

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\
 Data File : BF116456.D
 Acq On : 21 Aug 2019 3:08
 Operator : HP/JU
 Sample : K4354-03 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 21 06:57:48 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 06:03:31 2019
 Response via : Initial Calibration

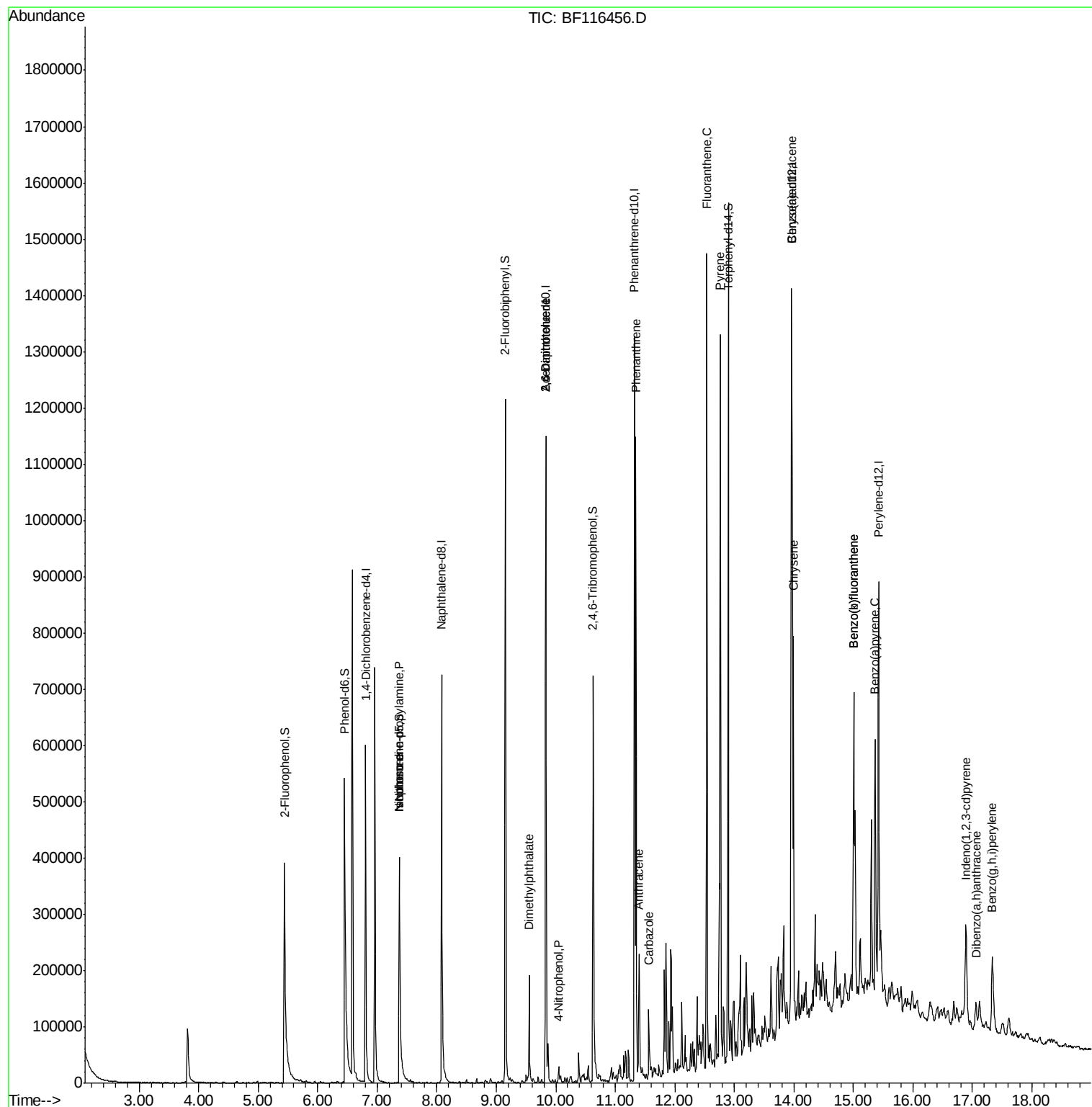
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	96331	20.00	ng	-0.01
21) Naphthalene-d8	8.08	136	392913	20.00	ng	-0.02
39) Acenaphthene-d10	9.83	164	226313	20.00	ng	-0.02
64) Phenanthrene-d10	11.32	188	440387	20.00	ng	-0.02
76) Chrysene-d12	13.96	240	315547	20.00	ng	-0.02
87) Perylene-d12	15.42	264	338137	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	244060	42.41	ng	0.00
7) Phenol-d6	6.45	99	351752	48.45	ng	-0.01
23) Nitrobenzene-d5	7.37	82	212308	31.19	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	99636	45.41	ng	-0.02
45) 2-Fluorobiphenyl	9.15	172	379748	31.43	ng	-0.02
79) Terphenyl-d14	12.90	244	485155	32.40	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.37	70	27159	6.037	ng	# 80
25) Isophorone	7.37	82	212308	16.312	ng	# 65
50) Dimethylphthalate	9.55	163	82775	5.372	ng	99
51) 2,6-Dinitrotoluene	9.83	165	29463	8.798	ng	# 29
56) 4-Nitrophenol	10.05	139	5906	2.228	ng	# 5
57) 2,4-Dinitrotoluene	9.83	165	29463	6.608	ng	# 20
71) Phenanthrene	11.35	178	415747	18.467	ng	98
72) Anthracene	11.40	178	98200	4.310	ng	96
73) Carbazole	11.56	167	42637	2.063	ng	99
75) Fluoranthene	12.54	202	611627	25.950	ng	100
78) Pyrene	12.76	202	550520	23.144	ng	98
81) Benzo(a)anthracene	13.96	228	285592	14.160	ng	98
83) Chrysene	13.99	228	265254	13.547	ng	98
86) Indeno(1,2,3-cd)pyrene	16.89	276	129739	7.889	ng	96
88) Benzo(b)fluoranthene	15.00	252	406069	20.769	ng	99
89) Benzo(k)fluoranthene	15.00	252	406069	21.323	ng	# 98
90) Benzo(a)pyrene	15.36	252	226487	12.959	ng	99
91) Dibenzo(a,h)anthracene	17.06	278	32384	2.141	ng	95
92) Benzo(a,h,i)perylene	17.33	276	116363	7.832	ng	94

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

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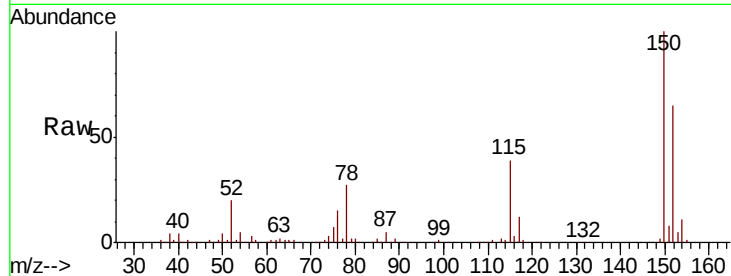


#1

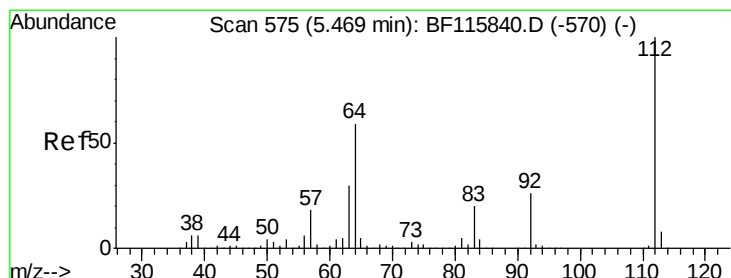
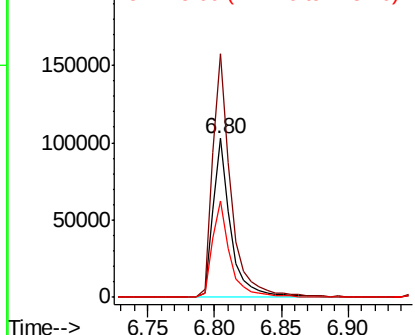
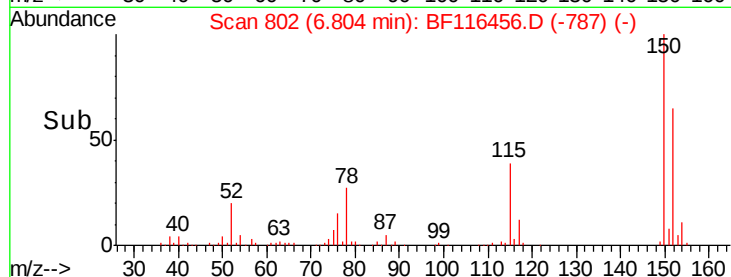
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 96331
Ion Ratio Lower Upper
152 100
150 153.4 126.2 189.2
115 60.4 49.9 74.9



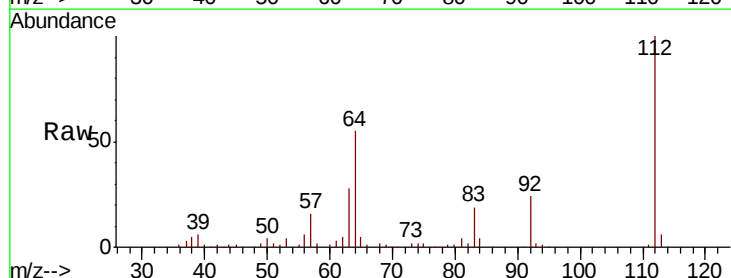
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



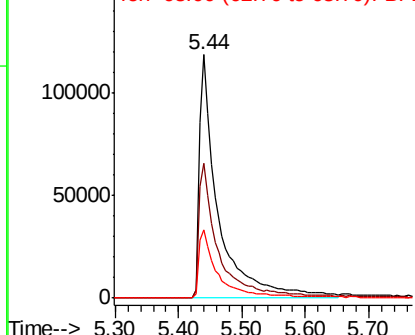
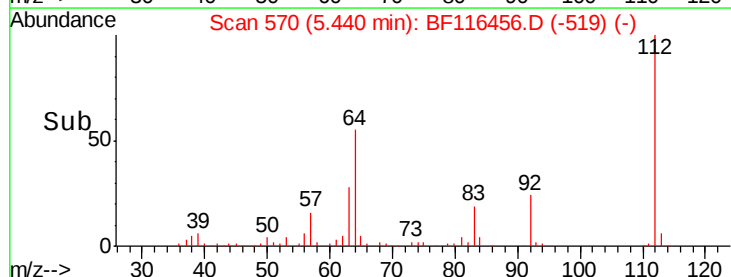
#5

