

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN032419\
 Data File : BN004939.D
 Acq On : 24 Mar 2019 15:15
 Operator : JU/SJ
 Sample : K2015-07
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-025-SW034-031919

Manual Integrations
 APPROVED

Sohil
 3/26/2019 6:33:47 PM

Quant Time: Mar 25 03:53:44 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN032019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 20 16:06:20 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.68	152	3099	0.40	ng	-0.02
7) Naphthalene-d8	10.47	136	12573	0.40	ng	-0.03
13) Acenaphthene-d10	14.32	164	7003	0.40	ng	-0.02
19) Phenanthrene-d10	17.08	188	15431	0.40	ng	-0.01
27) Chrysene-d12	21.28	240	15760	0.40	ng	-0.01
34) Perylene-d12	23.52	264	15540	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.28	112	3027	0.36	ng	0.00
5) Phenol-d6	6.86	99	3780	0.36	ng	-0.02
8) Nitrobenzene-d5	8.84	82	3057	0.37	ng	-0.03
11) 2-Methylnaphthalene-d10	12.06	152	6761	0.31	ng	-0.02
14) 2,4,6-Tribromophenol	15.83	330	1614	0.33	ng	-0.02
15) 2-Fluorobiphenyl	12.94	172	9067	0.31	ng	-0.02
25) Fluoranthene-d10	19.11	212	13627	0.26	ng	-0.02
29) Terphenyl-d14	19.71	244	9275	0.29	ng	-0.01

Target Compounds

						Qvalue
6) bis(2-Chloroethyl)ether	7.10	93	1931	0.204	ng	# 30
9) Naphthalene	10.52	128	1409	0.040	ng	# 84
12) 2-Methylnaphthalene	12.14	142	884	0.034	ng	# 90
16) Acenaphthylene	14.04	152	5958	0.165	ng	99
17) Acenaphthene	14.39	154	896	0.038	ng	# 77
18) Fluorene	15.38	166	1785	0.054	ng	# 85
21) Hexachlorobenzene	16.38	284	506	0.044	ng	# 83
22) Pentachlorophenol	16.74	266	217	0.096	ng	90
23) Phenanthrene	17.12	178	40827	0.819	ng	99
24) Anthracene	17.21	178	6812	0.153	ng	# 95
26) Fluoranthene	19.15	202	79364	1.239	ng	98
28) Pyrene	19.51	202	75666	1.575	ng	96
30) Benzo(a)anthracene	21.26	228	35812	0.693	ng	95
31) Chrysene	21.31	228	43121	0.792	ng	96
32) Bis(2-ethylhexyl)phthalate	21.17	149	106398	5.152	ng	99
33) Indeno(1,2,3-cd)pyrene	25.78	276	28693	0.364	ng	99
35) Benzo(b)fluoranthene	22.85	252	55305	0.984	ng	# 78
36) Benzo(k)fluoranthene	22.89	252	19696m	0.356	ng	
37) Benzo(a)pyrene	23.42	252	35697	0.692	ng	# 90
38) Dibenzo(a,h)anthracene	25.79	278	8300	0.139	ng	# 51
39) Benzo(g,h,i)perylene	26.48	276	29137	0.479	ng	# 91

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

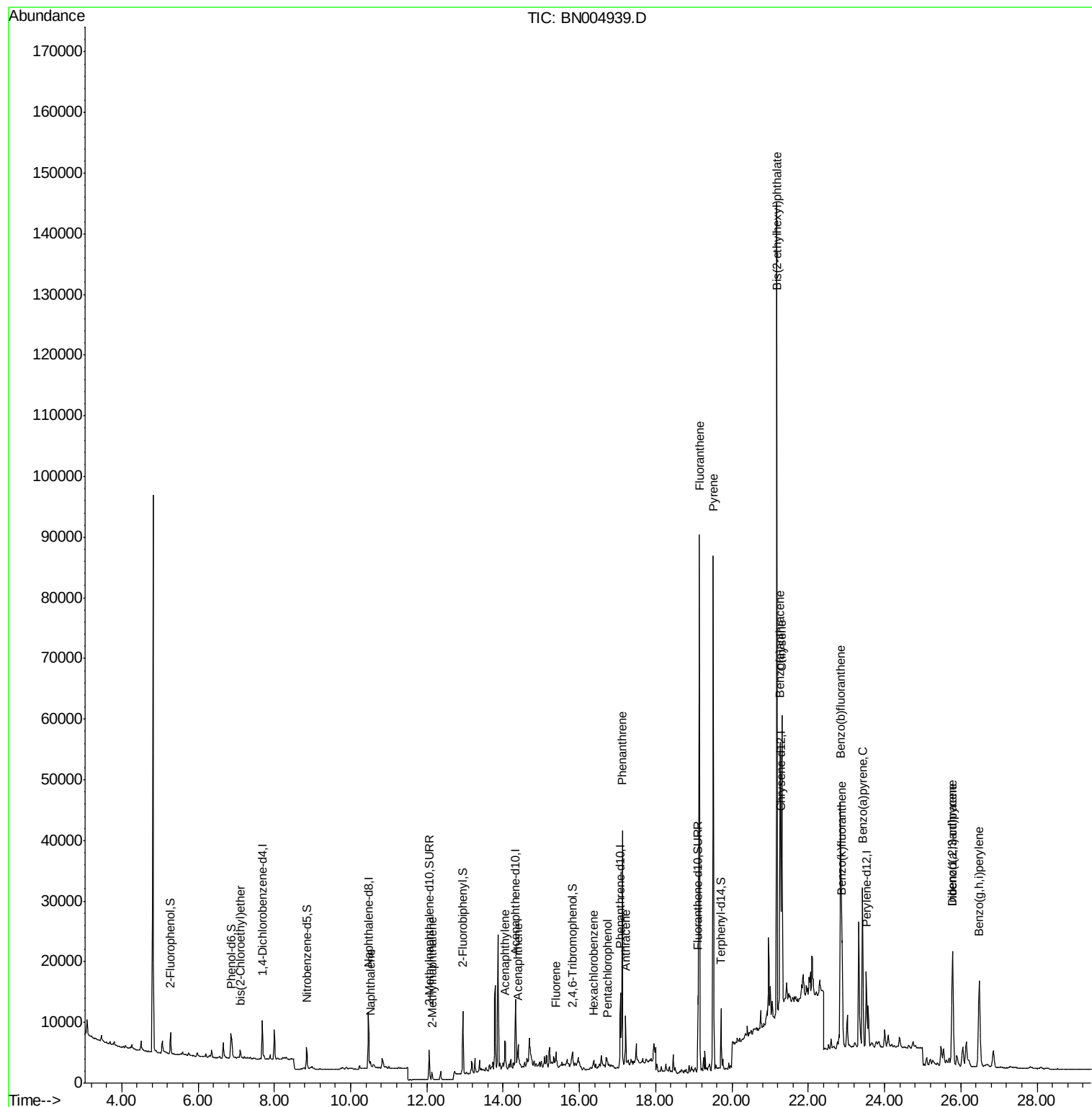
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN032419\
Data File : BN004939.D
Acq On : 24 Mar 2019 15:15
Operator : JU/SJ
Sample : K2015-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

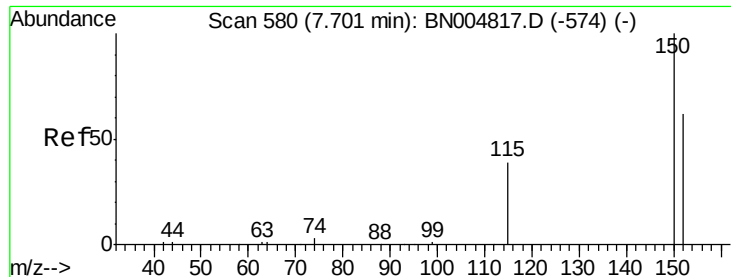
Instrument :
BNA_N
ClientSampleId :
EXT-025-SW034-031919

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN032019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

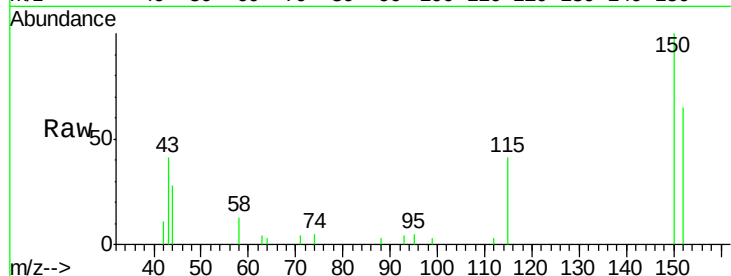
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.68 min Scan# 578
 Delta R.T. -0.02 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Instrument :
 BNA_N
 ClientSampleId :
 EXT-025-SW034-031919

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.9	126.2	189.4
115	63.8	52.6	79.0

Manual Integrations
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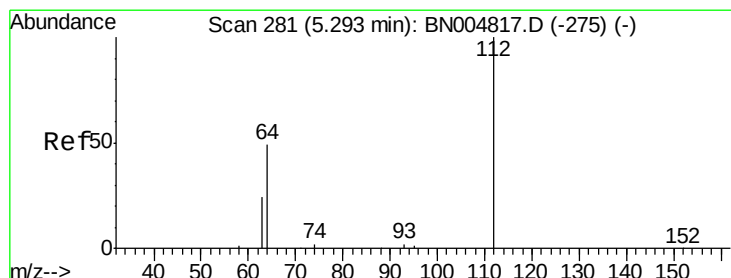
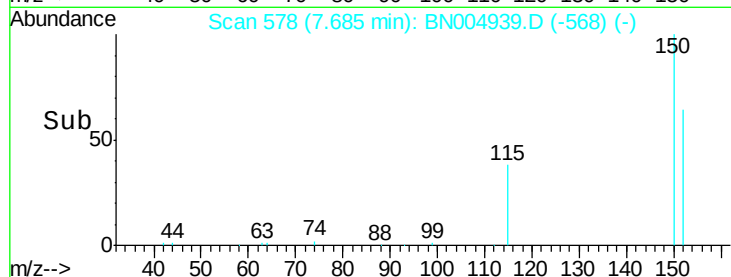
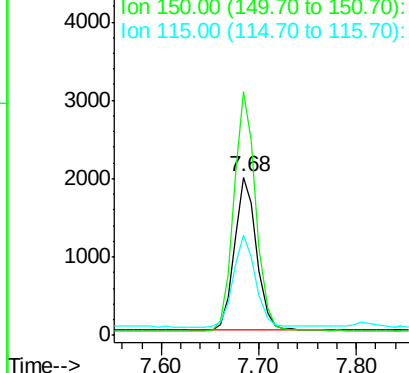


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

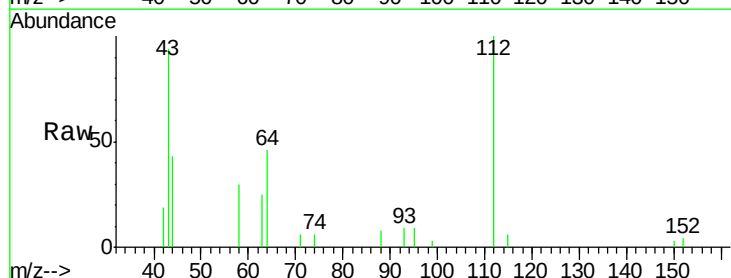
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
 Concen: 0.359 ng
 RT: 5.28 min Scan# 280
 Delta R.T. -0.01 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.1	40.0	60.0
63	27.2	20.2	30.2

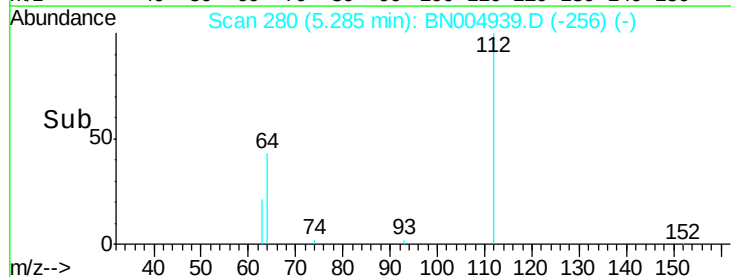
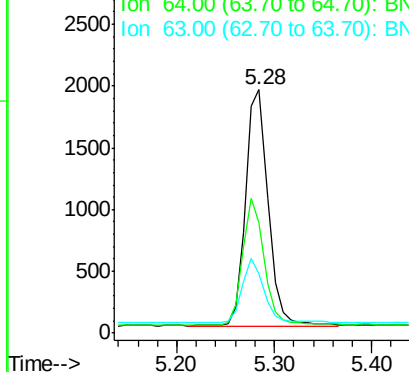


