

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083019\
 Data File : BF116677.D
 Acq On : 31 Aug 2019 3:46
 Operator : HP/JU
 Sample : K4527-20
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T9-12-13-Q2-Q4

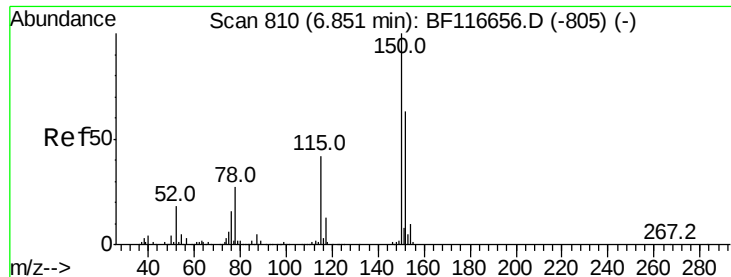
Manual Integrations
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 8/31/2019 2:45:36 PM

Quant Time: Aug 31 06:42:48 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	110383	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	430197	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	214287	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	296973	20.00	ng	0.00
76) Chrysene-d12	14.00	240	170738	20.00	ng	0.00
87) Perylene-d12	15.46	264	228707	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	528584	77.58	ng	0.00
7) Phenol-d6	6.47	99	854034	95.46	ng	0.00
23) Nitrobenzene-d5	7.40	82	542423	71.98	ng	0.00
42) 2,4,6-Tribromophenol	10.66	330	78964	55.12	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	875428	68.91	ng	0.00
79) Terphenyl-d14	12.95	244	601161	65.14	ng	0.00
Target Compounds						
10) Phenol	6.49	94	41664	4.205	ng	89
15) Benzyl Alcohol	6.98	79	19708	2.714	ng	93
31) Naphthalene	8.15	128	148065	7.238	ng	100
37) 2-Methylnaphthalene	8.84	142	289161	21.245	ng	97
38) 1-Methylnaphthalene	8.94	142	185519	14.439	ng	100
50) Dimethylphthalate	9.59	163	131690	8.901	ng	98
71) Phenanthrene	11.39	178	229011	13.853	ng	98
74) Di-n-butylphthalate	11.93	149	108911	5.359	ng	# 94
75) Fluoranthene	12.58	202	309288	19.037	ng	81
78) Pyrene	12.81	202	269439	17.753	ng	# 89
81) Benzo(a)anthracene	13.99	228	126234	11.682	ng	94
83) Chrysene	14.03	228	134044	12.040	ng	# 94
86) Indeno(1,2,3-cd)pyrene	16.90	276	126675	14.166	ng	98
88) Benzo(b)fluoranthene	15.04	252	251435m	18.184	ng	
89) Benzo(k)fluoranthene	15.06	252	59349m	4.707	ng	
90) Benzo(a)pyrene	15.40	252	161189	13.399	ng	# 90
91) Dibenzo(a,h)anthracene	16.91	278	31498	2.991	ng	# 53
92) Benzo(g,h,i)perylene	17.34	276	126970	11.823	ng	# 89

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



#1

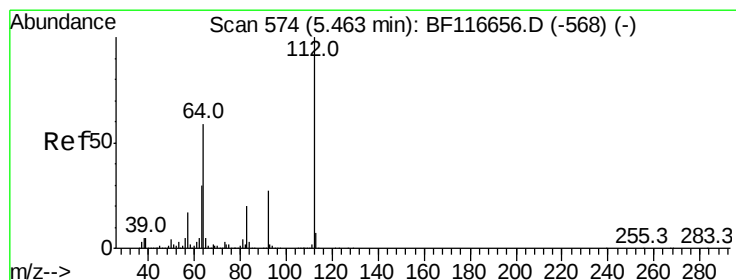
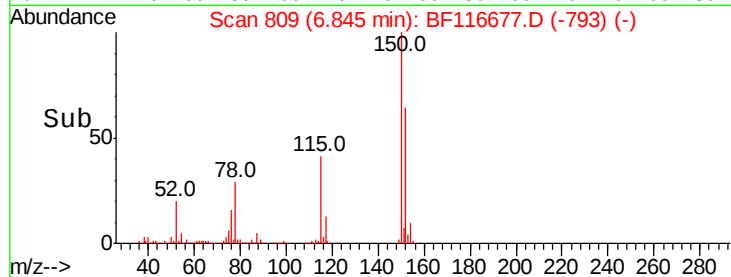
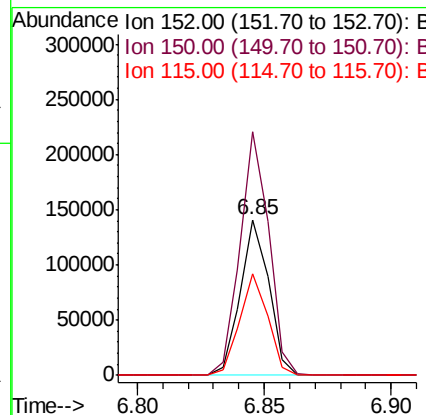
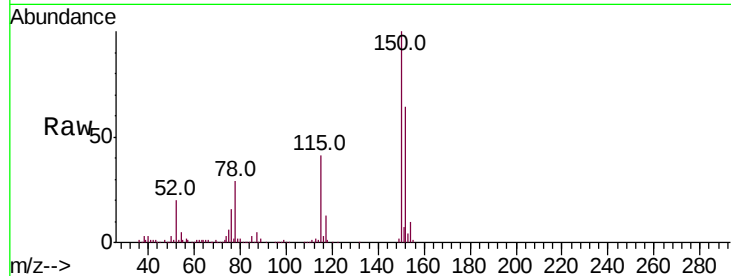
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Instrument :
BNA_F
ClientSampleId :
T9-12-13-Q2-Q4

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	124.4	186.6
115	64.8	49.9	74.9

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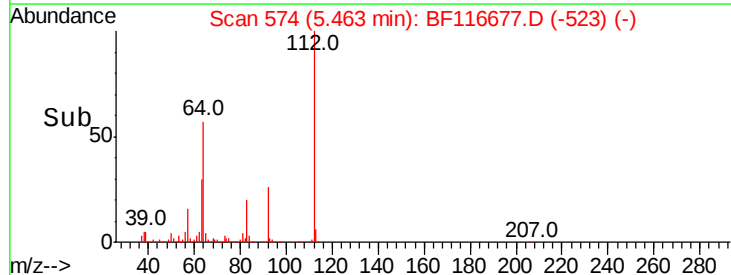
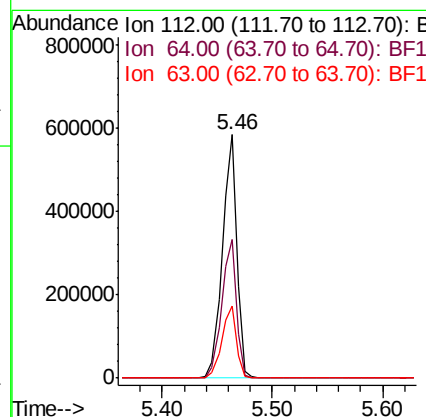
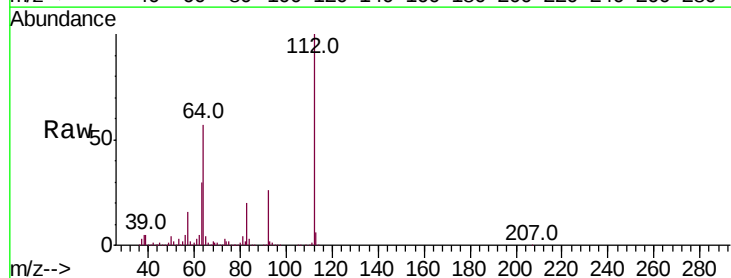
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#5

2-Fluorophenol
Concen: 77.579 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.9	47.1	70.7
63	29.8	24.9	37.3





#7

Phenol-d6

Concen: 95.456 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Instrument :

BNA_F

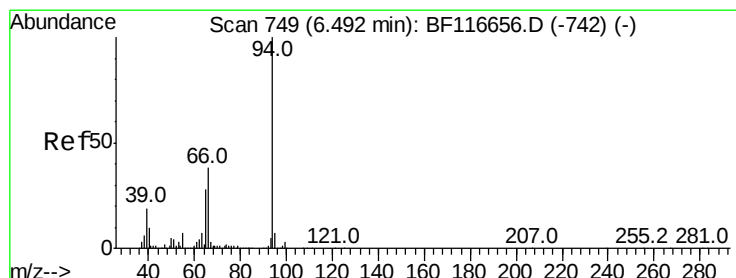
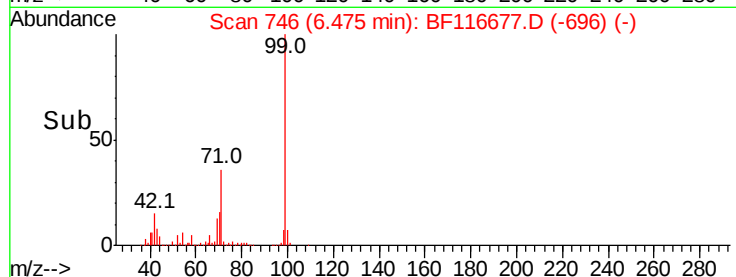
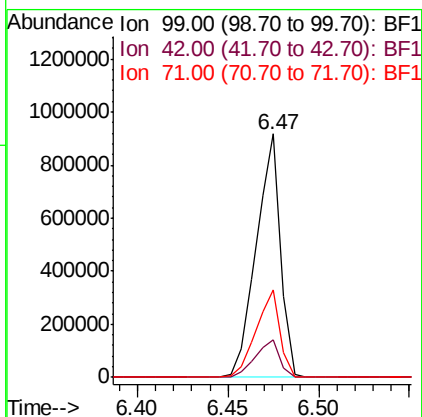
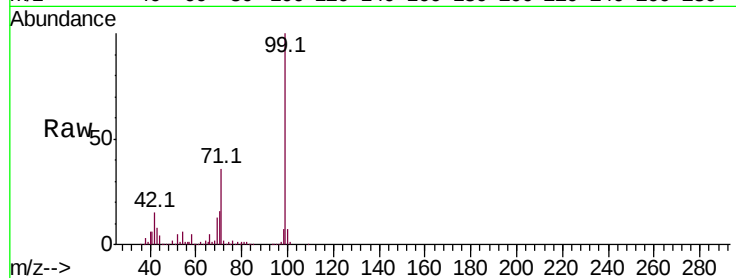
ClientSampleId :

T9-12-13-Q2-Q4

Tot Ion:	99	Resp:	854034
Ion Ratio	Lower	Upper	
99	100		
42	15.4	13.7	20.5
71	35.9	30.8	46.2