2-Fluorophenol
Concen: 42.413 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.00 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Tgt Ion:112 Resp: 244060
Ion Ratio Lower Upper
112 100
64 55.5 45.4 68.2
63 28.1 23.7 35.5



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: 48.450 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

Instrument :

BNA_F

ClientSampled :

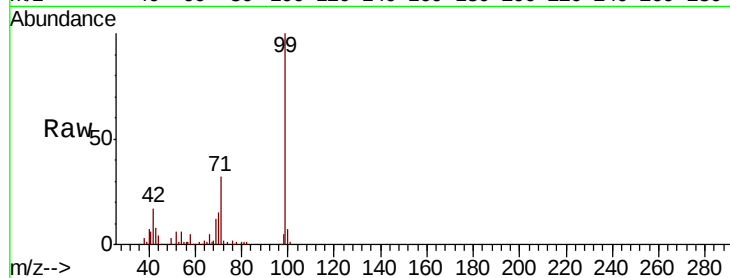
Tot Ion: 99 Resp: 351752

Ion Ratio Lower Upper

99 100

42 17.1 13.8 20.8

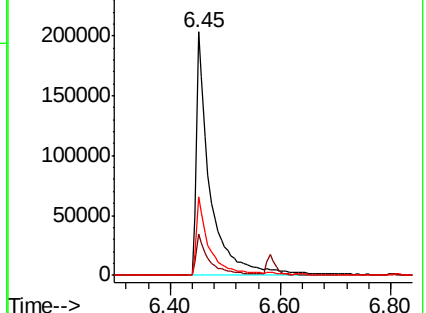
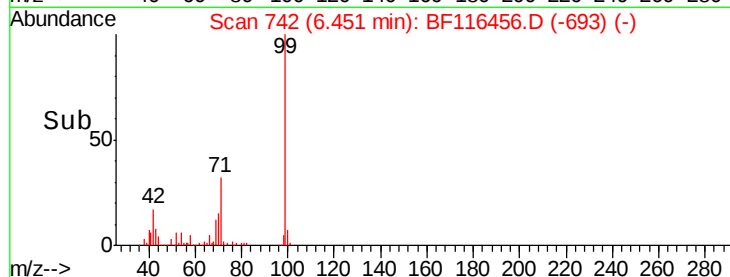
71 32.3 27.3 40.9



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 6.037 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.14 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

Tgt Ion: 70 Resp: 27159

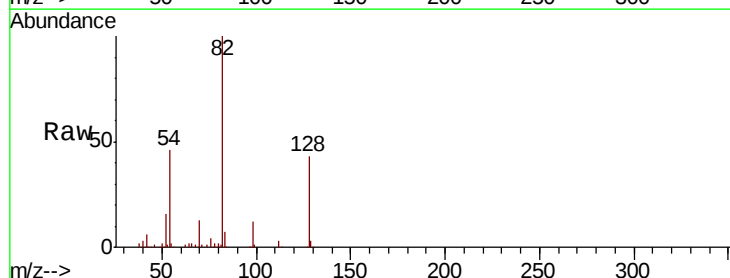
Ion Ratio Lower Upper

70 100

42 44.1 40.9 61.3

101 0.0 7.9 11.9#

130 2.0 16.9 25.3#

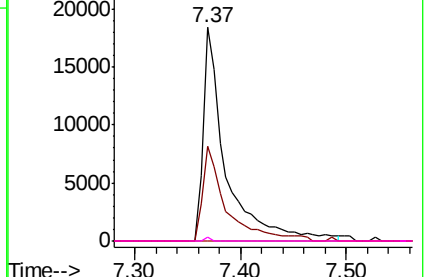
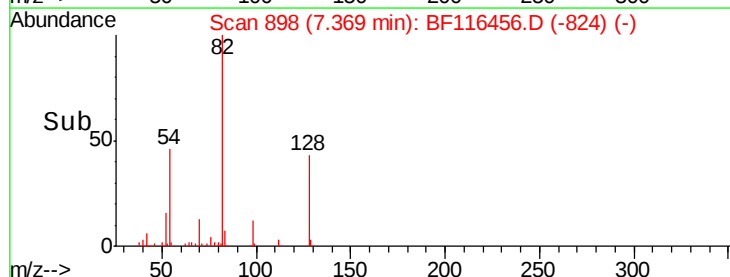


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

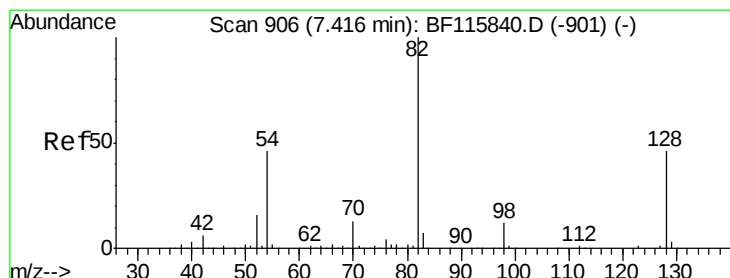
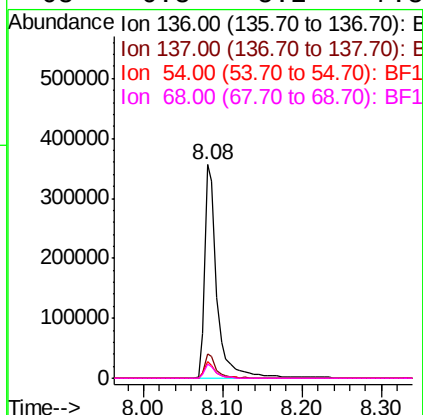
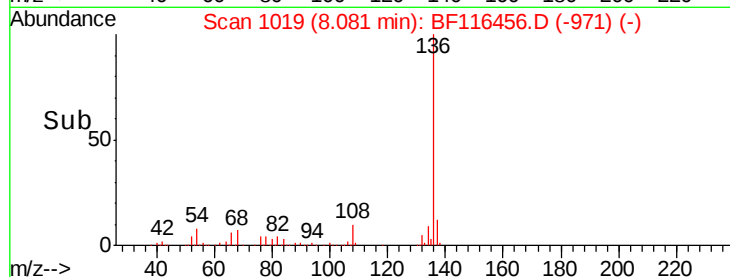
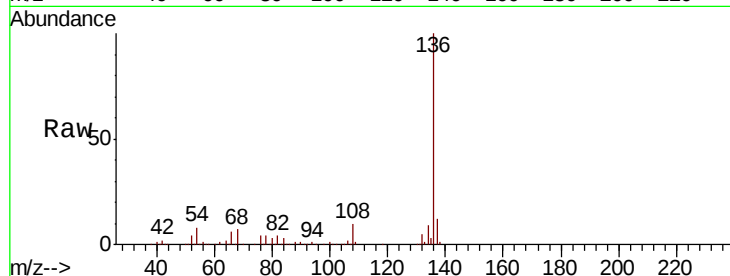




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.08 min Scan# 1019
Delta R.T. -0.02 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

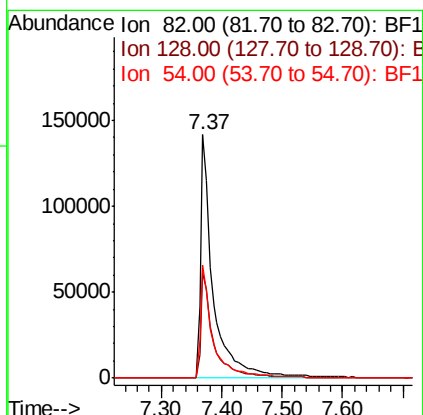
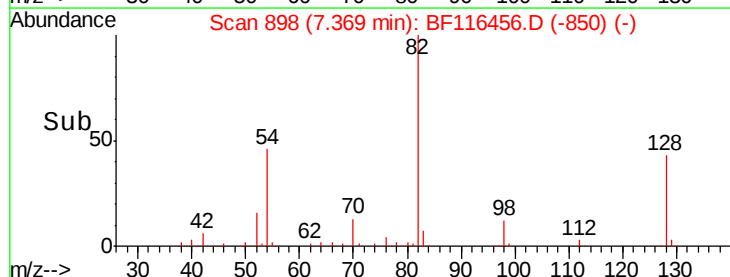
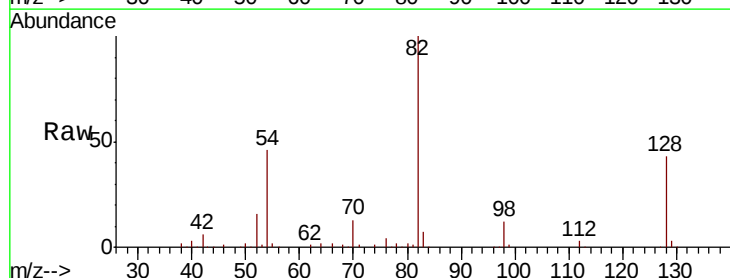
Instrument :
BNA_F
ClientSampled :

Tot Ion:136	Resp:	392913
Ion	Ratio	Lower Upper
136	100	
137	11.6	9.0 13.4
54	7.6	5.8 8.6
68	6.8	5.2 7.8



#23
Nitrobenzene-d5
Concen: 31.190 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.02 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Tgt Ion: 82	Resp:	212308
Ion	Ratio	Lower Upper
82	100	
128	43.2	36.5 54.7
54	46.3	36.0 54.0

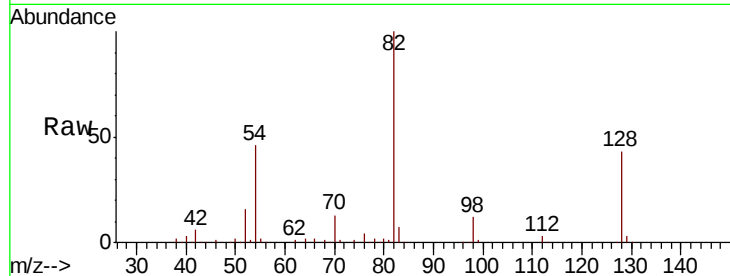




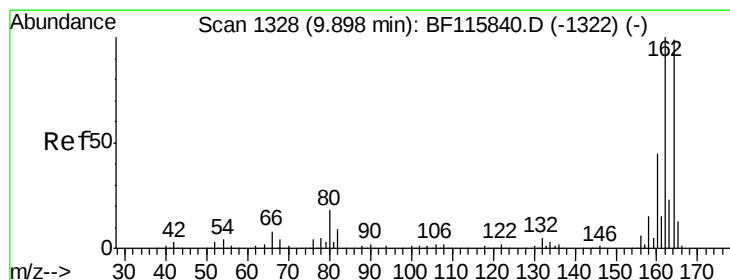
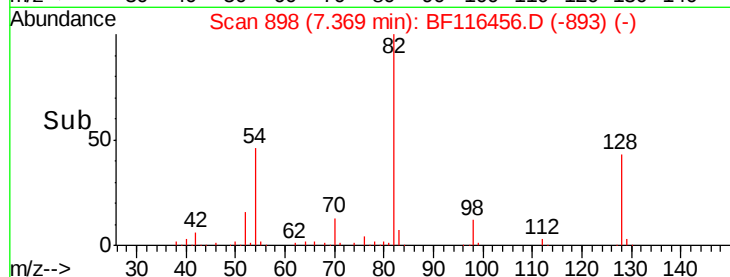
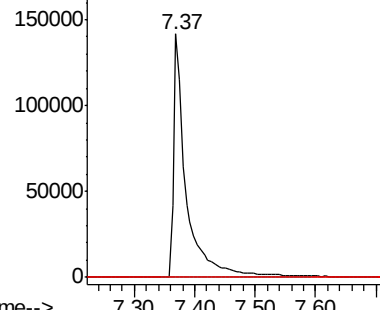
#25
Isophorone
Concen: 16.312 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.27 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 212308
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.0#
138 0.0 14.5 21.7#

