

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082619\
 Data File : BN007414.D
 Acq On : 26 Aug 2019 17:49
 Operator : HP/JU
 Sample : K4409-11DL 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 10

Instrument :
 BNA_N
 ClientSampleId :
 S301-J-2.0-2.5-081919DL

Manual Integrations
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 8/30/2019 8:57:09 AM

Quant Time: Sep 20 16:43:24 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	48798	4.00	ng	0.00
7) Naphthalene-d8	10.15	136	197879	4.00	ng	-0.01
13) Acenaphthene-d10	14.05	164	121283	4.00	ng	0.00
19) Phenanthrene-d10	16.79	188	260508	4.00	ng	0.00
27) Chrysene-d12	21.02	240	276217	4.00	ng	0.00
34) Perylene-d12	23.12	264	296029	4.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.03	112	1151	-0.23	ng	0.00
5) Phenol-d6	6.59	99	1467	-0.25	ng	0.00
8) Nitrobenzene-d5	8.53	82	1104	0.06	ng	0.00
11) 2-Methylnaphthalene-d10	11.76	152	2250	0.07	ng	0.00
14) 2,4,6-Tribromophenol	15.55	330	426	0.07	ng	0.00
15) 2-Fluorobiphenyl	12.66	172	2845	0.06	ng	0.00
25) Fluoranthene-d10	18.84	212	5364	0.06	ng	0.00
29) Terphenyl-d14	19.46	244	5150	0.07	ng	0.00

Target Compounds						Qvalue
9) Naphthalene	10.20	128	4081	0.072	ng	# 94
12) 2-Methylnaphthalene	11.83	142	871	0.023	ng	# 85
16) Acenaphthylene	13.76	152	2072	0.029	ng	97
17) Acenaphthene	14.10	154	2926	0.070	ng	96
18) Fluorene	15.10	166	4167	0.078	ng	99
23) Phenanthrene	16.84	178	166001	2.118	ng	99
24) Anthracene	16.93	178	42007	0.533	ng	99
26) Fluoranthene	18.87	202	569484	5.660	ng	100
28) Pyrene	19.24	202	469555	4.226	ng	96
30) Benzo(a)anthracene	21.00	228	351889	3.244	ng	99
31) Chrysene	21.05	228	267440	2.554	ng	99
33) Indeno(1,2,3-cd)pyrene	25.18	276	152101	1.206	ng	98
35) Benzo(b)fluoranthene	22.50	252	352509m	3.287	ng	
36) Benzo(k)fluoranthene	22.54	252	130646m	1.232	ng	
37) Benzo(a)pyrene	23.03	252	258473m	2.532	ng	
38) Dibenzo(a,h)anthracene	25.19	278	40693	0.400	ng	98
39) Benzo(a,h,i)perylene	25.81	276	137790	1.358	ng	97

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

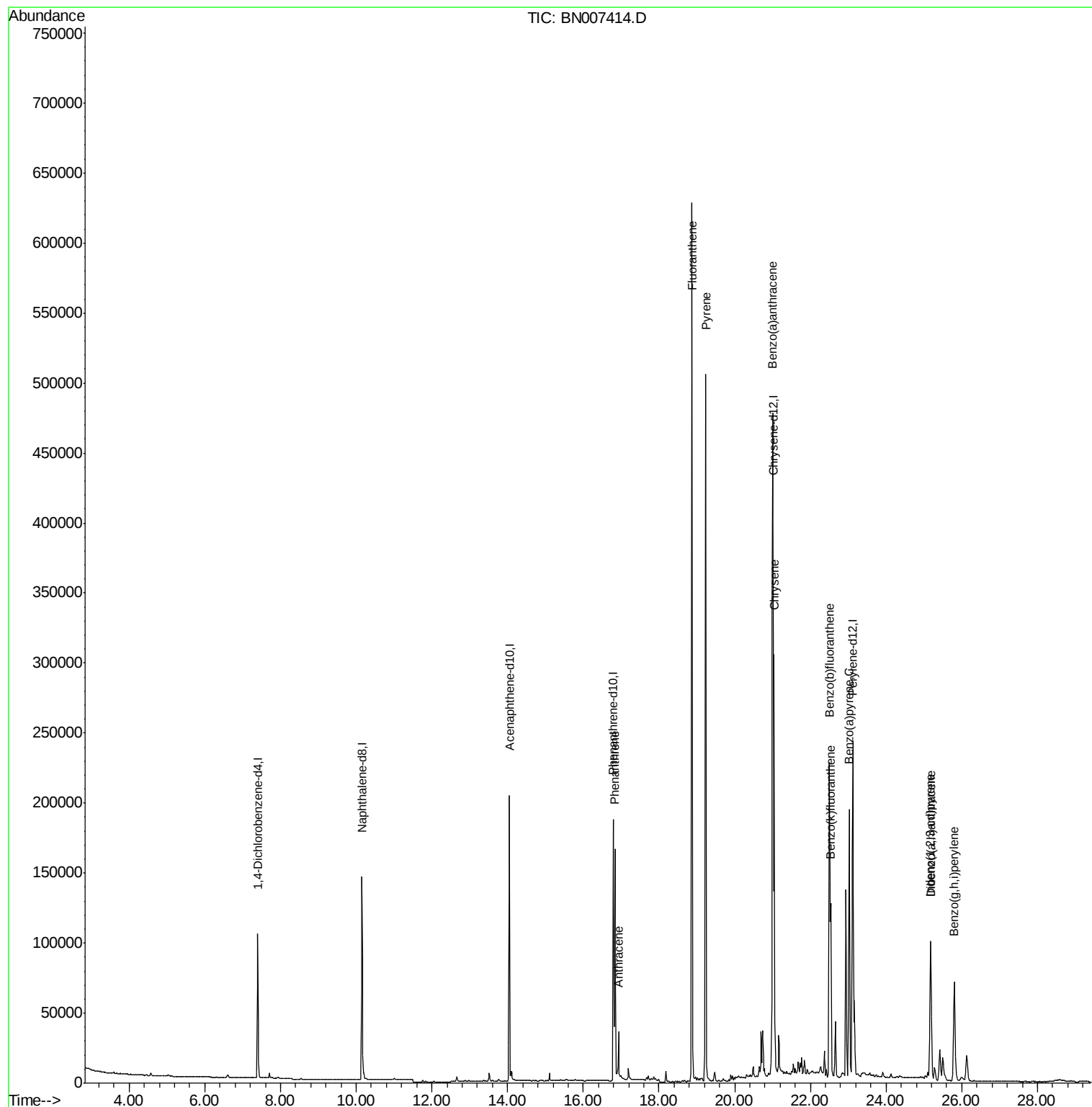
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082619\
Data File : BN007414.D
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Misc :
ALS Vial : 4 Sample Multiplier: 10

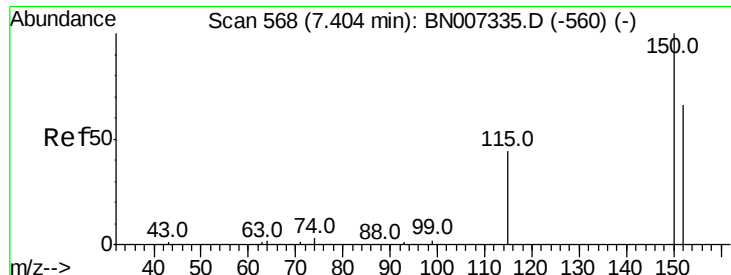
Instrument :
BNA_N
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S301-J-2.0-2.5-081919DL

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8/30/2019 8:57:09 AM

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#1

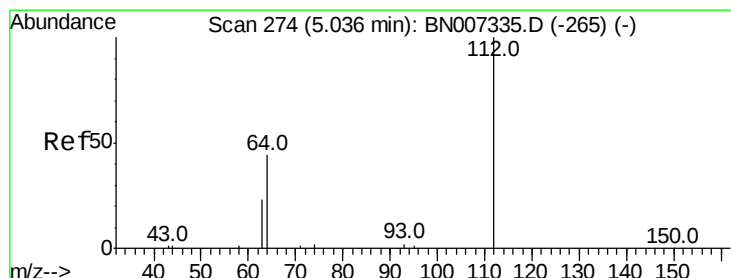
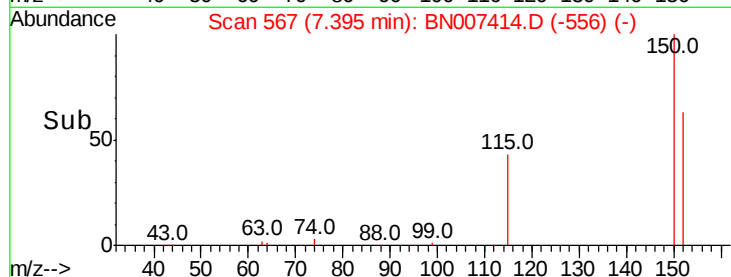
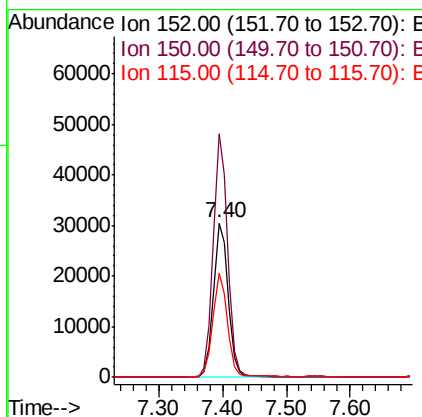
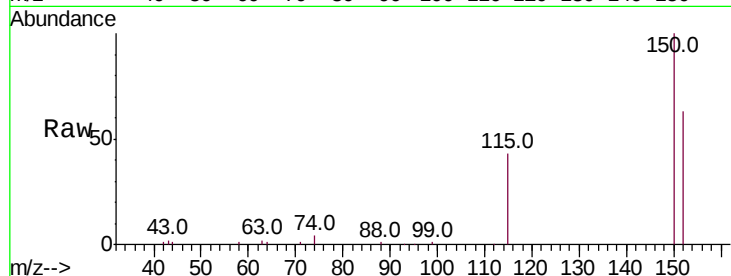
1,4-Dichlorobenzene-d4
Concen: 4.000 ng
RT: 7.40 min Scan# 567
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Instrument :
BNA_N
ClientSampleId :
S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	109.1	163.7
115	67.8	59.6	89.4

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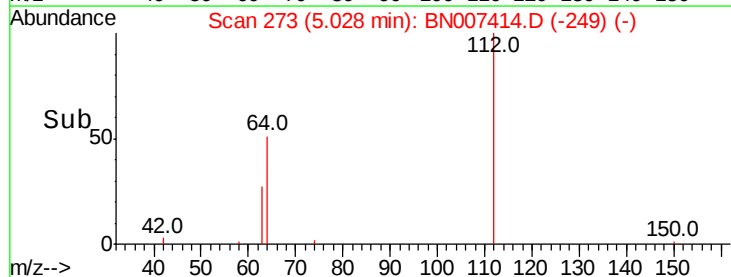
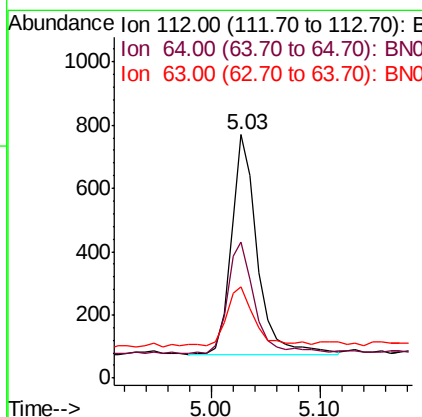
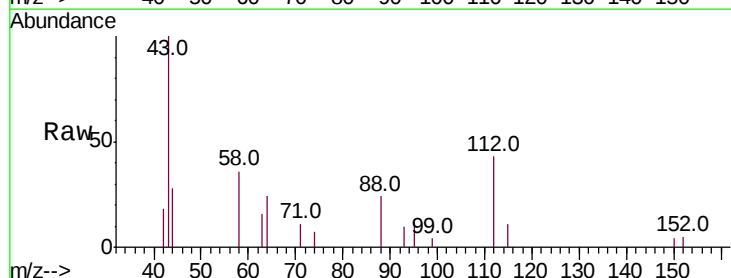
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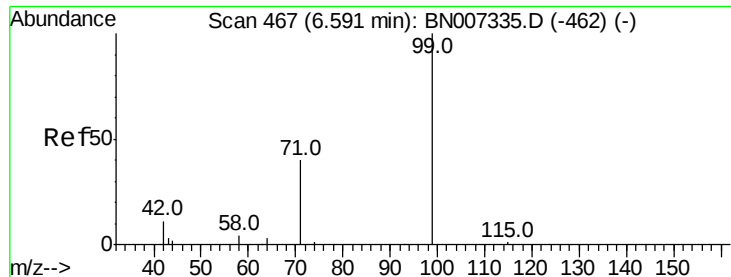


