

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
 Data File : BF116417.D
 Acq On : 20 Aug 2019 5:38
 Operator : HP/JU
 Sample : K4384-03
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-3(3-4)

Manual Integrations
 APPROVED

mohammad
 8/22/2019 12:46:01 PM

Quant Time: Aug 20 08:27:22 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 19 06:03:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	105264	20.00	ng	-0.01
21) Naphthalene-d8	8.08	136	422345	20.00	ng	-0.02
39) Acenaphthene-d10	9.83	164	233359	20.00	ng	-0.02
64) Phenanthrene-d10	11.32	188	411877	20.00	ng	-0.02
76) Chrysene-d12	13.96	240	248453	20.00	ng	-0.02
87) Perylene-d12	15.42	264	291619	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	566942	90.16	ng	0.00
7) Phenol-d6	6.45	99	750269	94.57	ng	-0.01
23) Nitrobenzene-d5	7.37	82	492023	67.25	ng	-0.02
42) 2,4,6-Tribromophenol	10.63	330	203058	89.75	ng	-0.02
45) 2-Fluorobiphenyl	9.16	172	861163	69.12	ng	-0.01
79) Terphenyl-d14	12.90	244	865083	73.37	ng	-0.02
Target Compounds						
10) Phenol	6.46	94	34316	3.673	ng	Qvalue # 81
50) Dimethylphthalate	9.55	163	111670	7.028	ng	99
71) Phenanthrene	11.35	178	458562	21.778	ng	99
72) Anthracene	11.40	178	98894	4.641	ng	97
75) Fluoranthene	12.54	202	799228	36.257	ng	99
78) Pyrene	12.77	202	696250	37.175	ng	100
81) Benzo(a)anthracene	13.96	228	377495	23.771	ng	99
83) Chrysene	13.99	228	338020	21.925	ng	98
86) Indeno(1,2,3-cd)pyrene	16.89	276	151088	11.668	ng	94
88) Benzo(b)fluoranthene	15.00	252	462972m	27.457	ng	
89) Benzo(k)fluoranthene	15.03	252	127924m	7.789	ng	
90) Benzo(a)pyrene	15.36	252	323916	21.490	ng	100
91) Dibenzo(a,h)anthracene	16.88	278	40263m	3.086	ng	
92) Benzo(g,h,i)perylene	17.33	276	118886	9.278	ng	95

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

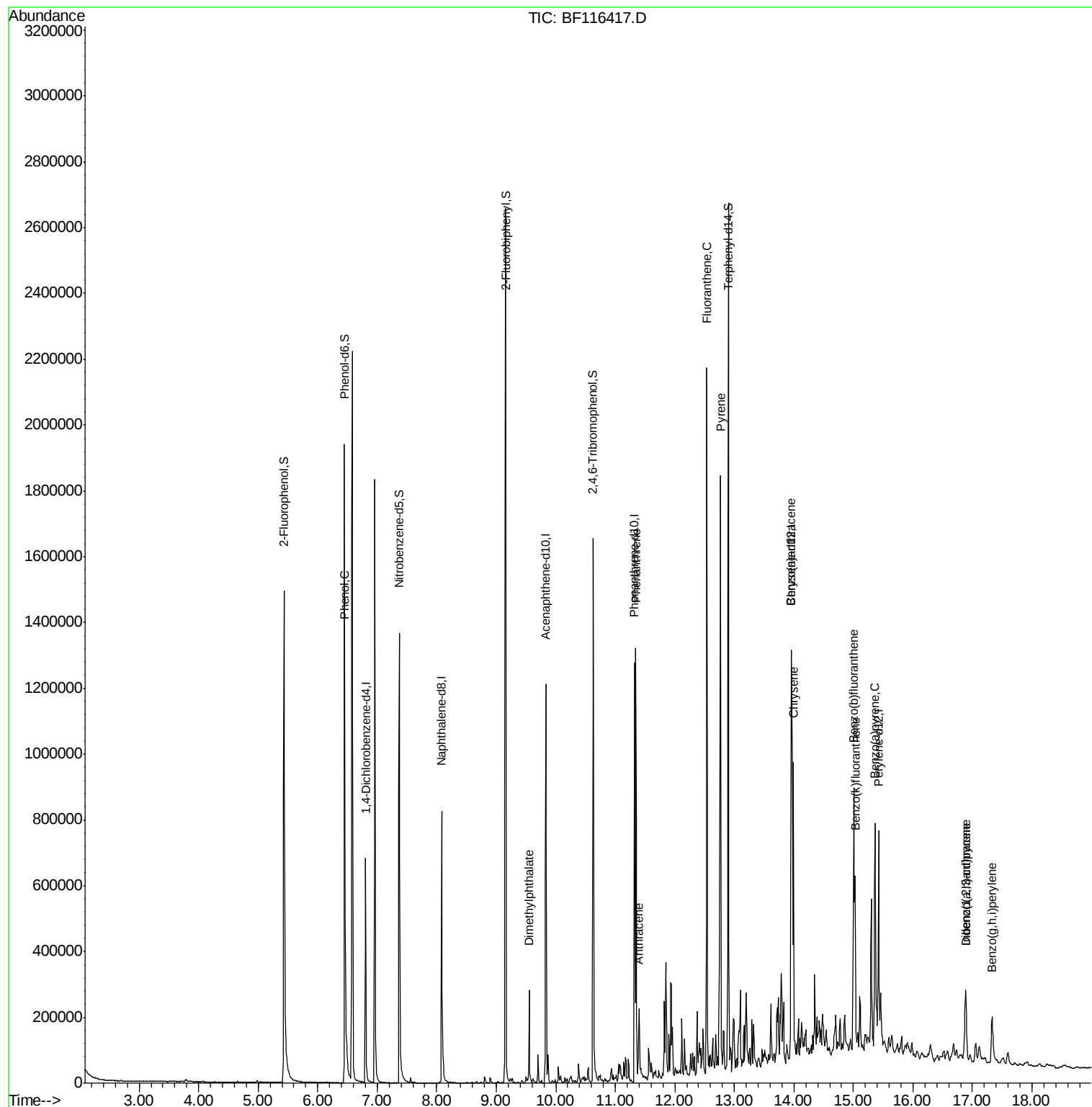
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081919\
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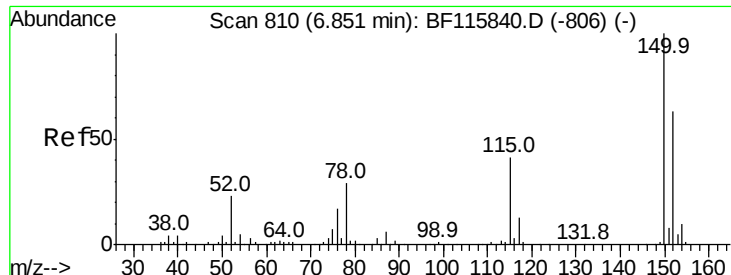
Instrument :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
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#1

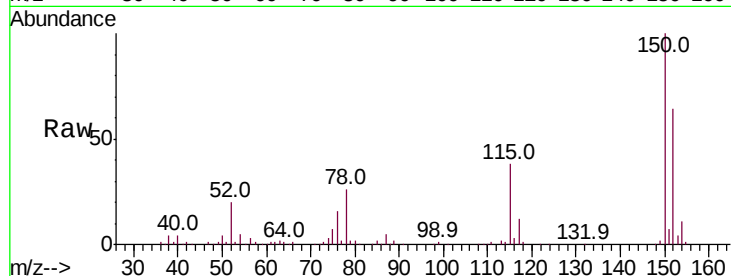
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF116417.D
Acq: 20 Aug 2019 5:38

Instrument :
BNA_F
ClientSampleId :
B-3(3-4)

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	126.2	189.2
115	60.0	49.9	74.9

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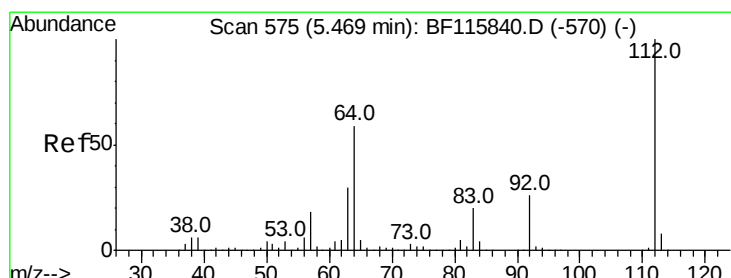
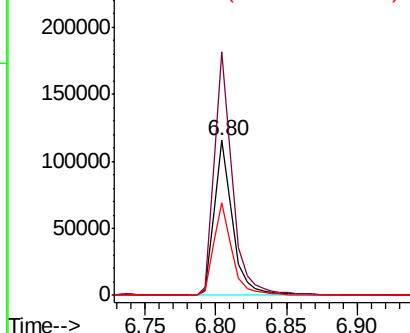
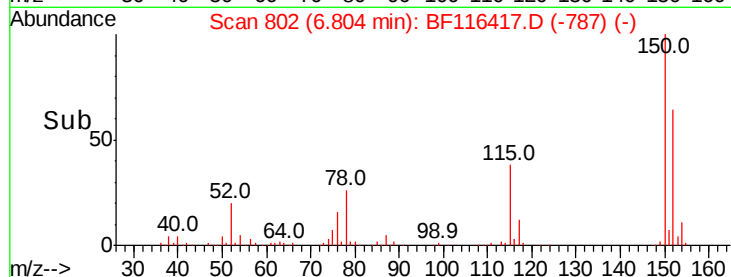


