

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
 Data File : BN008019.D
 Acq On : 05 Oct 2019 00:33
 Operator : JU
 Sample : K5078-20RE
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW135-092519RE

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:45:54 AM

Quant Time: Oct 05 04:25:44 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Oct 03 18:39:49 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	24787	0.40	ng	-0.02
7) Naphthalene-d8	10.46	136	97437	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	53118	0.40	ng	-0.02
19) Phenanthrene-d10	17.07	188	100208	0.40	ng	0.00
27) Chrysene-d12	21.26	240	121898	0.40	ng	0.00
34) Perylene-d12	23.48	264	151157	0.40	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.33	112	19418	0.23	ng	0.00
5) Phenol-d6	6.89	99	25994	0.24	ng	0.02
8) Nitrobenzene-d5	8.82	82	21953	0.26	ng	-0.01
11) 2-Methylnaphthalene-d10	12.05	152	42358	0.26	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	7447	0.26	ng	0.00
15) 2-Fluorobiphenyl	12.93	172	56176	0.26	ng	-0.02
25) Fluoranthene-d10	19.10	212	89183	0.26	ng	0.00
29) Terphenyl-d14	19.70	244	77566	0.26	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.51	128	50174	0.183	ng	99
12) 2-Methylnaphthalene	12.12	142	30931	0.167	ng	98
16) Acenaphthylene	14.03	152	256390	0.910	ng	100
17) Acenaphthene	14.38	154	136590	0.752	ng	97
18) Fluorene	15.37	166	196535	0.844	ng	97
22) Pentachlorophenol	16.73	266	555	0.023	ng	# 85
23) Phenanthrene	17.11	178	3686463	11.809	ng	99
24) Anthracene	17.19	178	391971	1.390	ng	# 92
26) Fluoranthene	19.13	202	5775158	14.878	ng	98
28) Pvrene	19.50	202	5054137	12.157	ng	# 94
30) Benzo(a)anthracene	21.24	228	2339322	5.211	ng	98
31) Chrysene	21.29	228	2881050	6.585	ng	98
32) Bis(2-ethylhexyl)phthalate	21.18	149	94900m	0.411	ng	
33) Indeno(1,2,3-cd)pyrene	25.71	276	2016669	3.682	ng	# 94
35) Benzo(b)fluoranthene	22.82	252	3844060	7.325	ng	98
36) Benzo(k)fluoranthene	22.86	252	1335375m	2.573	ng	
37) Benzo(a)pvrene	23.39	252	2530725m	5.132	ng	
38) Dibenzo(a,h)anthracene	25.71	278	463219	0.918	ng	97
39) Benzo(g,h,i)perylene	26.39	276	1958061	3.922	ng	98

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

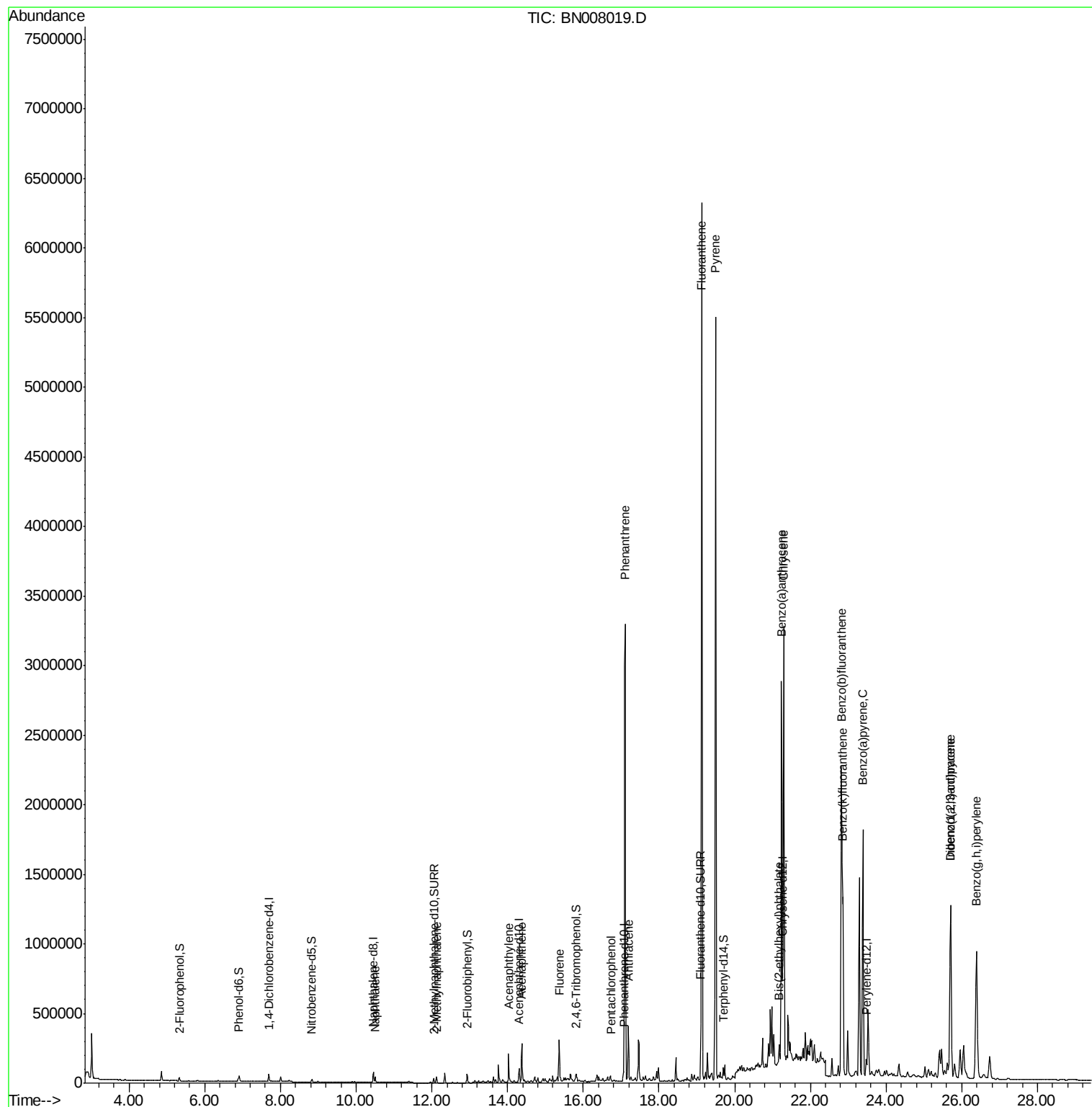
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
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#1

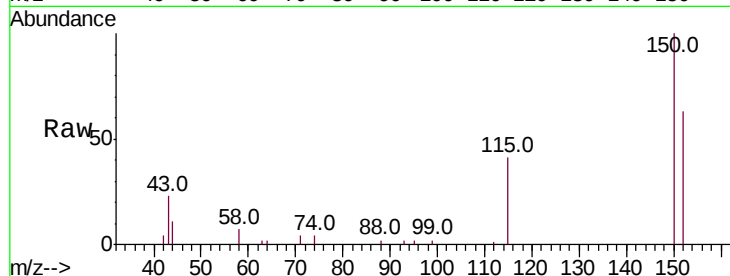
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 603
Delta R.T. -0.02 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519RE

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	125.6	188.4
115	64.9	53.3	79.9

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Abundance

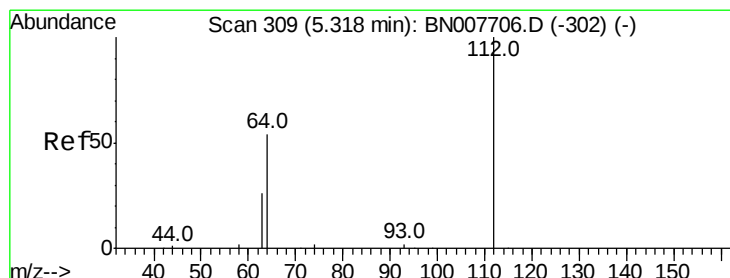
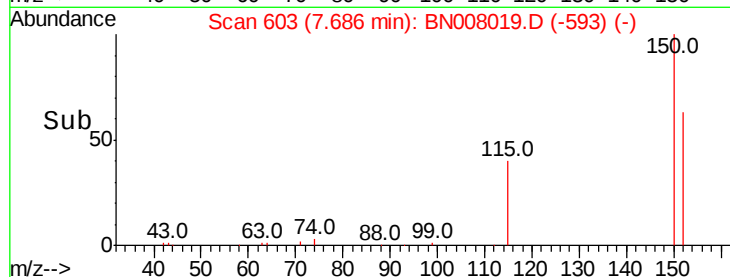
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

7.69

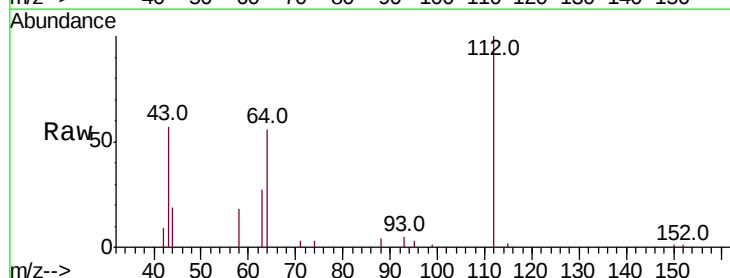
Time-->



#4

2-Fluorophenol
Concen: 0.228 ng
RT: 5.33 min Scan# 310
Delta R.T. 0.01 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.1	46.6	70.0
63	29.3	23.1	34.7



Abundance

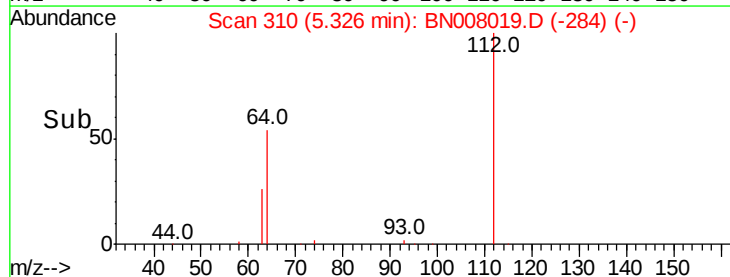
Ion 112.00 (111.70 to 112.70): E

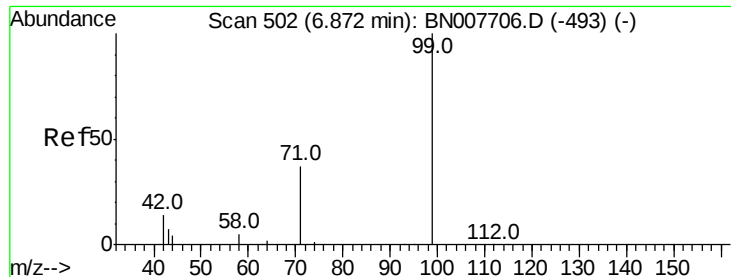
Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC

5.33

Time-->





#5

Phenol-d6

Concen: 0.242 ng

RT: 6.89 min Scan# 504

Delta R.T. 0.02 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Instrument :

