

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
 Data File : BN007228.D
 Acq On : 16 Aug 2019 18:12
 Operator : HP/JU
 Sample : K4282-16
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Manual Integrations
 APPROVED

Quant Time: Aug 17 02:01:06 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 13 12:12:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	7238	0.40	ng	-0.02
6) Naphthalene-d8	10.17	136	27934	0.40	ng	-0.01
12) Acenaphthene-d10	14.06	164	15799	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	36630	0.40	ng	-0.01
26) Chrysene-d12	21.03	240	36200	0.40	ng	-0.02
32) Perylene-d12	23.15	264	39423	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	5363	0.31	ng	0.00
4) Phenol-d6	6.61	99	7170	0.33	ng	0.00
7) Nitrobenzene-d5	8.55	82	5733	0.25	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	11119	0.21	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	1466	0.17	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	896	0.04	ng	0.00
24) Fluoranthene-d10	18.86	212	22706	0.17	ng	-0.01
28) Terphenyl-d14	19.48	244	15927	0.16	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	3639	0.046	ng	# 92
15) Acenaphthylene	13.78	152	18350	0.222	ng	97
16) Acenaphthene	14.13	154	1568	0.030	ng	87
17) Fluorene	15.12	166	3480	0.044	ng	# 72
22) Phenanthrene	16.86	178	29731	0.271	ng	99
23) Anthracene	16.95	178	9099	0.091	ng	# 95
25) Fluoranthene	18.89	202	119673	0.852	ng	100
27) Pyrene	19.25	202	119109	0.938	ng	96
29) Benzo(a)anthracene	21.02	228	89280	0.674	ng	# 82
30) Chrysene	21.07	228	72855	0.566	ng	94
31) Indeno(1,2,3-cd)pyrene	25.22	276	52702	0.372	ng	99
33) Benzo(b)fluoranthene	22.53	252	105586	0.781	ng	97
34) Benzo(k)fluoranthene	22.57	252	38888m	0.291	ng	
35) Benzo(a)pyrene	23.05	252	72632	0.593	ng	97
36) Dibenzo(a,h)anthracene	25.22	278	14743	0.121	ng	# 74
37) Benzo(g,h,i)perylene	25.85	276	47945	0.381	ng	96

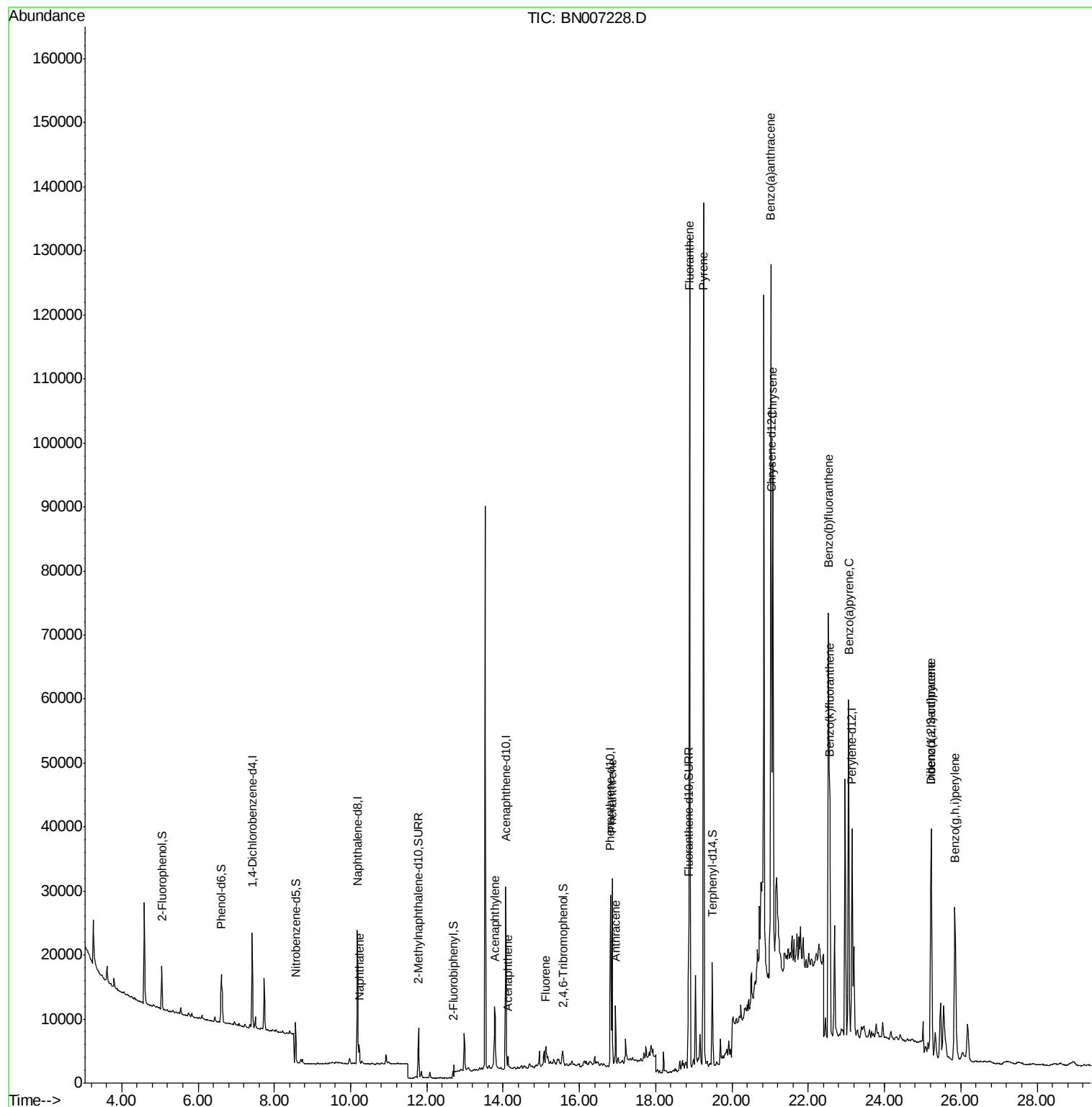
(#) = qualifier out of range (m) = manual integration (+) = signals summed

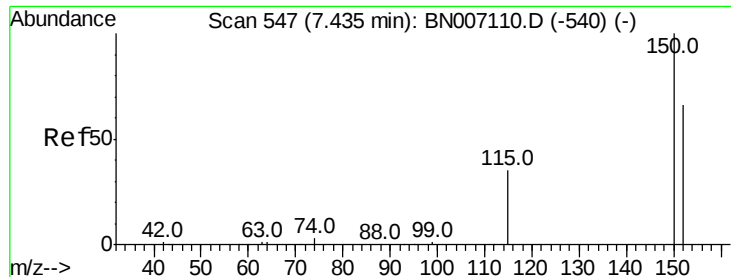
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 13 12:12:02 2019
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Manual Integrations
APPROVED





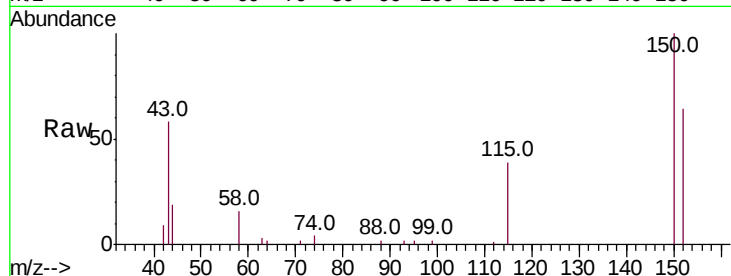
#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.42 min Scan# 545
Delta R.T. -0.02 min
Lab File: BN007228.D
Acq: 16 Aug 2019 18:12

Instrument :
BNA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	121.7	182.5
115	61.6	46.2	69.4

Manual Integrations
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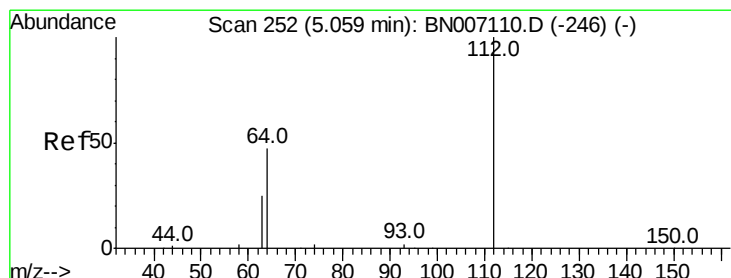
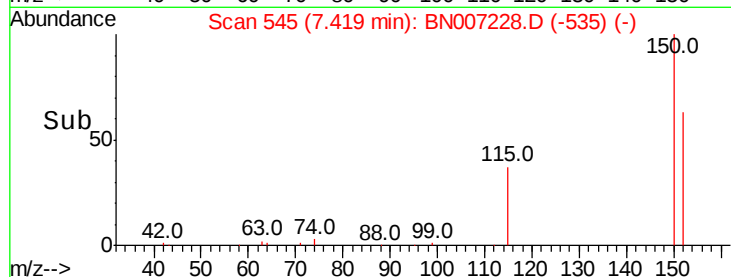
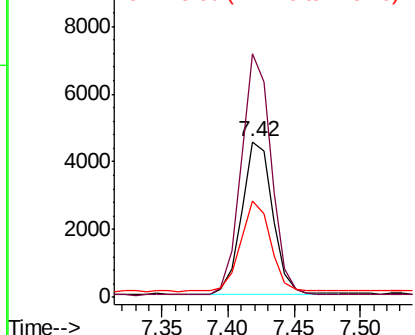


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

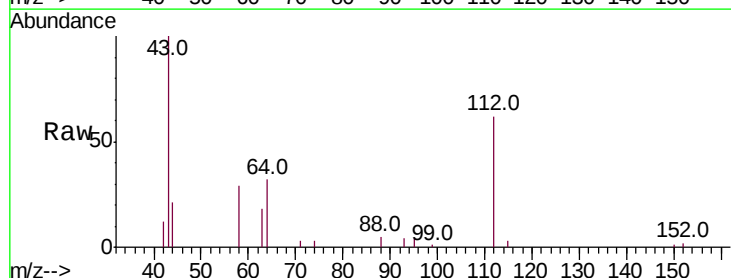
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.308 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007228.D
Acq: 16 Aug 2019 18:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.9	42.6	63.8
63	27.9	22.2	33.2

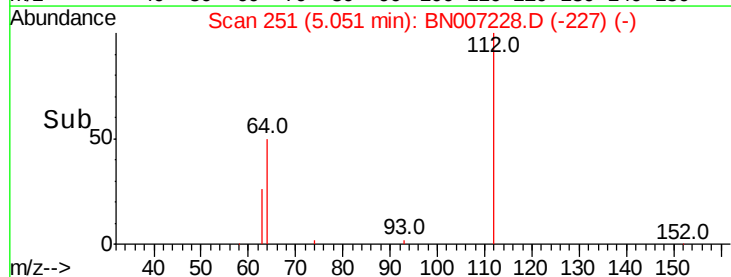
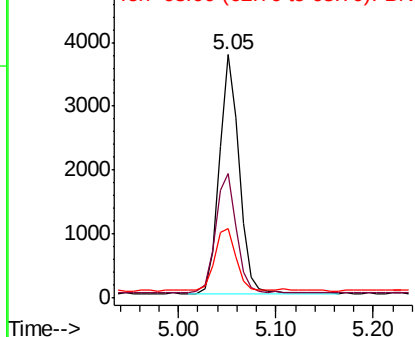


