

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051019\
 Data File : BF114142.D
 Acq On : 11 May 2019 00:59
 Operator : JU/SJ
 Sample : K2647-05 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-02-050919-A

Quant Time: May 11 04:04:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	282833	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	1023530	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	430492	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	828382	20.00	ng	0.00
76) Chrysene-d12	14.01	240	586540	20.00	ng	-0.01
87) Perylene-d12	15.47	264	517203	20.00	ng	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	5.47	112	443444	25.23	ng	0.00
7) Phenol-d6	6.49	99	580323	27.92	ng	0.00
23) Nitrobenzene-d5	7.41	82	292390	16.03	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	106893	24.02	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	541221	19.02	ng	0.00
79) Terphenyl-d14	12.95	244	571445	20.08	ng	0.00

Target Compounds

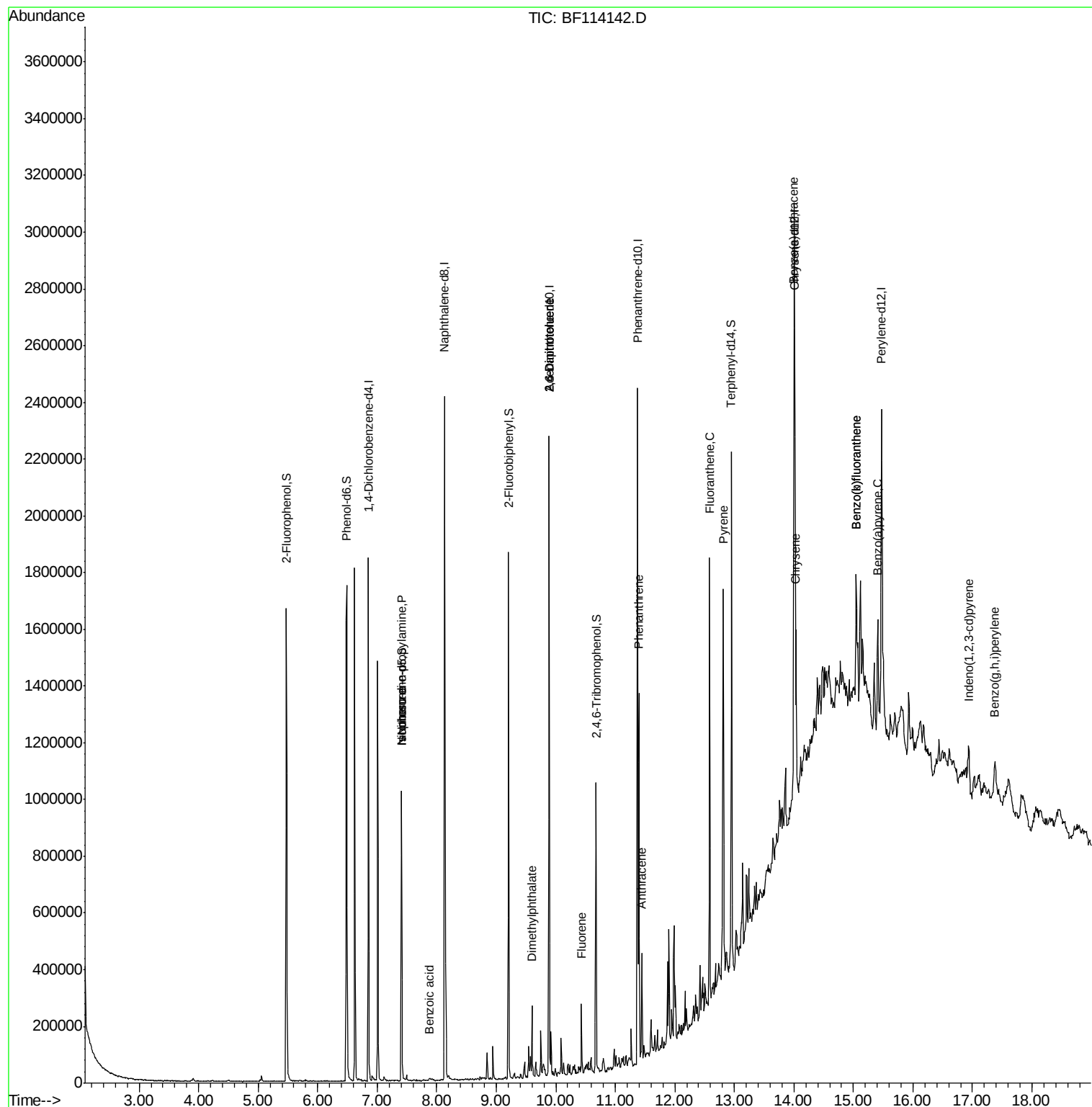
						Qvalue
19) n-Nitroso-di-n-propylamine	7.41	70	37418	2.840	ng	# 75
25) Isophorone	7.41	82	292388	8.644	ng	# 64
32) Benzoic acid	7.88	122	431	7.057	ng	93
50) Dimethylphthalate	9.60	163	83419	2.640	ng	99
51) 2,6-Dinitrotoluene	9.89	165	56723	8.092	ng	# 22
57) 2,4-Dinitrotoluene	9.89	165	56723	5.962	ng	# 25
58) Fluorene	10.43	166	64744	2.188	ng	98
71) Phenanthrene	11.40	178	462996	11.488	ng	97
72) Anthracene	11.45	178	140307	3.466	ng	95
75) Fluoranthene	12.59	202	622814	14.351	ng	99
78) Pyrene	12.82	202	579437	12.280	ng	98
81) Benzo(a)anthracene	14.00	228	251733	6.636	ng	97
83) Chrysene	14.03	228	223772	6.017	ng	99
86) Indeno(1,2,3-cd)pyrene	16.93	276	98079	2.984	ng	97
88) Benzo(b)fluoranthene	15.04	252	329004	9.929	ng	# 91
89) Benzo(k)fluoranthene	15.04	252	329004	10.809	ng	# 92
90) Benzo(a)pyrene	15.41	252	171944	5.896	ng	# 90
92) Benzo(g,h,i)perylene	17.37	276	94724	3.901	ng	# 92

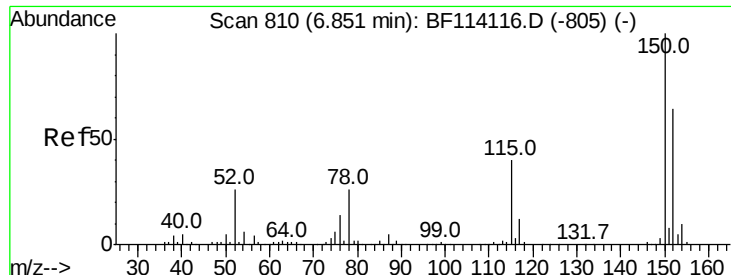
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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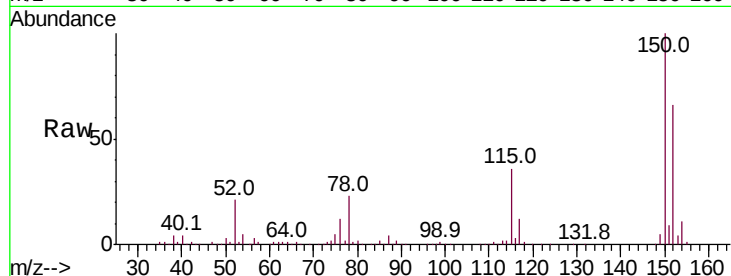


#1

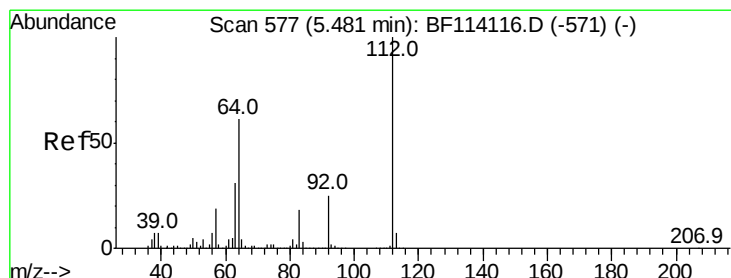
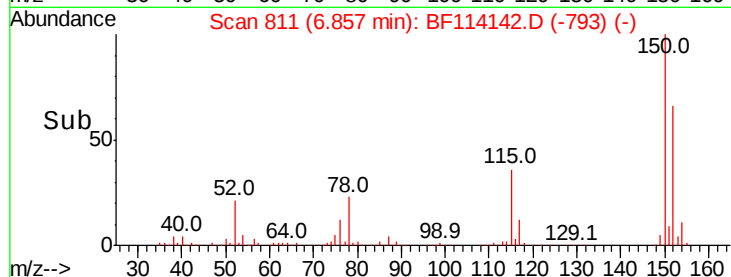
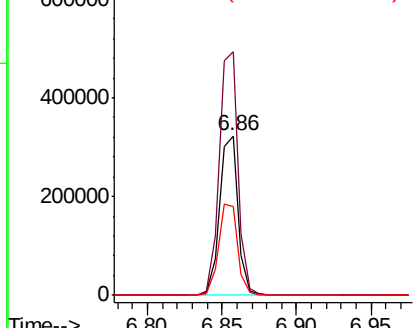
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. 0.01 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Instrument :
BNA_F
ClientSampleId :
SU-02-050919-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.6	124.3	186.5
115	55.5	49.1	73.7



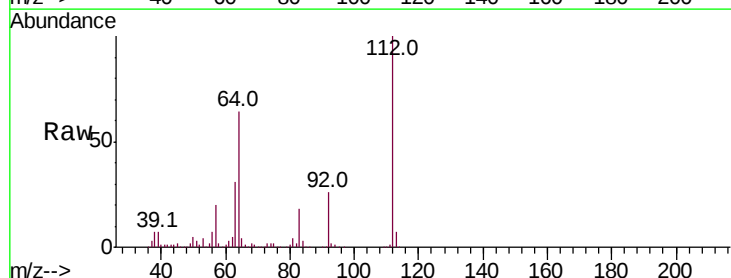
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



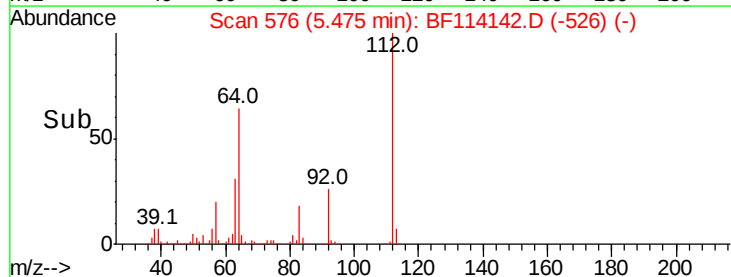
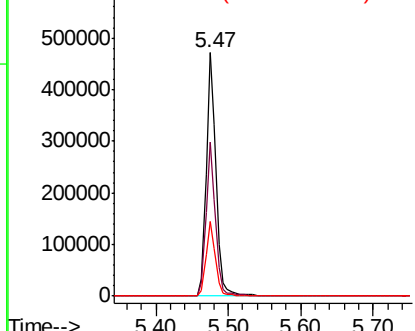
#5

