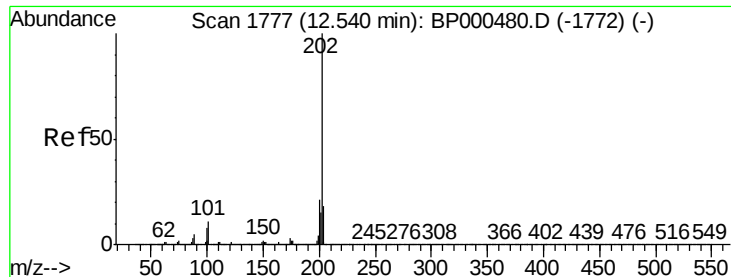
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#71  
Phenanthrene  
Concen: 2.168 ng  
RT: 11.33 min Scan# 1571  
Delta R.T. -0.01 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.6  | 15.4       | 23.2  |
| 179     | 16.4  | 12.2       | 18.4  |





#75

Fluoranthene

Concen: 6.139 ng

RT: 12.53 min Scan# 1776

Delta R.T. -0.01 min

Lab File: BP000515.D

Acq: 04 Oct 2019 18:24

Instrument :

BNA\_P

ClientSampled :

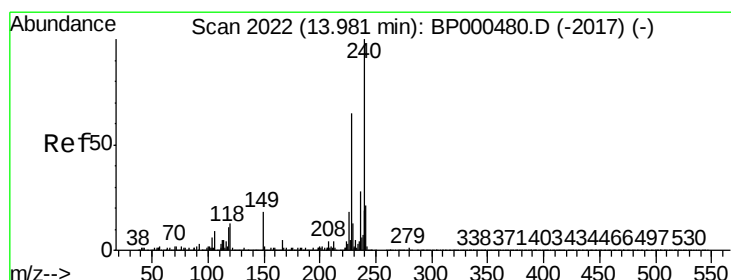
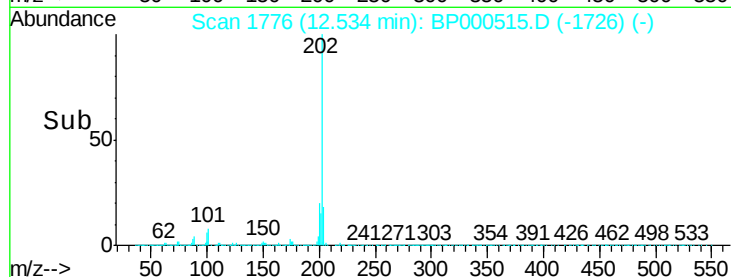
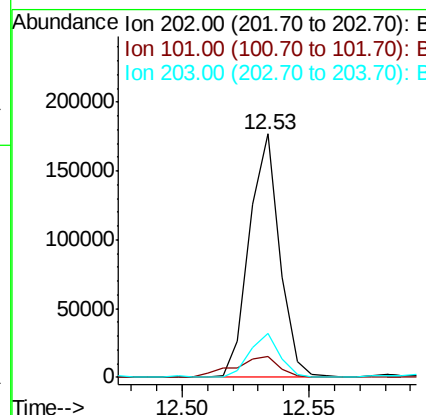
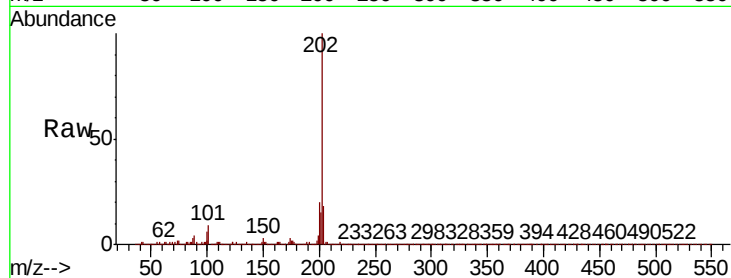
NB-08-100219

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 8.6   | 0.0        | 31.3  |
| 203     | 18.1  | 0.0        | 38.1  |

