

Data File : BN007205.D
Acq On : 15 Aug 2019 20:21
Operator : HP/JU
Sample : K4173-12DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EXT-032-SW176-073119DL

Manual Integrations
APPROVED

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8/16/2019 6:11:43 PM

Quant Time: Aug 16 07:26:05 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	7.43	152	7442	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	28458	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	16157	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	38947	0.40	ng	0.00
26) Chrysene-d12	21.05	240	39204	0.40	ng	-0.01
32) Perylene-d12	23.16	264	43300	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	952	0.05	ng	0.00
4) Phenol-d6	6.61	99	1302	0.06	ng	0.00
7) Nitrobenzene-d5	8.55	82	1060	0.05	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	2280	0.04	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	332	0.04	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	726	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	6875	0.05	ng	-0.01
28) Terphenyl-d14	19.48	244	4819	0.05	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.23	128	4943	0.062	ng	# 94
11) 2-Methylnaphthalene	11.86	142	3164	0.056	ng	# 93
15) Acenaphthylene	13.79	152	53143	0.629	ng	99
16) Acenaphthene	14.13	154	5817	0.108	ng	96
17) Fluorene	15.12	166	11523	0.142	ng	84
22) Phenanthrene	16.86	178	252037	2.159	ng	100
23) Anthracene	16.95	178	39180	0.367	ng	98
25) Fluoranthene	18.89	202	447685	2.998	ng	99
27) Pyrene	19.26	202	664470	4.833	ng	98
29) Benzo(a)anthracene	21.02	228	262224	1.829	ng	92
30) Chrysene	21.08	228	355664	2.553	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	152231	0.992	ng	99
33) Benzo(b)fluoranthene	22.54	252	326811m	2.201	ng	
34) Benzo(k)fluoranthene	22.57	252	57175m	0.390	ng	
35) Benzo(a)pyrene	23.07	252	244258	1.815	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	43385	0.323	ng	# 87
37) Benzo(g,h,i)perylene	25.86	276	170081	1.231	ng	99

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

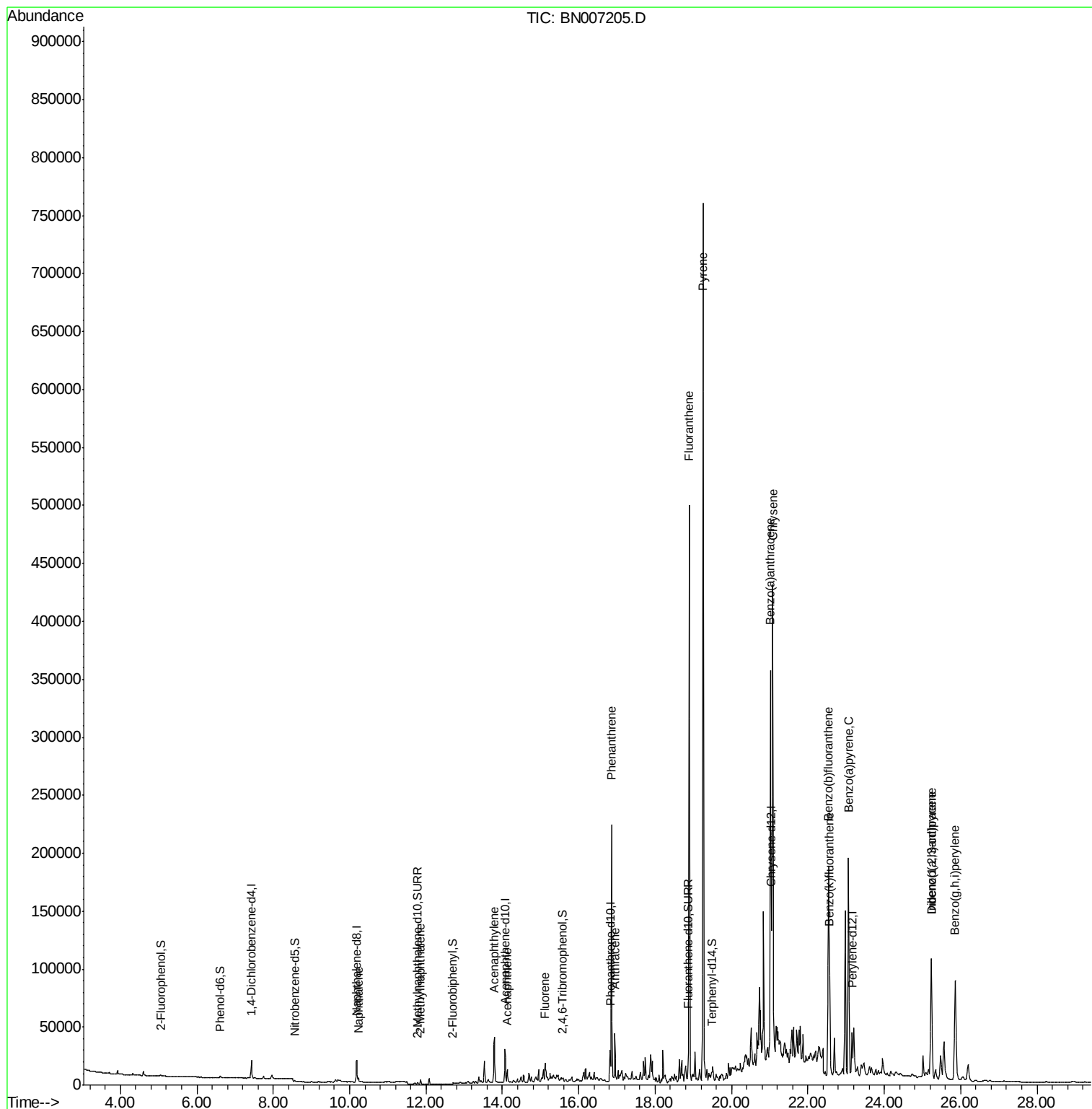
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#1

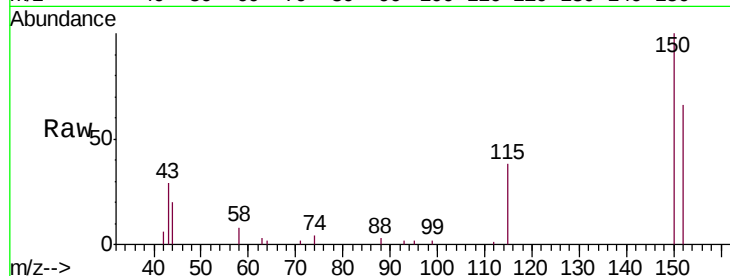
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007205.D
Acq: 15 Aug 2019 20:21

Instrument :
BNA_N
ClientSampleId :
EXT-032-SW176-073119DL

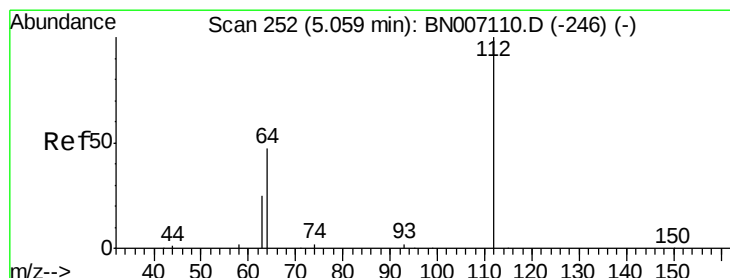
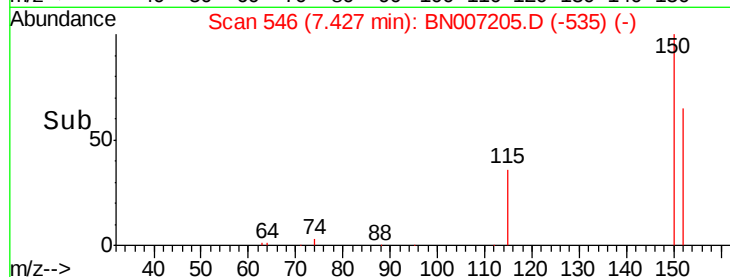
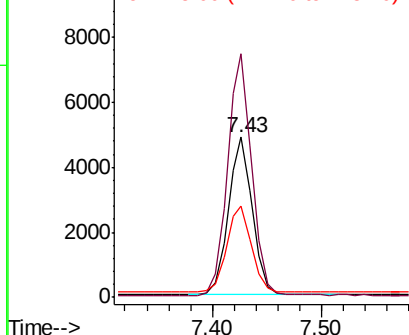
Tgt Ion	Ratio	Lower	Upper
152	100		
150	151.9	121.7	182.5
115	57.3	46.2	69.4

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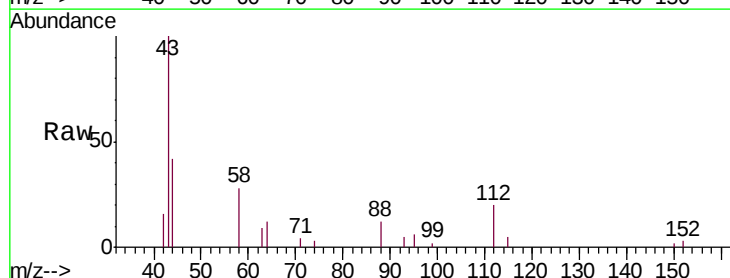
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



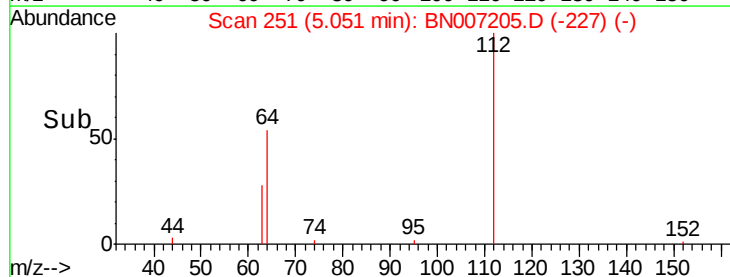
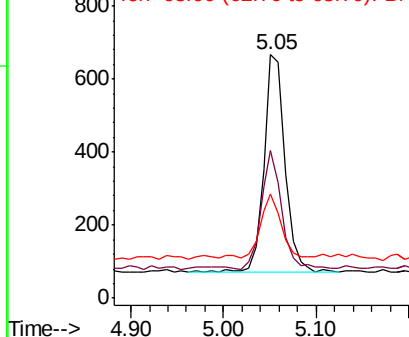
#3

