

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080119\
 Data File : BF115929.D
 Acq On : 2 Aug 2019 1:28
 Operator : HP/JU
 Sample : K4049-03DL 4X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-3DL

Manual Integrations
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Quant Time: Aug 02 08:03:14 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	126882	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	502811	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	250972	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	363321	20.00	ng	0.00
76) Chrysene-d12	14.02	240	284162	20.00	ng	0.00
87) Perylene-d12	15.49	264	297858	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	172797	22.80	ng	0.00
7) Phenol-d6	6.48	99	237713	24.86	ng	0.00
23) Nitrobenzene-d5	7.41	82	143196	16.44	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	45707	18.78	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	240220	17.93	ng	0.00
79) Terphenyl-d14	12.96	244	166908	12.38	ng	0.00
Target Compounds						
52) Acenaphthene	9.92	154	57174	4.332	ng	99
55) Dibenzofuran	10.10	168	46588	2.427	ng	98
58) Fluorene	10.44	166	61877	4.190	ng	98
71) Phenanthrene	11.40	178	1025454	55.210	ng	99
72) Anthracene	11.46	178	196830	10.471	ng	99
73) Carbazole	11.61	167	61464	3.604	ng	99
75) Fluoranthene	12.60	202	999145	51.383	ng	99
78) Pyrene	12.83	202	1061768	49.568	ng	100
81) Benzo(a)anthracene	14.01	228	513779	28.288	ng	99
83) Chrysene	14.04	228	472140	26.776	ng	98
84) Bis(2-ethylhexyl)phthalate	13.99	149	254031	21.574	ng	99
86) Indeno(1,2,3-cd)pyrene	16.97	276	174002	11.749	ng	96
88) Benzo(b)fluoranthene	15.07	252	494808m	28.730	ng	
89) Benzo(k)fluoranthene	15.09	252	186762m	11.133	ng	
90) Benzo(a)pyrene	15.43	252	365713	23.754	ng	98
91) Dibenzo(a,h)anthracene	16.97	278	44134m	3.312	ng	
92) Benzo(a,h,i)perylene	17.42	276	170932	13.060	ng	97

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



#1

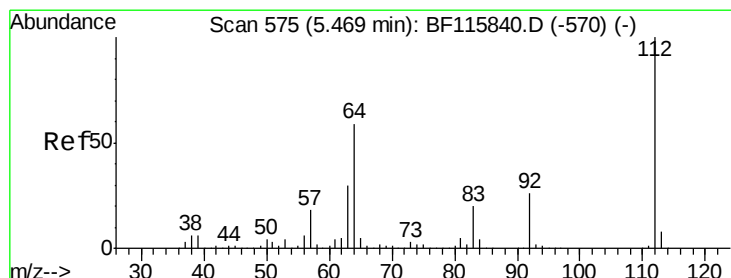
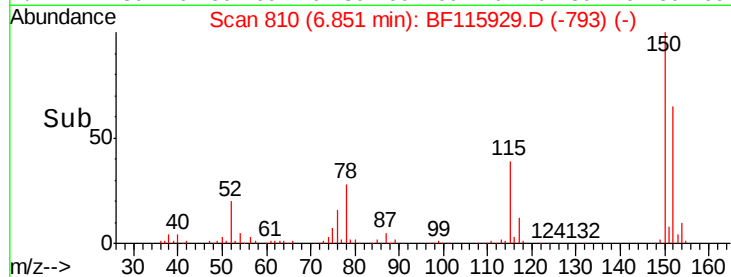
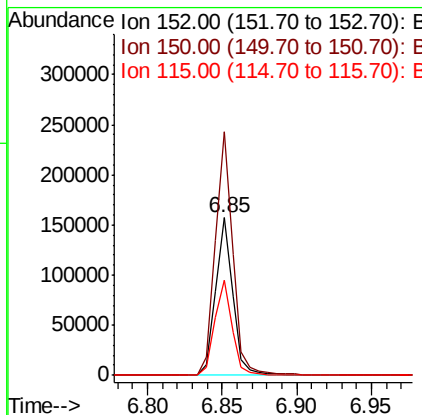
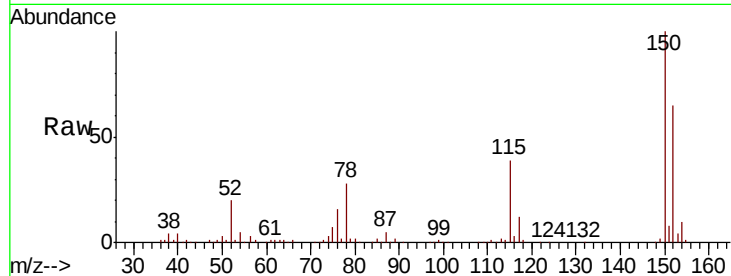
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

Instrument :
BNA_F
ClientSampleId :
SP-3DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	127.4	191.0
115	60.3	51.8	77.8

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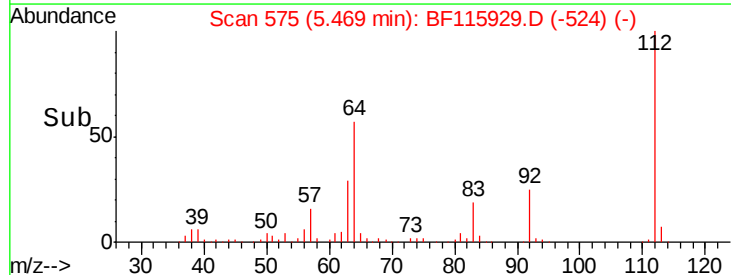
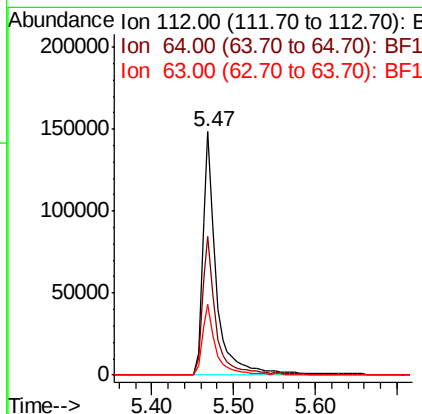
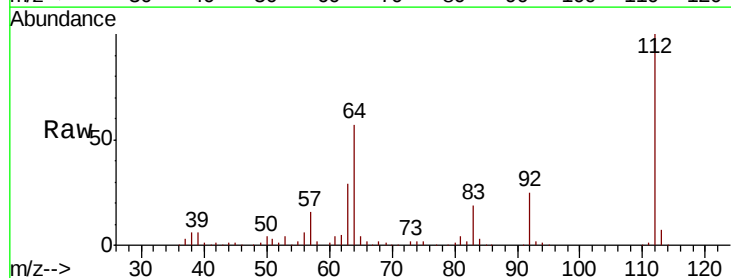
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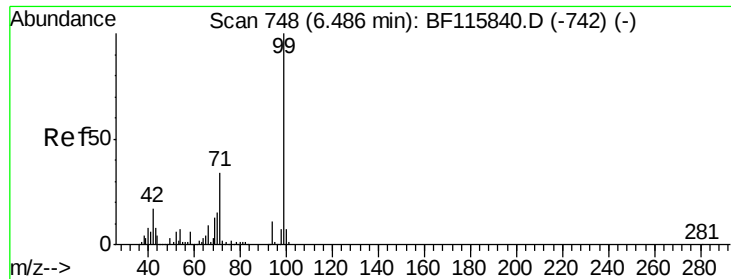


#5

2-Fluorophenol
Concen: 22.799 ng
RT: 5.47 min Scan# 575
Delta R.T. -0.00 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.9	46.8	70.2
63	29.2	24.2	36.2





#7

Phenol-d6

Concen: 24.859 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF115929.D

Acq: 2 Aug 2019 1:28

Instrument :

BNA_F

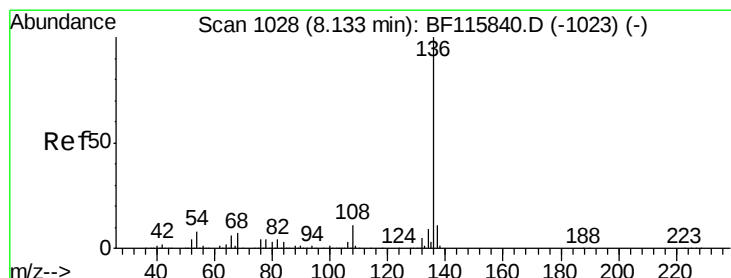
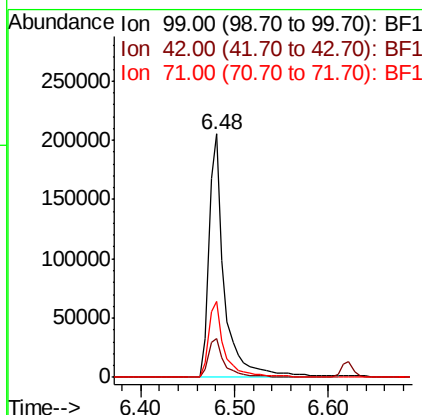
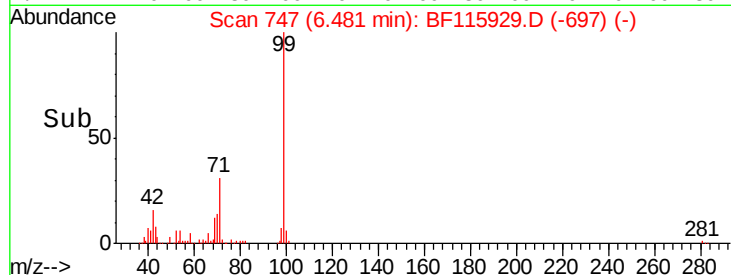
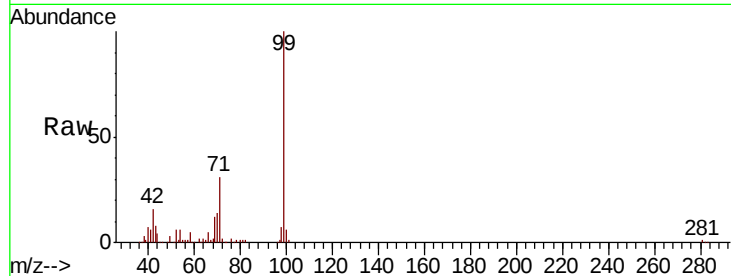
ClientSampled :

