

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032819\
 Data File : BF113397.D
 Acq On : 29 Mar 2019 3:42
 Operator : JU/SJ
 Sample : K2097-05DL 2X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-17DL

Quant Time: Mar 29 05:26:31 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF032519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 26 03:32:08 2019
 Response via : Initial Calibration

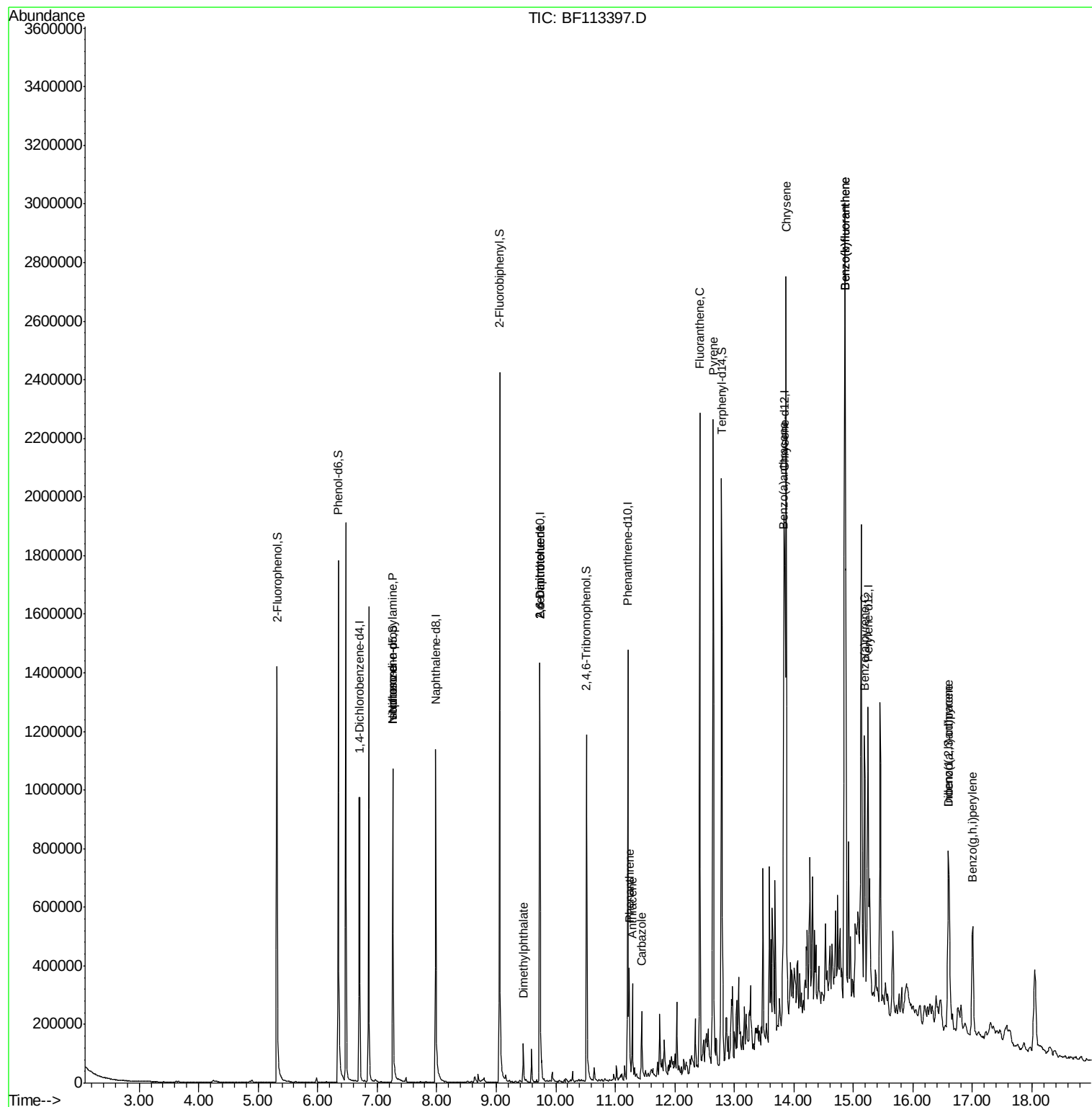
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	172171	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	653877	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	308264	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	543174	20.00	ng	0.00
76) Chrysene-d12	13.84	240	412182	20.00	ng	0.00
87) Perylene-d12	15.24	264	441010	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	505021	47.96	ng	0.00
7) Phenol-d6	6.35	99	671757	50.43	ng	-0.01
23) Nitrobenzene-d5	7.26	82	394788	35.84	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	182078	47.82	ng	-0.01
45) 2-Fluorobiphenyl	9.06	172	812501	29.87	ng	0.00
79) Terphenyl-d14	12.79	244	677406	36.22	ng	-0.01
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.26	70	48385	5.783	ng	# 77
25) Isophorone	7.26	82	381071	17.849	ng	# 64
50) Dimethylphthalate	9.45	163	64753	2.834	ng	100
51) 2,6-Dinitrotoluene	9.73	165	39280	7.622	ng	# 27
57) 2,4-Dinitrotoluene	9.73	165	39398	6.011	ng	# 23
71) Phenanthrene	11.23	178	134569	4.989	ng	97
72) Anthracene	11.29	178	142837	5.213	ng	98
73) Carbazole	11.45	167	110080	4.211	ng	98
75) Fluoranthene	12.42	202	1000855	32.822	ng	99
78) Pyrene	12.64	202	903547	31.634	ng	99
81) Benzo(a)anthracene	13.83	228	423714	17.959	ng	93
83) Chrysene	13.87	228	1125246	46.954	ng	98
86) Indeno(1,2,3-cd)pyrene	16.60	276	345120	16.780	ng	97
88) Benzo(b)fluoranthene	14.86	252	1995524	72.842	ng	97
89) Benzo(k)fluoranthene	14.86	252	1995524	82.946	ng	# 96
90) Benzo(a)pyrene	15.19	252	363586	14.970	ng	94
91) Dibenzo(a,h)anthracene	16.60	278	82194	3.914	ng	# 78
92) Benzo(g,h,i)perylene	17.00	276	299278	14.134	ng	99

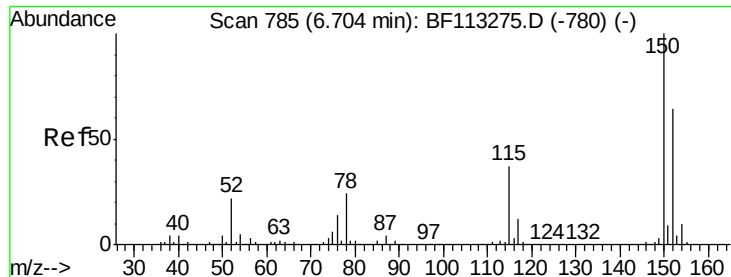
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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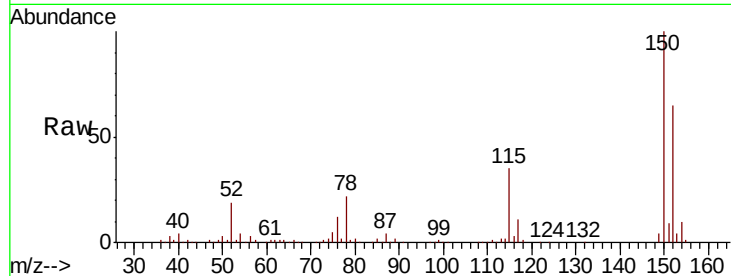


#1

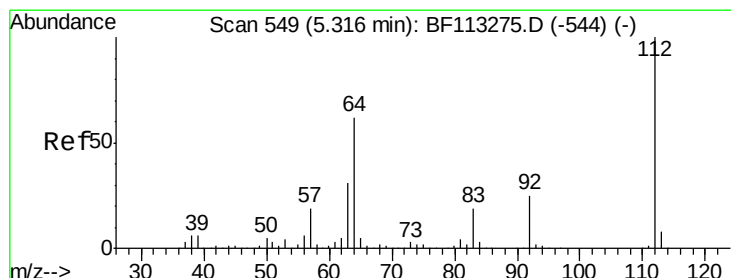
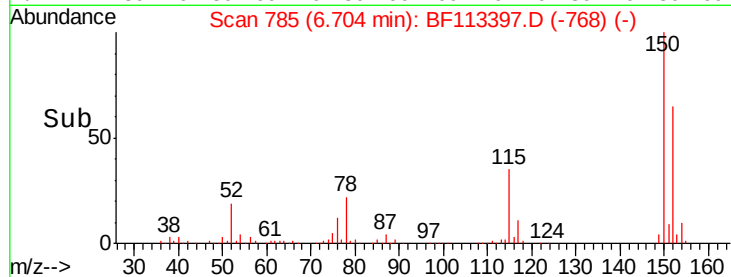
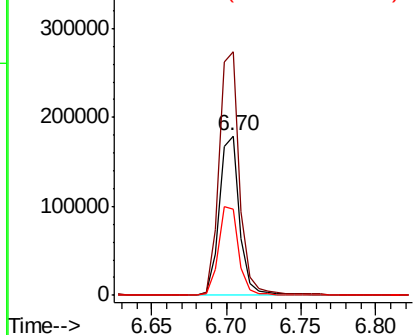
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.70 min Scan# 785
 Delta R.T. 0.00 min
 Lab File: BF113397.D
 Acq: 29 Mar 2019 3:42

Instrument :
 BNA_F
 ClientSampleId :
 CS-17DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.0	124.7	187.1
115	54.0	46.0	69.0



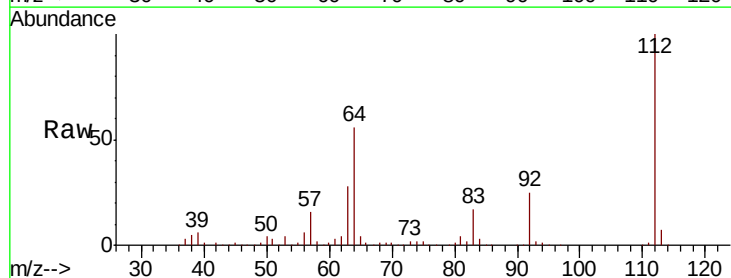
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