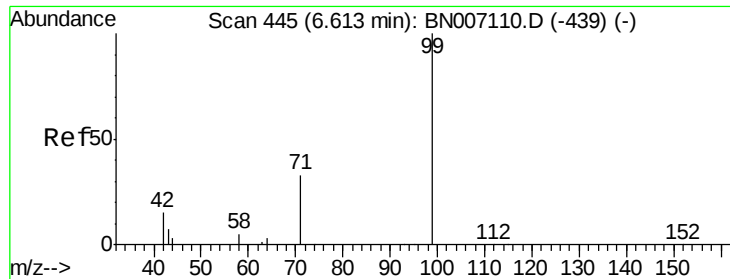
2-Fluorophenol
Concen: 0.053 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007205.D
Acq: 15 Aug 2019 20:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.4	42.6	63.8
63	28.9	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: 0.059 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Instrument :

BNA_N

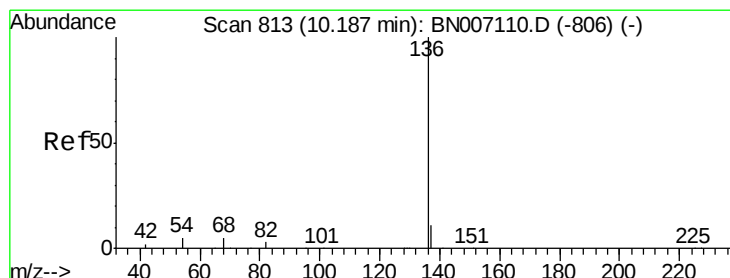
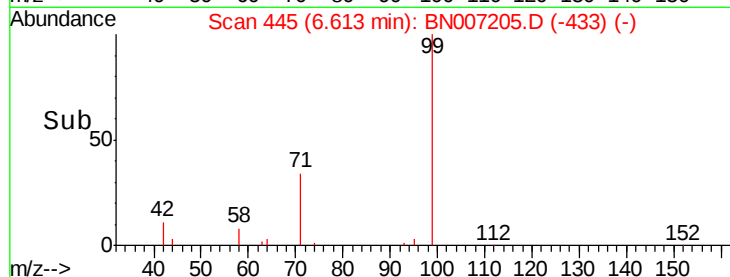
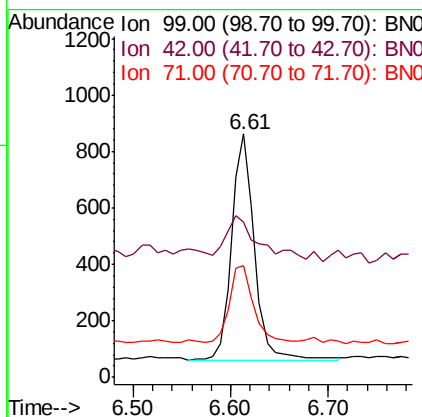
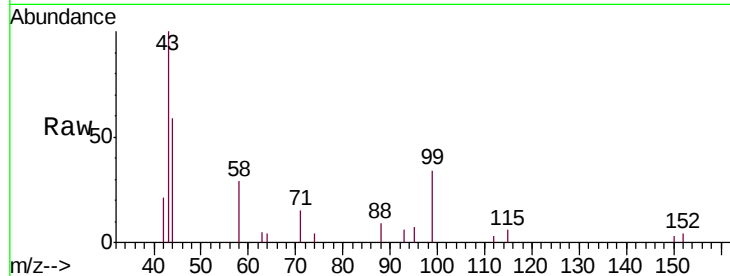
ClientSampleId :

EXT-032-SW176-073119DL

Tgt Ion:	99	Resp:	1302
Ion Ratio	Lower	Upper	
99	100		
42	26.8	15.8	23.6#
71	35.8	27.0	40.4

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#6

Naphthalene-d8

Concen: 0.400 ng

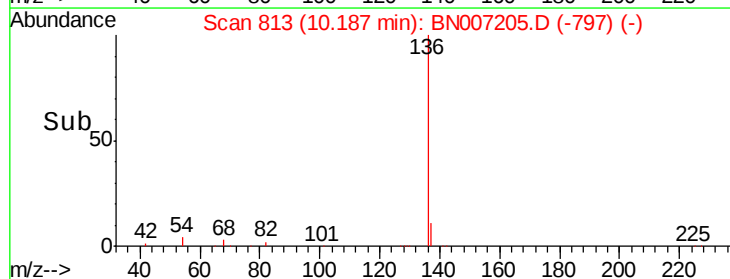
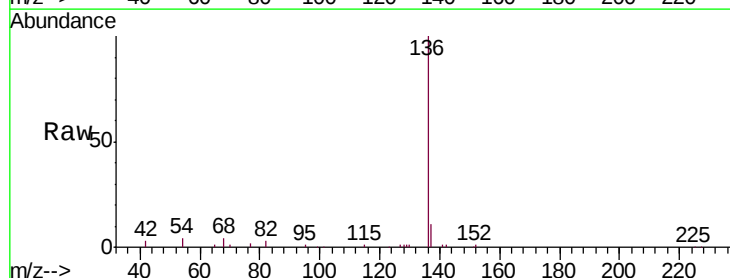
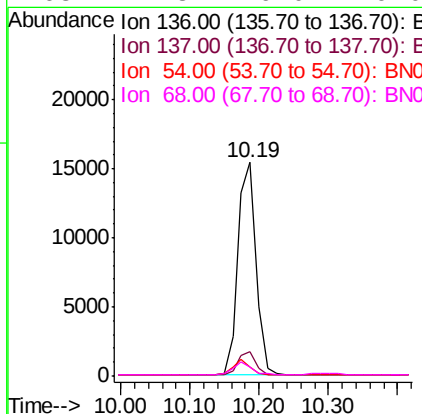
RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Tgt Ion:	136	Resp:	28458
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.4	14.0
54	4.4	6.6	9.8#
68	4.3	6.0	9.0#





#7

Nitrobenzene-d5

Concen: 0.046 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Instrument :

BNA_N

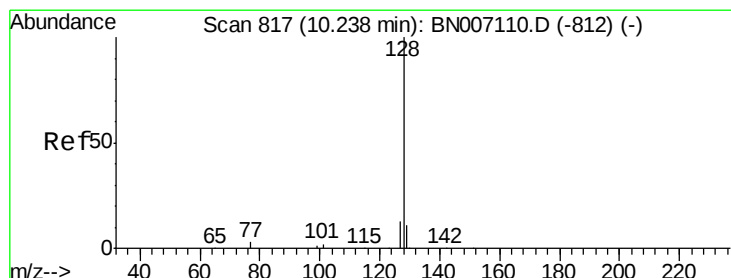
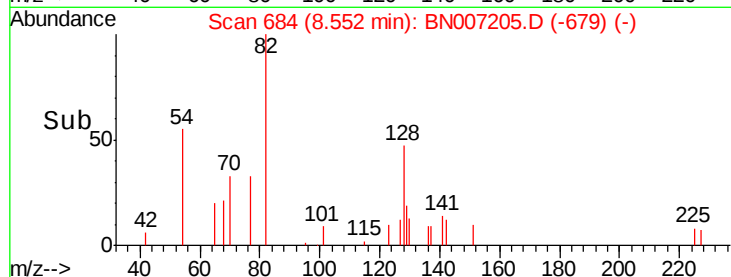
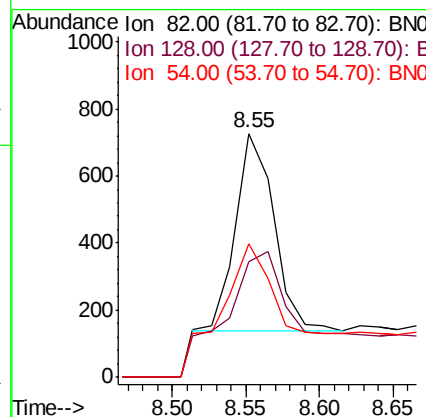
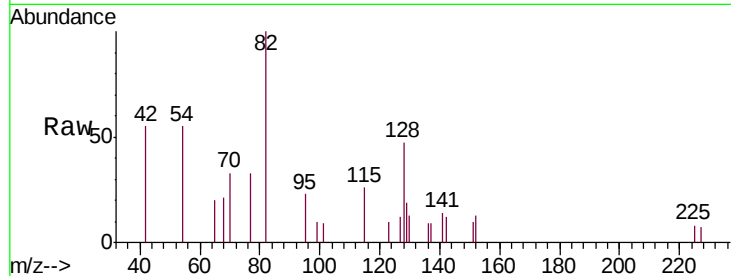
ClientSampleId :

EXT-032-SW176-073119DL

Tgt Ion:	82	Resp:	1060
Ion Ratio	Lower	Upper	
82	100		
128	47.4	34.6	51.8
54	54.5	36.2	54.4

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#8

Naphthalene

Concen: 0.062 ng

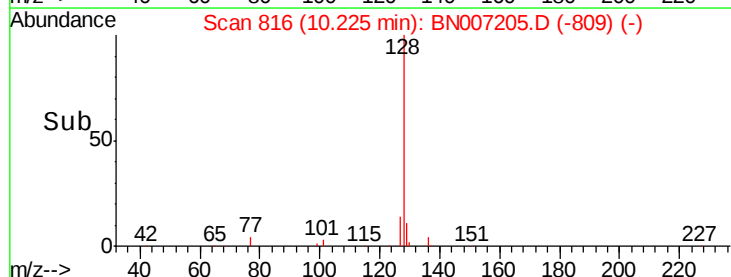
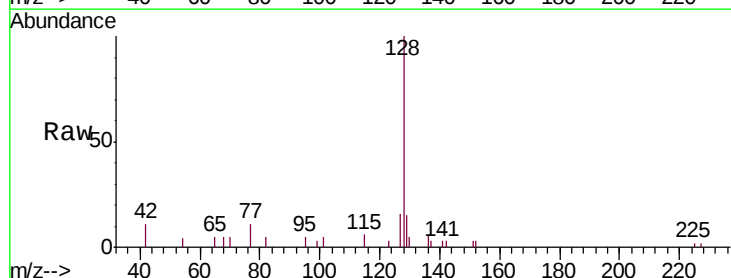
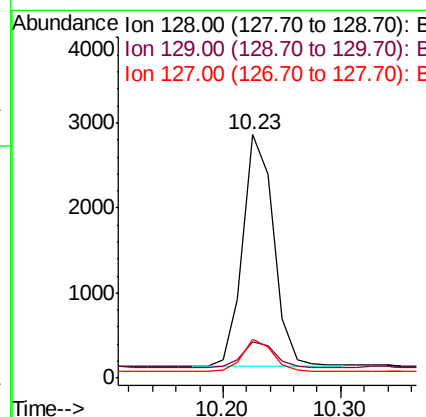
RT: 10.23 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Tgt Ion:	128	Resp:	4943
Ion Ratio	Lower	Upper	
128	100		
129	14.8	9.4	14.2
127	15.9	11.0	16.6





