

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP063020\  
 Data File : BP002593.D  
 Acq On : 01 Jul 2020 07:33  
 Operator : CG/JU  
 Sample : L3148-07  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 EPEC-POLYMERS-02

Quant Time: Jul 01 08:59:00 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP062920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 29 16:51:57 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.57  | 152  | 233474   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.34 | 136  | 908904   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.22 | 164  | 472523   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 16.98 | 188  | 1062644  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.09 | 240  | 1156142  | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.29 | 264  | 1017892  | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.19  | 112  | 1676710  | 121.59 | ng    | 0.00     |
| 7) Phenol-d6                | 6.77  | 99   | 1483550  | 77.08  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.72  | 82   | 1741892  | 98.75  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.72 | 330  | 963192   | 167.59 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.84 | 172  | 2833222  | 88.25  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.57 | 244  | 4093567  | 76.43  | ng    | 0.00     |

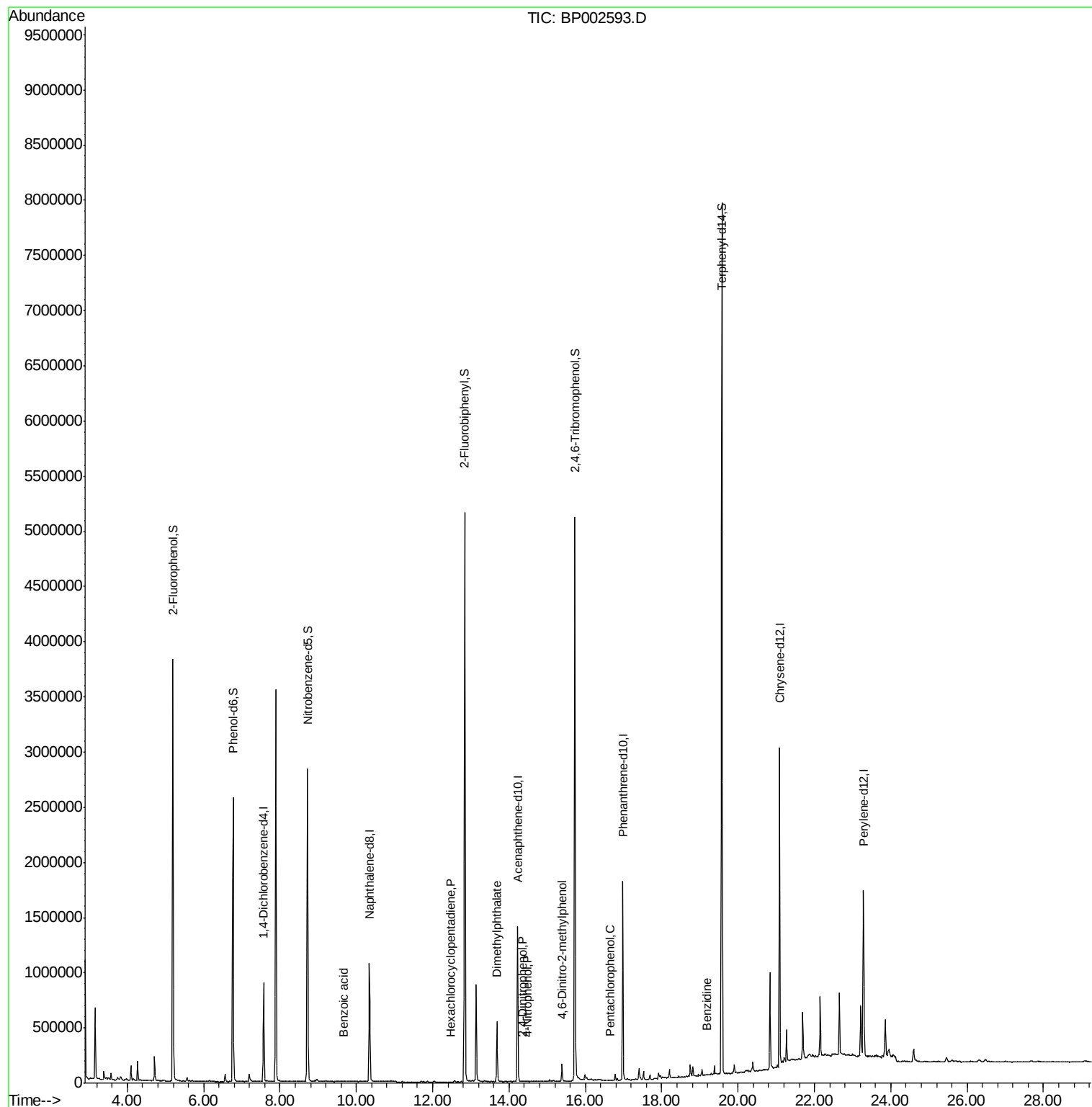
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.73  | 77   | 151      | Below Cal |       | # 62   |
| 32) Benzoic acid               | 9.67  | 122  | 64       | 8.705     | ng    | # 18   |
| 41) Hexachlorocyclopentadiene  | 12.46 | 237  | 23       | 4.384     | ng    | # 88   |
| 50) Dimethylphthalate          | 13.68 | 163  | 352400   | 9.495     | ng    | # 99   |
| 54) 2,4-Dinitrophenol          | 14.35 | 184  | 48       | 6.018     | ng    | # 57   |
| 56) 4-Nitrophenol              | 14.47 | 139  | 66       | 2.445     | ng    | # 1    |
| 65) 4,6-Dinitro-2-methylphenol | 15.39 | 198  | 140      | 2.729     | ng    | # 1    |
| 70) Pentachlorophenol          | 16.65 | 266  | 59       | 2.669     | ng    | # 89   |
| 77) Benzidine                  | 19.17 | 184  | 68       | 3.757     | ng    | # 1    |

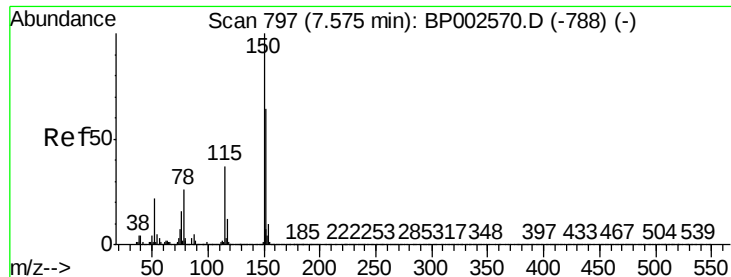
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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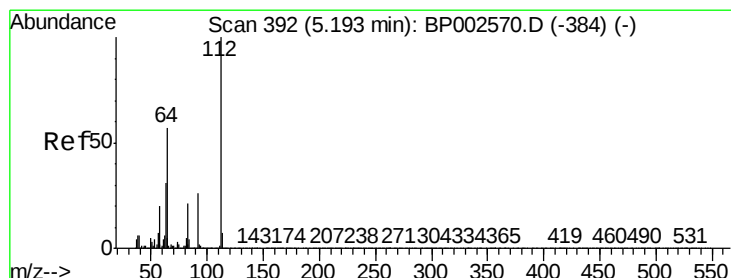
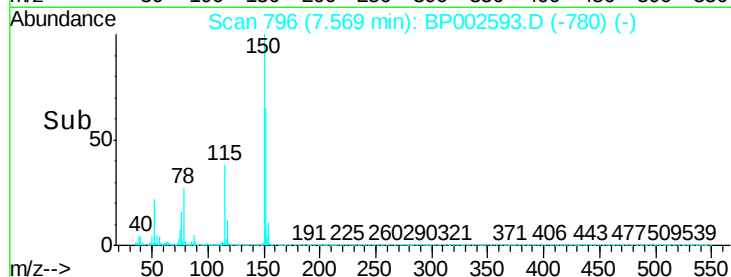
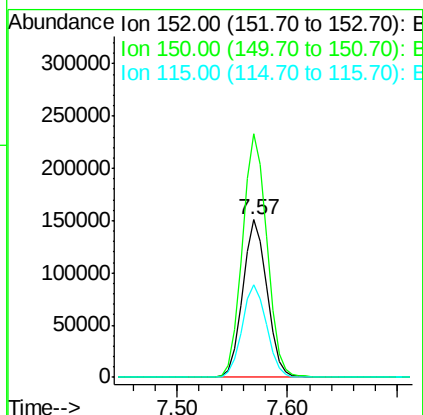
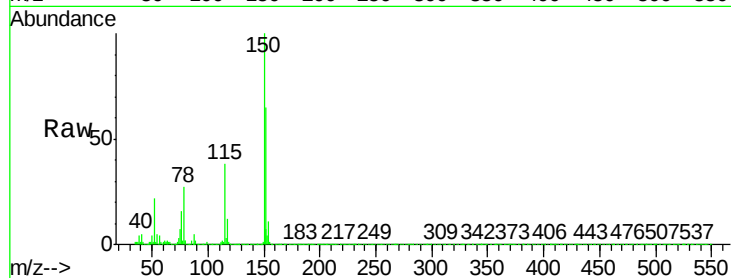