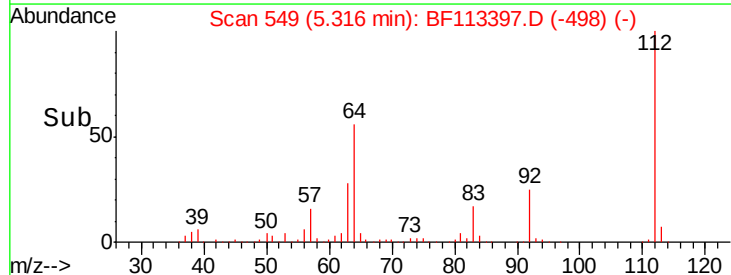
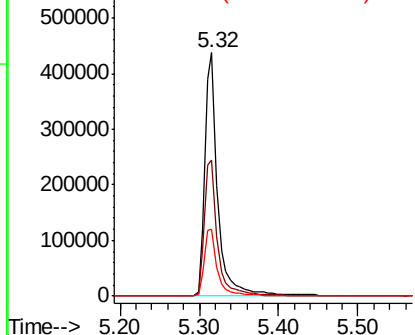
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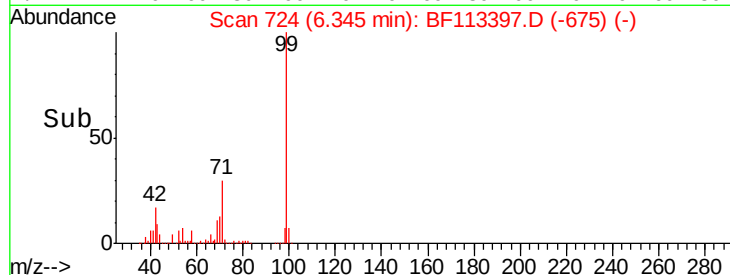
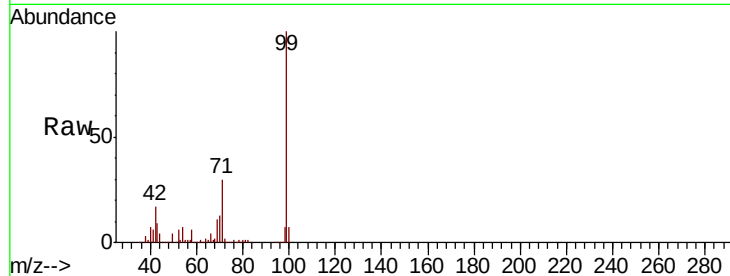
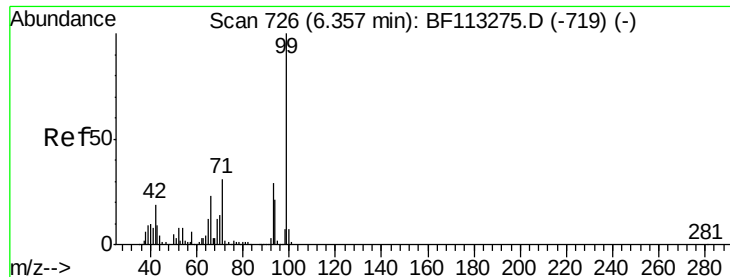
2-Fluorophenol
 Concen: 47.962 ng
 RT: 5.32 min Scan# 549
 Delta R.T. 0.00 min
 Lab File: BF113397.D
 Acq: 29 Mar 2019 3:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	49.2	73.8
63	27.7	24.9	37.3



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: 50.430 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

Instrument :

BNA_F

ClientSampleId :

CS-17DL

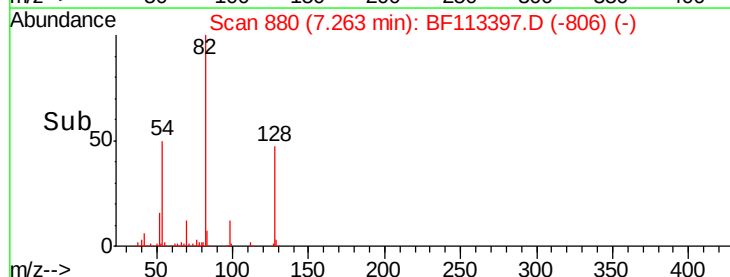
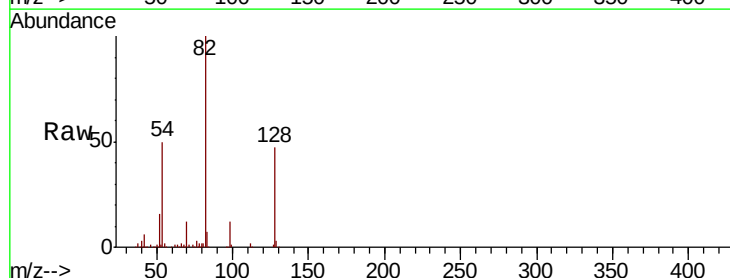
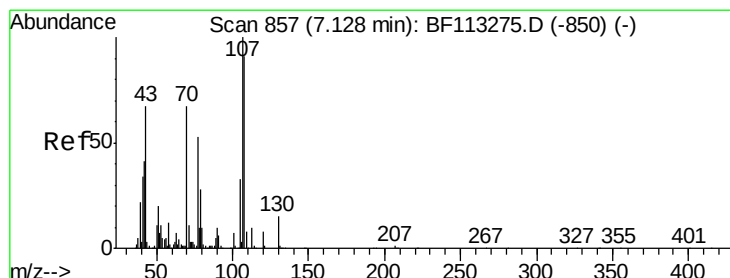
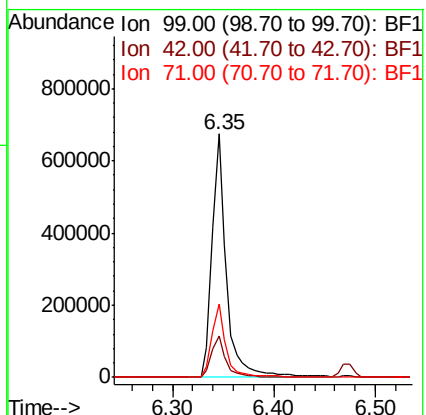
Tgt Ion: 99 Resp: 671757

Ion Ratio Lower Upper

99 100

42 16.9 14.8 22.2

71 29.9 24.9 37.3



#19

n-Nitroso-di-n-propylamine

Concen: 5.783 ng

RT: 7.26 min Scan# 880

Delta R.T. 0.14 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

Tgt Ion: 70 Resp: 48385

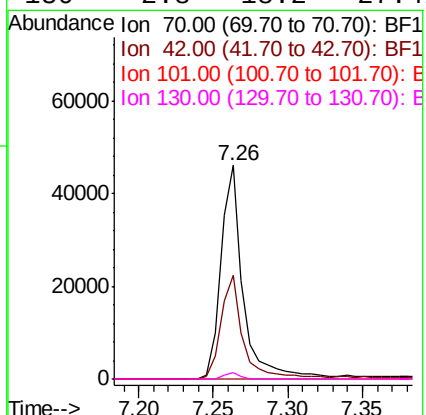
Ion Ratio Lower Upper

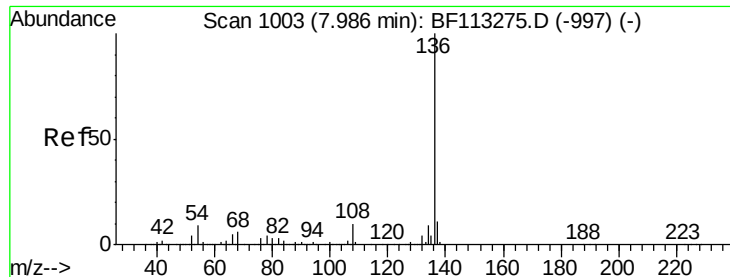
70 100

42 48.3 48.4 72.6#

101 0.0 7.8 11.8#

130 2.8 18.2 27.4#

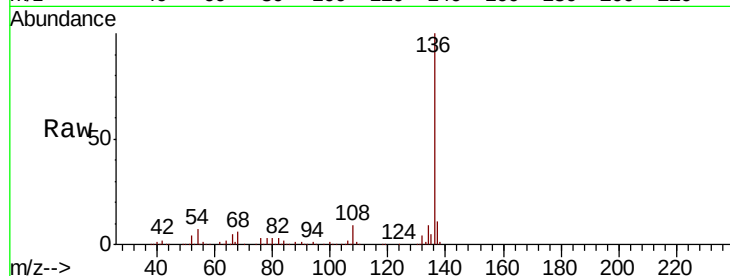




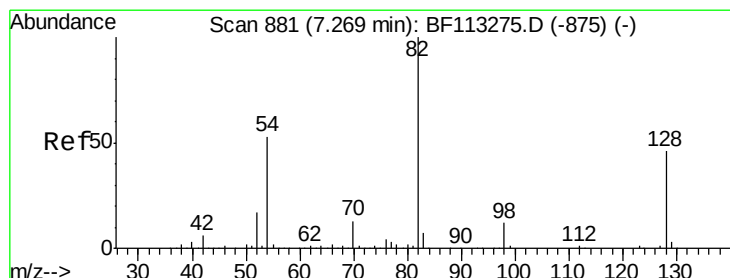
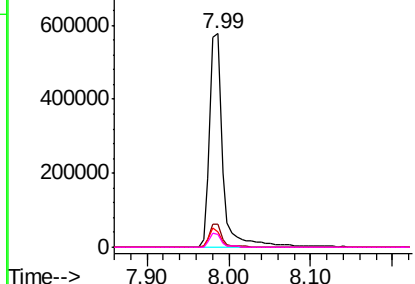
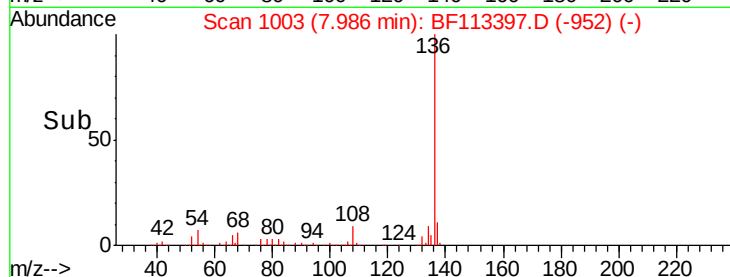
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.99 min Scan# 1003
Delta R.T. -0.00 min
Lab File: BF113397.D
Acq: 29 Mar 2019 3:42

Instrument :
BNA_F
ClientSampleId :
CS-17DL

Tgt Ion:	136	Resp:	653877
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.2	7.0	10.6
68	5.8	4.8	7.2

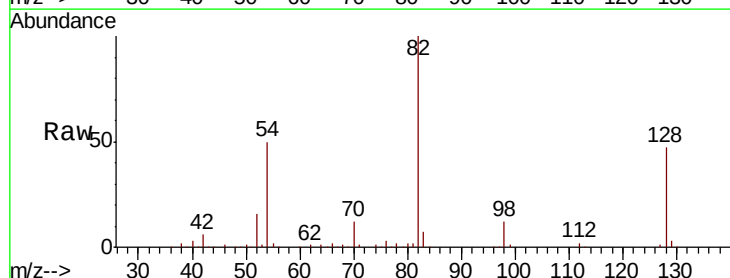


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

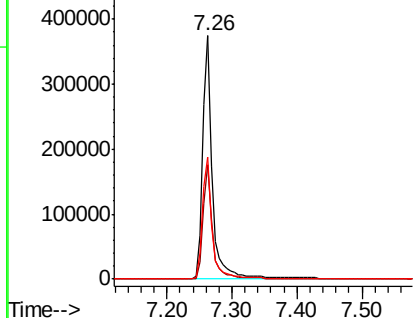
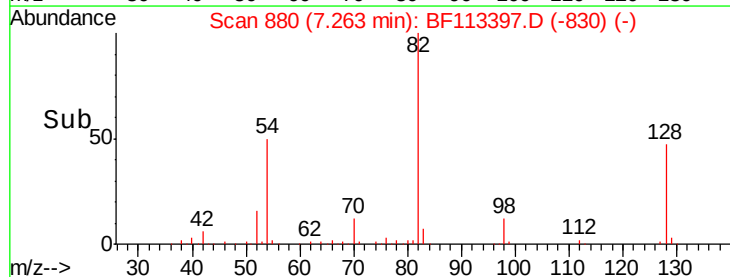


