

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN041420\
 Data File : BN010477.D
 Acq On : 14 Apr 2020 14:18
 Operator : CG/JU
 Sample : L1798-21DL 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Manual Integrations
 APPROVED

mohammad
 4/15/2020 3:32:20 PM

Quant Time: Apr 14 14:50:04 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	5136	0.40	ng	0.00
7) Naphthalene-d8	10.37	136	21156	0.40	ng	0.00
13) Acenaphthene-d10	14.22	164	13644	0.40	ng	0.00
19) Phenanthrene-d10	16.97	188	32052	0.40	ng	0.00
27) Chrysene-d12	21.17	240	30963	0.40	ng	-0.01
34) Perylene-d12	23.35	264	25815	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.25	112	1258	0.11	ng	0.00
5) Phenol-d6	6.79	99	1638	0.11	ng	0.00
8) Nitrobenzene-d5	8.74	82	1010	0.07	ng	0.00
11) 2-Methylnaphthalene-d10	11.96	152	2250	0.06	ng	0.00
14) 2,4,6-Tribromophenol	15.73	330	994	0.15	ng	0.00
15) 2-Fluorobiphenyl	12.84	172	3510	0.07	ng	0.00
25) Fluoranthene-d10	19.01	212	6306	0.06	ng	0.00
29) Terphenyl-d14	19.62	244	5940	0.08	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.41	128	39945	0.760	ng	99
16) Acenaphthylene	13.95	152	43591	0.740	ng	100
17) Acenaphthene	14.29	154	107827	2.847	ng	99
18) Fluorene	15.28	166	56103	1.131	ng	100
23) Phenanthrene	17.02	178	42974	0.496	ng	100
24) Anthracene	17.10	178	32933	0.416	ng	100
26) Fluoranthene	19.04	202	35890	0.333	ng	99
28) Pyrene	19.41	202	60687	0.582	ng	100
30) Benzo(a)anthracene	21.16	228	29158	0.289	ng	99
31) Chrysene	21.22	228	64017	0.636	ng	98
33) Indeno(1,2,3-cd)pyrene	25.50	276	27732	0.312	ng	97
35) Benzo(b)fluoranthene	22.70	252	14178m	0.167	ng	
36) Benzo(k)fluoranthene	22.75	252	59212	0.695	ng	96
37) Benzo(a)pyrene	23.26	252	54801	0.728	ng	# 93
38) Dibenzo(a,h)anthracene	25.51	278	34002	0.494	ng	97
39) Benzo(g,h,i)perylene	26.15	276	51189	0.739	ng	97

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

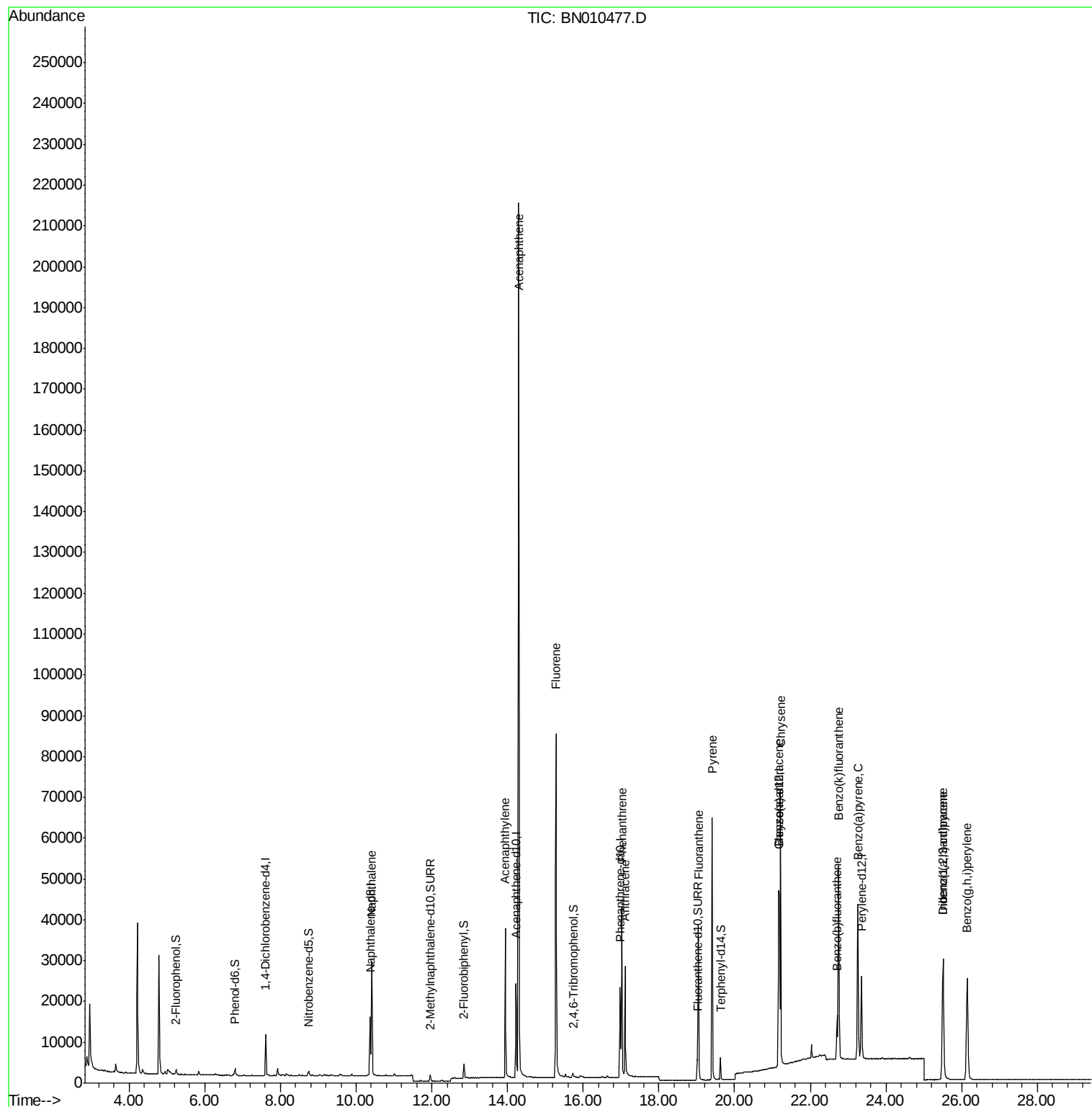
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN041420\
Data File : BN010477.D
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 13 18:04:22 2020
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#1

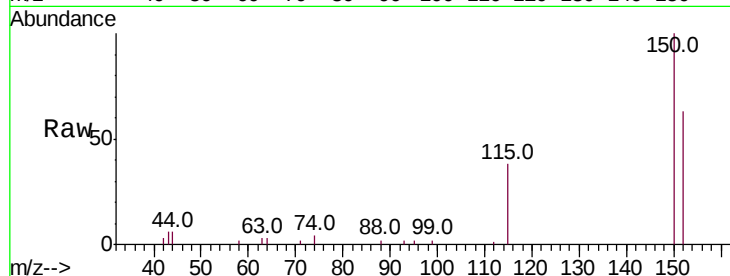
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.61 min Scan# 593
Delta R.T. -0.01 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	121.8	182.6
115	60.7	45.5	68.3

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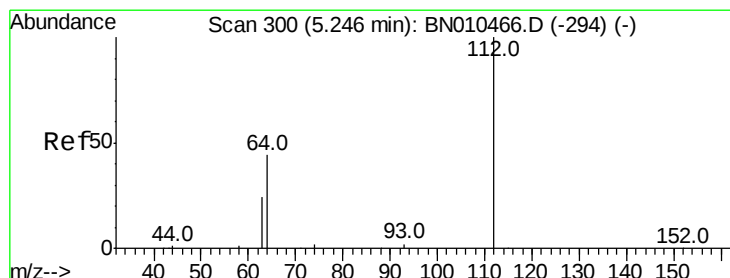
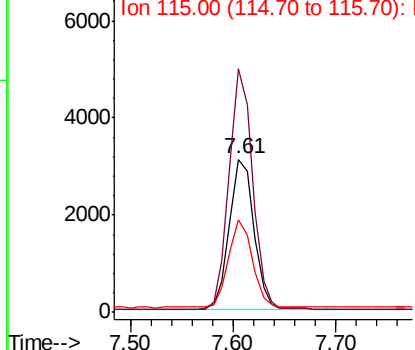
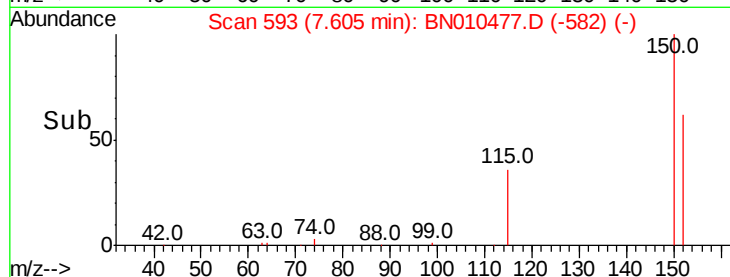


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

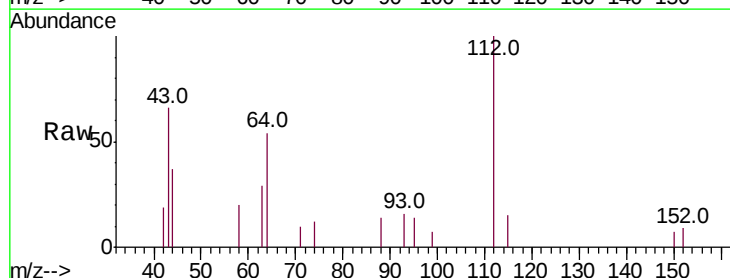
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.112 ng
RT: 5.25 min Scan# 300
Delta R.T. -0.00 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	45.1	35.8	53.8
63	23.7	19.9	29.9

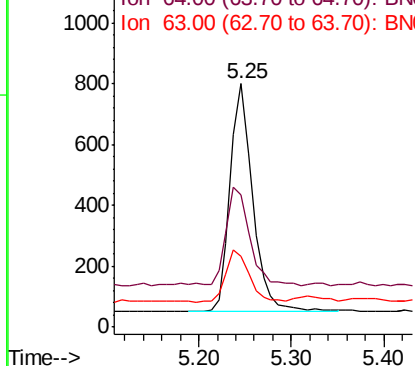
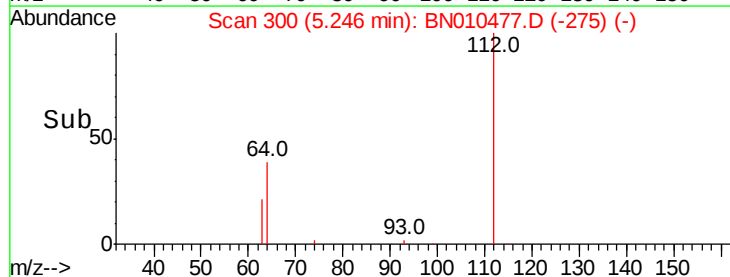


