

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070119\
 Data File : BN006676.D
 Acq On : 02 Jul 2019 01:42
 Operator : HP/JU
 Sample : K3505-01
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-013-B214-062019

Manual Integrations
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 7/2/2019 2:52:57 PM

Quant Time: Jul 02 06:03:26 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN062819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 28 13:47:56 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	4160	0.40	ng	0.00
7) Naphthalene-d8	10.39	136	16740	0.40	ng	-0.01
13) Acenaphthene-d10	14.27	164	10195	0.40	ng	-0.01
19) Phenanthrene-d10	17.03	188	19815	0.40	ng	-0.01
27) Chrysene-d12	21.25	240	23660	0.40	ng	-0.02
34) Perylene-d12	23.48	264	26970	0.40	ng	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	5.24	112	2736	0.27	ng	0.00
5) Phenol-d6	6.81	99	3729	0.28	ng	-0.02
8) Nitrobenzene-d5	8.78	82	2804	0.25	ng	-0.01
11) 2-Methylnaphthalene-d10	11.99	152	6049	0.23	ng	0.00
14) 2,4,6-Tribromophenol	15.78	330	1222	0.25	ng	-0.01
15) 2-Fluorobiphenyl	12.88	172	7621	0.20	ng	-0.01
25) Fluoranthene-d10	19.07	212	11897	0.20	ng	-0.01
29) Terphenyl-d14	19.67	244	9305	0.19	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.44	128	94754	2.154	ng	99
12) 2-Methylnaphthalene	12.07	142	78162	2.571	ng	99
16) Acenaphthylene	13.99	152	390711	8.038	ng	98
17) Acenaphthene	14.33	154	92305	2.882	ng	99
18) Fluorene	15.32	166	241369	5.974	ng	# 96
23) Phenanthrene	17.07	178	2918761	51.804	ng	99
24) Anthracene	17.15	178	660819	13.517	ng	99
26) Fluoranthene	19.10	202	2544801	37.165	ng	97
28) Pyrene	19.47	202	3364825	40.643	ng	# 95
30) Benzo(a)anthracene	21.24	228	1657737	21.431	ng	92
31) Chrysene	21.28	228	1545180	18.530	ng	96
32) Bis(2-ethylhexyl)phthalate	21.15	149	9072	0.233	ng	# 68
33) Indeno(1,2,3-cd)pyrene	25.71	276	801615	9.497	ng	98
35) Benzo(b)fluoranthene	22.82	252	1528520	16.661	ng	99
36) Benzo(k)fluoranthene	22.85	252	424499m	4.341	ng	
37) Benzo(a)pyrene	23.38	252	1320027	15.391	ng	99
38) Dibenzo(a,h)anthracene	25.71	278	244557	3.264	ng	# 90
39) Benzo(a,h,i)perylene	26.40	276	868084	11.607	ng	99

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

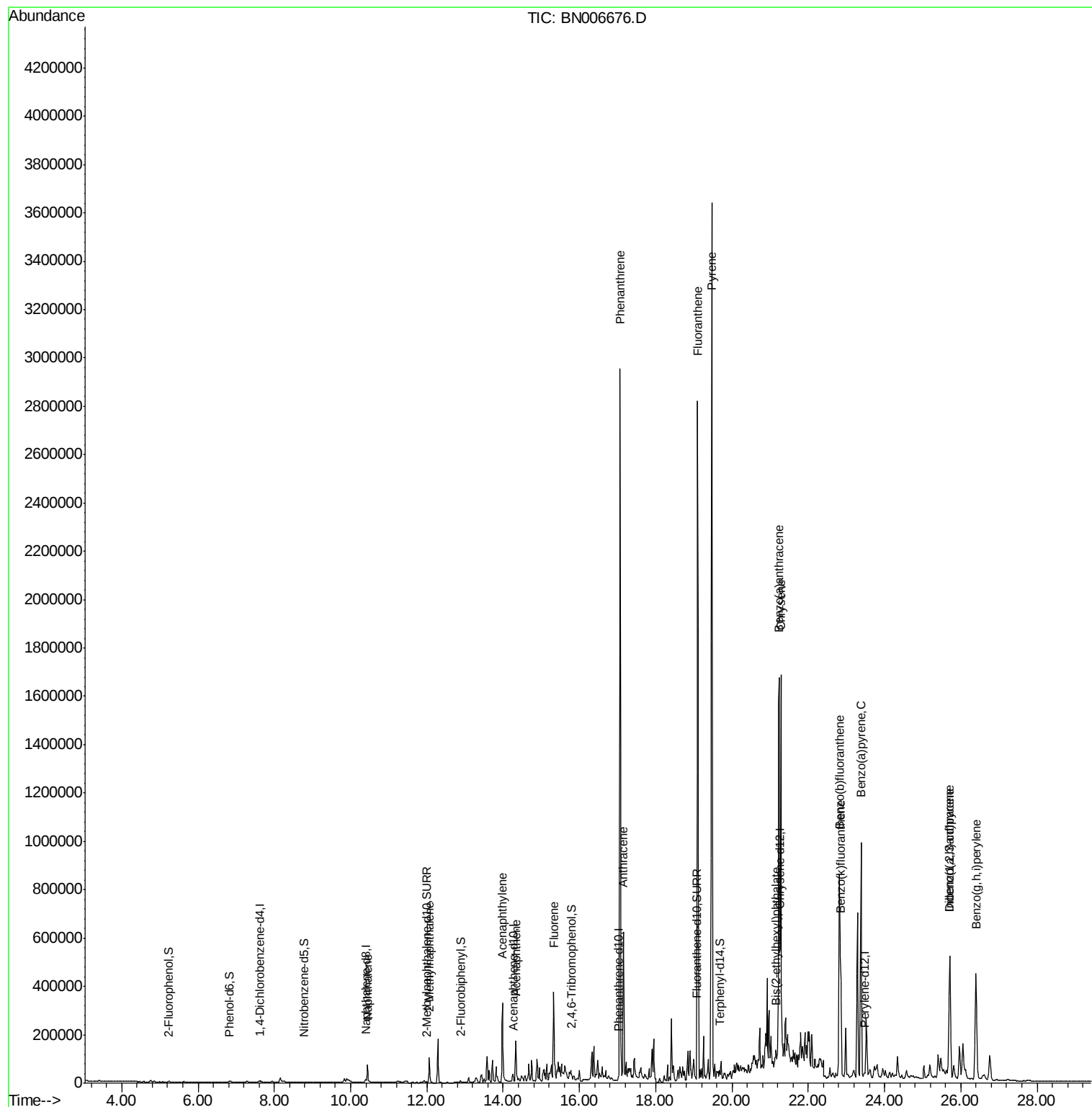
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ALS Vial : 24 Sample Multiplier: 1

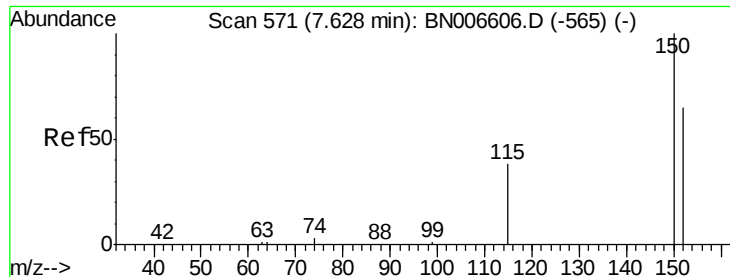
Instrument :
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PST-013-B214-062019

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN062819.M
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#1

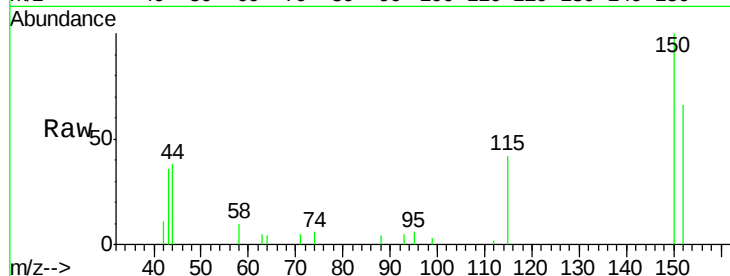
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.62 min Scan# 570
Delta R.T. -0.01 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Instrument :
BNA_N
ClientSampleId :
PST-013-B214-062019

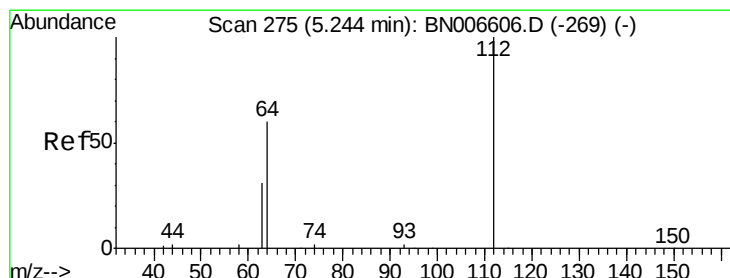
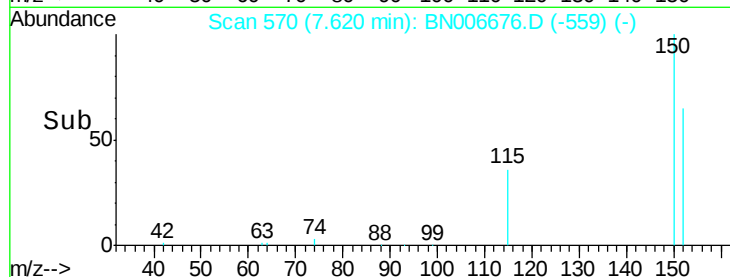
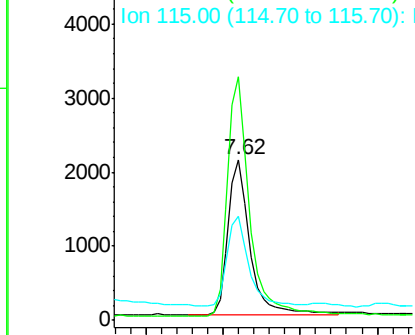
Tot Ion	Ratio	Lower	Upper
152	100		
150	151.7	122.2	183.2
115	64.4	50.0	75.0

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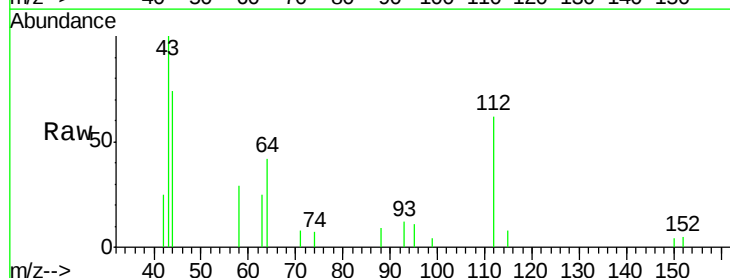
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



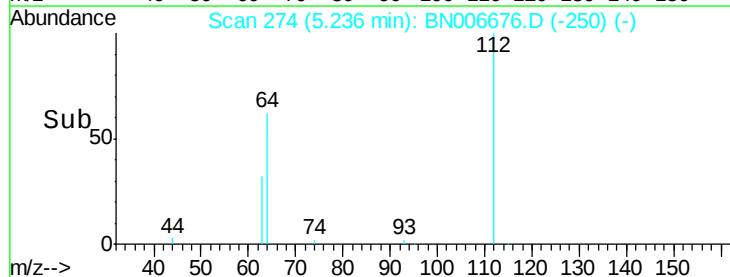
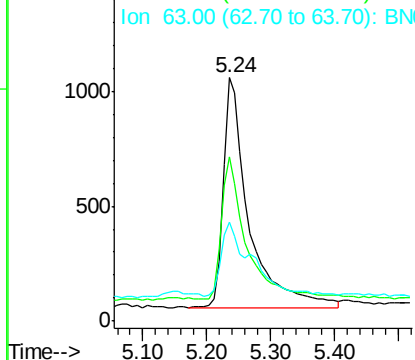
#4

