

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
 Data File : BF117608.D
 Acq On : 29 Oct 2019 23:53
 Operator : JU
 Sample : K5576-14 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CSA-2-1-3

Manual Integrations
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Quant Time: Oct 30 04:57:04 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	32681	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	120336	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	50315	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	81339	20.00	ng	0.00
76) Chrysene-d12	13.90	240	61507	20.00	ng	0.00
87) Perylene-d12	15.34	264	47121	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.37	112	42222	19.22	ng	0.02
7) Phenol-d6	6.40	99	54591	18.50	ng	0.02
23) Nitrobenzene-d5	7.30	82	29223	11.99	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	7787	17.89	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	51491	14.42	ng	-0.01
79) Terphenyl-d14	12.83	244	53541	14.20	ng	0.00

Target Compounds

						Qvalue
49) Acenaphthylene	9.62	152	125619	27.231	ng	99
58) Fluorene	10.32	166	12716	3.750	ng	98
71) Phenanthrene	11.27	178	161371	34.167	ng	97
72) Anthracene	11.33	178	152912	31.553	ng	100
73) Carbazole	11.49	167	36260	8.187	ng	98
75) Fluoranthene	12.47	202	716035	151.441	ng	98
78) Pyrene	12.70	202	642552	121.624	ng	99
80) Butylbenzylphthalate	13.30	149	45728	17.394	ng	97
81) Benzo(a)anthracene	13.89	228	378615	91.257	ng	97
83) Chrysene	13.93	228	343829	84.558	ng	97
84) Bis(2-ethylhexyl)phthalate	13.86	149	12453	3.381	ng	98
86) Indeno(1,2,3-cd)pyrene	16.76	276	91001	29.976	ng	96
88) Benzo(b)fluoranthene	14.93	252	342243m	122.996	ng	
89) Benzo(k)fluoranthene	14.96	252	77947m	27.331	ng	
90) Benzo(a)pyrene	15.29	252	165039	65.235	ng	97
91) Dibenzo(a,h)anthracene	16.75	278	23744	10.854	ng	# 92
92) Benzo(g,h,i)perylene	17.19	276	82162	39.696	ng	99

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

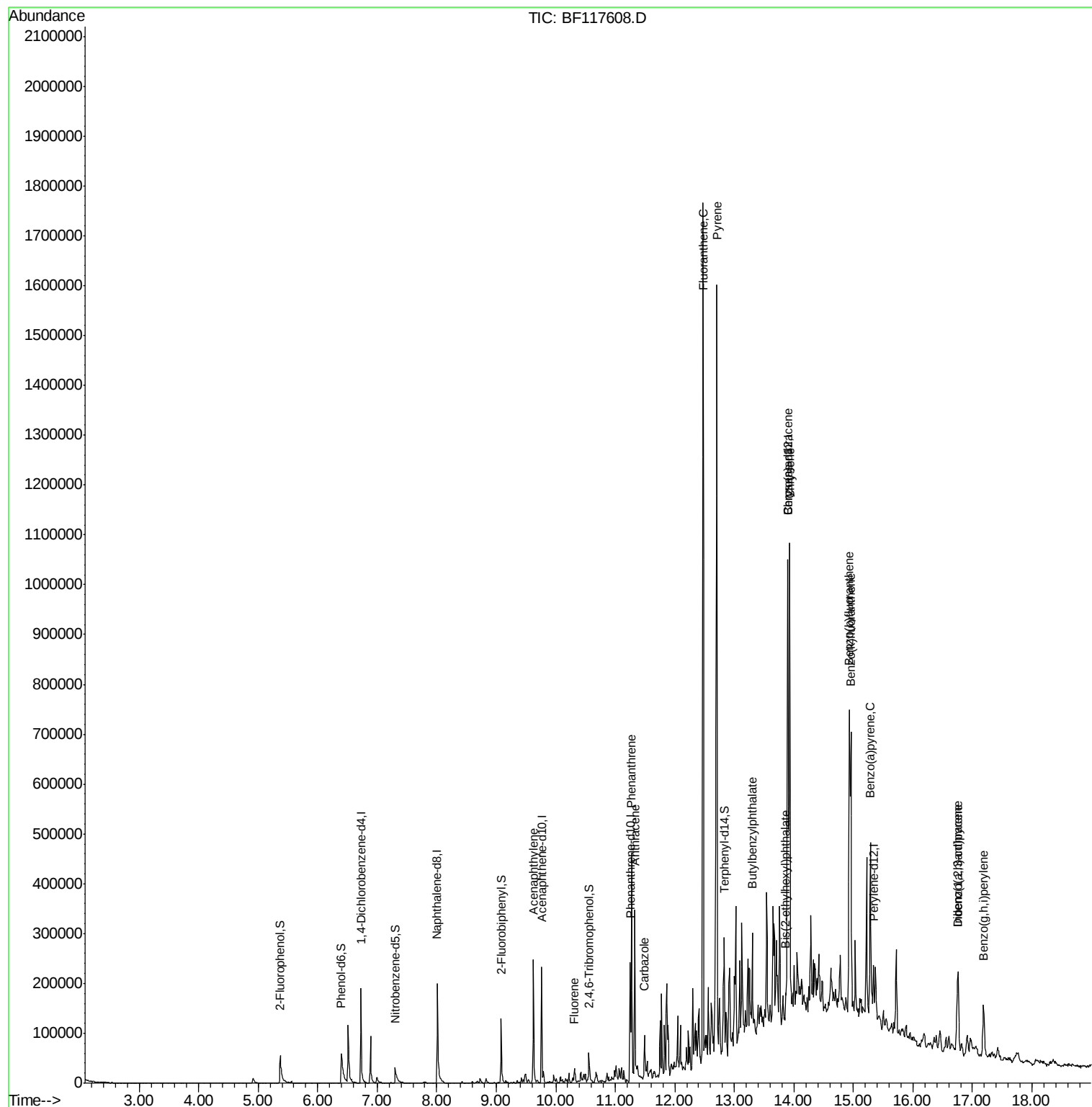
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
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#1

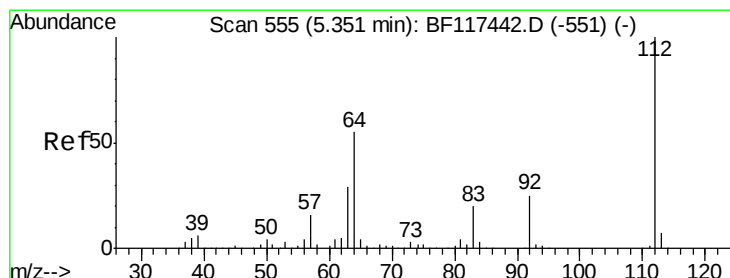
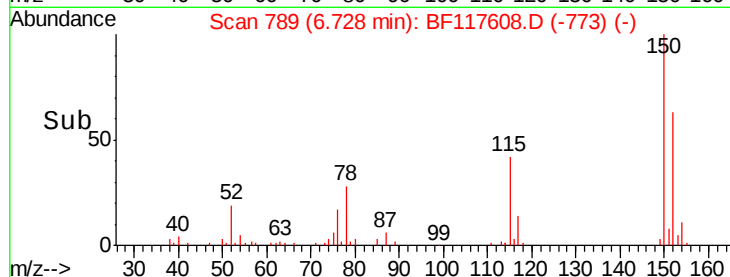
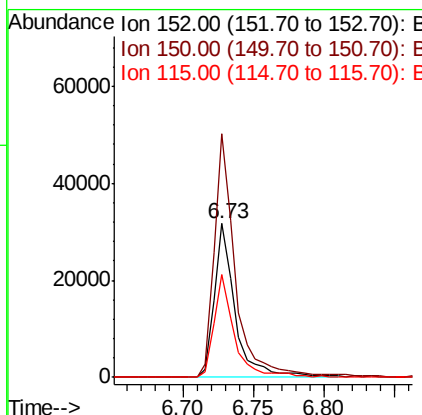
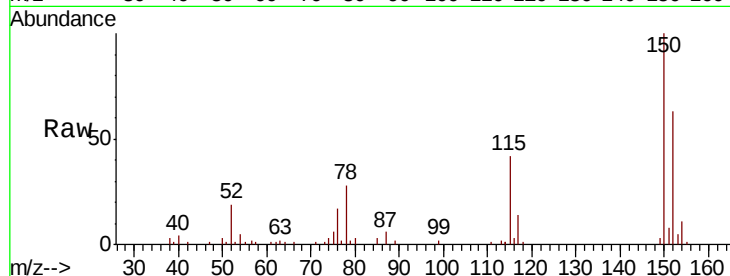
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	126.8	190.2
115	66.5	51.6	77.4

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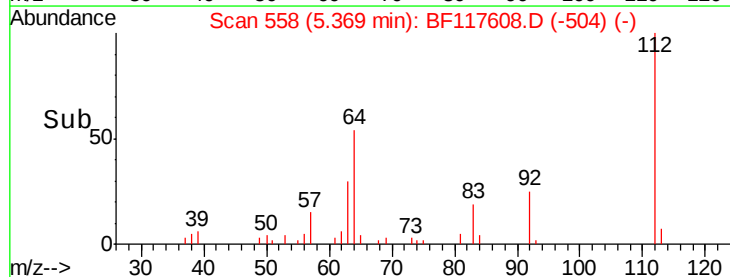
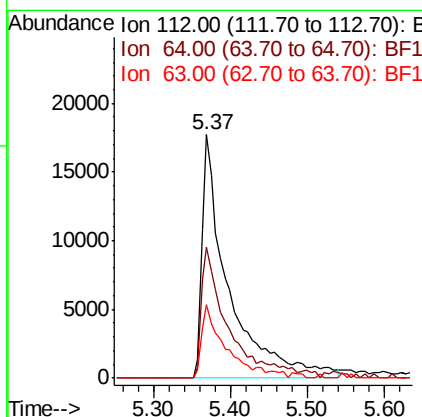
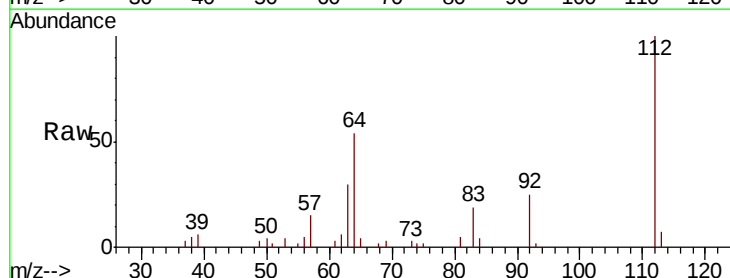
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#5

