

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN093019\
 Data File : BN007896.D
 Acq On : 30 Sep 2019 14:42
 Operator : JU
 Sample : K5077-21
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW136-092619

Manual Integrations
 APPROVED

mohammad
 10/2/2019 8:21:21 AM

Quant Time: Oct 01 07:17:36 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Sep 18 18:24:40 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	9184	0.40	ng	0.00
7) Naphthalene-d8	10.46	136	34809	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	20591	0.40	ng	-0.01
19) Phenanthrene-d10	17.06	188	37572	0.40	ng	-0.01
27) Chrysene-d12	21.26	240	42244	0.40	ng	-0.01
34) Perylene-d12	23.47	264	50829	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.31	112	1391	0.04	ng	0.00
5) Phenol-d6	6.87	99	2331	0.05	ng	0.00
8) Nitrobenzene-d5	8.83	82	2976	0.10	ng	0.00
11) 2-Methylnaphthalene-d10	12.05	152	6398	0.11	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	381	0.03	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	8702	0.10	ng	-0.01
25) Fluoranthene-d10	19.09	212	13530	0.11	ng	-0.01
29) Terphenyl-d14	19.70	244	12544	0.12	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.51	128	40726	0.417	ng	100
12) 2-Methylnaphthalene	12.13	142	53381	0.808	ng	99
16) Acenaphthylene	14.04	152	267904	2.453	ng	98
17) Acenaphthene	14.38	154	27676	0.393	ng	91
18) Fluorene	15.36	166	123331	1.367	ng	# 92
23) Phenanthrene	17.10	178	1522147	13.005	ng	100
24) Anthracene	17.19	178	242832	2.297	ng	99
26) Fluoranthene	19.12	202	1754000	12.052	ng	99
28) Pyrene	19.49	202	2092734	14.525	ng	97
30) Benzo(a)anthracene	21.24	228	974476	6.264	ng	96
31) Chrysene	21.29	228	1141123	7.527	ng	99
32) Bis(2-ethylhexyl)phthalate	21.19	149	18125	0.227	ng	98
33) Indeno(1,2,3-cd)pyrene	25.68	276	629223	3.315	ng	97
35) Benzo(b)fluoranthene	22.81	252	1183974	6.709	ng	98
36) Benzo(k)fluoranthene	22.86	252	407441m	2.335	ng	
37) Benzo(a)pyrene	23.38	252	941630	5.678	ng	97
38) Dibenzo(a,h)anthracene	25.69	278	167632	0.988	ng	96
39) Benzo(a,h,i)perylene	26.36	276	690357	4.112	ng	99

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

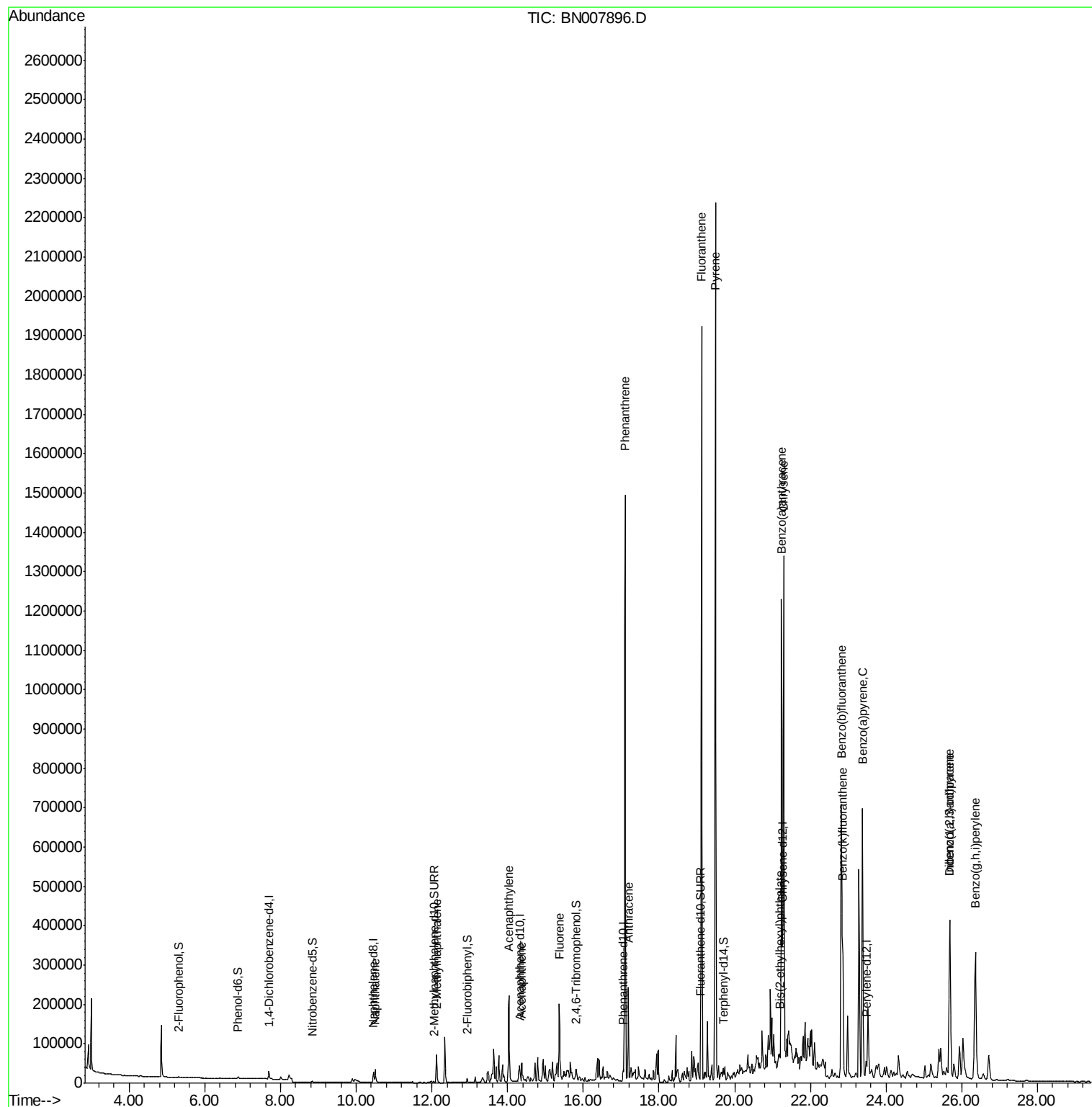
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN093019\
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#1

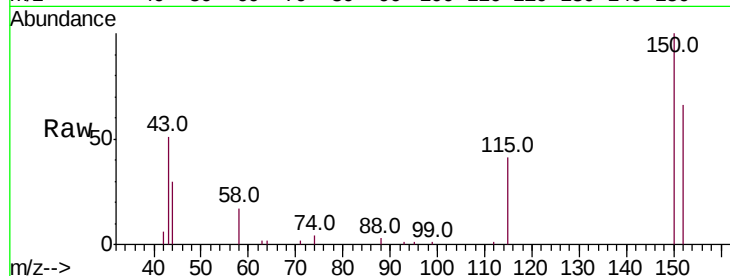
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 604
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Instrument :
BNA_N
ClientSampleId :
PST-024-SW136-092619

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.3	125.6	188.4
115	61.9	53.3	79.9

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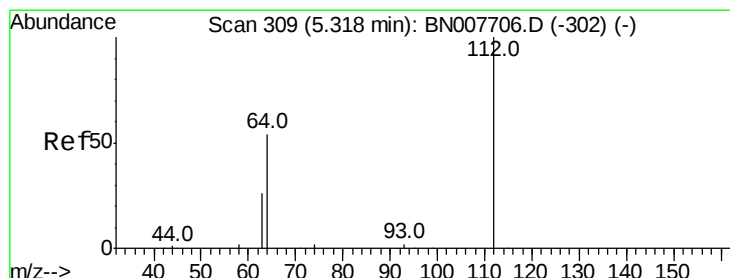
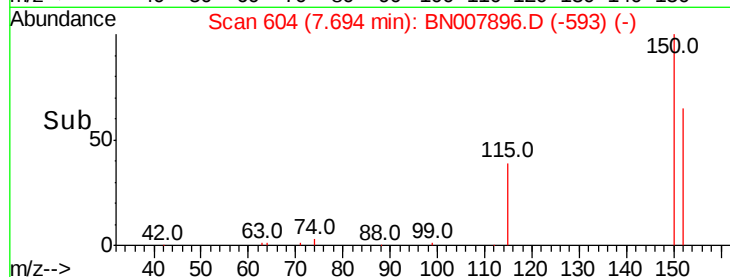
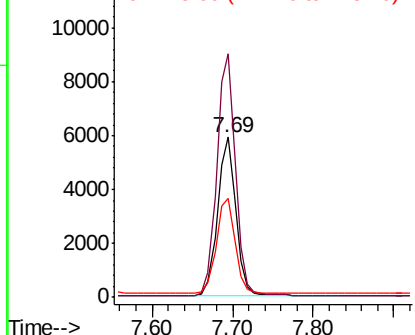


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

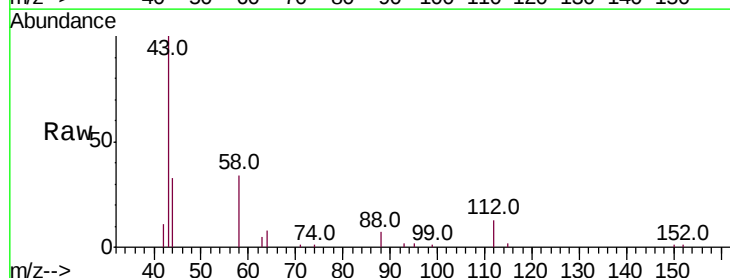
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.044 ng
RT: 5.31 min Scan# 308
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.3	46.6	70.0
63	30.5	23.1	34.7

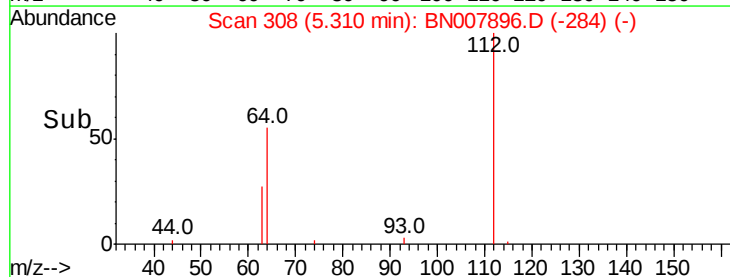
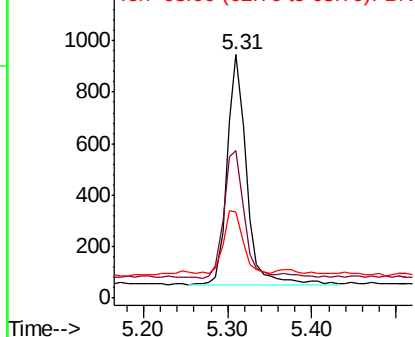


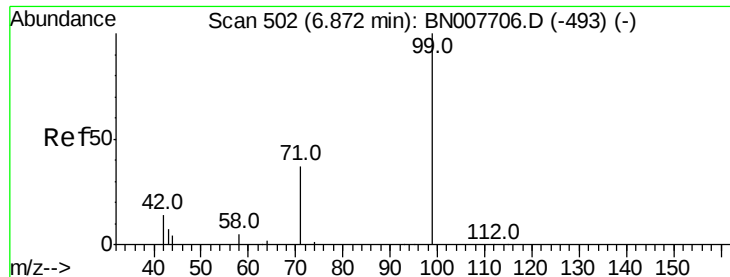
Abundance

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: 0.054 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN007896.D

Acq: 30 Sep 2019 14:42

Instrument :