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#10

Phenol

Concen: 4.205 ng

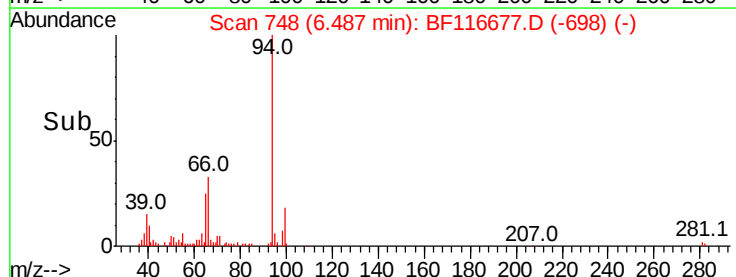
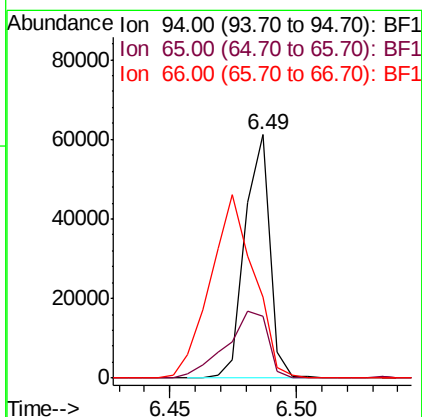
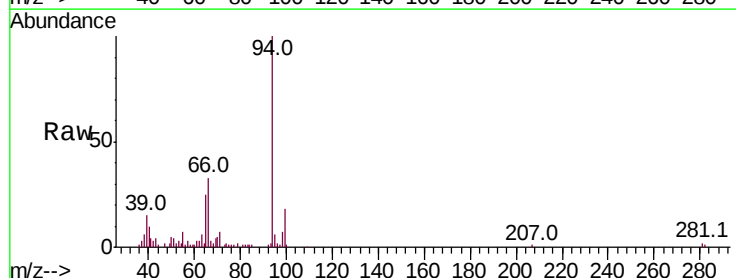
RT: 6.49 min Scan# 748

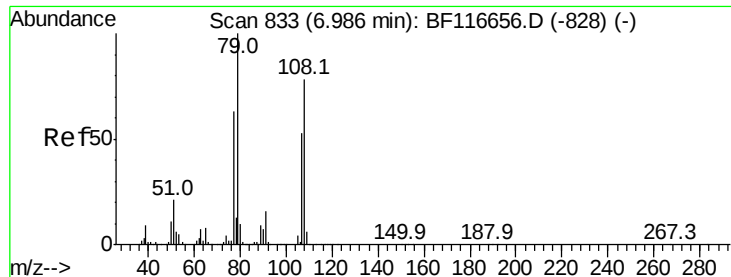
Delta R.T. -0.01 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Tgt Ion:	94	Resp:	41664
Ion Ratio	Lower	Upper	
94	100		
65	25.5	10.8	50.8
66	33.1	21.1	61.1





#15

Benzyl Alcohol

Concen: 2.714 ng

RT: 6.98 min Scan# 832

Delta R.T. -0.01 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Instrument :

BNA_F

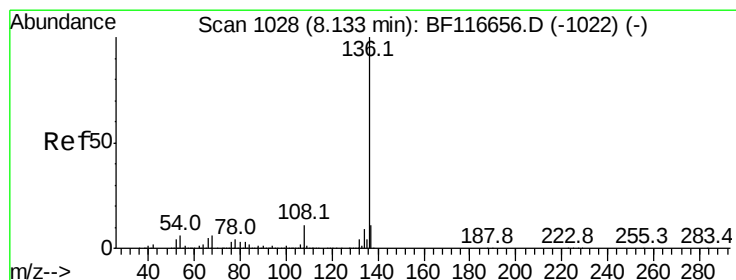
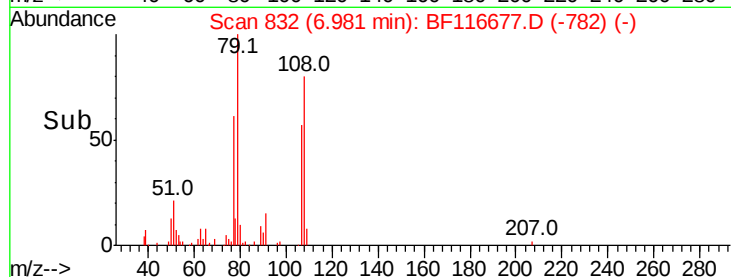
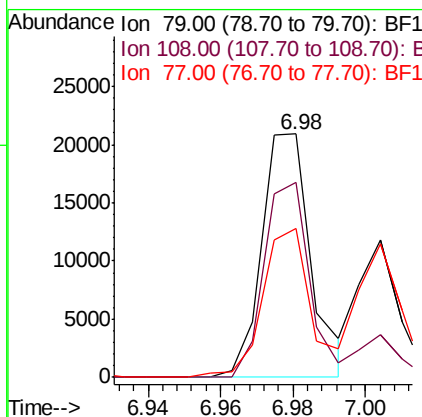
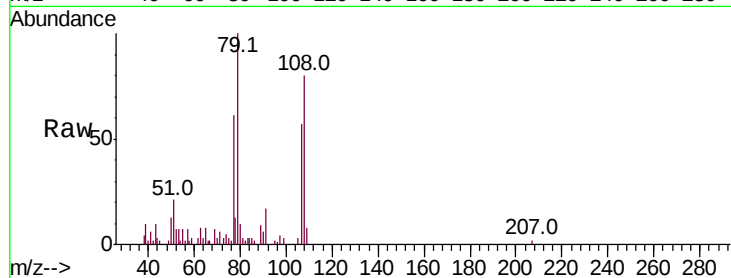
ClientSampleId :

T9-12-13-Q2-Q4

Tot Ion:	79	Resp:	19708
Ion Ratio	Lower	Upper	
79	100		
108	80.3	59.2	88.8
77	61.3	53.0	79.4

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#21

Naphthalene-d8

Concen: 20.000 ng

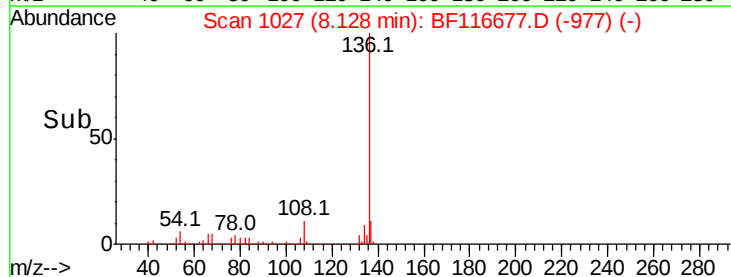
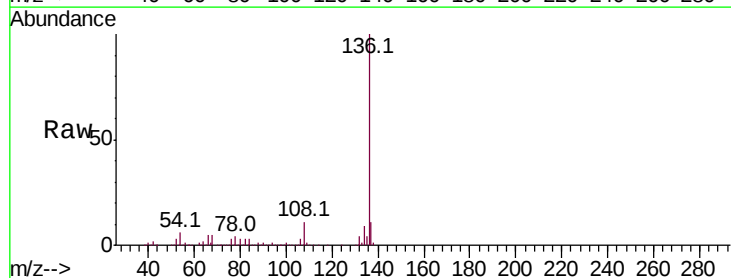
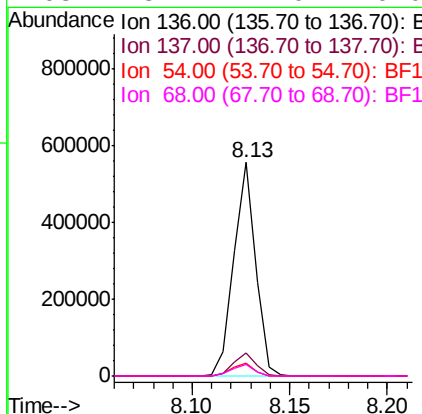
RT: 8.13 min Scan# 1027

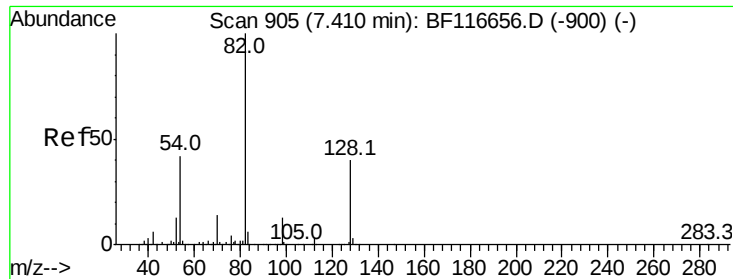
Delta R.T. -0.01 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Tgt Ion:	136	Resp:	430197
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	6.2	4.8	7.2
68	5.4	4.0	6.0





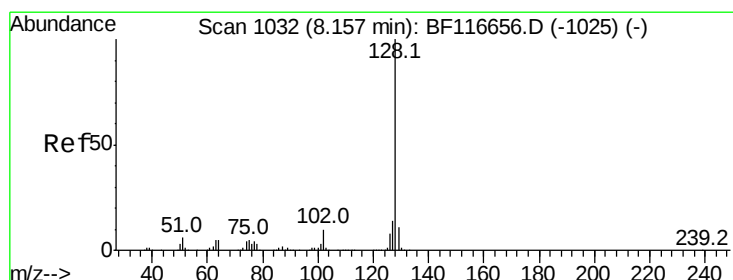
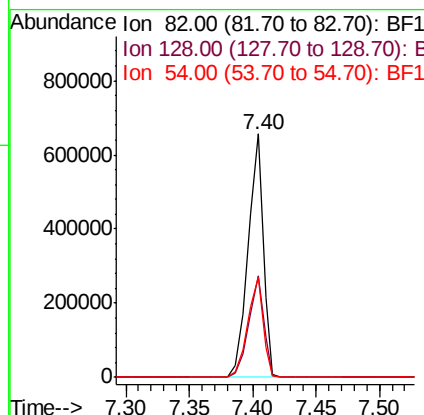
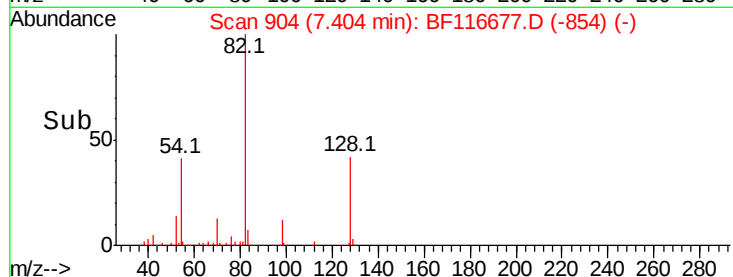
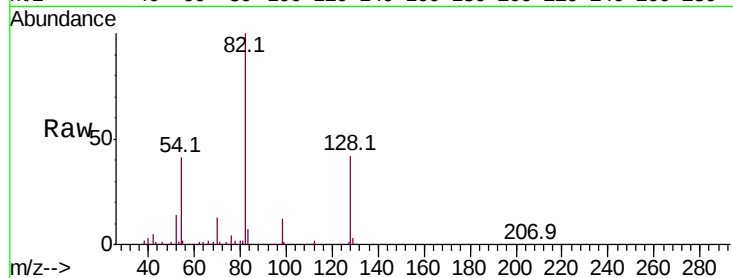
#23
Nitrobenzene-d5
Concen: 71.980 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Instrument :
BNA_F
ClientSampleId :
T9-12-13-Q2-Q4

