

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM121721\  
 Data File : BM033508.D  
 Acq On : 17 Dec 2021 16:28  
 Operator : CG/JU  
 Sample : M5051-05  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 P-1

Quant Time: Dec 18 04:52:17 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM121621.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 16 17:10:15 2021  
 Response via : Initial Calibration

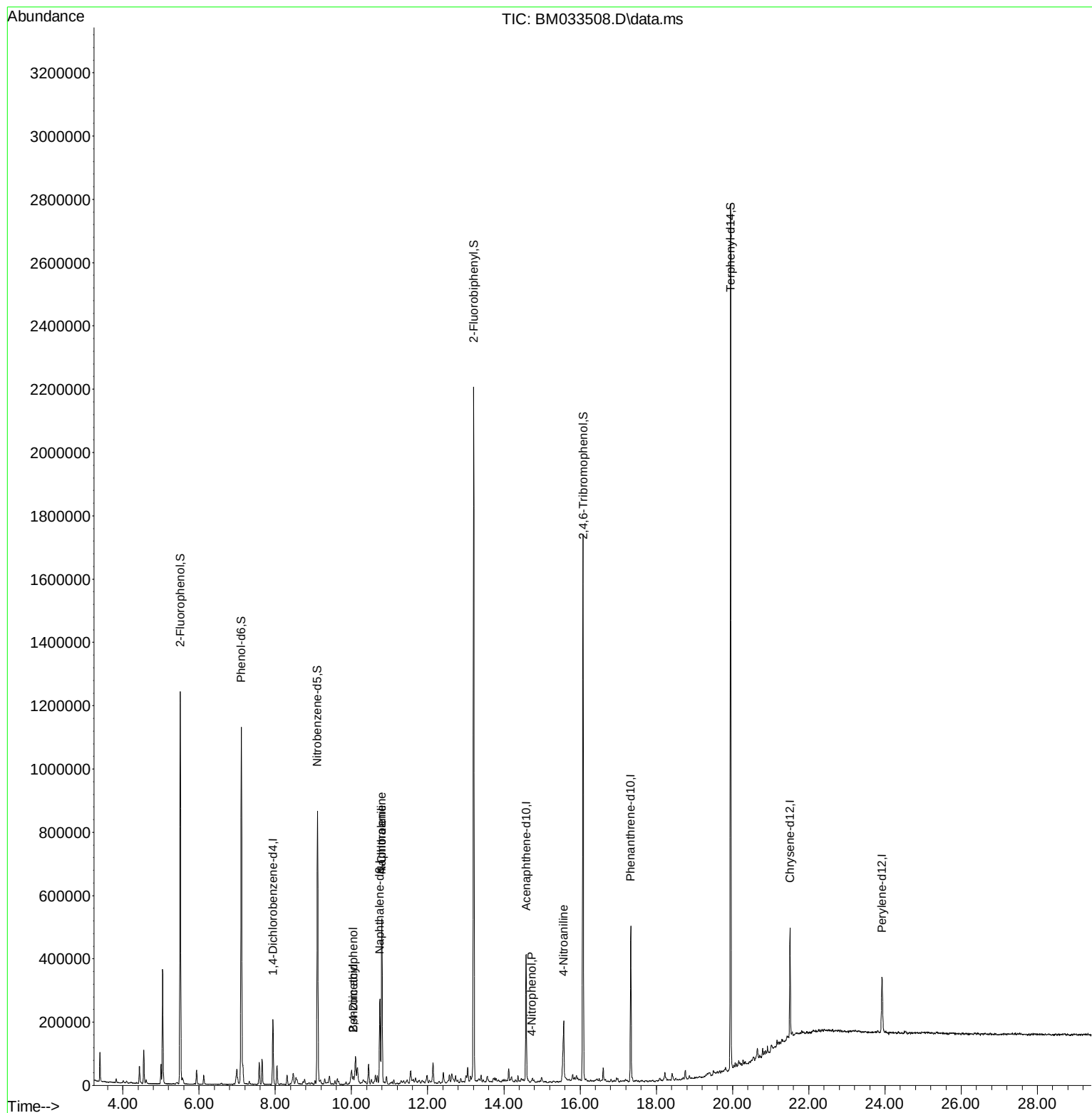
| Compound                    | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-----------|-------|----------|
| -----                       |        |      |          |           |       |          |
| Internal Standards          |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.936  | 152  | 45945    | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.748 | 136  | 192273   | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.583 | 164  | 131444   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.330 | 188  | 267480   | 20.000    | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.506 | 240  | 160077   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12            | 23.918 | 264  | 132510   | 20.000    | ng    | -0.02    |
| System Monitoring Compounds |        |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.507  | 112  | 417283   | 156.718   | ng    | 0.00     |
| 7) Phenol-d6                | 7.107  | 99   | 513140   | 143.605   | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.107  | 82   | 472568   | 105.532   | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.077 | 330  | 232779   | 157.432   | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.207 | 172  | 984443   | 103.602   | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.953 | 244  | 1162854  | 114.365   | ng    | 0.00     |
| Target Compounds            |        |      |          |           |       |          |
|                             |        |      |          |           |       | Qvalue   |
| 2) 1,4-Dioxane              | 3.390  | 88   | 113      | Below Cal | #     | 1        |
| 9) Benzaldehyde             | 7.078  | 77   | 892      | Below Cal | #     | 1        |
| 27) 2,4-Dimethylphenol      | 10.048 | 122  | 7957     | 3.151 ng  | #     | 1        |
| 31) Naphthalene             | 10.795 | 128  | 362952   | 34.847 ng | #     | 99       |
| 32) Benzoic acid            | 10.048 | 122  | 7957     | 7.203 ng  | #     | 89       |
| 33) 4-Chloroaniline         | 10.795 | 127  | 48992    | 14.539 ng | #     | 30       |
| 56) 4-Nitrophenol           | 14.724 | 139  | 214      | 4.144 ng  | #     | 87       |
| 62) 4-Nitroaniline          | 15.571 | 138  | 182      | 2.662 ng  | #     | 40       |
| -----                       |        |      |          |           |       |          |

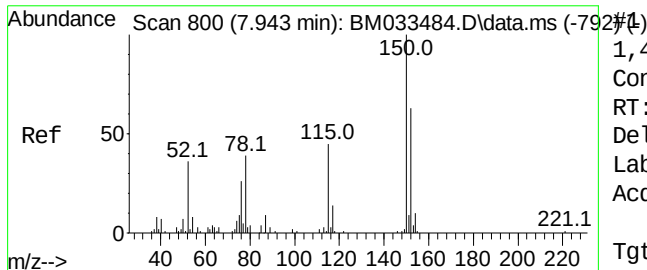
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM121721\  
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BNA\_M  
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Quant Time: Dec 18 04:52:17 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM121621.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 16 17:10:15 2021  
Response via : Initial Calibration





