

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081519\
 Data File : BN007210.D
 Acq On : 15 Aug 2019 23:22
 Operator : HP/JU
 Sample : K4282-15
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 16 07:07:17 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 13 12:12:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	7470	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	28579	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	16325	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	37573	0.40	ng	0.00
26) Chrysene-d12	21.03	240	36561	0.40	ng	-0.02
32) Perylene-d12	23.15	264	40912	0.40	ng	-0.02

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	4819	0.27	ng	0.00
4) Phenol-d6	6.61	99	6538	0.29	ng	0.00
7) Nitrobenzene-d5	8.55	82	4789	0.21	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	9696	0.18	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	1569	0.18	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	1046	0.04	ng	0.00
24) Fluoranthene-d10	18.86	212	16836	0.13	ng	-0.01
28) Terphenyl-d14	19.48	244	12044	0.12	ng	-0.02

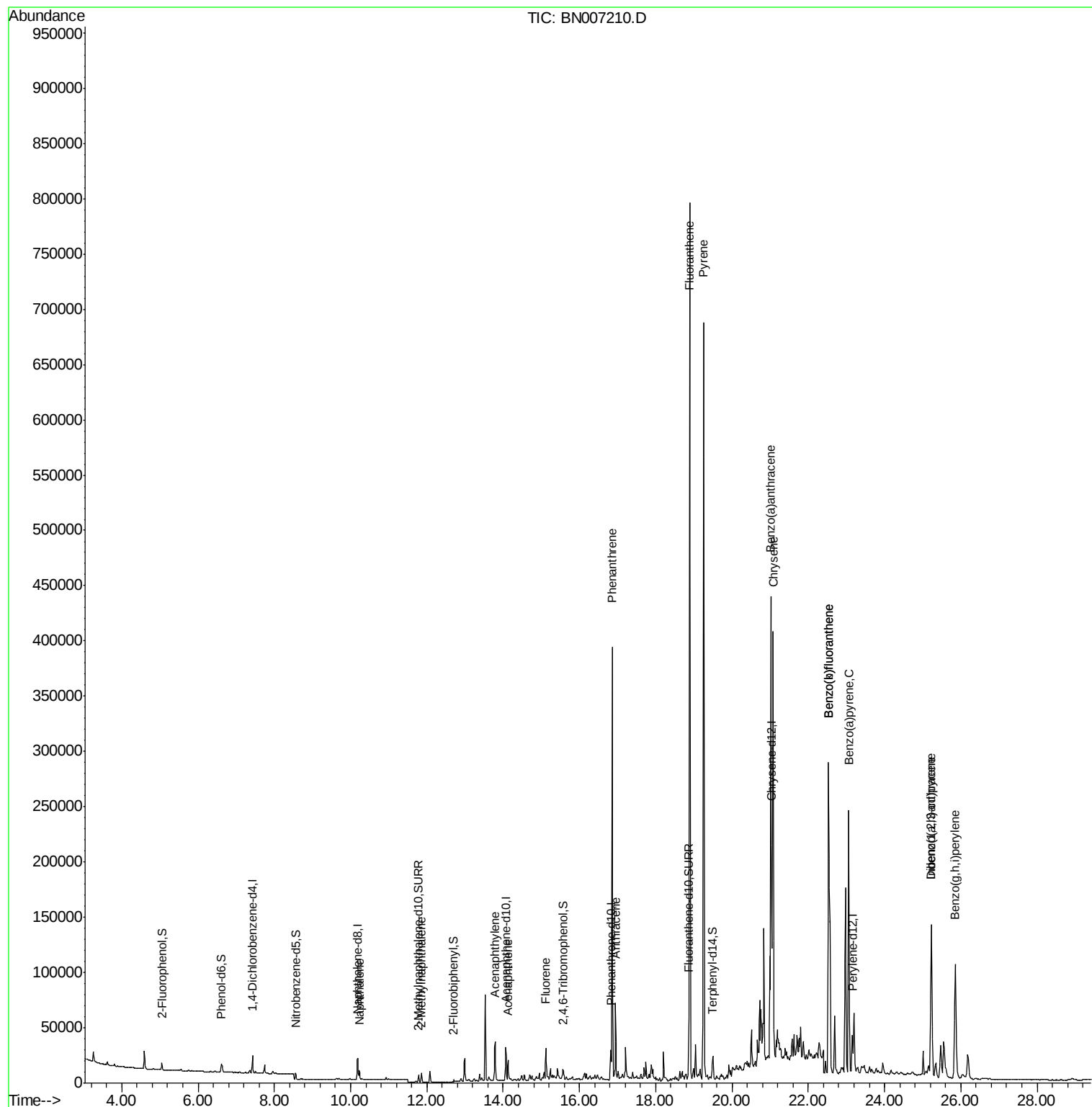
Target Compounds				Qvalue		
8) Naphthalene	10.23	128	11553	0.144	ng	98
11) 2-Methylnaphthalene	11.86	142	6433	0.113	ng	96
15) Acenaphthylene	13.79	152	47226	0.553	ng	100
16) Acenaphthene	14.13	154	9542	0.175	ng	98
17) Fluorene	15.12	166	17918	0.219	ng	93
22) Phenanthrene	16.86	178	446297	3.963	ng	100
23) Anthracene	16.95	178	66813	0.649	ng	# 94
25) Fluoranthene	18.89	202	726066	5.041	ng	99
27) Pyrene	19.26	202	658494	5.136	ng	96
29) Benzo(a)anthracene	21.02	228	348142	2.604	ng	94
30) Chrysene	21.08	228	357563	2.753	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	208342	1.455	ng	98
33) Benzo(b)fluoranthene	22.53	252	447851	3.192	ng	99
34) Benzo(k)fluoranthene	22.53	252	447851	3.232	ng	99
35) Benzo(a)pyrene	23.06	252	307079	2.414	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	57849	0.456	ng	# 90
37) Benzo(a,h,i)perylene	25.85	276	202082	1.548	ng	99

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

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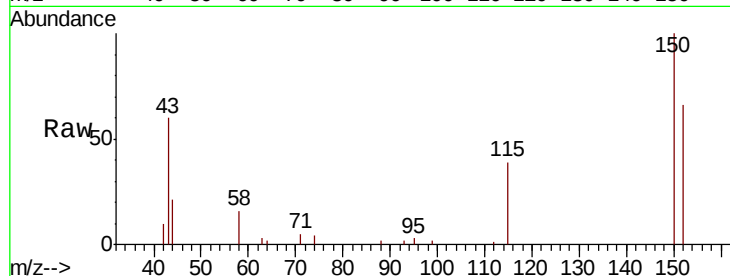


#1

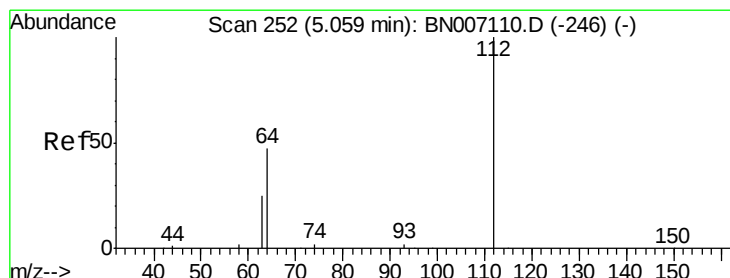
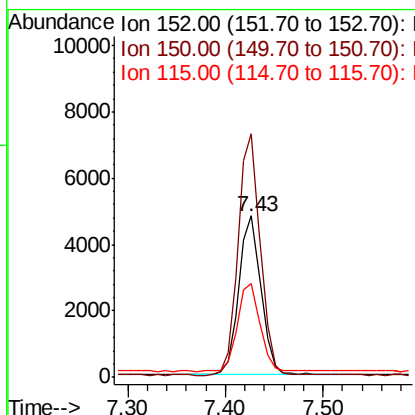
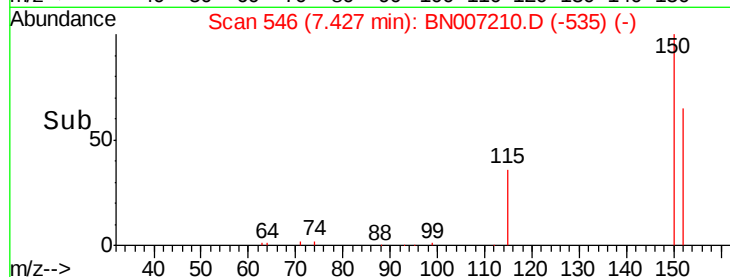
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.43 min Scan# 546
 Delta R.T. -0.01 min
 Lab File: BN007210.D
 Acq: 15 Aug 2019 23:22

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:152 Resp: 7470
 Ion Ratio Lower Upper
 152 100
 150 150.8 121.7 182.5
 115 58.4 46.2 69.4



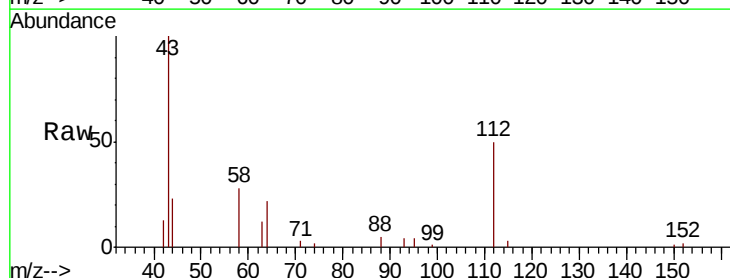
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



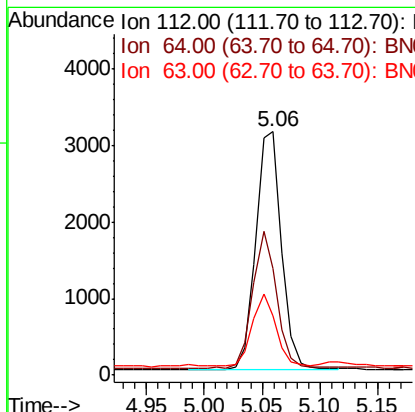
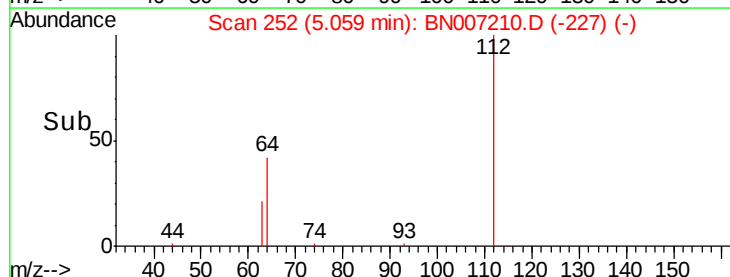
#3