Tot Ion	Ratio	Resp	Lower	Upper
82	100	542423		
128	41.8	32.8	49.2	
54	41.4	36.9	55.3	

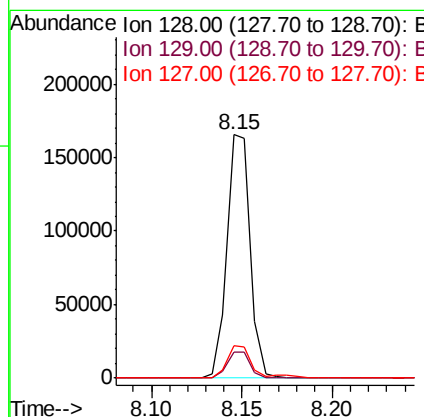
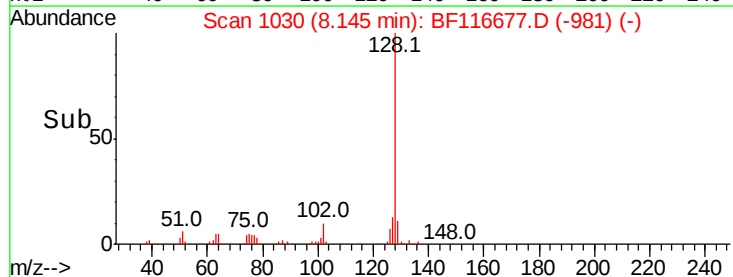
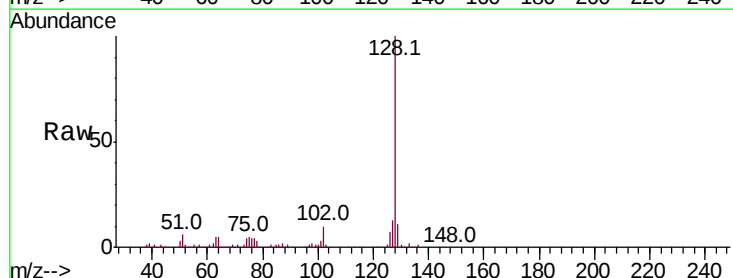
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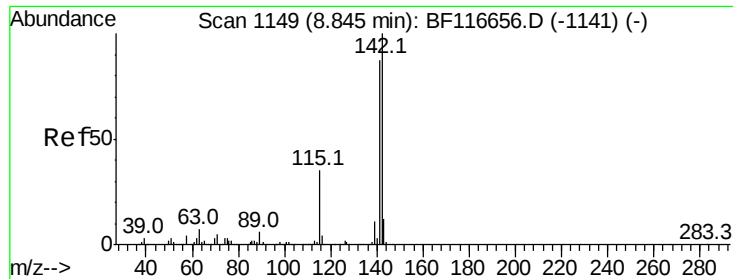
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#31
Naphthalene
Concen: 7.238 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	148065		
129	10.8	8.6	13.0	
127	13.2	10.4	15.6	





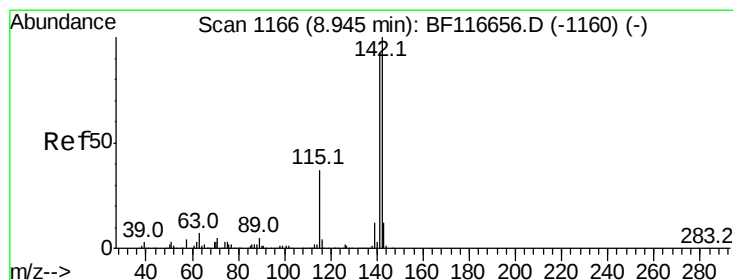
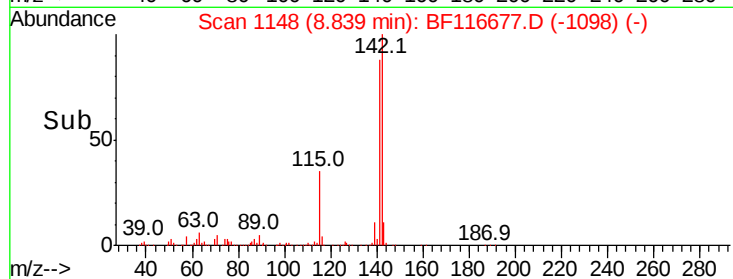
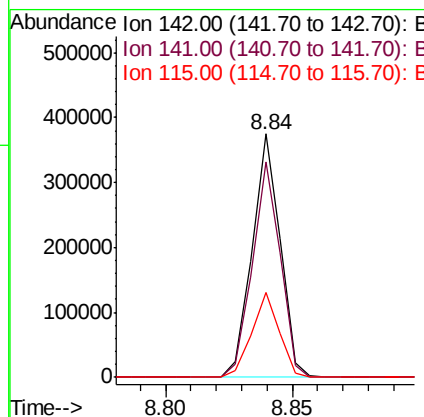
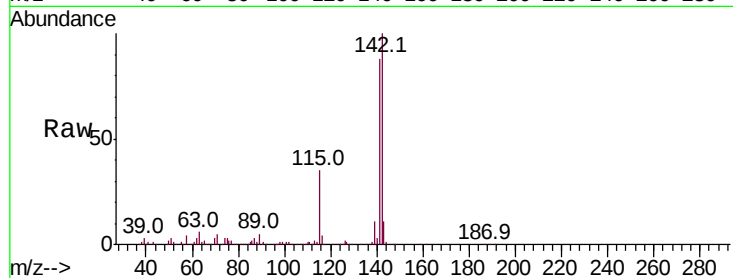
#37
2-Methylnaphthalene
Concen: 21.245 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Instrument :
BNA_F
ClientSampleId :
T9-12-13-Q2-Q4

Tot Ion	Ratio	Resp	Lower	Upper
142	100	289161		
141	88.4	72.6	109.0	
115	34.7	29.8	44.6	

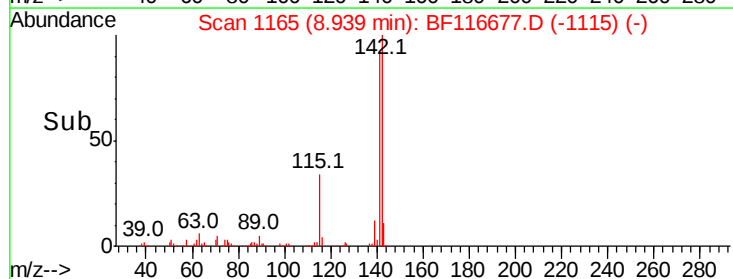
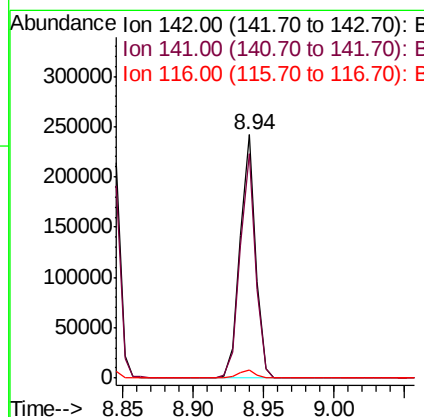
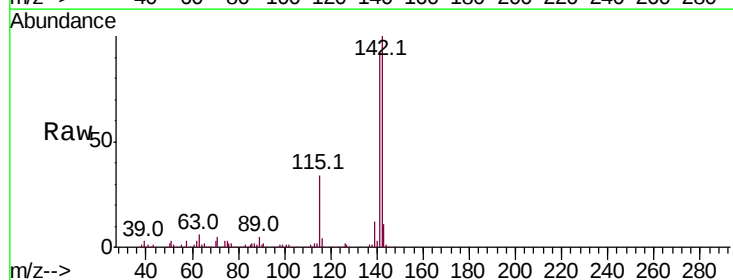
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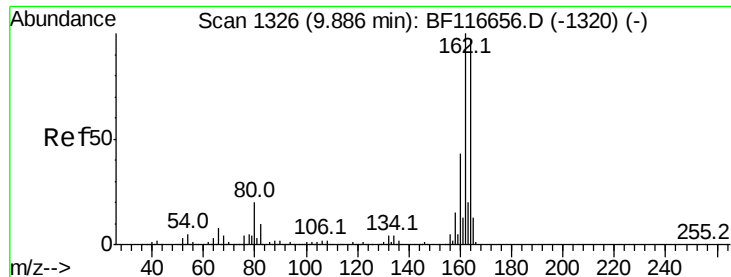
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#38
1-Methylnaphthalene
Concen: 14.439 ng
RT: 8.94 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	185519		
141	92.1	73.9	110.9	
116	3.6	3.0	4.6	





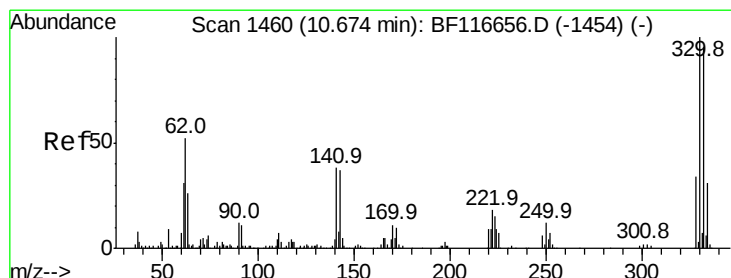
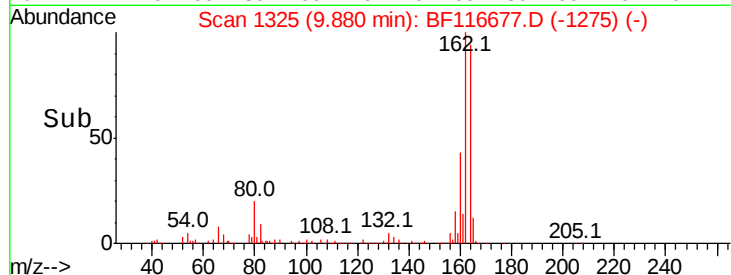
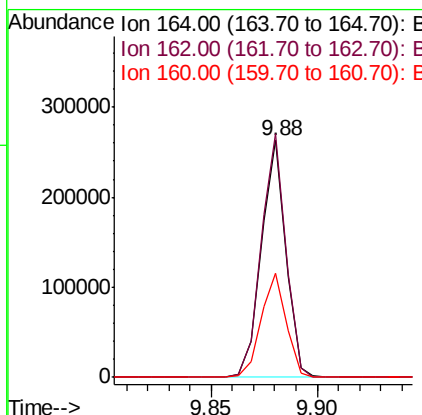
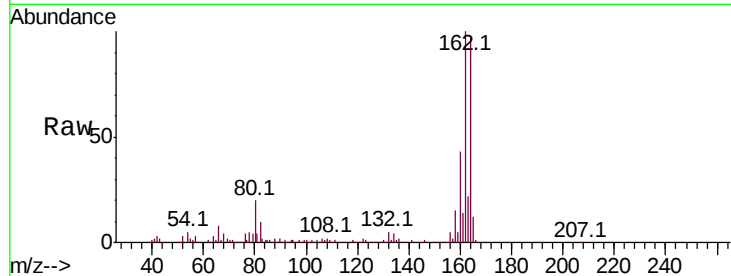
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Instrument :
BNA_F
ClientSampleId :
T9-12-13-Q2-Q4

