

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020524\  
 Data File : BF137284.D  
 Acq On : 05 Feb 2024 19:19  
 Operator : CG\JU  
 Sample : P1141-05  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 06 01:16:59 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF013024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 31 04:56:22 2024  
 Response via : Initial Calibration

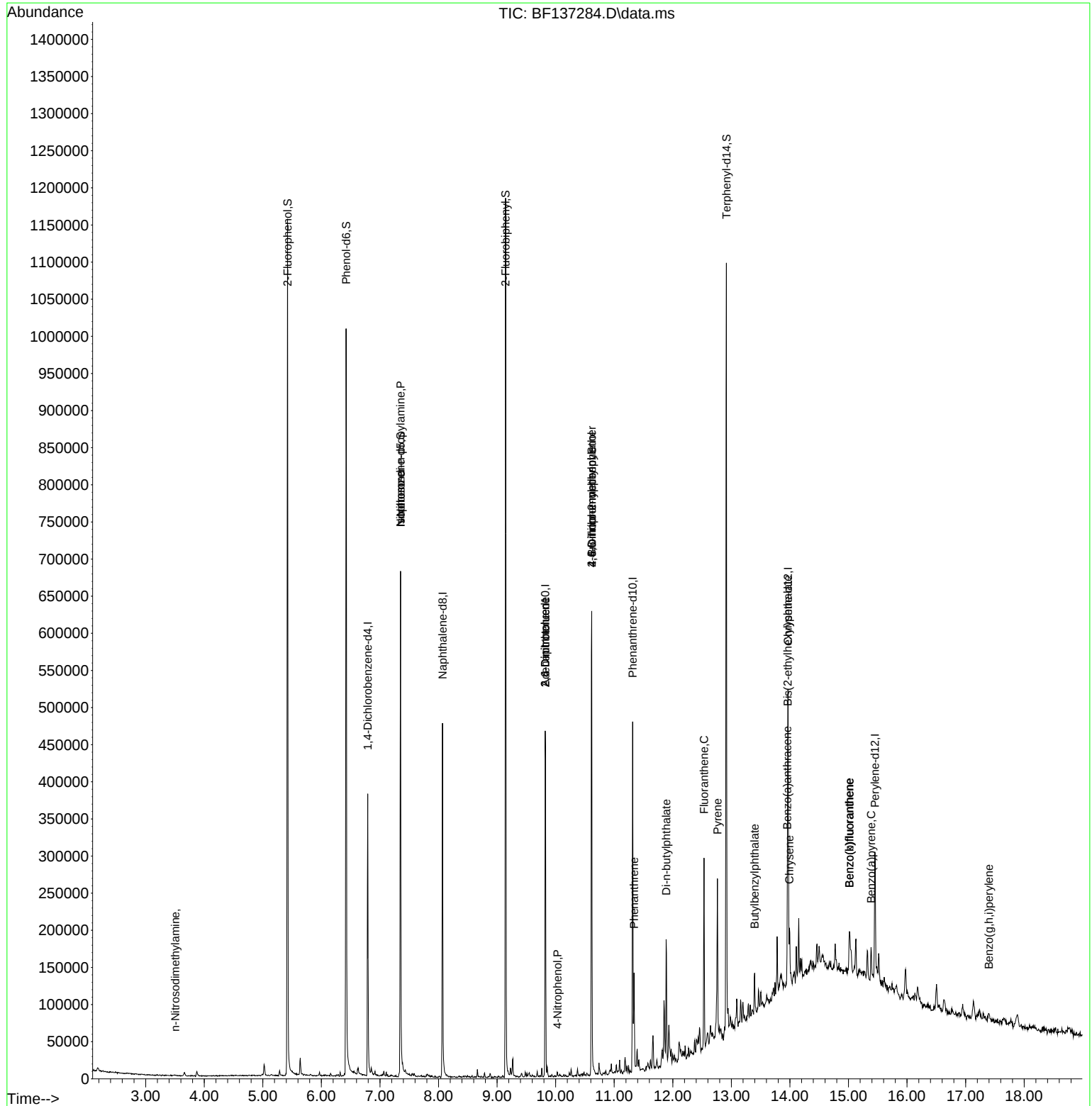
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.793  | 152  | 51622    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.069  | 136  | 183564   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.822  | 164  | 91143    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.316 | 188  | 167065   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 13.969 | 240  | 109842   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.451 | 264  | 92284    | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.422  | 112  | 275951   | 88.207 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.422  | 99   | 349967   | 78.387 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.351  | 82   | 215878   | 52.653 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.616 | 330  | 76979    | 74.786 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.145  | 172  | 336181   | 50.705 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.916 | 244  | 373535   | 46.230 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
| 4) n-Nitrosodimethylamine     | 3.504  | 42   | 67       | 6.094  | ng    | # 1      |
| 19) n-Nitroso-di-n-propyla... | 7.351  | 70   | 28014    | 9.151  | ng    | # 79     |
| 25) Isophorone                | 7.351  | 82   | 215876   | 28.526 | ng    | # 67     |
| 51) 2,6-Dinitrotoluene        | 9.822  | 165  | 11492    | 8.752  | ng    | # 18     |
| 56) 4-Nitrophenol             | 10.033 | 139  | 664      | 9.042  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 9.822  | 165  | 11492    | 6.745  | ng    | # 17     |
| 65) 4,6-Dinitro-2-methylph... | 10.616 | 198  | 137      | 5.592  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.616 | 248  | 5444     | 2.964  | ng    | # 1      |
| 71) Phenanthrene              | 11.339 | 178  | 43656    | 4.991  | ng    | 99       |
| 74) Di-n-butylphthalate       | 11.886 | 149  | 73671    | 8.946  | ng    | 100      |
| 75) Fluoranthene              | 12.533 | 202  | 96613    | 10.557 | ng    | 98       |
| 78) Pyrene                    | 12.763 | 202  | 87811    | 8.319  | ng    | 98       |
| 80) Butylbenzylphthalate      | 13.398 | 149  | 11364    | 4.208  | ng    | # 89     |
| 81) Benzo(a)anthracene        | 13.957 | 228  | 37856    | 4.866  | ng    | 96       |
| 83) Chrysene                  | 13.992 | 228  | 33996    | 4.445  | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 13.963 | 149  | 17392    | 5.536  | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 15.015 | 252  | 47287    | 8.332  | ng    | # 89     |
| 89) Benzo(k)fluoranthene      | 15.015 | 252  | 47287    | 7.876  | ng    | # 88     |
| 90) Benzo(a)pyrene            | 15.386 | 252  | 24214    | 4.534  | ng    | # 95     |
| 92) Benzo(g,h,i)perylene      | 17.398 | 276  | 14267    | 2.798  | ng    | # 92     |

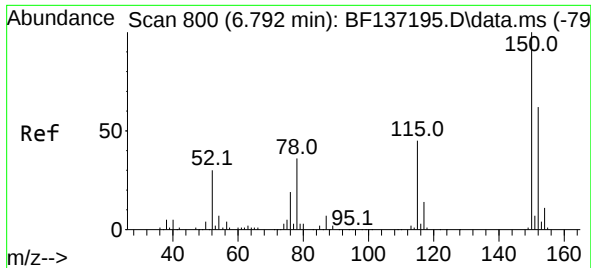
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020524\  
Data File : BF137284.D  
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Sample : P1141-05  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

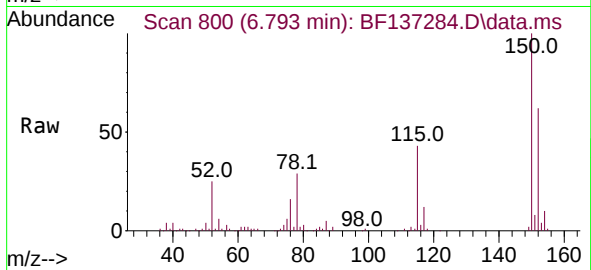
Quant Time: Feb 06 01:16:59 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF013024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 31 04:56:22 2024  
Response via : Initial Calibration



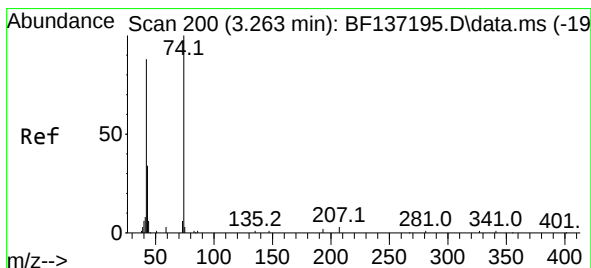
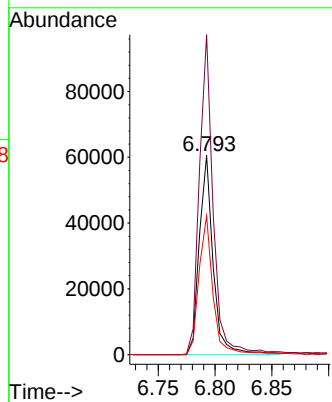
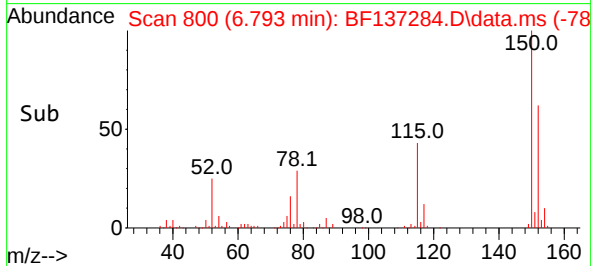


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.793 min Scan# 80  
 Delta R.T. 0.001 min  
 Lab File: BF137284.D  
 Acq: 05 Feb 2024 19:19

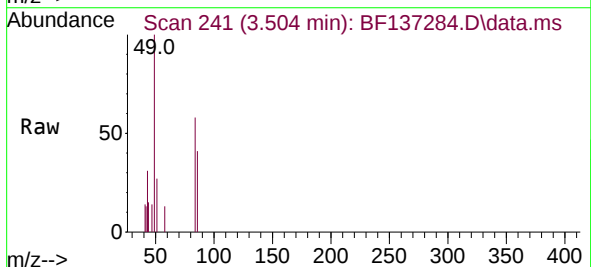
Instrument :  
 BNA\_F  
 ClientSampleId :



