

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
 Data File : BN008013.D
 Acq On : 04 Oct 2019 20:58
 Operator : JU
 Sample : K5078-07
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW071-092619

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:45:35 AM

Quant Time: Oct 05 03:51:19 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	26434	0.40	ng	-0.02
7) Naphthalene-d8	10.46	136	106145	0.40	ng	-0.01
13) Acenaphthene-d10	14.30	164	57811	0.40	ng	-0.02
19) Phenanthrene-d10	17.05	188	100242	0.40	ng	-0.02
27) Chrysene-d12	21.25	240	119984	0.40	ng	-0.02
34) Perylene-d12	23.47	264	148835	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.32	112	21426	0.24	ng	0.00
5) Phenol-d6	6.88	99	28809	0.25	ng	0.00
8) Nitrobenzene-d5	8.82	82	24562	0.26	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	46448	0.26	ng	-0.02
14) 2,4,6-Tribromophenol	15.81	330	7547	0.24	ng	-0.01
15) 2-Fluorobiphenyl	12.92	172	61696	0.26	ng	-0.02
25) Fluoranthene-d10	19.09	212	85549	0.25	ng	-0.01
29) Terphenyl-d14	19.69	244	70284	0.24	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.49	128	6266	0.021	ng	# 87
12) 2-Methylnaphthalene	12.12	142	4351	0.022	ng	# 92
16) Acenaphthylene	14.02	152	73643	0.240	ng	99
17) Acenaphthene	14.37	154	16467	0.083	ng	98
18) Fluorene	15.36	166	23999	0.095	ng	91
23) Phenanthrene	17.09	178	526826	1.687	ng	100
24) Anthracene	17.19	178	92917	0.329	ng	# 96
26) Fluoranthene	19.12	202	1220202	3.142	ng	99
28) Pyrene	19.49	202	1056054	2.581	ng	# 96
30) Benzo(a)anthracene	21.24	228	580606	1.314	ng	95
31) Chrysene	21.29	228	714208	1.659	ng	97
32) Bis(2-ethylhexyl)phthalate	21.17	149	66230	0.291	ng	99
33) Indeno(1,2,3-cd)pyrene	25.69	276	567649	1.053	ng	# 95
35) Benzo(b)fluoranthene	22.81	252	1018929	1.972	ng	97
36) Benzo(k)fluoranthene	22.85	252	430021m	0.842	ng	
37) Benzo(a)pyrene	23.38	252	669786	1.379	ng	97
38) Dibenzo(a,h)anthracene	25.69	278	129263	0.260	ng	# 81
39) Benzo(a,h,i)perylene	26.36	276	563364	1.146	ng	99

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

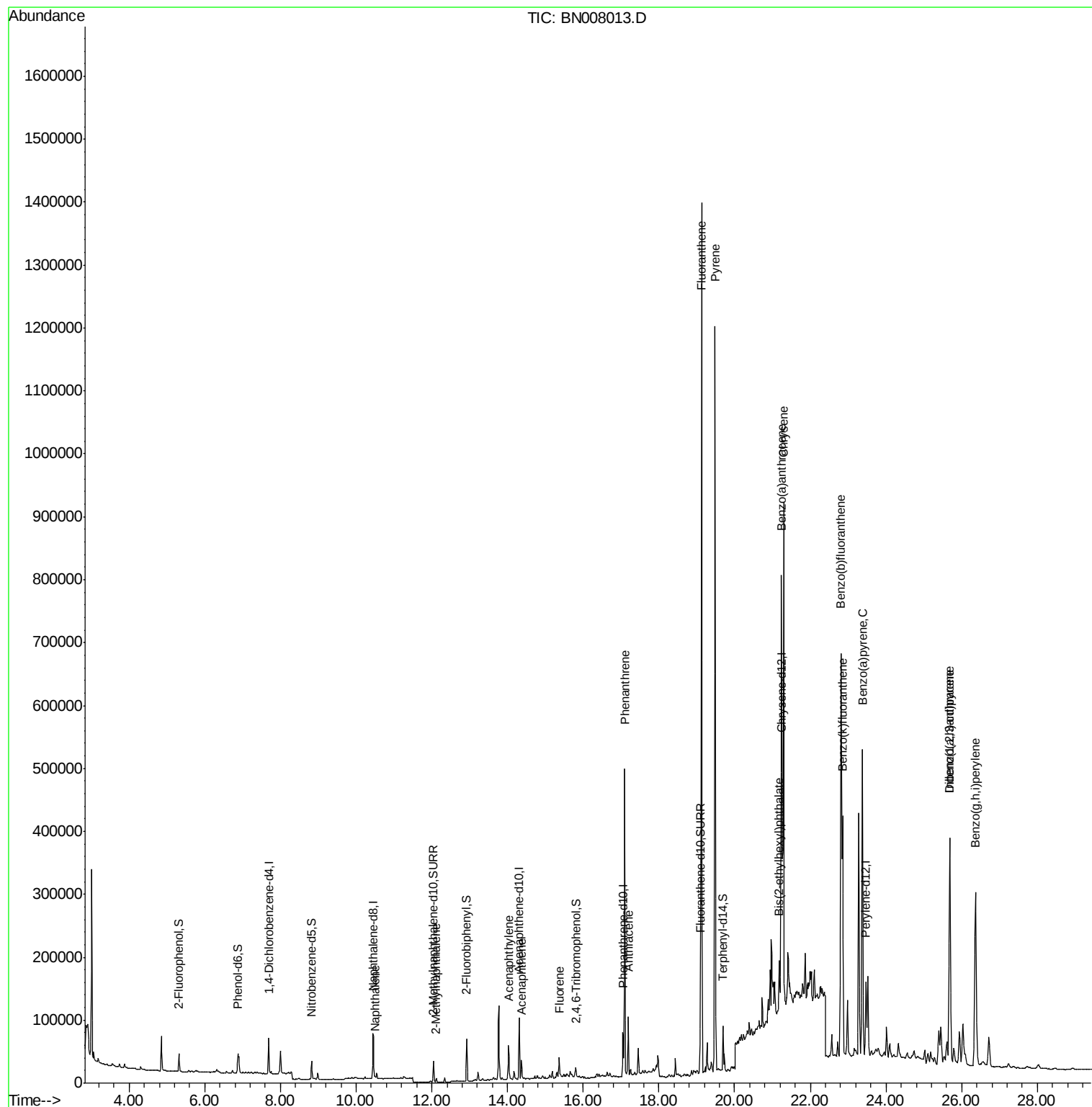
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
Data File : BN008013.D
Acq On : 04 Oct 2019 20:58
Operator : JU
Sample : K5078-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

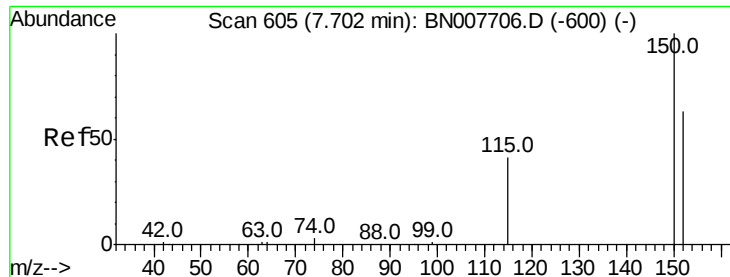
Instrument :
BNA_N
ClientSampleId :
EXT-024-SW071-092619

Quant Time: Oct 05 03:51:19 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

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#1

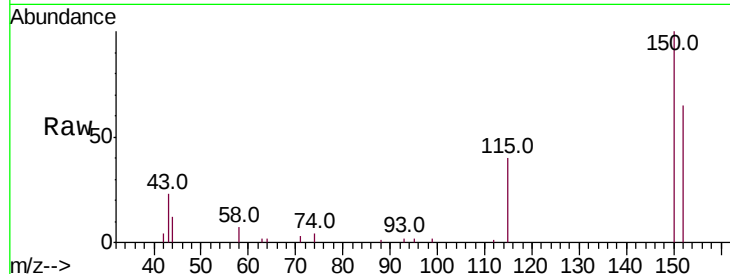
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 603
Delta R.T. -0.02 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW071-092619

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	125.6	188.4
115	62.2	53.3	79.9

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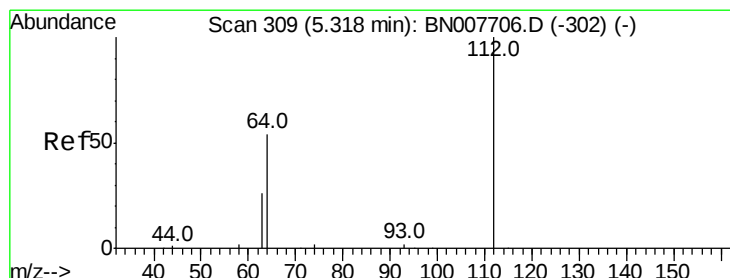
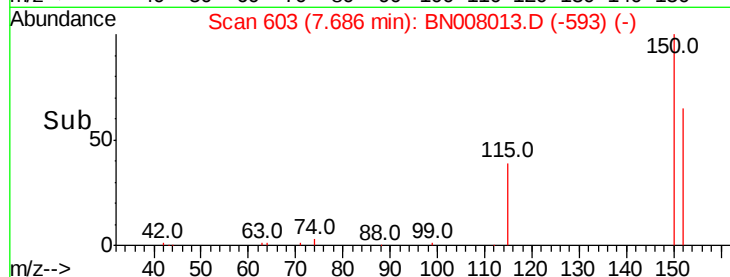
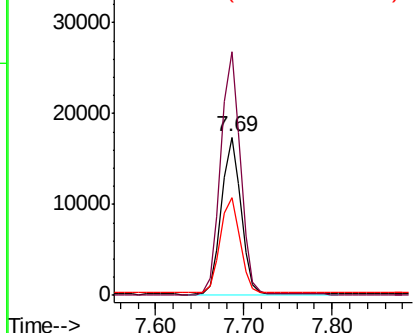


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

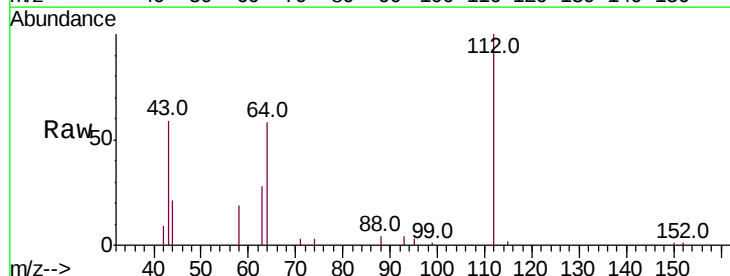
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.236 ng
RT: 5.32 min Scan# 309
Delta R.T. -0.00 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.0	46.6	70.0
63	28.4	23.1	34.7

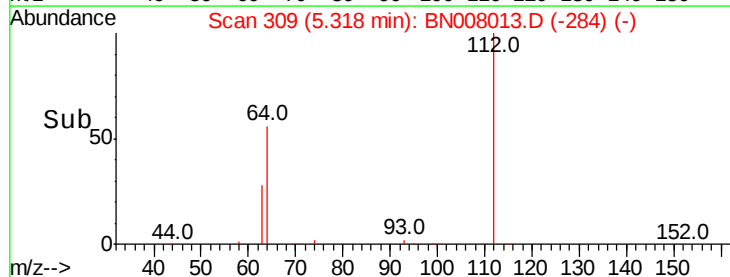
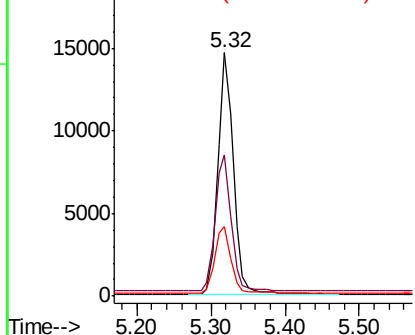