Tot Ion	Ratio	Resp	Lower	Upper
164	100	214287		
162	102.7	81.4	122.0	
160	43.6	35.4	53.2	

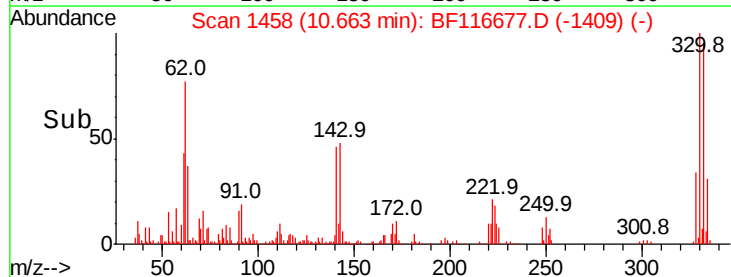
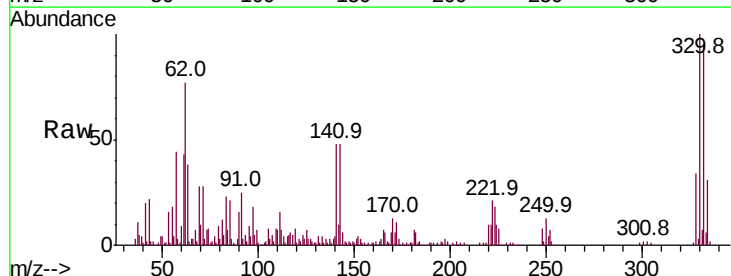
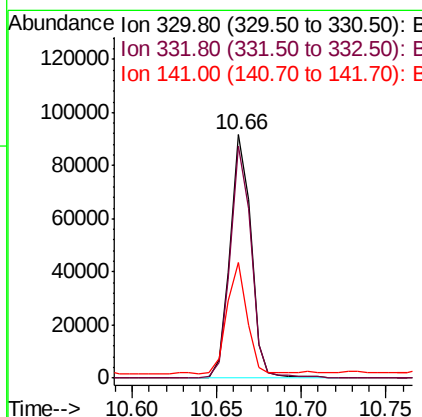
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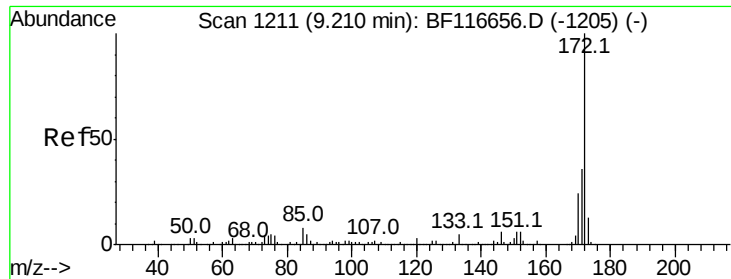
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#42
2,4,6-Tribromophenol
Concen: 55.121 ng
RT: 10.66 min Scan# 1458
Delta R.T. -0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	78964		
332	95.5	76.9	115.3	
141	45.3	31.4	47.2	





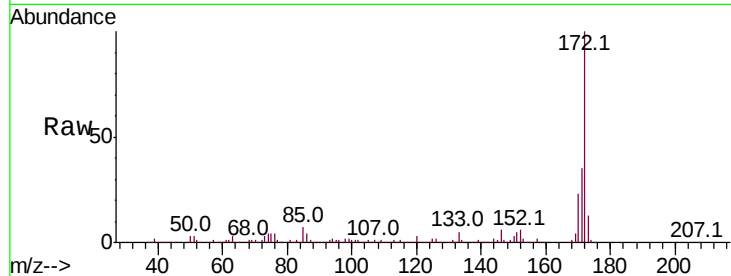
#45
2-Fluorobiphenyl
Concen: 68.915 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.00 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Instrument :
BNA_F
ClientSampleId :
T9-12-13-Q2-Q4

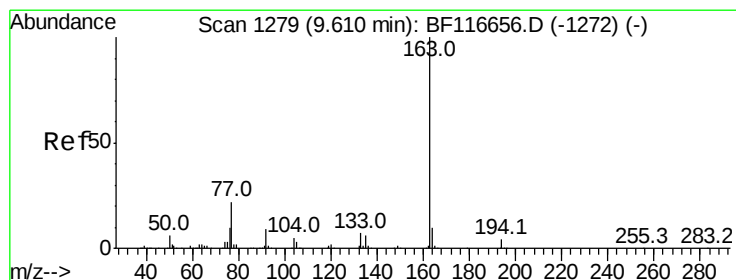
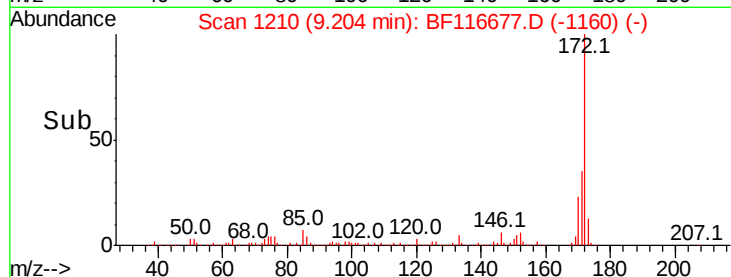
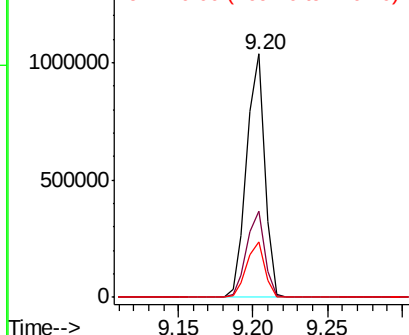
Tot Ion	Ratio	Resp	Lower	Upper
172	100	875428		
171	35.4		27.8	41.6
170	23.0		18.9	28.3

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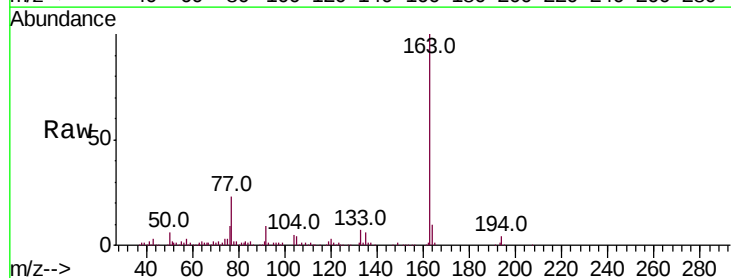


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

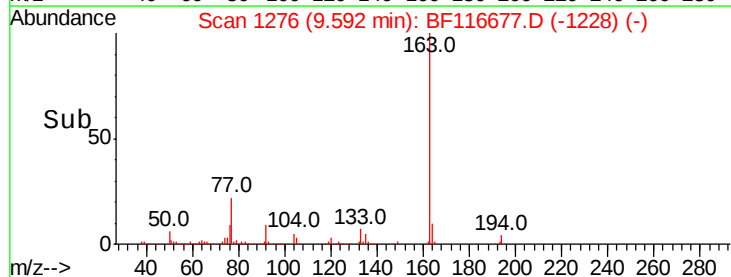
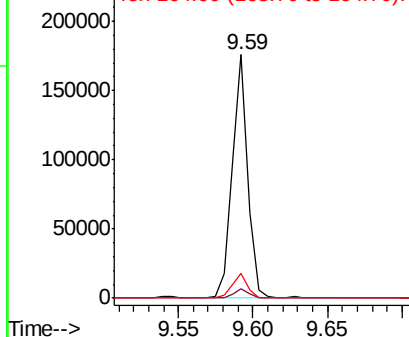


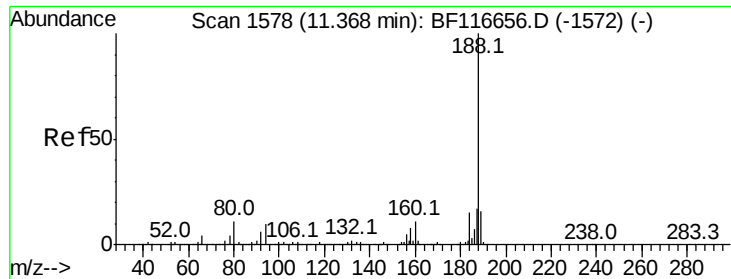
#50
Dimethylphthalate
Concen: 8.901 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	131690		
194	3.8		2.8	4.2
164	10.0		8.6	12.8



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: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Instrument :

