

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030920\
 Data File : BN010149.D
 Acq On : 09 Mar 2020 16:39
 Operator : CG/JU
 Sample : L1798-21
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Manual Integrations
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 3/10/2020 2:45:33 PM

Quant Time: Mar 10 10:51:24 2020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN021920.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Feb 19 15:57:43 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.38	152	858	0.40	ng	-0.04
7) Naphthalene-d8	10.11	136	3286	0.40	ng	-0.06
13) Acenaphthene-d10	13.99	164	1694	0.40	ng	-0.07
19) Phenanthrene-d10	16.76	188	4596	0.40	ng	-0.05
27) Chrysene-d12	20.99	240	3877	0.40	ng	-0.04
34) Perylene-d12	23.10	264	1433	0.40	ng	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	5.04	112	864	0.45	ng	-0.05
5) Phenol-d6	6.67	99	696	0.30	ng	0.02
8) Nitrobenzene-d5	8.58	82	932m	0.34	ng	-0.01
11) 2-Methylnaphthalene-d10	11.74	152	1711	0.27	ng	-0.04
14) 2,4,6-Tribromophenol	15.55	330	329	0.50	ng	-0.03
15) 2-Fluorobiphenyl	12.63	172	2633	0.41	ng	-0.06
25) Fluoranthene-d10	18.81	212	3954	0.25	ng	-0.05
29) Terphenyl-d14	19.43	244	3878	0.42	ng	-0.04

Target Compounds

						Qvalue
3) n-Nitrosodimethylamine	3.43	42	1067	0.740	ng	# 14
9) Naphthalene	10.15	128	32943	3.676	ng	94
16) Acenaphthylene	13.71	152	19033	2.636	ng	100
17) Acenaphthene	14.06	154	75803	14.927	ng	99
18) Fluorene	15.07	166	45895	6.849	ng	99
23) Phenanthrene	16.80	178	32963	2.410	ng	99
24) Anthracene	16.91	178	23927	2.069	ng	100
26) Fluoranthene	18.84	202	24246	1.480	ng	99
28) Pyrene	19.21	202	28824	1.958	ng	100
30) Benzo(a)anthracene	20.97	228	18847	1.465	ng	98
31) Chrysene	21.03	228	43762	2.940	ng	98
33) Indeno(1,2,3-cd)pyrene	25.12	276	17306	1.116	ng	# 93
35) Benzo(b)fluoranthene	22.48	252	9886	1.887	ng	# 90
36) Benzo(k)fluoranthene	22.52	252	38434m	6.738	ng	
37) Benzo(a)pyrene	23.00	252	28523	5.967	ng	# 81
38) Dibenzo(a,h)anthracene	25.12	278	26981	5.732	ng	# 90
39) Benzo(a,h,i)perylene	25.73	276	33533	6.688	ng	95

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

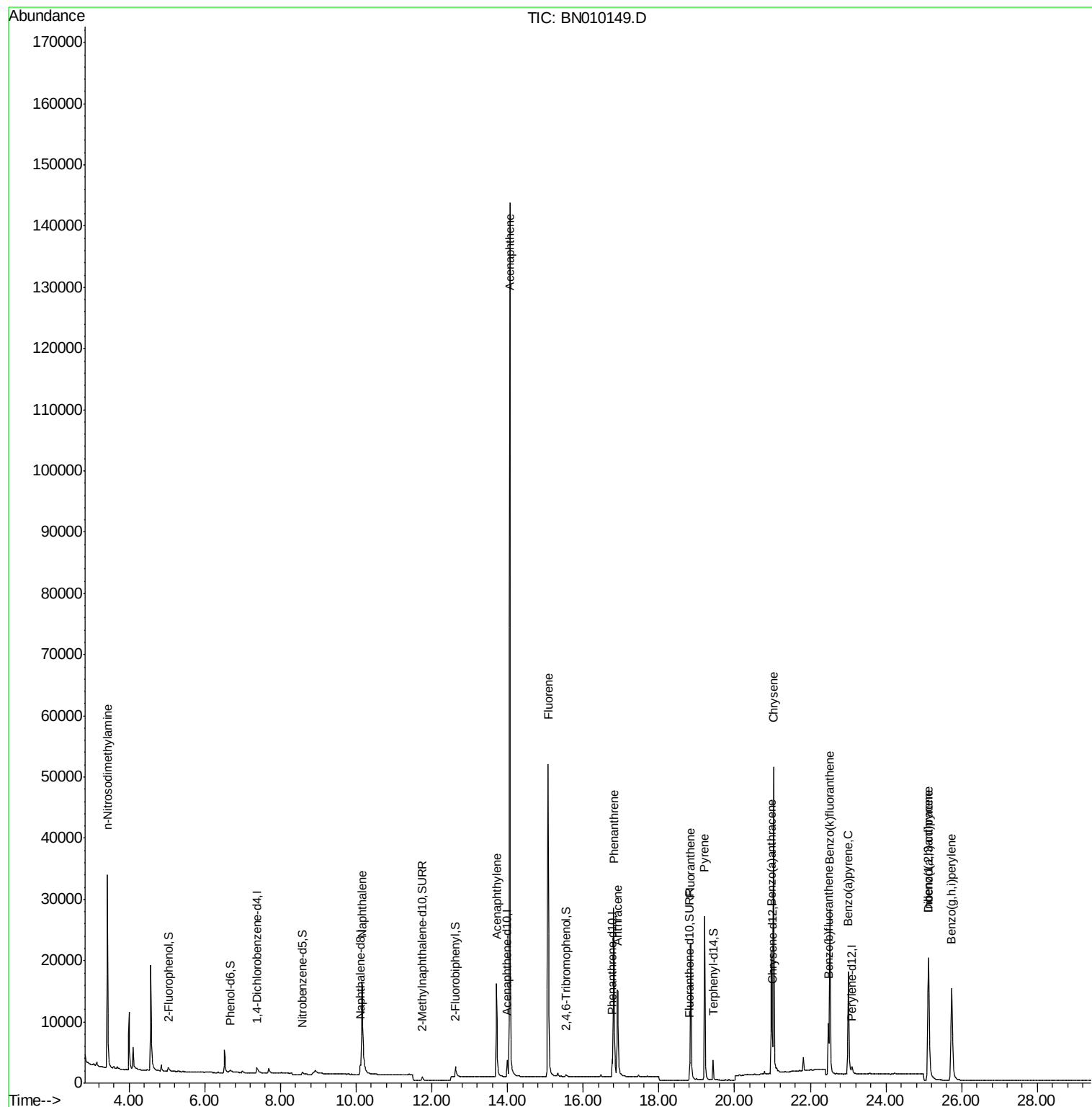
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030920\
Data File : BN010149.D
Acq On : 09 Mar 2020 16:39
Operator : CG/JU
Sample : L1798-21
Misc :
ALS Vial : 8 Sample Multiplier: 1

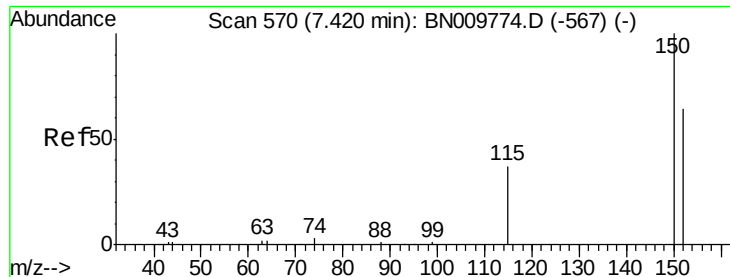
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

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#1

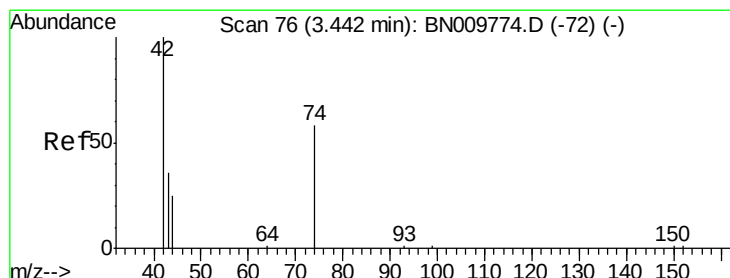
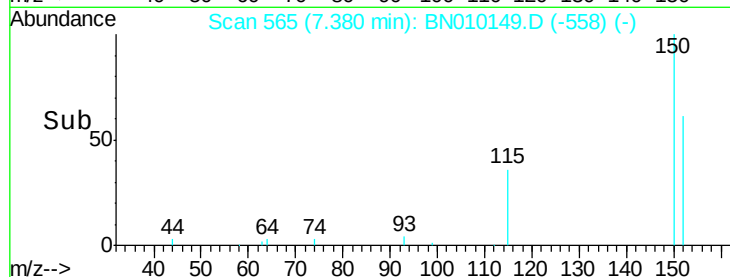
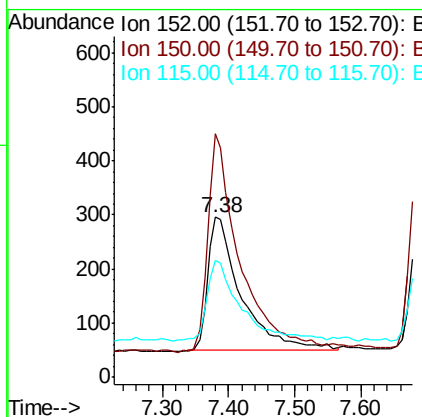
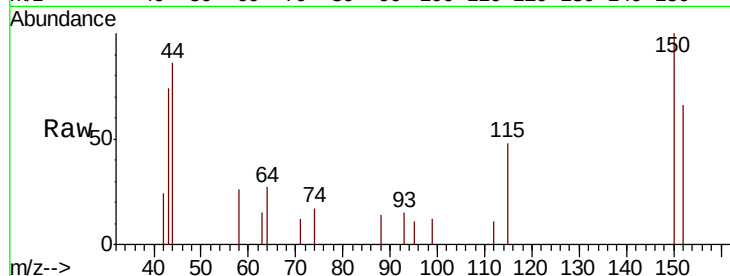
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.38 min Scan# 565
Delta R.T. -0.04 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.0	120.6	181.0
115	72.6	51.2	76.8

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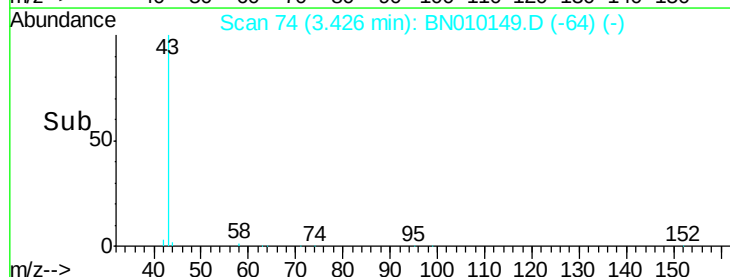
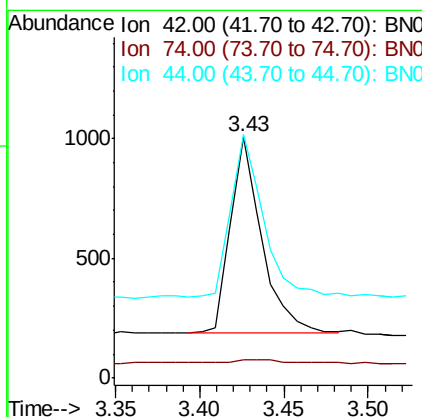
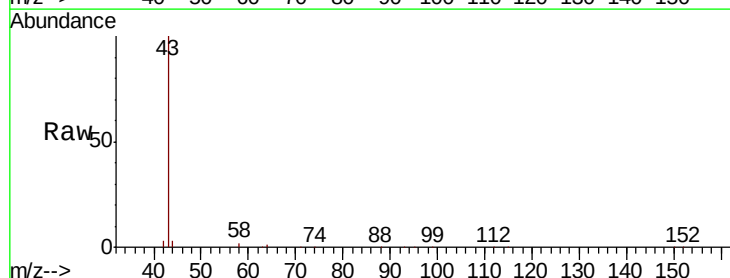
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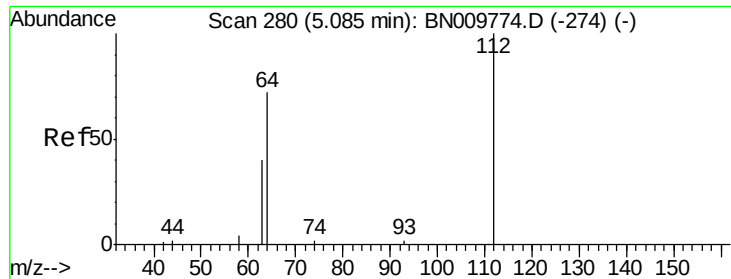