#10

2-Methylnaphthalene-d10

Concen: 0.043 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Instrument :

BNA_N

ClientSampleId :

EXT-032-SW176-073119DL

Tgt Ion:152 Resp: 2280

Ion Ratio Lower Upper

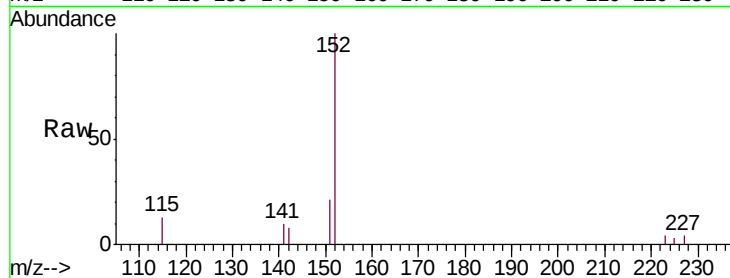
152 100

151 19.6 15.5 23.3

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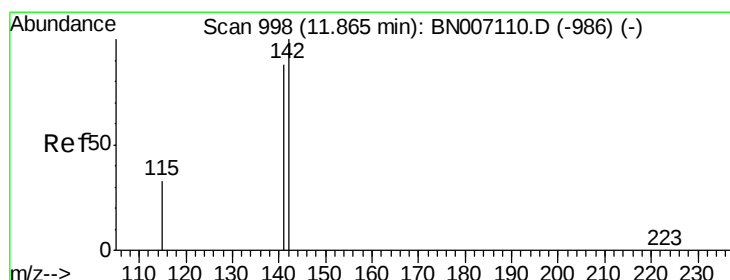
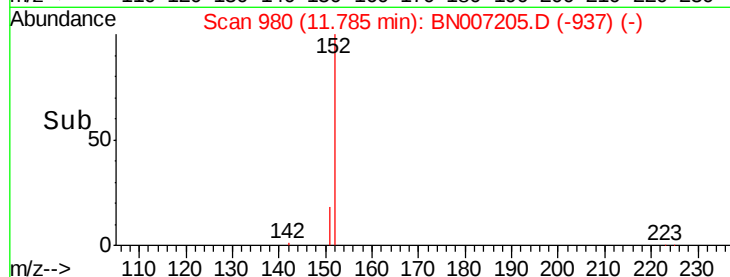
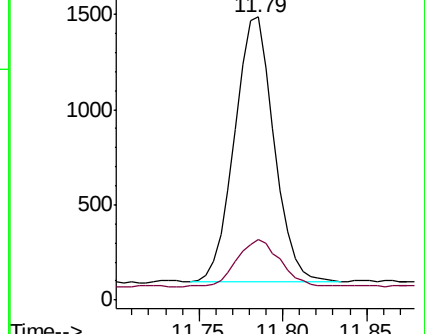
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.056 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

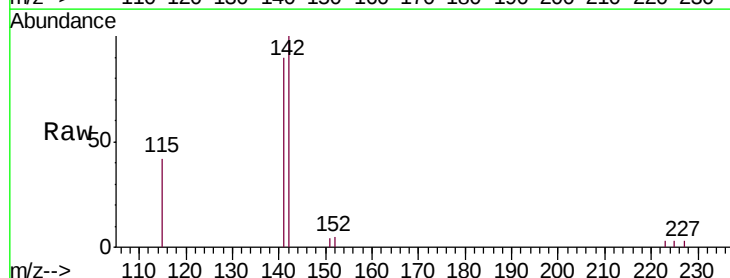
Tgt Ion:142 Resp: 3164

Ion Ratio Lower Upper

142 100

141 90.4 69.0 103.6

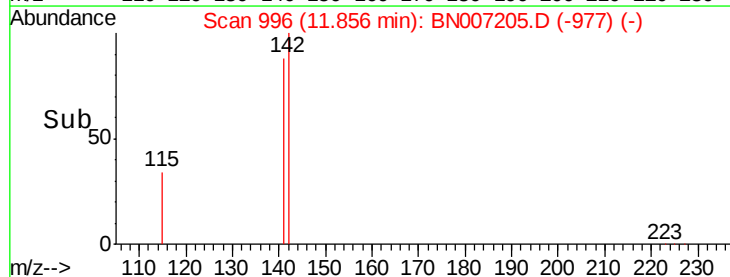
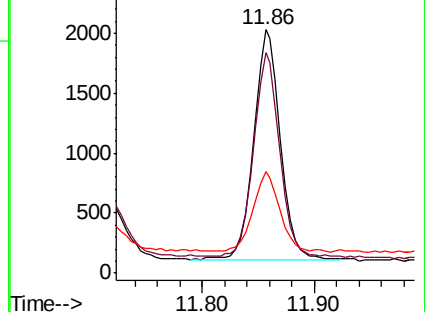
115 41.5 27.1 40.7#



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





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Instrument :

BNA_N

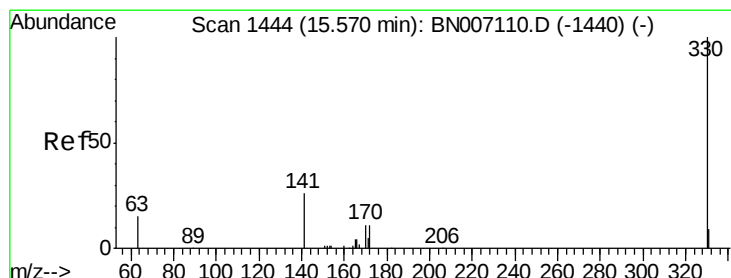
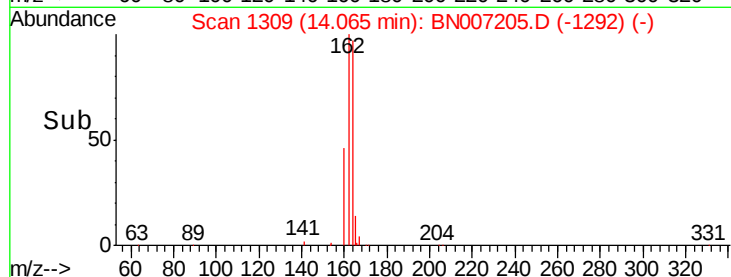
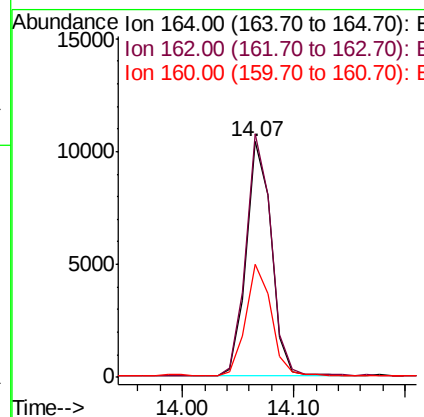
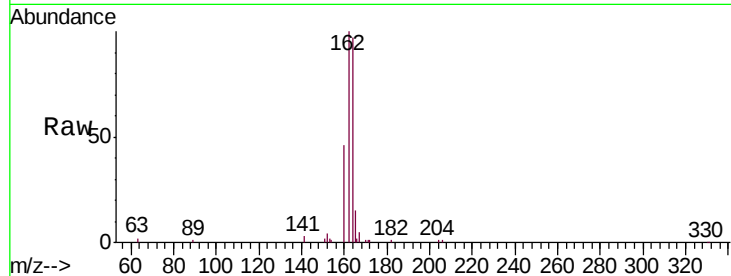
ClientSampleId :

EXT-032-SW176-073119DL

Tgt Ion:	164	Resp:	16157
Ion Ratio	Lower	Upper	
164	100		
162	103.3	82.2	123.4
160	48.0	38.3	57.5

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#13

2,4,6-Tribromophenol

Concen: 0.038 ng

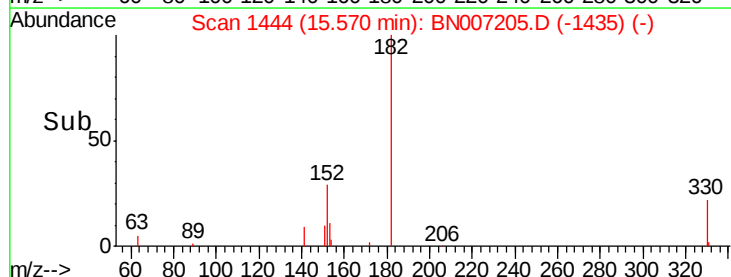
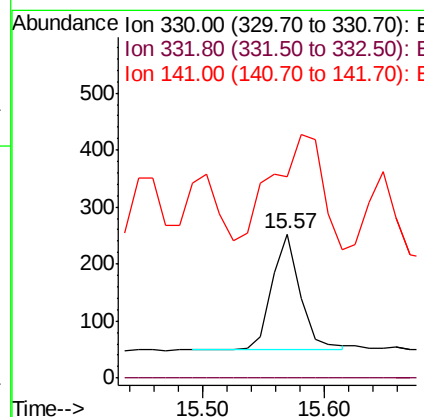
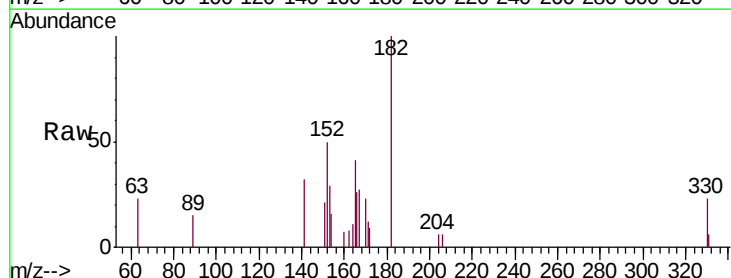
RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Tgt Ion:	330	Resp:	332
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	172.3	33.6	50.4#





