

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032719\
 Data File : BF113338.D
 Acq On : 27 Mar 2019 18:41
 Operator : JU/SJ
 Sample : K2097-02
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-21

Manual Integrations
 APPROVED

Sohil
 3/28/2019 8:42:04 AM

Quant Time: Mar 28 04:11:11 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	180585	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	661491	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	318754	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	569834	20.00	ng	0.00
76) Chrysene-d12	13.84	240	421918	20.00	ng	0.00
87) Perylene-d12	15.24	264	418558	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	911202	82.51	ng	0.00
7) Phenol-d6	6.35	99	1213603	86.86	ng	0.00
23) Nitrobenzene-d5	7.26	82	775665	69.60	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	306768	77.91	ng	0.00
45) 2-Fluorobiphenyl	9.06	172	1290758	57.83	ng	0.00
79) Terphenyl-d14	12.79	244	1047696	54.73	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.00	128	129602	4.009	ng	97
37) 2-Methylnaphthalene	8.70	142	64246	3.185	ng	99
49) Acenaphthylene	9.59	152	91110	2.749	ng	99
50) Dimethylphthalate	9.45	163	116927	4.950	ng	99
55) Dibenzofuran	9.93	168	57649	2.055	ng	# 95
71) Phenanthrene	11.23	178	212583	7.512	ng	98
72) Anthracene	11.29	178	141499	4.923	ng	97
73) Carbazole	11.44	167	128328	4.679	ng	97
75) Fluoranthene	12.42	202	636955	19.911	ng	100
78) Pyrene	12.64	202	588105	20.115	ng	98
81) Benzo(a)anthracene	13.83	228	284158m	11.766	ng	
83) Chrysene	13.86	228	561654	22.896	ng	98
86) Indeno(1,2,3-cd)pyrene	16.59	276	241089	11.451	ng	98
88) Benzo(b)fluoranthene	14.85	252	873755m	33.605	ng	
89) Benzo(k)fluoranthene	14.87	252	166374m	7.286	ng	
90) Benzo(a)pyrene	15.19	252	245227	10.639	ng	96
91) Dibenzo(a,h)anthracene	16.60	278	71185m	3.572	ng	
92) Benzo(g,h,i)perylene	17.00	276	210537	10.476	ng	97

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

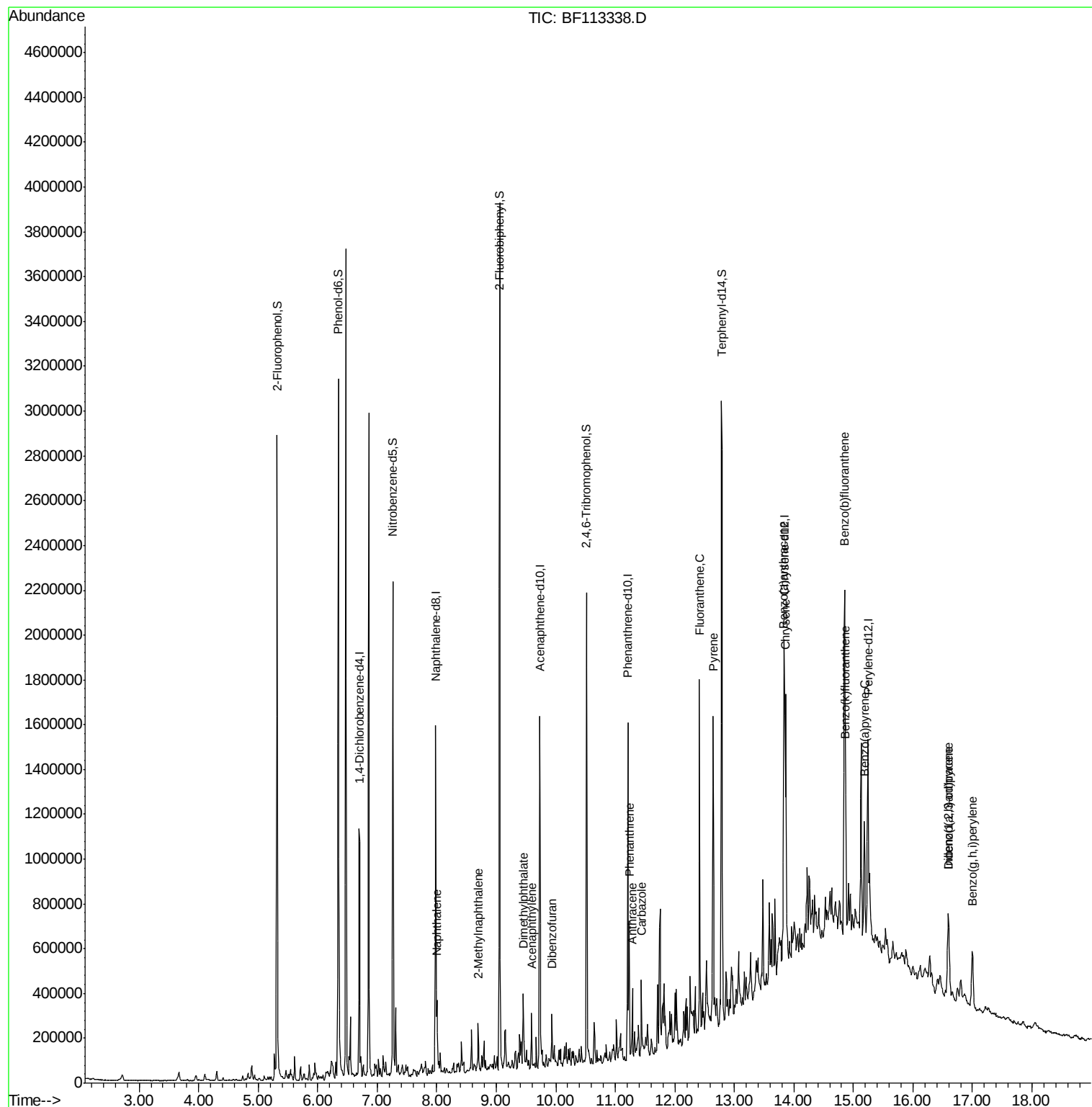
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032719\
Data File : BF113338.D
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#1

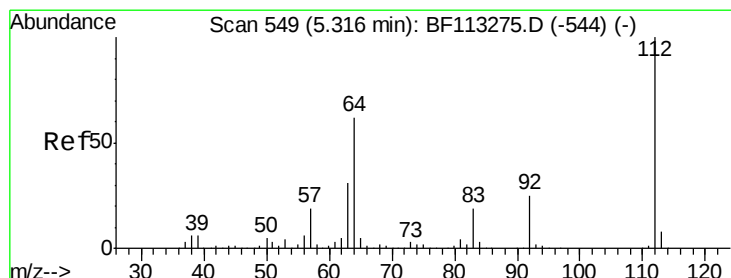
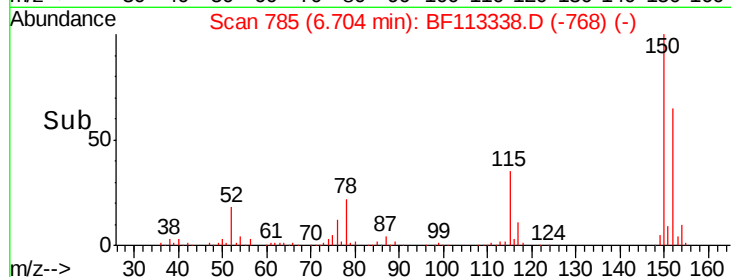
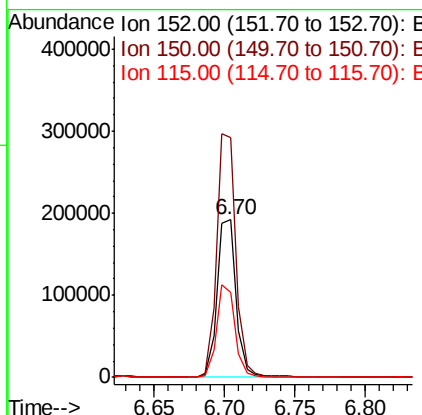
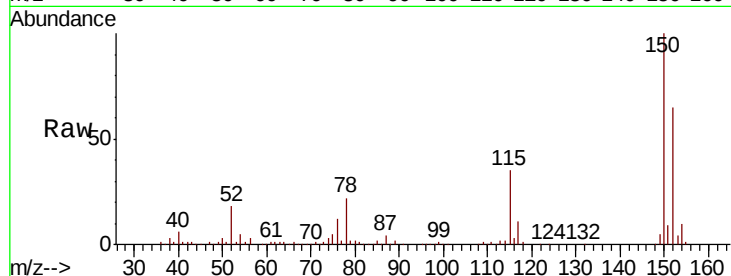
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 785
Delta R.T. -0.00 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Instrument :
BNA_F
ClientSampleId :
CS-21

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.7	124.7	187.1
115	53.8	46.0	69.0

Manual Integrations
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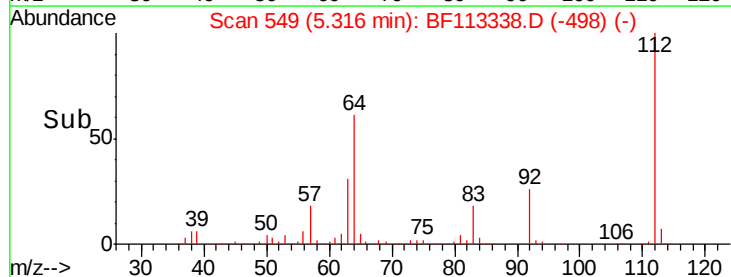
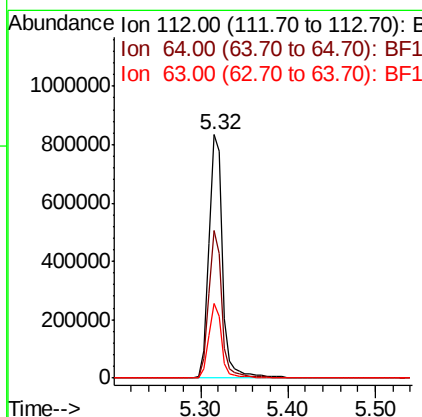
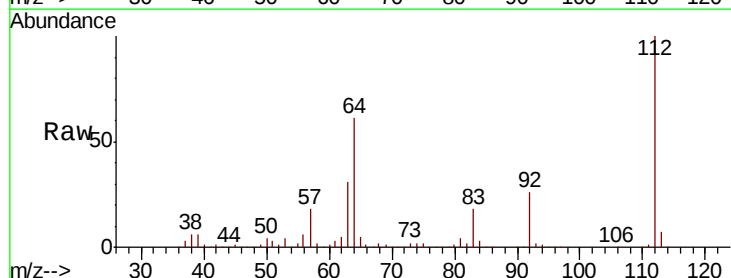
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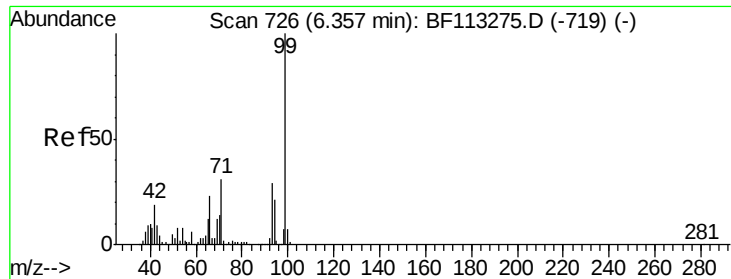


