

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030220\
 Data File : BN010039.D
 Acq On : 02 Mar 2020 14:16
 Operator : CG/JU
 Sample : L1613-02
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TP-14-EP2-3

Manual Integrations
 APPROVED

mohammad
 3/3/2020 12:27:25 PM

Quant Time: Mar 02 15:52:35 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN021920.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 02 15:27:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	875	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	3059	0.40	ng	0.01
13) Acenaphthene-d10	14.01	164	2121	0.40	ng	0.00
19) Phenanthrene-d10	16.77	188	4848	0.40	ng	0.00
27) Chrysene-d12	20.99	240	5182	0.40	ng	-0.01
34) Perylene-d12	23.09	264	5526	0.40	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.06	112	694	0.36	ng	0.00
5) Phenol-d6	6.63	99	863	0.36	ng	0.00
8) Nitrobenzene-d5	8.62	82	966m	0.38	ng	0.05
11) 2-Methylnaphthalene-d10	11.75	152	1527	0.26	ng	0.00
14) 2,4,6-Tribromophenol	15.55	330	300	0.37	ng	0.00
15) 2-Fluorobiphenyl	12.64	172	2928	0.37	ng	0.00
25) Fluoranthene-d10	18.82	212	4317	0.26	ng	-0.01
29) Terphenyl-d14	19.43	244	4162	0.34	ng	-0.01

Target Compounds					Qvalue	
9) Naphthalene	10.19	128	5898	0.707	ng	98
12) 2-Methylnaphthalene	11.82	142	2592	0.453	ng	99
16) Acenaphthylene	13.73	152	20371	2.253	ng	100
17) Acenaphthene	14.08	154	1517	0.239	ng	97
18) Fluorene	15.08	166	6893	0.822	ng	96
23) Phenanthrene	16.82	178	60999	4.228	ng	100
24) Anthracene	16.91	178	16324	1.338	ng	100
26) Fluoranthene	18.84	202	81929	4.742	ng	99
28) Pyrene	19.21	202	85394	4.340	ng	98
30) Benzo(a)anthracene	20.97	228	53765	3.126	ng	97
31) Chrysene	21.03	228	52137m	2.621	ng	
32) Bis(2-ethylhexyl)phthalate	20.93	149	1362	0.162	ng	99
33) Indeno(1,2,3-cd)pyrene	25.12	276	45269	2.185	ng	98
35) Benzo(b)fluoranthene	22.48	252	82250	4.071	ng	# 82
36) Benzo(k)fluoranthene	22.51	252	30153m	1.371	ng	
37) Benzo(a)pyrene	23.00	252	71498m	3.879	ng	
38) Dibenzo(a,h)anthracene	25.12	278	12887	0.710	ng	98
39) Benzo(a,h,i)perylene	25.73	276	48303	2.498	ng	95

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

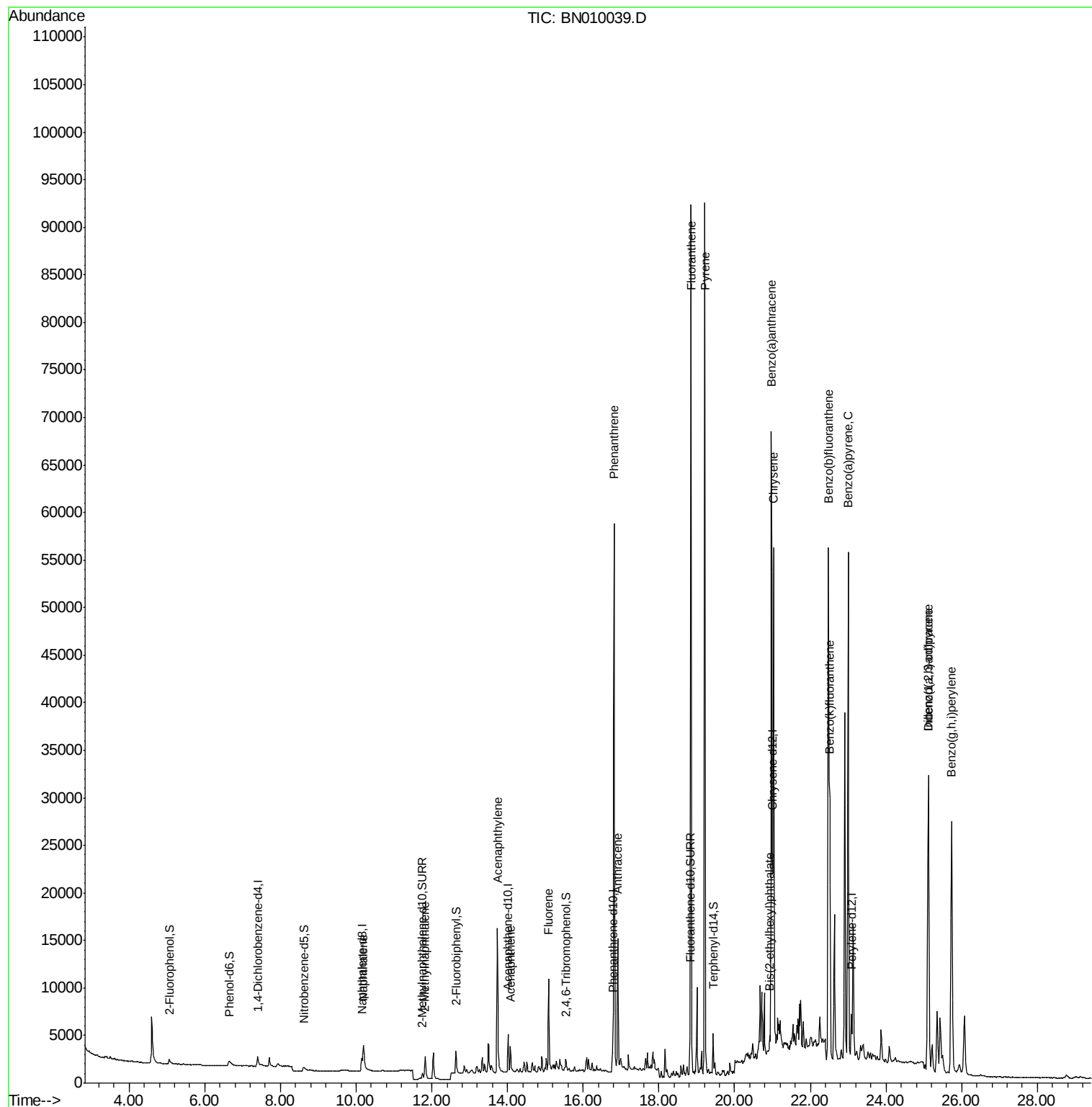
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN030220\
Data File : BN010039.D
Acq On : 02 Mar 2020 14:16
Operator : CG/JU
Sample : L1613-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

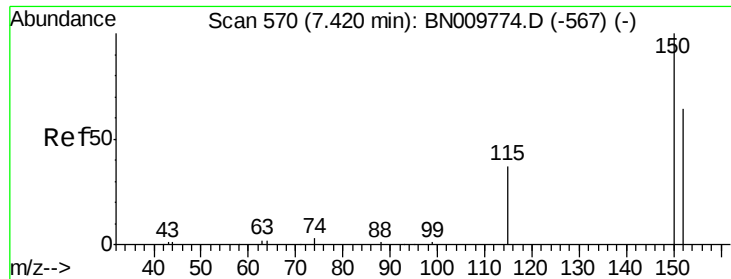
Instrument :
BNA_N
ClientSampleId :
TP-14-EP2-3

Manual Integrations
APPROVED

mohammad
3/3/2020 12:27:25 PM

Quant Time: Mar 02 15:52:35 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN021920.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 02 15:27:13 2020
Response via : Initial Calibration





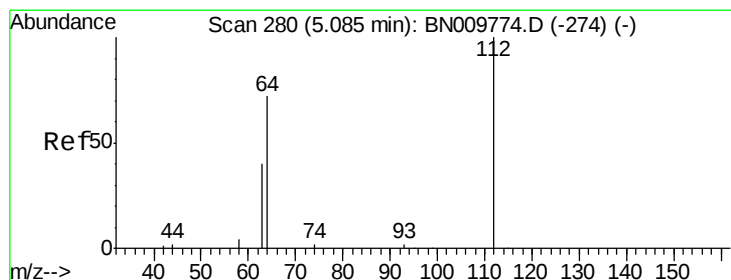
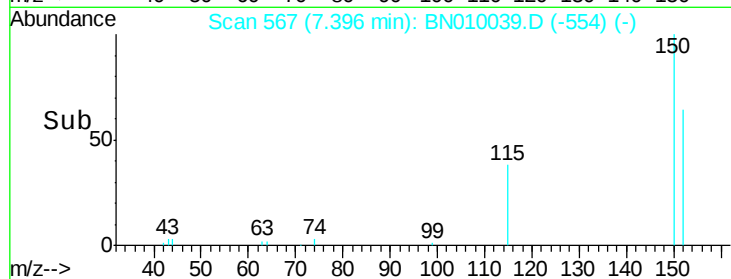
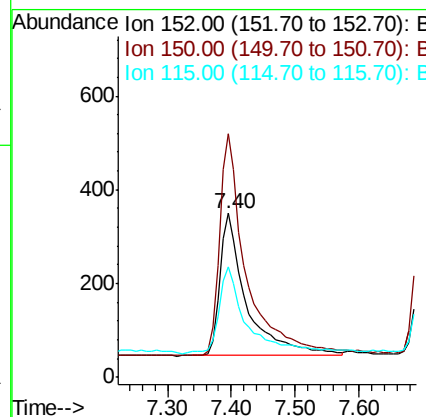
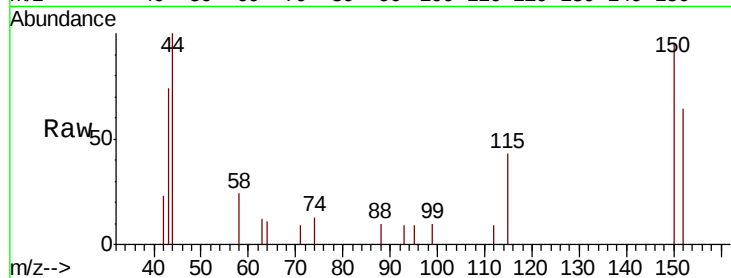
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.40 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: BN010039.D
 Acq: 02 Mar 2020 14:16

Instrument :
 BNA_N
 ClientSampleId :
 TP-14-EP2-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	148.3	118.6	177.8
115	67.4	51.8	77.6

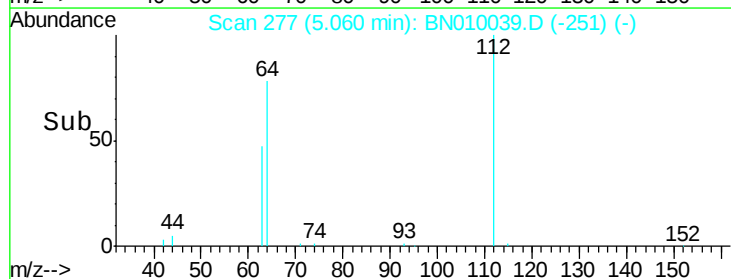
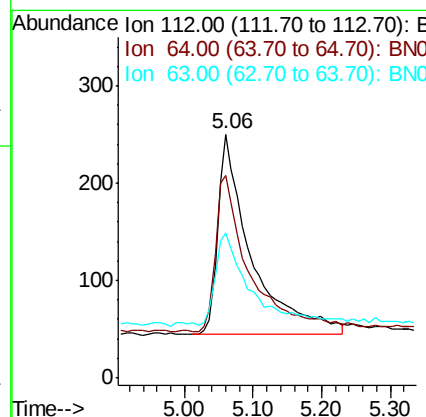
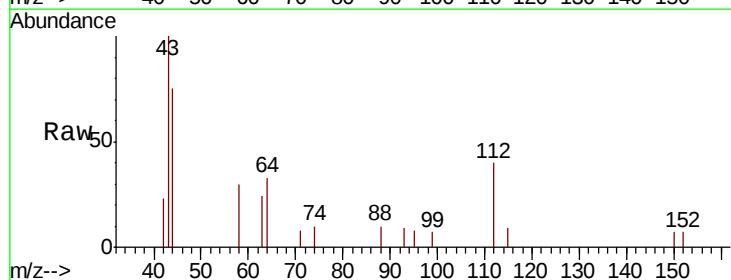
Manual Integrations
 APPROVED

