

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032819\
 Data File : BF113395.D
 Acq On : 29 Mar 2019 2:46
 Operator : JU/SJ
 Sample : K2086-03DL 2X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-13DL

Manual Integrations
 APPROVED

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 3/29/2019 4:47:26 PM

Quant Time: Mar 29 14:15:28 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF032519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 26 03:32:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	181942	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	718026	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	340550	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	615596	20.00	ng	0.00
76) Chrysene-d12	13.84	240	452004	20.00	ng	0.00
87) Perylene-d12	15.24	264	488822	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	608334	54.67	ng	0.00
7) Phenol-d6	6.35	99	797299	56.64	ng	-0.01
23) Nitrobenzene-d5	7.26	82	466671	38.58	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	219980	52.29	ng	0.00
45) 2-Fluorobiphenyl	9.06	172	966139	33.85	ng	0.00
79) Terphenyl-d14	12.79	244	847984	41.35	ng	-0.01

Target Compounds

						Qvalue
49) Acenaphthylene	9.59	152	95314	2.692	ng	98
50) Dimethylphthalate	9.45	163	71756	2.843	ng	98
52) Acenaphthene	9.76	154	57995	2.908	ng	98
55) Dibenzofuran	9.94	168	87336	2.913	ng	95
58) Fluorene	10.28	166	71849	3.085	ng	100
71) Phenanthrene	11.24	178	1051613	34.399	ng	99
72) Anthracene	11.29	178	159184	5.126	ng	98
73) Carbazole	11.44	167	175530	5.924	ng	97
75) Fluoranthene	12.43	202	2326221	67.311	ng	98
78) Pyrene	12.65	202	1847726	58.991	ng	99
81) Benzo(a)anthracene	13.83	228	384261	14.852	ng	96
83) Chrysene	13.87	228	1107083	42.126	ng	98
86) Indeno(1,2,3-cd)pyrene	16.59	276	202000	8.956	ng	95
88) Benzo(b)fluoranthene	14.85	252	1079113m	35.537	ng	
89) Benzo(k)fluoranthene	14.87	252	260919m	9.785	ng	
90) Benzo(a)pyrene	15.19	252	290851	10.804	ng	98
91) Dibenzo(a,h)anthracene	16.60	278	47635m	2.046	ng	
92) Benzo(g,h,i)perylene	17.00	276	155792	6.638	ng	97

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

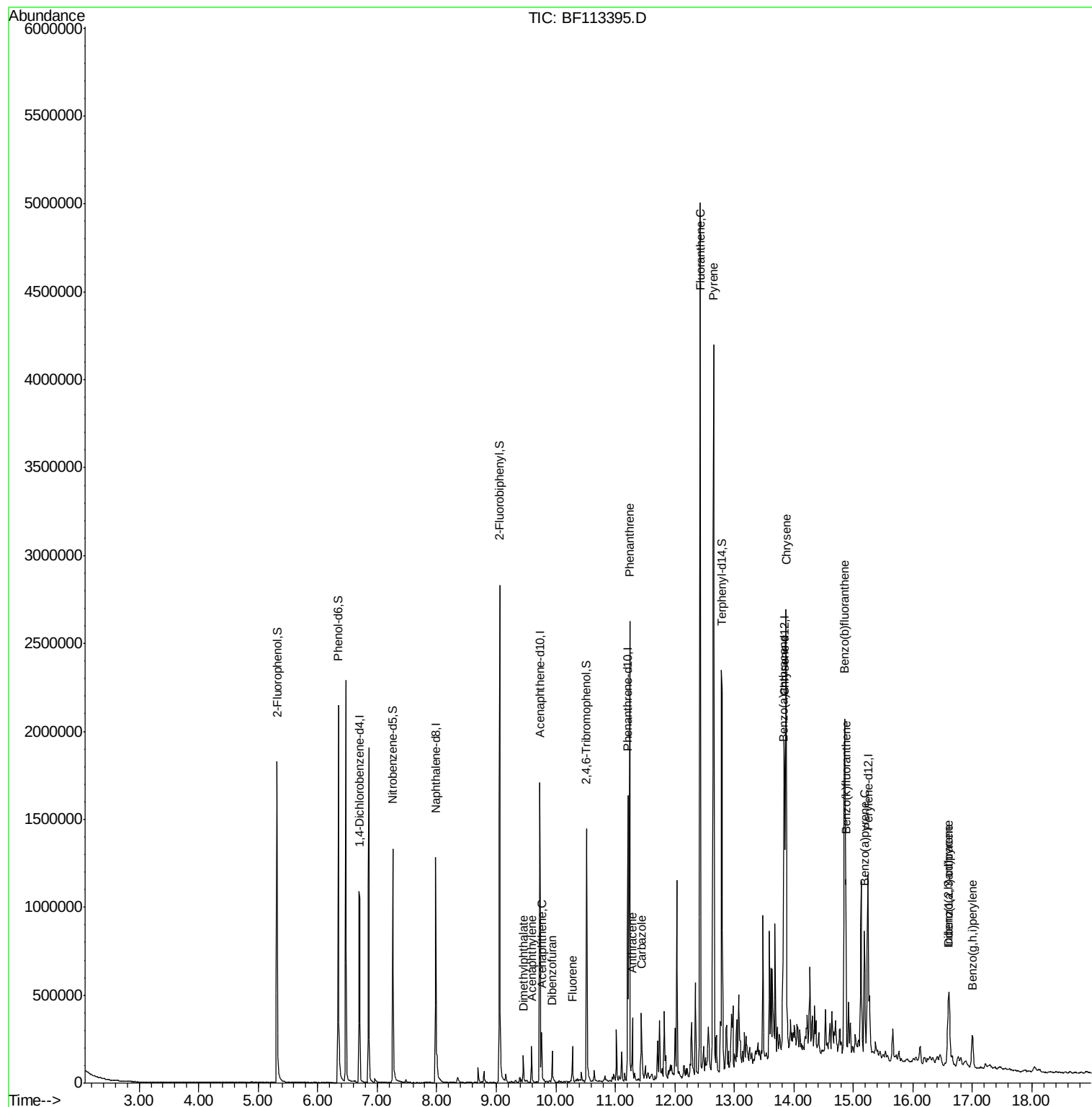
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032819\
Data File : BF113395.D
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Operator : JU/SJ
Sample : K2086-03DL 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

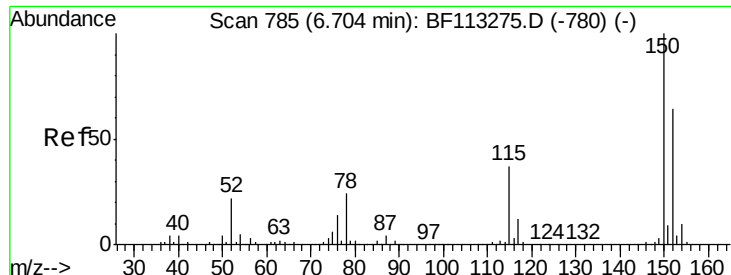
Instrument :
BNA_F
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CS-13DL

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#1

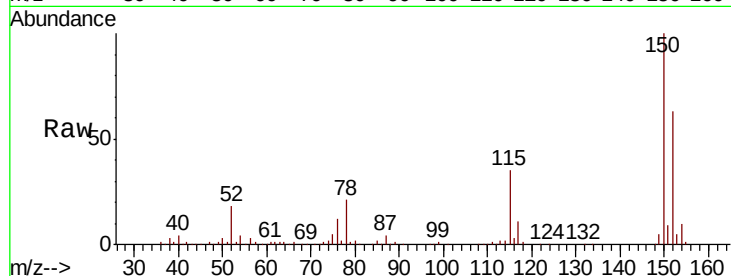
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 785
Delta R.T. -0.00 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Instrument :
BNA_F
ClientSampleId :
CS-13DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.7	124.7	187.1
115	55.3	46.0	69.0

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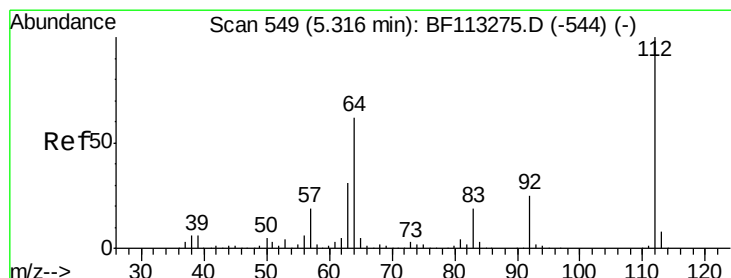
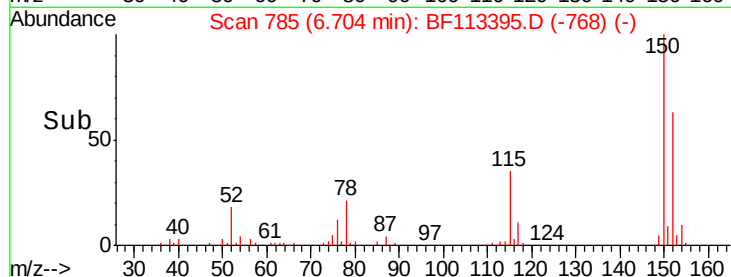
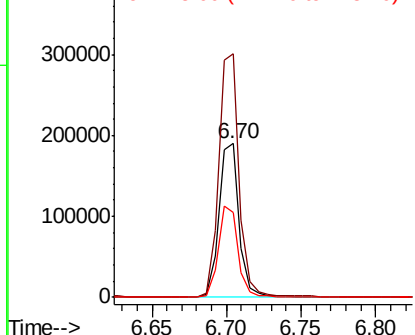


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

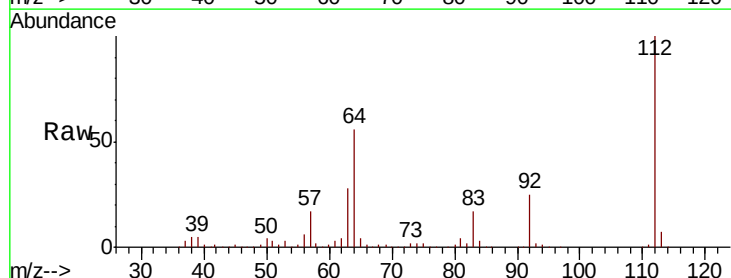
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 54.671 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.00 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.2	49.2	73.8
63	28.1	24.9	37.3

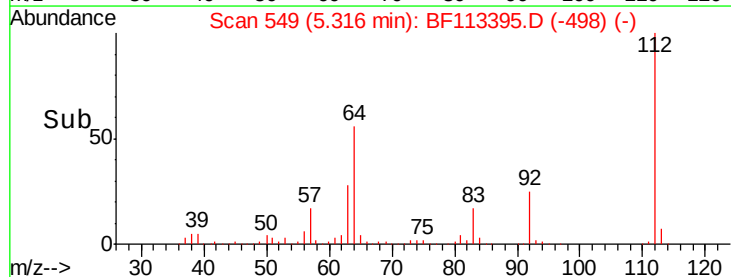
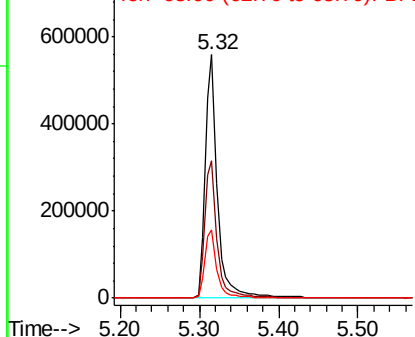