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#76

Chrysene-d12

Concen: 20.000 ng

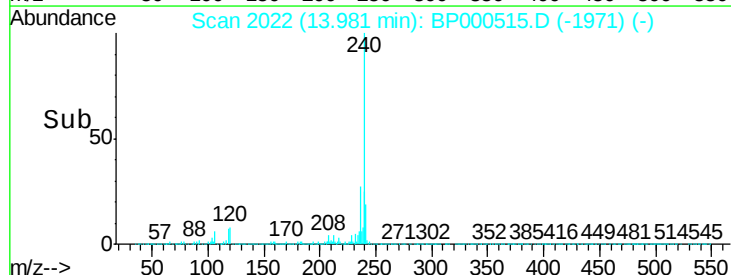
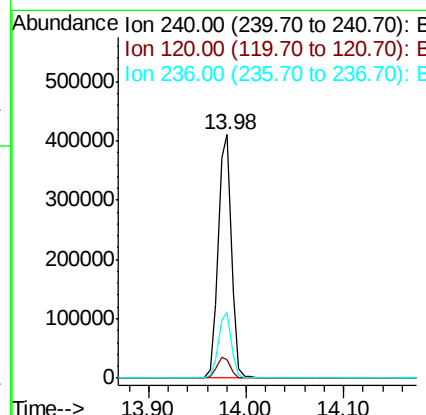
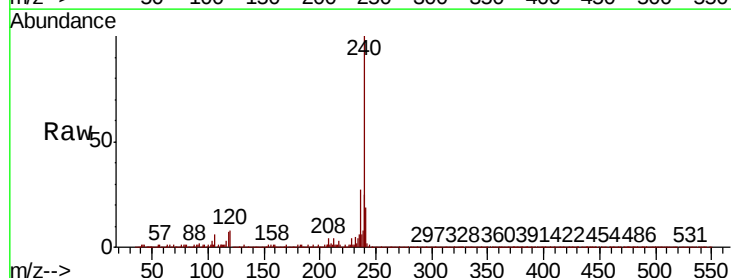
RT: 13.98 min Scan# 2022

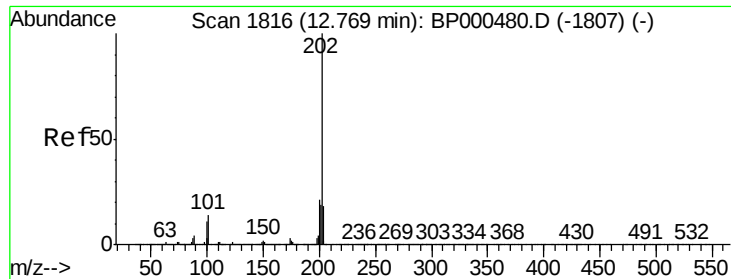
Delta R.T. -0.00 min

Lab File: BP000515.D

Acq: 04 Oct 2019 18:24

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 7.8   | 10.1       | 15.1# |
| 236     | 26.7  | 22.7       | 34.1  |





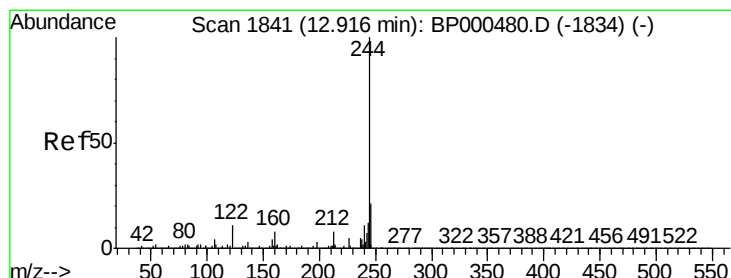
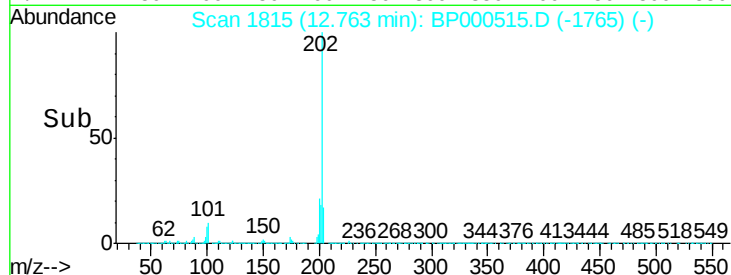
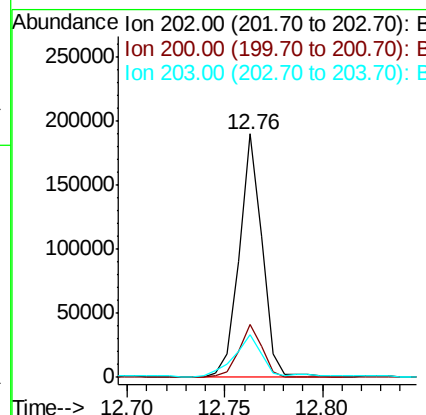
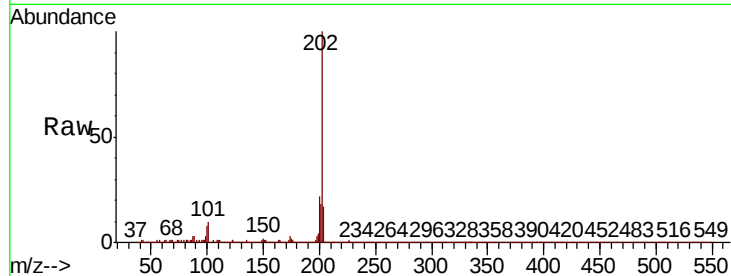
#78  
Pvrene  
Concen: 5.775 ng  
RT: 12.76 min Scan# 1815  
Delta R.T. -0.01 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

