

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100319\
 Data File : BN007991.D
 Acq On : 03 Oct 2019 21:35
 Operator : JU
 Sample : K5077-11
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW075-092519

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:27:23 AM

Quant Time: Oct 04 08:41:12 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	4804	0.40	ng	-0.02
7) Naphthalene-d8	10.46	136	20377	0.40	ng	-0.01
13) Acenaphthene-d10	14.30	164	12982	0.40	ng	-0.02
19) Phenanthrene-d10	17.05	188	28283	0.40	ng	-0.02
27) Chrysene-d12	21.25	240	30125	0.40	ng	-0.02
34) Perylene-d12	23.46	264	32836	0.40	ng	-0.03

System Monitoring Compounds

4) 2-Fluorophenol	5.30	112	5479	0.33	ng	-0.02
5) Phenol-d6	6.86	99	7953	0.39	ng	0.00
8) Nitrobenzene-d5	8.82	82	5799	0.33	ng	-0.01
11) 2-Methylnaphthalene-d10	12.05	152	12230	0.36	ng	-0.02
14) 2,4,6-Tribromophenol	15.81	330	2518	0.36	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	16748	0.31	ng	-0.01
25) Fluoranthene-d10	19.09	212	33517	0.35	ng	-0.02
29) Terphenyl-d14	19.69	244	27371	0.37	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.49	128	24956	0.436	ng	99
12) 2-Methylnaphthalene	12.12	142	13092	0.339	ng	100
16) Acenaphthylene	14.02	152	38859	0.564	ng	99
17) Acenaphthene	14.37	154	25496	0.574	ng	96
18) Fluorene	15.36	166	54610	0.960	ng	96
23) Phenanthrene	17.09	178	889087	10.091	ng	100
24) Anthracene	17.19	178	175131	2.201	ng	# 93
26) Fluoranthene	19.12	202	1145144	10.453	ng	99
28) Pyrene	19.49	202	931806	9.069	ng	# 96
30) Benzo(a)anthracene	21.24	228	551488	4.971	ng	98
31) Chrysene	21.28	228	486062	4.496	ng	98
32) Bis(2-ethylhexyl)phthalate	21.17	149	8817	0.155	ng	98
33) Indeno(1,2,3-cd)pyrene	25.67	276	264921	1.957	ng	96
35) Benzo(b)fluoranthene	22.81	252	606512	5.320	ng	100
36) Benzo(k)fluoranthene	22.84	252	241418m	2.142	ng	
37) Benzo(a)pyrene	23.37	252	400144	3.735	ng	98
38) Dibenzo(a,h)anthracene	25.68	278	75434	0.688	ng	95
39) Benzo(a,h,i)perylene	26.34	276	238654	2.200	ng	99

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

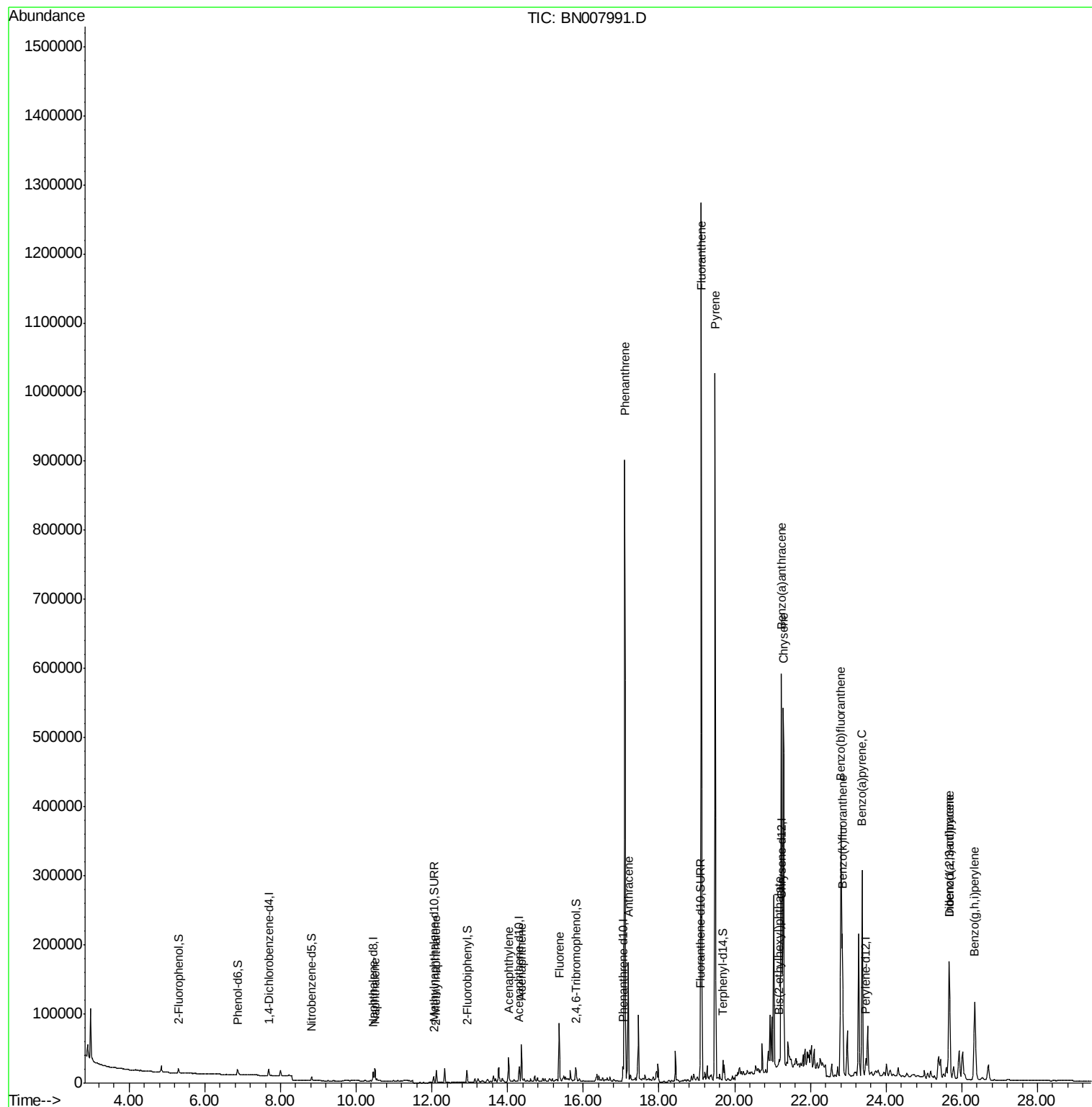
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100319\
Data File : BN007991.D
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M
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#1

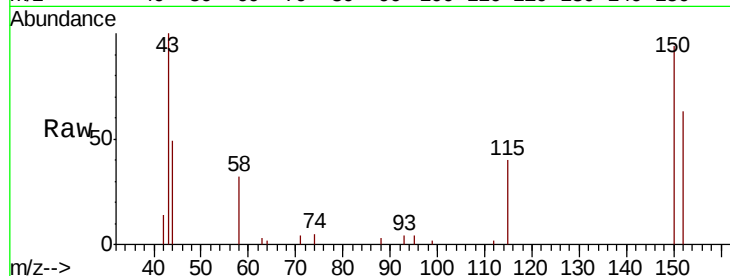
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 603
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW075-092519

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.8	125.6	188.4
115	63.6	53.3	79.9

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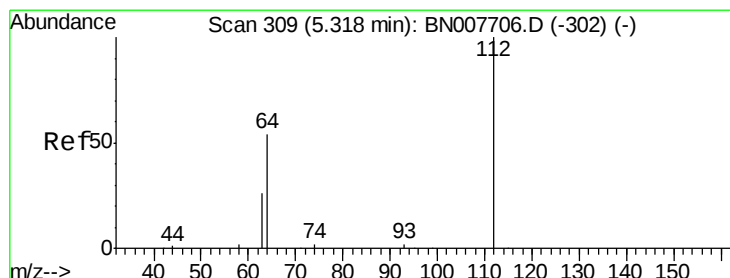
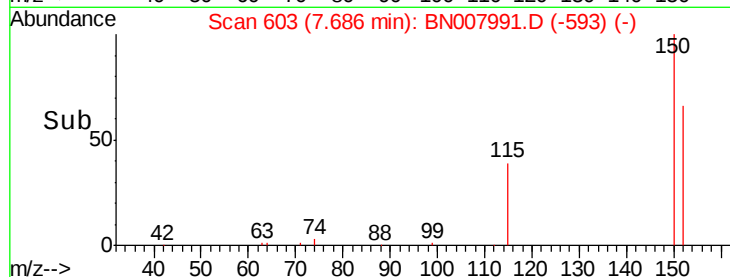
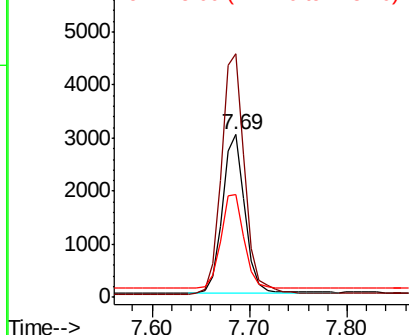


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

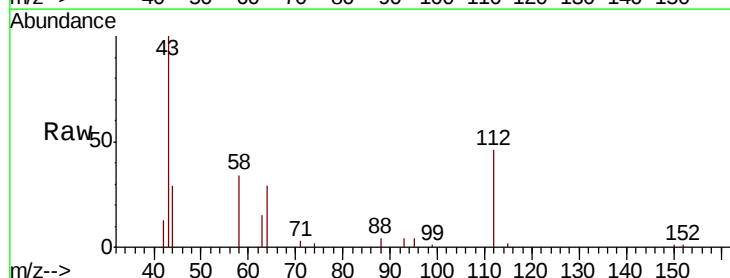
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.331 ng
RT: 5.30 min Scan# 307
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.3	46.6	70.0
63	29.1	23.1	34.7

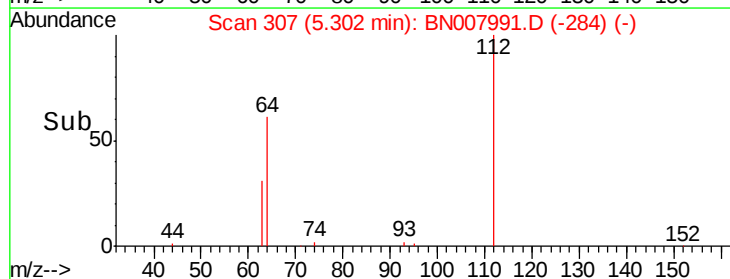
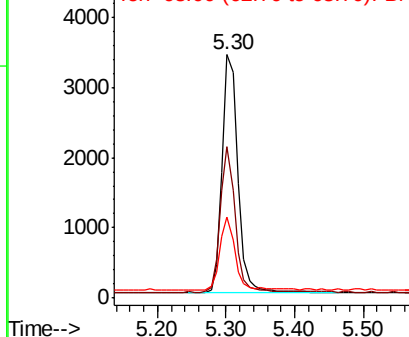


