

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\
 Data File : BF120336.D
 Acq On : 15 May 2020 22:03
 Operator : MA/SJ
 Sample : L2503-06 10X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-051420

Quant Time: May 16 05:32:52 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 15 12:31:31 2020
 Response via : Initial Calibration

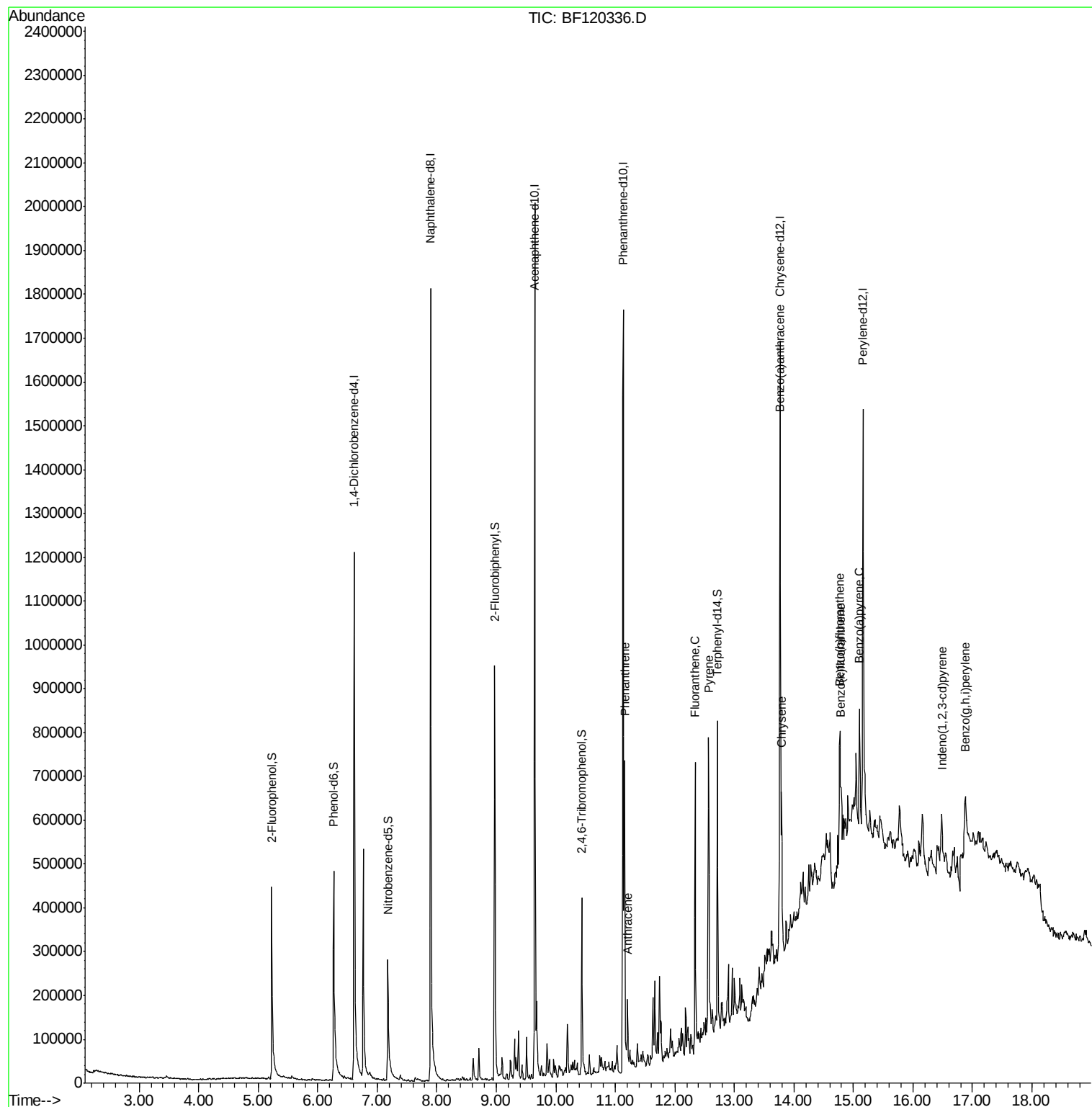
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.61	152	256249	20.00	ng	0.00
21) Naphthalene-d8	7.90	136	988216	20.00	ng	0.00
39) Acenaphthene-d10	9.65	164	478224	20.00	ng	0.00
64) Phenanthrene-d10	11.13	188	755593	20.00	ng	0.00
76) Chrysene-d12	13.77	240	462897	20.00	ng	0.00
87) Perylene-d12	15.16	264	443907	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	187163	14.21	ng	0.00
7) Phenol-d6	6.27	99	285525	17.14	ng	0.00
23) Nitrobenzene-d5	7.18	82	163228	11.31	ng	-0.01
42) 2,4,6-Tribromophenol	10.44	330	56473	14.48	ng	0.00
45) 2-Fluorobiphenyl	8.97	172	335658	14.42	ng	0.00
79) Terphenyl-d14	12.72	244	256948	12.26	ng	0.00
Target Compounds						
71) Phenanthrene	11.16	178	284409	8.958	ng	98
72) Anthracene	11.21	178	78476	2.309	ng	98
75) Fluoranthene	12.34	202	288712	8.484	ng	97
78) Pyrene	12.57	202	307344	9.313	ng	97
81) Benzo(a)anthracene	13.76	228	147907	6.058	ng	98
83) Chrysene	13.79	228	139059	5.304	ng	96
86) Indeno(1,2,3-cd)pyrene	16.49	276	63785	2.681	ng	96
88) Benzo(b)fluoranthene	14.77	252	135606m	5.594	ng	
89) Benzo(k)fluoranthene	14.79	252	62109m	2.957	ng	
90) Benzo(a)pyrene	15.10	252	115653	5.319	ng	# 93
92) Benzo(a,h,i)perylene	16.88	276	74542	3.838	ng	# 91

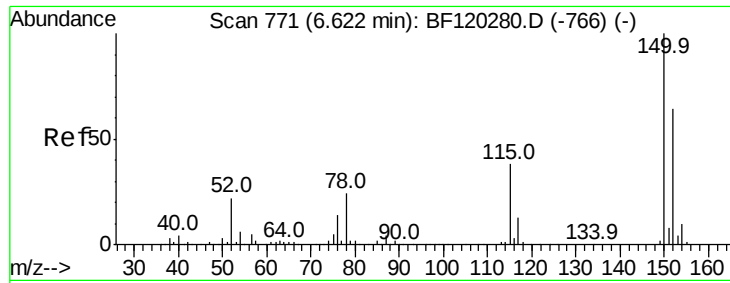
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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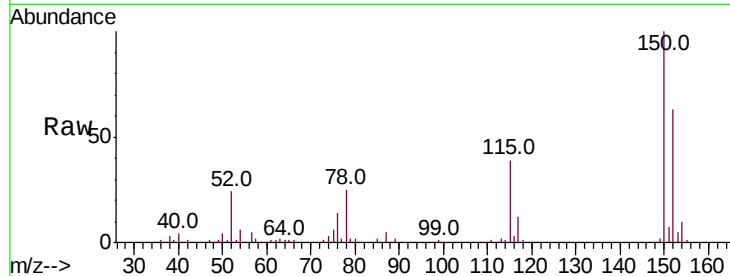


#1

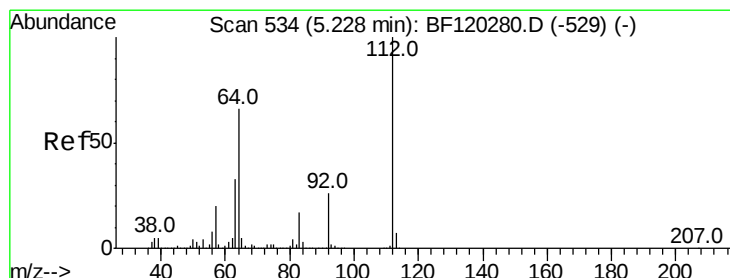
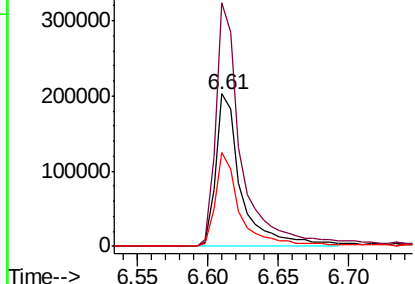
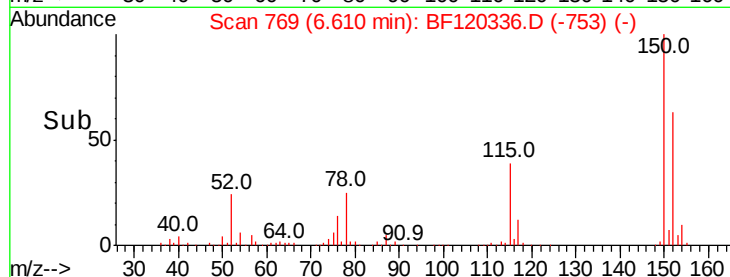
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.61 min Scan# 769
Delta R.T. -0.01 min
Lab File: BF120336.D
Acq: 15 May 2020 22:03