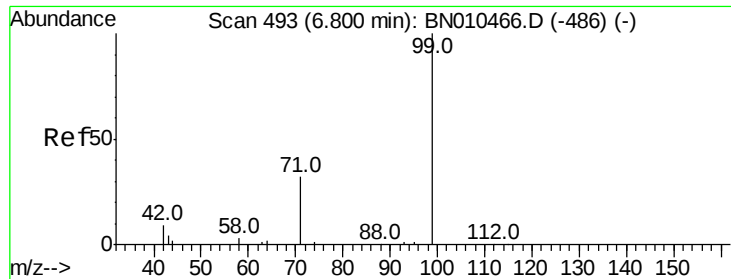
Abundance

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: 0.111 ng

RT: 6.79 min Scan# 492

Delta R.T. -0.01 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

Instrument :

BNA_N

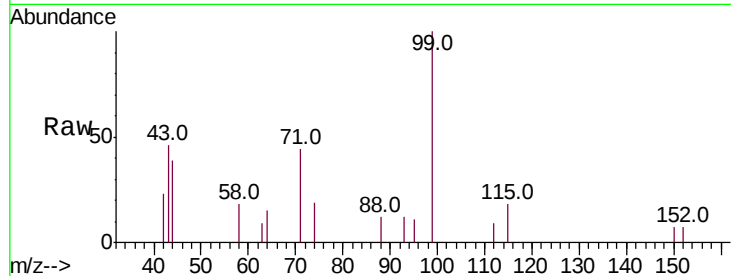
ClientSampleId :

RR-PAH-WPDL

Tot Ion:	99	Resp:	1638
Ion	Ratio	Lower	Upper
99	100		
42	14.2	9.8	14.6
71	37.6	27.8	41.8

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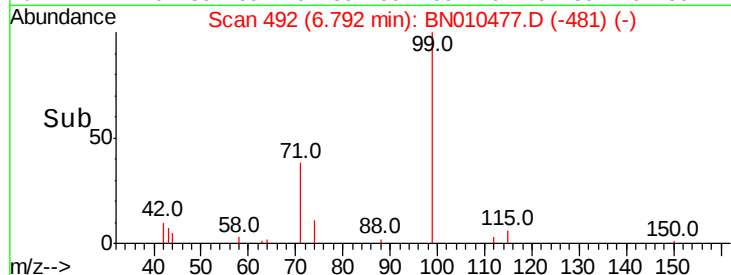


Abundance Ion 99.00 (98.70 to 99.70): BN010466.D (-486) (-)

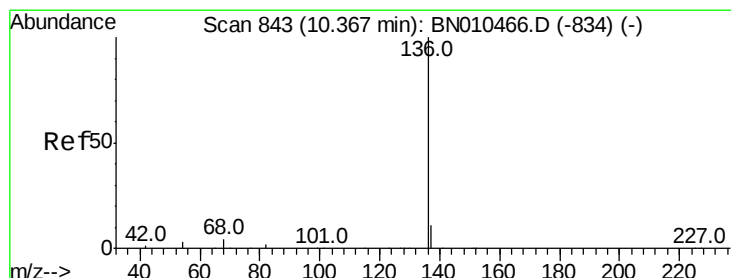
Ion 42.00 (41.70 to 42.70): BN010466.D (-486) (-)

Ion 71.00 (70.70 to 71.70): BN010466.D (-486) (-)

Time-->



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.37 min Scan# 843

Delta R.T. -0.00 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

Tgt Ion:	136	Resp:	21156
Ion	Ratio	Lower	Upper
136	100		
137	11.6	8.9	13.3
54	3.0	2.6	4.0
68	3.9	3.4	5.2

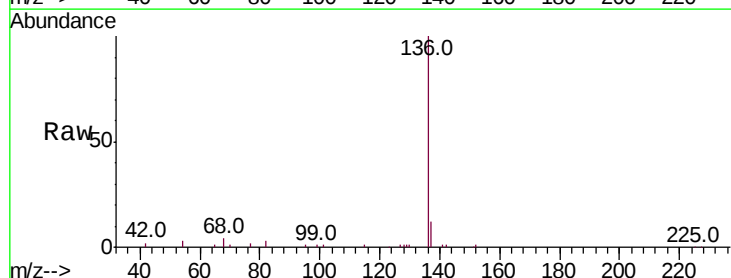
Abundance Ion 136.00 (135.70 to 136.70): BN010466.D (-834) (-)

Ion 137.00 (136.70 to 137.70): BN010466.D (-834) (-)

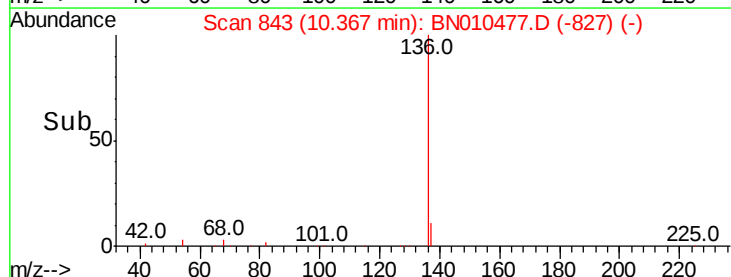
Ion 54.00 (53.70 to 54.70): BN010466.D (-834) (-)

Ion 68.00 (67.70 to 68.70): BN010466.D (-834) (-)

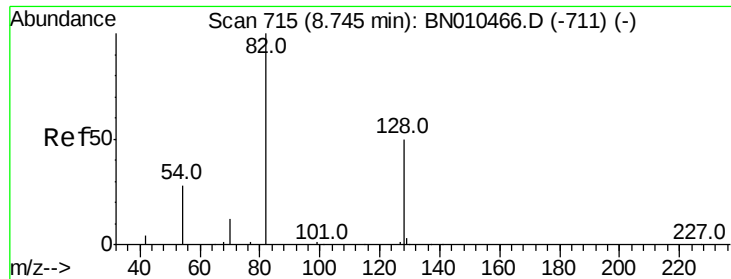
Time-->



Time-->



Time-->



#8

Nitrobenzene-d5

Concen: 0.068 ng

RT: 8.74 min Scan# 715

Delta R.T. -0.00 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

Instrument :

BNA_N

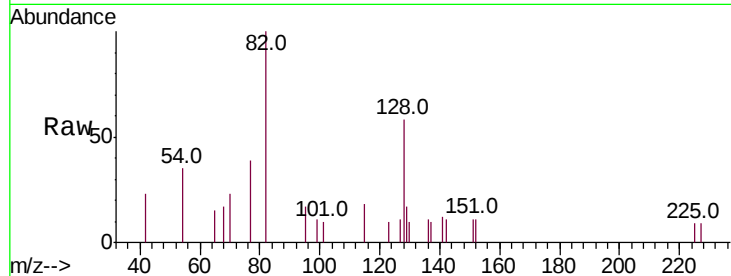
ClientSampleId :

RR-PAH-WPDL

Tot Ion:	82	Resp:	1010
Ion Ratio	Lower	Upper	
82	100		
128	57.6	41.3	61.9
54	35.4	23.4	35.0#

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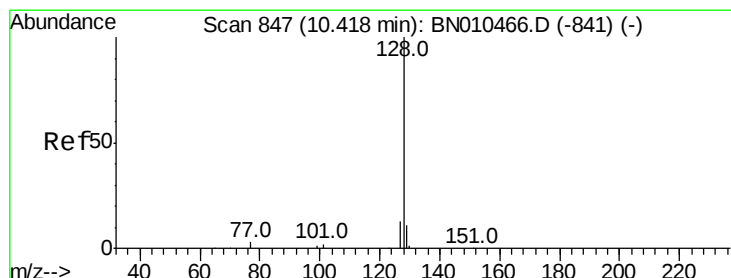
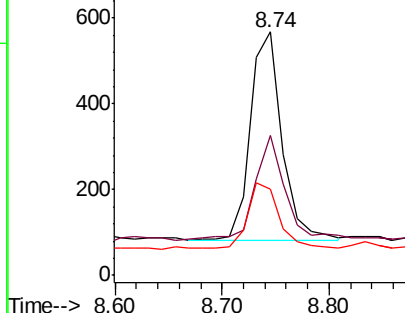
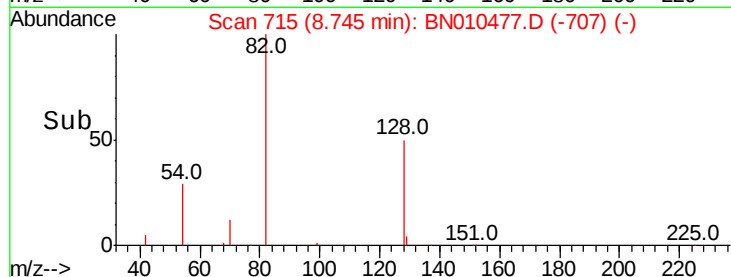


Abundance Ion 82.00 (81.70 to 82.70): BN010466.D (-711) (-)

Ion 128.00 (127.70 to 128.70): BN010466.D (-711) (-)

Ion 54.00 (53.70 to 54.70): BN010466.D (-711) (-)

Time--> 8.60 8.70 8.80



#9

Naphthalene

Concen: 0.760 ng

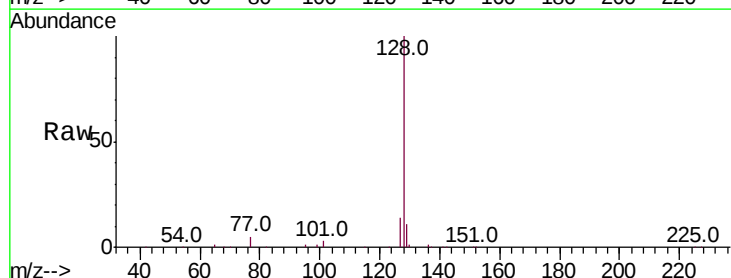
RT: 10.41 min Scan# 846

Delta R.T. -0.01 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

Tgt Ion:	128	Resp:	39945
Ion Ratio	Lower	Upper	
128	100		
129	11.2	9.3	13.9
127	13.8	10.5	15.7

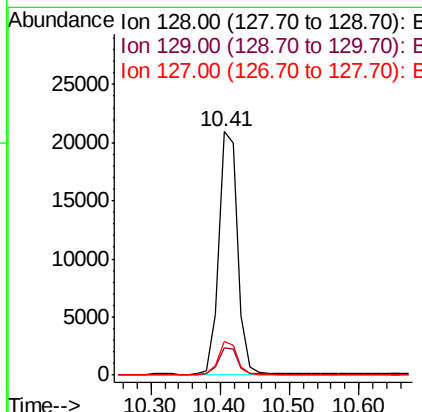
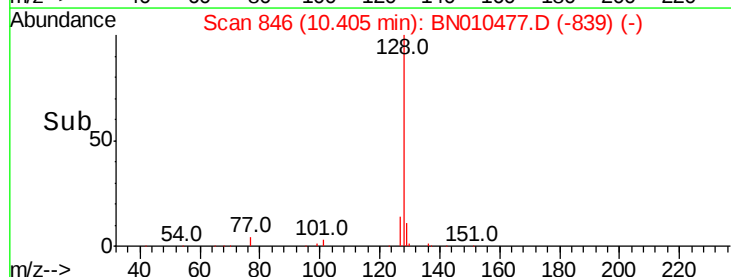