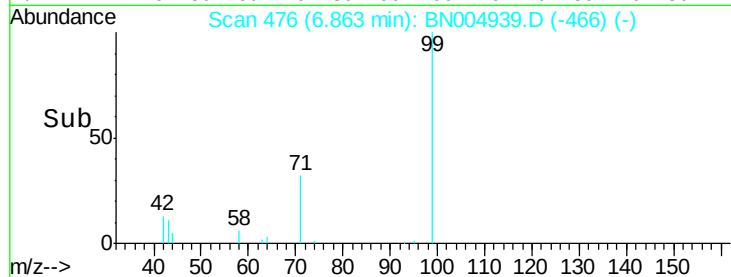
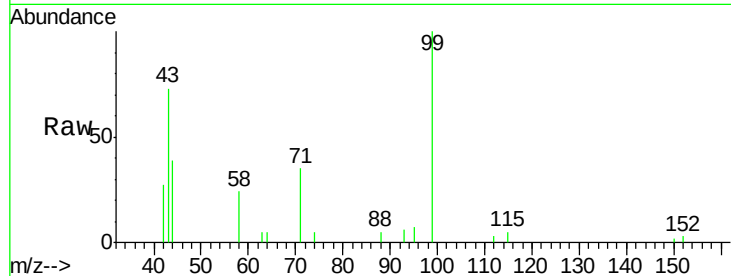
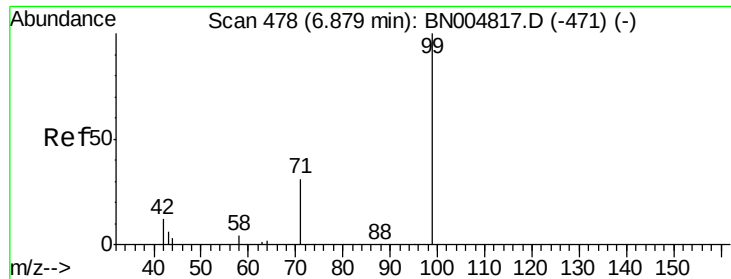
Abundance

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





#5

Phenol-d6

Concen: 0.360 ng

RT: 6.86 min Scan# 476

Delta R.T. -0.02 min

Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Tgt Ion:	99	Resp:	3780
Ion Ratio	Lower	Upper	
99	100		
42	21.7	12.7	19.1#
71	33.5	26.6	40.0

Instrument :

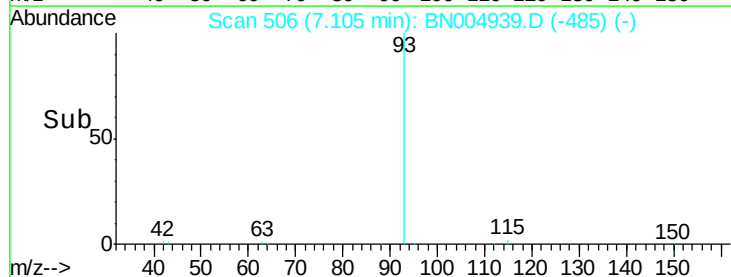
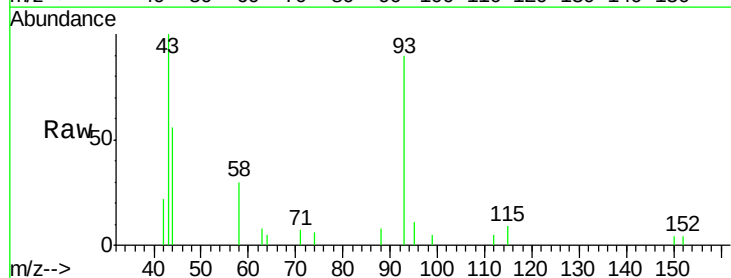
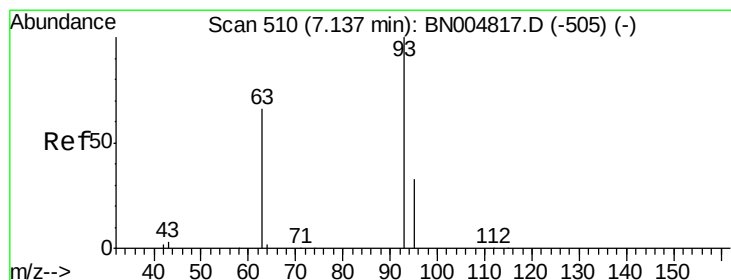
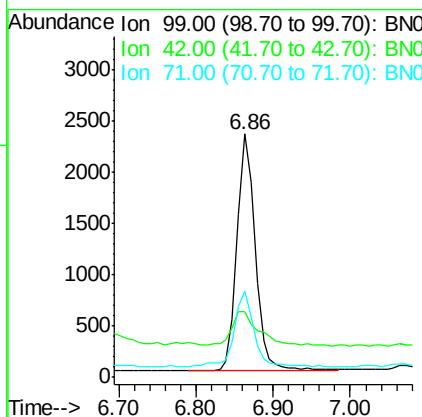
BNA_N

ClientSampleId :

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#6

bis(2-Chloroethyl)ether

Concen: 0.204 ng

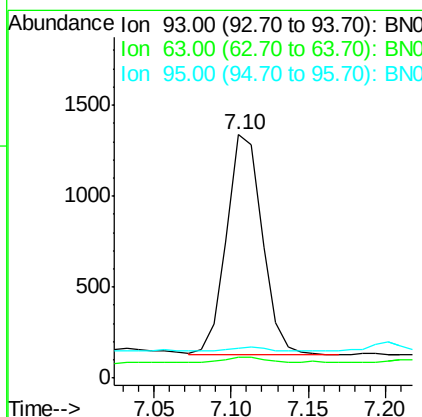
RT: 7.10 min Scan# 506

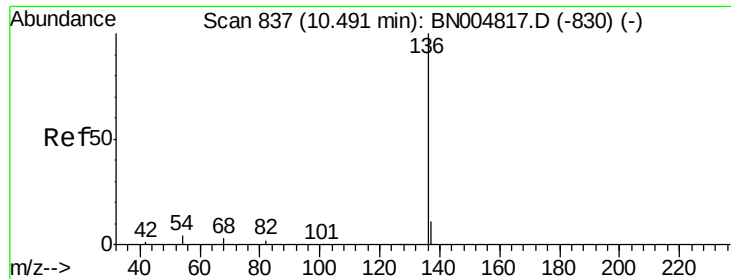
Delta R.T. -0.03 min

Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Tgt Ion:	93	Resp:	1931
Ion Ratio	Lower	Upper	
93	100		
63	3.5	52.6	78.8#
95	2.5	25.9	38.9#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.47 min Scan# 835

Delta R.T. -0.03 min

Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Instrument :

BNA_N

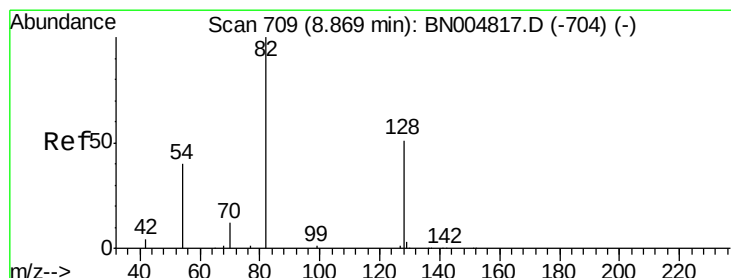
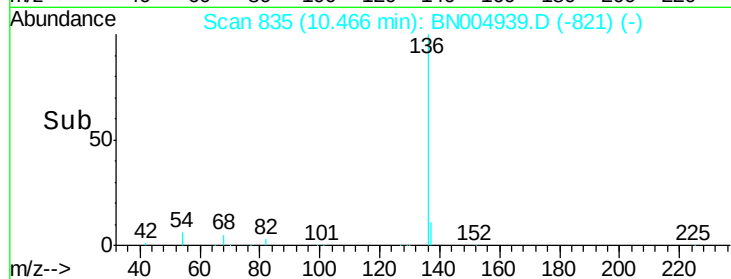
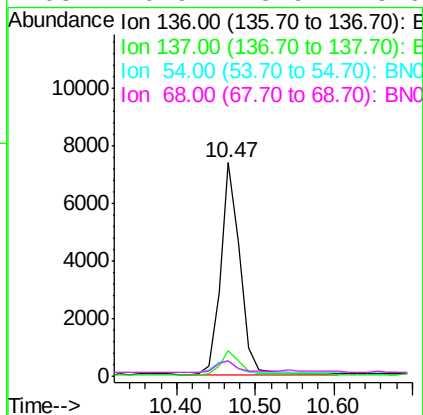
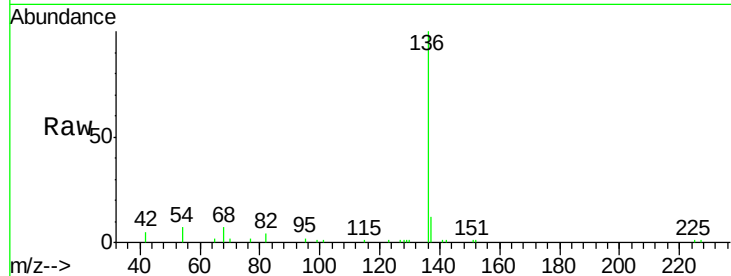
ClientSampleId :

EXT-025-SW034-031919

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.6	14.4
54	7.5	4.2	6.2#
68	6.9	3.9	5.9#

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#8

Nitrobenzene-d5

Concen: 0.368 ng

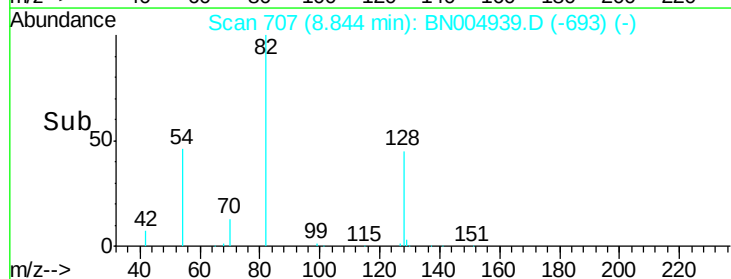
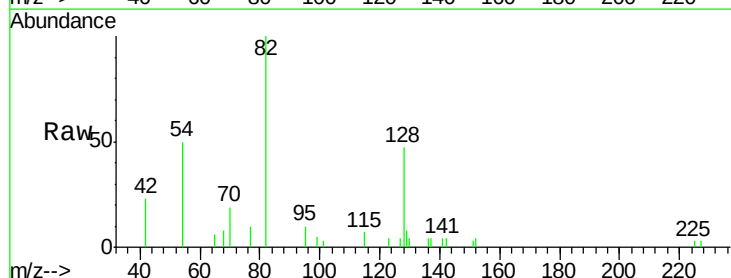
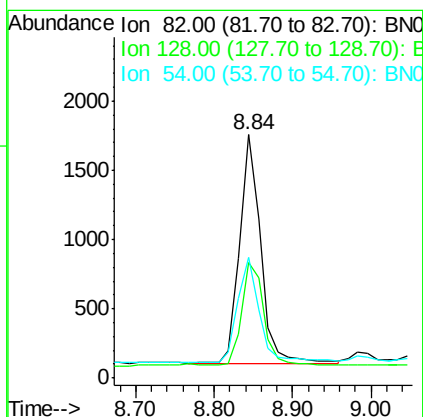
RT: 8.84 min Scan# 707

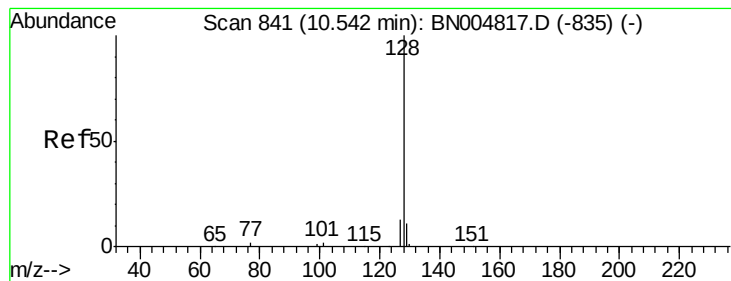
Delta R.T. -0.03 min

Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.5	43.0	64.6
54	49.7	35.3	52.9





#9

Naphthalene

Concen: 0.040 ng

RT: 10.52 min Scan# 839

Delta R.T. -0.03 min

Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Instrument :

BNA_N

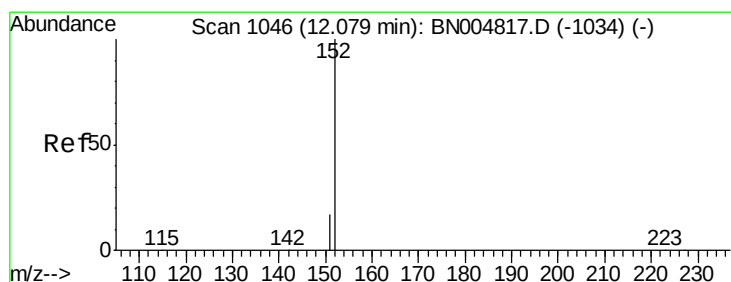
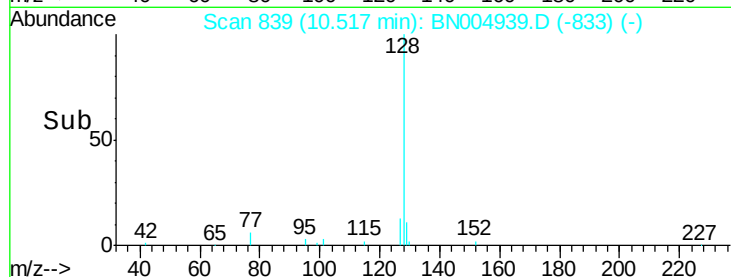
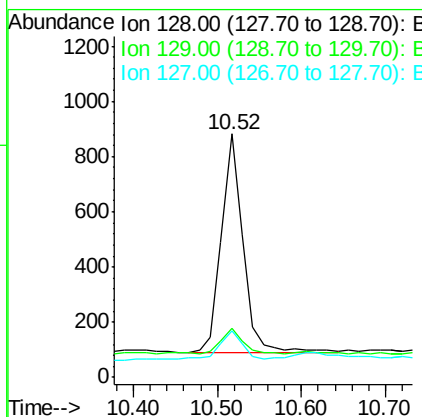
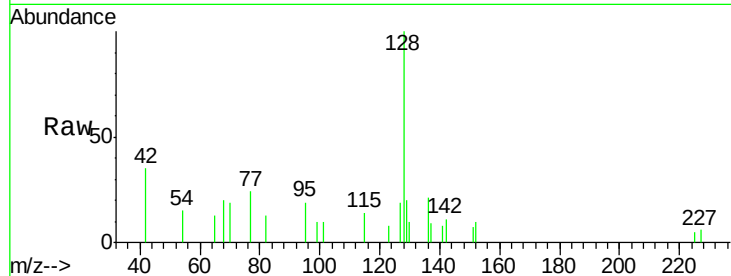
ClientSampleId :