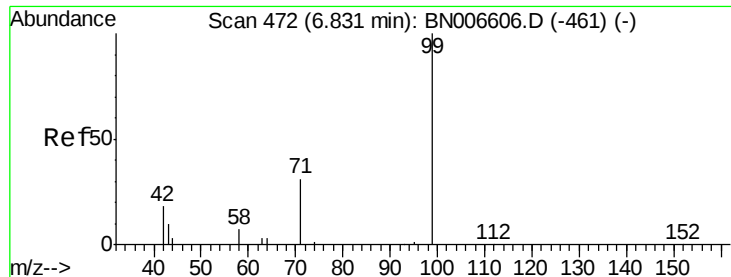
2-Fluorophenol
Concen: 0.268 ng
RT: 5.24 min Scan# 274
Delta R.T. -0.01 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.5	48.9	73.3
63	39.0	24.3	36.5



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: 0.276 ng

RT: 6.81 min Scan# 470

Delta R.T. -0.02 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

Instrument :

BNA_N

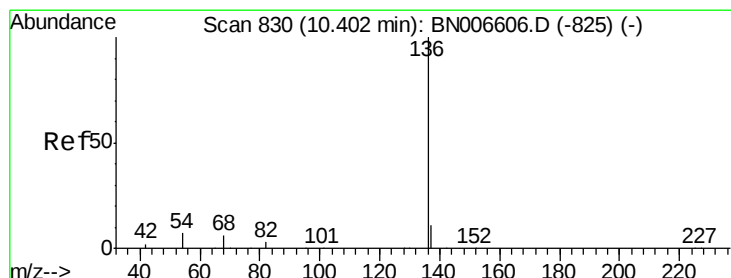
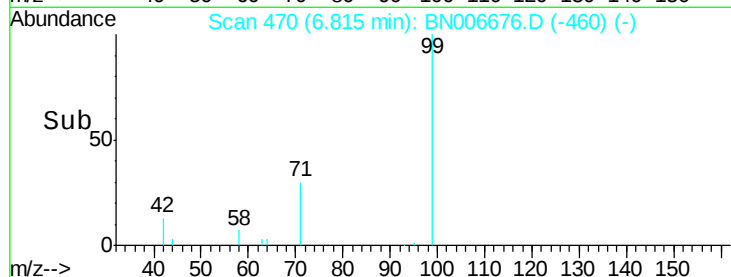
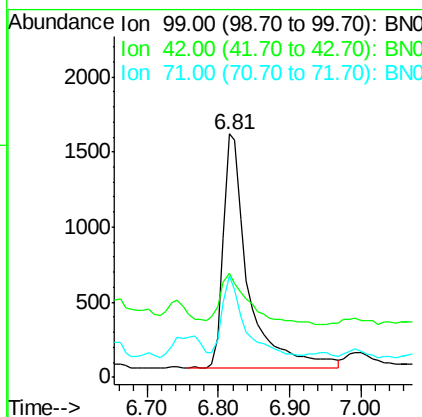
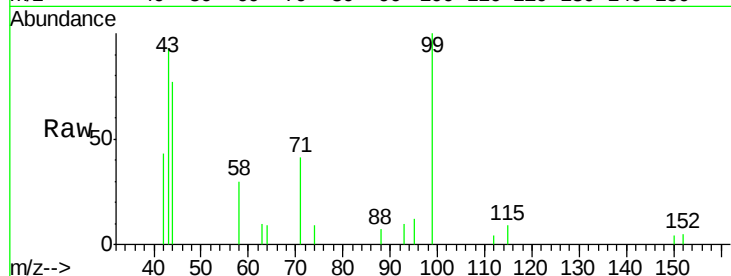
ClientSampleId :

PST-013-B214-062019

Tot Ion:	99	Resp:	3729
Ion	Ratio	Lower	Upper
99	100		
42	26.4	16.4	24.6#
71	29.8	26.6	40.0

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#7

Naphthalene-d8

Concen: 0.400 ng

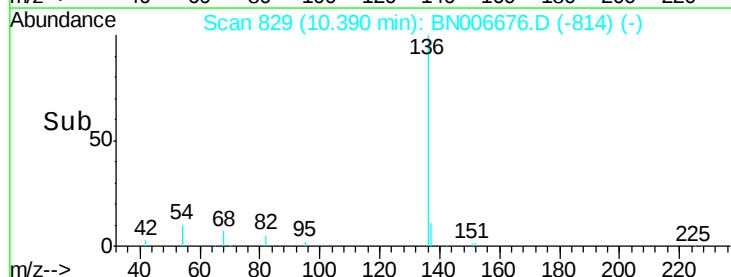
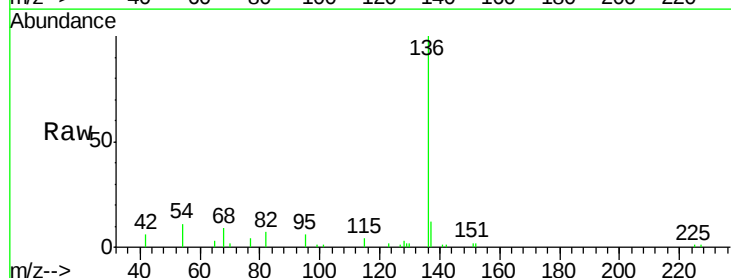
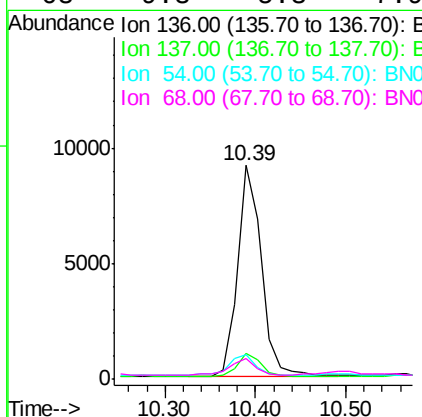
RT: 10.39 min Scan# 829

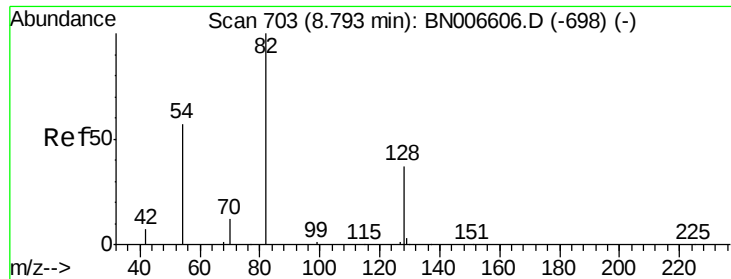
Delta R.T. -0.01 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

Tgt Ion:	136	Resp:	16740
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.3	13.9
54	11.1	6.7	10.1#
68	9.3	5.3	7.9#





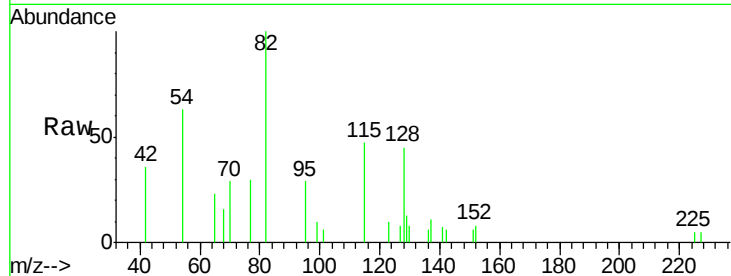
#8
Nitrobenzene-d5
Concen: 0.249 ng
RT: 8.78 min Scan# 702
Delta R.T. -0.01 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Instrument :
BNA_N
ClientSampleId :
PST-013-B214-062019

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.6	32.6	49.0
54	62.8	48.2	72.4

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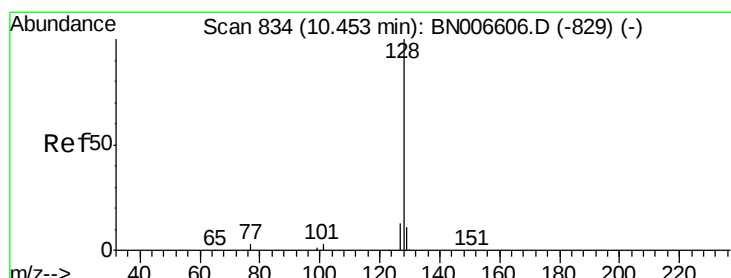
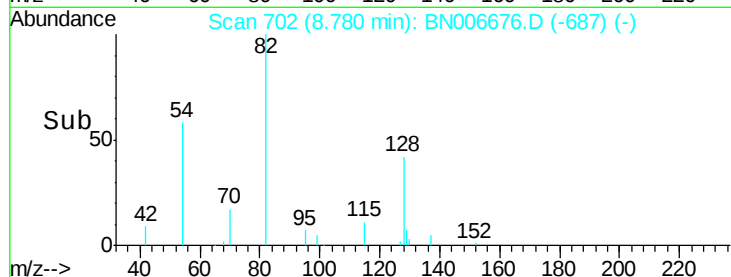
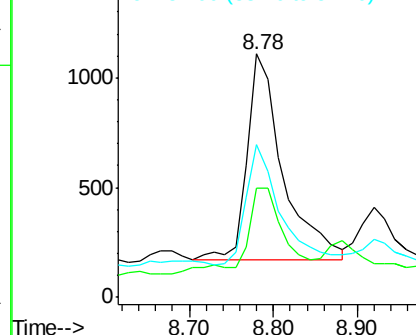


Abundance

Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): BNC

Ion 54.00 (53.70 to 54.70): BNC



#9
Naphthalene
Concen: 2.154 ng
RT: 10.44 min Scan# 833
Delta R.T. -0.01 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

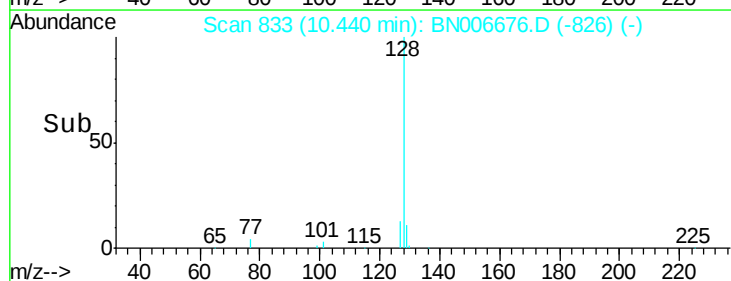
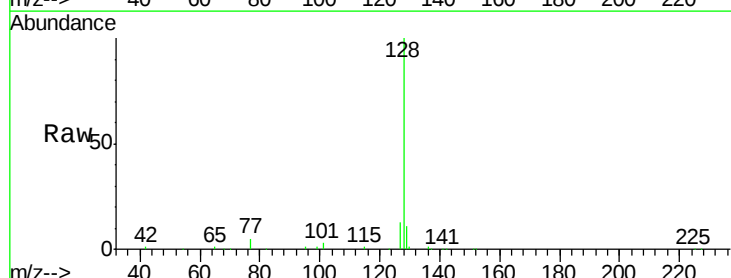
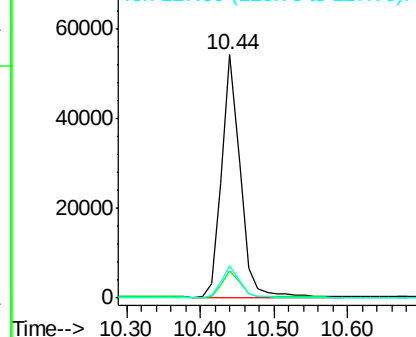
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.3	13.9
127	13.1	10.8	16.2

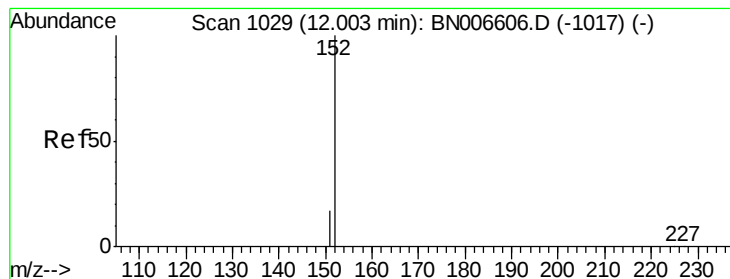
Abundance

Ion 128.00 (127.70 to 128.70): BNC

Ion 129.00 (128.70 to 129.70): BNC

Ion 127.00 (126.70 to 127.70): BNC





#11

2-Methyl-naphthalene-d10

Concen: 0.229 ng

RT: 11.99 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

Instrument :

