

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN041420\
 Data File : BN010478.D
 Acq On : 14 Apr 2020 14:55
 Operator : CG/JU
 Sample : L1798-21DL 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Manual Integrations
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 4/15/2020 3:32:22 PM

Quant Time: Apr 14 15:25:54 2020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN041320.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Apr 13 18:04:22 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	5075	0.40	ng	0.00
7) Naphthalene-d8	10.37	136	21146	0.40	ng	0.00
13) Acenaphthene-d10	14.22	164	13524	0.40	ng	0.00
19) Phenanthrene-d10	16.97	188	30615	0.40	ng	0.00
27) Chrysene-d12	21.17	240	27244	0.40	ng	-0.01
34) Perylene-d12	23.35	264	22855	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.25	112	976	0.09	ng	0.00
5) Phenol-d6	6.79	99	1268	0.09	ng	0.00
8) Nitrobenzene-d5	8.74	82	1077	0.07	ng	0.00
11) 2-Methylnaphthalene-d10	11.96	152	2369	0.07	ng	0.00
14) 2,4,6-Tribromophenol	15.73	330	536	0.08	ng	0.00
15) 2-Fluorobiphenyl	12.85	172	3697	0.08	ng	0.00
25) Fluoranthene-d10	19.01	212	6200	0.07	ng	0.00
29) Terphenyl-d14	19.62	244	5607	0.09	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.41	128	41997	0.800	ng	98
16) Acenaphthylene	13.95	152	45435	0.778	ng	99
17) Acenaphthene	14.29	154	112786	3.004	ng	99
18) Fluorene	15.28	166	57770	1.175	ng	100
23) Phenanthrene	17.02	178	43393	0.525	ng	100
24) Anthracene	17.10	178	33583	0.444	ng	100
26) Fluoranthene	19.04	202	35426	0.344	ng	99
28) Pyrene	19.41	202	59173	0.645	ng	100
30) Benzo(a)anthracene	21.16	228	27760	0.312	ng	98
31) Chrysene	21.22	228	59809	0.676	ng	98
33) Indeno(1,2,3-cd)pyrene	25.50	276	25654	0.328	ng	96
35) Benzo(b)fluoranthene	22.70	252	12443m	0.165	ng	
36) Benzo(k)fluoranthene	22.75	252	54631	0.725	ng	96
37) Benzo(a)pyrene	23.26	252	51372	0.771	ng	93
38) Dibenzo(a,h)anthracene	25.51	278	31595	0.519	ng	97
39) Benzo(g,h,i)perylene	26.14	276	47761	0.779	ng	98

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

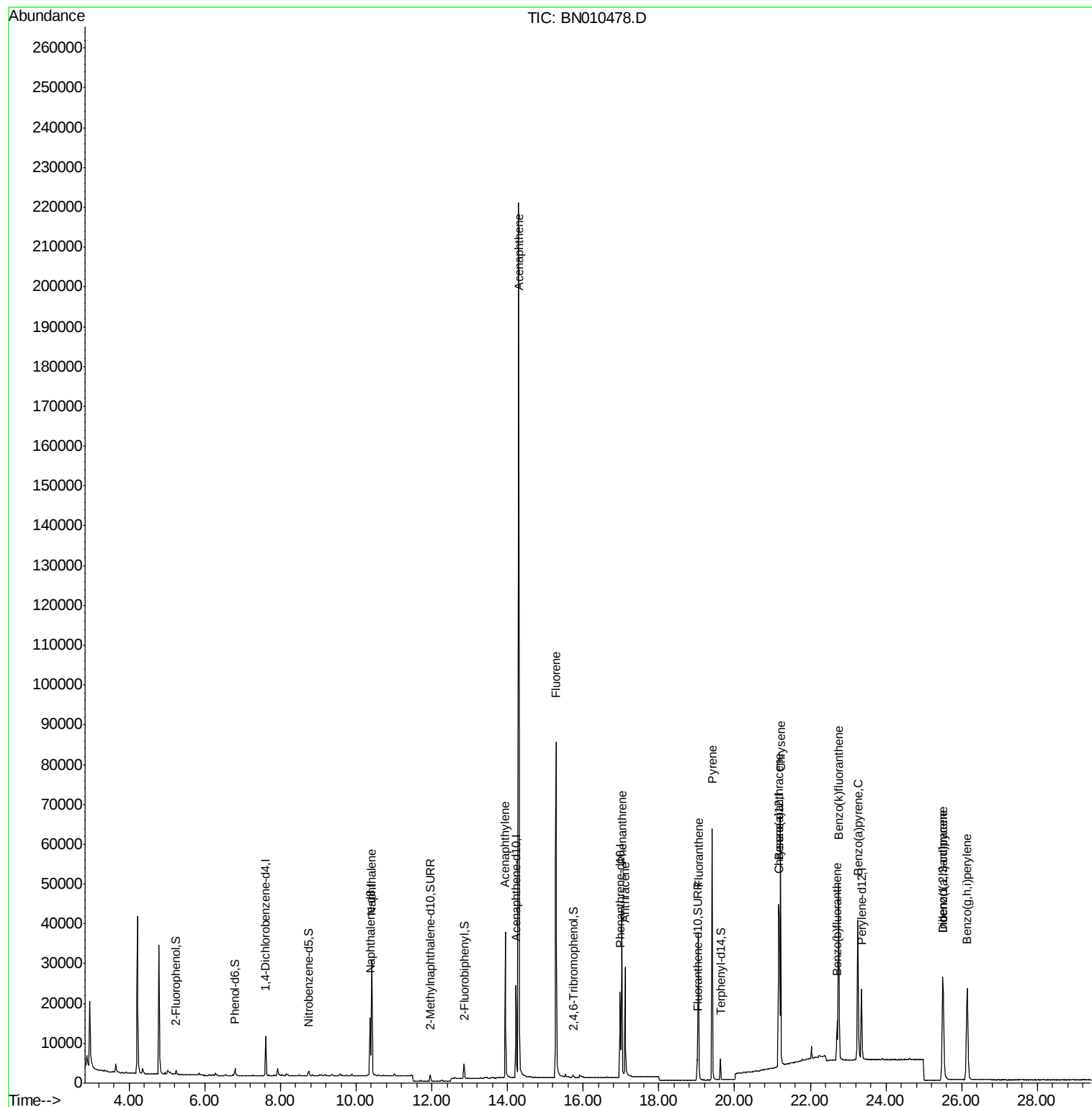
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN041420\
Data File : BN010478.D
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Misc :
ALS Vial : 7 Sample Multiplier: 1

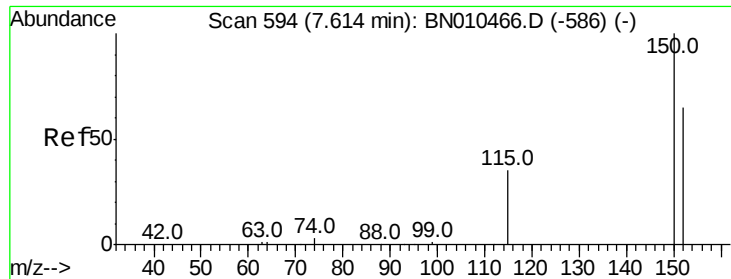
Instrument :
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#1

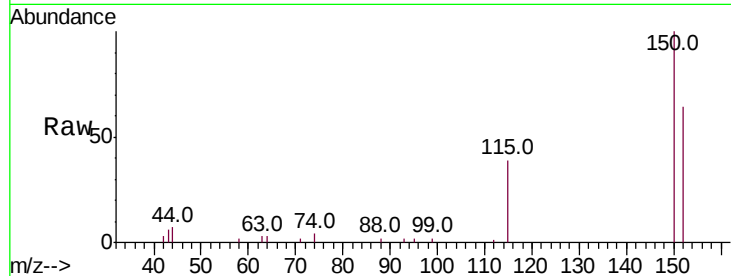
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.61 min Scan# 593
Delta R.T. -0.01 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.1	121.8	182.6
115	61.0	45.5	68.3

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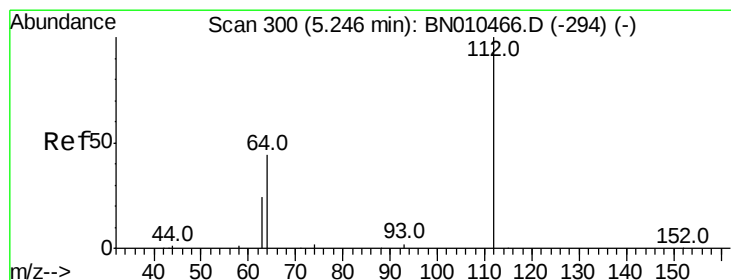
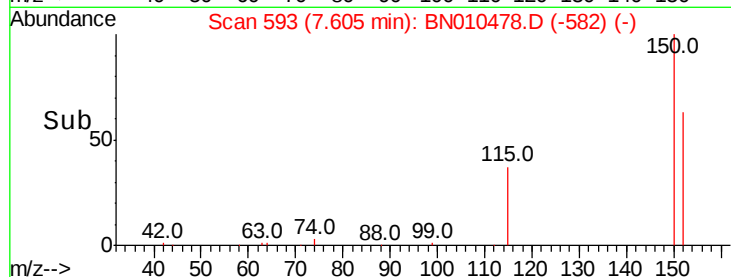
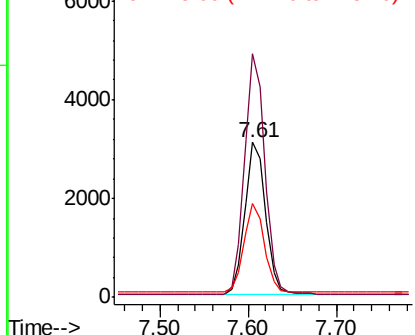


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

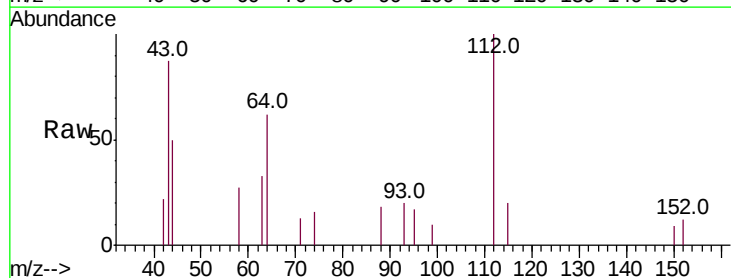
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.088 ng
RT: 5.25 min Scan# 300
Delta R.T. -0.00 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.5	35.8	53.8
63	23.9	19.9	29.9