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.57 min Scan# 796  
Delta R.T. -0.01 min  
Lab File: BP002593.D  
Acq: 01 Jul 2020 07:33

Instrument :  
BNA\_P  
ClientSampleId :  
EPEC-POLYMERS-02

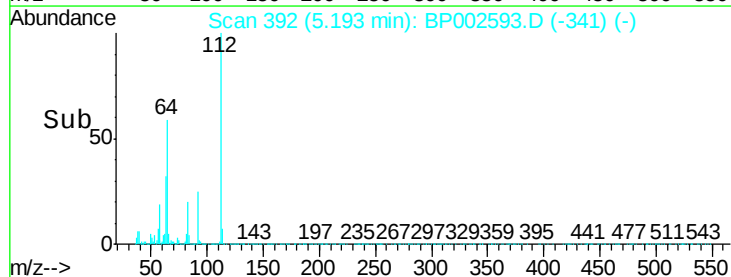
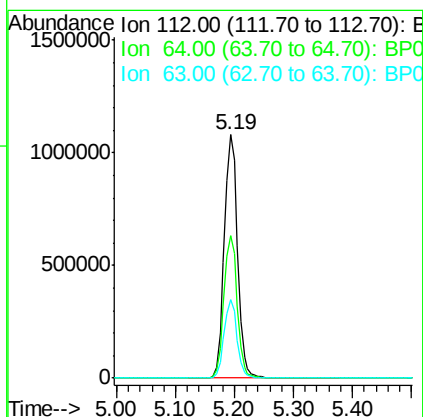
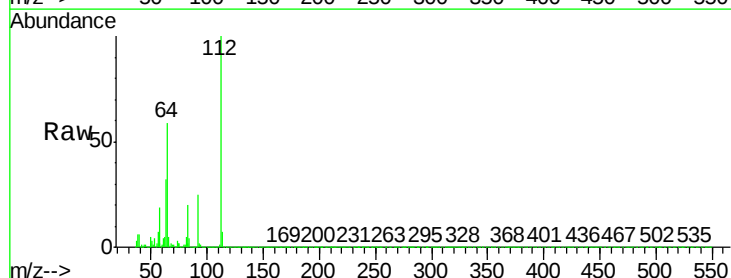
Tot Ion:152 Resp: 233474  
Ion Ratio Lower Upper  
152 100  
150 154.8 124.2 186.2  
115 58.9 47.1 70.7

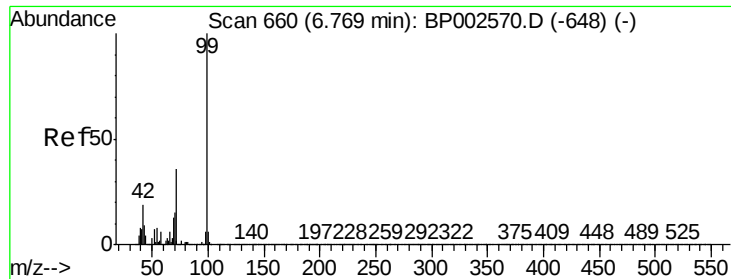


#5

2-Fluorophenol  
Concen: 121.592 ng  
RT: 5.19 min Scan# 392  
Delta R.T. 0.00 min  
Lab File: BP002593.D  
Acq: 01 Jul 2020 07:33

Tgt Ion:112 Resp: 1676710  
Ion Ratio Lower Upper  
112 100  
64 58.7 47.0 70.6  
63 32.1 26.1 39.1





#7

Phenol-d6

Concen: 77.080 ng

RT: 6.77 min Scan# 660

Delta R.T. 0.00 min

Lab File: BP002593.D

Acq: 01 Jul 2020 07:33

Instrument :

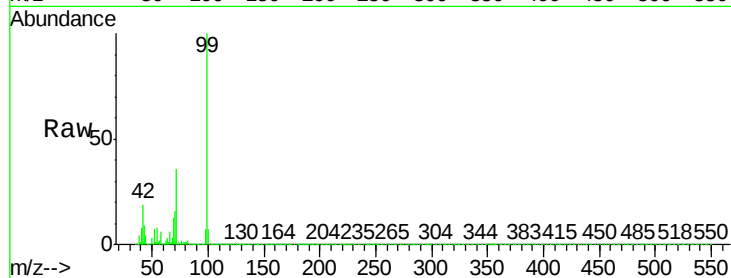
BNA\_P

ClientSampleId :

EPEC-POLYMERS-02

Tot Ion: 99 Resp: 1483550

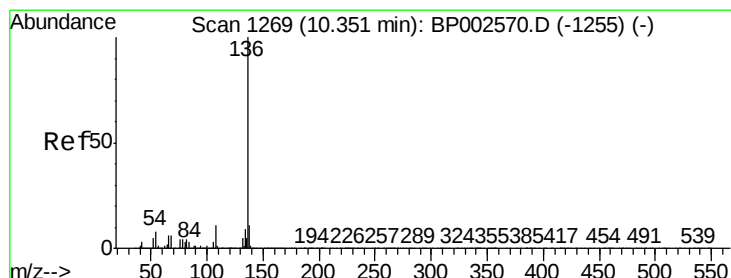
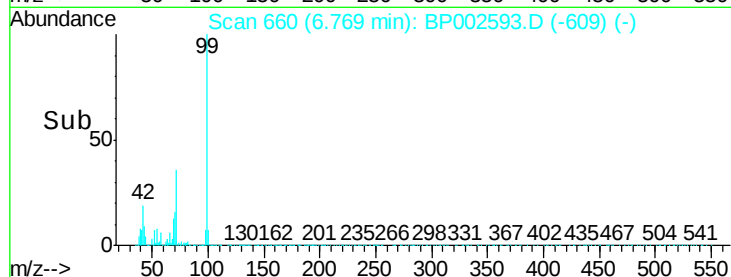
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.4  | 15.5  | 23.3  |
| 71  | 36.4  | 28.9  | 43.3  |



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.34 min Scan# 1267

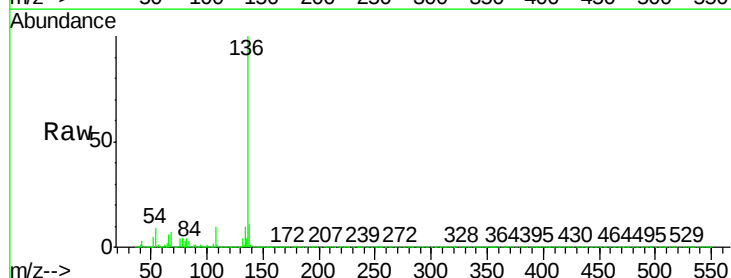
Delta R.T. -0.01 min

Lab File: BP002593.D

Acq: 01 Jul 2020 07:33

Tgt Ion: 136 Resp: 908904

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.0  | 8.8   | 13.2  |
| 54  | 8.6   | 6.4   | 9.6   |
| 68  | 6.8   | 5.1   | 7.7   |