2-Fluorophenol
Concen: 19.220 ng
RT: 5.37 min Scan# 558
Delta R.T. 0.02 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.6	44.1	66.1
63	30.3	23.4	35.2





#7

Phenol-d6

Concen: 18.502 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.02 min

Lab File: BF117608.D

Acq: 29 Oct 2019 23:53

Instrument :

BNA_F

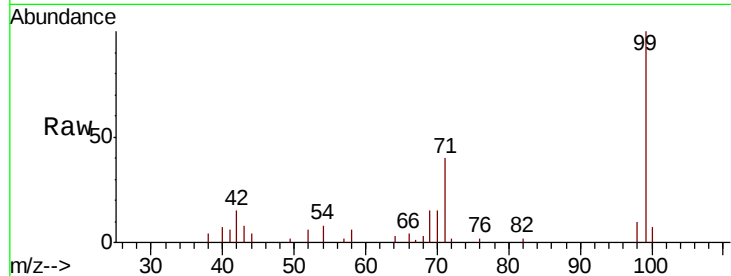
ClientSampleId :

CSA-2-1-3

Tot Ion:	99	Resp:	54591
Ion Ratio	Lower	Upper	
99	100		
42	15.4	12.8	19.2
71	39.7	28.6	43.0

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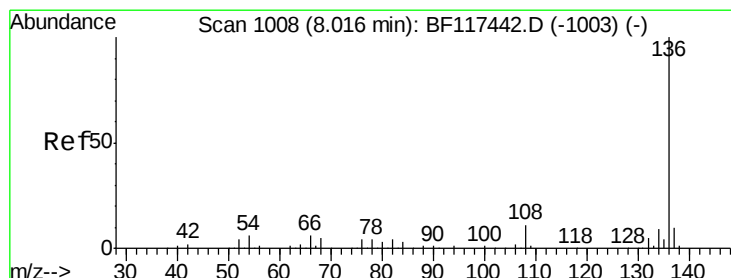
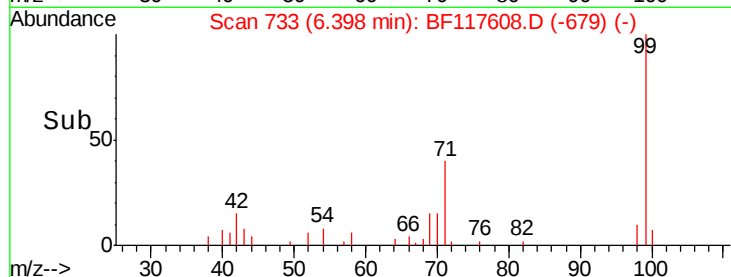
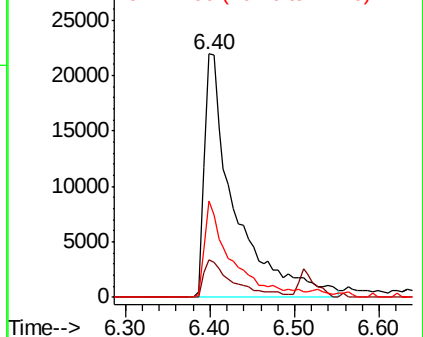


Abundance

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: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117608.D

Acq: 29 Oct 2019 23:53

Tgt Ion:	136	Resp:	120336
Ion Ratio	Lower	Upper	
136	100		
137	10.3	8.2	12.4
54	6.2	4.5	6.7
68	5.3	4.3	6.5

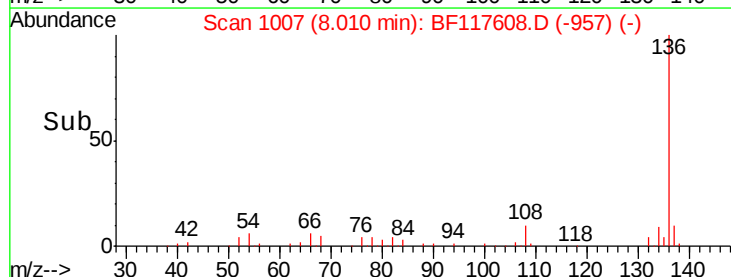
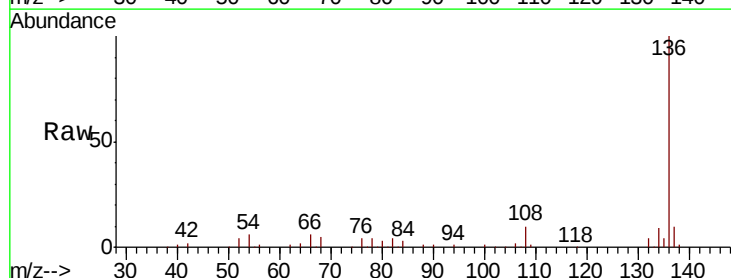
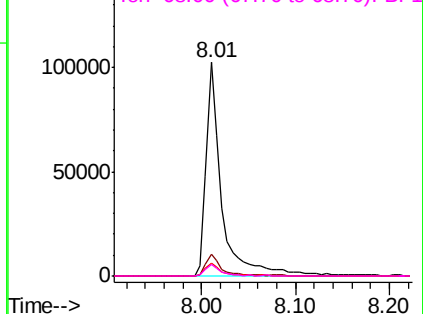
Abundance

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





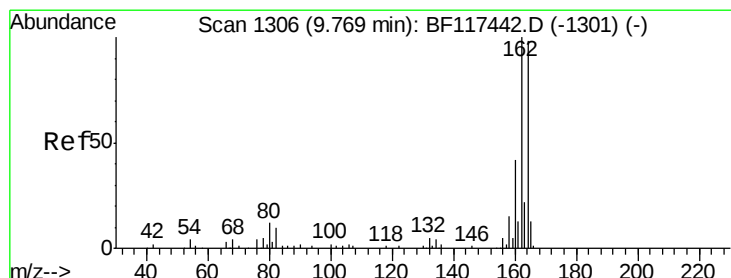
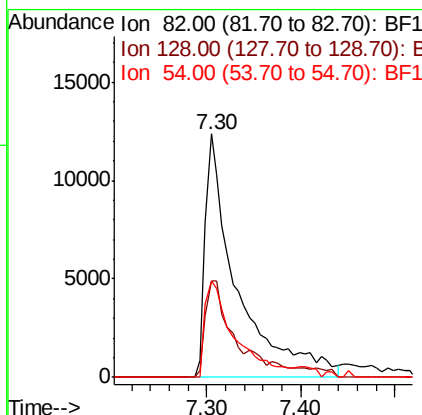
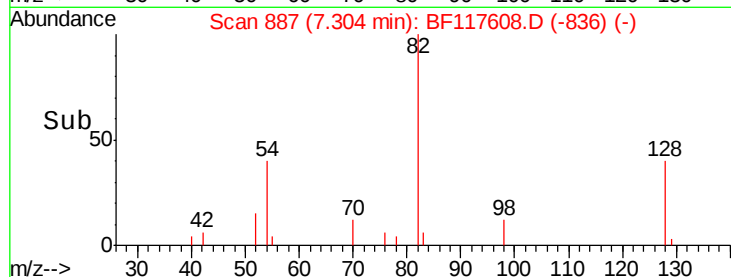
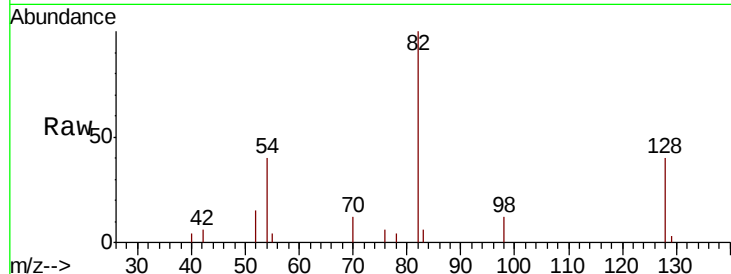
#23
Nitrobenzene-d5
Concen: 11.989 ng
RT: 7.30 min Scan# 887
Delta R.T. -0.00 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-3

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.5	32.2	48.2
54	39.8	34.2	51.2

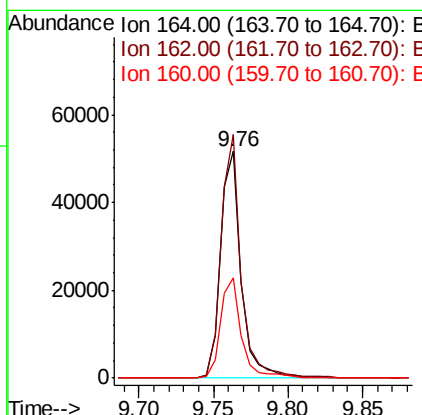
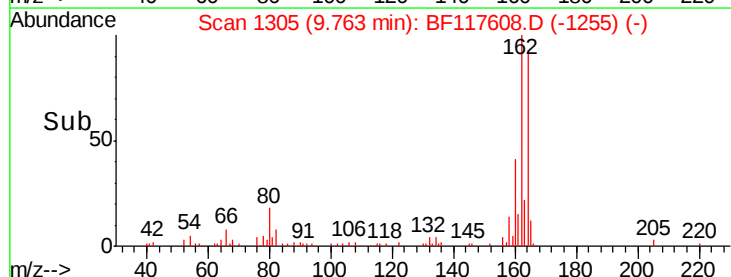
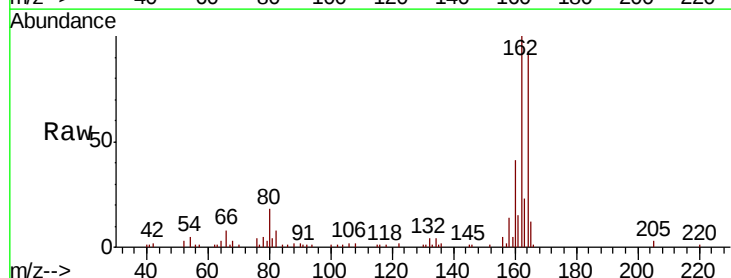
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.3	81.8	122.6
160	44.0	34.4	51.6





#42

2,4,6-Tribromophenol

Concen: 17.887 ng

RT: 10.56 min Scan# 1441

Delta R.T. 0.00 min

Lab File: BF117608.D

Acq: 29 Oct 2019 23:53

Instrument :