EXT-025-SW034-031919

Tgt Ion:	128	Resp:	1409
Ion Ratio	Lower	Upper	
128	100		
129	20.1	9.9	14.9#
127	19.3	11.3	16.9#

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#11

2-Methylnaphthalene-d10

Concen: 0.308 ng

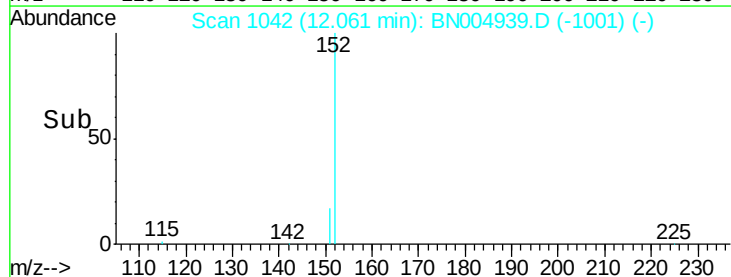
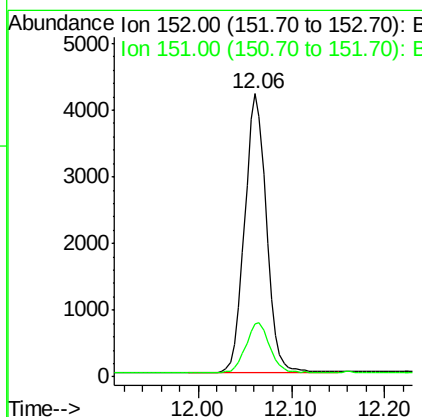
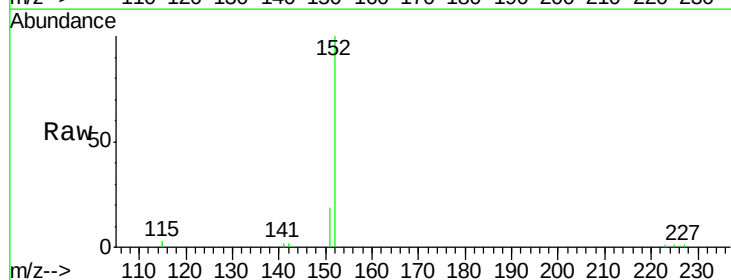
RT: 12.06 min Scan# 1042

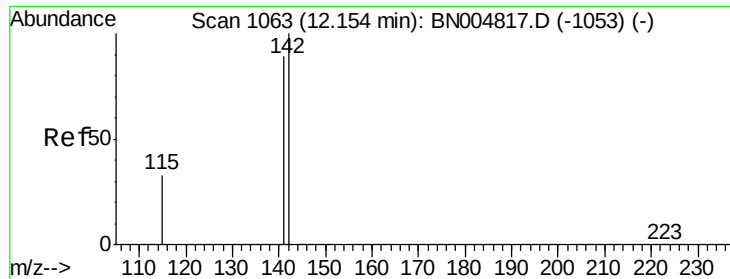
Delta R.T. -0.02 min

Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Tgt Ion:	152	Resp:	6761
Ion Ratio	Lower	Upper	
152	100		
151	19.8	15.5	23.3





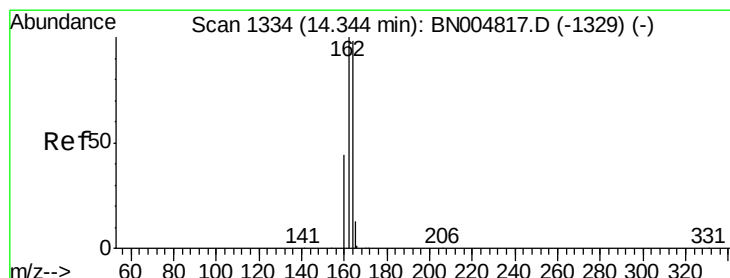
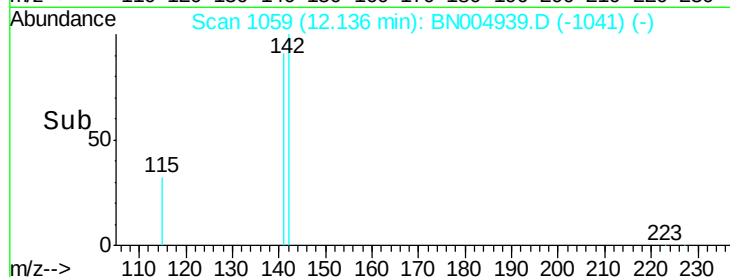
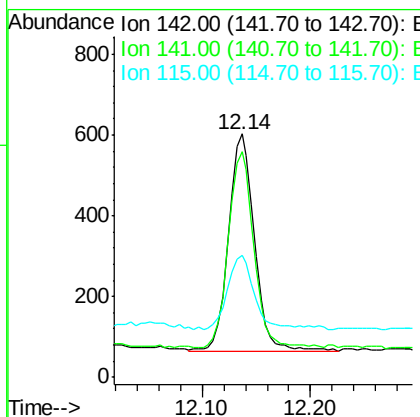
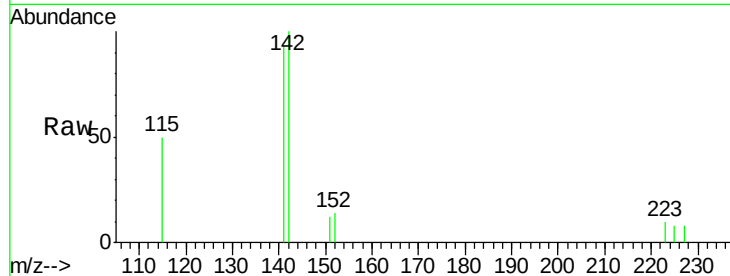
#12
2-Methylnaphthalene
Concen: 0.034 ng
RT: 12.14 min Scan# 1059
Delta R.T. -0.02 min
Lab File: BN004939.D
Acq: 24 Mar 2019 15:15

Instrument :
BNA_N
ClientSampleId :
EXT-025-SW034-031919

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.5	71.4	107.2
115	49.9	27.5	41.3

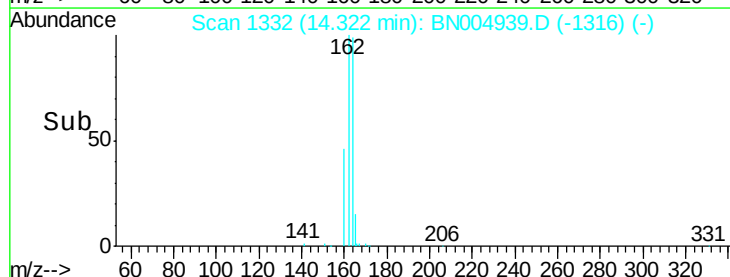
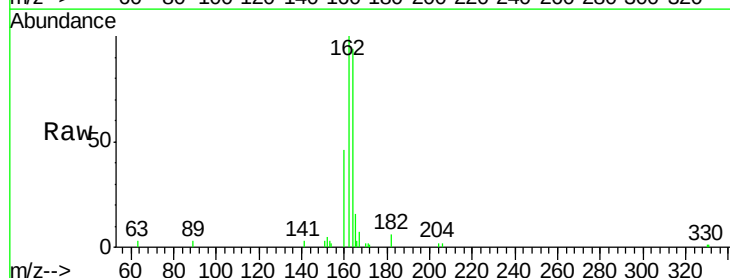
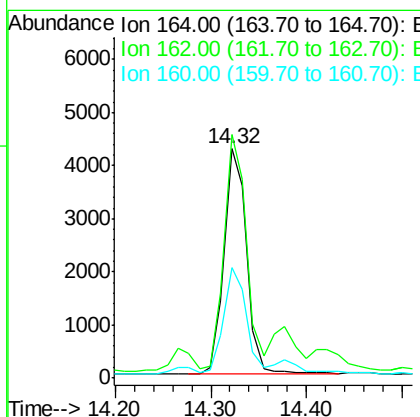
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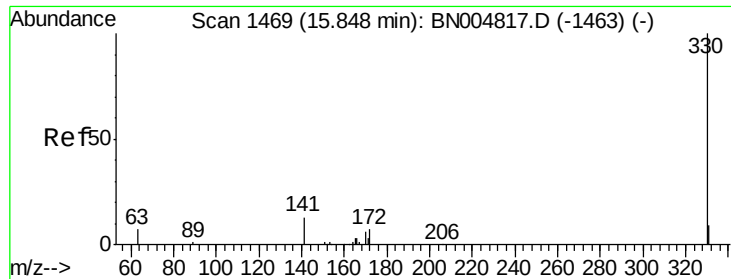
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#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.32 min Scan# 1332
Delta R.T. -0.02 min
Lab File: BN004939.D
Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.1	81.9	122.9
160	48.4	36.6	54.8





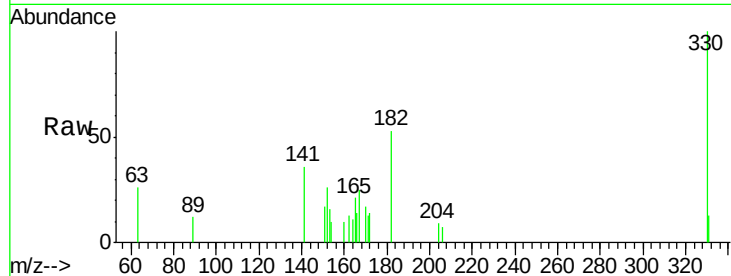
#14
 2,4,6-Tribromophenol
 Concen: 0.334 ng
 RT: 15.83 min Scan# 1467
 Delta R.T. -0.02 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Instrument :
 BNA_N
 ClientSampleId :
 EXT-025-SW034-031919

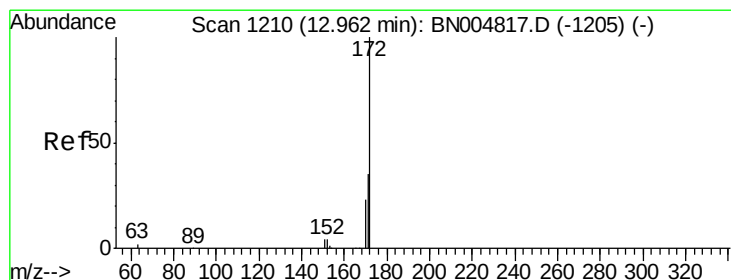
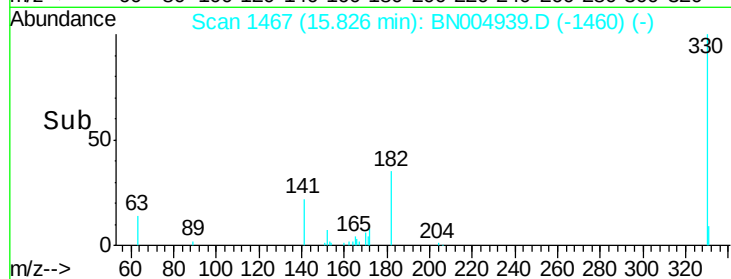
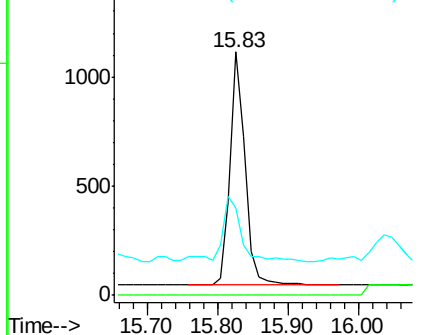
Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.3	20.9	31.3

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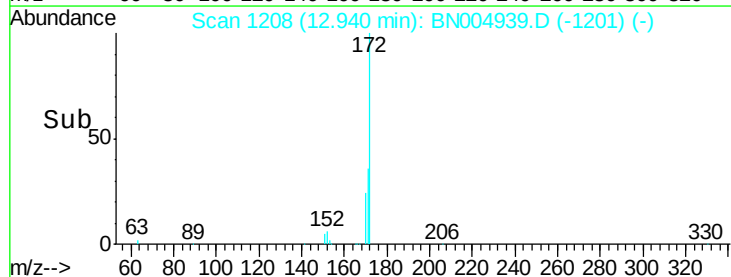
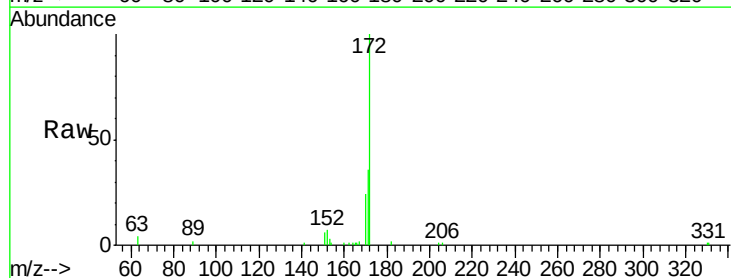
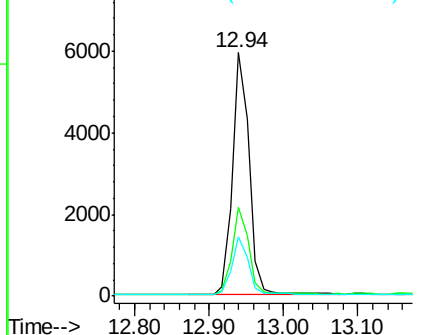
Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