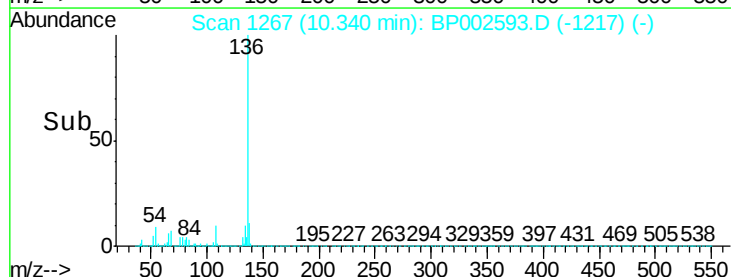


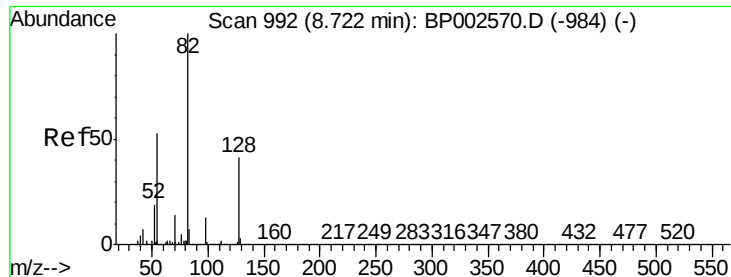
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BP0

Ion 68.00 (67.70 to 68.70): BP0

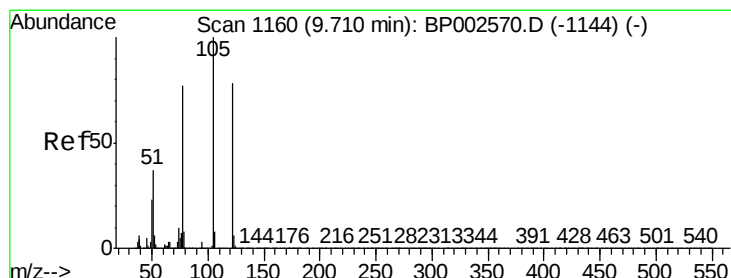
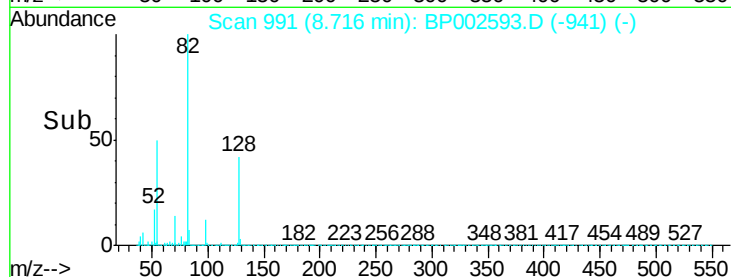
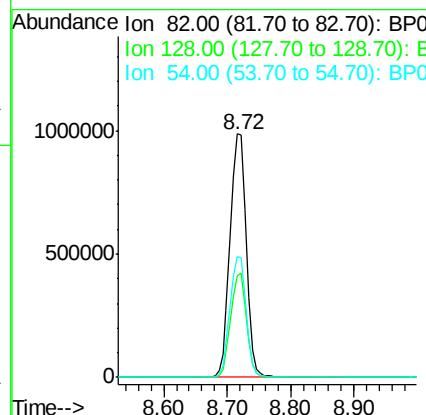
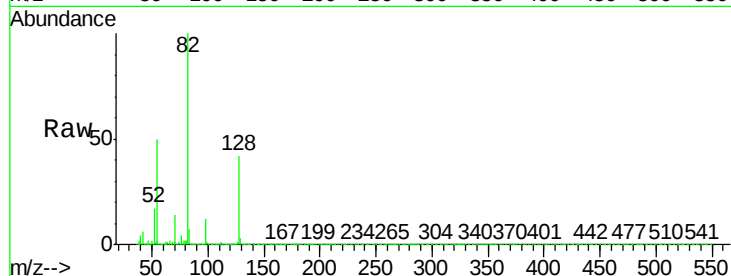




#23  
 Nitrobenzene-d5  
 Concen: 98.747 ng  
 RT: 8.72 min Scan# 991  
 Delta R.T. -0.01 min  
 Lab File: BP002593.D  
 Acq: 01 Jul 2020 07:33

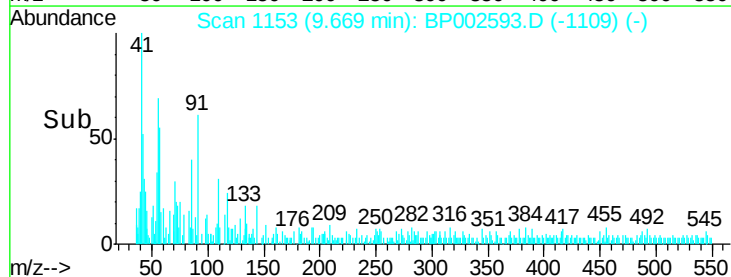
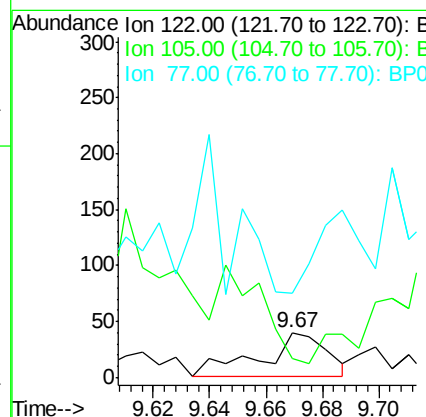
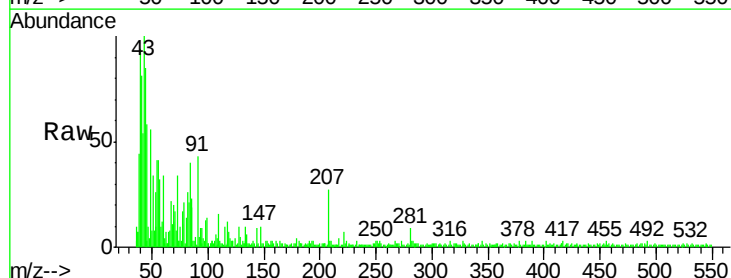
Instrument :  
 BNA\_P  
 ClientSampleId :  
 EPEC-POLYMERS-02

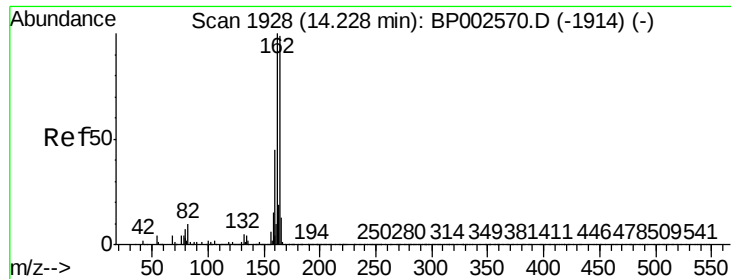
Tot Ion: 82 Resp: 1741892  
 Ion Ratio Lower Upper  
 82 100  
 128 41.9 33.4 50.2  
 54 49.7 40.1 60.1



#32  
 Benzoic acid  
 Concen: 8.705 ng  
 RT: 9.67 min Scan# 1153  
 Delta R.T. -0.04 min  
 Lab File: BP002593.D  
 Acq: 01 Jul 2020 07:33

Tgt Ion: 122 Resp: 64  
 Ion Ratio Lower Upper  
 122 100  
 105 42.5 106.6 146.6#  
 77 187.5 76.5 116.5#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.22 min Scan# 1927

