

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
 Data File : BF115873.D
 Acq On : 31 Jul 2019 18:32
 Operator : HP/JU
 Sample : K4049-08
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-8

Manual Integrations
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Quant Time: Aug 01 11:59:36 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	143348	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	527412	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	253802	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	361373	20.00	ng	0.00
76) Chrysene-d12	14.05	240	236515	20.00	ng	0.02
87) Perylene-d12	15.54	264	305099	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	897063	104.76	ng	0.00
7) Phenol-d6	6.49	99	1154103	106.83	ng	0.00
23) Nitrobenzene-d5	7.41	82	726589	79.52	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	226049	91.86	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	1129173	83.33	ng	0.00
79) Terphenyl-d14	12.97	244	817895	72.87	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.15	128	115244	4.643	ng	99
49) Acenaphthylene	9.75	152	167935	7.719	ng	100
50) Dimethylphthalate	9.60	163	266997	15.450	ng	100
52) Acenaphthene	9.92	154	35507	2.660	ng	99
55) Dibenzofuran	10.09	168	74154	3.820	ng	94
58) Fluorene	10.44	166	57153	3.827	ng	97
71) Phenanthrene	11.41	178	1088457	58.918	ng	99
72) Anthracene	11.46	178	189881	10.156	ng	98
73) Carbazole	11.61	167	127715	7.529	ng	98
75) Fluoranthene	12.61	202	1564667	80.901	ng	98
78) Pyrene	12.84	202	1433741	80.417	ng	98
81) Benzo(a)anthracene	14.04	228	764059	50.542	ng	93
83) Chrysene	14.07	228	716157	48.796	ng	97
84) Bis(2-ethylhexyl)phthalate	14.02	149	50880	5.192	ng	# 92
86) Indeno(1,2,3-cd)pyrene	17.02	276	433542	35.171	ng	97
88) Benzo(b)fluoranthene	15.12	252	996409m	56.482	ng	
89) Benzo(k)fluoranthene	15.13	252	313205m	18.228	ng	
90) Benzo(a)pyrene	15.49	252	694623m	44.047	ng	
91) Dibenzo(a,h)anthracene	17.02	278	114574	8.393	ng	# 75
92) Benzo(a,h,i)perylene	17.47	276	390048	29.095	ng	99

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

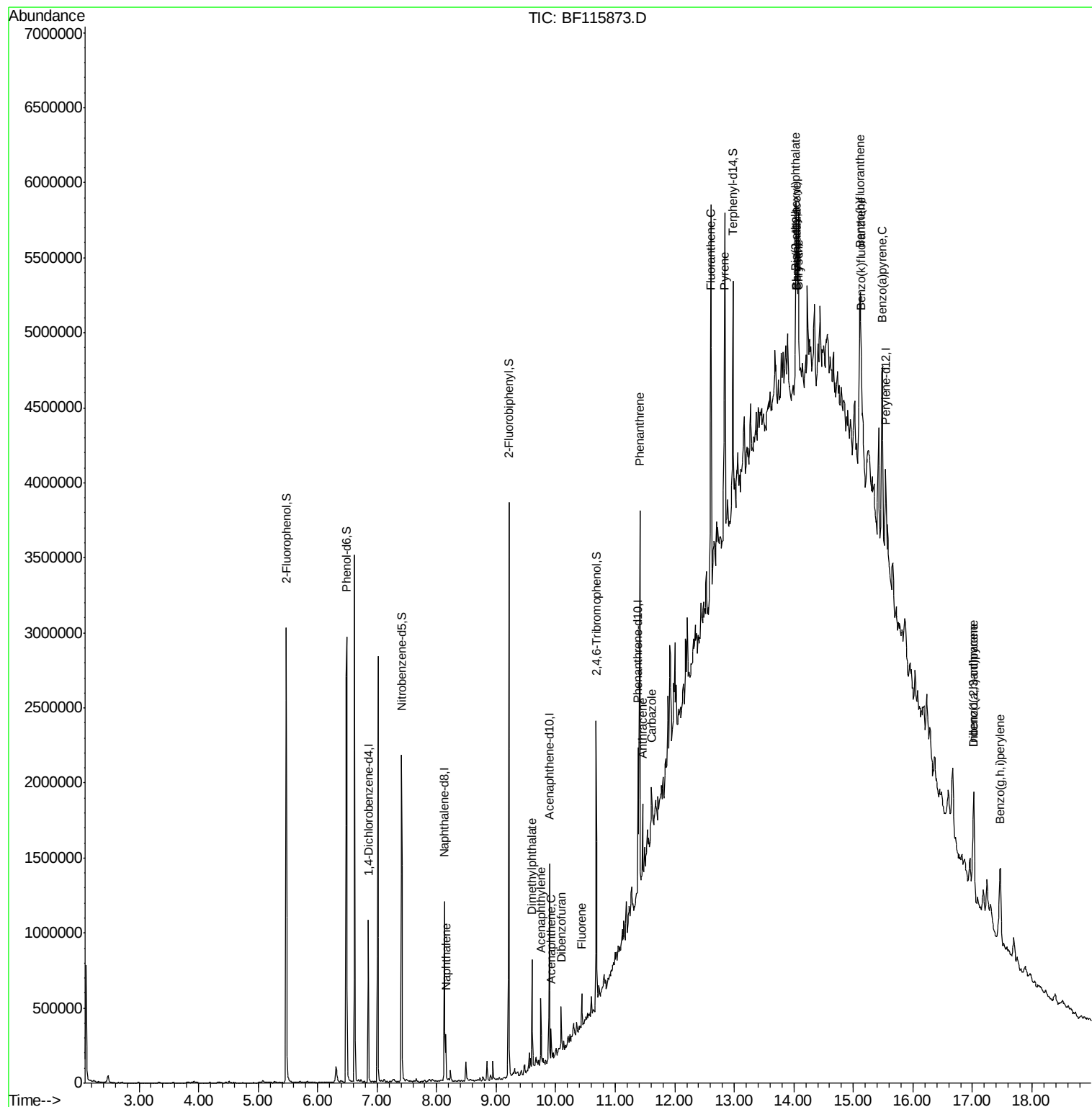
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115873.D
Acq On : 31 Jul 2019 18:32
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#1

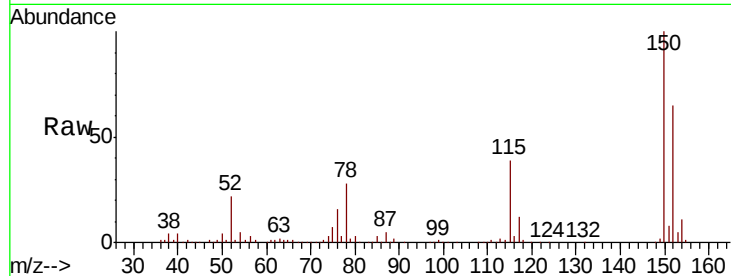
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Instrument :
BNA_F
ClientSampleId :
SP-8

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.4	127.4	191.0
115	60.1	51.8	77.8

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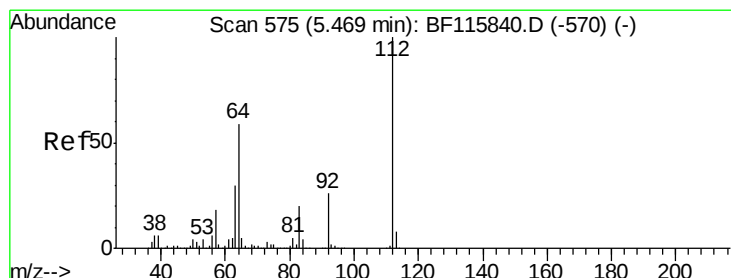
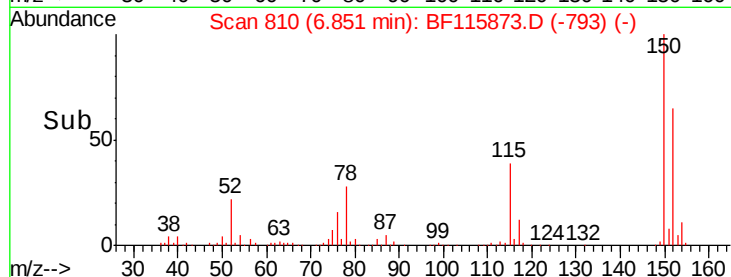
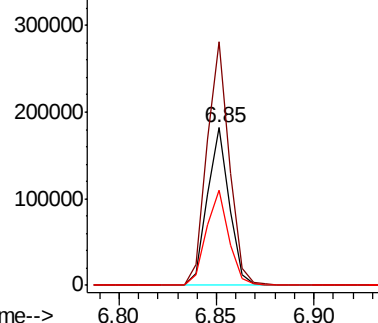


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

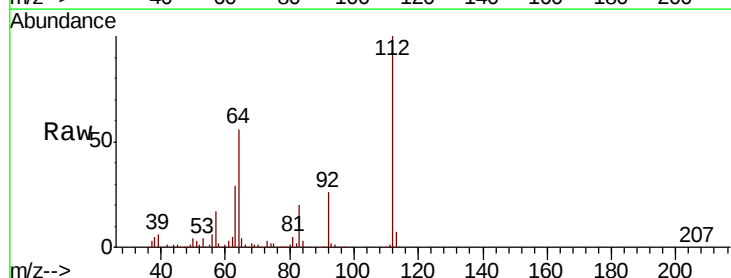
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 104.762 ng
RT: 5.47 min Scan# 576
Delta R.T. 0.01 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.3	46.8	70.2
63	29.4	24.2	36.2

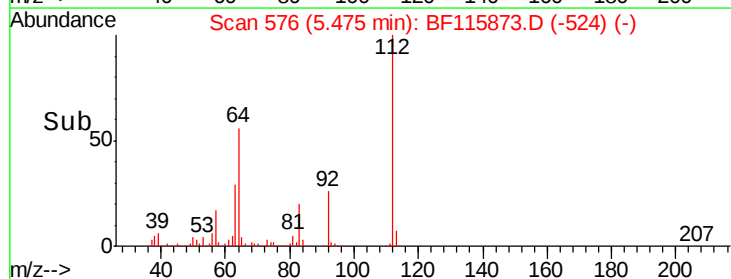
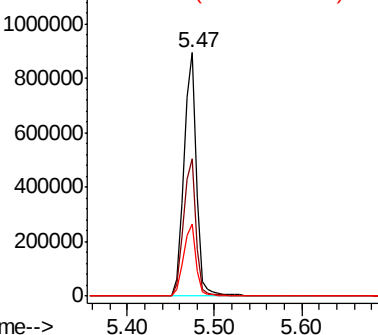


Abundance

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: 106.826 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.00 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Instrument :

BNA_F

ClientSampled :