#4

2-Fluorophenol
Concen: -0.229 ng
RT: 5.03 min Scan# 273
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.6	42.3	63.5
63	30.0	23.6	35.4





#5

Phenol-d6

Concen: -0.253 ng

RT: 6.59 min Scan# 467

Delta R.T. 0.00 min

Lab File: BN007414.D

Acq: 26 Aug 2019 17:49

Instrument :

BNA_N

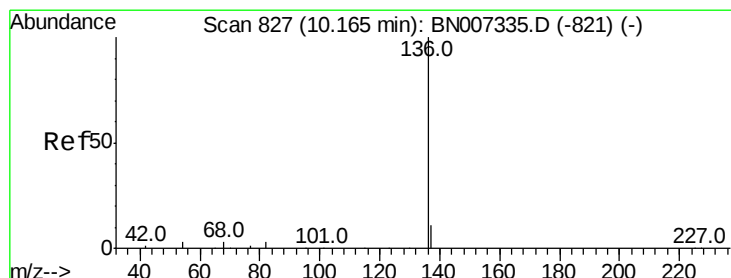
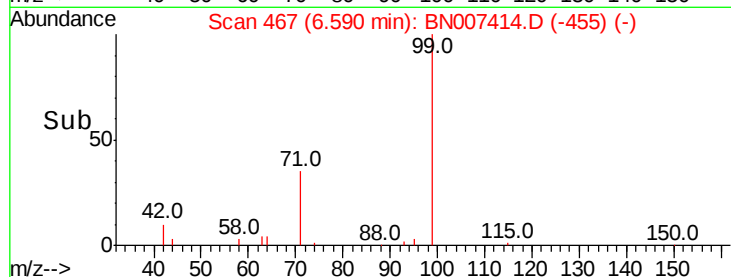
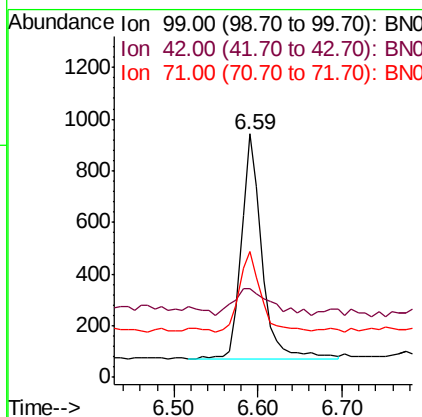
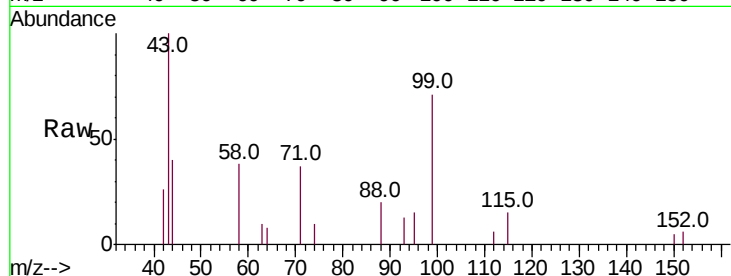
ClientSampleId :

S301-J-2.0-2.5-081919DL

Tot Ion:	99	Resp:	1467
Ion Ratio	Lower	Upper	
99	100		
42	21.5	11.2	16.8#
71	37.8	31.8	47.8

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#7

Naphthalene-d8

Concen: 4.000 ng

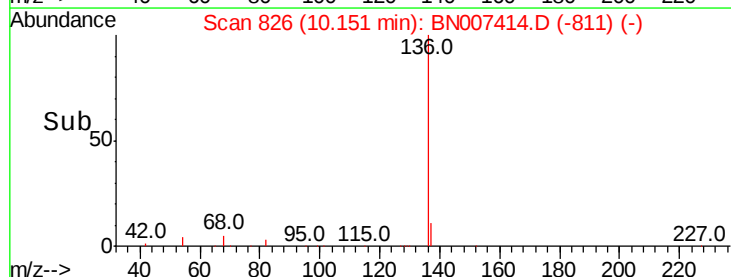
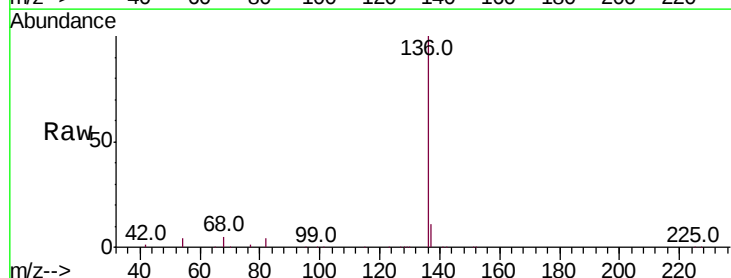
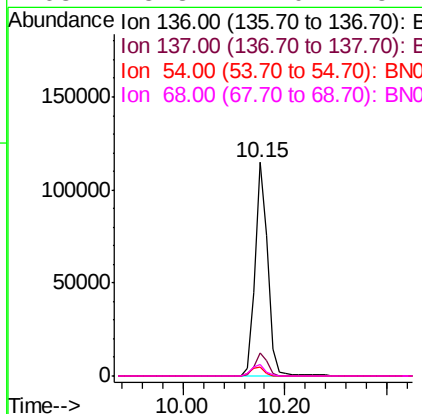
RT: 10.15 min Scan# 826

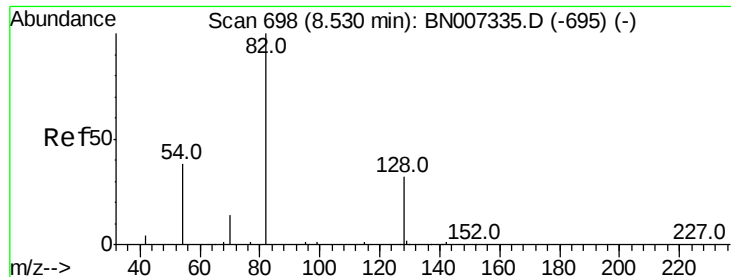
Delta R.T. -0.01 min

Lab File: BN007414.D

Acq: 26 Aug 2019 17:49

Tgt Ion:	136	Resp:	197879
Ion Ratio	Lower	Upper	
136	100		
137	11.0	12.9	19.3#
54	4.3	8.6	12.8#
68	5.3	17.0	25.4#





#8

Nitrobenzene-d5

Concen: 0.064 ng

RT: 8.53 min Scan# 698

Delta R.T. -0.00 min

Lab File: BN007414.D

Acq: 26 Aug 2019 17:49

Instrument :

BNA_N

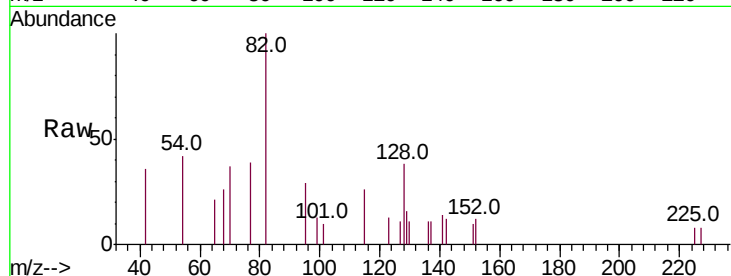
ClientSampleId :

S301-J-2.0-2.5-081919DL

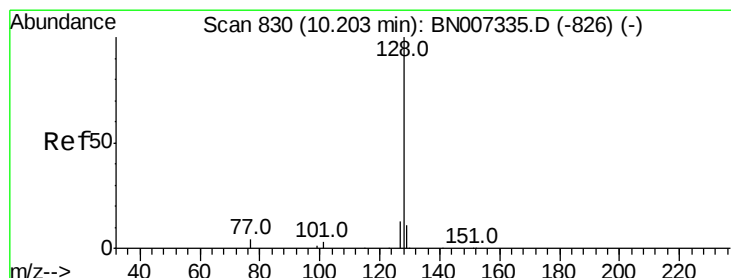
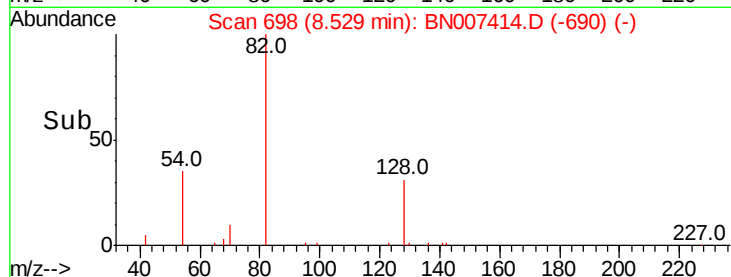
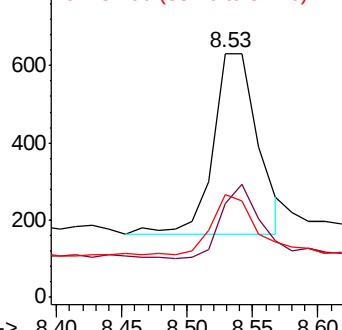
Tot Ion:	82	Resp:	1104
Ion	Ratio	Lower	Upper
82	100		
128	38.4	19.7	29.5#
54	42.0	25.8	38.6#

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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: 0.072 ng

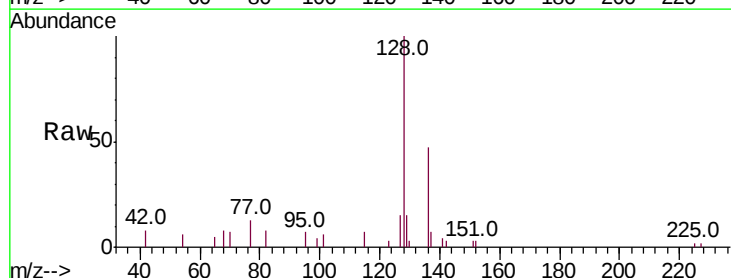
RT: 10.20 min Scan# 830

Delta R.T. -0.00 min

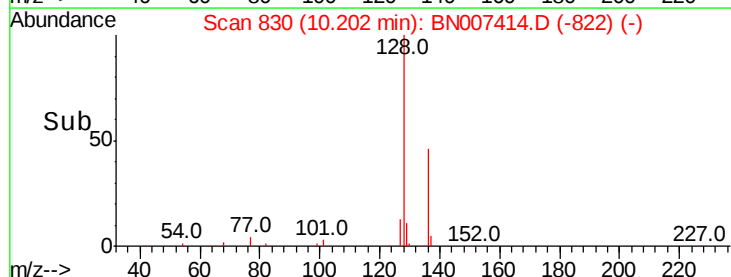
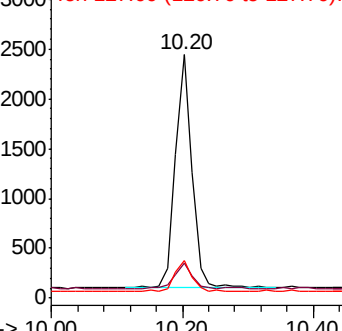
Lab File: BN007414.D