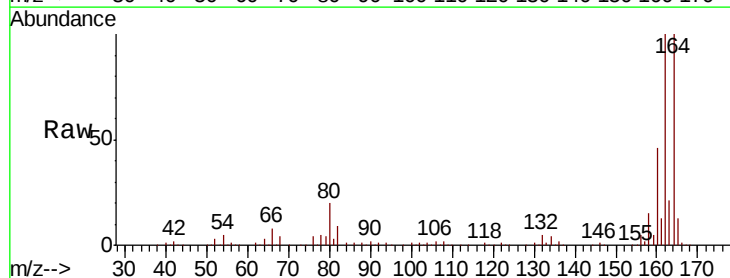


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): E

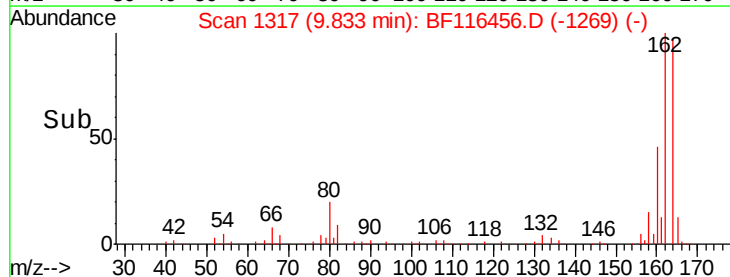
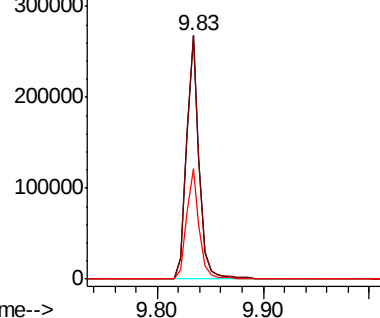


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.02 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Tgt Ion:164 Resp: 226313
Ion Ratio Lower Upper
164 100
162 100.1 82.6 124.0
160 45.6 37.6 56.4



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





#42

2,4,6-Tribromophenol

Concen: 45.409 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.02 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

Instrument :

BNA_F

ClientSampleId :

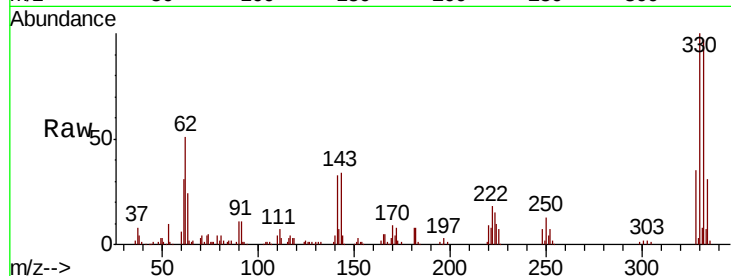
Tot Ion:330 Resp: 99636

Ion Ratio Lower Upper

330 100

332 99.2 76.8 115.2

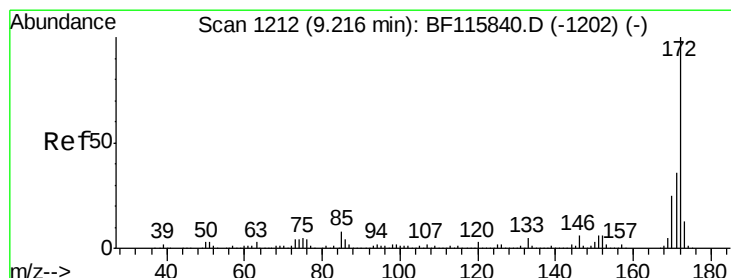
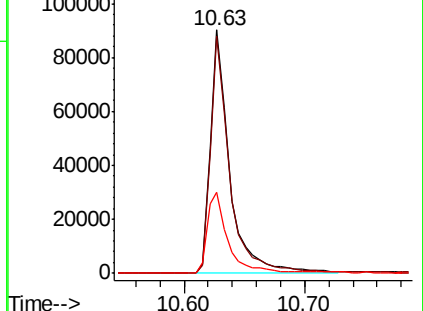
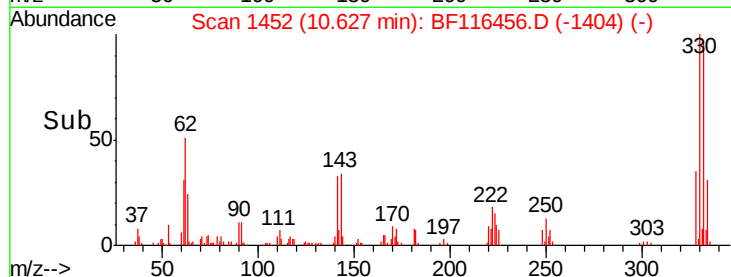
141 36.7 26.3 39.5



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 31.430 ng

RT: 9.15 min Scan# 1201

Delta R.T. -0.02 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

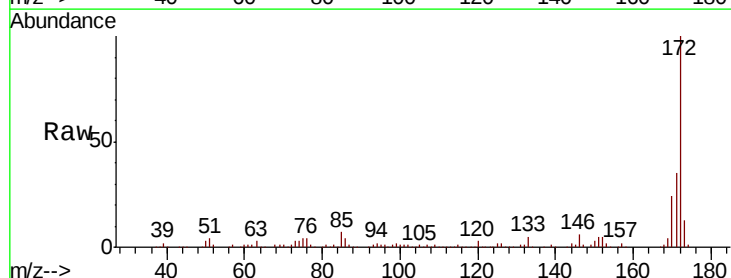
Tgt Ion:172 Resp: 379748

Ion Ratio Lower Upper

172 100

171 35.3 29.6 44.4

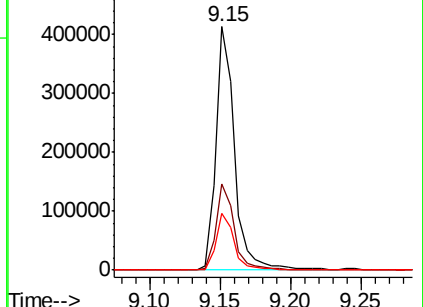
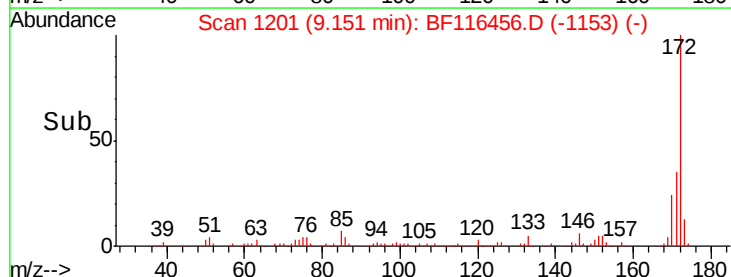
170 23.5 20.1 30.1

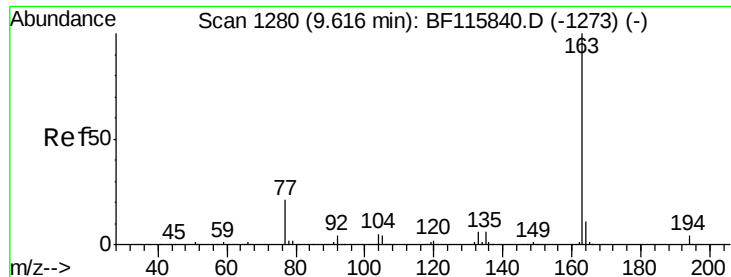


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

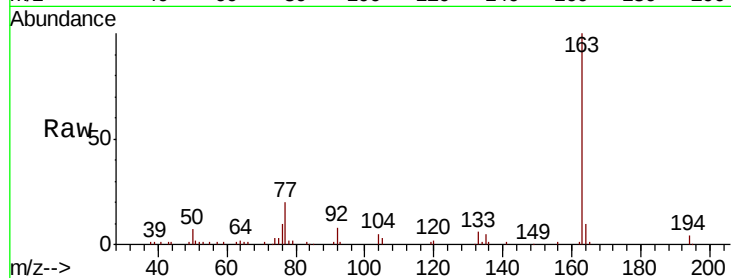




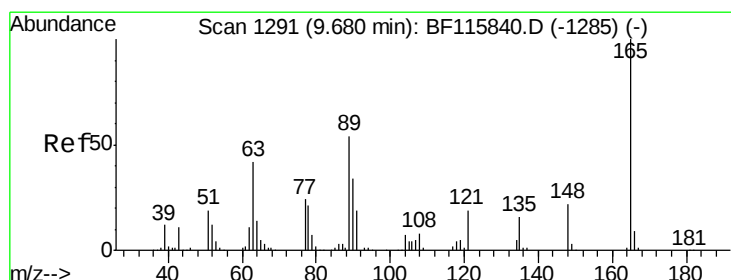
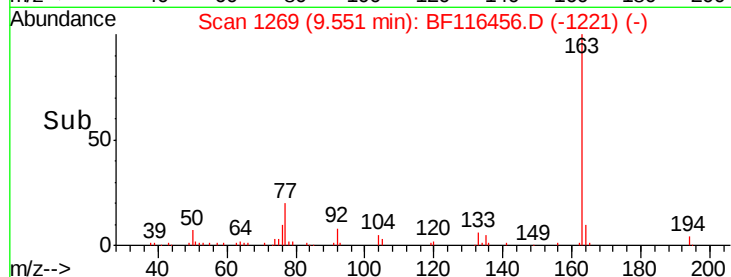
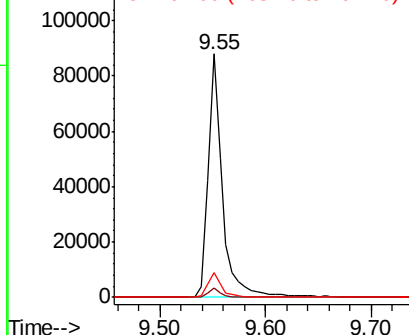
#50
Dimethylphthalate
Concen: 5.372 ng
RT: 9.55 min Scan# 1269
Delta R.T. -0.02 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.0	8.4	12.6

