

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
 Data File : BF117609.D
 Acq On : 30 Oct 2019 00:20
 Operator : JU
 Sample : K5576-15 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CSA-2-1-4

Manual Integrations
 APPROVED

mohammad
 10/30/2019 4:53:35 PM

Quant Time: Oct 30 04:59:47 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	35089	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	131106	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	57015	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	86238	20.00	ng	0.00
76) Chrysene-d12	13.90	240	65235	20.00	ng	0.00
87) Perylene-d12	15.33	264	50115	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	41211	17.47	ng	0.02
7) Phenol-d6	6.40	99	58990	18.62	ng	0.02
23) Nitrobenzene-d5	7.30	82	31243	11.76	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	7988	16.19	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	57076	14.10	ng	-0.01
79) Terphenyl-d14	12.83	244	56646	14.16	ng	0.00

Target Compounds				Qvalue		
49) Acenaphthylene	9.62	152	56773	10.861	ng	98
50) Dimethylphthalate	9.48	163	8528	2.098	ng	# 96
71) Phenanthrene	11.27	178	94827	18.937	ng	98
72) Anthracene	11.33	178	57226	11.138	ng	100
73) Carbazole	11.49	167	13575	2.891	ng	98
75) Fluoranthene	12.47	202	276490	55.155	ng	99
78) Pyrene	12.70	202	241265	43.057	ng	99
80) Butylbenzylphthalate	13.30	149	77708	27.869	ng	92
81) Benzo(a)anthracene	13.89	228	128363	29.171	ng	97
83) Chrysene	13.92	228	110838	25.701	ng	97
86) Indeno(1,2,3-cd)pyrene	16.76	276	43101	13.386	ng	93
88) Benzo(b)fluoranthene	14.93	252	113549m	38.370	ng	
89) Benzo(k)fluoranthene	14.94	252	42700m	14.078	ng	
90) Benzo(a)pyrene	15.27	252	65619	24.388	ng	# 94
91) Dibenzo(a,h)anthracene	16.74	278	10194m	4.382	ng	
92) Benzo(g,h,i)perylene	17.18	276	36537	16.598	ng	94

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

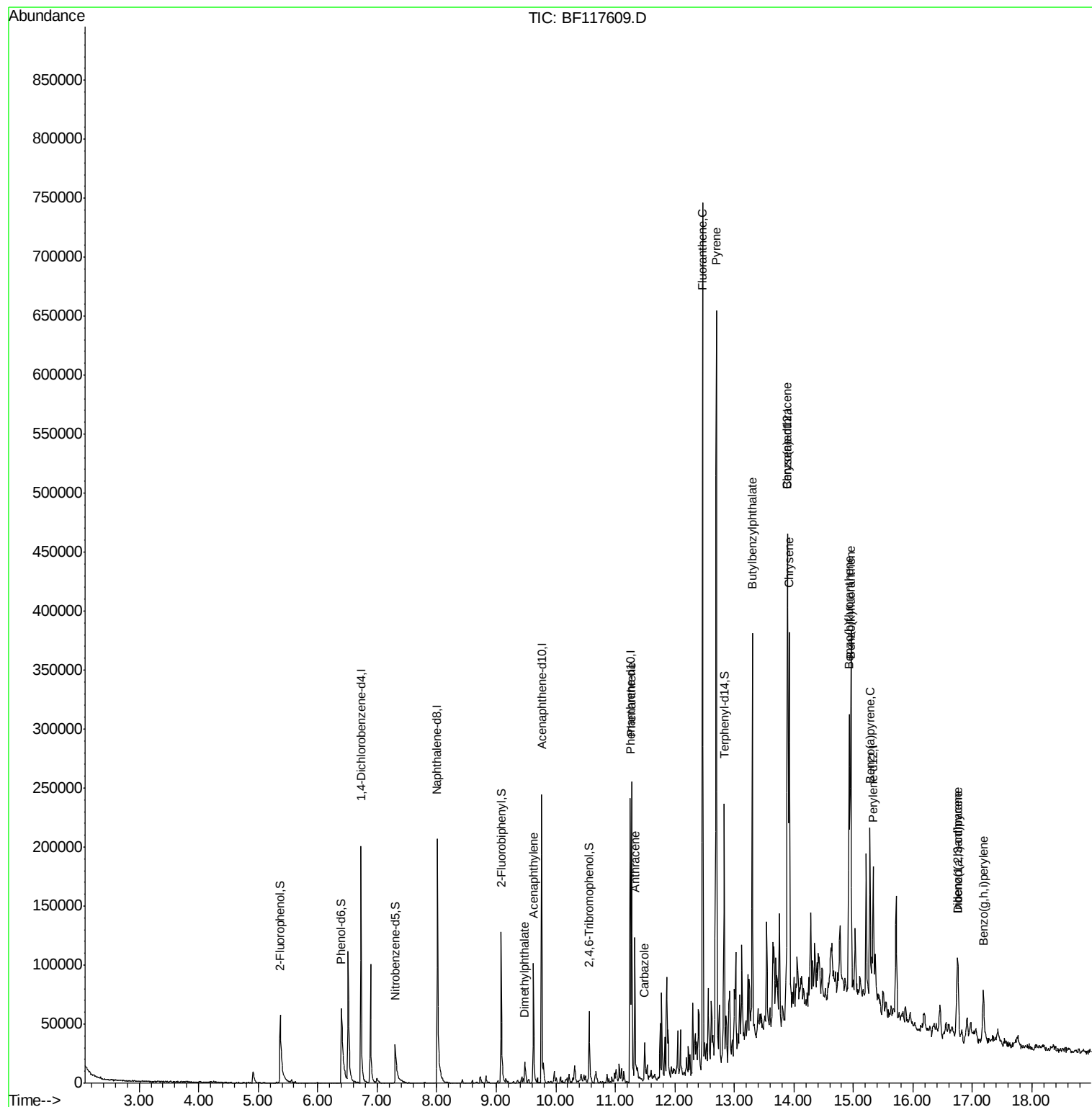
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117609.D
Acq On : 30 Oct 2019 00:20
Operator : JU
Sample : K5576-15 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

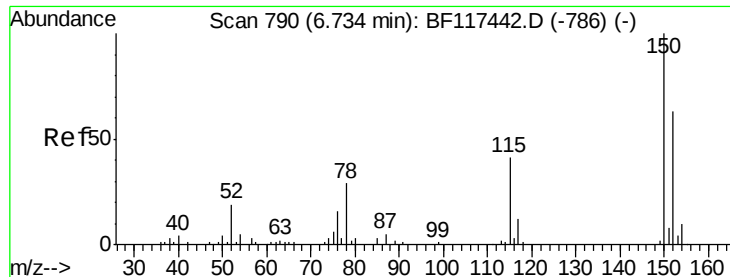
Instrument :
BNA_F
ClientSampleId :
CSA-2-1-4

Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM

Quant Time: Oct 30 04:59:47 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 18:53:31 2019
Response via : Initial Calibration





#1

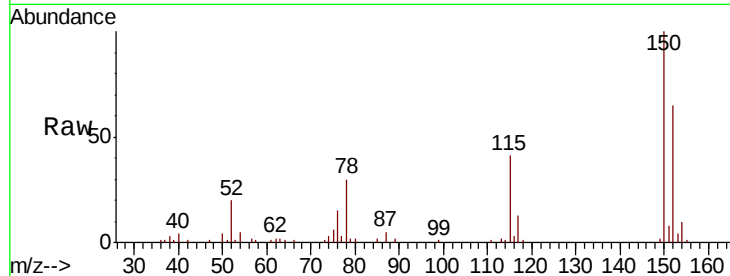
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-4

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	126.8	190.2
115	63.2	51.6	77.4

Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM

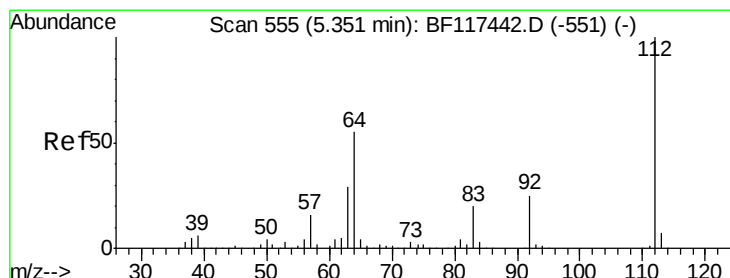
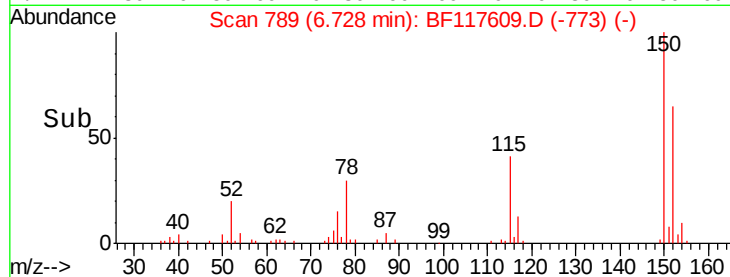
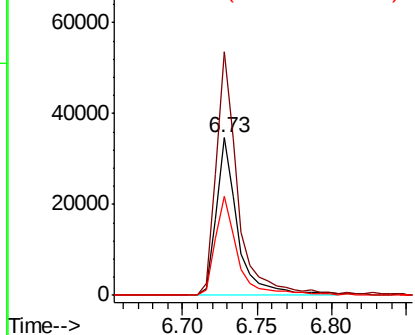


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

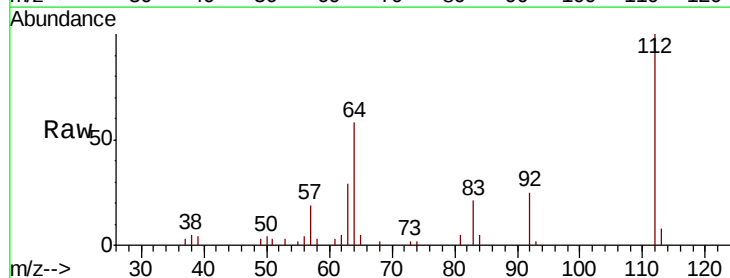
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 17.473 ng
RT: 5.37 min Scan# 558
Delta R.T. 0.02 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.5	44.1	66.1
63	28.8	23.4	35.2