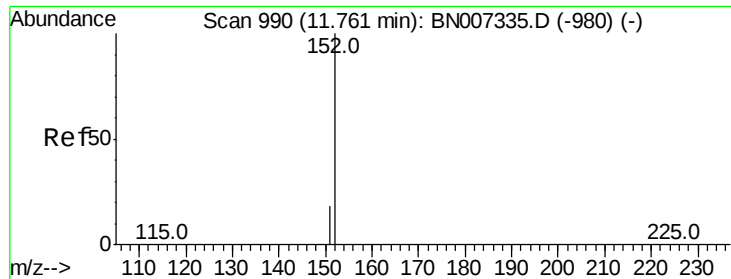
Acq: 26 Aug 2019 17:49

Tgt Ion:	128	Resp:	4081
Ion	Ratio	Lower	Upper
128	100		
129	14.6	11.1	16.7
127	15.3	15.5	23.3#



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





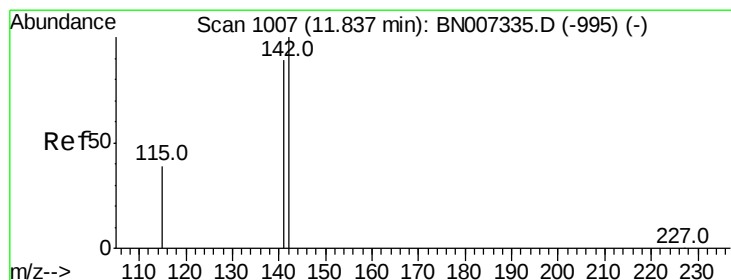
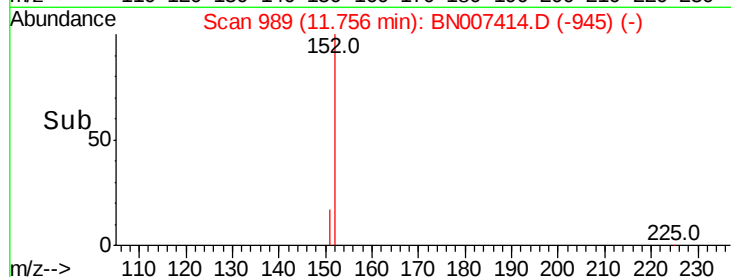
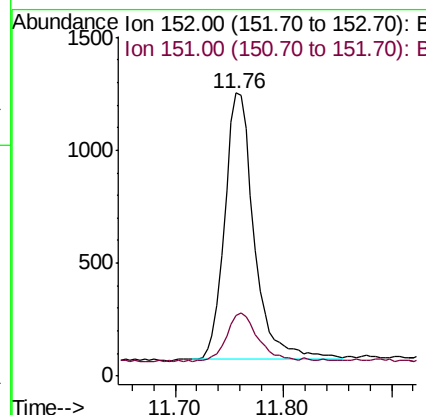
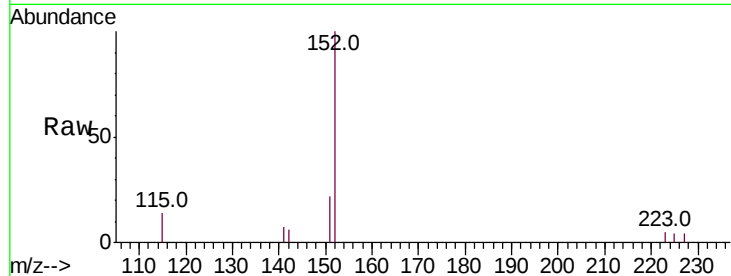
#11
2-Methylnaphthalene-d10
Concen: 0.068 ng
RT: 11.76 min Scan# 989
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Instrument :
BNA_N
ClientSampleId :
S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.2	24.2

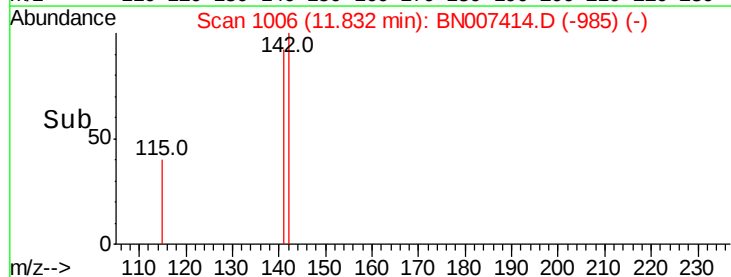
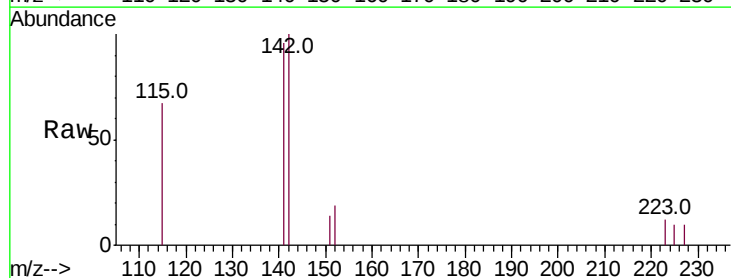
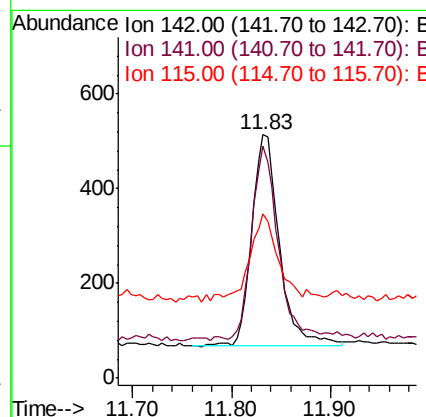
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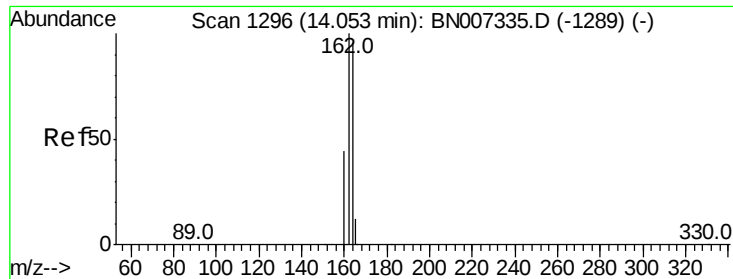
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#12
2-Methylnaphthalene
Concen: 0.023 ng
RT: 11.83 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.5	72.8	109.2
115	67.3	35.2	52.8#





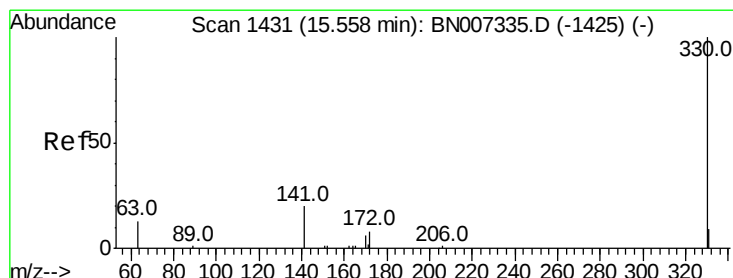
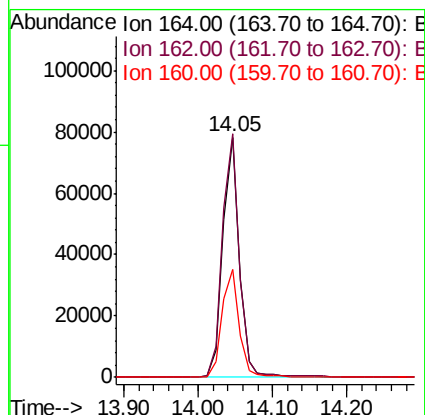
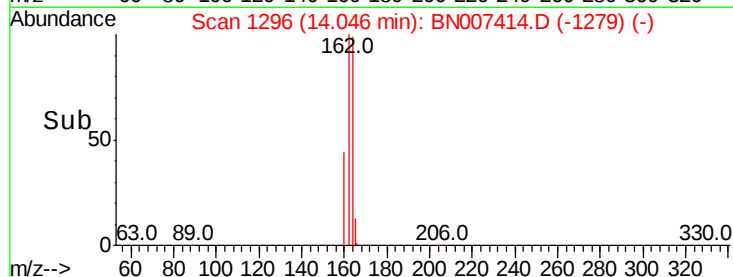
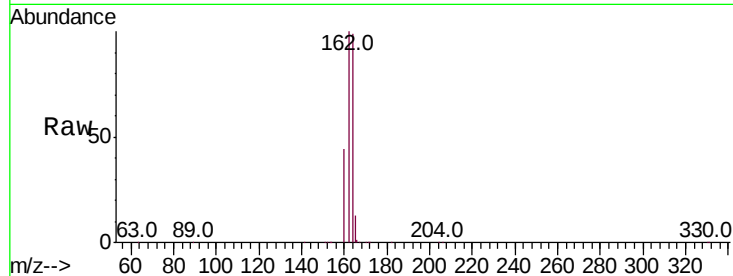
#13
Acenaphthene-d10
Concen: 4.000 ng
RT: 14.05 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Instrument :
BNA_N
ClientSampleId :
S301-J-2.0-2.5-081919DL

Tot Ion:	164	Resp:	121283
Ion Ratio	Lower	Upper	
164	100		
162	101.4	83.5	125.3
160	44.8	38.2	57.4

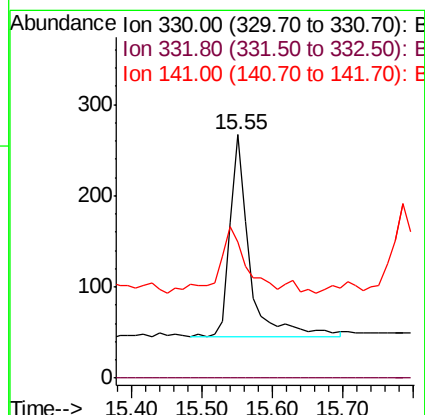
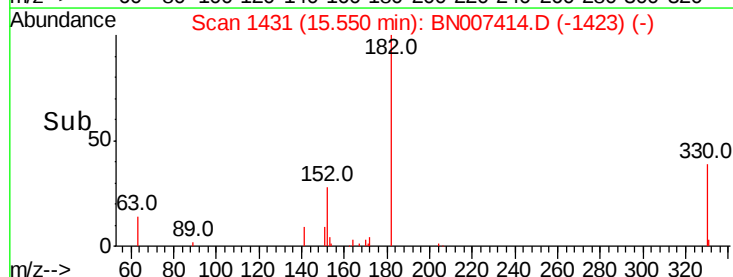
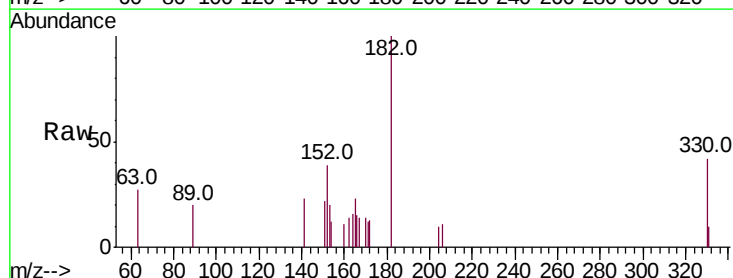
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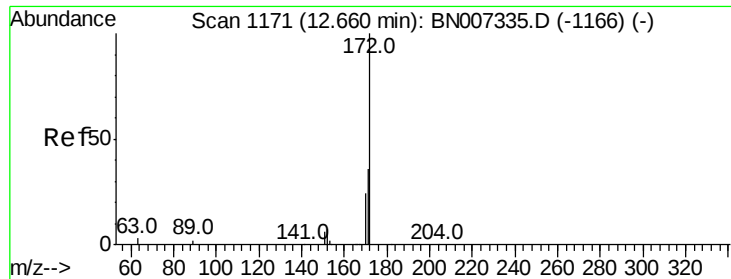
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#14
2,4,6-Tribromophenol
Concen: 0.067 ng
RT: 15.55 min Scan# 1431
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Tgt Ion:	330	Resp:	426
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	40.4	26.9	40.3#