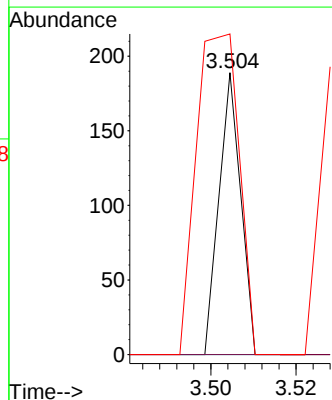
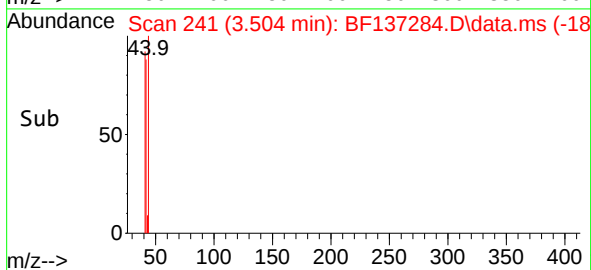
Tgt Ion:152 Resp: 51622  
 Ion Ratio Lower Upper  
 152 100  
 150 160.6 129.8 194.8  
 115 69.6 58.5 87.7

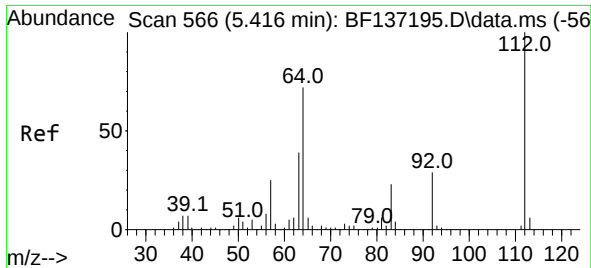


#4  
 n-Nitrosodimethylamine  
 Concen: 6.094 ng  
 RT: 3.504 min Scan# 241  
 Delta R.T. 0.241 min  
 Lab File: BF137284.D  
 Acq: 05 Feb 2024 19:19



Tgt Ion: 42 Resp: 67  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 90.5 135.7#  
 44 113.8 6.1 9.1#

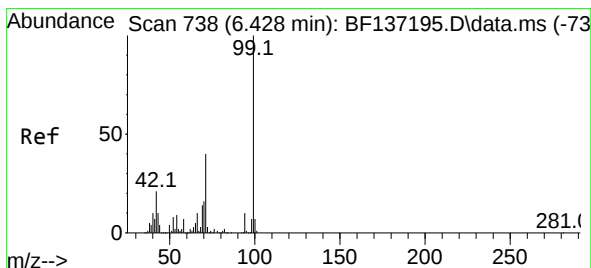
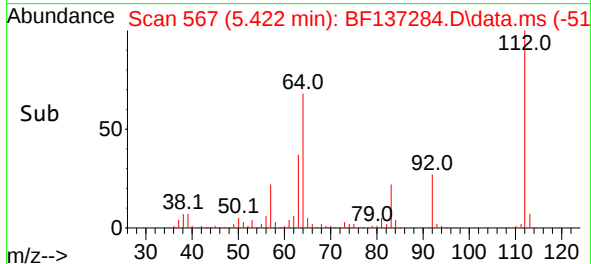
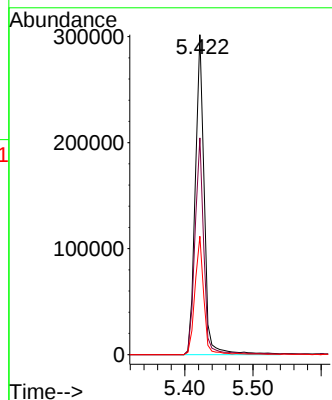
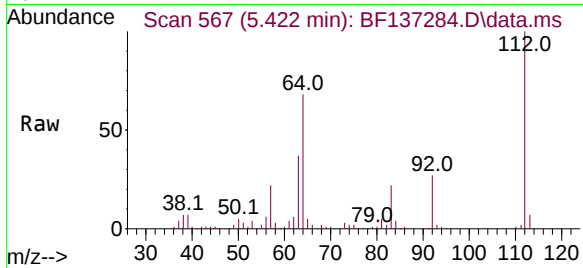




#5  
2-Fluorophenol  
Concen: 88.207 ng  
RT: 5.422 min Scan# 50  
Delta R.T. 0.006 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

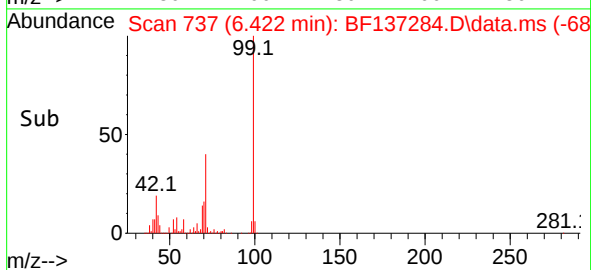
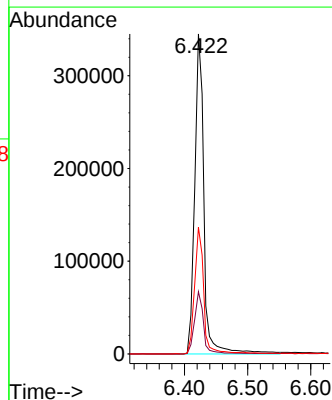
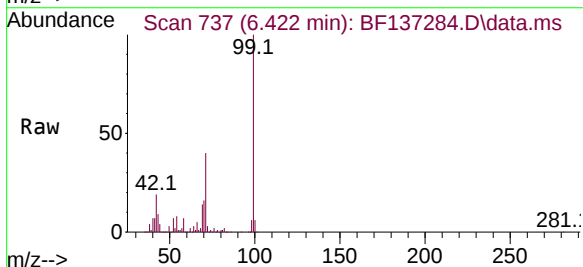
Instrument :  
BNA\_F  
ClientSampleId :

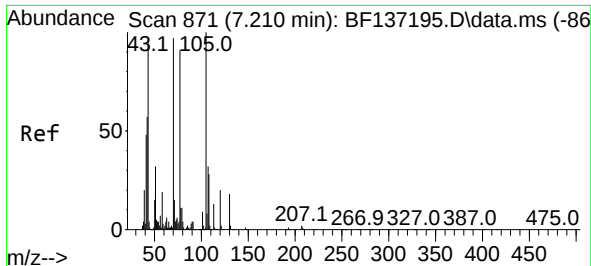
Tgt Ion:112 Resp: 275951  
Ion Ratio Lower Upper  
112 100  
64 67.7 57.8 86.6  
63 37.0 31.4 47.0



#7  
Phenol-d6  
Concen: 78.387 ng  
RT: 6.422 min Scan# 737  
Delta R.T. -0.006 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

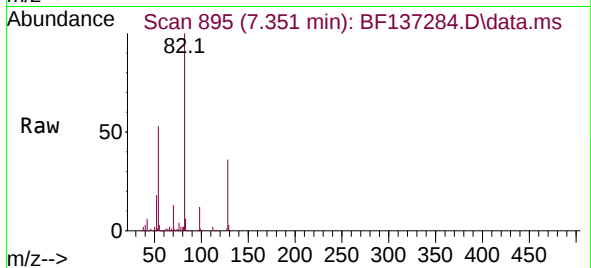
Tgt Ion: 99 Resp: 349967  
Ion Ratio Lower Upper  
99 100  
42 19.4 16.4 24.6  
71 39.6 32.4 48.6



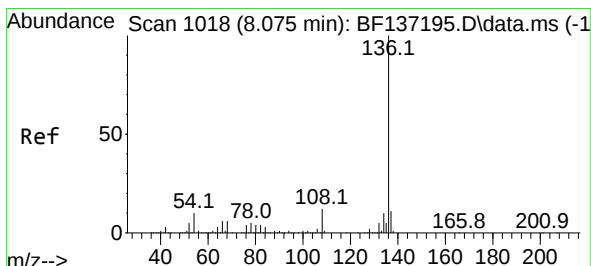
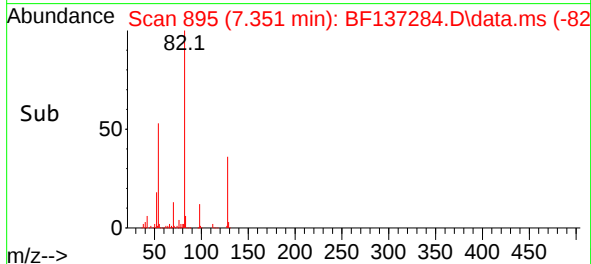
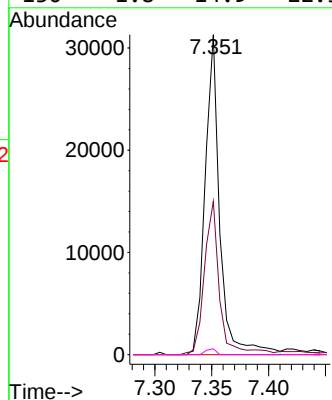


#19  
n-Nitroso-di-n-propylamine  
Concen: 9.151 ng  
RT: 7.351 min Scan# 89  
Delta R.T. 0.141 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

Instrument :  
BNA\_F  
ClientSampleId :

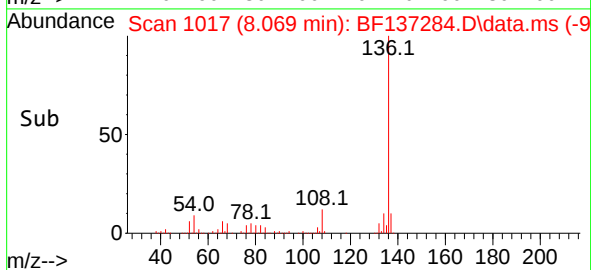
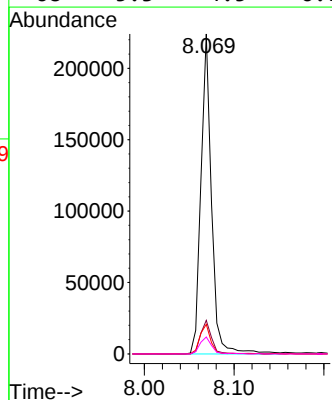
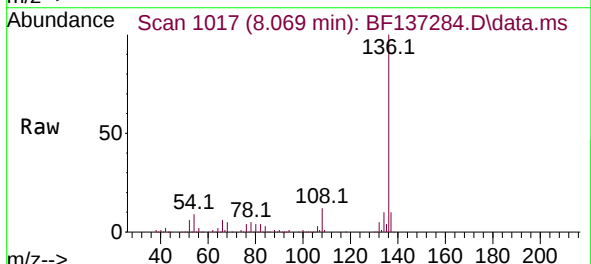