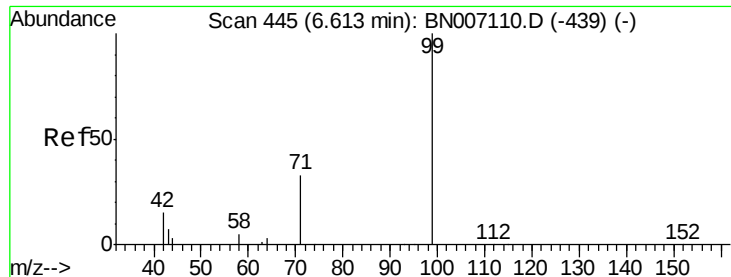
2-Fluorophenol
 Concen: 0.268 ng
 RT: 5.06 min Scan# 252
 Delta R.T. -0.00 min
 Lab File: BN007210.D
 Acq: 15 Aug 2019 23:22

Tgt Ion:112 Resp: 4819
 Ion Ratio Lower Upper
 112 100
 64 52.6 42.6 63.8
 63 27.9 22.2 33.2



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BNC
 Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.294 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Instrument :

BNA_N

ClientSampleId :

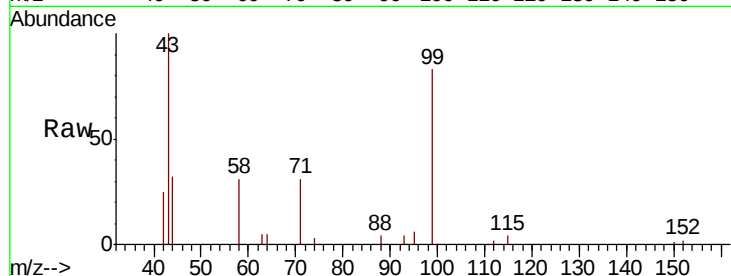
Tot Ion: 99 Resp: 6538

Ion Ratio Lower Upper

99 100

42 22.2 15.8 23.6

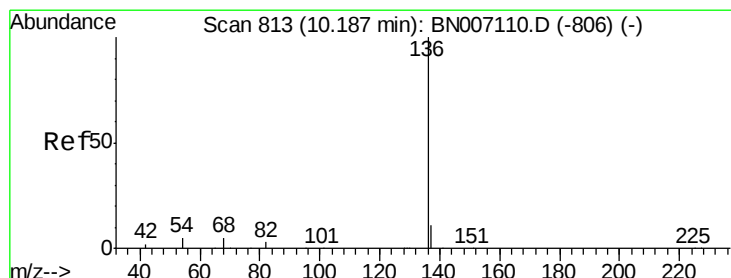
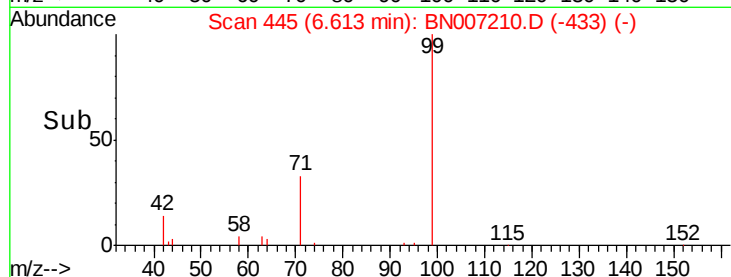
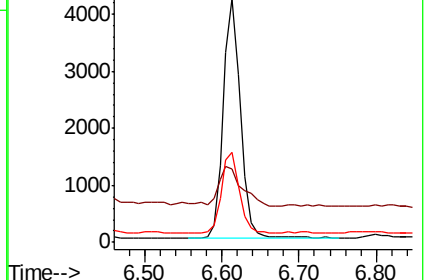
71 35.8 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007210.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007210.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007210.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Tgt Ion: 136 Resp: 28579

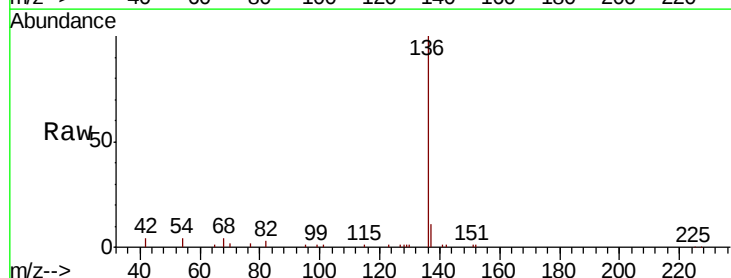
Ion Ratio Lower Upper

136 100

137 11.5 9.4 14.0

54 4.4 6.6 9.8#

68 4.4 6.0 9.0#

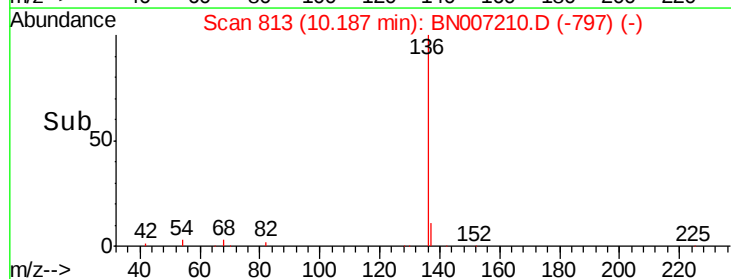
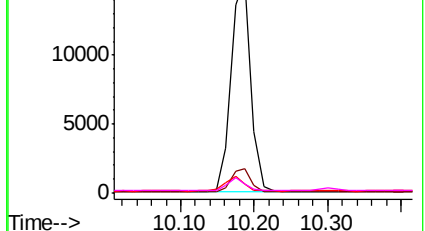


Abundance Ion 136.00 (135.70 to 136.70): BN007210.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007210.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007210.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007210.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.208 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

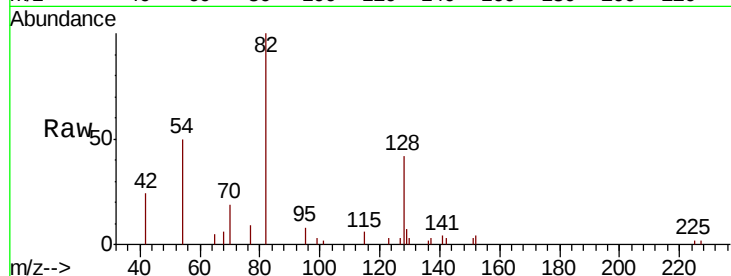
Instrument :

BNA_N

ClientSampleId :

Tot Ion: 82 Resp: 4789

Ion	Ratio	Lower	Upper
82	100		
128	41.9	34.6	51.8
54	49.7	36.2	54.4

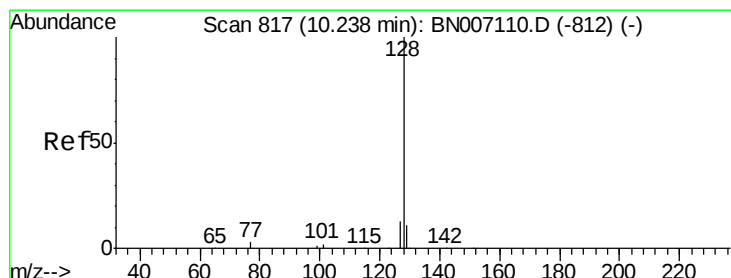
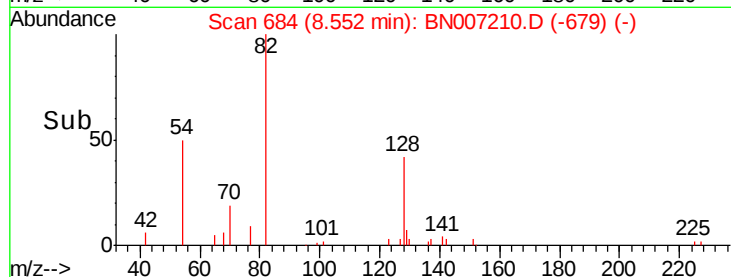
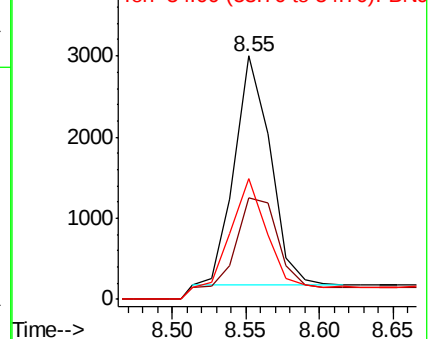


Abundance

Ion 82.00 (81.70 to 82.70): BN0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BN0



#8

Naphthalene

Concen: 0.144 ng

RT: 10.23 min Scan# 816

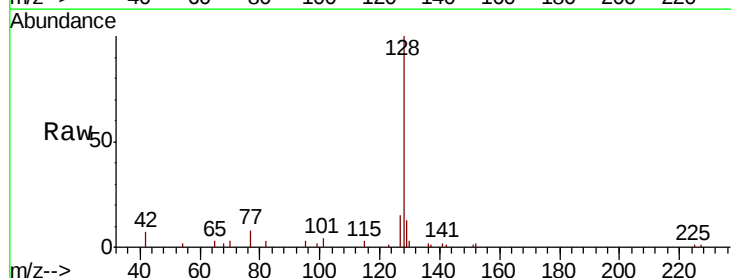
Delta R.T. -0.01 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Tgt Ion: 128 Resp: 11553

Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.4	14.2
127	14.5	11.0	16.6

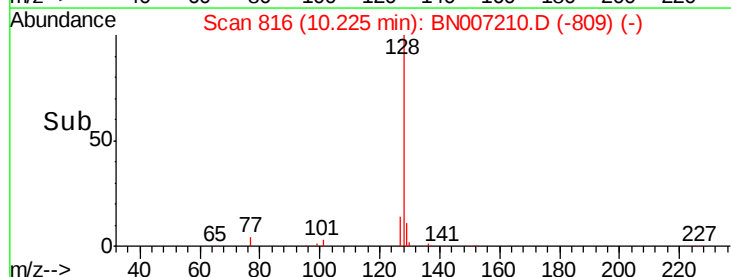
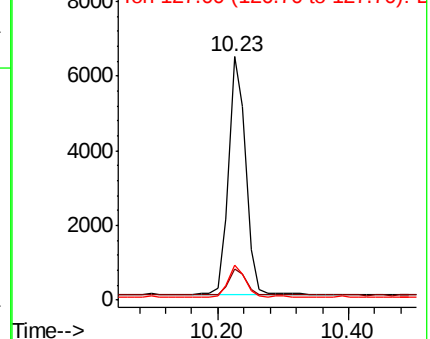


