

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082119\  
 Data File : BN007296.D  
 Acq On : 21 Aug 2019 18:46  
 Operator : HP/JU  
 Sample : K4440-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S302-J-1.5-2.0-082019

Manual Integrations  
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Jagrut  
 8/26/2019 12:24:38 PM

Quant Time: Aug 22 05:33:24 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Aug 20 18:52:43 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.41  | 152  | 6136     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.16 | 136  | 23081    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.05 | 164  | 12659    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.80 | 188  | 30971    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.03 | 240  | 33505    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.13 | 264  | 36928    | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| 4) 2-Fluorophenol           | 5.04  | 112 | 4650  | 0.25 | ng | 0.00 |
| 5) Phenol-d6                | 6.60  | 99  | 5777  | 0.26 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.54  | 82  | 4102  | 0.23 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 11.77 | 152 | 9734  | 0.24 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.56 | 330 | 1687  | 0.24 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 12.67 | 172 | 12721 | 0.23 | ng | 0.00 |
| 25) Fluoranthene-d10        | 18.85 | 212 | 22823 | 0.23 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.47 | 244 | 18161 | 0.22 | ng | 0.00 |

#### Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 9) Naphthalene                 | 10.22 | 128 | 3959    | 0.061  | ng | # 93   |
| 12) 2-Methylnaphthalene        | 11.84 | 142 | 2339    | 0.052  | ng | 97     |
| 16) Acenaphthylene             | 13.77 | 152 | 7229    | 0.108  | ng | 97     |
| 17) Acenaphthene               | 14.12 | 154 | 23737   | 0.555  | ng | 99     |
| 18) Fluorene                   | 15.11 | 166 | 27133   | 0.485  | ng | 100    |
| 22) Pentachlorophenol          | 16.47 | 266 | 166     | 0.020  | ng | # 76   |
| 23) Phenanthrene               | 16.84 | 178 | 690794  | 7.116  | ng | 100    |
| 24) Anthracene                 | 16.94 | 178 | 208734  | 2.388  | ng | 97     |
| 26) Fluoranthene               | 18.88 | 202 | 2525141 | 21.476 | ng | 99     |
| 28) Pvrene                     | 19.24 | 202 | 2160848 | 17.247 | ng | # 93   |
| 30) Benzo(a)anthracene         | 21.01 | 228 | 1638352 | 13.150 | ng | 97     |
| 31) Chrysene                   | 21.06 | 228 | 1036188 | 8.150  | ng | 96     |
| 32) Bis(2-ethylhexyl)phthalate | 20.97 | 149 | 20276   | 0.407  | ng | # 91   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.21 | 276 | 668168  | 4.368  | ng | 96     |
| 35) Benzo(b)fluoranthene       | 22.52 | 252 | 1593490 | 11.575 | ng | 99     |
| 36) Benzo(k)fluoranthene       | 22.56 | 252 | 554306m | 4.110  | ng |        |
| 37) Benzo(a)pvrene             | 23.05 | 252 | 1153631 | 9.298  | ng | 99     |
| 38) Dibenzo(a,h)anthracene     | 25.21 | 278 | 195329  | 1.499  | ng | 94     |
| 39) Benzo(g,h,i)perylene       | 25.83 | 276 | 610321  | 4.632  | ng | 99     |

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

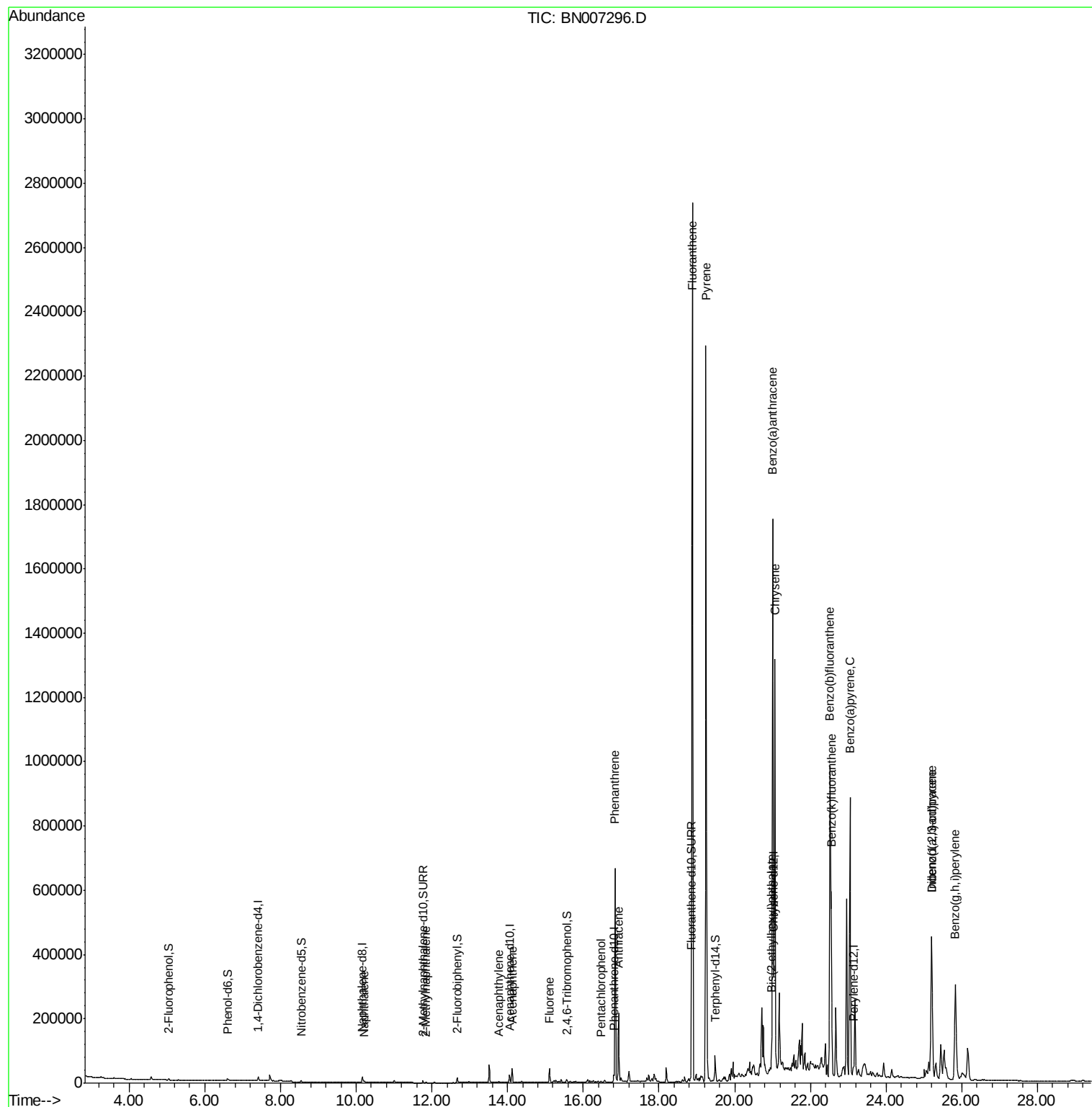
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082119\  
Data File : BN007296.D  
Acq On : 21 Aug 2019 18:46  
Operator : HP/JU  
Sample : K4440-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

Manual Integrations  
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Quant Time: Aug 22 05:33:24 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 20 18:52:43 2019  
Response via : Initial Calibration





#1

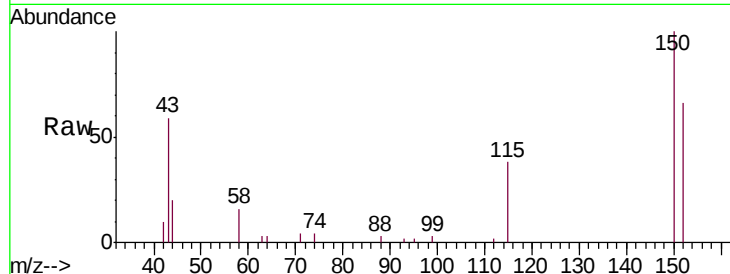
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.41 min Scan# 569  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.3 | 123.8 | 185.8 |
| 115     | 58.4  | 47.3  | 70.9  |

Manual Integrations  
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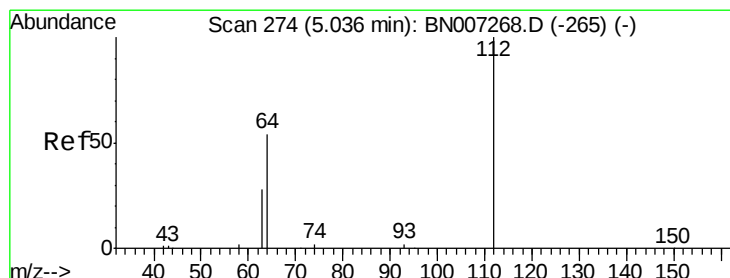
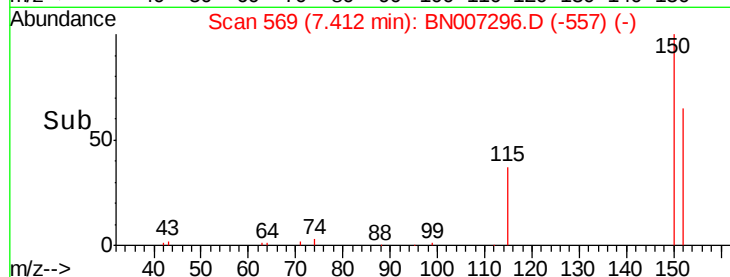
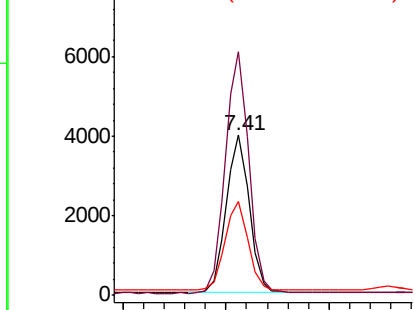


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

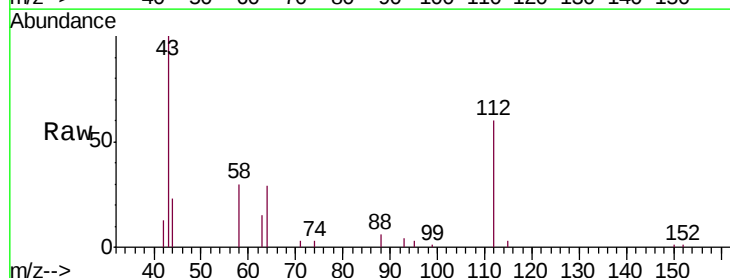
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol  
Concen: 0.249 ng  
RT: 5.04 min Scan# 275  
Delta R.T. 0.01 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 50.4  | 41.8  | 62.8  |
| 63      | 26.3  | 22.6  | 34.0  |

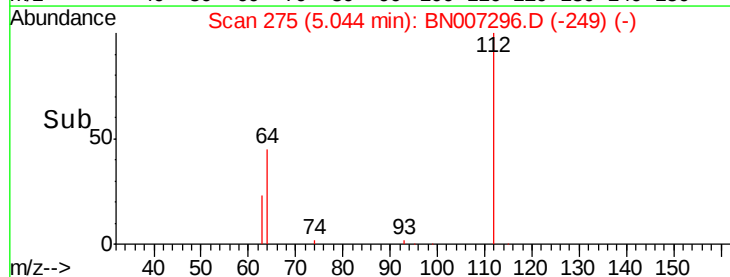
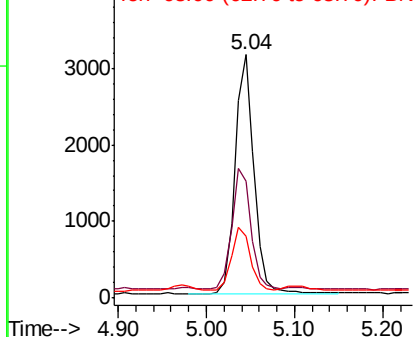


