

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
 Data File : BF116859.D
 Acq On : 6 Sep 2019 14:00
 Operator : HP/JU
 Sample : K4650-13
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-7

Manual Integrations
 APPROVED

mohammad
 9/12/2019 9:11:33 AM

Quant Time: Sep 09 12:29:21 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	79247	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	323725	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	164805	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	268564	20.00	ng	0.00
76) Chrysene-d12	14.00	240	160406	20.00	ng	0.00
87) Perylene-d12	15.47	264	176541	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	407099	83.22	ng	0.00
7) Phenol-d6	6.48	99	557266	86.76	ng	0.00
23) Nitrobenzene-d5	7.40	82	342123	60.33	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	115991	105.28	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	606564	62.09	ng	-0.01
79) Terphenyl-d14	12.95	244	554417	63.94	ng	0.00
Target Compounds						
49) Acenaphthylene	9.74	152	40073	2.676	ng	99
50) Dimethylphthalate	9.59	163	118759	10.438	ng	98
52) Acenaphthene	9.91	154	19356	2.104	ng	98
58) Fluorene	10.43	166	21223	2.148	ng	94
71) Phenanthrene	11.39	178	717115	47.968	ng	99
72) Anthracene	11.44	178	127899	8.499	ng	98
73) Carbazole	11.59	167	63385	4.422	ng	99
75) Fluoranthene	12.59	202	1591472	108.321	ng	98
78) Pyrene	12.82	202	1225795	85.966	ng	98
81) Benzo(a)anthracene	13.99	228	486838	47.955	ng	97
83) Chrysene	14.03	228	493918	47.224	ng	98
84) Bis(2-ethylhexyl)phthalate	13.97	149	19699	2.301	ng	97
86) Indeno(1,2,3-cd)pyrene	16.93	276	273594	32.567	ng	96
88) Benzo(b)fluoranthene	15.04	252	581649m	54.495	ng	
89) Benzo(k)fluoranthene	15.07	252	180956m	18.594	ng	
90) Benzo(a)pyrene	15.41	252	370824	39.934	ng	99
91) Dibenzo(a,h)anthracene	16.93	278	62958	7.746	ng	# 82
92) Benzo(g,h,i)perylene	17.37	276	245355	29.598	ng	97

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

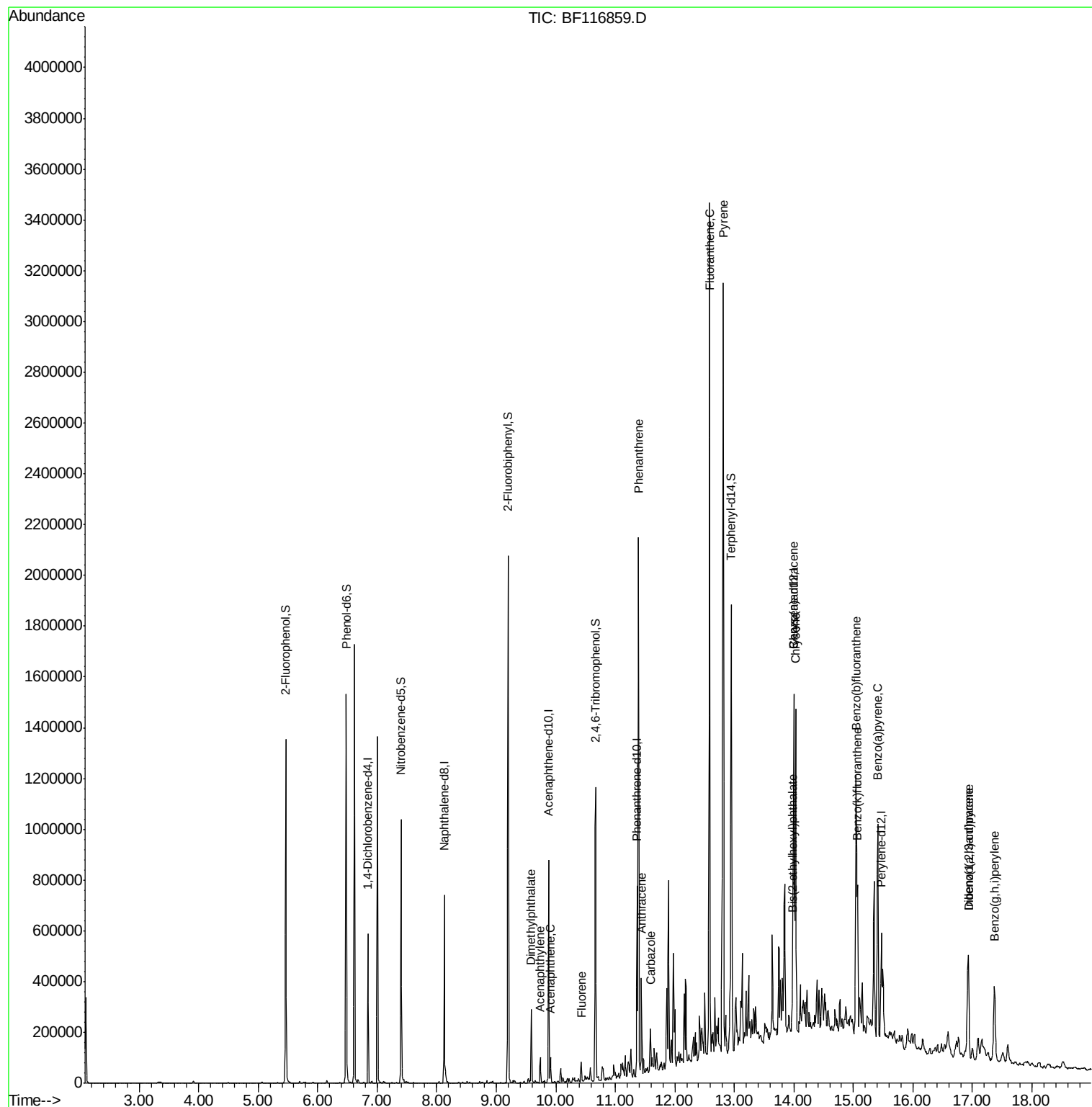
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116859.D
Acq On : 6 Sep 2019 14:00
Operator : HP/JU
Sample : K4650-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

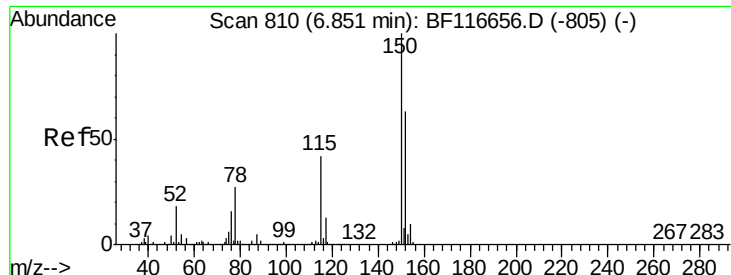
Instrument :
BNA_F
ClientSampleId :
TP-7

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 AM

Quant Time: Sep 09 12:29:21 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 30 20:02:30 2019
Response via : Initial Calibration





#1

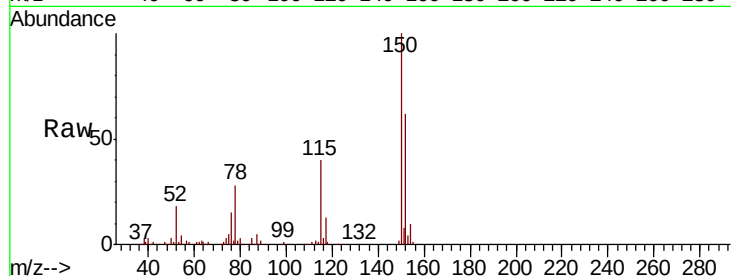
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Instrument :
BNA_F
ClientSampled :
TP-7

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.0	124.4	186.6
115	65.3	49.9	74.9

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 AM

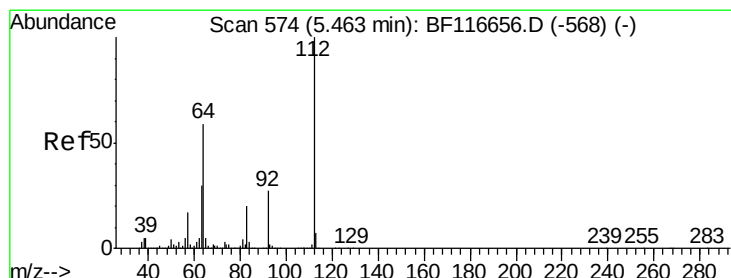
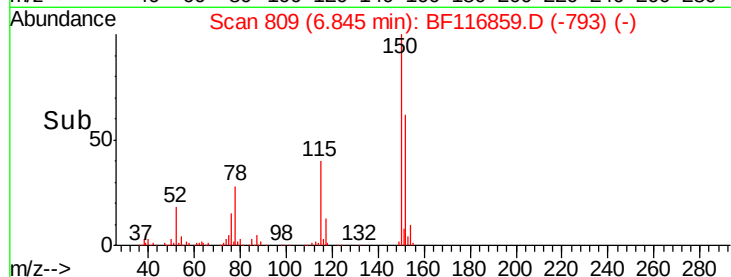
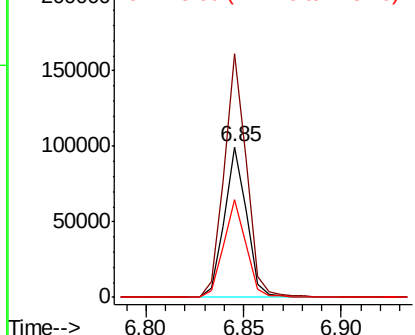


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

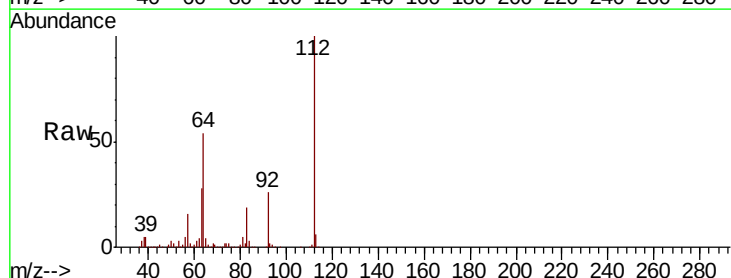
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 83.224 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.01 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.2	47.1	70.7
63	28.0	24.9	37.3

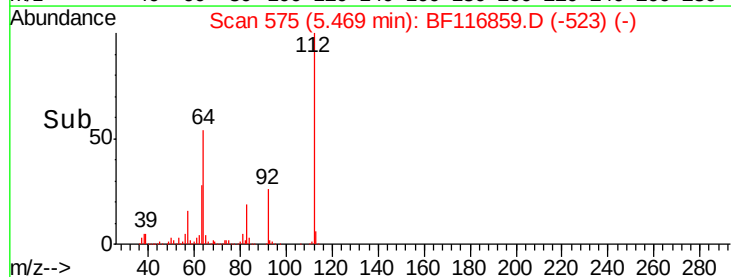
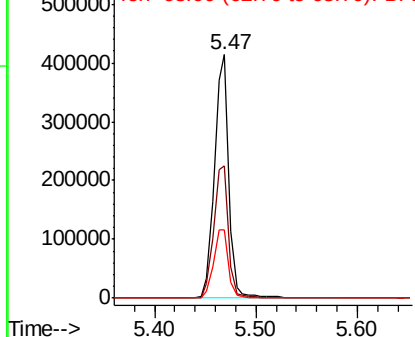