BNA_N

ClientSampleId :

PST-013-B214-062019

Tot Ion:152 Resp: 6049

Ion Ratio Lower Upper

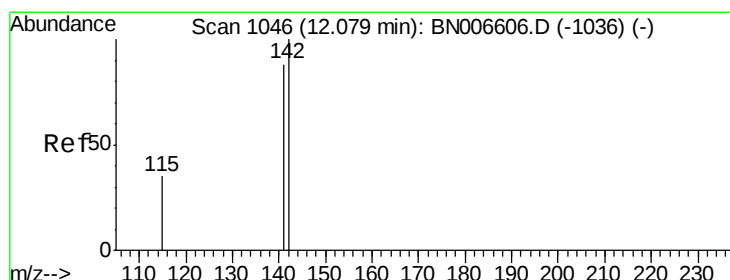
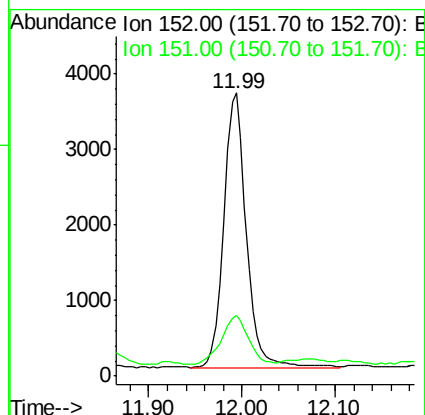
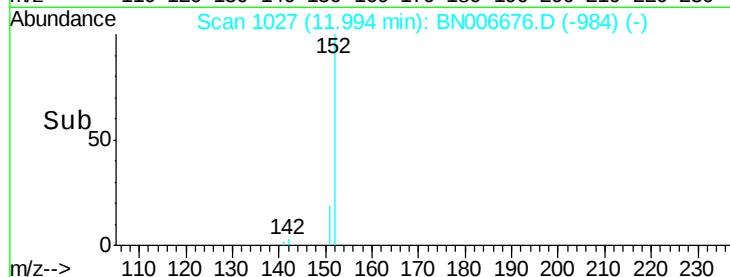
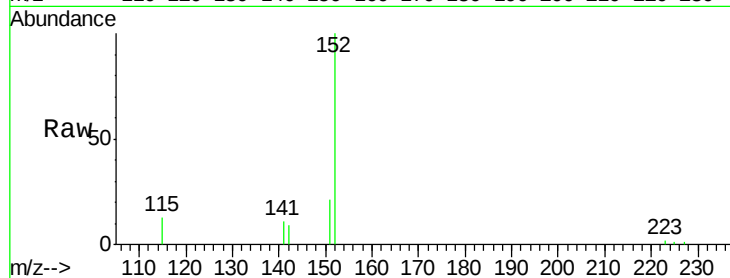
152 100

151 21.5 15.0 22.4

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#12

2-Methylnaphthalene

Concen: 2.571 ng

RT: 12.07 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

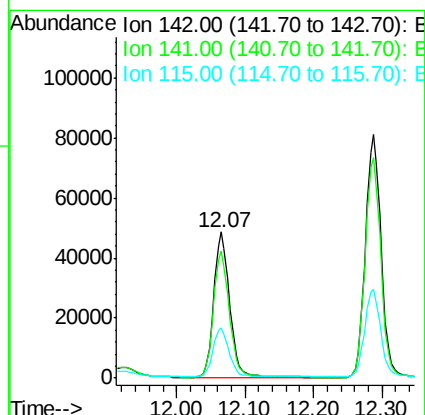
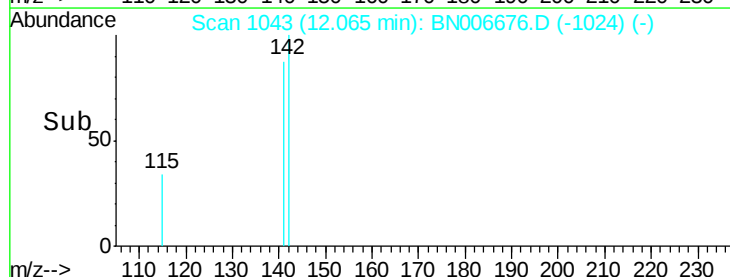
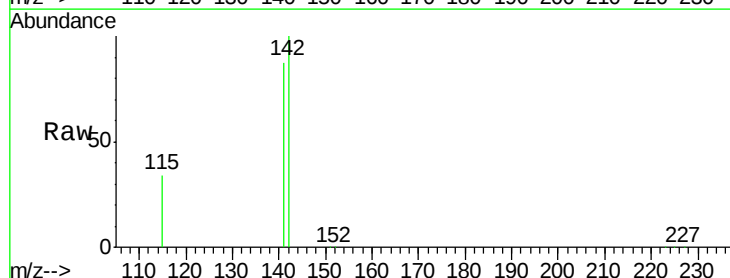
Tgt Ion:142 Resp: 78162

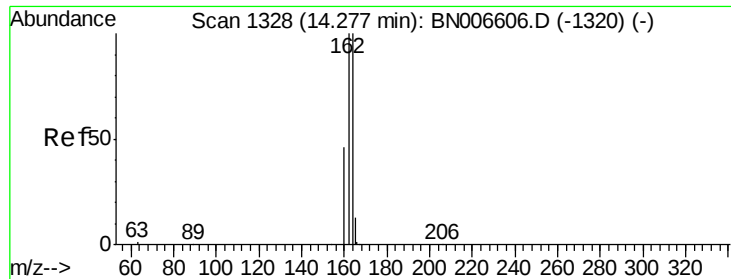
Ion Ratio Lower Upper

142 100

141 87.1 70.2 105.4

115 34.5 28.5 42.7





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.27 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

Instrument :

BNA_N

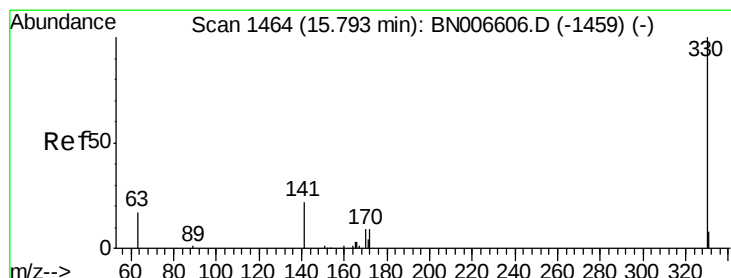
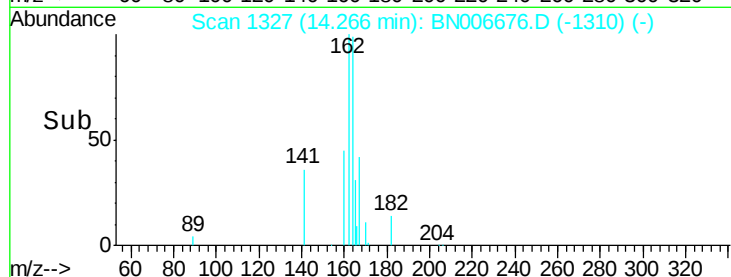
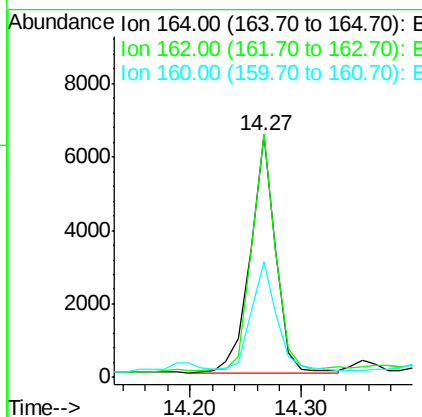
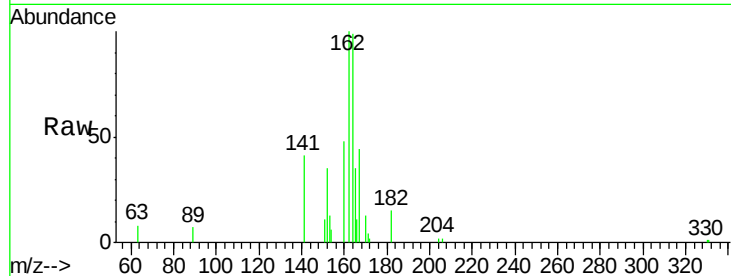
ClientSampleId :

PST-013-B214-062019

Tot Ion:	164	Resp:	10195
Ion Ratio	Lower	Upper	
164	100		
162	100.5	80.0	120.0
160	47.8	37.0	55.4

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#14

2,4,6-Tribromophenol

Concen: 0.255 ng

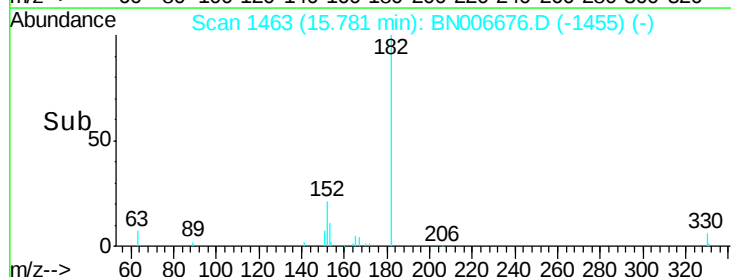
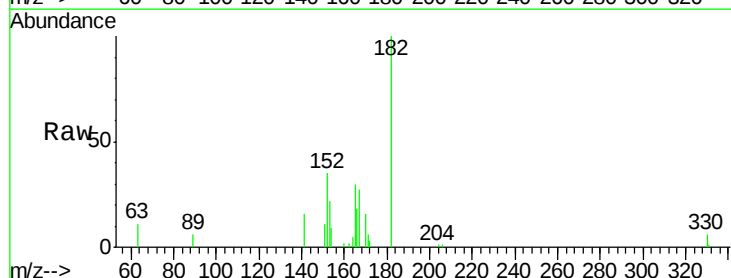
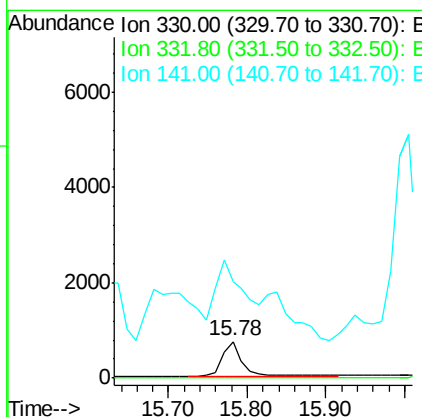
RT: 15.78 min Scan# 1463

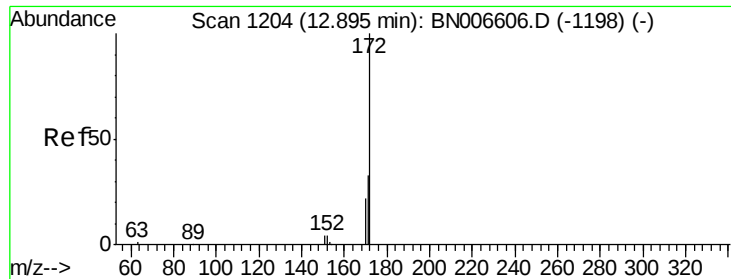
Delta R.T. -0.01 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

Tgt Ion:	330	Resp:	1222
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	225.6	26.5	39.7#