#5

2-Fluorophenol
Concen: 82.505 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.00 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.6	49.2	73.8
63	30.7	24.9	37.3





#7

Phenol-d6

Concen: 86.863 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF113338.D

Acq: 27 Mar 2019 18:41

Instrument :

BNA_F

ClientSampled :

CS-21

Tot Ion: 99 Resp: 1213603

Ion Ratio Lower Upper

99 100

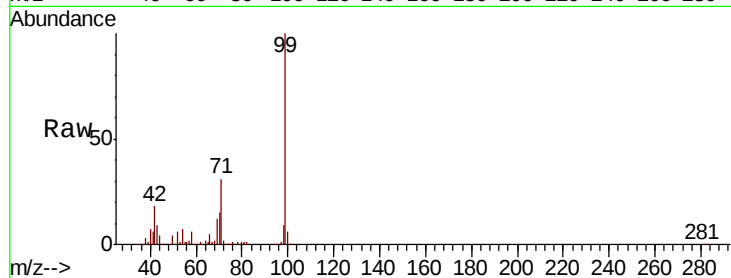
42 17.5 14.8 22.2

71 30.9 24.9 37.3

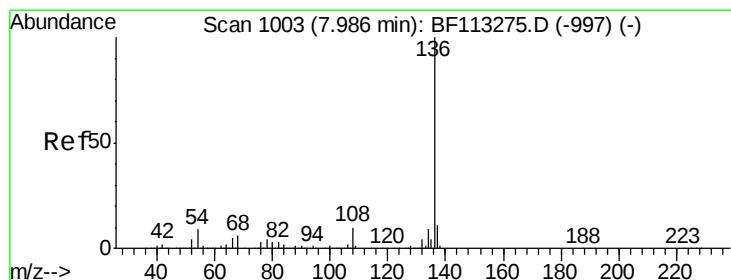
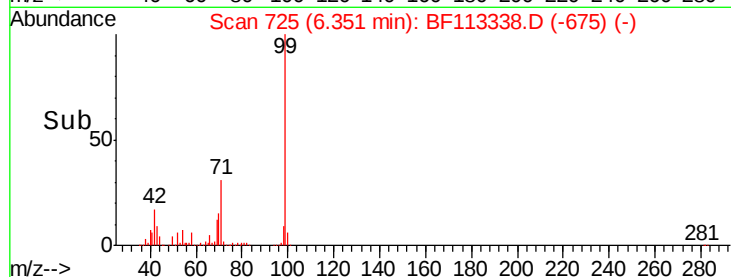
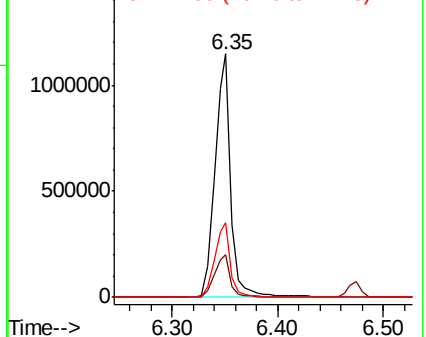
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.98 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF113338.D

Acq: 27 Mar 2019 18:41

Tgt Ion: 136 Resp: 661491

Ion Ratio Lower Upper

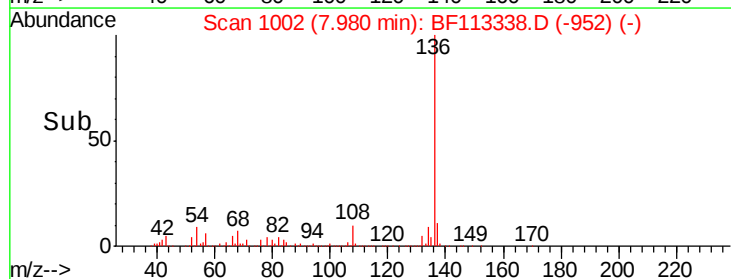
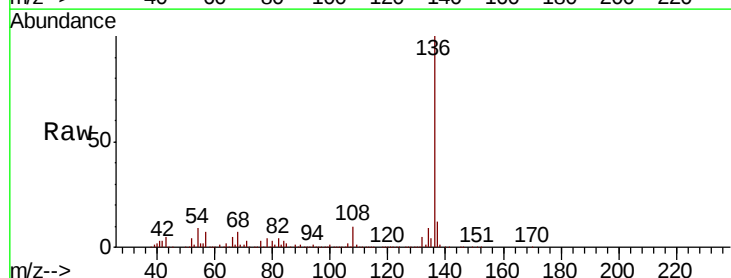
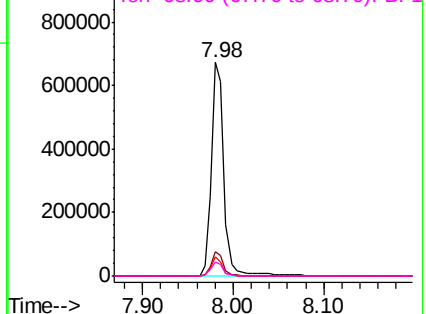
136 100

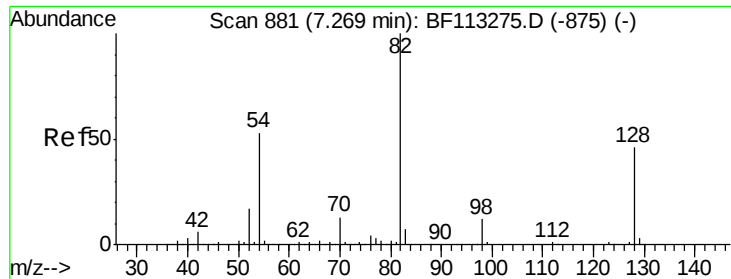
137 11.6 8.9 13.3

54 8.8 7.0 10.6

68 6.7 4.8 7.2

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





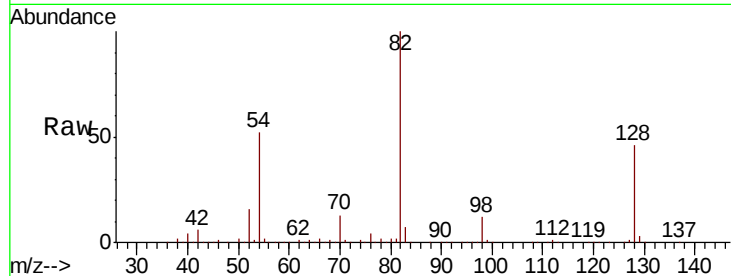
#23
Nitrobenzene-d5
Concen: 69.599 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.01 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Instrument :
BNA_F
ClientSampled :
CS-21

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.5	54.7
54	51.6	42.2	63.2

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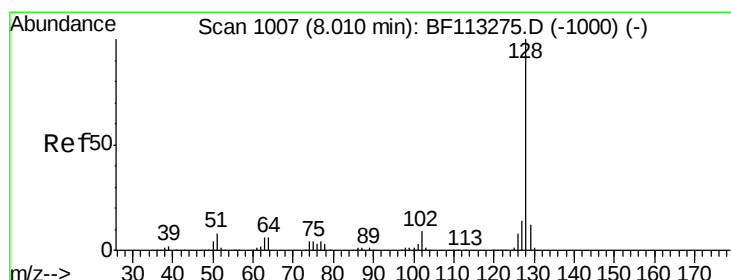
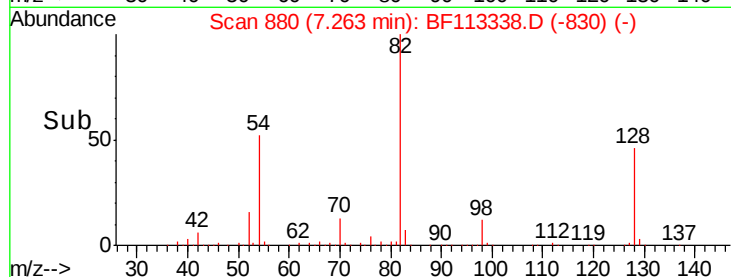
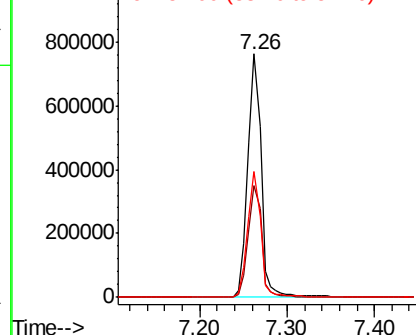


Abundance

Ion 82.00 (81.70 to 82.70): BF1

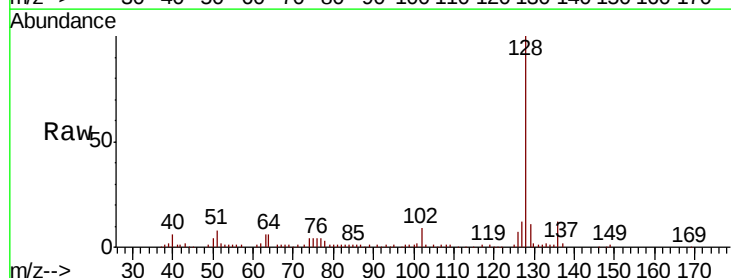
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31
Naphthalene
Concen: 4.009 ng
RT: 8.00 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.3	13.9
127	12.3	10.9	16.3

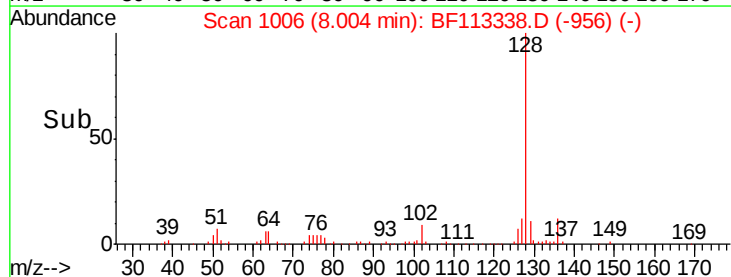
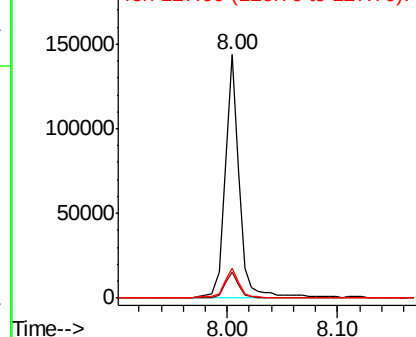