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

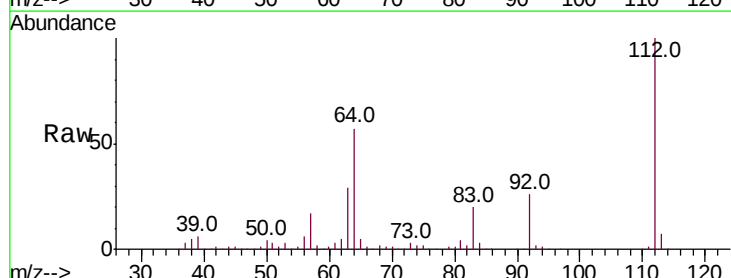
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 90.163 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BF116417.D
Acq: 20 Aug 2019 5:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.4	45.4	68.2
63	29.3	23.7	35.5

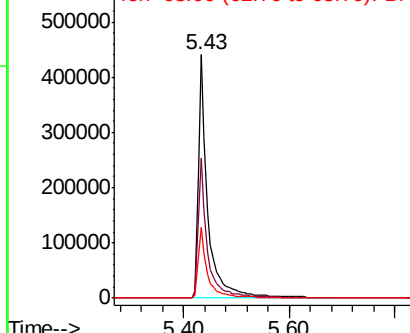
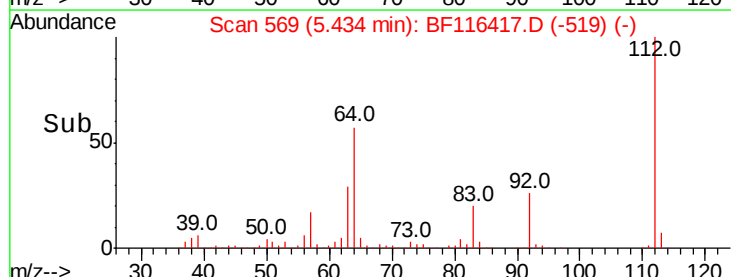


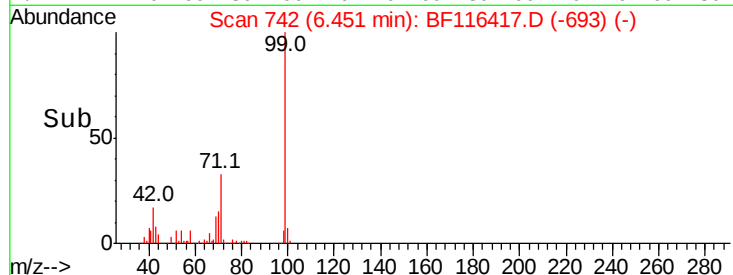
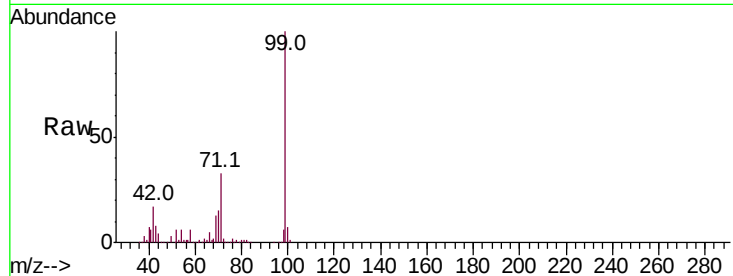
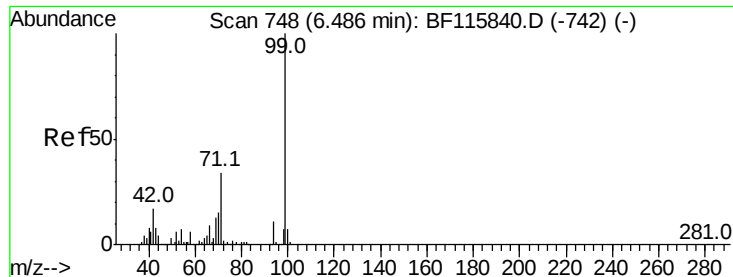
Abundance

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: 94.572 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF116417.D

Acq: 20 Aug 2019 5:38

Instrument :

BNA_F

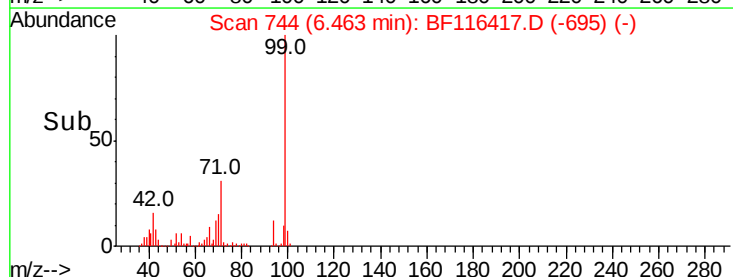
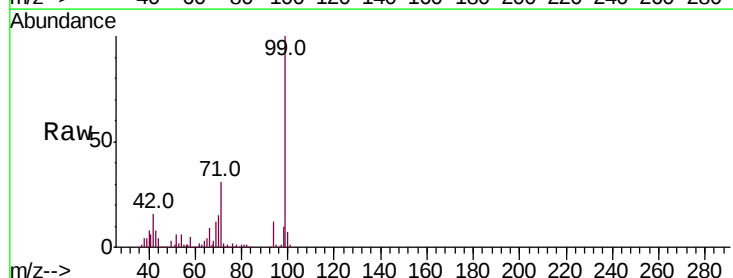
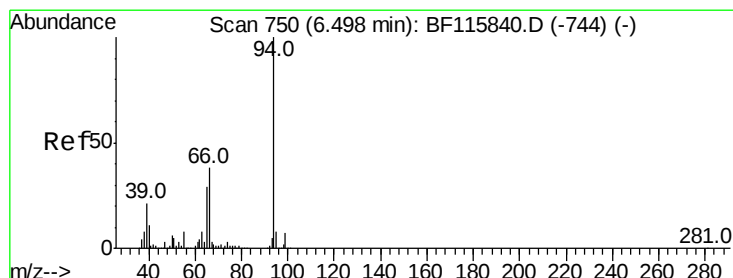
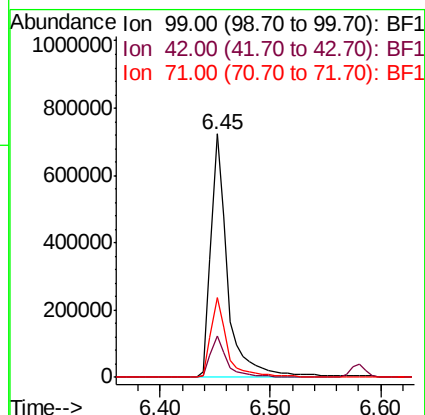
ClientSampled :

B-3(3-4)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		750269		
42	17.0	13.8	20.8		
71	32.9	27.3	40.9		

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#10

Phenol

Concen: 3.673 ng

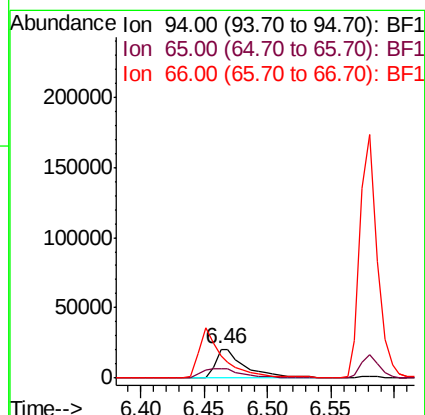
RT: 6.46 min Scan# 744

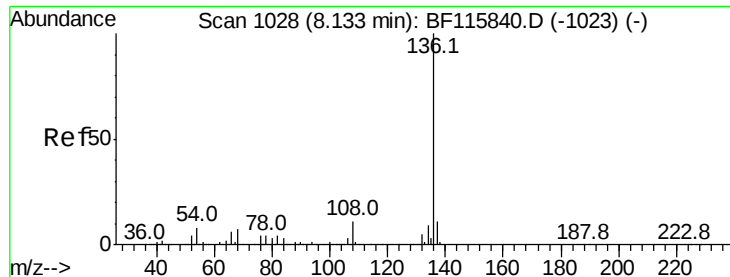
Delta R.T. -0.01 min

Lab File: BF116417.D

Acq: 20 Aug 2019 5:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	100		34316		
65	34.3	16.8	56.8		
66	75.0	34.2	74.2#		





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.02 min

Lab File: BF116417.D

Acq: 20 Aug 2019 5:38

Instrument :

BNA_F

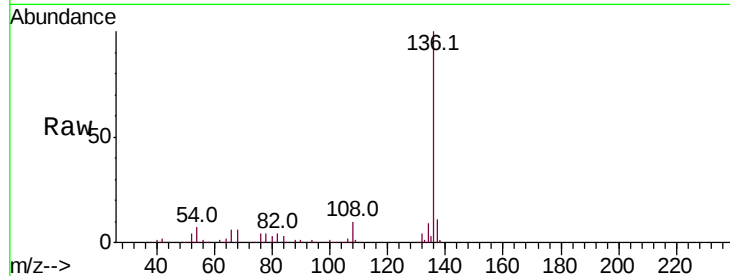
ClientSampleId :

B-3(3-4)