Delta R.T. 0.00 min

Lab File: BP002593.D

Acq: 01 Jul 2020 07:33

Instrument :

BNA\_P

ClientSampleId :

EPEC-POLYMERS-02

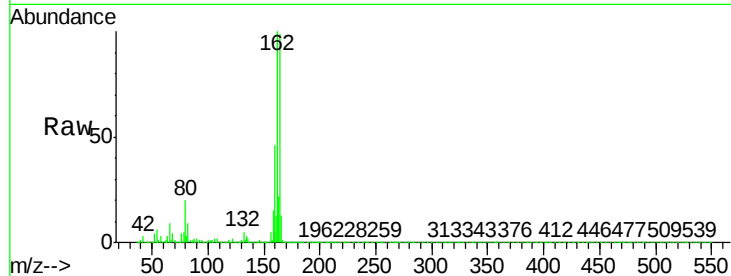
Tot Ion:164 Resp: 472523

Ion Ratio Lower Upper

164 100

162 100.7 80.3 120.5

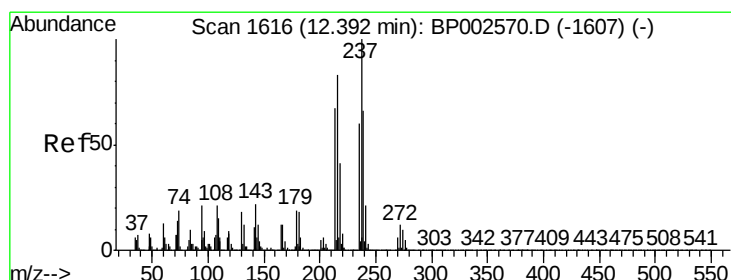
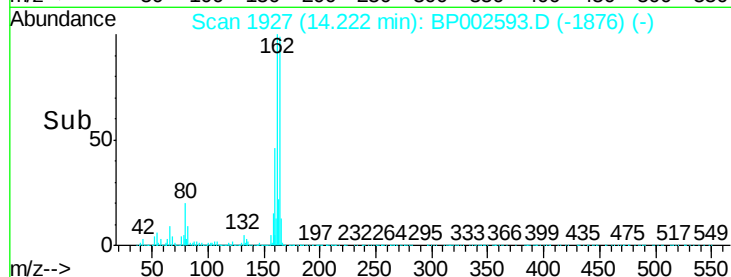
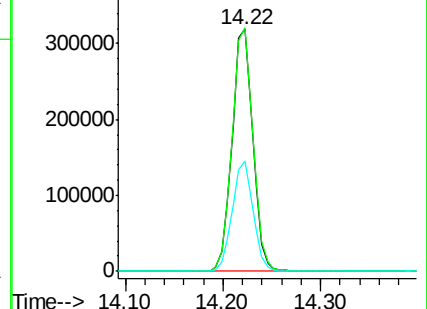
160 45.9 35.0 52.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

Hexachlorocyclopentadiene

Concen: 4.384 ng

RT: 12.46 min Scan# 1628

Delta R.T. 0.08 min

Lab File: BP002593.D

Acq: 01 Jul 2020 07:33

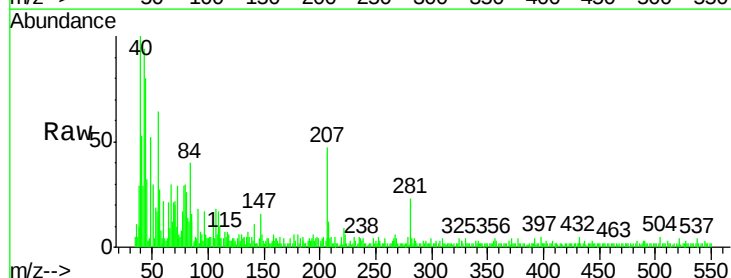
Tgt Ion:237 Resp: 23

Ion Ratio Lower Upper

237 100

235 71.9 45.4 85.4

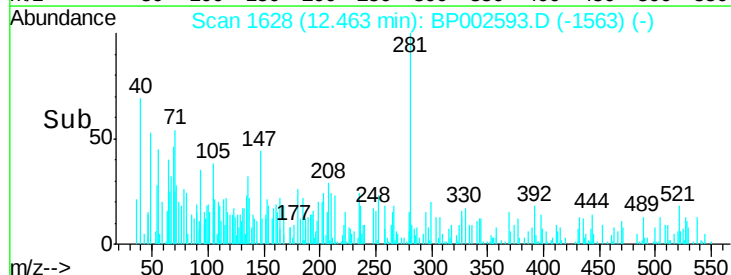
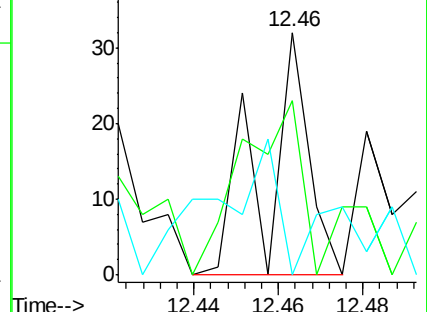
272 0.0 0.0 32.6

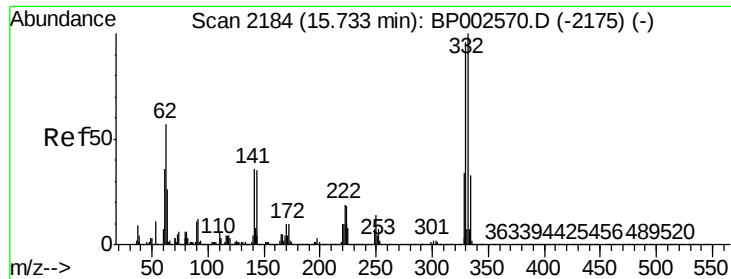


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

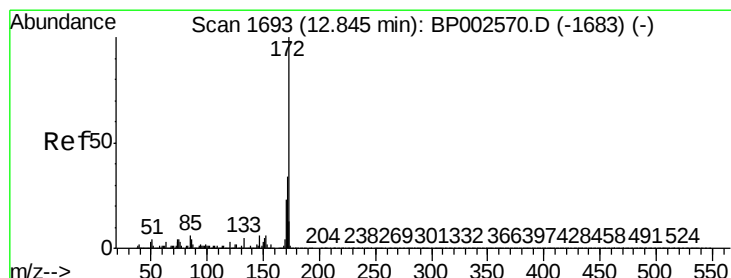
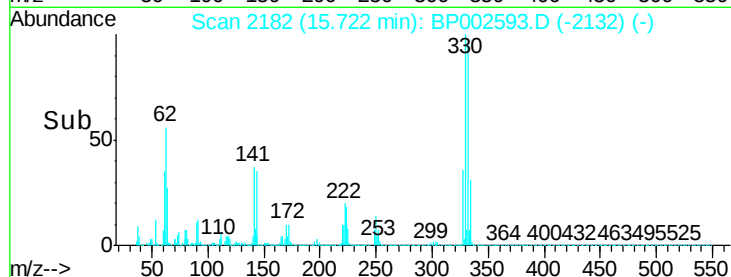
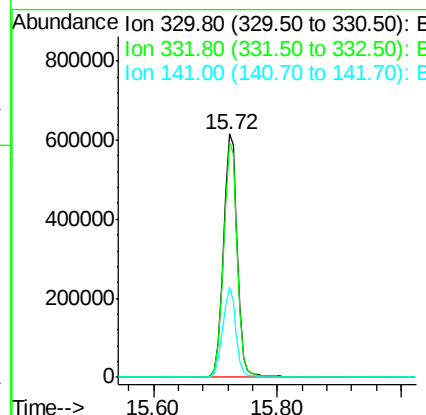
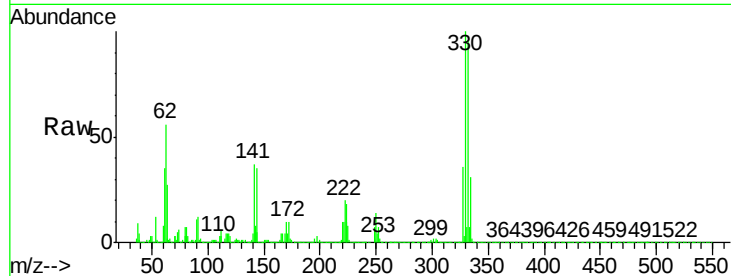




