

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082319\
 Data File : BN007346.D
 Acq On : 24 Aug 2019 02:49
 Operator : HP/JU
 Sample : K4471-01 20X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S703-N-0.0-0.5-082119-FD

Manual Integrations
 APPROVED

mohammad
 8/29/2019 7:59:41 AM

Quant Time: Aug 24 07:54:07 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Sat Aug 24 00:38:17 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	4328	0.40	ng	0.00
7) Naphthalene-d8	10.16	136	18281	0.40	ng	0.00
13) Acenaphthene-d10	14.05	164	9991	0.40	ng	0.00
19) Phenanthrene-d10	16.80	188	21915	0.40	ng	0.00
27) Chrysene-d12	21.02	240	22127	0.40	ng	0.00
34) Perylene-d12	23.12	264	24610	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.04	112	403	-0.00	ng	0.00
5) Phenol-d6	6.60	99	446	-0.01	ng	0.00
8) Nitrobenzene-d5	8.53	82	391	0.02	ng	0.00
11) 2-Methylnaphthalene-d10	11.76	152	387	0.01	ng	0.00
14) 2,4,6-Tribromophenol	15.55	330	133	0.03	ng	0.00
15) 2-Fluorobiphenyl	12.66	172	842	0.02	ng	0.00
25) Fluoranthene-d10	18.84	212	796	0.01	ng	0.00
29) Terphenyl-d14	19.46	244	1275	0.02	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.20	128	4488	0.086	ng	# 96
12) 2-Methylnaphthalene	11.84	142	2018	0.057	ng	# 94
16) Acenaphthylene	13.77	152	1749	0.030	ng	# 91
17) Acenaphthene	14.11	154	20494	0.593	ng	98
18) Fluorene	15.10	166	22813	0.521	ng	98
22) Pentachlorophenol	16.46	266	108	0.024	ng	89
23) Phenanthrene	16.84	178	375709	5.700	ng	99
24) Anthracene	16.93	178	61874	0.933	ng	# 91
26) Fluoranthene	18.87	202	622618	7.356	ng	100
28) Pvrene	19.24	202	507187	5.698	ng	# 95
30) Benzo(a)anthracene	21.00	228	265726	3.058	ng	99
31) Chrysene	21.05	228	235336	2.806	ng	98
32) Bis(2-ethylhexyl)phthalate	20.97	149	2249m	0.021	ng	
33) Indeno(1,2,3-cd)pyrene	25.18	276	151557	1.500	ng	98
35) Benzo(b)fluoranthene	22.51	252	305851m	3.430	ng	
36) Benzo(k)fluoranthene	22.54	252	118001m	1.339	ng	
37) Benzo(a)pvrene	23.03	252	213379m	2.515	ng	
38) Dibenzo(a,h)anthracene	25.19	278	36996	0.437	ng	96
39) Benzo(g,h,i)perylene	25.81	276	144119	1.708	ng	96

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

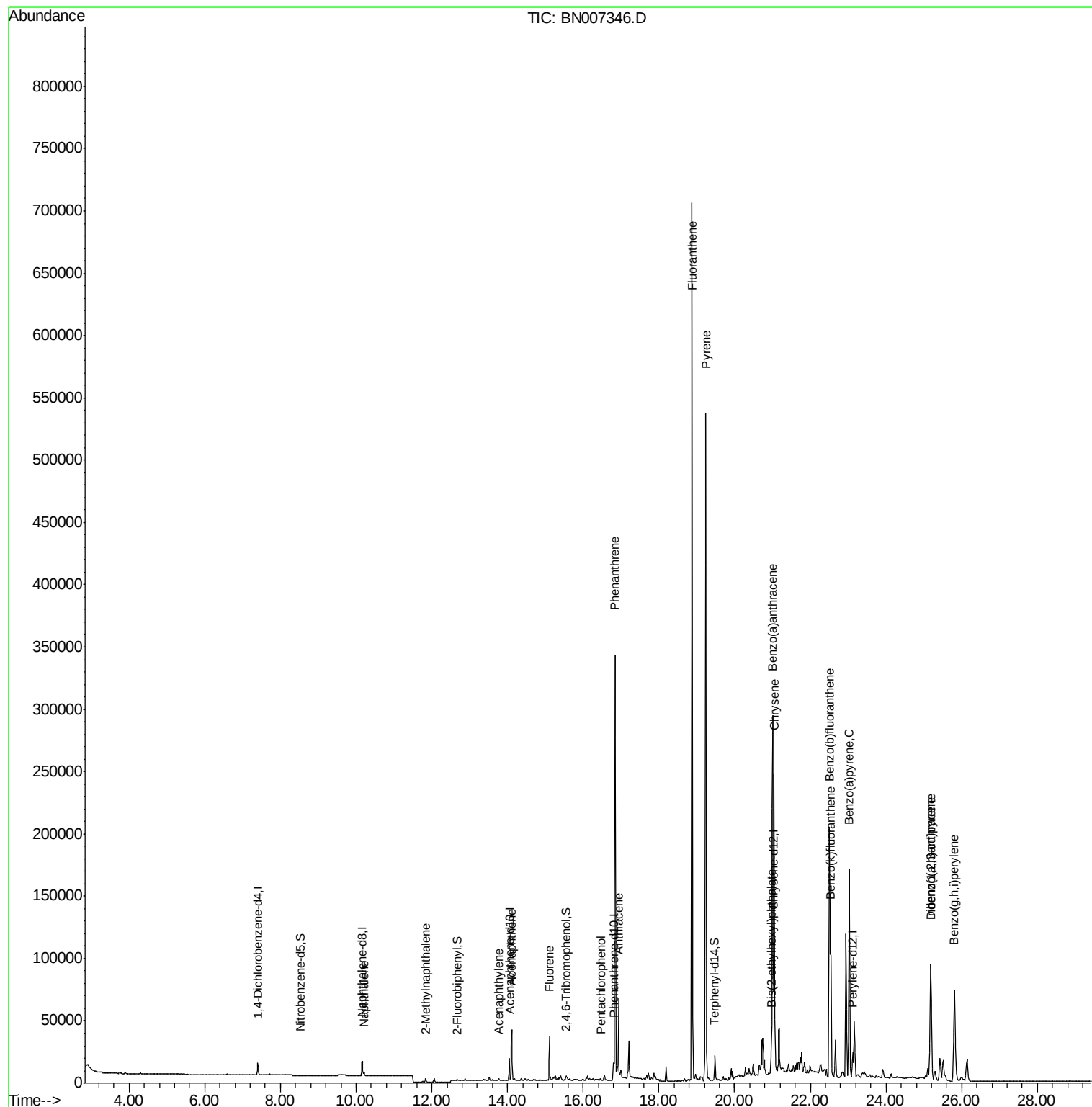
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082319\
Data File : BN007346.D
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Misc :
ALS Vial : 14 Sample Multiplier: 1

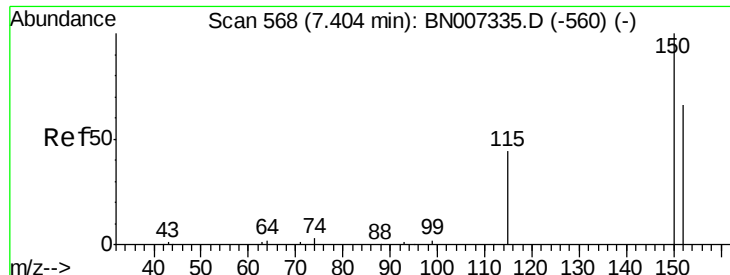
Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119-FD

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8/29/2019 7:59:41 AM

Quant Time: Aug 24 07:54:07 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

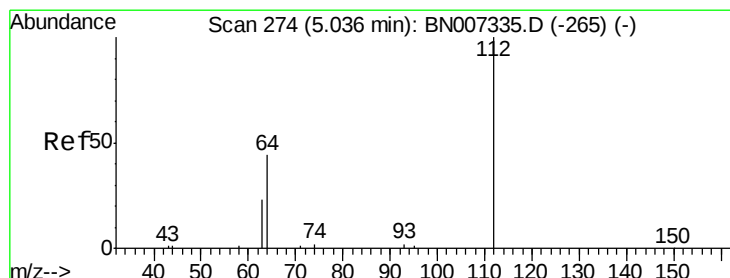
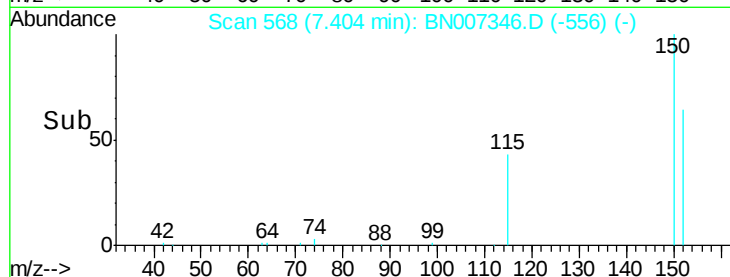
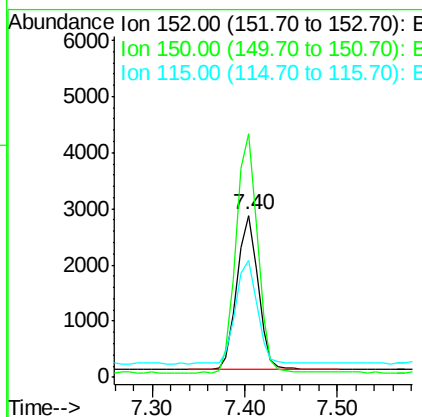
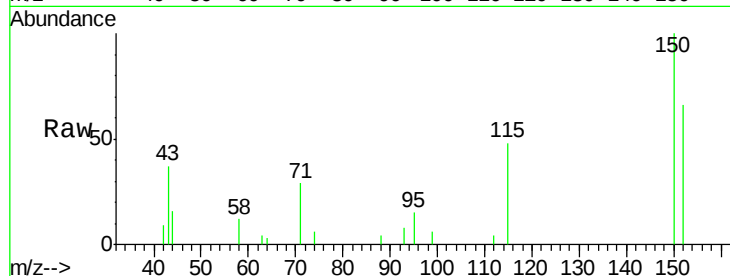
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.40 min Scan# 568
Delta R.T. -0.00 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119-FD

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.6	109.1	163.7
115	72.3	59.6	89.4

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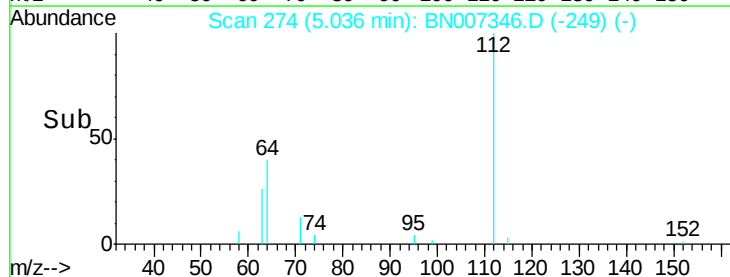
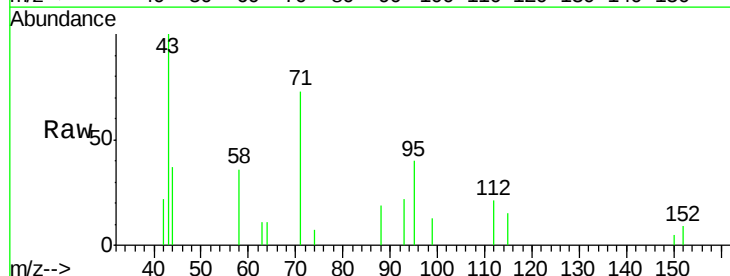
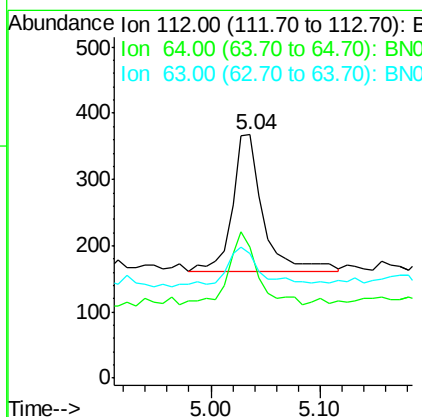
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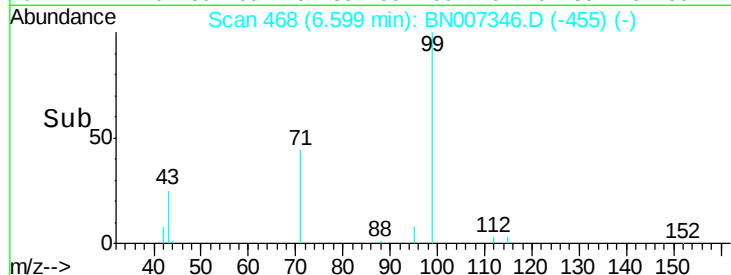
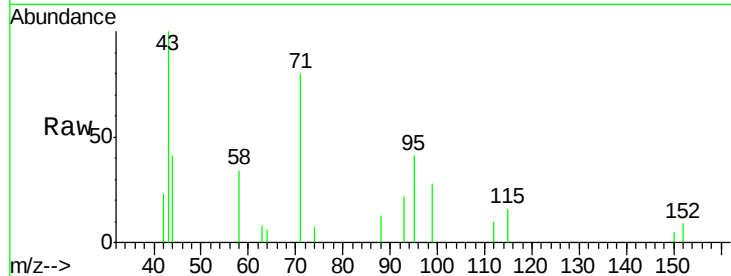
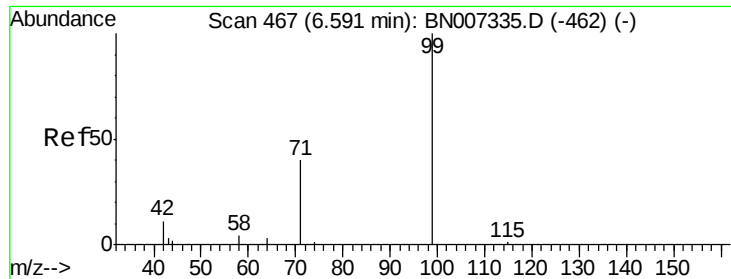