BNA_F

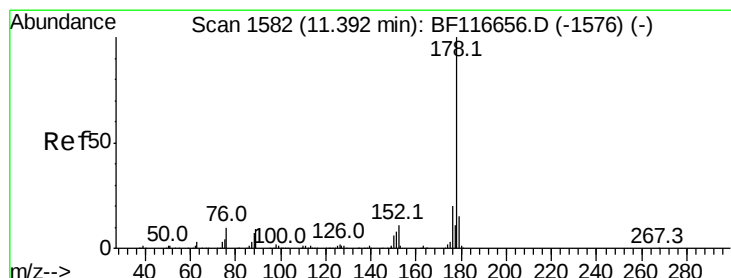
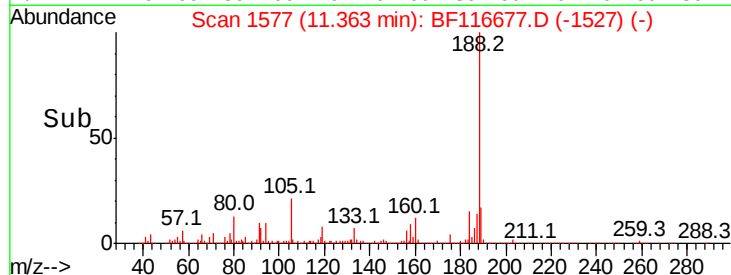
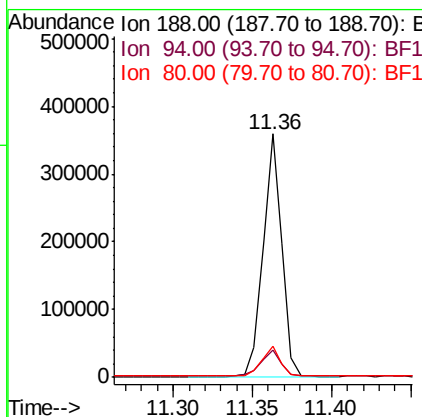
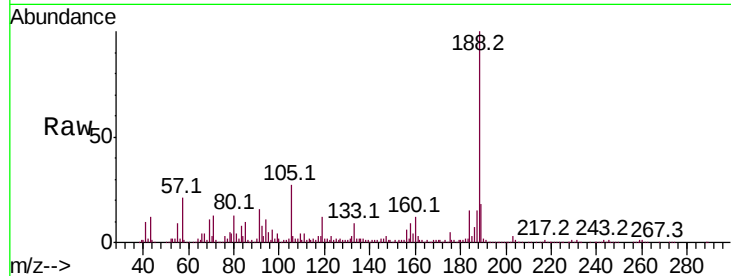
ClientSampleId :

T9-12-13-Q2-Q4

Tot Ion:	188	Resp:	296973
Ion Ratio	Lower	Upper	
188	100		
94	11.0	7.3	10.9#
80	12.9	8.4	12.6#

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#71

Phenanthrene

Concen: 13.853 ng

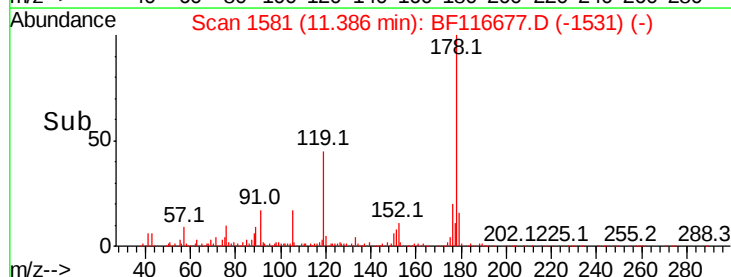
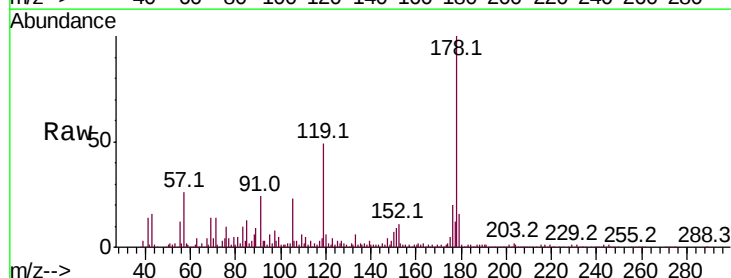
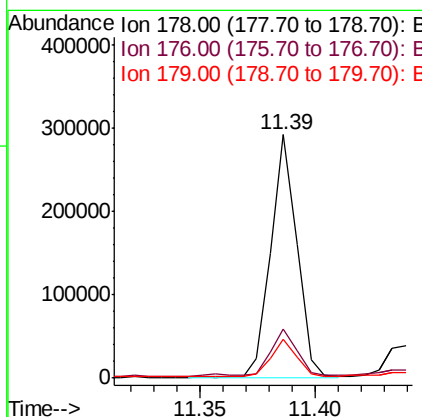
RT: 11.39 min Scan# 1581

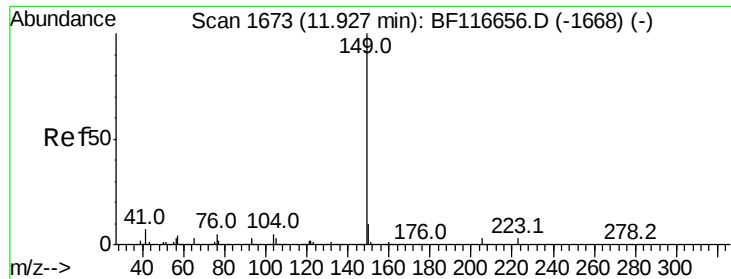
Delta R.T. -0.01 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Tgt Ion:	178	Resp:	229011
Ion Ratio	Lower	Upper	
178	100		
176	20.2	15.4	23.0
179	16.1	12.2	18.2





#74

Di-n-butylphthalate

Concen: 5.359 ng

RT: 11.93 min Scan# 1673

Delta R.T. 0.00 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Instrument :

BNA_F

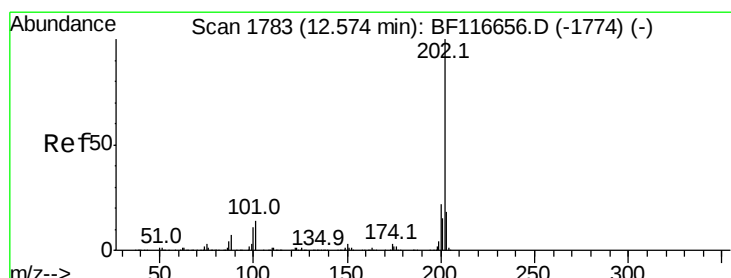
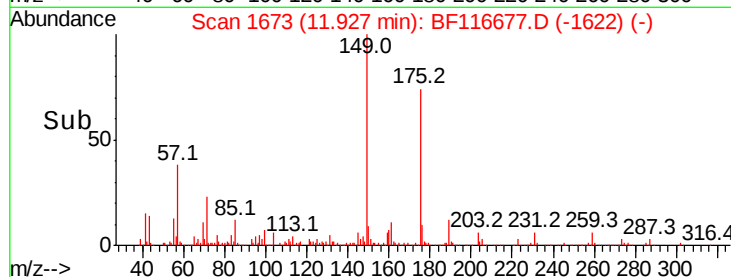
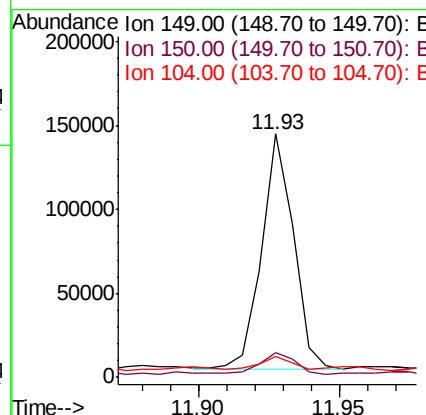
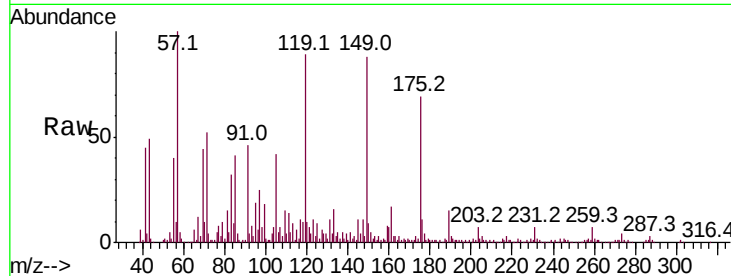
ClientSampleId :

T9-12-13-Q2-Q4

Tot Ion:	149	Resp:	108911
Ion Ratio	Lower	Upper	
149	100		
150	10.4	7.2	10.8
104	8.5	4.2	6.2

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#75

Fluoranthene

Concen: 19.037 ng

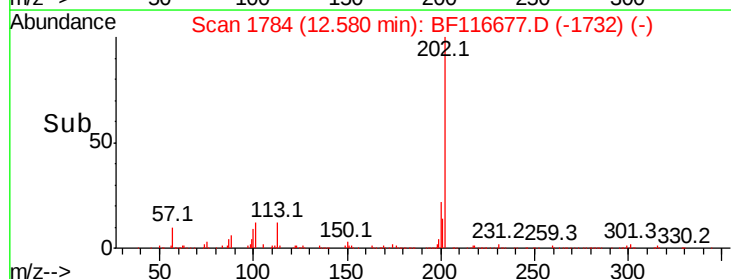
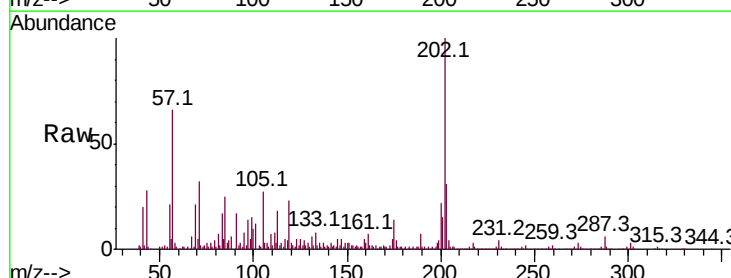
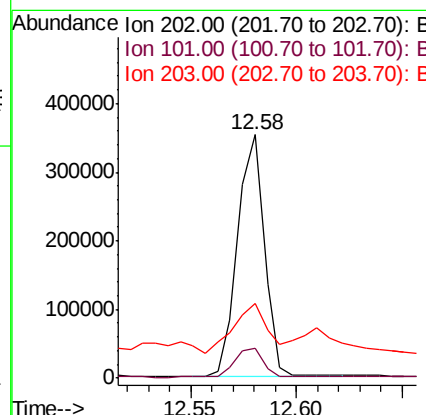
RT: 12.58 min Scan# 1784

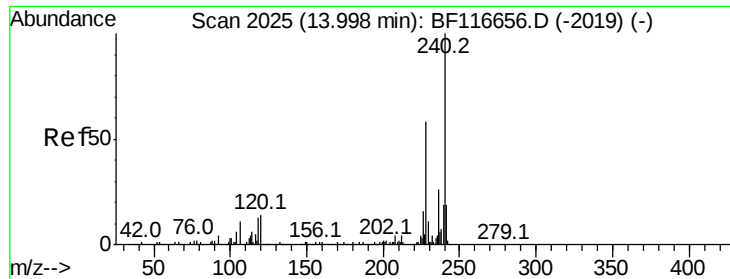
Delta R.T. 0.01 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Tgt Ion:	202	Resp:	309288
Ion Ratio	Lower	Upper	
202	100		
101	12.4	0.0	31.3
203	30.8	0.0	37.6





