

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112219\  
 Data File : BF117942.D  
 Acq On : 23 Nov 2019 2:19  
 Operator : JU  
 Sample : K5904-19RX  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 14-(2-4)RX

Manual Integrations  
 APPROVED

mohammad  
 11/25/2019 8:19:40 AM

Quant Time: Nov 23 04:14:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 13 18:36:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.90  | 152  | 219584   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.19  | 136  | 854467   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 9.95  | 164  | 405710   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.44 | 188  | 757219   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 14.09 | 240  | 378127   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.60 | 264  | 390930   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.52  | 112  | 372258   | 30.01  | ng    | -0.02    |
| 7) Phenol-d6                   | 6.53  | 99   | 1271082  | 84.95  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.47  | 82   | 885095   | 61.58  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.74 | 330  | 100250   | 23.34  | ng    | -0.03    |
| 45) 2-Fluorobiphenyl           | 9.27  | 172  | 1715149  | 75.84  | ng    | -0.02    |
| 79) Terphenyl-d14              | 13.03 | 244  | 1476932  | 71.38  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.54  | 94   | 37265    | 2.397  | ng    | 94       |
| 50) Dimethylphthalate          | 9.66  | 163  | 364274   | 12.804 | ng    | 98       |
| 71) Phenanthrene               | 11.47 | 178  | 184326   | 4.842  | ng    | 97       |
| 78) Pyrene                     | 12.89 | 202  | 177451   | 5.807  | ng    | 97       |
| 81) Benzo(a)anthracene         | 14.08 | 228  | 74736    | 2.991  | ng    | 96       |
| 83) Chrysene                   | 14.12 | 228  | 72800    | 3.007  | ng    | 96       |
| 84) Bis(2-ethylhexyl)phthalate | 14.07 | 149  | 45813    | 2.879  | ng    | 100      |
| 86) Indeno(1,2,3-cd)pyrene     | 17.11 | 276  | 42881    | 2.081  | ng    | 92       |
| 88) Benzo(b)fluoranthene       | 15.14 | 252  | 85510m   | 3.367  | ng    |          |
| 90) Benzo(a)pyrene             | 15.53 | 252  | 55961    | 2.506  | ng    | 97       |
| 92) Benzo(g,h,i)perylene       | 17.57 | 276  | 41324    | 2.158  | ng    | 96       |

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

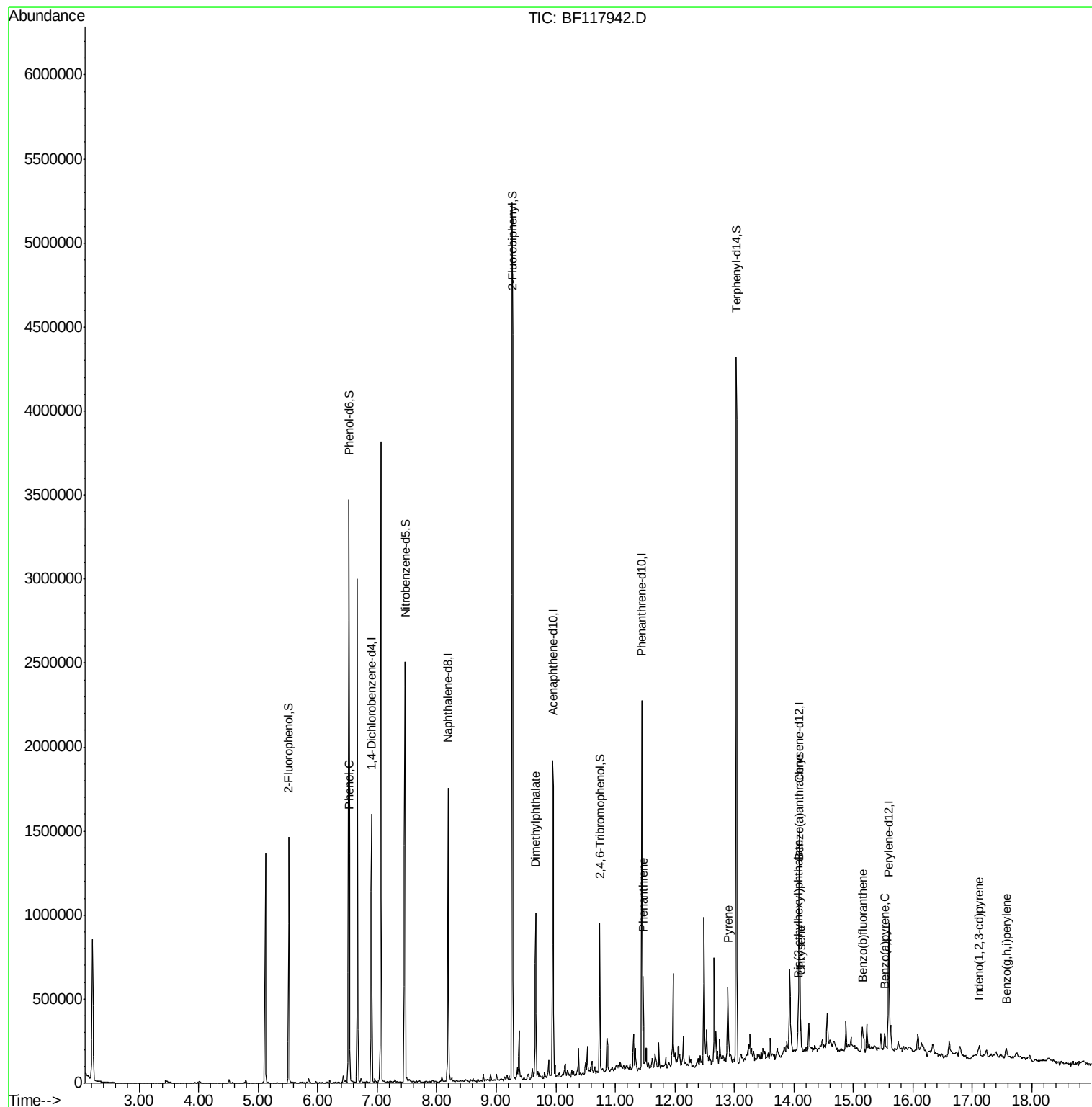
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112219\  
Data File : BF117942.D  
Acq On : 23 Nov 2019 2:19  
Operator : JU  
Sample : K5904-19RX  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

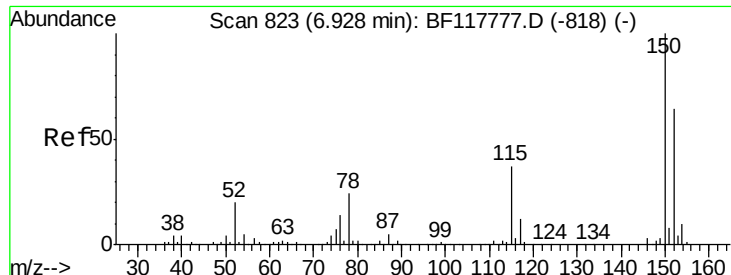
Instrument :  
BNA\_F  
ClientSampleId :  
14-(2-4)RX

Quant Time: Nov 23 04:14:01 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 13 18:36:07 2019  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
11/25/2019 8:19:40 AM





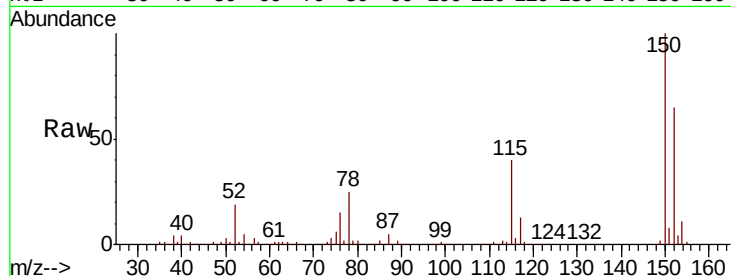
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.90 min Scan# 819  
 Delta R.T. -0.02 min  
 Lab File: BF117942.D  
 Acq: 23 Nov 2019 2:19

Instrument :  
 BNA\_F  
 ClientSampled :  
 14-(2-4)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.0 | 125.3 | 187.9 |
| 115     | 60.8  | 47.0  | 70.4  |

