

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032720\
 Data File : BF119625.D
 Acq On : 28 Mar 2020 19:04
 Operator : CG/JU
 Sample : L2040-07
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-11986

Manual Integrations
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mohammad
 3/31/2020 8:14:57 AM

Quant Time: Mar 30 02:20:14 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 27 07:52:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	294162	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	1048823	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	441052	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	664907	20.00	ng	0.00
76) Chrysene-d12	14.01	240	547970	20.00	ng	0.00
87) Perylene-d12	15.47	264	503683	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.45	112	1894045	102.50	ng	0.01
7) Phenol-d6	6.46	99	2406790	101.96	ng	0.00
23) Nitrobenzene-d5	7.40	82	1471974	76.27	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	444181	97.62	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	2317309	77.84	ng	0.00
79) Terphenyl-d14	12.96	244	2001301	71.55	ng	0.00

Target Compounds

						Qvalue
37) 2-Methylnaphthalene	8.83	142	128701	3.633	ng	96
38) 1-Methylnaphthalene	8.93	142	185083	5.520	ng	97
46) 1,1'-Biphenyl	9.30	154	118832	3.308	ng	97
49) Acenaphthylene	9.74	152	111661	2.527	ng	98
50) Dimethylphthalate	9.59	163	210853	6.730	ng	100
52) Acenaphthene	9.91	154	499041	18.116	ng	99
55) Dibenzofuran	10.08	168	663165	16.791	ng	98
58) Fluorene	10.43	166	692046	23.696	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.20	232	16552	2.137	ng	# 53
70) Pentachlorophenol	11.17	266	261276	57.494	ng	98
71) Phenanthrene	11.39	178	2386381	69.216	ng	100
72) Anthracene	11.44	178	628229	17.929	ng	97
73) Carbazole	11.59	167	135484	3.906	ng	97
75) Fluoranthene	12.59	202	2103618	56.378	ng	98
78) Pyrene	12.81	202	2050341	45.592	ng	99
81) Benzo(a)anthracene	14.00	228	820004	23.012	ng	96
83) Chrysene	14.03	228	774340	21.056	ng	97
86) Indeno(1,2,3-cd)pyrene	16.93	276	173173	5.000	ng	97
88) Benzo(b)fluoranthene	15.04	252	698299m	20.754	ng	
89) Benzo(k)fluoranthene	15.07	252	238475m	7.444	ng	
90) Benzo(a)pyrene	15.41	252	373362	12.211	ng	99
92) Benzo(g,h,i)perylene	17.37	276	143548	5.343	ng	98