#4

2-Fluorophenol
Concen: -0.001 ng
RT: 5.04 min Scan# 274
Delta R.T. 0.00 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.4	42.3	63.5
63	37.0	23.6	35.4#





#5

Phenol-d6

Concen: -0.007 ng

RT: 6.60 min Scan# 468

Delta R.T. 0.01 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Tot Ion:	99	Resp:	446
Ion	Ratio	Lower	Upper
99	100		
42	17.0	11.2	16.8#
71	54.3	31.8	47.8#

Instrument :

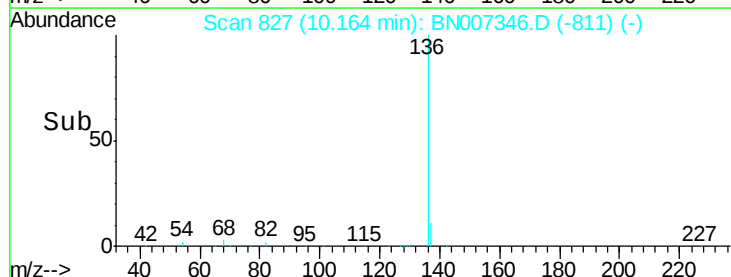
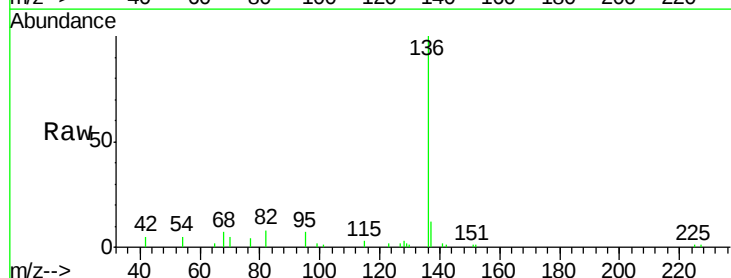
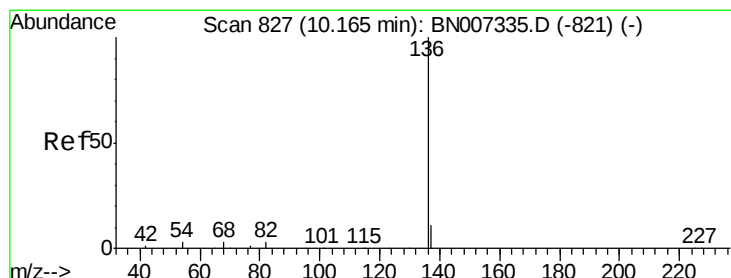
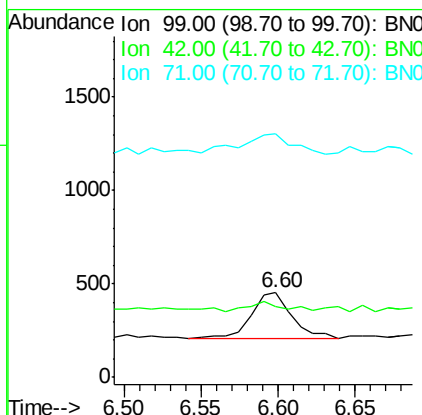
BNA_N

ClientSampleId :

S703-N-0.0-0.5-082119-FD

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#7

Naphthalene-d8

Concen: 0.400 ng

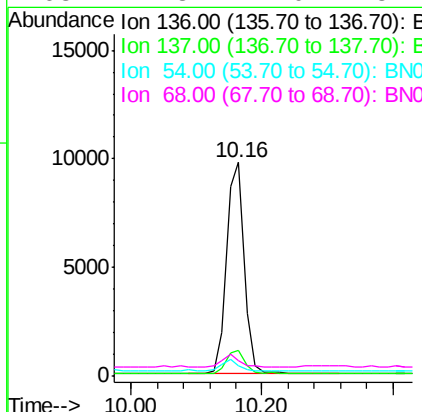
RT: 10.16 min Scan# 827

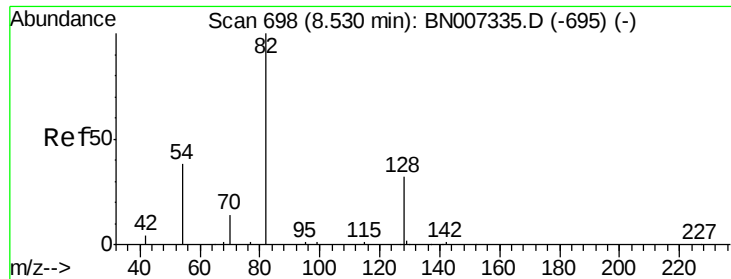
Delta R.T. -0.00 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Tgt Ion:	136	Resp:	18281
Ion	Ratio	Lower	Upper
136	100		
137	12.2	12.9	19.3#
54	5.0	8.6	12.8#
68	7.3	17.0	25.4#





#8

Nitrobenzene-d5

Concen: 0.025 ng

RT: 8.53 min Scan# 698

Delta R.T. -0.00 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Instrument :

BNA_N

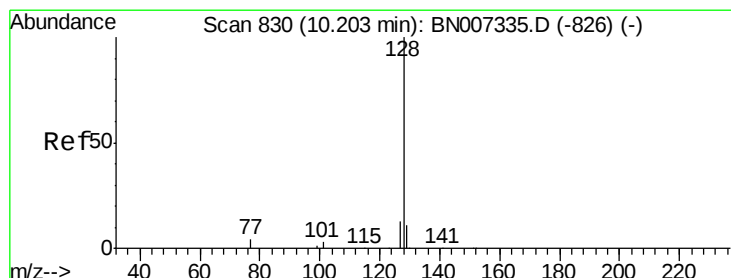
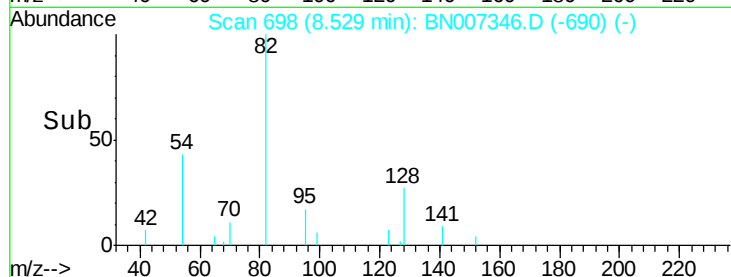
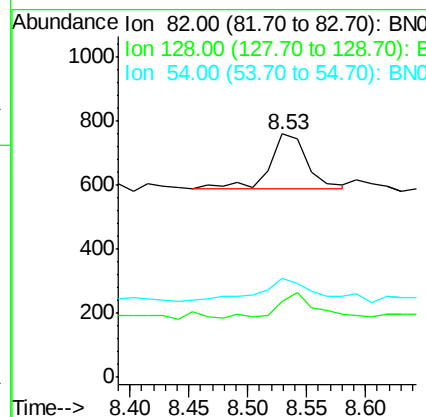
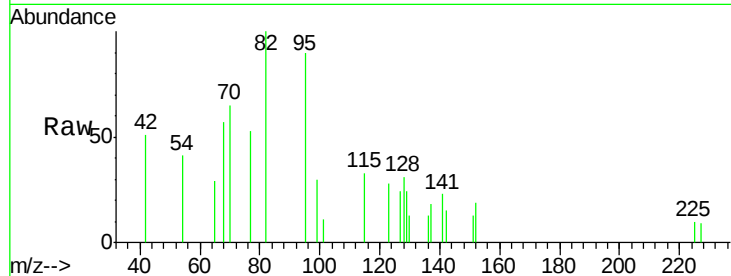
ClientSampleId :

S703-N-0.0-0.5-082119-FD

Tot Ion	82	Resp:	391
Ion	Ratio	Lower	Upper
82	100		
128	31.1	19.7	29.5#
54	40.8	25.8	38.6#

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#9

Naphthalene

Concen: 0.086 ng

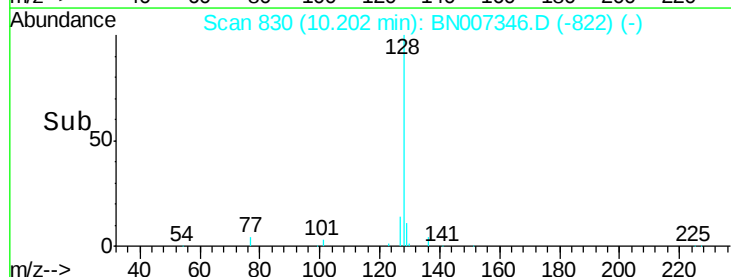
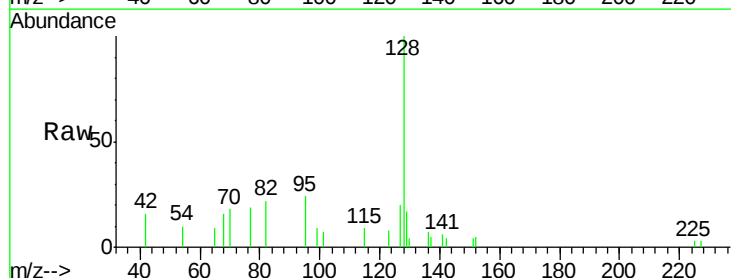
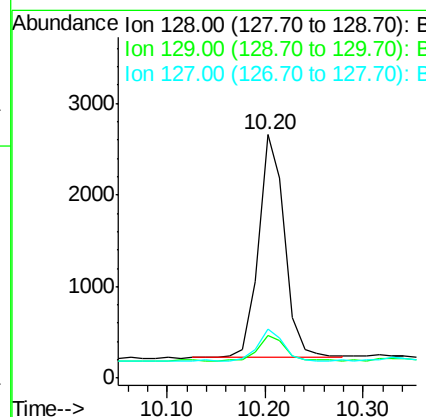
RT: 10.20 min Scan# 830

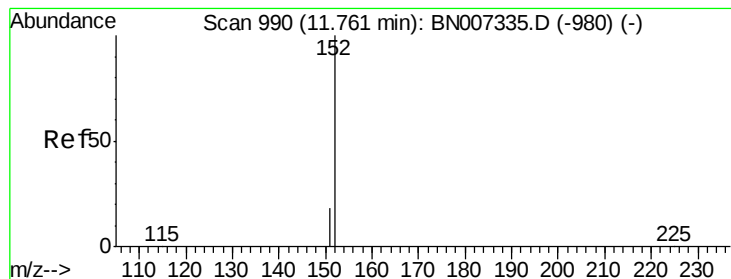
Delta R.T. -0.00 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Tgt Ion	128	Resp:	4488
Ion	Ratio	Lower	Upper
128	100		
129	17.5	11.1	16.7#
127	19.9	15.5	23.3