#3

n-Nitrosodimethylamine
Concen: 0.740 ng
RT: 3.43 min Scan# 74
Delta R.T. -0.02 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Tgt Ion	Ratio	Lower	Upper
42	100		
74	3.5	51.2	76.8#
44	84.3	2.6	4.0#





#4

2-Fluorophenol

Concen: 0.453 ng

RT: 5.04 min Scan# 274

Delta R.T. -0.05 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Instrument :

BNA_N

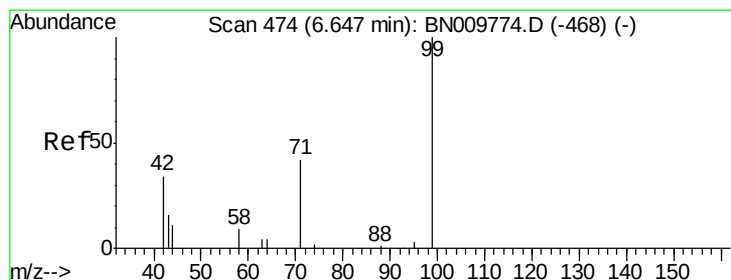
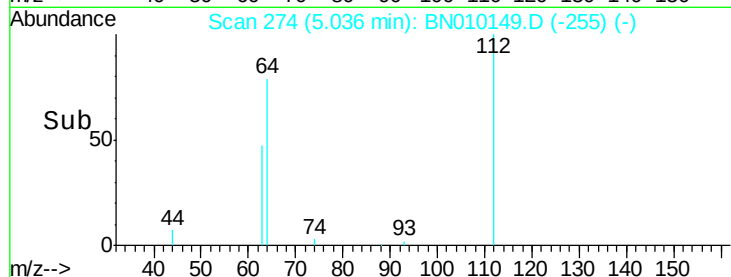
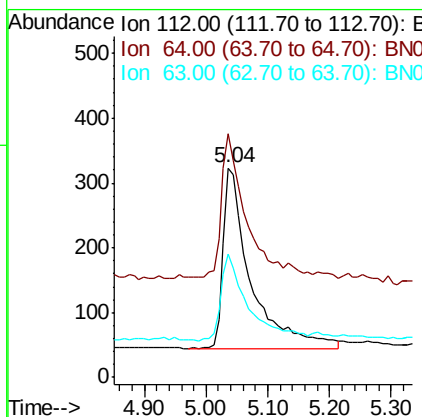
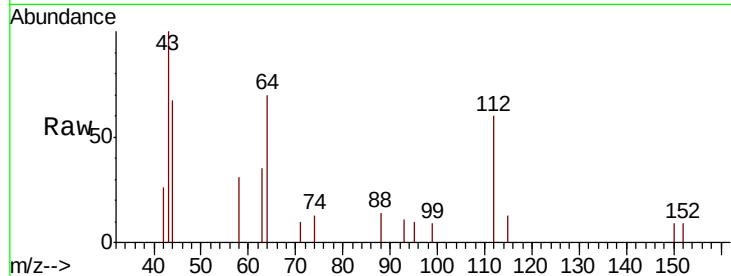
ClientSampled :

RR-PAH-WP

Tot Ion:	112	Resp:	864
Ion	Ratio	Lower	Upper
112	100		
64	72.0	65.8	98.6
63	47.6	38.7	58.1

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#5

Phenol-d6

Concen: 0.300 ng

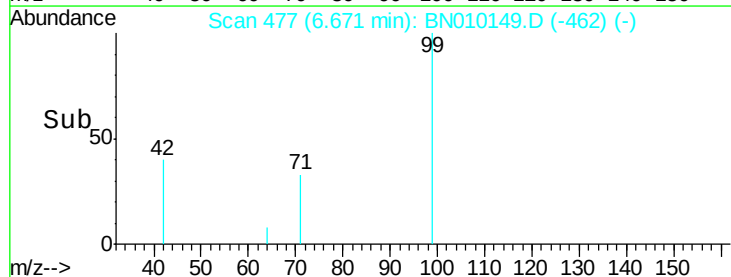
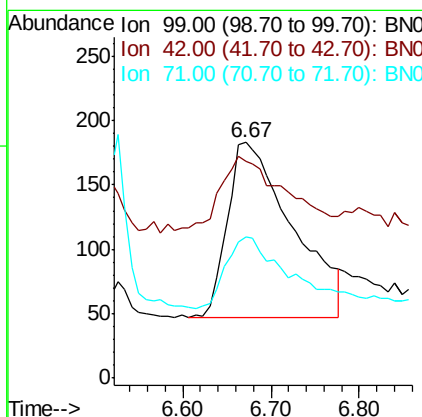
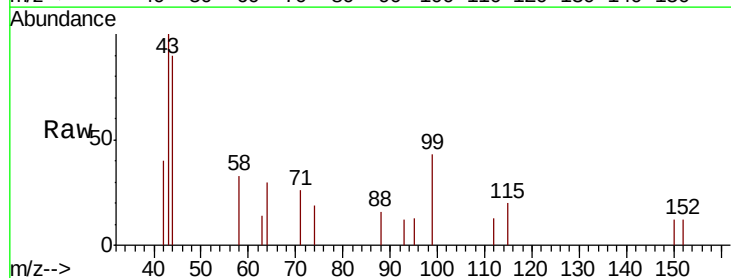
RT: 6.67 min Scan# 477

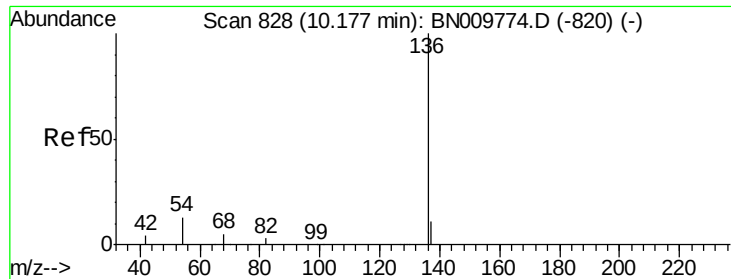
Delta R.T. 0.02 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Tgt Ion:	99	Resp:	696
Ion	Ratio	Lower	Upper
99	100		
42	40.8	30.8	46.2
71	39.1	34.9	52.3





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.11 min Scan# 823

Delta R.T. -0.06 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Instrument :

BNA_N

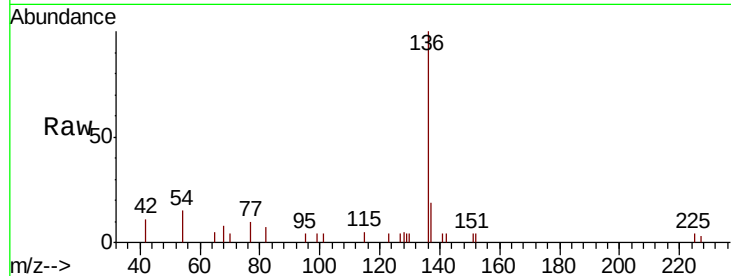
ClientSampleId :

RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
136	100		
137	19.3	11.3	16.9#
54	14.7	13.4	20.2
68	7.9	7.0	10.4

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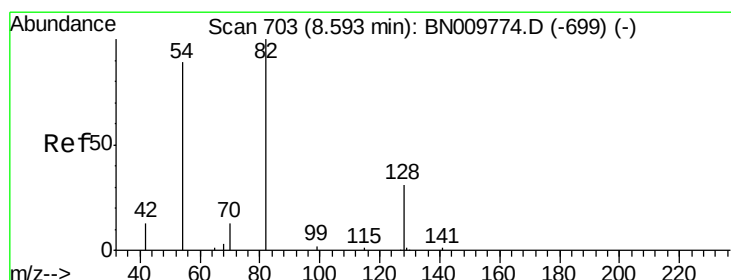
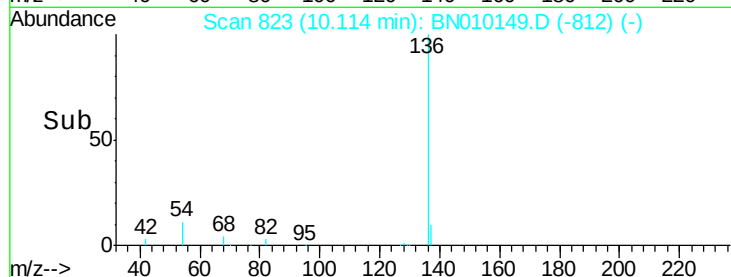
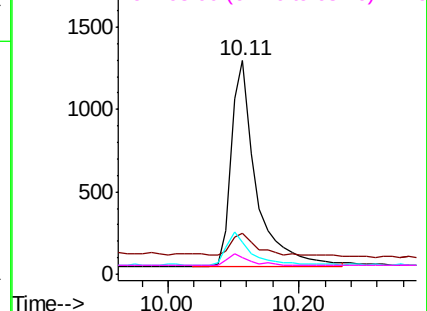


Abundance Ion 136.00 (135.70 to 136.70): E

2000 Ion 137.00 (136.70 to 137.70): E

1500 Ion 54.00 (53.70 to 54.70): BNC

1000 Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.341 ng m

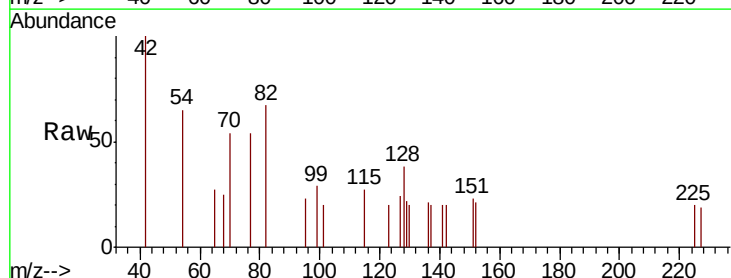
RT: 8.58 min Scan# 702

Delta R.T. -0.01 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

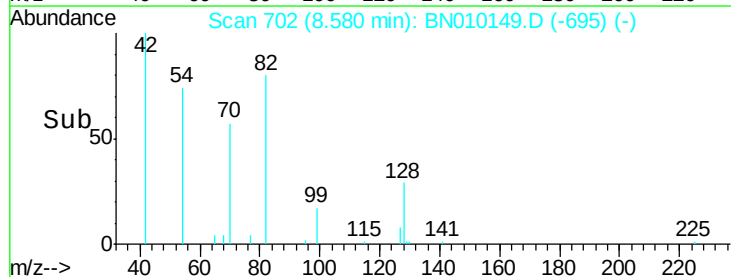
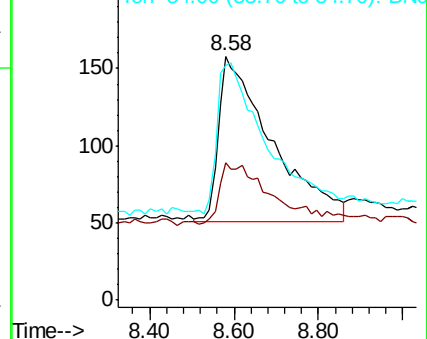
Tgt Ion	Ratio	Lower	Upper
82	100		
128	56.3	32.5	48.7#
54	96.2	73.5	110.3

