

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN082619\
 Data File : BN007420.D
 Acq On : 26 Aug 2019 21:24
 Operator : HP/JU
 Sample : K4515-09
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S302A-J-1.5-2.0-082319

Quant Time: Aug 27 05:47:06 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 24 00:38:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	3497	0.40	ng	0.00
7) Naphthalene-d8	10.16	136	14302	0.40	ng	0.00
13) Acenaphthene-d10	14.05	164	8499	0.40	ng	0.00
19) Phenanthrene-d10	16.80	188	17322	0.40	ng	0.00
27) Chrysene-d12	21.03	240	16085	0.40	ng	0.01
34) Perylene-d12	23.13	264	18075	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.04	112	3730	0.30	ng	0.00
5) Phenol-d6	6.60	99	4734	0.30	ng	0.00
8) Nitrobenzene-d5	8.53	82	3602	0.29	ng	0.00
11) 2-Methylnaphthalene-d10	11.76	152	6745	0.28	ng	0.00
14) 2,4,6-Tribromophenol	15.55	330	1373	0.31	ng	-0.01
15) 2-Fluorobiphenyl	12.66	172	8381	0.24	ng	0.00
25) Fluoranthene-d10	18.85	212	13673	0.25	ng	0.00
29) Terphenyl-d14	19.47	244	10568	0.25	ng	0.00

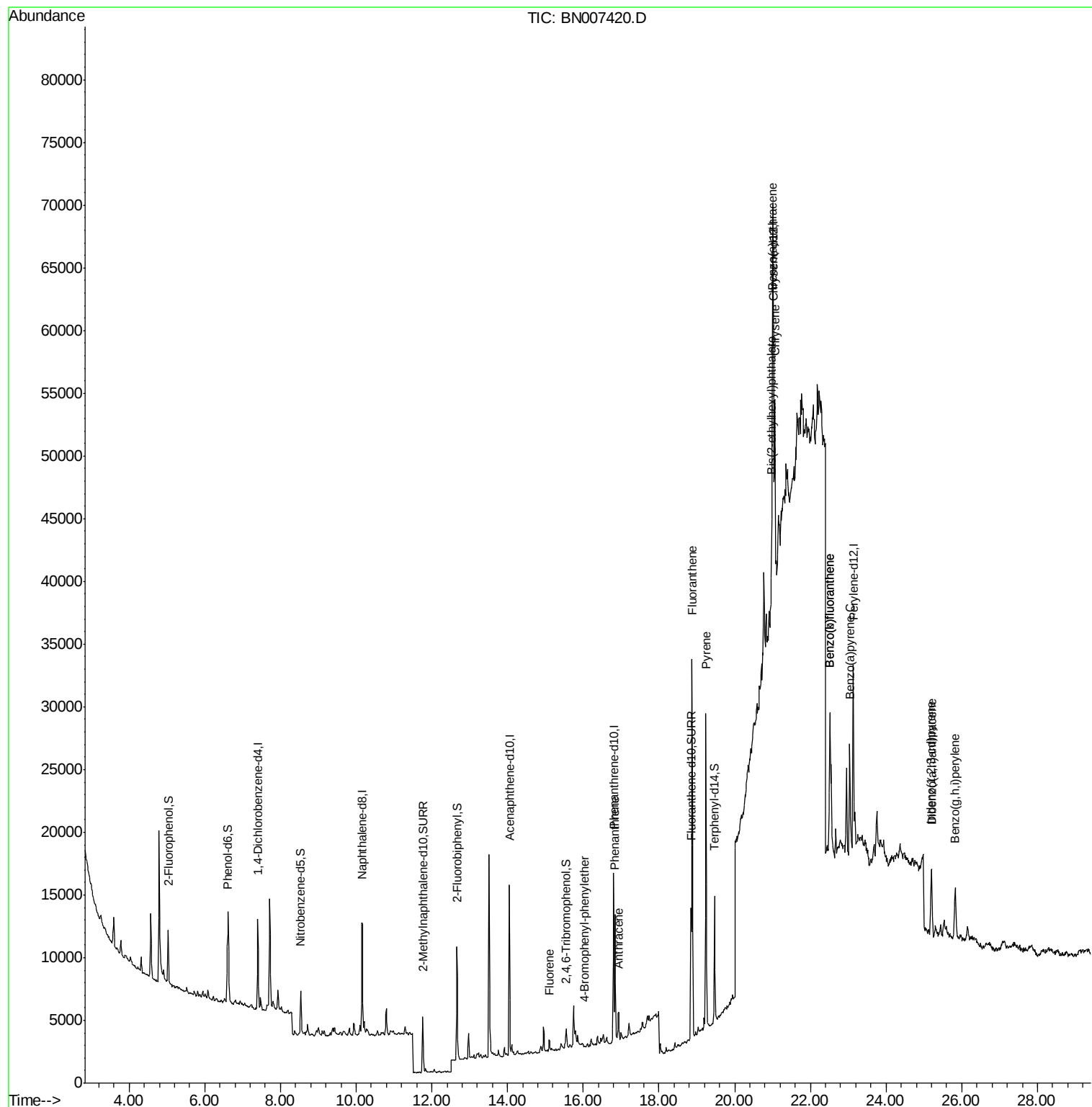
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
18) Fluorene	15.11	166	769	0.021	ng	91
20) 4-Bromophenyl-phenylether	16.04	248	242	0.035	ng	# 1
23) Phenanthrene	16.84	178	10371	0.199	ng	99
24) Anthracene	16.93	178	1831	0.035	ng	# 89
26) Fluoranthene	18.88	202	27703	0.414	ng	99
28) Pyrene	19.24	202	23662	0.366	ng	# 94
30) Benzo(a)anthracene	21.01	228	12104	0.192	ng	# 66
31) Chrysene	21.06	228	12526	0.205	ng	# 69
32) Bis(2-ethylhexyl)phthalate	20.97	149	5703	0.121	ng	# 62
33) Indeno(1,2,3-cd)pyrene	25.20	276	8654	0.118	ng	97
35) Benzo(b)fluoranthene	22.51	252	17435	0.266	ng	# 9
36) Benzo(k)fluoranthene	22.51	252	17435	0.269	ng	# 12
37) Benzo(a)pyrene	23.04	252	11801	0.189	ng	# 1
38) Dibenzo(a,h)anthracene	25.21	278	2160	0.035	ng	# 1
39) Benzo(g,h,i)perylene	25.83	276	8678	0.140	ng	# 32

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.40 min Scan# 568

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

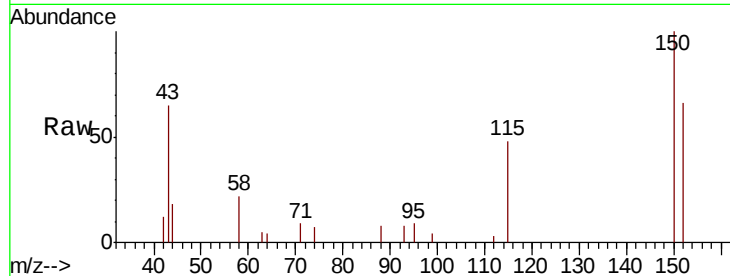
Tgt Ion:152 Resp: 3497

Ion Ratio Lower Upper

152 100

150 151.1 109.1 163.7

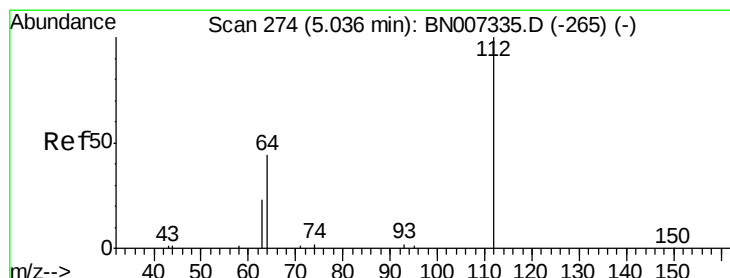
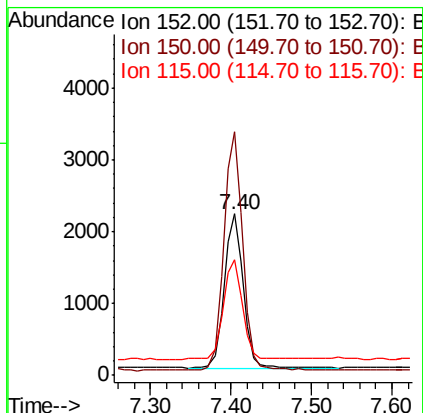
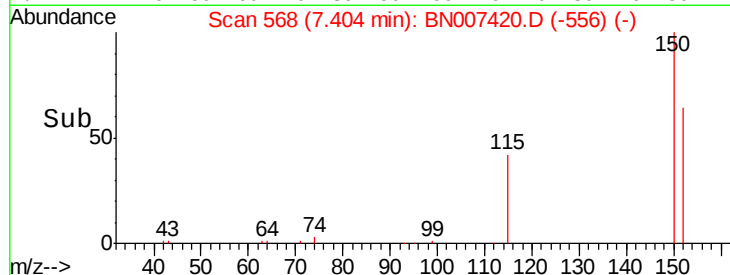
115 71.8 59.6 89.4



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



#4

2-Fluorophenol

Concen: 0.300 ng

RT: 5.04 min Scan# 274

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

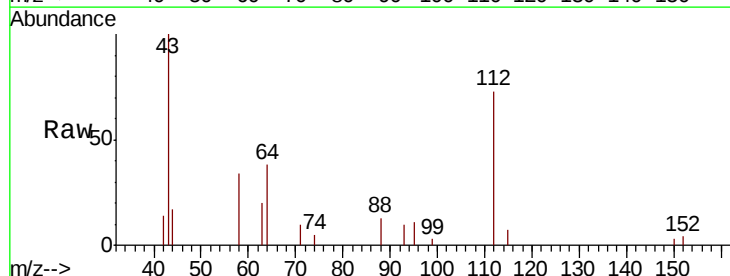
Tgt Ion:112 Resp: 3730

Ion Ratio Lower Upper

112 100

64 52.8 42.3 63.5

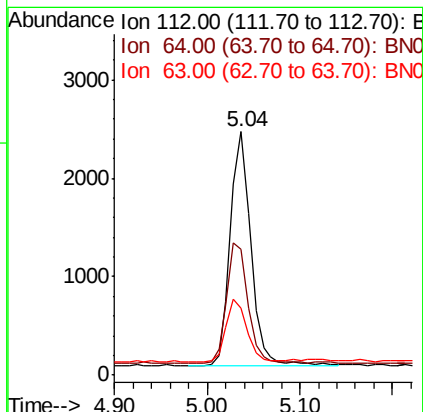
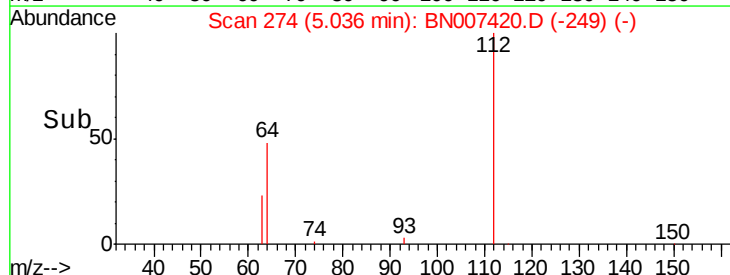
63 26.0 23.6 35.4

