

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100319\
 Data File : BN007990.D
 Acq On : 03 Oct 2019 20:59
 Operator : JU
 Sample : K5077-10
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B280-092519

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:27:19 AM

Quant Time: Oct 04 08:40:03 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	4989	0.40	ng	-0.02
7) Naphthalene-d8	10.46	136	20732	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	13230	0.40	ng	-0.02
19) Phenanthrene-d10	17.06	188	28538	0.40	ng	-0.01
27) Chrysene-d12	21.25	240	29981	0.40	ng	-0.02
34) Perylene-d12	23.46	264	32939	0.40	ng	-0.03

System Monitoring Compounds

4) 2-Fluorophenol	5.30	112	5588	0.33	ng	-0.02
5) Phenol-d6	6.86	99	7922	0.37	ng	0.00
8) Nitrobenzene-d5	8.82	82	5890	0.32	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	12410	0.36	ng	-0.02
14) 2,4,6-Tribromophenol	15.80	330	2475	0.34	ng	-0.02
15) 2-Fluorobiphenyl	12.93	172	16973	0.31	ng	-0.02
25) Fluoranthene-d10	19.09	212	34501	0.36	ng	-0.02
29) Terphenyl-d14	19.69	244	26783	0.36	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.49	128	5899	0.101	ng	# 94
12) 2-Methylnaphthalene	12.12	142	7514	0.191	ng	99
16) Acenaphthylene	14.02	152	46506	0.663	ng	99
17) Acenaphthene	14.36	154	3206	0.071	ng	89
18) Fluorene	15.36	166	12869	0.222	ng	# 84
23) Phenanthrene	17.10	178	193408	2.176	ng	100
24) Anthracene	17.18	178	29110	0.363	ng	100
26) Fluoranthene	19.12	202	254534	2.303	ng	99
28) Pyrene	19.48	202	320726	3.137	ng	97
30) Benzo(a)anthracene	21.23	228	129834	1.176	ng	95
31) Chrysene	21.28	228	180993	1.682	ng	98
32) Bis(2-ethylhexyl)phthalate	21.18	149	21390	0.377	ng	98
33) Indeno(1,2,3-cd)pyrene	25.67	276	98742	0.733	ng	# 95
35) Benzo(b)fluoranthene	22.81	252	195277	1.708	ng	98
36) Benzo(k)fluoranthene	22.84	252	54056m	0.478	ng	
37) Benzo(a)pyrene	23.37	252	131259	1.221	ng	99
38) Dibenzo(a,h)anthracene	25.67	278	25766	0.234	ng	# 83
39) Benzo(a,h,i)perylene	26.34	276	107103	0.984	ng	100

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

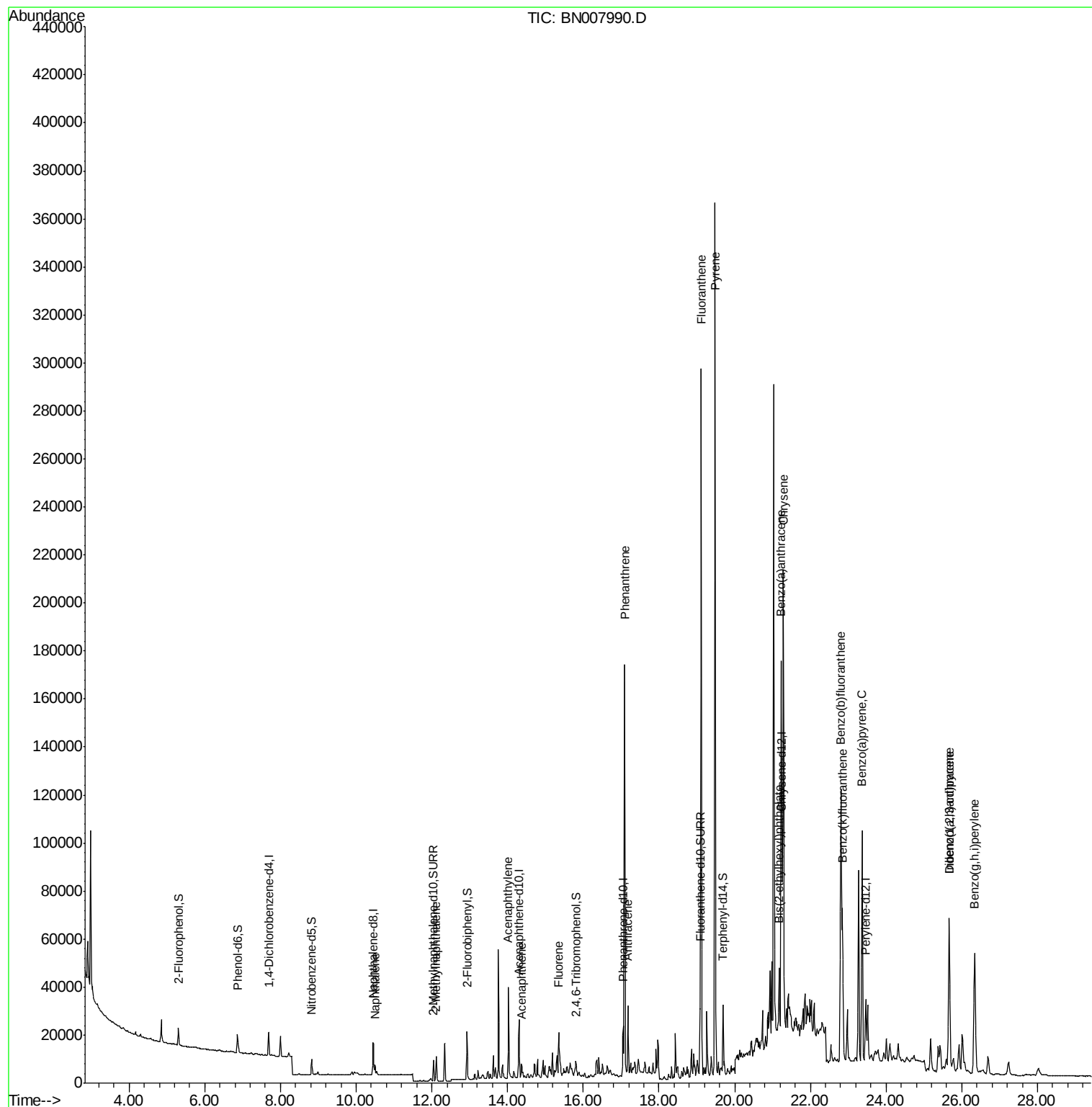
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100319\
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#1

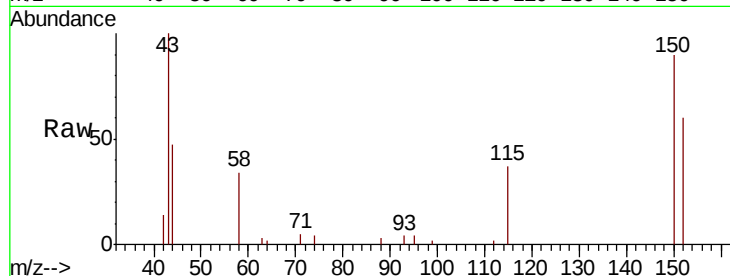
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 603
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B280-092519

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.2	125.6	188.4
115	62.3	53.3	79.9

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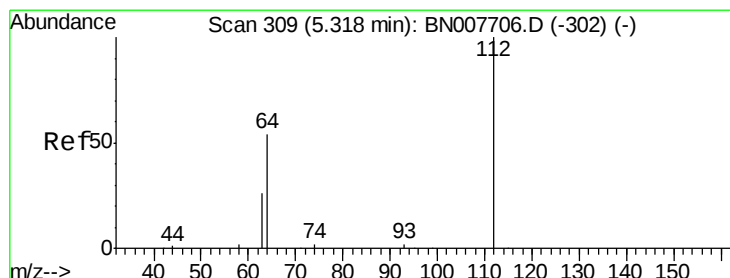
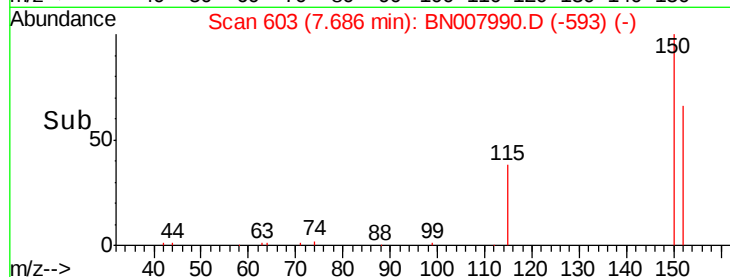
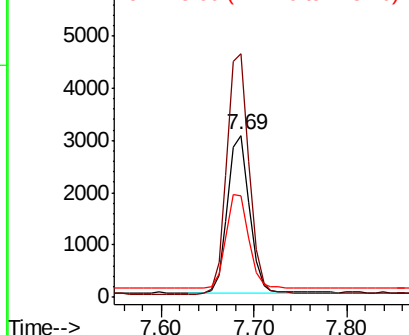


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

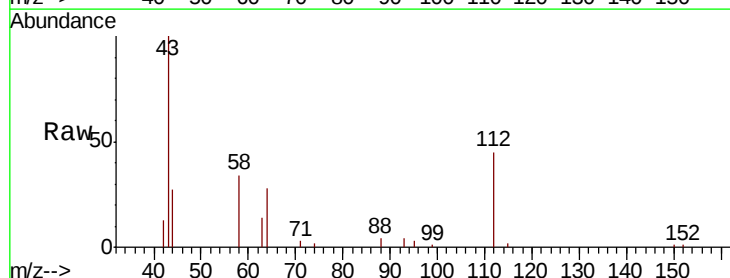
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.325 ng
RT: 5.30 min Scan# 307
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.8	46.6	70.0
63	28.1	23.1	34.7

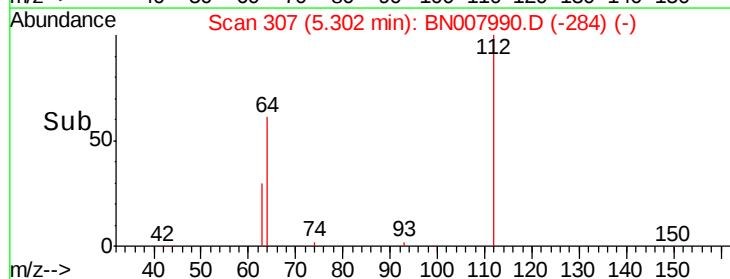
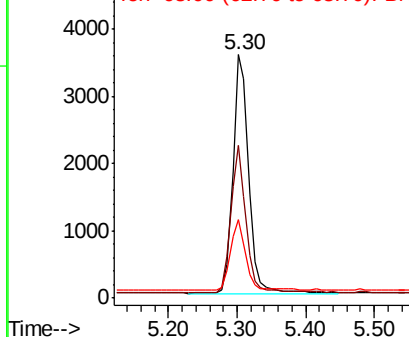