SP-3DL

Tot Ion:	99	Resp:	237713
Ion Ratio	Lower	Upper	
99	100		
42	16.0	13.8	20.6
71	31.1	27.1	40.7

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#21

Naphthalene-d8

Concen: 20.000 ng

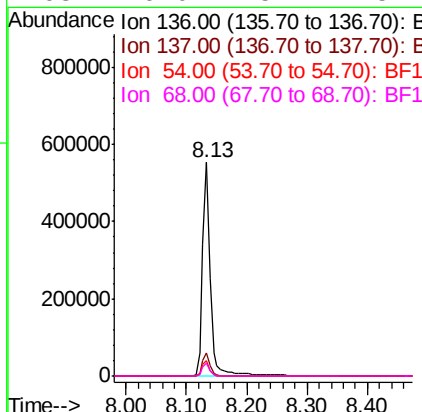
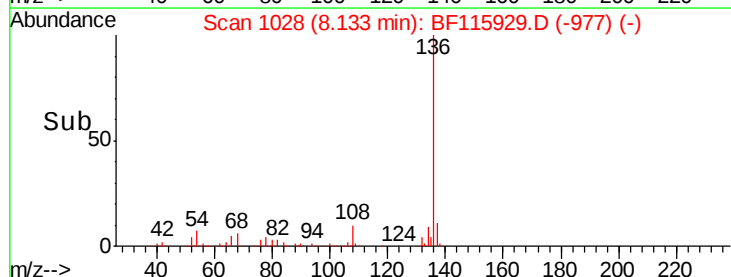
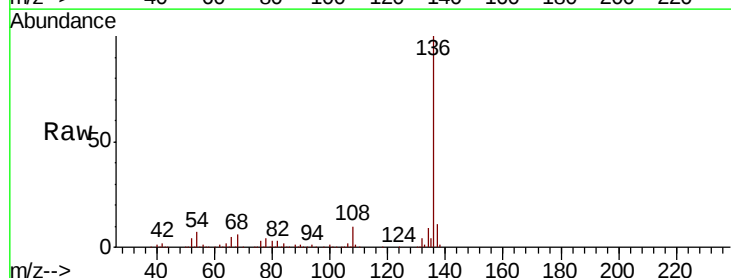
RT: 8.13 min Scan# 1028

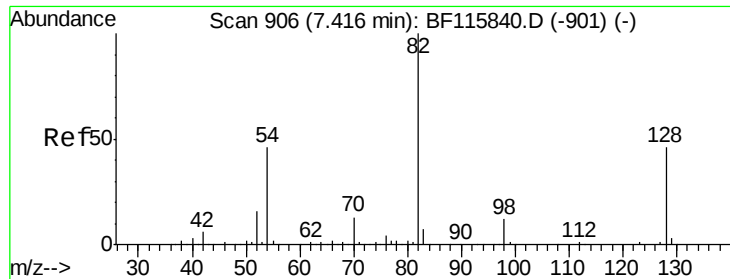
Delta R.T. -0.00 min

Lab File: BF115929.D

Acq: 2 Aug 2019 1:28

Tgt Ion:	136	Resp:	502811
Ion Ratio	Lower	Upper	
136	100		
137	11.0	9.1	13.7
54	6.9	6.1	9.1
68	6.0	5.4	8.2





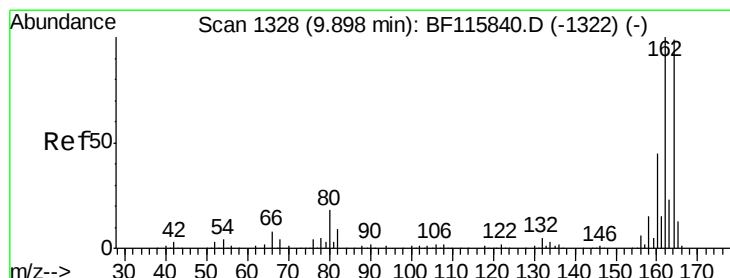
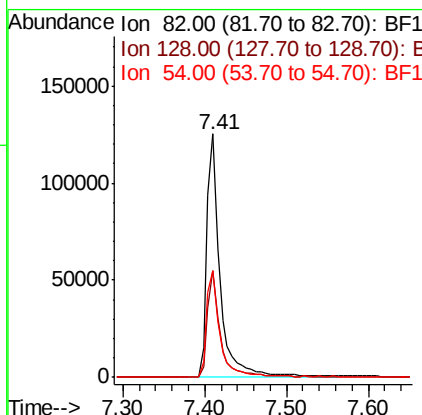
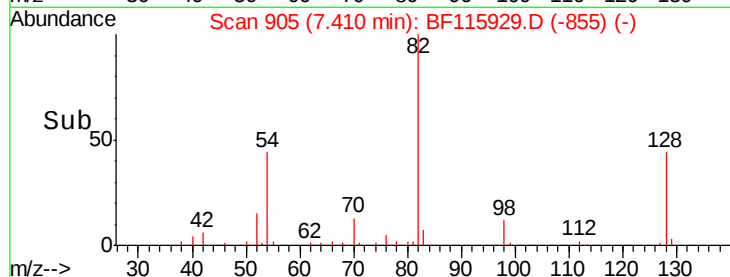
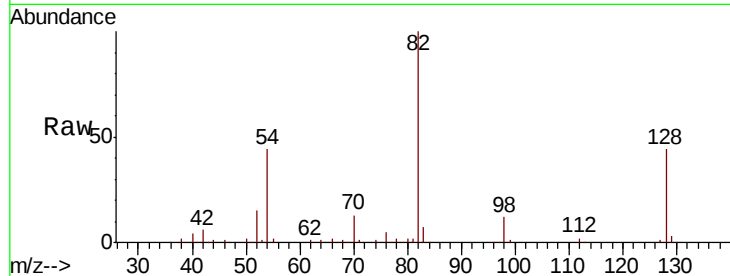
#23
 Nitrobenzene-d5
 Concen: 16.439 ng
 RT: 7.41 min Scan# 905
 Delta R.T. -0.01 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Instrument :
 BNA_F
 ClientSampleId :
 SP-3DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.9	36.6	55.0
54	44.1	36.6	55.0

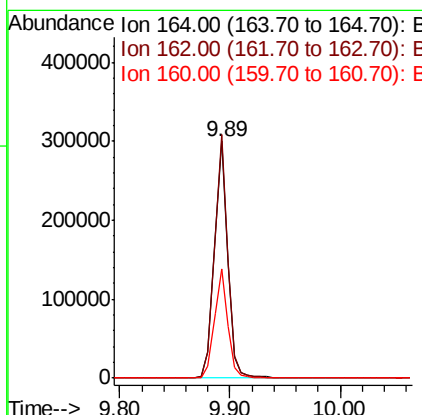
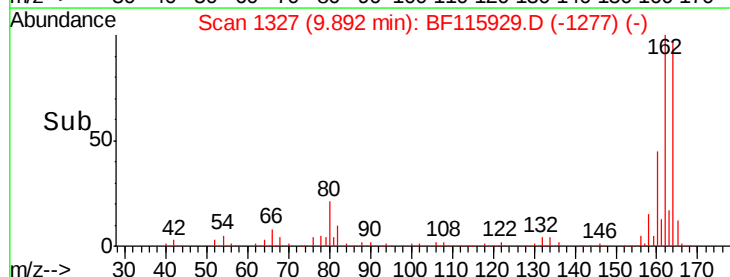
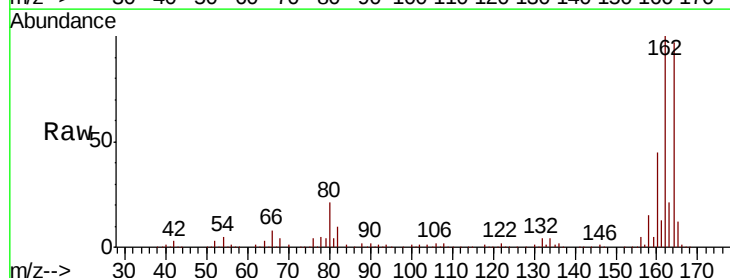
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#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. -0.01 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	80.8	121.2
160	46.1	36.2	54.4