2-Fluorophenol
Concen: 25.231 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	49.0	73.6
63	30.7	24.6	37.0



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: 27.918 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

Instrument :

BNA_F

ClientSampleId :

SU-02-050919-A

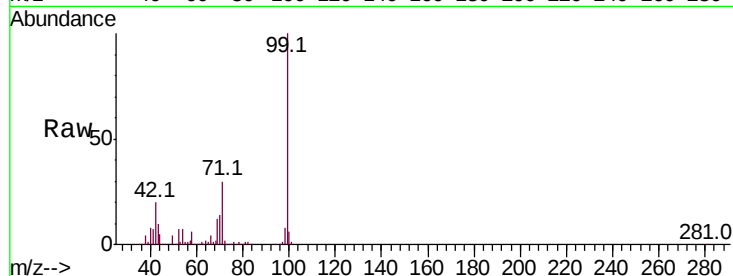
Tot Ion: 99 Resp: 580323

Ion Ratio Lower Upper

99 100

42 19.7 17.9 26.9

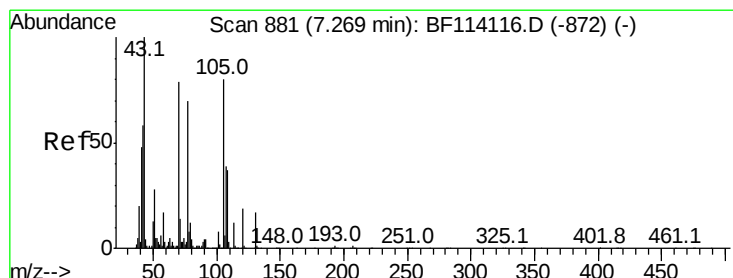
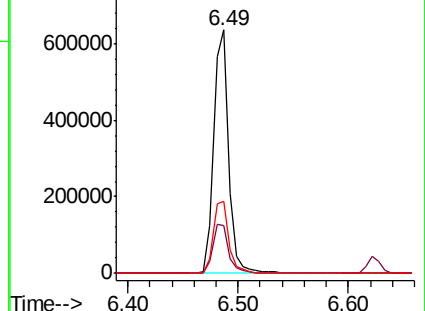
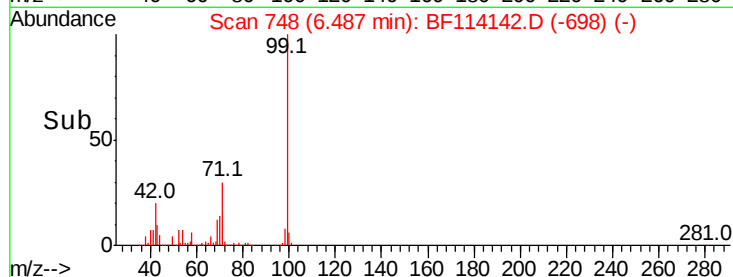
71 29.7 26.2 39.2



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: 2.840 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

Tgt Ion: 70 Resp: 37418

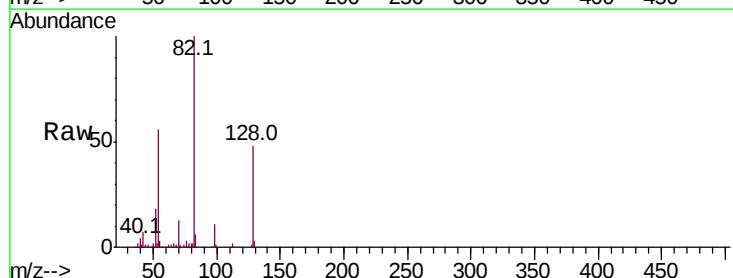
Ion Ratio Lower Upper

70 100

42 55.8 58.6 87.8#

101 0.0 7.8 11.8#

130 2.8 17.1 25.7#

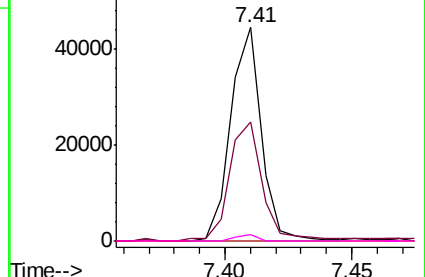
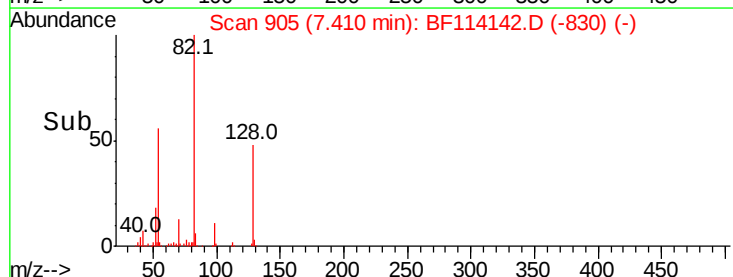


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

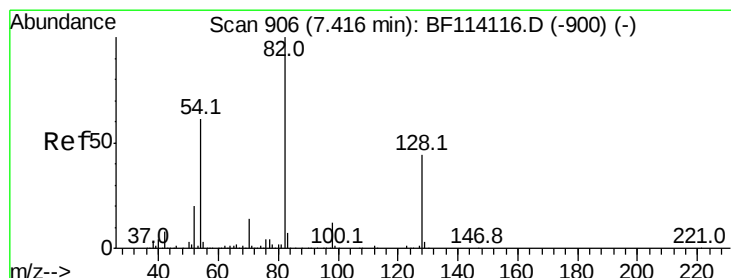
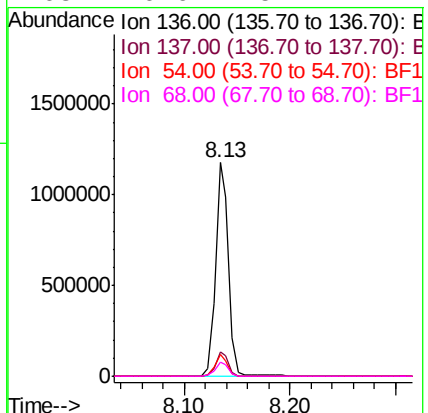
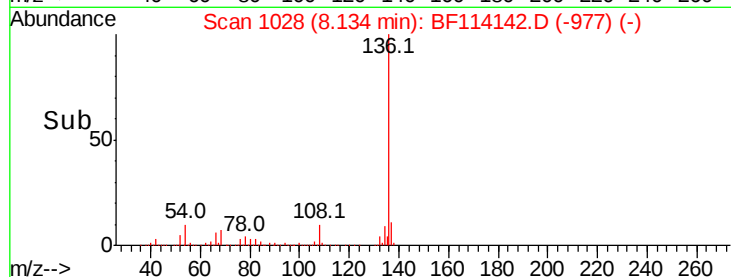
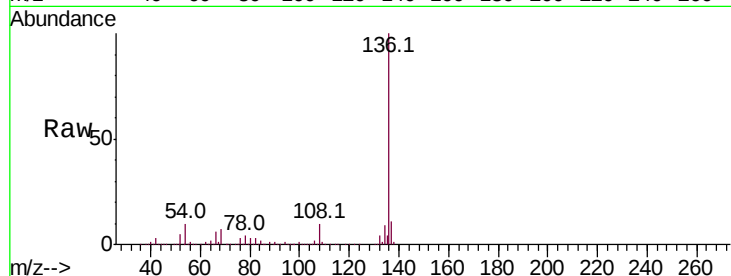




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1028
Delta R.T. -0.00 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

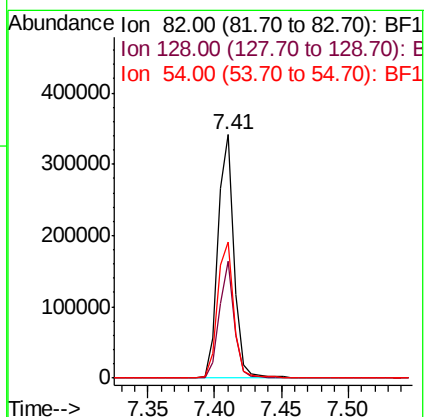
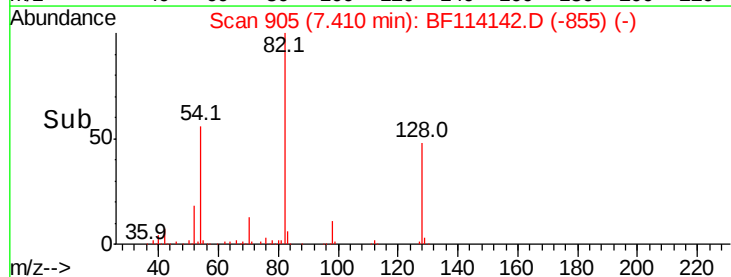
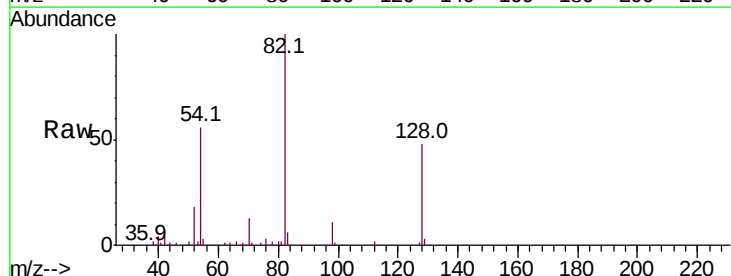
Instrument :
BNA_F
ClientSampleId :
SU-02-050919-A

Tot Ion:136	Resp: 1023530
Ion Ratio	Lower Upper
136 100	
137 11.2	8.8 13.2
54 10.2	7.8 11.8
68 6.6	5.1 7.7



#23
Nitrobenzene-d5
Concen: 16.032 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Tgt Ion: 82	Resp: 292390
Ion Ratio	Lower Upper
82 100	
128 48.0	35.5 53.3
54 56.0	48.5 72.7





#25

Isophorone

Concen: 8.644 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

Instrument :

BNA_F

ClientSampleId :

