

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
 Data File : BF111995.D  
 Acq On : 10 Jan 2019 18:49  
 Operator : JU/SJ  
 Sample : K1071-04  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CPSB-16(20-25)

Manual Integrations  
 APPROVED

Sohil  
 1/11/2019 4:42:53 PM

Quant Time: Jan 11 01:36:35 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 07 14:33:51 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 102228   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.16  | 136  | 327556   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.92  | 164  | 143039   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.40 | 188  | 120368   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 14.04 | 240  | 133683   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.53 | 264  | 107930   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.51  | 112  | 578810   | 96.87  | ng    | -0.01    |
| 7) Phenol-d6                   | 6.52  | 99   | 743138   | 96.49  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 504099   | 82.25  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 81964    | 44.05  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.24  | 172  | 716277   | 73.02  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.98 | 244  | 346060   | 49.14  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.53  | 94   | 89281    | 10.666 | ng    | # 77     |
| 20) 3+4-Methylphenols          | 7.28  | 107  | 112997   | 17.026 | ng    | # 65     |
| 50) Dimethylphthalate          | 9.63  | 163  | 99233    | 9.235  | ng    | # 86     |
| 52) Acenaphthene               | 9.95  | 154  | 106108   | 11.855 | ng    | 95       |
| 55) Dibenzofuran               | 10.12 | 168  | 112952   | 8.678  | ng    | # 90     |
| 58) Fluorene                   | 10.46 | 166  | 60501    | 6.388  | ng    | 97       |
| 71) Phenanthrene               | 11.42 | 178  | 182385   | 28.341 | ng    | 98       |
| 72) Anthracene                 | 11.47 | 178  | 20831    | 3.189  | ng    | 98       |
| 75) Fluoranthene               | 12.61 | 202  | 83925    | 12.703 | ng    | 99       |
| 78) Pyrene                     | 12.84 | 202  | 64970    | 7.063  | ng    | 99       |
| 81) Benzo(a)anthracene         | 14.03 | 228  | 18750    | 2.437  | ng    | 100      |
| 83) Chrysene                   | 14.06 | 228  | 15172m   | 2.068  | ng    |          |
| 84) Bis(2-ethylhexyl)phthalate | 14.02 | 149  | 377271   | 73.873 | ng    | 99       |

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

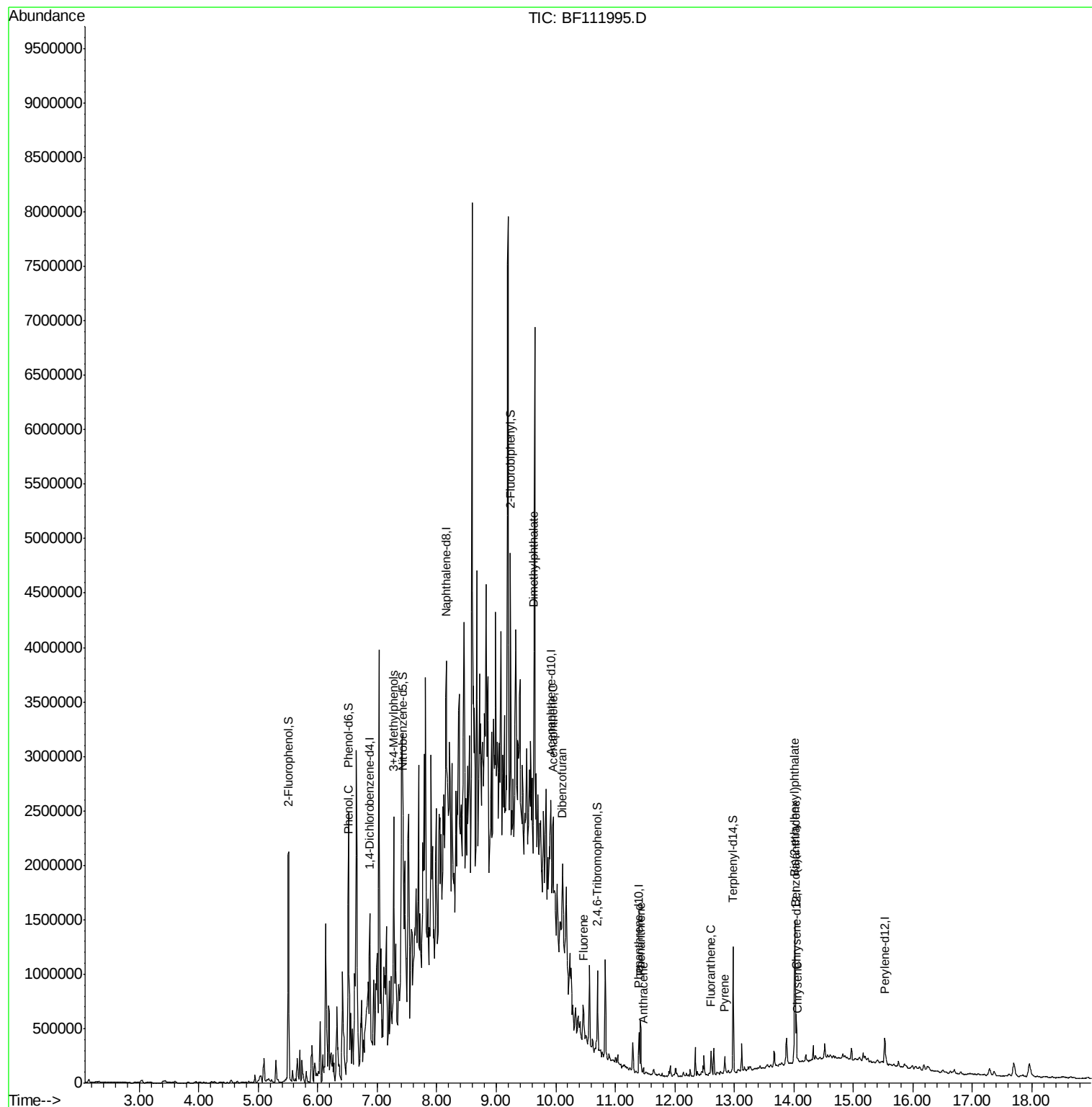
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011019\  
Data File : BF111995.D  
Acq On : 10 Jan 2019 18:49  
Operator : JU/SJ  
Sample : K1071-04  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

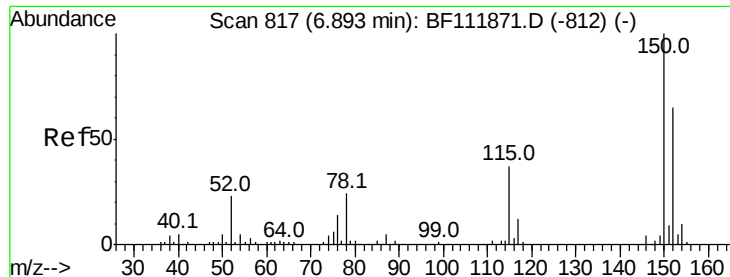
Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-16(20-25)

Manual Integrations  
APPROVED

Sohil  
1/11/2019 4:42:53 PM

Quant Time: Jan 11 01:36:35 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 07 14:33:51 2019  
Response via : Initial Calibration





#1

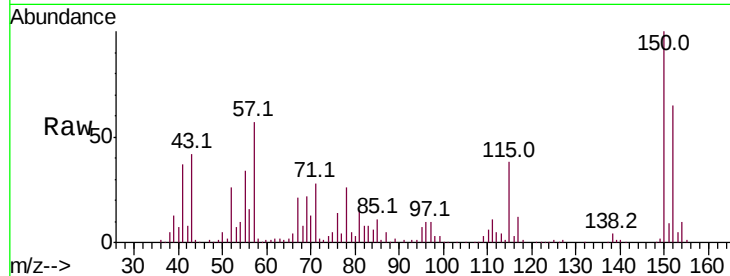
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 814  
Delta R.T. -0.02 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

Instrument :  
BNA\_F  
ClientSampled :  
CPSB-16(20-25)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.2 | 122.7 | 184.1 |
| 115     | 58.8  | 45.2  | 67.8  |

Manual Integrations  
APPROVED

Sohil  
1/11/2019 4:42:53 PM

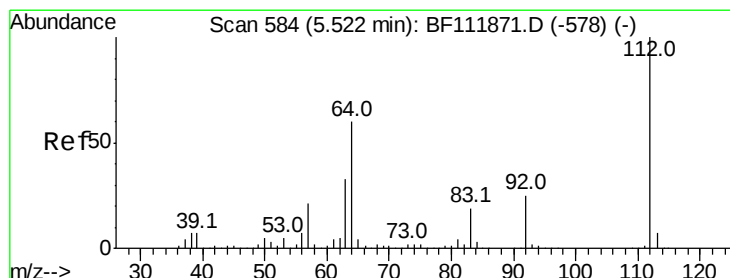
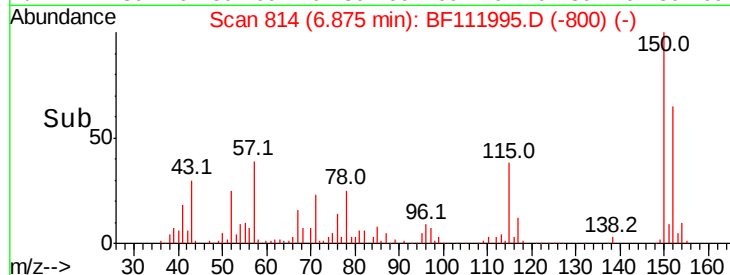
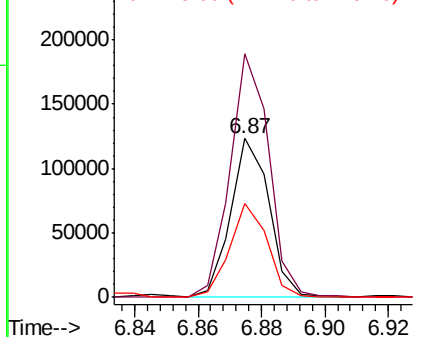