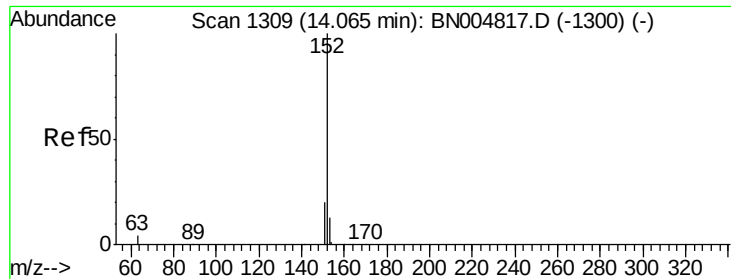


#15
 2-Fluorobiphenyl
 Concen: 0.313 ng
 RT: 12.94 min Scan# 1208
 Delta R.T. -0.02 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.7	43.1
170	24.4	18.7	28.1

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





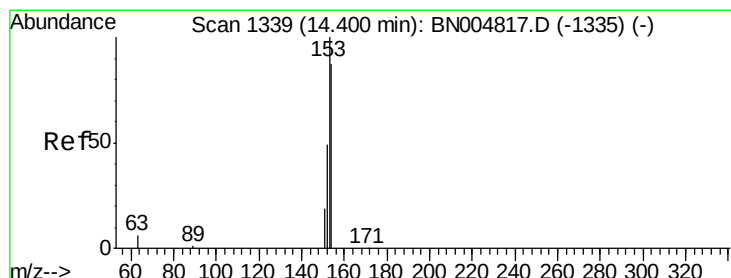
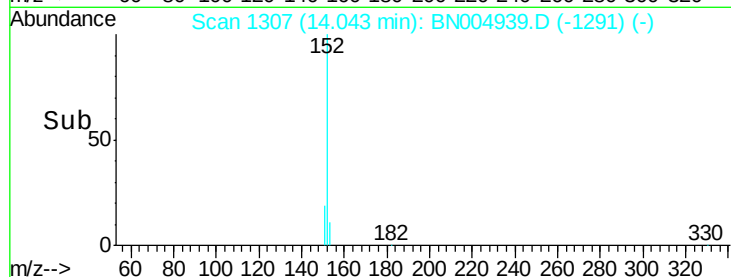
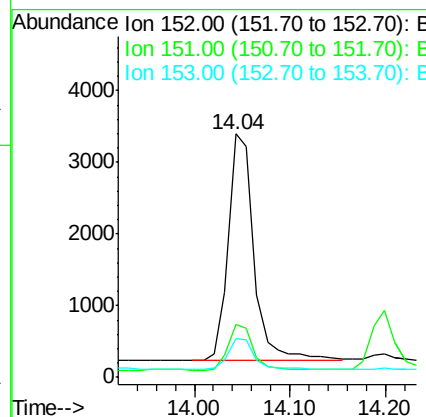
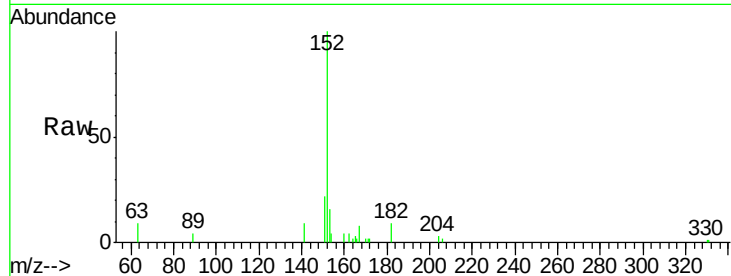
#16
Acenaphthylene
Concen: 0.165 ng
RT: 14.04 min Scan# 1307
Delta R.T. -0.02 min
Lab File: BN004939.D
Acq: 24 Mar 2019 15:15

Instrument :
BNA_N
ClientSampleId :
EXT-025-SW034-031919

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	14.1	10.5	15.7

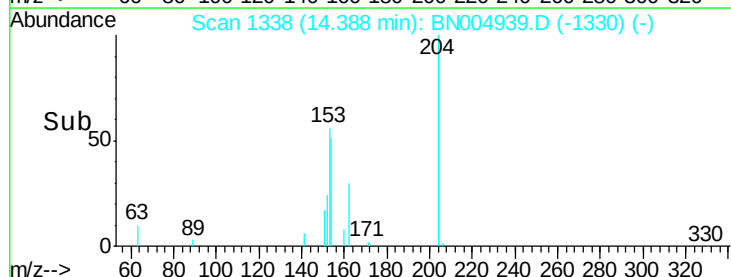
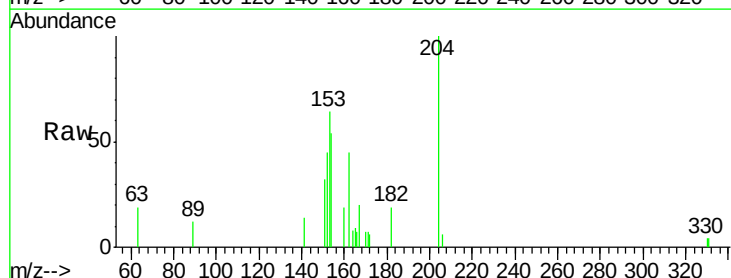
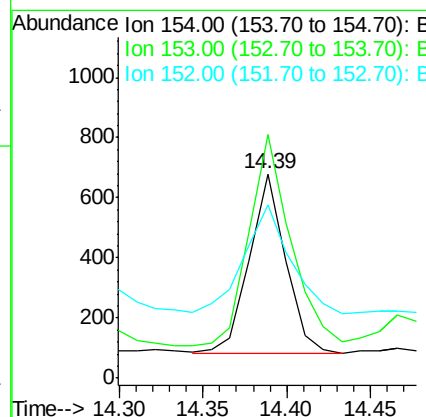
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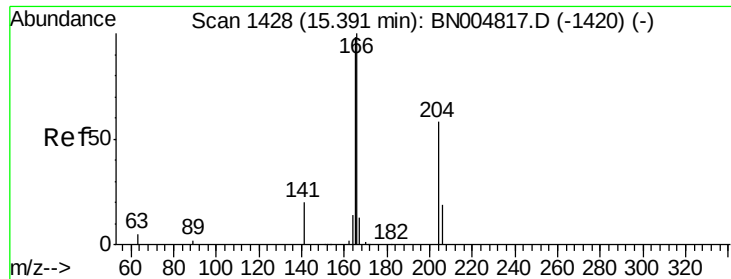
Sohil
3/26/2019 6:33:47 PM



#17
Acenaphthene
Concen: 0.038 ng
RT: 14.39 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BN004939.D
Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
154	100		
153	135.6	91.4	137.2
152	77.7	44.2	66.2#





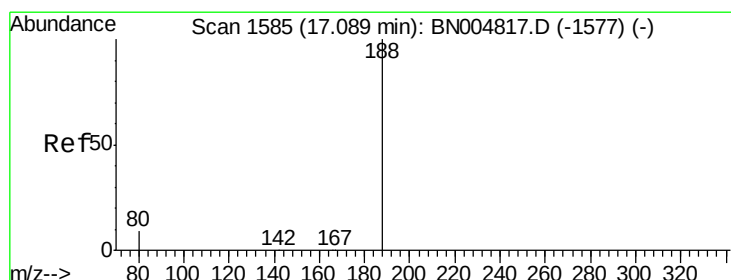
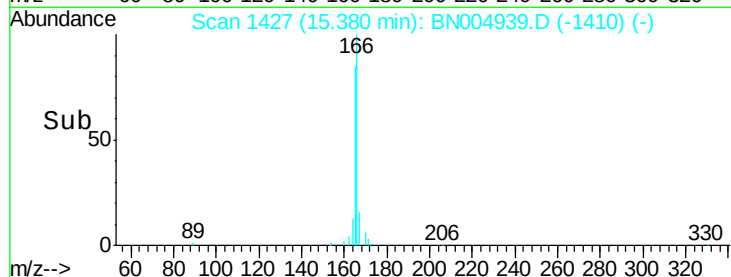
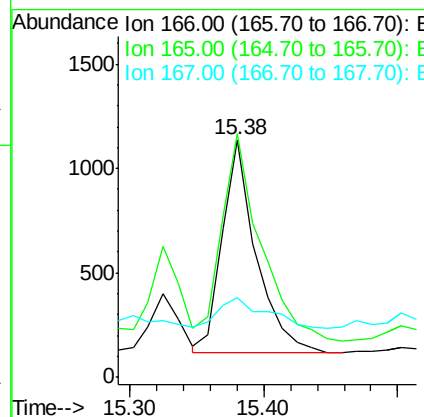
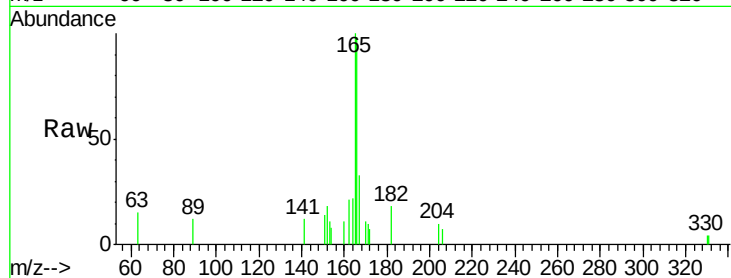
#18
Fluorene
 Concen: 0.054 ng
 RT: 15.38 min Scan# 1427
 Delta R.T. -0.01 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Instrument :
 BNA_N
 ClientSampleId :
 EXT-025-SW034-031919

Tgt Ion	Ratio	Lower	Upper
166	100		
165	111.9	78.2	117.4
167	20.4	11.0	16.4

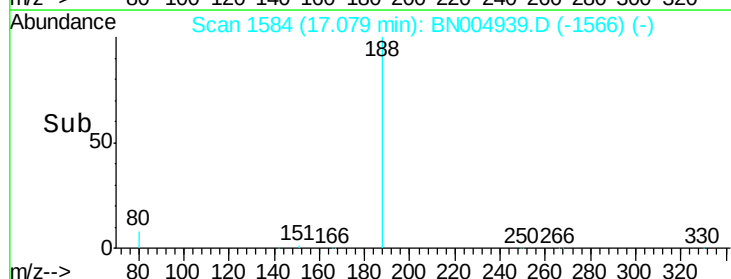
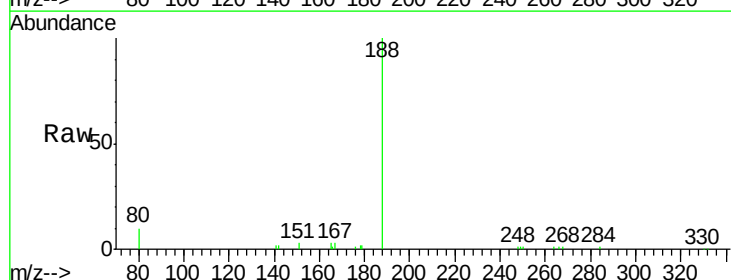
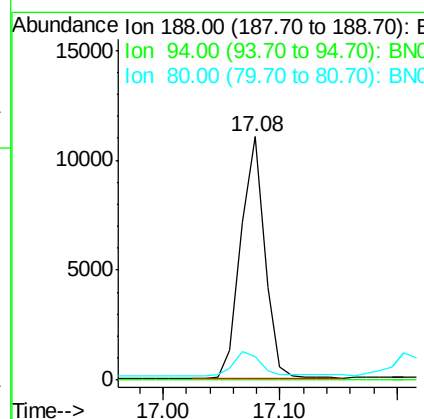
Manual Integrations
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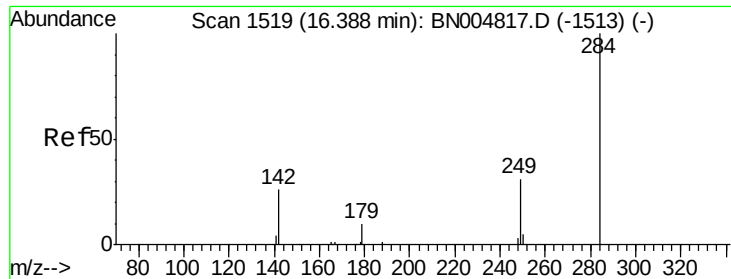
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#19
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.08 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	7.4	11.2