BNA_N

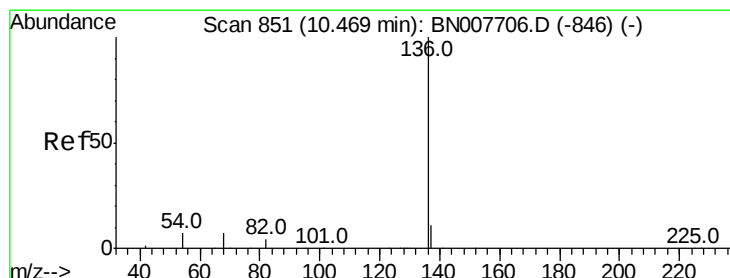
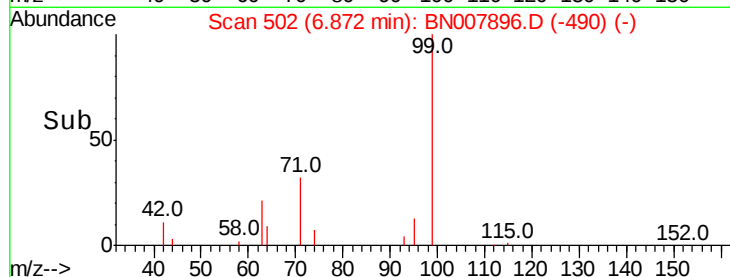
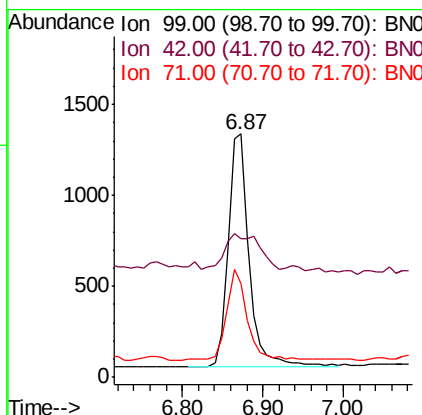
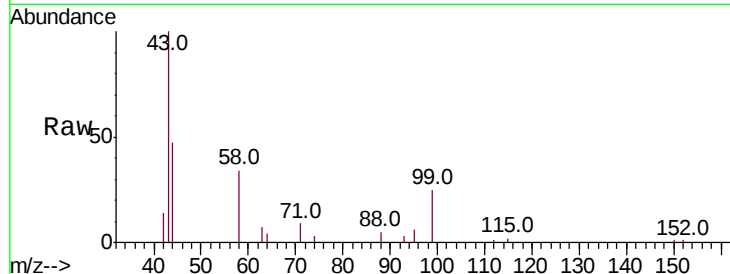
ClientSampleId :

PST-024-SW136-092619

Tot Ion:	99	Resp:	2331
Ion Ratio	Lower	Upper	
99	100		
42	26.3	12.8	19.2#
71	39.8	27.6	41.4

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#7

Naphthalene-d8

Concen: 0.400 ng

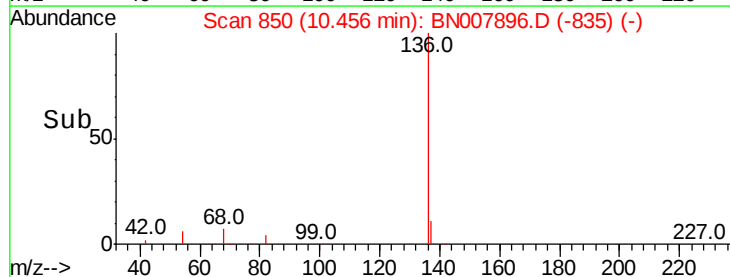
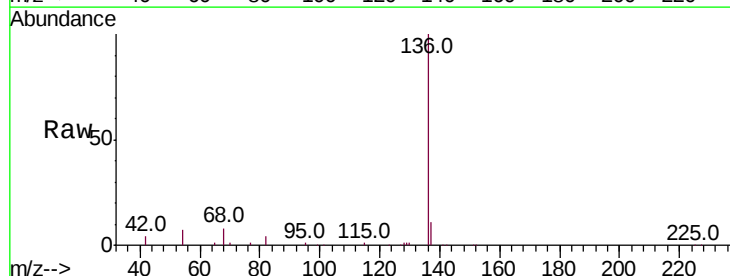
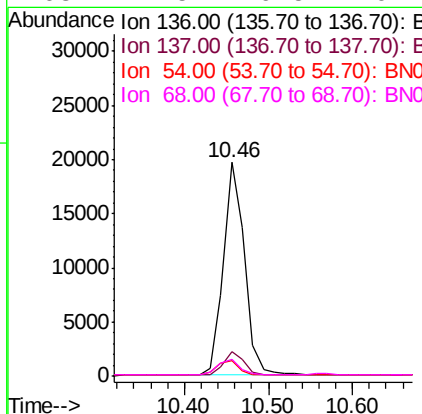
RT: 10.46 min Scan# 850

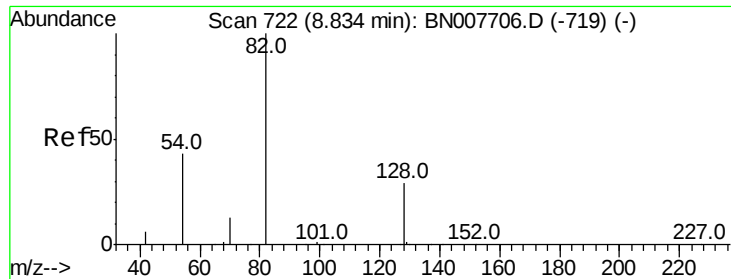
Delta R.T. -0.01 min

Lab File: BN007896.D

Acq: 30 Sep 2019 14:42

Tgt Ion:	136	Resp:	34809
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.2	13.8
54	7.0	5.8	8.8
68	7.5	6.5	9.7





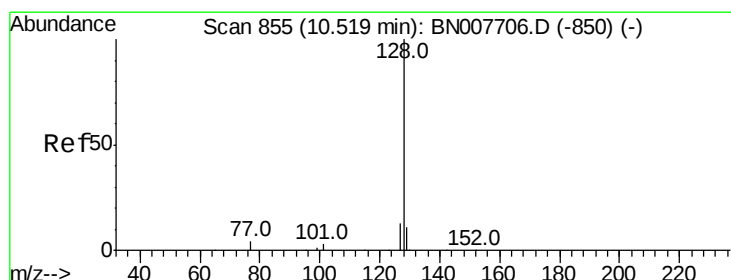
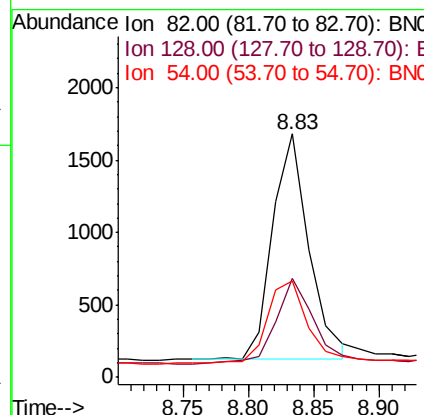
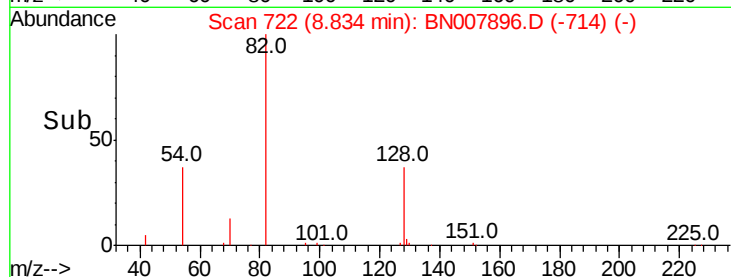
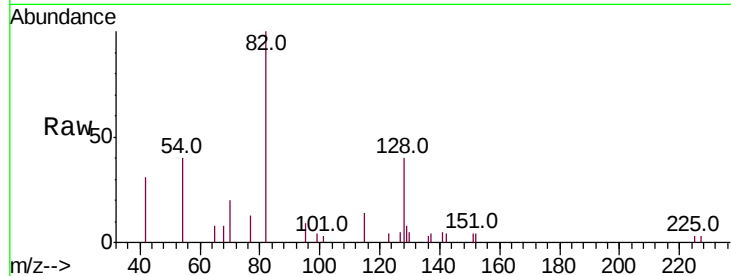
#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.83 min Scan# 722
Delta R.T. 0.00 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Instrument :
BNA_N
ClientSampleId :
PST-024-SW136-092619

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.5	24.5	36.7#
54	39.6	35.2	52.8

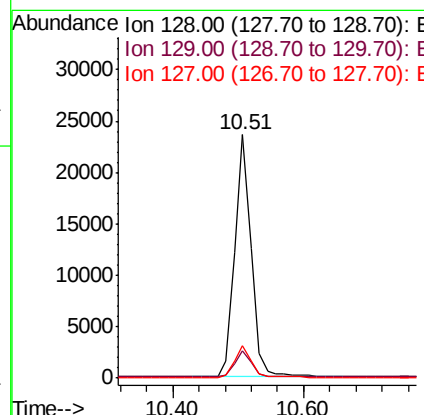
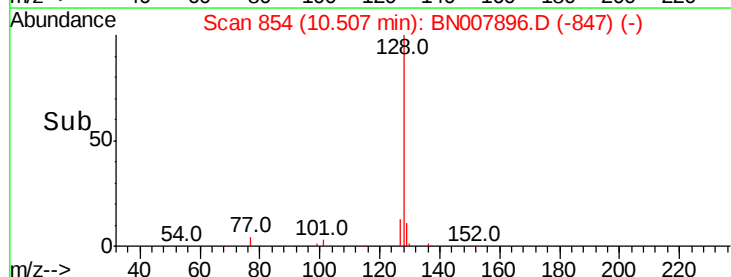
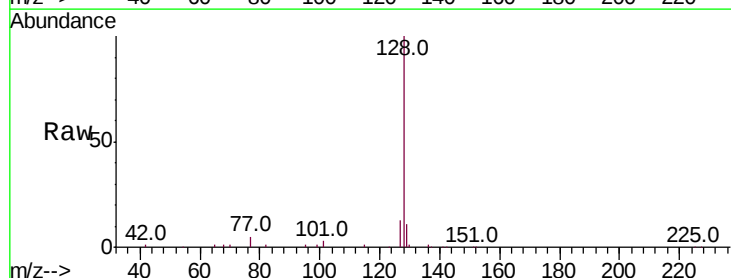
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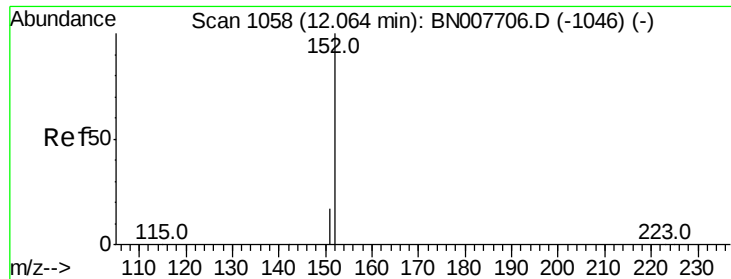
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#9
Naphthalene
Concen: 0.417 ng
RT: 10.51 min Scan# 854
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.3	10.6	15.8





#11

2-Methylnaphthalene-d10

Concen: 0.109 ng

RT: 12.05 min Scan# 1055

Delta R.T. -0.01 min

Lab File: BN007896.D

Acq: 30 Sep 2019 14:42

Instrument :

BNA_N

ClientSampleId :