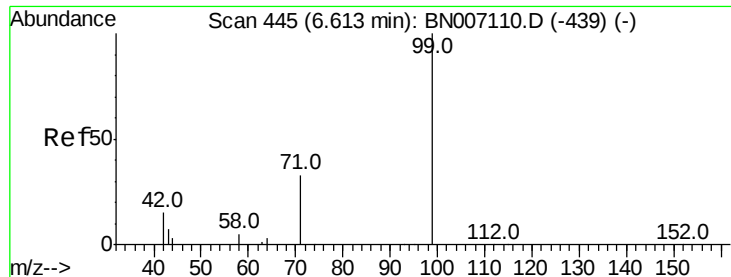
Abundance

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





#4

Phenol-d6

Concen: 0.333 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

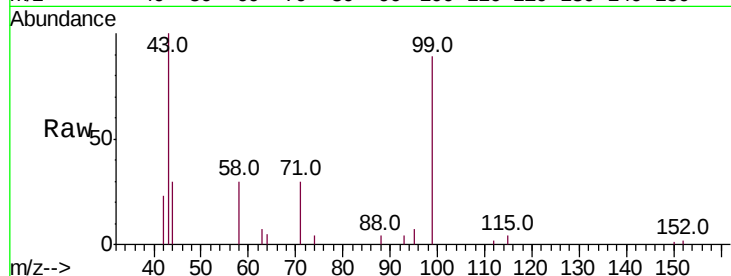
Instrument :

BNA_N

ClientSampled :

Tot Ion:	99	Resp:	7170
Ion	Ratio	Lower	Upper
99	100		
42	21.7	15.8	23.6
71	35.2	27.0	40.4

Manual Integrations
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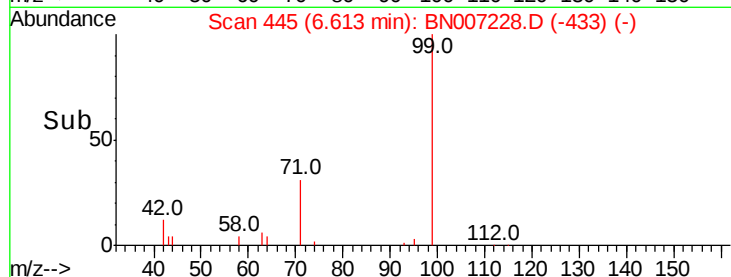


Abundance Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)

Time-->

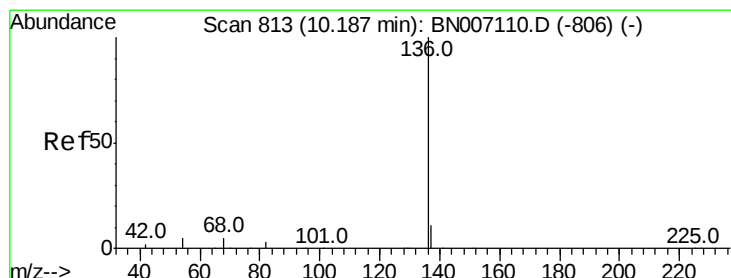


Abundance Ion 99.00 (98.70 to 99.70): BN007228.D (-433) (-)

Ion 42.00 (41.70 to 42.70): BN007228.D (-433) (-)

Ion 71.00 (70.70 to 71.70): BN007228.D (-433) (-)

Time-->



#6

Naphthalene-d8

Concen: 0.400 ng

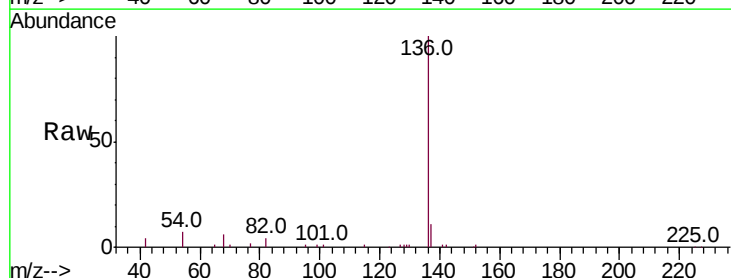
RT: 10.17 min Scan# 812

Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

Tgt Ion:	136	Resp:	27934
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.4	14.0
54	6.9	6.6	9.8
68	6.4	6.0	9.0



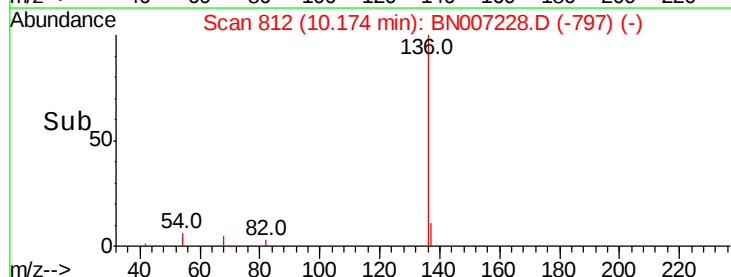
Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)

Time-->



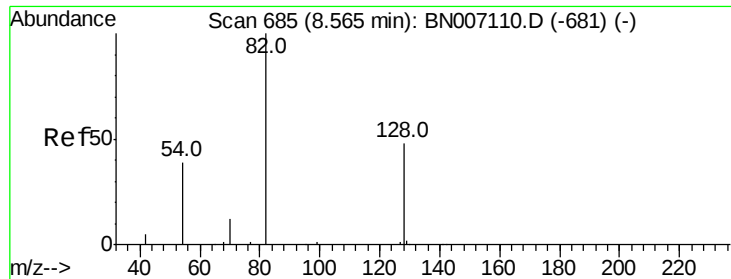
Abundance Ion 136.00 (135.70 to 136.70): BN007228.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007228.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007228.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007228.D (-797) (-)

Time-->



#7

Nitrobenzene-d5

Concen: 0.255 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

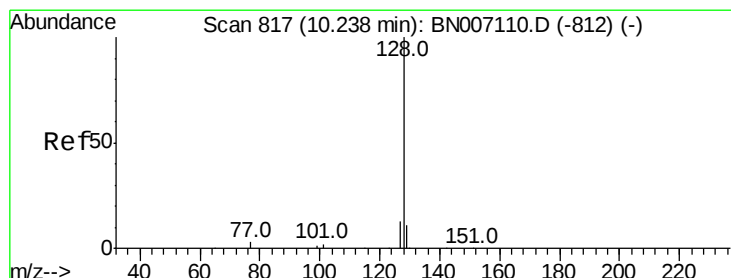
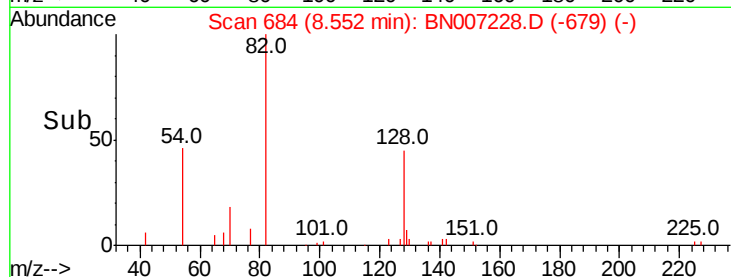
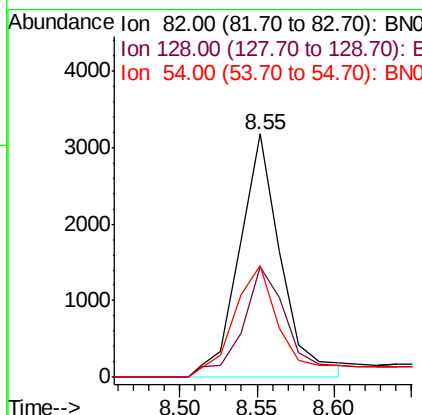
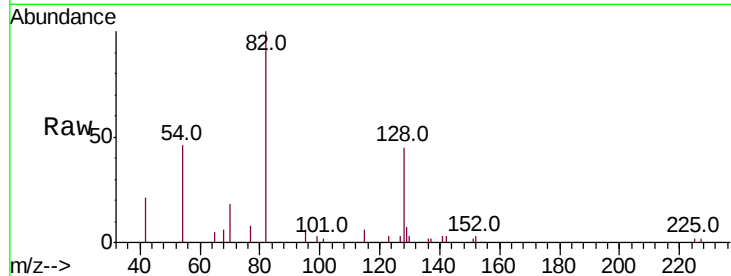
Instrument :

BNA_N

ClientSampled :

Tot Ion:	82	Resp:	5733
Ion Ratio	Lower	Upper	
82	100		
128	45.4	34.6	51.8
54	45.9	36.2	54.4

Manual Integrations
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#8

Naphthalene

Concen: 0.046 ng

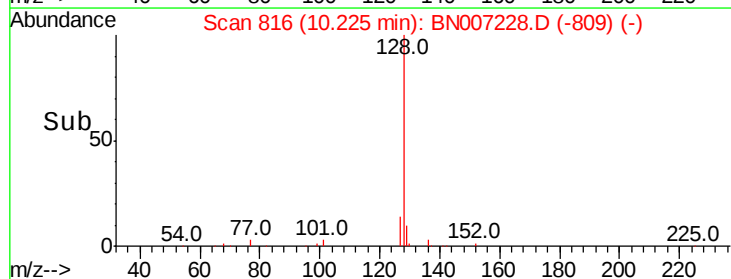
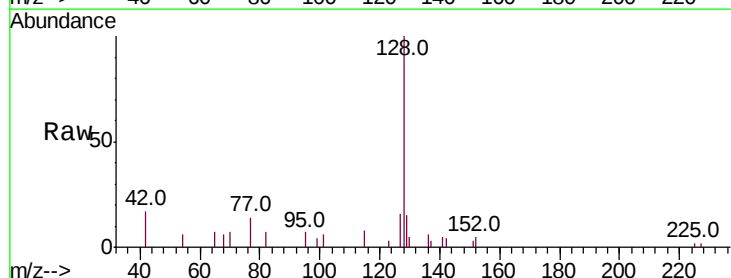
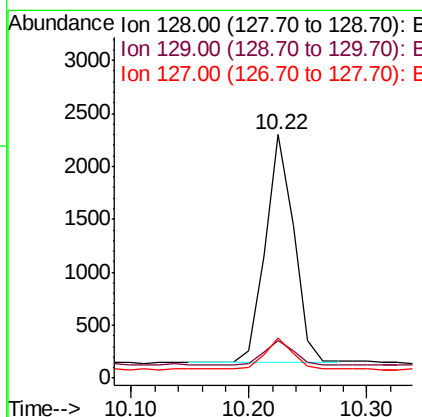
RT: 10.22 min Scan# 816