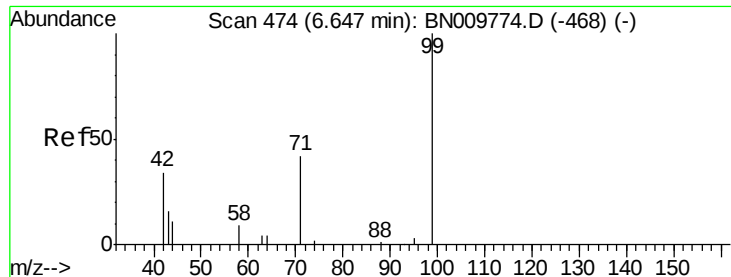
mohammad
 3/3/2020 12:27:25 PM



#4
 2-Fluorophenol
 Concen: 0.357 ng
 RT: 5.06 min Scan# 277
 Delta R.T. 0.01 min
 Lab File: BN010039.D
 Acq: 02 Mar 2020 14:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	80.8	62.5	93.7
63	47.6	35.4	53.0





#5

Phenol-d6

Concen: 0.365 ng

RT: 6.63 min Scan# 472

Delta R.T. -0.00 min

Lab File: BN010039.D

Acq: 02 Mar 2020 14:16

Instrument :

BNA_N

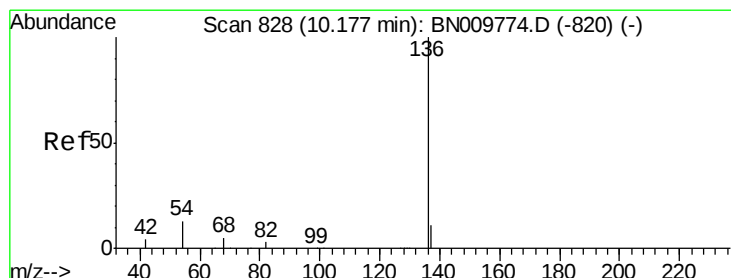
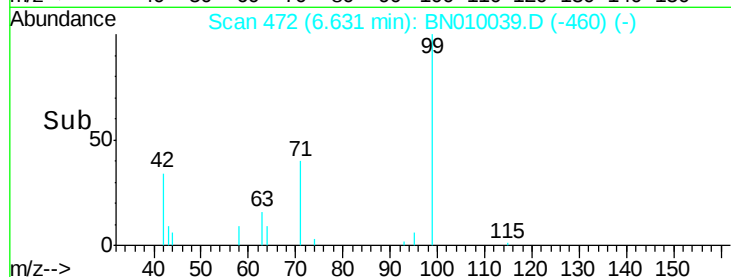
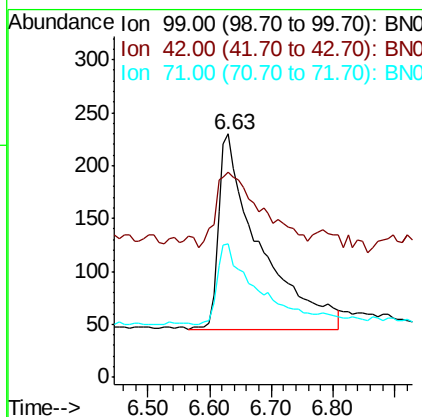
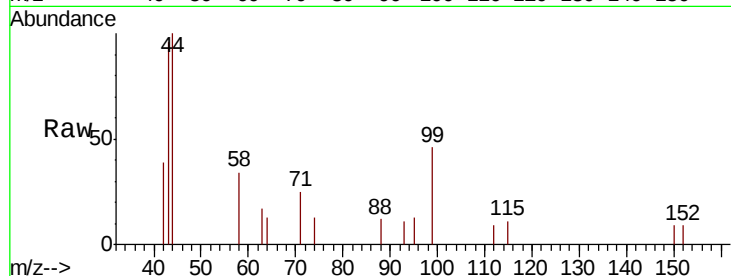
ClientSampleId :

TP-14-EP2-3

Tot Ion:	99	Resp:	863
Ion	Ratio	Lower	Upper
99	100		
42	43.6	25.9	38.9#
71	39.3	35.0	52.6

Manual Integrations
APPROVED

mohammad
3/3/2020 12:27:25 PM



#7

Naphthalene-d8

Concen: 0.400 ng

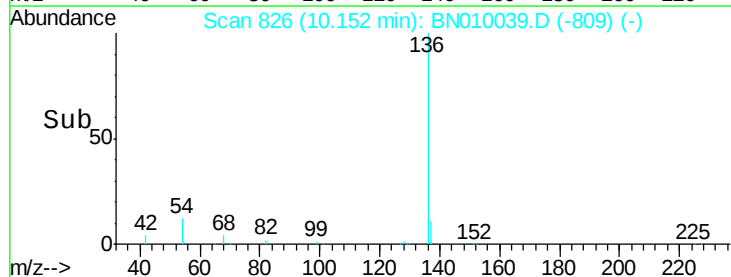
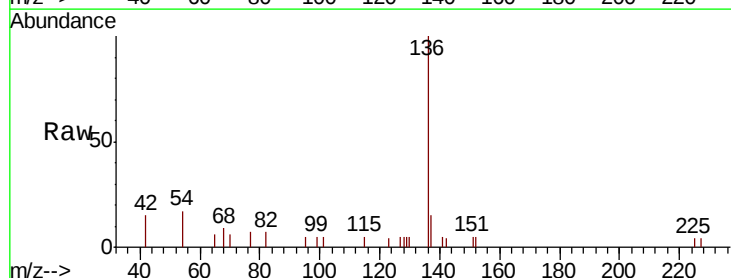
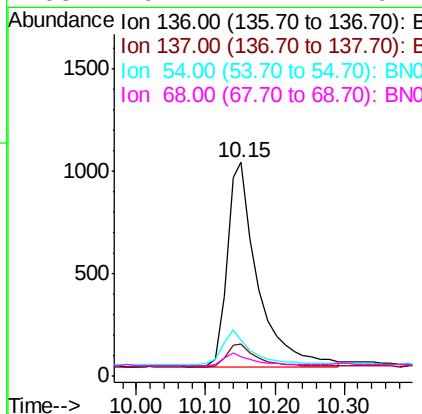
RT: 10.15 min Scan# 826

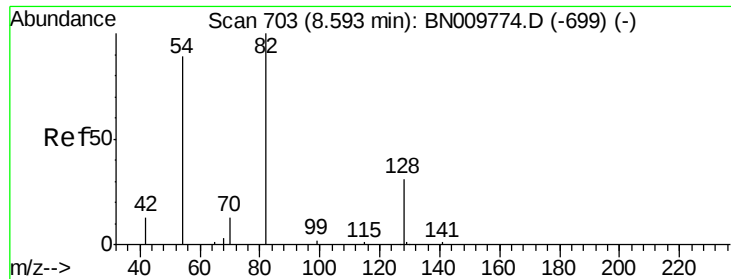
Delta R.T. 0.01 min

Lab File: BN010039.D

Acq: 02 Mar 2020 14:16

Tgt Ion:	136	Resp:	3059
Ion	Ratio	Lower	Upper
136	100		
137	15.2	11.3	16.9
54	16.8	13.9	20.9
68	9.1	7.1	10.7





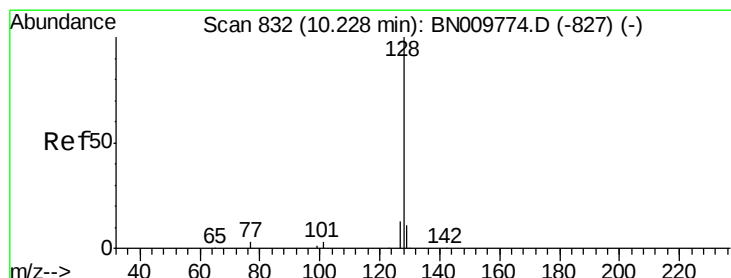
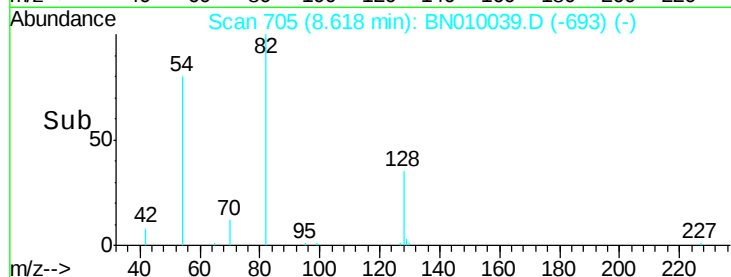
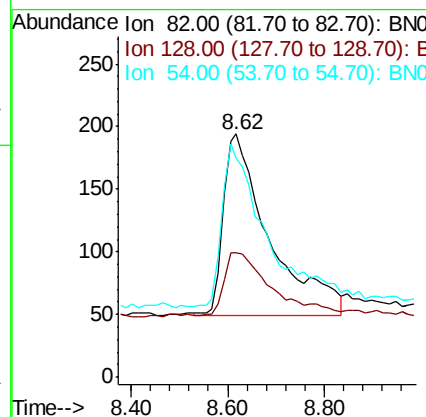
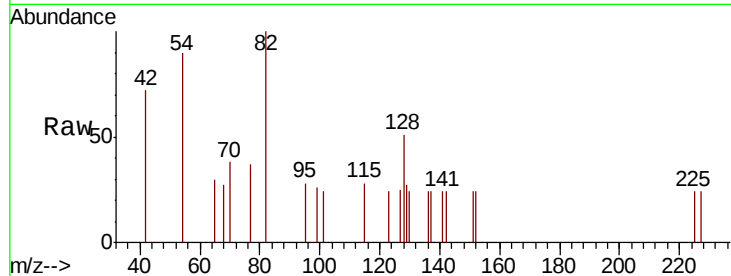
#8
Nitrobenzene-d5
Concen: 0.379 ng/ml
RT: 8.62 min Scan# 705
Delta R.T. 0.05 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Instrument :
BNA_N
ClientSampleId :
TP-14-EP2-3

Tot Ion	Ratio	Lower	Upper
82	100		
128	51.0	37.5	56.3
54	90.2	72.4	108.6

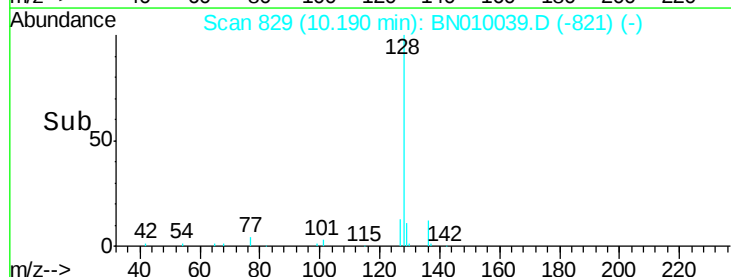
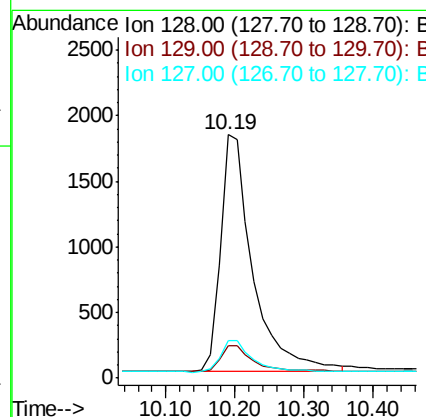
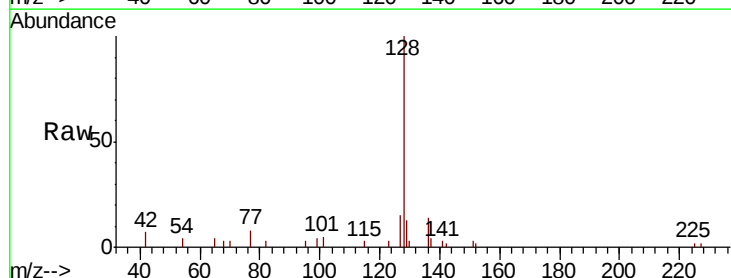
Manual Integrations
APPROVED