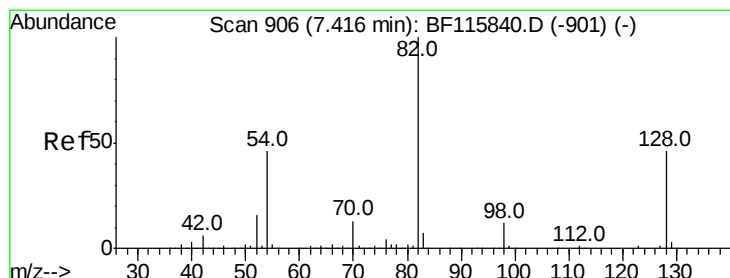
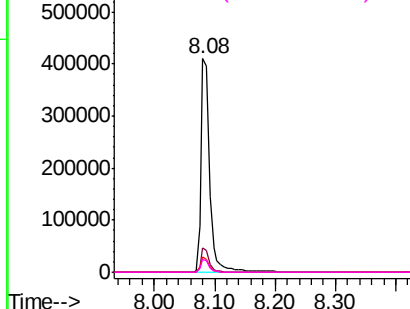
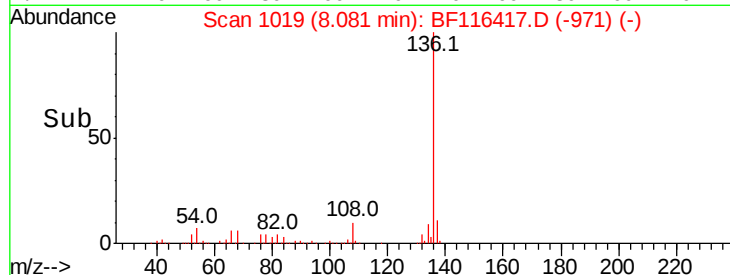
Tot Ion	Ratio	Resp	Lower	Upper
136	100	422345		
137	11.4	9.0	13.4	
54	7.4	5.8	8.6	
68	6.1	5.2	7.8	

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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: 67.246 ng

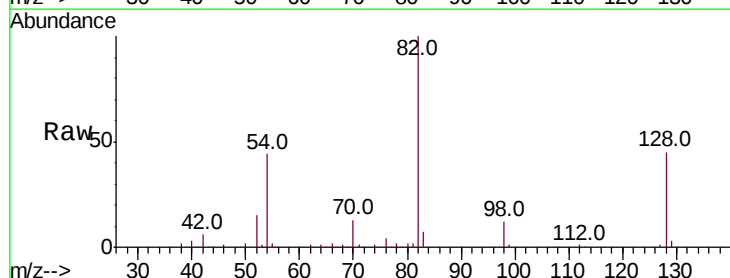
RT: 7.37 min Scan# 898

Delta R.T. -0.02 min

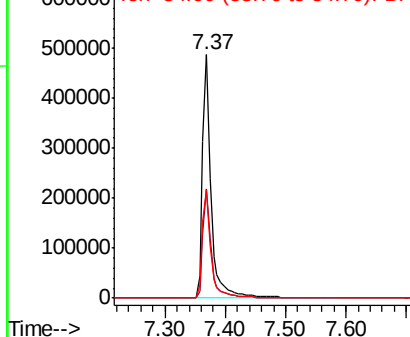
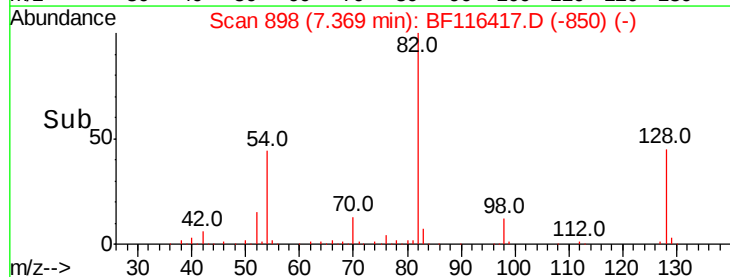
Lab File: BF116417.D

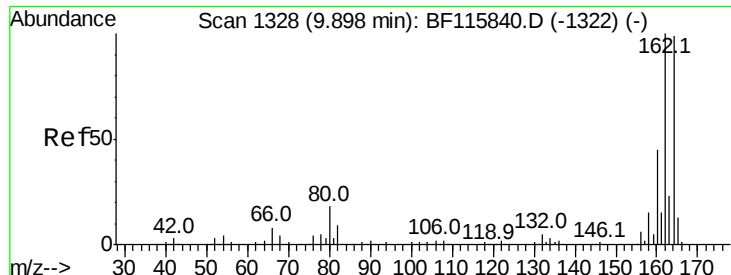
Acq: 20 Aug 2019 5:38

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	492023		
128	44.9	36.5	54.7	
54	44.4	36.0	54.0	



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





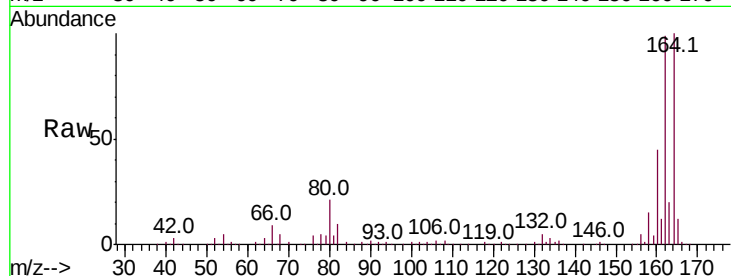
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.02 min
Lab File: BF116417.D
Acq: 20 Aug 2019 5:38

Instrument :
BNA_F
ClientSampleId :
B-3(3-4)

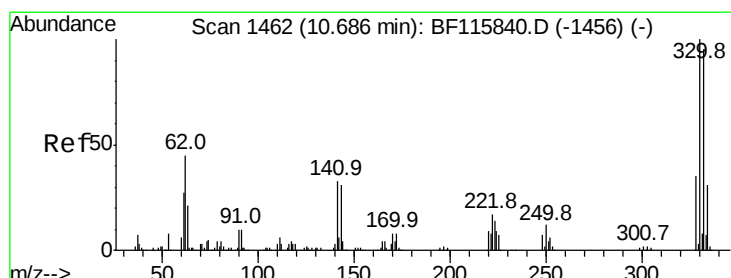
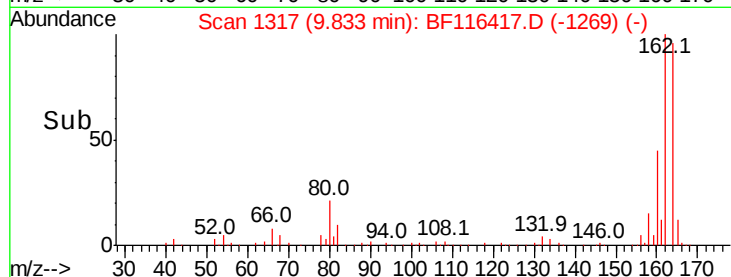
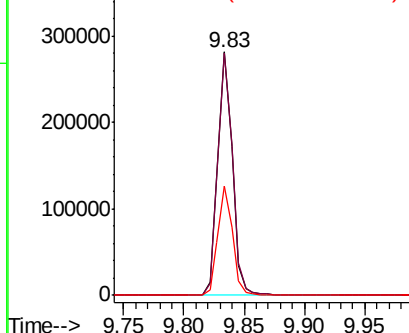
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	99.5	82.6	124.0	
160	44.7	37.6	56.4	

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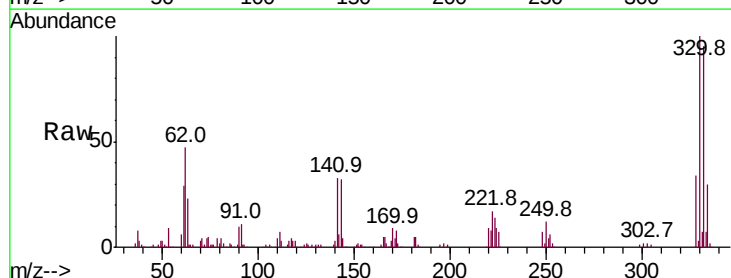


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

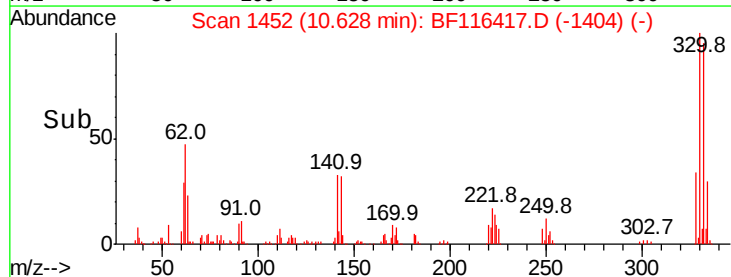
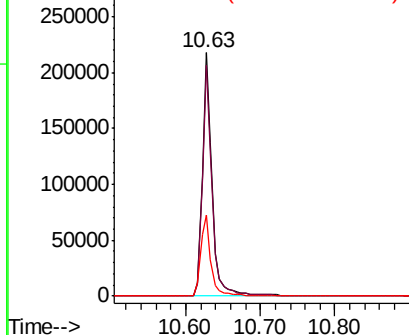


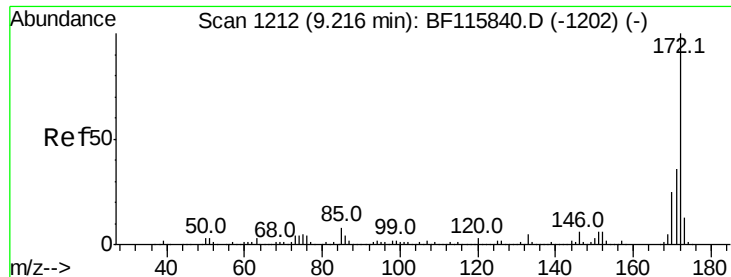
#42
2,4,6-Tribromophenol
Concen: 89.750 ng
RT: 10.63 min Scan# 1452
Delta R.T. -0.02 min
Lab File: BF116417.D
Acq: 20 Aug 2019 5:38

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.8	76.8	115.2	
141	34.8	26.3	39.5	



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





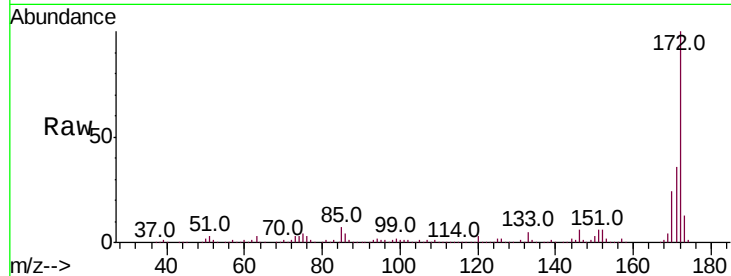
#45
 2-Fluorobiphenyl
 Concen: 69.122 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF116417.D
 Acq: 20 Aug 2019 5:38