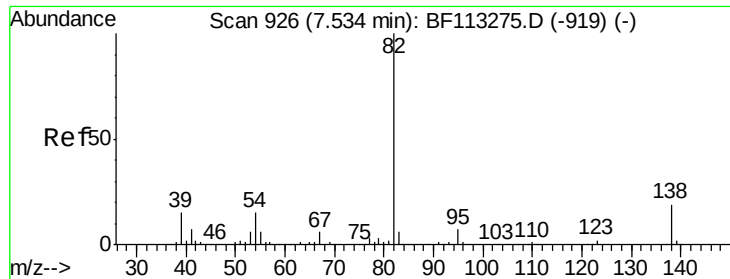
#23
Nitrobenzene-d5
Concen: 35.836 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.01 min
Lab File: BF113397.D
Acq: 29 Mar 2019 3:42

Tgt Ion:	82	Resp:	394788
Ion	Ratio	Lower	Upper
82	100		
128	47.2	36.5	54.7
54	50.1	42.2	63.2



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

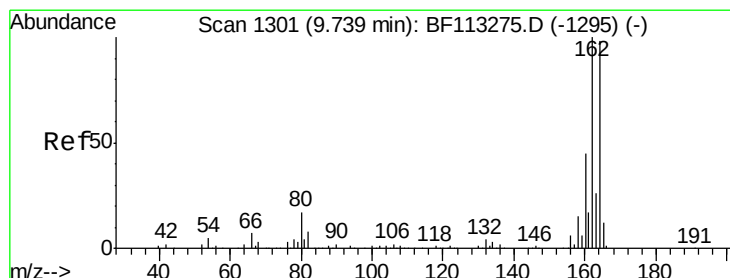
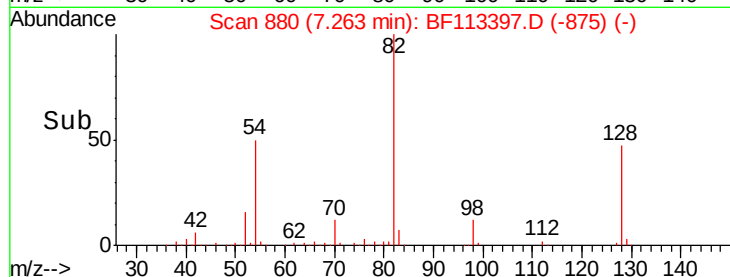
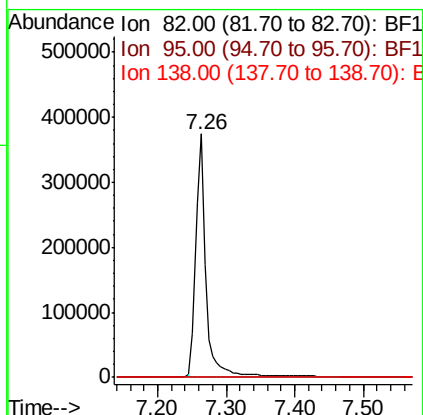
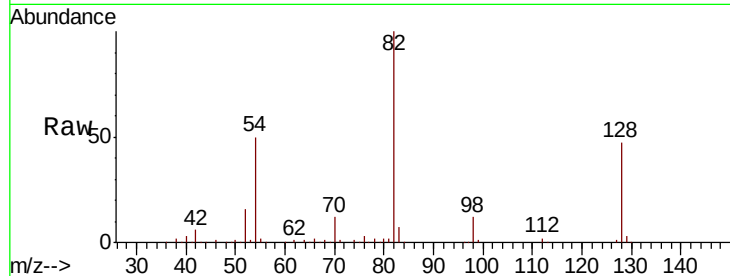




#25
Isophorone
Concen: 17.849 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.27 min
Lab File: BF113397.D
Acq: 29 Mar 2019 3:42

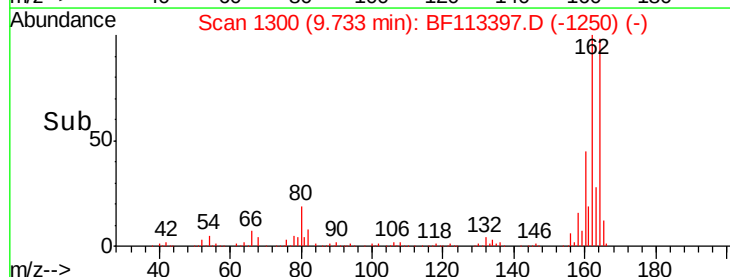
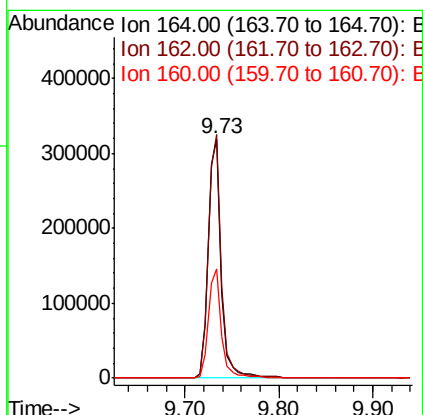
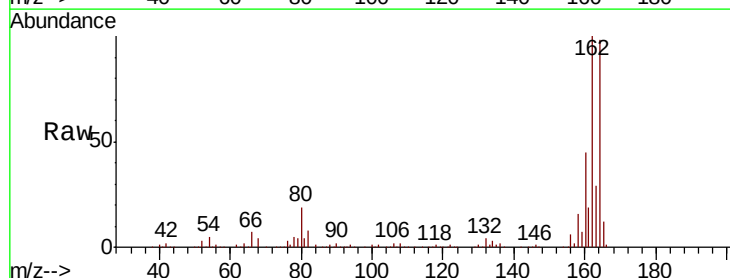
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ClientSampled :
CS-17DL

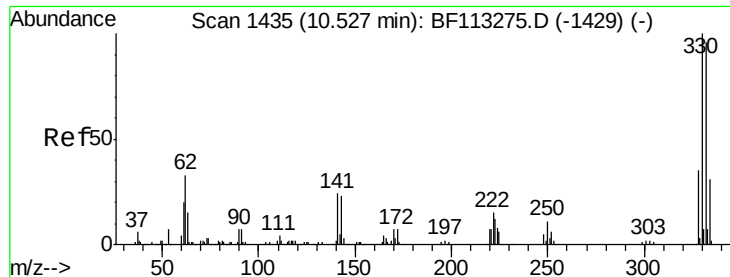
Tgt Ion: 82 Resp: 381071
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 15.2 22.8#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF113397.D
Acq: 29 Mar 2019 3:42

Tgt Ion: 164 Resp: 308264
Ion Ratio Lower Upper
164 100
162 102.0 81.8 122.6
160 45.9 36.4 54.6

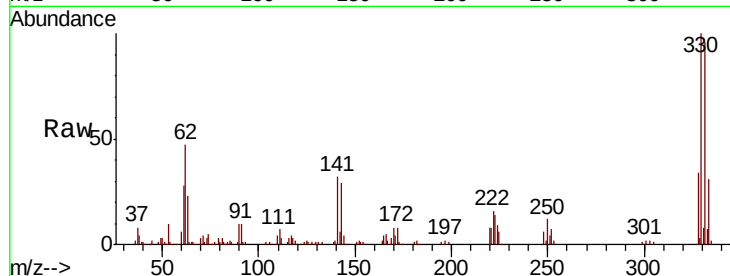




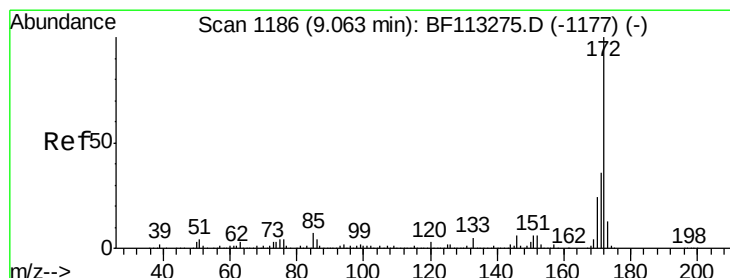
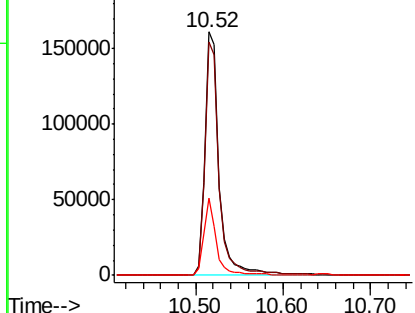
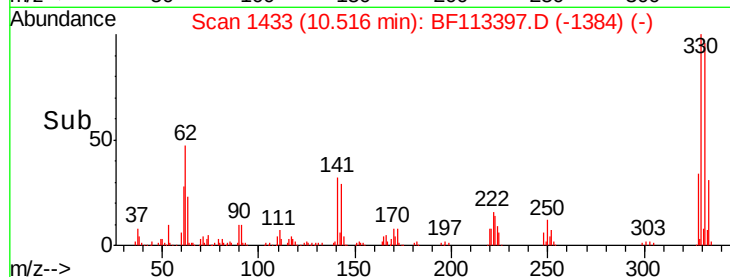
#42
 2,4,6-Tribromophenol
 Concen: 47.818 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: BF113397.D
 Acq: 29 Mar 2019 3:42

Instrument :
 BNA_F
 ClientSampleId :
 CS-17DL

Tgt Ion:330 Resp: 182078
 Ion Ratio Lower Upper
 330 100
 332 96.2 77.8 116.6
 141 28.3 22.7 34.1

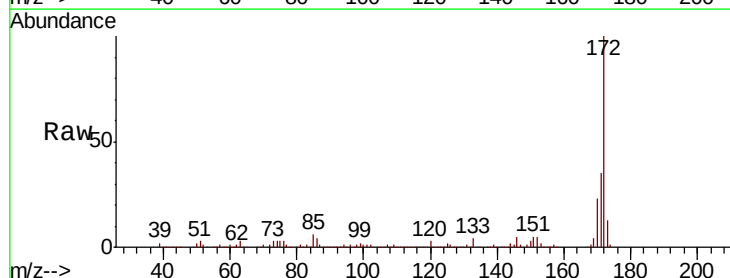


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

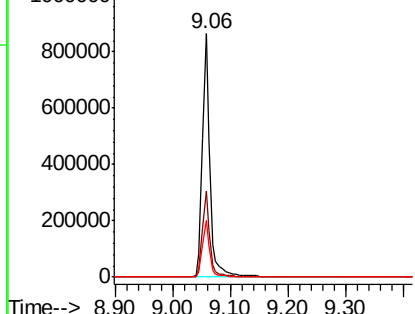
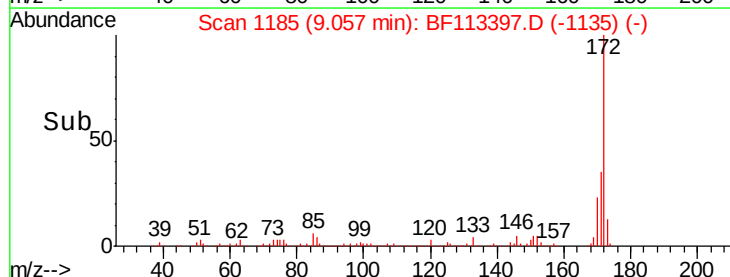