SP-8

Tot Ion: 99 Resp: 1154103

Ion Ratio Lower Upper

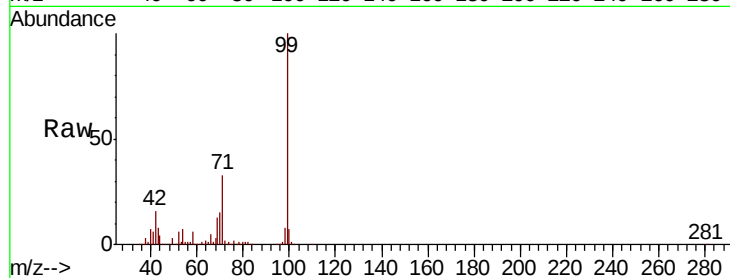
99 100

42 16.2 13.8 20.6

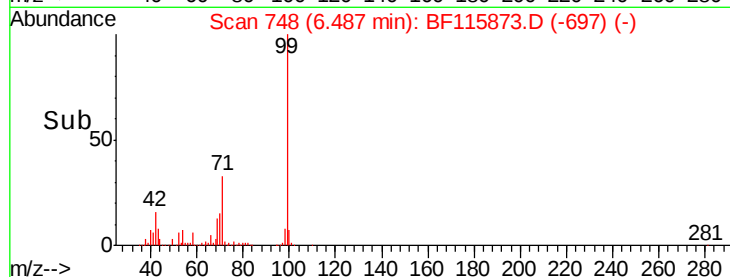
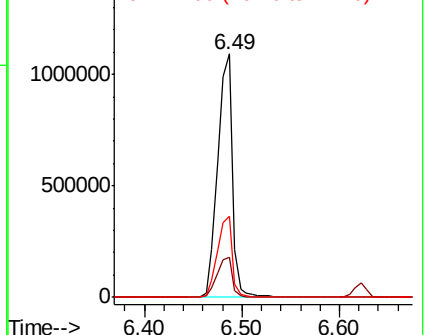
71 33.1 27.1 40.7

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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. 0.00 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Tgt Ion: 136 Resp: 527412

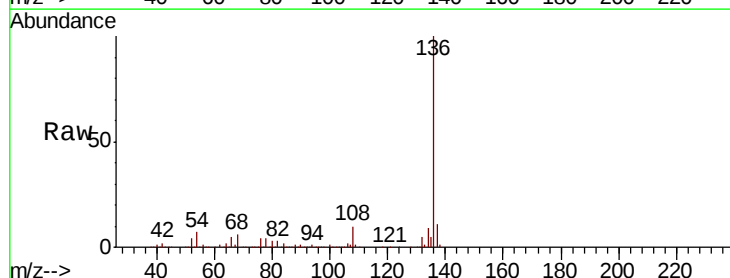
Ion Ratio Lower Upper

136 100

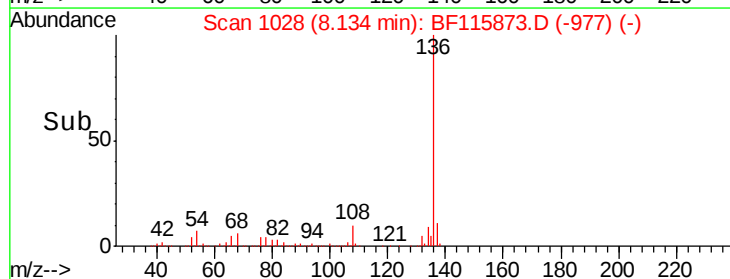
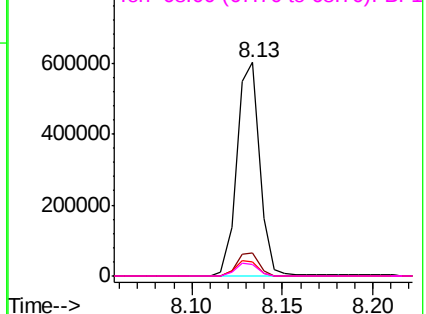
137 10.8 9.1 13.7

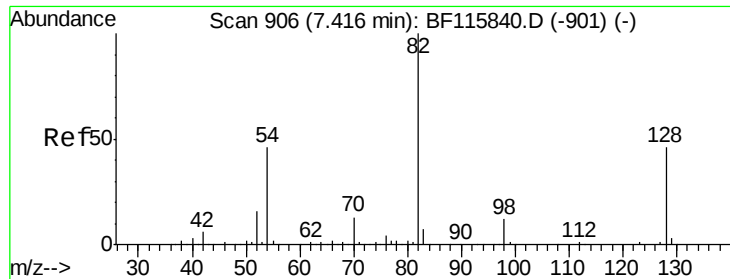
54 6.5 6.1 9.1

68 5.6 5.4 8.2



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





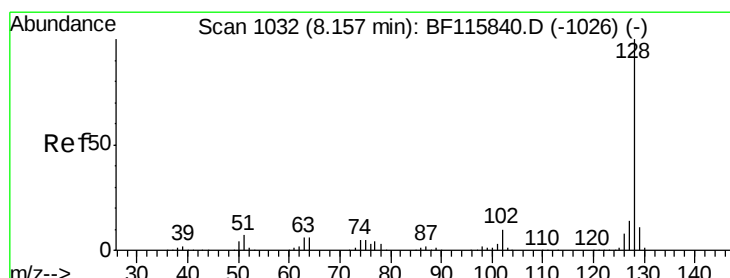
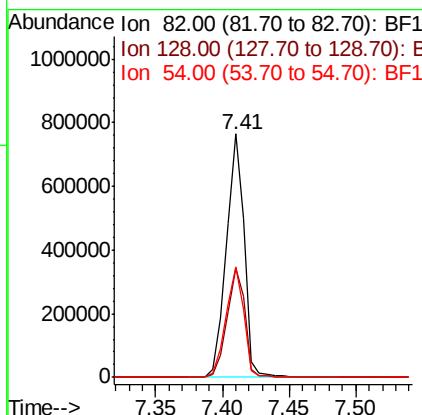
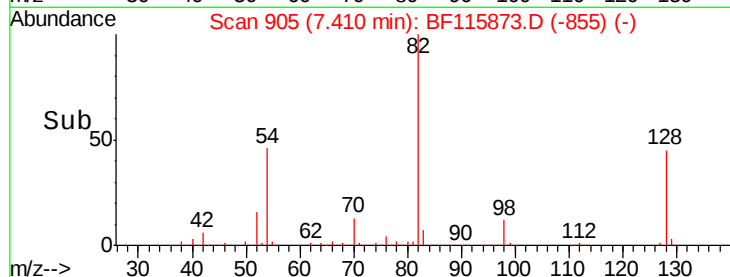
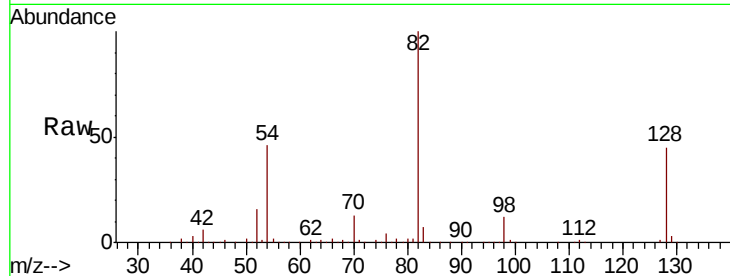
#23
Nitrobenzene-d5
Concen: 79.522 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Instrument :
BNA_F
ClientSampled :
SP-8

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.6	55.0
54	45.6	36.6	55.0

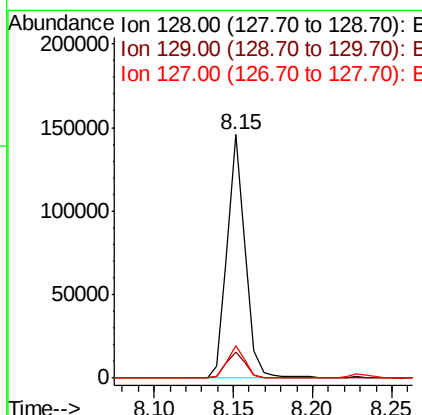
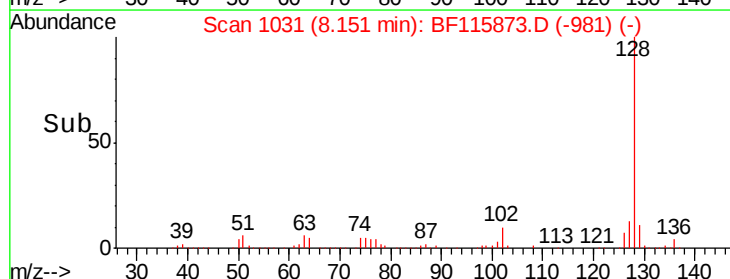
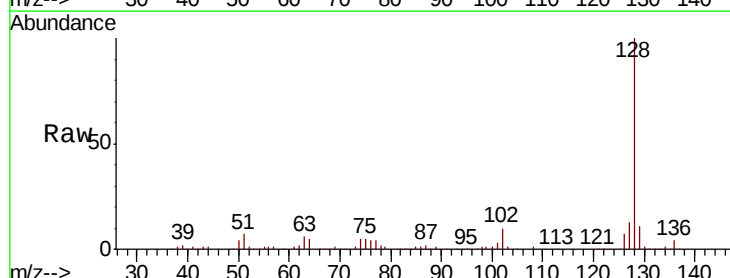
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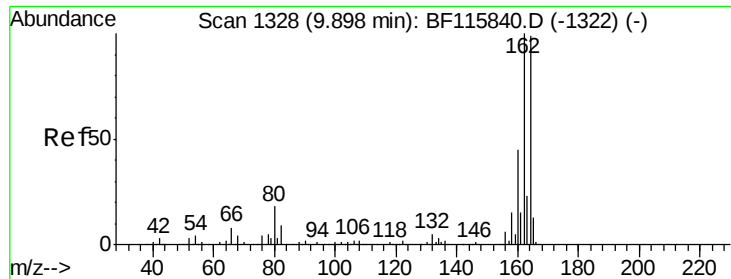
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#31
Naphthalene
Concen: 4.643 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.2	13.8
127	13.2	11.0	16.4





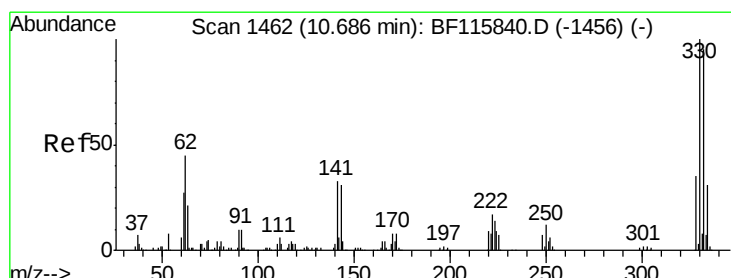
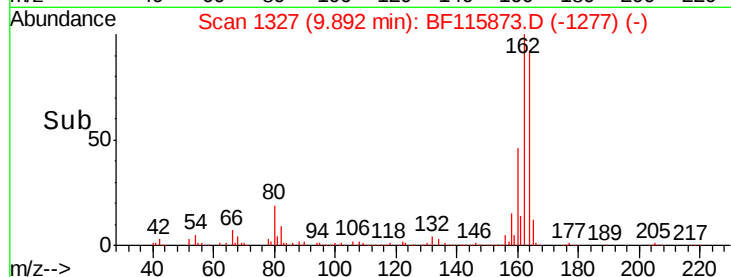
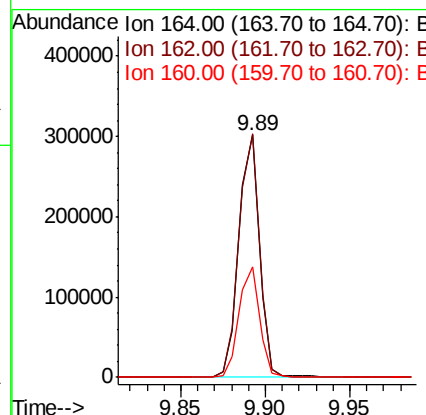
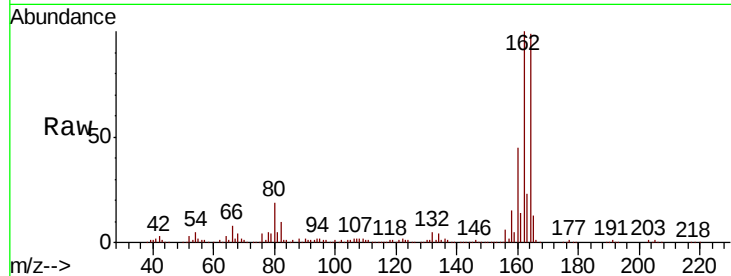
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Instrument :
BNA_F
ClientSampleId :
SP-8

