

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN091119\
 Data File : BN007589.D
 Acq On : 11 Sep 2019 15:52
 Operator : HP/JU
 Sample : K4698-02
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Sep 11 16:24:12 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 11 14:14:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.73	152	6826	0.40	ng	0.00
7) Naphthalene-d8	10.49	136	27252	0.40	ng	0.00
13) Acenaphthene-d10	14.35	164	16688	0.40	ng	0.00
19) Phenanthrene-d10	17.08	188	34784	0.40	ng	-0.01
27) Chrysene-d12	21.28	240	36015	0.40	ng	-0.01
34) Perylene-d12	23.51	264	39473	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.34	112	2907	0.14	ng	0.00
5) Phenol-d6	6.90	99	2556	0.09	ng	0.00
8) Nitrobenzene-d5	8.86	82	8896	0.54	ng	0.00
11) 2-Methylnaphthalene-d10	12.09	152	17223	0.37	ng	0.00
14) 2,4,6-Tribromophenol	15.83	330	2235	0.35	ng	-0.01
15) 2-Fluorobiphenyl	12.97	172	25320	0.37	ng	-0.01
25) Fluoranthene-d10	19.12	212	44606	0.39	ng	0.00
29) Terphenyl-d14	19.73	244	44808	0.48	ng	0.00

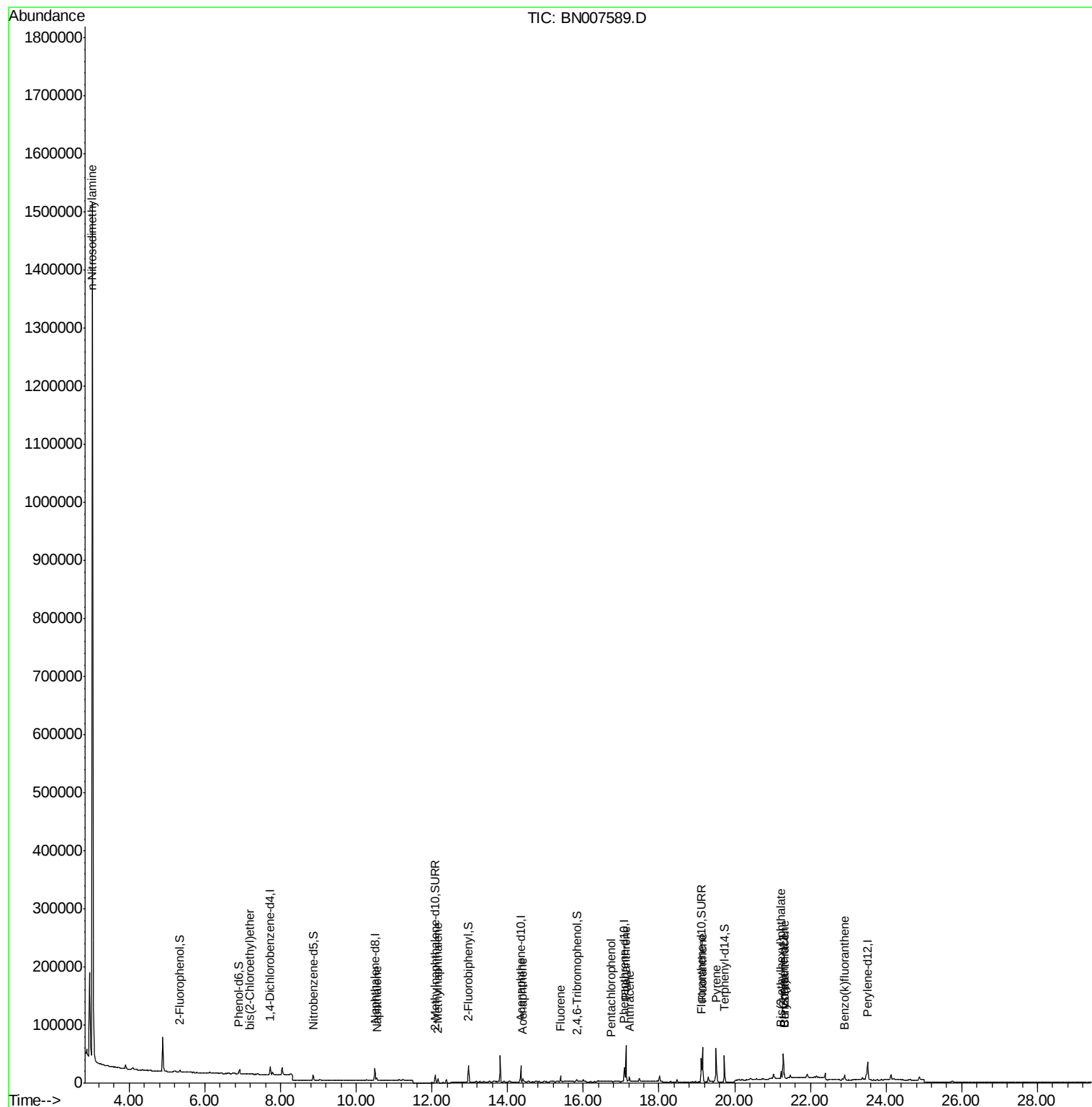
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.03	42	131523	32.255	ng	# 100
6) bis(2-Chloroethyl)ether	7.18	93	196	0.223	ng	# 19
9) Naphthalene	10.54	128	6481	0.085	ng	# 95
12) 2-Methylnaphthalene	12.16	142	5395	0.100	ng	97
17) Acenaphthene	14.40	154	2389	0.042	ng	93
18) Fluorene	15.39	166	5736	0.077	ng	99
22) Pentachlorophenol	16.74	266	89	0.215	ng	# 80
23) Phenanthrene	17.12	178	65852	0.613	ng	99
24) Anthracene	17.22	178	9051	0.091	ng	# 93
26) Fluoranthene	19.15	202	53736	0.413	ng	98
28) Pvrene	19.51	202	52661	0.407	ng	97
30) Benzo(a)anthracene	21.31	228	10532	0.082	ng	92
31) Chrysene	21.31	228	10521	0.080	ng	95
32) Bis(2-ethylhexyl)phthalate	21.23	149	10301	0.234	ng	98
36) Benzo(k)fluoranthene	22.89	252	3047	0.022	ng	# 1

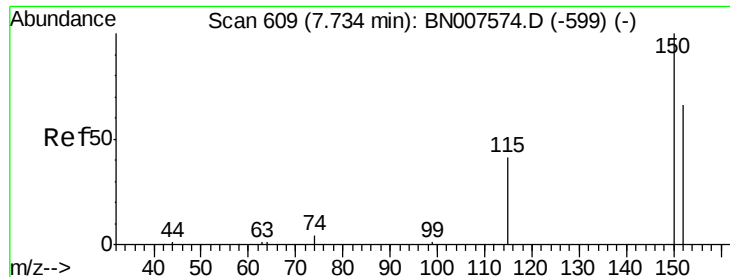
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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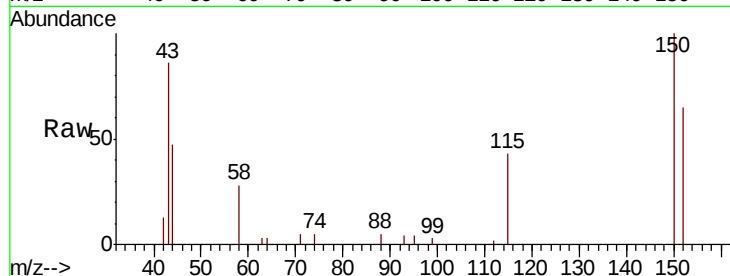


#1

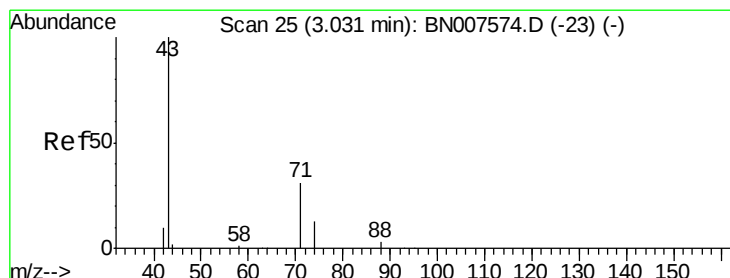
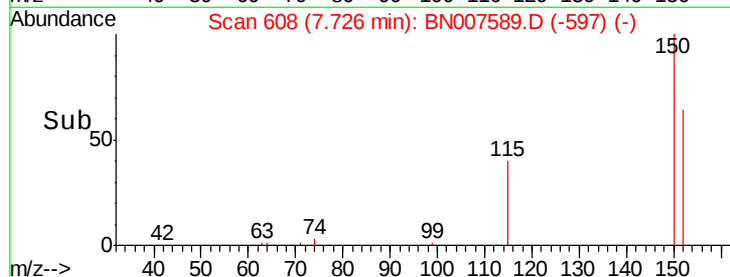
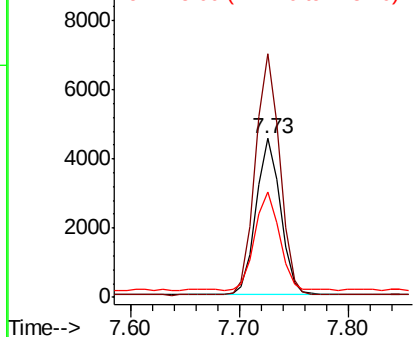
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.73 min Scan# 608
Delta R.T. -0.01 min
Lab File: BN007589.D
Acq: 11 Sep 2019 15:52

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 6826
Ion Ratio Lower Upper
152 100
150 153.5 119.5 179.3
115 66.0 53.0 79.6



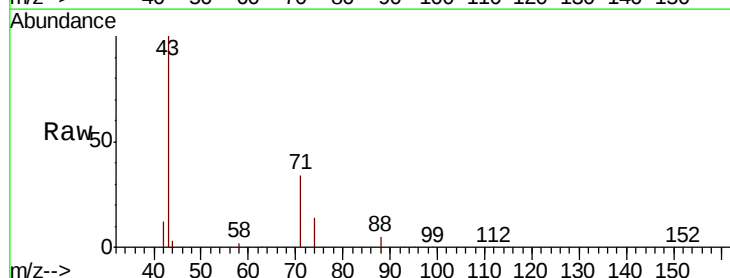
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



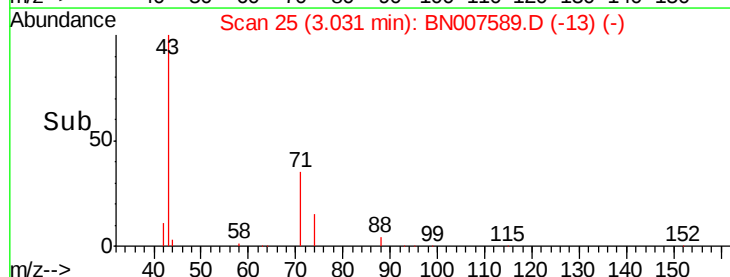
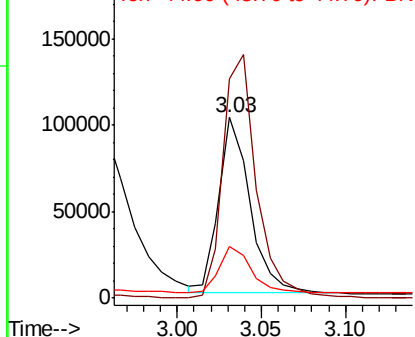
#3