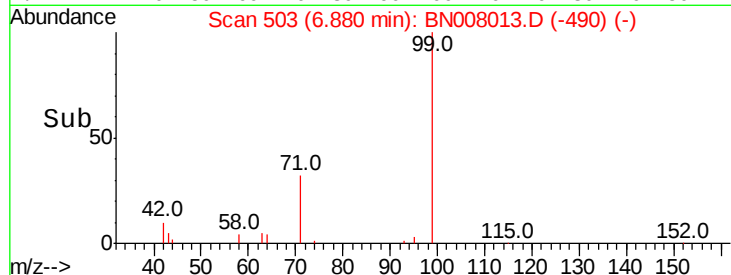
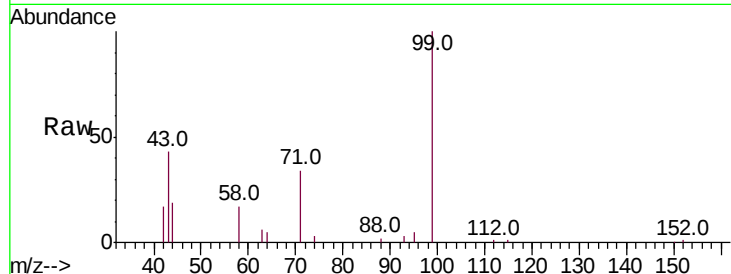
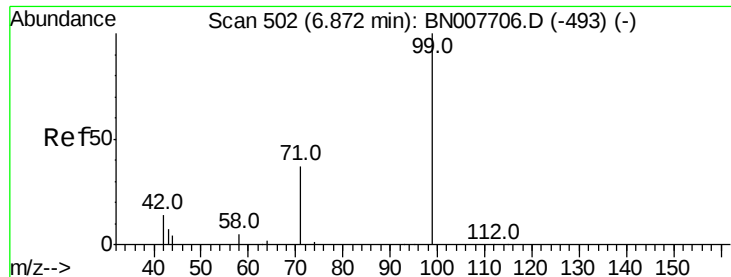
Abundance

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: 0.252 ng

RT: 6.88 min Scan# 503

Delta R.T. 0.01 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

Instrument :

BNA_N

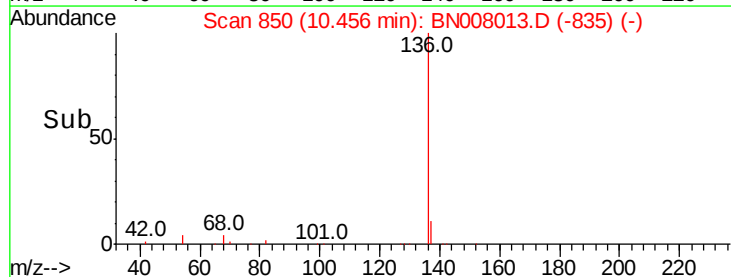
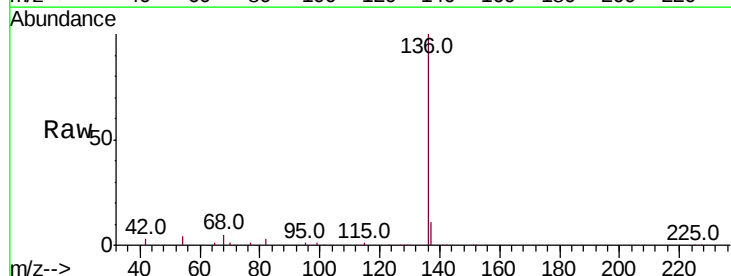
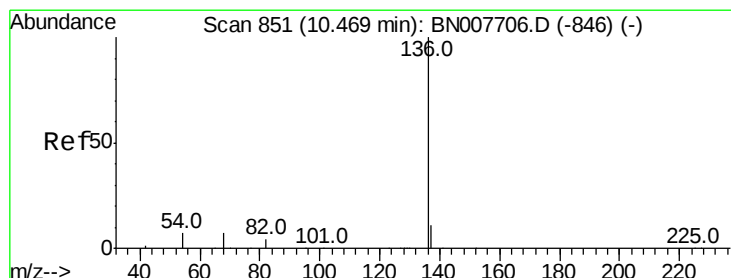
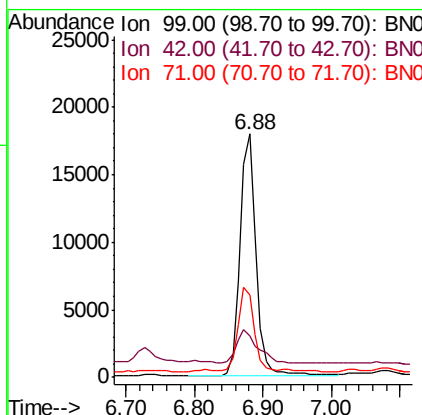
ClientSampleId :

EXT-024-SW071-092619

Tot Ion:	99	Resp:	28809
Ion Ratio	Lower	Upper	
99	100		
42	17.7	12.8	19.2
71	35.8	27.6	41.4

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#7

Naphthalene-d8

Concen: 0.400 ng

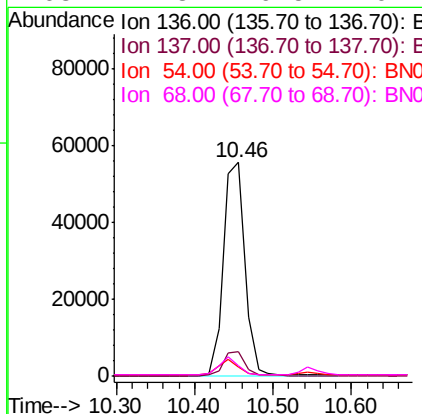
RT: 10.46 min Scan# 850

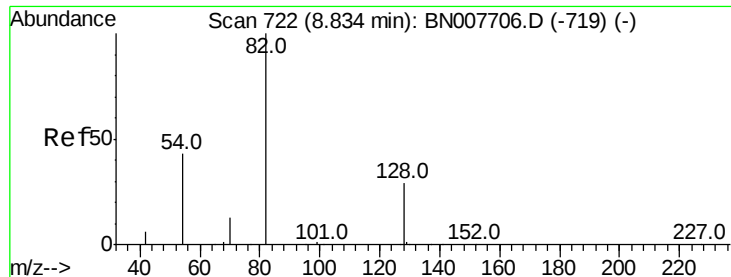
Delta R.T. -0.01 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

Tgt Ion:	136	Resp:	106145
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.2	13.8
54	4.1	5.8	8.8#
68	4.8	6.5	9.7#





#8

Nitrobenzene-d5

Concen: 0.265 ng

RT: 8.82 min Scan# 721

Delta R.T. -0.01 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

Instrument :

BNA_N

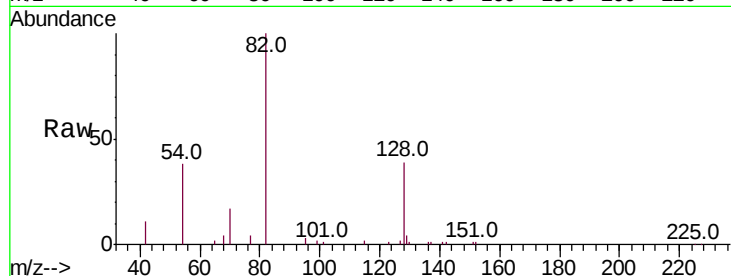
ClientSampleId :

EXT-024-SW071-092619

Tot Ion	82	Resp	24562
Ion Ratio	Lower	Upper	
82	100		
128	39.1	24.5	36.7#
54	37.8	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) (-)

8.82

15000

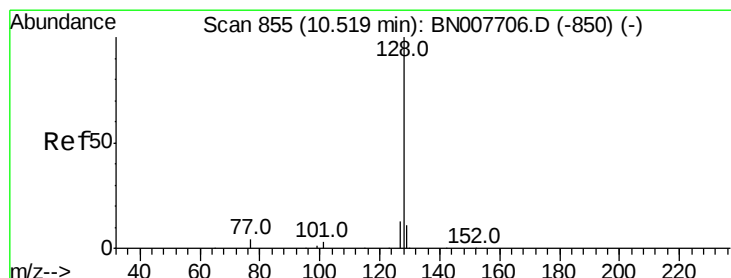
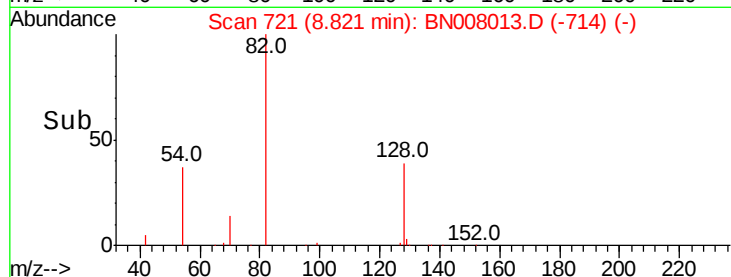
10000

5000

0

8.70 8.75 8.80 8.85 8.90

Time-->



#9

Naphthalene

Concen: 0.021 ng

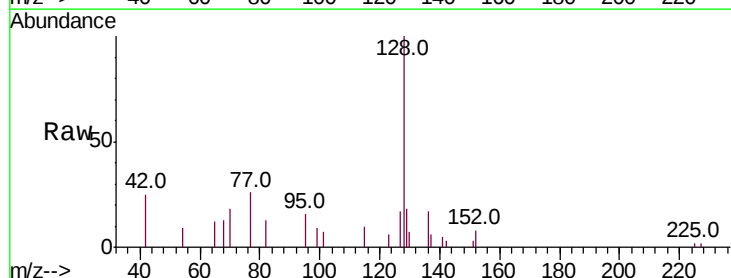
RT: 10.49 min Scan# 853

Delta R.T. -0.03 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

Tgt Ion	128	Resp	6266
Ion Ratio	Lower	Upper	
128	100		
129	18.1	9.1	13.7#
127	17.0	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) (-)

10.49

4000

3000

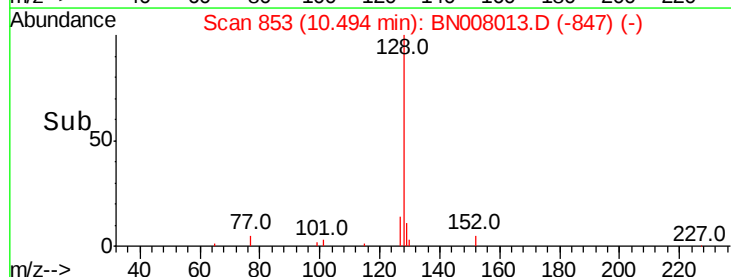
2000

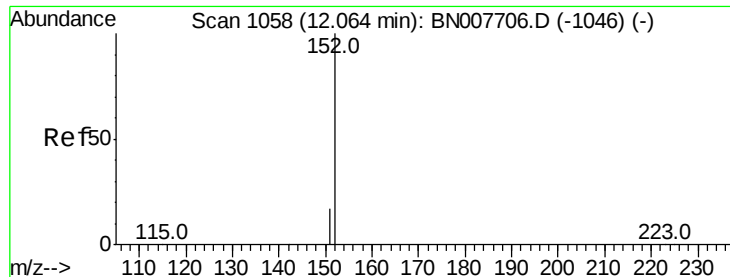
1000

0

10.40 10.60

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.260 ng

RT: 12.04 min Scan# 1053

Delta R.T. -0.02 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

Instrument :

BNA_N

ClientSampleId :