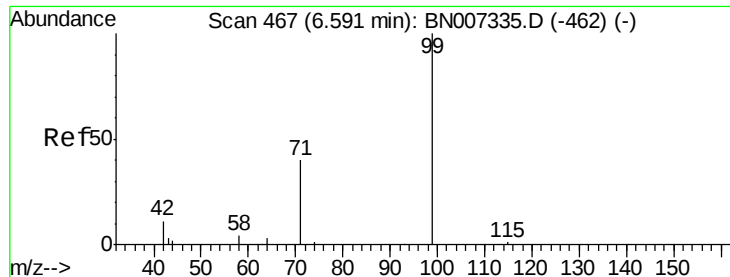


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.299 ng

RT: 6.60 min Scan# 468

Delta R.T. 0.01 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

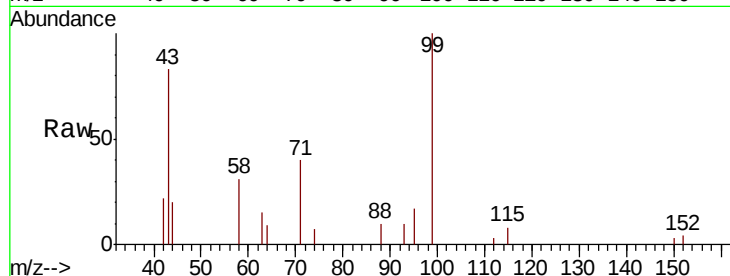
Tgt Ion: 99 Resp: 4734

Ion Ratio Lower Upper

99 100

42 18.1 11.2 16.8#

71 35.2 31.8 47.8

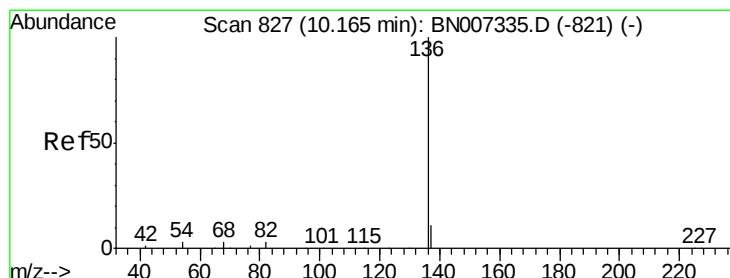
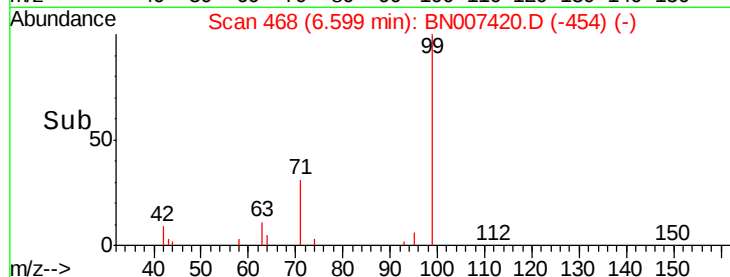
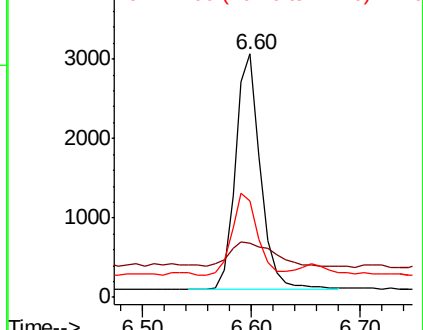


Abundance

Ion 99.00 (98.70 to 99.70): BN0

Ion 42.00 (41.70 to 42.70): BN0

Ion 71.00 (70.70 to 71.70): BN0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.16 min Scan# 827

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Tgt Ion: 136 Resp: 14302

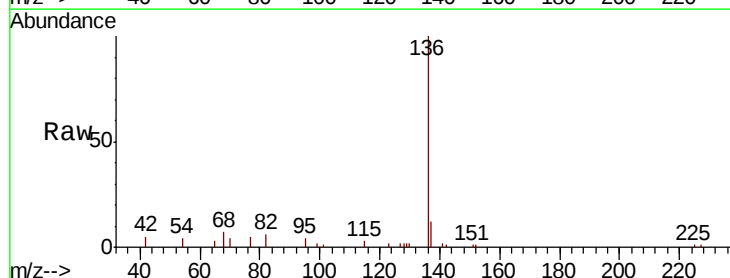
Ion Ratio Lower Upper

136 100

137 12.0 12.9 19.3#

54 4.3 8.6 12.8#

68 6.6 17.0 25.4#



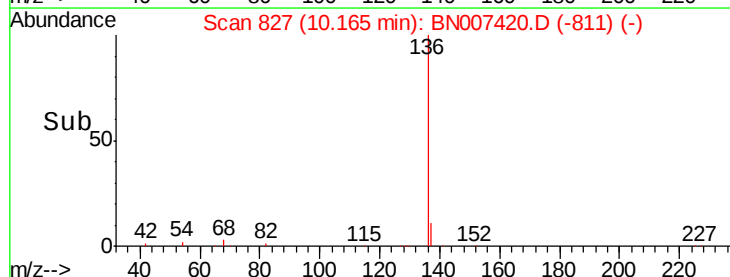
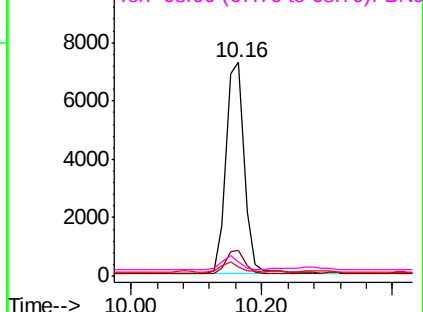
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BN0

Ion 68.00 (67.70 to 68.70): BN0

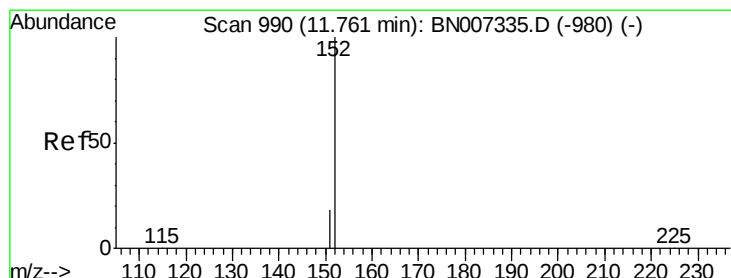
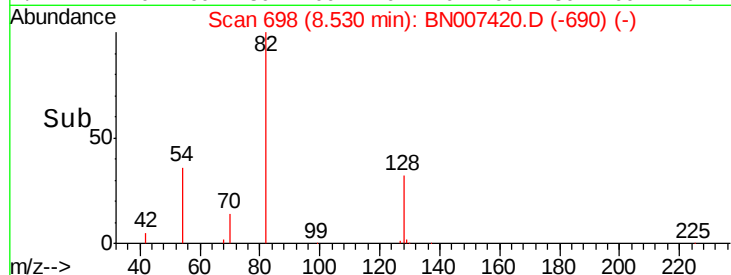
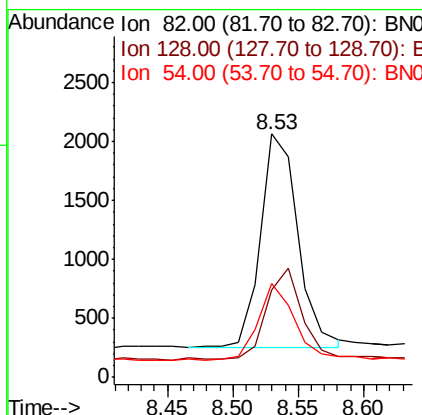
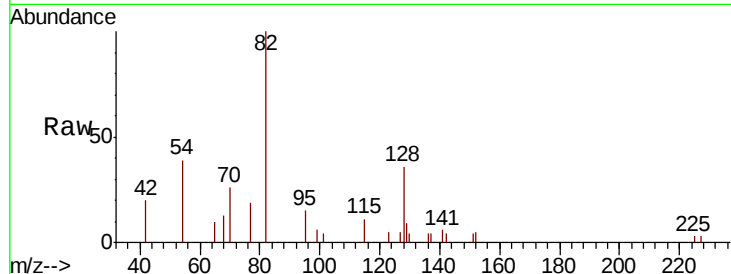




#8
 Nitrobenzene-d5
 Concen: 0.289 ng
 RT: 8.53 min Scan# 698
 Delta R.T. 0.00 min
 Lab File: BN007420.D
 Acq: 26 Aug 2019 21:24

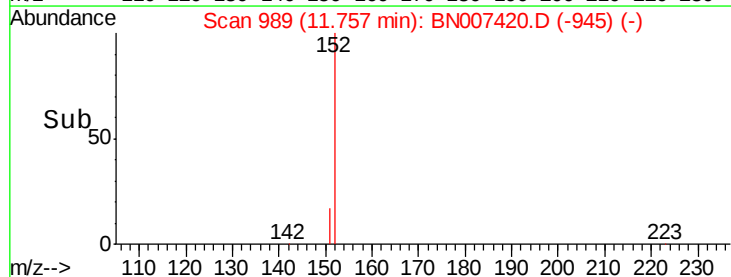
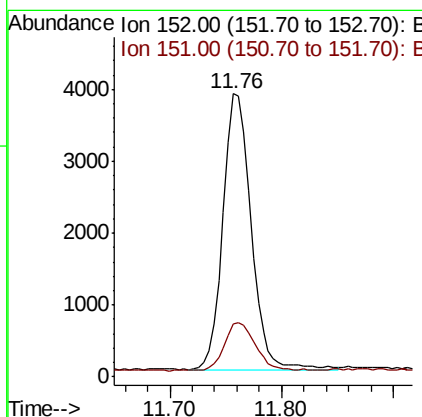
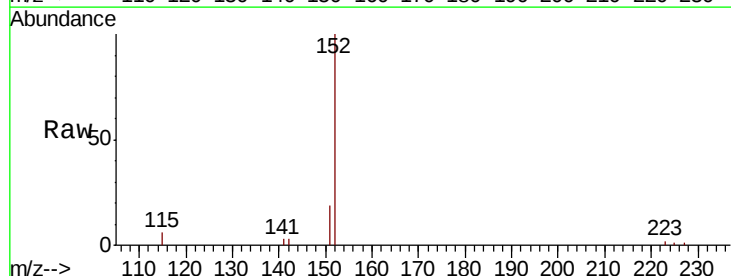
Instrument :
 BNA_N
 ClientSampleId :
 S302A-J-1.5-2.0-082319