PST-024-SW136-092619

Tot Ion:152 Resp: 6398

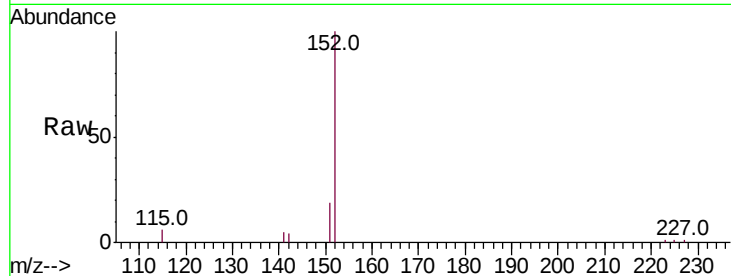
Ion Ratio Lower Upper

152 100

151 19.4 15.4 23.2

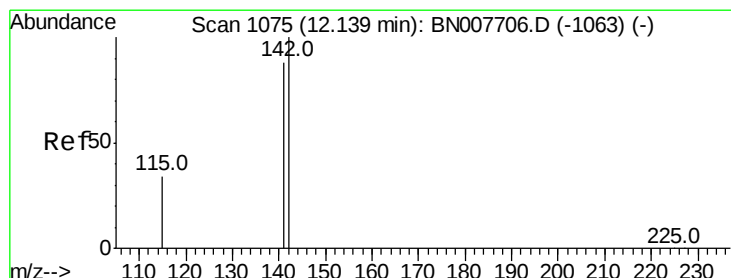
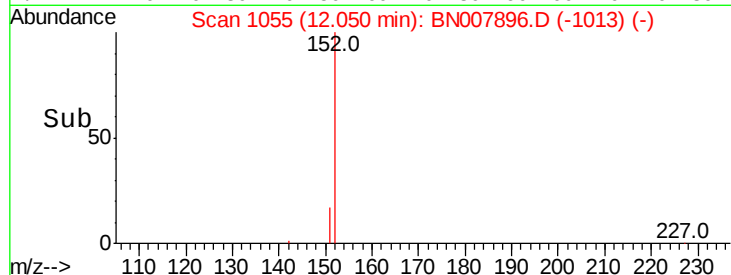
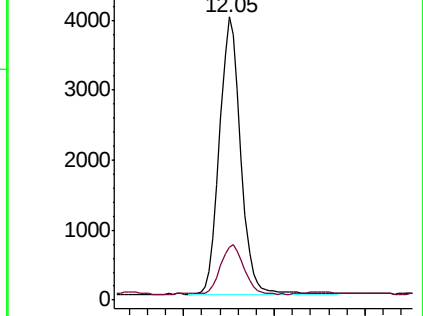
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.808 ng

RT: 12.13 min Scan# 1072

Delta R.T. -0.01 min

Lab File: BN007896.D

Acq: 30 Sep 2019 14:42

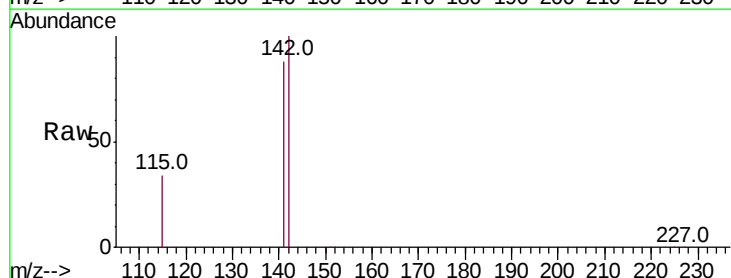
Tgt Ion:142 Resp: 53381

Ion Ratio Lower Upper

142 100

141 88.1 70.6 106.0

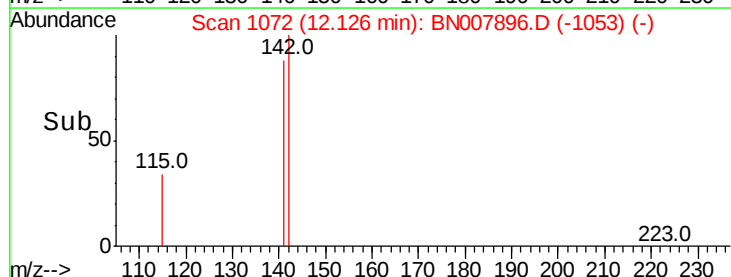
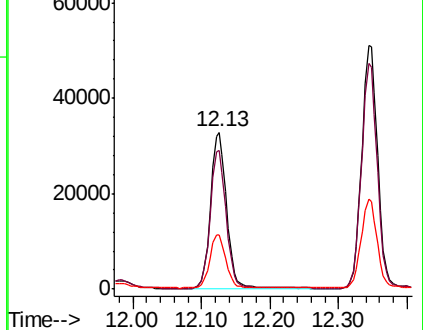
115 34.5 28.3 42.5

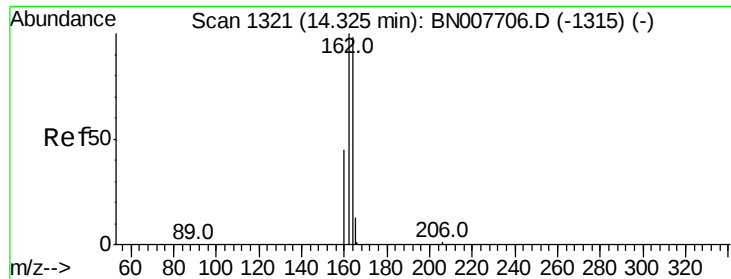


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





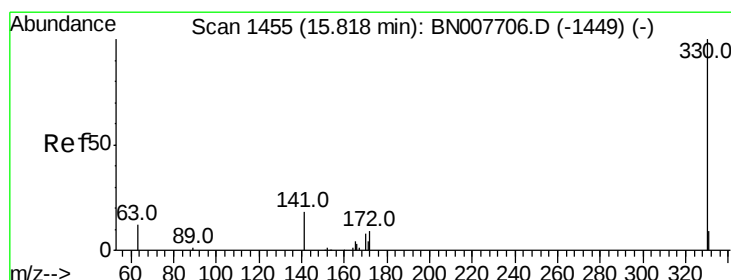
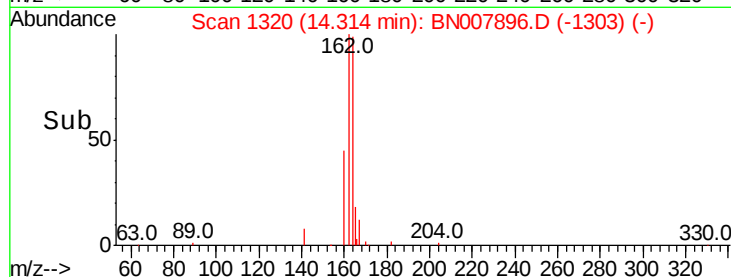
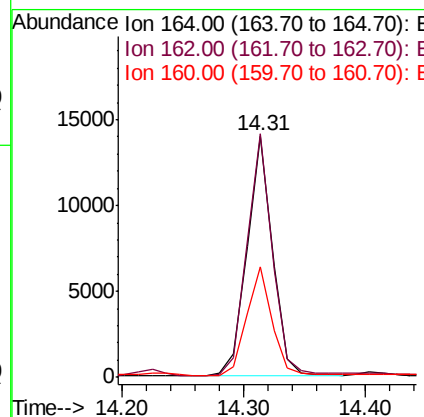
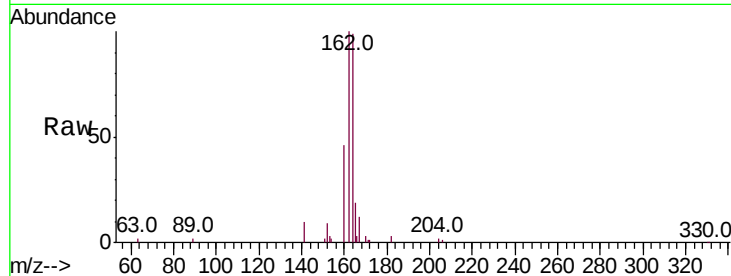
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Instrument :
BNA_N
ClientSampleId :
PST-024-SW136-092619

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.7	122.5
160	45.9	37.0	55.4

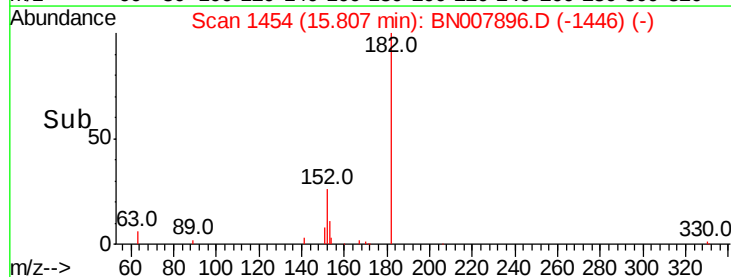
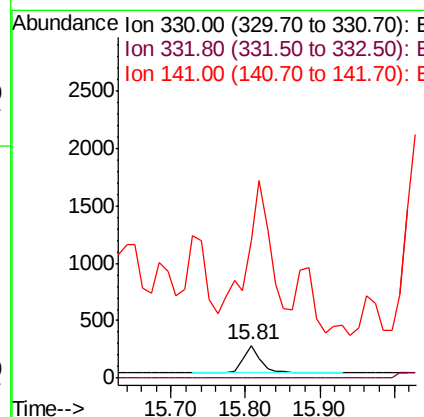
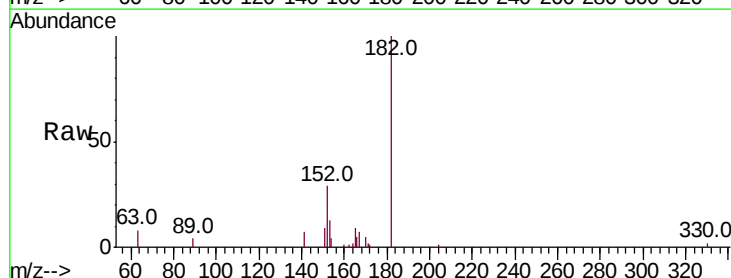
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#14
2,4,6-Tribromophenol
Concen: 0.034 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	703.7	28.7	43.1#





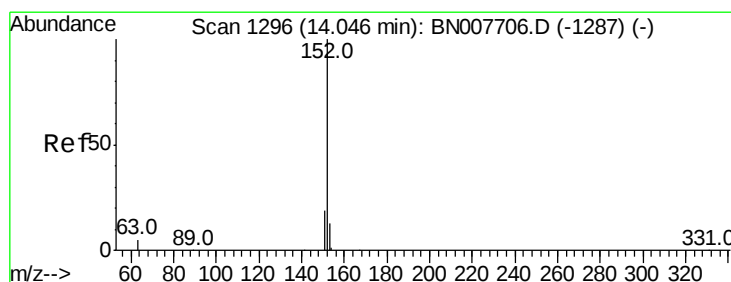
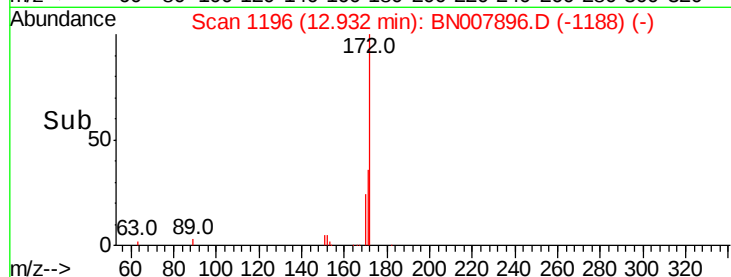
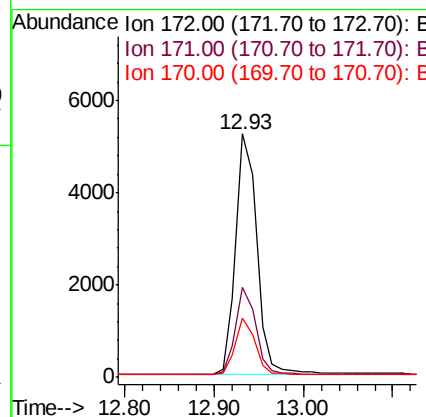
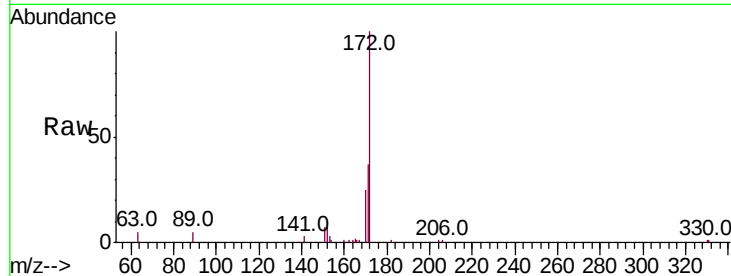
#15
2-Fluorobiphenyl
Concen: 0.103 ng
RT: 12.93 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Instrument :
BNA_N
ClientSampleId :
PST-024-SW136-092619