Instrument :
BNA_F
ClientSampleId :
OR-02-051420

Tot Ion:152 Resp: 256249
Ion Ratio Lower Upper
152 100
150 159.6 126.2 189.2
115 61.5 47.9 71.9



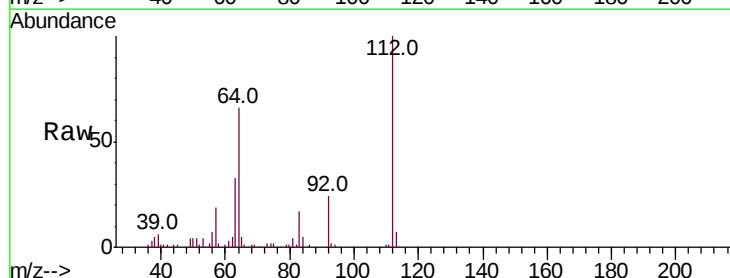
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



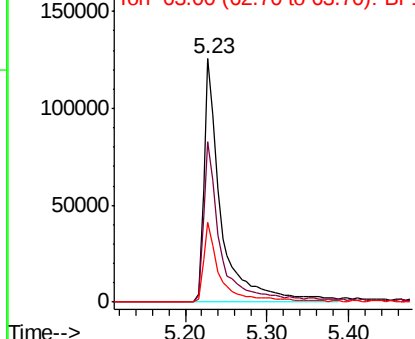
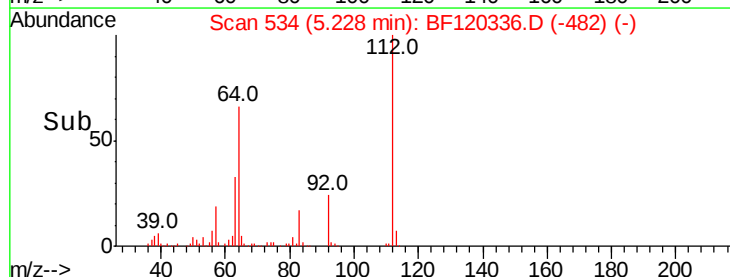
#5

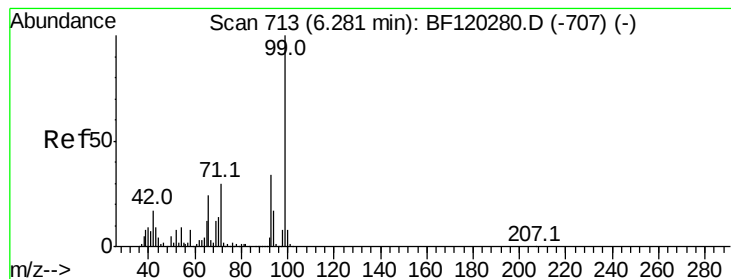
2-Fluorophenol
Concen: 14.211 ng
RT: 5.23 min Scan# 534
Delta R.T. 0.01 min
Lab File: BF120336.D
Acq: 15 May 2020 22:03

Tgt Ion:112 Resp: 187163
Ion Ratio Lower Upper
112 100
64 66.1 52.7 79.1
63 32.9 26.2 39.4



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: 17.144 ng

RT: 6.27 min Scan# 711

Delta R.T. -0.01 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

Instrument :

BNA_F

ClientSampleId :

OR-02-051420

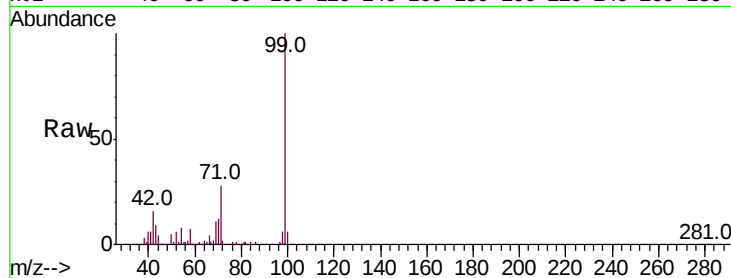
Tot Ion: 99 Resp: 285525

Ion Ratio Lower Upper

99 100

42 16.1 13.6 20.4

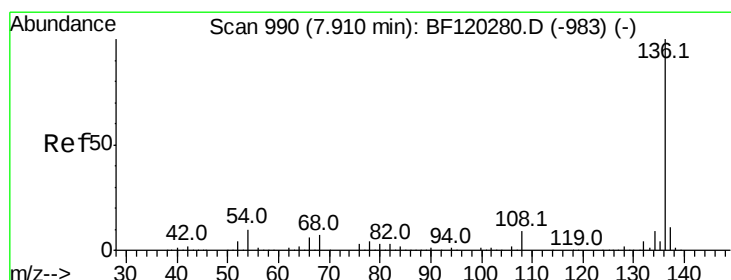
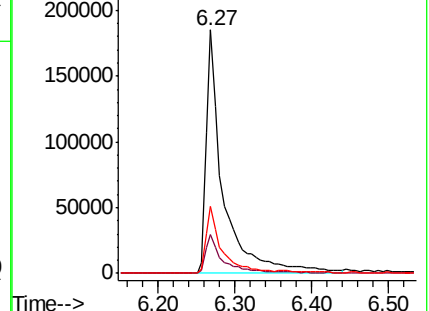
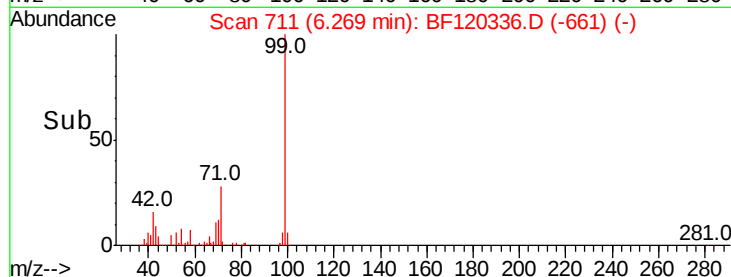
71 27.5 24.2 36.4



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: 7.90 min Scan# 988

Delta R.T. -0.01 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

Tgt Ion: 136 Resp: 988216

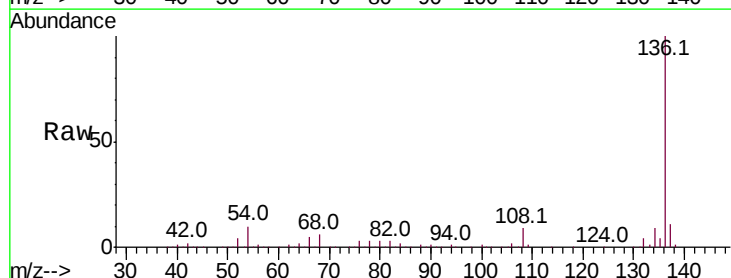
Ion Ratio Lower Upper

136 100

137 11.0 9.1 13.7

54 9.5 7.9 11.9

68 5.9 5.4 8.2

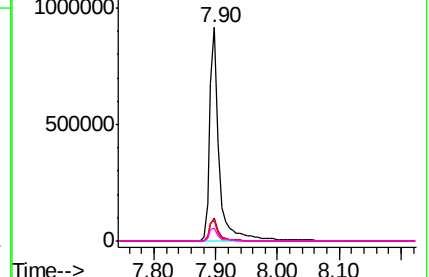
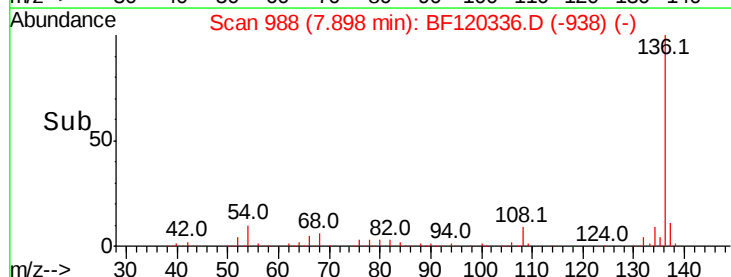


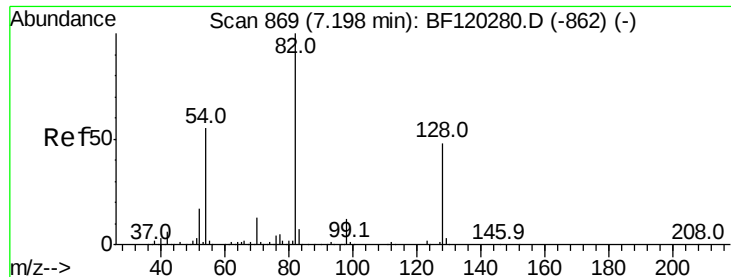
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