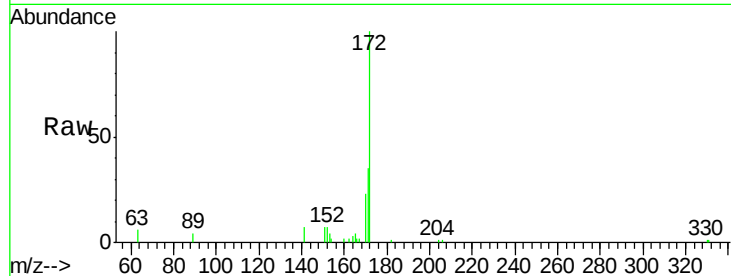
#15
2-Fluorobiphenyl
Concen: 0.202 ng
RT: 12.88 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Instrument :
BNA_N
ClientSampleId :
PST-013-B214-062019

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.0	40.4
170	23.2	17.7	26.5

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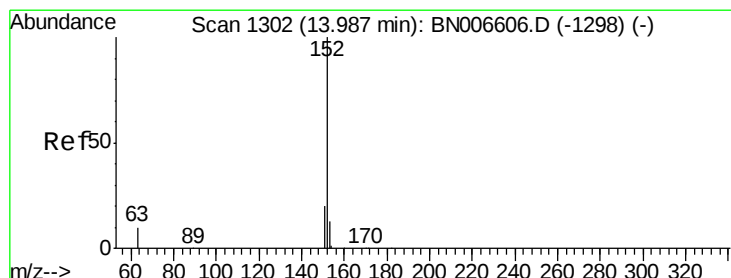
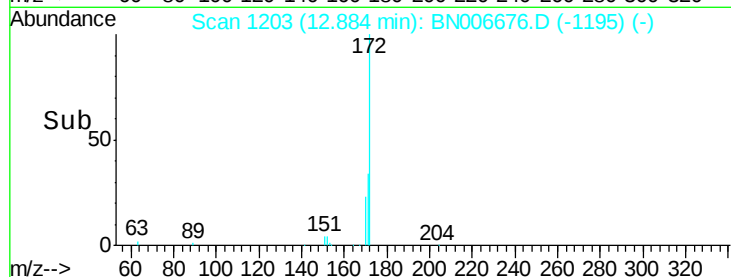
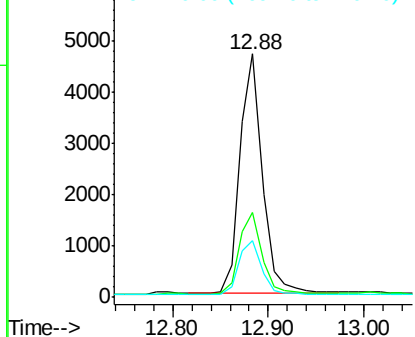


Abundance

Ion 172.00 (171.70 to 172.70): E

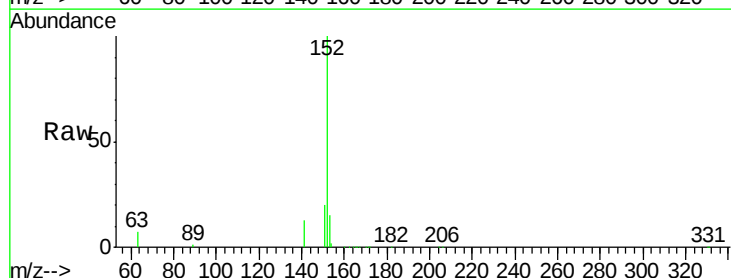
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 8.038 ng
RT: 13.99 min Scan# 1302
Delta R.T. -0.00 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.6	23.4
153	14.3	10.5	15.7

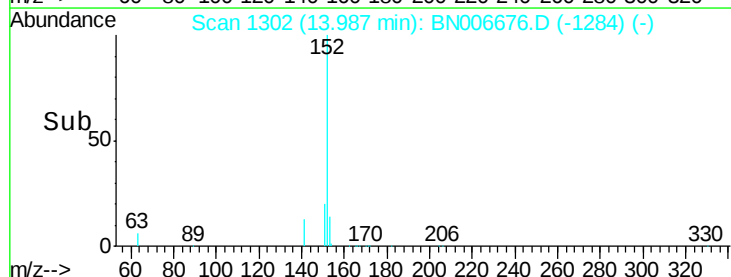
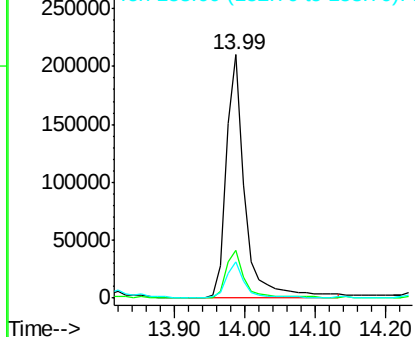


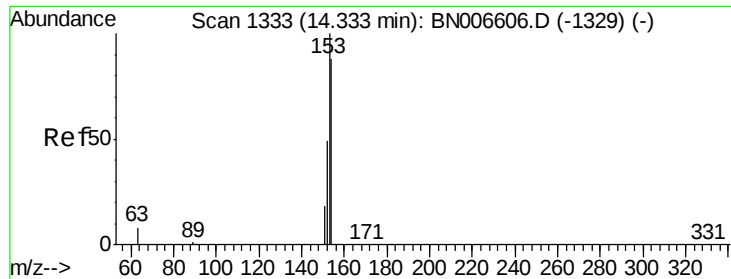
Abundance

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





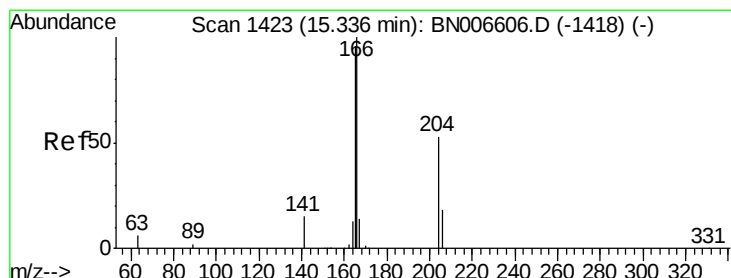
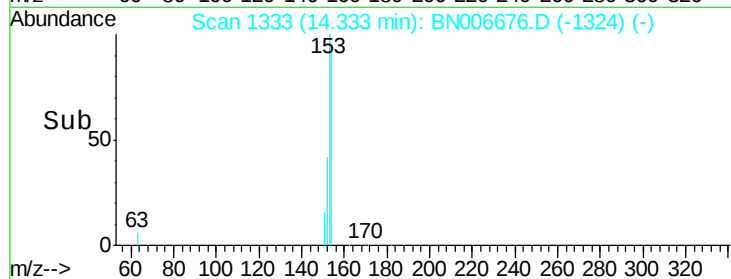
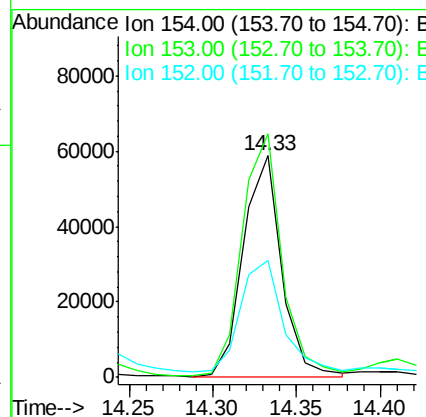
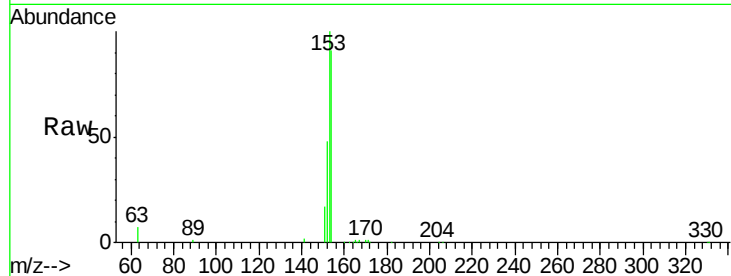
#17
Acenaphthene
Concen: 2.882 ng
RT: 14.33 min Scan# 1333
Delta R.T. -0.00 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Instrument :
BNA_N
ClientSampleId :
PST-013-B214-062019

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.6	90.2	135.4
152	55.9	44.2	66.4

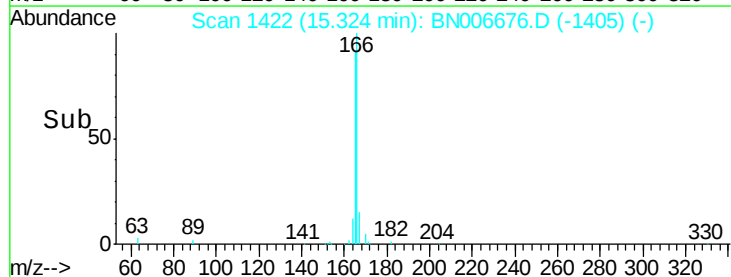
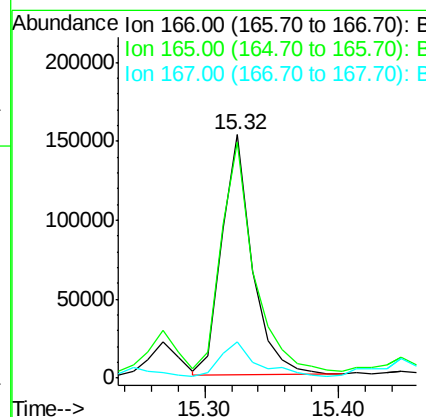
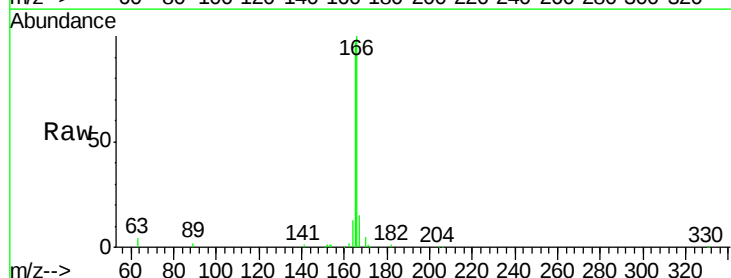
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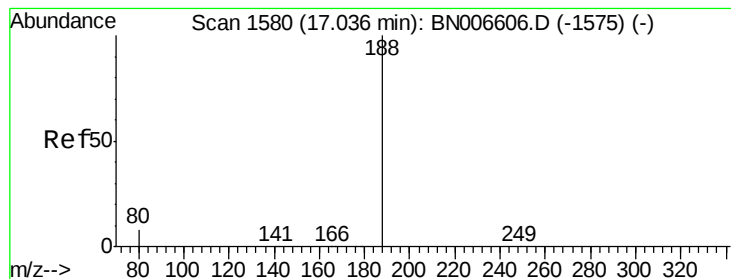
mohammad
7/2/2019 2:52:57 PM



#18
Fluorene
Concen: 5.974 ng
RT: 15.32 min Scan# 1422
Delta R.T. -0.01 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.2	78.4	117.6
167	17.1	10.8	16.2#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.03 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

Instrument :