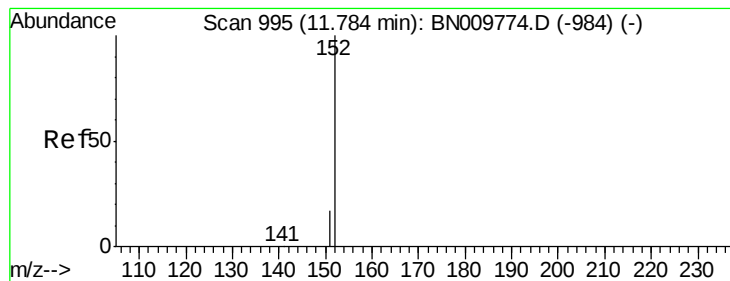
mohammad
3/3/2020 12:27:25 PM



#9
Naphthalene
Concen: 0.707 ng/ml
RT: 10.19 min Scan# 829
Delta R.T. -0.00 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.4	11.6	17.4
127	15.2	12.6	19.0





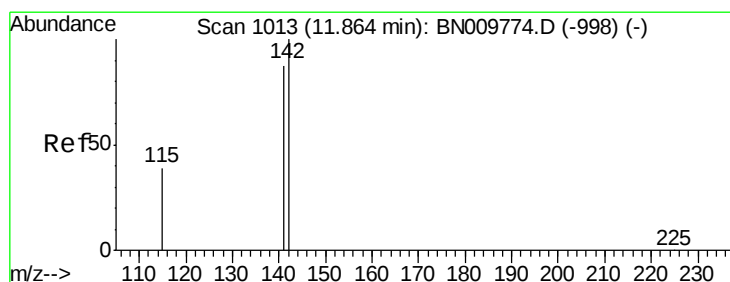
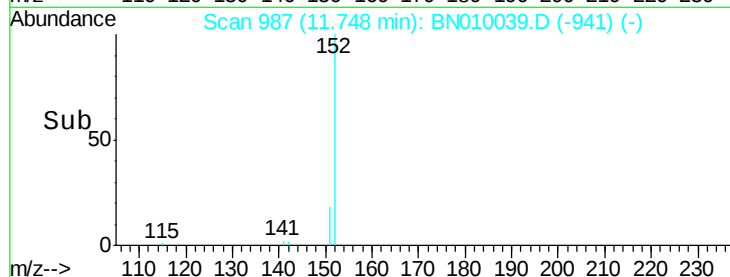
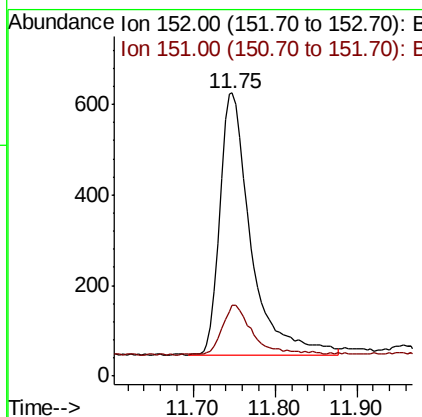
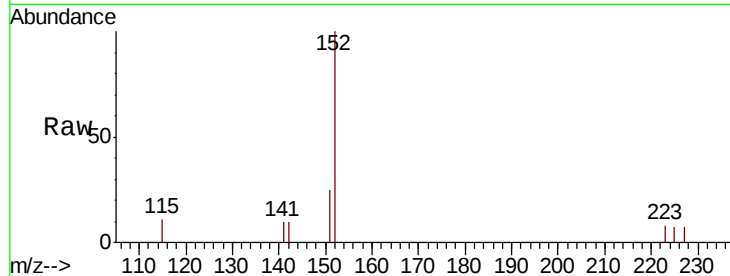
#11
2-Methylnaphthalene-d10
Concen: 0.258 ng
RT: 11.75 min Scan# 987
Delta R.T. 0.00 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Instrument :
BNA_N
ClientSampleId :
TP-14-EP2-3

Tot Ion	Ratio	Lower	Upper
152	100		
151	18.3	14.6	22.0

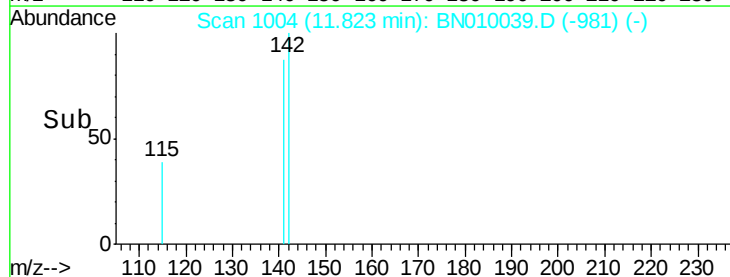
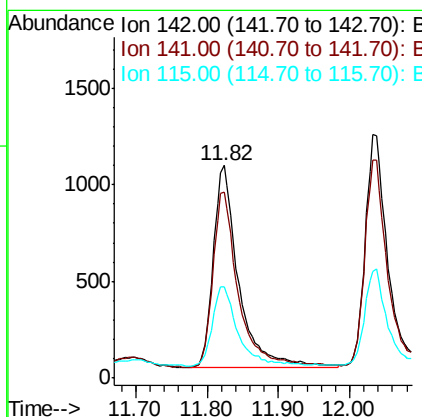
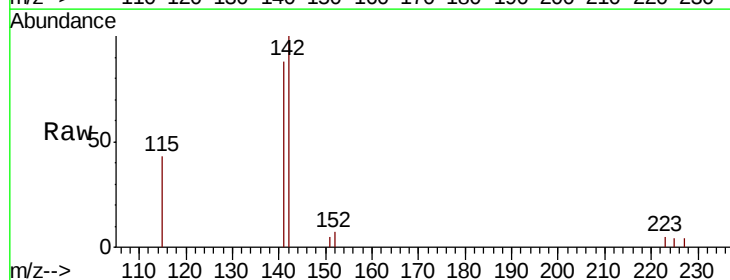
Manual Integrations
APPROVED

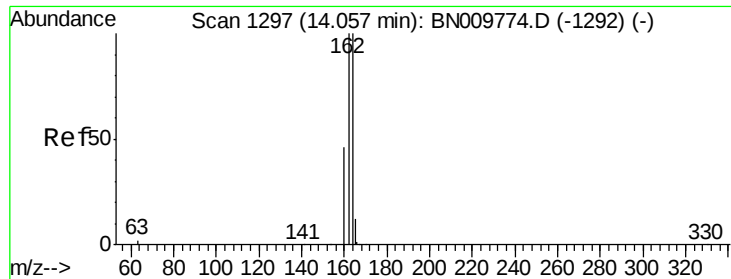
mohammad
3/3/2020 12:27:25 PM



#12
2-Methylnaphthalene
Concen: 0.453 ng
RT: 11.82 min Scan# 1004
Delta R.T. 0.00 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.8	71.5	107.3
115	43.2	34.8	52.2





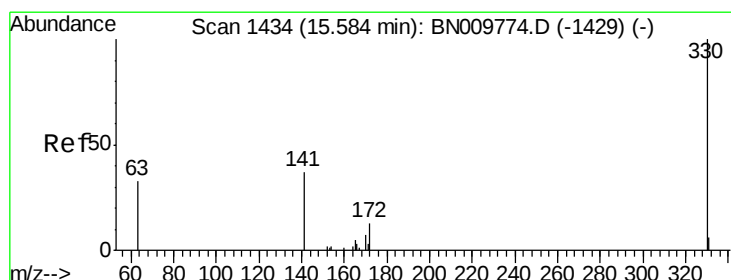
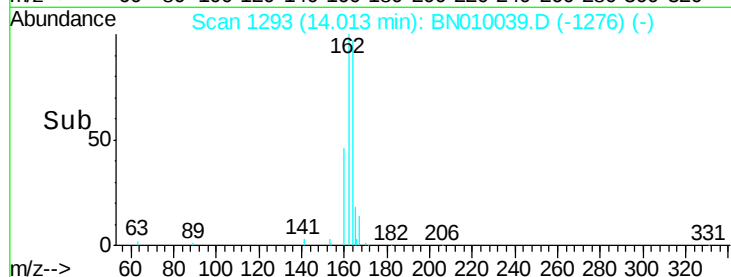
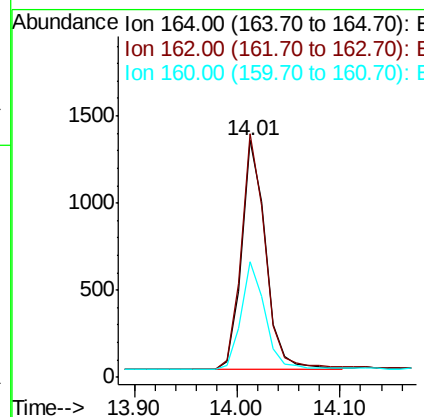
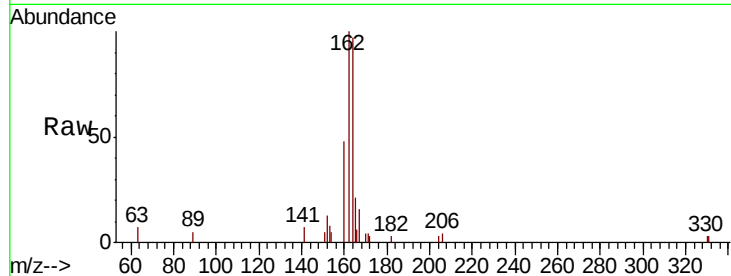
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.01 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Instrument :
BNA_N
ClientSampleId :
TP-14-EP2-3

Tot Ion:	164	Resp:	2121
Ion Ratio	Lower	Upper	
164	100		
162	102.8	81.9	122.9
160	48.9	37.6	56.4

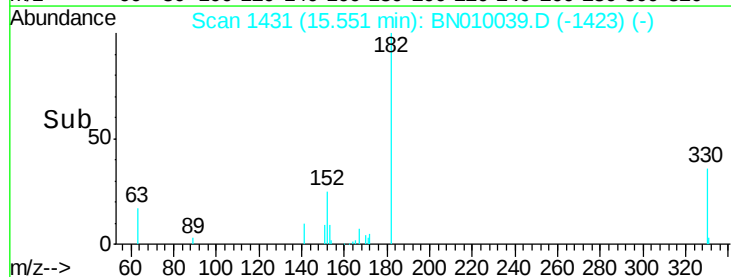
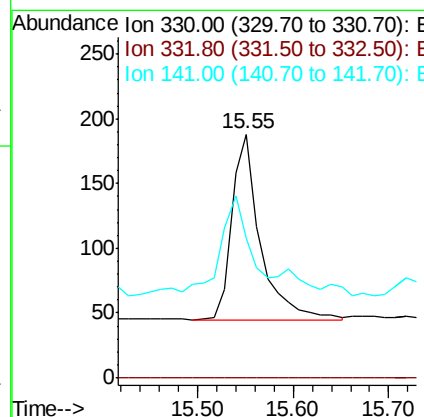
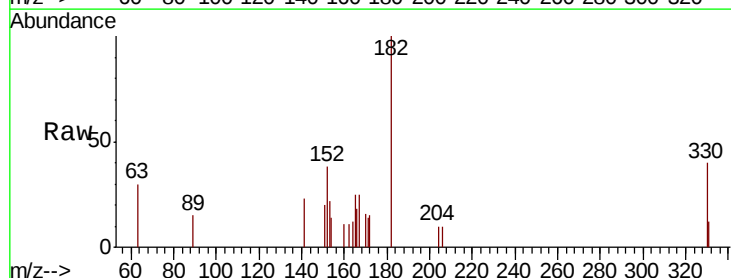
Manual Integrations
APPROVED

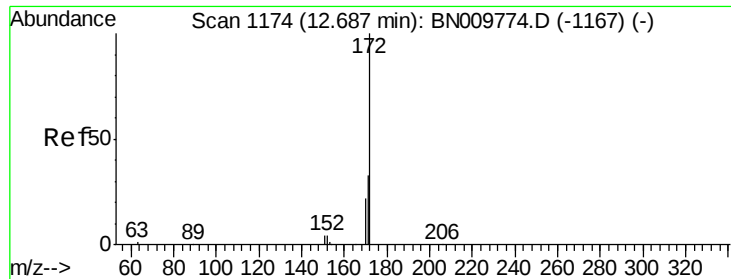
mohammad
3/3/2020 12:27:25 PM



#14
2,4,6-Tribromophenol
Concen: 0.367 ng
RT: 15.55 min Scan# 1431
Delta R.T. -0.01 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Tgt Ion:	330	Resp:	300
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	51.7	38.2	57.2





