

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081419\
 Data File : BN007182.D
 Acq On : 15 Aug 2019 02:29
 Operator : HP/JU
 Sample : K4282-18
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 15 11:05:08 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	7991	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	28678	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	15289	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	34399	0.40	ng	0.00
26) Chrysene-d12	21.05	240	34829	0.40	ng	-0.01
32) Perylene-d12	23.16	264	39547	0.40	ng	-0.01

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	8837	0.46	ng	0.00
4) Phenol-d6	6.61	99	11513	0.48	ng	0.00
7) Nitrobenzene-d5	8.55	82	8235	0.36	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	17212	0.32	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2688	0.33	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	2342	0.11	ng	0.00
24) Fluoranthene-d10	18.87	212	33223	0.27	ng	0.00
28) Terphenyl-d14	19.49	244	23232	0.24	ng	-0.01

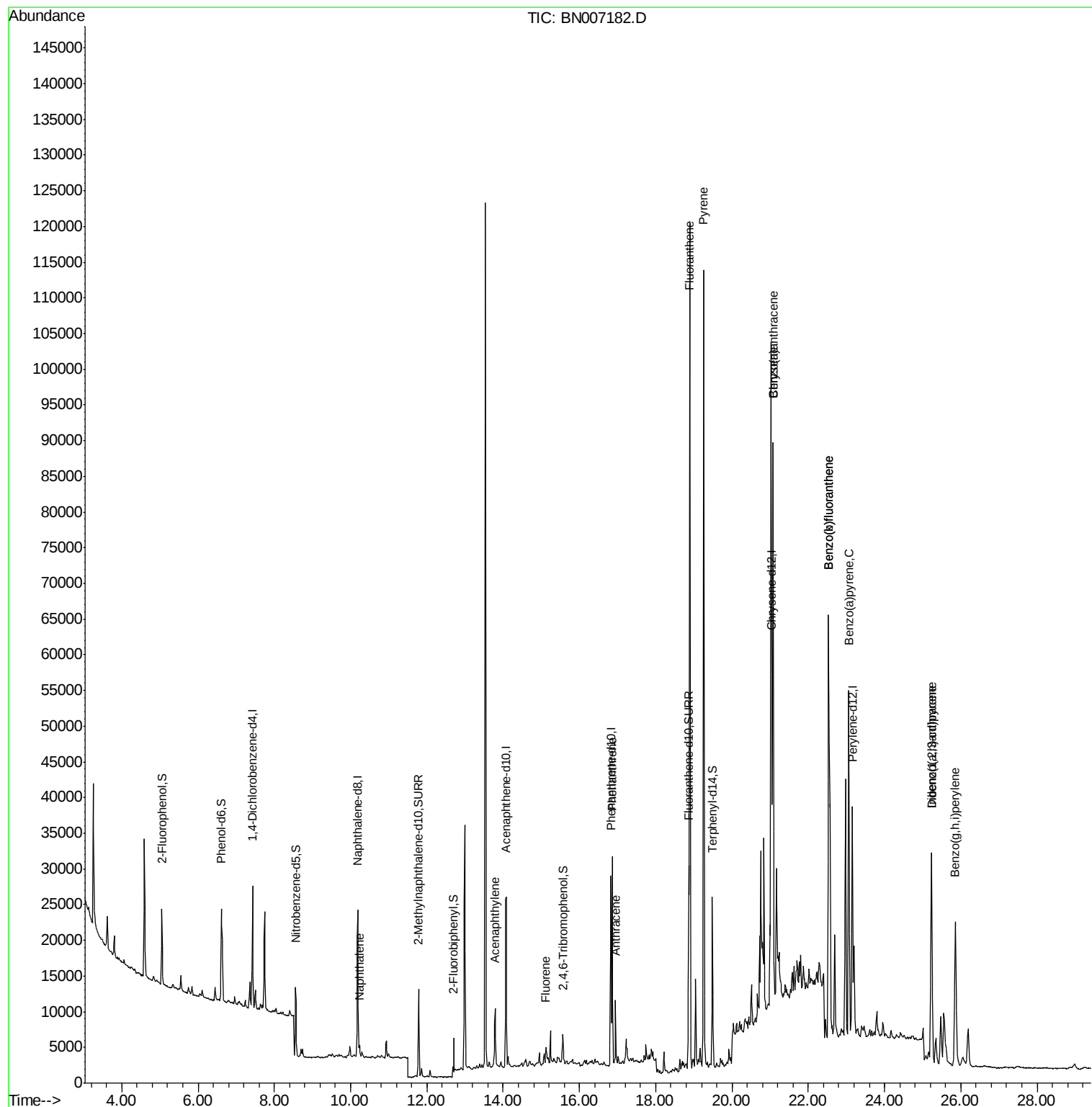
Target Compounds				Qvalue		
8) Naphthalene	10.24	128	2387	0.030	ng	# 84
15) Acenaphthylene	13.79	152	13000	0.163	ng	98
17) Fluorene	15.12	166	2248	0.029	ng	# 75
22) Phenanthrene	16.87	178	31332	0.304	ng	99
23) Anthracene	16.95	178	8973	0.095	ng	# 94
25) Fluoranthene	18.90	202	107286	0.814	ng	100
27) Pyrene	19.26	202	100240	0.821	ng	97
29) Benzo(a)anthracene	21.08	228	70438	0.553	ng	93
30) Chrysene	21.08	228	70114	0.567	ng	96
31) Indeno(1,2,3-cd)pyrene	25.23	276	45178	0.331	ng	98
33) Benzo(b)fluoranthene	22.53	252	94860	0.700	ng	97
34) Benzo(k)fluoranthene	22.53	252	94860	0.708	ng	97
35) Benzo(a)pyrene	23.06	252	66071	0.537	ng	97
36) Dibenzo(a,h)anthracene	25.24	278	12317	0.100	ng	# 76
37) Benzo(a,h,i)perylene	25.86	276	40700	0.323	ng	96

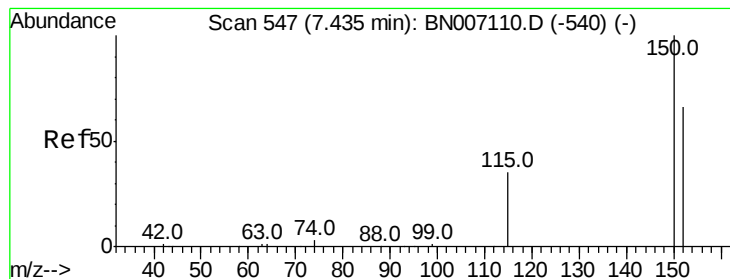
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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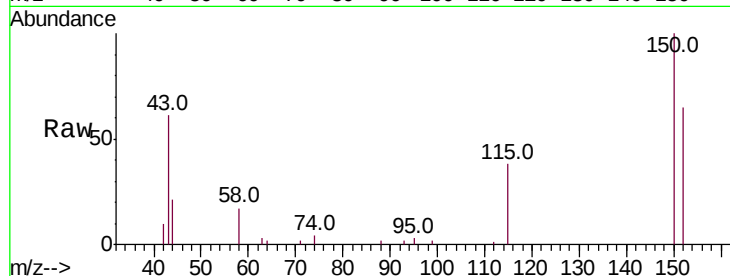


#1

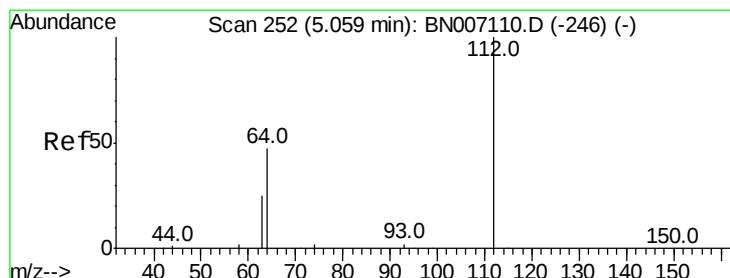
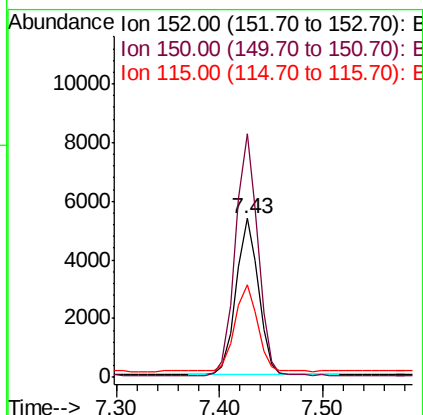
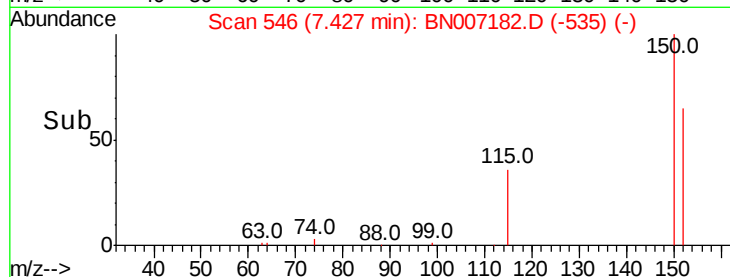
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007182.D
Acq: 15 Aug 2019 02:29

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 7991
Ion Ratio Lower Upper
152 100
150 153.3 121.7 182.5
115 58.1 46.2 69.4



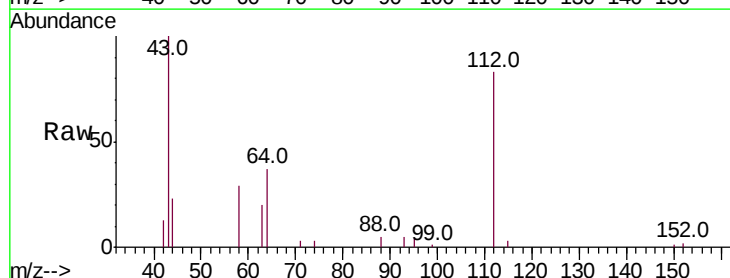
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