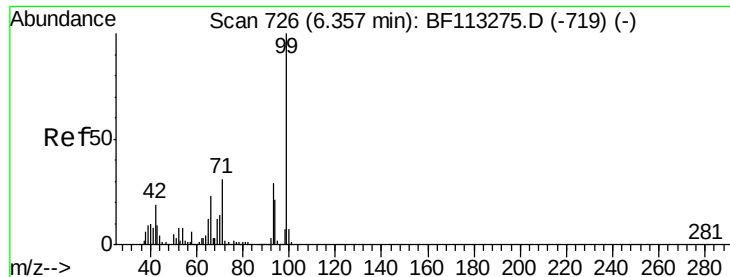
Abundance

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: 56.641 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF113395.D

Acq: 29 Mar 2019 2:46

Instrument :

BNA_F

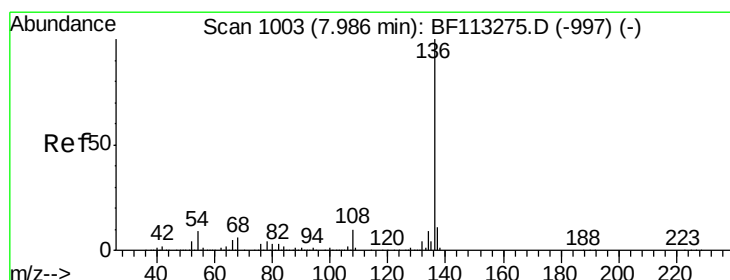
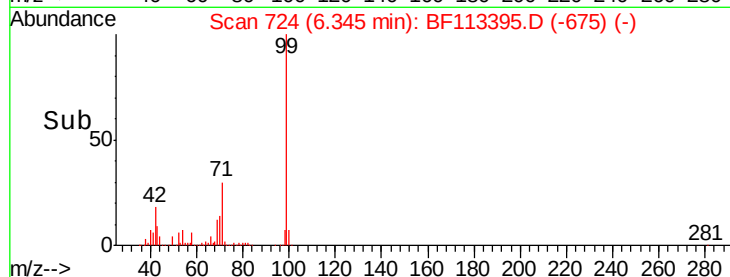
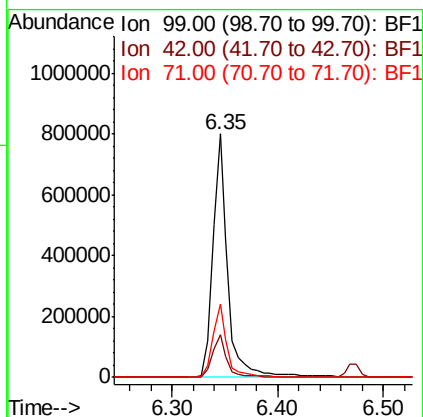
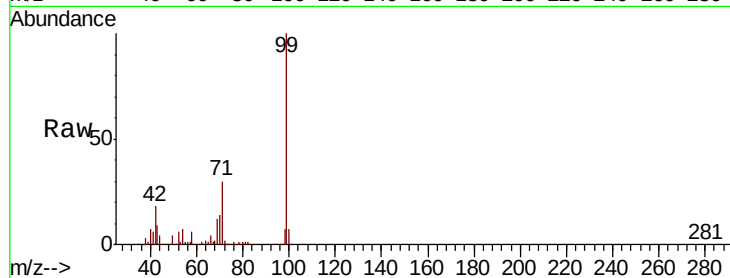
ClientSampled :

CS-13DL

Tot Ion:	99	Resp:	797299
Ion Ratio	Lower	Upper	
99	100		
42	17.5	14.8	22.2
71	30.3	24.9	37.3

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#21

Naphthalene-d8

Concen: 20.000 ng

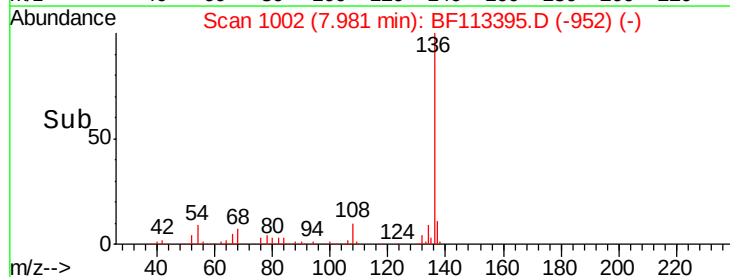
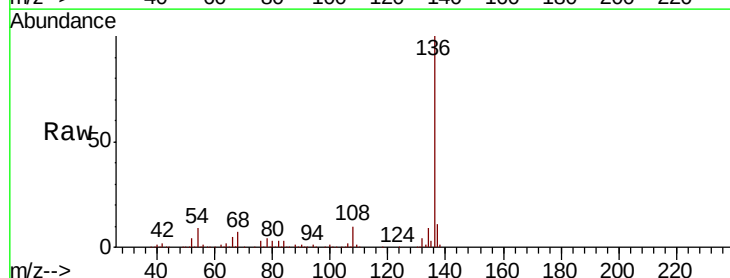
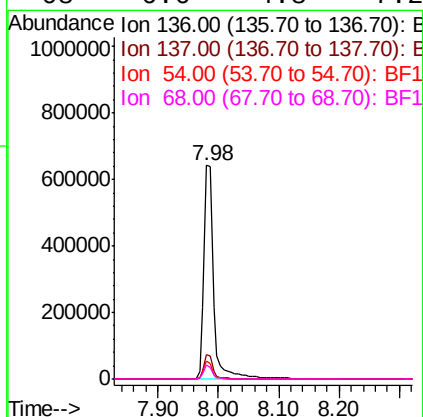
RT: 7.98 min Scan# 1002

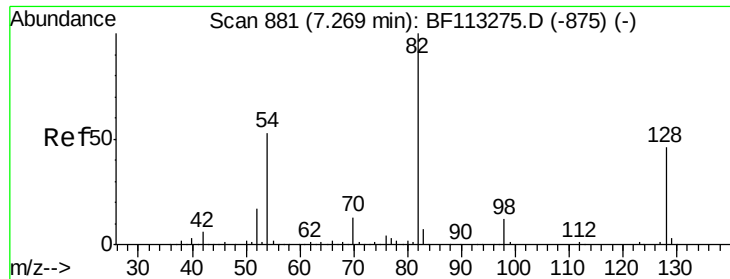
Delta R.T. -0.01 min

Lab File: BF113395.D

Acq: 29 Mar 2019 2:46

Tgt Ion:	136	Resp:	718026
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.9	13.3
54	8.7	7.0	10.6
68	6.6	4.8	7.2





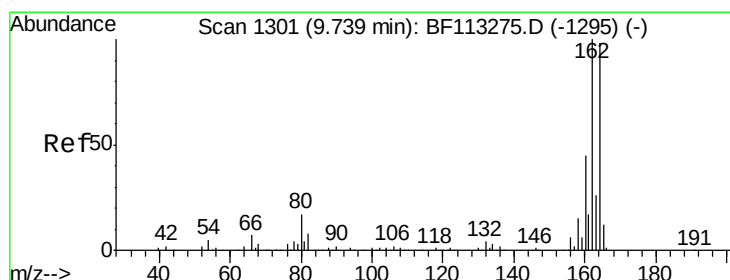
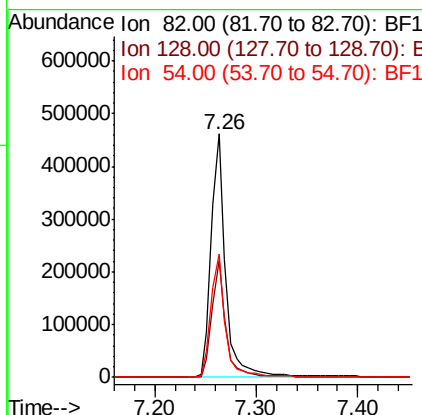
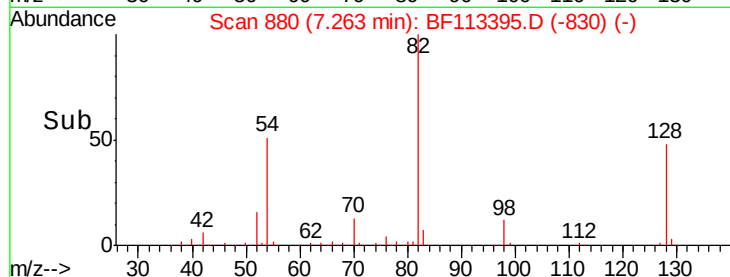
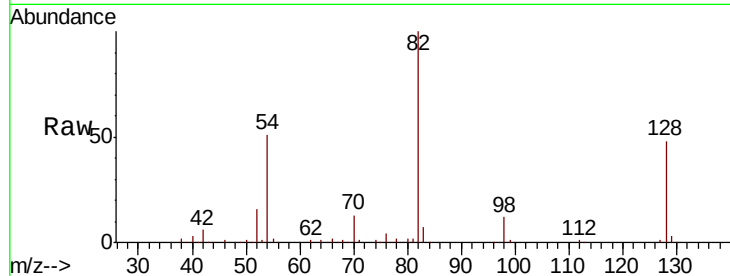
#23
Nitrobenzene-d5
Concen: 38.576 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.01 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Instrument :
BNA_F
ClientSampled :
CS-13DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.0	36.5	54.7
54	50.6	42.2	63.2

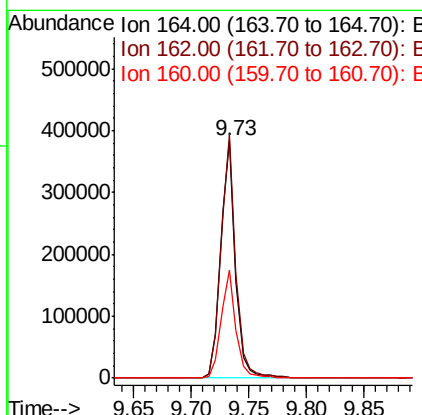
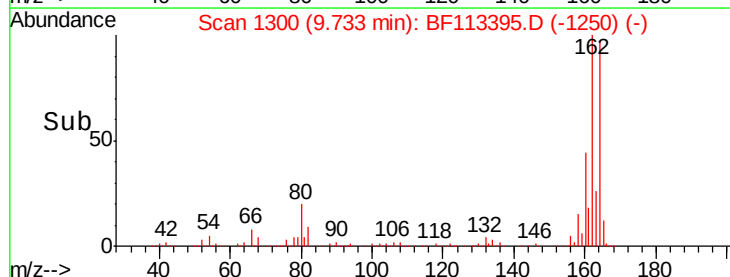
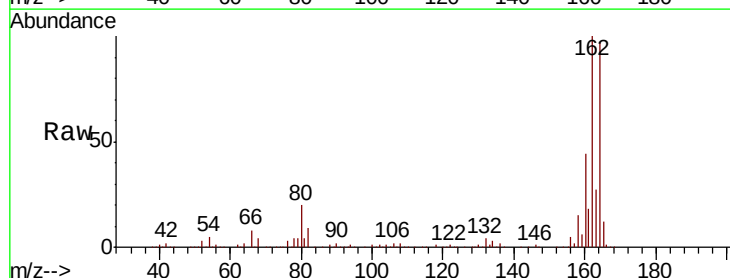
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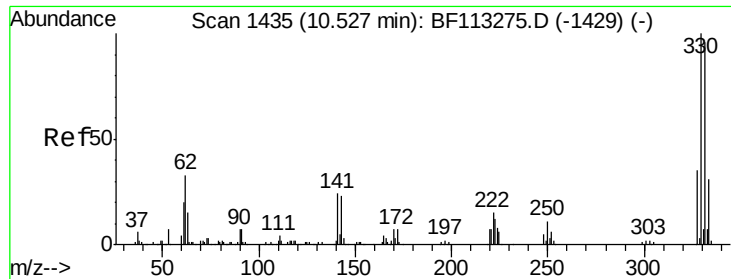
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.8	122.6
160	45.5	36.4	54.6