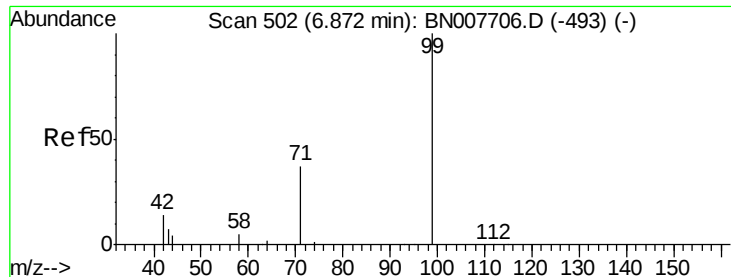
Abundance

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

Phenol-d6

Concen: 0.386 ng

RT: 6.86 min Scan# 501

Delta R.T. -0.01 min

Lab File: BN007991.D

Acq: 03 Oct 2019 21:35

Instrument :

BNA_N

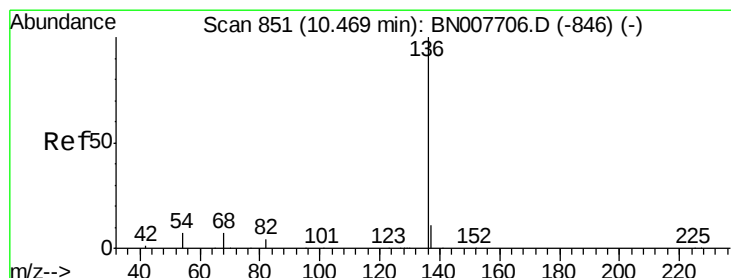
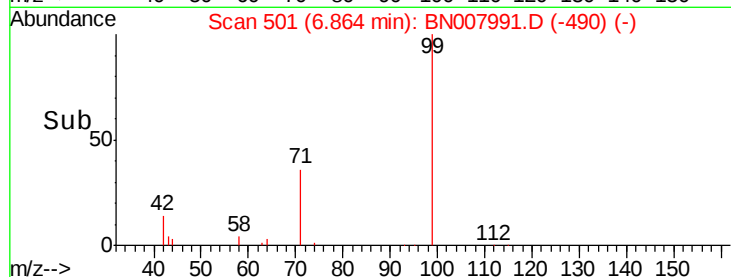
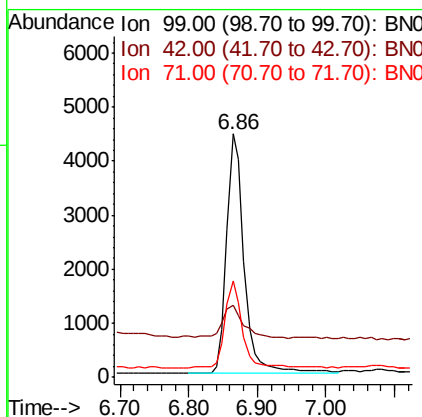
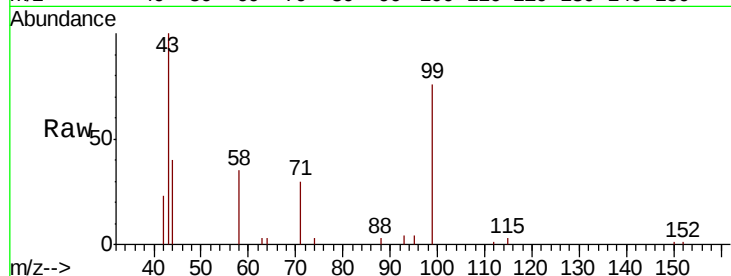
ClientSampleId :

EXT-024-SW075-092519

Tot Ion:	99	Resp:	7953
Ion	Ratio	Lower	Upper
99	100		
42	16.3	12.8	19.2
71	36.7	27.6	41.4

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#7

Naphthalene-d8

Concen: 0.400 ng

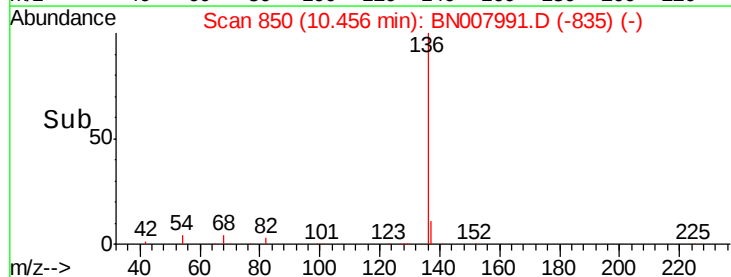
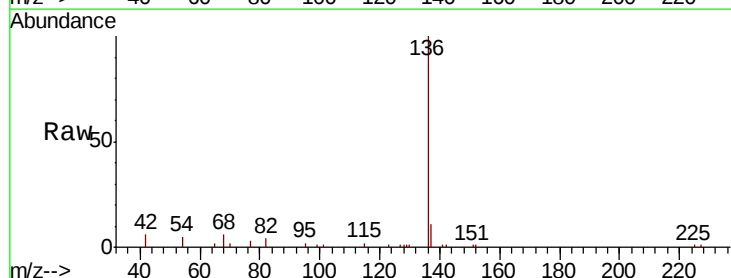
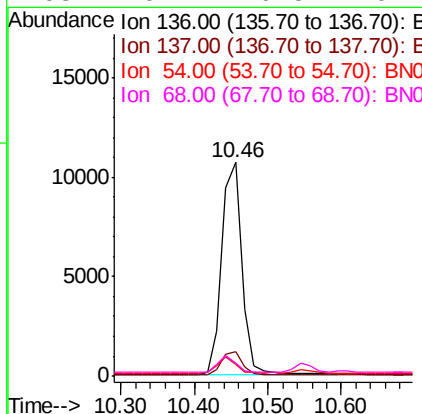
RT: 10.46 min Scan# 850

Delta R.T. -0.01 min

Lab File: BN007991.D

Acq: 03 Oct 2019 21:35

Tgt Ion:	136	Resp:	20377
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	5.1	5.8	8.8#
68	6.1	6.5	9.7#





#8

Nitrobenzene-d5

Concen: 0.325 ng

RT: 8.82 min Scan# 721

Delta R.T. -0.01 min

Lab File: BN007991.D

Acq: 03 Oct 2019 21:35

Instrument :

BNA_N

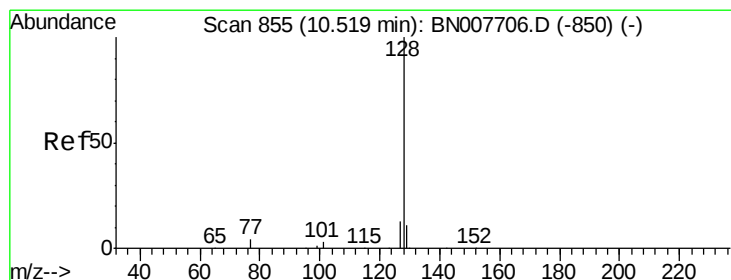
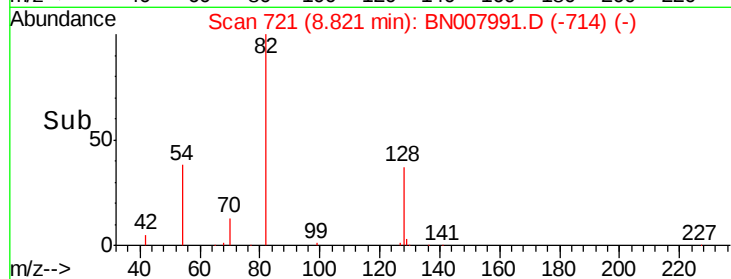
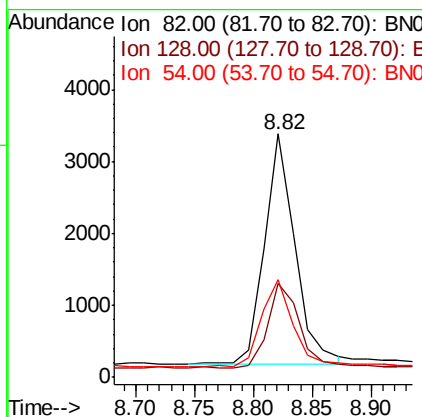
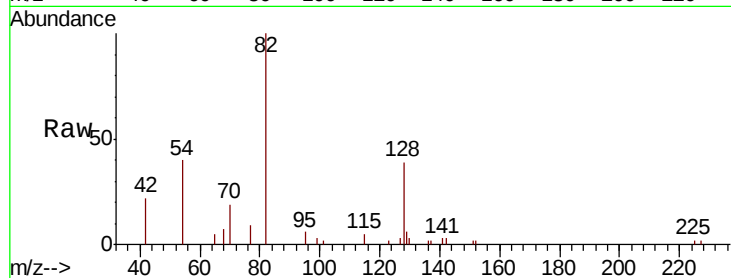
ClientSampleId :

EXT-024-SW075-092519

Tot Ion:	82	Resp:	5799
Ion Ratio	Lower	Upper	
82	100		
128	38.7	24.5	36.7#
54	40.1	35.2	52.8

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#9

Naphthalene

Concen: 0.436 ng

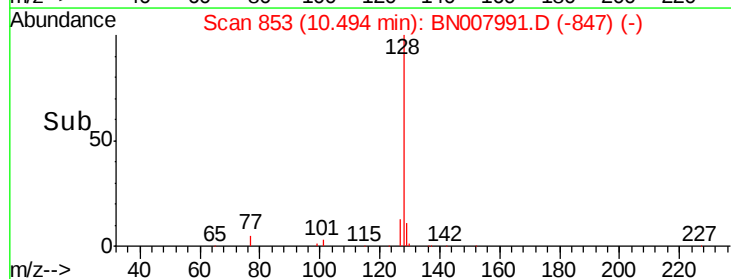
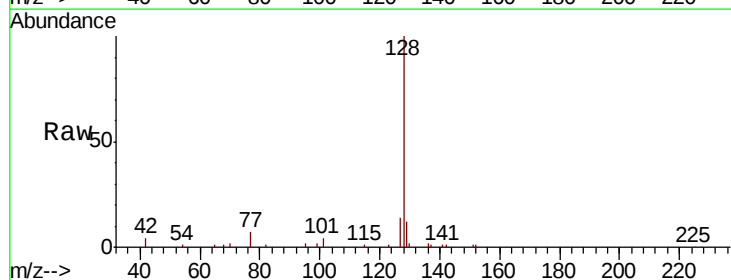
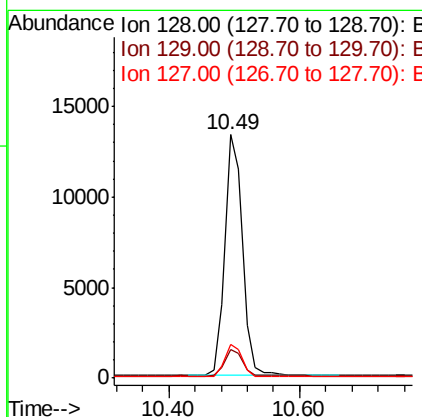
RT: 10.49 min Scan# 853