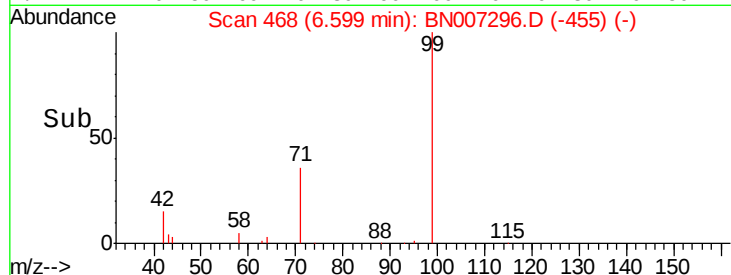
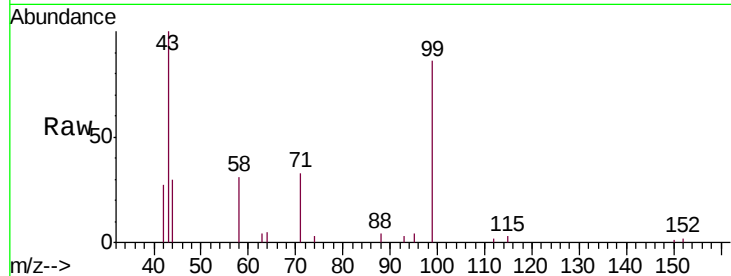
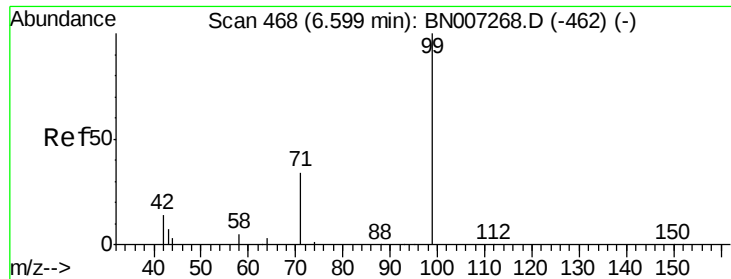
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.264 ng

RT: 6.60 min Scan# 468

Delta R.T. 0.00 min

Lab File: BN007296.D

Acq: 21 Aug 2019 18:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 5777  |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 21.6  | 14.3  | 21.5# |
| 71        | 35.1  | 27.3  | 40.9  |

Instrument :

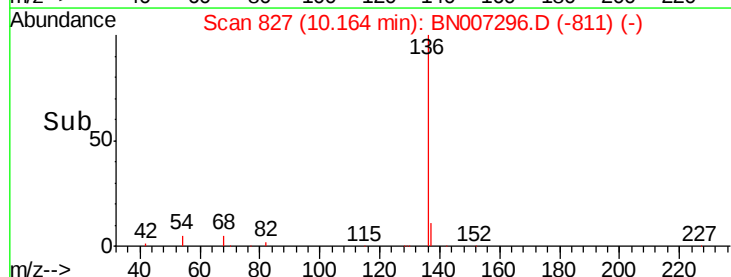
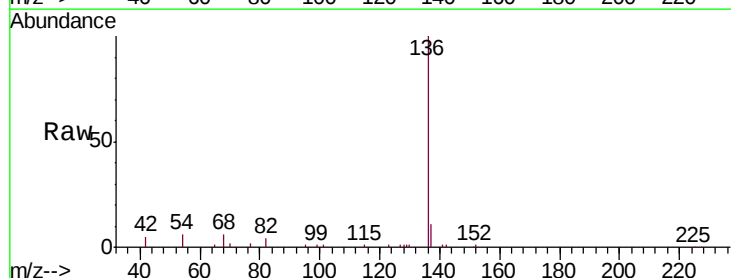
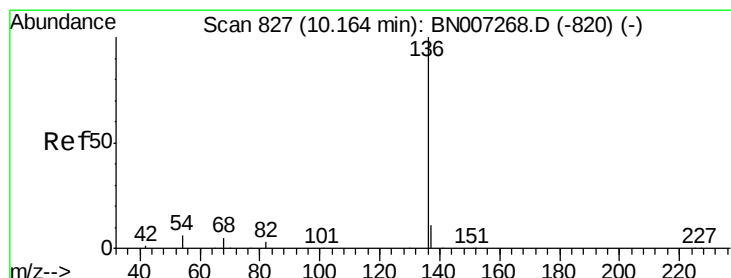
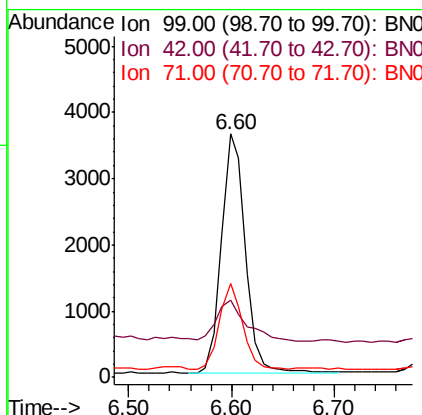
BNA\_N

ClientSampleId :

S302-J-1.5-2.0-082019

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#7

Naphthalene-d8

Concen: 0.400 ng

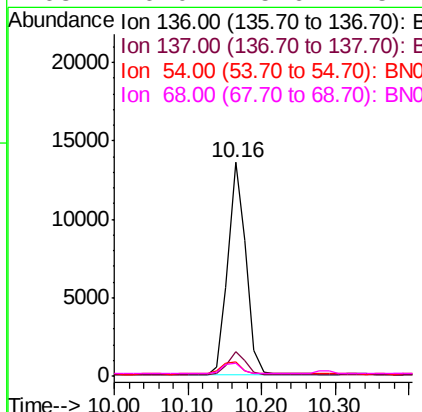
RT: 10.16 min Scan# 827

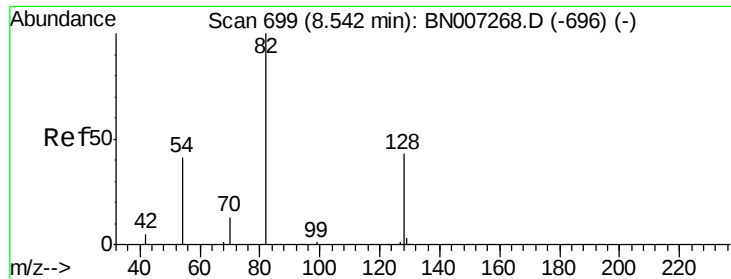
Delta R.T. 0.00 min

Lab File: BN007296.D

Acq: 21 Aug 2019 18:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 23081 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.3  | 9.1   | 13.7  |
| 54        | 6.4   | 5.9   | 8.9   |
| 68        | 6.0   | 5.6   | 8.4   |





#8

Nitrobenzene-d5

Concen: 0.232 ng

RT: 8.54 min Scan# 699

Delta R.T. 0.00 min

Lab File: BN007296.D

Acq: 21 Aug 2019 18:46

Instrument :

BNA\_N

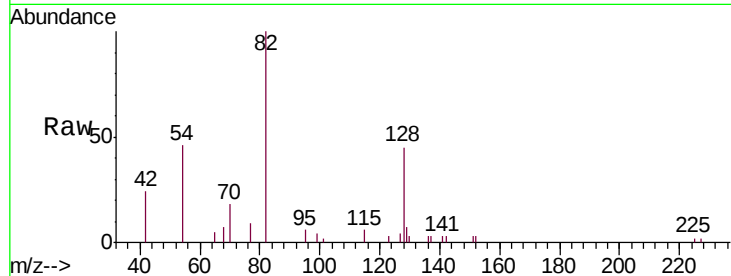
ClientSampleId :

S302-J-1.5-2.0-082019

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 82    | Resp: | 4102  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 44.6  | 35.8  | 53.6  |
| 54       | 45.8  | 34.7  | 52.1  |

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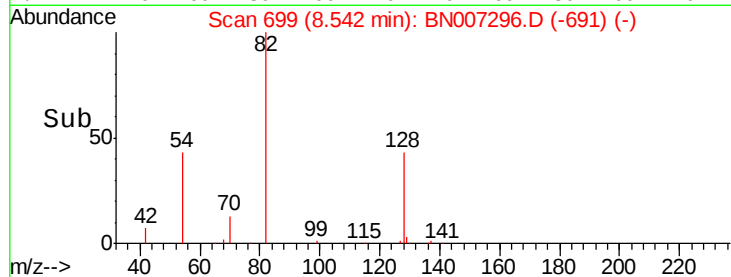


Abundance Ion 82.00 (81.70 to 82.70): BN007296.D (-691) (-)

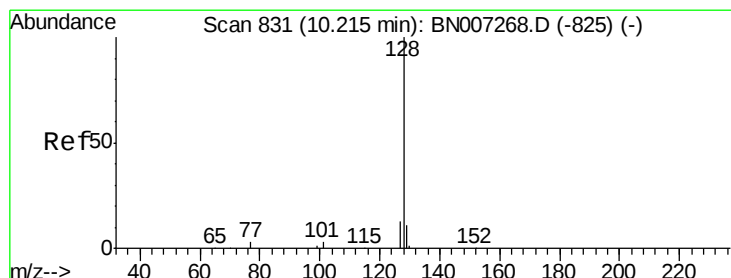
Ion 128.00 (127.70 to 128.70): BN007296.D (-691) (-)

Ion 54.00 (53.70 to 54.70): BN007296.D (-691) (-)

Time-->



Time-->



#9

Naphthalene

Concen: 0.061 ng

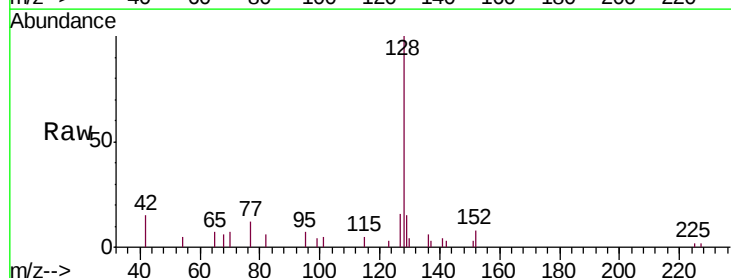
RT: 10.22 min Scan# 831

Delta R.T. 0.00 min

Lab File: BN007296.D

Acq: 21 Aug 2019 18:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 3959  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 14.7  | 9.1   | 13.7# |
| 127      | 15.8  | 10.6  | 16.0  |

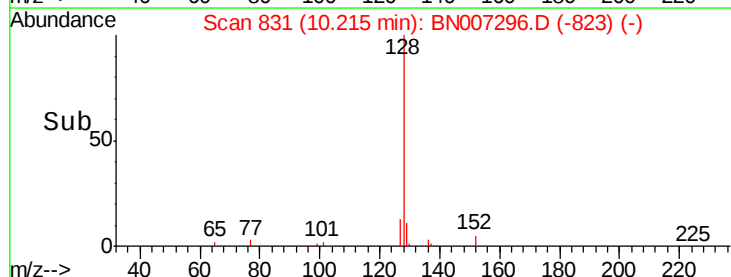


Abundance Ion 128.00 (127.70 to 128.70): BN007296.D (-823) (-)

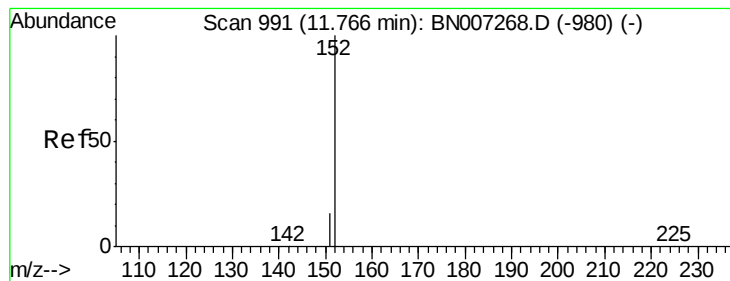
Ion 129.00 (128.70 to 129.70): BN007296.D (-823) (-)

Ion 127.00 (126.70 to 127.70): BN007296.D (-823) (-)