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.7	80.8	121.2	
160	45.6	36.2	54.4	

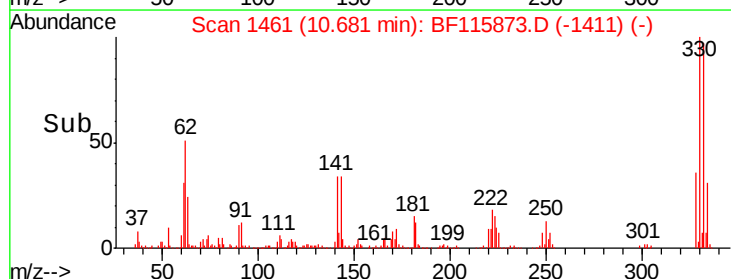
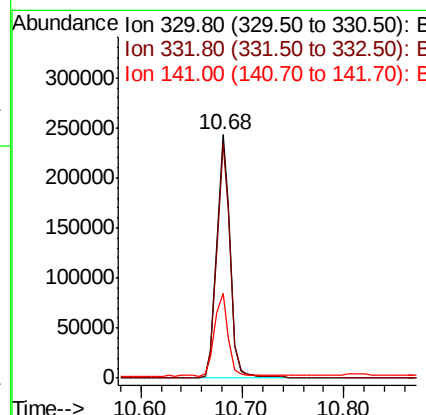
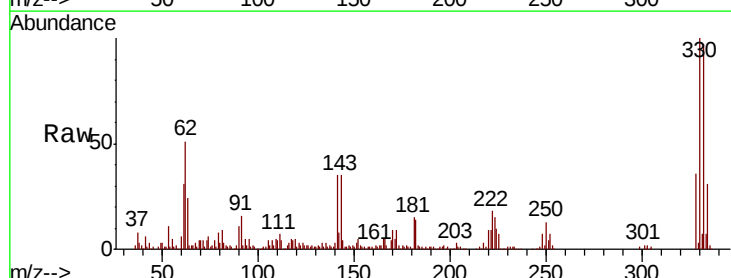
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#42
2,4,6-Tribromophenol
Concen: 91.864 ng
RT: 10.68 min Scan# 1461
Delta R.T. -0.01 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.9	77.7	116.5	
141	36.8	28.1	42.1	





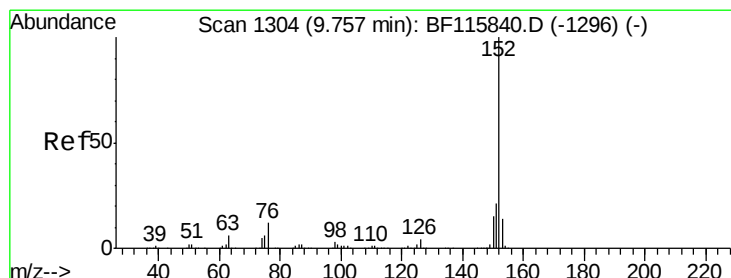
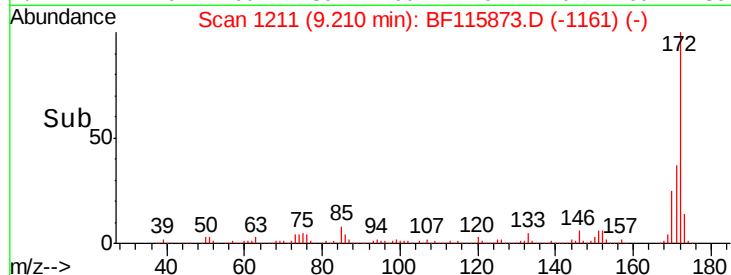
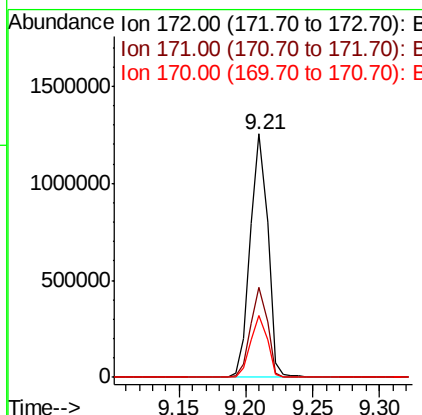
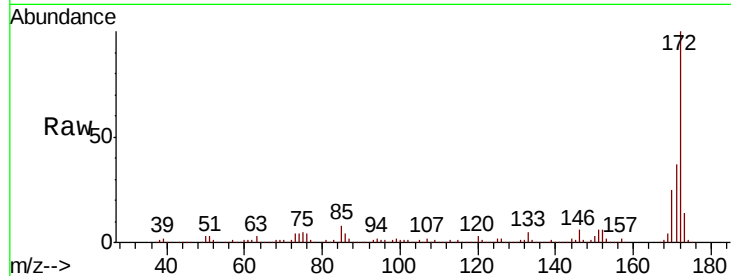
#45
2-Fluorobiphenyl
Concen: 83.334 ng
RT: 9.21 min Scan# 1211
Delta R.T. -0.01 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Instrument :
BNA_F
ClientSampleId :
SP-8

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.1	43.7
170	25.5	20.1	30.1

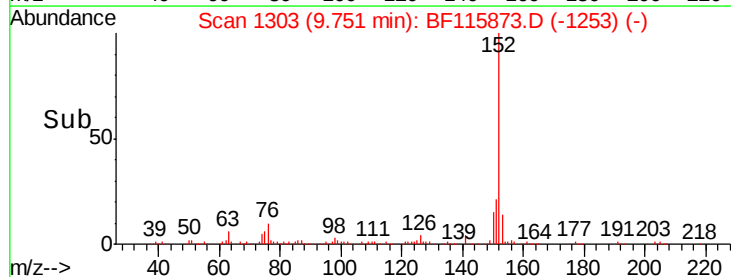
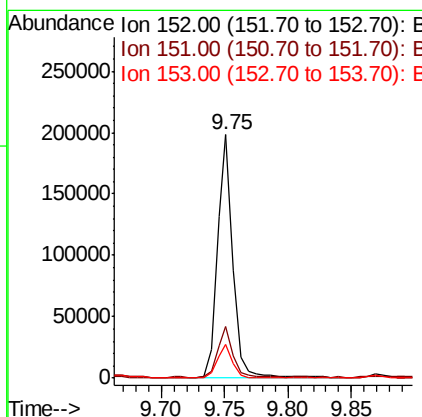
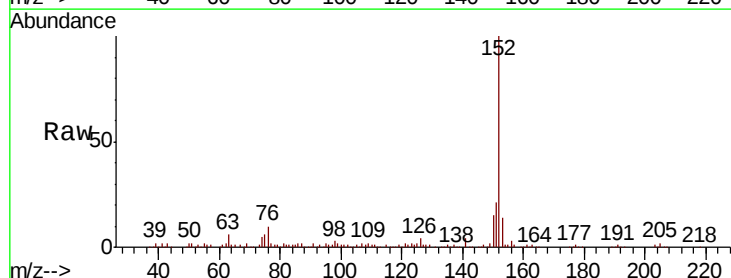
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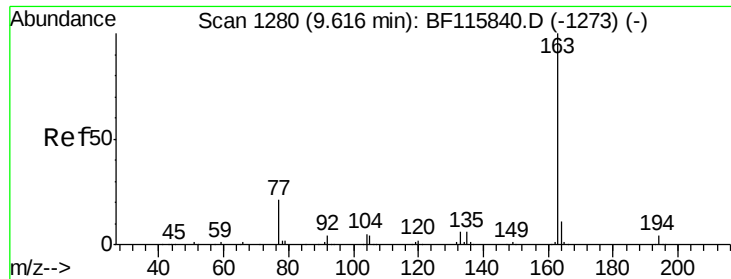
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#49
Acenaphthylene
Concen: 7.719 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.8	25.2
153	14.0	11.6	17.4





#50

Dimethylphthalate

Concen: 15.450 ng

RT: 9.60 min Scan# 1278

Delta R.T. -0.01 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Instrument :

BNA_F

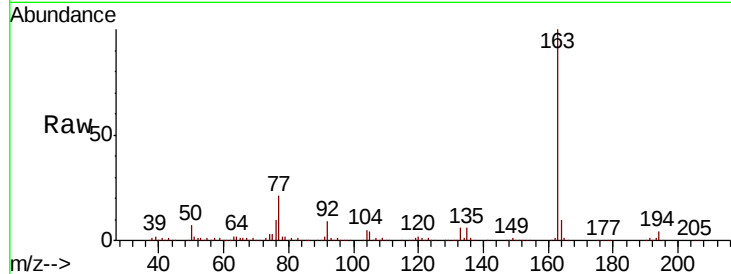
ClientSampleId :

SP-8

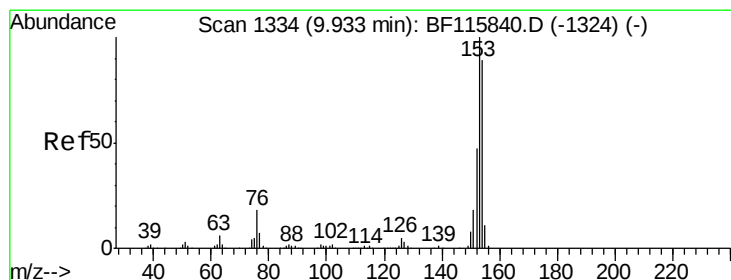
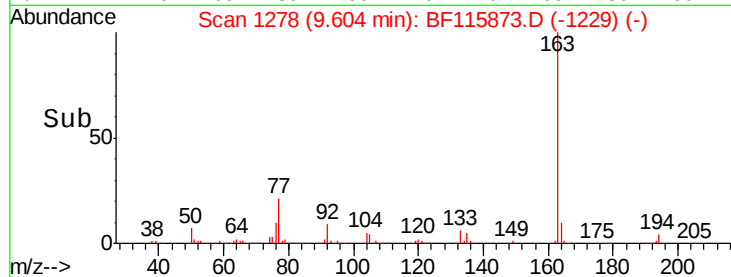
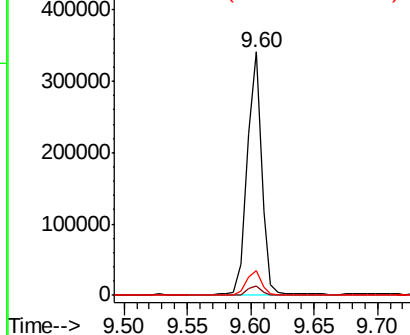
Tot Ion:	163	Resp:	266997
Ion Ratio	Lower	Upper	
163	100		
194	3.8	3.0	4.6
164	10.4	8.4	12.6