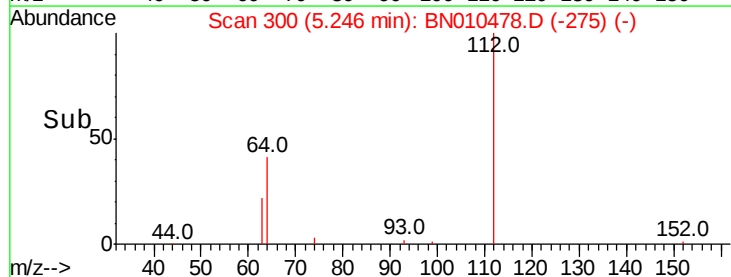
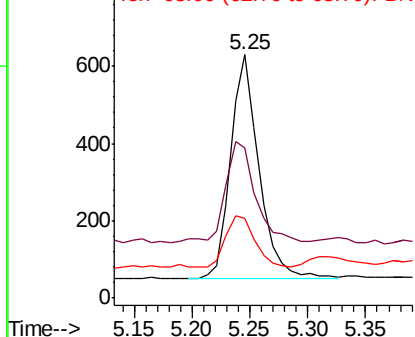


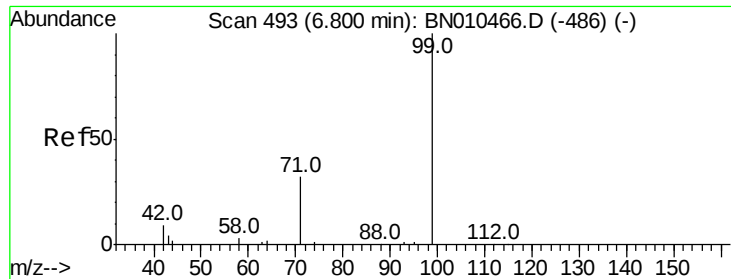
Abundance

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: 0.087 ng

RT: 6.79 min Scan# 492

Delta R.T. -0.01 min

Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

Instrument :

BNA_N

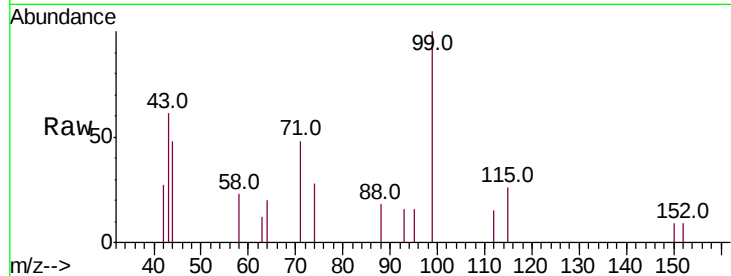
ClientSampleId :

RR-PAH-WPDL

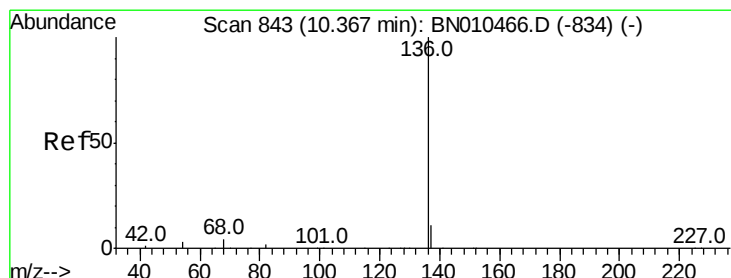
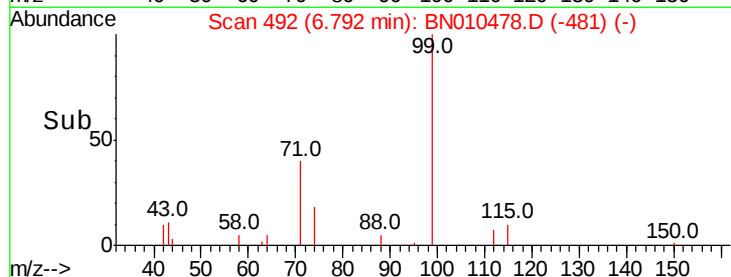
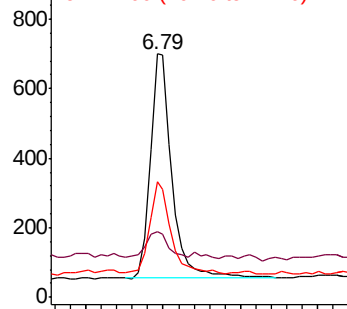
Tot Ion:	99	Resp:	1268
Ion	Ratio	Lower	Upper
99	100		
42	12.1	9.8	14.6
71	39.6	27.8	41.8

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Abundance Ion 99.00 (98.70 to 99.70): BN010466.D (-486) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.37 min Scan# 843

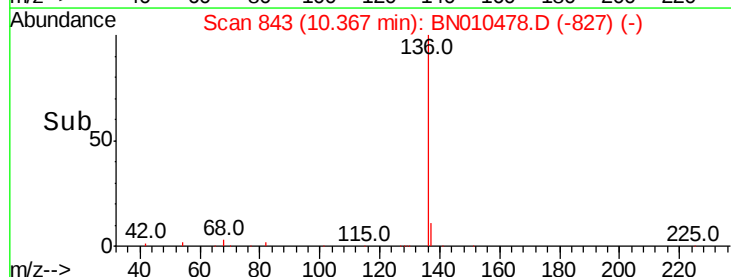
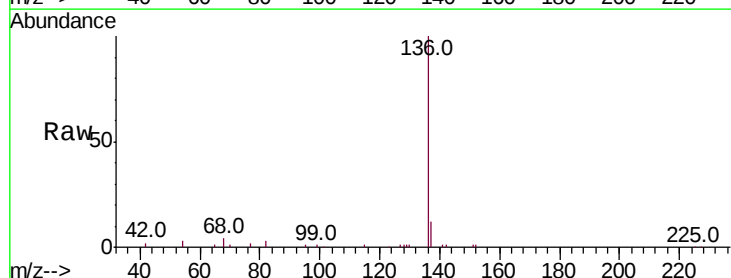
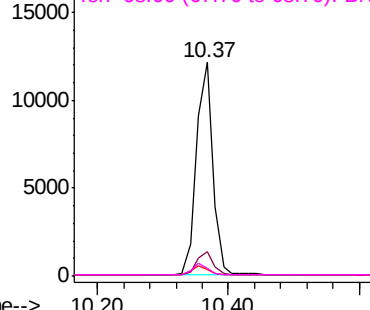
Delta R.T. -0.00 min

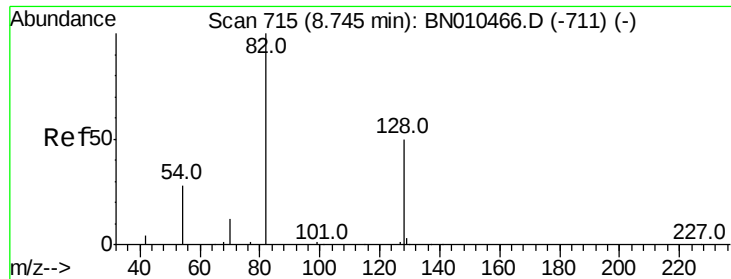
Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

Tgt Ion:	136	Resp:	21146
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	2.8	2.6	4.0
68	3.7	3.4	5.2

Abundance Ion 136.00 (135.70 to 136.70): BN010466.D (-834) (-)





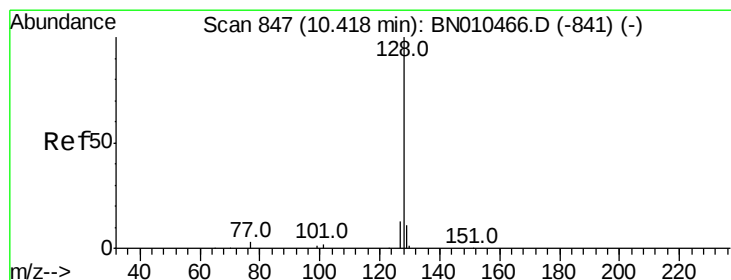
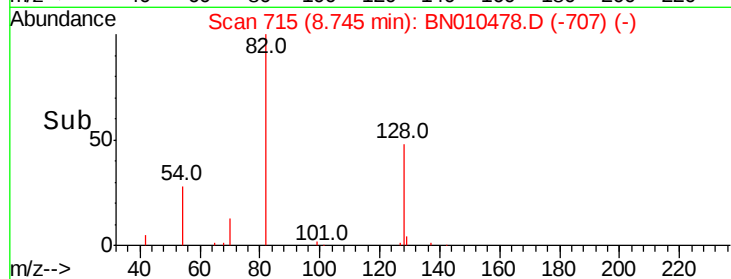
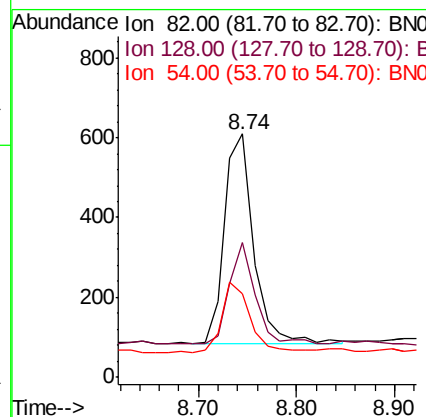
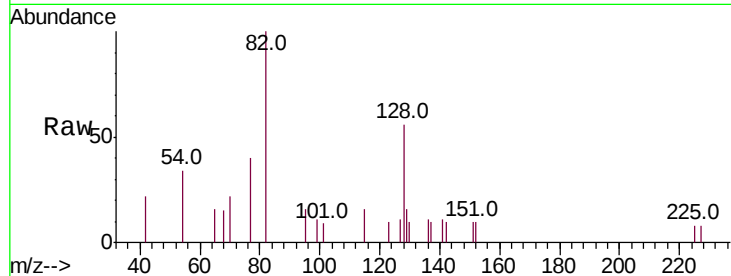
#8
Nitrobenzene-d5
Concen: 0.073 ng
RT: 8.74 min Scan# 715
Delta R.T. -0.00 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	55.7	41.3	61.9
54	34.5	23.4	35.0

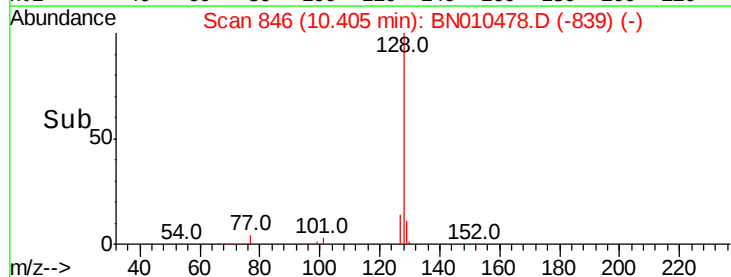
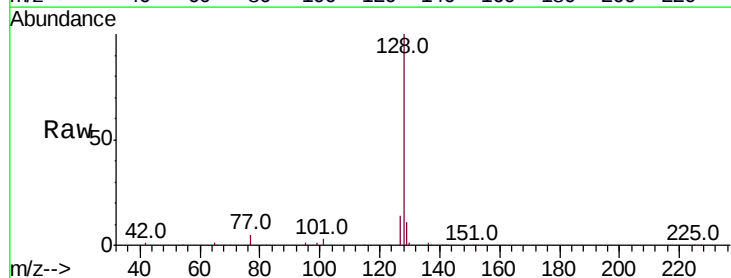
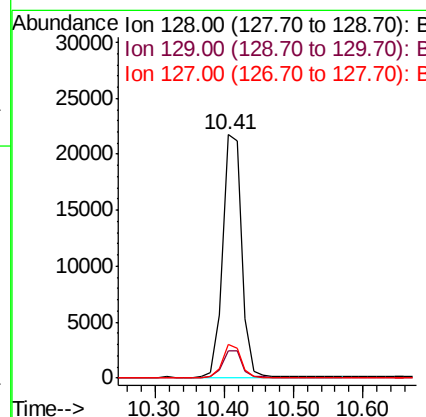
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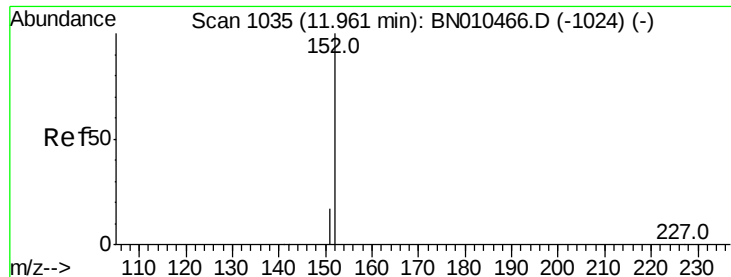
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#9
Naphthalene
Concen: 0.800 ng
RT: 10.41 min Scan# 846
Delta R.T. -0.01 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.3	13.9
127	13.8	10.5	15.7