BNA_N

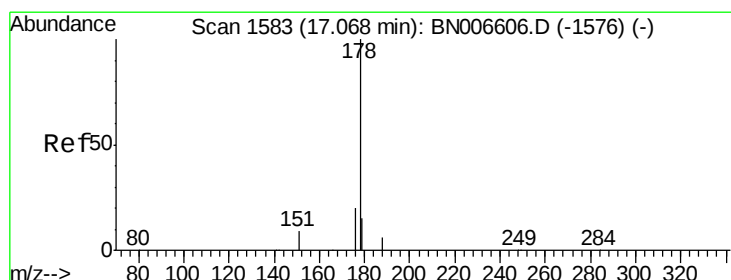
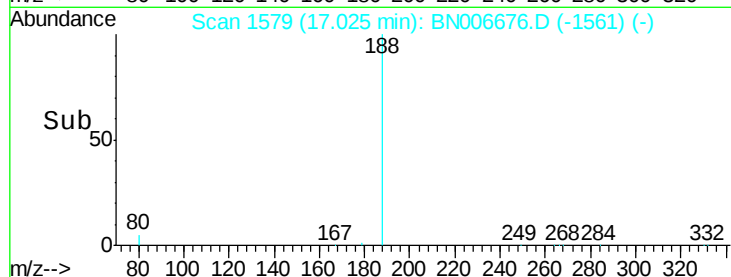
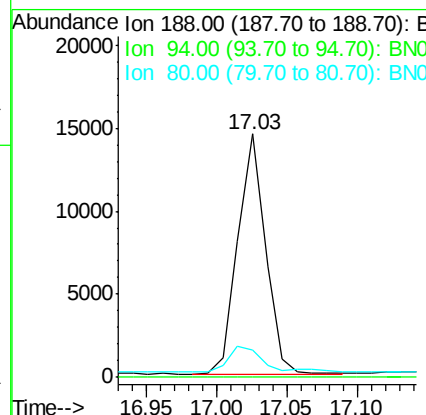
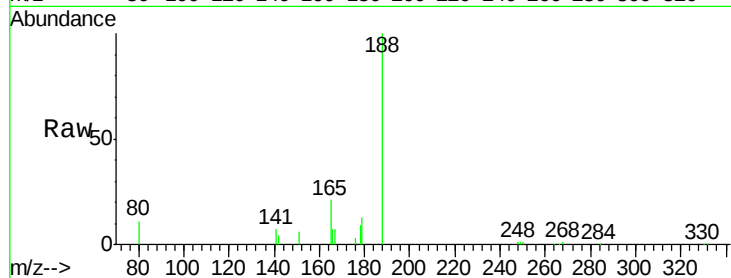
ClientSampleId :

PST-013-B214-062019

Tot Ion:	188	Resp:	19815
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.3	7.1	10.7

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#23

Phenanthrene

Concen: 51.804 ng

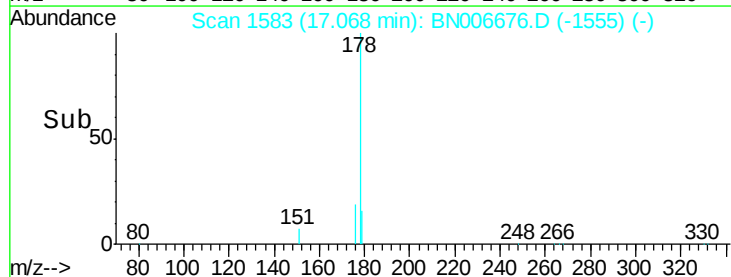
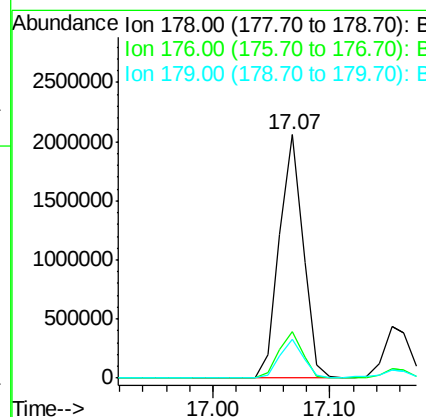
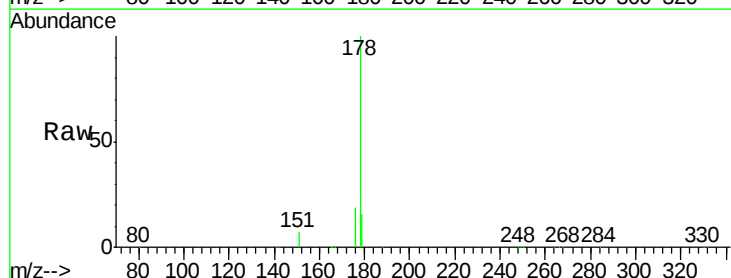
RT: 17.07 min Scan# 1583

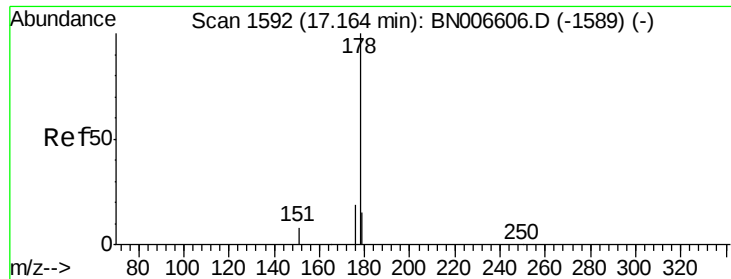
Delta R.T. -0.00 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

Tgt Ion:	178	Resp:	2918761
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.3	22.9
179	16.0	12.2	18.4





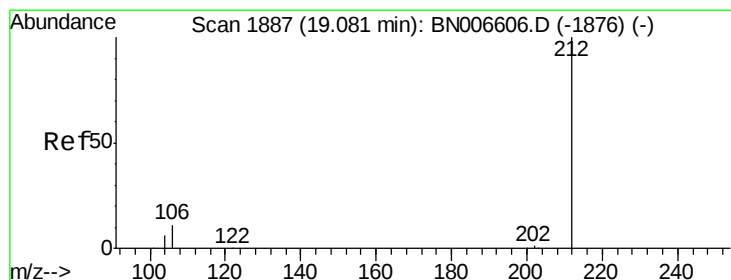
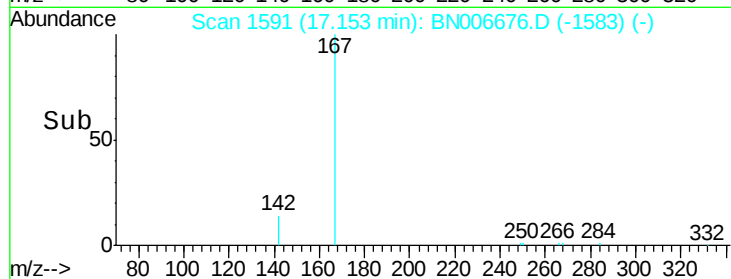
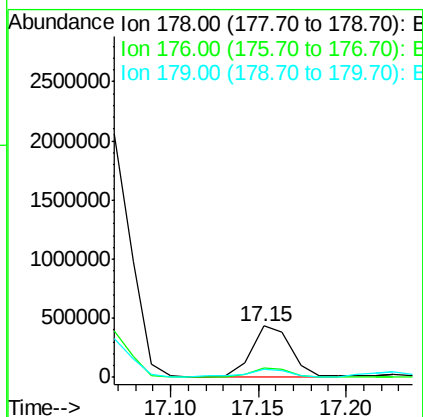
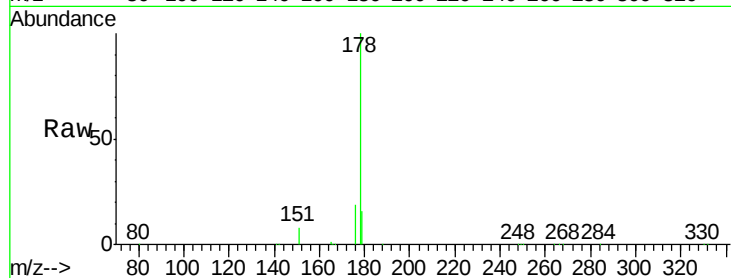
#24
 Anthracene
 Concen: 13.517 ng
 RT: 17.15 min Scan# 1591
 Delta R.T. -0.01 min
 Lab File: BN006676.D
 Acq: 02 Jul 2019 01:42

Instrument :
 BNA_N
 ClientSampleId :
 PST-013-B214-062019

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.4
179	15.8	12.2	18.2

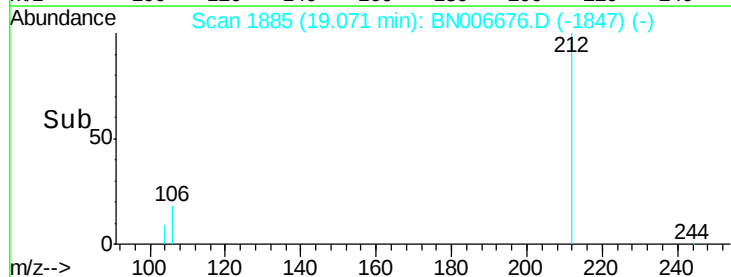
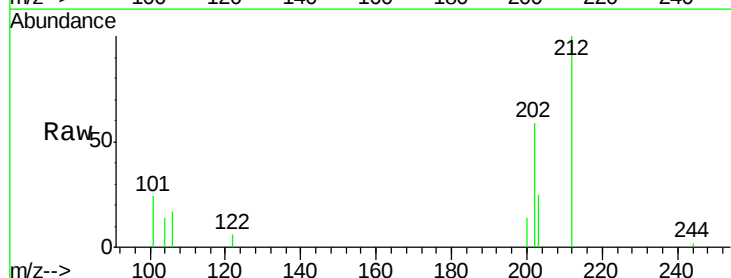
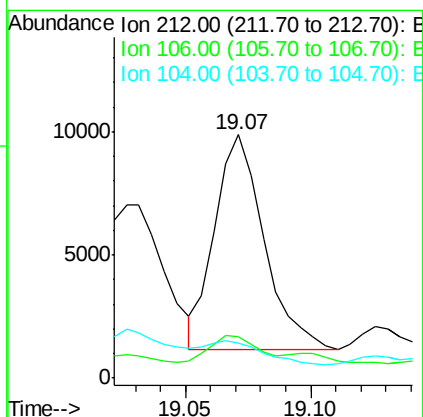
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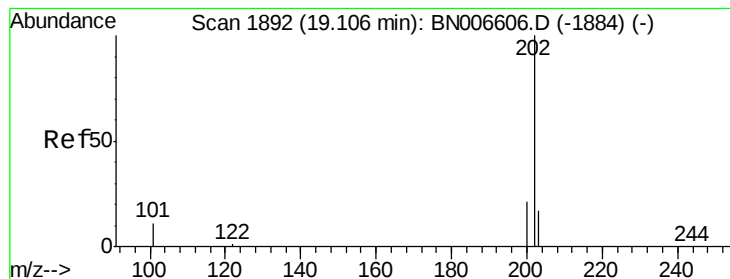
mohammad
 7/2/2019 2:52:57 PM



#25
 Fluoranthene-d10
 Concen: 0.204 ng
 RT: 19.07 min Scan# 1885
 Delta R.T. -0.01 min
 Lab File: BN006676.D
 Acq: 02 Jul 2019 01:42

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.9	10.6	15.8
104	13.1	5.8	8.6#





#26

Fluoranthene

Concen: 37.165 ng

RT: 19.10 min Scan# 1891

Delta R.T. -0.01 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

Instrument :

BNA_N

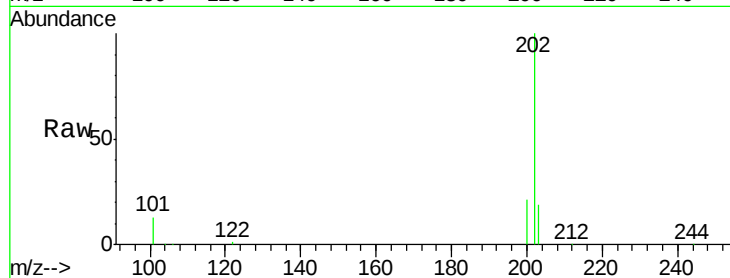
ClientSampleId :

PST-013-B214-062019

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.5	8.9	13.3
203	18.4	13.6	20.4