Instrument :  
BNA\_P  
ClientSampleId :  
NB-08-100219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.5  | 17.1  | 25.7  |
| 203     | 17.3  | 14.6  | 21.8  |

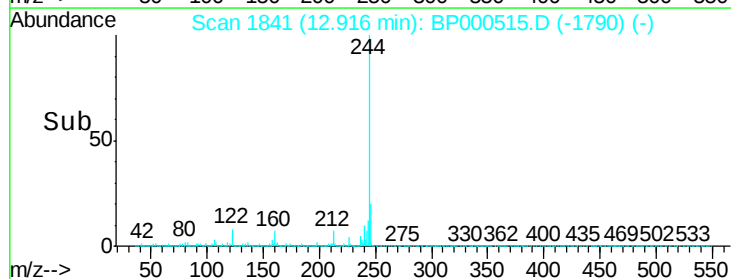
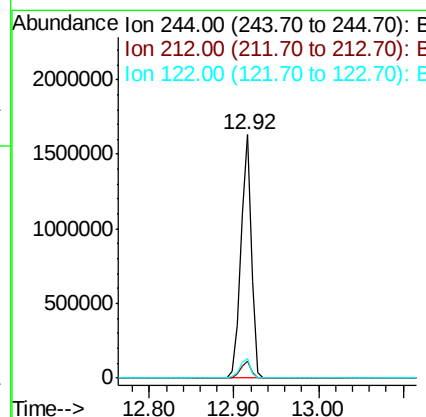
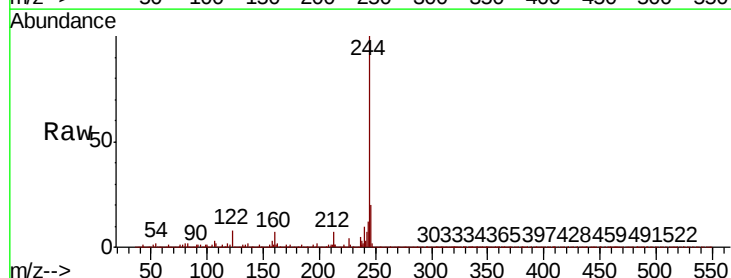
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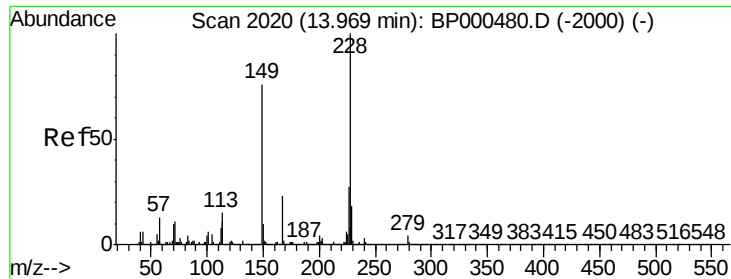
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#79  
Terphenyl-d14  
Concen: 71.197 ng  
RT: 12.92 min Scan# 1841  
Delta R.T. -0.00 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.1   | 6.0   | 9.0   |
| 122     | 8.0   | 8.9   | 13.3  |





