

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091520\
 Data File : BF121583.D
 Acq On : 15 Sep 2020 18:02
 Operator : JU/CG
 Sample : L4013-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PAV-B40-091420-10-15

Manual Integrations
 APPROVED

mohammad
 9/16/2020 10:14:52 AM

Quant Time: Sep 16 01:33:10 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 10 16:47:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	227340	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	883152	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	453691	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	794401	20.00	ng	0.00
76) Chrysene-d12	13.99	240	449692	20.00	ng	0.00
86) Perylene-d12	15.45	264	429405	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	1238805	80.98	ng	0.02
7) Phenol-d6	6.47	99	1598600	79.65	ng	0.01
23) Nitrobenzene-d5	7.40	82	1120125	68.10	ng	0.00
42) 2,4,6-Tribromophenol	10.66	330	463091	82.13	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	1849276	61.73	ng	0.00
79) Terphenyl-d14	12.94	244	1658063	74.70	ng	0.00

Target Compounds

						Qvalue
10) Phenol	6.48	94	99186	4.641	ng	96
50) Dimethylphthalate	9.58	163	270957	8.240	ng	99
52) Acenaphthene	9.90	154	189438	6.820	ng	99
55) Dibenzofuran	10.07	168	184541	4.718	ng	99
58) Fluorene	10.42	166	223197	7.461	ng	99
71) Phenanthrene	11.39	178	2881931	66.585	ng	98
72) Anthracene	11.43	178	1007824	22.564	ng	99
73) Carbazole	11.58	167	178536	4.429	ng	98
75) Fluoranthene	12.57	202	3074094	66.534	ng	98
78) Pyrene	12.80	202	2719569	82.773	ng	99
81) Benzo(a)anthracene	13.99	228	1050792	36.935	ng	100
83) Chrysene	14.02	228	871273	30.243	ng	98
84) Bis(2-ethylhexyl)phthalate	13.97	149	51829	2.920	ng	99
87) Indeno(1,2,3-cd)pyrene	16.89	276	499943	17.878	ng	94
88) Benzo(b)fluoranthene	15.03	252	931183m	32.438	ng	
89) Benzo(k)fluoranthene	15.05	252	297946m	11.334	ng	
90) Benzo(a)pyrene	15.39	252	740970	30.366	ng	98
91) Dibenzo(a,h)anthracene	16.90	278	114138	4.903	ng	96
92) Benzo(a,h,i)perylene	17.33	276	458701	20.046	ng	97

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

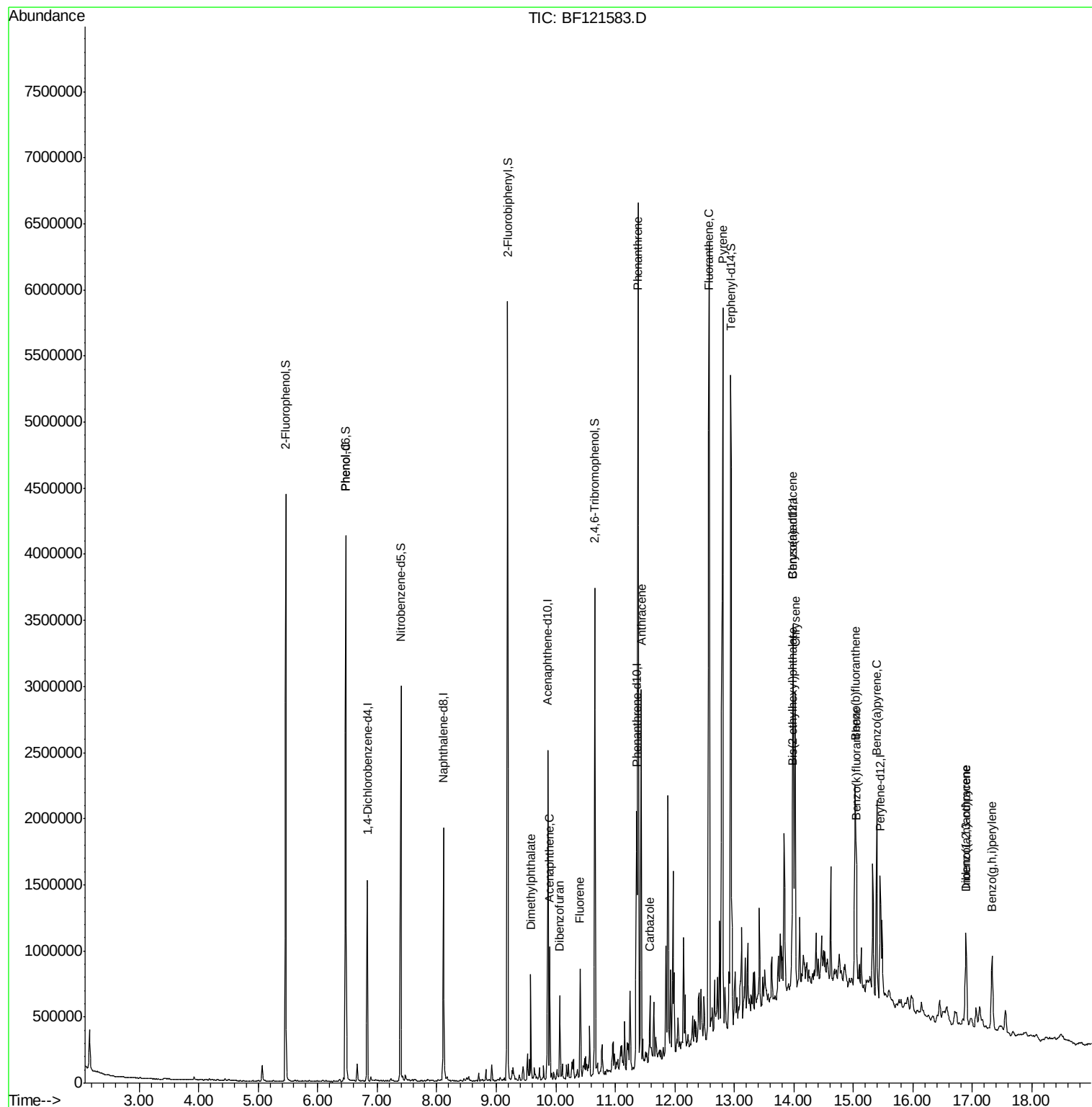
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091520\
Data File : BF121583.D
Acq On : 15 Sep 2020 18:02
Operator : JU/CG
Sample : L4013-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

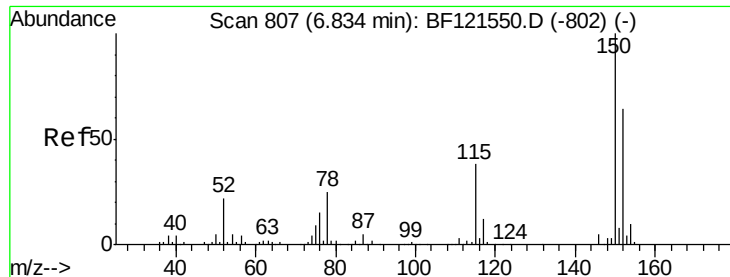
Instrument :
BNA_F
ClientSampleId :
PAV-B40-091420-10-15

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:52 AM

Quant Time: Sep 16 01:33:10 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 10 16:47:54 2020
Response via : Initial Calibration





#1

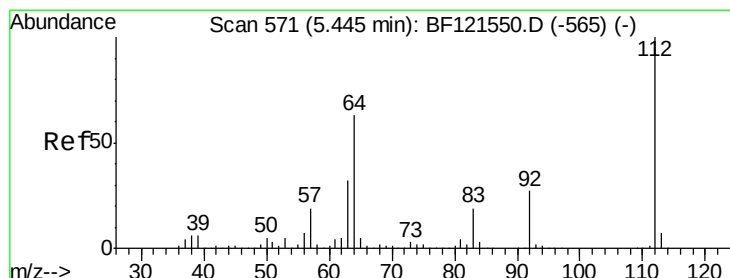
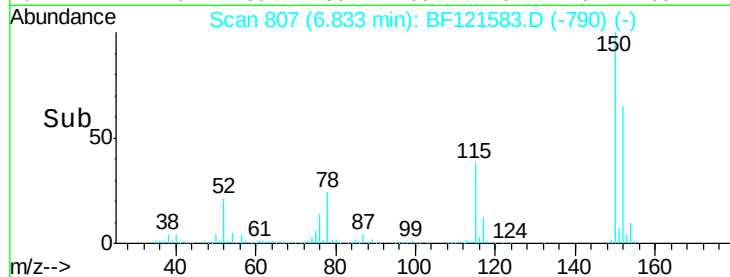
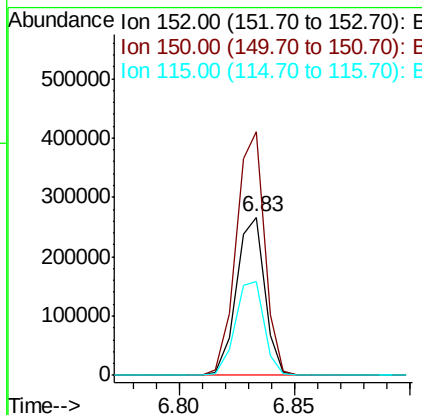
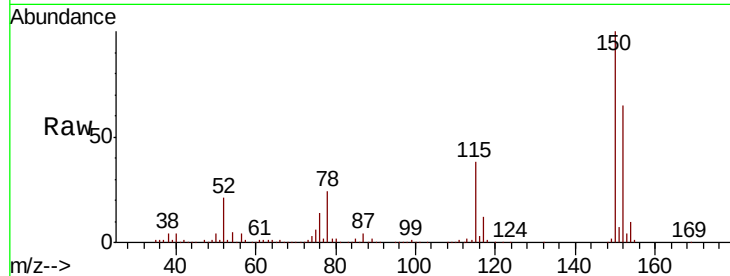
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.00 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Instrument :
BNA_F
ClientSampleId :
PAV-B40-091420-10-15

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.9	125.8	188.6
115	59.1	47.8	71.8

Manual Integrations
APPROVED

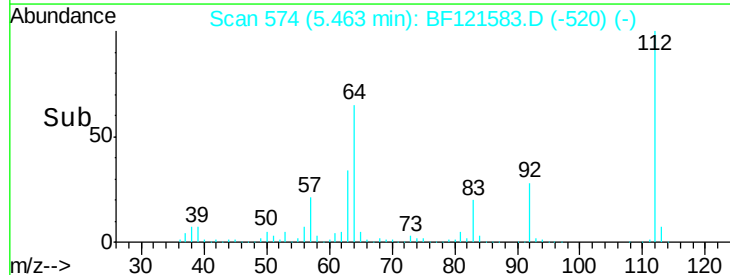
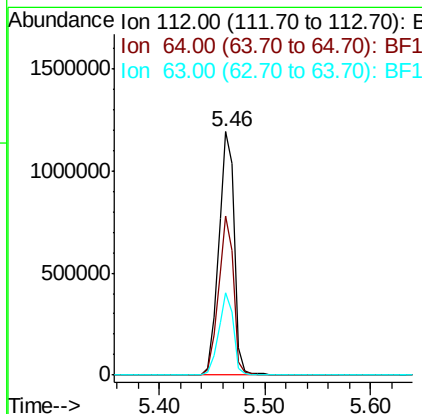
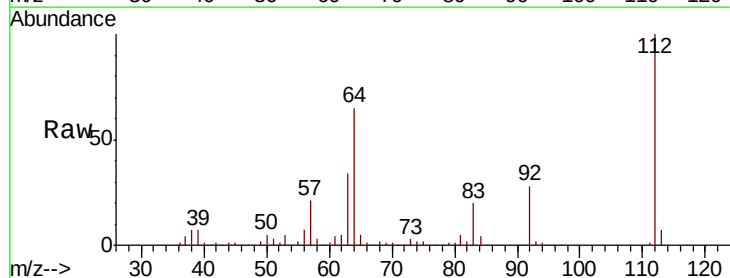
mohammad
9/16/2020 10:14:52 AM