1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.936 min Scan#

Delta R.T. -0.007 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

Instrument :

BNA\_M

ClientSampleId :

P-1

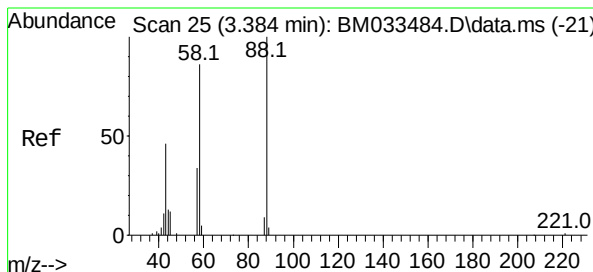
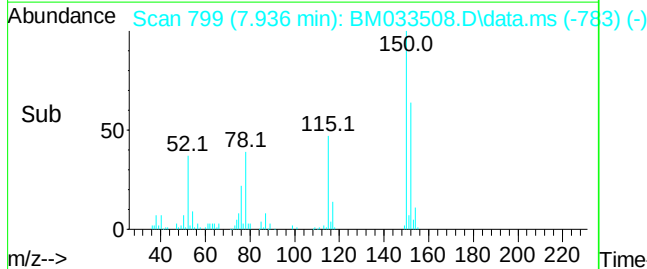
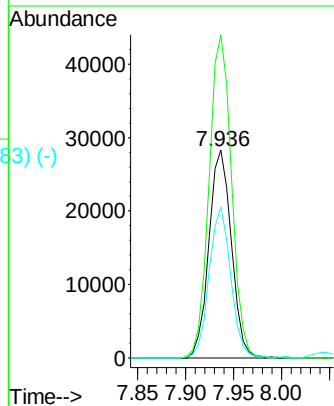
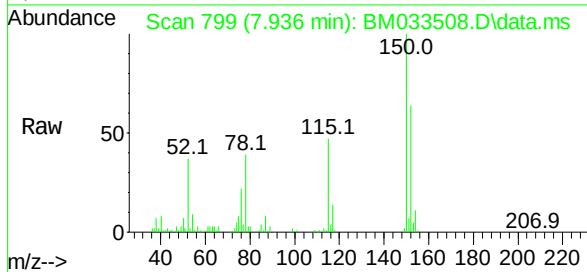
Tgt Ion:152 Resp: 45945

Ion Ratio Lower Upper

152 100

150 155.6 128.9 193.3

115 72.7 53.0 79.6



1,4-Dioxane

Concen: Below Cal

RT: 3.390 min Scan# 26

Delta R.T. 0.006 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

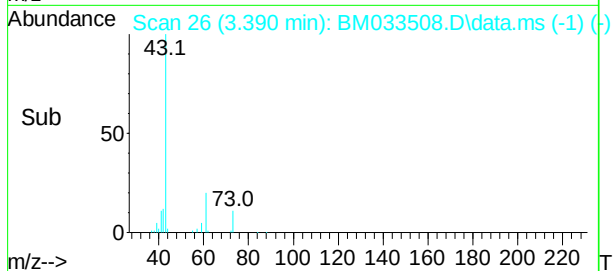
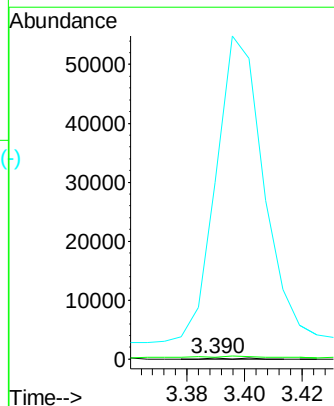
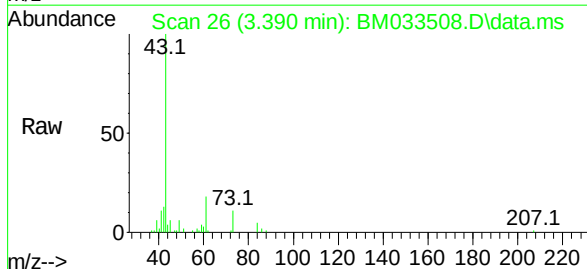
Tgt Ion: 88 Resp: 113

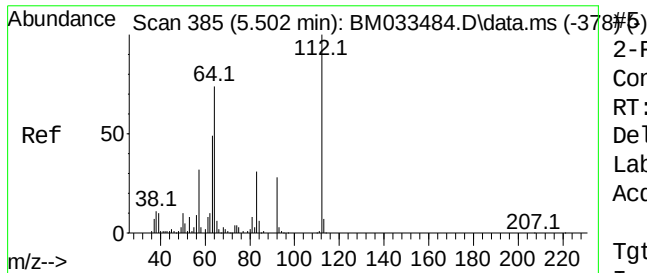
Ion Ratio Lower Upper

88 100

58 553.1 67.0 100.4#

43 54685.0 31.6 47.4#





2-Fluorophenol

Concen: 156.718 ng

RT: 5.507 min Scan#

Delta R.T. 0.005 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

Instrument :

BNA\_M

ClientSampleId :

P-1

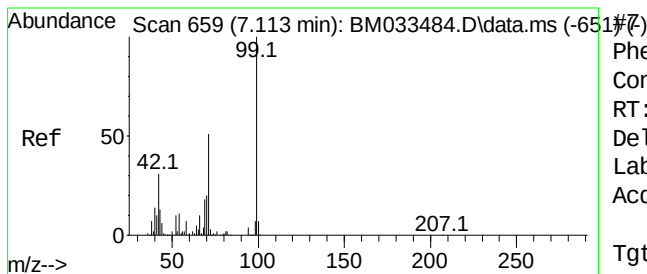
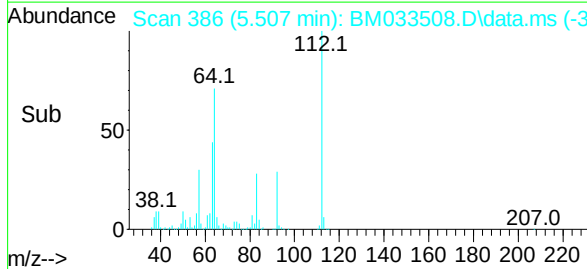
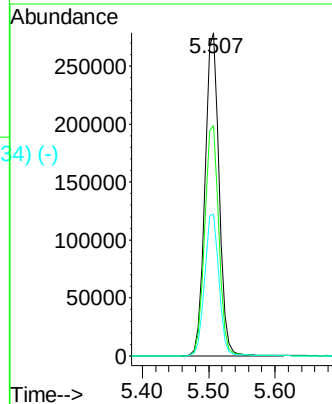
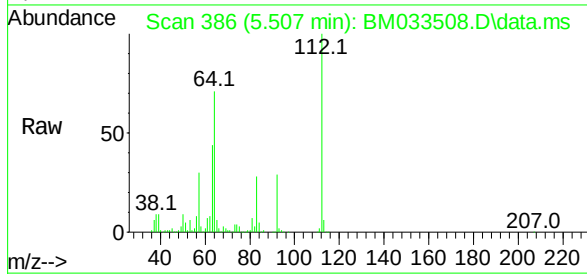
Tgt Ion:112 Resp: 417283