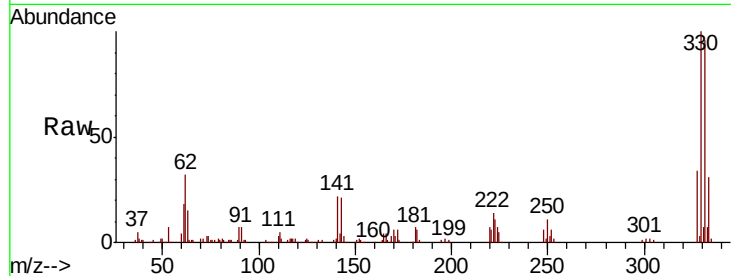
#42
 2,4,6-Tribromophenol
 Concen: 52.294 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF113395.D
 Acq: 29 Mar 2019 2:46

Instrument :
 BNA_F
 ClientSampled :
 CS-13DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	219980		
332	96.6	77.8	116.6	
141	27.9	22.7	34.1	

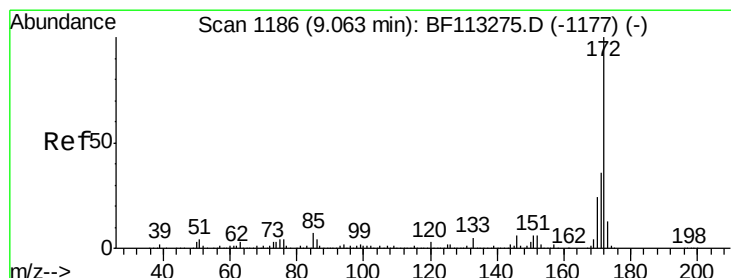
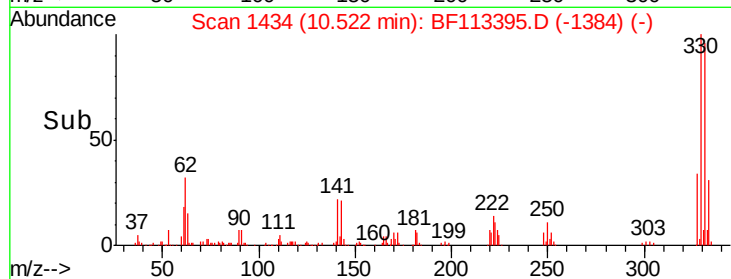
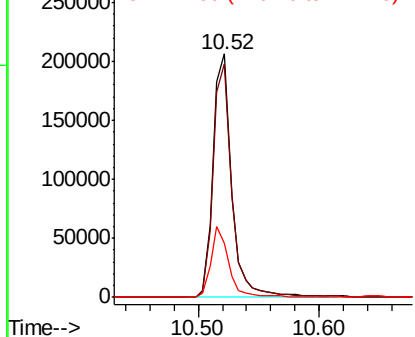
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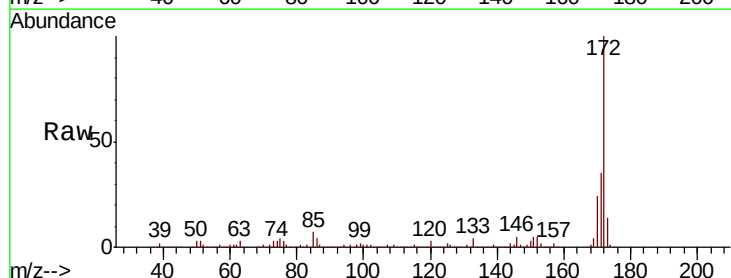
Abundance

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



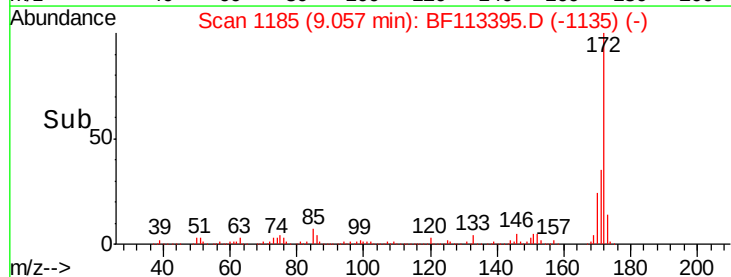
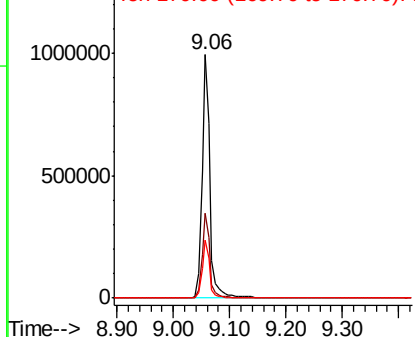
#45
 2-Fluorobiphenyl
 Concen: 33.853 ng
 RT: 9.06 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: BF113395.D
 Acq: 29 Mar 2019 2:46

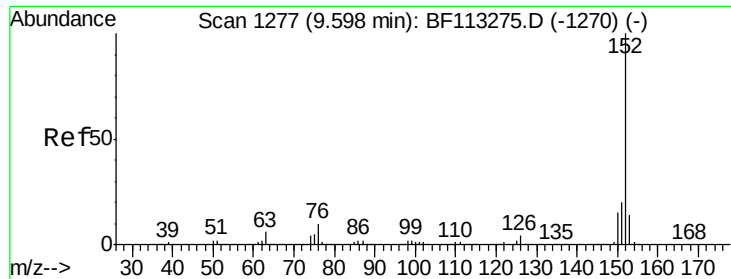
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	966139		
171	35.1	29.0	43.6	
170	23.9	19.5	29.3	



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: 2.692 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.01 min

Lab File: BF113395.D

Acq: 29 Mar 2019 2:46

Instrument :

BNA_F

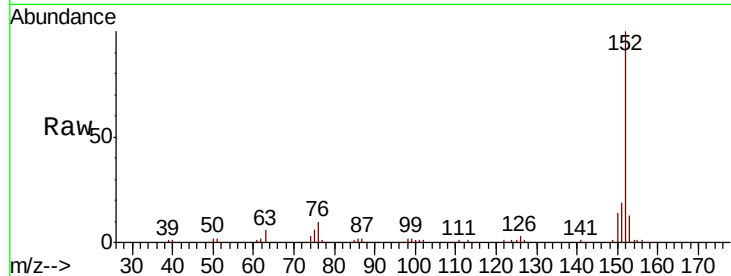
ClientSampled :

CS-13DL

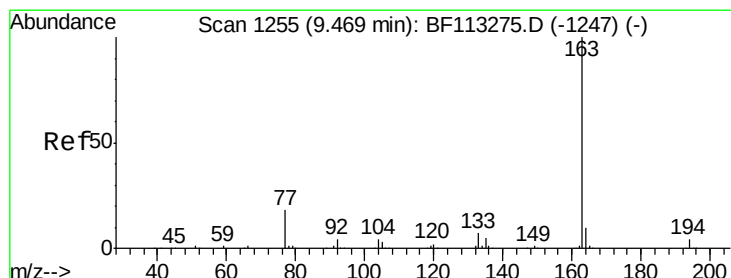
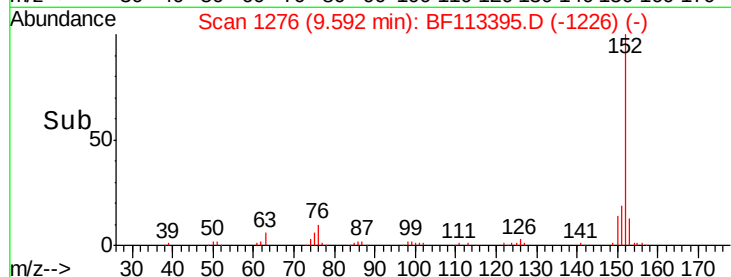
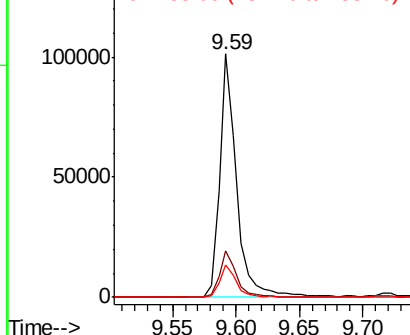
Tot Ion:	152	Resp:	95314
Ion Ratio	Lower	Upper	
152	100		
151	19.0	16.2	24.4
153	13.3	11.0	16.6

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



#50

Dimethylphthalate

Concen: 2.843 ng

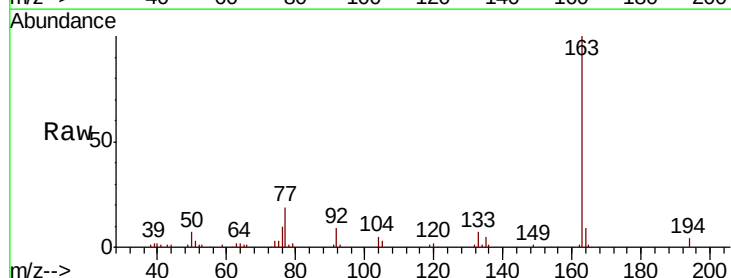
RT: 9.45 min Scan# 1252

Delta R.T. -0.02 min

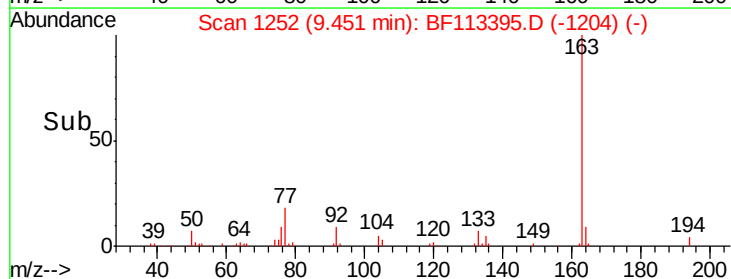
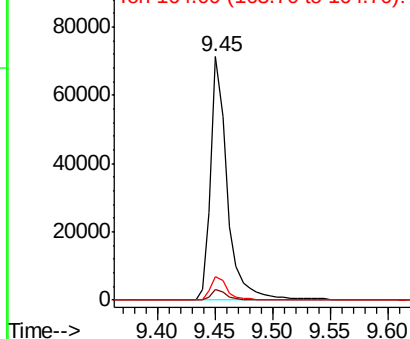
Lab File: BF113395.D