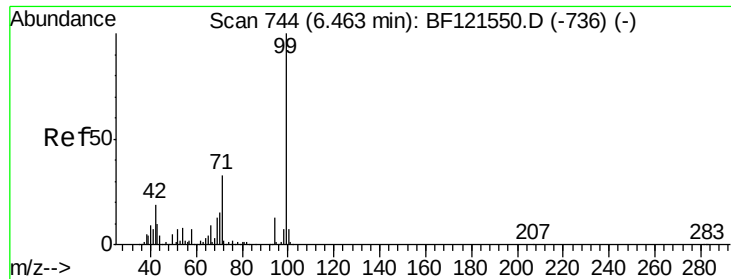


#5

2-Fluorophenol
Concen: 80.981 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.02 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.2	50.3	75.5
63	33.7	25.6	38.4





#7

Phenol-d6

Concen: 79.654 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.01 min

Lab File: BF121583.D

Acq: 15 Sep 2020 18:02

Instrument :

BNA_F

ClientSampleId :

PAV-B40-091420-10-15

Tot Ion: 99 Resp: 1598600

Ion Ratio Lower Upper

99 100

42 19.5 15.5 23.3

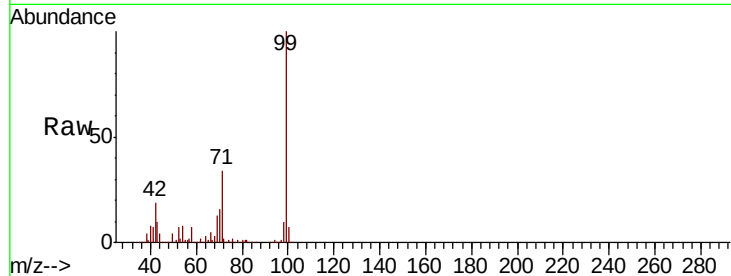
71 33.7 26.1 39.1

Manual Integrations

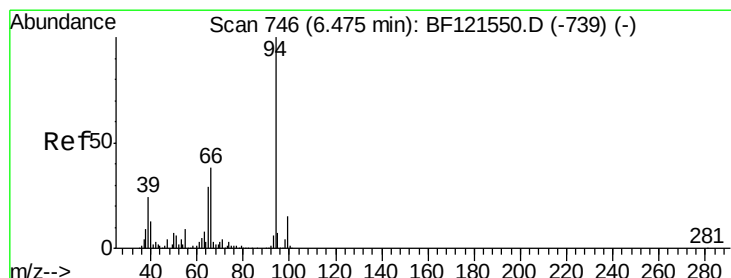
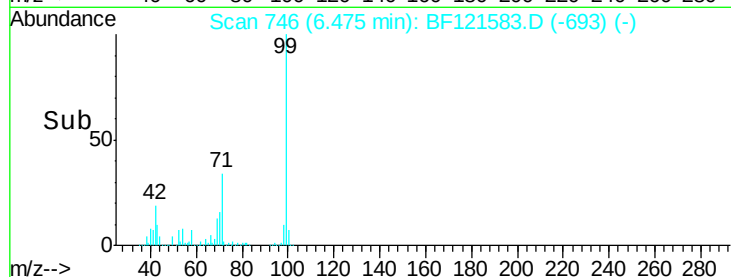
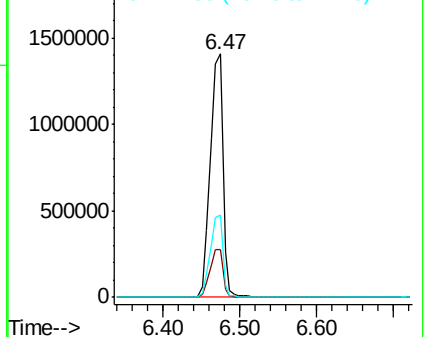
APPROVED

mohammad

9/16/2020 10:14:52 AM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 4.641 ng

RT: 6.48 min Scan# 747

Delta R.T. 0.01 min

Lab File: BF121583.D

Acq: 15 Sep 2020 18:02

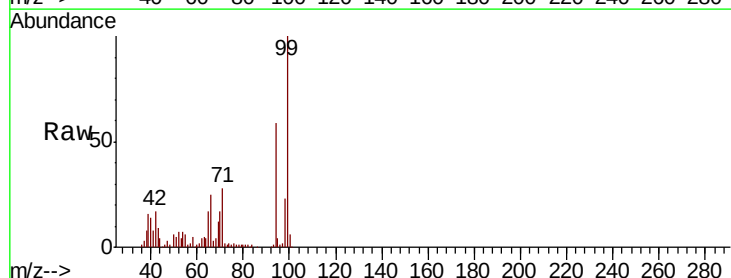
Tgt Ion: 94 Resp: 99186

Ion Ratio Lower Upper

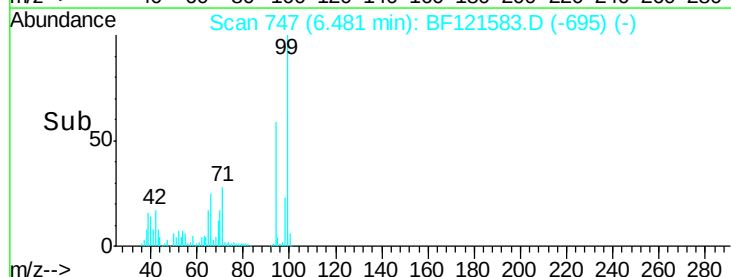
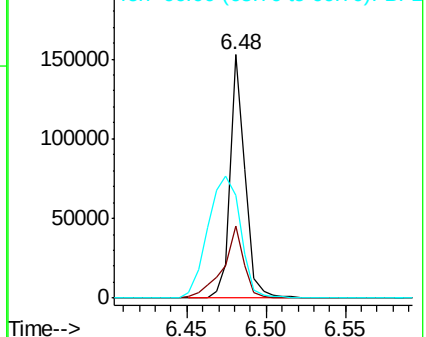
94 100

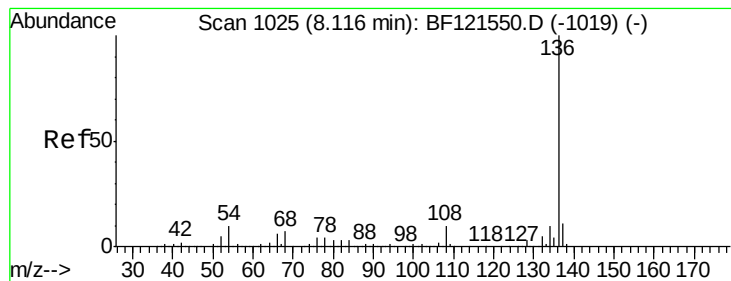
65 29.5 9.4 49.4

66 42.3 18.3 58.3



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.00 min

Lab File: BF121583.D

Acq: 15 Sep 2020 18:02

Instrument :

BNA_F

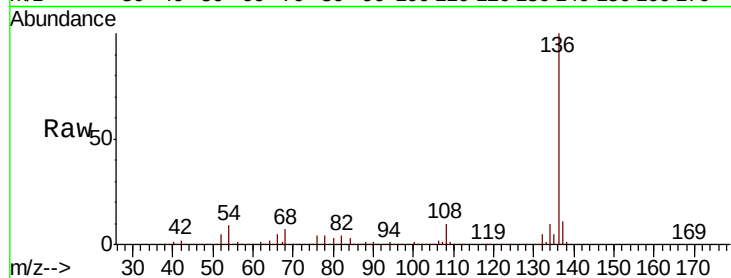
ClientSampleId :

PAV-B40-091420-10-15

Tot Ion	Ratio	Resp	Lower	Upper
136	100	883152		
137	10.9		9.0	13.6
54	8.9		7.6	11.4
68	6.6		5.7	8.5

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:52 AM

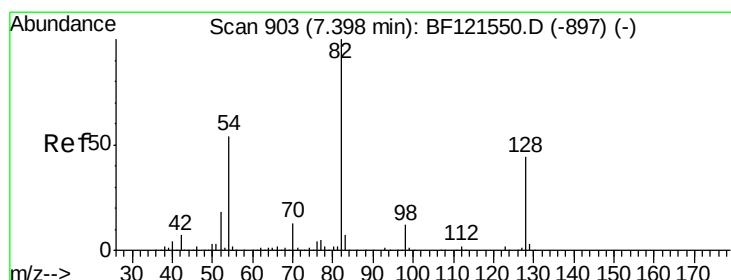
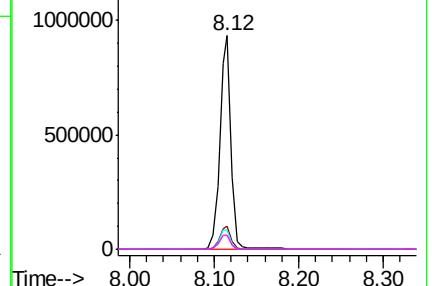
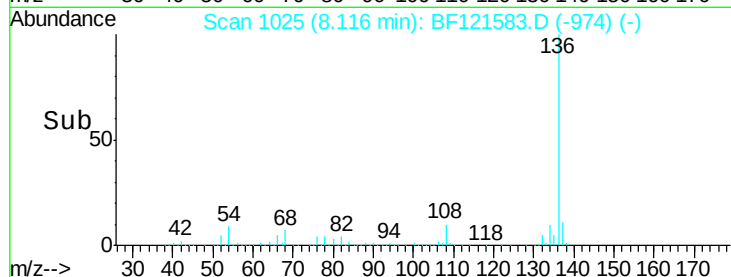


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 68.099 ng

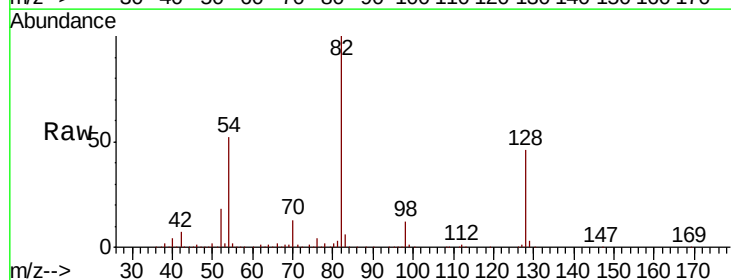
RT: 7.40 min Scan# 903

Delta R.T. -0.00 min

Lab File: BF121583.D

Acq: 15 Sep 2020 18:02

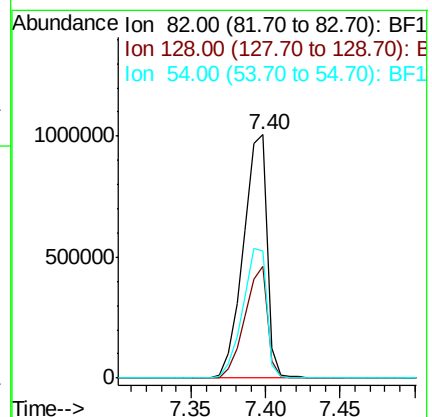
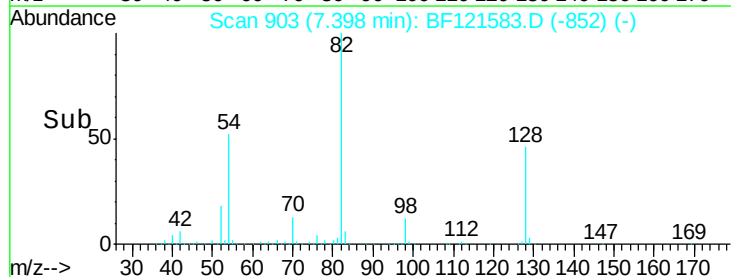
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	1120125		
128	45.9		35.1	52.7
54	52.3		43.0	64.6