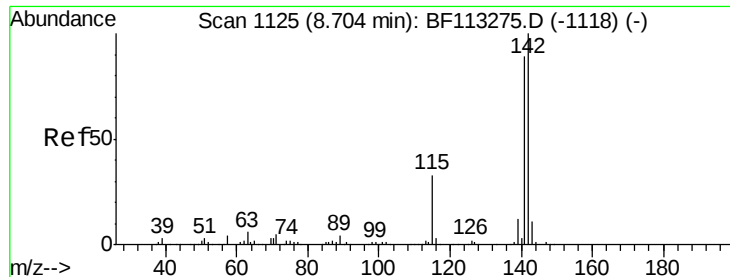
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





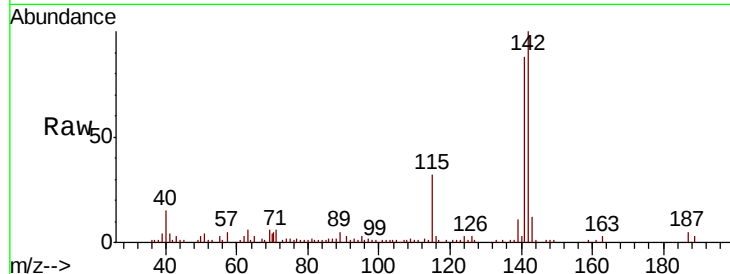
#37
2-Methylnaphthalene
Concen: 3.185 ng
RT: 8.70 min Scan# 1124
Delta R.T. -0.01 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Instrument :
BNA_F
ClientSampleId :
CS-21

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.0	106.6
115	31.5	26.6	39.8

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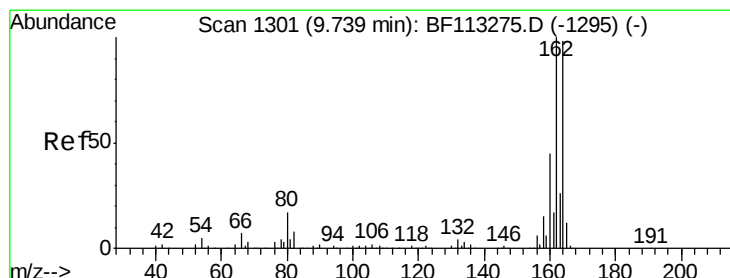
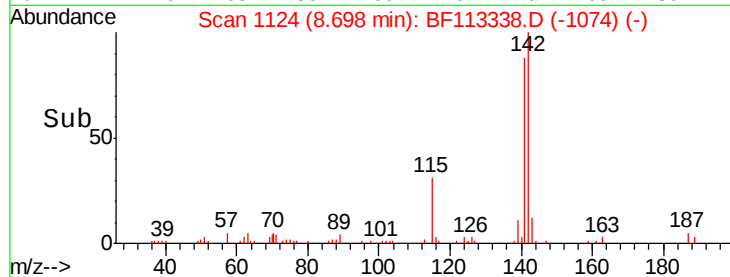
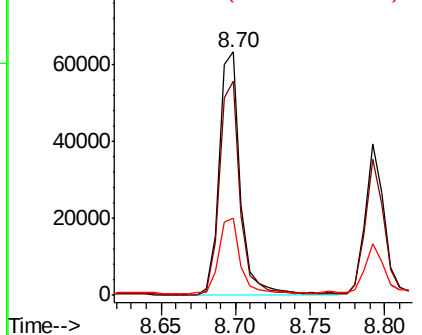


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

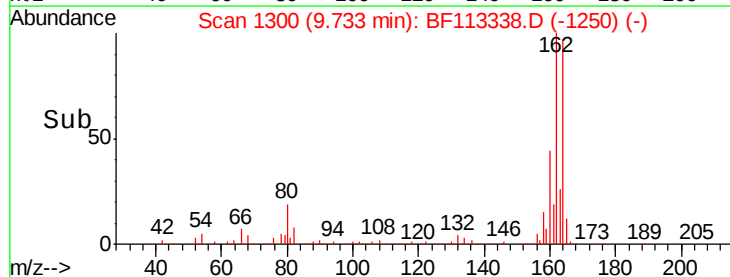
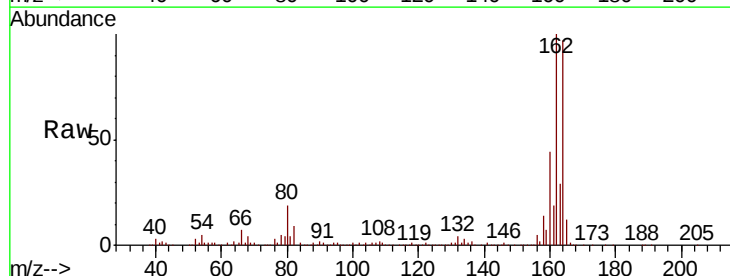
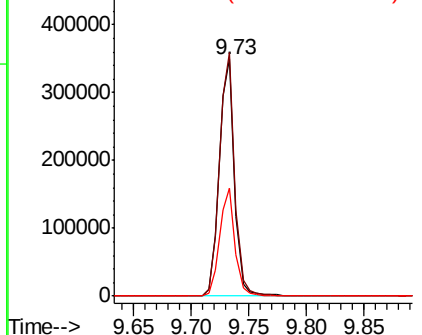
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.8	122.6
160	45.3	36.4	54.6

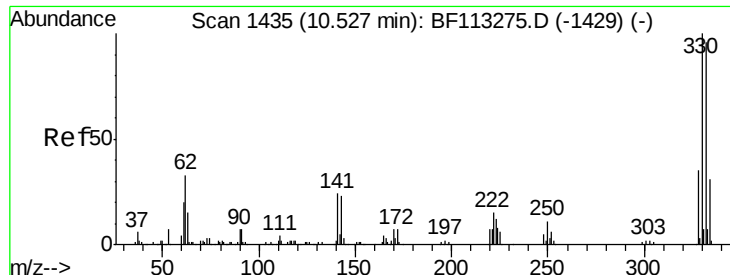
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





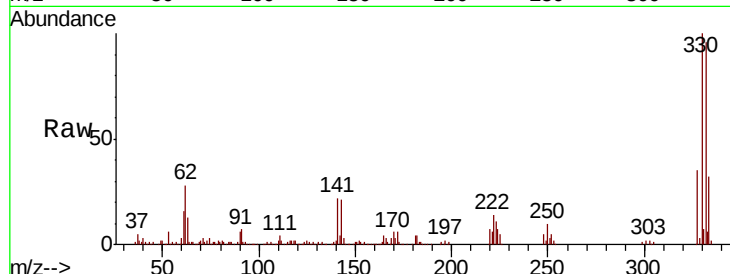
#42
 2,4,6-Tribromophenol
 Concen: 77.913 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. -0.01 min
 Lab File: BF113338.D
 Acq: 27 Mar 2019 18:41

Instrument :
 BNA_F
 ClientSampled :
 CS-21

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.8	116.6
141	28.1	22.7	34.1

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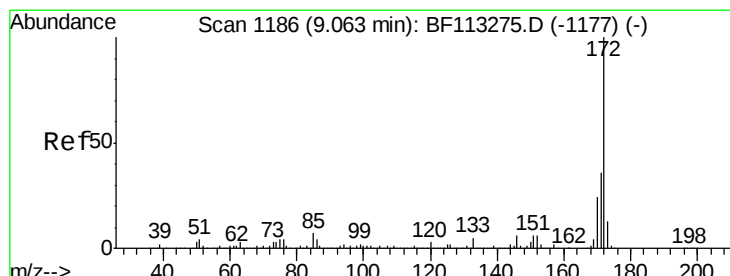
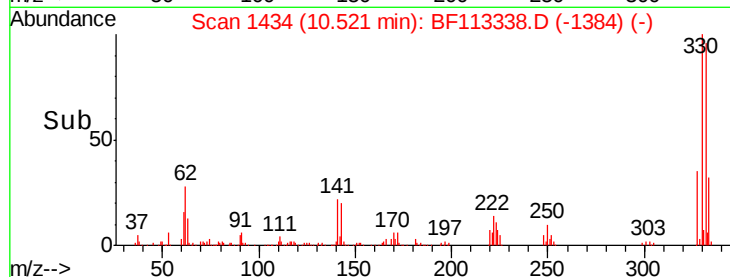
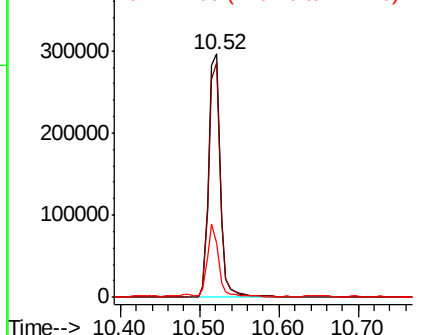


Abundance

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: 57.831 ng
 RT: 9.06 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: BF113338.D
 Acq: 27 Mar 2019 18:41

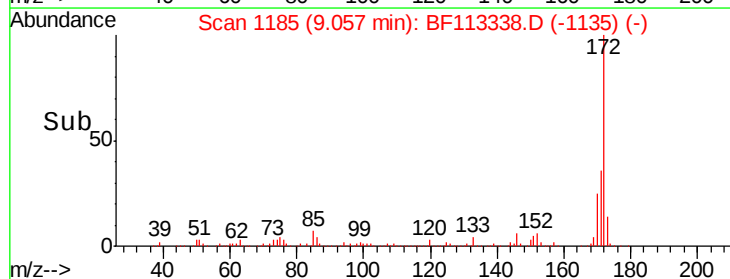
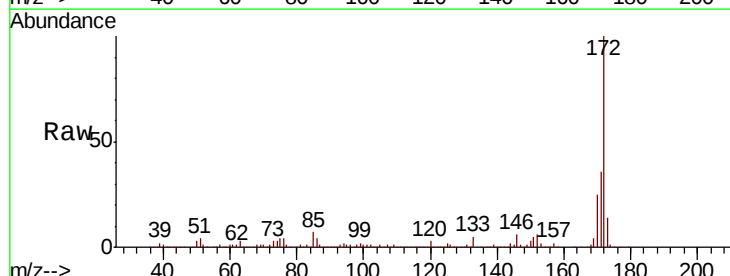
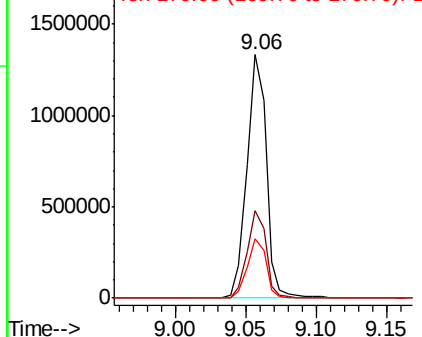
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.0	43.6
170	24.6	19.5	29.3