Manual Integrations  
 APPROVED

mohammad  
 11/25/2019 8:19:40 AM

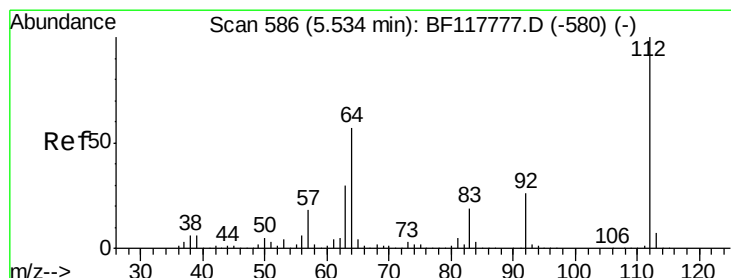
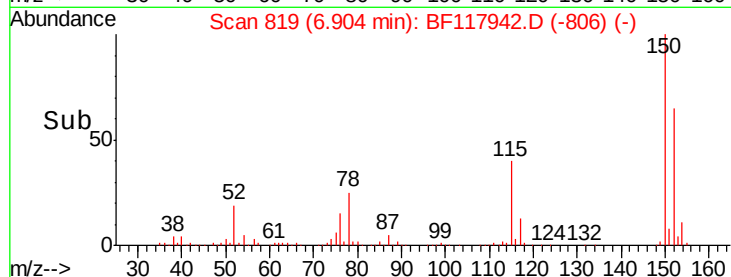
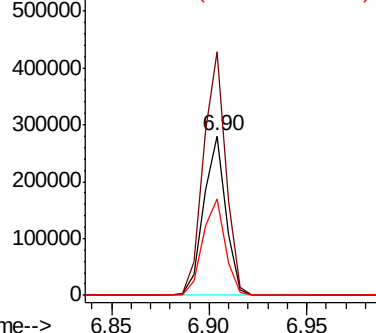


Abundance

Ion 152.00 (151.70 to 152.70): E

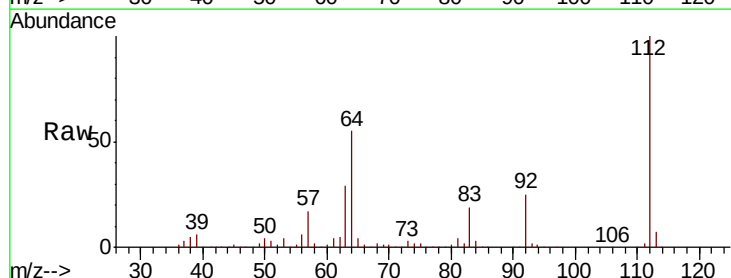
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5  
 2-Fluorophenol  
 Concen: 30.008 ng  
 RT: 5.52 min Scan# 583  
 Delta R.T. -0.02 min  
 Lab File: BF117942.D  
 Acq: 23 Nov 2019 2:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.5  | 45.6  | 68.4  |
| 63      | 28.6  | 24.1  | 36.1  |

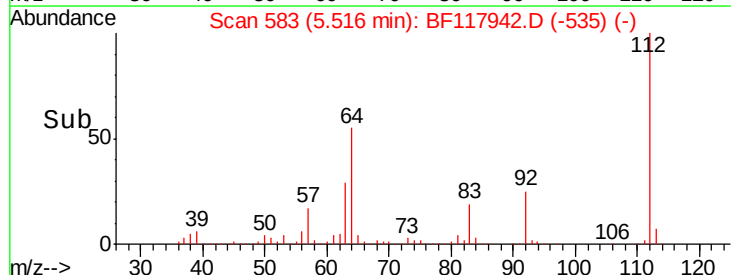
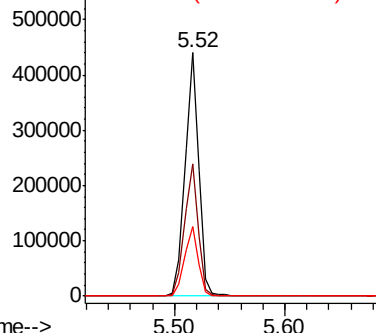


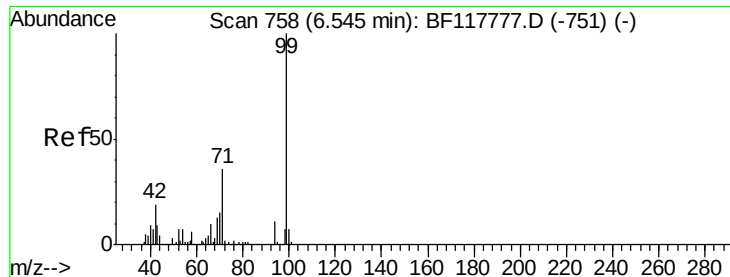
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 84.951 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.02 min

Lab File: BF117942.D

Acq: 23 Nov 2019 2:19

Instrument :

BNA\_F

ClientSampleId :

14-(2-4)RX

Tot Ion: 99 Resp: 1271082

Ion Ratio Lower Upper

99 100

42 18.2 14.9 22.3

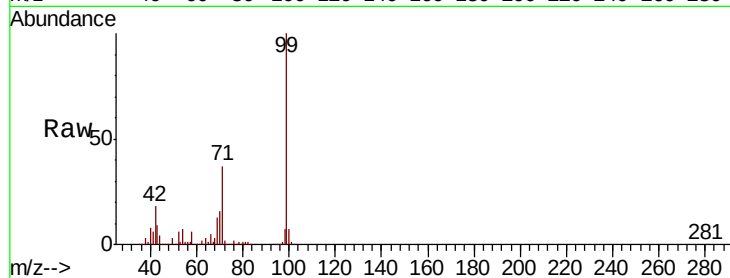
71 36.6 28.6 43.0

Manual Integrations

APPROVED

mohammad

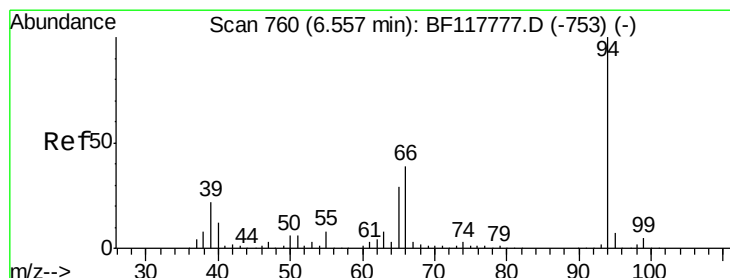
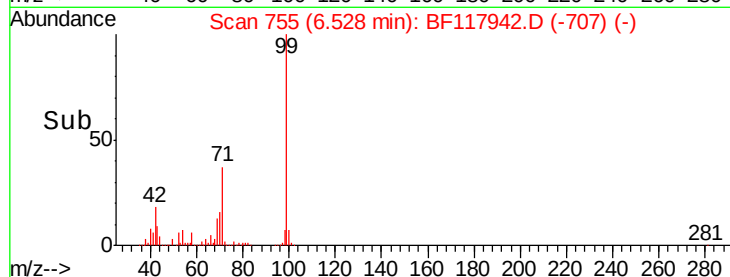
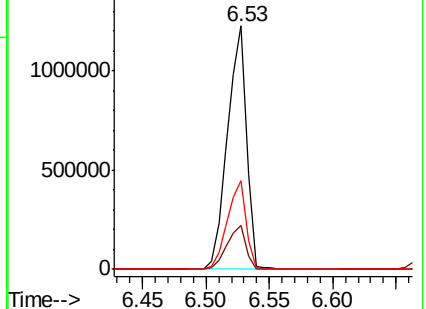
11/25/2019 8:19:40 AM



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.397 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.02 min

Lab File: BF117942.D

Acq: 23 Nov 2019 2:19

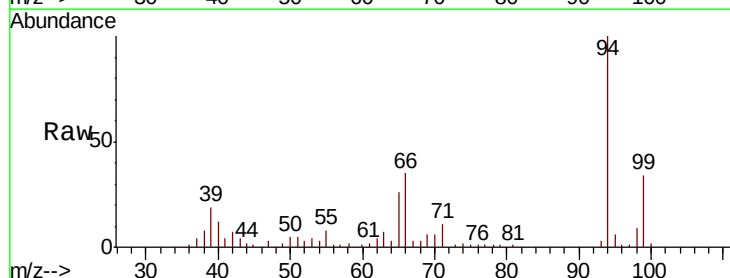
Tgt Ion: 94 Resp: 37265

Ion Ratio Lower Upper

94 100

65 25.9 8.9 48.9

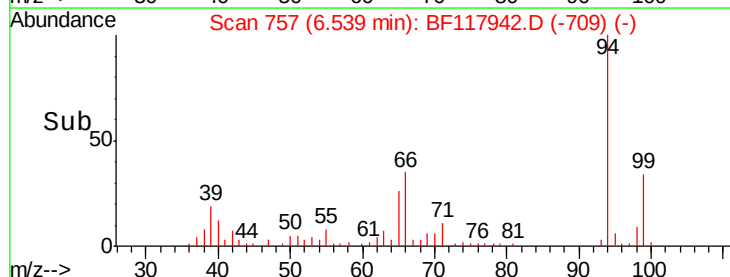
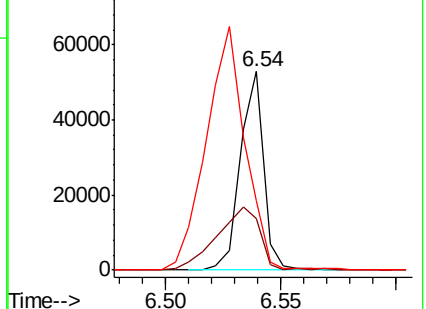
66 35.0 18.7 58.7