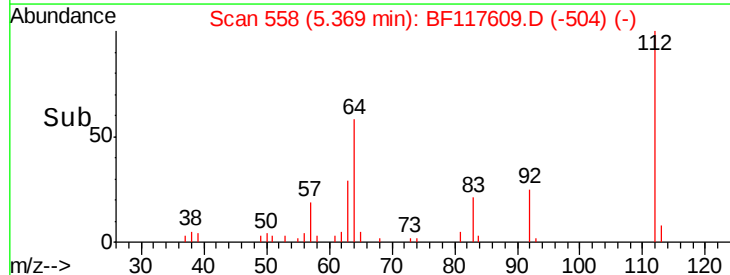
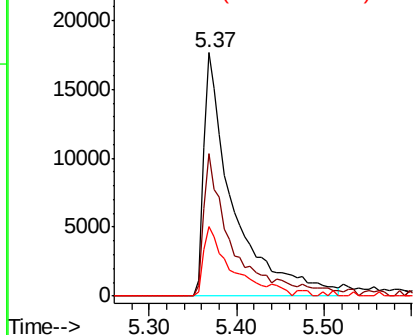


Abundance

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: 18.621 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.02 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

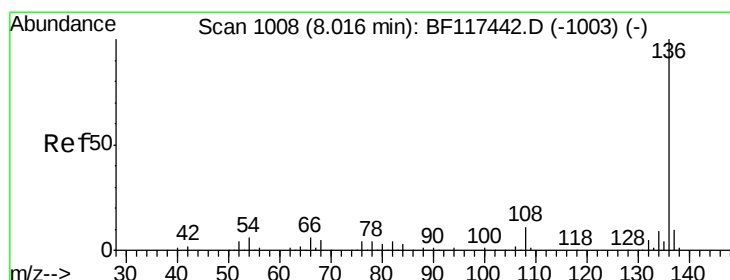
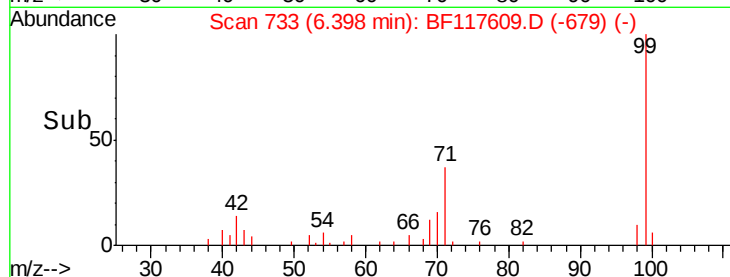
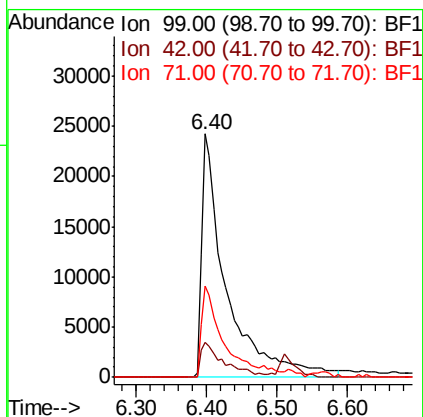
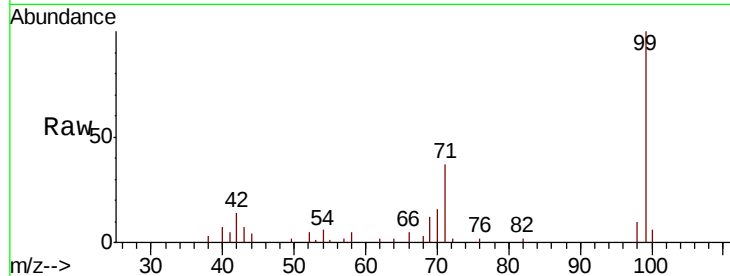
ClientSampleId :

CSA-2-1-4

Tot Ion:	99	Resp:	58990
Ion Ratio	Lower	Upper	
99	100		
42	14.2	12.8	19.2
71	37.3	28.6	43.0

Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM



#21

Naphthalene-d8

Concen: 20.000 ng

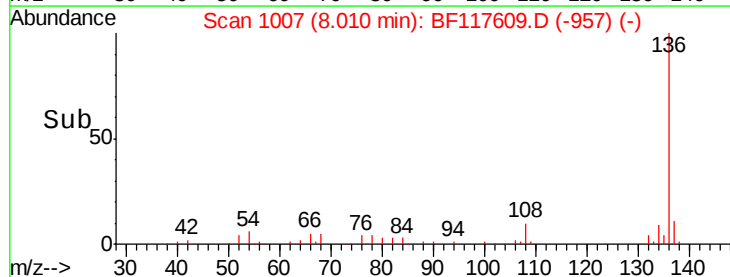
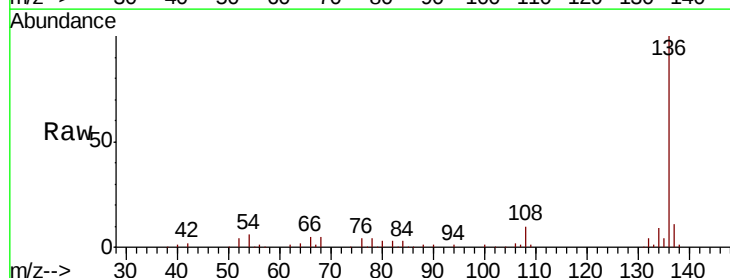
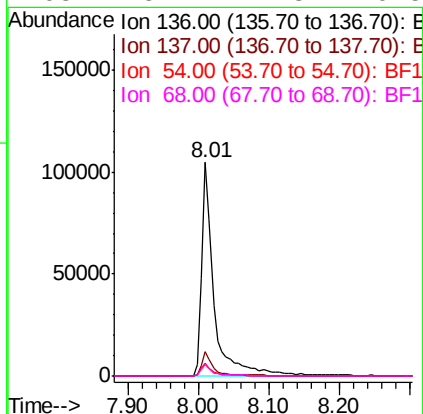
RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Tgt Ion:	136	Resp:	131106
Ion Ratio	Lower	Upper	
136	100		
137	11.5	8.2	12.4
54	5.9	4.5	6.7
68	5.4	4.3	6.5





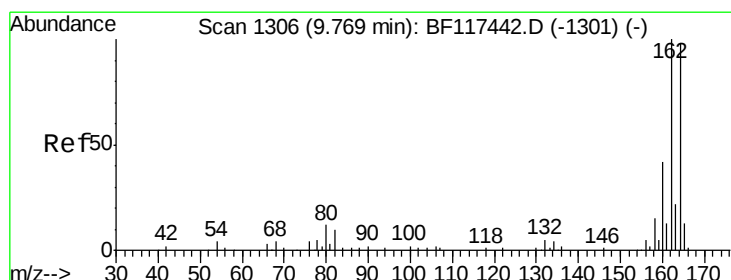
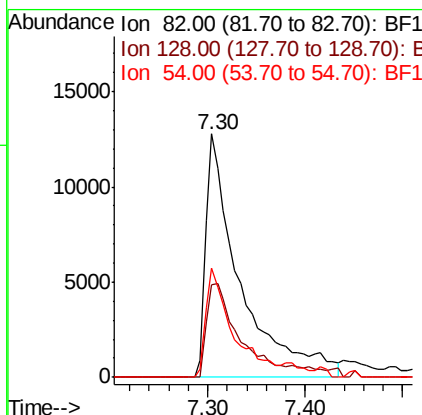
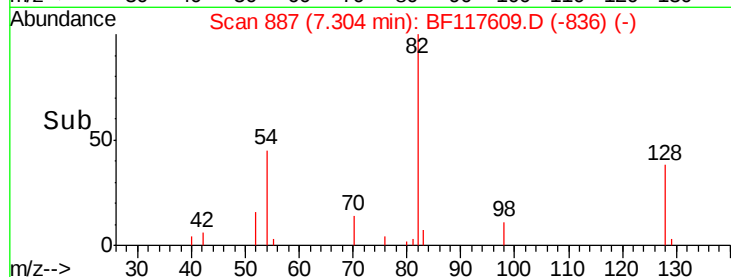
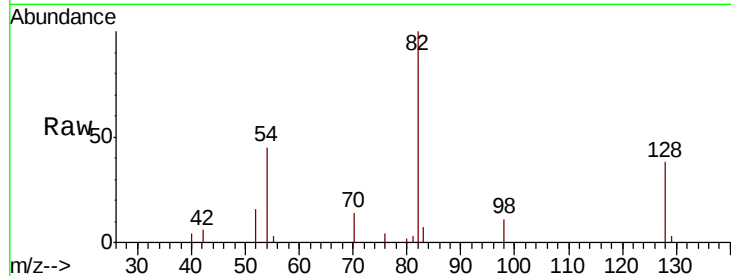
#23
Nitrobenzene-d5
Concen: 11.765 ng
RT: 7.30 min Scan# 887
Delta R.T. -0.00 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-4

Tot Ion	82	Resp	31243
Ion Ratio	100	Lower	Upper
128	37.8	32.2	48.2
54	45.1	34.2	51.2

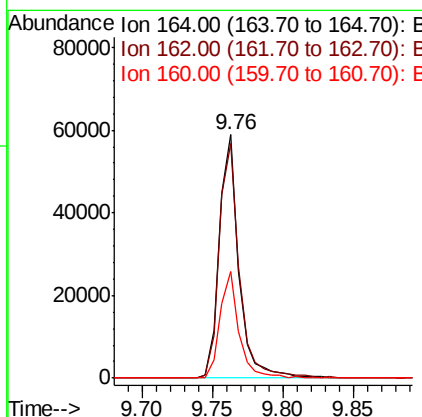
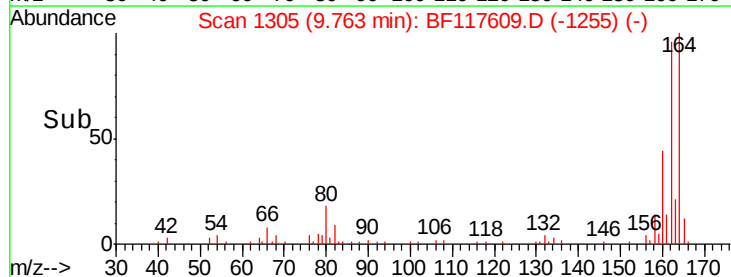
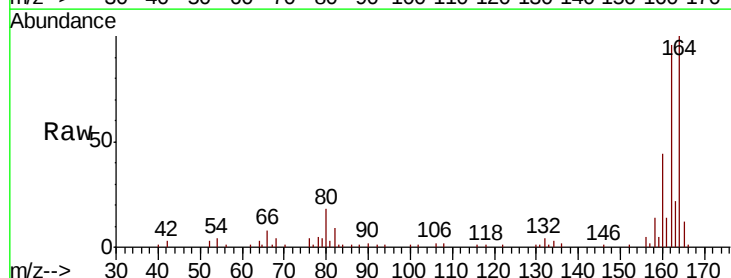
Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion	164	Resp	57015
Ion Ratio	100	Lower	Upper
162	96.5	81.8	122.6
160	43.8	34.4	51.6