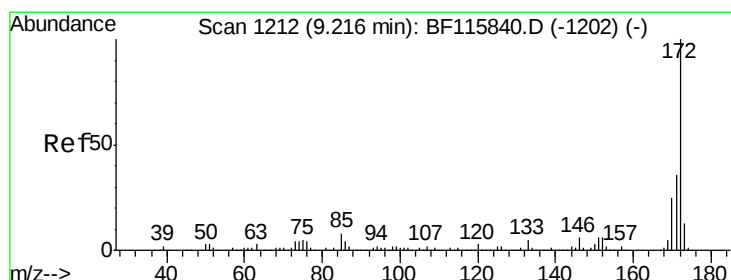
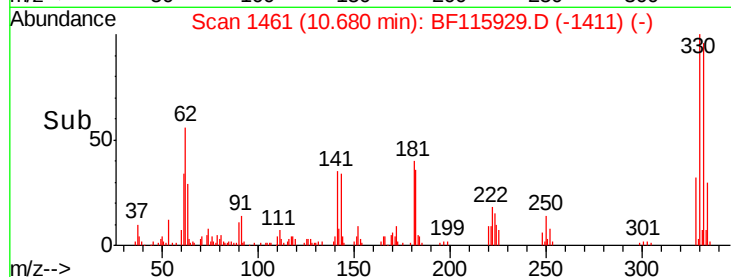
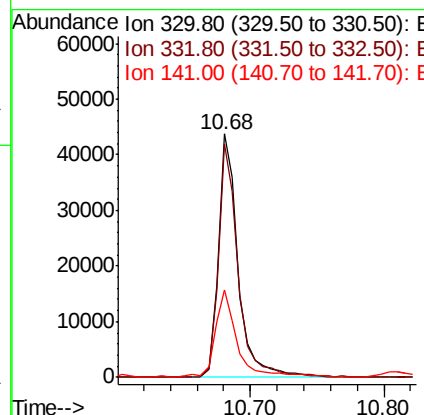
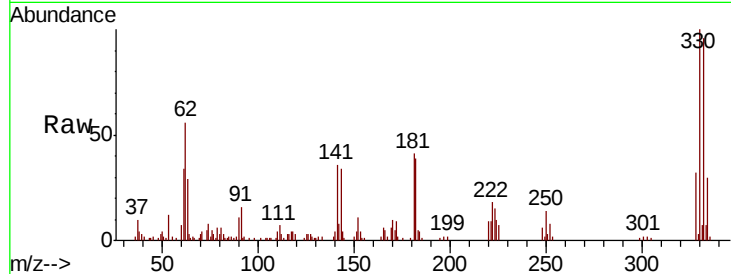
#42
 2,4,6-Tribromophenol
 Concen: 18.784 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Instrument :
 BNA_F
 ClientSampled :
 SP-3DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.7	116.5
141	39.8	28.1	42.1

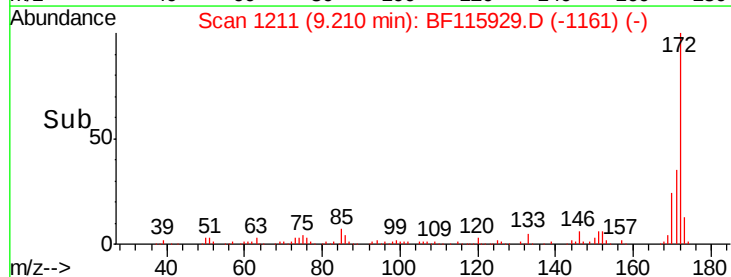
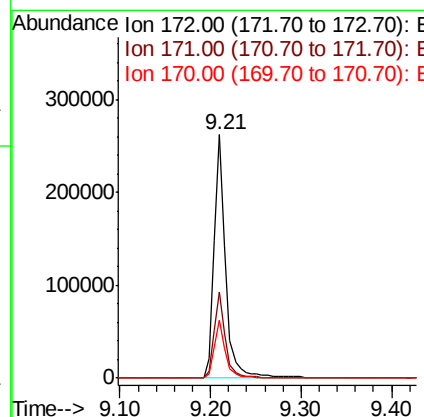
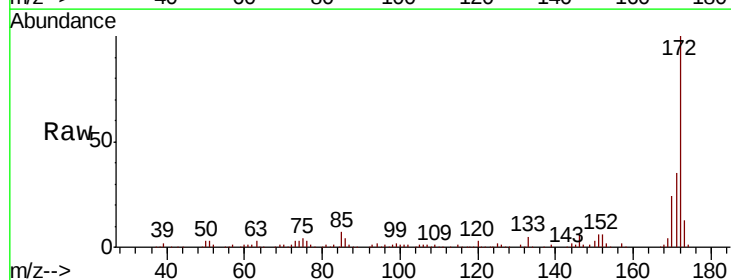
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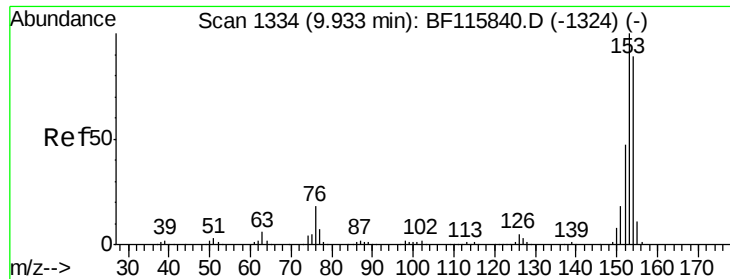
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#45
 2-Fluorobiphenyl
 Concen: 17.928 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.1	43.7
170	23.7	20.1	30.1





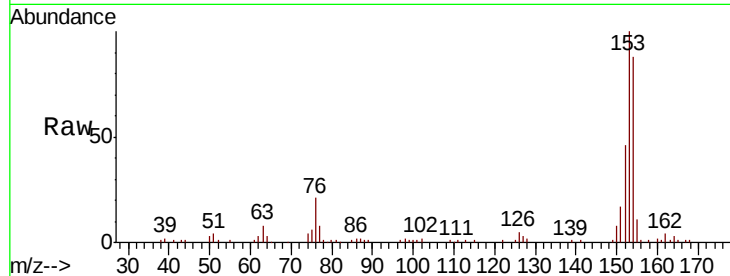
#52
Acenaphthene
Concen: 4.332 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

Instrument :
BNA_F
ClientSampled :
SP-3DL

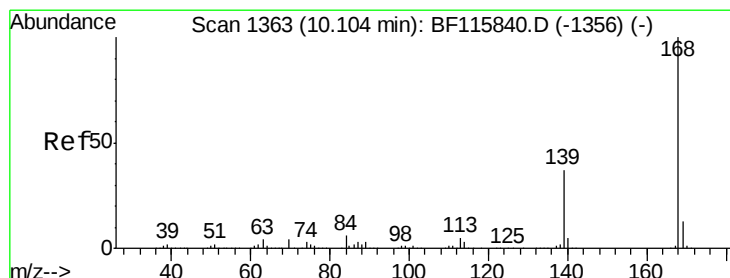
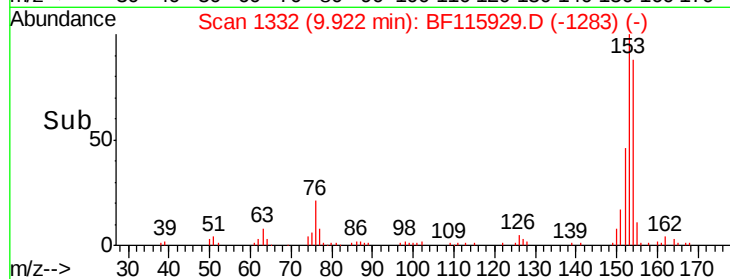
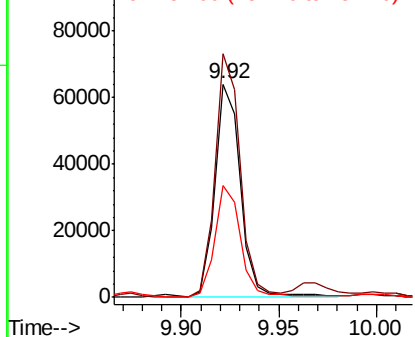
Tot Ion	Ratio	Lower	Upper
154	100		
153	114.2	90.1	135.1
152	52.6	42.6	63.8

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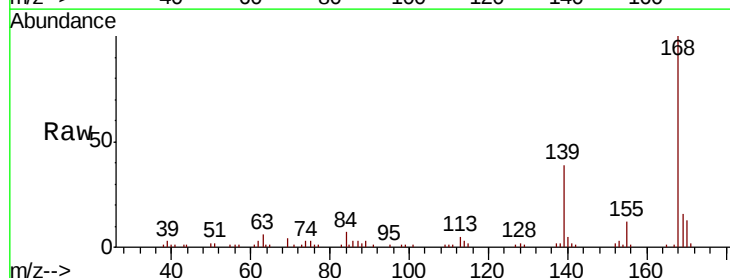


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

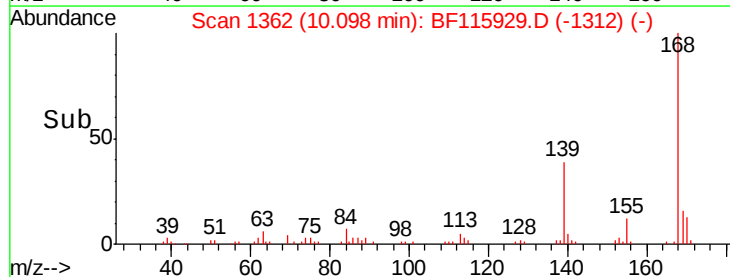
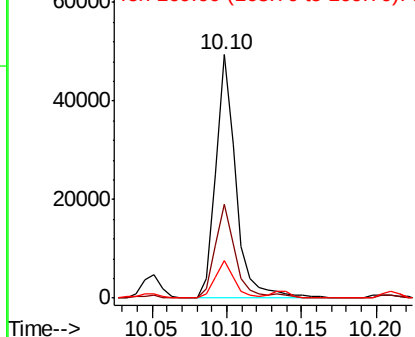


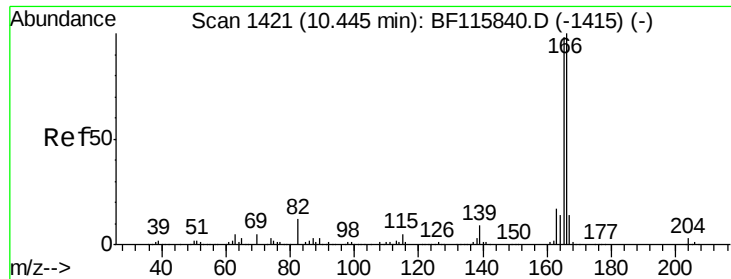
#55
Dibenzofuran
Concen: 2.427 ng
RT: 10.10 min Scan# 1362
Delta R.T. -0.01 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.6	30.2	45.2
169	15.6	10.8	16.2