Ion Ratio Lower Upper

112 100

64 71.2 55.5 83.3

63 44.0 31.3 46.9



Phenol-d6

Concen: 143.605 ng

RT: 7.107 min Scan# 658

Delta R.T. -0.006 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

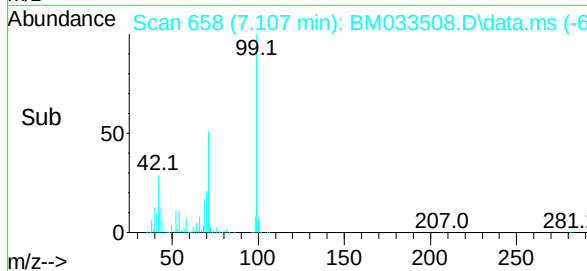
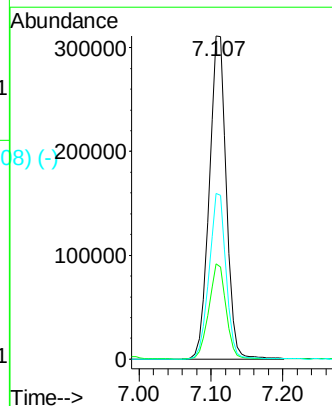
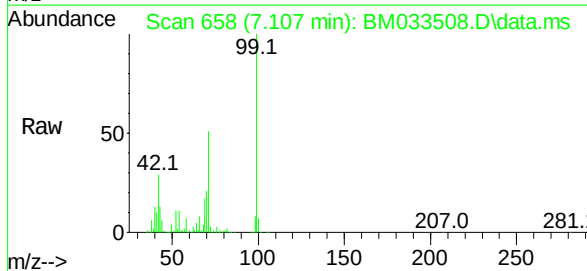
Tgt Ion: 99 Resp: 513140

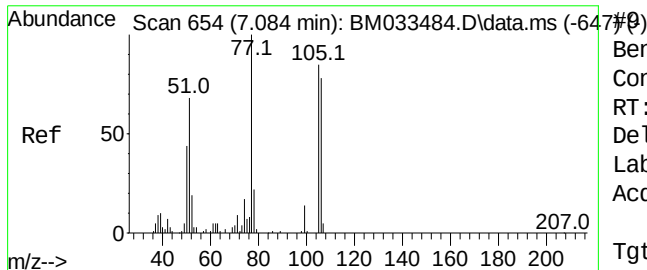
Ion Ratio Lower Upper

99 100

42 29.5 20.3 30.5

71 51.3 34.5 51.7





Benzaldehyde

Concen: Below Cal

RT: 7.078 min Scan#

Delta R.T. -0.006 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

Instrument :

BNA\_M

ClientSampleId :

P-1

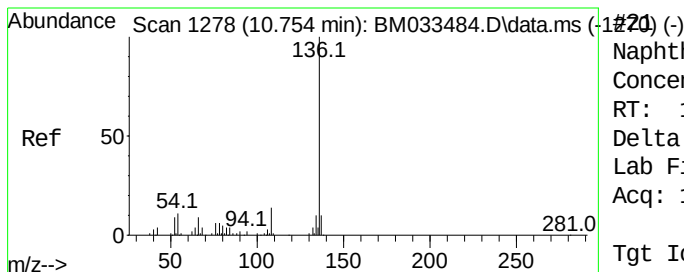
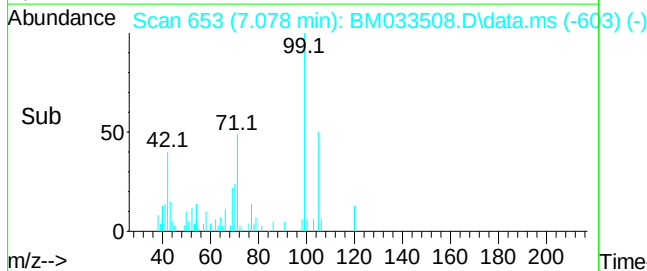
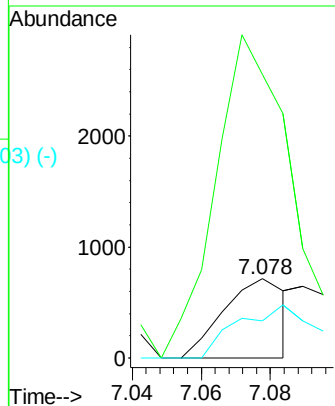
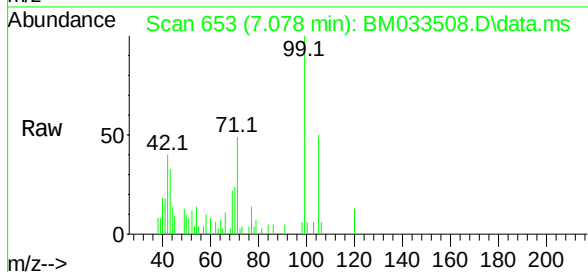
Tgt Ion: 77 Resp: 892