Time-->



Time-->



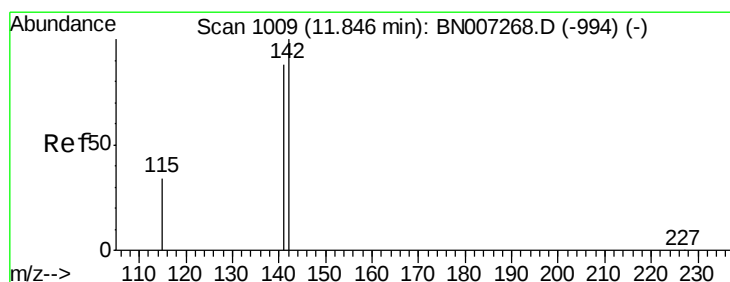
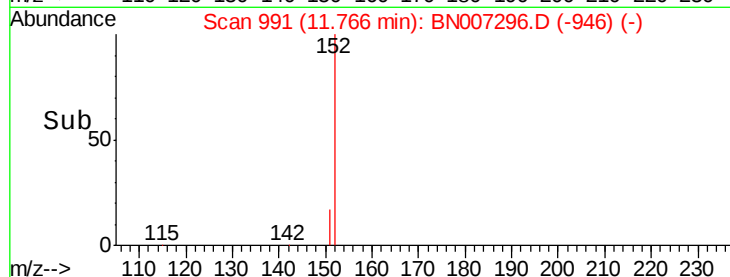
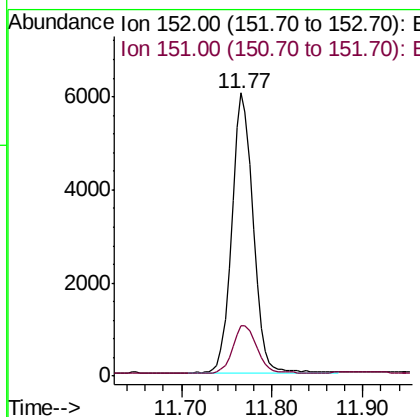
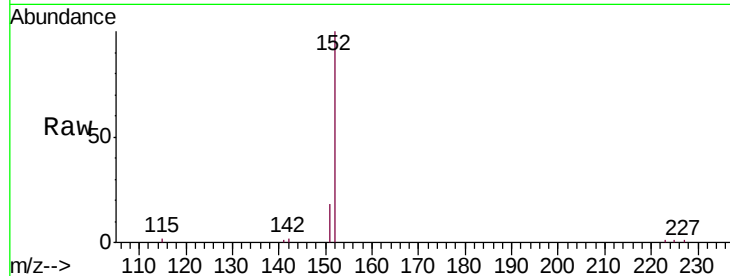
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.244 ng  
 RT: 11.77 min Scan# 991  
 Delta R.T. 0.00 min  
 Lab File: BN007296.D  
 Acq: 21 Aug 2019 18:46

Instrument :  
 BNA\_N  
 ClientSampleId :  
 S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.0  | 15.2  | 22.8  |

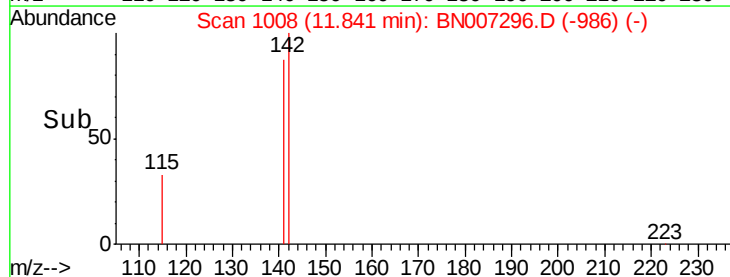
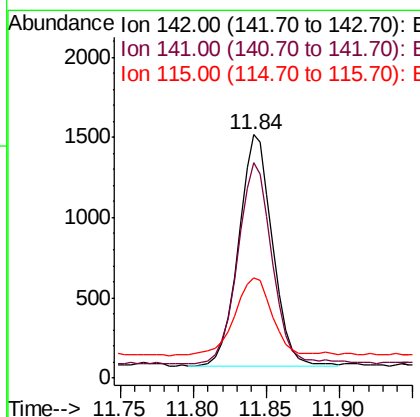
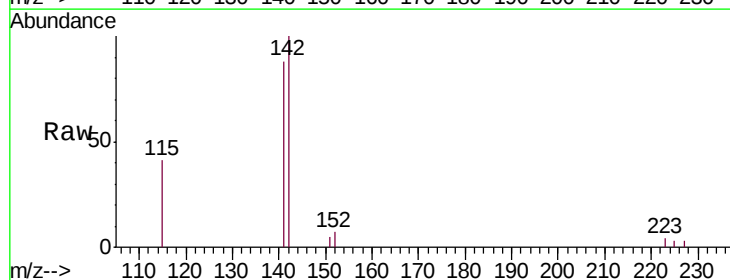
Manual Integrations  
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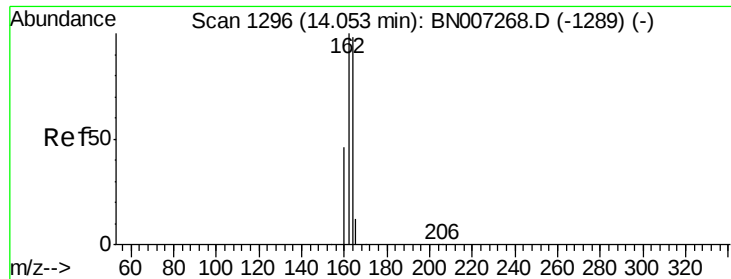
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#12  
 2-Methylnaphthalene  
 Concen: 0.052 ng  
 RT: 11.84 min Scan# 1008  
 Delta R.T. -0.00 min  
 Lab File: BN007296.D  
 Acq: 21 Aug 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.5  | 70.7  | 106.1 |
| 115     | 41.4  | 28.1  | 42.1  |





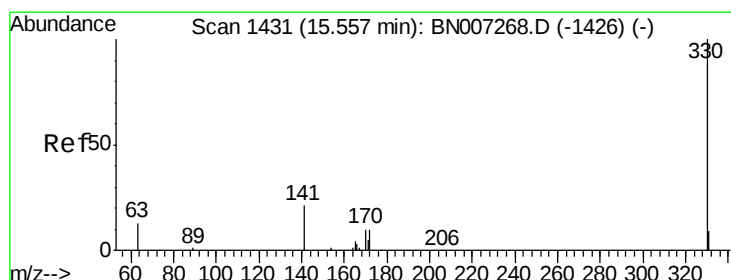
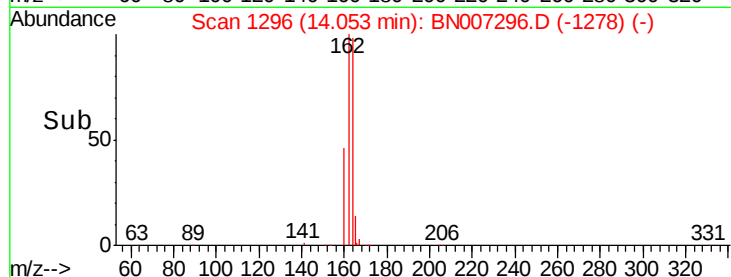
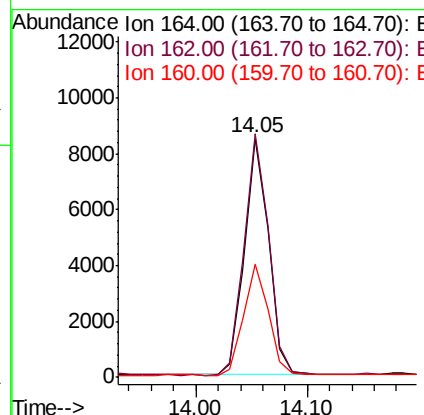
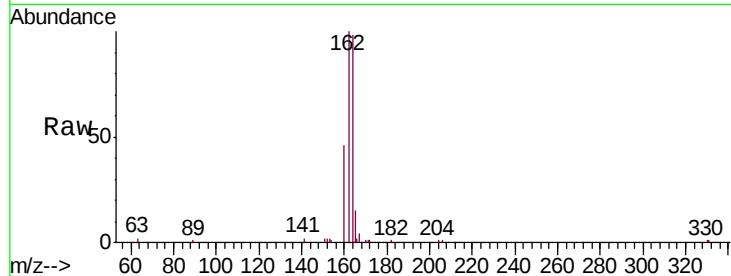
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Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.05 min Scan# 1296  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.8 | 82.0  | 123.0 |
| 160     | 47.2  | 38.2  | 57.4  |

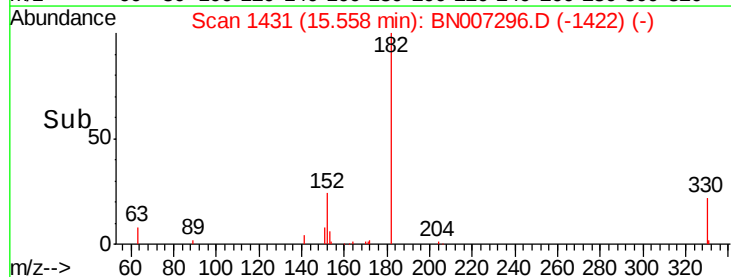
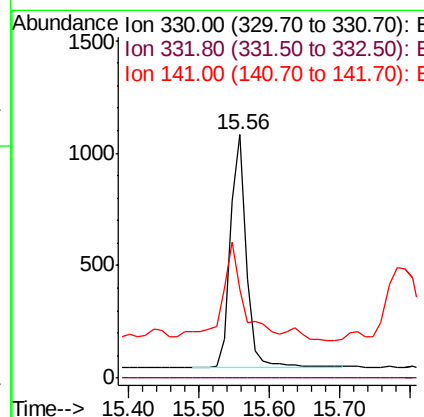
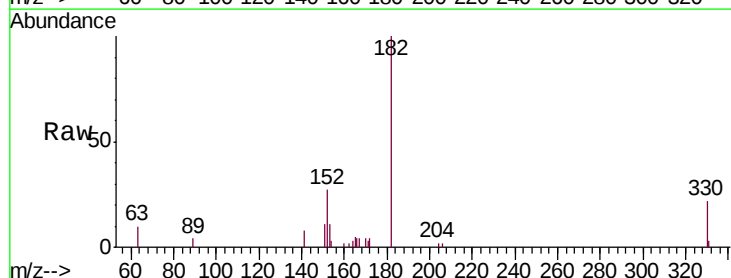
Manual Integrations  
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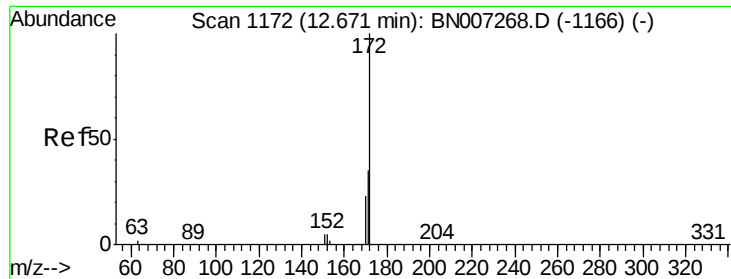
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#14  
2,4,6-Tribromophenol  
Concen: 0.237 ng  
RT: 15.56 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 0.0   | 0.0   | 0.0   |
| 141     | 44.5  | 30.3  | 45.5  |





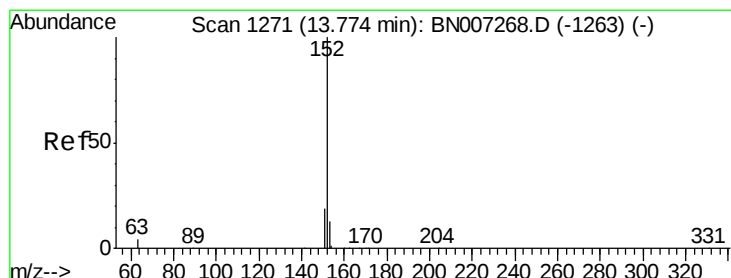
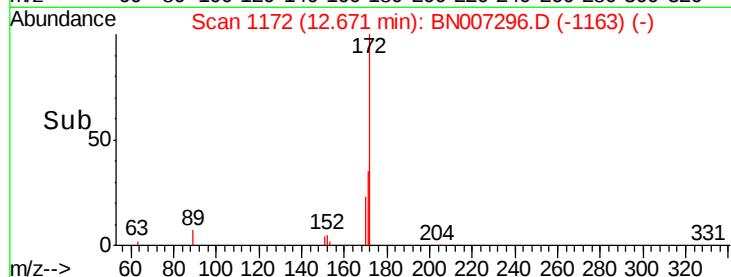
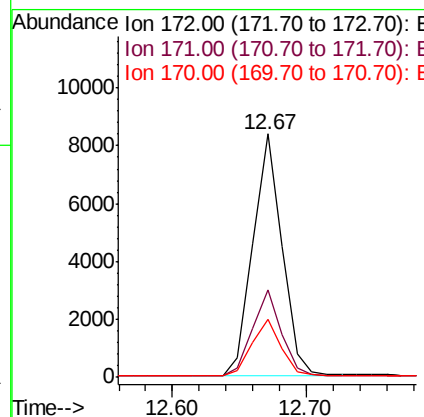
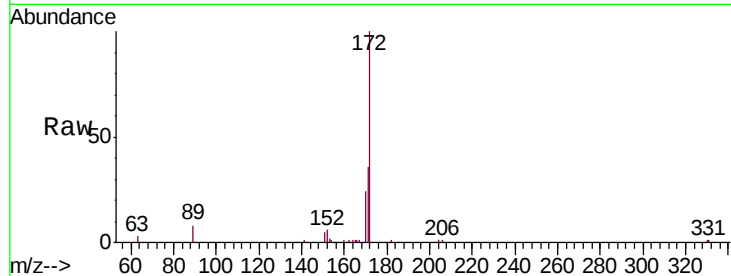
#15  
2-Fluorobiphenyl  
Concen: 0.234 ng  
RT: 12.67 min Scan# 1172  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 28.6  | 43.0  |
| 170     | 23.7  | 18.7  | 28.1  |