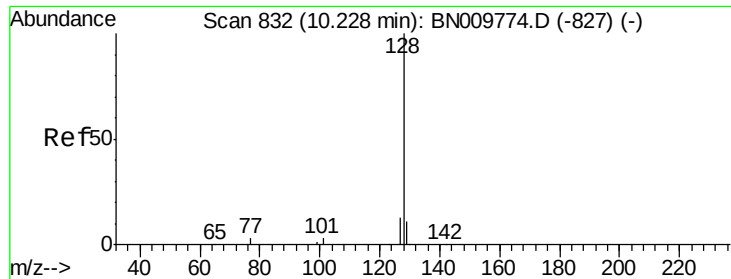


Abundance Ion 82.00 (81.70 to 82.70): BNC

200 Ion 128.00 (127.70 to 128.70): E

150 Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 3.676 ng

RT: 10.15 min Scan# 826

Delta R.T. -0.08 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Instrument :

BNA_N

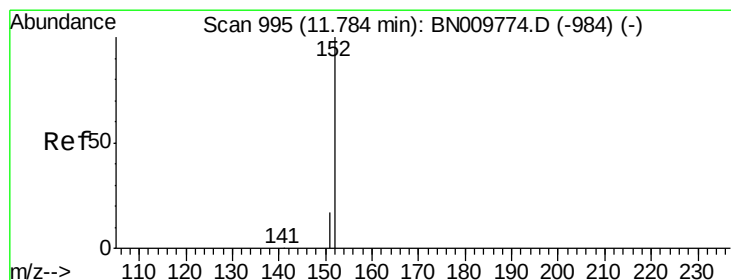
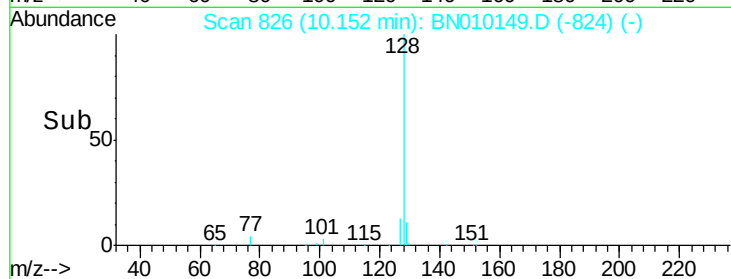
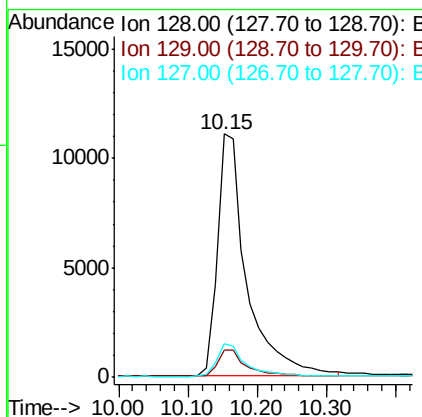
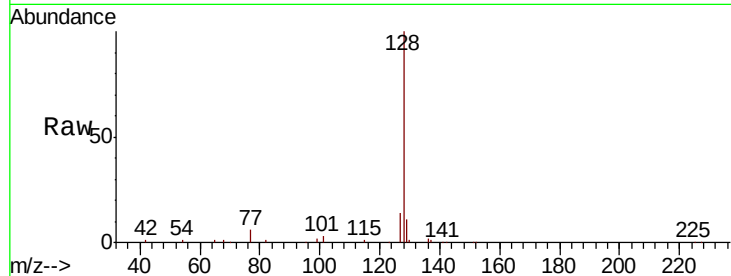
ClientSampleId :

RR-PAH-WP

Tot Ion:	128	Resp:	32943
Ion	Ratio	Lower	Upper
128	100		
129	11.2	11.1	16.7
127	13.8	12.6	19.0

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#11

2-Methylnaphthalene-d10

Concen: 0.269 ng

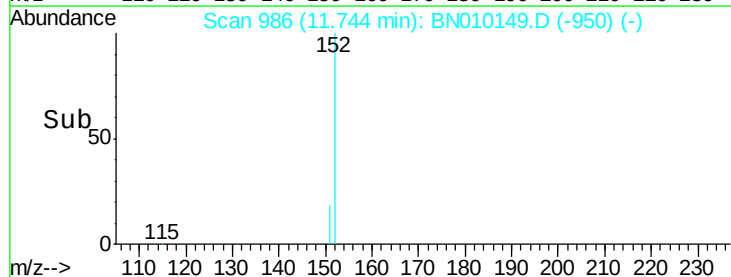
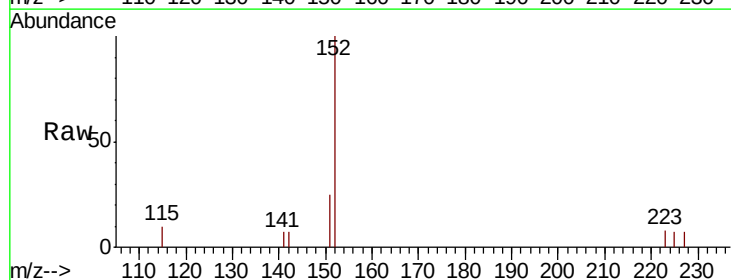
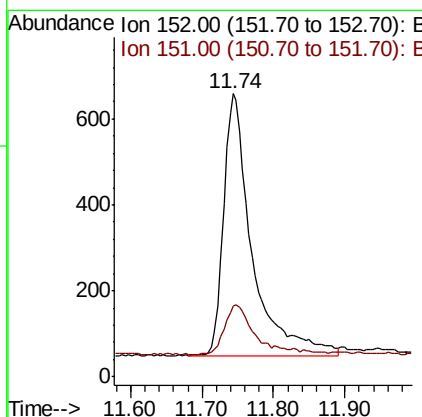
RT: 11.74 min Scan# 986

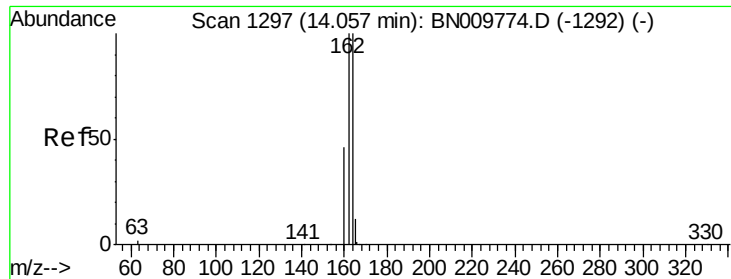
Delta R.T. -0.04 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Tgt Ion:	152	Resp:	1711
Ion	Ratio	Lower	Upper
152	100		
151	18.8	15.1	22.7





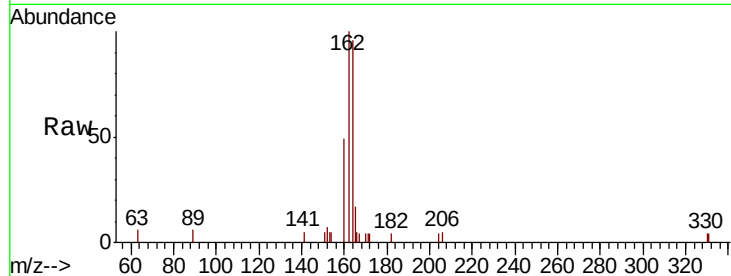
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 13.99 min Scan# 1291
 Delta R.T. -0.07 min
 Lab File: BN010149.D
 Acq: 09 Mar 2020 16:39

Instrument :
 BNA_N
 ClientSampled :
 RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
164	100		
162	104.3	79.9	119.9
160	51.2	38.2	57.2

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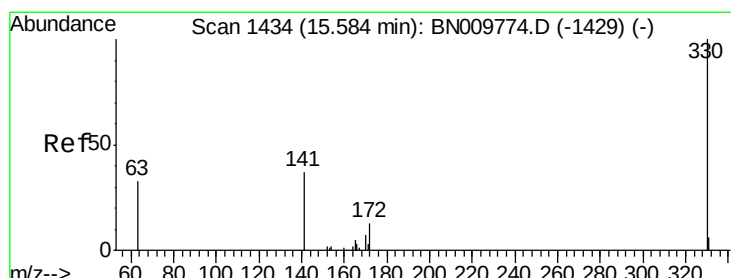
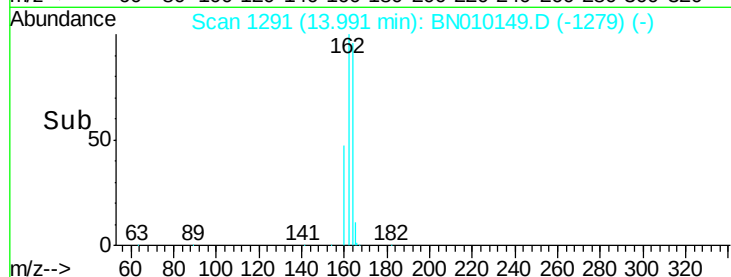
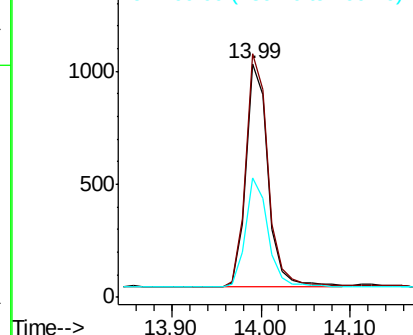


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14
 2,4,6-Tribromophenol
 Concen: 0.504 ng
 RT: 15.55 min Scan# 1431
 Delta R.T. -0.03 min
 Lab File: BN010149.D
 Acq: 09 Mar 2020 16:39

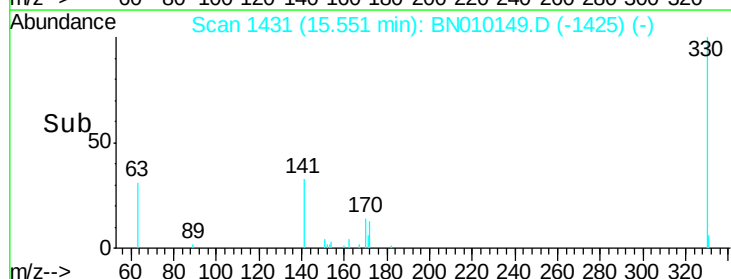
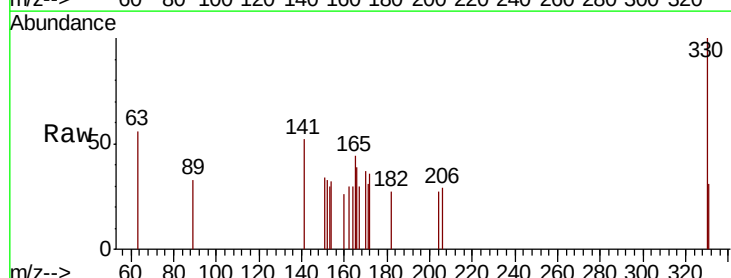
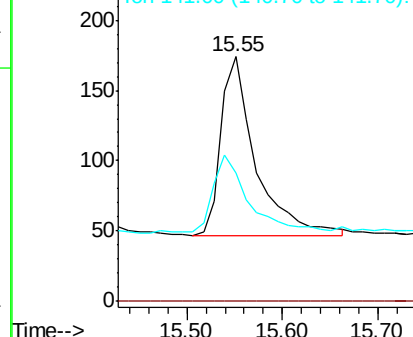
Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	43.8	36.8	55.2