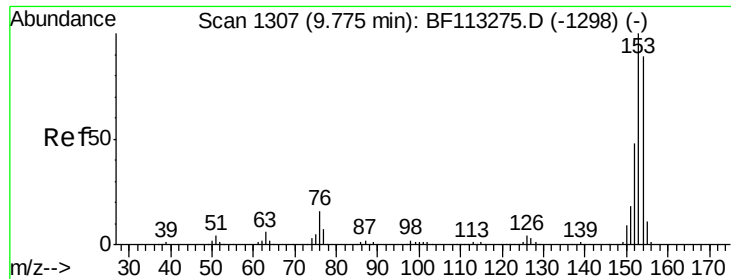
Acq: 29 Mar 2019 2:46

Tgt Ion:	163	Resp:	71756
Ion Ratio	Lower	Upper	
163	100		
194	4.3	3.0	4.6
164	9.5	8.1	12.1



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: 2.908 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF113395.D

Acq: 29 Mar 2019 2:46

Instrument :

BNA_F

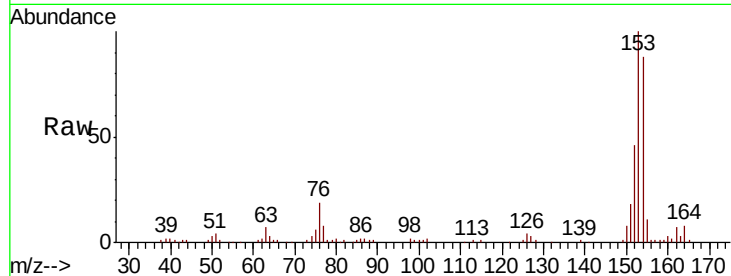
ClientSampled :

CS-13DL

Tot Ion:	154	Resp:	57995
Ion	Ratio	Lower	Upper
154	100		
153	113.1	89.5	134.3
152	52.1	43.3	64.9

Manual Integrations
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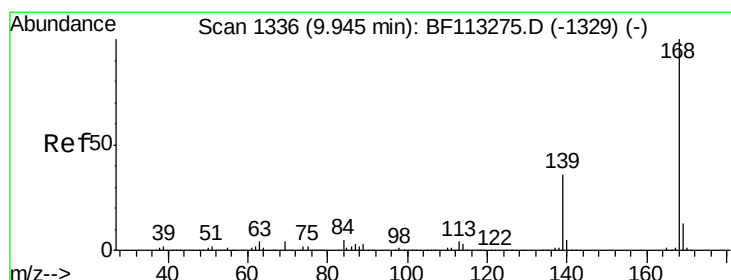
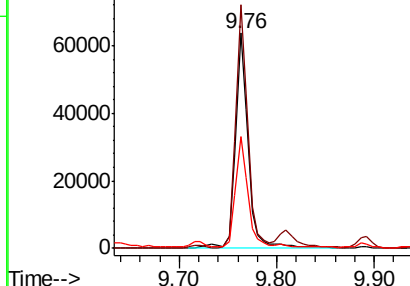
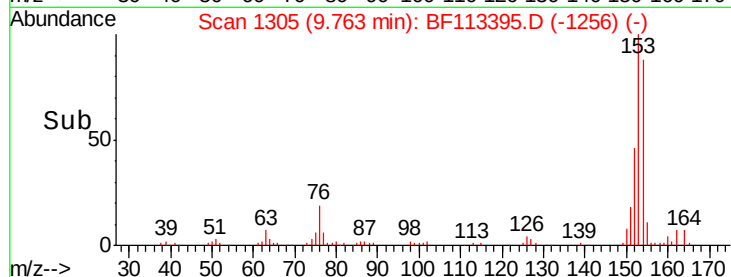


Abundance

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

Dibenzofuran

Concen: 2.913 ng

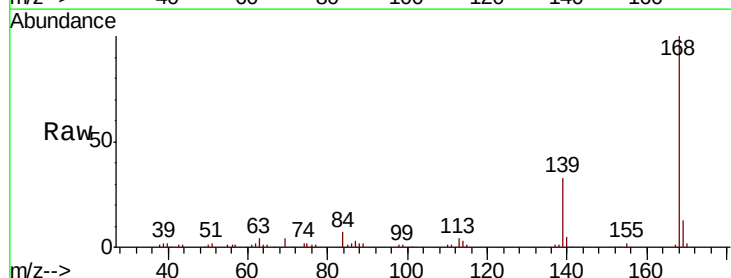
RT: 9.94 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF113395.D

Acq: 29 Mar 2019 2:46

Tgt Ion:	168	Resp:	87336
Ion	Ratio	Lower	Upper
168	100		
139	33.2	29.7	44.5
169	13.0	10.7	16.1

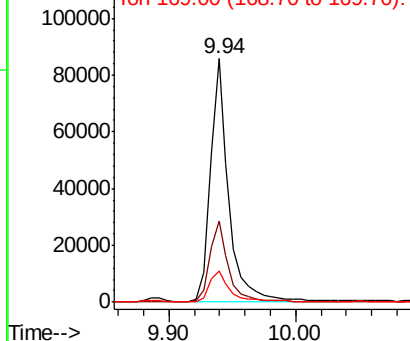
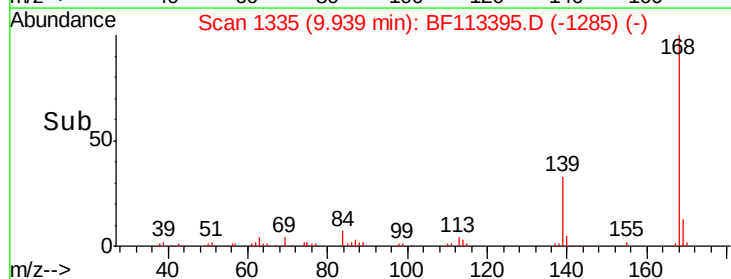


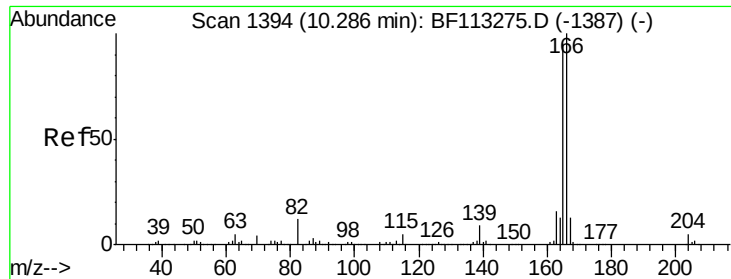
Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





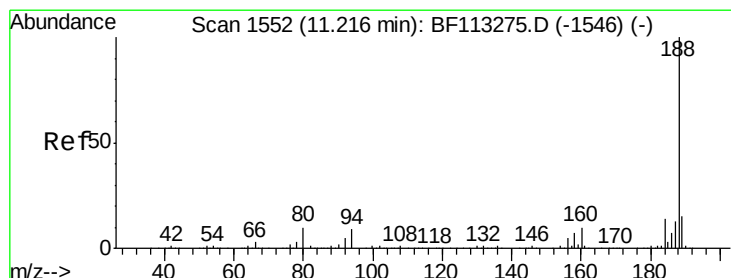
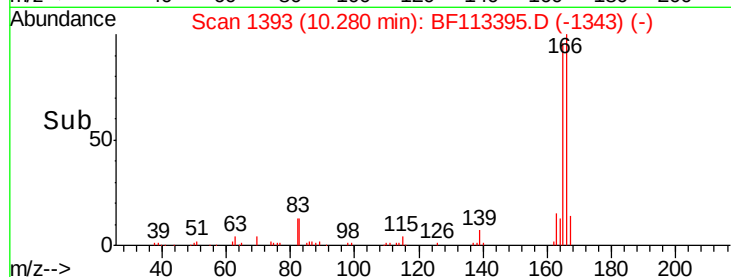
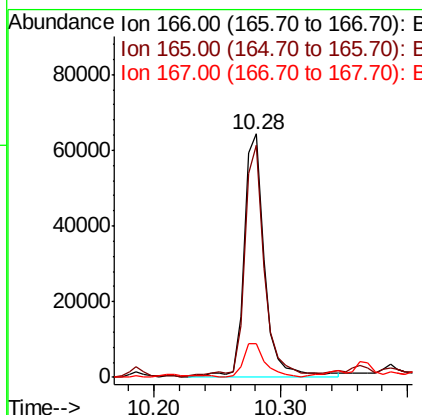
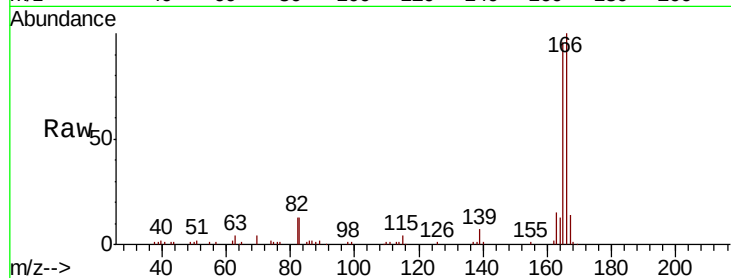
#58
 Fluorene
 Concen: 3.085 ng
 RT: 10.28 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: BF113395.D
 Acq: 29 Mar 2019 2:46

Instrument :
 BNA_F
 ClientSampleId :
 CS-13DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		71849		
165	95.5	76.2	114.2		
167	14.0	10.7	16.1		