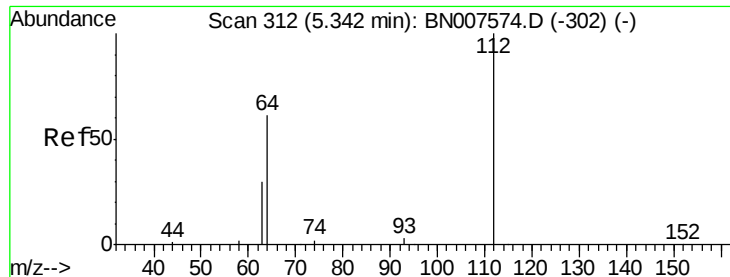
n-Nitrosodimethylamine
Concen: 32.255 ng
RT: 3.03 min Scan# 25
Delta R.T. 0.00 min
Lab File: BN007589.D
Acq: 11 Sep 2019 15:52

Tgt Ion: 42 Resp: 131523
Ion Ratio Lower Upper
42 100
74 147.1 0.0 0.0#
44 26.3 0.0 0.0#



Abundance Ion 42.00 (41.70 to 42.70): BNC
Ion 74.00 (73.70 to 74.70): BNC
Ion 44.00 (43.70 to 44.70): BNC





#4

2-Fluorophenol

Concen: 0.140 ng

RT: 5.34 min Scan# 312

Delta R.T. 0.00 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

Instrument :

BNA_N

ClientSampled :

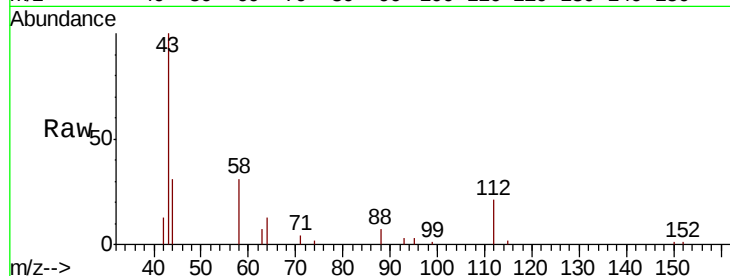
Tot Ion: 112 Resp: 2907

Ion Ratio Lower Upper

112 100

64 58.8 49.2 73.8

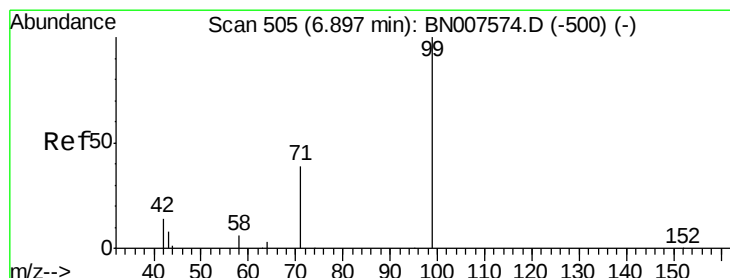
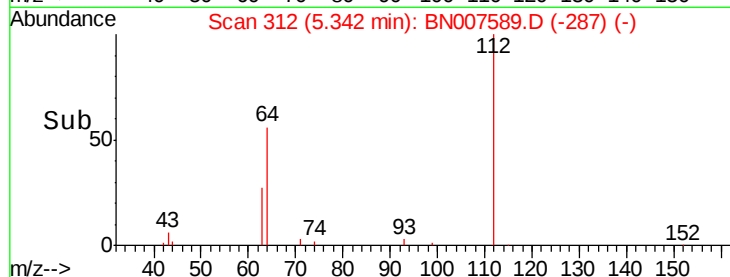
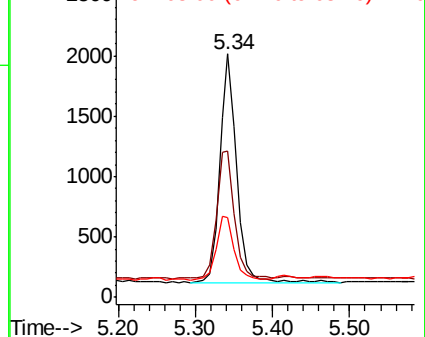
63 29.4 26.0 39.0



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BNO

Ion 63.00 (62.70 to 63.70): BNO



#5

Phenol-d6

Concen: 0.090 ng

RT: 6.90 min Scan# 505

Delta R.T. 0.00 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

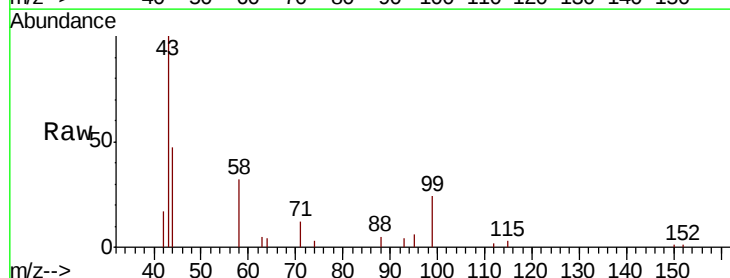
Tgt Ion: 99 Resp: 2556

Ion Ratio Lower Upper

99 100

42 34.2 11.8 17.8#

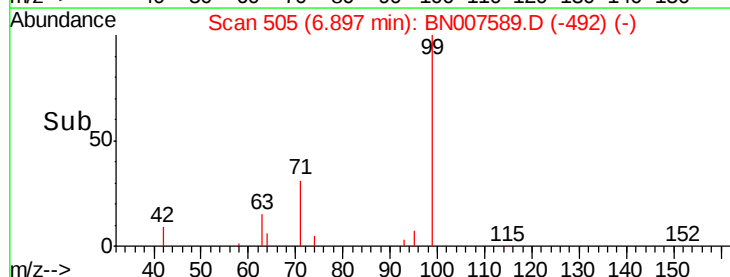
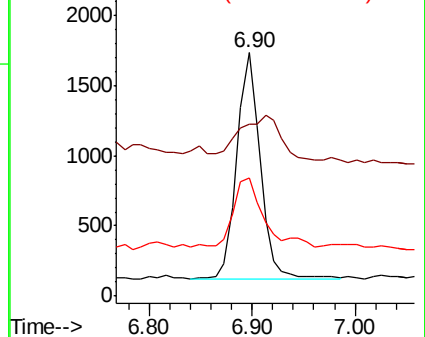
71 39.1 28.8 43.2

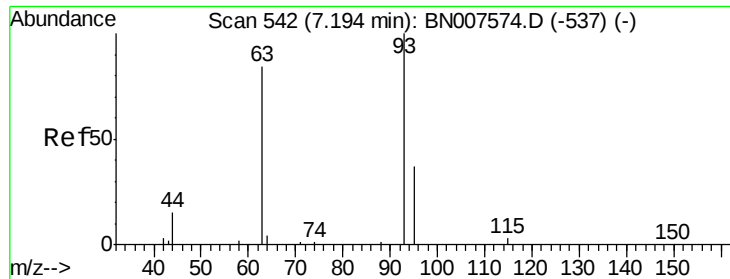


Abundance Ion 99.00 (98.70 to 99.70): BNO

Ion 42.00 (41.70 to 42.70): BNO

Ion 71.00 (70.70 to 71.70): BNO



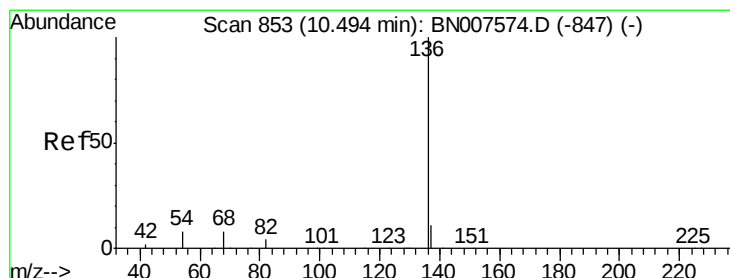
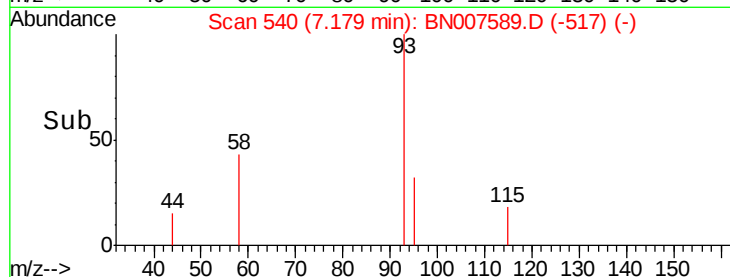
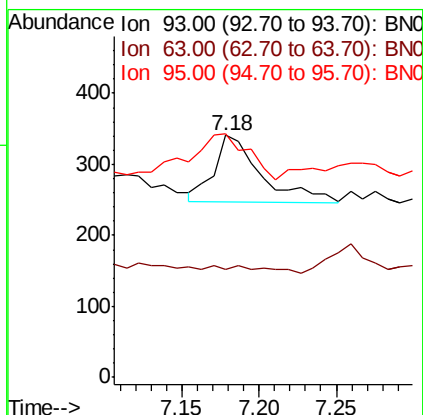
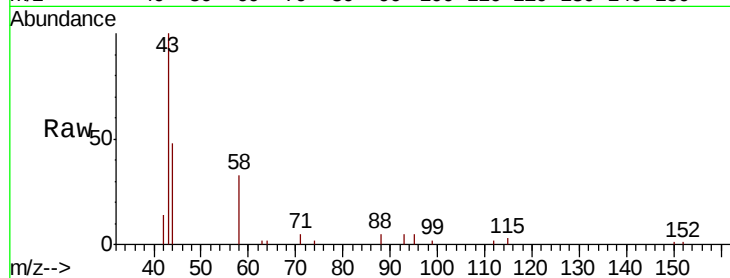


#6

bis(2-Chloroethyl)ether
Concen: 0.223 ng
RT: 7.18 min Scan# 540
Delta R.T. -0.02 min
Lab File: BN007589.D
Acq: 11 Sep 2019 15:52

Instrument :
BNA_N
ClientSampleId :