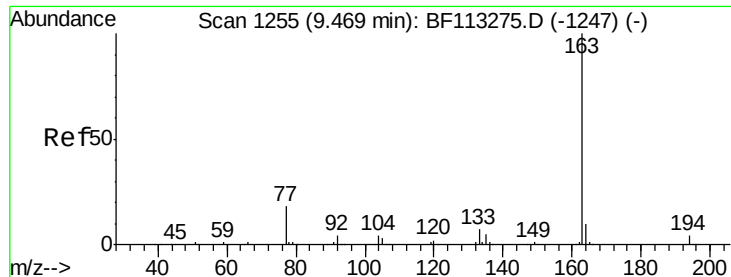
#45
 2-Fluorobiphenyl
 Concen: 29.873 ng
 RT: 9.06 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: BF113397.D
 Acq: 29 Mar 2019 3:42

Tgt Ion:172 Resp: 812501
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.0 43.6
 170 23.5 19.5 29.3



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

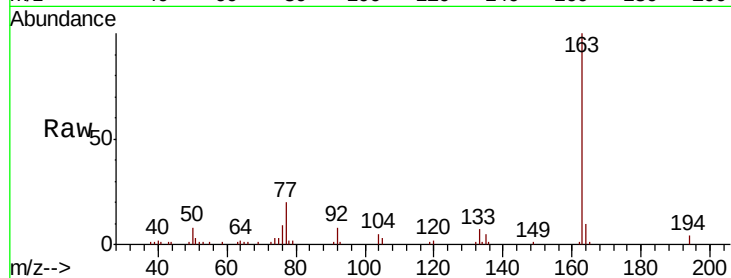




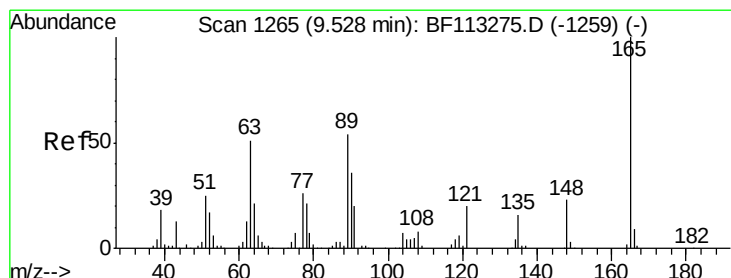
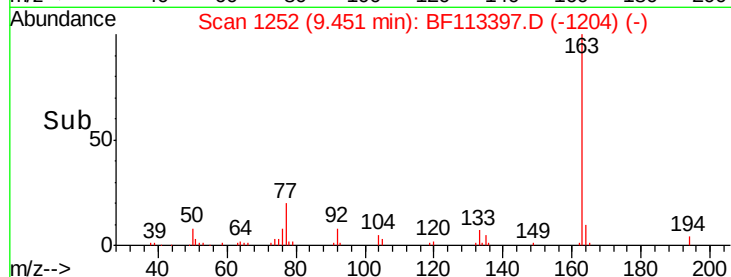
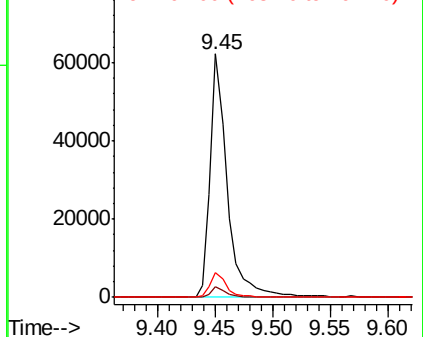
#50
Dimethylphthalate
Concen: 2.834 ng
RT: 9.45 min Scan# 1252
Delta R.T. -0.02 min
Lab File: BF113397.D
Acq: 29 Mar 2019 3:42

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CS-17DL

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.0	4.6
164	10.0	8.1	12.1

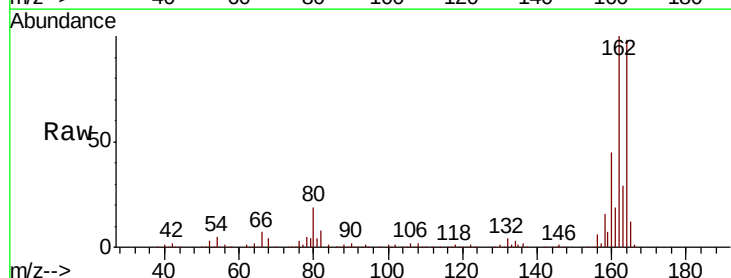


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

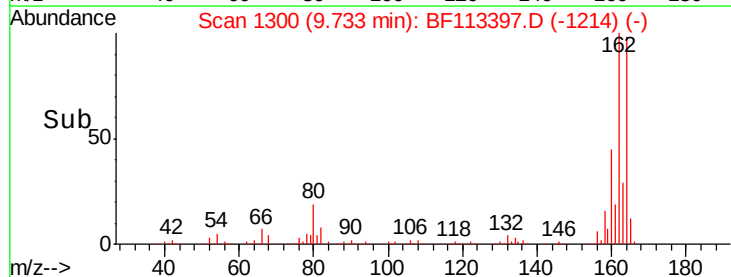
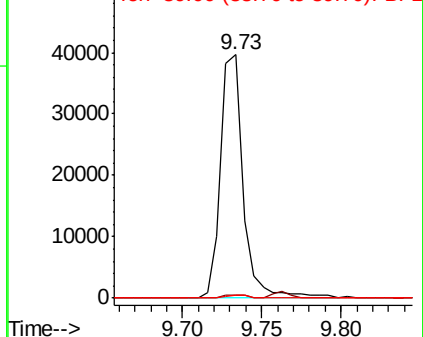


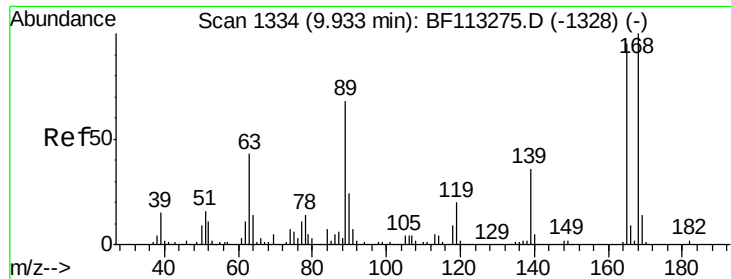
#51
2,6-Dinitrotoluene
Concen: 7.622 ng
RT: 9.73 min Scan# 1300
Delta R.T. 0.21 min
Lab File: BF113397.D
Acq: 29 Mar 2019 3:42

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	43.4	65.0#
89	1.4	43.1	64.7#



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

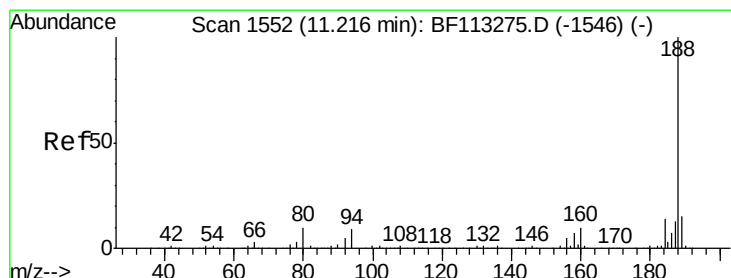
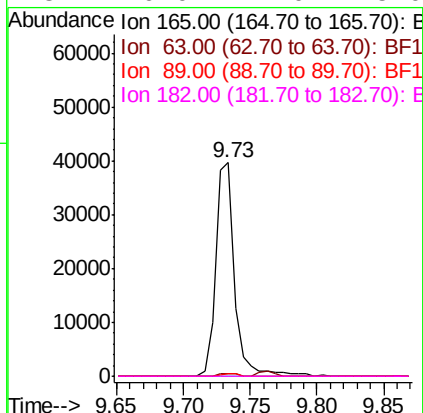
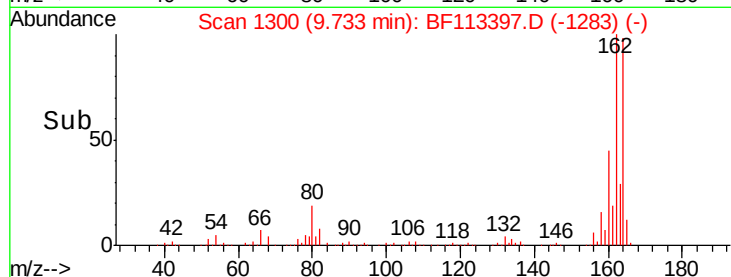
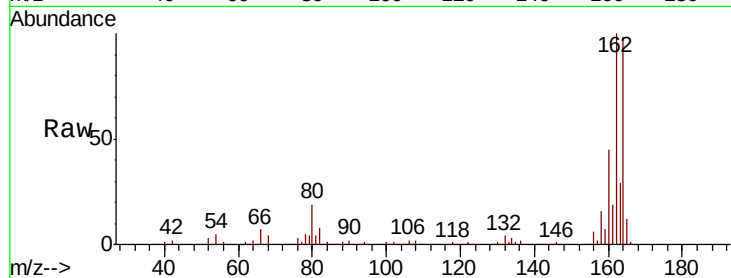




#57
 2,4-Dinitrotoluene
 Concen: 6.011 ng
 RT: 9.73 min Scan# 1300
 Delta R.T. -0.20 min
 Lab File: BF113397.D
 Acq: 29 Mar 2019 3:42

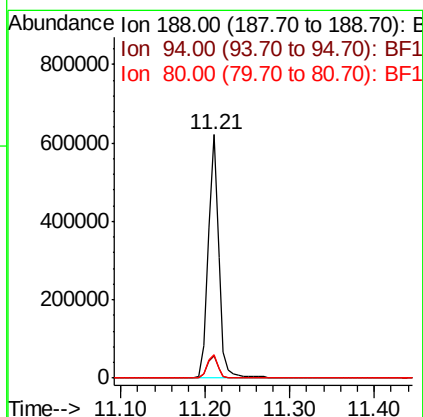
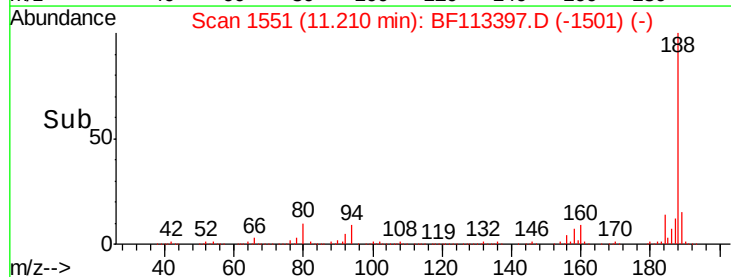
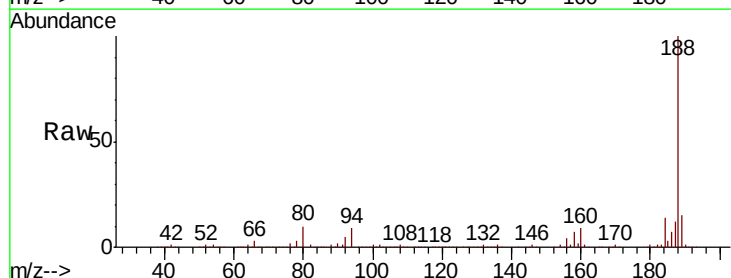
Instrument :
 BNA_F
 ClientSampleId :
 CS-17DL