BNA_F

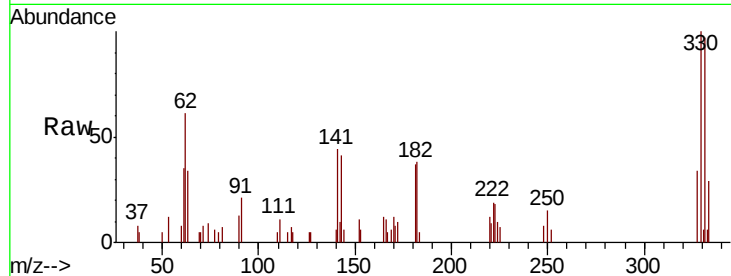
ClientSampleId :

CSA-2-1-3

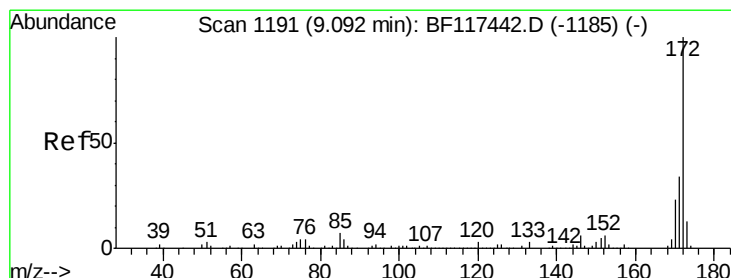
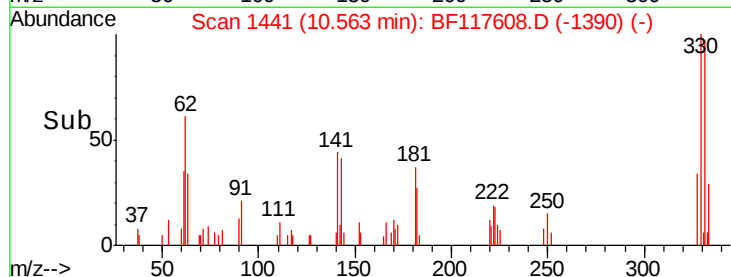
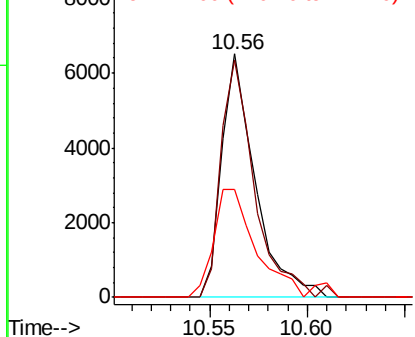
Tot Ion:	330	Resp:	7787
Ion Ratio	Lower	Upper	
330	100		
332	98.2	78.5	117.7
141	55.5	37.0	55.6

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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 14.419 ng

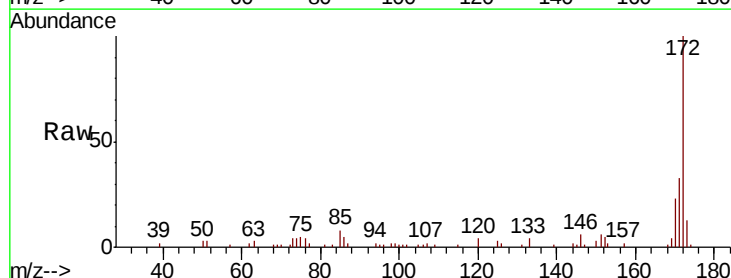
RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

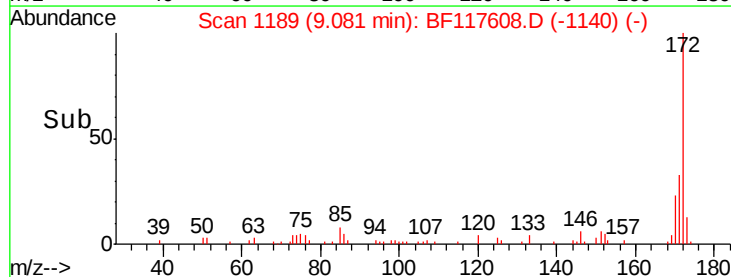
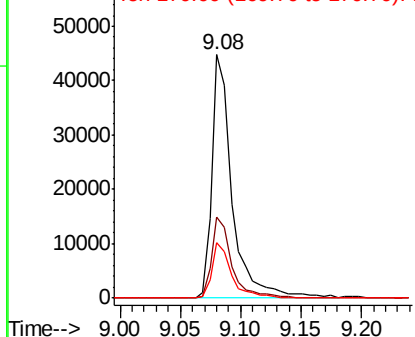
Lab File: BF117608.D

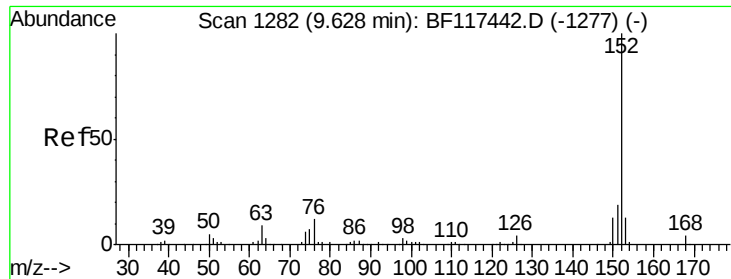
Acq: 29 Oct 2019 23:53

Tgt Ion:	172	Resp:	51491
Ion Ratio	Lower	Upper	
172	100		
171	33.3	27.5	41.3
170	22.5	18.6	27.8



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





#49

Acenaphthylene

Concen: 27.231 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF117608.D

Acq: 29 Oct 2019 23:53

Instrument :

BNA_F

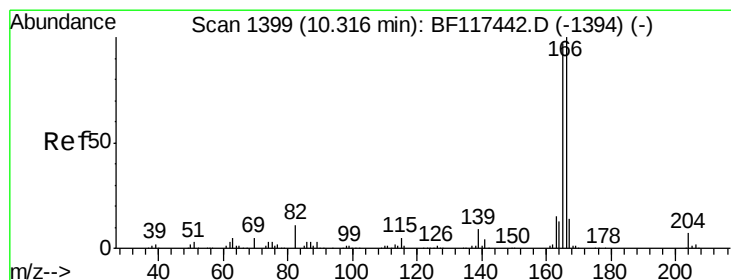
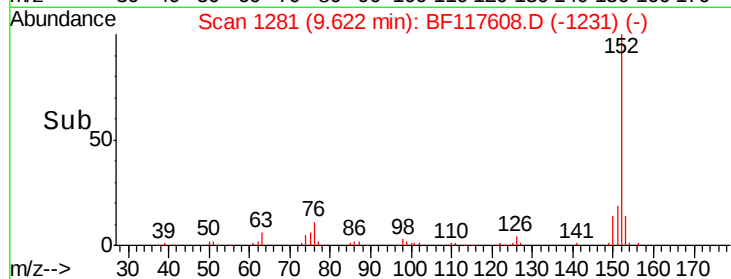
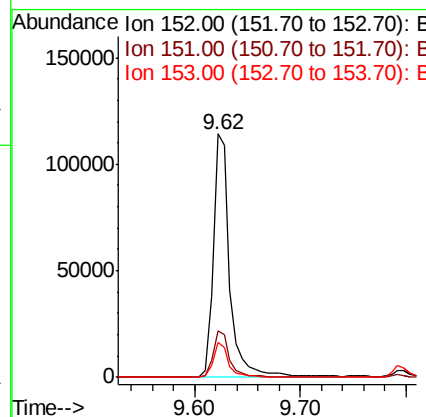
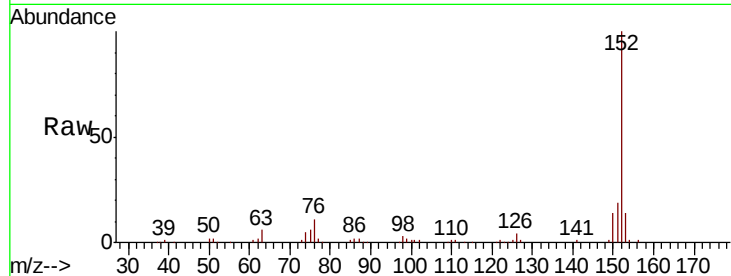
ClientSampleId :

CSA-2-1-3

Tot Ion:	152	Resp:	125619
Ion Ratio	Lower	Upper	
152	100		
151	19.2	15.4	23.0
153	14.1	10.3	15.5

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#58

Fluorene

Concen: 3.750 ng

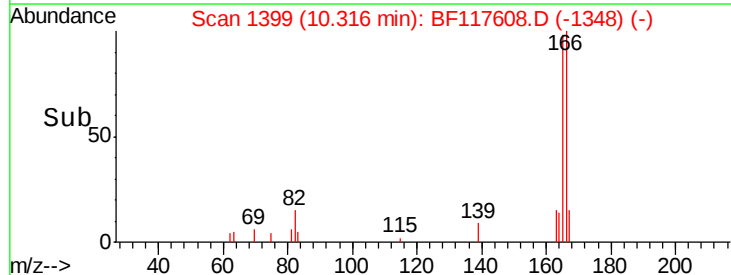
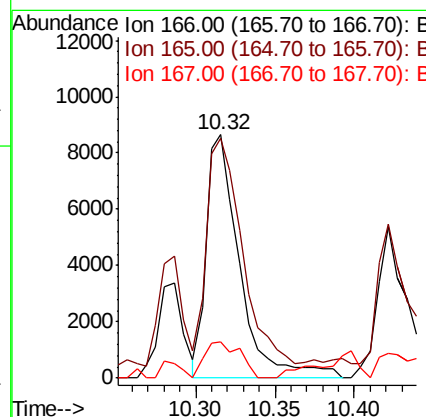
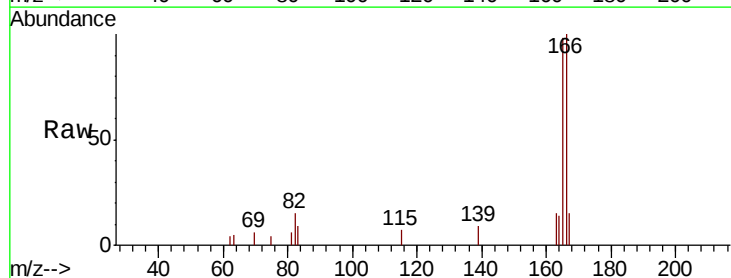
RT: 10.32 min Scan# 1399