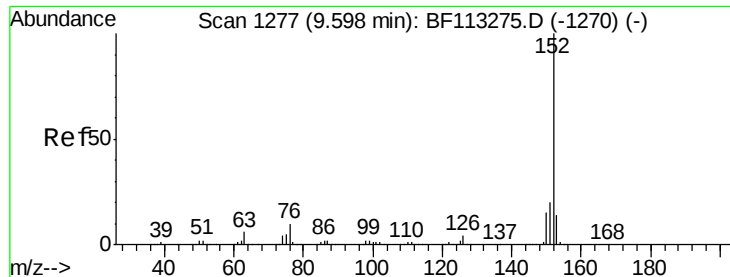
Abundance

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: 2.749 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.01 min

Lab File: BF113338.D

Acq: 27 Mar 2019 18:41

Instrument :

BNA_F

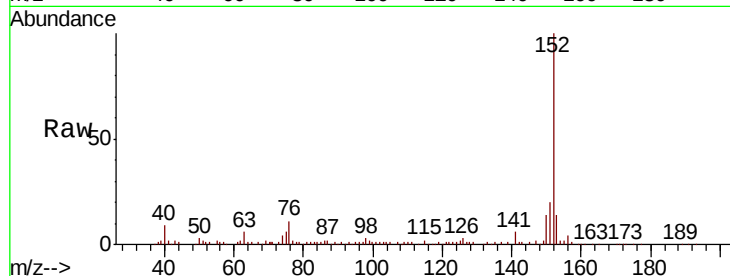
ClientSampled :

CS-21

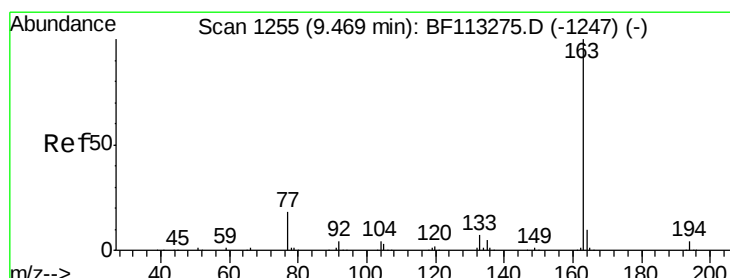
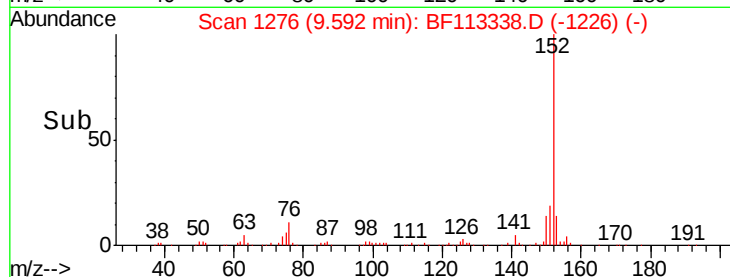
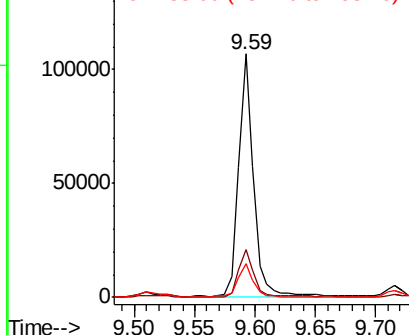
Tot Ion:	152	Resp:	91110
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.2	24.4
153	13.8	11.0	16.6

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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: 4.950 ng

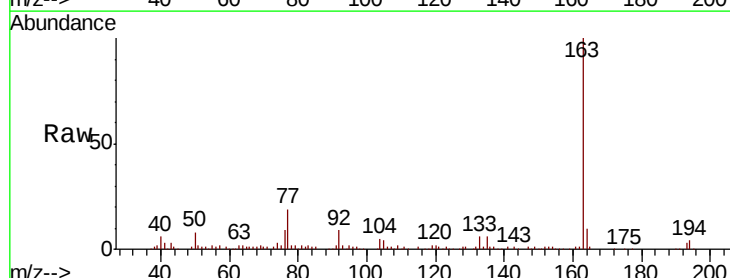
RT: 9.45 min Scan# 1252

Delta R.T. -0.02 min

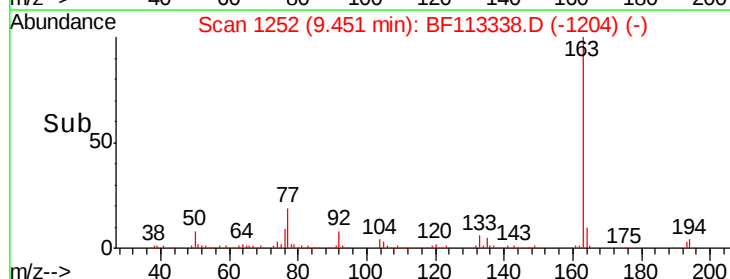
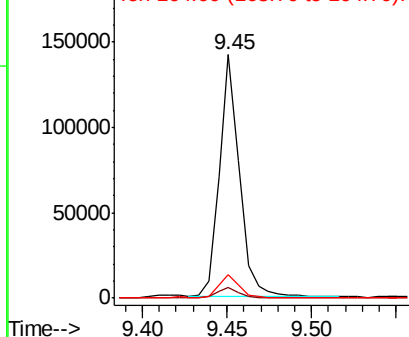
Lab File: BF113338.D

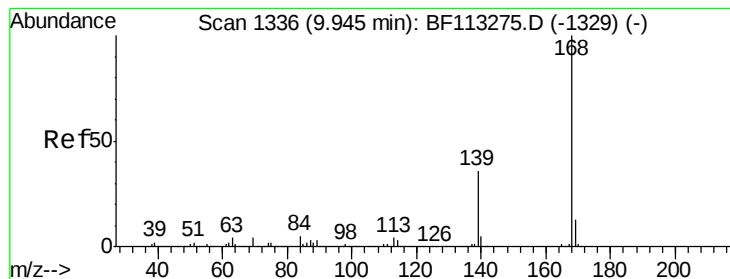
Acq: 27 Mar 2019 18:41

Tgt Ion:	163	Resp:	116927
Ion Ratio	Lower	Upper	
163	100		
194	4.2	3.0	4.6
164	9.8	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





#55

Dibenzofuran

Concen: 2.055 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF113338.D

Acq: 27 Mar 2019 18:41

Instrument :

BNA_F

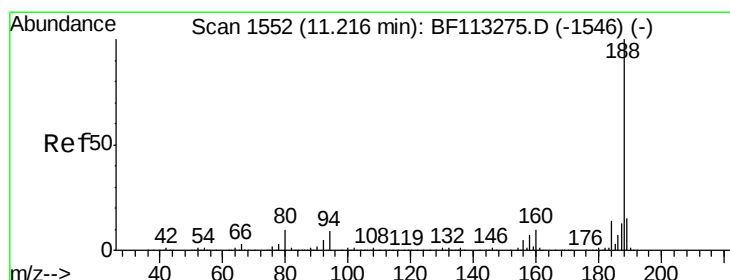
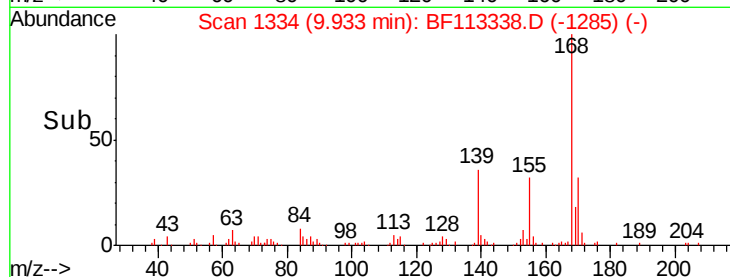
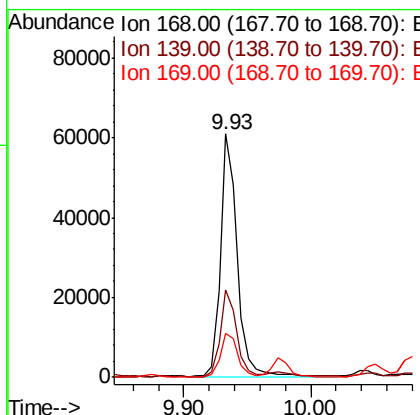
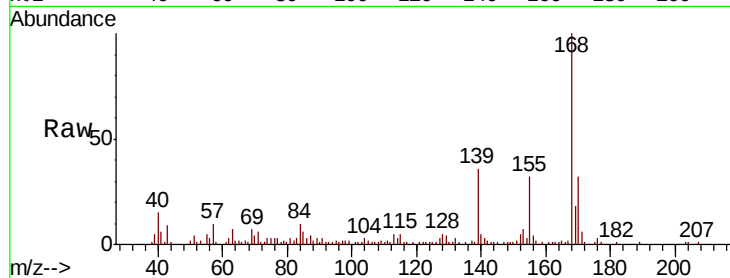
ClientSampled :

CS-21

Tot Ion:	168	Resp:	57649
Ion	Ratio	Lower	Upper
168	100		
139	35.7	29.7	44.5
169	18.0	10.7	16.1#

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#64

Phenanthrene-d10

Concen: 20.000 ng

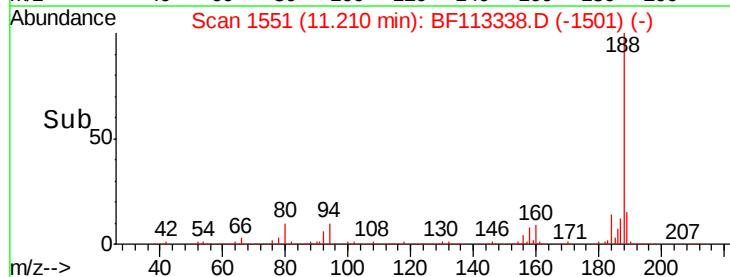
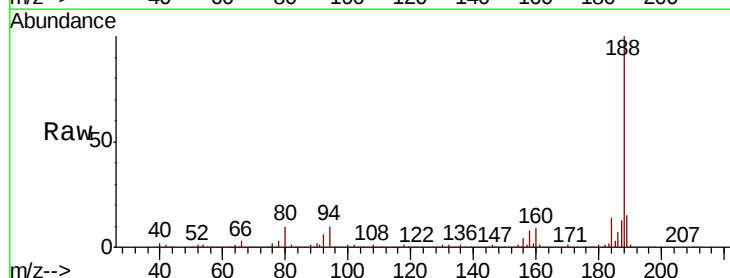
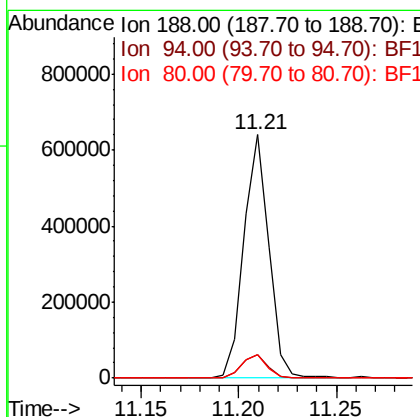
RT: 11.21 min Scan# 1551