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

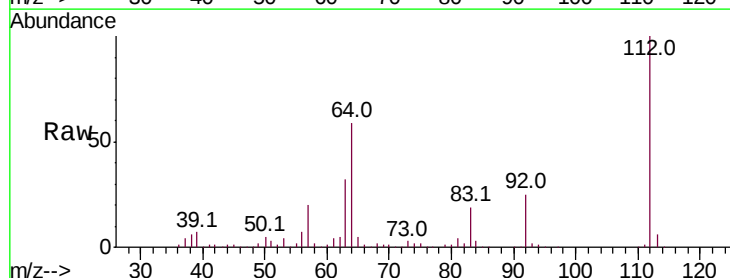
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 96.866 ng  
RT: 5.51 min Scan# 582  
Delta R.T. -0.01 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.8  | 48.3  | 72.5  |
| 63      | 32.3  | 26.1  | 39.1  |

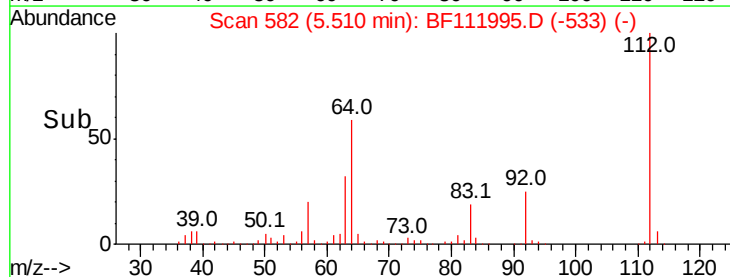
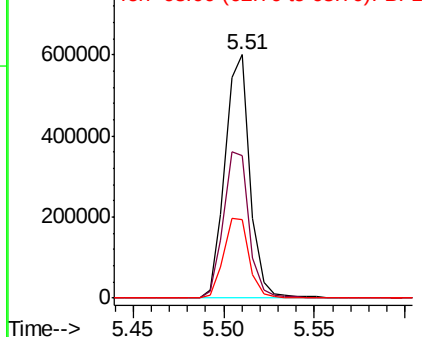


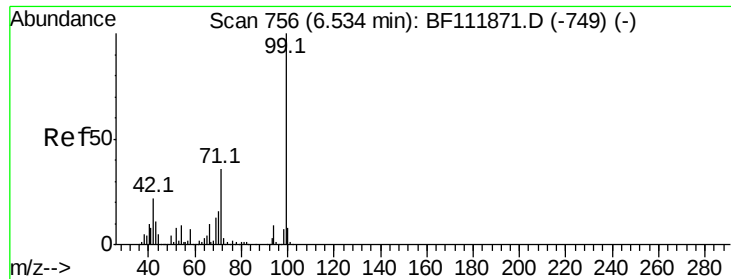
Abundance

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: 96.492 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.02 min

Lab File: BF111995.D

Acq: 10 Jan 2019 18:49

Instrument :

BNA\_F

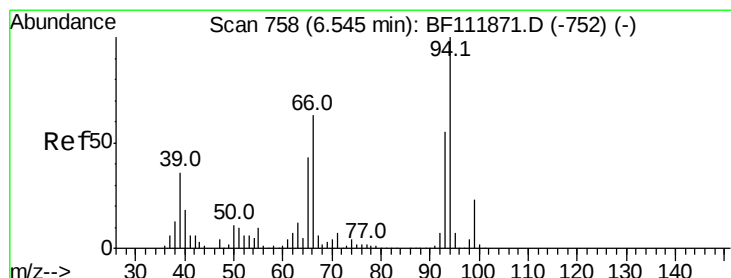
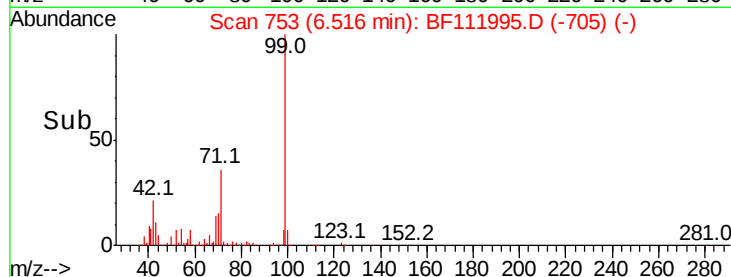
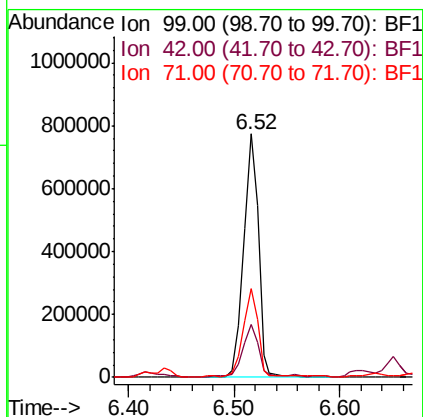
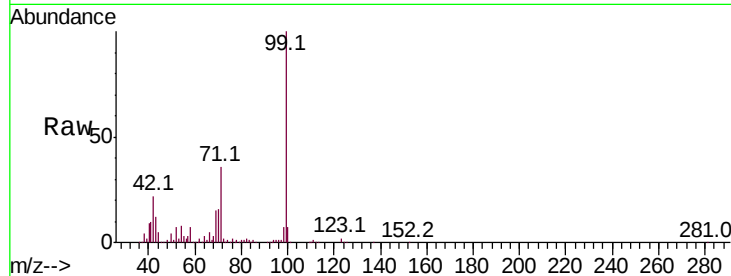
ClientSampled :

CPSB-16(20-25)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 743138 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 21.9  | 17.9  | 26.9   |
| 71        | 36.2  | 28.7  | 43.1   |

Manual Integrations  
APPROVED

Sohil  
1/11/2019 4:42:53 PM



#10

Phenol

Concen: 10.666 ng

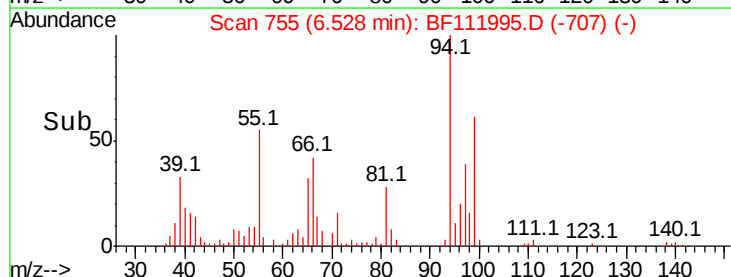
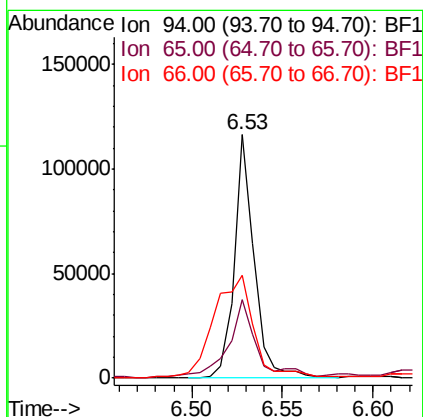
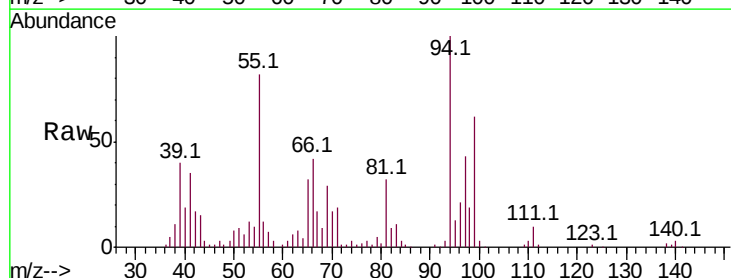
RT: 6.53 min Scan# 755

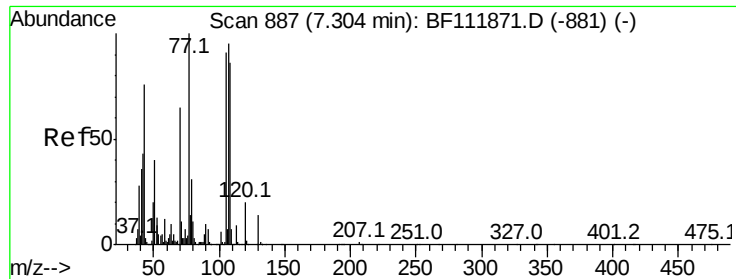
Delta R.T. -0.02 min

Lab File: BF111995.D

Acq: 10 Jan 2019 18:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 89281 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 32.4  | 22.8  | 62.8  |
| 66        | 42.3  | 43.3  | 83.3# |