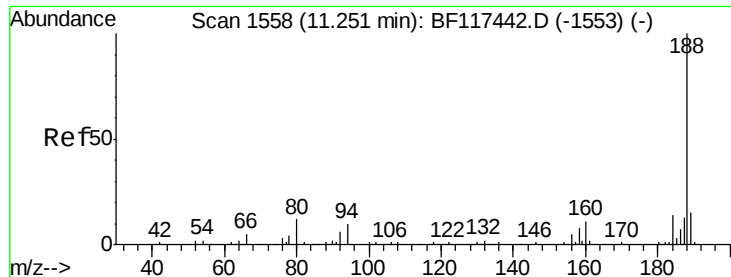
Delta R.T. 0.00 min

Lab File: BF117608.D

Acq: 29 Oct 2019 23:53

Tgt Ion:	166	Resp:	12716
Ion Ratio	Lower	Upper	
166	100		
165	98.5	77.6	116.4
167	14.9	11.0	16.4





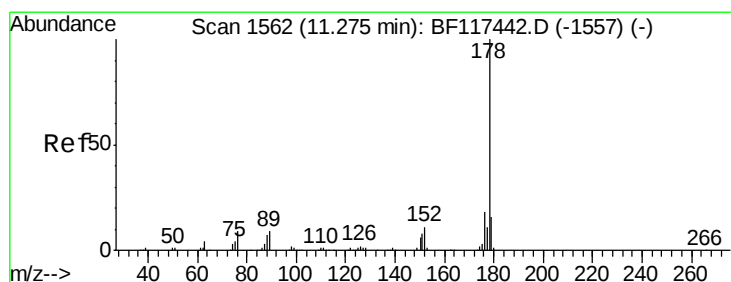
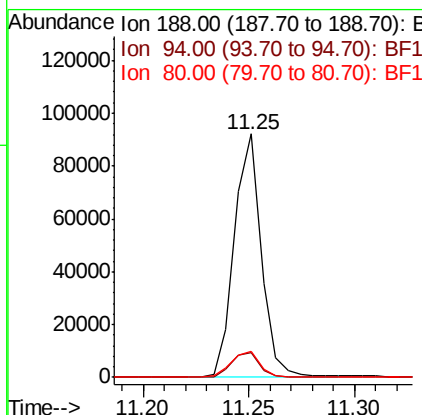
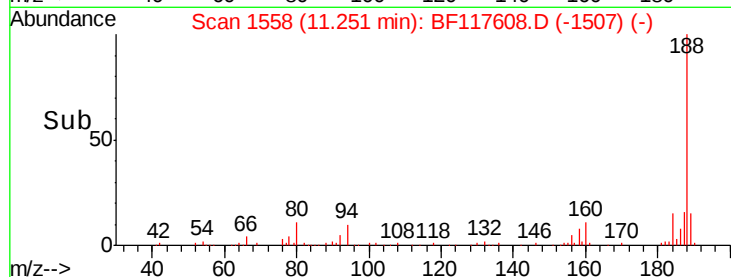
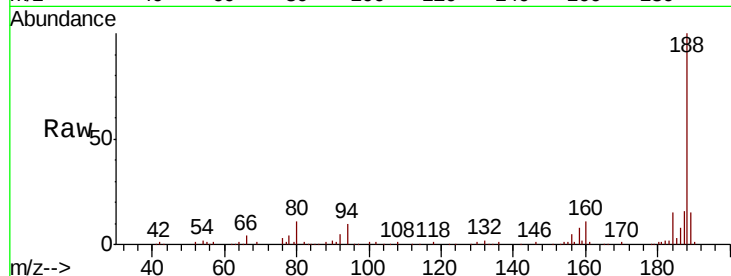
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1558
Delta R.T. 0.00 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Instrument :
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Tot Ion	Ratio	Resp	Lower	Upper
188	100	81339		
94	10.2		8.0	12.0
80	10.7		9.5	14.3

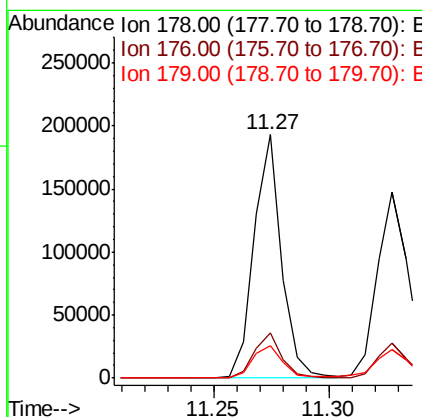
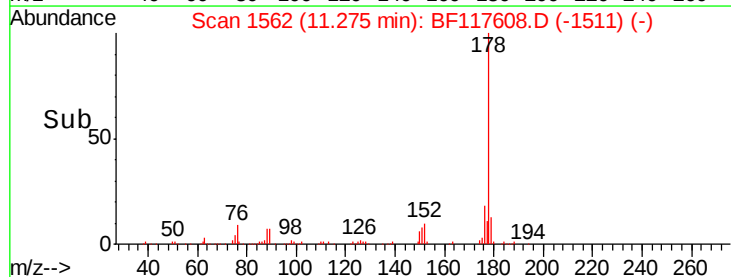
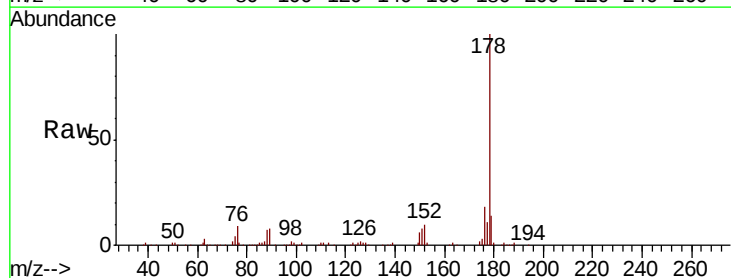
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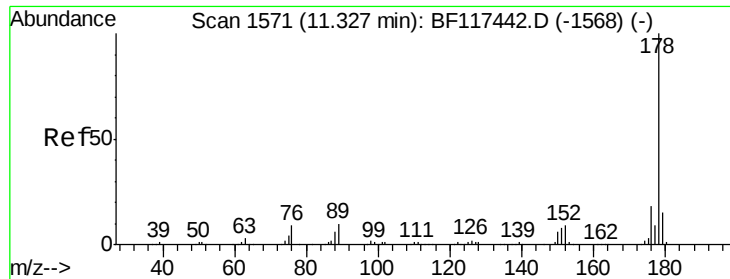
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#71
Phenanthrene
Concen: 34.167 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	161371		
176	18.5		14.6	22.0
179	13.6		12.6	19.0





#72

Anthracene

Concen: 31.553 ng

RT: 11.33 min Scan# 1571

Delta R.T. 0.00 min

Lab File: BF117608.D

Acq: 29 Oct 2019 23:53

Instrument :

BNA_F

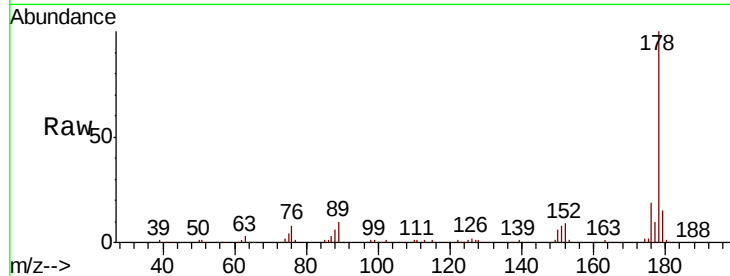
ClientSampleId :

CSA-2-1-3

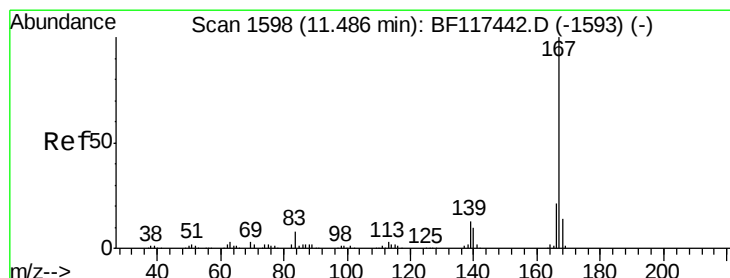
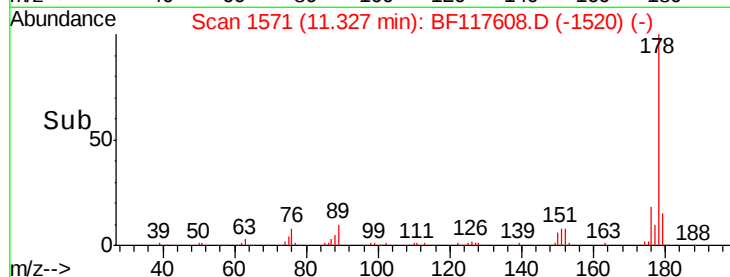
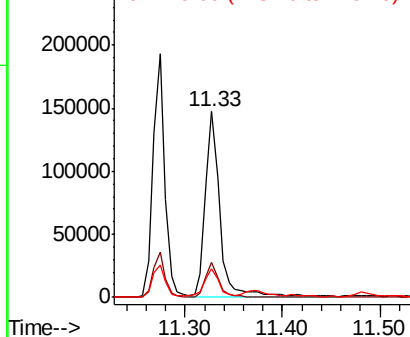
Tot Ion:	178	Resp:	152912
Ion Ratio	Lower	Upper	
178	100		
176	18.5	14.7	22.1
179	15.4	12.2	18.2

Manual Integrations
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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: 8.187 ng

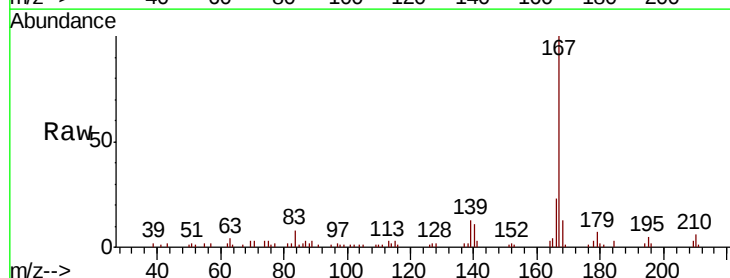
RT: 11.49 min Scan# 1599

Delta R.T. 0.01 min

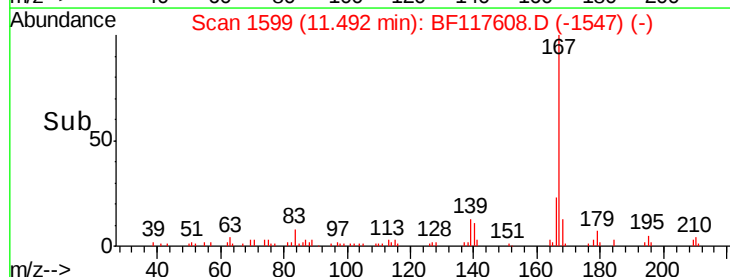
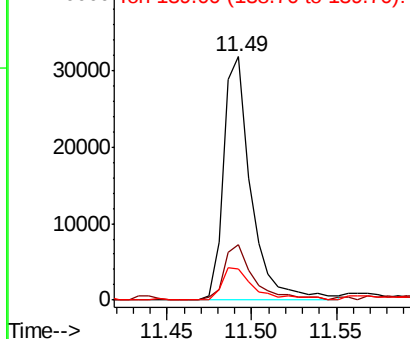
Lab File: BF117608.D