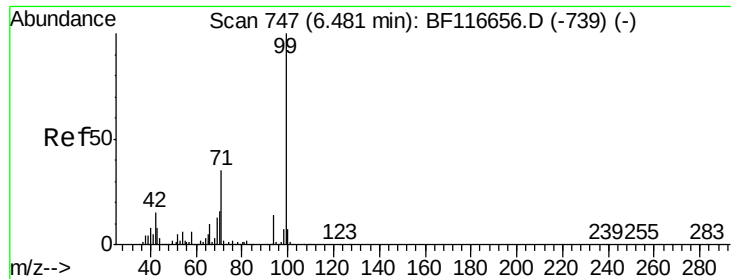
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 86.758 ng

RT: 6.48 min Scan# 747

Delta R.T. 0.00 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

Instrument :

BNA_F

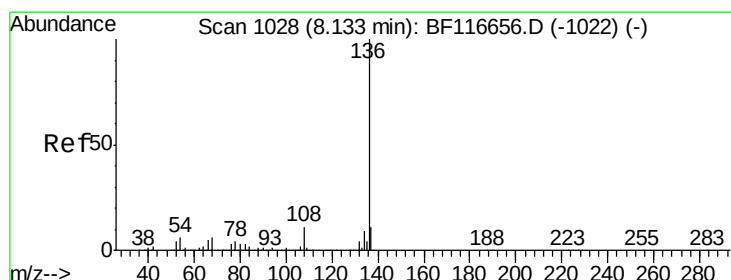
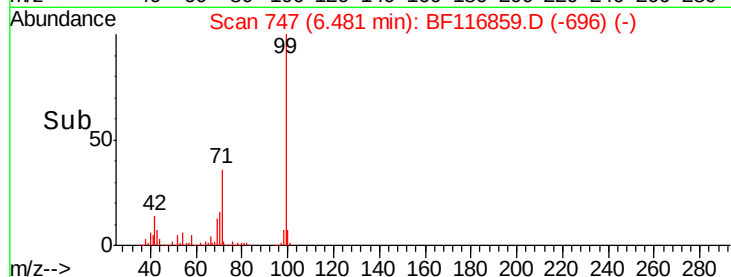
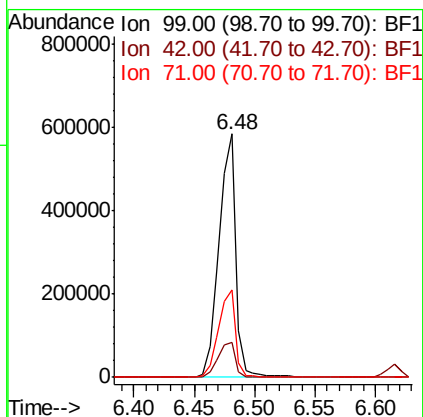
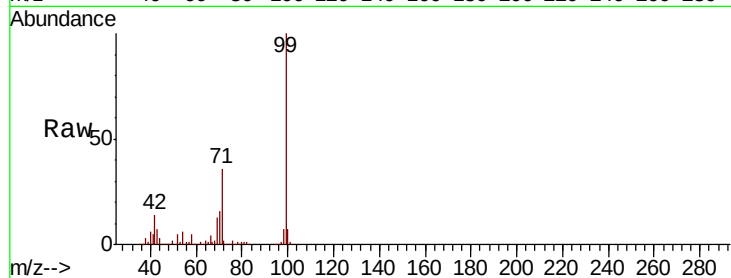
ClientSampleId :

TP-7

Tot Ion:	99	Resp:	557266
Ion Ratio	Lower	Upper	
99	100		
42	14.3	13.7	20.5
71	35.7	30.8	46.2

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 AM



#21

Naphthalene-d8

Concen: 20.000 ng

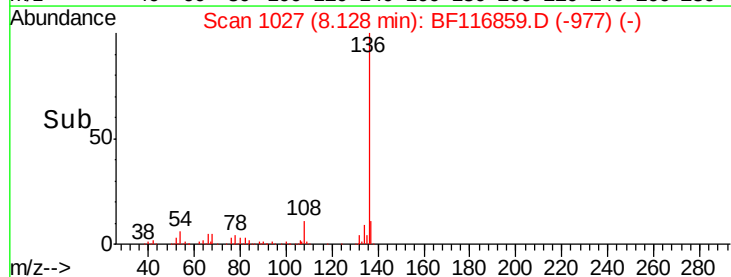
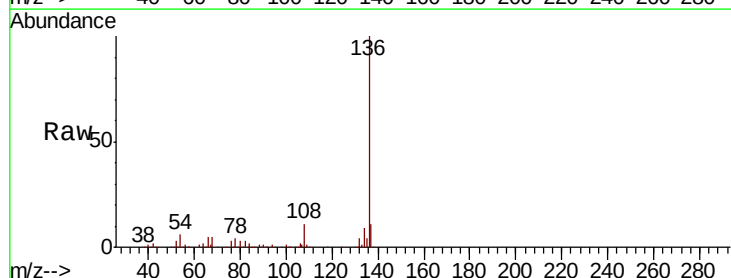
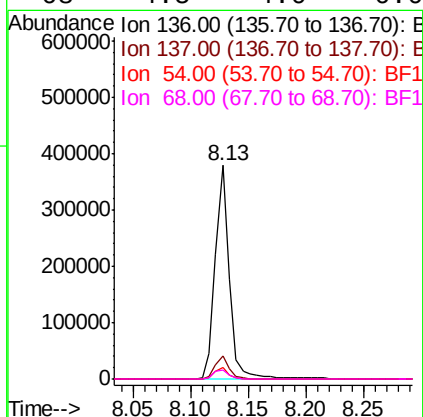
RT: 8.13 min Scan# 1027

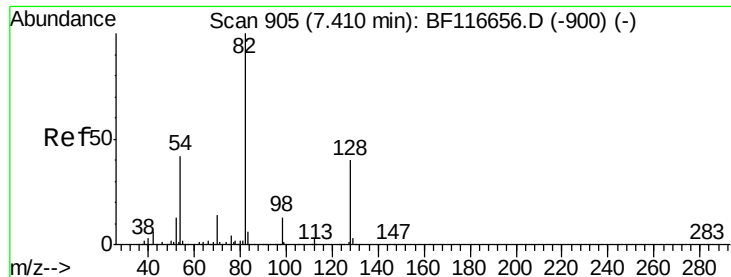
Delta R.T. -0.01 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

Tgt Ion:	136	Resp:	323725
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	5.6	4.8	7.2
68	4.5	4.0	6.0





#23

Nitrobenzene-d5

Concen: 60.332 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

Instrument :

BNA_F

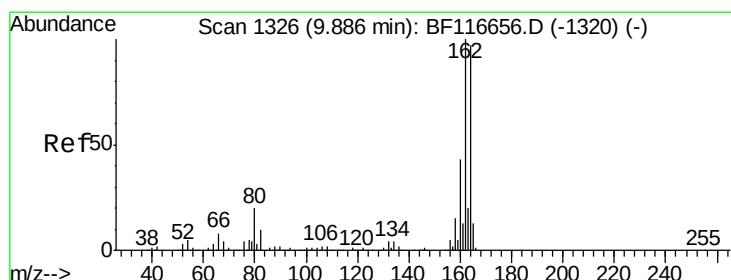
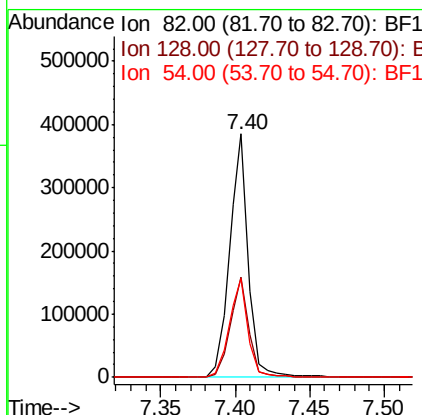
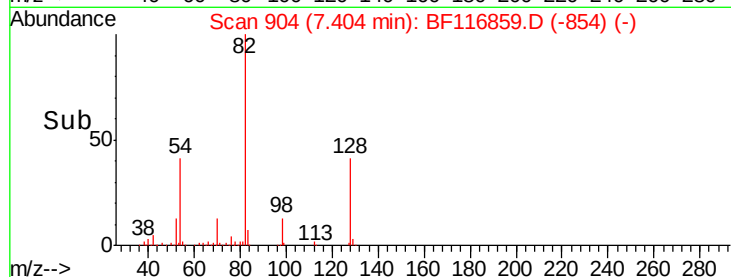
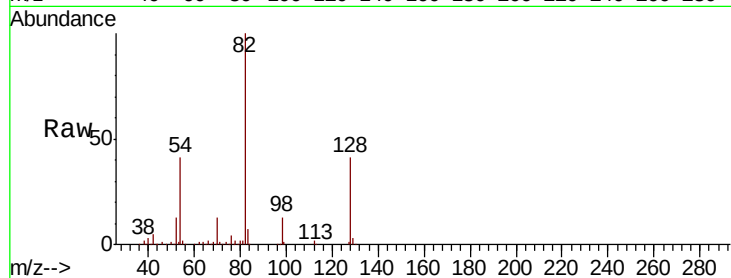
ClientSampleId :

TP-7

Tot Ion:	82	Resp:	342123
Ion Ratio	Lower	Upper	
82	100		
128	41.4	32.8	49.2
54	40.7	36.9	55.3

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 AM



#39

Acenaphthene-d10

Concen: 20.000 ng

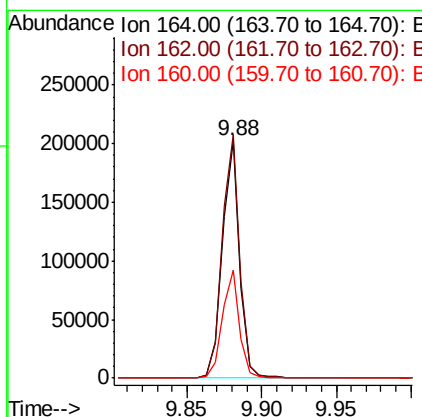
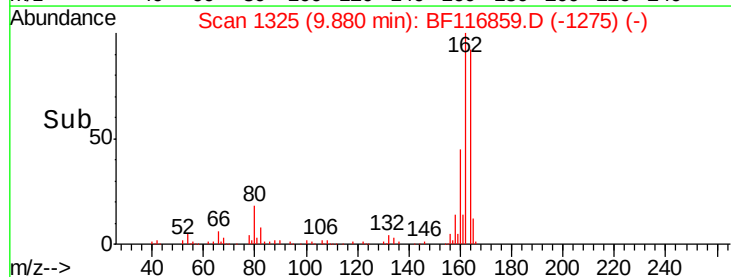
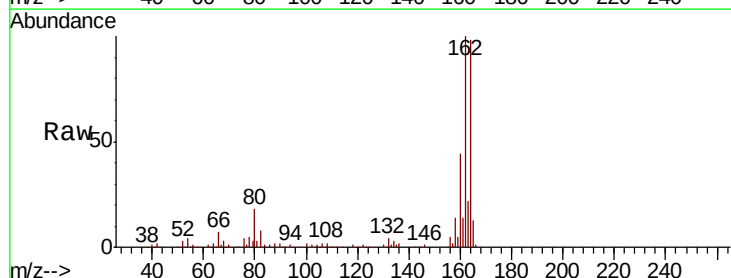
RT: 9.88 min Scan# 1325