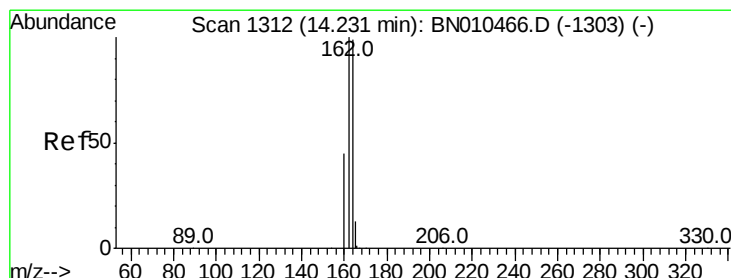
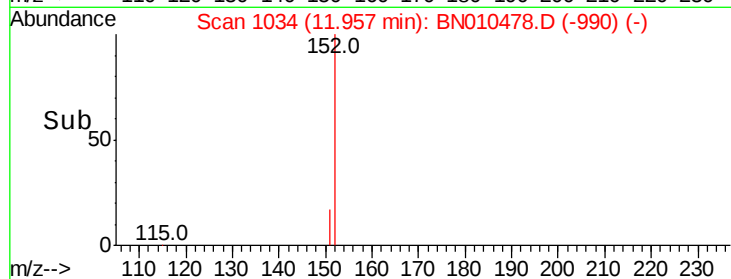
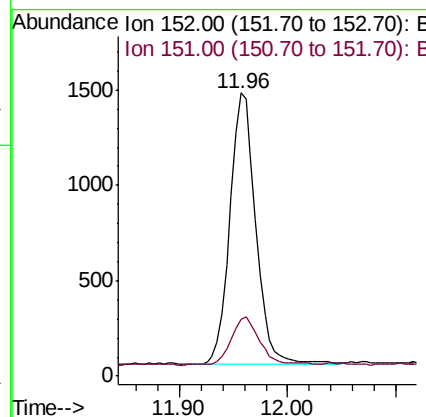
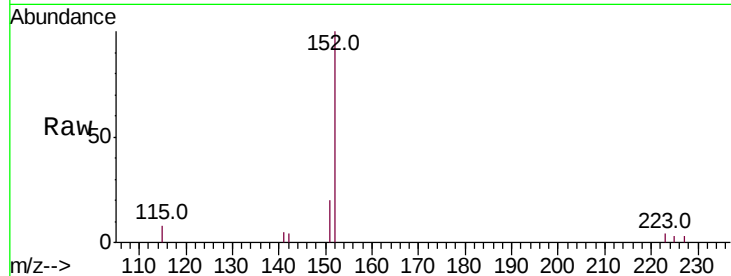
#11
2-Methylnaphthalene-d10
Concen: 0.068 ng
RT: 11.96 min Scan# 1034
Delta R.T. -0.00 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
152	100		
151	18.7	15.3	22.9

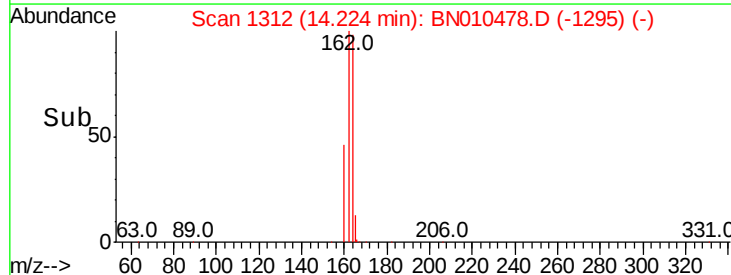
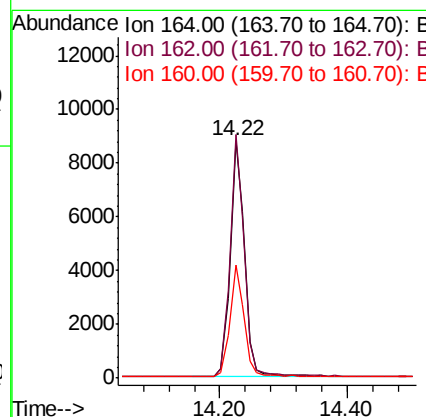
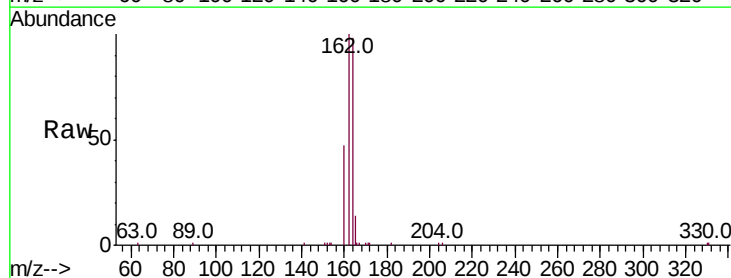
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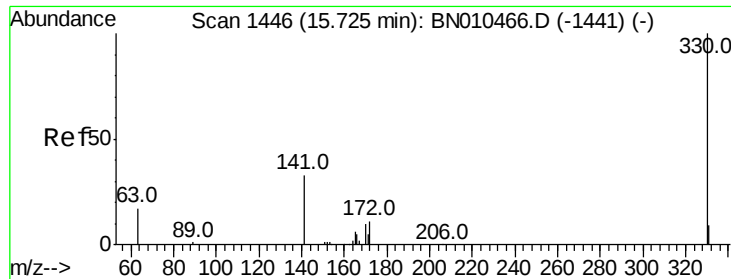
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#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.22 min Scan# 1312
Delta R.T. -0.01 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	80.6	121.0
160	47.7	36.5	54.7





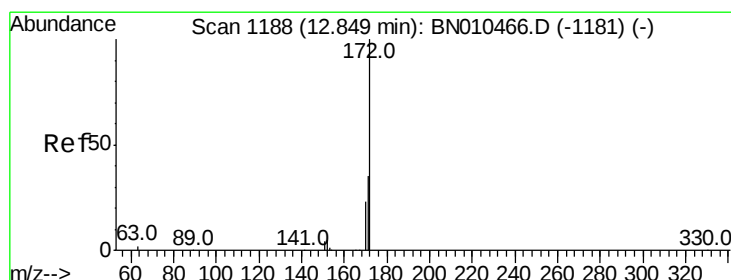
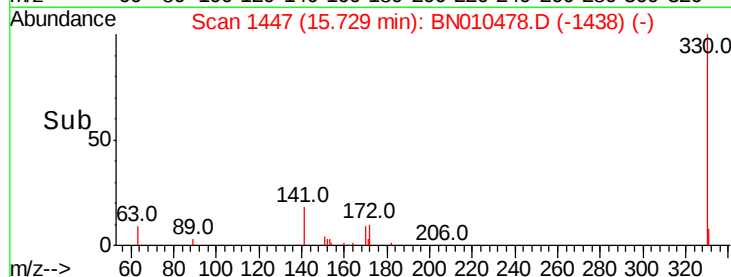
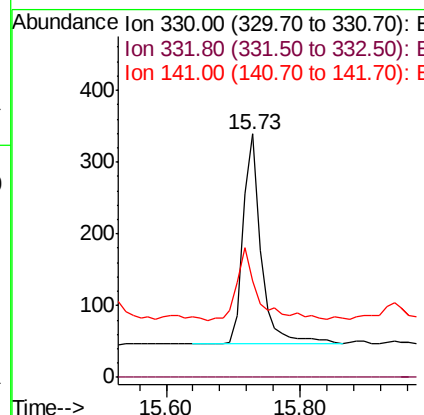
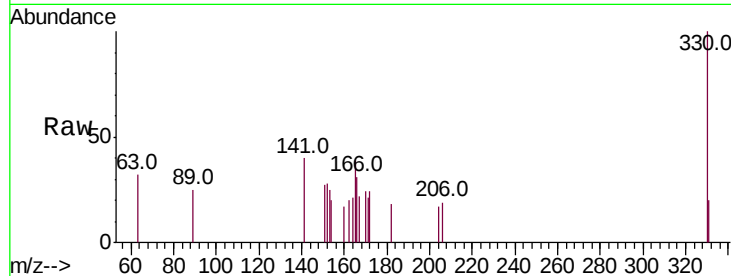
#14
 2,4,6-Tribromophenol
 Concen: 0.084 ng
 RT: 15.73 min Scan# 1447
 Delta R.T. 0.00 min
 Lab File: BN010478.D
 Acq: 14 Apr 2020 14:55

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	42.0	28.1	42.1

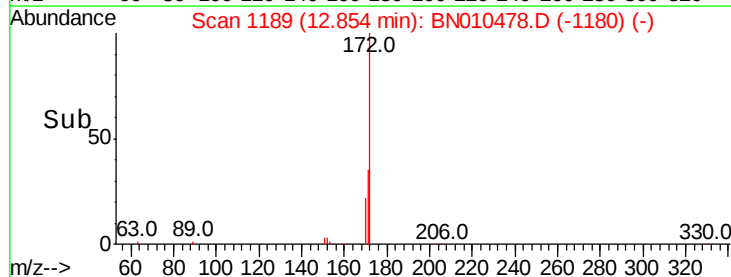
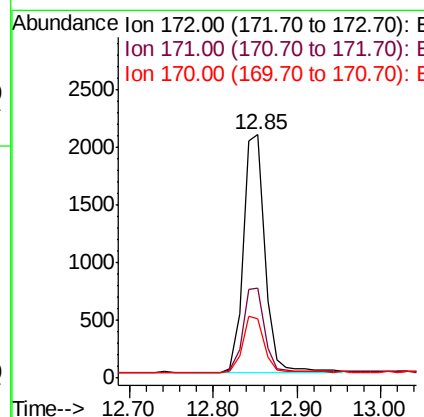
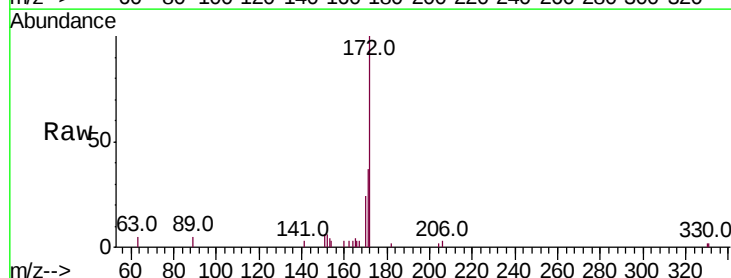
Manual Integrations
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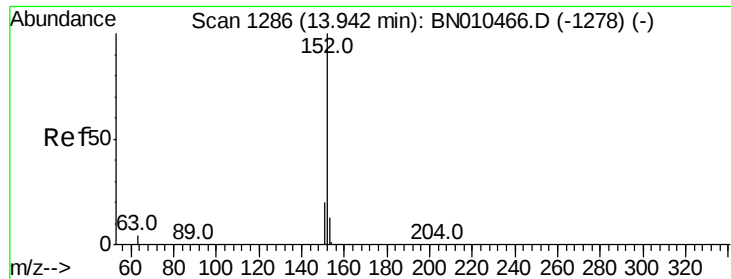
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#15
 2-Fluorobiphenyl
 Concen: 0.075 ng
 RT: 12.85 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: BN010478.D
 Acq: 14 Apr 2020 14:55