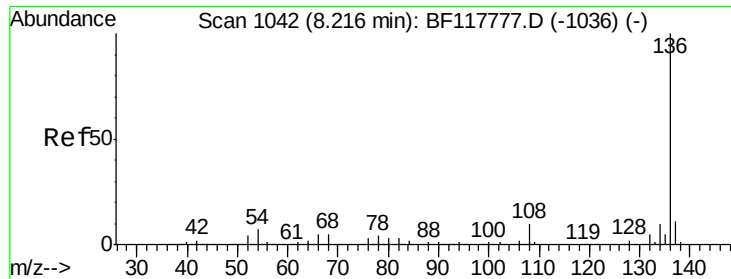


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





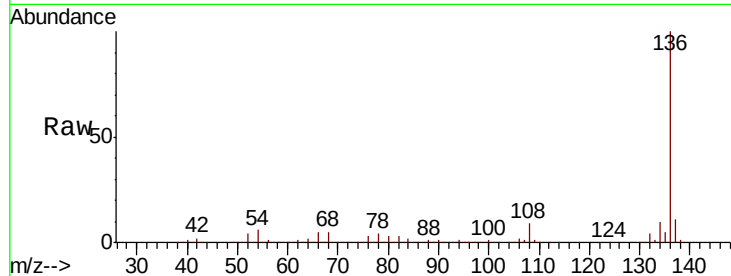
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.19 min Scan# 1038  
Delta R.T. -0.02 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

Instrument :  
BNA\_F  
ClientSampleId :  
14-(2-4)RX

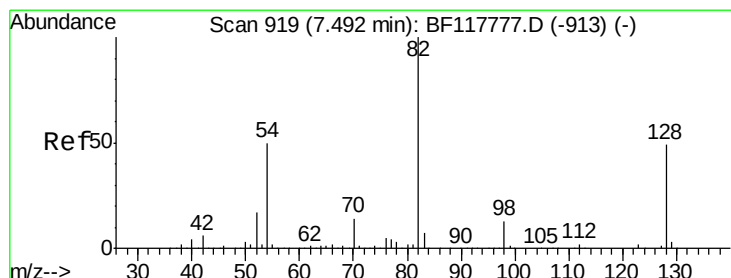
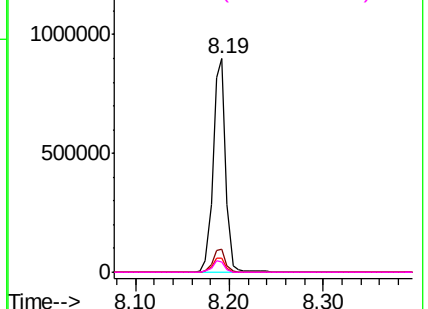
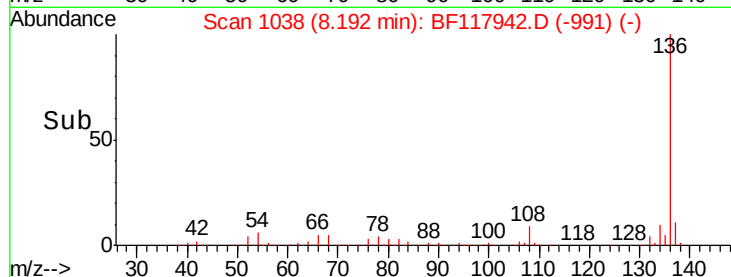
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 854467 |       |       |
| 137     | 10.8  | 9.0    | 13.4  |       |
| 54      | 6.5   | 5.4    | 8.2   |       |
| 68      | 5.0   | 4.3    | 6.5   |       |

Manual Integrations  
APPROVED

mohammad  
11/25/2019 8:19:40 AM

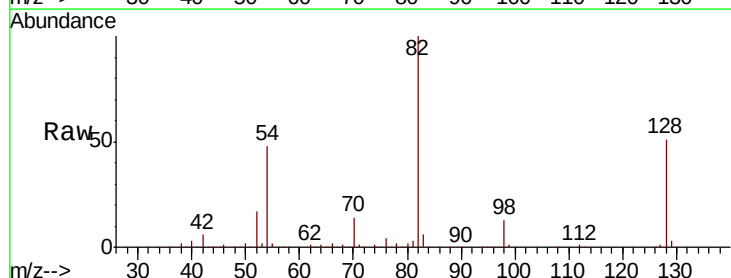


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

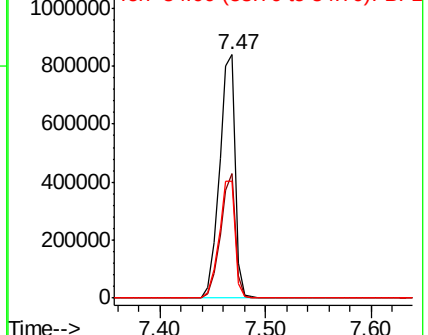
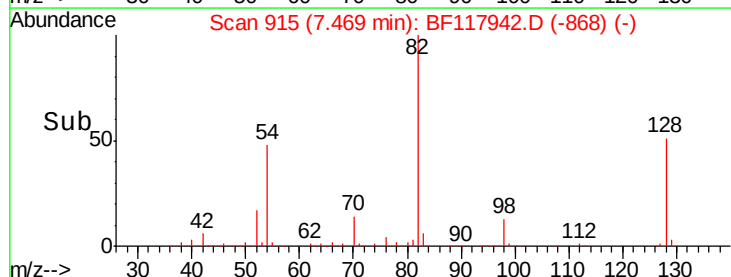


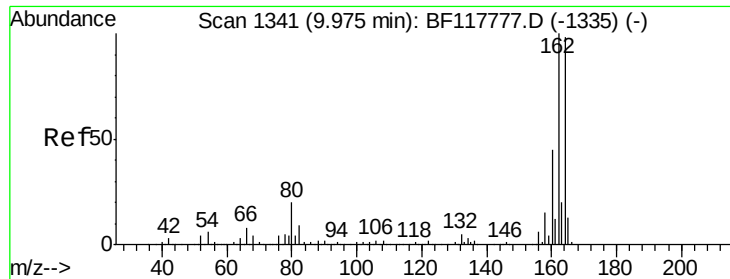
#23  
Nitrobenzene-d5  
Concen: 61.577 ng  
RT: 7.47 min Scan# 915  
Delta R.T. -0.02 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 885095 |       |       |
| 128     | 51.3  | 38.9   | 58.3  |       |
| 54      | 47.8  | 39.8   | 59.6  |       |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





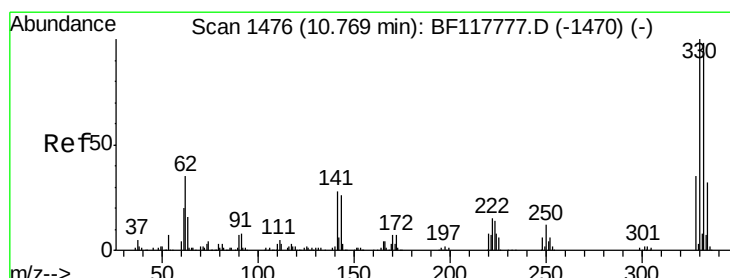
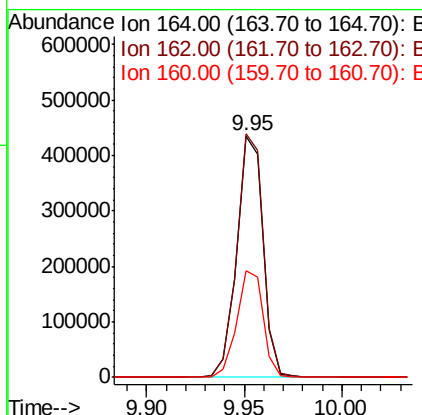
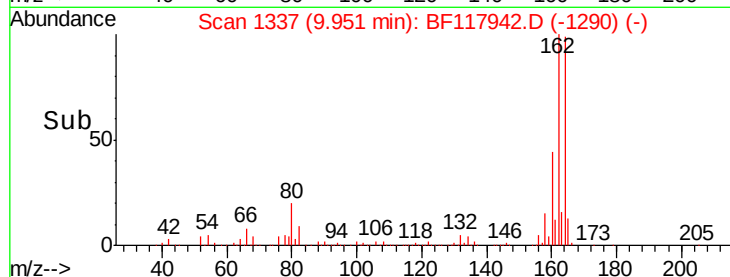
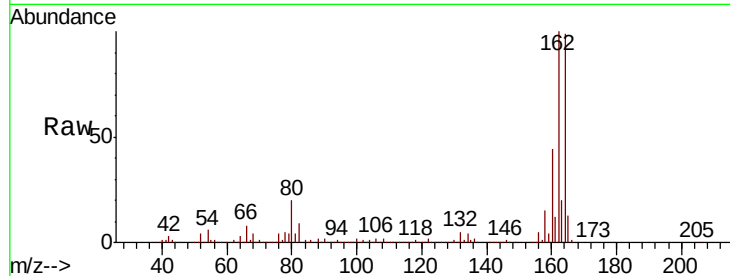
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.95 min Scan# 1337  
Delta R.T. -0.02 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