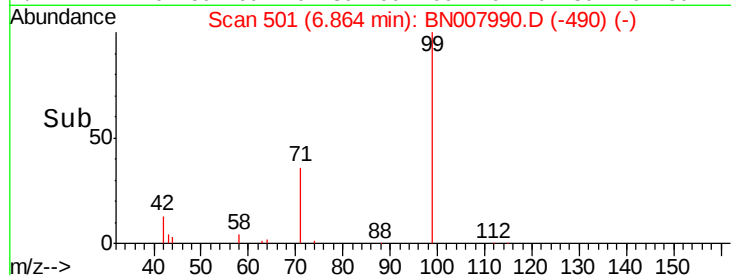
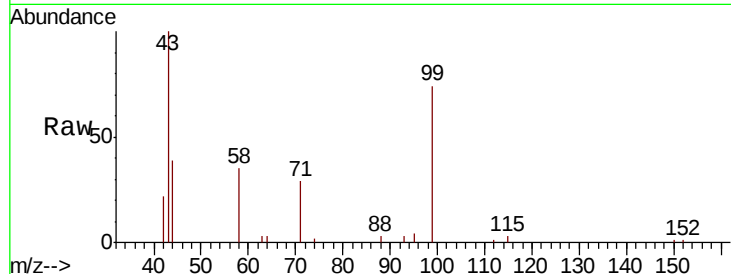
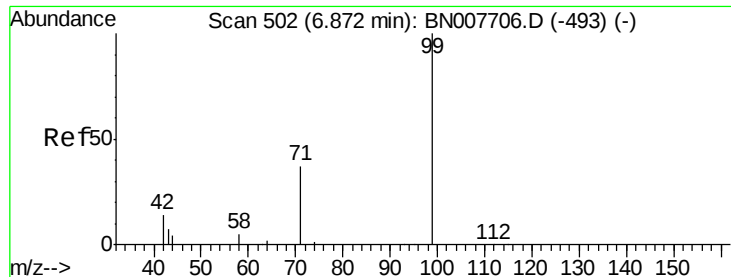
Abundance

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: 0.370 ng

RT: 6.86 min Scan# 501

Delta R.T. -0.01 min

Lab File: BN007990.D

Acq: 03 Oct 2019 20:59

Tot Ion:	99	Resp:	7922
Ion	Ratio	Lower	Upper
99	100		
42	17.4	12.8	19.2
71	36.5	27.6	41.4

Instrument :

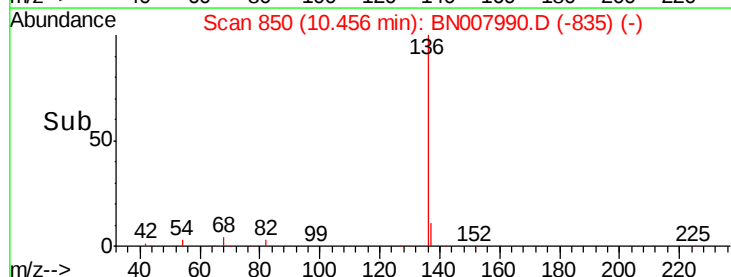
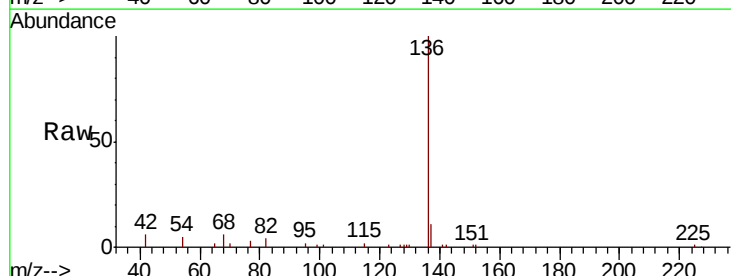
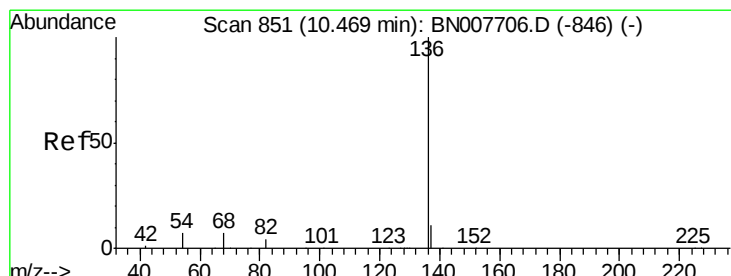
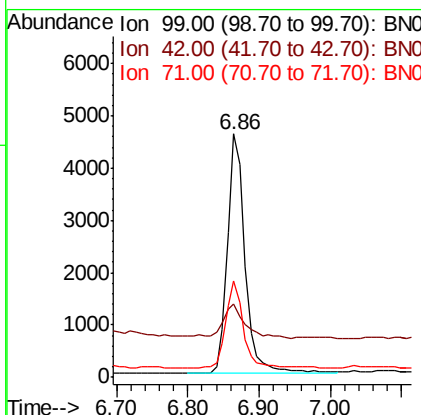
BNA_N

ClientSampleId :

PST-024-B280-092519

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#7

Naphthalene-d8

Concen: 0.400 ng

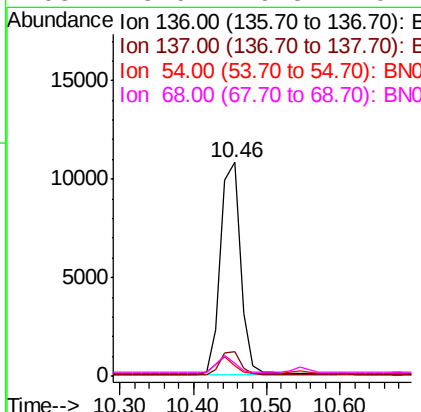
RT: 10.46 min Scan# 850

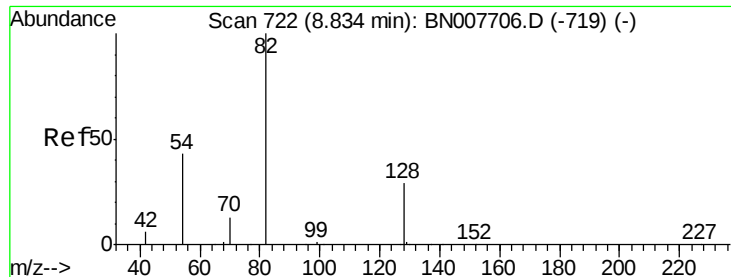
Delta R.T. -0.01 min

Lab File: BN007990.D

Acq: 03 Oct 2019 20:59

Tgt Ion:	136	Resp:	20732
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	4.8	5.8	8.8#
68	5.9	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: BN007990.D

Acq: 03 Oct 2019 20:59

Instrument :

BNA_N

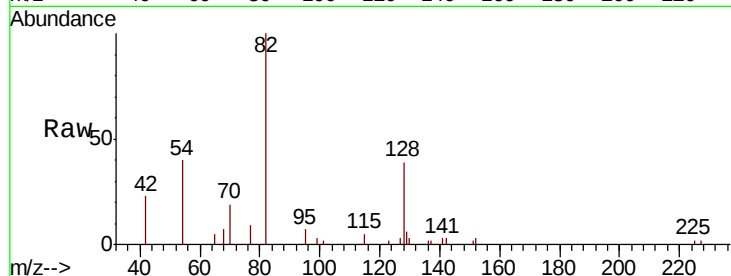
ClientSampleId :

PST-024-B280-092519

Tot Ion:	82	Resp:	5890
Ion Ratio	Lower	Upper	
82	100		
128	39.5	24.5	36.7#
54	40.1	35.2	52.8

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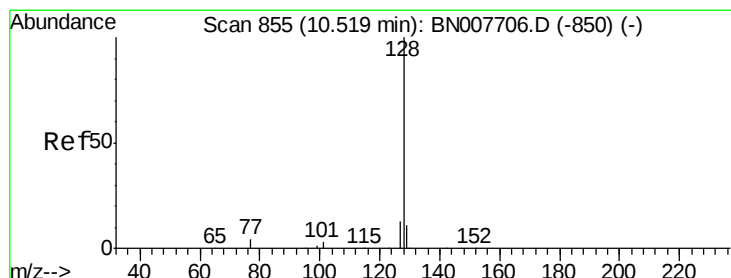
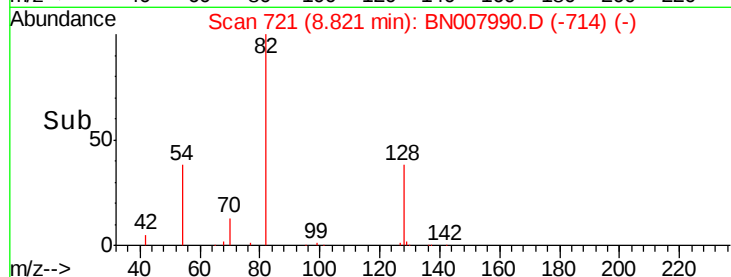
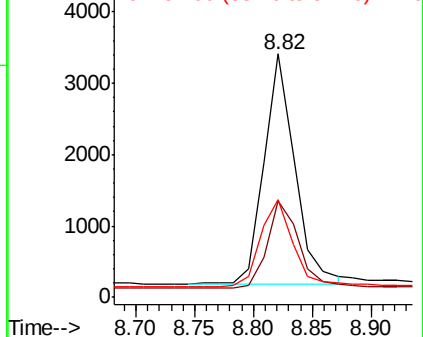
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Abundance Ion 82.00 (81.70 to 82.70): BN007706.D (-719) (-)

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: 0.101 ng

RT: 10.49 min Scan# 853

Delta R.T. -0.03 min

Lab File: BN007990.D

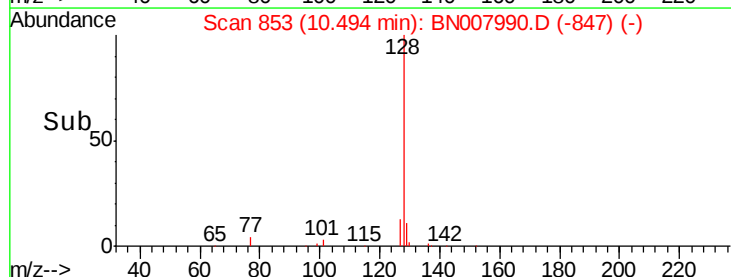
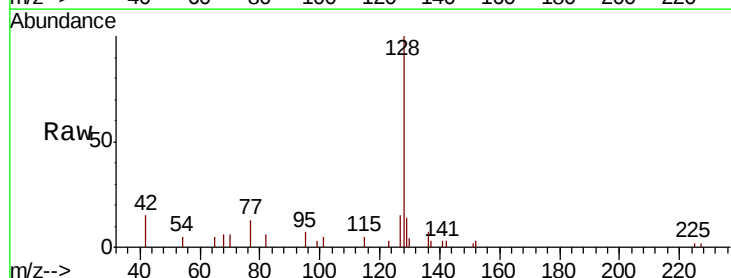
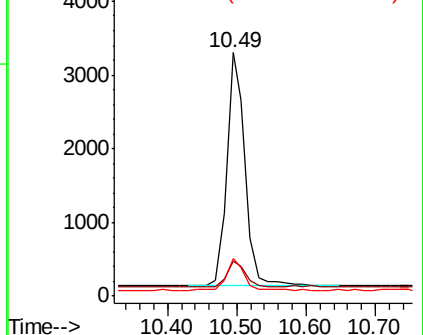
Acq: 03 Oct 2019 20:59

Tgt Ion:	128	Resp:	5899
Ion Ratio	Lower	Upper	
128	100		
129	14.3	9.1	13.7#
127	15.2	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) (-)