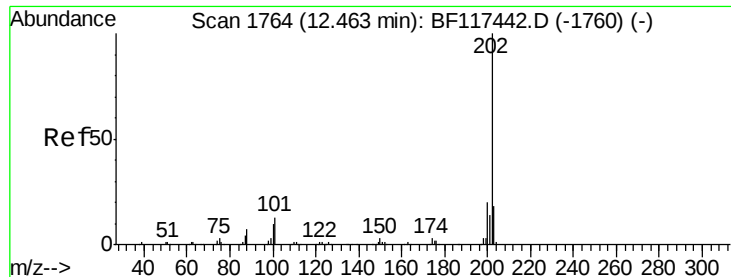
Acq: 29 Oct 2019 23:53

Tgt Ion:	167	Resp:	36260
Ion Ratio	Lower	Upper	
167	100		
166	22.5	17.0	25.6
139	13.0	10.6	16.0



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 151.441 ng

RT: 12.47 min Scan# 1766

Delta R.T. 0.01 min

Lab File: BF117608.D

Acq: 29 Oct 2019 23:53

Instrument :

BNA_F

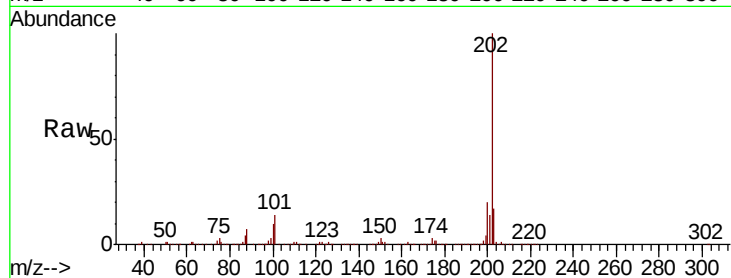
ClientSampleId :

CSA-2-1-3

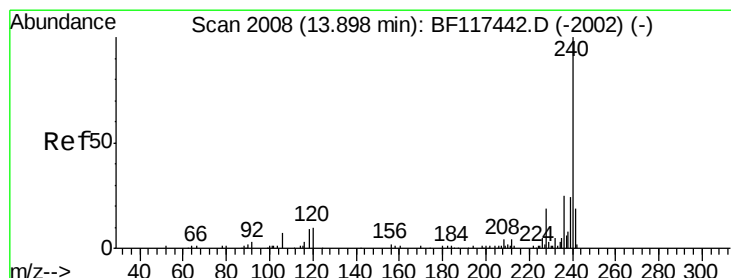
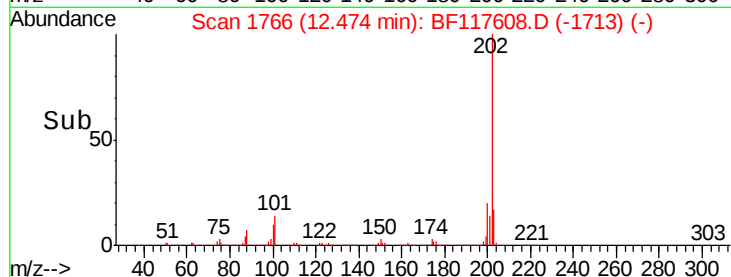
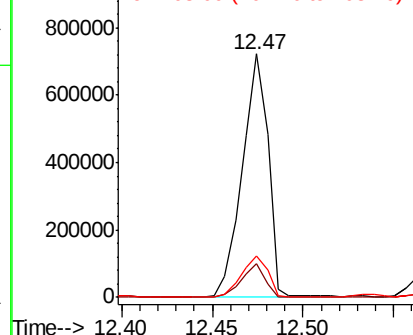
Tot Ion:	202	Resp:	716035
Ion Ratio		Lower	Upper
202	100		
101	14.0	0.0	32.7
203	17.2	0.0	37.6

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

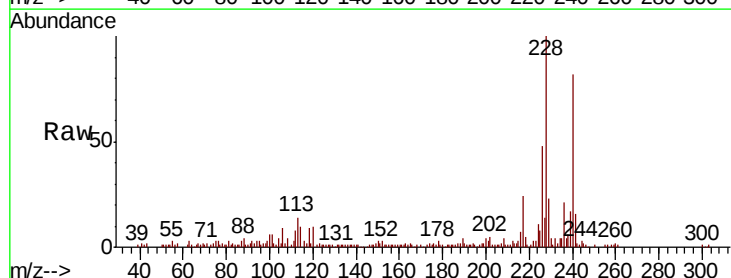
RT: 13.90 min Scan# 2009

Delta R.T. 0.01 min

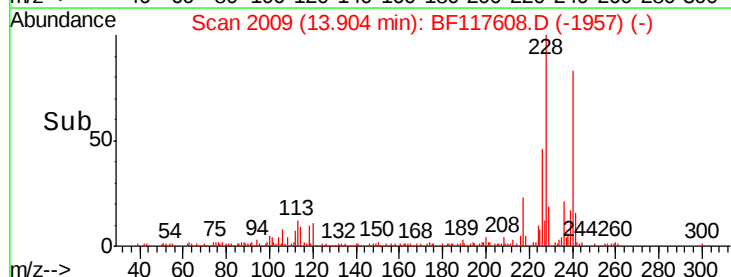
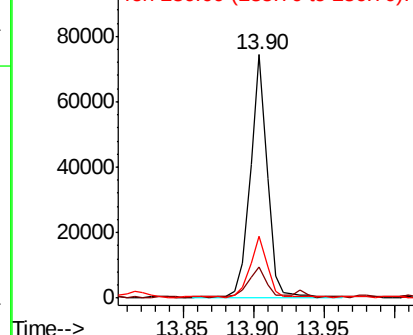
Lab File: BF117608.D

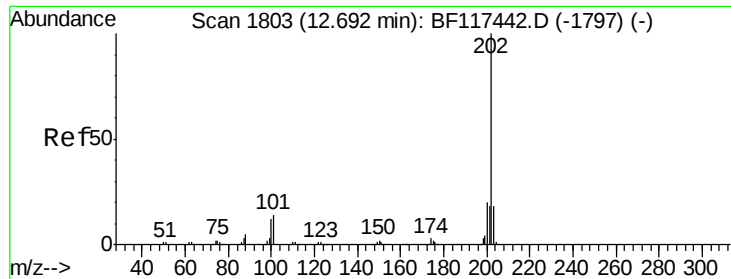
Acq: 29 Oct 2019 23:53

Tgt Ion:	240	Resp:	61507
Ion Ratio		Lower	Upper
240	100		
120	12.7	8.4	12.6#
236	25.2	20.0	30.0



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





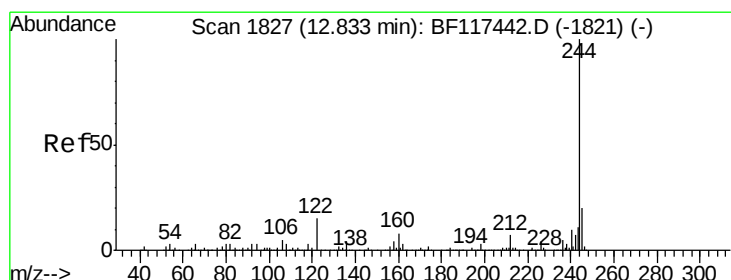
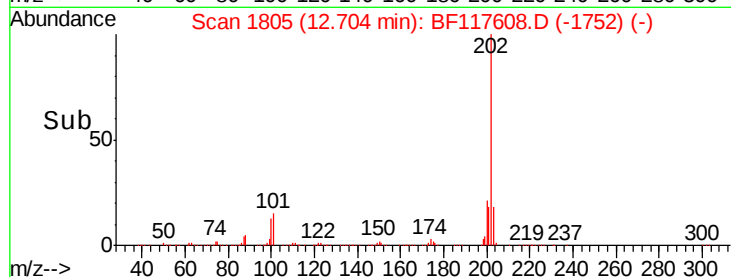
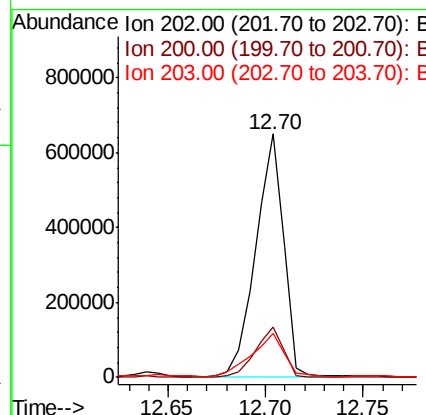
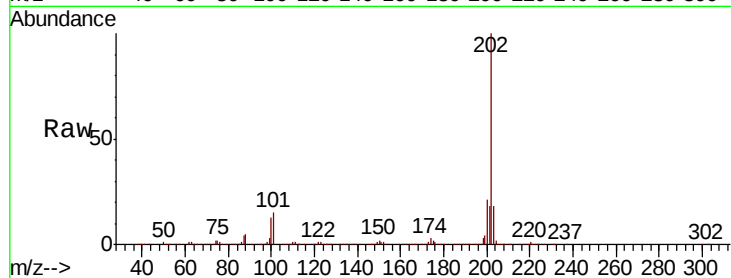
#78
Pvrene
Concen: 121.624 ng
RT: 12.70 min Scan# 1805
Delta R.T. 0.01 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-3

Tot Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.7	16.2	24.2
203	18.1	14.0	21.0