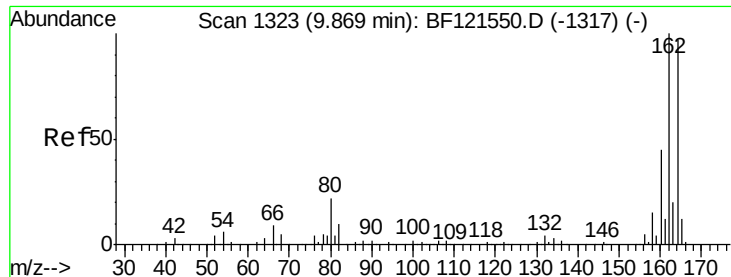


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





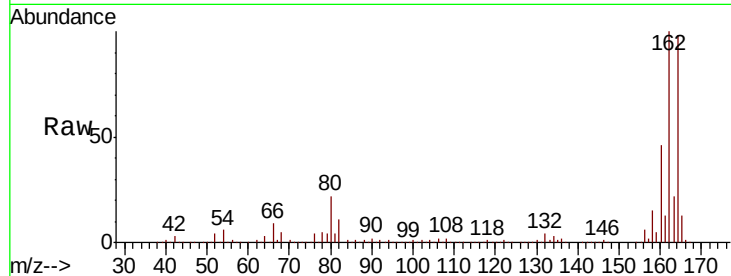
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.00 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Instrument :
BNA_F
ClientSampleId :
PAV-B40-091420-10-15

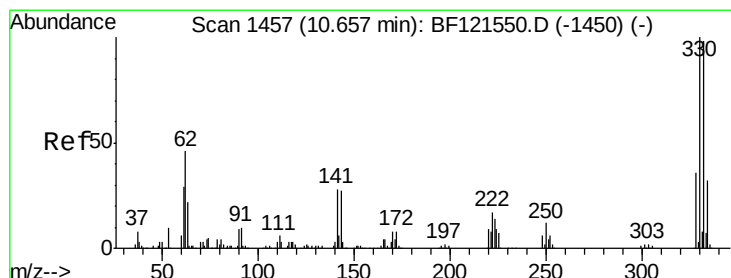
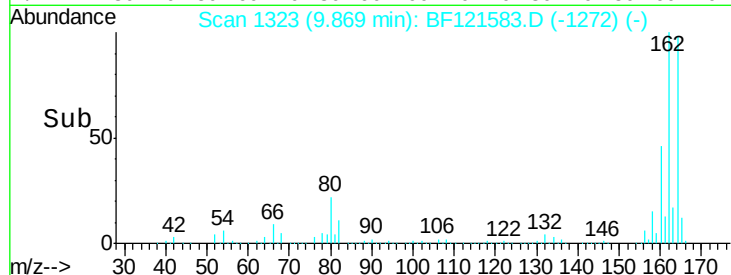
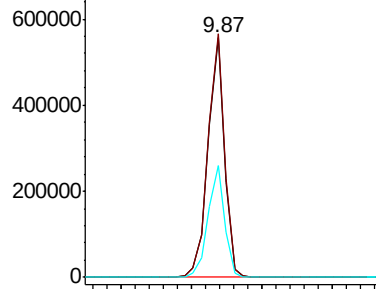
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.6	82.3	123.5	
160	46.4	37.0	55.4	

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:52 AM

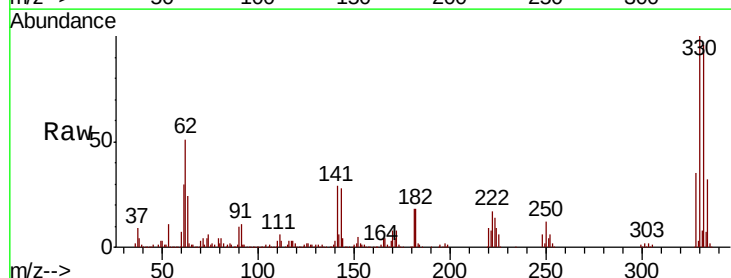


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

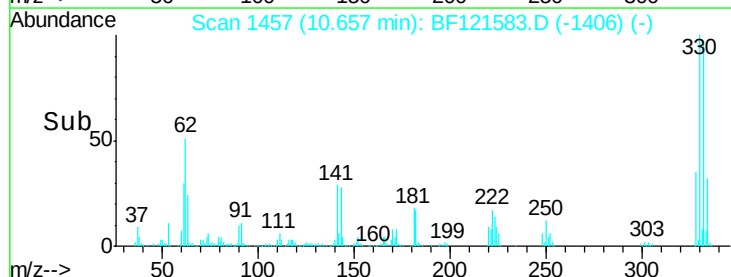
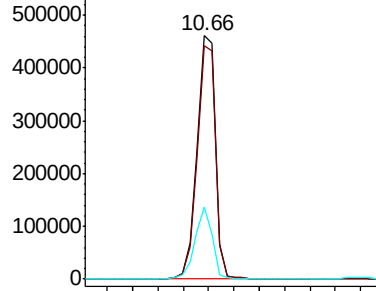


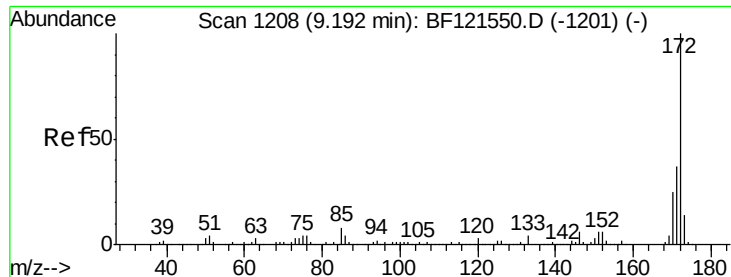
#42
2,4,6-Tribromophenol
Concen: 82.126 ng
RT: 10.66 min Scan# 1457
Delta R.T. -0.00 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.5	77.1	115.7	
141	27.8	23.6	35.4	



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





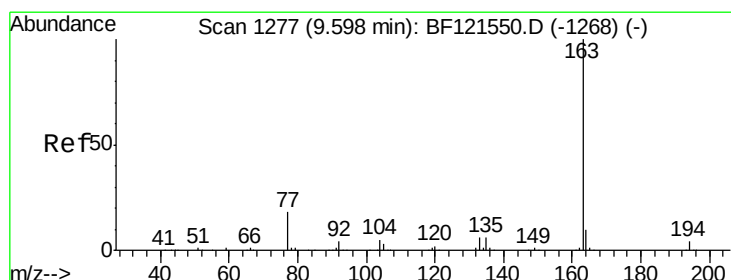
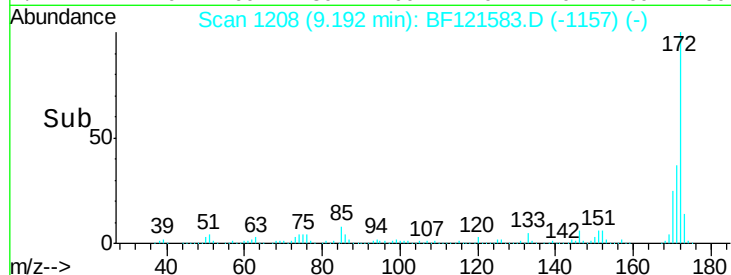
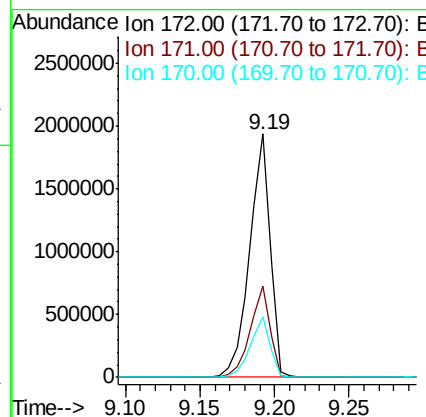
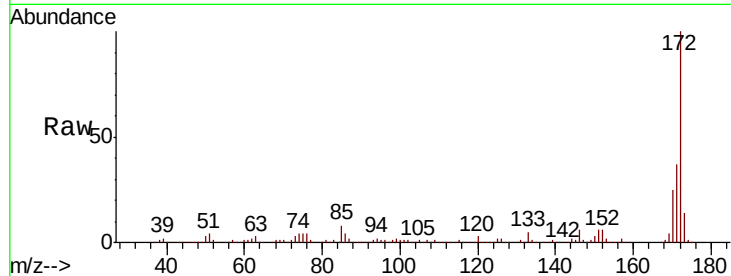
#45
2-Fluorobiphenyl
Concen: 61.733 ng
RT: 9.19 min Scan# 1208
Delta R.T. -0.00 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Instrument :
BNA_F
ClientSampleId :
PAV-B40-091420-10-15

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.8	44.6
170	25.1	19.8	29.8

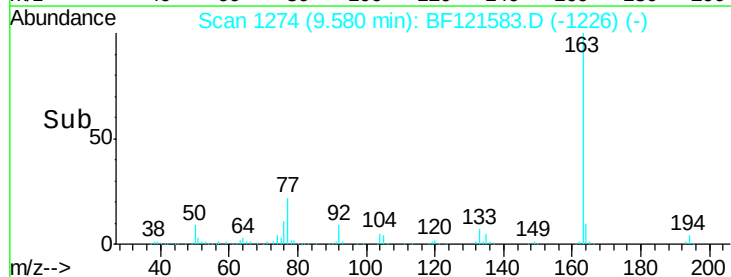
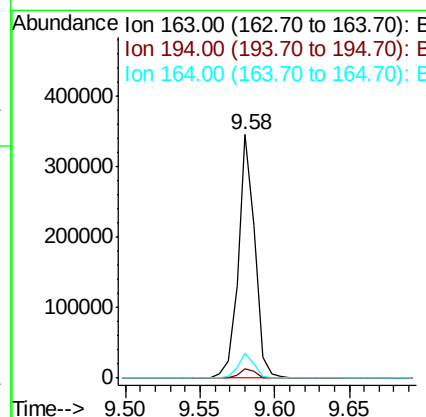
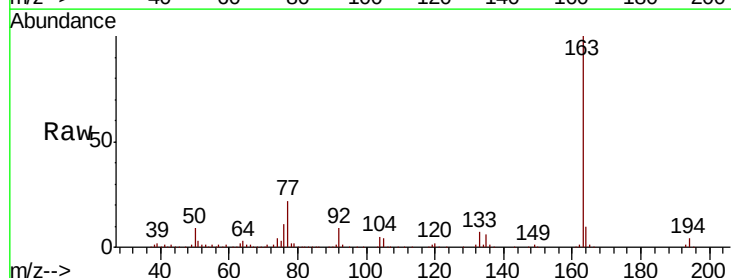
Manual Integrations
APPROVED

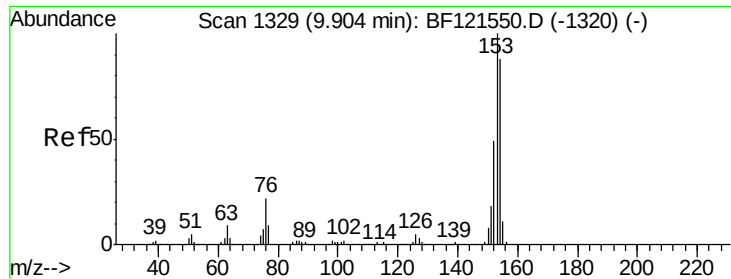
mohammad
9/16/2020 10:14:52 AM



#50
Dimethylphthalate
Concen: 8.240 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.02 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.4	5.0
164	10.0	7.9	11.9





#52

Acenaphthene

Concen: 6.820 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF121583.D

Acq: 15 Sep 2020 18:02

Instrument :