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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



#52

Acenaphthene

Concen: 2.660 ng

RT: 9.92 min Scan# 1332

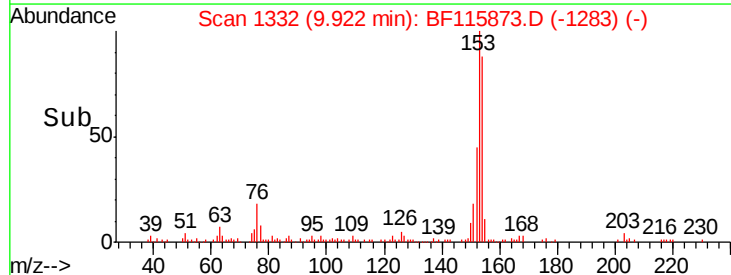
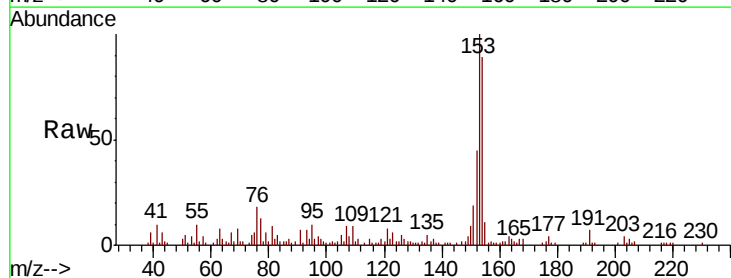
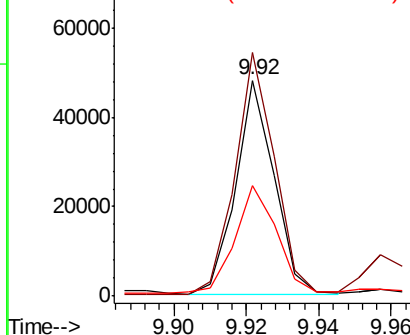
Delta R.T. -0.01 min

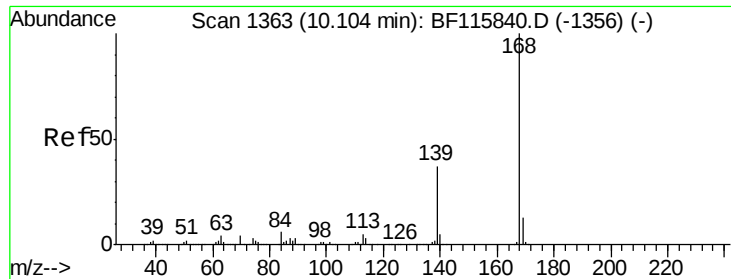
Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Tgt Ion:	154	Resp:	35507
Ion Ratio	Lower	Upper	
154	100		
153	112.9	90.1	135.1
152	51.3	42.6	63.8

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





#55

Dibenzenofuran

Concen: 3.820 ng

RT: 10.09 min Scan# 1361

Delta R.T. -0.01 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Instrument :

BNA_F

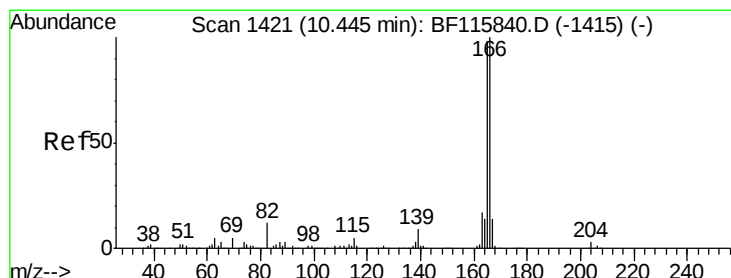
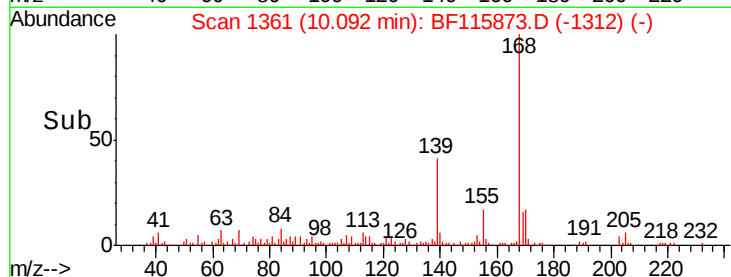
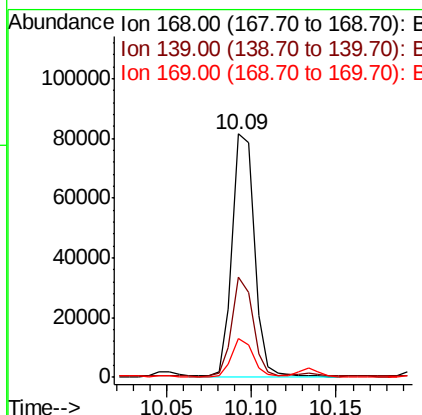
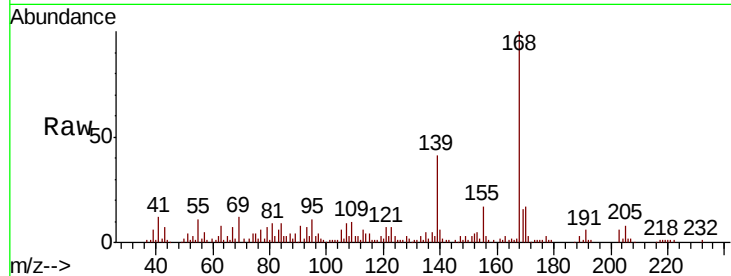
ClientSampleId :

SP-8

Tot Ion:	168	Resp:	74154
Ion	Ratio	Lower	Upper
168	100		
139	41.0	30.2	45.2
169	16.1	10.8	16.2

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#58

Fluorene

Concen: 3.827 ng

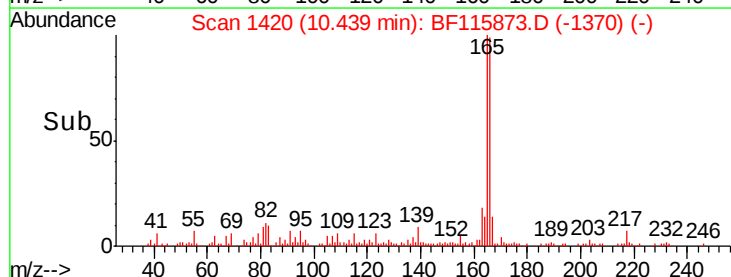
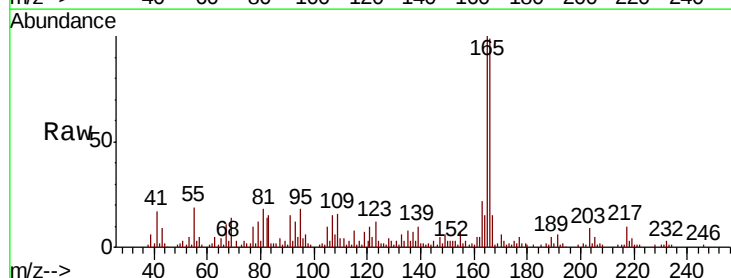
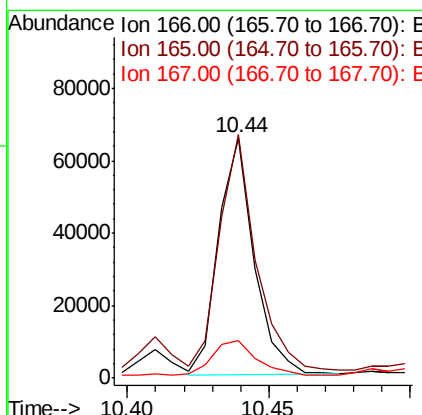
RT: 10.44 min Scan# 1420

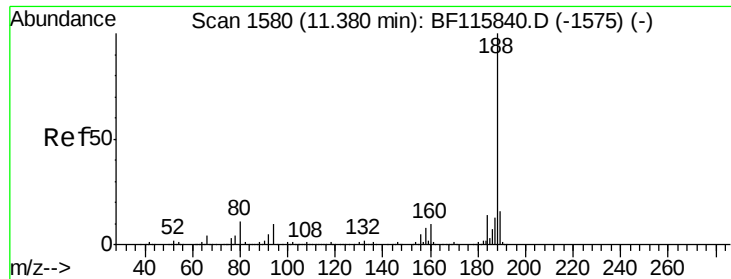
Delta R.T. -0.01 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Tgt Ion:	166	Resp:	57153
Ion	Ratio	Lower	Upper
166	100		
165	101.5	78.6	118.0
167	15.4	10.9	16.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.38 min Scan# 1580

Delta R.T. 0.00 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Instrument :

BNA_F

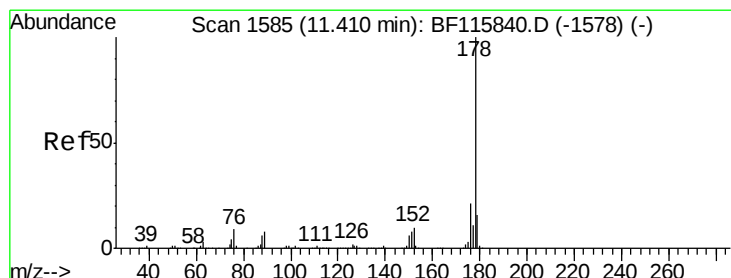
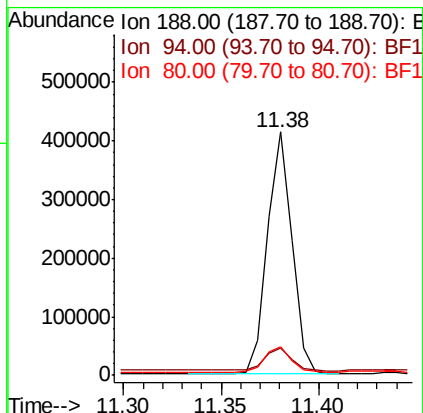
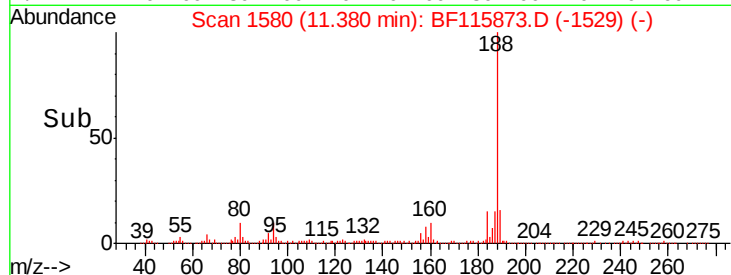
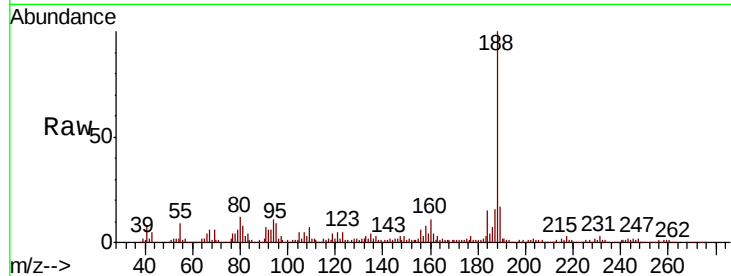
ClientSampled :

