

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF032419\
 Data File : BF113270.D
 Acq On : 24 Mar 2019 16:17
 Operator : JU/SJ
 Sample : K2078-01 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-01-005-A

Quant Time: Mar 25 04:20:56 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	147397	20.00	ng	-0.02
21) Naphthalene-d8	7.99	136	570422	20.00	ng	-0.02
39) Acenaphthene-d10	9.75	164	261322	20.00	ng	-0.02
64) Phenanthrene-d10	11.23	188	453095	20.00	ng	-0.02
76) Chrysene-d12	13.86	240	392011	20.00	ng	-0.01
87) Perylene-d12	15.27	264	342406	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.33	112	78374	8.27	ng	-0.02
7) Phenol-d6	6.35	99	383719	32.24	ng	-0.02
23) Nitrobenzene-d5	7.27	82	312370	32.77	ng	-0.03
42) 2,4,6-Tribromophenol	10.53	330	16657	6.00	ng	-0.02
45) 2-Fluorobiphenyl	9.07	172	645600	34.83	ng	-0.02
79) Terphenyl-d14	12.80	244	567590	28.07	ng	-0.02

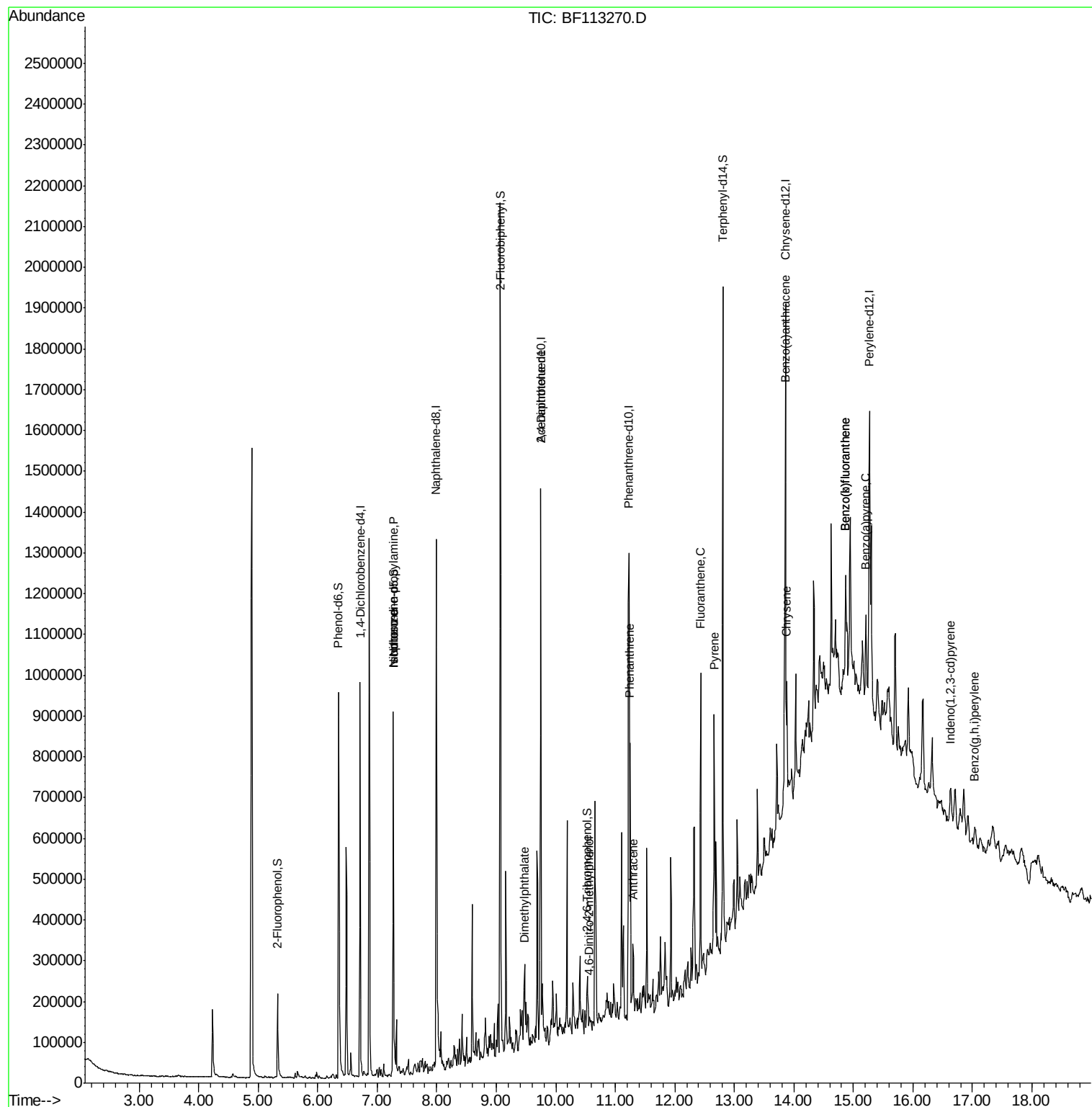
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.27	70	41062	5.447	ng	# 78
25) Isophorone	7.27	82	307408	14.969	ng	# 66
50) Dimethylphthalate	9.46	163	39073	2.028	ng	# 96
57) 2,4-Dinitrotoluene	9.75	165	36458	7.310	ng	# 19
65) 4,6-Dinitro-2-methylphenol	10.56	198	623	4.915	ng	# 8
71) Phenanthrene	11.25	178	266505	11.822	ng	98
72) Anthracene	11.30	178	65302	2.767	ng	98
75) Fluoranthene	12.43	202	295450	12.233	ng	96
78) Pyrene	12.66	202	263023	7.959	ng	99
81) Benzo(a)anthracene	13.84	228	131098	4.825	ng	97
83) Chrysene	13.88	228	118664	4.459	ng	95
86) Indeno(1,2,3-cd)pyrene	16.63	276	45713	2.015	ng	# 92
88) Benzo(b)fluoranthene	14.87	252	172425	7.785	ng	# 90
89) Benzo(k)fluoranthene	14.87	252	172425	8.595	ng	# 90
90) Benzo(a)pyrene	15.21	252	87527	4.468	ng	# 90
92) Benzo(g,h,i)perylene	17.04	276	42659	2.541	ng	# 90

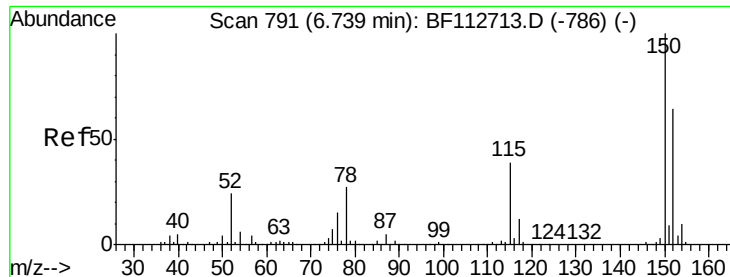
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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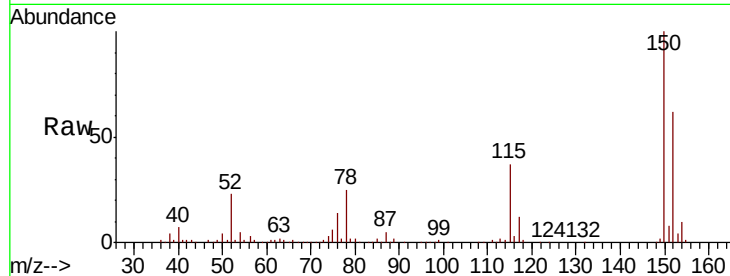


#1

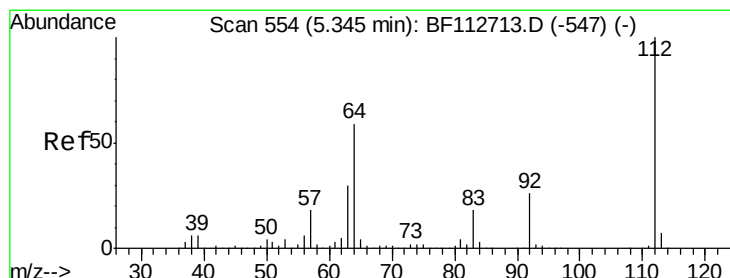
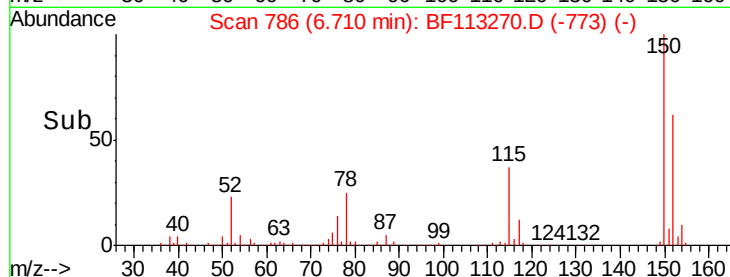
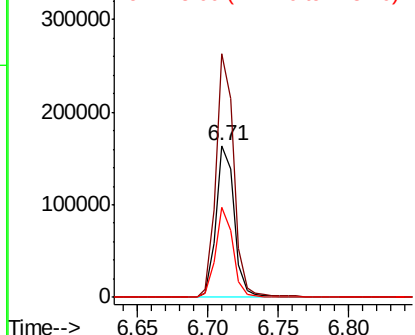
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.71 min Scan# 786
 Delta R.T. -0.02 min
 Lab File: BF113270.D
 Acq: 24 Mar 2019 16:17

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-01-005-A

Tgt Ion:152 Resp: 147397
 Ion Ratio Lower Upper
 152 100
 150 160.2 124.2 186.2
 115 59.4 48.2 72.4



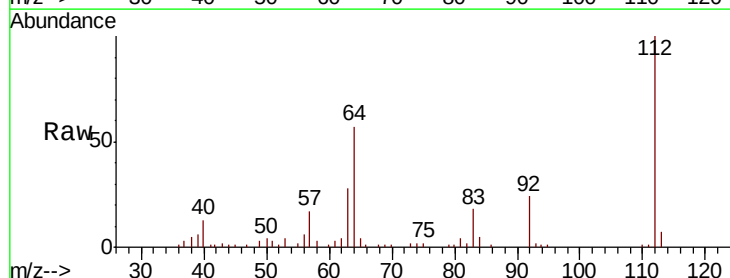
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