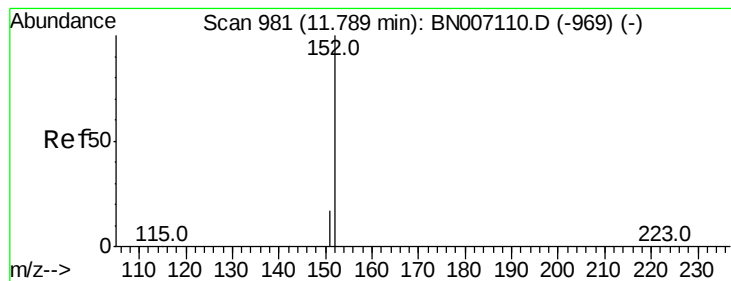
Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

Tgt Ion:	128	Resp:	3639
Ion Ratio	Lower	Upper	
128	100		
129	15.4	9.4	14.2#
127	16.4	11.0	16.6





#10

2-Methylnaphthalene-d10

Concen: 0.213 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

Instrument :

BNA_N

ClientSampleId :

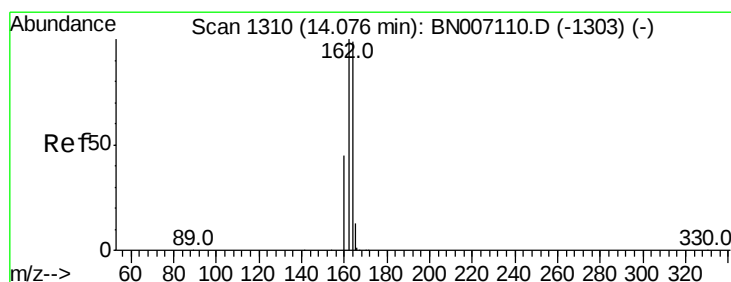
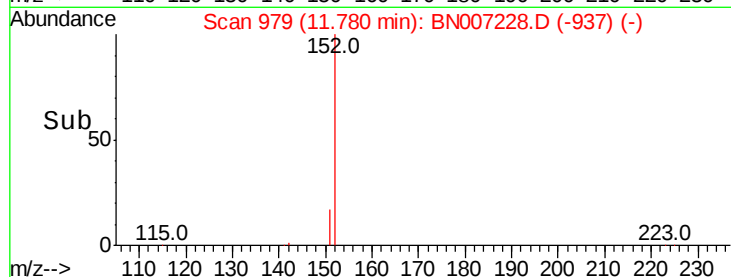
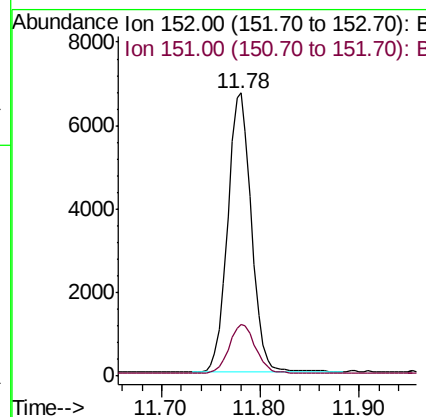
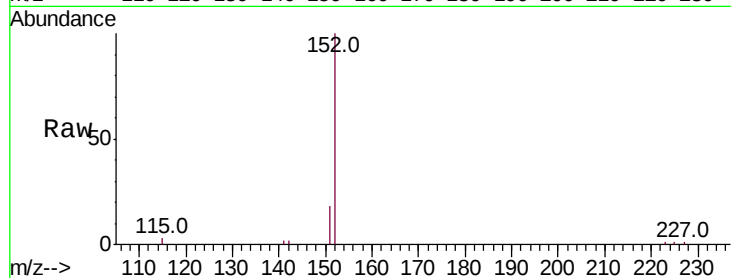
Tot Ion:152 Resp: 11119

Ion Ratio Lower Upper

152 100

151 19.2 15.5 23.3

Manual Integrations
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#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.06 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

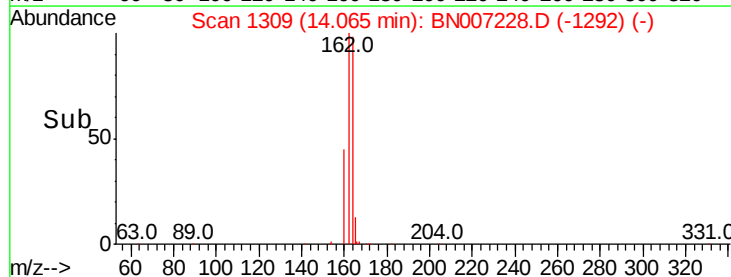
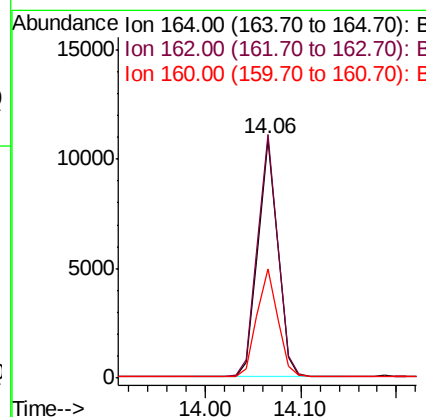
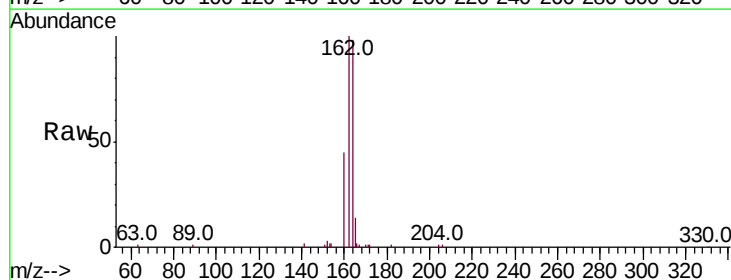
Tgt Ion:164 Resp: 15799

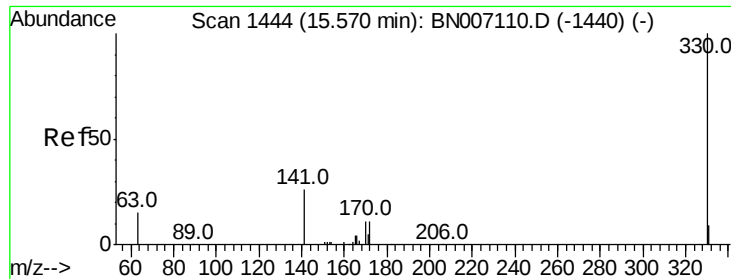
Ion Ratio Lower Upper

164 100

162 102.1 82.2 123.4

160 46.0 38.3 57.5



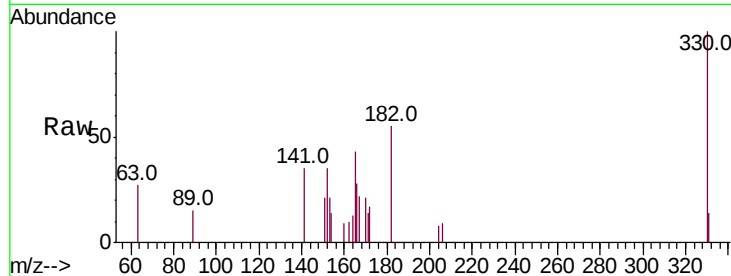


#13
 2,4,6-Tribromophenol
 Concen: 0.172 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007228.D
 Acq: 16 Aug 2019 18:12

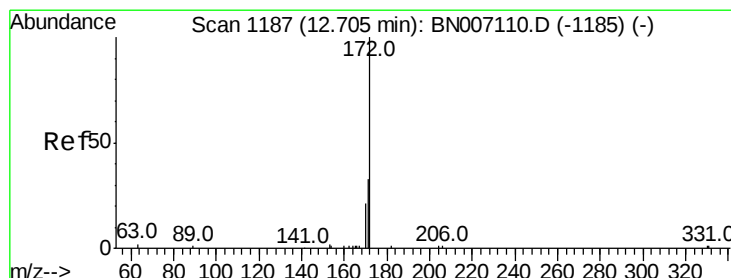
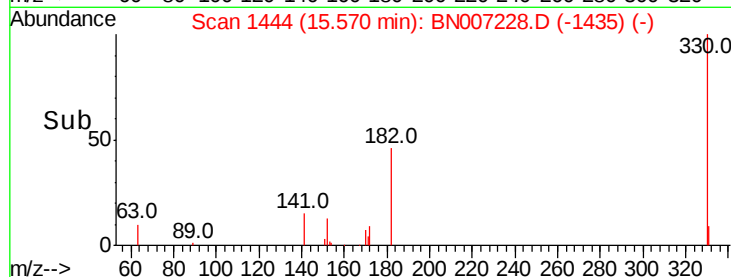
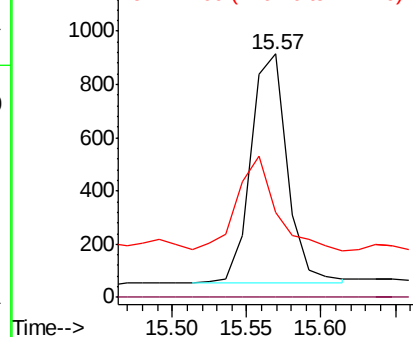
Instrument :
 BNA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	44.1	33.6	50.4

Manual Integrations
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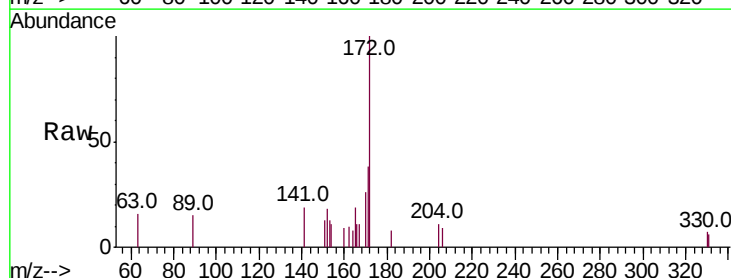


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

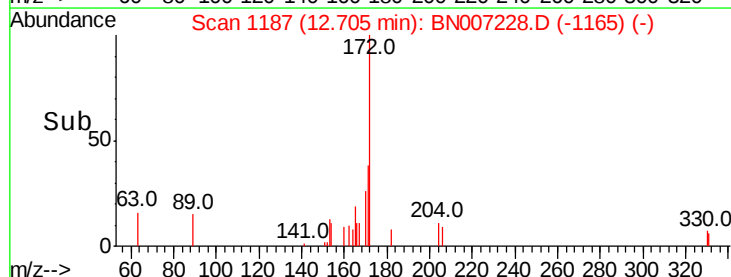
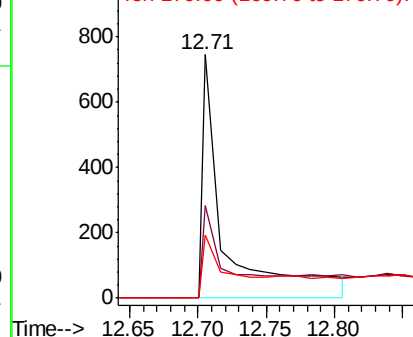