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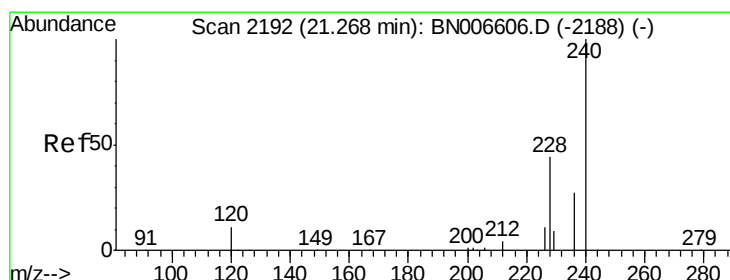
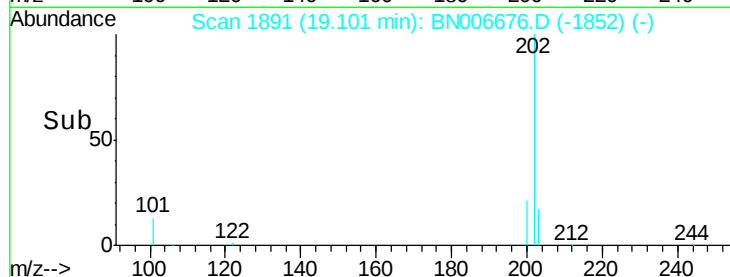
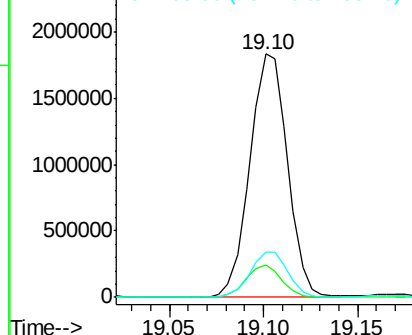


Abundance Ion 202.00 (201.70 to 202.70): E

2500000

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# 2190

Delta R.T. -0.02 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

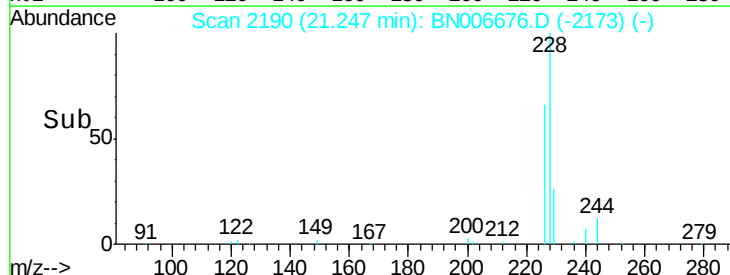
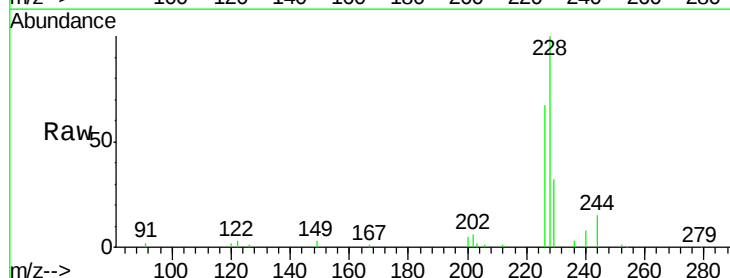
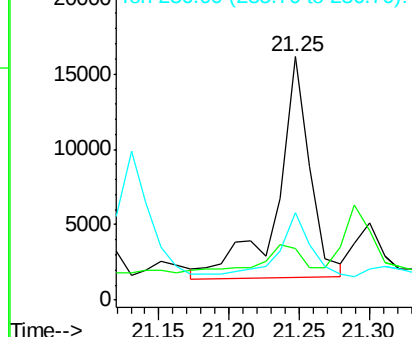
Tgt Ion	Ratio	Lower	Upper
240	100		
120	21.4	9.9	14.9#
236	35.9	22.2	33.4#

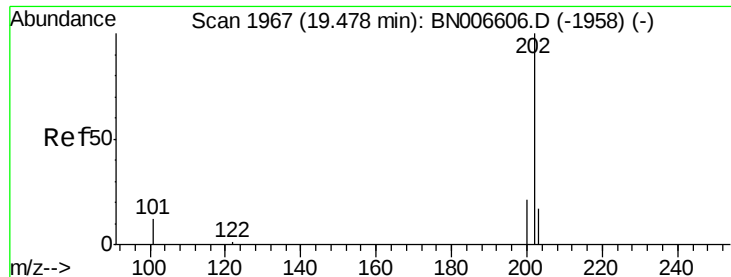
Abundance Ion 240.00 (239.70 to 240.70): E

20000

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





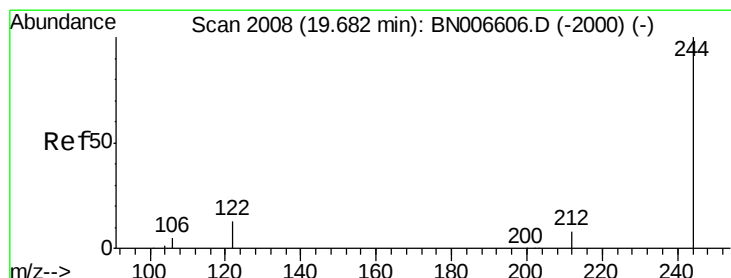
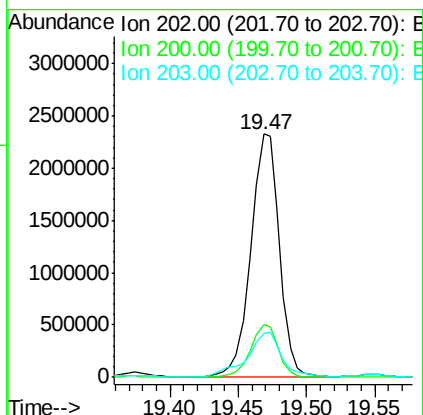
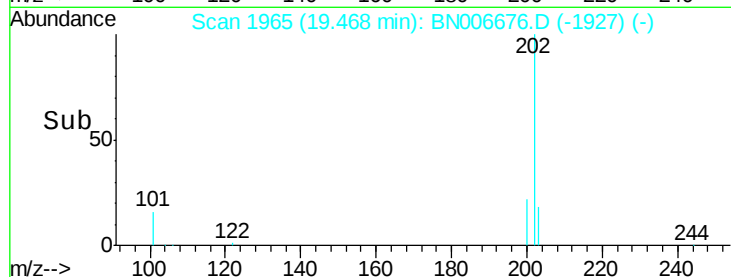
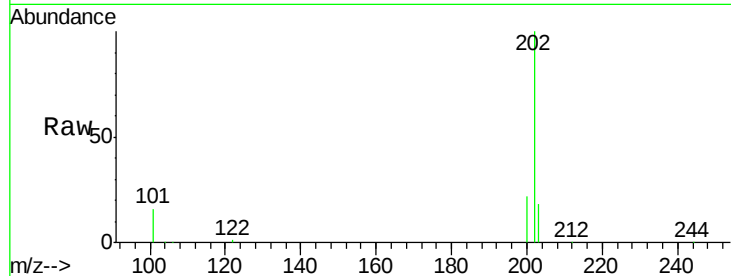
#28
Pvrene
Concen: 40.643 ng
RT: 19.47 min Scan# 1965
Delta R.T. -0.01 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Instrument :
BNA_N
ClientSampleId :
PST-013-B214-062019

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.7	25.1
203	22.2	14.1	21.1

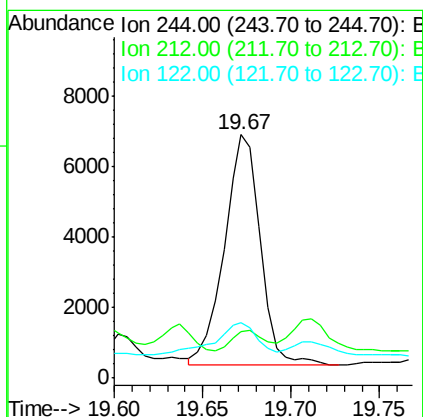
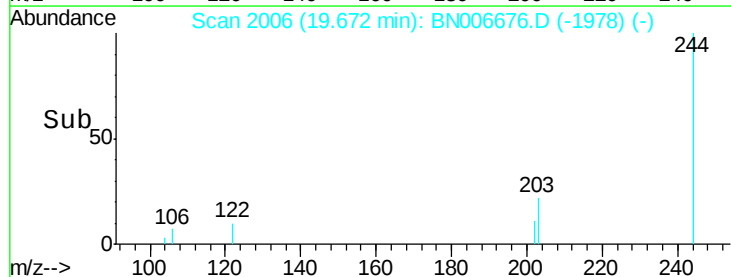
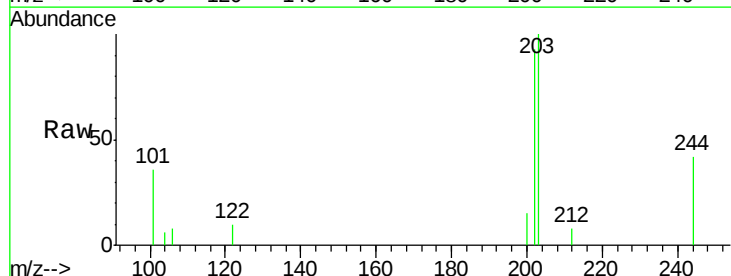
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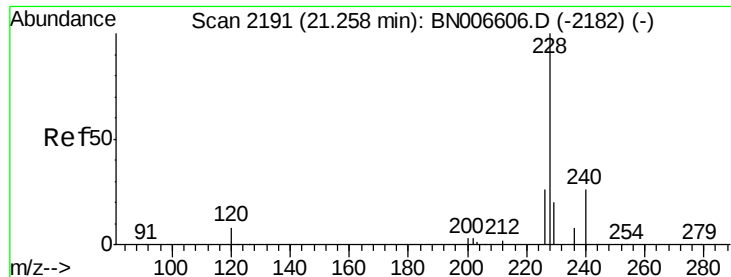
mohammad
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#29
Terphenyl-d14
Concen: 0.188 ng
RT: 19.67 min Scan# 2006
Delta R.T. -0.01 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Tgt Ion	Ratio	Lower	Upper
244	100		
212	19.0	6.7	10.1
122	22.7	11.0	16.6





#30

Benzo(a)anthracene

Concen: 21.431 ng

RT: 21.24 min Scan# 2189

Delta R.T. -0.02 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

Instrument :

BNA_N

ClientSampleId :

PST-013-B214-062019

Tot Ion:228 Resp: 1657737

Ion Ratio Lower Upper

228 100

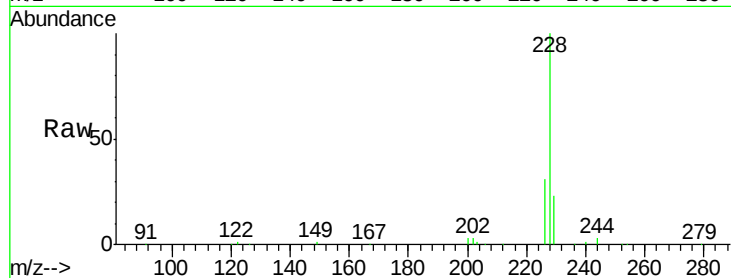
226 31.0 21.2 31.8

229 23.0 16.1 24.1

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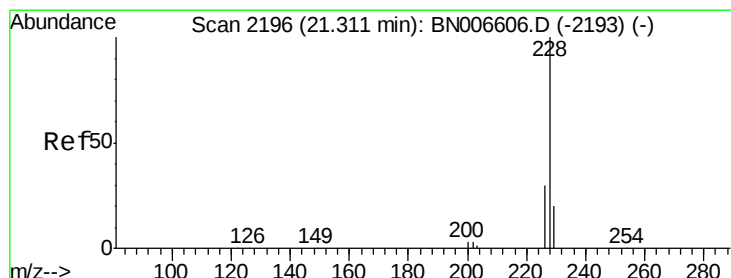
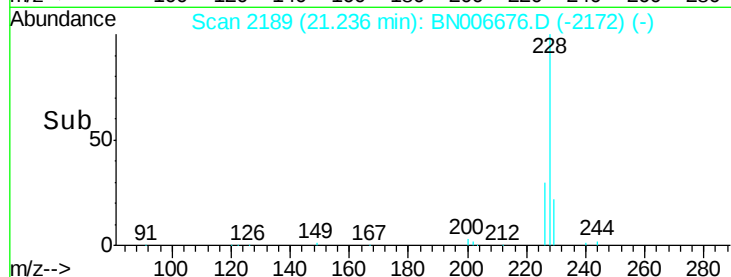
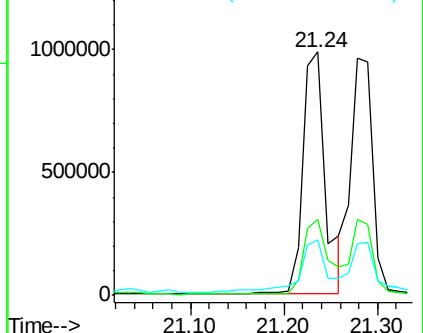
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 18.530 ng