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

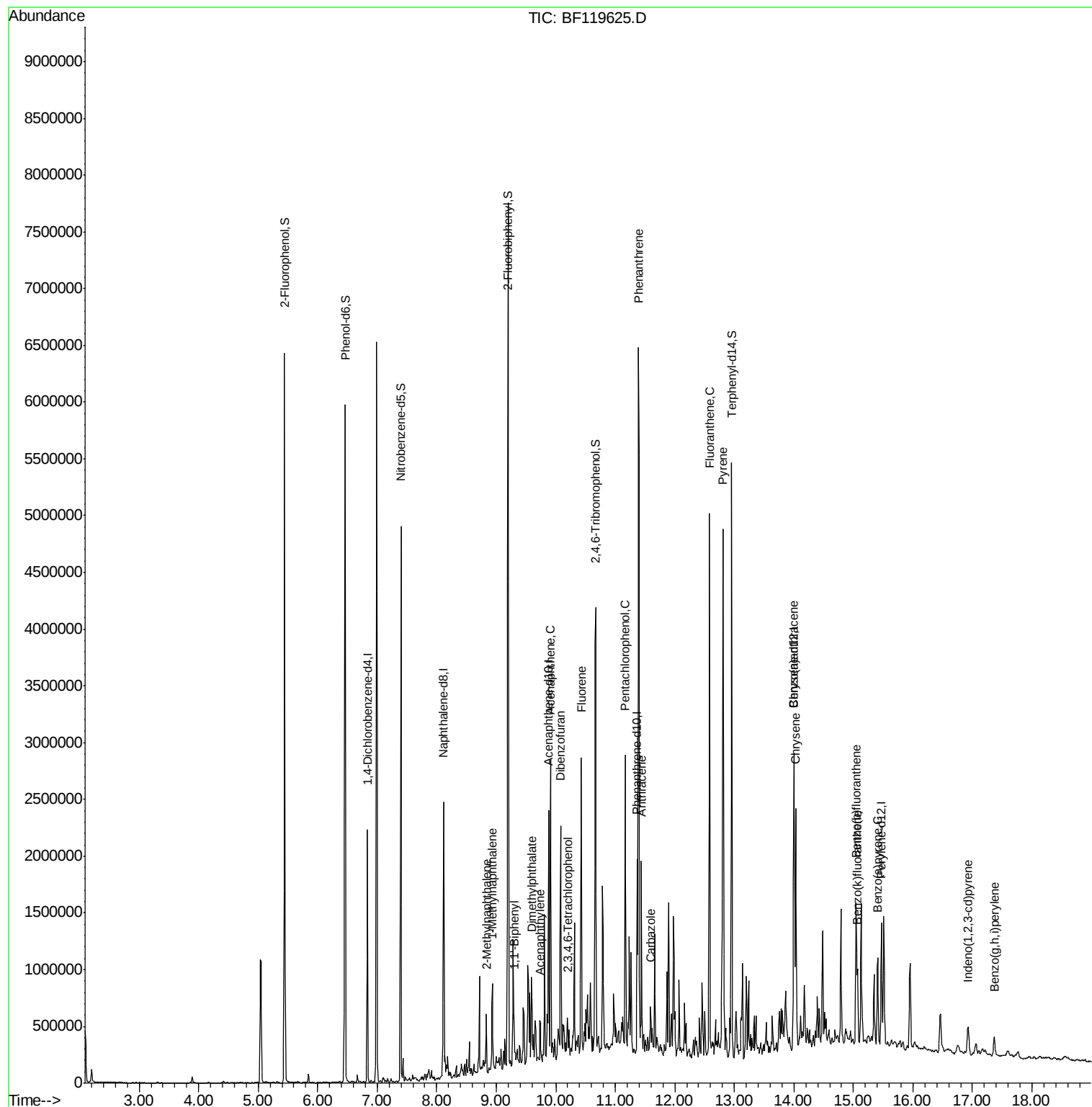
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032720\
Data File : BF119625.D
Acq On : 28 Mar 2020 19:04
Operator : CG/JU
Sample : L2040-07
Misc :
ALS Vial : 55 Sample Multiplier: 1

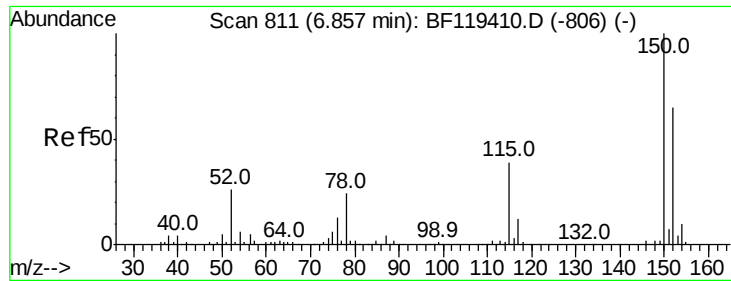
Instrument :
BNA_F
ClientSampleId :
RO-11986

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

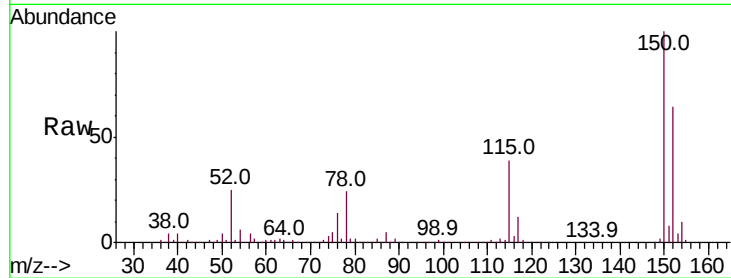
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.00 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Instrument :
BNA_F
ClientSampleId :
RO-11986