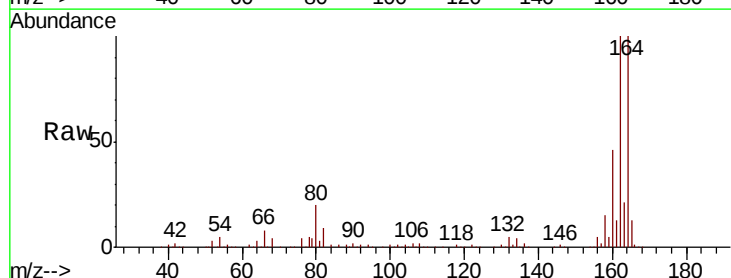


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

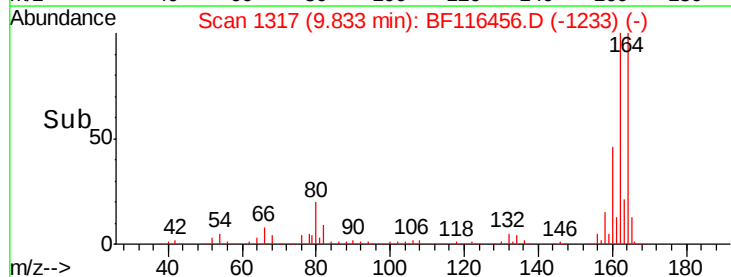
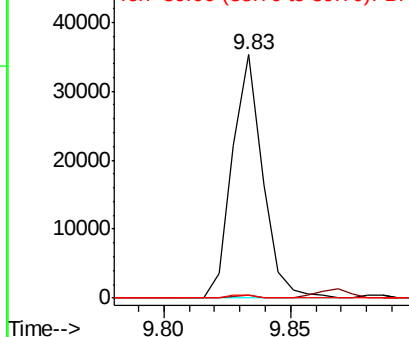


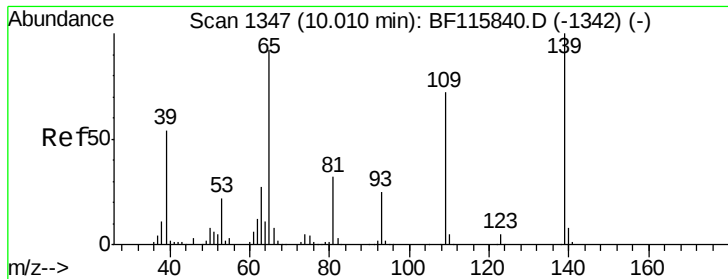
#51
2,6-Dinitrotoluene
Concen: 8.798 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.19 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	38.2	57.2#
89	1.3	42.9	64.3#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1





#56

4-Nitrophenol

Concen: 2.228 ng

RT: 10.05 min Scan# 1354

Delta R.T. 0.06 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

Instrument :

BNA_F

ClientSampleId :

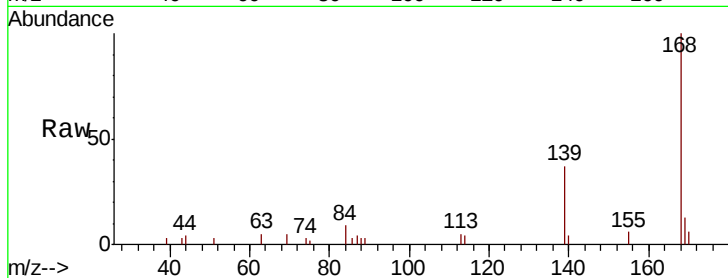
Tot Ion:139 Resp: 5906

Ion Ratio Lower Upper

139 100

109 0.0 54.4 94.4#

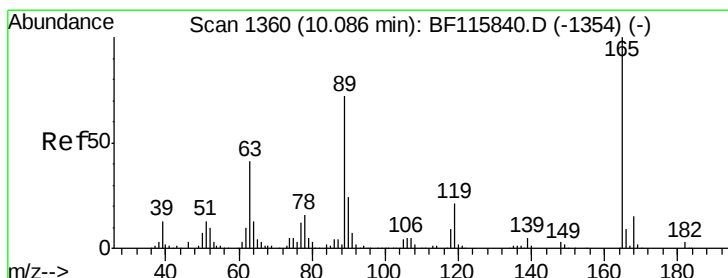
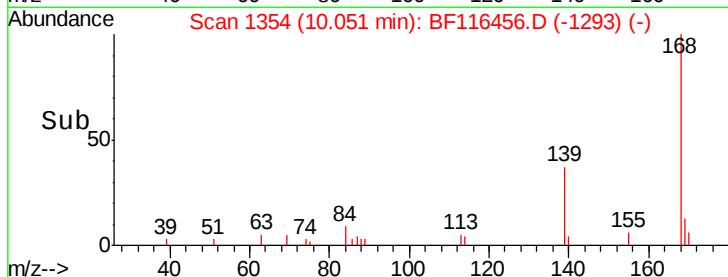
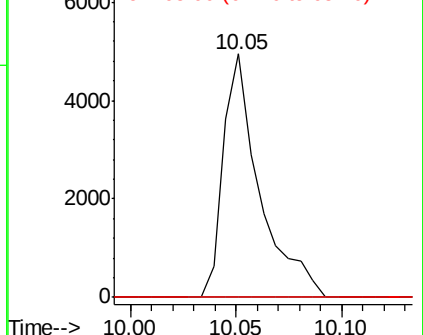
65 0.0 80.6 120.6#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57

2,4-Dinitrotoluene

Concen: 6.608 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.22 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

Tgt Ion:165 Resp: 29463

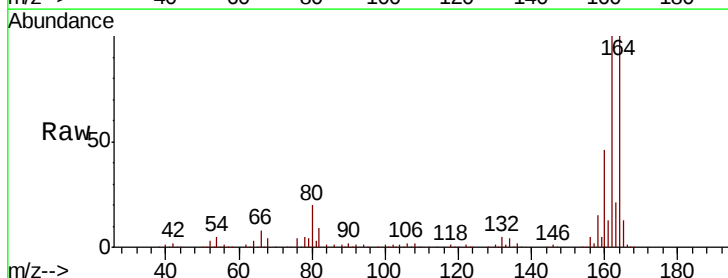
Ion Ratio Lower Upper

165 100

63 1.3 39.6 59.4#

89 1.3 62.2 93.2#

182 0.0 2.1 3.1#

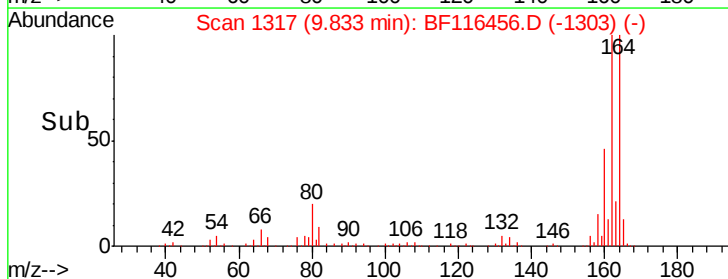
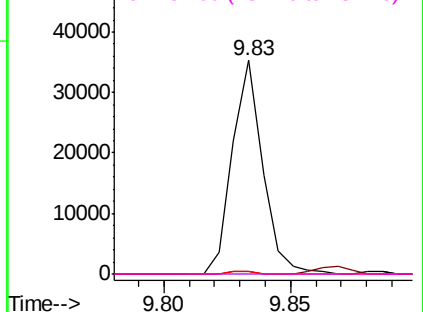


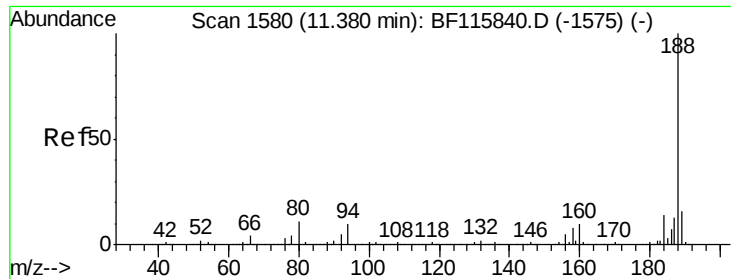
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

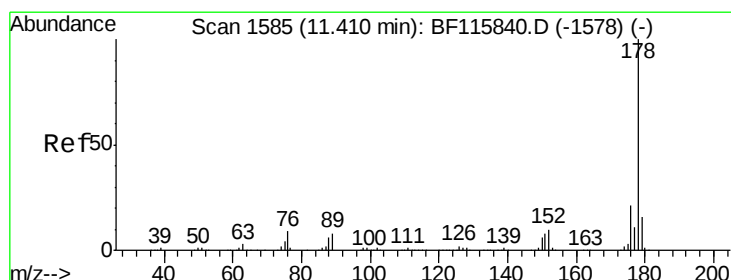
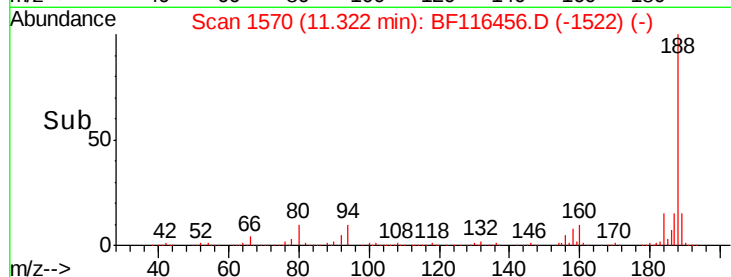
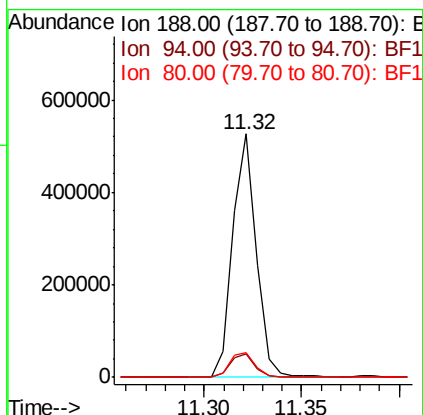
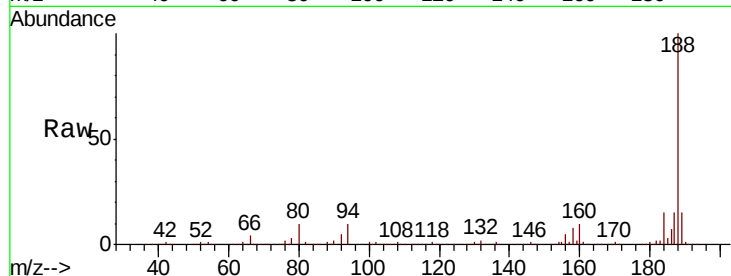