EXT-024-SW071-092619

Tot Ion:152 Resp: 46448

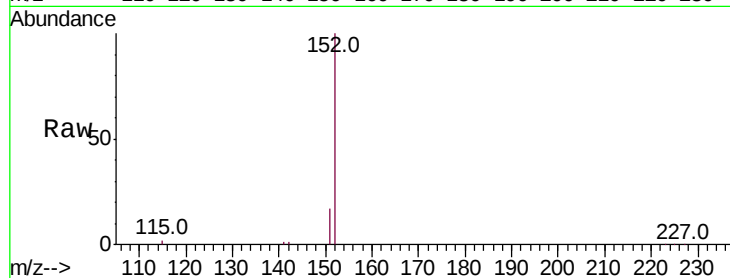
Ion Ratio Lower Upper

152 100

151 19.0 15.4 23.2

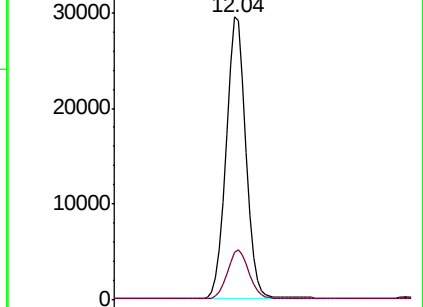
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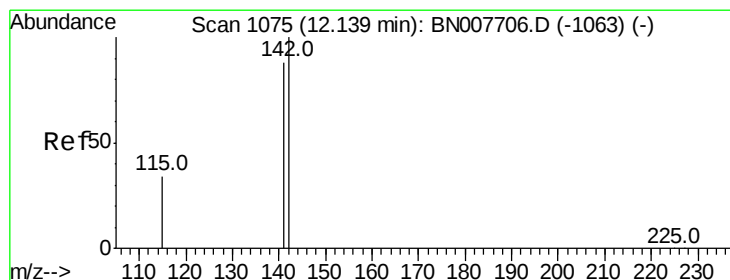
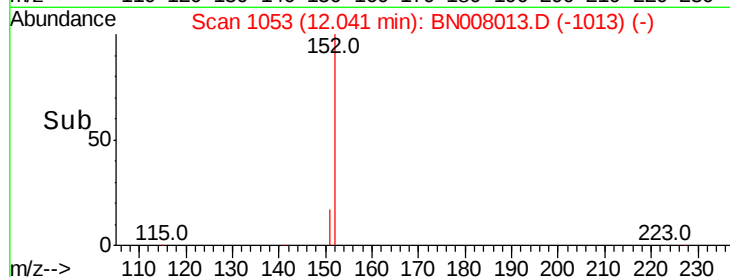


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



Time-->



#12

2-Methylnaphthalene

Concen: 0.022 ng

RT: 12.12 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

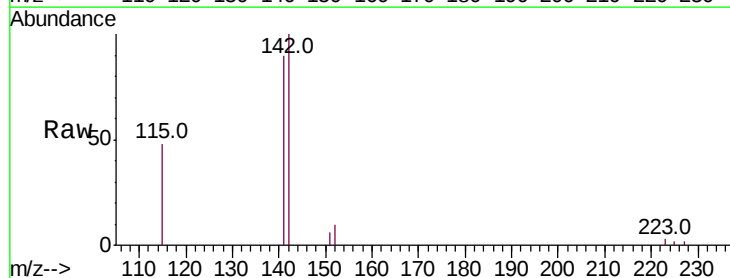
Tgt Ion:142 Resp: 4351

Ion Ratio Lower Upper

142 100

141 90.3 70.6 106.0

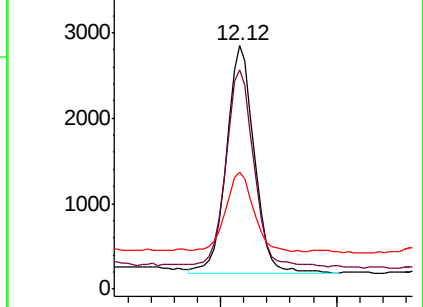
115 47.8 28.3 42.5#



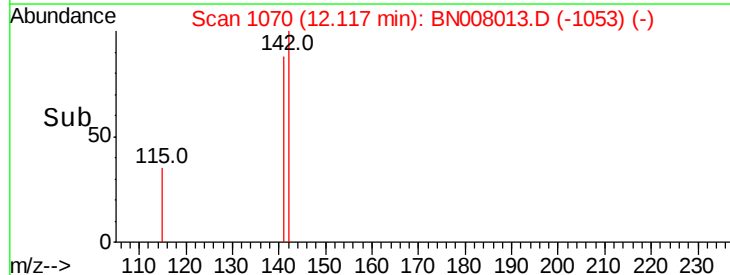
Abundance Ion 142.00 (141.70 to 142.70): E

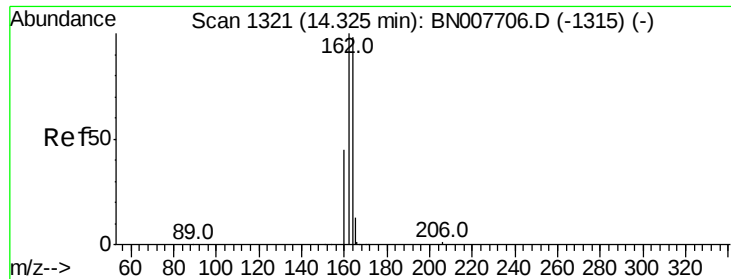
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->





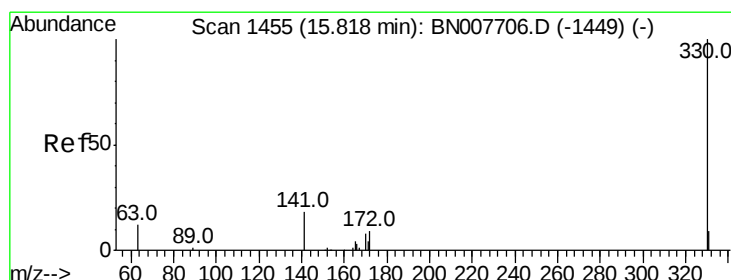
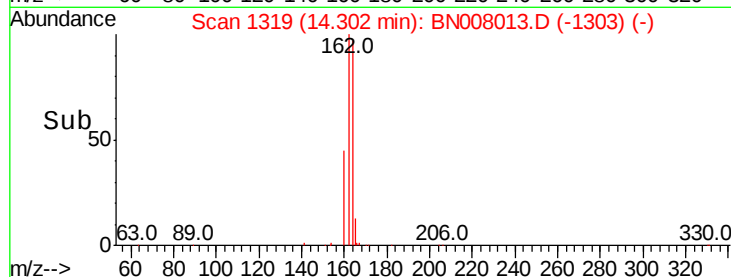
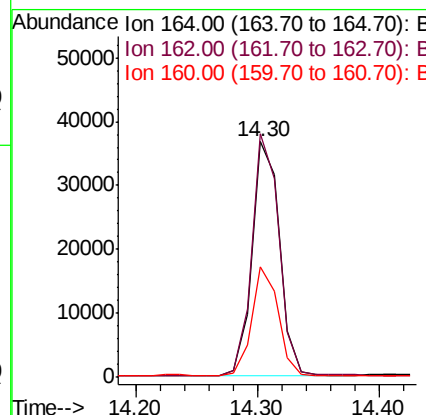
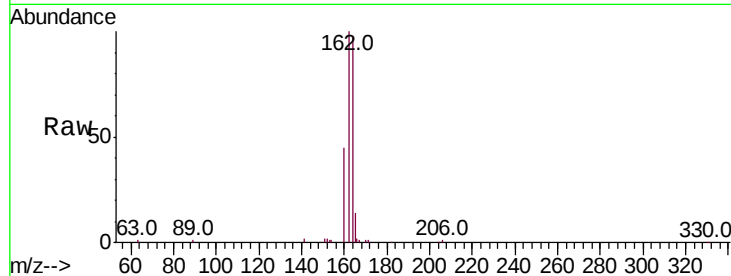
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.30 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW071-092619

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.7	122.5
160	46.8	37.0	55.4

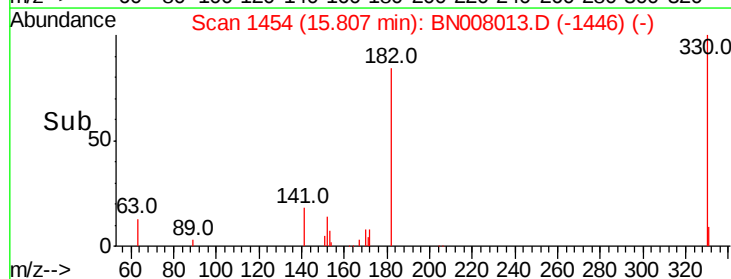
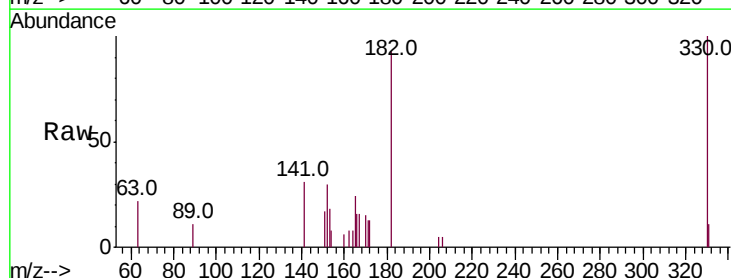
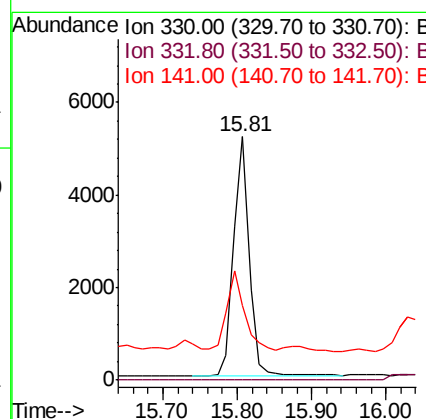
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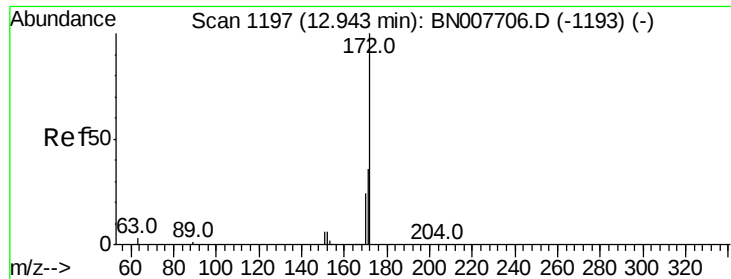
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#14
2,4,6-Tribromophenol
Concen: 0.240 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.1	28.7	43.1