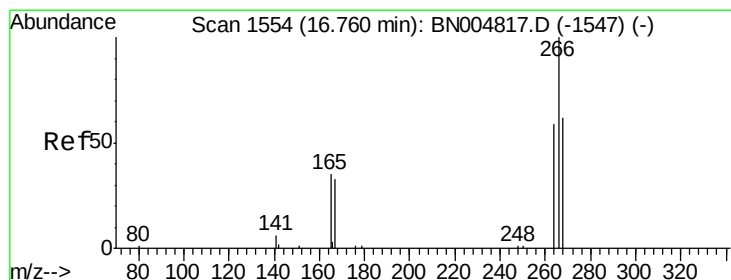
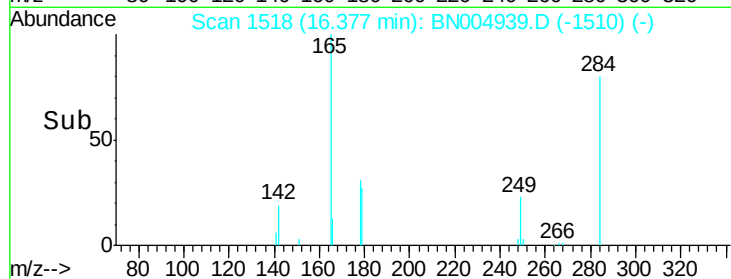
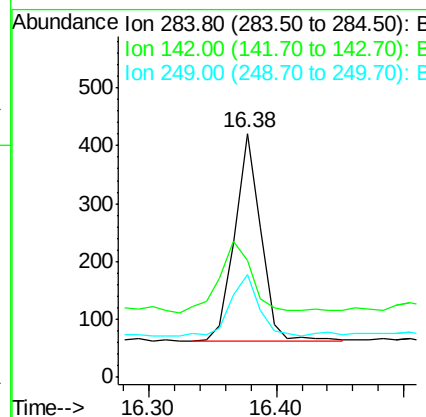
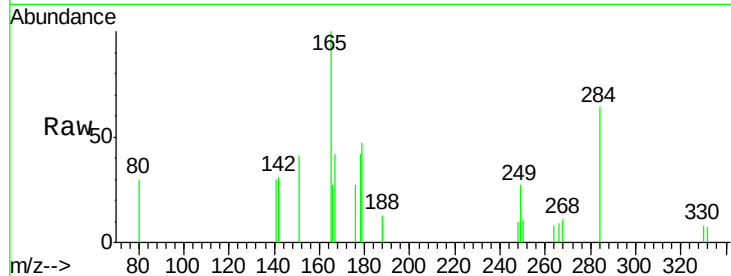
#21
Hexachlorobenzene
Concen: 0.044 ng
RT: 16.38 min Scan# 1518
Delta R.T. -0.01 min
Lab File: BN004939.D
Acq: 24 Mar 2019 15:15

Instrument :
BNA_N
ClientSampleId :
EXT-025-SW034-031919

Tgt Ion	Ratio	Lower	Upper
284	100		
142	42.1	22.6	34.0#
249	32.6	22.5	33.7

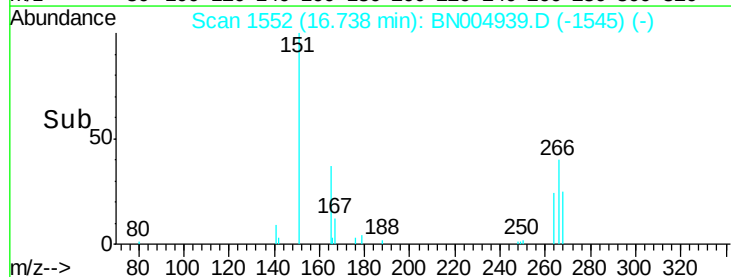
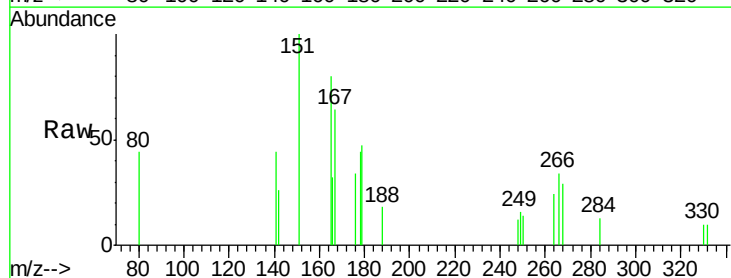
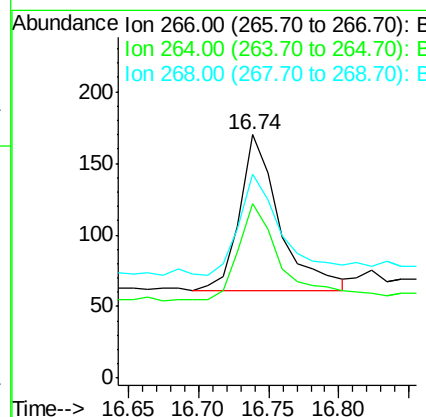
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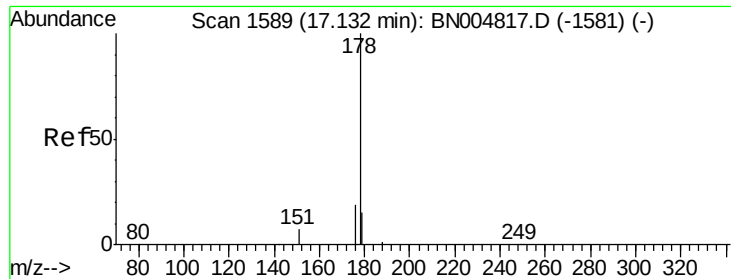
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#22
Pentachlorophenol
Concen: 0.096 ng
RT: 16.74 min Scan# 1552
Delta R.T. -0.02 min
Lab File: BN004939.D
Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
266	100		
264	71.8	53.1	79.7
268	83.5	57.7	86.5





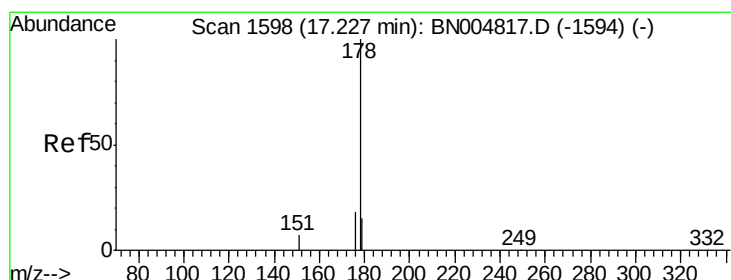
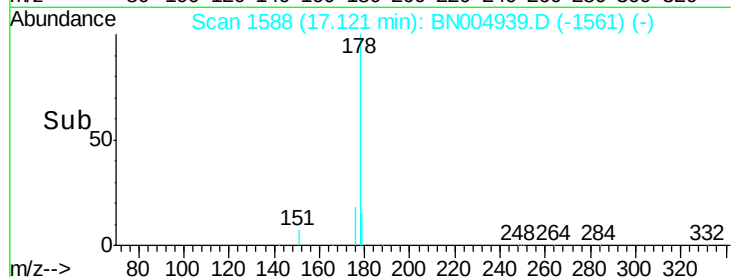
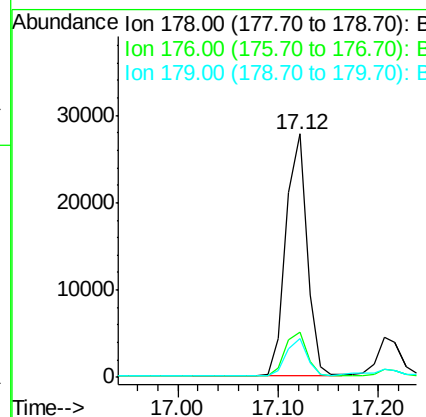
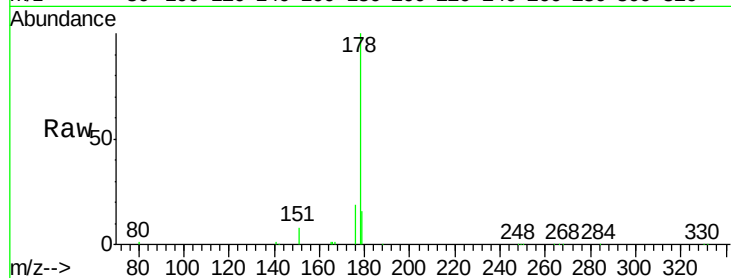
#23
Phenanthrene
Concen: 0.819 ng
RT: 17.12 min Scan# 1588
Delta R.T. -0.01 min
Lab File: BN004939.D
Acq: 24 Mar 2019 15:15

Instrument :
BNA_N
ClientSampleId :
EXT-025-SW034-031919

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	16.0	12.1	18.1

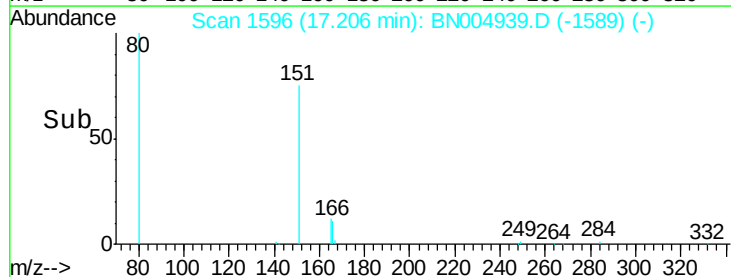
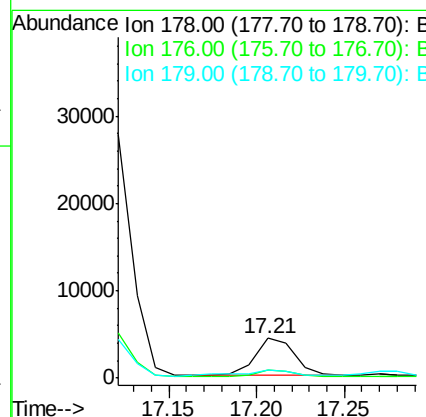
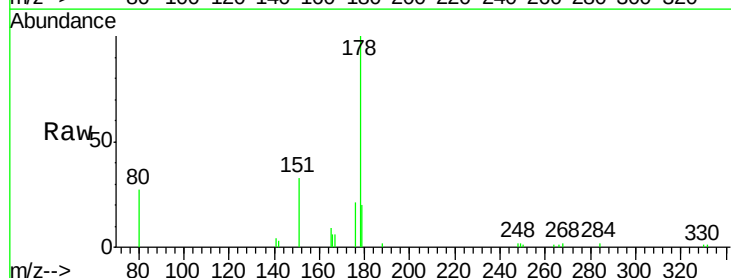
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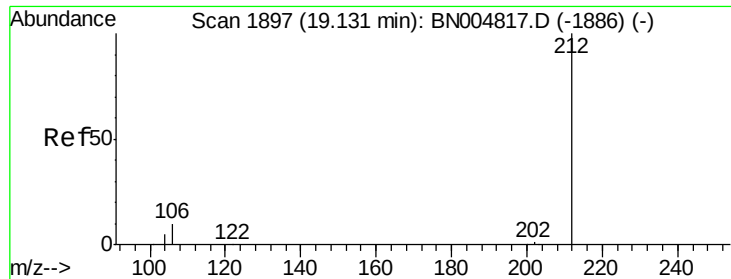
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#24
Anthracene
Concen: 0.153 ng
RT: 17.21 min Scan# 1596
Delta R.T. -0.02 min
Lab File: BN004939.D
Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.5	21.7
179	19.2	12.2	18.4#





#25

Fluoranthene-d10

Concen: 0.264 ng

RT: 19.11 min Scan# 1893

Delta R.T. -0.02 min

Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Instrument :

BNA_N

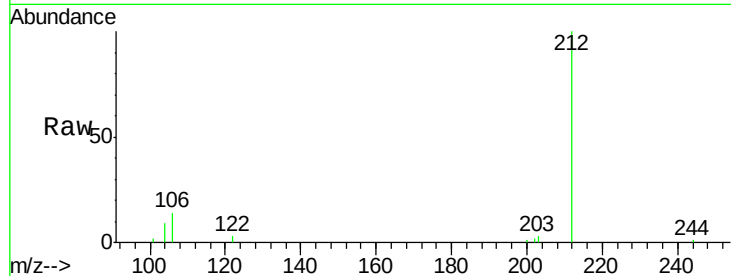
ClientSampleId :

EXT-025-SW034-031919

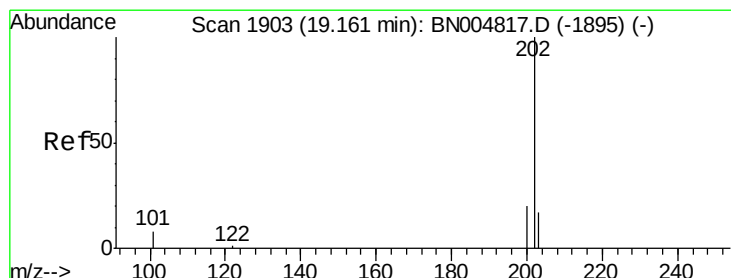
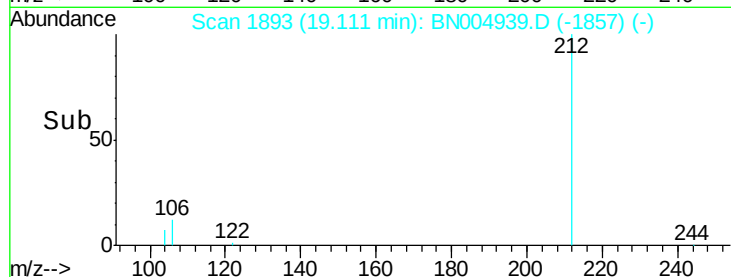
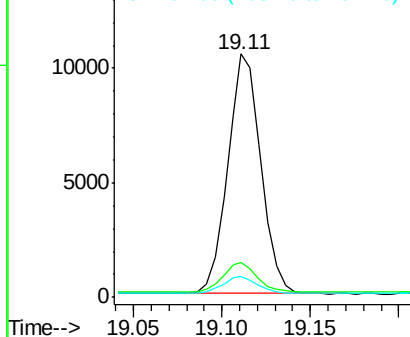
Tgt Ion:	212	Resp:	13627
Ion Ratio	Lower	Upper	
212	100		
106	12.6	8.6	13.0
104	7.2	4.7	7.1#