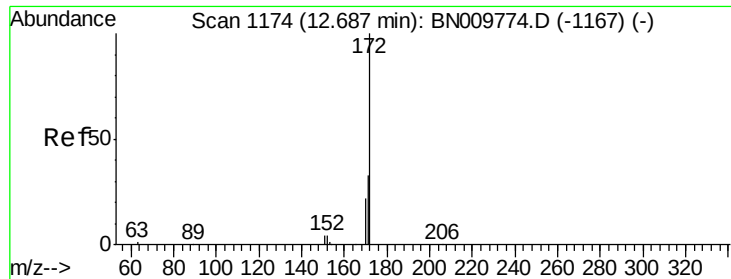
Abundance

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





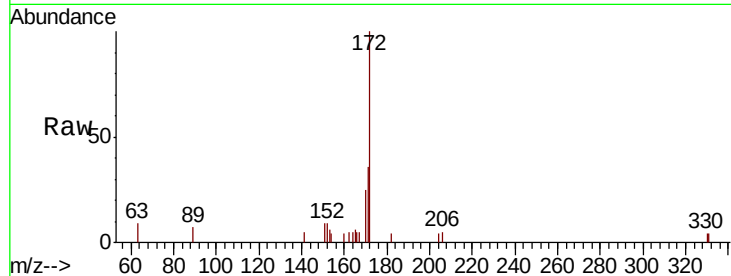
#15
2-Fluorobiphenyl
Concen: 0.412 ng
RT: 12.63 min Scan# 1169
Delta R.T. -0.06 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Instrument :
BNA_N
ClientSampled :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	25.1	20.1	30.1

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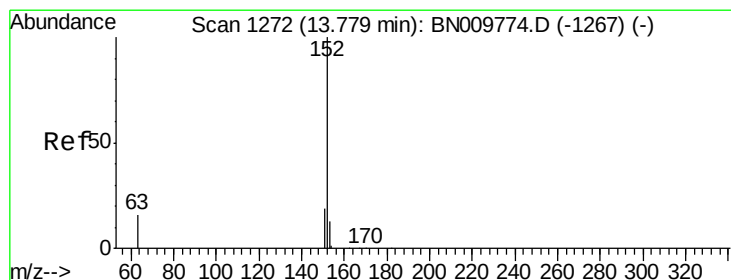
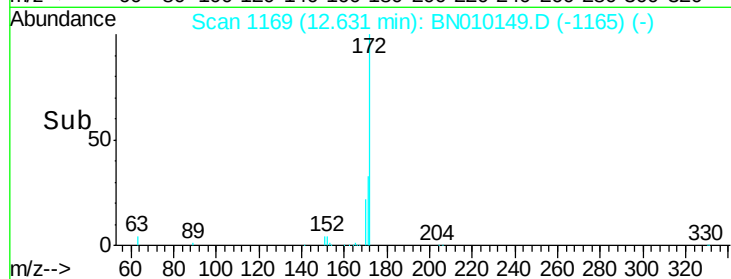
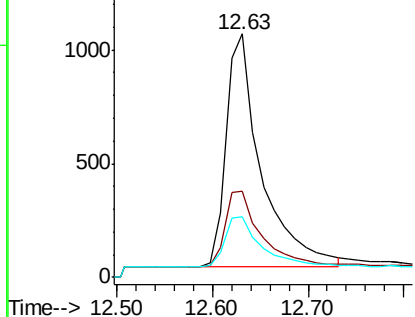


Abundance

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: 2.636 ng
RT: 13.71 min Scan# 1266
Delta R.T. -0.07 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

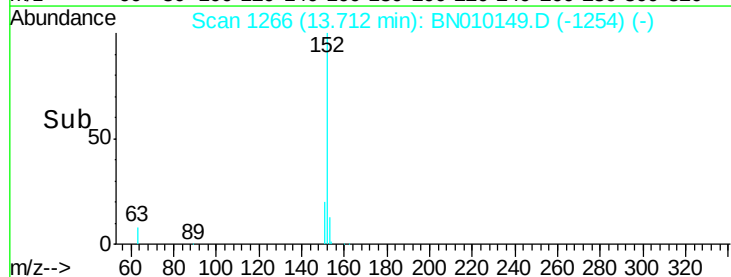
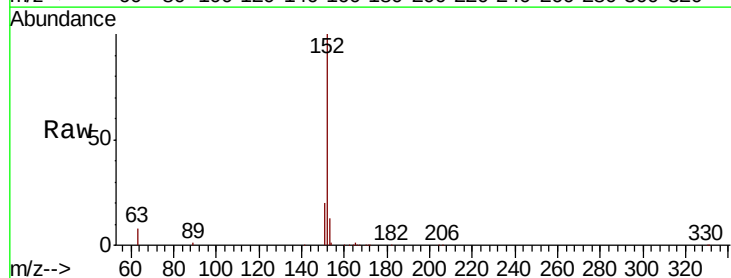
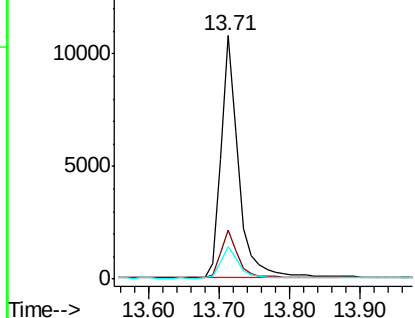
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.8	23.6
153	13.2	10.2	15.4

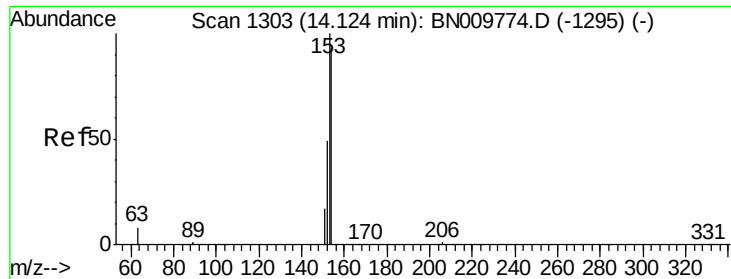
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 14.927 ng

RT: 14.06 min Scan# 1297

Delta R.T. -0.07 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Instrument :

BNA_N

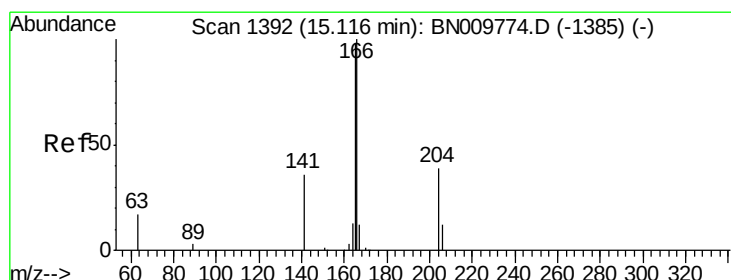
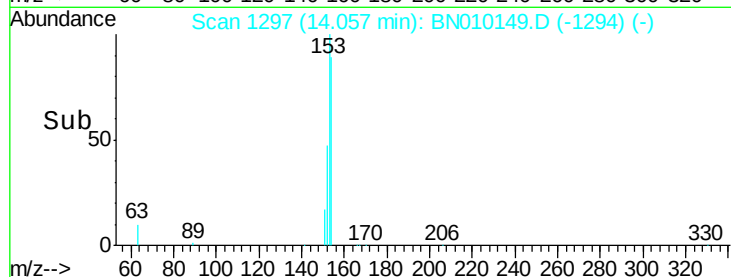
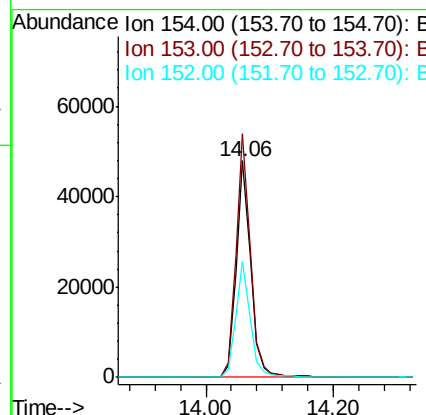
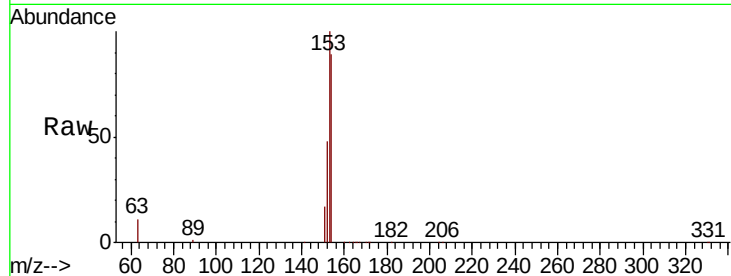
ClientSampleId :

RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
154	100		
153	111.9	88.9	133.3
152	53.5	44.2	66.2

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#18

Fluorene

Concen: 6.849 ng

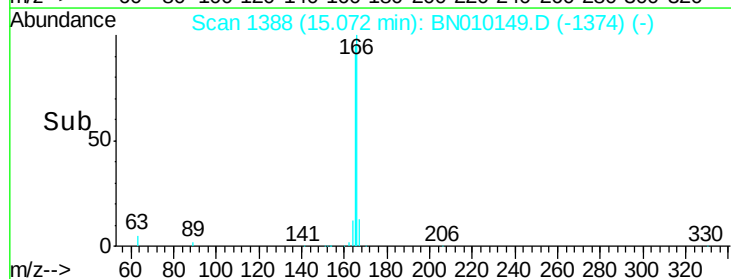
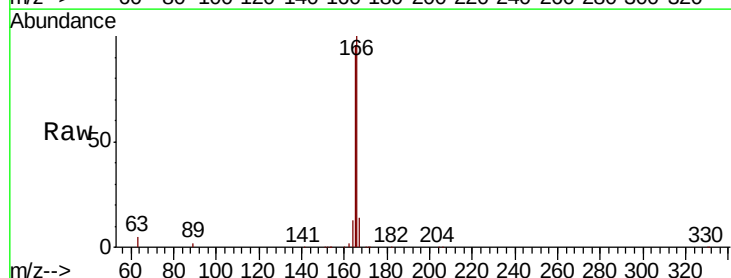
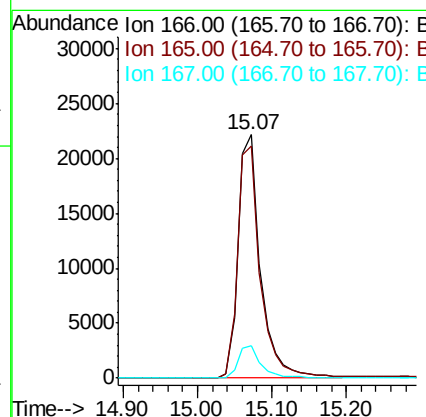
RT: 15.07 min Scan# 1388

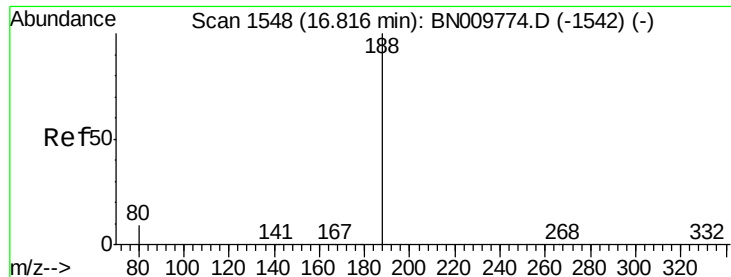
Delta R.T. -0.04 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.0	77.2	115.8
167	13.3	10.5	15.7