BNA_N

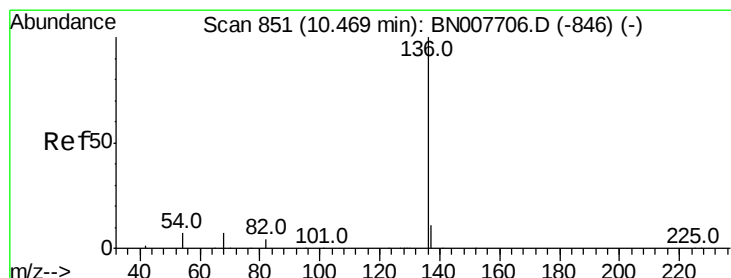
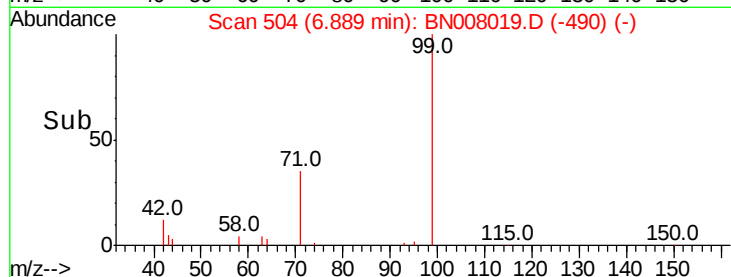
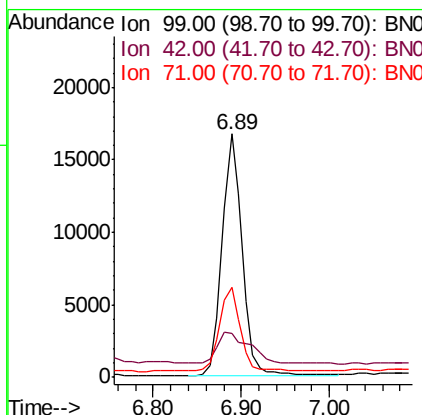
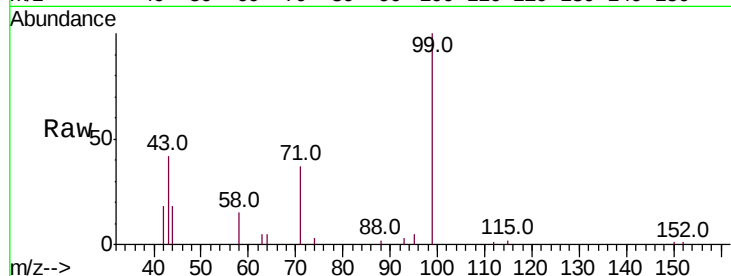
ClientSampleId :

PST-024-SW135-092519RE

Tot Ion:	99	Resp:	25994
Ion	Ratio	Lower	Upper
99	100		
42	20.5	12.8	19.2#
71	35.9	27.6	41.4

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#7

Naphthalene-d8

Concen: 0.400 ng

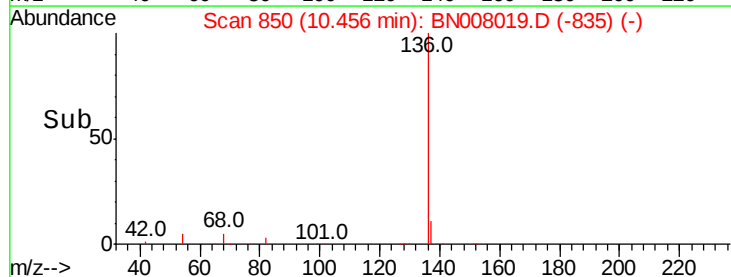
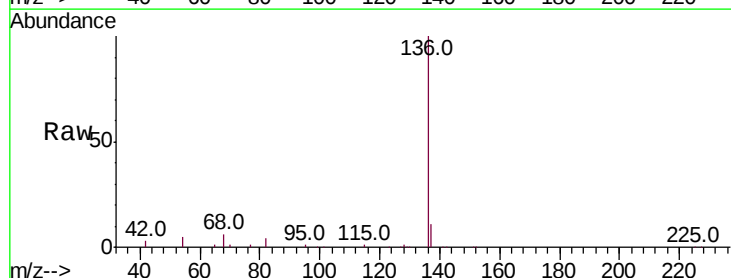
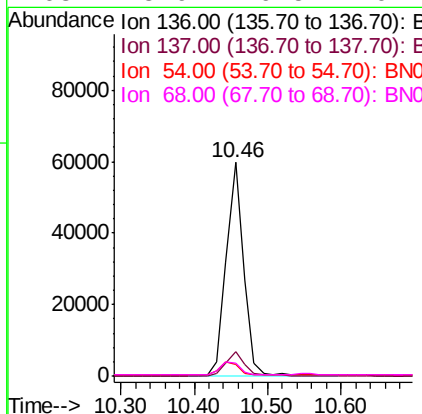
RT: 10.46 min Scan# 850

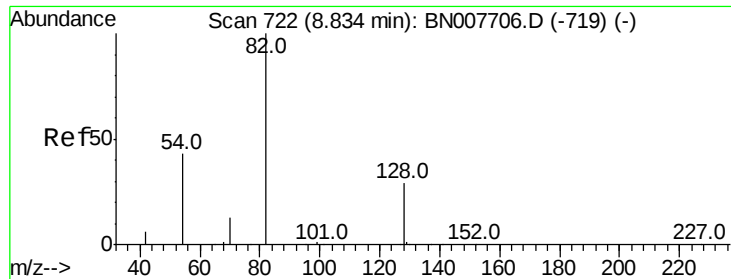
Delta R.T. -0.01 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Tgt Ion:	136	Resp:	97437
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	5.2	5.8	8.8#
68	5.9	6.5	9.7#





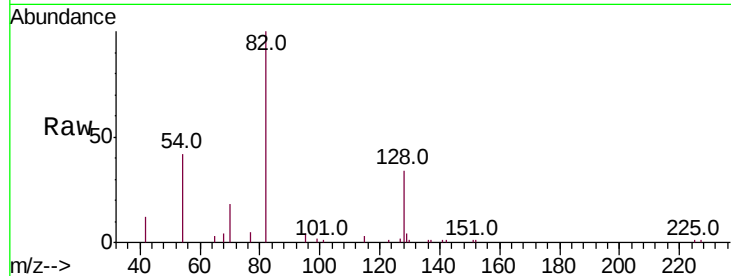
#8
 Nitrobenzene-d5
 Concen: 0.258 ng
 RT: 8.82 min Scan# 721
 Delta R.T. -0.01 min
 Lab File: BN008019.D
 Acq: 05 Oct 2019 00:33

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW135-092519RE

Tot Ion	Ratio	Lower	Upper
82	100		
128	33.8	24.5	36.7
54	42.2	35.2	52.8

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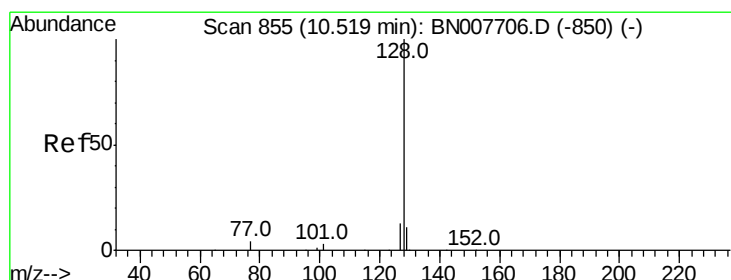
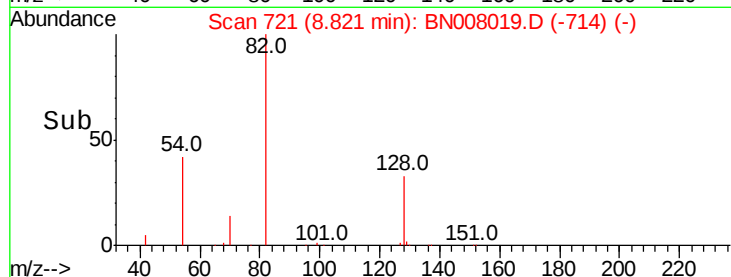
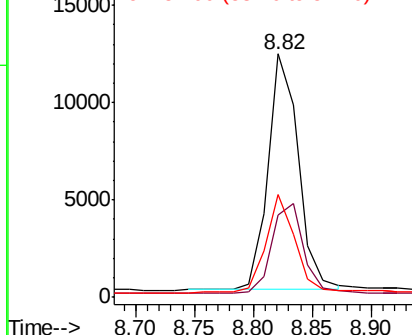


Abundance

Ion 82.00 (81.70 to 82.70): BN007706.D (-719) (-)

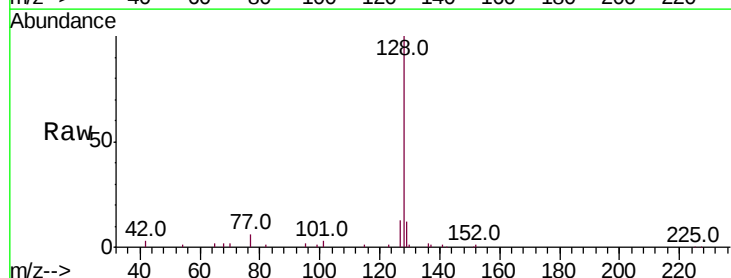
Ion 128.00 (127.70 to 128.70): BN007706.D (-719) (-)

Ion 54.00 (53.70 to 54.70): BN007706.D (-719) (-)



#9
 Naphthalene
 Concen: 0.183 ng
 RT: 10.51 min Scan# 854
 Delta R.T. -0.01 min
 Lab File: BN008019.D
 Acq: 05 Oct 2019 00:33

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.1	13.7
127	13.3	10.6	15.8

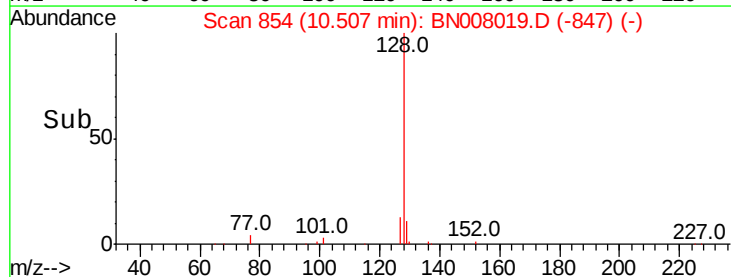
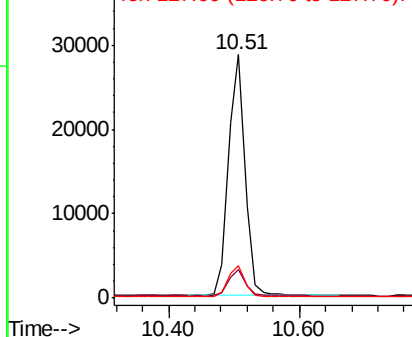


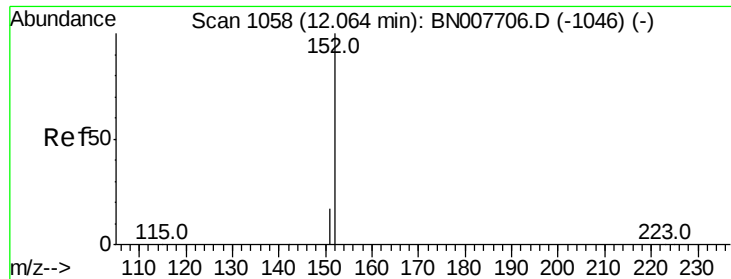
Abundance

Ion 128.00 (127.70 to 128.70): BN007706.D (-850) (-)

Ion 129.00 (128.70 to 129.70): BN007706.D (-850) (-)

Ion 127.00 (126.70 to 127.70): BN007706.D (-850) (-)





#11

2-Methylnaphthalene-d10

Concen: 0.258 ng

RT: 12.05 min Scan# 1055

Delta R.T. -0.01 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Instrument :

BNA_N

ClientSampleId :