SP-8

Tot Ion:	188	Resp:	361373
Ion Ratio	Lower	Upper	
188	100		
94	11.4	8.0	12.0
80	11.6	8.6	12.8

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#71

Phenanthrene

Concen: 58.918 ng

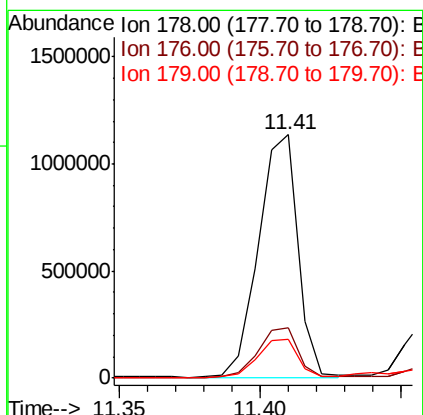
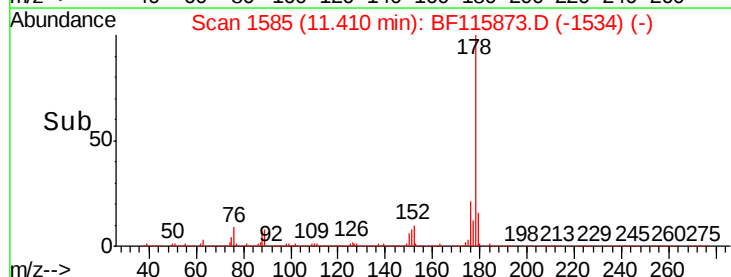
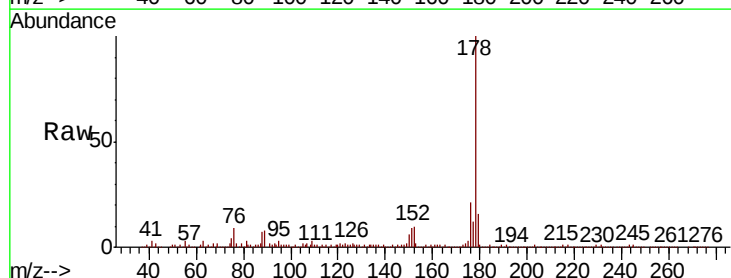
RT: 11.41 min Scan# 1585

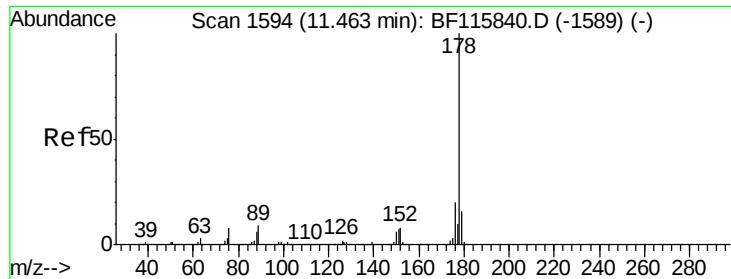
Delta R.T. 0.00 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Tgt Ion:	178	Resp:	1088457
Ion Ratio	Lower	Upper	
178	100		
176	20.9	16.5	24.7
179	16.0	12.6	18.8





#72

Anthracene

Concen: 10.156 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Instrument :

BNA_F

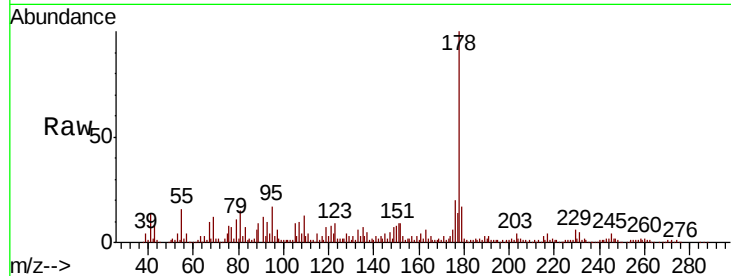
ClientSampled :

SP-8

Tot Ion:	178	Resp:	189881
Ion Ratio	Lower	Upper	
178	100		
176	20.2	15.7	23.5
179	17.0	12.4	18.6

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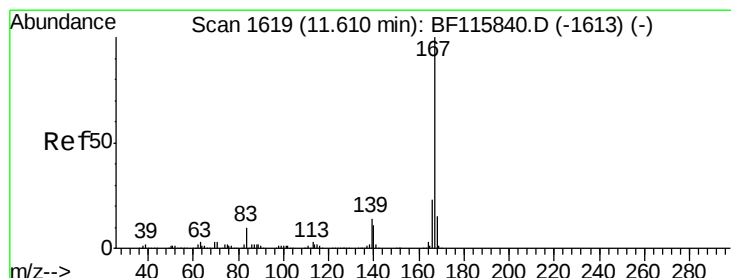
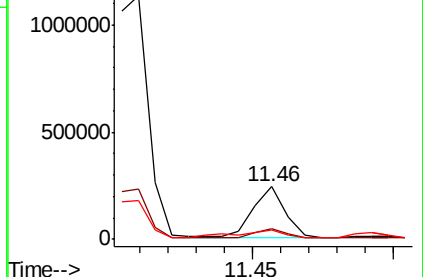
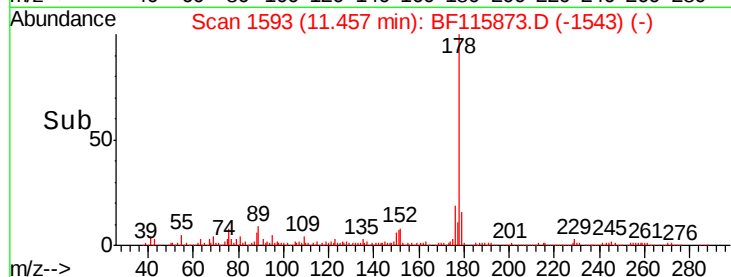


Abundance

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: 7.529 ng

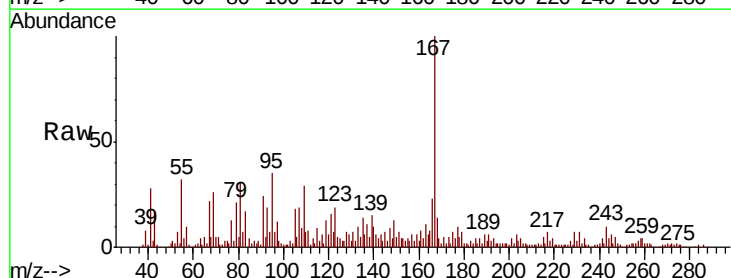
RT: 11.61 min Scan# 1619

Delta R.T. 0.00 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Tgt Ion:	167	Resp:	127715
Ion Ratio	Lower	Upper	
167	100		
166	23.1	18.0	27.0
139	15.1	11.4	17.2

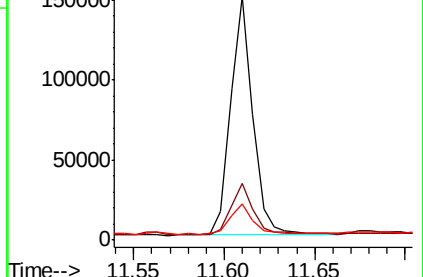
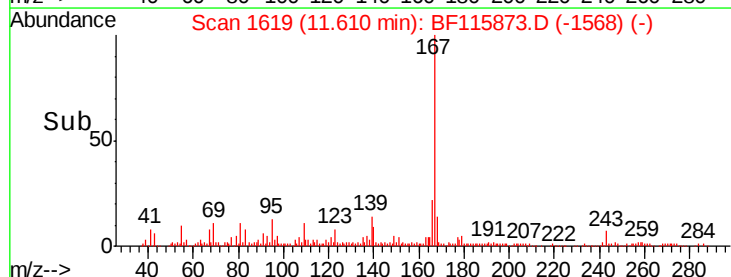


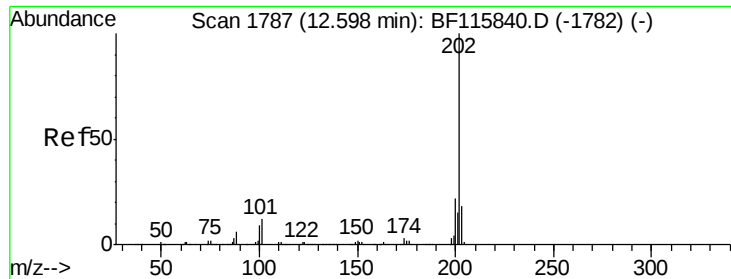
Abundance

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: 80.901 ng

RT: 12.61 min Scan# 1789

Delta R.T. 0.01 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Instrument :

BNA_F

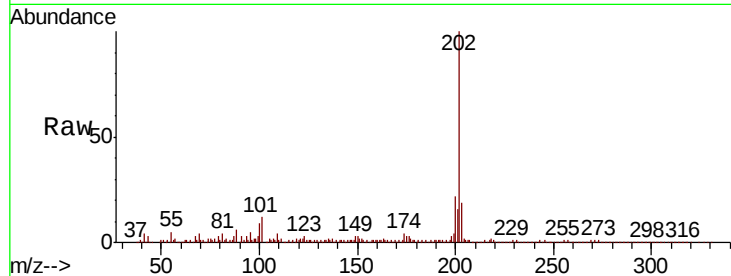
ClientSampleId :

SP-8

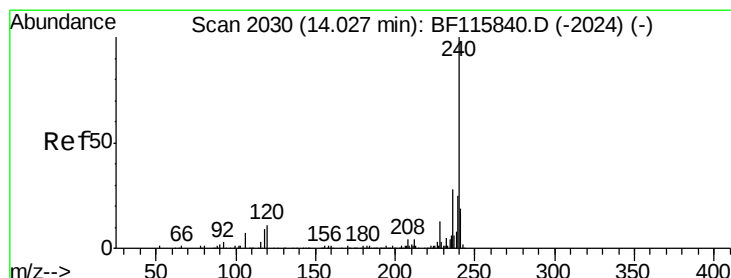
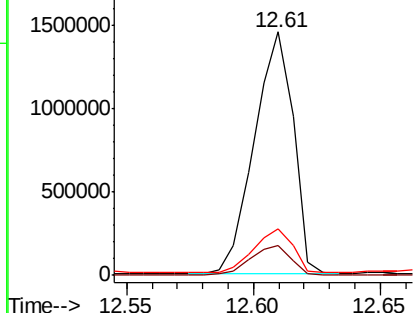
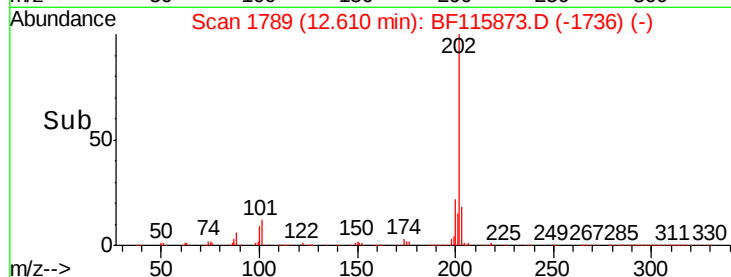
Tot Ion:	202	Resp:	1564667
Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	31.5
203	19.1	0.0	37.9

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Abundance Ion 202.00 (201.70 to 202.70): E
2000000
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