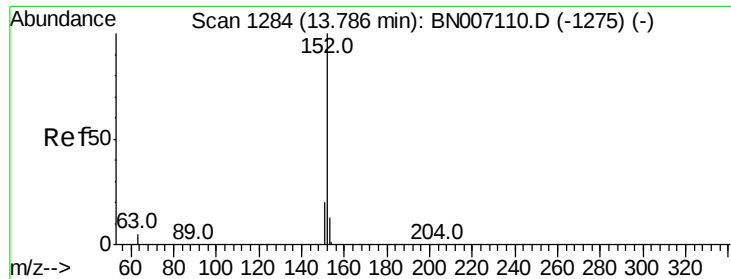
#14
 2-Fluorobiphenyl
 Concen: 0.039 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007228.D
 Acq: 16 Aug 2019 18:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.9	26.3	39.5
170	26.0	17.0	25.4



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





#15

Acenaphthylene

Concen: 0.222 ng

RT: 13.78 min Scan# 1283

Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

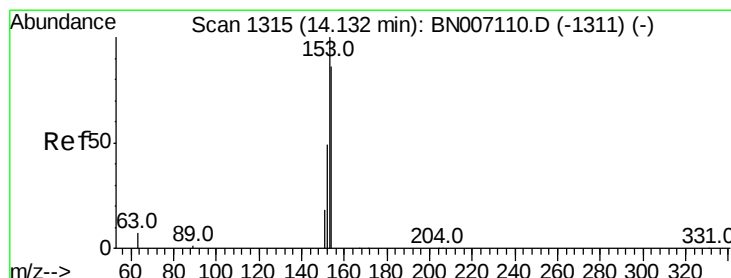
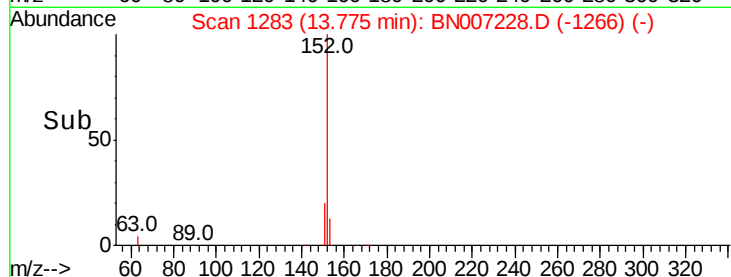
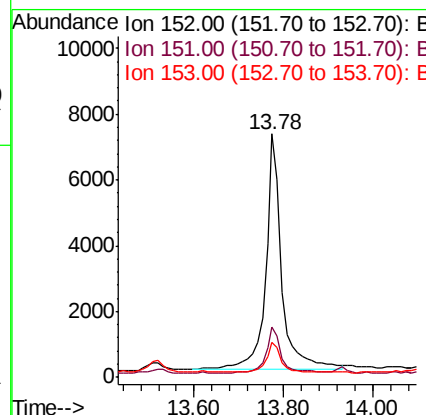
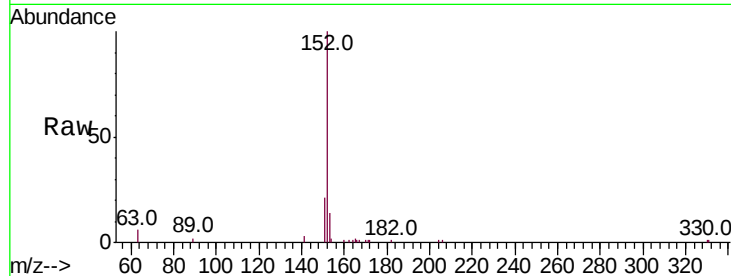
Instrument :

BNA_N

ClientSampled :

Tot Ion:	152	Resp:	18350
Ion Ratio	Lower	Upper	
152	100		
151	18.7	15.8	23.6
153	11.5	10.4	15.6

Manual Integrations
APPROVED



#16

Acenaphthene

Concen: 0.030 ng

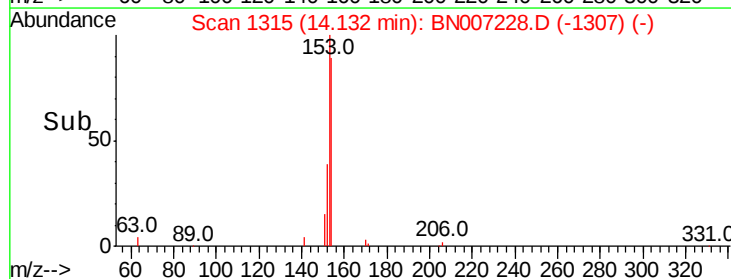
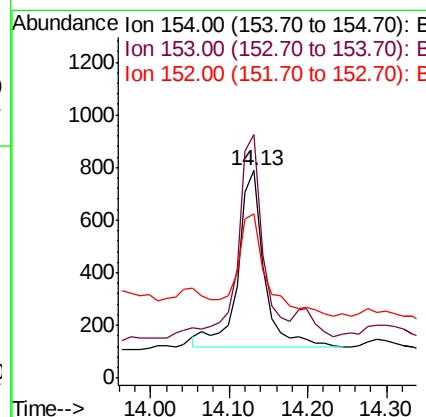
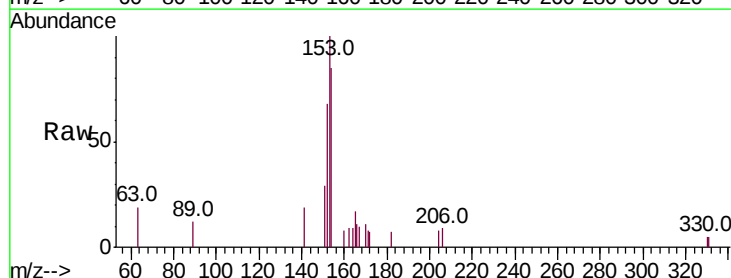
RT: 14.13 min Scan# 1315

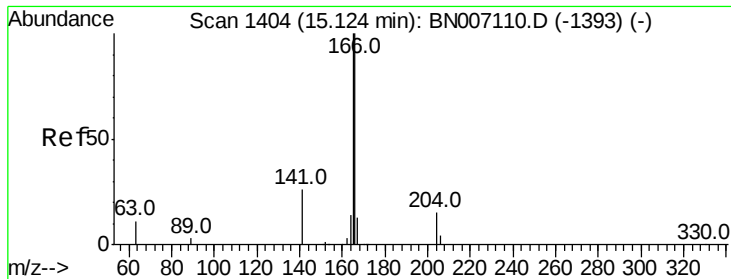
Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

Tgt Ion:	154	Resp:	1568
Ion Ratio	Lower	Upper	
154	100		
153	97.9	89.5	134.3
152	65.9	44.8	67.2



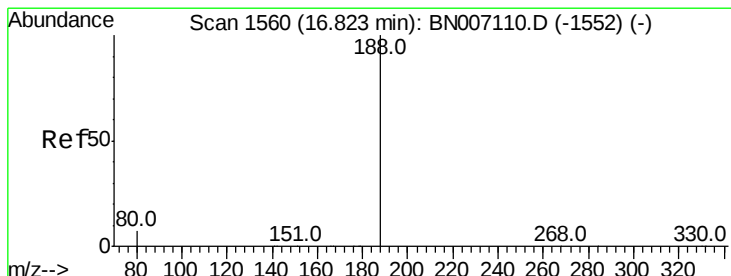
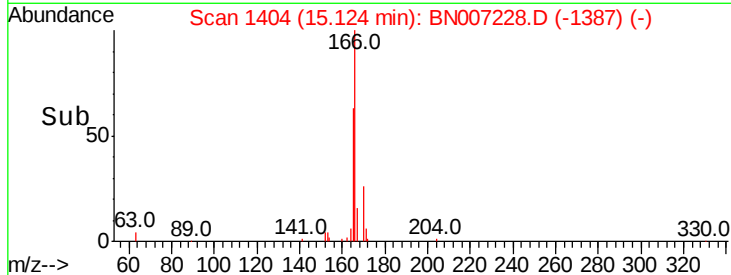
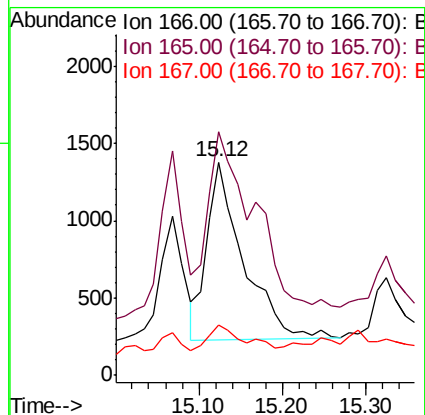
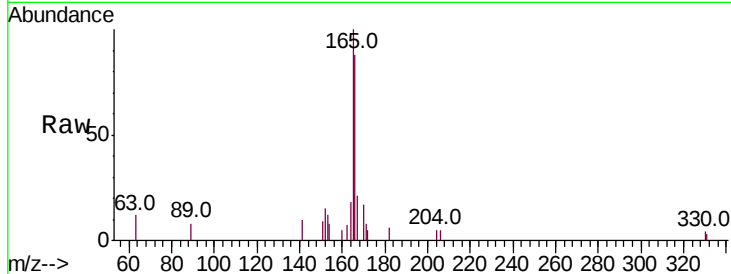


#17
 Fluorene
 Concen: 0.044 ng
 RT: 15.12 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BN007228.D
 Acq: 16 Aug 2019 18:12

Instrument :
 BNA_N
 ClientSampleId :

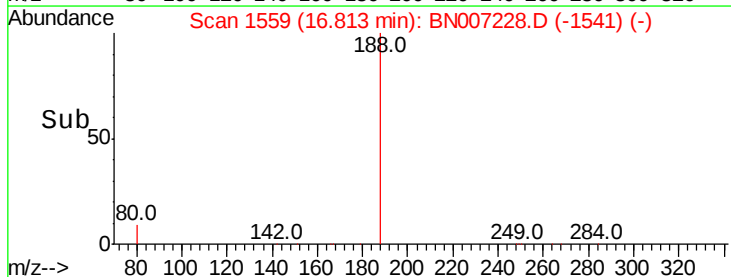
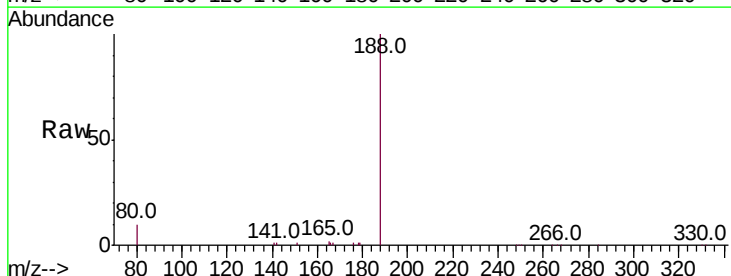
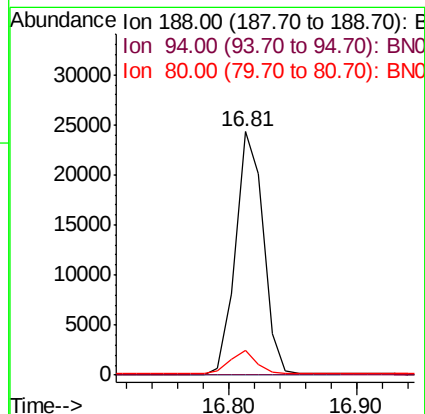
Tot Ion	Ratio	Lower	Upper
166	100		
165	128.6	77.9	116.9#
167	13.1	10.9	16.3