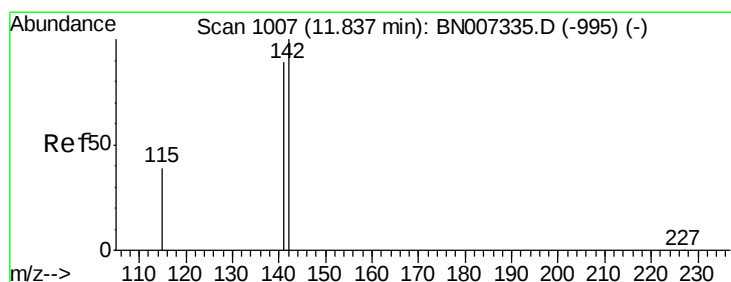
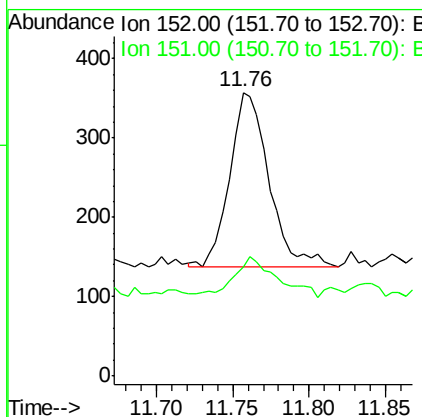
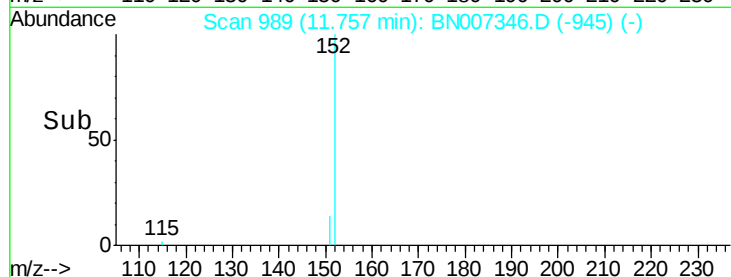
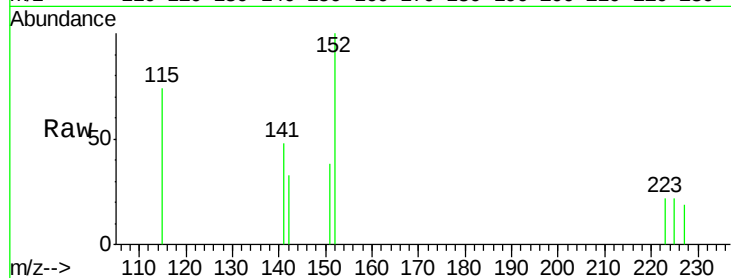
#11
2-Methylnaphthalene-d10
Concen: 0.013 ng
RT: 11.76 min Scan# 989
Delta R.T. -0.00 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119-FD

Tot Ion:152 Resp: 387
Ion Ratio Lower Upper
152 100
151 26.6 16.2 24.2#

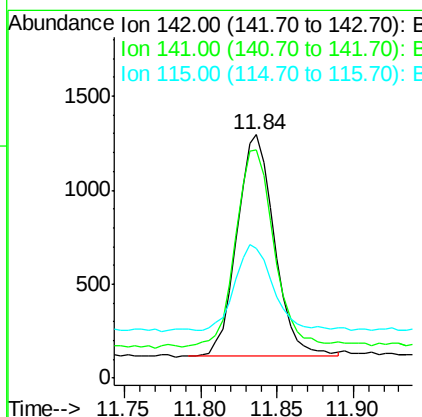
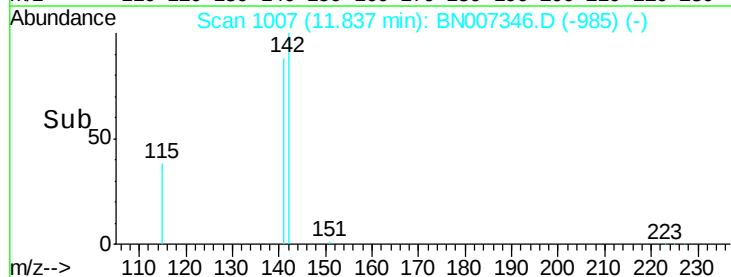
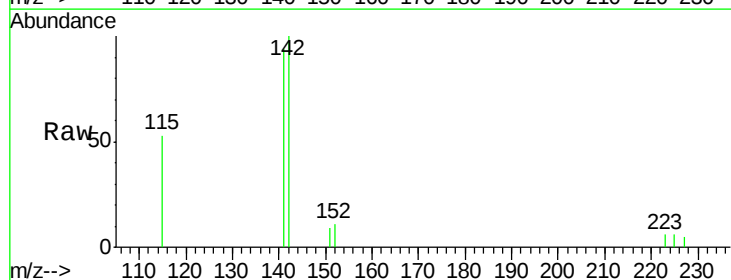
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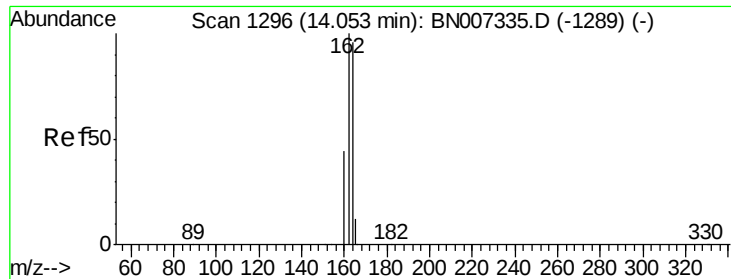
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#12
2-Methylnaphthalene
Concen: 0.057 ng
RT: 11.84 min Scan# 1007
Delta R.T. -0.00 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Tgt Ion:142 Resp: 2018
Ion Ratio Lower Upper
142 100
141 93.5 72.8 109.2
115 53.1 35.2 52.8#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.05 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Instrument :

BNA_N

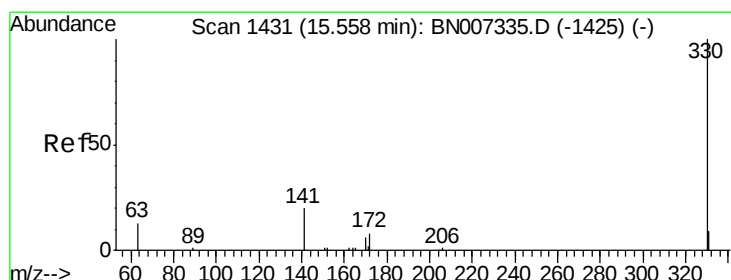
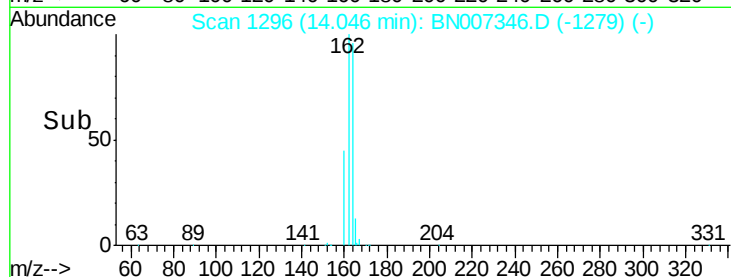
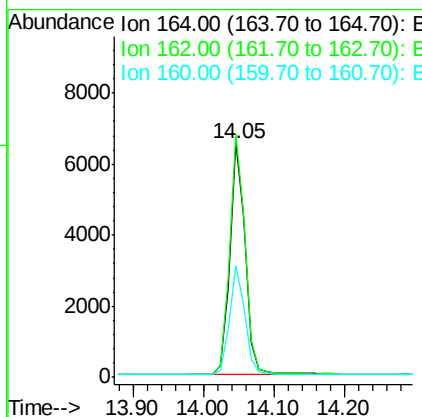
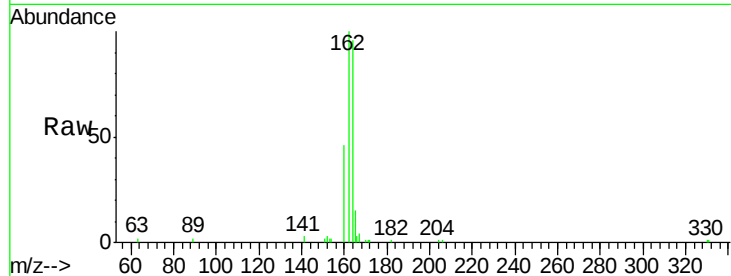
ClientSampleId :

S703-N-0.0-0.5-082119-FD

Tot Ion:	164	Resp:	9991
Ion Ratio	Lower	Upper	
164	100		
162	103.9	83.5	125.3
160	47.7	38.2	57.4

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#14

2,4,6-Tribromophenol

Concen: 0.025 ng

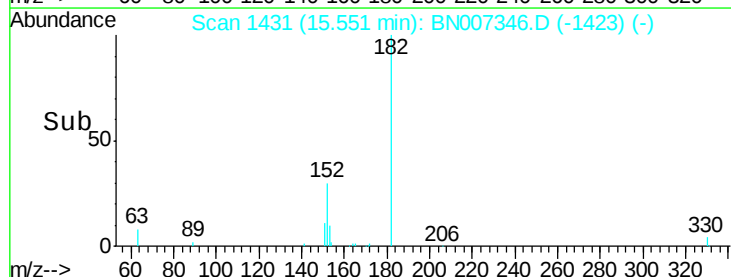
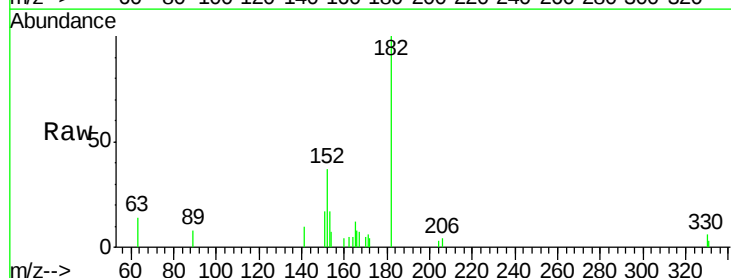
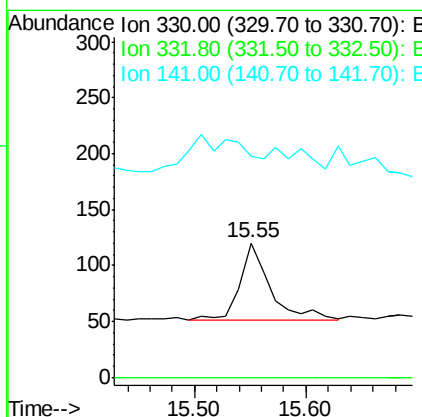
RT: 15.55 min Scan# 1431

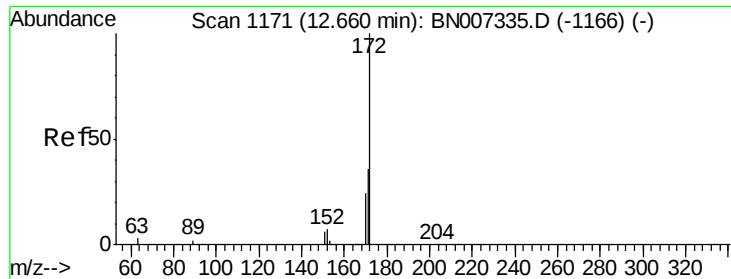
Delta R.T. -0.01 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Tgt Ion:	330	Resp:	133
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	0.0	26.9	40.3#





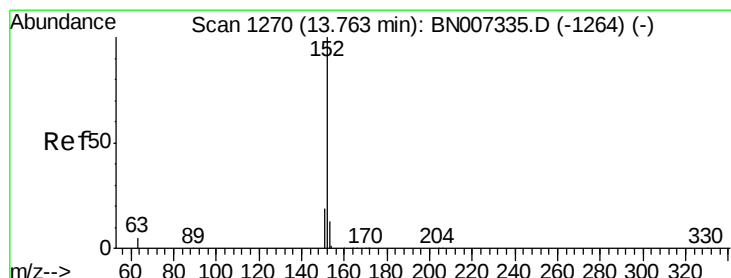
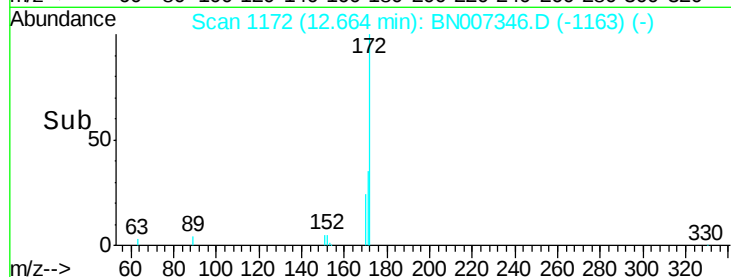
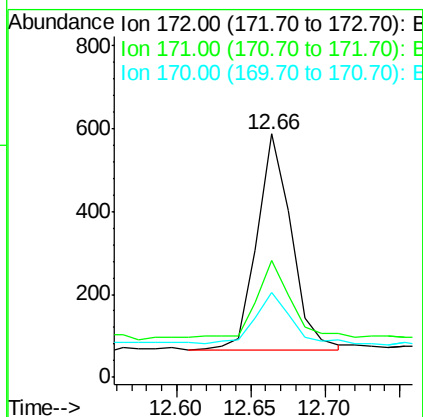
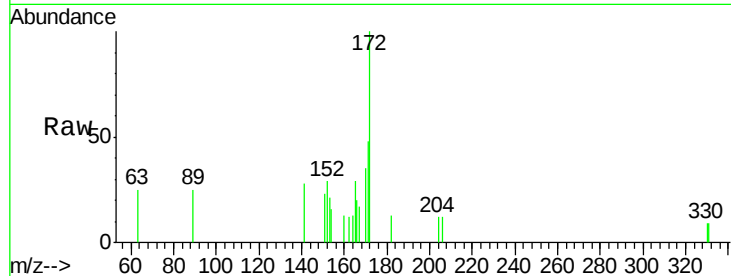
#15
2-Fluorobiphenyl
Concen: 0.021 ng
RT: 12.66 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119-FD