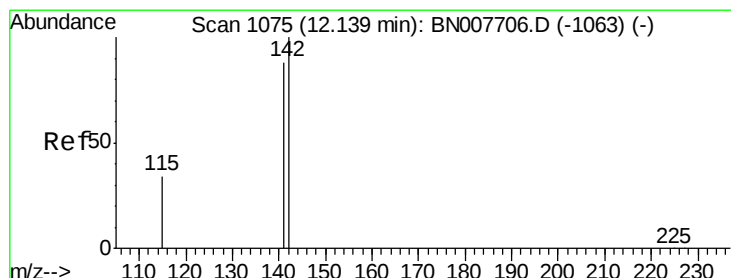
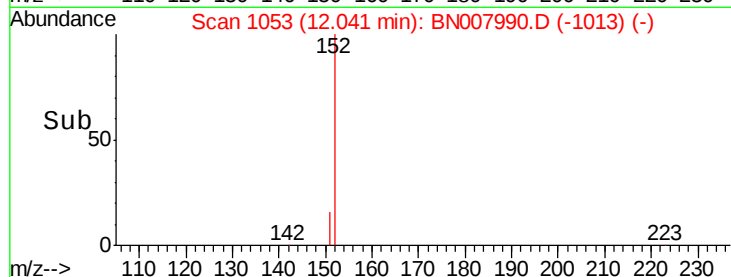
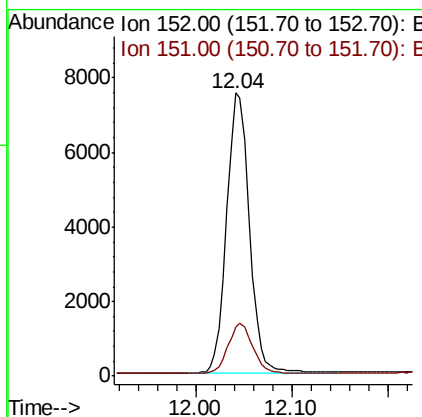
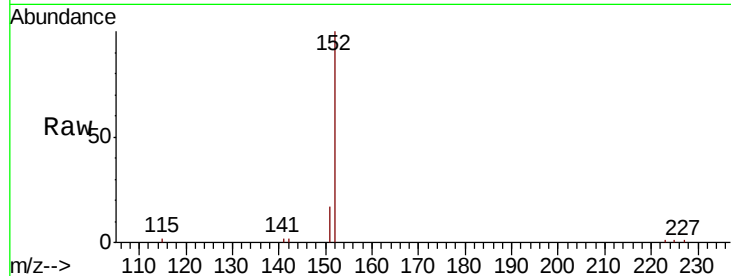
#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 12.04 min Scan# 1053
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B280-092519

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.4	23.2

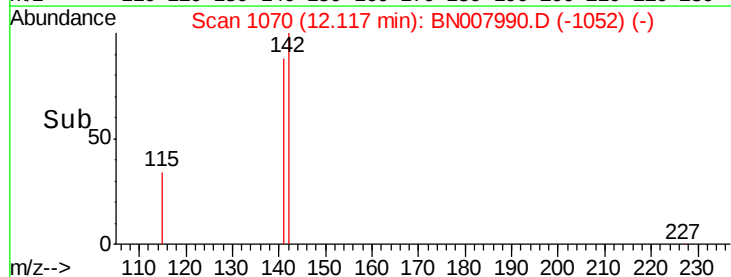
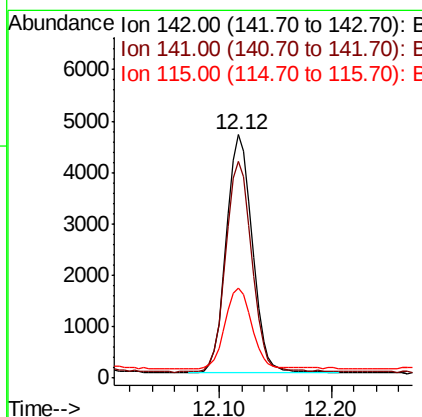
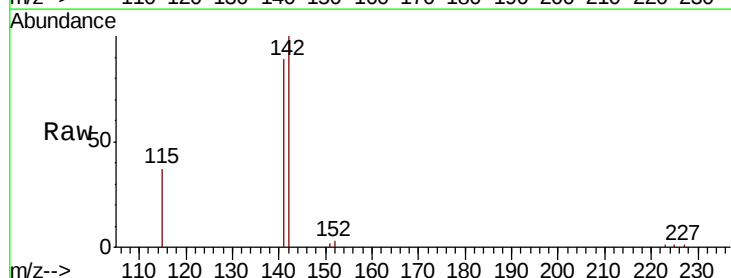
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#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.12 min Scan# 1070
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.8	70.6	106.0
115	37.0	28.3	42.5





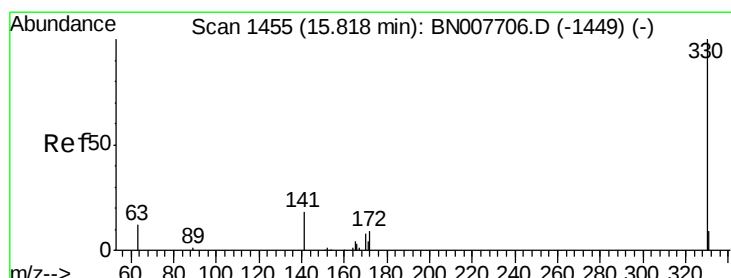
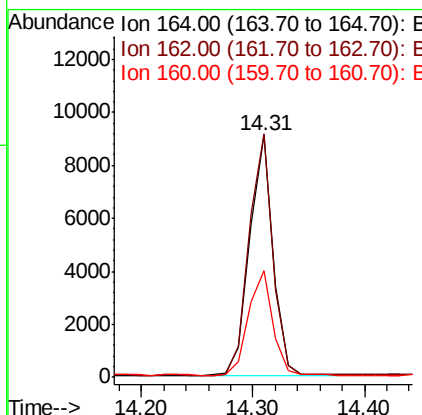
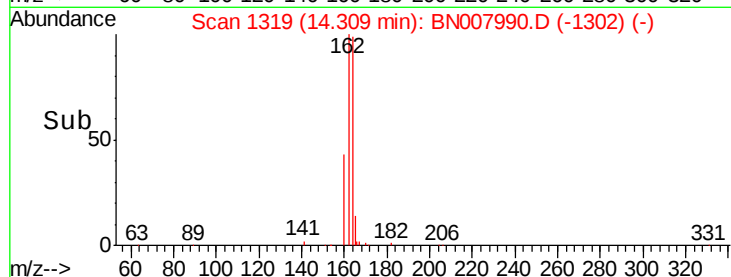
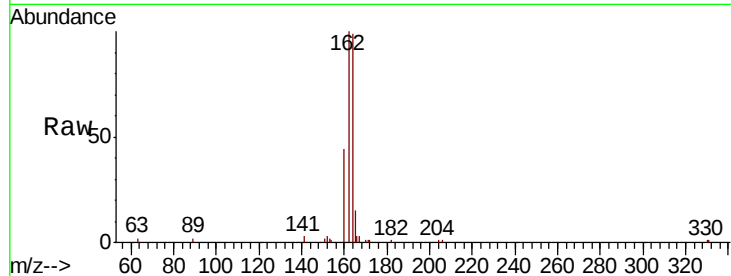
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B280-092519

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.7	122.5
160	43.9	37.0	55.4

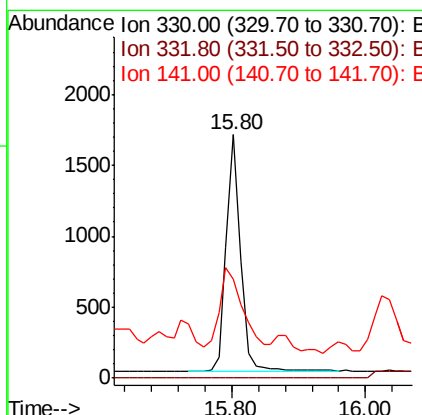
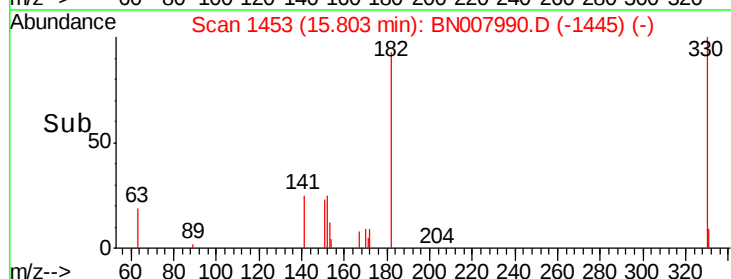
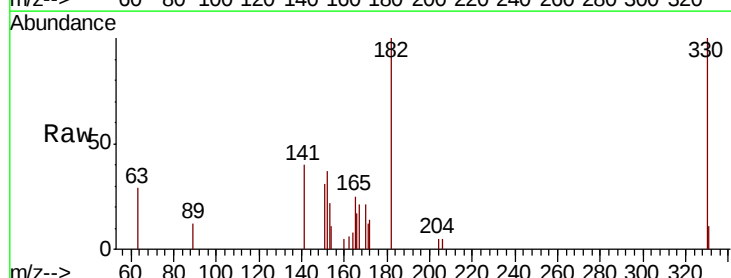
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#14
2,4,6-Tribromophenol
Concen: 0.343 ng
RT: 15.80 min Scan# 1453
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	53.3	28.7	43.1#





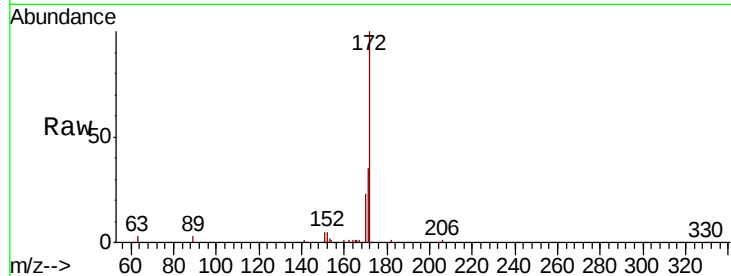
#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 12.93 min Scan# 1195
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B280-092519

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	23.3	19.5	29.3

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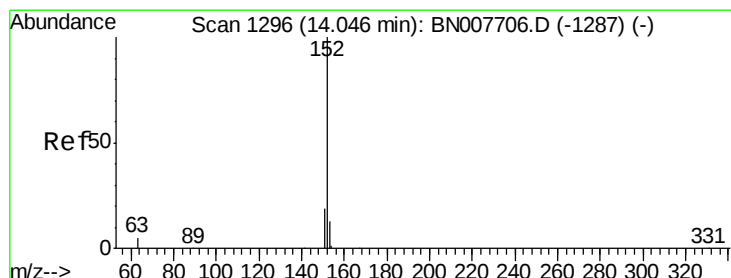
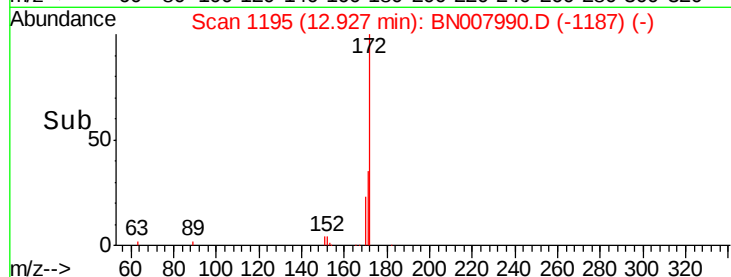
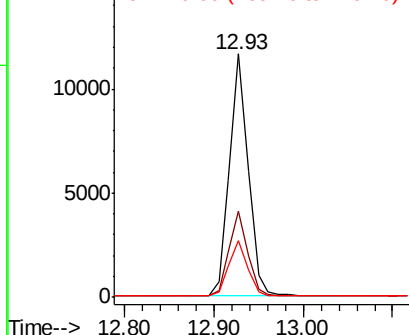