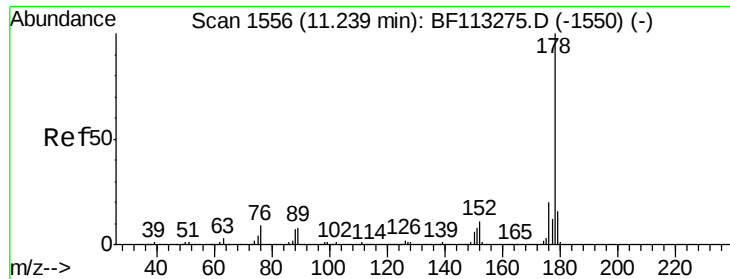
Delta R.T. -0.01 min

Lab File: BF113338.D

Acq: 27 Mar 2019 18:41

Tgt Ion:	188	Resp:	569834
Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.0	10.6
80	9.6	7.7	11.5





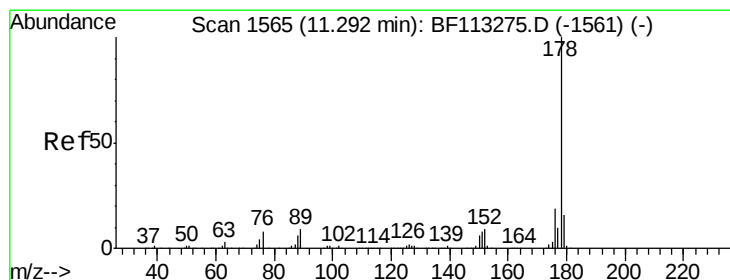
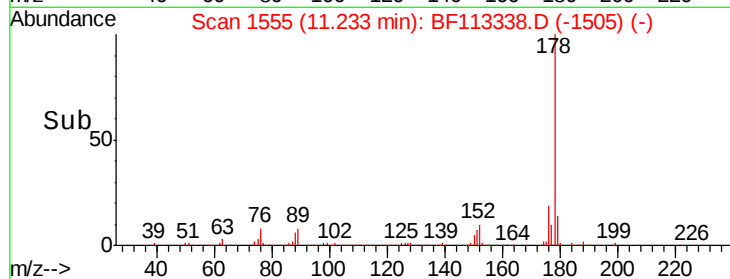
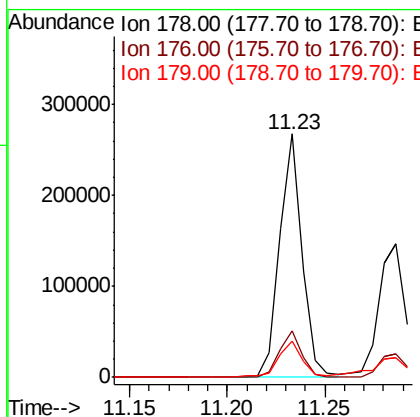
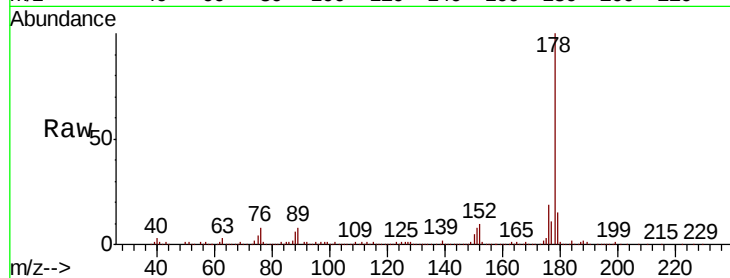
#71
Phenanthrene
Concen: 7.512 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Instrument :
BNA_F
ClientSampled :
CS-21

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.2	24.2
179	15.0	12.7	19.1

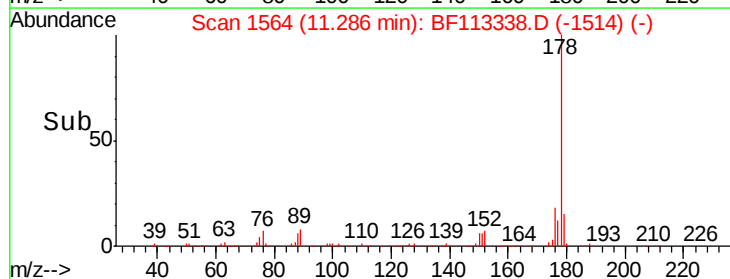
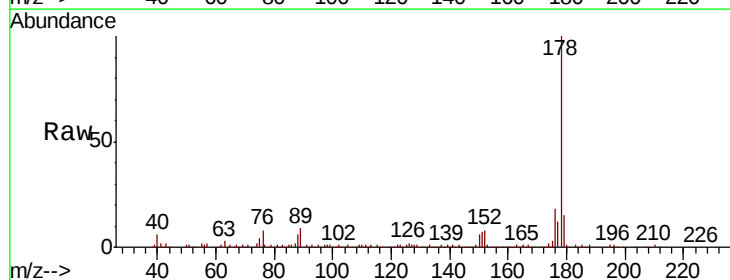
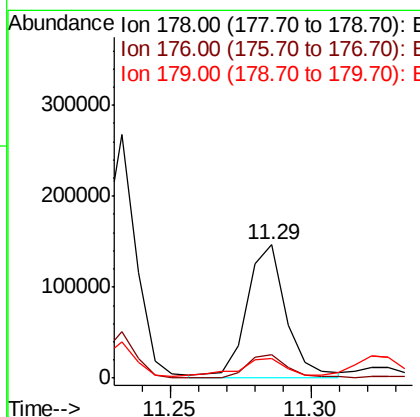
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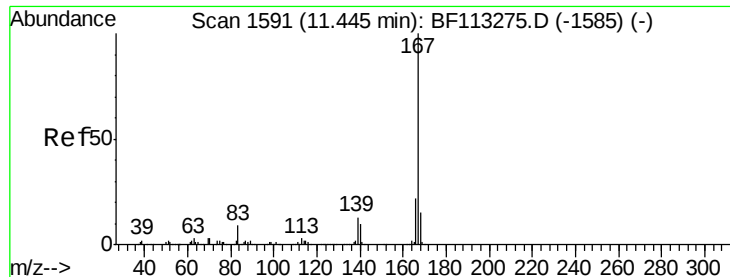
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#72
Anthracene
Concen: 4.923 ng
RT: 11.29 min Scan# 1564
Delta R.T. -0.01 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.4	23.2
179	15.2	12.8	19.2





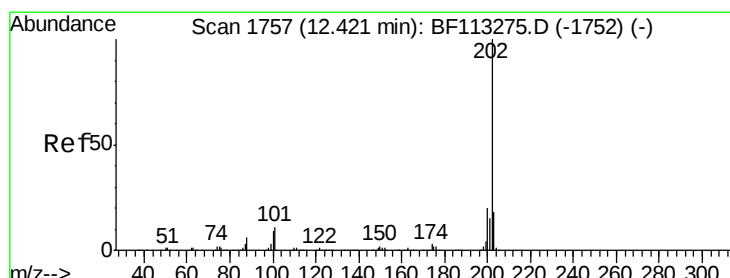
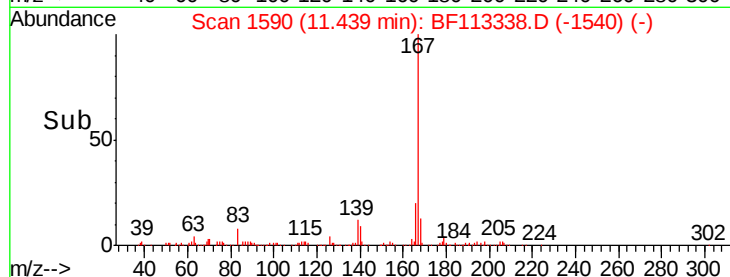
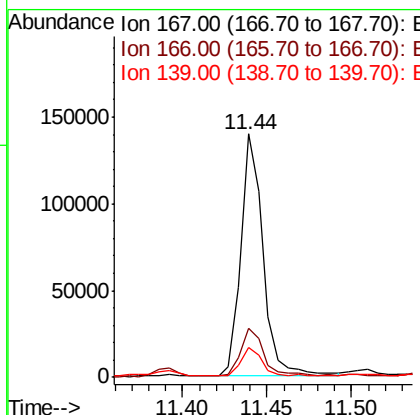
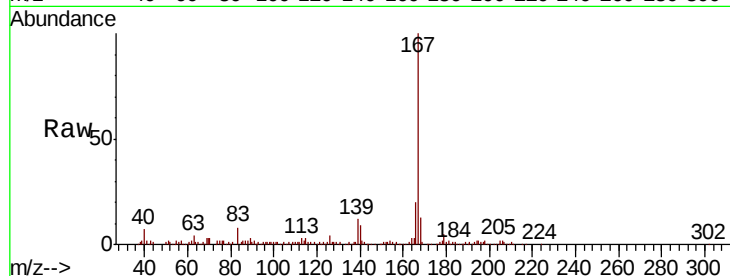
#73
 Carbazole
 Concen: 4.679 ng
 RT: 11.44 min Scan# 1590
 Delta R.T. -0.01 min
 Lab File: BF113338.D
 Acq: 27 Mar 2019 18:41

Instrument :
 BNA_F
 ClientSampleId :
 CS-21

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100				
166	20.1		17.4	26.0	
139	12.4		10.4	15.6	

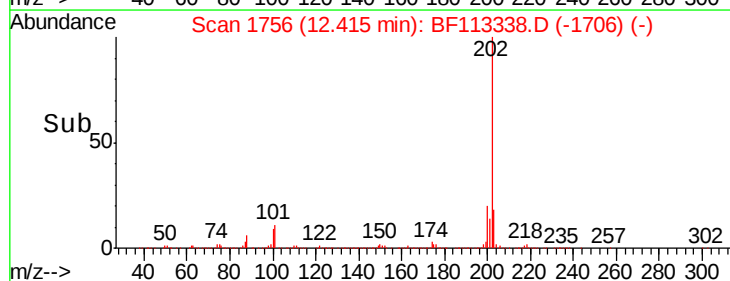
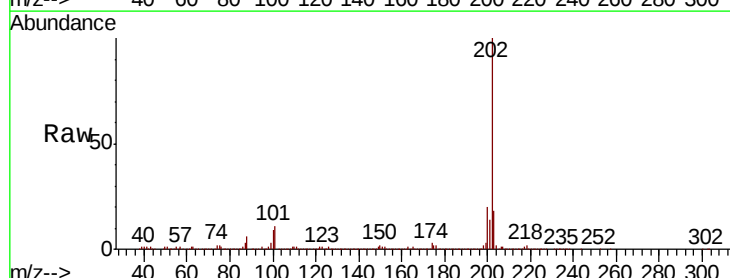
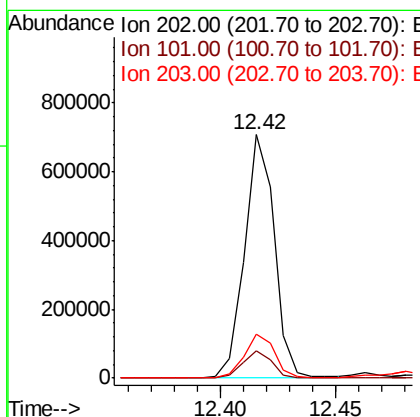
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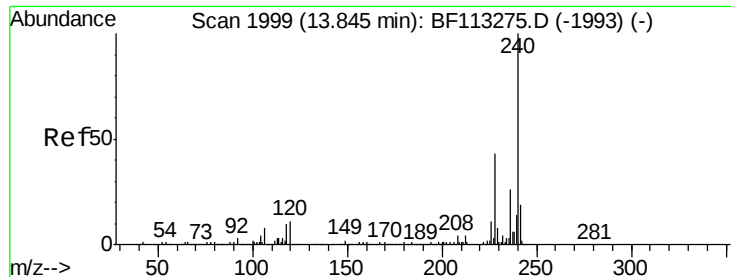
Sohil
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#75
 Fluoranthene
 Concen: 19.911 ng
 RT: 12.42 min Scan# 1756
 Delta R.T. -0.01 min
 Lab File: BF113338.D
 Acq: 27 Mar 2019 18:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	11.4		0.0	31.4	
203	17.9		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: BF113338.D