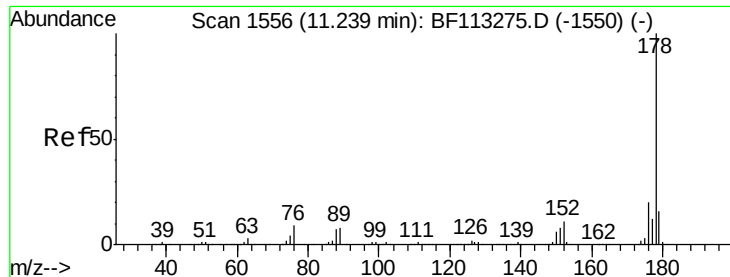
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	37.5	56.3#
89	1.4	57.4	86.2#
182	0.0	2.0	3.0#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.21 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: BF113397.D
 Acq: 29 Mar 2019 3:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.0	10.6
80	9.7	7.7	11.5





#71

Phenanthrene

Concen: 4.989 ng

RT: 11.23 min Scan# 1555

Delta R.T. -0.01 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

Instrument :

BNA_F

ClientSampleId :

CS-17DL

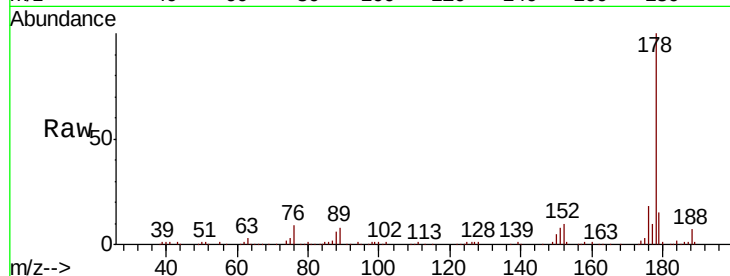
Tgt Ion:178 Resp: 134569

Ion Ratio Lower Upper

178 100

176 18.3 16.2 24.2

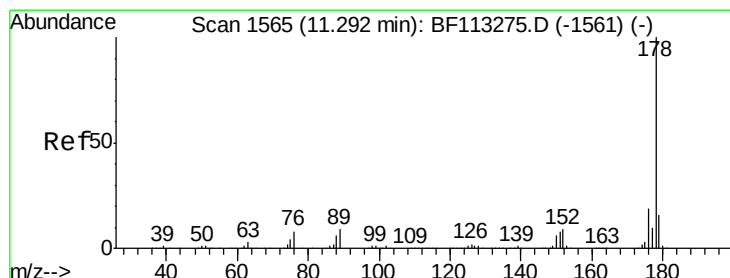
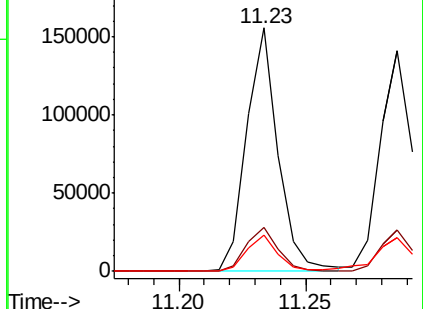
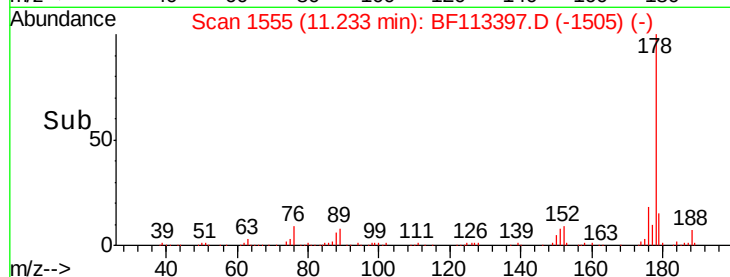
179 15.1 12.7 19.1



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



#72

Anthracene

Concen: 5.213 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

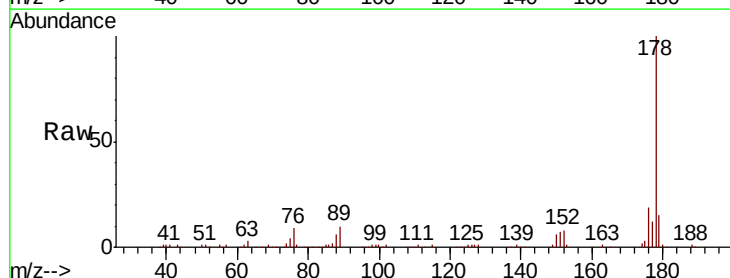
Tgt Ion:178 Resp: 142837

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

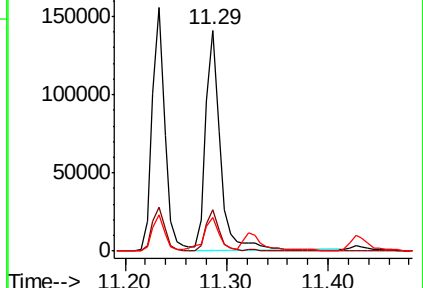
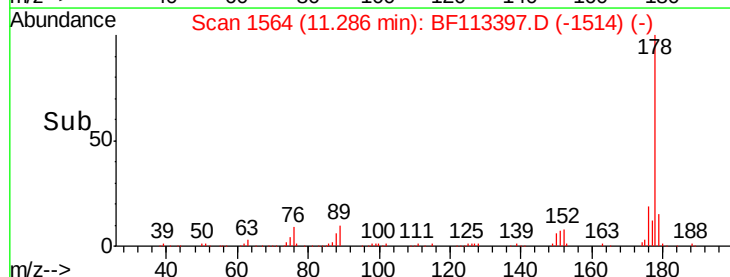
179 15.1 12.8 19.2

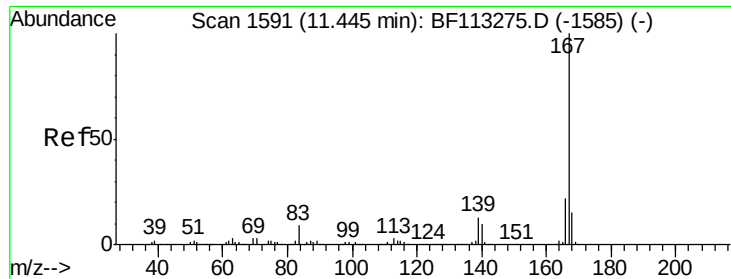


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

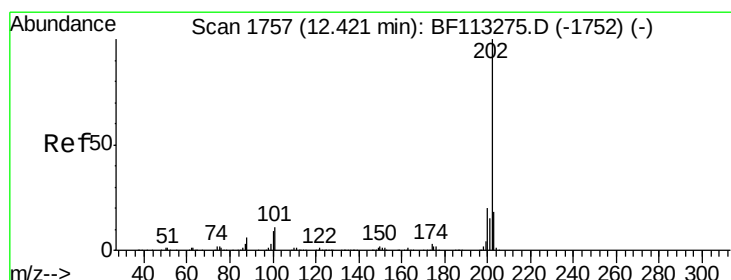
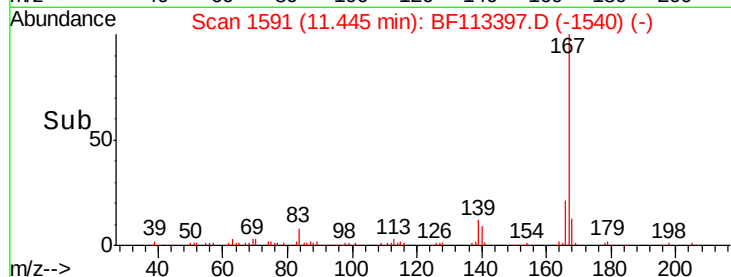
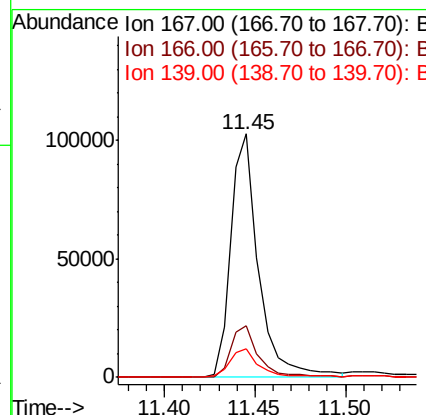
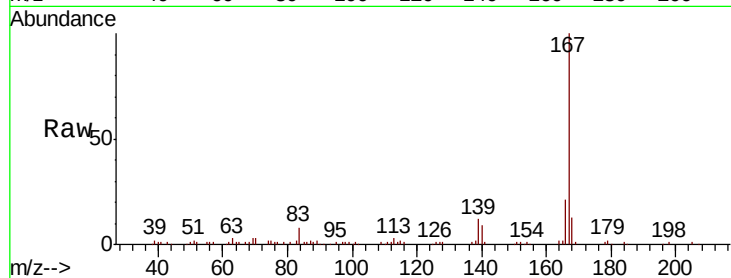




#73
 Carbazole
 Concen: 4.211 ng
 RT: 11.45 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BF113397.D
 Acq: 29 Mar 2019 3:42

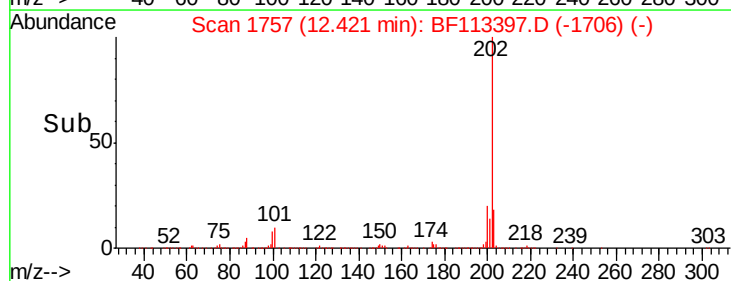
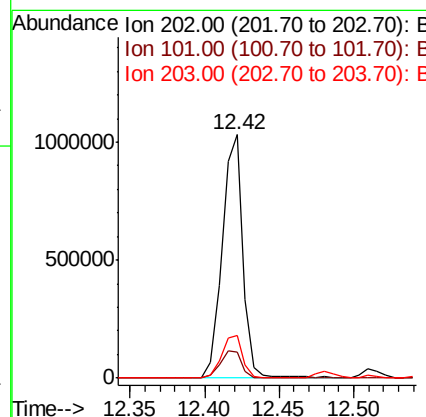
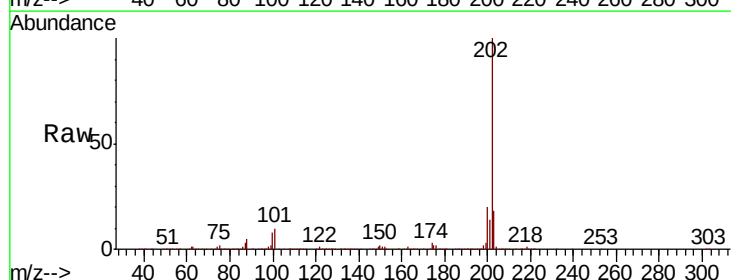
Instrument :
 BNA_F
 ClientSampleId :
 CS-17DL