Tgt Ion: 70 Resp: 28014  
Ion Ratio Lower Upper  
70 100  
42 47.9 47.2 70.8  
101 0.0 7.4 11.0#  
130 1.8 14.9 22.3#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.069 min Scan# 1017  
Delta R.T. -0.006 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

Tgt Ion: 136 Resp: 183564  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.9 13.3  
54 9.2 7.8 11.8  
68 5.3 4.5 6.7





#23

Nitrobenzene-d5

Concen: 52.653 ng

RT: 7.351 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

Instrument :

BNA\_F

ClientSampleId :

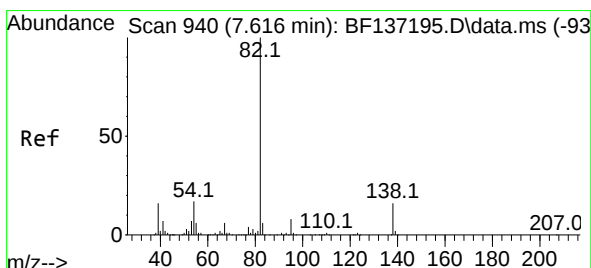
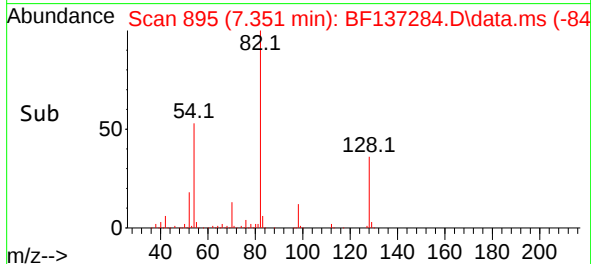
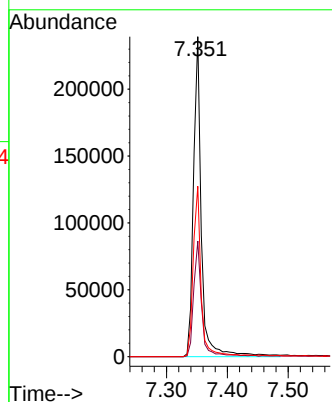
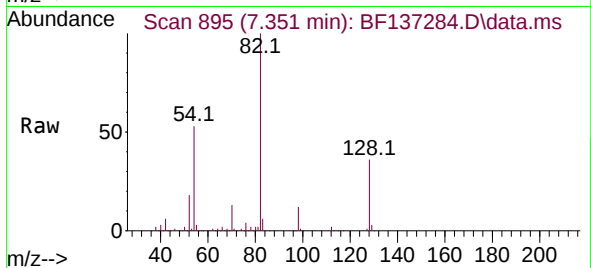
Tgt Ion: 82 Resp: 215878

Ion Ratio Lower Upper

82 100

128 36.1 29.1 43.7

54 53.2 45.0 67.6



#25

Isophorone

Concen: 28.526 ng

RT: 7.351 min Scan# 895

Delta R.T. -0.265 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

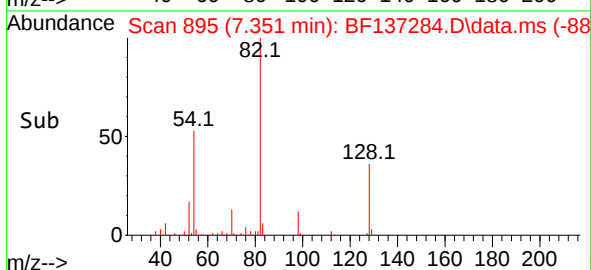
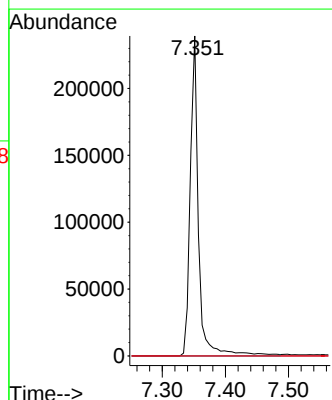
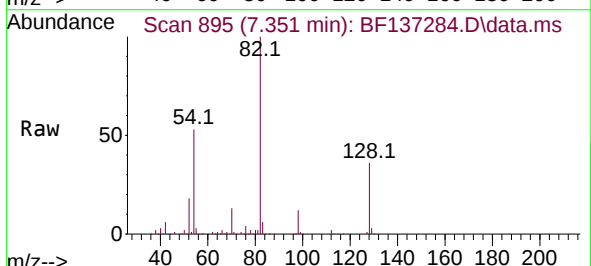
Tgt Ion: 82 Resp: 215876

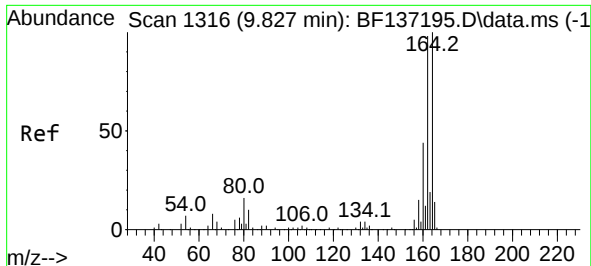
Ion Ratio Lower Upper

82 100

95 0.0 6.4 9.6#

138 0.0 12.7 19.1#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 1316

Delta R.T. -0.005 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

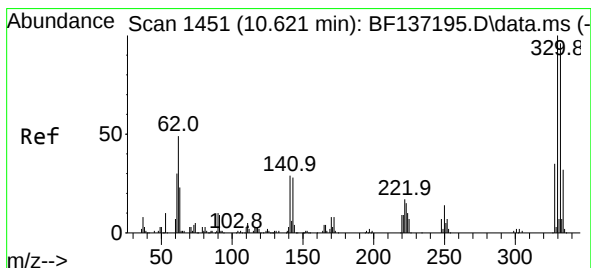
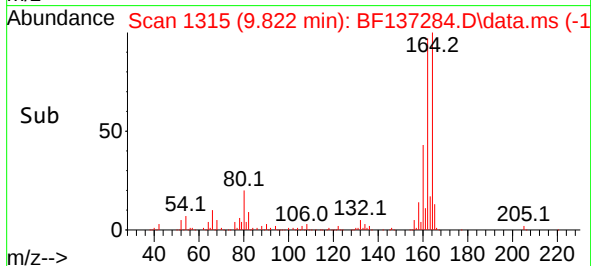
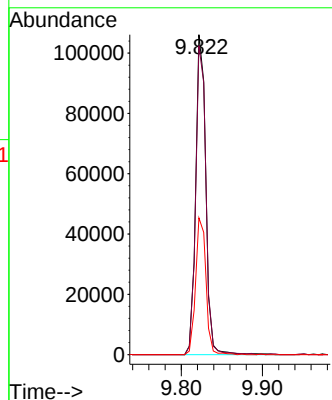
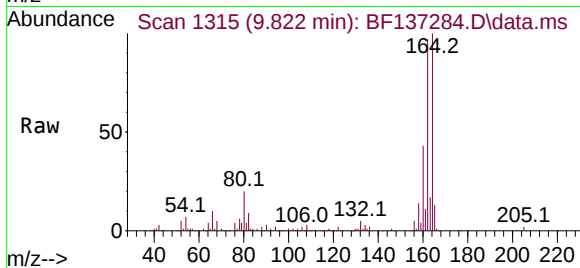
Instrument :

BNA\_F

ClientSampleId :

Tgt Ion:164 Resp: 91143

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 96.5  | 78.3  | 117.5 |
| 160 | 42.7  | 35.4  | 53.2  |



#42

2,4,6-Tribromophenol

Concen: 74.786 ng

RT: 10.616 min Scan# 1450

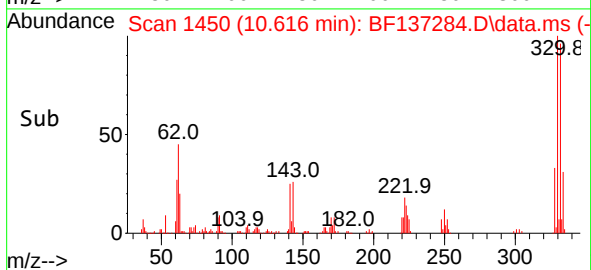
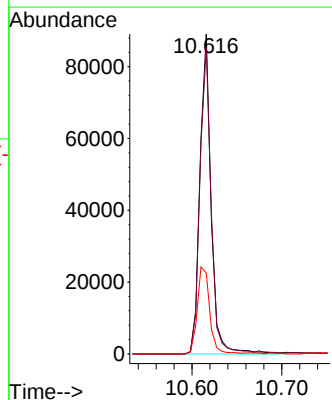
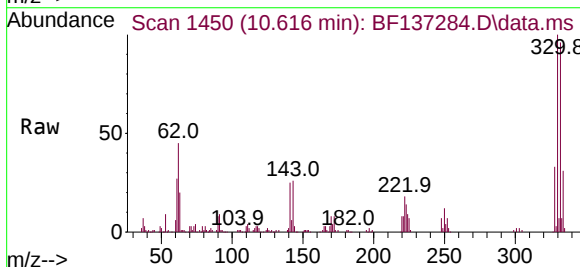
Delta R.T. -0.006 min

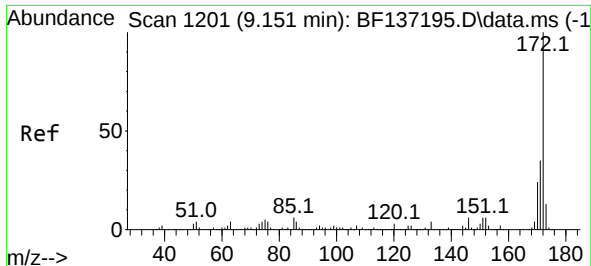
Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