Instrument :  
BNA\_F  
ClientSampled :  
14-(2-4)RX

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 100.7 | 81.3 | 121.9 |       |
| 160     | 44.2  | 36.6 | 55.0  |       |

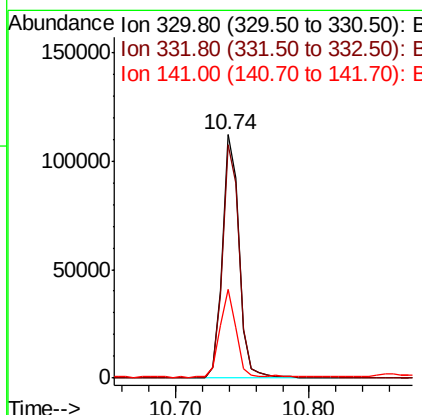
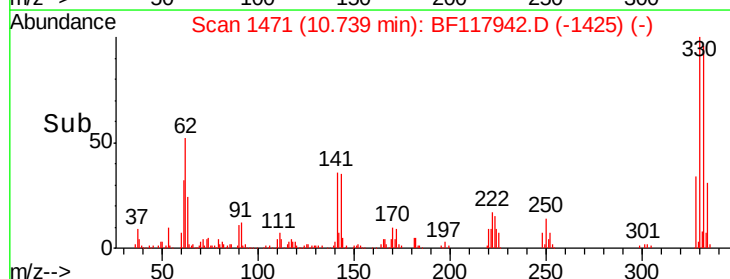
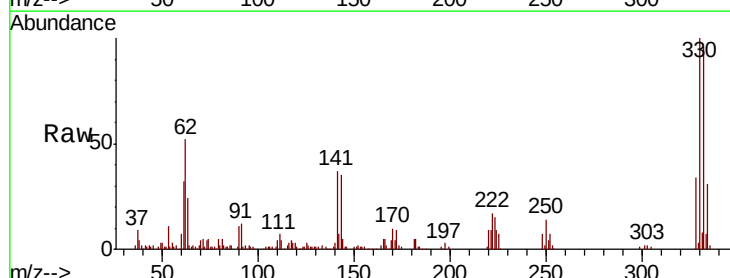
Manual Integrations  
APPROVED

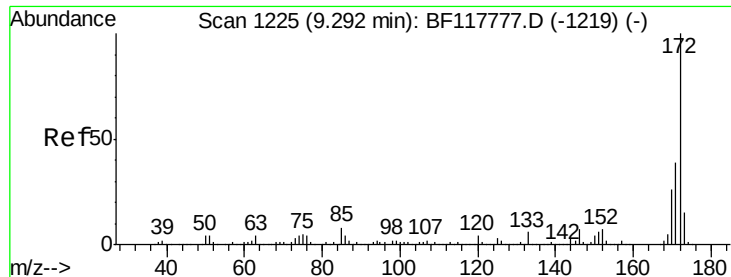
mohammad  
11/25/2019 8:19:40 AM



#42  
2,4,6-Tribromophenol  
Concen: 23.340 ng  
RT: 10.74 min Scan# 1471  
Delta R.T. -0.03 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 97.1  | 76.7 | 115.1 |       |
| 141     | 35.8  | 27.7 | 41.5  |       |





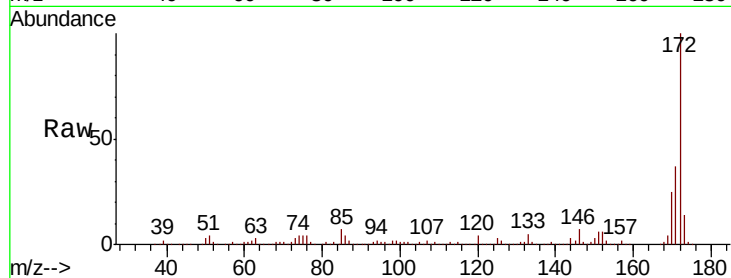
#45  
2-Fluorobiphenyl  
Concen: 75.843 ng  
RT: 9.27 min Scan# 1221  
Delta R.T. -0.02 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

Instrument :  
BNA\_F  
ClientSampleId :  
14-(2-4)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 30.9  | 46.3  |
| 170     | 24.6  | 21.0  | 31.4  |

Manual Integrations  
APPROVED

mohammad  
11/25/2019 8:19:40 AM

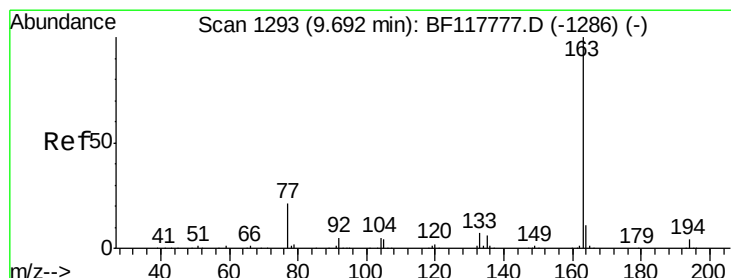
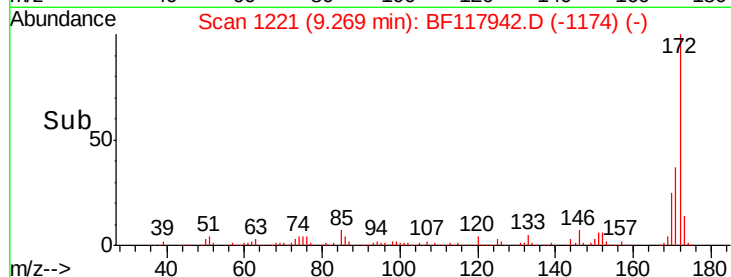
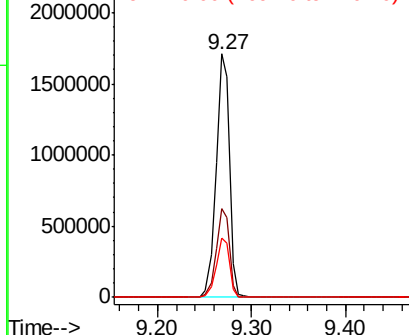


Abundance

Ion 172.00 (171.70 to 172.70): E

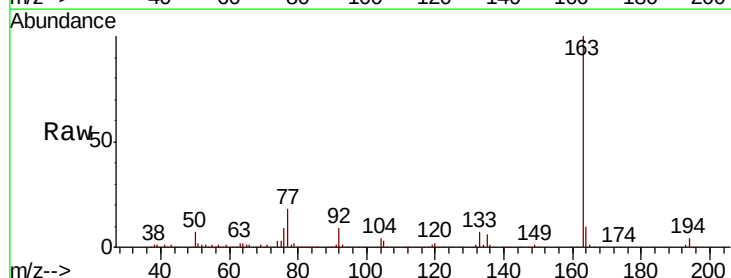
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 12.804 ng  
RT: 9.66 min Scan# 1288  
Delta R.T. -0.03 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.1   | 3.3   | 4.9   |
| 164     | 10.1  | 8.7   | 13.1  |

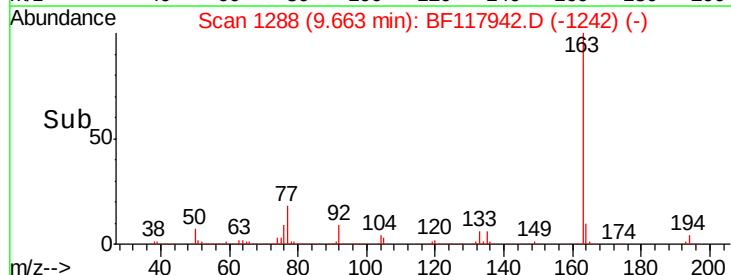
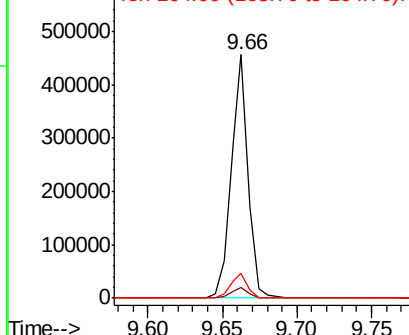