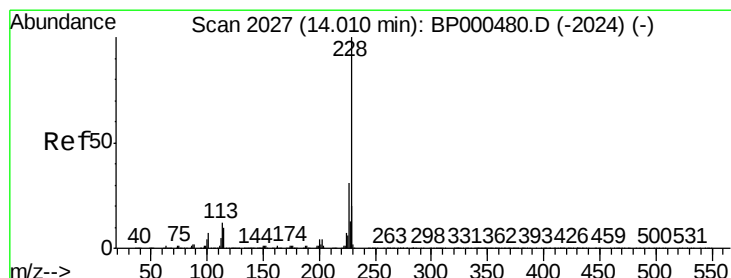
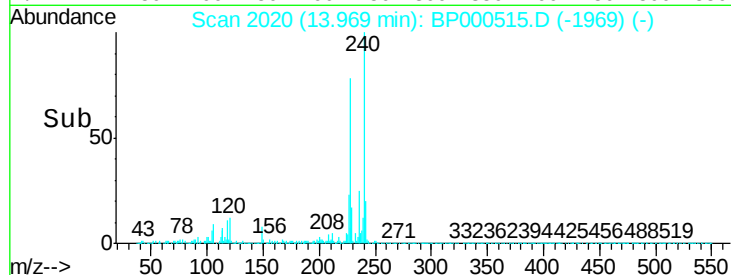
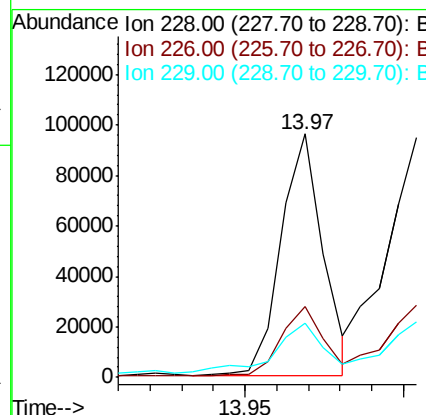
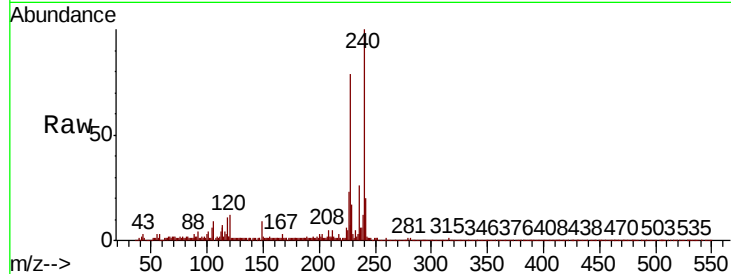
#81  
Benzo(a)anthracene  
Concen: 3.733 ng  
RT: 13.97 min Scan# 2020  
Delta R.T. -0.00 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

Instrument :  
BNA\_P  
ClientSampleId :  
NB-08-100219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.2  | 21.4  | 32.2  |
| 229     | 22.0  | 14.7  | 22.1  |