#42

2,4,6-Tribromophenol

Concen: 16.192 ng

RT: 10.56 min Scan# 1441

Delta R.T. -0.00 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

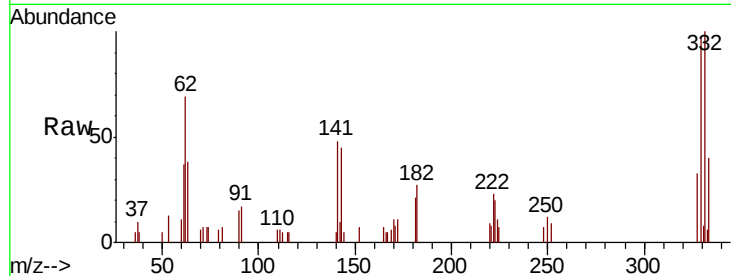
ClientSampled :

CSA-2-1-4

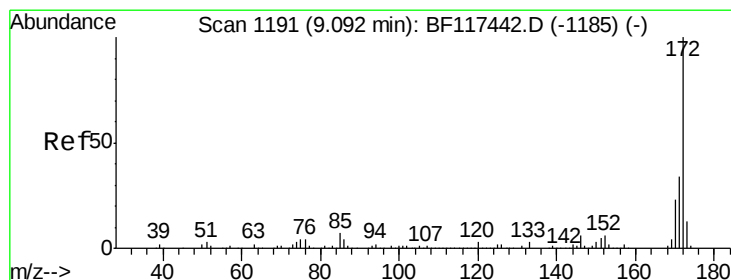
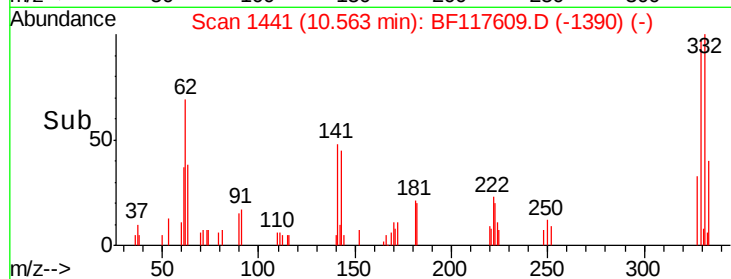
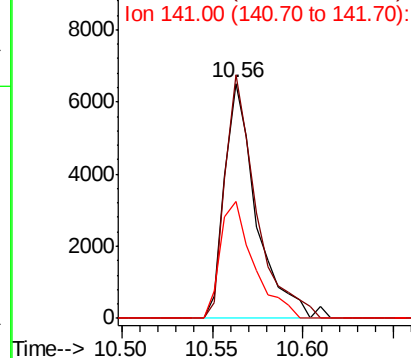
Tot Ion:	330	Resp:	7988
Ion Ratio	Lower	Upper	
330	100		
332	101.0	78.5	117.7
141	52.0	37.0	55.6

Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM



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: 14.105 ng

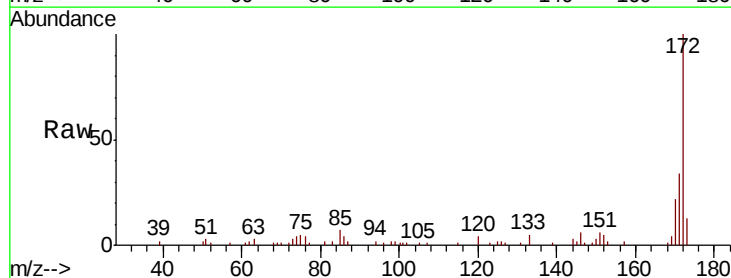
RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

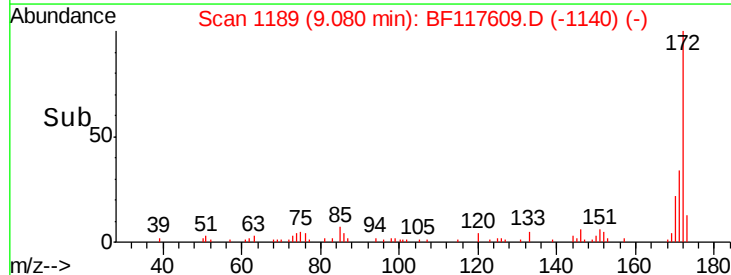
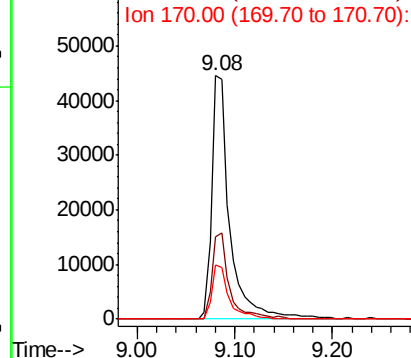
Lab File: BF117609.D

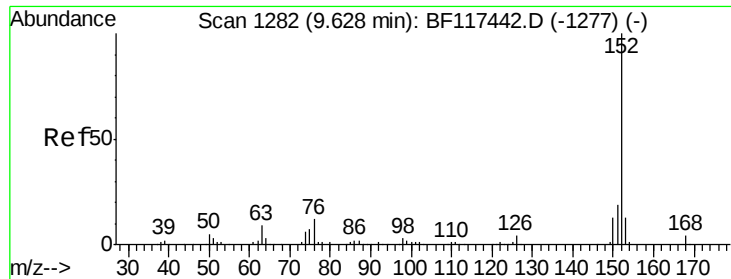
Acq: 30 Oct 2019 00:20

Tgt Ion:	172	Resp:	57076
Ion Ratio	Lower	Upper	
172	100		
171	33.7	27.5	41.3
170	22.0	18.6	27.8



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: 10.861 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

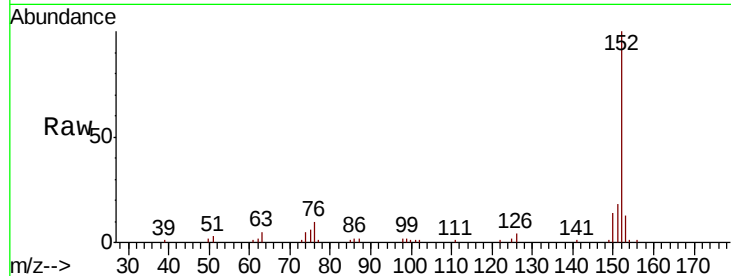
ClientSampleId :

CSA-2-1-4

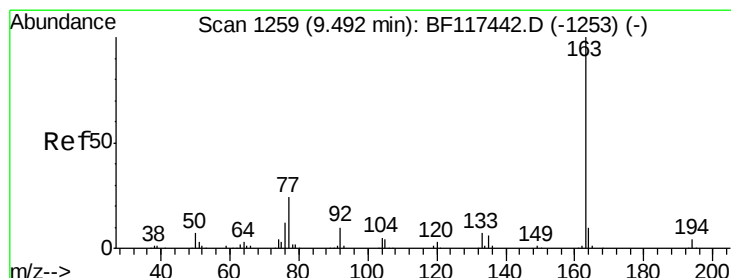
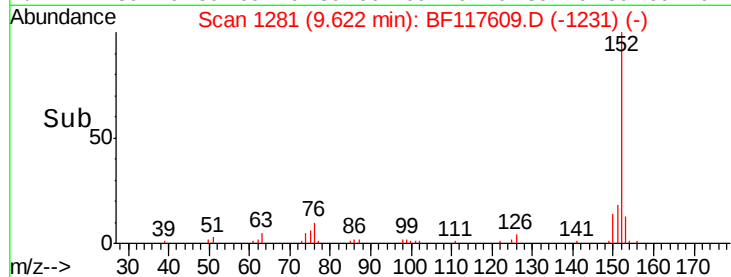
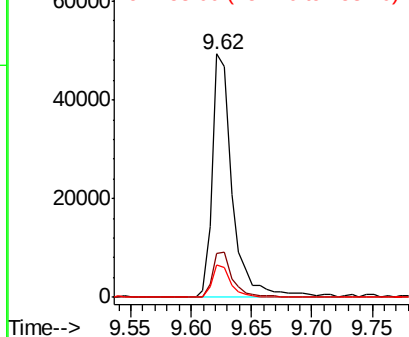
Tot Ion:	152	Resp:	56773
Ion Ratio	Lower	Upper	
152	100		
151	18.0	15.4	23.0
153	13.2	10.3	15.5

Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 2.098 ng

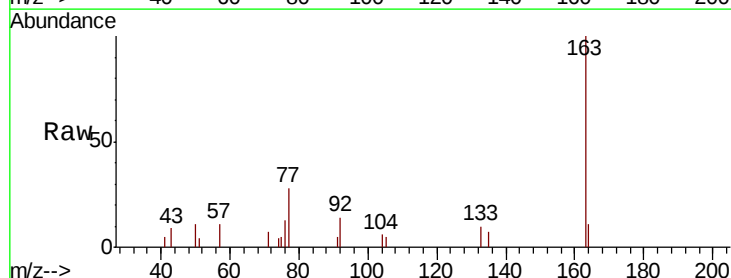
RT: 9.48 min Scan# 1257

Delta R.T. -0.01 min

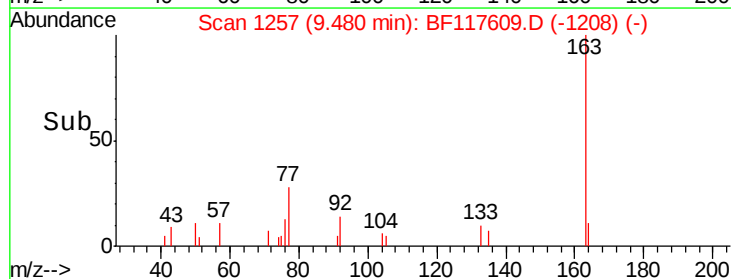
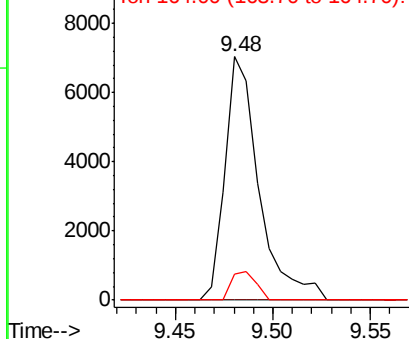
Lab File: BF117609.D

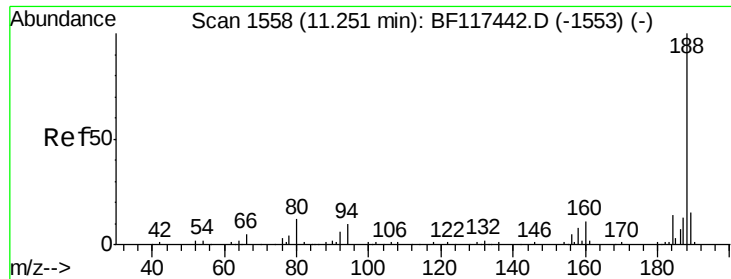
Acq: 30 Oct 2019 00:20

Tgt Ion:	163	Resp:	8528
Ion Ratio	Lower	Upper	
163	100		
194	0.0	2.9	4.3#
164	10.9	8.2	12.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.00 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

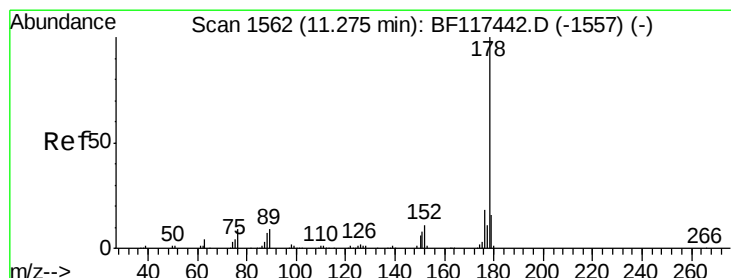
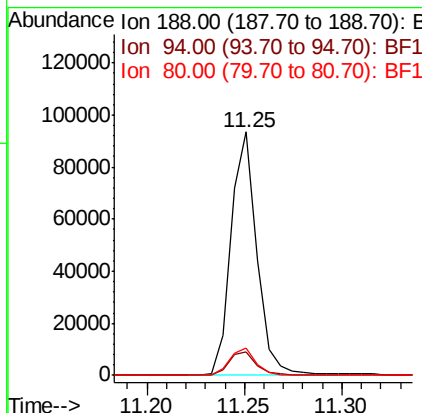
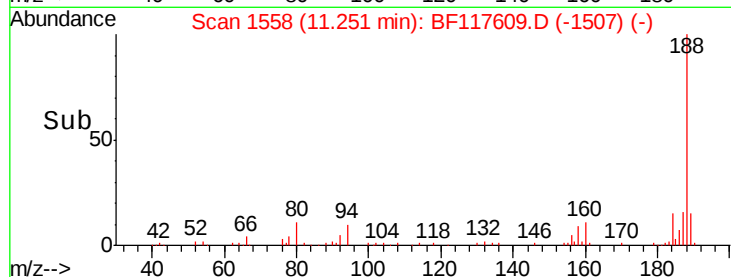
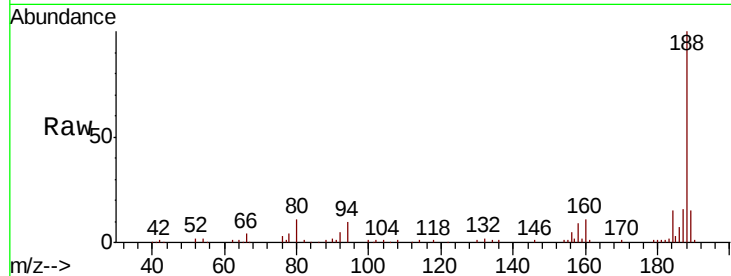
ClientSampleId :

CSA-2-1-4

Tot Ion:	188	Resp:	86238
Ion Ratio	Lower	Upper	
188	100		
94	9.5	8.0	12.0
80	11.3	9.5	14.3

Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM



#71

Phenanthrene

Concen: 18.937 ng

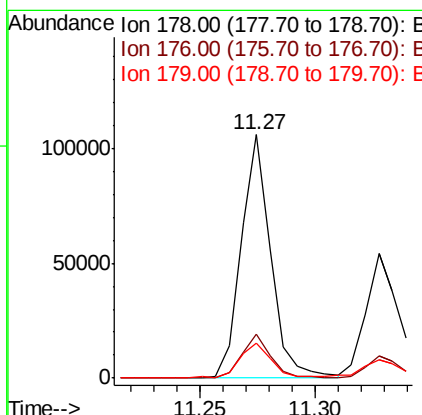
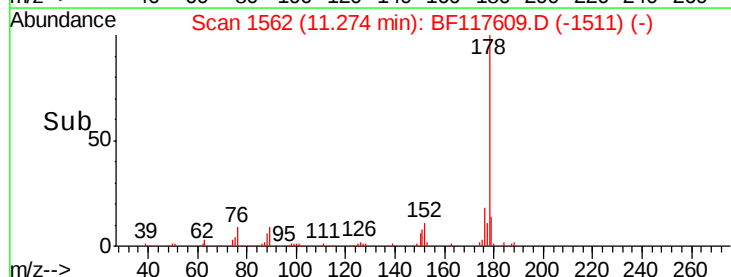
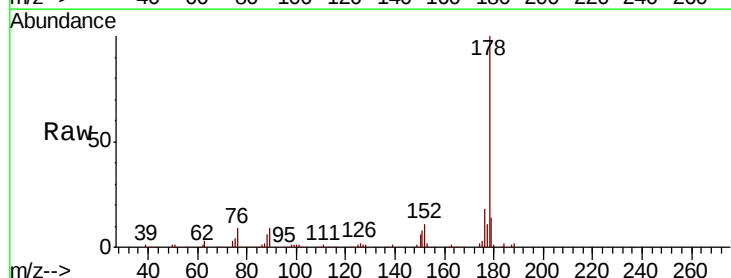
RT: 11.27 min Scan# 1562

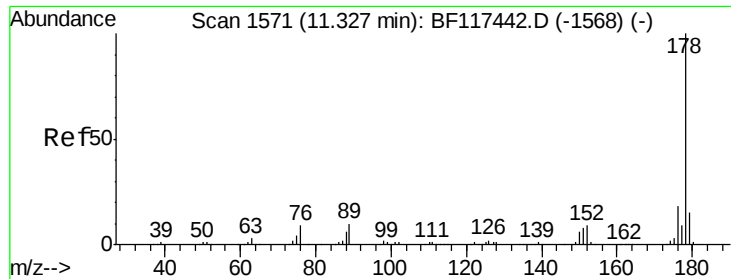
Delta R.T. -0.00 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Tgt Ion:	178	Resp:	94827
Ion Ratio	Lower	Upper	
178	100		
176	18.3	14.6	22.0
179	14.4	12.6	19.0





#72

Anthracene

Concen: 11.138 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.00 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

ClientSampleId :

CSA-2-1-4

Tot Ion:178 Resp: 57226

Ion Ratio Lower Upper

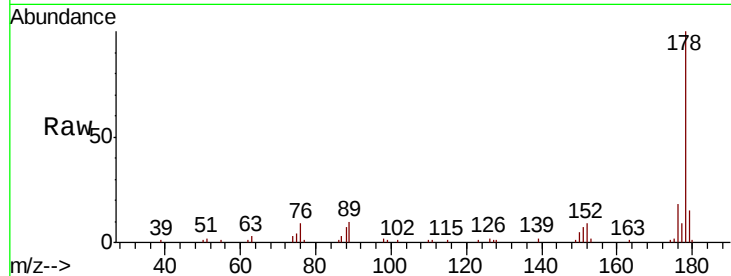
178 100

176 18.3 14.7 22.1

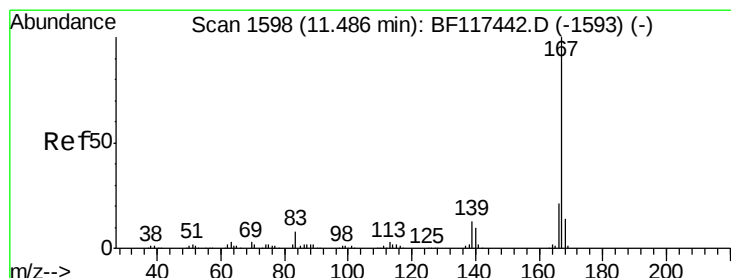
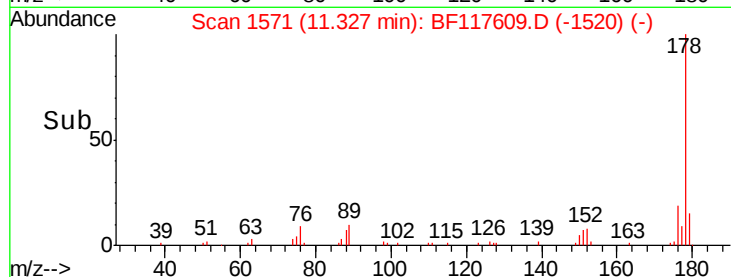
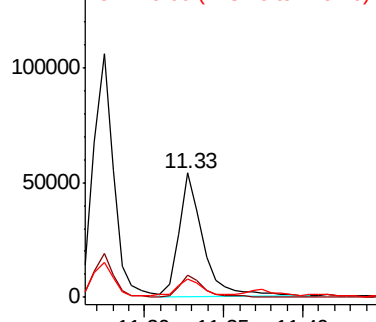
179 15.1 12.2 18.2

Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM



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: 2.891 ng

RT: 11.49 min Scan# 1599

Delta R.T. 0.01 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

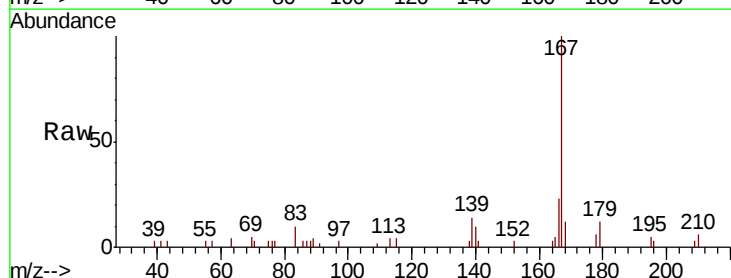
Tgt Ion:167 Resp: 13575

Ion Ratio Lower Upper

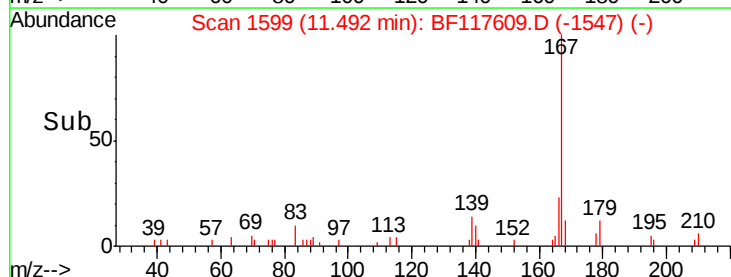
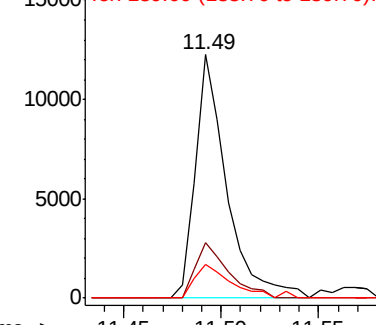
167 100

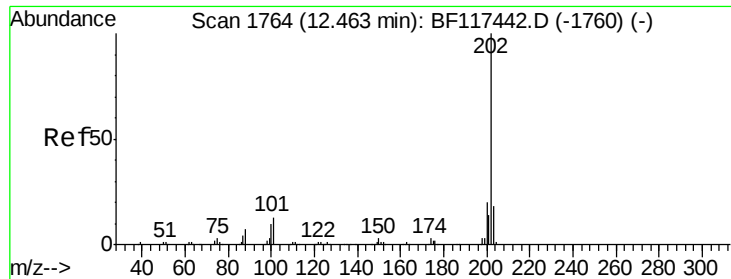
166 22.7 17.0 25.6

139 13.8 10.6 16.0



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: 55.155 ng

RT: 12.47 min Scan# 1765

Delta R.T. 0.01 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

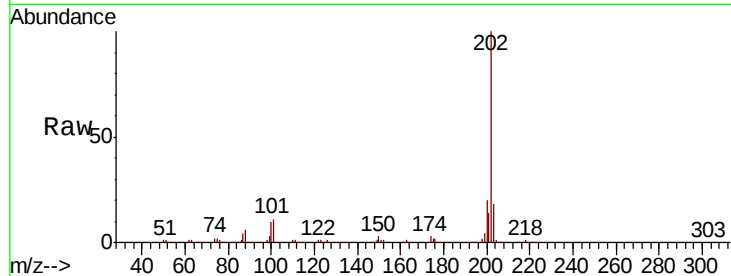
ClientSampleId :

CSA-2-1-4

Tot Ion:	202	Resp:	276490
Ion Ratio	Lower	Upper	
202	100		
101	11.4	0.0	32.7
203	17.7	0.0	37.6

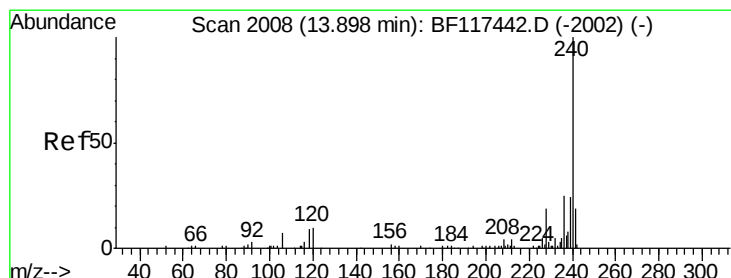
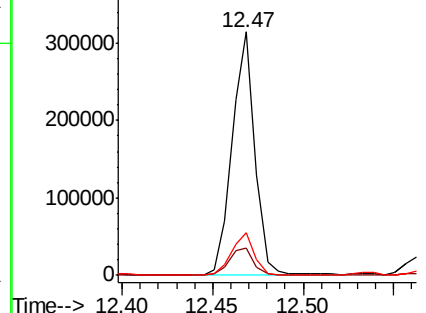
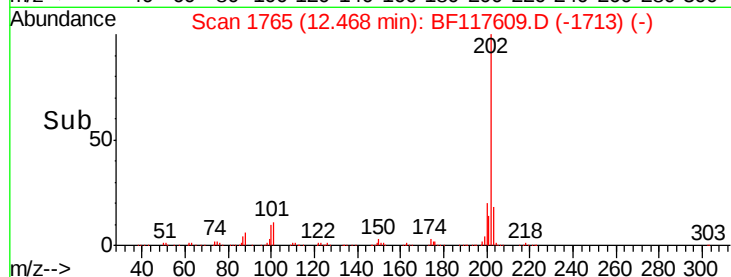
Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM



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

12.47



#76

Chrysene-d12

Concen: 20.000 ng

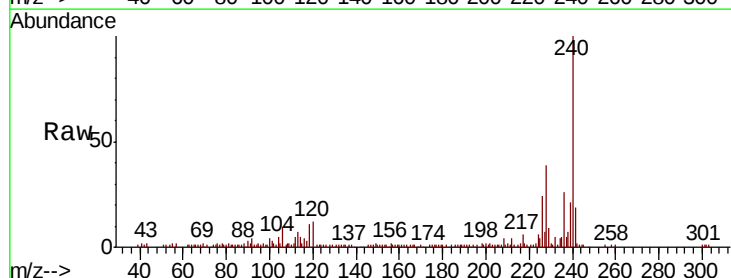
RT: 13.90 min Scan# 2008

Delta R.T. -0.00 min

Lab File: BF117609.D

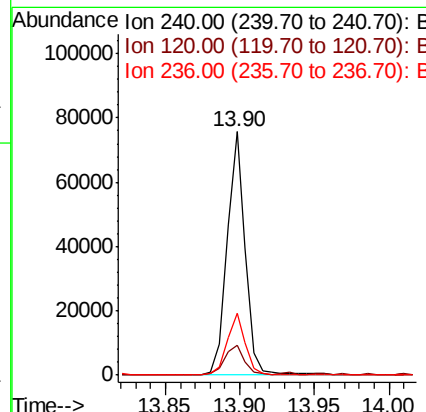
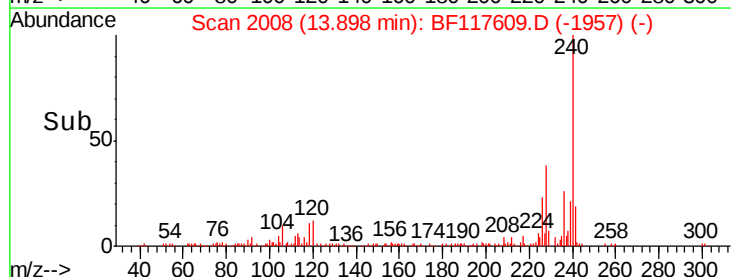
Acq: 30 Oct 2019 00:20

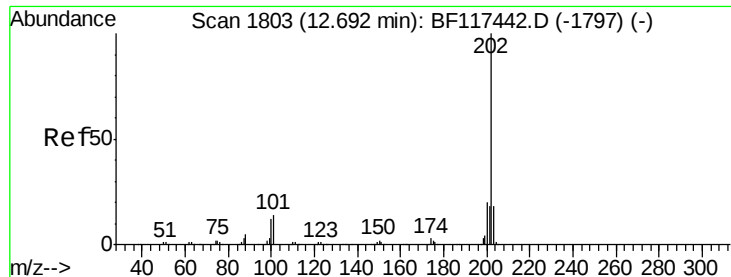
Tgt Ion:	240	Resp:	65235
Ion Ratio	Lower	Upper	
240	100		
120	12.0	8.4	12.6
236	25.5	20.0	30.0



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

13.90





#78

Pvrene

Concen: 43.057 ng

RT: 12.70 min Scan# 1804

Delta R.T. 0.01 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Instrument :