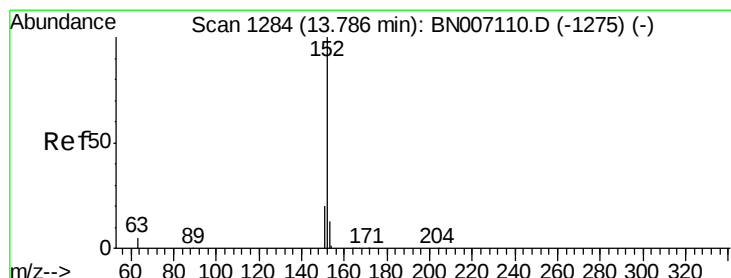
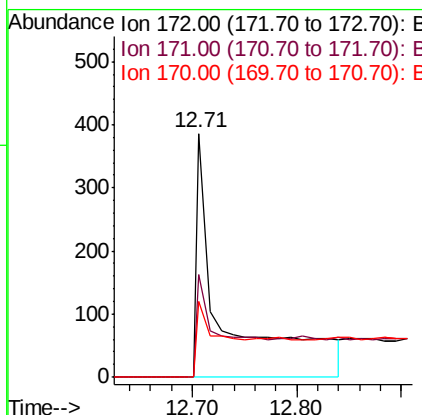
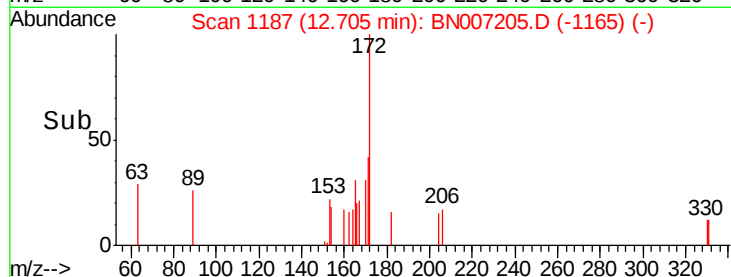
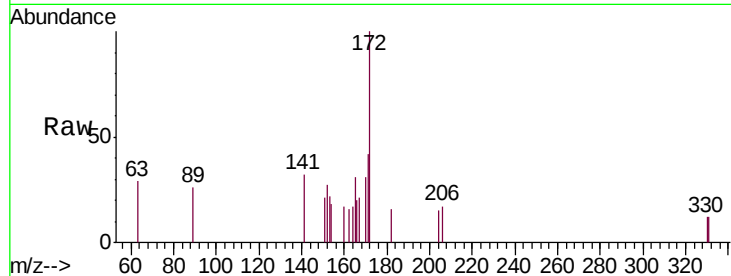
#14
2-Fluorobiphenyl
Concen: 0.031 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007205.D
Acq: 15 Aug 2019 20:21

Instrument :
BNA_N
ClientSampleId :
EXT-032-SW176-073119DL

Tgt Ion	Ratio	Lower	Upper
172	100		
171	42.2	26.3	39.5#
170	31.1	17.0	25.4#

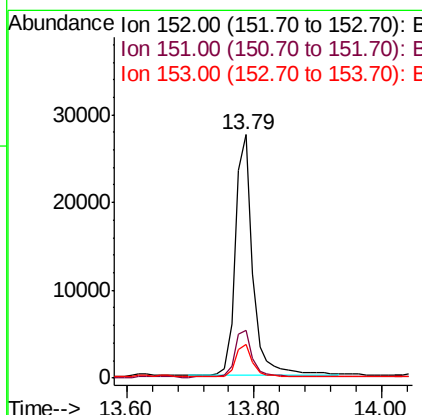
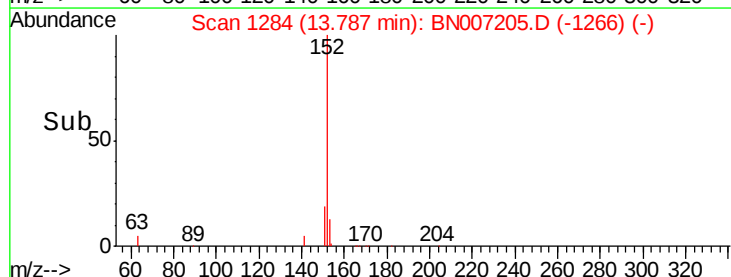
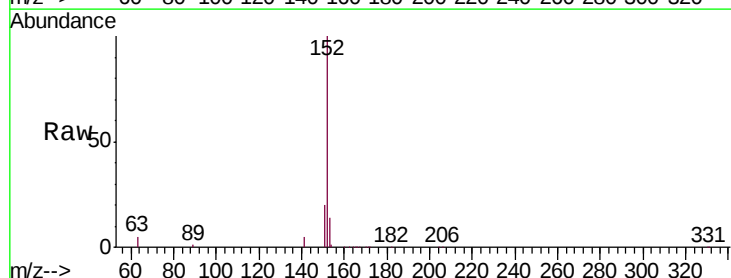
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8/16/2019 6:11:43 PM



#15
Acenaphthylene
Concen: 0.629 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007205.D
Acq: 15 Aug 2019 20:21

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.2	10.4	15.6





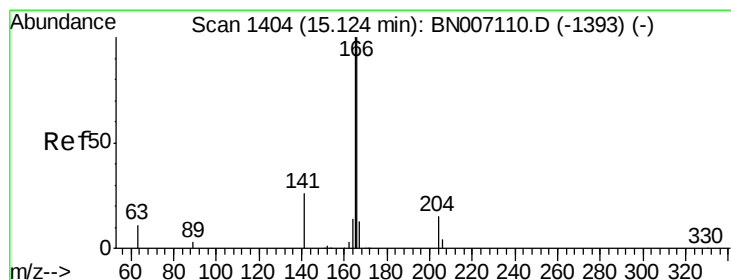
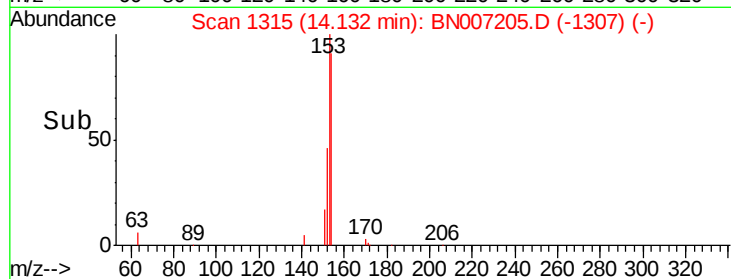
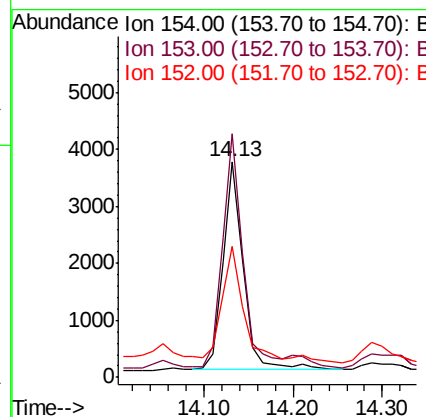
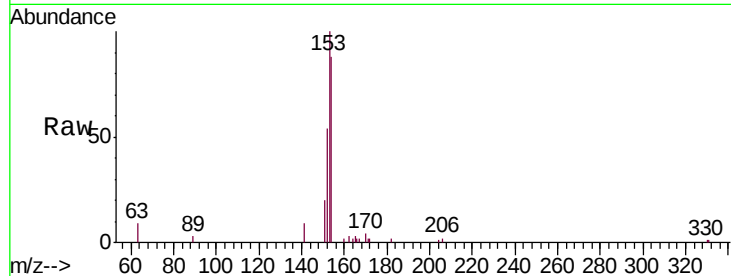
#16
Acenaphthene
Concen: 0.108 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007205.D
Acq: 15 Aug 2019 20:21

Instrument :
BNA_N
ClientSampleId :
EXT-032-SW176-073119DL

Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.5	134.3
152	63.9	44.8	67.2

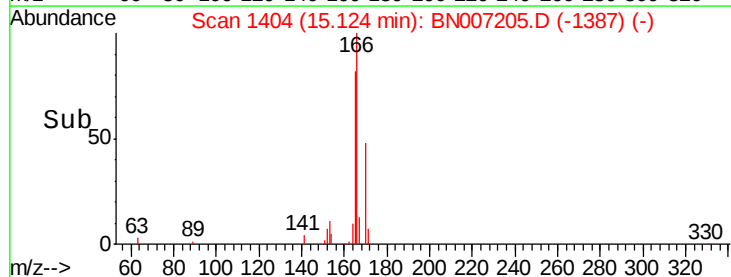
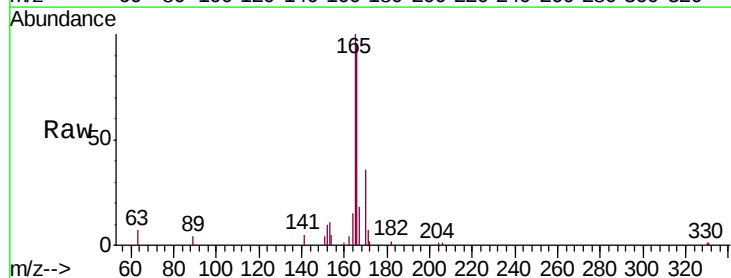
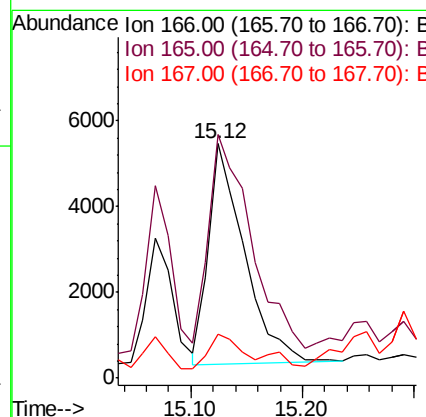
Manual Integrations
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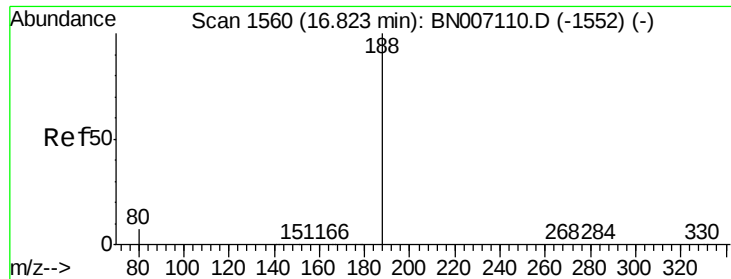
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8/16/2019 6:11:43 PM



#17
Fluorene
Concen: 0.142 ng
RT: 15.12 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BN007205.D
Acq: 15 Aug 2019 20:21