Abundance

Ion 172.00 (171.70 to 172.70): E

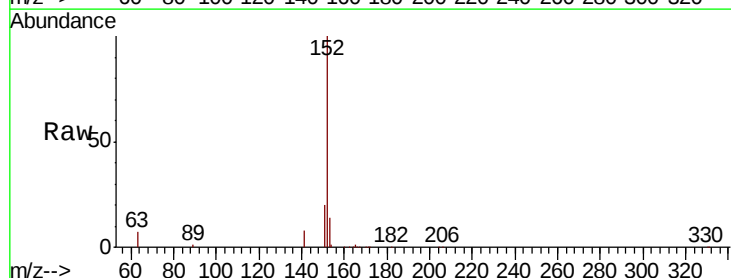
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 0.663 ng
RT: 14.02 min Scan# 1293
Delta R.T. -0.03 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.5	23.3
153	14.0	10.4	15.6

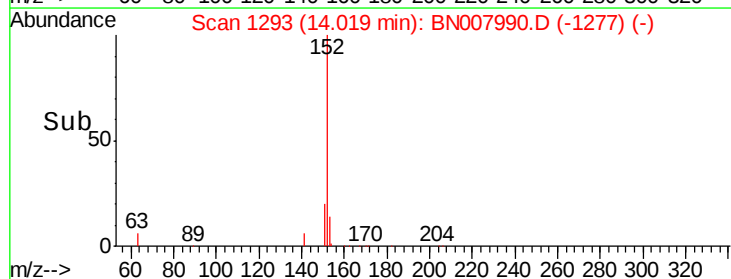
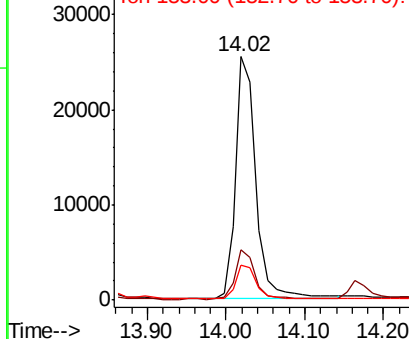


Abundance

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: 0.071 ng

RT: 14.36 min Scan# 1324

Delta R.T. -0.03 min

Lab File: BN007990.D

Acq: 03 Oct 2019 20:59

Instrument :

BNA_N

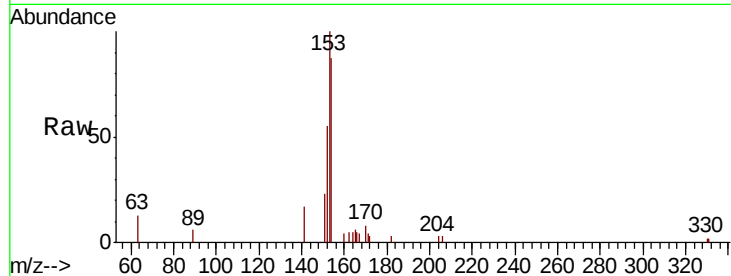
ClientSampleId :

PST-024-B280-092519

Tot Ion:	154	Resp:	3206
Ion	Ratio	Lower	Upper
154	100		
153	119.7	87.0	130.4
152	61.6	42.7	64.1

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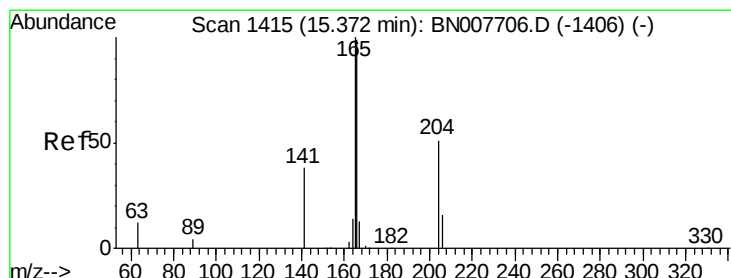
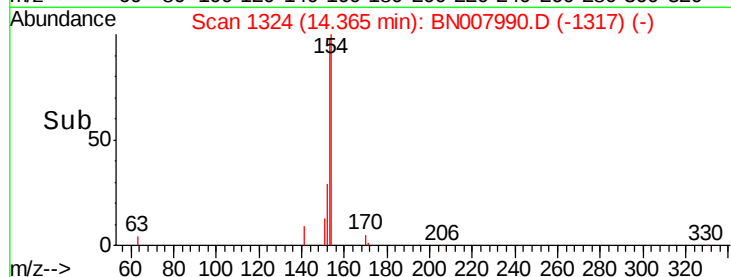
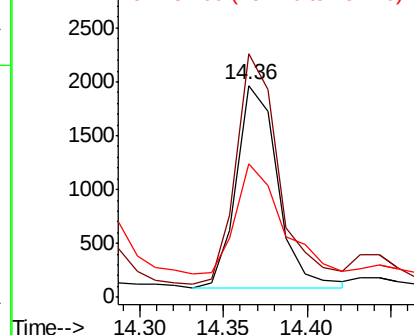


Abundance

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: 0.222 ng

RT: 15.36 min Scan# 1413

Delta R.T. -0.02 min

Lab File: BN007990.D

Acq: 03 Oct 2019 20:59

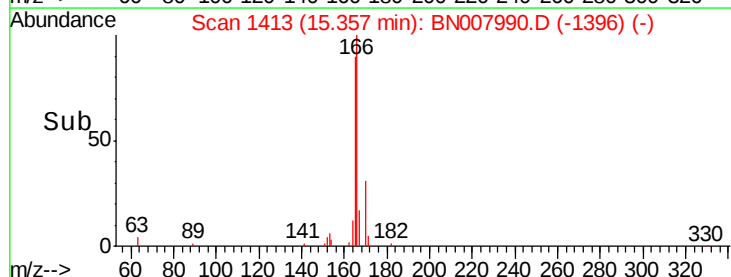
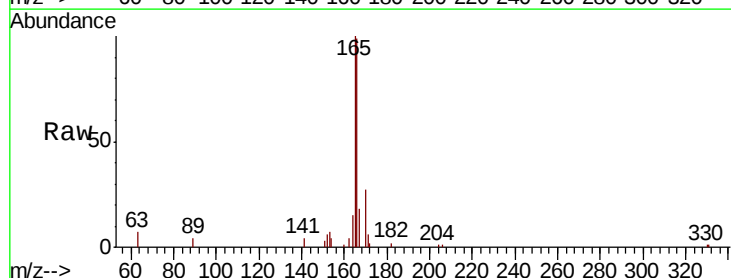
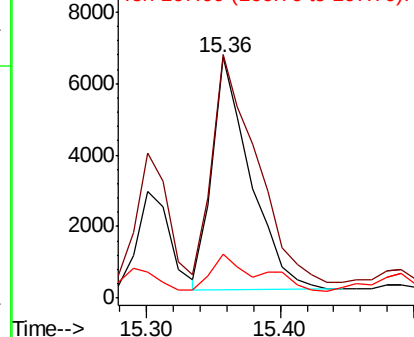
Tgt Ion:	166	Resp:	12869
Ion	Ratio	Lower	Upper
166	100		
165	113.7	78.0	117.0
167	19.4	10.9	16.3#

Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





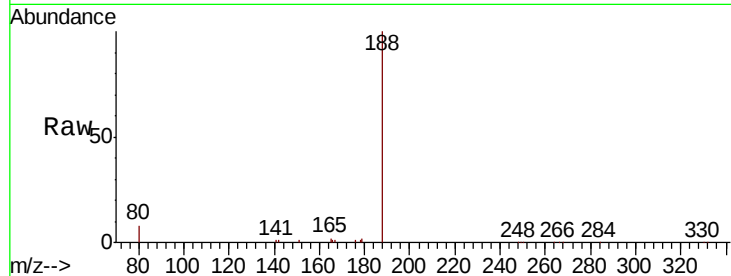
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.06 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B280-092519

Tot Ion	Ratio	Resp	Lower	Upper
188	100	28538		
94	0.0	0.0	0.0	0.0
80	8.4	7.4	11.2	

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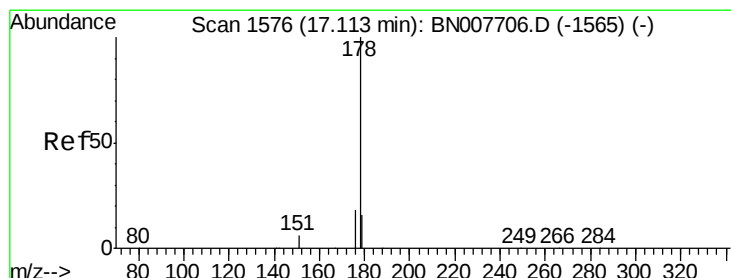
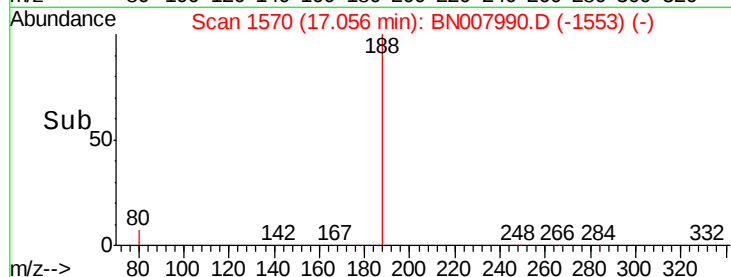
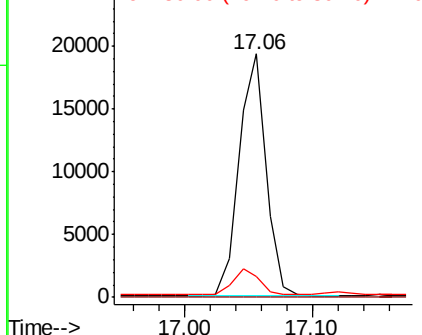


Abundance

Ion 188.00 (187.70 to 188.70): E

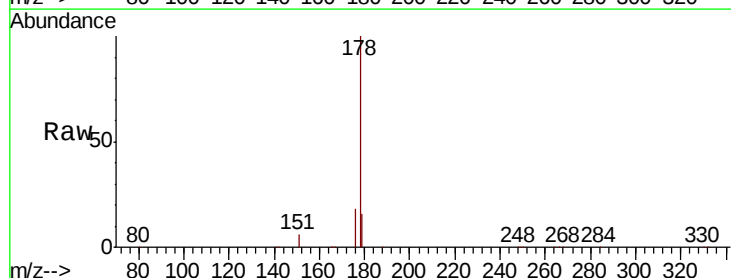
Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#23
Phenanthrene
Concen: 2.176 ng
RT: 17.10 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	193408		
176	18.6	14.9	22.3	
179	15.8	12.5	18.7	