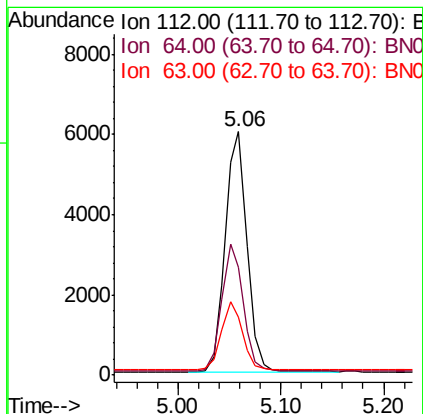
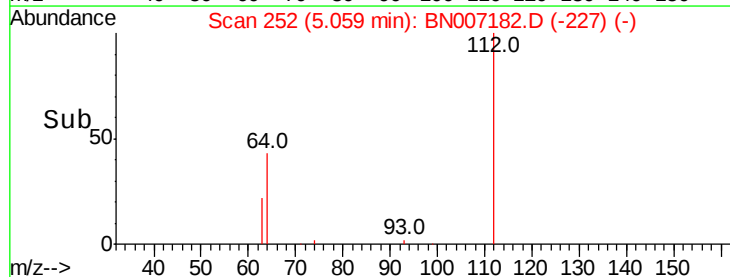
#3

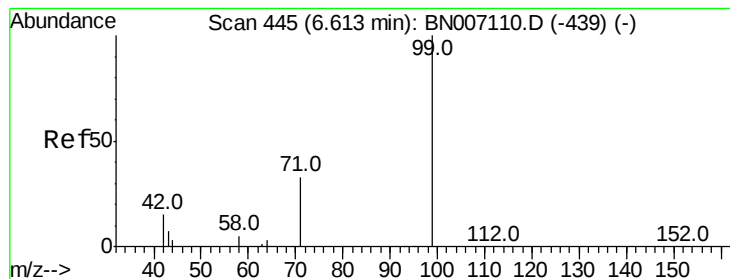
2-Fluorophenol
Concen: 0.460 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007182.D
Acq: 15 Aug 2019 02:29

Tgt Ion:112 Resp: 8837
Ion Ratio Lower Upper
112 100
64 51.9 42.6 63.8
63 26.9 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: 0.484 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Instrument :

BNA_N

ClientSampleId :

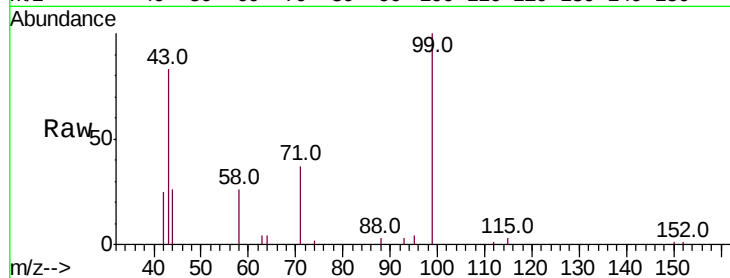
Tot Ion: 99 Resp: 11513

Ion Ratio Lower Upper

99 100

42 22.0 15.8 23.6

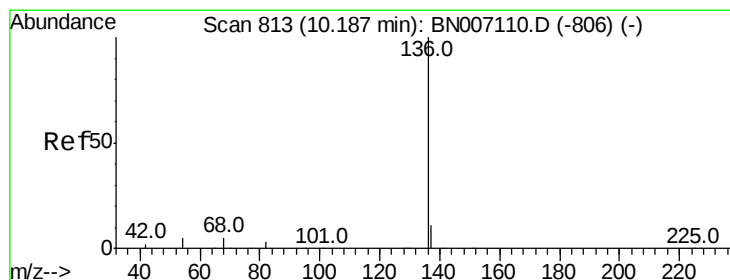
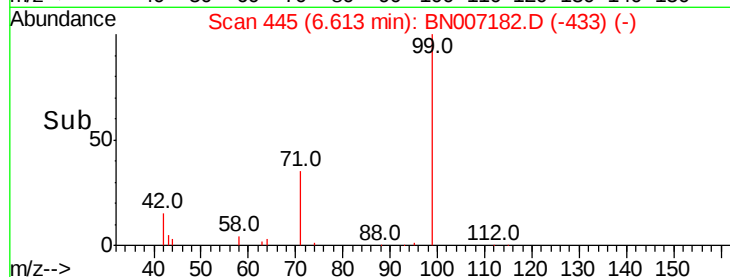
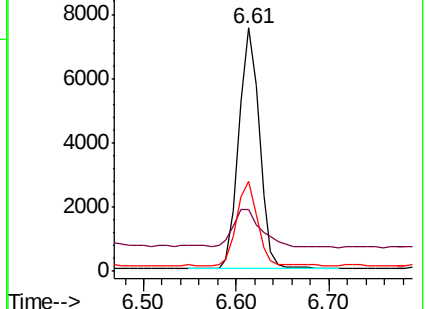
71 34.7 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Tgt Ion: 136 Resp: 28678

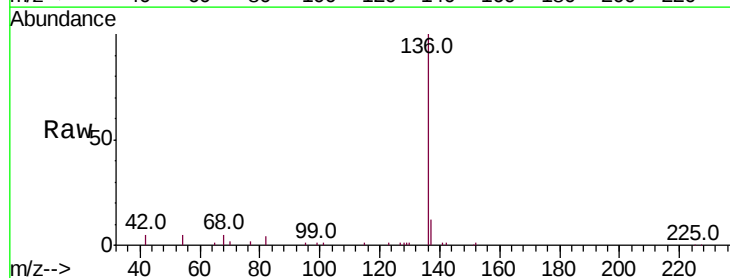
Ion Ratio Lower Upper

136 100

137 11.6 9.4 14.0

54 4.9 6.6 9.8#

68 5.1 6.0 9.0#

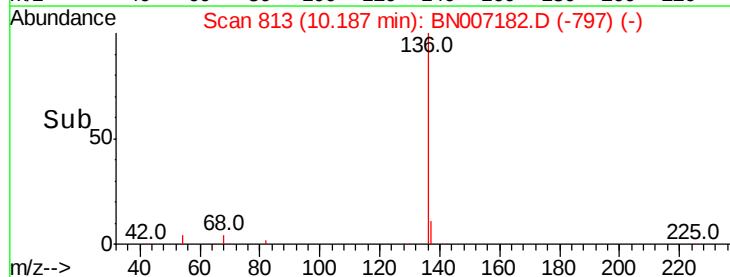
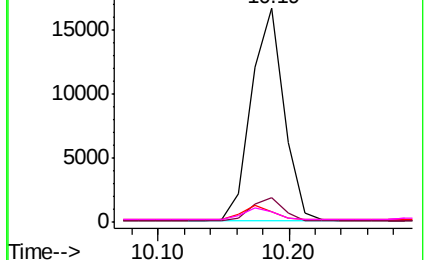


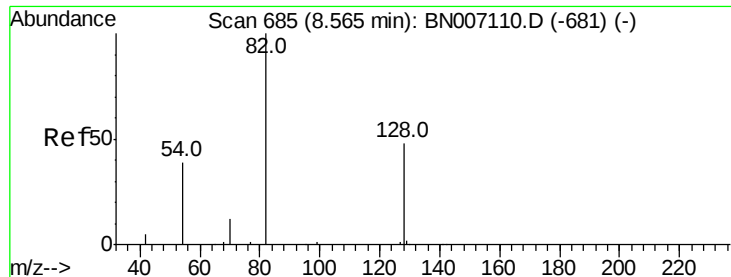
Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)





#7

Nitrobenzene-d5

Concen: 0.356 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Instrument :

BNA_N

ClientSampleId :

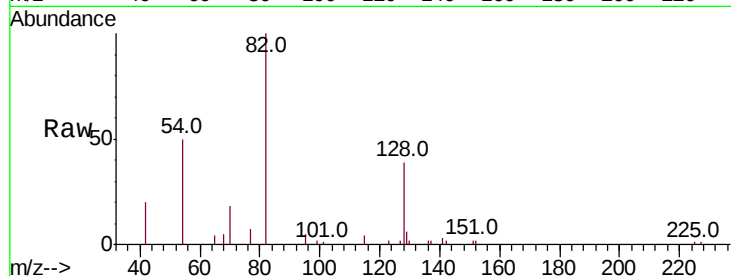
Tot Ion: 82 Resp: 8235

Ion Ratio Lower Upper

82 100

128 38.6 34.6 51.8

54 49.7 36.2 54.4



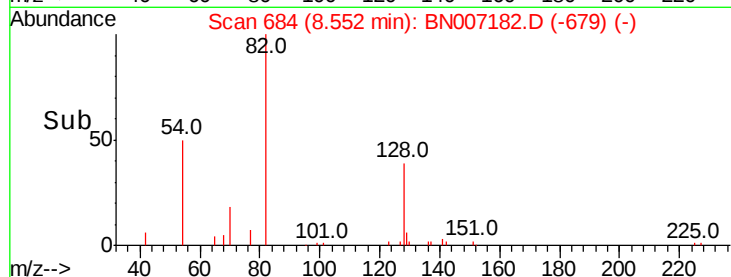
Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

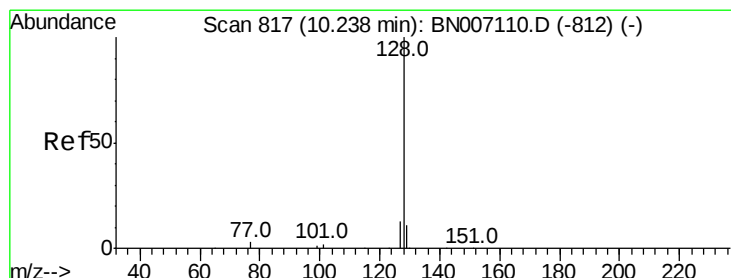
Ion 54.00 (53.70 to 54.70): BN007110.D (-681) (-)

8.55

Time-->



Time-->



#8

Naphthalene

Concen: 0.030 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

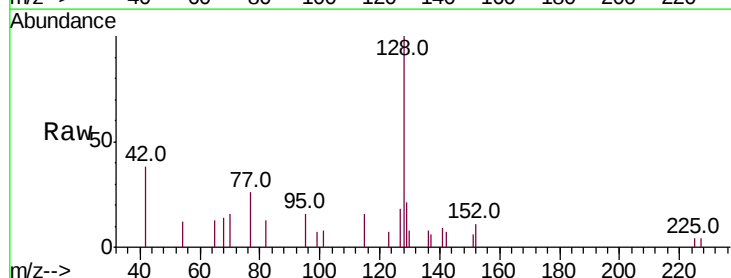
Tgt Ion: 128 Resp: 2387

Ion Ratio Lower Upper

128 100

129 20.7 9.4 14.2#

127 18.2 11.0 16.6#



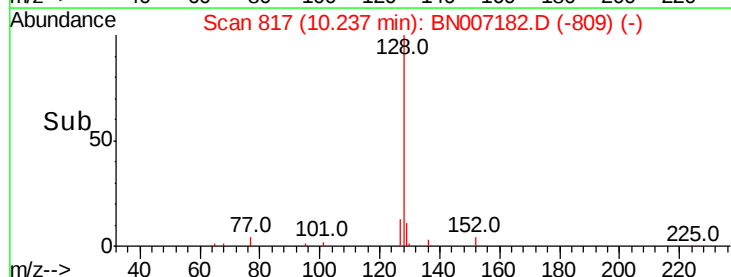
Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