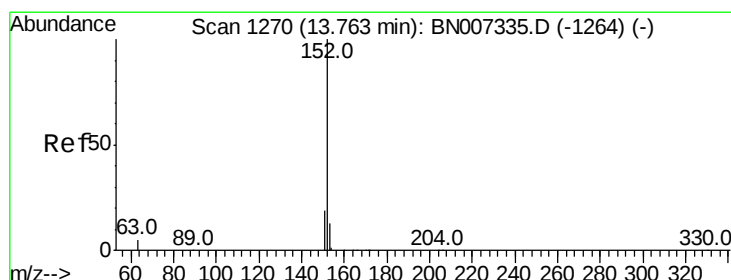
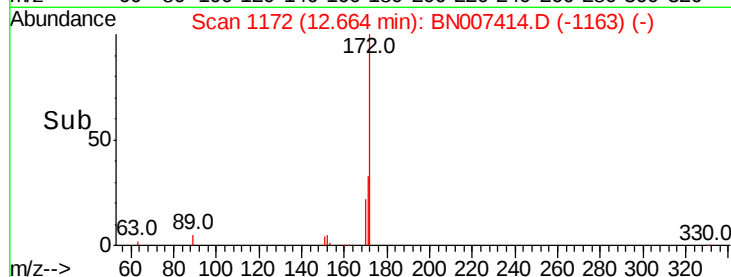
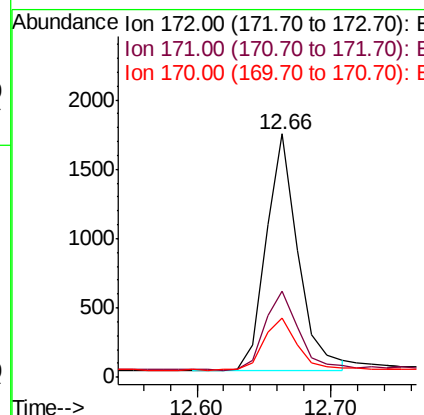
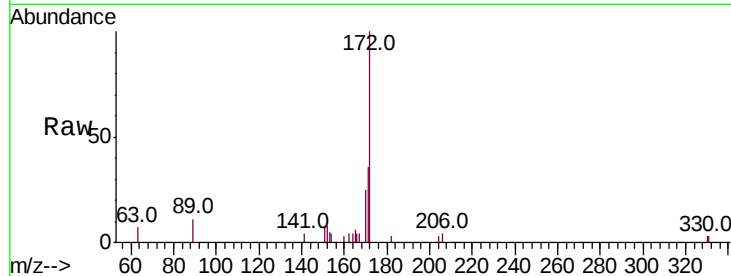
#15
2-Fluorobiphenyl
Concen: 0.058 ng
RT: 12.66 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Instrument :
BNA_N
ClientSampleId :
S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	30.3	45.5
170	24.6	20.7	31.1

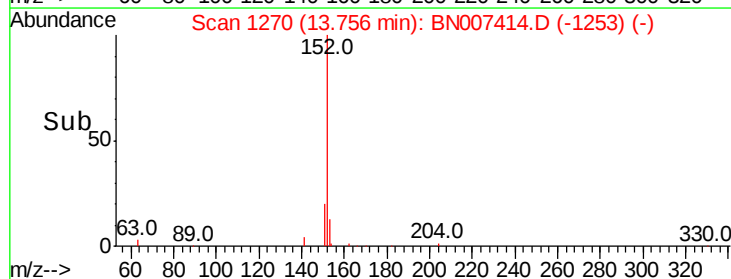
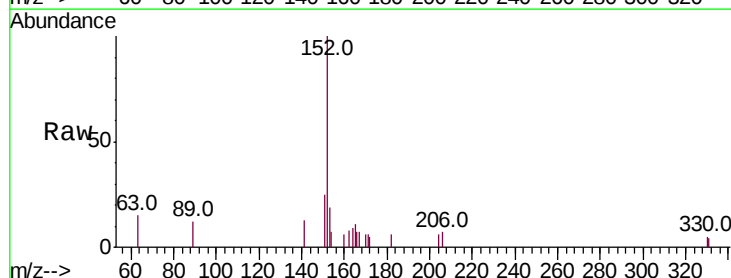
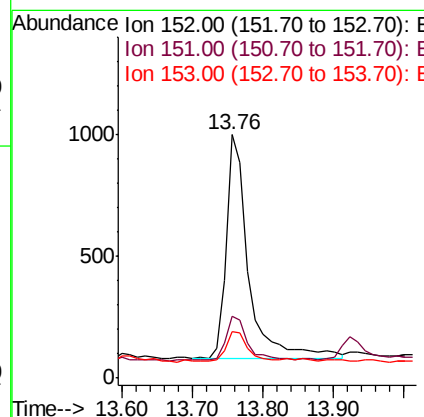
Manual Integrations
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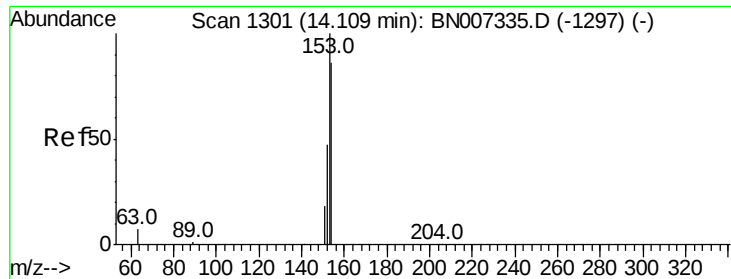
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8/30/2019 8:57:09 AM



#16
Acenaphthylene
Concen: 0.029 ng
RT: 13.76 min Scan# 1270
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.6	16.1	24.1
153	12.4	10.6	15.8





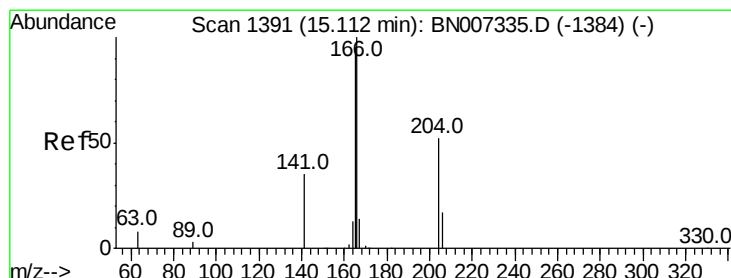
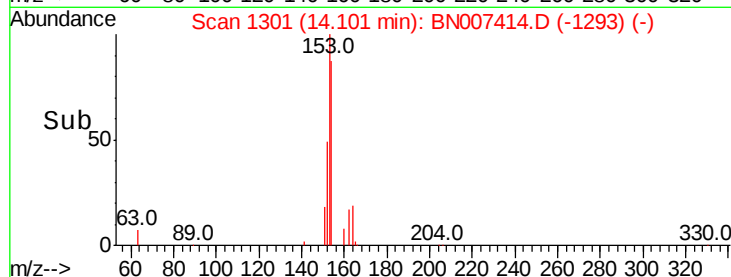
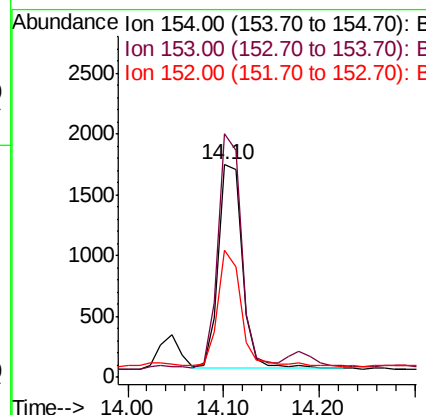
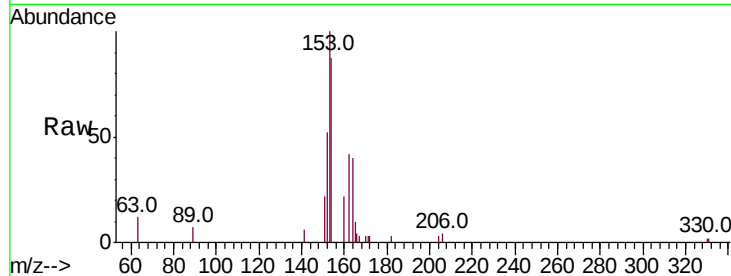
#17
Acenaphthene
Concen: 0.070 ng
RT: 14.10 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Instrument :
BNA_N
ClientSampleId :
S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	111.4	92.8	139.2
152	56.8	43.8	65.8

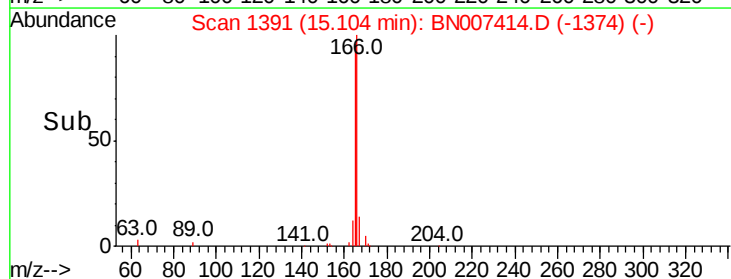
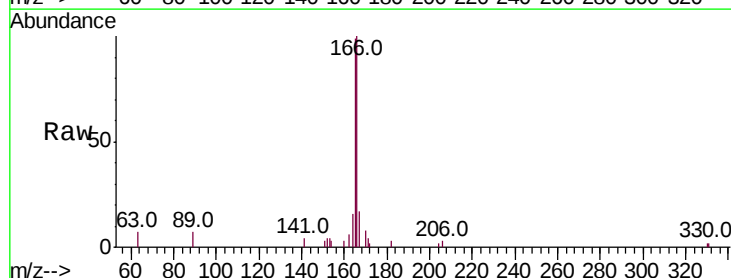
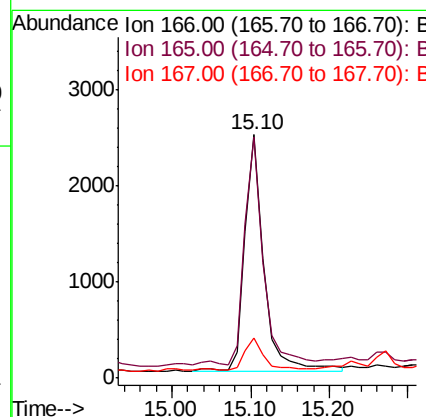
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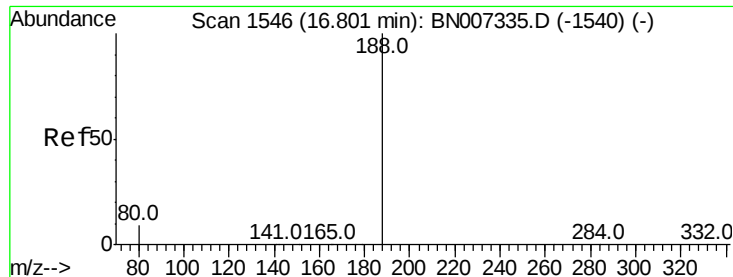
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#18
Fluorene
Concen: 0.078 ng
RT: 15.10 min Scan# 1391
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.0	118.4
167	14.1	10.6	15.8