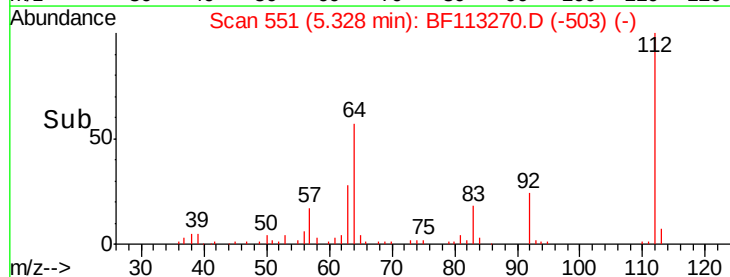
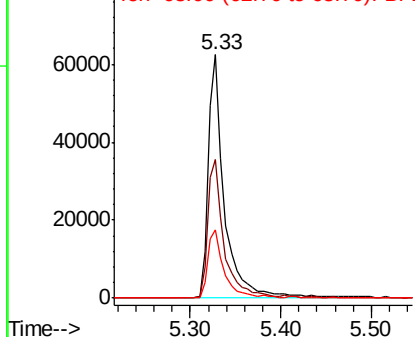
#5

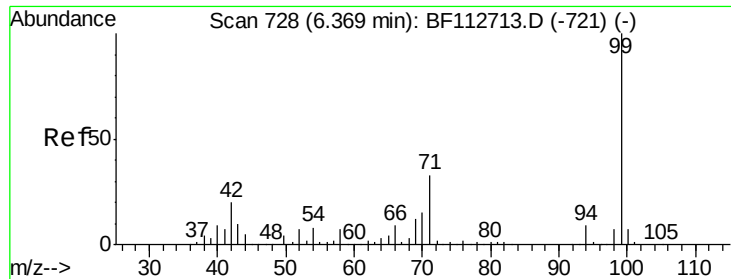
2-Fluorophenol
 Concen: 8.271 ng
 RT: 5.33 min Scan# 551
 Delta R.T. -0.02 min
 Lab File: BF113270.D
 Acq: 24 Mar 2019 16:17

Tgt Ion:112 Resp: 78374
 Ion Ratio Lower Upper
 112 100
 64 57.1 47.6 71.4
 63 28.0 24.4 36.6



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: 32.237 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

Instrument :

BNA_F

ClientSampleId :

FK-SF-01-005-A

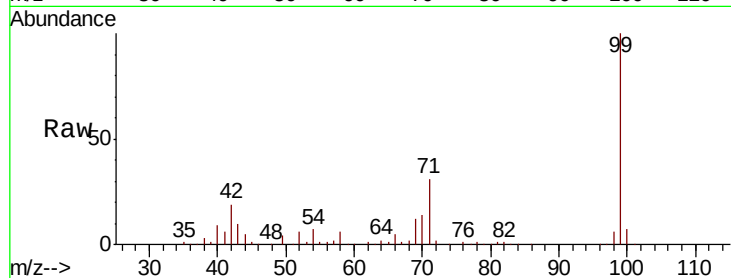
Tgt Ion: 99 Resp: 383719

Ion Ratio Lower Upper

99 100

42 18.9 16.3 24.5

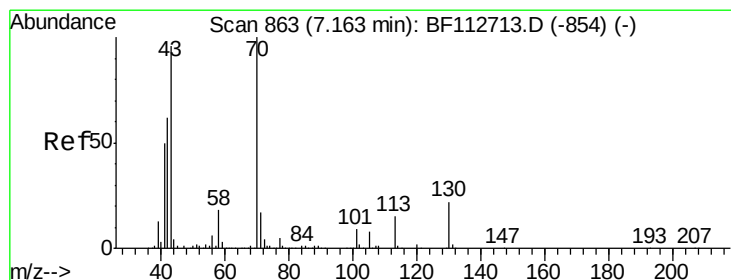
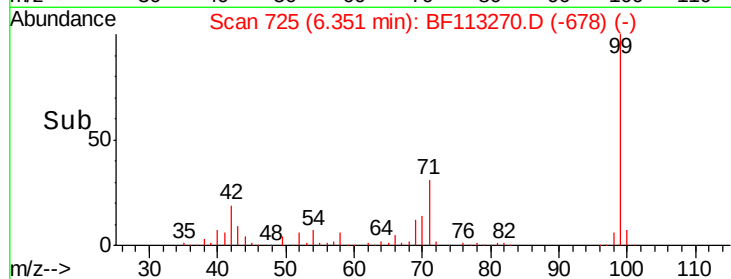
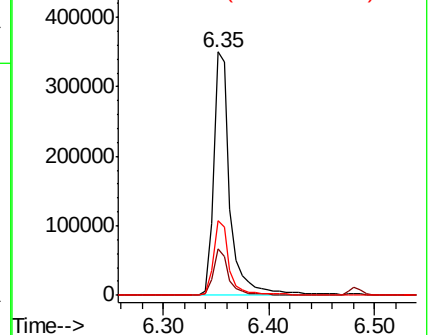
71 30.8 26.2 39.4



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: 5.447 ng

RT: 7.27 min Scan# 881

Delta R.T. 0.11 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

Tgt Ion: 70 Resp: 41062

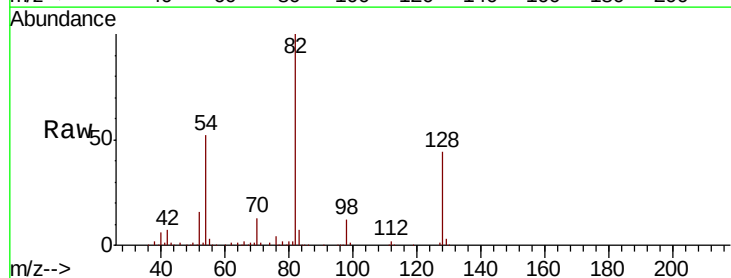
Ion Ratio Lower Upper

70 100

42 50.8 49.9 74.9

101 0.0 7.4 11.2#

130 2.3 17.4 26.2#

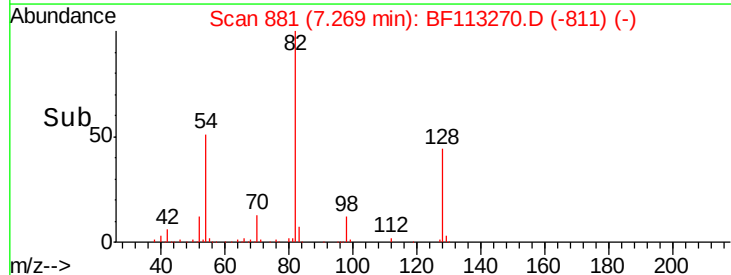
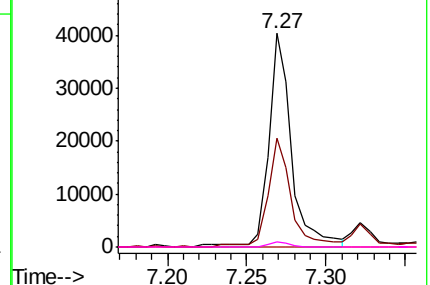


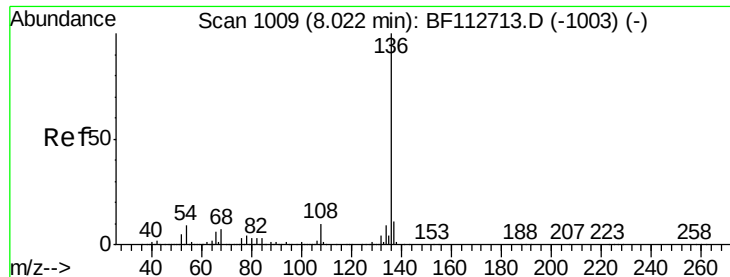
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

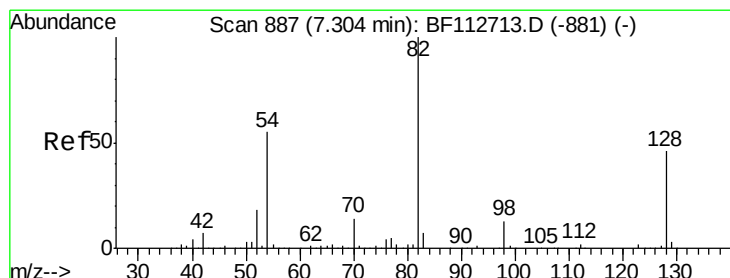
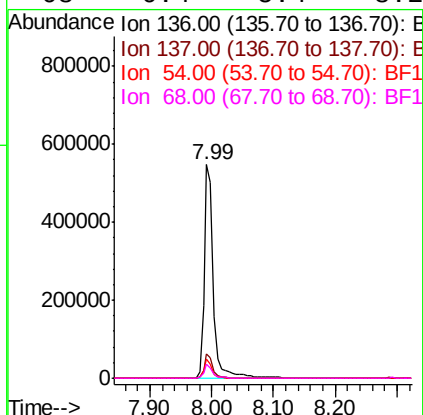
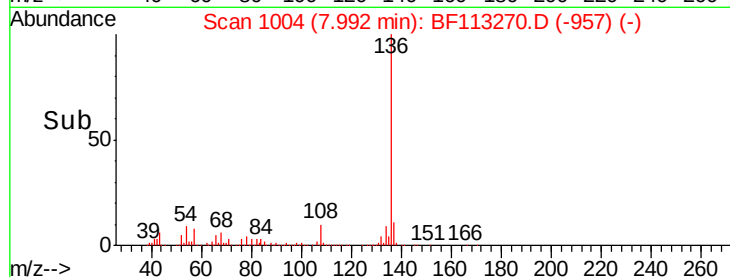
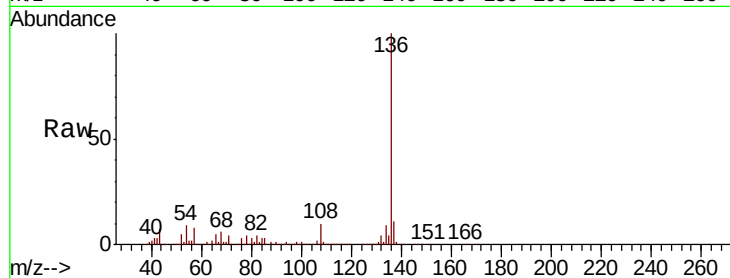




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.99 min Scan# 1004
Delta R.T. -0.02 min
Lab File: BF113270.D
Acq: 24 Mar 2019 16:17