Ion 129.00 (128.70 to 129.70): BN007110.D (-812) (-)

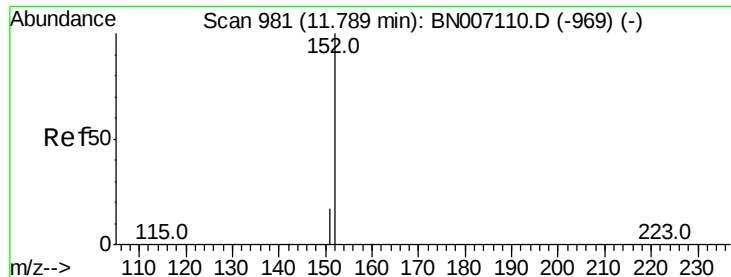
Ion 127.00 (126.70 to 127.70): BN007110.D (-812) (-)

10.24

Time-->



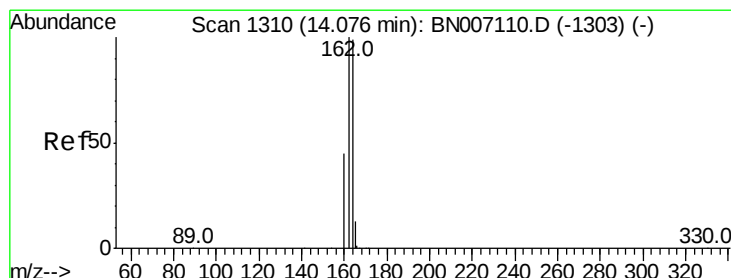
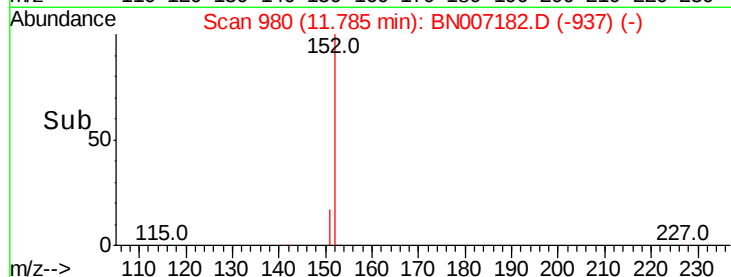
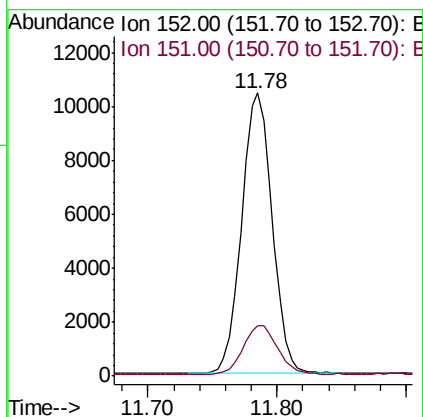
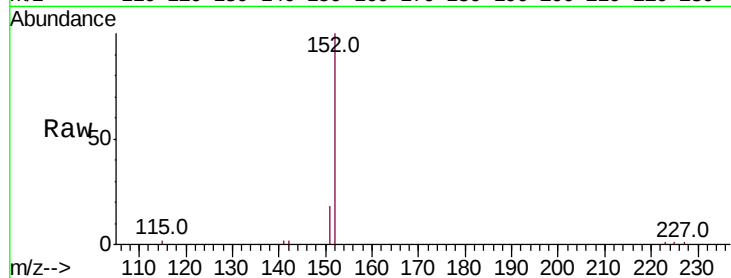
Time-->



#10
2-Methylnaphthalene-d10
Concen: 0.322 ng
RT: 11.78 min Scan# 980
Delta R.T. -0.01 min
Lab File: BN007182.D
Acq: 15 Aug 2019 02:29

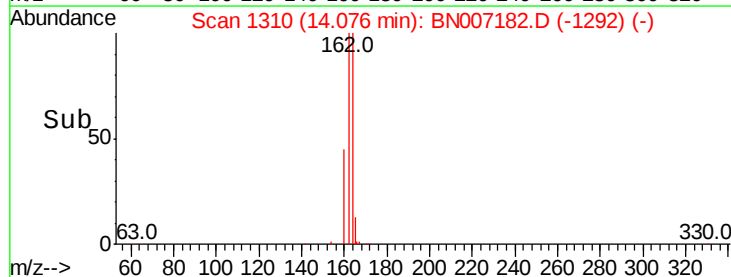
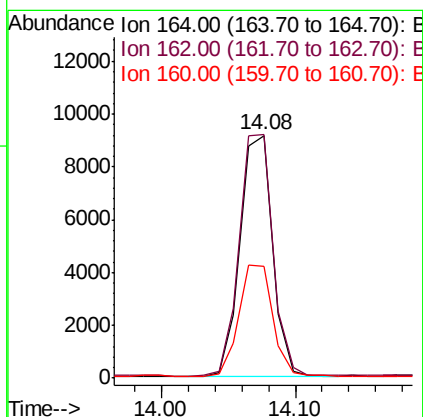
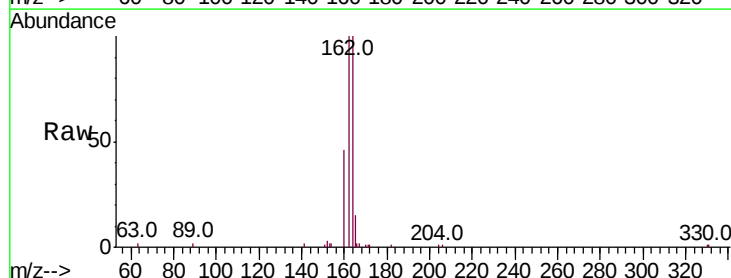
Instrument :
BNA_N
ClientSampleId :

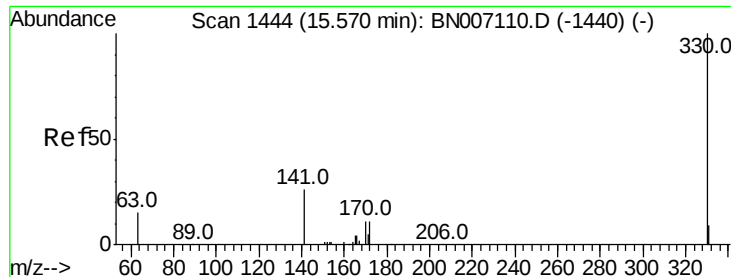
Tot Ion:152 Resp: 17212
Ion Ratio Lower Upper
152 100
151 19.2 15.5 23.3



#12
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.08 min Scan# 1310
Delta R.T. -0.00 min
Lab File: BN007182.D
Acq: 15 Aug 2019 02:29

Tgt Ion:164 Resp: 15289
Ion Ratio Lower Upper
164 100
162 100.3 82.2 123.4
160 45.8 38.3 57.5

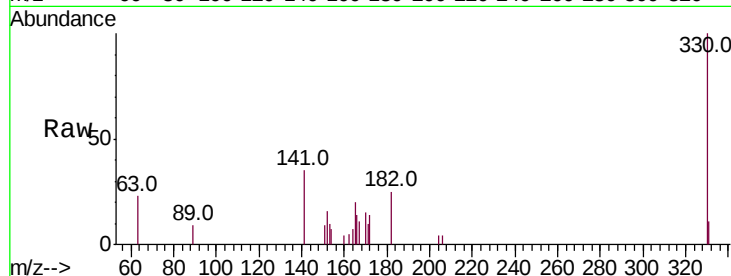




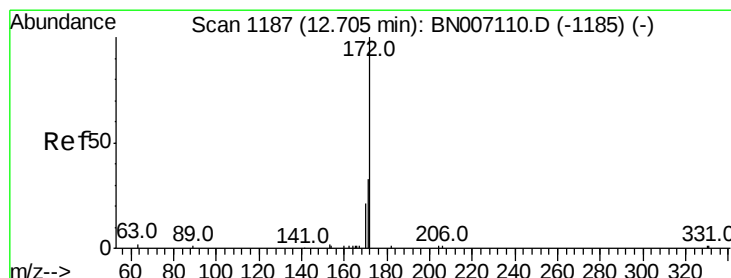
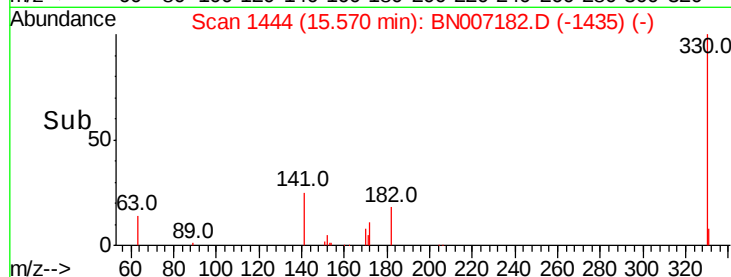
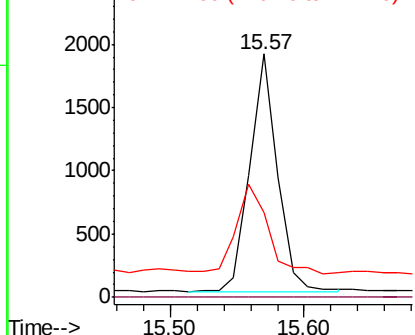
#13
 2,4,6-Tribromophenol
 Concen: 0.326 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007182.D
 Acq: 15 Aug 2019 02:29

Instrument :
 BNA_N
 ClientSampled :

Tot Ion:330 Resp: 2688
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 42.9 33.6 50.4