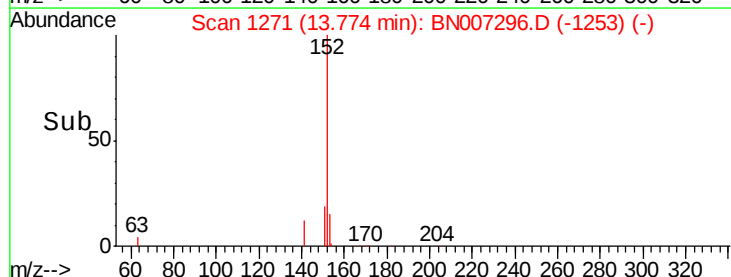
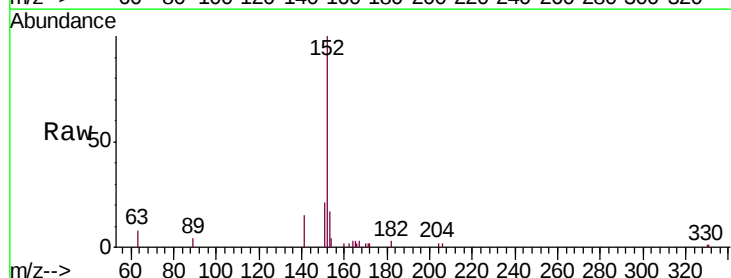
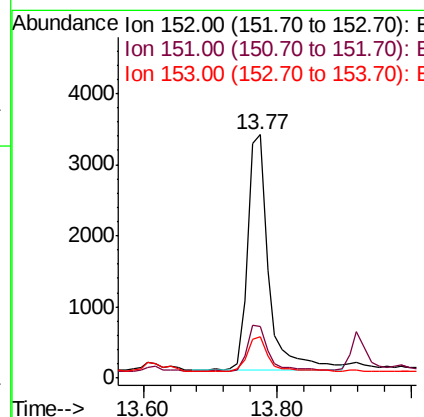
Manual Integrations  
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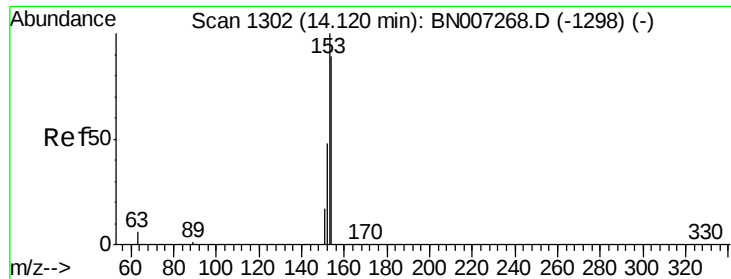
Jagrut  
8/26/2019 12:24:38 PM



#16  
Acenaphthylene  
Concen: 0.108 ng  
RT: 13.77 min Scan# 1271  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 15.4  | 23.2  |
| 153     | 15.0  | 10.1  | 15.1  |





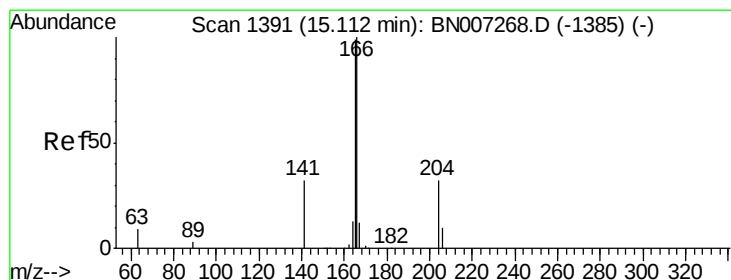
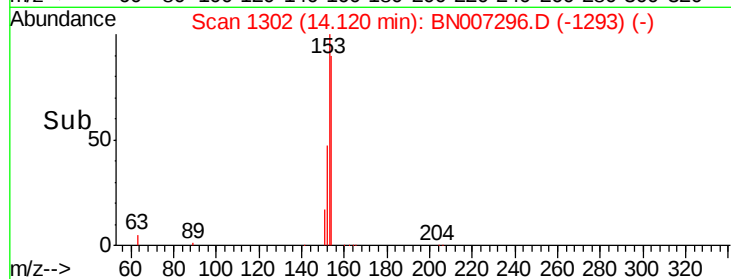
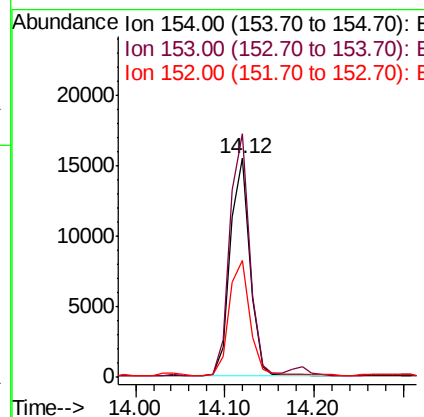
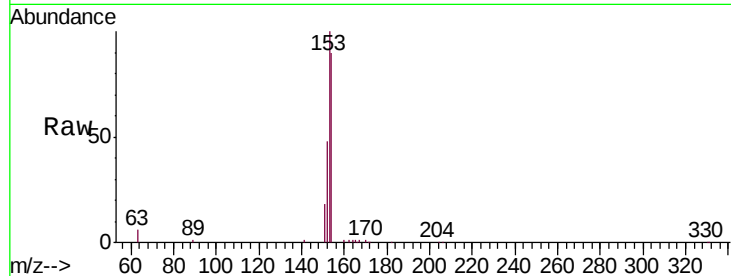
#17  
Acenaphthene  
Concen: 0.555 ng  
RT: 14.12 min Scan# 1302  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 111.9 | 89.9  | 134.9 |
| 152     | 55.6  | 43.9  | 65.9  |

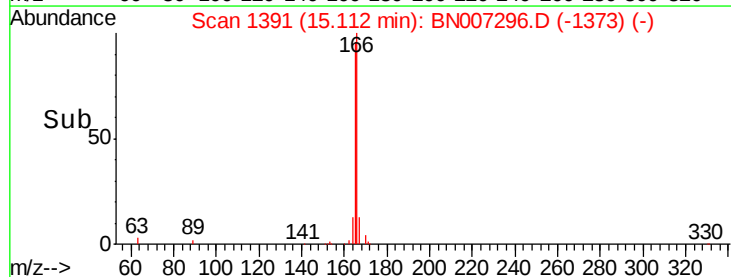
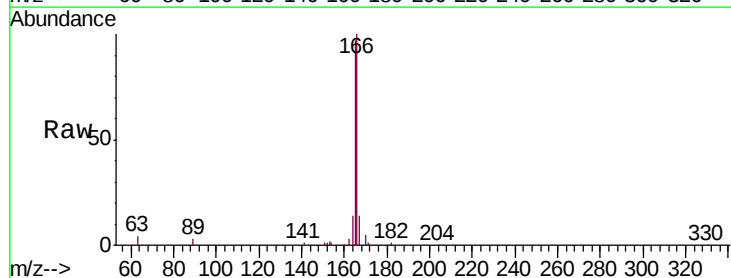
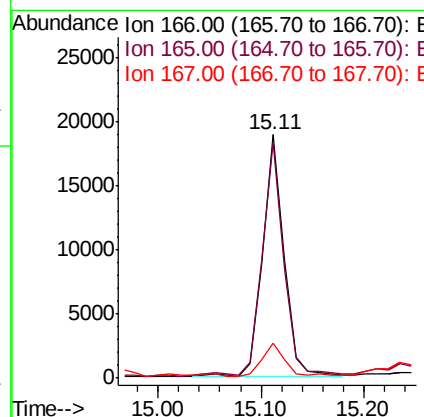
Manual Integrations  
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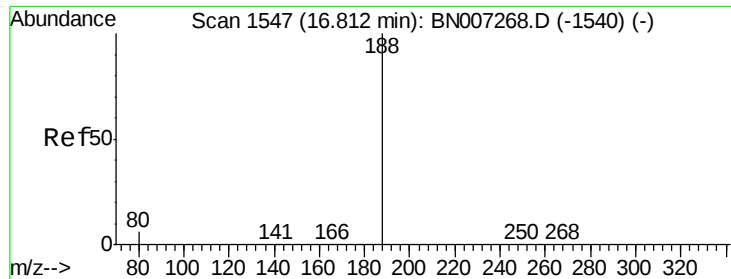
Jagrut  
8/26/2019 12:24:38 PM



#18  
Fluorene  
Concen: 0.485 ng  
RT: 15.11 min Scan# 1391  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.9  | 78.3  | 117.5 |
| 167     | 14.7  | 11.1  | 16.7  |





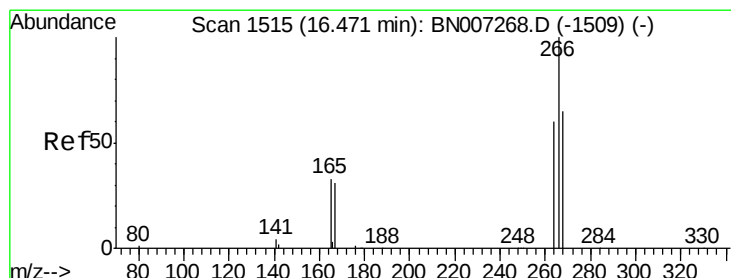
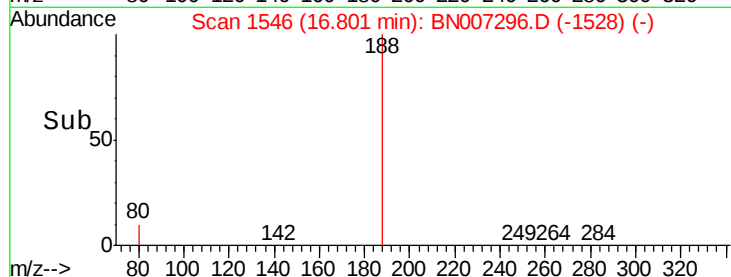
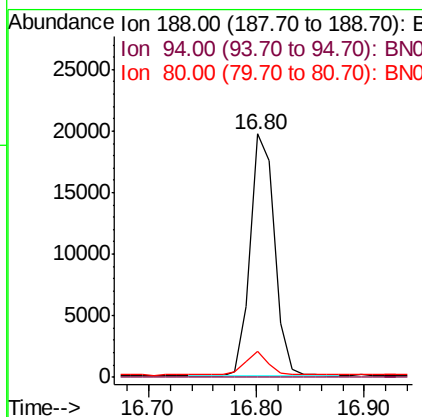
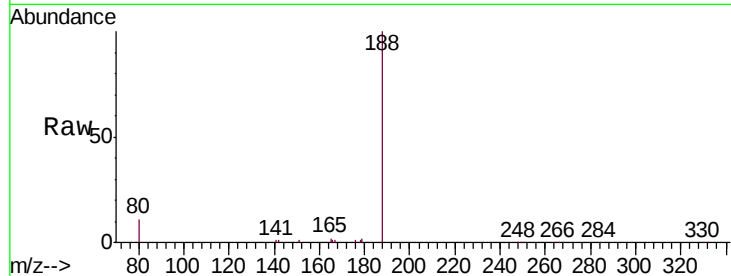
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.80 min Scan# 1546  
Delta R.T. -0.01 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 0.0   | 0.0        | 0.0   |
| 80      | 10.8  | 5.2        | 7.8#  |