SU-02-050919-A

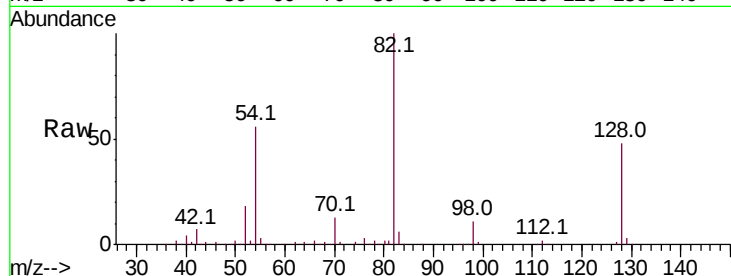
Tot Ion: 82 Resp: 292388

Ion Ratio Lower Upper

82 100

95 0.1 5.6 8.4#

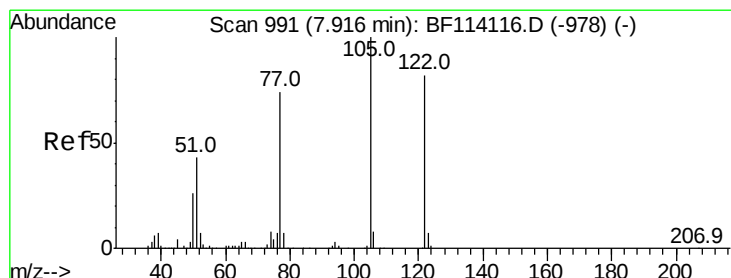
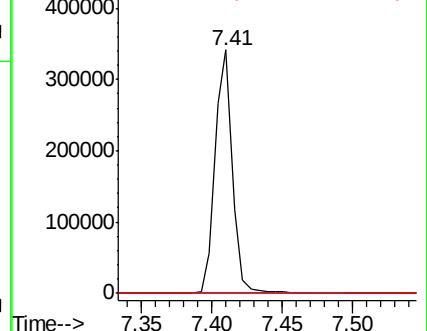
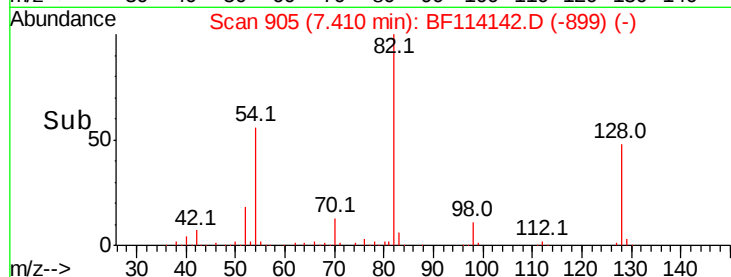
138 0.0 14.8 22.2#



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



#32

Benzoic acid

Concen: 7.057 ng

RT: 7.88 min Scan# 985

Delta R.T. -0.03 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

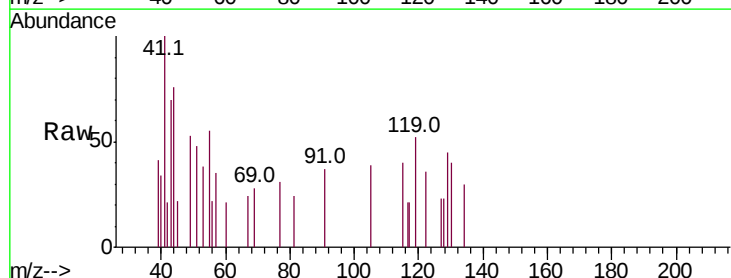
Tgt Ion: 122 Resp: 431

Ion Ratio Lower Upper

122 100

105 108.0 99.9 139.9

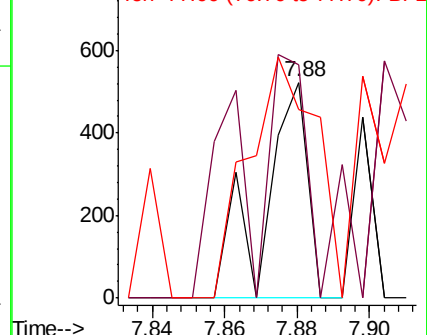
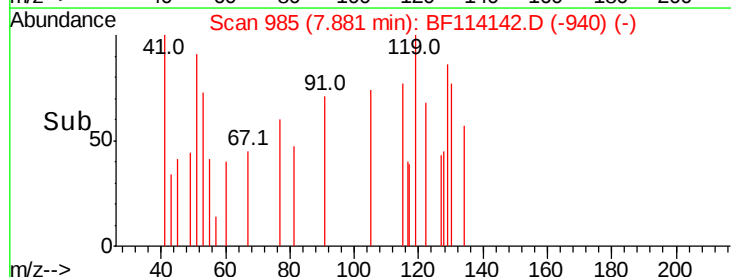
77 87.7 69.4 109.4

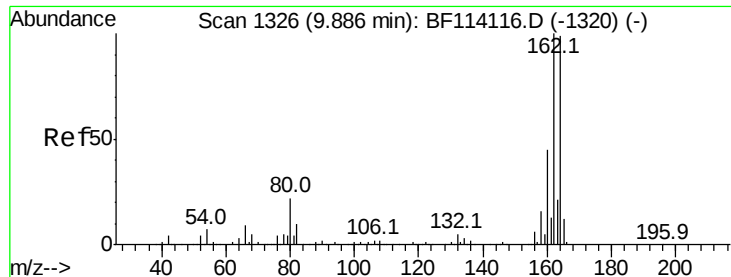


Abundance Ion 122.00 (121.70 to 122.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 77.00 (76.70 to 77.70): BF1

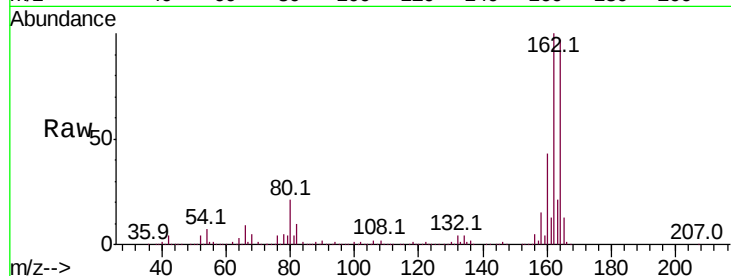




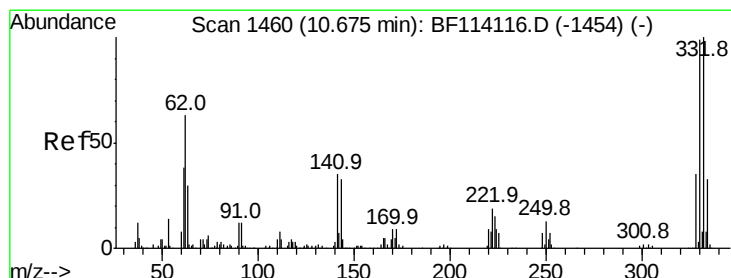
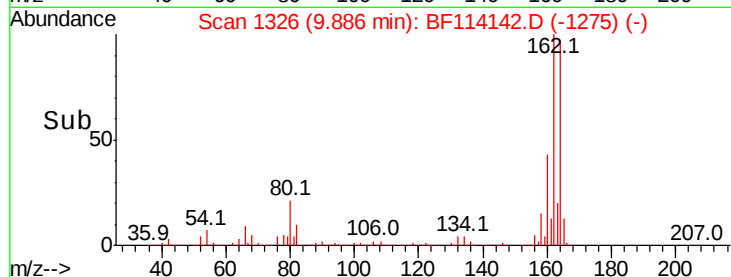
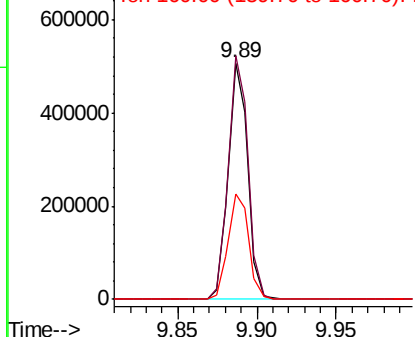
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.00 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Instrument :
BNA_F
ClientSampleId :
SU-02-050919-A

Tot Ion:164 Resp: 430492
Ion Ratio Lower Upper
164 100
162 103.1 80.6 120.8
160 44.7 36.5 54.7

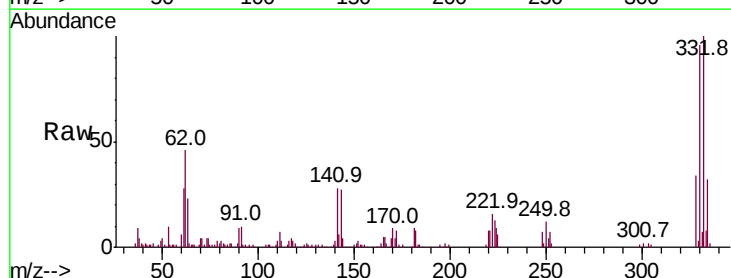


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

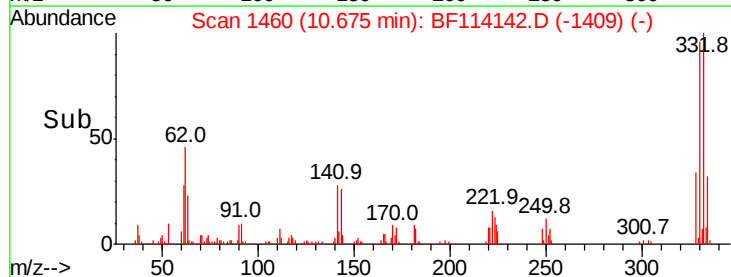
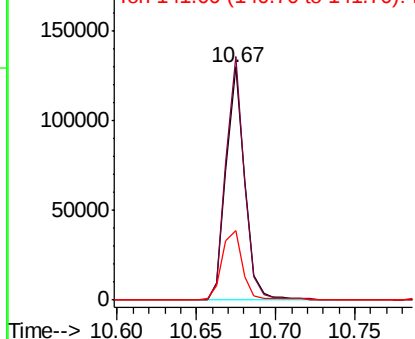


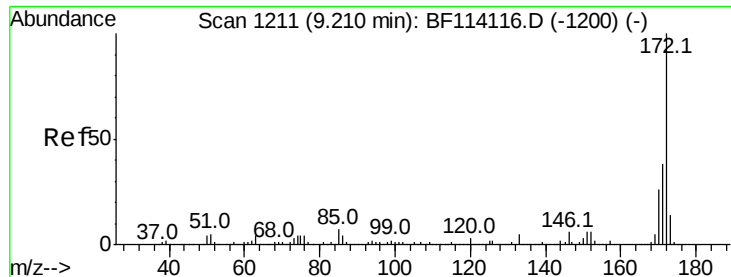
#42
2,4,6-Tribromophenol
Concen: 24.018 ng
RT: 10.67 min Scan# 1460
Delta R.T. -0.00 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Tgt Ion:330 Resp: 106893
Ion Ratio Lower Upper
330 100
332 102.7 81.4 122.2
141 33.8 26.6 40.0