Tgt Ion	Ratio	Lower	Upper
166	100		
165	115.0	77.9	116.9
167	13.7	10.9	16.3





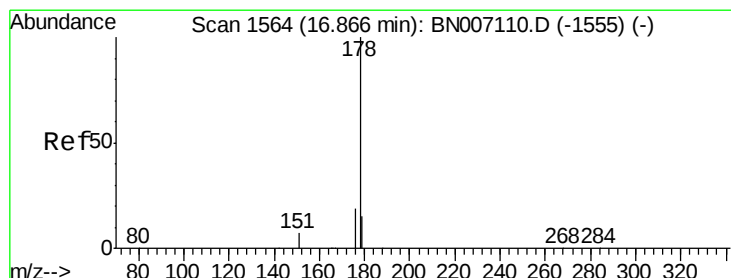
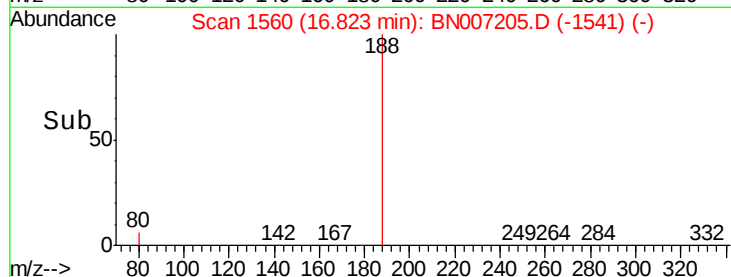
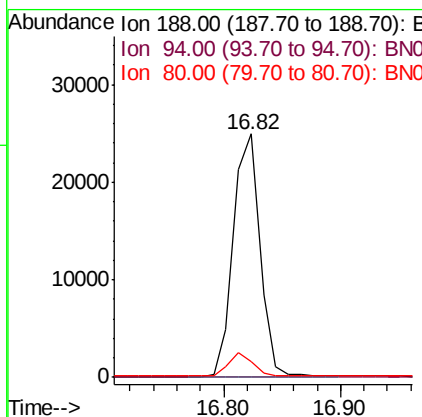
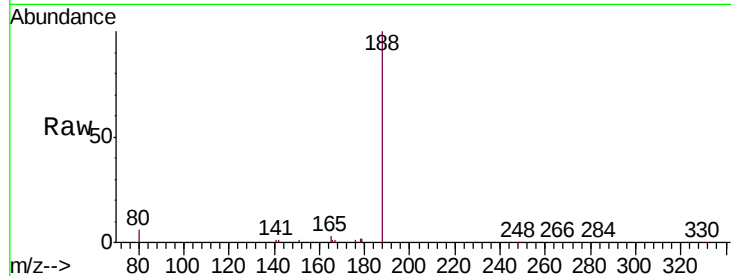
#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007205.D
Acq: 15 Aug 2019 20:21

Instrument :
BNA_N
ClientSampleId :
EXT-032-SW176-073119DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	0.0	0.0	0.0
80	6.4	7.8	11.6

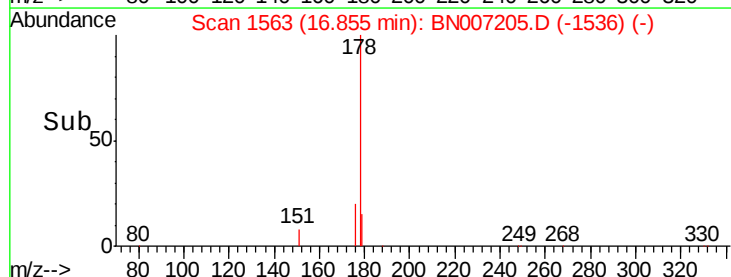
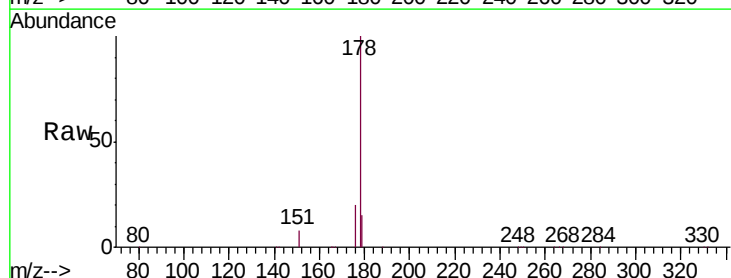
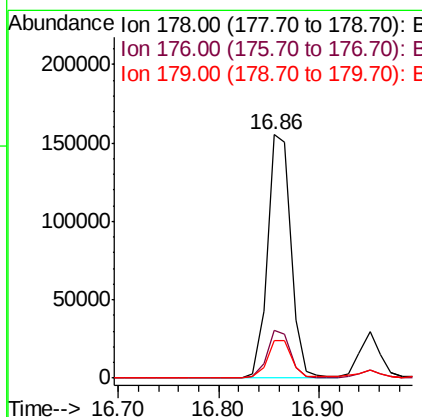
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#22
Phenanthrene
Concen: 2.159 ng
RT: 16.86 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BN007205.D
Acq: 15 Aug 2019 20:21

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.0	15.2	22.8
179	15.6	12.3	18.5





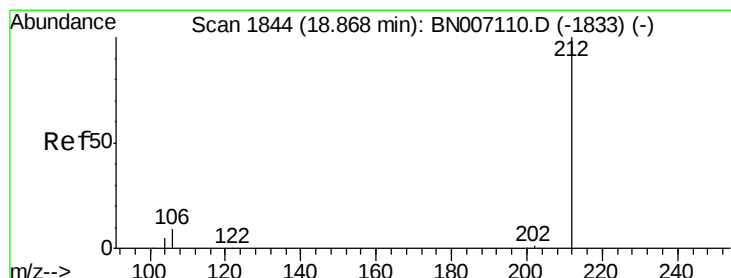
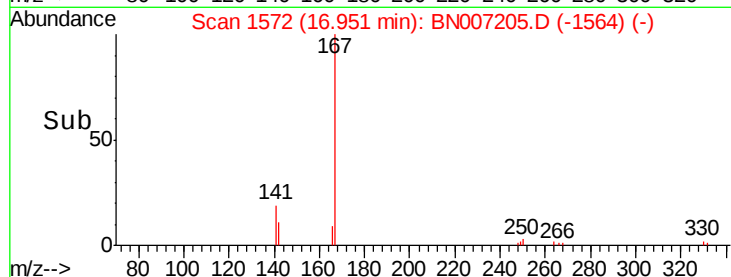
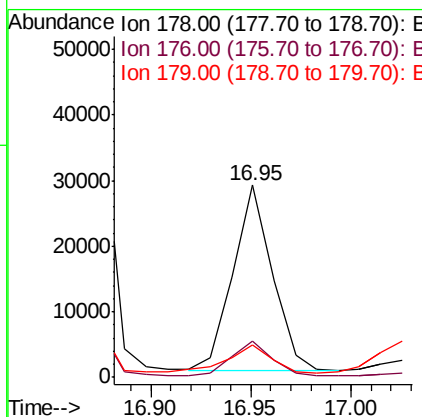
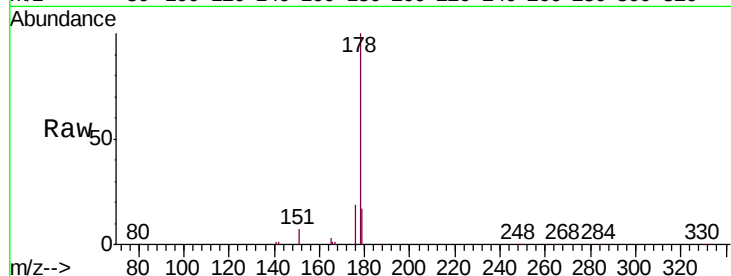
#23
 Anthracene
 Concen: 0.367 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007205.D
 Acq: 15 Aug 2019 20:21

Instrument :
 BNA_N
 ClientSampleId :
 EXT-032-SW176-073119DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	17.2	12.5	18.7

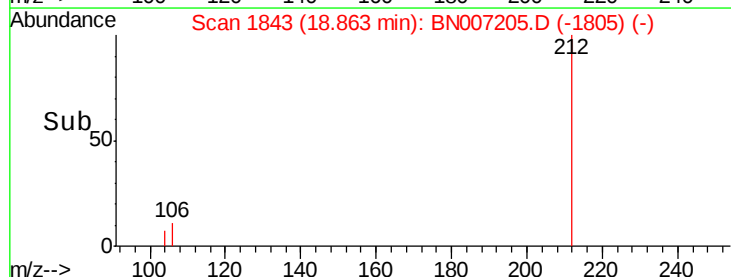
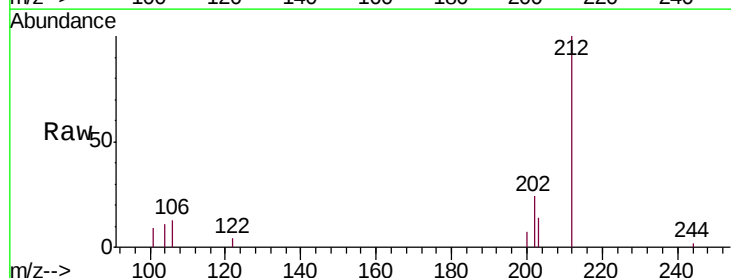
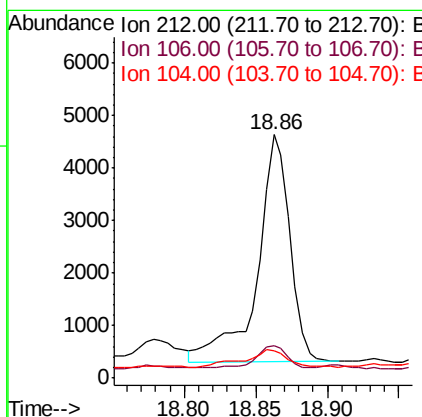
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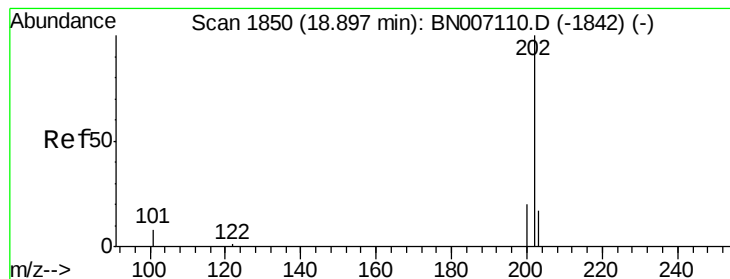
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#24
 Fluoranthene-d10
 Concen: 0.050 ng
 RT: 18.86 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BN007205.D
 Acq: 15 Aug 2019 20:21

Tgt Ion	Ratio	Lower	Upper
212	100		
106	9.9	8.2	12.2
104	10.8	4.5	6.7#





#25

Fluoranthene

Concen: 2.998 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Instrument :