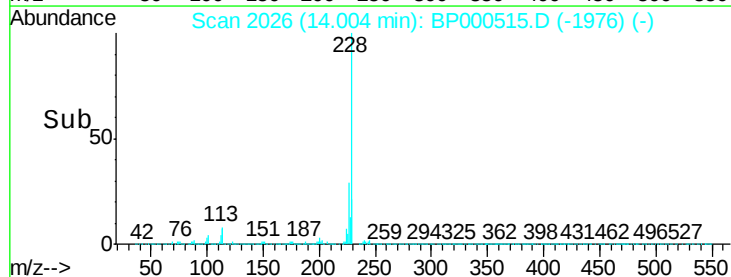
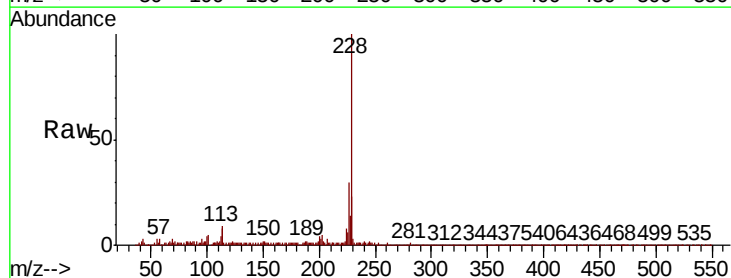
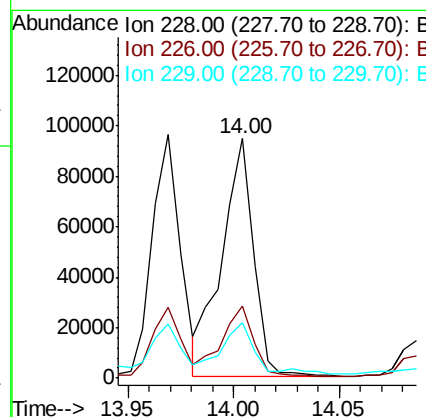
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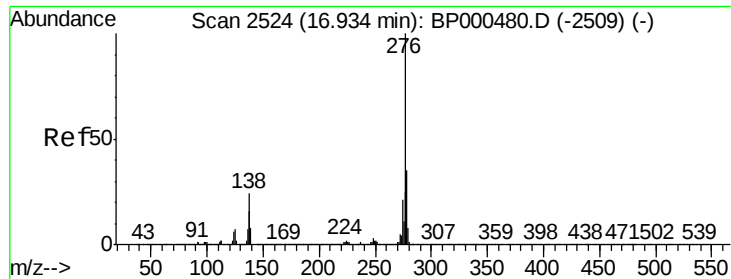
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#83  
Chrysene  
Concen: 4.241 ng  
RT: 14.00 min Scan# 2026  
Delta R.T. -0.01 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.9  | 24.7  | 37.1  |
| 229     | 23.1  | 16.3  | 24.5  |





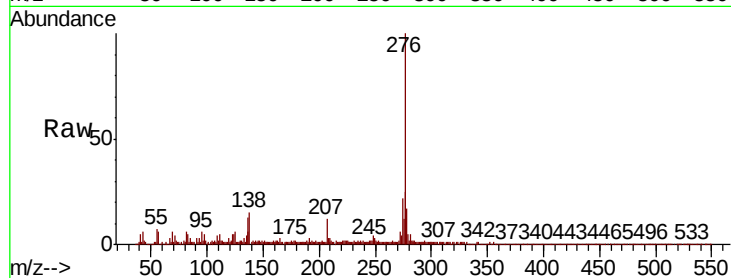
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 3.475 ng  
RT: 16.93 min Scan# 2523  
Delta R.T. -0.01 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

Instrument :  
BNA\_P  
ClientSampleId :  
NB-08-100219

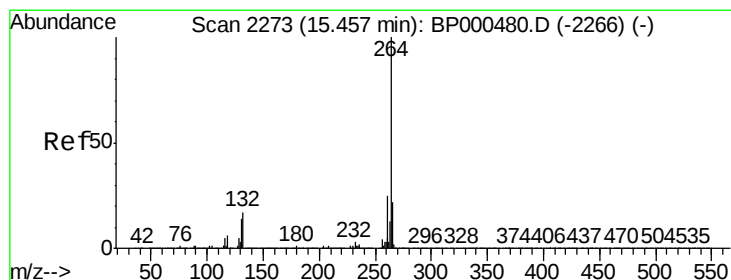
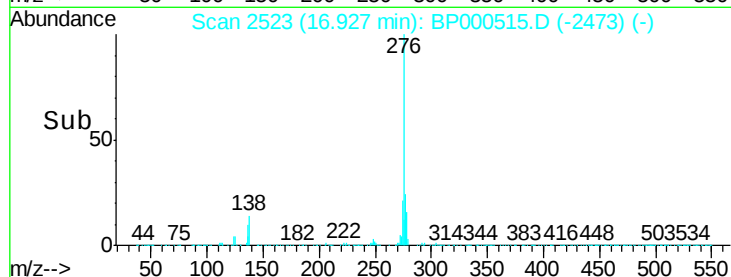
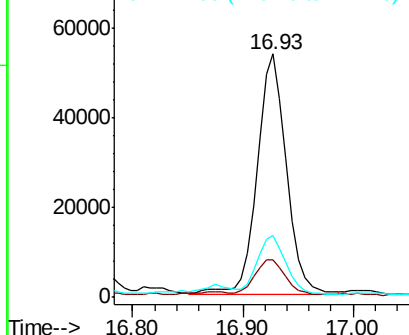
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.0  | 20.9  | 31.3# |
| 277     | 23.7  | 20.6  | 30.8  |