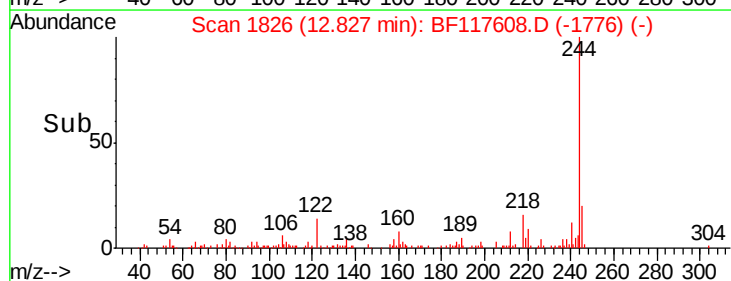
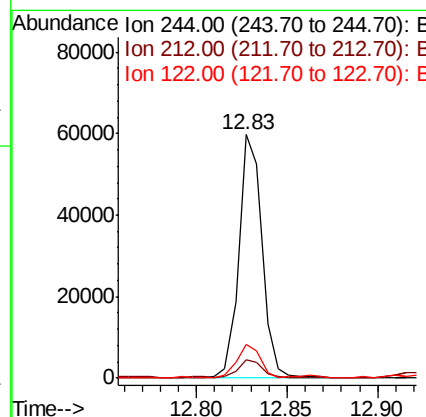
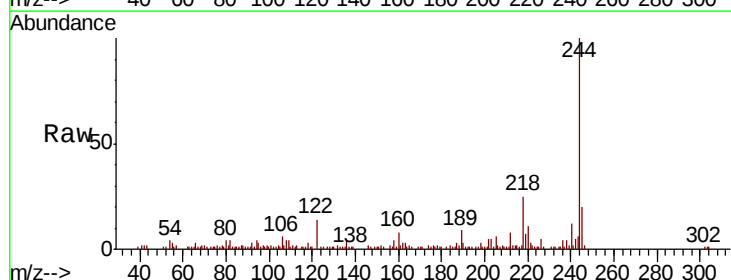
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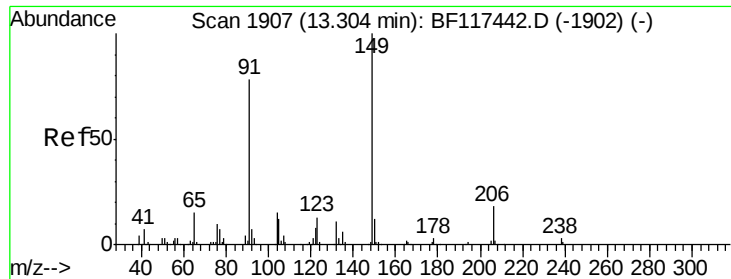
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#79
Terphenyl-d14
Concen: 14.199 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.5	5.8	8.6
122	13.6	11.8	17.8





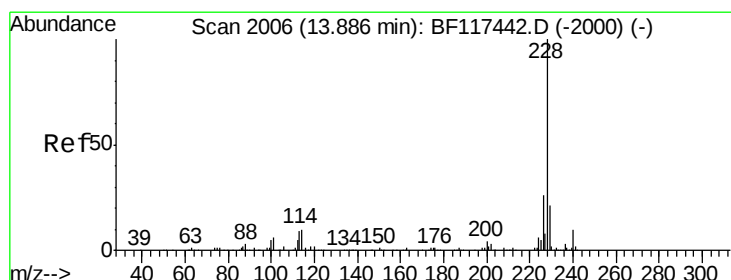
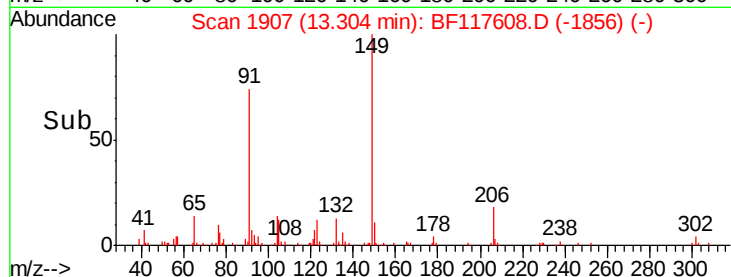
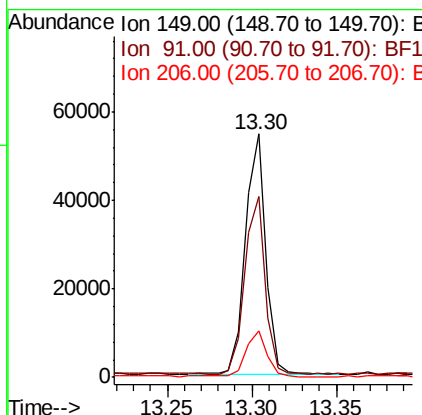
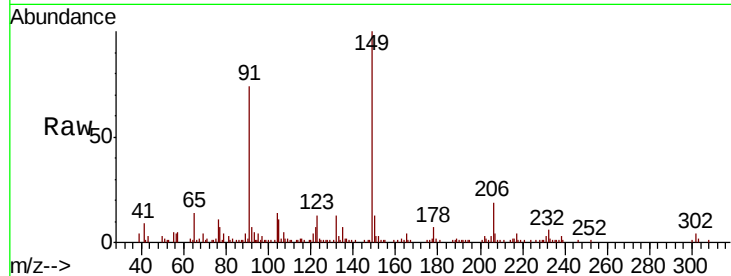
#80
Butylbenzylphthalate
Concen: 17.394 ng
RT: 13.30 min Scan# 1907
Delta R.T. 0.00 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-3

Tot Ion	Ratio	Lower	Upper
149	100		
91	74.4	62.1	93.1
206	19.1	14.3	21.5

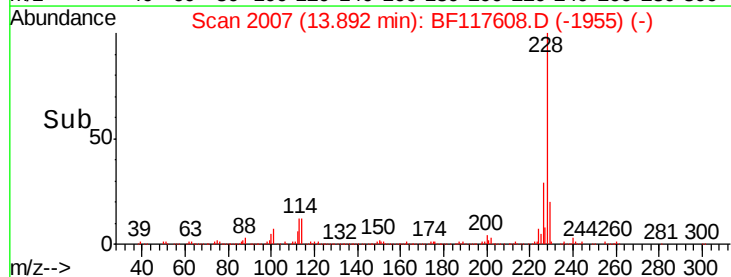
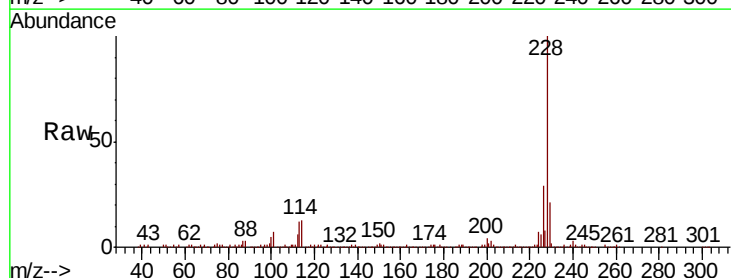
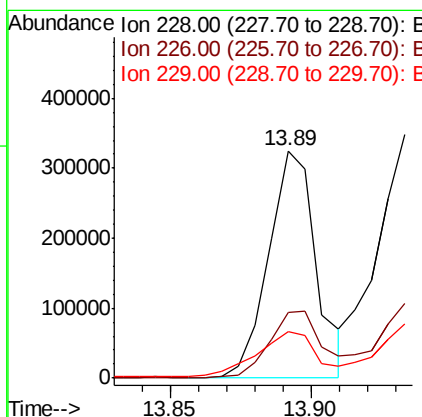
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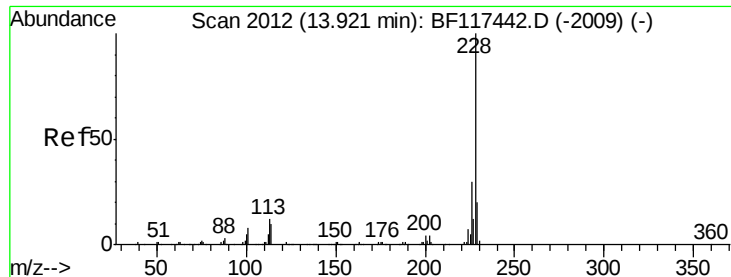
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#81
Benzo(a)anthracene
Concen: 91.257 ng
RT: 13.89 min Scan# 2007
Delta R.T. 0.01 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	21.0	31.4
229	20.7	16.4	24.6





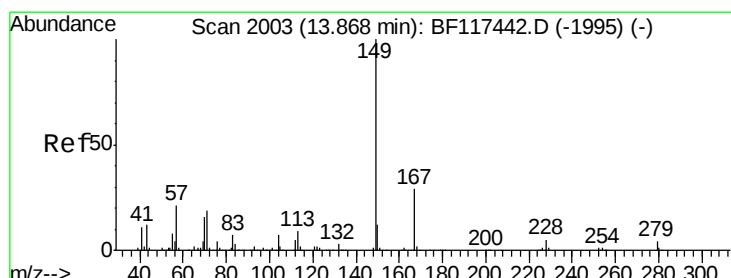
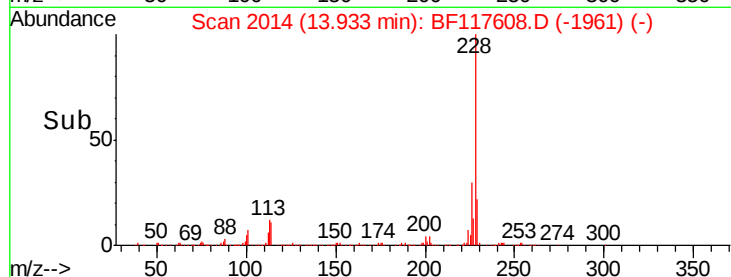
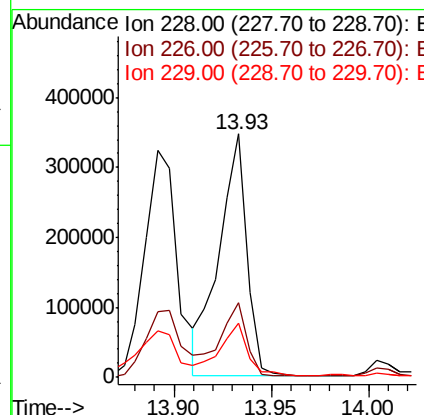
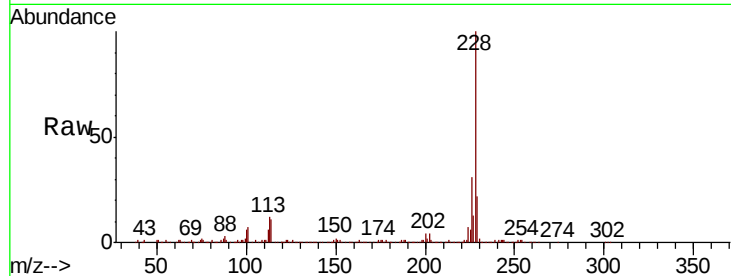
#83
Chrysene
Concen: 84.558 ng
RT: 13.93 min Scan# 2014
Delta R.T. 0.01 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.9	35.9
229	22.3	15.8	23.6