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

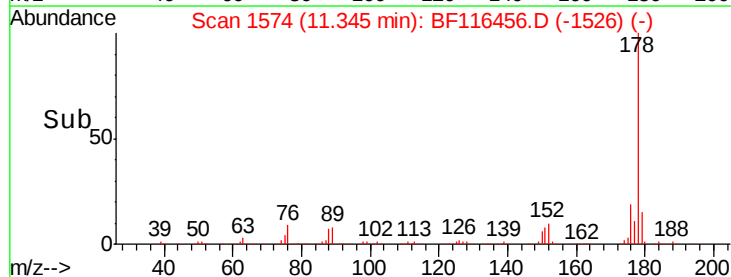
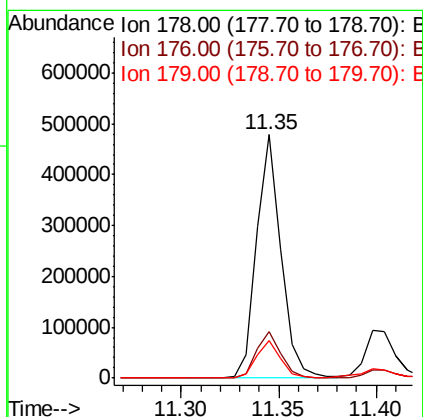
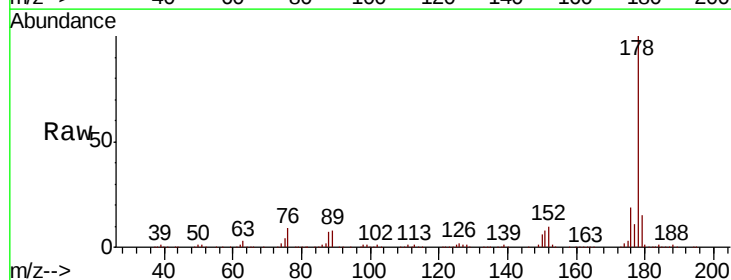
Instrument :
BNA_F
ClientSampleId :

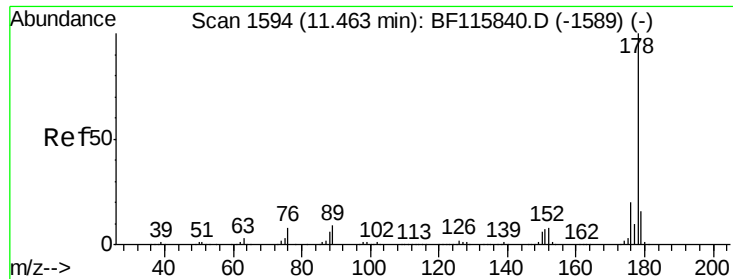
Tot Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.1	12.1
80	10.4	8.7	13.1



#71
Phenanthrene
Concen: 18.467 ng
RT: 11.35 min Scan# 1574
Delta R.T. -0.02 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.6	24.8
179	15.5	12.5	18.7





#72

Anthracene

Concen: 4.310 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.02 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

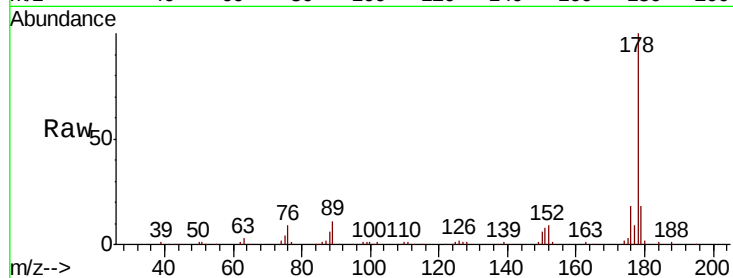
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 98200

Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.7	23.5
179	18.2	13.0	19.6

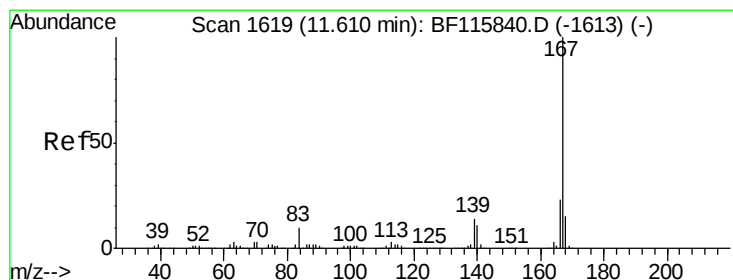
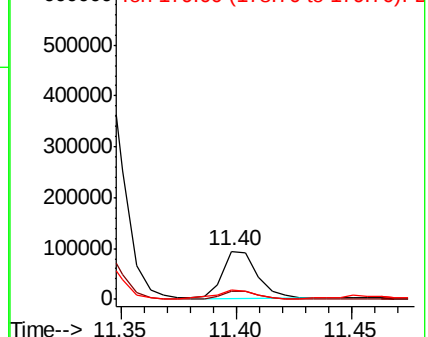
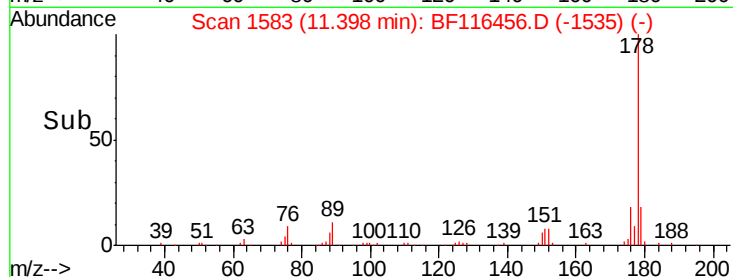


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 2.063 ng

RT: 11.56 min Scan# 1611

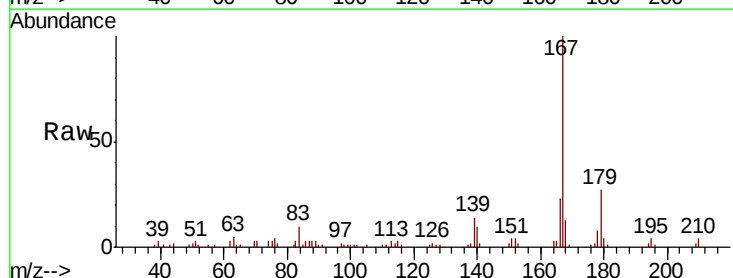
Delta R.T. -0.01 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

Tgt Ion:167 Resp: 42637

Ion	Ratio	Lower	Upper
167	100		
166	22.6	17.8	26.6
139	14.0	11.4	17.0

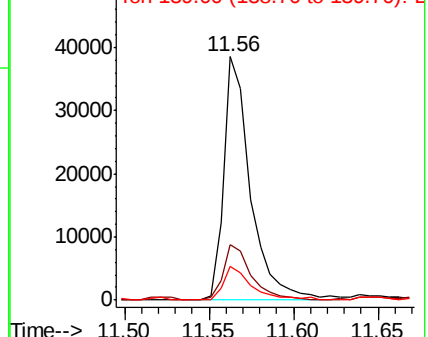
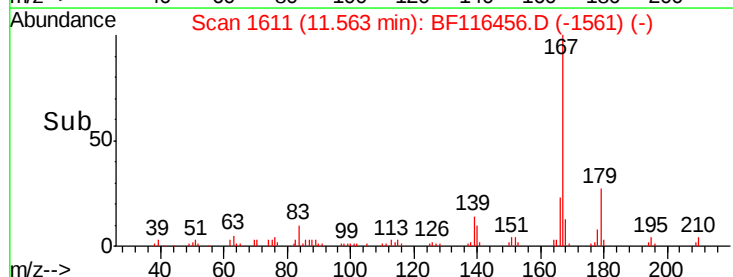


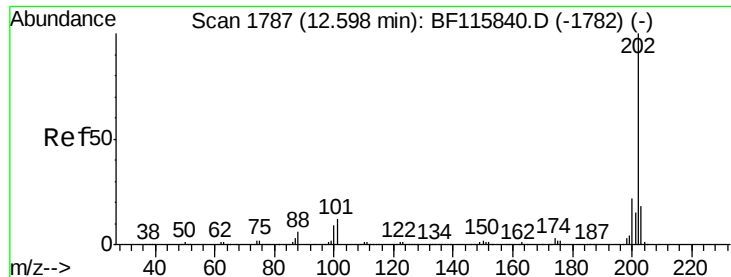
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 25.950 ng

RT: 12.54 min Scan# 1777

Delta R.T. -0.01 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

Instrument :

BNA_F

ClientSampleId :

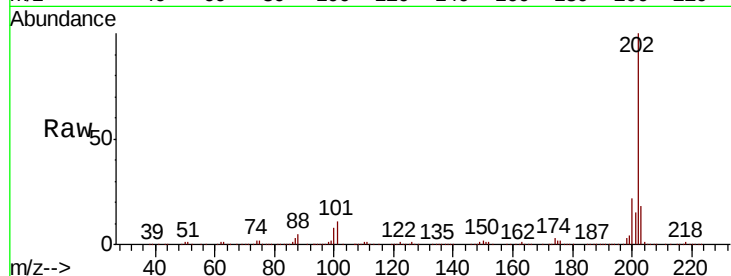
Tot Ion:202 Resp: 611627

Ion Ratio Lower Upper

202 100

101 10.8 0.0 31.2

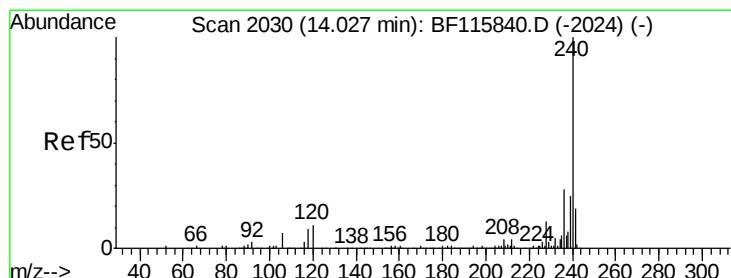
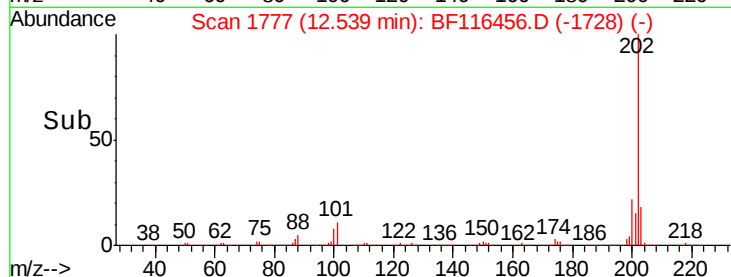
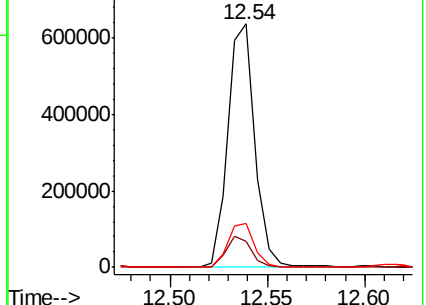
203 17.9 0.0 37.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