Tgt Ion	Ratio	Lower	Upper
82	100		
128	35.9	19.7	29.5#
54	38.6	25.8	38.6



#11
 2-Methylnaphthalene-d10
 Concen: 0.284 ng
 RT: 11.76 min Scan# 989
 Delta R.T. -0.00 min
 Lab File: BN007420.D
 Acq: 26 Aug 2019 21:24

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.2	24.2





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.05 min Scan# 1296

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

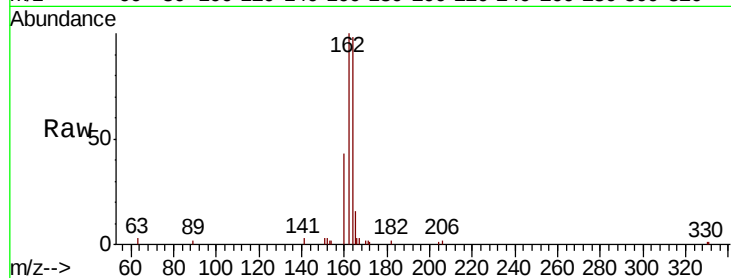
Tgt Ion:164 Resp: 8499

Ion Ratio Lower Upper

164 100

162 101.8 83.5 125.3

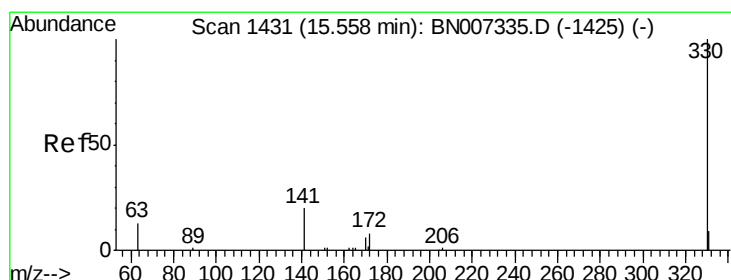
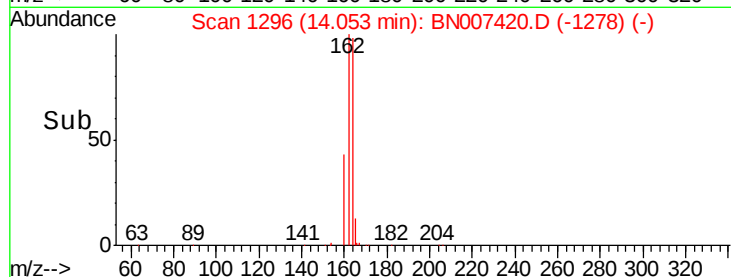
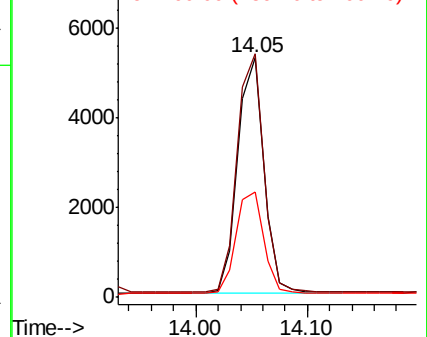
160 44.1 38.2 57.4



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



#14

2,4,6-Tribromophenol

Concen: 0.309 ng

RT: 15.55 min Scan# 1430

Delta R.T. -0.01 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

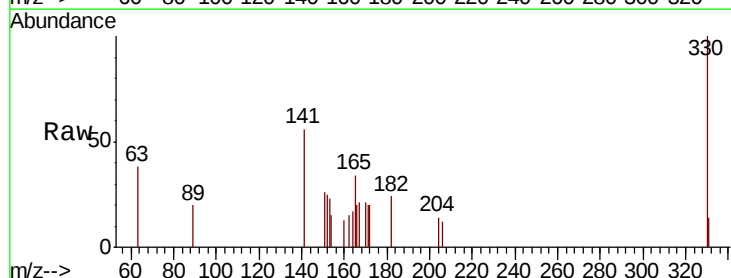
Tgt Ion:330 Resp: 1373

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

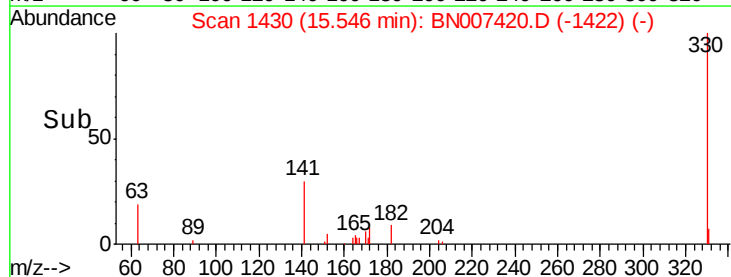
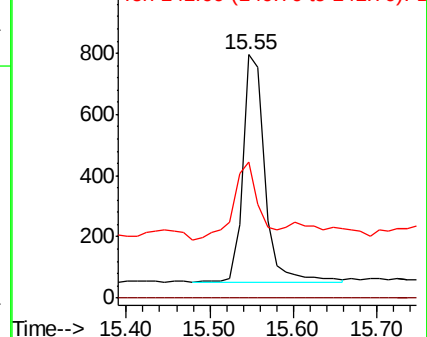
141 37.9 26.9 40.3



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

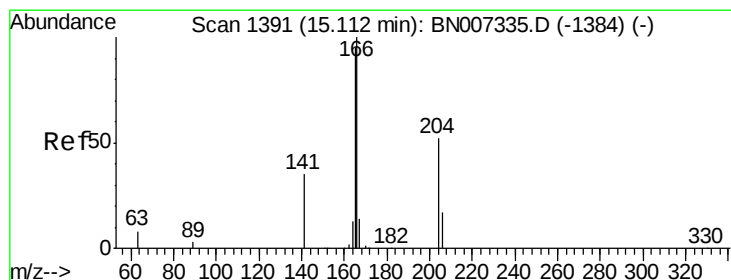
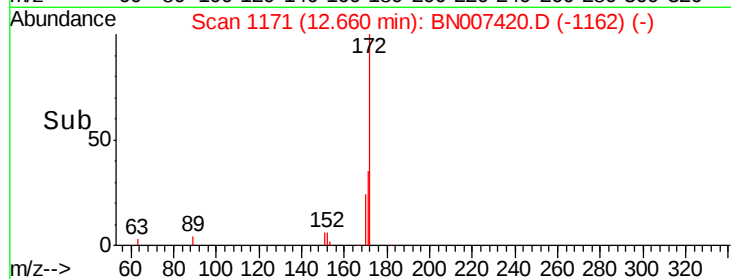
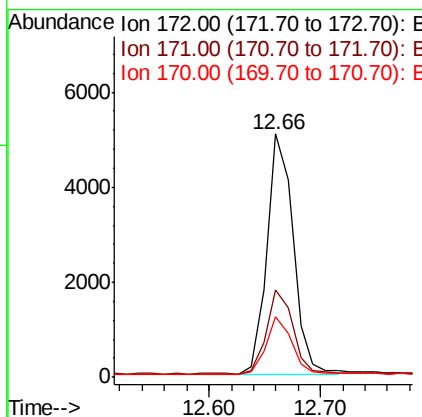
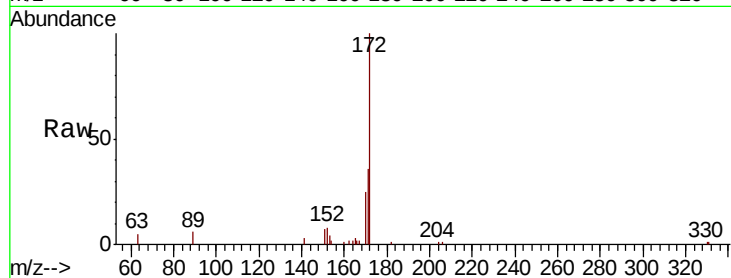




#15
2-Fluorobiphenyl
Concen: 0.245 ng
RT: 12.66 min Scan# 1171
Delta R.T. 0.00 min
Lab File: BN007420.D
Acq: 26 Aug 2019 21:24

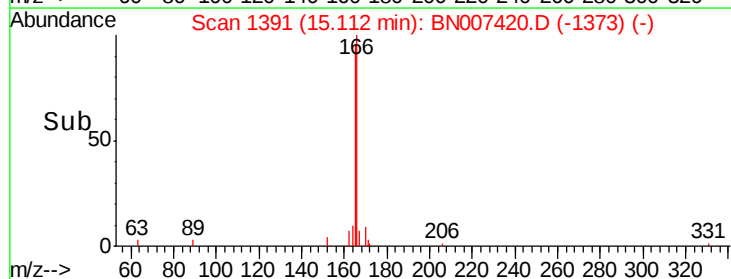
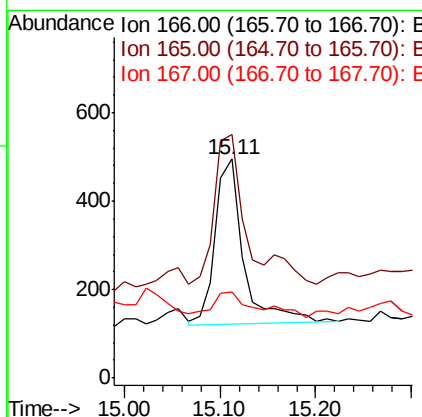
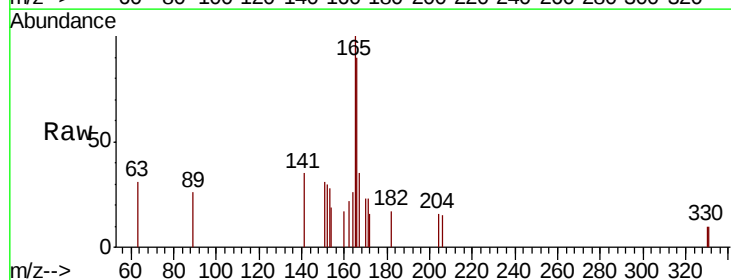
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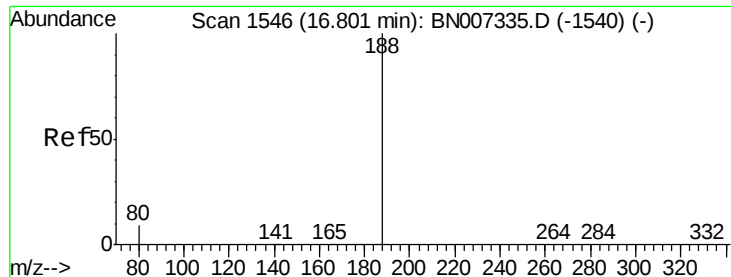
Tgt Ion:172 Resp: 8381
Ion Ratio Lower Upper
172 100
171 36.1 30.3 45.5
170 25.0 20.7 31.1