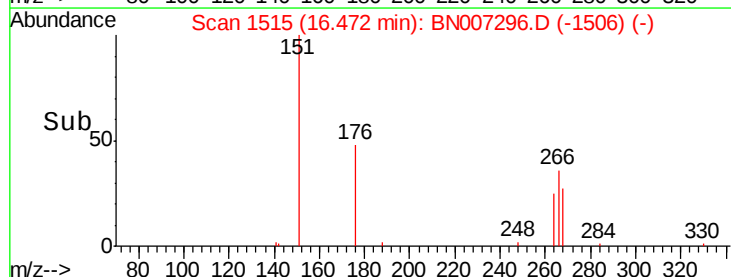
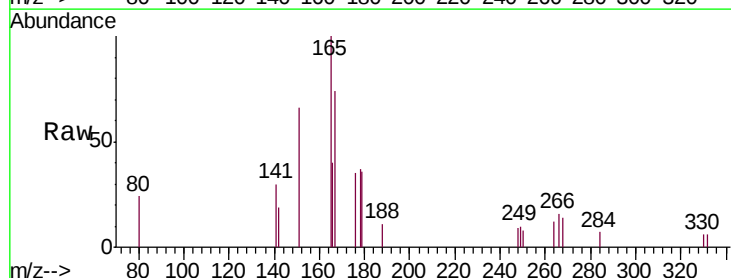
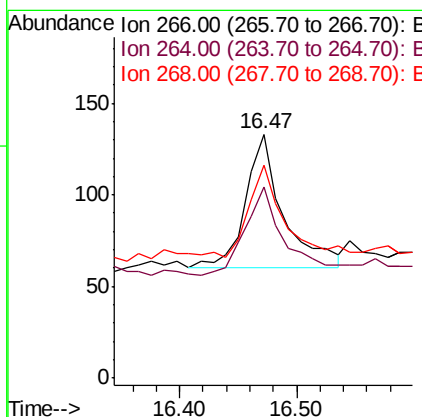
Manual Integrations  
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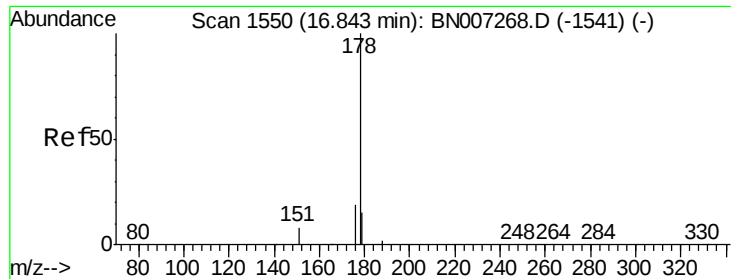
Jagrut  
8/26/2019 12:24:38 PM



#22  
Pentachlorophenol  
Concen: 0.020 ng  
RT: 16.47 min Scan# 1515  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 266     | 100   |            |       |
| 264     | 78.2  | 48.7       | 73.1# |
| 268     | 87.2  | 53.5       | 80.3# |





#23

Phenanthrene

Concen: 7.116 ng

RT: 16.84 min Scan# 1550

Delta R.T. 0.00 min

Lab File: BN007296.D

Acq: 21 Aug 2019 18:46

Instrument :

BNA\_N

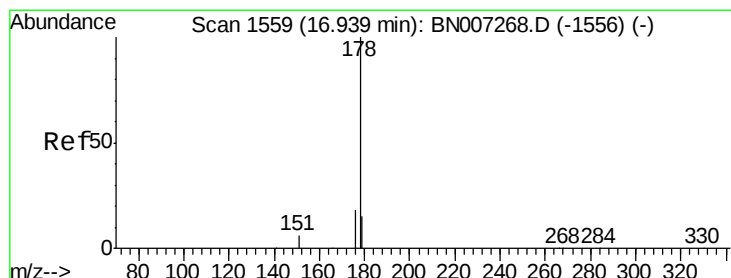
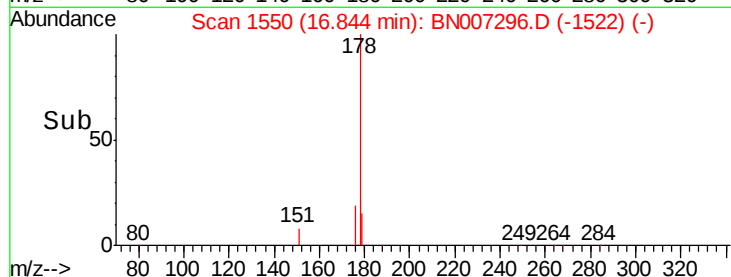
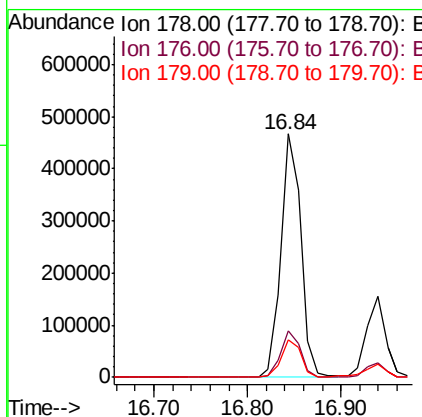
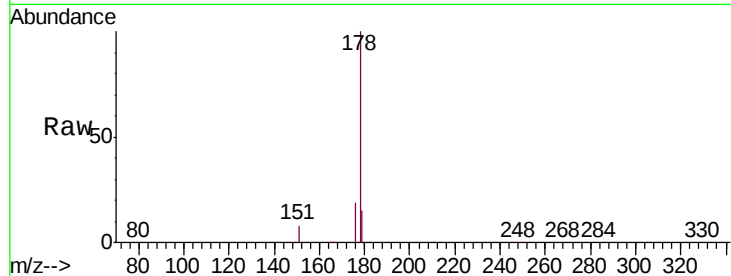
ClientSampleId :

S302-J-1.5-2.0-082019

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 690794 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.9  | 15.2  | 22.8   |
| 179       | 15.4  | 12.3  | 18.5   |

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#24

Anthracene

Concen: 2.388 ng

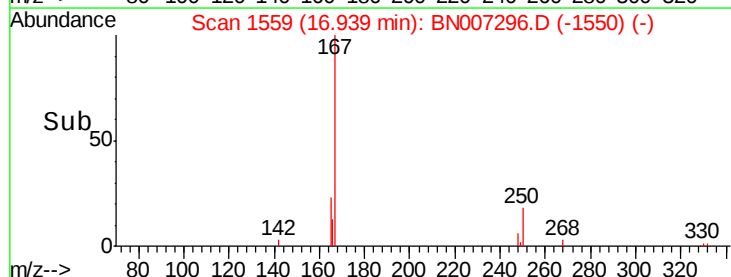
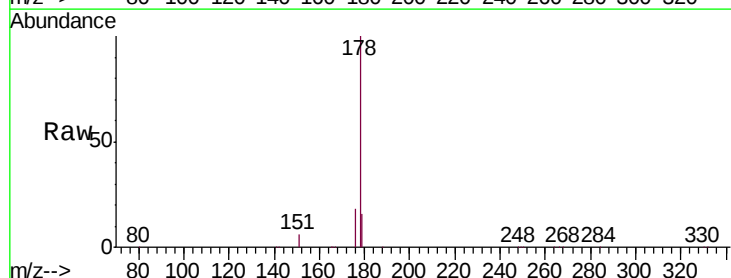
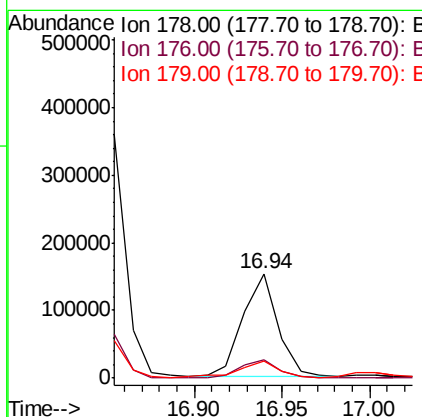
RT: 16.94 min Scan# 1559

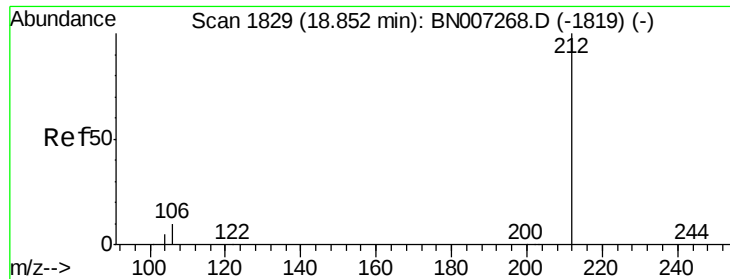
Delta R.T. 0.00 min

Lab File: BN007296.D

Acq: 21 Aug 2019 18:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 208734 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.1  | 14.3  | 21.5   |
| 179       | 17.0  | 12.3  | 18.5   |





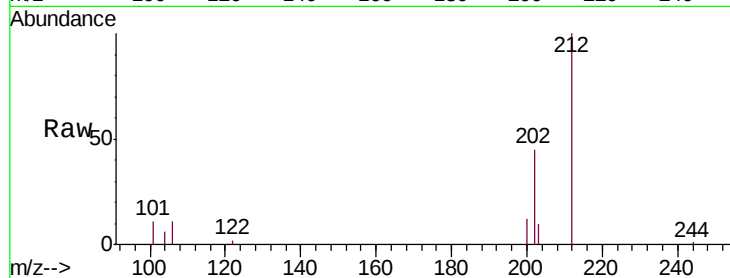
#25  
Fluoranthene-d10  
Concen: 0.232 ng  
RT: 18.85 min Scan# 1829  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 212     | 100   | 22823 |       |       |
| 106     | 10.5  | 8.2   | 12.4  |       |
| 104     | 6.4   | 4.7   | 7.1   |       |

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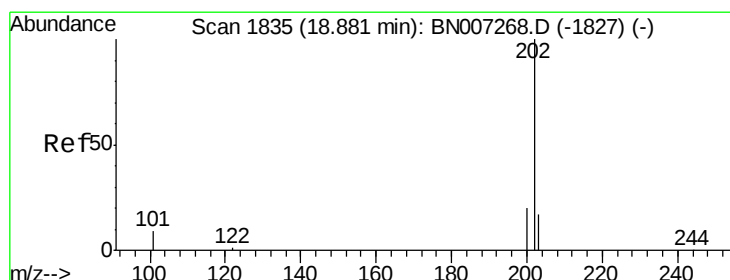
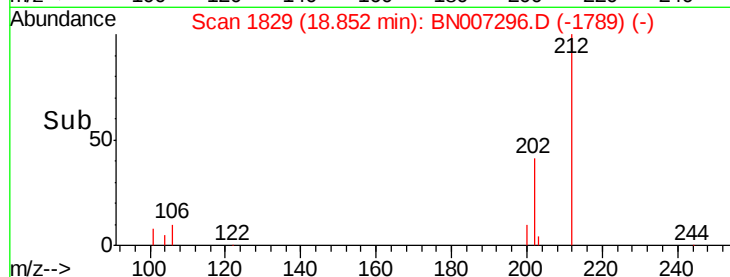
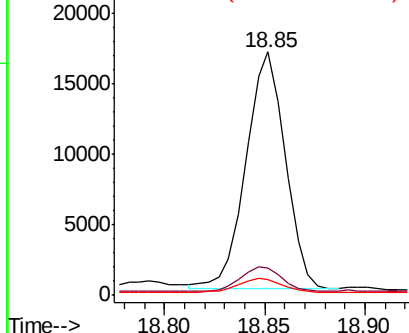


Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26  
Fluoranthene  
Concen: 21.476 ng  
RT: 18.88 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