BNA_N

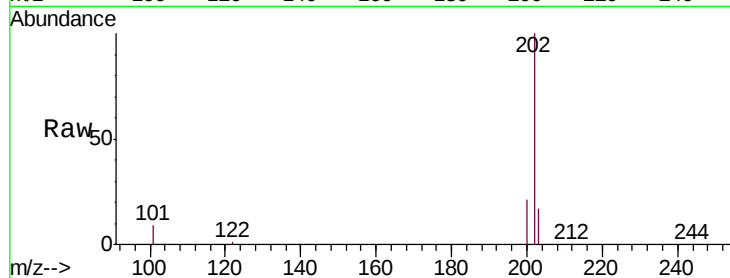
ClientSampleId :

EXT-032-SW176-073119DL

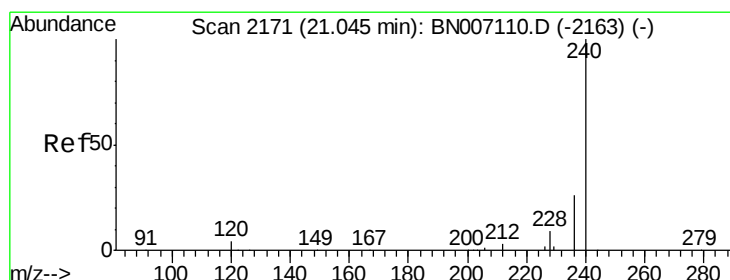
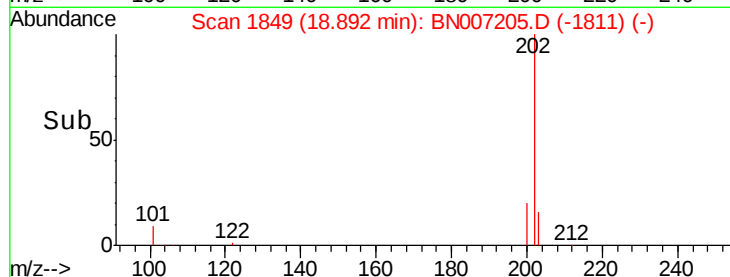
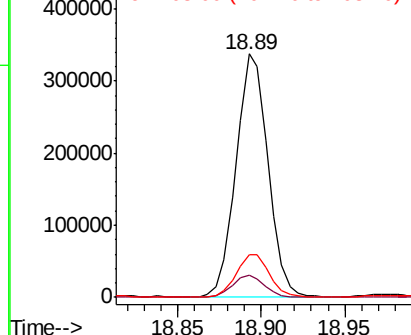
Tgt Ion:	202	Resp:	447685
Ion Ratio	Lower	Upper	
202	100		
101	9.0	7.0	10.4
203	17.9	13.8	20.8

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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: 21.05 min Scan# 2171

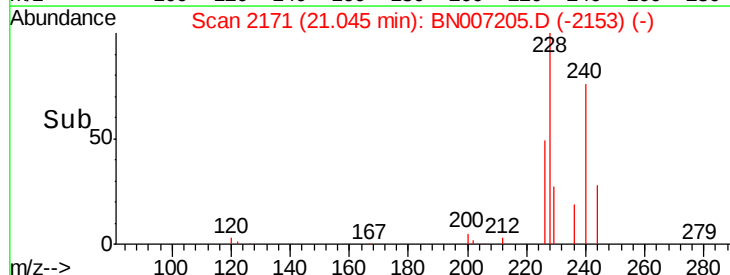
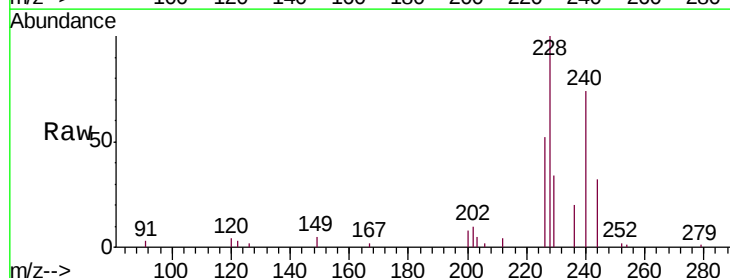
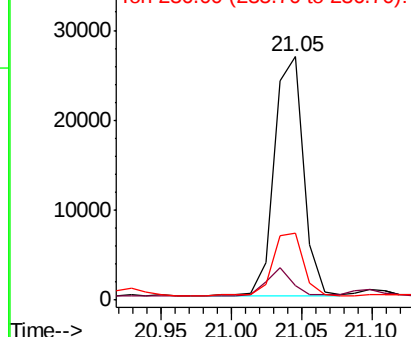
Delta R.T. -0.01 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Tgt Ion:	240	Resp:	39204
Ion Ratio	Lower	Upper	
240	100		
120	5.9	4.0	6.0
236	27.6	21.3	31.9

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





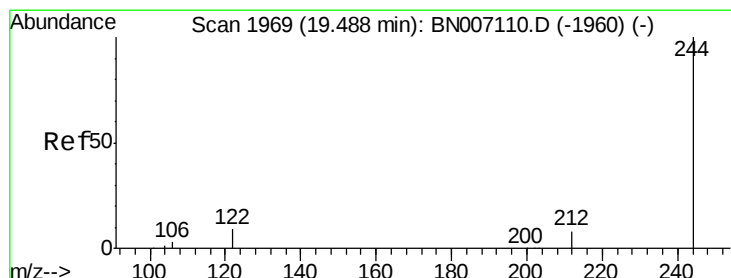
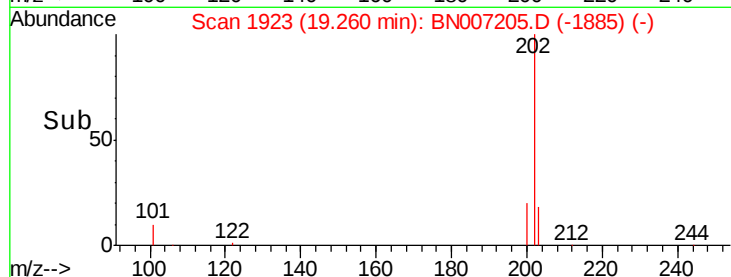
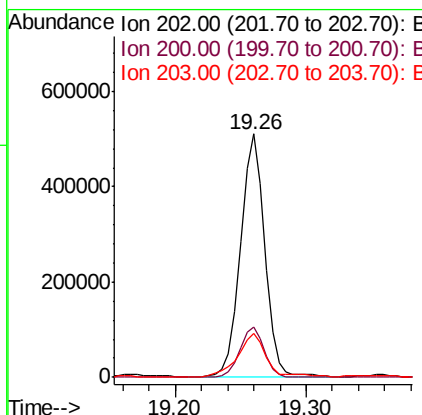
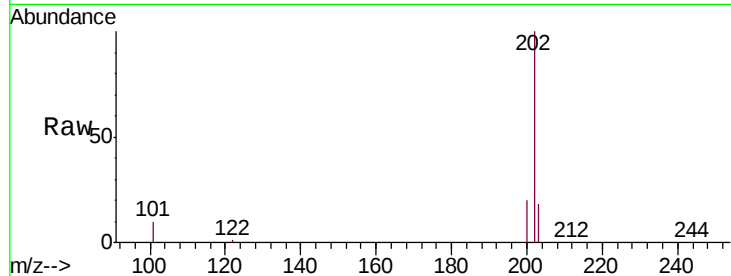
#27
 Pyrene
 Concen: 4.833 ng
 RT: 19.26 min Scan# 1923
 Delta R.T. -0.01 min
 Lab File: BN007205.D
 Acq: 15 Aug 2019 20:21

Instrument :
 BNA_N
 ClientSampleId :
 EXT-032-SW176-073119DL

Tgt Ion:	202	Resp:	664470
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.6	24.8
203	19.7	14.0	21.0

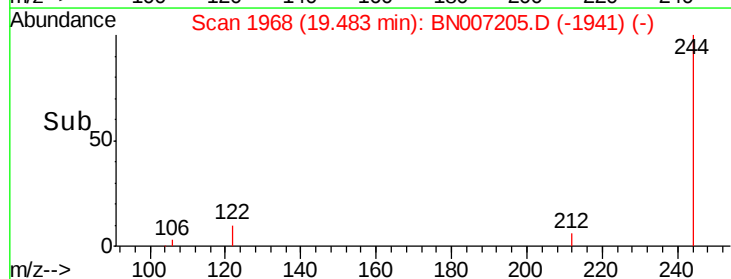
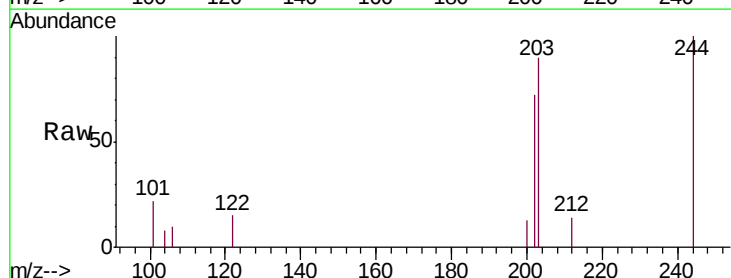
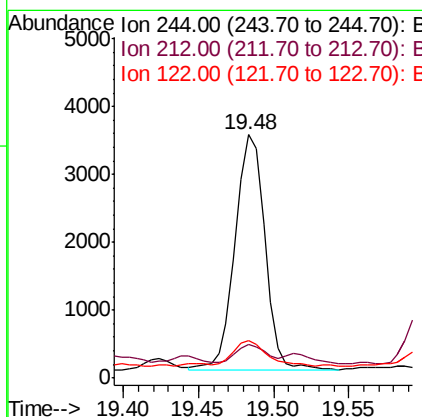
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#28
 Terphenyl-d14
 Concen: 0.045 ng
 RT: 19.48 min Scan# 1968
 Delta R.T. -0.02 min
 Lab File: BN007205.D
 Acq: 15 Aug 2019 20:21

Tgt Ion:	244	Resp:	4819
Ion Ratio	Lower	Upper	
244	100		
212	13.9	6.2	9.2#
122	15.4	7.4	11.2#





#29

Benzo(a)anthracene

Concen: 1.829 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Instrument :