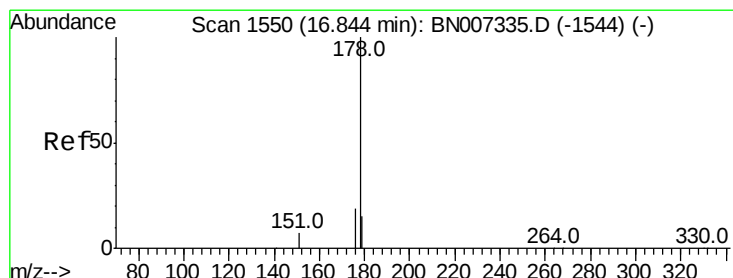
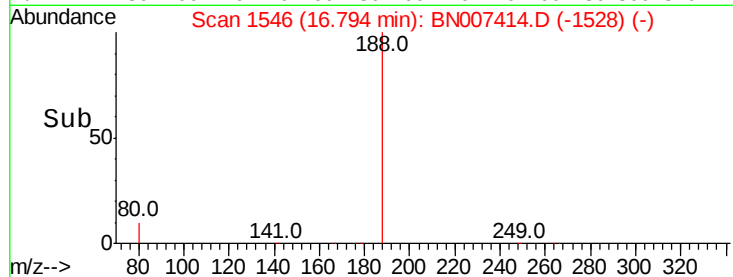
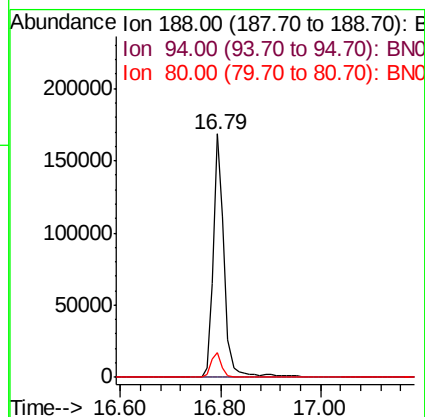
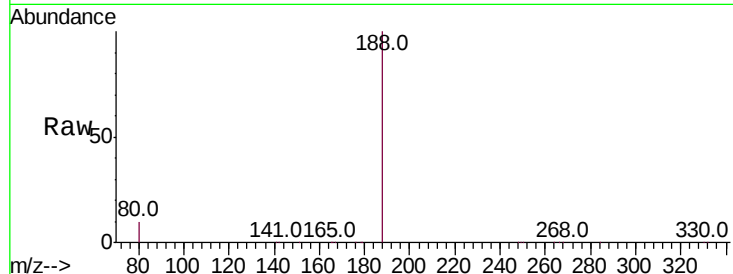
#19
Phenanthrene-d10
Concen: 4.000 ng
RT: 16.79 min Scan# 1546
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Instrument :
BNA_N
ClientSampleId :
S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	0.0	0.0	0.0
80	10.1	11.8	17.8

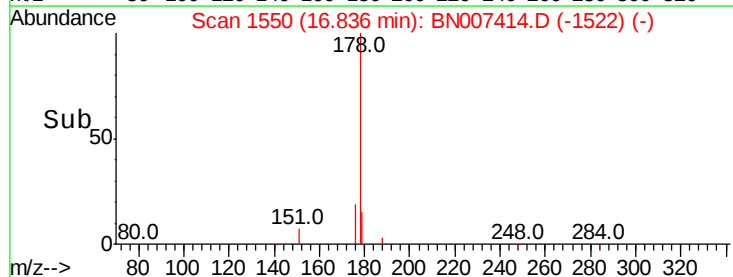
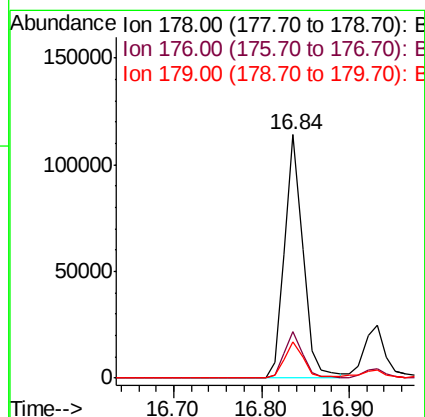
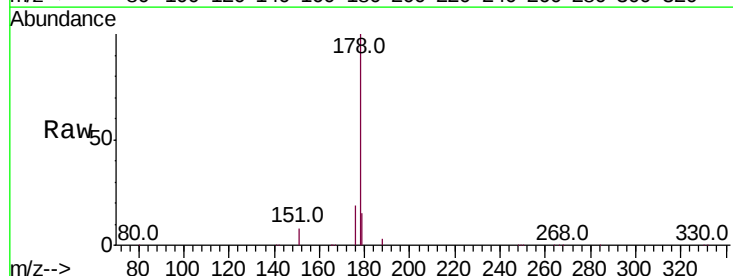
Manual Integrations
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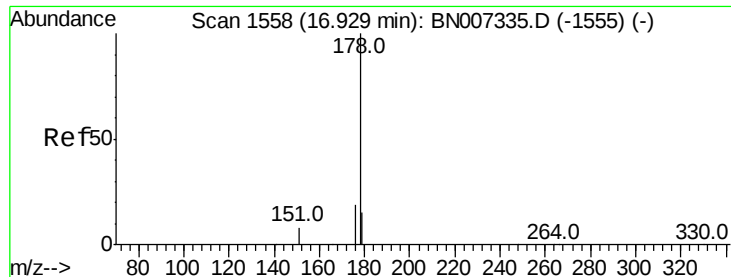
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#23
Phenanthrene
Concen: 2.118 ng
RT: 16.84 min Scan# 1550
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.1	15.3	22.9
179	15.2	12.6	19.0





#24

Anthracene

Concen: 0.533 ng

RT: 16.93 min Scan# 1559

Delta R.T. 0.00 min

Lab File: BN007414.D

Acq: 26 Aug 2019 17:49

Instrument :

BNA_N

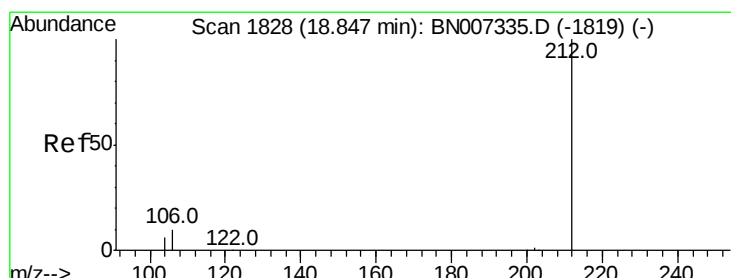
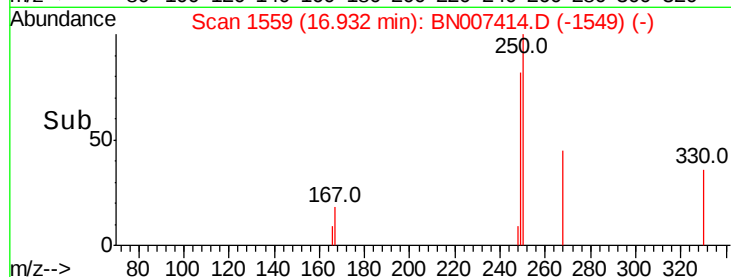
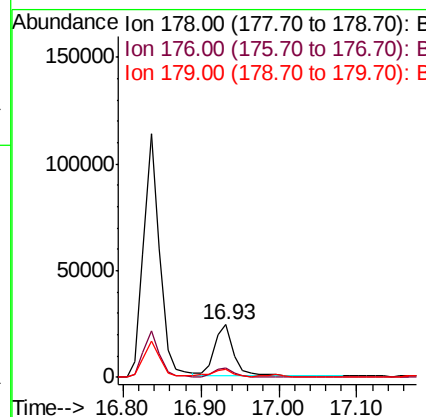
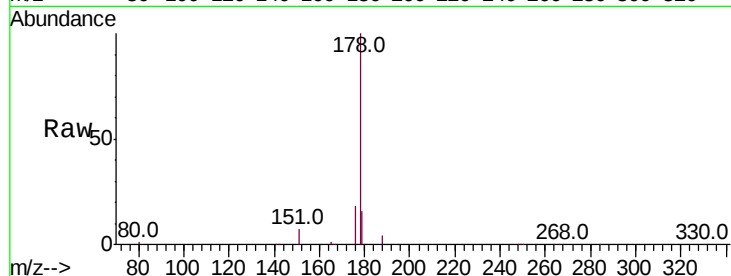
ClientSampleId :

S301-J-2.0-2.5-081919DL

Tot Ion:	178	Resp:	42007
Ion Ratio	Lower	Upper	
178	100		
176	17.7	14.9	22.3
179	15.1	12.4	18.6

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#25

Fluoranthene-d10

Concen: 0.064 ng

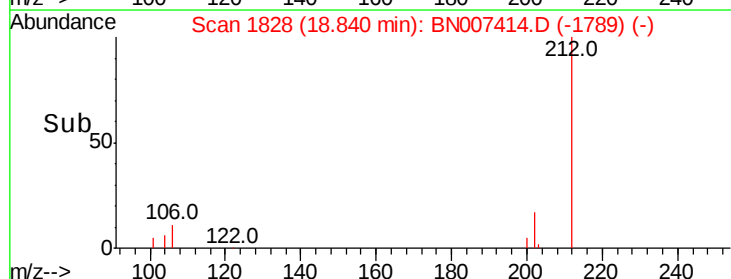
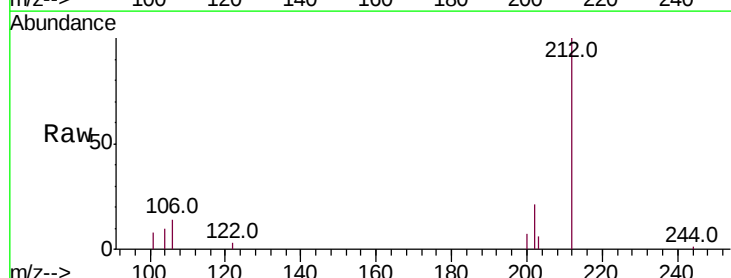
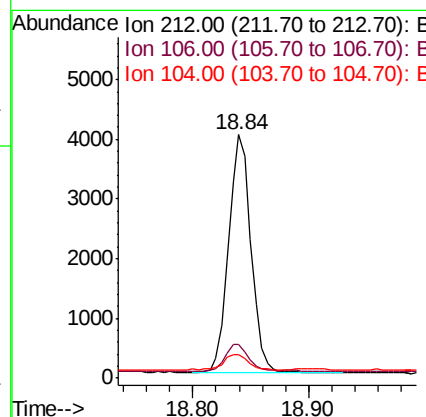
RT: 18.84 min Scan# 1828

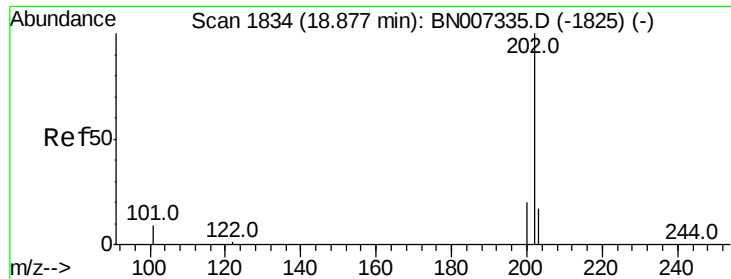
Delta R.T. -0.01 min

Lab File: BN007414.D

Acq: 26 Aug 2019 17:49

Tgt Ion:	212	Resp:	5364
Ion Ratio	Lower	Upper	
212	100		
106	12.0	9.0	13.4
104	7.5	5.4	8.2