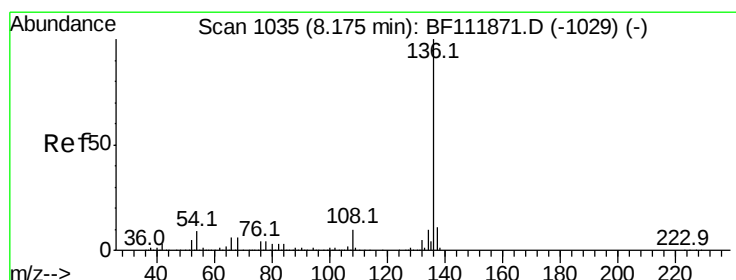
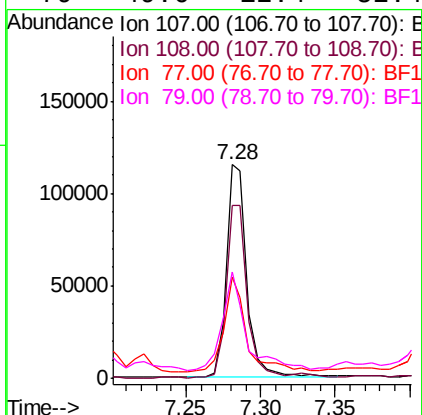
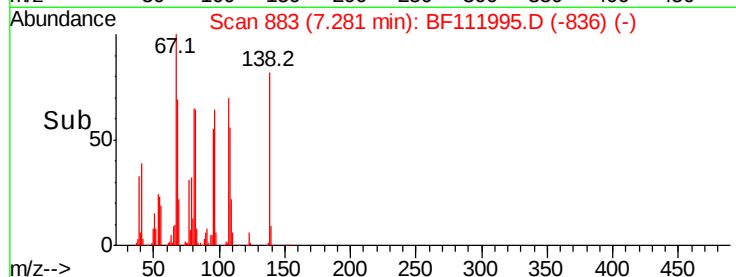
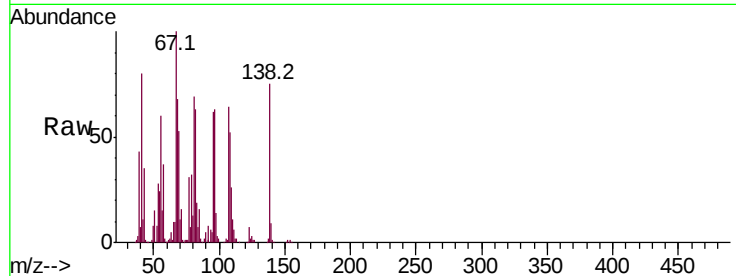
#20  
3+4-Methylphenols  
Concen: 17.026 ng  
RT: 7.28 min Scan# 883  
Delta R.T. -0.02 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-16(20-25)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   |      |       |       |
| 108     | 80.7  | 71.1 | 111.1 |       |
| 77      | 47.6  | 85.4 | 125.4 | #     |
| 79      | 49.6  | 12.4 | 52.4  |       |

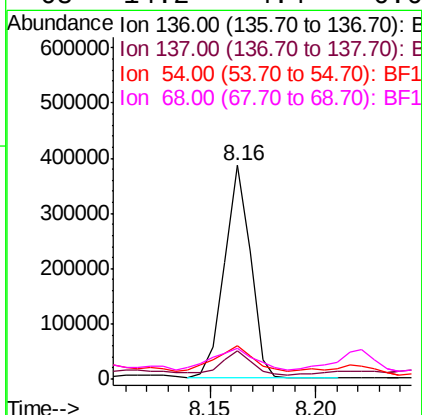
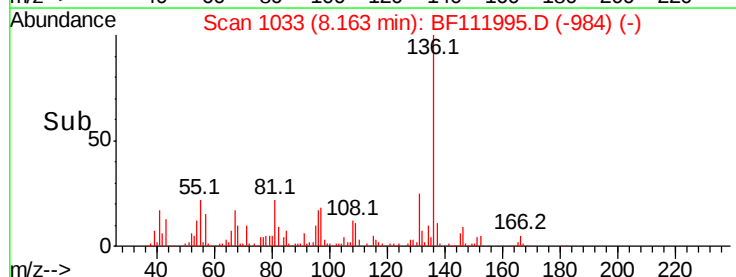
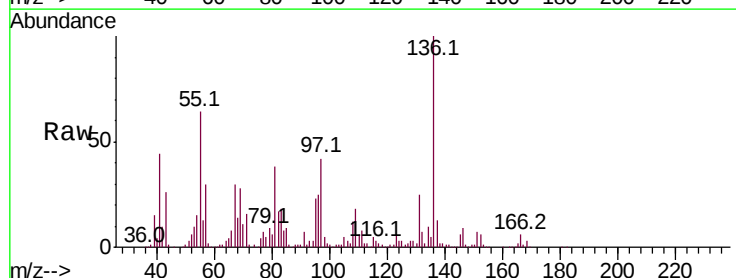
Manual Integrations  
APPROVED

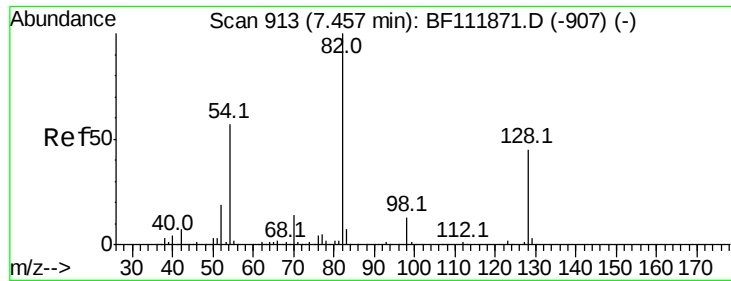
Sohil  
1/11/2019 4:42:53 PM



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 13.5  | 9.1  | 13.7  |       |
| 54      | 15.3  | 7.2  | 10.8  | #     |
| 68      | 14.2  | 4.4  | 6.6   | #     |





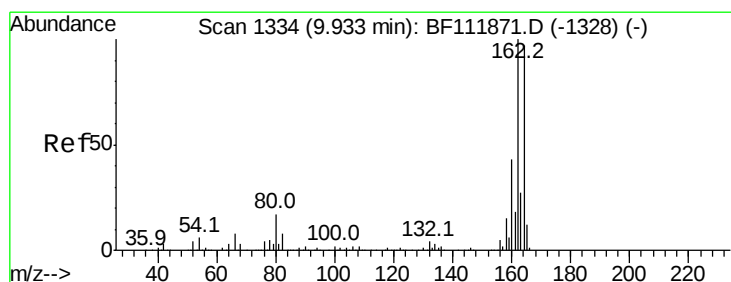
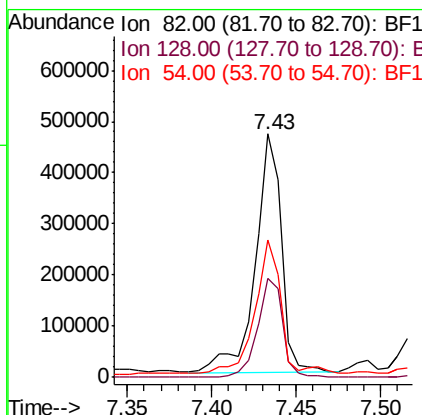
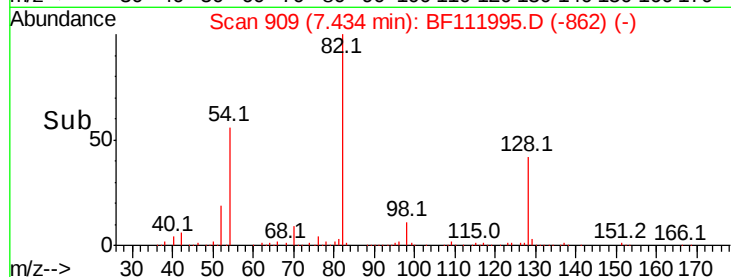
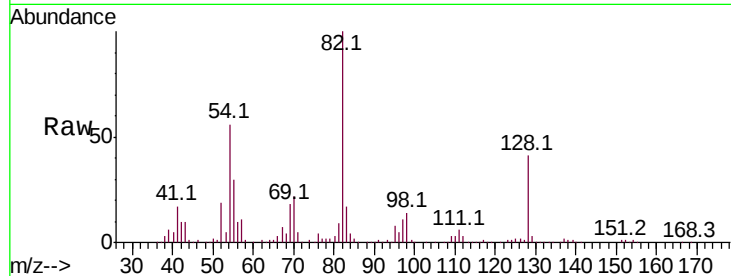
#23  
Nitrobenzene-d5  
Concen: 82.251 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.02 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-16(20-25)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.7  | 35.7  | 53.5  |
| 54      | 56.3  | 45.8  | 68.8  |

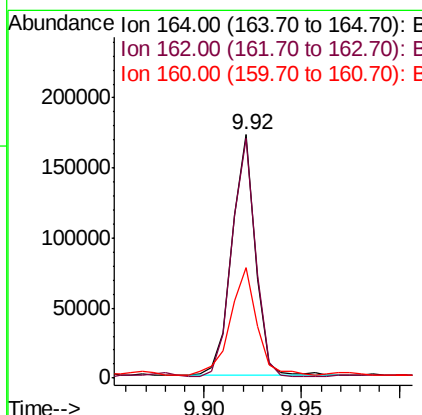
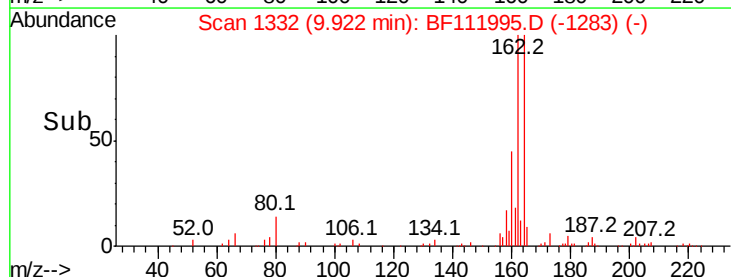
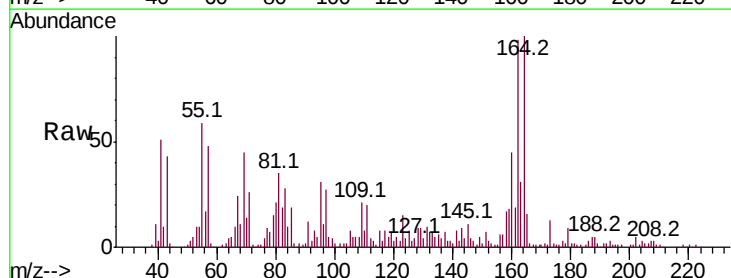
Manual Integrations  
APPROVED