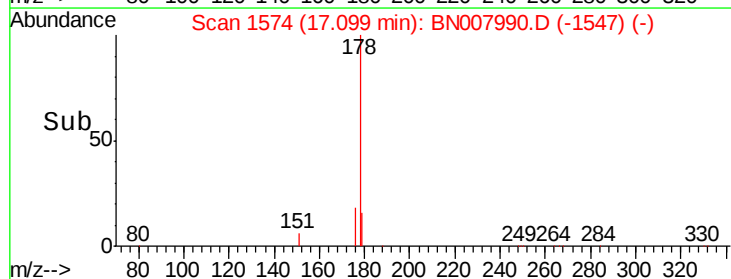
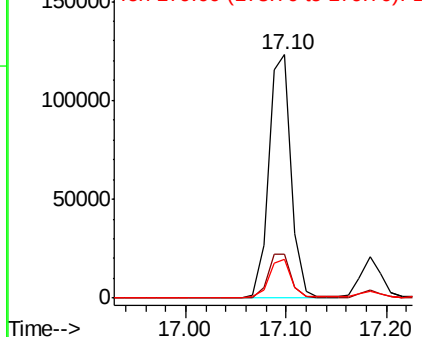


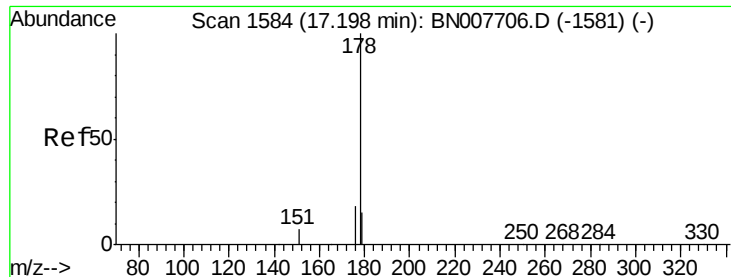
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





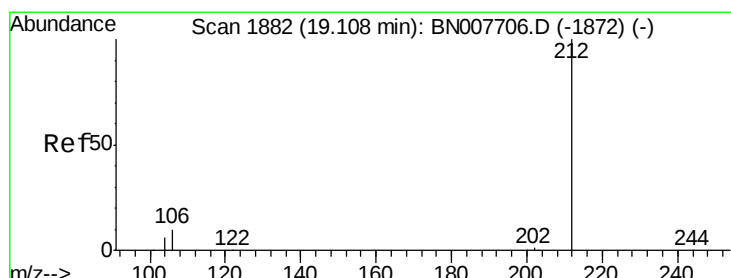
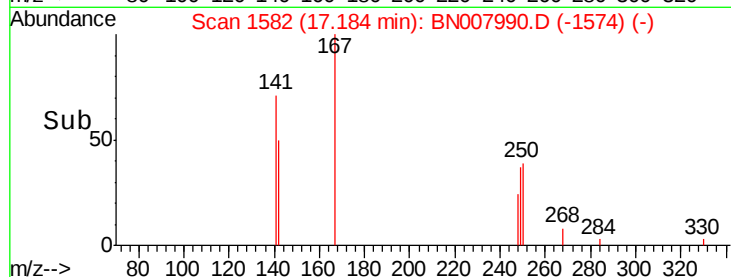
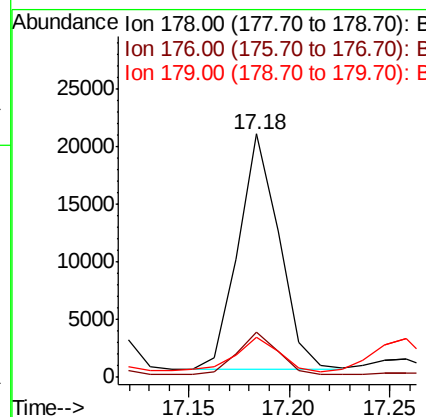
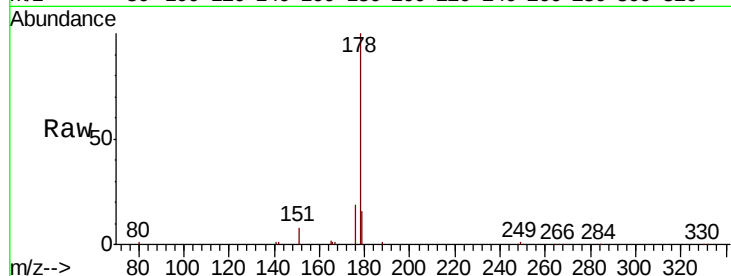
#24
 Anthracene
 Concen: 0.363 ng
 RT: 17.18 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: BN007990.D
 Acq: 03 Oct 2019 20:59

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B280-092519

Tot Ion:178	Resp:	29110
Ion Ratio	Lower	Upper
178	100	
176	18.1	14.6 21.8
179	15.2	12.2 18.4

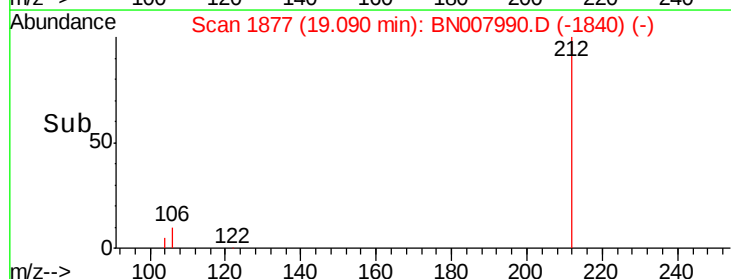
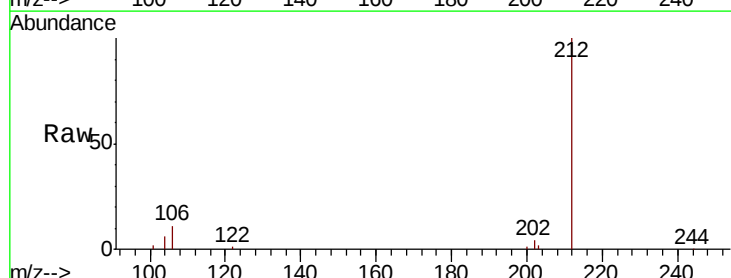
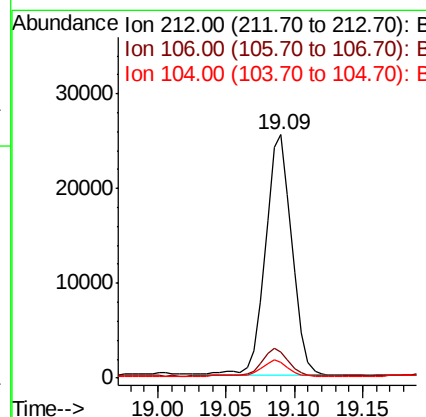
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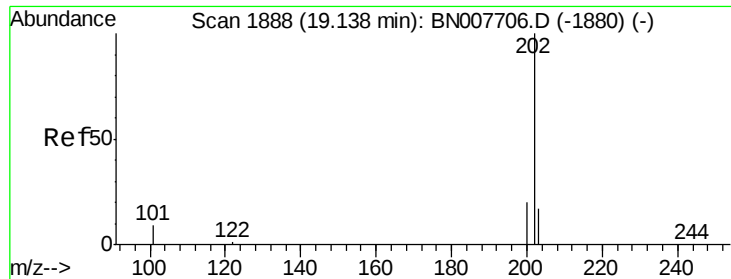
mohammad
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#25
 Fluoranthene-d10
 Concen: 0.359 ng
 RT: 19.09 min Scan# 1877
 Delta R.T. -0.02 min
 Lab File: BN007990.D
 Acq: 03 Oct 2019 20:59

Tgt Ion:212	Resp:	34501
Ion Ratio	Lower	Upper
212	100	
106	11.1	9.4 14.0
104	6.8	5.3 7.9





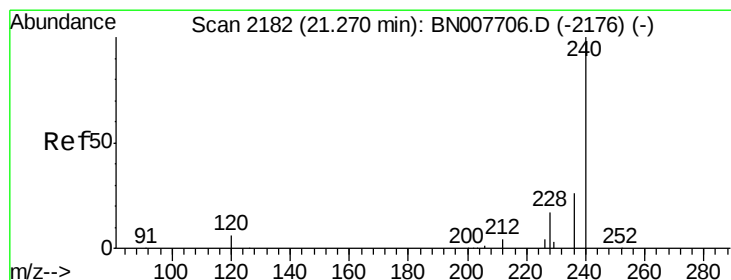
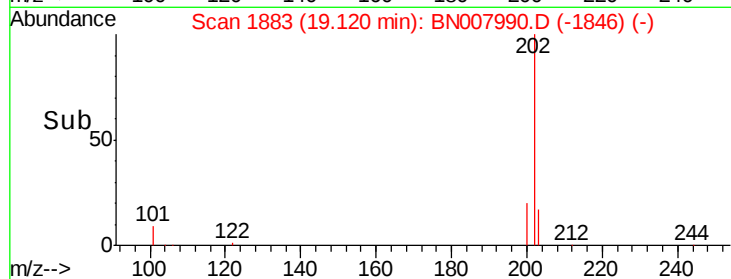
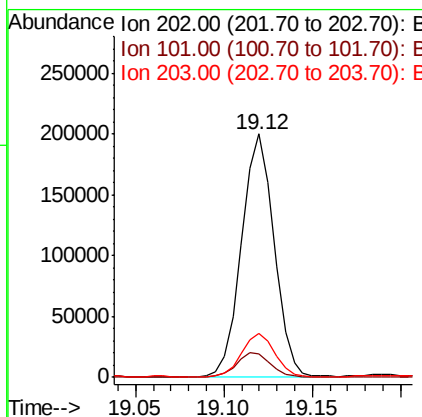
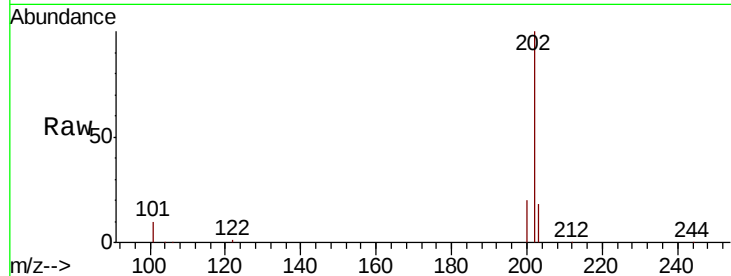
#26
 Fluoranthene
 Concen: 2.303 ng
 RT: 19.12 min Scan# 1883
 Delta R.T. -0.02 min
 Lab File: BN007990.D
 Acq: 03 Oct 2019 20:59

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-B280-092519

Tot Ion	Ratio	Resp	Lower	Upper
202	100	254534		
101	10.3		8.4	12.6
203	17.9		13.8	20.8