#42  
 2,4,6-Tribromophenol  
 Concen: 167.593 ng  
 RT: 15.72 min Scan# 2182  
 Delta R.T. -0.01 min  
 Lab File: BP002593.D  
 Acq: 01 Jul 2020 07:33

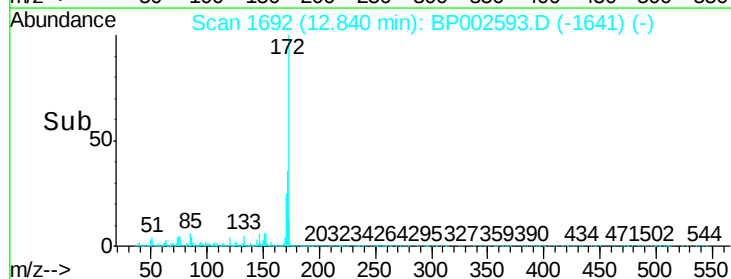
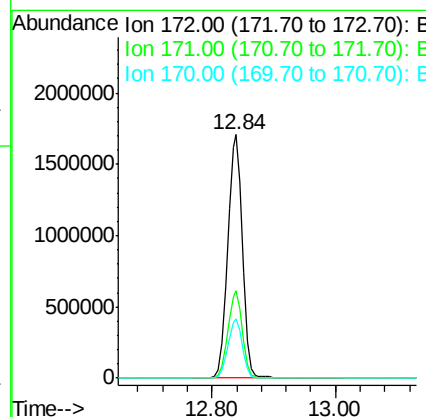
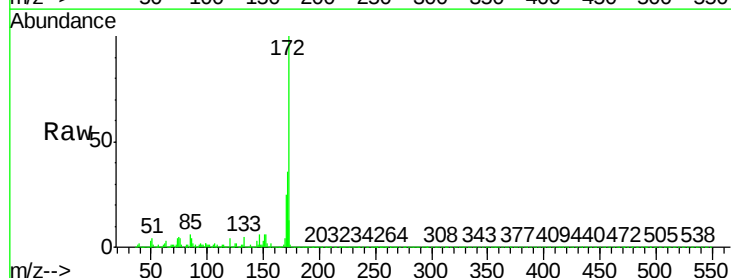
Instrument :  
 BNA\_P  
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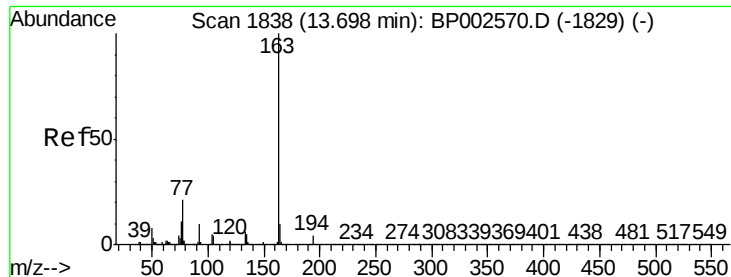
Tot Ion:330 Resp: 963192  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 77.7 116.5  
 141 35.4 29.0 43.6



#45  
 2-Fluorobiphenyl  
 Concen: 88.250 ng  
 RT: 12.84 min Scan# 1692  
 Delta R.T. 0.00 min  
 Lab File: BP002593.D  
 Acq: 01 Jul 2020 07:33

Tgt Ion:172 Resp: 2833222  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 28.0 42.0  
 170 24.5 19.0 28.4





#50

Dimethylphthalate

Concen: 9.495 ng

RT: 13.68 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BP002593.D

Acq: 01 Jul 2020 07:33

Instrument :

BNA\_P

ClientSampleId :

EPEC-POLYMERS-02

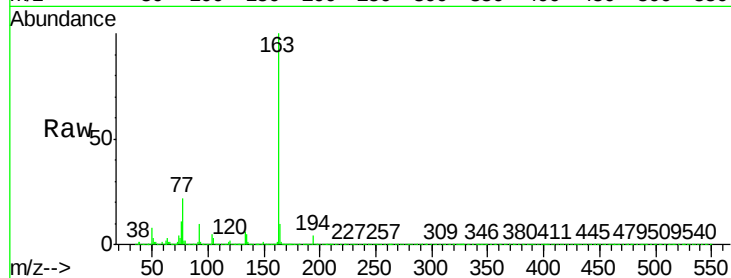
Tot Ion:163 Resp: 352400

Ion Ratio Lower Upper

163 100

194 4.1 3.4 5.0

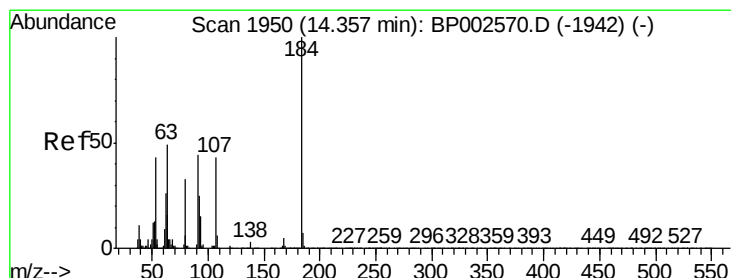
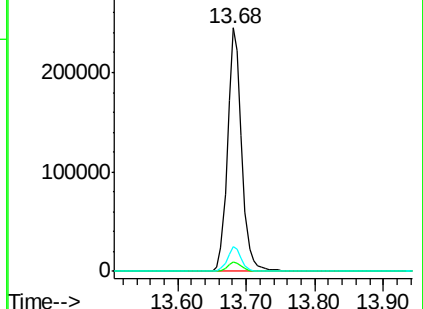
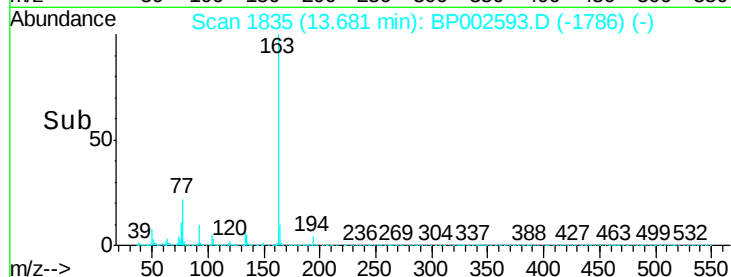
164 9.9 8.2 12.4



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



#54

2,4-Dinitrophenol

Concen: 6.018 ng

RT: 14.35 min Scan# 1949

Delta R.T. 0.01 min

Lab File: BP002593.D

Acq: 01 Jul 2020 07:33

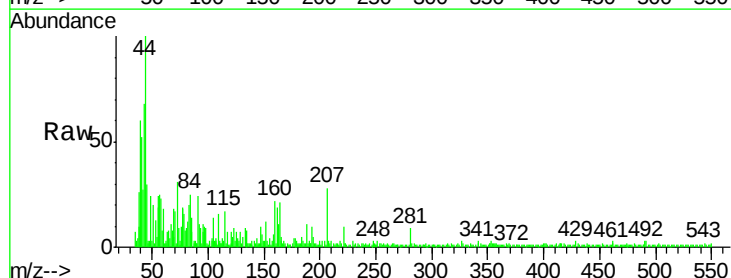
Tgt Ion:184 Resp: 48

Ion Ratio Lower Upper

184 100

63 47.6 56.2 84.2#

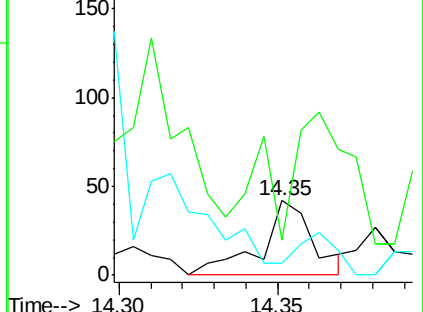
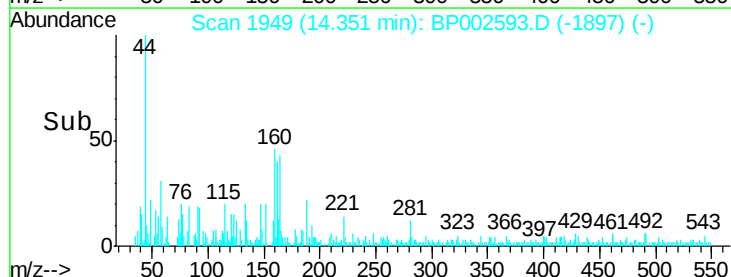
154 16.7 50.9 76.3#