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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



#26

Fluoranthene

Concen: 1.239 ng

RT: 19.15 min Scan# 1900

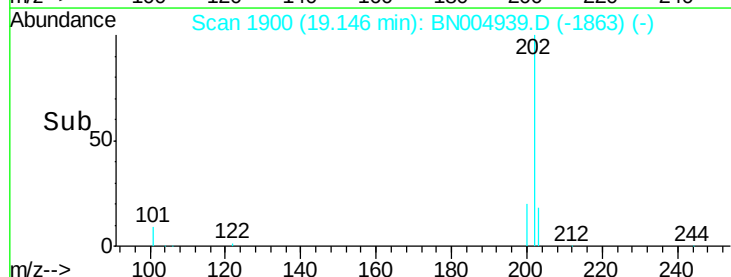
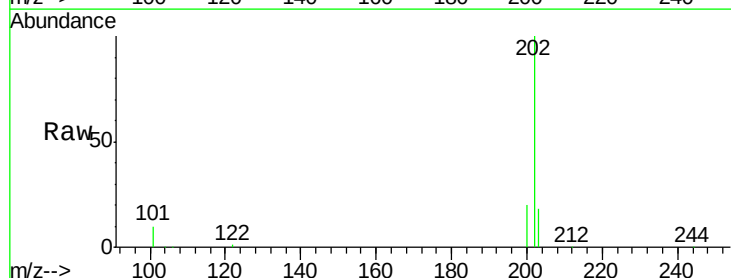
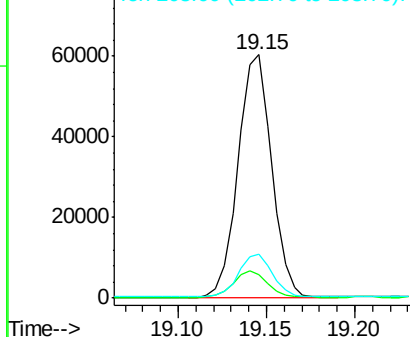
Delta R.T. -0.01 min

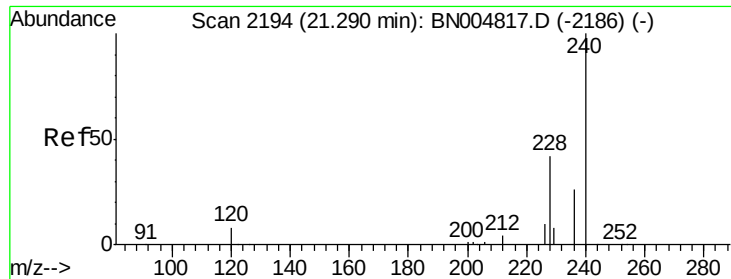
Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Tgt Ion:	202	Resp:	79364
Ion Ratio	Lower	Upper	
202	100		
101	10.8	7.5	11.3
203	17.8	13.8	20.6

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





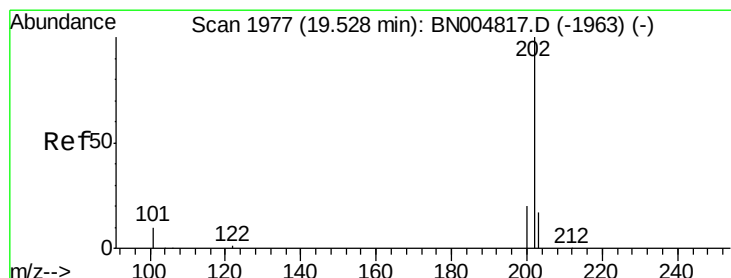
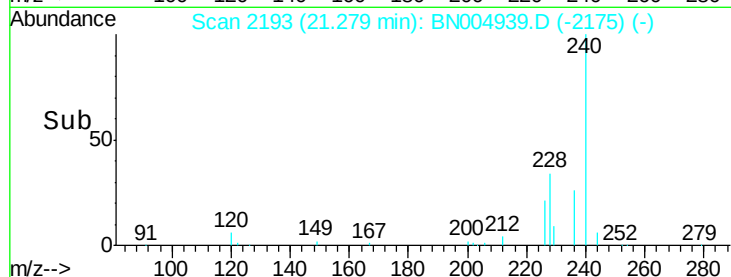
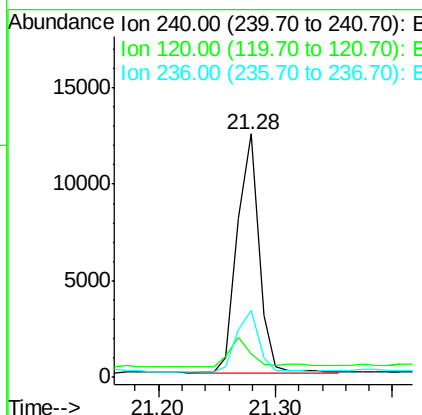
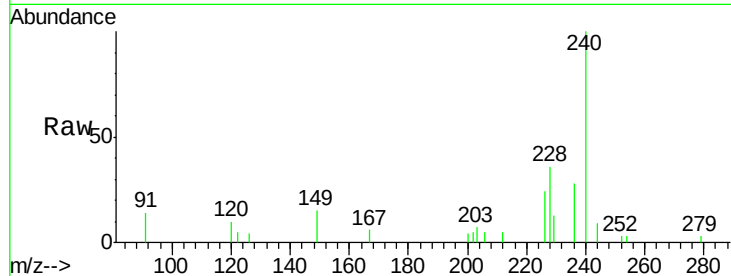
#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.28 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Instrument :
 BNA_N
 ClientSampleId :
 EXT-025-SW034-031919

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	15760		
120	9.6	7.2	10.8	
236	27.6	20.9	31.3	

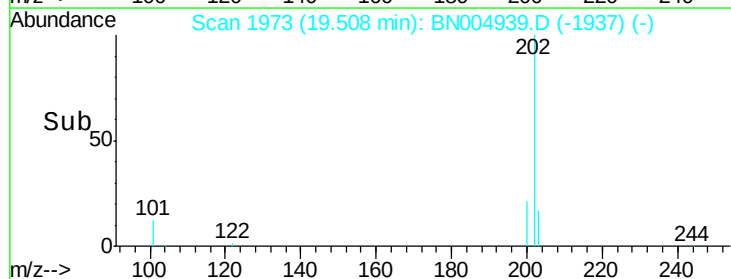
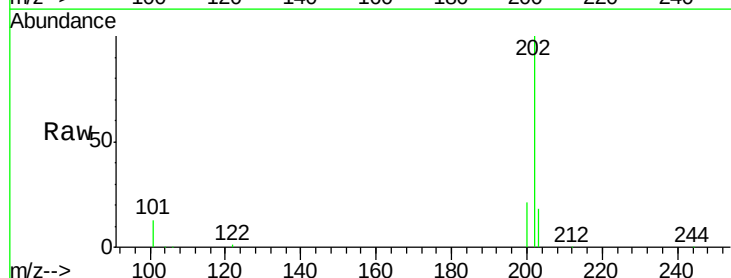
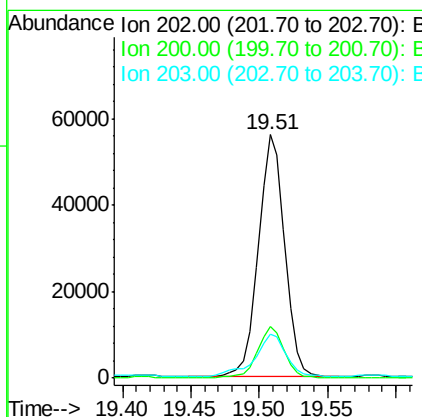
Manual Integrations
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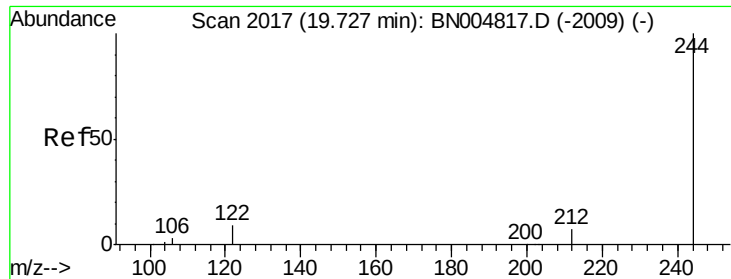
Sohil
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#28
 Pyrene
 Concen: 1.575 ng
 RT: 19.51 min Scan# 1973
 Delta R.T. -0.02 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	75666		
200	20.7	16.3	24.5	
203	20.9	14.0	21.0	





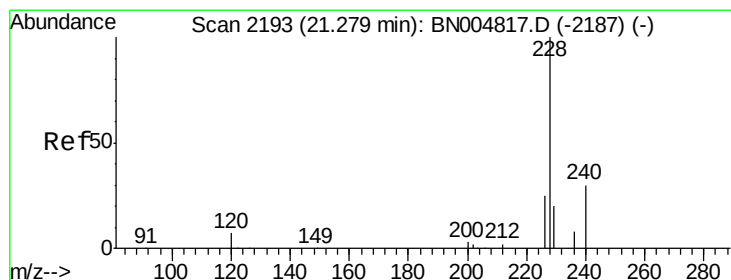
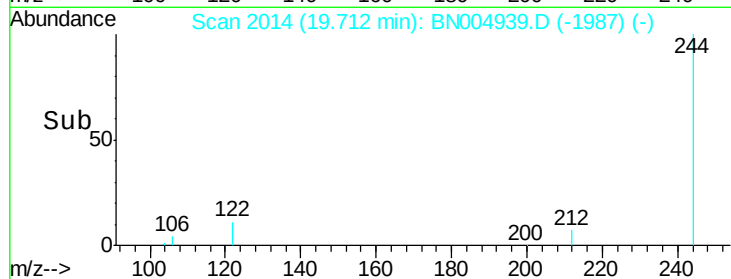
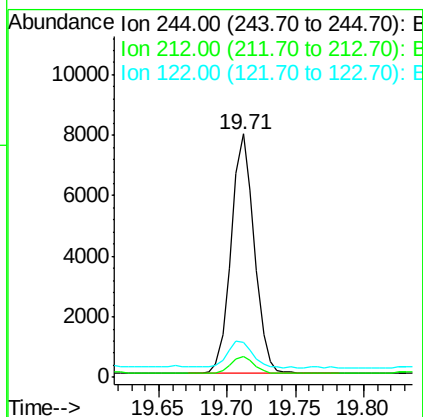
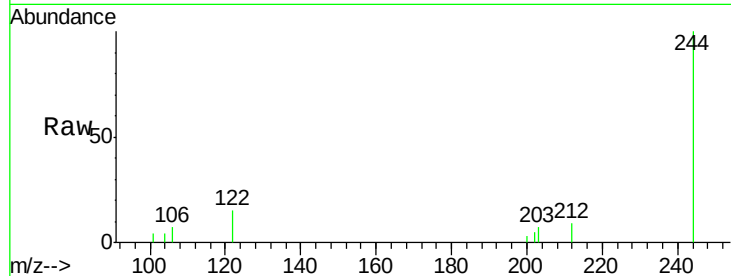
#29
 Terphenyl-d14
 Concen: 0.288 ng
 RT: 19.71 min Scan# 2014
 Delta R.T. -0.01 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Instrument :
 BNA_N
 ClientSampleId :
 EXT-025-SW034-031919

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.5	5.8	8.6
122	14.5	7.9	11.9