PST-024-SW135-092519RE

Tot Ion:152 Resp: 42358

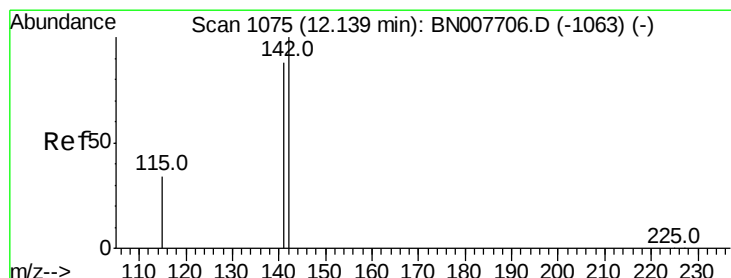
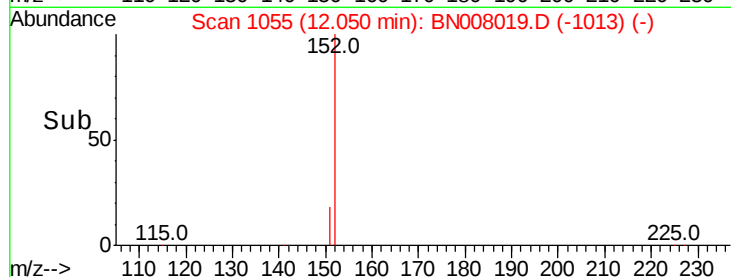
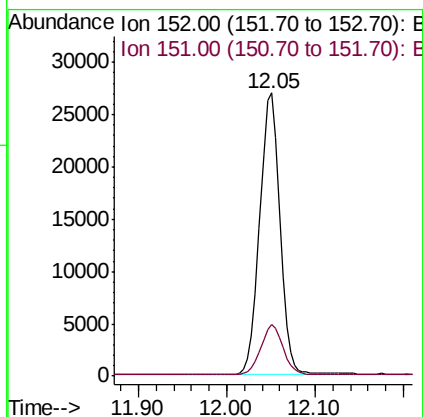
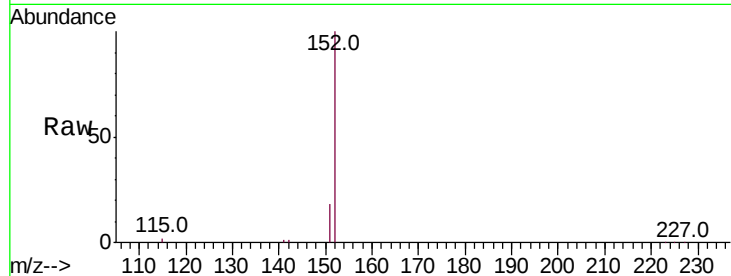
Ion Ratio Lower Upper

152 100

151 19.0 15.4 23.2

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#12

2-Methylnaphthalene

Concen: 0.167 ng

RT: 12.12 min Scan# 1071

Delta R.T. -0.02 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

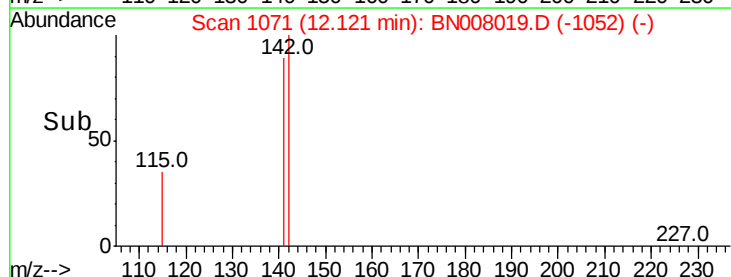
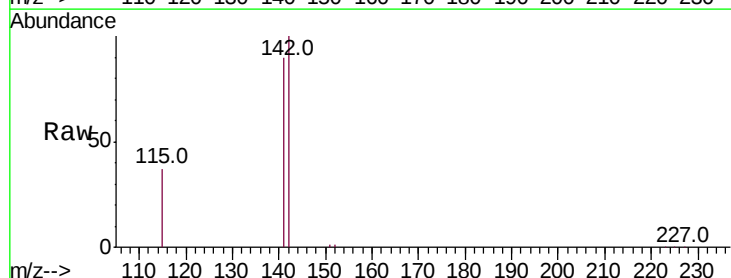
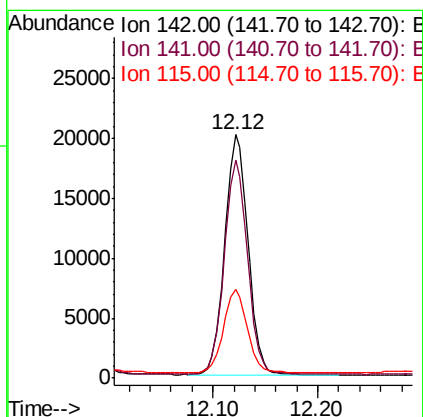
Tgt Ion:142 Resp: 30931

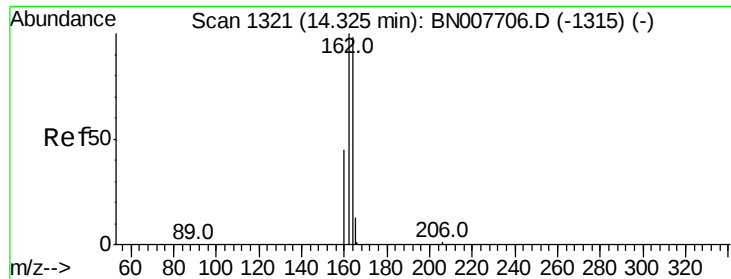
Ion Ratio Lower Upper

142 100

141 89.8 70.6 106.0

115 36.6 28.3 42.5





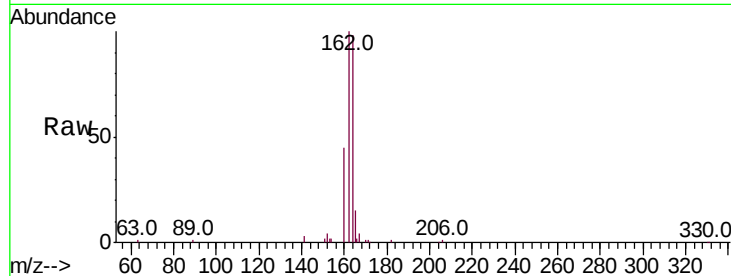
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519RE

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.3	81.7	122.5
160	45.8	37.0	55.4

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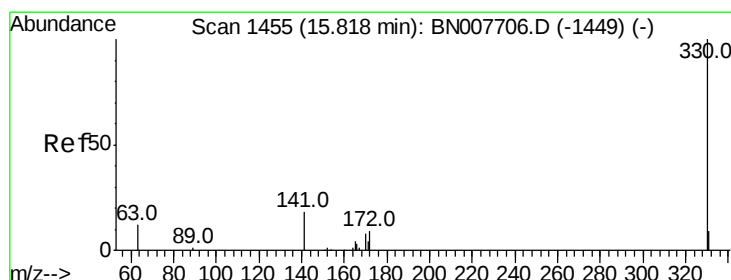
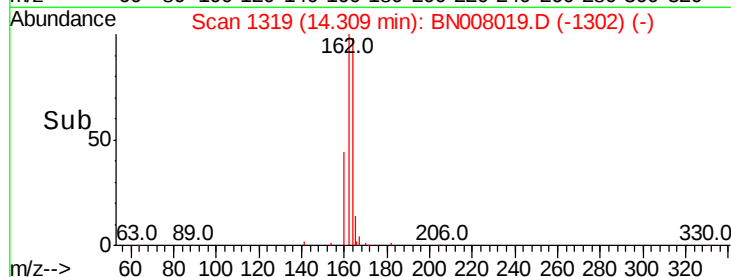
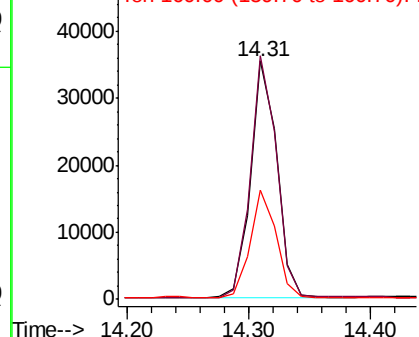


Abundance

Ion 164.00 (163.70 to 164.70): E

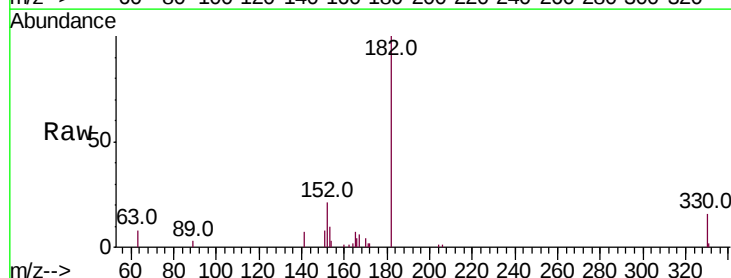
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14
2,4,6-Tribromophenol
Concen: 0.257 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.00 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	56.6	28.7	43.1#

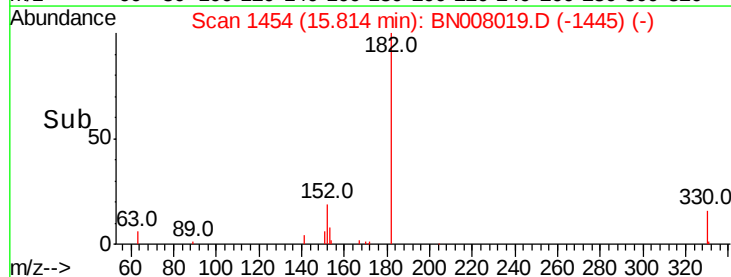
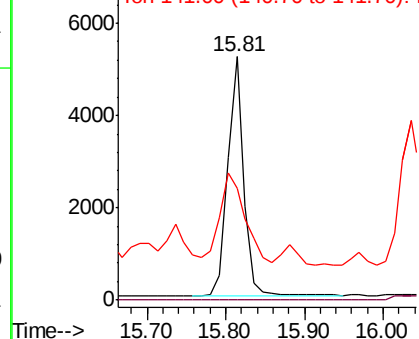


Abundance

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: 0.257 ng

RT: 12.93 min Scan# 1195

Delta R.T. -0.02 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Instrument :

BNA_N

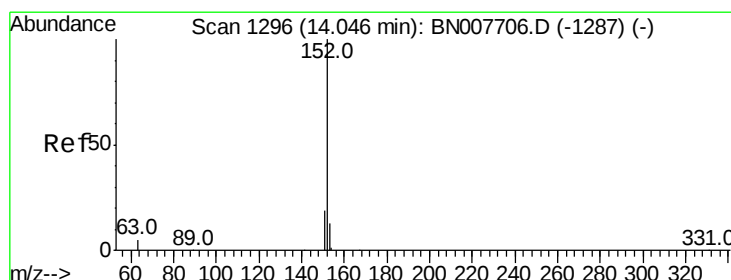
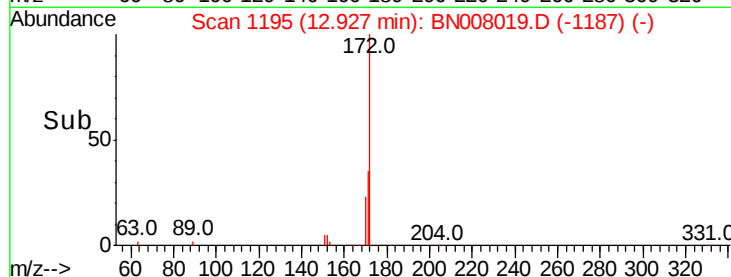
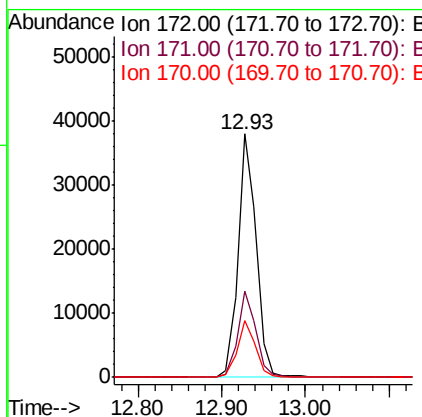
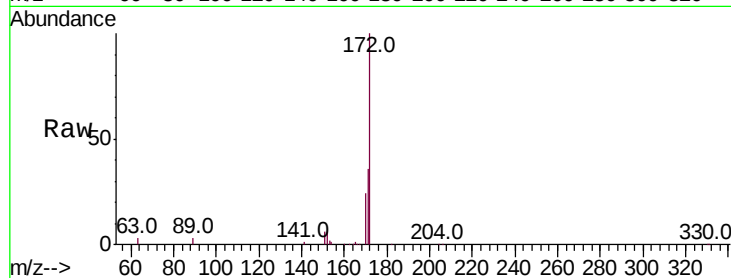
ClientSampleId :

PST-024-SW135-092519RE

Tot Ion:	172	Resp:	56176
Ion Ratio	Lower	Upper	
172	100		
171	35.6	28.8	43.2
170	23.5	19.5	29.3