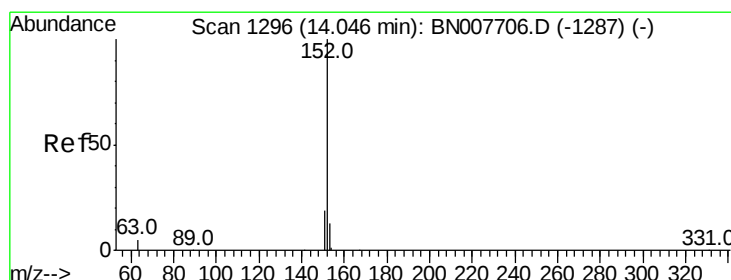
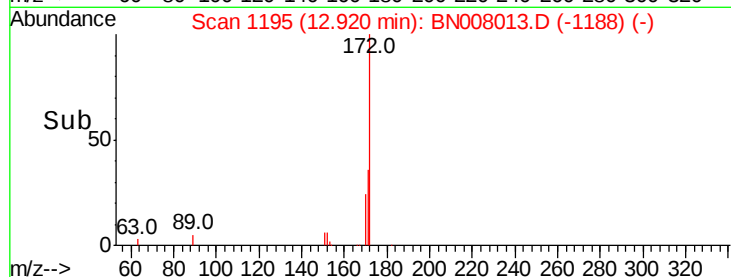
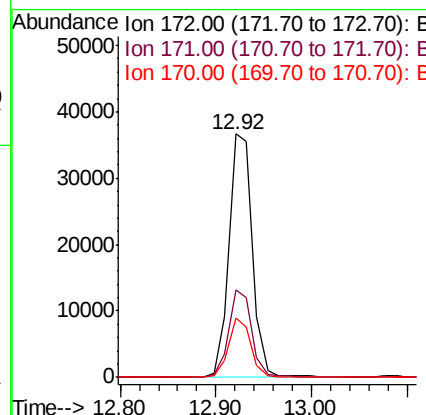
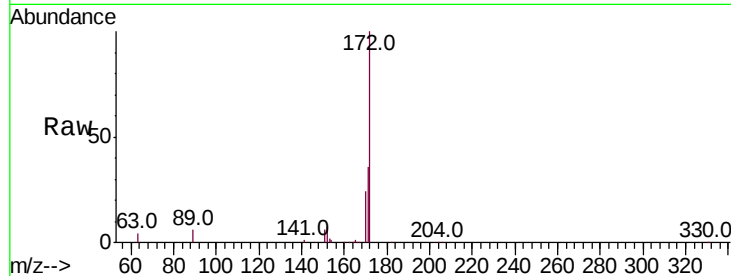
#15
2-Fluorobiphenyl
Concen: 0.259 ng
RT: 12.92 min Scan# 1195
Delta R.T. -0.02 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW071-092619

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	24.4	19.5	29.3

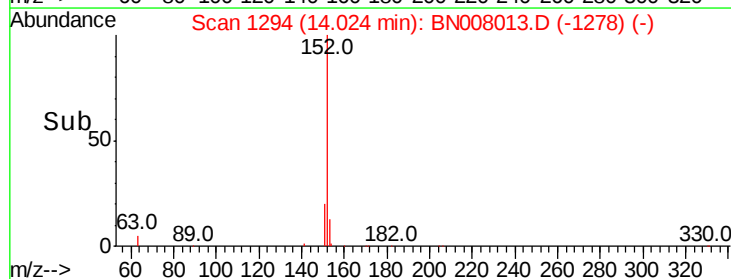
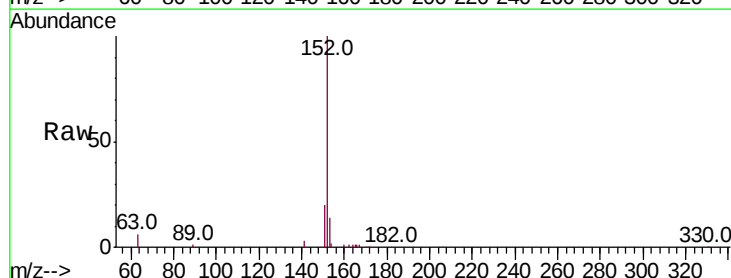
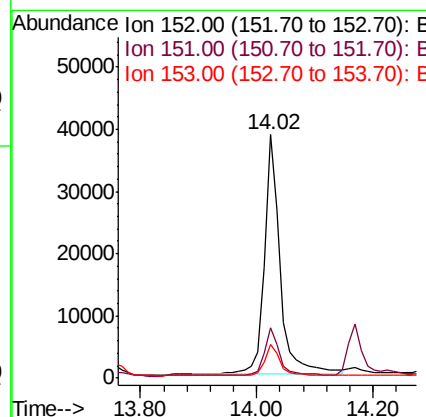
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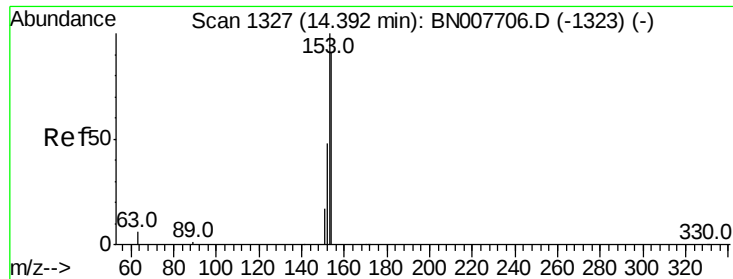
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#16
Acenaphthylene
Concen: 0.240 ng
RT: 14.02 min Scan# 1294
Delta R.T. -0.02 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.5	23.3
153	12.5	10.4	15.6





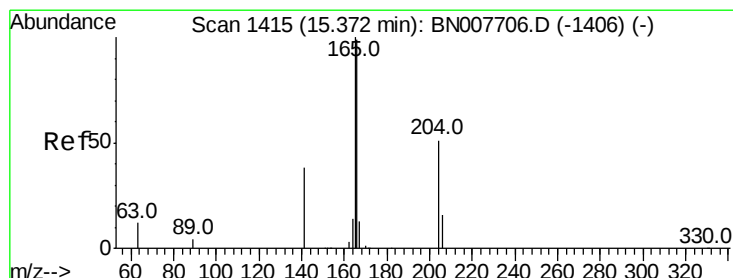
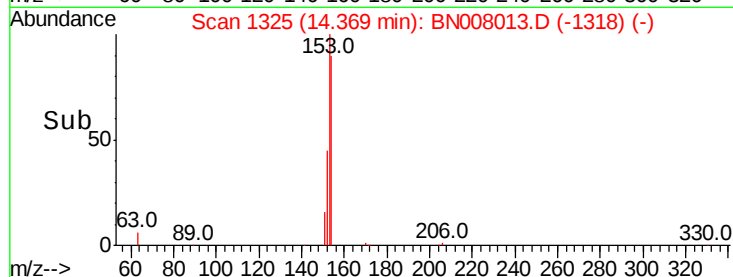
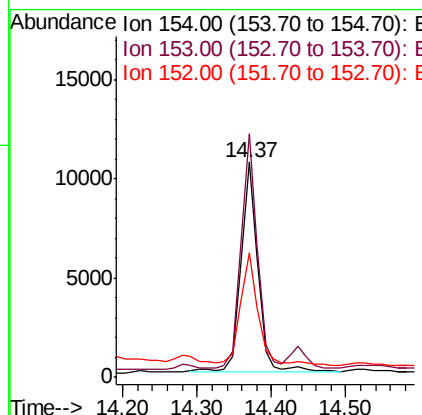
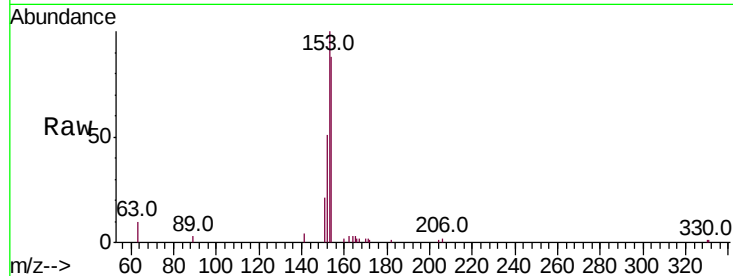
#17
Acenaphthene
Concen: 0.083 ng
RT: 14.37 min Scan# 1325
Delta R.T. -0.02 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW071-092619

Tot Ion	Ratio	Lower	Upper
154	100		
153	108.0	87.0	130.4
152	50.7	42.7	64.1

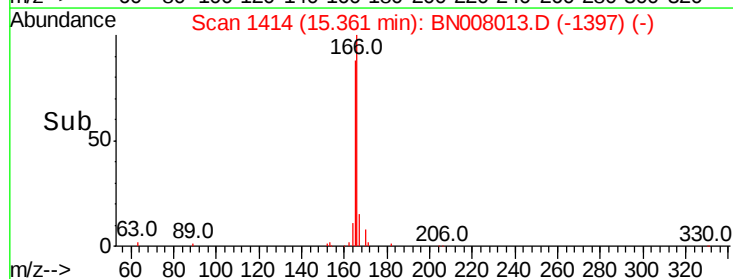
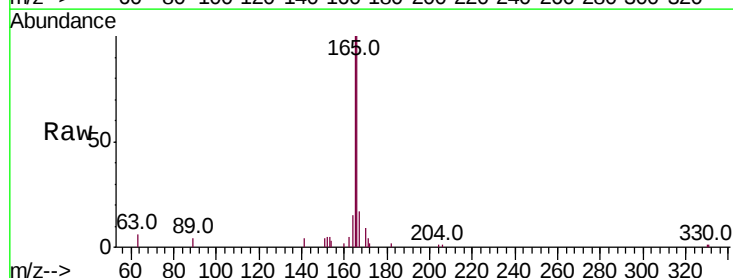
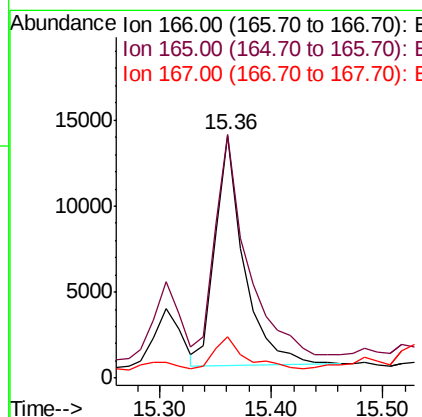
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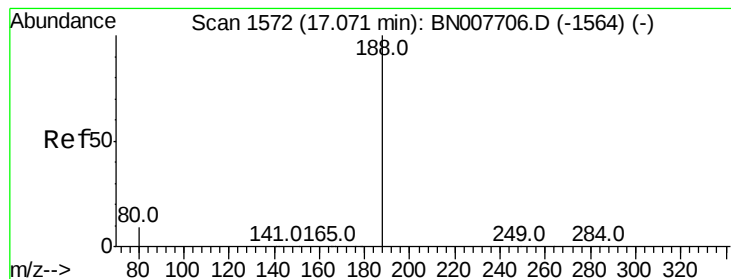
mohammad
10/7/2019 8:45:35 AM



#18
Fluorene
Concen: 0.095 ng
RT: 15.36 min Scan# 1414
Delta R.T. -0.01 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
166	100		
165	107.4	78.0	117.0
167	15.4	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: BN008013.D

Acq: 04 Oct 2019 20:58

Instrument :

BNA_N

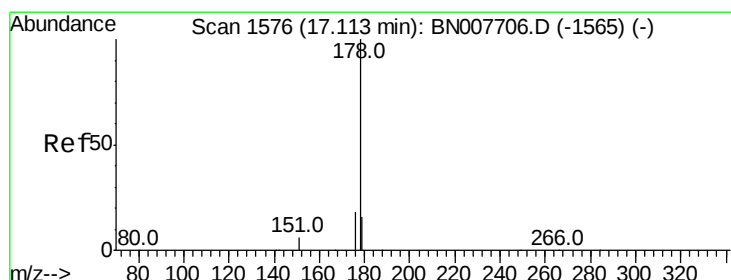
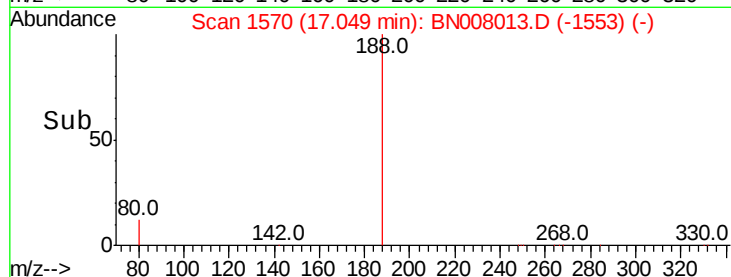
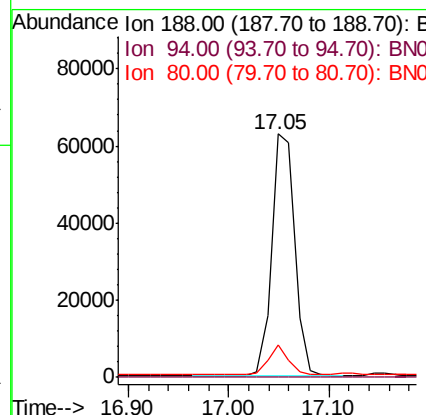
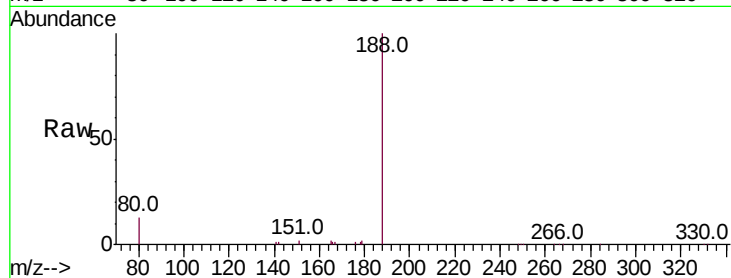
ClientSampleId :