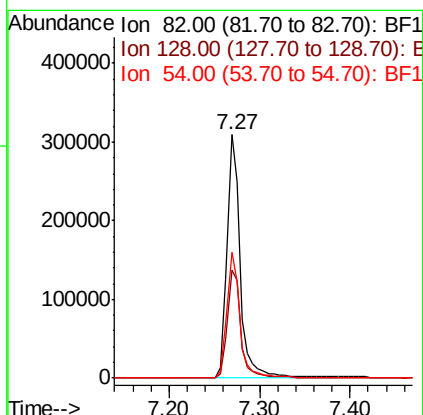
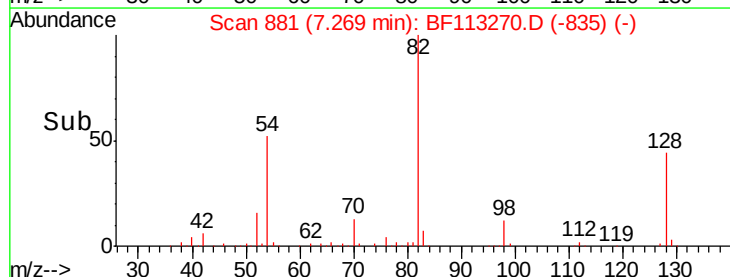
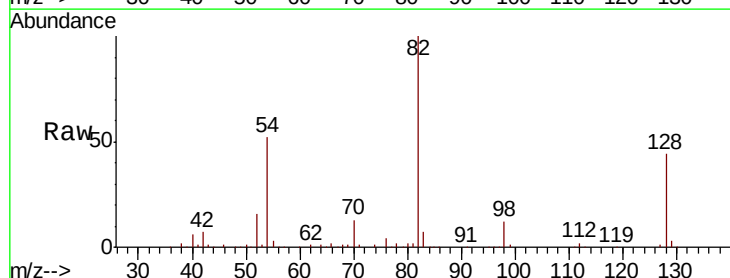
Instrument :
BNA_F
ClientSampleId :
FK-SF-01-005-A

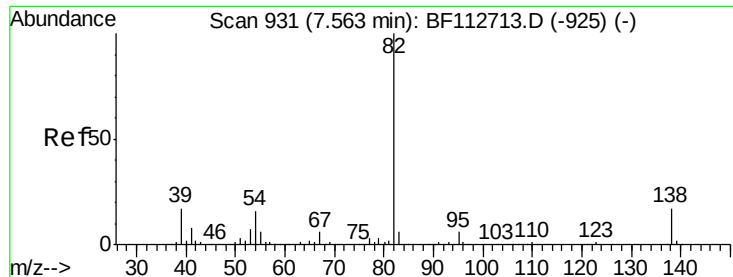
Tgt Ion:	136	Resp:	570422
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	9.1	7.3	10.9
68	6.4	5.4	8.2



#23
Nitrobenzene-d5
Concen: 32.768 ng
RT: 7.27 min Scan# 881
Delta R.T. -0.03 min
Lab File: BF113270.D
Acq: 24 Mar 2019 16:17

Tgt Ion:	82	Resp:	312370
Ion	Ratio	Lower	Upper
82	100		
128	44.1	36.3	54.5
54	51.9	43.7	65.5





#25

Isophorone

Concen: 14.969 ng

RT: 7.27 min Scan# 881

Delta R.T. -0.29 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

Instrument :

BNA_F

ClientSampleId :

FK-SF-01-005-A

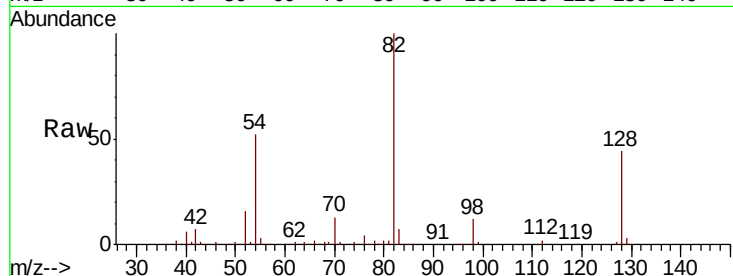
Tgt Ion: 82 Resp: 307408

Ion Ratio Lower Upper

82 100

95 0.2 5.2 7.8#

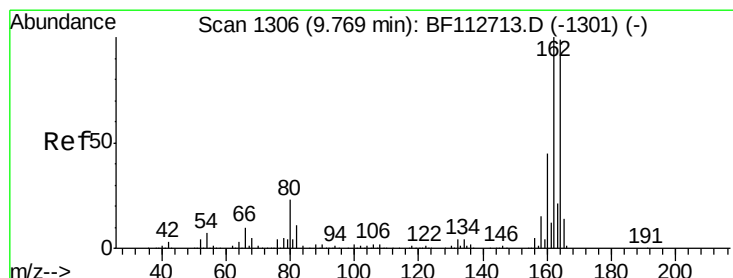
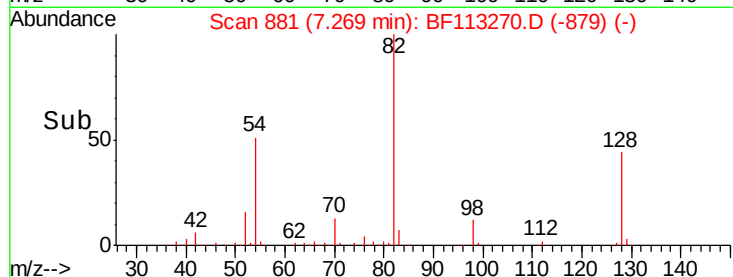
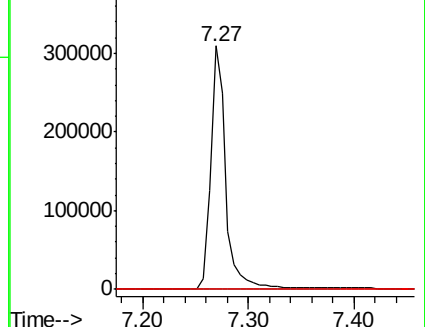
138 0.0 13.8 20.8#



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): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.02 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

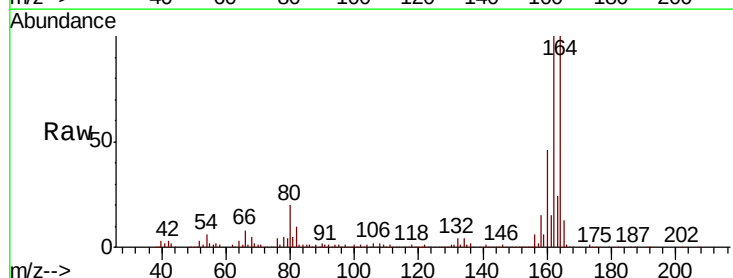
Tgt Ion: 164 Resp: 261322

Ion Ratio Lower Upper

164 100

162 100.1 80.6 120.8

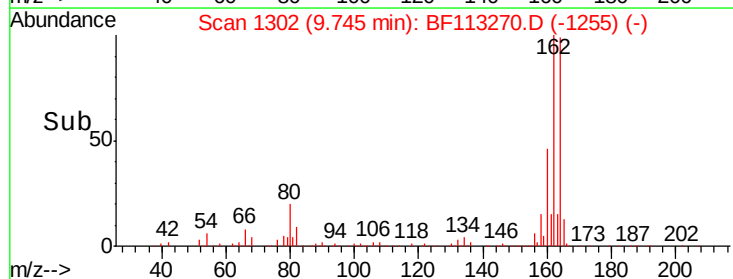
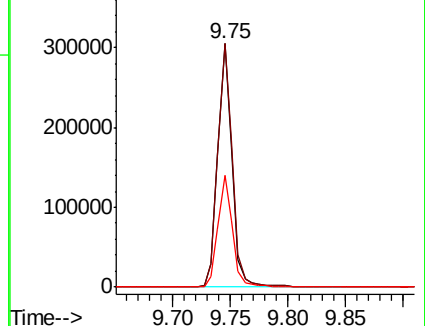
160 46.2 36.0 54.0

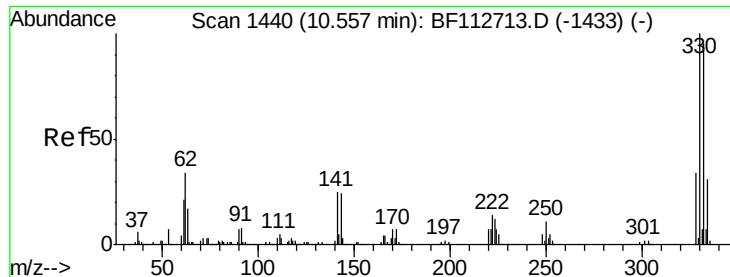


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 6.004 ng

RT: 10.53 min Scan# 1436

Delta R.T. -0.02 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

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ClientSampleId :

FK-SF-01-005-A

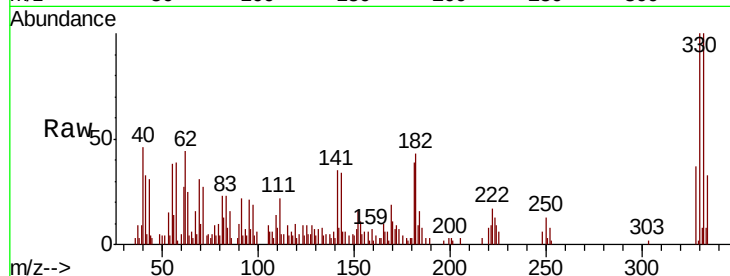
Tgt Ion:330 Resp: 16657

Ion Ratio Lower Upper

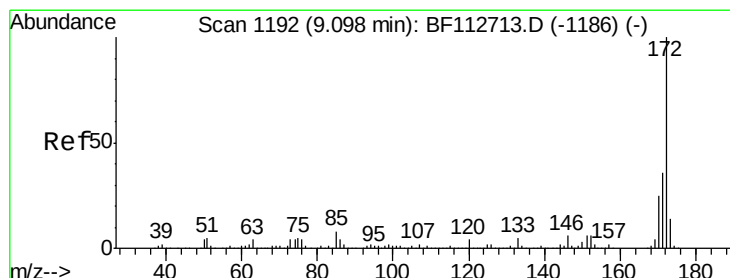
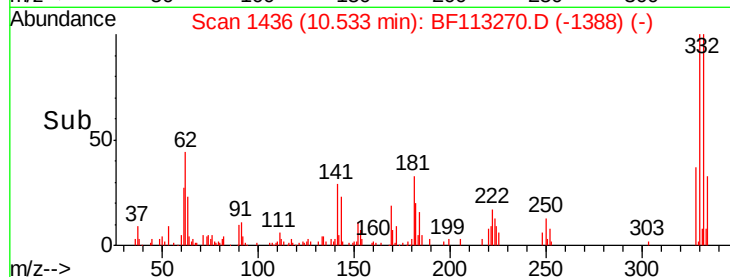
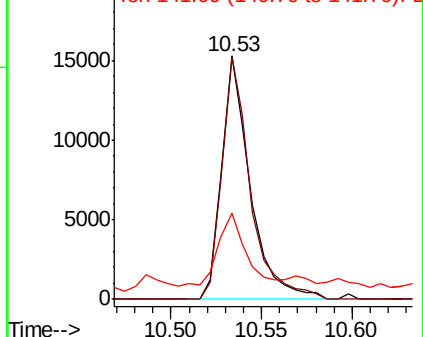
330 100