Tgt Ion:330 Resp: 76979

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 97.4  | 77.3  | 115.9 |
| 141 | 30.0  | 25.2  | 37.8  |





#45

2-Fluorobiphenyl

Concen: 50.705 ng

RT: 9.145 min Scan# 1315

Delta R.T. -0.006 min

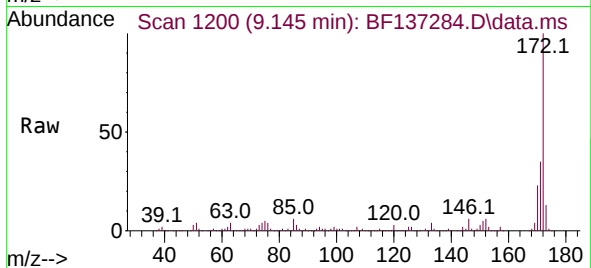
Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

Instrument :

BNA\_F

ClientSampleId :



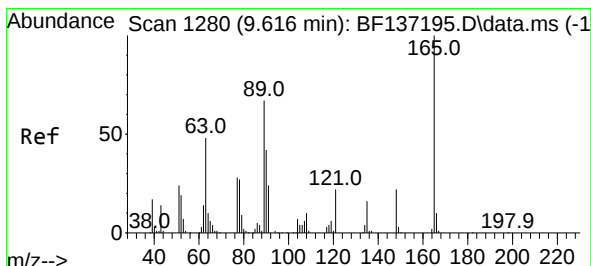
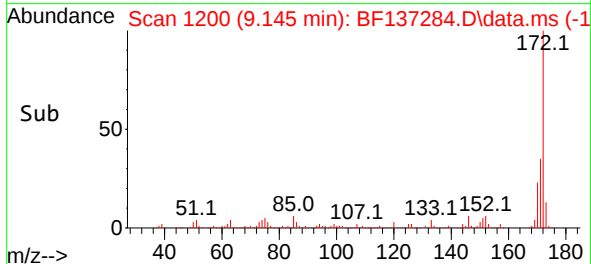
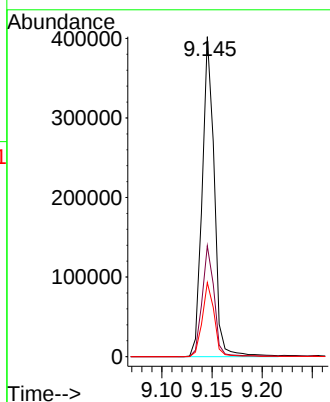
Tgt Ion:172 Resp: 336181

Ion Ratio Lower Upper

172 100

171 34.6 28.3 42.5

170 23.1 19.1 28.7



#51

2,6-Dinitrotoluene

Concen: 8.752 ng

RT: 9.822 min Scan# 1315

Delta R.T. 0.206 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

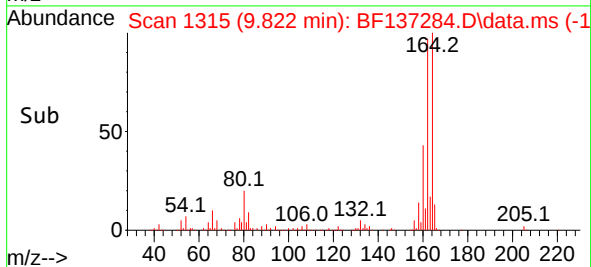
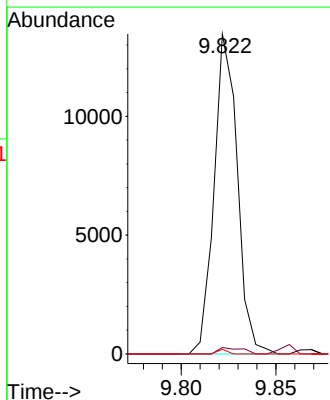
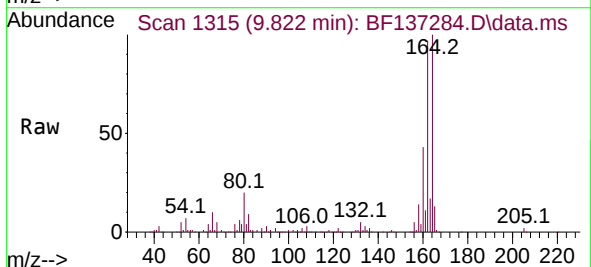
Tgt Ion:165 Resp: 11492

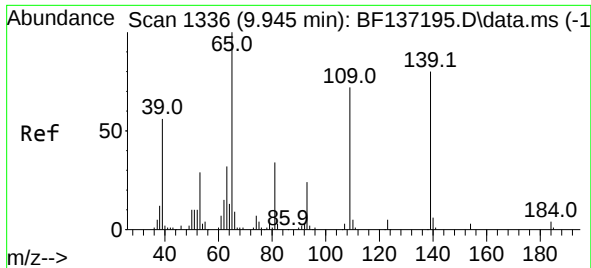
Ion Ratio Lower Upper

165 100

63 2.0 55.1 82.7#

89 1.4 53.5 80.3#

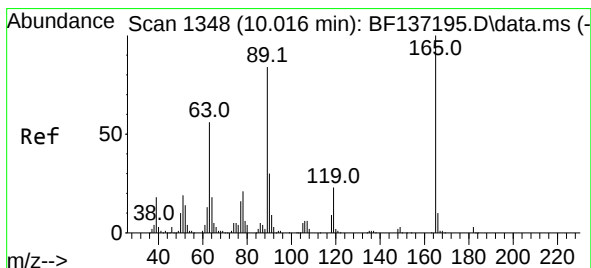
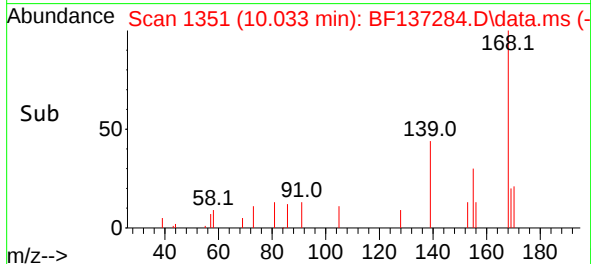
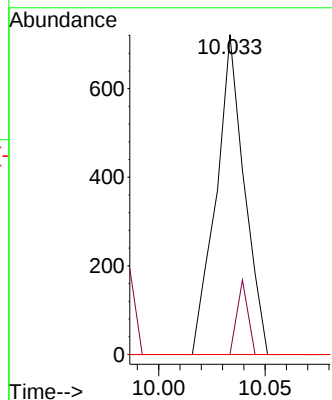
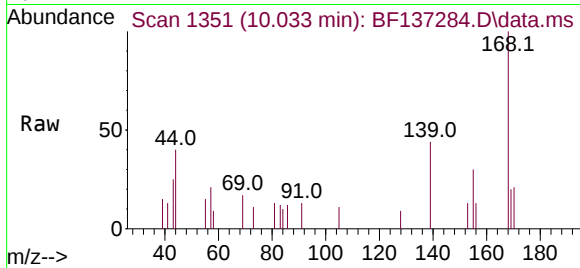




#56  
4-Nitrophenol  
Concen: 9.042 ng  
RT: 10.033 min Scan# 1315  
Delta R.T. 0.088 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

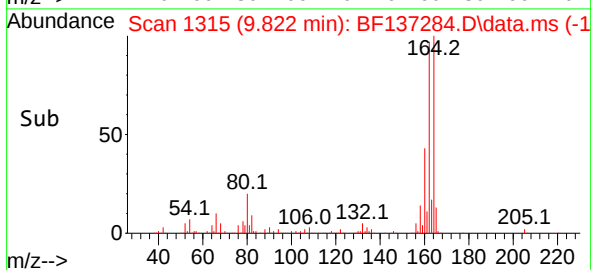
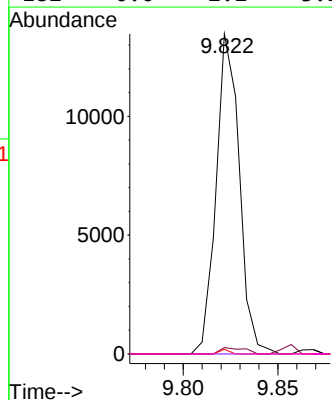
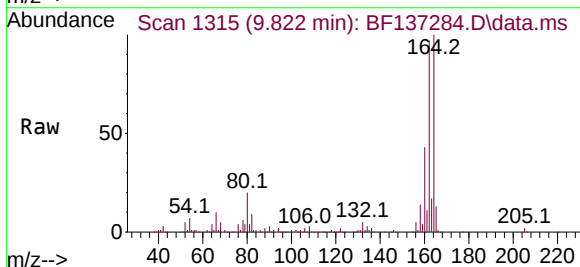
Instrument :  
BNA\_F  
ClientSampleId :

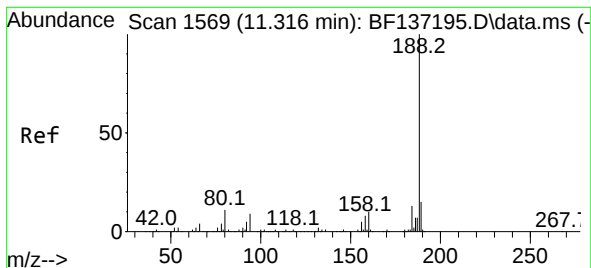
Tgt Ion:139 Resp: 664  
Ion Ratio Lower Upper  
139 100  
109 0.0 70.4 110.4#  
65 0.0 107.6 147.6#



#57  
2,4-Dinitrotoluene  
Concen: 6.745 ng  
RT: 9.822 min Scan# 1315  
Delta R.T. -0.194 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

Tgt Ion:165 Resp: 11492  
Ion Ratio Lower Upper  
165 100  
63 2.0 46.1 69.1#  
89 1.4 67.5 101.3#  
182 0.0 2.2 3.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.316 min Scan# 11