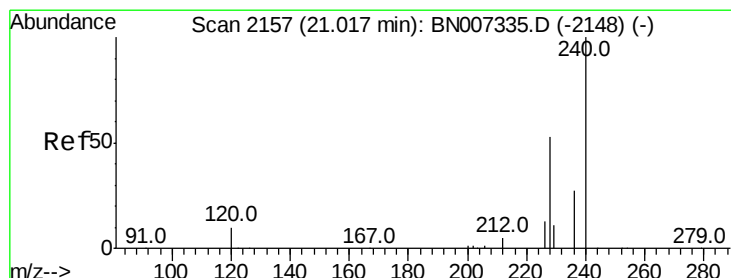
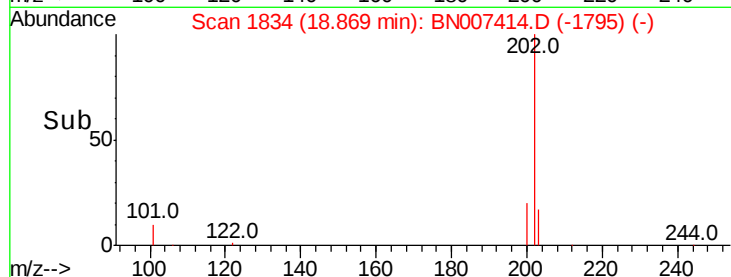
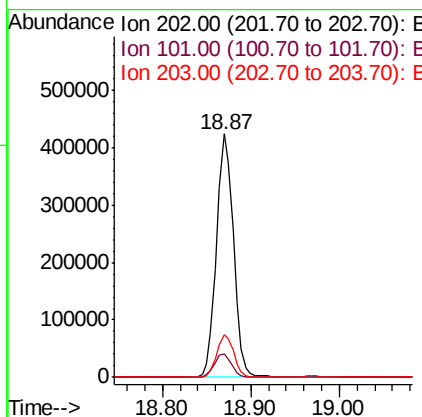
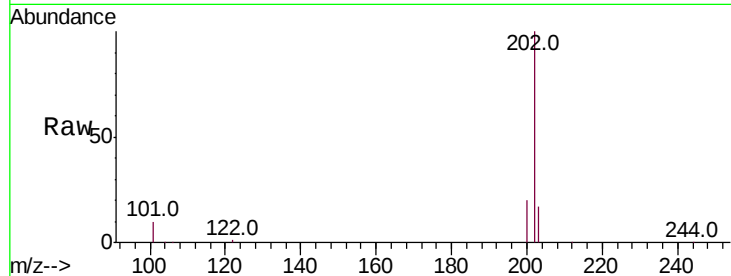
#26
Fluoranthene
 Concen: 5.660 ng
 RT: 18.87 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: BN007414.D
 Acq: 26 Aug 2019 17:49

Instrument :
 BNA_N
 ClientSampleId :
 S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	569484		
101	9.8		7.7	11.5
203	17.3		13.7	20.5

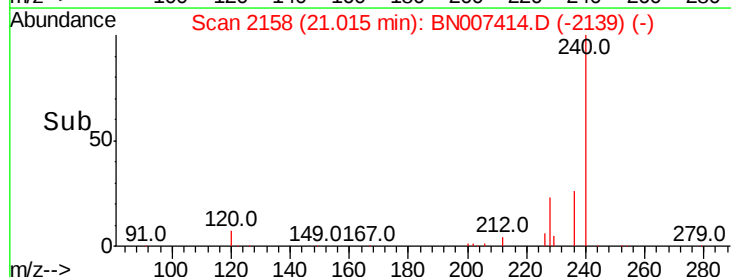
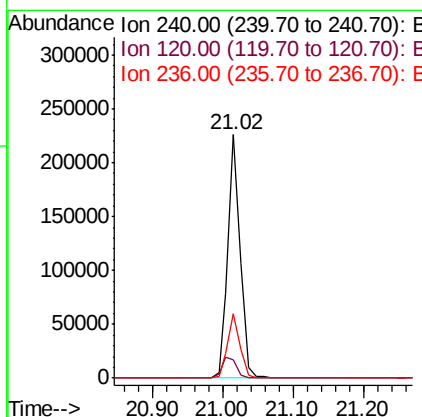
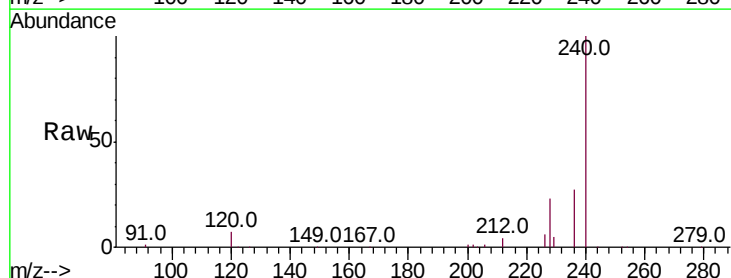
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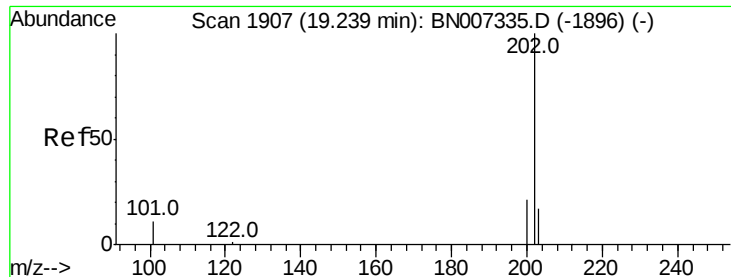
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#27
Chrysene-d12
 Concen: 4.000 ng
 RT: 21.02 min Scan# 2158
 Delta R.T. -0.00 min
 Lab File: BN007414.D
 Acq: 26 Aug 2019 17:49

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	276217		
120	7.3		9.6	14.4#
236	26.5		22.2	33.2





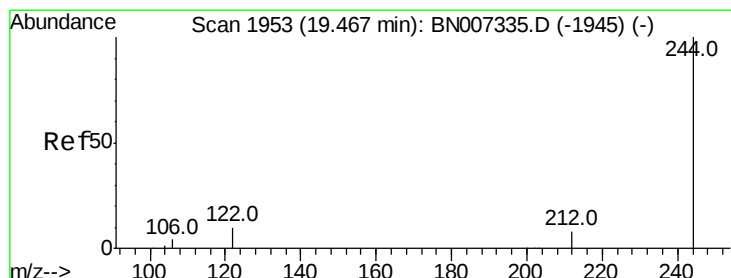
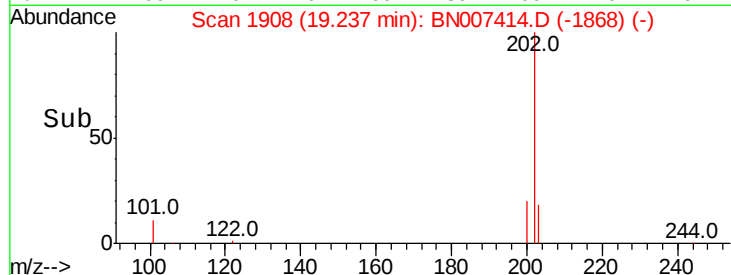
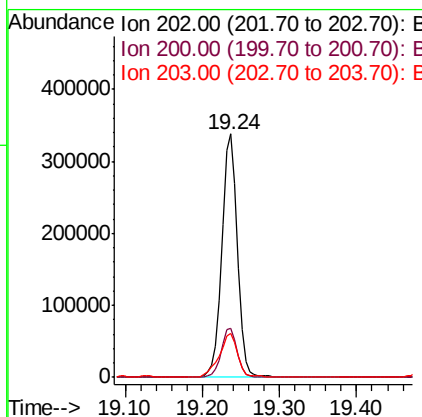
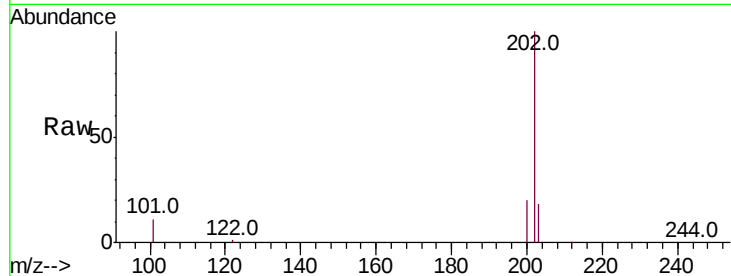
#28
Pvrene
Concen: 4.226 ng
RT: 19.24 min Scan# 1908
Delta R.T. -0.00 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Instrument :
BNA_N
ClientSampleId :
S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	469555		
200	20.7		16.6	25.0
203	21.3		14.2	21.4

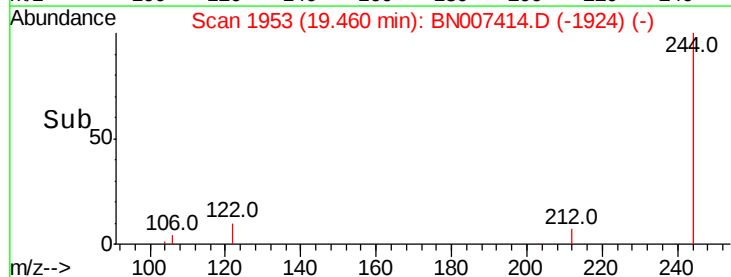
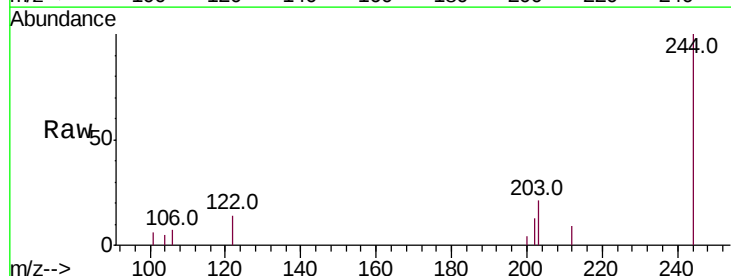
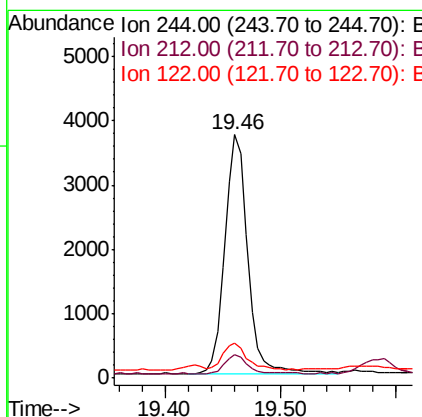
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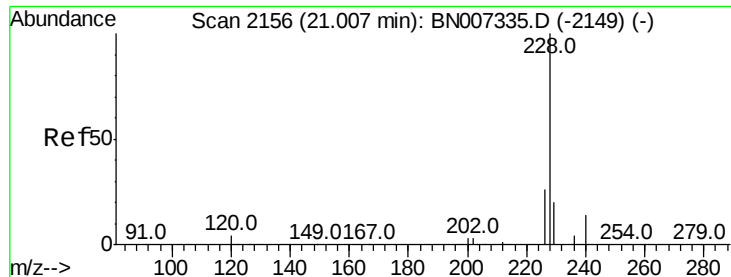
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#29
Terphenyl-d14
Concen: 0.071 ng
RT: 19.46 min Scan# 1953
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	5150		
212	9.5		7.0	10.6
122	14.3		9.6	14.4