BNA_F

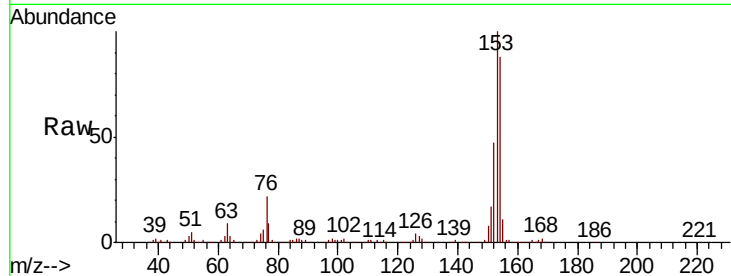
ClientSampleId :

PAV-B40-091420-10-15

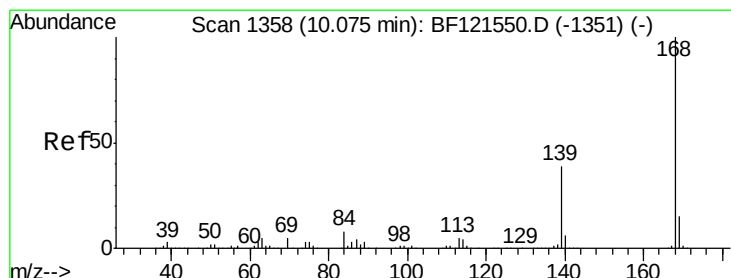
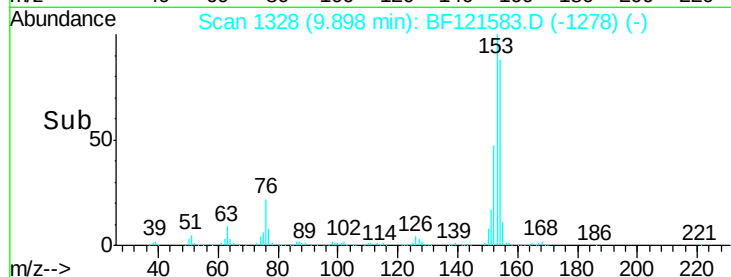
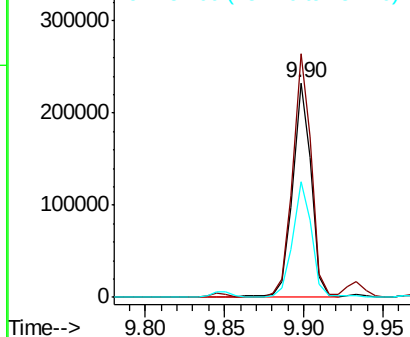
Tot Ion:	154	Resp:	189438
Ion Ratio	Lower	Upper	
154	100		
153	113.5	91.0	136.4
152	53.9	44.2	66.2

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:52 AM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 4.718 ng

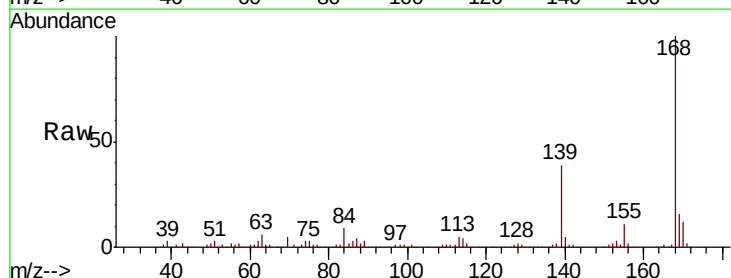
RT: 10.07 min Scan# 1357

Delta R.T. -0.01 min

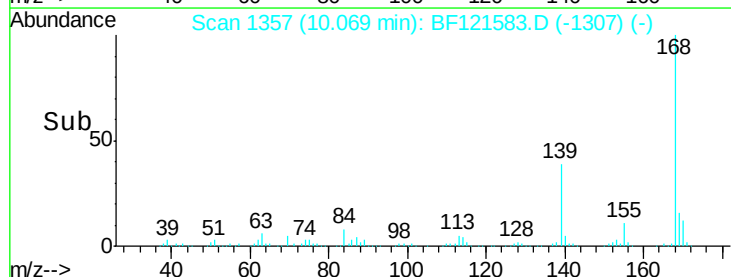
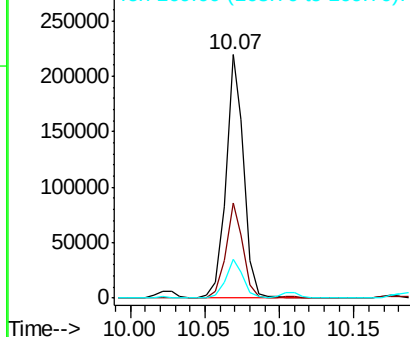
Lab File: BF121583.D

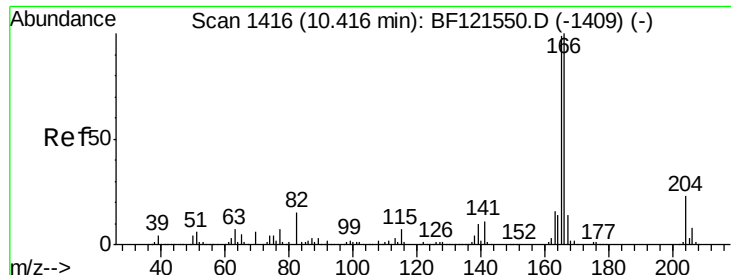
Acq: 15 Sep 2020 18:02

Tgt Ion:	168	Resp:	184541
Ion Ratio	Lower	Upper	
168	100		
139	39.2	31.4	47.0
169	15.9	11.9	17.9



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





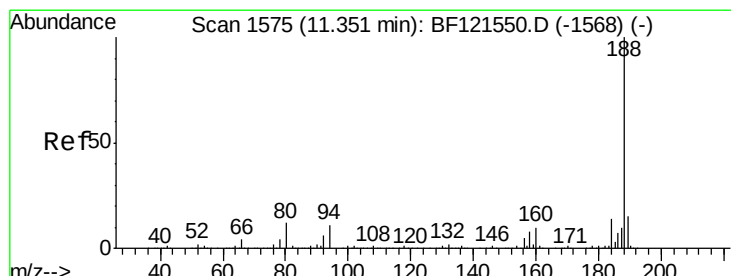
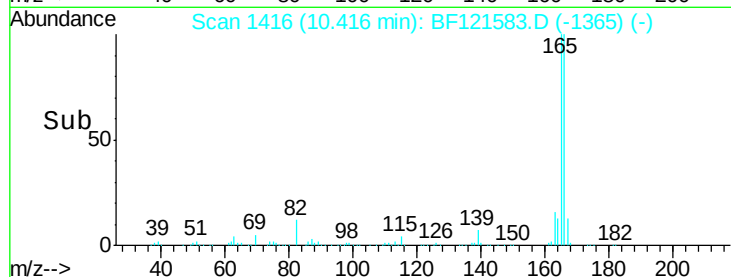
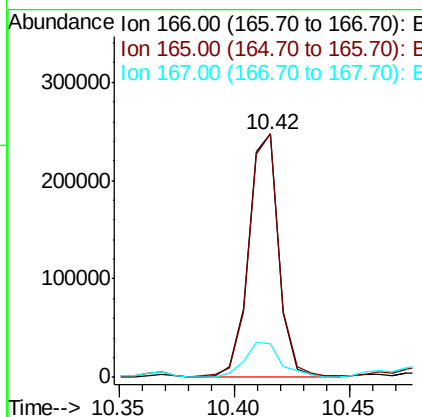
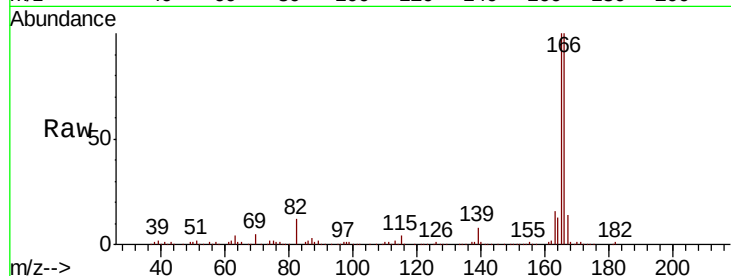
#58
Fluorene
Concen: 7.461 ng
RT: 10.42 min Scan# 1416
Delta R.T. -0.00 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Instrument :
BNA_F
ClientSampleId :
PAV-B40-091420-10-15

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		223197		
165	100.2	79.0	118.4		
167	13.7	11.0	16.6		

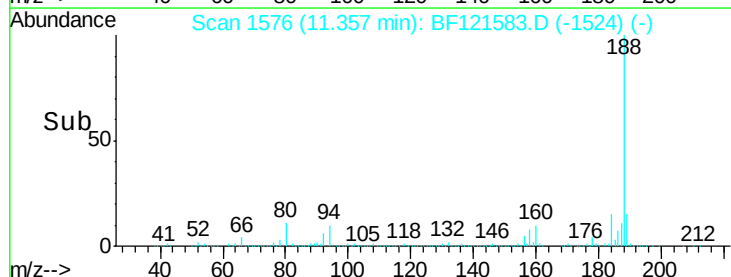
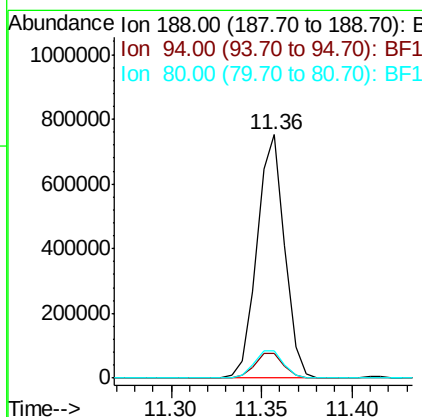
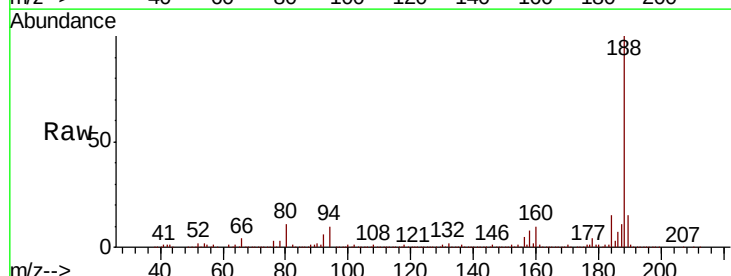
Manual Integrations
APPROVED

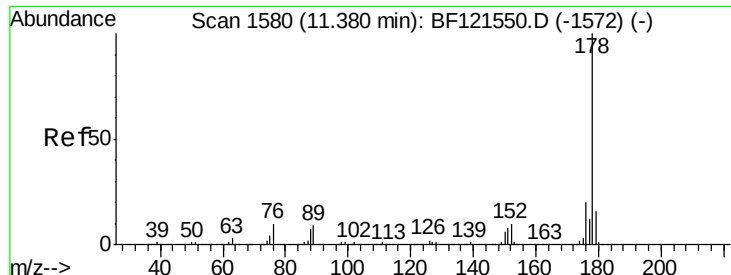
mohammad
9/16/2020 10:14:52 AM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.01 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		794401		
94	10.4	8.7	13.1		
80	11.4	9.3	13.9		