Delta R.T. -0.000 min

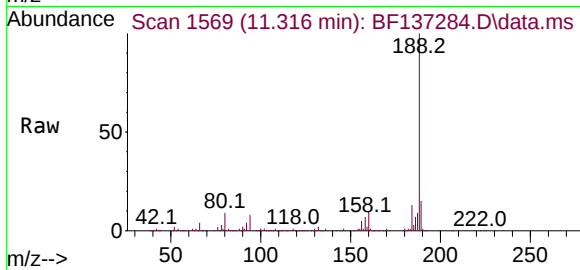
Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

Instrument :

BNA\_F

ClientSampleId :



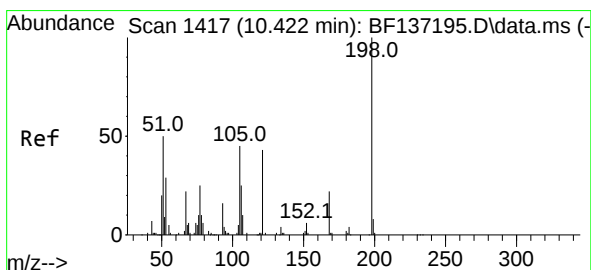
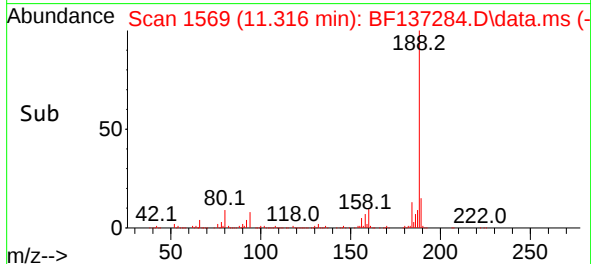
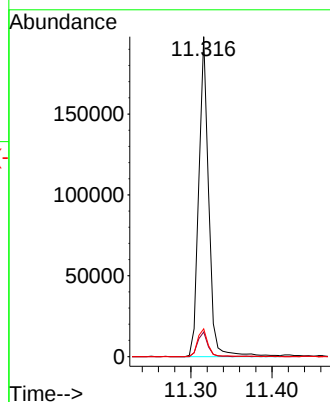
Tgt Ion:188 Resp: 167065

Ion Ratio Lower Upper

188 100

94 7.7 7.0 10.4

80 8.7 8.8 13.2#



#65

4,6-Dinitro-2-methylphenol

Concen: 5.592 ng

RT: 10.616 min Scan# 1450

Delta R.T. 0.194 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

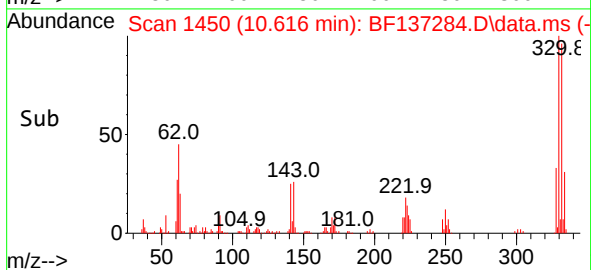
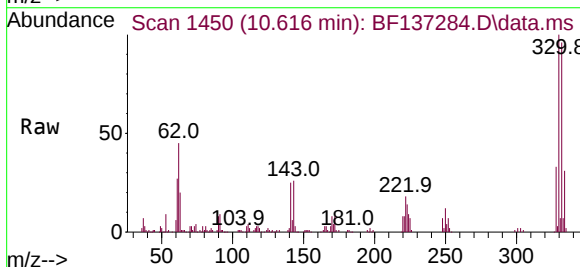
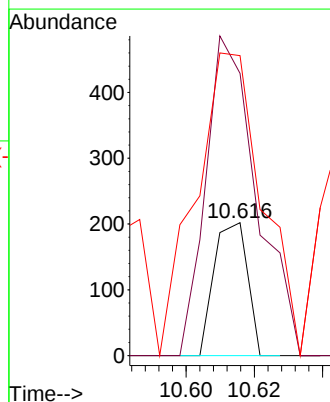
Tgt Ion:198 Resp: 137

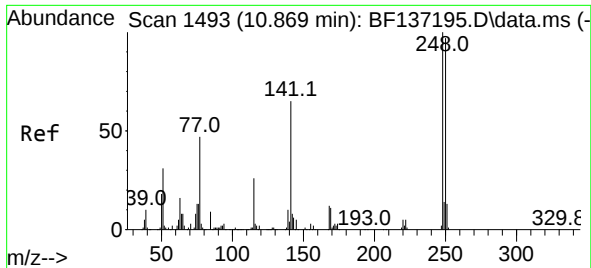
Ion Ratio Lower Upper

198 100

51 212.4 40.9 80.9#

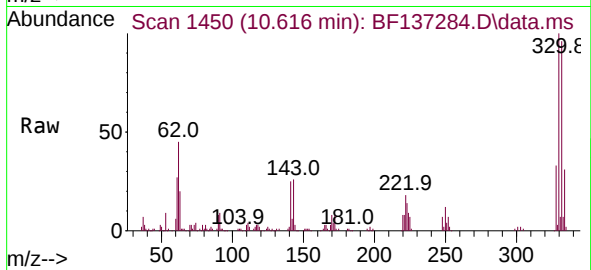
105 225.7 26.5 66.5#



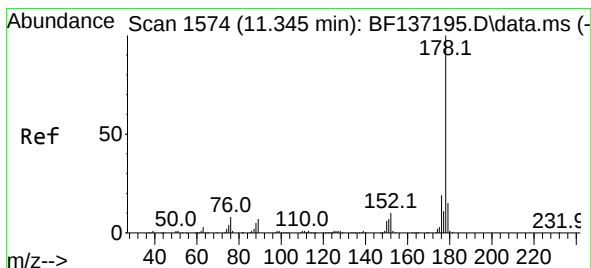
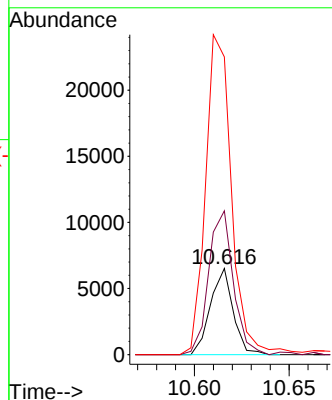
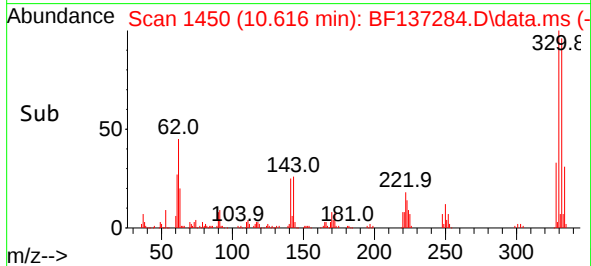


#67  
4-Bromophenyl-phenylether  
Concen: 2.964 ng  
RT: 10.616 min Scan# 1493  
Delta R.T. -0.253 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

Instrument :  
BNA\_F  
ClientSampleId :

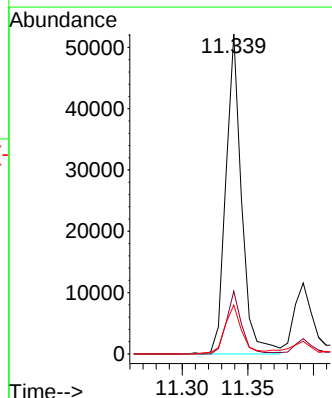
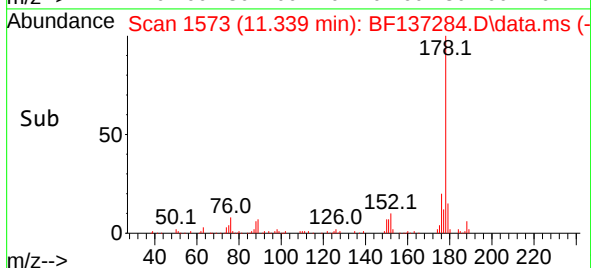
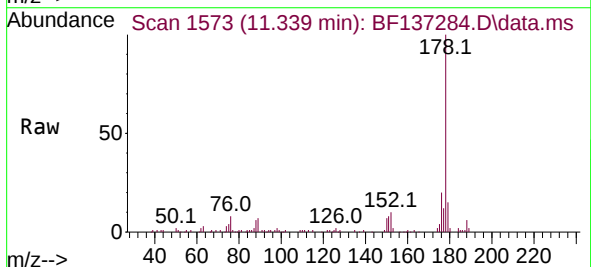


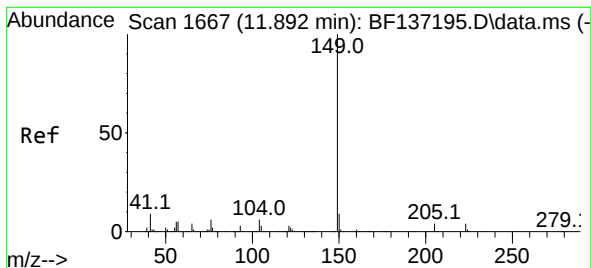
Tgt Ion:248 Resp: 5444  
Ion Ratio Lower Upper  
248 100  
250 166.7 77.7 116.5#  
141 345.3 51.6 77.4#



#71  
Phenanthrene  
Concen: 4.991 ng  
RT: 11.339 min Scan# 1573  
Delta R.T. -0.006 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

Tgt Ion:178 Resp: 43656  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.1 22.7  
179 15.3 12.1 18.1