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

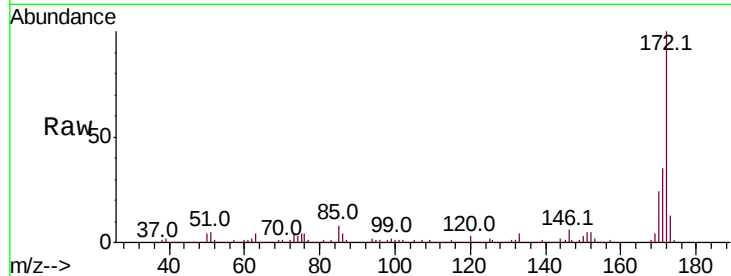




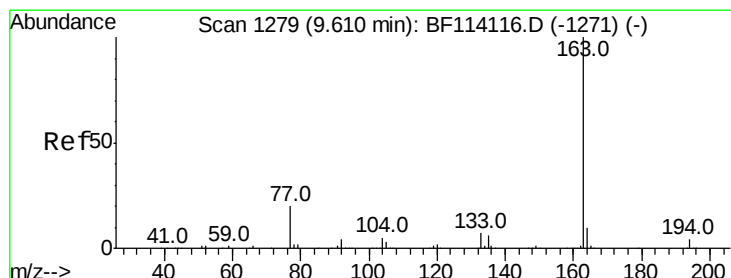
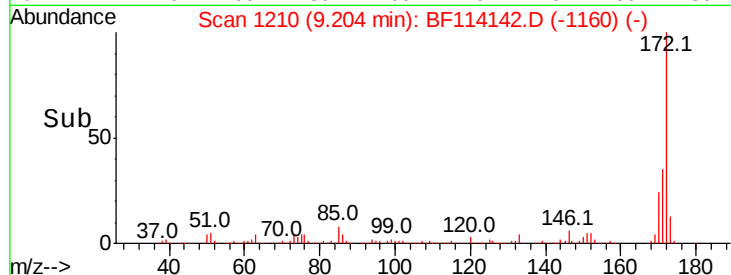
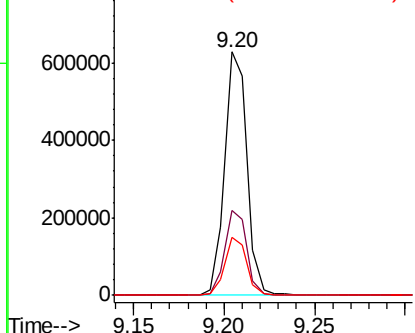
#45
2-Fluorobiphenyl
Concen: 19.017 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.01 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Instrument :
BNA_F
ClientSampleId :
SU-02-050919-A

Tot Ion:172 Resp: 541221
Ion Ratio Lower Upper
172 100
171 35.0 30.7 46.1
170 23.7 20.5 30.7

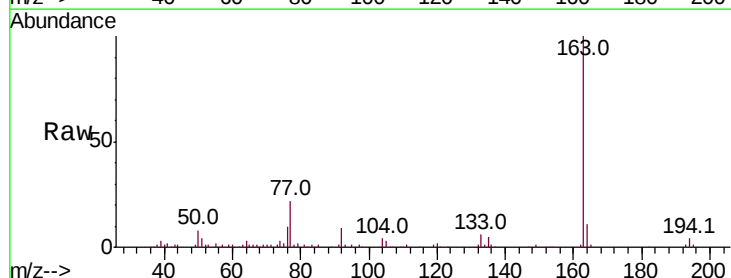


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

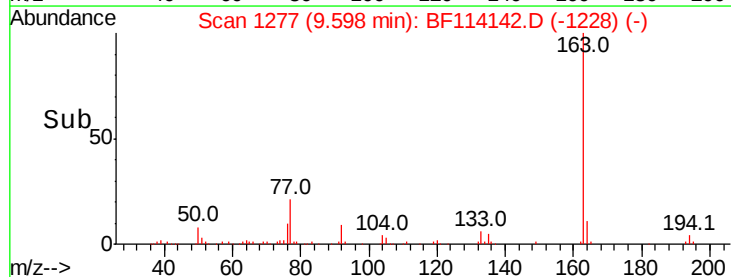
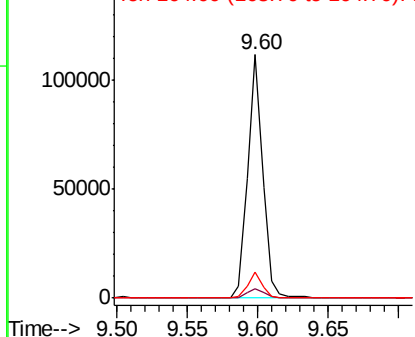


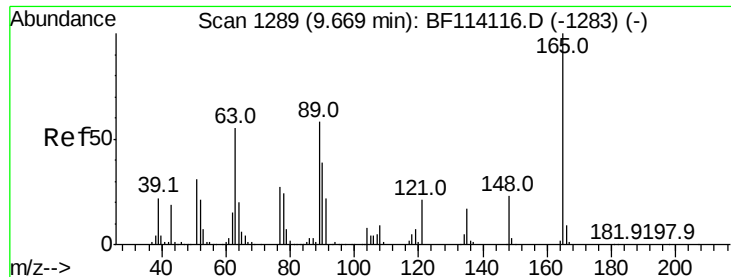
#50
Dimethylphthalate
Concen: 2.640 ng
RT: 9.60 min Scan# 1277
Delta R.T. -0.01 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Tgt Ion:163 Resp: 83419
Ion Ratio Lower Upper
163 100
194 4.1 3.4 5.0
164 10.8 8.2 12.2



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: 8.092 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.22 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

Instrument :

BNA_F

ClientSampleId :

SU-02-050919-A

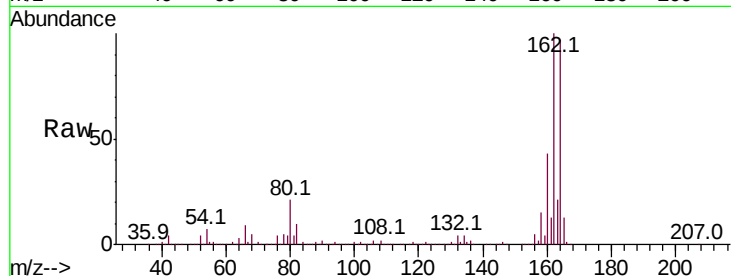
Tot Ion:165 Resp: 56723

Ion Ratio Lower Upper

165 100

63 1.3 50.2 75.4#

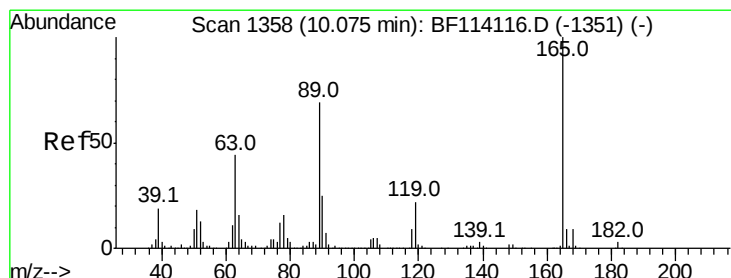
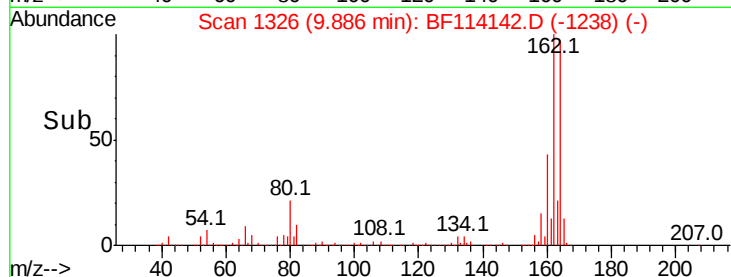
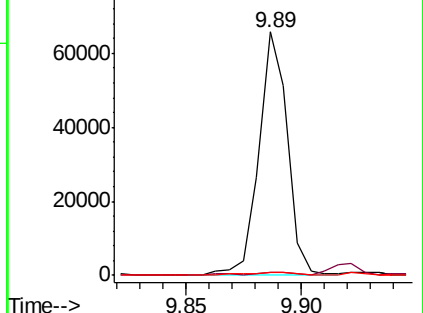
89 1.4 46.6 69.8#



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: 5.962 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.19 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

Tgt Ion:165 Resp: 56723

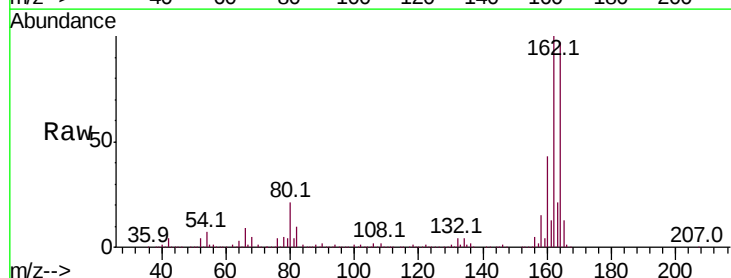
Ion Ratio Lower Upper

165 100

63 1.3 35.5 53.3#

89 1.4 55.2 82.8#

182 0.0 2.2 3.2#

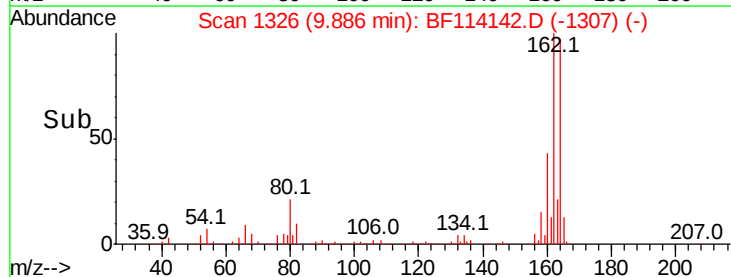
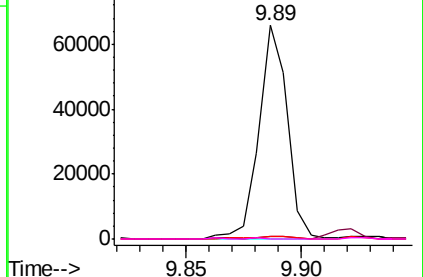


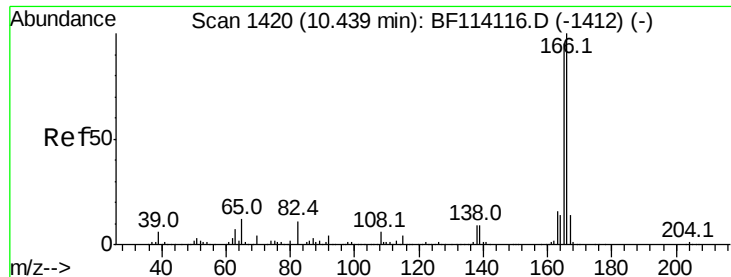
Abundance Ion 165.00 (164.70 to 165.70): E