332 99.8 76.2 114.4

141 28.8 27.0 40.6



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: 34.828 ng

RT: 9.07 min Scan# 1187

Delta R.T. -0.02 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

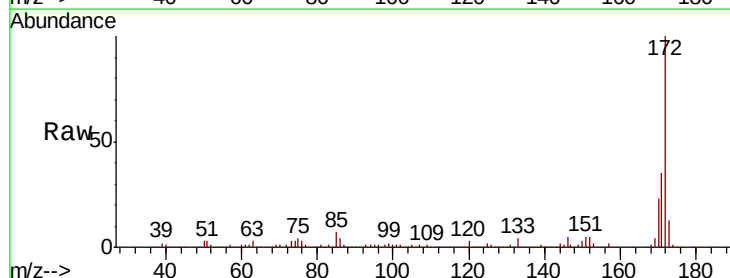
Tgt Ion:172 Resp: 645600

Ion Ratio Lower Upper

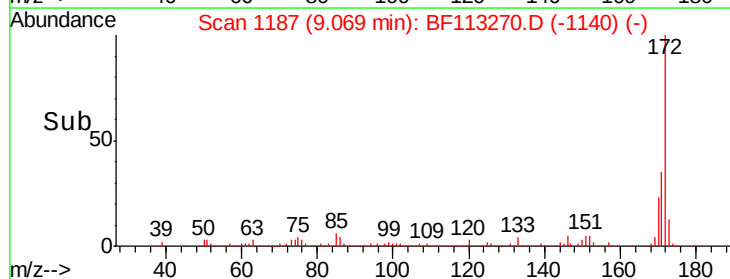
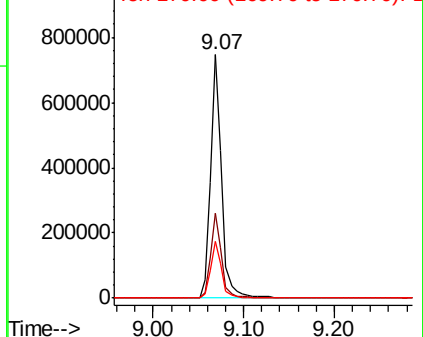
172 100

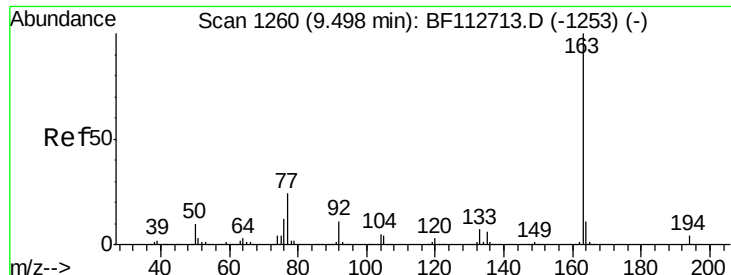
171 35.1 29.0 43.4

170 23.4 20.0 30.0



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

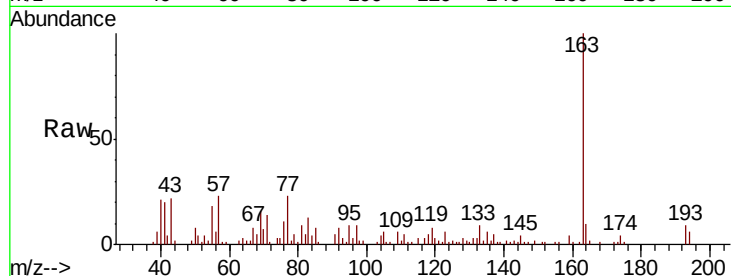




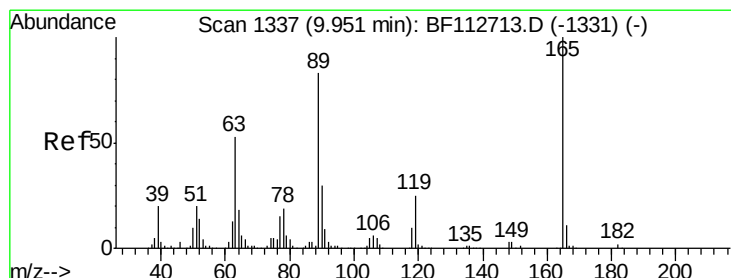
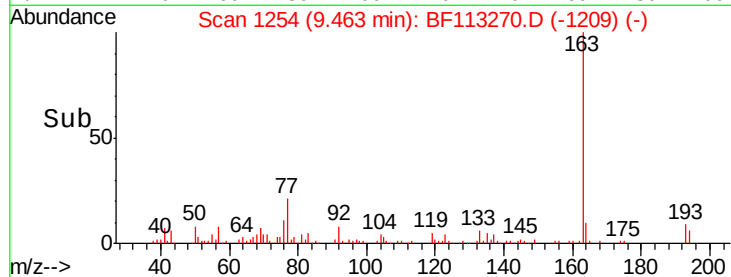
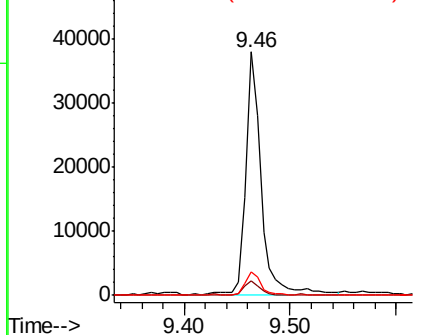
#50
 Dimethylphthalate
 Concen: 2.028 ng
 RT: 9.46 min Scan# 1254
 Delta R.T. -0.04 min
 Lab File: BF113270.D
 Acq: 24 Mar 2019 16:17

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-01-005-A

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.8	3.0	4.4#
164	9.5	8.4	12.6



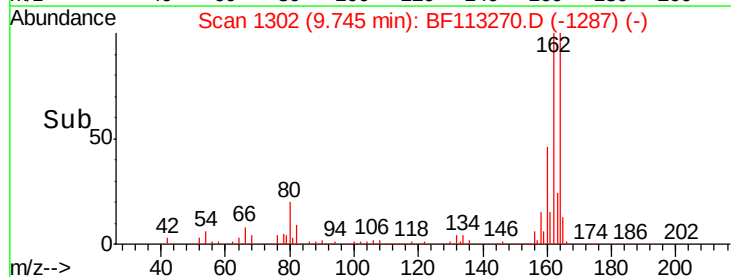
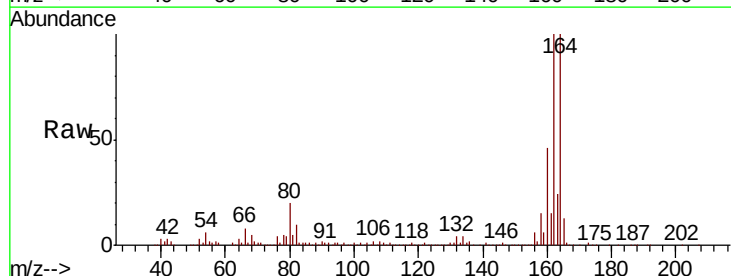
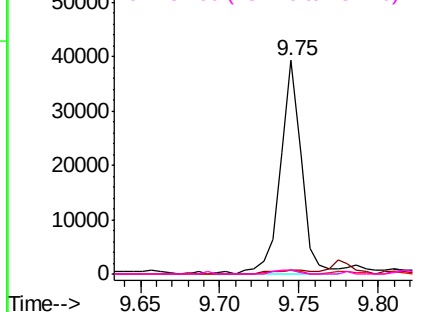
Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E

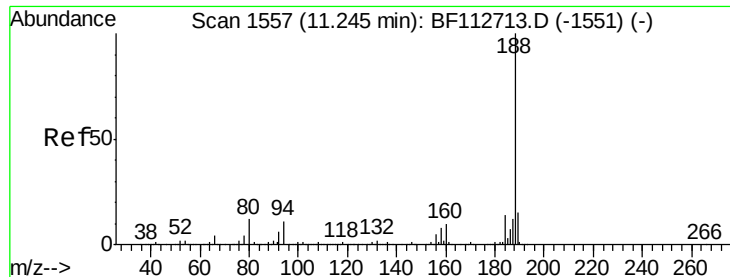


#57
 2,4-Dinitrotoluene
 Concen: 7.310 ng
 RT: 9.75 min Scan# 1302
 Delta R.T. -0.21 min
 Lab File: BF113270.D
 Acq: 24 Mar 2019 16:17

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.9	42.2	63.2#
89	2.1	66.2	99.4#
182	1.5	1.8	2.6#

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: 11.23 min Scan# 1554

Delta R.T. -0.02 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

Instrument :

BNA_F

ClientSampleId :