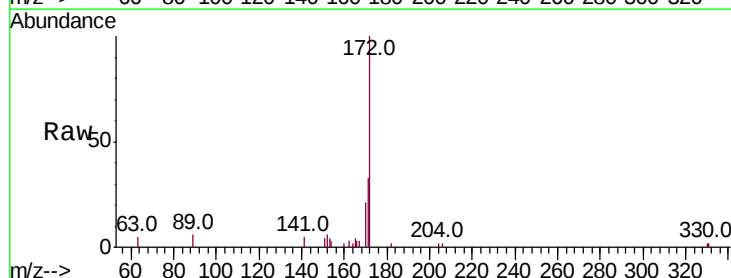


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

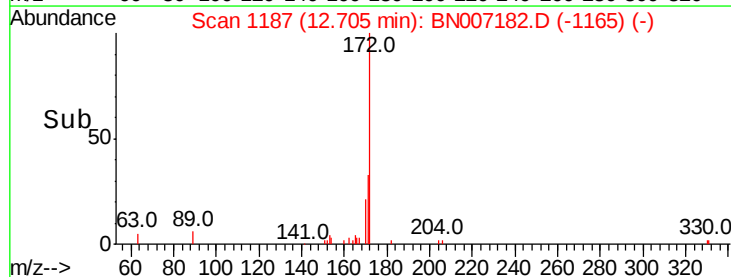
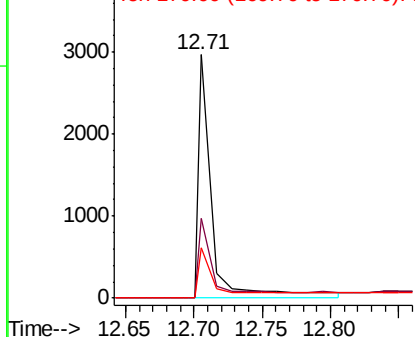


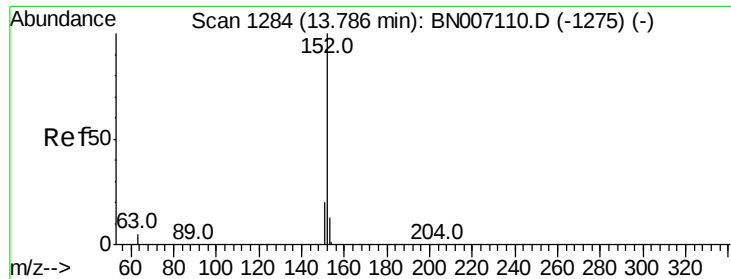
#14
 2-Fluorobiphenyl
 Concen: 0.105 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007182.D
 Acq: 15 Aug 2019 02:29

Tgt Ion:172 Resp: 2342
 Ion Ratio Lower Upper
 172 100
 171 32.7 26.3 39.5
 170 20.7 17.0 25.4



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





#15

Acenaphthylene

Concen: 0.163 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

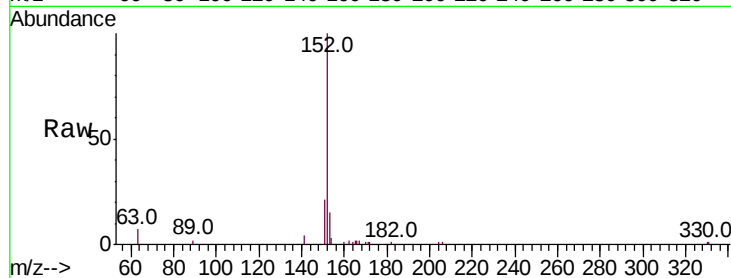
Instrument :

BNA_N

ClientSampleId :

Tot Ion:152 Resp: 13000

Ion	Ratio	Lower	Upper
152	100		
151	18.7	15.8	23.6
153	12.7	10.4	15.6

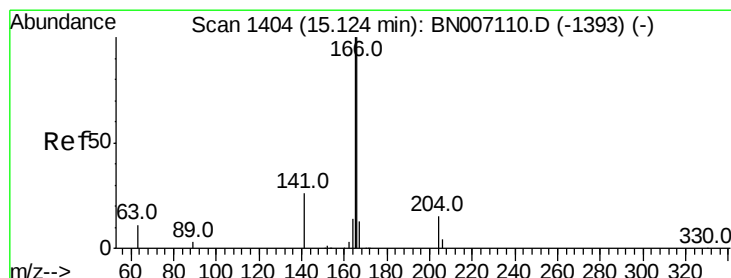
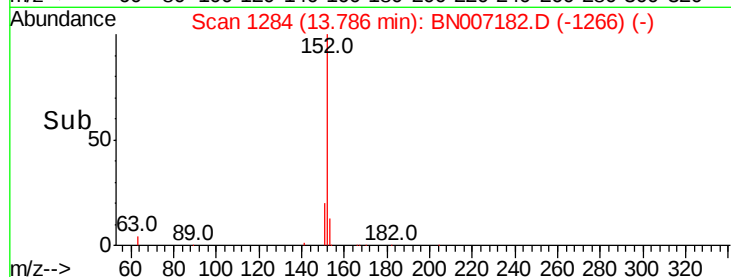
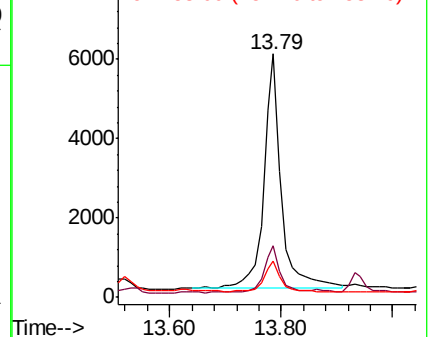


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#17

Fluorene

Concen: 0.029 ng

RT: 15.12 min Scan# 1404

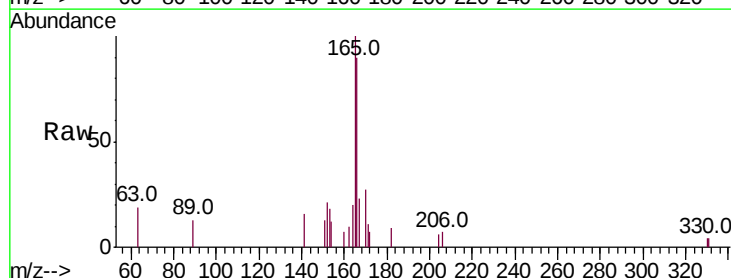
Delta R.T. -0.01 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Tgt Ion:166 Resp: 2248

Ion	Ratio	Lower	Upper
166	100		
165	124.6	77.9	116.9#
167	10.5	10.9	16.3#

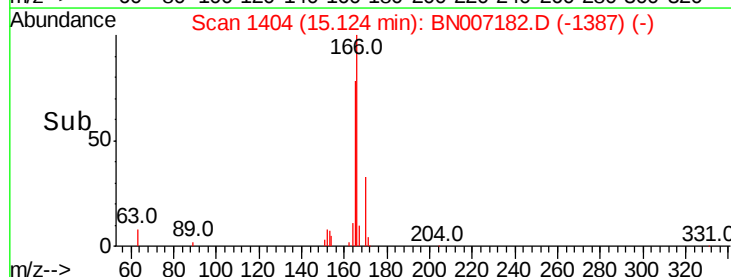
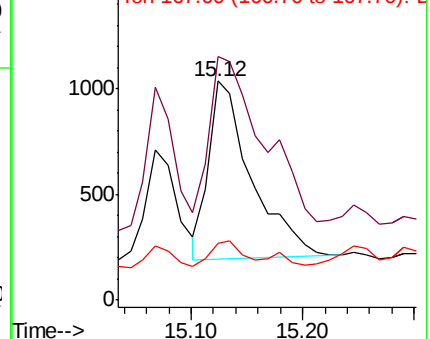


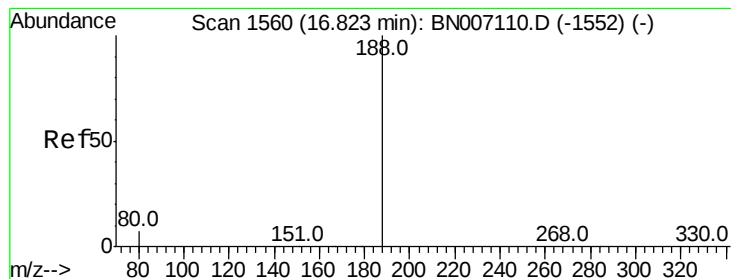
Abundance

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





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Instrument :

BNA_N

ClientSampleId :

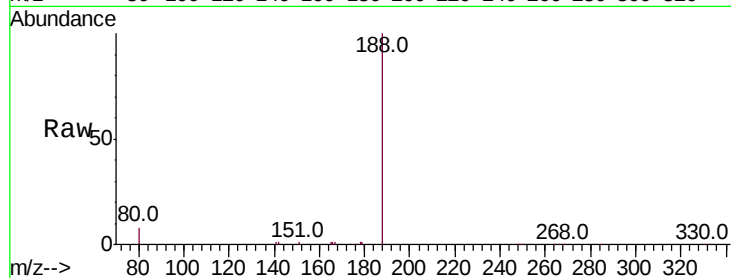
Tot Ion:188 Resp: 34399

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

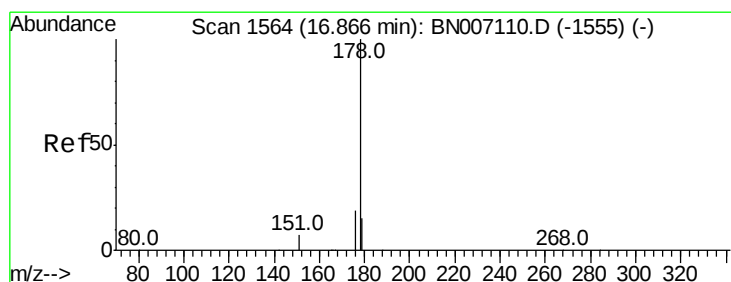
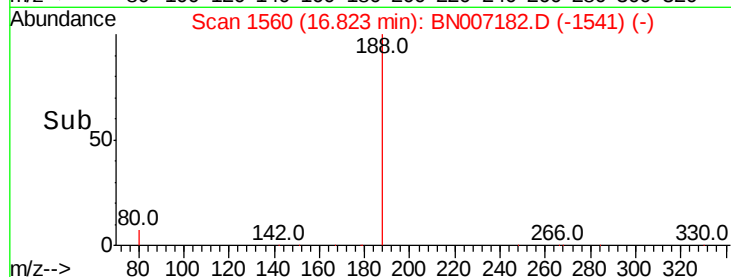
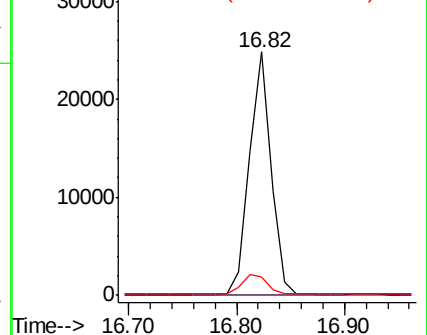
80 7.5 7.8 11.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#22