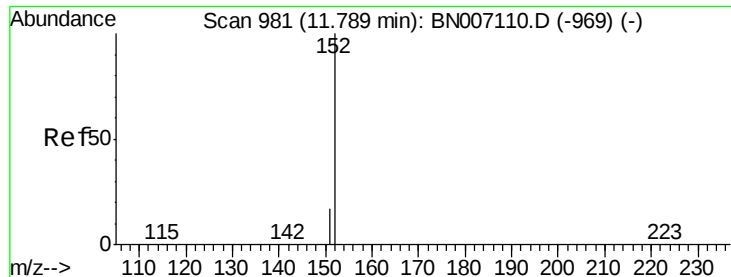
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

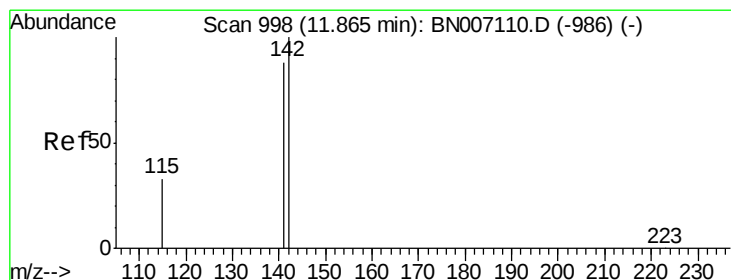
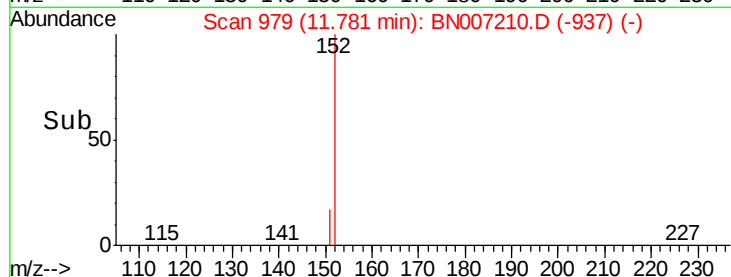
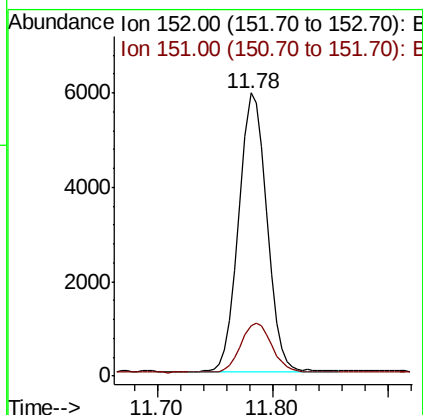
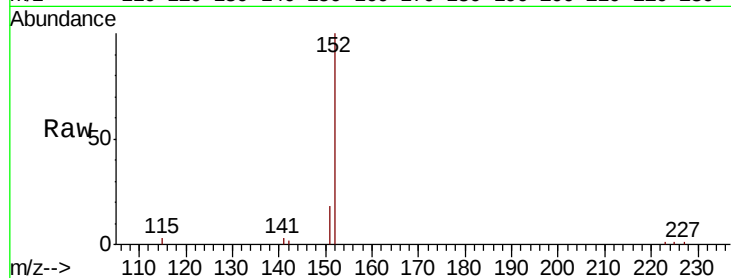




#10
2-Methylnaphthalene-d10
Concen: 0.182 ng
RT: 11.78 min Scan# 979
Delta R.T. -0.01 min
Lab File: BN007210.D
Acq: 15 Aug 2019 23:22

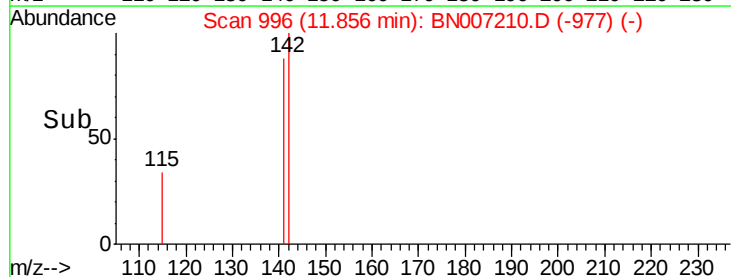
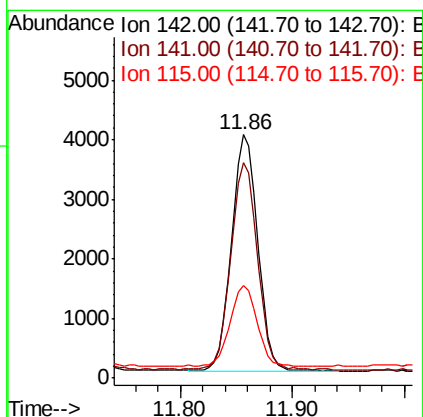
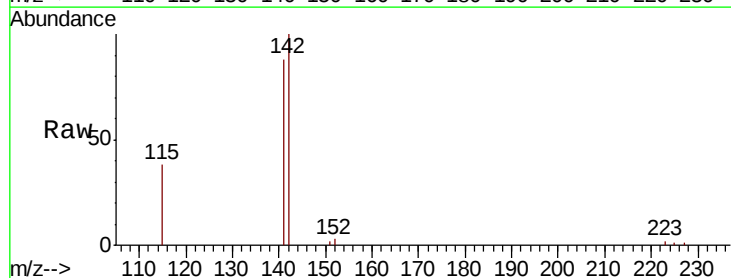
Instrument :
BNA_N
ClientSampleId :

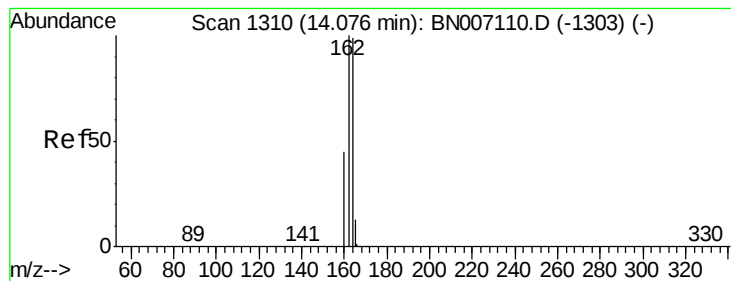
Tot Ion:152 Resp: 9696
Ion Ratio Lower Upper
152 100
151 19.5 15.5 23.3



#11
2-Methylnaphthalene
Concen: 0.113 ng
RT: 11.86 min Scan# 996
Delta R.T. -0.01 min
Lab File: BN007210.D
Acq: 15 Aug 2019 23:22

Tgt Ion:142 Resp: 6433
Ion Ratio Lower Upper
142 100
141 88.5 69.0 103.6
115 38.1 27.1 40.7





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Instrument :

BNA_N

ClientSampled :

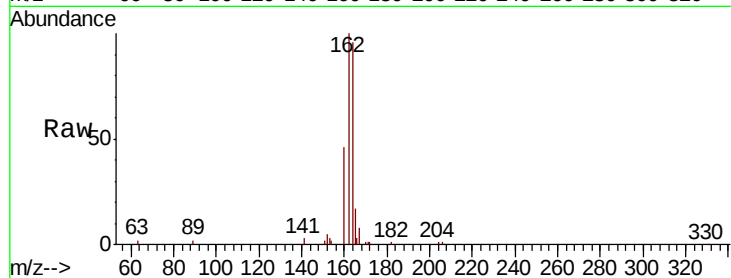
Tot Ion:164 Resp: 16325

Ion Ratio Lower Upper

164 100

162 103.8 82.2 123.4

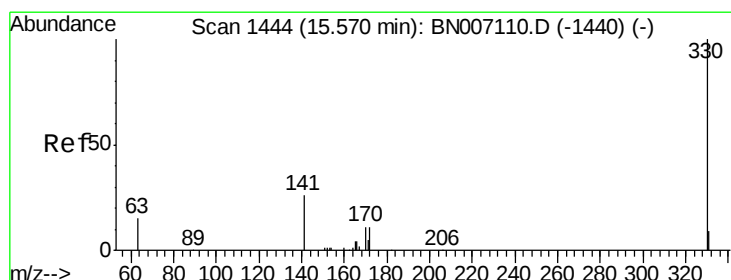
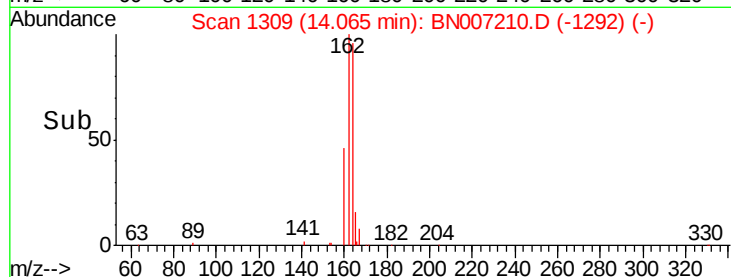
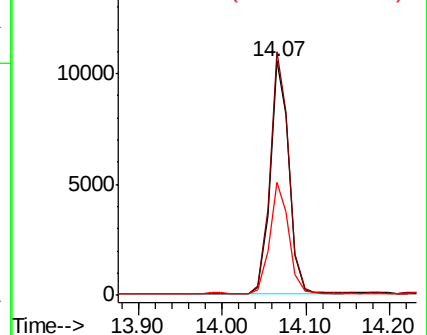
160 48.0 38.3 57.5



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



#13

2,4,6-Tribromophenol

Concen: 0.178 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

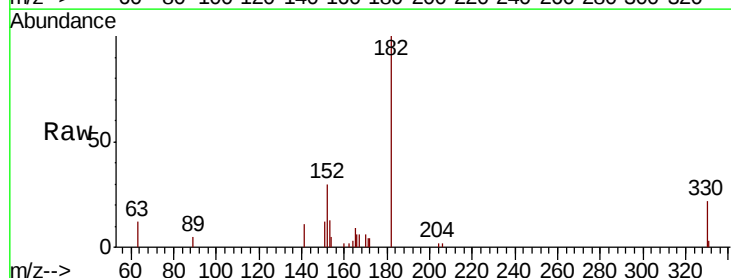
Tgt Ion:330 Resp: 1569

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

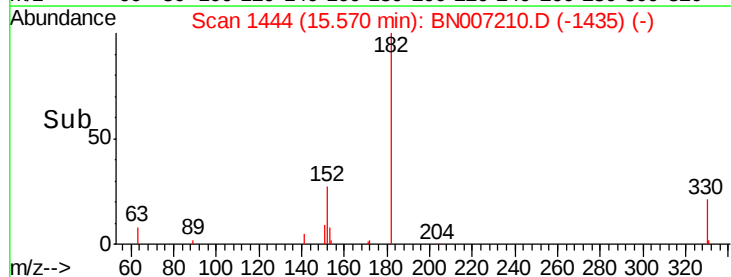
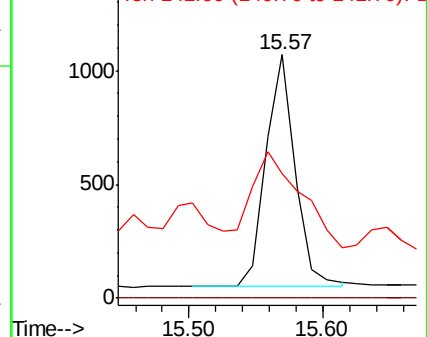
141 69.2 33.6 50.4#



Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

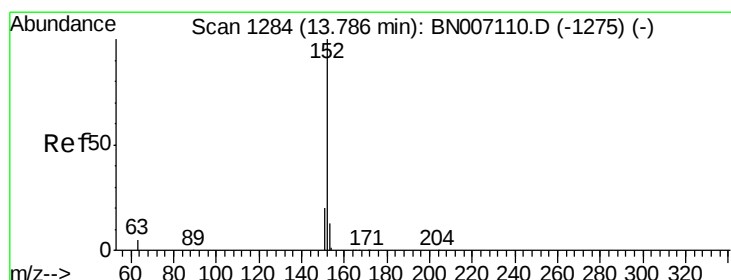
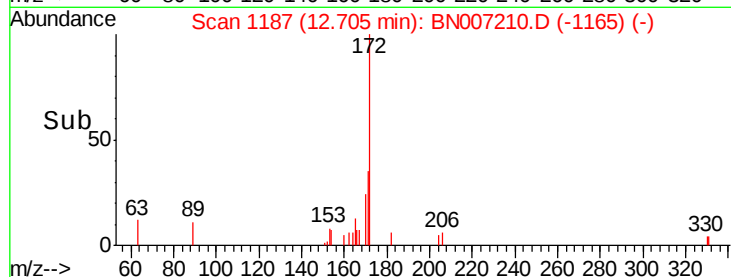
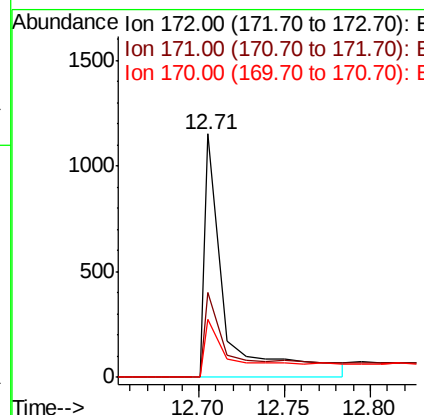
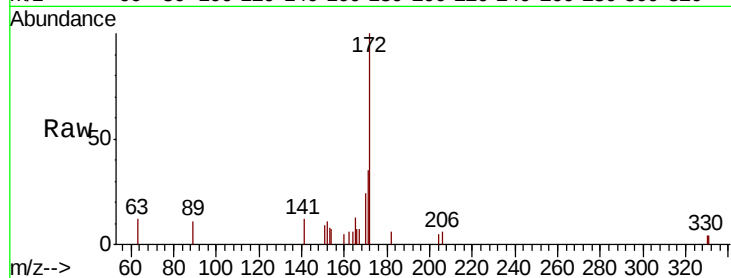




#14
2-Fluorobiphenyl
Concen: 0.044 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007210.D
Acq: 15 Aug 2019 23:22

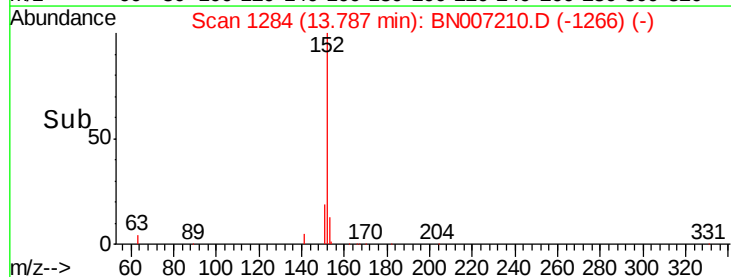
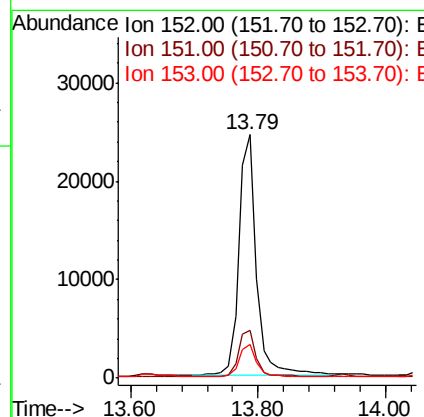
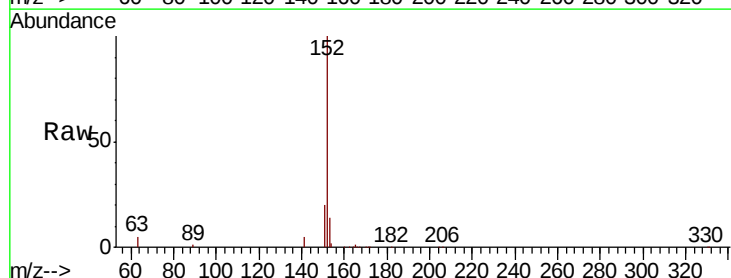
Instrument :
BNA_N
ClientSampleId :

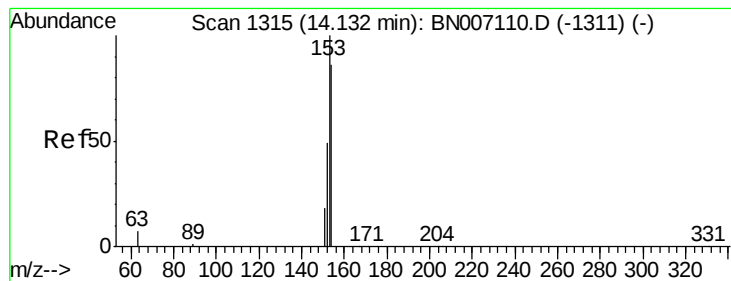
Tot Ion:172 Resp: 1046
Ion Ratio Lower Upper
172 100
171 35.0 26.3 39.5
170 23.9 17.0 25.4



#15
Acenaphthylene
Concen: 0.553 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007210.D
Acq: 15 Aug 2019 23:22

Tgt Ion:152 Resp: 47226
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.3 10.4 15.6

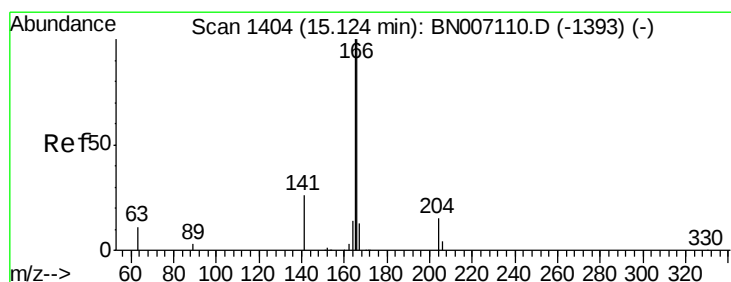
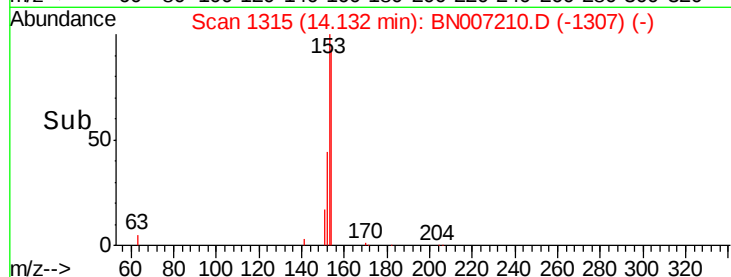
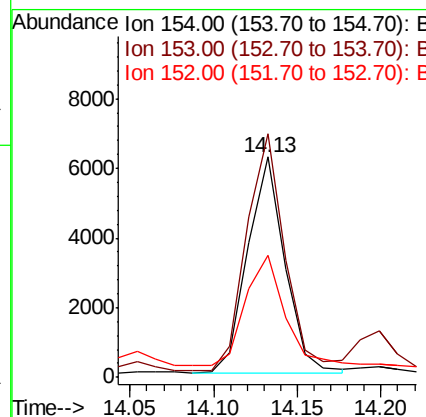
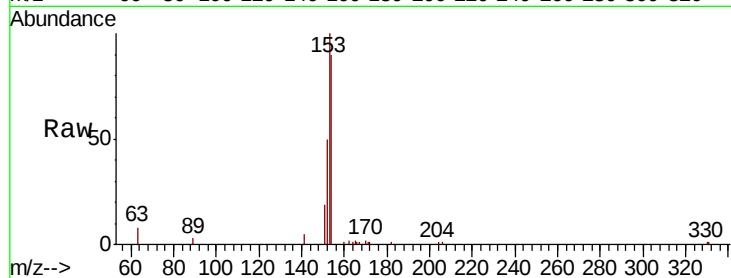




#16
Acenaphthene
Concen: 0.175 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007210.D
Acq: 15 Aug 2019 23:22

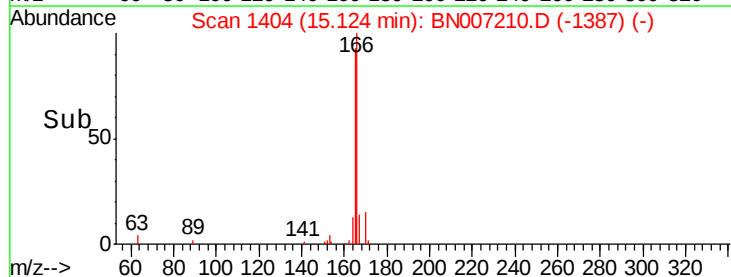
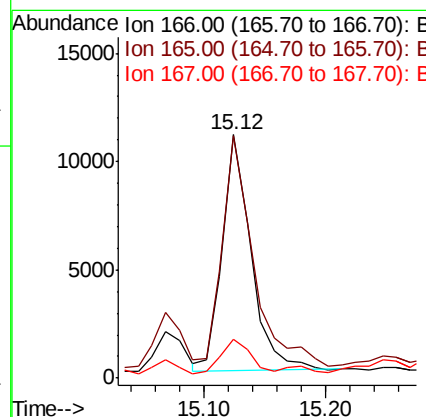
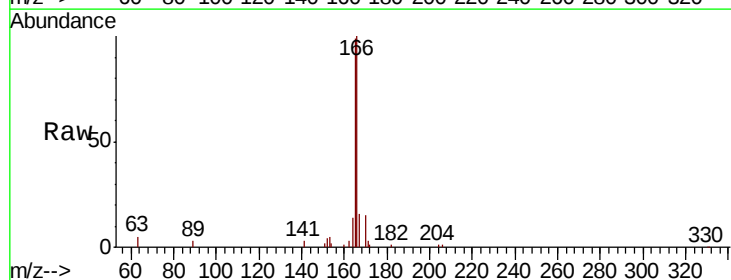
Instrument :
BNA_N
ClientSampleId :