Delta R.T. -0.03 min

Lab File: BN007991.D

Acq: 03 Oct 2019 21:35

Tgt Ion:	128	Resp:	24956
Ion Ratio	Lower	Upper	
128	100		
129	11.8	9.1	13.7
127	13.9	10.6	15.8





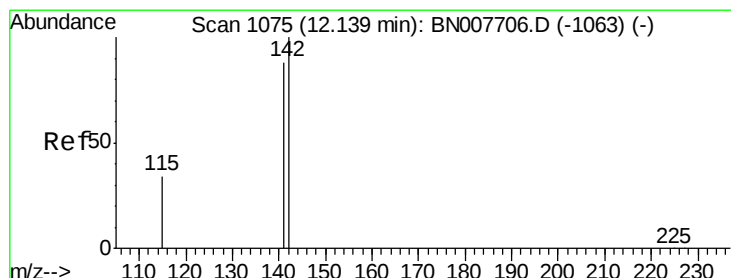
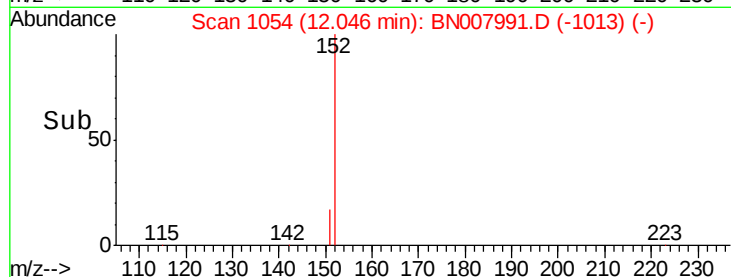
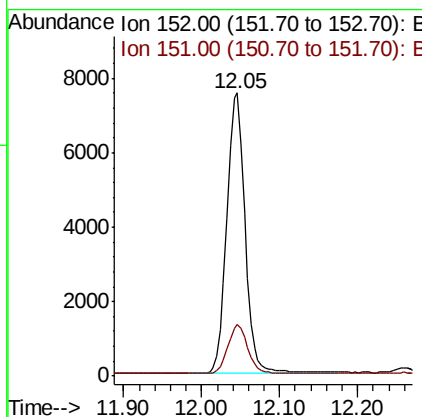
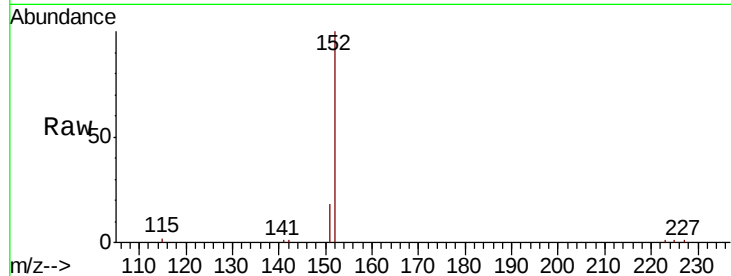
#11
 2-Methylnaphthalene-d10
 Concen: 0.356 ng
 RT: 12.05 min Scan# 1054
 Delta R.T. -0.02 min
 Lab File: BN007991.D
 Acq: 03 Oct 2019 21:35

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW075-092519

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.4	23.2

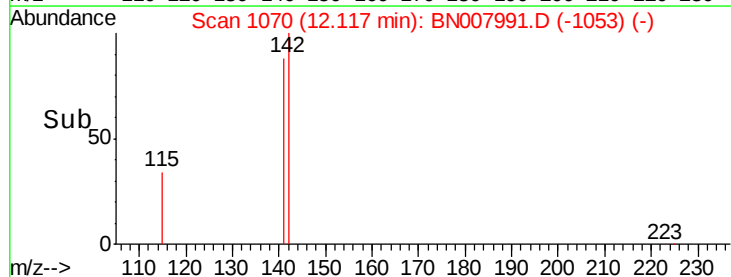
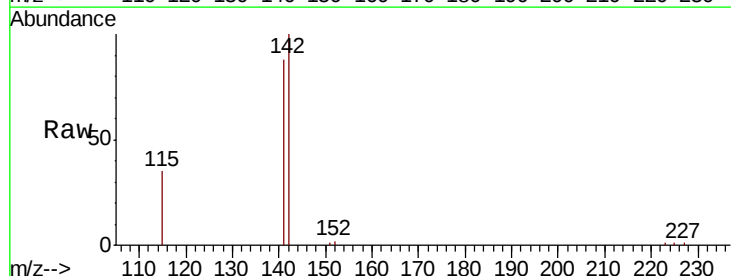
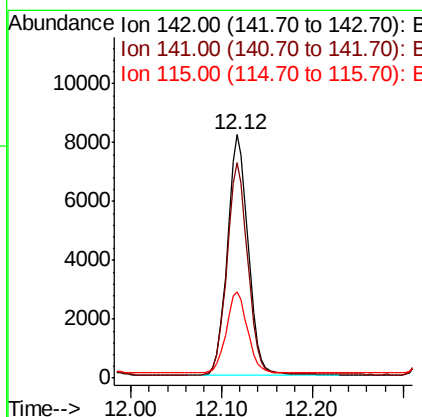
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#12
 2-Methylnaphthalene
 Concen: 0.339 ng
 RT: 12.12 min Scan# 1070
 Delta R.T. -0.02 min
 Lab File: BN007991.D
 Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.6	106.0
115	35.4	28.3	42.5





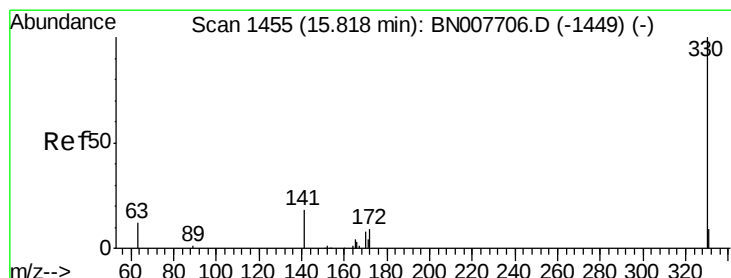
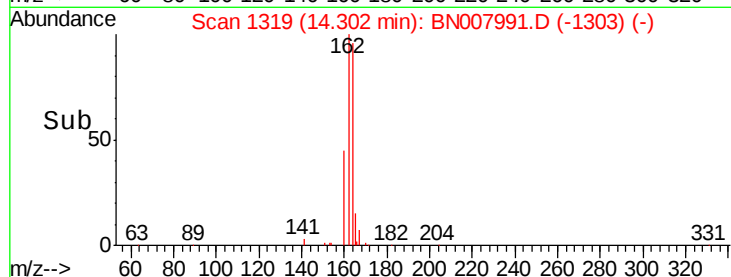
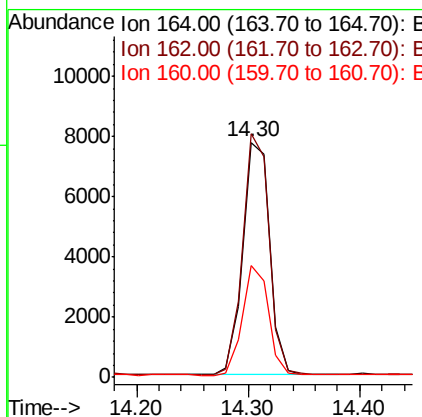
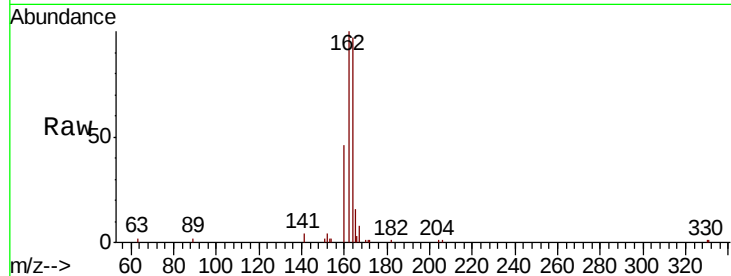
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.30 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW075-092519

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.6	81.7	122.5
160	47.4	37.0	55.4

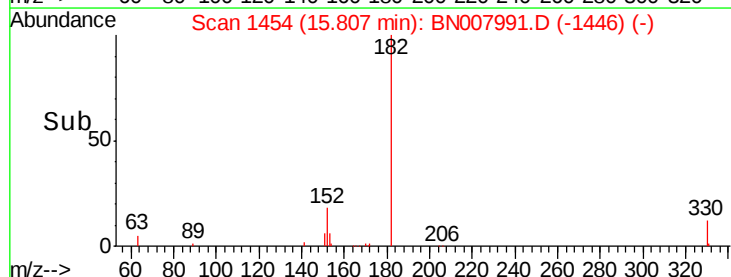
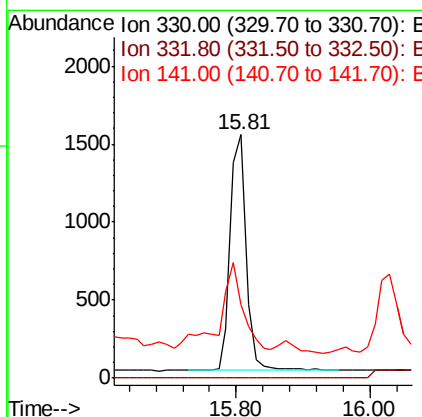
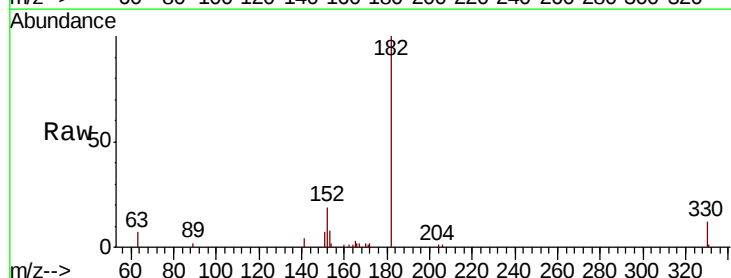
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#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	50.3	28.7	43.1#





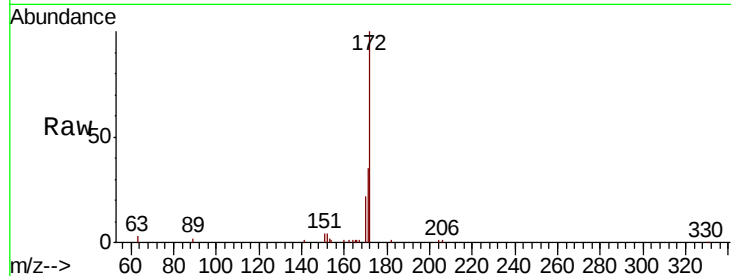
#15
2-Fluorobiphenyl
Concen: 0.313 ng
RT: 12.93 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW075-092519