Instrument :
 BNA_F
 ClientSampleId :
 B-3(3-4)

Tot Ion	Ratio	Resp	Lower	Upper
172	100	861163		
171	36.2		29.6	44.4
170	24.4		20.1	30.1

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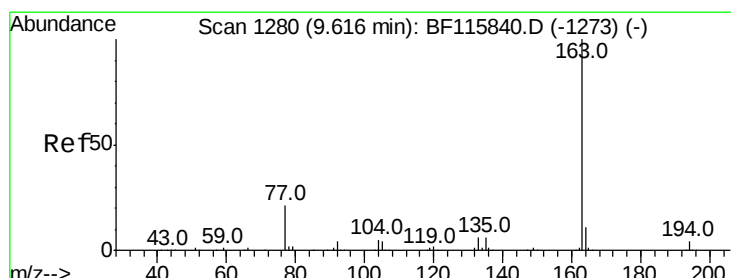
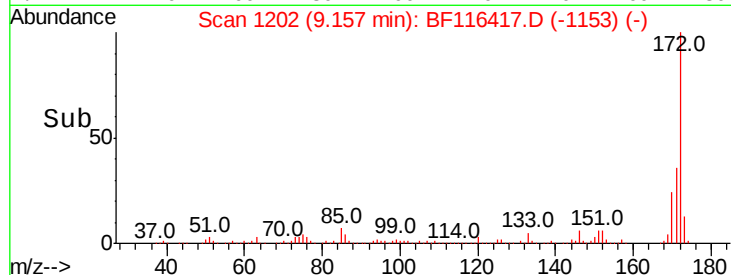
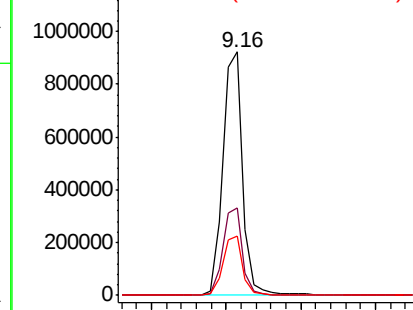


Abundance

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



#50
 Dimethylphthalate
 Concen: 7.028 ng
 RT: 9.55 min Scan# 1269
 Delta R.T. -0.02 min
 Lab File: BF116417.D
 Acq: 20 Aug 2019 5:38

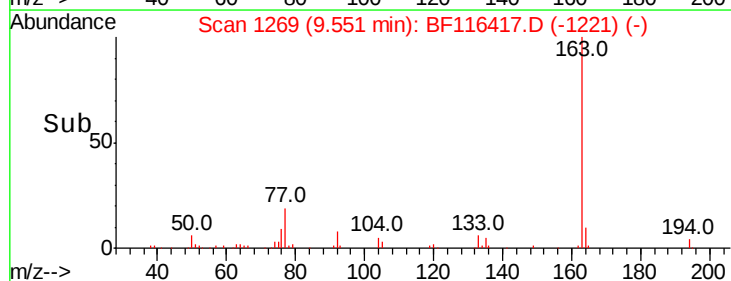
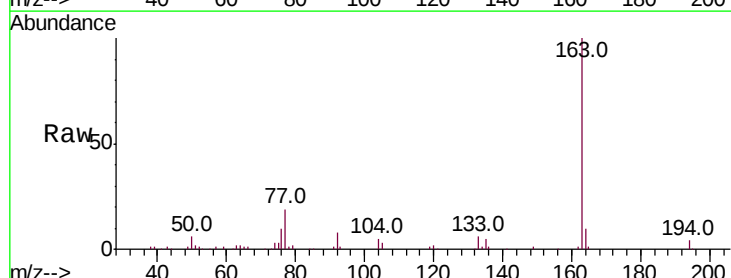
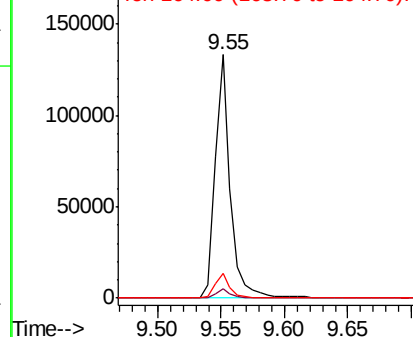
Tgt Ion	Ratio	Resp	Lower	Upper
163	100	111670		
194	3.9		3.0	4.6
164	10.0		8.4	12.6

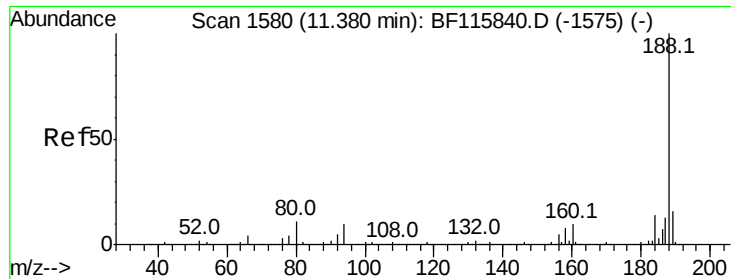
Abundance

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: 11.32 min Scan# 1570

Delta R.T. -0.02 min

Lab File: BF116417.D

Acq: 20 Aug 2019 5:38

Instrument :

BNA_F

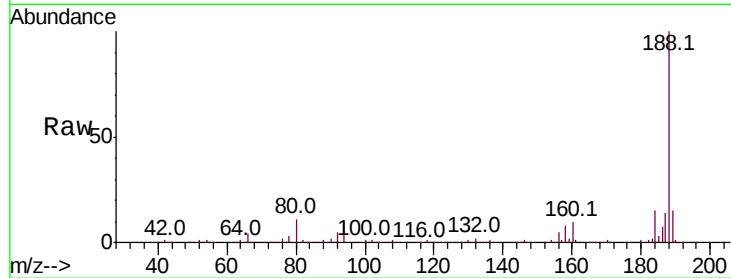
ClientSampleId :

B-3(3-4)

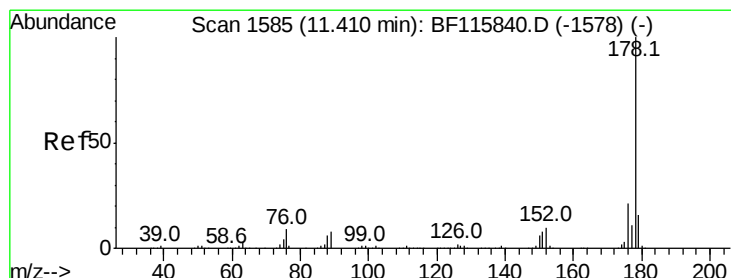
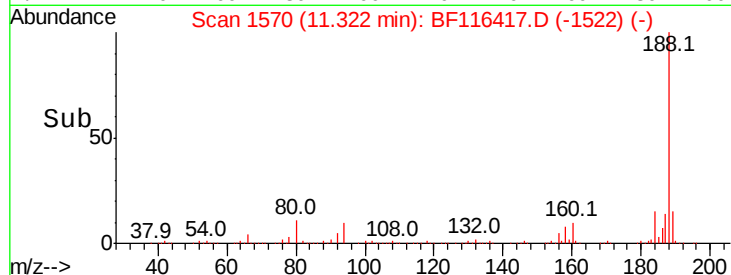
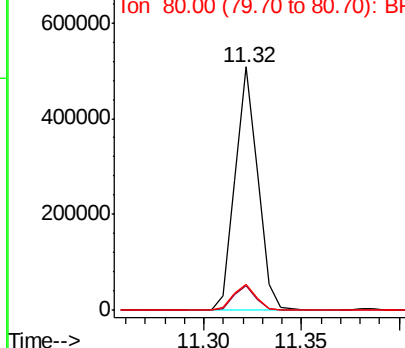
Tot Ion	188	Resp	411877
Ion Ratio	Lower	Upper	
188	100		
94	10.0	8.1	12.1
80	10.9	8.7	13.1

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Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 21.778 ng

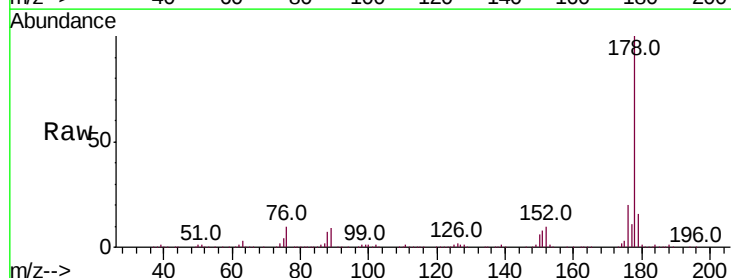
RT: 11.35 min Scan# 1574

Delta R.T. -0.02 min

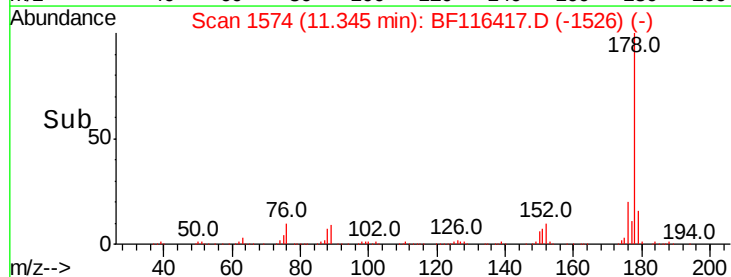
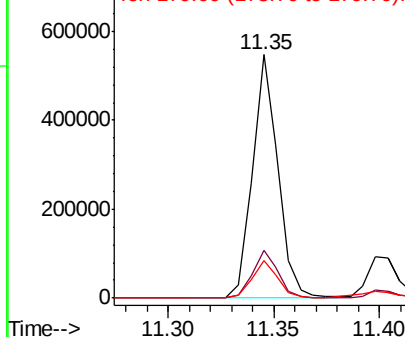
Lab File: BF116417.D