Tot Ion:154 Resp: 9542
Ion Ratio Lower Upper
154 100
153 111.7 89.5 134.3
152 60.3 44.8 67.2



#17
Fluorene
Concen: 0.219 ng
RT: 15.12 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BN007210.D
Acq: 15 Aug 2019 23:22

Tgt Ion:166 Resp: 17918
Ion Ratio Lower Upper
166 100
165 105.2 77.9 116.9
167 14.6 10.9 16.3

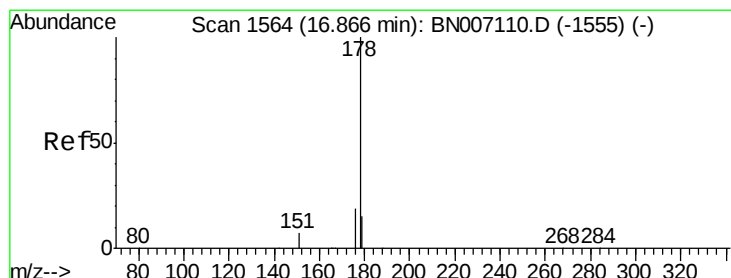
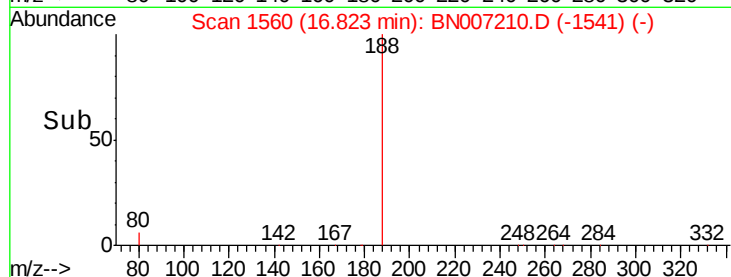
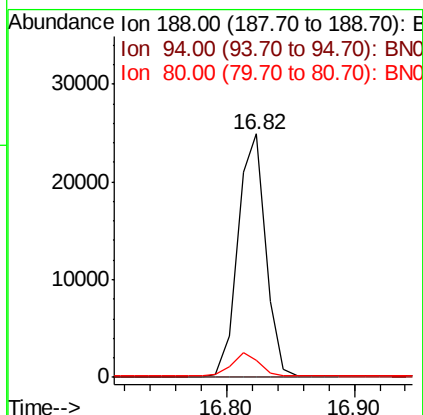
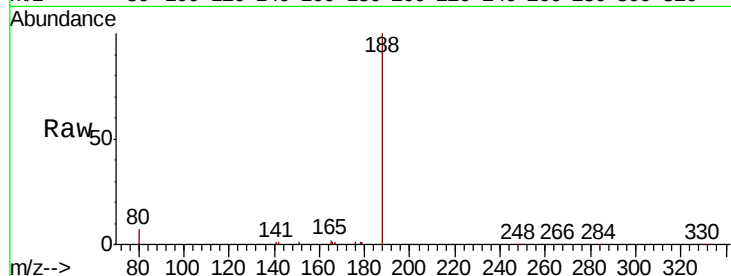




#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007210.D
Acq: 15 Aug 2019 23:22

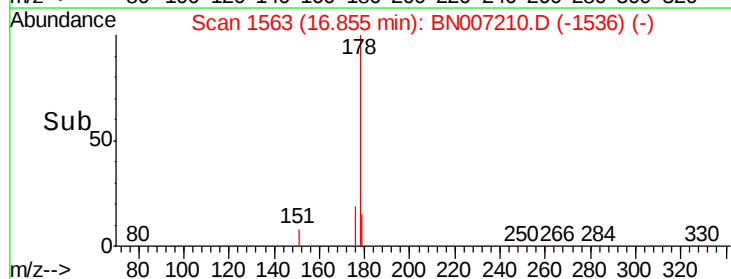
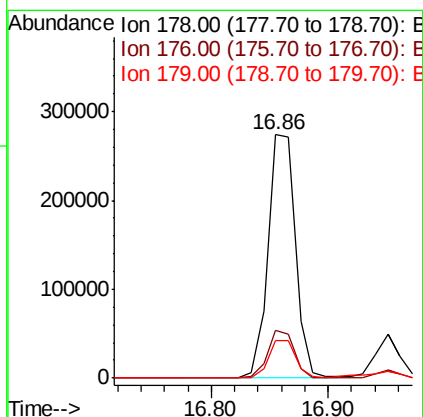
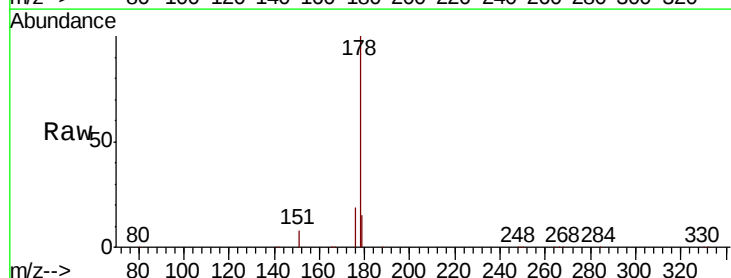
Instrument :
BNA_N
ClientSampleId :

Tot Ion:188 Resp: 37573
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.8 7.8 11.6#



#22
Phenanthrene
Concen: 3.963 ng
RT: 16.86 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BN007210.D
Acq: 15 Aug 2019 23:22

Tgt Ion:178 Resp: 446297
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.3 12.3 18.5





#23

Anthracene

Concen: 0.649 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Instrument :

BNA_N

ClientSampleId :

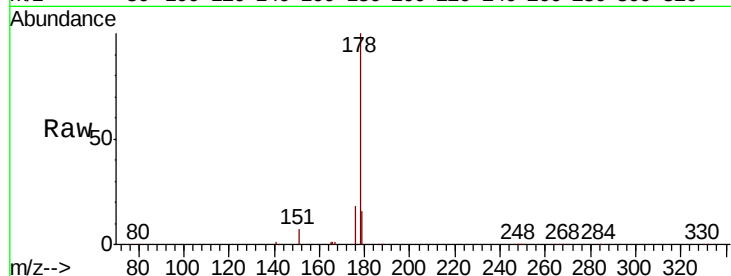
Tot Ion:178 Resp: 66813

Ion Ratio Lower Upper

178 100

176 18.2 14.6 21.8

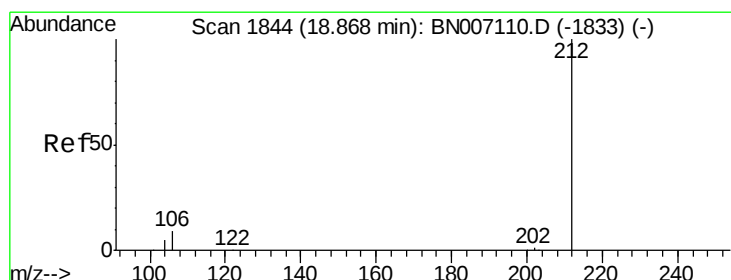
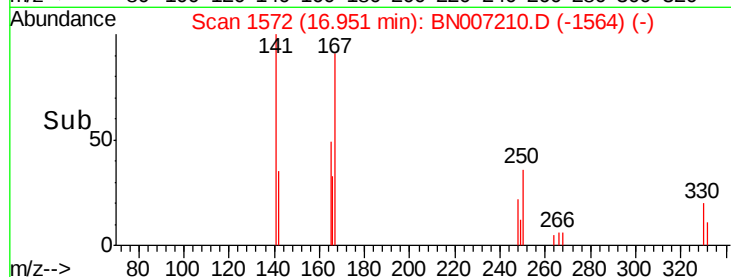
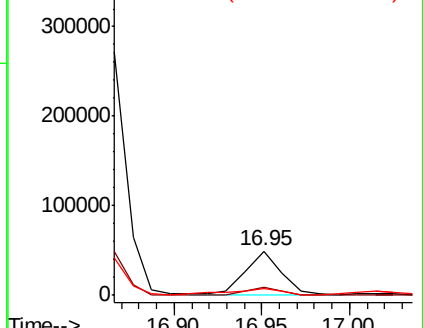
179 21.4 12.5 18.7#



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



#24

Fluoranthene-d10

Concen: 0.126 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

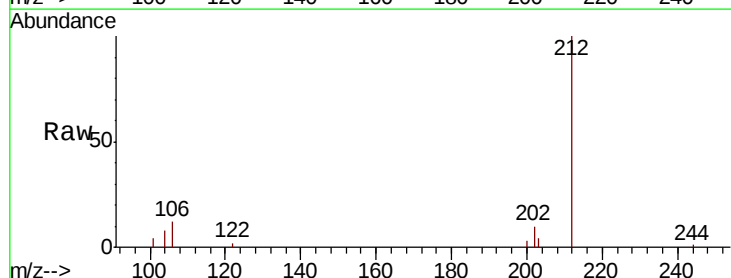
Tgt Ion:212 Resp: 16836

Ion Ratio Lower Upper

212 100

106 10.6 8.2 12.2

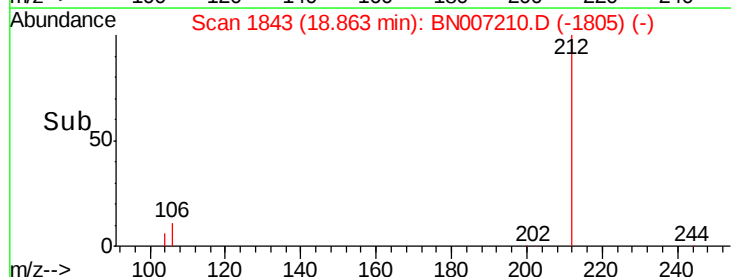
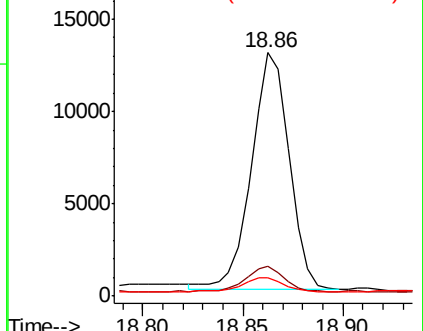
104 7.1 4.5 6.7#

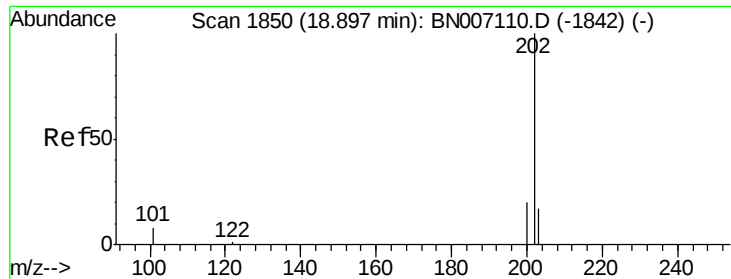


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 5.041 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Instrument :