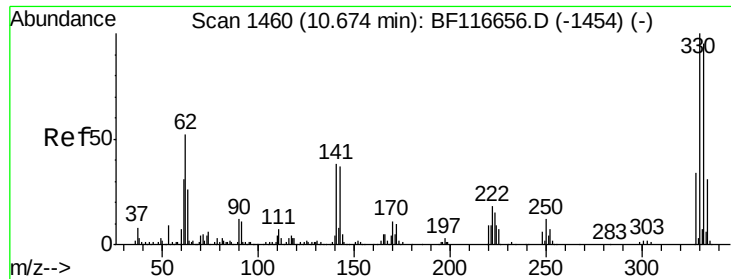
Delta R.T. -0.01 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

Tgt Ion:	164	Resp:	164805
Ion Ratio	Lower	Upper	
164	100		
162	102.6	81.4	122.0
160	45.6	35.4	53.2





#42

2,4,6-Tribromophenol

Concen: 105.278 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

Instrument :

BNA_F

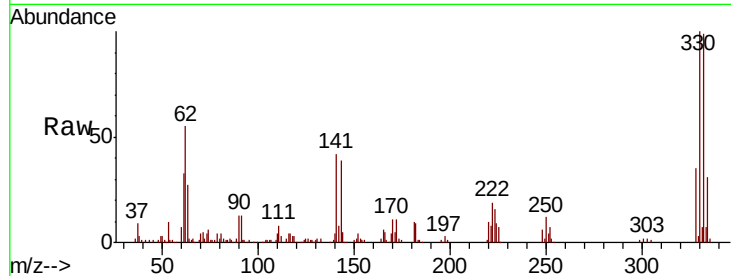
ClientSampled :

TP-7

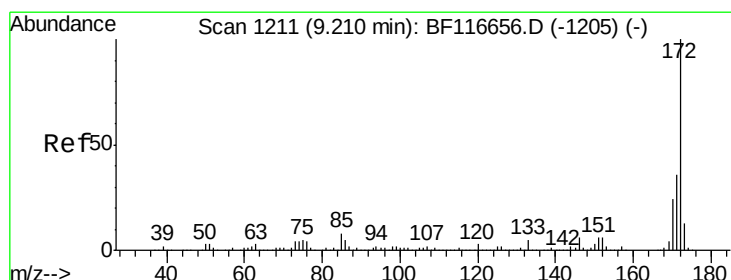
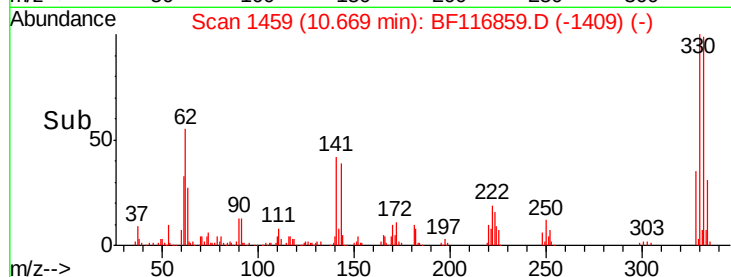
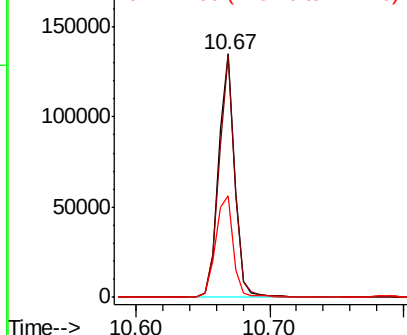
Tot Ion:	330	Resp:	115991
Ion Ratio	Lower	Upper	
330	100		
332	96.5	76.9	115.3
141	45.7	31.4	47.2

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 AM



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: 62.086 ng

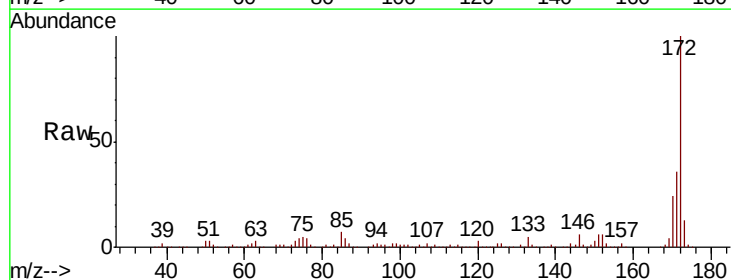
RT: 9.20 min Scan# 1209

Delta R.T. -0.01 min

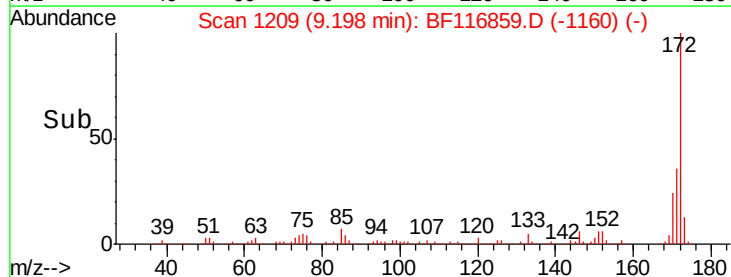
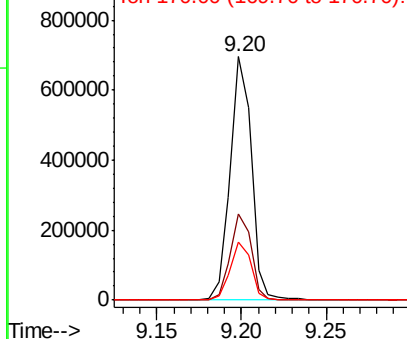
Lab File: BF116859.D

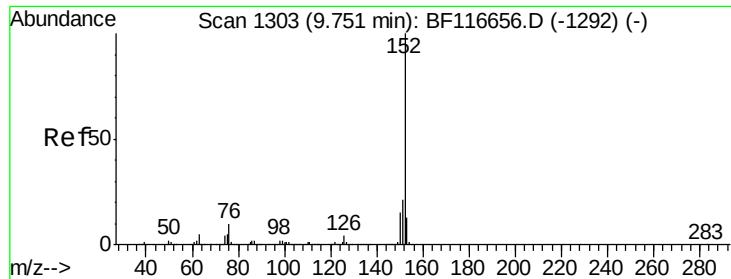
Acq: 6 Sep 2019 14:00

Tgt Ion:	172	Resp:	606564
Ion Ratio	Lower	Upper	
172	100		
171	35.6	27.8	41.6
170	23.6	18.9	28.3



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





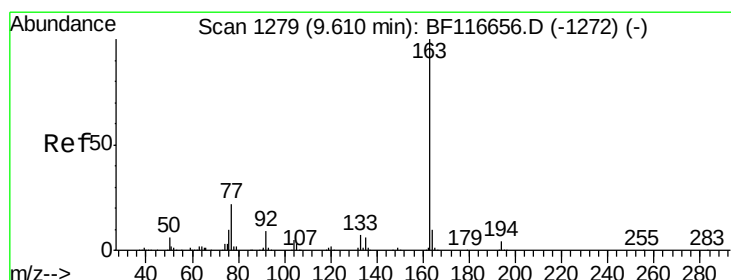
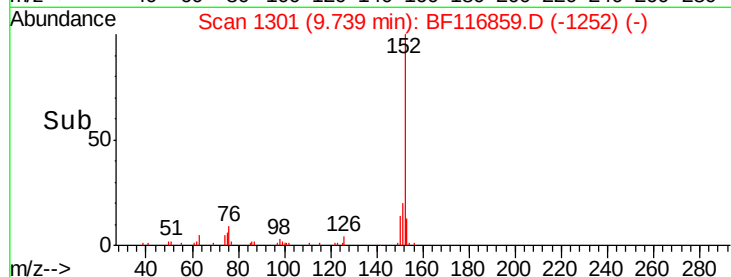
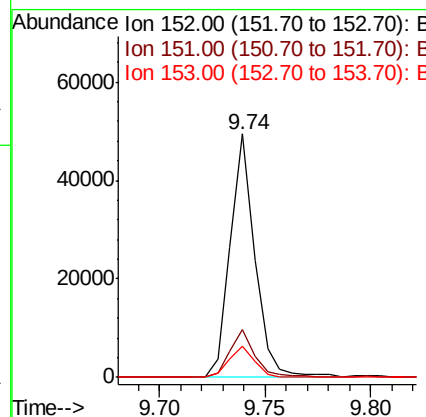
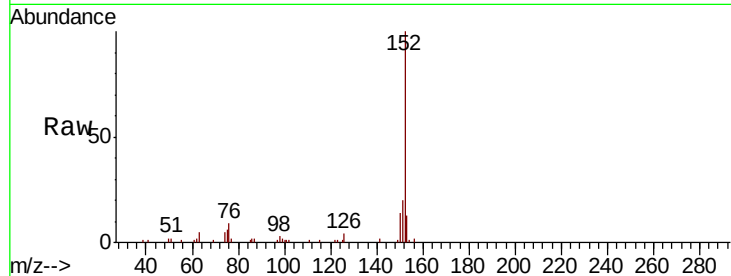
#49
Acenaphthylene
Concen: 2.676 ng
RT: 9.74 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Instrument :
BNA_F
ClientSampleId :
TP-7

Tot Ion:	152	Resp:	40073
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.9	23.9
153	13.0	10.9	16.3

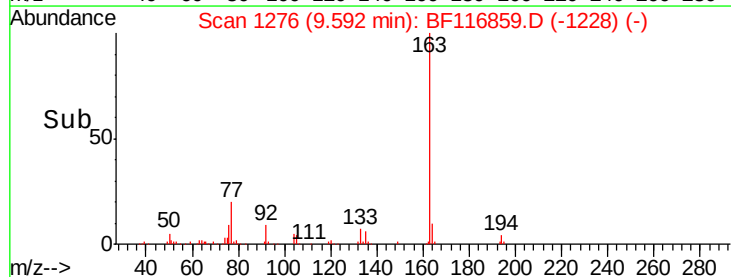
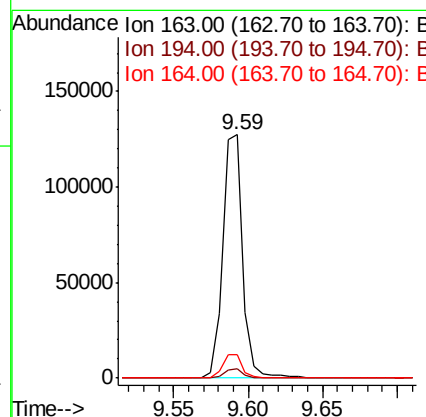
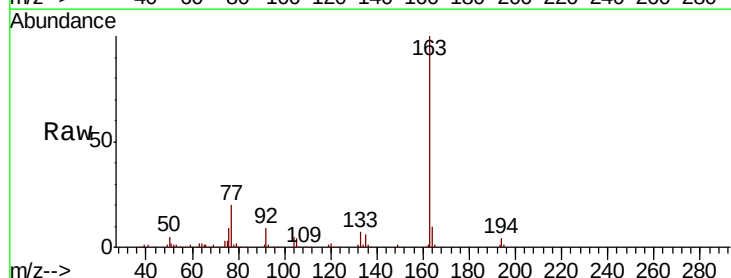
Manual Integrations
APPROVED