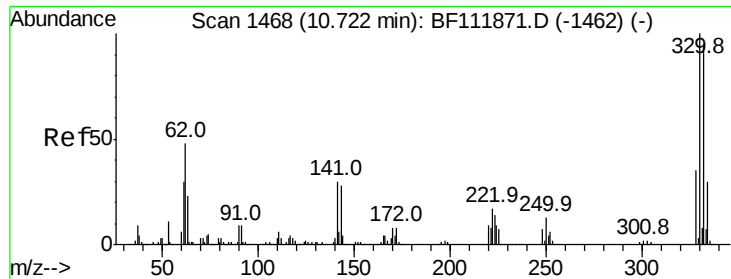
Sohil  
1/11/2019 4:42:53 PM



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. -0.01 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.2  | 82.2  | 123.2 |
| 160     | 45.2  | 35.5  | 53.3  |





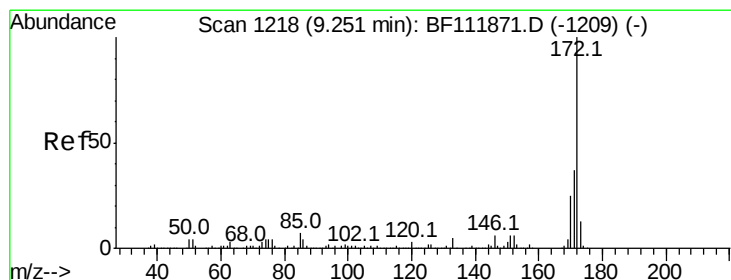
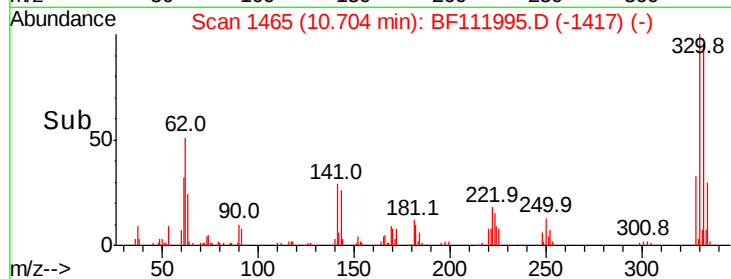
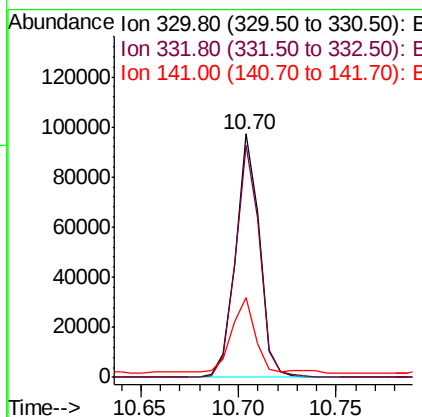
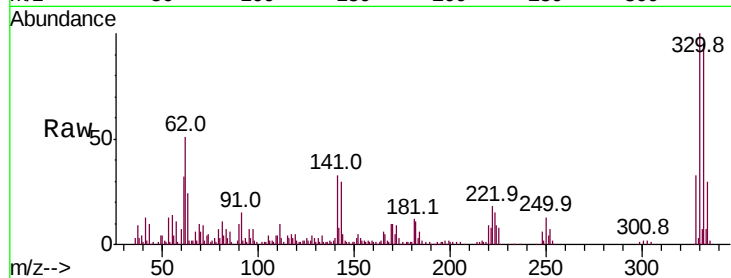
#42  
 2,4,6-Tribromophenol  
 Concen: 44.055 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.02 min  
 Lab File: BF111995.D  
 Acq: 10 Jan 2019 18:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CPSB-16(20-25)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 76.9  | 115.3 |
| 141     | 32.8  | 23.7  | 35.5  |

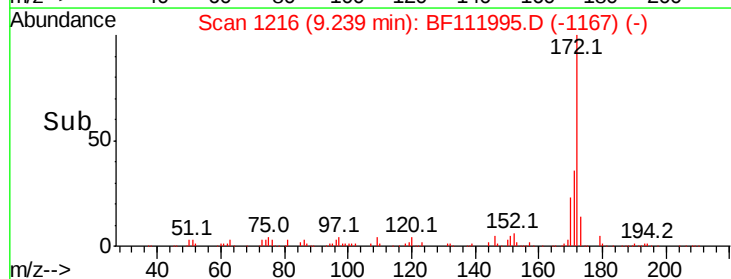
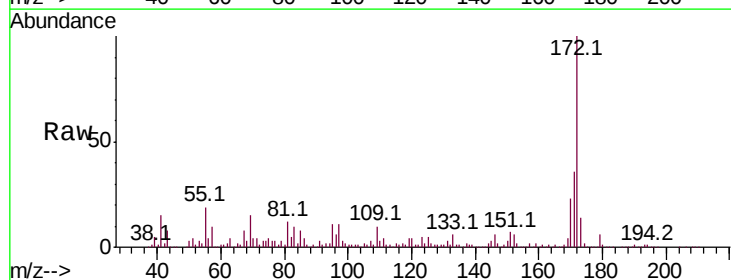
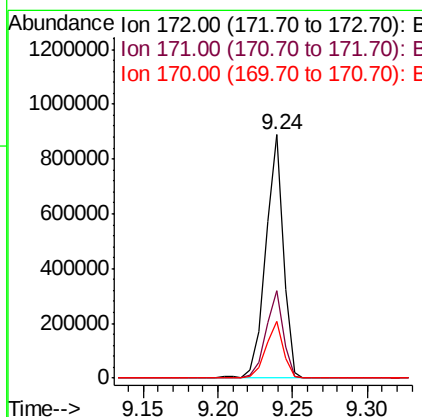
Manual Integrations  
 APPROVED

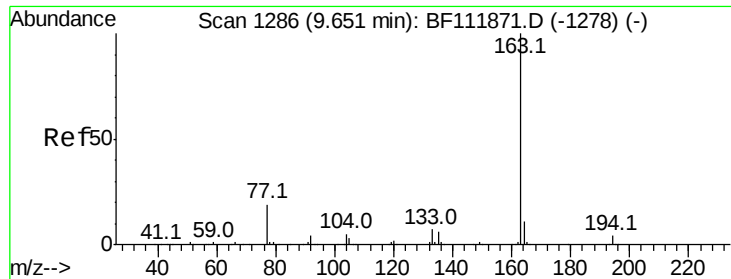
Sohil  
 1/11/2019 4:42:53 PM



#45  
 2-Fluorobiphenyl  
 Concen: 73.020 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF111995.D  
 Acq: 10 Jan 2019 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.6  | 44.4  |
| 170     | 23.4  | 19.8  | 29.8  |





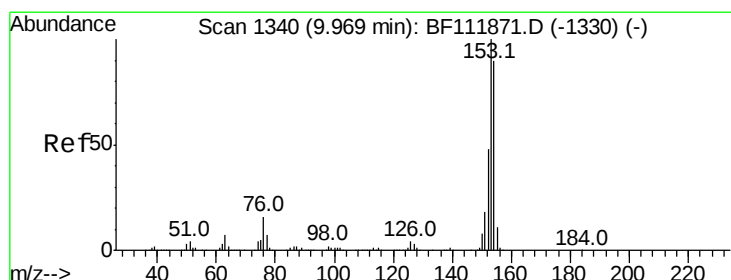
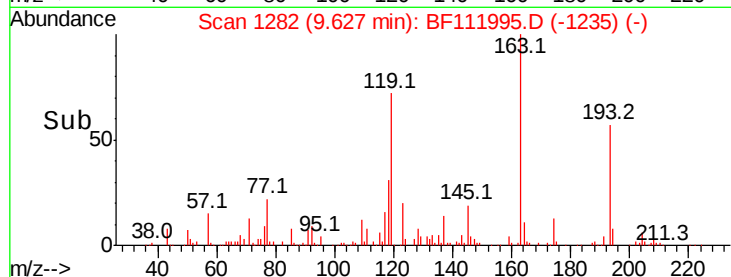
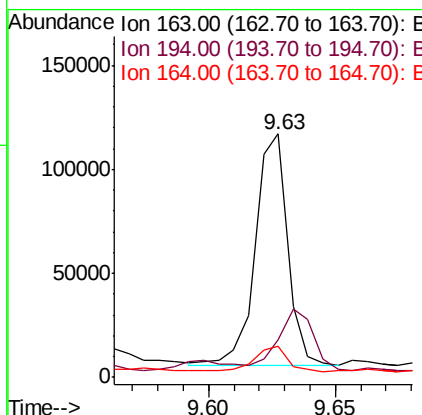
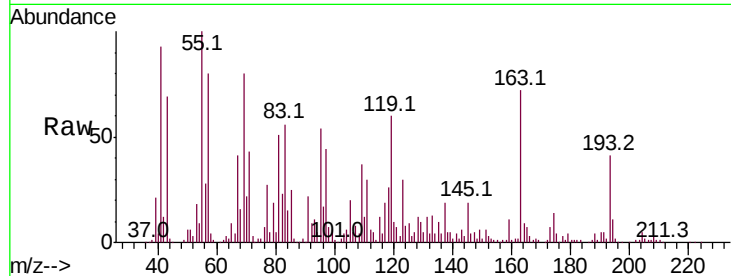
#50  
Dimethylphthalate  
Concen: 9.235 ng  
RT: 9.63 min Scan# 1282  
Delta R.T. -0.02 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-16(20-25)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 15.6  | 3.4   | 5.2#  |
| 164     | 12.6  | 8.5   | 12.7  |