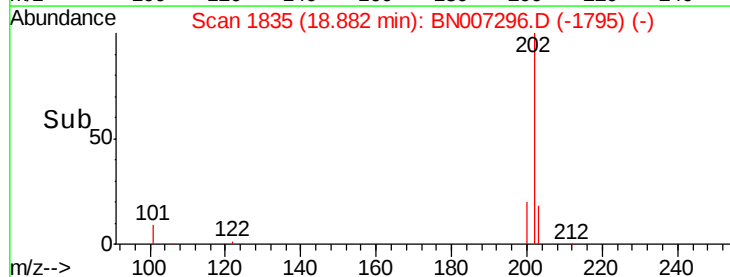
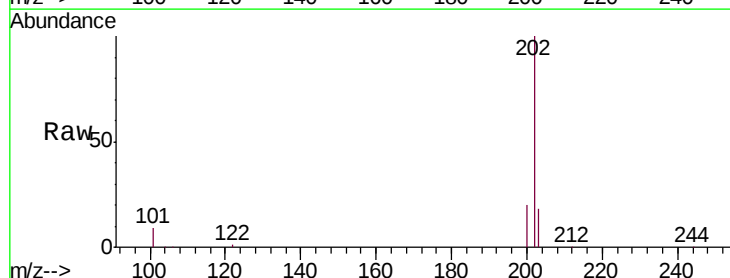
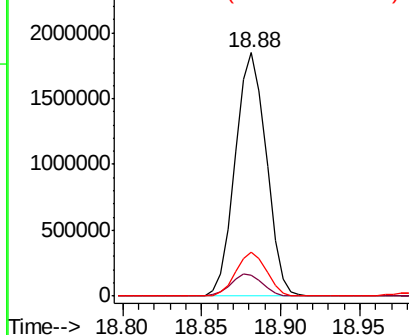
| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 202     | 100   | 2525141 |       |       |
| 101     | 9.2   | 7.2     | 10.8  |       |
| 203     | 17.7  | 13.8    | 20.6  |       |

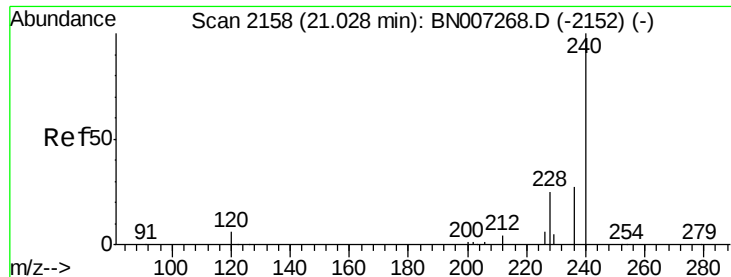
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





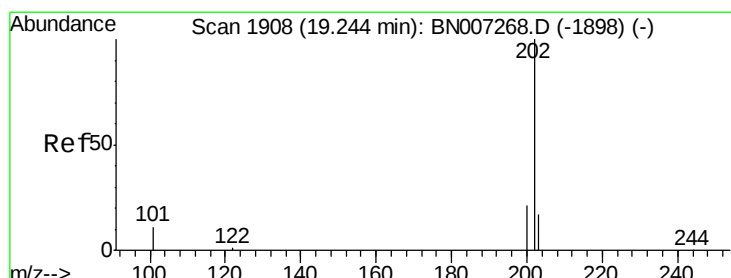
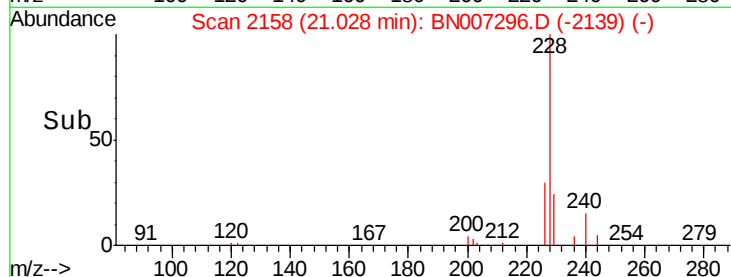
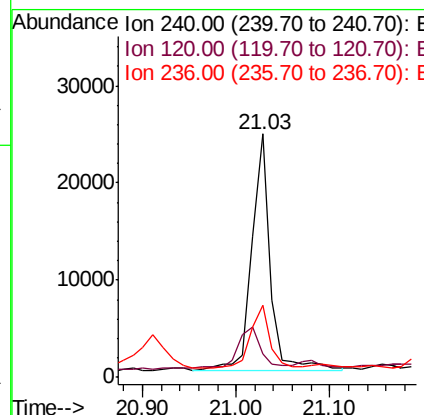
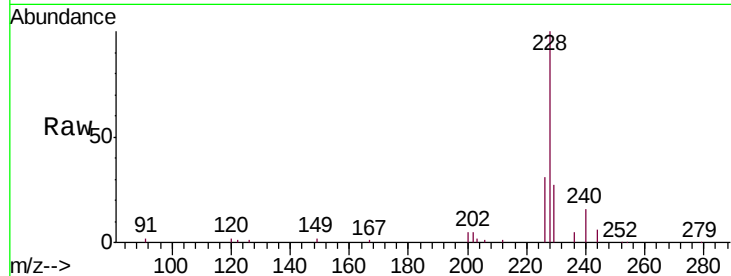
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.03 min Scan# 2158  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.8   | 5.6   | 8.4#  |
| 236     | 29.5  | 21.6  | 32.4  |

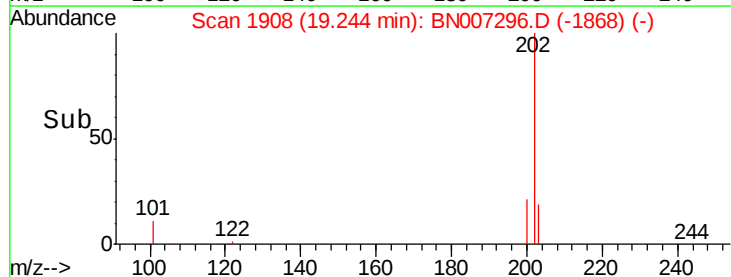
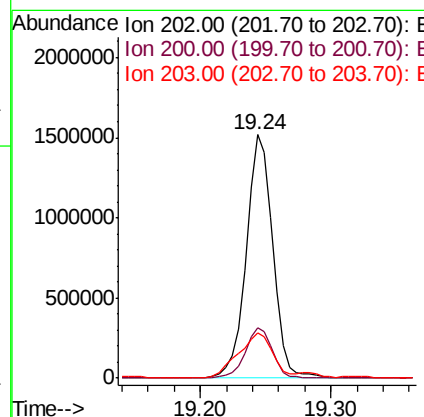
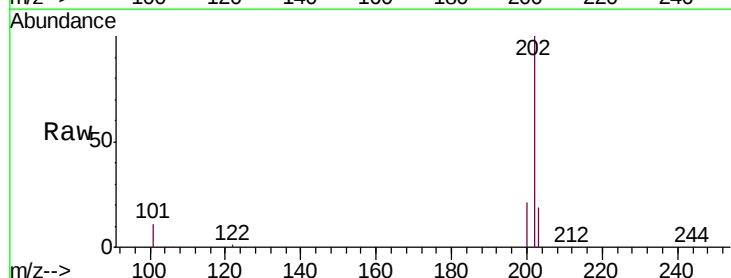
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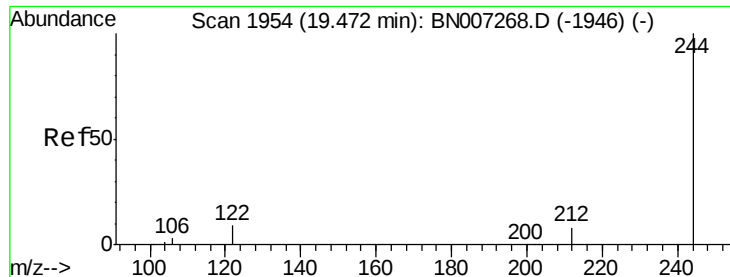
Jagrut  
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#28  
Pyrene  
Concen: 17.247 ng  
RT: 19.24 min Scan# 1908  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 16.7  | 25.1  |
| 203     | 24.1  | 13.9  | 20.9# |





#29

Terphenyl-d14

Concen: 0.217 ng

RT: 19.47 min Scan# 1953

Delta R.T. -0.00 min

Lab File: BN007296.D

Acq: 21 Aug 2019 18:46

Instrument :

BNA\_N

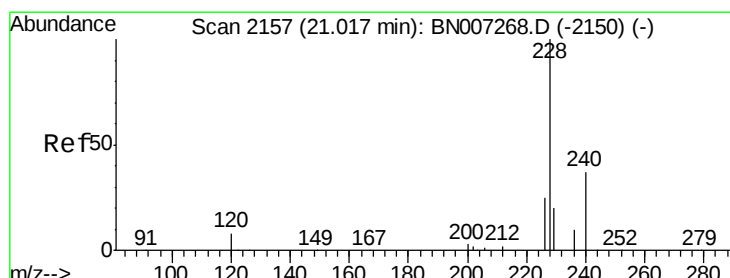
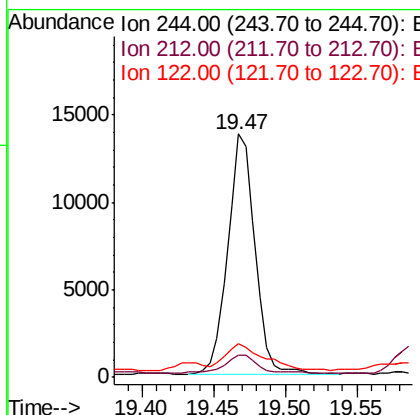
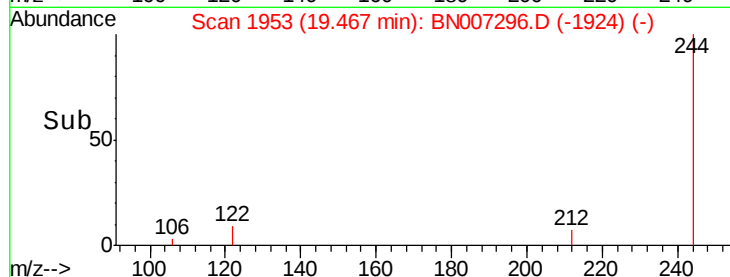
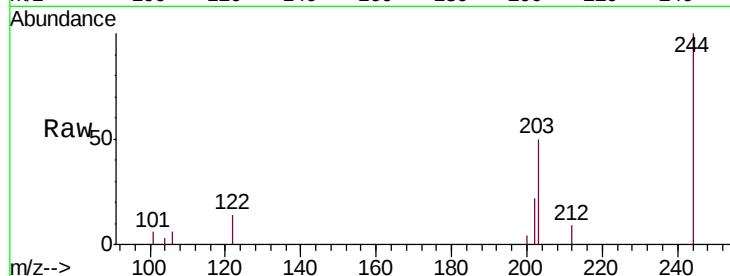
ClientSampleId :

S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.3   | 6.5   | 9.7   |
| 122     | 13.8  | 7.9   | 11.9  |

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#30

Benzo(a)anthracene

Concen: 13.150 ng

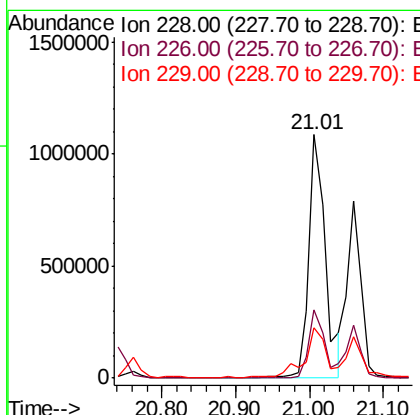
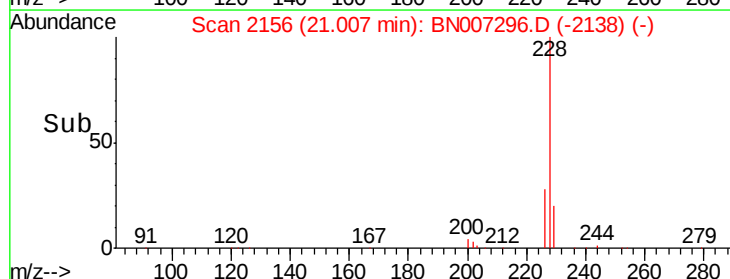
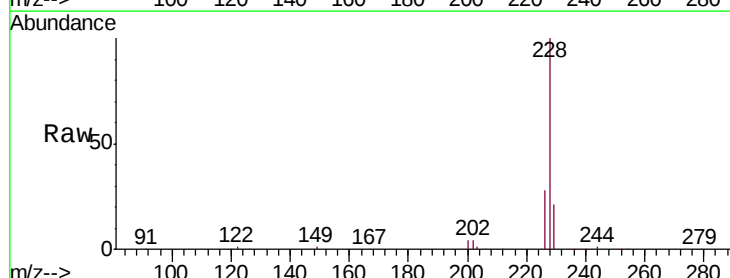
RT: 21.01 min Scan# 2156