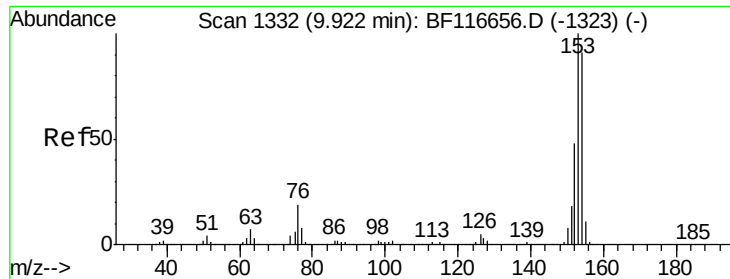
mohammad
9/12/2019 9:11:33 AM



#50
Dimethylphthalate
Concen: 10.438 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Tgt Ion:	163	Resp:	118759
Ion Ratio	Lower	Upper	
163	100		
194	4.0	2.8	4.2
164	9.7	8.6	12.8





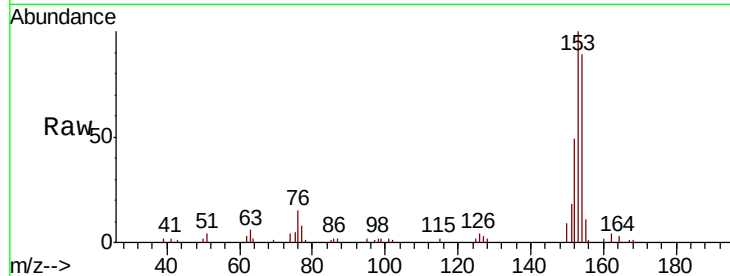
#52
Acenaphthene
Concen: 2.104 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Instrument :
BNA_F
ClientSampleId :
TP-7

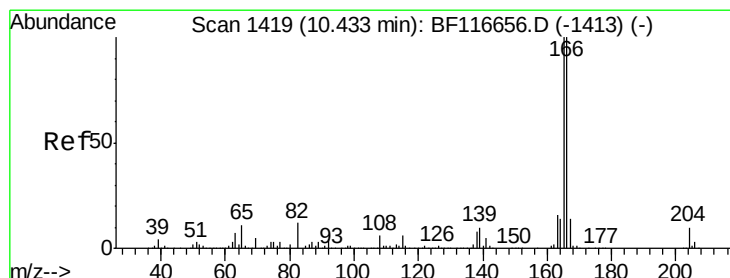
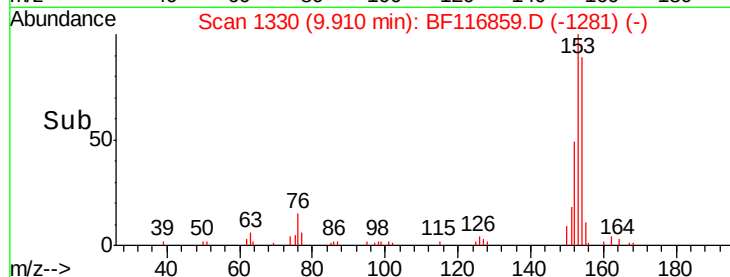
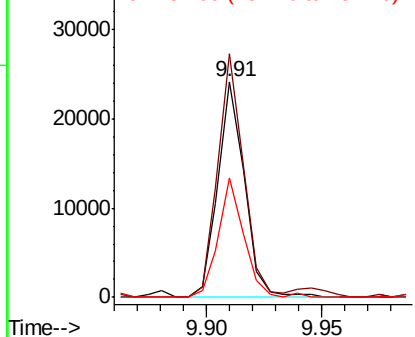
Tot Ion	Ratio	Lower	Upper
154	100		
153	113.0	89.5	134.3
152	55.3	41.9	62.9

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 AM

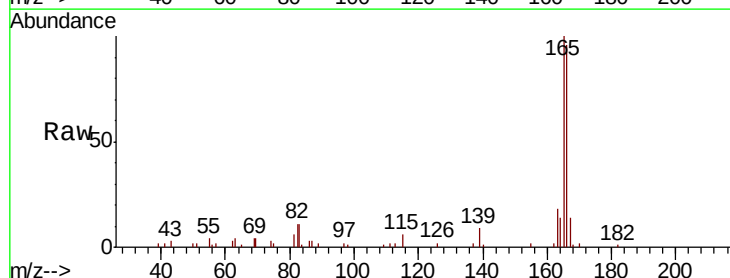


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

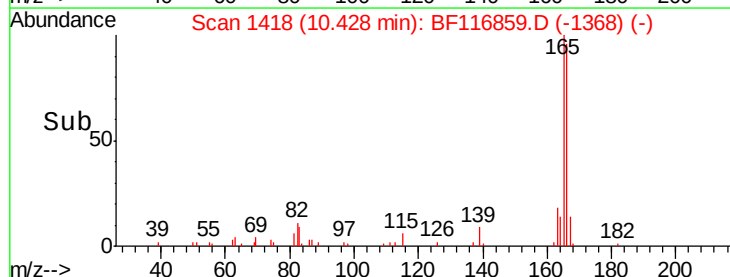
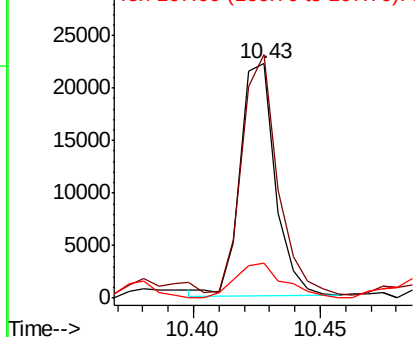


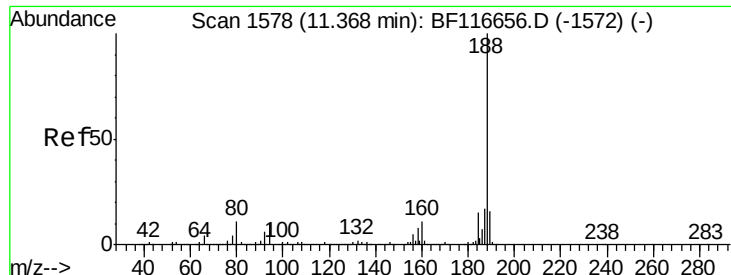
#58
Fluorene
Concen: 2.148 ng
RT: 10.43 min Scan# 1418
Delta R.T. -0.01 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.9	78.8	118.2
167	14.8	10.0	15.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





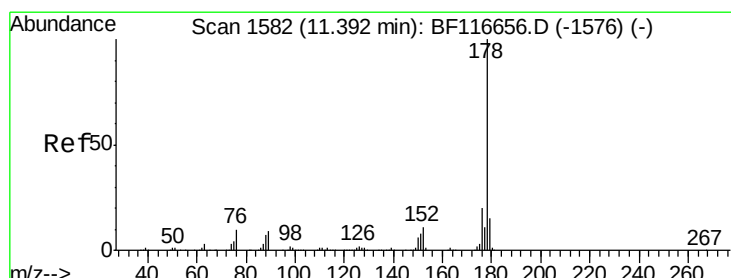
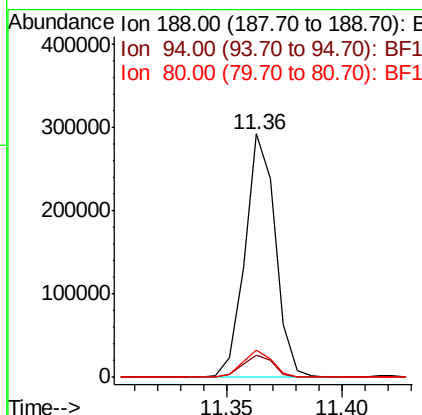
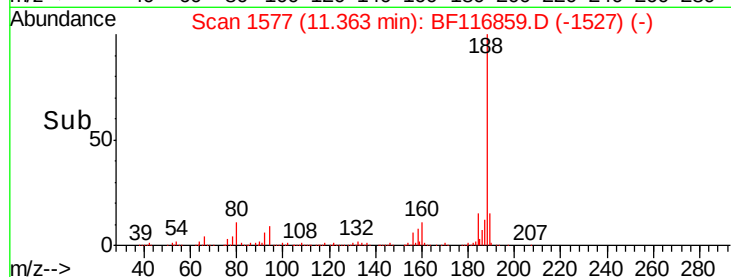
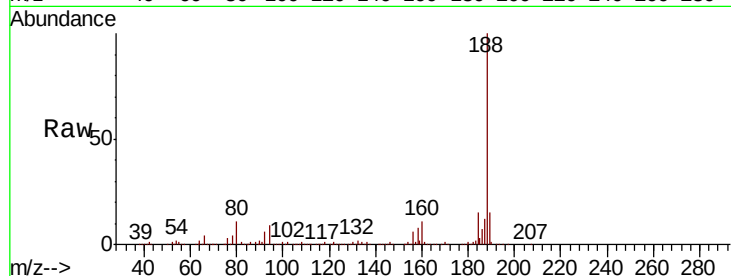
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF116859.D
 Acq: 6 Sep 2019 14:00

Instrument :
 BNA_F
 ClientSampleId :
 TP-7

Tot Ion:	188	Resp:	268564
Ion Ratio	Lower	Upper	
188	100		
94	9.2	7.3	10.9
80	11.3	8.4	12.6

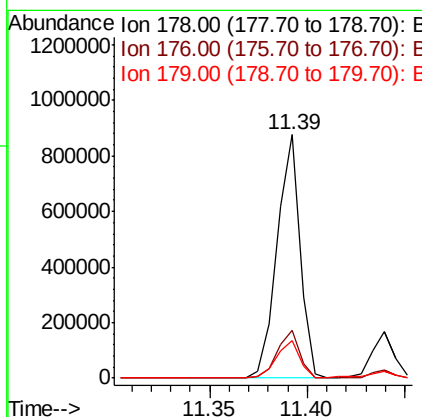
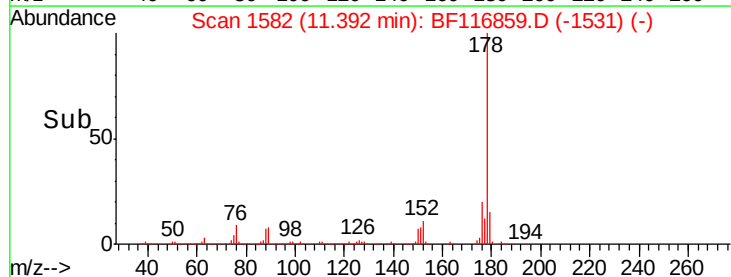
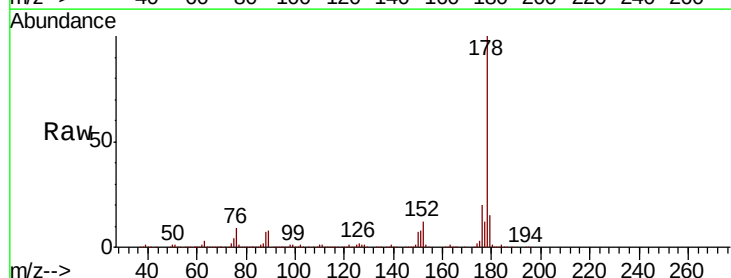
Manual Integrations
 APPROVED