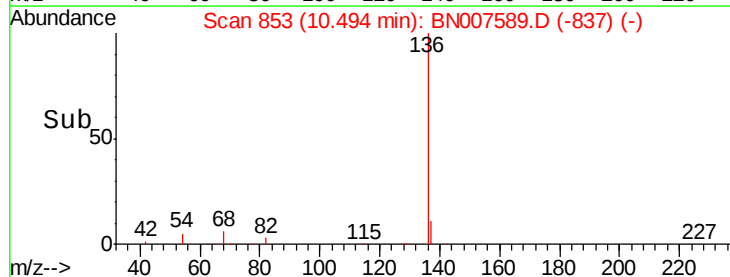
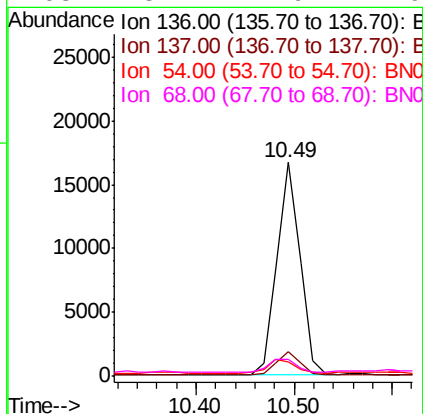
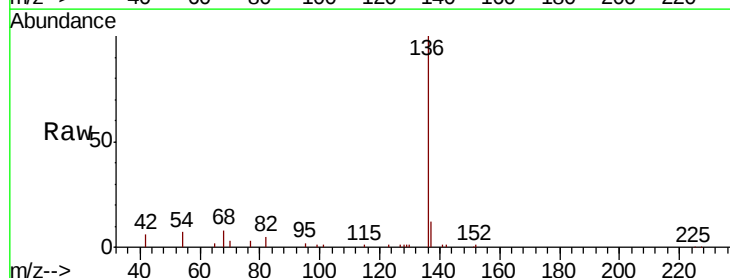
Tot Ion: 93 Resp: 196
Ion Ratio Lower Upper
93 100
63 1.5 69.8 104.6#
95 98.0 42.8 64.2#

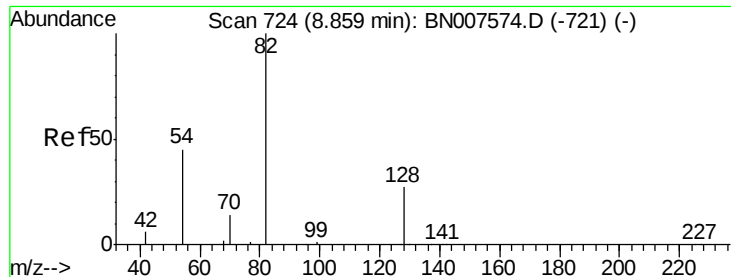


#7

Naphthalene-d8
Concen: 0.400 ng
RT: 10.49 min Scan# 853
Delta R.T. 0.00 min
Lab File: BN007589.D
Acq: 11 Sep 2019 15:52

Tgt Ion: 136 Resp: 27252
Ion Ratio Lower Upper
136 100
137 11.5 9.1 13.7
54 6.9 7.5 11.3#
68 8.1 7.9 11.9





#8

Nitrobenzene-d5

Concen: 0.536 ng

RT: 8.86 min Scan# 724

Delta R.T. 0.00 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

Instrument :

BNA_N

ClientSampleId :

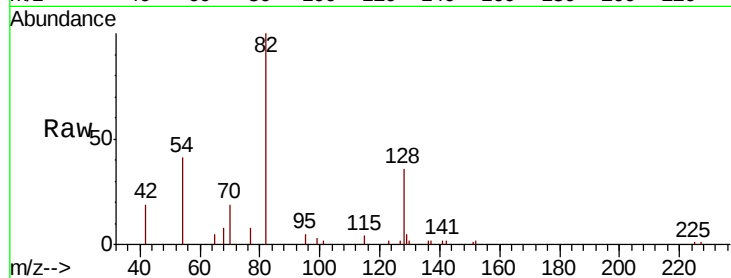
Tot Ion: 82 Resp: 8896

Ion Ratio Lower Upper

82 100

128 35.6 23.4 35.2#

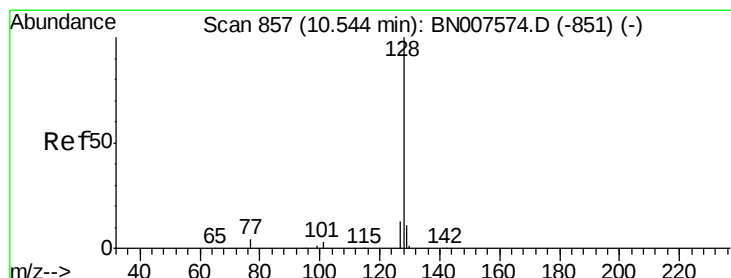
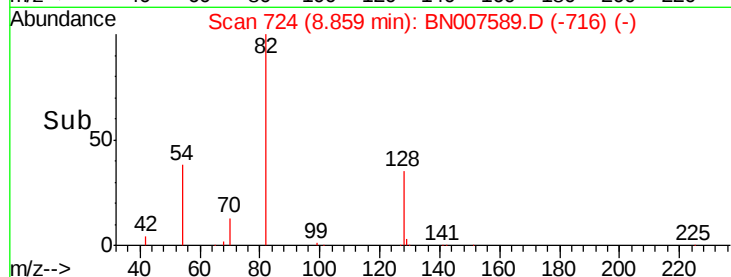
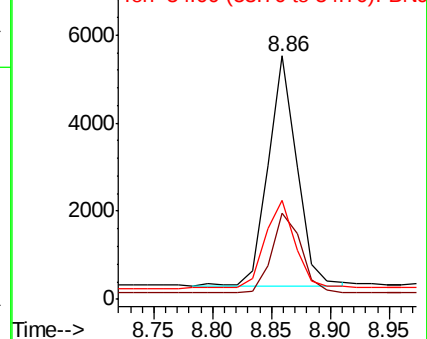
54 40.7 38.2 57.2



Abundance Ion 82.00 (81.70 to 82.70): BN007574.D (-721) (-)

Ion 128.00 (127.70 to 128.70): BN007574.D (-721) (-)

Ion 54.00 (53.70 to 54.70): BN007574.D (-721) (-)



#9

Naphthalene

Concen: 0.085 ng

RT: 10.54 min Scan# 857

Delta R.T. 0.00 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

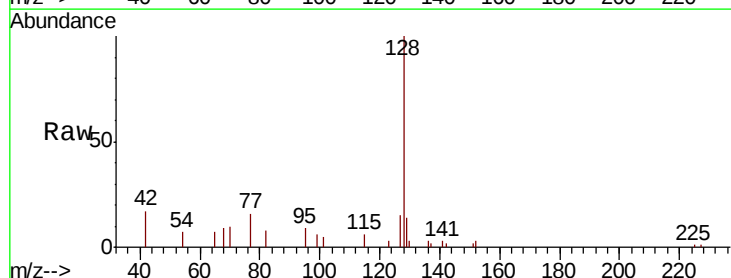
Tgt Ion: 128 Resp: 6481

Ion Ratio Lower Upper

128 100

129 14.5 9.3 13.9#

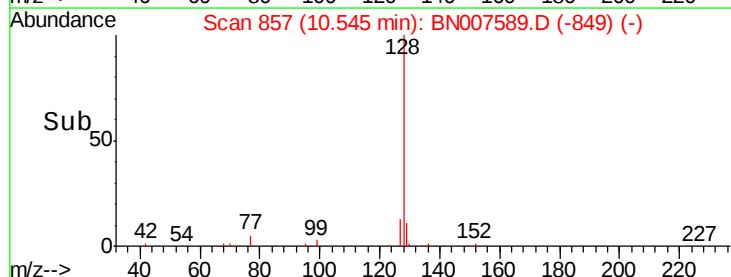
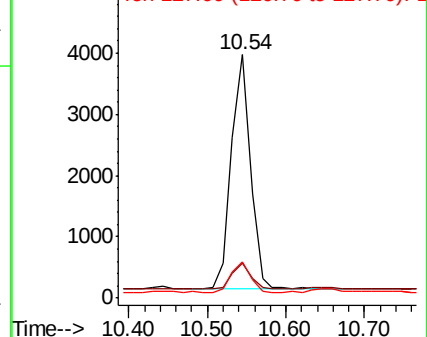
127 15.0 11.0 16.4

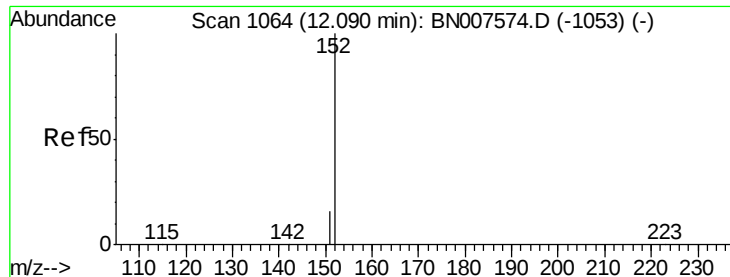


Abundance Ion 128.00 (127.70 to 128.70): BN007574.D (-851) (-)

Ion 129.00 (128.70 to 129.70): BN007574.D (-851) (-)

Ion 127.00 (126.70 to 127.70): BN007574.D (-851) (-)

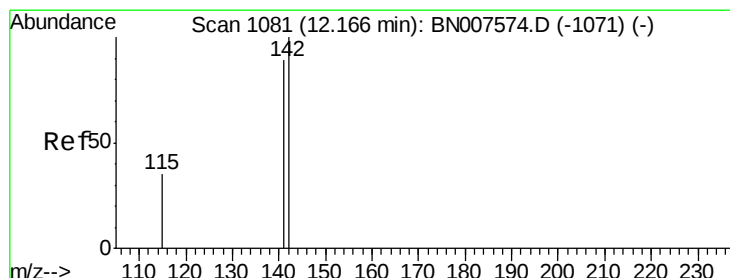
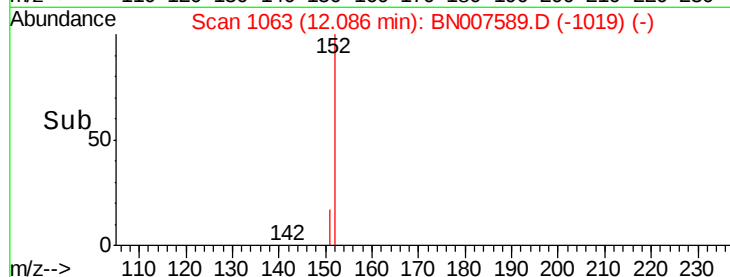
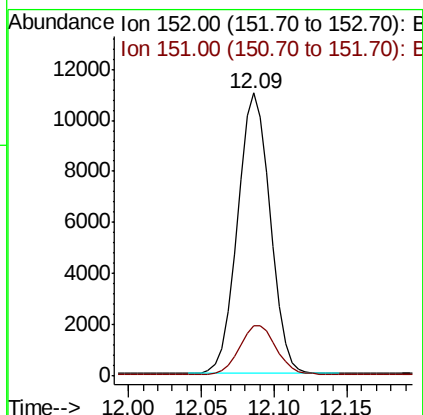
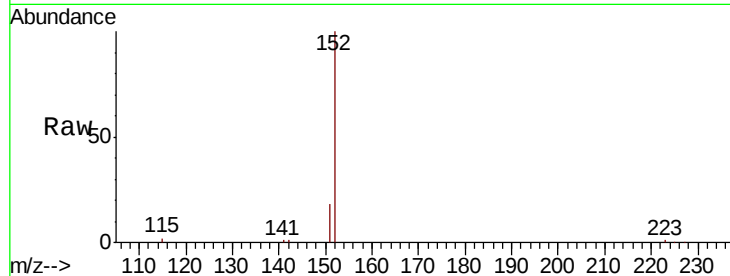