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#16

Acenaphthylene

Concen: 0.910 ng

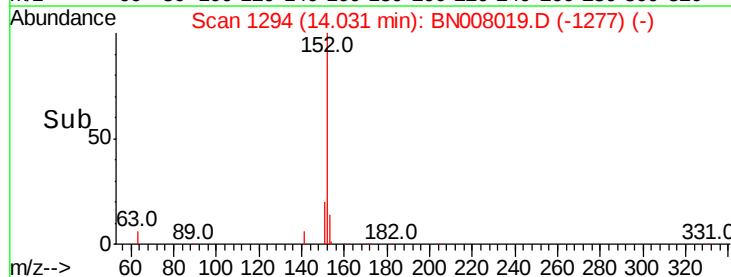
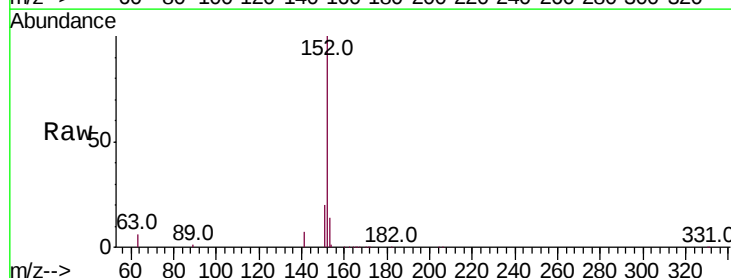
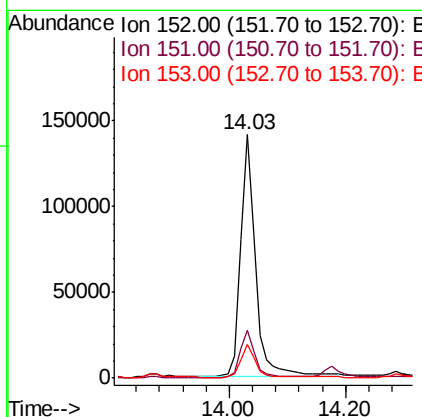
RT: 14.03 min Scan# 1294

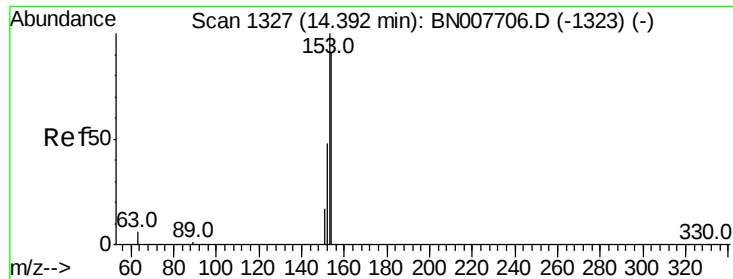
Delta R.T. -0.02 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Tgt Ion:	152	Resp:	256390
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.5	23.3
153	13.3	10.4	15.6





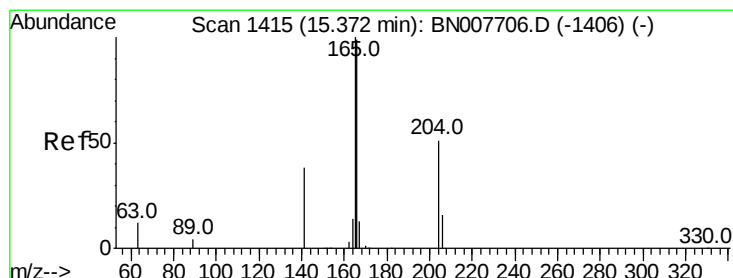
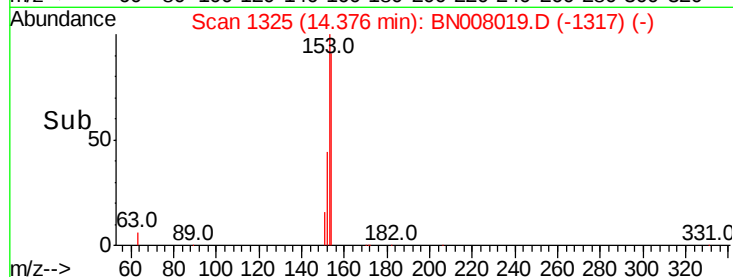
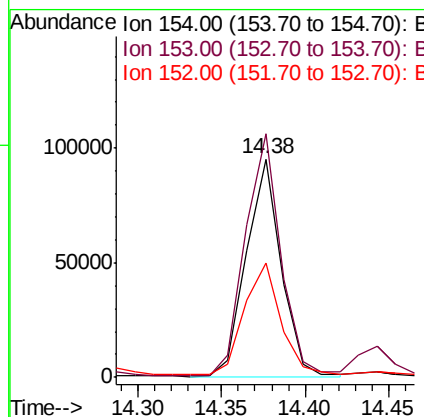
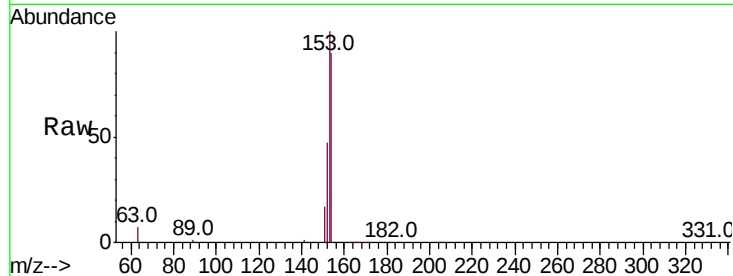
#17
Acenaphthene
Concen: 0.752 ng
RT: 14.38 min Scan# 1325
Delta R.T. -0.02 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519RE

Tot Ion	Ratio	Lower	Upper
154	100		
153	112.8	87.0	130.4
152	53.2	42.7	64.1

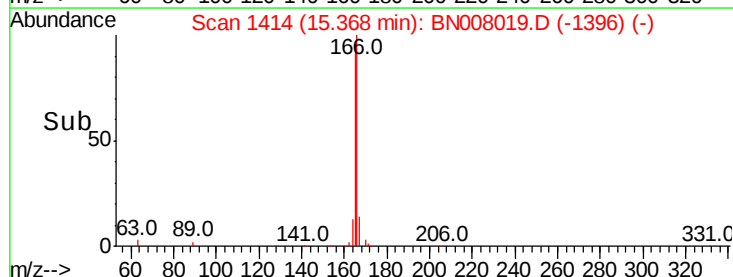
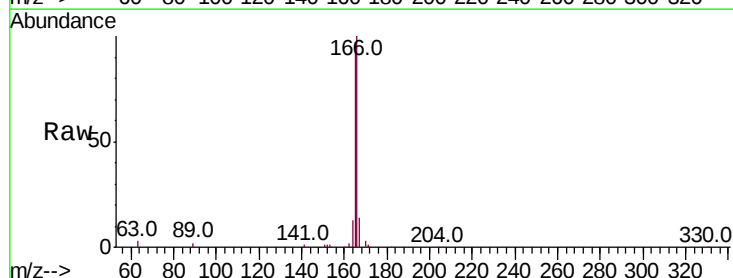
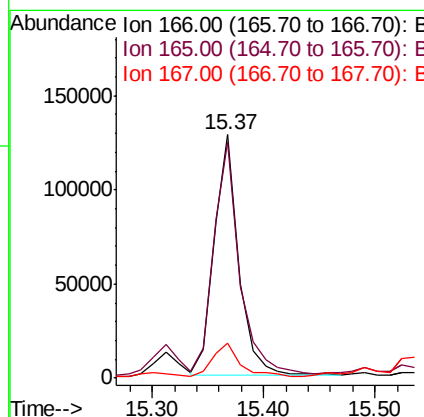
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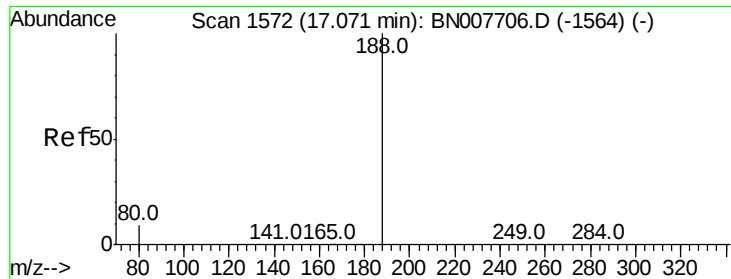
mohammad
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#18
Fluorene
Concen: 0.844 ng
RT: 15.37 min Scan# 1414
Delta R.T. -0.00 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.1	78.0	117.0
167	15.5	10.9	16.3





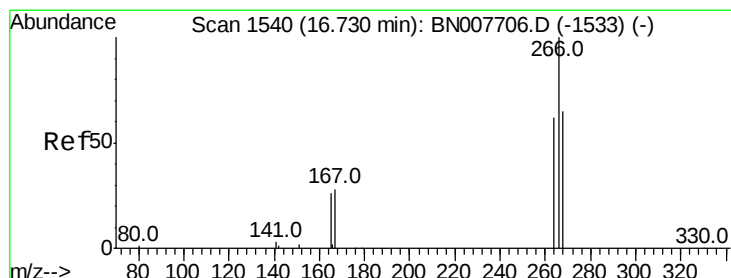
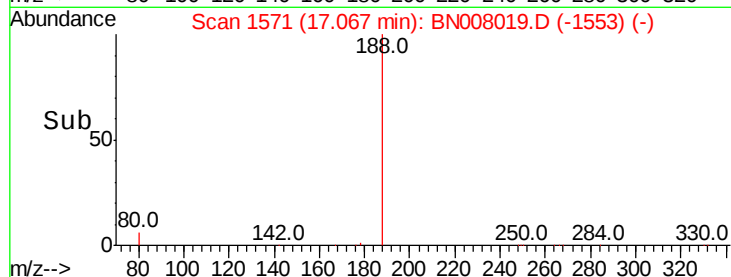
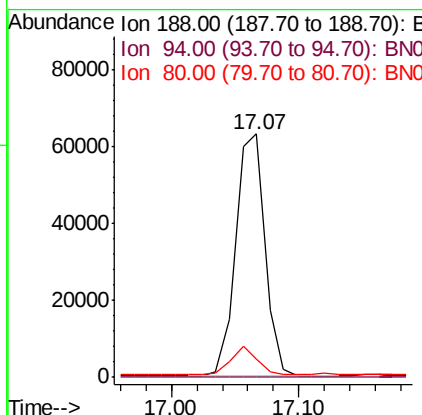
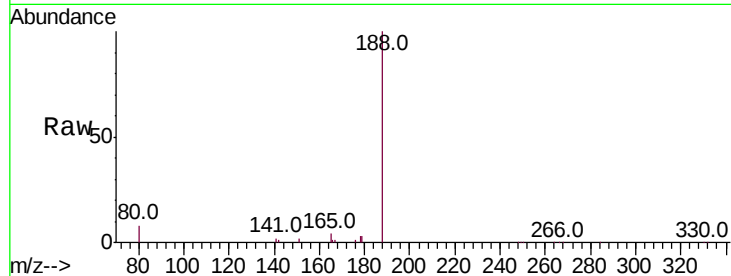
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.07 min Scan# 1571
Delta R.T. -0.00 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519RE

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	0.0	0.0	0.0	
80	7.5	7.4	11.2	