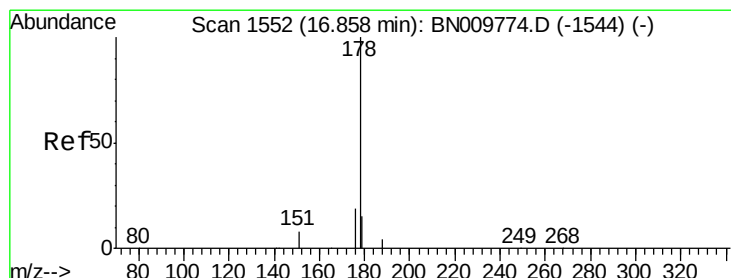
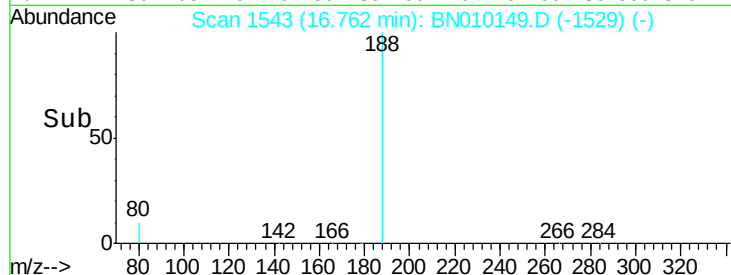
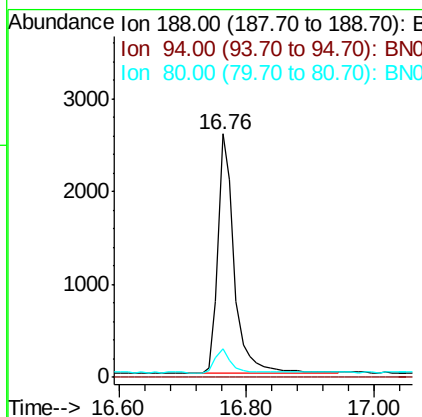
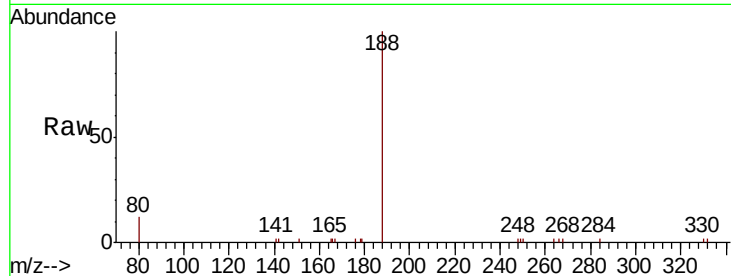
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.76 min Scan# 1543
Delta R.T. -0.05 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.3	12.5

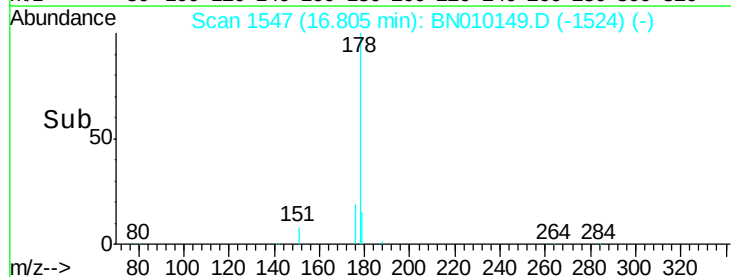
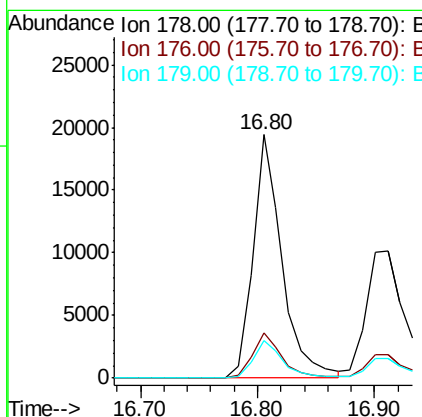
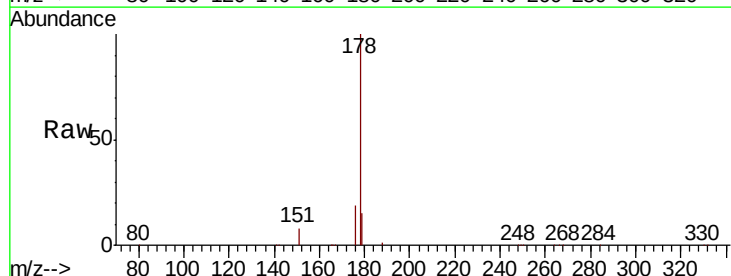
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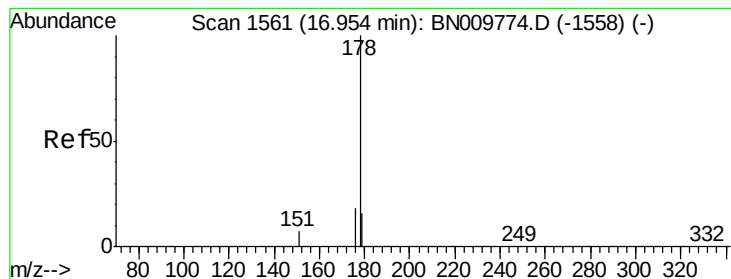
mohammad
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#23
Phenanthrene
Concen: 2.410 ng
RT: 16.80 min Scan# 1547
Delta R.T. -0.05 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.3	22.9
179	15.3	12.4	18.6





#24

Anthracene

Concen: 2.069 ng

RT: 16.91 min Scan# 1557

Delta R.T. -0.04 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Instrument :

BNA_N

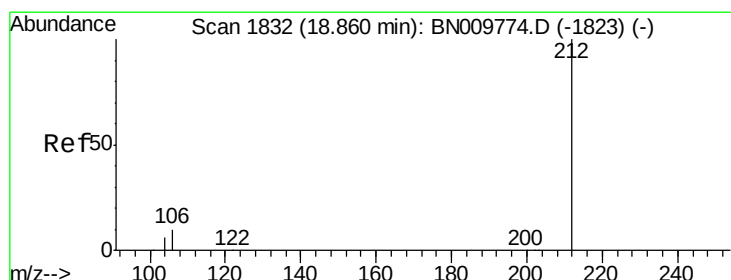
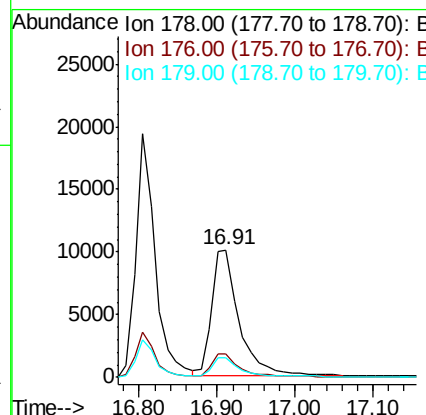
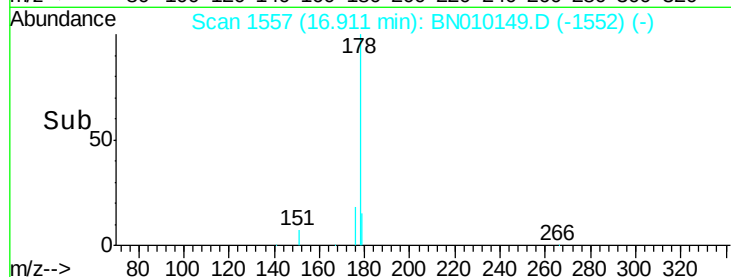
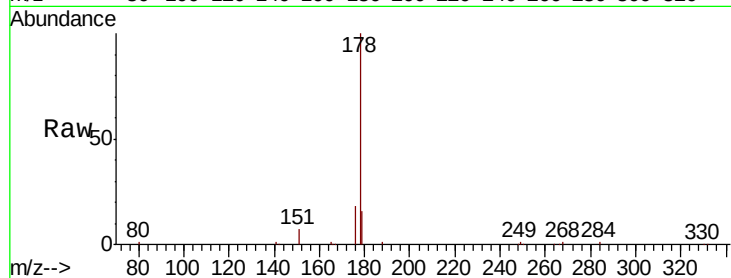
ClientSampled :

RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.3	21.5
179	15.3	12.4	18.6

Manual Integrations
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#25

Fluoranthene-d10

Concen: 0.249 ng

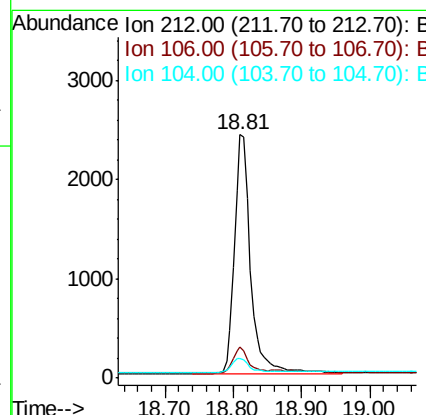
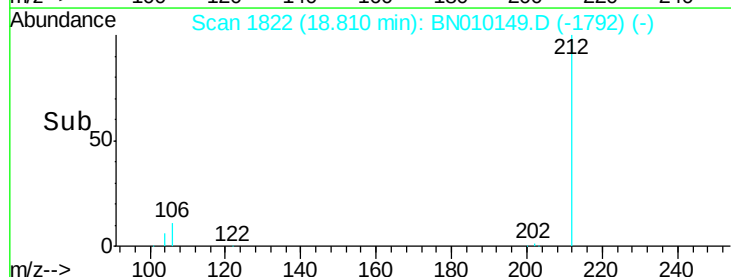
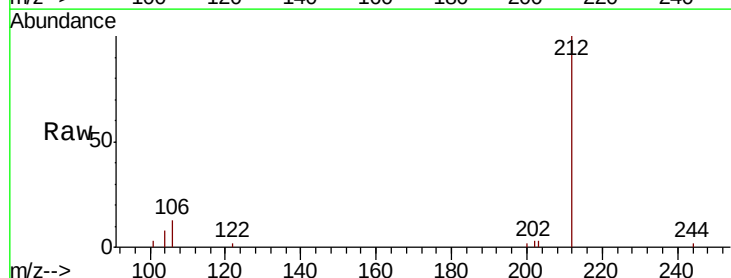
RT: 18.81 min Scan# 1822

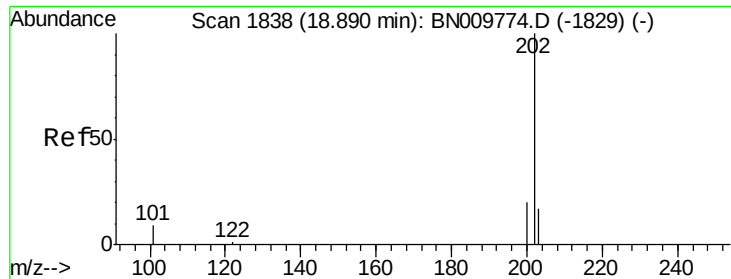
Delta R.T. -0.05 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.3	8.4	12.6
104	6.2	4.8	7.2