Ion Ratio Lower Upper

77 100

105 357.6 67.1 107.1#

106 46.4 64.3 104.3#



Naphthalene-d8

Concen: 20.000 ng

RT: 10.748 min Scan# 1277

Delta R.T. -0.006 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

Tgt Ion:136 Resp: 192273

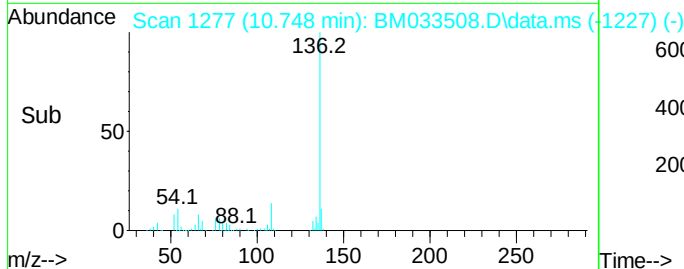
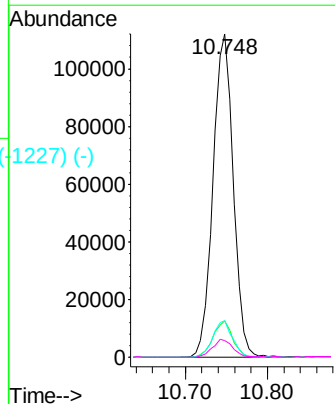
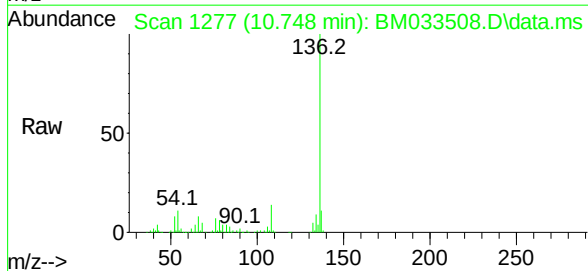
Ion Ratio Lower Upper

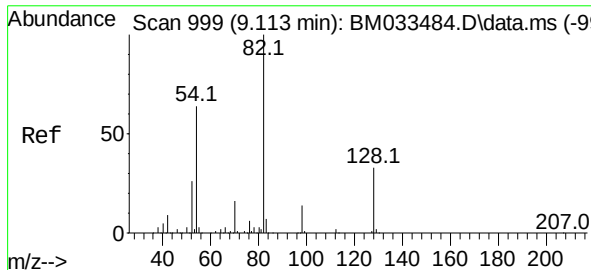
136 100

137 11.2 8.6 13.0

54 11.2 8.3 12.5

68 5.1 5.0 7.6





Nitrobenzene-d5

Concen: 105.532 ng

RT: 9.107 min Scan#

Delta R.T. -0.006 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

Instrument :

BNA\_M

ClientSampleId :

P-1

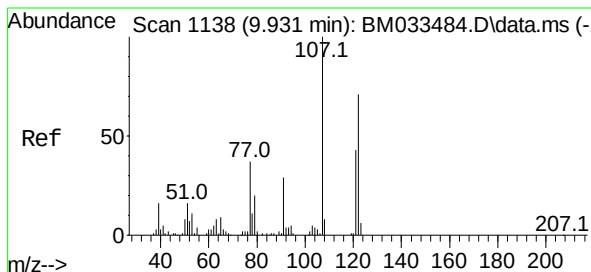
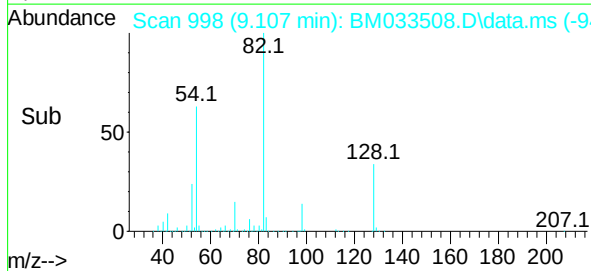
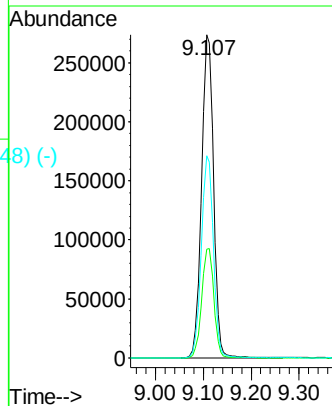
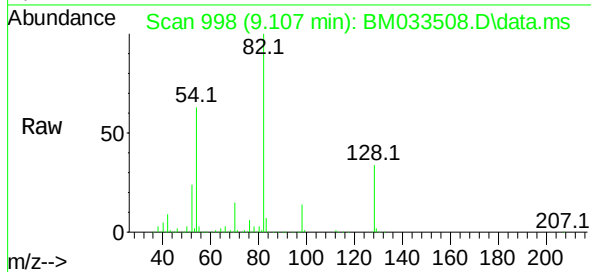
Tgt Ion: 82 Resp: 472568

Ion Ratio Lower Upper

82 100

128 33.6 28.1 42.1

54 62.5 46.1 69.1



2,4-Dimethylphenol

Concen: 3.151 ng

RT: 10.048 min Scan# 1158

Delta R.T. 0.117 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

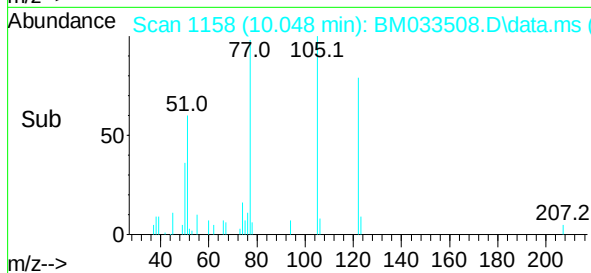
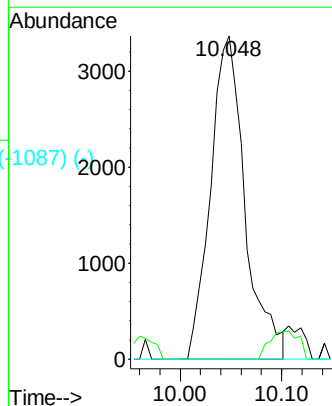
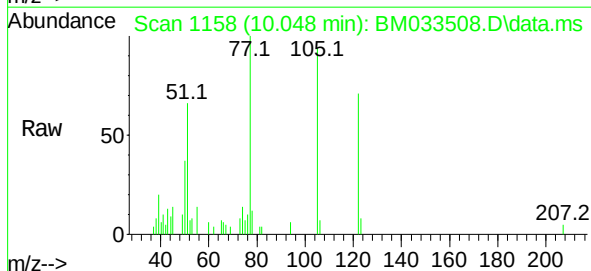
Tgt Ion:122 Resp: 7957