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.1	28.2	42.2
170	24.3	18.4	27.6





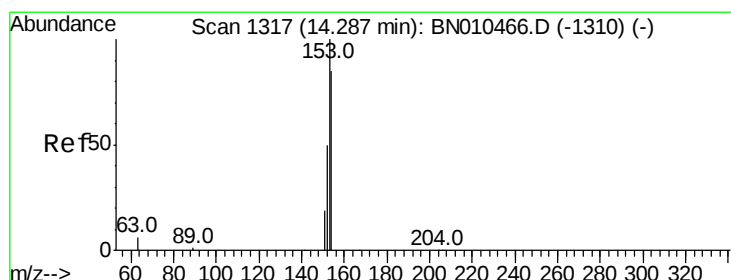
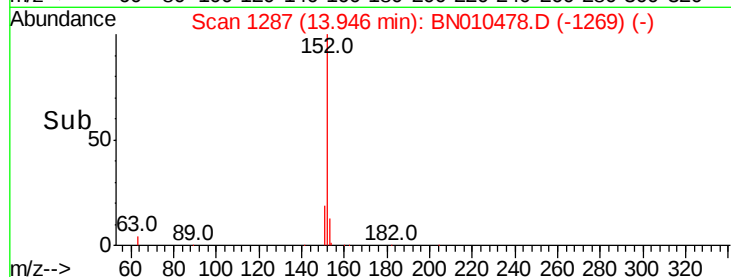
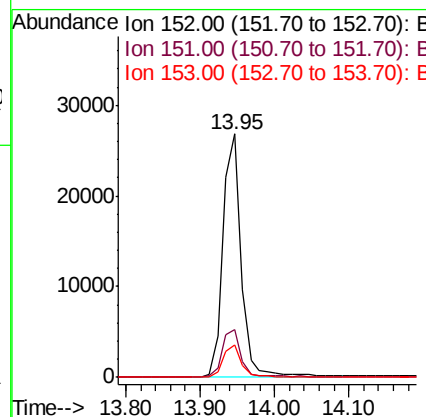
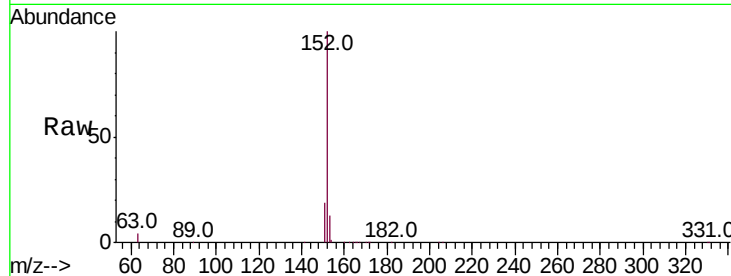
#16
Acenaphthylene
Concen: 0.778 ng
RT: 13.95 min Scan# 1287
Delta R.T. 0.00 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	13.1	10.6	15.8

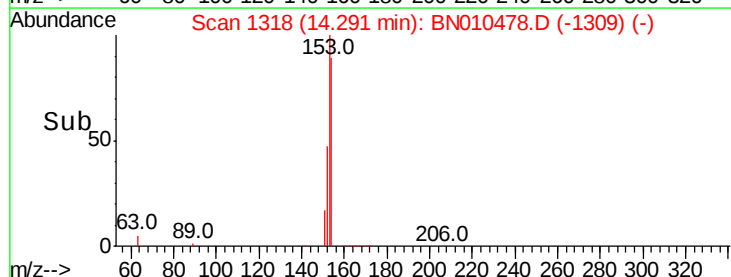
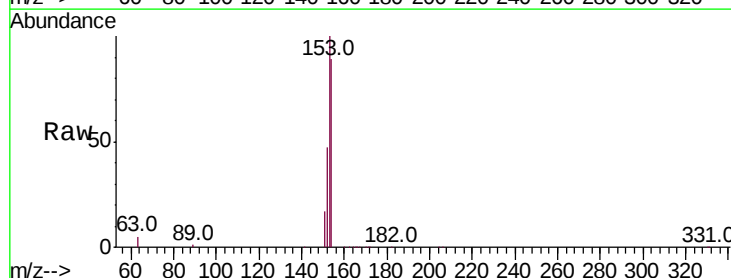
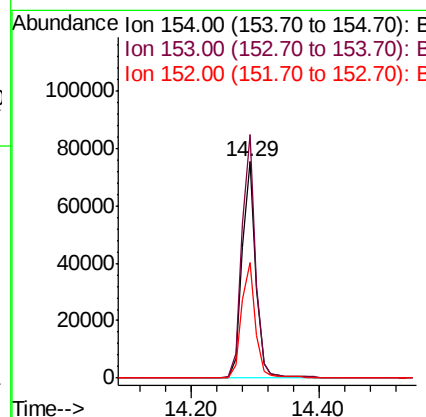
Manual Integrations
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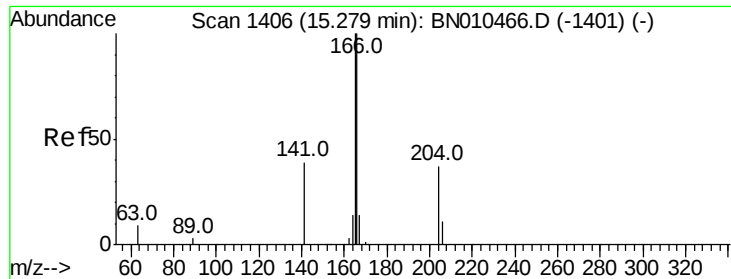
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#17
Acenaphthene
Concen: 3.004 ng
RT: 14.29 min Scan# 1318
Delta R.T. 0.00 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.1	91.0	136.4
152	54.8	44.6	67.0





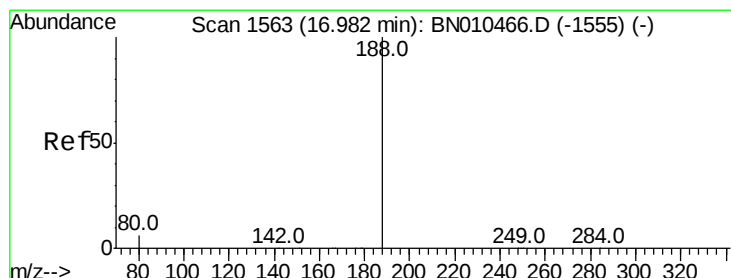
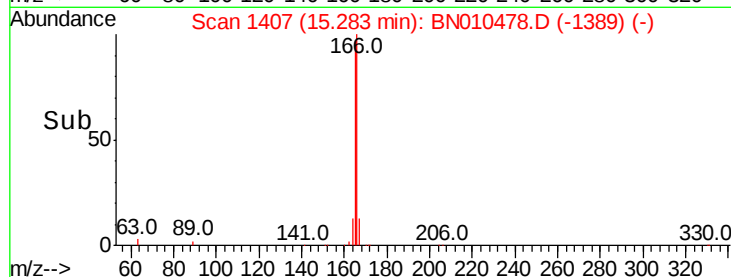
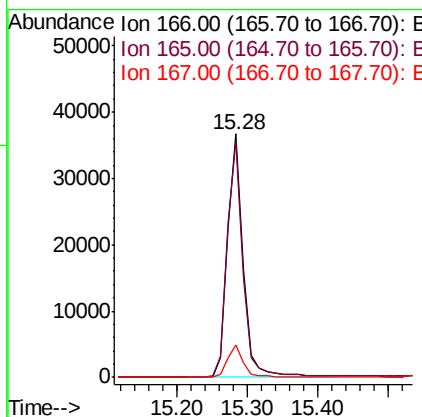
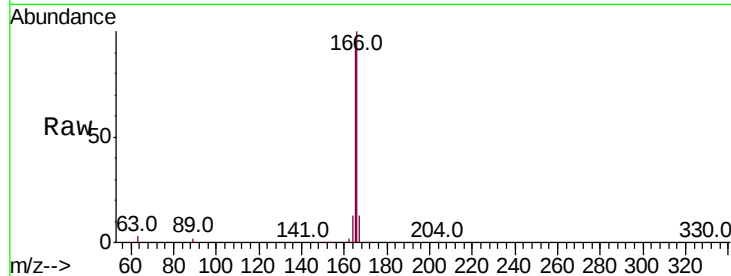
#18
Fluorene
 Concen: 1.175 ng
 RT: 15.28 min Scan# 1407
 Delta R.T. 0.00 min
 Lab File: BN010478.D
 Acq: 14 Apr 2020 14:55