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





#58

Fluorene

Concen: 2.188 ng

RT: 10.43 min Scan# 1419

Delta R.T. -0.01 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

Instrument :

BNA_F

ClientSampleId :

SU-02-050919-A

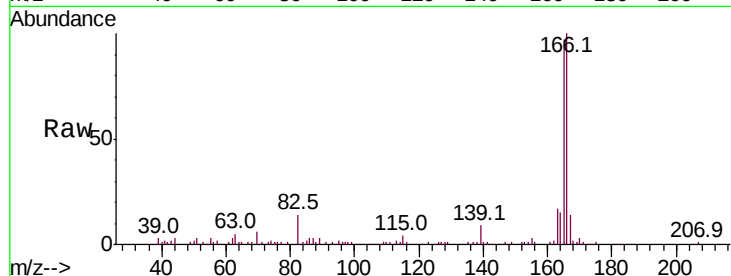
Tot Ion:166 Resp: 64744

Ion Ratio Lower Upper

166 100

165 96.9 76.1 114.1

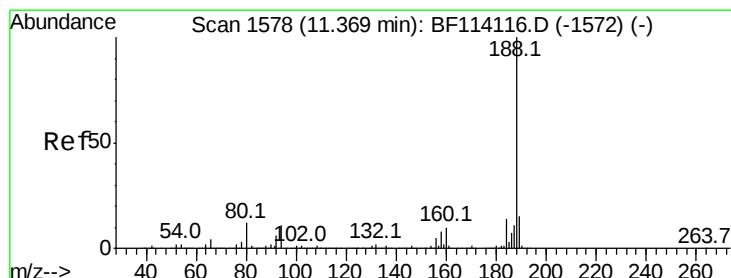
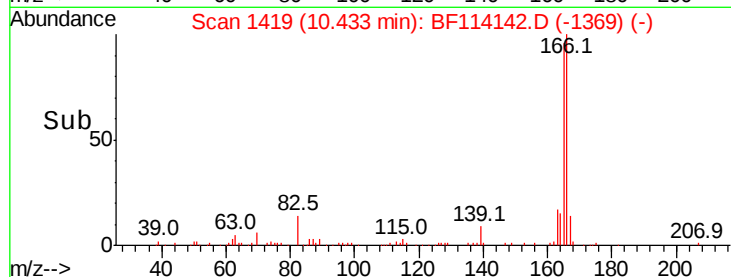
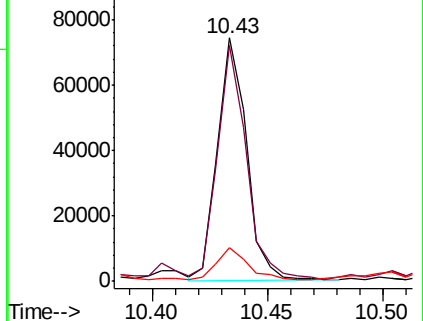
167 14.1 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1579

Delta R.T. 0.01 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

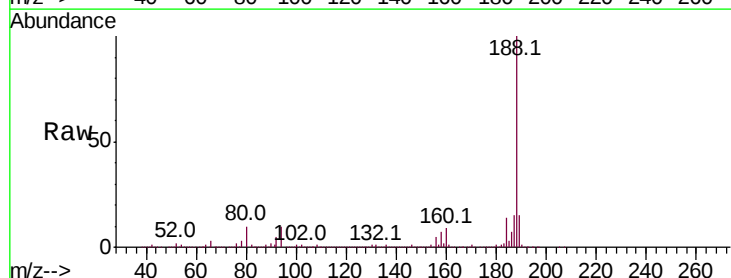
Tgt Ion:188 Resp: 828382

Ion Ratio Lower Upper

188 100

94 9.6 8.4 12.6

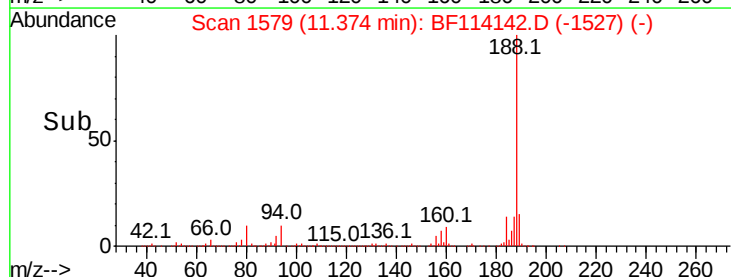
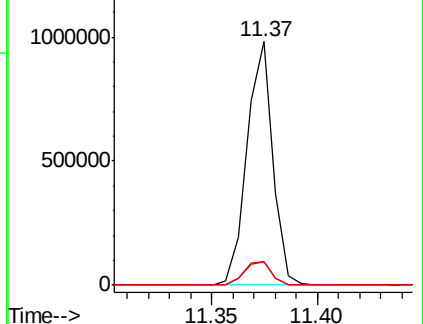
80 9.8 9.2 13.8

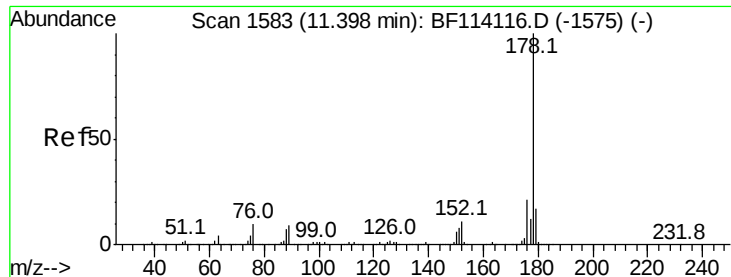


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

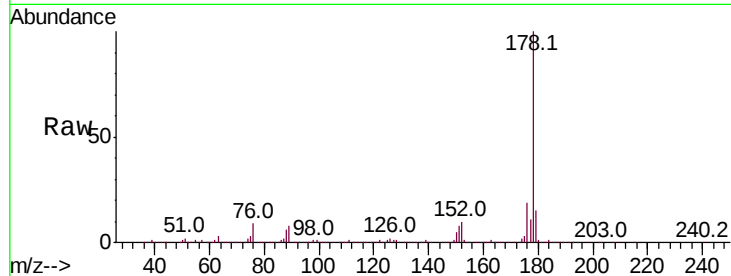




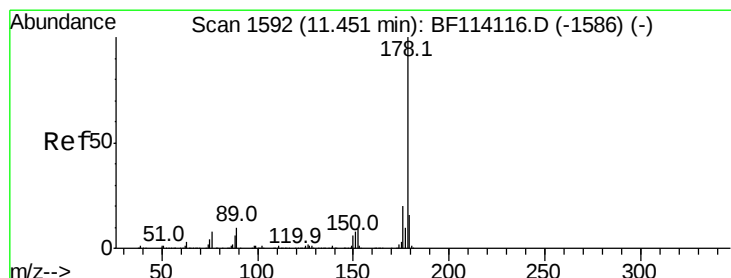
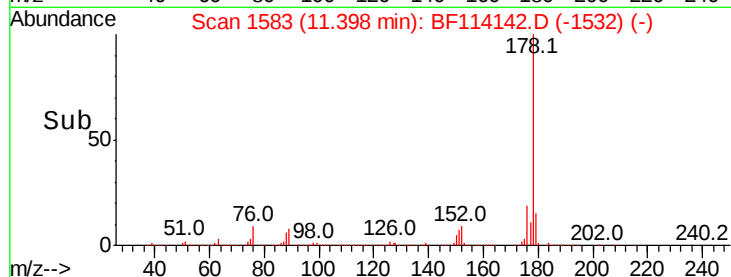
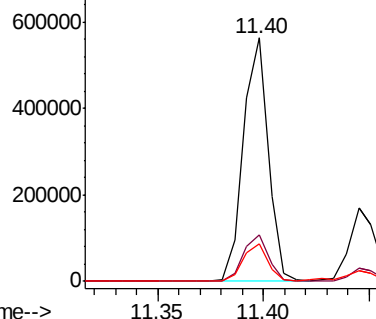
#71
Phenanthrene
Concen: 11.488 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.00 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Instrument :
BNA_F
ClientSampleId :
SU-02-050919-A

Tot Ion:178 Resp: 462996
Ion Ratio Lower Upper
178 100
176 19.0 16.4 24.6
179 15.4 13.2 19.8

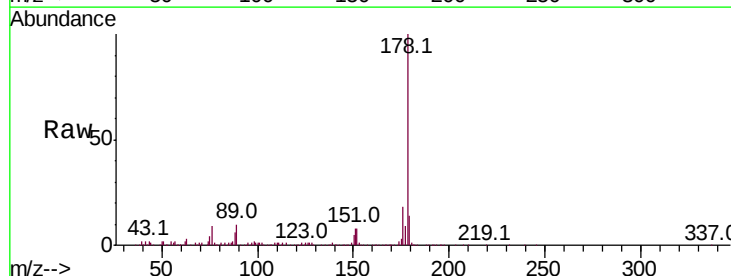


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

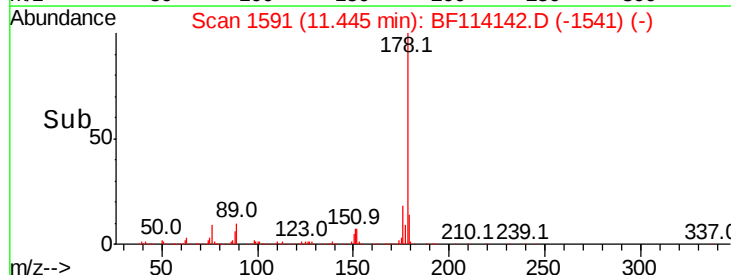
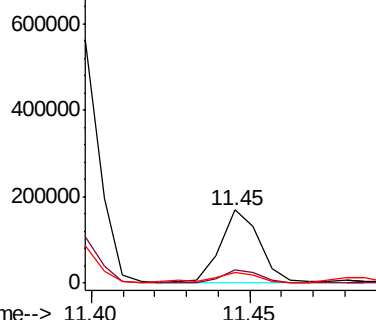