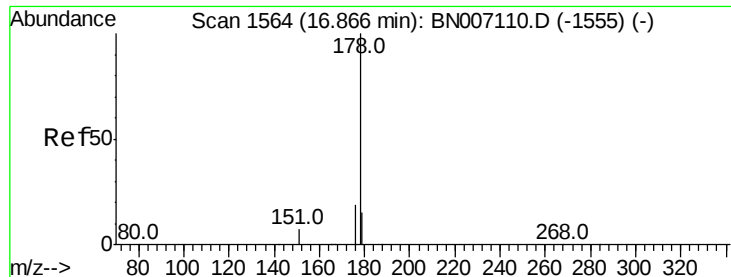
Manual Integrations
 APPROVED



#18
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.81 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: BN007228.D
 Acq: 16 Aug 2019 18:12

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.0	7.8	11.6





#22

Phenanthrene

Concen: 0.271 ng

RT: 16.86 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

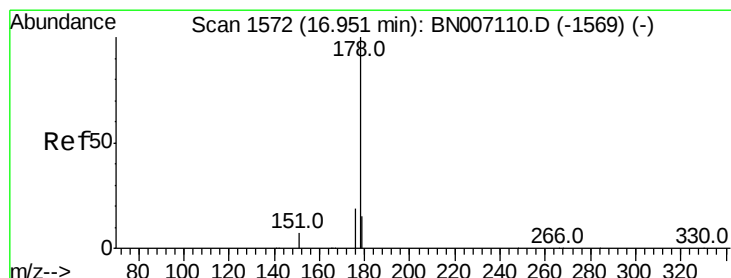
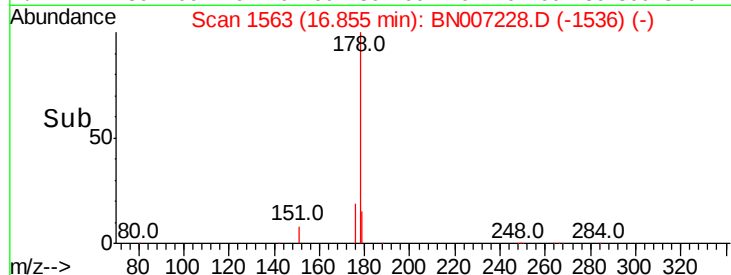
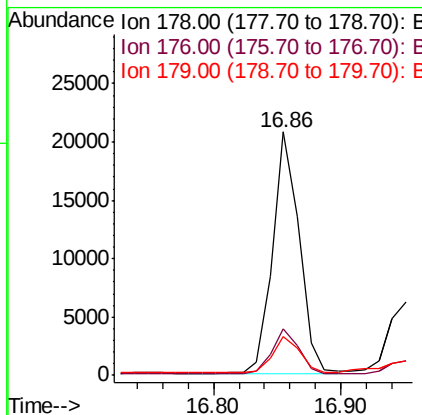
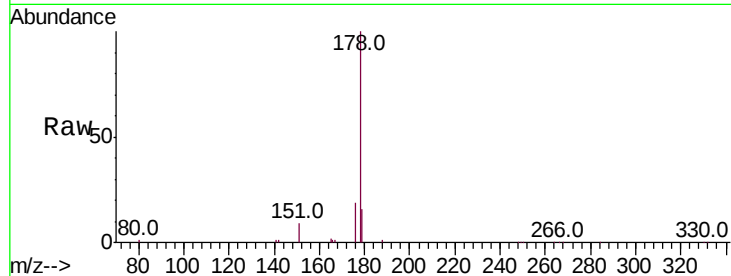
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	178	Resp:	29731
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.2	22.8
179	16.0	12.3	18.5

Manual Integrations
APPROVED



#23

Anthracene

Concen: 0.091 ng

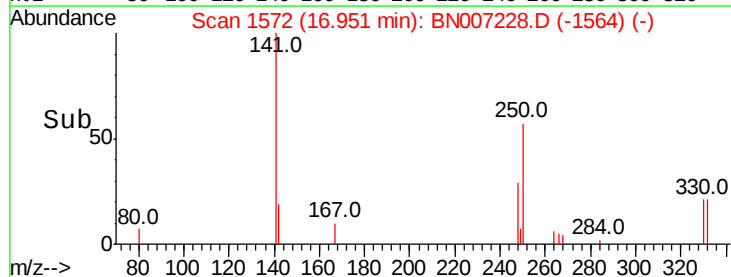
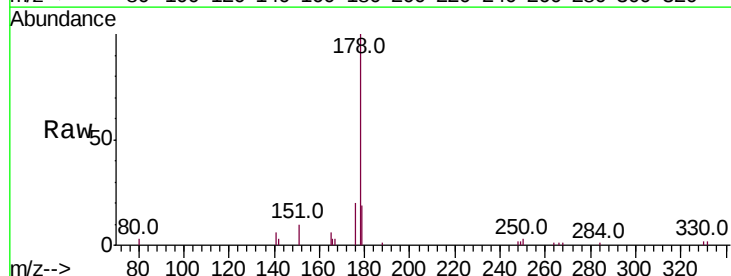
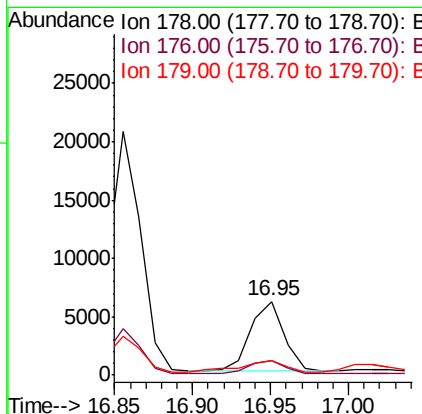
RT: 16.95 min Scan# 1572

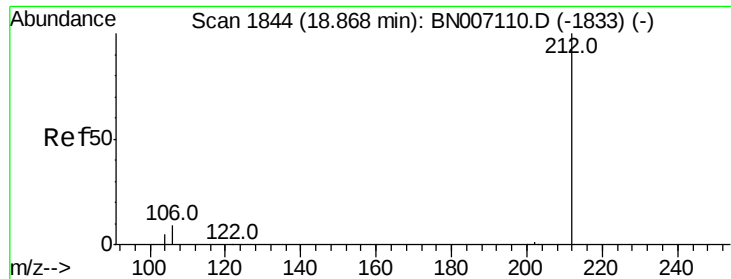
Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

Tgt Ion:	178	Resp:	9099
Ion Ratio	Lower	Upper	
178	100		
176	18.8	14.6	21.8
179	19.6	12.5	18.7#





#24

Fluoranthene-d10

Concen: 0.175 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

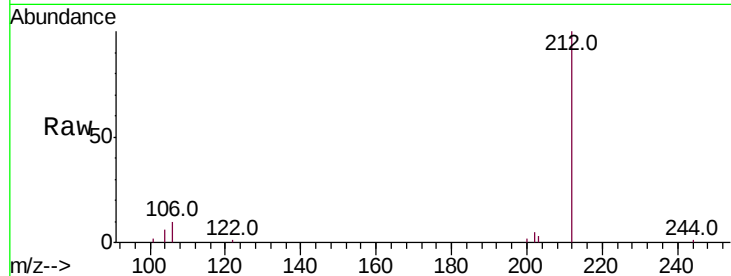
Instrument :

BNA_N

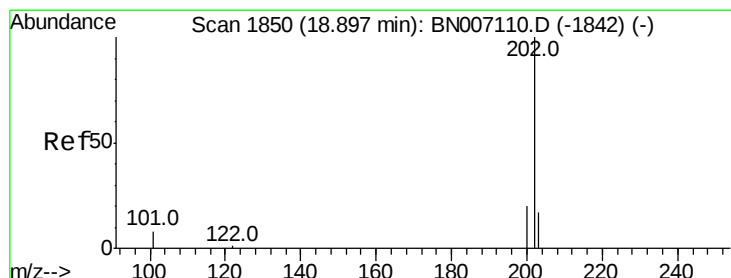
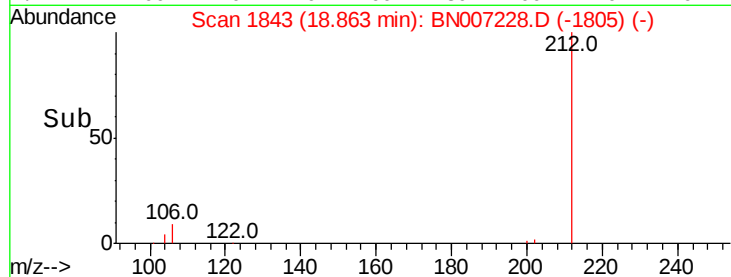
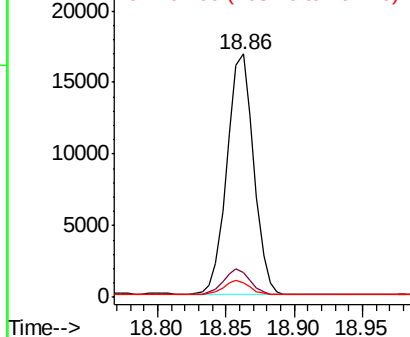
ClientSampleId :

Tot Ion:	212	Resp:	22706
Ion Ratio	Lower	Upper	
212	100		
106	10.5	8.2	12.2
104	6.3	4.5	6.7

Manual Integrations
APPROVED



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



#25

Fluoranthene

Concen: 0.852 ng

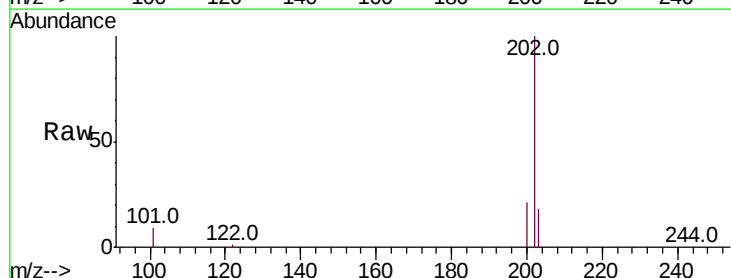
RT: 18.89 min Scan# 1848

Delta R.T. -0.02 min

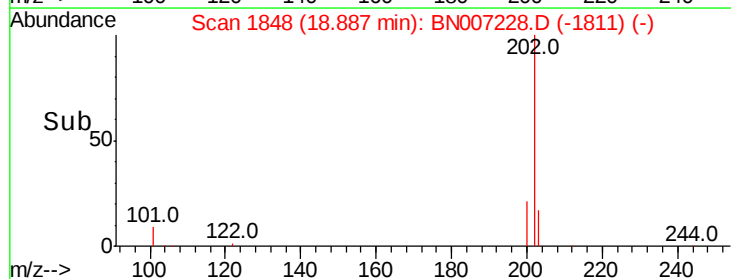
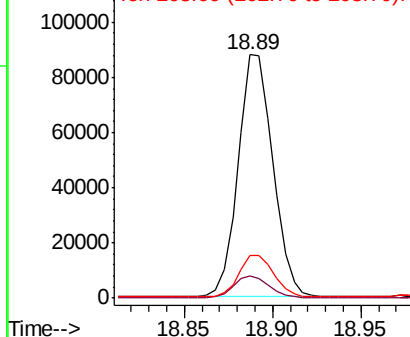
Lab File: BN007228.D