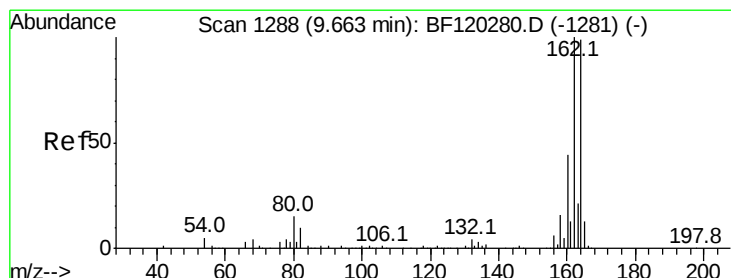
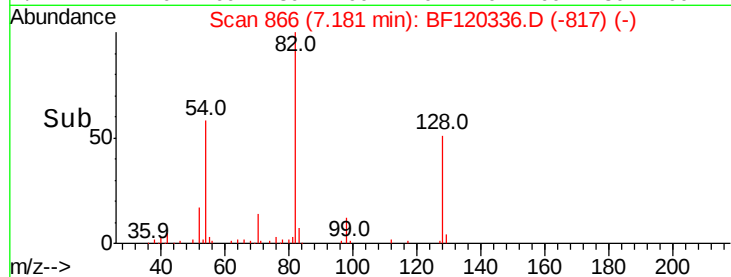
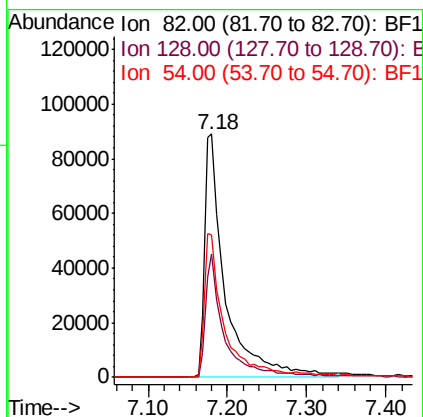
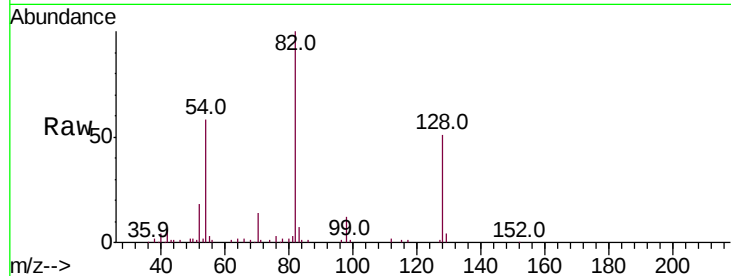




#23
 Nitrobenzene-d5
 Concen: 11.309 ng
 RT: 7.18 min Scan# 866
 Delta R.T. -0.01 min
 Lab File: BF120336.D
 Acq: 15 May 2020 22:03

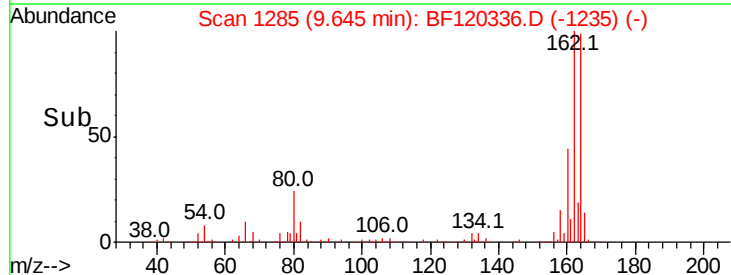
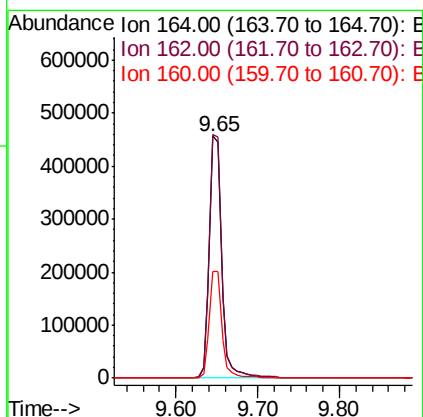
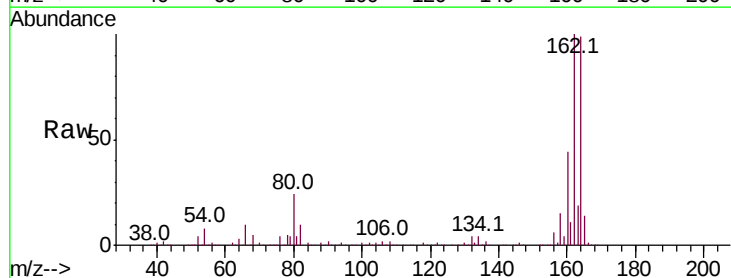
Instrument :
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 ClientSampleId :
 OR-02-051420

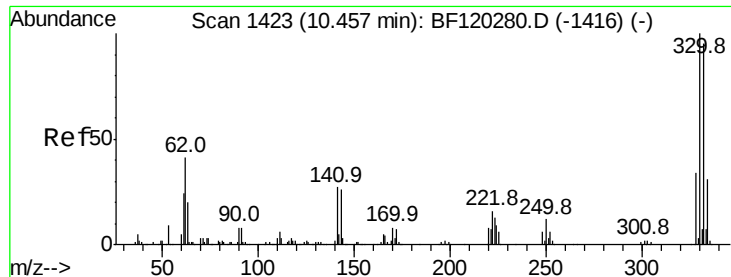
Tot Ion: 82 Resp: 163228
 Ion Ratio Lower Upper
 82 100
 128 50.9 38.3 57.5
 54 58.4 43.9 65.9



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.65 min Scan# 1285
 Delta R.T. -0.01 min
 Lab File: BF120336.D
 Acq: 15 May 2020 22:03

Tgt Ion: 164 Resp: 478224
 Ion Ratio Lower Upper
 164 100
 162 100.7 81.2 121.8
 160 44.0 35.8 53.6

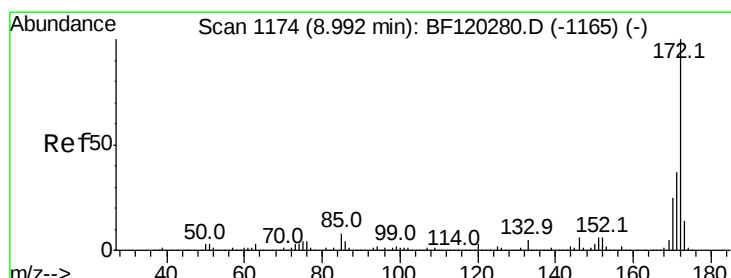
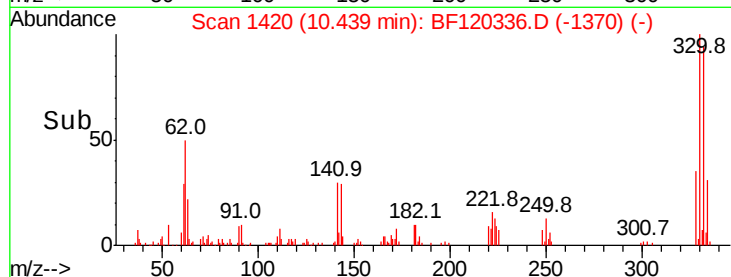
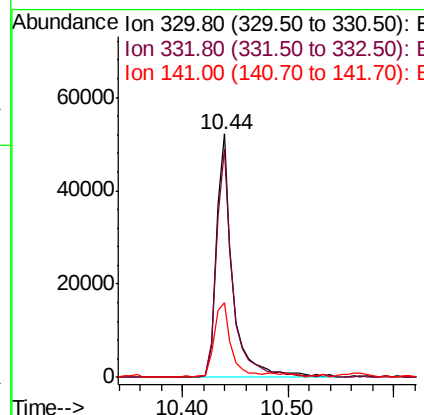
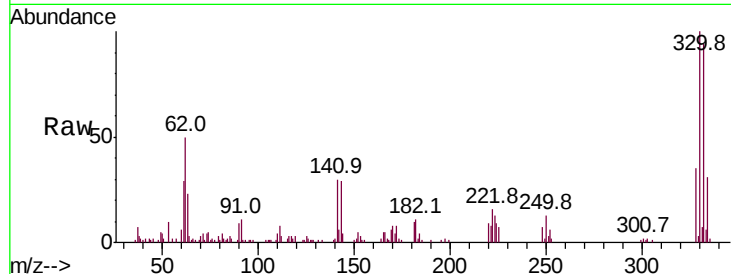