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.5	186.7
115	60.7	49.6	74.4

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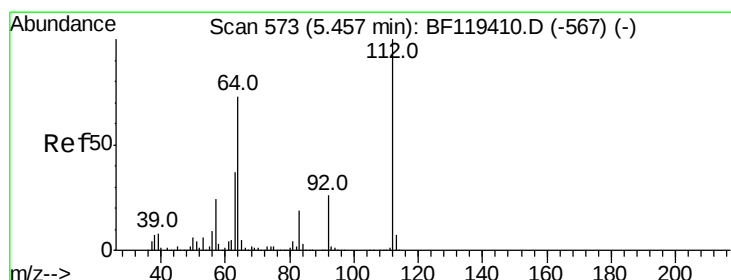
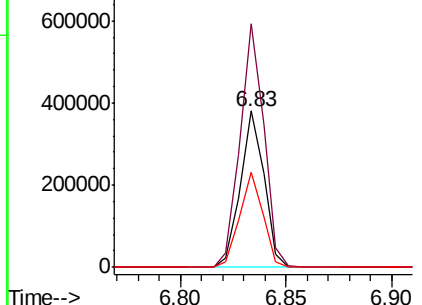
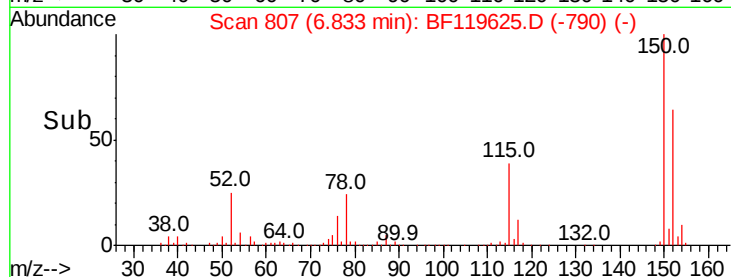


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

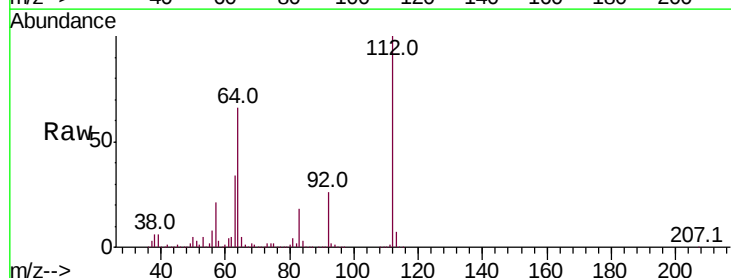
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 102.499 ng
RT: 5.45 min Scan# 572
Delta R.T. 0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.7	56.7	85.1
63	33.7	29.5	44.3

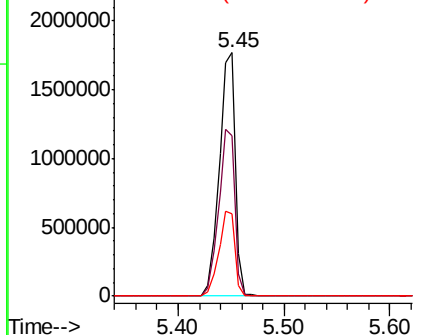
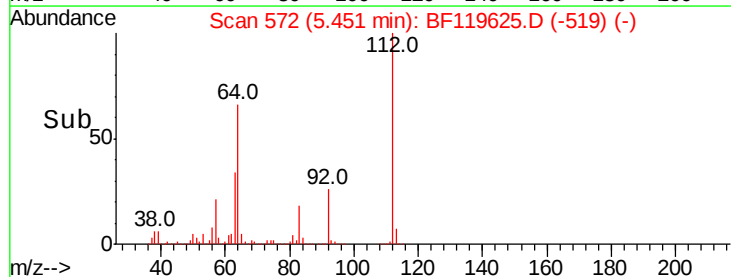