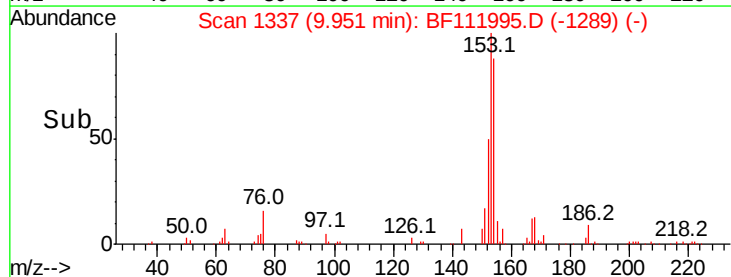
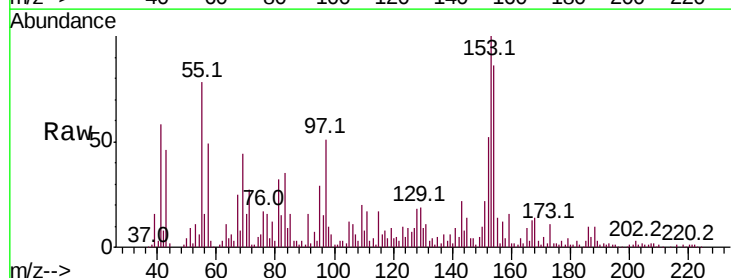
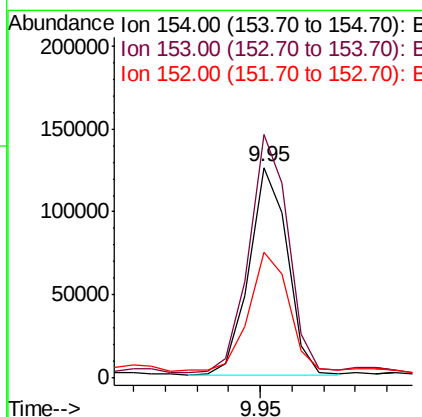
Manual Integrations  
APPROVED

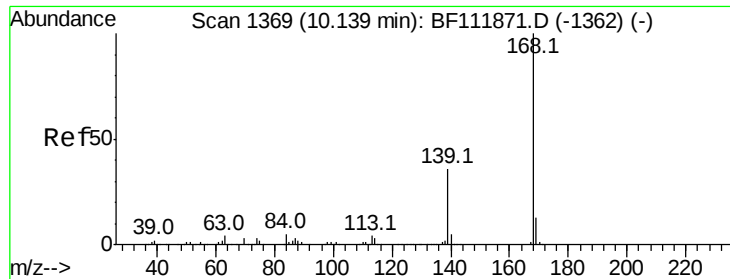
Sohil  
1/11/2019 4:42:53 PM



#52  
Acenaphthene  
Concen: 11.855 ng  
RT: 9.95 min Scan# 1337  
Delta R.T. -0.02 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 115.8 | 89.4  | 134.0 |
| 152     | 60.0  | 43.1  | 64.7  |





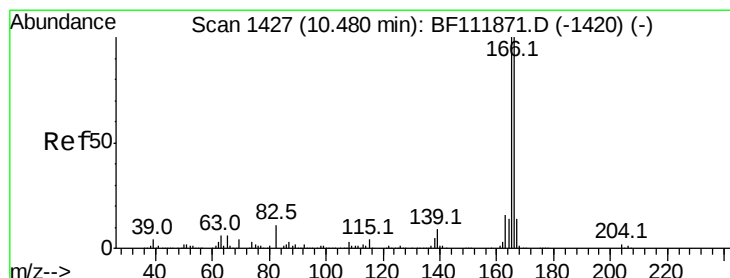
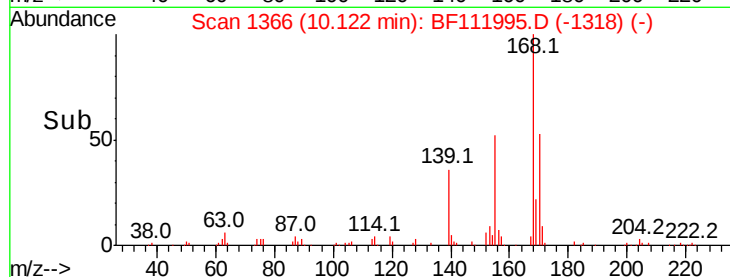
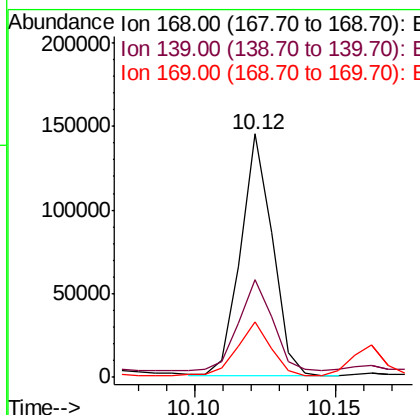
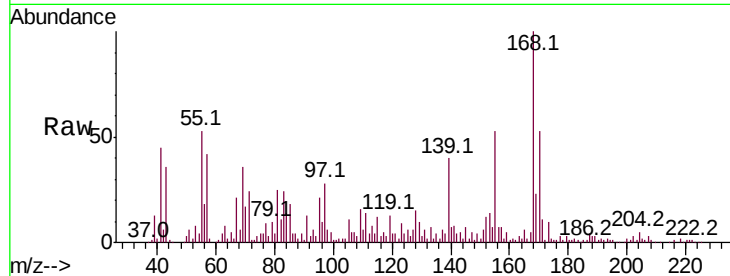
#55  
Dibenzenofuran  
Concen: 8.678 ng  
RT: 10.12 min Scan# 1366  
Delta R.T. -0.02 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-16(20-25)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 40.0  | 29.3  | 43.9  |
| 169     | 22.7  | 10.6  | 16.0  |

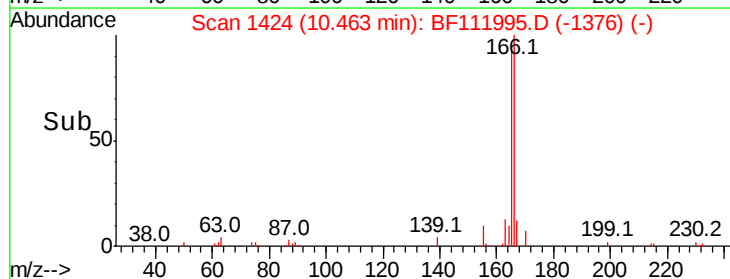
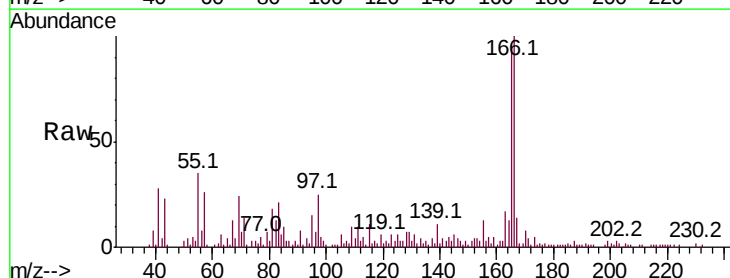
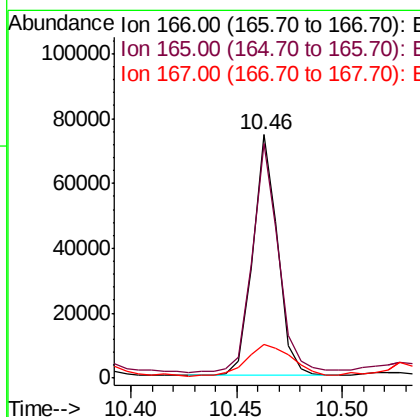
Manual Integrations  
APPROVED

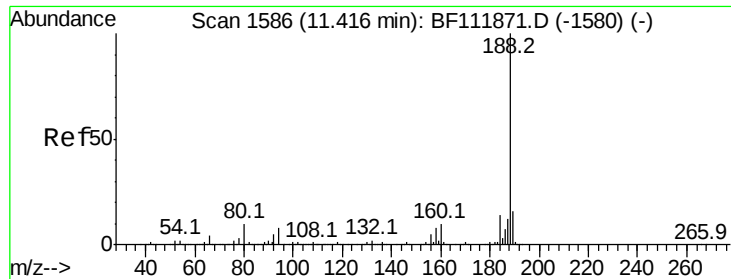
Sohil  
1/11/2019 4:42:53 PM



#58  
Fluorene  
Concen: 6.388 ng  
RT: 10.46 min Scan# 1424  
Delta R.T. -0.02 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.4  | 79.7  | 119.5 |
| 167     | 13.8  | 11.1  | 16.7  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.02 min

Lab File: BF111995.D

Acq: 10 Jan 2019 18:49

Instrument :