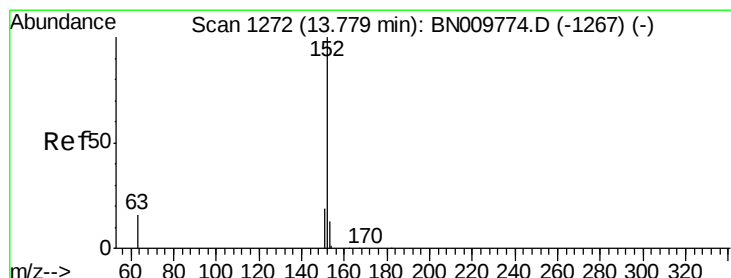
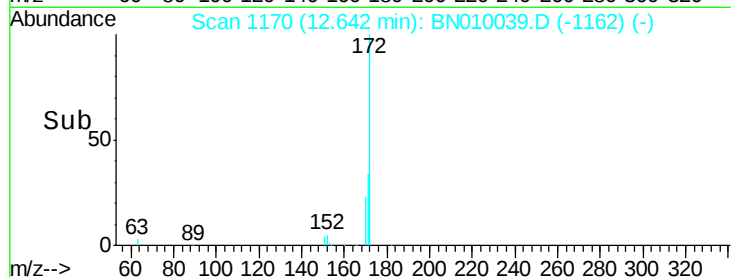
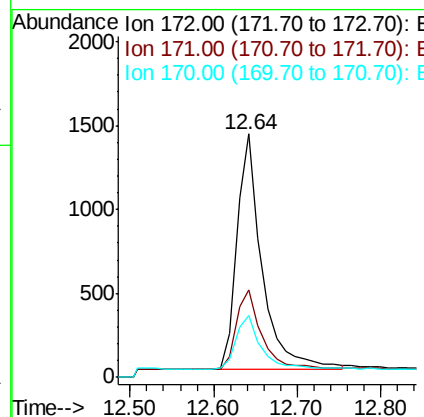
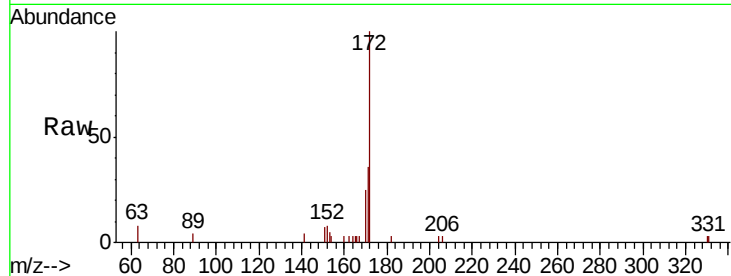
#15
2-Fluorobiphenyl
Concen: 0.366 ng
RT: 12.64 min Scan# 1170
Delta R.T. -0.01 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Instrument :
BNA_N
ClientSampleId :
TP-14-EP2-3

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	25.4	19.4	29.0

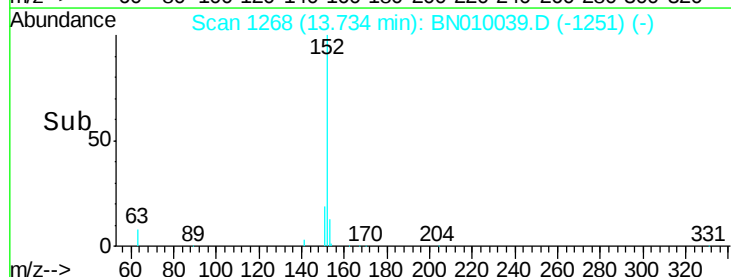
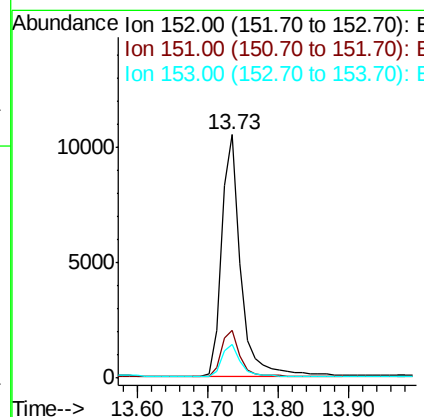
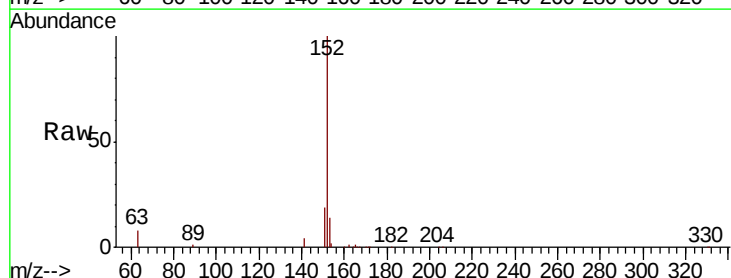
Manual Integrations
APPROVED

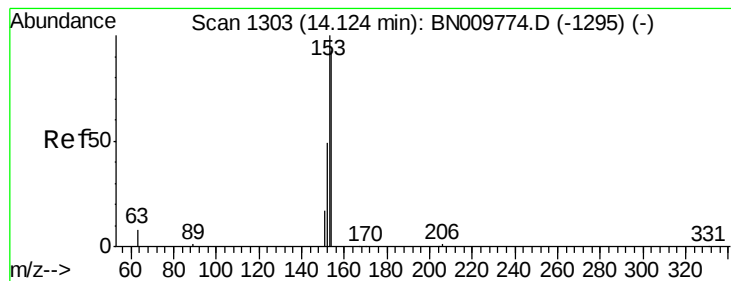
mohammad
3/3/2020 12:27:25 PM



#16
Acenaphthylene
Concen: 2.253 ng
RT: 13.73 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.6	23.4
153	13.4	10.8	16.2





#17

Acenaphthene

Concen: 0.239 ng

RT: 14.08 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BN010039.D

Acq: 02 Mar 2020 14:16

Instrument :

BNA_N

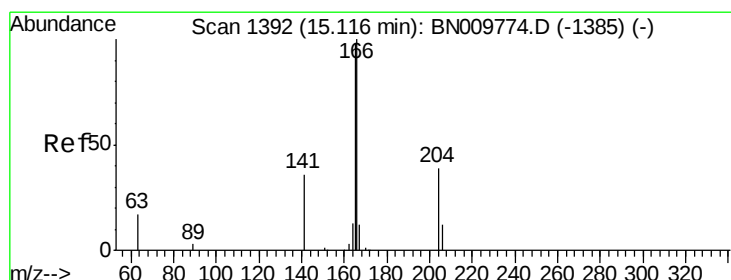
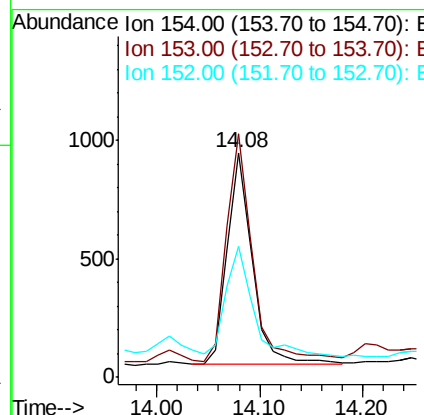
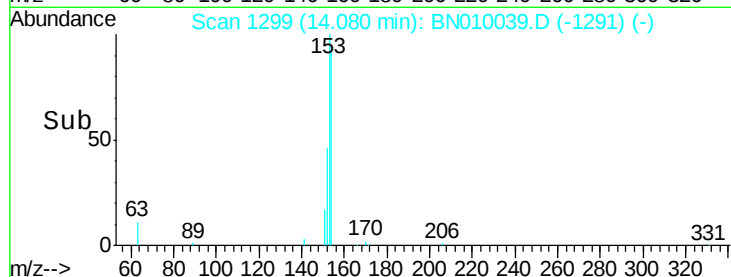
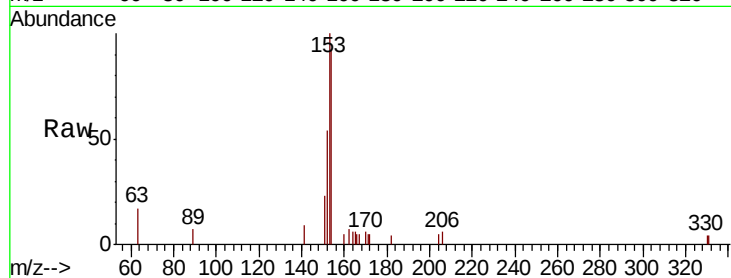
ClientSampled :

TP-14-EP2-3

Tot Ion:	154	Resp:	1517
Ion Ratio	Lower	Upper	
154	100		
153	111.5	91.4	137.2
152	57.4	44.2	66.4

Manual Integrations
APPROVED

mohammad
3/3/2020 12:27:25 PM



#18

Fluorene

Concen: 0.822 ng

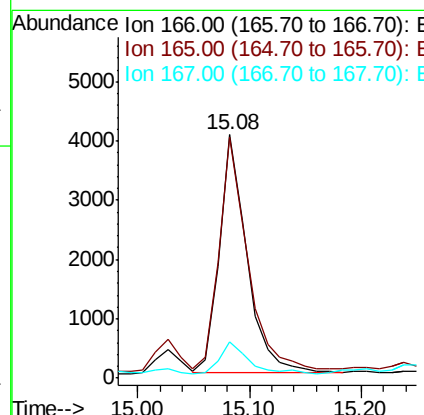
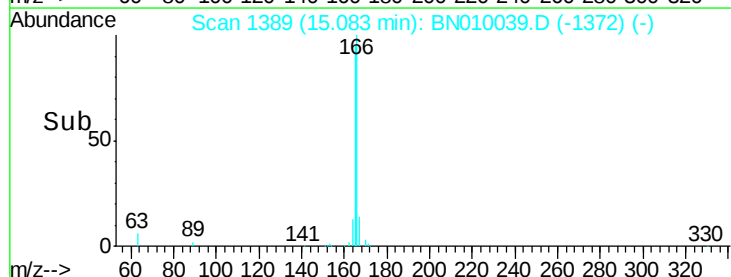
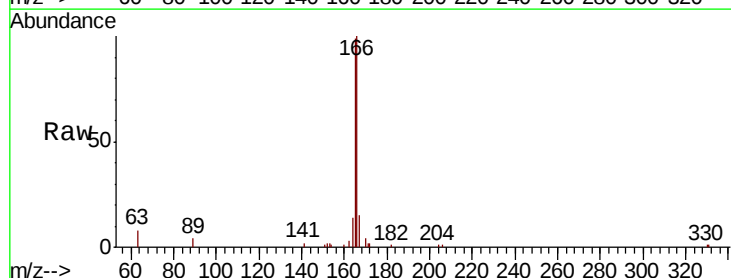
RT: 15.08 min Scan# 1389

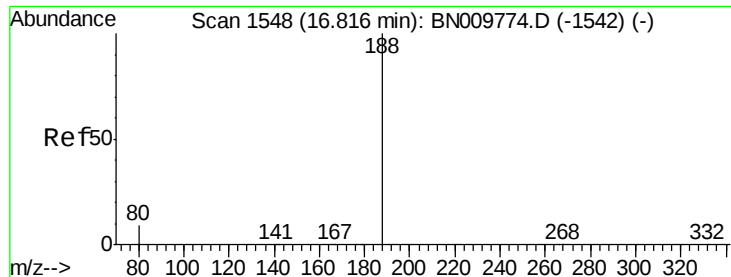
Delta R.T. -0.01 min

Lab File: BN010039.D

Acq: 02 Mar 2020 14:16

Tgt Ion:	166	Resp:	6893
Ion Ratio	Lower	Upper	
166	100		
165	100.8	77.1	115.7
167	14.2	11.3	16.9