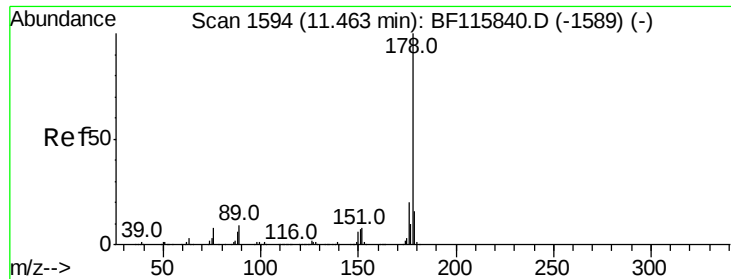
Acq: 20 Aug 2019 5:38

Tgt Ion	178	Resp	458562
Ion Ratio	Lower	Upper	
178	100		
176	19.6	16.6	24.8
179	15.6	12.5	18.7



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





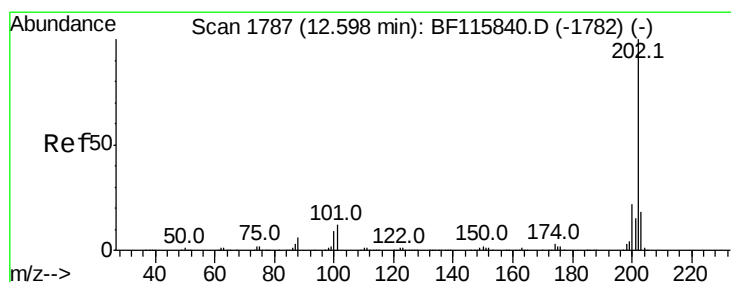
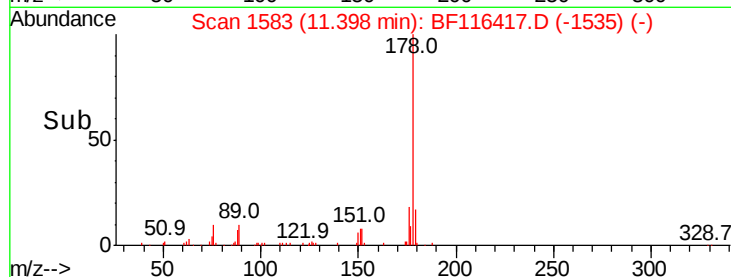
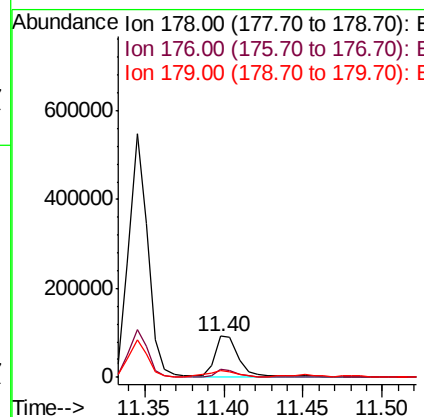
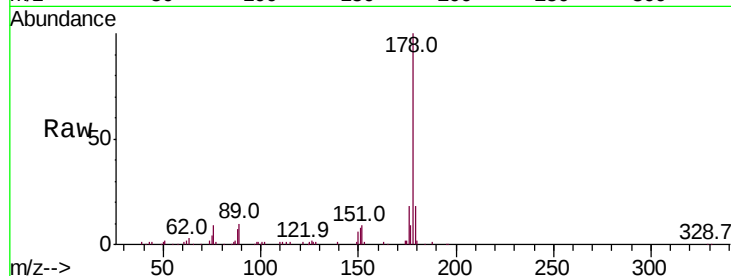
#72
 Anthracene
 Concen: 4.641 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.02 min
 Lab File: BF116417.D
 Acq: 20 Aug 2019 5:38

Instrument :
 BNA_F
 ClientSampleId :
 B-3(3-4)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.7	23.5
179	17.5	13.0	19.6

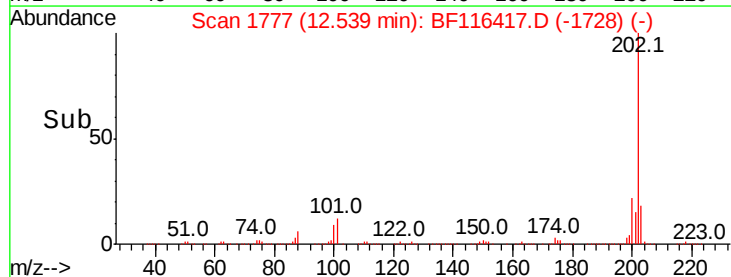
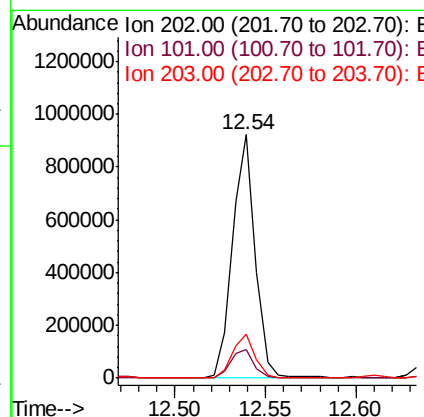
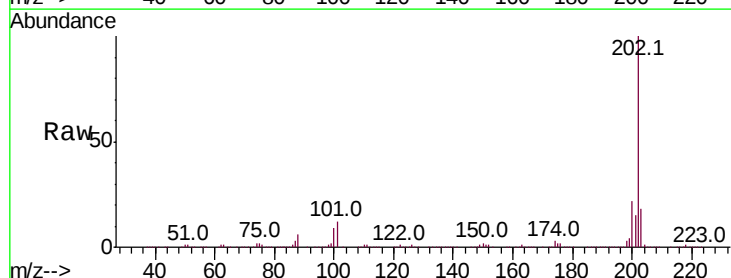
Manual Integrations
 APPROVED

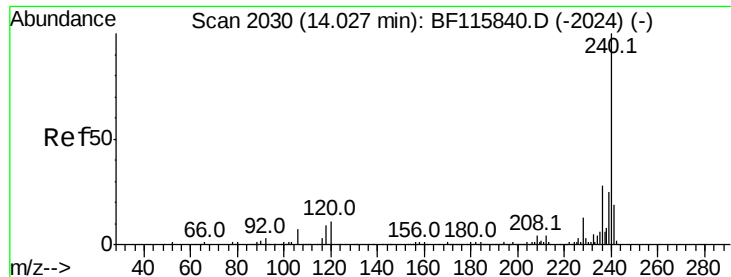
mohammad
 8/22/2019 12:46:01 PM



#75
 Fluoranthene
 Concen: 36.257 ng
 RT: 12.54 min Scan# 1777
 Delta R.T. -0.01 min
 Lab File: BF116417.D
 Acq: 20 Aug 2019 5:38

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.2
203	17.8	0.0	37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF116417.D

Acq: 20 Aug 2019 5:38

Instrument :

BNA_F

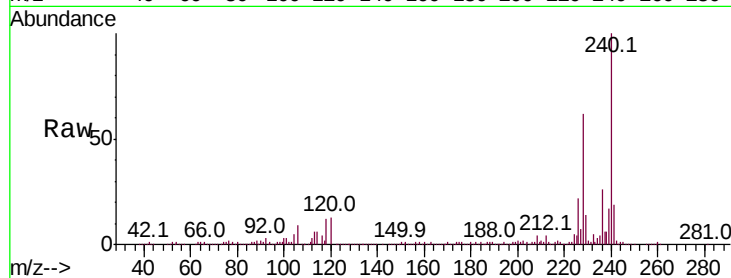
ClientSampleId :

B-3(3-4)

Tot Ion	Ratio	Resp	Lower	Upper
240	100	248453		
120	13.1	10.7	16.1	
236	26.5	22.2	33.2	

Manual Integrations
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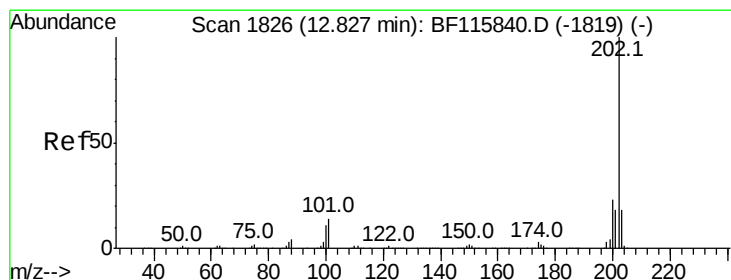
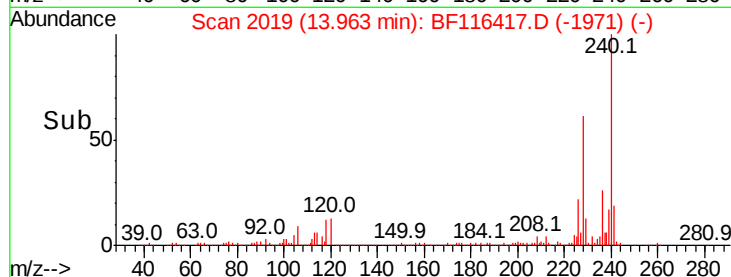
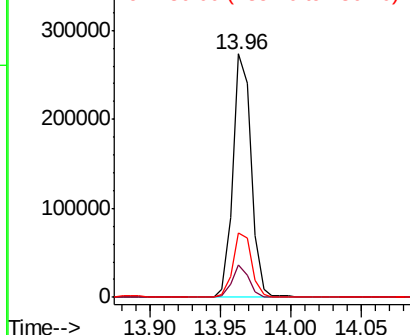
mohammad
8/22/2019 12:46:01 PM