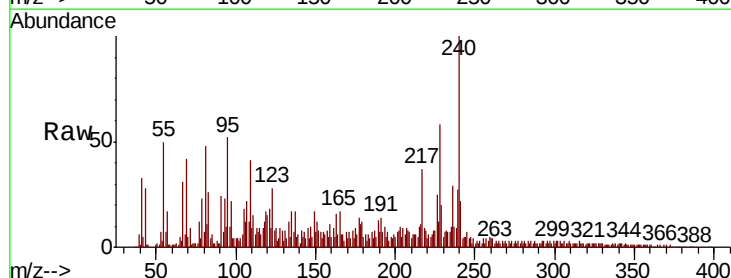
RT: 14.05 min Scan# 2034

Delta R.T. 0.02 min

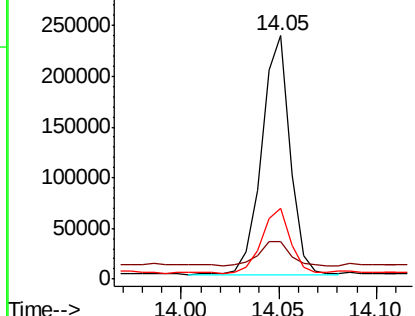
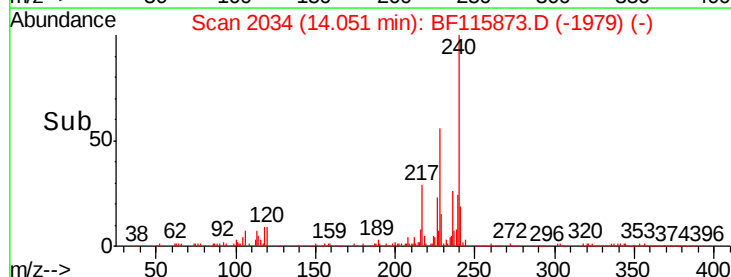
Lab File: BF115873.D

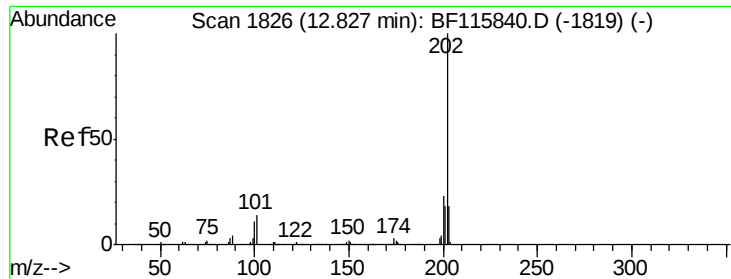
Acq: 31 Jul 2019 18:32

Tgt Ion:	240	Resp:	236515
Ion	Ratio	Lower	Upper
240	100		
120	15.2	8.5	12.7#
236	29.0	22.2	33.2



Abundance Ion 240.00 (239.70 to 240.70): E
300000
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





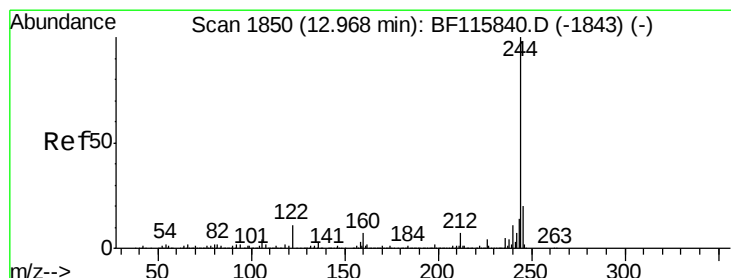
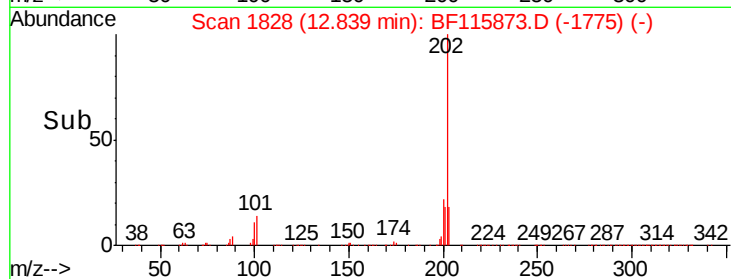
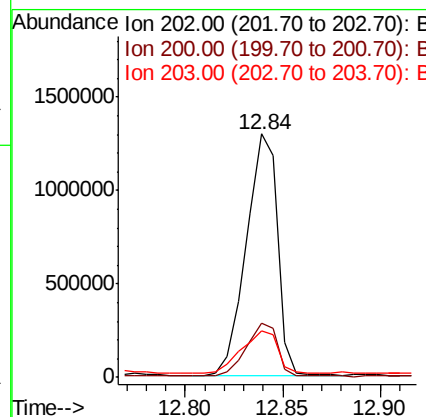
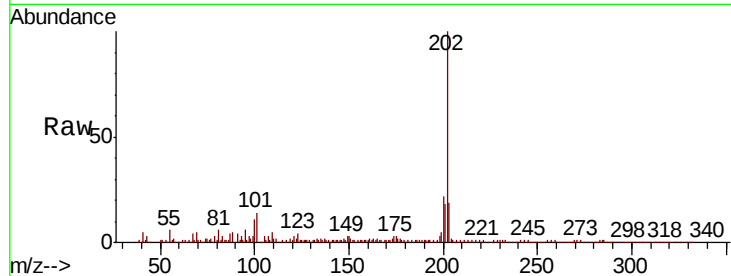
#78
Pvrene
Concen: 80.417 ng
RT: 12.84 min Scan# 1828
Delta R.T. 0.01 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Instrument :
BNA_F
ClientSampleId :
SP-8

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.4	18.2	27.2
203	19.1	14.3	21.5

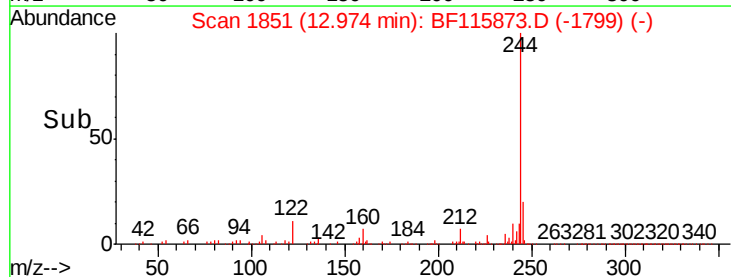
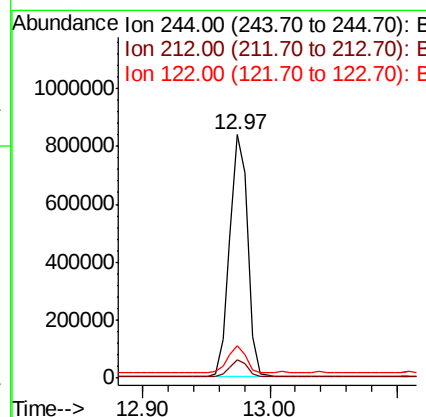
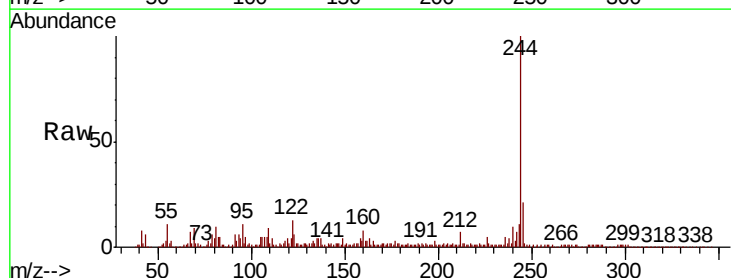
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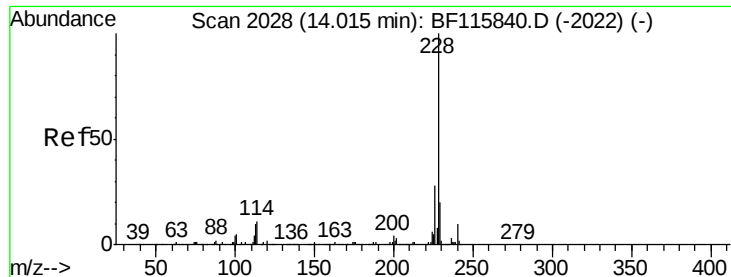
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#79
Terphenyl-d14
Concen: 72.868 ng
RT: 12.97 min Scan# 1851
Delta R.T. 0.01 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.6	8.4
122	13.2	8.6	13.0





#81

Benzo(a)anthracene

Concen: 50.542 ng

RT: 14.04 min Scan# 2032

Delta R.T. 0.02 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Instrument :

BNA_F

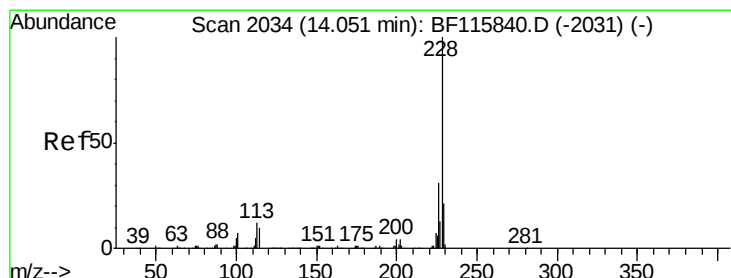
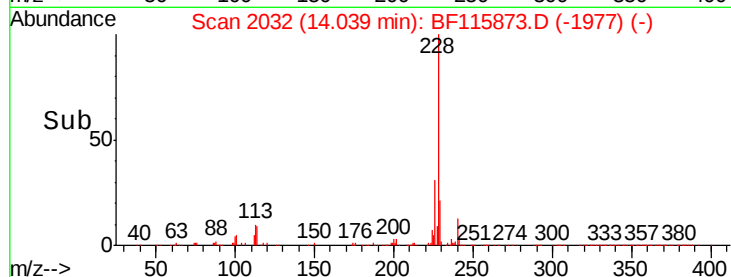
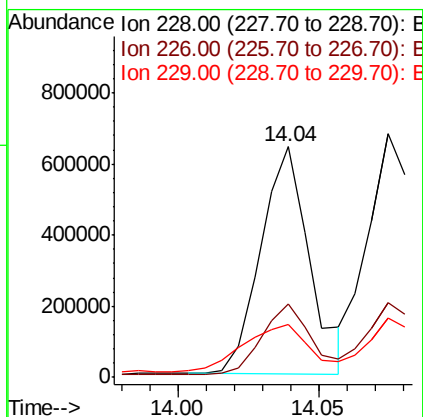
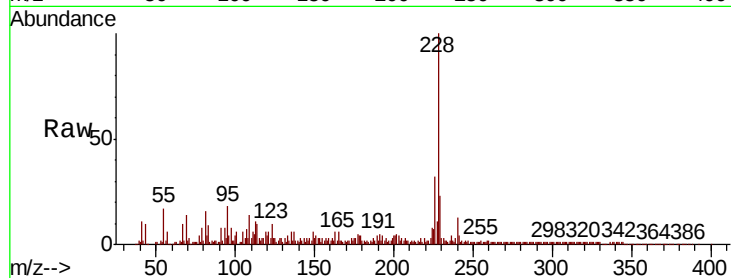
ClientSampleId :

SP-8

Tot Ion:	228	Resp:	764059
Ion Ratio	Lower	Upper	
228	100		
226	32.0	22.5	33.7
229	22.8	16.1	24.1