#18
Fluorene
Concen: 0.021 ng
RT: 15.11 min Scan# 1391
Delta R.T. 0.00 min
Lab File: BN007420.D
Acq: 26 Aug 2019 21:24

Tgt Ion:166 Resp: 769
Ion Ratio Lower Upper
166 100
165 89.2 79.0 118.4
167 13.8 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.80 min Scan# 1546

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

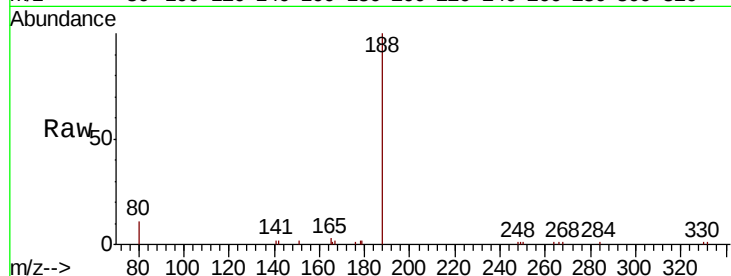
Tgt Ion:188 Resp: 17322

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

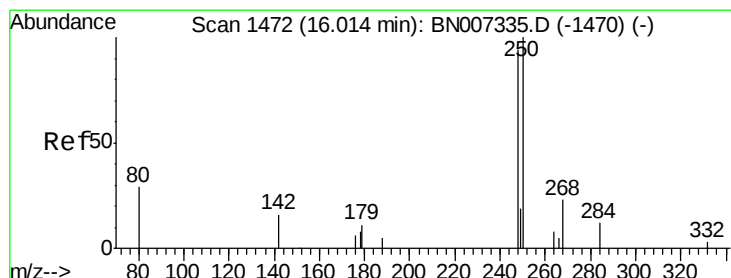
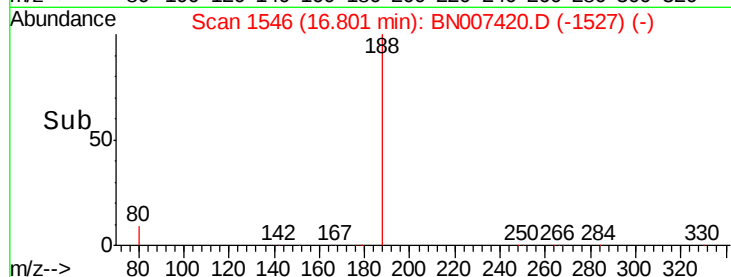
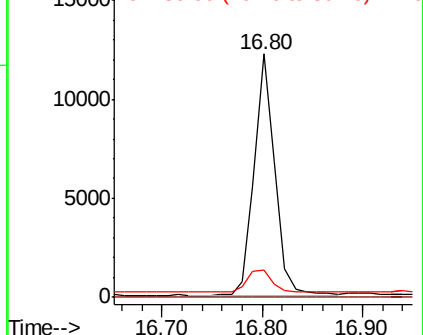
80 11.3 11.8 17.8#



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



#20

4-Bromophenyl-phenylether

Concen: 0.035 ng

RT: 16.04 min Scan# 1474

Delta R.T. 0.02 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

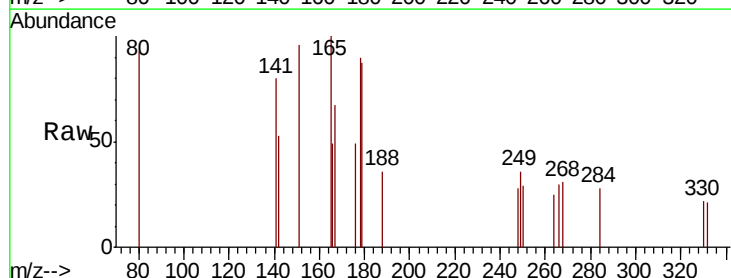
Tgt Ion:248 Resp: 242

Ion Ratio Lower Upper

248 100

250 103.8 85.0 127.6

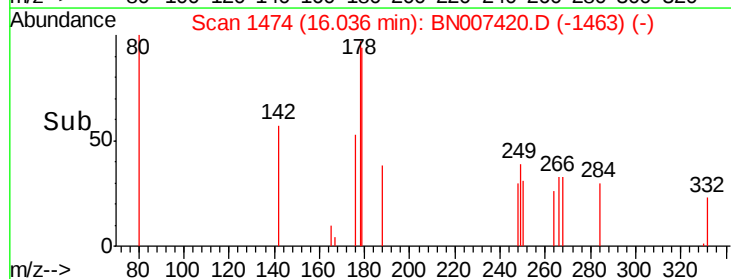
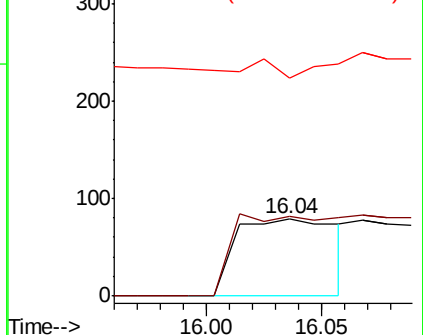
141 283.5 51.7 77.5#

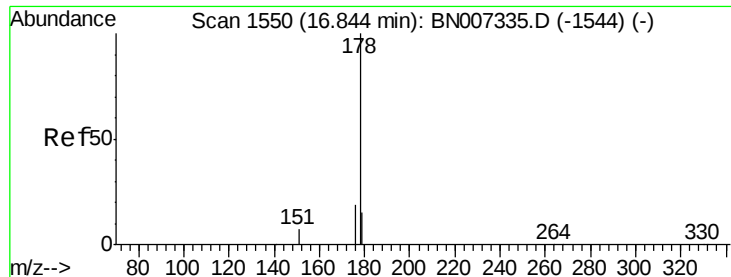


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#23

Phenanthrene

Concen: 0.199 ng

RT: 16.84 min Scan# 1550

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

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ClientSampleId :

S302A-J-1.5-2.0-082319

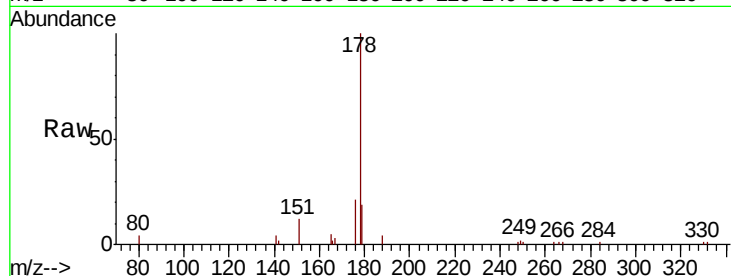
Tgt Ion:178 Resp: 10371

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 14.7 12.6 19.0

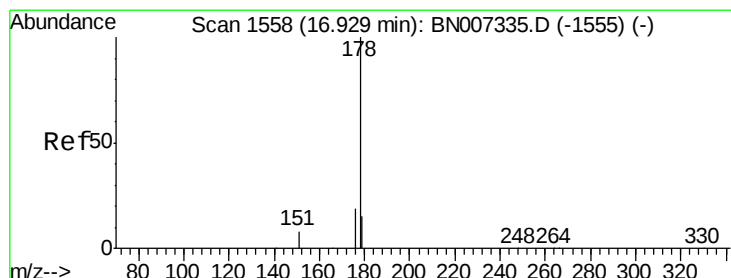
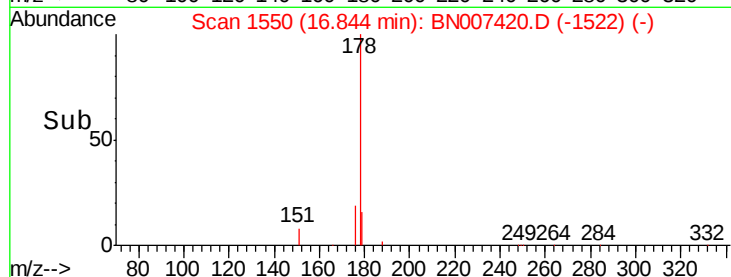
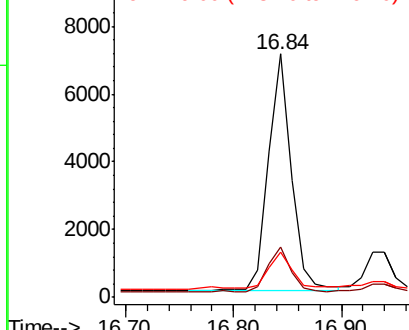