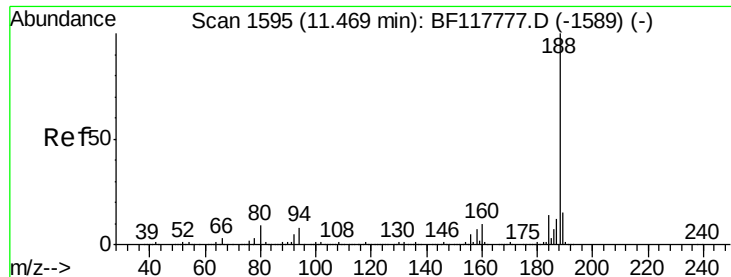
Abundance

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





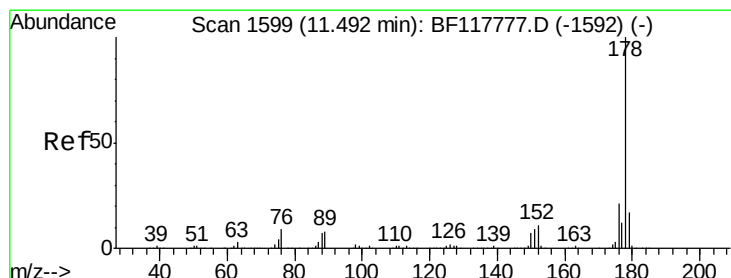
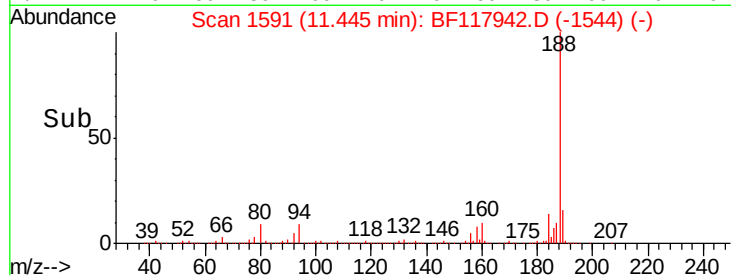
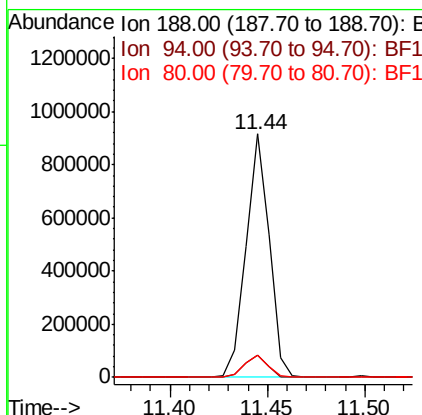
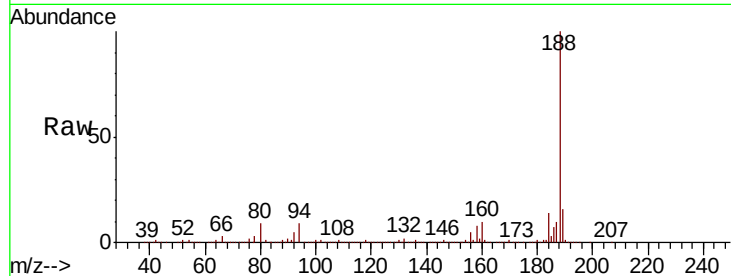
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.44 min Scan# 1591  
Delta R.T. -0.02 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

Instrument :  
BNA\_F  
ClientSampleId :  
14-(2-4)RX

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 9.1   | 6.6        | 10.0  |
| 80      | 9.1   | 7.2        | 10.8  |

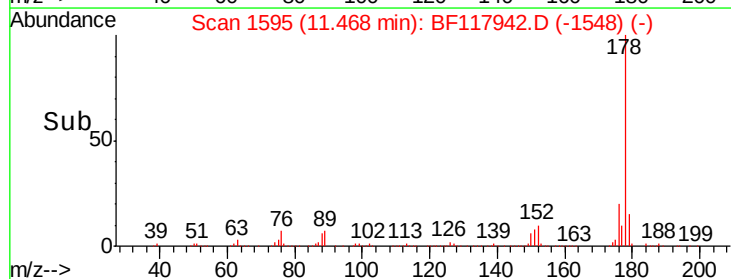
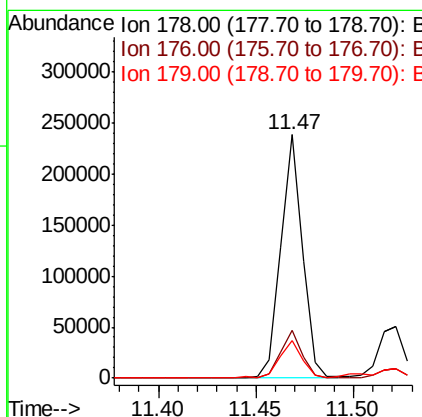
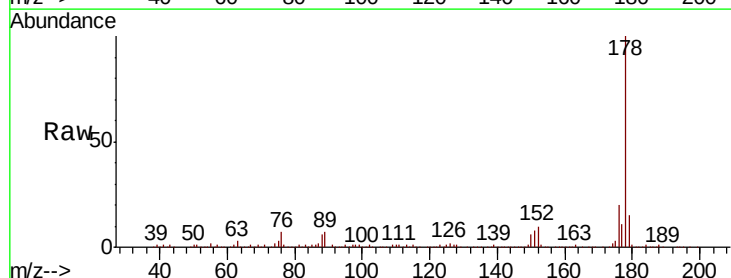
Manual Integrations  
APPROVED

mohammad  
11/25/2019 8:19:40 AM

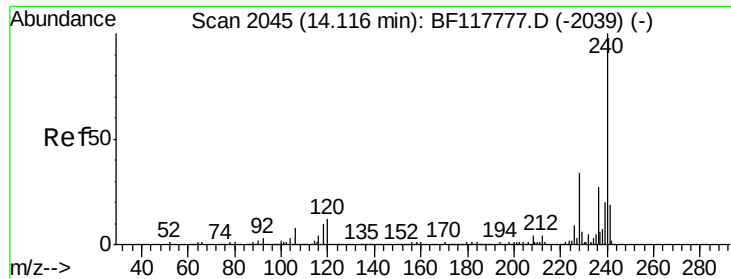


#71  
Phenanthrene  
Concen: 4.842 ng  
RT: 11.47 min Scan# 1595  
Delta R.T. -0.02 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.5  | 16.6       | 25.0  |
| 179     | 15.2  | 13.2       | 19.8  |







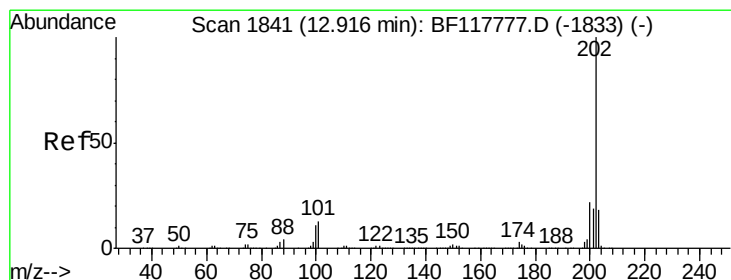
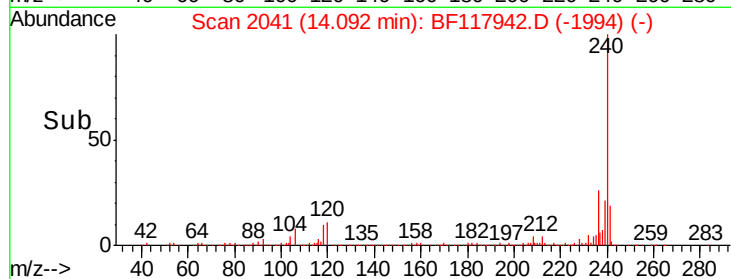
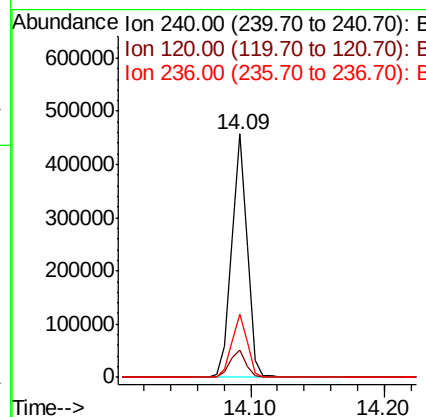
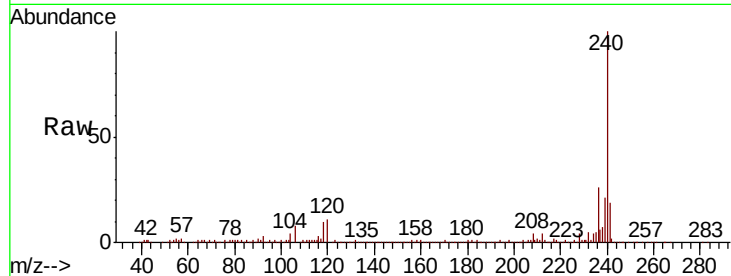
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.09 min Scan# 2041  
Delta R.T. -0.02 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

Instrument :  
BNA\_F  
ClientSampleId :  
14-(2-4)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.4  | 9.5   | 14.3  |
| 236     | 25.8  | 21.3  | 31.9  |