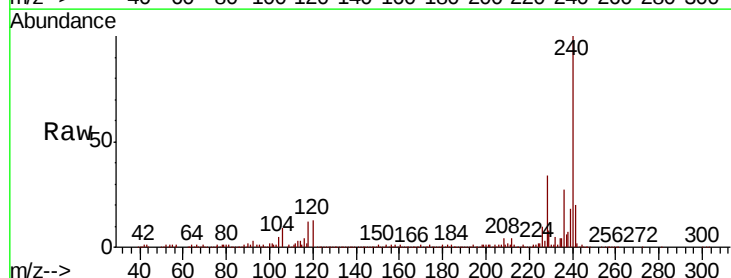
Tgt Ion:240 Resp: 315547

Ion Ratio Lower Upper

240 100

120 12.9 10.7 16.1

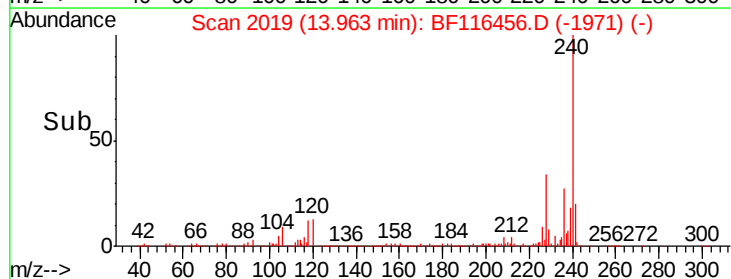
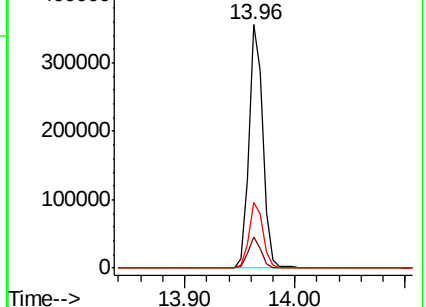
236 27.0 22.2 33.2

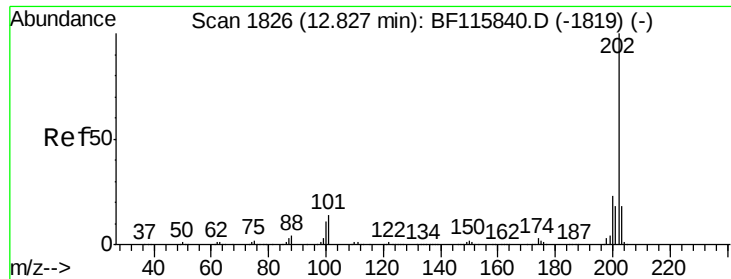


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

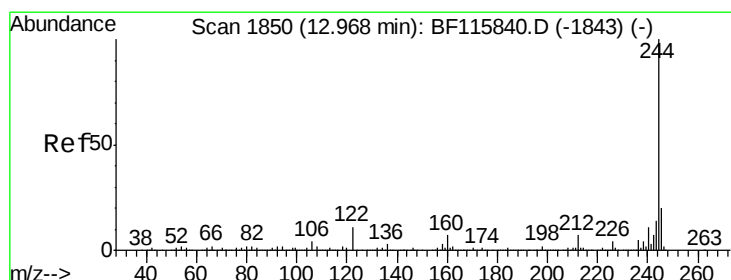
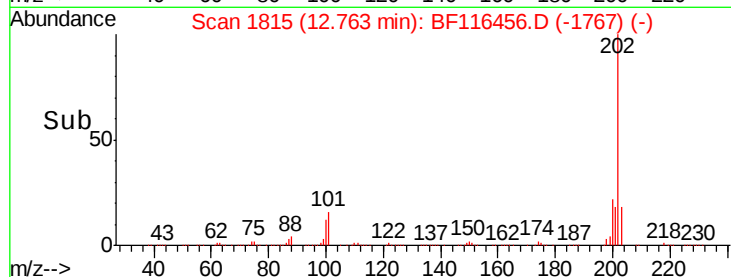
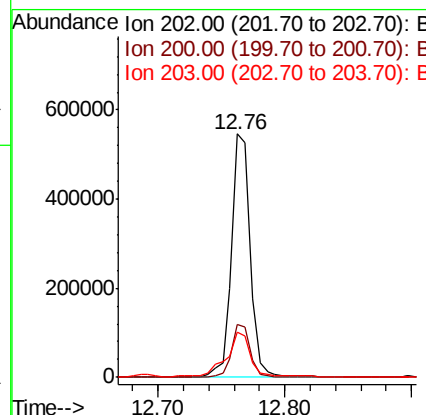
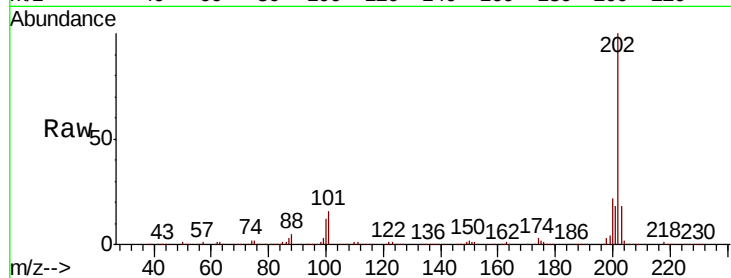




#78
Pvrene
Concen: 23.144 ng
RT: 12.76 min Scan# 1815
Delta R.T. -0.02 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

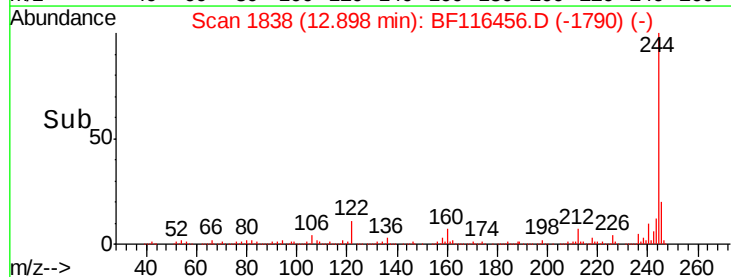
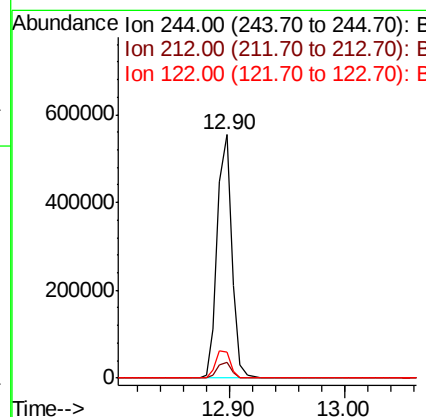
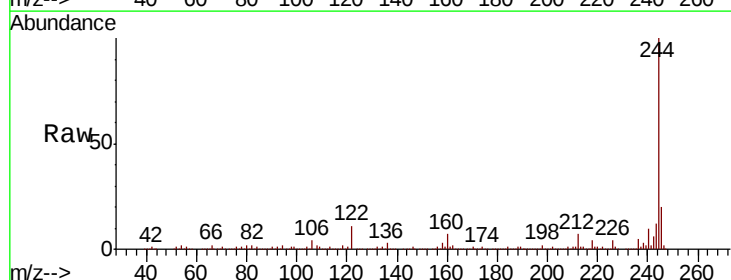
Instrument :
BNA_F
ClientSampleId :

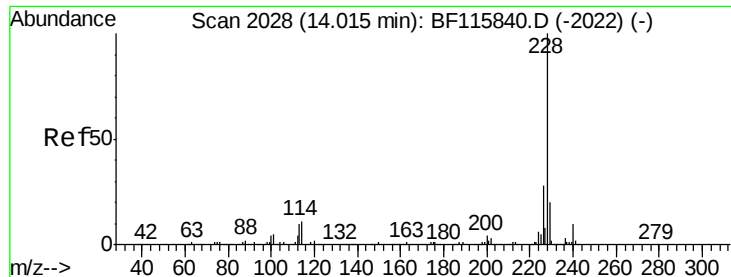
Tot Ion:202 Resp: 550520
Ion Ratio Lower Upper
202 100
200 21.8 18.0 27.0
203 18.4 14.1 21.1



#79
Terphenyl-d14
Concen: 32.398 ng
RT: 12.90 min Scan# 1838
Delta R.T. -0.02 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Tgt Ion:244 Resp: 485155
Ion Ratio Lower Upper
244 100
212 6.7 5.8 8.8
122 10.7 9.0 13.4

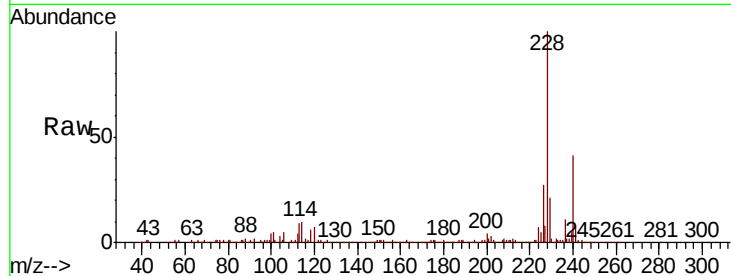




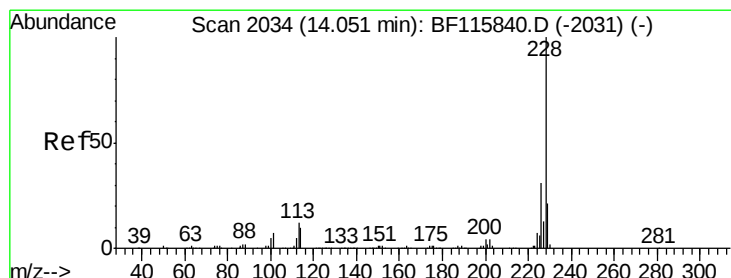
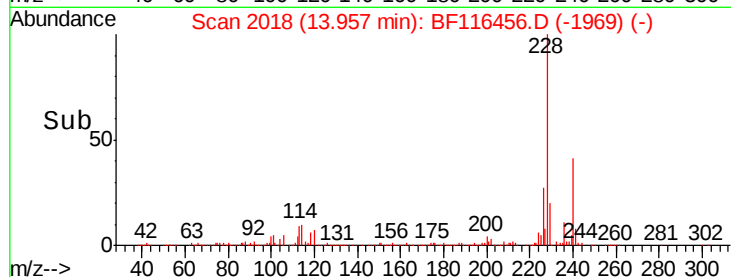
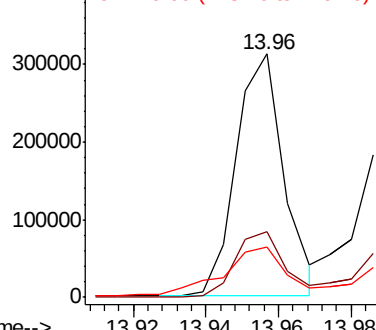
#81
Benzo(a)anthracene
Concen: 14.160 ng
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 285592
Ion Ratio Lower Upper
228 100
226 27.2 22.7 34.1
229 20.5 16.2 24.4