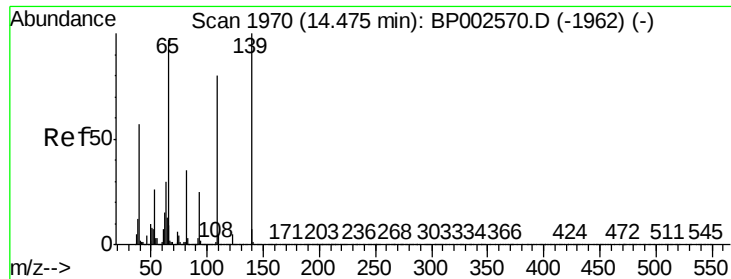


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BP0

Ion 154.00 (153.70 to 154.70): E

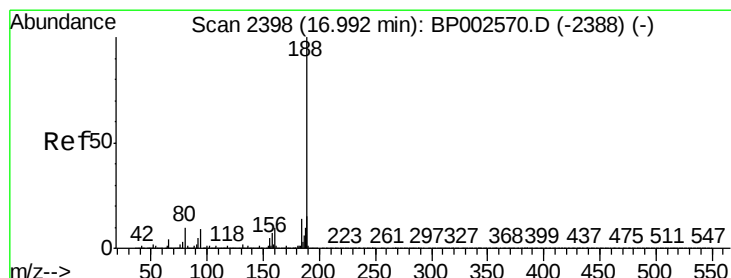
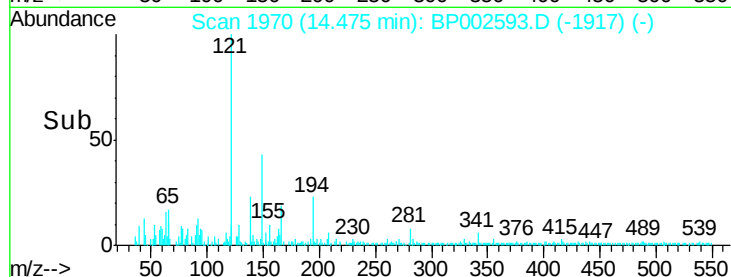
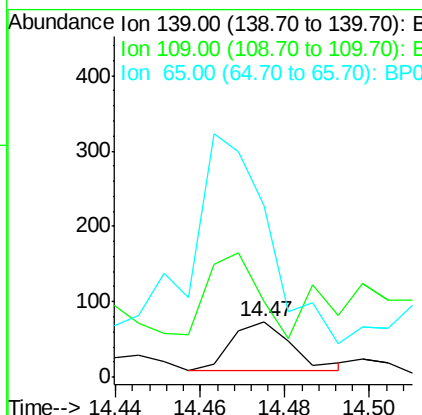
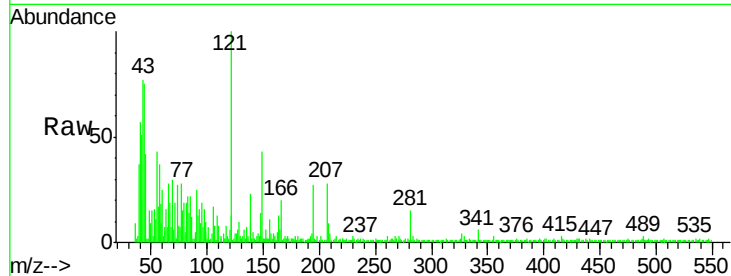




#56  
4-Nitrophenol  
Concen: 2.445 ng  
RT: 14.47 min Scan# 1970  
Delta R.T. 0.01 min  
Lab File: BP002593.D  
Acq: 01 Jul 2020 07:33

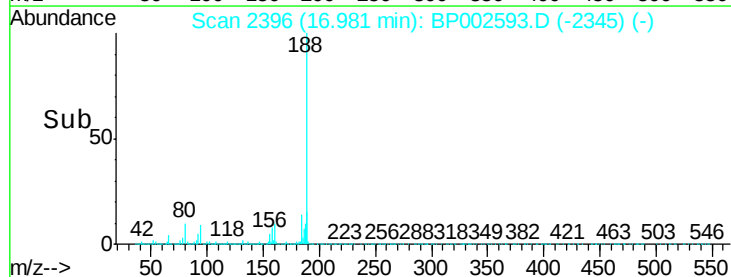
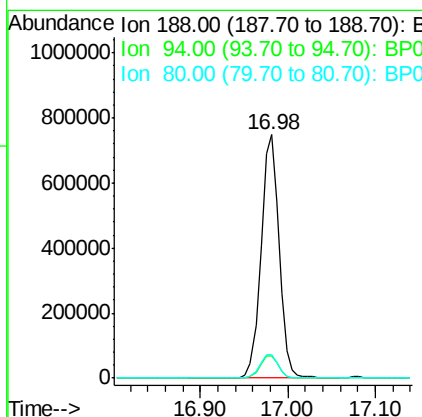
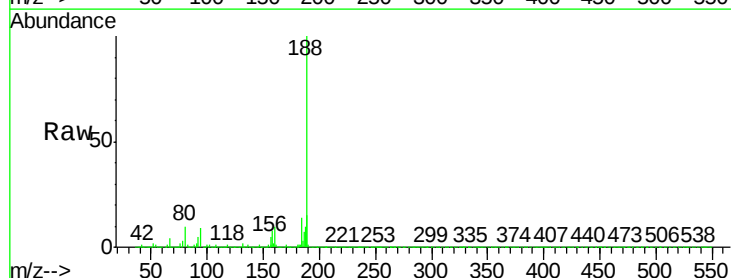
Instrument :  
BNA\_P  
ClientSampleId :  
EPEC-POLYMERS-02

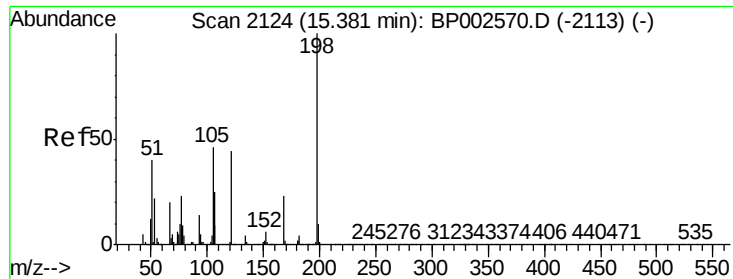
Tot Ion:139 Resp: 66  
Ion Ratio Lower Upper  
139 100  
109 136.5 60.1 100.1#  
65 308.1 80.3 120.3#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.98 min Scan# 2396  
Delta R.T. 0.00 min  
Lab File: BP002593.D  
Acq: 01 Jul 2020 07:33

Tgt Ion:188 Resp: 1062644  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.8 11.6  
80 9.7 8.2 12.4





#65

4,6-Dinitro-2-methylphenol

Concen: 2.729 ng

RT: 15.39 min Scan# 2125

Delta R.T. 0.01 min

Lab File: BP002593.D

Acq: 01 Jul 2020 07:33

Instrument :