BNA_F

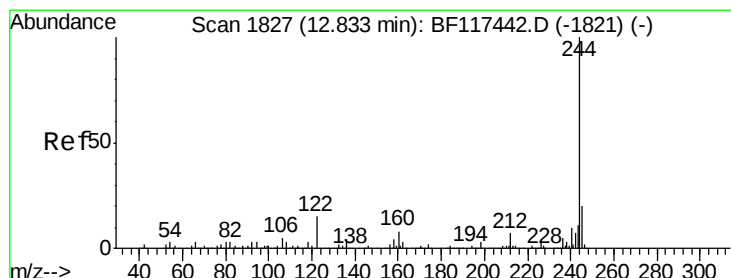
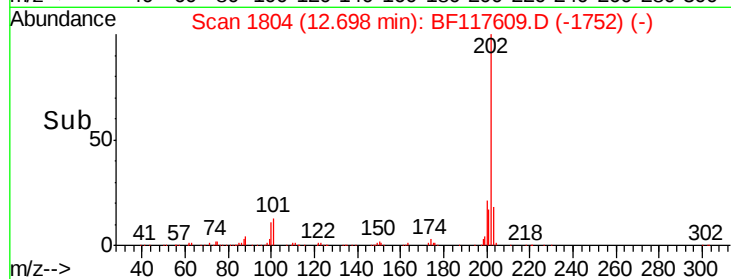
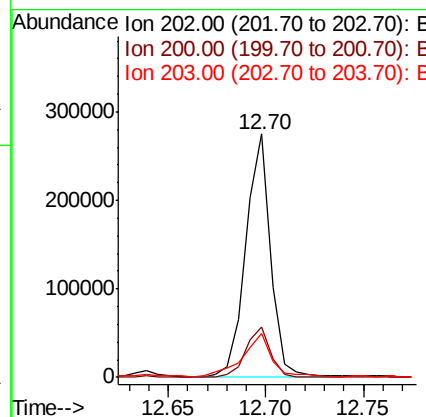
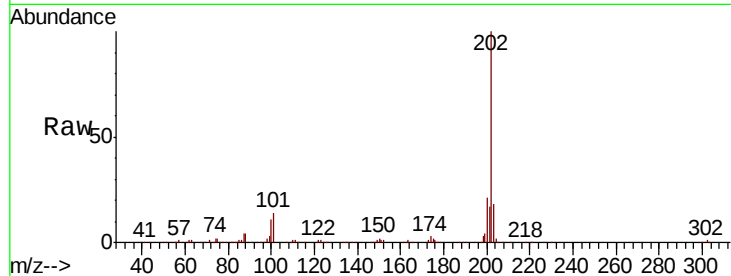
ClientSampleId :

CSA-2-1-4

Tot Ion:	202	Resp:	241265
Ion Ratio	Lower	Upper	
202	100		
200	20.6	16.2	24.2
203	17.9	14.0	21.0

Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM



#79

Terphenyl-d14

Concen: 14.164 ng

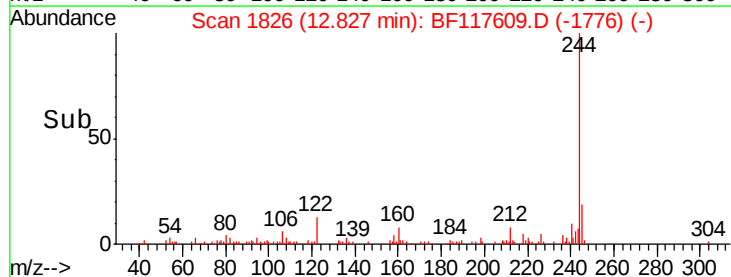
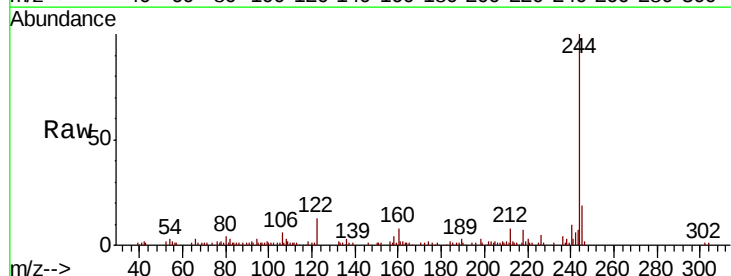
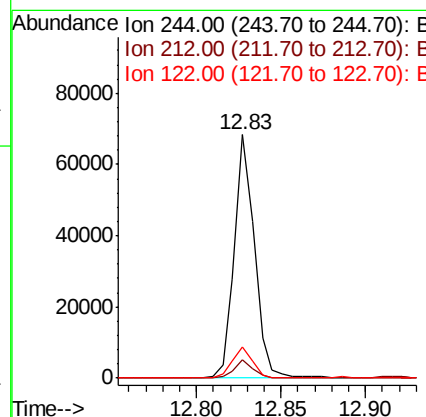
RT: 12.83 min Scan# 1826

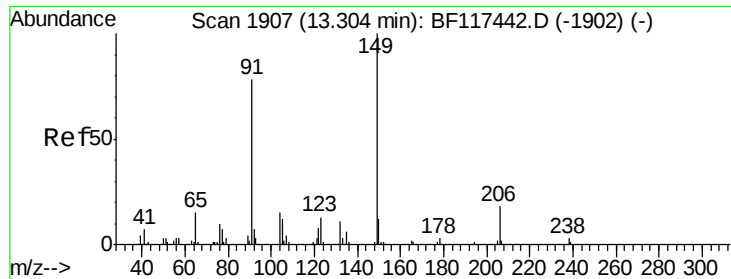
Delta R.T. -0.01 min

Lab File: BF117609.D

Acq: 30 Oct 2019 00:20

Tgt Ion:	244	Resp:	56646
Ion Ratio	Lower	Upper	
244	100		
212	7.7	5.8	8.6
122	13.0	11.8	17.8





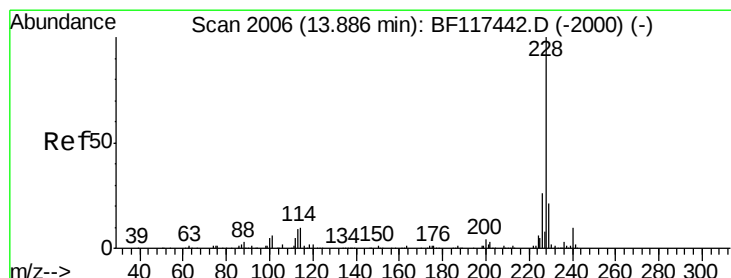
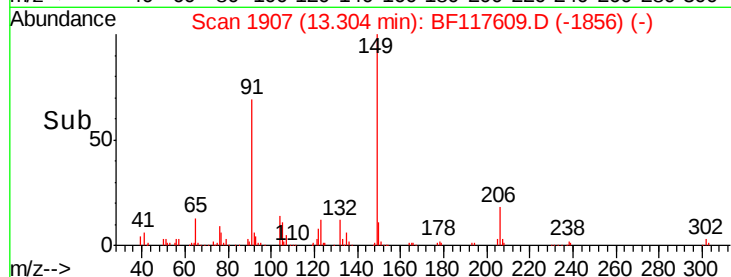
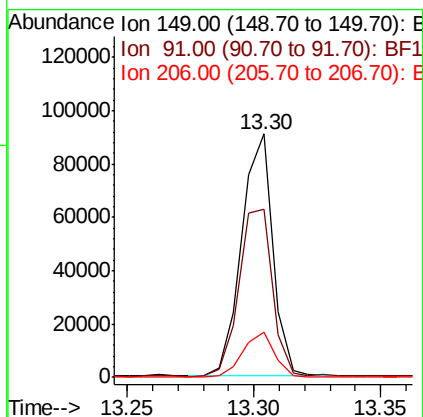
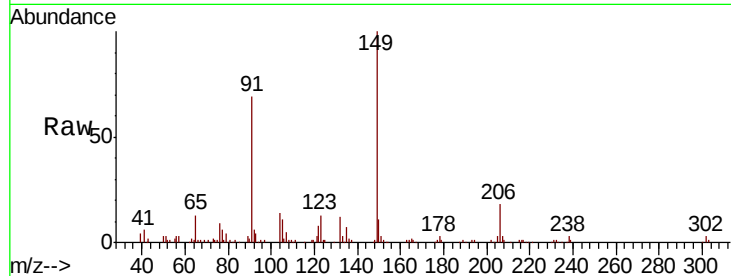
#80
Butylbenzylphthalate
Concen: 27.869 ng
RT: 13.30 min Scan# 1907
Delta R.T. -0.00 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-4

Tot Ion	Ratio	Lower	Upper
149	100		
91	69.1	62.1	93.1
206	18.4	14.3	21.5

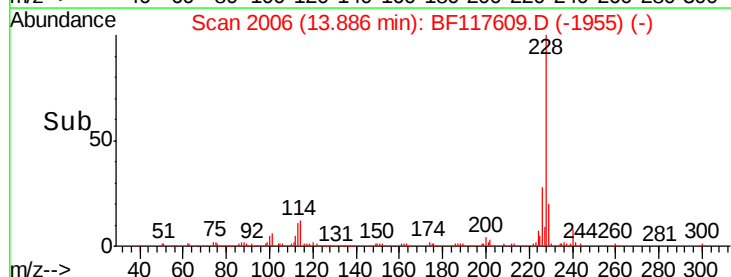
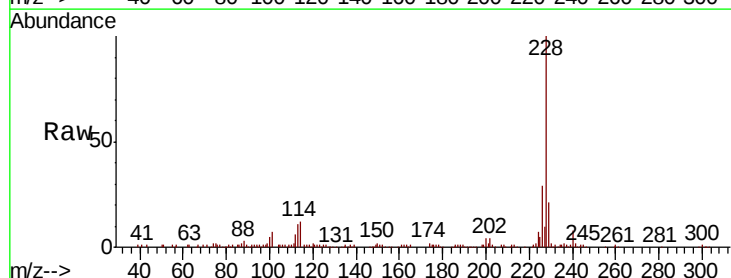
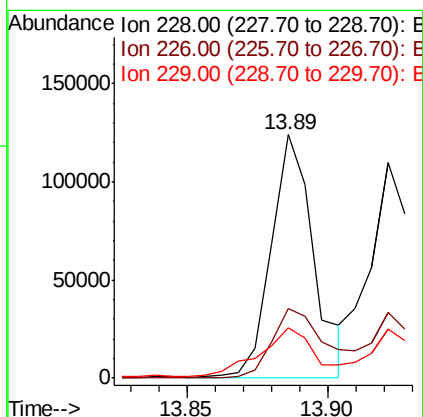
Manual Integrations
APPROVED

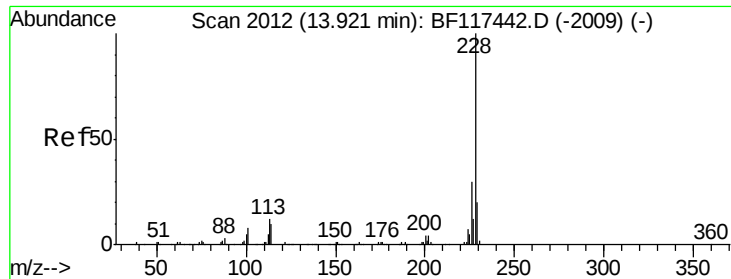
mohammad
10/30/2019 4:53:35 PM



#81
Benzo(a)anthracene
Concen: 29.171 ng
RT: 13.89 min Scan# 2006
Delta R.T. -0.00 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	21.0	31.4
229	20.7	16.4	24.6