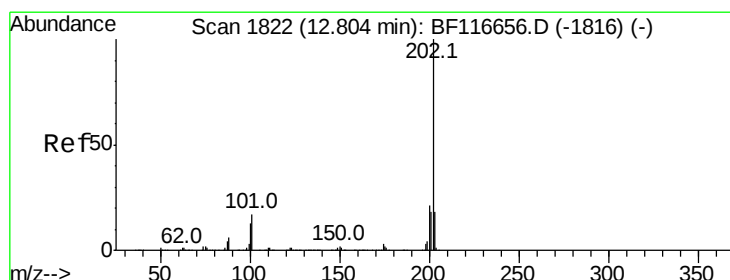
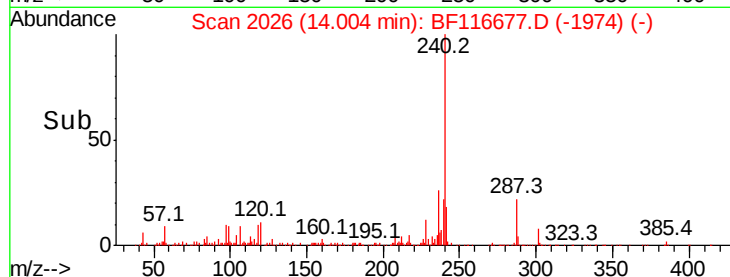
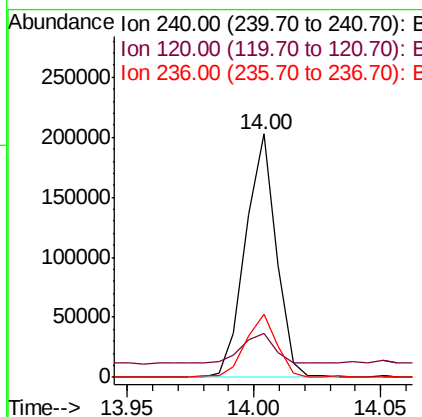
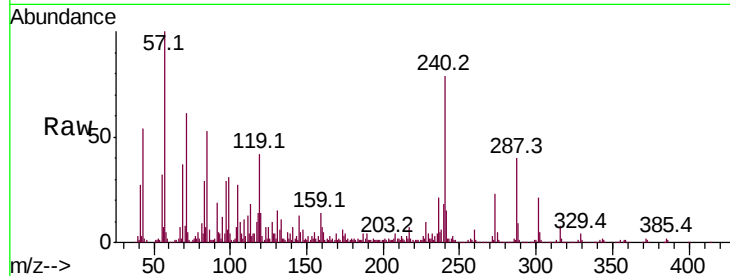
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2026
Delta R.T. 0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Instrument :
BNA_F
ClientSampleId :
T9-12-13-Q2-Q4

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	17.8	9.1	13.7#	
236	25.9	21.1	31.7	

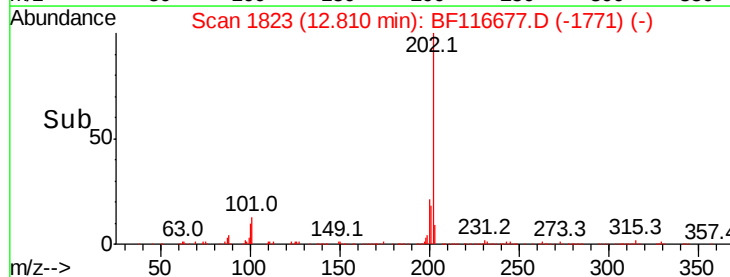
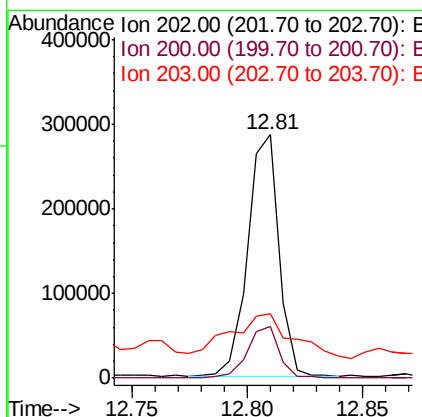
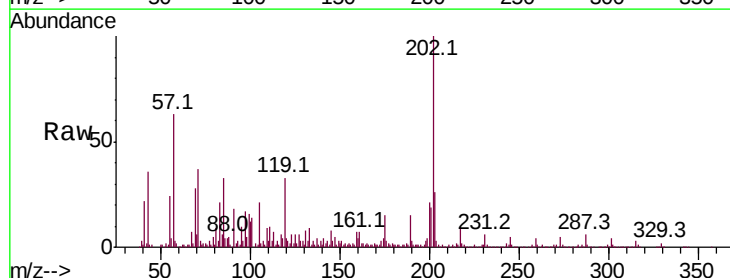
Manual Integrations
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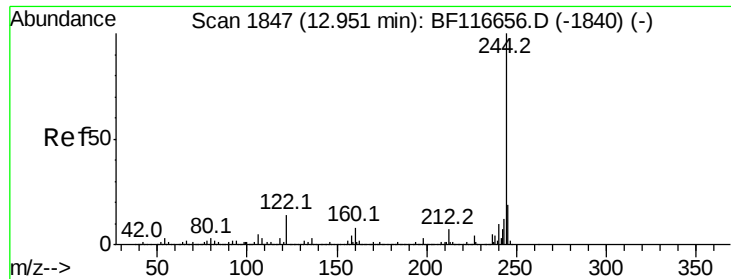
mohammad
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#78
Pyrene
Concen: 17.753 ng
RT: 12.81 min Scan# 1823
Delta R.T. 0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.3	16.5	24.7	
203	26.4	13.7	20.5#	





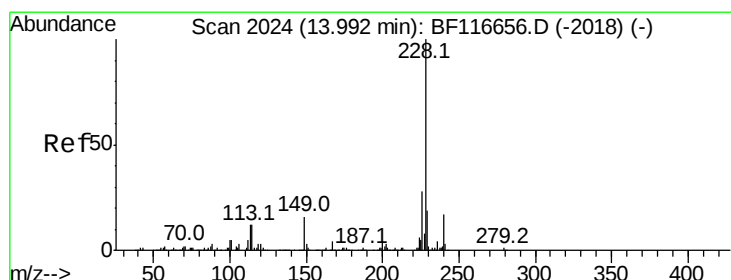
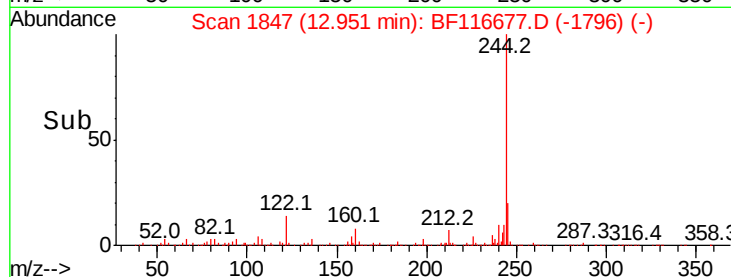
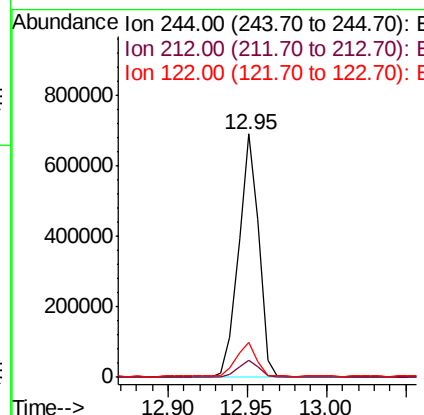
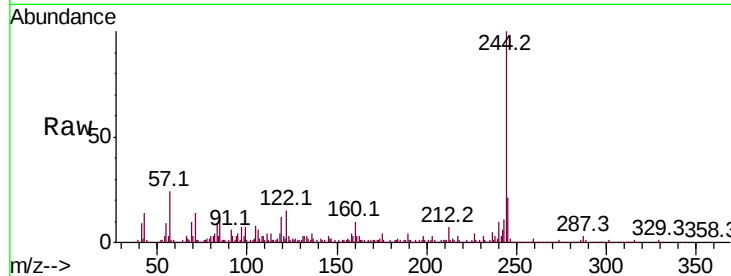
#79
 Terphenyl-d14
 Concen: 65.136 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. 0.00 min
 Lab File: BF116677.D
 Acq: 31 Aug 2019 3:46

Instrument :
 BNA_F
 ClientSampleId :
 T9-12-13-Q2-Q4

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.1	9.1
122	14.6	10.2	15.4

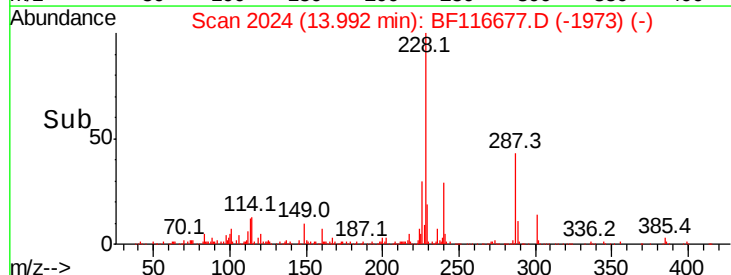
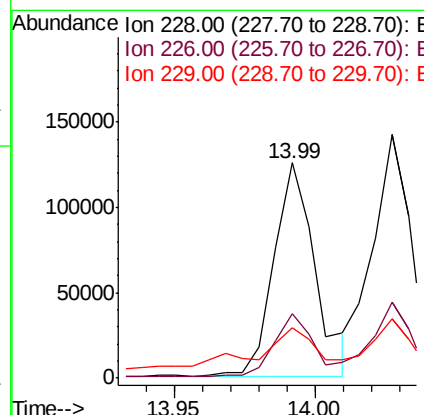
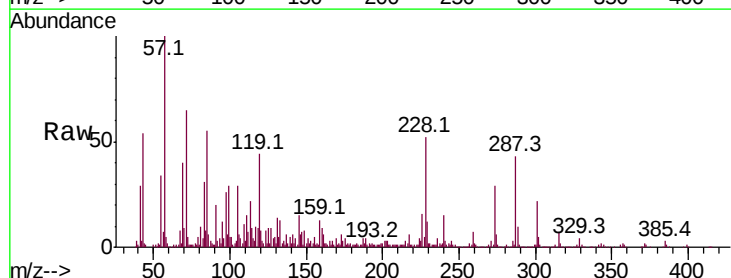
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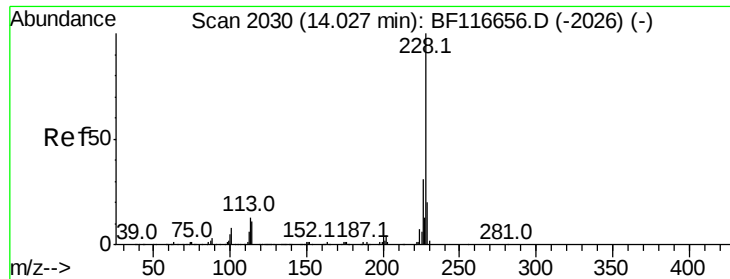
mohammad
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#81
 Benzo(a)anthracene
 Concen: 11.682 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. 0.00 min
 Lab File: BF116677.D
 Acq: 31 Aug 2019 3:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.0	33.0
229	23.7	16.4	24.6