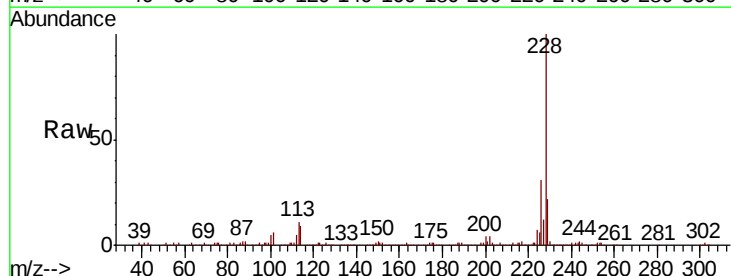


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

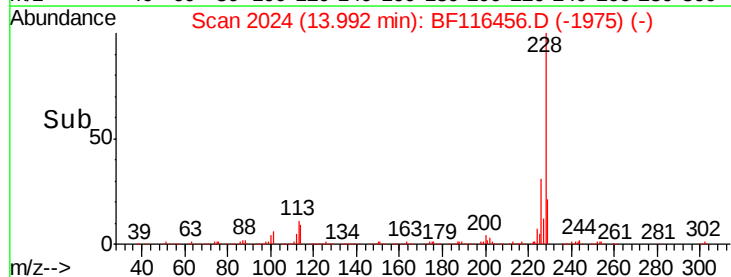
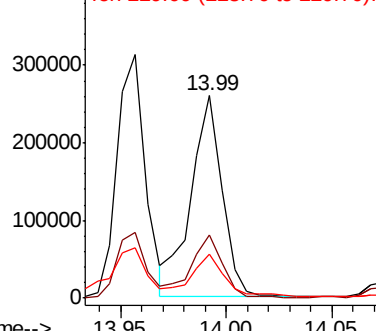


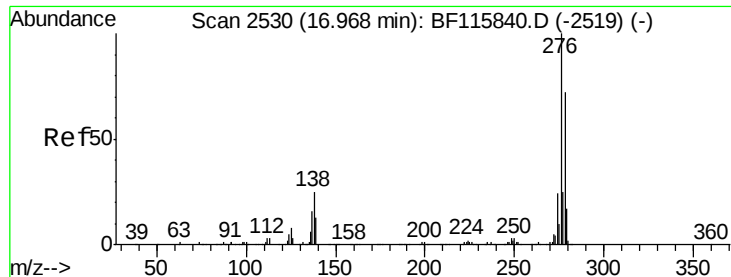
#83
Chrysene
Concen: 13.547 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Tgt Ion:228 Resp: 265254
Ion Ratio Lower Upper
228 100
226 31.0 25.5 38.3
229 21.7 16.6 24.8



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#86

Indeno(1,2,3-cd)pyrene

Concen: 7.889 ng

RT: 16.89 min Scan# 2517

Delta R.T. -0.01 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

Instrument :

BNA_F

ClientSampleId :

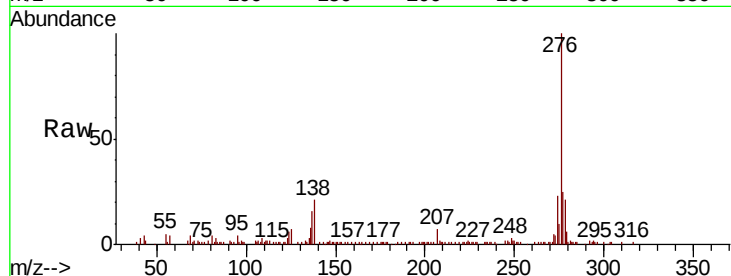
Tot Ion:276 Resp: 129739

Ion Ratio Lower Upper

276 100

138 22.8 20.4 30.6

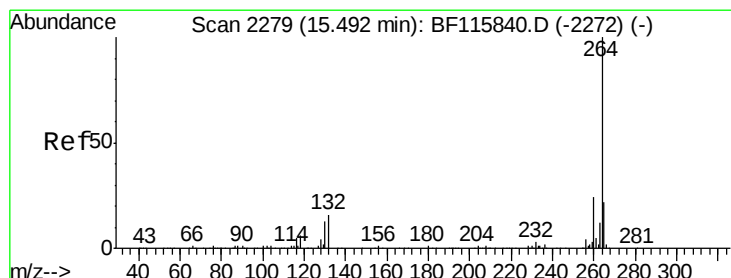
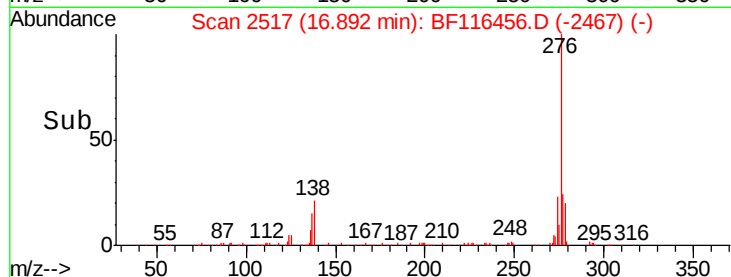
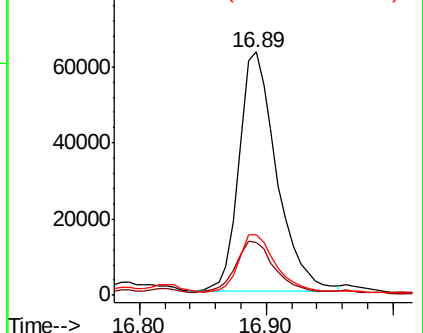
277 23.2 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.42 min Scan# 2267

Delta R.T. -0.02 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

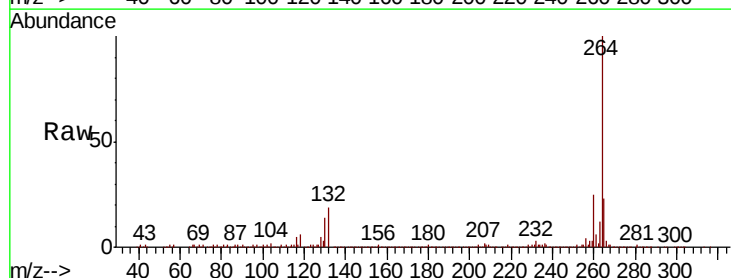
Tgt Ion:264 Resp: 338137

Ion Ratio Lower Upper

264 100

260 25.0 19.7 29.5

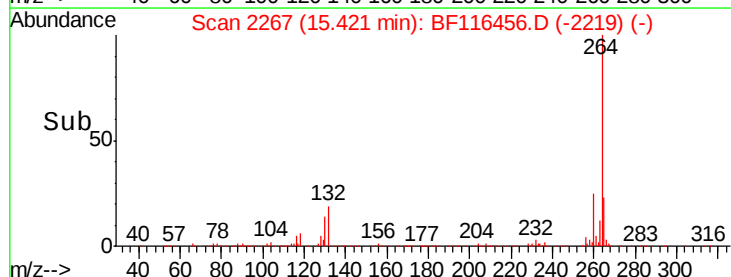
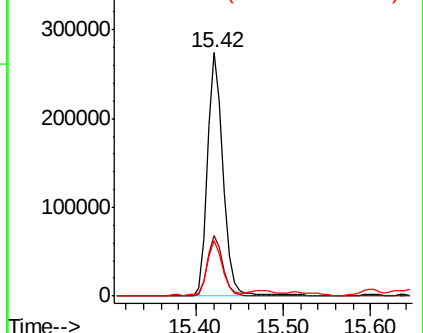
265 22.7 17.4 26.0

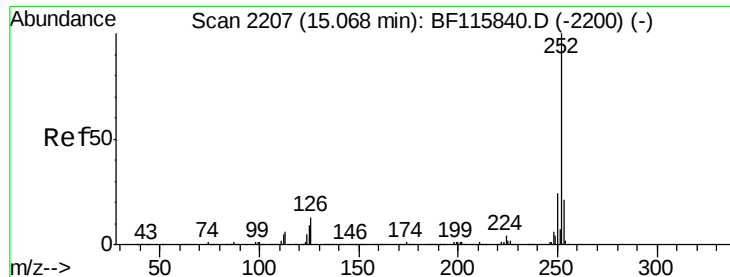


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

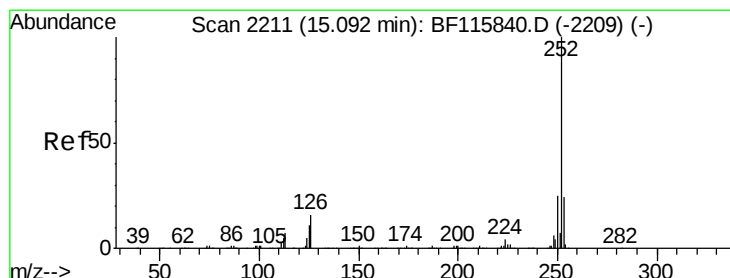
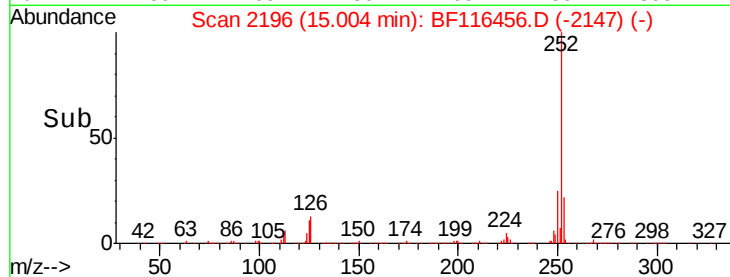
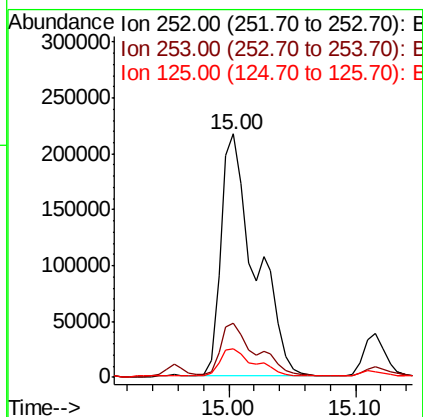
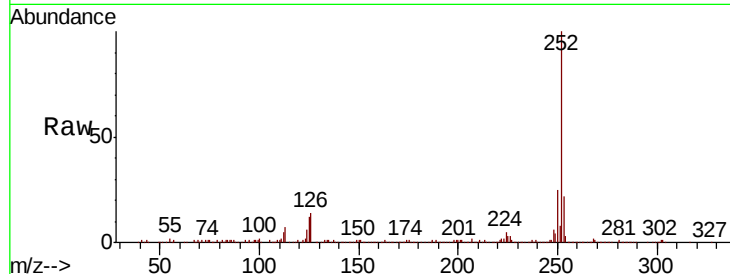