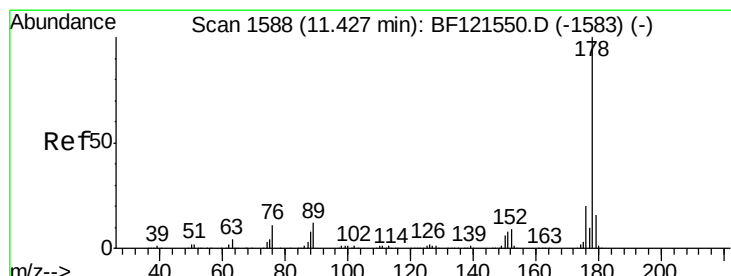
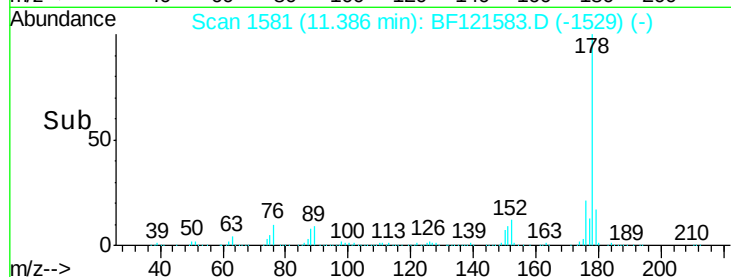
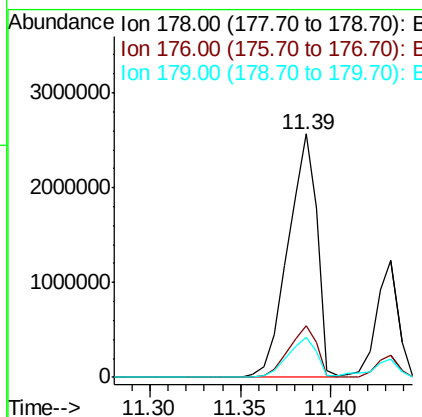
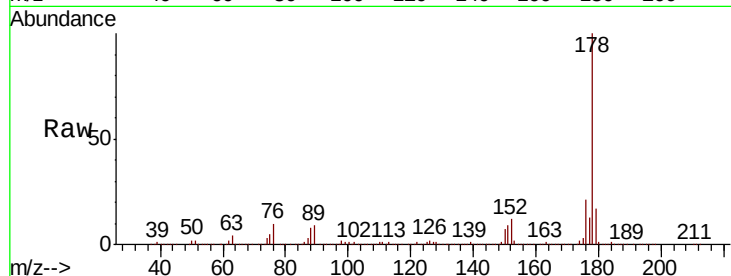
#71
Phenanthrene
Concen: 66.585 ng
RT: 11.39 min Scan# 1581
Delta R.T. 0.01 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Instrument :
BNA_F
ClientSampleId :
PAV-B40-091420-10-15

Tot Ion:178 Resp: 2881931
Ion Ratio Lower Upper
178 100
176 21.3 16.2 24.4
179 16.7 12.6 19.0

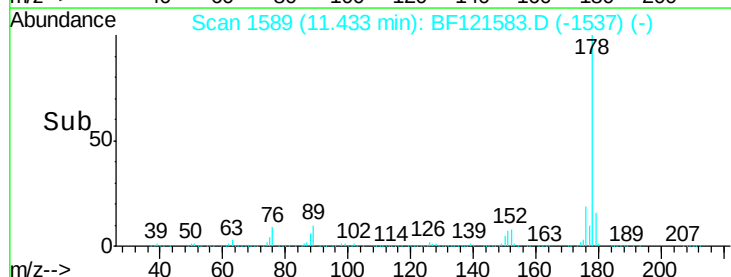
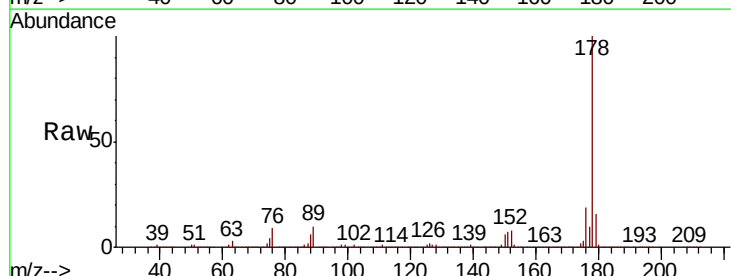
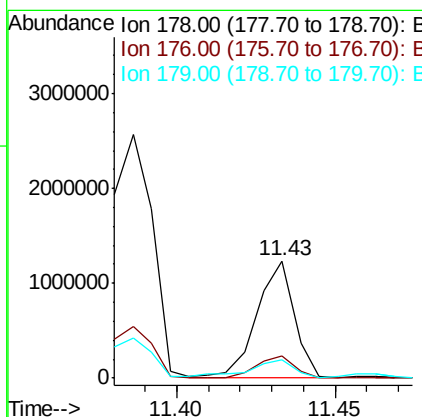
Manual Integrations
APPROVED

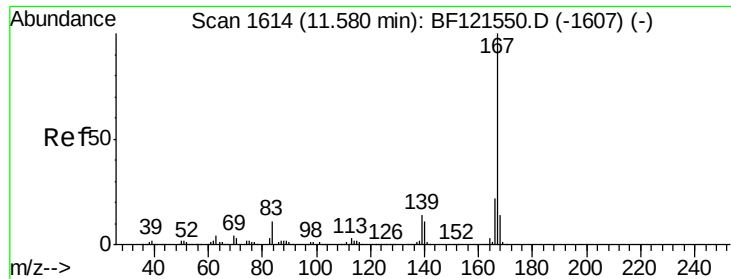
mohammad
9/16/2020 10:14:52 AM



#72
Anthracene
Concen: 22.564 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.01 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Tgt Ion:178 Resp: 1007824
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 15.7 12.8 19.2





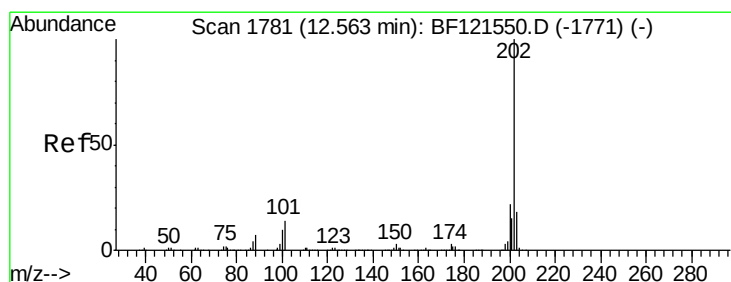
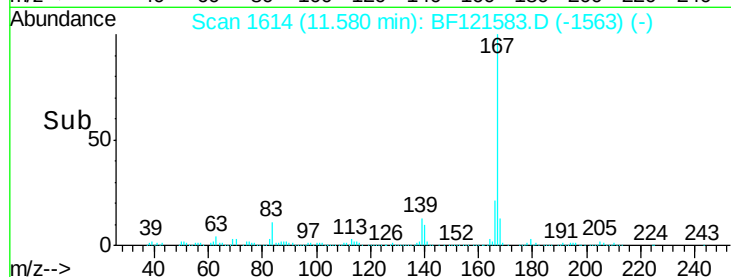
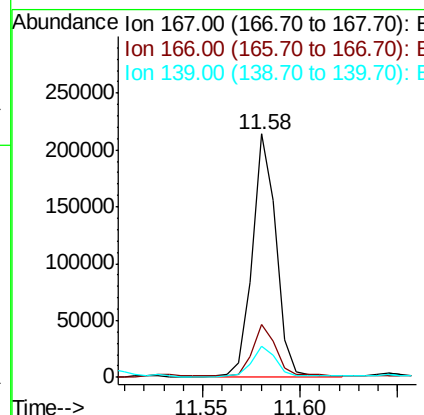
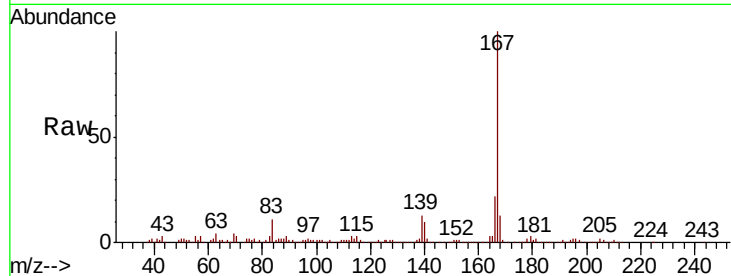
#73
 Carbazole
 Concen: 4.429 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.00 min
 Lab File: BF121583.D
 Acq: 15 Sep 2020 18:02

Instrument :
 BNA_F
 ClientSampleId :
 PAV-B40-091420-10-15

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.9	26.9
139	12.8	11.2	16.8

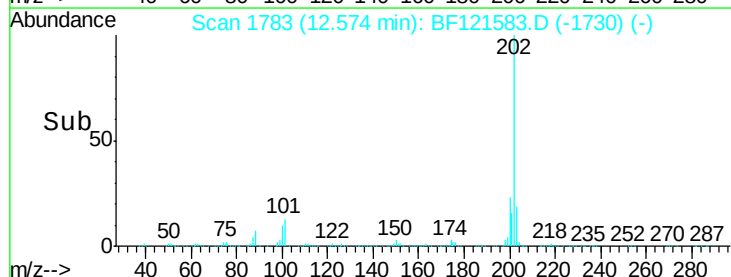
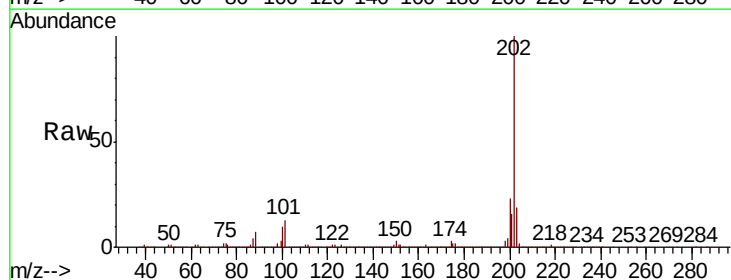
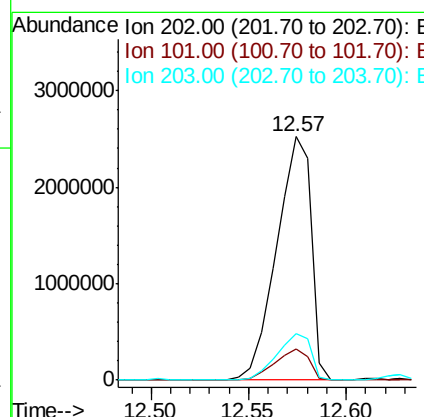
Manual Integrations
 APPROVED

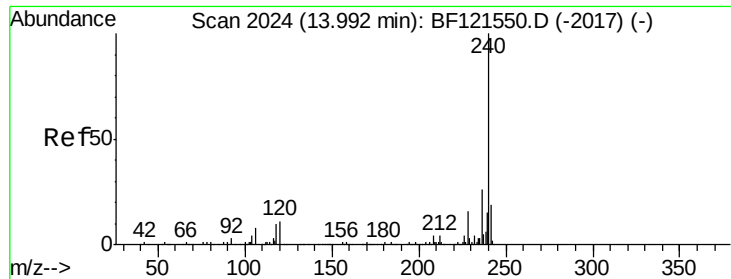
mohammad
 9/16/2020 10:14:52 AM



#75
 Fluoranthene
 Concen: 66.534 ng
 RT: 12.57 min Scan# 1783
 Delta R.T. 0.01 min
 Lab File: BF121583.D
 Acq: 15 Sep 2020 18:02