#83

Chrysene

Concen: 12.040 ng

RT: 14.03 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Instrument :

BNA_F

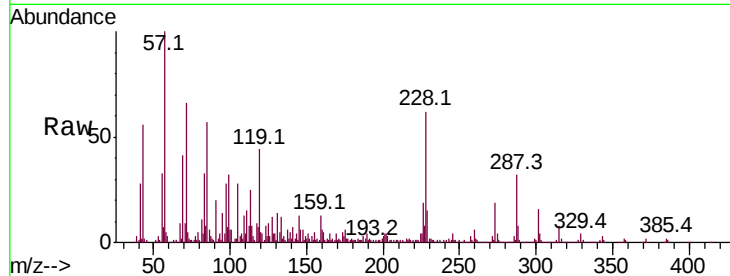
ClientSampleId :

T9-12-13-Q2-Q4

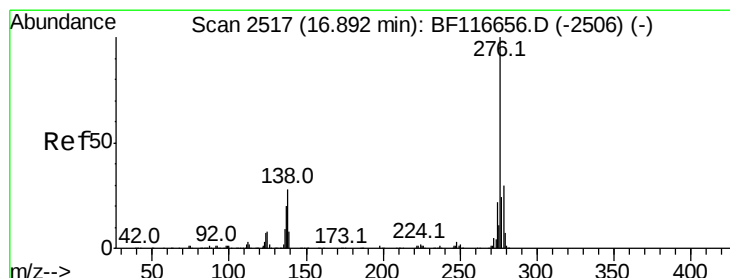
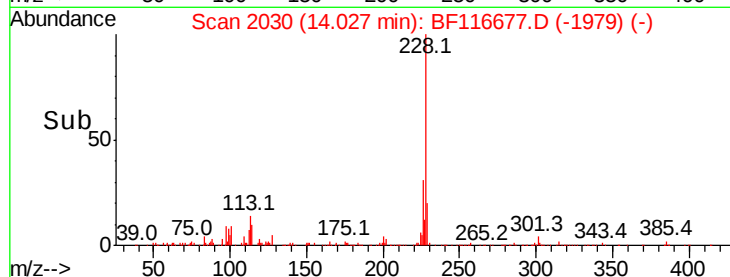
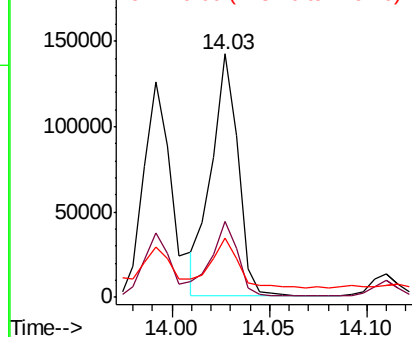
Tot Ion:	228	Resp:	134044
Ion Ratio	Lower	Upper	
228	100		
226	31.2	24.0	36.0
229	24.6	15.4	23.0

Manual Integrations
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 14.166 ng

RT: 16.90 min Scan# 2519

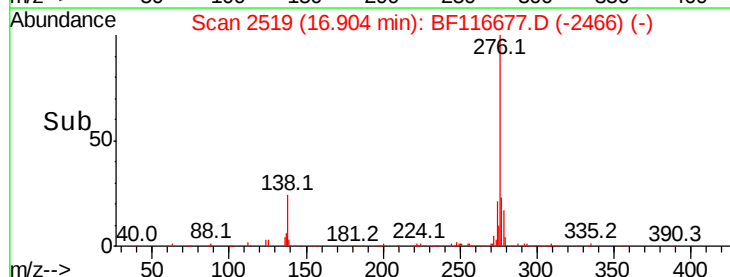
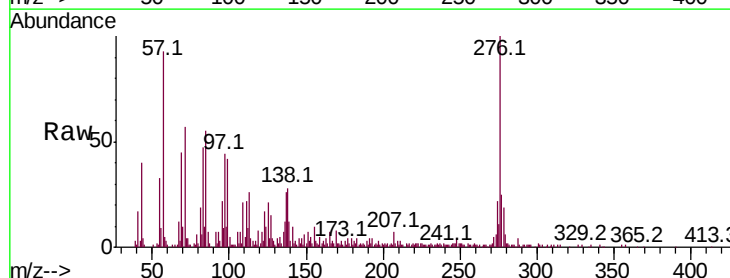
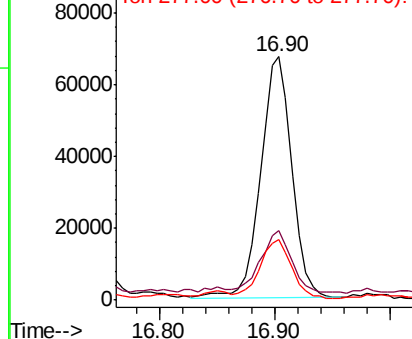
Delta R.T. 0.01 min

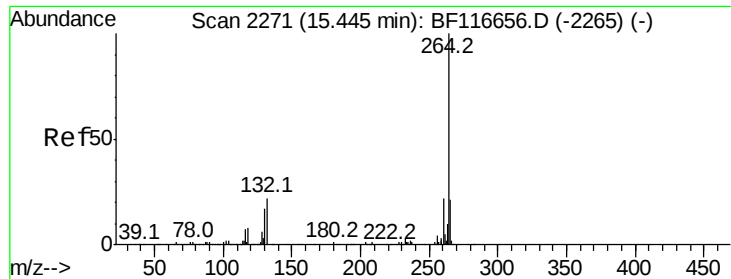
Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Tgt Ion:	276	Resp:	126675
Ion Ratio	Lower	Upper	
276	100		
138	25.1	19.4	29.2
277	24.6	20.5	30.7

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





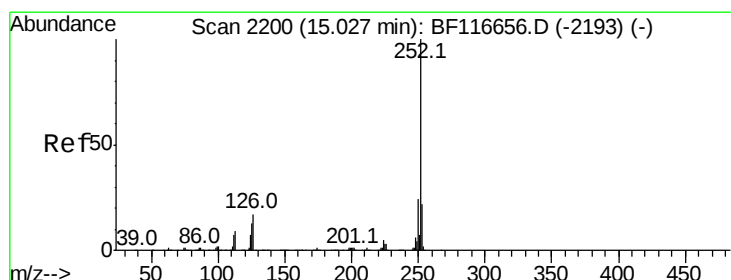
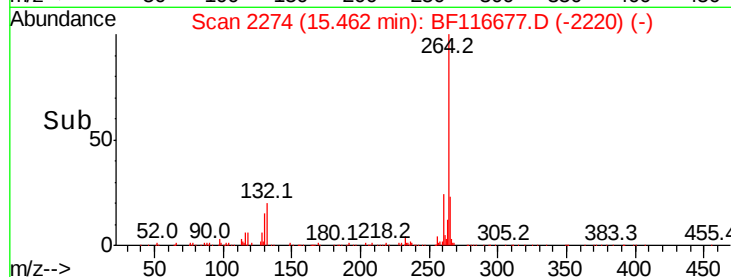
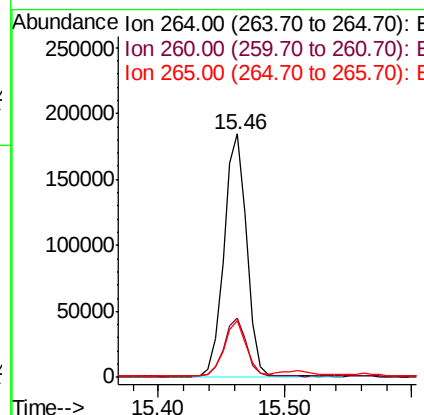
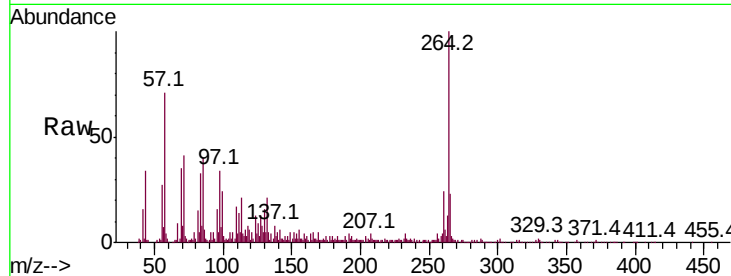
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.02 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Instrument :
BNA_F
ClientSampleId :
T9-12-13-Q2-Q4

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.3	27.5
265	23.4	16.5	24.7

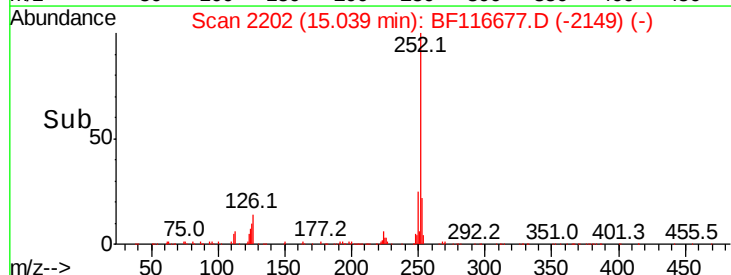
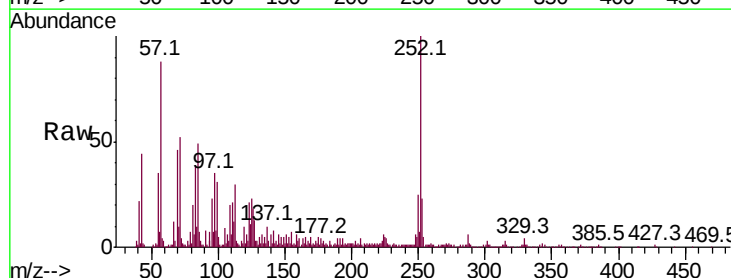
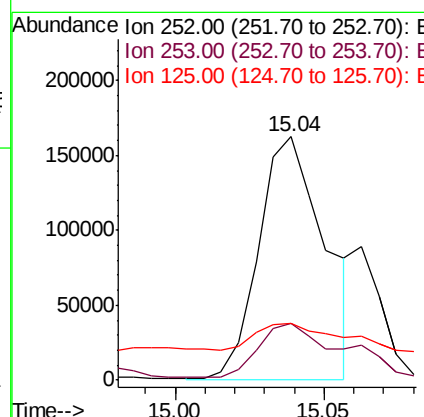
Manual Integrations
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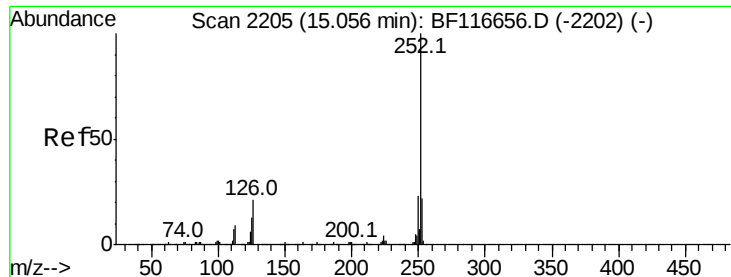
mohammad
8/31/2019 2:45:36 PM