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#83

Chrysene

Concen: 48.796 ng

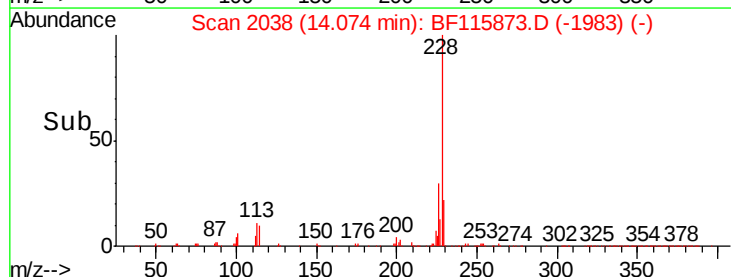
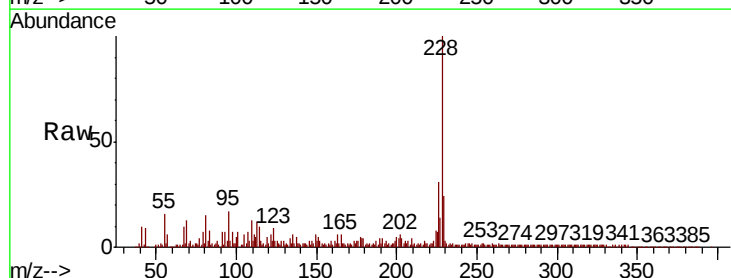
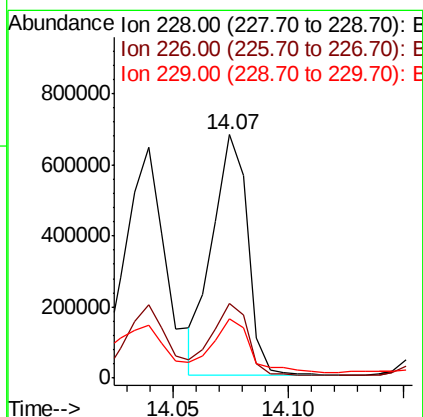
RT: 14.07 min Scan# 2038

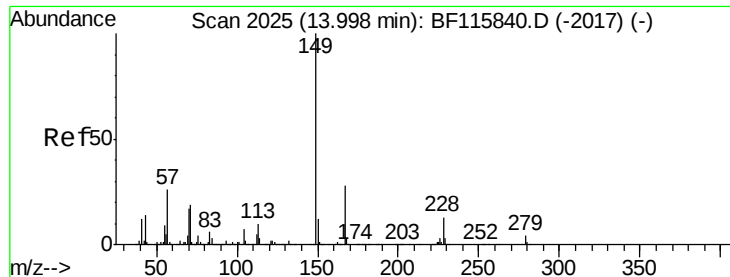
Delta R.T. 0.02 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Tgt Ion:	228	Resp:	716157
Ion Ratio	Lower	Upper	
228	100		
226	30.9	24.8	37.2
229	24.3	16.4	24.6





#84

Bis(2-ethylhexyl)phthalate

Concen: 5.192 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.02 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Instrument :

BNA_F

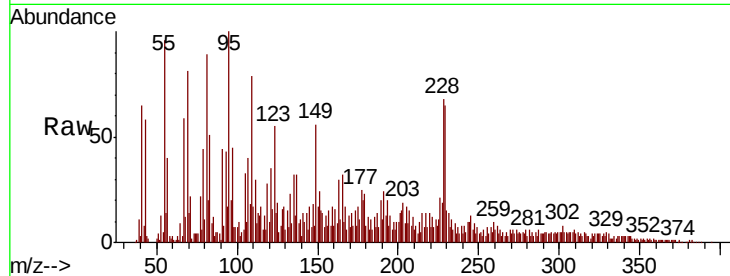
ClientSampled :

SP-8

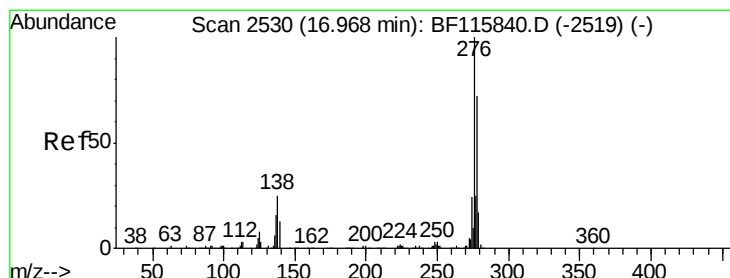
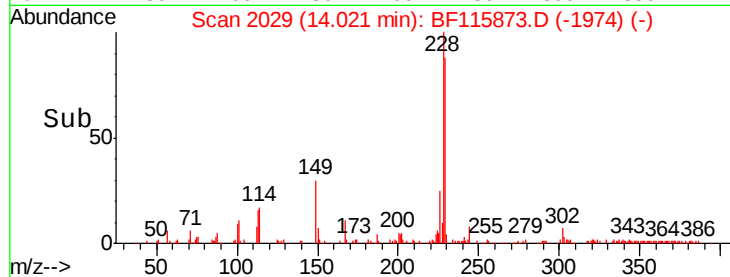
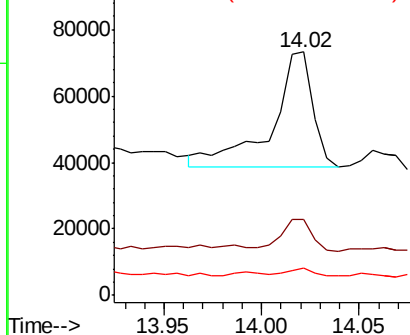
Tot Ion:	149	Resp:	50880
Ion Ratio	Lower	Upper	
149	100		
167	31.0	22.4	33.6
279	11.1	3.3	4.9#

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 35.171 ng

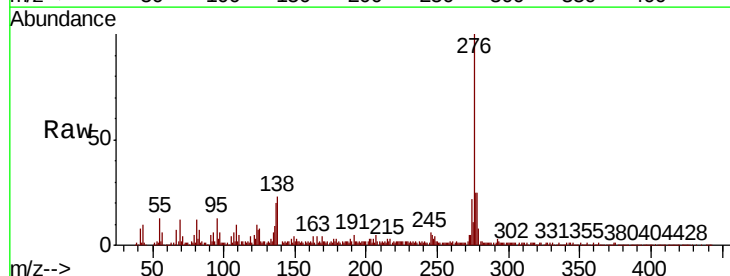
RT: 17.02 min Scan# 2539

Delta R.T. 0.05 min

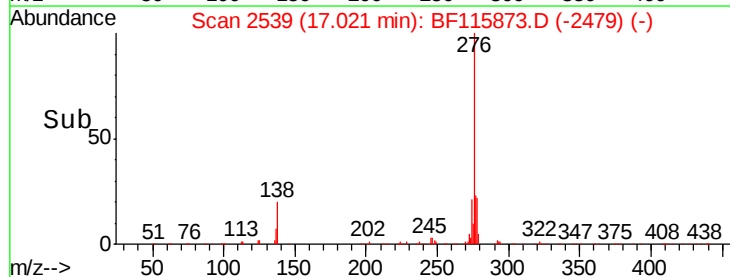
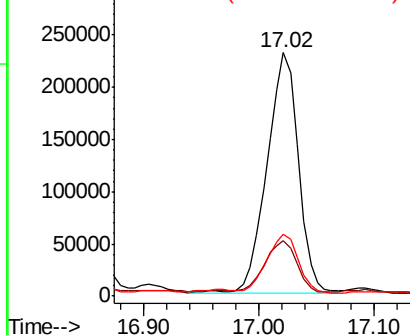
Lab File: BF115873.D

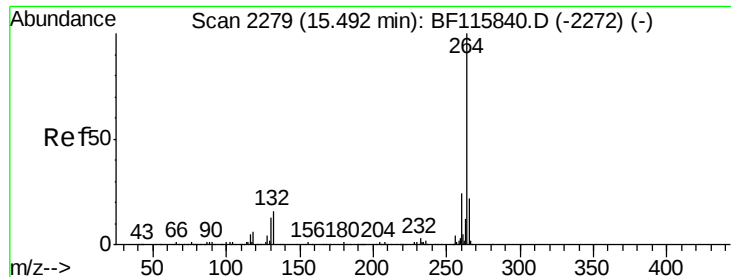
Acq: 31 Jul 2019 18:32

Tgt Ion:	276	Resp:	433542
Ion Ratio	Lower	Upper	
276	100		
138	21.6	19.6	29.4
277	24.6	20.1	30.1



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: 15.54 min Scan# 2288

Delta R.T. 0.05 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Instrument :

BNA_F

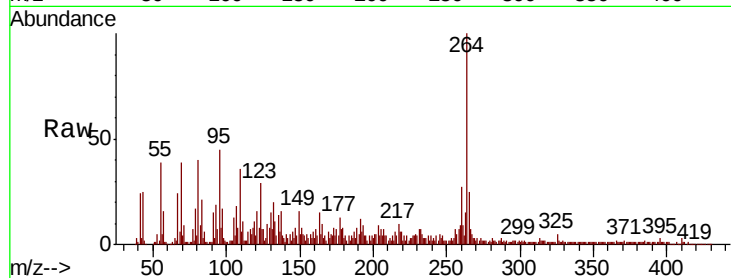
ClientSampleId :

SP-8

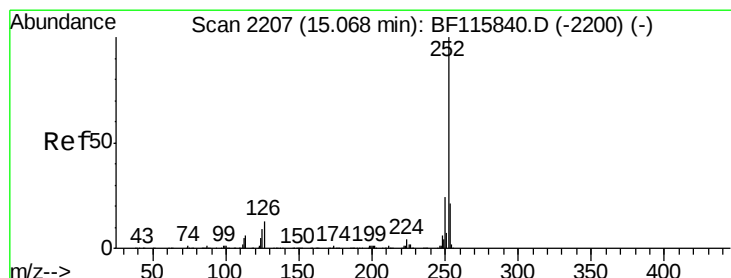
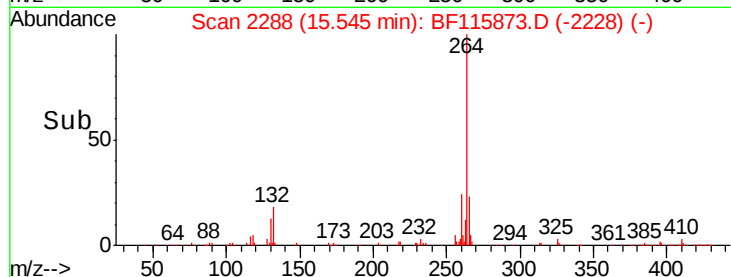
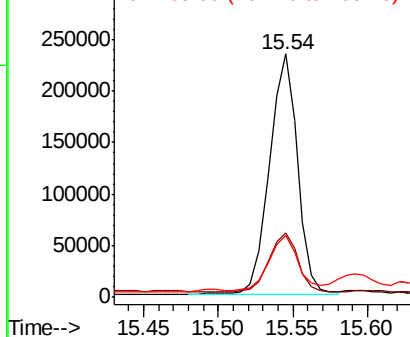
Tot Ion:	264	Resp:	305099
Ion Ratio	Lower	Upper	
264	100		
260	26.6	19.4	29.2
265	25.1	17.5	26.3

Manual Integrations
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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: 56.482 ng m