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

Pyrene

Concen: 37.175 ng

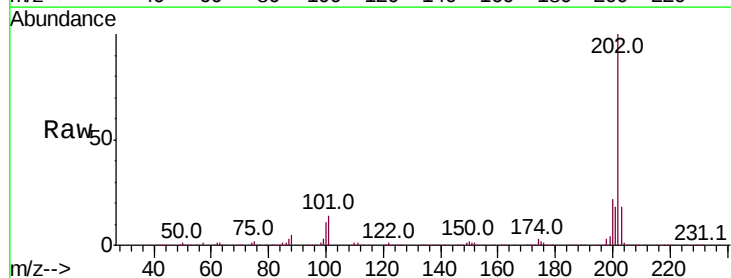
RT: 12.77 min Scan# 1816

Delta R.T. -0.01 min

Lab File: BF116417.D

Acq: 20 Aug 2019 5:38

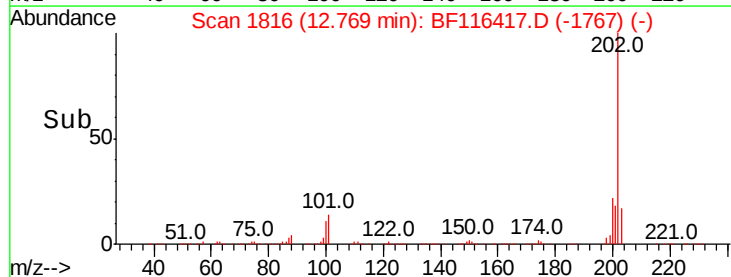
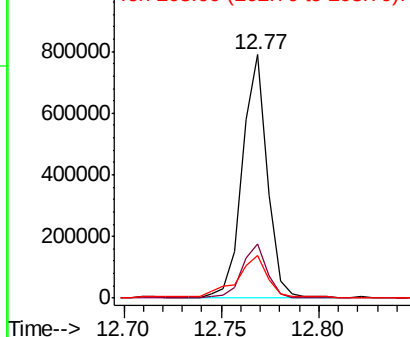
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	696250		
200	22.3	18.0	27.0	
203	17.6	14.1	21.1	

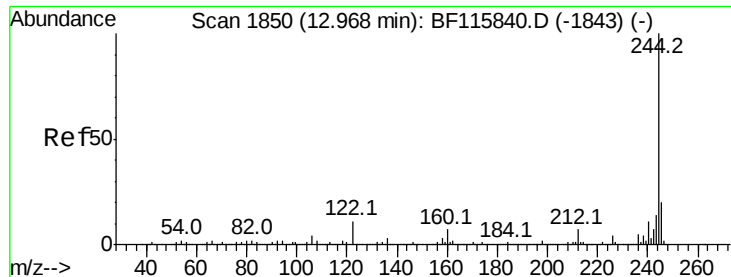


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





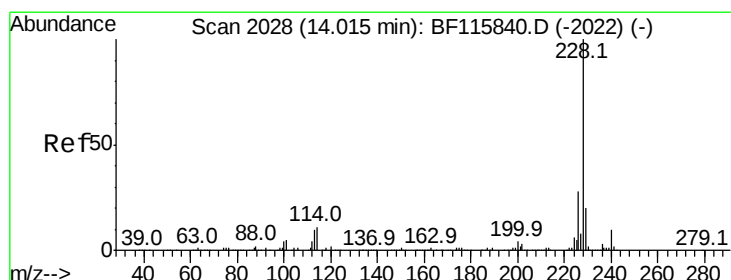
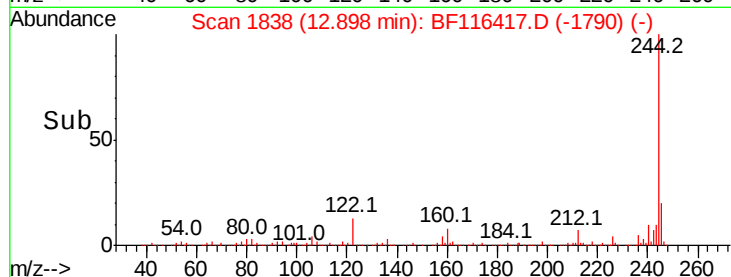
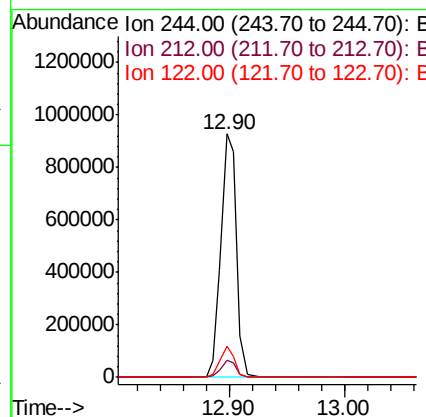
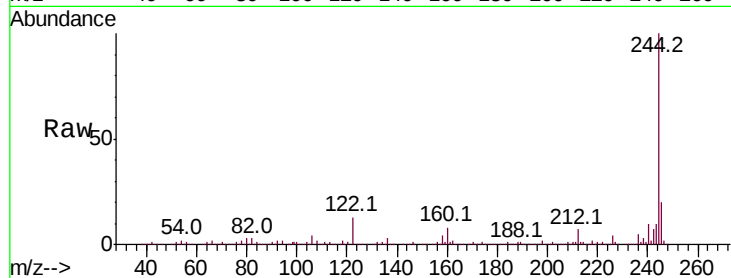
#79
 Terphenyl-d14
 Concen: 73.369 ng
 RT: 12.90 min Scan# 1838
 Delta R.T. -0.02 min
 Lab File: BF116417.D
 Acq: 20 Aug 2019 5:38

Instrument :
 BNA_F
 ClientSampleId :
 B-3(3-4)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	12.9	9.0	13.4

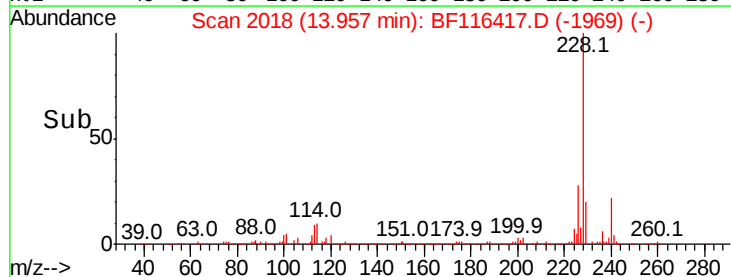
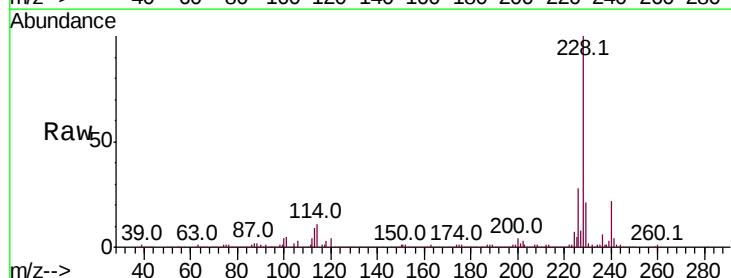
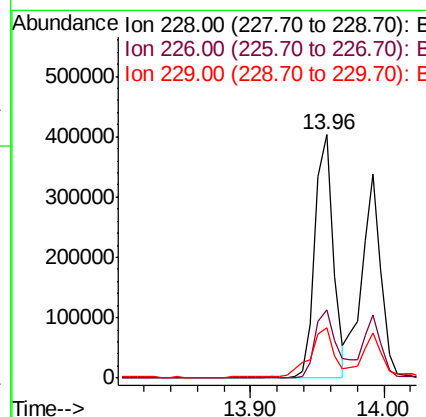
Manual Integrations
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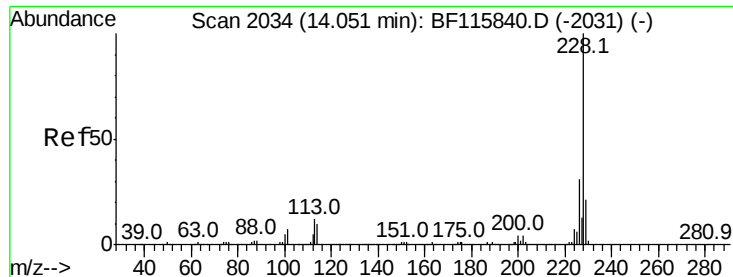
mohammad
 8/22/2019 12:46:01 PM



#81
 Benzo(a)anthracene
 Concen: 23.771 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BF116417.D
 Acq: 20 Aug 2019 5:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.7	34.1
229	20.9	16.2	24.4





#83

Chrysene

Concen: 21.925 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF116417.D

Acq: 20 Aug 2019 5:38

Instrument :