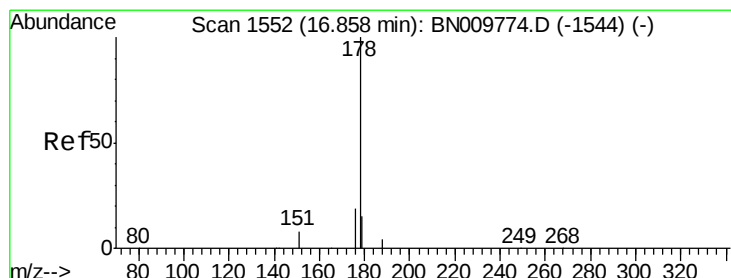
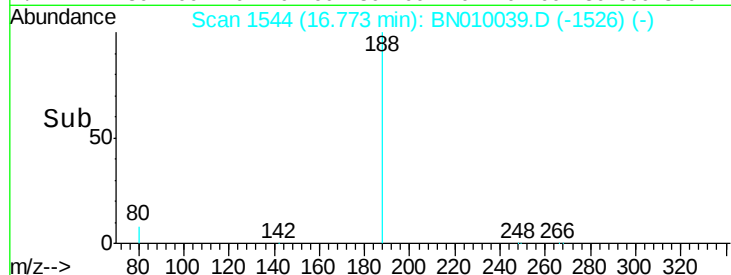
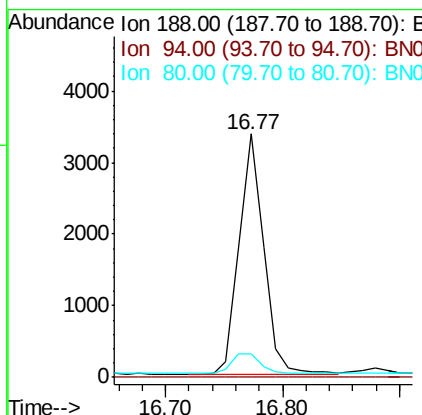
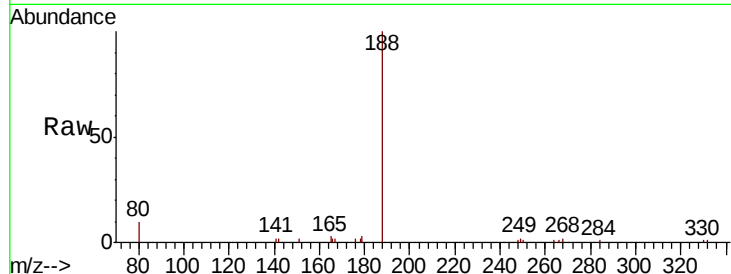
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.77 min Scan# 1544
Delta R.T. -0.01 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Instrument :
BNA_N
ClientSampleId :
TP-14-EP2-3

Tot Ion:188	Resp:	4848
Ion Ratio	Lower	Upper
188 100		
94 0.0	0.0	0.0
80 9.6	9.4	14.2

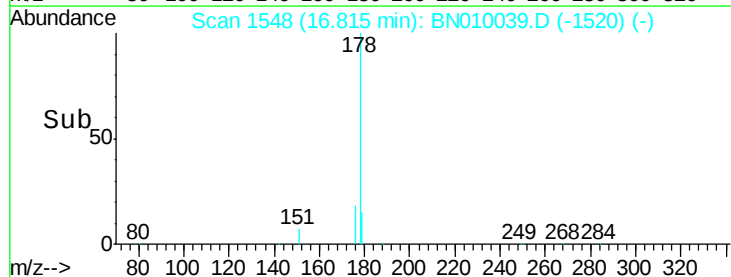
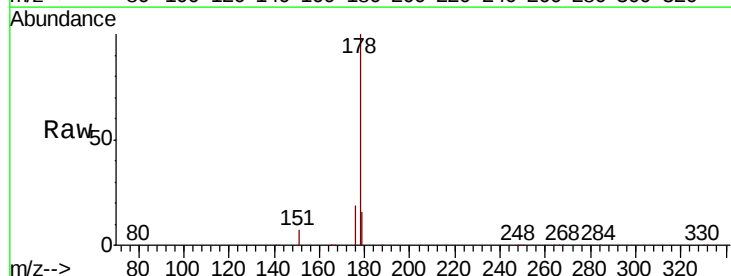
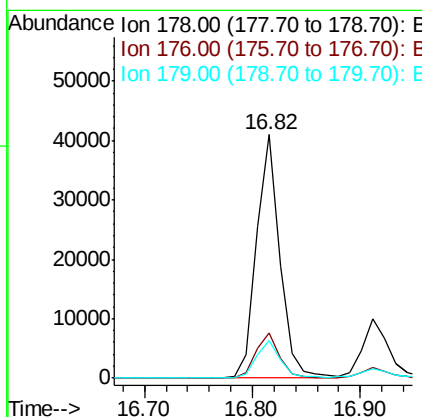
Manual Integrations
APPROVED

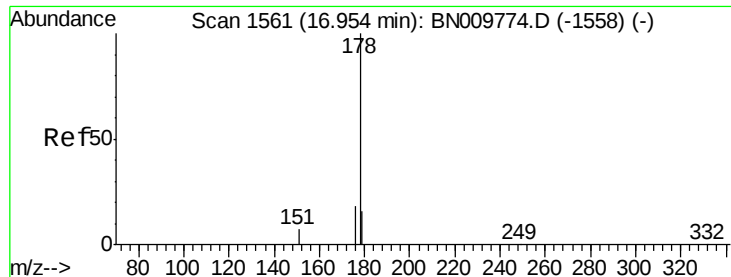
mohammad
3/3/2020 12:27:25 PM



#23
Phenanthrene
Concen: 4.228 ng
RT: 16.82 min Scan# 1548
Delta R.T. -0.01 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Tgt Ion:178	Resp:	60999
Ion Ratio	Lower	Upper
178 100		
176 18.7	15.0	22.4
179 15.5	12.2	18.4





#24

Anthracene

Concen: 1.338 ng

RT: 16.91 min Scan# 1557

Delta R.T. -0.02 min

Lab File: BN010039.D

Acq: 02 Mar 2020 14:16

Instrument :

BNA_N

ClientSampleId :

TP-14-EP2-3

Tot Ion:178 Resp: 16324

Ion Ratio Lower Upper

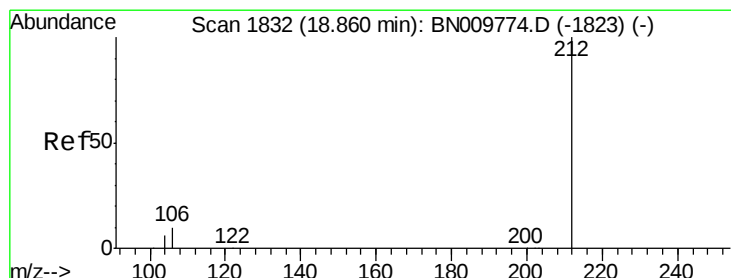
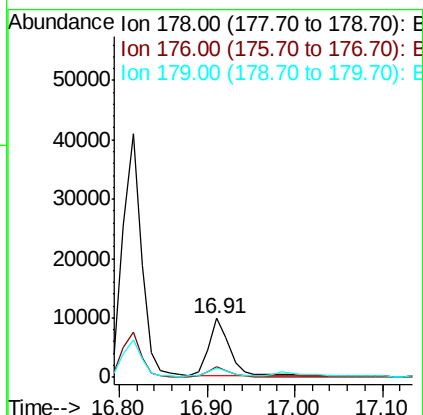
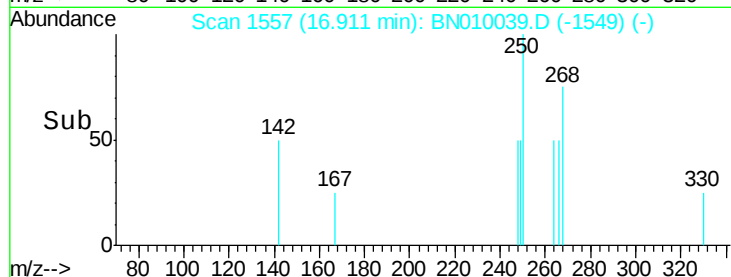
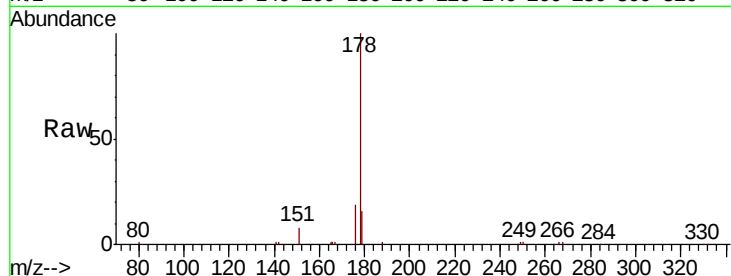
178 100

176 17.9 14.2 21.2

179 14.9 11.8 17.8

Manual Integrations
APPROVED

mohammad
3/3/2020 12:27:25 PM



#25

Fluoranthene-d10

Concen: 0.257 ng

RT: 18.82 min Scan# 1823

Delta R.T. -0.01 min

Lab File: BN010039.D

Acq: 02 Mar 2020 14:16

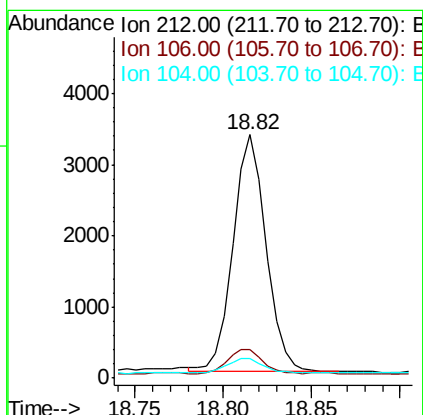
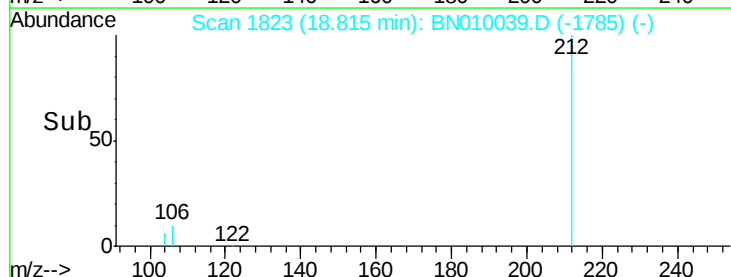
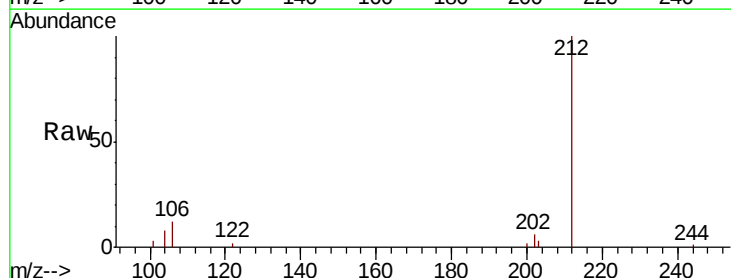
Tgt Ion:212 Resp: 4317

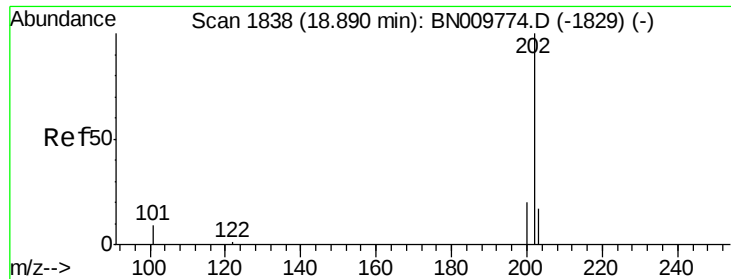
Ion Ratio Lower Upper

212 100

106 10.8 8.2 12.4

104 7.6 5.0 7.6#





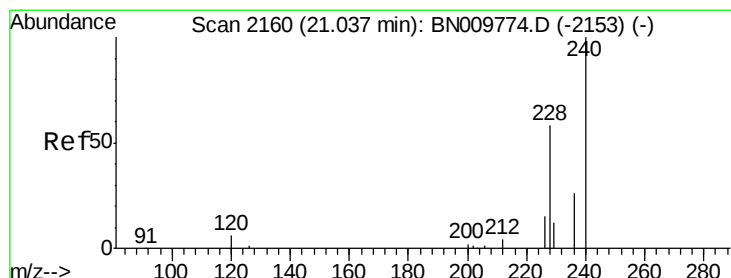
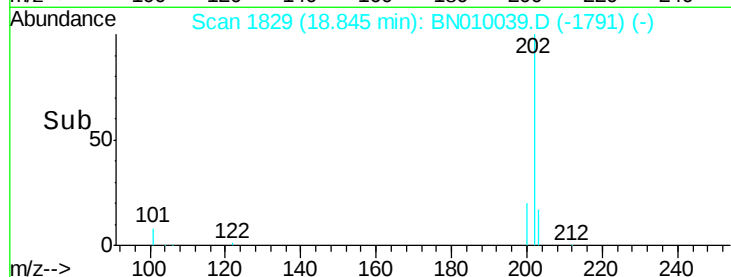
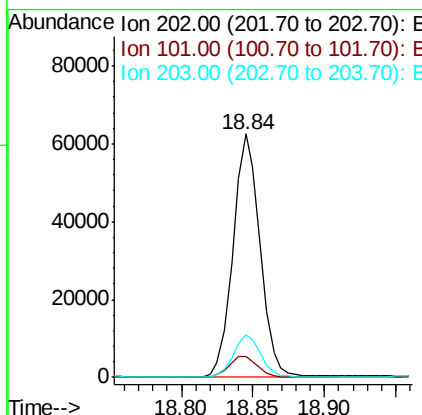
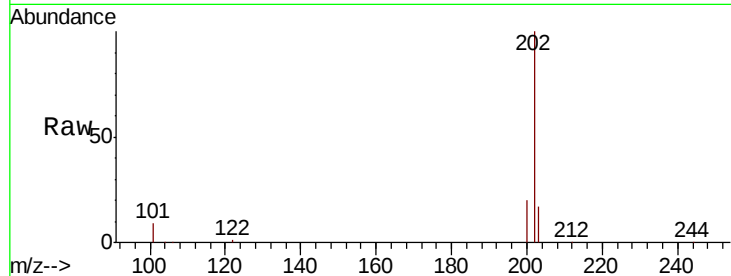
#26
 Fluoranthene
 Concen: 4.742 ng
 RT: 18.84 min Scan# 1829
 Delta R.T. -0.01 min
 Lab File: BN010039.D
 Acq: 02 Mar 2020 14:16