Tot Ion	Ratio	Lower	Upper
172	100		
171	47.8	30.3	45.5#
170	35.0	20.7	31.1#

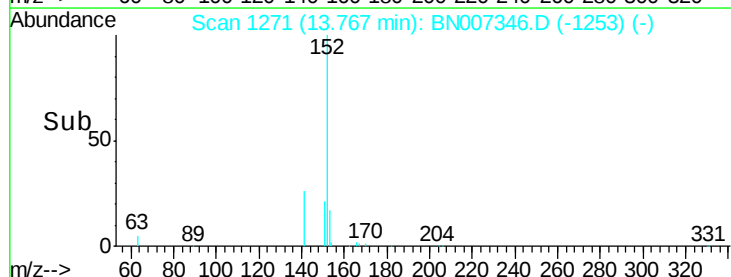
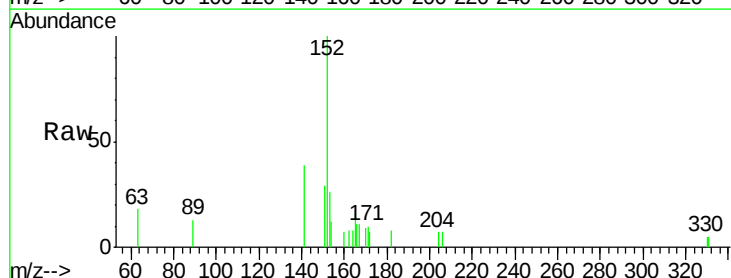
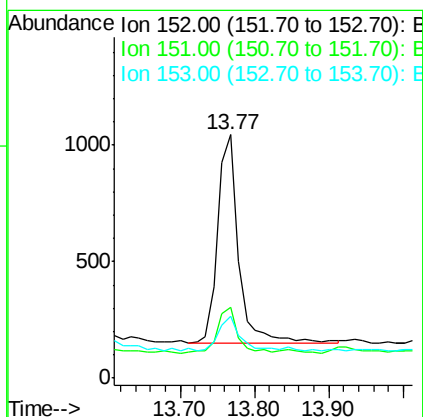
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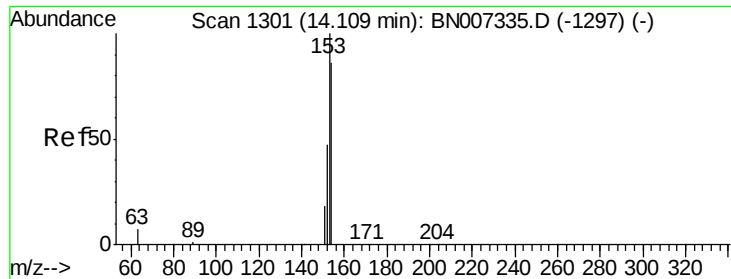
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#16
Acenaphthylene
Concen: 0.030 ng
RT: 13.77 min Scan# 1271
Delta R.T. 0.00 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.1	24.1
153	20.2	10.6	15.8#





#17

Acenaphthene

Concen: 0.593 ng

RT: 14.11 min Scan# 1302

Delta R.T. 0.00 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Instrument :

BNA_N

ClientSampleId :

S703-N-0.0-0.5-082119-FD

Tot Ion:154 Resp: 20494

Ion Ratio Lower Upper

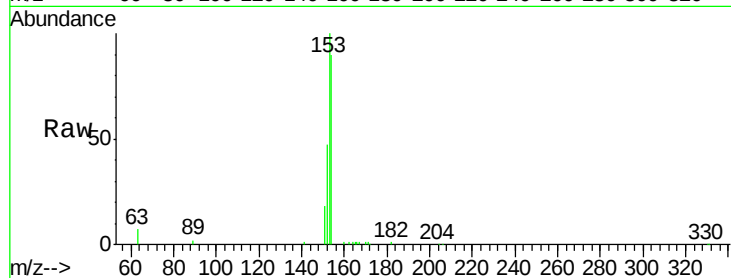
154 100

153 113.1 92.8 139.2

152 54.4 43.8 65.8

Manual Integrations
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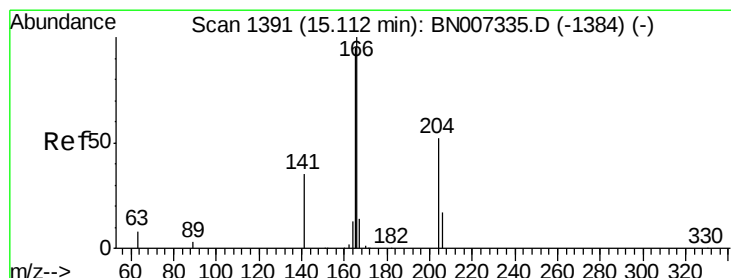
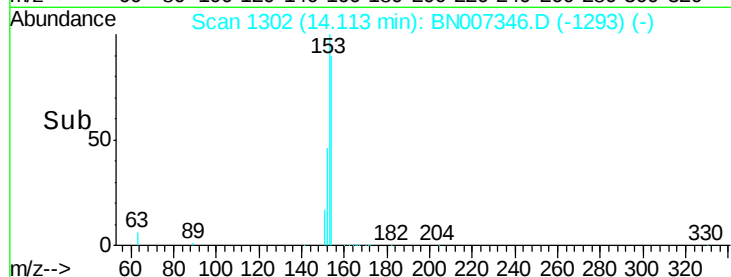
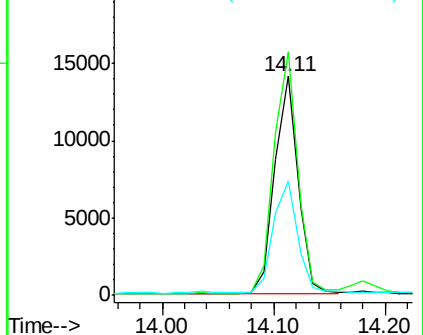
mohammad
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.521 ng

RT: 15.10 min Scan# 1391

Delta R.T. -0.01 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

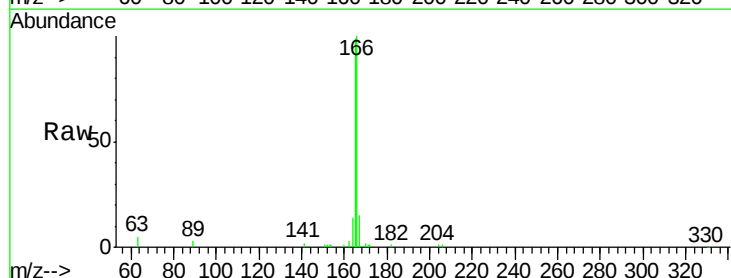
Tgt Ion:166 Resp: 22813

Ion Ratio Lower Upper

166 100

165 96.3 79.0 118.4

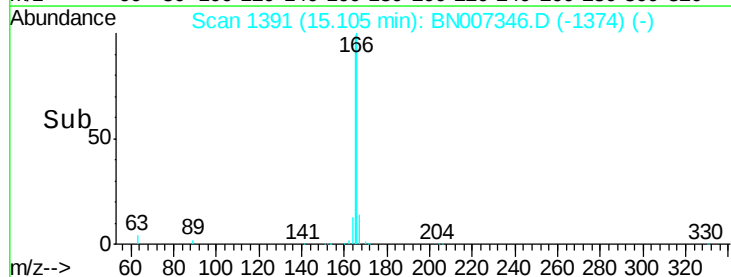
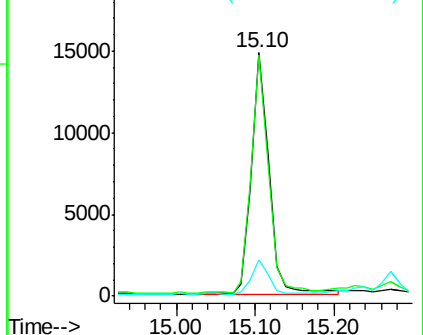
167 14.2 10.6 15.8

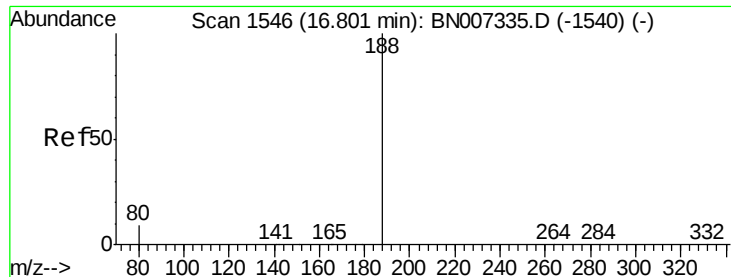


Abundance Ion 166.00 (165.70 to 166.70): E

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: 16.80 min Scan# 1547

Delta R.T. 0.00 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Instrument :

BNA_N

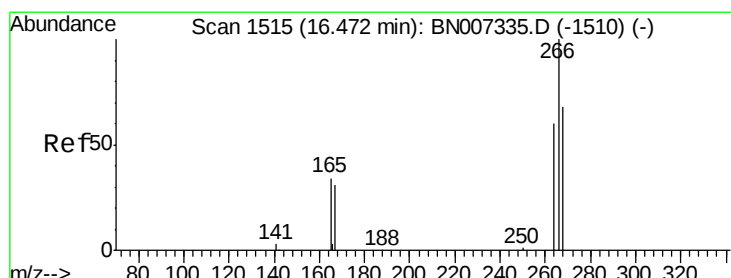
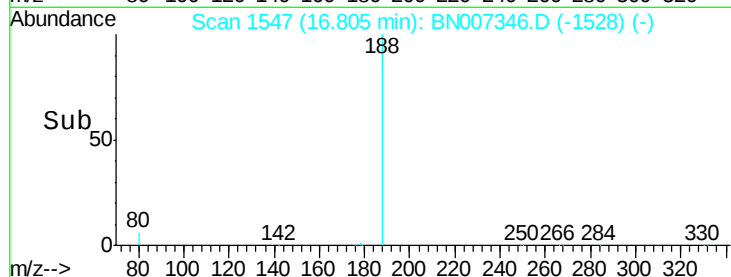
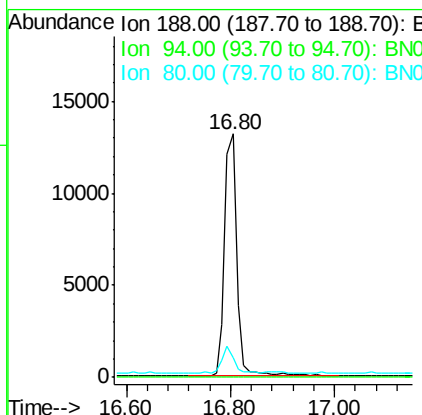
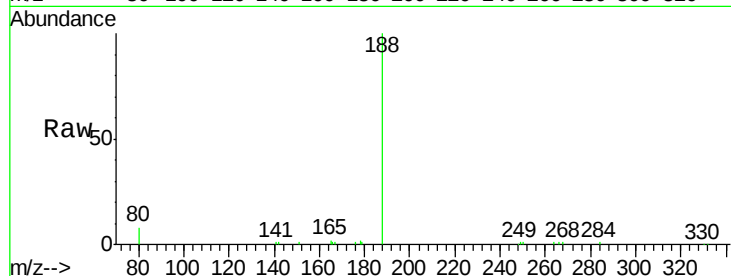
ClientSampleId :

S703-N-0.0-0.5-082119-FD

Tot Ion:	188	Resp:	21915
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.3	11.8	17.8#

Manual Integrations
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mohammad
8/29/2019 7:59:41 AM