FK-SF-01-005-A

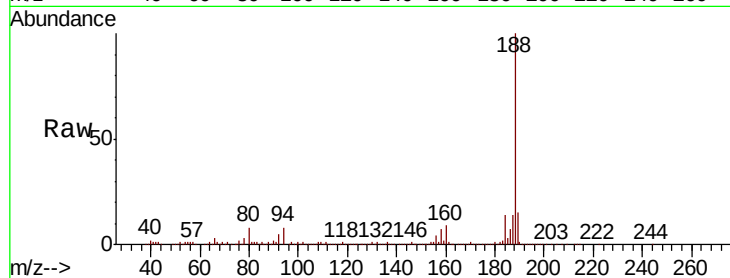
Tgt Ion:188 Resp: 453095

Ion Ratio Lower Upper

188 100

94 8.4 9.0 13.4#

80 8.4 9.2 13.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

11.23

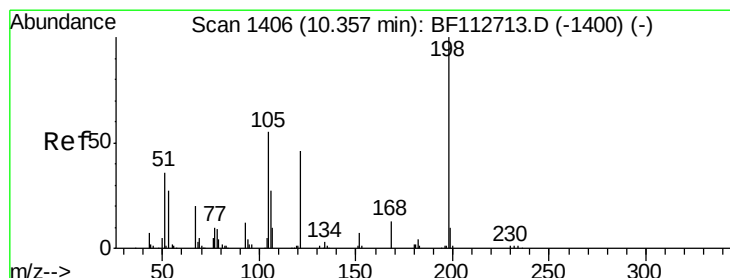
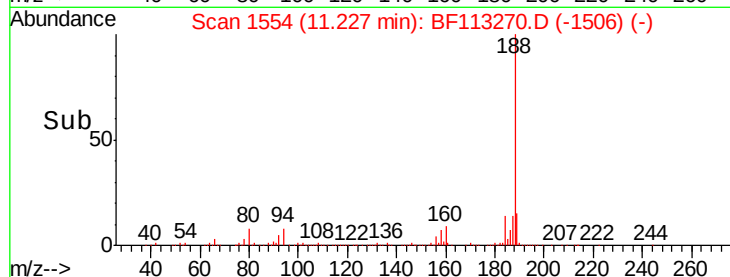
600000

400000

200000

0

Time-->



#65

4,6-Dinitro-2-methylphenol

Concen: 4.915 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.19 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

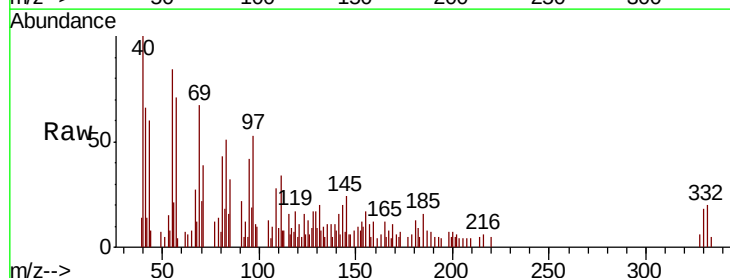
Tgt Ion:198 Resp: 623

Ion Ratio Lower Upper

198 100

51 70.4 43.8 83.8

105 192.7 36.5 76.5#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

4000

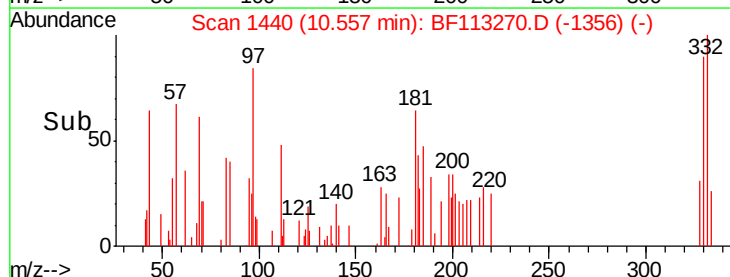
3000

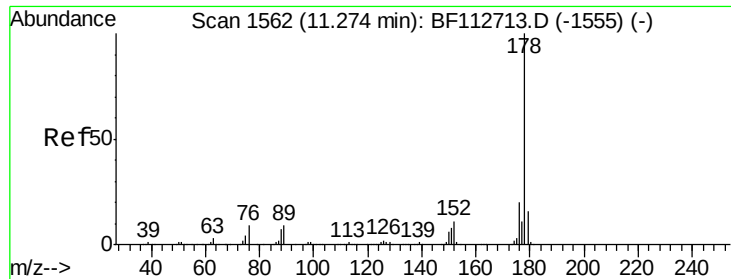
2000

1000

0

Time-->

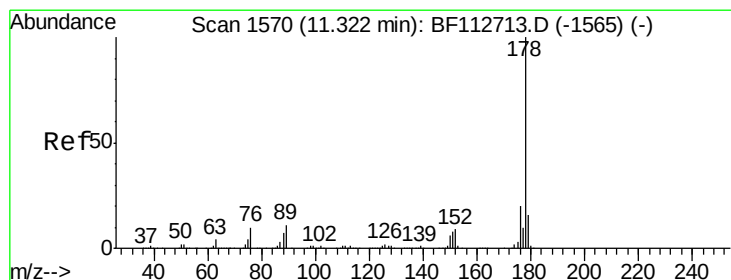
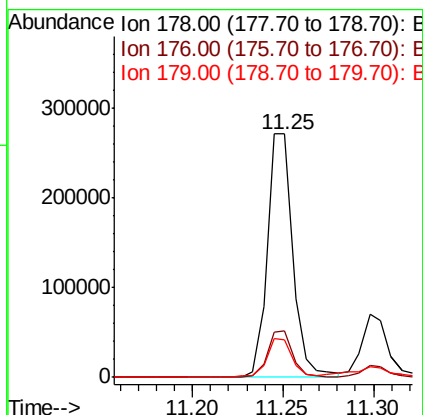
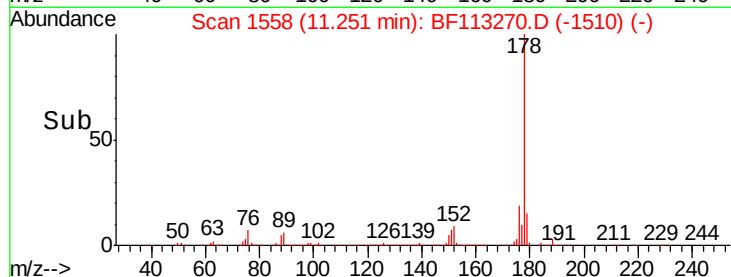
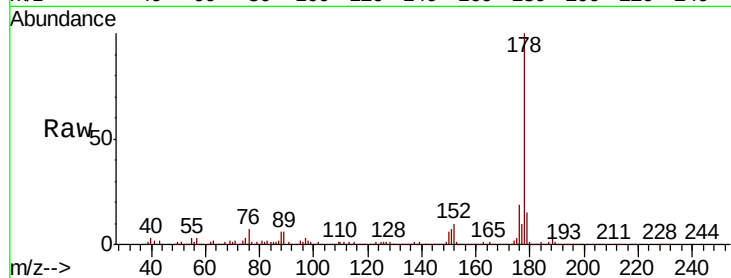




#71
Phenanthrene
Concen: 11.822 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.02 min
Lab File: BF113270.D
Acq: 24 Mar 2019 16:17

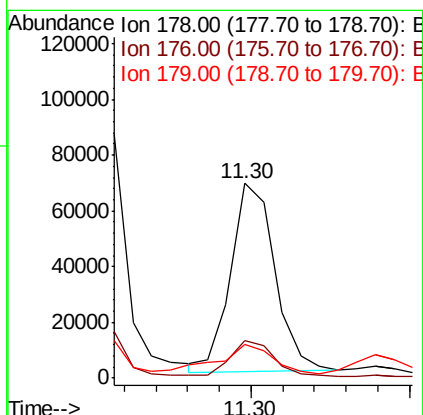
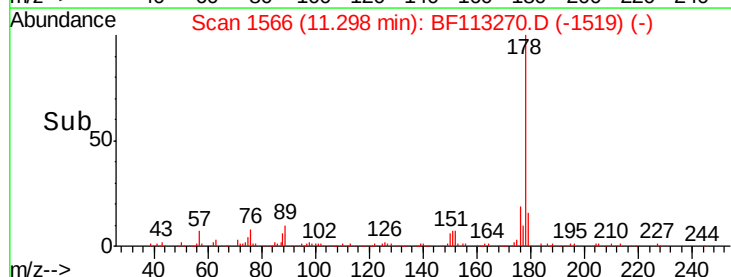
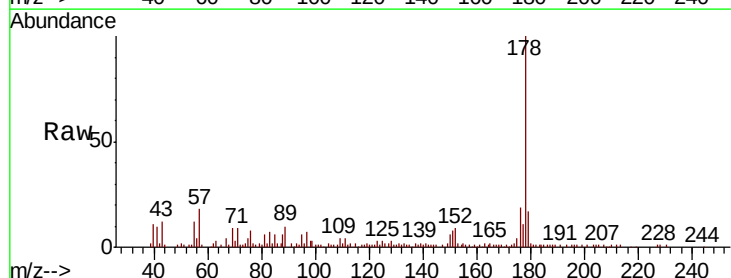
Instrument :
BNA_F
ClientSampleId :
FK-SF-01-005-A

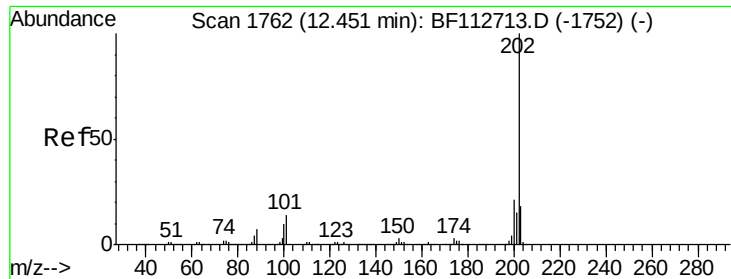
Tgt Ion:178 Resp: 266505
Ion Ratio Lower Upper
178 100
176 19.0 16.3 24.5
179 15.3 12.7 19.1



#72
Anthracene
Concen: 2.767 ng
RT: 11.30 min Scan# 1566
Delta R.T. -0.02 min
Lab File: BF113270.D
Acq: 24 Mar 2019 16:17

Tgt Ion:178 Resp: 65302
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.6
179 17.1 13.0 19.6





#75

Fluoranthene

Concen: 12.233 ng

RT: 12.43 min Scan# 1759

Delta R.T. -0.02 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

Instrument :

BNA_F

ClientSampleId :