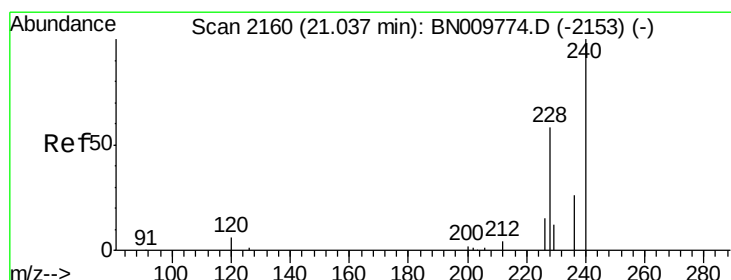
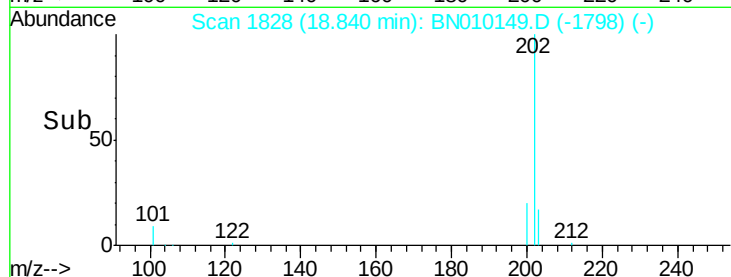
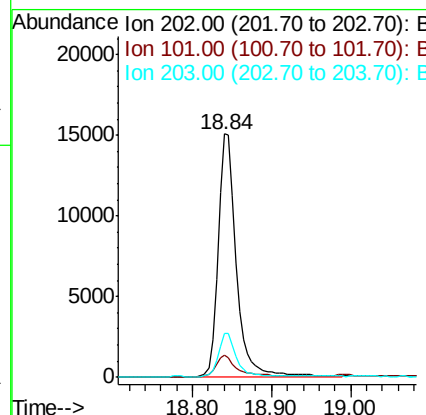
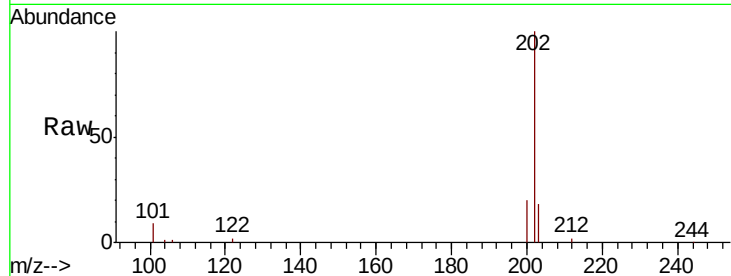
#26
Fluoranthene
 Concen: 1.480 ng
 RT: 18.84 min Scan# 1828
 Delta R.T. -0.05 min
 Lab File: BN010149.D
 Acq: 09 Mar 2020 16:39

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.0	7.1	10.7
203	17.5	13.8	20.6

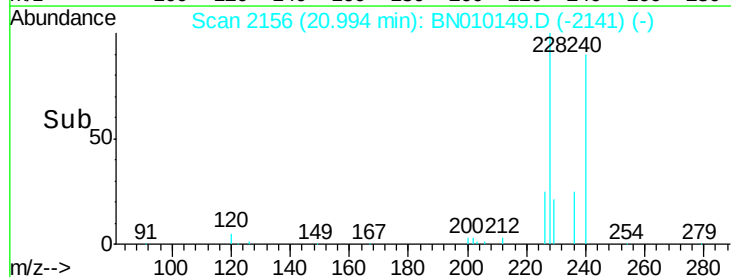
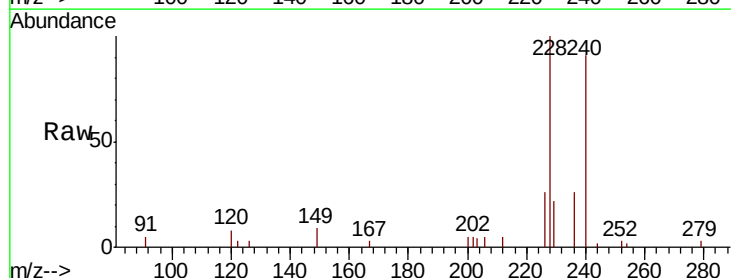
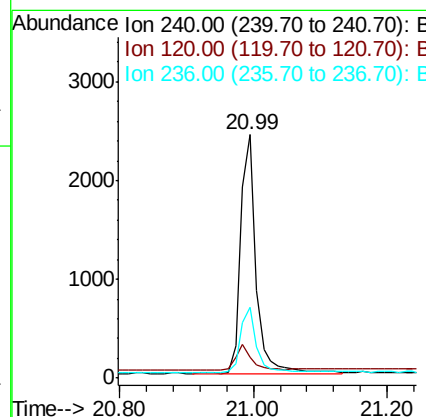
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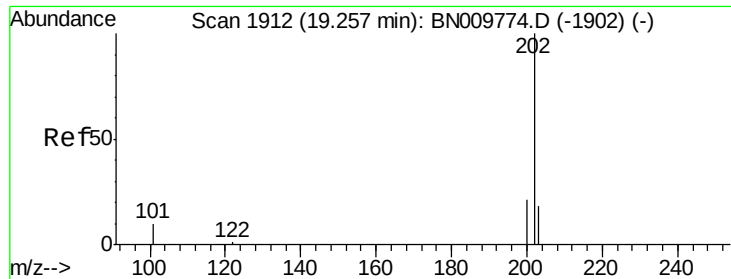
mohammad
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#27
Chrysene-d12
 Concen: 0.400 ng
 RT: 20.99 min Scan# 2156
 Delta R.T. -0.04 min
 Lab File: BN010149.D
 Acq: 09 Mar 2020 16:39

Tgt Ion	Ratio	Lower	Upper
240	100		
120	8.4	7.9	11.9
236	29.2	22.0	33.0





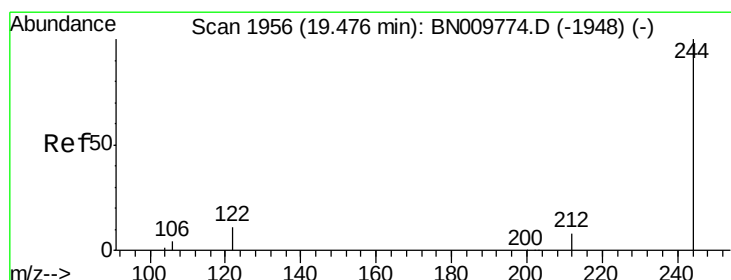
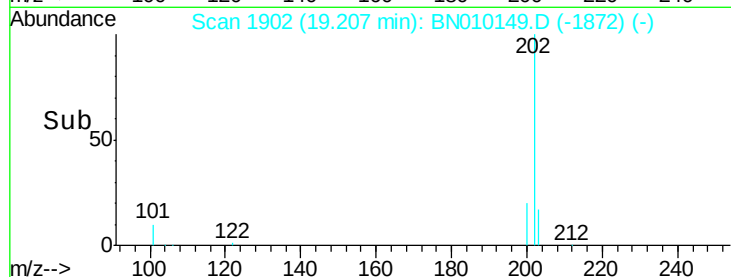
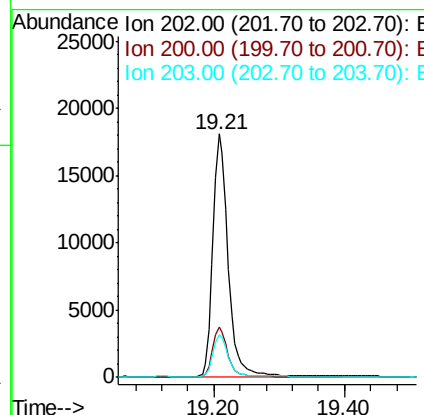
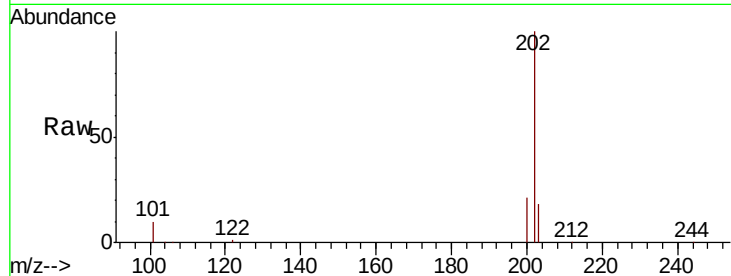
#28
Pvrene
Concen: 1.958 ng
RT: 19.21 min Scan# 1902
Delta R.T. -0.05 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.4	24.6
203	17.3	13.9	20.9

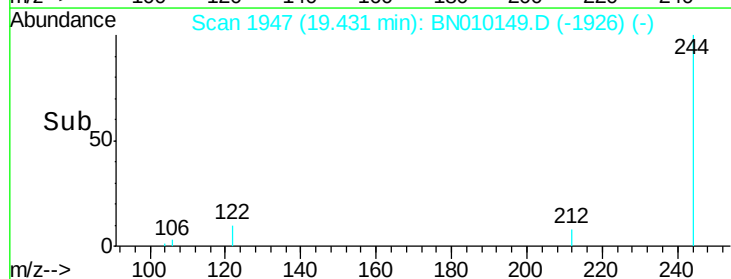
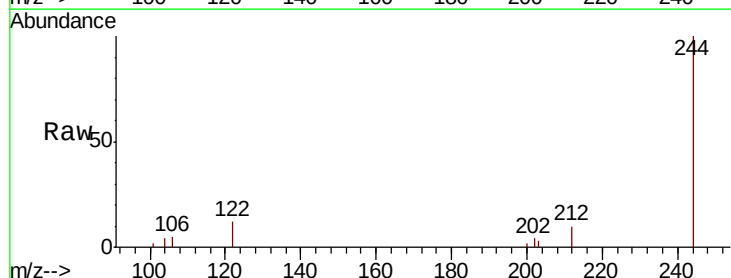
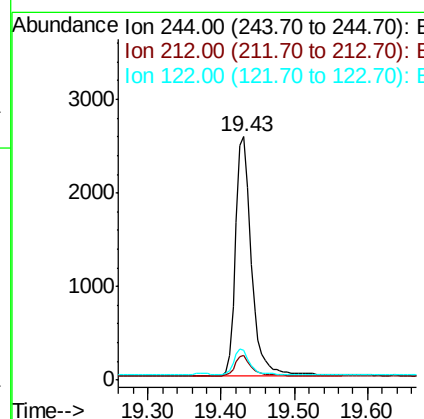
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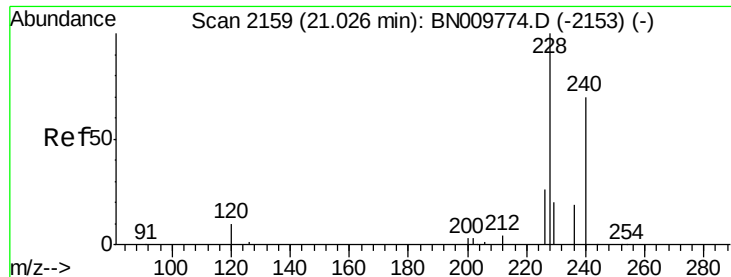
mohammad
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#29
Terphenyl-d14
Concen: 0.419 ng
RT: 19.43 min Scan# 1947
Delta R.T. -0.04 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.0	12.0
122	12.0	10.0	15.0





#30

Benzo(a)anthracene

Concen: 1.465 ng

RT: 20.97 min Scan# 2154

Delta R.T. -0.05 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Instrument :

BNA_N

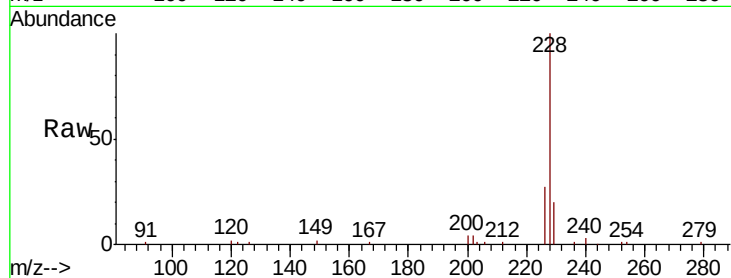
ClientSampleId :