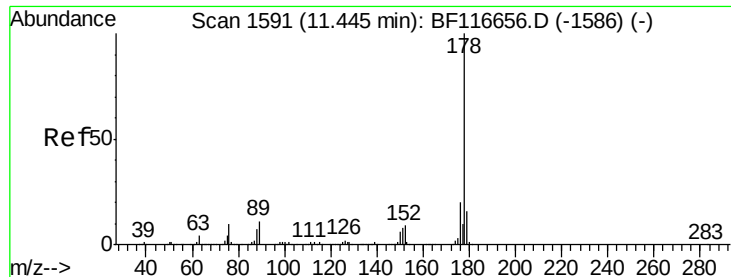
mohammad
 9/12/2019 9:11:33 AM



#71
 Phenanthrene
 Concen: 47.968 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: BF116859.D
 Acq: 6 Sep 2019 14:00

Tgt Ion:	178	Resp:	717115
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.4	23.0
179	15.2	12.2	18.2





#72

Anthracene

Concen: 8.499 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.00 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

Instrument :

BNA_F

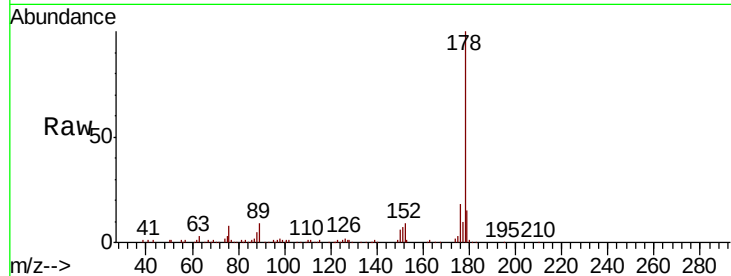
ClientSampleId :

TP-7

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.0
179	14.9	12.5	18.7

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 AM

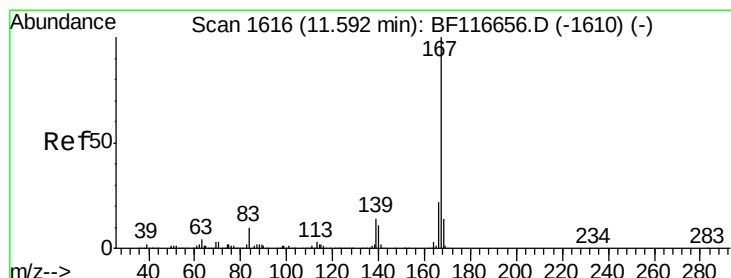
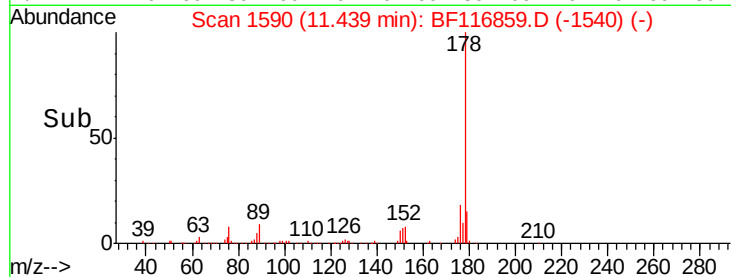
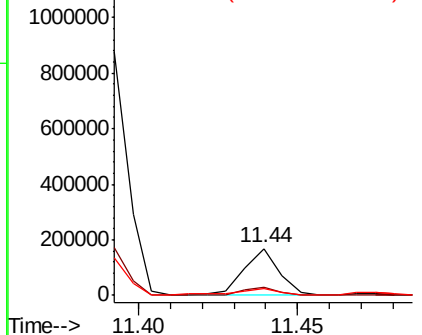


Abundance

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



#73

Carbazole

Concen: 4.422 ng

RT: 11.59 min Scan# 1616

Delta R.T. 0.00 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

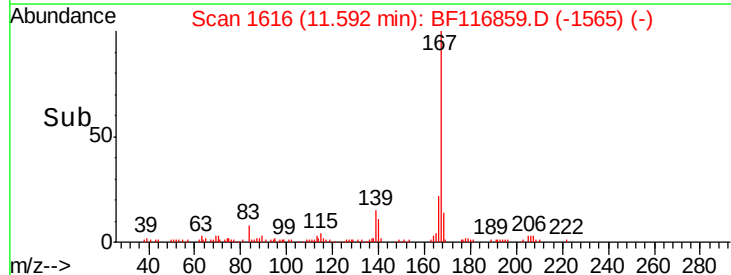
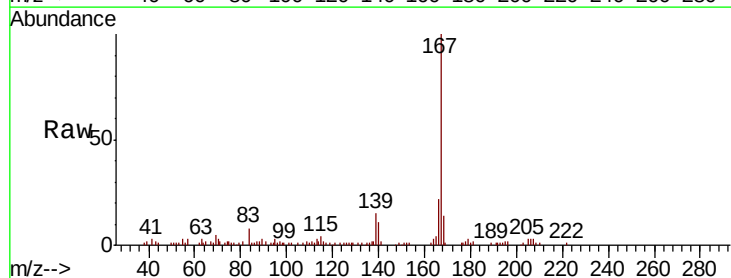
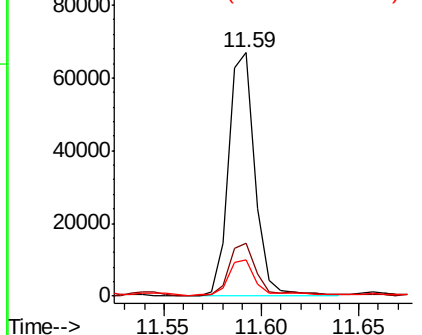
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.8	26.6
139	14.7	11.1	16.7

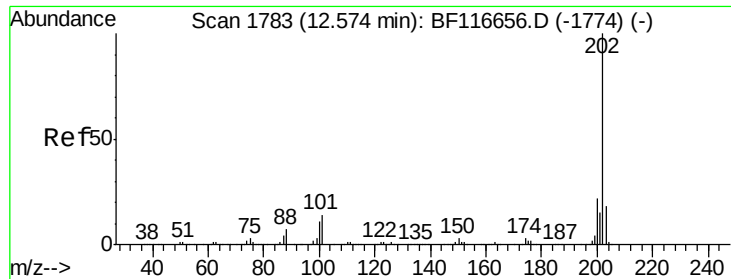
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 108.321 ng

RT: 12.59 min Scan# 1785

Delta R.T. 0.01 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

Instrument :

BNA_F

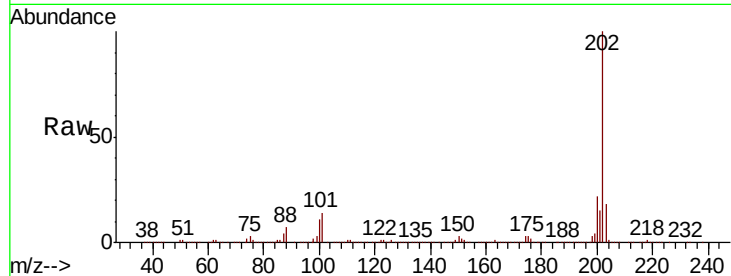
ClientSampled :

TP-7

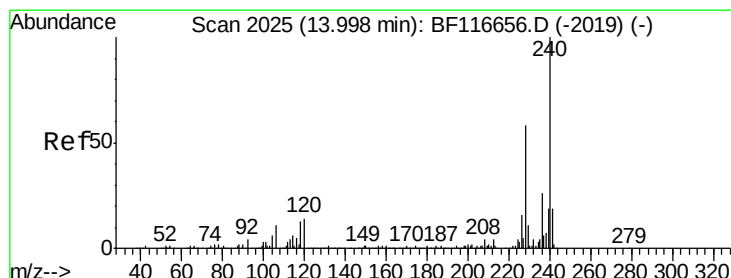
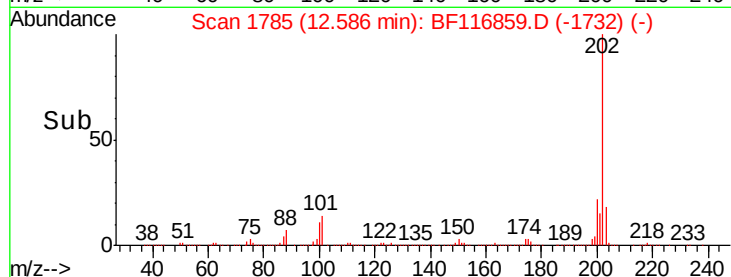
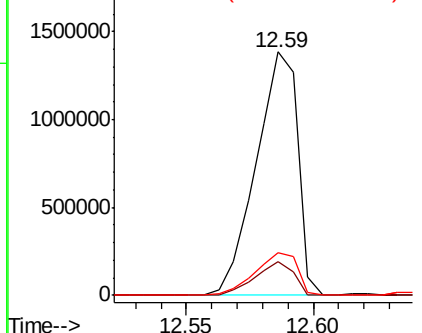
Tot Ion:	202	Resp:	1591472
Ion Ratio	Lower	Upper	
202	100		
101	13.7	0.0	31.3
203	17.6	0.0	37.6

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 AM



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



#76

Chrysene-d12

Concen: 20.000 ng

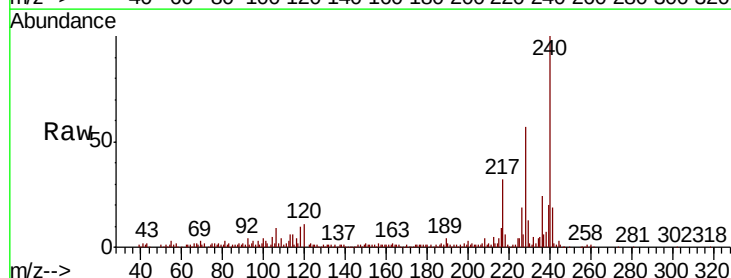
RT: 14.00 min Scan# 2026

Delta R.T. 0.01 min

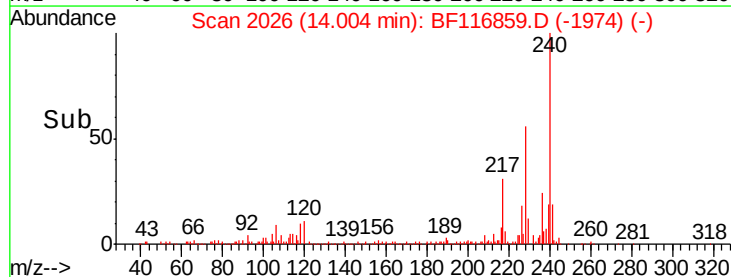
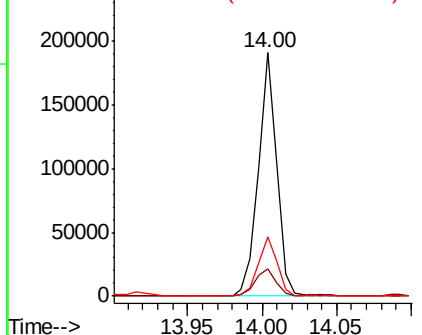
Lab File: BF116859.D