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	34.0
203	19.1	0.0	38.2





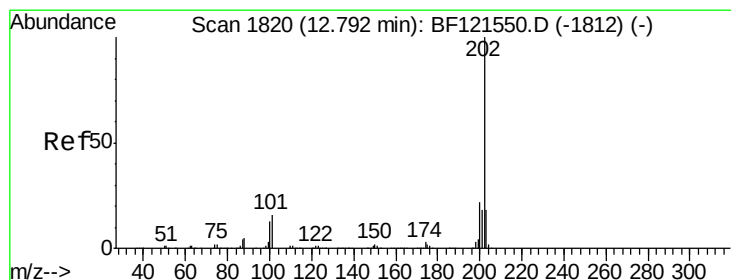
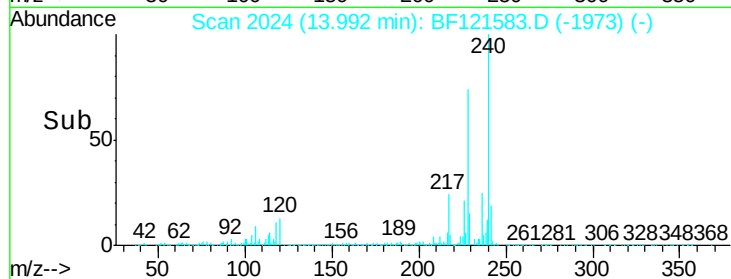
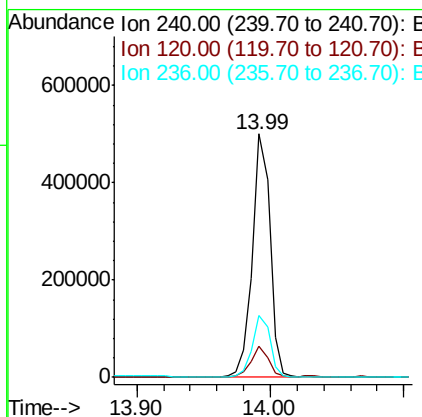
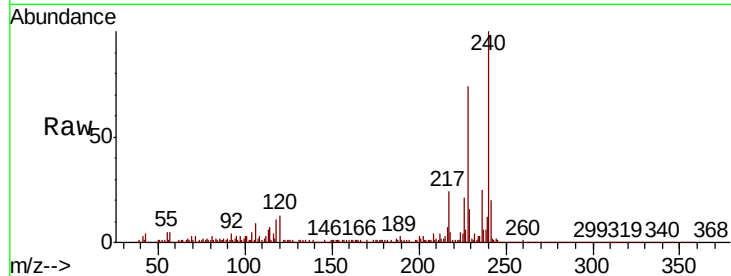
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.00 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Instrument :
BNA_F
ClientSampleId :
PAV-B40-091420-10-15

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.0	9.2	13.8
236	25.5	20.5	30.7

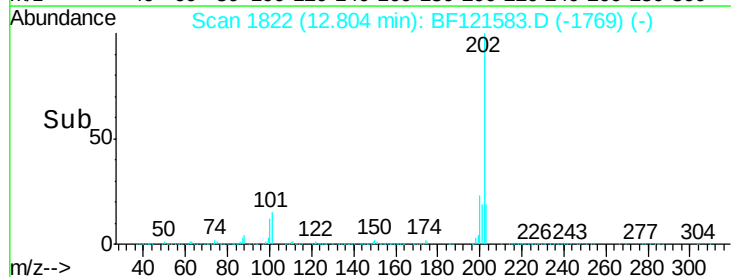
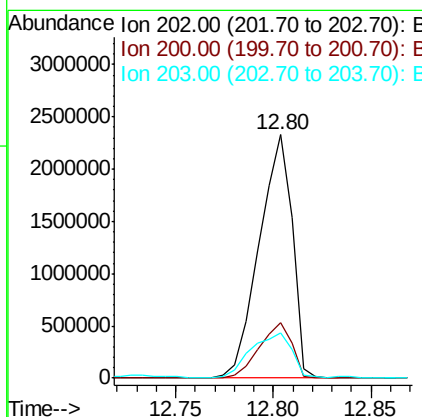
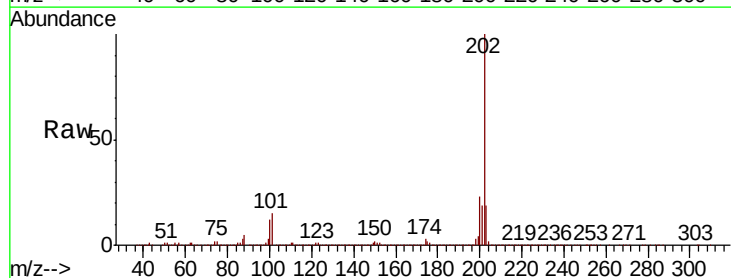
Manual Integrations
APPROVED

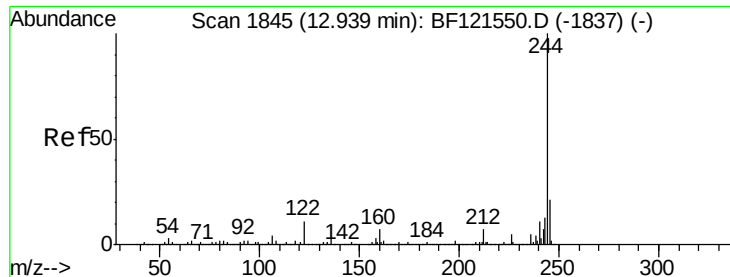
mohammad
9/16/2020 10:14:52 AM



#78
Pyrene
Concen: 82.773 ng
RT: 12.80 min Scan# 1822
Delta R.T. 0.01 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.9	17.8	26.8
203	18.8	14.6	22.0





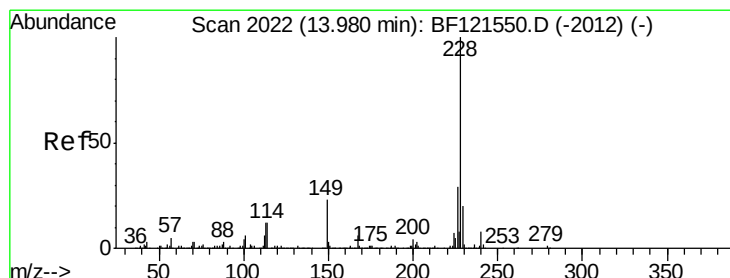
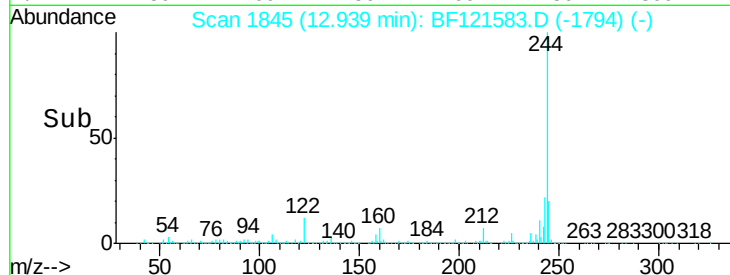
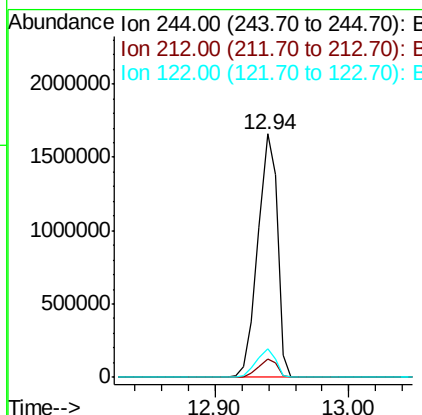
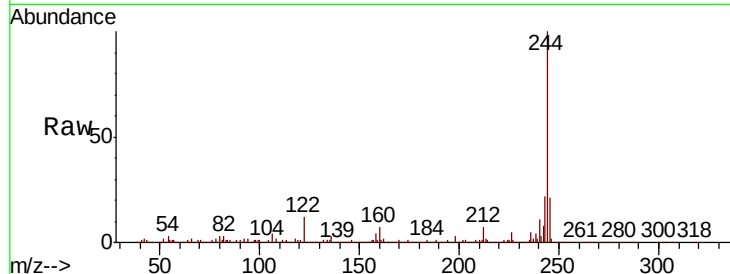
#79
 Terphenyl-d14
 Concen: 74.697 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.00 min
 Lab File: BF121583.D
 Acq: 15 Sep 2020 18:02

Instrument :
 BNA_F
 ClientSampleId :
 PAV-B40-091420-10-15

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.7	8.5
122	11.7	8.7	13.1

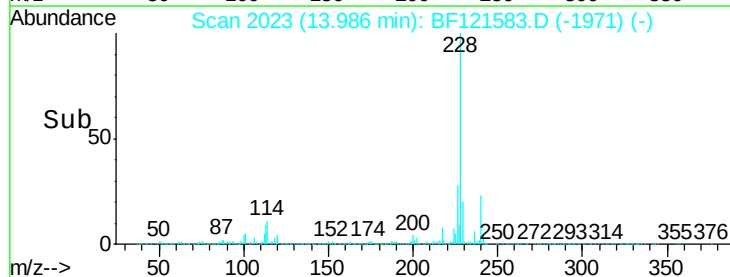
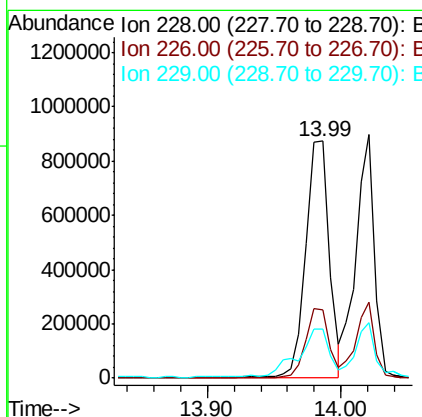
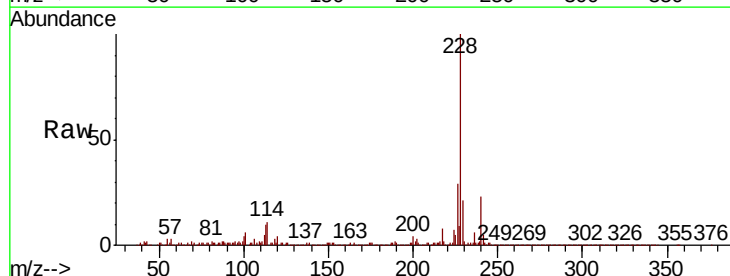
Manual Integrations
 APPROVED

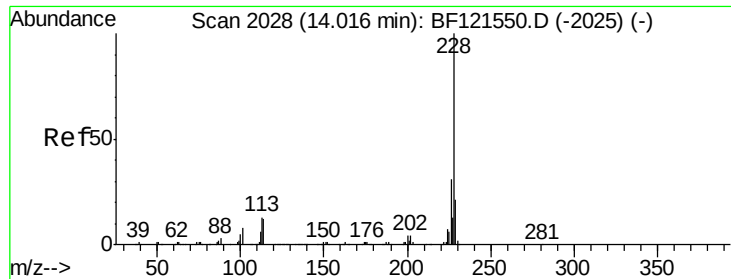
mohammad
 9/16/2020 10:14:52 AM



#81
 Benzo(a)anthracene
 Concen: 36.935 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. 0.01 min
 Lab File: BF121583.D
 Acq: 15 Sep 2020 18:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.9	34.3
229	20.8	16.3	24.5





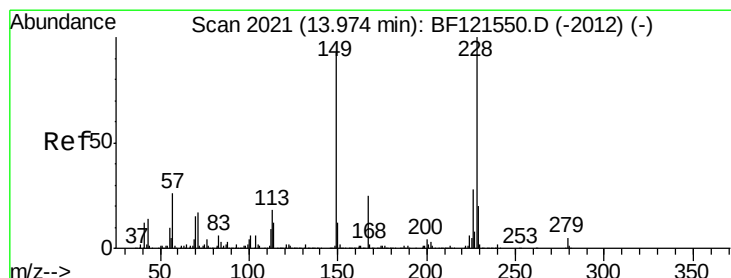
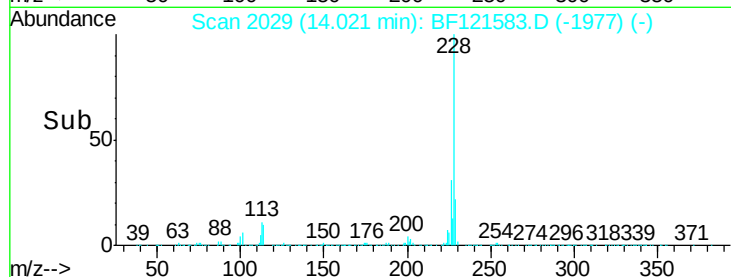
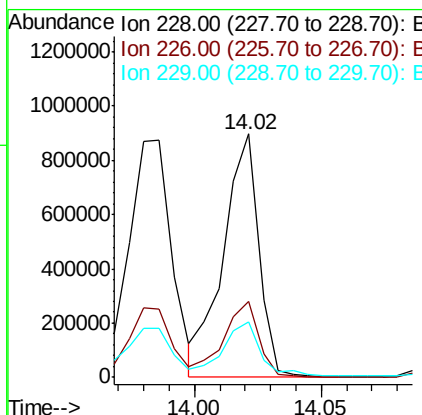
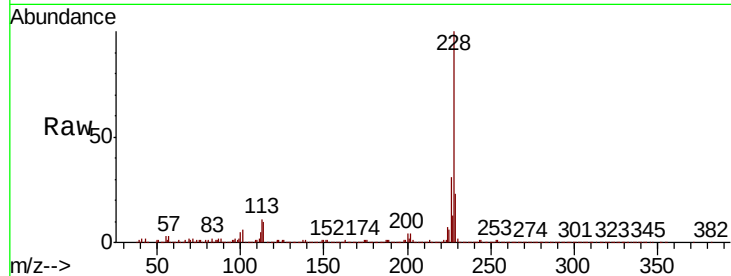
#83
 Chrysene
 Concen: 30.243 ng
 RT: 14.02 min Scan# 2029
 Delta R.T. 0.01 min
 Lab File: BF121583.D
 Acq: 15 Sep 2020 18:02