Abundance

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

Anthracene

Concen: 0.035 ng

RT: 16.93 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

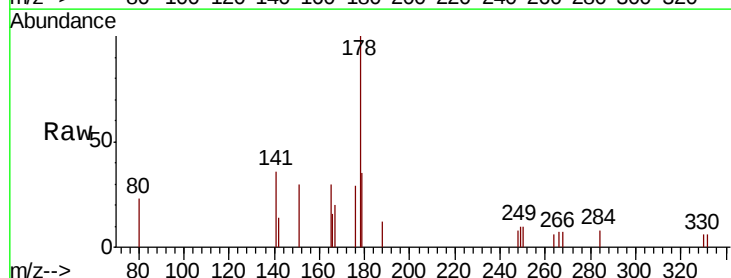
Tgt Ion:178 Resp: 1831

Ion Ratio Lower Upper

178 100

176 21.3 14.9 22.3

179 22.9 12.4 18.6#

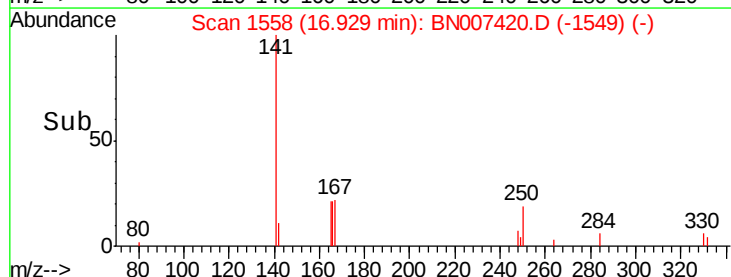
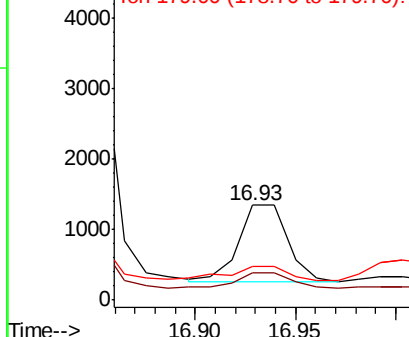


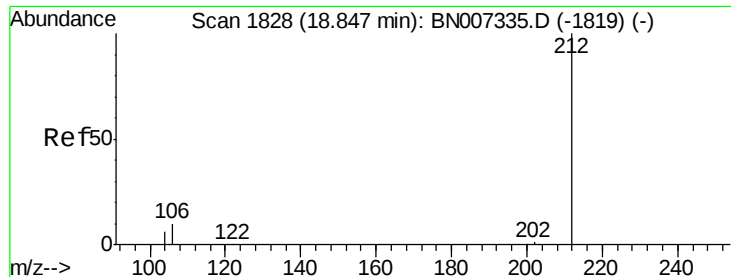
Abundance

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





#25

Fluoranthene-d10

Concen: 0.245 ng

RT: 18.85 min Scan# 1828

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

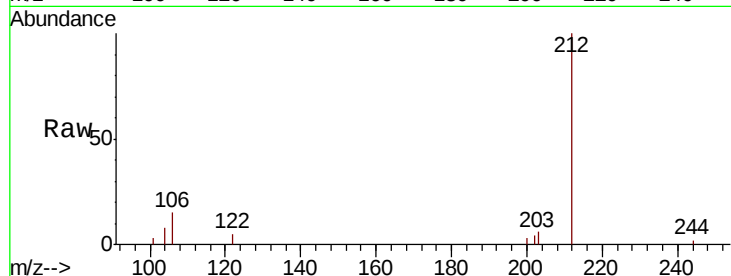
Tgt Ion:212 Resp: 13673

Ion Ratio Lower Upper

212 100

106 12.6 9.0 13.4

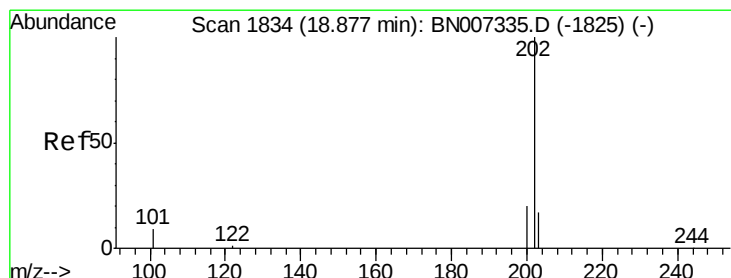
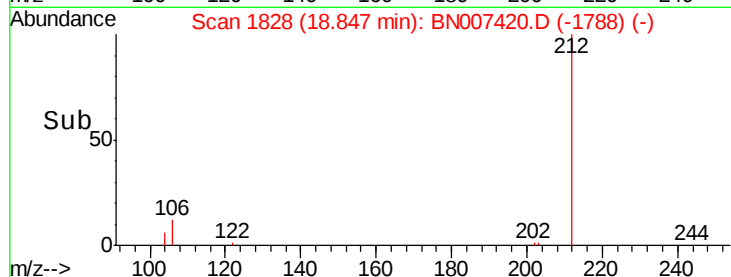
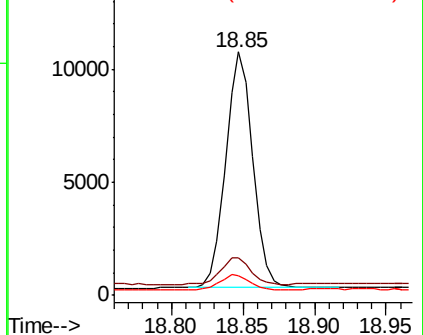
104 6.8 5.4 8.2



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



#26

Fluoranthene

Concen: 0.414 ng

RT: 18.88 min Scan# 1834

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

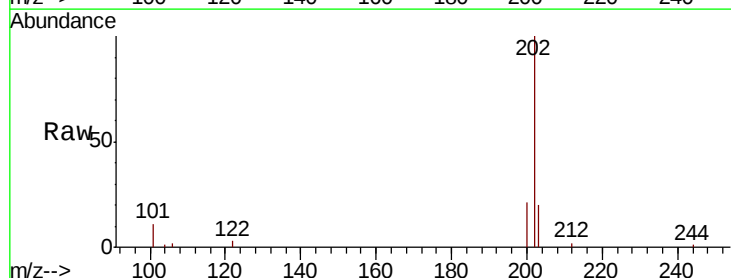
Tgt Ion:202 Resp: 27703

Ion Ratio Lower Upper

202 100

101 10.0 7.7 11.5

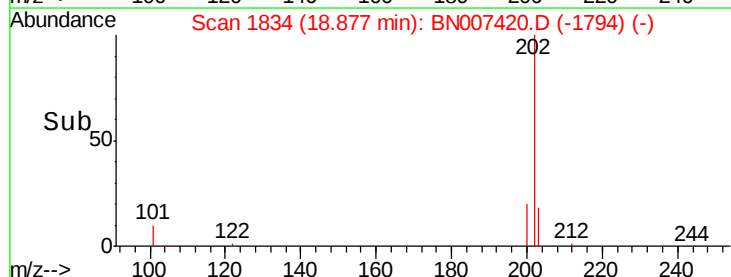
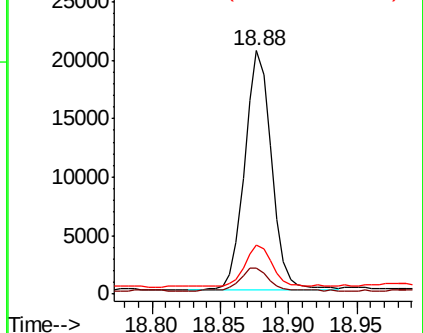
203 17.6 13.7 20.5

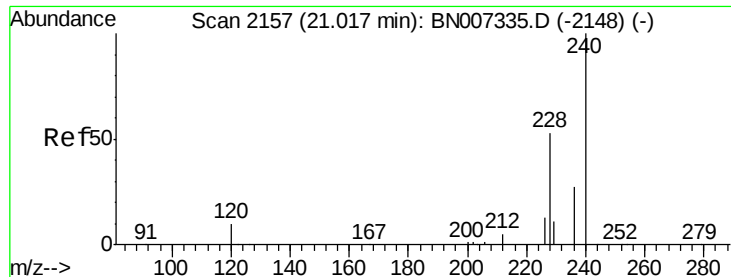


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.03 min Scan# 2158

Delta R.T. 0.01 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

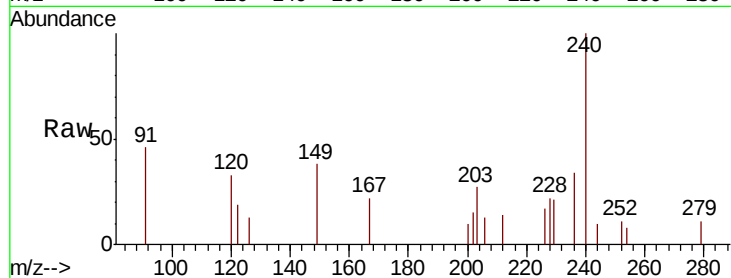
Tgt Ion:240 Resp: 16085

Ion Ratio Lower Upper

240 100

120 32.9 9.6 14.4#

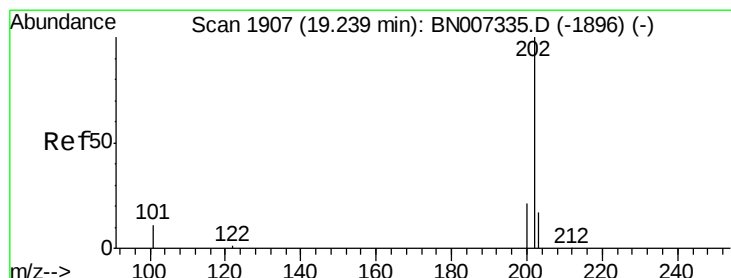
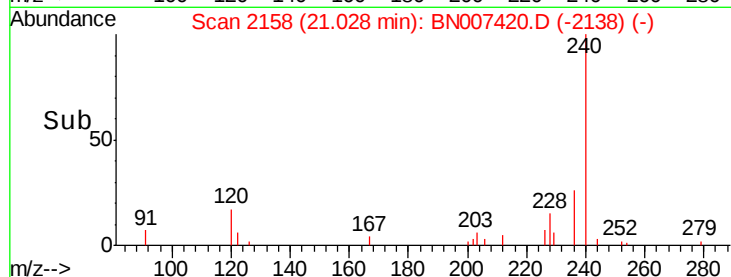
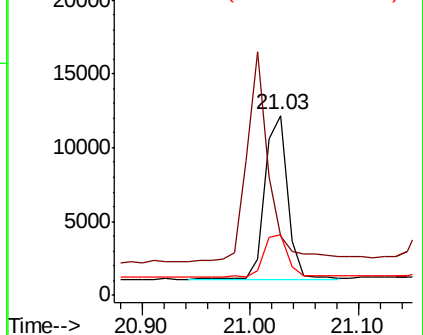
236 33.7 22.2 33.2#