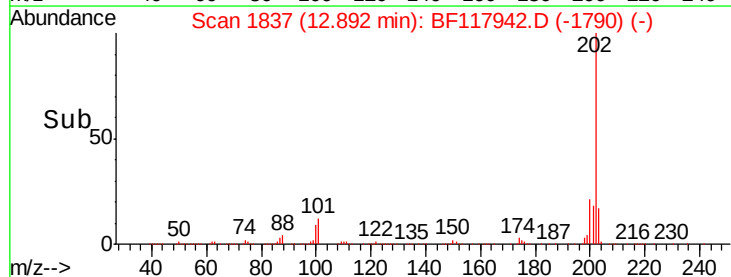
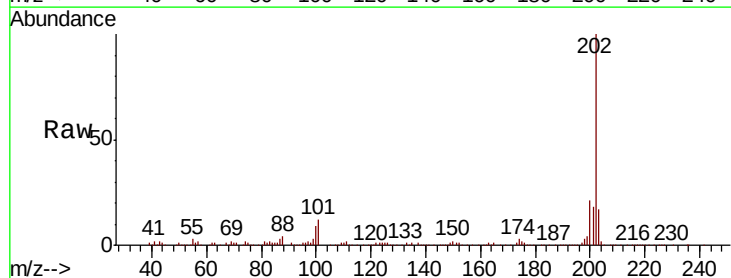
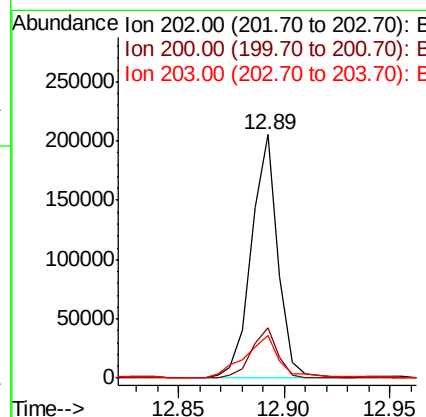
Manual Integrations  
APPROVED

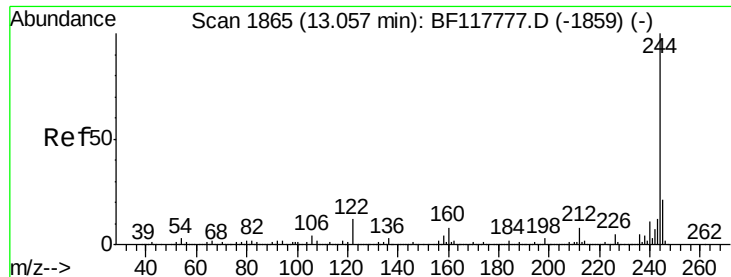
mohammad  
11/25/2019 8:19:40 AM



#78  
Pyrene  
Concen: 5.807 ng  
RT: 12.89 min Scan# 1837  
Delta R.T. -0.02 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 17.8  | 26.8  |
| 203     | 17.3  | 14.6  | 22.0  |





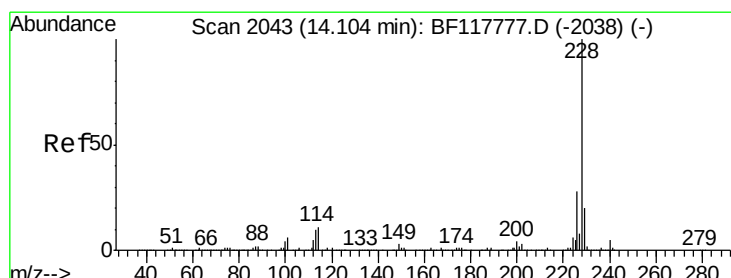
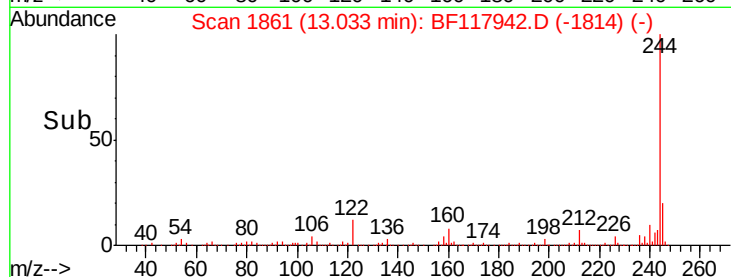
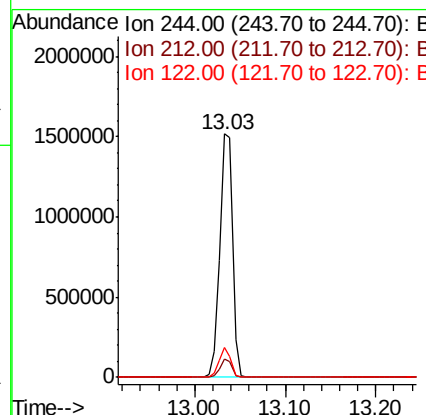
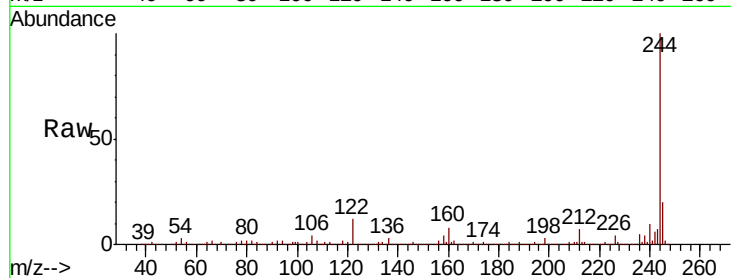
#79  
 Terphenyl-d14  
 Concen: 71.385 ng  
 RT: 13.03 min Scan# 1861  
 Delta R.T. -0.02 min  
 Lab File: BF117942.D  
 Acq: 23 Nov 2019 2:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 14-(2-4)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.3   | 6.3   | 9.5   |
| 122     | 12.1  | 9.4   | 14.2  |

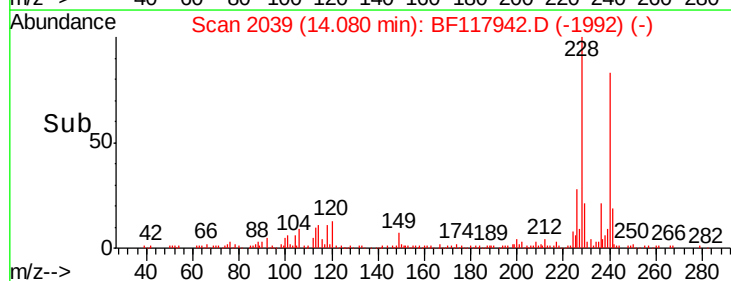
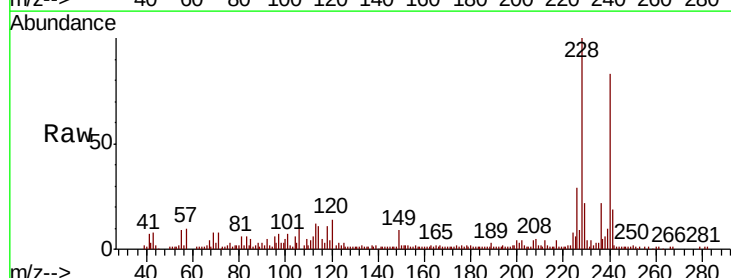
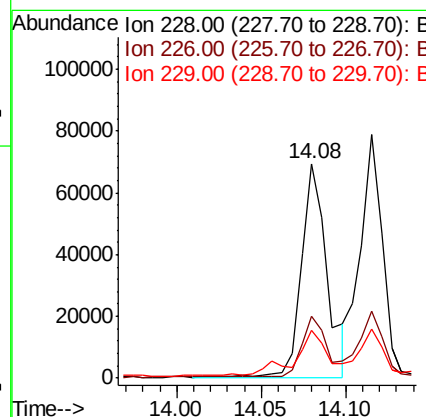
Manual Integrations  
 APPROVED

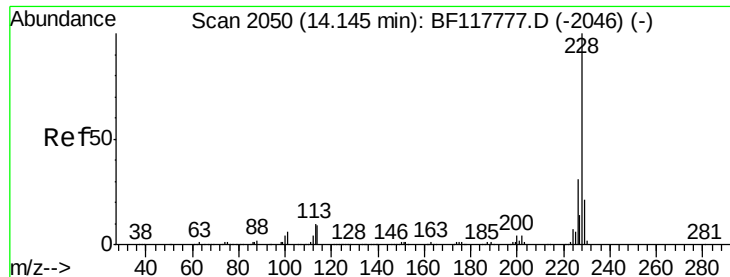
mohammad  
 11/25/2019 8:19:40 AM



#81  
 Benzo(a)anthracene  
 Concen: 2.991 ng  
 RT: 14.08 min Scan# 2039  
 Delta R.T. -0.02 min  
 Lab File: BF117942.D  
 Acq: 23 Nov 2019 2:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 22.2  | 33.2  |
| 229     | 22.3  | 15.9  | 23.9  |