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.8	28.8	43.2
170	24.6	19.5	29.3

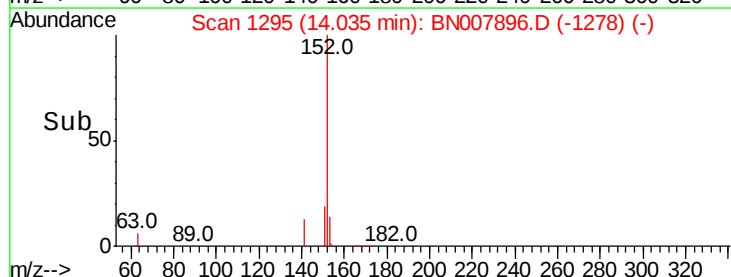
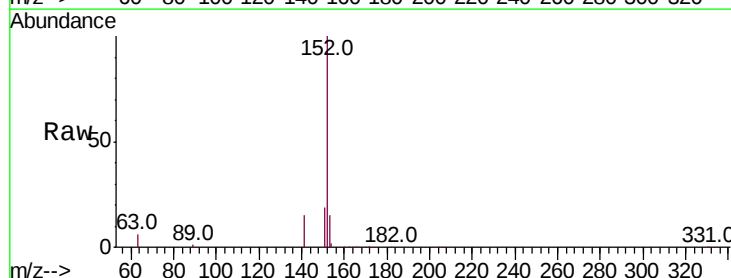
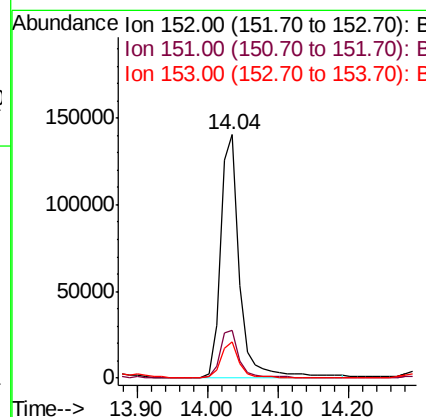
Manual Integrations
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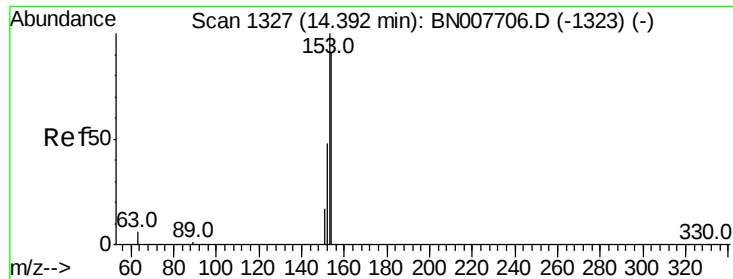
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#16
Acenaphthylene
Concen: 2.453 ng
RT: 14.04 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.5	23.3
153	14.2	10.4	15.6





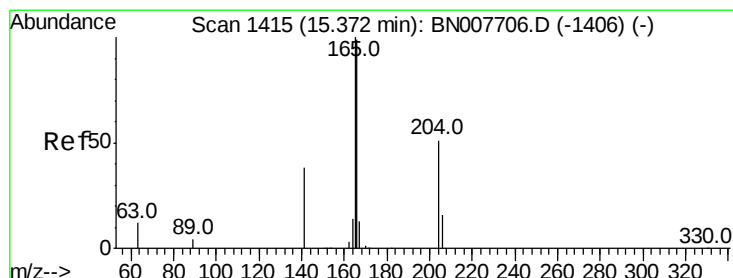
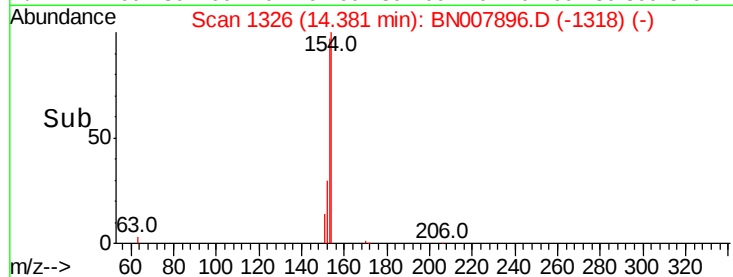
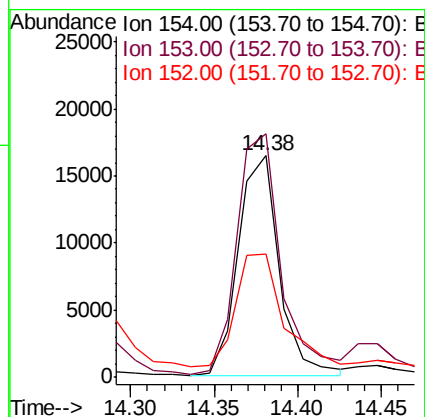
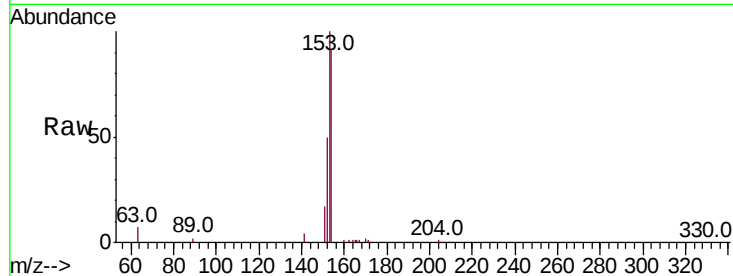
#17
Acenaphthene
Concen: 0.393 ng
RT: 14.38 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Instrument :
BNA_N
ClientSampleId :
PST-024-SW136-092619

Tot Ion:	154	Resp:	27676
Ion Ratio	Lower	Upper	
154	100		
153	118.2	87.0	130.4
152	60.5	42.7	64.1

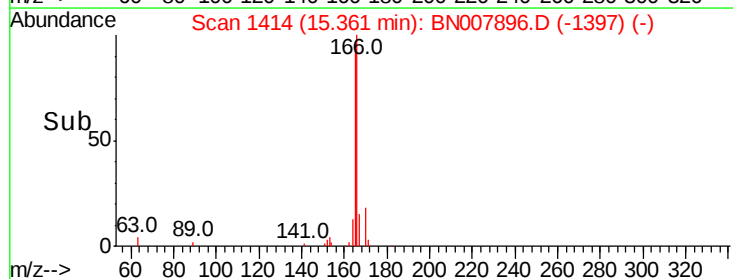
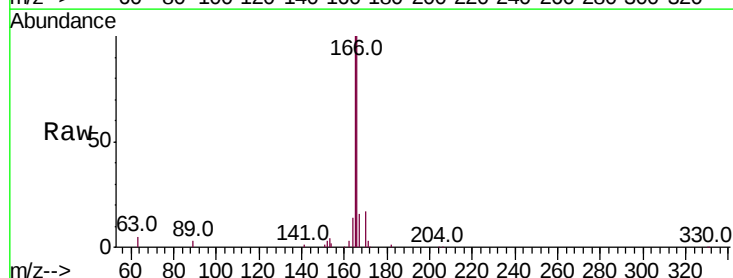
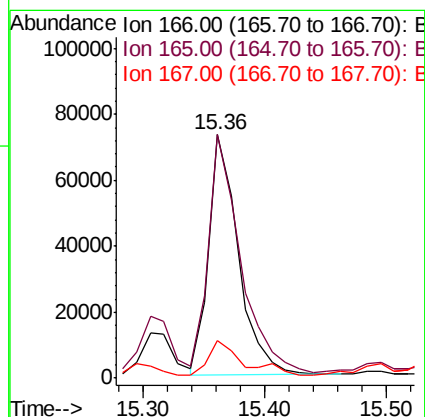
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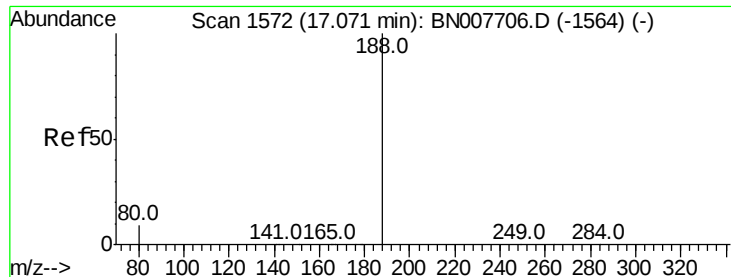
mohammad
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#18
Fluorene
Concen: 1.367 ng
RT: 15.36 min Scan# 1414
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Tgt Ion:	166	Resp:	123331
Ion Ratio	Lower	Upper	
166	100		
165	105.6	78.0	117.0
167	17.0	10.9	16.3#





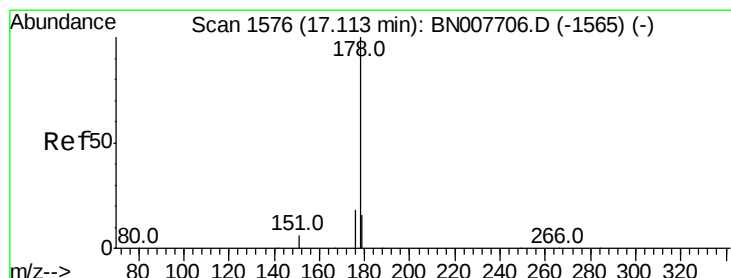
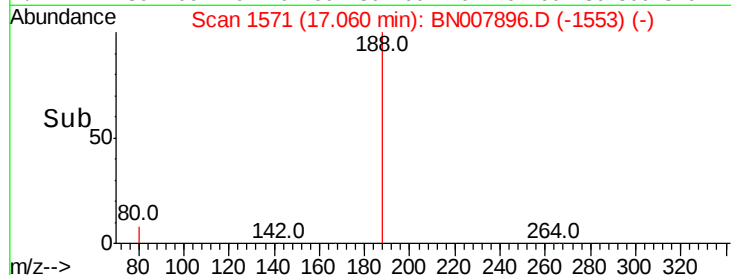
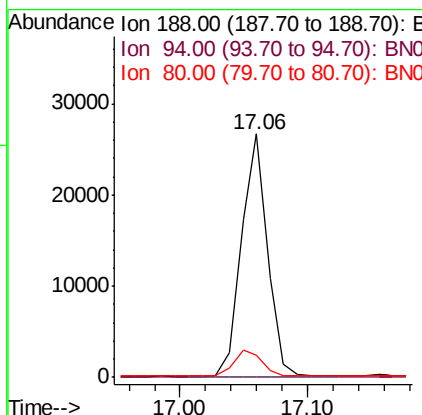
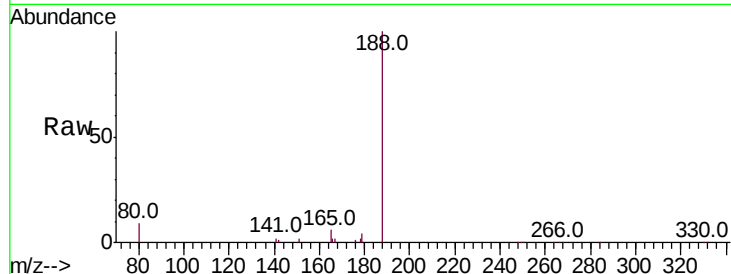
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.06 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Instrument :
BNA_N
ClientSampleId :
PST-024-SW136-092619