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.4	117.6
167	13.3	10.9	16.3

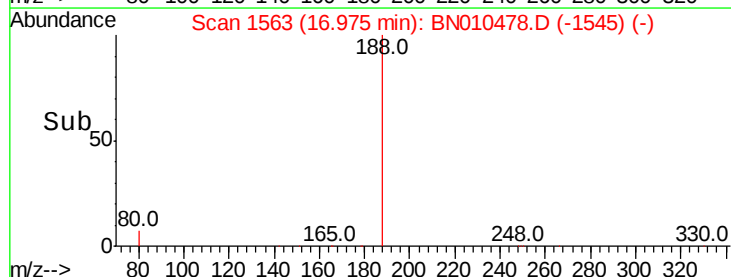
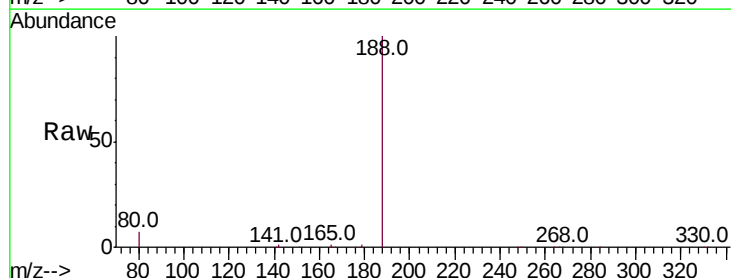
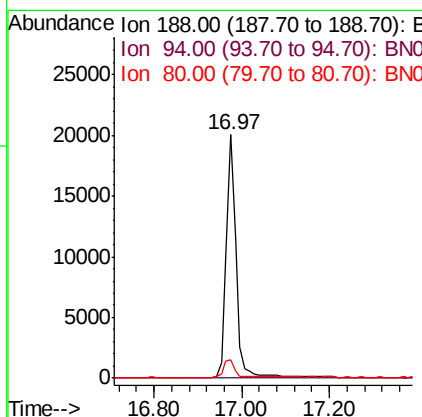
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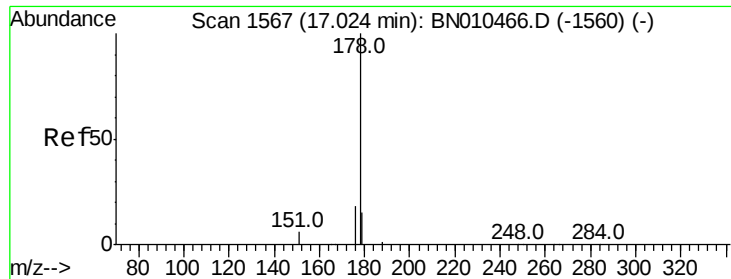
mohammad
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#19
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.97 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: BN010478.D
 Acq: 14 Apr 2020 14:55

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	5.0	7.6





#23

Phenanthrene

Concen: 0.525 ng

RT: 17.02 min Scan# 1567

Delta R.T. -0.01 min

Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

Instrument :

BNA_N

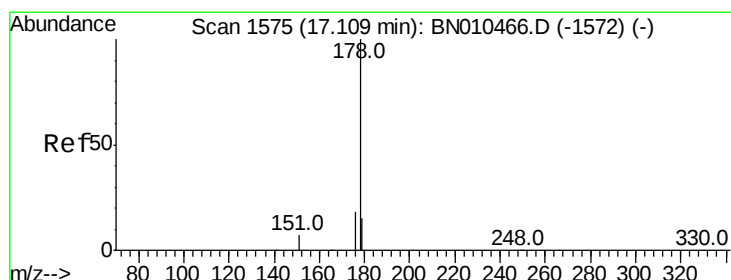
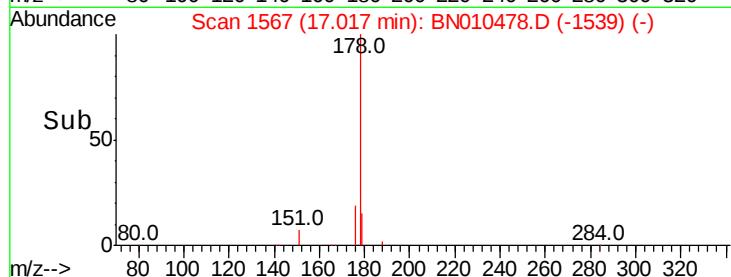
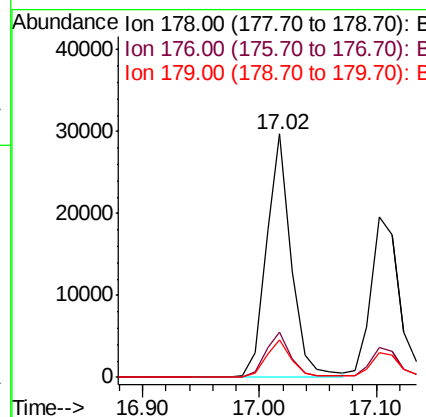
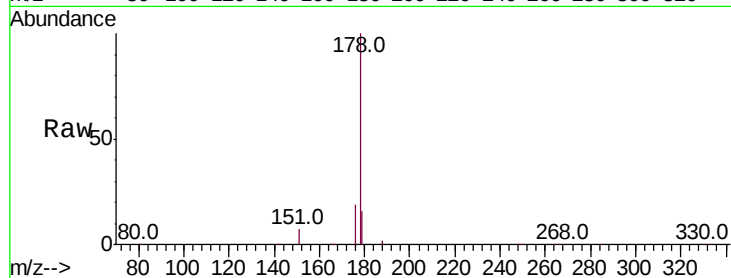
ClientSampleId :

RR-PAH-WPDL

Tot Ion:	178	Resp:	43393
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.0	22.4
179	15.5	12.6	18.8

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#24

Anthracene

Concen: 0.444 ng

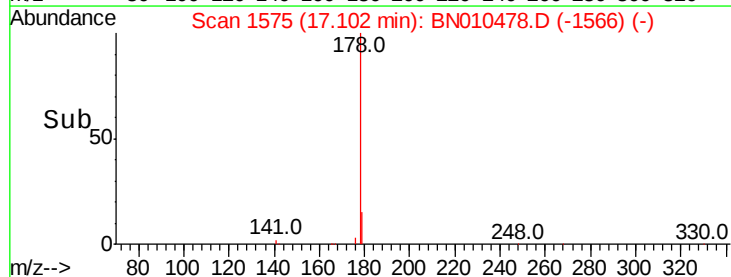
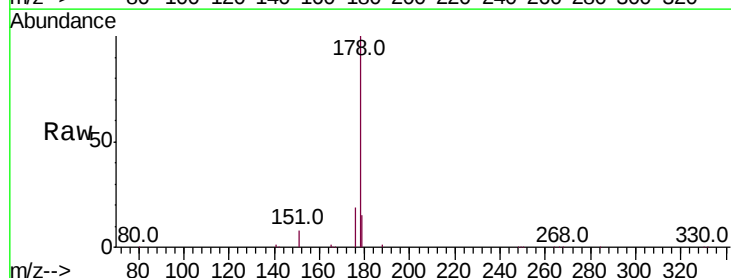
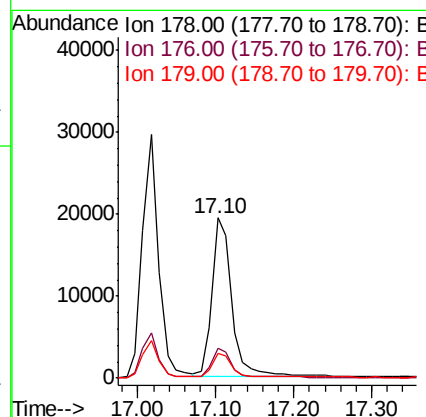
RT: 17.10 min Scan# 1575

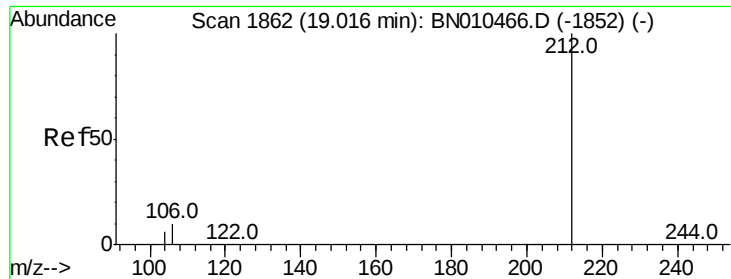
Delta R.T. -0.01 min

Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

Tgt Ion:	178	Resp:	33583
Ion Ratio	Lower	Upper	
178	100		
176	18.2	14.6	21.8
179	15.1	12.2	18.2





#25

Fluoranthene-d10

Concen: 0.067 ng

RT: 19.01 min Scan# 1863

Delta R.T. -0.00 min

Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

Instrument :

BNA_N

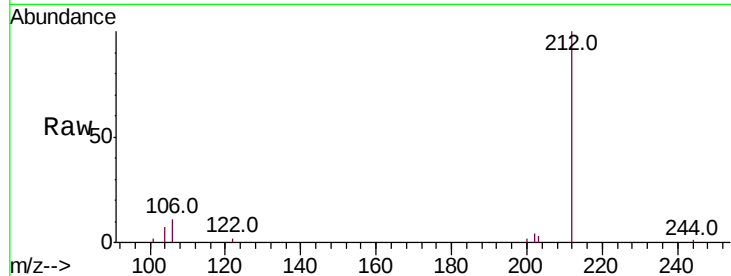
ClientSampleId :

RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
212	100		
106	10.0	7.8	11.6
104	6.2	4.5	6.7

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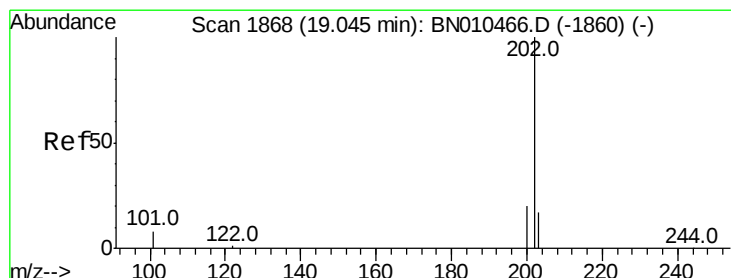
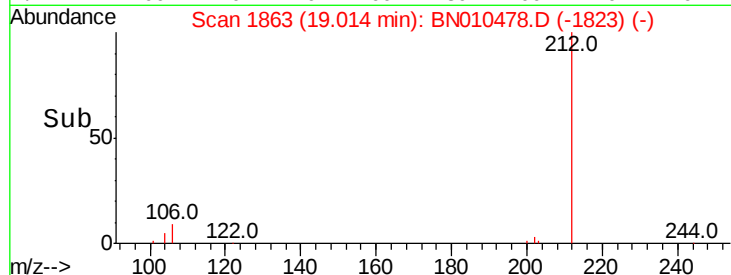
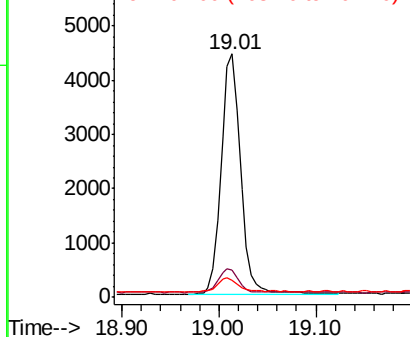
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Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.344 ng

RT: 19.04 min Scan# 1869

Delta R.T. -0.00 min

Lab File: BN010478.D

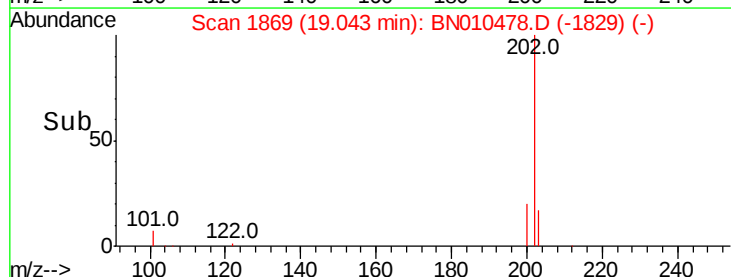
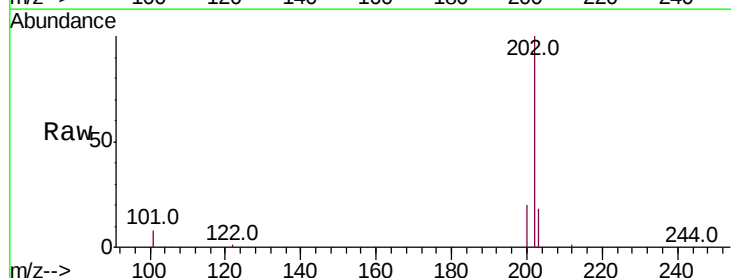
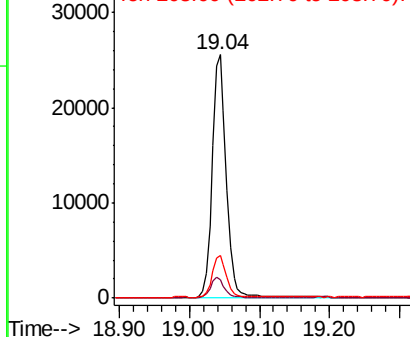
Acq: 14 Apr 2020 14:55