RT: 21.28 min Scan# 2193

Delta R.T. -0.03 min

Lab File: BN006676.D

Acq: 02 Jul 2019 01:42

Tgt Ion:228 Resp: 1545180

Ion Ratio Lower Upper

228 100

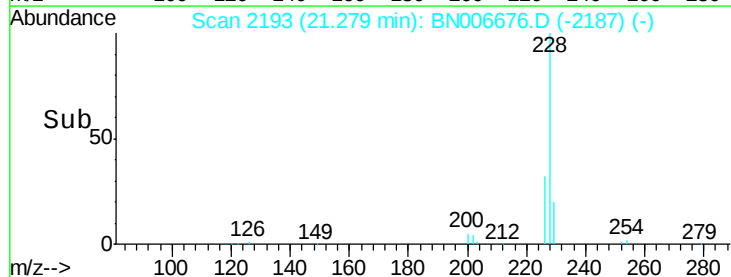
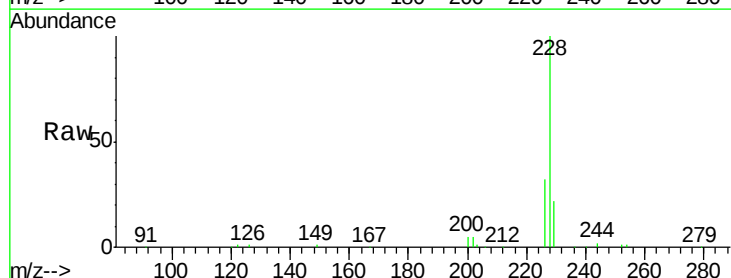
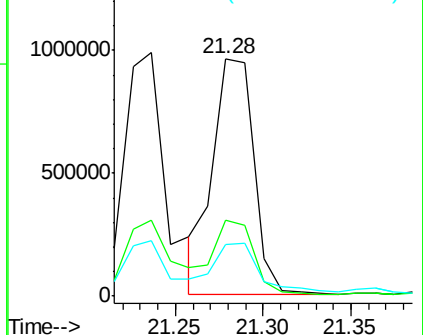
226 32.1 23.8 35.6

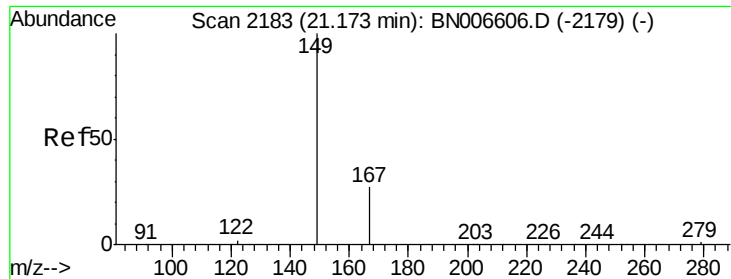
229 21.9 15.9 23.9

Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





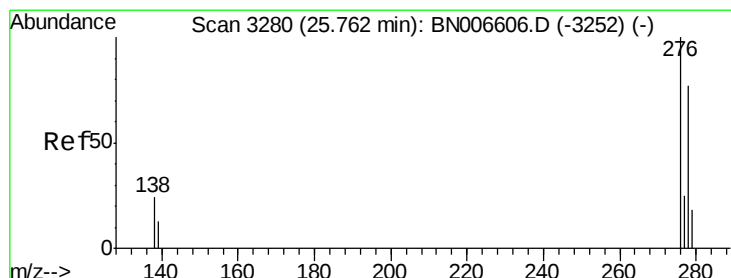
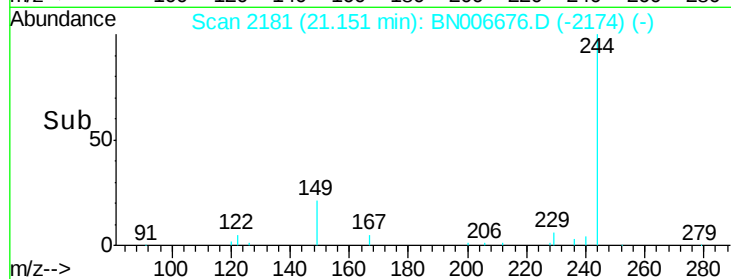
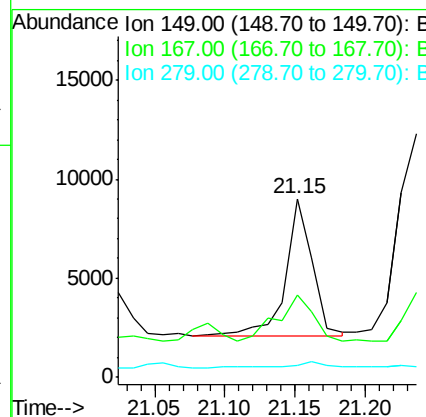
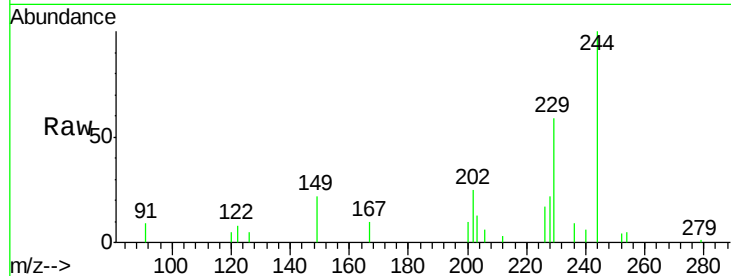
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.233 ng
 RT: 21.15 min Scan# 2181
 Delta R.T. -0.02 min
 Lab File: BN006676.D
 Acq: 02 Jul 2019 01:42

Instrument :
 BNA_N
 ClientSampleId :
 PST-013-B214-062019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
149	100		9072		
167	48.0	22.9	34.3#		
279	5.0	3.3	4.9#		

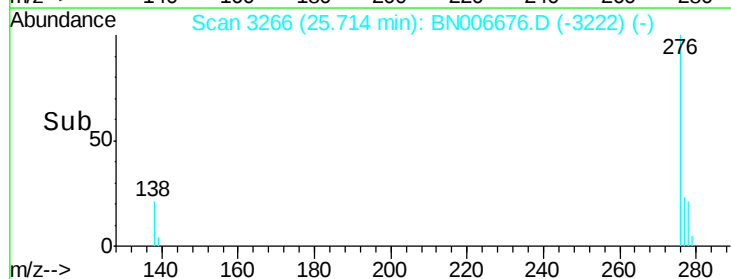
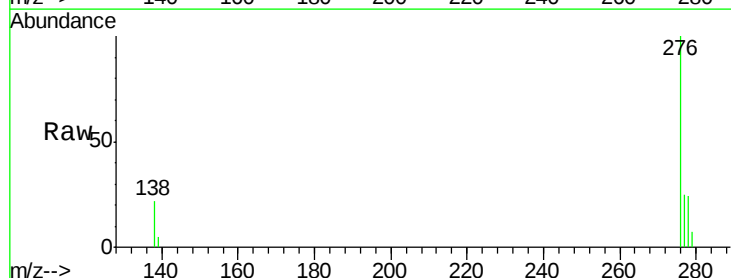
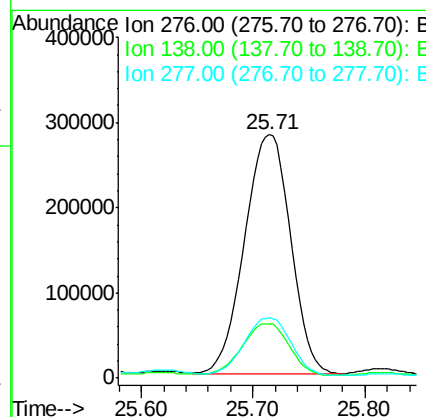
Manual Integrations
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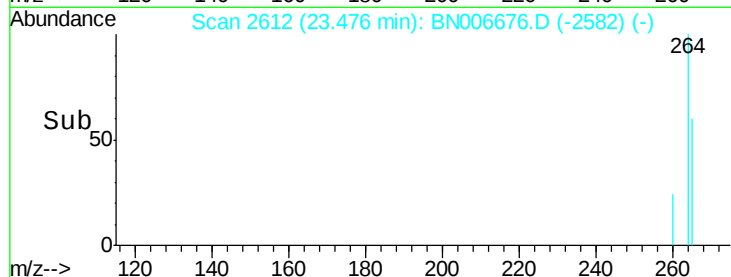
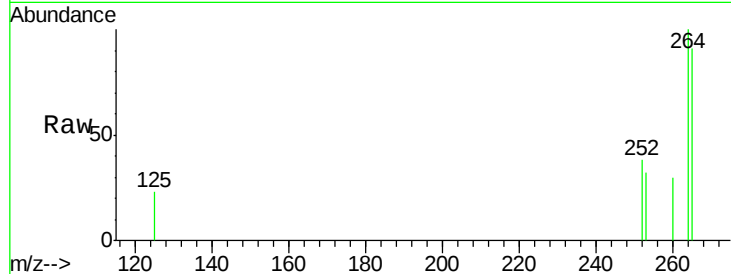
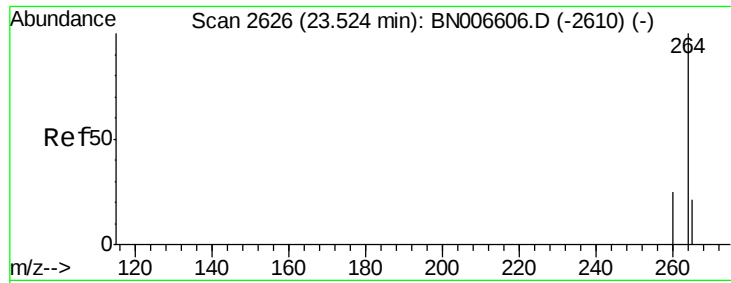
mohammad
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#33
 Indeno(1,2,3-cd)pyrene
 Concen: 9.497 ng
 RT: 25.71 min Scan# 3266
 Delta R.T. -0.05 min
 Lab File: BN006676.D
 Acq: 02 Jul 2019 01:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
276	100		801615		
138	22.3	19.3	28.9		
277	24.6	19.9	29.9		