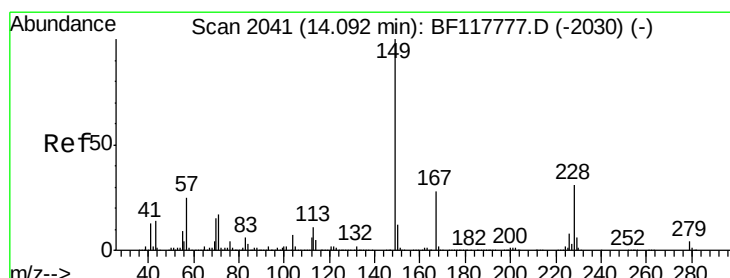
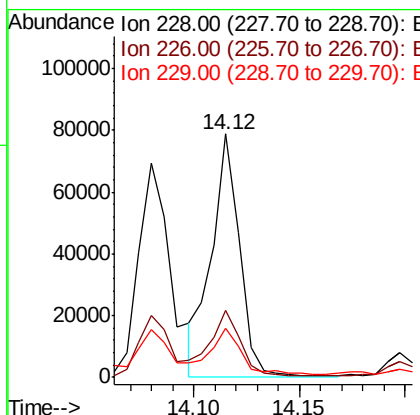
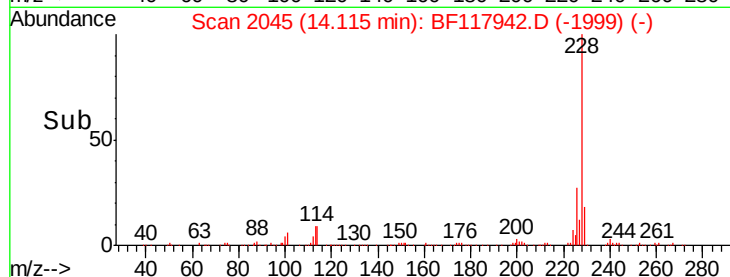
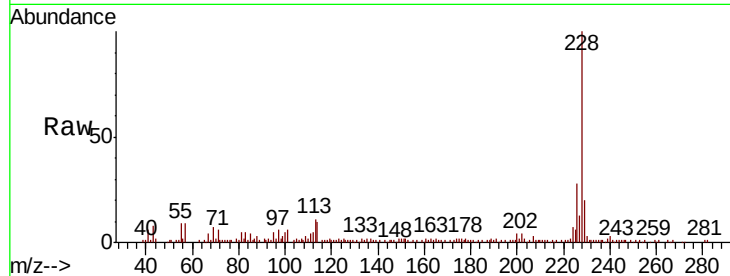
#83  
Chrysene  
Concen: 3.007 ng  
RT: 14.12 min Scan# 2045  
Delta R.T. -0.03 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

Instrument :  
BNA\_F  
ClientSampled :  
14-(2-4)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 25.0  | 37.4  |
| 229     | 20.0  | 16.6  | 25.0  |

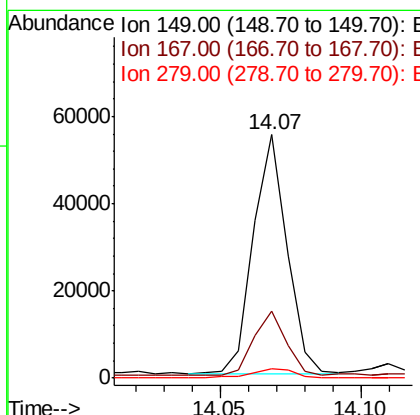
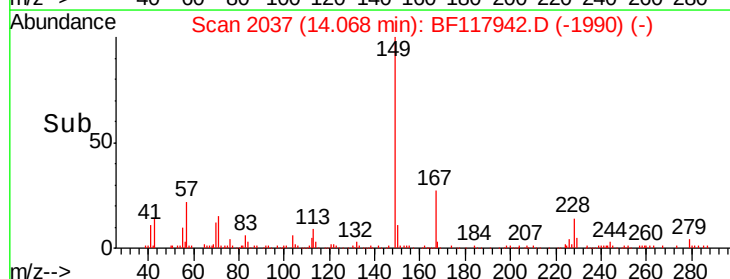
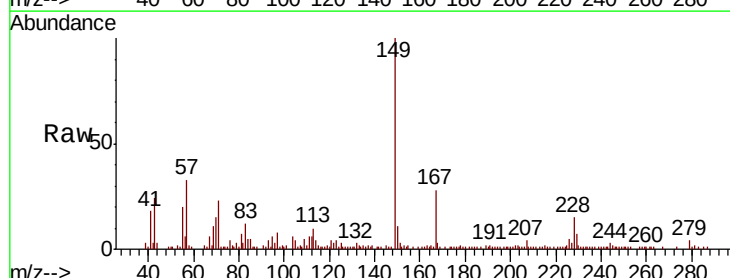
Manual Integrations  
APPROVED

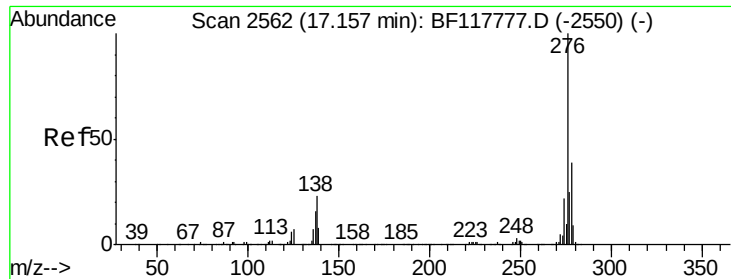
mohammad  
11/25/2019 8:19:40 AM



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 2.879 ng  
RT: 14.07 min Scan# 2037  
Delta R.T. -0.02 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.5  | 22.2  | 33.2  |
| 279     | 4.1   | 3.4   | 5.2   |





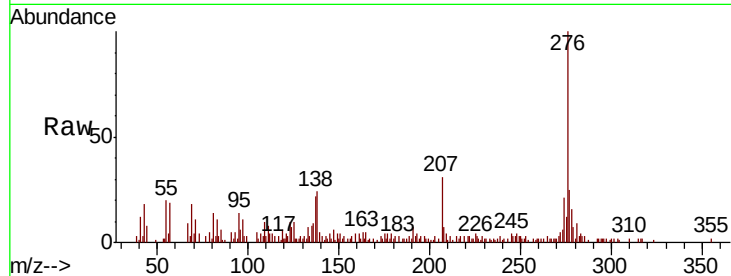
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.081 ng  
 RT: 17.11 min Scan# 2554  
 Delta R.T. -0.05 min  
 Lab File: BF117942.D  
 Acq: 23 Nov 2019 2:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 14-(2-4)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.7  | 20.9  | 31.3  |
| 277     | 29.2  | 20.3  | 30.5  |

Manual Integrations  
 APPROVED

mohammad  
 11/25/2019 8:19:40 AM

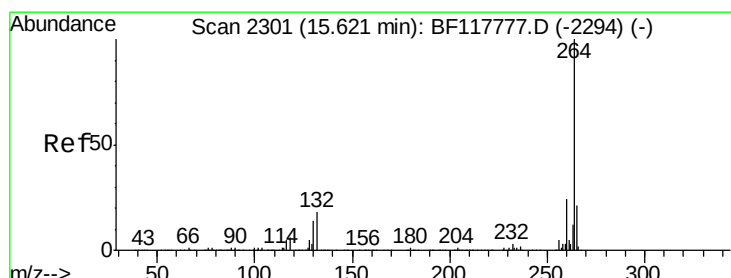
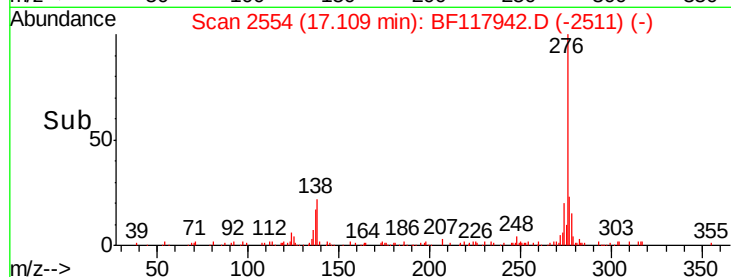
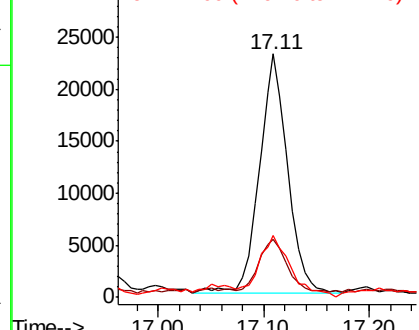