#22

Pentachlorophenol

Concen: 0.024 ng

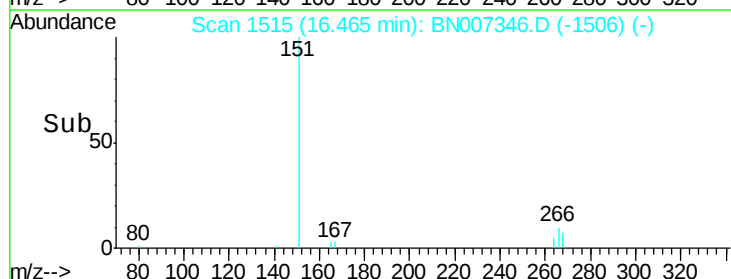
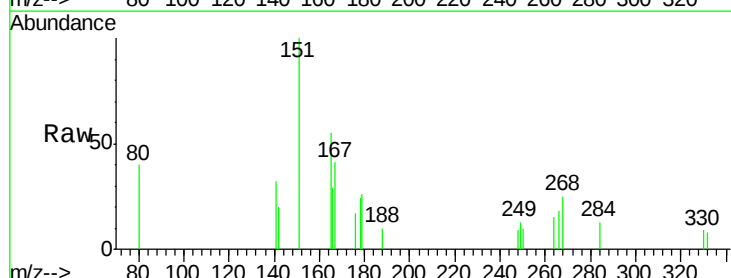
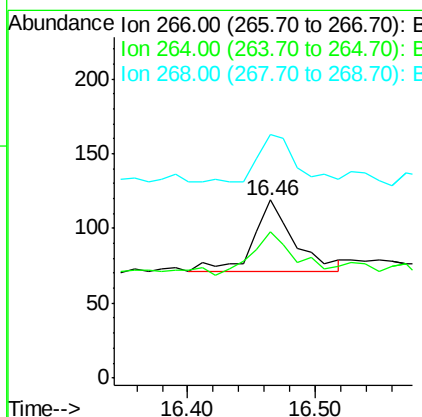
RT: 16.46 min Scan# 1515

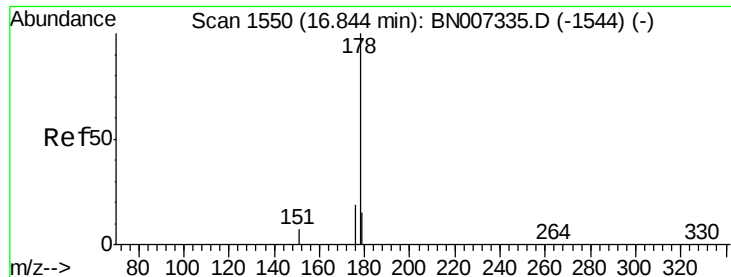
Delta R.T. -0.01 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Tgt Ion:	266	Resp:	108
Ion Ratio	Lower	Upper	
266	100		
264	82.4	57.8	86.8
268	137.0	99.7	149.5





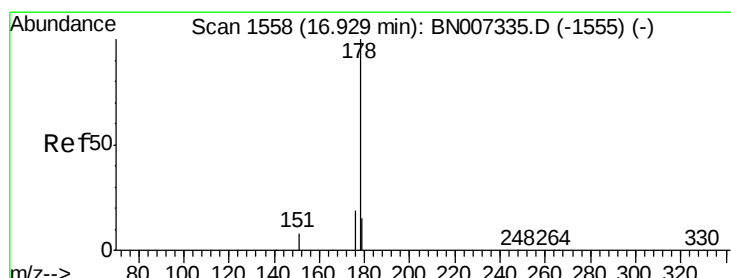
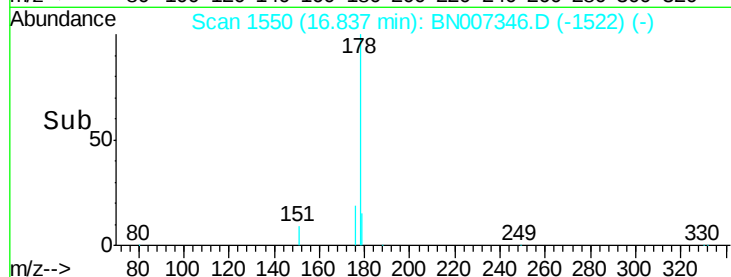
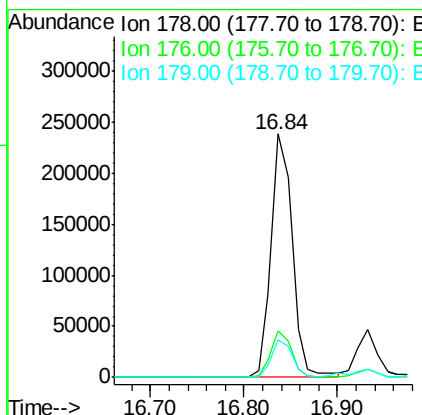
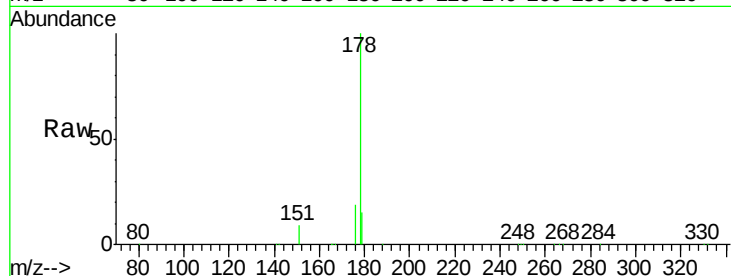
#23
Phenanthrene
Concen: 5.700 ng
RT: 16.84 min Scan# 1550
Delta R.T. -0.01 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119-FD

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.3	22.9
179	15.2	12.6	19.0

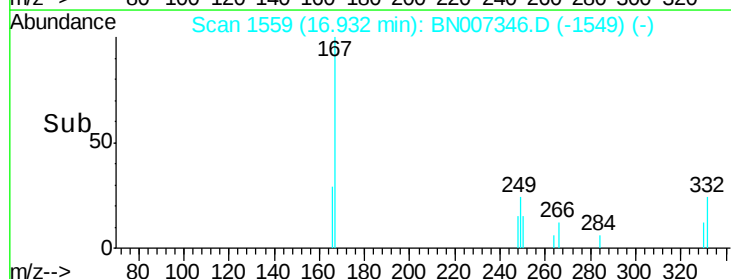
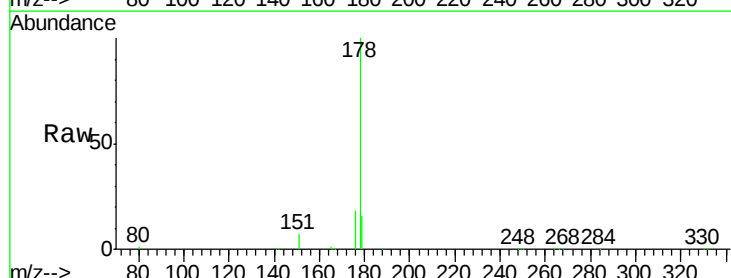
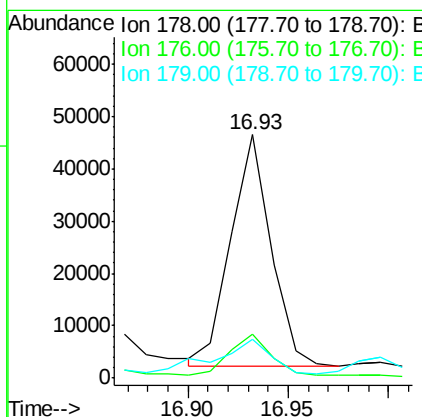
Manual Integrations
APPROVED

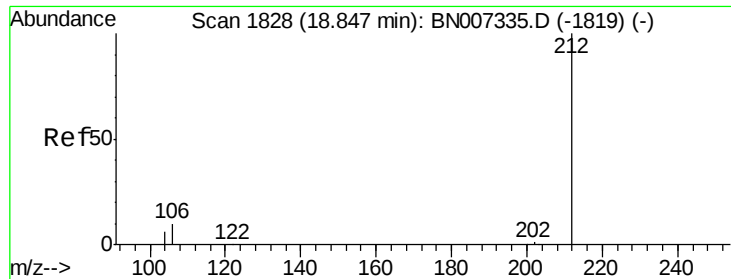
mohammad
8/29/2019 7:59:41 AM



#24
Anthracene
Concen: 0.933 ng
RT: 16.93 min Scan# 1559
Delta R.T. 0.00 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.5	14.9	22.3
179	21.3	12.4	18.6





#25

Fluoranthene-d10

Concen: 0.011 ng

RT: 18.84 min Scan# 1829

Delta R.T. -0.00 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Instrument :

BNA_N

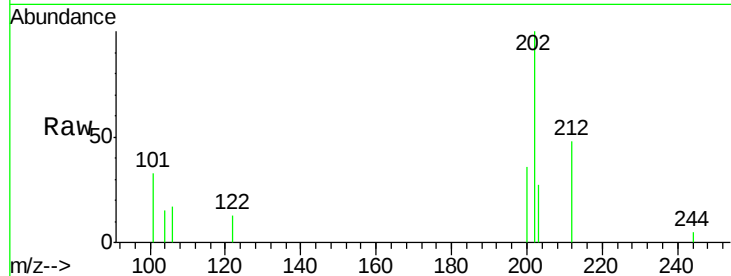
ClientSampleId :

S703-N-0.0-0.5-082119-FD

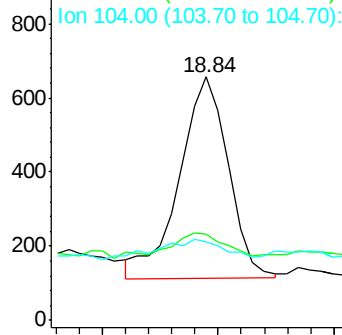
Tot Ion:	212	Resp:	796
Ion Ratio	Lower	Upper	
212	100		
106	14.3	9.0	13.4#
104	13.6	5.4	8.2#

Manual Integrations
APPROVED

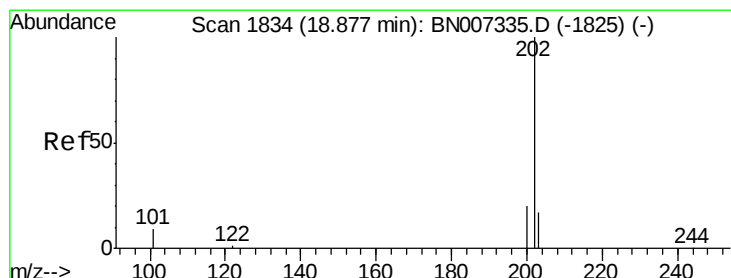
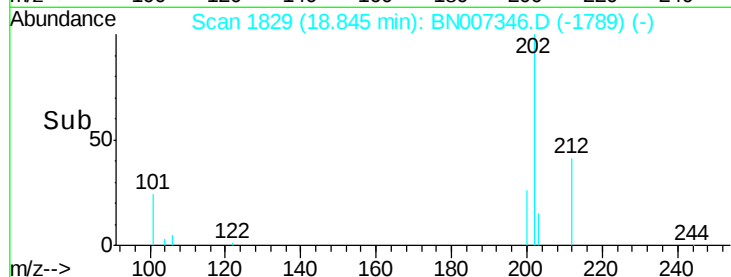
mohammad
8/29/2019 7:59:41 AM



Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E



Time-->



#26

Fluoranthene

Concen: 7.356 ng

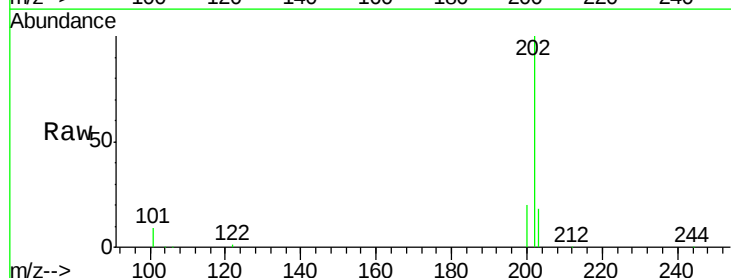
RT: 18.87 min Scan# 1835

Delta R.T. -0.00 min

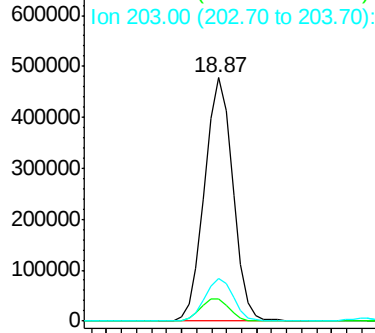
Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