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.8	43.2
170	22.4	19.5	29.3

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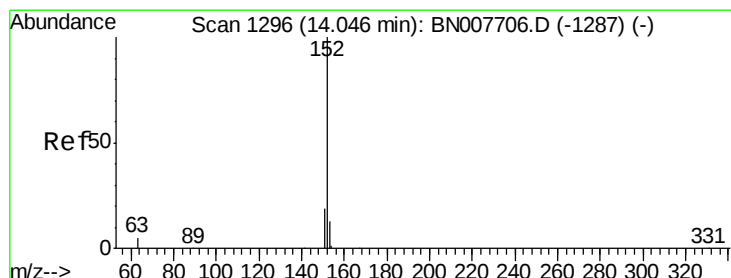
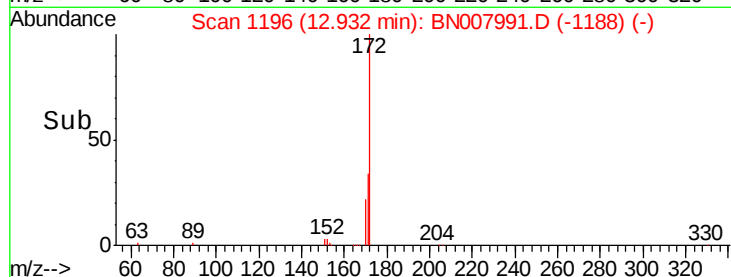
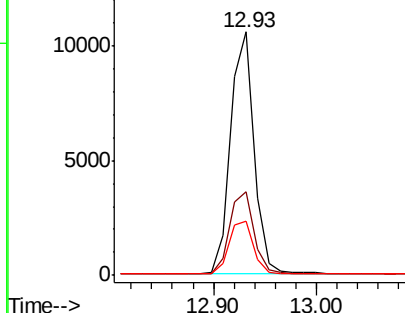


Abundance

Ion 172.00 (171.70 to 172.70): E

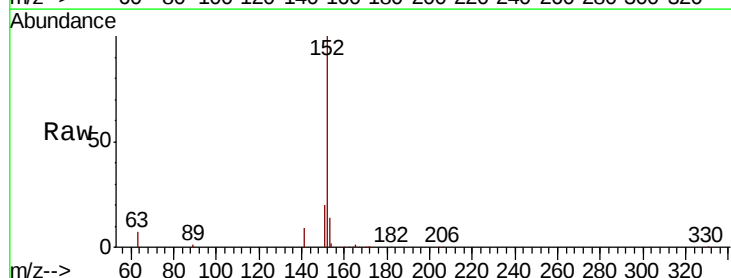
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 0.564 ng
RT: 14.02 min Scan# 1294
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.5	23.3
153	14.1	10.4	15.6

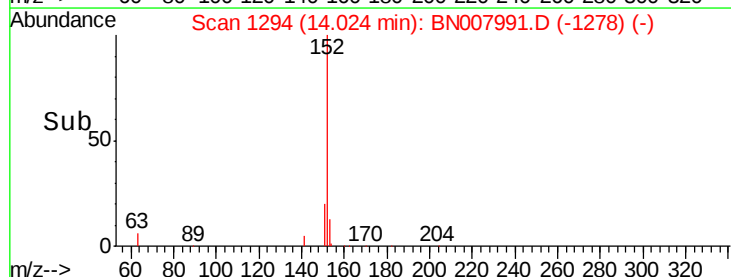
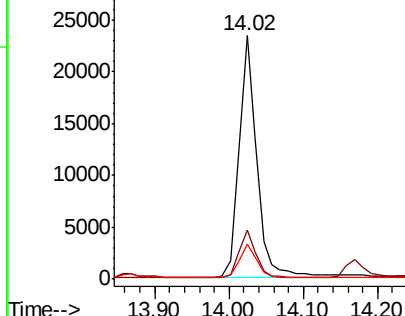


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





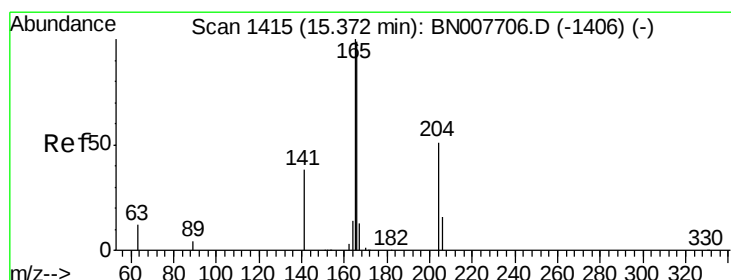
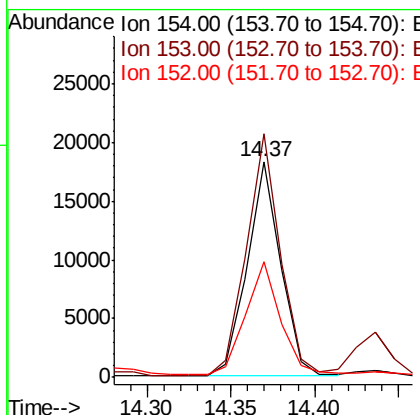
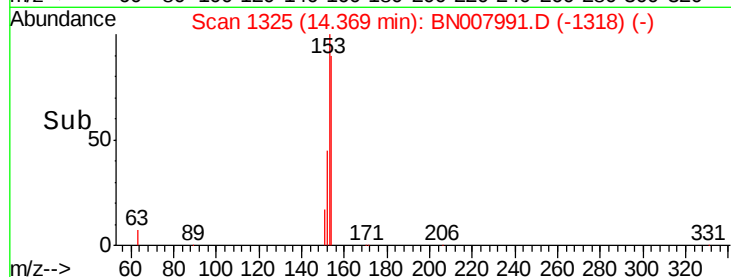
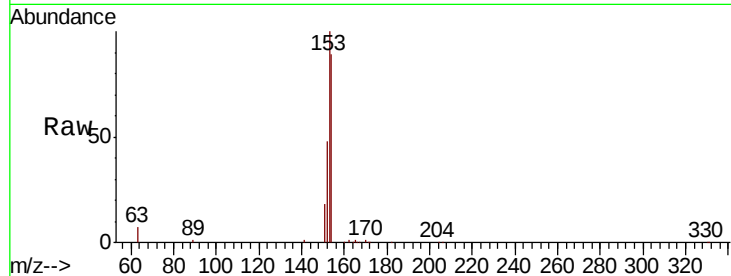
#17
Acenaphthene
Concen: 0.574 ng
RT: 14.37 min Scan# 1325
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW075-092519

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.4	87.0	130.4
152	54.5	42.7	64.1

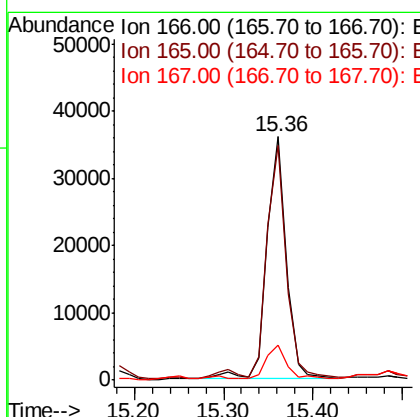
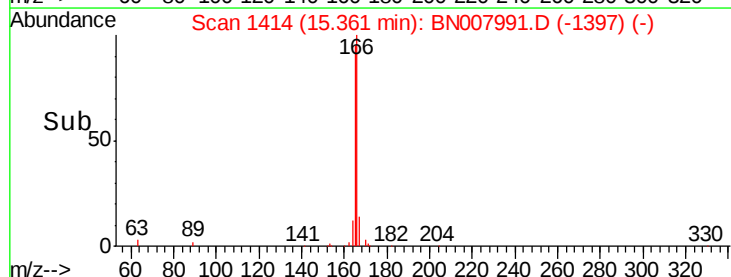
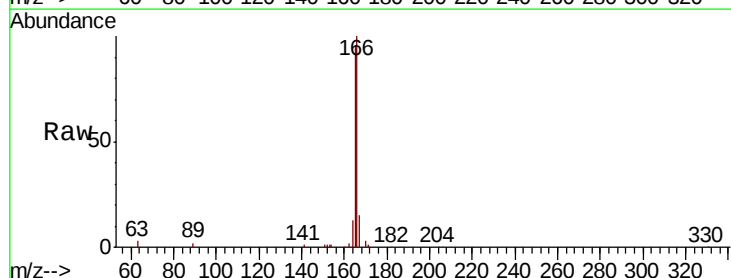
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#18
Fluorene
Concen: 0.960 ng
RT: 15.36 min Scan# 1414
Delta R.T. -0.01 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
166	100		
165	93.7	78.0	117.0
167	14.8	10.9	16.3





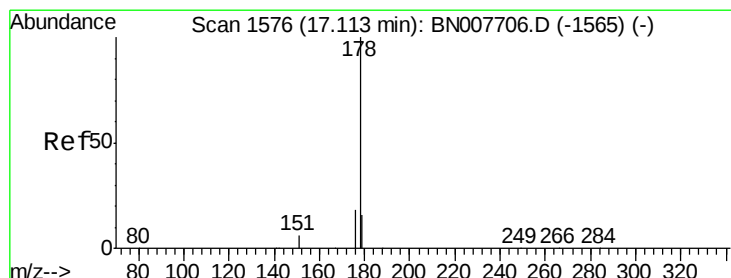
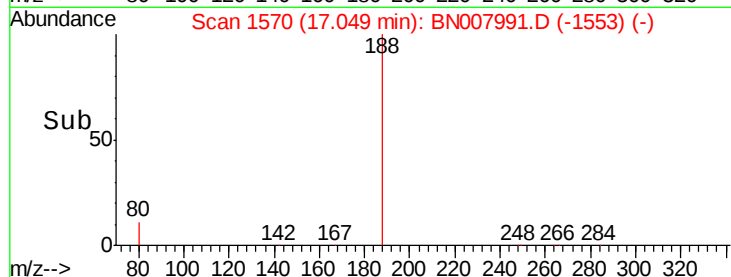
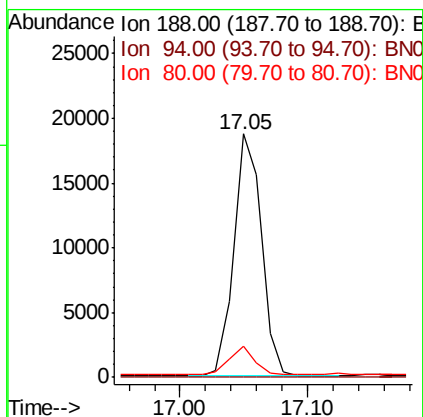
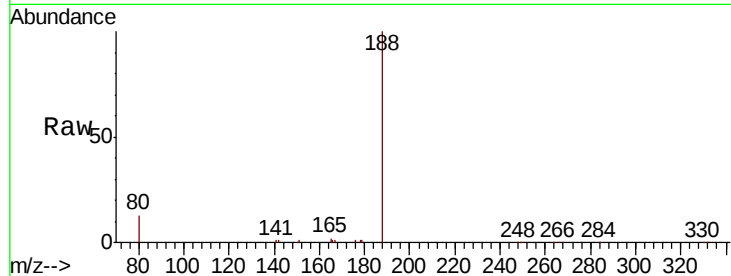
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW075-092519

Tot Ion	Ratio	Resp	Lower	Upper
188	100	28283		
94	0.0	0.0	0.0	0.0
80	12.7	7.4	11.2	