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





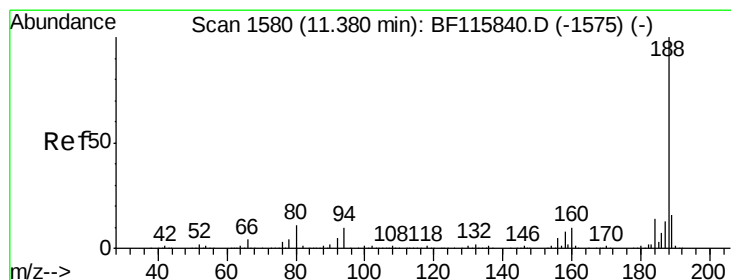
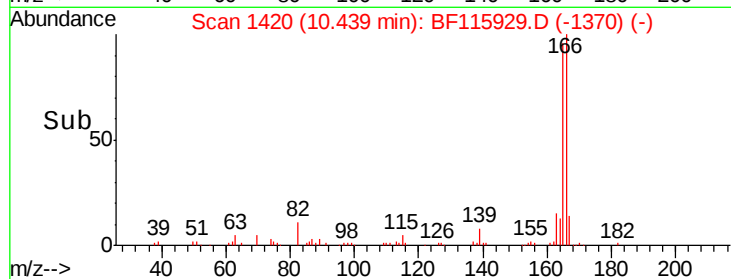
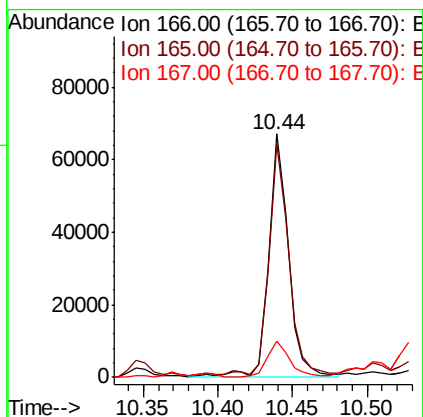
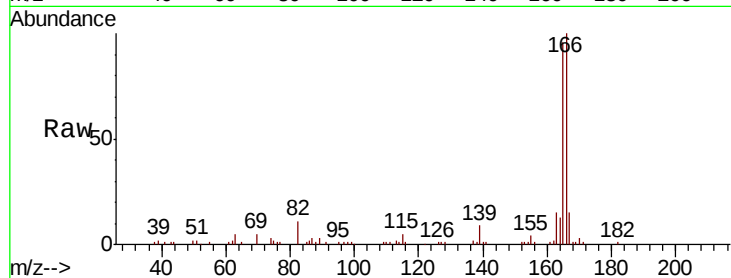
#58
 Fluorene
 Concen: 4.190 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Instrument :
 BNA_F
 ClientSampleId :
 SP-3DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.1	78.6	118.0
167	15.1	10.9	16.3

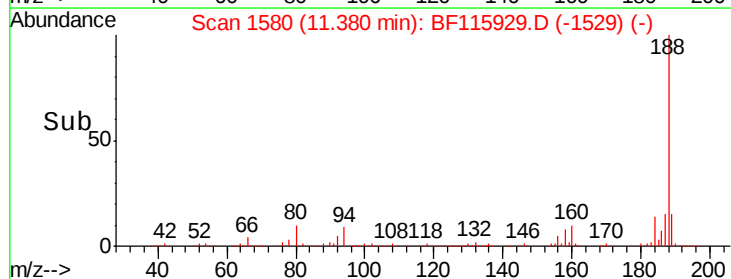
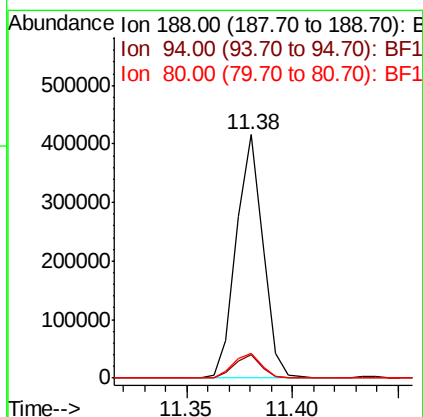
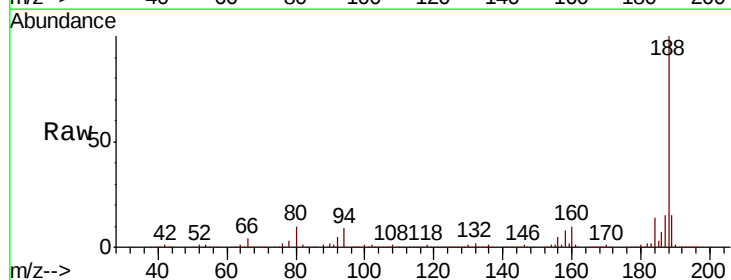
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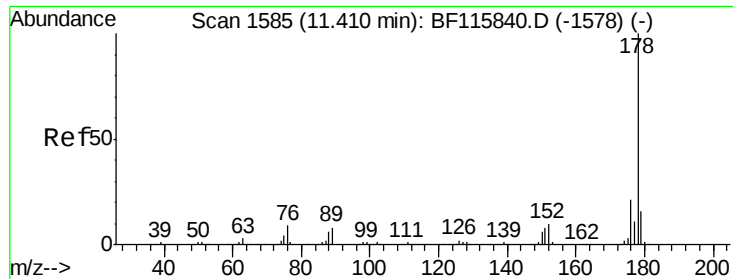
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.0	12.0
80	10.3	8.6	12.8





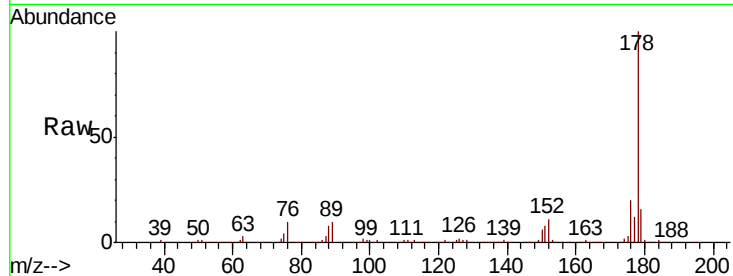
#71
Phenanthrene
Concen: 55.210 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

Instrument :
BNA_F
ClientSampleID :
SP-3DL

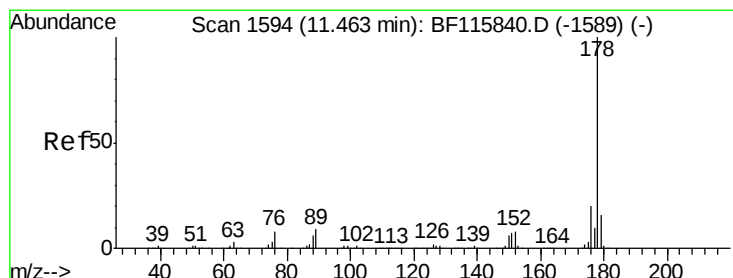
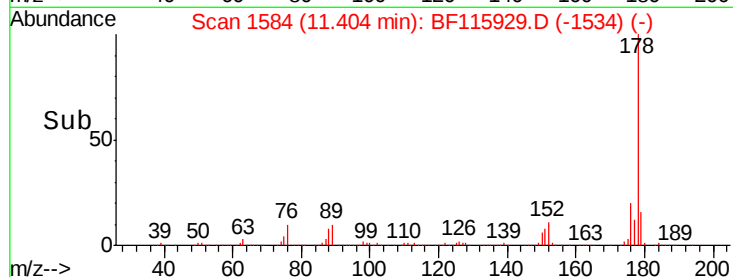
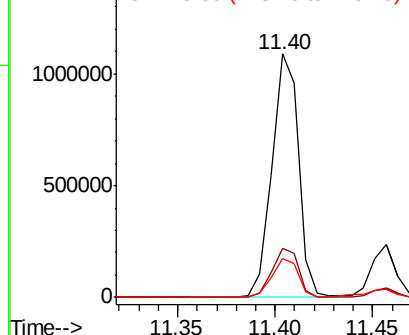
Tot Ion	Ion	Ratio	Lower	Upper
178	100			
176	20.4	16.5	24.7	
179	16.2	12.6	18.8	

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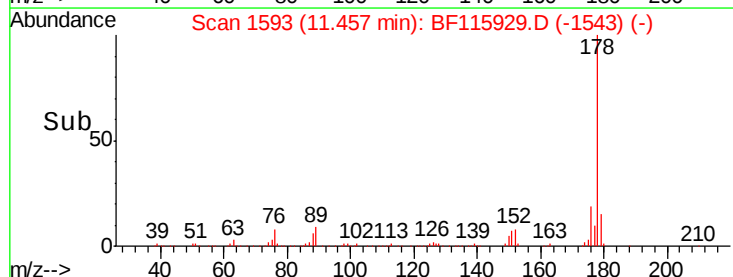
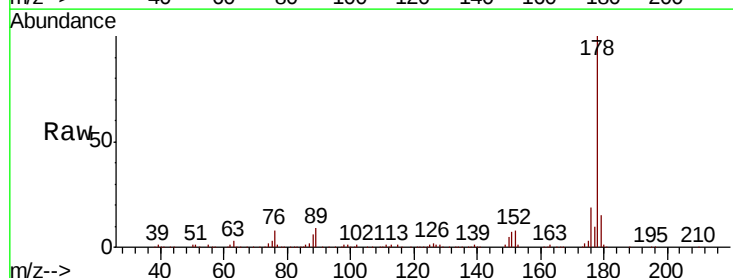
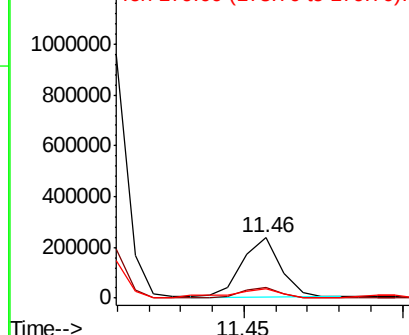
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