BNA\_F

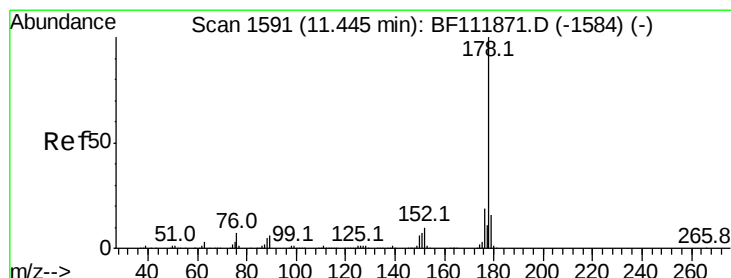
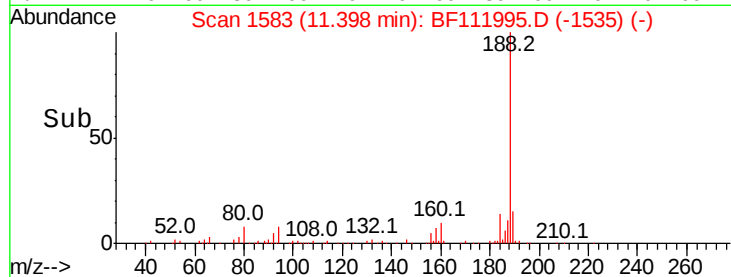
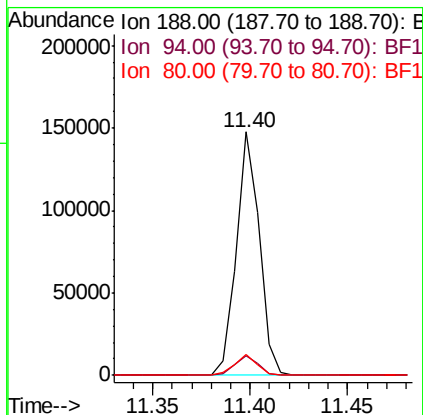
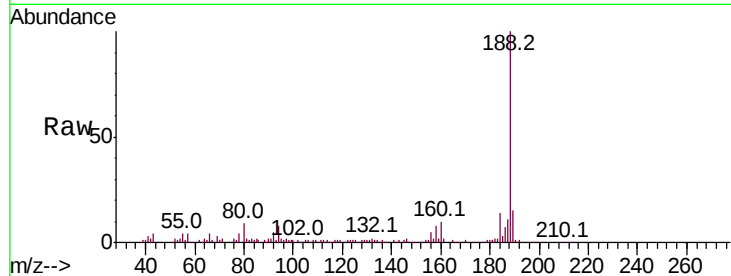
ClientSampleId :

CPSB-16(20-25)

|             |       |        |
|-------------|-------|--------|
| Tot Ion:188 | Resp: | 120368 |
| Ion Ratio   | Lower | Upper  |
| 188 100     |       |        |
| 94 8.0      | 6.6   | 10.0   |
| 80 8.8      | 7.7   | 11.5   |

Manual Integrations  
APPROVED

Sohil  
1/11/2019 4:42:53 PM



#71

Phenanthrene

Concen: 28.341 ng

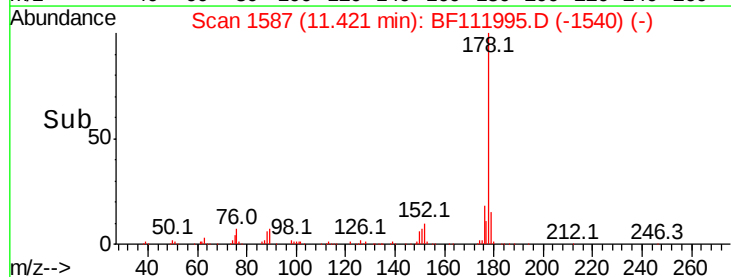
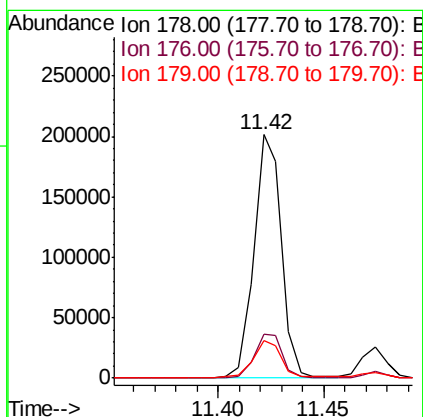
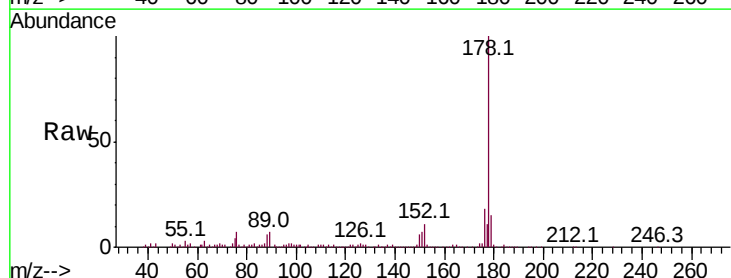
RT: 11.42 min Scan# 1587

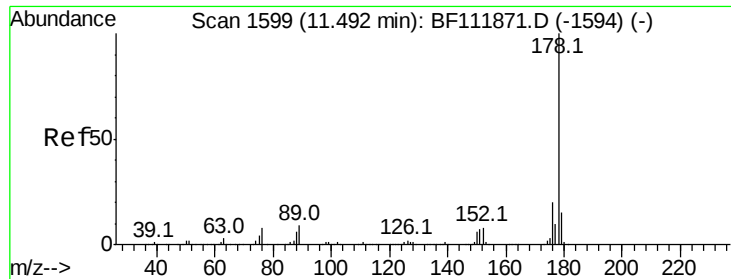
Delta R.T. -0.02 min

Lab File: BF111995.D

Acq: 10 Jan 2019 18:49

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:178 | Resp: | 182385 |
| Ion Ratio   | Lower | Upper  |
| 178 100     |       |        |
| 176 18.2    | 15.6  | 23.4   |
| 179 15.4    | 12.6  | 18.8   |





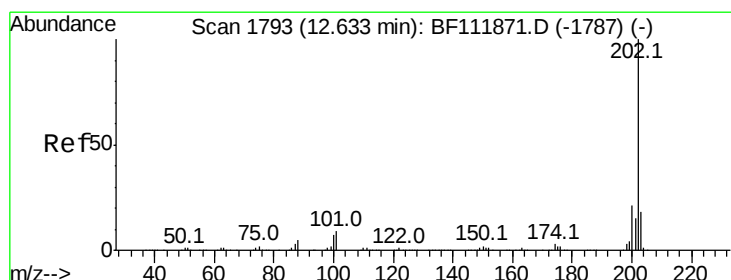
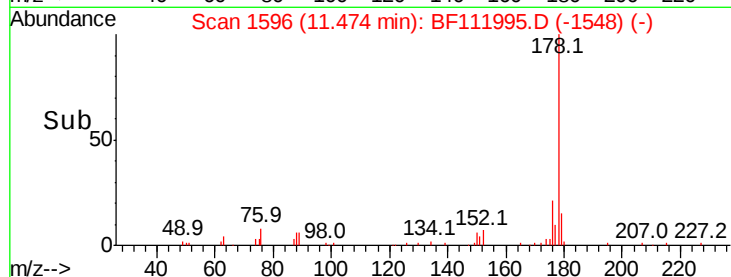
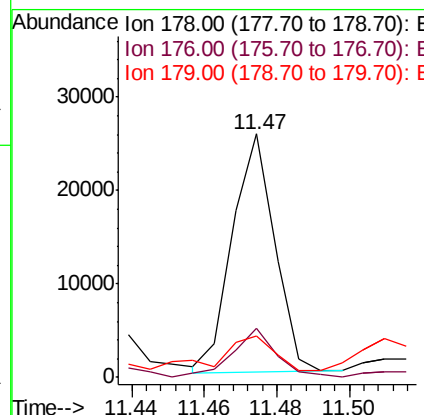
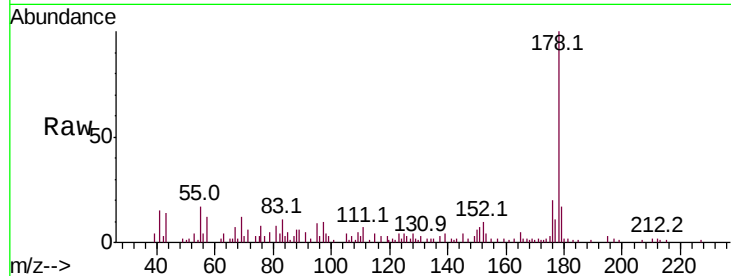
#72  
 Anthracene  
 Concen: 3.189 ng  
 RT: 11.47 min Scan# 1596  
 Delta R.T. -0.02 min  
 Lab File: BF111995.D  
 Acq: 10 Jan 2019 18:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CPSB-16(20-25)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.3  | 15.7  | 23.5  |
| 179     | 16.8  | 12.4  | 18.6  |

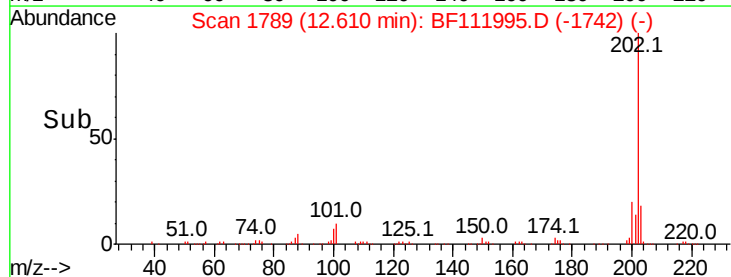
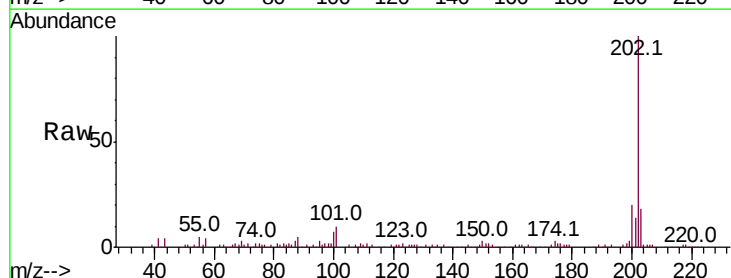
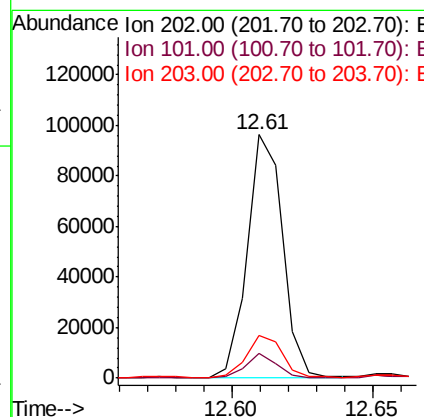
Manual Integrations  
 APPROVED