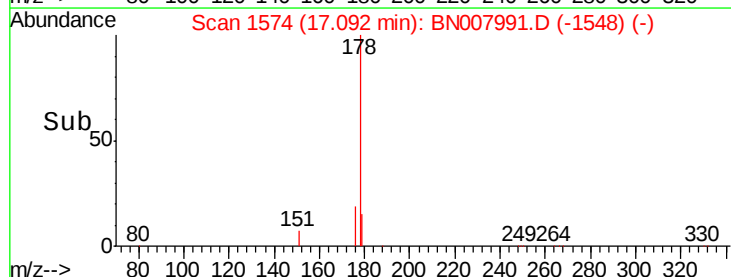
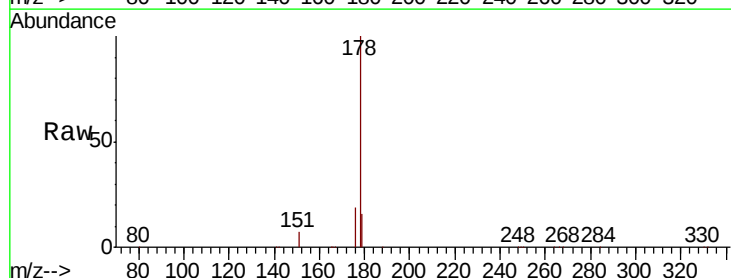
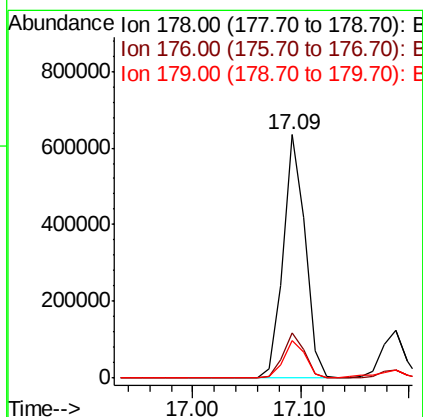
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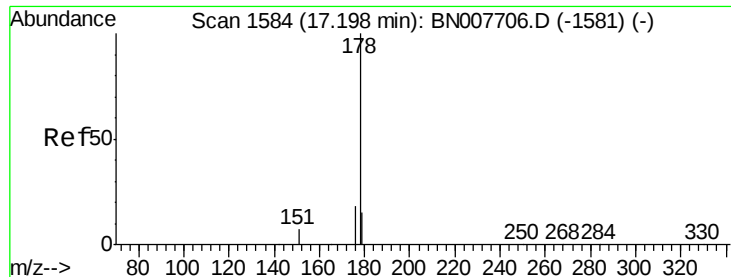
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#23
Phenanthrene
Concen: 10.091 ng
RT: 17.09 min Scan# 1574
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	889087		
176	18.5	14.9	22.3	
179	15.6	12.5	18.7	





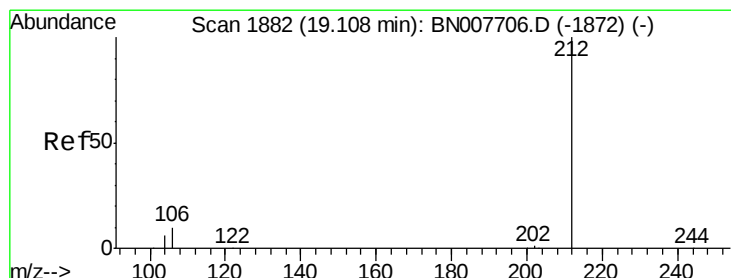
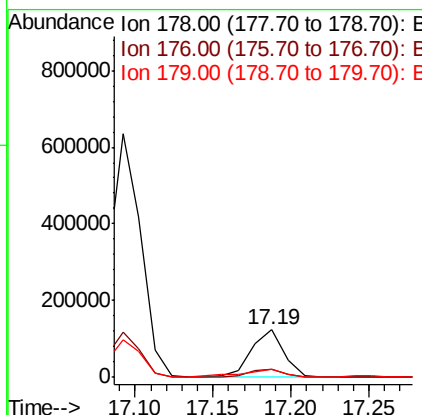
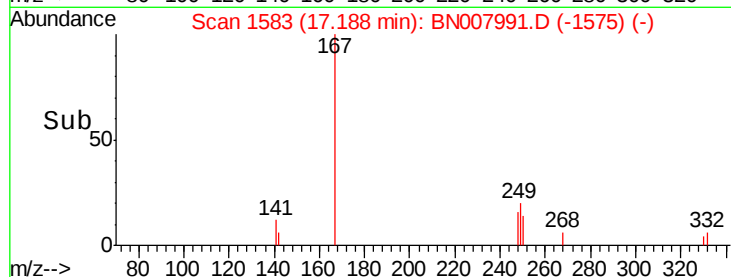
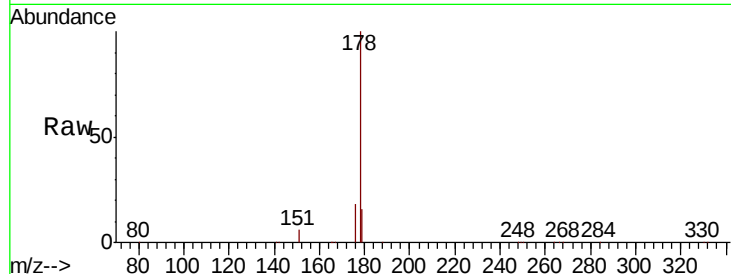
#24
 Anthracene
 Concen: 2.201 ng
 RT: 17.19 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BN007991.D
 Acq: 03 Oct 2019 21:35

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW075-092519

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.6	21.8
179	21.3	12.2	18.4

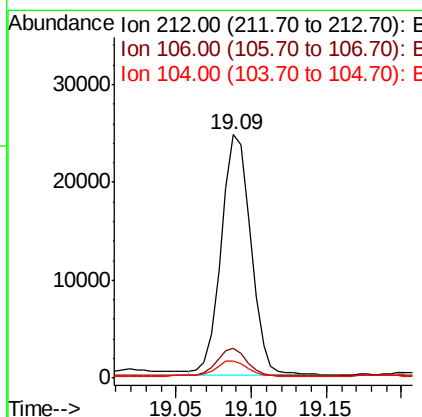
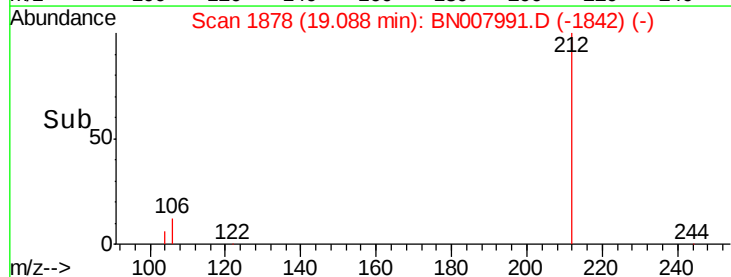
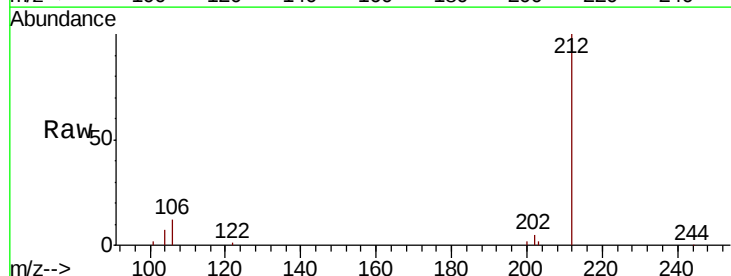
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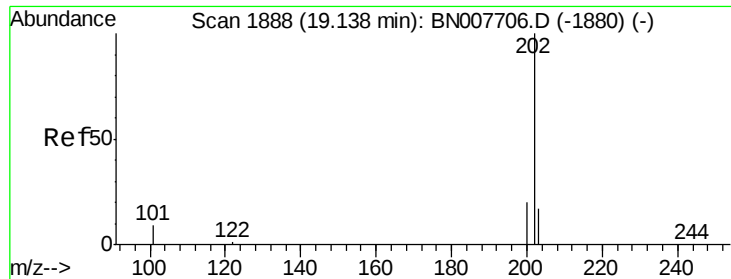
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#25
 Fluoranthene-d10
 Concen: 0.352 ng
 RT: 19.09 min Scan# 1878
 Delta R.T. -0.02 min
 Lab File: BN007991.D
 Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.4	14.0
104	6.7	5.3	7.9





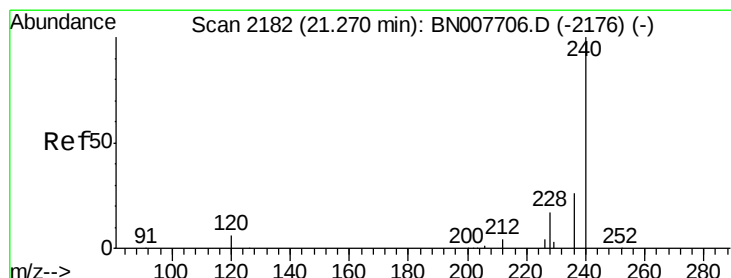
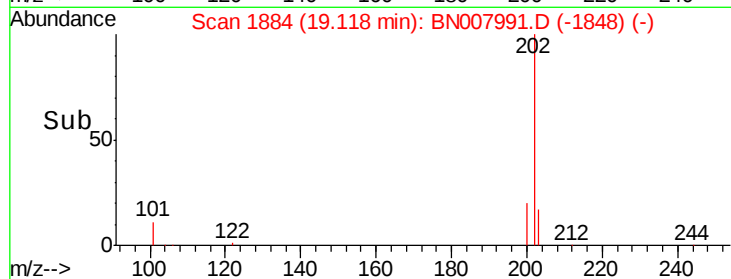
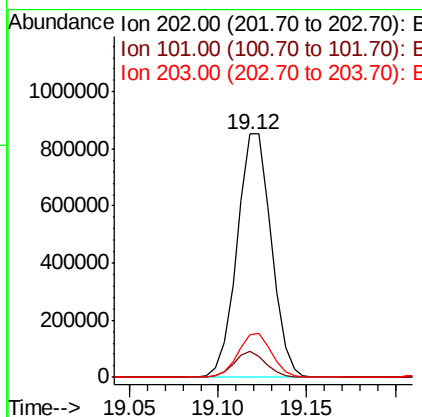
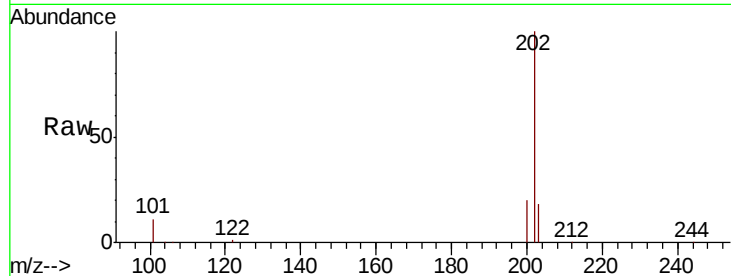
#26
 Fluoranthene
 Concen: 10.453 ng
 RT: 19.12 min Scan# 1884
 Delta R.T. -0.02 min
 Lab File: BN007991.D
 Acq: 03 Oct 2019 21:35

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW075-092519

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.2	8.4	12.6
203	17.7	13.8	20.8