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



#28

Pyrene

Concen: 0.366 ng

RT: 19.24 min Scan# 1908

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

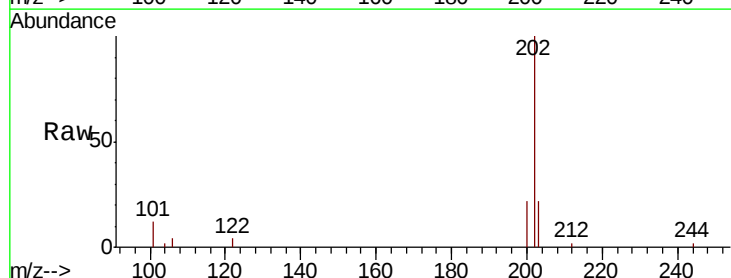
Tgt Ion:202 Resp: 23662

Ion Ratio Lower Upper

202 100

200 21.3 16.6 25.0

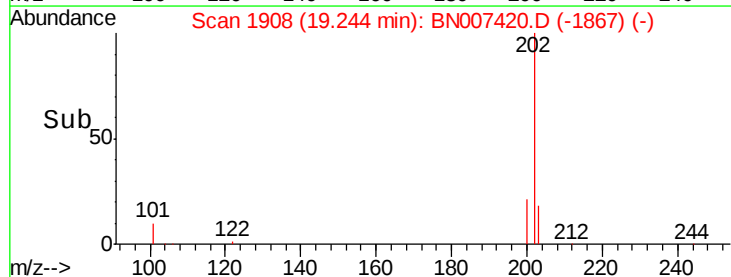
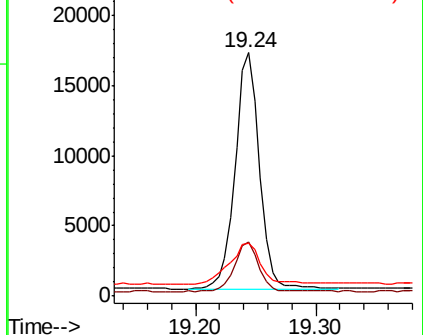
203 22.7 14.2 21.4#

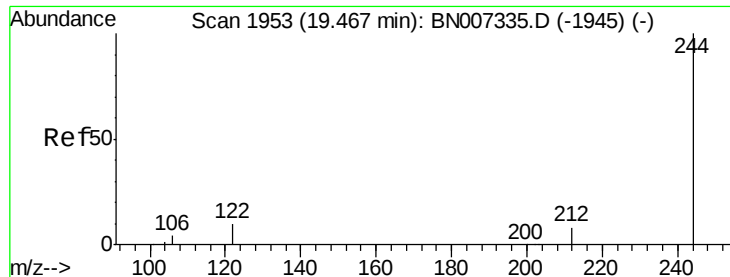


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.251 ng

RT: 19.47 min Scan# 1953

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

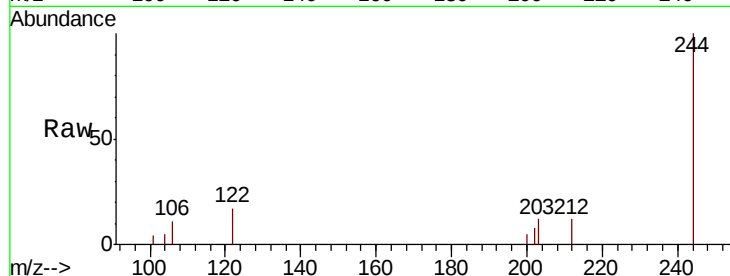
Tgt Ion:244 Resp: 10568

Ion Ratio Lower Upper

244 100

212 12.4 7.0 10.6#

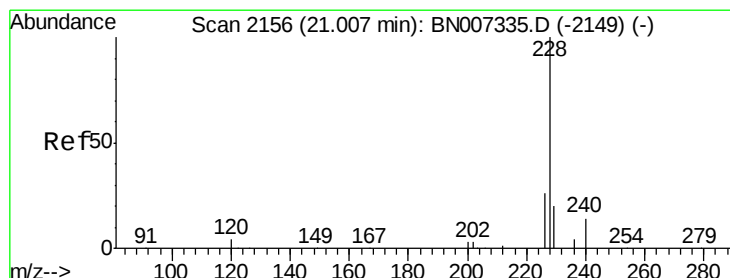
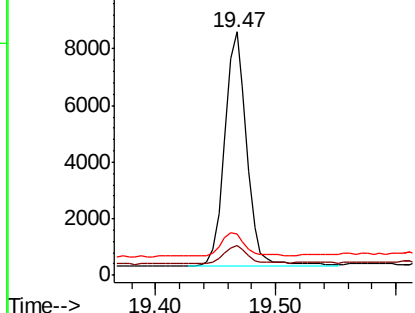
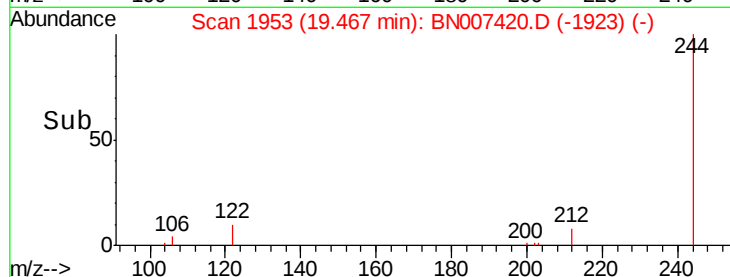
122 17.0 9.6 14.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.192 ng

RT: 21.01 min Scan# 2156

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

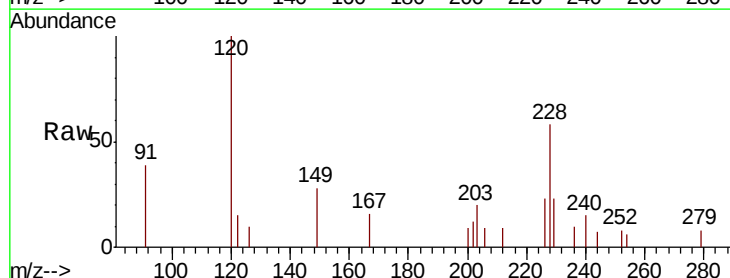
Tgt Ion:228 Resp: 12104

Ion Ratio Lower Upper

228 100

226 40.4 21.3 31.9#

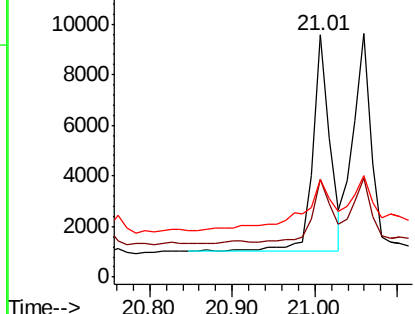
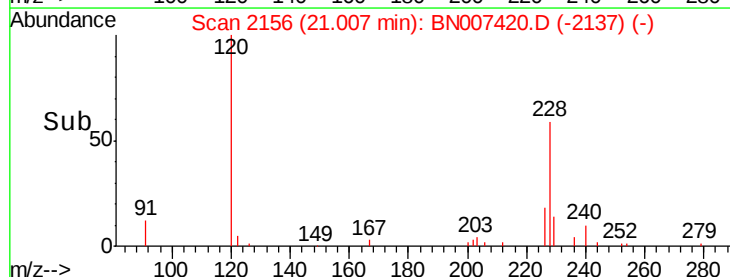
229 40.5 16.1 24.1#

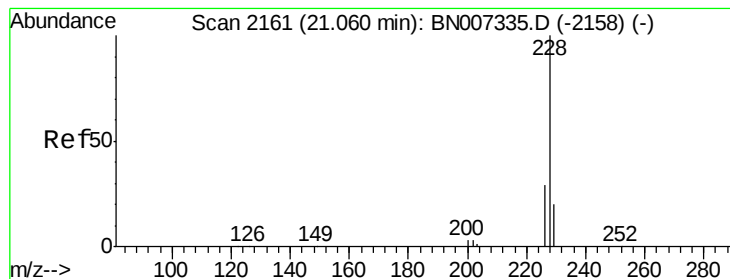


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.205 ng

RT: 21.06 min Scan# 2161

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

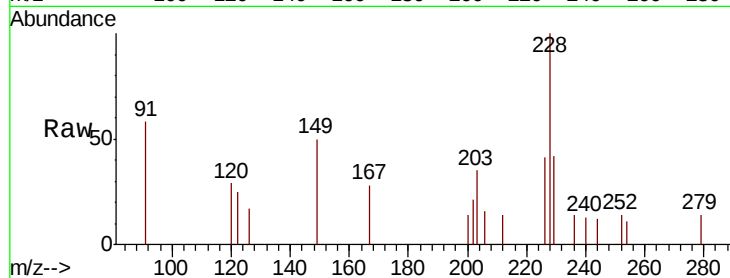
Tgt Ion:228 Resp: 12526

Ion Ratio Lower Upper

228 100

226 40.8 23.5 35.3#

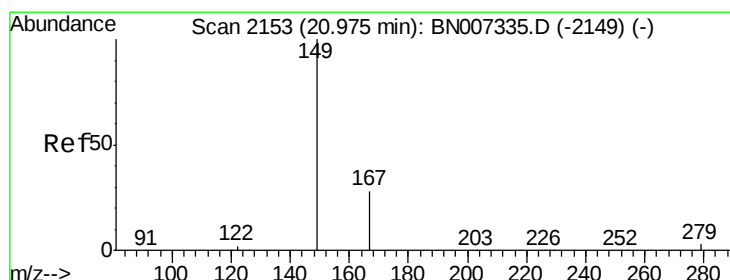
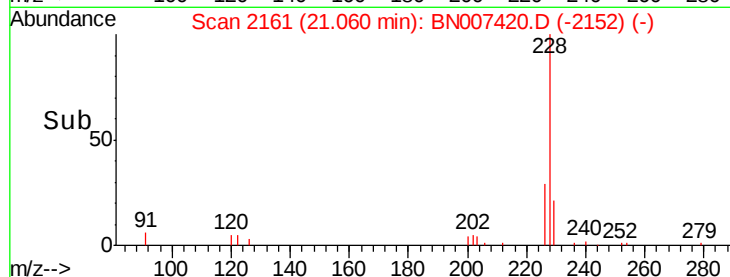
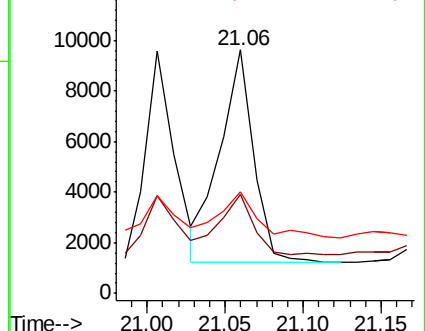
229 41.7 16.6 24.8#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 20.97 min Scan# 2153