#11
 2-Methylnaphthalene-d10
 Concen: 0.366 ng
 RT: 12.09 min Scan# 1063
 Delta R.T. -0.00 min
 Lab File: BN007589.D
 Acq: 11 Sep 2019 15:52

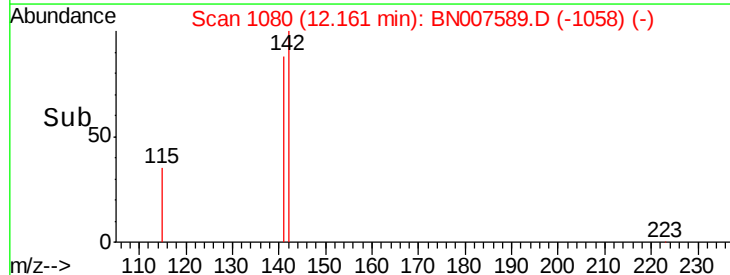
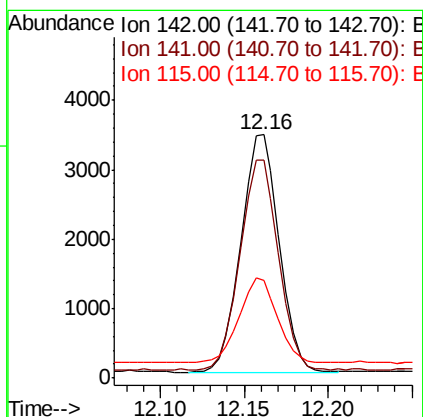
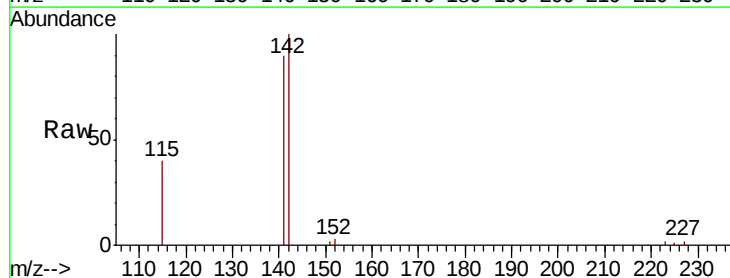
Instrument :
 BNA_N
 ClientSampleId :

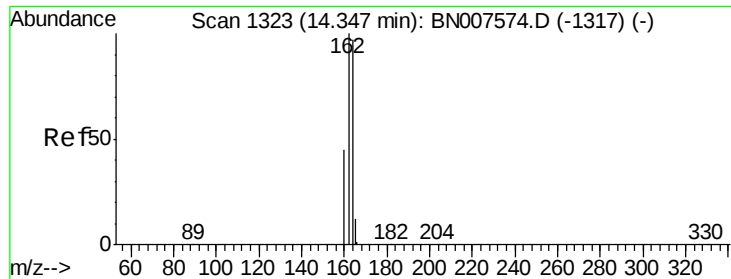
Tot Ion:152 Resp: 17223
 Ion Ratio Lower Upper
 152 100
 151 19.3 15.3 22.9



#12
 2-Methylnaphthalene
 Concen: 0.100 ng
 RT: 12.16 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: BN007589.D
 Acq: 11 Sep 2019 15:52

Tgt Ion:142 Resp: 5395
 Ion Ratio Lower Upper
 142 100
 141 89.7 71.0 106.6
 115 40.4 29.1 43.7





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.35 min Scan# 1323

Delta R.T. 0.00 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

Instrument :

BNA_N

ClientSampled :

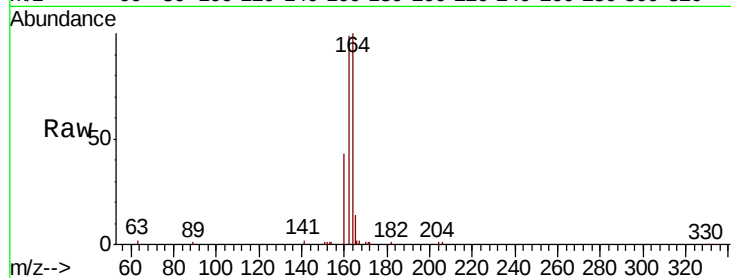
Tot Ion:164 Resp: 16688

Ion Ratio Lower Upper

164 100

162 99.4 82.2 123.2

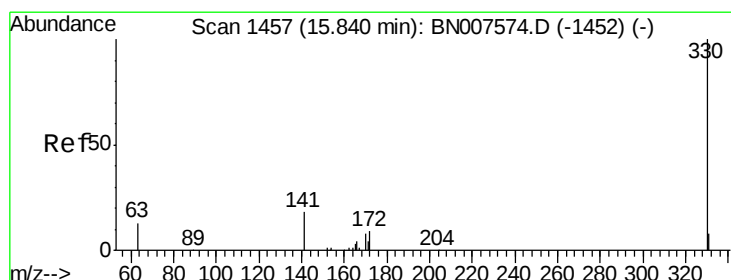
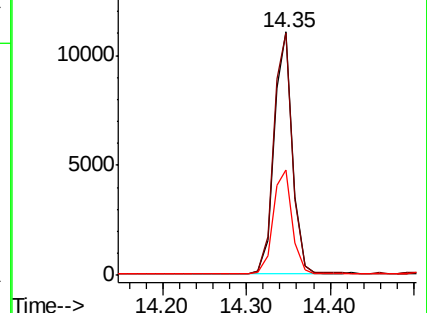
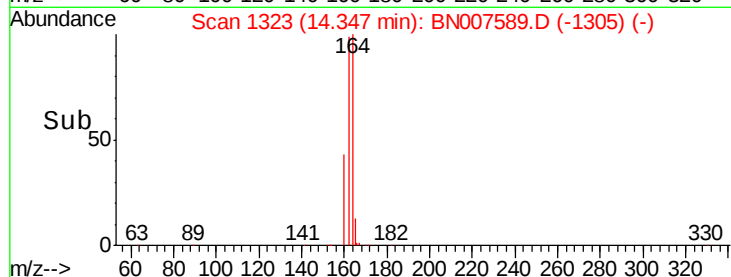
160 43.2 37.4 56.0



Abundance Ion 164.00 (163.70 to 164.70): E

15000 Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.352 ng

RT: 15.83 min Scan# 1456

Delta R.T. -0.01 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

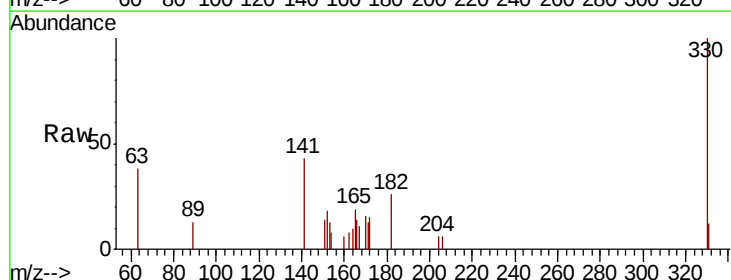
Tgt Ion:330 Resp: 2235

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

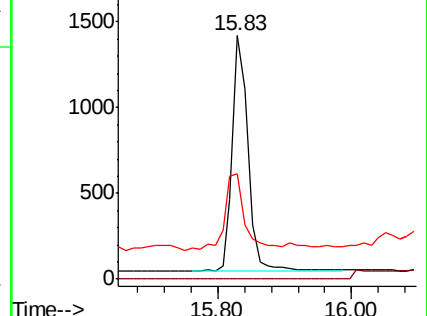
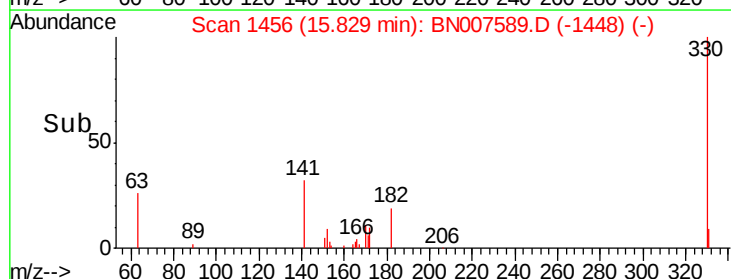
141 38.9 30.6 45.8

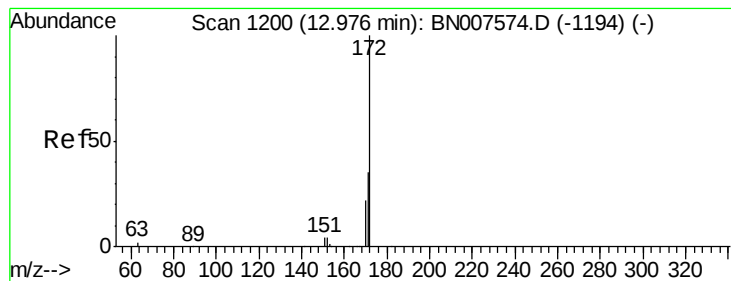


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.367 ng

RT: 12.97 min Scan# 1199

Delta R.T. -0.01 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

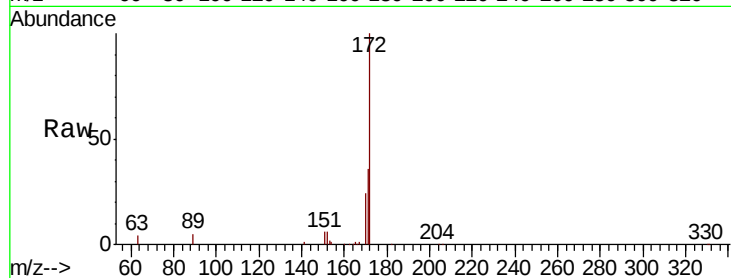
Instrument :

BNA_N

ClientSampleId :

Tot Ion:172 Resp: 25320

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.2	42.2
170	23.7	18.3	27.5

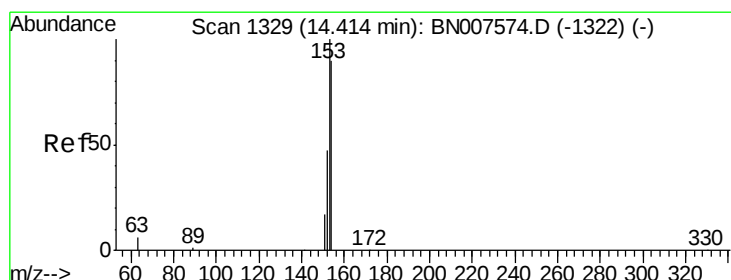
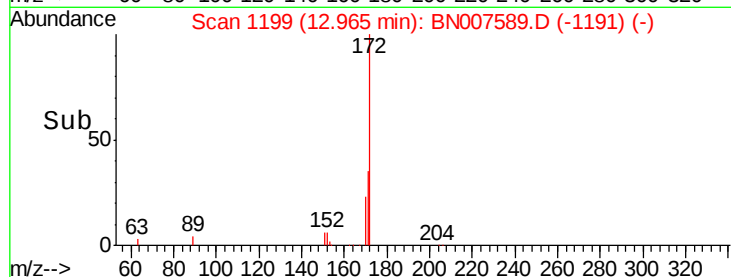
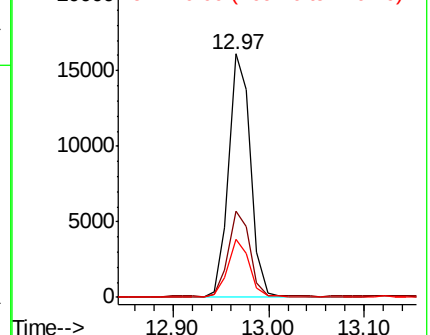