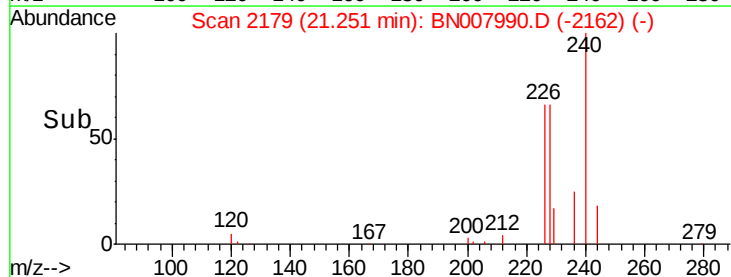
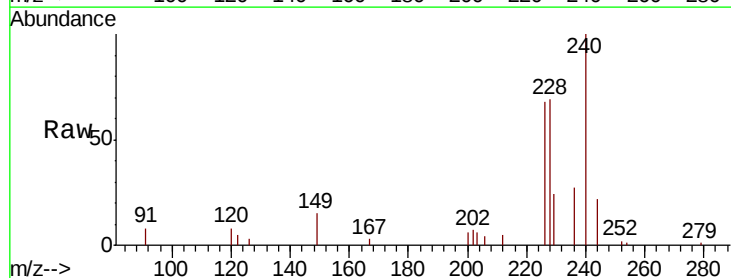
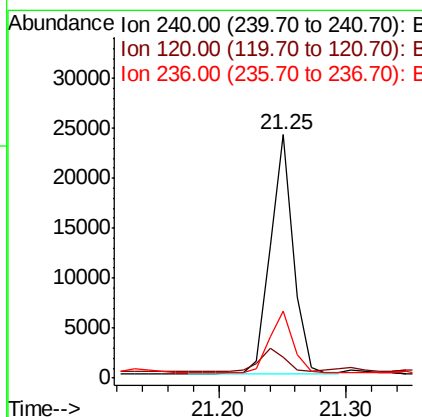
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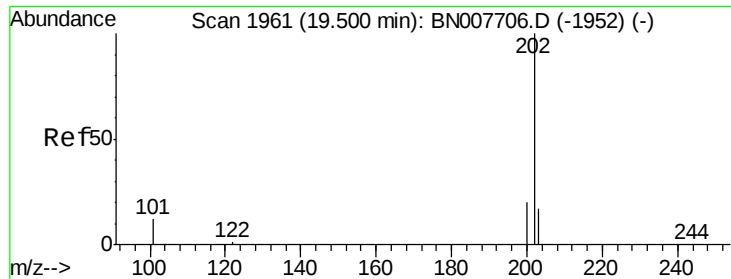
mohammad
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#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.25 min Scan# 2179
 Delta R.T. -0.02 min
 Lab File: BN007990.D
 Acq: 03 Oct 2019 20:59

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	29981		
120	8.4		5.4	8.2#
236	27.5		21.0	31.4





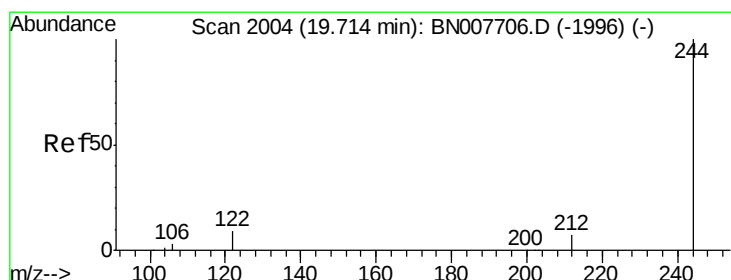
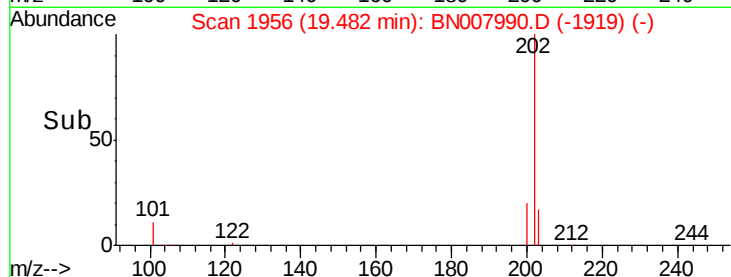
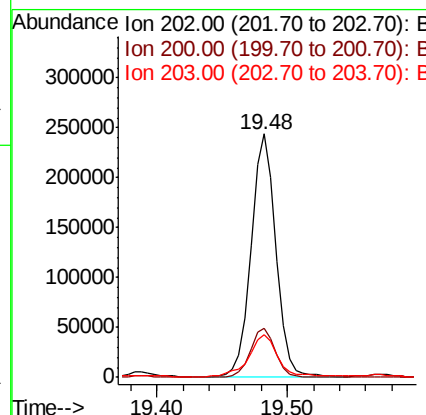
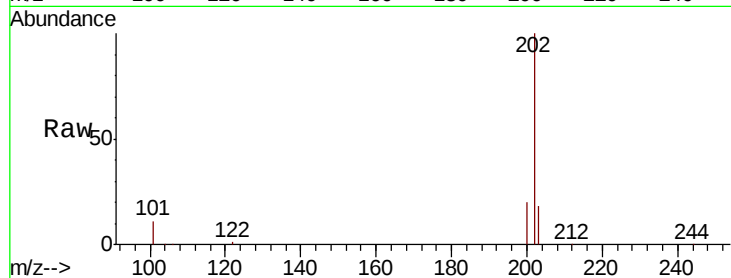
#28
Pvrene
Concen: 3.137 ng
RT: 19.48 min Scan# 1956
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B280-092519

Tot Ion:	202	Resp:	320726
Ion Ratio	Lower	Upper	
202	100		
200	20.3	16.4	24.6
203	20.2	14.1	21.1

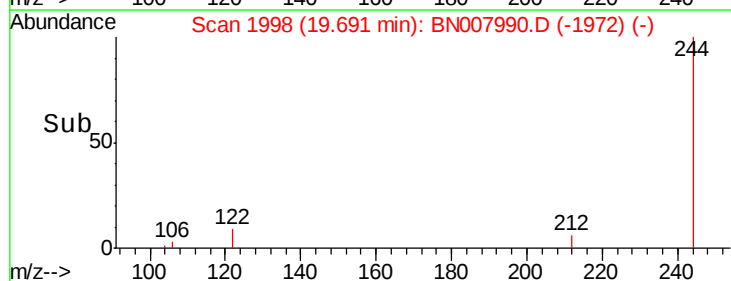
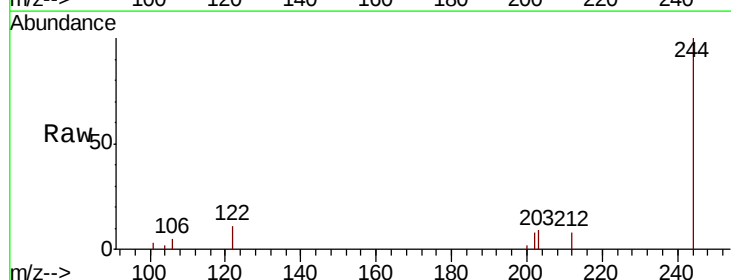
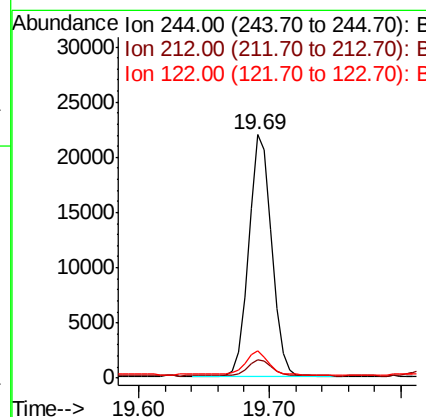
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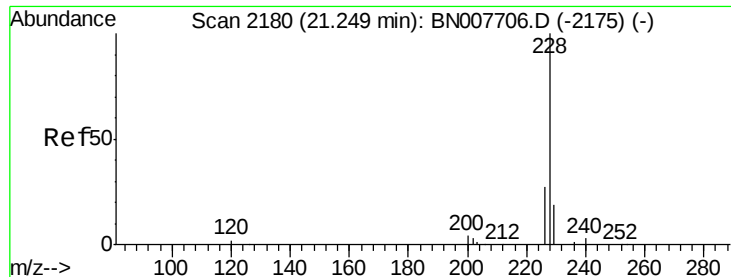
mohammad
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#29
Terphenyl-d14
Concen: 0.364 ng
RT: 19.69 min Scan# 1998
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Tgt Ion:	244	Resp:	26783
Ion Ratio	Lower	Upper	
244	100		
212	7.7	5.9	8.9
122	11.0	7.4	11.2





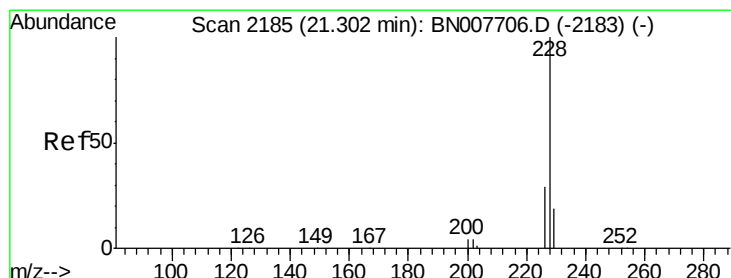
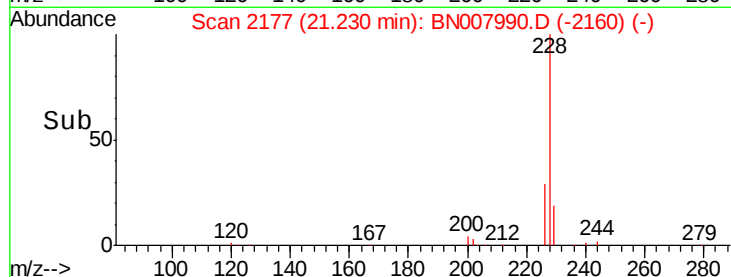
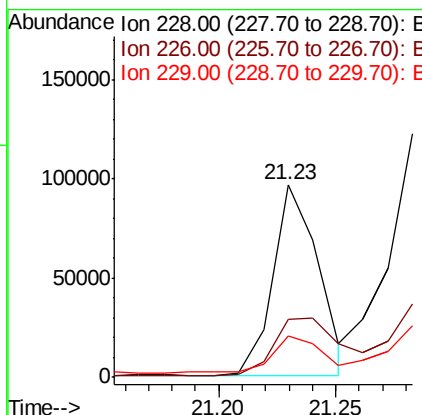
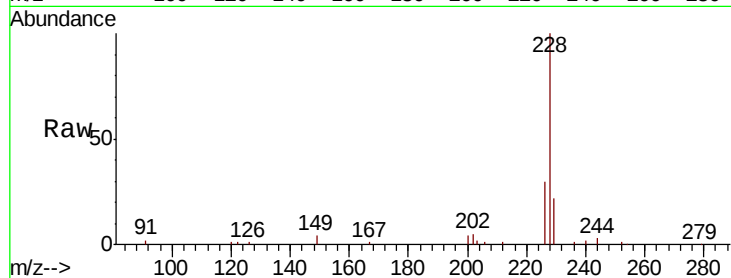
#30
Benzo(a)anthracene
Concen: 1.176 ng
RT: 21.23 min Scan# 2177
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B280-092519

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	22.1	33.1
229	21.7	15.8	23.6