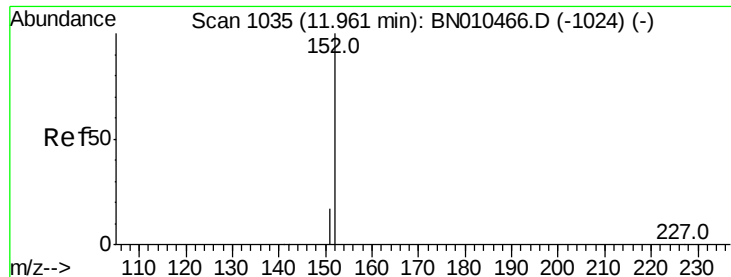
Abundance Ion 128.00 (127.70 to 128.70): BN010466.D (-841) (-)

Ion 129.00 (128.70 to 129.70): BN010466.D (-841) (-)

Ion 127.00 (126.70 to 127.70): BN010466.D (-841) (-)

Time--> 10.30 10.40 10.50 10.60





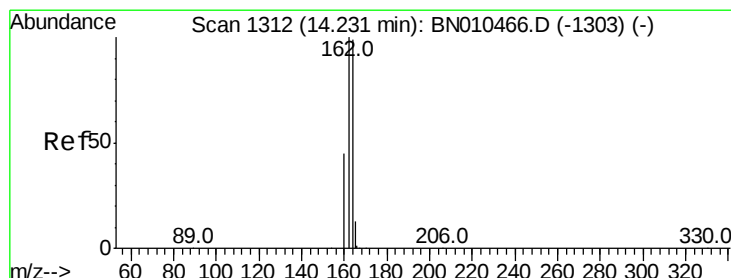
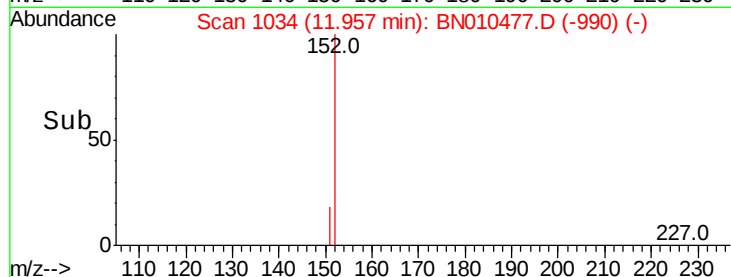
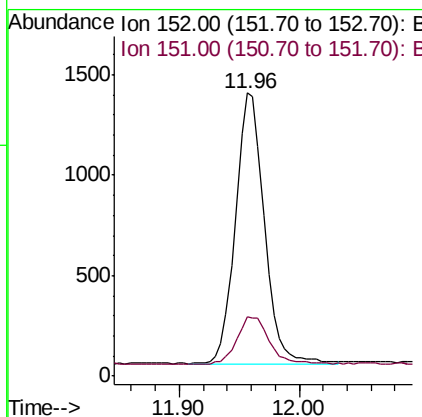
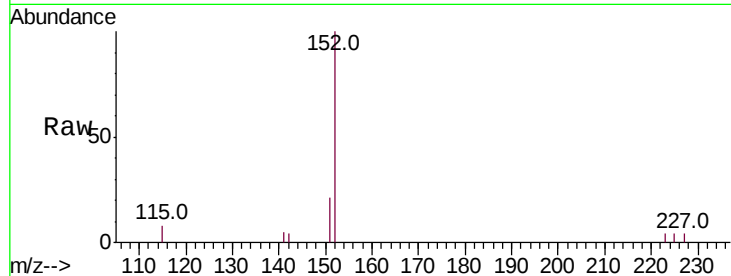
#11
2-Methylnaphthalene-d10
Concen: 0.065 ng
RT: 11.96 min Scan# 1034
Delta R.T. -0.00 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.3	22.9

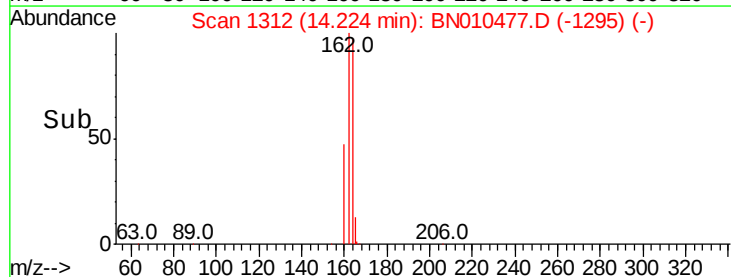
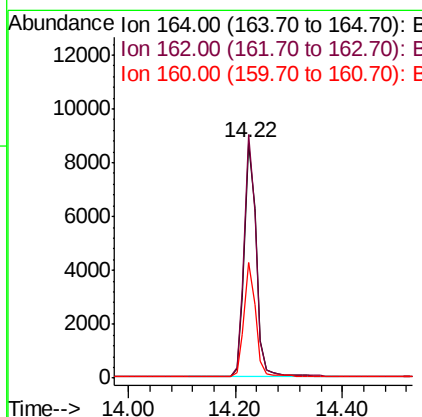
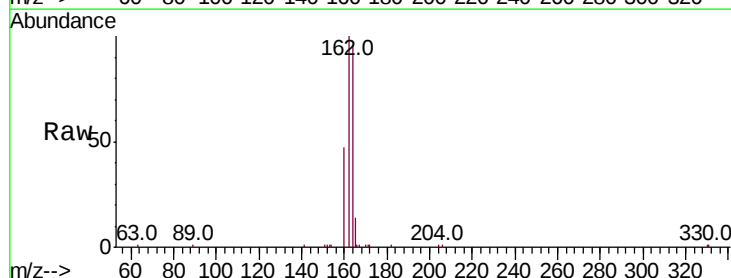
Manual Integrations
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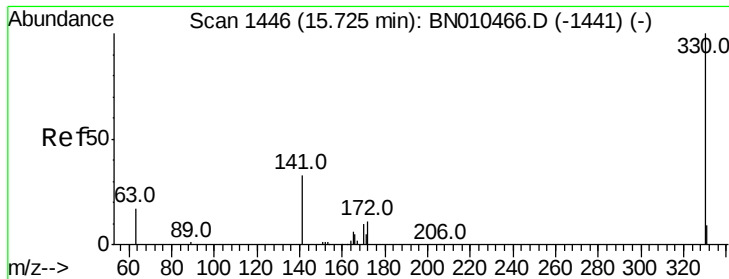
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#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.22 min Scan# 1312
Delta R.T. -0.01 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	80.6	121.0
160	49.1	36.5	54.7





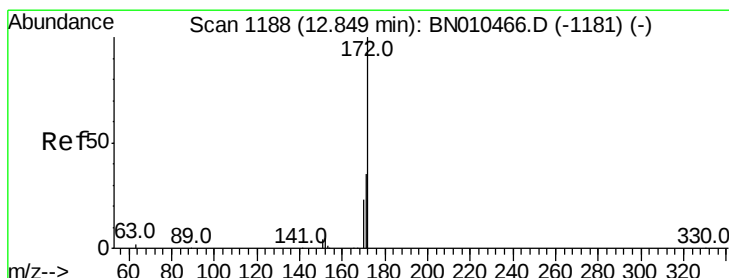
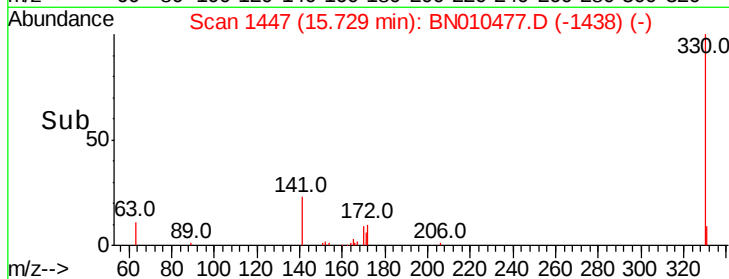
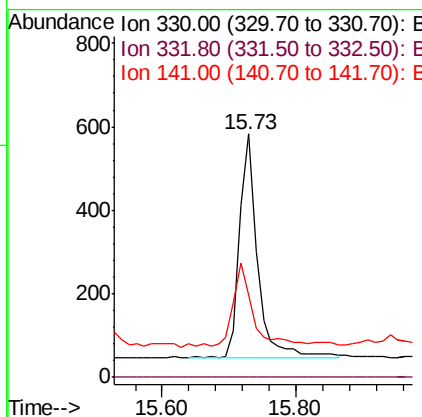
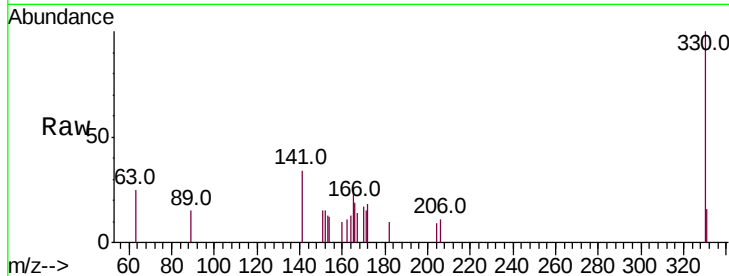
#14
 2,4,6-Tribromophenol
 Concen: 0.155 ng
 RT: 15.73 min Scan# 1447
 Delta R.T. 0.00 min
 Lab File: BN010477.D
 Acq: 14 Apr 2020 14:18