#88
Benzo(b)fluoranthene
Concen: 18.184 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.7	26.5
125	23.3	8.2	12.2#





#89

Benzo(k)fluoranthene

Concen: 4.707 ng m

RT: 15.06 min Scan# 2206

Delta R.T. 0.01 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Instrument :

BNA_F

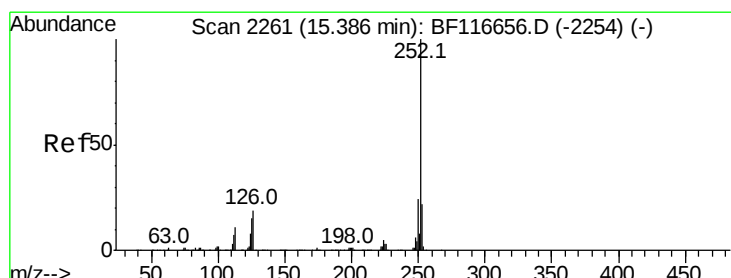
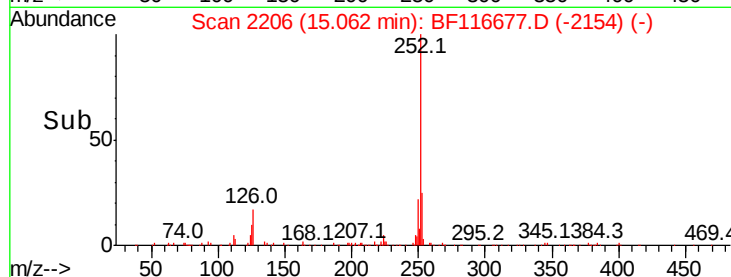
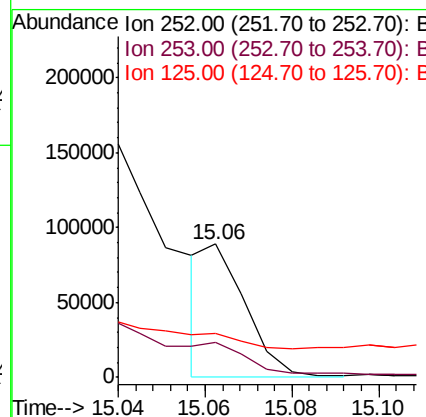
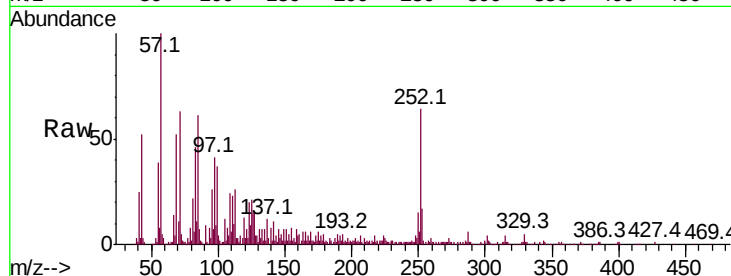
ClientSampleId :

T9-12-13-Q2-Q4

Tot Ion:	252	Resp:	59349
Ion Ratio	Lower	Upper	
252	100		
253	25.8	17.7	26.5
125	33.2	8.6	13.0#

Manual Integrations
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#90

Benzo(a)pyrene

Concen: 13.399 ng

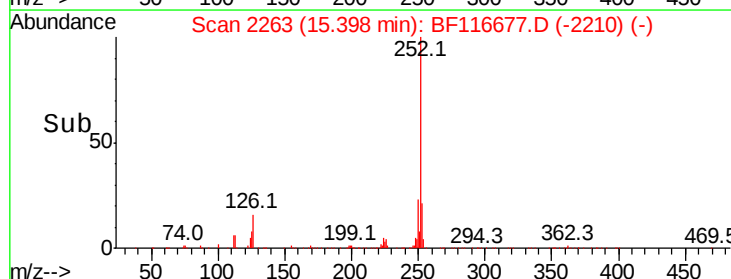
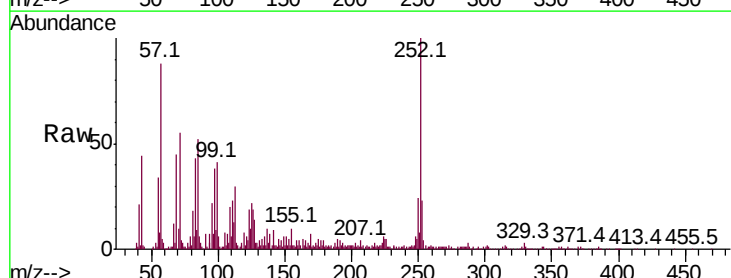
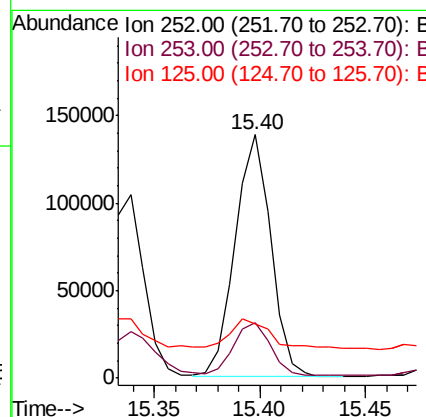
RT: 15.40 min Scan# 2263

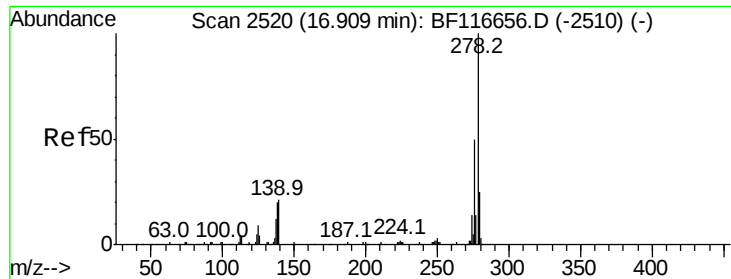
Delta R.T. 0.01 min

Lab File: BF116677.D

Acq: 31 Aug 2019 3:46

Tgt Ion:	252	Resp:	161189
Ion Ratio	Lower	Upper	
252	100		
253	22.9	18.1	27.1
125	22.5	9.8	14.8#





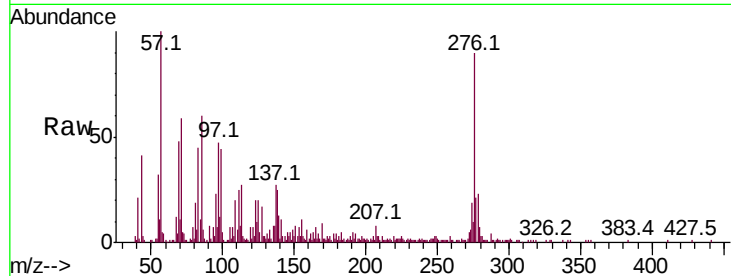
#91
Dibenzo(a,h)anthracene
Concen: 2.991 ng
RT: 16.91 min Scan# 2520
Delta R.T. 0.00 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Instrument :
BNA_F
ClientSampleId :
T9-12-13-Q2-Q4

Tot Ion	Ratio	Lower	Upper
278	100		
139	57.3	12.4	18.6#
279	28.4	18.2	27.4#

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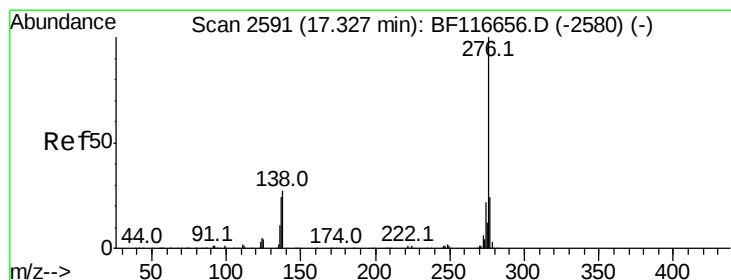
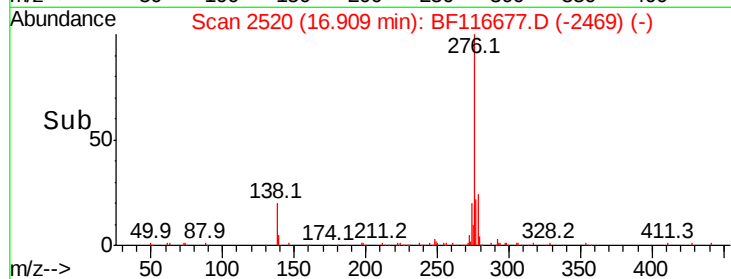
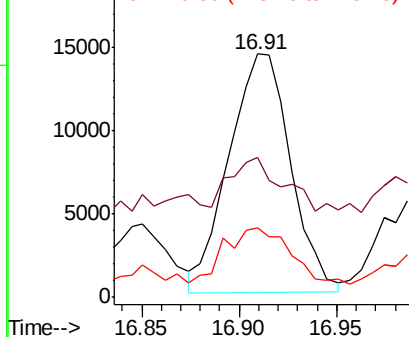


Abundance

Ion 278.00 (277.70 to 278.70): E

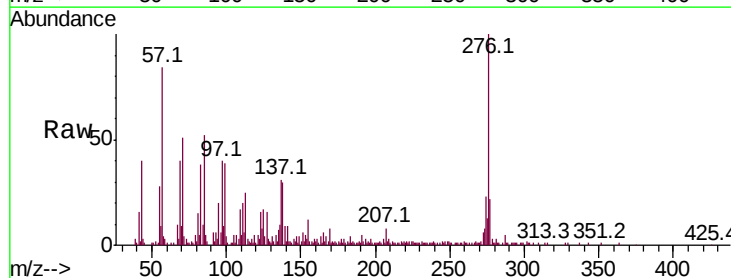
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 11.823 ng
RT: 17.34 min Scan# 2593
Delta R.T. 0.01 min
Lab File: BF116677.D
Acq: 31 Aug 2019 3:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.0	18.5	27.7
138	29.5	16.2	24.2#



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