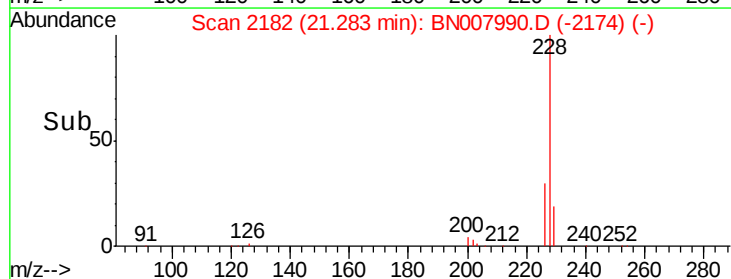
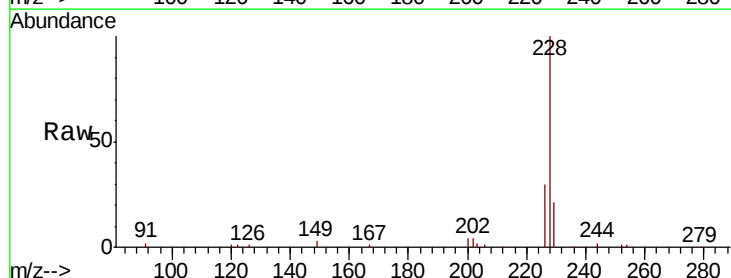
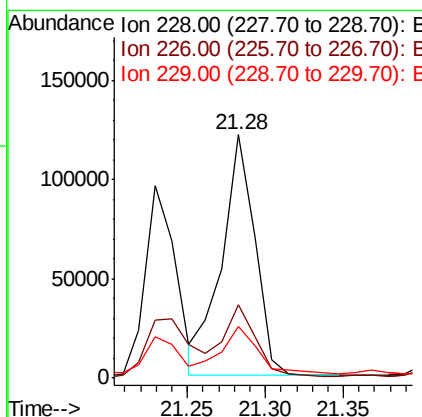
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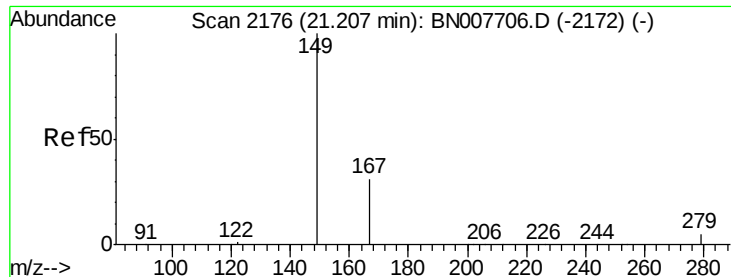
mohammad
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#31
Chrysene
Concen: 1.682 ng
RT: 21.28 min Scan# 2182
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.9	35.9
229	21.0	15.8	23.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.377 ng

RT: 21.18 min Scan# 2172

Delta R.T. -0.03 min

Lab File: BN007990.D

Acq: 03 Oct 2019 20:59

Instrument :

BNA_N

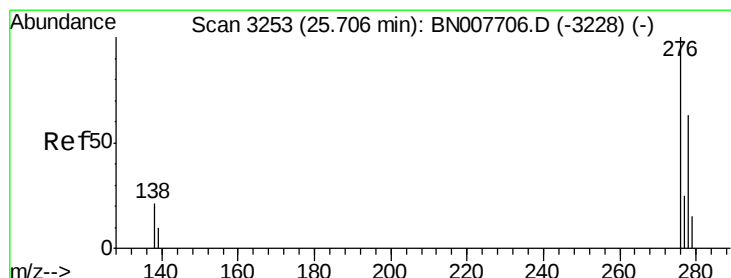
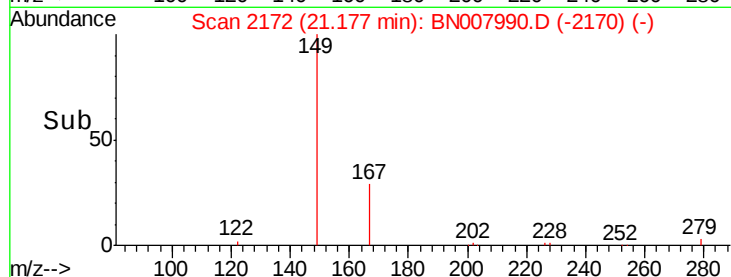
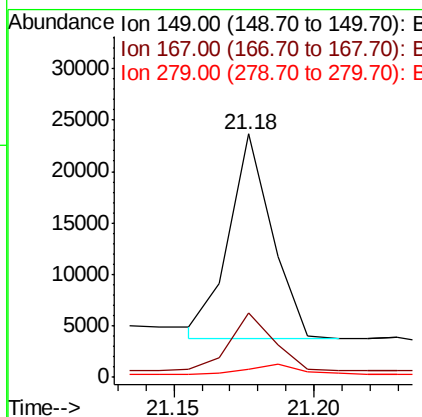
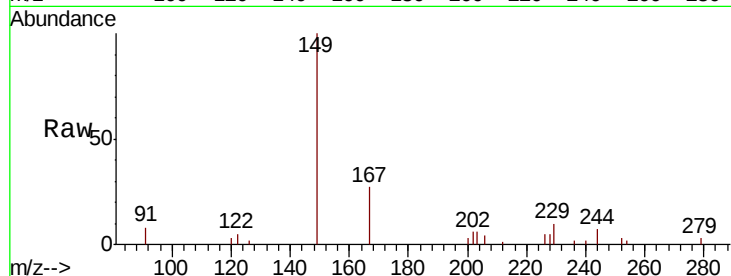
ClientSampleId :

PST-024-B280-092519

Tot Ion:	149	Resp:	21390
Ion Ratio	Lower	Upper	
149	100		
167	28.6	23.7	35.5
279	5.2	4.2	6.2

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#33

Indeno(1,2,3-cd)pyrene

Concen: 0.733 ng

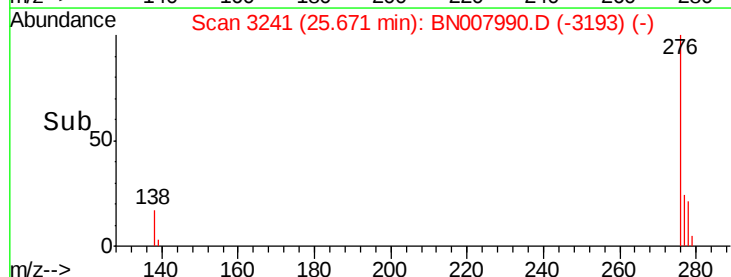
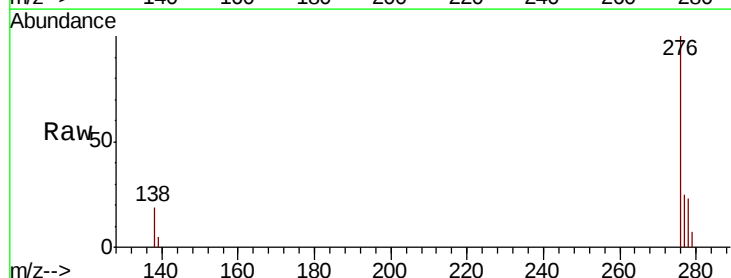
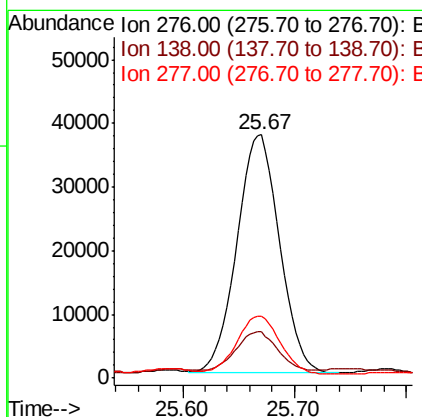
RT: 25.67 min Scan# 3241

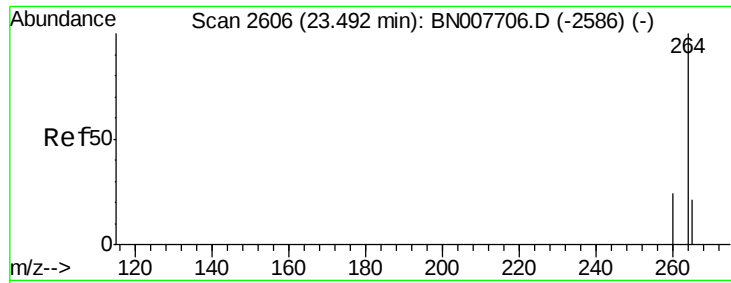
Delta R.T. -0.04 min

Lab File: BN007990.D

Acq: 03 Oct 2019 20:59

Tgt Ion:	276	Resp:	98742
Ion Ratio	Lower	Upper	
276	100		
138	16.1	17.1	25.7#
277	24.8	20.0	30.0





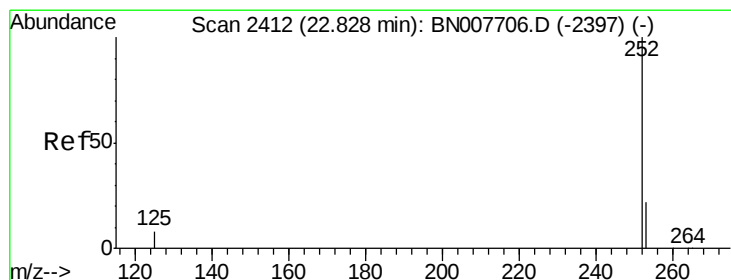
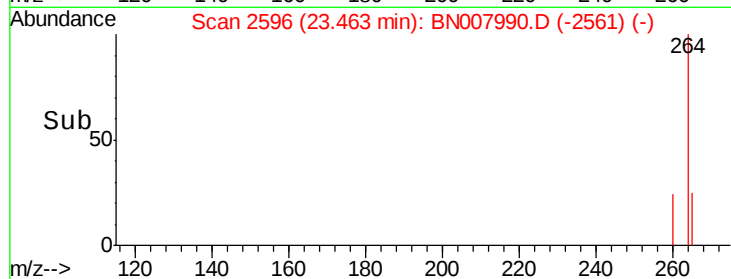
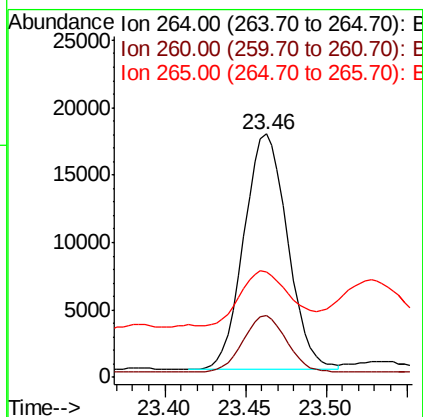
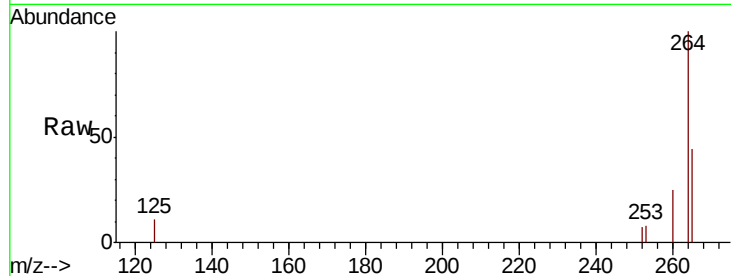
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.46 min Scan# 2596
Delta R.T. -0.03 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B280-092519