Phenanthrene

Concen: 0.304 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

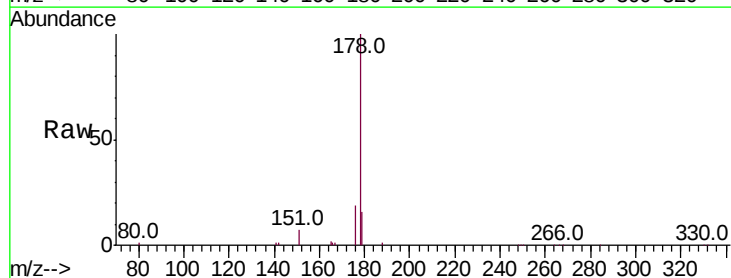
Tgt Ion:178 Resp: 31332

Ion Ratio Lower Upper

178 100

176 18.6 15.2 22.8

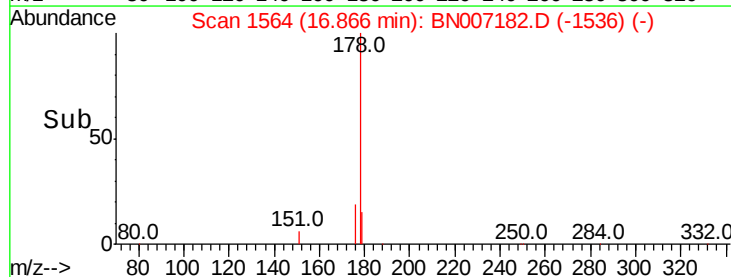
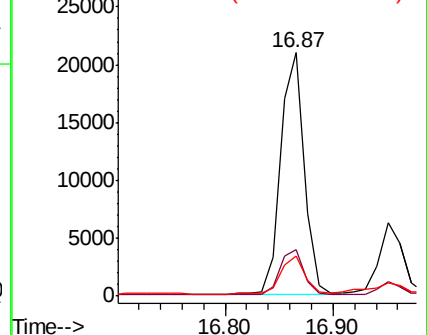
179 15.8 12.3 18.5

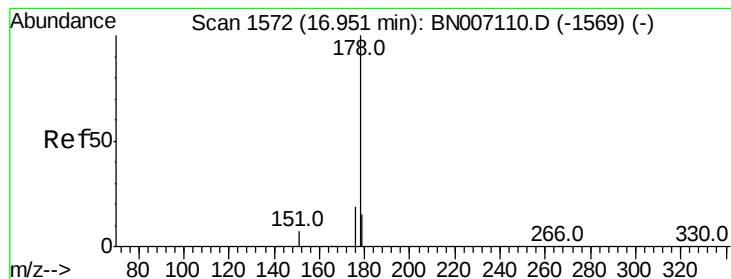


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 0.095 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Instrument :

BNA_N

ClientSampleId :

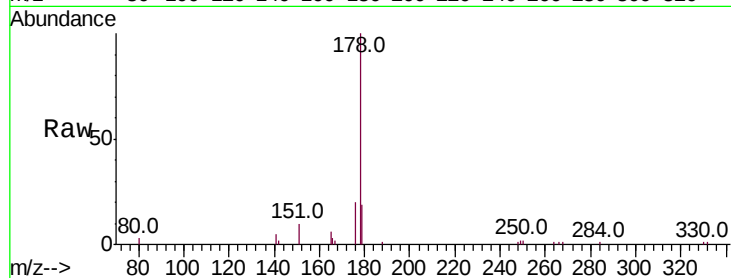
Tot Ion:178 Resp: 8973

Ion Ratio Lower Upper

178 100

176 18.8 14.6 21.8

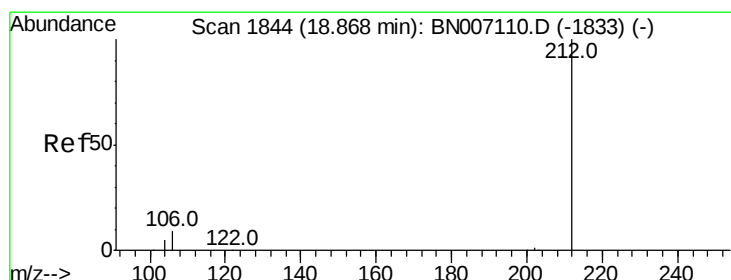
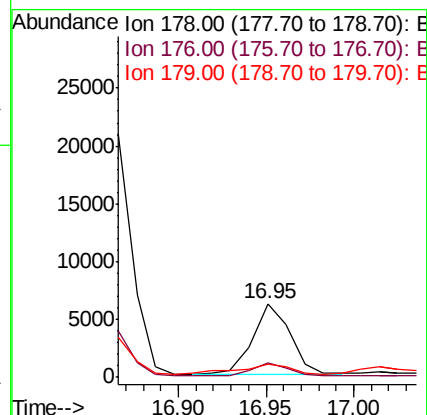
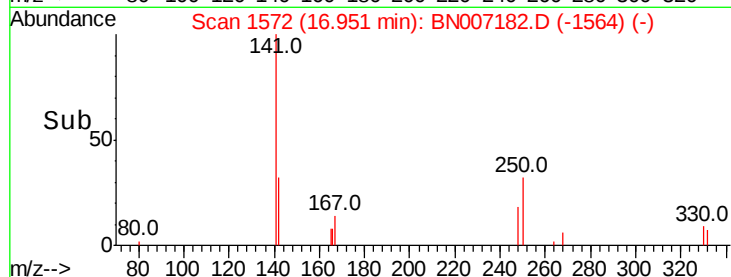
179 20.7 12.5 18.7#



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: 0.272 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

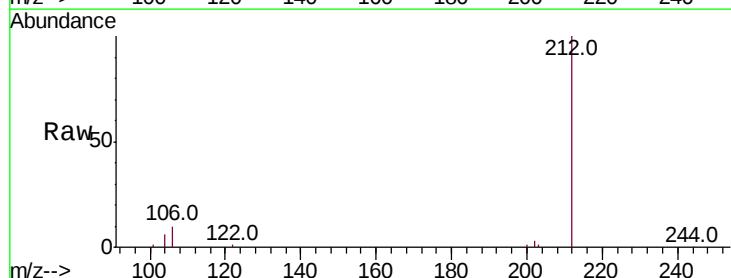
Tgt Ion:212 Resp: 33223

Ion Ratio Lower Upper

212 100

106 10.5 8.2 12.2

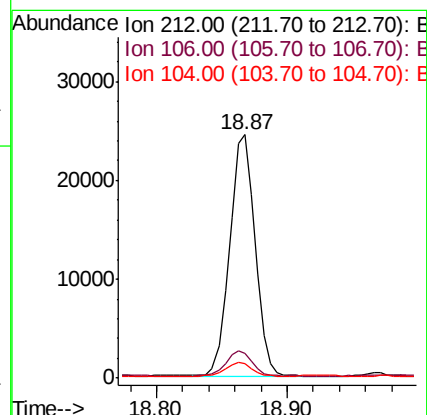
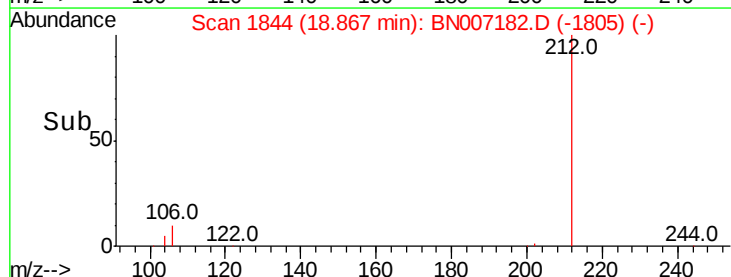
104 5.7 4.5 6.7

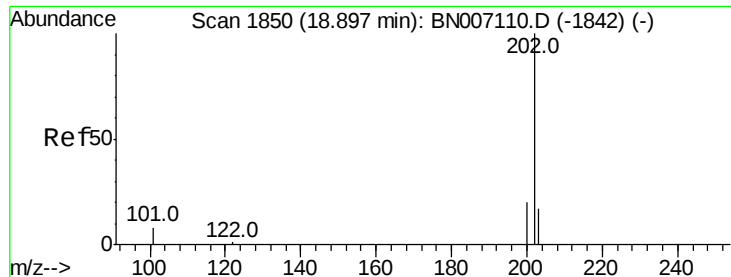


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 0.814 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Instrument :

BNA_N

ClientSampleId :

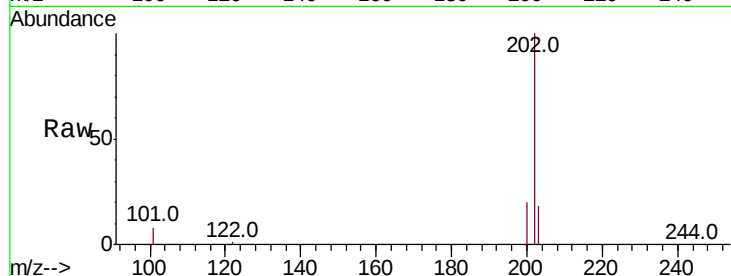
Tot Ion:202 Resp: 107286

Ion Ratio Lower Upper

202 100

101 8.9 7.0 10.4

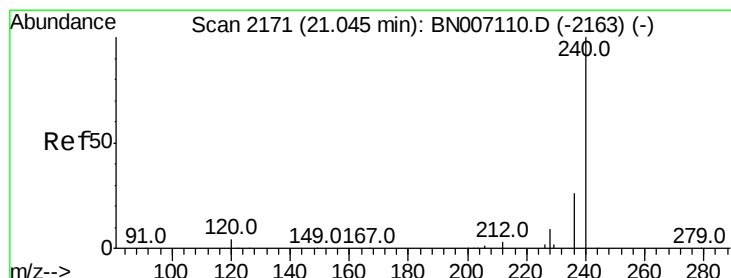
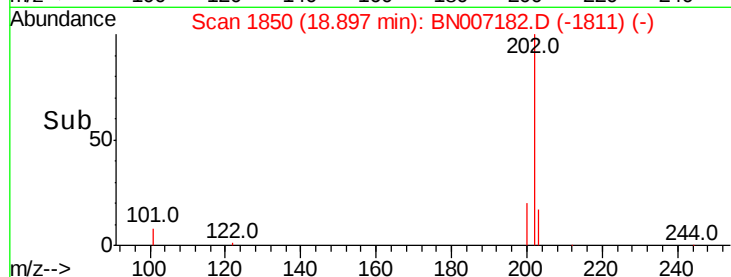
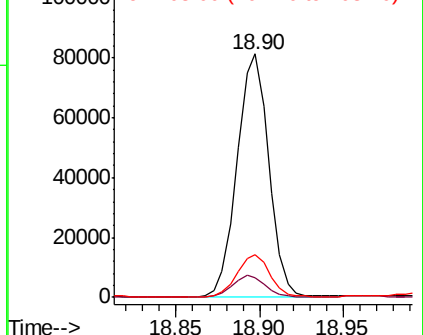
203 17.4 13.8 20.8