Abundance

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



#17

Acenaphthene

Concen: 0.042 ng

RT: 14.40 min Scan# 1328

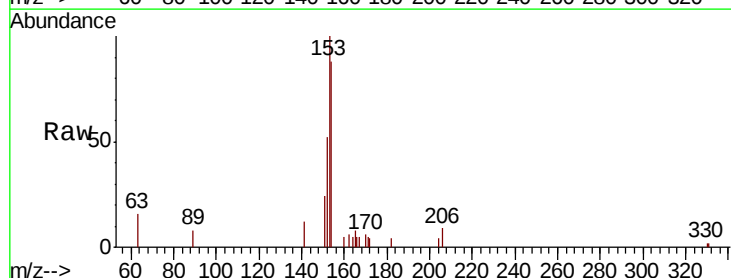
Delta R.T. -0.01 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

Tgt Ion:154 Resp: 2389

Ion	Ratio	Lower	Upper
154	100		
153	116.7	89.4	134.2
152	63.0	43.4	65.0

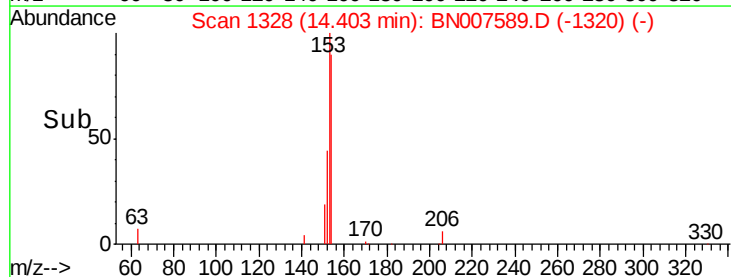
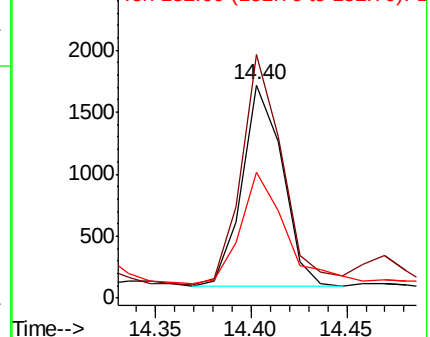


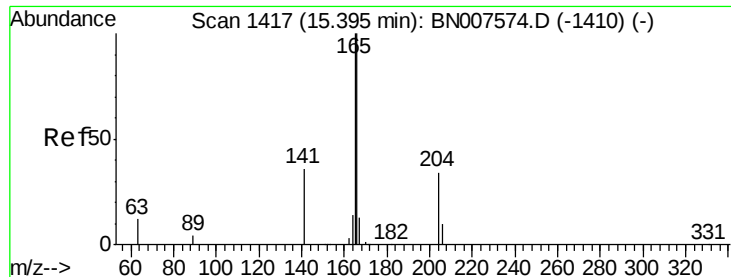
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 0.077 ng

RT: 15.39 min Scan# 1417

Delta R.T. 0.00 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

Instrument :

BNA_N

ClientSampleId :

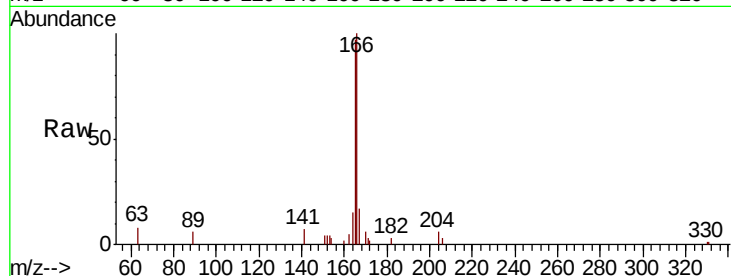
Tot Ion:166 Resp: 5736

Ion Ratio Lower Upper

166 100

165 96.8 77.8 116.6

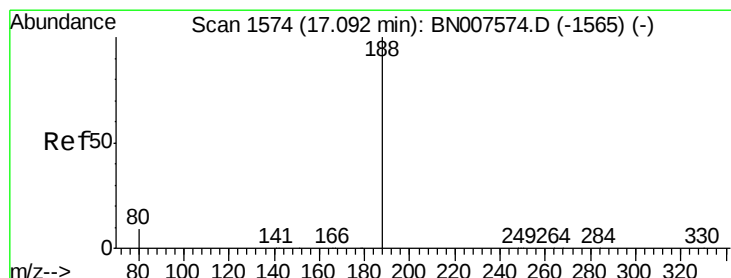
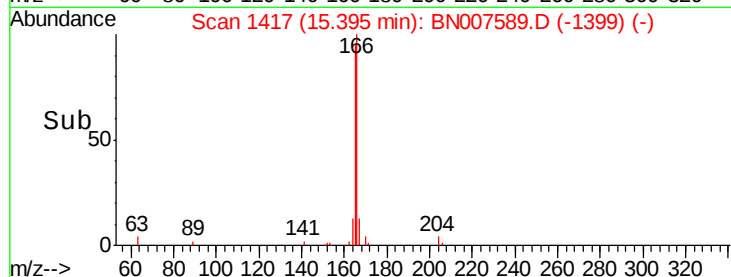
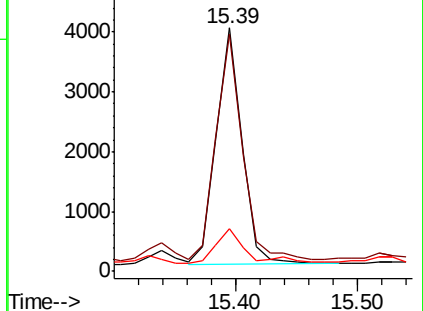
167 15.0 11.0 16.4



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.08 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

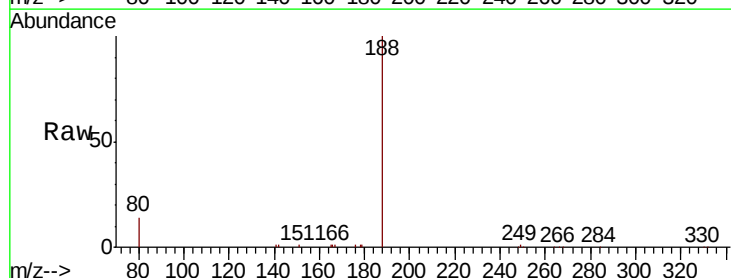
Tgt Ion:188 Resp: 34784

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

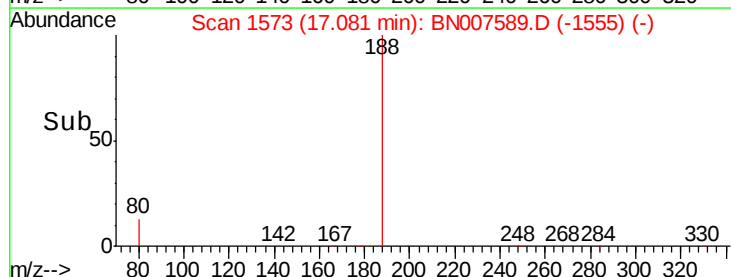
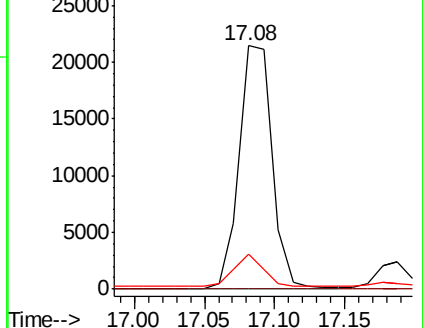
80 14.4 8.1 12.1#

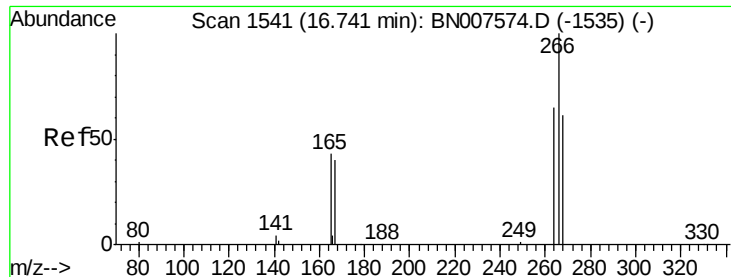


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#22

Pentachlorophenol

Concen: 0.215 ng

RT: 16.74 min Scan# 1541

Delta R.T. 0.00 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

Instrument :

BNA_N

ClientSampled :

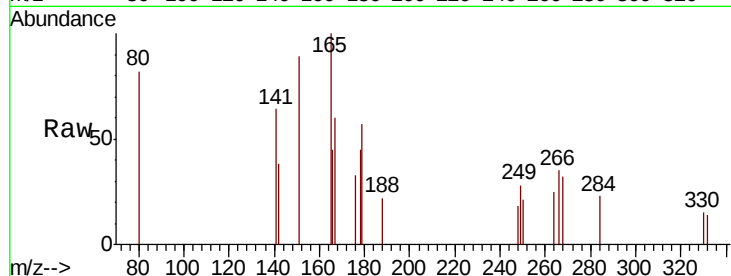
Tot Ion:266 Resp: 89

Ion Ratio Lower Upper

266 100

264 72.6 52.0 78.0

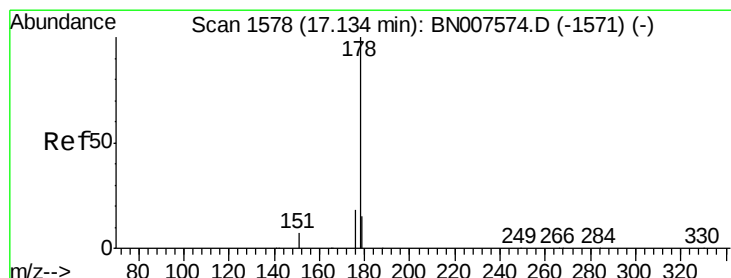
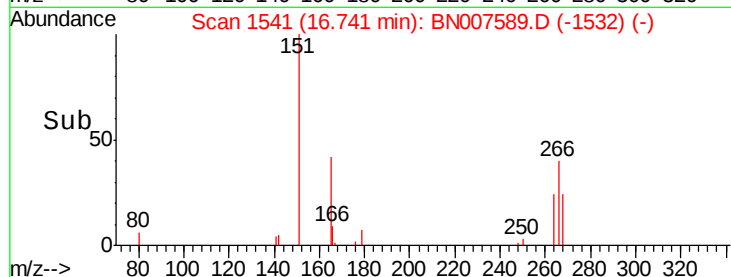
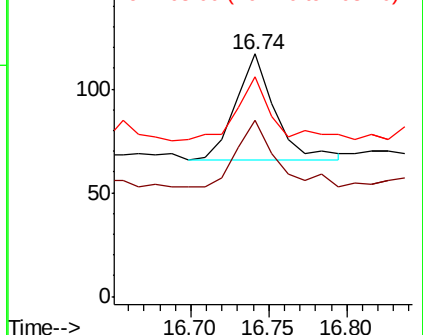
268 90.6 53.5 80.3#