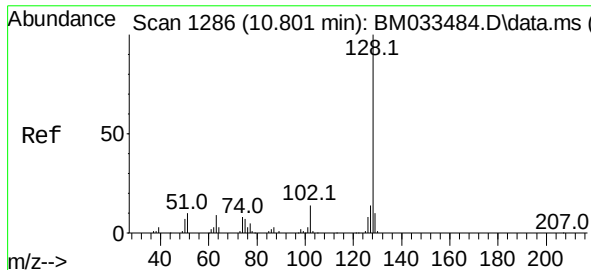
Ion Ratio Lower Upper

122 100

107 0.0 105.3 157.9#

121 0.0 49.7 74.5#

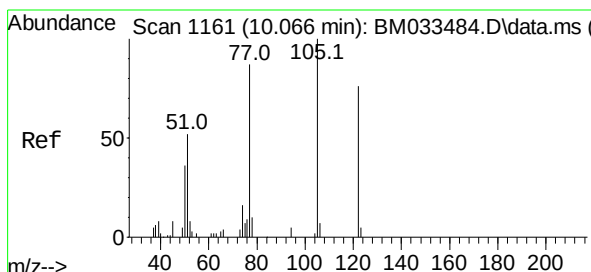
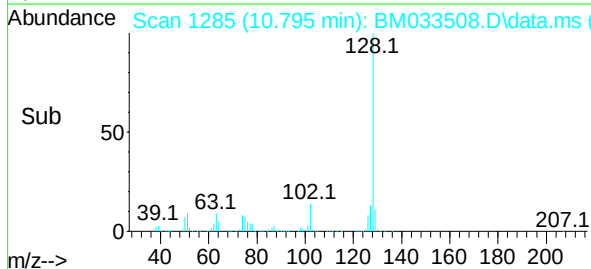
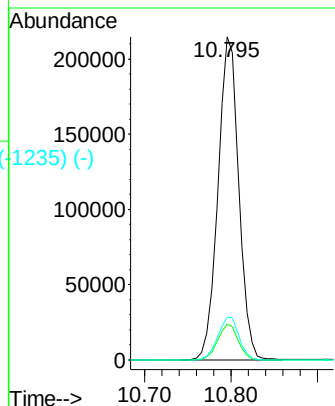
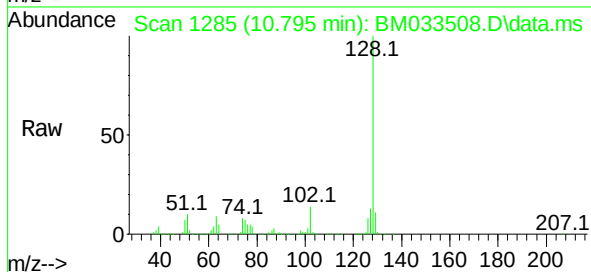




Naphthalene  
Concen: 34.847 ng  
RT: 10.795 min Scan# 1285  
Delta R.T. -0.006 min  
Lab File: BM033508.D  
Acq: 17 Dec 2021 16:28

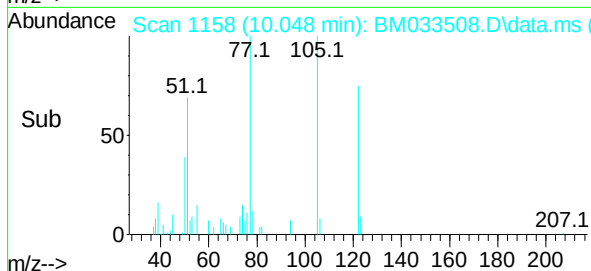
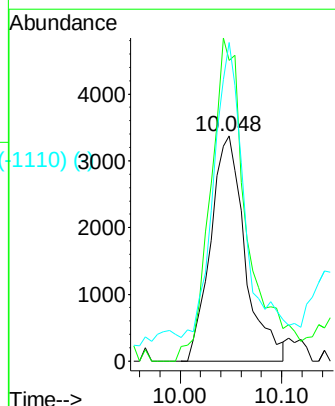
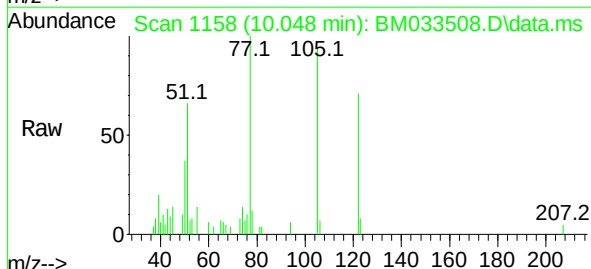
Instrument :  
BNA\_M  
ClientSampleId :  
P-1

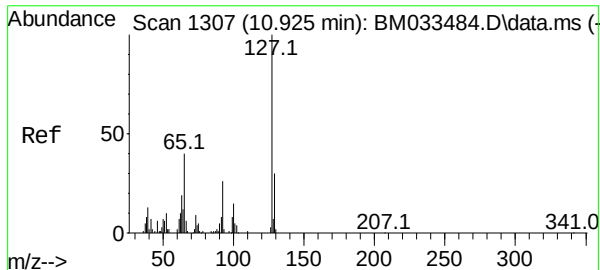
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 362952 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 129      | 11.1  | 8.5   | 12.7   |
| 127      | 13.3  | 10.8  | 16.2   |



Benzoic acid  
Concen: 7.203 ng  
RT: 10.048 min Scan# 1158  
Delta R.T. -0.018 min  
Lab File: BM033508.D  
Acq: 17 Dec 2021 16:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 122   | Resp: | 7957   |
| Ion      | Ratio | Lower | Upper  |
| 122      | 100   |       |        |
| 105      | 133.6 | 119.6 | 159.6  |
| 77       | 141.7 | 101.0 | 141.0# |

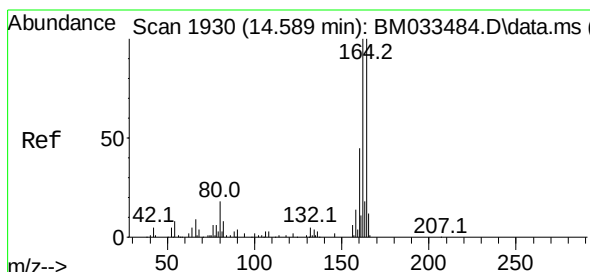
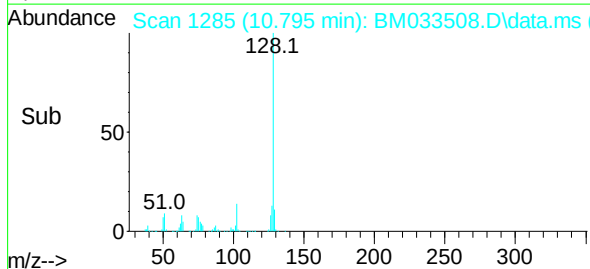
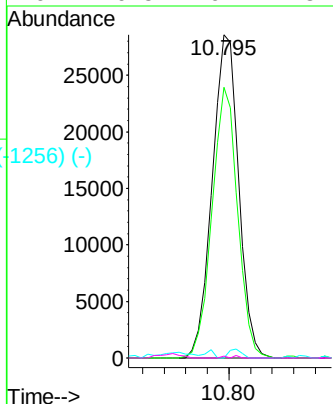
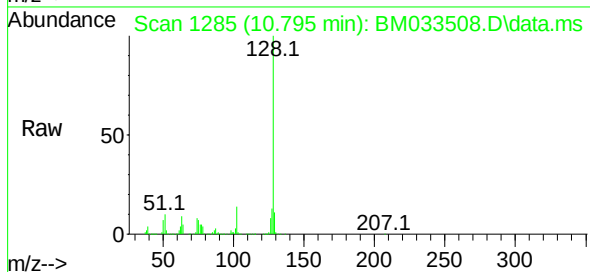