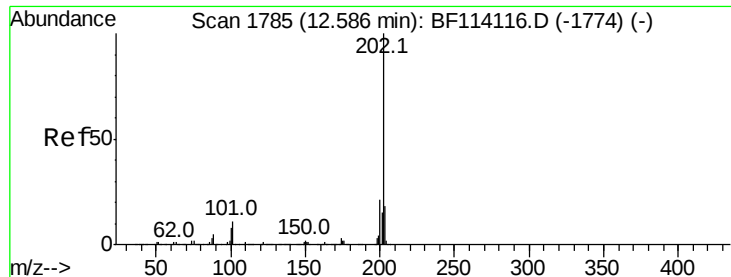
#72
Anthracene
Concen: 3.466 ng
RT: 11.45 min Scan# 1591
Delta R.T. -0.01 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Tgt Ion:178 Resp: 140307
Ion Ratio Lower Upper
178 100
176 17.6 15.8 23.8
179 14.1 13.0 19.4



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





#75

Fluoranthene

Concen: 14.351 ng

RT: 12.59 min Scan# 1785

Delta R.T. -0.00 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

Instrument :

BNA_F

ClientSampleId :

SU-02-050919-A

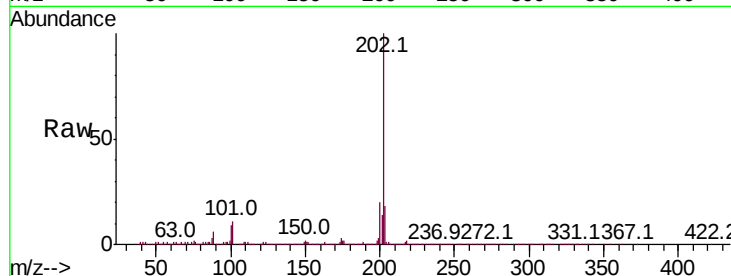
Tot Ion:202 Resp: 622814

Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.0

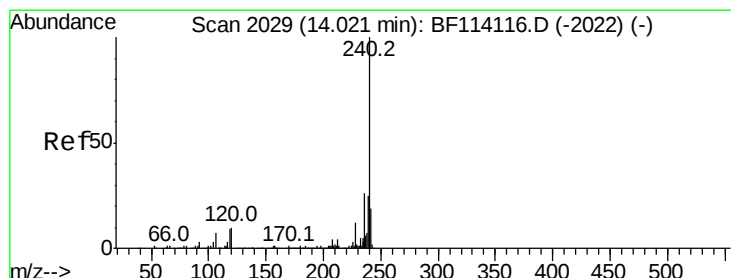
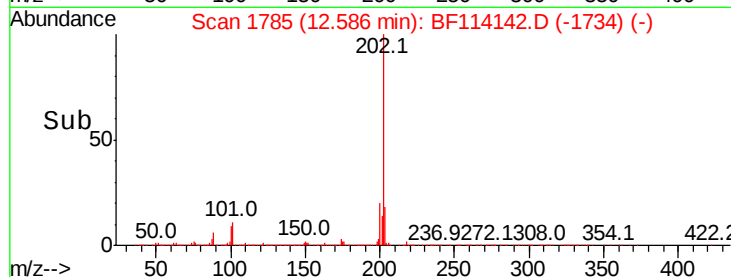
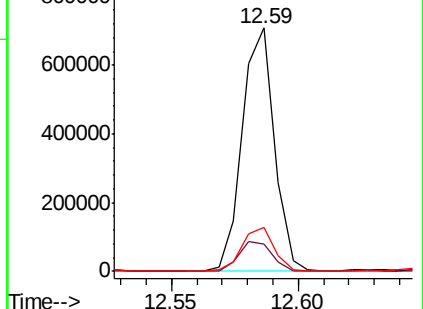
203 17.9 0.0 38.4



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: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

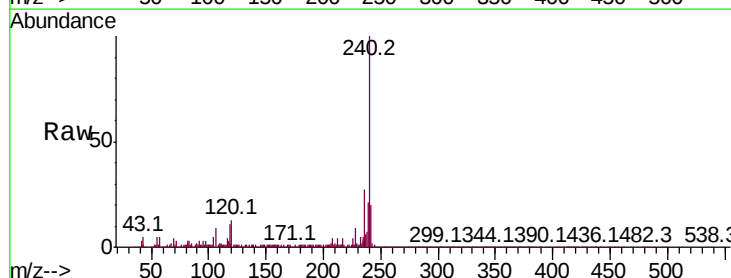
Tgt Ion:240 Resp: 586540

Ion Ratio Lower Upper

240 100

120 13.1 8.3 12.5#

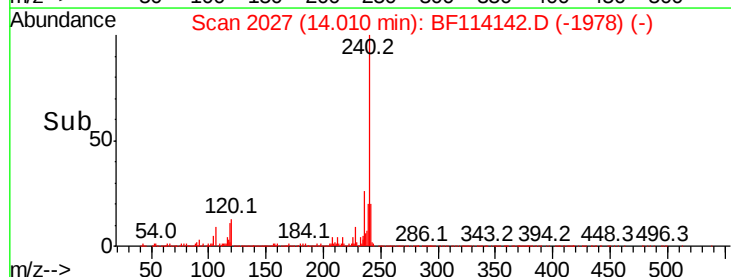
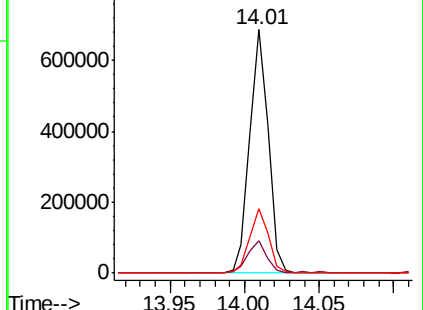
236 26.6 20.8 31.2

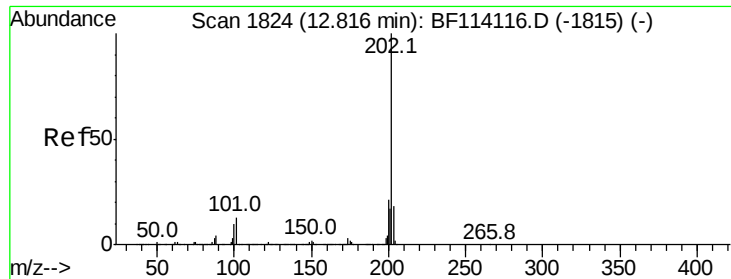


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

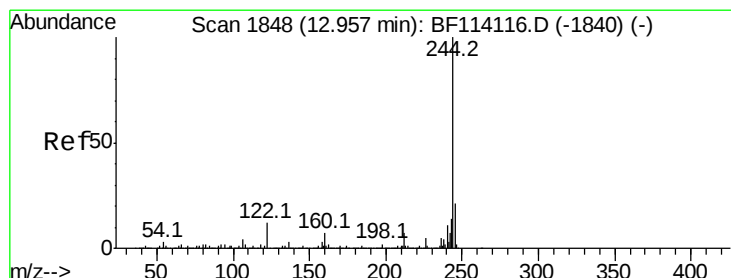
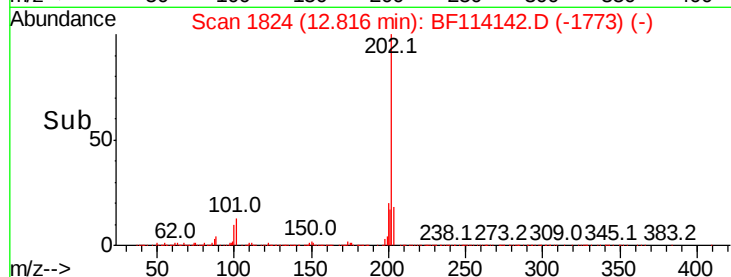
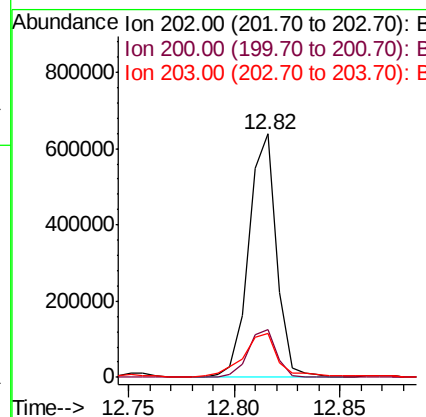
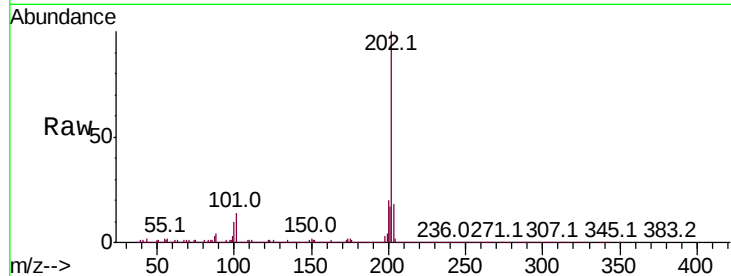




#78
Pvrene
Concen: 12.280 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.00 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

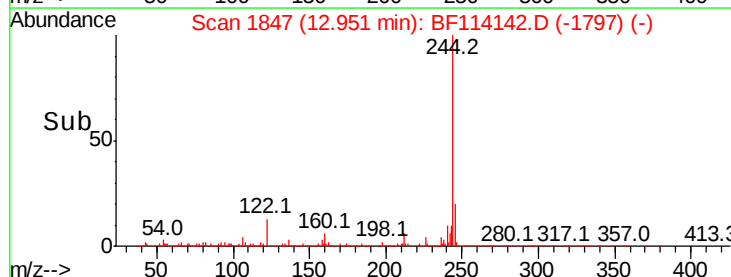
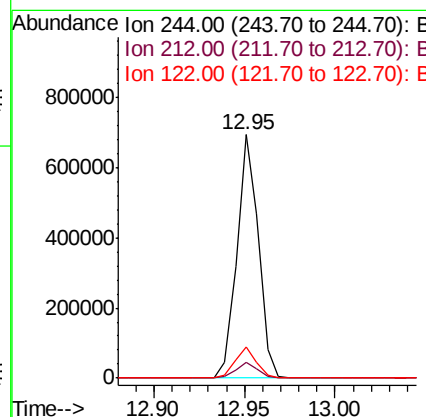
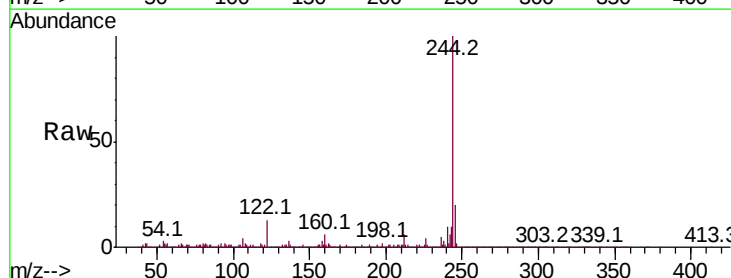
Instrument :
BNA_F
ClientSampleId :
SU-02-050919-A