Acq: 27 Mar 2019 18:41

Instrument :

BNA_F

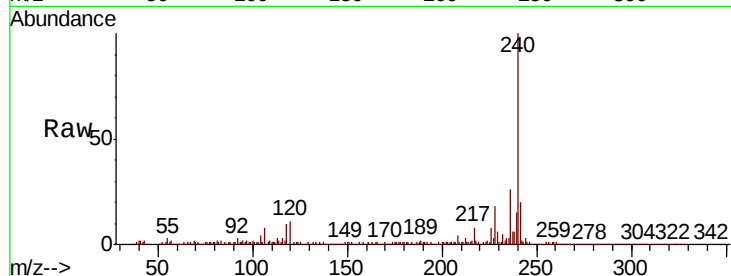
ClientSampleId :

CS-21

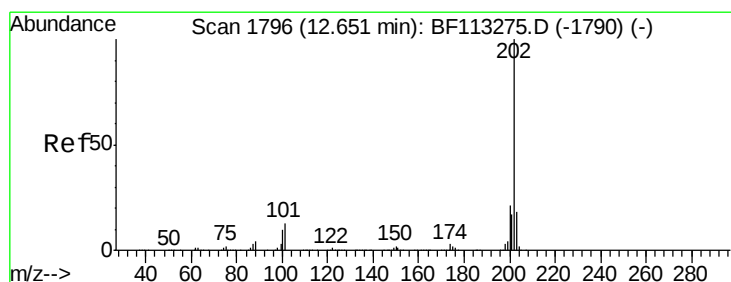
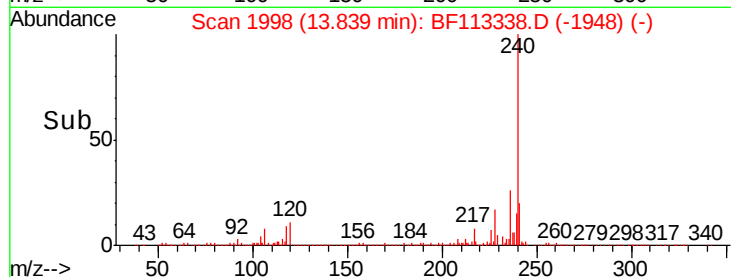
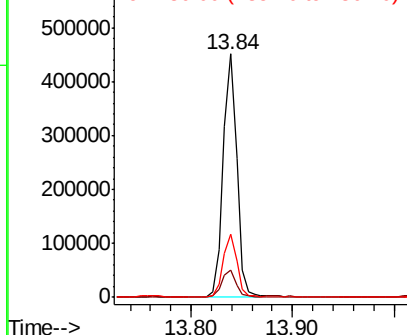
Tot Ion:	240	Resp:	421918
Ion Ratio	Lower	Upper	
240	100		
120	11.4	8.8	13.2
236	26.2	20.9	31.3

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



#78

Pyrene

Concen: 20.115 ng

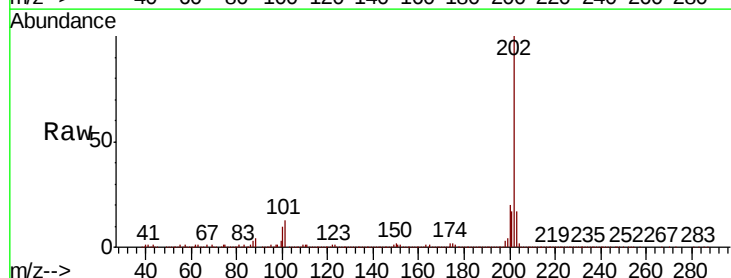
RT: 12.64 min Scan# 1795

Delta R.T. -0.01 min

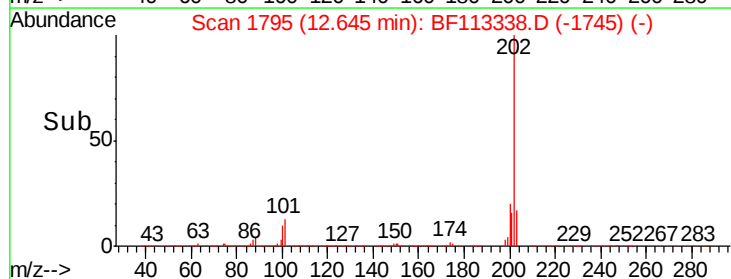
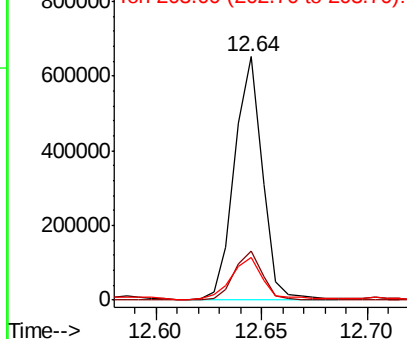
Lab File: BF113338.D

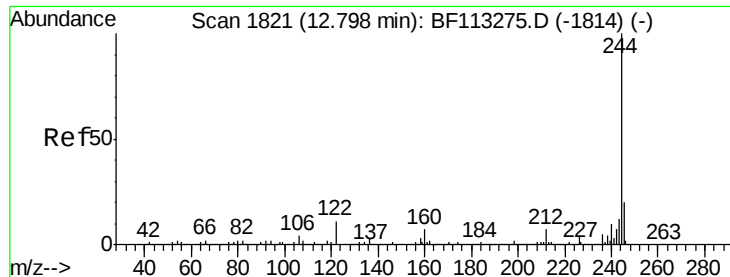
Acq: 27 Mar 2019 18:41

Tgt Ion:	202	Resp:	588105
Ion Ratio	Lower	Upper	
202	100		
200	20.2	16.8	25.2
203	17.4	14.4	21.6



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





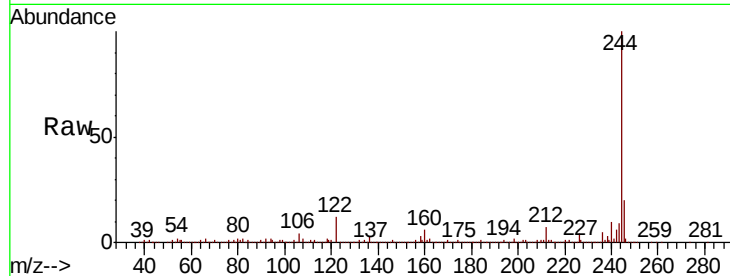
#79
 Terphenyl-d14
 Concen: 54.733 ng
 RT: 12.79 min Scan# 1819
 Delta R.T. -0.01 min
 Lab File: BF113338.D
 Acq: 27 Mar 2019 18:41

Instrument :
 BNA_F
 ClientSampled :
 CS-21

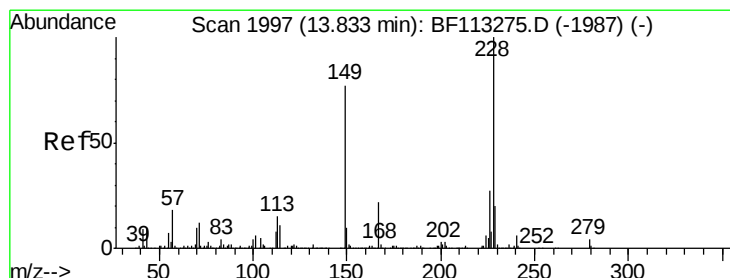
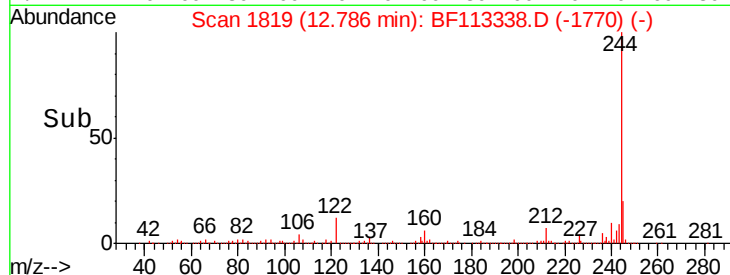
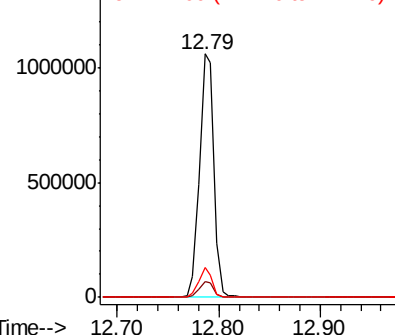
Tot Ion:244 Resp: 1047696
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.5 8.3
 122 12.0 8.6 13.0

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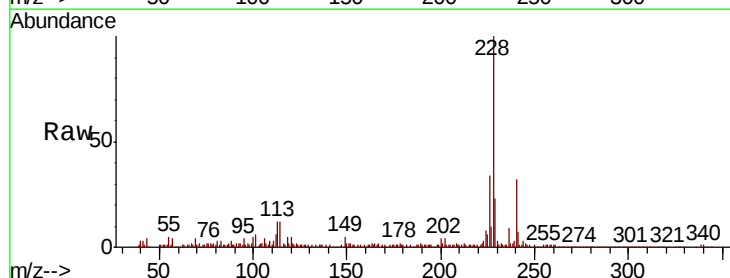