4-Chloroaniline  
Concen: 14.539 ng  
RT: 10.795 min Scan# 1285  
Delta R.T. -0.130 min  
Lab File: BM033508.D  
Acq: 17 Dec 2021 16:28

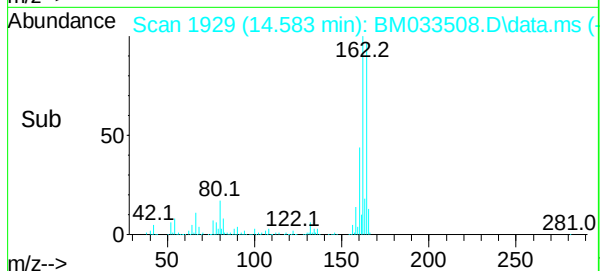
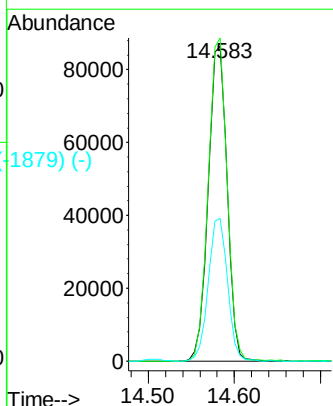
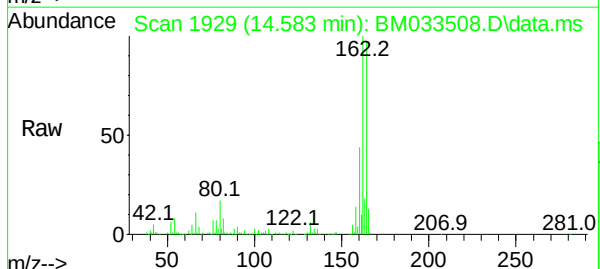
Instrument :  
BNA\_M  
ClientSampleId :  
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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 48992 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 83.7  | 26.2  | 39.4# |
| 65       | 0.0   | 33.0  | 49.6# |
| 92       | 0.5   | 19.2  | 28.8# |



Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.583 min Scan# 1929  
Delta R.T. -0.006 min  
Lab File: BM033508.D  
Acq: 17 Dec 2021 16:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 131444 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 162      | 102.7 | 79.7  | 119.5  |
| 160      | 45.3  | 34.2  | 51.4   |





Abundance Scan 2183 (16.077 min): BM033484.D\data.ms (-1645) (-)

2,4,6-Tribromophenol

Concen: 157.432 ng

RT: 16.077 min Scan# 2183

Delta R.T. 0.000 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

Instrument :

BNA\_M

ClientSampleId :

P-1

Tgt Ion:330 Resp: 232779

Ion Ratio Lower Upper

330 100

332 96.8 76.5 114.7

141 53.9 35.9 53.9#

Abundance Scan 2183 (16.077 min): BM033508.D\data.ms

Ref

62.1 143.0 222.9 329.8

104.0 281.0

m/z-->

Abundance Scan 2183 (16.077 min): BM033508.D\data.ms

Raw

62.1 141.0 222.9 329.8

103.0 181.1

m/z-->

Abundance Scan 2183 (16.077 min): BM033508.D\data.ms (-2132) (-)

Sub

62.1 141.0 222.9 329.8

103.0 181.1

m/z-->

Abundance

150000

100000

50000

0

16.077

Time-->

Abundance Scan 1696 (13.213 min): BM033484.D\data.ms (-1645) (-)

2-Fluorobiphenyl

Concen: 103.602 ng

RT: 13.207 min Scan# 1695

Delta R.T. -0.006 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

Tgt Ion:172 Resp: 984443

Ion Ratio Lower Upper

172 100

171 35.5 27.2 40.8

170 23.2 18.7 28.1

Abundance Scan 1695 (13.207 min): BM033508.D\data.ms

Ref

172.1

39.1 75.1 133.1 281.1

m/z-->

Abundance Scan 1695 (13.207 min): BM033508.D\data.ms

Raw

172.1

51.1 85.1 133.1 207.2

m/z-->

Abundance Scan 1695 (13.207 min): BM033508.D\data.ms (-1645) (-)