#74

Di-n-butylphthalate

Concen: 8.946 ng

RT: 11.886 min Scan# 1666

Delta R.T. -0.006 min

Lab File: BF137284.D

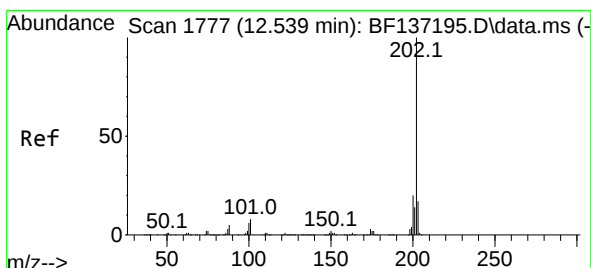
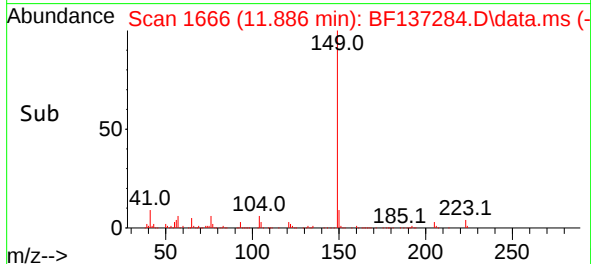
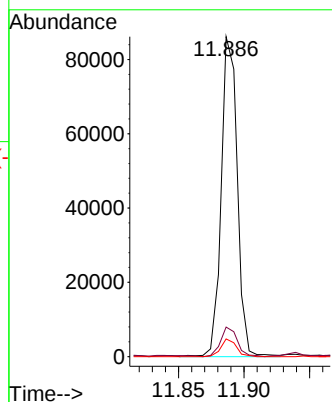
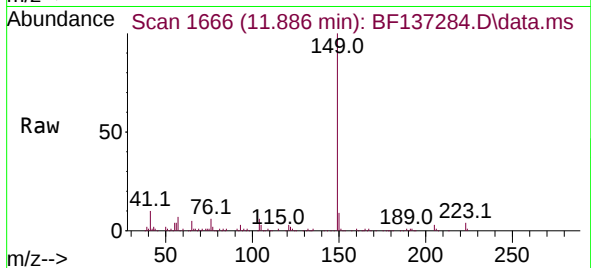
Acq: 05 Feb 2024 19:19

Instrument :

BNA\_F

ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:149 | Resp: | 73671    |
| Ion Ratio   | Lower | Upper    |
| 149         | 100   |          |
| 150         | 9.2   | 7.4 11.0 |
| 104         | 5.6   | 4.5 6.7  |



#75

Fluoranthene

Concen: 10.557 ng

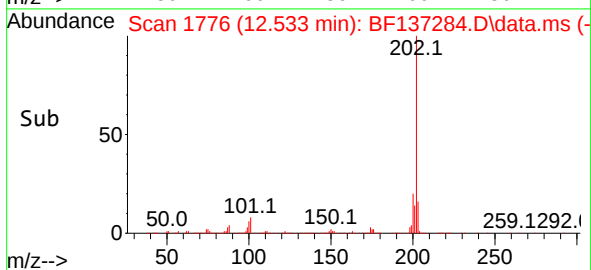
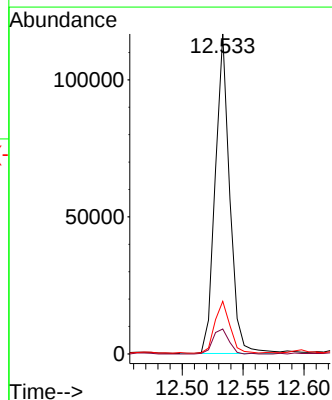
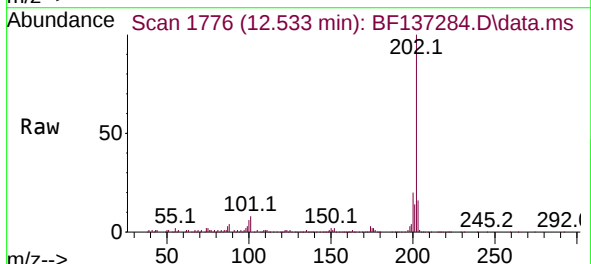
RT: 12.533 min Scan# 1776

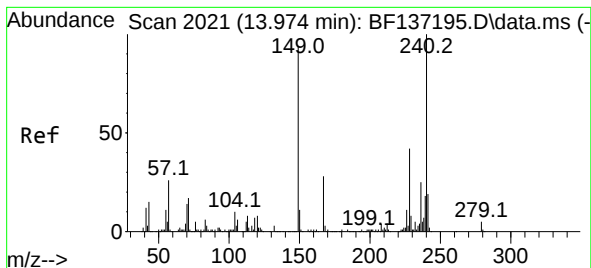
Delta R.T. -0.006 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 96613    |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 7.8   | 0.0 28.4 |
| 203         | 16.4  | 0.0 37.3 |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.969 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

Instrument :

BNA\_F

ClientSampleId :

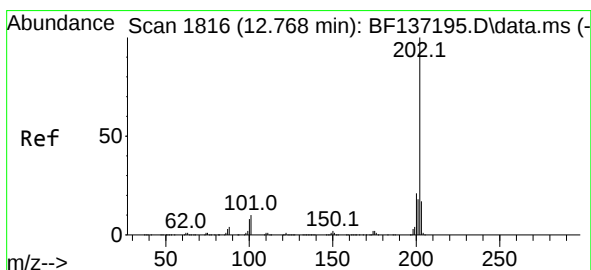
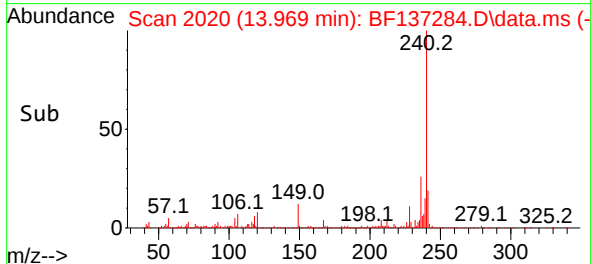
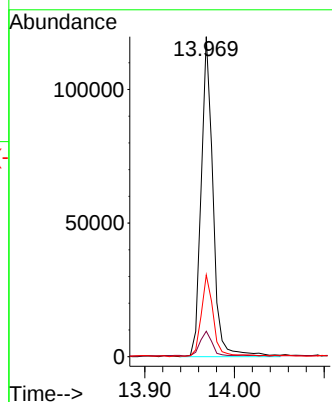
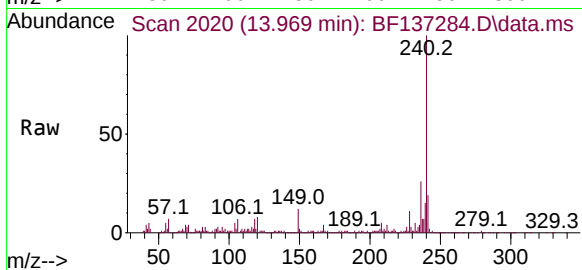
Tgt Ion:240 Resp: 109842

Ion Ratio Lower Upper

240 100

120 7.9 6.3 9.5

236 25.5 20.3 30.5



#78

Pyrene

Concen: 8.319 ng

RT: 12.763 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

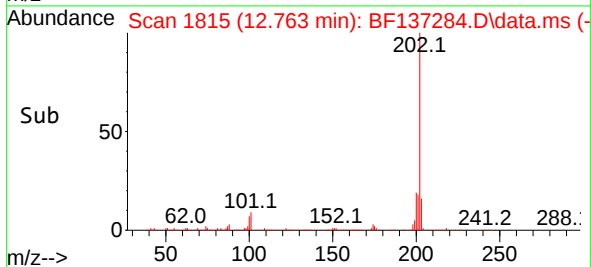
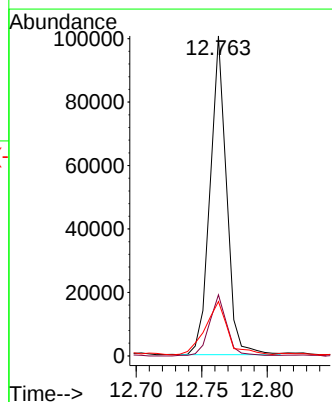
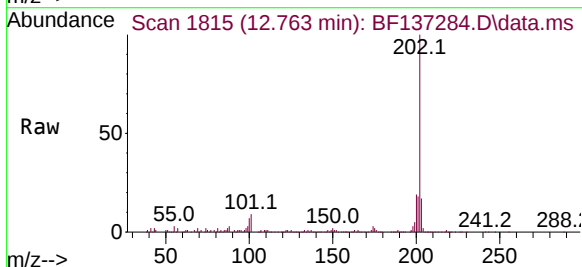
Tgt Ion:202 Resp: 87811

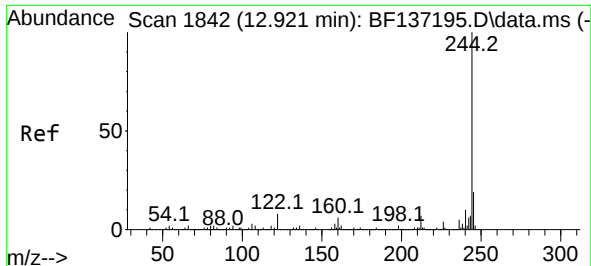
Ion Ratio Lower Upper

202 100

200 19.1 16.5 24.7

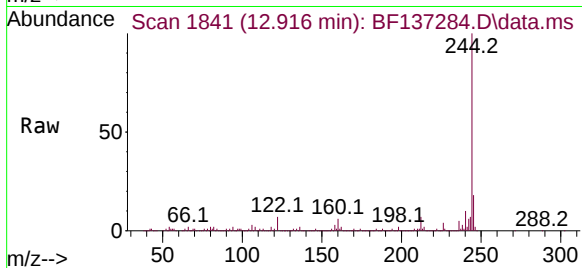
203 17.0 13.8 20.6



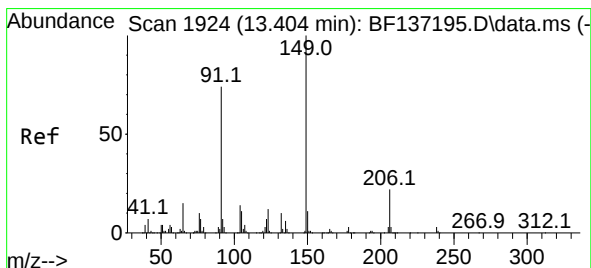
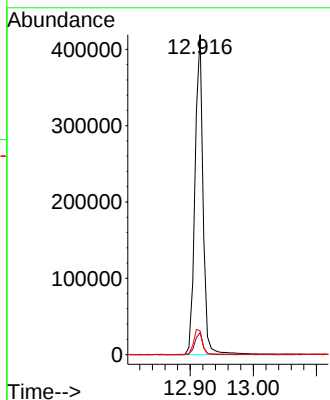
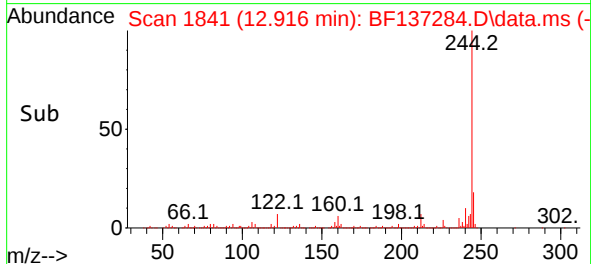