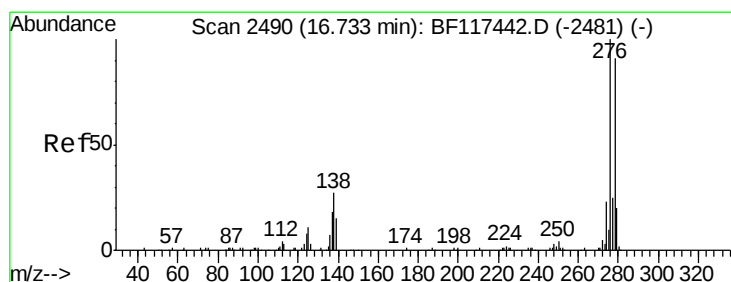
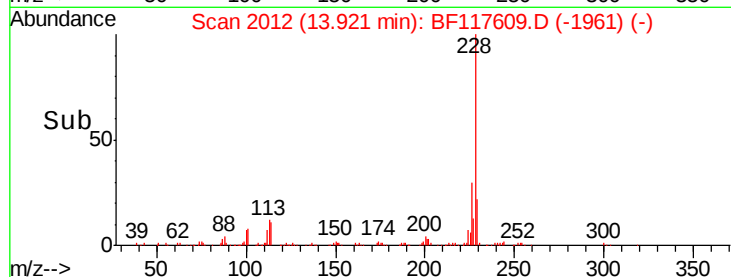
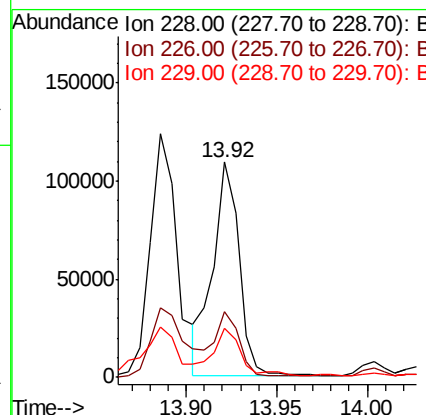
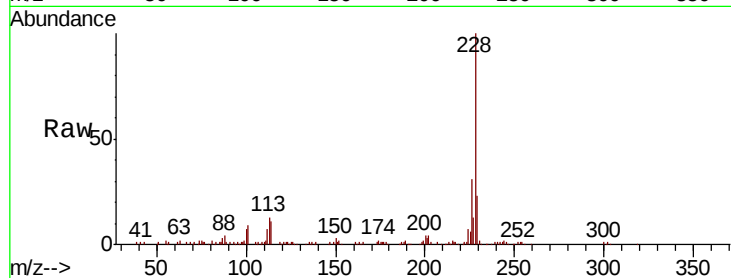
#83
Chrysene
Concen: 25.701 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.00 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-4

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.9	35.9
229	22.7	15.8	23.6

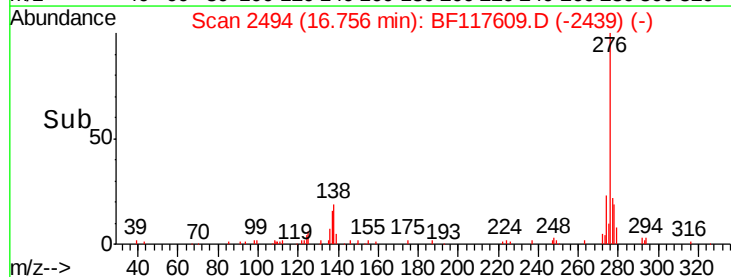
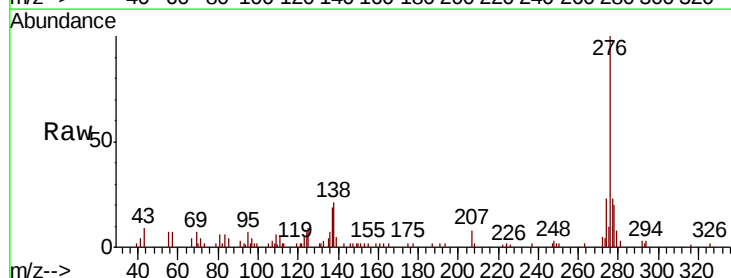
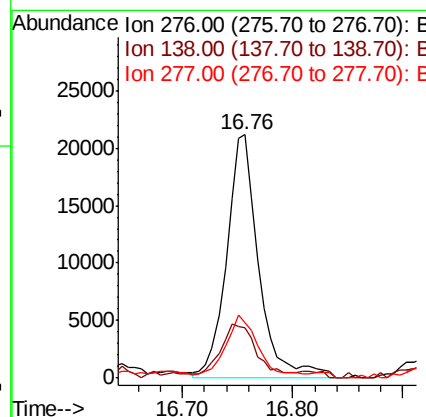
Manual Integrations
APPROVED

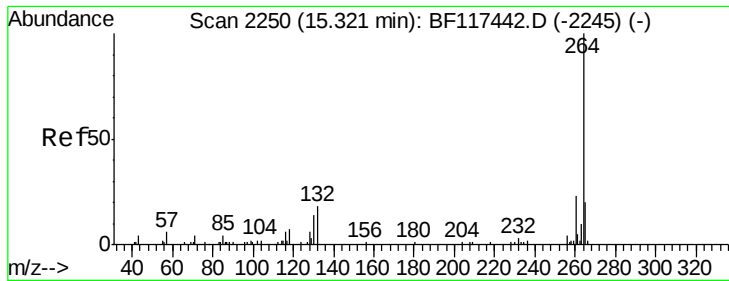
mohammad
10/30/2019 4:53:35 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 13.386 ng
RT: 16.76 min Scan# 2494
Delta R.T. 0.02 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.4	21.8	32.8
277	22.5	20.0	30.0





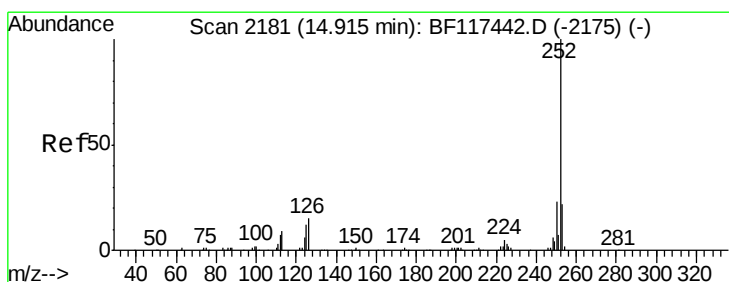
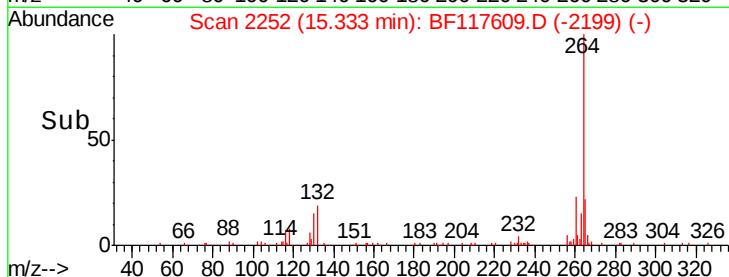
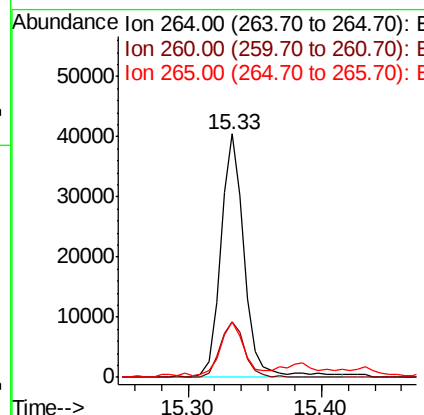
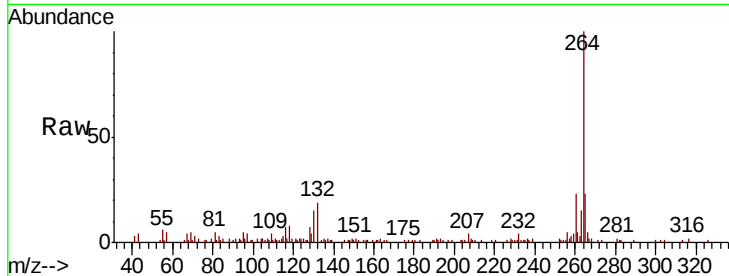
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Instrument :
BNA_F
ClientSampled :
CSA-2-1-4

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.4	27.6
265	22.9	16.1	24.1

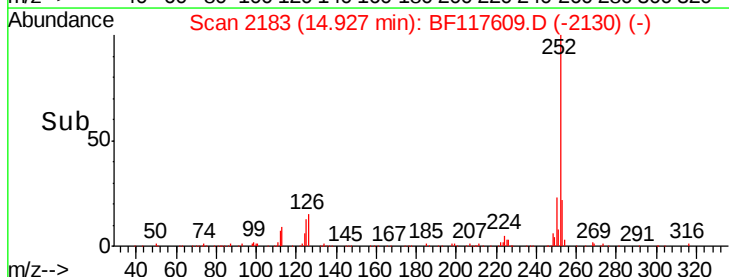
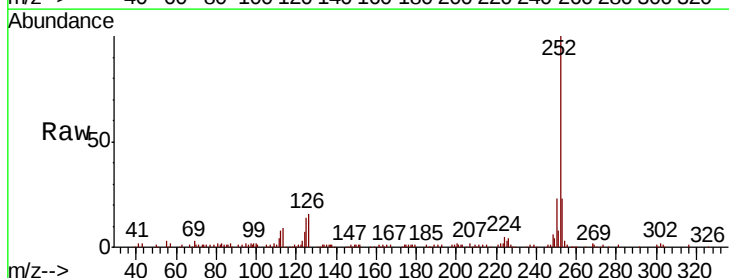
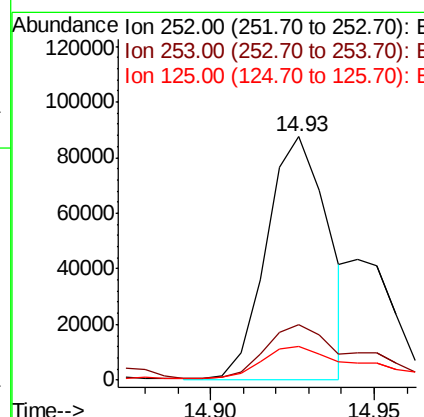
Manual Integrations
APPROVED