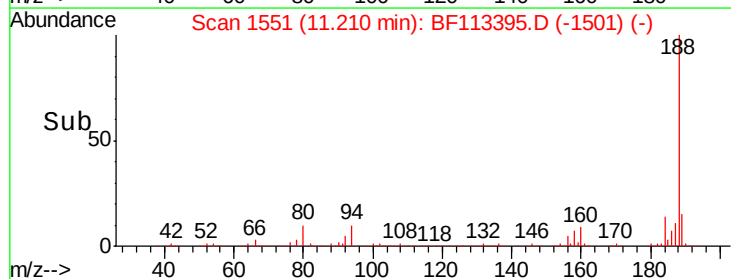
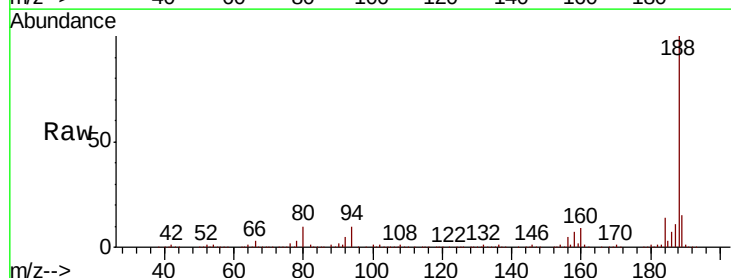
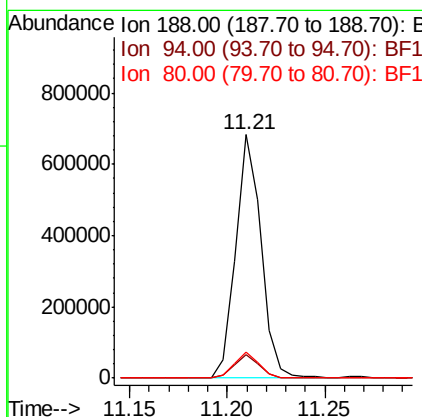
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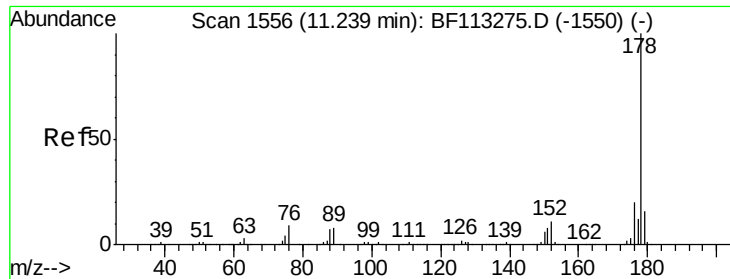
Sohil
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.21 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: BF113395.D
 Acq: 29 Mar 2019 2:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		615596		
94	9.8	7.0	10.6		
80	10.4	7.7	11.5		





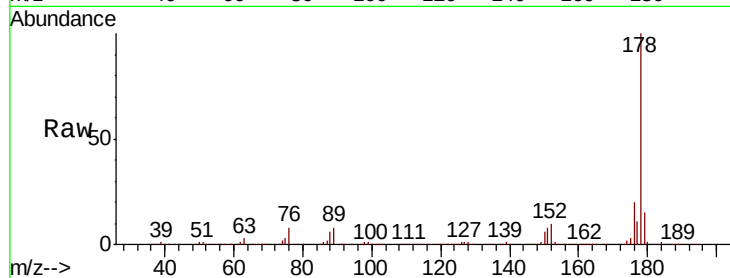
#71
Phenanthrene
Concen: 34.399 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.00 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Instrument :
BNA_F
ClientSampled :
CS-13DL

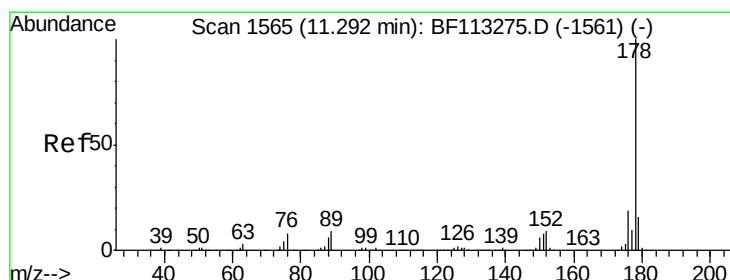
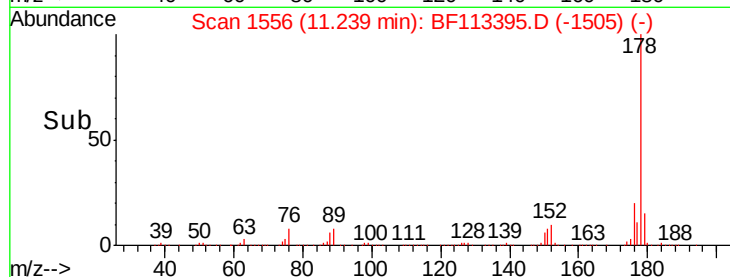
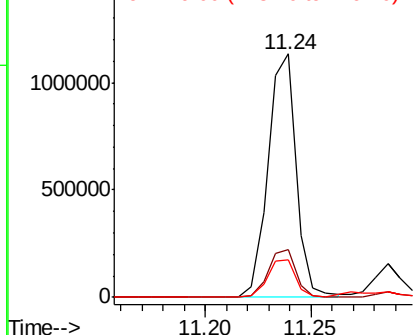
Tot Ion:178 Resp: 1051613
Ion Ratio Lower Upper
178 100
176 19.8 16.2 24.2
179 15.4 12.7 19.1

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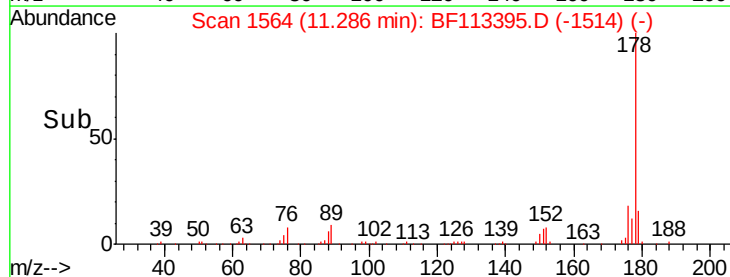
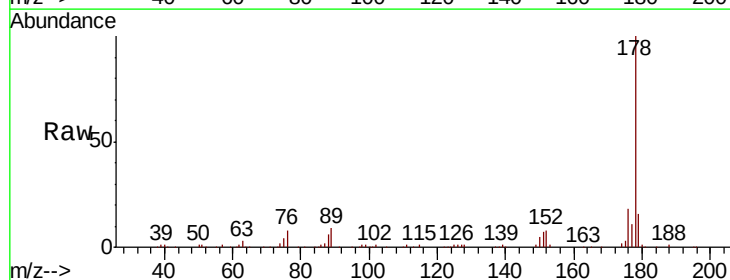
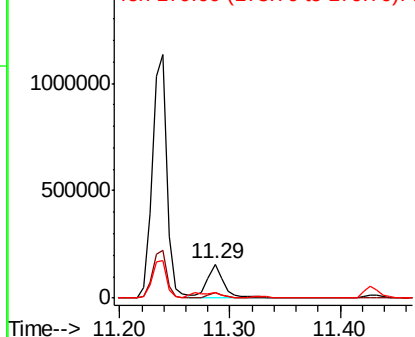
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

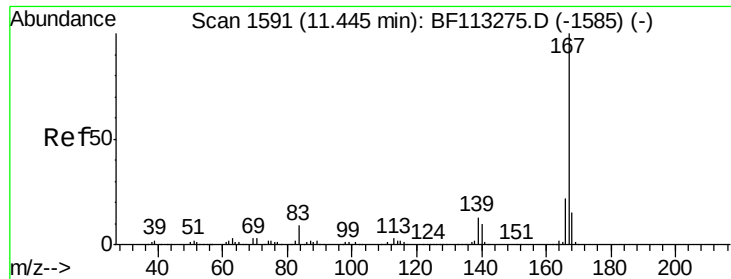


#72
Anthracene
Concen: 5.126 ng
RT: 11.29 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Tgt Ion:178 Resp: 159184
Ion Ratio Lower Upper
178 100
176 18.1 15.4 23.2
179 16.5 12.8 19.2

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





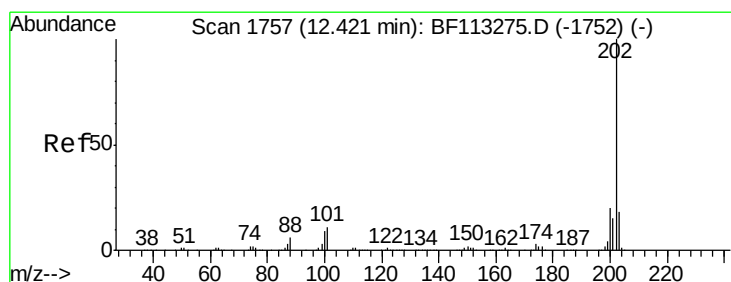
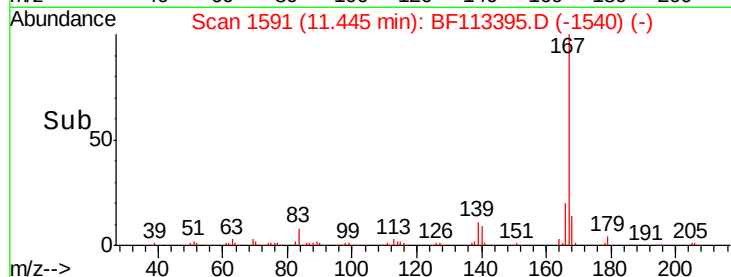
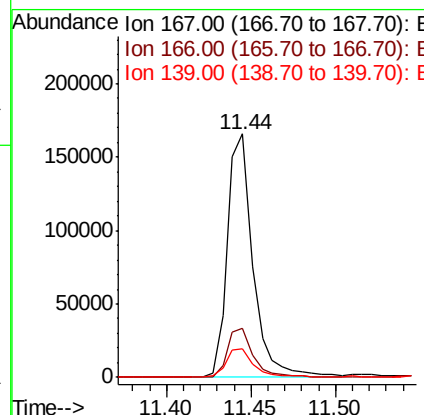
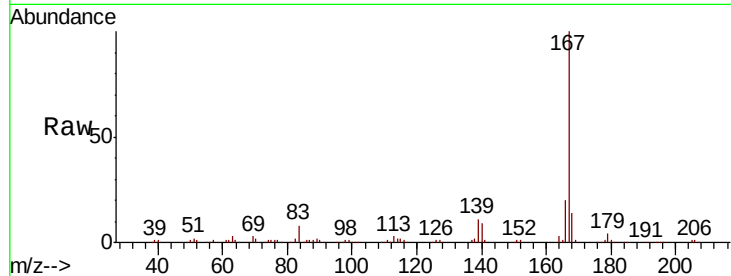
#73
 Carbazole
 Concen: 5.924 ng
 RT: 11.44 min Scan# 1591
 Delta R.T. -0.00 min
 Lab File: BF113395.D
 Acq: 29 Mar 2019 2:46

Instrument :
 BNA_F
 ClientSampleId :
 CS-13DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	20.2	17.4	26.0
139	11.5	10.4	15.6