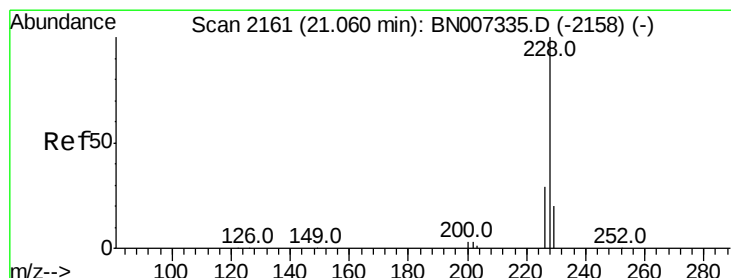
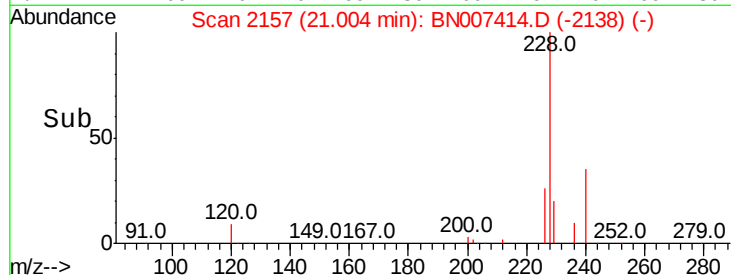
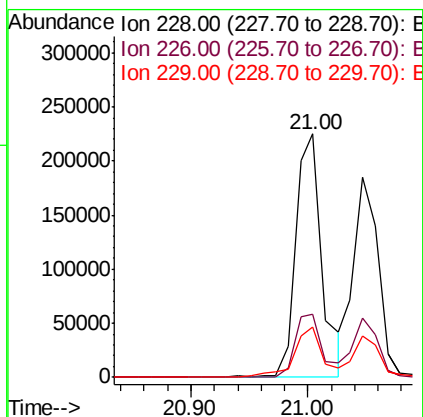
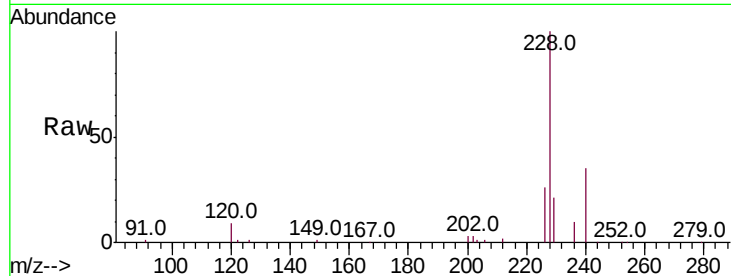
#30
Benzo(a)anthracene
Concen: 3.244 ng
RT: 21.00 min Scan# 2157
Delta R.T. -0.00 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Instrument :
BNA_N
ClientSampleId :
S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.1	21.3	31.9
229	20.5	16.1	24.1

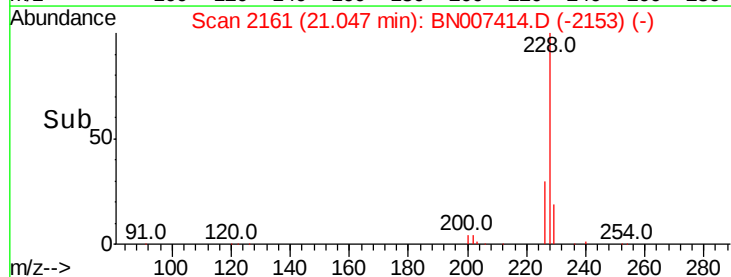
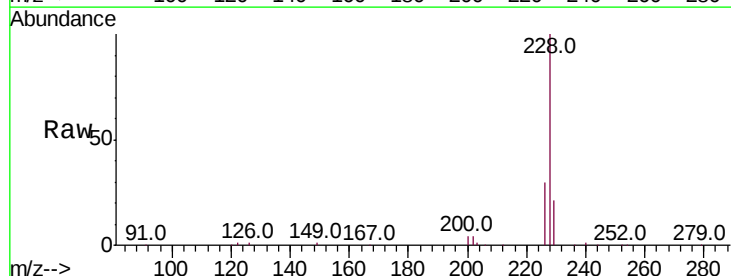
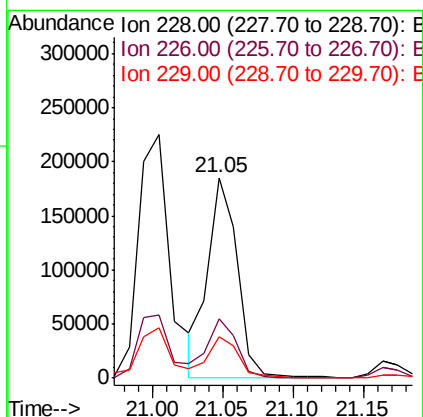
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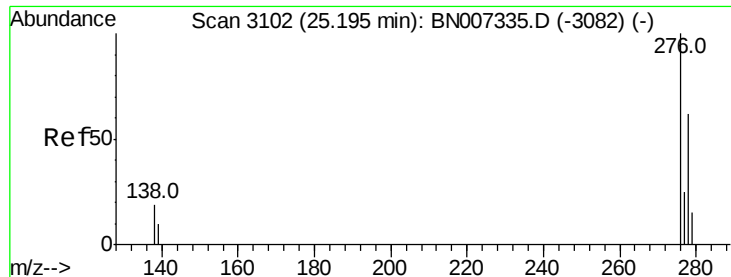
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#31
Chrysene
Concen: 2.554 ng
RT: 21.05 min Scan# 2161
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.5	35.3
229	20.9	16.6	24.8





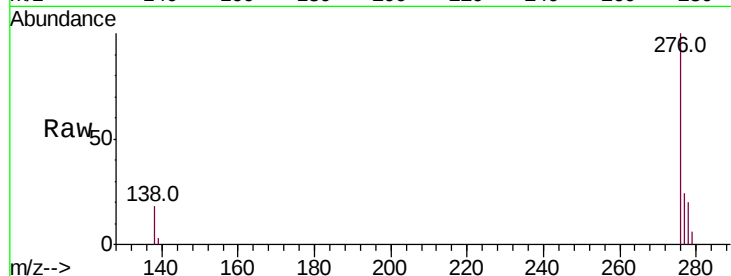
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 1.206 ng
 RT: 25.18 min Scan# 3098
 Delta R.T. -0.02 min
 Lab File: BN007414.D
 Acq: 26 Aug 2019 17:49

Instrument :
 BNA_N
 ClientSampleId :
 S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.0	15.1	22.7
277	25.4	19.7	29.5

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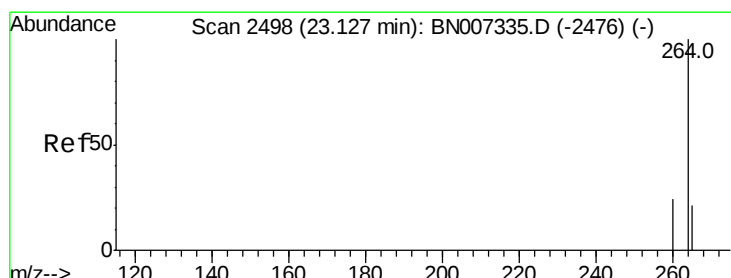
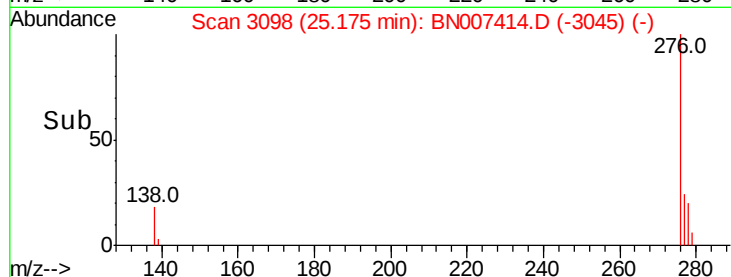
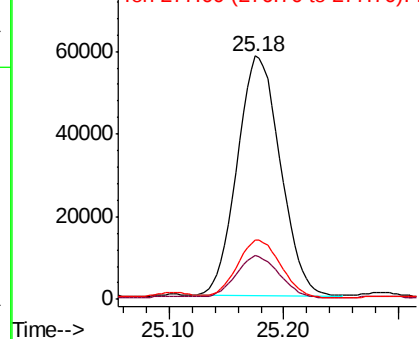


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34
 Perylene-d12
 Concen: 4.000 ng
 RT: 23.12 min Scan# 2497
 Delta R.T. -0.01 min
 Lab File: BN007414.D
 Acq: 26 Aug 2019 17:49

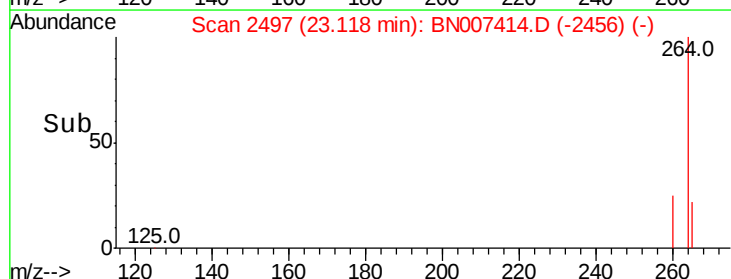
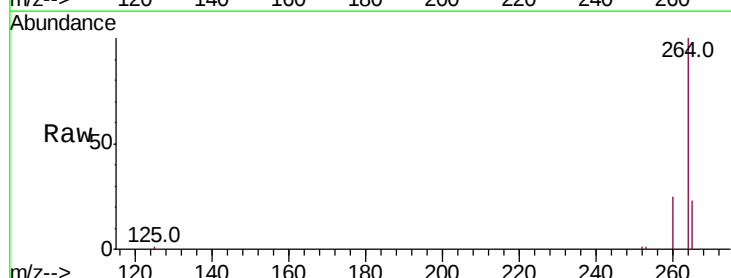
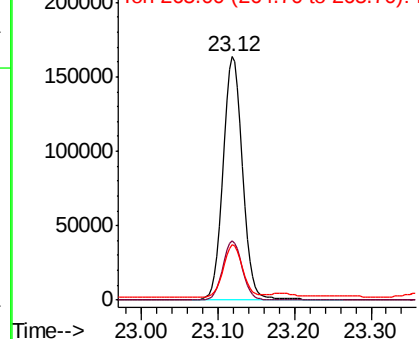
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.7	29.5
265	22.6	29.9	44.9#

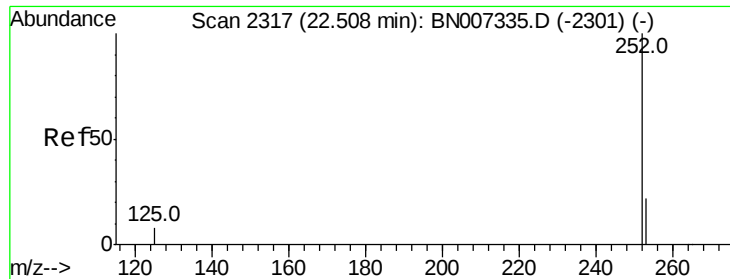
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