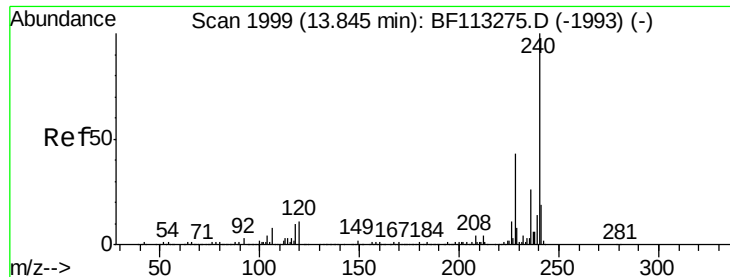
Tgt Ion:167 Resp: 110080
 Ion Ratio Lower Upper
 167 100
 166 21.0 17.4 26.0
 139 11.7 10.4 15.6



#75
 Fluoranthene
 Concen: 32.822 ng
 RT: 12.42 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: BF113397.D
 Acq: 29 Mar 2019 3:42

Tgt Ion:202 Resp: 1000855
 Ion Ratio Lower Upper
 202 100
 101 10.5 0.0 31.4
 203 17.7 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

Instrument :

BNA_F

ClientSampleID :

CS-17DL

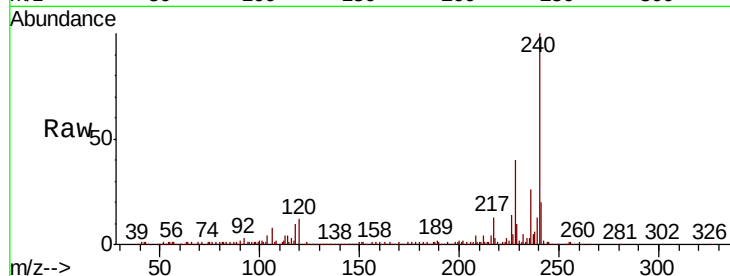
Tgt Ion:240 Resp: 412182

Ion Ratio Lower Upper

240 100

120 11.7 8.8 13.2

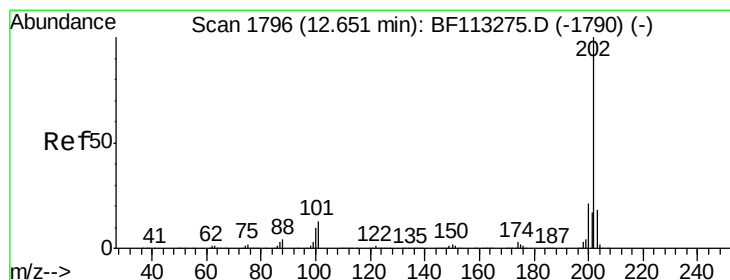
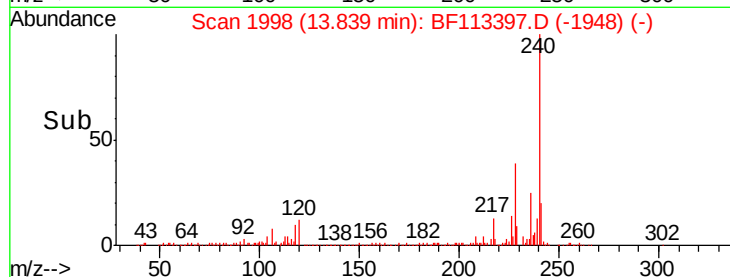
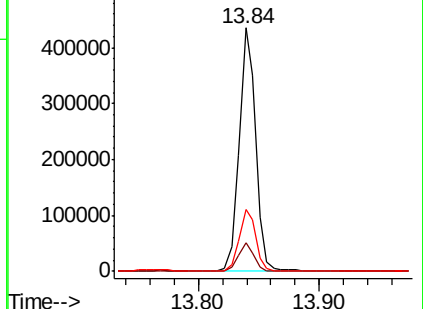
236 25.6 20.9 31.3



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

Pyrene

Concen: 31.634 ng

RT: 12.64 min Scan# 1795

Delta R.T. -0.01 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

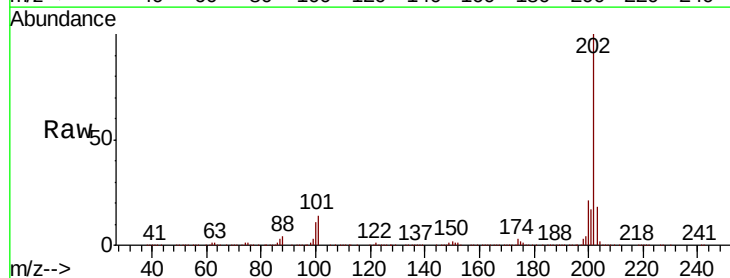
Tgt Ion:202 Resp: 903547

Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

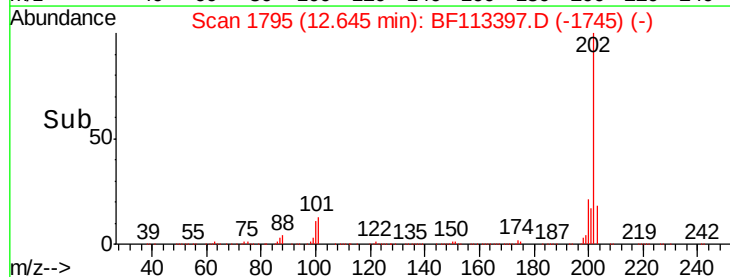
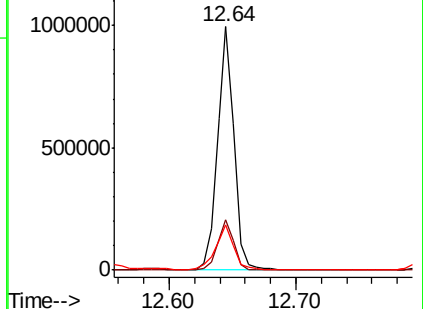
203 18.4 14.4 21.6

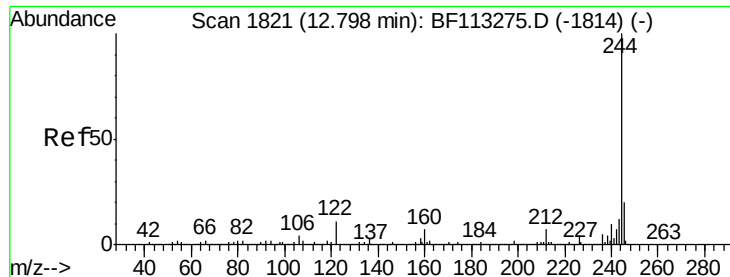


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 36.225 ng

RT: 12.79 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

Instrument :

BNA_F

ClientSampleId :

CS-17DL

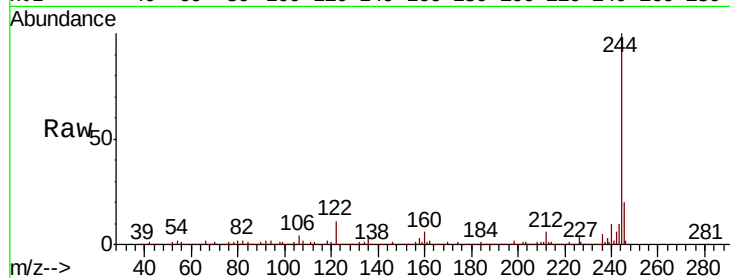
Tgt Ion:244 Resp: 677406

Ion Ratio Lower Upper

244 100

212 6.4 5.5 8.3

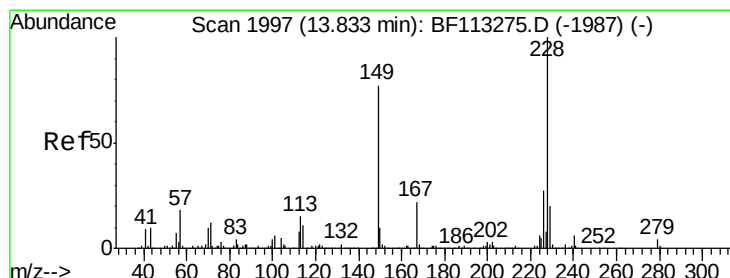
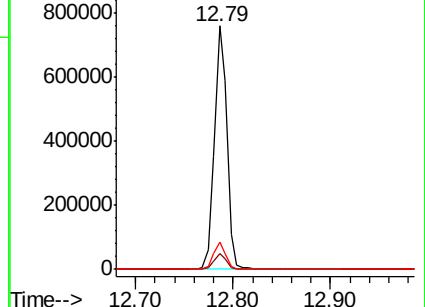
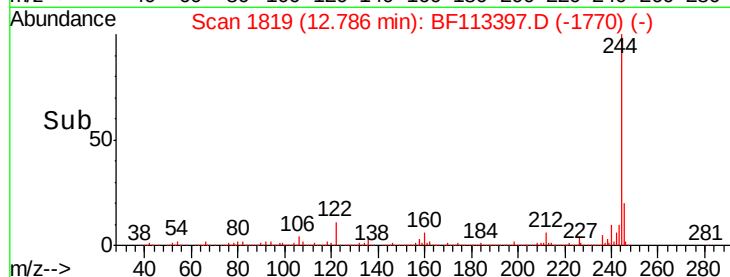
122 11.2 8.6 13.0