BNA_N

ClientSampleId :

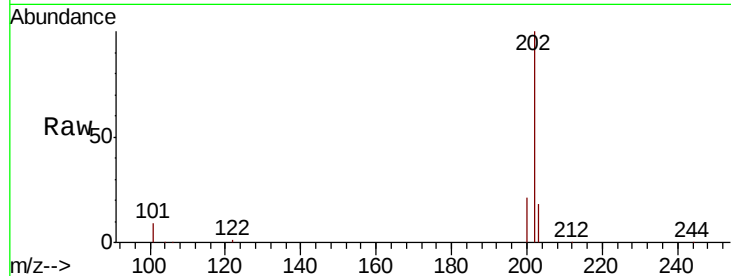
Tot Ion:202 Resp: 726066

Ion Ratio Lower Upper

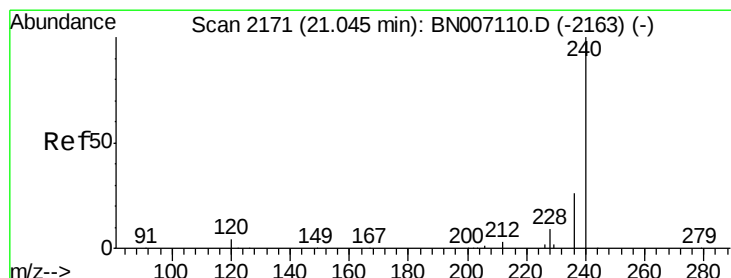
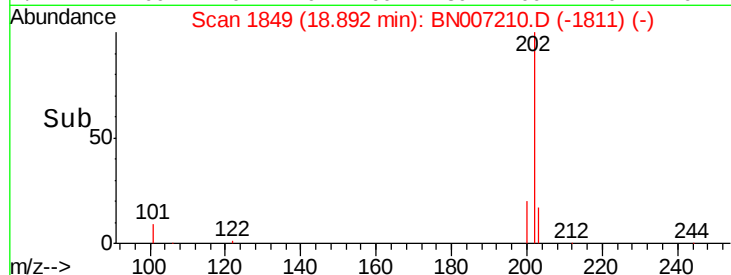
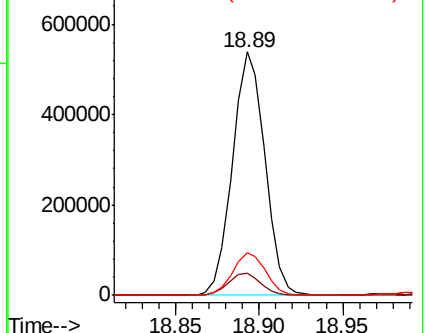
202 100

101 9.0 7.0 10.4

203 17.6 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

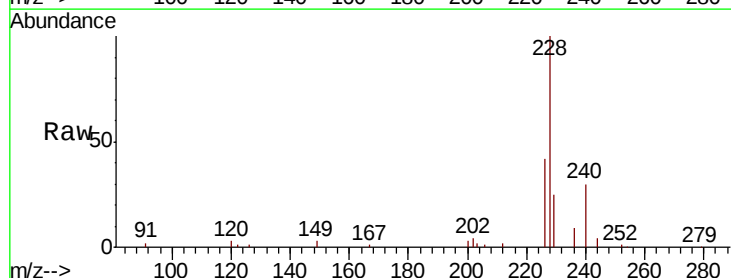
Tgt Ion:240 Resp: 36561

Ion Ratio Lower Upper

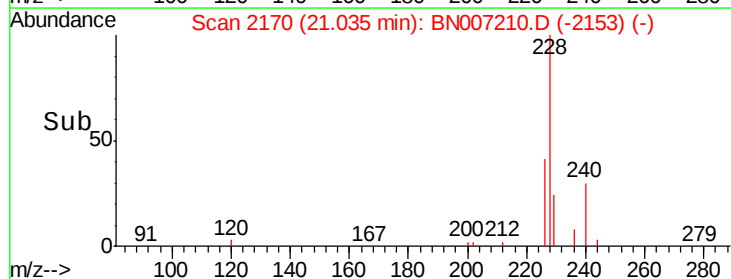
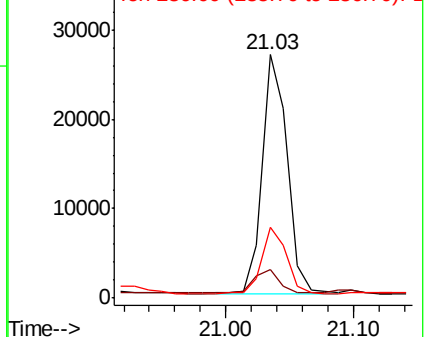
240 100

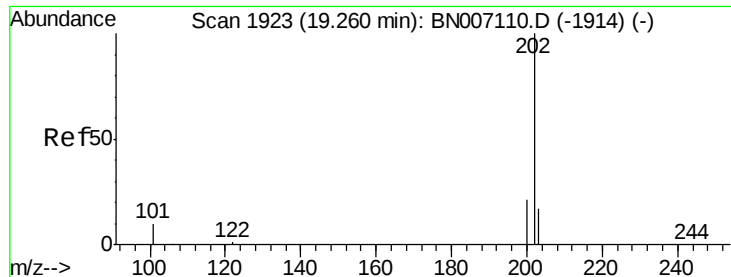
120 11.5 4.0 6.0#

236 28.9 21.3 31.9



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

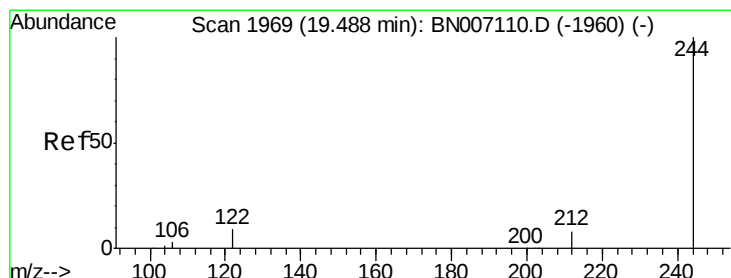
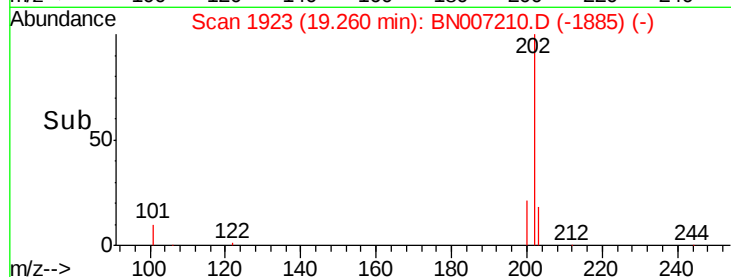
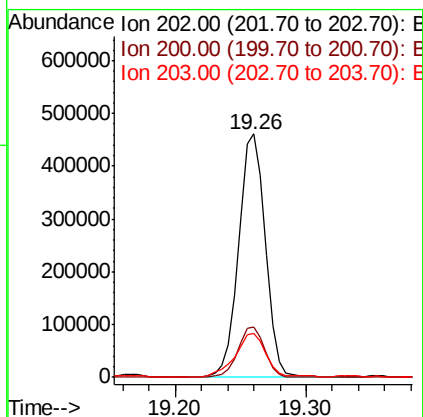
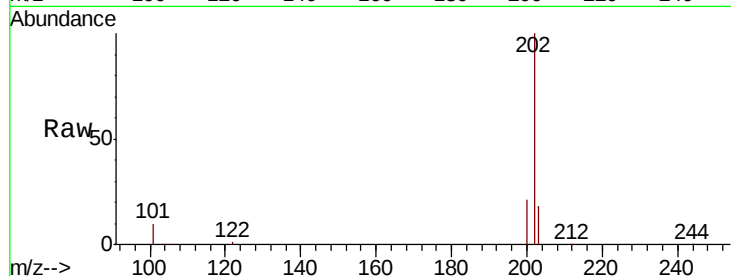




#27
Pvrene
Concen: 5.136 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007210.D
Acq: 15 Aug 2019 23:22

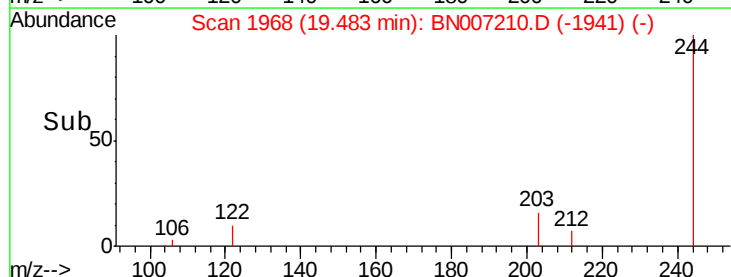
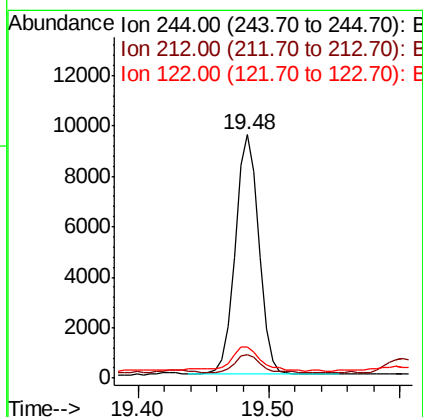
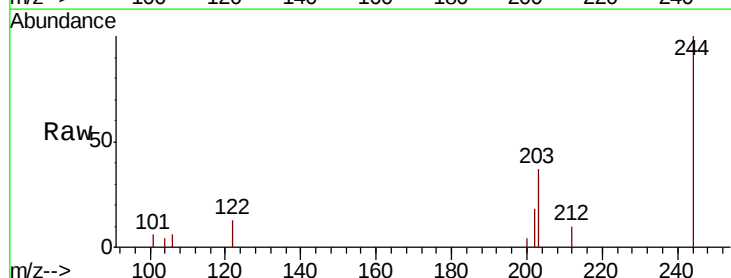
Instrument :
BNA_N
ClientSampleId :

Tot Ion:202 Resp: 658494
Ion Ratio Lower Upper
202 100
200 20.8 16.6 24.8
203 20.9 14.0 21.0



#28
Terphenyl-d14
Concen: 0.121 ng
RT: 19.48 min Scan# 1968
Delta R.T. -0.02 min
Lab File: BN007210.D
Acq: 15 Aug 2019 23:22

Tgt Ion:244 Resp: 12044
Ion Ratio Lower Upper
244 100
212 9.8 6.2 9.2#
122 12.6 7.4 11.2#