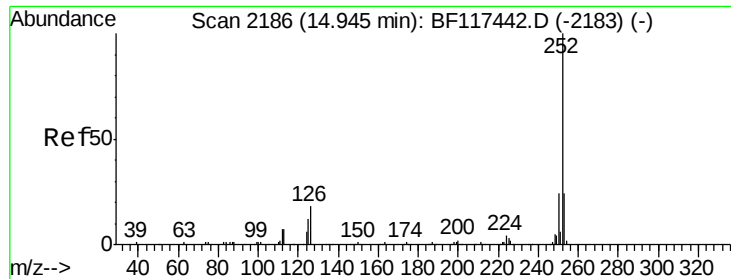
mohammad
10/30/2019 4:53:35 PM



#88
Benzo(b)fluoranthene
Concen: 38.370 ng m
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.6
125	13.6	9.9	14.9





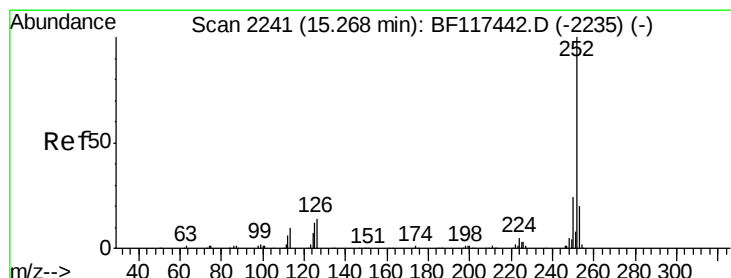
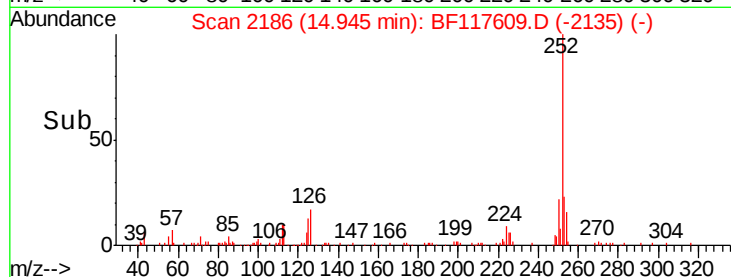
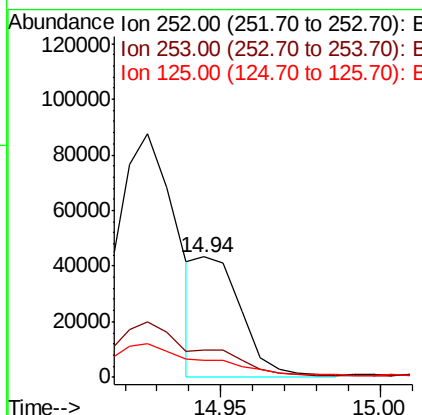
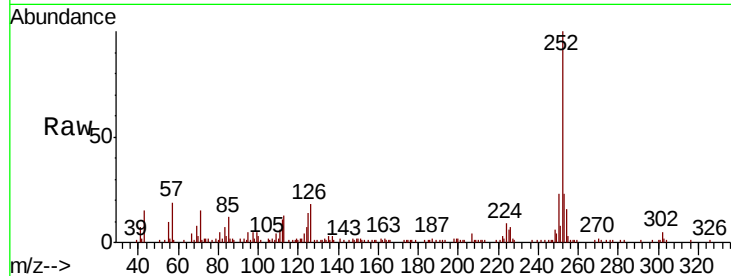
#89
Benzo(k)fluoranthene
Concen: 14.078 ng m
RT: 14.94 min Scan# 2186
Delta R.T. -0.00 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Instrument :
BNA_F
ClientSampled :
CSA-2-1-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	14.2	8.9	13.3

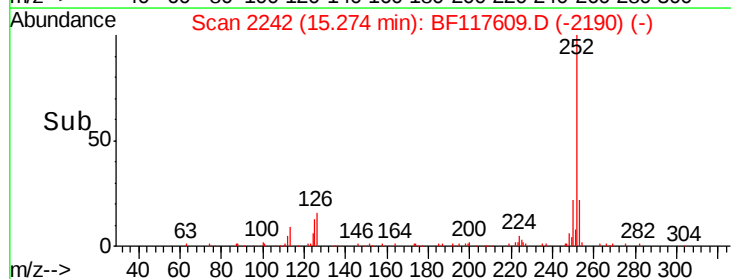
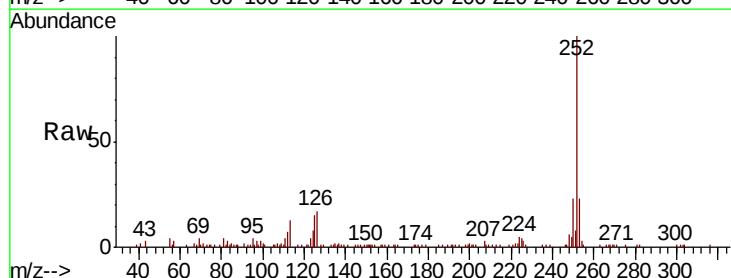
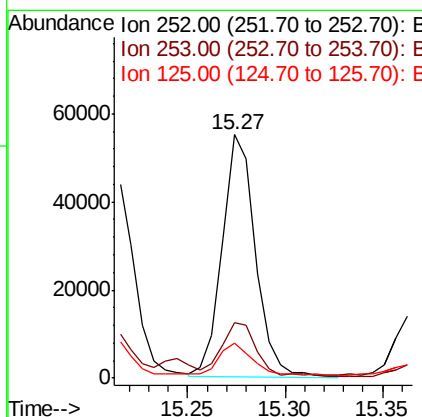
Manual Integrations
APPROVED

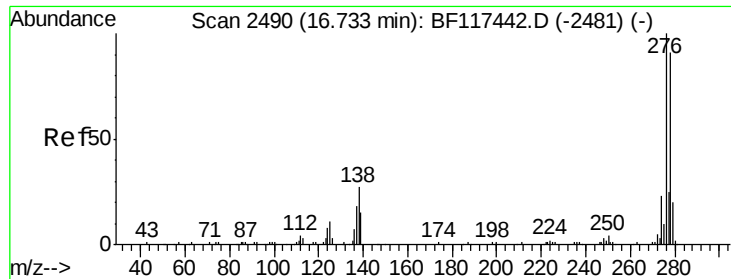
mohammad
10/30/2019 4:53:35 PM



#90
Benzo(a)pyrene
Concen: 24.388 ng
RT: 15.27 min Scan# 2242
Delta R.T. 0.01 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	16.3	24.5
125	14.6	9.2	13.8





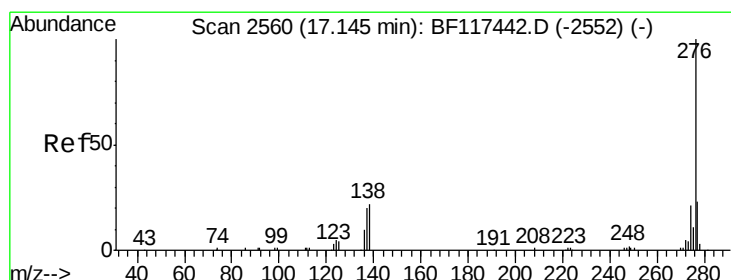
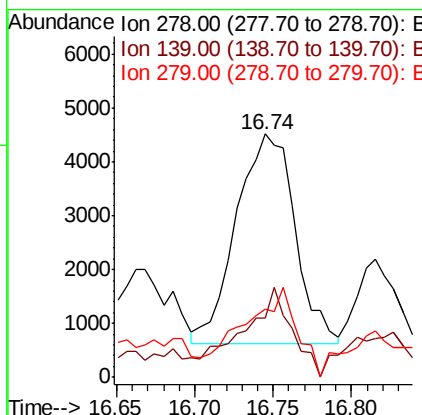
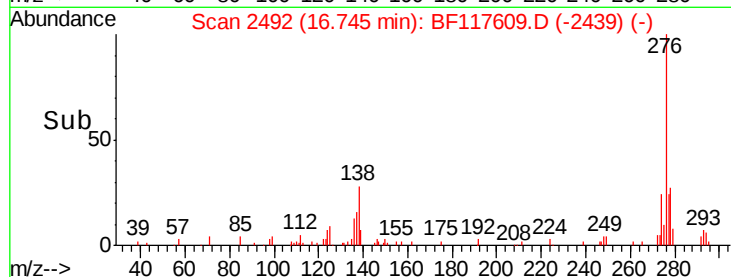
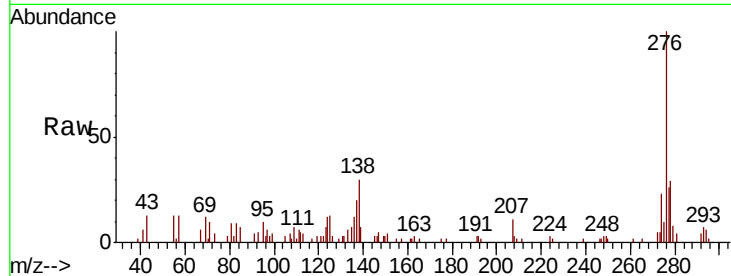
#91
Dibenzo(a,h)anthracene
Concen: 4.382 ng m
RT: 16.74 min Scan# 2492
Delta R.T. 0.01 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-4

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.2	13.4	20.0#
279	27.9	17.8	26.6#

Manual Integrations
APPROVED

mohammad
10/30/2019 4:53:35 PM



#92
Benzo(g,h,i)perylene
Concen: 16.598 ng
RT: 17.18 min Scan# 2566
Delta R.T. 0.04 min
Lab File: BF117609.D
Acq: 30 Oct 2019 00:20

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.4	27.6
138	26.4	17.8	26.6