BNA_N

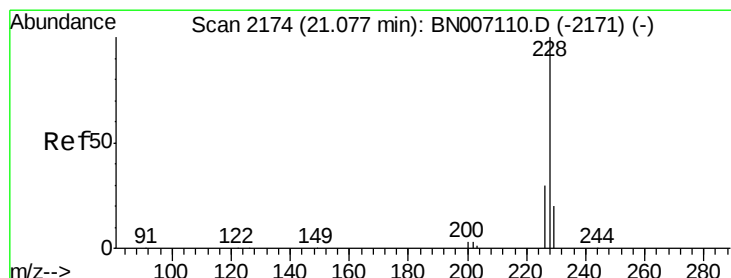
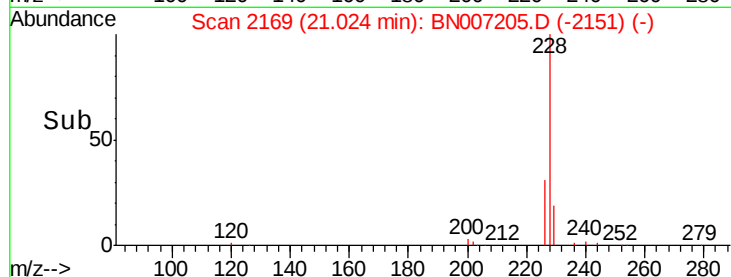
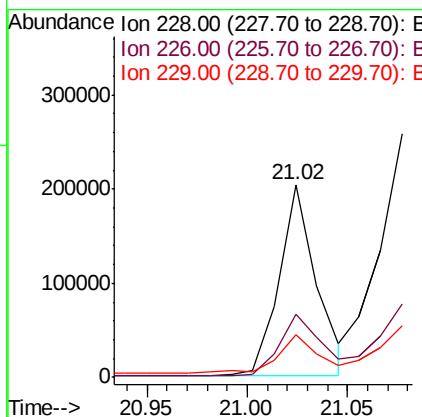
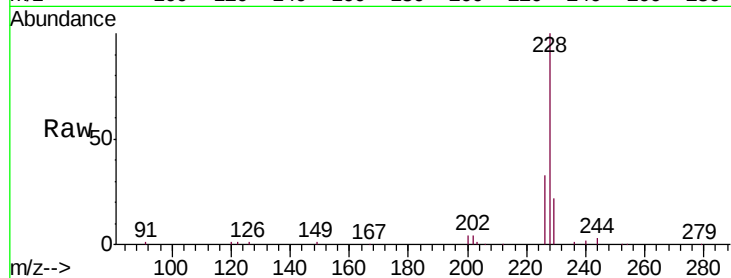
ClientSampleId :

EXT-032-SW176-073119DL

Tgt	Ion	Ratio	Lower	Upper
228	100			
226	32.6	21.8	32.6	
229	21.8	15.6	23.4	

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#30

Chrysene

Concen: 2.553 ng

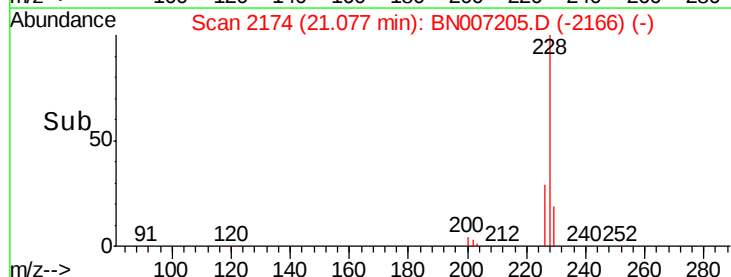
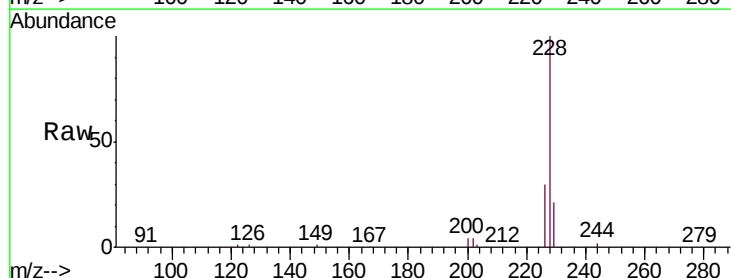
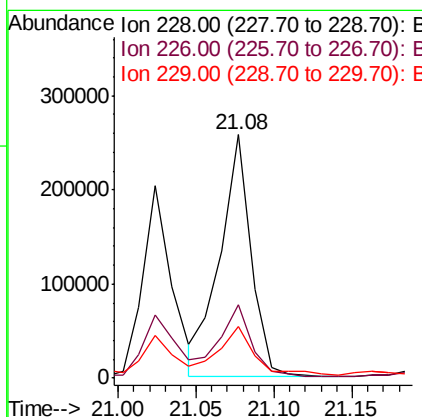
RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

Tgt	Ion	Ratio	Lower	Upper
228	100			
226	30.0	23.8	35.6	
229	21.3	15.7	23.5	





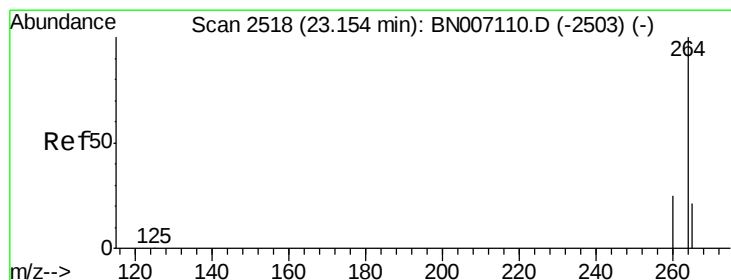
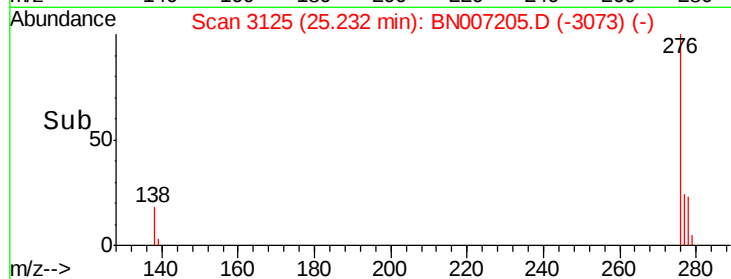
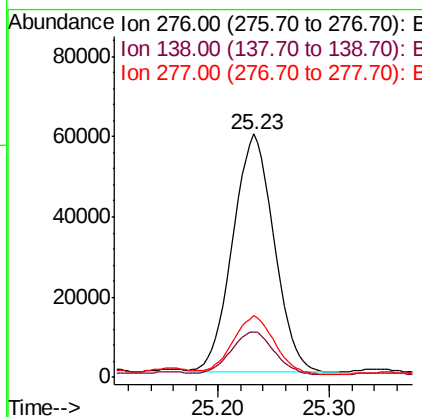
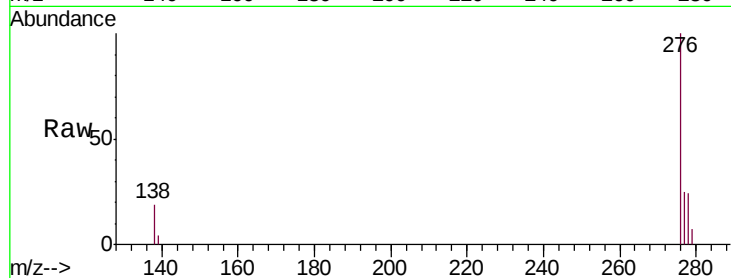
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.992 ng
 RT: 25.23 min Scan# 3125
 Delta R.T. -0.02 min
 Lab File: BN007205.D
 Acq: 15 Aug 2019 20:21

Instrument :
 BNA_N
 ClientSampleId :
 EXT-032-SW176-073119DL

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	152231		
138	18.8	16.0	24.0	
277	24.8	19.9	29.9	

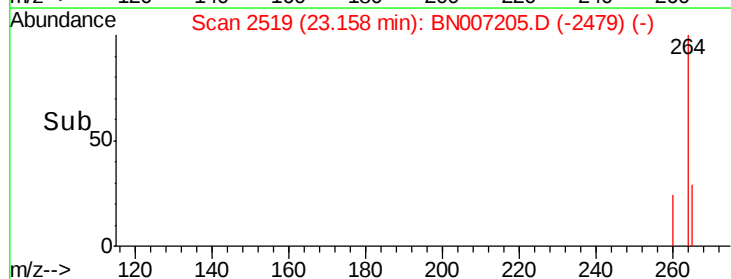
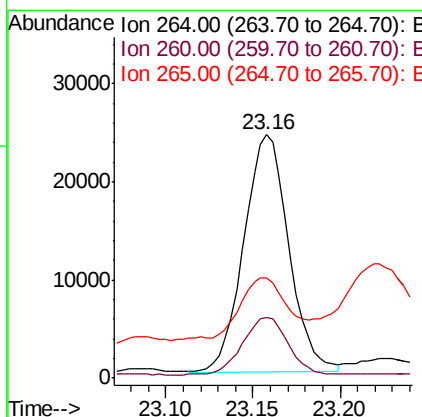
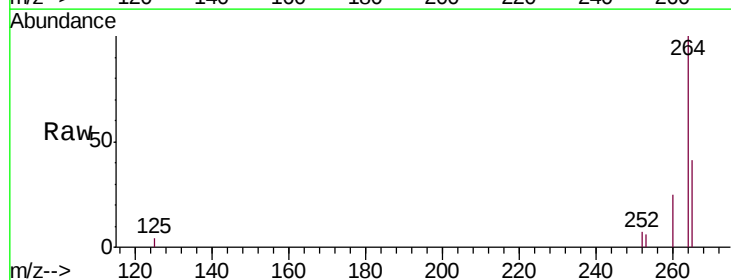
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#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BN007205.D
 Acq: 15 Aug 2019 20:21

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	43300		
260	25.1	19.8	29.8	
265	41.1	26.2	39.4	





#33

Benzo(b)fluoranthene

Concen: 2.201 ng m

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

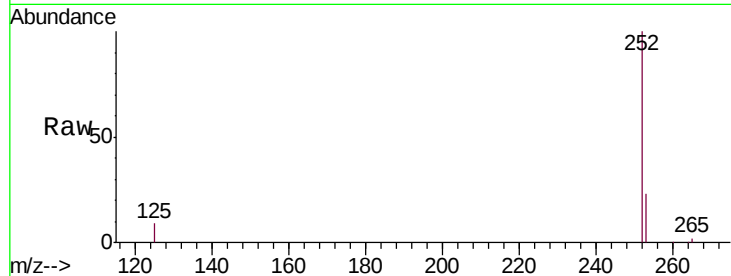
Instrument :
BNA_N

ClientSampleId :
EXT-032-SW176-073119DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	9.2	7.4	11.0