Tot Ion	Ratio	Resp	Lower	Upper
188	100	37572		
94	0.0	0.0	0.0	0.0
80	9.1	7.4	11.2	

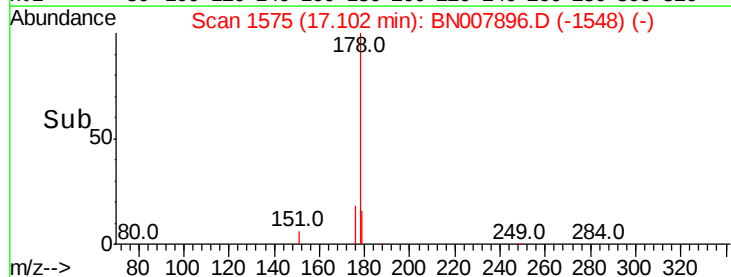
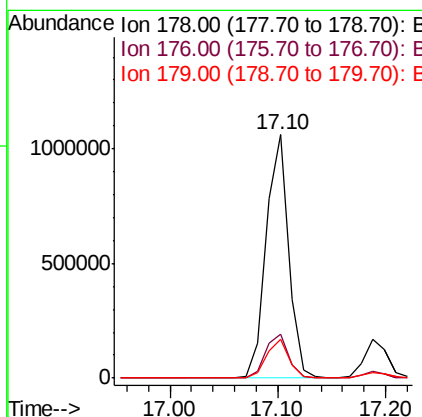
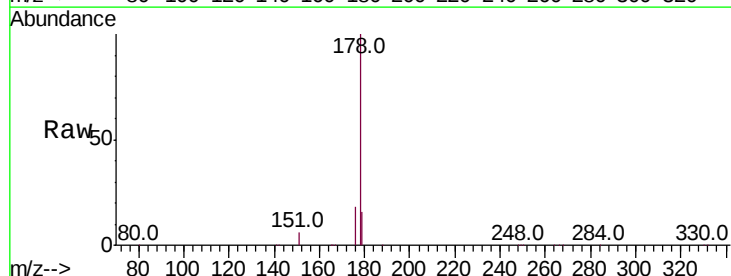
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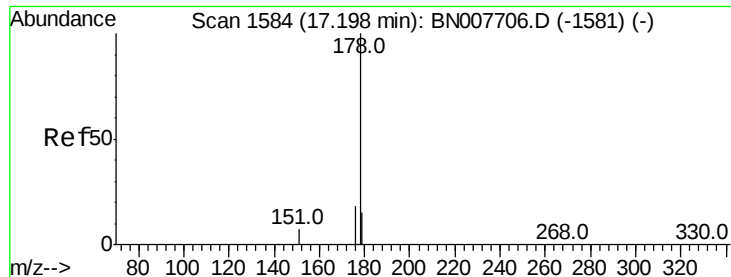
mohammad
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#23
Phenanthrene
Concen: 13.005 ng
RT: 17.10 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1522147		
176	18.6	14.9	22.3	
179	15.8	12.5	18.7	





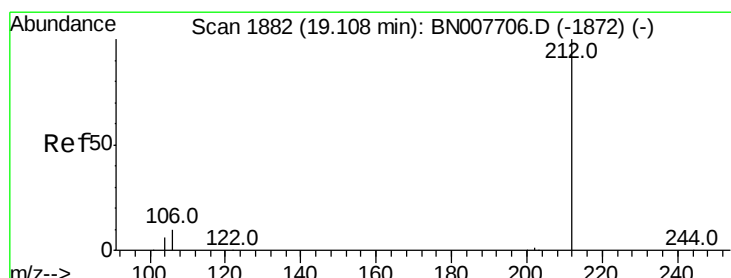
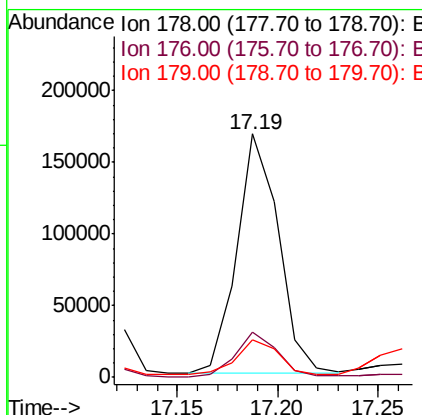
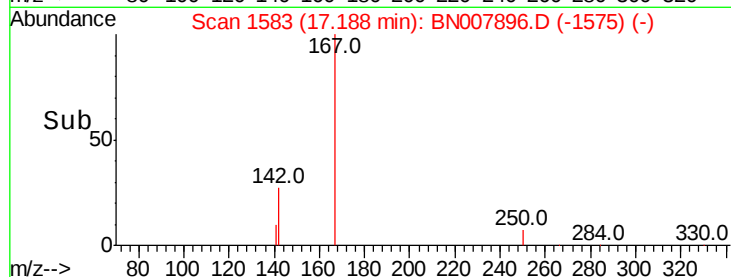
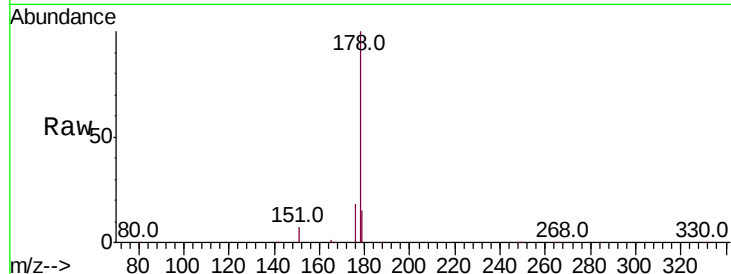
#24
 Anthracene
 Concen: 2.297 ng
 RT: 17.19 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BN007896.D
 Acq: 30 Sep 2019 14:42

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW136-092619

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.6	21.8
179	15.0	12.2	18.4

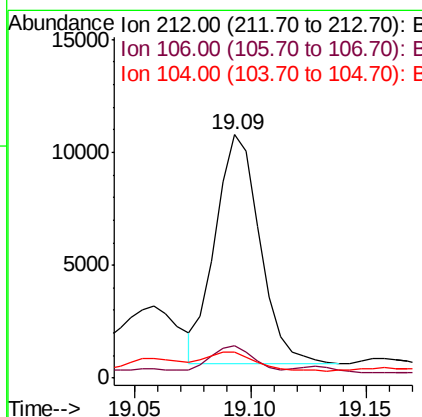
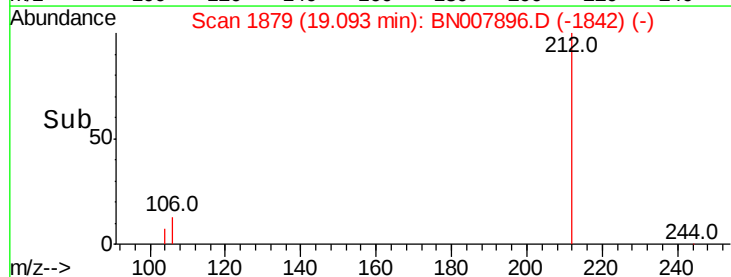
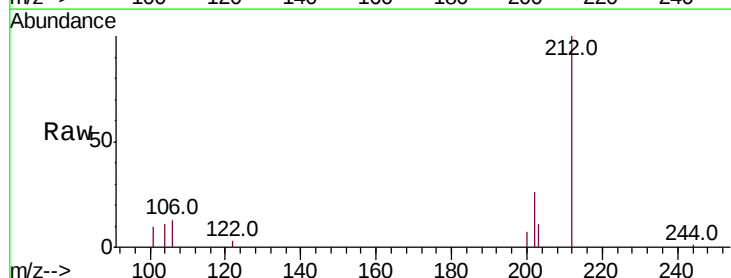
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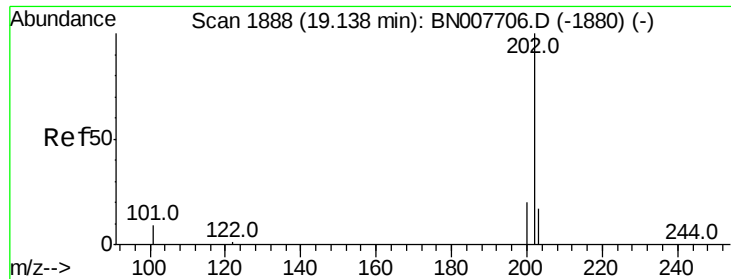
mohammad
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#25
 Fluoranthene-d10
 Concen: 0.107 ng
 RT: 19.09 min Scan# 1879
 Delta R.T. -0.01 min
 Lab File: BN007896.D
 Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.4	14.0
104	9.4	5.3	7.9#





#26
Fluoranthene
 Concen: 12.052 ng
 RT: 19.12 min Scan# 1885
 Delta R.T. -0.01 min
 Lab File: BN007896.D
 Acq: 30 Sep 2019 14:42

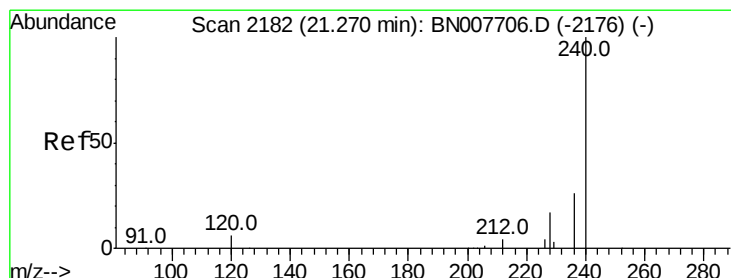
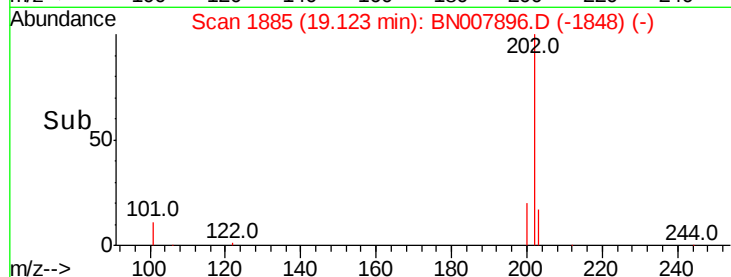
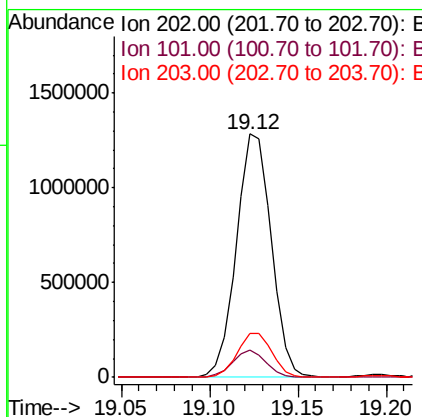
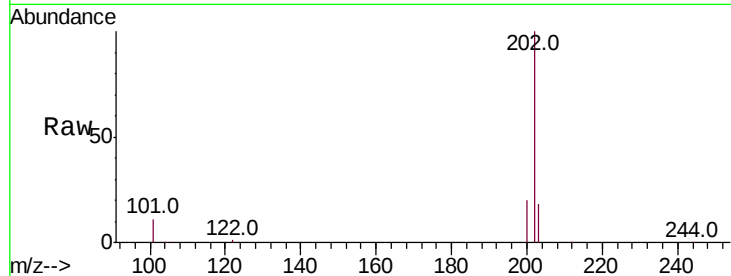
Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW136-092619