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#23

Phenanthrene

Concen: 0.613 ng

RT: 17.12 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

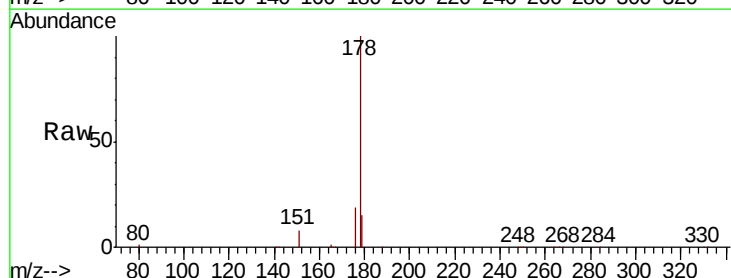
Tgt Ion:178 Resp: 65852

Ion Ratio Lower Upper

178 100

176 19.0 15.0 22.4

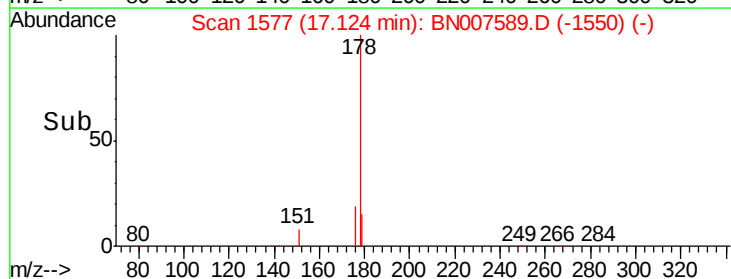
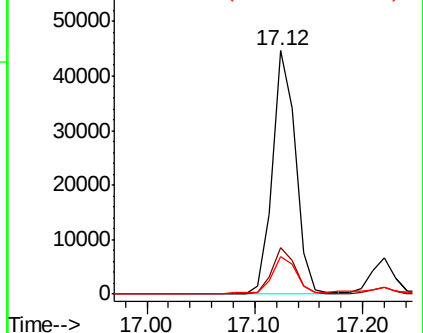
179 15.5 12.2 18.2

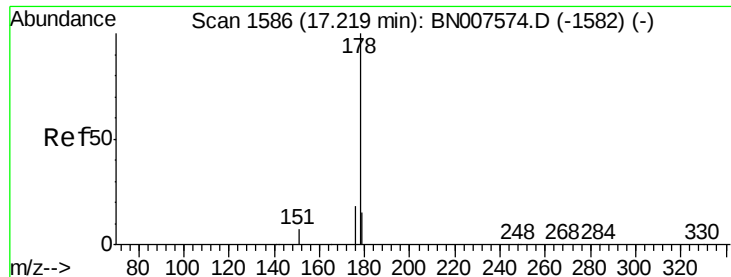


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.091 ng

RT: 17.22 min Scan# 1586

Delta R.T. 0.00 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

Instrument :

BNA_N

ClientSampleId :

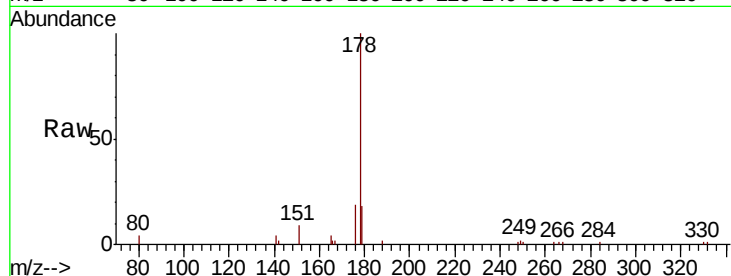
Tot Ion:178 Resp: 9051

Ion Ratio Lower Upper

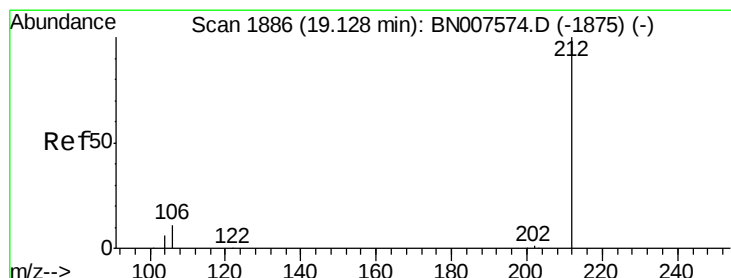
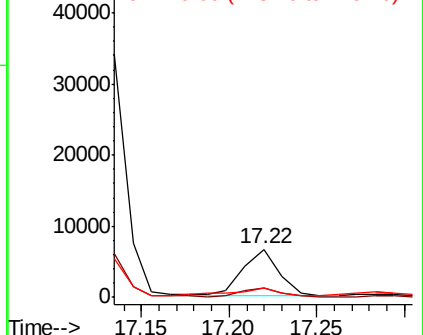
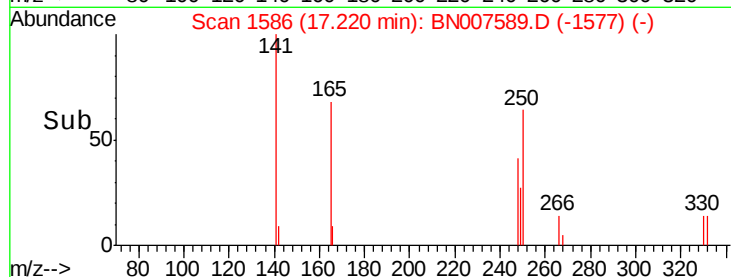
178 100

176 17.6 14.4 21.6

179 21.6 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



#25

Fluoranthene-d10

Concen: 0.395 ng

RT: 19.12 min Scan# 1884

Delta R.T. -0.01 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

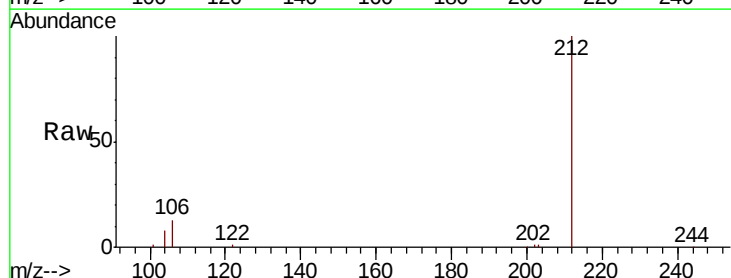
Tgt Ion:212 Resp: 44606

Ion Ratio Lower Upper

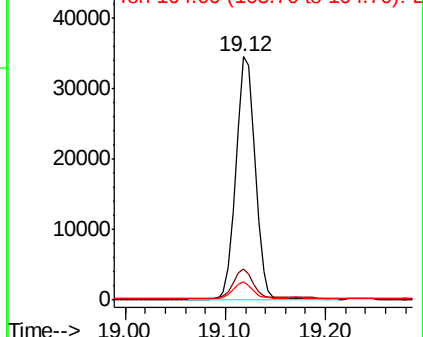
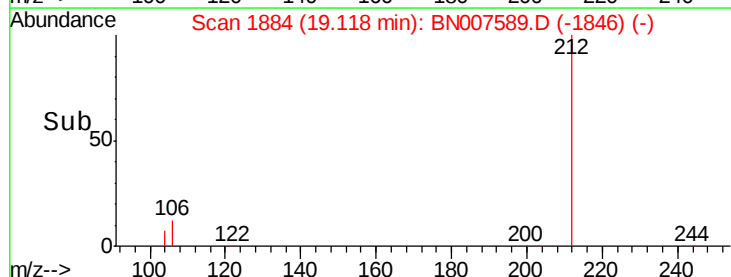
212 100

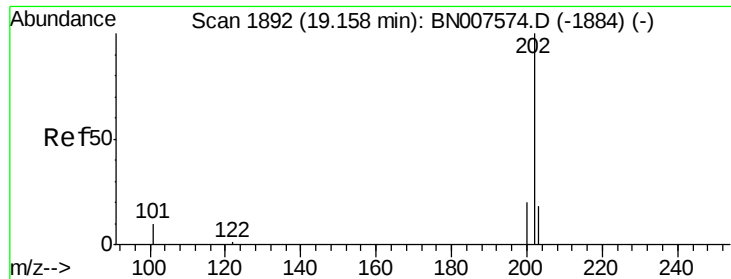
106 12.3 9.7 14.5

104 7.1 5.5 8.3



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

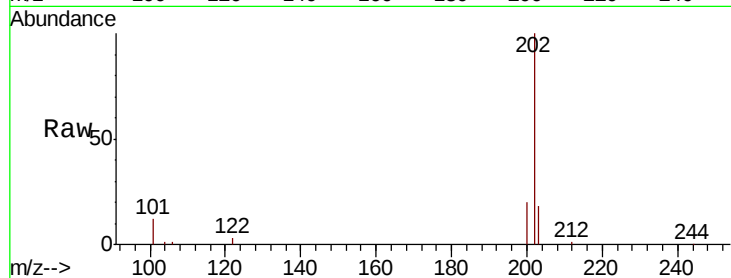




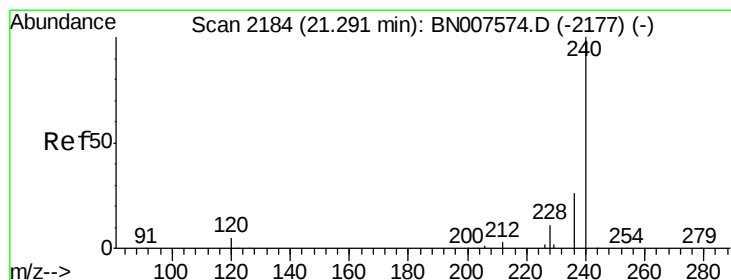
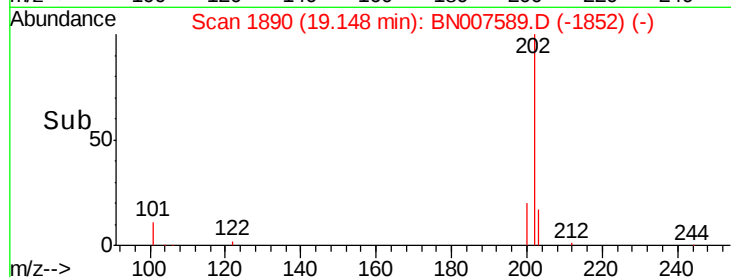
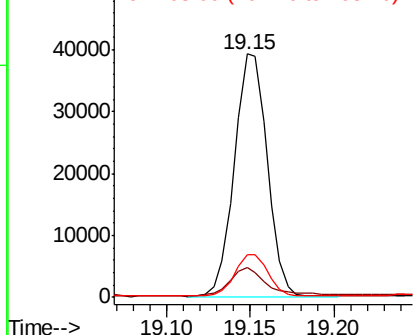
#26
 Fluoranthene
 Concen: 0.413 ng
 RT: 19.15 min Scan# 1890
 Delta R.T. -0.01 min
 Lab File: BN007589.D
 Acq: 11 Sep 2019 15:52