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	39.1	28.1	42.1

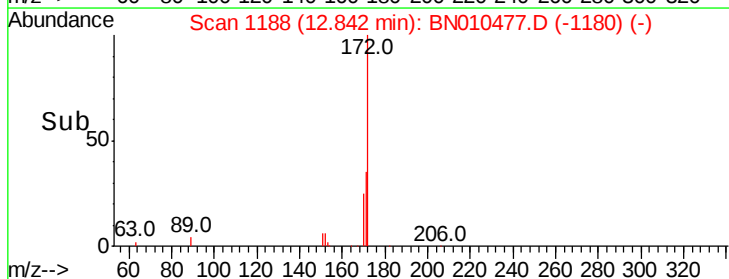
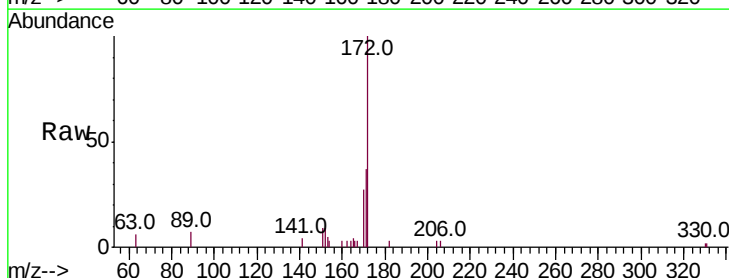
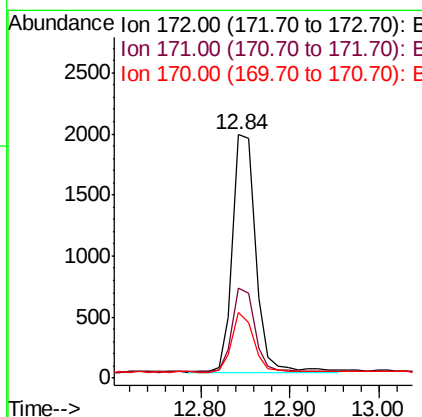
Manual Integrations
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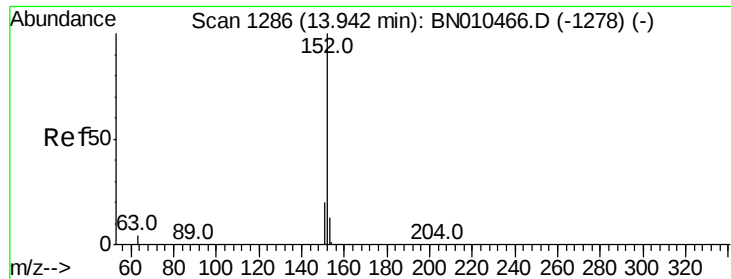
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#15
 2-Fluorobiphenyl
 Concen: 0.071 ng
 RT: 12.84 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BN010477.D
 Acq: 14 Apr 2020 14:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.1	28.2	42.2
170	27.2	18.4	27.6





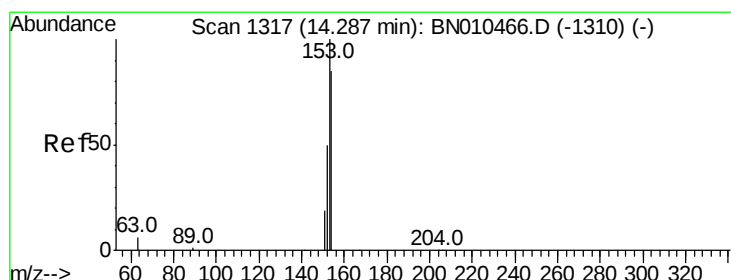
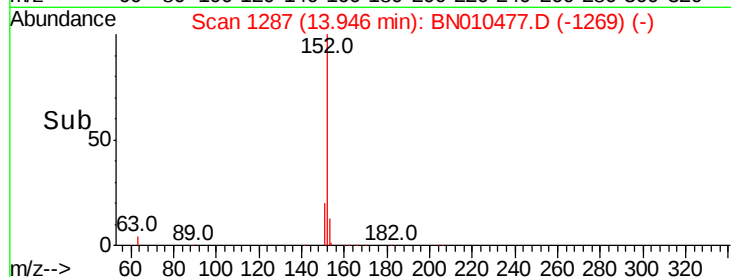
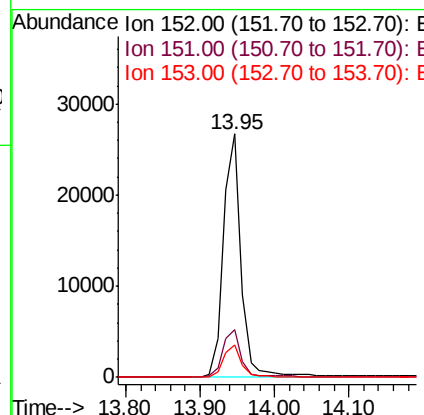
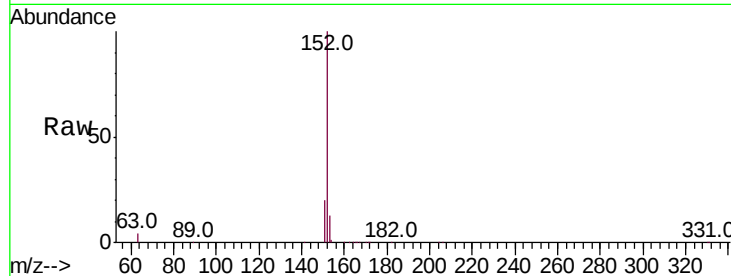
#16
Acenaphthylene
Concen: 0.740 ng
RT: 13.95 min Scan# 1287
Delta R.T. 0.00 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.7	23.5
153	13.1	10.6	15.8

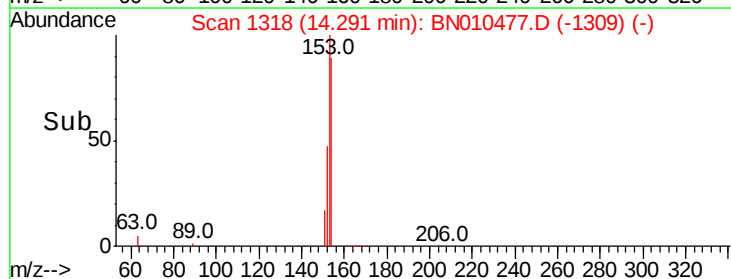
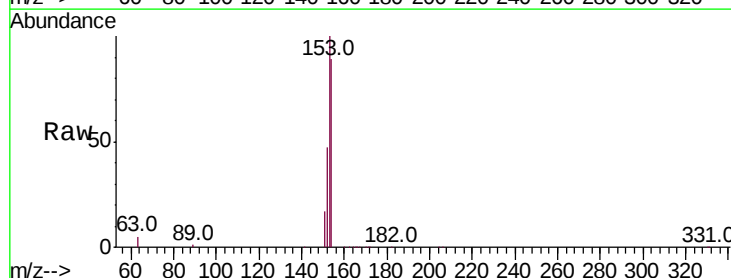
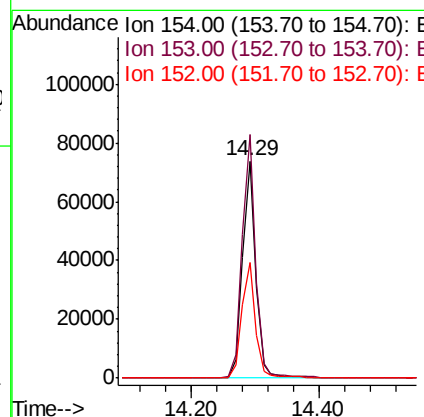
Manual Integrations
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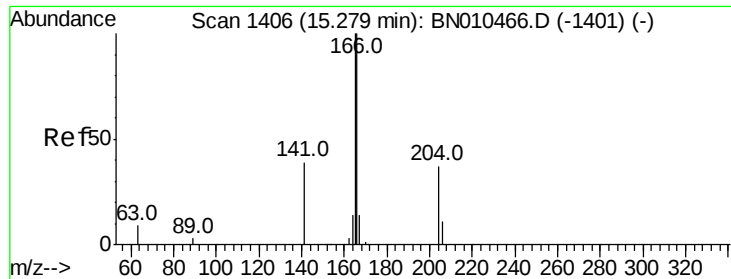
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#17
Acenaphthene
Concen: 2.847 ng
RT: 14.29 min Scan# 1318
Delta R.T. 0.00 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.3	91.0	136.4
152	54.8	44.6	67.0





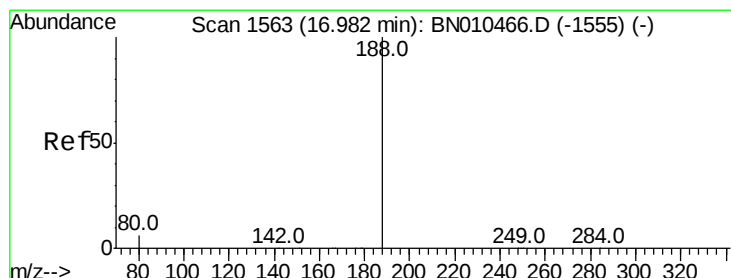
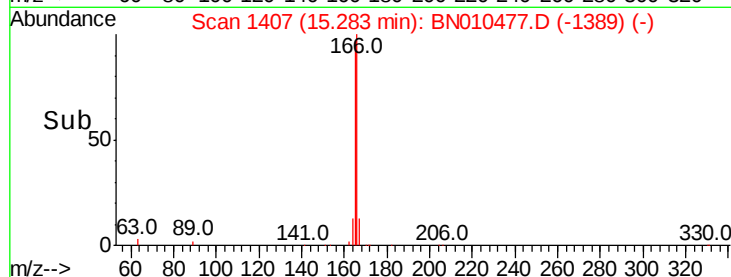
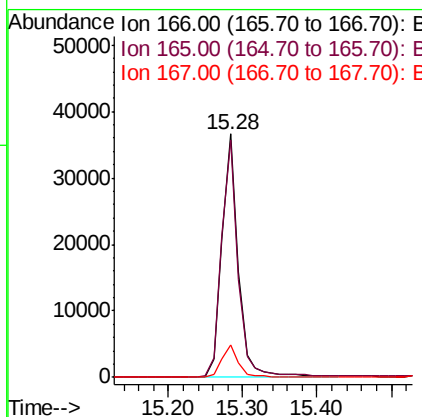
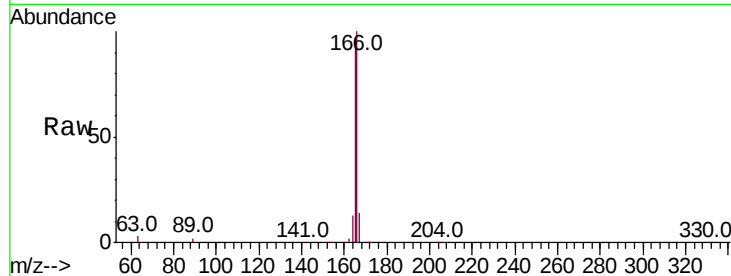
#18
Fluorene
 Concen: 1.131 ng
 RT: 15.28 min Scan# 1407
 Delta R.T. 0.00 min
 Lab File: BN010477.D
 Acq: 14 Apr 2020 14:18