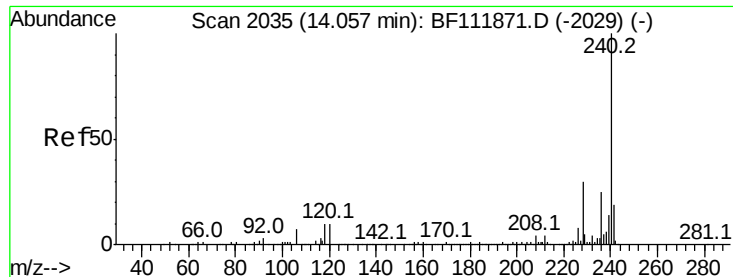
Sohil  
 1/11/2019 4:42:53 PM



#75  
 Fluoranthene  
 Concen: 12.703 ng  
 RT: 12.61 min Scan# 1789  
 Delta R.T. -0.02 min  
 Lab File: BF111995.D  
 Acq: 10 Jan 2019 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.4  | 0.0   | 29.3  |
| 203     | 17.6  | 0.0   | 37.6  |





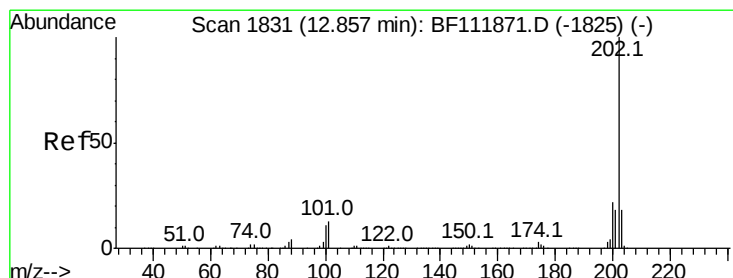
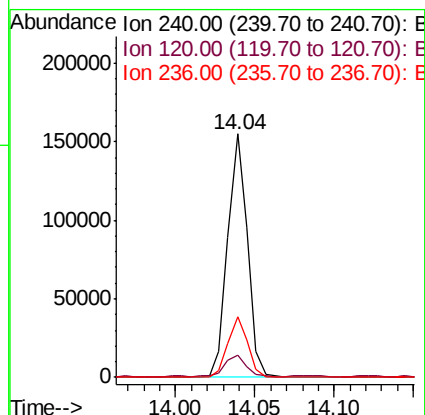
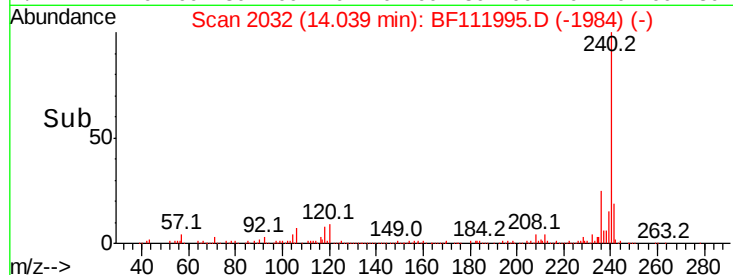
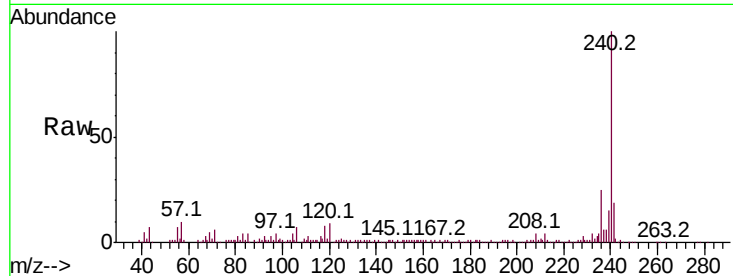
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.04 min Scan# 2032  
Delta R.T. -0.02 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-16(20-25)

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 240     | 100   |            |            |
| 120     | 8.9   | 8.2        | 12.2       |
| 236     | 24.9  | 20.2       | 30.4       |

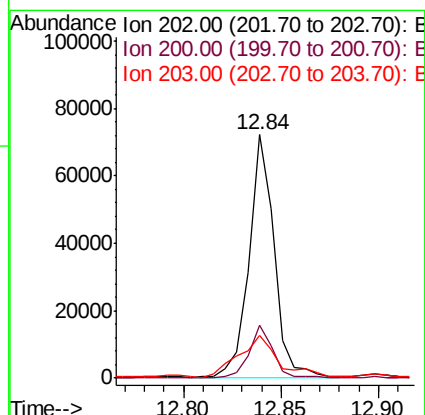
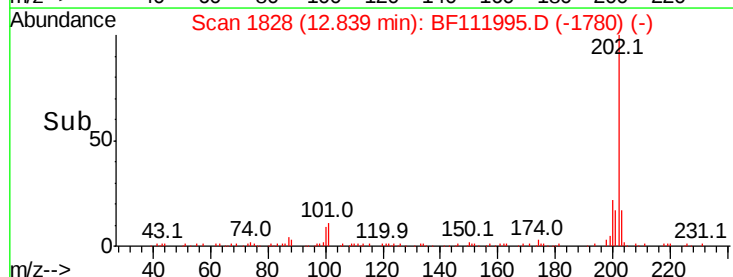
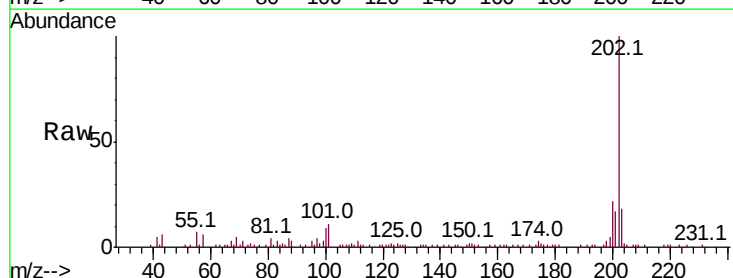
Manual Integrations  
APPROVED

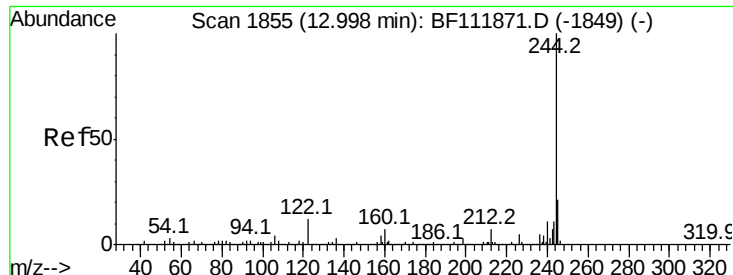
Sohil  
1/11/2019 4:42:53 PM



#78  
Pyrene  
Concen: 7.063 ng  
RT: 12.84 min Scan# 1828  
Delta R.T. -0.02 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 21.6  | 17.4       | 26.2       |
| 203     | 17.7  | 14.6       | 21.8       |





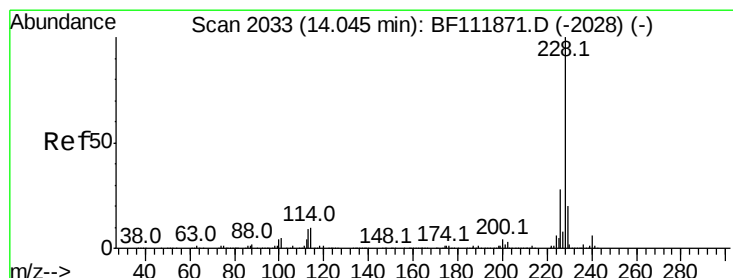
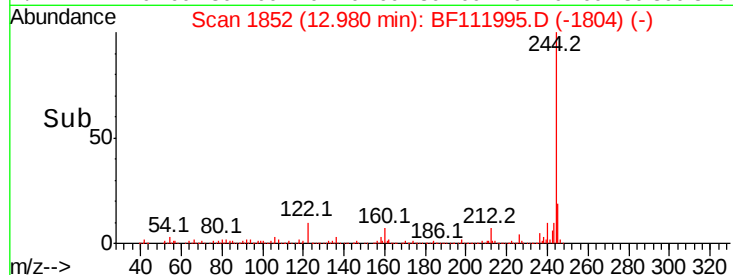
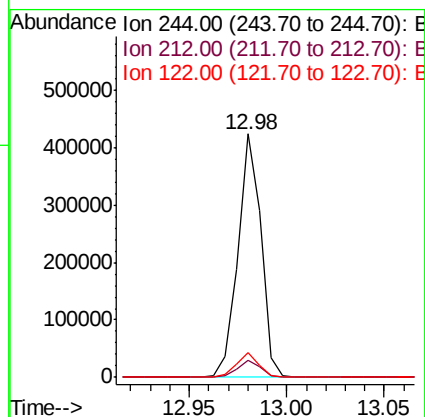
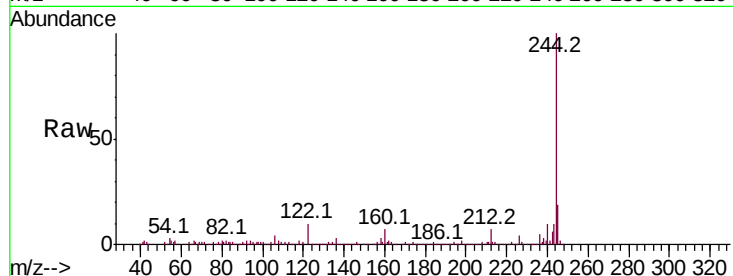
#79  
 Terphenyl-d14  
 Concen: 49.139 ng  
 RT: 12.98 min Scan# 1852  
 Delta R.T. -0.02 min  
 Lab File: BF111995.D  
 Acq: 10 Jan 2019 18:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CPSB-16(20-25)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.8   | 5.8        | 8.8   |
| 122     | 10.1  | 9.5        | 14.3  |