BNA_F

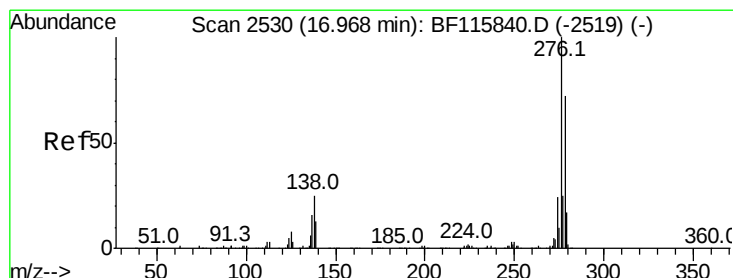
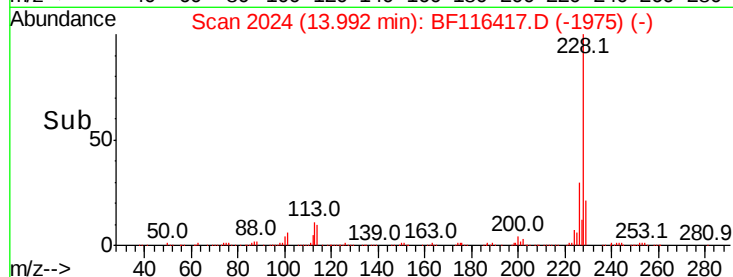
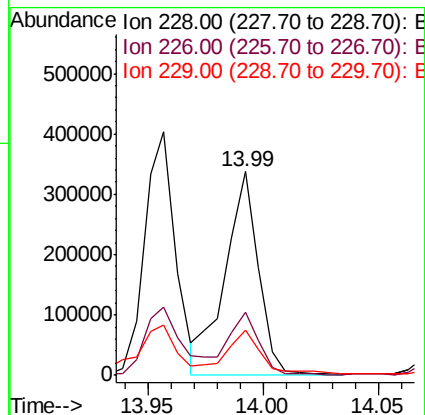
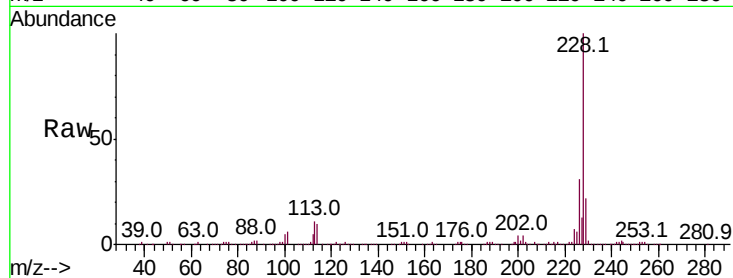
ClientSampled :

B-3(3-4)

Tot Ion:	228	Resp:	338020
Ion Ratio	Lower	Upper	
228	100		
226	30.8	25.5	38.3
229	22.2	16.6	24.8

Manual Integrations
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#86

Indeno(1,2,3-cd)pyrene

Concen: 11.668 ng

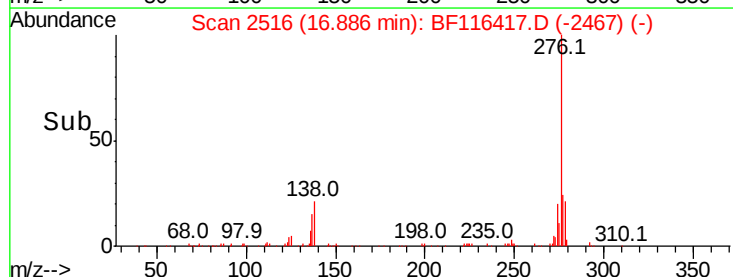
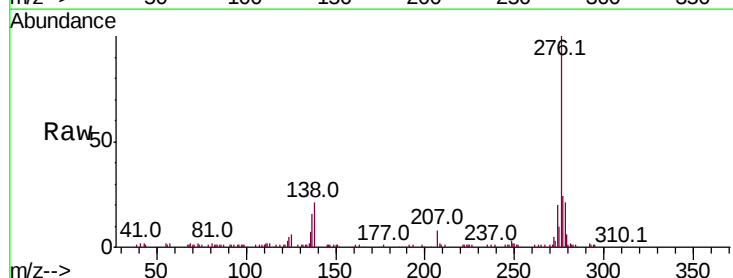
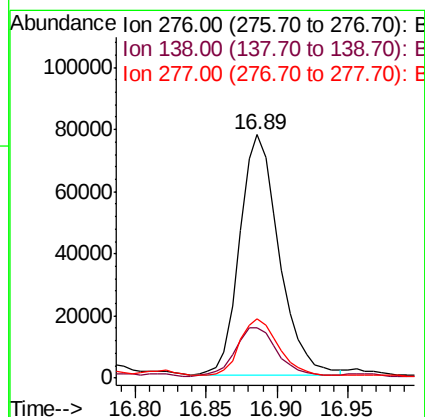
RT: 16.89 min Scan# 2516

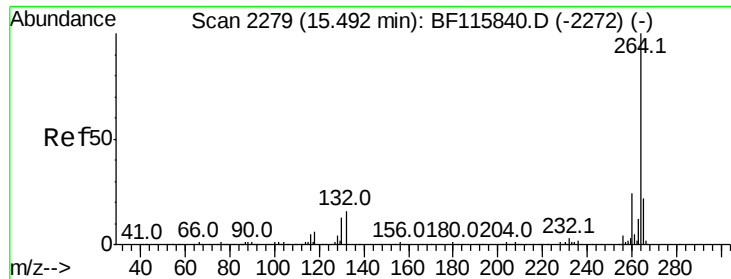
Delta R.T. -0.01 min

Lab File: BF116417.D

Acq: 20 Aug 2019 5:38

Tgt Ion:	276	Resp:	151088
Ion Ratio	Lower	Upper	
276	100		
138	21.8	20.4	30.6
277	22.8	20.0	30.0





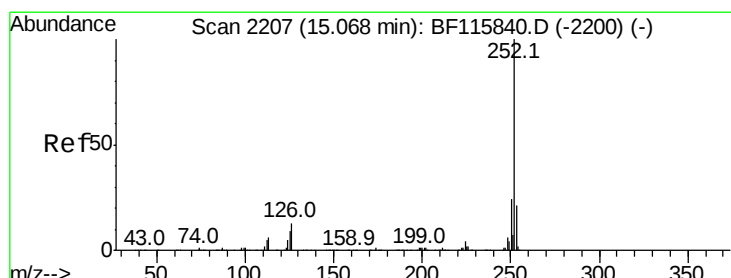
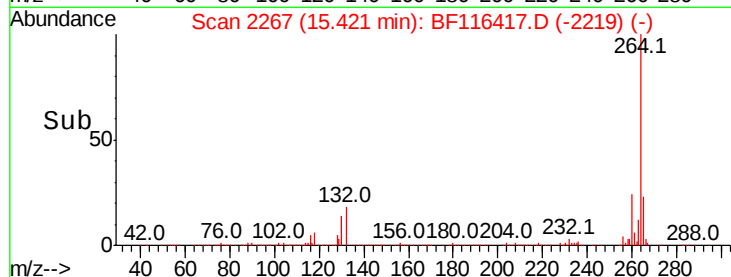
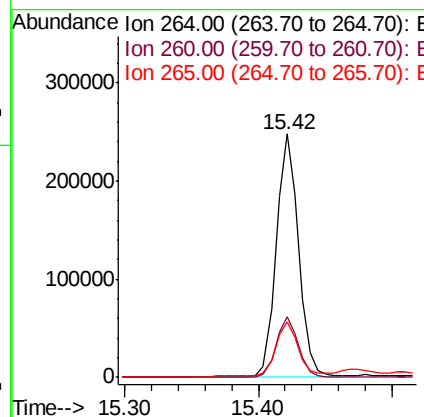
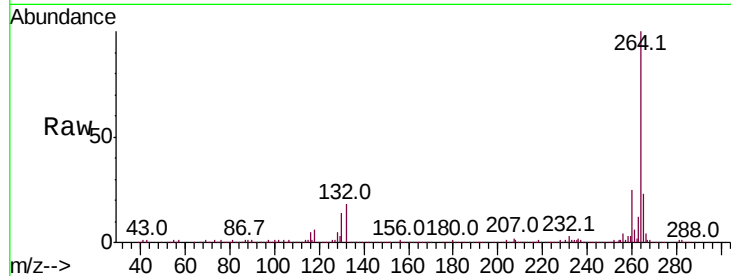
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.02 min
Lab File: BF116417.D
Acq: 20 Aug 2019 5:38

Instrument :
BNA_F
ClientSampleId :
B-3(3-4)

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.7	29.5
265	22.9	17.4	26.0

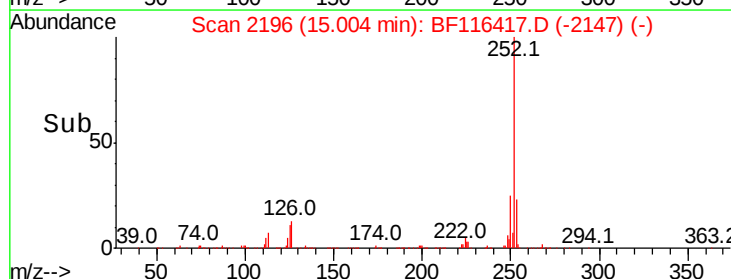
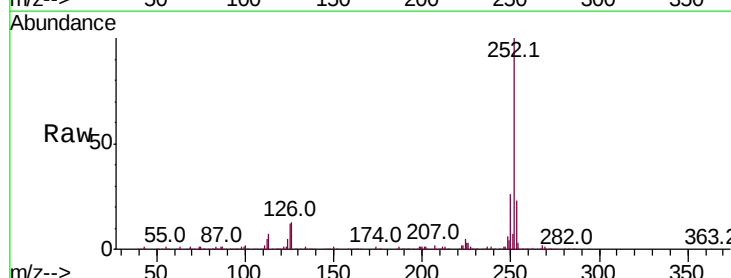
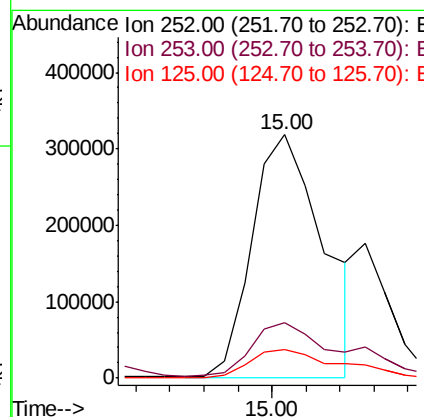
Manual Integrations
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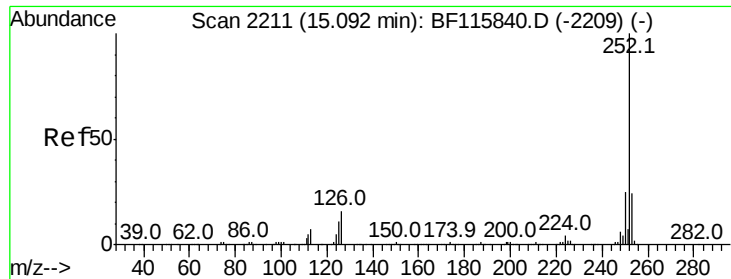
mohammad
8/22/2019 12:46:01 PM