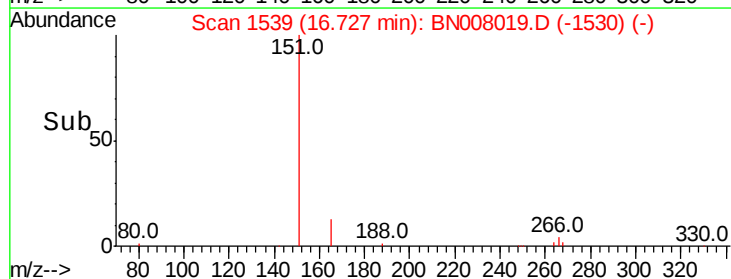
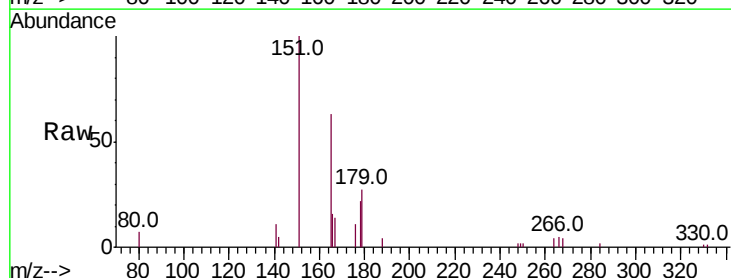
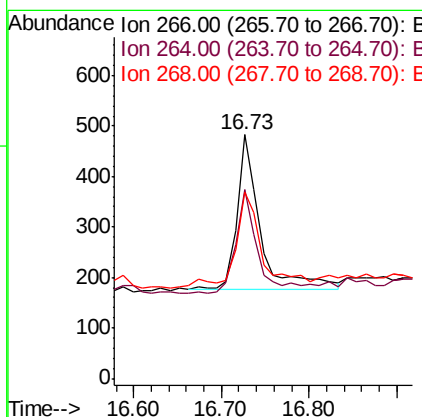
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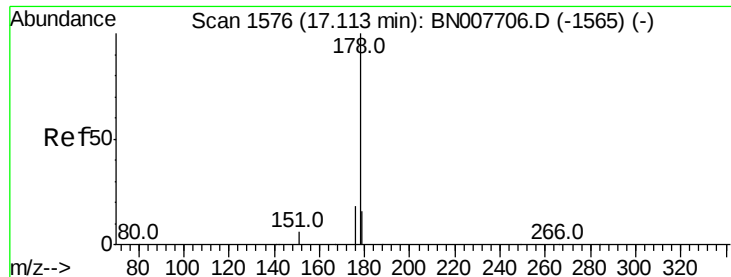
mohammad
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#22
Pentachlorophenol
Concen: 0.023 ng
RT: 16.73 min Scan# 1539
Delta R.T. -0.00 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Tgt Ion	Ratio	Resp	Lower	Upper
266	100			
264	77.6	50.0	75.0#	
268	76.6	54.2	81.4	





#23

Phenanthrene

Concen: 11.809 ng

RT: 17.11 min Scan# 1575

Delta R.T. -0.00 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Instrument :

BNA_N

ClientSampleId :

PST-024-SW135-092519RE

Tot Ion:178 Resp: 3686463

Ion Ratio Lower Upper

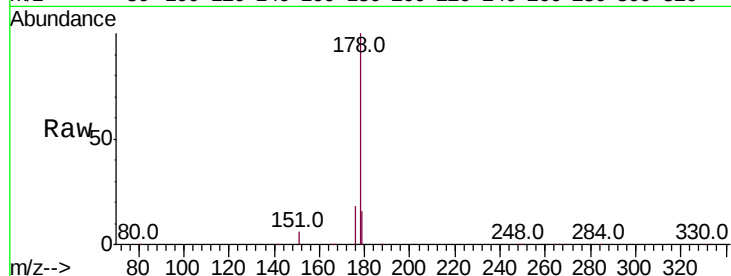
178 100

176 18.6 14.9 22.3

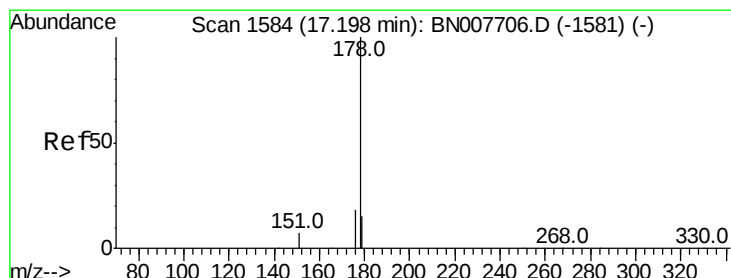
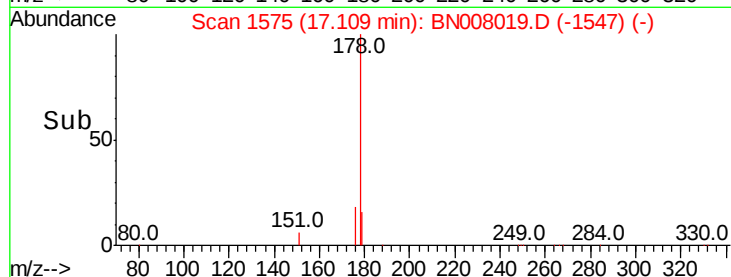
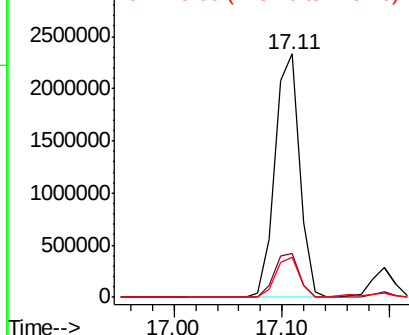
179 16.1 12.5 18.7

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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: 1.390 ng

RT: 17.19 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

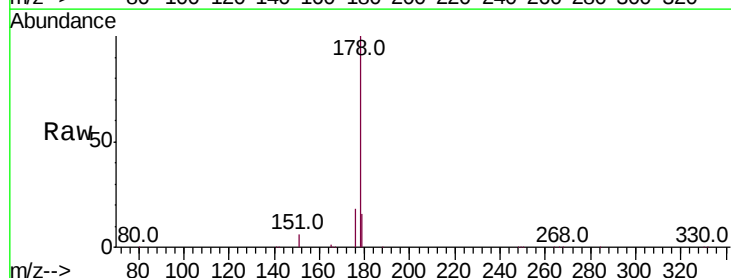
Tgt Ion:178 Resp: 391971

Ion Ratio Lower Upper

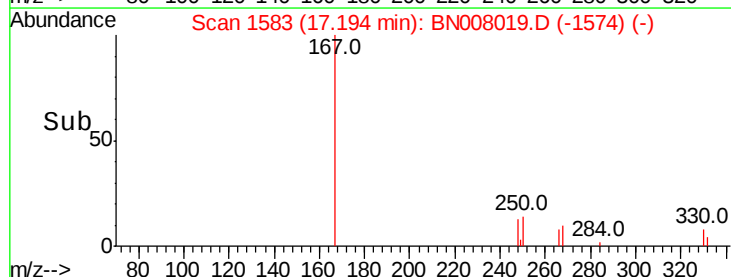
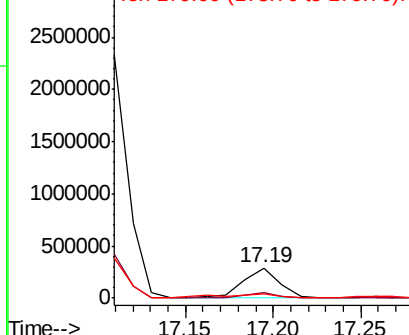
178 100

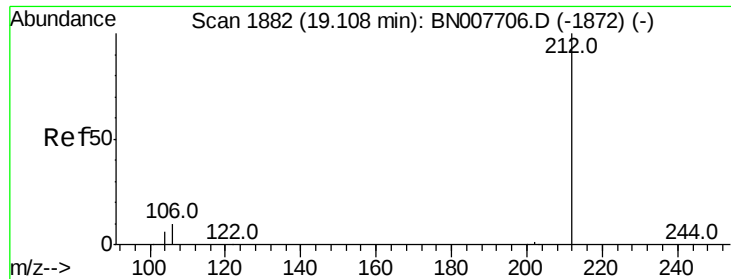
176 17.9 14.6 21.8

179 22.5 12.2 18.4#



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





#25

Fluoranthene-d10

Concen: 0.264 ng

RT: 19.10 min Scan# 1879

Delta R.T. -0.01 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Instrument :

BNA_N

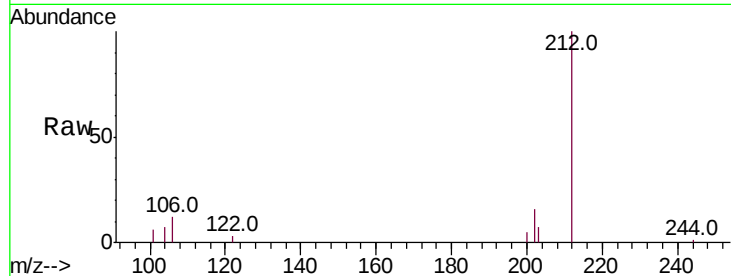
ClientSampleId :

PST-024-SW135-092519RE

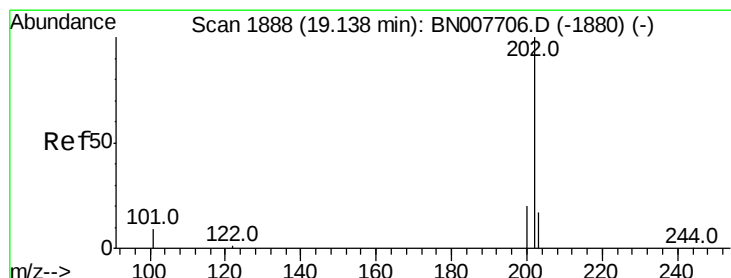
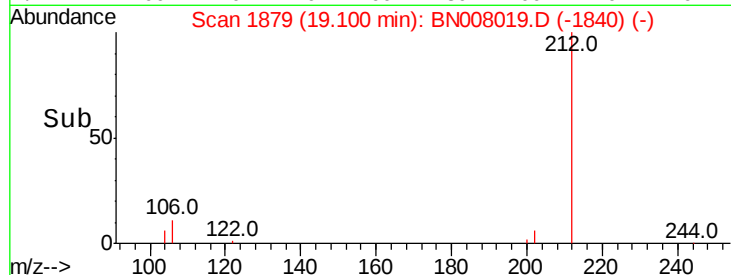
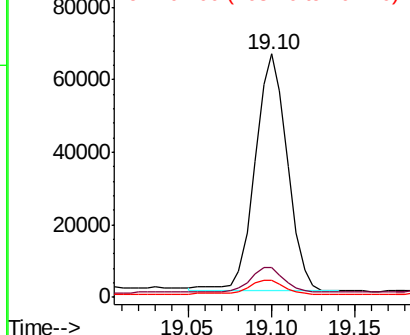
Tot Ion:	212	Resp:	89183
Ion Ratio	Lower	Upper	
212	100		
106	10.8	9.4	14.0
104	7.2	5.3	7.9

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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: 14.878 ng

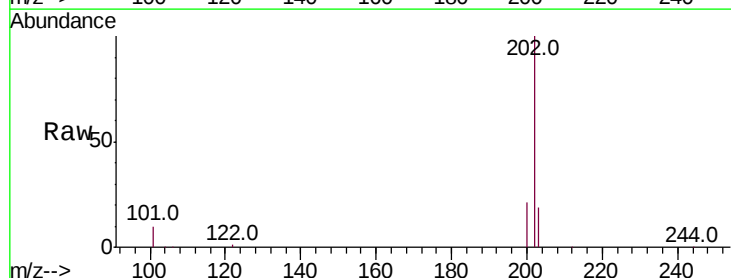
RT: 19.13 min Scan# 1886

Delta R.T. -0.00 min

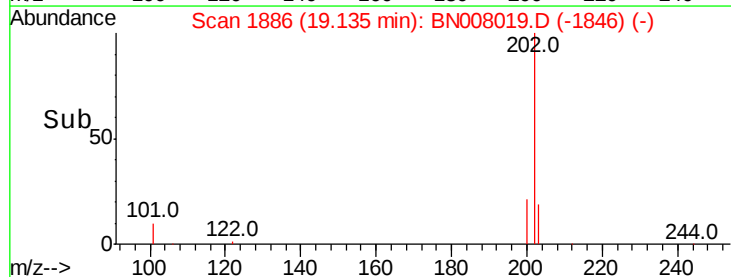
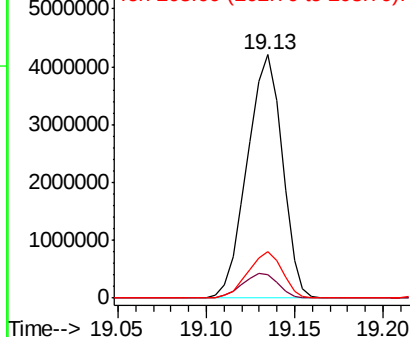
Lab File: BN008019.D