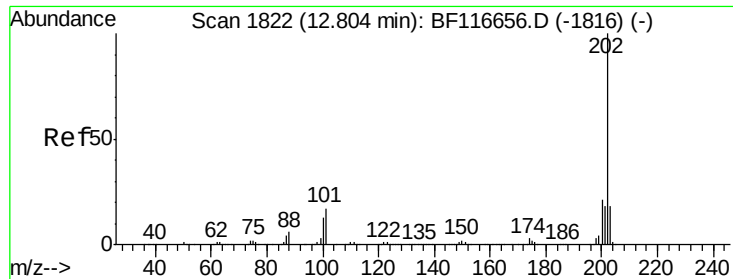
Acq: 6 Sep 2019 14:00

Tgt Ion:	240	Resp:	160406
Ion Ratio	Lower	Upper	
240	100		
120	11.3	9.1	13.7
236	24.4	21.1	31.7



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





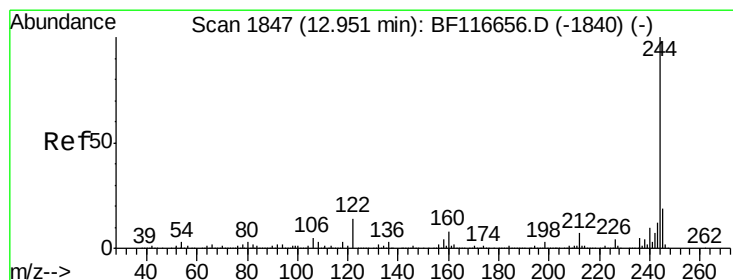
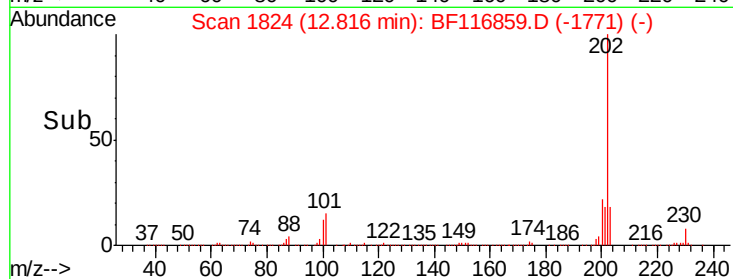
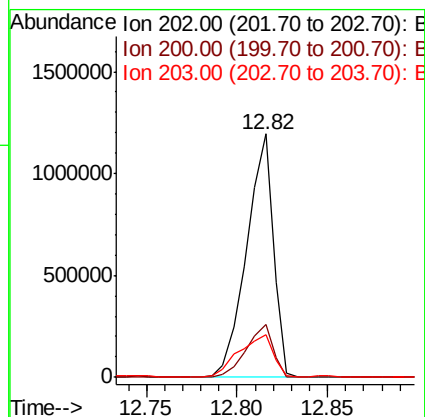
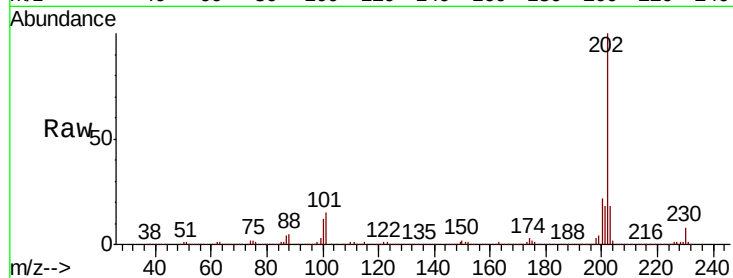
#78
Pvrene
Concen: 85.966 ng
RT: 12.82 min Scan# 1824
Delta R.T. 0.01 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Instrument :
BNA_F
ClientSampleId :
TP-7

Tot Ion:202 Resp: 1225795
Ion Ratio Lower Upper
202 100
200 21.9 16.5 24.7
203 17.7 13.7 20.5

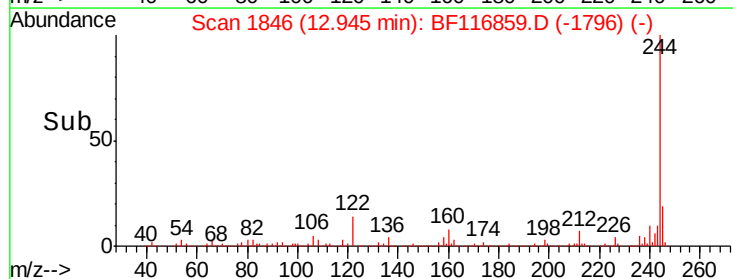
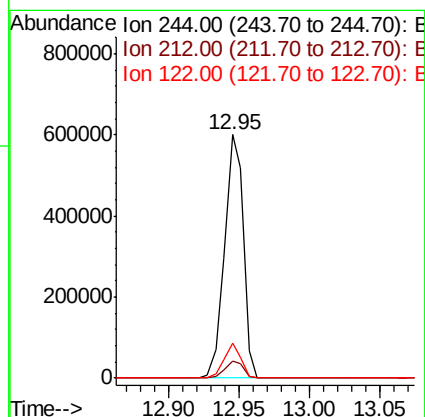
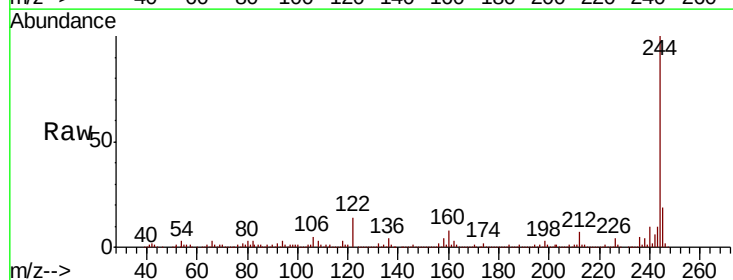
Manual Integrations
APPROVED

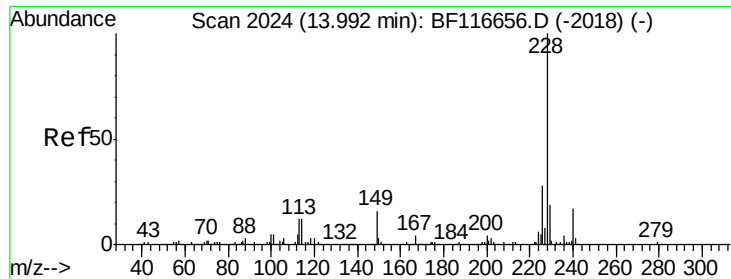
mohammad
9/12/2019 9:11:33 AM



#79
Terphenyl-d14
Concen: 63.940 ng
RT: 12.95 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Tgt Ion:244 Resp: 554417
Ion Ratio Lower Upper
244 100
212 7.2 6.1 9.1
122 14.1 10.2 15.4





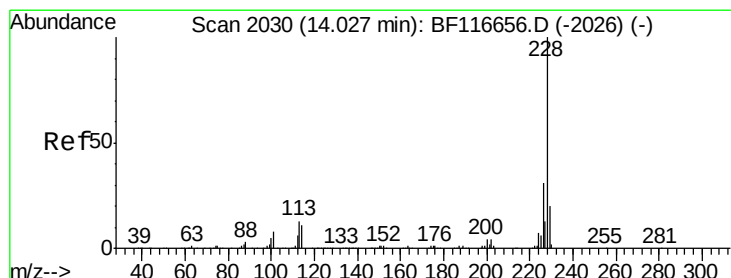
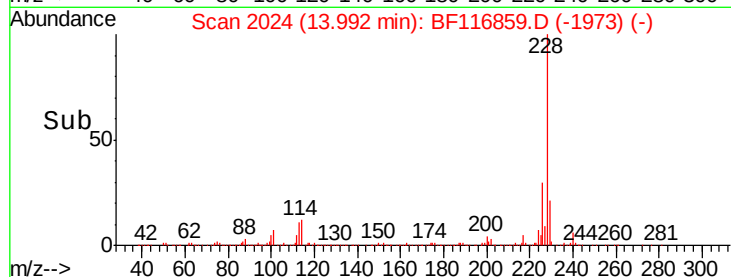
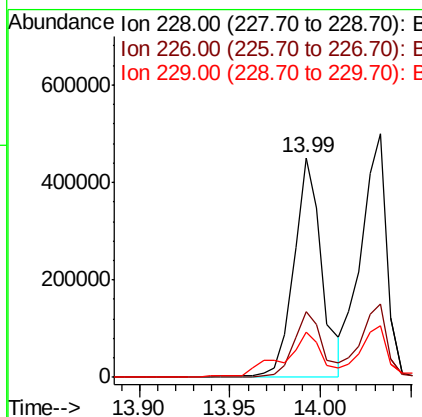
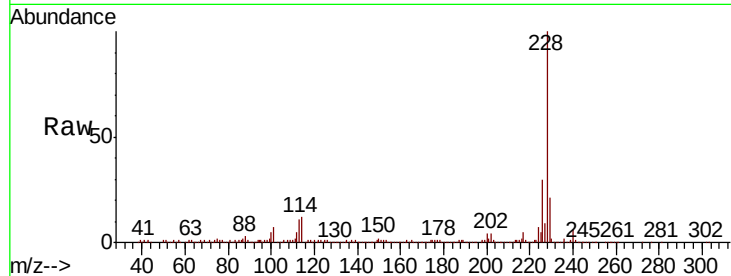
#81
Benzo(a)anthracene
Concen: 47.955 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.00 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Instrument :
BNA_F
ClientSampled :
TP-7