FK-SF-01-005-A

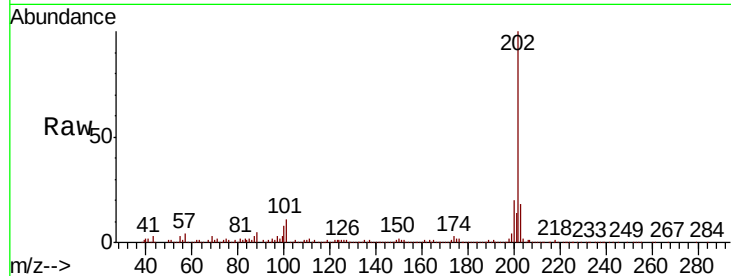
Tgt Ion: 202 Resp: 295450

Ion Ratio Lower Upper

202 100

101 10.7 0.0 33.8

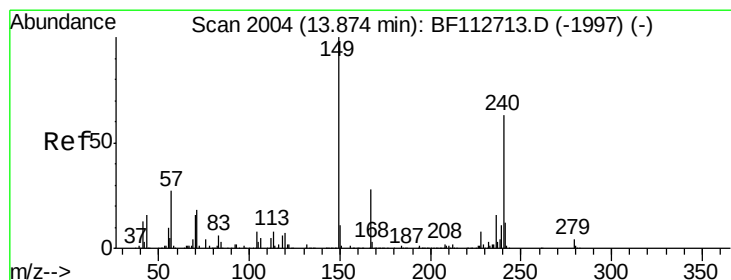
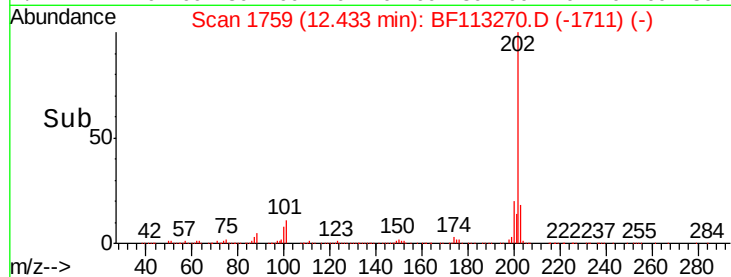
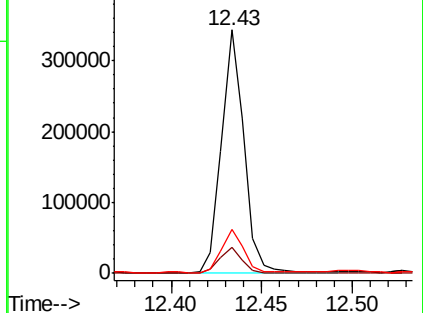
203 18.0 0.0 38.4



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: 13.86 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

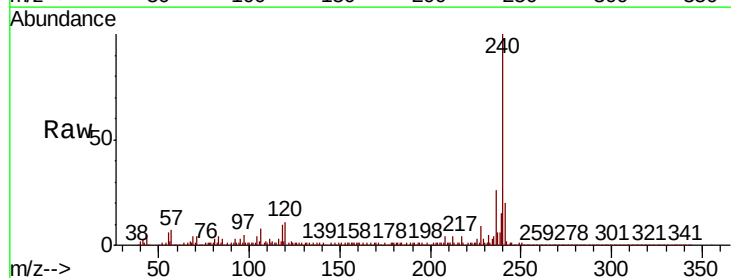
Tgt Ion: 240 Resp: 392011

Ion Ratio Lower Upper

240 100

120 11.2 8.9 13.3

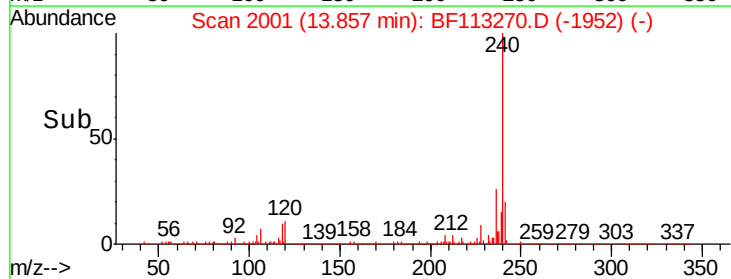
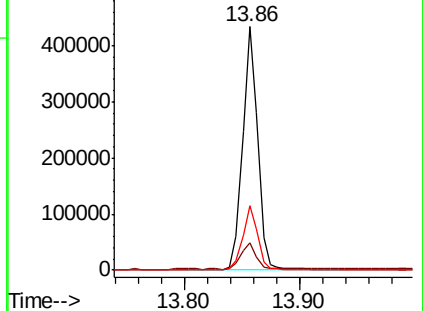
236 26.4 20.7 31.1

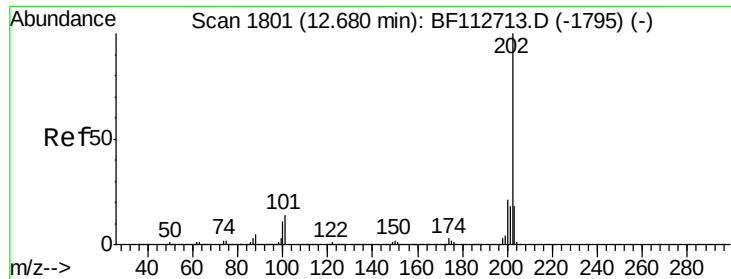


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

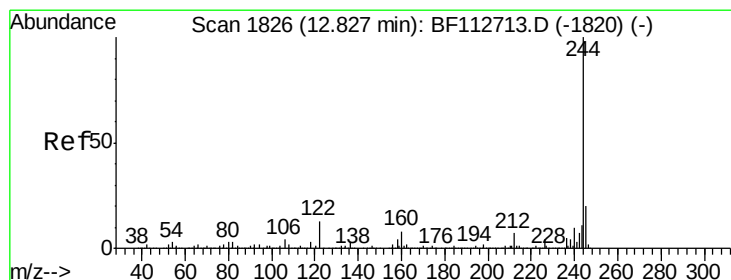
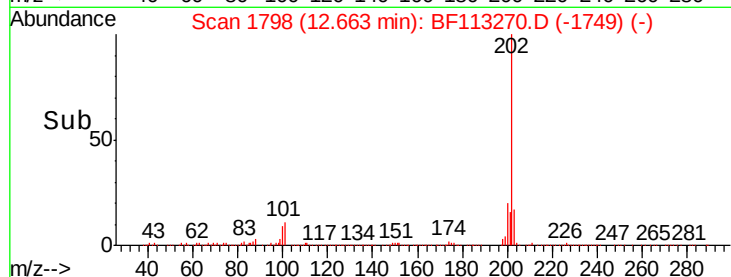
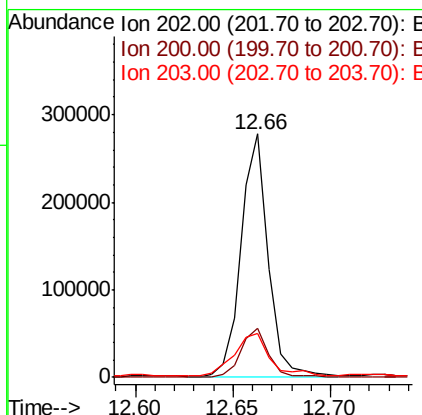
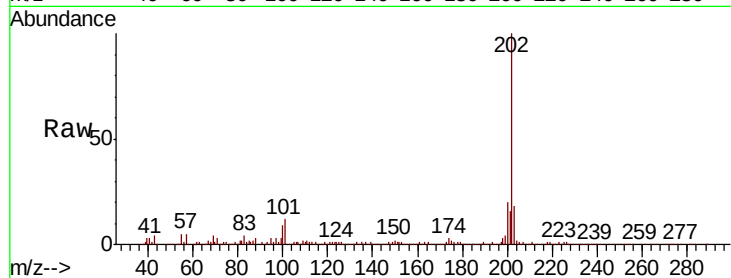




#78
 Pyrene
 Concen: 7.959 ng
 RT: 12.66 min Scan# 1798
 Delta R.T. -0.01 min
 Lab File: BF113270.D
 Acq: 24 Mar 2019 16:17

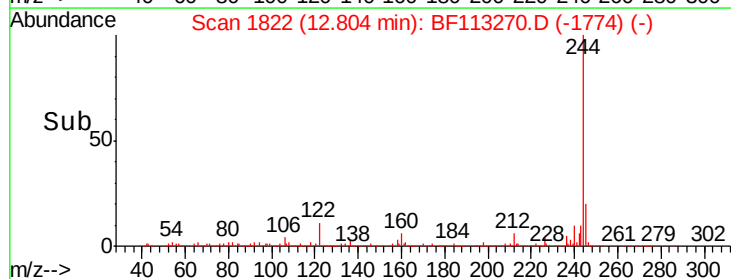
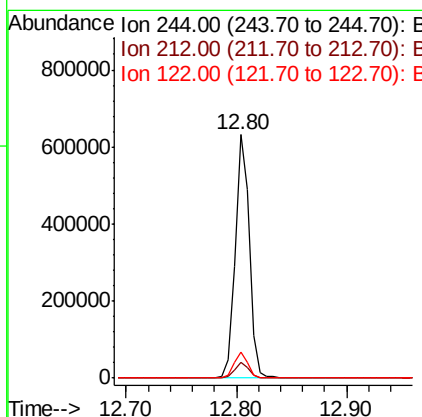
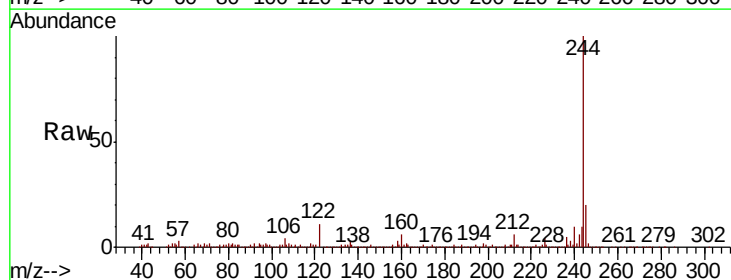
Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-01-005-A

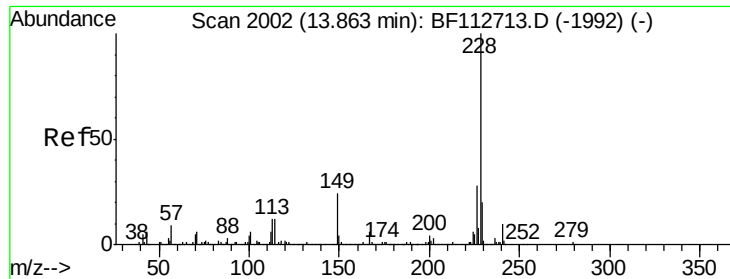
Tgt Ion:	202	Resp:	263023
Ion	Ratio	Lower	Upper
202	100		
200	20.2	17.0	25.4
203	18.2	14.4	21.6