Instrument :
 BNA_N
 ClientSampleId :
 TP-14-EP2-3

Tot Ion	Ratio	Resp	Lower	Upper
202	100	81929		
101	8.9		7.0	10.6
203	17.4		13.4	20.2

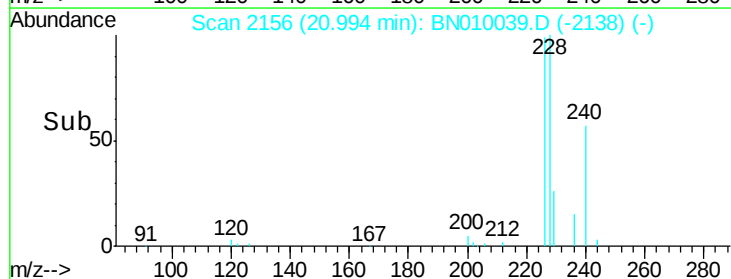
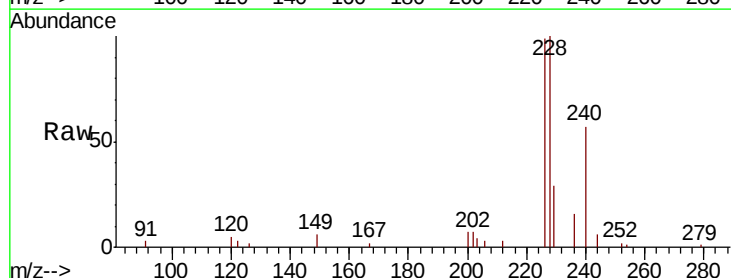
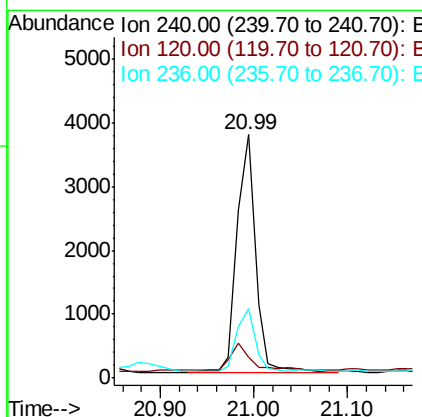
Manual Integrations
 APPROVED

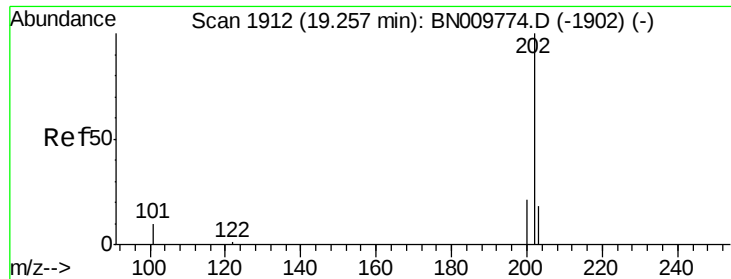
mohammad
 3/3/2020 12:27:25 PM



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.99 min Scan# 2156
 Delta R.T. -0.01 min
 Lab File: BN010039.D
 Acq: 02 Mar 2020 14:16

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	5182		
120	8.5		8.5	12.7#
236	28.5		22.5	33.7





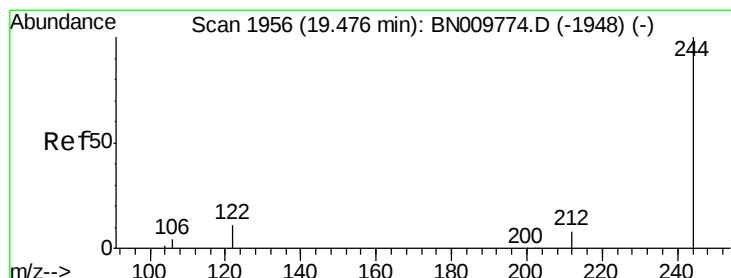
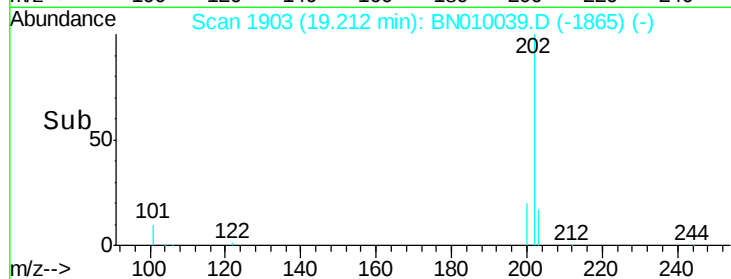
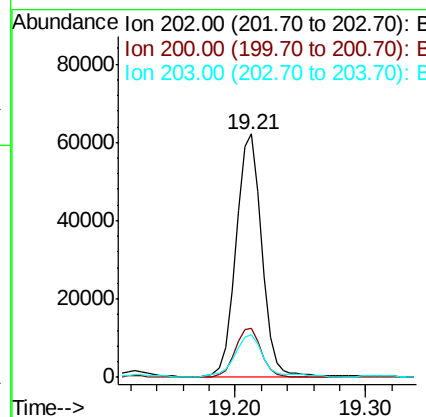
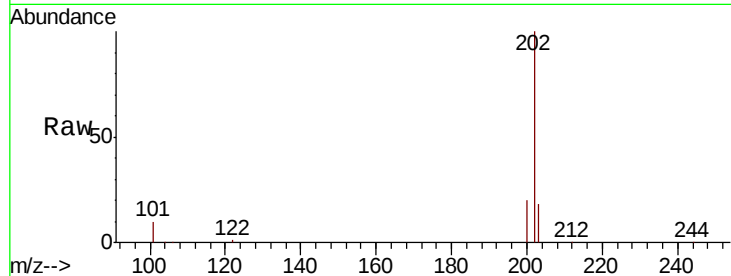
#28
Pvrene
Concen: 4.340 ng
RT: 19.21 min Scan# 1903
Delta R.T. -0.01 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Instrument :
BNA_N
ClientSampleId :
TP-14-EP2-3

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.2	24.2
203	18.9	14.0	21.0

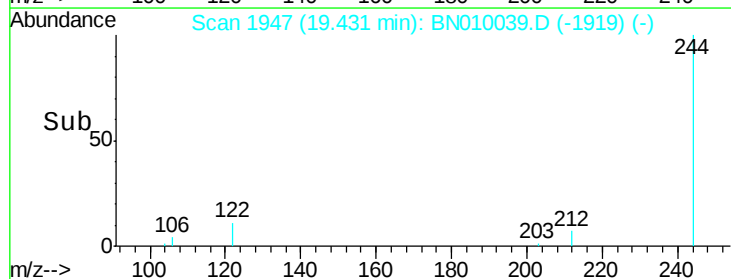
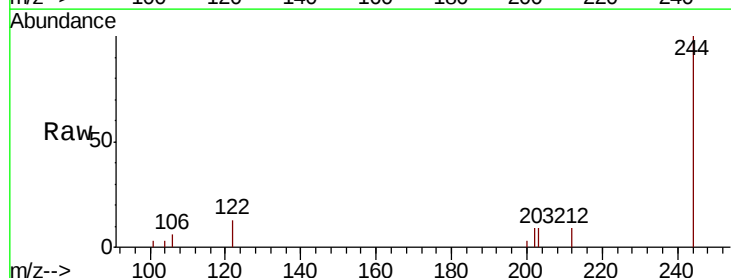
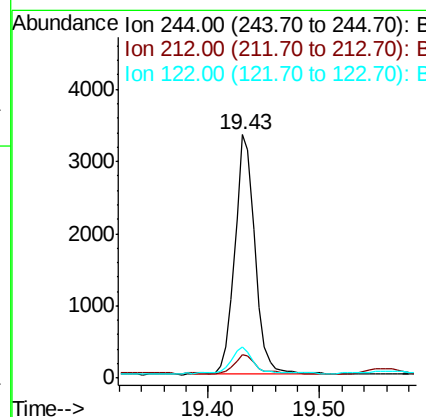
Manual Integrations
APPROVED

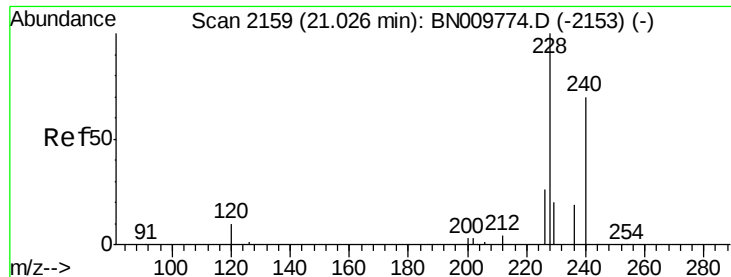
mohammad
3/3/2020 12:27:25 PM



#29
Terphenyl-d14
Concen: 0.336 ng
RT: 19.43 min Scan# 1947
Delta R.T. -0.01 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	8.0	12.0
122	12.8	9.9	14.9





#30

Benzo(a)anthracene

Concen: 3.126 ng

RT: 20.97 min Scan# 2154

Delta R.T. -0.02 min

Lab File: BN010039.D

Acq: 02 Mar 2020 14:16

Instrument :

BNA_N

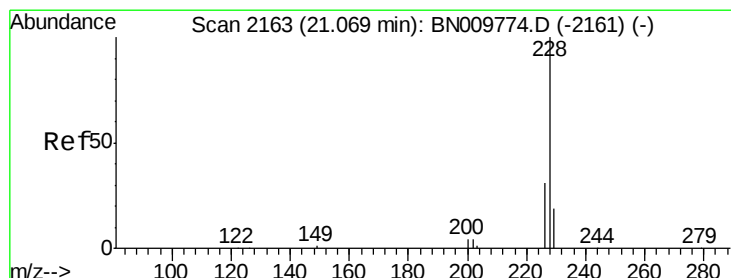
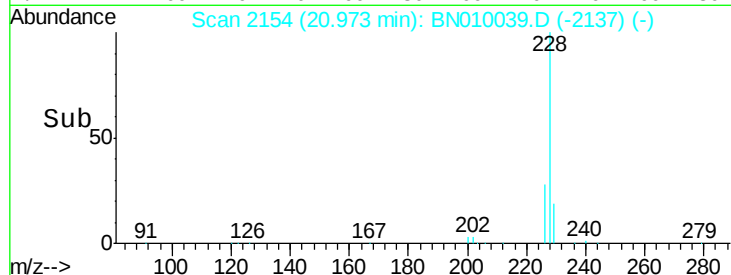
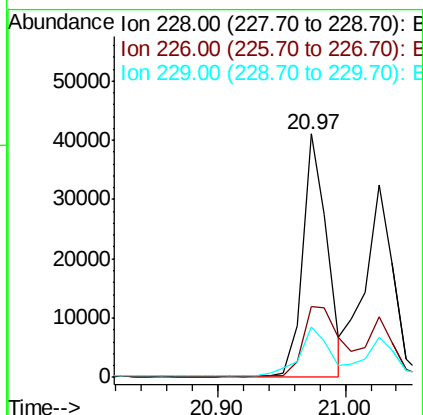
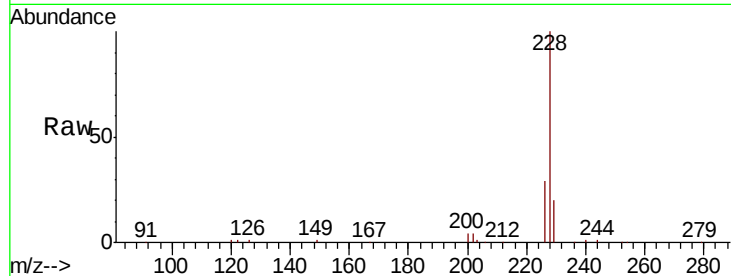
ClientSampled :