Sub

172.1

39.0 75.1 133.1

m/z-->

Abundance

600000

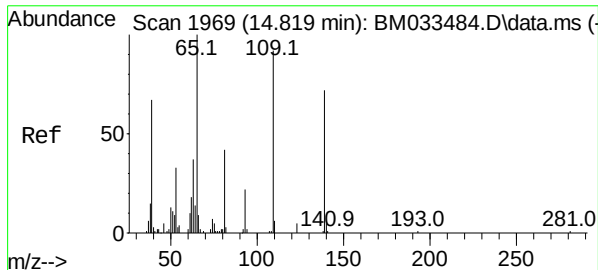
400000

200000

0

13.207

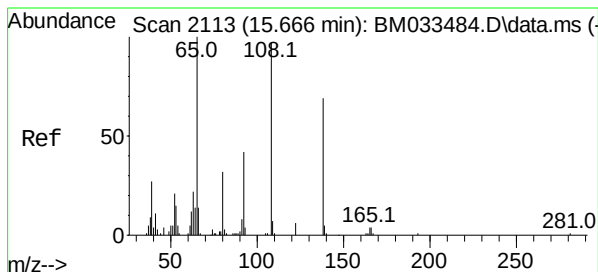
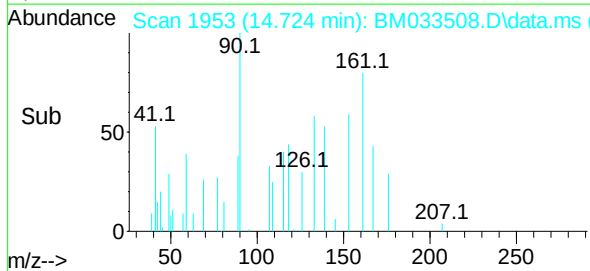
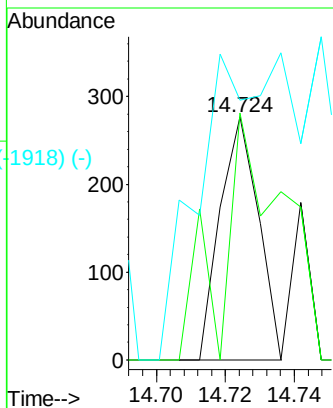
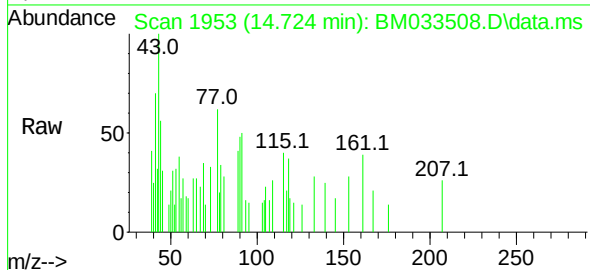
Time-->



4-Nitrophenol  
 Concen: 4.144 ng  
 RT: 14.724 min Scan# 1953  
 Delta R.T. -0.095 min  
 Lab File: BM033508.D  
 Acq: 17 Dec 2021 16:28

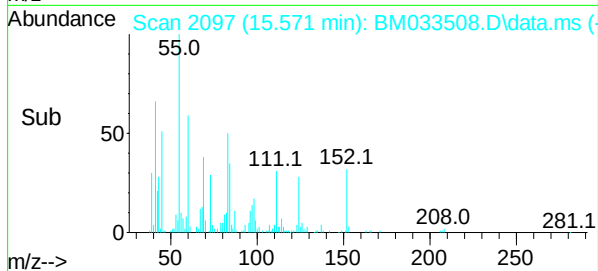
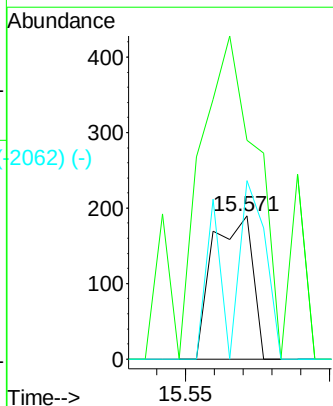
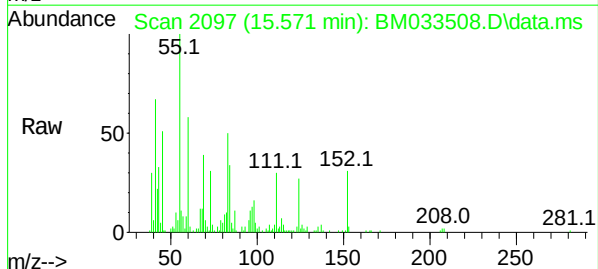
Instrument :  
 BNA\_M  
 ClientSampleId :  
 P-1

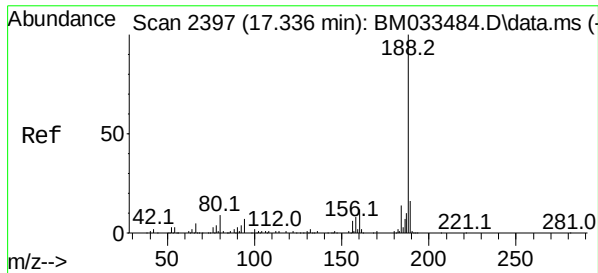
Tgt Ion:139 Resp: 214  
 Ion Ratio Lower Upper  
 139 100  
 109 101.4 75.3 115.3  
 65 106.9 107.4 147.4#



4-Nitroaniline  
 Concen: 2.662 ng  
 RT: 15.571 min Scan# 2097  
 Delta R.T. -0.095 min  
 Lab File: BM033508.D  
 Acq: 17 Dec 2021 16:28

Tgt Ion:138 Resp: 182  
 Ion Ratio Lower Upper  
 138 100  
 92 152.6 38.7 78.7#  
 108 124.2 81.9 121.9#





Phenanthrene-d10

Concen: 20.000 ng

RT: 17.330 min Scan# 2397

Delta R.T. -0.006 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

Instrument :

BNA\_M

ClientSampleId :

P-1

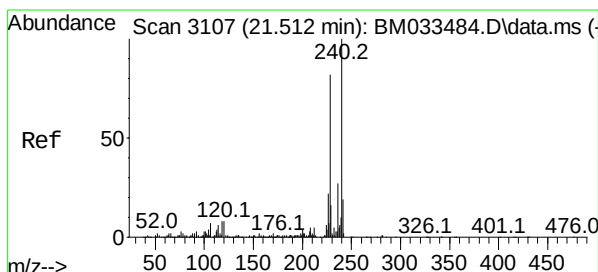
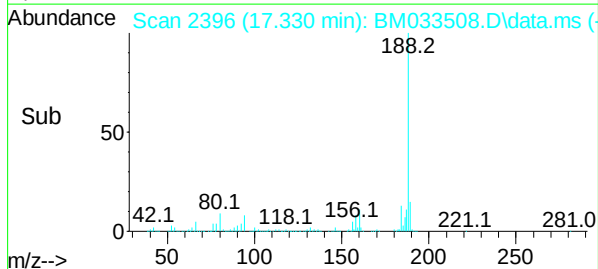
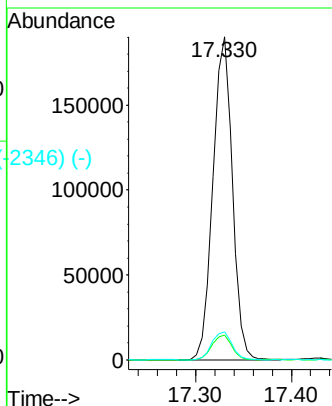
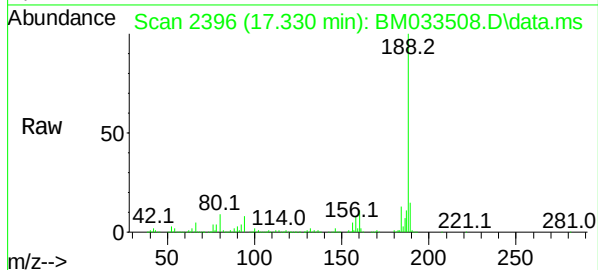
Tgt Ion:188 Resp: 267480