#42
 2,4,6-Tribromophenol
 Concen: 14.483 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF120336.D
 Acq: 15 May 2020 22:03

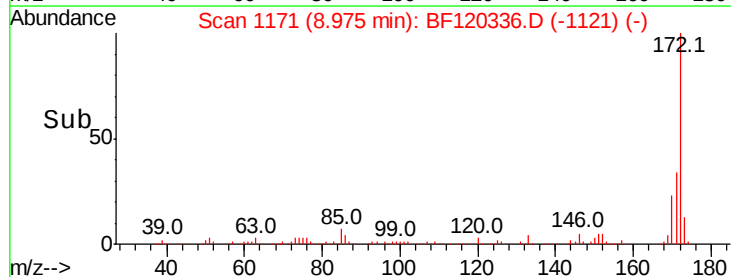
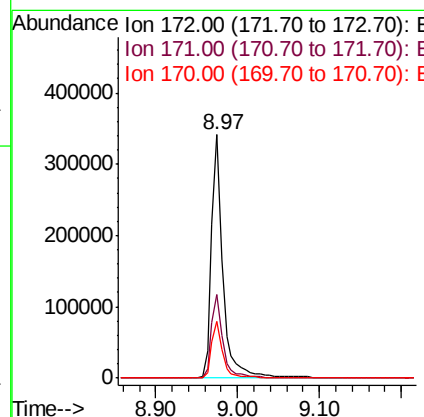
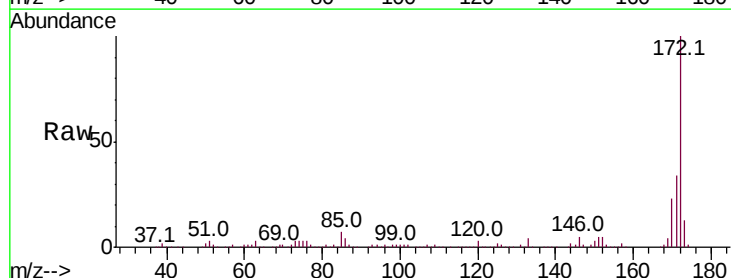
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-051420

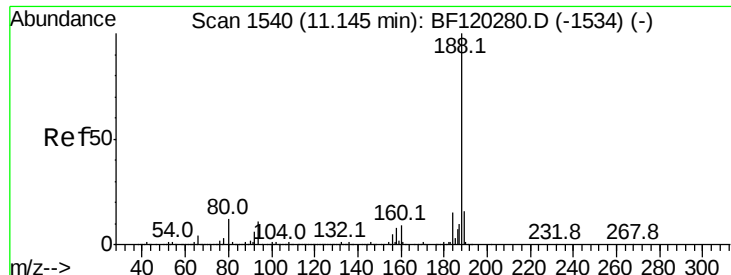
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.1	76.5	114.7
141	34.0	25.4	38.0



#45
 2-Fluorobiphenyl
 Concen: 14.420 ng
 RT: 8.97 min Scan# 1171
 Delta R.T. -0.01 min
 Lab File: BF120336.D
 Acq: 15 May 2020 22:03

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.3	29.7	44.5
170	23.5	19.9	29.9





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.13 min Scan# 1538

Delta R.T. -0.00 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

Instrument :

BNA_F

ClientSampleId :

OR-02-051420

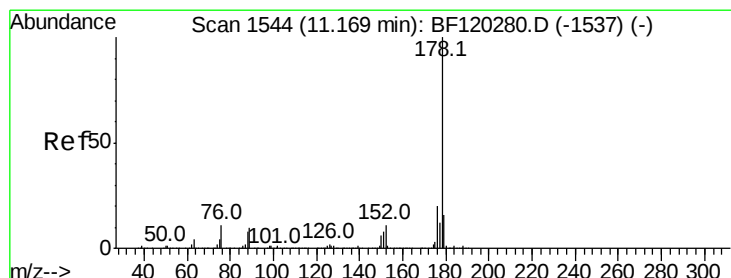
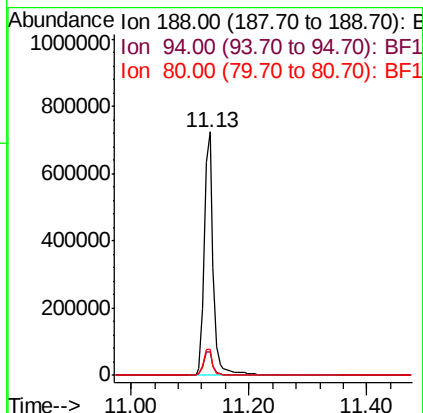
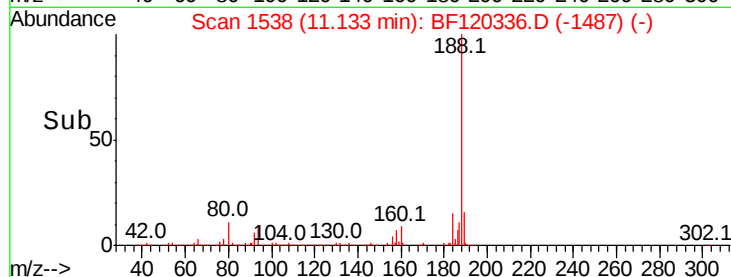
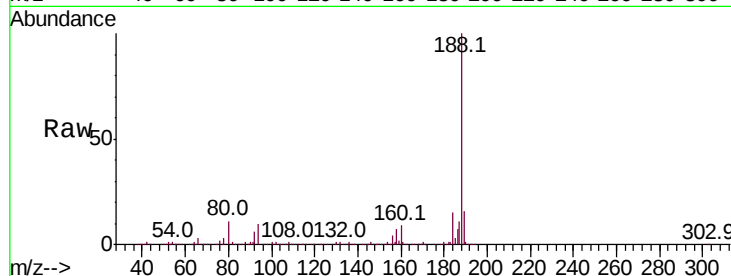
Tot Ion:188 Resp: 755593

Ion Ratio Lower Upper

188 100

94 9.8 8.6 13.0

80 10.6 9.2 13.8



#71

Phenanthrene

Concen: 8.958 ng

RT: 11.16 min Scan# 1542

Delta R.T. -0.01 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

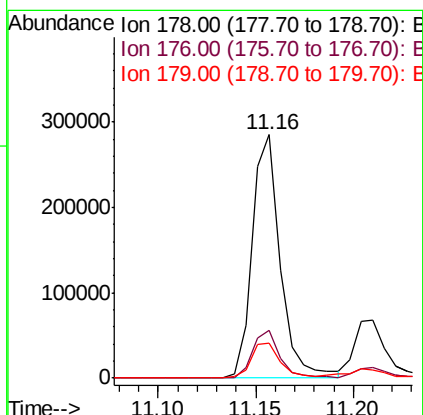
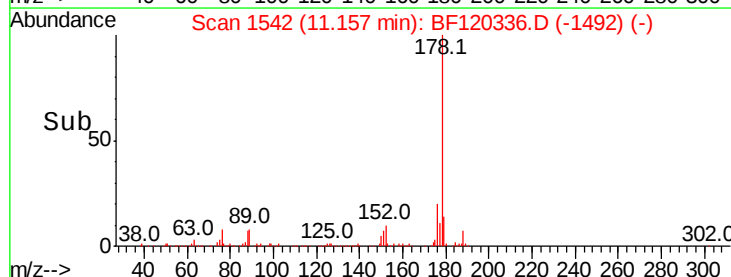
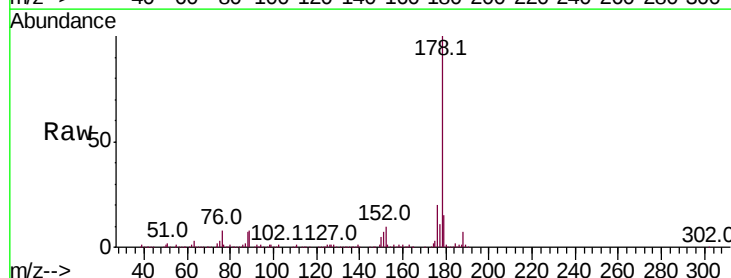
Tgt Ion:178 Resp: 284409

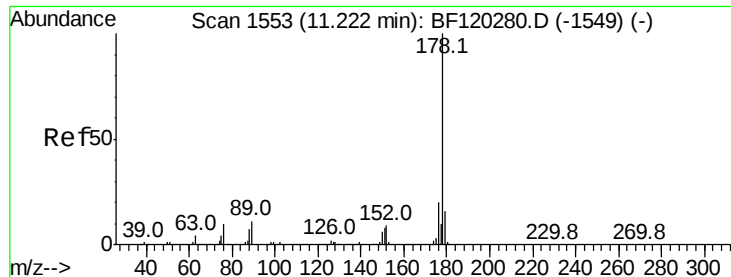
Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