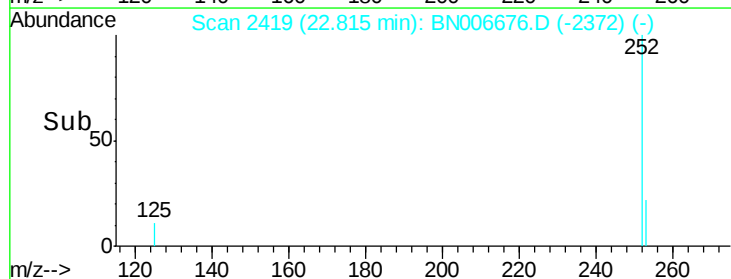
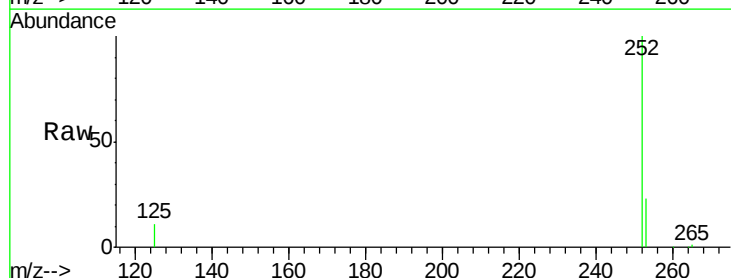
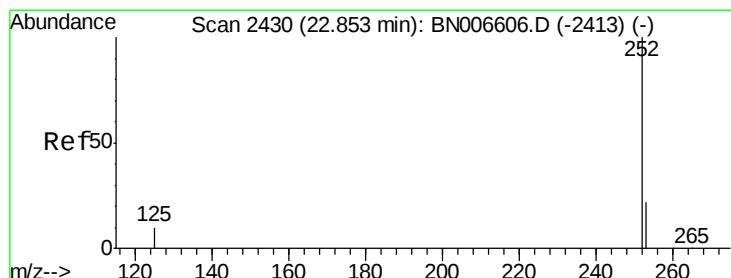
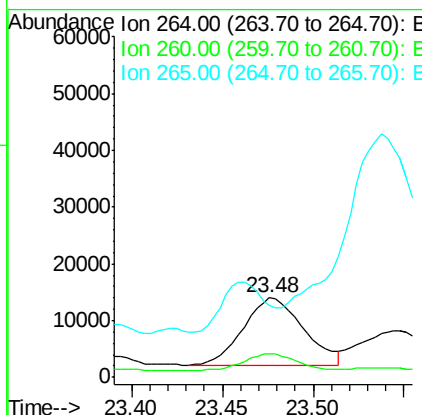
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.48 min Scan# 2612
Delta R.T. -0.05 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Tot Ion	Ratio	Lower	Upper
264	100		
260	30.1	20.2	30.2
265	91.0	23.3	34.9

Instrument :
BNA_N
ClientSampleId :
PST-013-B214-062019

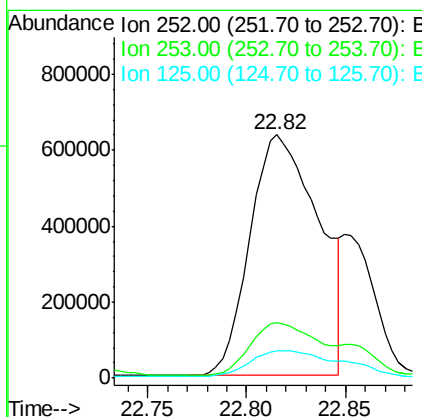
Manual Integrations
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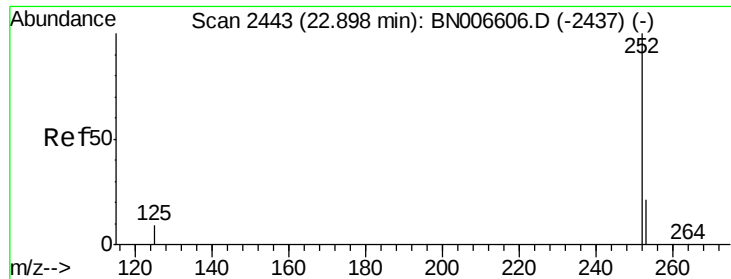
mohammad
7/2/2019 2:52:57 PM



#35
Benzo(b)fluoranthene
Concen: 16.661 ng
RT: 22.82 min Scan# 2419
Delta R.T. -0.04 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.4	27.6
125	11.3	8.7	13.1





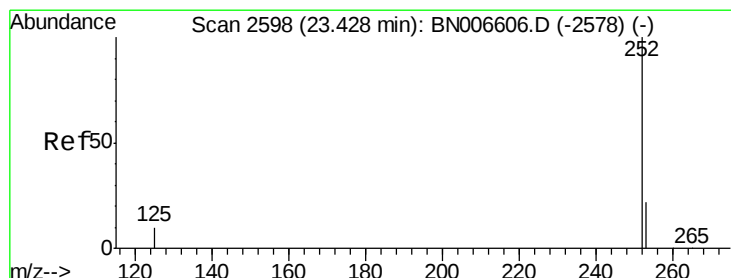
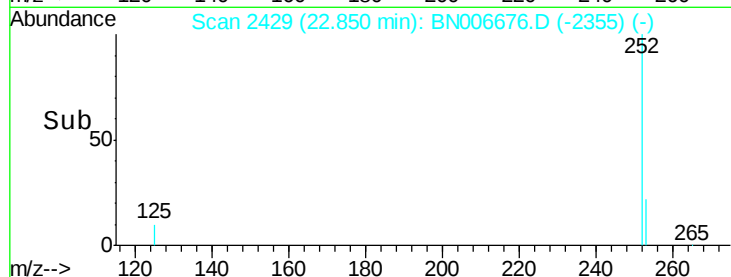
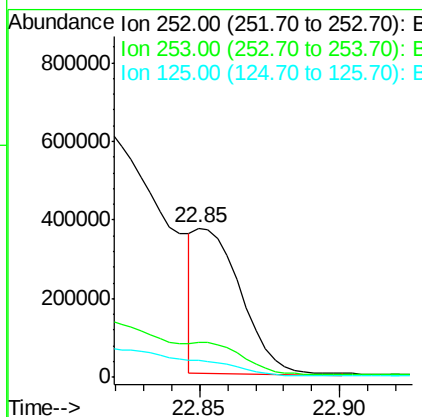
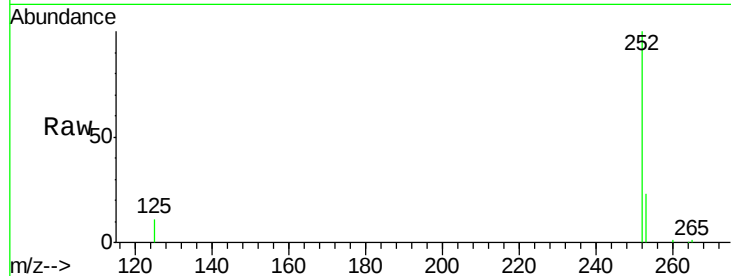
#36
Benzo(k)fluoranthene
Concen: 4.341 ng m
RT: 22.85 min Scan# 2429
Delta R.T. -0.05 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Instrument :
BNA_N
ClientSampleId :
PST-013-B214-062019

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.3	27.5
125	11.4	8.4	12.6

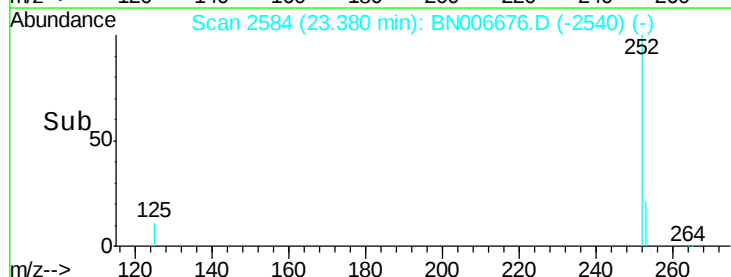
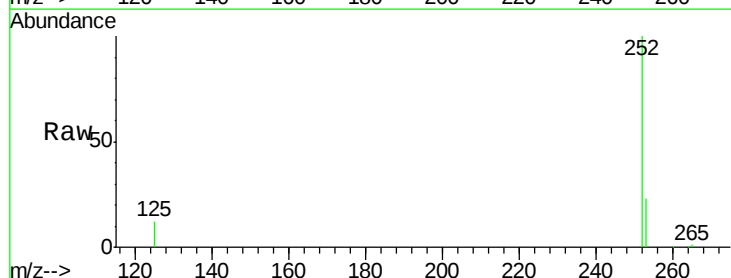
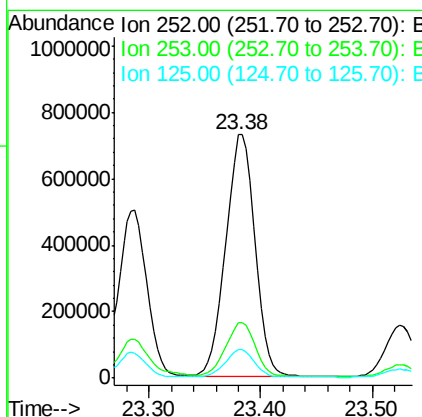
Manual Integrations
APPROVED

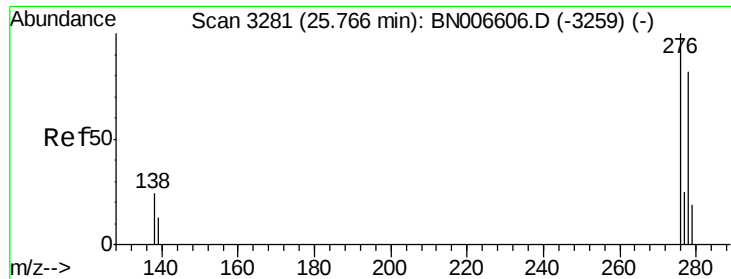
mohammad
7/2/2019 2:52:57 PM



#37
Benzo(a)pyrene
Concen: 15.391 ng
RT: 23.38 min Scan# 2584
Delta R.T. -0.05 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.8	28.2
125	11.7	9.4	14.2





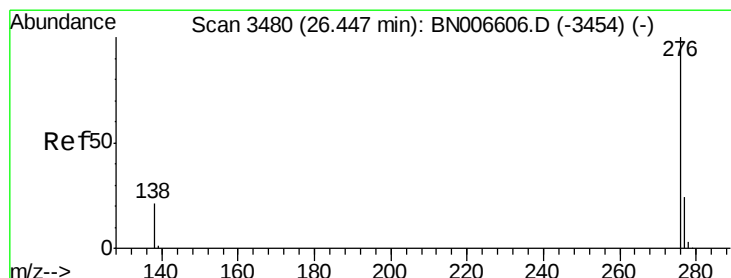
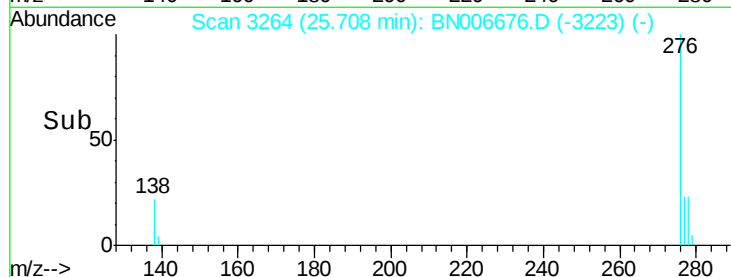
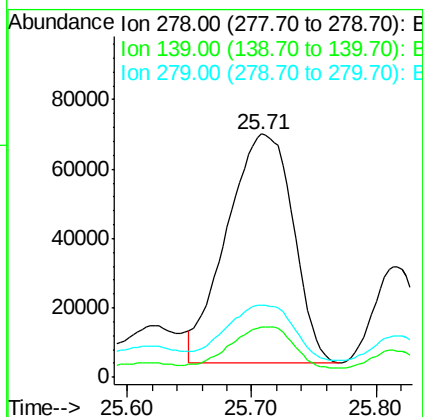
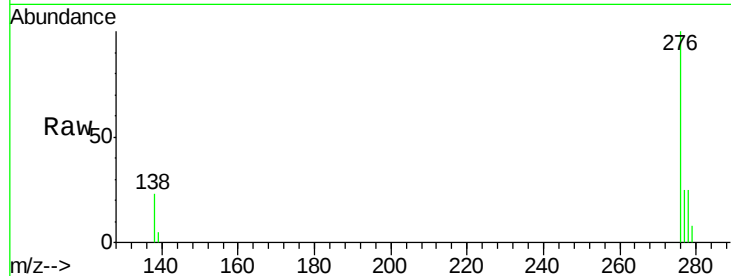
#38
Dibenzo(a,h)anthracene
Concen: 3.264 ng
RT: 25.71 min Scan# 3264
Delta R.T. -0.06 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Instrument :
BNA_N
ClientSampleId :
PST-013-B214-062019

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.9	13.5	20.3#
279	29.9	19.4	29.2#

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:57 PM



#39
Benzo(g,h,i)perylene
Concen: 11.607 ng
RT: 26.40 min Scan# 3466
Delta R.T. -0.05 min
Lab File: BN006676.D
Acq: 02 Jul 2019 01:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.6	29.4
138	22.8	17.7	26.5