#88
Benzo(b)fluoranthene
Concen: 20.769 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

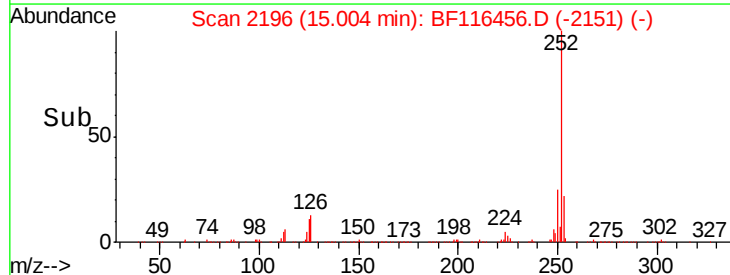
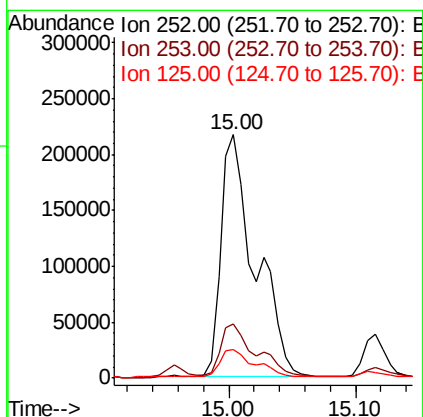
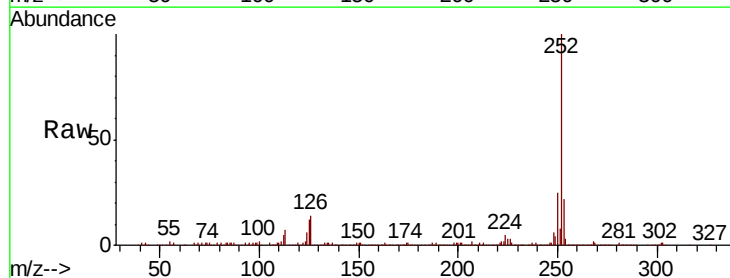
Instrument :
BNA_F
ClientSampleId :

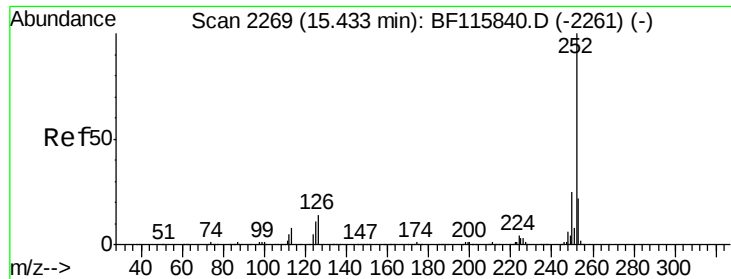
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.9	8.4	12.6



#89
Benzo(k)fluoranthene
Concen: 21.323 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.04 min
Lab File: BF116456.D
Acq: 21 Aug 2019 3:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.9	7.7	11.5#





#90

Benzo(a)pyrene

Concen: 12.959 ng

RT: 15.36 min Scan# 2257

Delta R.T. -0.02 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

Instrument :

BNA_F

ClientSampled :

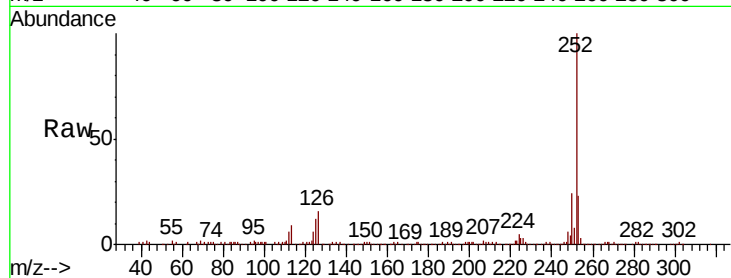
Tot Ion:252 Resp: 226487

Ion Ratio Lower Upper

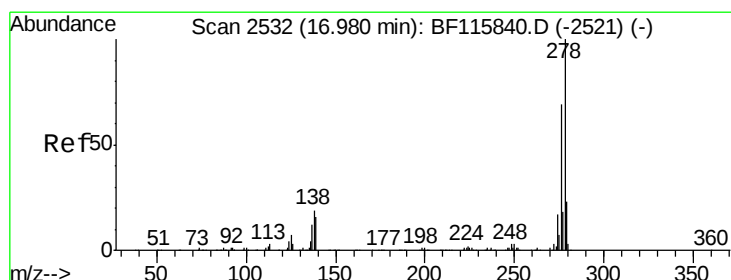
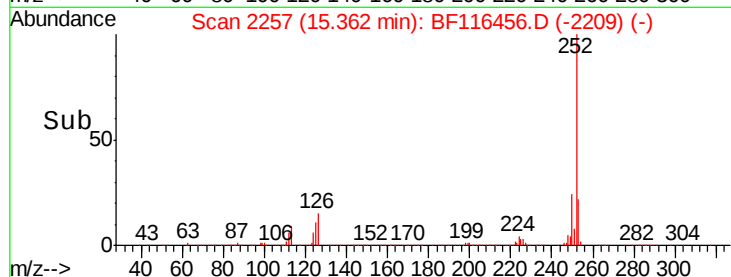
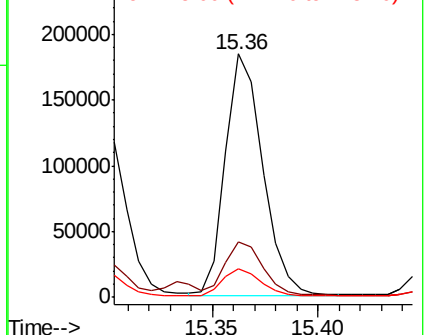
252 100

253 23.0 18.0 27.0

125 12.0 8.9 13.3



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 2.141 ng

RT: 17.06 min Scan# 2545

Delta R.T. 0.16 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

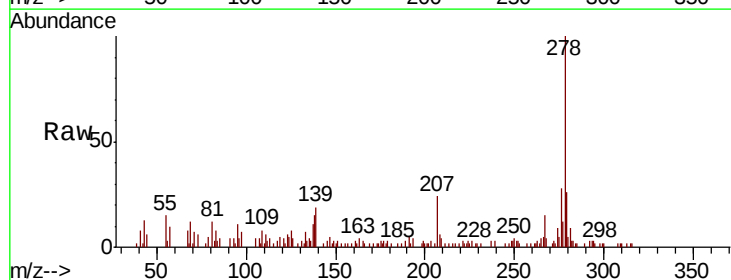
Tgt Ion:278 Resp: 32384

Ion Ratio Lower Upper

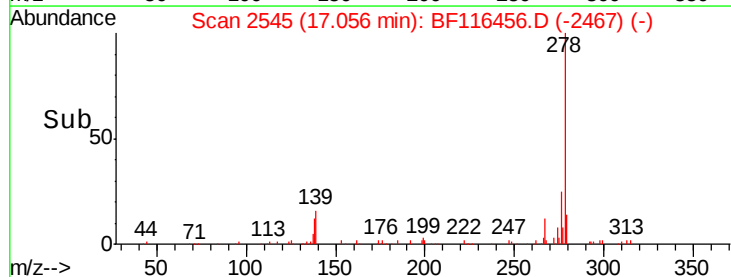
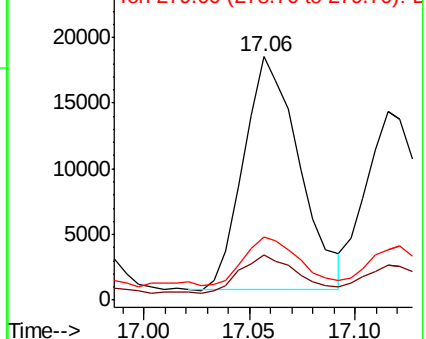
278 100

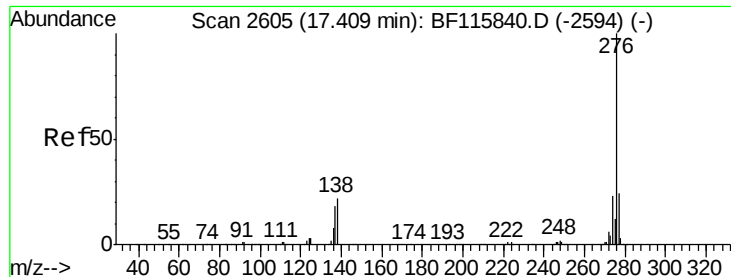
139 18.6 12.8 19.2

279 25.8 18.8 28.2



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 7.832 ng

RT: 17.33 min Scan# 2592

Delta R.T. -0.01 min

Lab File: BF116456.D

Acq: 21 Aug 2019 3:08

Instrument :

BNA_F

ClientSampleId :

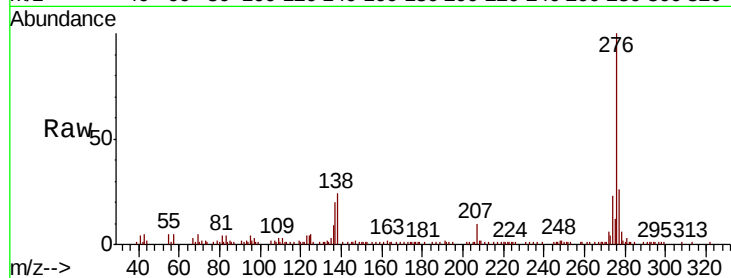
Tot Ion: 276 Resp: 116363

Ion Ratio Lower Upper

276 100

277 26.3 18.4 27.6

138 23.9 17.0 25.6



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