Abundance

Ion 276.00 (275.70 to 276.70): E

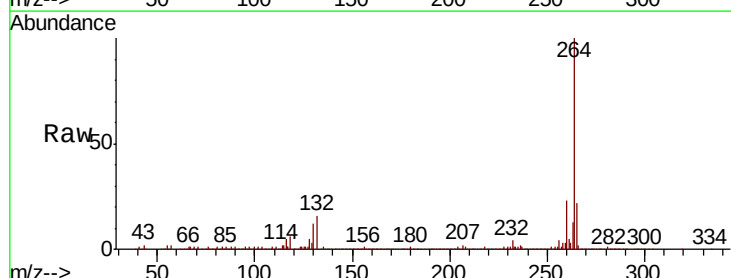
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.60 min Scan# 2297  
 Delta R.T. -0.02 min  
 Lab File: BF117942.D  
 Acq: 23 Nov 2019 2:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.4  | 29.0  |
| 265     | 21.9  | 17.1  | 25.7  |

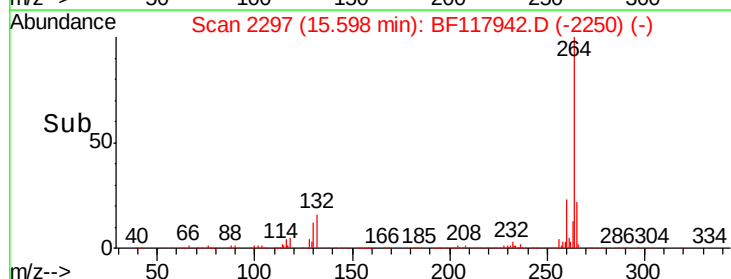
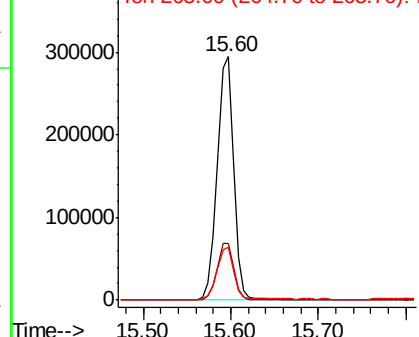


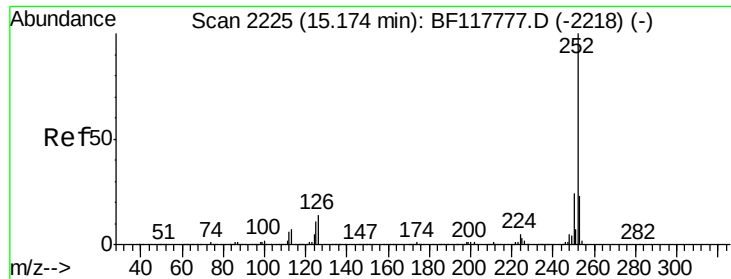
Abundance

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





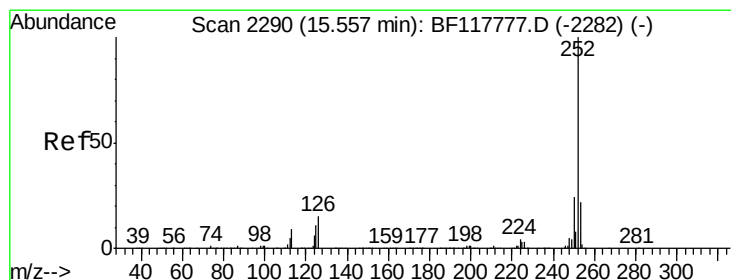
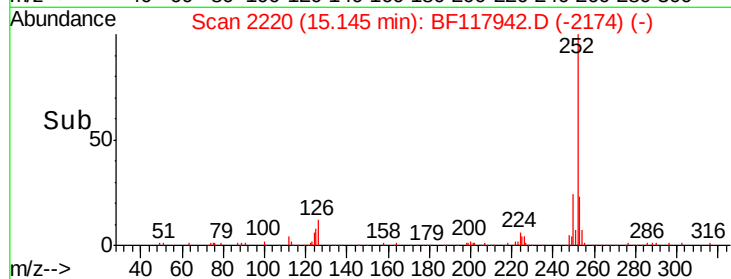
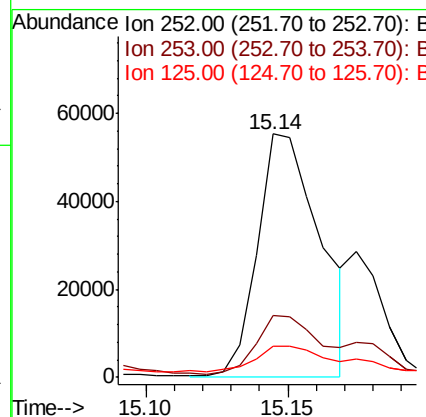
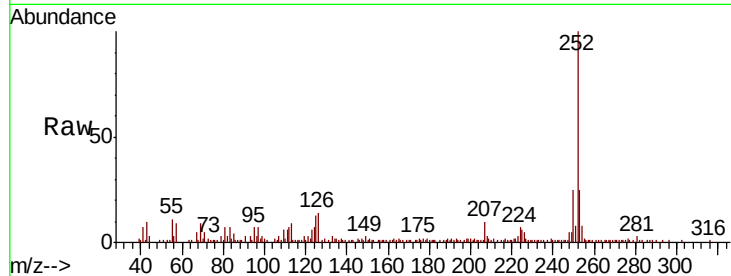
#88  
Benzo(b)fluoranthene  
Concen: 3.367 ng m  
RT: 15.14 min Scan# 2220  
Delta R.T. -0.03 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

Instrument :  
BNA\_F  
ClientSampleId :  
14-(2-4)RX

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 18.0  | 27.0  |
| 125     | 12.8  | 8.6   | 13.0  |

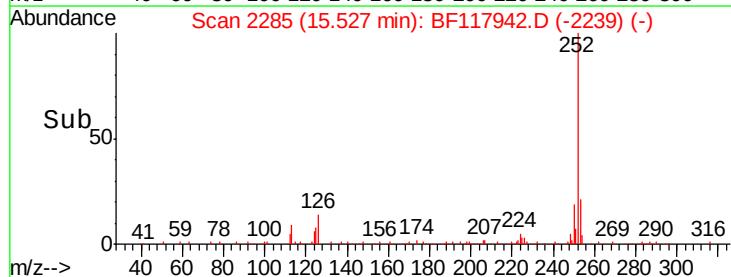
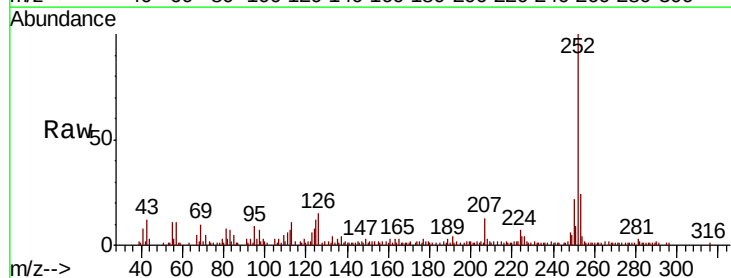
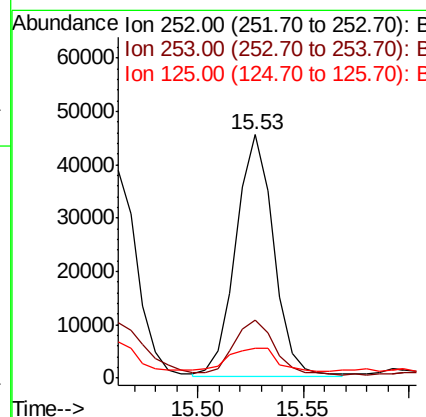
Manual Integrations  
APPROVED

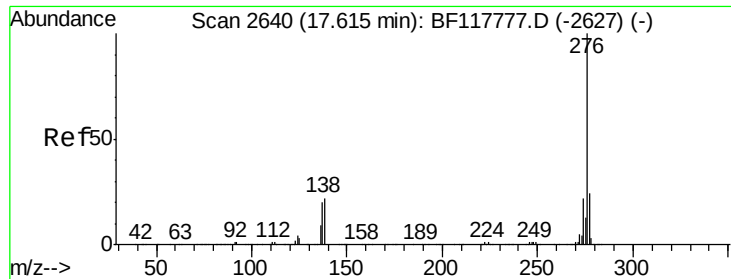
mohammad  
11/25/2019 8:19:40 AM



#90  
Benzo(a)pyrene  
Concen: 2.506 ng  
RT: 15.53 min Scan# 2285  
Delta R.T. -0.03 min  
Lab File: BF117942.D  
Acq: 23 Nov 2019 2:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.8  | 26.6  |
| 125     | 12.3  | 9.2   | 13.8  |





#92  
 Benzo(a,h,i)perylene  
 Concen: 2.158 ng  
 RT: 17.57 min Scan# 2632  
 Delta R.T. -0.05 min  
 Lab File: BF117942.D  
 Acq: 23 Nov 2019 2:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 14-(2-4)RX

|           |      |       |       |
|-----------|------|-------|-------|
| Tot Ion:  | 276  | Resp: | 41324 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 277       | 22.9 | 18.9  | 28.3  |
| 138       | 25.0 | 17.4  | 26.2  |

Manual Integrations  
 APPROVED

mohammad  
 11/25/2019 8:19:40 AM