RT: 15.12 min Scan# 2215

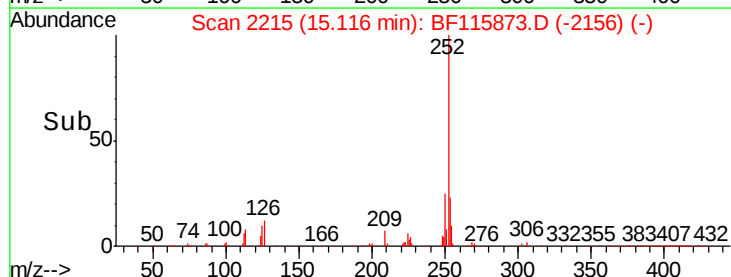
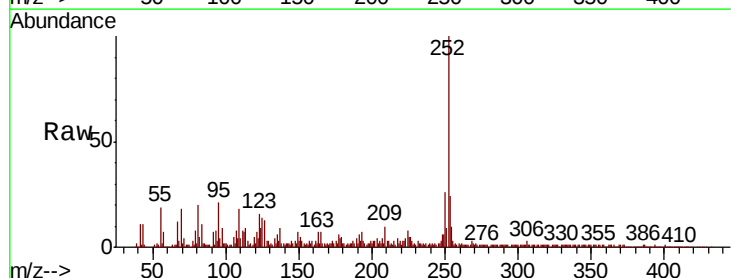
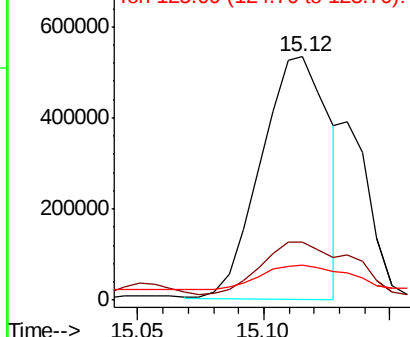
Delta R.T. 0.05 min

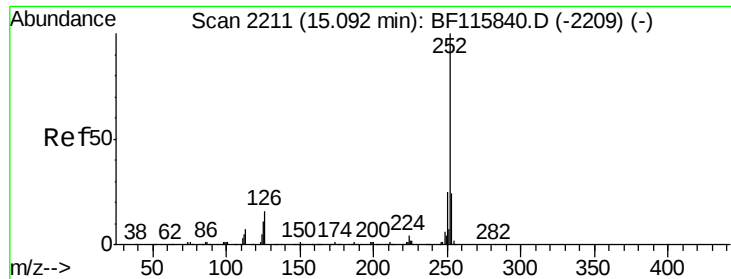
Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Tgt Ion:	252	Resp:	996409
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.2	25.8
125	14.4	7.4	11.0#

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: 18.228 ng m

RT: 15.13 min Scan# 2218

Delta R.T. 0.04 min

Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Instrument :

BNA_F

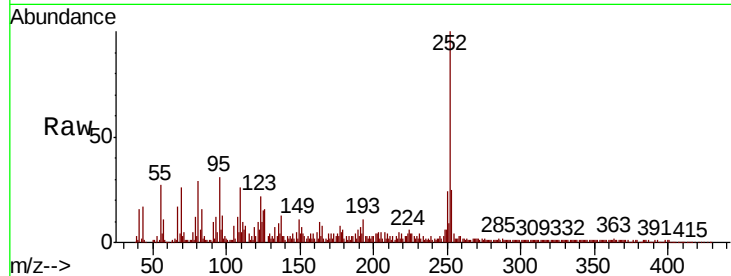
ClientSampleId :

SP-8

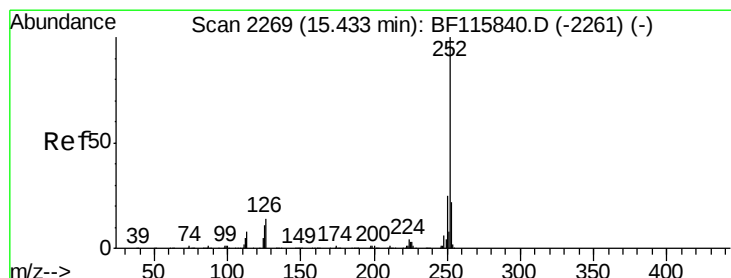
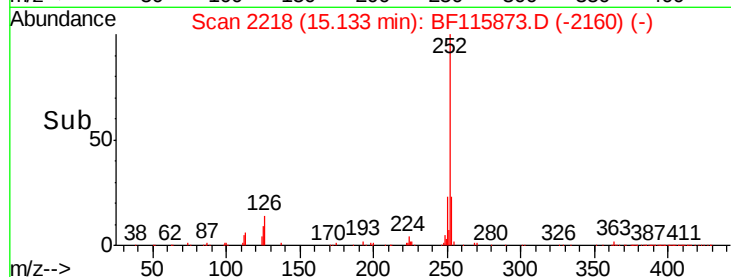
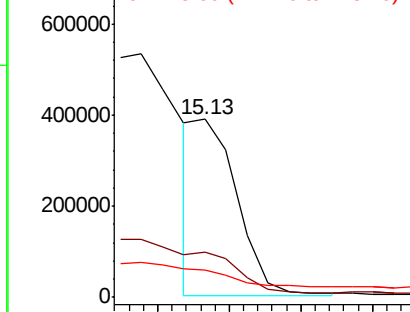
Tot Ion:	252	Resp:	313205
Ion Ratio	Lower	Upper	
252	100		
253	25.2	18.2	27.4
125	15.3	8.9	13.3#

Manual Integrations
APPROVED

mohammad
8/1/2019 5:06:46 PM



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



#90

Benzo(a)pyrene

Concen: 44.047 ng m

RT: 15.49 min Scan# 2278

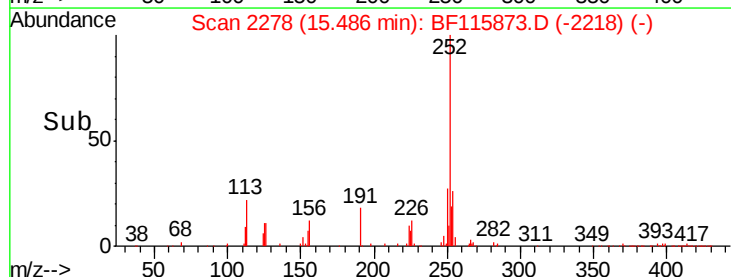
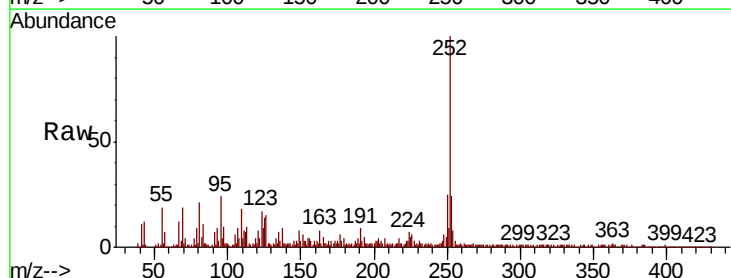
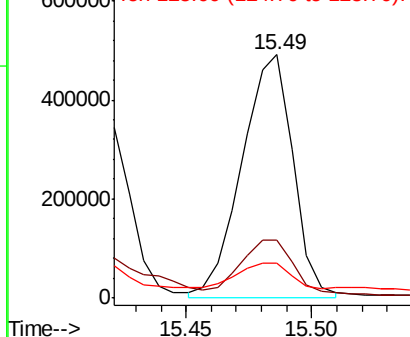
Delta R.T. 0.05 min

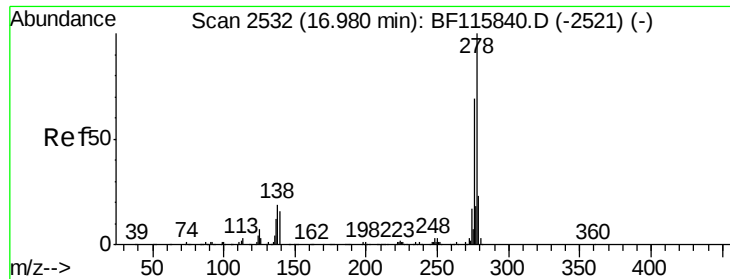
Lab File: BF115873.D

Acq: 31 Jul 2019 18:32

Tgt Ion:	252	Resp:	694623
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.8	26.6
125	14.4	8.8	13.2#

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





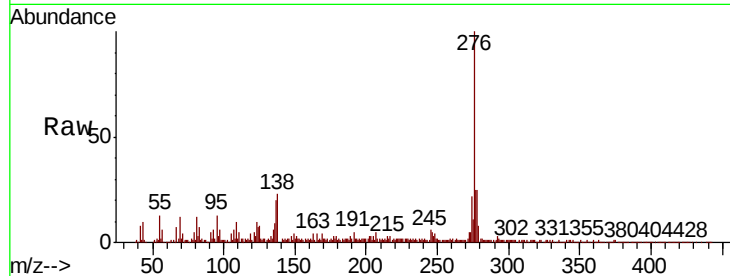
#91
Dibenzo(a,h)anthracene
Concen: 8.393 ng
RT: 17.02 min Scan# 2539
Delta R.T. 0.04 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Instrument :
BNA_F
ClientSampleId :
SP-8

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.6	19.0#
279	31.3	18.8	28.2#

Manual Integrations
APPROVED

mohammad
8/1/2019 5:06:46 PM

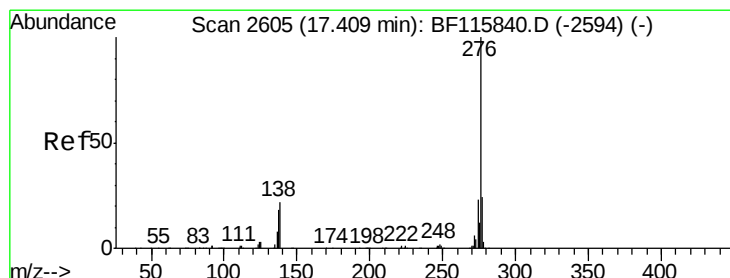
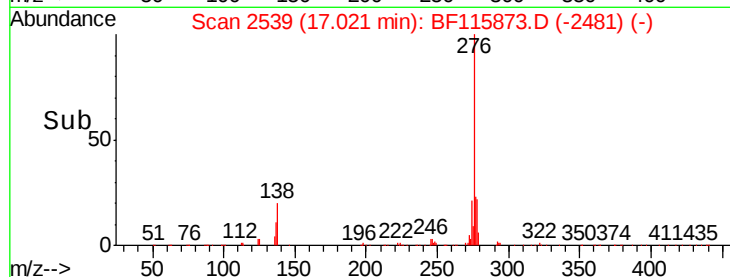
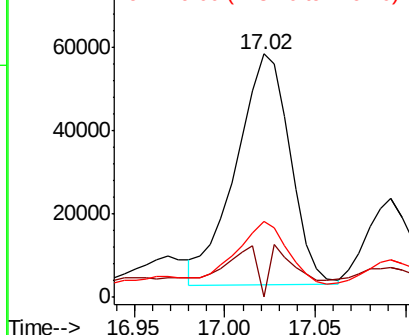


Abundance

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: 29.095 ng
RT: 17.47 min Scan# 2615
Delta R.T. 0.06 min
Lab File: BF115873.D
Acq: 31 Jul 2019 18:32

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.5	29.3
138	22.4	17.8	26.8

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