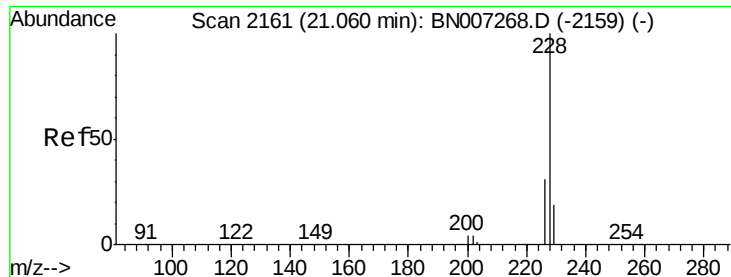
Delta R.T. -0.01 min

Lab File: BN007296.D

Acq: 21 Aug 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 20.6  | 30.8  |
| 229     | 20.6  | 16.9  | 25.3  |





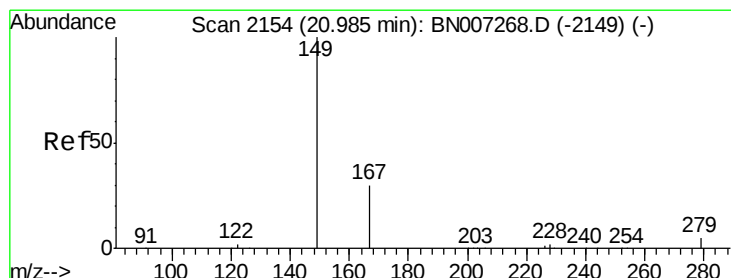
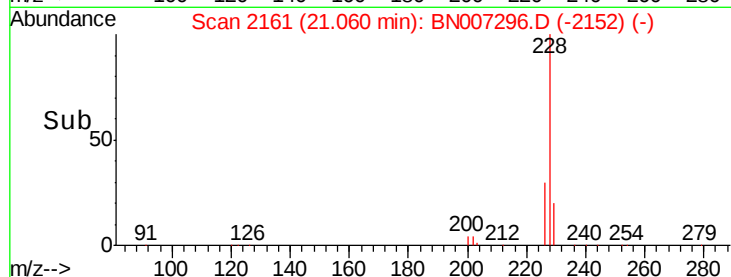
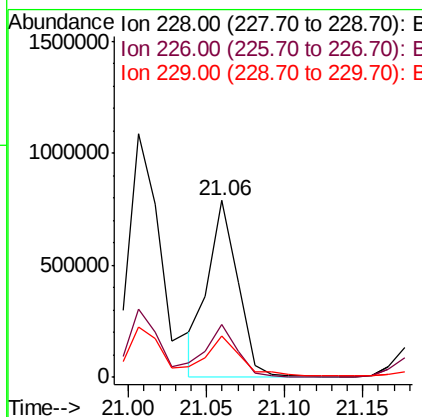
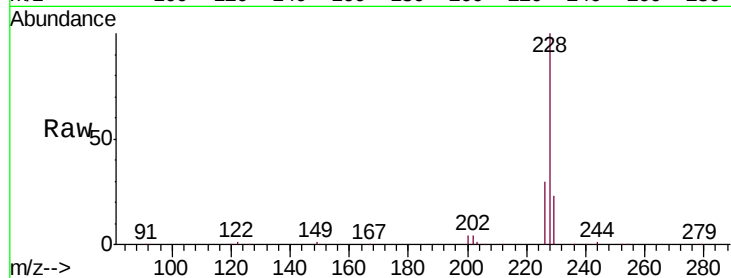
#31  
Chrysene  
Concen: 8.150 ng  
RT: 21.06 min Scan# 2161  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 228     | 100  |       |       |       |
| 226     | 30.1 | 24.6  | 36.8  |       |
| 229     | 23.3 | 15.6  | 23.4  |       |

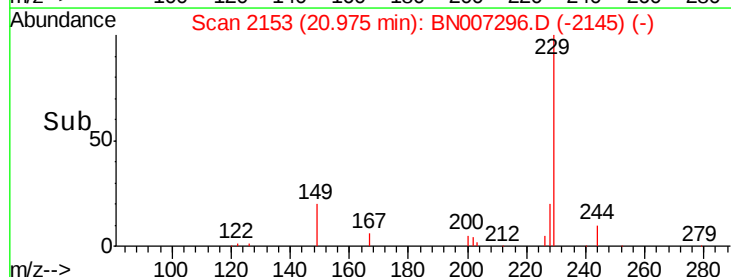
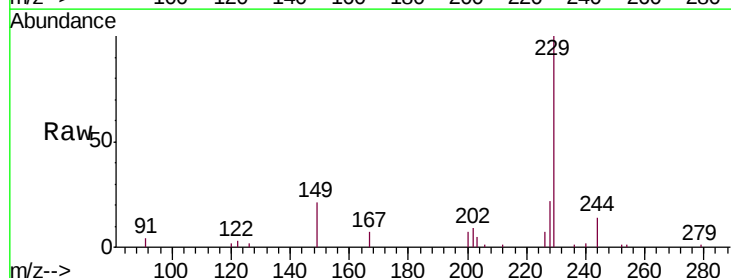
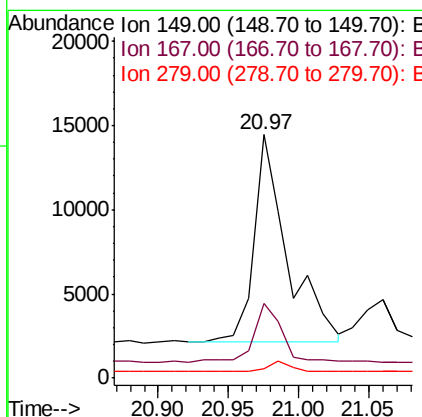
Manual Integrations  
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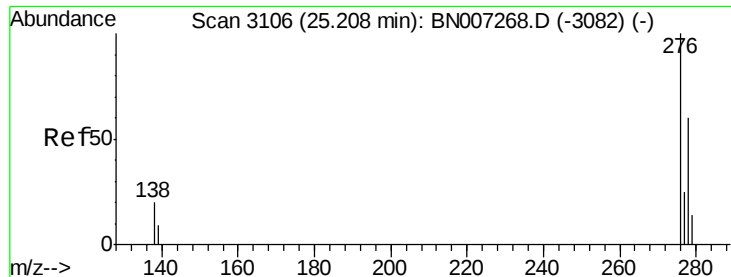
Jagrut  
8/26/2019 12:24:38 PM



#32  
Bis(2-ethylhexyl)phthalate  
Concen: 0.407 ng  
RT: 20.97 min Scan# 2153  
Delta R.T. -0.01 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 149     | 100  |       |       |       |
| 167     | 24.5 | 23.8  | 35.6  |       |
| 279     | 3.7  | 3.8   | 5.8#  |       |





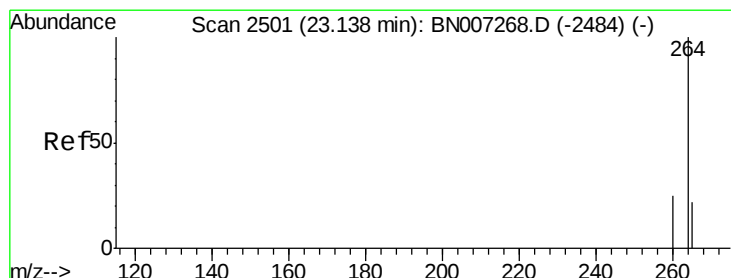
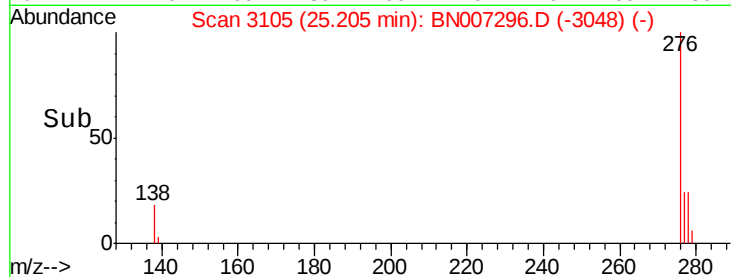
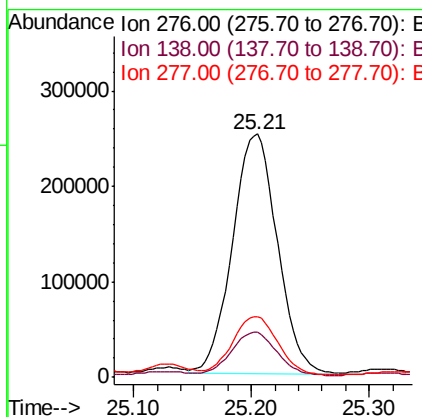
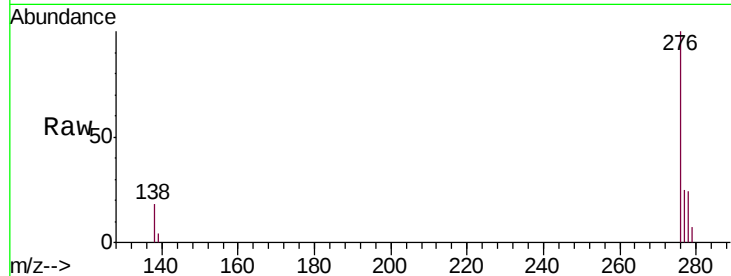
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 4.368 ng  
RT: 25.21 min Scan# 3105  
Delta R.T. -0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.2  | 17.1  | 25.7  |
| 277     | 24.6  | 20.1  | 30.1  |

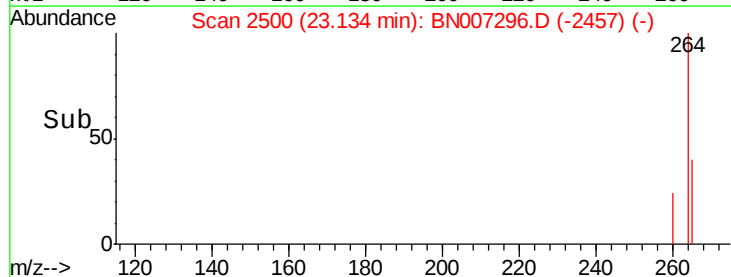
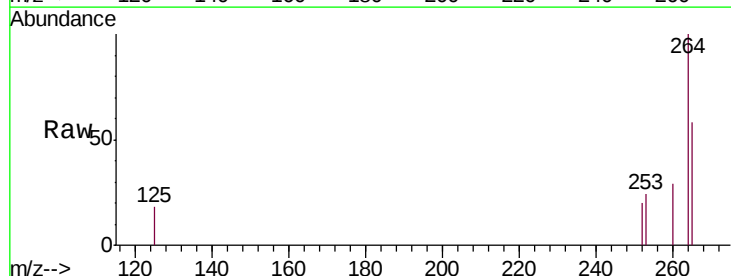
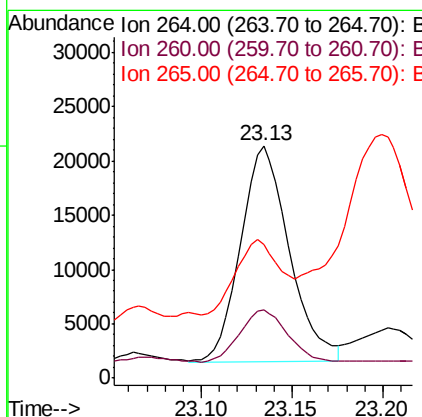
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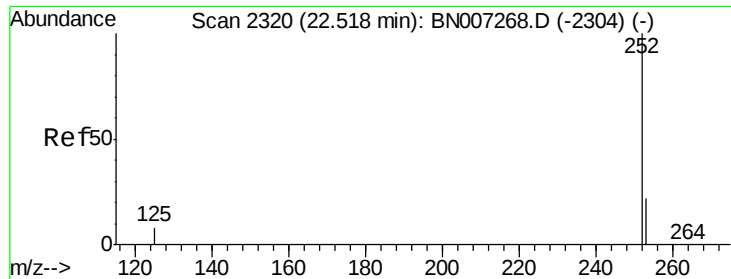
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#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.13 min Scan# 2500  
Delta R.T. -0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 29.5  | 20.1  | 30.1  |
| 265     | 57.6  | 29.0  | 43.6# |