Instrument :
 BNA_F
 ClientSampleId :
 PAV-B40-091420-10-15

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.1	37.7
229	22.7	16.6	25.0

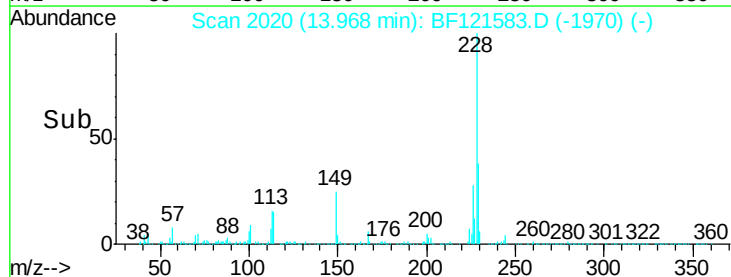
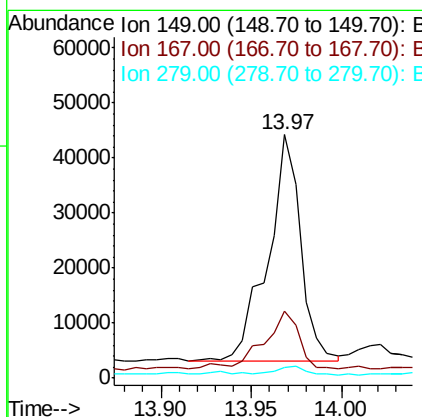
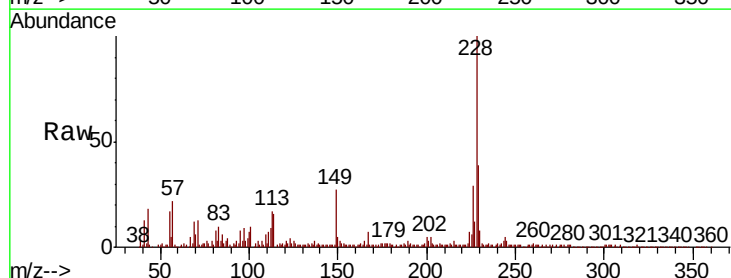
Manual Integrations
 APPROVED

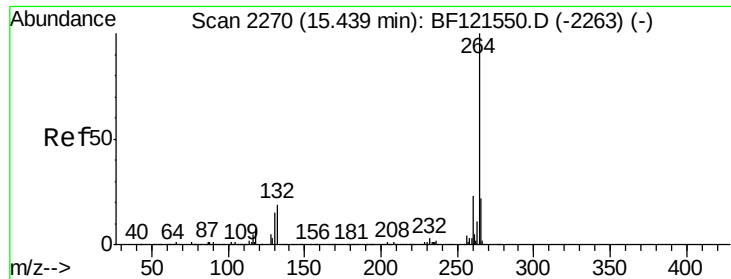
mohammad
 9/16/2020 10:14:52 AM



#84
 Bis(2-ethylhexyl)phthalate
 Concen: 2.920 ng
 RT: 13.97 min Scan# 2020
 Delta R.T. -0.01 min
 Lab File: BF121583.D
 Acq: 15 Sep 2020 18:02

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.6	32.4
279	4.4	4.1	6.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.45 min Scan# 2272

Delta R.T. 0.01 min

Lab File: BF121583.D

Acq: 15 Sep 2020 18:02

Instrument :

BNA_F

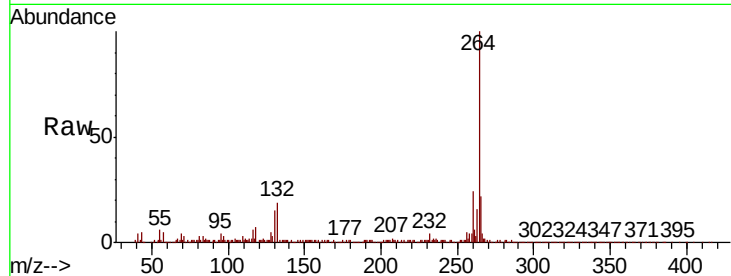
ClientSampleId :

PAV-B40-091420-10-15

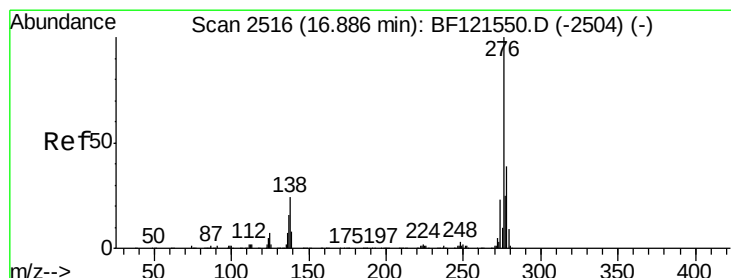
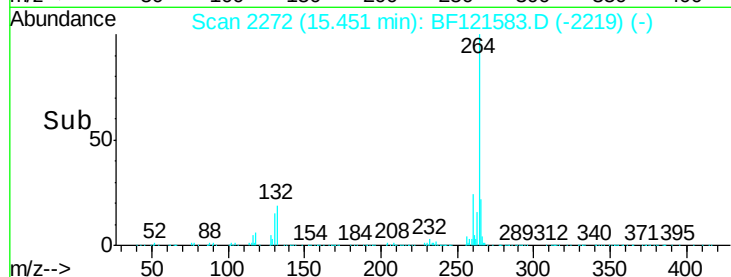
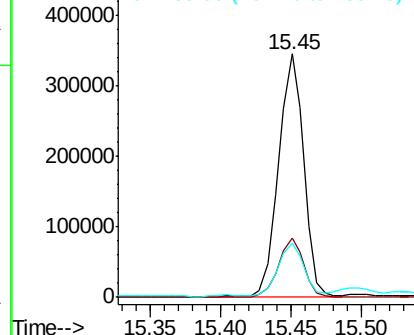
Tot Ion:	264	Resp:	429405
Ion Ratio	Lower	Upper	
264	100		
260	24.3	18.8	28.2
265	22.3	17.8	26.6

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:52 AM



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Indeno(1,2,3-cd)pyrene

Concen: 17.878 ng

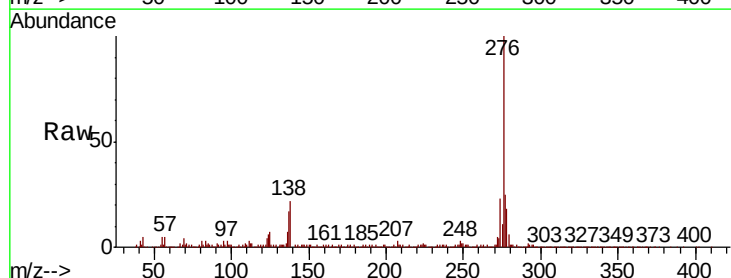
RT: 16.89 min Scan# 2517

Delta R.T. 0.01 min

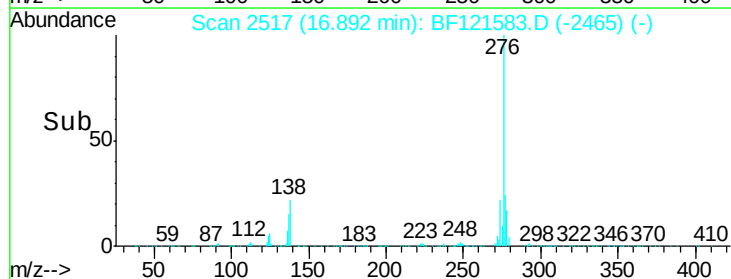
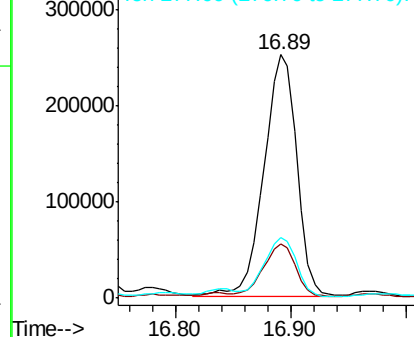
Lab File: BF121583.D

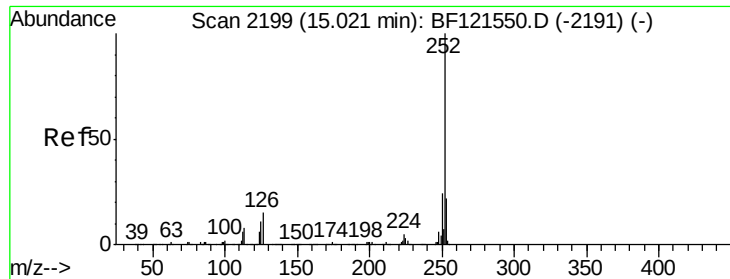
Acq: 15 Sep 2020 18:02

Tgt Ion:	276	Resp:	499943
Ion Ratio	Lower	Upper	
276	100		
138	21.2	20.6	31.0
277	24.0	20.2	30.4



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





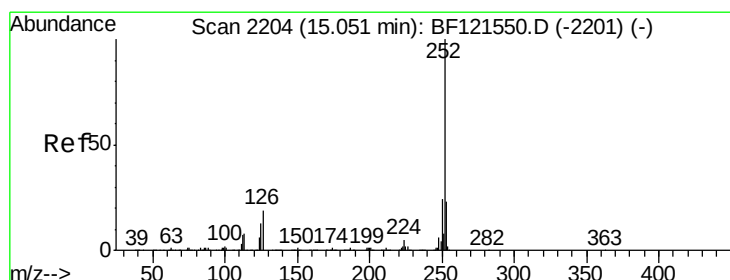
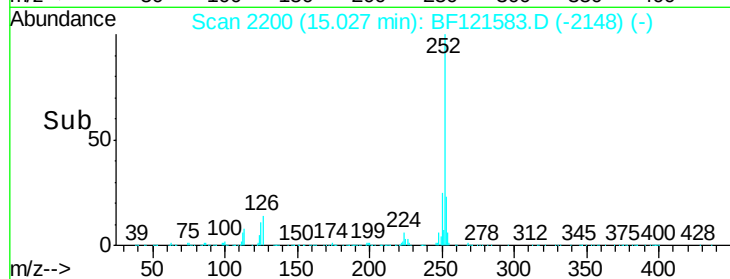
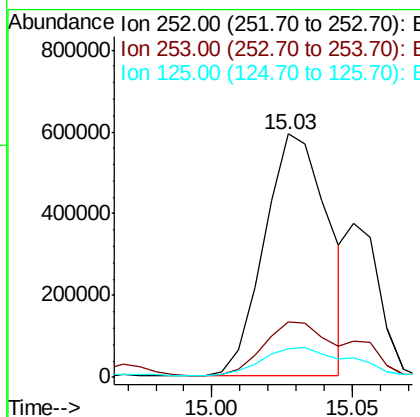
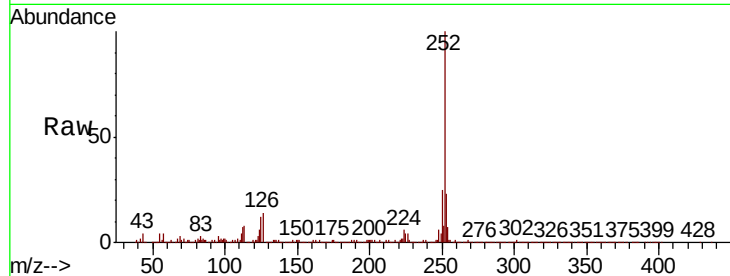
#88
Benzo(b)fluoranthene
Concen: 32.438 ng m
RT: 15.03 min Scan# 2200
Delta R.T. 0.01 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Instrument :
BNA_F
ClientSampleId :
PAV-B40-091420-10-15