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: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

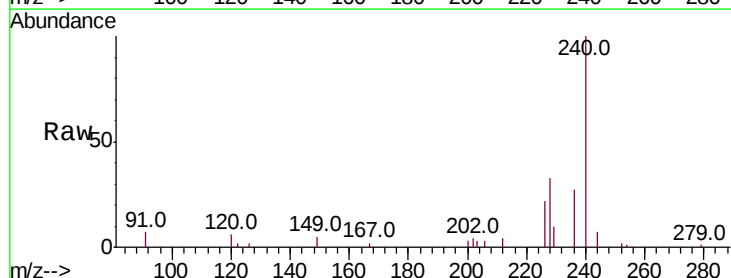
Tgt Ion:240 Resp: 34829

Ion Ratio Lower Upper

240 100

120 5.7 4.0 6.0

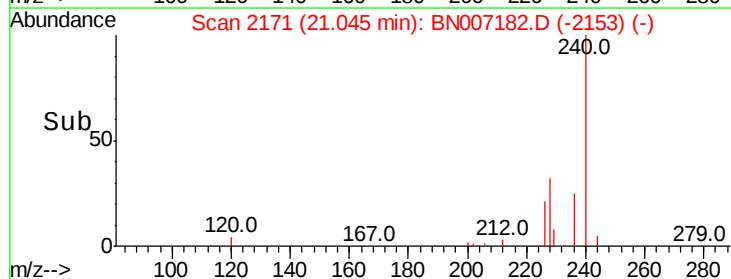
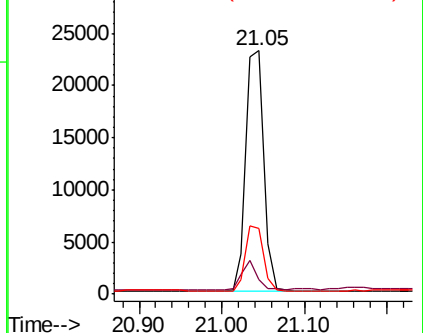
236 26.8 21.3 31.9

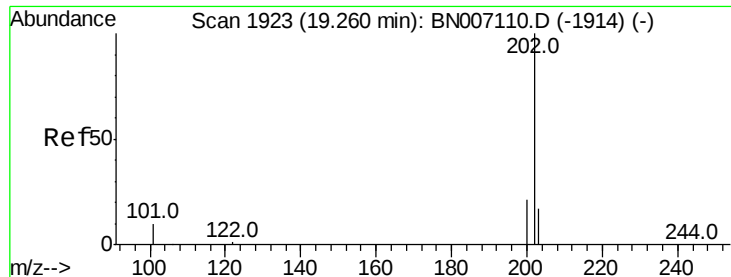


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

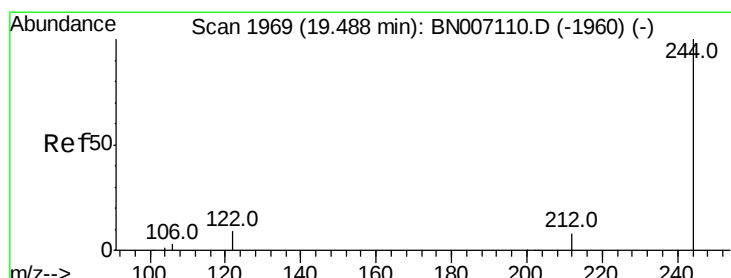
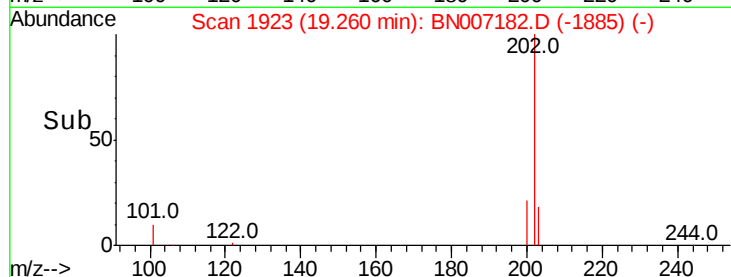
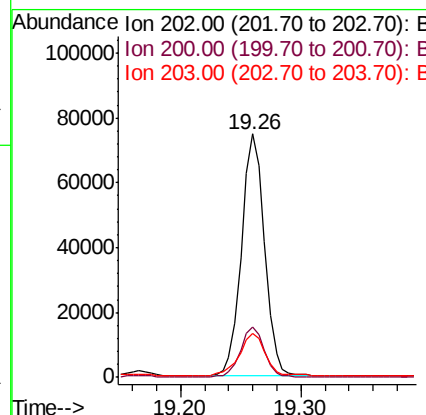
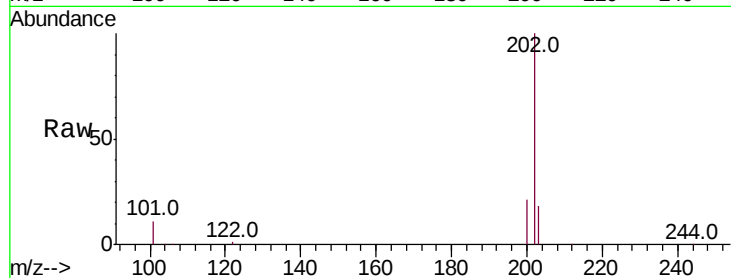




#27
Pvrene
Concen: 0.821 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007182.D
Acq: 15 Aug 2019 02:29

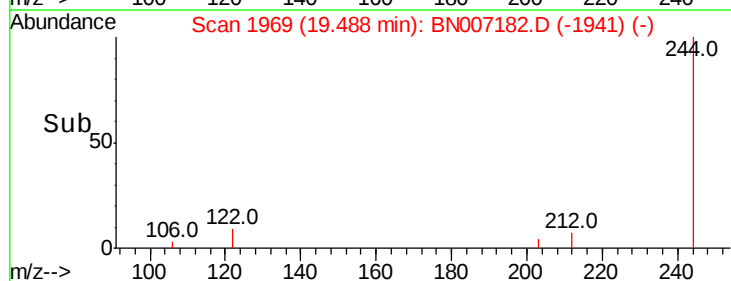
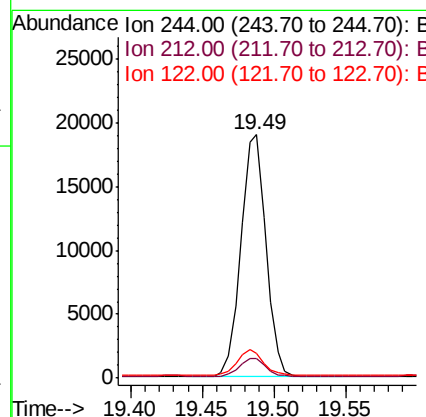
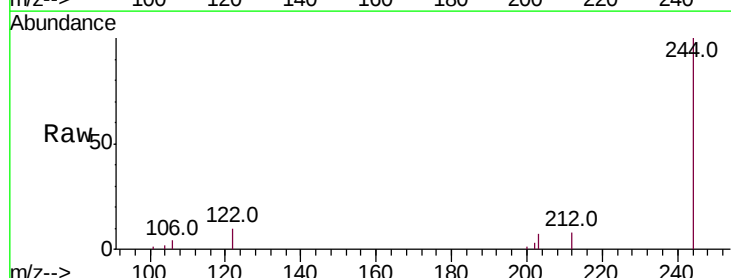
Instrument :
BNA_N
ClientSampleId :

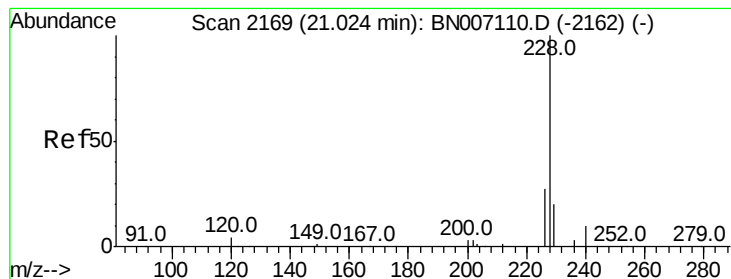
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.6	24.8
203	20.8	14.0	21.0



#28
Terphenyl-d14
Concen: 0.245 ng
RT: 19.49 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BN007182.D
Acq: 15 Aug 2019 02:29

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.2	9.2
122	9.9	7.4	11.2





#29

Benzo(a)anthracene

Concen: 0.553 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

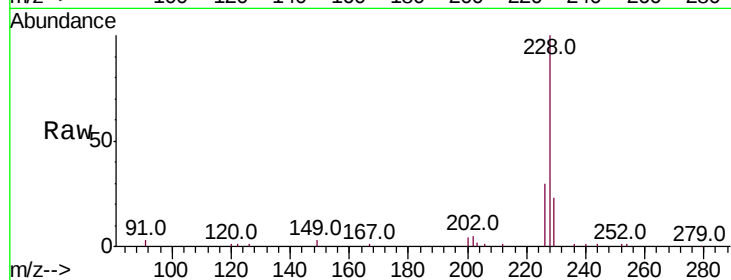
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 70438