EXT-024-SW071-092619

Tot Ion:	188	Resp:	100242
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.2	7.4	11.2#

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#23

Phenanthrene

Concen: 1.687 ng

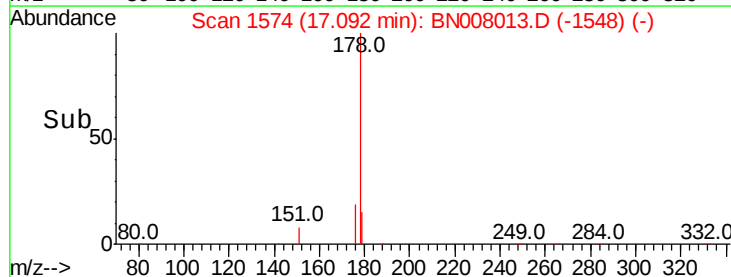
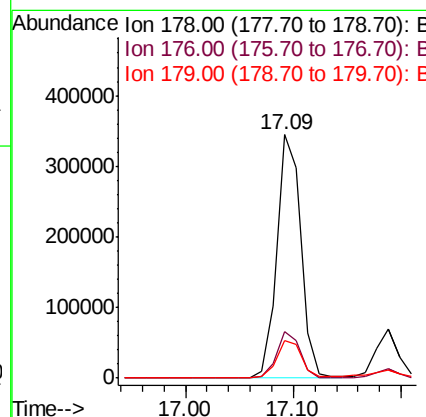
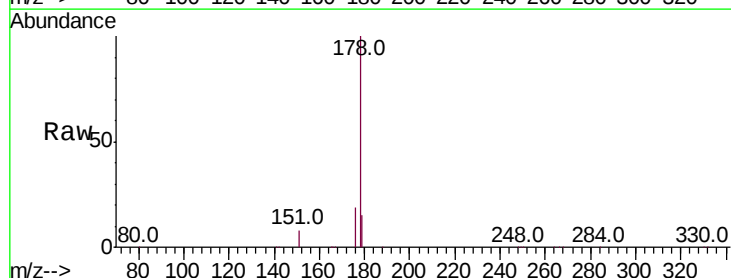
RT: 17.09 min Scan# 1574

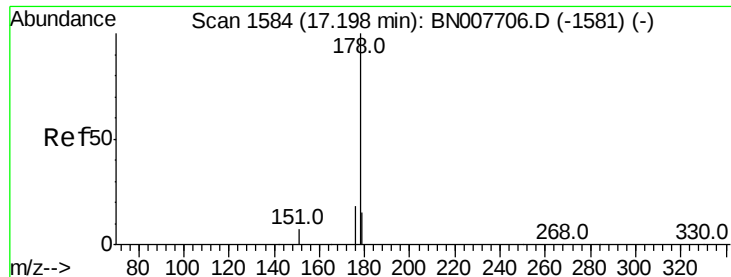
Delta R.T. -0.02 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

Tgt Ion:	178	Resp:	526826
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.9	22.3
179	15.6	12.5	18.7





#24

Anthracene

Concen: 0.329 ng

RT: 17.19 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

Instrument :

BNA_N

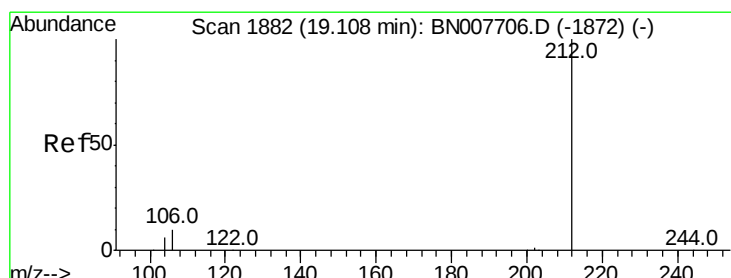
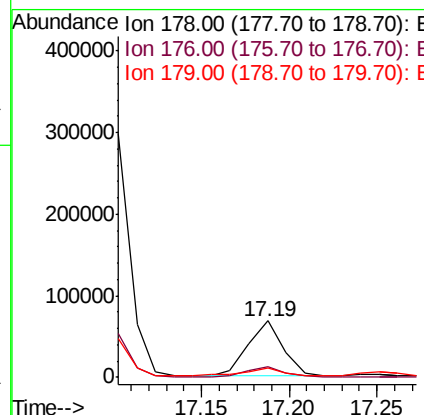
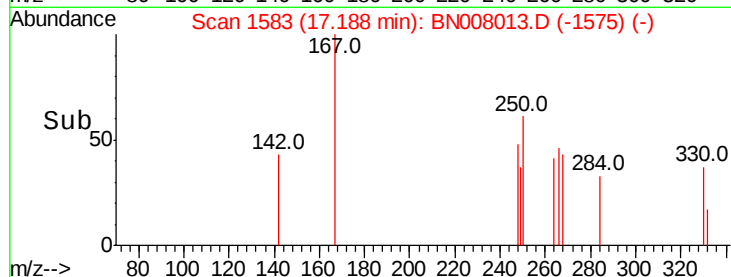
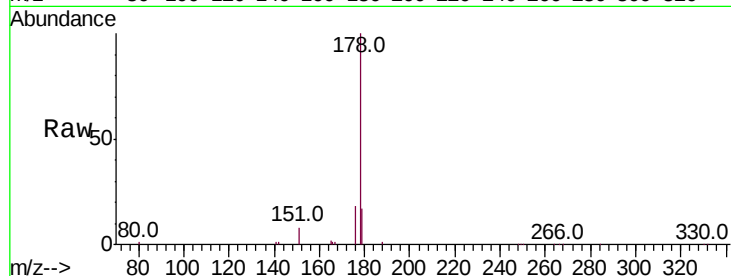
ClientSampleId :

EXT-024-SW071-092619

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	18.8	12.2	18.4

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#25

Fluoranthene-d10

Concen: 0.253 ng

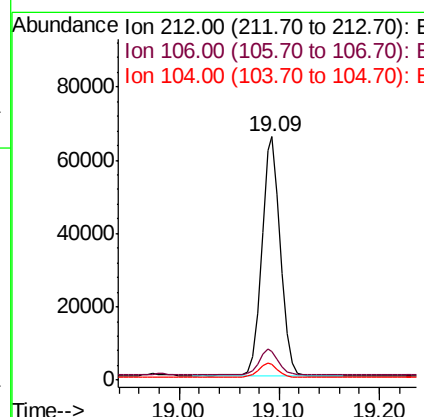
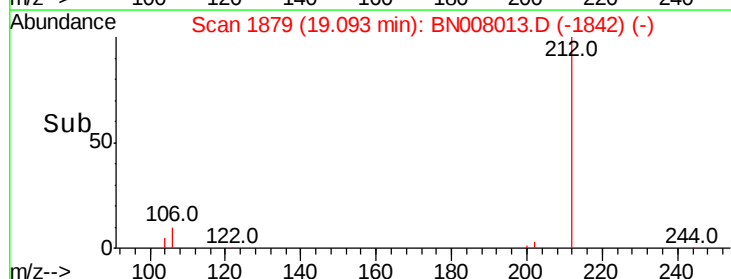
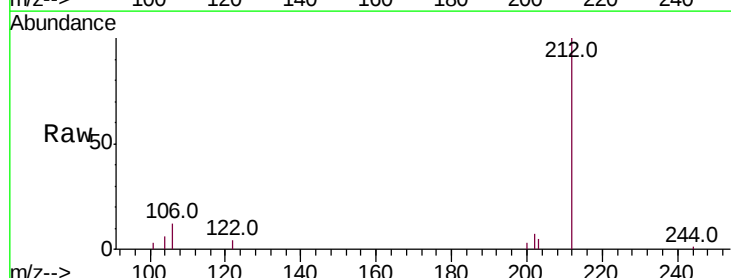
RT: 19.09 min Scan# 1879

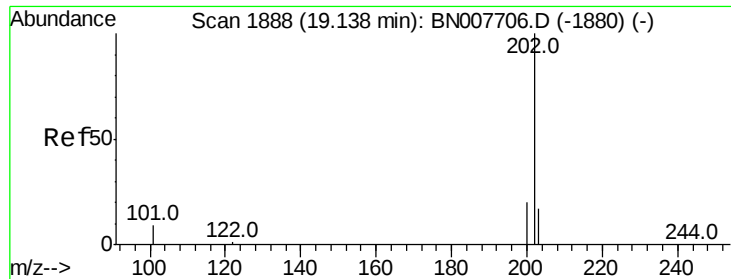
Delta R.T. -0.01 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.4	14.0
104	6.2	5.3	7.9





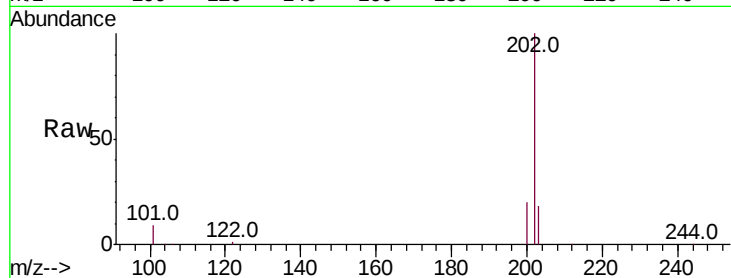
#26
Fluoranthene
 Concen: 3.142 ng
 RT: 19.12 min Scan# 1885
 Delta R.T. -0.01 min
 Lab File: BN008013.D
 Acq: 04 Oct 2019 20:58

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW071-092619

Tot Ion	Ratio	Lower	Upper
202	100		
101	9.9	8.4	12.6
203	17.7	13.8	20.8

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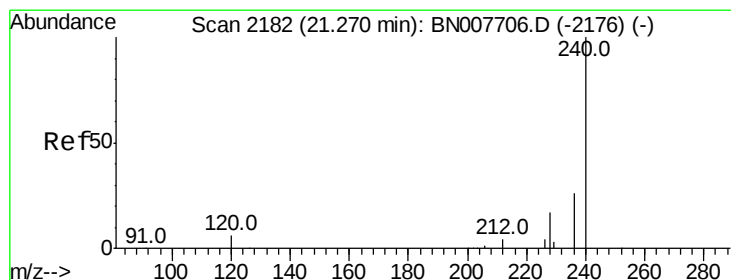
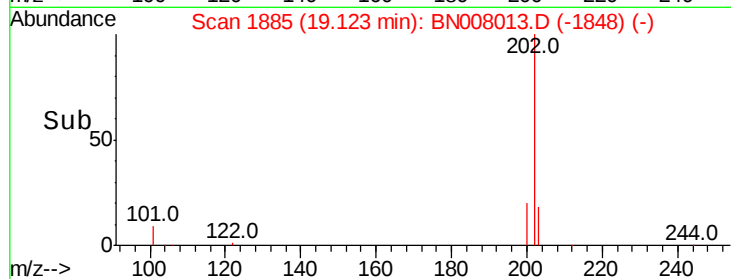
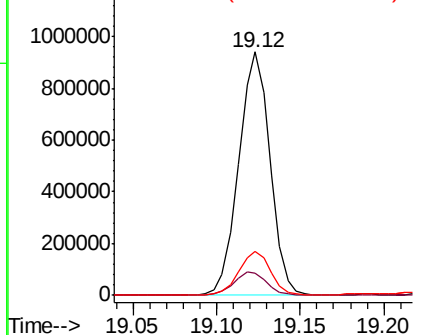