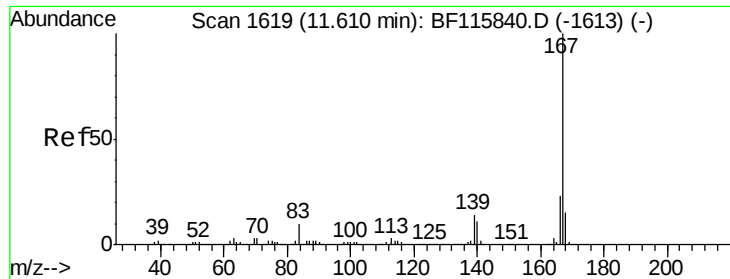


#72
Anthracene
Concen: 10.471 ng
RT: 11.46 min Scan# 1593
Delta R.T. -0.01 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

Tgt Ion	Ion	Ratio	Lower	Upper
178	100			
176	18.6	15.7	23.5	
179	15.3	12.4	18.6	

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





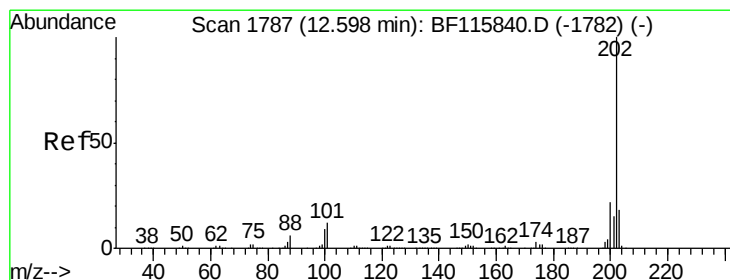
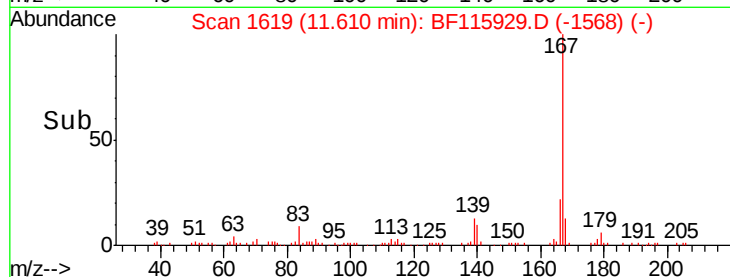
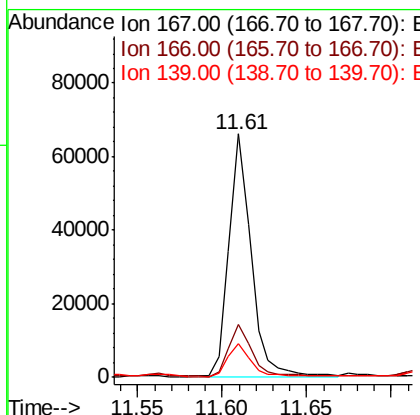
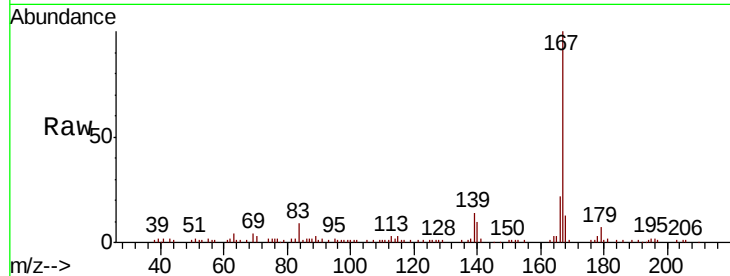
#73
 Carbazole
 Concen: 3.604 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. -0.00 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Instrument :
 BNA_F
 ClientSampleId :
 SP-3DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	18.0	27.0
139	13.8	11.4	17.2

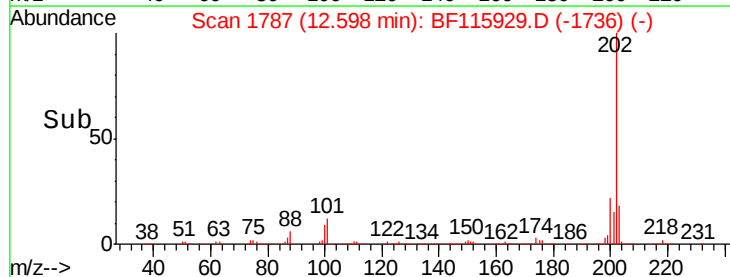
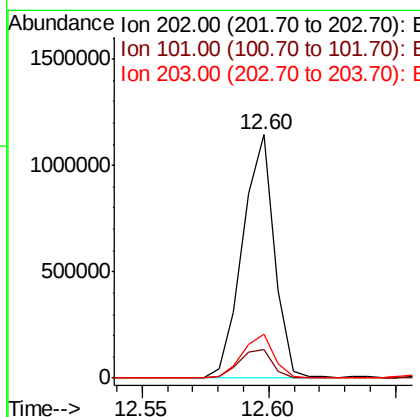
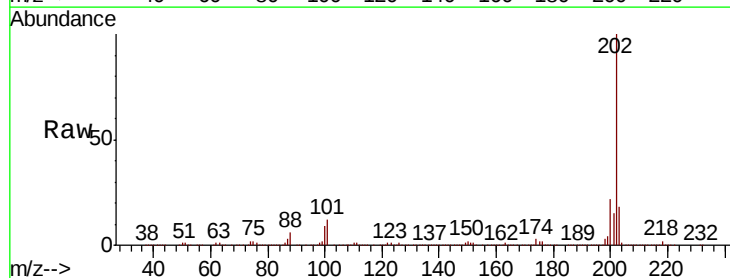
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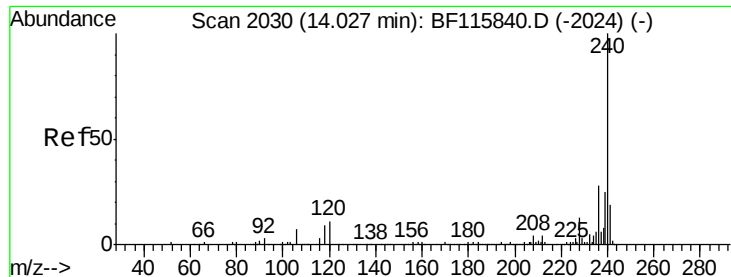
mohammad
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#75
 Fluoranthene
 Concen: 51.383 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. -0.00 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	31.5
203	18.2	0.0	37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF115929.D

Acq: 2 Aug 2019 1:28

Instrument :

BNA_F

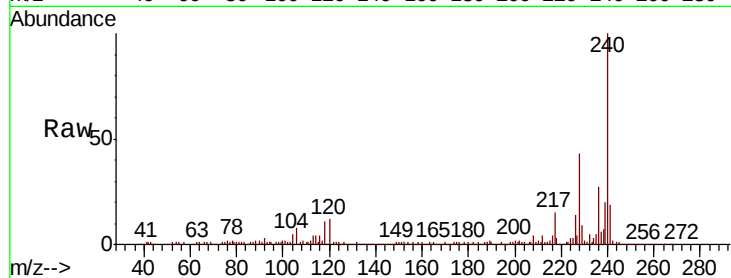
ClientSampleId :

SP-3DL

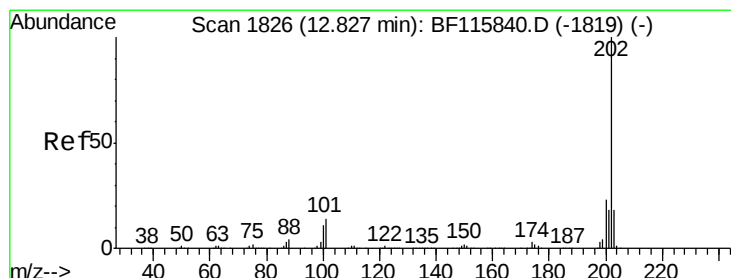
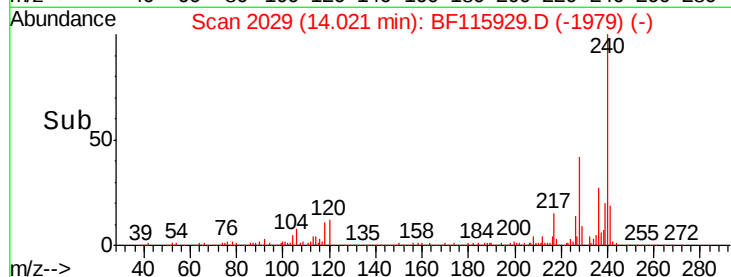
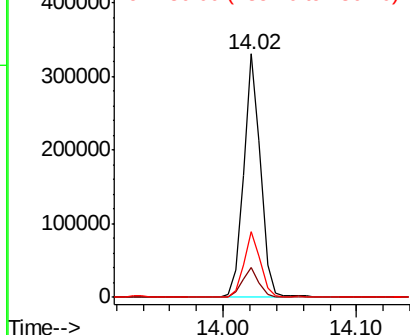
Tot Ion:	240	Resp:	284162
Ion Ratio		Lower	Upper
240	100		
120	12.3	8.5	12.7
236	27.1	22.2	33.2

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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: 49.568 ng

RT: 12.83 min Scan# 1826

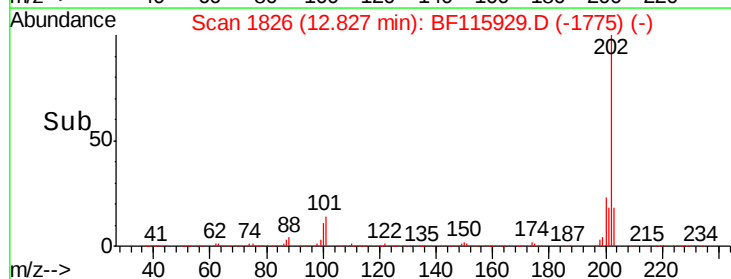
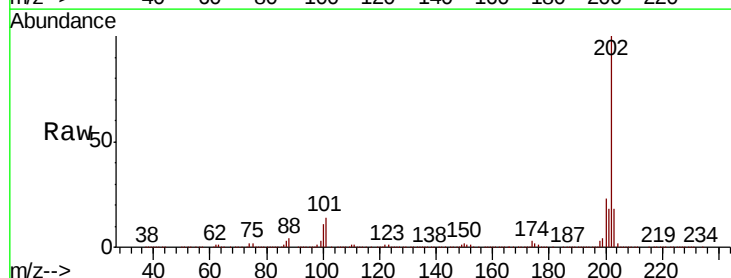
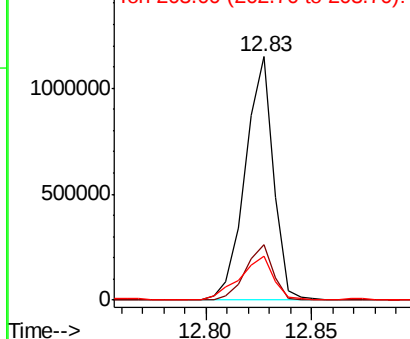
Delta R.T. -0.00 min