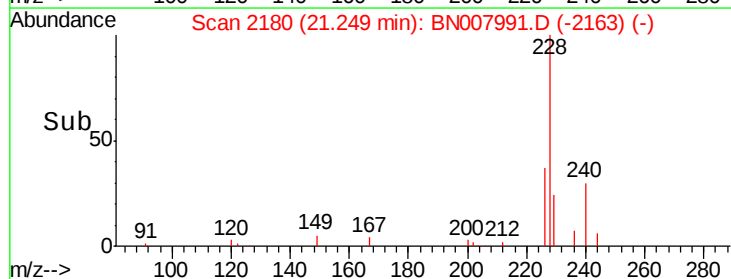
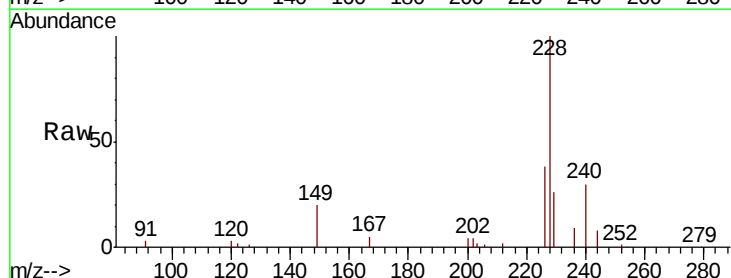
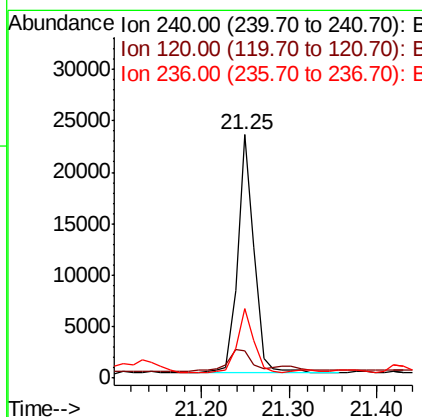
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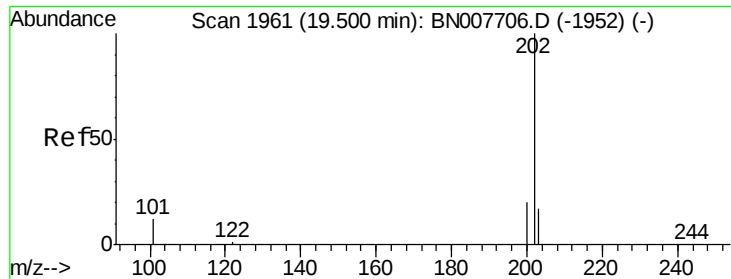
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#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.25 min Scan# 2180
 Delta R.T. -0.02 min
 Lab File: BN007991.D
 Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.0	5.4	8.2#
236	28.3	21.0	31.4





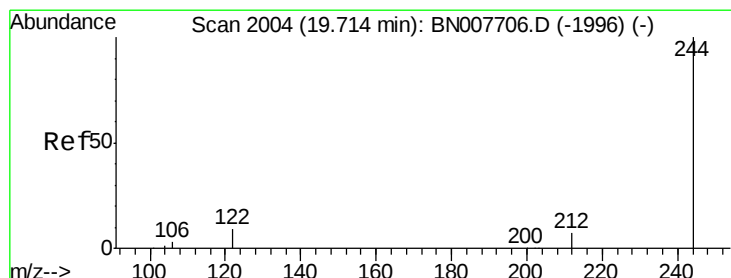
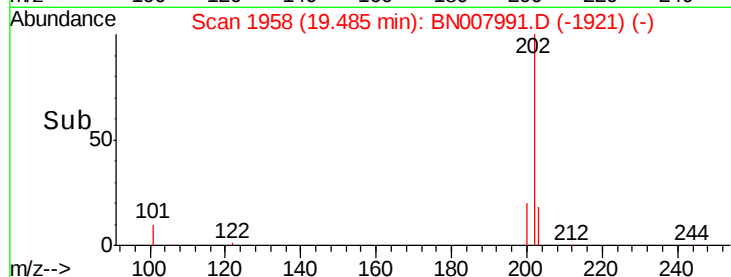
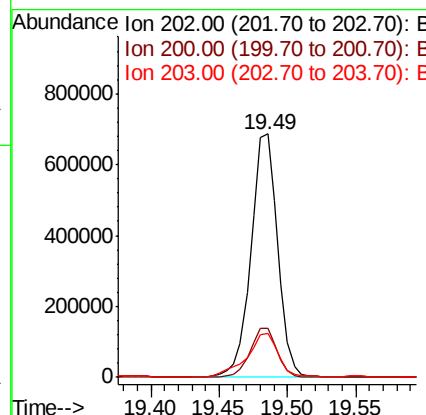
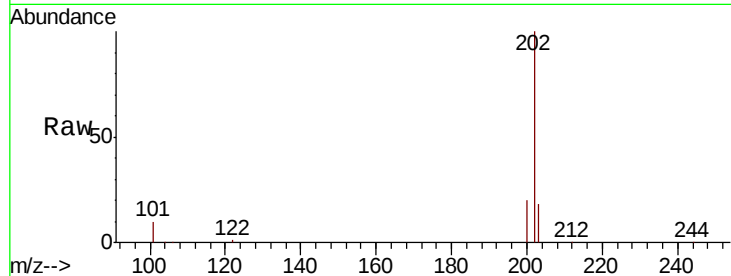
#28
Pvrene
Concen: 9.069 ng
RT: 19.49 min Scan# 1958
Delta R.T. -0.01 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW075-092519

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.5	16.4	24.6
203	21.4	14.1	21.1

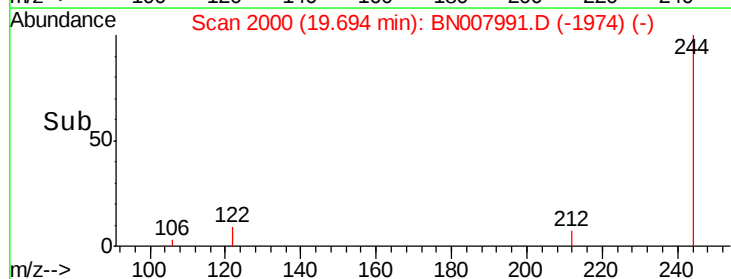
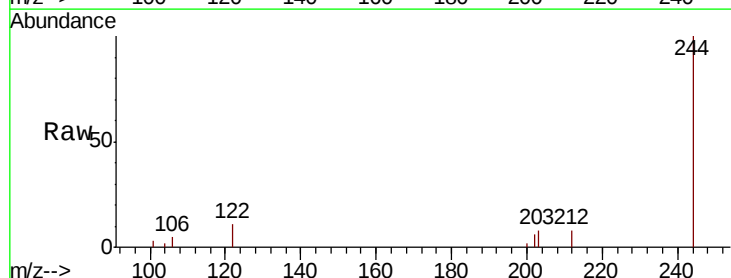
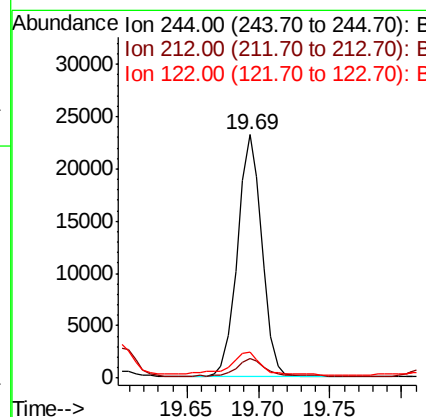
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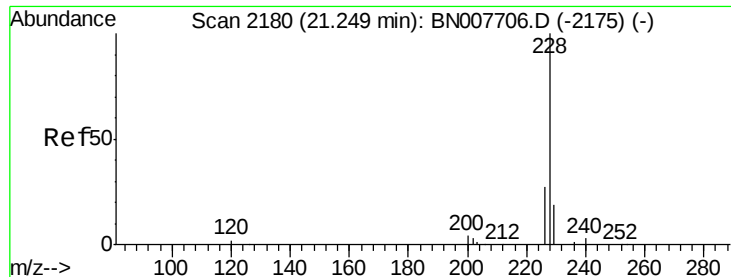
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#29
Terphenyl-d14
Concen: 0.370 ng
RT: 19.69 min Scan# 2000
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.9	5.9	8.9
122	10.5	7.4	11.2





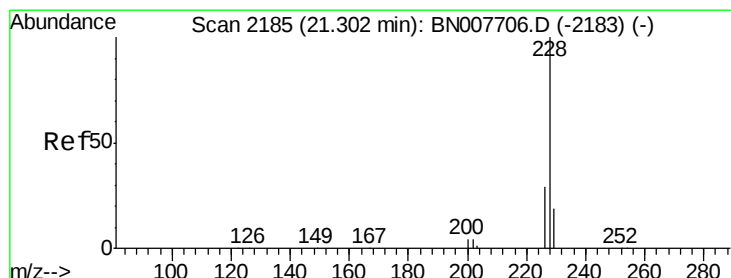
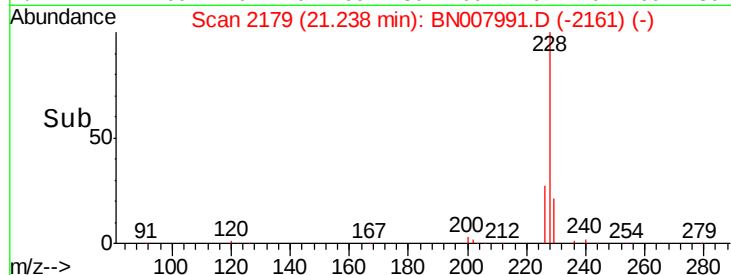
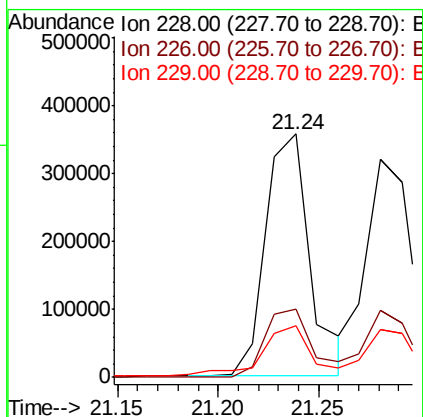
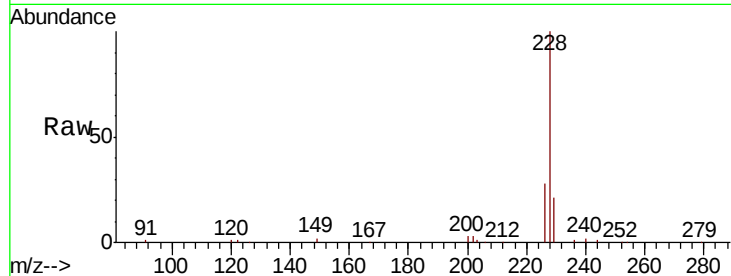
#30
Benzo(a)anthracene
Concen: 4.971 ng
RT: 21.24 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW075-092519