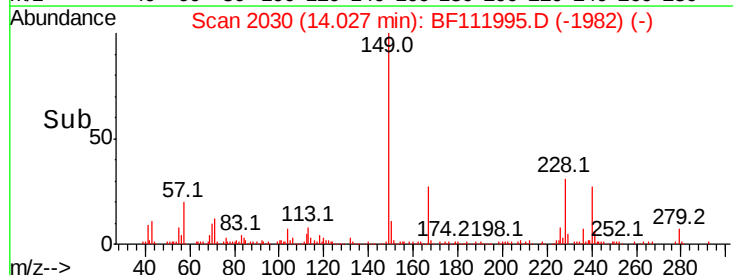
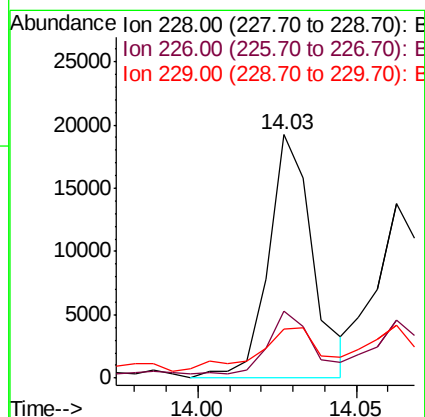
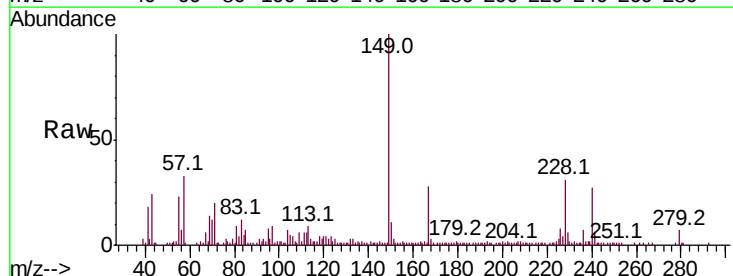
Manual Integrations  
 APPROVED

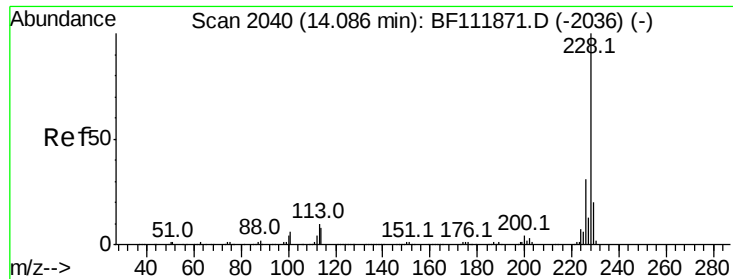
Sohil  
 1/11/2019 4:42:53 PM



#81  
 Benzo(a)anthracene  
 Concen: 2.437 ng  
 RT: 14.03 min Scan# 2030  
 Delta R.T. -0.02 min  
 Lab File: BF111995.D  
 Acq: 10 Jan 2019 18:49

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 226     | 27.4  | 22.2       | 33.2  |
| 229     | 20.3  | 16.2       | 24.2  |





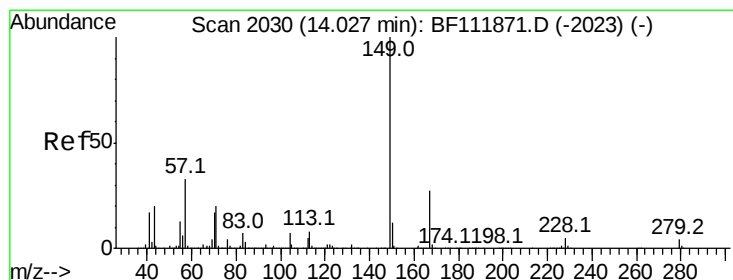
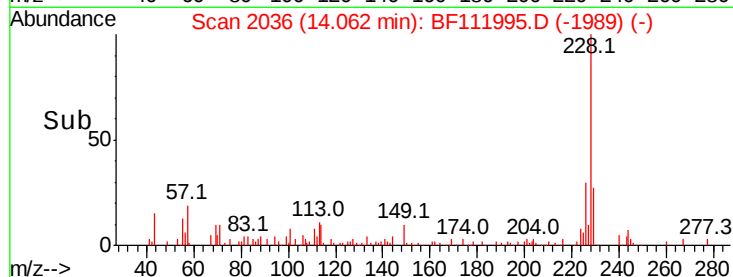
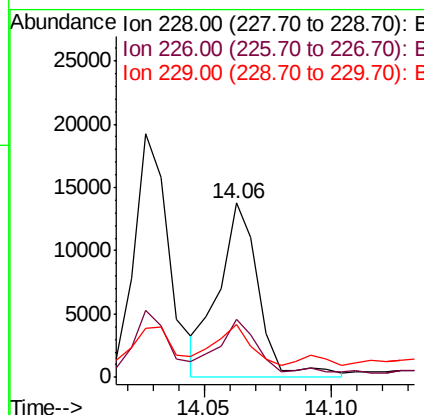
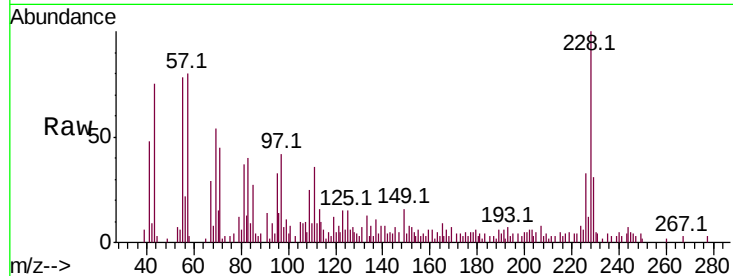
#83  
 Chrysene  
 Concen: 2.068 ng/ml  
 RT: 14.06 min Scan# 2036  
 Delta R.T. -0.02 min  
 Lab File: BF111995.D  
 Acq: 10 Jan 2019 18:49

Instrument :  
 BNA\_F  
 ClientSampleID :  
 CPSB-16(20-25)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.3  | 24.6  | 37.0  |
| 229     | 30.5  | 15.7  | 23.5  |

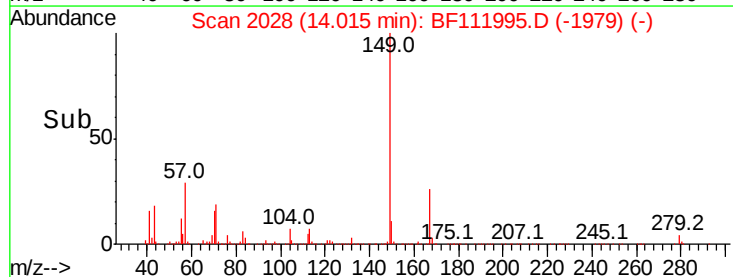
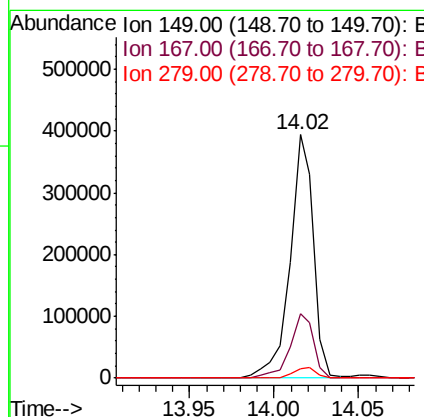
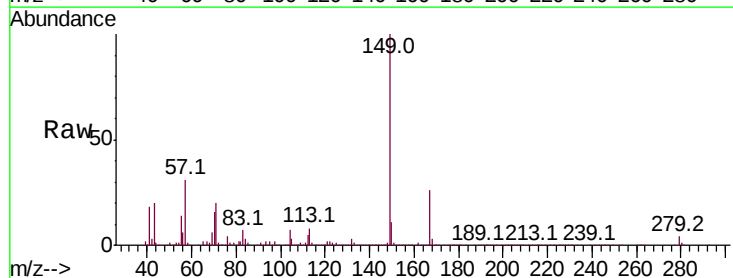
Manual Integrations  
 APPROVED

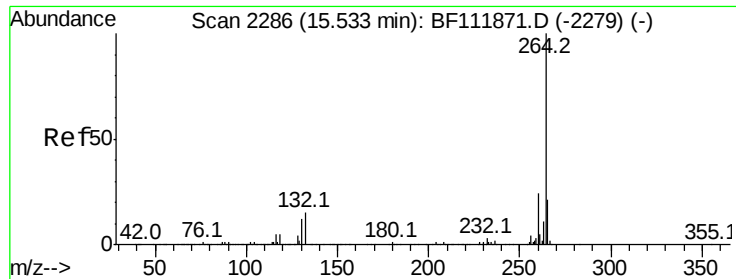
Sohil  
 1/11/2019 4:42:53 PM



#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 73.873 ng  
 RT: 14.02 min Scan# 2028  
 Delta R.T. -0.01 min  
 Lab File: BF111995.D  
 Acq: 10 Jan 2019 18:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.3  | 21.5  | 32.3  |
| 279     | 3.7   | 3.0   | 4.6   |





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.53 min Scan# 2285  
Delta R.T. -0.01 min  
Lab File: BF111995.D  
Acq: 10 Jan 2019 18:49

Instrument :  
BNA\_F  
ClientSampleId :  
CPSB-16(20-25)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 22.5  | 19.2       | 28.8  |
| 265     | 21.7  | 17.1       | 25.7  |

Manual Integrations  
APPROVED

Sohil  
1/11/2019 4:42:53 PM