179 14.5 12.8 19.2

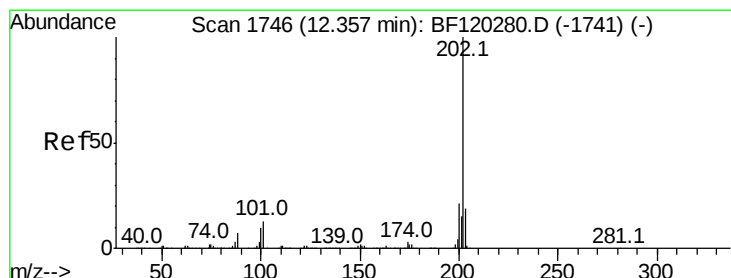
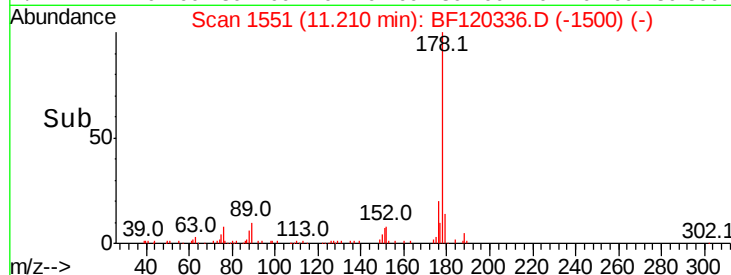
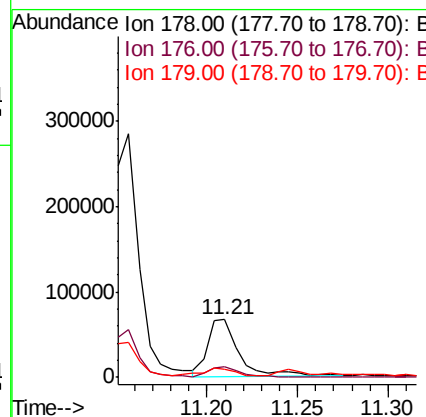
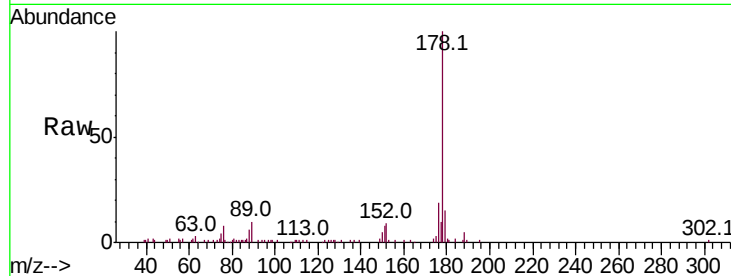




#72
 Anthracene
 Concen: 2.309 ng
 RT: 11.21 min Scan# 1551
 Delta R.T. -0.00 min
 Lab File: BF120336.D
 Acq: 15 May 2020 22:03

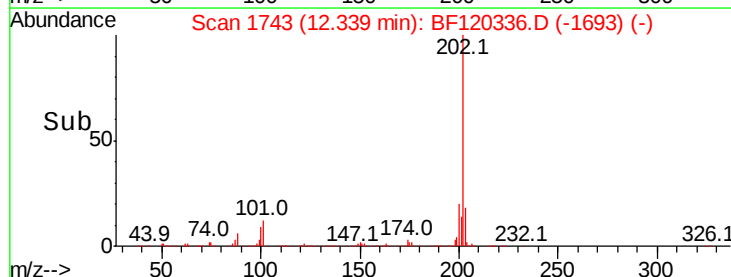
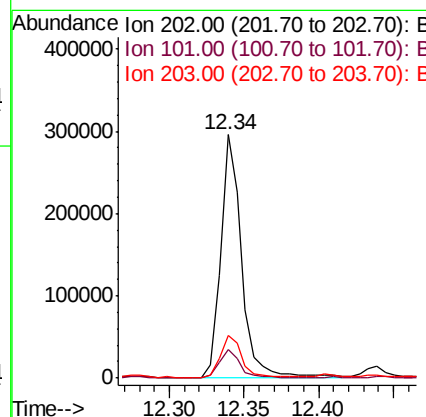
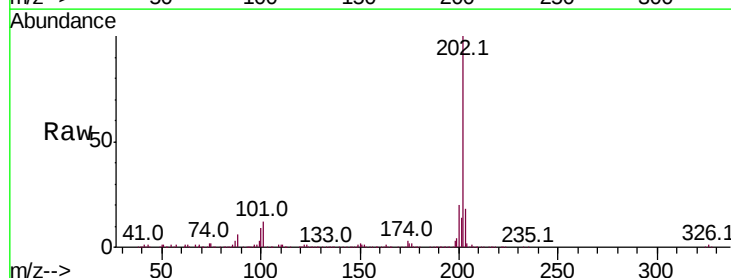
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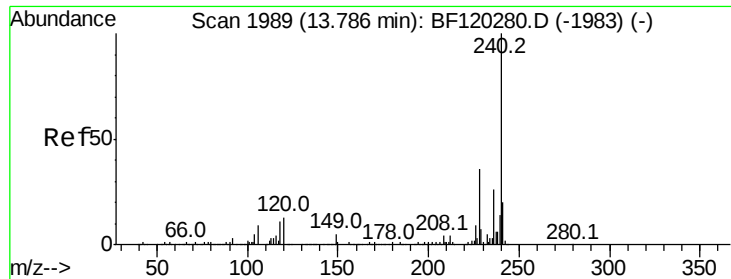
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	14.9	13.0	19.6



#75
 Fluoranthene
 Concen: 8.484 ng
 RT: 12.34 min Scan# 1743
 Delta R.T. -0.01 min
 Lab File: BF120336.D
 Acq: 15 May 2020 22:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	33.2
203	17.6	0.0	39.1

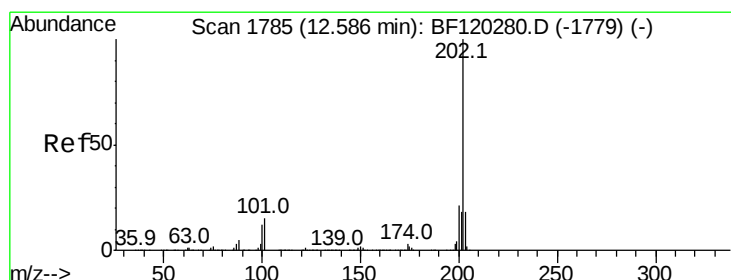
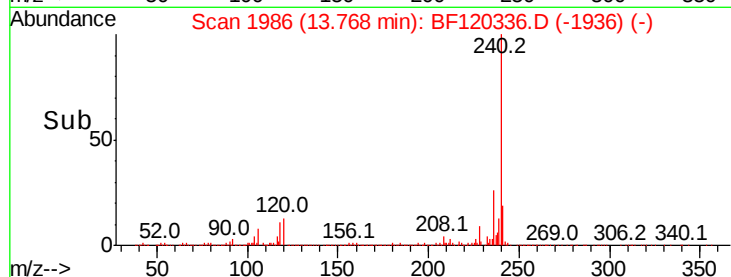
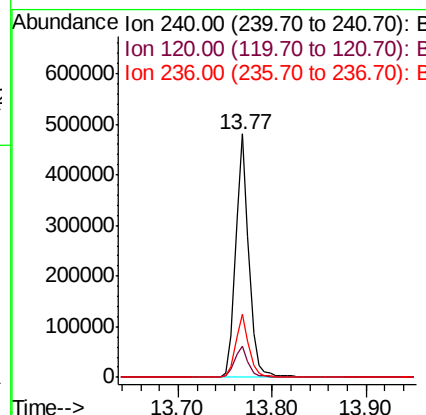
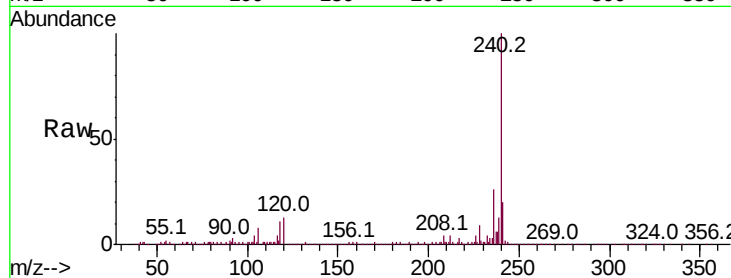




#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.77 min Scan# 1986
 Delta R.T. -0.01 min
 Lab File: BF120336.D
 Acq: 15 May 2020 22:03