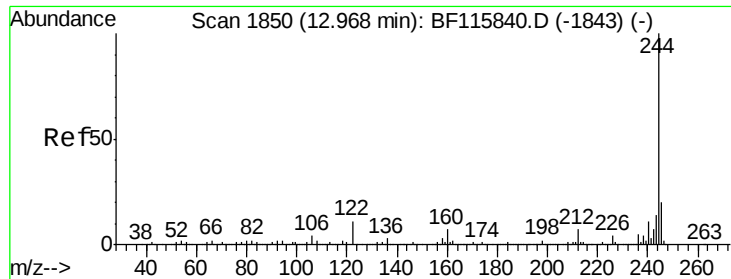
Lab File: BF115929.D

Acq: 2 Aug 2019 1:28

Tgt Ion:	202	Resp:	1061768
Ion Ratio		Lower	Upper
202	100		
200	22.6	18.2	27.2
203	18.0	14.3	21.5

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





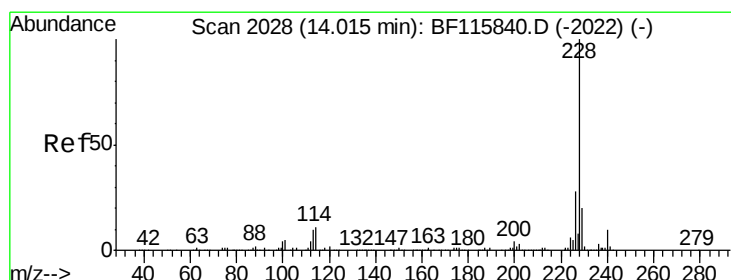
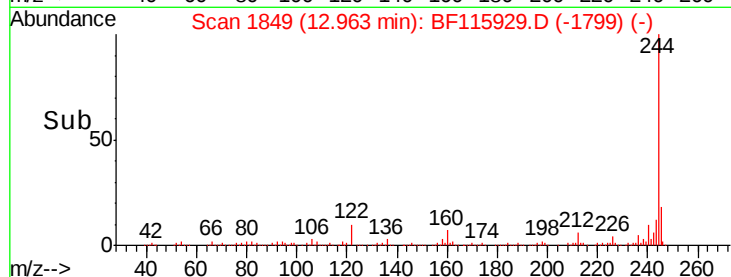
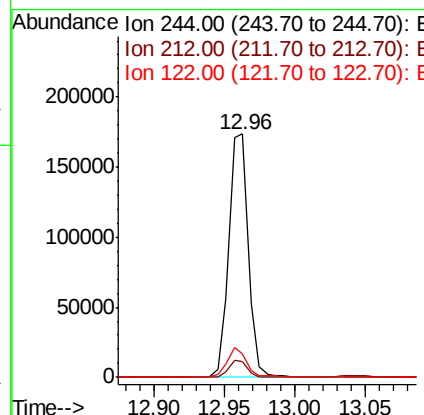
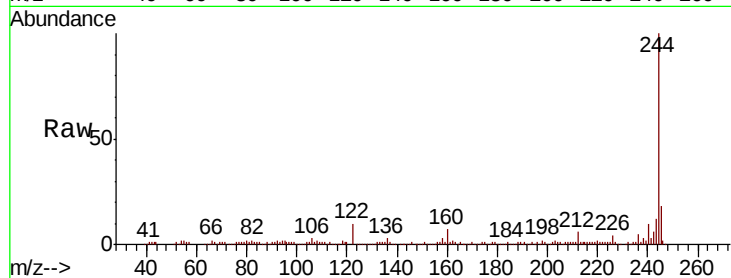
#79
 Terphenyl-d14
 Concen: 12.377 ng
 RT: 12.96 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Instrument :
 BNA_F
 ClientSampleId :
 SP-3DL

Tot Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.4	5.6	8.4
122	9.8	8.6	13.0

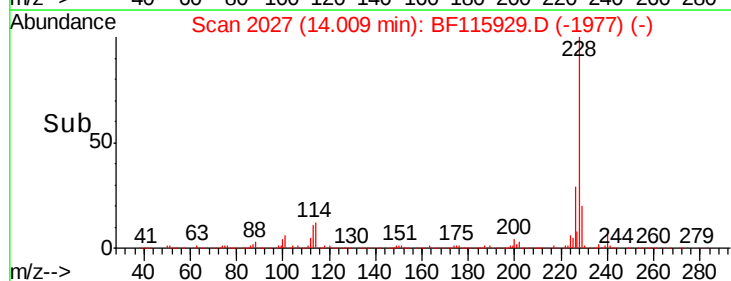
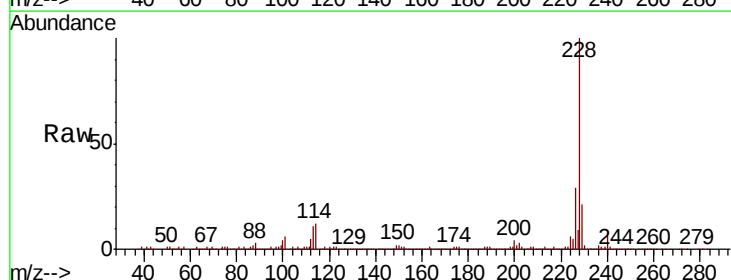
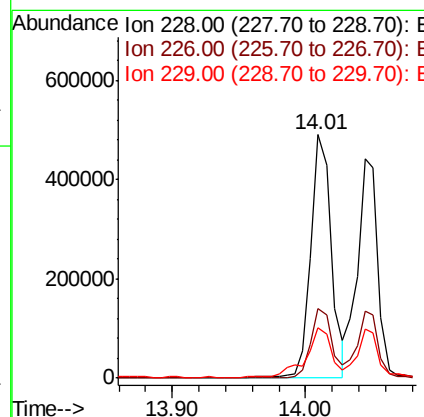
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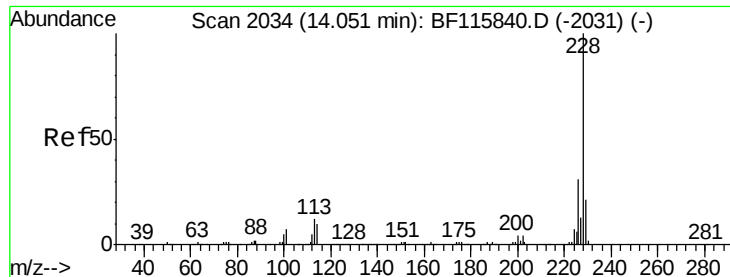
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#81
 Benzo(a)anthracene
 Concen: 28.288 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. -0.01 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	28.8	22.5	33.7
229	20.9	16.1	24.1





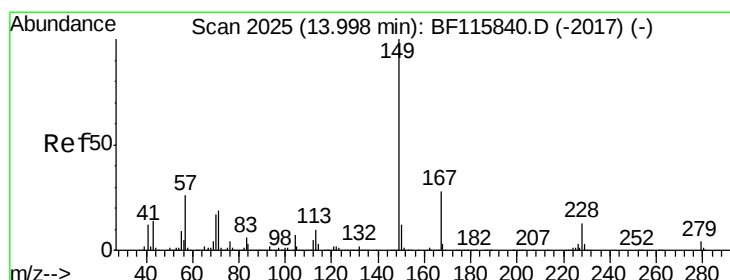
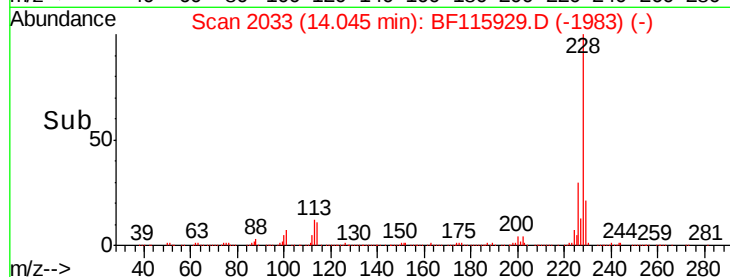
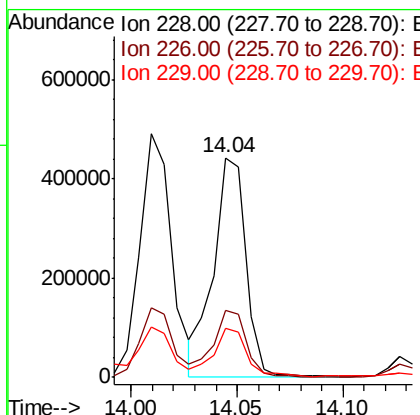
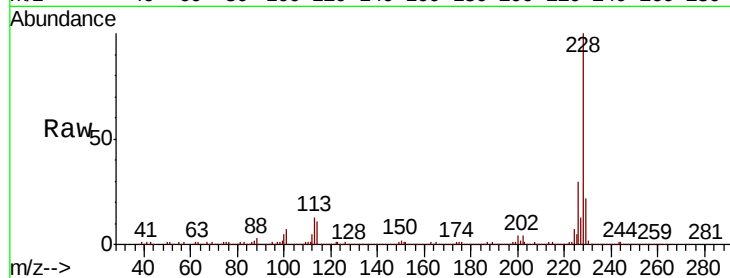
#83
 Chrysene
 Concen: 26.776 ng
 RT: 14.04 min Scan# 2033
 Delta R.T. -0.01 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Instrument :
 BNA_F
 ClientSampled :
 SP-3DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.8	37.2
229	22.0	16.4	24.6