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:202 Resp: 53736
 Ion Ratio Lower Upper
 202 100
 101 12.9 8.8 13.2
 203 17.3 13.8 20.8

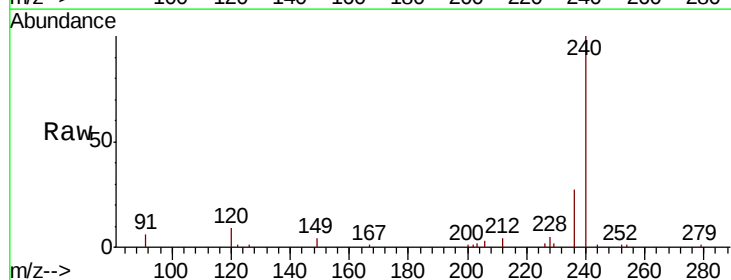


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

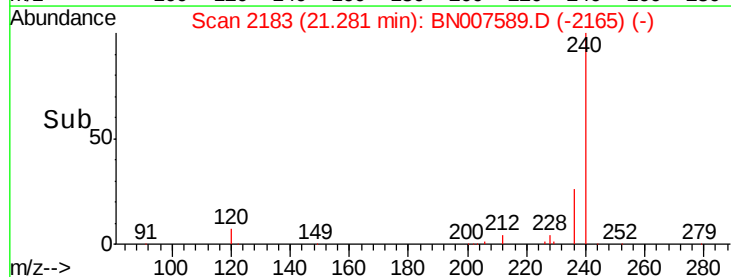
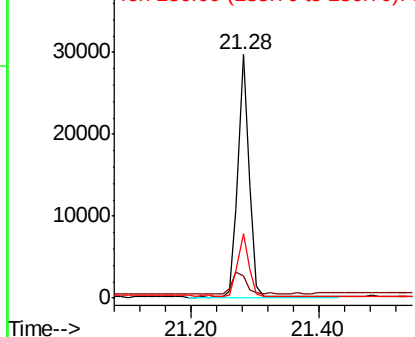


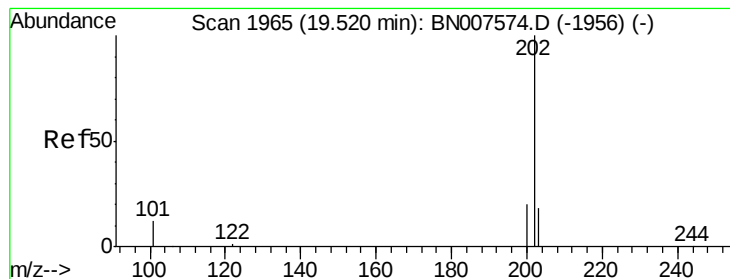
#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.28 min Scan# 2183
 Delta R.T. -0.01 min
 Lab File: BN007589.D
 Acq: 11 Sep 2019 15:52

Tgt Ion:240 Resp: 36015
 Ion Ratio Lower Upper
 240 100
 120 9.0 5.0 7.4#
 236 26.6 20.6 31.0



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

Pvrene

Concen: 0.407 ng

RT: 19.51 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

Instrument :

BNA_N

ClientSampleId :

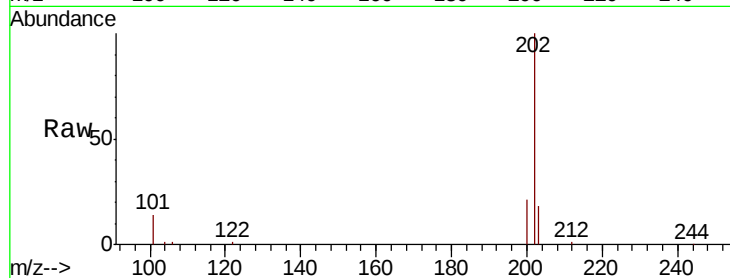
Tot Ion:202 Resp: 52661

Ion Ratio Lower Upper

202 100

200 20.7 16.3 24.5

203 19.9 14.1 21.1

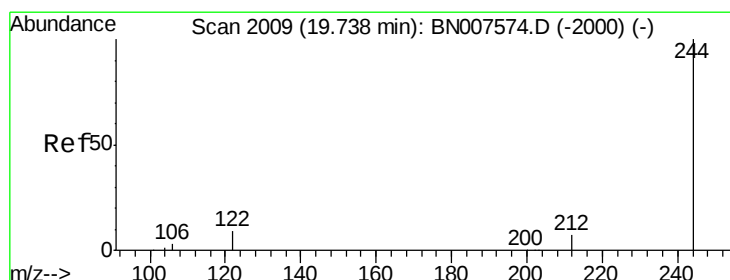
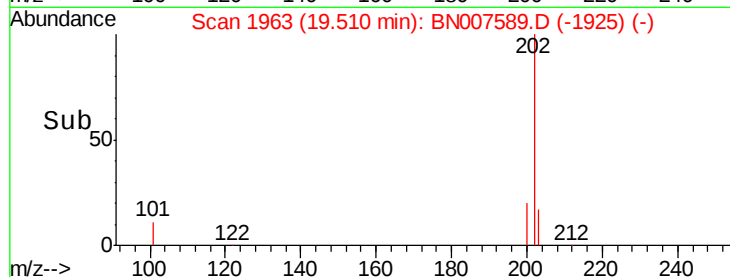
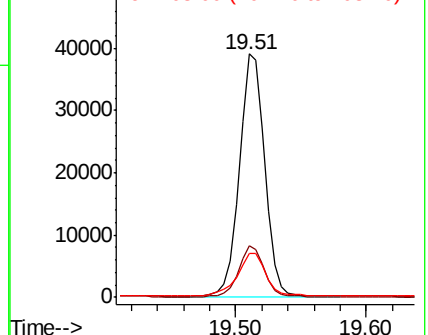


Abundance

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: 0.478 ng

RT: 19.73 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

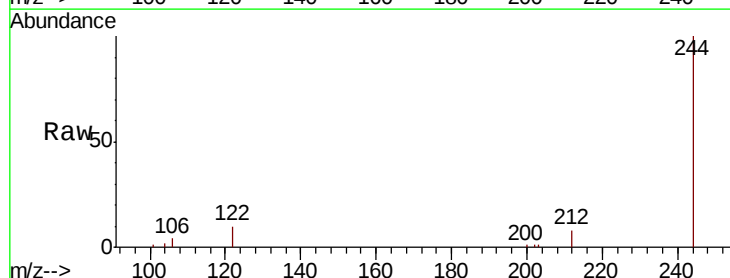
Tgt Ion:244 Resp: 44808

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.8

122 10.5 7.8 11.6

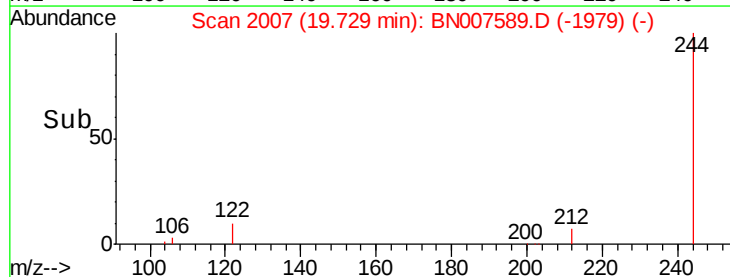
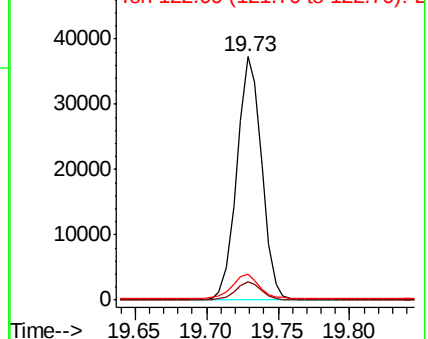


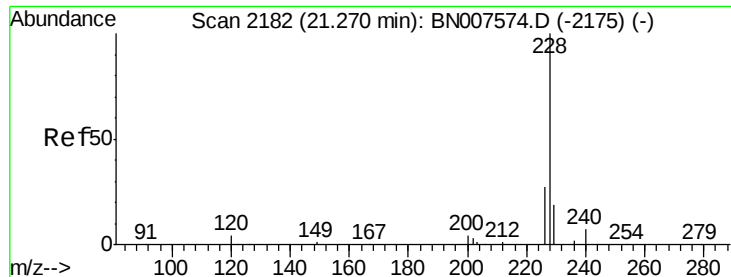
Abundance

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: 0.082 ng

RT: 21.31 min Scan# 2186

Delta R.T. 0.04 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

Instrument :

BNA_N

ClientSampled :

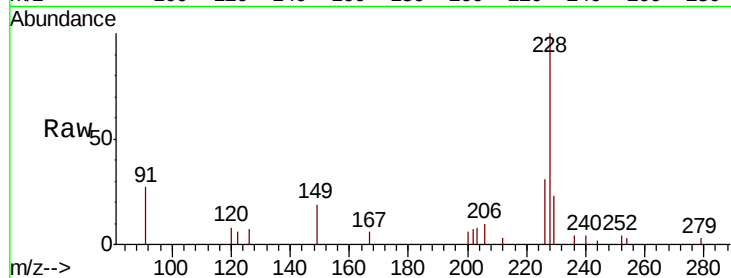
Tot Ion:228 Resp: 10532

Ion Ratio Lower Upper

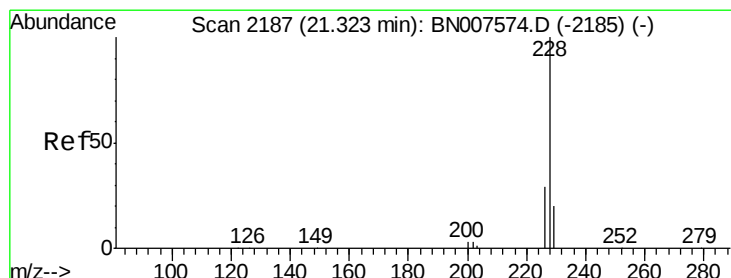
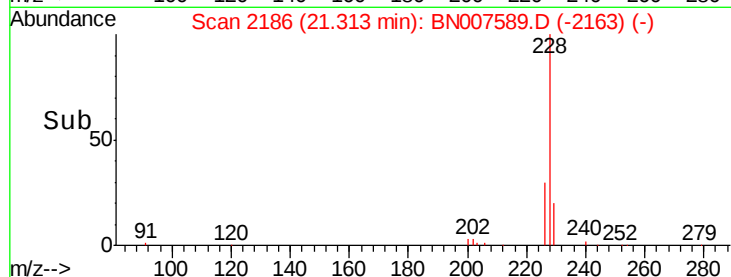
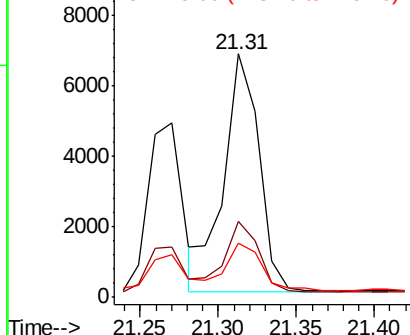
228 100