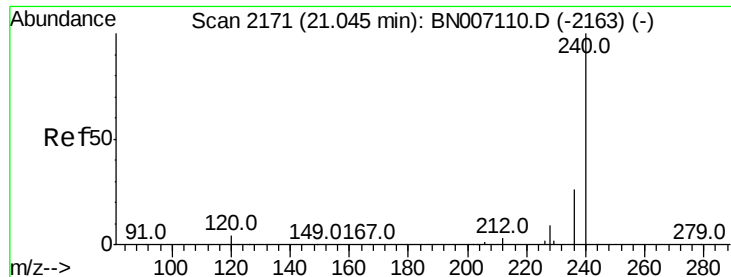
Acq: 16 Aug 2019 18:12

Tgt Ion:	202	Resp:	119673
Ion Ratio	Lower	Upper	
202	100		
101	8.8	7.0	10.4
203	17.4	13.8	20.8



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



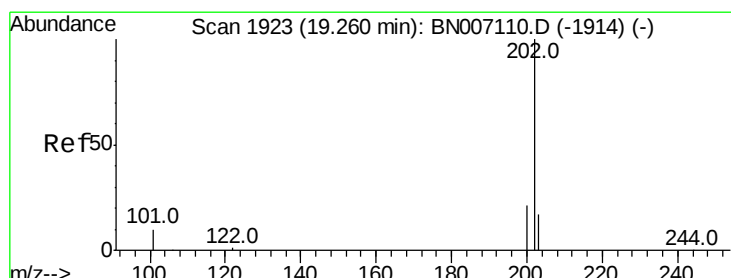
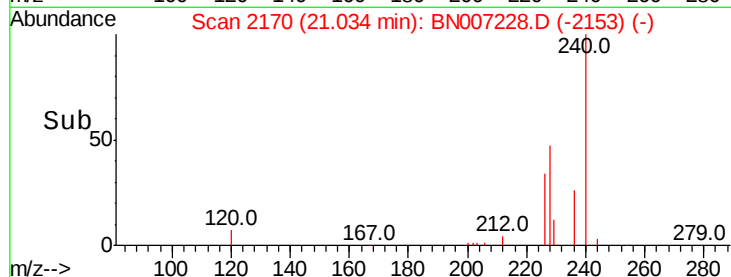
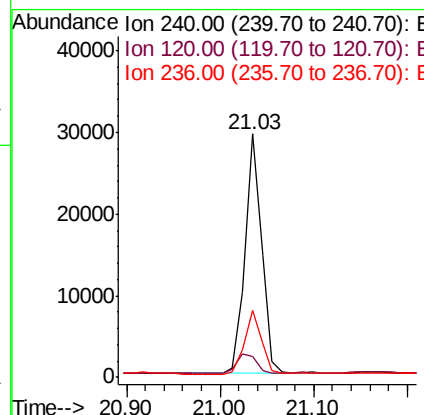
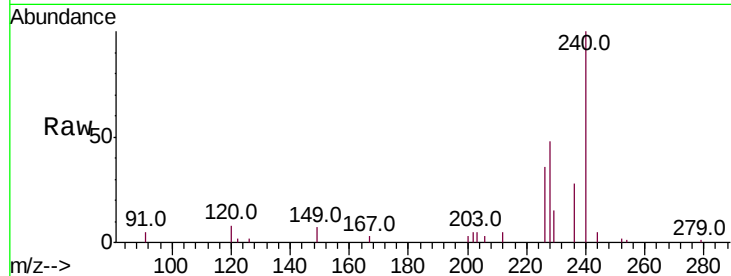


#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.03 min Scan# 2170
Delta R.T. -0.02 min
Lab File: BN007228.D
Acq: 16 Aug 2019 18:12

Instrument :
BNA_N
ClientSampleId :

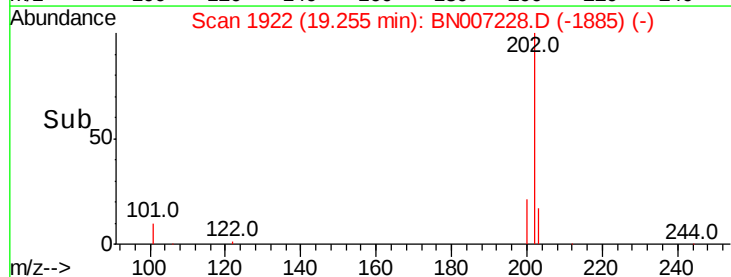
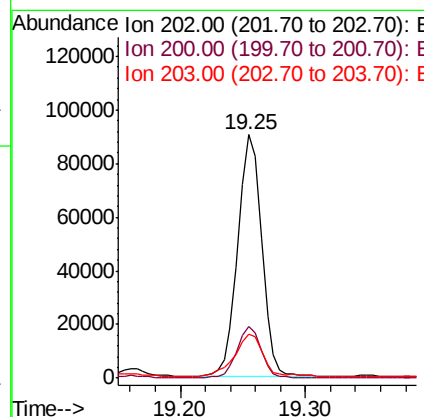
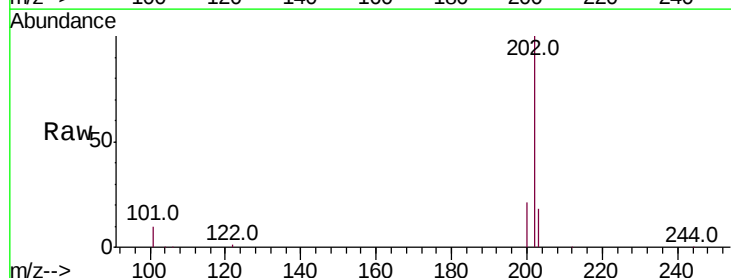
Tot Ion	Ratio	Lower	Upper
240	100		
120	8.5	4.0	6.0#
236	27.5	21.3	31.9

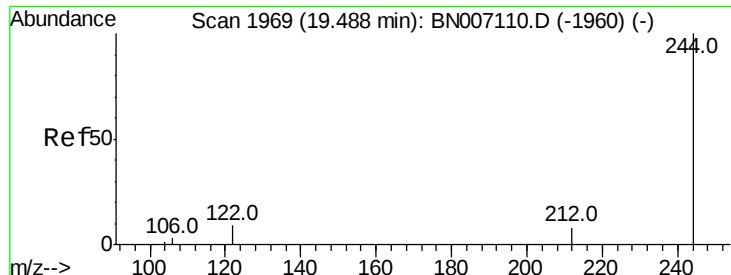
Manual Integrations
APPROVED



#27
Pyrene
Concen: 0.938 ng
RT: 19.25 min Scan# 1922
Delta R.T. -0.02 min
Lab File: BN007228.D
Acq: 16 Aug 2019 18:12

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.6	24.8
203	21.0	14.0	21.0





#28

Terphenyl-d14

Concen: 0.161 ng

RT: 19.48 min Scan# 1967

Delta R.T. -0.02 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

Instrument :

BNA_N

ClientSampleId :

Tot Ion:244 Resp: 15927

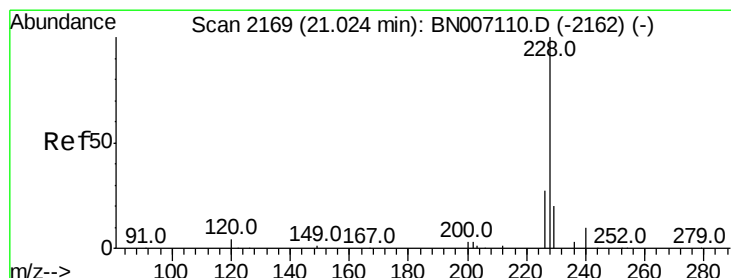
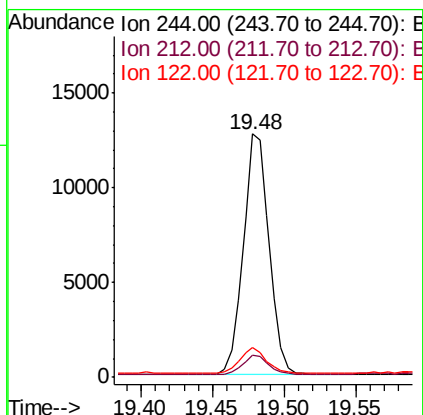
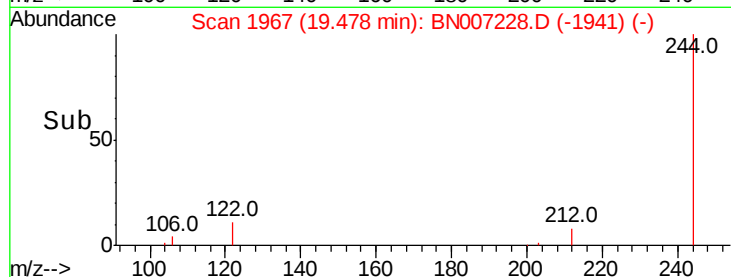
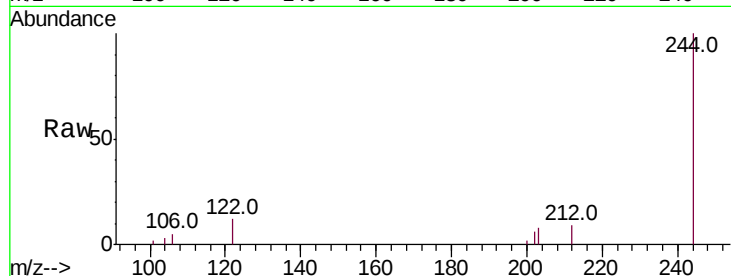
Ion Ratio Lower Upper

244 100

212 8.9 6.2 9.2

122 12.2 7.4 11.2#

Manual Integrations
APPROVED



#29

Benzo(a)anthracene

Concen: 0.674 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

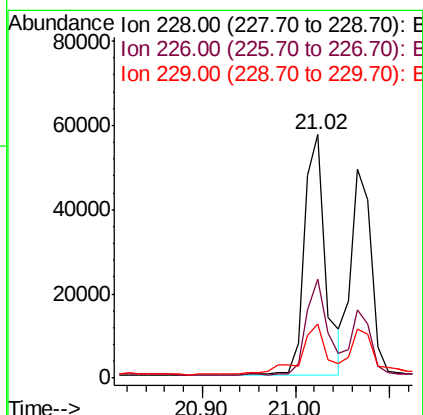
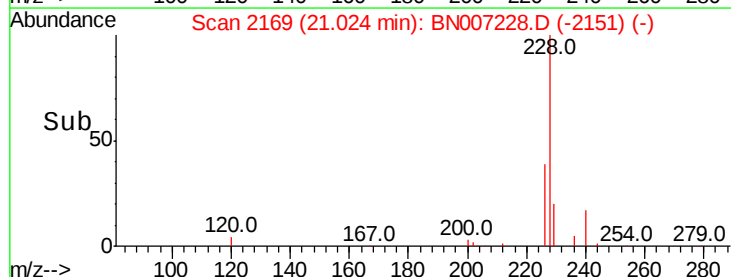
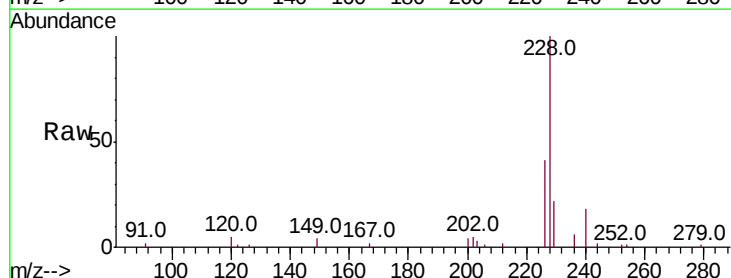
Tgt Ion:228 Resp: 89280