BNA\_P

ClientSampleId :

EPEC-POLYMERS-02

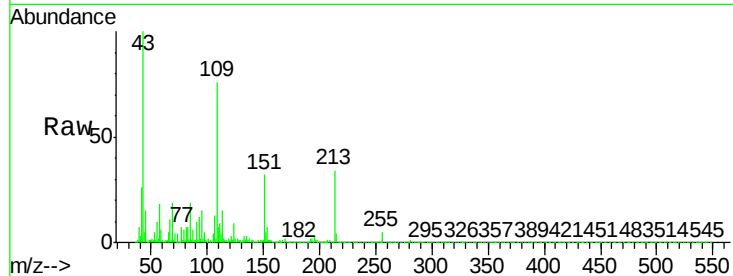
Tot Ion:198 Resp: 140

Ion Ratio Lower Upper

198 100

51 951.6 24.2 64.2#

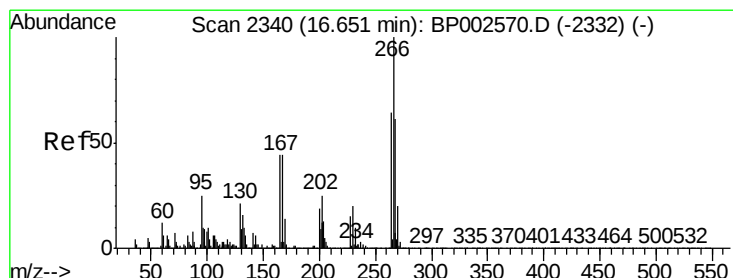
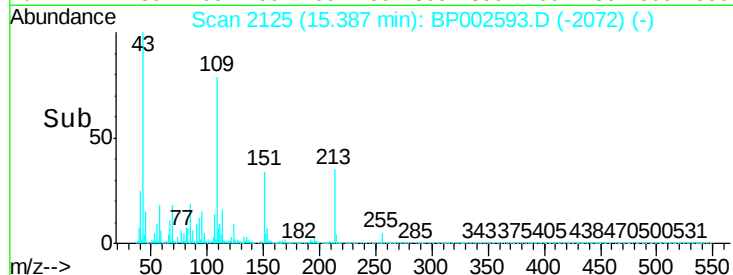
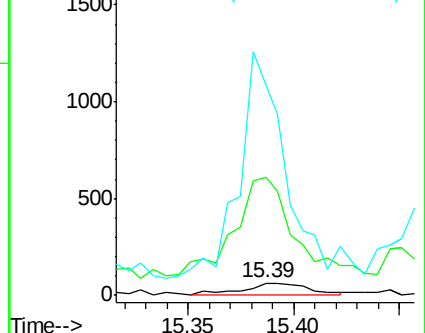
105 1695.3 20.7 60.7#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BP0

Ion 105.00 (104.70 to 105.70): E



#70

Pentachlorophenol

Concen: 2.669 ng

RT: 16.65 min Scan# 2340

Delta R.T. 0.01 min

Lab File: BP002593.D

Acq: 01 Jul 2020 07:33

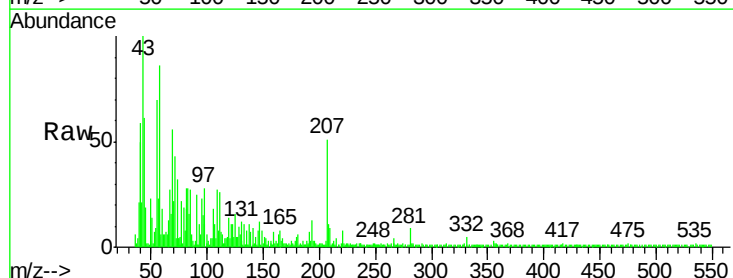
Tgt Ion:266 Resp: 59

Ion Ratio Lower Upper

266 100

268 54.2 49.7 74.5

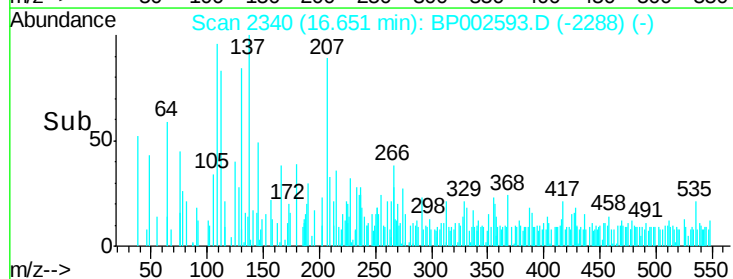
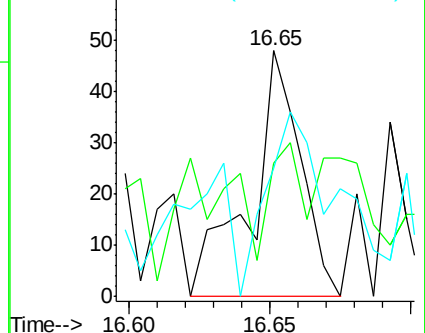
264 52.1 49.3 73.9

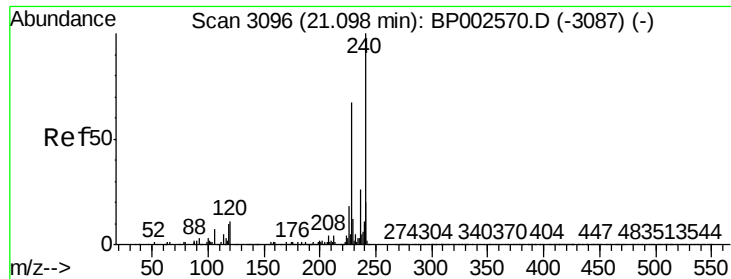


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

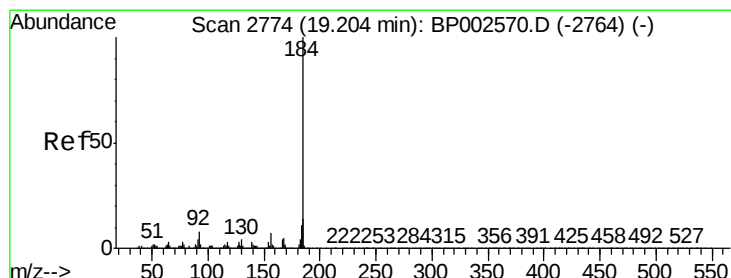
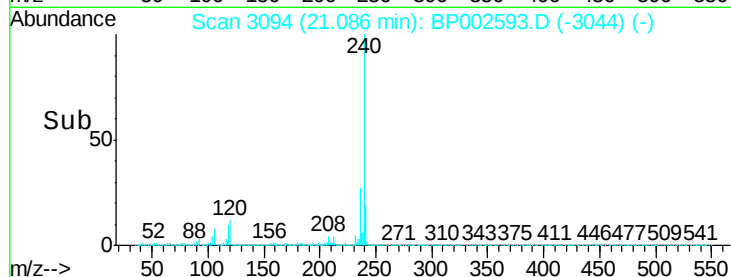
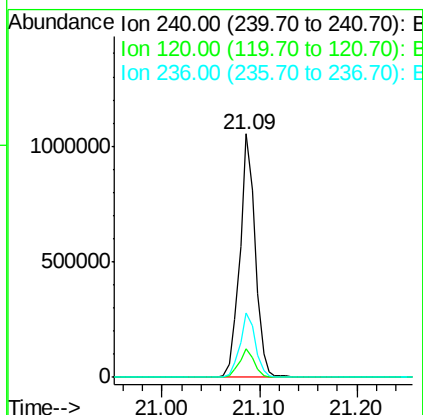
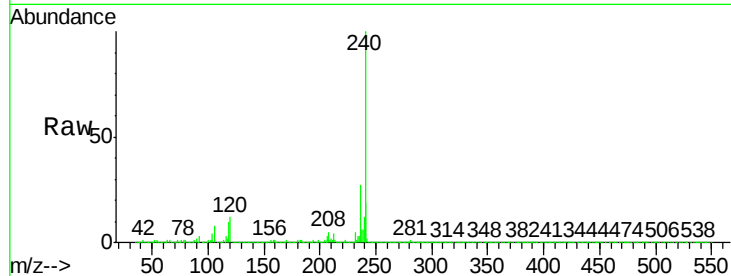