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

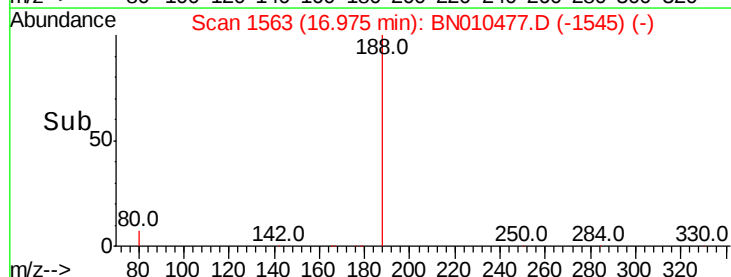
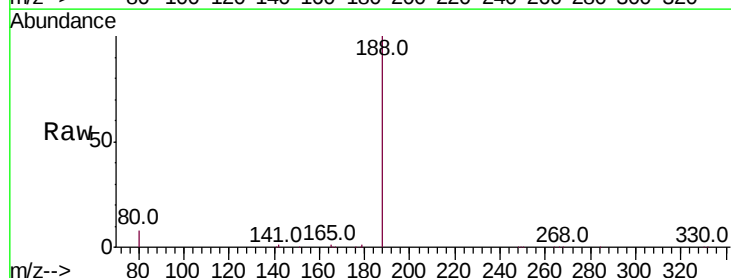
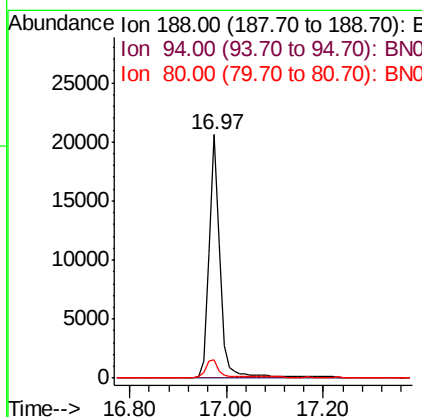
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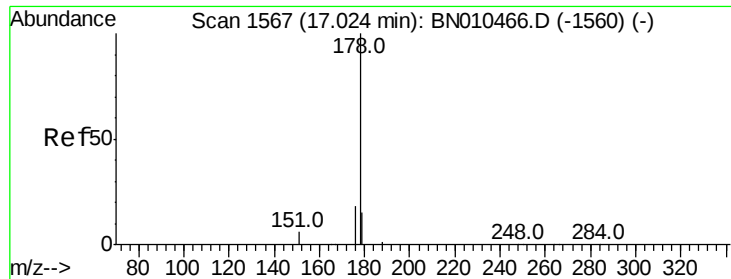
mohammad
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#19
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.97 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: BN010477.D
 Acq: 14 Apr 2020 14:18

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





#23

Phenanthrene

Concen: 0.496 ng

RT: 17.02 min Scan# 1567

Delta R.T. -0.01 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

Instrument :

BNA_N

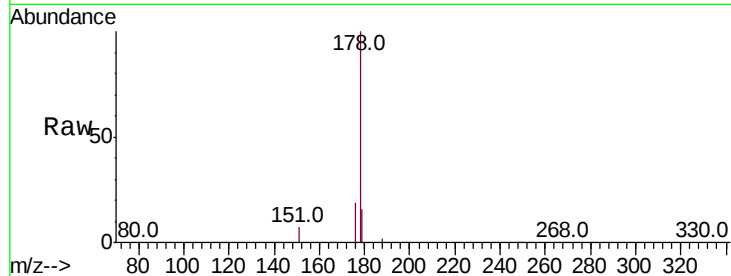
ClientSampleId :

RR-PAH-WPDL

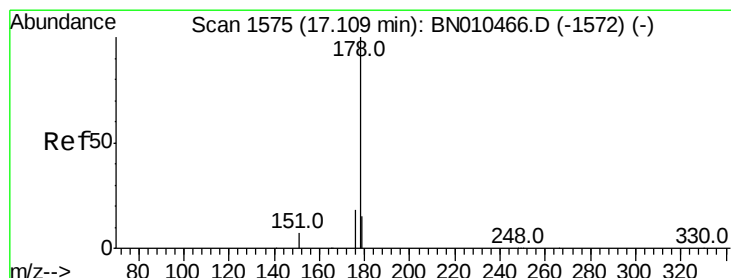
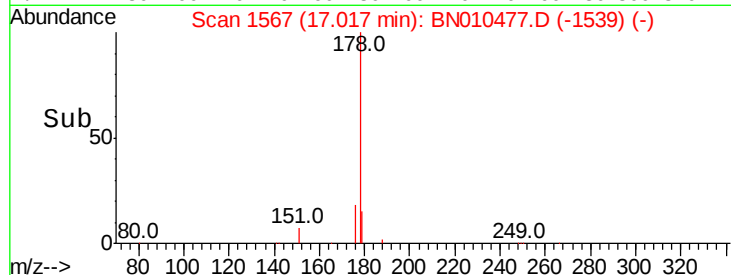
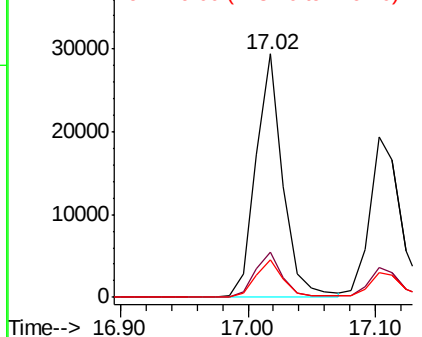
Tot Ion:178	Resp:	42974
Ion Ratio	Lower	Upper
178	100	
176	18.6	15.0 22.4
179	15.5	12.6 18.8

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.416 ng

RT: 17.10 min Scan# 1575

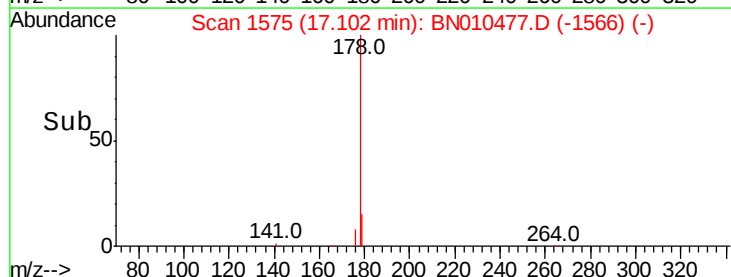
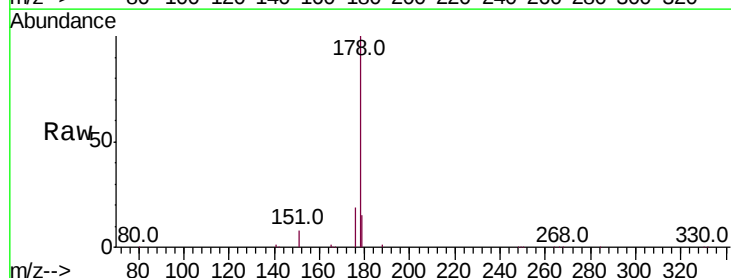
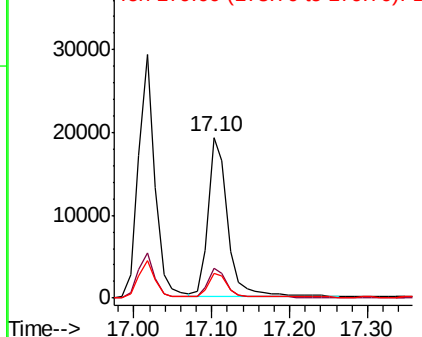
Delta R.T. -0.01 min

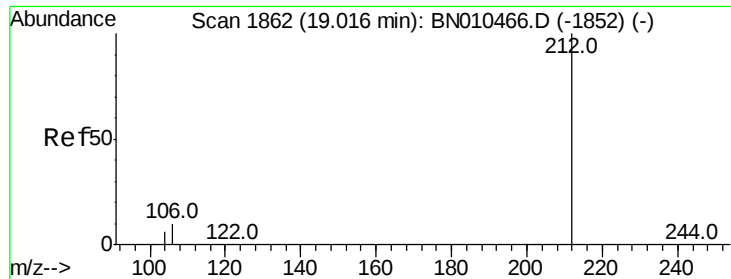
Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

Tgt Ion:178	Resp:	32933
Ion Ratio	Lower	Upper
178	100	
176	18.1	14.6 21.8
179	15.3	12.2 18.2

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.065 ng

RT: 19.01 min Scan# 1863

Delta R.T. -0.00 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

Instrument :

BNA_N

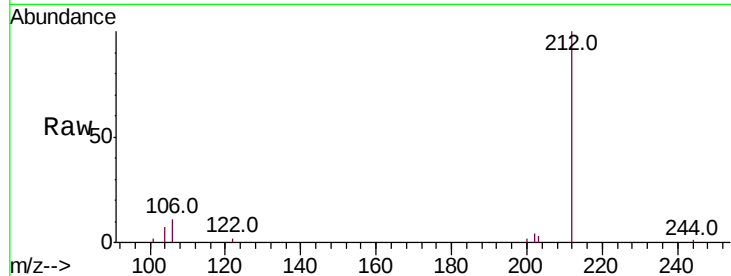
ClientSampleId :

RR-PAH-WPDL

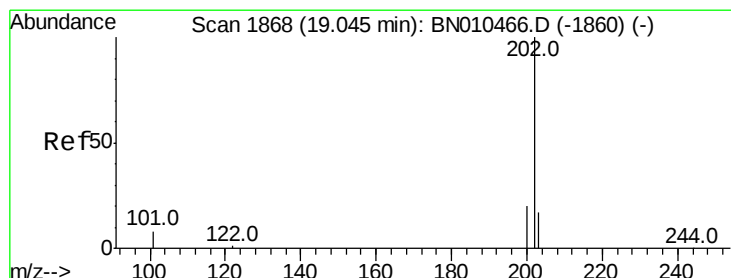
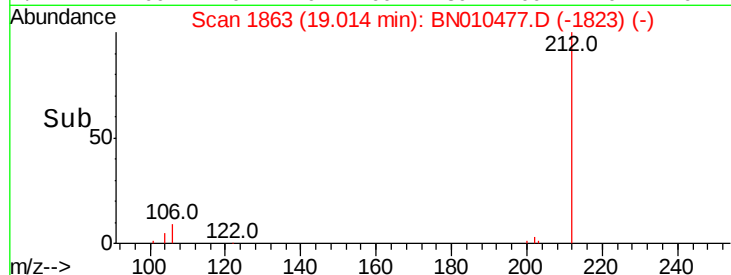
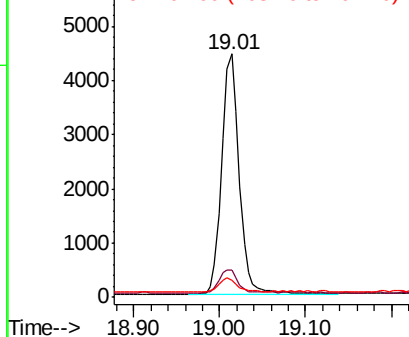
Tot Ion:	212	Resp:	6306
Ion Ratio	Lower	Upper	
212	100		
106	10.3	7.8	11.6
104	6.3	4.5	6.7

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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: 0.333 ng