#79
 Terphenyl-d14
 Concen: 28.067 ng
 RT: 12.80 min Scan# 1822
 Delta R.T. -0.02 min
 Lab File: BF113270.D
 Acq: 24 Mar 2019 16:17

Tgt Ion:	244	Resp:	567590
Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.6	8.4
122	10.9	10.5	15.7





#81

Benzo(a)anthracene

Concen: 4.825 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.01 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

Instrument :

BNA_F

ClientSampleId :

FK-SF-01-005-A

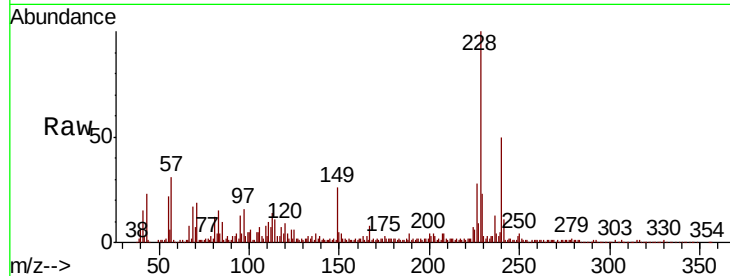
Tgt Ion:228 Resp: 131098

Ion Ratio Lower Upper

228 100

226 27.8 22.2 33.4

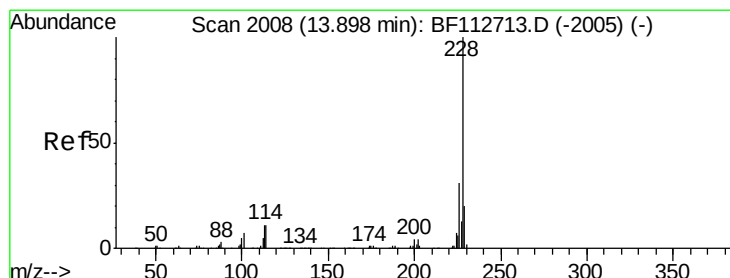
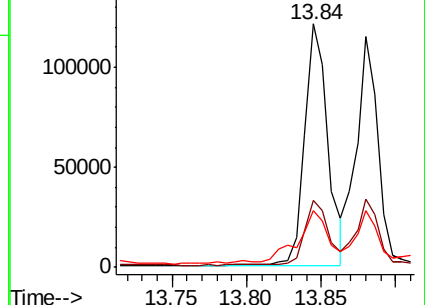
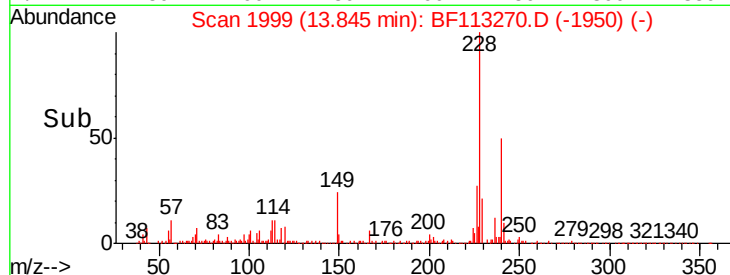
229 23.1 16.0 24.0



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: 4.459 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

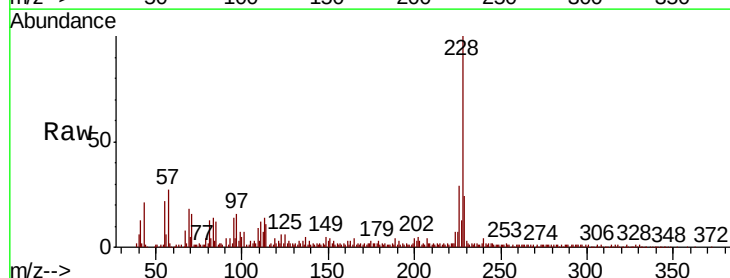
Tgt Ion:228 Resp: 118664

Ion Ratio Lower Upper

228 100

226 29.3 24.9 37.3

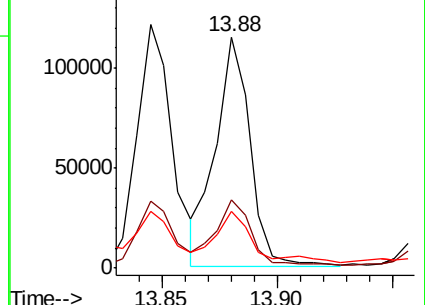
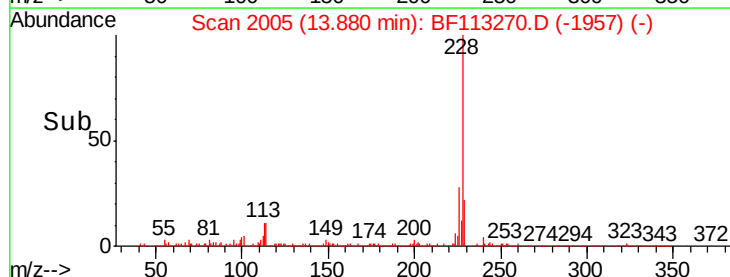
229 24.4 16.3 24.5

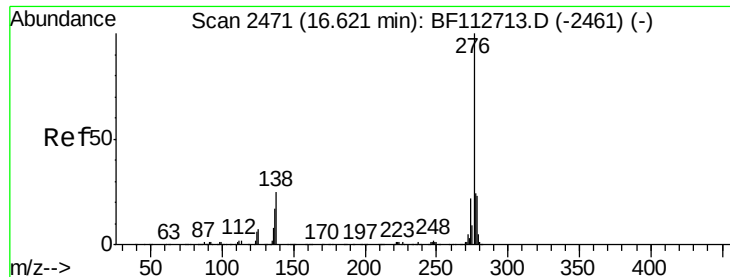


Abundance Ion 228.00 (227.70 to 228.70): E

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: 2.015 ng

RT: 16.63 min Scan# 2473

Delta R.T. -0.01 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

Instrument :

BNA_F

ClientSampleId :

FK-SF-01-005-A

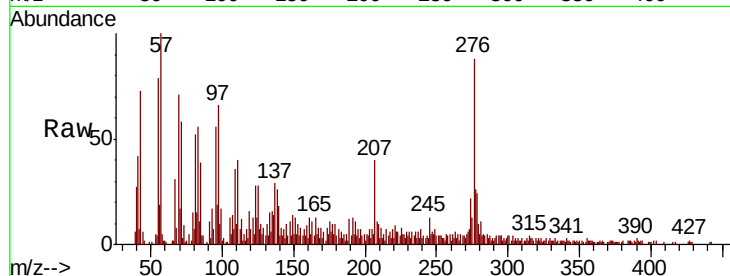
Tgt Ion:276 Resp: 45713

Ion Ratio Lower Upper

276 100

138 22.2 23.2 34.8#

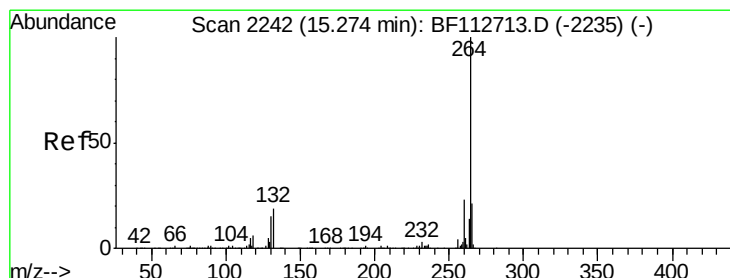
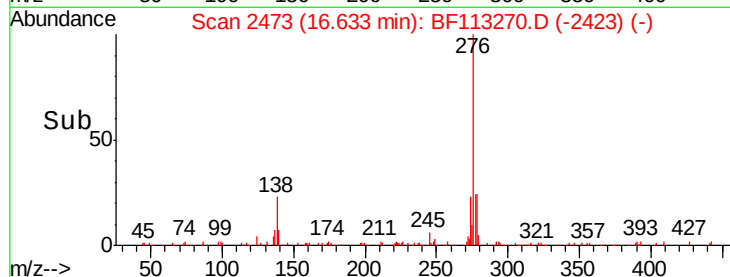
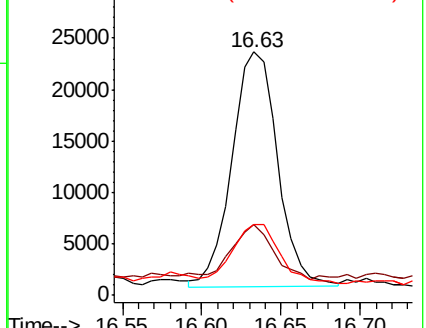
277 26.6 19.9 29.9



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: 15.27 min Scan# 2241

Delta R.T. -0.01 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

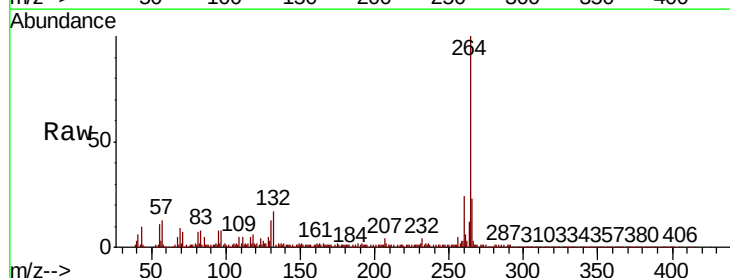
Tgt Ion:264 Resp: 342406

Ion Ratio Lower Upper

264 100

260 24.5 18.7 28.1

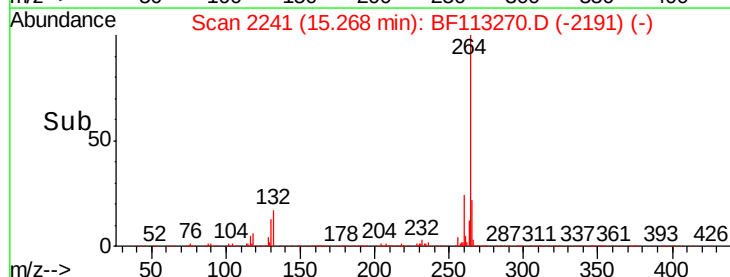
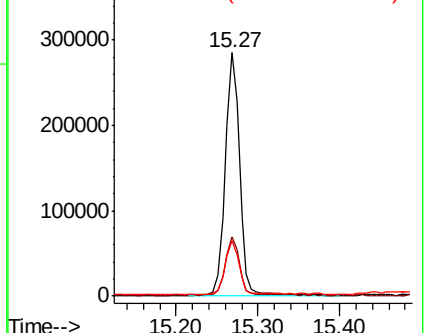
265 22.7 17.2 25.8