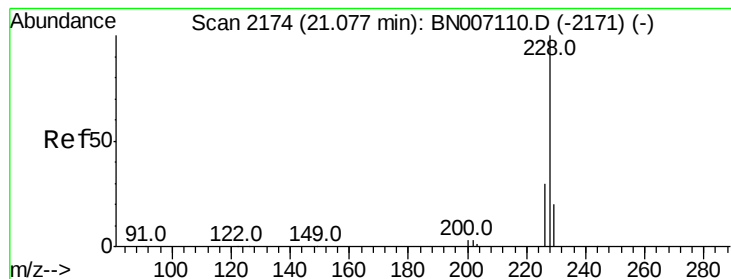
Ion Ratio Lower Upper

228 100

226 40.6 21.8 32.6#

229 22.2 15.6 23.4





#30

Chrysene

Concen: 0.566 ng

RT: 21.07 min Scan# 2173

Delta R.T. -0.02 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

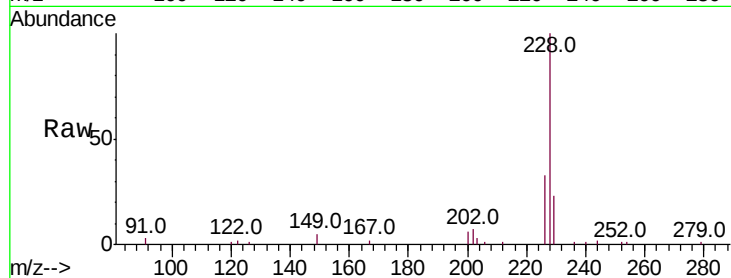
Instrument :

BNA_N

ClientSampled :

Tot Ion:	228	Resp:	72855
Ion Ratio	Lower	Upper	
228	100		
226	32.6	23.8	35.6
229	23.1	15.7	23.5

Manual Integrations
APPROVED

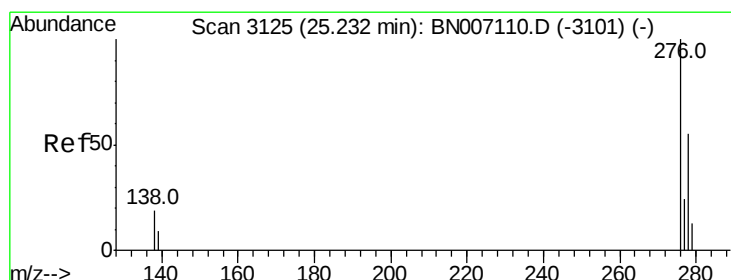
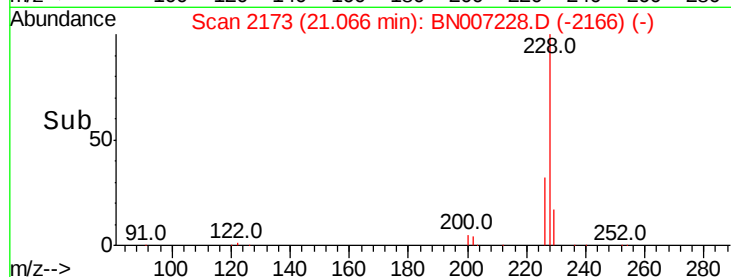
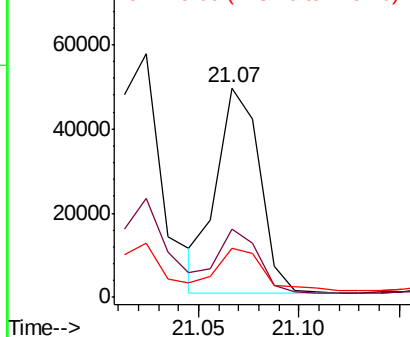


Abundance

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

Indeno(1,2,3-cd)pyrene

Concen: 0.372 ng

RT: 25.22 min Scan# 3122

Delta R.T. -0.03 min

Lab File: BN007228.D

Acq: 16 Aug 2019 18:12

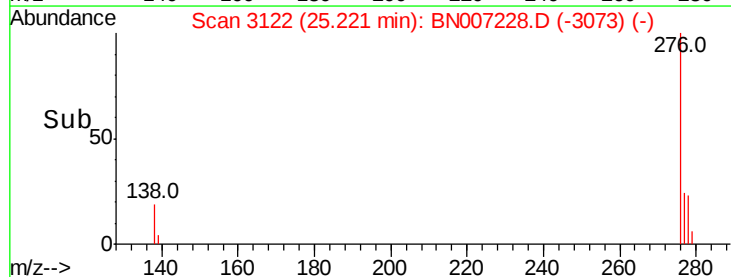
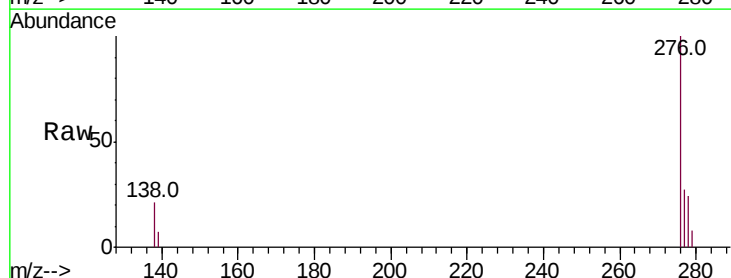
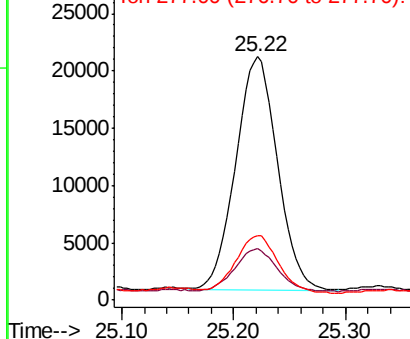
Tgt Ion:	276	Resp:	52702
Ion Ratio	Lower	Upper	
276	100		
138	18.9	16.0	24.0
277	25.2	19.9	29.9

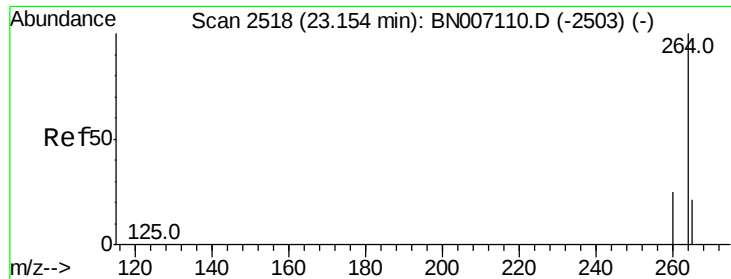
Abundance

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



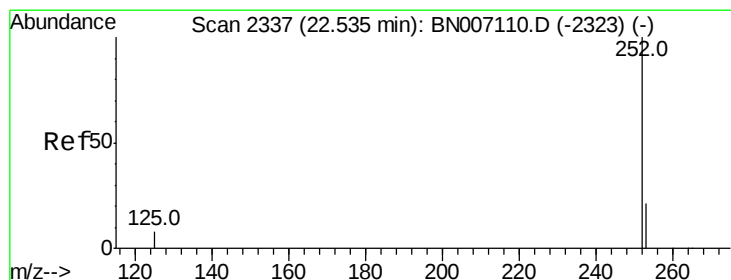
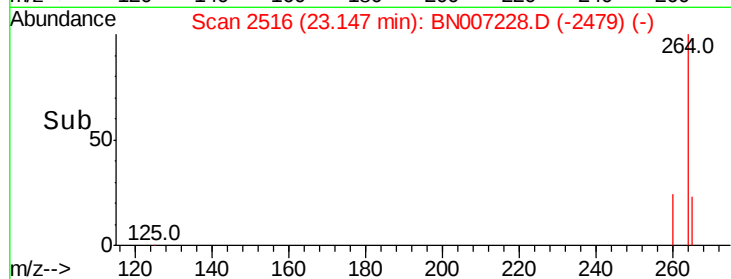
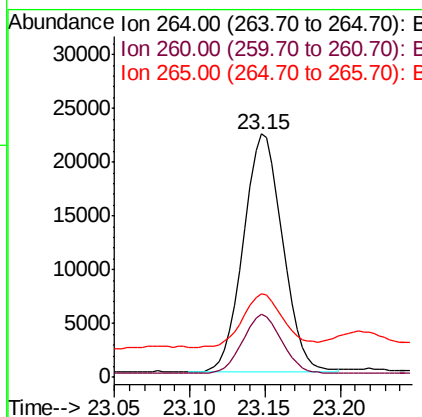
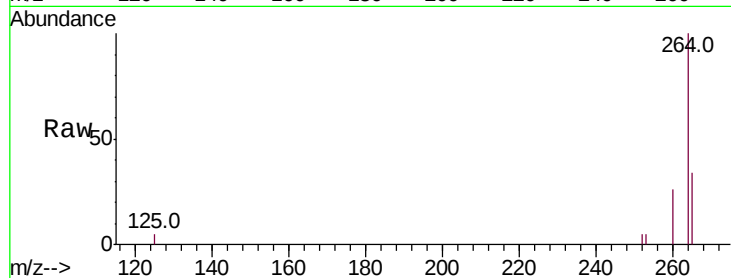


#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.15 min Scan# 2516
Delta R.T. -0.02 min
Lab File: BN007228.D
Acq: 16 Aug 2019 18:12

Instrument :
BNA_N
ClientSampleId :