Abundance

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: 21.25 min Scan# 2180
 Delta R.T. -0.02 min
 Lab File: BN008013.D
 Acq: 04 Oct 2019 20:58

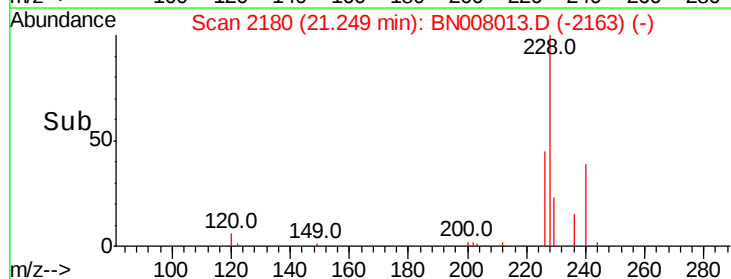
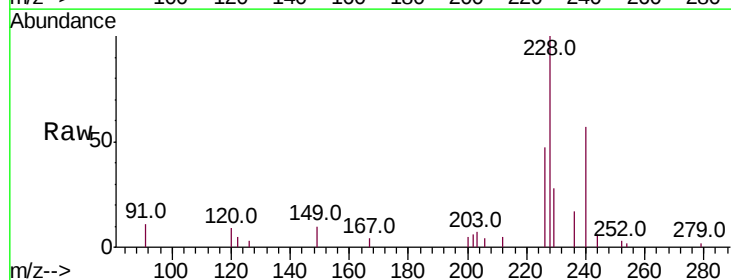
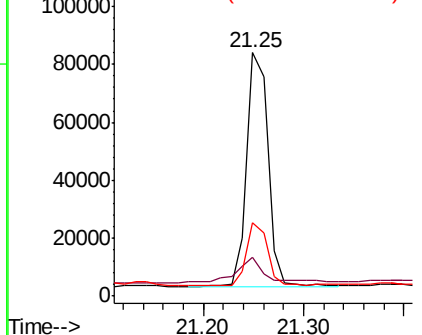
Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.8	5.4	8.2#
236	30.1	21.0	31.4

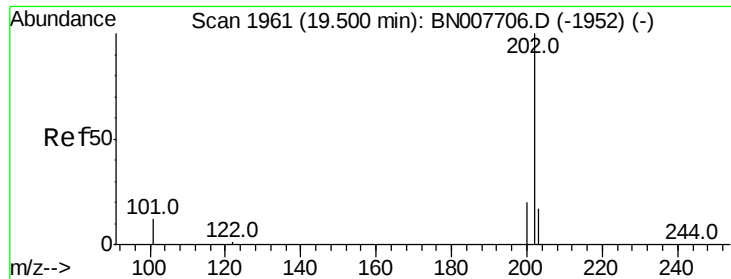
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





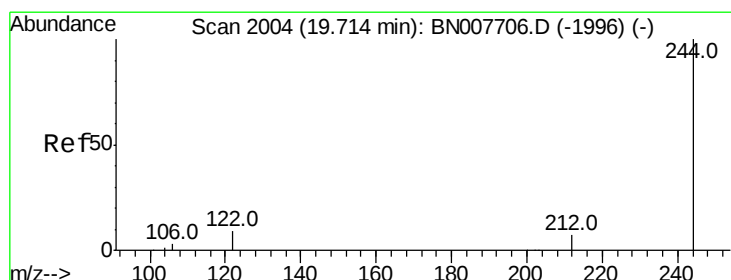
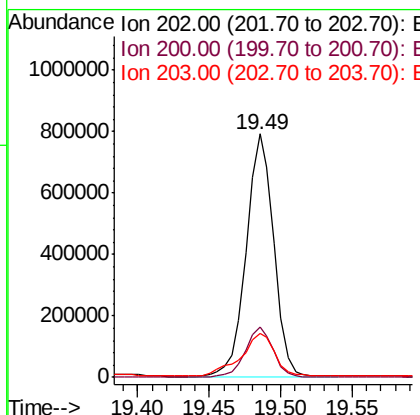
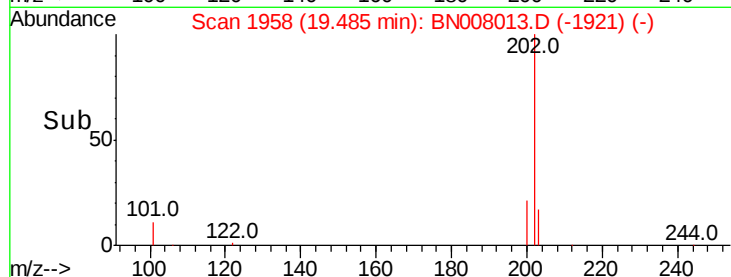
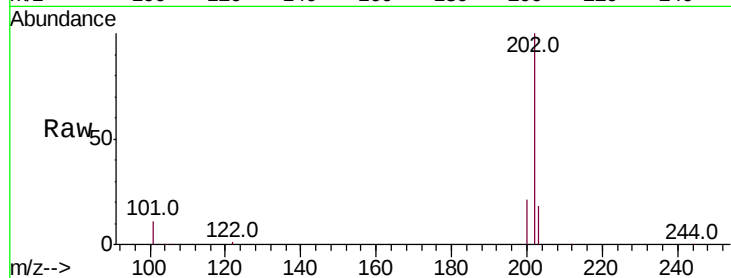
#28
Pvrene
Concen: 2.581 ng
RT: 19.49 min Scan# 1958
Delta R.T. -0.01 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW071-092619

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.4	24.6
203	21.6	14.1	21.1#

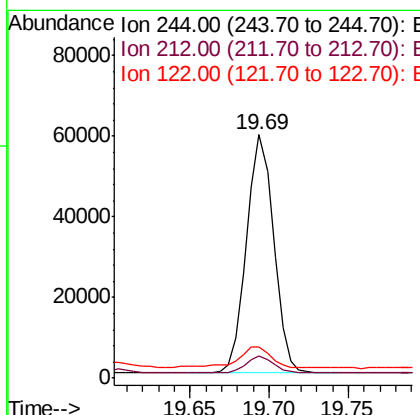
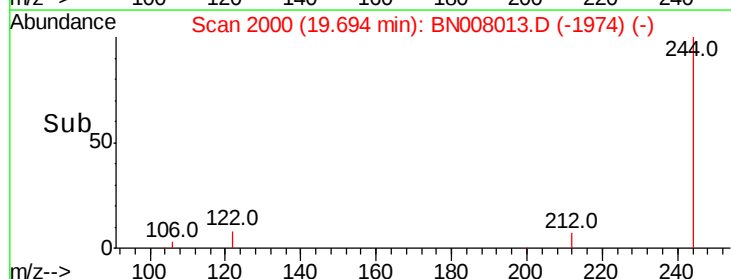
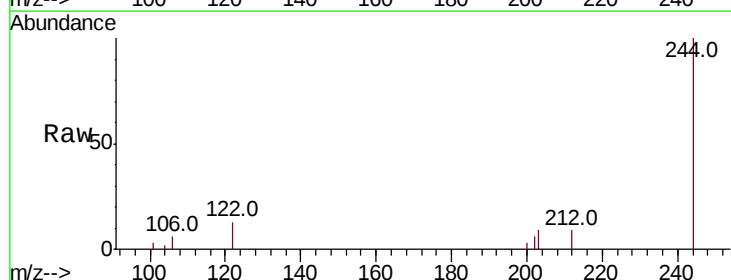
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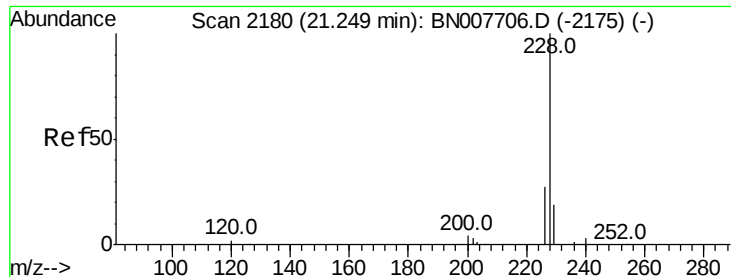
mohammad
10/7/2019 8:45:35 AM



#29
Terphenyl-d14
Concen: 0.238 ng
RT: 19.69 min Scan# 2000
Delta R.T. -0.02 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.9	5.9	8.9#
122	12.9	7.4	11.2#





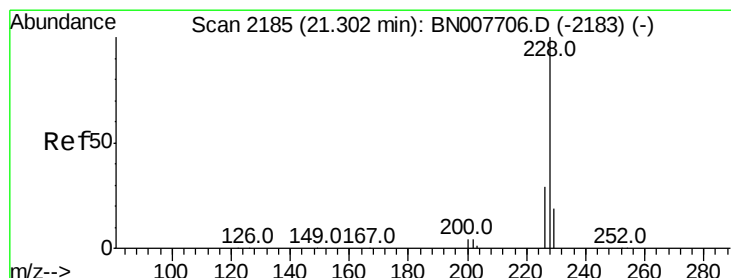
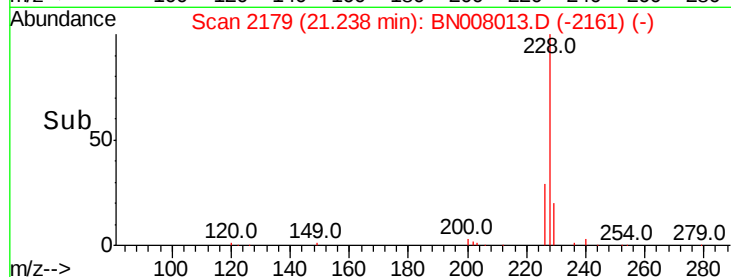
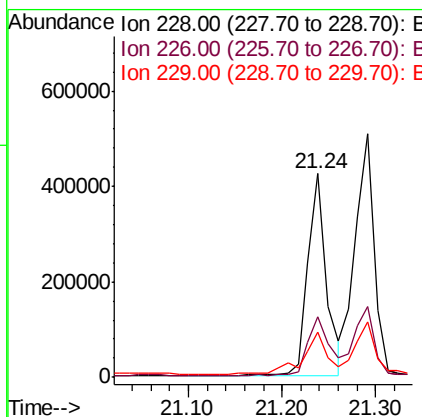
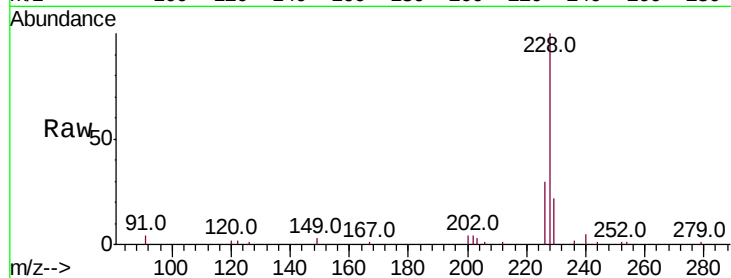
#30
Benzo(a)anthracene
Concen: 1.314 ng
RT: 21.24 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW071-092619