Ion Ratio Lower Upper

188 100

94 7.8 7.5 11.3

80 8.8 8.9 13.3#



Chrysene-d12

Concen: 20.000 ng

RT: 21.506 min Scan# 3106

Delta R.T. -0.006 min

Lab File: BM033508.D

Acq: 17 Dec 2021 16:28

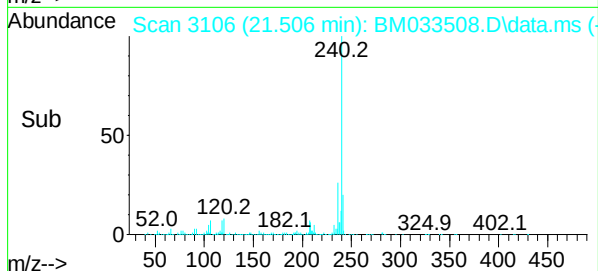
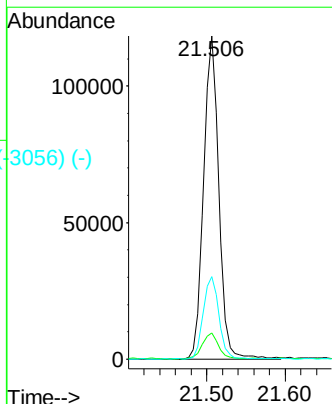
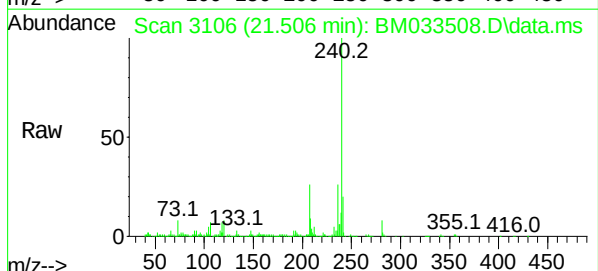
Tgt Ion:240 Resp: 160077

Ion Ratio Lower Upper

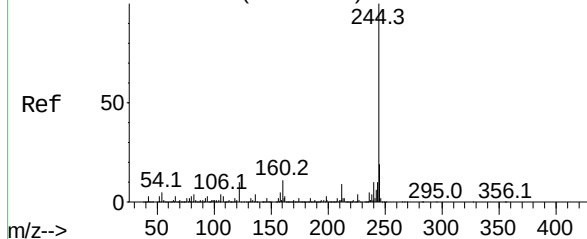
240 100

120 8.0 7.8 11.6

236 25.6 20.3 30.5



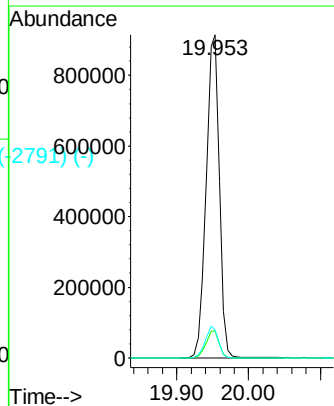
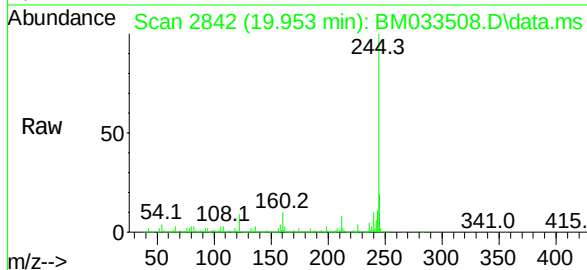
Abundance Scan 2842 (19.954 min): BM033484.D\data.ms (-279) (-)



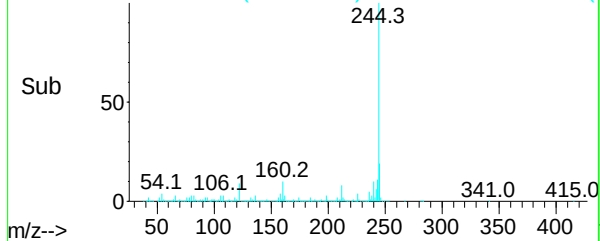
Terphenyl-d14  
Concen: 114.365 ng  
RT: 19.953 min Scan# 279  
Delta R.T. -0.001 min  
Lab File: BM033508.D  
Acq: 17 Dec 2021 16:28

Instrument :  
BNA\_M  
ClientSampleId :  
P-1

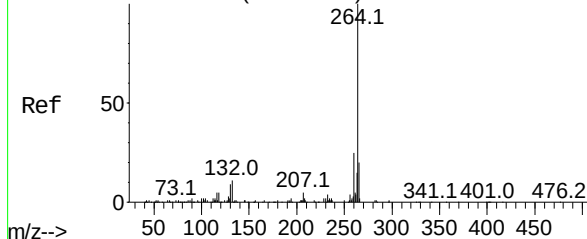
Tgt Ion:244 Resp: 1162854  
Ion Ratio Lower Upper  
244 100  
212 8.2 5.9 8.9  
122 8.8 8.4 12.6



Abundance Scan 2842 (19.953 min): BM033508.D\data.ms (-279) (-)

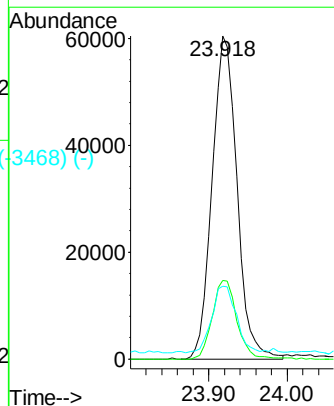
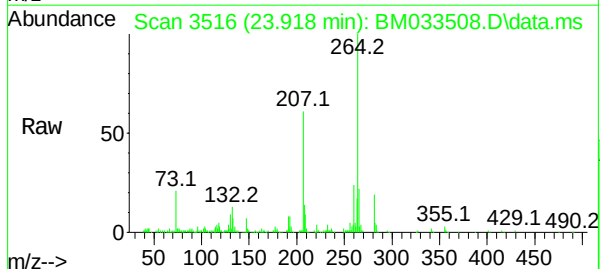


Abundance Scan 3519 (23.936 min): BM033484.D\data.ms (-346) (-)



Perylene-d12  
Concen: 20.000 ng  
RT: 23.918 min Scan# 3516  
Delta R.T. -0.018 min  
Lab File: BM033508.D  
Acq: 17 Dec 2021 16:28

Tgt Ion:264 Resp: 132510  
Ion Ratio Lower Upper  
264 100  
260 24.2 17.7 26.5  
265 22.5 17.7 26.5



Abundance Scan 3516 (23.918 min): BM033508.D\data.ms (-346) (-)