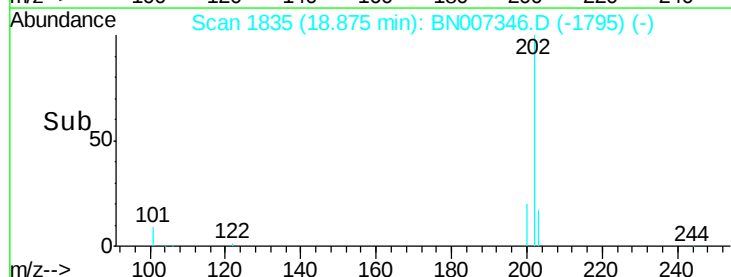
Tgt Ion:	202	Resp:	622618
Ion Ratio	Lower	Upper	
202	100		
101	9.6	7.7	11.5
203	17.4	13.7	20.5

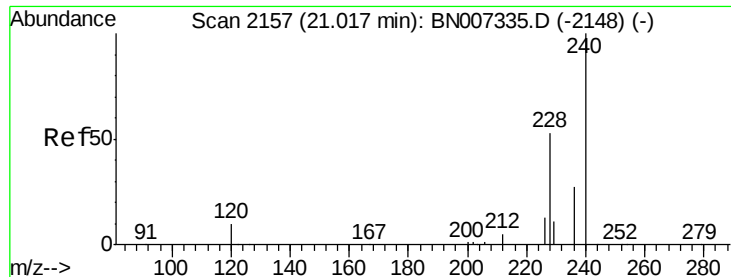


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->





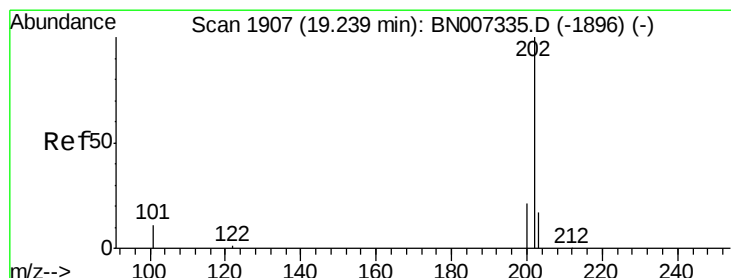
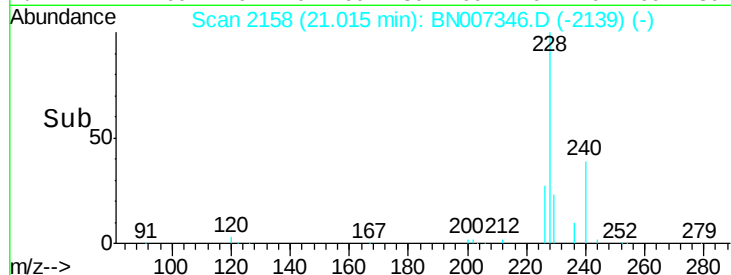
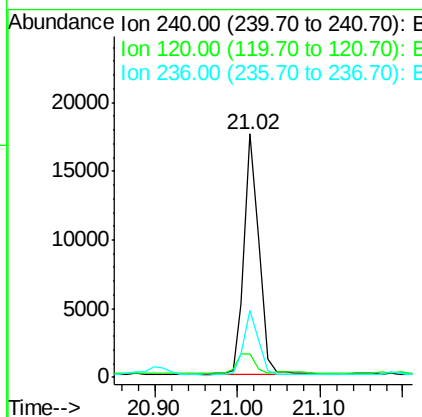
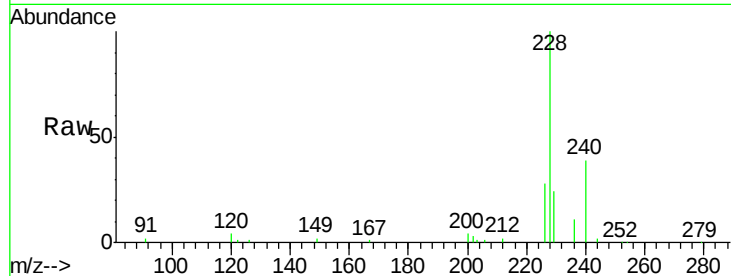
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.02 min Scan# 2158
Delta R.T. -0.00 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119-FD

Tot Ion	Ratio	Lower	Upper
240	100		
120	9.6	9.6	14.4
236	27.5	22.2	33.2

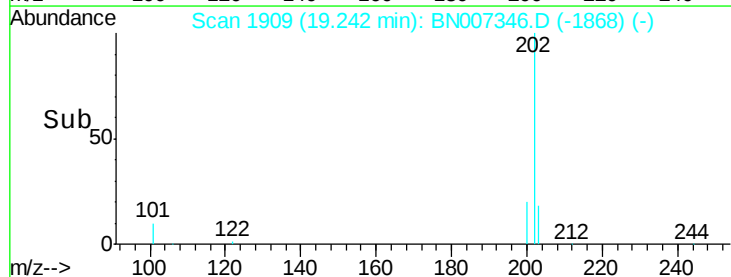
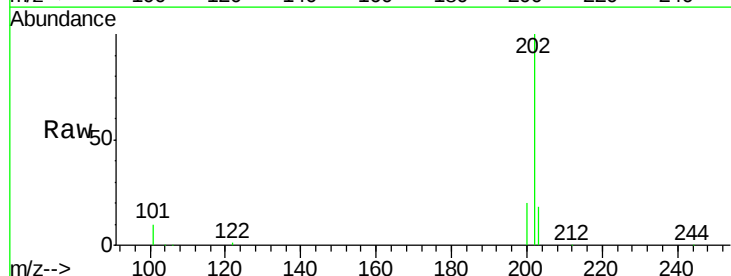
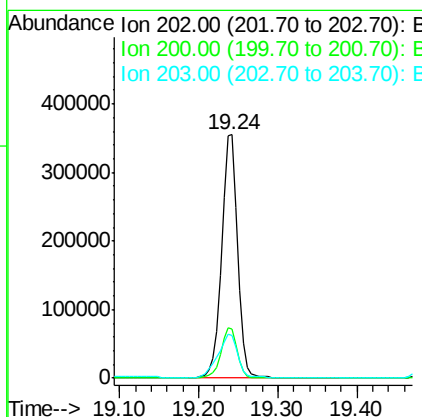
Manual Integrations
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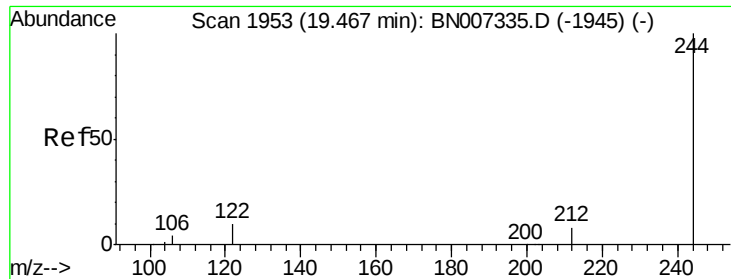
mohammad
8/29/2019 7:59:41 AM



#28
Pyrene
Concen: 5.698 ng
RT: 19.24 min Scan# 1909
Delta R.T. 0.00 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	25.0
203	22.8	14.2	21.4





#29

Terphenyl-d14

Concen: 0.022 ng

RT: 19.46 min Scan# 1953

Delta R.T. -0.01 min

Lab File: BN007346.D

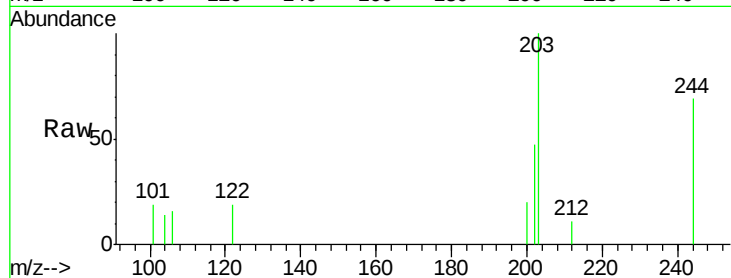
Acq: 24 Aug 2019 02:49

Instrument :

BNA_N

ClientSampleId :

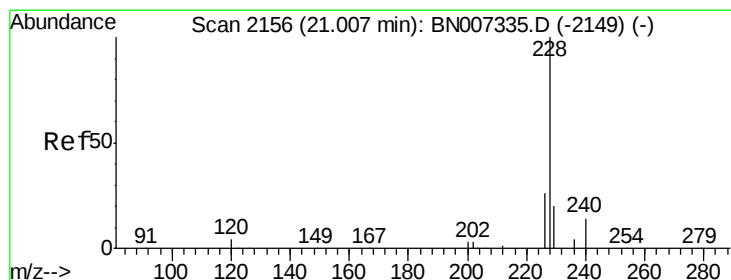
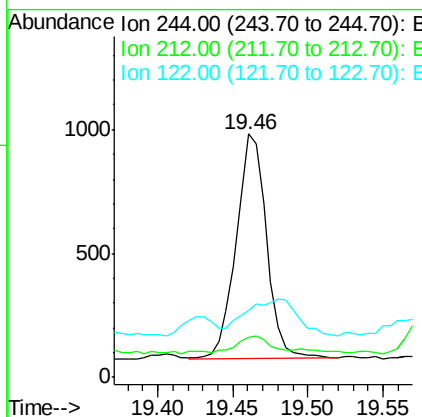
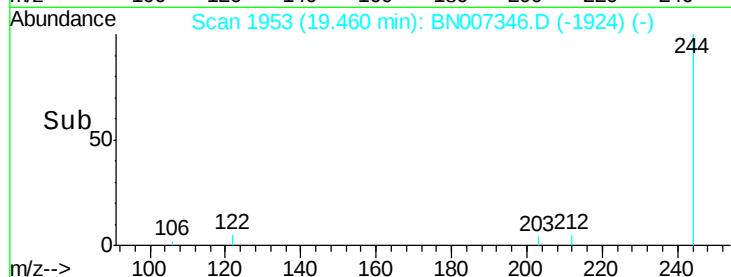
S703-N-0.0-0.5-082119-FD



Tot Ion	Ion	Ratio	Resp	Lower	Upper
244	100				
212	16.7	7.0	10.6		
122	27.5	9.6	14.4		

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#30

Benzo(a)anthracene

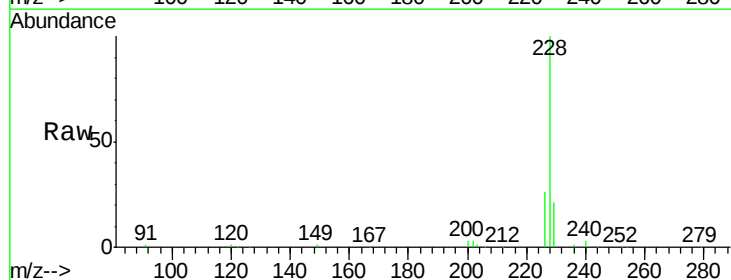
Concen: 3.058 ng

RT: 21.00 min Scan# 2157

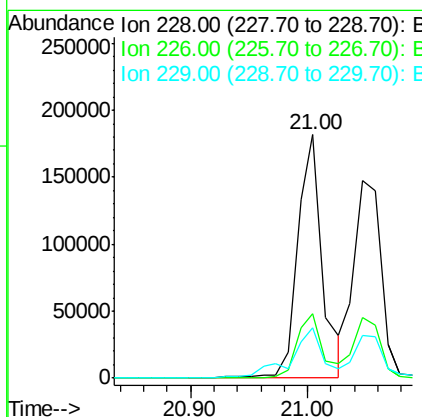
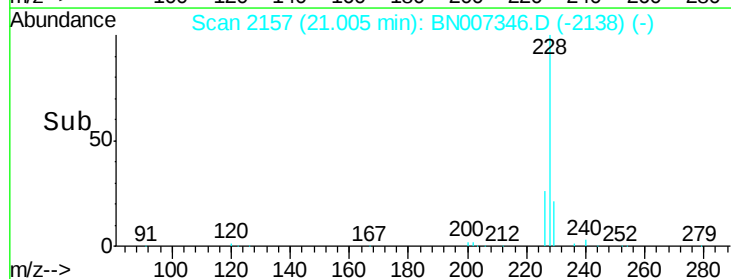
Delta R.T. -0.00 min

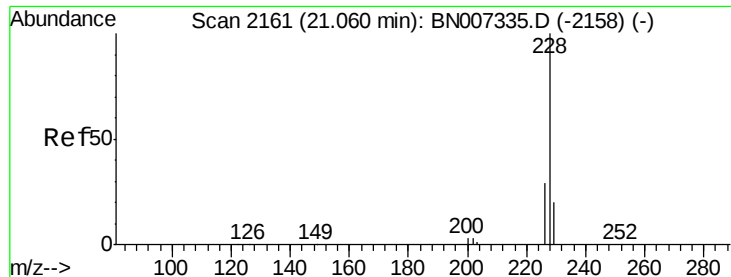
Lab File: BN007346.D

Acq: 24 Aug 2019 02:49



Tgt Ion	Ion	Ratio	Resp	Lower	Upper
228	100				
226	26.4	21.3	31.9		
229	20.8	16.1	24.1		