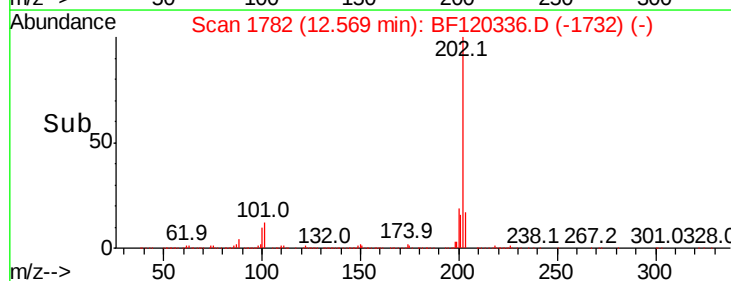
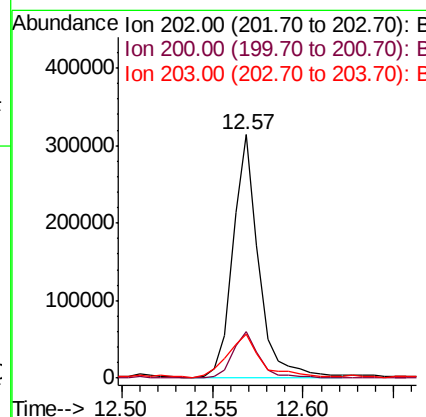
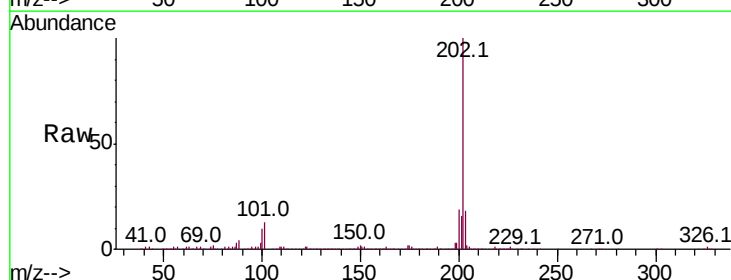
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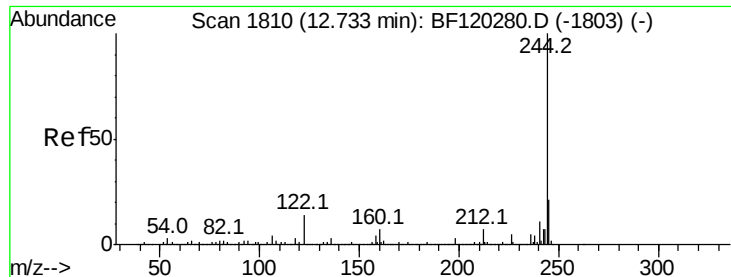
Tot Ion	Ratio	Lower	Upper
240	100		
120	13.0	10.4	15.6
236	25.8	21.0	31.6



#78
 Pyrene
 Concen: 9.313 ng
 RT: 12.57 min Scan# 1782
 Delta R.T. -0.01 min
 Lab File: BF120336.D
 Acq: 15 May 2020 22:03

Tgt Ion	Ratio	Lower	Upper
202	100		
200	18.9	16.6	25.0
203	17.9	14.6	22.0





#79

Terphenyl-d14

Concen: 12.263 ng

RT: 12.72 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

Instrument :

BNA_F

ClientSampleId :

OR-02-051420

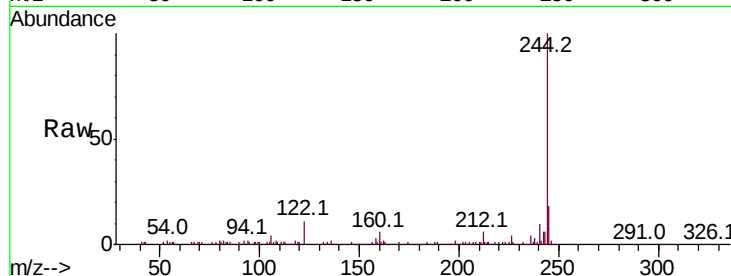
Tot Ion:244 Resp: 256948

Ion Ratio Lower Upper

244 100

212 5.9 5.8 8.6

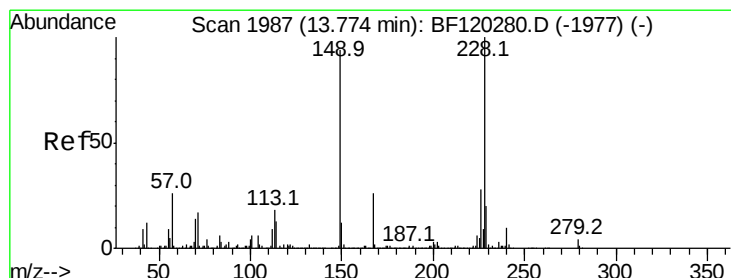
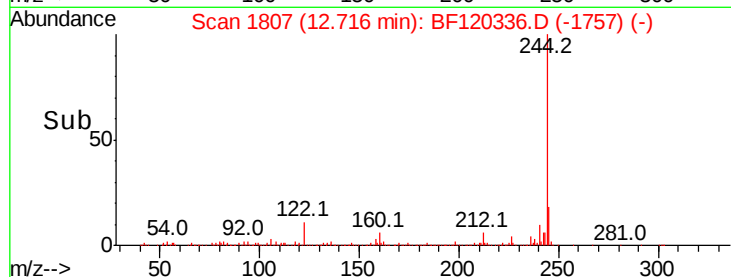
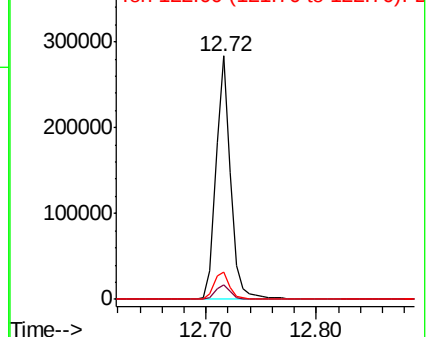
122 11.0 10.8 16.2



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: 6.058 ng

RT: 13.76 min Scan# 1984

Delta R.T. -0.01 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

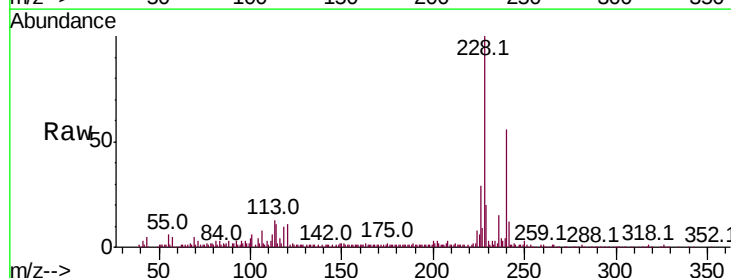
Tgt Ion:228 Resp: 147907

Ion Ratio Lower Upper

228 100

226 29.3 22.6 33.8

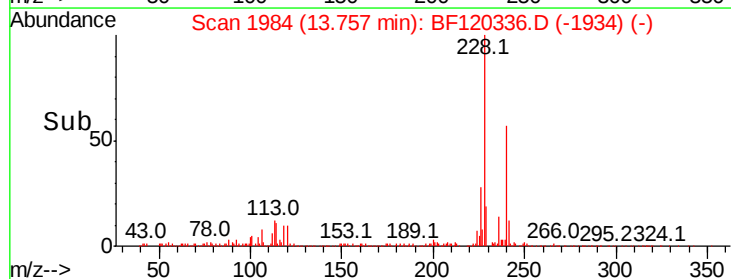
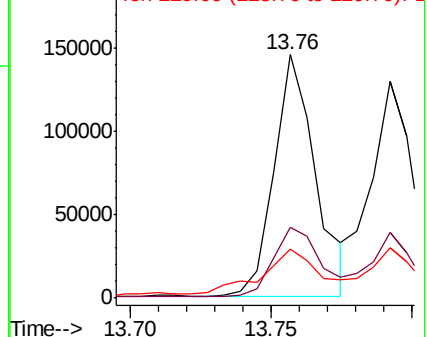
229 20.1 16.4 24.6

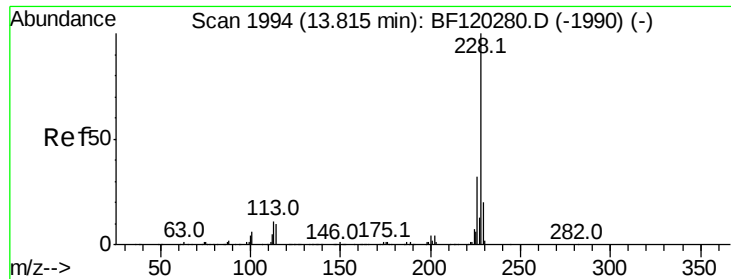


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 5.304 ng

RT: 13.79 min Scan# 1990

Delta R.T. -0.01 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

Instrument :

BNA_F

ClientSampleId :