RR-PAH-WP

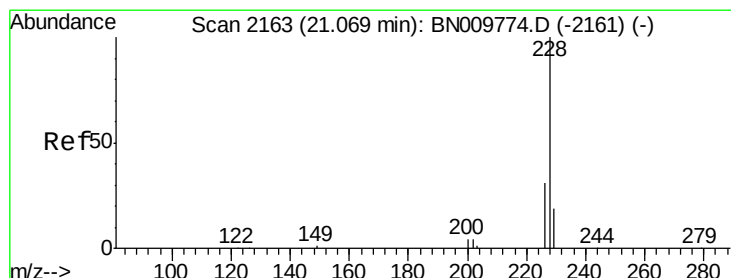
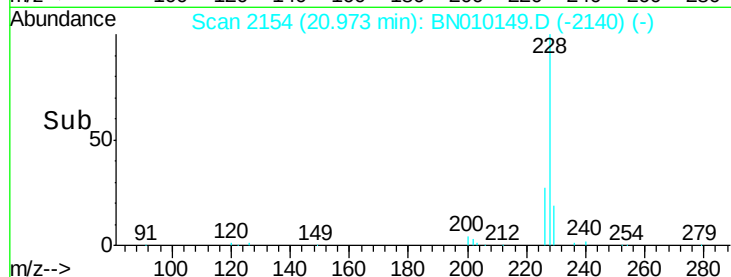
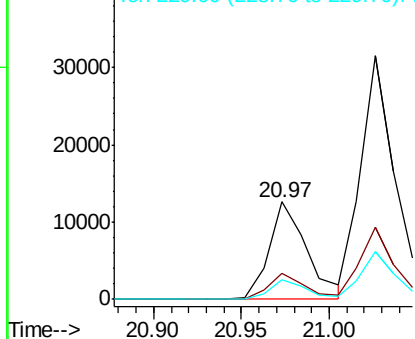
Tot Ion:	228	Resp:	18847
Ion Ratio	Lower	Upper	
228	100		
226	27.3	21.8	32.8
229	19.8	17.1	25.7

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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

Chrysene

Concen: 2.940 ng

RT: 21.03 min Scan# 2159

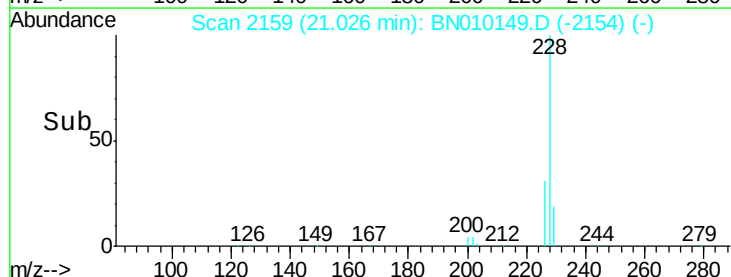
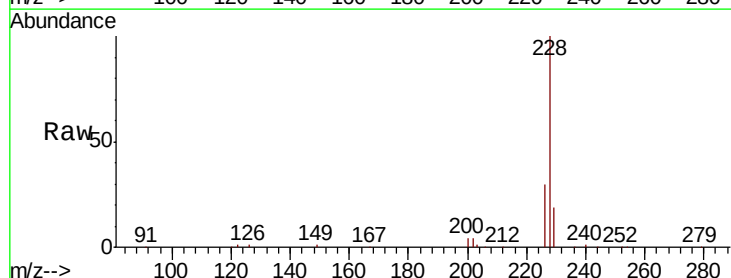
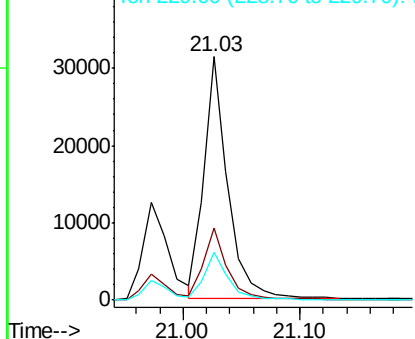
Delta R.T. -0.04 min

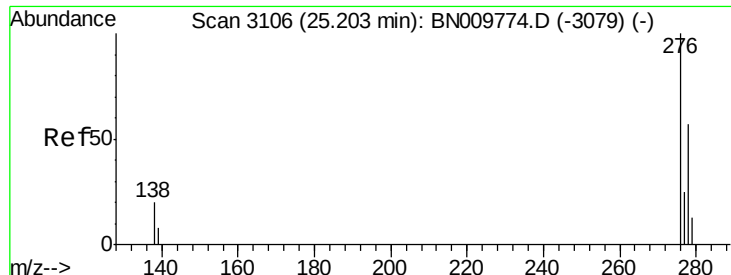
Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Tgt Ion:	228	Resp:	43762
Ion Ratio	Lower	Upper	
228	100		
226	29.6	24.8	37.2
229	19.5	16.4	24.6

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





#33

Indeno(1,2,3-cd)pyrene

Concen: 1.116 ng

RT: 25.12 min Scan# 3082

Delta R.T. -0.08 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Instrument :

BNA_N

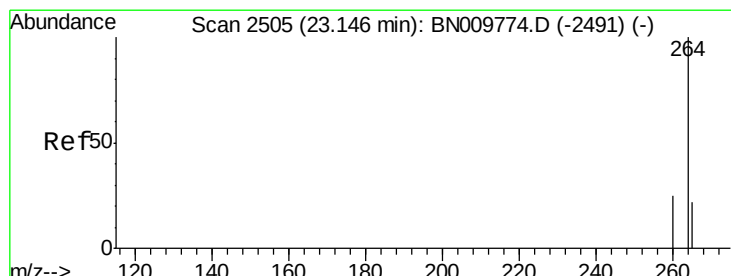
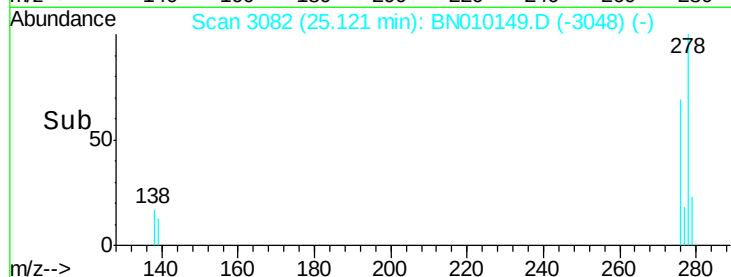
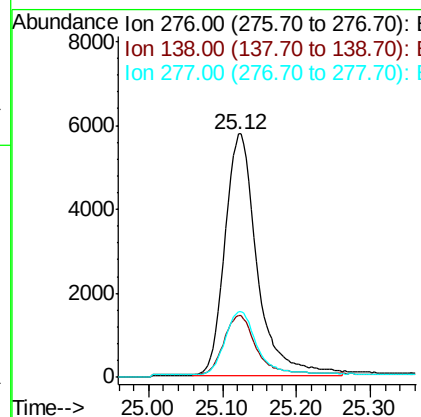
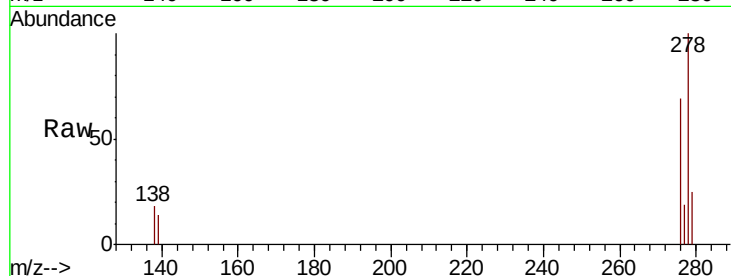
ClientSampleId :

RR-PAH-WP

Tot Ion:276	Resp:	17306
Ion Ratio	Lower	Upper
276 100		
138 24.6	15.8	23.6#
277 26.3	19.3	28.9

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#34

Perylene-d12

Concen: 0.400 ng

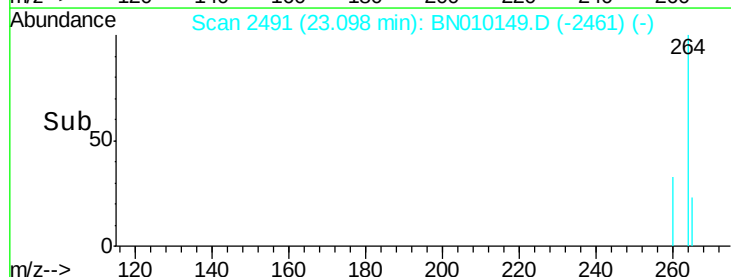
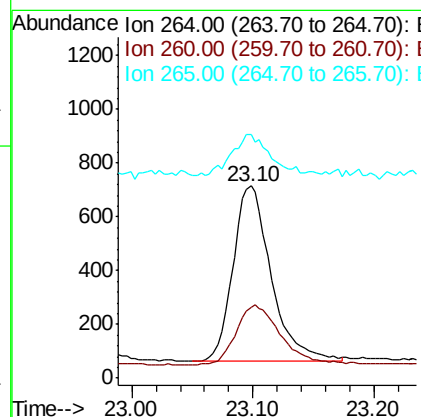
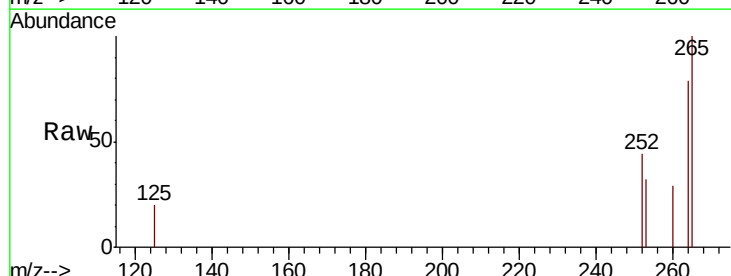
RT: 23.10 min Scan# 2491

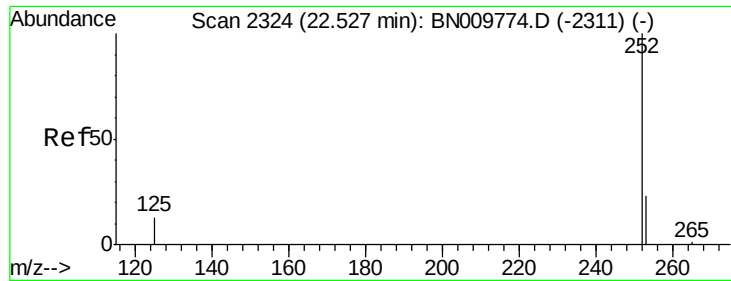
Delta R.T. -0.05 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Tgt Ion:264	Resp:	1433
Ion Ratio	Lower	Upper
264 100		
260 36.6	21.1	31.7#
265 126.7	57.5	86.3#