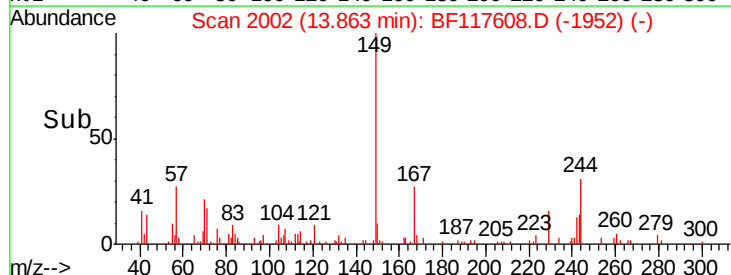
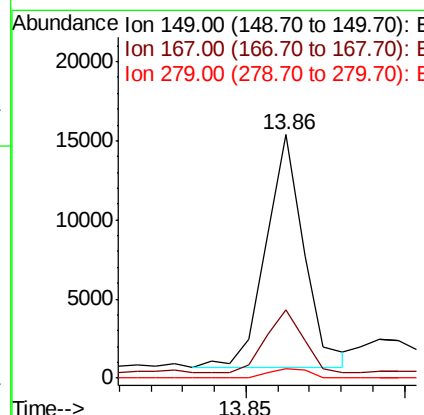
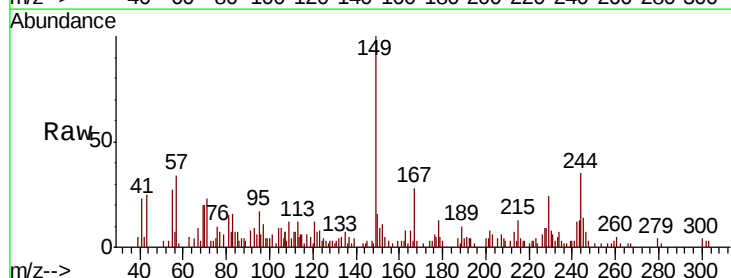
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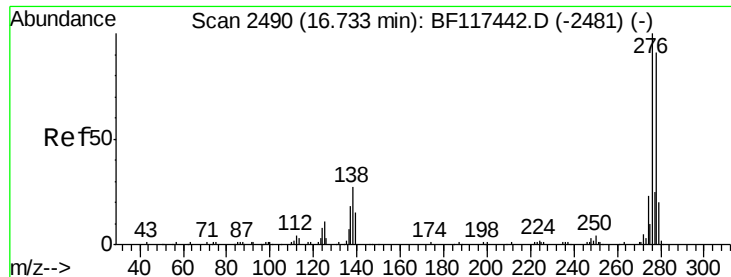
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#84
Bis(2-ethylhexyl)phthalate
Concen: 3.381 ng
RT: 13.86 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.2	23.3	34.9
279	3.6	3.2	4.8





#86

Indeno(1,2,3-cd)pyrene

Concen: 29.976 ng

RT: 16.76 min Scan# 2495

Delta R.T. 0.03 min

Lab File: BF117608.D

Acq: 29 Oct 2019 23:53

Instrument :

BNA_F

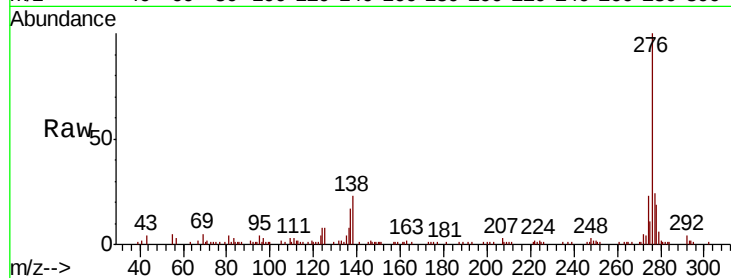
ClientSampleId :

CSA-2-1-3

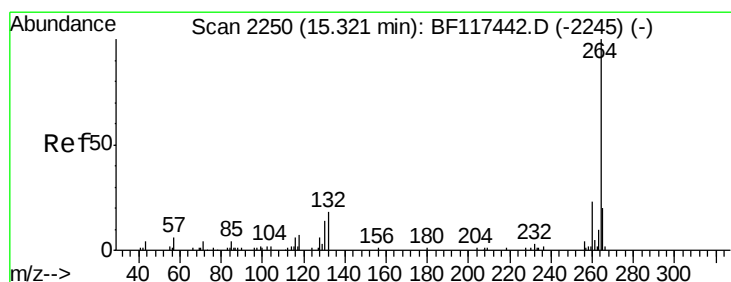
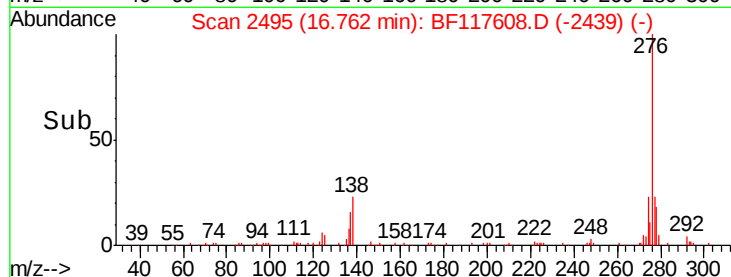
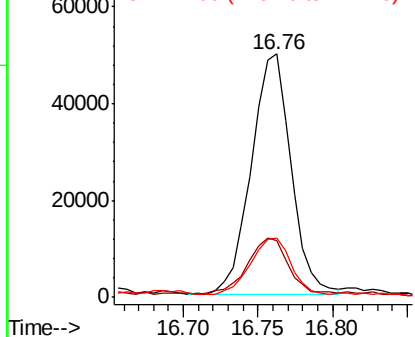
Tot Ion:	276	Resp:	91001
Ion Ratio	Lower	Upper	
276	100		
138	24.6	21.8	32.8
277	24.1	20.0	30.0

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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

Perylene-d12

Concen: 20.000 ng

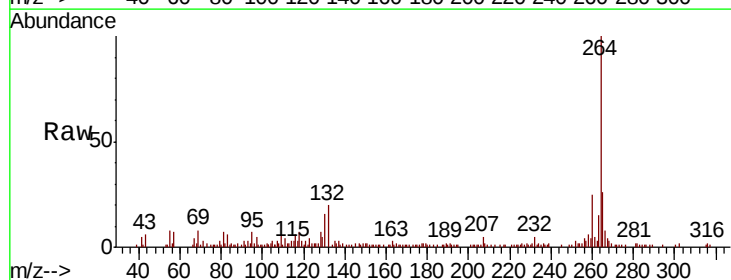
RT: 15.34 min Scan# 2253

Delta R.T. 0.02 min

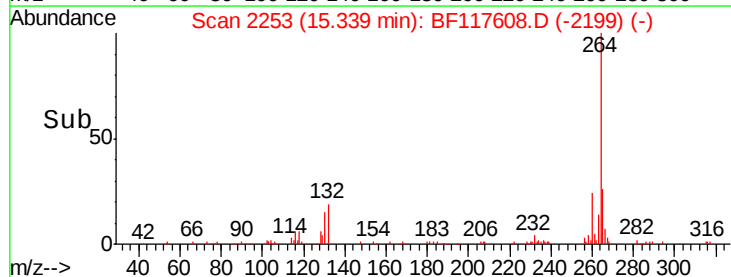
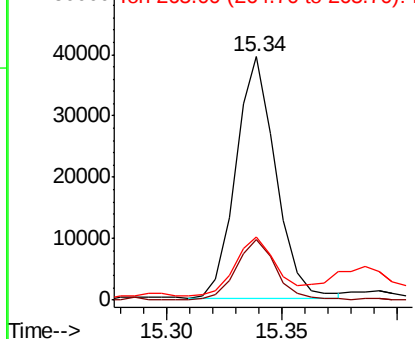
Lab File: BF117608.D

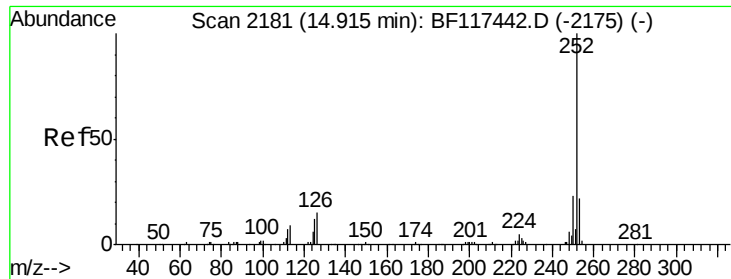
Acq: 29 Oct 2019 23:53

Tgt Ion:	264	Resp:	47121
Ion Ratio	Lower	Upper	
264	100		
260	24.8	18.4	27.6
265	26.1	16.1	24.1#