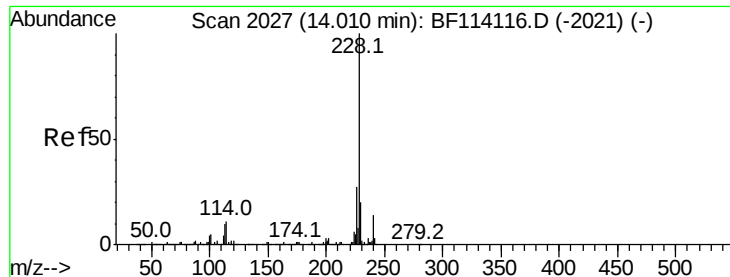
Tot Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.9	25.3
203	18.3	14.5	21.7



#79
Terphenyl-d14
Concen: 20.084 ng
RT: 12.95 min Scan# 1847
Delta R.T. -0.01 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.8	8.6
122	13.0	9.4	14.2





#81

Benzo(a)anthracene

Concen: 6.636 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

Instrument :

BNA_F

ClientSampleId :

SU-02-050919-A

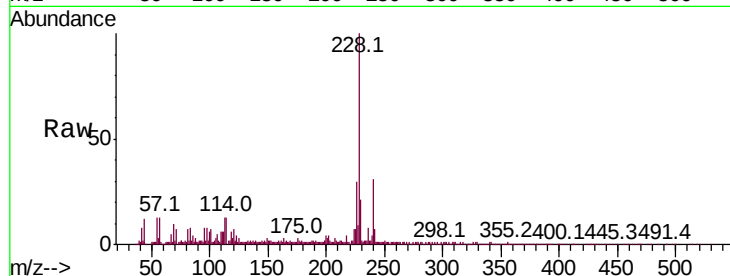
Tot Ion:228 Resp: 251733

Ion Ratio Lower Upper

228 100

226 29.9 22.2 33.2

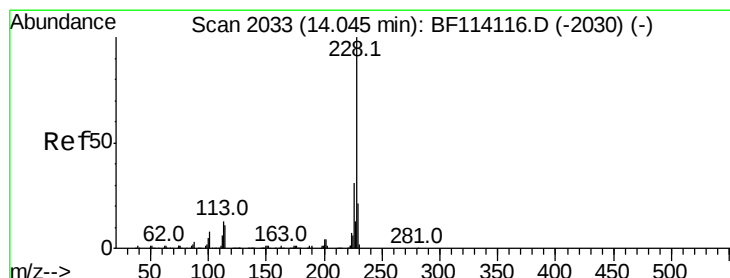
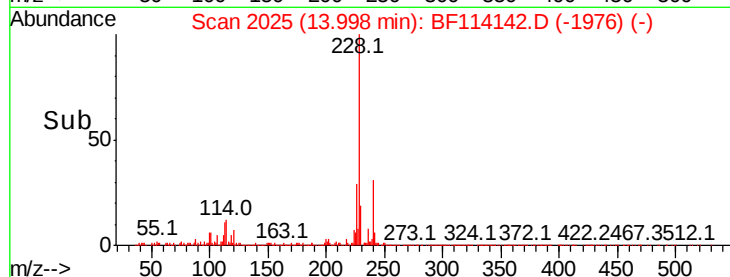
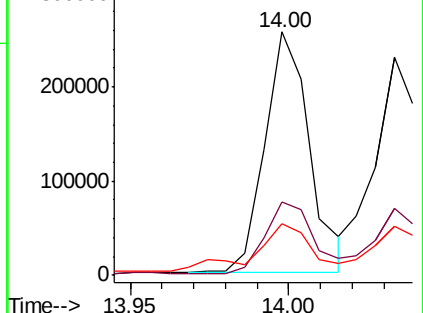
229 21.1 16.4 24.6



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: 6.017 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

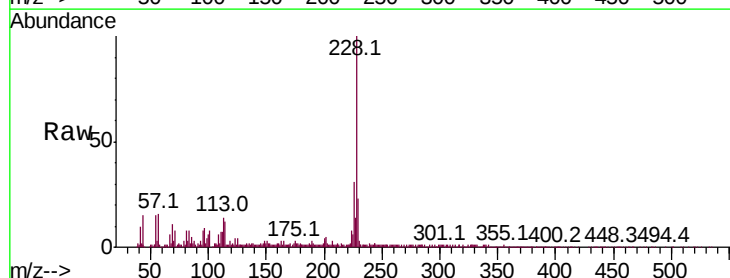
Tgt Ion:228 Resp: 223772

Ion Ratio Lower Upper

228 100

226 31.0 25.0 37.6

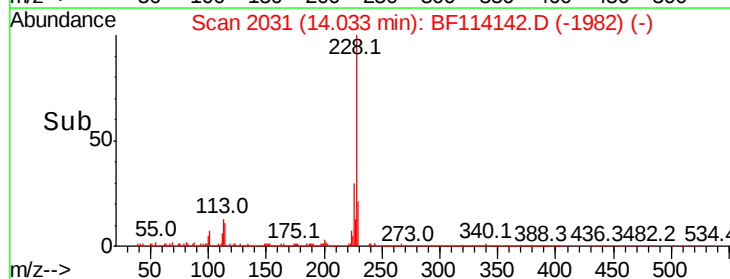
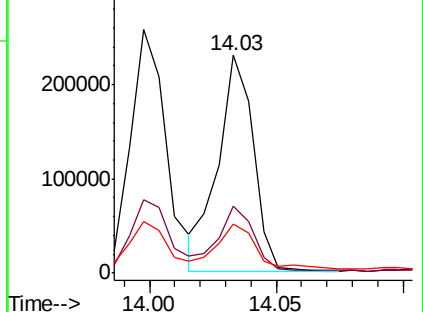
229 22.6 17.0 25.6

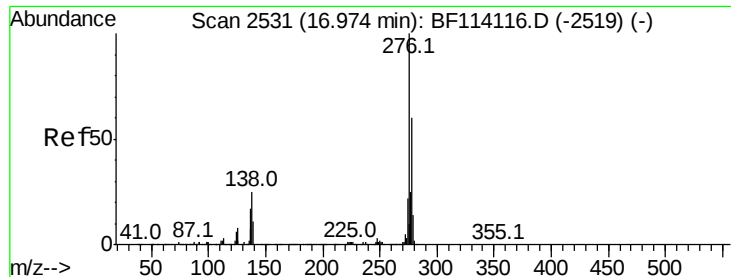


Abundance Ion 228.00 (227.70 to 228.70): E

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: 2.984 ng

RT: 16.93 min Scan# 2524

Delta R.T. -0.04 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

Instrument :

BNA_F

ClientSampleId :

SU-02-050919-A

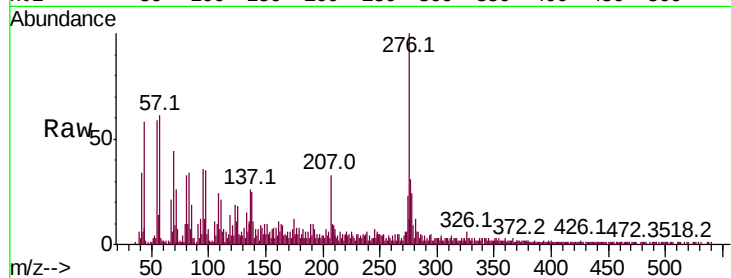
Tot Ion:276 Resp: 98079

Ion Ratio Lower Upper

276 100

138 24.1 20.2 30.2

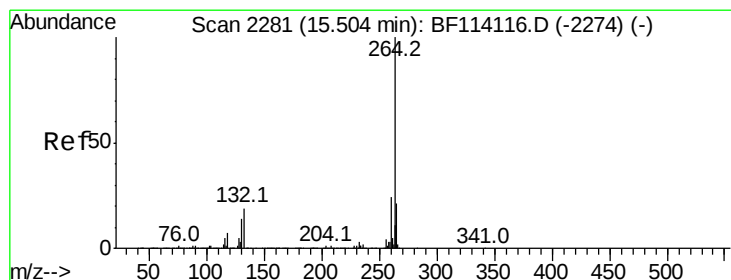
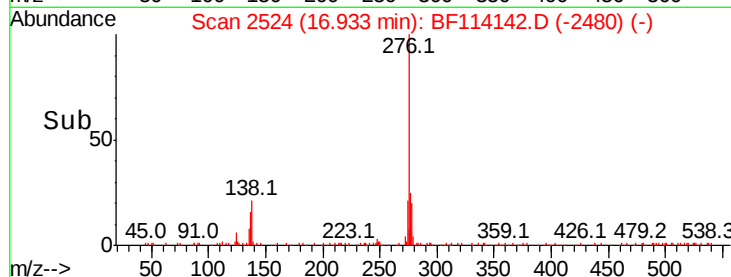
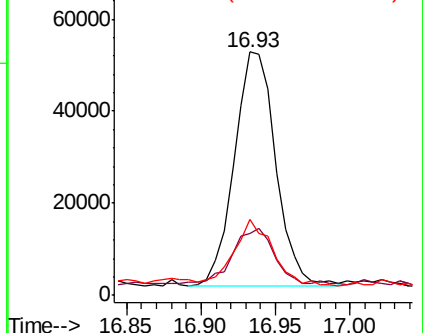
277 27.1 20.0 30.0



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: 15.47 min Scan# 2276

Delta R.T. -0.03 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

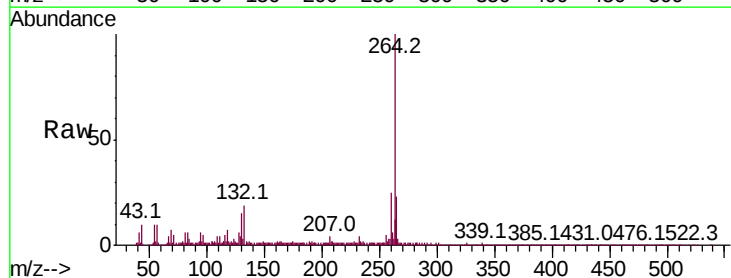
Tgt Ion:264 Resp: 517203

Ion Ratio Lower Upper

264 100

260 24.6 19.4 29.0

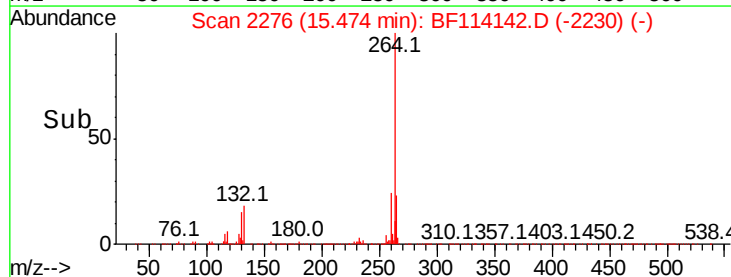
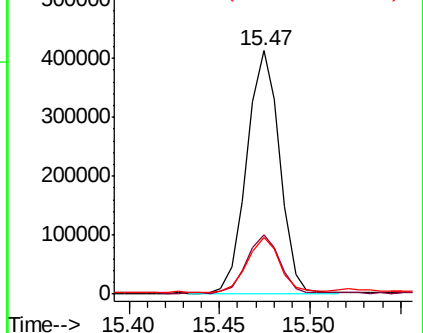
265 23.2 16.9 25.3