TP-14-EP2-3

Tot Ion:228	Resp:	53765
Ion Ratio	Lower	Upper
228	100	
226	29.0	21.6 32.4
229	20.4	17.1 25.7

Manual Integrations
APPROVED

mohammad
3/3/2020 12:27:25 PM



#31

Chrysene

Concen: 2.621 ng m

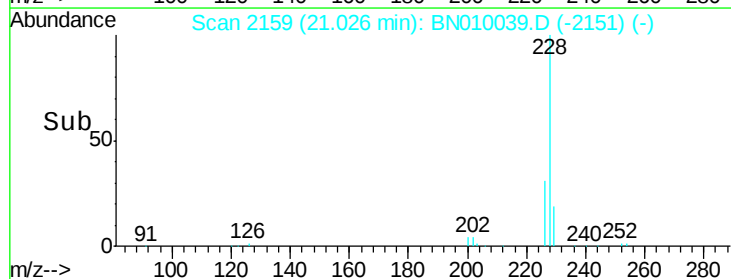
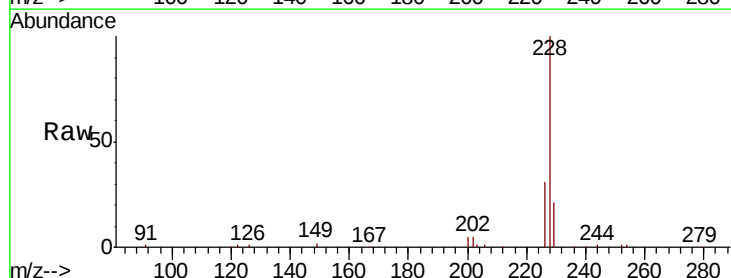
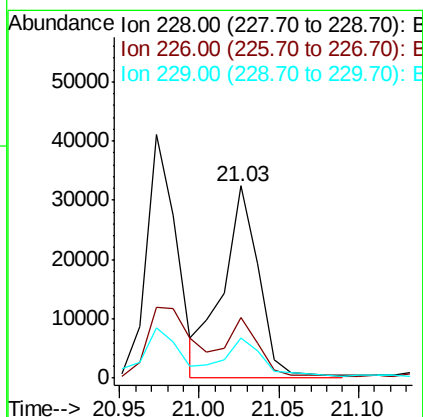
RT: 21.03 min Scan# 2159

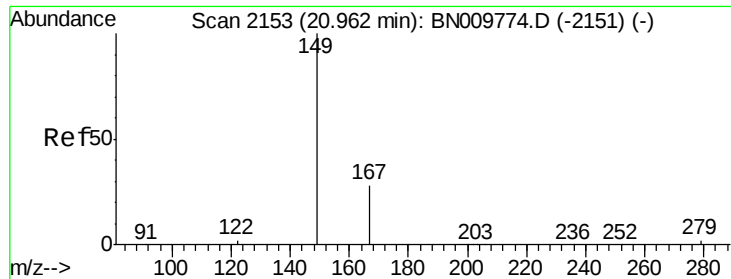
Delta R.T. -0.01 min

Lab File: BN010039.D

Acq: 02 Mar 2020 14:16

Tgt Ion:228	Resp:	52137
Ion Ratio	Lower	Upper
228	100	
226	31.4	24.2 36.4
229	21.2	16.5 24.7





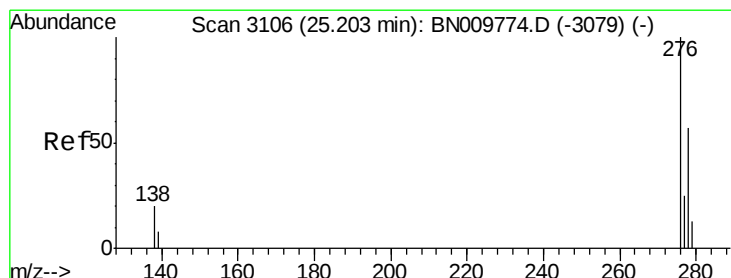
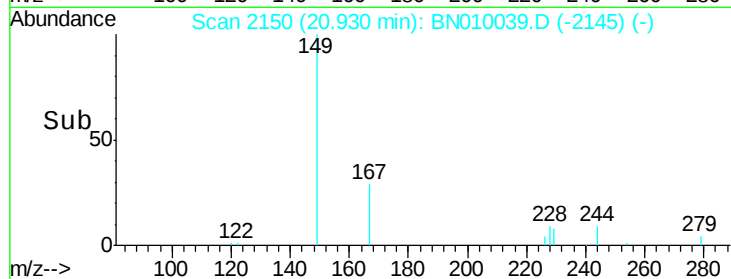
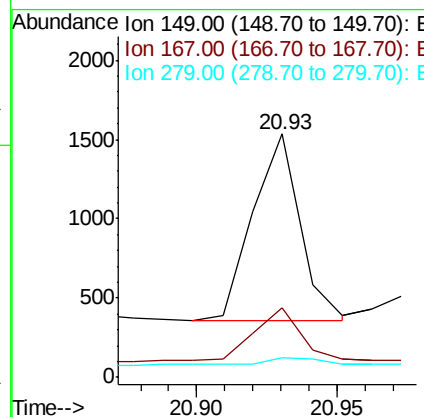
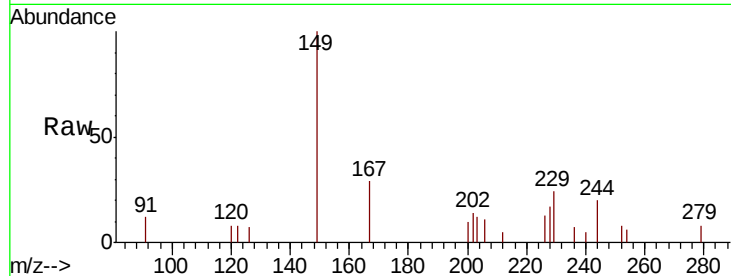
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.162 ng
 RT: 20.93 min Scan# 2150
 Delta R.T. -0.00 min
 Lab File: BN010039.D
 Acq: 02 Mar 2020 14:16

Instrument :
 BNA_N
 ClientSampleId :
 TP-14-EP2-3

Tot Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.0	33.0
279	4.3	3.2	4.8

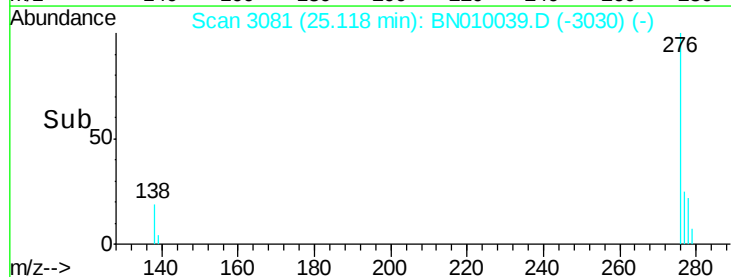
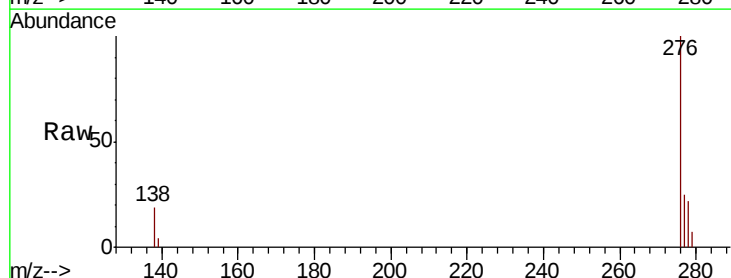
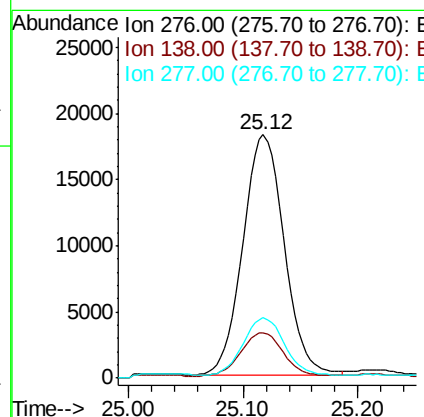
Manual Integrations
 APPROVED

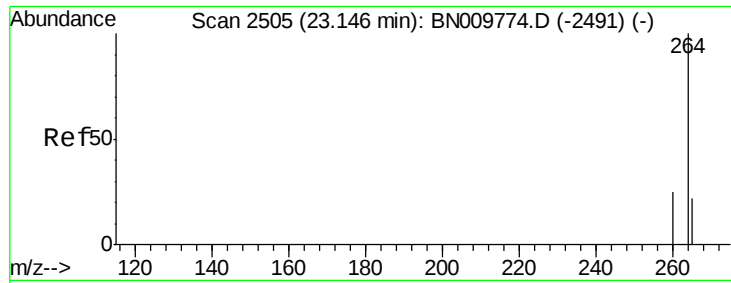
mohammad
 3/3/2020 12:27:25 PM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 2.185 ng
 RT: 25.12 min Scan# 3081
 Delta R.T. -0.03 min
 Lab File: BN010039.D
 Acq: 02 Mar 2020 14:16

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.1	16.6	25.0
277	24.5	18.6	28.0





#34

Pervlene-d12

Concen: 0.400 ng

RT: 23.09 min Scan# 2488

Delta R.T. -0.02 min

Lab File: BN010039.D

Acq: 02 Mar 2020 14:16

Instrument :

BNA_N

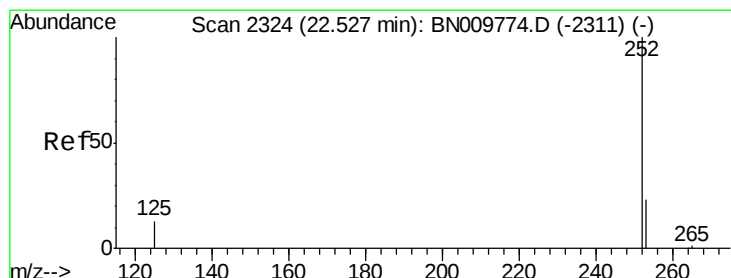
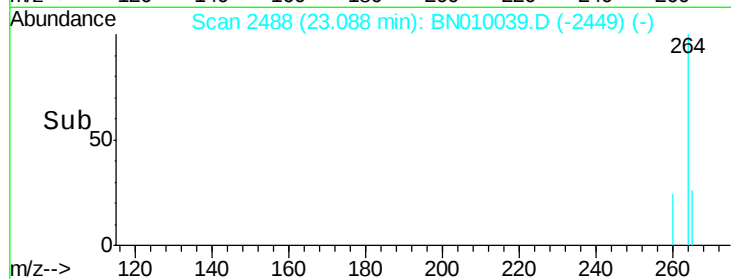
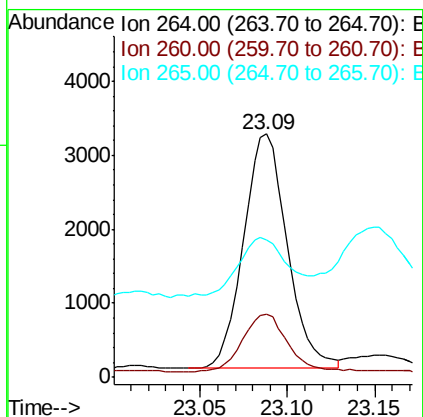
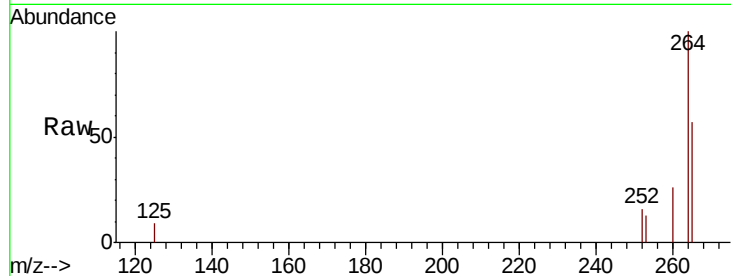
ClientSampleId :