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

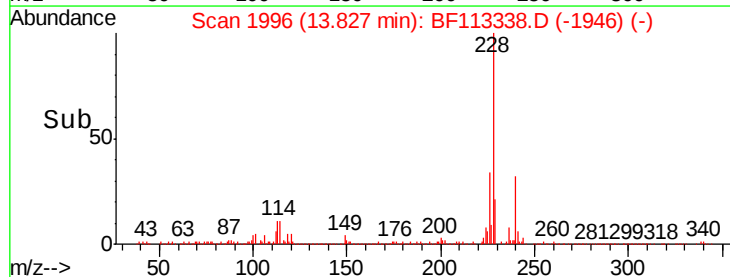
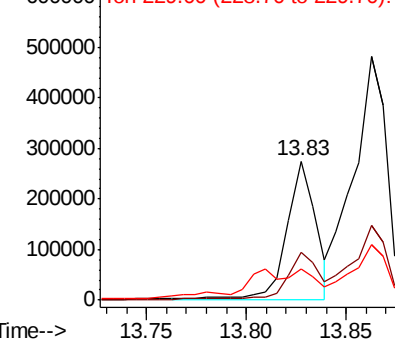


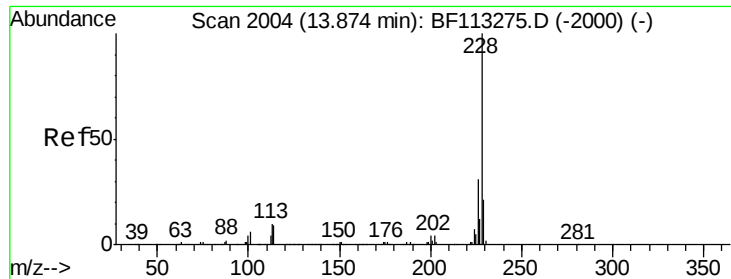
#81
 Benzo(a)anthracene
 Concen: 11.766 ng m
 RT: 13.83 min Scan# 1996
 Delta R.T. -0.01 min
 Lab File: BF113338.D
 Acq: 27 Mar 2019 18:41

Tgt Ion:228 Resp: 284158
 Ion Ratio Lower Upper
 228 100
 226 34.1 21.8 32.8#
 229 22.7 16.2 24.4



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





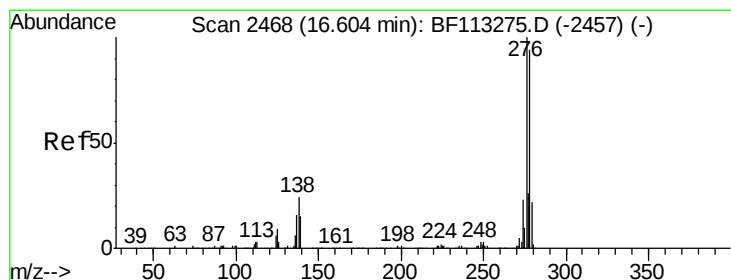
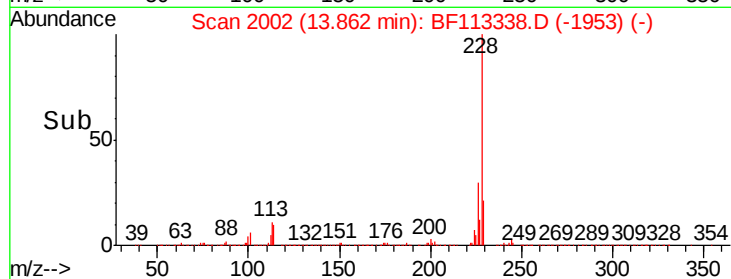
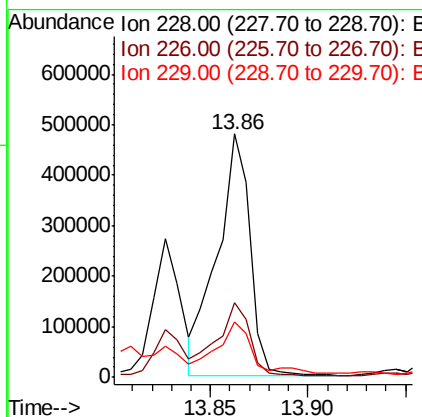
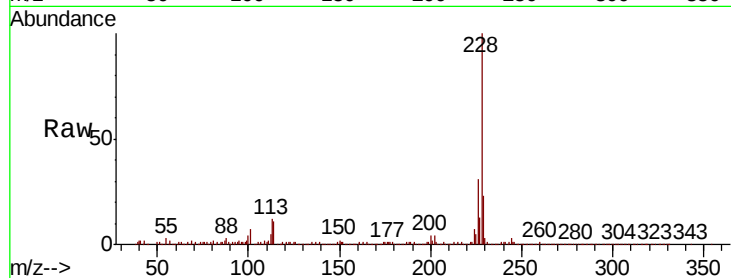
#83
Chrysene
Concen: 22.896 ng
RT: 13.86 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Instrument :
BNA_F
ClientSampleId :
CS-21

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.3	36.5
229	22.6	16.3	24.5

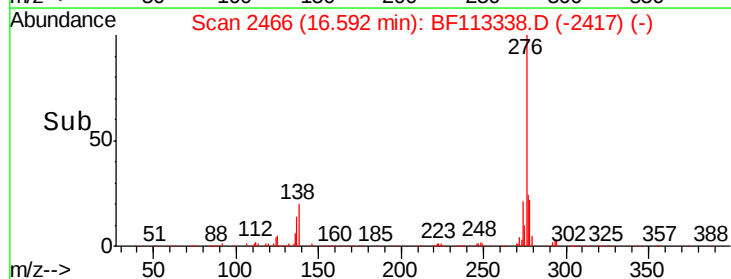
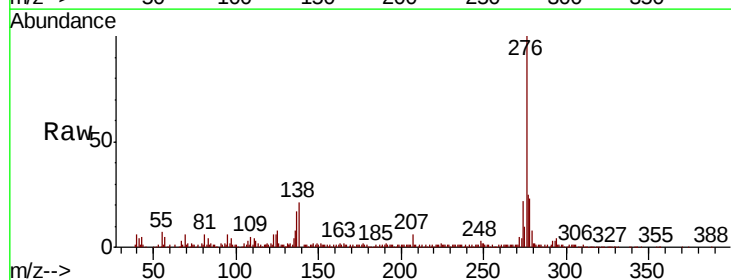
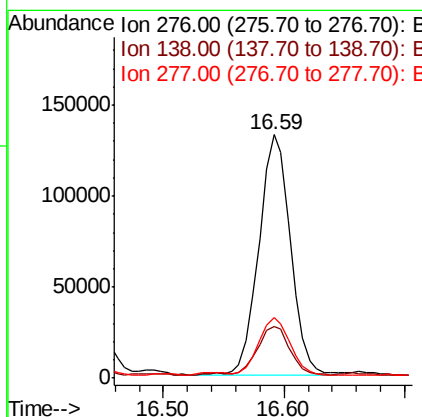
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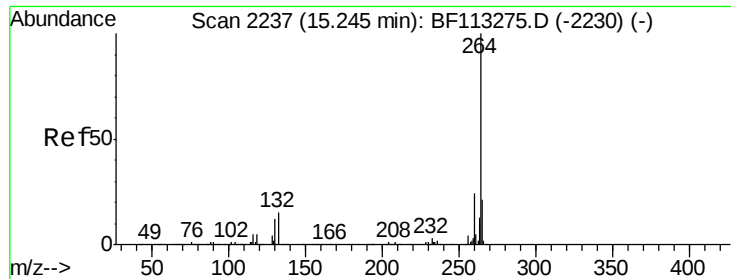
Sohil
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#86
Indeno(1,2,3-cd)pyrene
Concen: 11.451 ng
RT: 16.59 min Scan# 2466
Delta R.T. -0.01 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.6	18.1	27.1
277	24.2	20.2	30.4





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.24 min Scan# 2237

Delta R.T. -0.00 min

Lab File: BF113338.D

Acq: 27 Mar 2019 18:41

Instrument :

BNA_F

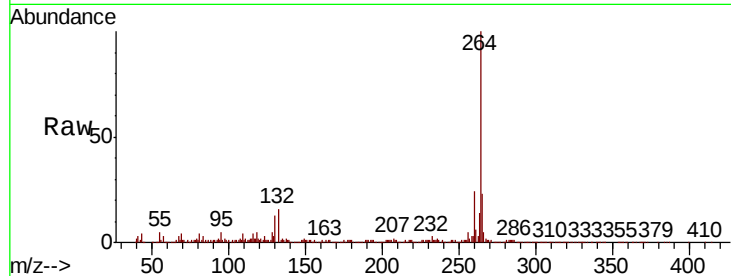
ClientSampleId :

CS-21

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.1	28.7
265	23.2	17.1	25.7

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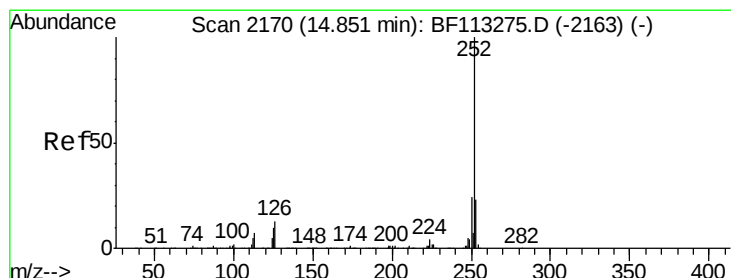
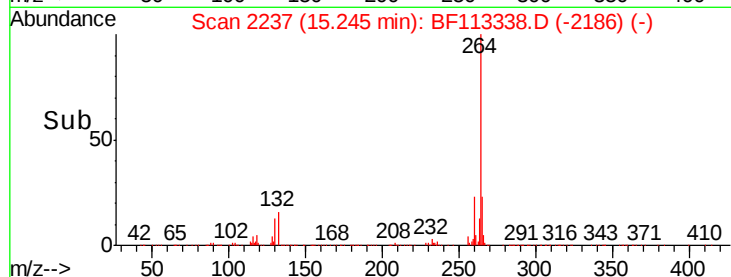
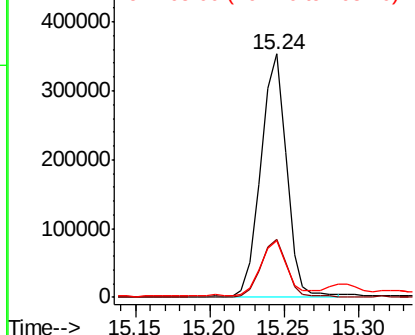


Abundance

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: 33.605 ng m

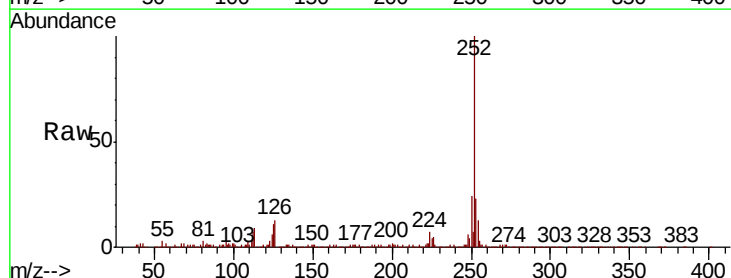
RT: 14.85 min Scan# 2170

Delta R.T. -0.00 min

Lab File: BF113338.D

Acq: 27 Mar 2019 18:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.0	27.0
125	11.0	7.6	11.4