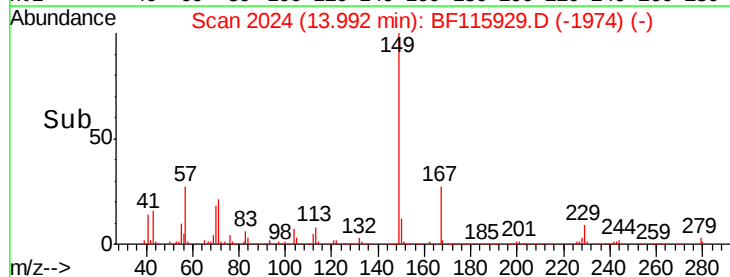
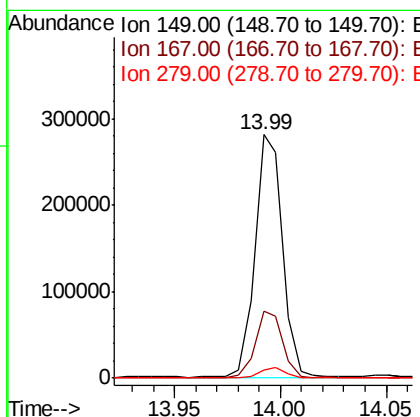
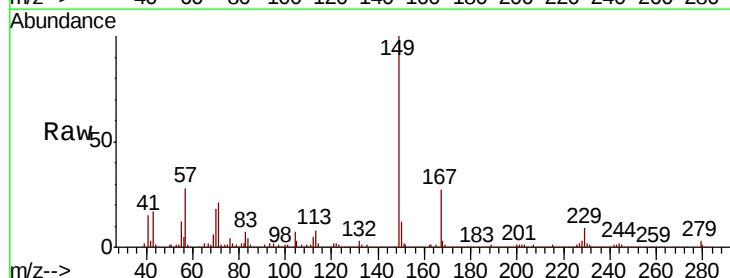
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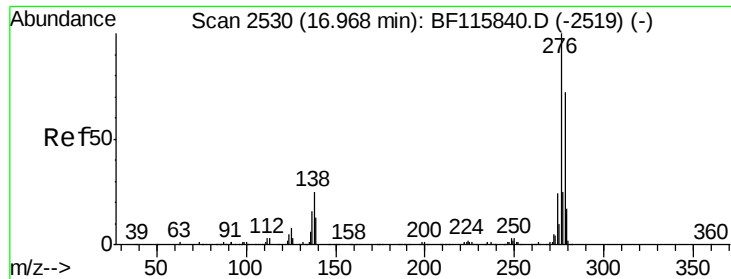
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#84
 Bis(2-ethylhexyl)phthalate
 Concen: 21.574 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. -0.01 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.3	22.4	33.6
279	3.4	3.3	4.9





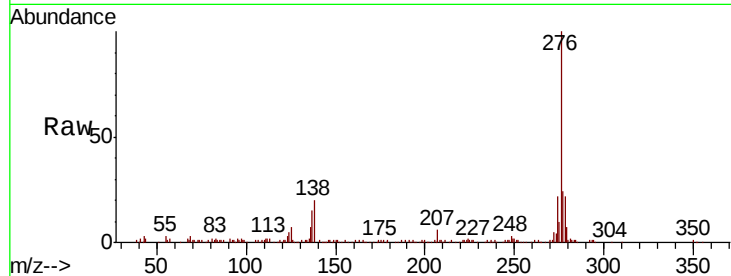
#86
Indeno(1,2,3-cd)pyrene
Concen: 11.749 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.00 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

Instrument :
BNA_F
ClientSampleID :
SP-3DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.0	19.6	29.4
277	24.5	20.1	30.1

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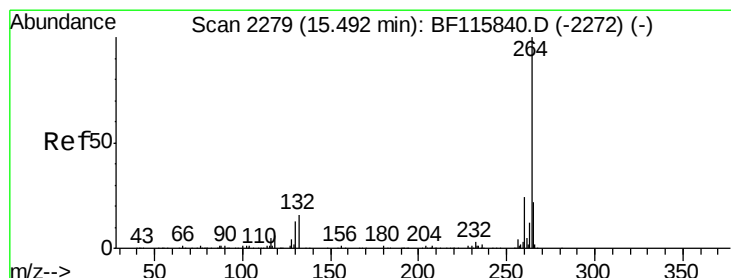
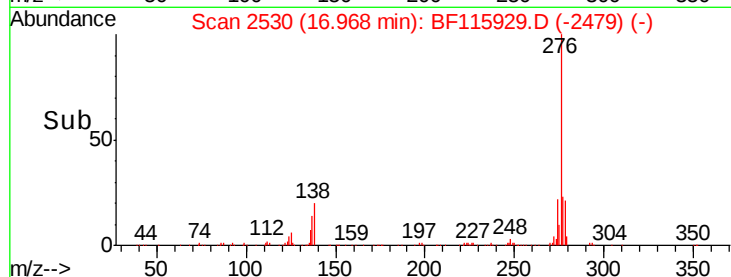
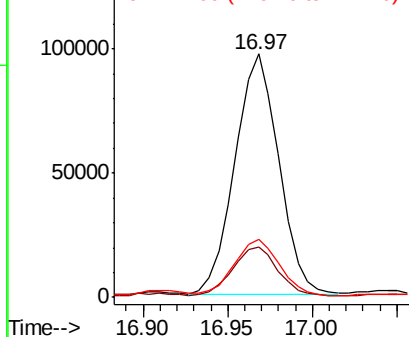


Abundance

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: 15.49 min Scan# 2279
Delta R.T. -0.00 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

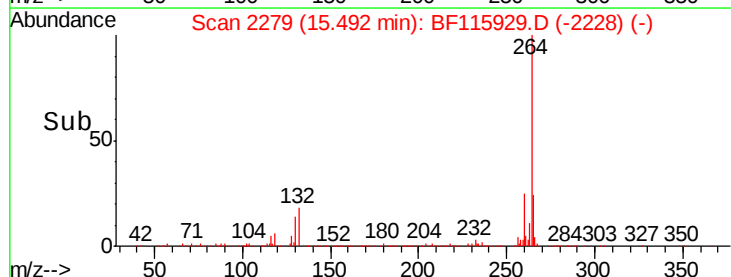
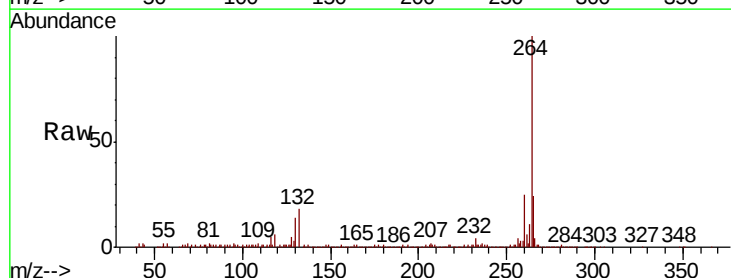
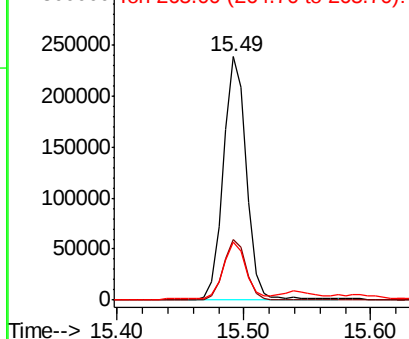
Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	19.4	29.2
265	23.9	17.5	26.3

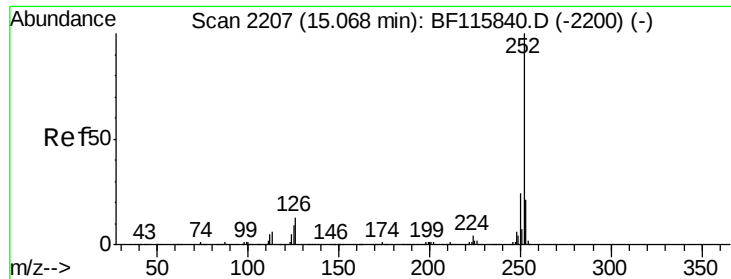
Abundance

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





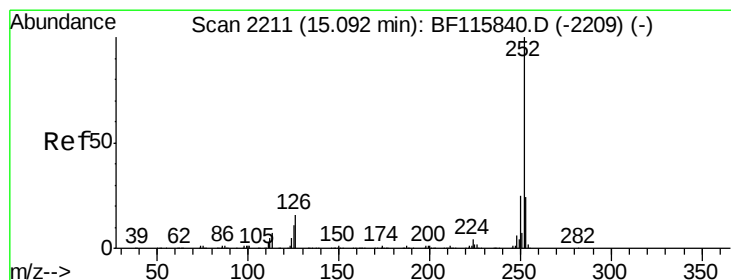
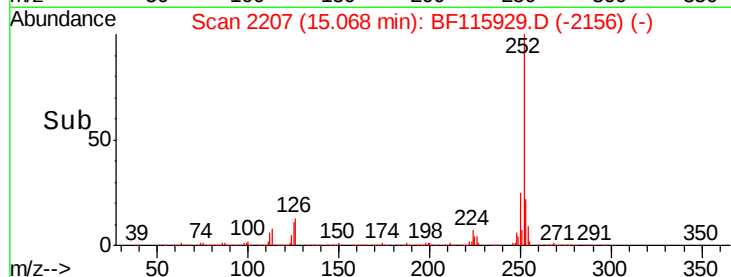
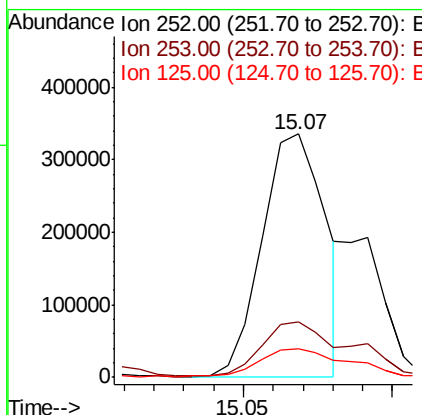
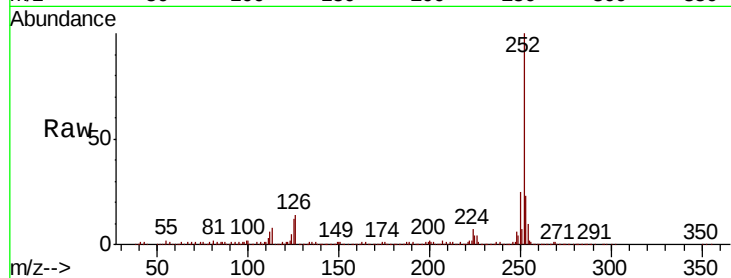
#88
Benzo(b)fluoranthene
Concen: 28.730 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.00 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