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.0	33.0
229	20.9	16.4	24.6

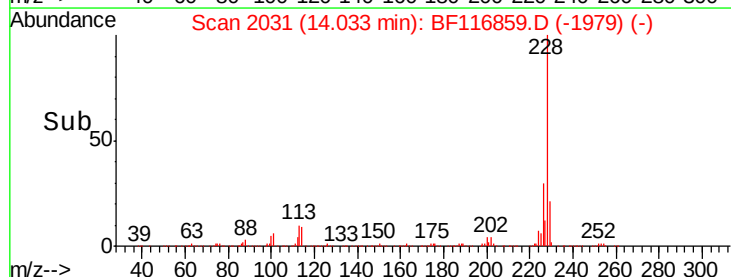
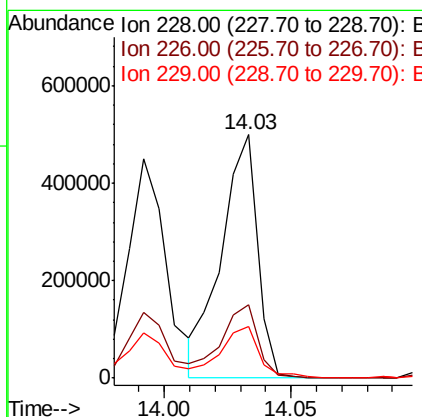
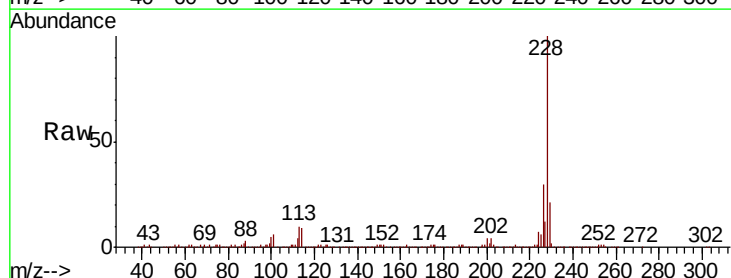
Manual Integrations
APPROVED

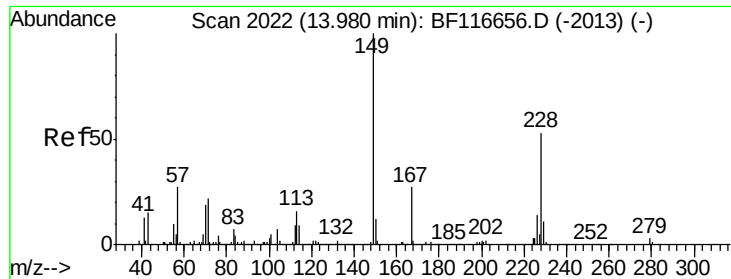
mohammad
9/12/2019 9:11:33 AM



#83
Chrysene
Concen: 47.224 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.01 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.0	36.0
229	21.4	15.4	23.0





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.301 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

Instrument :

BNA_F

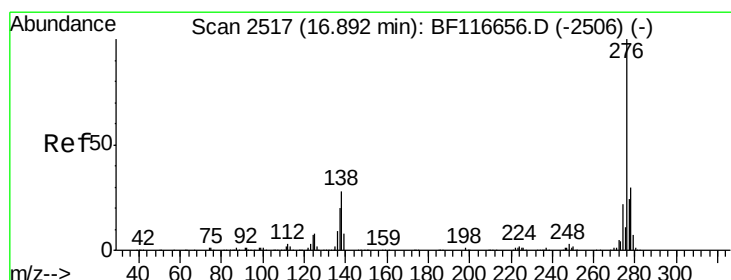
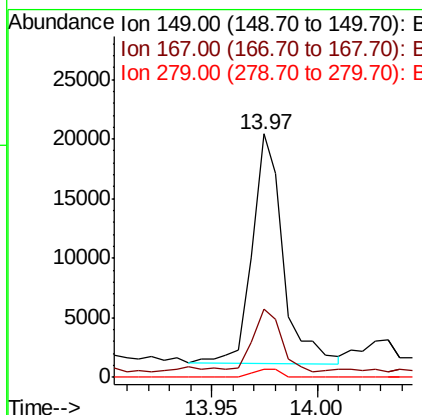
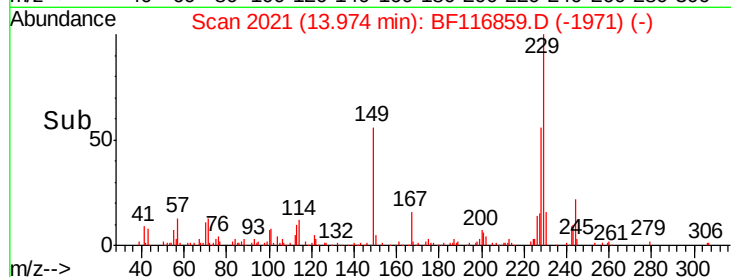
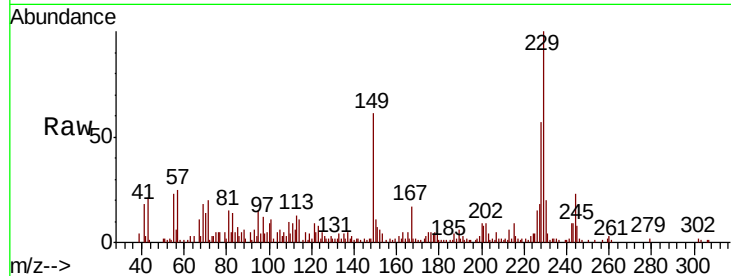
ClientSampled :

TP-7

Tot Ion:	149	Resp:	19699
Ion Ratio	Lower	Upper	
149	100		
167	28.1	21.0	31.4
279	3.5	2.8	4.2

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 AM



#86

Indeno(1,2,3-cd)pyrene

Concen: 32.567 ng

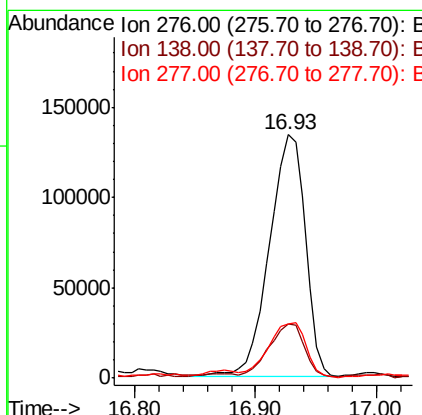
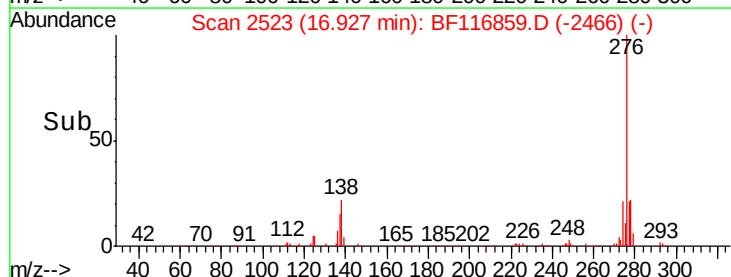
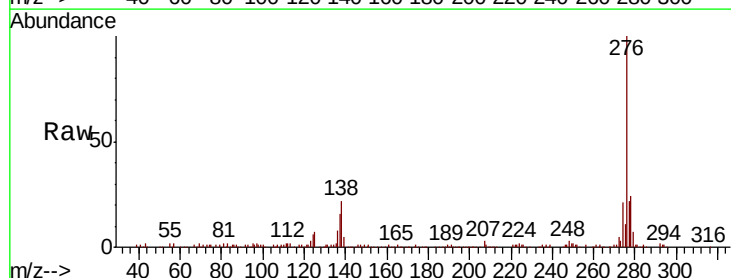
RT: 16.93 min Scan# 2523

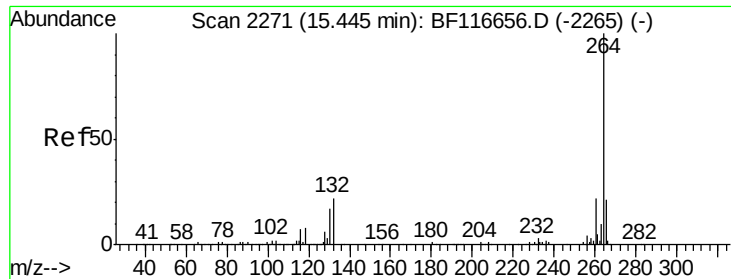
Delta R.T. 0.04 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

Tgt Ion:	276	Resp:	273594
Ion Ratio	Lower	Upper	
276	100		
138	22.7	19.4	29.2
277	23.7	20.5	30.7





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2275

Delta R.T. 0.02 min

Lab File: BF116859.D

Acq: 6 Sep 2019 14:00

Instrument :

BNA_F

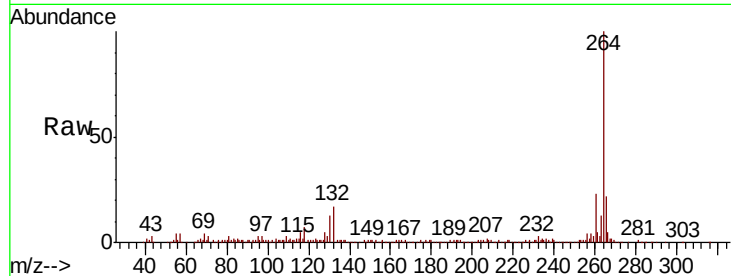
ClientSampleId :

TP-7

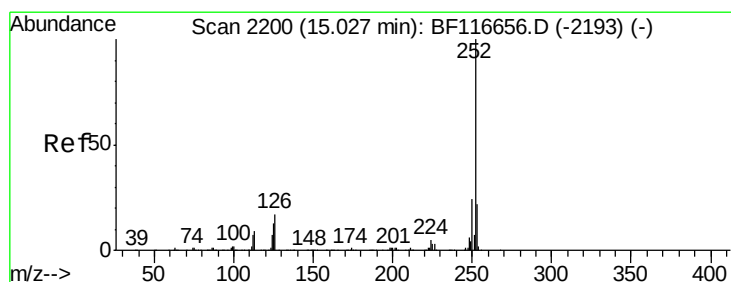
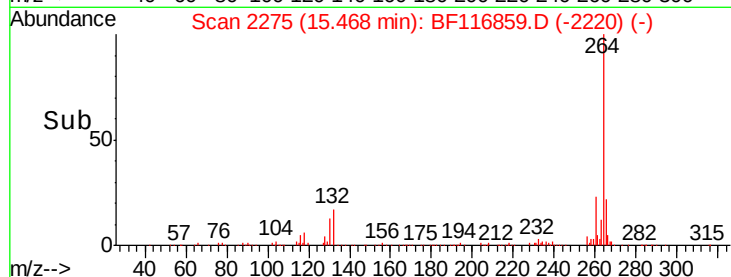
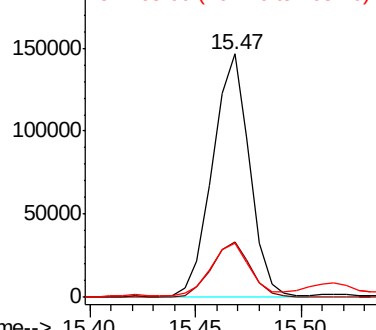
Tot Ion:	264	Resp:	176541
Ion Ratio	Lower	Upper	
264	100		
260	22.8	18.3	27.5
265	22.5	16.5	24.7

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 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