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.1	33.1
229	22.0	15.8	23.6

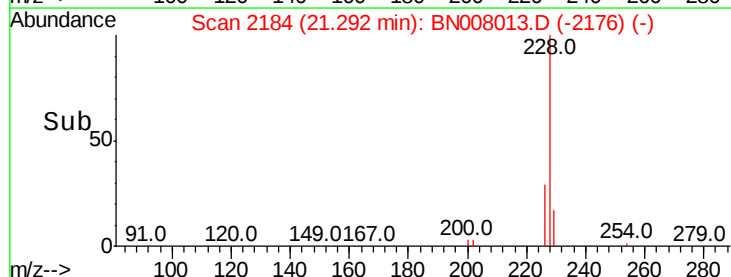
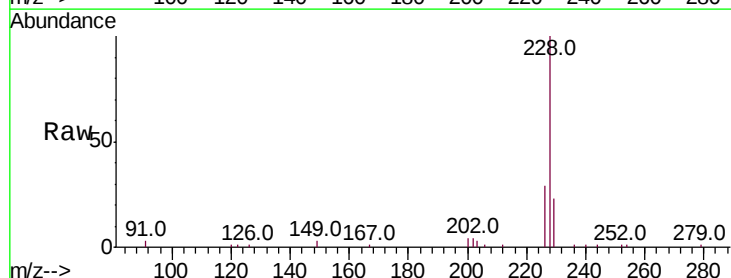
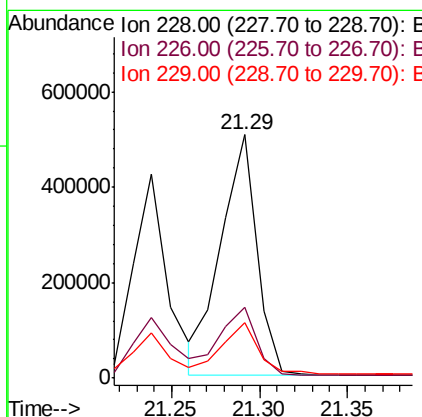
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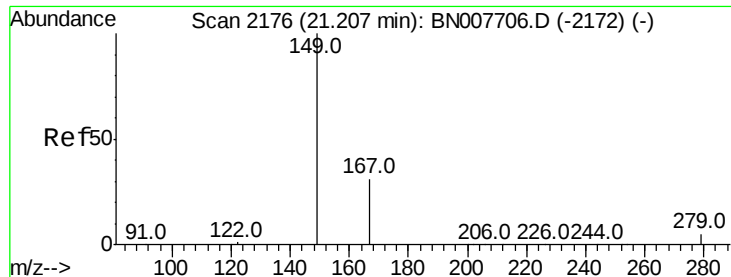
mohammad
10/7/2019 8:45:35 AM



#31
Chrysene
Concen: 1.659 ng
RT: 21.29 min Scan# 2184
Delta R.T. -0.01 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.3	23.9	35.9
229	22.9	15.8	23.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.291 ng

RT: 21.17 min Scan# 2173

Delta R.T. -0.03 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

Instrument :

BNA_N

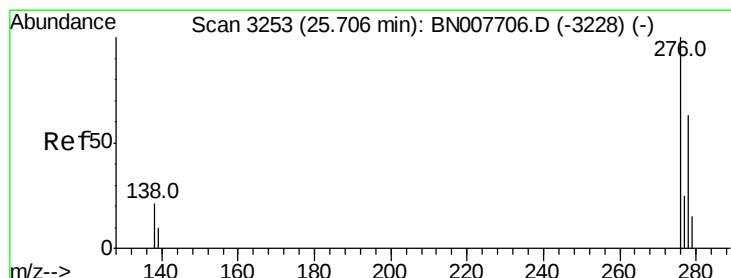
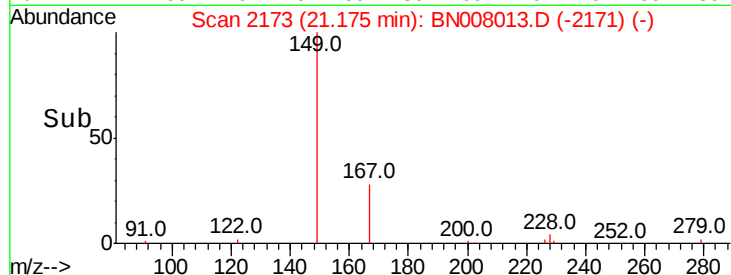
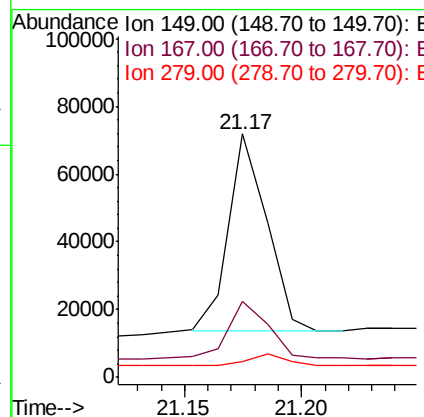
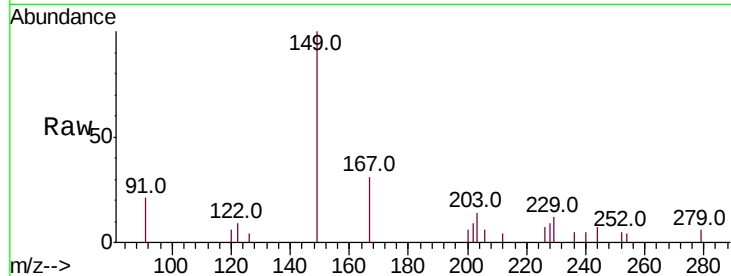
ClientSampleId :

EXT-024-SW071-092619

Tot Ion:	149	Resp:	66230
Ion Ratio	Lower	Upper	
149	100		
167	29.2	23.7	35.5
279	5.7	4.2	6.2

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#33

Indeno(1,2,3-cd)pyrene

Concen: 1.053 ng

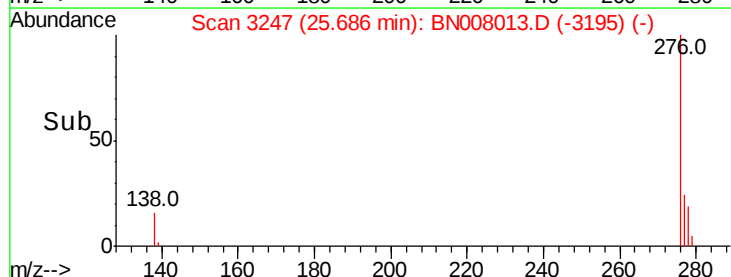
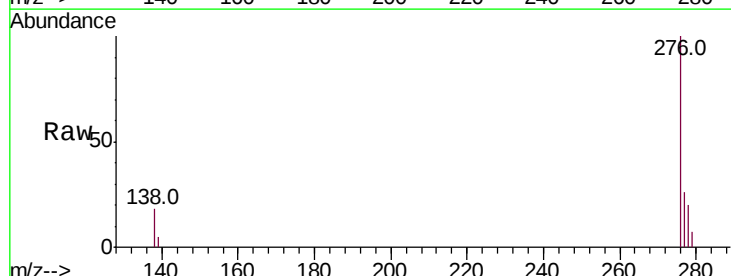
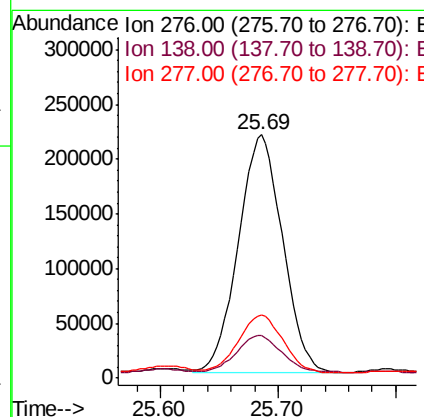
RT: 25.69 min Scan# 3247

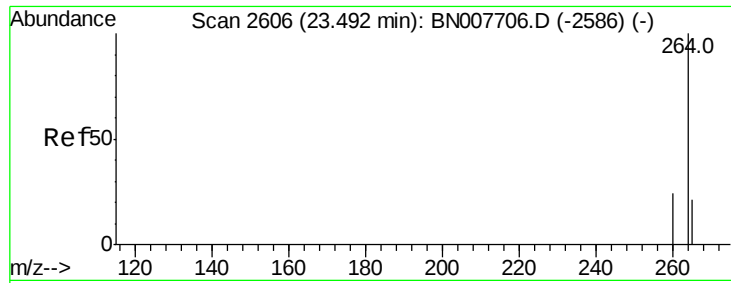
Delta R.T. -0.02 min

Lab File: BN008013.D

Acq: 04 Oct 2019 20:58

Tgt Ion:	276	Resp:	567649
Ion Ratio	Lower	Upper	
276	100		
138	16.4	17.1	25.7#
277	24.6	20.0	30.0





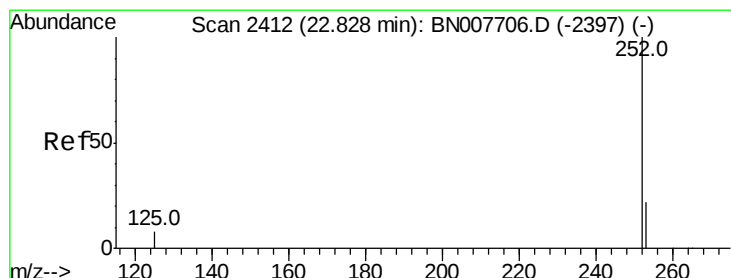
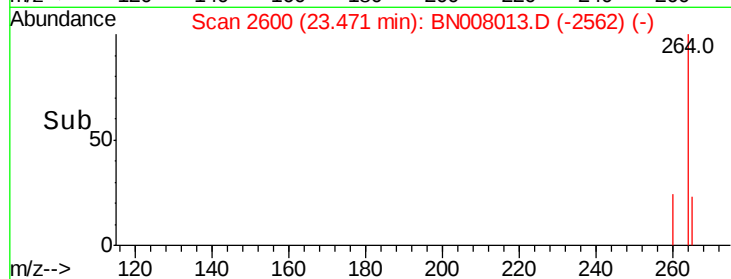
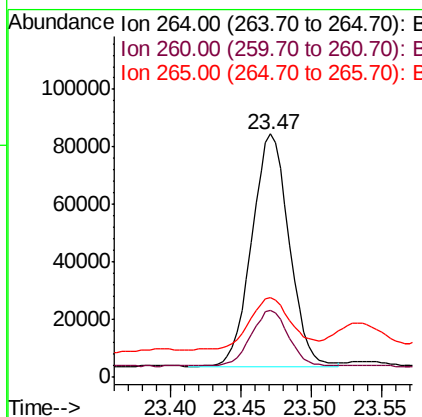
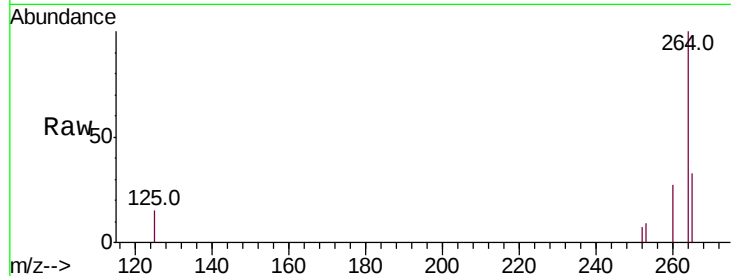
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.47 min Scan# 2600
Delta R.T. -0.02 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW071-092619

Tot Ion:	264	Resp:	148835
Ion Ratio	Lower	Upper	
264	100		
260	27.3	19.3	28.9
265	32.6	26.9	40.3