#29

Benzo(a)anthracene

Concen: 2.604 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Instrument :

BNA_N

ClientSampleId :

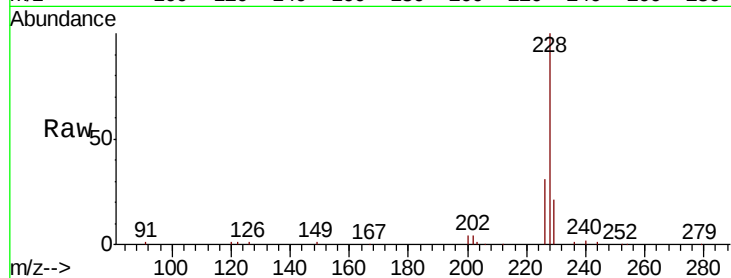
Tot Ion:228 Resp: 348142

Ion	Ratio	Lower	Upper
228	100		
226	31.0	21.8	32.6
229	20.9	15.6	23.4

228 100

226 31.0 21.8 32.6

229 20.9 15.6 23.4

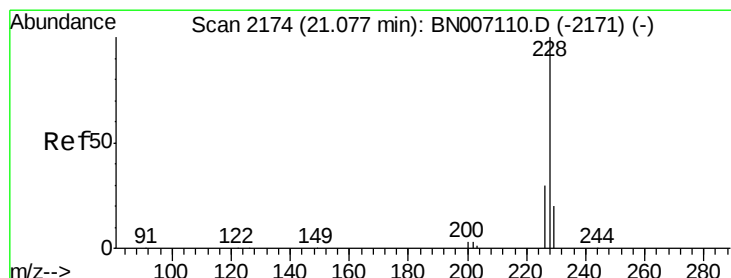
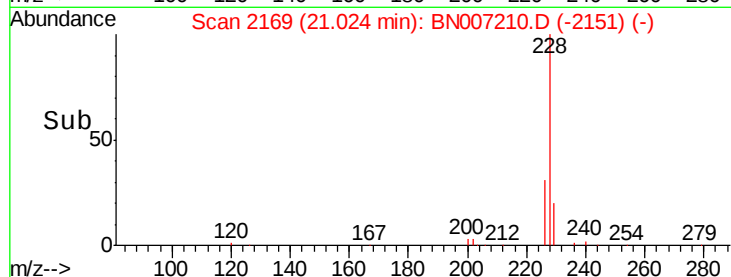
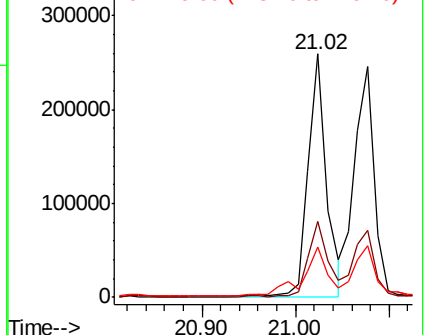


Abundance

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



#30

Chrysene

Concen: 2.753 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

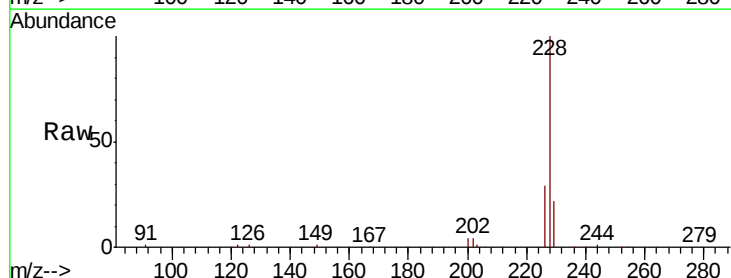
Tgt Ion:228 Resp: 357563

Ion	Ratio	Lower	Upper
228	100		
226	29.3	23.8	35.6
229	22.3	15.7	23.5

228 100

226 29.3 23.8 35.6

229 22.3 15.7 23.5

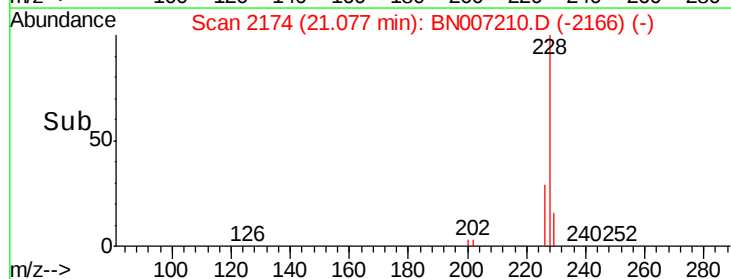
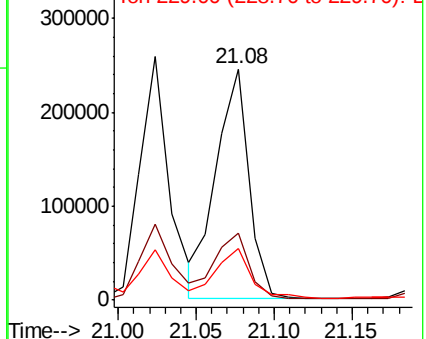


Abundance

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





#31

Indeno(1,2,3-cd)pyrene

Concen: 1.455 ng

RT: 25.23 min Scan# 3123

Delta R.T. -0.03 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Instrument :

BNA_N

ClientSampleId :

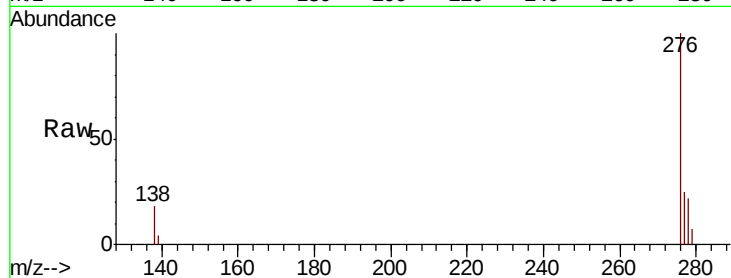
Tot Ion:276 Resp: 208342

Ion Ratio Lower Upper

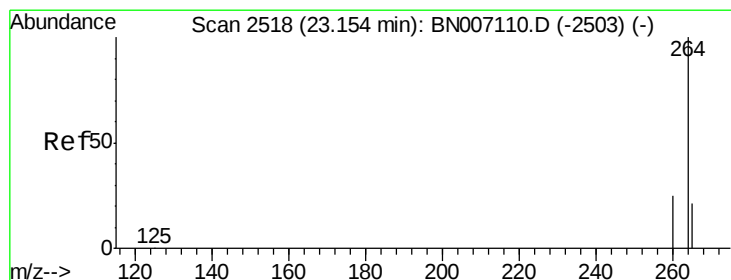
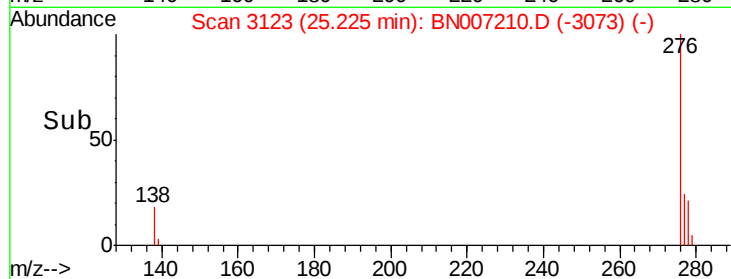
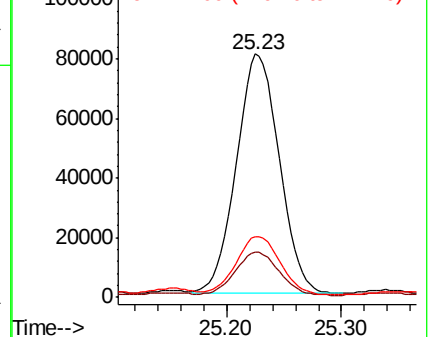
276 100

138 18.5 16.0 24.0

277 25.0 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



#32

Perylene-d12

Concen: 0.400 ng

RT: 23.15 min Scan# 2518

Delta R.T. -0.02 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

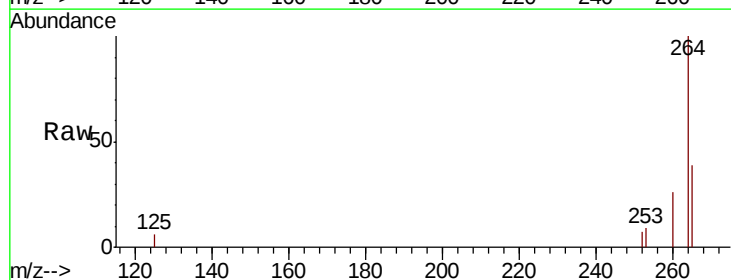
Tgt Ion:264 Resp: 40912

Ion Ratio Lower Upper

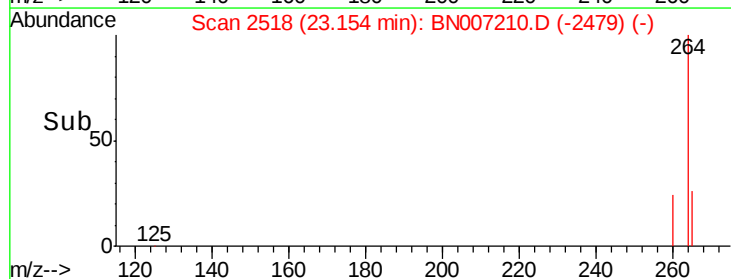
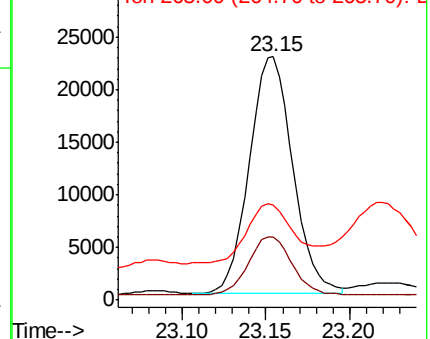
264 100

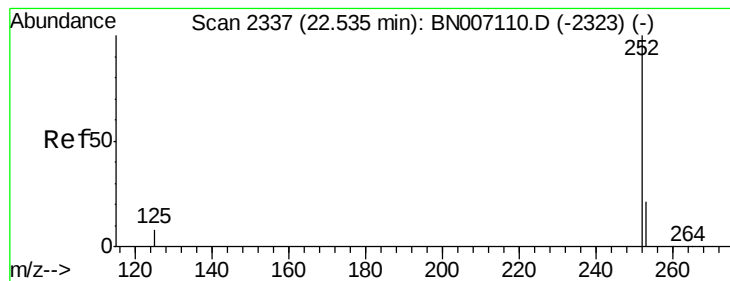
260 26.0 19.8 29.8

265 39.1 26.2 39.4



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 3.192 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Instrument :