OR-02-051420

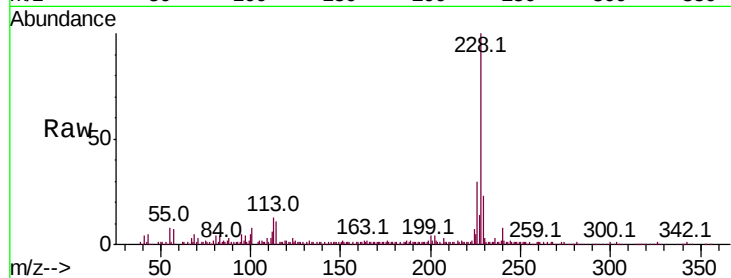
Tot Ion:228 Resp: 139059

Ion Ratio Lower Upper

228 100

226 30.4 25.0 37.6

229 23.4 16.2 24.4

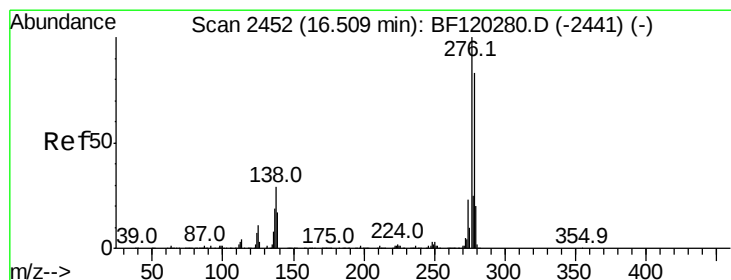
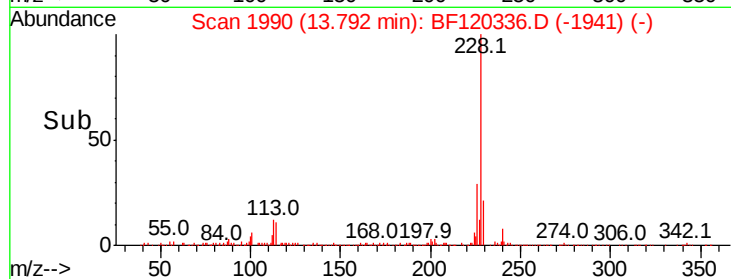
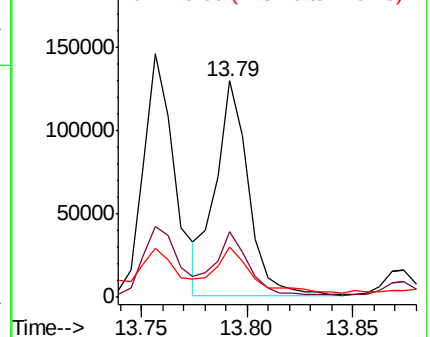


Abundance

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



#86

Indeno(1,2,3-cd)pyrene

Concen: 2.681 ng

RT: 16.49 min Scan# 2448

Delta R.T. -0.01 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

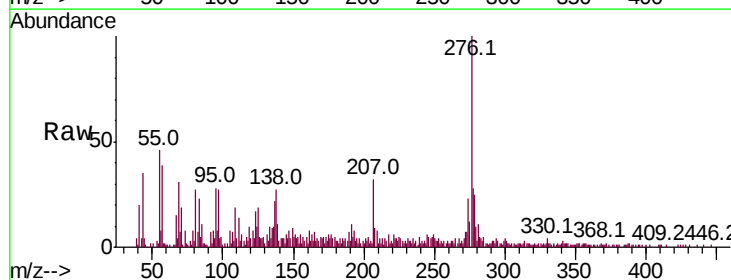
Tgt Ion:276 Resp: 63785

Ion Ratio Lower Upper

276 100

138 27.4 23.3 34.9

277 27.7 20.2 30.4

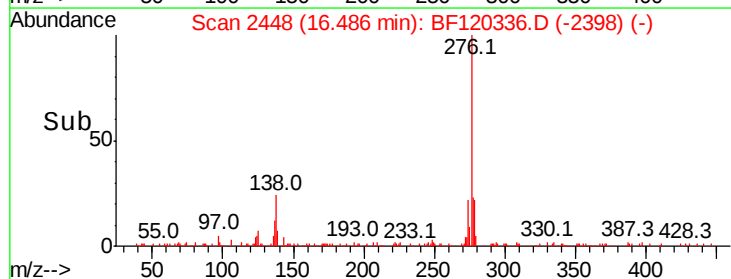
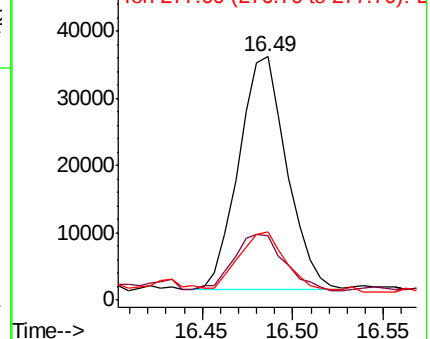


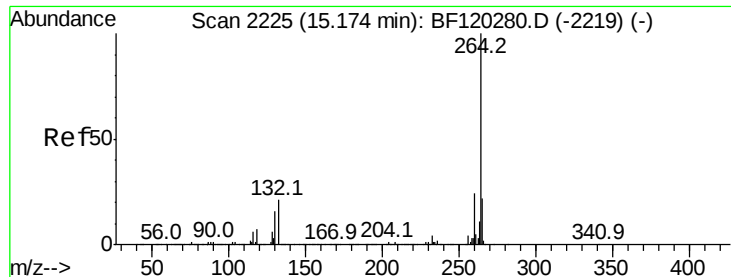
Abundance

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: 15.16 min Scan# 2223

Delta R.T. -0.00 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

Instrument :

BNA_F

ClientSampleId :

OR-02-051420

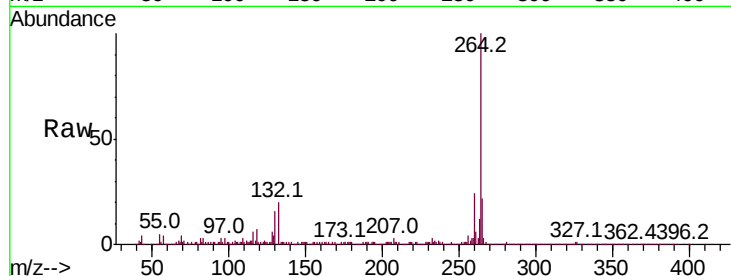
Tot Ion:264 Resp: 443907

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.6

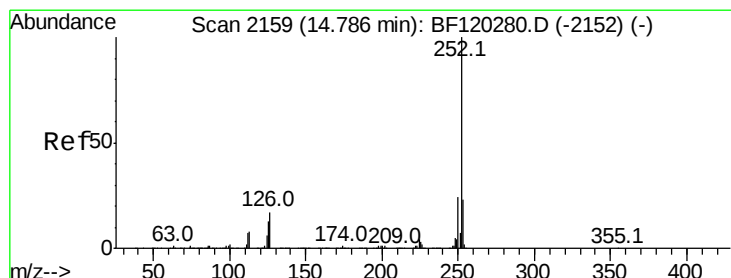
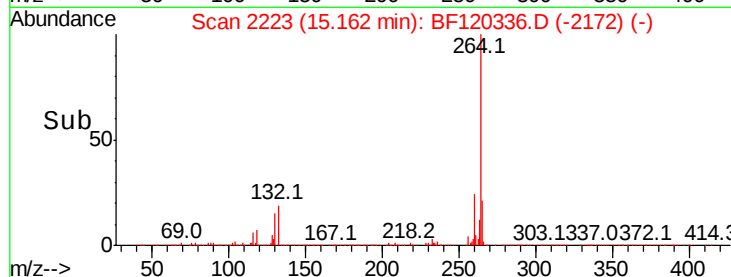
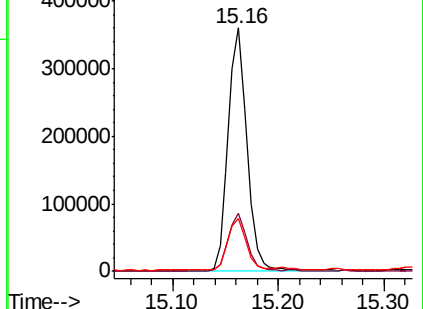
265 21.8 17.5 26.3