#88

Benzo(b)fluoranthene

Concen: 54.495 ng m

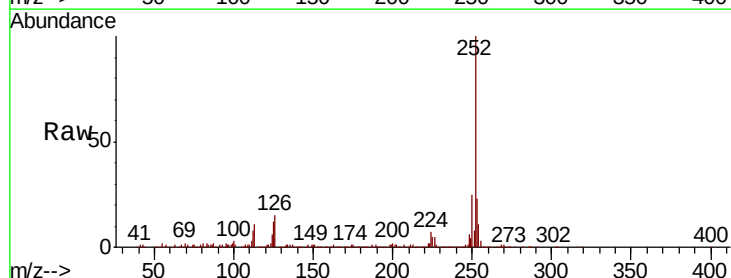
RT: 15.04 min Scan# 2203

Delta R.T. 0.02 min

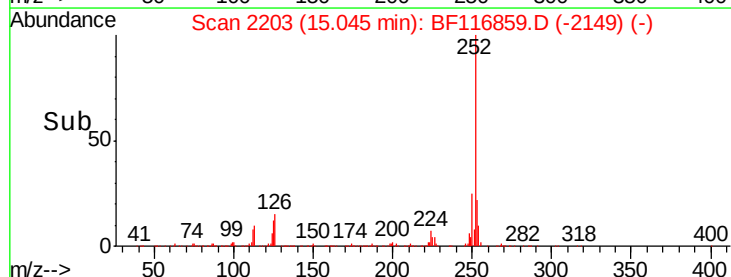
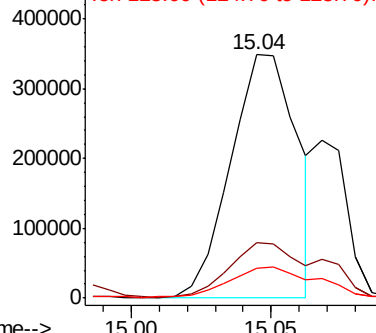
Lab File: BF116859.D

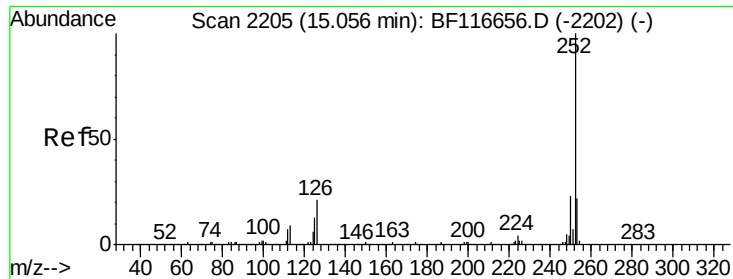
Acq: 6 Sep 2019 14:00

Tgt Ion:	252	Resp:	581649
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.7	26.5
125	12.4	8.2	12.2#



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





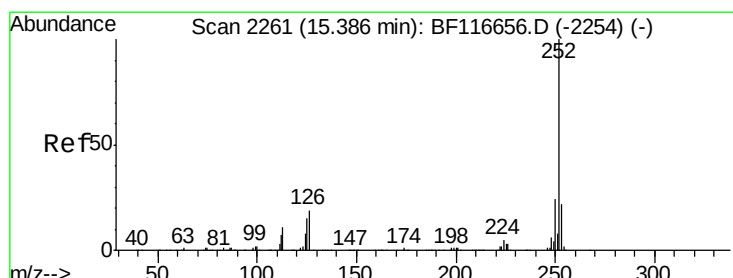
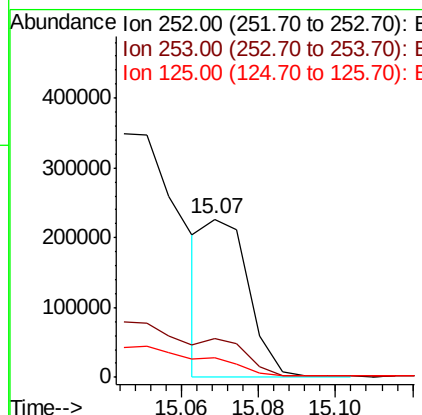
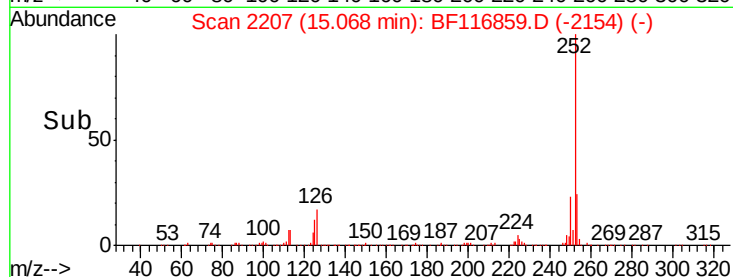
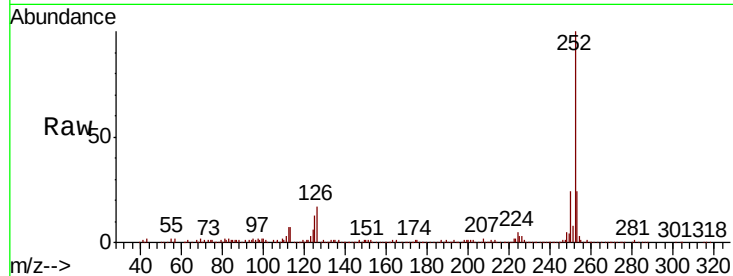
#89
Benzo(k)fluoranthene
Concen: 18.594 ng m
RT: 15.07 min Scan# 2207
Delta R.T. 0.01 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Instrument :
BNA_F
ClientSampleId :
TP-7

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.7	26.5
125	12.6	8.6	13.0

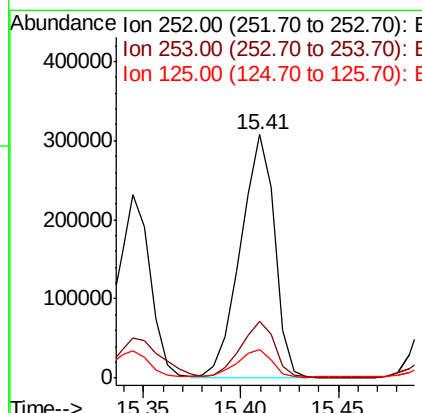
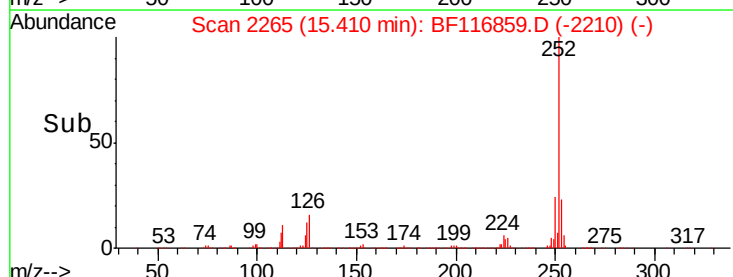
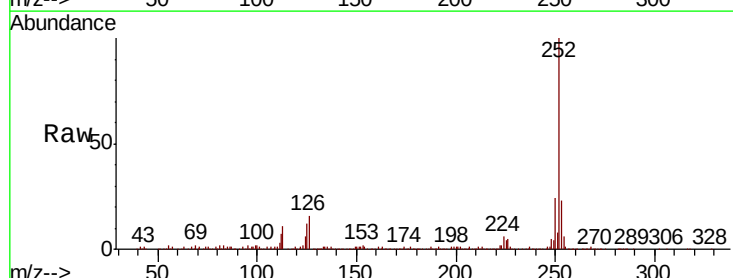
Manual Integrations
APPROVED

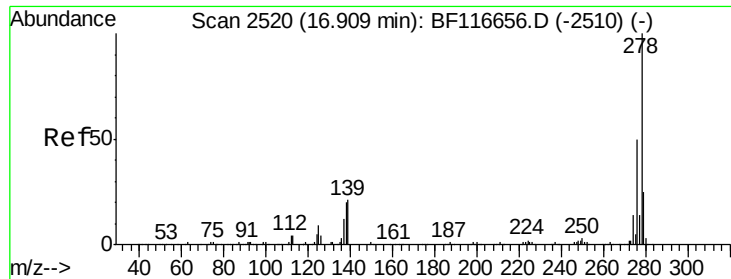
mohammad
9/12/2019 9:11:33 AM



#90
Benzo(a)pyrene
Concen: 39.934 ng
RT: 15.41 min Scan# 2265
Delta R.T. 0.02 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	12.0	9.8	14.8





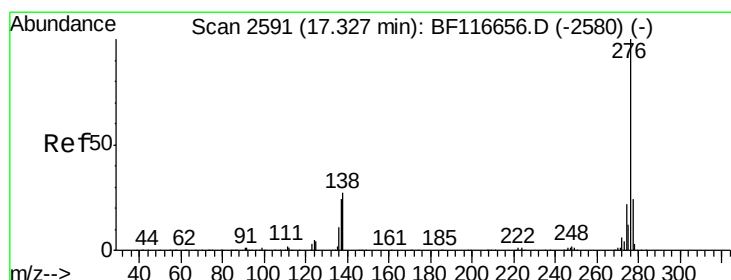
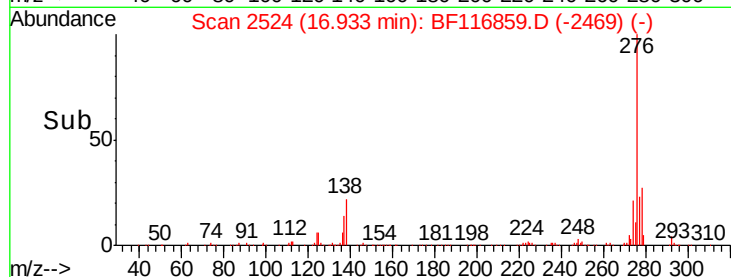
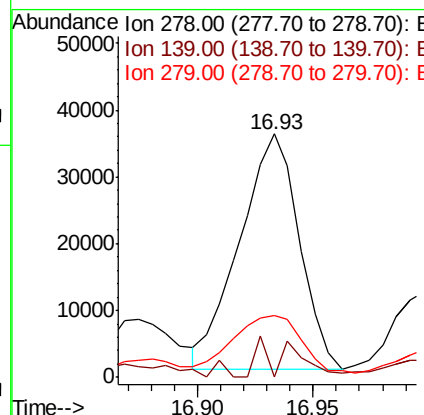
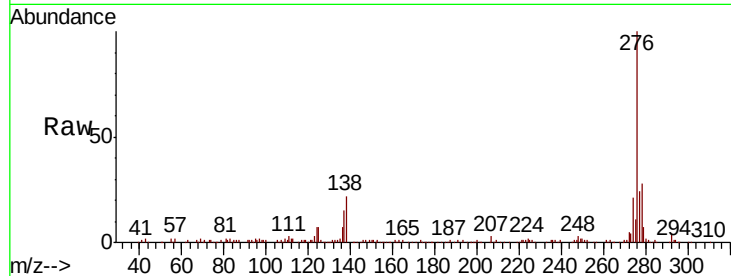
#91
Dibenzo(a,h)anthracene
Concen: 7.746 ng
RT: 16.93 min Scan# 2524
Delta R.T. 0.02 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Instrument :
BNA_F
ClientSampled :
TP-7

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.4	18.6
279	25.7	18.2	27.4

Manual Integrations
APPROVED

mohammad
9/12/2019 9:11:33 AM



#92
Benzo(g,h,i)perylene
Concen: 29.598 ng
RT: 17.37 min Scan# 2599
Delta R.T. 0.05 min
Lab File: BF116859.D
Acq: 6 Sep 2019 14:00

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.5	27.7
138	22.0	16.2	24.2