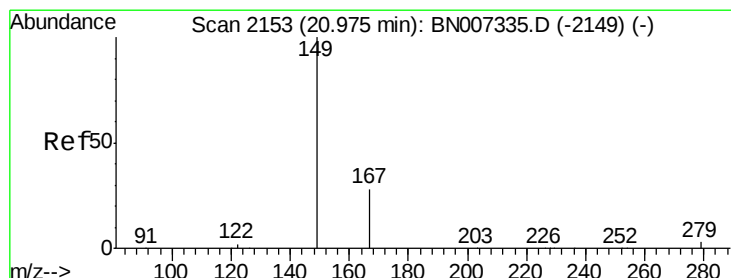
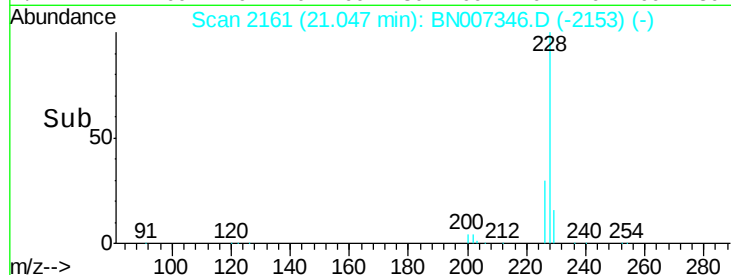
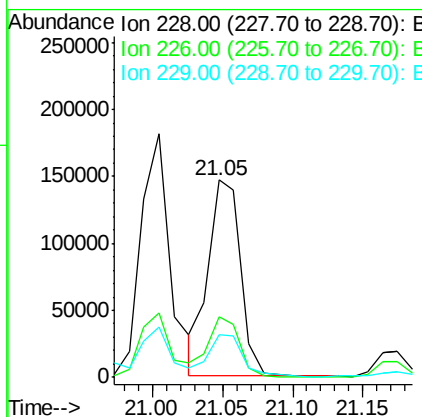
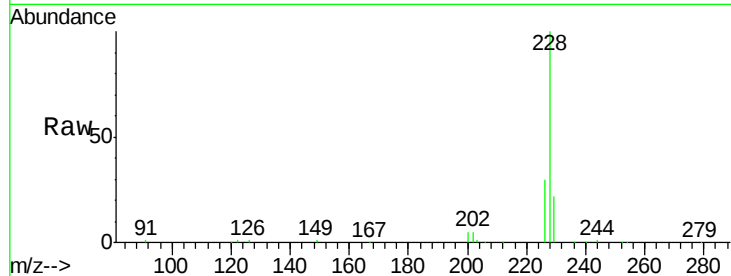
#31
 Chrvsene
 Concen: 2.806 ng
 RT: 21.05 min Scan# 2161
 Delta R.T. -0.01 min
 Lab File: BN007346.D
 Acq: 24 Aug 2019 02:49

Instrument :
 BNA_N
 ClientSampleId :
 S703-N-0.0-0.5-082119-FD

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.5	35.3
229	21.6	16.6	24.8

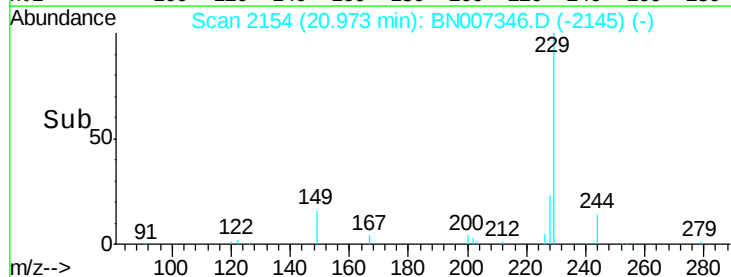
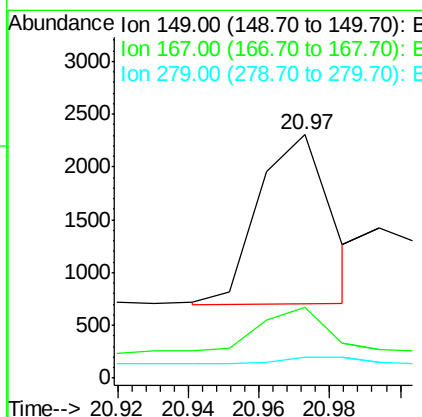
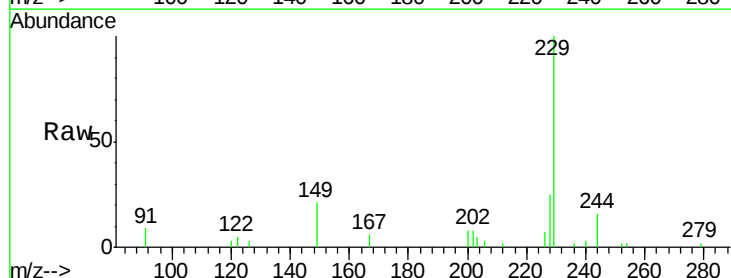
Manual Integrations
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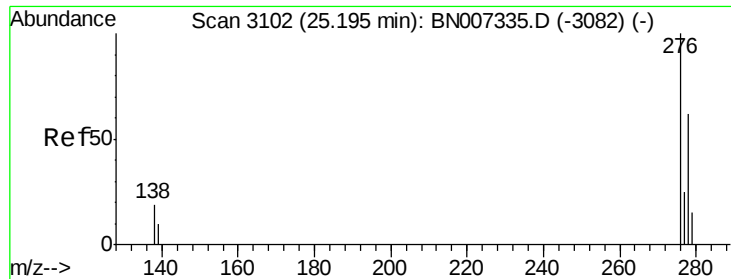
mohammad
 8/29/2019 7:59:41 AM



#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.021 ng m
 RT: 20.97 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: BN007346.D
 Acq: 24 Aug 2019 02:49

Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.8	34.2
279	6.7	3.5	5.3#





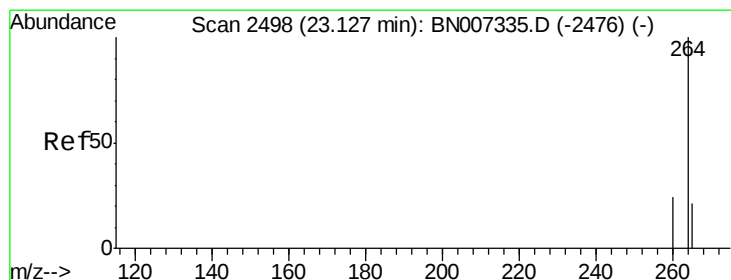
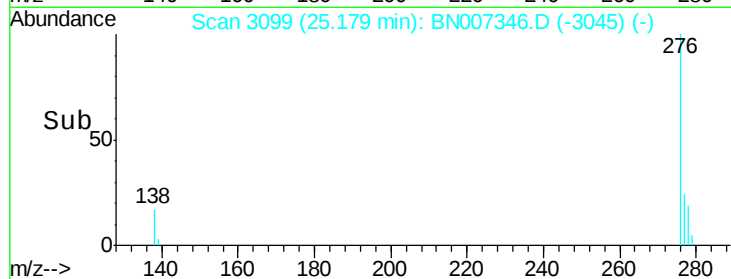
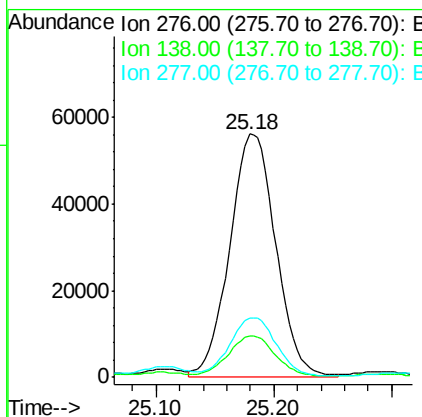
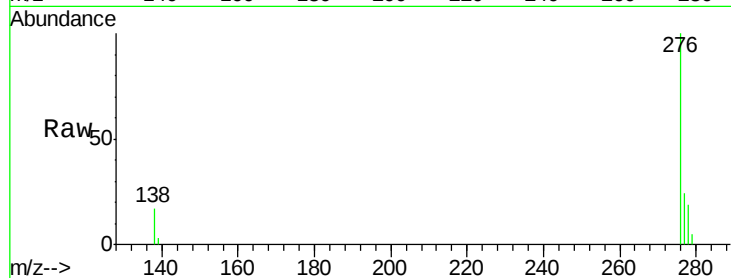
#33
Indeno(1,2,3-cd)pyrene
Concen: 1.500 ng
RT: 25.18 min Scan# 3099
Delta R.T. -0.02 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119-FD

Tot Ion	Ratio	Lower	Upper
276	100		
138	16.7	15.1	22.7
277	24.8	19.7	29.5

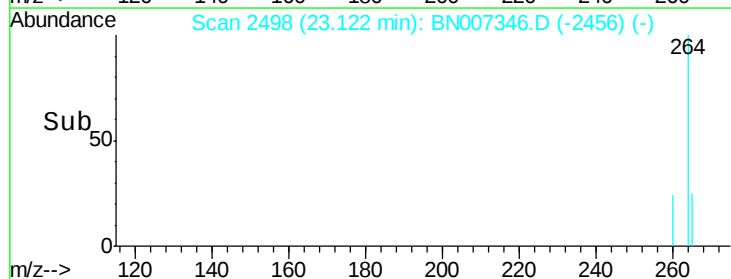
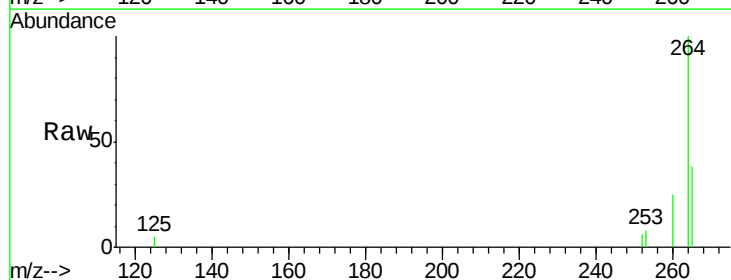
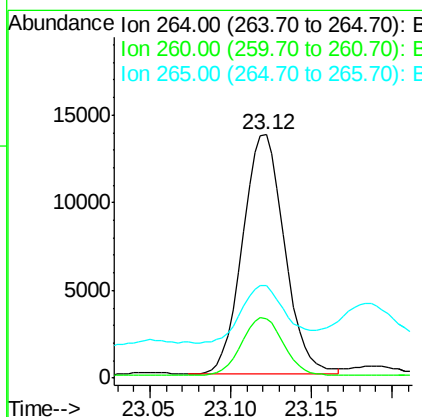
Manual Integrations
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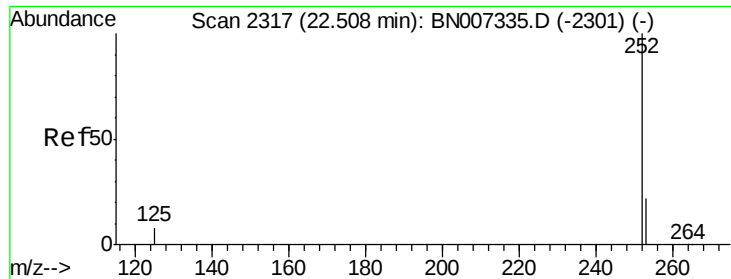
mohammad
8/29/2019 7:59:41 AM



#34
Perylene-d12
Concen: 0.400 ng
RT: 23.12 min Scan# 2498
Delta R.T. -0.01 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.7	29.5
265	37.9	29.9	44.9





#35

Benzo(b)fluoranthene

Concen: 3.430 ng m

RT: 22.51 min Scan# 2318

Delta R.T. -0.00 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Instrument :