Instrument :
BNA_F
ClientSampleId :
SP-3DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.2	25.8
125	11.7	7.4	11.0

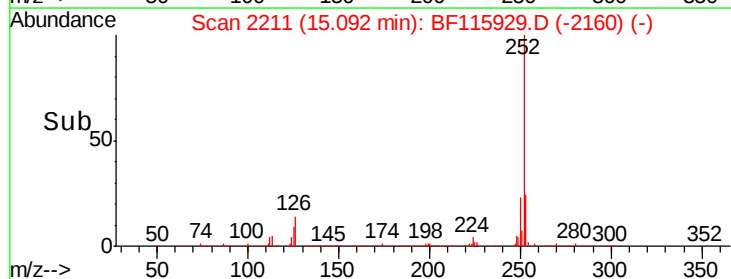
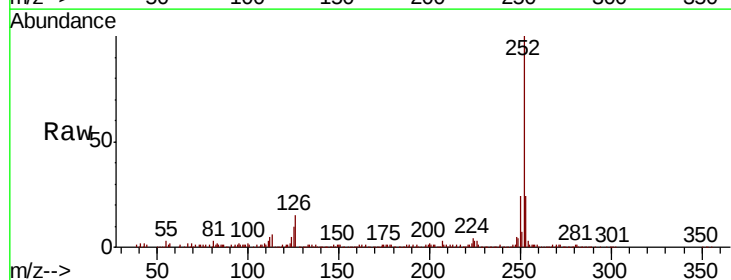
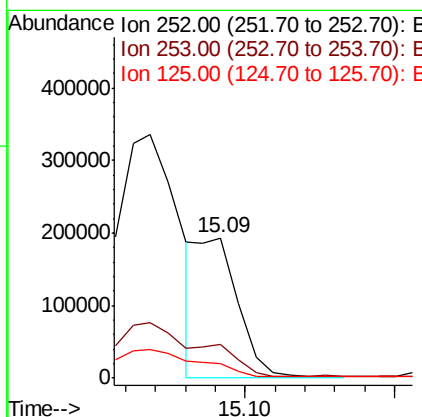
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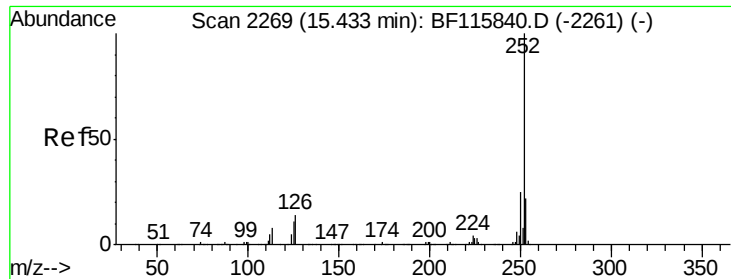
mohammad
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#89
Benzo(k)fluoranthene
Concen: 11.133 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.00 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.2	27.4
125	10.1	8.9	13.3





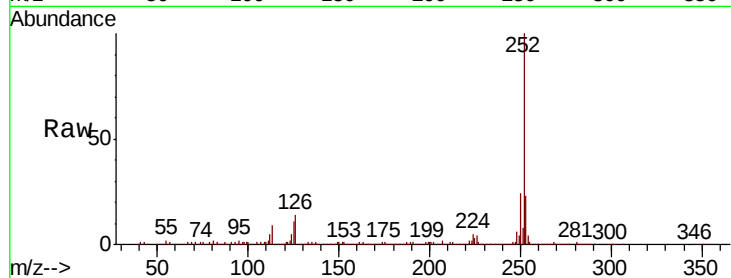
#90
Benzo(a)pyrene
Concen: 23.754 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.00 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

Instrument :
BNA_F
ClientSampled :
SP-3DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.6
125	11.3	8.8	13.2

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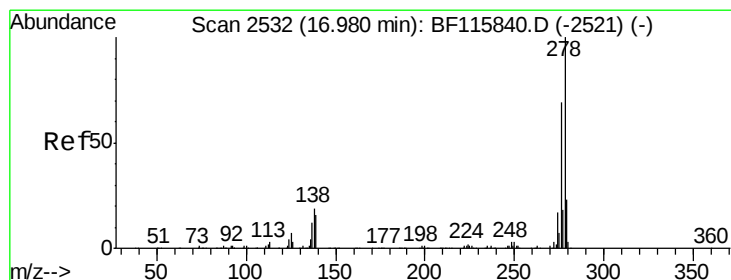
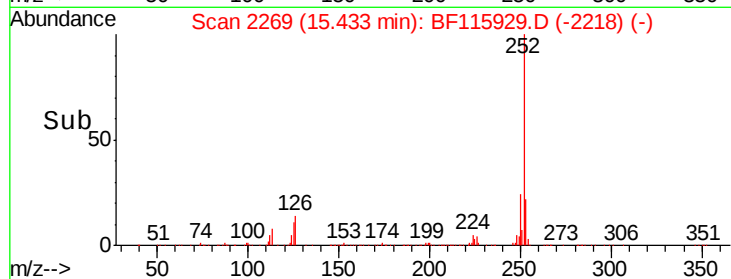
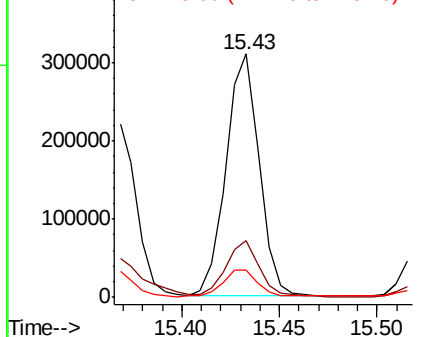


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Dibenzo(a,h)anthracene
Concen: 3.312 ng m
RT: 16.97 min Scan# 2530
Delta R.T. -0.01 min
Lab File: BF115929.D
Acq: 2 Aug 2019 1:28

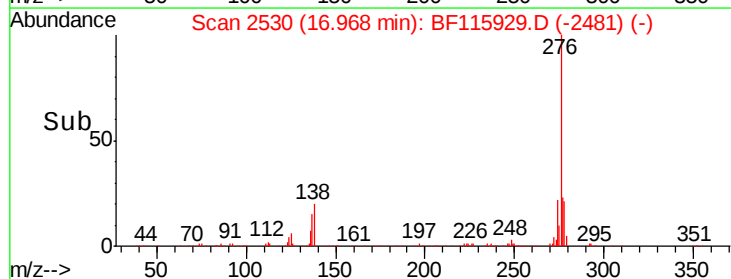
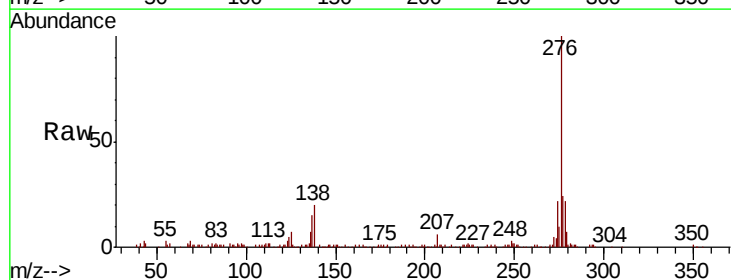
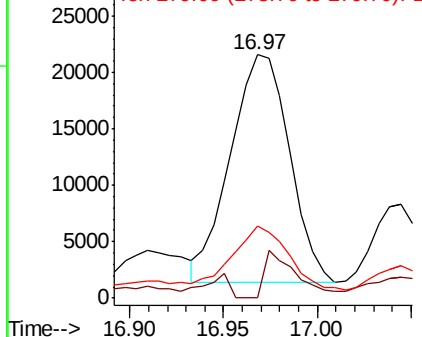
Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.6	19.0#
279	29.7	18.8	28.2#

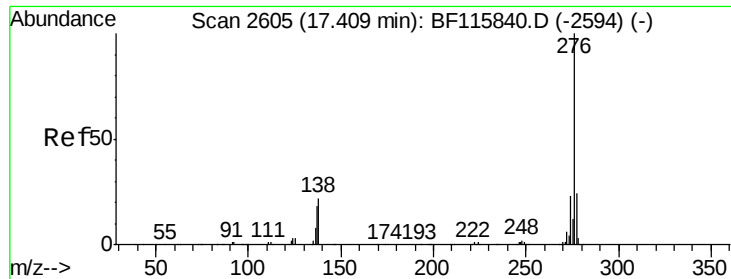
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 13.060 ng
 RT: 17.42 min Scan# 2606
 Delta R.T. 0.01 min
 Lab File: BF115929.D
 Acq: 2 Aug 2019 1:28

Instrument :
 BNA_F
 ClientSampleId :
 SP-3DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.9	19.5	29.3
138	20.9	17.8	26.8

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