Ion	Ratio	Lower	Upper
228	100		
226	30.0	21.8	32.6
229	23.4	15.6	23.4

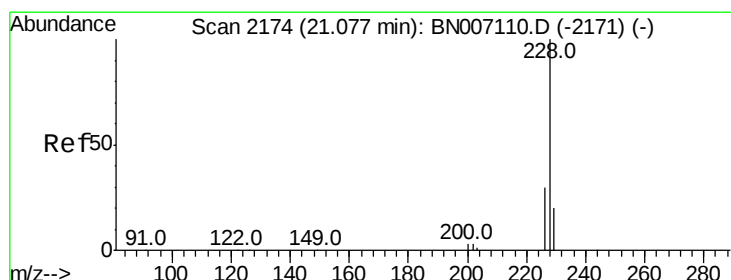
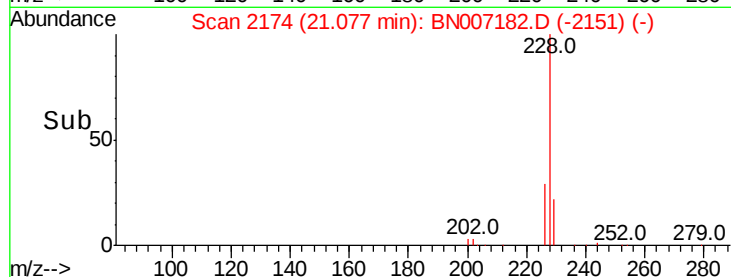
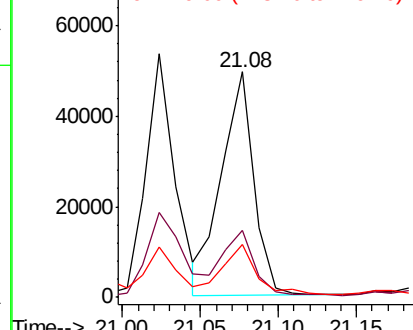


Abundance

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: 0.567 ng

RT: 21.08 min Scan# 2174

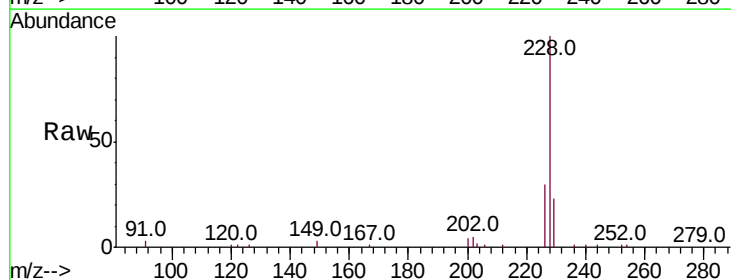
Delta R.T. -0.01 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Tgt Ion:228 Resp: 70114

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.6
229	23.4	15.7	23.5

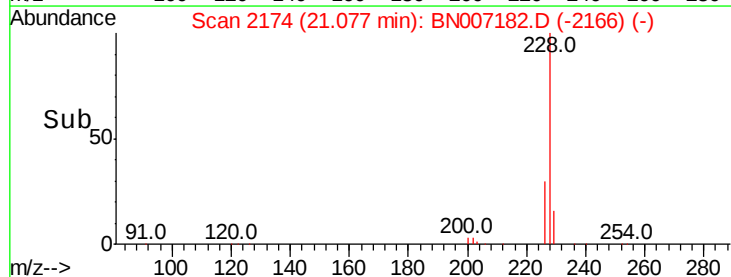
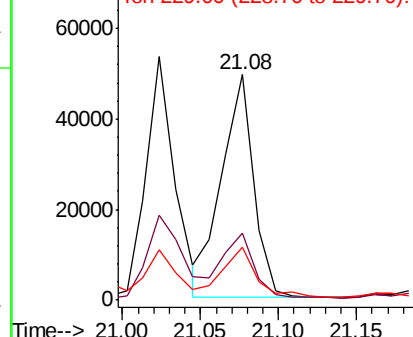


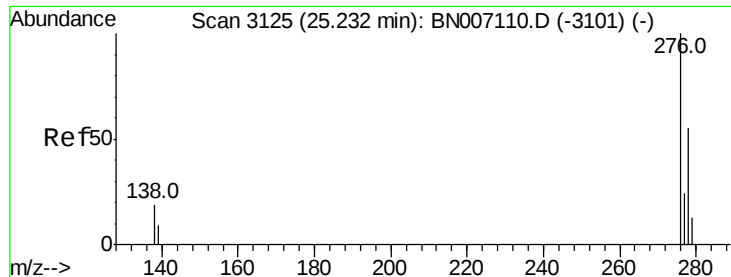
Abundance

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: 0.331 ng

RT: 25.23 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Instrument :

BNA_N

ClientSampleId :

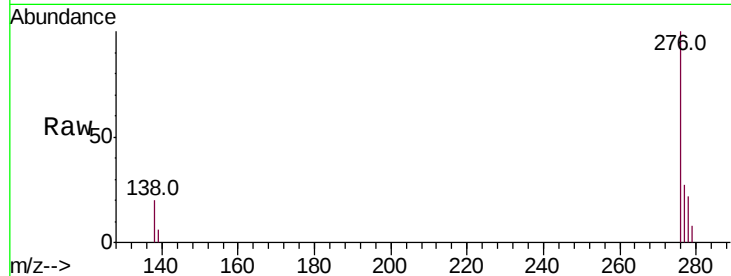
Tot Ion:276 Resp: 45178

Ion Ratio Lower Upper

276 100

138 18.5 16.0 24.0

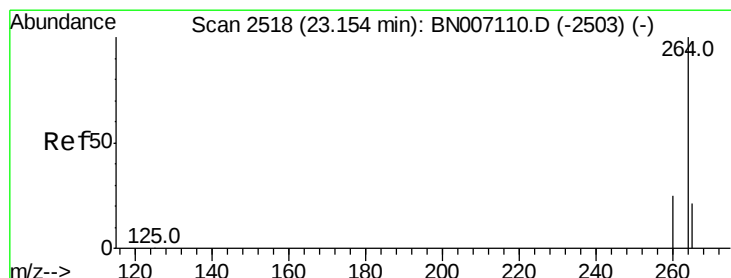
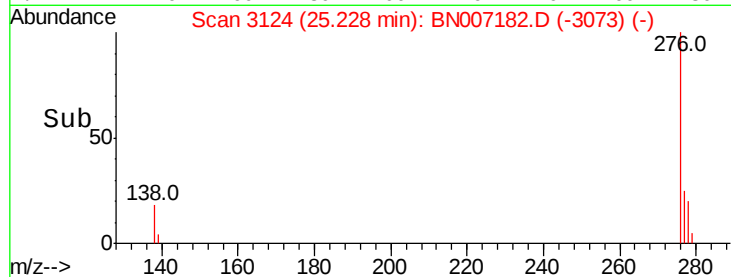
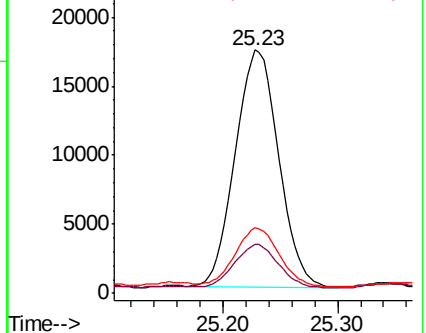
277 25.1 19.9 29.9



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: 23.16 min Scan# 2519

Delta R.T. -0.01 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

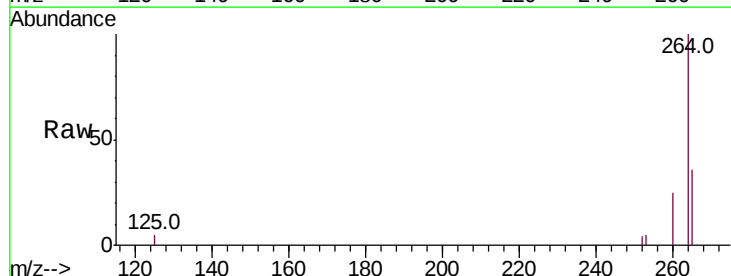
Tgt Ion:264 Resp: 39547

Ion Ratio Lower Upper

264 100

260 25.3 19.8 29.8

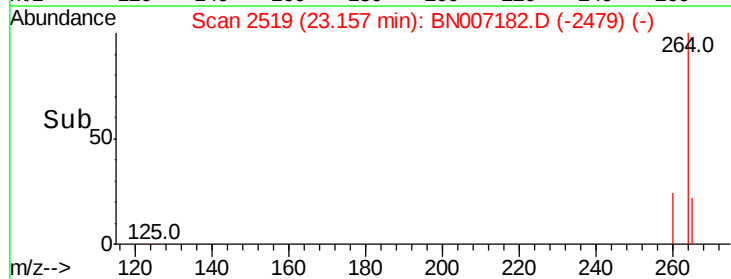
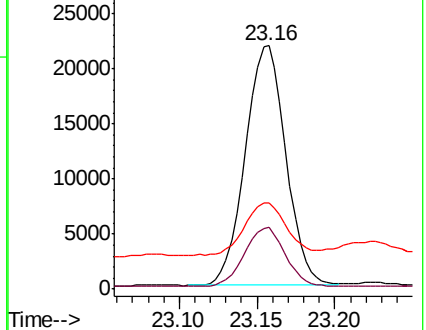
265 35.5 26.2 39.4

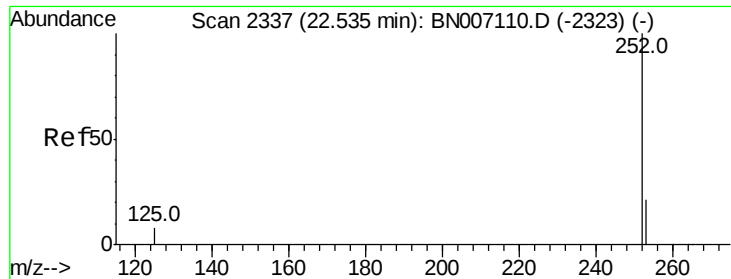


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 0.700 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.01 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Instrument :

BNA_N

ClientSampleId :