226 31.4 21.6 32.4

229 22.5 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

Chrysene

Concen: 0.080 ng

RT: 21.31 min Scan# 2186

Delta R.T. -0.01 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

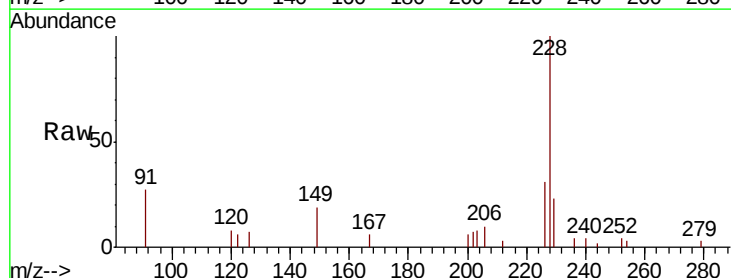
Tgt Ion:228 Resp: 10521

Ion Ratio Lower Upper

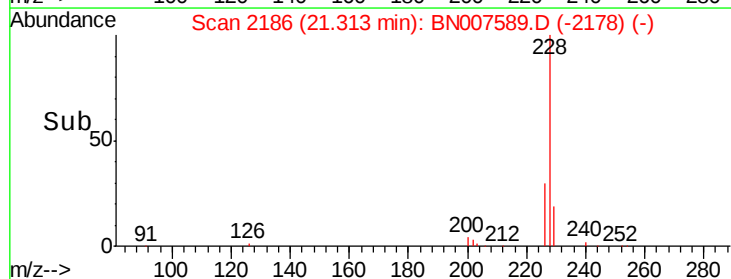
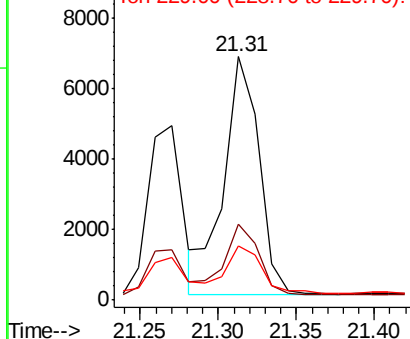
228 100

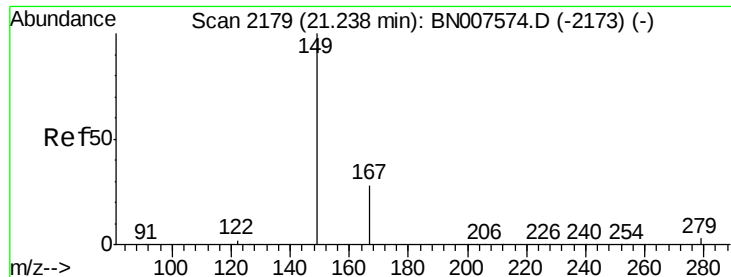
226 31.4 23.4 35.2

229 22.5 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

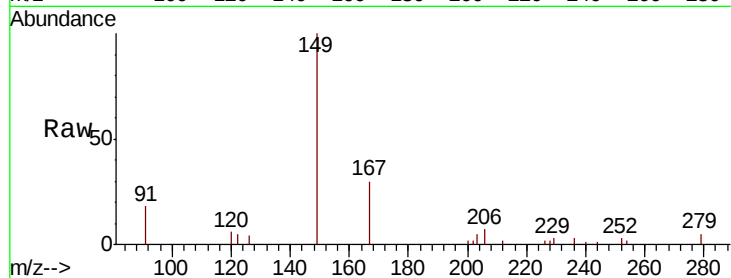




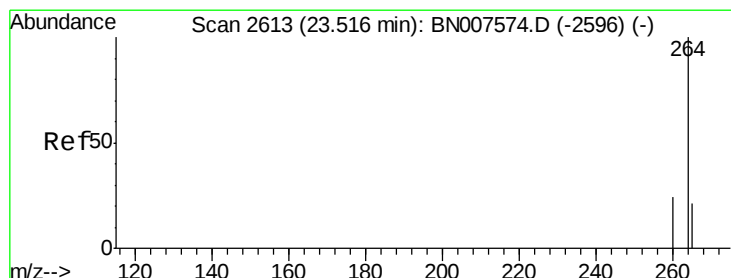
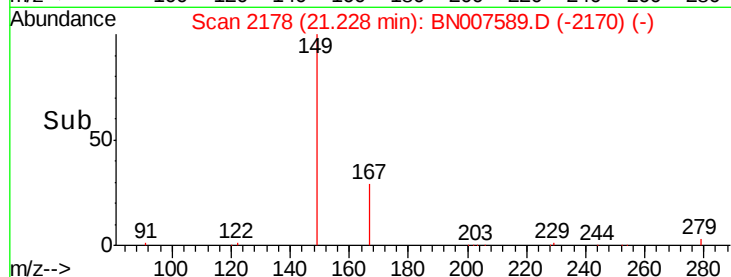
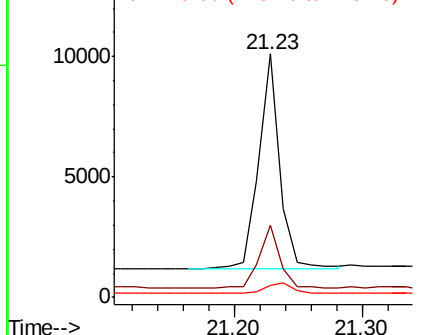
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.234 ng
 RT: 21.23 min Scan# 2178
 Delta R.T. -0.01 min
 Lab File: BN007589.D
 Acq: 11 Sep 2019 15:52

Instrument :
 BNA_N
 ClientSampled :

Tot Ion:149 Resp: 10301
 Ion Ratio Lower Upper
 149 100
 167 28.5 22.1 33.1
 279 5.8 3.9 5.9

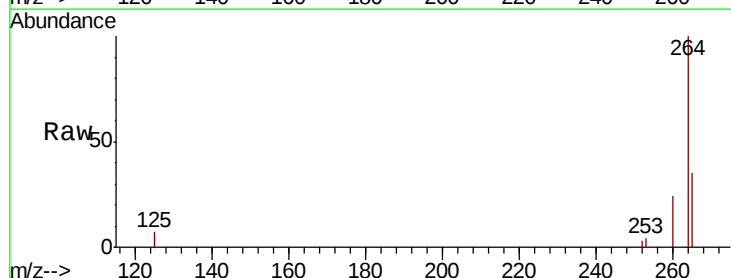


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

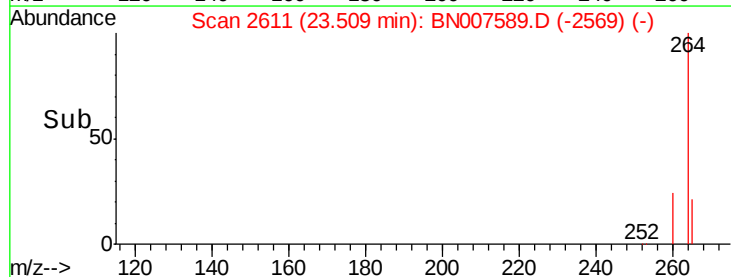
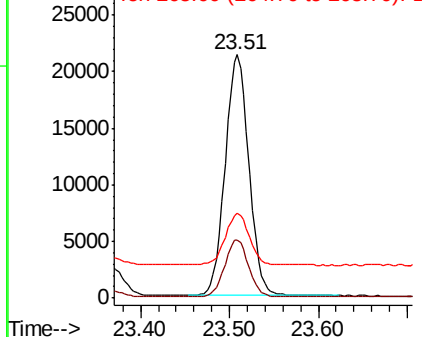


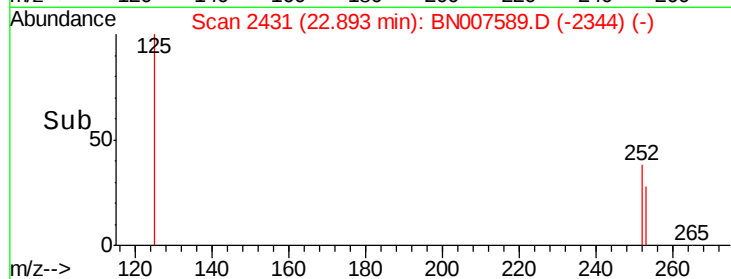
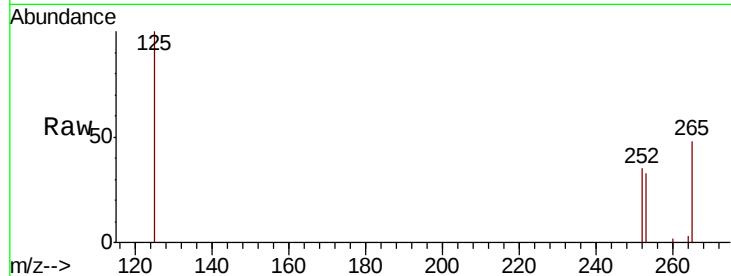
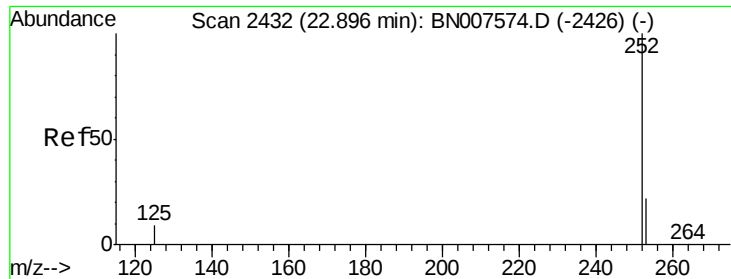
#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.51 min Scan# 2611
 Delta R.T. -0.01 min
 Lab File: BN007589.D
 Acq: 11 Sep 2019 15:52

Tgt Ion:264 Resp: 39473
 Ion Ratio Lower Upper
 264 100
 260 24.1 19.3 28.9
 265 34.6 25.6 38.4



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





#36

Benzo(k)fluoranthene

Concen: 0.022 ng

RT: 22.89 min Scan# 2431

Delta R.T. -0.00 min

Lab File: BN007589.D

Acq: 11 Sep 2019 15:52

Instrument :

BNA_N

ClientSampleId :

Tot Ion: 252 Resp: 3047

Ion Ratio Lower Upper

252 100

253 95.3 18.4 27.6#

125 285.3 8.2 12.2#