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

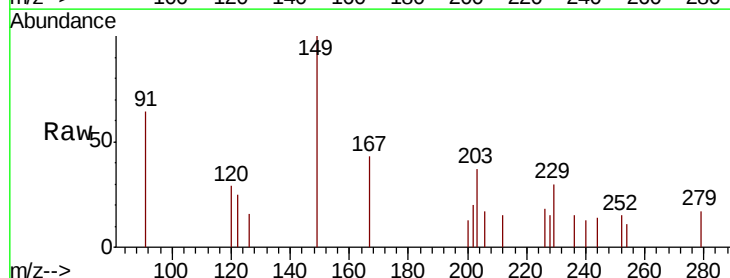
Tgt Ion:149 Resp: 5703

Ion Ratio Lower Upper

149 100

167 50.8 22.8 34.2#

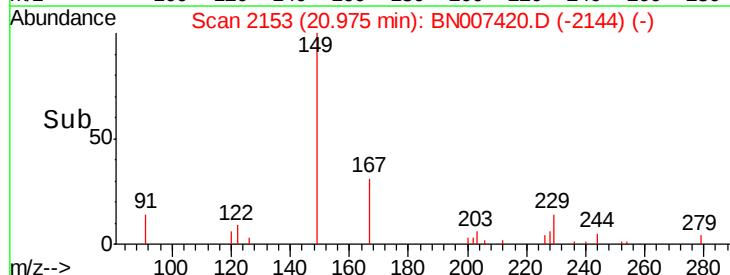
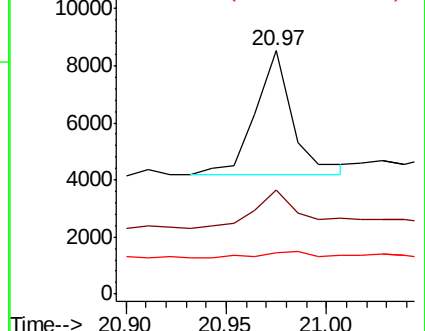
279 8.2 3.5 5.3#

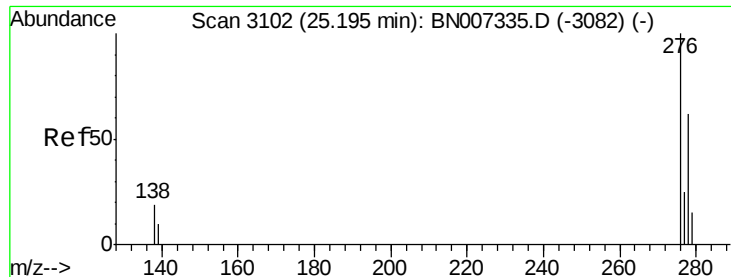


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.118 ng

RT: 25.20 min Scan# 3103

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

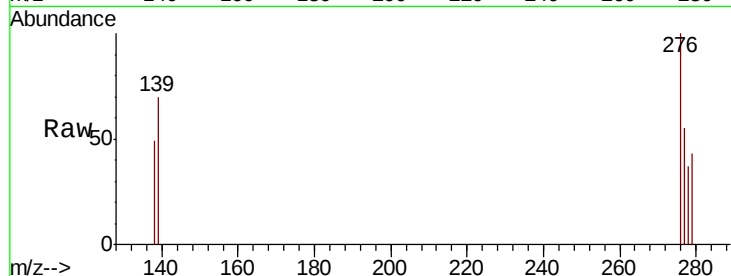
Tgt Ion:276 Resp: 8654

Ion Ratio Lower Upper

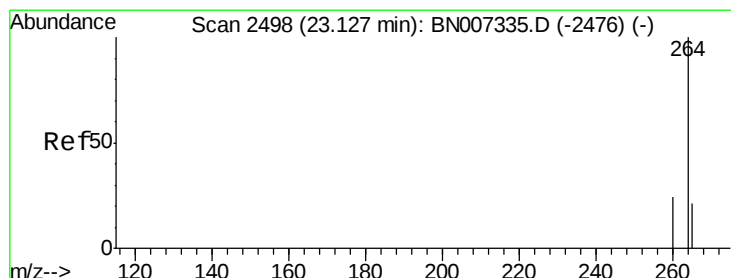
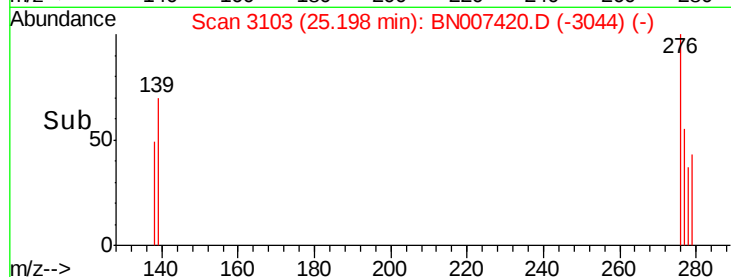
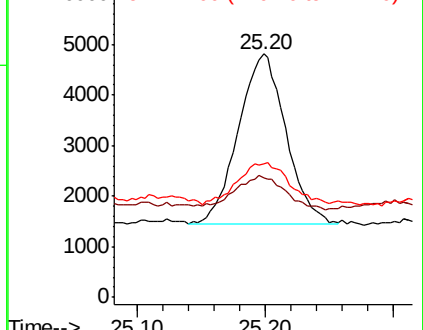
276 100

138 20.0 15.1 22.7

277 26.4 19.7 29.5



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.13 min Scan# 2499

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

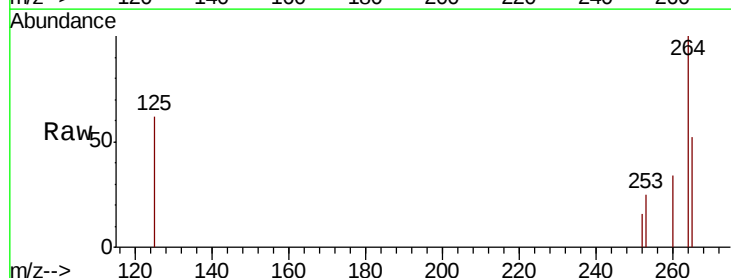
Tgt Ion:264 Resp: 18075

Ion Ratio Lower Upper

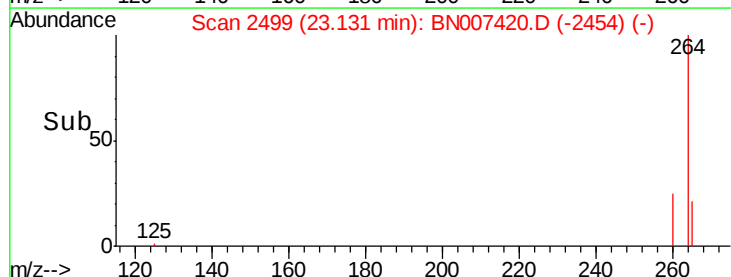
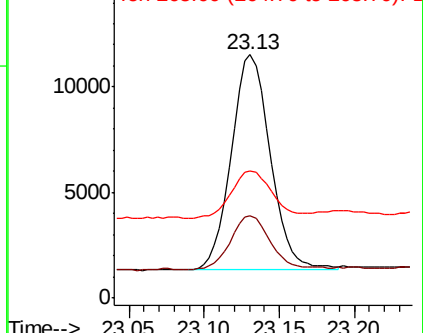
264 100

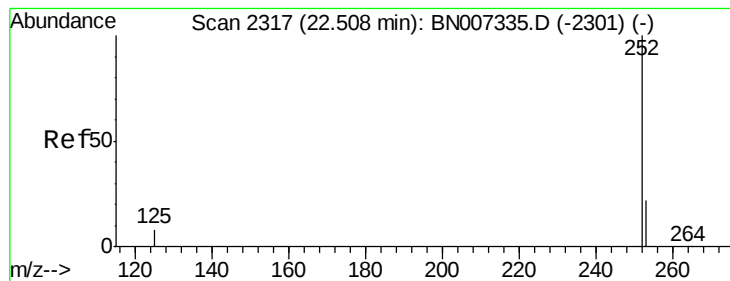
260 33.8 19.7 29.5#

265 52.0 29.9 44.9#



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





#35

Benzo(b)fluoranthene

Concen: 0.266 ng

RT: 22.51 min Scan# 2319

Delta R.T. 0.01 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

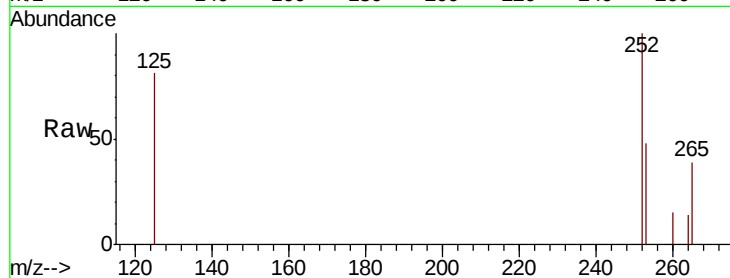
Tgt Ion:252 Resp: 17435

Ion Ratio Lower Upper

252 100

253 47.5 19.2 28.8#

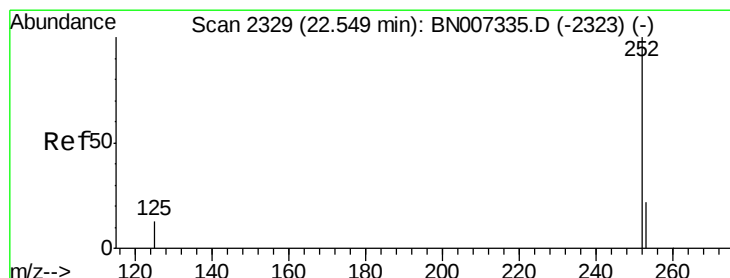
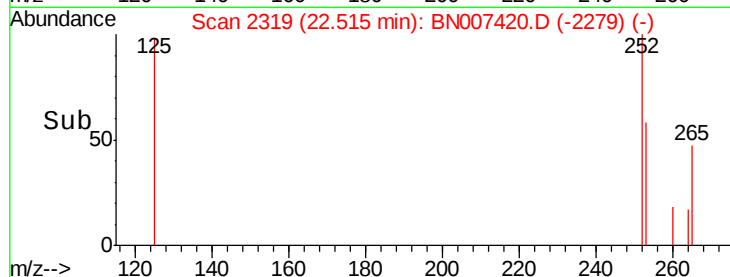
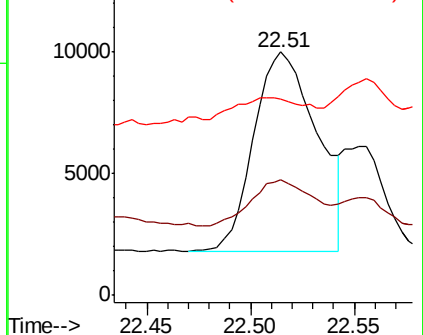
125 80.6 10.6 16.0#