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



#81

Benzo(a)anthracene

Concen: 17.959 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

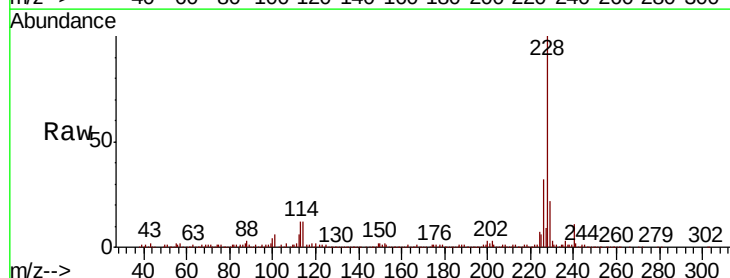
Tgt Ion:228 Resp: 423714

Ion Ratio Lower Upper

228 100

226 31.6 21.8 32.8

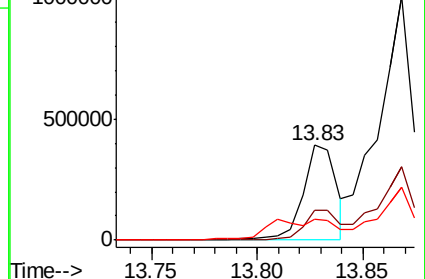
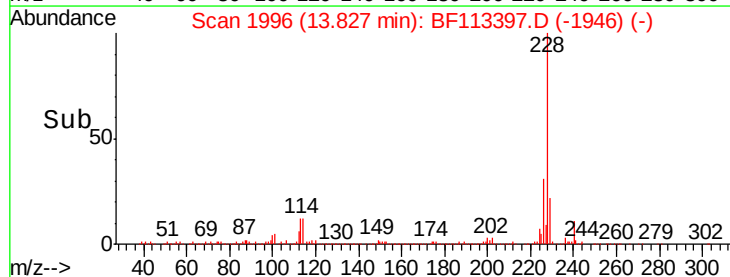
229 22.2 16.2 24.4

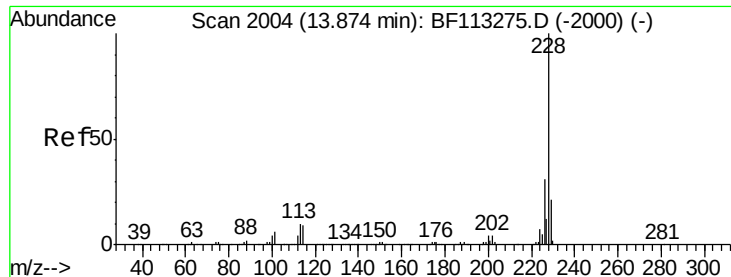


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 46.954 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

Instrument :

BNA_F

ClientSampleId :

CS-17DL

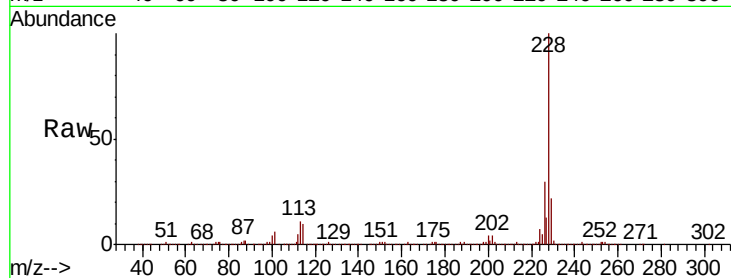
Tgt Ion:228 Resp: 1125246

Ion Ratio Lower Upper

228 100

226 30.0 24.3 36.5

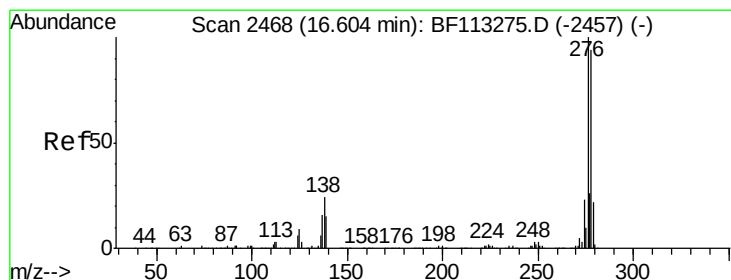
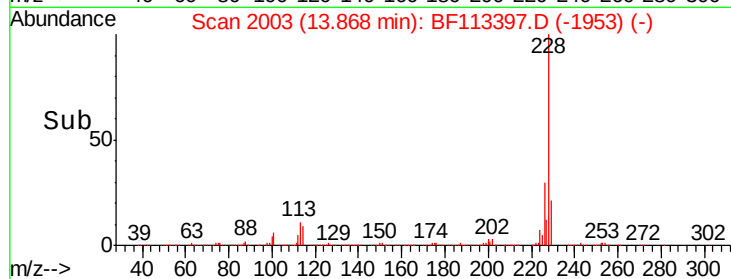
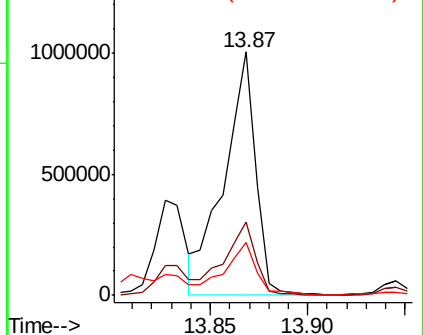
229 21.7 16.3 24.5



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: 16.780 ng

RT: 16.60 min Scan# 2467

Delta R.T. -0.01 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

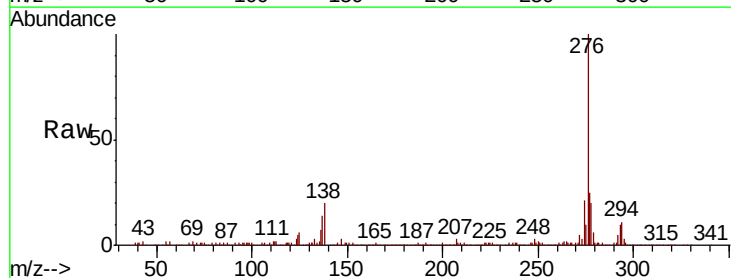
Tgt Ion:276 Resp: 345120

Ion Ratio Lower Upper

276 100

138 20.6 18.1 27.1

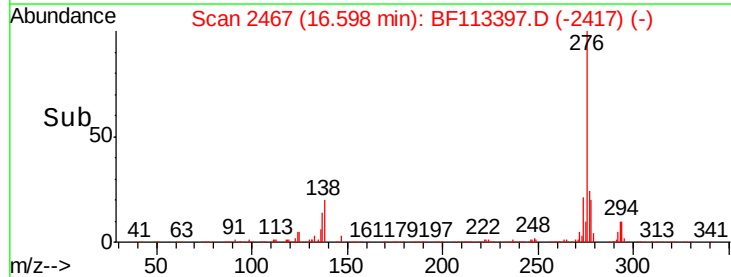
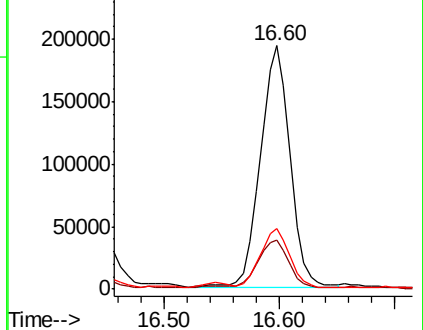
277 23.9 20.2 30.4

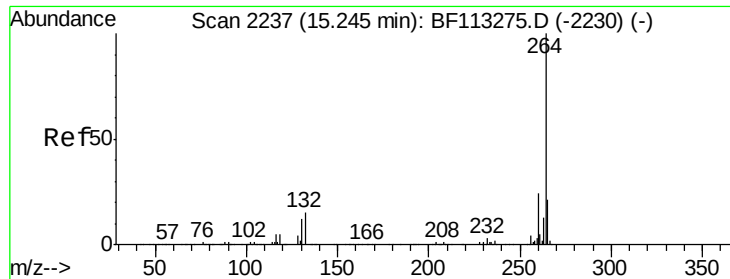


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

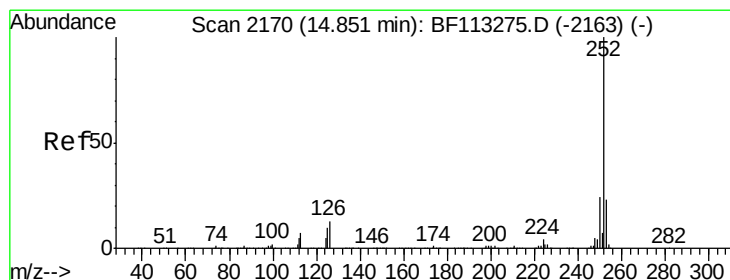
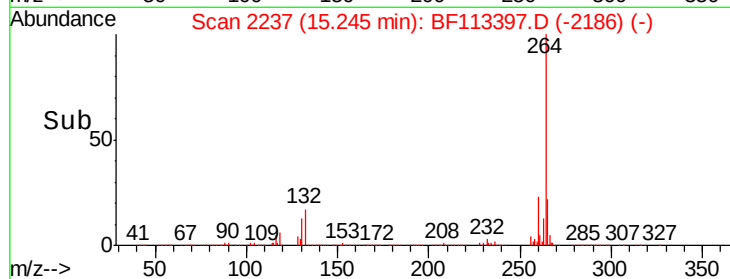
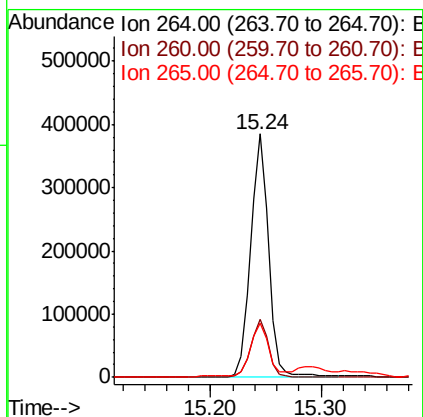
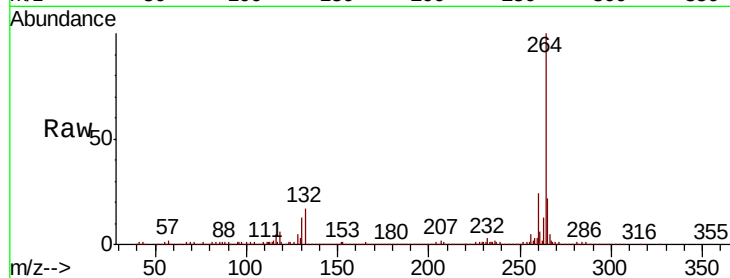




#87
Perylene-d12
Concen: 20.000 ng
RT: 15.24 min Scan# 2237
Delta R.T. 0.00 min
Lab File: BF113397.D
Acq: 29 Mar 2019 3:42

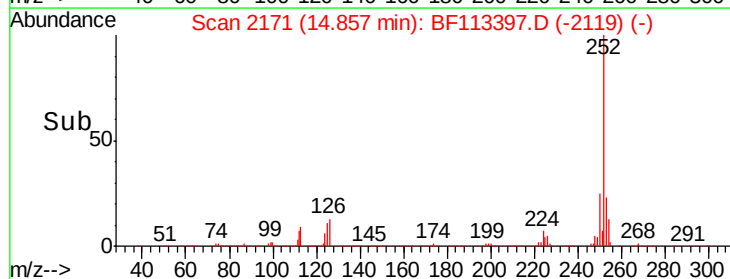
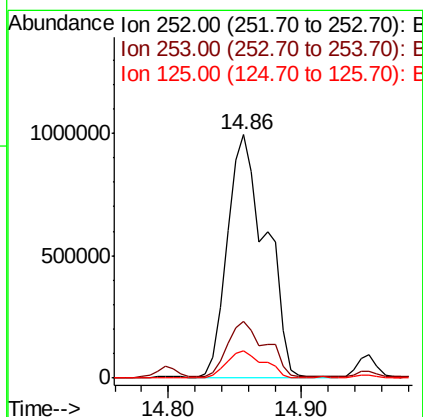
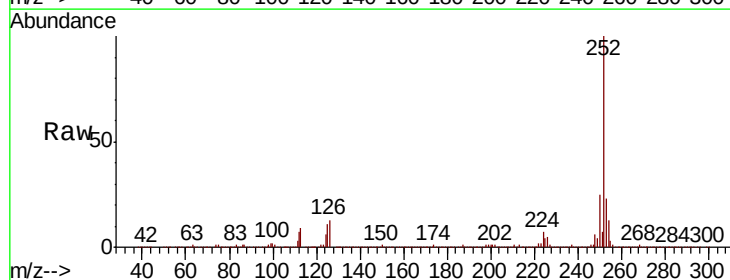
Instrument :
BNA_F
ClientSampleId :
CS-17DL