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.3	28.9
265	43.5	26.9	40.3

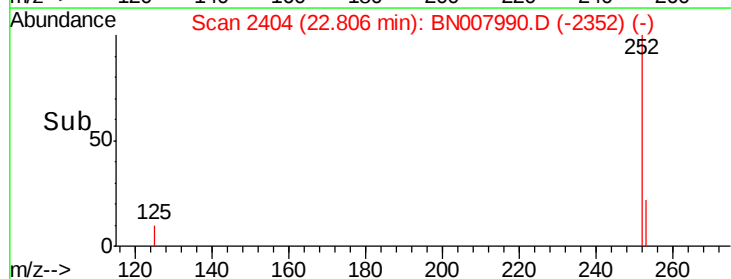
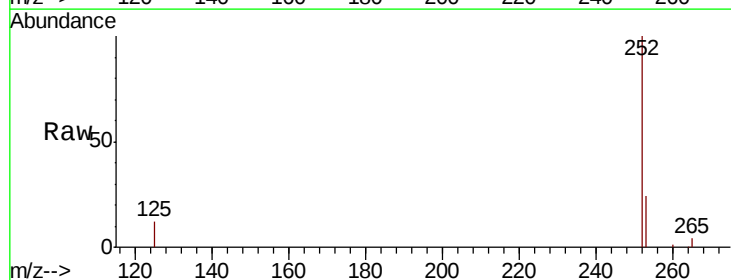
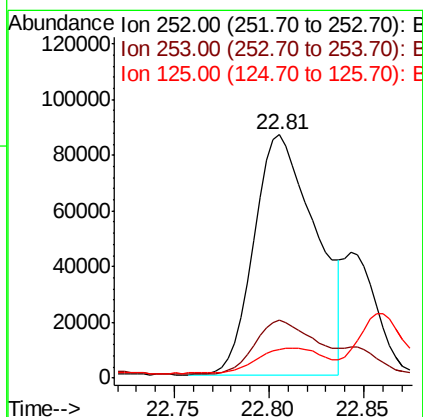
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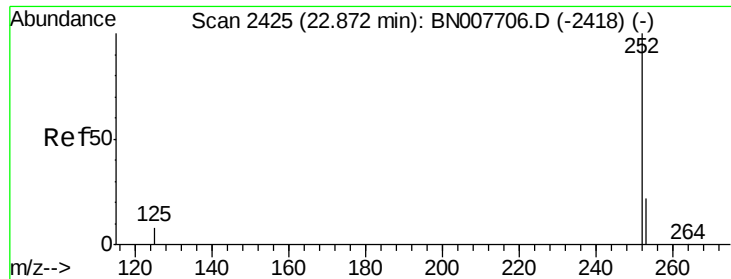
mohammad
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#35
Benzo(b)fluoranthene
Concen: 1.708 ng
RT: 22.81 min Scan# 2404
Delta R.T. -0.02 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.3	27.5
125	11.6	8.2	12.4





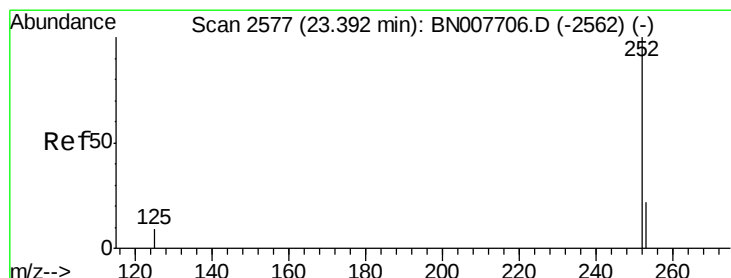
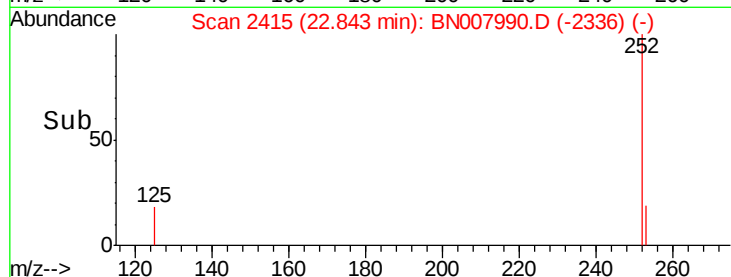
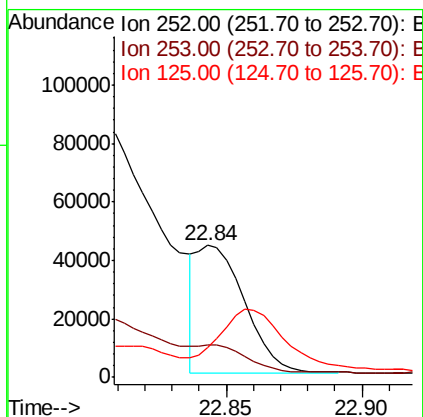
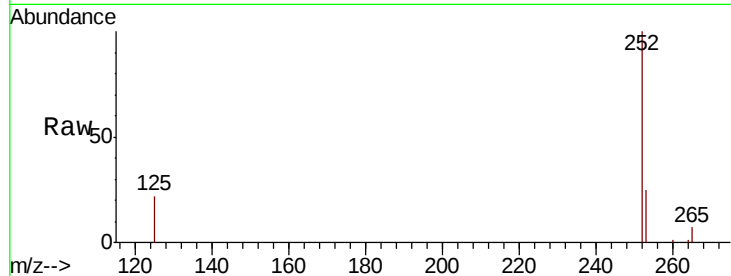
#36
Benzo(k)fluoranthene
Concen: 0.478 ng m
RT: 22.84 min Scan# 2415
Delta R.T. -0.03 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B280-092519

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.5	27.7
125	22.2	8.4	12.6

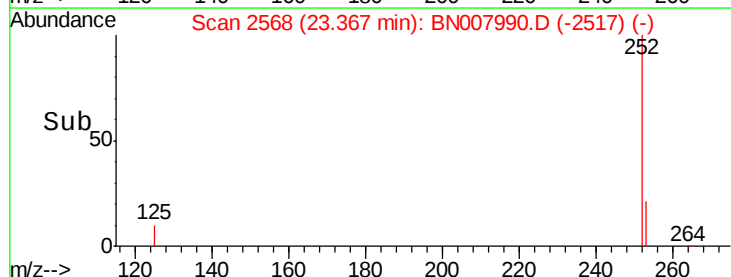
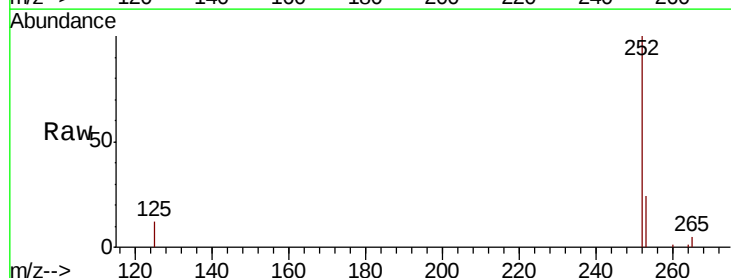
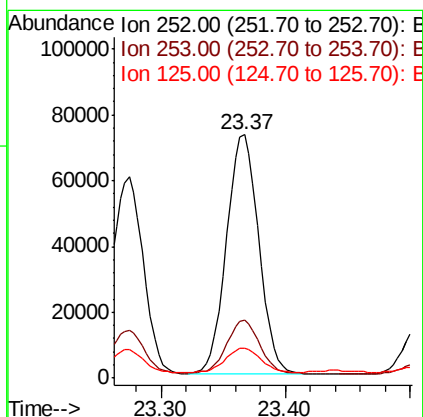
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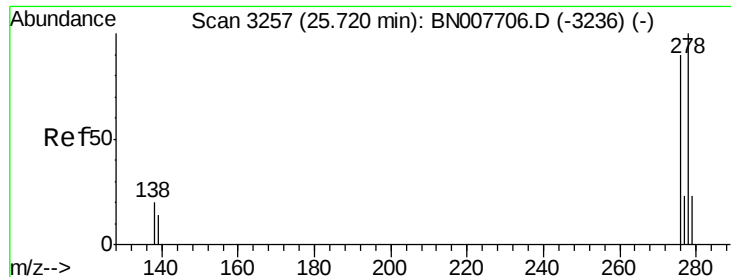
mohammad
10/7/2019 8:27:19 AM



#37
Benzo(a)pyrene
Concen: 1.221 ng
RT: 23.37 min Scan# 2568
Delta R.T. -0.03 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.6	27.8
125	12.4	9.4	14.0





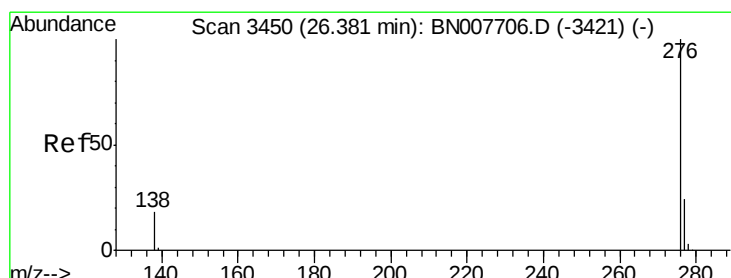
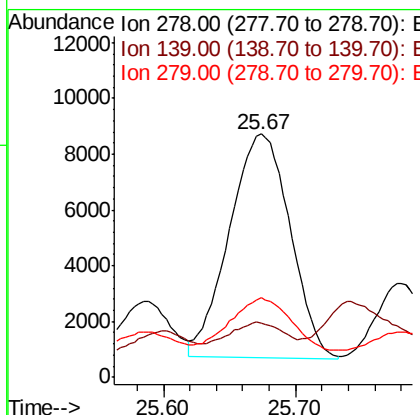
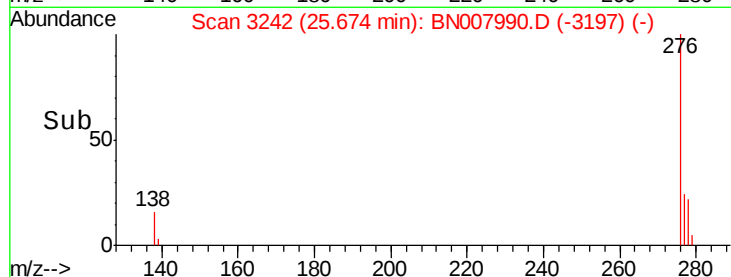
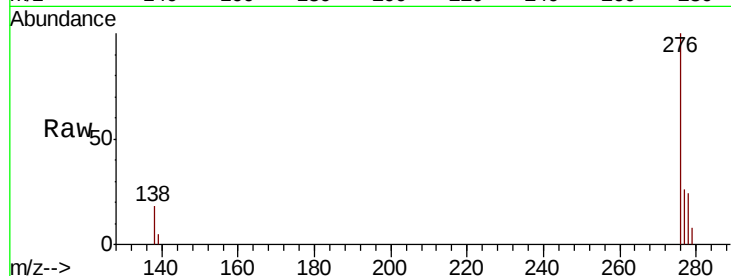
#38
Dibenzo(a,h)anthracene
Concen: 0.234 ng
RT: 25.67 min Scan# 3242
Delta R.T. -0.05 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Instrument :
BNA_N
ClientSampleId :
PST-024-B280-092519

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.3	11.8	17.6#
279	32.5	19.4	29.2#

Manual Integrations
APPROVED

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#39
Benzo(g,h,i)perylene
Concen: 0.984 ng
RT: 26.34 min Scan# 3438
Delta R.T. -0.04 min
Lab File: BN007990.D
Acq: 03 Oct 2019 20:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.8	29.8
138	18.9	15.1	22.7