Tot Ion:202 Resp: 1754000

Ion	Ratio	Lower	Upper
202	100		
101	10.7	8.4	12.6
203	18.0	13.8	20.8

Manual Integrations
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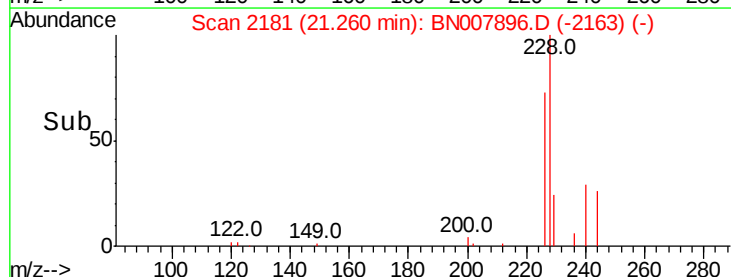
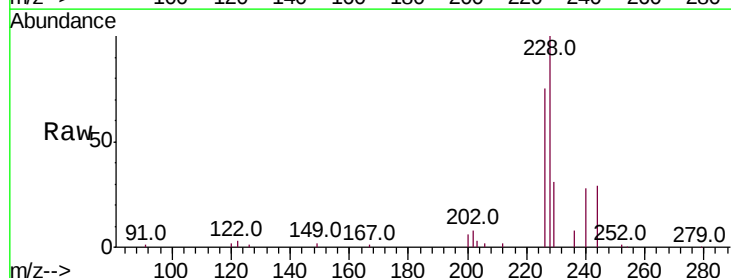
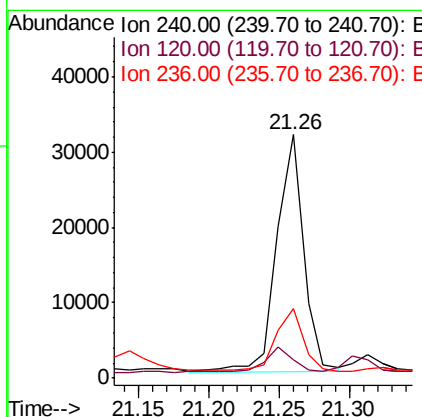
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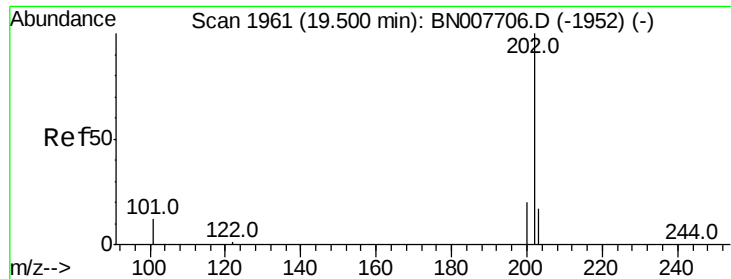


#27
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.26 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: BN007896.D
 Acq: 30 Sep 2019 14:42

Tgt Ion:240 Resp: 42244

Ion	Ratio	Lower	Upper
240	100		
120	7.8	5.4	8.2
236	28.3	21.0	31.4





#28

Pvrene

Concen: 14.525 ng

RT: 19.49 min Scan# 1959

Delta R.T. -0.01 min

Lab File: BN007896.D

Acq: 30 Sep 2019 14:42

Instrument :

BNA_N

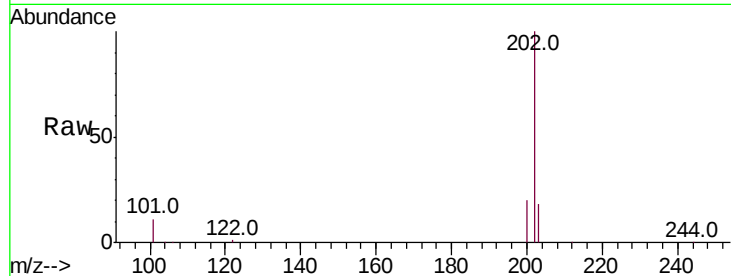
ClientSampleId :

PST-024-SW136-092619

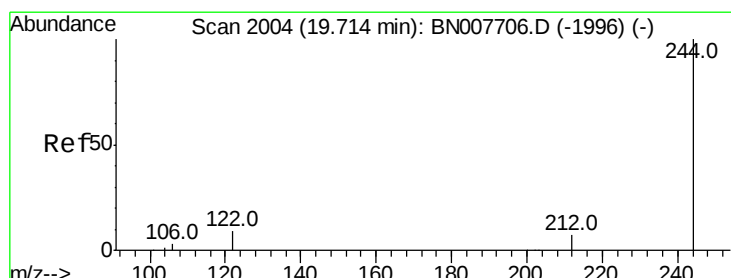
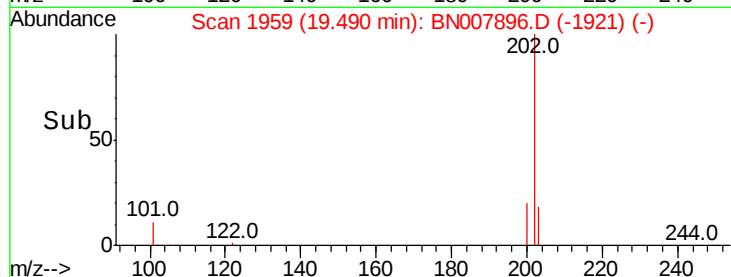
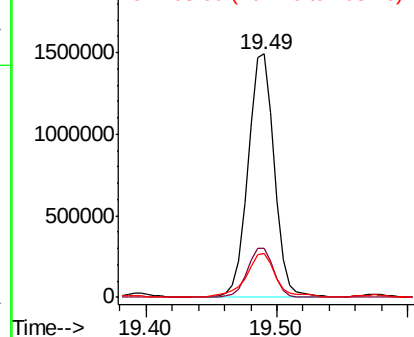
Tot Ion:	202	Resp:	2092734
Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.4	24.6
203	20.3	14.1	21.1

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Abundance Ion 202.00 (201.70 to 202.70): E
2000000
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 0.121 ng

RT: 19.70 min Scan# 2001

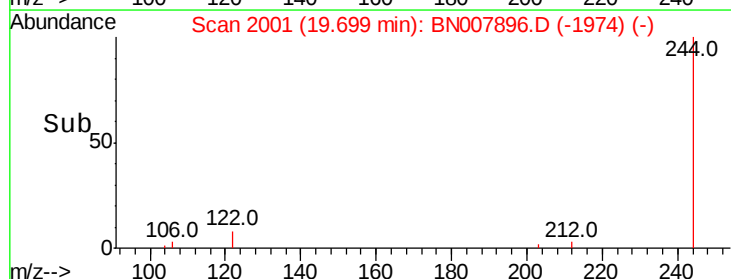
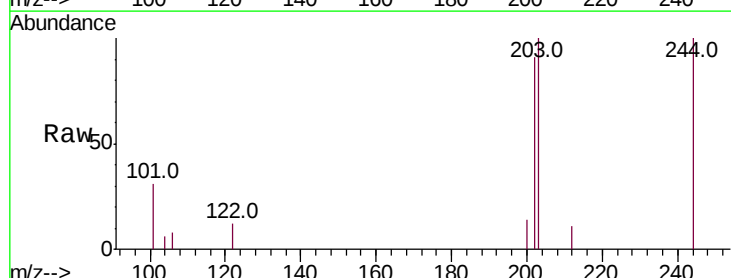
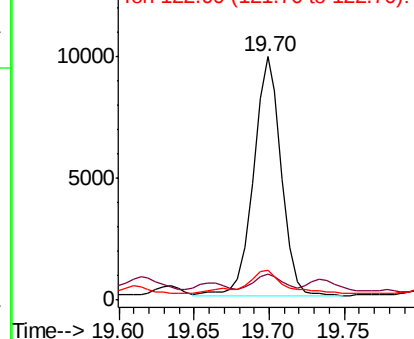
Delta R.T. -0.01 min

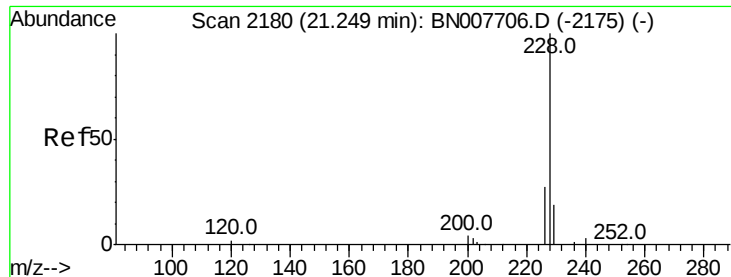
Lab File: BN007896.D

Acq: 30 Sep 2019 14:42

Tgt Ion:	244	Resp:	12544
Ion	Ratio	Lower	Upper
244	100		
212	10.7	5.9	8.9#
122	12.2	7.4	11.2#

Abundance Ion 244.00 (243.70 to 244.70): E
10000
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





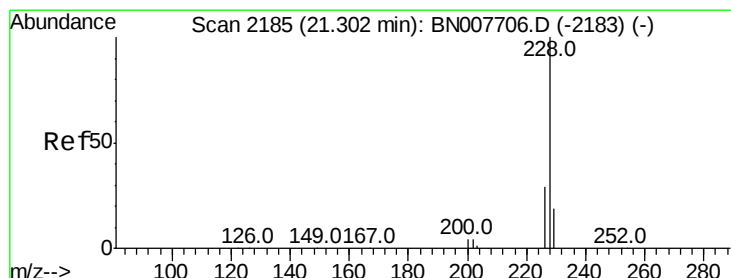
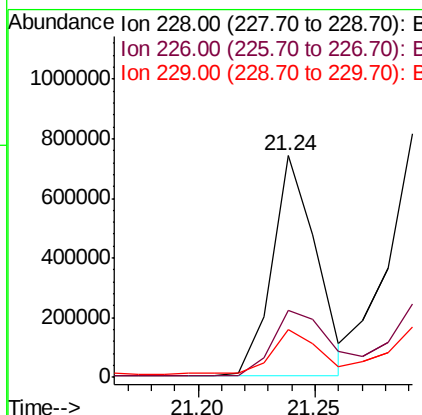
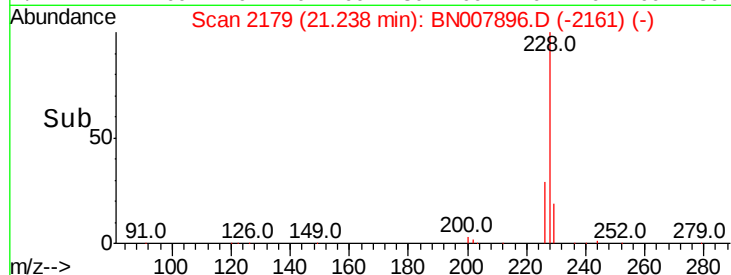
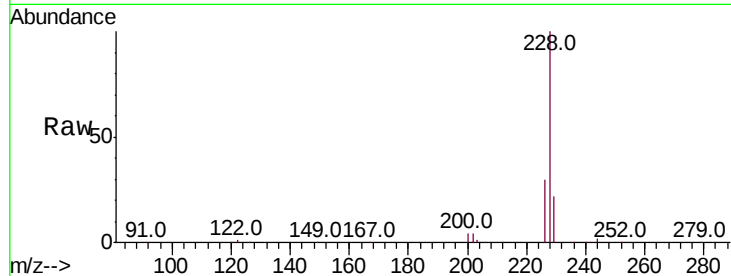
#30
Benzo(a)anthracene
Concen: 6.264 ng
RT: 21.24 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Instrument :
BNA_N
ClientSampleId :
PST-024-SW136-092619