BNA_N

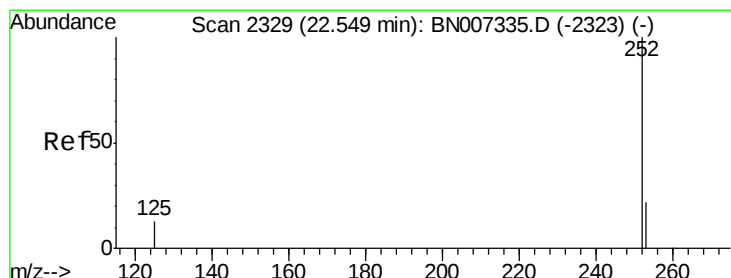
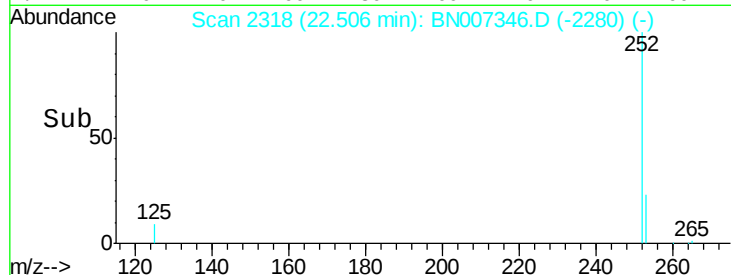
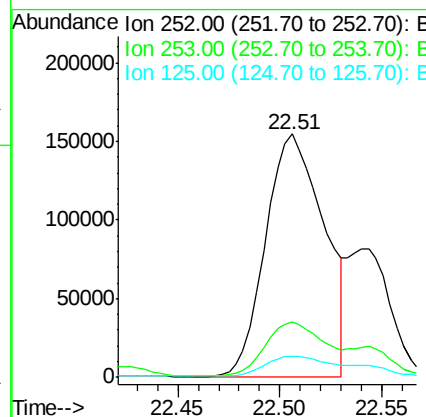
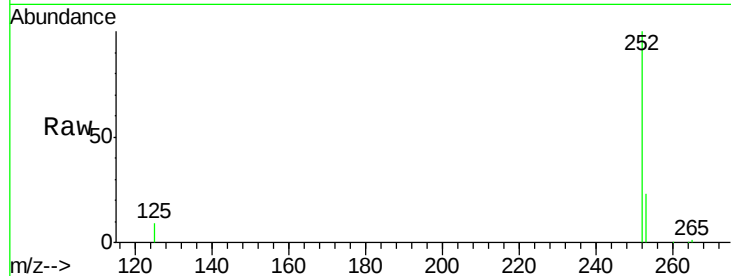
ClientSampleId :

S703-N-0.0-0.5-082119-FD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	19.2	28.8
125	8.8	10.6	16.0

Manual Integrations
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mohammad
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#36

Benzo(k)fluoranthene

Concen: 1.339 ng m

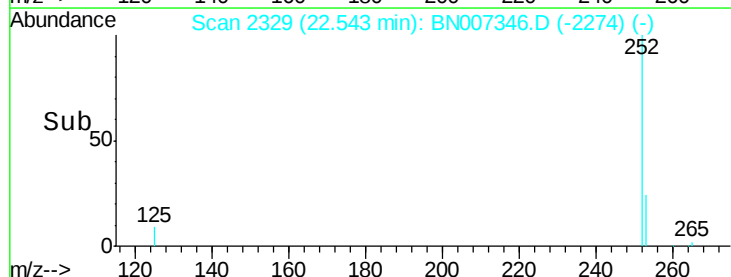
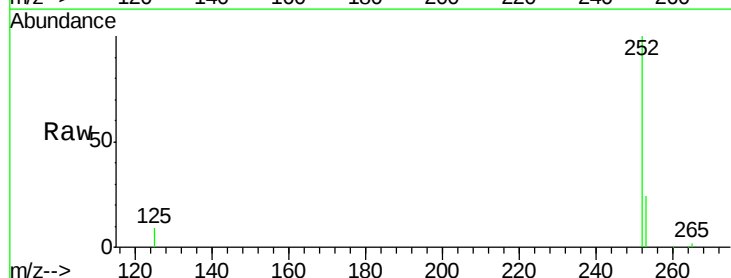
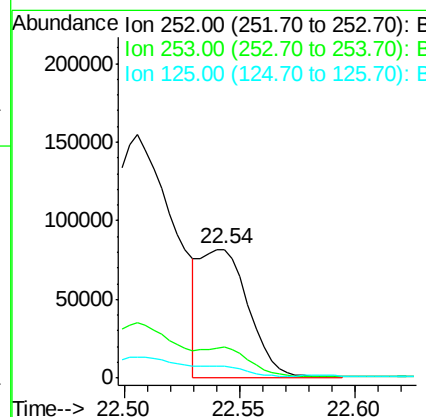
RT: 22.54 min Scan# 2329

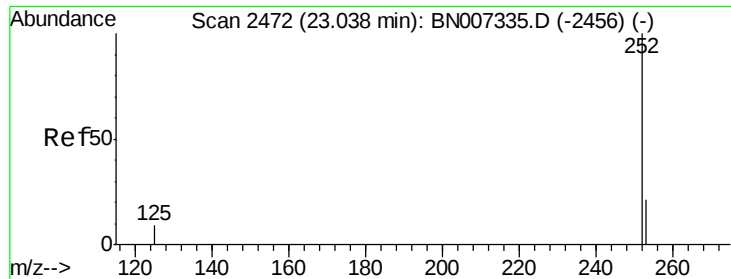
Delta R.T. -0.01 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	19.4	29.2
125	9.0	13.1	19.7





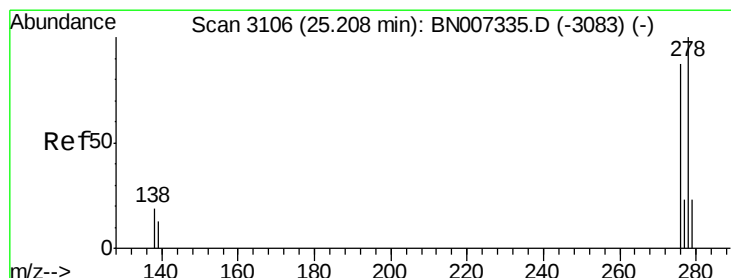
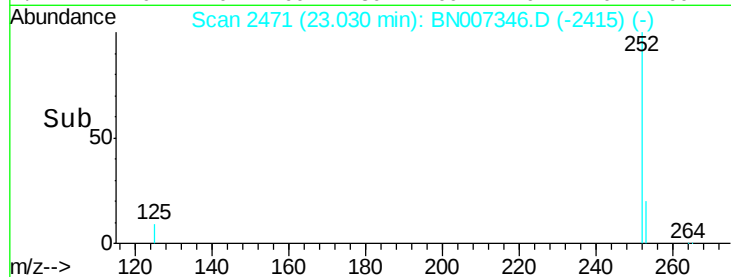
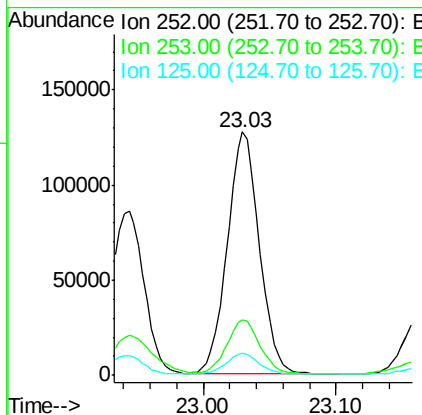
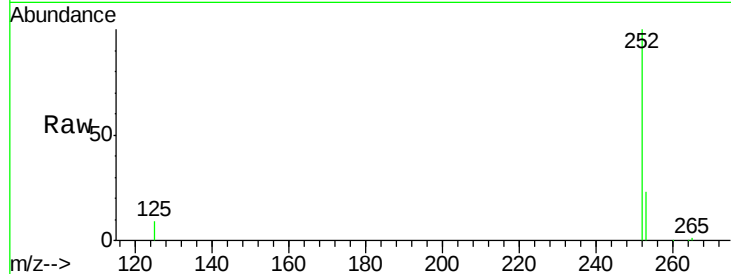
#37
Benzo(a)pyrene
Concen: 2.515 ng m
RT: 23.03 min Scan# 2471
Delta R.T. -0.01 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Instrument :
BNA_N
ClientSampleId :
S703-N-0.0-0.5-082119-FD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.5	29.3
125	9.3	12.1	18.1

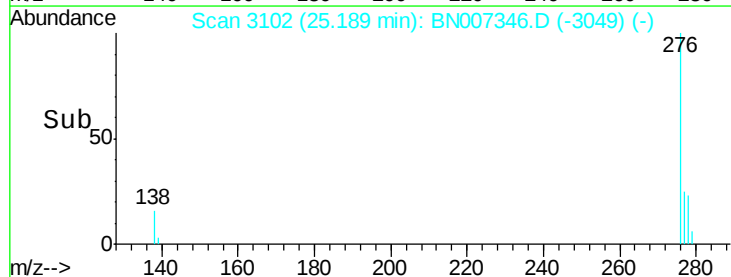
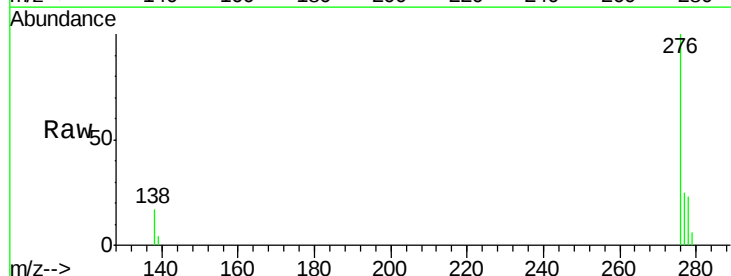
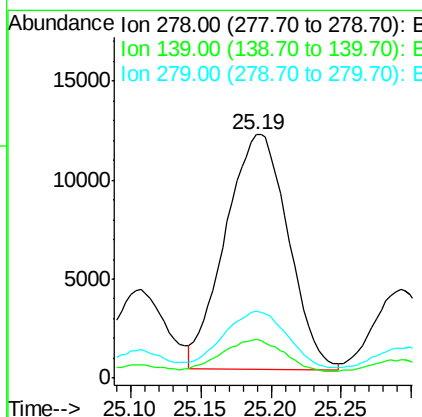
Manual Integrations
APPROVED

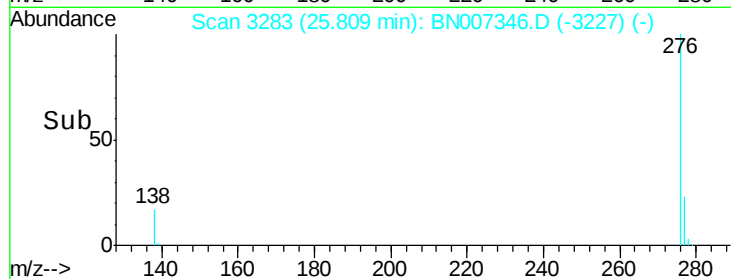
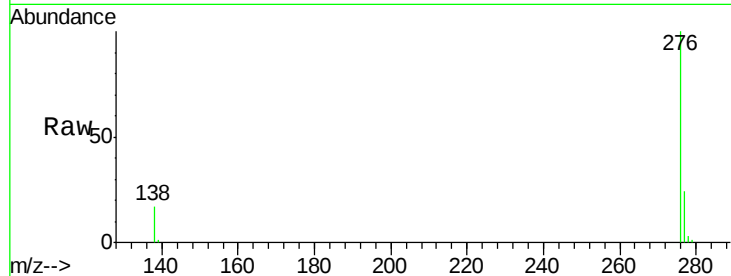
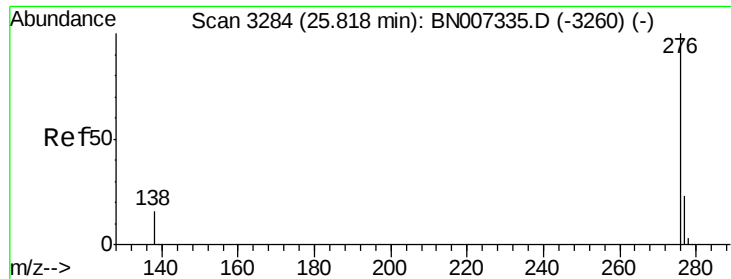
mohammad
8/29/2019 7:59:41 AM



#38
Dibenzo(a,h)anthracene
Concen: 0.437 ng
RT: 25.19 min Scan# 3102
Delta R.T. -0.02 min
Lab File: BN007346.D
Acq: 24 Aug 2019 02:49

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.7	13.7	20.5
279	27.2	20.2	30.4





#39

Benzo(a,h,i)perylene

Concen: 1.708 ng

RT: 25.81 min Scan# 3283

Delta R.T. -0.01 min

Lab File: BN007346.D

Acq: 24 Aug 2019 02:49

Tot Ion:	276	Resp:	144119
Ion Ratio	Lower	Upper	
276	100		
277	24.1	19.6	29.4
138	17.2	16.3	24.5

Instrument :

BNA_N

ClientSampleId :

S703-N-0.0-0.5-082119-FD

Manual Integrations
APPROVED

mohammad
8/29/2019 7:59:41 AM