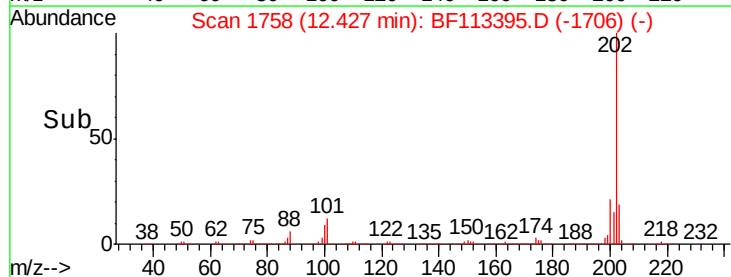
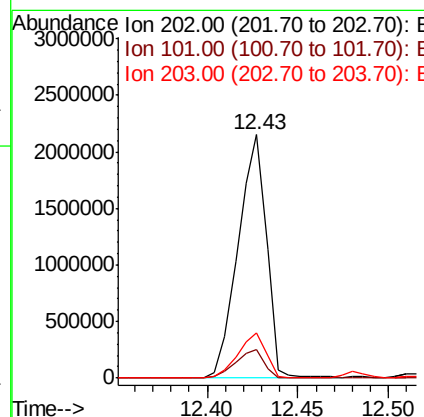
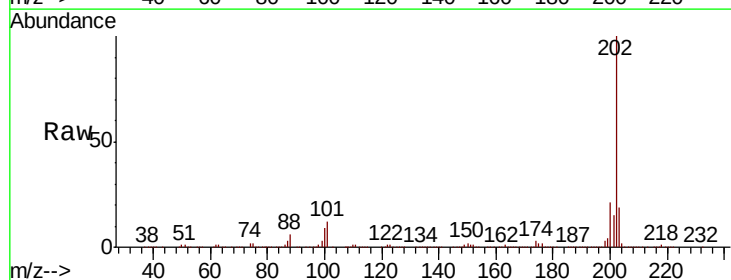
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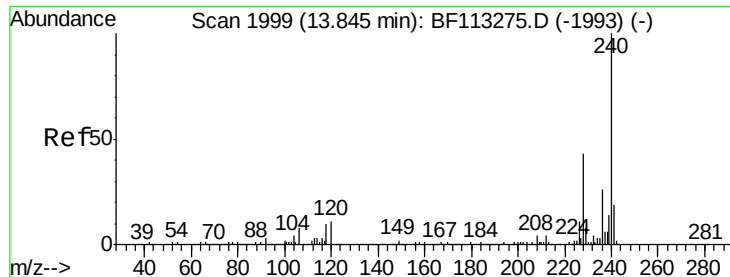
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#75
 Fluoranthene
 Concen: 67.311 ng
 RT: 12.43 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: BF113395.D
 Acq: 29 Mar 2019 2:46

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	31.4
203	18.7	0.0	38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF113395.D

Acq: 29 Mar 2019 2:46

Instrument :

BNA_F

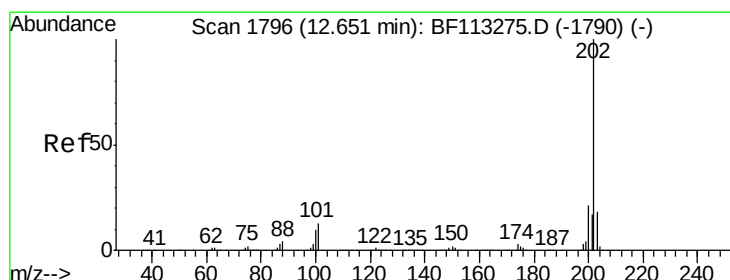
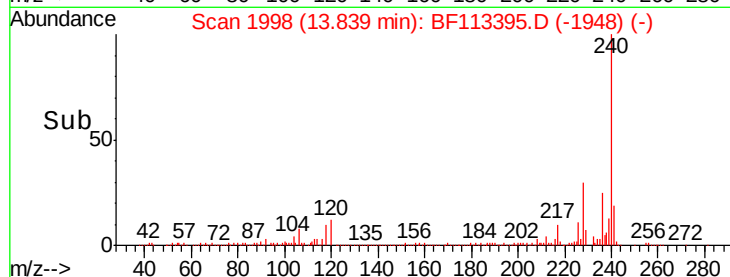
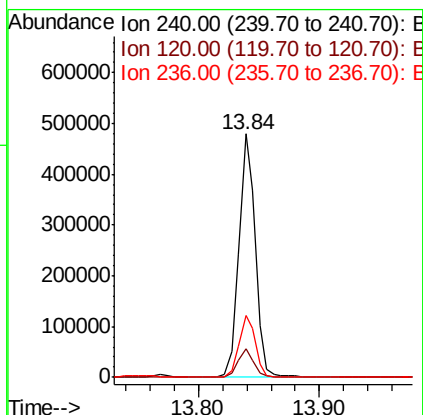
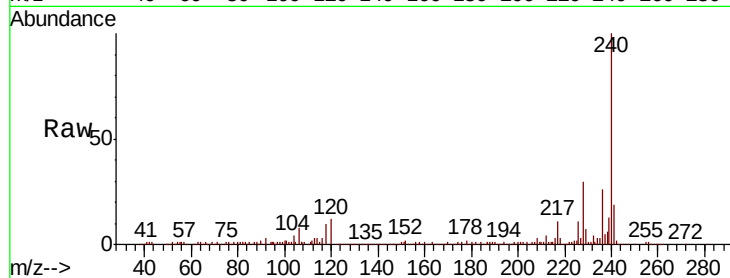
ClientSampled :

CS-13DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.7	8.8	13.2
236	25.5	20.9	31.3

Manual Integrations
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#78

Pyrene

Concen: 58.991 ng

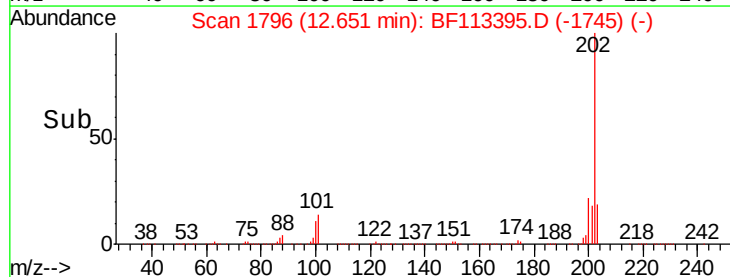
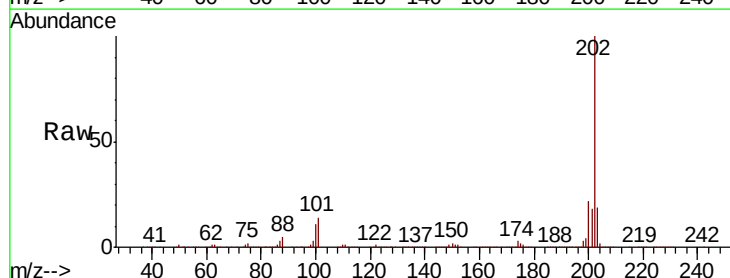
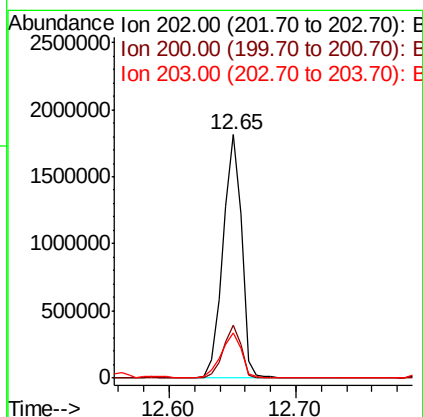
RT: 12.65 min Scan# 1796

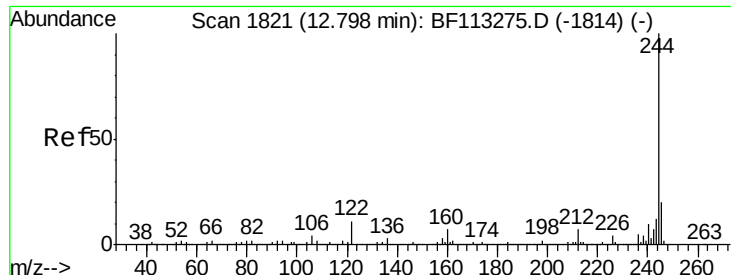
Delta R.T. -0.00 min

Lab File: BF113395.D

Acq: 29 Mar 2019 2:46

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.8	25.2
203	18.7	14.4	21.6





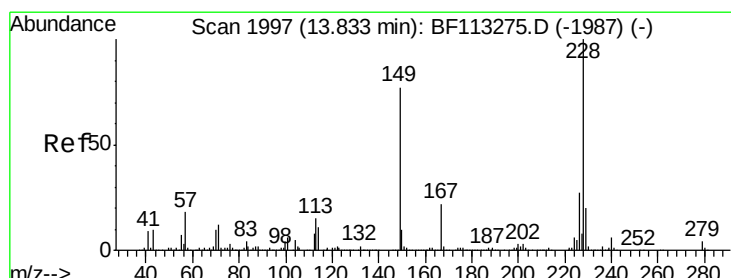
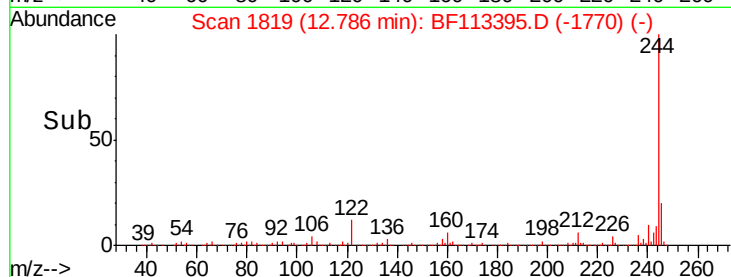
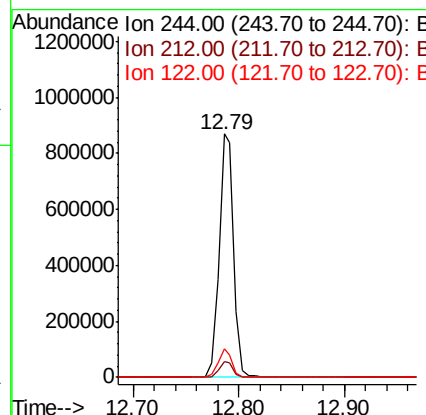
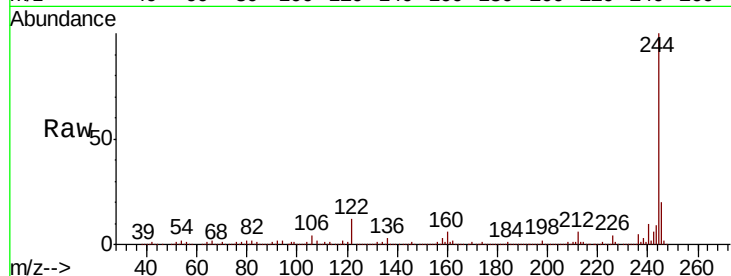
#79
 Terphenyl-d14
 Concen: 41.351 ng
 RT: 12.79 min Scan# 1819
 Delta R.T. -0.01 min
 Lab File: BF113395.D
 Acq: 29 Mar 2019 2:46

Instrument :
 BNA_F
 ClientSampled :
 CS-13DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.5	8.3
122	11.6	8.6	13.0