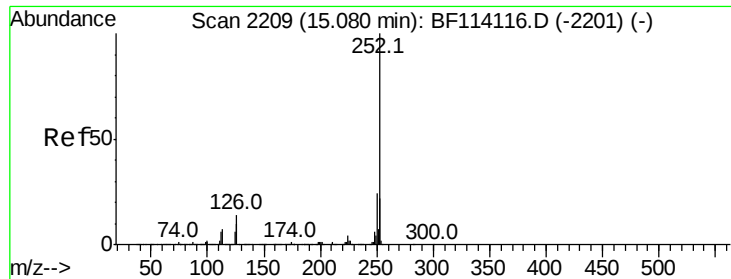


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

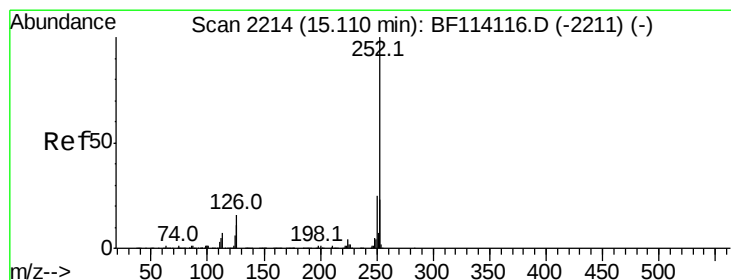
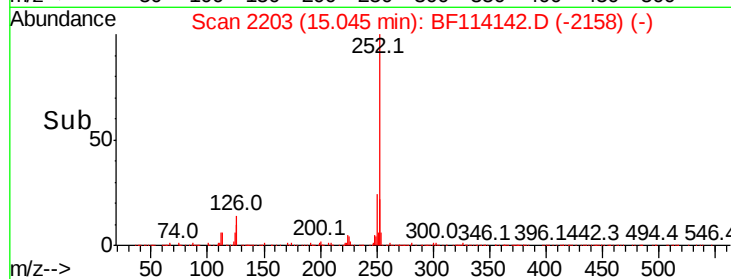
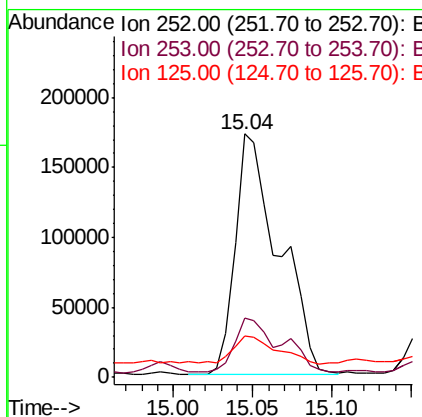
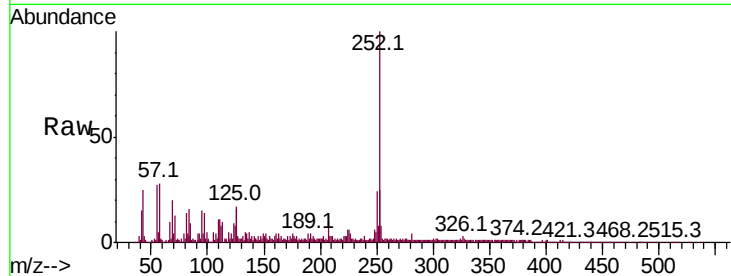




#88
Benzo(b)fluoranthene
Concen: 9.929 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.04 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

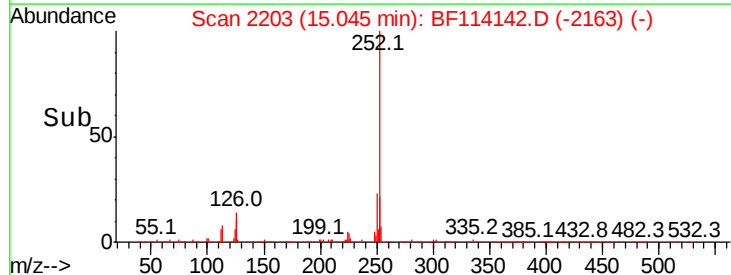
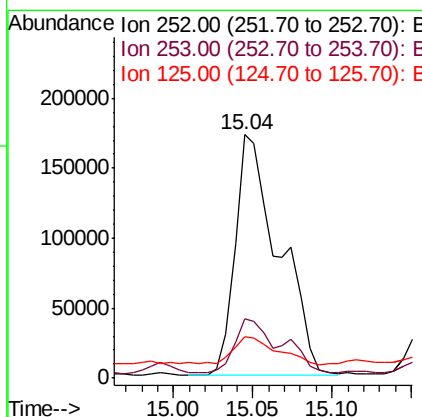
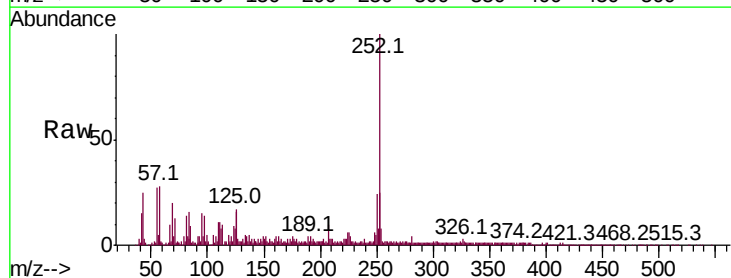
Instrument :
BNA_F
ClientSampleId :
SU-02-050919-A

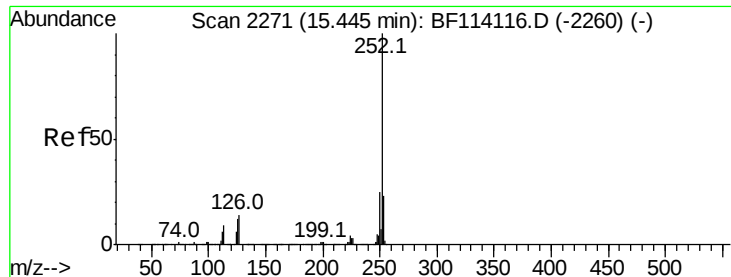
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.8	26.8
125	16.8	8.3	12.5



#89
Benzo(k)fluoranthene
Concen: 10.809 ng
RT: 15.04 min Scan# 2203
Delta R.T. -0.06 min
Lab File: BF114142.D
Acq: 11 May 2019 00:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.2	27.2
125	16.8	8.6	13.0





#90

Benzo(a)pyrene

Concen: 5.896 ng

RT: 15.41 min Scan# 2265

Delta R.T. -0.04 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

Instrument :

BNA_F

ClientSampleId :

SU-02-050919-A

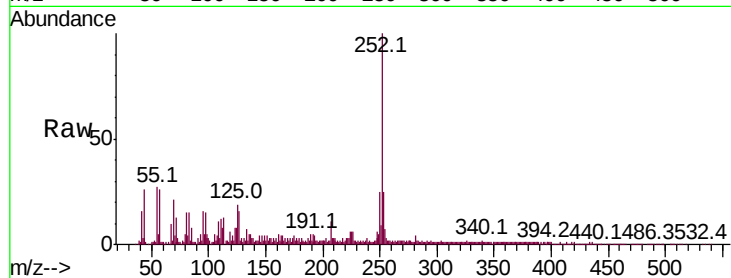
Tot Ion:252 Resp: 171944

Ion Ratio Lower Upper

252 100

253 25.2 18.1 27.1

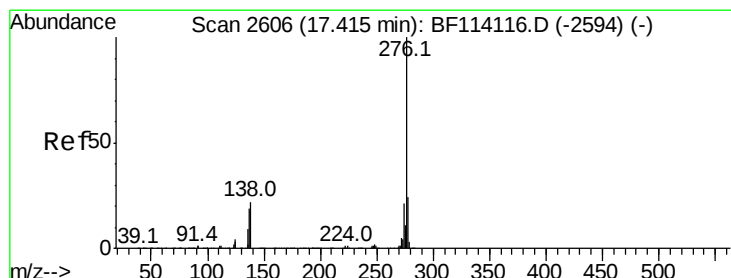
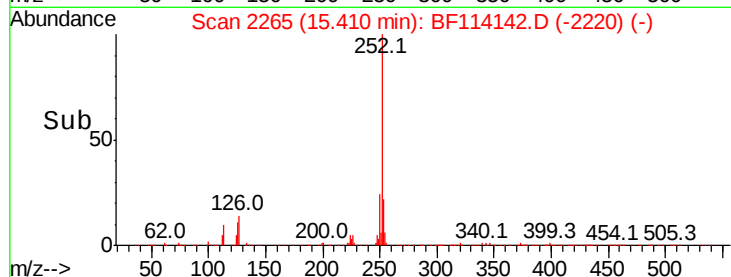
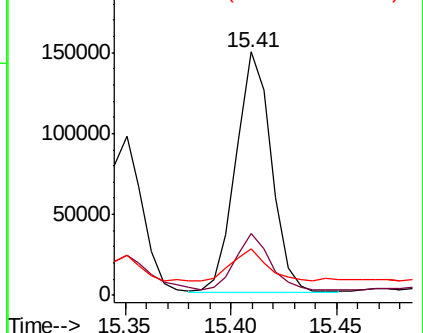
125 18.8 9.5 14.3#



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



#92

Benzo(g,h,i)perylene

Concen: 3.901 ng

RT: 17.37 min Scan# 2599

Delta R.T. -0.04 min

Lab File: BF114142.D

Acq: 11 May 2019 00:59

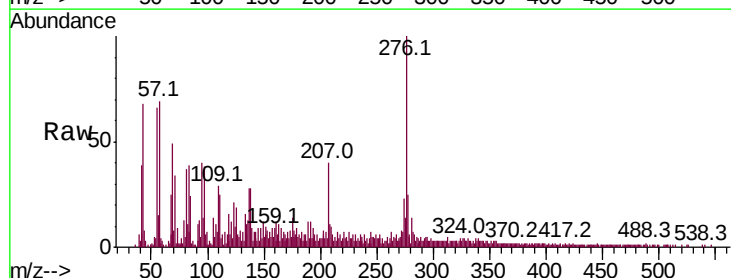
Tgt Ion:276 Resp: 94724

Ion Ratio Lower Upper

276 100

277 25.3 19.0 28.4

138 28.5 17.8 26.6#



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