TP-14-EP2-3

Tot Ion:	264	Resp:	5526
Ion Ratio	Lower	Upper	
264	100		
260	25.7	20.4	30.6
265	56.5	50.5	75.7

Manual Integrations
APPROVED

mohammad
3/3/2020 12:27:25 PM



#35

Benzo(b)fluoranthene

Concen: 4.071 ng

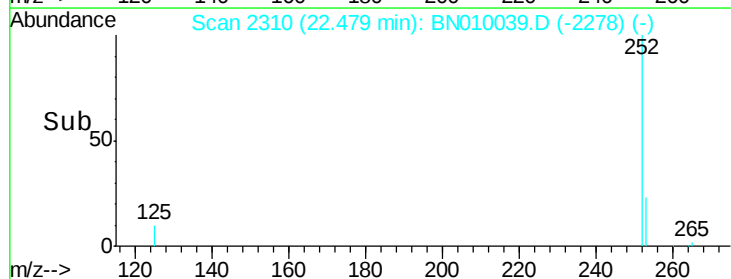
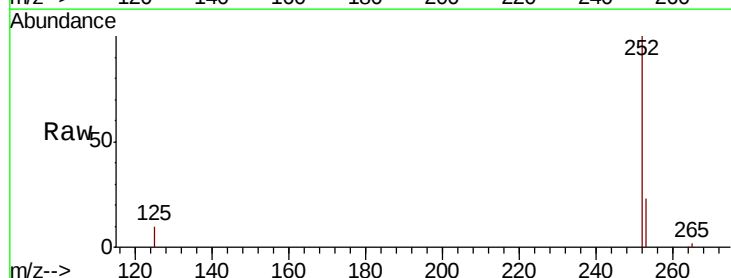
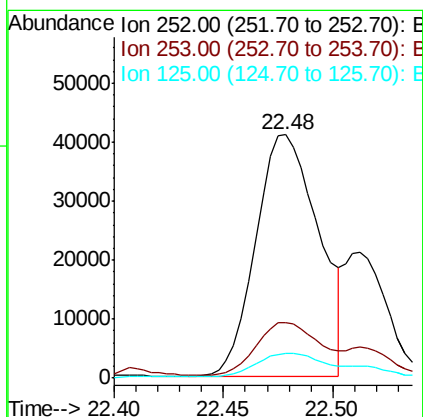
RT: 22.48 min Scan# 2310

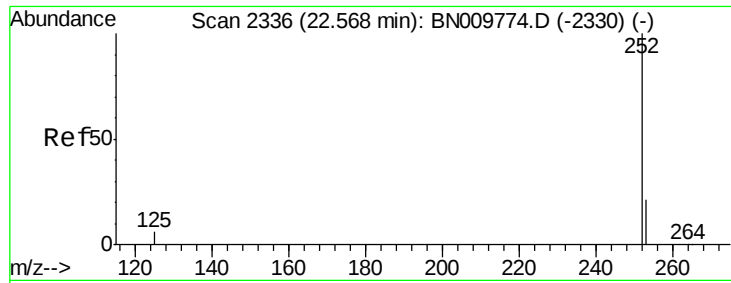
Delta R.T. -0.01 min

Lab File: BN010039.D

Acq: 02 Mar 2020 14:16

Tgt Ion:	252	Resp:	82250
Ion Ratio	Lower	Upper	
252	100		
253	23.0	23.1	34.7#
125	10.4	18.6	27.8#





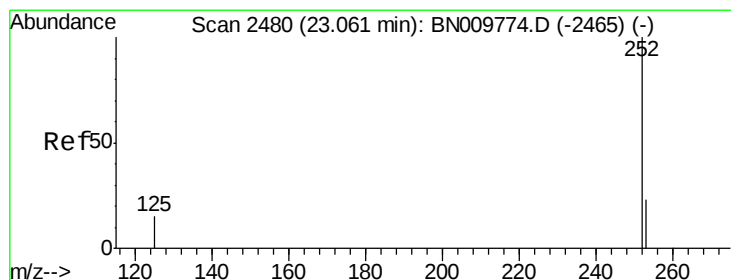
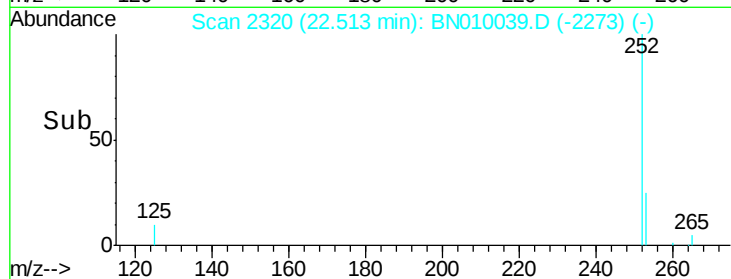
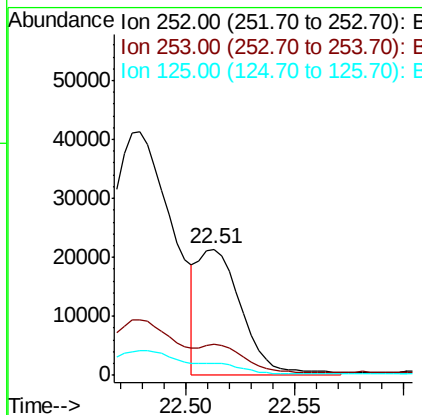
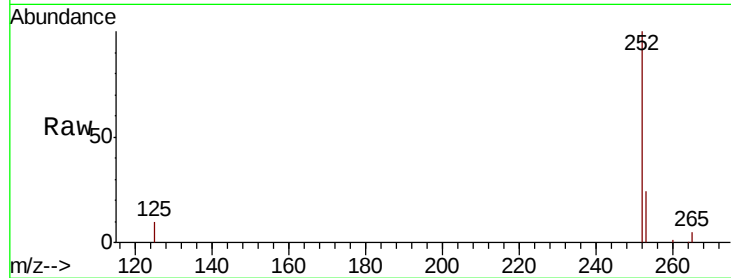
#36
Benzo(k)fluoranthene
Concen: 1.371 ng m
RT: 22.51 min Scan# 2320
Delta R.T. -0.02 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Instrument :
BNA_N
ClientSampleId :
TP-14-EP2-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	22.0	33.0
125	9.8	11.1	16.7#

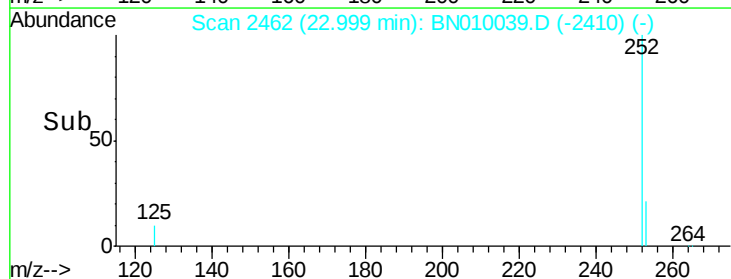
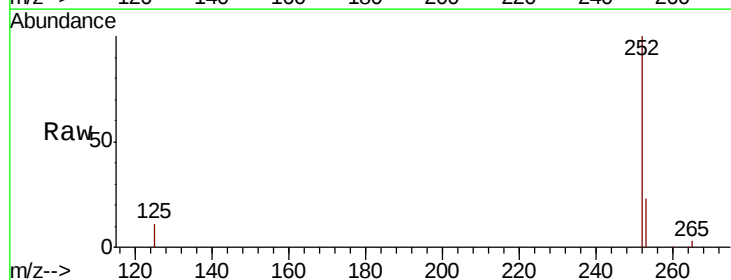
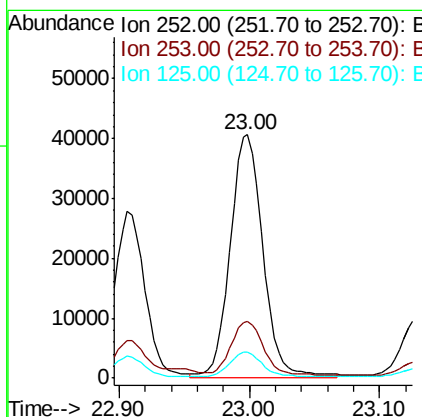
Manual Integrations
APPROVED

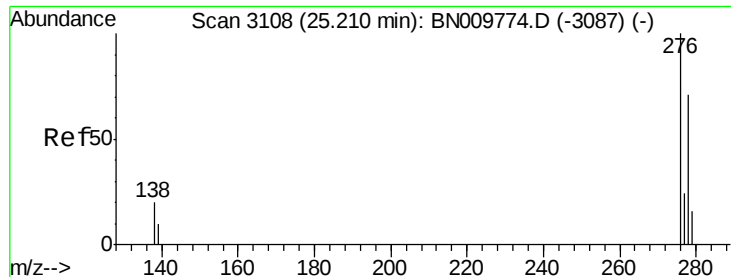
mohammad
3/3/2020 12:27:25 PM



#37
Benzo(a)pyrene
Concen: 3.879 ng m
RT: 23.00 min Scan# 2462
Delta R.T. -0.02 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	24.6	36.8#
125	10.6	14.3	21.5#





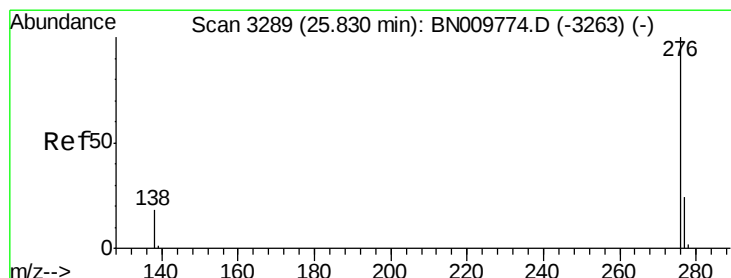
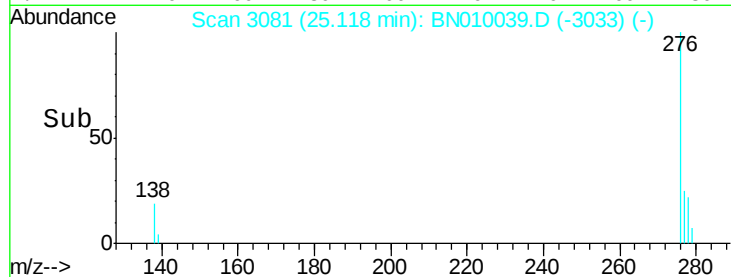
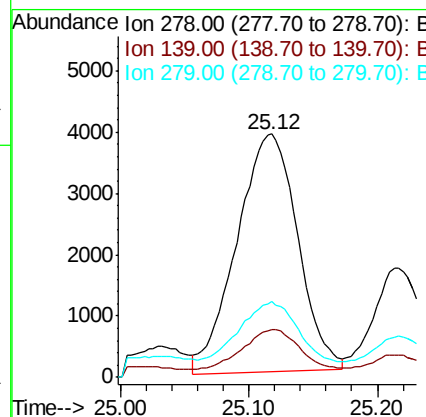
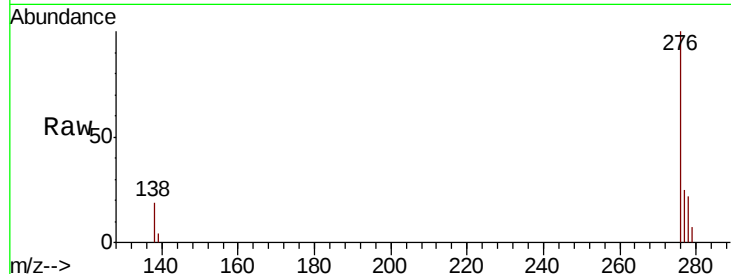
#38
Dibenzo(a,h)anthracene
Concen: 0.710 ng
RT: 25.12 min Scan# 3081
Delta R.T. -0.04 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Instrument :
BNA_N
ClientSampled :
TP-14-EP2-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.8	14.4	21.6
279	31.1	24.4	36.6

Manual Integrations
APPROVED

mohammad
3/3/2020 12:27:25 PM



#39
Benzo(g,h,i)perylene
Concen: 2.498 ng
RT: 25.73 min Scan# 3261
Delta R.T. -0.03 min
Lab File: BN010039.D
Acq: 02 Mar 2020 14:16

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	21.4	32.0
138	18.9	17.0	25.4