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.09 min Scan# 3094  
Delta R.T. -0.01 min  
Lab File: BP002593.D  
Acq: 01 Jul 2020 07:33

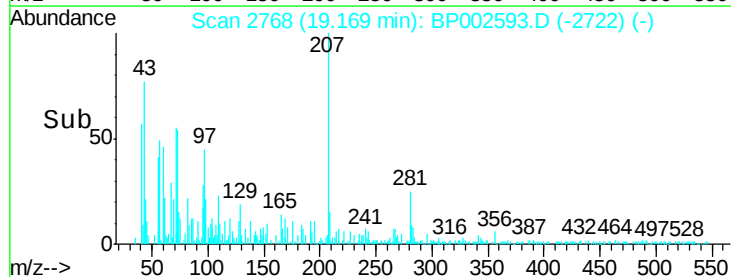
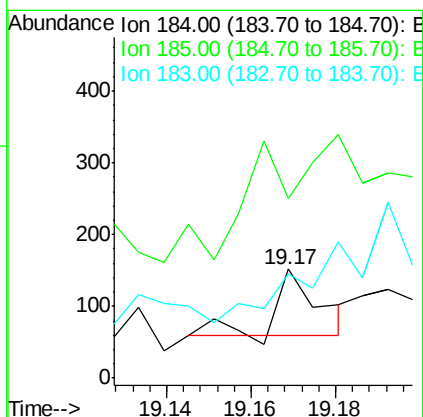
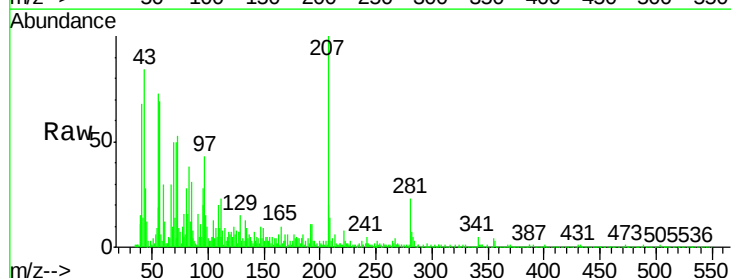
Instrument :  
BNA\_P  
ClientSampleId :  
EPEC-POLYMERS-02

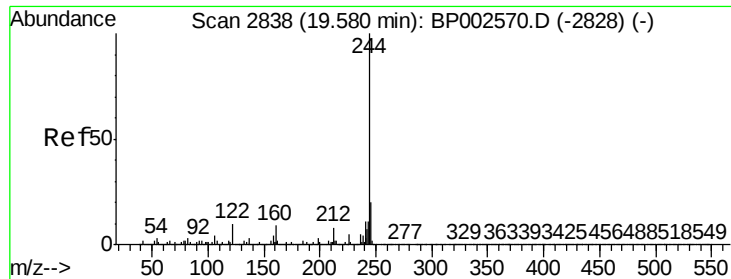
Tot Ion:240 Resp: 1156142  
Ion Ratio Lower Upper  
240 100  
120 11.7 8.6 13.0  
236 26.6 20.8 31.2



#77  
Benzidine  
Concen: 3.757 ng  
RT: 19.17 min Scan# 2768  
Delta R.T. -0.03 min  
Lab File: BP002593.D  
Acq: 01 Jul 2020 07:33

Tgt Ion:184 Resp: 68  
Ion Ratio Lower Upper  
184 100  
185 164.5 11.4 17.2#  
183 96.1 9.2 13.8#





#79

Terphenyl-d14

Concen: 76.426 ng

RT: 19.57 min Scan# 2837

Delta R.T. 0.00 min

Lab File: BP002593.D

Acq: 01 Jul 2020 07:33

Instrument :

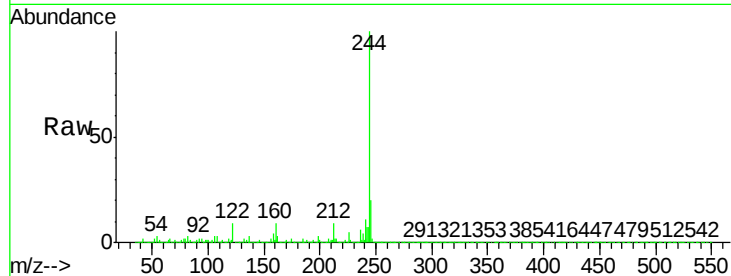
BNA\_P

ClientSampleId :

EPEC-POLYMERS-02

Tot Ion:244 Resp: 4093567

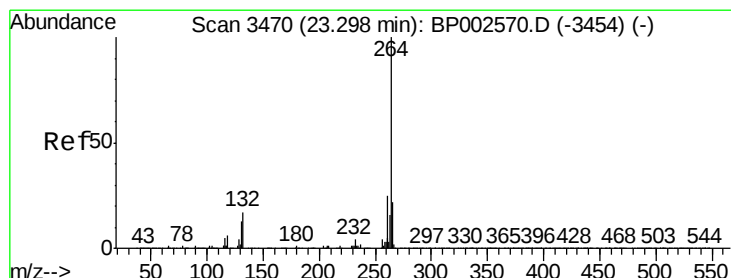
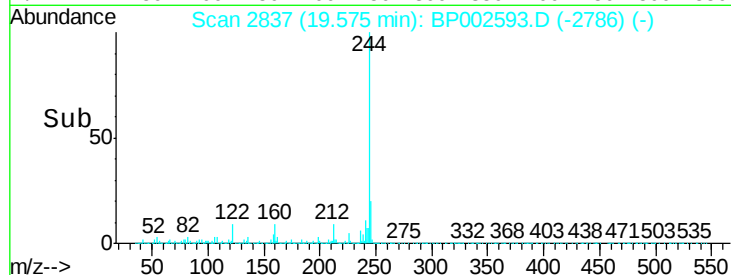
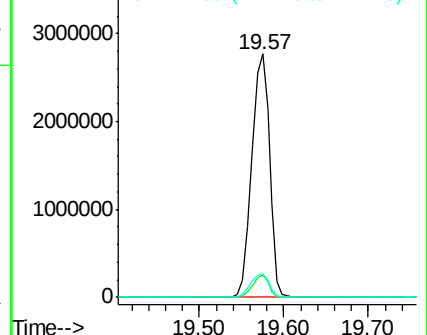
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.9   | 6.5   | 9.7   |
| 122 | 9.5   | 7.9   | 11.9  |



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.29 min Scan# 3468

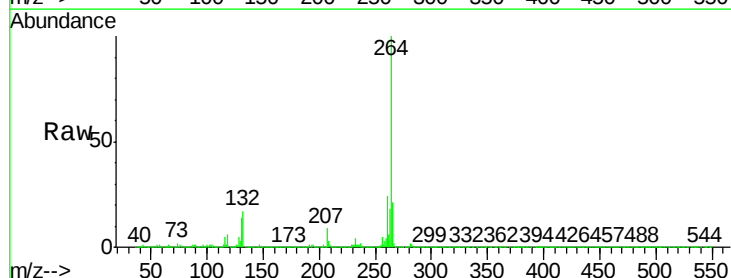
Delta R.T. 0.00 min

Lab File: BP002593.D

Acq: 01 Jul 2020 07:33

Tgt Ion:264 Resp: 1017892

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.3  | 19.7  | 29.5  |
| 265 | 21.1  | 17.6  | 26.4  |



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