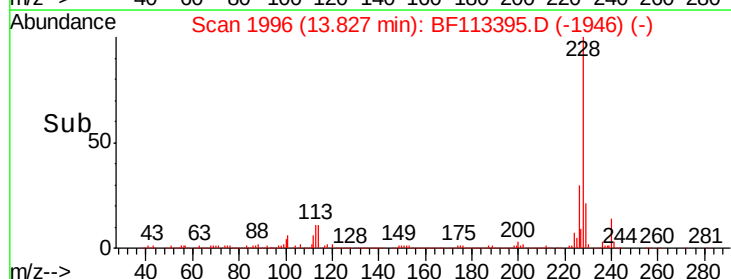
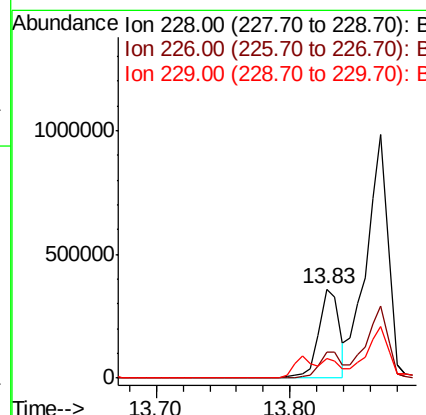
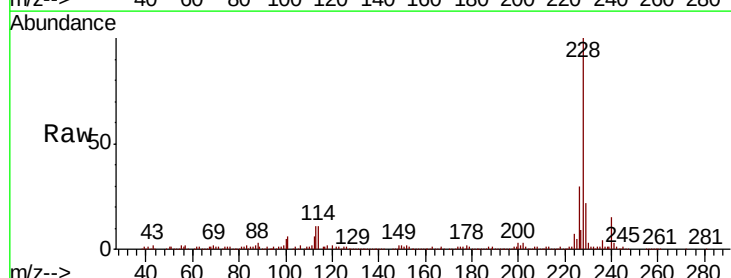
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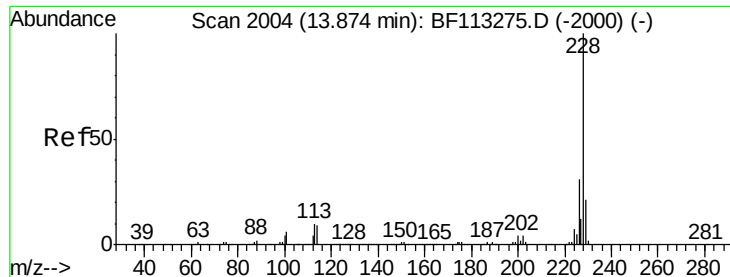
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#81
 Benzo(a)anthracene
 Concen: 14.852 ng
 RT: 13.83 min Scan# 1996
 Delta R.T. -0.01 min
 Lab File: BF113395.D
 Acq: 29 Mar 2019 2:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	21.8	32.8
229	21.6	16.2	24.4





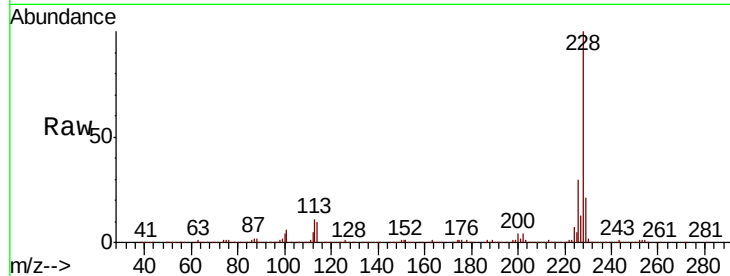
#83
Chrysene
Concen: 42.126 ng
RT: 13.87 min Scan# 2003
Delta R.T. -0.01 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Instrument :
BNA_F
ClientSampled :
CS-13DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.3	36.5
229	21.4	16.3	24.5

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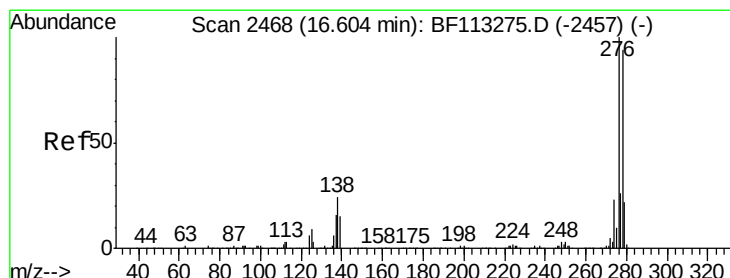
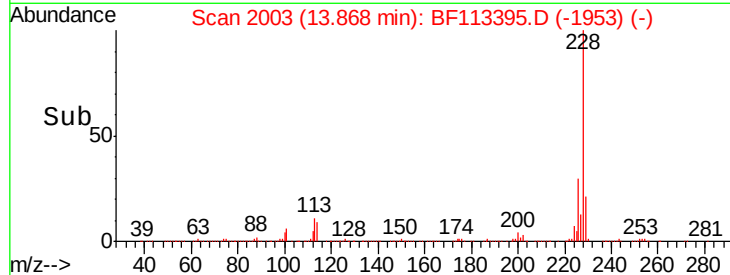
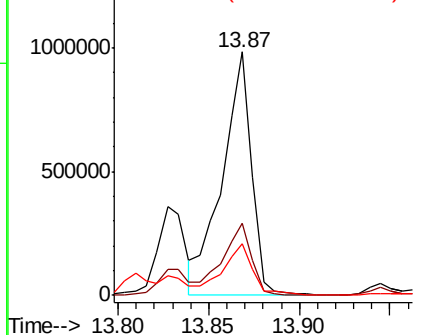


Abundance

Ion 228.00 (227.70 to 228.70): E

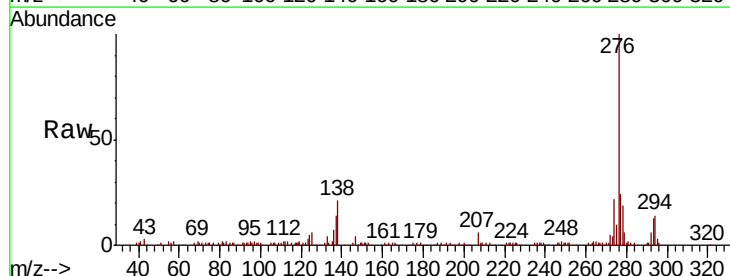
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86
Indeno(1,2,3-cd)pyrene
Concen: 8.956 ng
RT: 16.59 min Scan# 2466
Delta R.T. -0.01 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.4	18.1	27.1
277	22.6	20.2	30.4

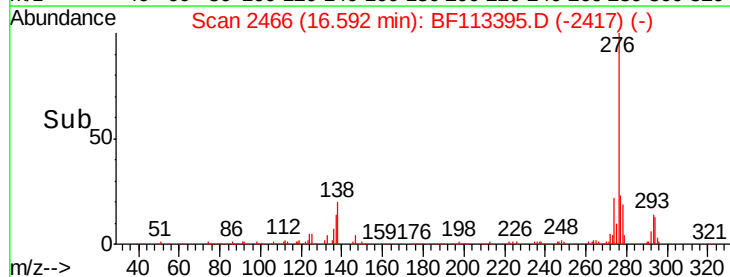
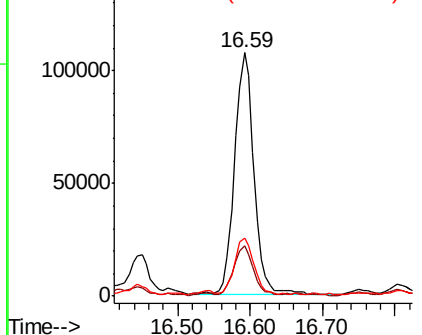


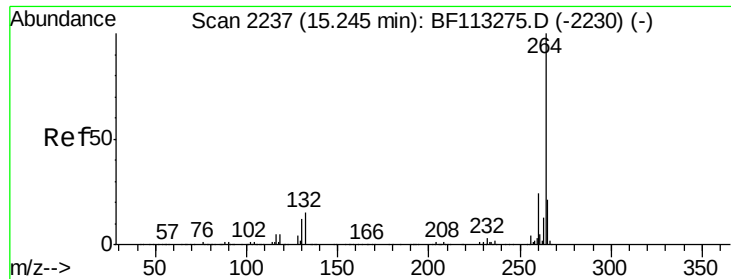
Abundance

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





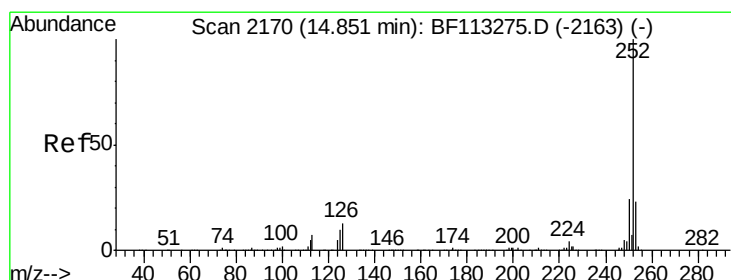
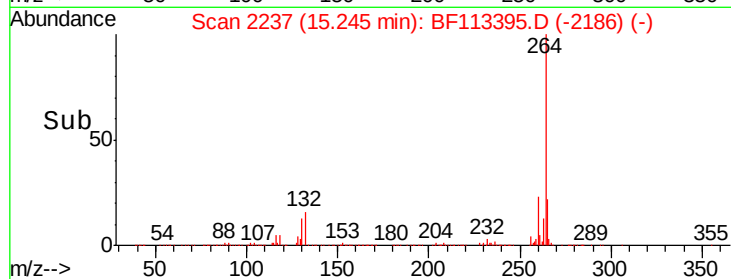
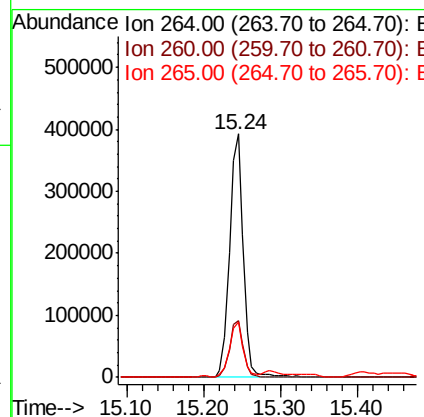
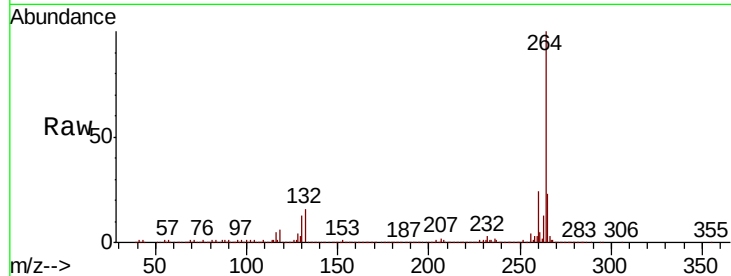
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.24 min Scan# 2237
Delta R.T. -0.00 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Instrument :
BNA_F
ClientSampled :
CS-13DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.1	28.7
265	22.6	17.1	25.7