#79  
 Terphenyl-d14  
 Concen: 46.230 ng  
 RT: 12.916 min Scan# 1842  
 Delta R.T. -0.006 min  
 Lab File: BF137284.D  
 Acq: 05 Feb 2024 19:19

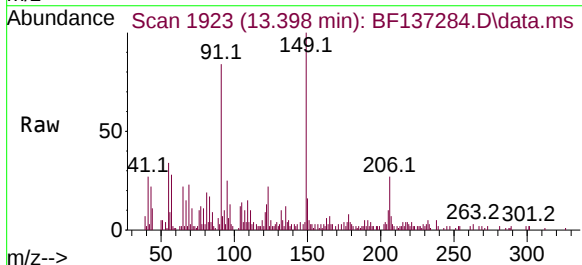
Instrument :  
 BNA\_F  
 ClientSampleId :



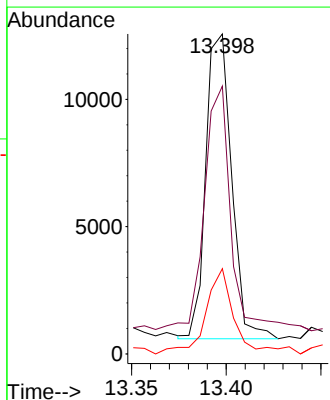
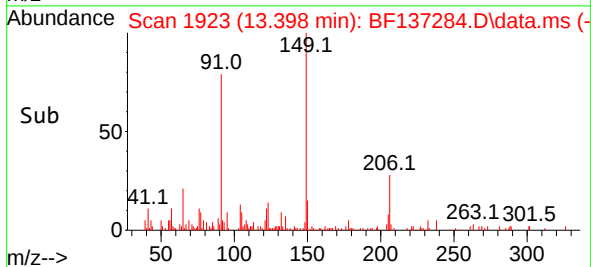
Tgt Ion:244 Resp: 373535  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.5 8.3  
 122 7.4 6.2 9.4

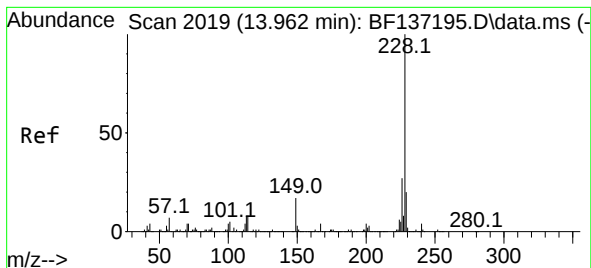


#80  
 Butylbenzylphthalate  
 Concen: 4.208 ng  
 RT: 13.398 min Scan# 1923  
 Delta R.T. -0.006 min  
 Lab File: BF137284.D  
 Acq: 05 Feb 2024 19:19



Tgt Ion:149 Resp: 11364  
 Ion Ratio Lower Upper  
 149 100  
 91 83.7 58.8 88.2  
 206 26.6 17.7 26.5#





#81

Benzo(a)anthracene

Concen: 4.866 ng

RT: 13.957 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

Instrument :

BNA\_F

ClientSampleId :

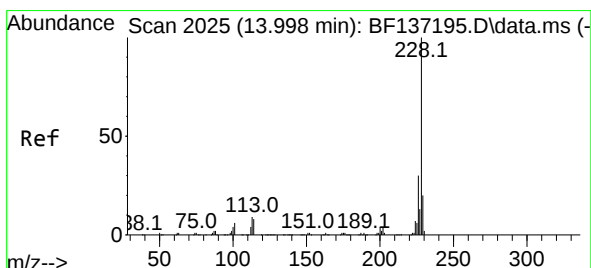
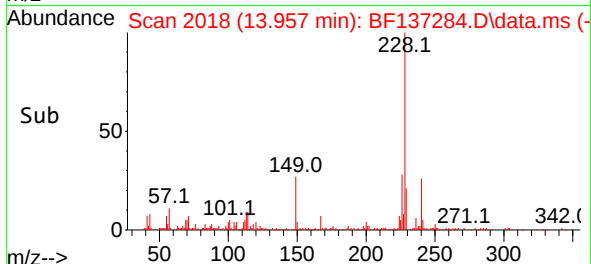
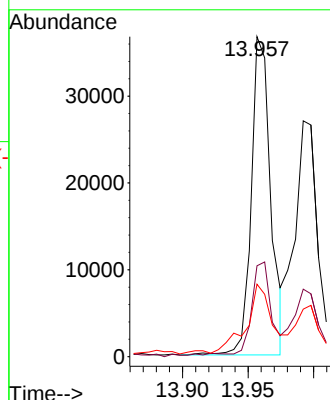
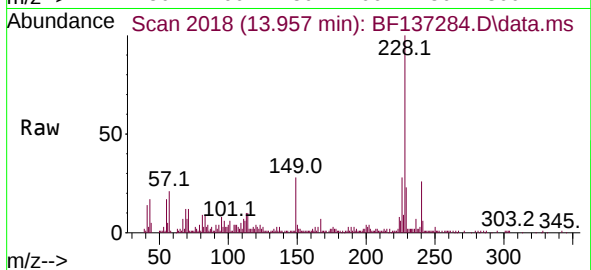
Tgt Ion:228 Resp: 37856

Ion Ratio Lower Upper

228 100

226 28.4 21.6 32.4

229 22.7 15.8 23.6



#83

Chrysene

Concen: 4.445 ng

RT: 13.992 min Scan# 2024

Delta R.T. -0.006 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

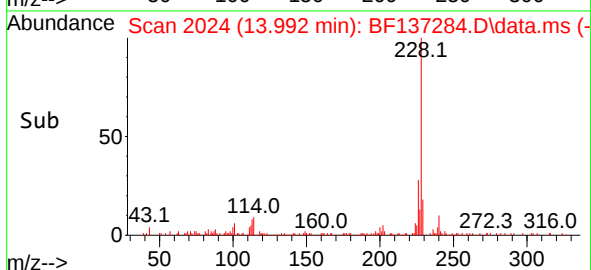
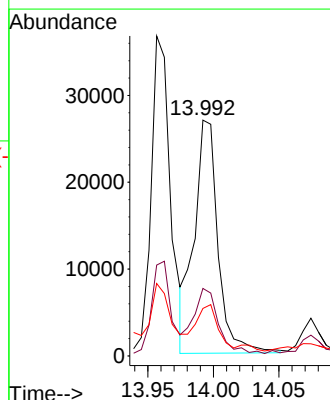
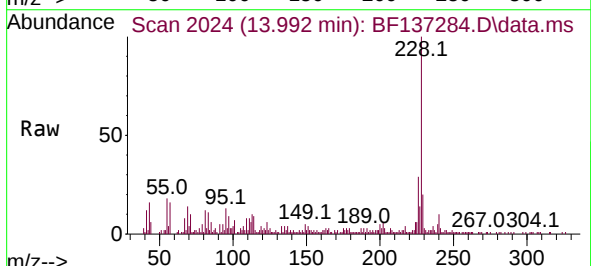
Tgt Ion:228 Resp: 33996

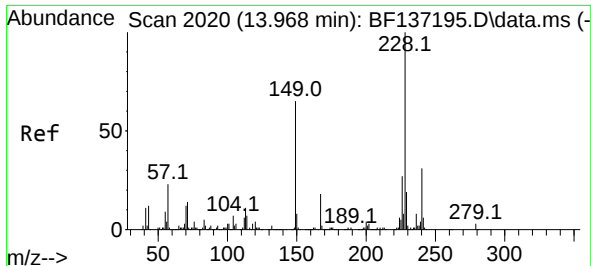
Ion Ratio Lower Upper

228 100

226 28.6 23.7 35.5

229 20.1 15.6 23.4



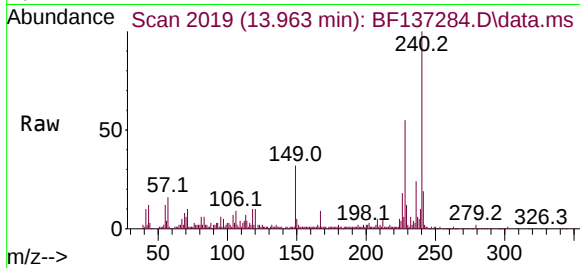


#84  
Bis(2-ethylhexyl)phthalate  
Concen: 5.536 ng  
RT: 13.963 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

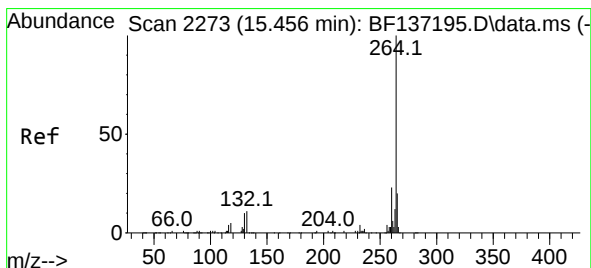
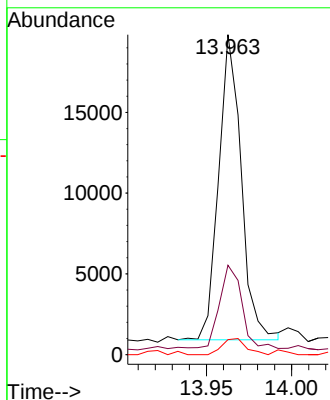
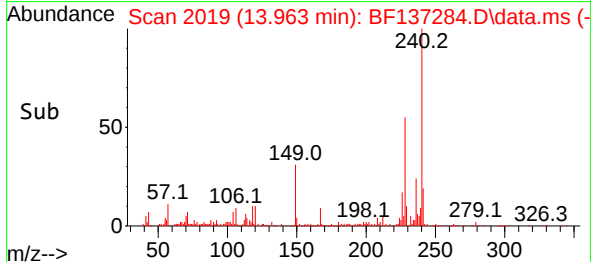
Instrument :