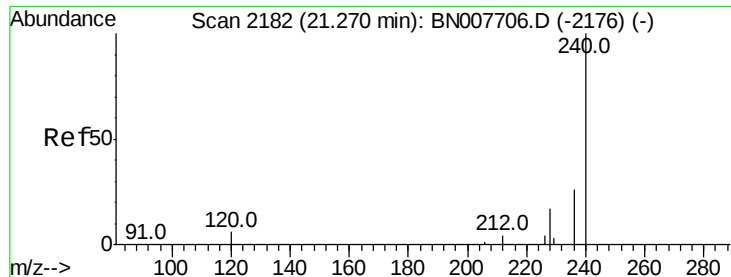
Acq: 05 Oct 2019 00:33

Tgt Ion:	202	Resp:	5775158
Ion Ratio	Lower	Upper	
202	100		
101	10.2	8.4	12.6
203	18.5	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





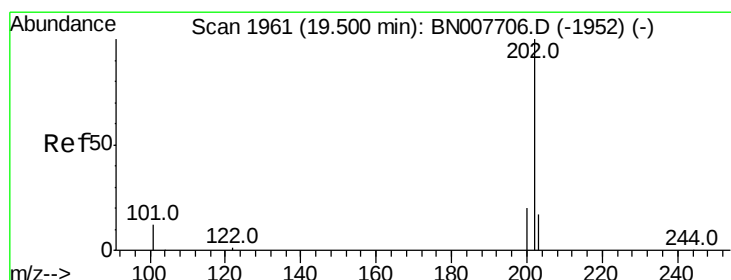
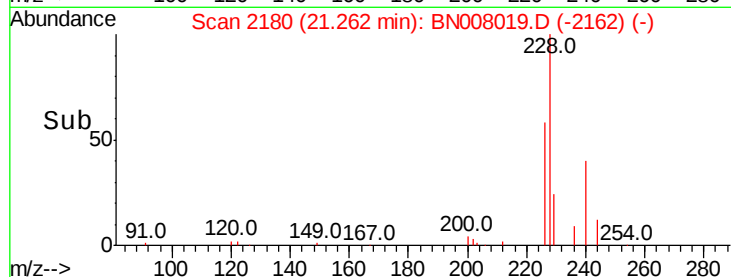
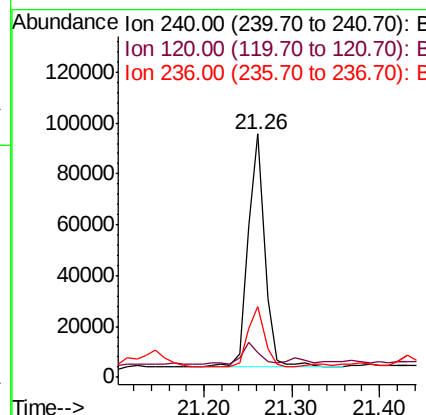
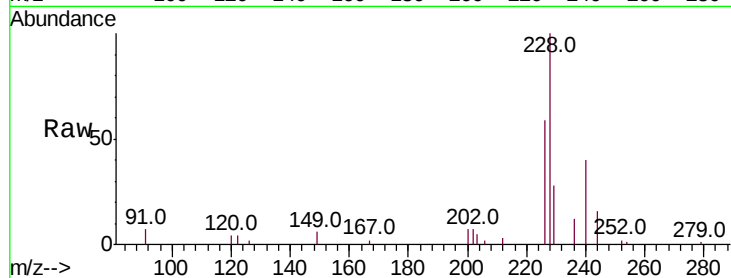
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.26 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519RE

Tot Ion	Ratio	Lower	Upper
240	100		
120	9.9	5.4	8.2#
236	29.0	21.0	31.4

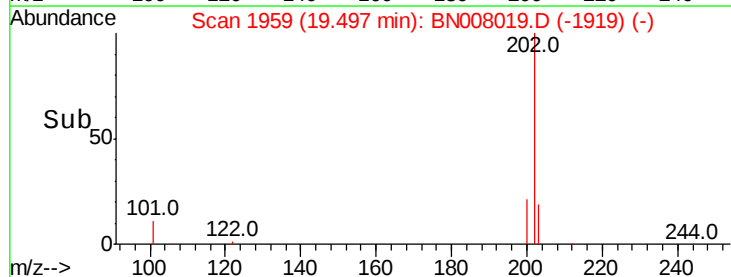
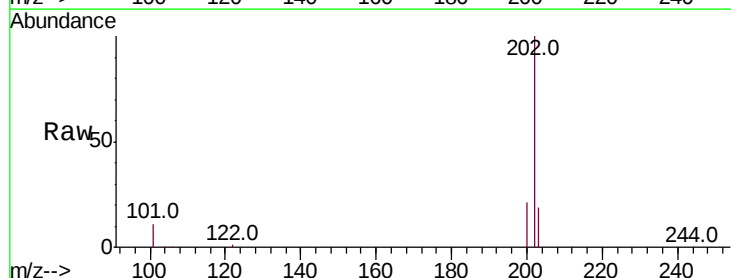
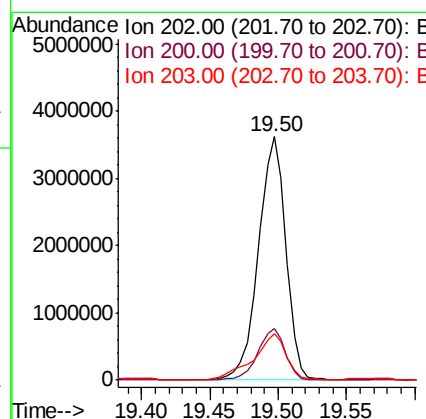
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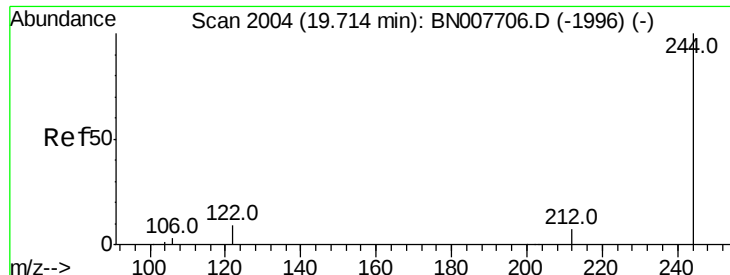
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#28
Pyrene
Concen: 12.157 ng
RT: 19.50 min Scan# 1959
Delta R.T. -0.00 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.4	24.6
203	22.6	14.1	21.1#





#29

Terphenyl-d14

Concen: 0.259 ng

RT: 19.70 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Instrument :

BNA_N

ClientSampleId :

PST-024-SW135-092519RE

Tot Ion:244 Resp: 77566

Ion Ratio Lower Upper

244 100

212 9.4 5.9 8.9#

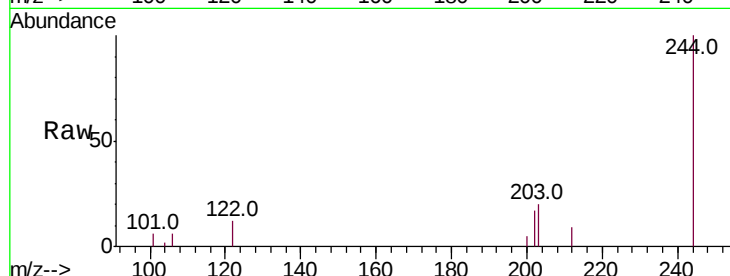
122 12.2 7.4 11.2#

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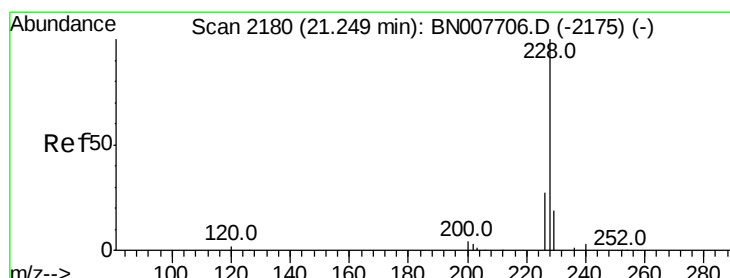
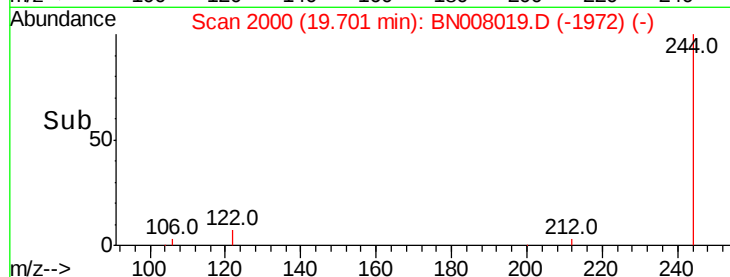
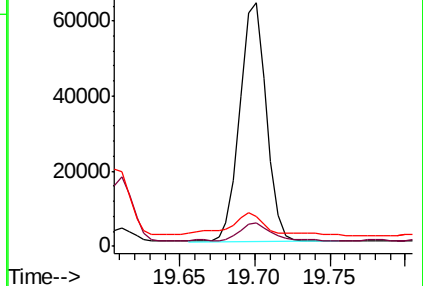
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 5.211 ng

RT: 21.24 min Scan# 2178

Delta R.T. -0.01 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Tgt Ion:228 Resp: 2339322

Ion Ratio Lower Upper

228 100

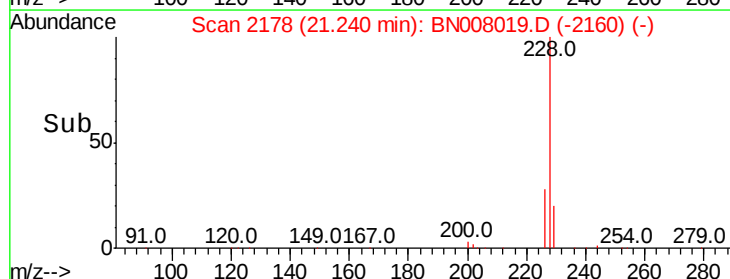
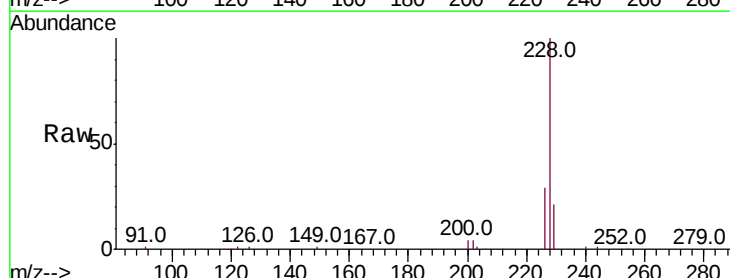
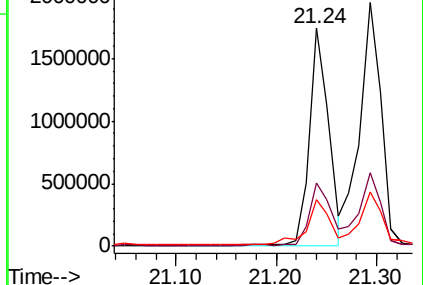
226 28.7 22.1 33.1

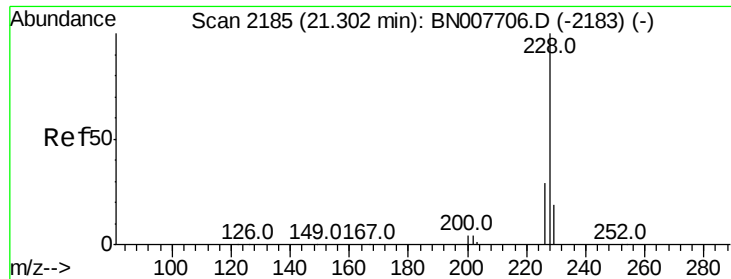
229 21.1 15.8 23.6

Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 6.585 ng

RT: 21.29 min Scan# 2183

Delta R.T. -0.01 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Instrument :