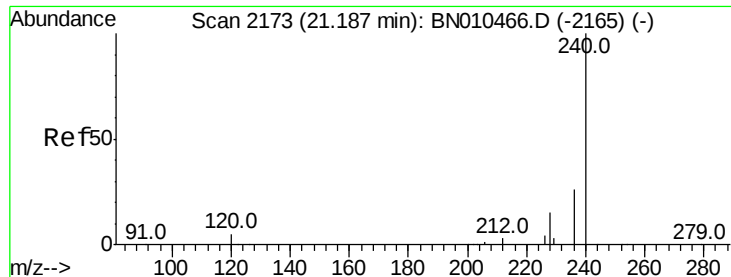
Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.0	6.9	10.3
203	17.3	13.9	20.9

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: 21.17 min Scan# 2173

Delta R.T. -0.01 min

Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

Instrument :

BNA_N

ClientSampled :

RR-PAH-WPDL

Tot Ion:240 Resp: 27244

Ion Ratio Lower Upper

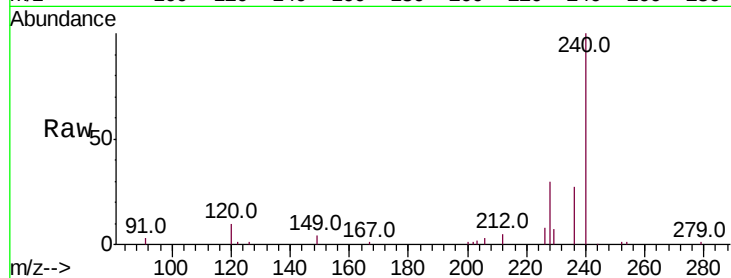
240 100

120 9.7 4.8 7.2#

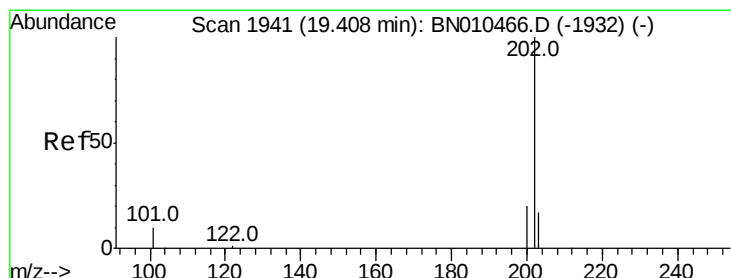
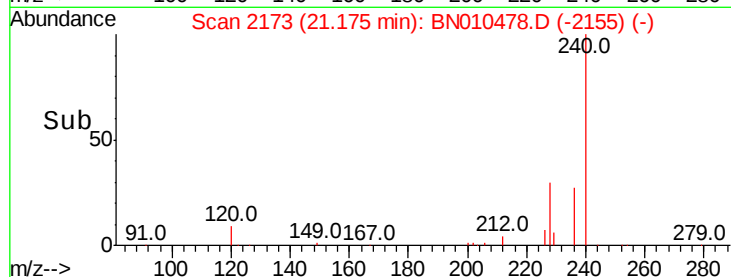
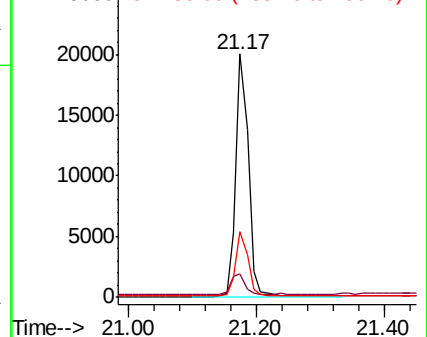
236 27.1 21.4 32.0

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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



#28

Pyrene

Concen: 0.645 ng

RT: 19.41 min Scan# 1942

Delta R.T. -0.00 min

Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

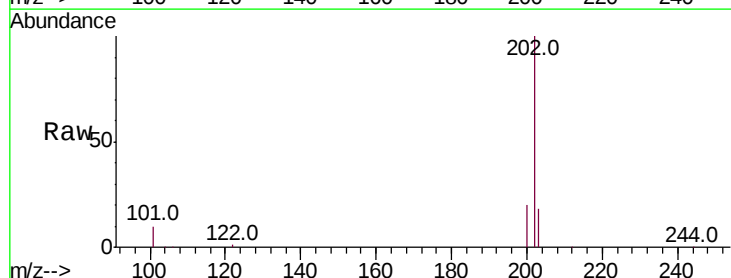
Tgt Ion:202 Resp: 59173

Ion Ratio Lower Upper

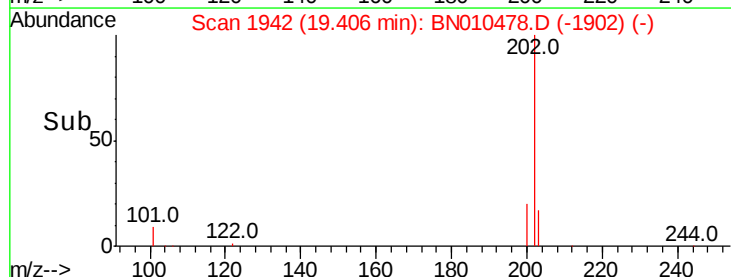
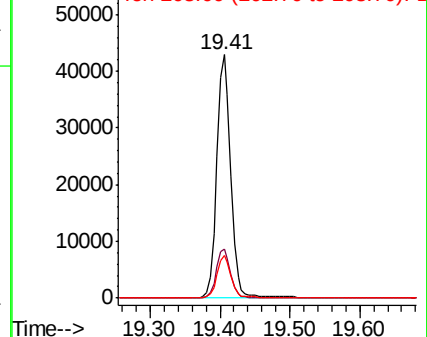
202 100

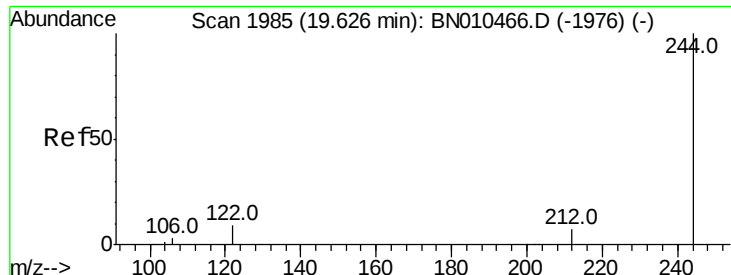
200 20.4 16.3 24.5

203 17.5 14.0 21.0



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.090 ng

RT: 19.62 min Scan# 1986

Delta R.T. -0.00 min

Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

Instrument :

BNA_N

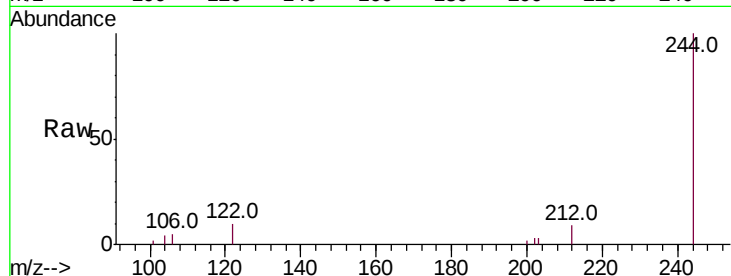
ClientSampleId :

RR-PAH-WPDL

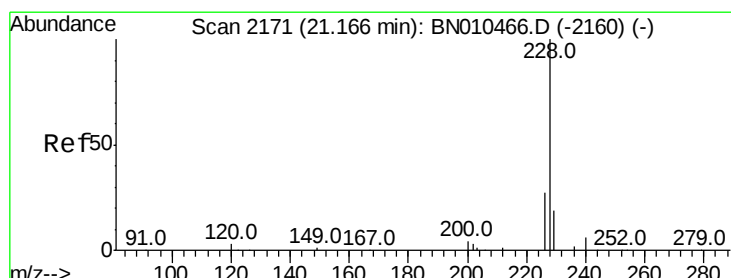
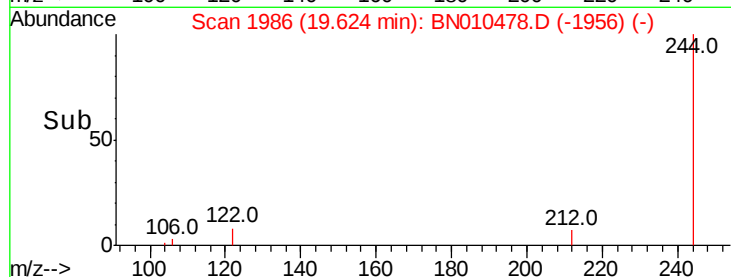
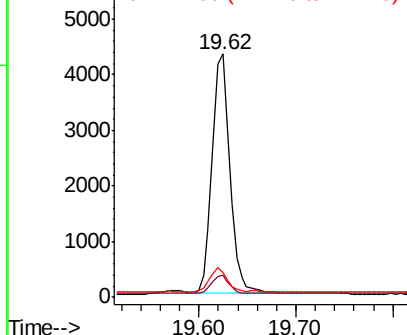
Tot Ion:	244	Resp:	5607
Ion Ratio	Lower	Upper	
244	100		
212	9.0	6.2	9.4
122	10.4	7.8	11.8

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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.312 ng

RT: 21.16 min Scan# 2172

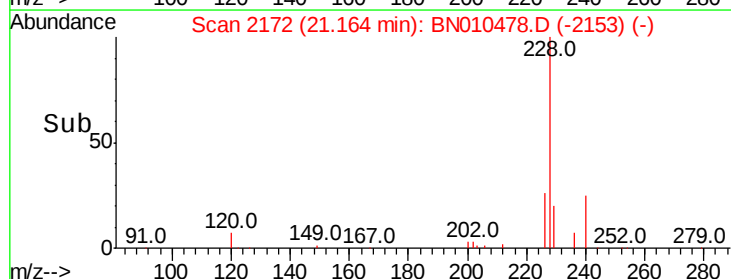
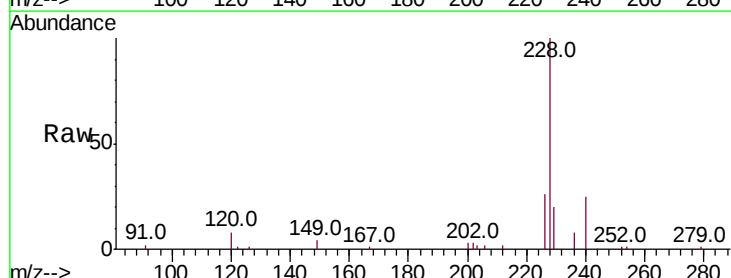
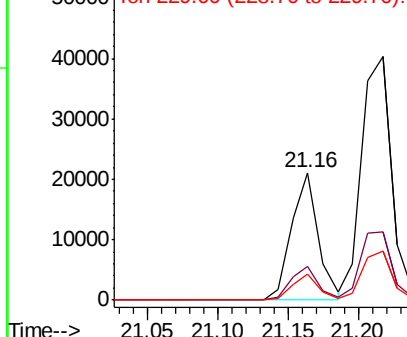
Delta R.T. -0.00 min