BNA\_F

ClientSampleId :

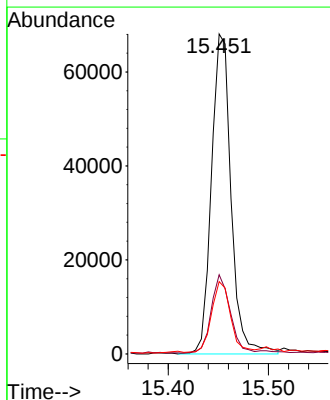
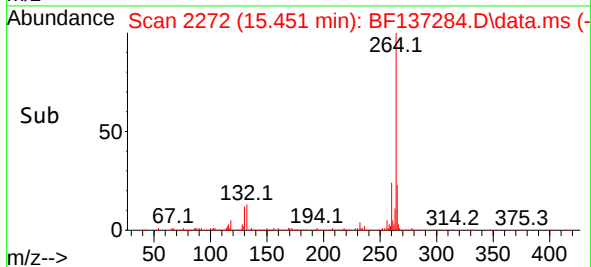
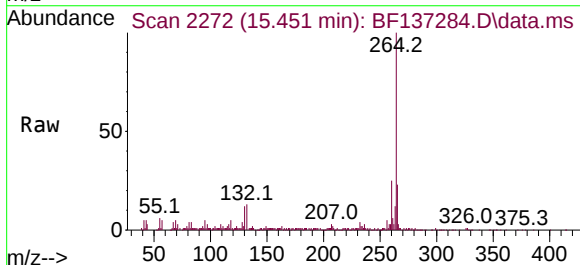


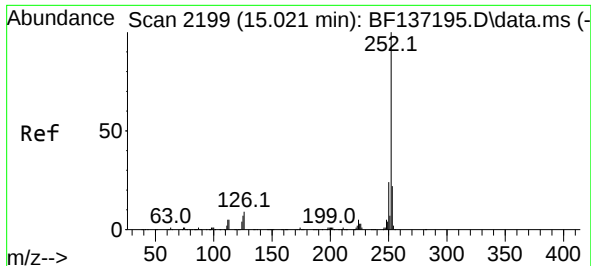
Tgt Ion:149 Resp: 17392  
Ion Ratio Lower Upper  
149 100  
167 27.9 21.7 32.5  
279 4.7 3.4 5.0



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.451 min Scan# 2272  
Delta R.T. -0.006 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

Tgt Ion:264 Resp: 92284  
Ion Ratio Lower Upper  
264 100  
260 24.8 18.2 27.4  
265 22.6 16.2 24.2

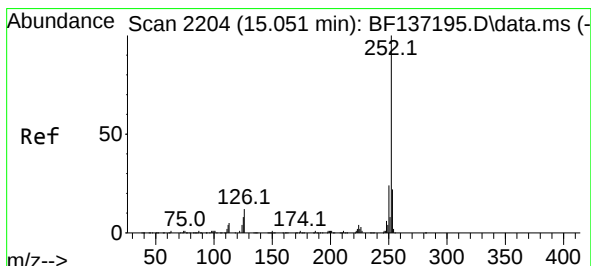
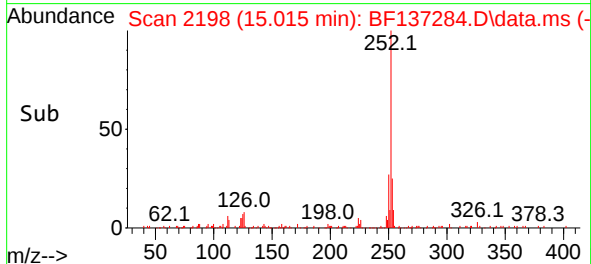
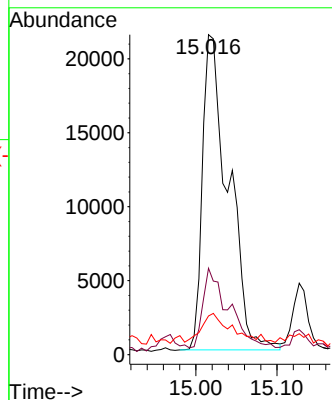
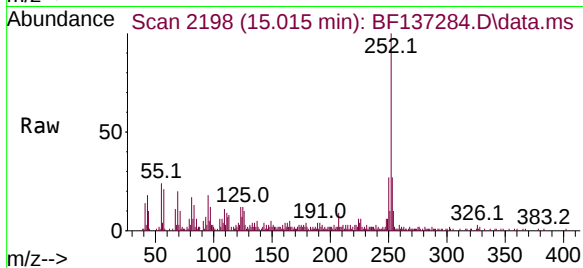




#88  
Benzo(b)fluoranthene  
Concen: 8.332 ng  
RT: 15.015 min Scan# 2199  
Delta R.T. -0.006 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

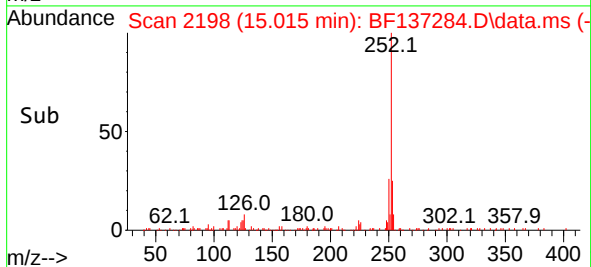
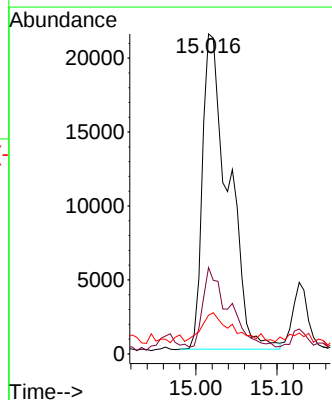
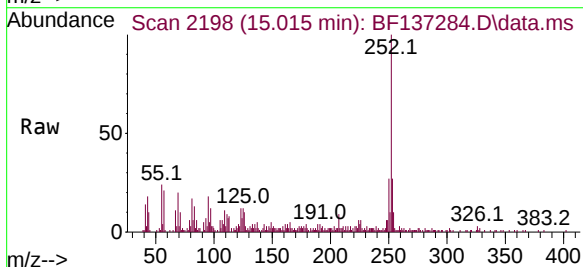
Instrument :  
BNA\_F  
ClientSampleId :

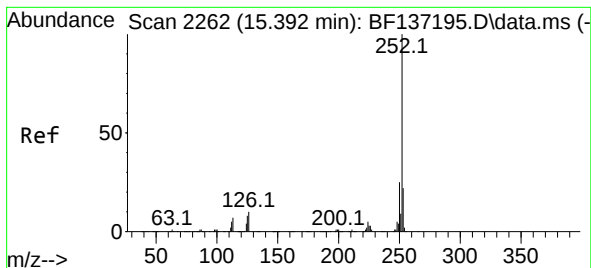
Tgt Ion:252 Resp: 47287  
Ion Ratio Lower Upper  
252 100  
253 27.0 17.9 26.9#  
125 12.1 5.4 8.2#



#89  
Benzo(k)fluoranthene  
Concen: 7.876 ng  
RT: 15.015 min Scan# 2198  
Delta R.T. -0.035 min  
Lab File: BF137284.D  
Acq: 05 Feb 2024 19:19

Tgt Ion:252 Resp: 47287  
Ion Ratio Lower Upper  
252 100  
253 27.0 17.0 25.6#  
125 12.1 5.9 8.9#





#90

Benzo(a)pyrene

Concen: 4.534 ng

RT: 15.386 min Scan# 2261

Delta R.T. -0.006 min

Lab File: BF137284.D

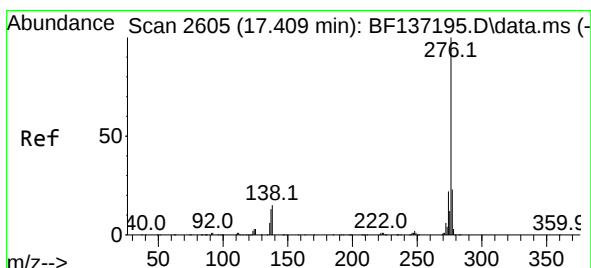
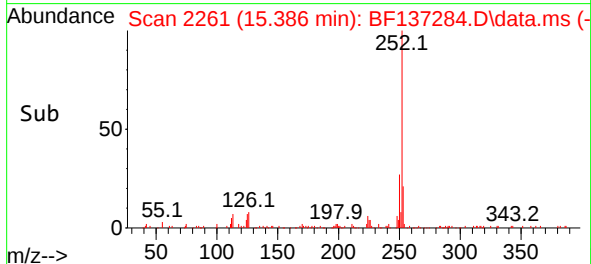
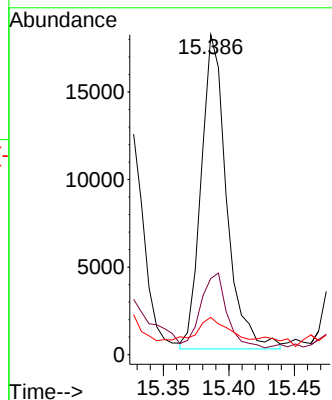
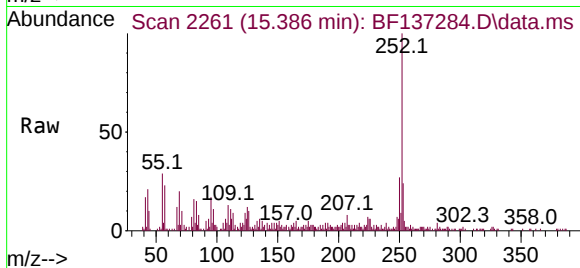
Acq: 05 Feb 2024 19:19

Instrument :

BNA\_F

ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 24214 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.8  | 17.8  | 26.6  |
| 125       | 11.6  | 6.5   | 9.7#  |



#92

Benzo(g,h,i)perylene

Concen: 2.798 ng

RT: 17.398 min Scan# 2603

Delta R.T. -0.012 min

Lab File: BF137284.D

Acq: 05 Feb 2024 19:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 14267 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 29.1  | 18.4  | 27.6# |
| 138       | 14.0  | 11.8  | 17.8  |