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.1	33.1
229	21.4	15.8	23.6

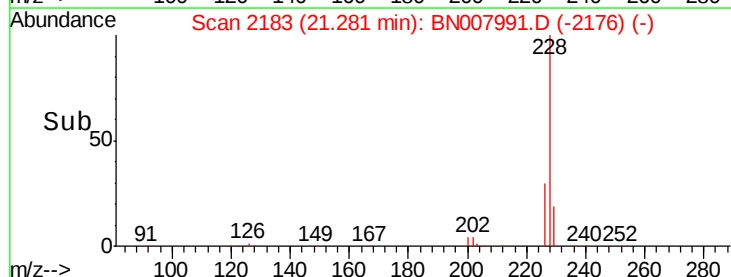
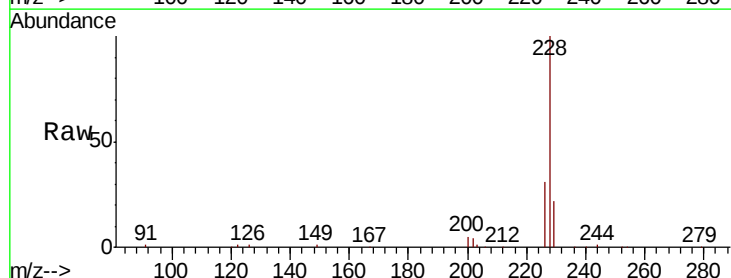
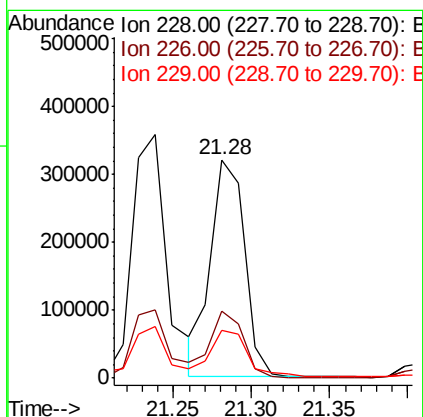
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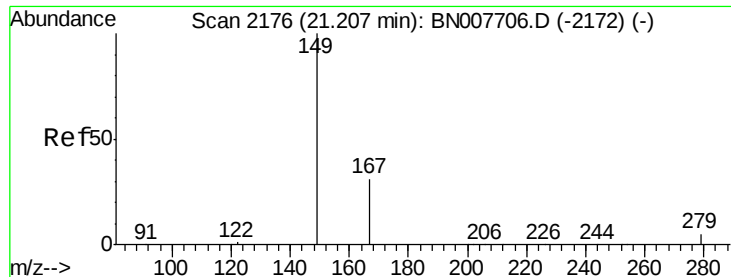
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#31
Chrysene
Concen: 4.496 ng
RT: 21.28 min Scan# 2183
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.9	35.9
229	21.7	15.8	23.6





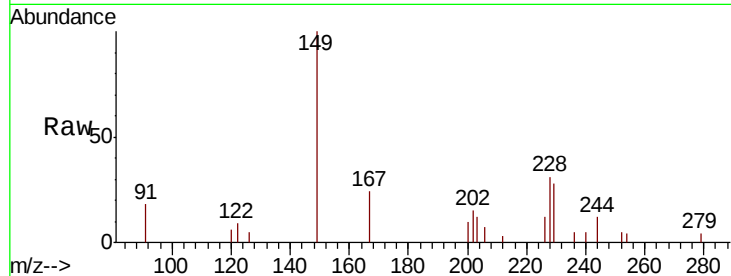
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.155 ng
 RT: 21.17 min Scan# 2173
 Delta R.T. -0.03 min
 Lab File: BN007991.D
 Acq: 03 Oct 2019 21:35

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW075-092519

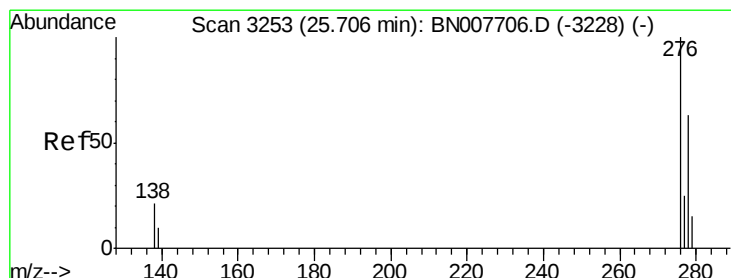
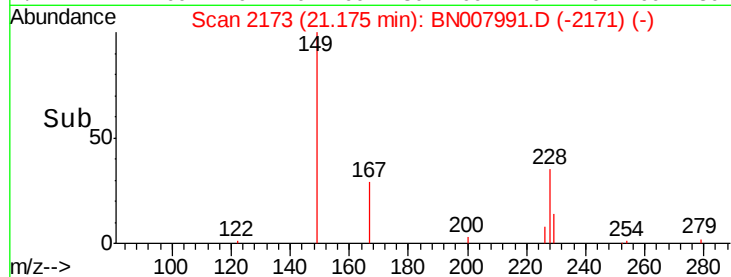
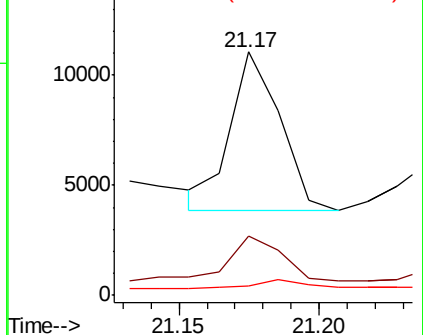
Tot Ion	Ratio	Lower	Upper
149	100		
167	28.1	23.7	35.5
279	5.1	4.2	6.2

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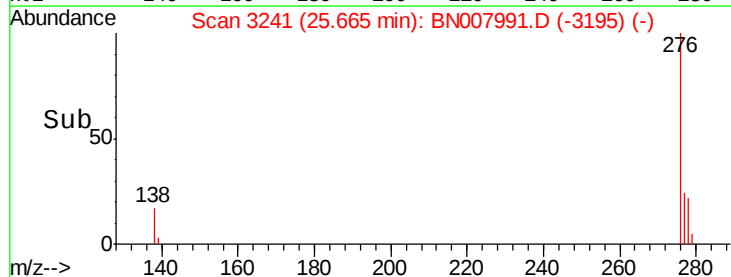
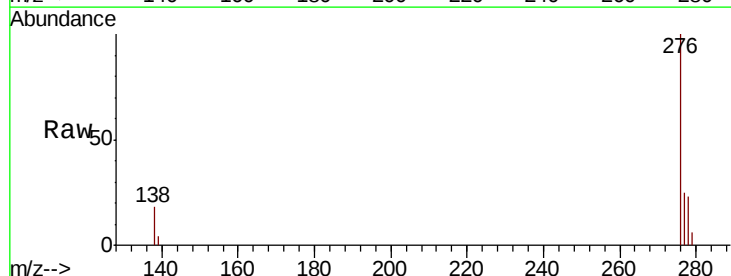
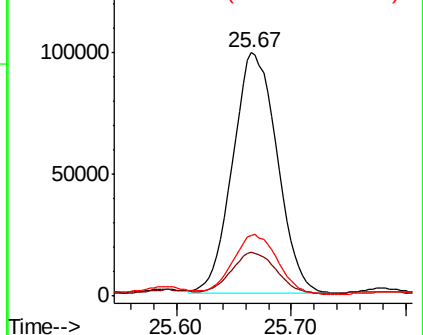
Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

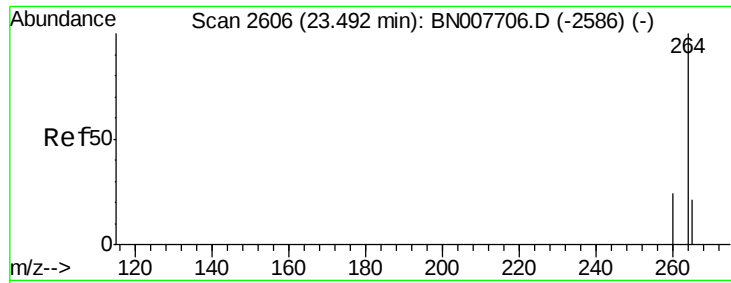


#33
 Indeno(1,2,3-cd)pyrene
 Concen: 1.957 ng
 RT: 25.67 min Scan# 3241
 Delta R.T. -0.04 min
 Lab File: BN007991.D
 Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.4	17.1	25.7
277	24.9	20.0	30.0

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





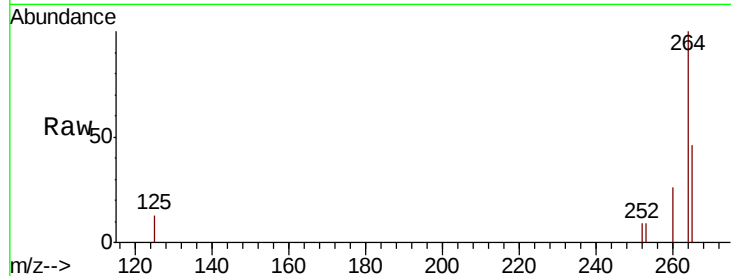
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.46 min Scan# 2598
Delta R.T. -0.03 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW075-092519

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.8	19.3	28.9
265	46.2	26.9	40.3

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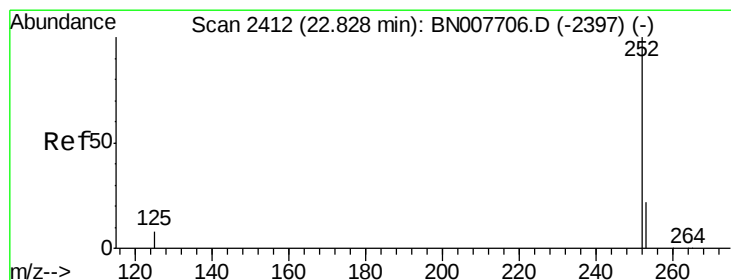
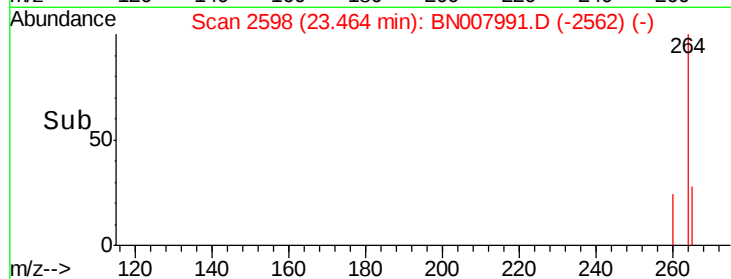
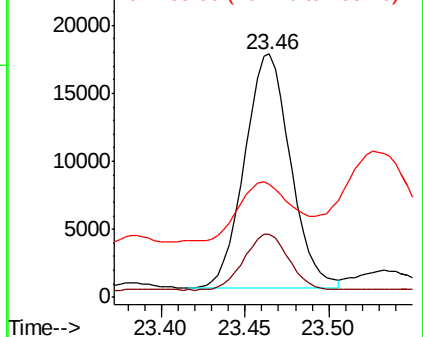


Abundance

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: 5.320 ng
RT: 22.81 min Scan# 2406
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