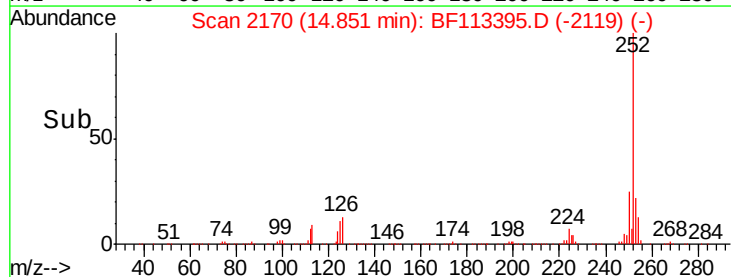
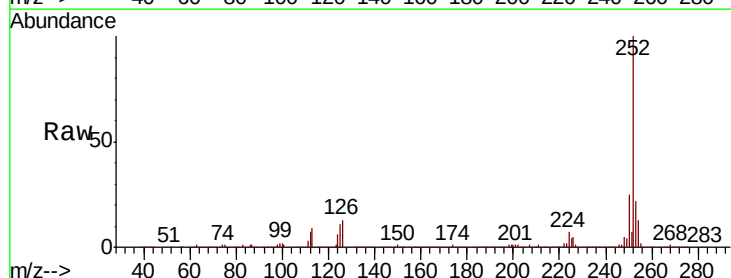
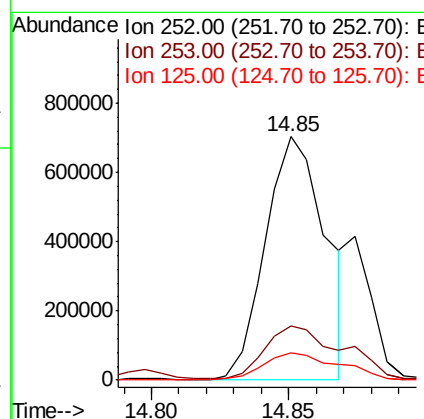
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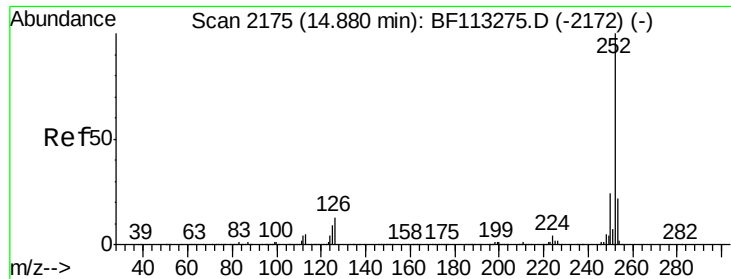
Sohil
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#88
Benzo(b)fluoranthene
Concen: 35.537 ng m
RT: 14.85 min Scan# 2170
Delta R.T. -0.00 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.0	27.0
125	11.3	7.6	11.4





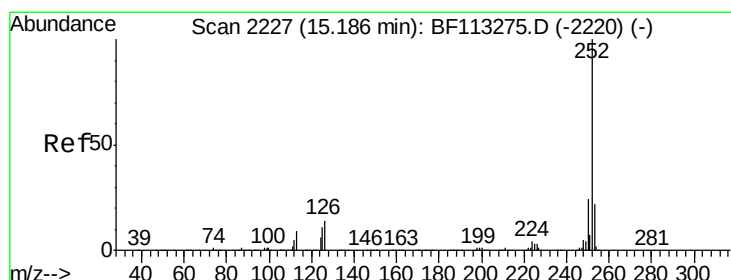
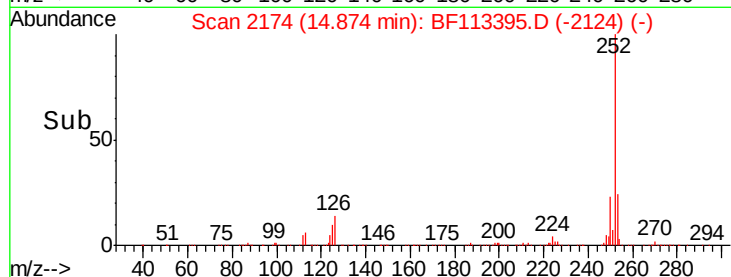
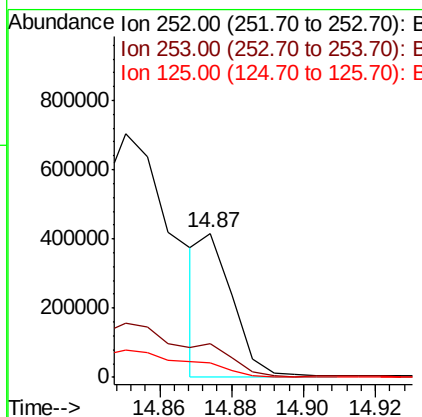
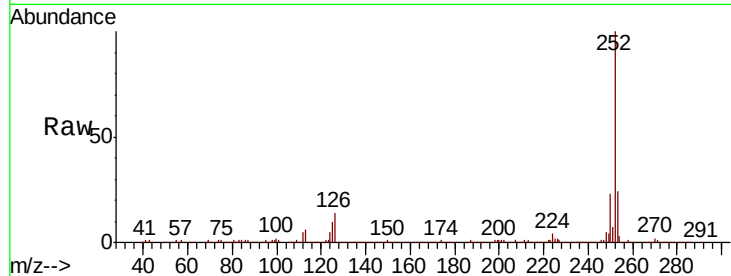
#89
Benzo(k)fluoranthene
Concen: 9.785 ng m
RT: 14.87 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Instrument :
BNA_F
ClientSampleId :
CS-13DL

Tot Ion:	252	Resp:	260919
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.7	26.5
125	10.1	7.3	10.9

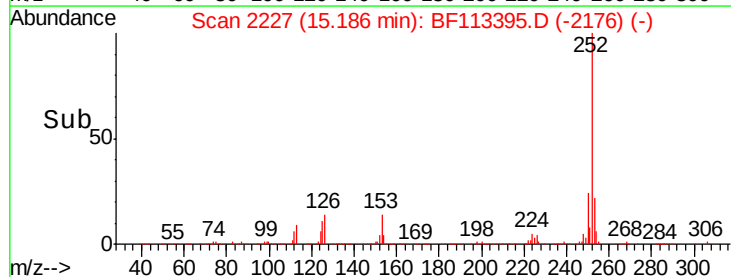
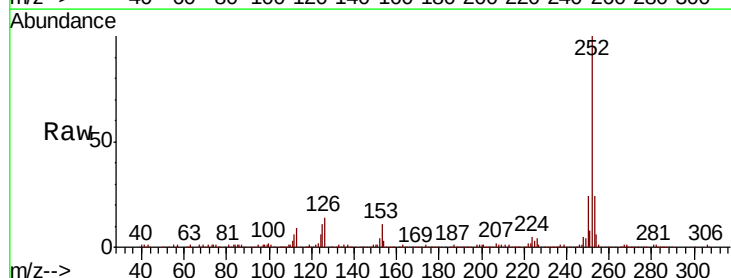
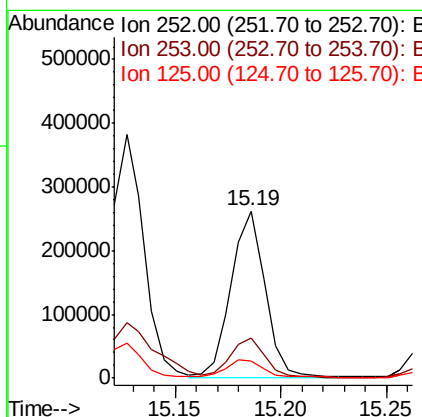
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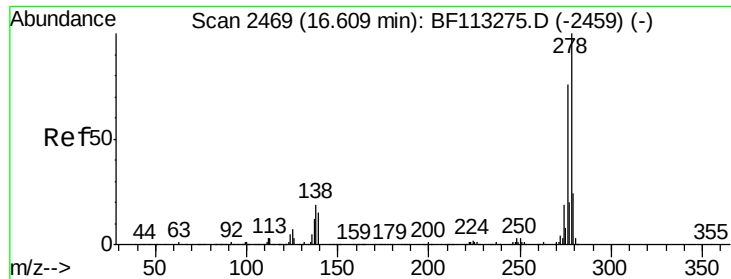
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#90
Benzo(a)pyrene
Concen: 10.804 ng
RT: 15.19 min Scan# 2227
Delta R.T. -0.00 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Tgt Ion:	252	Resp:	290851
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.9	26.9
125	10.6	8.8	13.2





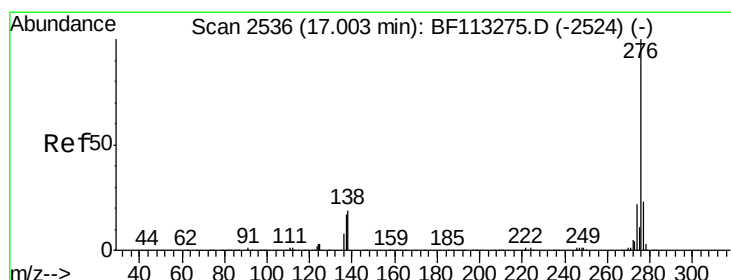
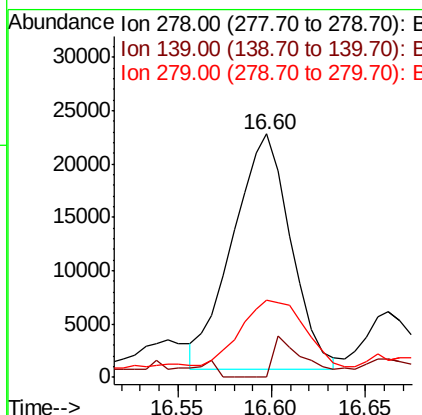
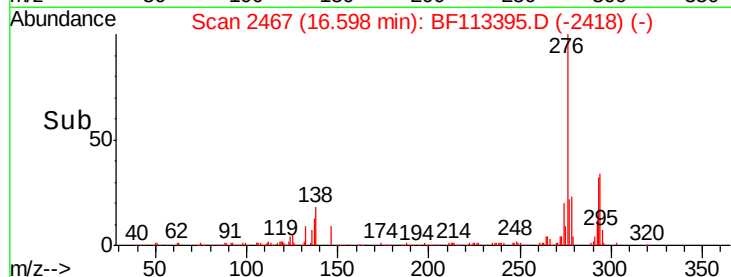
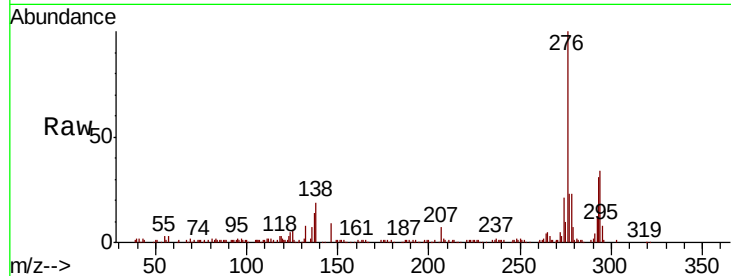
#91
Dibenzo(a,h)anthracene
Concen: 2.046 ng m
RT: 16.60 min Scan# 2467
Delta R.T. -0.01 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Instrument :
BNA_F
ClientSampleId :
CS-13DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.0	18.0#
279	31.5	19.0	28.6#

Manual Integrations
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3/29/2019 4:47:26 PM



#92
Benzo(g,h,i)perylene
Concen: 6.638 ng
RT: 17.00 min Scan# 2535
Delta R.T. -0.01 min
Lab File: BF113395.D
Acq: 29 Mar 2019 2:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.3	18.8	28.2
138	21.4	15.6	23.4