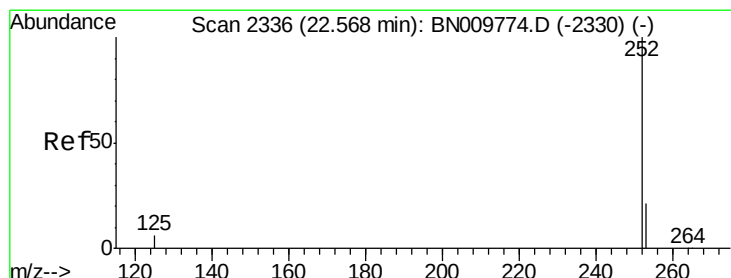
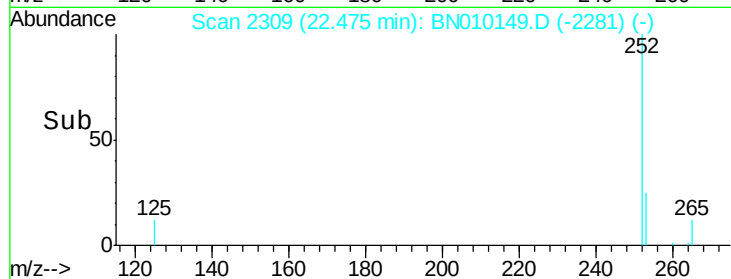
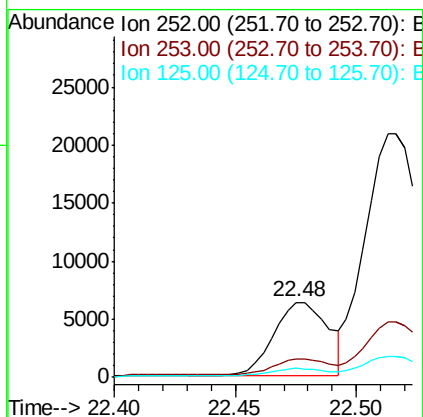
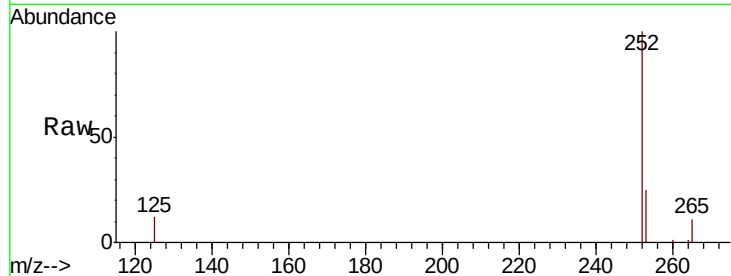
#35
Benzo(b)fluoranthene
Concen: 1.887 ng
RT: 22.48 min Scan# 2309
Delta R.T. -0.05 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	23.0	34.6
125	12.0	14.4	21.6

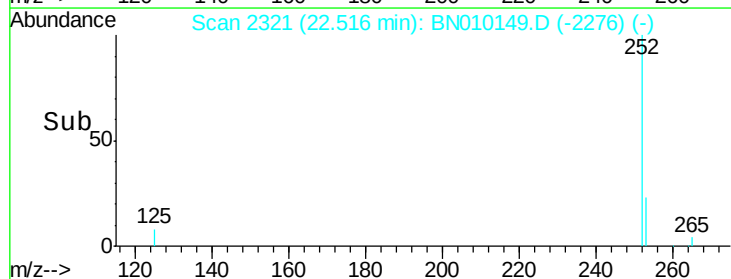
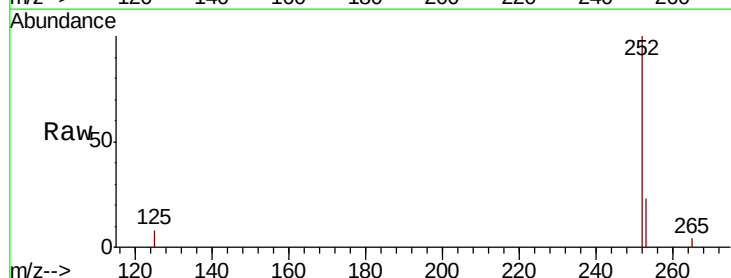
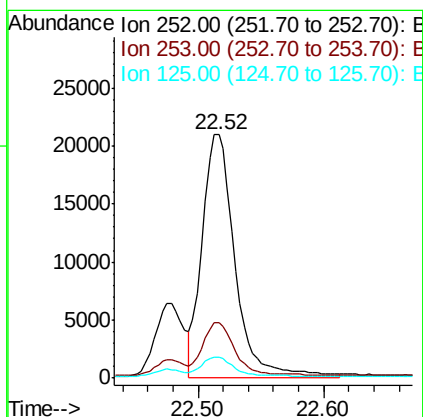
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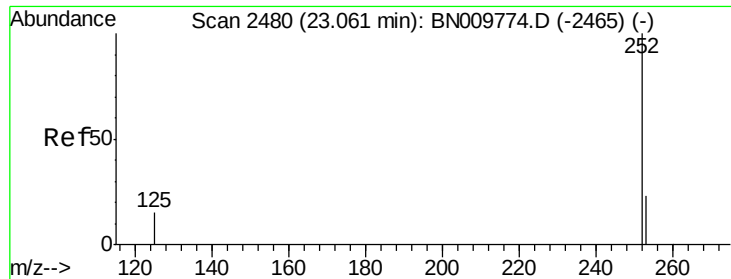
mohammad
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#36
Benzo(k)fluoranthene
Concen: 6.738 ng m
RT: 22.52 min Scan# 2321
Delta R.T. -0.05 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	22.2	33.2
125	8.4	10.5	15.7





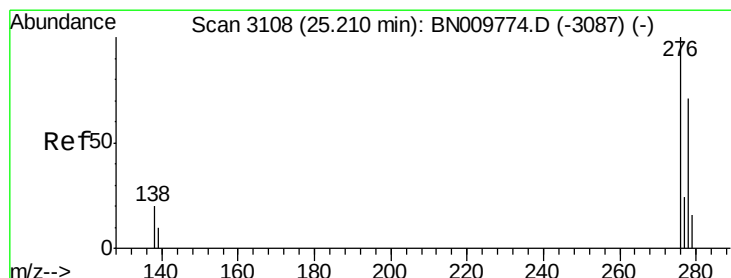
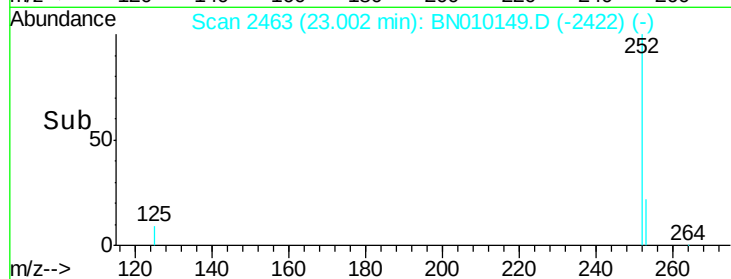
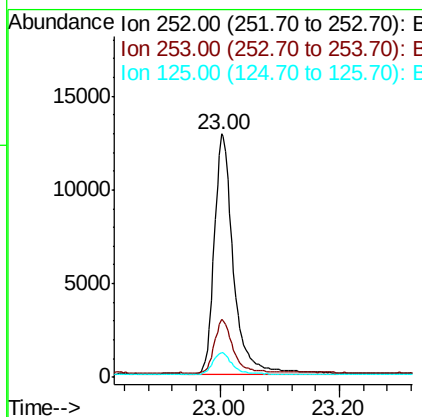
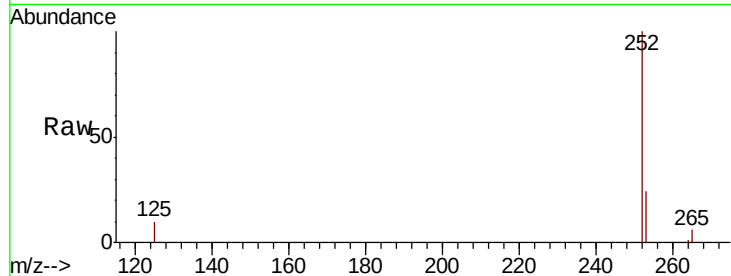
#37
Benzo(a)pyrene
Concen: 5.967 ng
RT: 23.00 min Scan# 2463
Delta R.T. -0.06 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	25.3	37.9#
125	10.4	17.7	26.5#

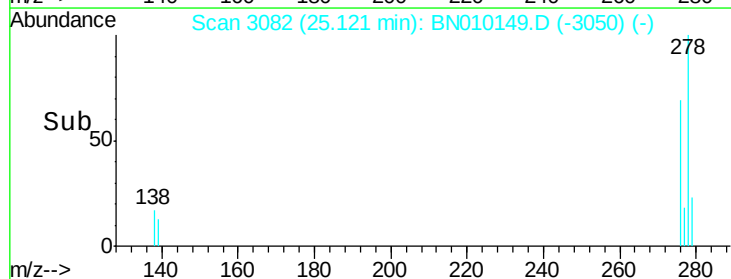
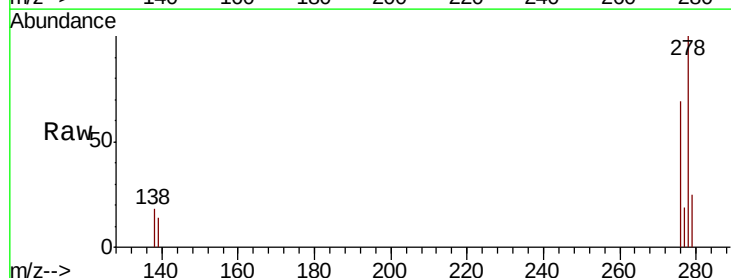
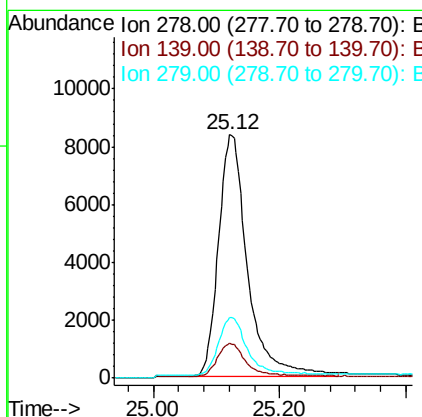
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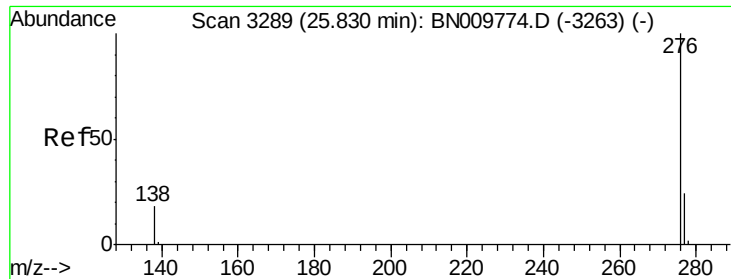
mohammad
3/10/2020 2:45:33 PM



#38
Dibenzo(a,h)anthracene
Concen: 5.732 ng
RT: 25.12 min Scan# 3082
Delta R.T. -0.09 min
Lab File: BN010149.D
Acq: 09 Mar 2020 16:39

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.3	14.5	21.7#
279	24.6	24.3	36.5





#39

Benzo(a,h,i)perylene

Concen: 6.688 ng

RT: 25.73 min Scan# 3261

Delta R.T. -0.10 min

Lab File: BN010149.D

Acq: 09 Mar 2020 16:39

Instrument :

BNA_N

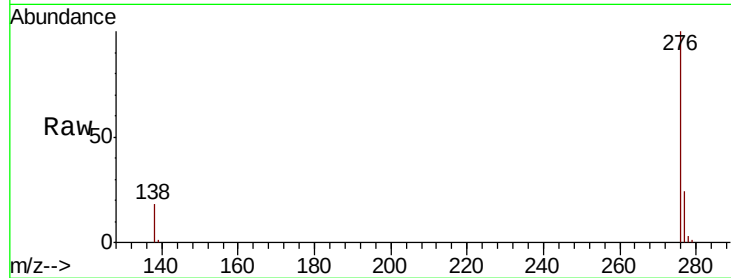
ClientSampleId :

RR-PAH-WP

Tot Ion:	276	Resp:	33533
Ion Ratio	Lower	Upper	
276	100		
277	24.2	21.4	32.0
138	18.2	16.6	24.8

Manual Integrations
APPROVED

mohammad
3/10/2020 2:45:33 PM



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