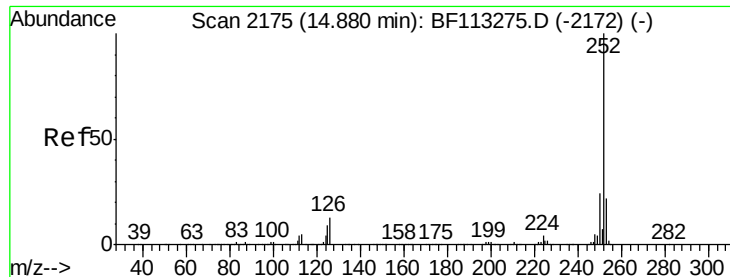
Tgt Ion:264 Resp: 441010
Ion Ratio Lower Upper
264 100
260 23.7 19.1 28.7
265 22.5 17.1 25.7



#88
Benzo(b)fluoranthene
Concen: 72.842 ng
RT: 14.86 min Scan# 2171
Delta R.T. 0.01 min
Lab File: BF113397.D
Acq: 29 Mar 2019 3:42

Tgt Ion:252 Resp: 1995524
Ion Ratio Lower Upper
252 100
253 23.4 18.0 27.0
125 11.4 7.6 11.4

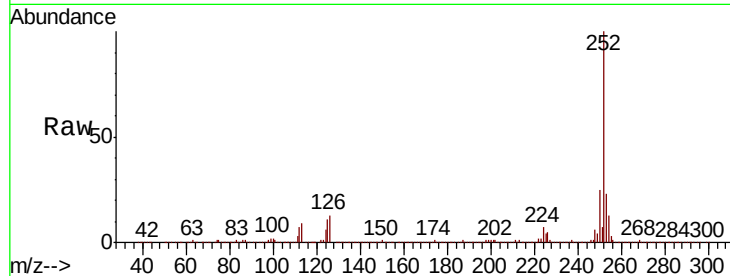




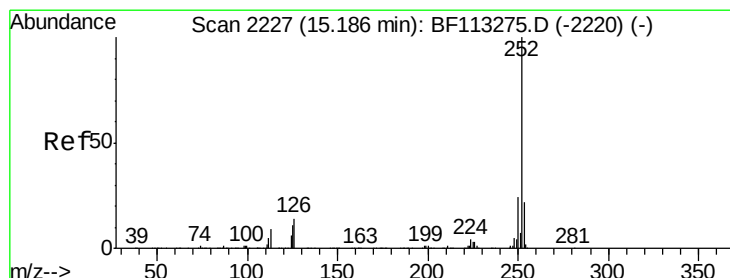
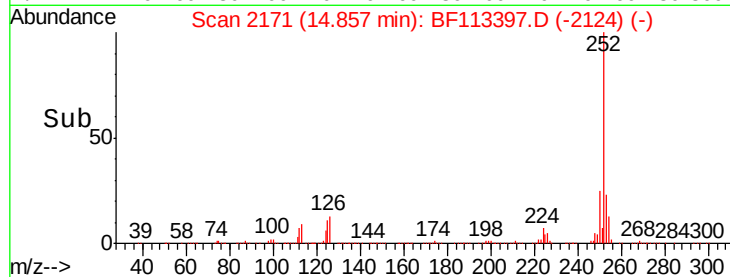
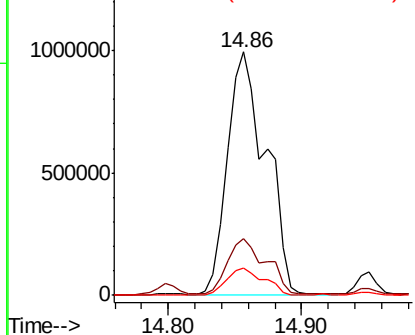
#89
Benzo(k)fluoranthene
Concen: 82.946 ng
RT: 14.86 min Scan# 2171
Delta R.T. -0.02 min
Lab File: BF113397.D
Acq: 29 Mar 2019 3:42

Instrument :
BNA_F
ClientSampleId :
CS-17DL

Tgt Ion:252 Resp: 1995524
Ion Ratio Lower Upper
252 100
253 23.4 17.7 26.5
125 11.4 7.3 10.9#

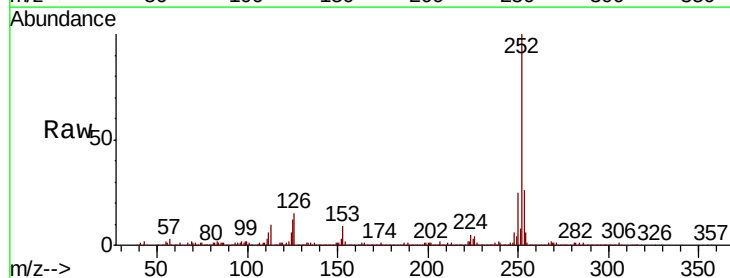


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

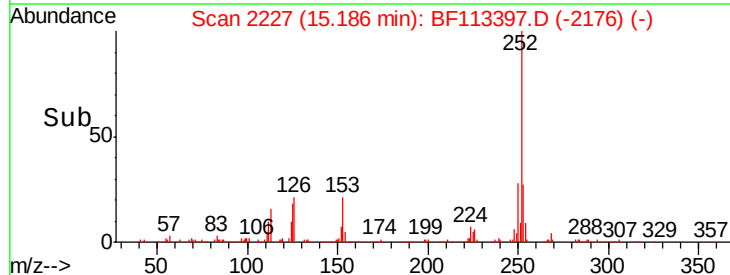
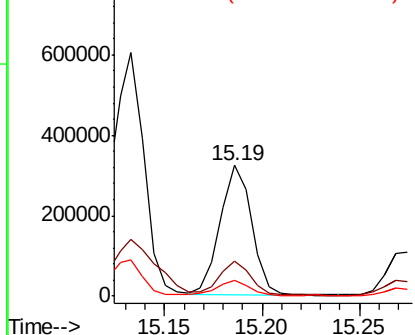


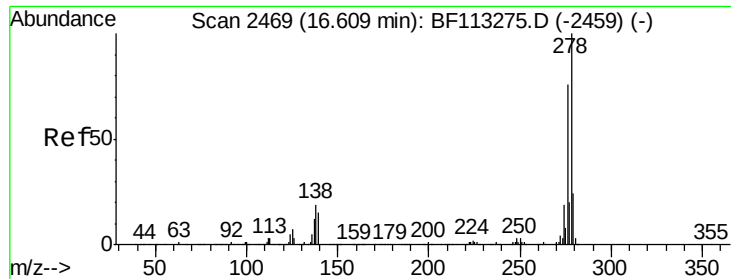
#90
Benzo(a)pyrene
Concen: 14.970 ng
RT: 15.19 min Scan# 2227
Delta R.T. -0.00 min
Lab File: BF113397.D
Acq: 29 Mar 2019 3:42

Tgt Ion:252 Resp: 363586
Ion Ratio Lower Upper
252 100
253 26.3 17.9 26.9
125 11.8 8.8 13.2



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: 3.914 ng

RT: 16.60 min Scan# 2467

Delta R.T. -0.01 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

Instrument :

BNA_F

ClientSampled :

CS-17DL

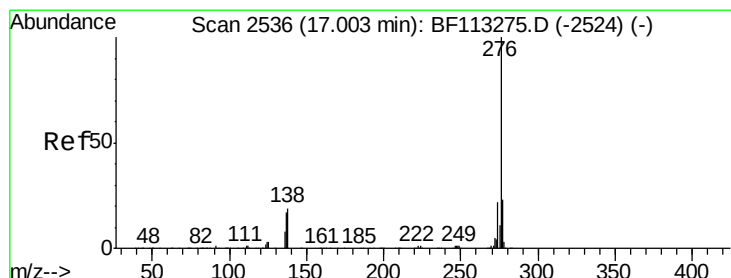
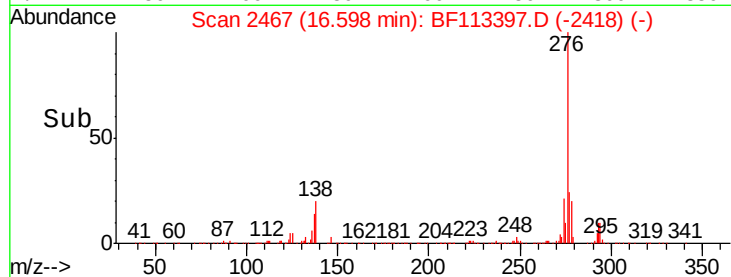
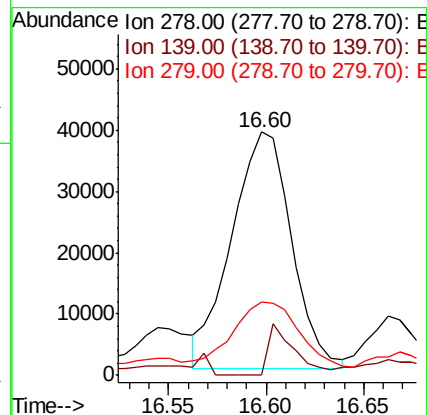
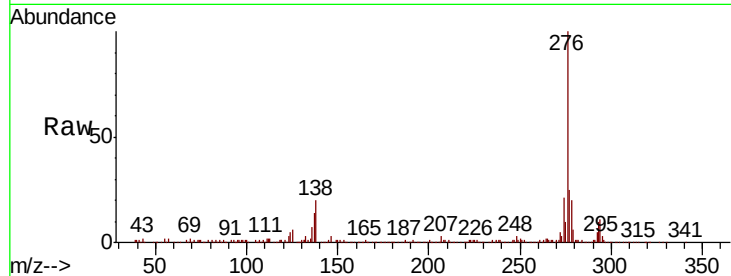
Tgt Ion: 278 Resp: 82194

Ion Ratio Lower Upper

278 100

139 0.0 12.0 18.0#

279 30.1 19.0 28.6#



#92

Benzo(g,h,i)perylene

Concen: 14.134 ng

RT: 17.00 min Scan# 2536

Delta R.T. 0.00 min

Lab File: BF113397.D

Acq: 29 Mar 2019 3:42

Tgt Ion: 276 Resp: 299278

Ion Ratio Lower Upper

276 100

277 23.2 18.8 28.2

138 20.4 15.6 23.4