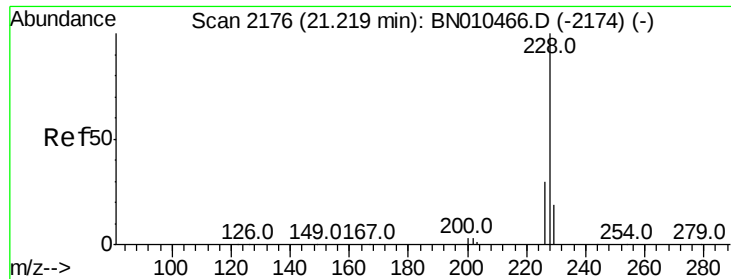
Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

Tgt Ion:	228	Resp:	27760
Ion Ratio	Lower	Upper	
228	100		
226	26.1	21.7	32.5
229	20.0	15.6	23.4

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





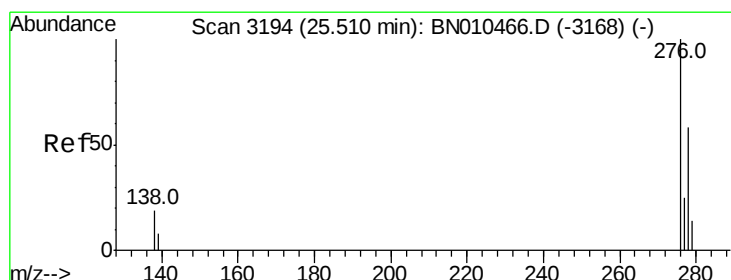
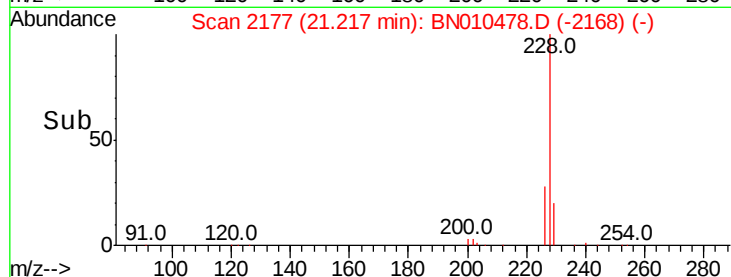
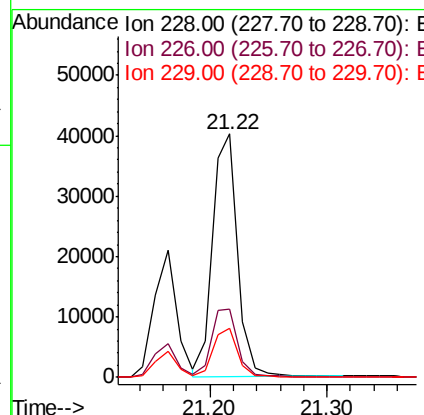
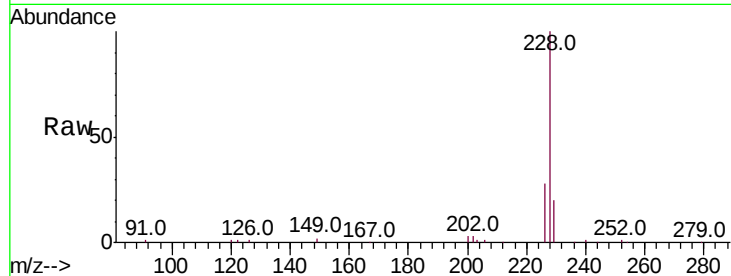
#31
Chrysene
Concen: 0.676 ng
RT: 21.22 min Scan# 2177
Delta R.T. -0.00 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.2	24.0	36.0
229	20.0	15.8	23.6

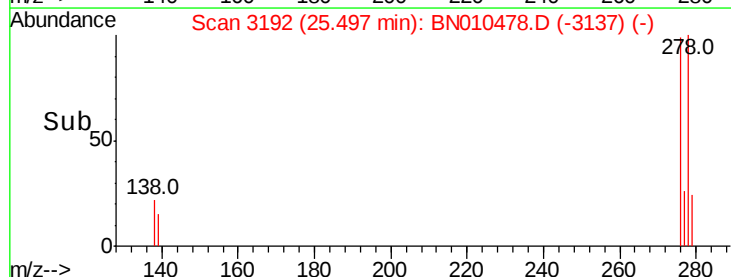
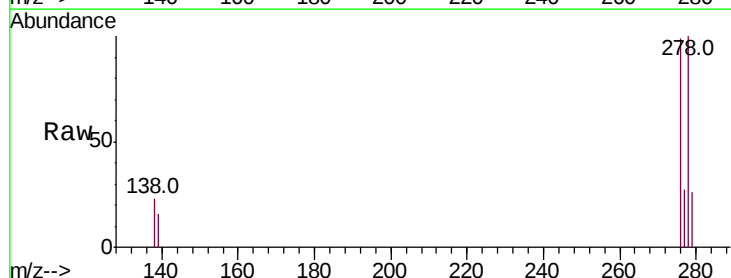
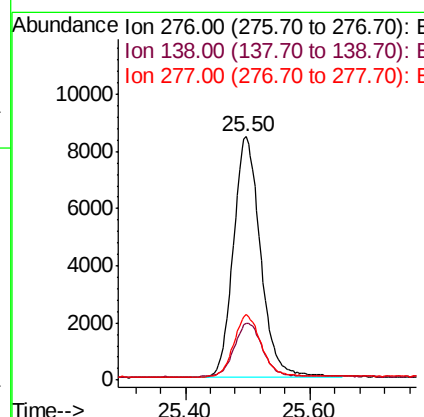
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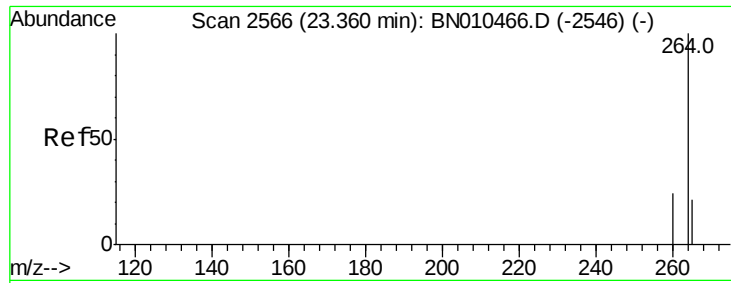
mohammad
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#33
Indeno(1,2,3-cd)pyrene
Concen: 0.328 ng
RT: 25.50 min Scan# 3192
Delta R.T. -0.01 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.1	16.4	24.6
277	25.8	19.8	29.6





#34

Pervlene-d12

Concen: 0.400 ng

RT: 23.35 min Scan# 2565

Delta R.T. -0.01 min

Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

Instrument :

BNA_N

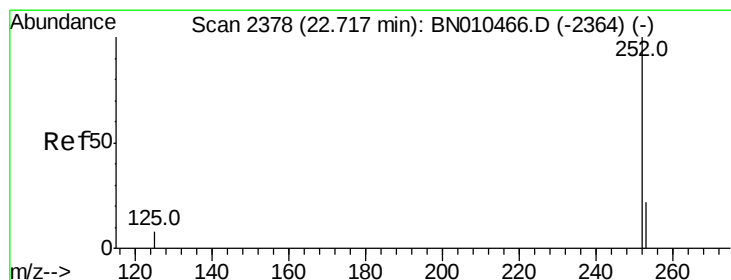
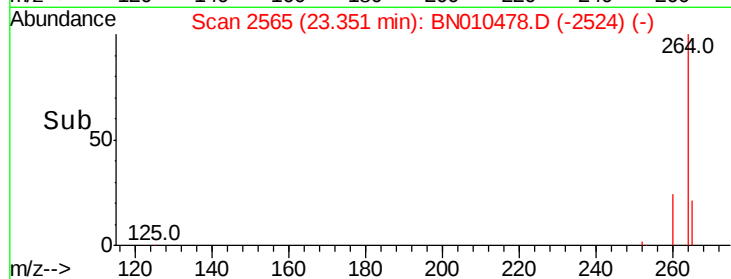
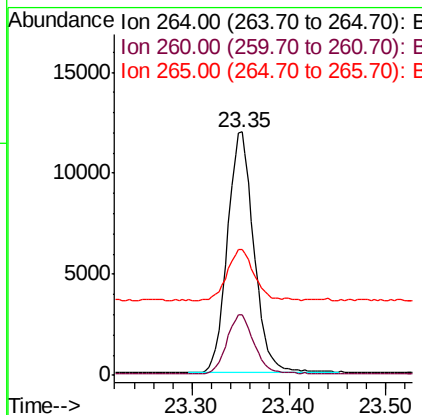
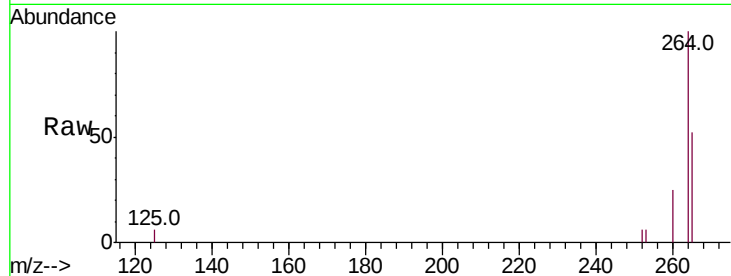
ClientSampleId :

RR-PAH-WPDL

Tot Ion:	264	Resp:	22855
Ion Ratio	Lower	Upper	
264	100		
260	24.8	19.8	29.8
265	51.9	42.3	63.5