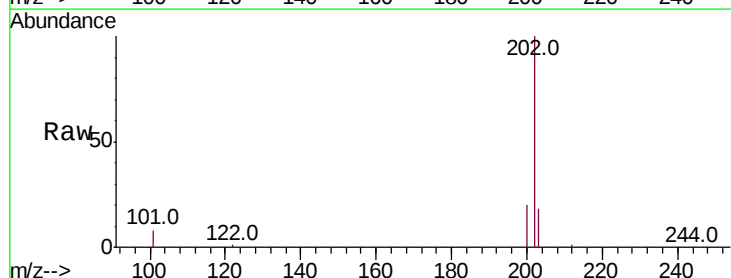
RT: 19.04 min Scan# 1869

Delta R.T. -0.00 min

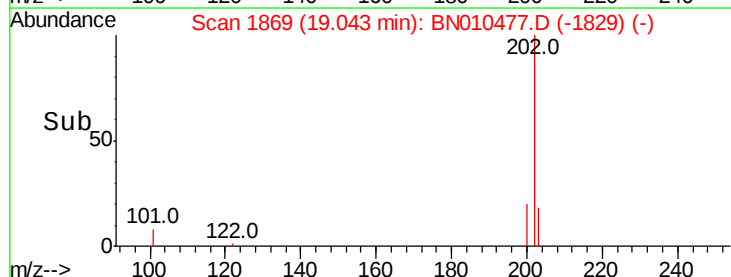
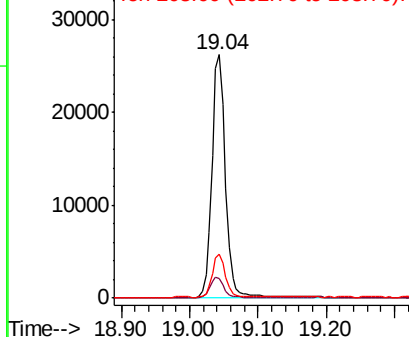
Lab File: BN010477.D

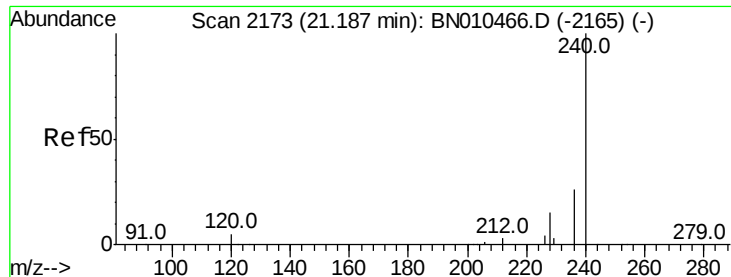
Acq: 14 Apr 2020 14:18

Tgt Ion:	202	Resp:	35890
Ion Ratio	Lower	Upper	
202	100		
101	8.2	6.9	10.3
203	17.2	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





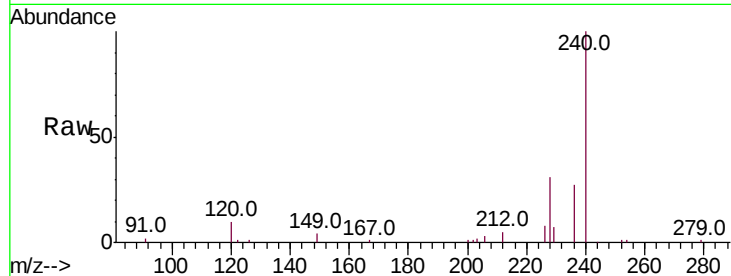
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.17 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.0	4.8	7.2#
236	27.3	21.4	32.0

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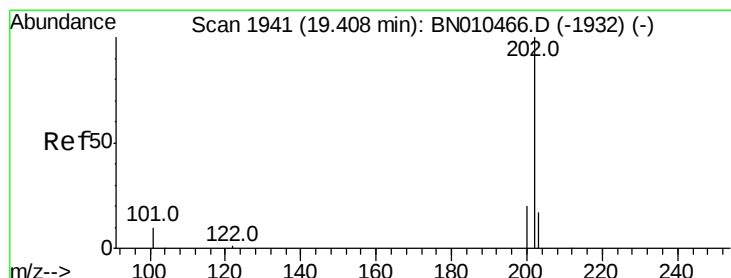
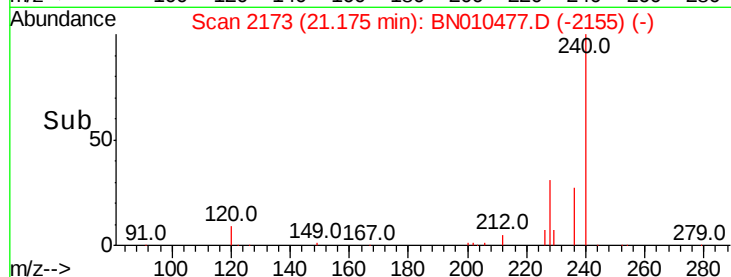
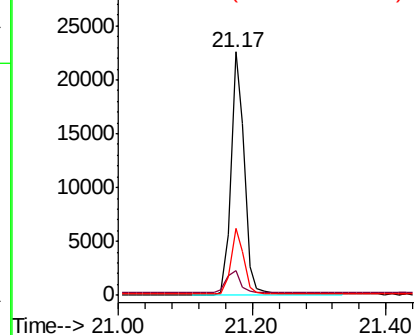


Abundance

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: 0.582 ng
RT: 19.41 min Scan# 1942
Delta R.T. -0.00 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

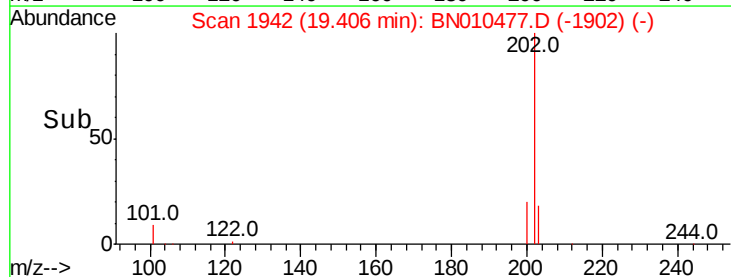
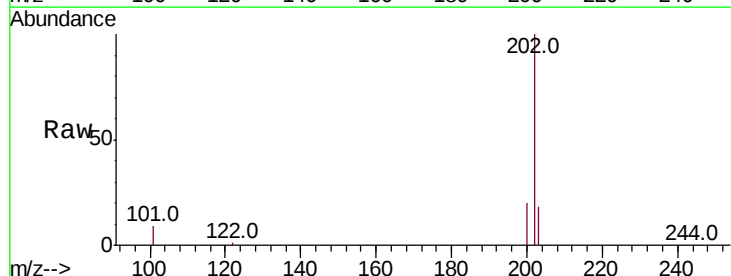
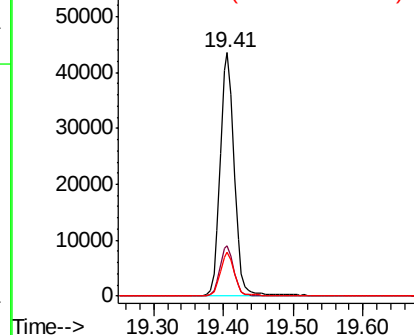
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.3	24.5
203	17.5	14.0	21.0

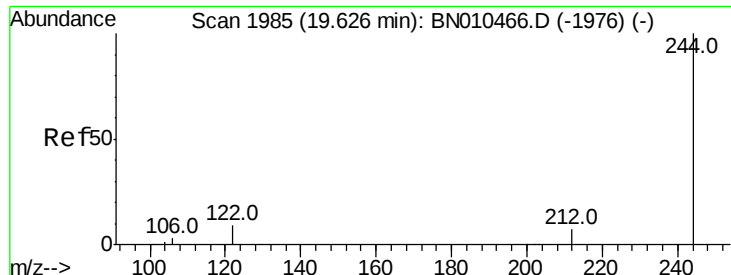
Abundance

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: 0.084 ng

RT: 19.62 min Scan# 1986

Delta R.T. -0.00 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

Instrument :

BNA_N

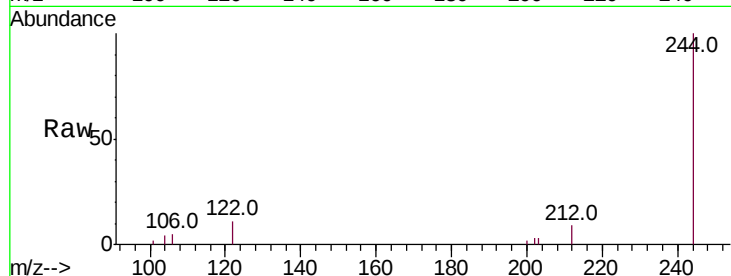
ClientSampleId :

RR-PAH-WPDL

Tot Ion:	244	Resp:	5940
Ion Ratio	Lower	Upper	
244	100		
212	8.7	6.2	9.4
122	11.1	7.8	11.8

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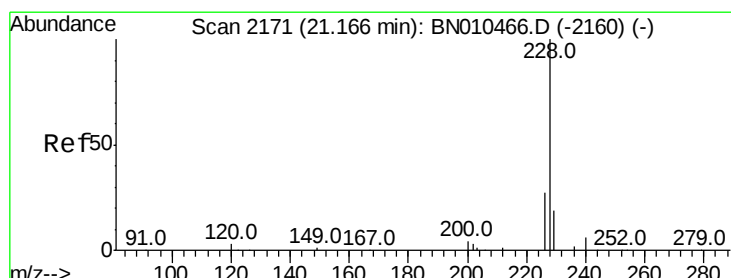
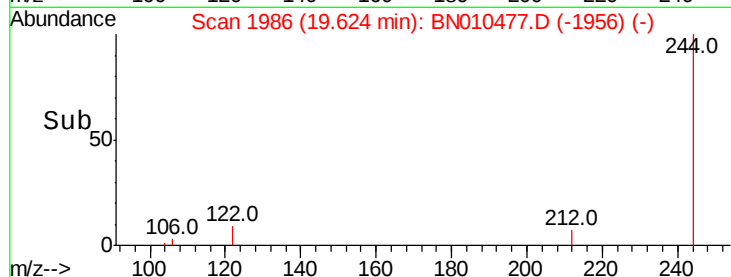
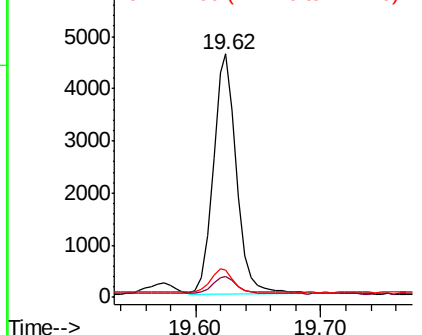