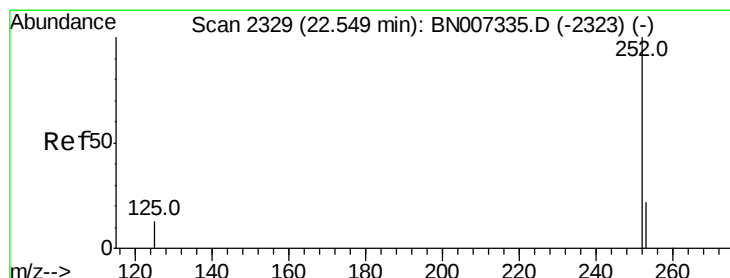
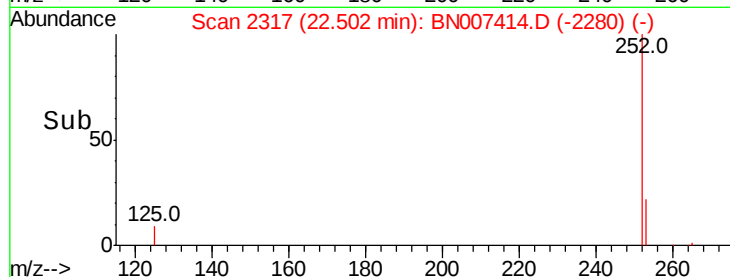
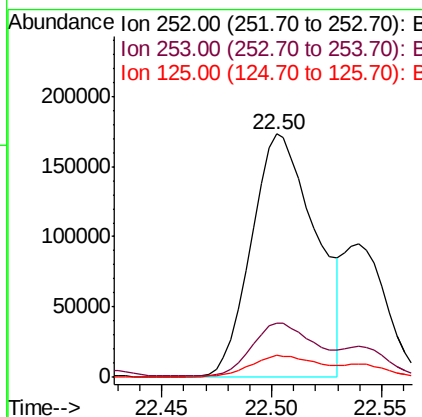
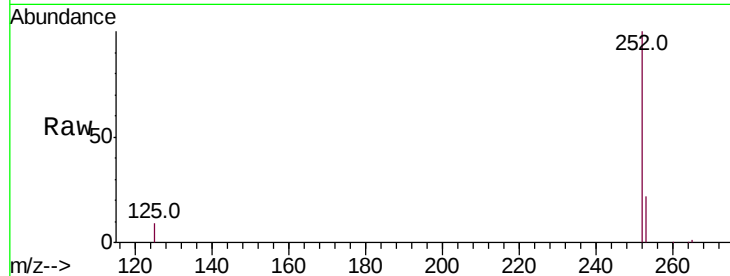
#35
Benzo(b)fluoranthene
Concen: 3.287 ng m
RT: 22.50 min Scan# 2317
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Instrument :
BNA_N
ClientSampleId :
S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	19.2	28.8
125	8.9	10.6	16.0

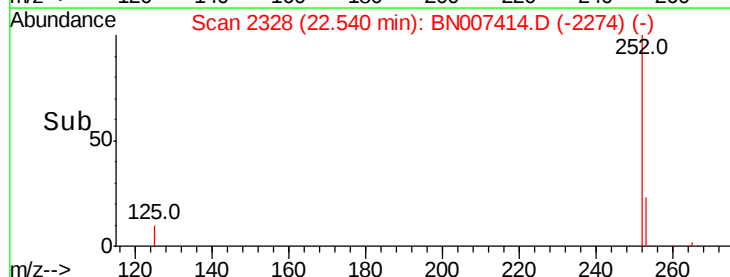
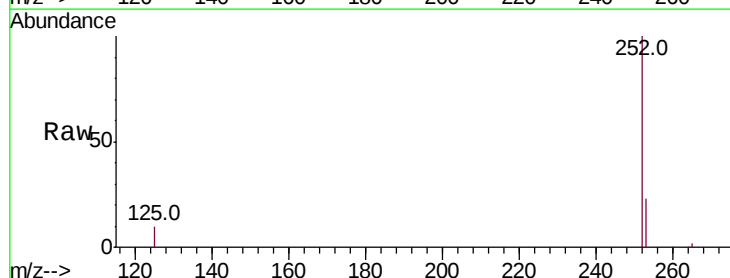
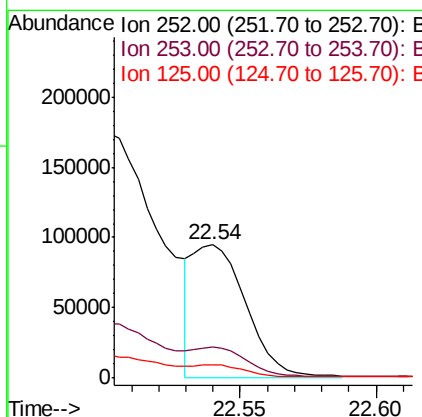
Manual Integrations
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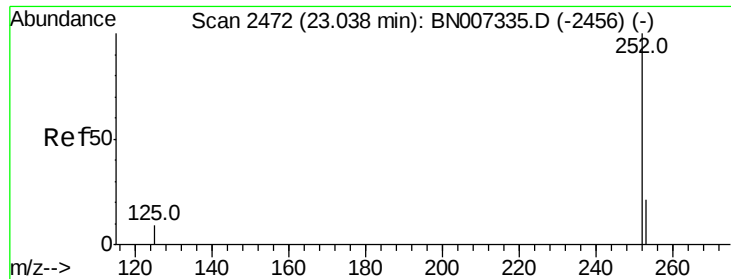
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#36
Benzo(k)fluoranthene
Concen: 1.232 ng m
RT: 22.54 min Scan# 2328
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	19.4	29.2
125	9.8	13.1	19.7





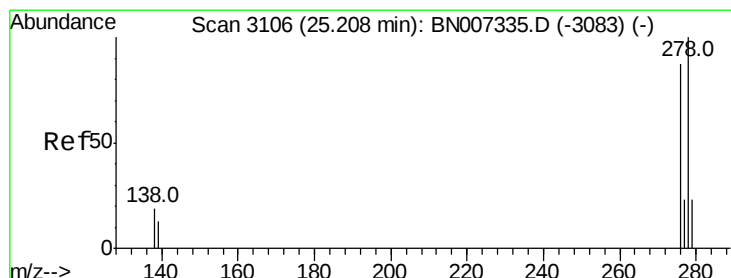
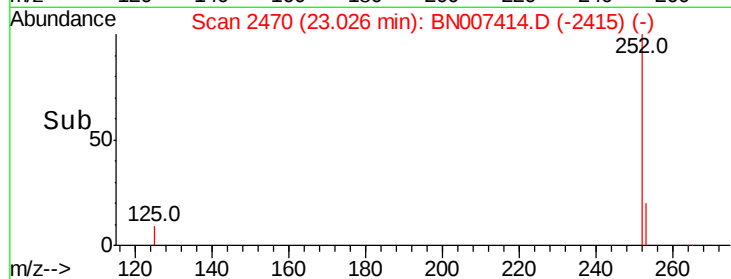
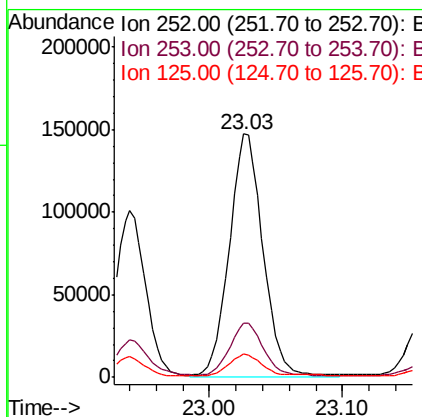
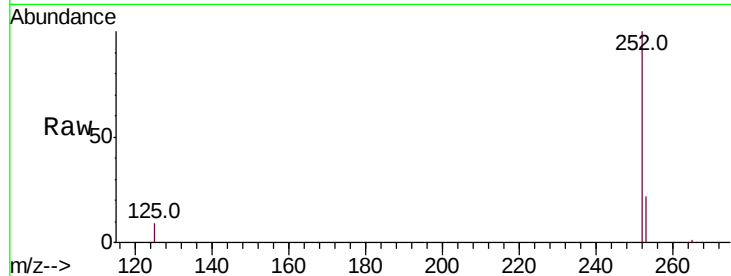
#37
Benzo(a)pyrene
Concen: 2.532 ng m
RT: 23.03 min Scan# 2470
Delta R.T. -0.01 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Instrument :
BNA_N
ClientSampleId :
S301-J-2.0-2.5-081919DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.5	29.3
125	9.4	12.1	18.1

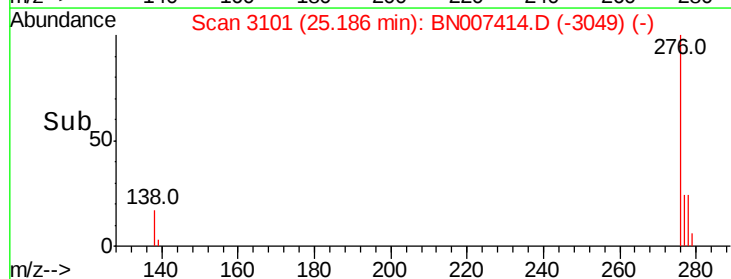
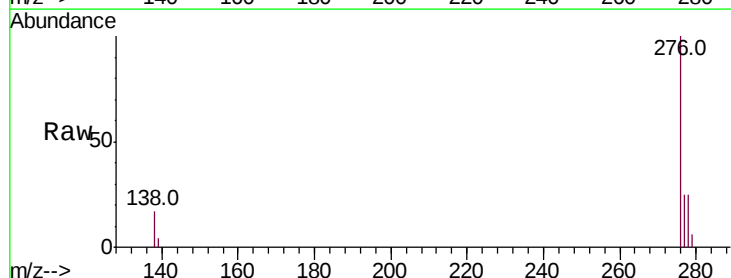
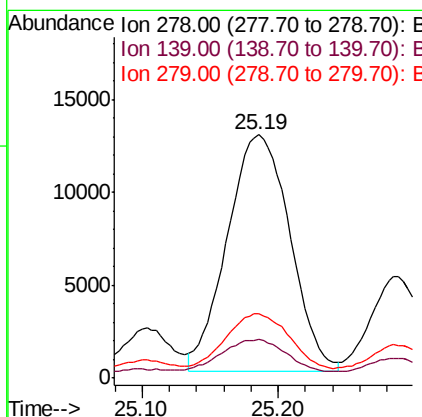
Manual Integrations
APPROVED

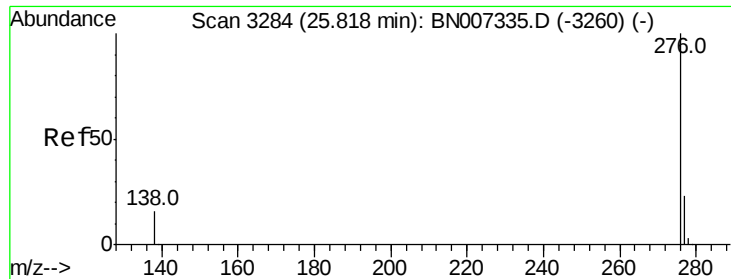
JAGRUT
8/30/2019 8:57:09 AM



#38
Dibenzo(a,h)anthracene
Concen: 0.400 ng
RT: 25.19 min Scan# 3101
Delta R.T. -0.02 min
Lab File: BN007414.D
Acq: 26 Aug 2019 17:49

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.0	13.7	20.5
279	26.5	20.2	30.4





#39

Benzo(a,h,i)perylene

Concen: 1.358 ng

RT: 25.81 min Scan# 3282

Delta R.T. -0.01 min

Lab File: BN007414.D

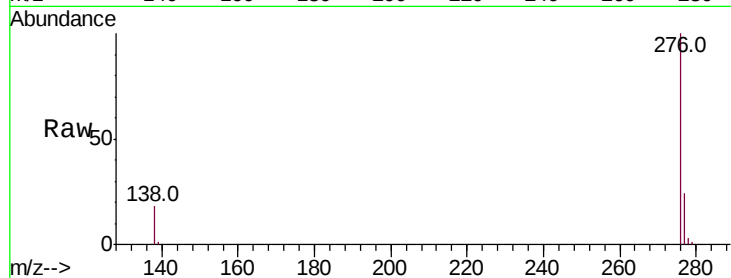
Acq: 26 Aug 2019 17:49

Instrument :

BNA_N

ClientSampleId :

S301-J-2.0-2.5-081919DL



Tot Ion	Ion	Ratio	Resp	Lower	Upper
137790	276	100			
	277	24.2		19.6	29.4
	138	17.8		16.3	24.5

Manual Integrations
APPROVED

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8/30/2019 8:57:09 AM