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



#36

Benzo(k)fluoranthene

Concen: 0.269 ng

RT: 22.51 min Scan# 2319

Delta R.T. -0.03 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

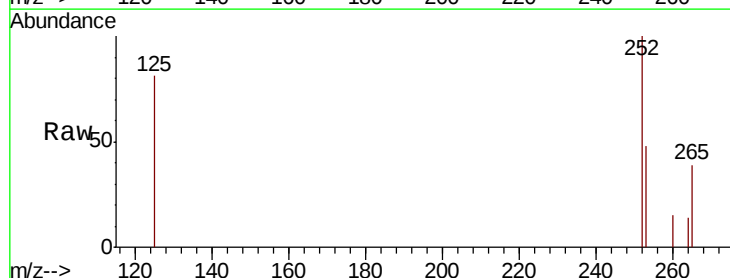
Tgt Ion:252 Resp: 17435

Ion Ratio Lower Upper

252 100

253 47.5 19.4 29.2#

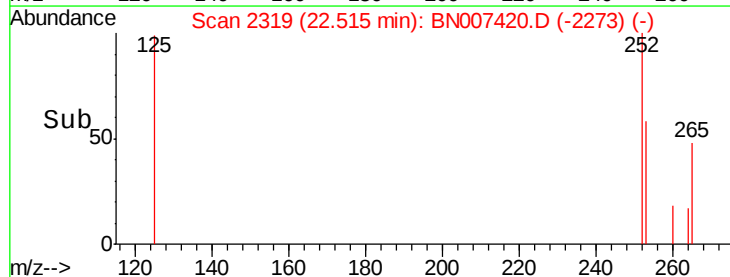
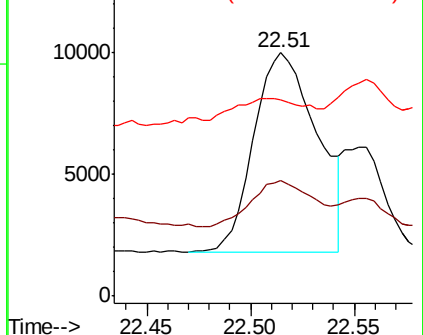
125 80.6 13.1 19.7#

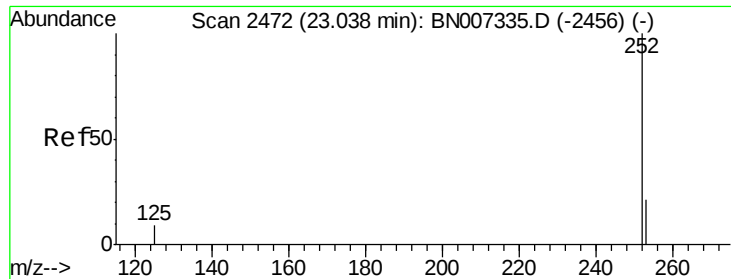


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.189 ng

RT: 23.04 min Scan# 2473

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319

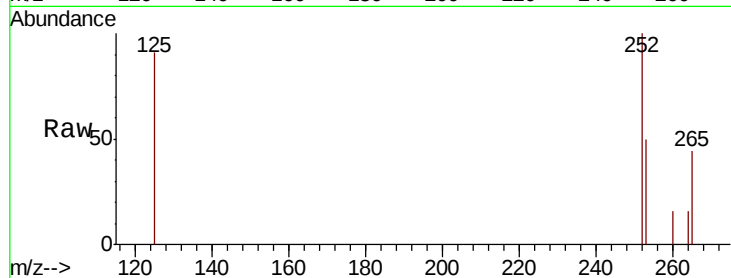
Tgt Ion:252 Resp: 11801

Ion Ratio Lower Upper

252 100

253 50.4 19.5 29.3#

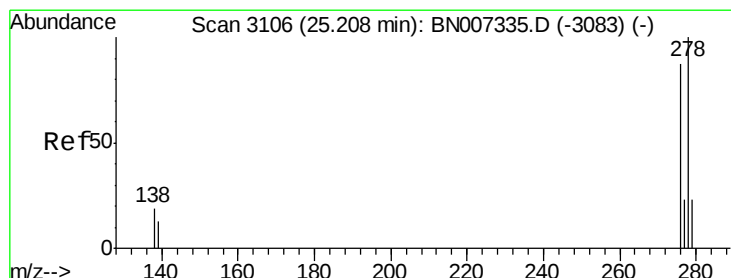
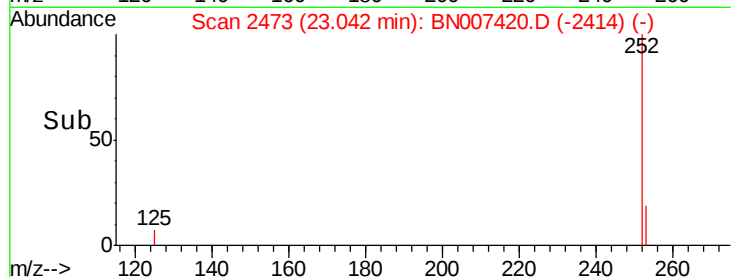
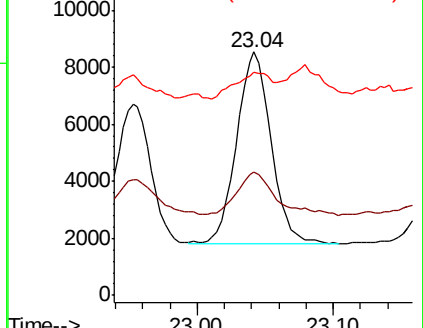
125 91.4 12.1 18.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.035 ng

RT: 25.21 min Scan# 3106

Delta R.T. 0.00 min

Lab File: BN007420.D

Acq: 26 Aug 2019 21:24

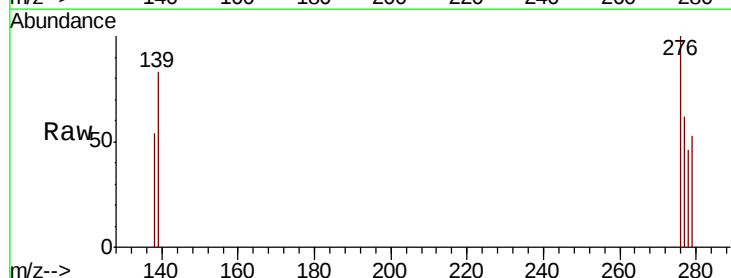
Tgt Ion:278 Resp: 2160

Ion Ratio Lower Upper

278 100

139 181.6 13.7 20.5#

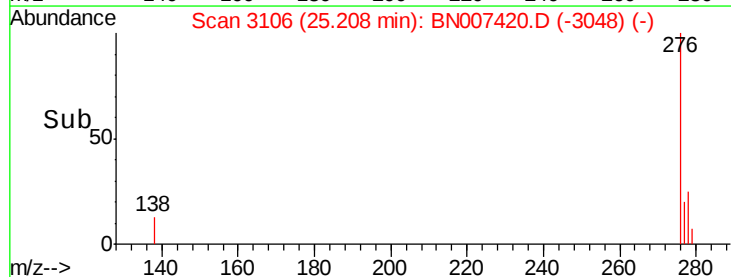
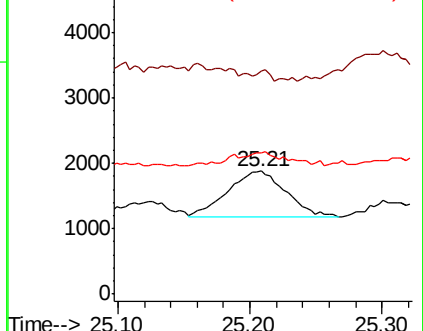
279 115.3 20.2 30.4#

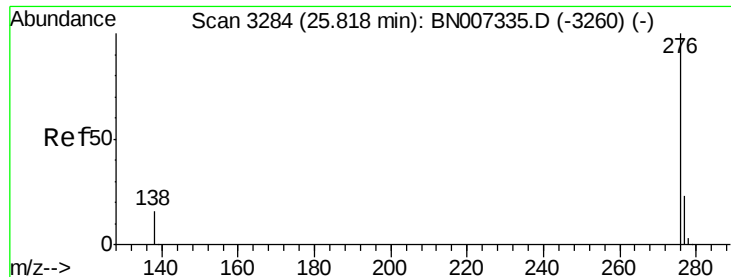


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(g,h,i)perylene

Concen: 0.140 ng

RT: 25.83 min Scan# 3287

Delta R.T. 0.01 min

Lab File: BN007420.D

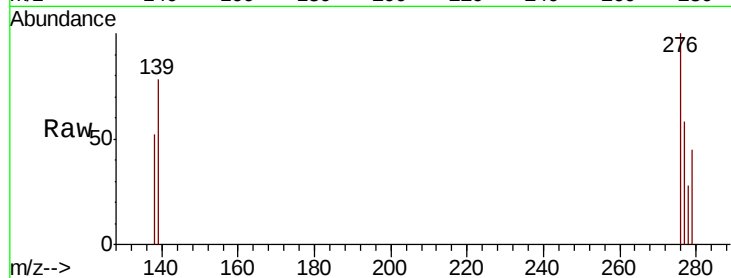
Acq: 26 Aug 2019 21:24

Instrument :

BNA_N

ClientSampleId :

S302A-J-1.5-2.0-082319



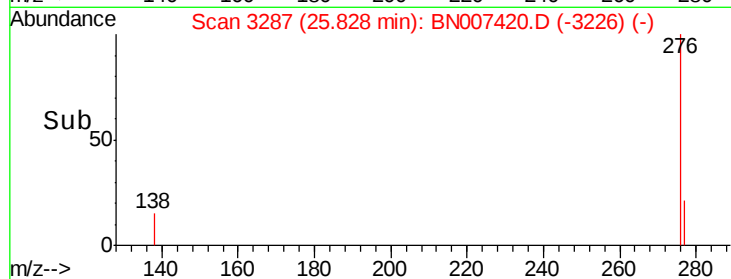
Tgt Ion: 276 Resp: 8678

Ion Ratio Lower Upper

276 100

277 58.0 19.6 29.4#

138 52.1 16.3 24.5#



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