Abundance

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: 0.289 ng

RT: 21.16 min Scan# 2172

Delta R.T. -0.00 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

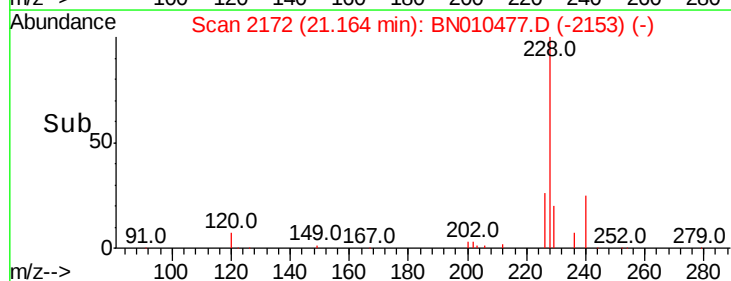
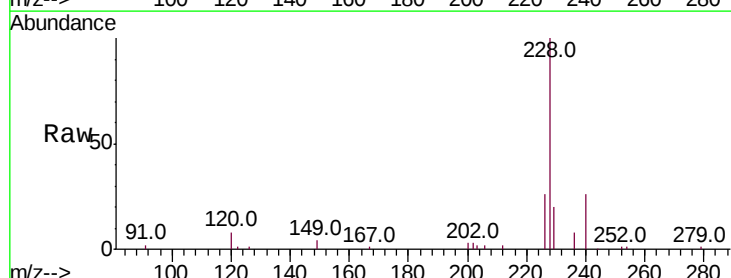
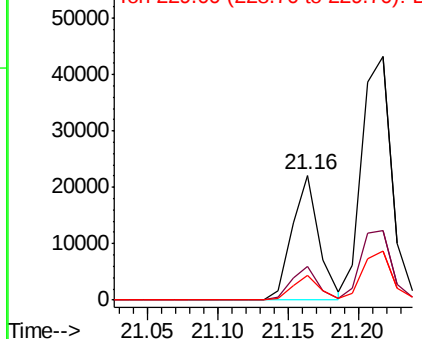
Tgt Ion:	228	Resp:	29158
Ion Ratio	Lower	Upper	
228	100		
226	26.4	21.7	32.5
229	20.0	15.6	23.4

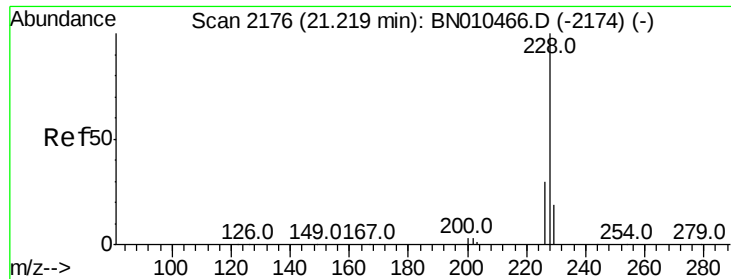
Abundance

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





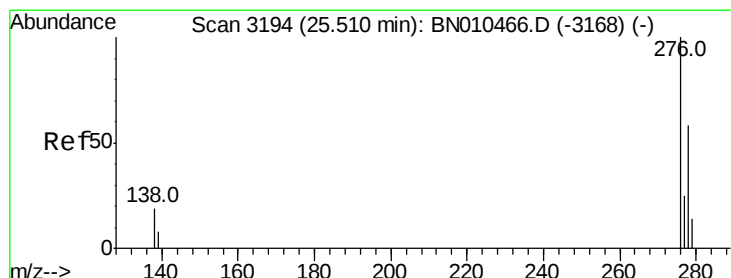
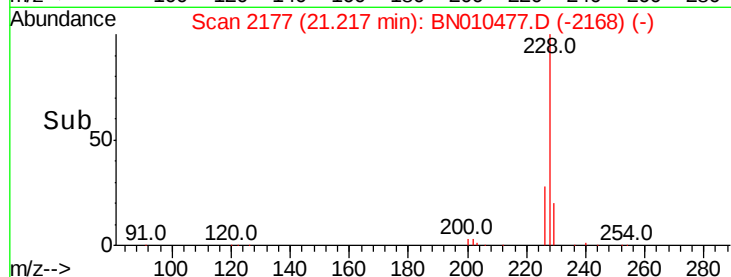
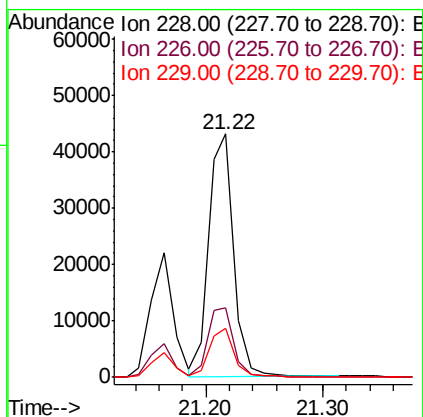
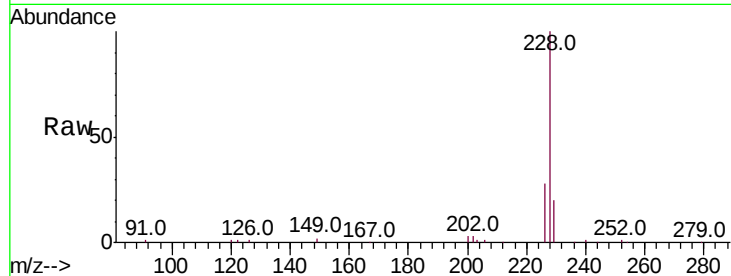
#31
Chrysene
Concen: 0.636 ng
RT: 21.22 min Scan# 2177
Delta R.T. -0.00 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.3	24.0	36.0
229	20.2	15.8	23.6

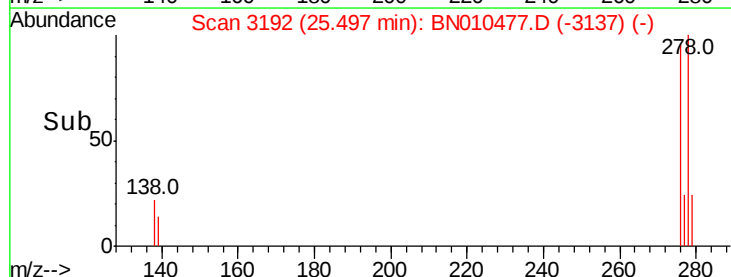
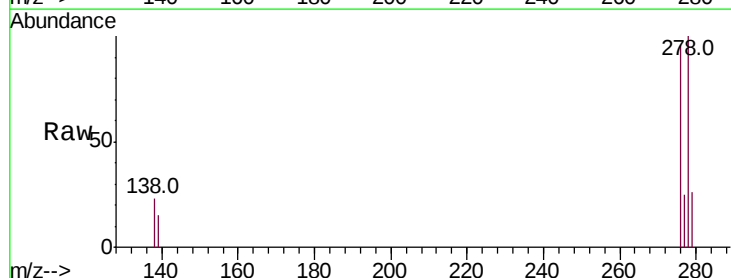
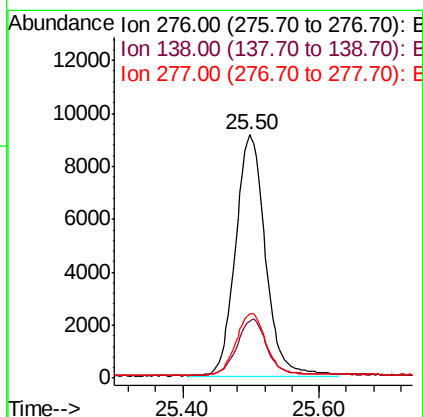
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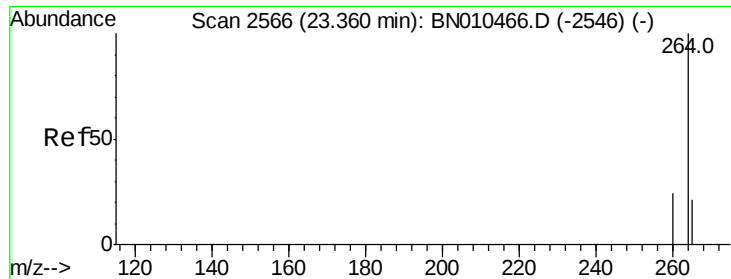
mohammad
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#33
Indeno(1,2,3-cd)pyrene
Concen: 0.312 ng
RT: 25.50 min Scan# 3192
Delta R.T. -0.01 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.5	16.4	24.6
277	25.6	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: BN010477.D

Acq: 14 Apr 2020 14:18

Instrument :

BNA_N

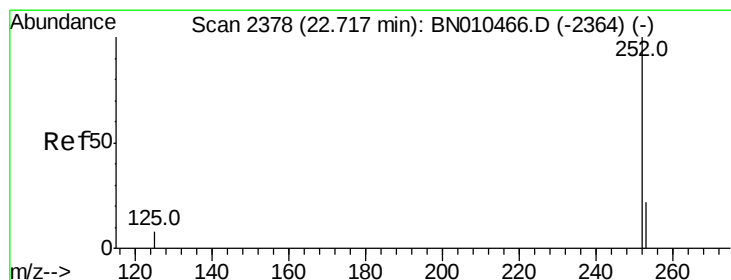
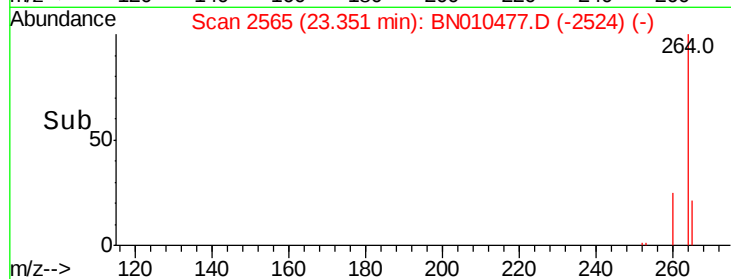
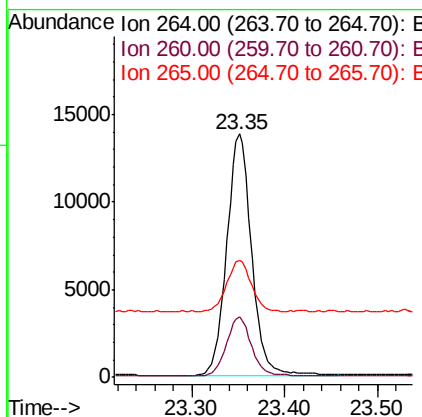
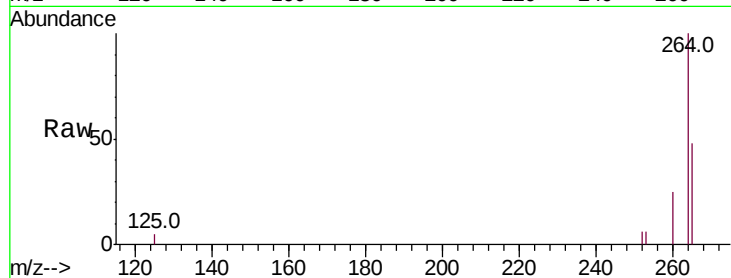
ClientSampleId :

RR-PAH-WPDL

Tot Ion:	264	Resp:	25815
Ion Ratio	Lower	Upper	
264	100		
260	25.1	19.8	29.8
265	47.8	42.3	63.5