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.1	33.1
229	21.5	15.8	23.6

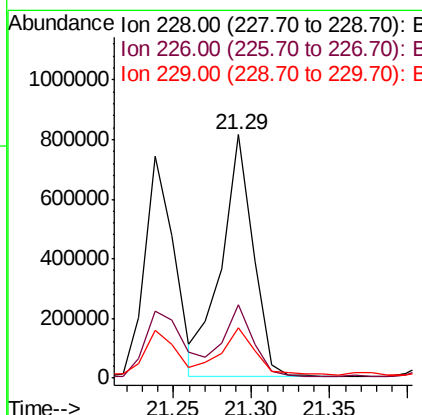
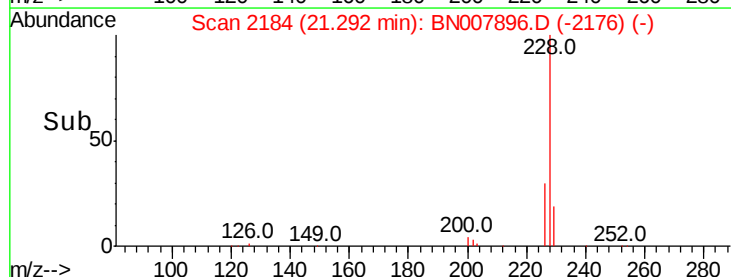
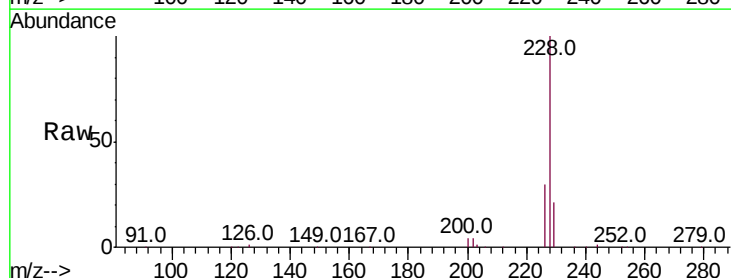
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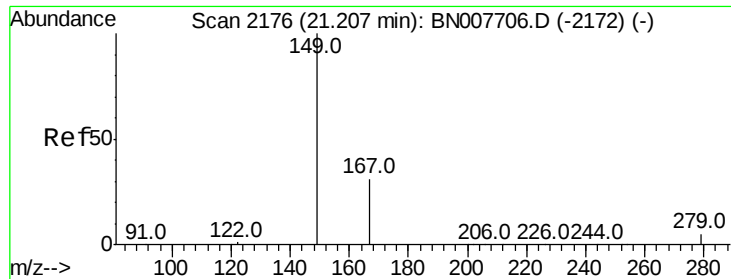
mohammad
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#31
Chrysene
Concen: 7.527 ng
RT: 21.29 min Scan# 2184
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.9	35.9
229	20.8	15.8	23.6





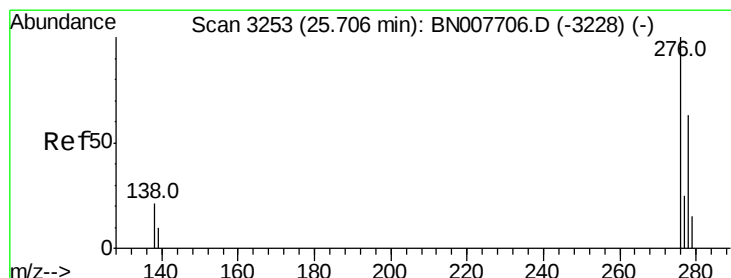
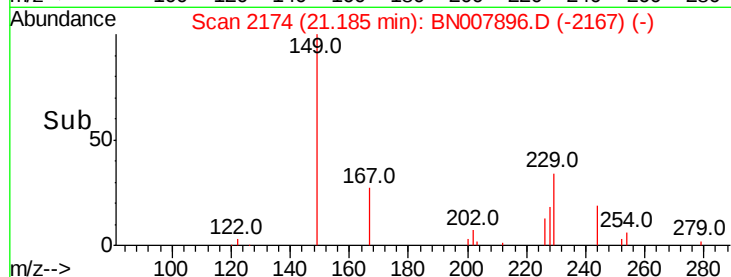
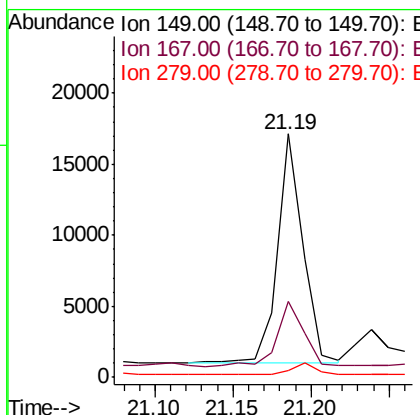
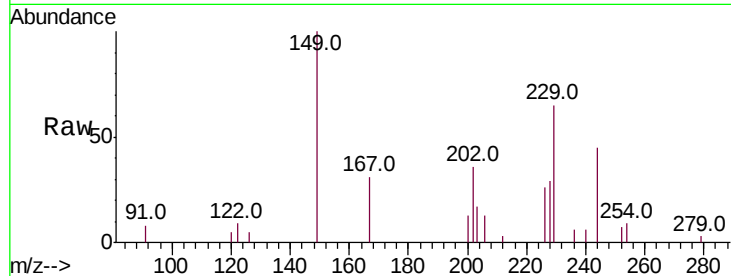
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.227 ng
 RT: 21.19 min Scan# 2174
 Delta R.T. -0.02 min
 Lab File: BN007896.D
 Acq: 30 Sep 2019 14:42

Instrument :
 BNA_N
 ClientSampleId :
 PST-024-SW136-092619

Tot Ion	Ratio	Lower	Upper
149	100		
167	30.9	23.7	35.5
279	5.1	4.2	6.2

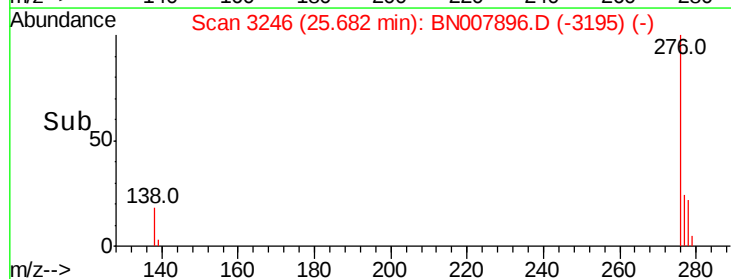
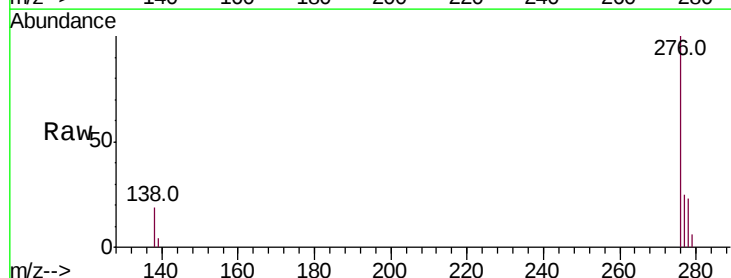
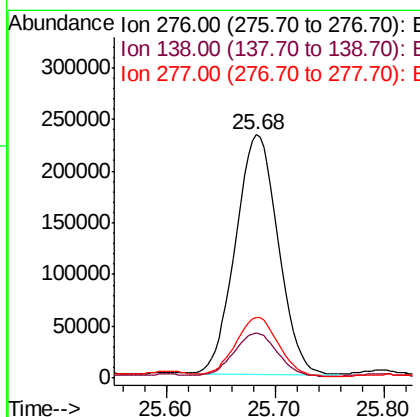
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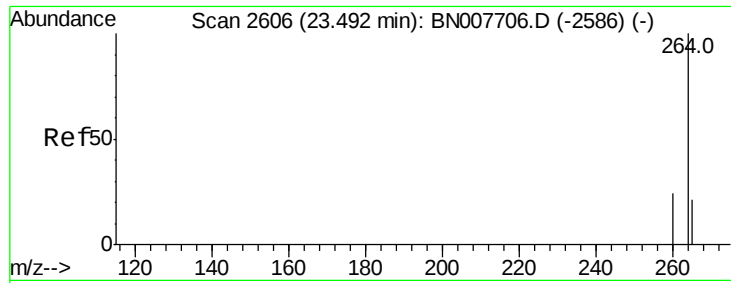
mohammad
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#33
 Indeno(1,2,3-cd)pyrene
 Concen: 3.315 ng
 RT: 25.68 min Scan# 3246
 Delta R.T. -0.02 min
 Lab File: BN007896.D
 Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.3	17.1	25.7
277	24.7	20.0	30.0





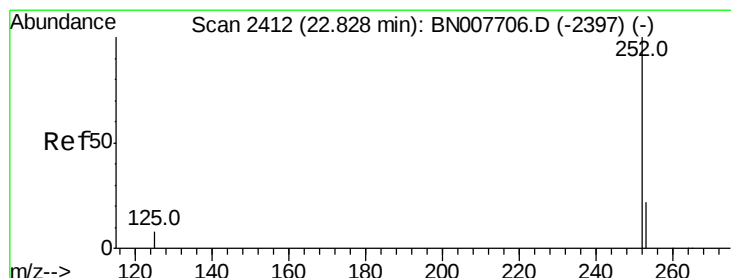
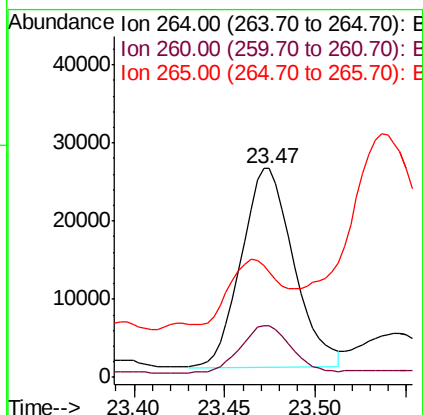
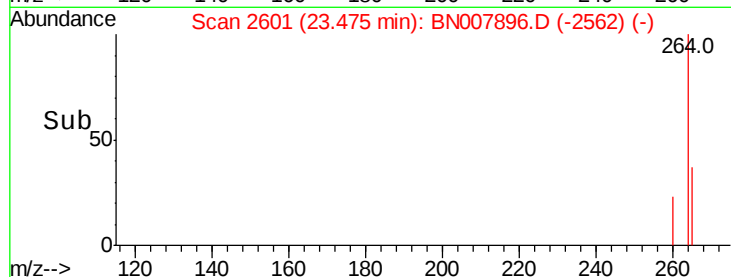
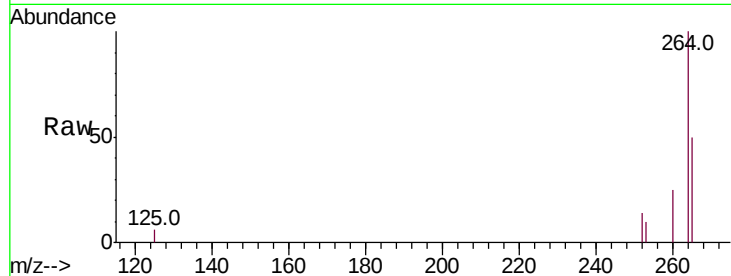
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.47 min Scan# 2601
Delta R.T. -0.02 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Instrument :
BNA_N
ClientSampleId :
PST-024-SW136-092619