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: 5.594 ng m

RT: 14.77 min Scan# 2157

Delta R.T. -0.01 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

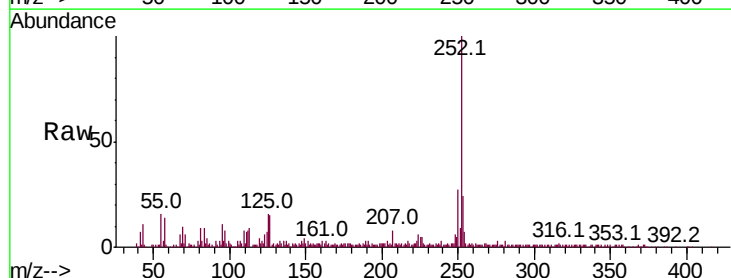
Tgt Ion:252 Resp: 135606

Ion Ratio Lower Upper

252 100

253 23.7 18.1 27.1

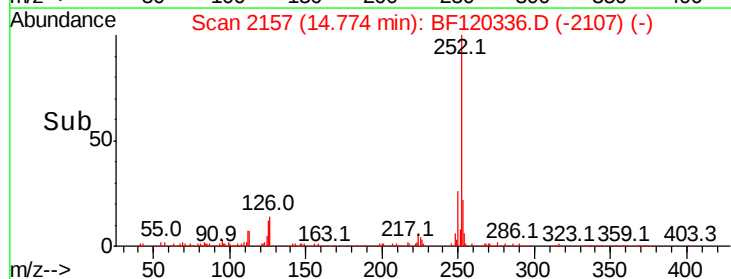
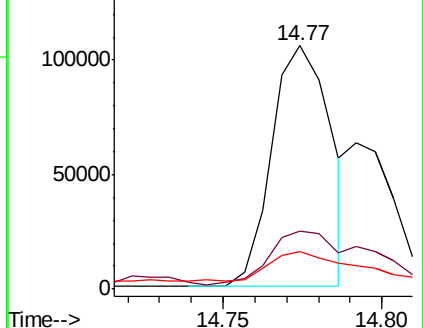
125 15.6 10.4 15.6

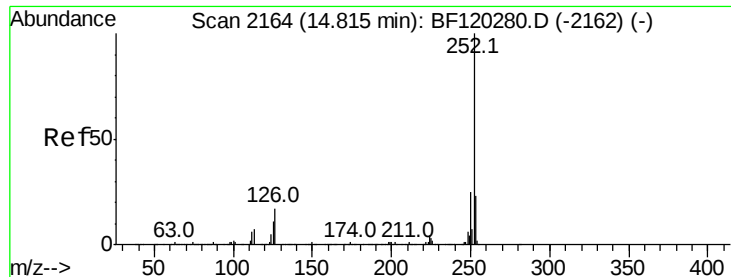


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 2.957 ng/mL

RT: 14.79 min Scan# 2160

Delta R.T. -0.01 min

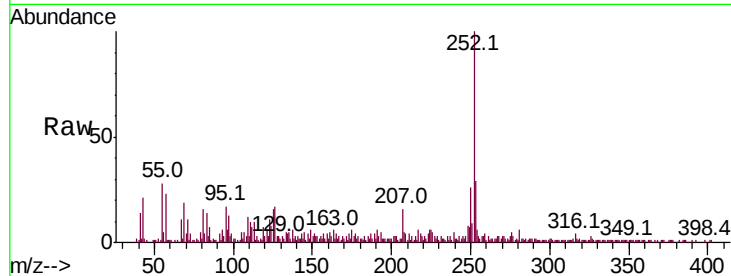
Lab File: BF120336.D

Acq: 15 May 2020 22:03

Instrument :
BNA_F
ClientSampleId :
OR-02-051420

Tot Ion:252 Resp: 62109

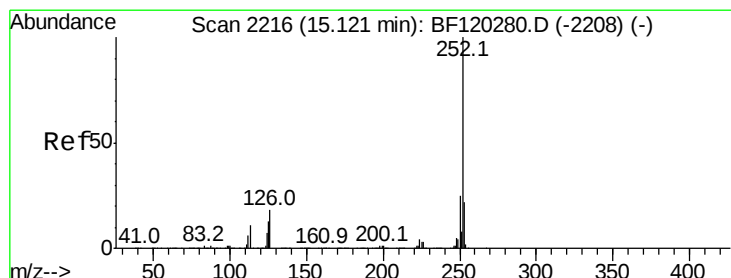
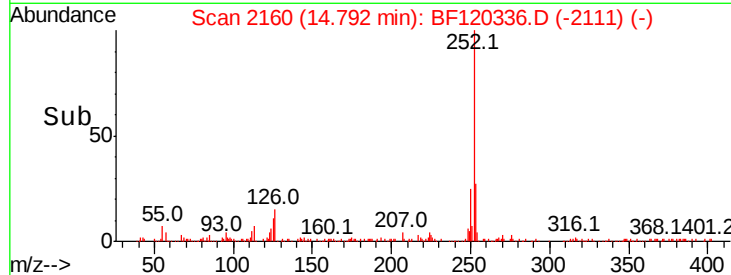
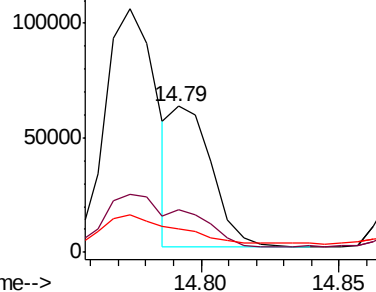
Ion	Ratio	Lower	Upper
252	100		
253	28.9	18.2	27.2#
125	16.4	9.9	14.9#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 5.319 ng/mL

RT: 15.10 min Scan# 2213

Delta R.T. -0.01 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

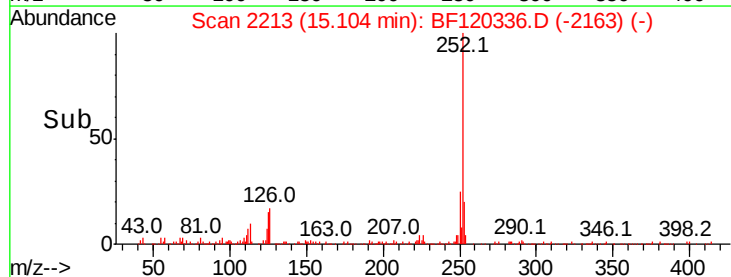
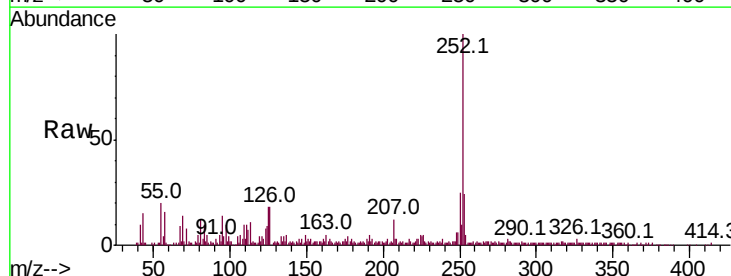
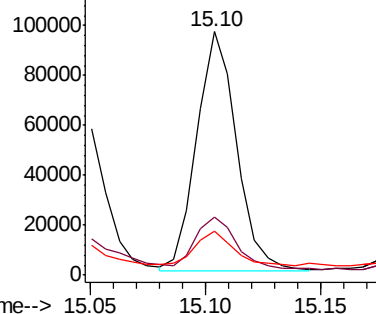
Tgt Ion:252 Resp: 115653

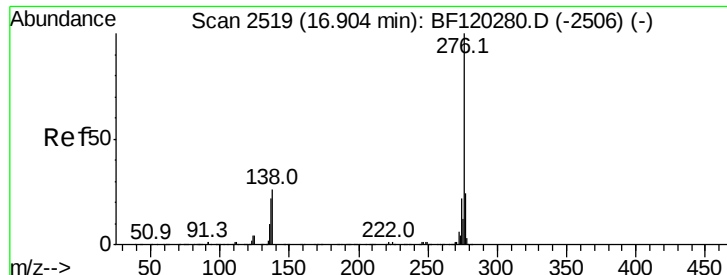
Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.6	26.4
125	18.0	10.6	16.0#

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Benzo(a,h,i)perylene

Concen: 3.838 ng

RT: 16.88 min Scan# 2515

Delta R.T. -0.01 min

Lab File: BF120336.D

Acq: 15 May 2020 22:03

Instrument :

BNA_F

ClientSampleId :

OR-02-051420

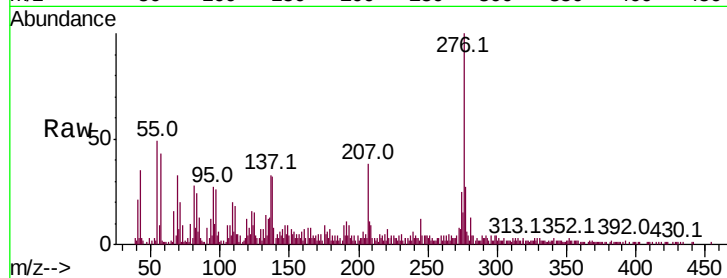
Tot Ion:276 Resp: 74542

Ion Ratio Lower Upper

276 100

277 27.3 19.1 28.7

138 31.6 20.8 31.2#



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