BNA_N

ClientSampleID :

PST-024-SW135-092519RE

Tot Ion:228 Resp: 2881050

Ion Ratio Lower Upper

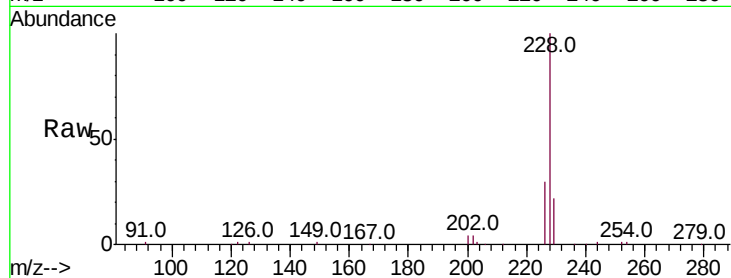
228 100

226 30.1 23.9 35.9

229 22.0 15.8 23.6

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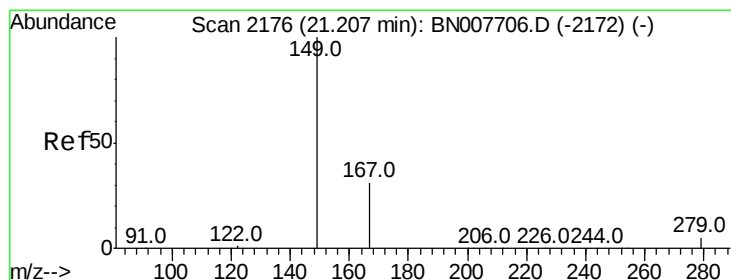
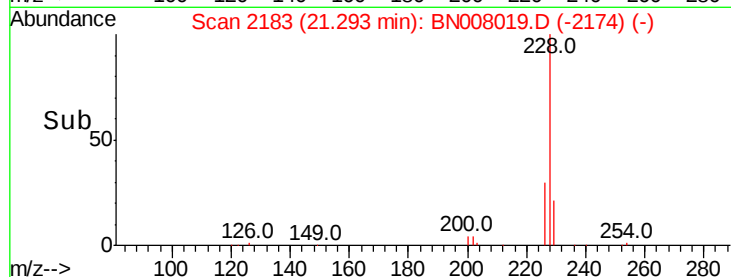
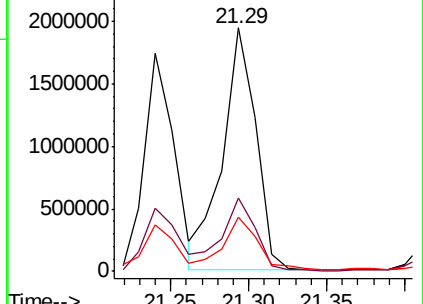
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.411 ng m

RT: 21.18 min Scan# 2172

Delta R.T. -0.03 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

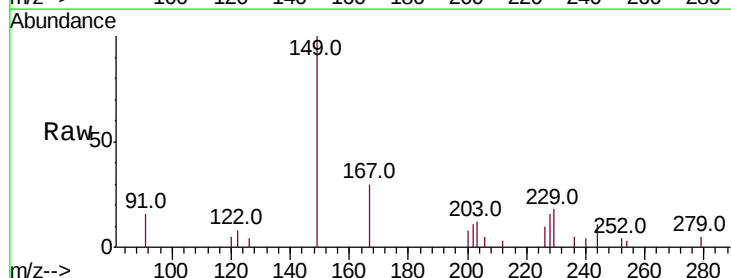
Tgt Ion:149 Resp: 94900

Ion Ratio Lower Upper

149 100

167 26.8 23.7 35.5

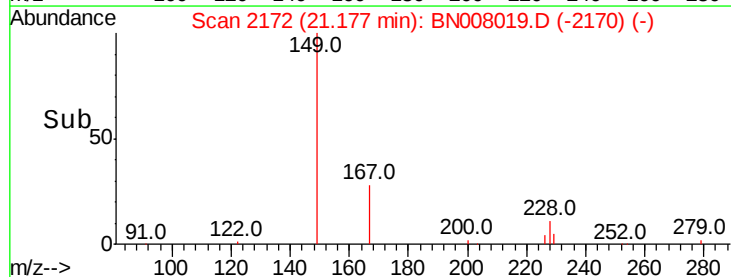
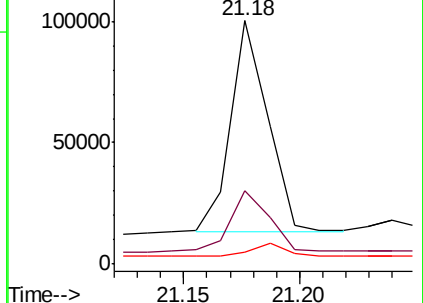
279 5.9 4.2 6.2

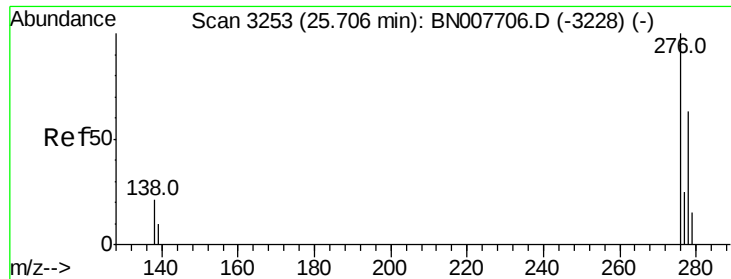


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





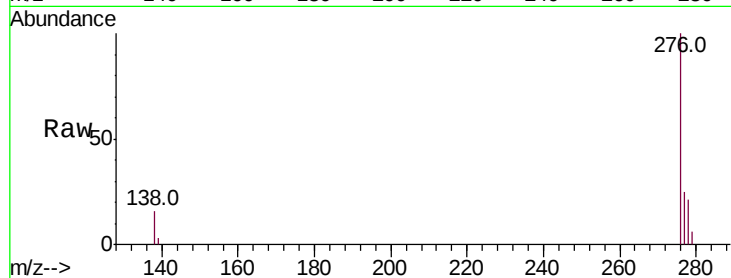
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 3.682 ng
 RT: 25.71 min Scan# 3252
 Delta R.T. 0.00 min
 Lab File: BN008019.D
 Acq: 05 Oct 2019 00:33

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW135-092519RE

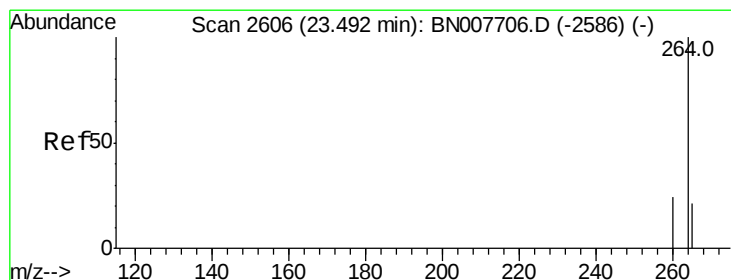
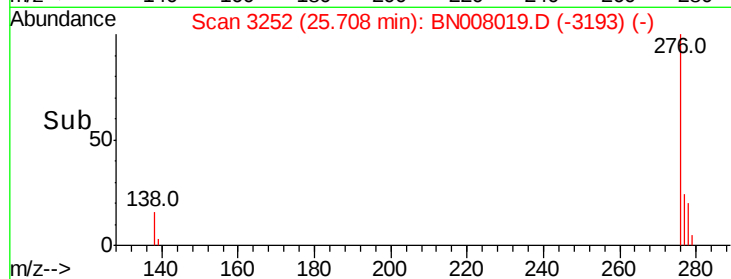
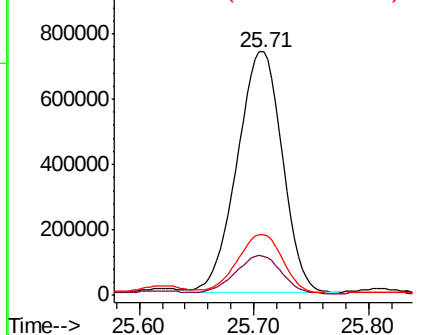
Tot Ion:276 Resp: 2016669
 Ion Ratio Lower Upper
 276 100
 138 15.8 17.1 25.7#
 277 24.6 20.0 30.0

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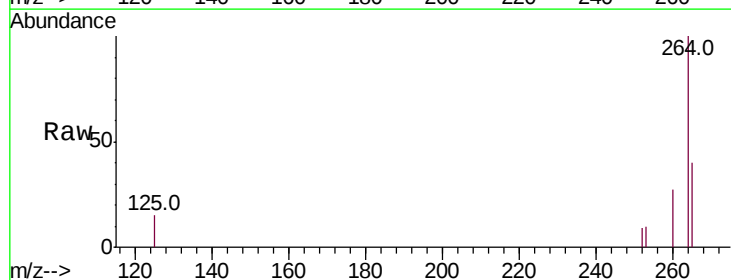


Abundance Ion 276.00 (275.70 to 276.70): E
 1000000 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

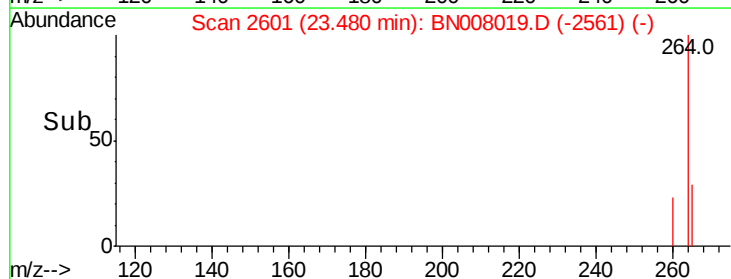
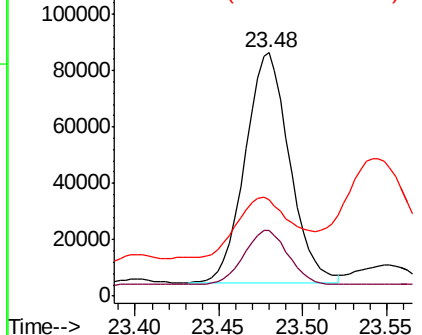


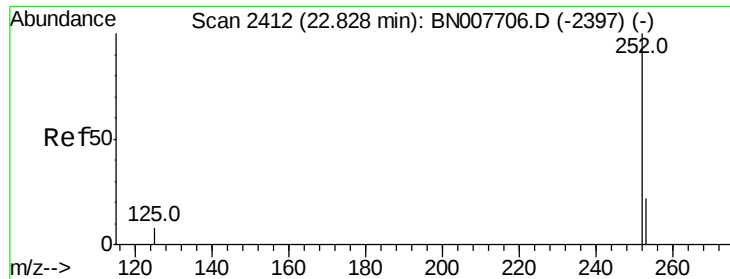
#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.48 min Scan# 2601
 Delta R.T. -0.01 min
 Lab File: BN008019.D
 Acq: 05 Oct 2019 00:33

Tgt Ion:264 Resp: 151157
 Ion Ratio Lower Upper
 264 100
 260 27.1 19.3 28.9
 265 39.5 26.9 40.3



Abundance Ion 264.00 (263.70 to 264.70): E
 120000 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