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.3	28.9
265	50.3	26.9	40.3

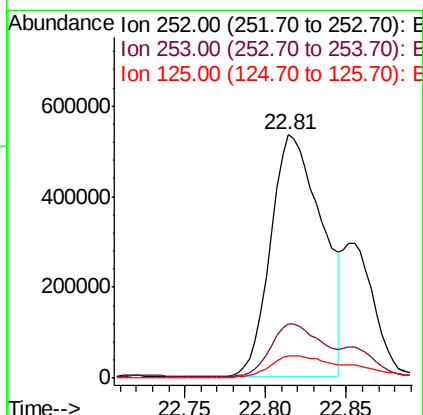
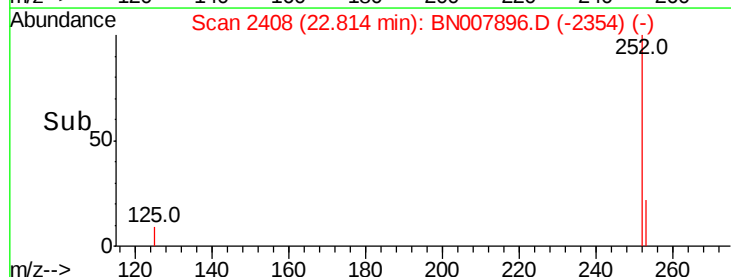
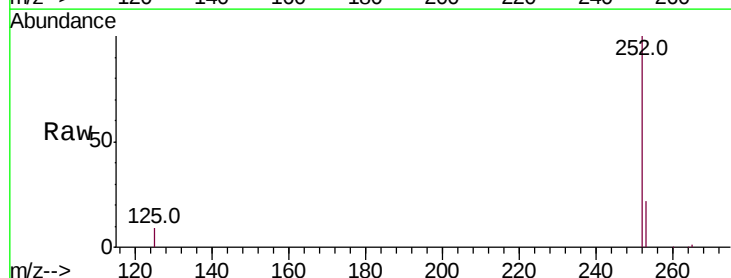
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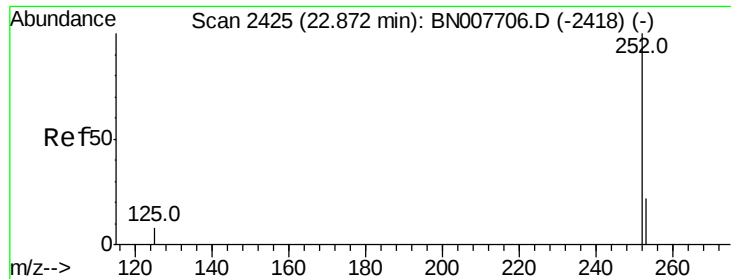
mohammad
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#35
Benzo(b)fluoranthene
Concen: 6.709 ng
RT: 22.81 min Scan# 2408
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.3	27.5
125	9.2	8.2	12.4





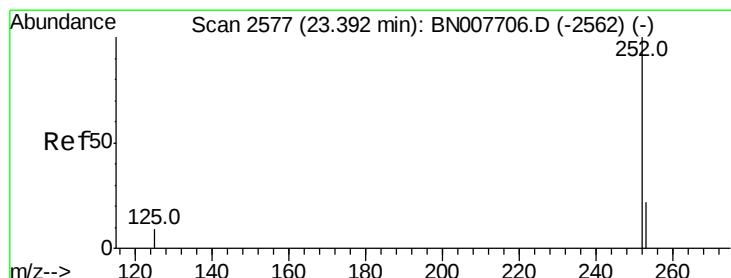
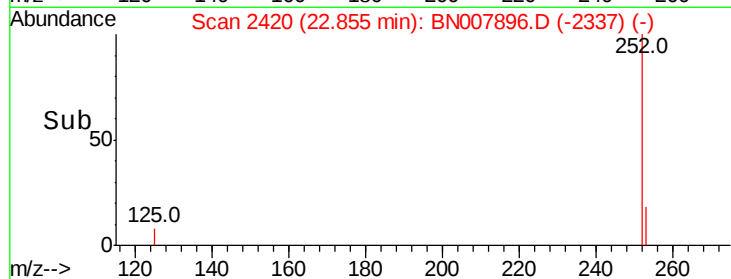
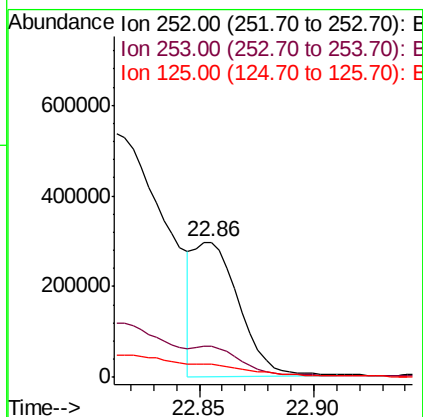
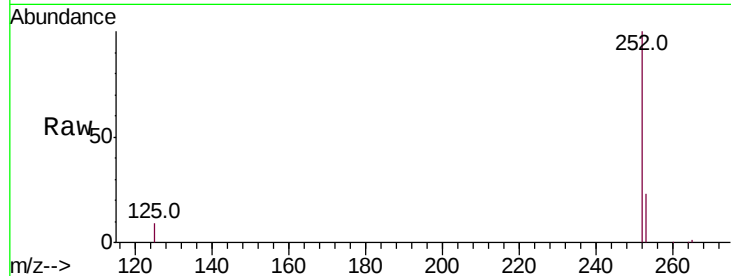
#36
Benzo(k)fluoranthene
Concen: 2.335 ng m
RT: 22.86 min Scan# 2420
Delta R.T. -0.02 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Instrument :
BNA_N
ClientSampleId :
PST-024-SW136-092619

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.5	27.7
125	9.4	8.4	12.6

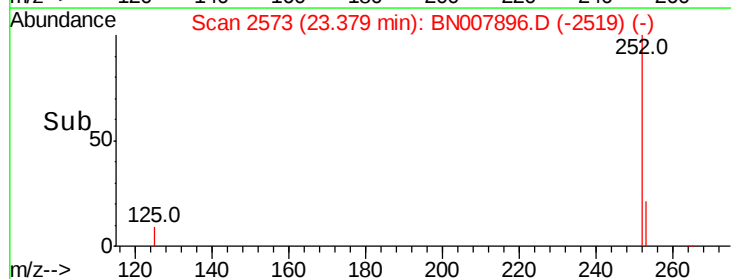
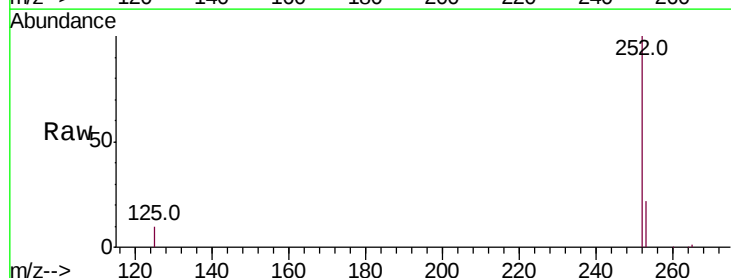
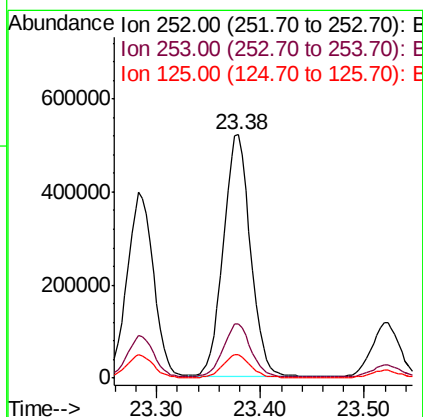
Manual Integrations
APPROVED

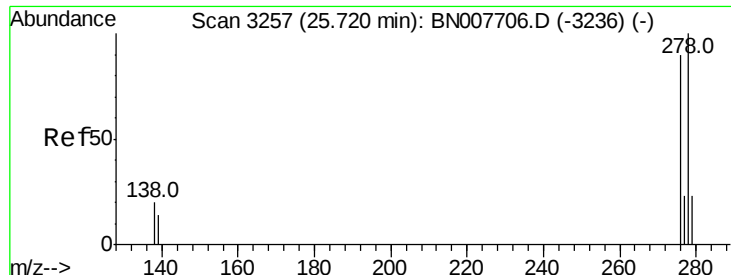
mohammad
10/2/2019 8:21:21 AM



#37
Benzo(a)pyrene
Concen: 5.678 ng
RT: 23.38 min Scan# 2573
Delta R.T. -0.01 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.6	27.8
125	9.6	9.4	14.0





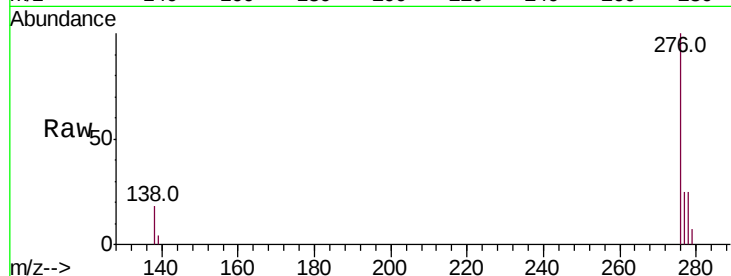
#38
Dibenzo(a,h)anthracene
Concen: 0.988 ng
RT: 25.69 min Scan# 3248
Delta R.T. -0.03 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Instrument :
BNA_N
ClientSampleId :
PST-024-SW136-092619

Tot Ion	Ratio	Lower	Upper
278	100		
139	15.6	11.8	17.6
279	27.2	19.4	29.2

Manual Integrations
APPROVED

mohammad
10/2/2019 8:21:21 AM

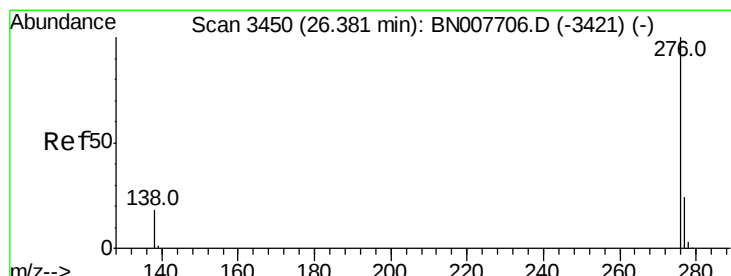
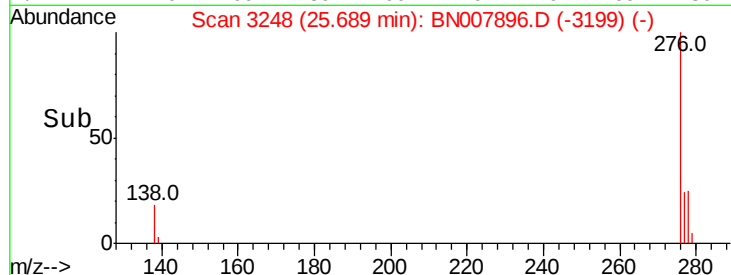
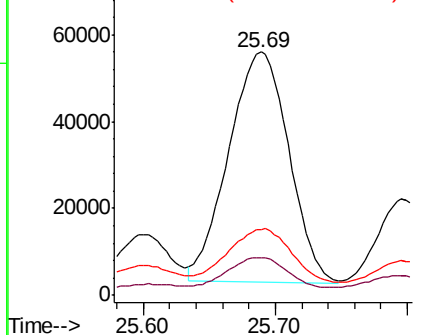


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#39
Benzo(g,h,i)perylene
Concen: 4.112 ng
RT: 26.36 min Scan# 3443
Delta R.T. -0.02 min
Lab File: BN007896.D
Acq: 30 Sep 2019 14:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.8	29.8
138	18.6	15.1	22.7

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