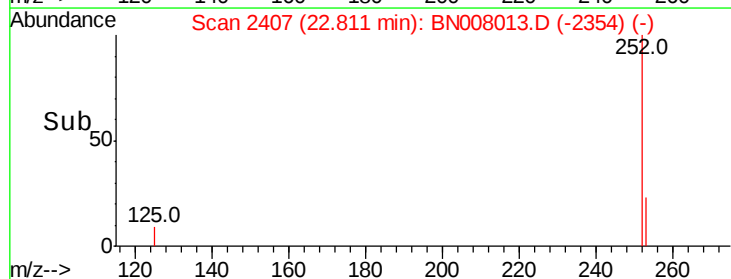
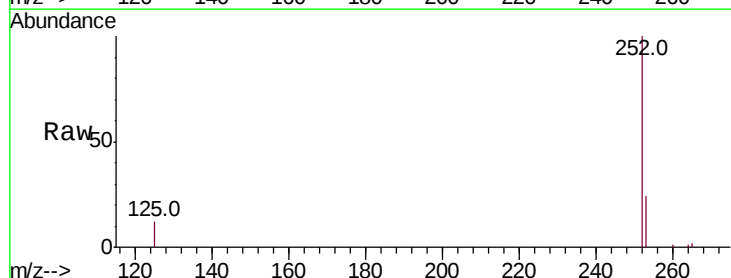
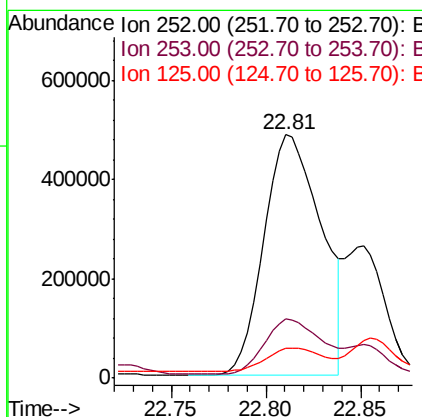
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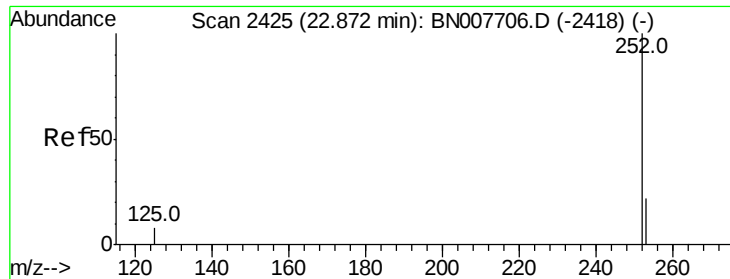
mohammad
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#35
Benzo(b)fluoranthene
Concen: 1.972 ng
RT: 22.81 min Scan# 2407
Delta R.T. -0.02 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Tgt Ion:	252	Resp:	1018929
Ion Ratio	Lower	Upper	
252	100		
253	24.1	18.3	27.5
125	12.1	8.2	12.4





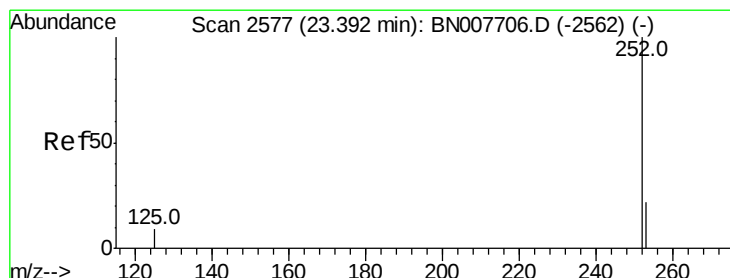
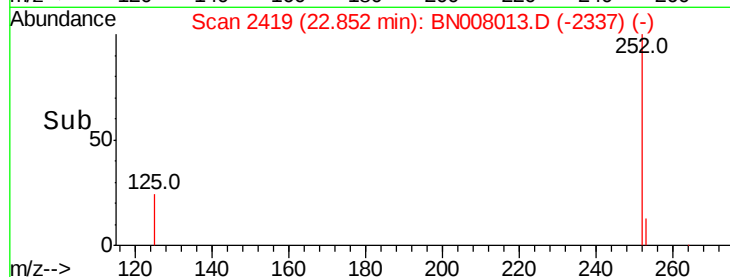
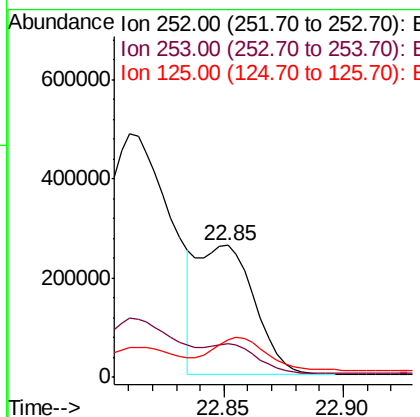
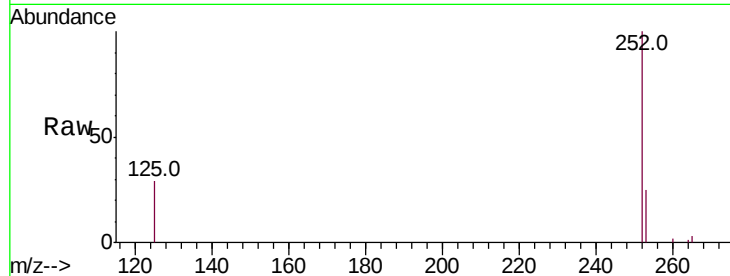
#36
Benzo(k)fluoranthene
Concen: 0.842 ng m
RT: 22.85 min Scan# 2419
Delta R.T. -0.02 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Instrument :
BNA_N
ClientSampleId :
EXT-024-SW071-092619

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.2	18.5	27.7
125	28.6	8.4	12.6

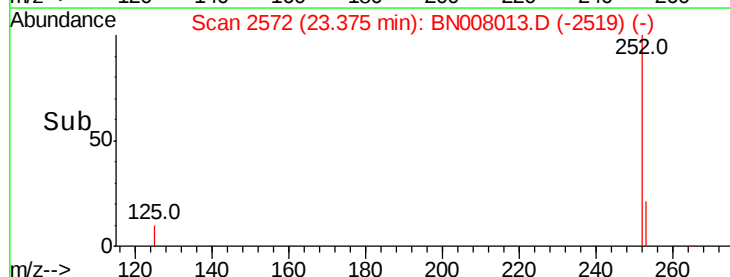
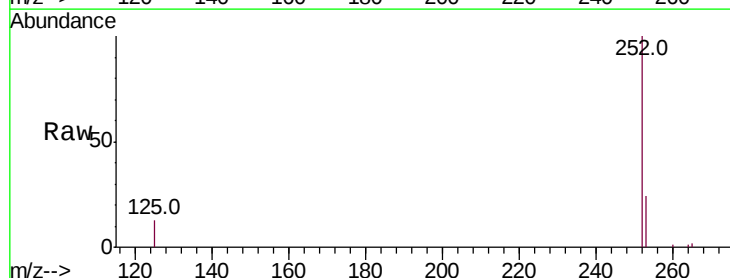
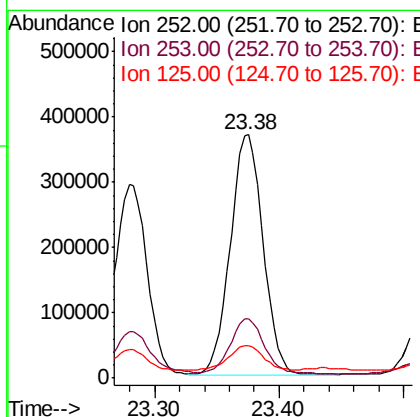
Manual Integrations
APPROVED

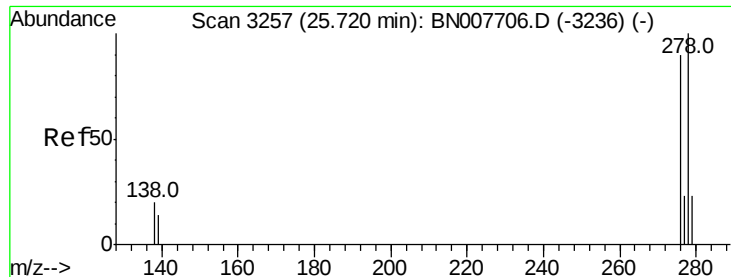
mohammad
10/7/2019 8:45:35 AM



#37
Benzo(a)pyrene
Concen: 1.379 ng
RT: 23.38 min Scan# 2572
Delta R.T. -0.02 min
Lab File: BN008013.D
Acq: 04 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.6	27.8
125	13.3	9.4	14.0





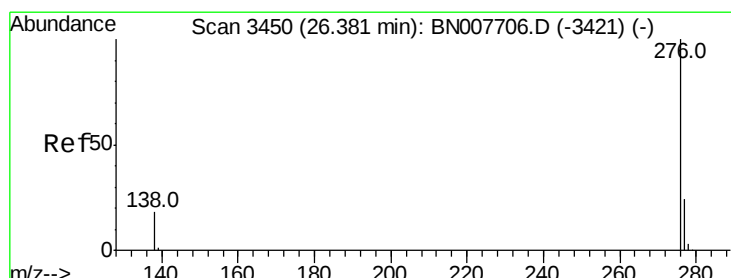
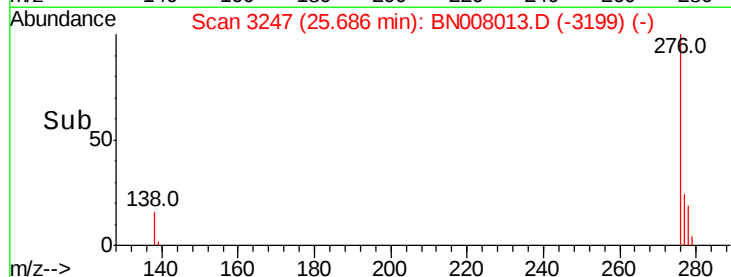
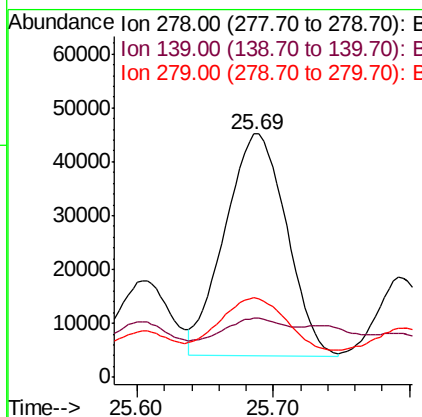
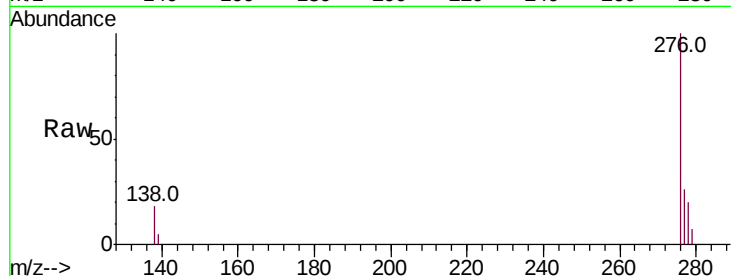
#38
 Dibenzo(a,h)anthracene
 Concen: 0.260 ng
 RT: 25.69 min Scan# 3247
 Delta R.T. -0.03 min
 Lab File: BN008013.D
 Acq: 04 Oct 2019 20:58

Instrument :
 BNA_N
 ClientSampleId :
 EXT-024-SW071-092619

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.4	11.8	17.6#
279	32.7	19.4	29.2#

Manual Integrations
 APPROVED

mohammad
 10/7/2019 8:45:35 AM



#39
 Benzo(g,h,i)perylene
 Concen: 1.146 ng
 RT: 26.36 min Scan# 3445
 Delta R.T. -0.02 min
 Lab File: BN008013.D
 Acq: 04 Oct 2019 20:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	19.8	29.8
138	18.3	15.1	22.7