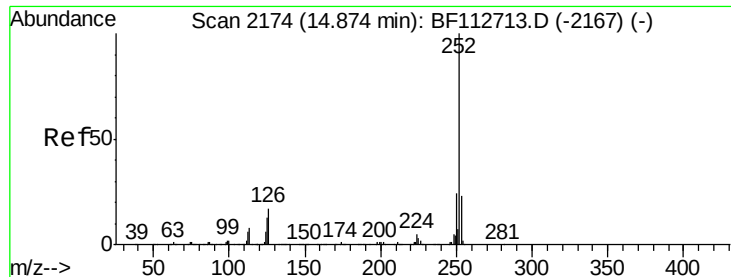


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

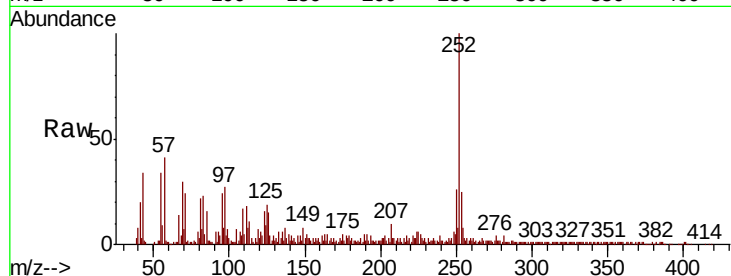




#88
Benzo(b)fluoranthene
Concen: 7.785 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BF113270.D
Acq: 24 Mar 2019 16:17

Instrument :
BNA_F
ClientSampleId :
FK-SF-01-005-A

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.2	18.0	27.0
125	19.3	10.2	15.2

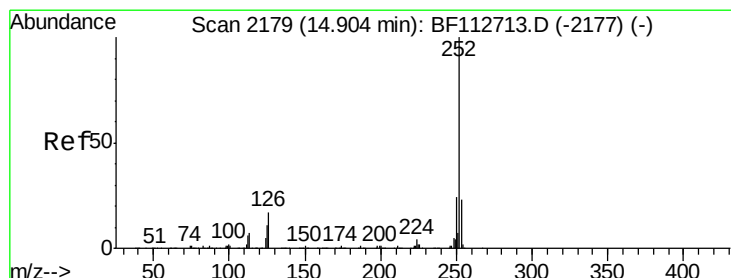
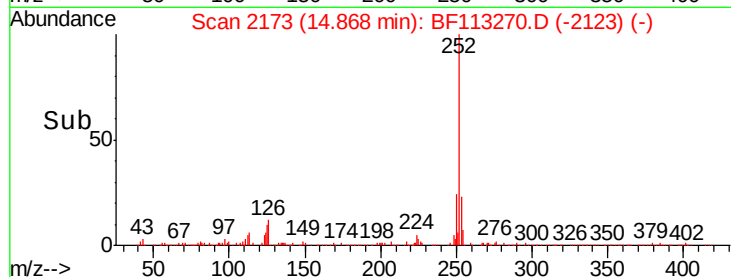
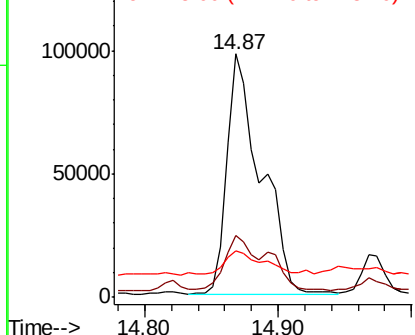


Abundance

Ion 252.00 (251.70 to 252.70): E

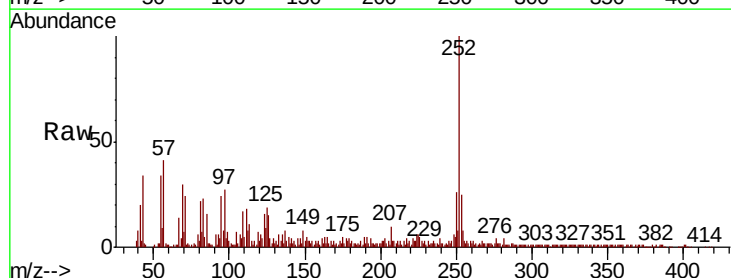
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 8.595 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.04 min
Lab File: BF113270.D
Acq: 24 Mar 2019 16:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.2	18.2	27.2
125	19.3	9.8	14.6

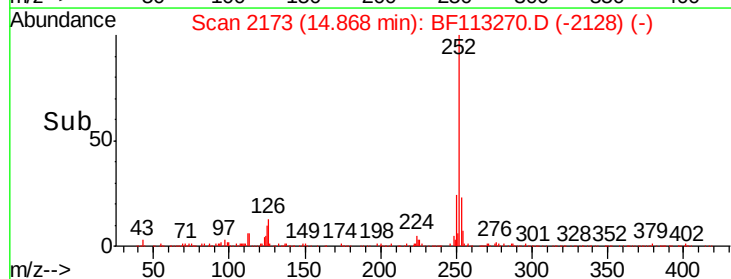
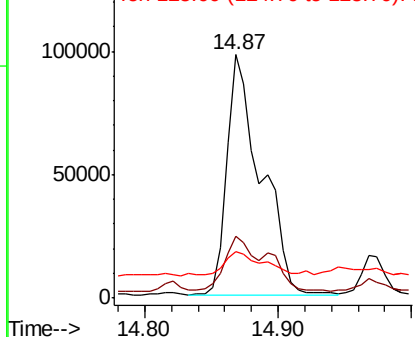


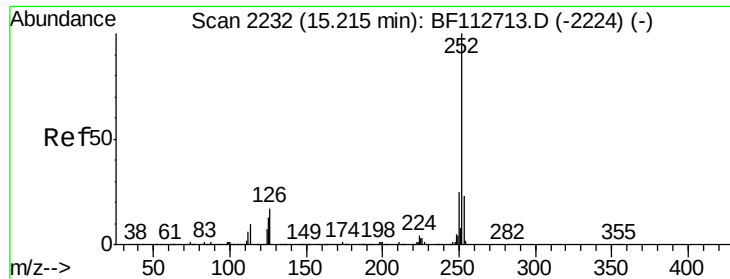
Abundance

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: 4.468 ng

RT: 15.21 min Scan# 2231

Delta R.T. -0.01 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

Instrument :

BNA_F

ClientSampleId :

FK-SF-01-005-A

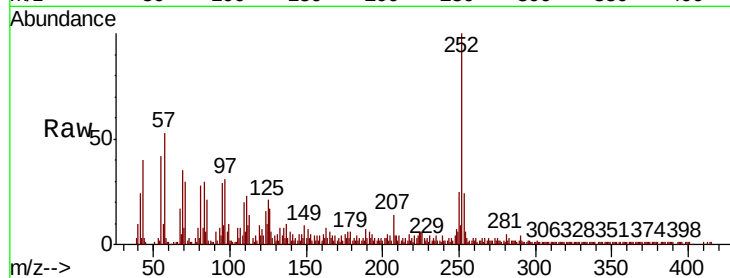
Tgt Ion:252 Resp: 87527

Ion Ratio Lower Upper

252 100

253 24.5 18.0 27.0

125 21.1 10.7 16.1#

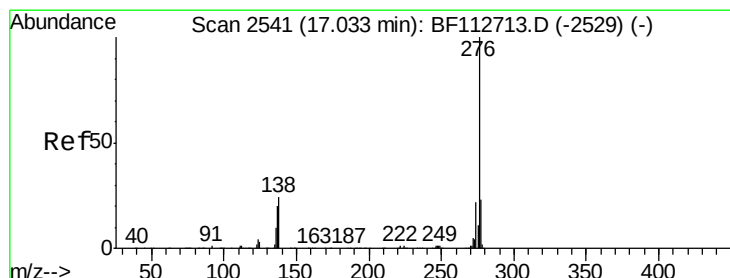
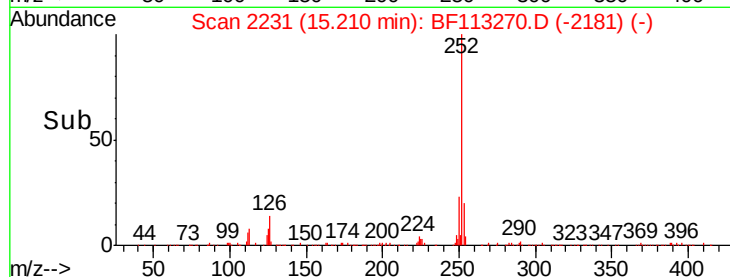
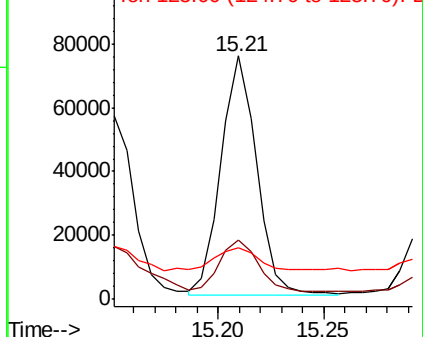


Abundance

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



#92

Benzo(g,h,i)perylene

Concen: 2.541 ng

RT: 17.04 min Scan# 2542

Delta R.T. -0.01 min

Lab File: BF113270.D

Acq: 24 Mar 2019 16:17

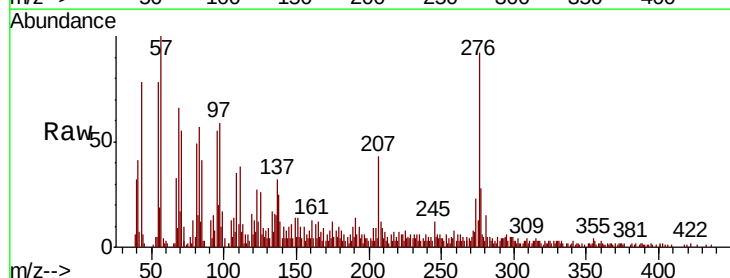
Tgt Ion:276 Resp: 42659

Ion Ratio Lower Upper

276 100

277 30.0 18.6 27.8#

138 27.1 19.4 29.0



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