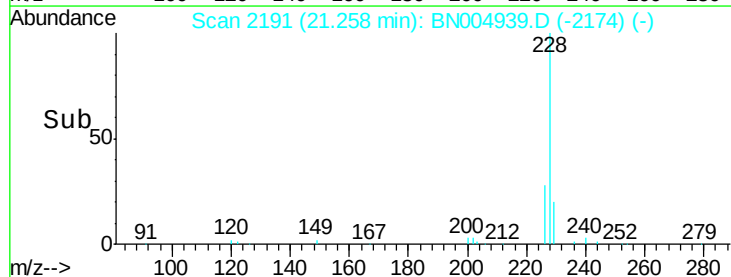
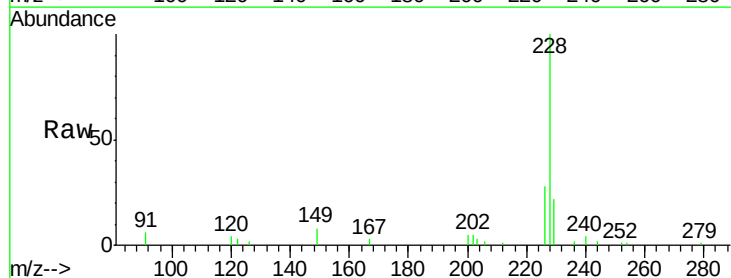
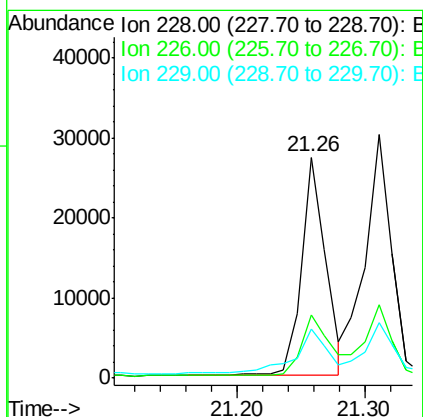
Manual Integrations
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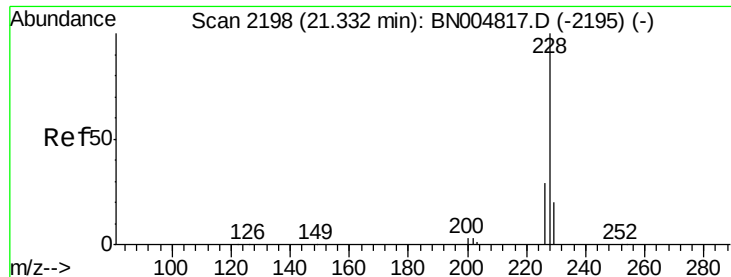
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#30
 Benzo(a)anthracene
 Concen: 0.693 ng
 RT: 21.26 min Scan# 2191
 Delta R.T. -0.02 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	20.6	31.0
229	22.4	16.2	24.4





#31

Chrysene

Concen: 0.792 ng

RT: 21.31 min Scan# 2196

Delta R.T. -0.02 min

Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Instrument :

BNA_N

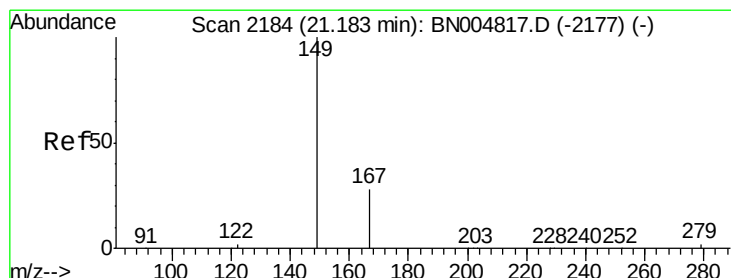
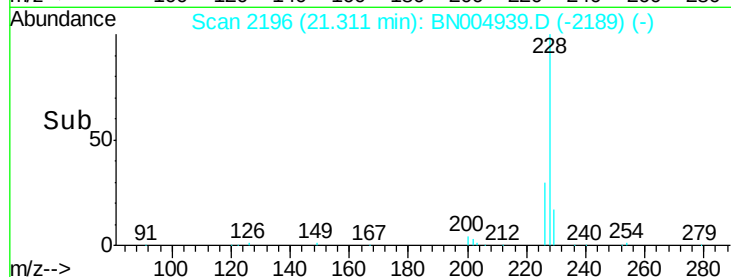
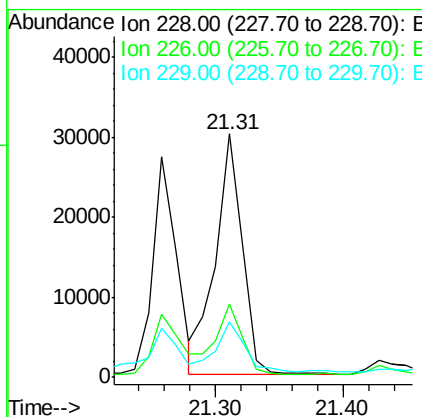
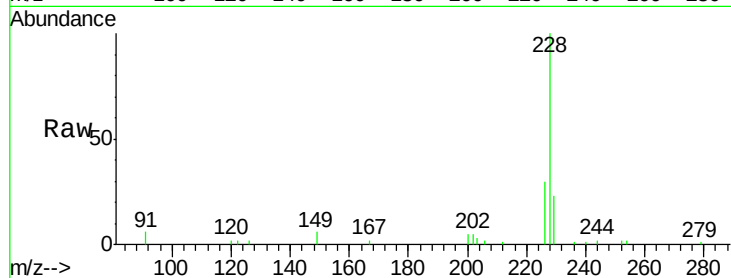
ClientSampleId :

EXT-025-SW034-031919

Tgt Ion:	228	Resp:	43121
Ion Ratio	Lower	Upper	
228	100		
226	30.4	23.0	34.6
229	22.8	16.2	24.2

Manual Integrations
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#32

Bis(2-ethylhexyl)phthalate

Concen: 5.152 ng

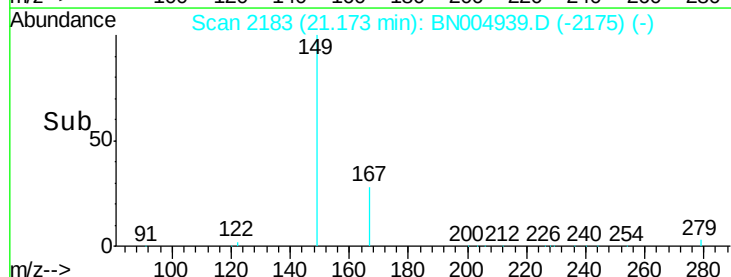
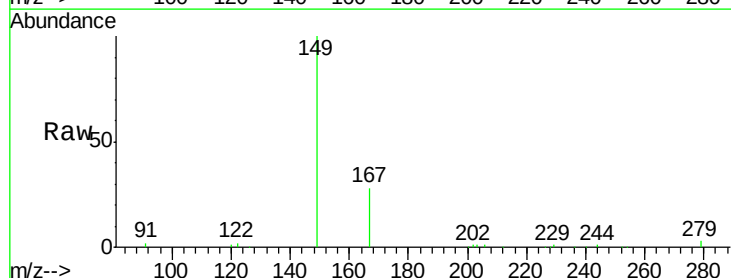
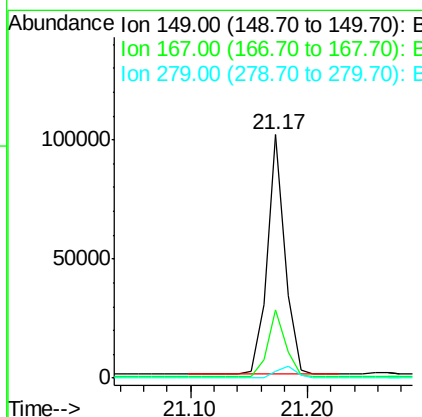
RT: 21.17 min Scan# 2183

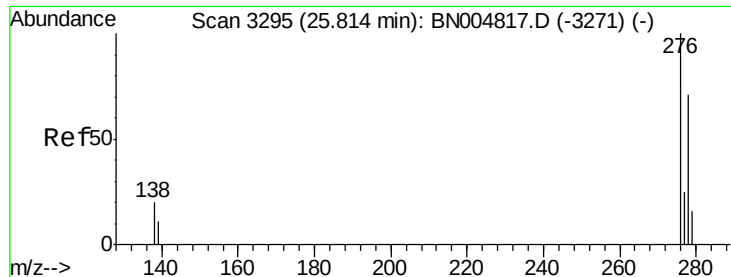
Delta R.T. -0.01 min

Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Tgt Ion:	149	Resp:	106398
Ion Ratio	Lower	Upper	
149	100		
167	28.1	23.0	34.4
279	5.2	4.6	6.8





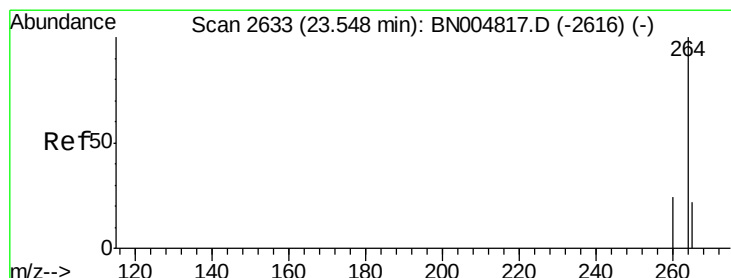
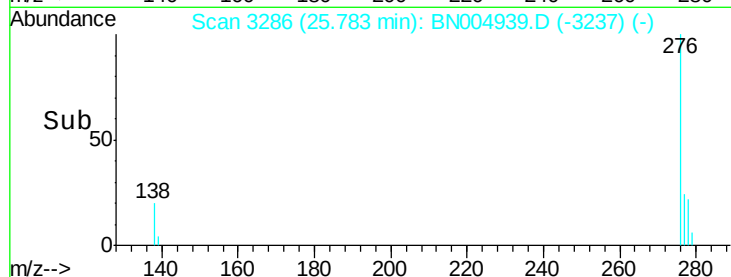
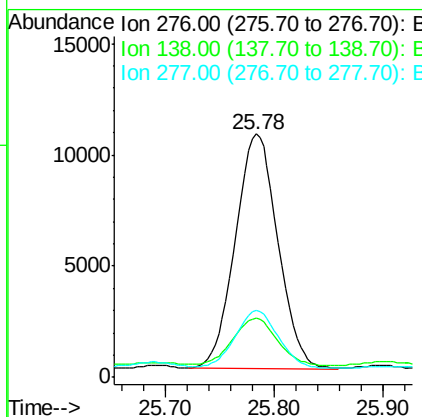
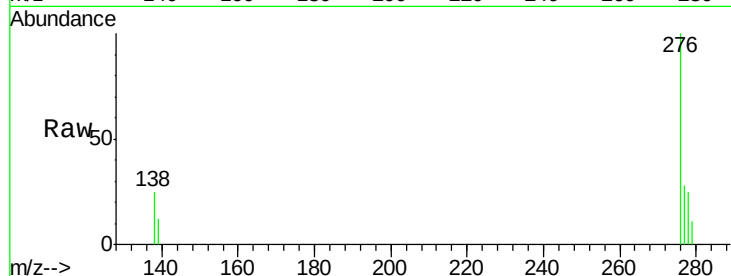
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.364 ng
 RT: 25.78 min Scan# 3286
 Delta R.T. -0.03 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Instrument :
 BNA_N
 ClientSampleId :
 EXT-025-SW034-031919

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	28693		
138	20.8	16.6	24.8	
277	24.9	20.3	30.5	

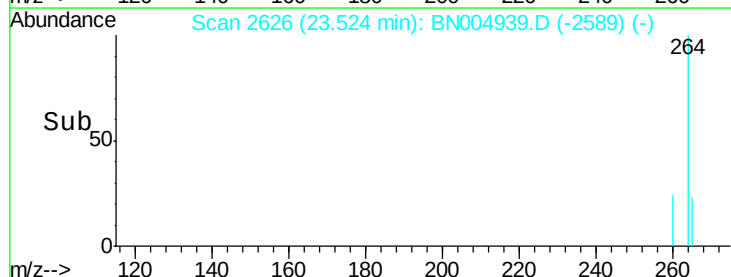
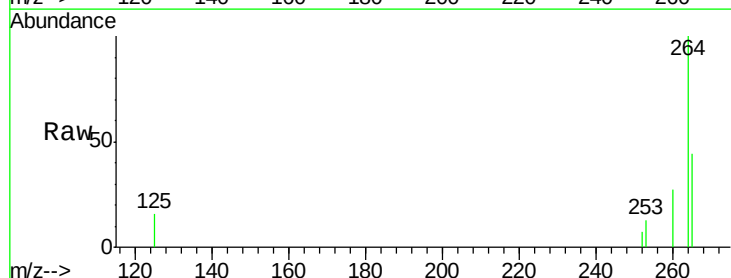
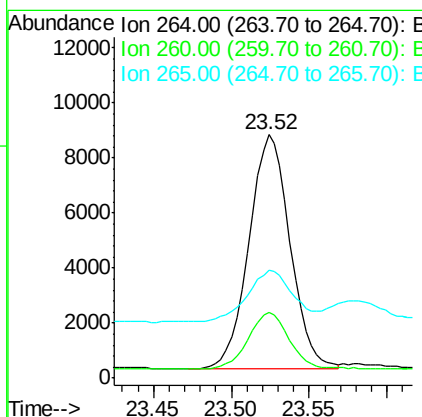
Manual Integrations
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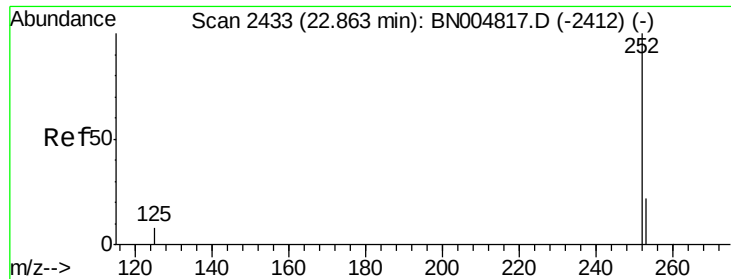
Sohil
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#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.52 min Scan# 2626
 Delta R.T. -0.02 min
 Lab File: BN004939.D
 Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	15540		
260	26.7	19.5	29.3	
265	44.2	23.1	34.7	