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	12.0	9.2	13.8

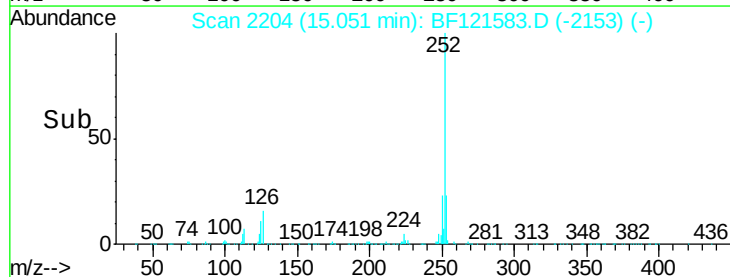
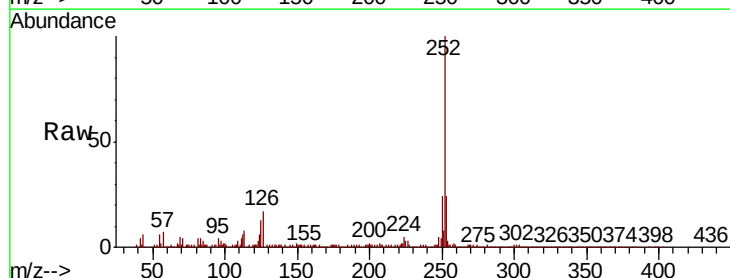
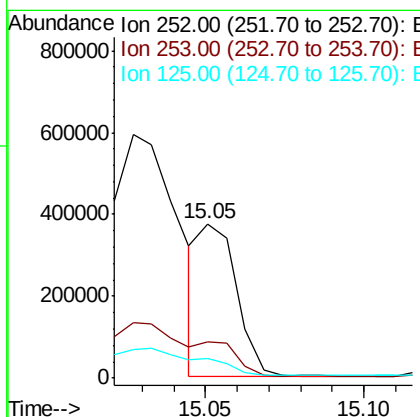
Manual Integrations
APPROVED

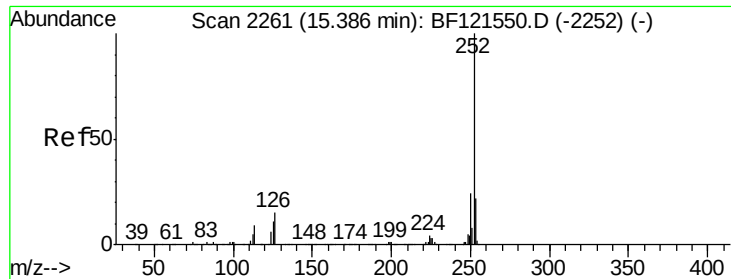
mohammad
9/16/2020 10:14:52 AM



#89
Benzo(k)fluoranthene
Concen: 11.334 ng m
RT: 15.05 min Scan# 2204
Delta R.T. -0.00 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.8
125	12.6	9.8	14.6





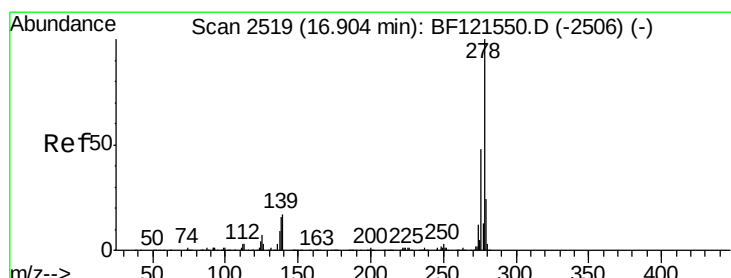
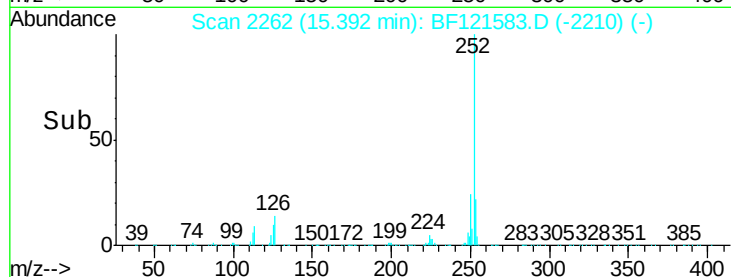
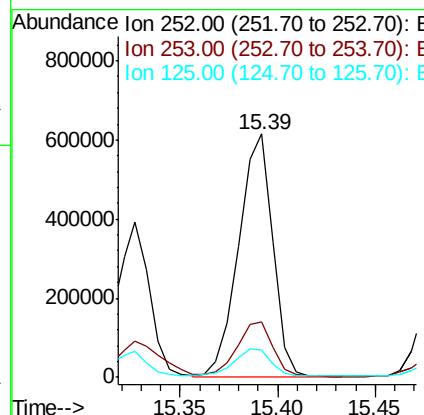
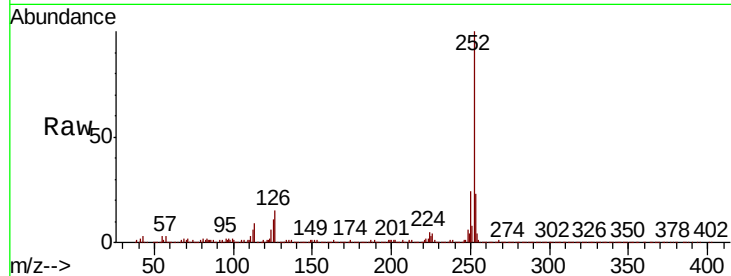
#90
Benzo(a)pyrene
Concen: 30.366 ng
RT: 15.39 min Scan# 2262
Delta R.T. 0.01 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Instrument :
BNA_F
ClientSampleId :
PAV-B40-091420-10-15

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	11.3	9.0	13.4

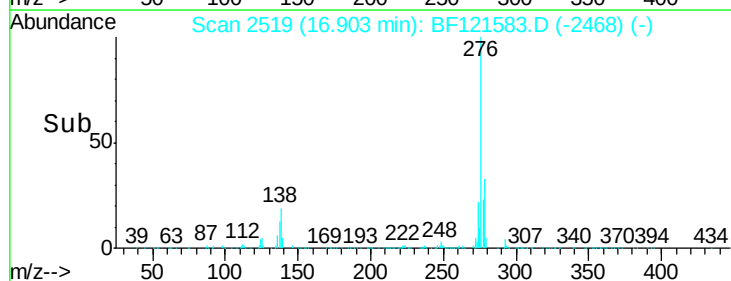
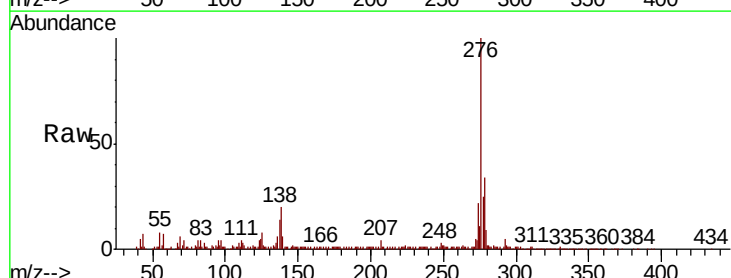
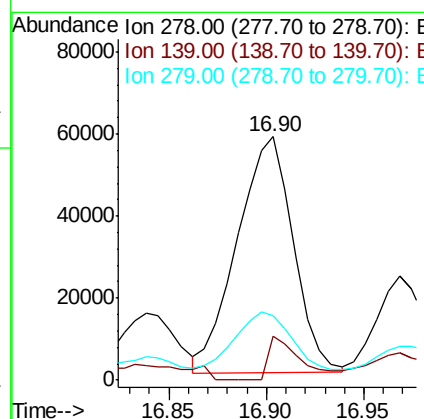
Manual Integrations
APPROVED

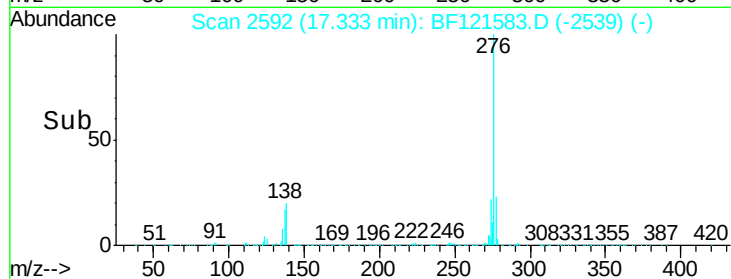
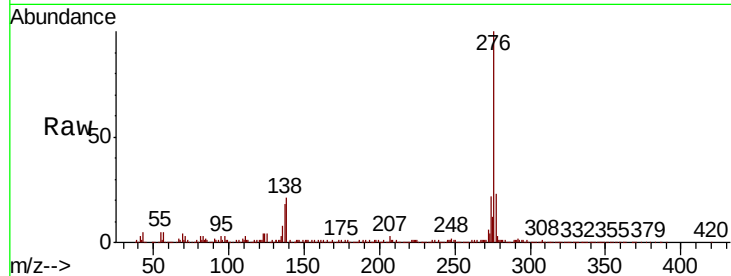
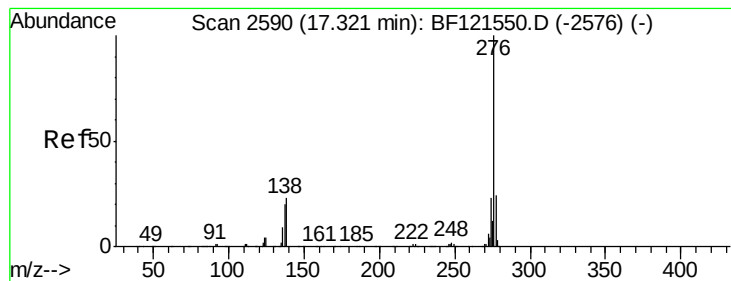
mohammad
9/16/2020 10:14:52 AM



#91
Dibenzo(a,h)anthracene
Concen: 4.903 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.00 min
Lab File: BF121583.D
Acq: 15 Sep 2020 18:02

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.2	13.9	20.9
279	26.4	19.2	28.8





#92

Benzo(a,h,i)perylene

Concen: 20.046 ng

RT: 17.33 min Scan# 2592

Delta R.T. 0.01 min

Lab File: BF121583.D

Acq: 15 Sep 2020 18:02

Tot Ion:	276	Resp:	458701
Ion Ratio	Lower	Upper	
276	100		
277	23.4	19.4	29.0
138	21.0	18.7	28.1

Instrument :

BNA_F

ClientSampleId :

PAV-B40-091420-10-15

Manual Integrations
APPROVED

mohammad
9/16/2020 10:14:52 AM