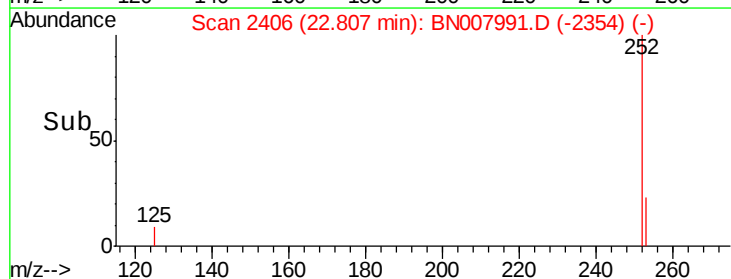
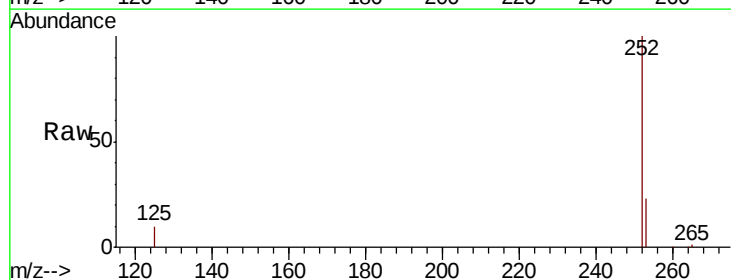
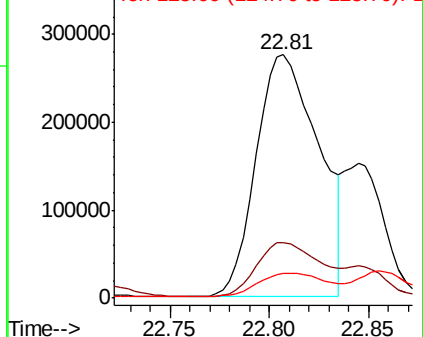
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.3	27.5
125	10.1	8.2	12.4

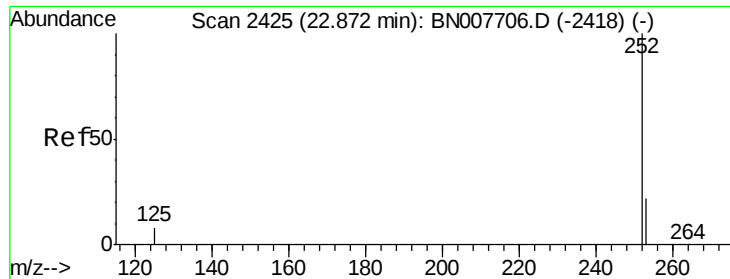
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





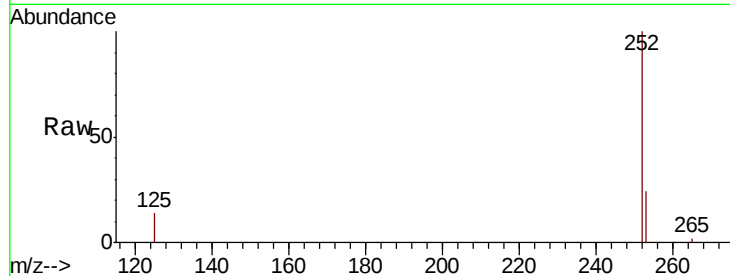
#36
Benzo(k)fluoranthene
Concen: 2.142 ng m
RT: 22.84 min Scan# 2417
Delta R.T. -0.03 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW075-092519

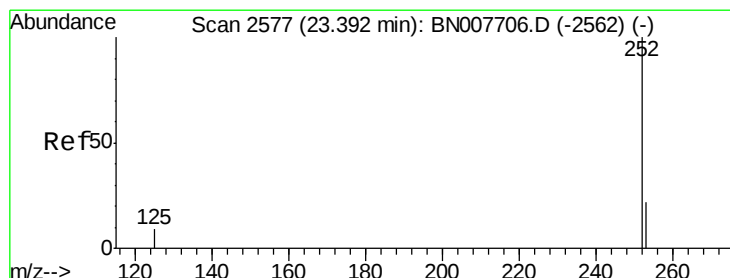
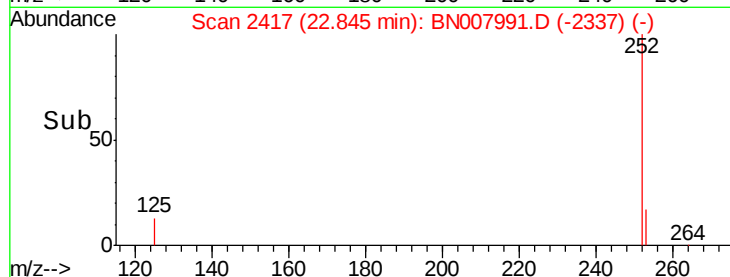
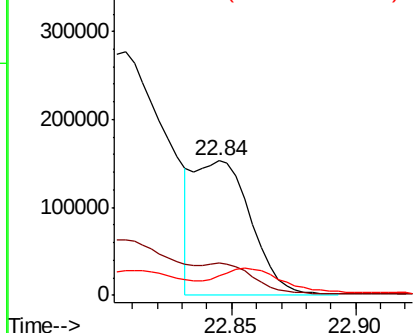
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.5	27.7
125	14.2	8.4	12.6

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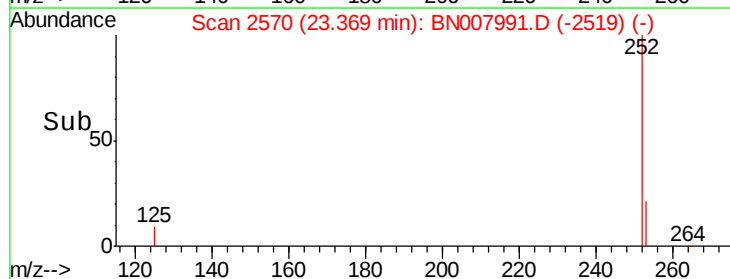
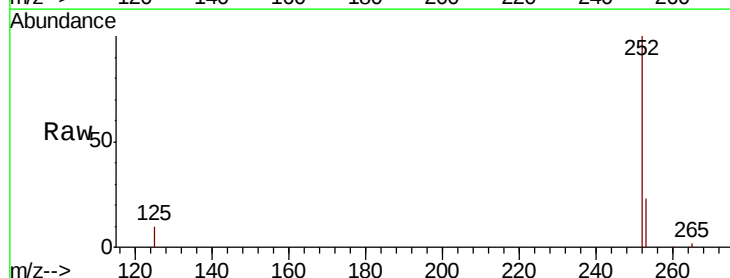
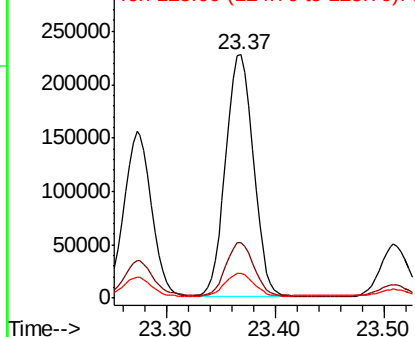
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

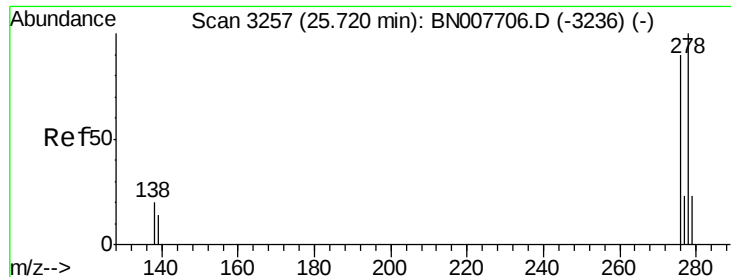


#37
Benzo(a)pyrene
Concen: 3.735 ng
RT: 23.37 min Scan# 2570
Delta R.T. -0.02 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.6	27.8
125	10.2	9.4	14.0

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





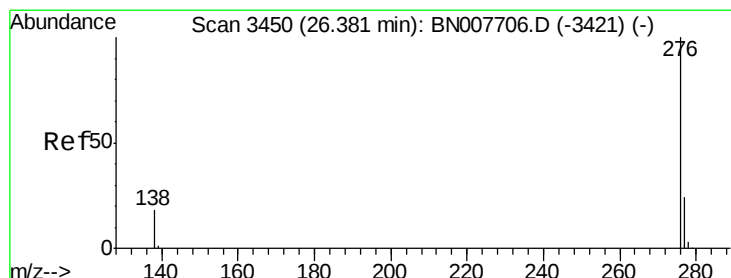
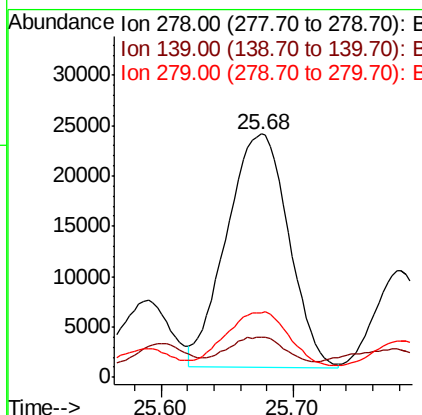
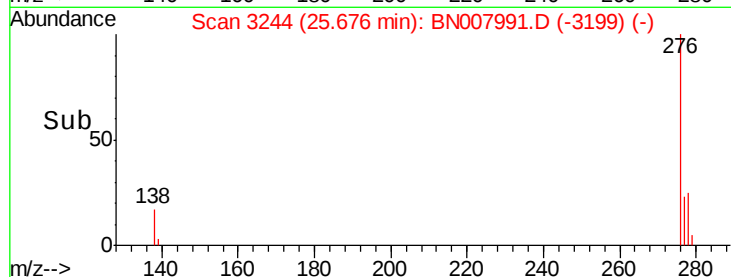
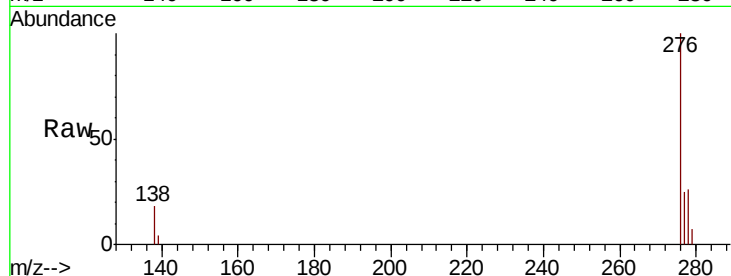
#38
Dibenzo(a,h)anthracene
Concen: 0.688 ng
RT: 25.68 min Scan# 3244
Delta R.T. -0.04 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW075-092519

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.6	11.8	17.6
279	26.7	19.4	29.2

Manual Integrations
APPROVED

mohammad
10/7/2019 8:27:23 AM



#39
Benzo(g,h,i)perylene
Concen: 2.200 ng
RT: 26.34 min Scan# 3439
Delta R.T. -0.04 min
Lab File: BN007991.D
Acq: 03 Oct 2019 21:35

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.8	29.8
138	18.0	15.1	22.7