BNA_N

ClientSampleId :

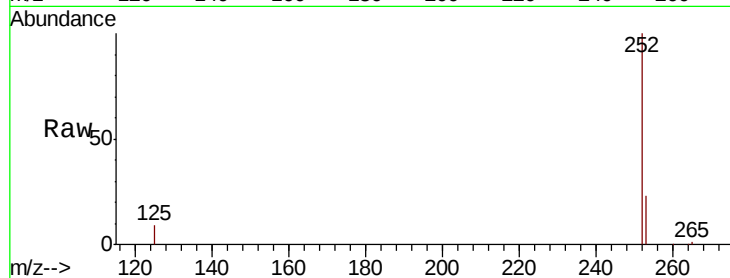
Tot Ion:252 Resp: 447851

Ion Ratio Lower Upper

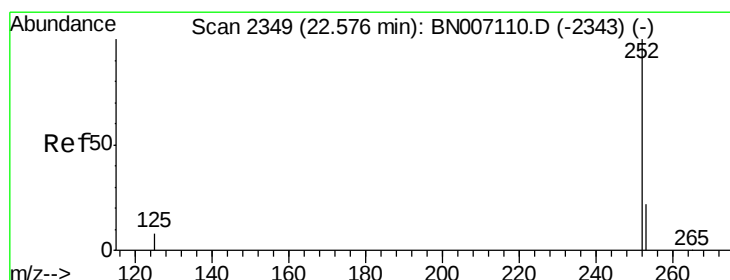
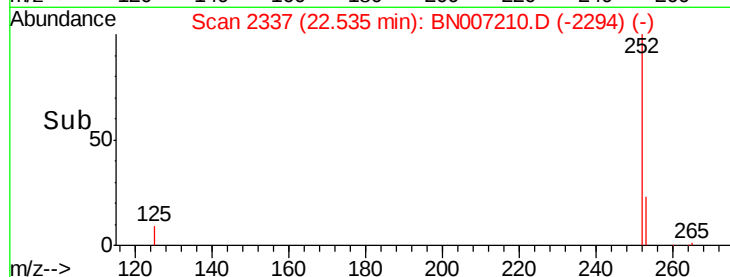
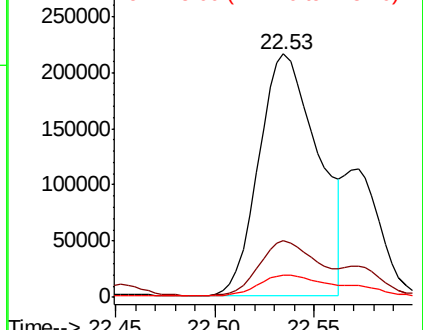
252 100

253 23.1 18.2 27.2

125 9.2 7.4 11.0



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



#34

Benzo(k)fluoranthene

Concen: 3.232 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.05 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

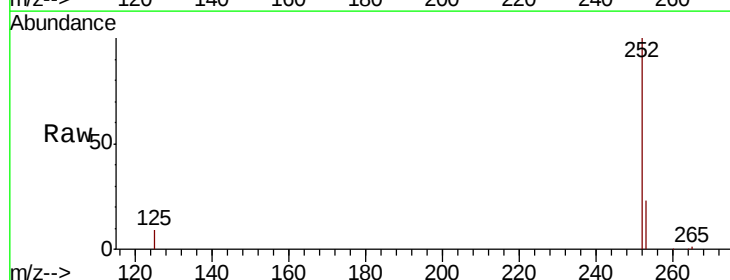
Tgt Ion:252 Resp: 447851

Ion Ratio Lower Upper

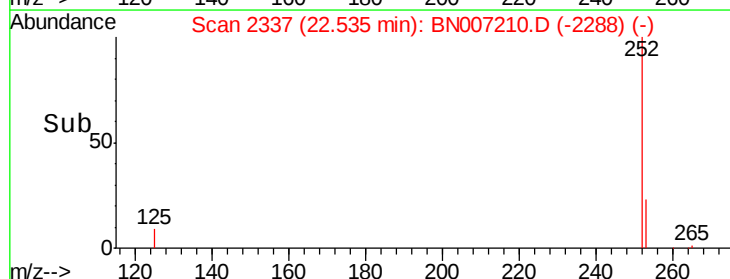
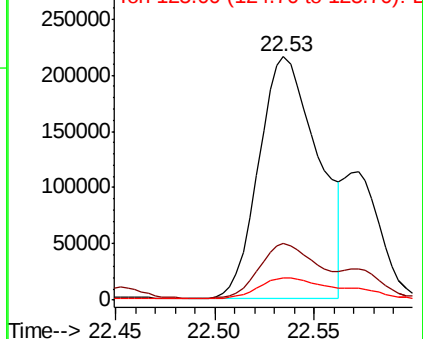
252 100

253 23.1 18.1 27.1

125 9.2 7.4 11.0



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





#35

Benzo(a)pyrene

Concen: 2.414 ng

RT: 23.06 min Scan# 2491

Delta R.T. -0.02 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Instrument :

BNA_N

ClientSampleId :

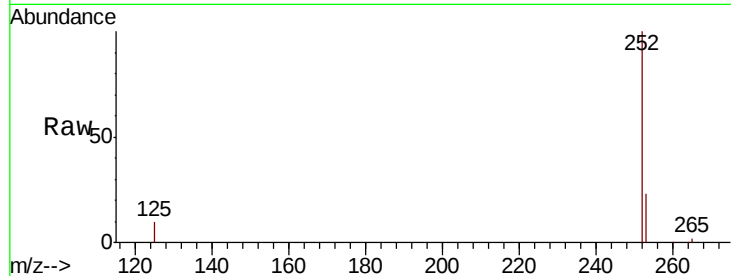
Tot Ion:252 Resp: 307079

Ion Ratio Lower Upper

252 100

253 23.1 18.5 27.7

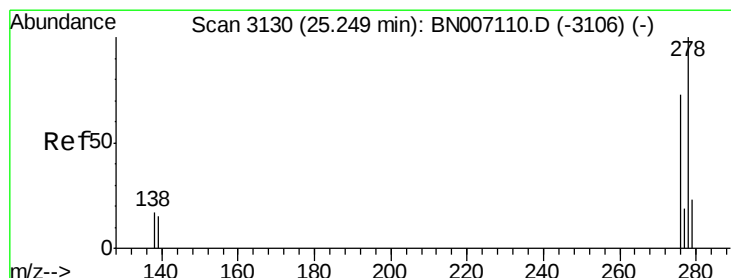
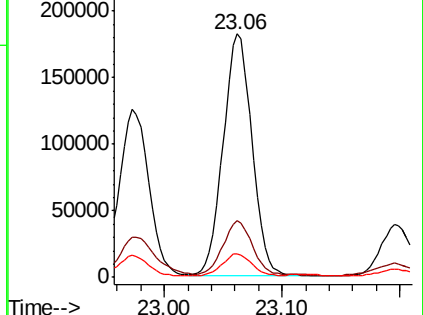
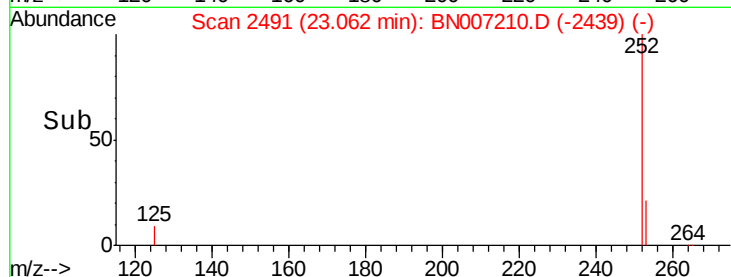
125 9.6 8.2 12.4



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



#36

Dibenzo(a,h)anthracene

Concen: 0.456 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.04 min

Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

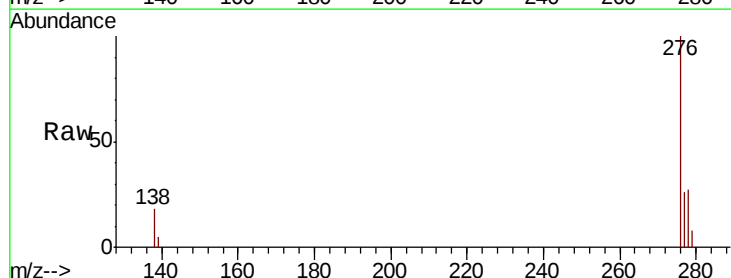
Tgt Ion:278 Resp: 57849

Ion Ratio Lower Upper

278 100

139 17.7 11.3 16.9#

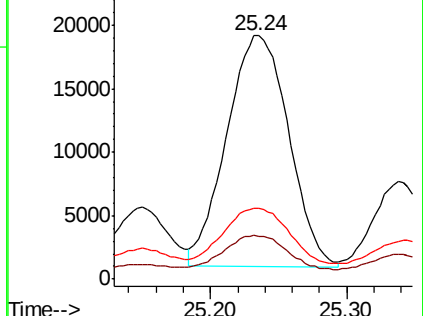
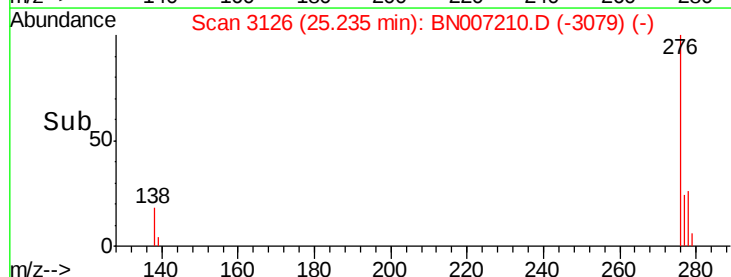
279 29.1 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#37

Benzo(a,h,i)perylene

Concen: 1.548 ng

RT: 25.85 min Scan# 3307

Delta R.T. -0.02 min

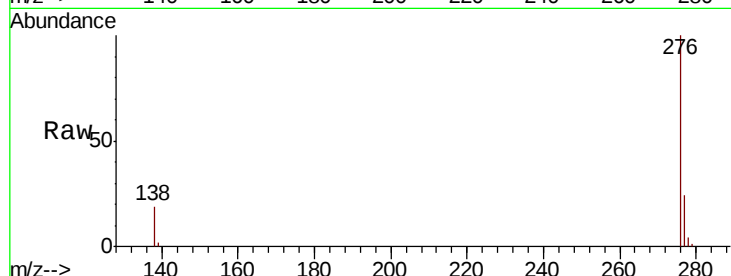
Lab File: BN007210.D

Acq: 15 Aug 2019 23:22

Instrument :

BNA_N

ClientSampleId :



Tot Ion: 276 Resp: 202082

Ion Ratio Lower Upper

276 100

277 24.4 19.8 29.8

138 18.8 14.6 22.0