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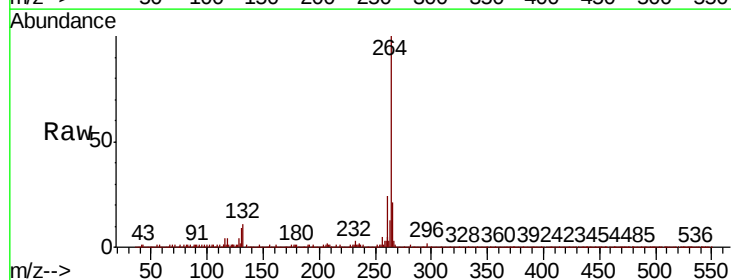


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

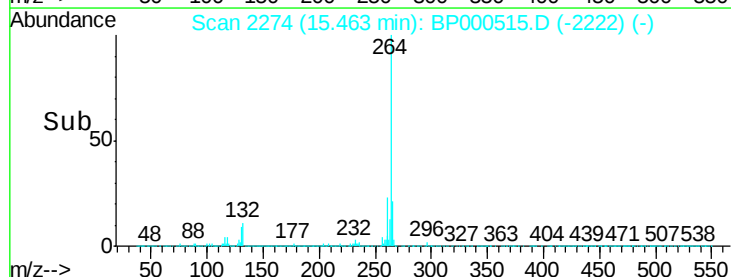
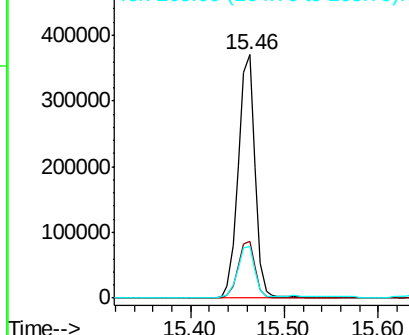


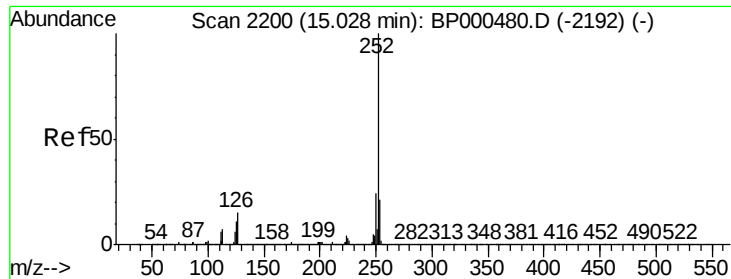
#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.46 min Scan# 2274  
Delta R.T. 0.01 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 20.3  | 30.5  |
| 265     | 21.4  | 18.0  | 27.0  |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