#88
Benzo(b)fluoranthene
Concen: 27.457 ng m
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF116417.D
Acq: 20 Aug 2019 5:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	11.5	8.4	12.6





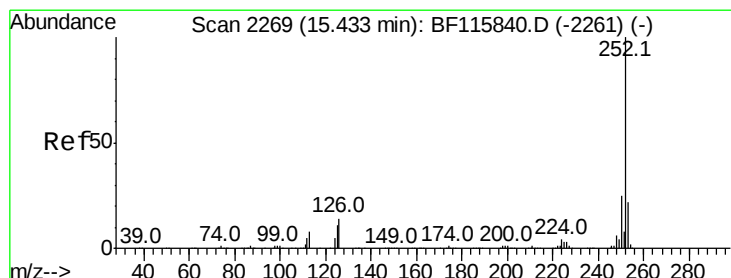
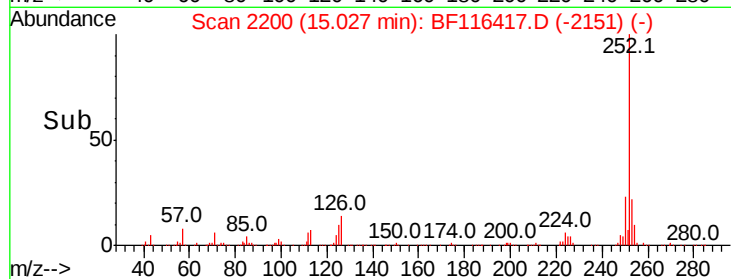
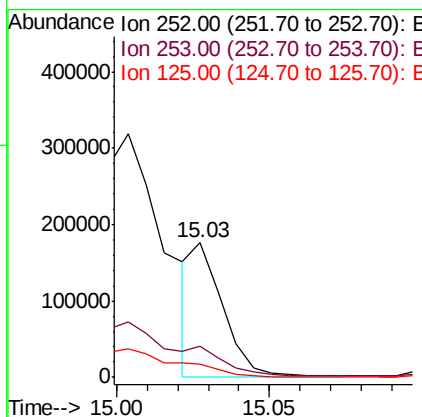
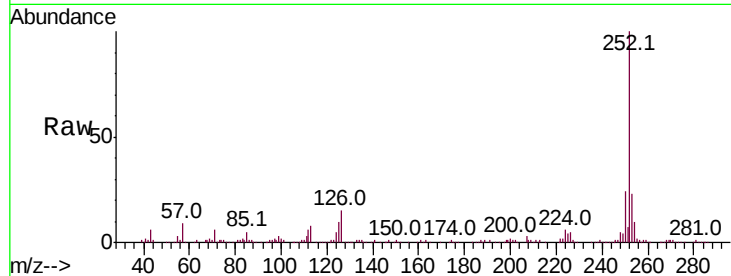
#89
Benzo(k)fluoranthene
Concen: 7.789 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.01 min
Lab File: BF116417.D
Acq: 20 Aug 2019 5:38

Instrument :
BNA_F
ClientSampleId :
B-3(3-4)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.8
125	10.1	7.7	11.5

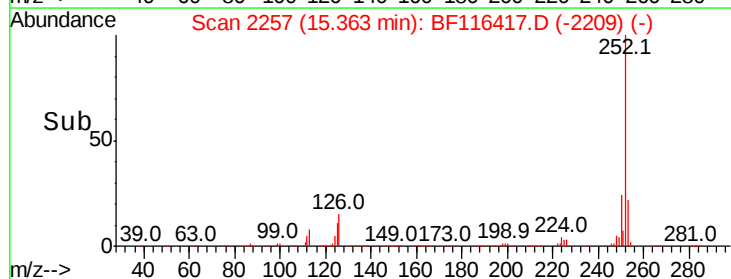
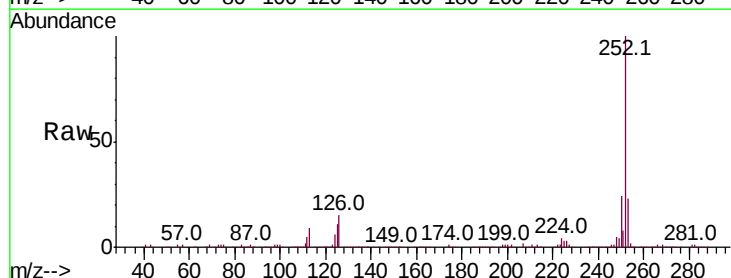
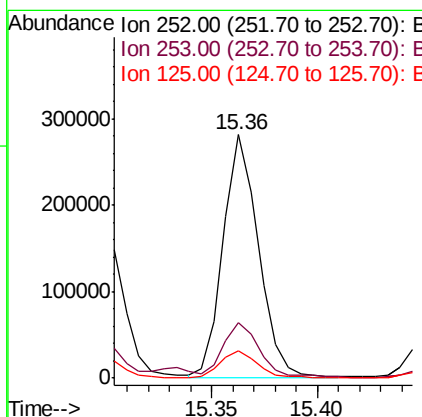
Manual Integrations
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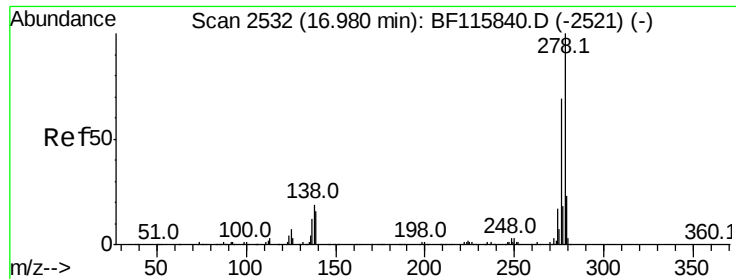
mohammad
8/22/2019 12:46:01 PM



#90
Benzo(a)pyrene
Concen: 21.490 ng
RT: 15.36 min Scan# 2257
Delta R.T. -0.02 min
Lab File: BF116417.D
Acq: 20 Aug 2019 5:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.0	27.0
125	11.2	8.9	13.3





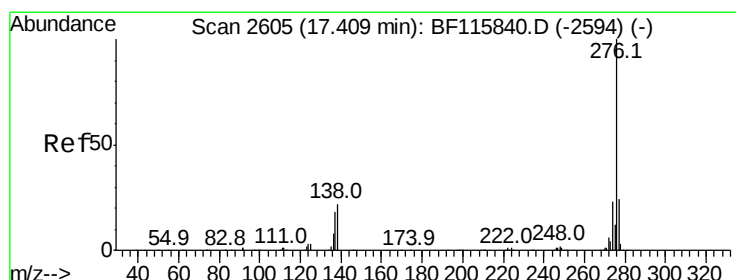
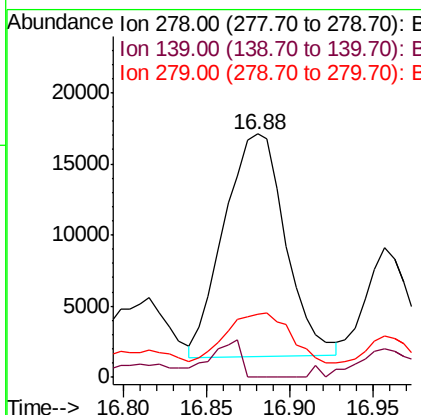
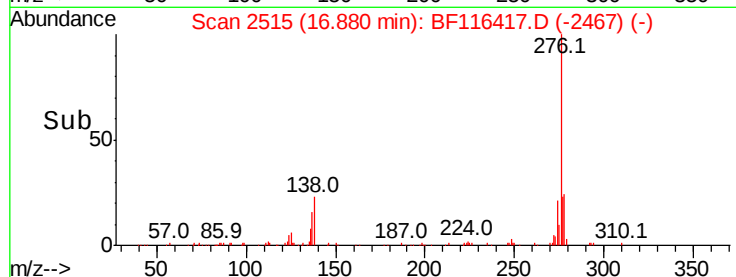
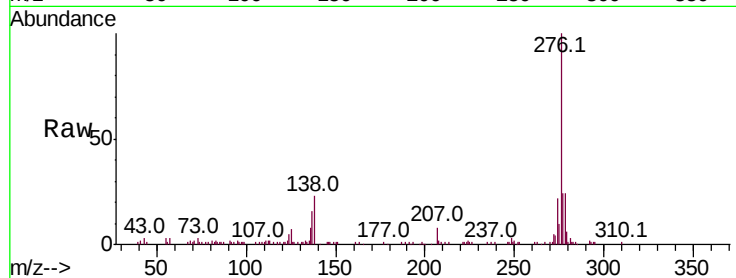
#91
Dibenzo(a,h)anthracene
Concen: 3.086 ng/mL
RT: 16.88 min Scan# 2515
Delta R.T. -0.02 min
Lab File: BF116417.D
Acq: 20 Aug 2019 5:38

Instrument :
BNA_F
ClientSampleId :
B-3(3-4)

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.8	19.2
279	26.0	18.8	28.2

Manual Integrations
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mohammad
8/22/2019 12:46:01 PM



#92
Benzo(g,h,i)perylene
Concen: 9.278 ng/mL
RT: 17.33 min Scan# 2591
Delta R.T. -0.01 min
Lab File: BF116417.D
Acq: 20 Aug 2019 5:38

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.1	18.4	27.6
138	23.9	17.0	25.6