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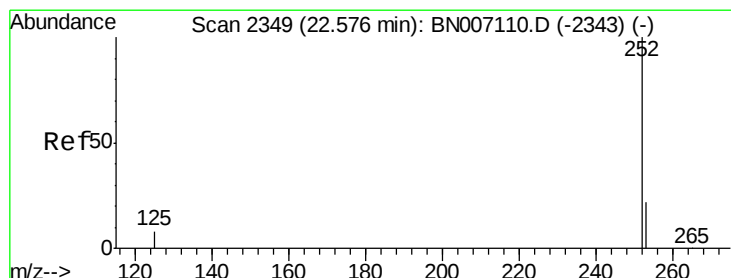
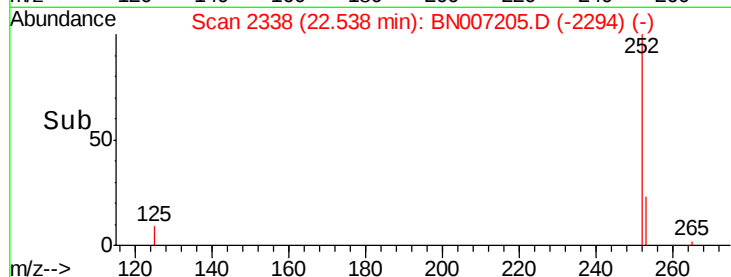
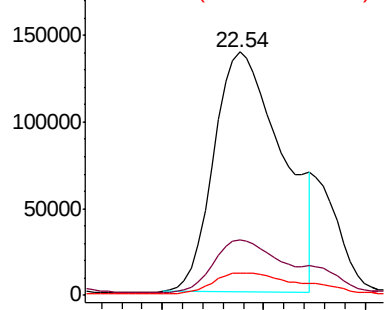


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#34

Benzo(k)fluoranthene

Concen: 0.390 ng m

RT: 22.57 min Scan# 2348

Delta R.T. -0.02 min

Lab File: BN007205.D

Acq: 15 Aug 2019 20:21

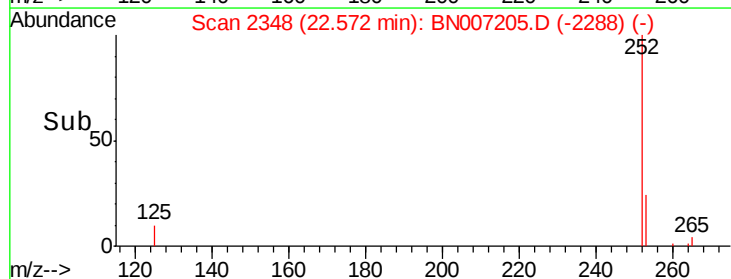
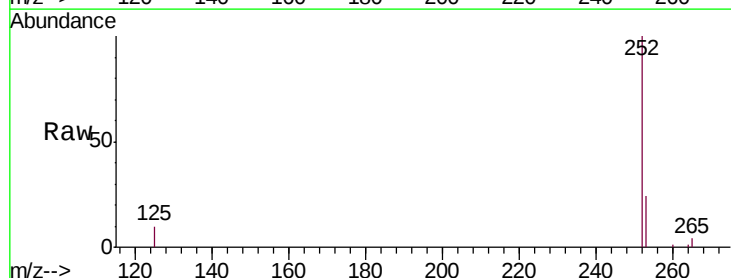
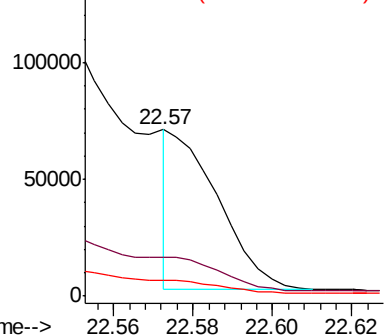
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.1	27.1
125	9.7	7.4	11.0

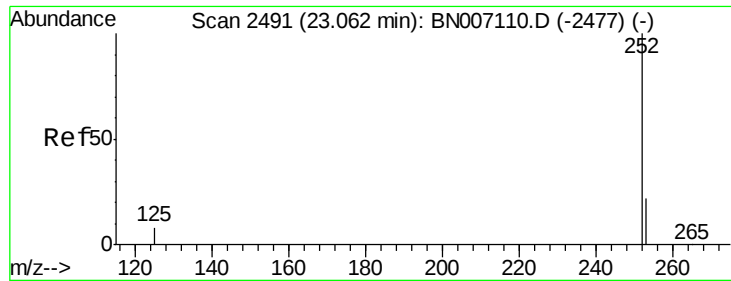
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





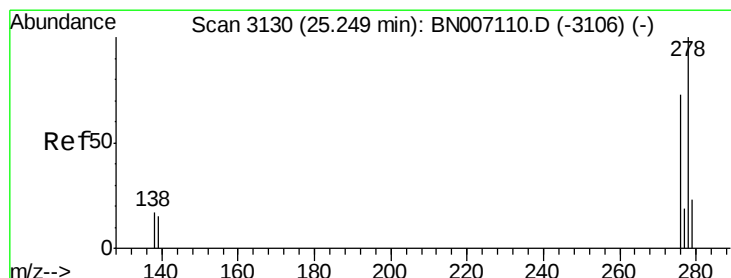
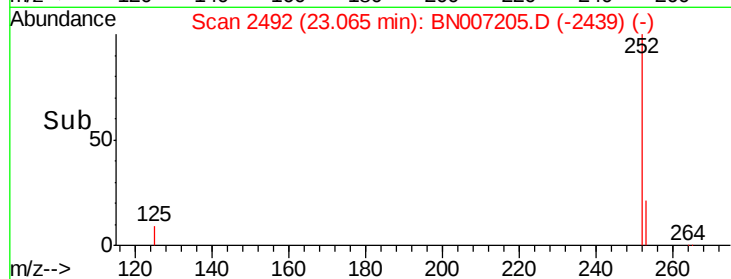
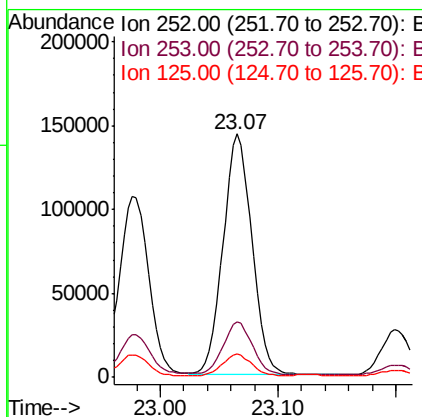
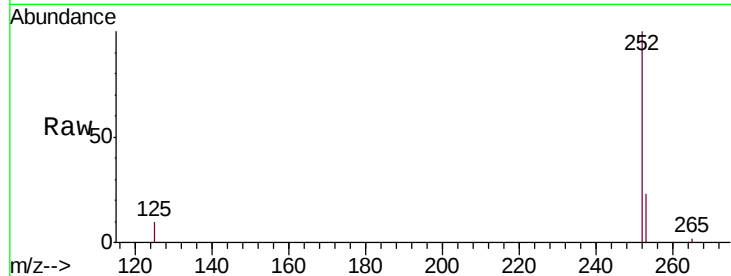
#35
Benzo(a)pyrene
Concen: 1.815 ng
RT: 23.07 min Scan# 2492
Delta R.T. -0.02 min
Lab File: BN007205.D
Acq: 15 Aug 2019 20:21

Instrument :
BNA_N
ClientSampleId :
EXT-032-SW176-073119DL

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	244258		
253	22.8	18.5	27.7	
125	9.5	8.2	12.4	

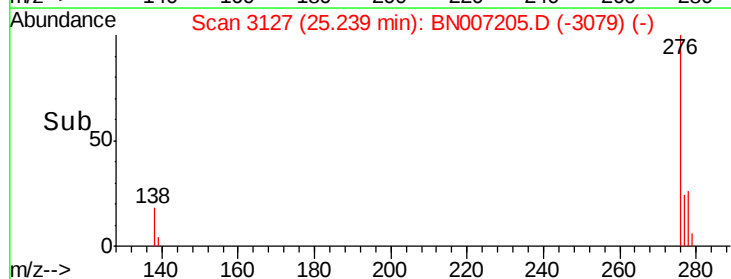
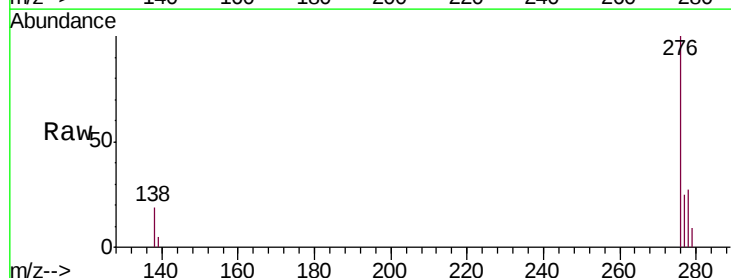
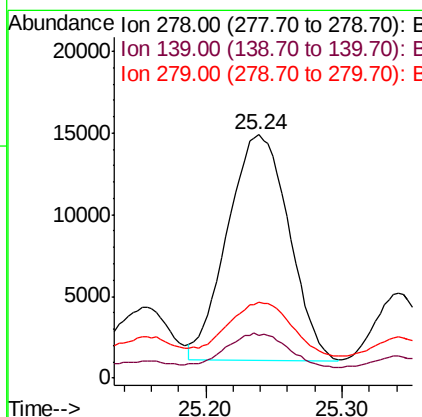
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#36
Dibenzo(a,h)anthracene
Concen: 0.323 ng
RT: 25.24 min Scan# 3127
Delta R.T. -0.03 min
Lab File: BN007205.D
Acq: 15 Aug 2019 20:21

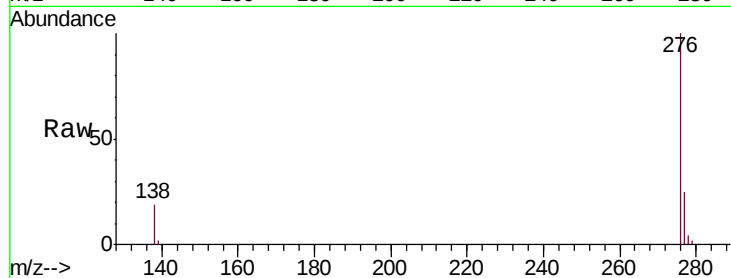
Tgt Ion	Ratio	Resp	Lower	Upper
278	100	43385		
139	17.7	11.3	16.9#	
279	31.3	19.3	28.9#	





#37
 Benzo(g,h,i)perylene
 Concen: 1.231 ng
 RT: 25.86 min Scan# 3308
 Delta R.T. -0.02 min
 Lab File: BN007205.D
 Acq: 15 Aug 2019 20:21

Instrument :
 BNA_N
 ClientSampleId :
 EXT-032-SW176-073119DL



Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	24.6	19.8	29.8
138	19.2	14.6	22.0

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