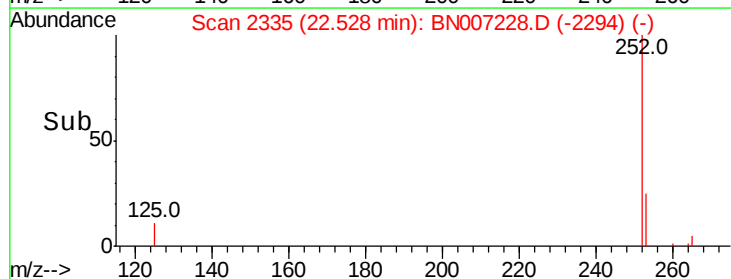
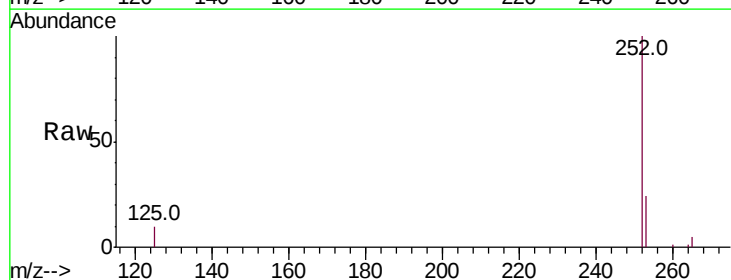
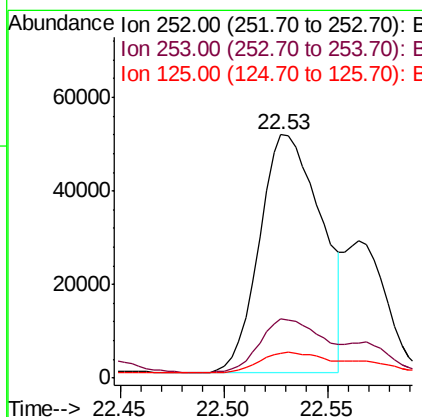
Tot Ion	Ratio	Lower	Upper
264	100		
260	25.7	19.8	29.8
265	34.3	26.2	39.4

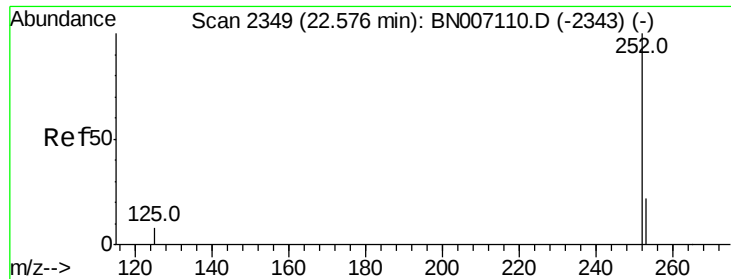
Manual Integrations
APPROVED



#33
Benzo(b)fluoranthene
Concen: 0.781 ng
RT: 22.53 min Scan# 2335
Delta R.T. -0.02 min
Lab File: BN007228.D
Acq: 16 Aug 2019 18:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.2	27.2
125	10.3	7.4	11.0



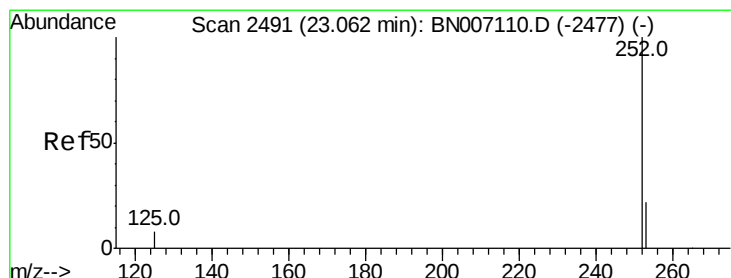
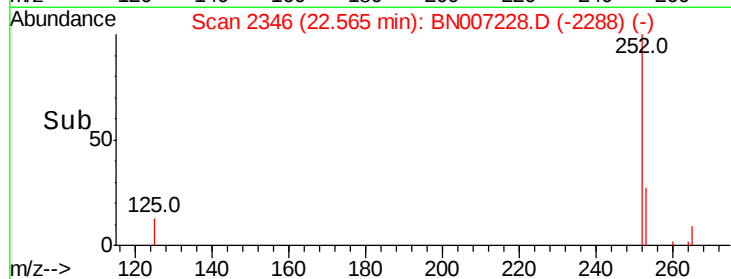
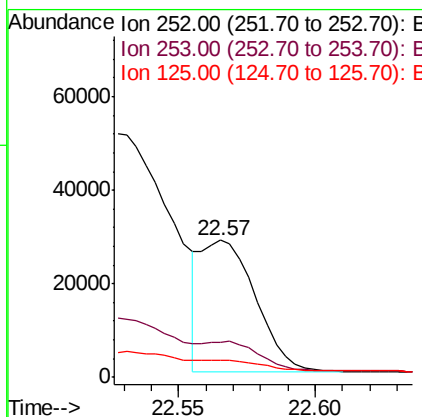
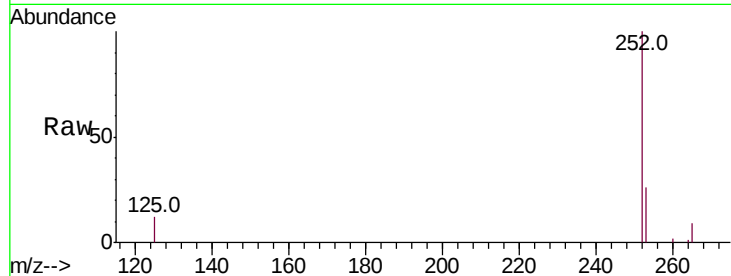


#34
Benzo(k)fluoranthene
Concen: 0.291 ng m
RT: 22.57 min Scan# 2346
Delta R.T. -0.02 min
Lab File: BN007228.D
Acq: 16 Aug 2019 18:12

Instrument :
BNA_N
ClientSampleId :

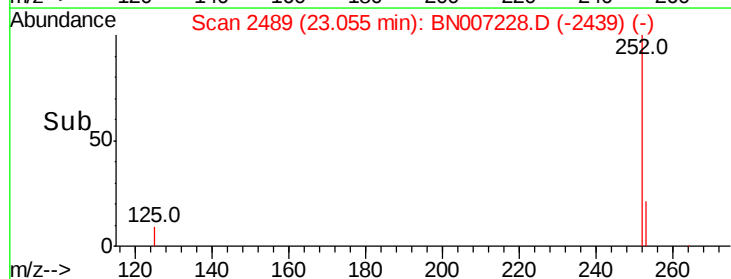
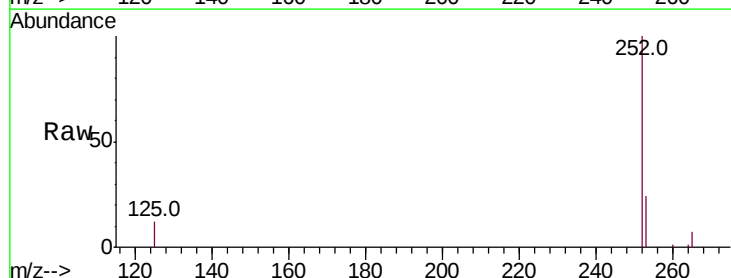
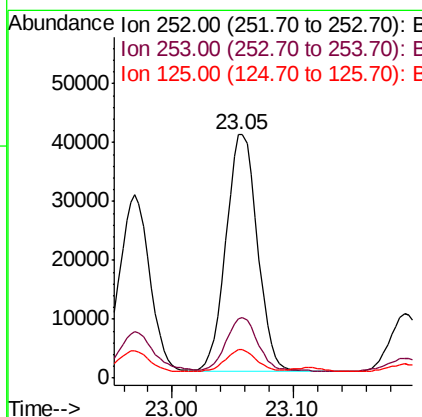
Tot Ion	Ratio	Lower	Upper
252	100		
253	26.0	18.1	27.1
125	12.1	7.4	11.0

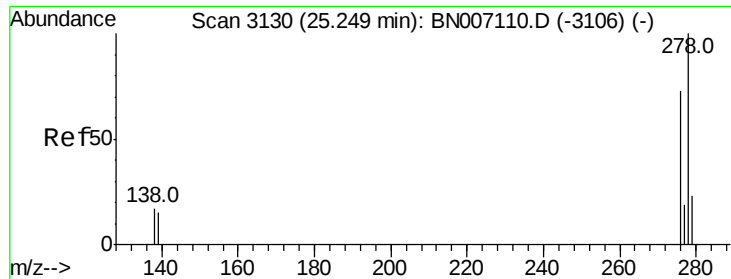
Manual Integrations
APPROVED



#35
Benzo(a)pyrene
Concen: 0.593 ng
RT: 23.05 min Scan# 2489
Delta R.T. -0.03 min
Lab File: BN007228.D
Acq: 16 Aug 2019 18:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.5	27.7
125	11.6	8.2	12.4



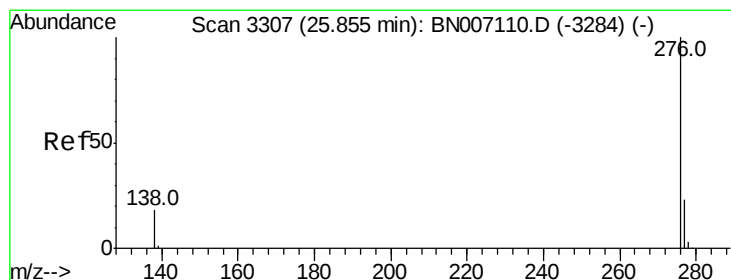
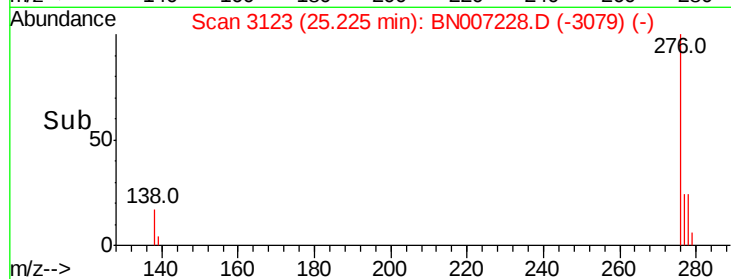
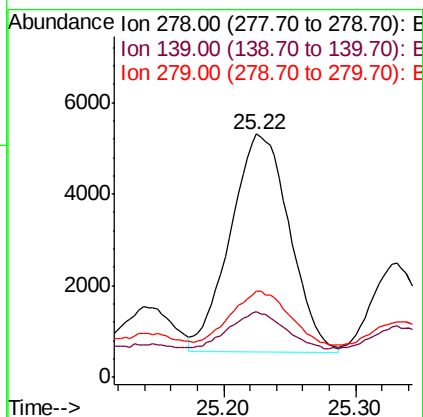
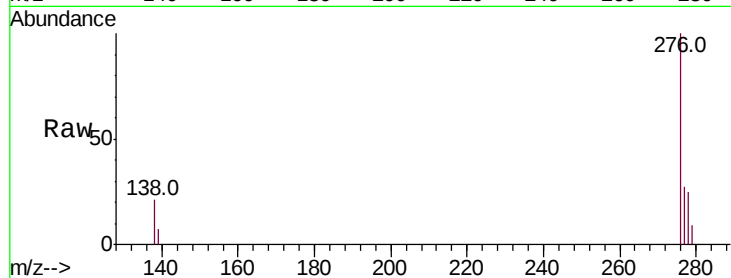


#36
Dibenzo(a,h)anthracene
Concen: 0.121 ng
RT: 25.22 min Scan# 3123
Delta R.T. -0.05 min
Lab File: BN007228.D
Acq: 16 Aug 2019 18:12

Instrument :
BNA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.8	11.3	16.9#
279	35.4	19.3	28.9#

Manual Integrations
APPROVED



#37
Benzo(g,h,i)perylene
Concen: 0.381 ng
RT: 25.85 min Scan# 3306
Delta R.T. -0.03 min
Lab File: BN007228.D
Acq: 16 Aug 2019 18:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	19.8	29.8
138	21.1	14.6	22.0