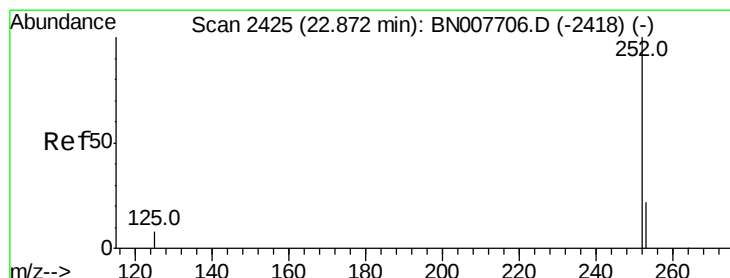
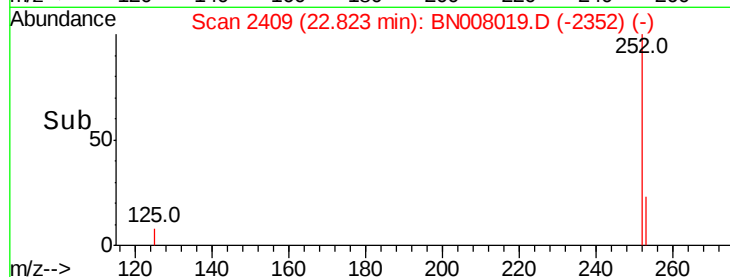
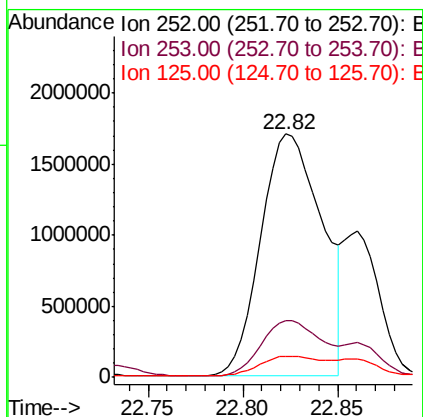
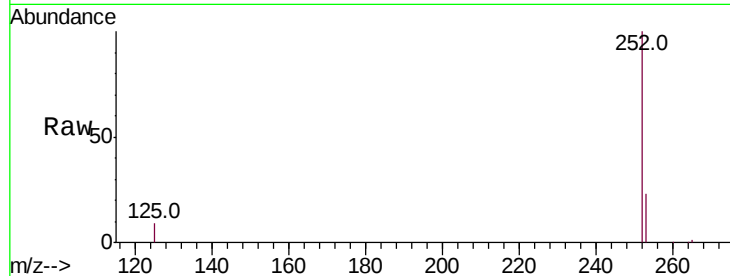
#35
Benzo(b)fluoranthene
Concen: 7.325 ng
RT: 22.82 min Scan# 2409
Delta R.T. -0.00 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Instrument :
BNA_N
ClientSampleId :
PST-024-SW135-092519RE

Tot Ion:252 Resp: 3844060
Ion Ratio Lower Upper
252 100
253 23.2 18.3 27.5
125 8.8 8.2 12.4

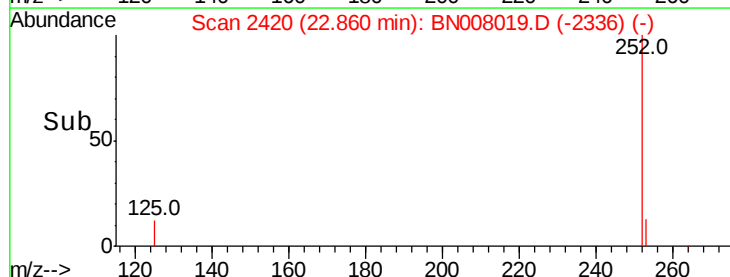
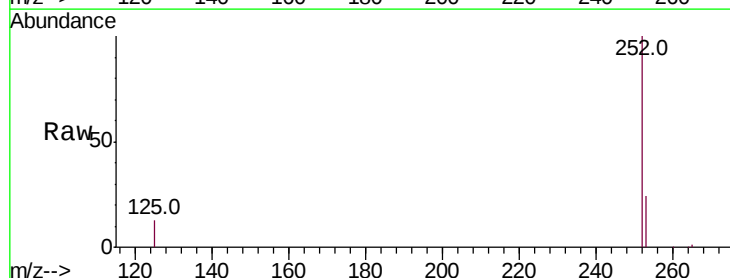
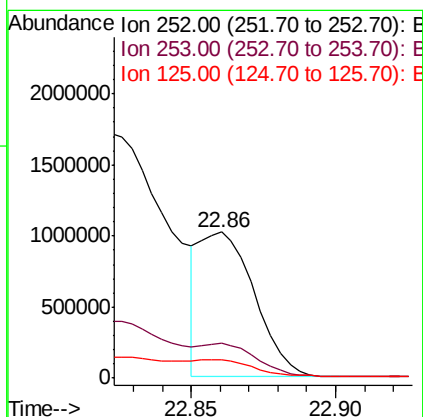
Manual Integrations
APPROVED

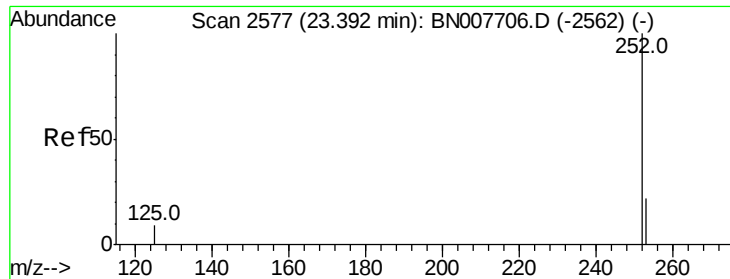
mohammad
10/7/2019 8:45:54 AM



#36
Benzo(k)fluoranthene
Concen: 2.573 ng m
RT: 22.86 min Scan# 2420
Delta R.T. -0.01 min
Lab File: BN008019.D
Acq: 05 Oct 2019 00:33

Tgt Ion:252 Resp: 1335375
Ion Ratio Lower Upper
252 100
253 23.6 18.5 27.7
125 12.8 8.4 12.6#





#37

Benzo(a)pyrene

Concen: 5.132 ng/mL

RT: 23.39 min Scan# 2574

Delta R.T. -0.00 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Instrument :

BNA_N

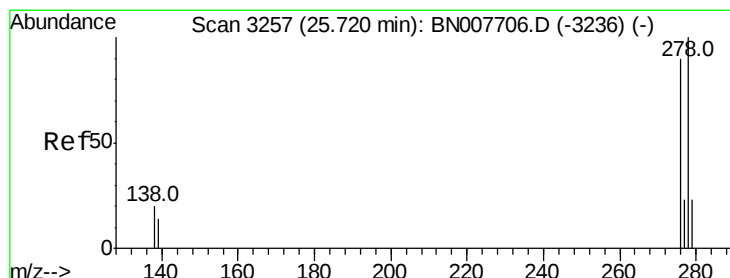
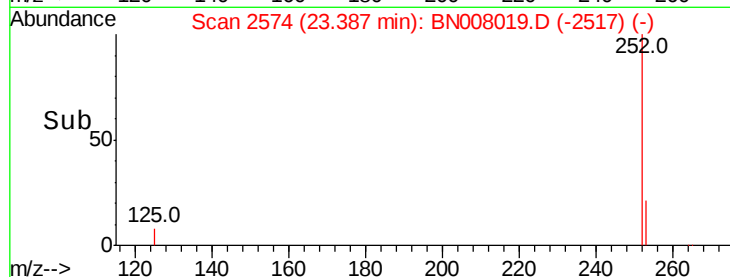
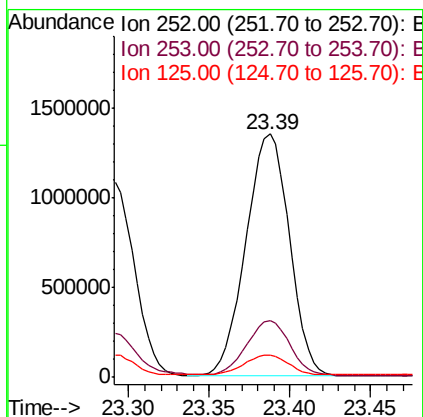
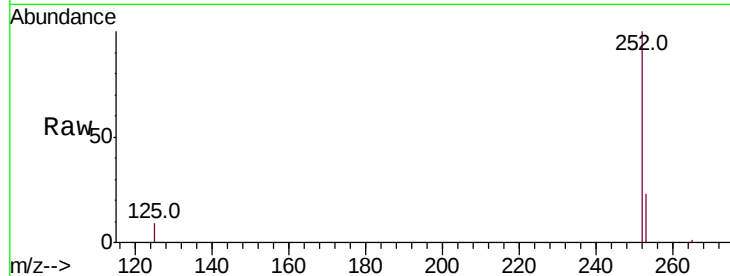
ClientSampleId :

PST-024-SW135-092519RE

Tot Ion:	252	Resp:	2530725
Ion Ratio	Lower	Upper	
252	100		
253	23.1	18.6	27.8
125	9.2	9.4	14.0

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#38

Dibenzo(a,h)anthracene

Concen: 0.918 ng/mL

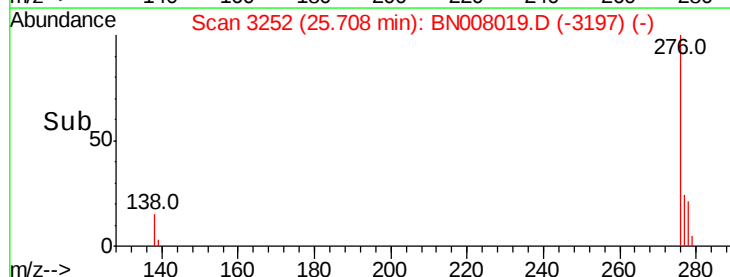
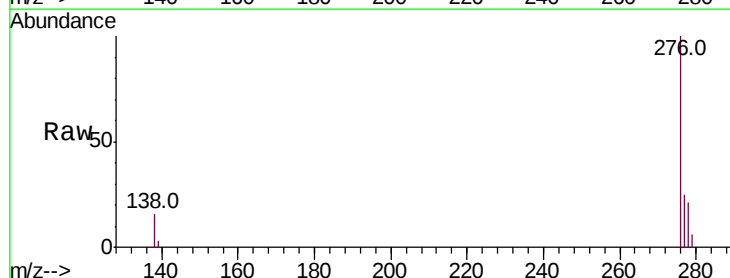
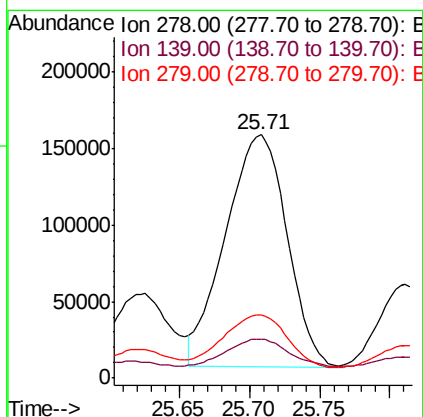
RT: 25.71 min Scan# 3252

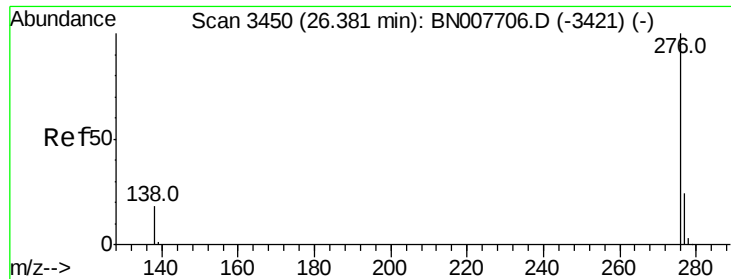
Delta R.T. -0.01 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Tgt Ion:	278	Resp:	463219
Ion Ratio	Lower	Upper	
278	100		
139	16.1	11.8	17.6
279	25.9	19.4	29.2





#39

Benzo(a,h,i)perylene

Concen: 3.922 ng

RT: 26.39 min Scan# 3451

Delta R.T. 0.01 min

Lab File: BN008019.D

Acq: 05 Oct 2019 00:33

Instrument :

BNA_N

ClientSampleId :

PST-024-SW135-092519RE

Tot Ion: 276 Resp: 1958061

Ion Ratio Lower Upper

276 100

277 24.7 19.8 29.8

138 16.8 15.1 22.7

Manual Integrations

APPROVED

mohammad

10/7/2019 8:45:54 AM