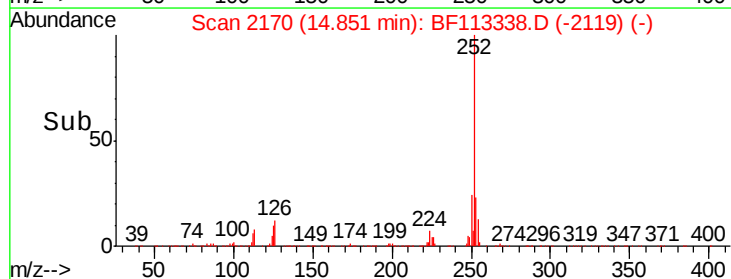
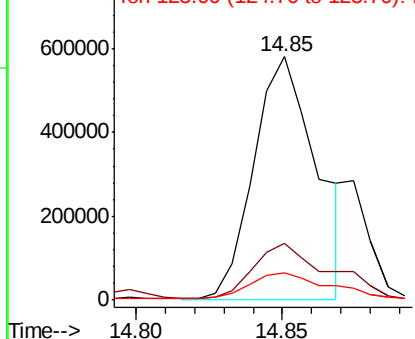


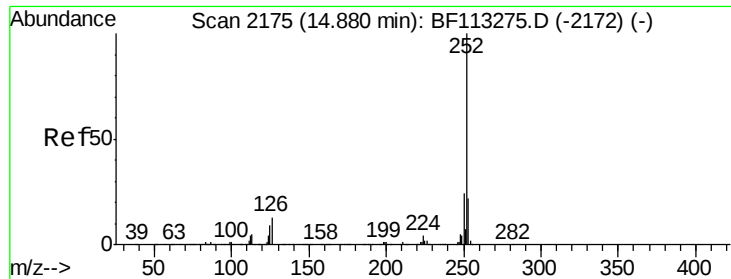
Abundance

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: 7.286 ng m

RT: 14.87 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BF113338.D

Acq: 27 Mar 2019 18:41

Instrument :

BNA_F

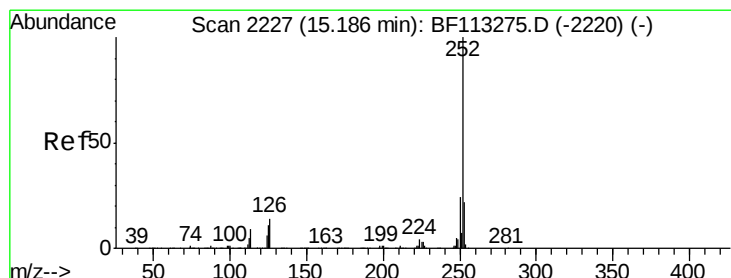
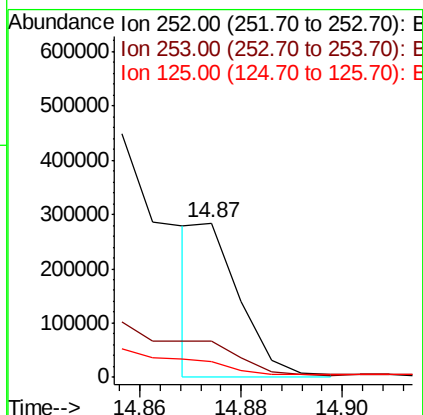
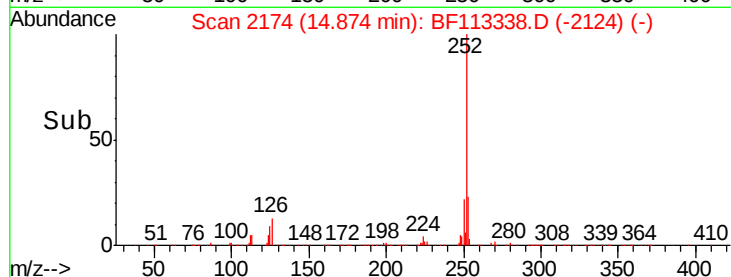
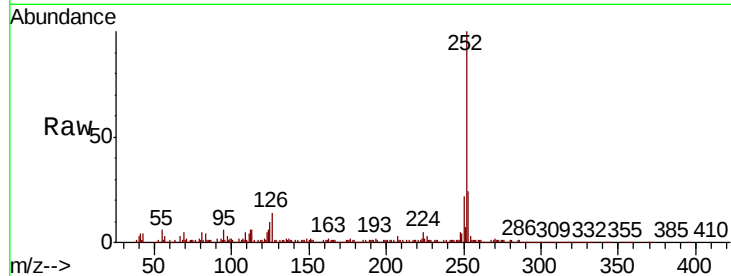
ClientSampleId :

CS-21

Tot Ion:	252	Resp:	166374
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.7	26.5
125	10.4	7.3	10.9

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#90

Benzo(a)pyrene

Concen: 10.639 ng

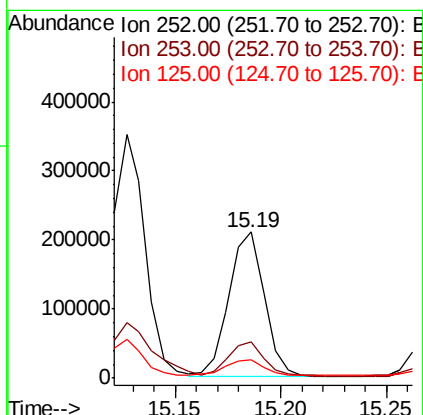
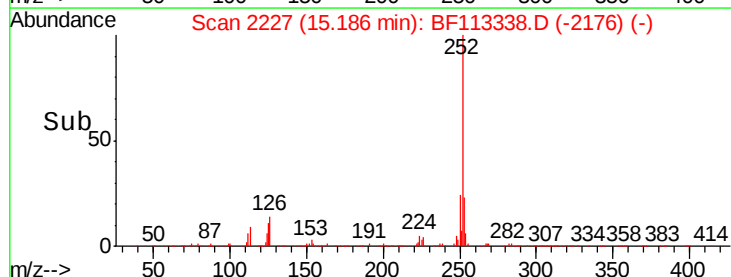
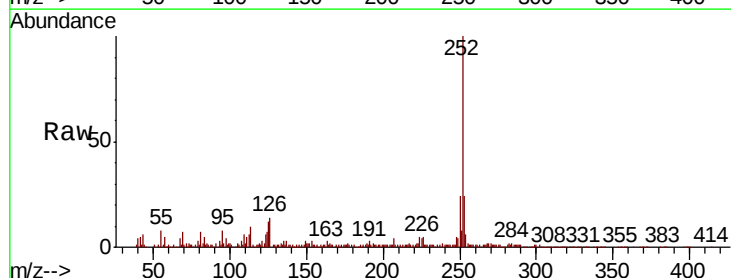
RT: 15.19 min Scan# 2227

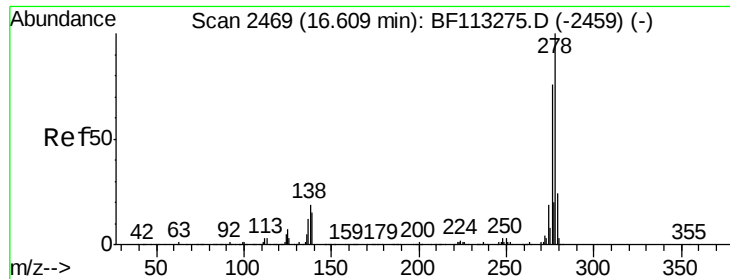
Delta R.T. -0.00 min

Lab File: BF113338.D

Acq: 27 Mar 2019 18:41

Tgt Ion:	252	Resp:	245227
Ion Ratio	Lower	Upper	
252	100		
253	24.5	17.9	26.9
125	12.4	8.8	13.2





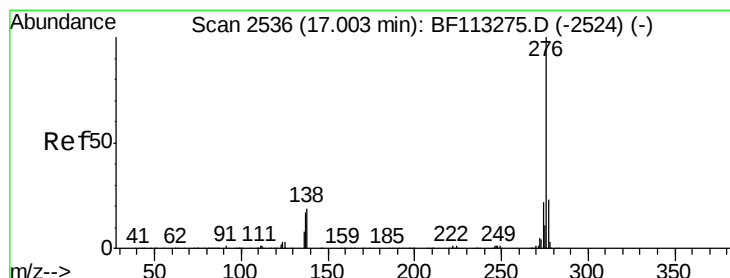
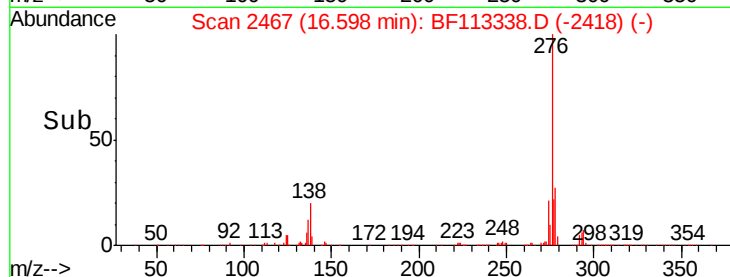
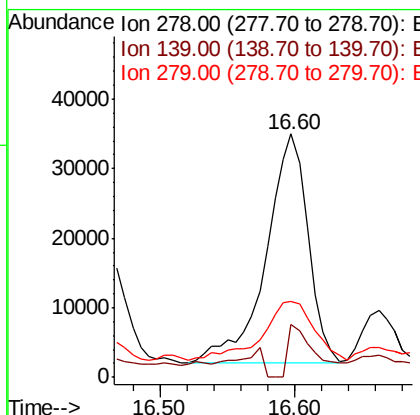
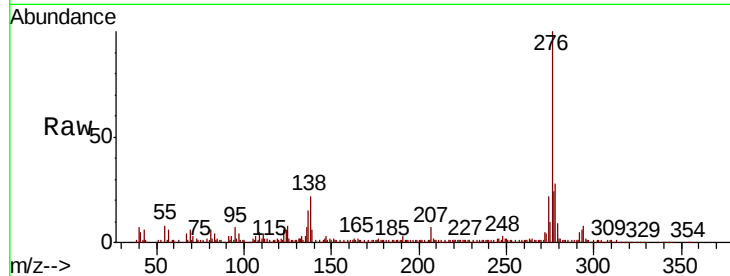
#91
Dibenzo(a,h)anthracene
Concen: 3.572 ng/mL
RT: 16.60 min Scan# 2467
Delta R.T. -0.01 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Instrument :
BNA_F
ClientSampleId :
CS-21

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.0	12.0	18.0#
279	31.4	19.0	28.6#

Manual Integrations
APPROVED

Sohil
3/28/2019 8:42:04 AM



#92
Benzo(g,h,i)perylene
Concen: 10.476 ng/mL
RT: 17.00 min Scan# 2535
Delta R.T. -0.01 min
Lab File: BF113338.D
Acq: 27 Mar 2019 18:41

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.8	28.2
138	22.3	15.6	23.4