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#35

Benzo(b)fluoranthene

Concen: 0.167 ng m

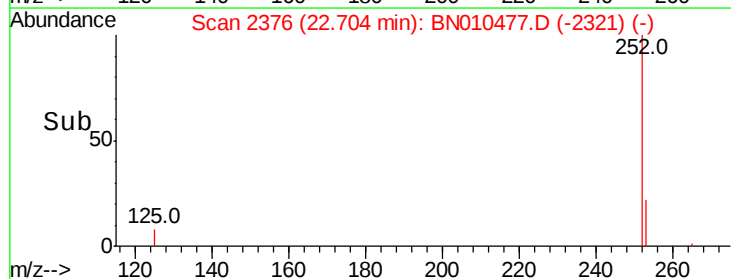
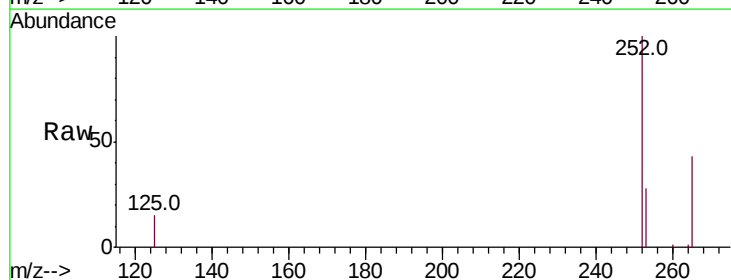
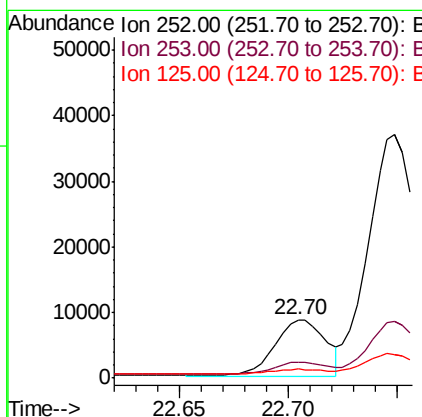
RT: 22.70 min Scan# 2376

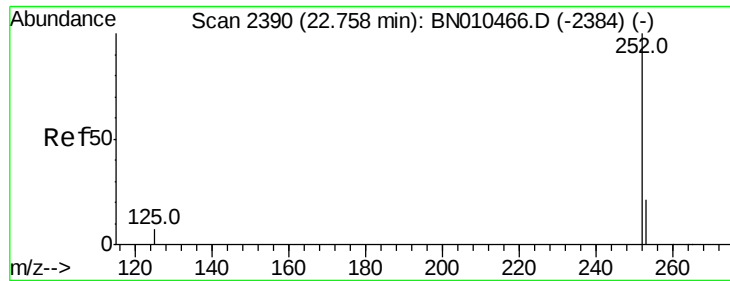
Delta R.T. -0.01 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

Tgt Ion:	252	Resp:	14178
Ion Ratio	Lower	Upper	
252	100		
253	28.0	20.2	30.4
125	15.4	9.2	13.8#





#36

Benzo(k)fluoranthene

Concen: 0.695 ng

RT: 22.75 min Scan# 2389

Delta R.T. -0.01 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

Instrument :

BNA_N

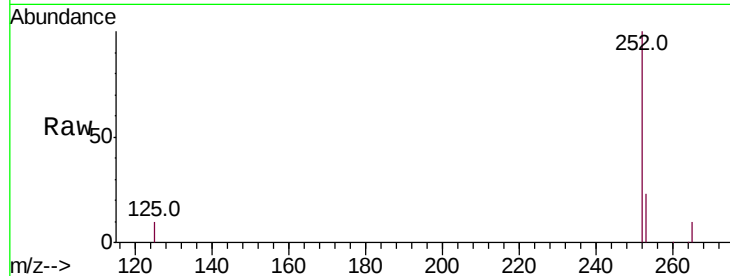
ClientSampleId :

RR-PAH-WPDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	20.1	30.1
125	9.8	9.6	14.4

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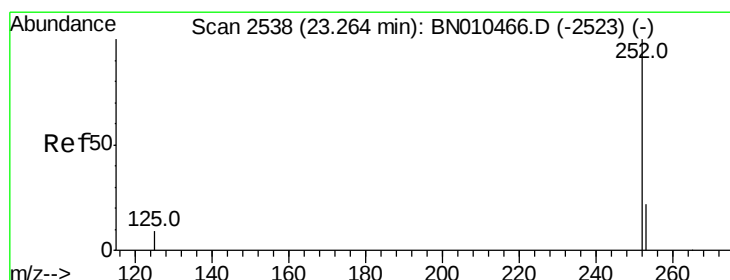
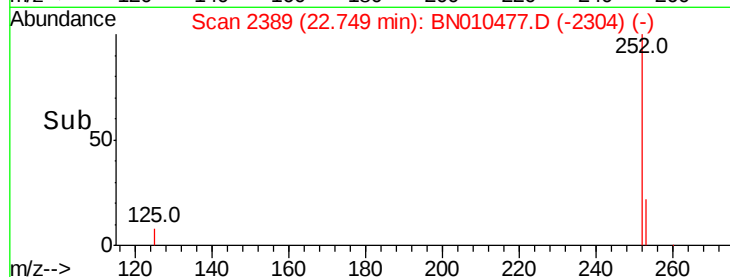
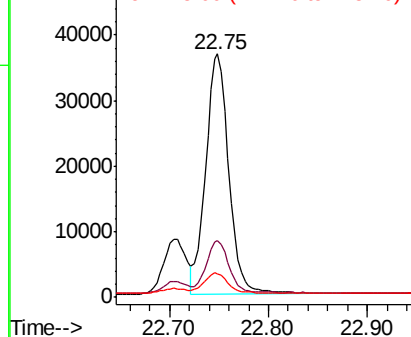


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#37

Benzo(a)pyrene

Concen: 0.728 ng

RT: 23.26 min Scan# 2537

Delta R.T. -0.01 min

Lab File: BN010477.D

Acq: 14 Apr 2020 14:18

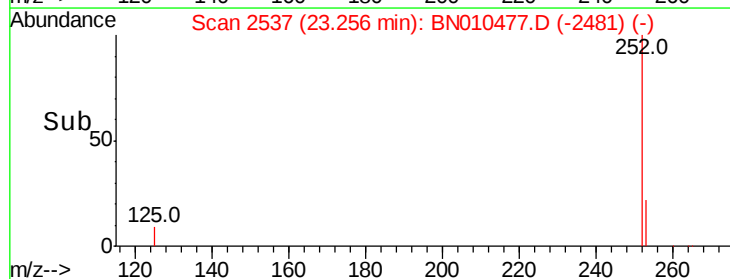
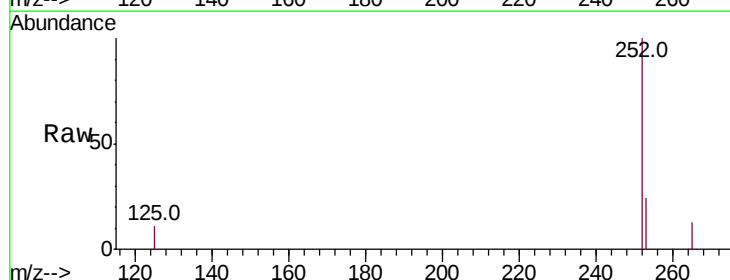
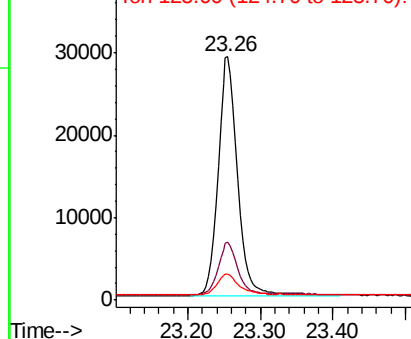
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	21.8	32.8
125	10.8	11.0	16.6#

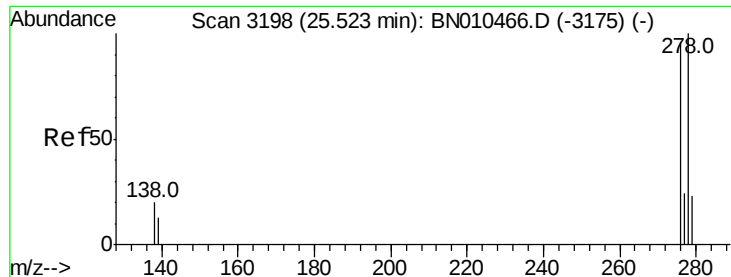
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





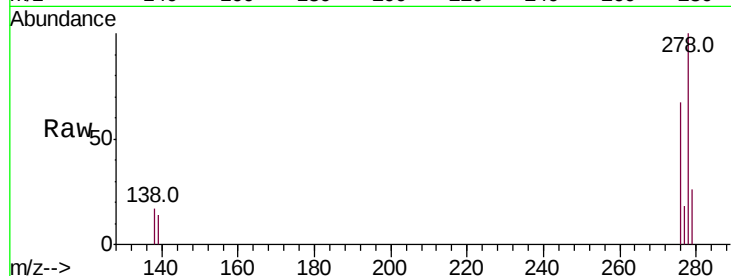
#38
Dibenzo(a,h)anthracene
Concen: 0.494 ng
RT: 25.51 min Scan# 3195
Delta R.T. -0.02 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

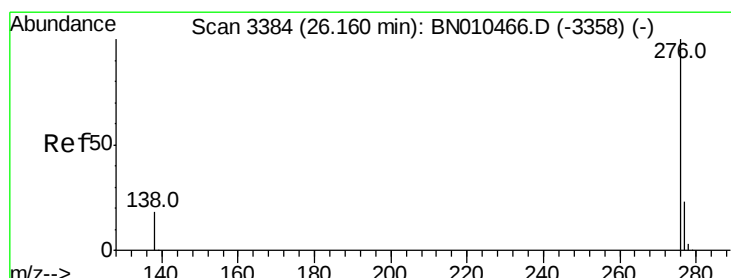
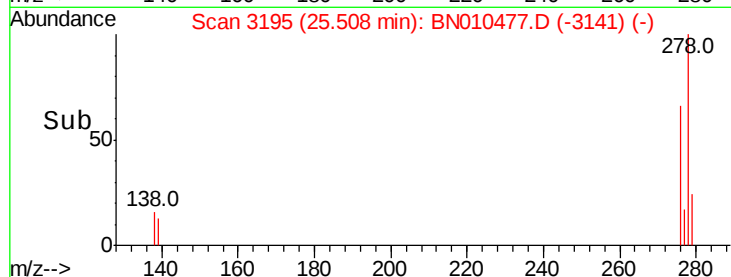
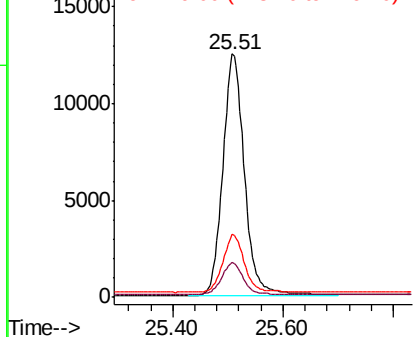
Tot Ion	Ratio	Lower	Upper
278	100		
139	14.2	12.3	18.5
279	25.8	21.9	32.9

Manual Integrations
APPROVED

mohammad
4/15/2020 3:32:20 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#39
Benzo(g,h,i)perylene
Concen: 0.739 ng
RT: 26.15 min Scan# 3382
Delta R.T. -0.01 min
Lab File: BN010477.D
Acq: 14 Apr 2020 14:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	20.2	30.2
138	18.0	15.4	23.2

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