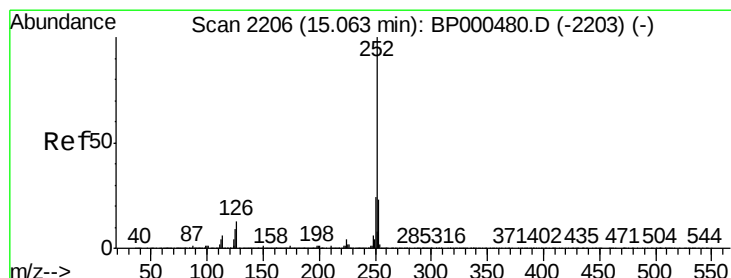
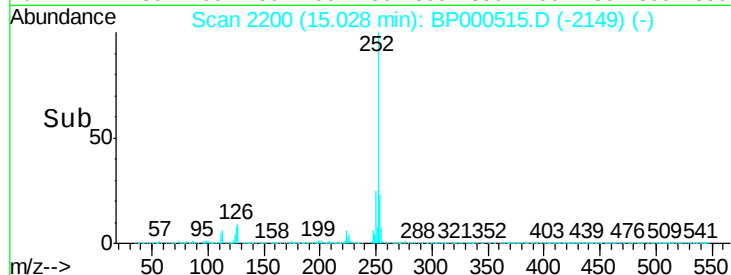
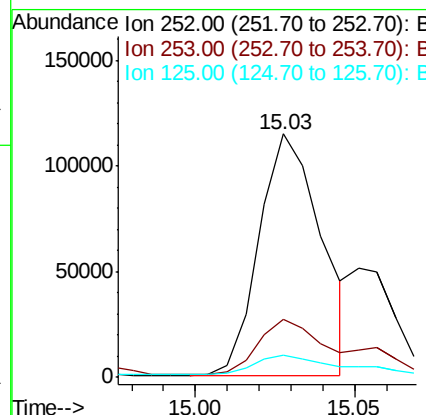
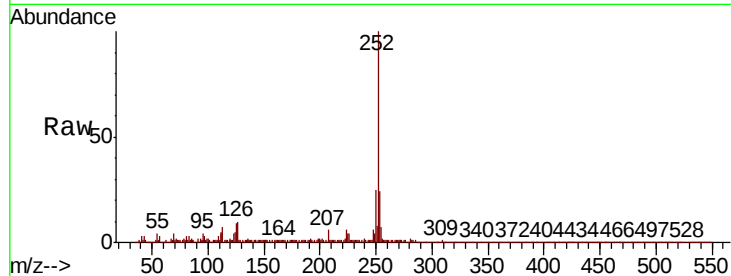
#88  
Benzo(b)fluoranthene  
Concen: 6.003 ng m  
RT: 15.03 min Scan# 2200  
Delta R.T. -0.00 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

Instrument :  
BNA\_P  
ClientSampled :  
NB-08-100219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.0  | 25.4  |
| 125     | 9.2   | 8.9   | 13.3  |

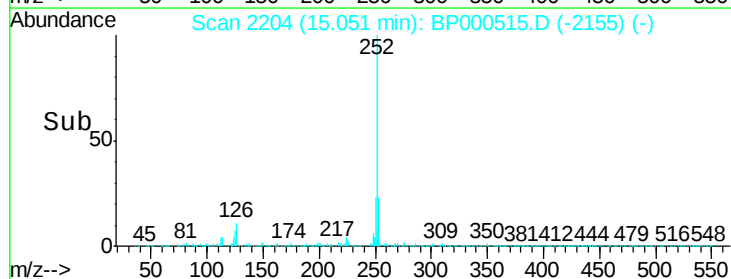
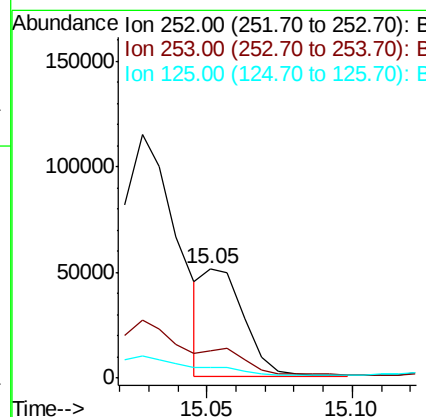
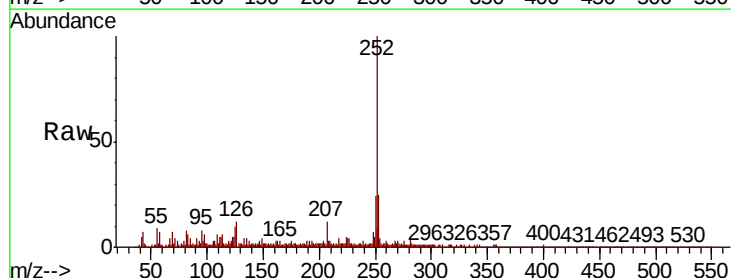
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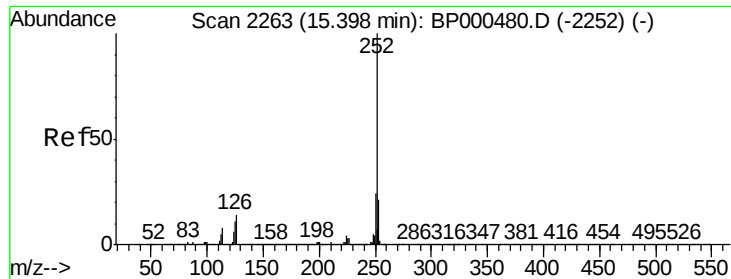
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#89  
Benzo(k)fluoranthene  
Concen: 2.003 ng m  
RT: 15.05 min Scan# 2204  
Delta R.T. -0.01 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 18.4  | 27.6  |
| 125     | 9.6   | 7.8   | 11.8  |