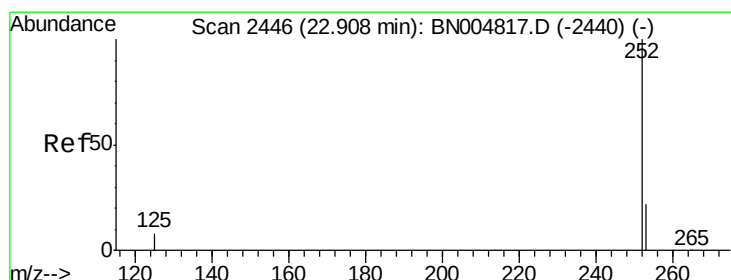
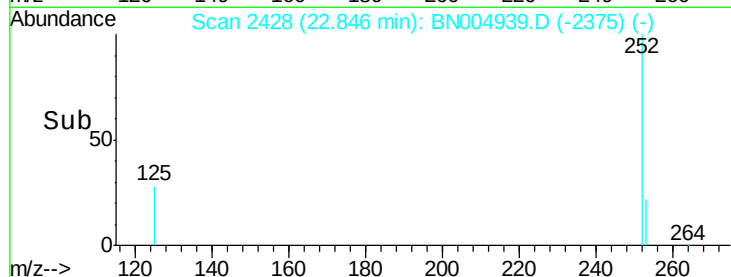
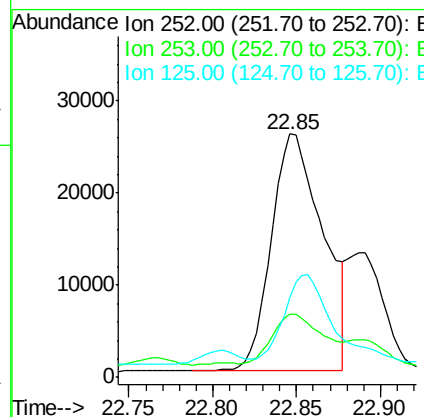
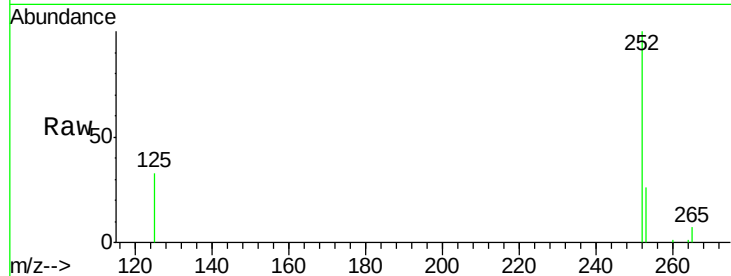
#35
Benzo(b)fluoranthene
Concen: 0.984 ng
RT: 22.85 min Scan# 2428
Delta R.T. -0.02 min
Lab File: BN004939.D
Acq: 24 Mar 2019 15:15

Instrument :
BNA_N
ClientSampleId :
EXT-025-SW034-031919

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.0	28.4
125	32.9	7.4	11.2#

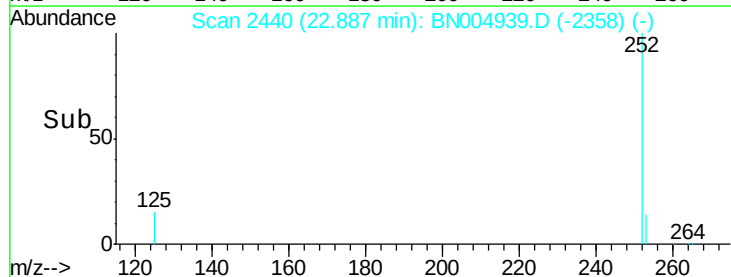
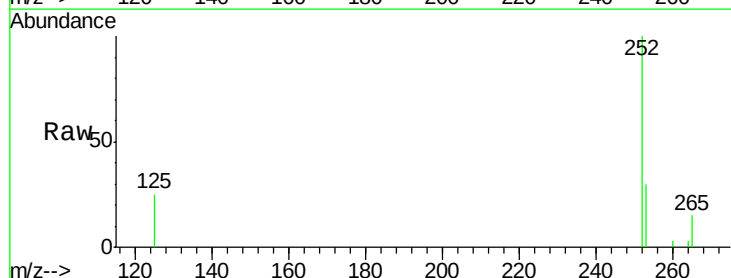
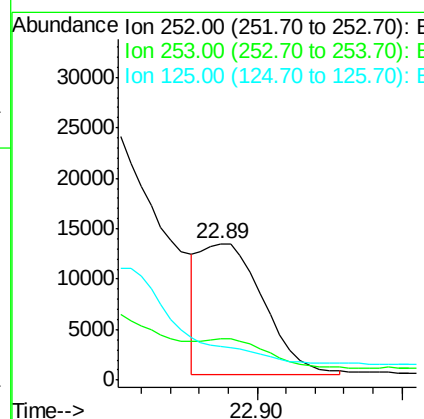
Manual Integrations
APPROVED

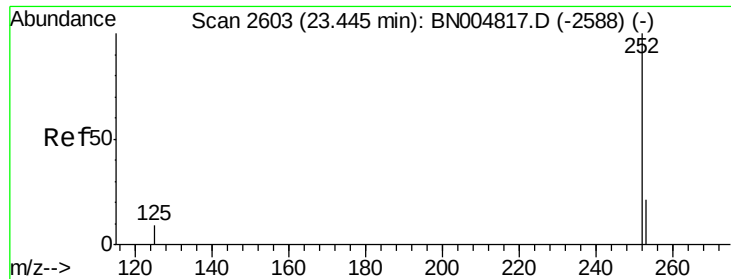
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#36
Benzo(k)fluoranthene
Concen: 0.356 ng m
RT: 22.89 min Scan# 2440
Delta R.T. -0.02 min
Lab File: BN004939.D
Acq: 24 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.3	19.3	28.9#
125	24.9	7.4	11.0#





#37

Benzo(a)pyrene

Concen: 0.692 ng

RT: 23.42 min Scan# 2597

Delta R.T. -0.02 min

Lab File: BN004939.D

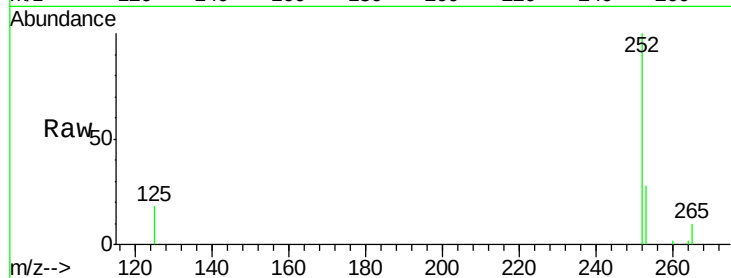
Acq: 24 Mar 2019 15:15

Instrument :

BNA_N

ClientSampleId :

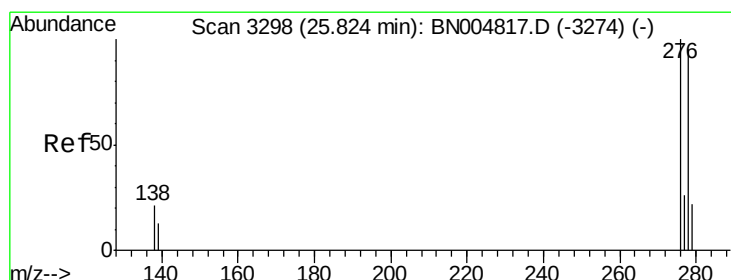
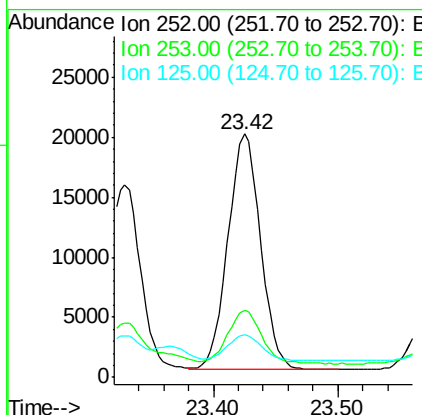
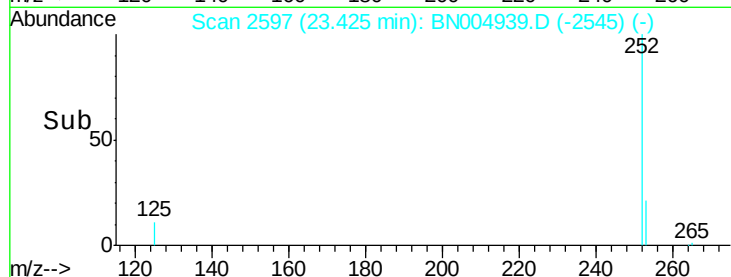
EXT-025-SW034-031919



Tgt Ion:	252	Resp:	35697
Ion Ratio	Lower	Upper	
252	100		
253	27.5	19.7	29.5
125	17.6	8.3	12.5#

Manual Integrations
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#38

Dibenzo(a,h)anthracene

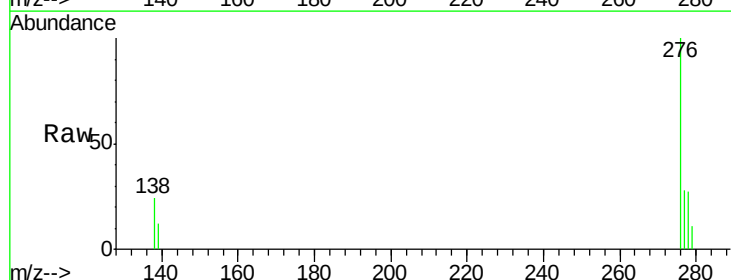
Concen: 0.139 ng

RT: 25.79 min Scan# 3288

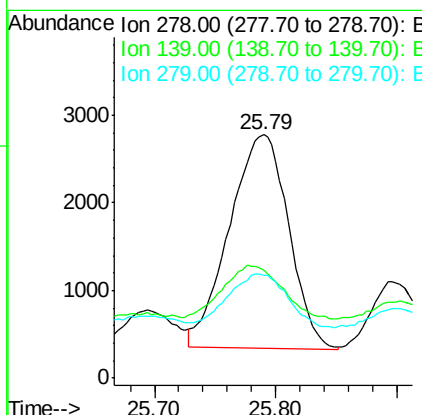
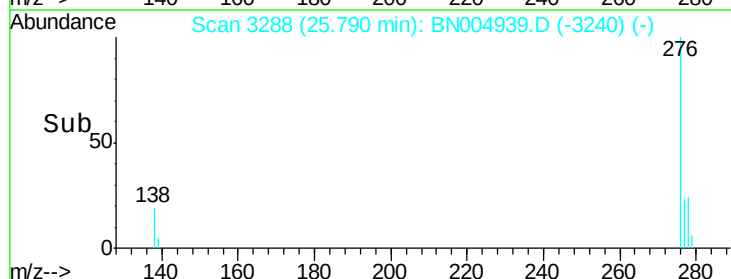
Delta R.T. -0.03 min

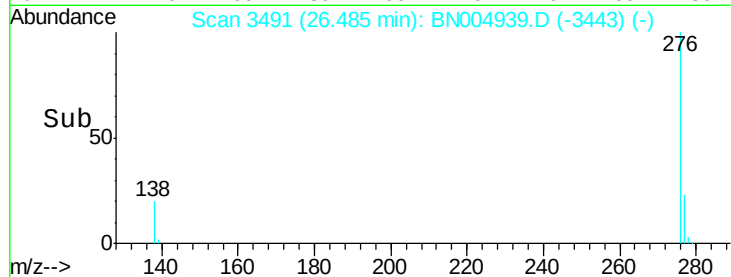
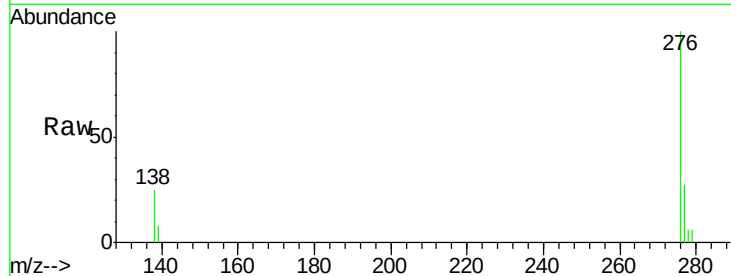
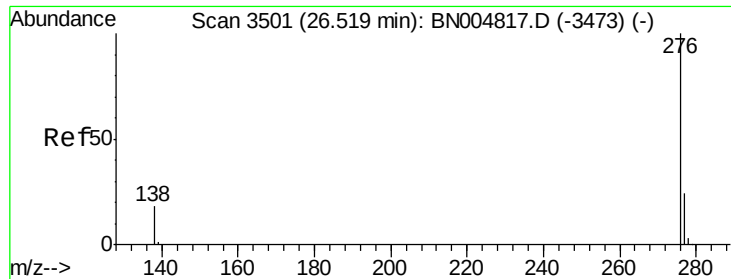
Lab File: BN004939.D

Acq: 24 Mar 2019 15:15



Tgt Ion:	278	Resp:	8300
Ion Ratio	Lower	Upper	
278	100		
139	44.4	11.7	17.5#
279	42.2	19.9	29.9#





#39

Benzo(g,h,i)perylene

Concen: 0.479 ng

RT: 26.48 min Scan# 3491

Delta R.T. -0.03 min

Lab File: BN004939.D

Acq: 24 Mar 2019 15:15

Instrument :

BNA_N

ClientSampleId :

EXT-025-SW034-031919

Tgt	Ion	Ratio	Resp:	Lower	Upper
276	100		29137		
277	27.0		19.7	29.5	
138	24.9		14.6	22.0	

Manual Integrations
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