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#35

Benzo(b)fluoranthene

Concen: 0.165 ng m

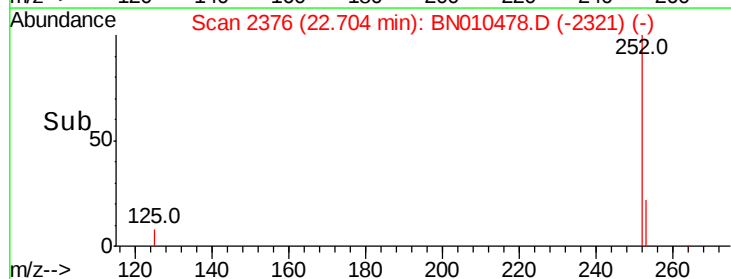
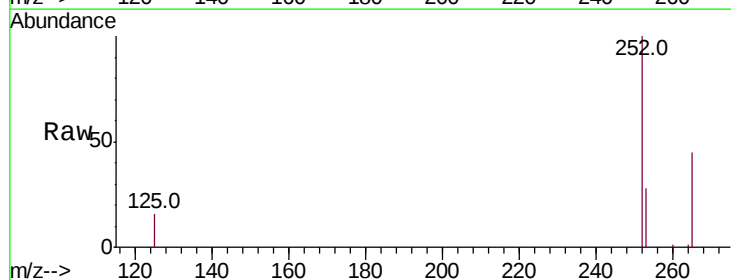
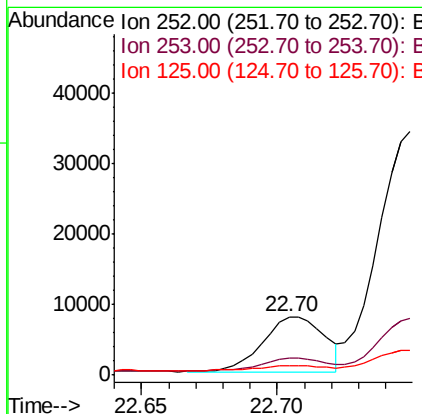
RT: 22.70 min Scan# 2376

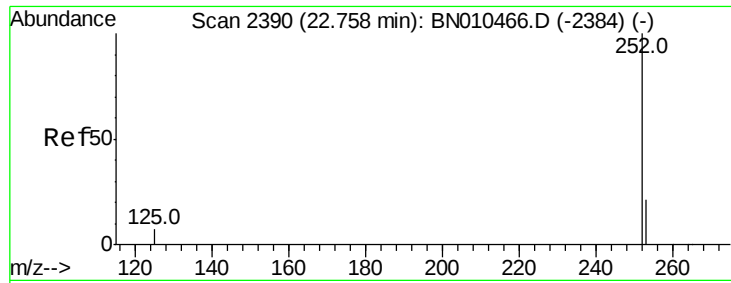
Delta R.T. -0.01 min

Lab File: BN010478.D

Acq: 14 Apr 2020 14:55

Tgt Ion:	252	Resp:	12443
Ion Ratio	Lower	Upper	
252	100		
253	28.2	20.2	30.4
125	15.7	9.2	13.8#





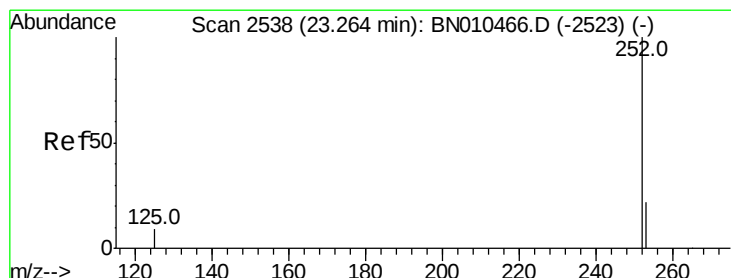
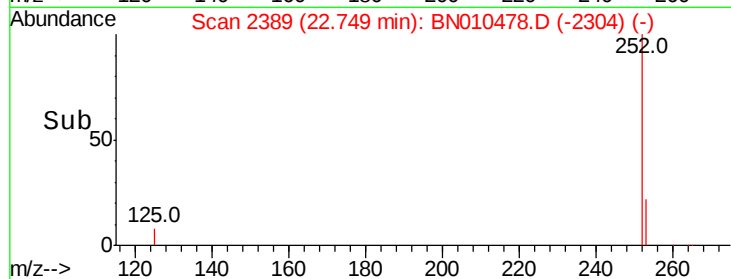
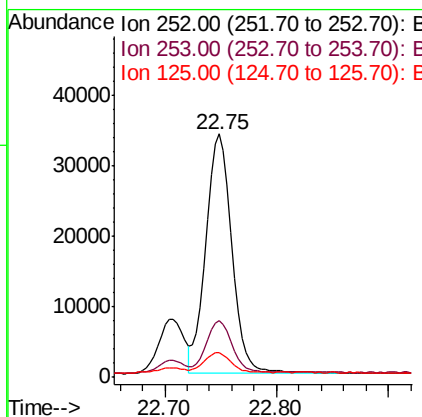
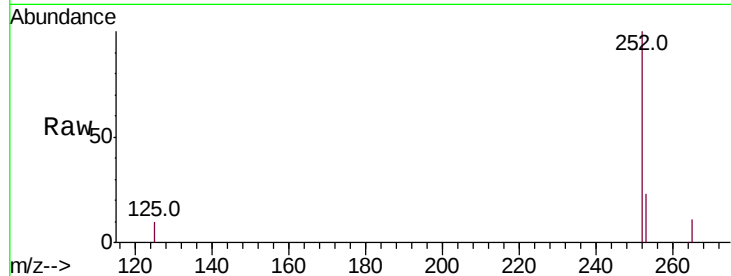
#36
Benzo(k)fluoranthene
Concen: 0.725 ng
RT: 22.75 min Scan# 2389
Delta R.T. -0.01 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	20.1	30.1
125	10.1	9.6	14.4

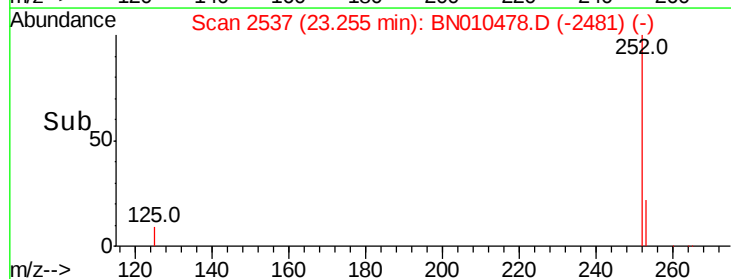
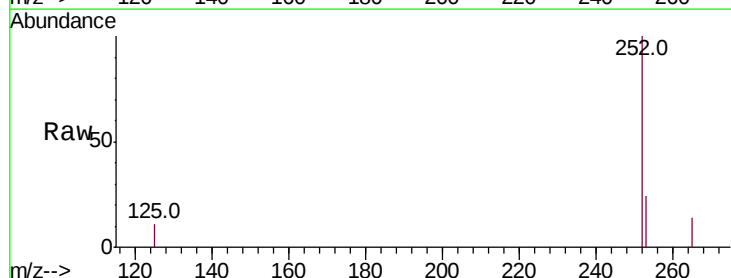
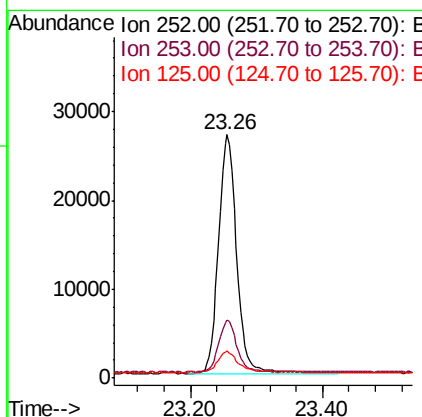
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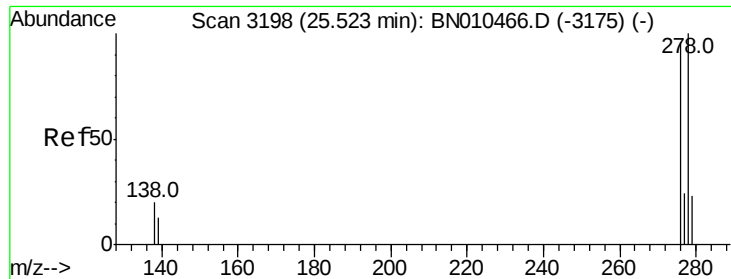
mohammad
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#37
Benzo(a)pyrene
Concen: 0.771 ng
RT: 23.26 min Scan# 2537
Delta R.T. -0.01 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	21.8	32.8
125	11.1	11.0	16.6





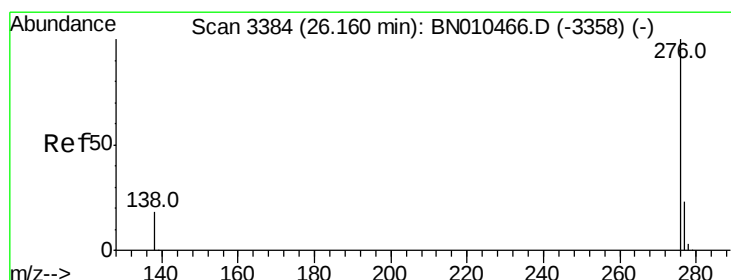
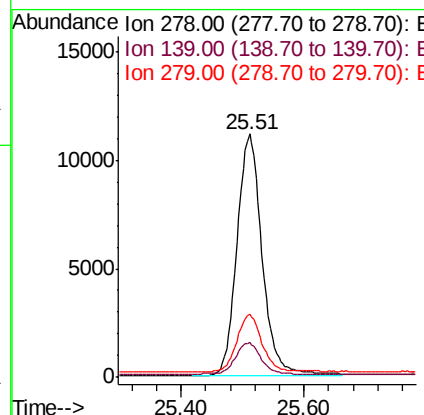
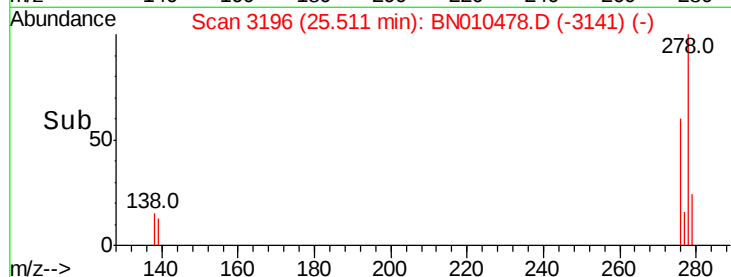
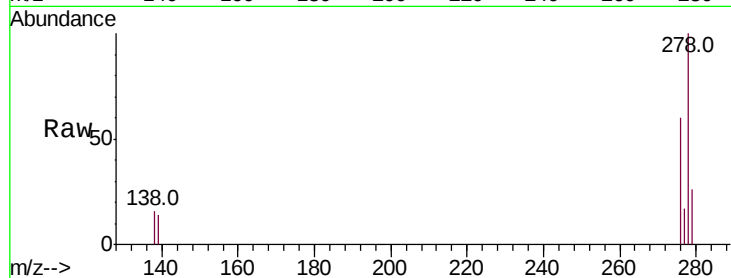
#38
Dibenzo(a,h)anthracene
Concen: 0.519 ng
RT: 25.51 min Scan# 3196
Delta R.T. -0.01 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
278	100		
139	14.3	12.3	18.5
279	26.0	21.9	32.9

Manual Integrations
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#39
Benzo(g,h,i)perylene
Concen: 0.779 ng
RT: 26.14 min Scan# 3381
Delta R.T. -0.02 min
Lab File: BN010478.D
Acq: 14 Apr 2020 14:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	20.2	30.2
138	18.1	15.4	23.2