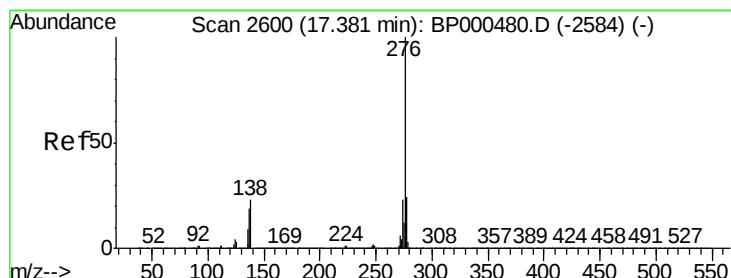
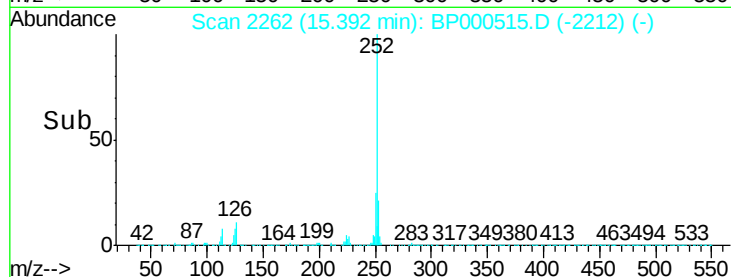
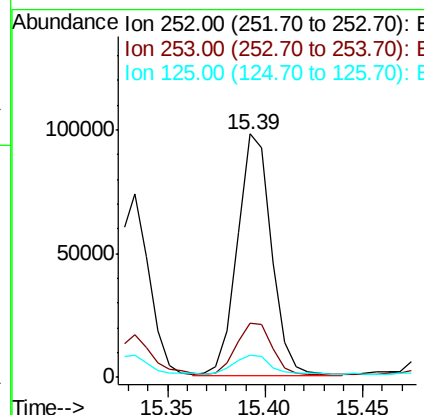
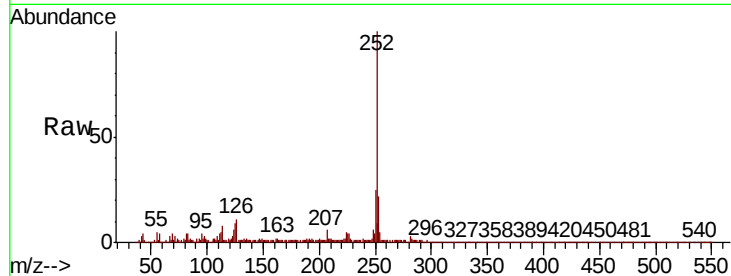
#90  
Benzo(a)pyrene  
Concen: 4.885 ng  
RT: 15.39 min Scan# 2262  
Delta R.T. -0.01 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

Instrument :  
BNA\_P  
ClientSampled :  
NB-08-100219

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 118360 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.2  | 17.0  | 25.6   |
| 125       | 9.3   | 8.4   | 12.6   |

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#92  
Benzo(g,h,i)perylene  
Concen: 4.579 ng  
RT: 17.37 min Scan# 2598  
Delta R.T. -0.01 min  
Lab File: BP000515.D  
Acq: 04 Oct 2019 18:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 109337 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 25.2  | 19.4  | 29.2   |
| 138       | 16.7  | 18.5  | 27.7#  |