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





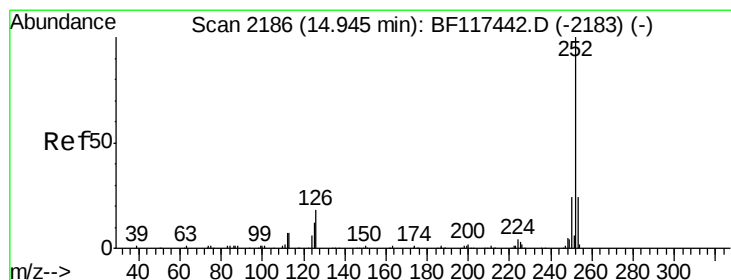
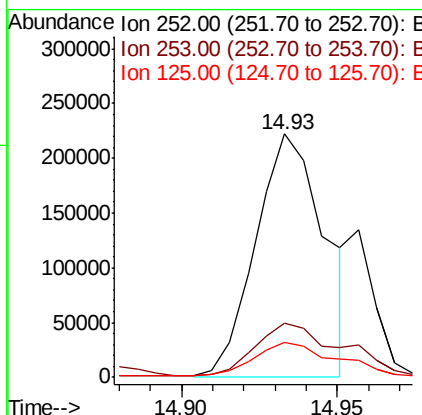
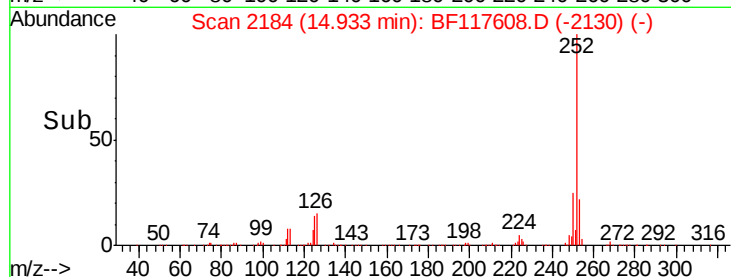
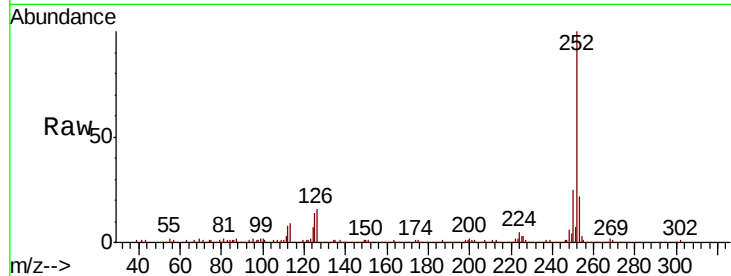
#88
Benzo(b)fluoranthene
Concen: 122.996 ng m
RT: 14.93 min Scan# 2184
Delta R.T. 0.02 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.6
125	14.3	9.9	14.9

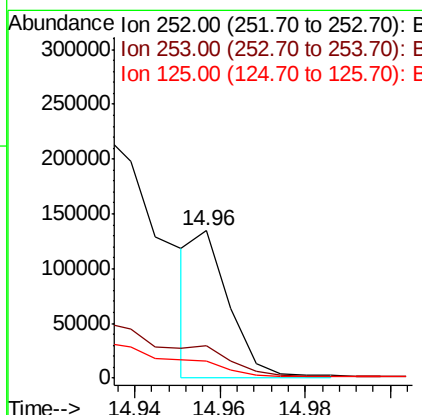
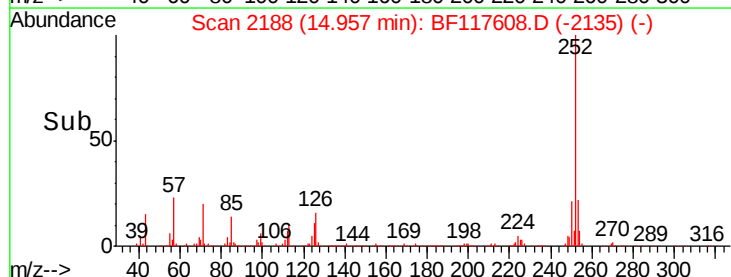
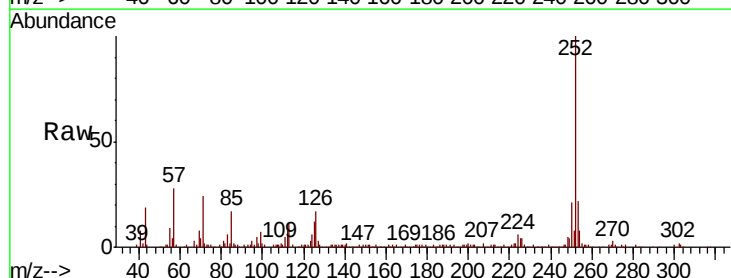
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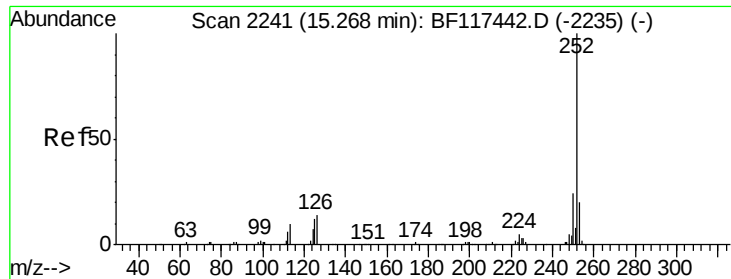
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#89
Benzo(k)fluoranthene
Concen: 27.331 ng m
RT: 14.96 min Scan# 2188
Delta R.T. 0.01 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.0	27.0
125	11.9	8.9	13.3





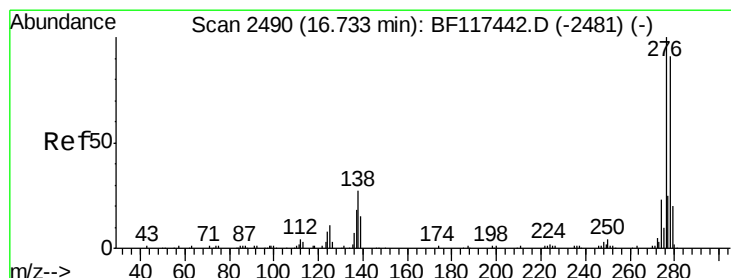
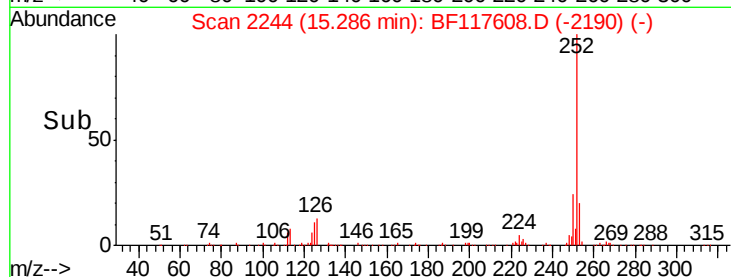
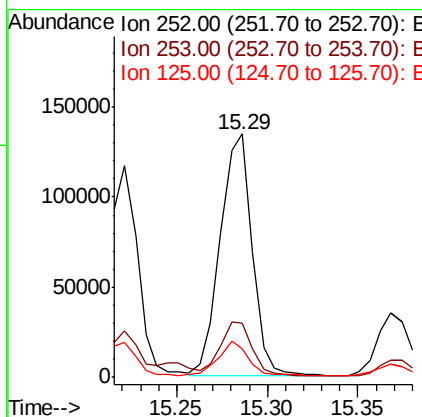
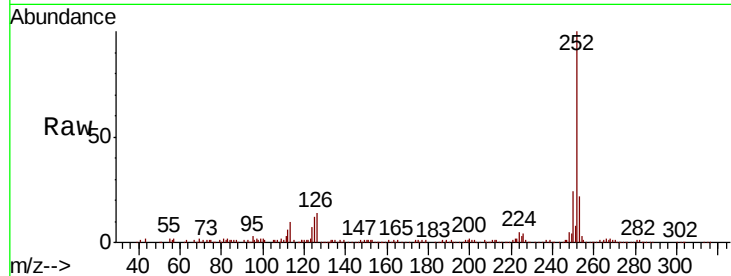
#90
Benzo(a)pyrene
Concen: 65.235 ng
RT: 15.29 min Scan# 2244
Delta R.T. 0.02 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	16.3	24.5
125	11.7	9.2	13.8

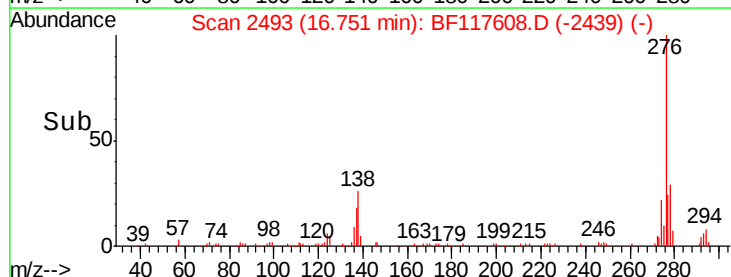
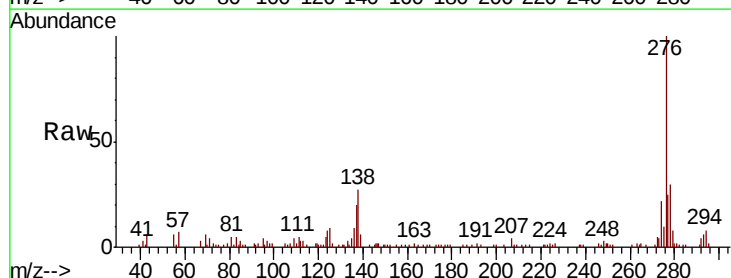
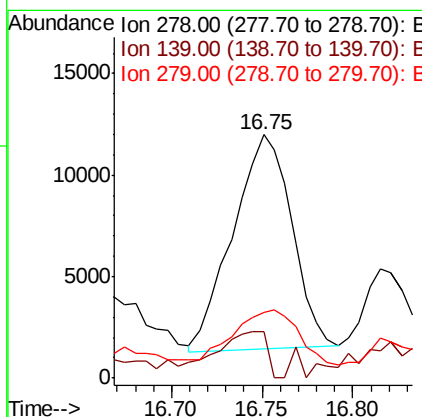
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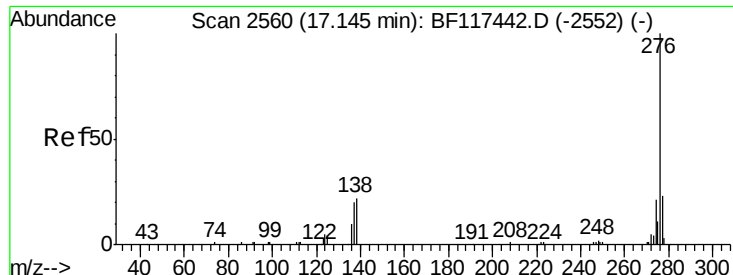
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#91
Dibenzo(a,h)anthracene
Concen: 10.854 ng
RT: 16.75 min Scan# 2493
Delta R.T. 0.02 min
Lab File: BF117608.D
Acq: 29 Oct 2019 23:53

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.2	13.4	20.0
279	27.1	17.8	26.6#





#92
 Benzo(a,h,i)perylene
 Concen: 39.696 ng
 RT: 17.19 min Scan# 2567
 Delta R.T. 0.04 min
 Lab File: BF117608.D
 Acq: 29 Oct 2019 23:53

Instrument :
 BNA_F
 ClientSampleId :
 CSA-2-1-3

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.9	18.4	27.6
138	23.3	17.8	26.6

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