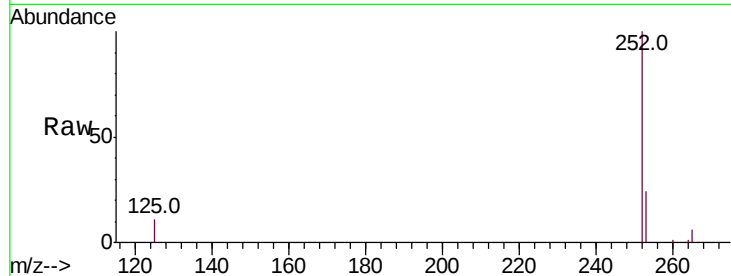
Tot Ion:252 Resp: 94860

Ion Ratio Lower Upper

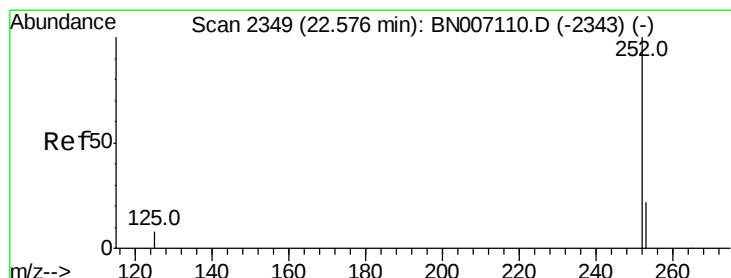
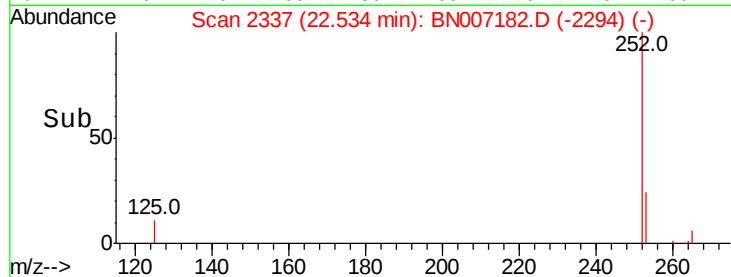
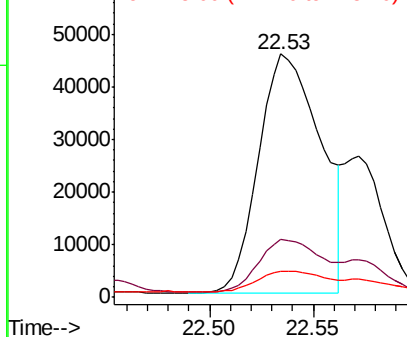
252 100

253 23.9 18.2 27.2

125 10.6 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: 0.708 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.06 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

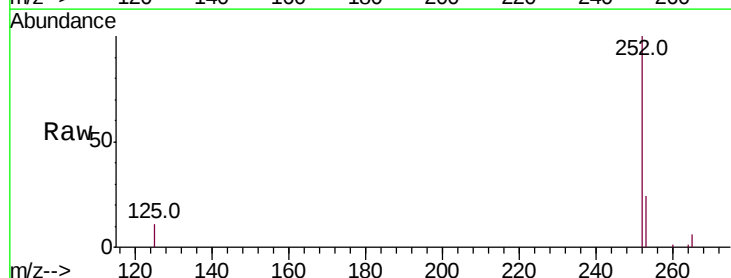
Tgt Ion:252 Resp: 94860

Ion Ratio Lower Upper

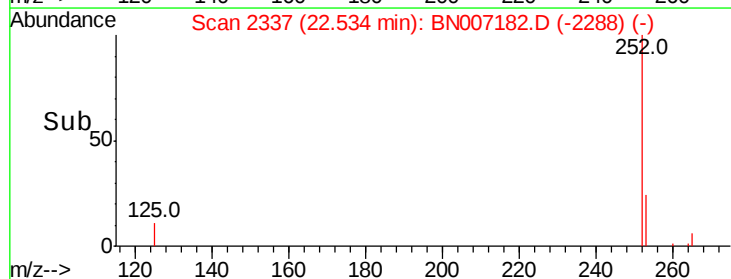
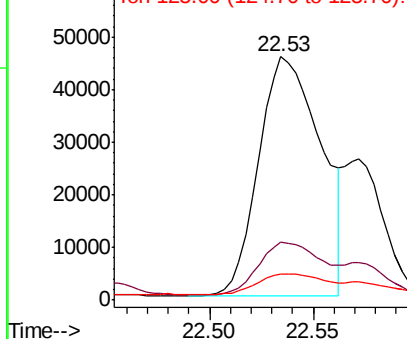
252 100

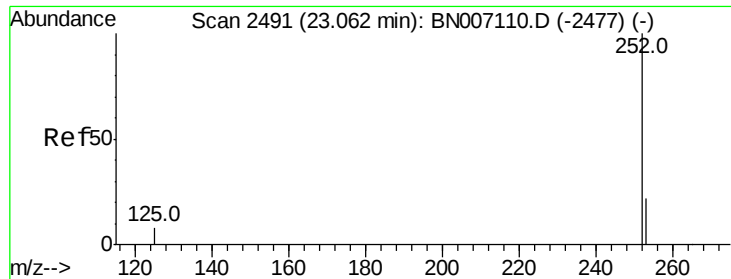
253 23.9 18.1 27.1

125 10.6 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: 0.537 ng

RT: 23.06 min Scan# 2491

Delta R.T. -0.02 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Instrument :

BNA_N

ClientSampleId :

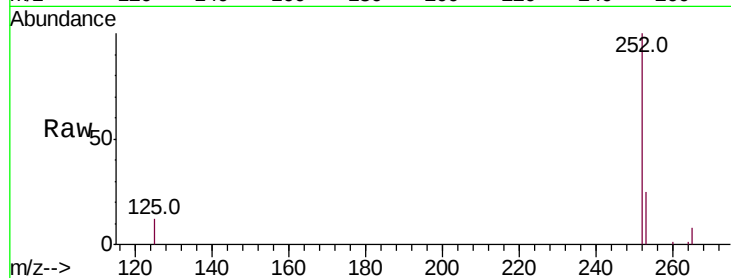
Tot Ion:252 Resp: 66071

Ion Ratio Lower Upper

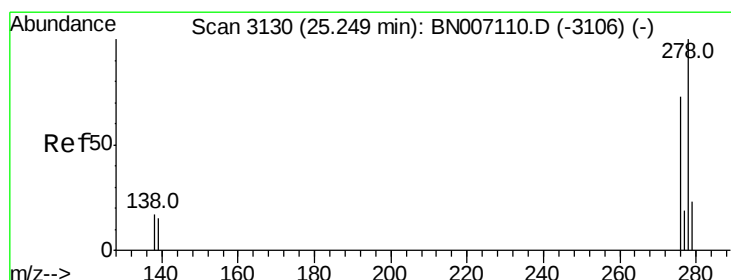
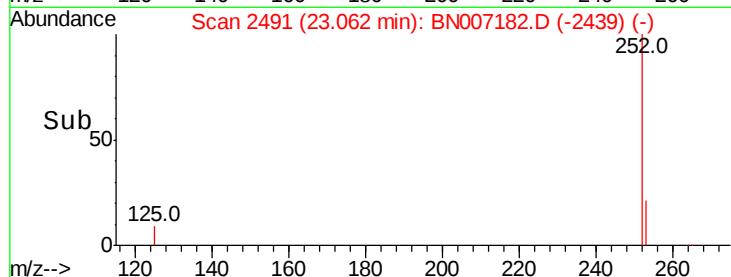
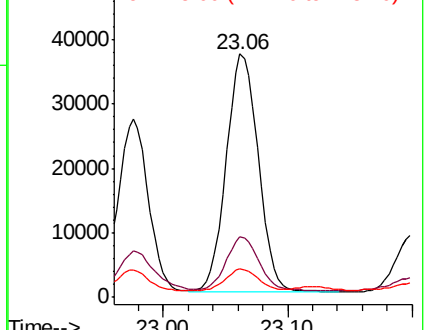
252 100

253 24.7 18.5 27.7

125 11.8 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: 0.100 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.04 min

Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

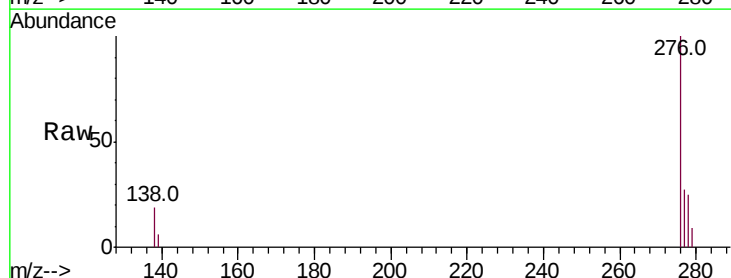
Tgt Ion:278 Resp: 12317

Ion Ratio Lower Upper

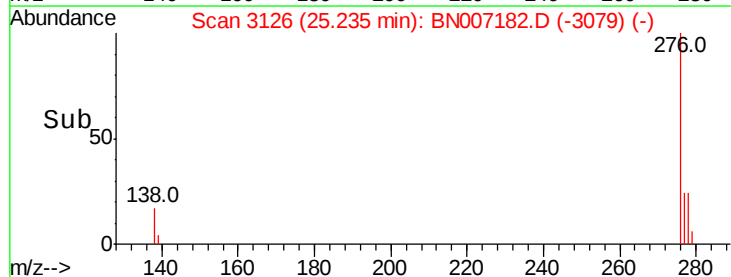
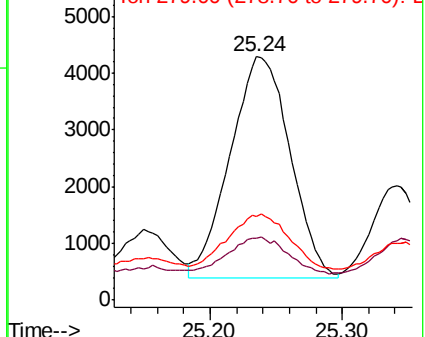
278 100

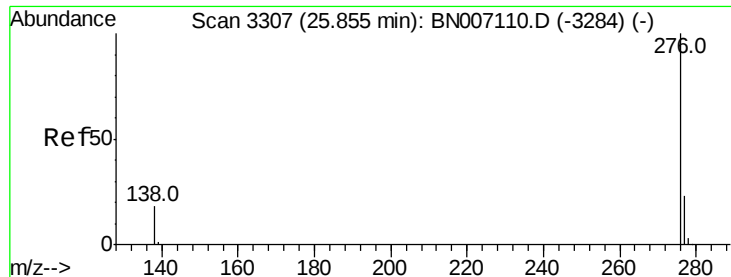
139 25.3 11.3 16.9#

279 34.6 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: 0.323 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

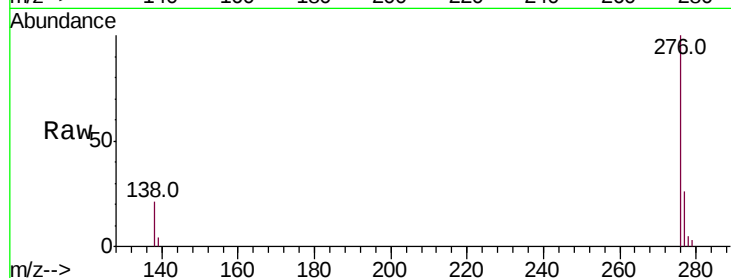
Lab File: BN007182.D

Acq: 15 Aug 2019 02:29

Instrument :

BNA_N

ClientSampleId :



Tot Ion:276 Resp: 40700

Ion Ratio Lower Upper

276 100

277 26.3 19.8 29.8

138 20.6 14.6 22.0

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