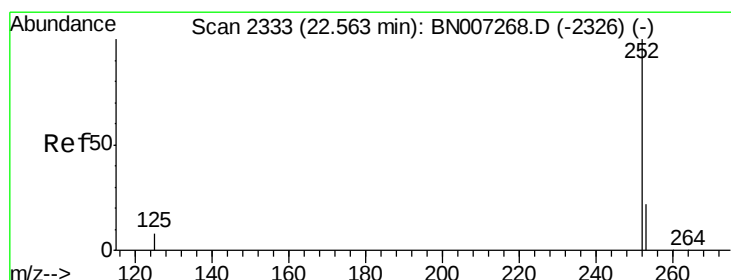
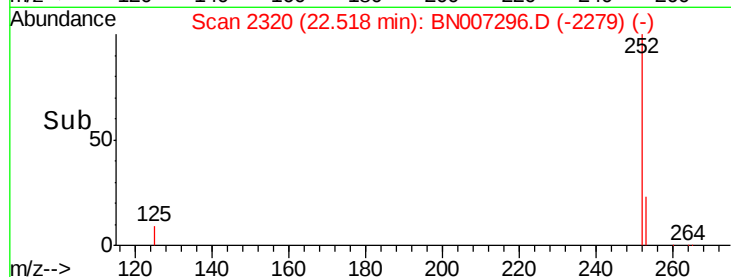
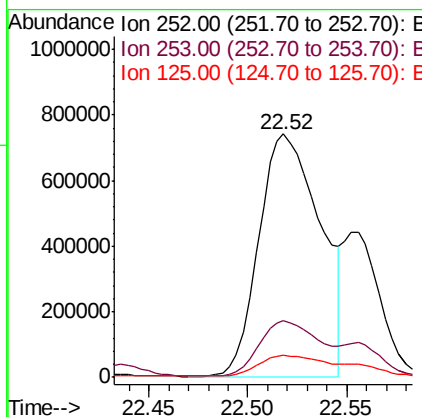
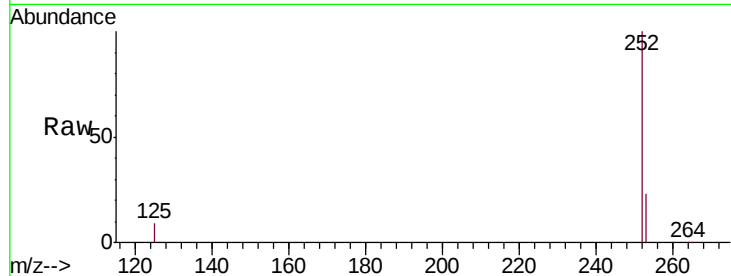
#35  
Benzo(b)fluoranthene  
Concen: 11.575 ng  
RT: 22.52 min Scan# 2320  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 18.5  | 27.7  |
| 125     | 9.0   | 7.8   | 11.6  |

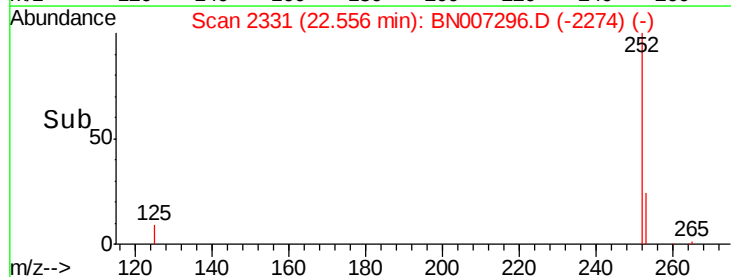
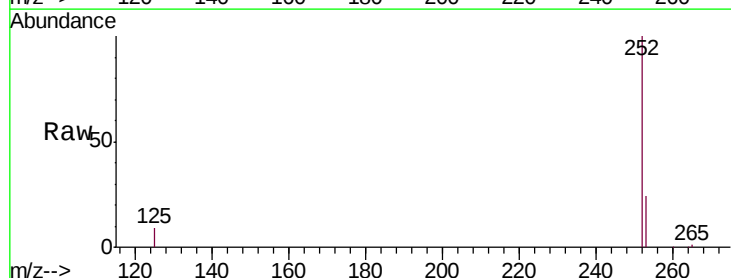
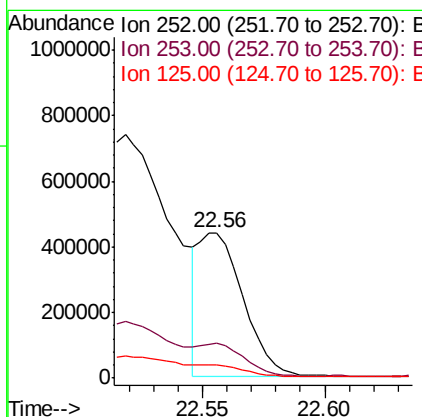
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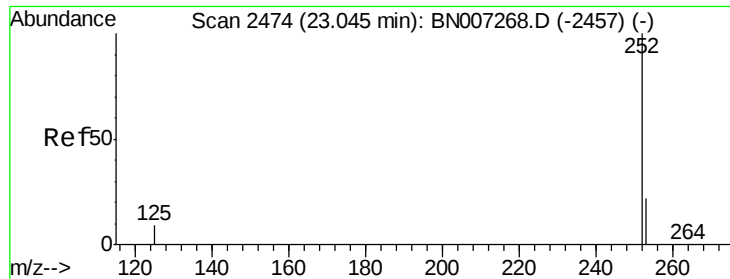
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#36  
Benzo(k)fluoranthene  
Concen: 4.110 ng m  
RT: 22.56 min Scan# 2331  
Delta R.T. -0.01 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 18.4  | 27.6  |
| 125     | 9.4   | 8.0   | 12.0  |





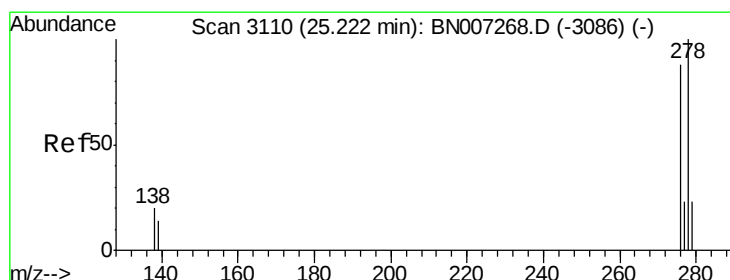
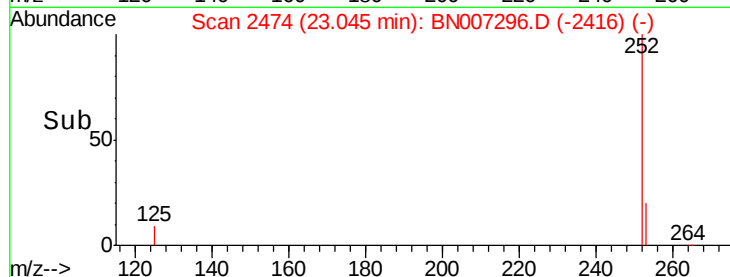
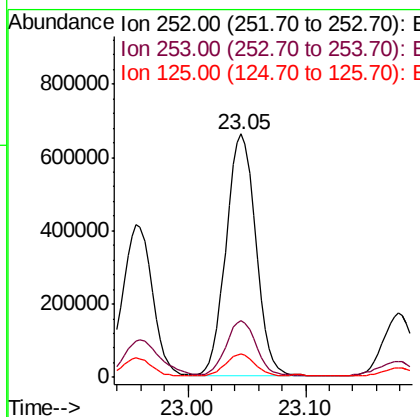
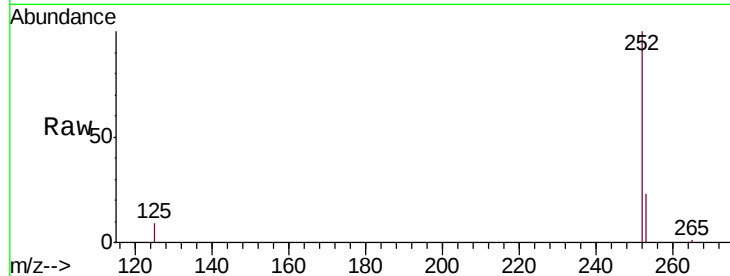
#37  
Benzo(a)pyrene  
Concen: 9.298 ng  
RT: 23.05 min Scan# 2474  
Delta R.T. 0.00 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Instrument :  
BNA\_N  
ClientSampleId :  
S302-J-1.5-2.0-082019

Tot Ion:252 Resp: 1153631  
Ion Ratio Lower Upper  
252 100  
253 23.4 18.7 28.1  
125 9.4 8.7 13.1

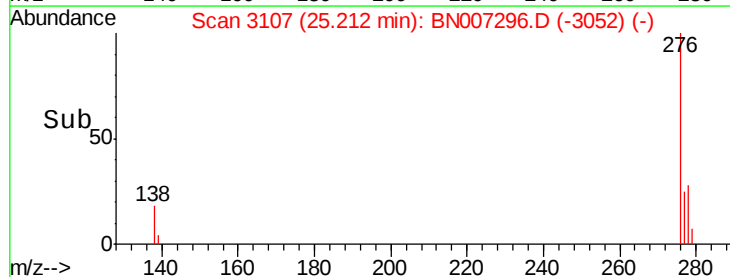
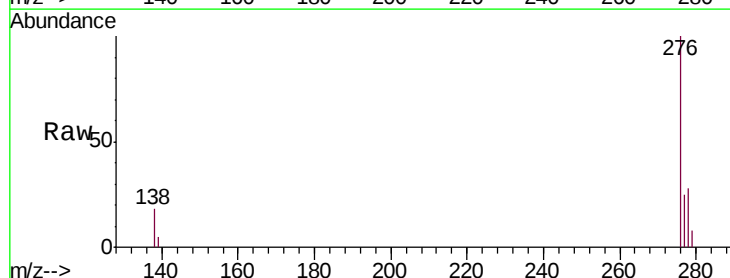
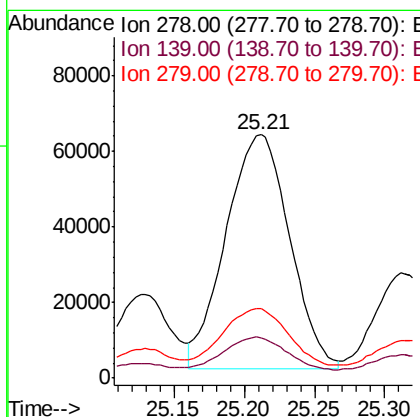
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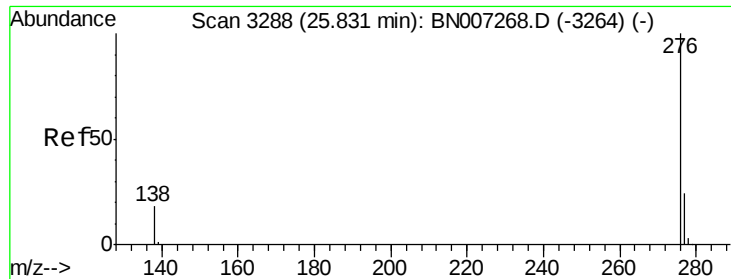
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#38  
Dibenzo(a,h)anthracene  
Concen: 1.499 ng  
RT: 25.21 min Scan# 3107  
Delta R.T. -0.01 min  
Lab File: BN007296.D  
Acq: 21 Aug 2019 18:46

Tgt Ion:278 Resp: 195329  
Ion Ratio Lower Upper  
278 100  
139 16.6 11.8 17.8  
279 28.4 19.8 29.6





#39

Benzo(a,h,i)perylene

Concen: 4.632 ng

RT: 25.83 min Scan# 3288

Delta R.T. 0.00 min

Lab File: BN007296.D

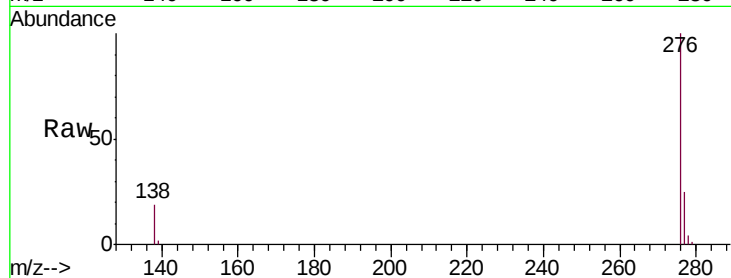
Acq: 21 Aug 2019 18:46

Instrument :

BNA\_N

ClientSampleId :

S302-J-1.5-2.0-082019



| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.6  | 19.5  | 29.3  |
| 138     | 18.5  | 15.3  | 22.9  |

Manual Integrations  
APPROVED

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