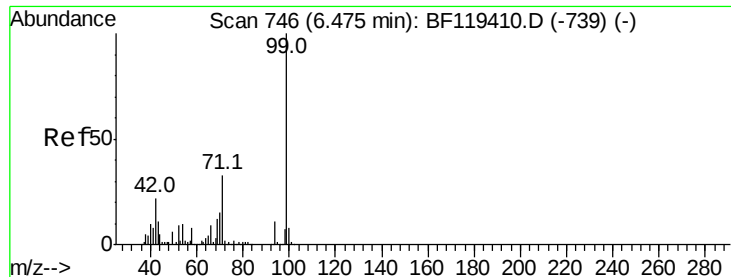
Abundance

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: 101.960 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.00 min

Lab File: BF119625.D

Acq: 28 Mar 2020 19:04

Instrument :

BNA_F

ClientSampled :

RO-11986

Tot Ion: 99 Resp: 2406790

Ion Ratio Lower Upper

99 100

42 18.7 16.6 24.8

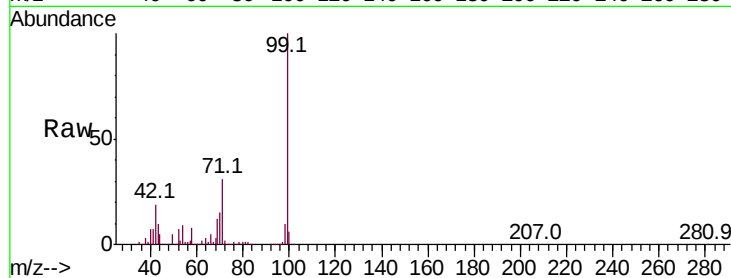
71 30.6 26.4 39.6

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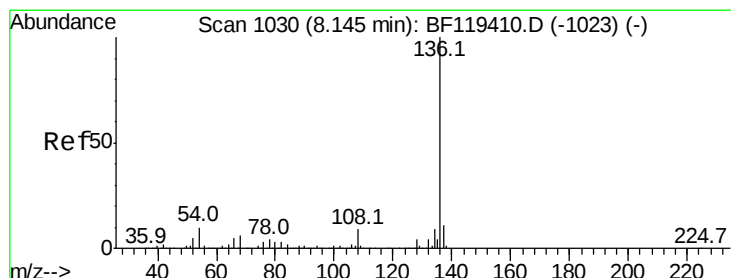
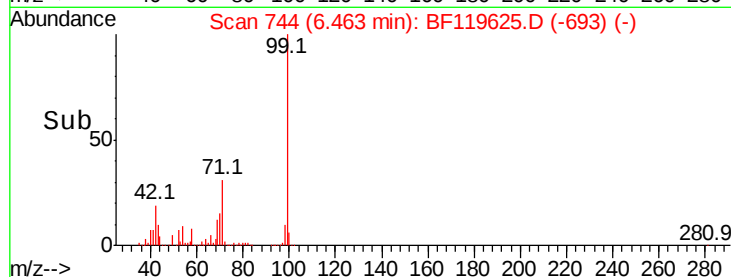
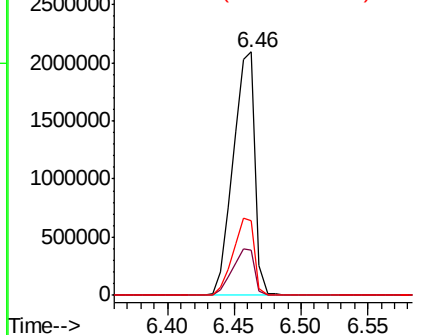
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF119625.D

Acq: 28 Mar 2020 19:04

Tgt Ion:136 Resp: 1048823

Ion Ratio Lower Upper

136 100

137 11.4 8.7 13.1

54 11.4 9.1 13.7

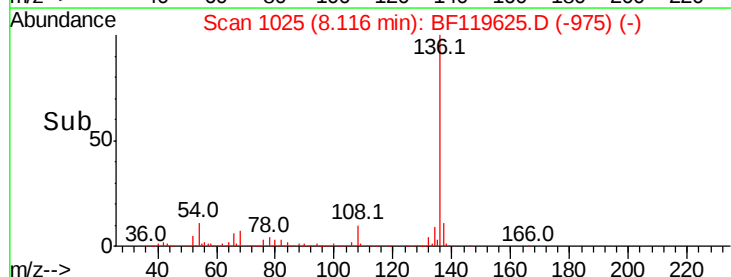
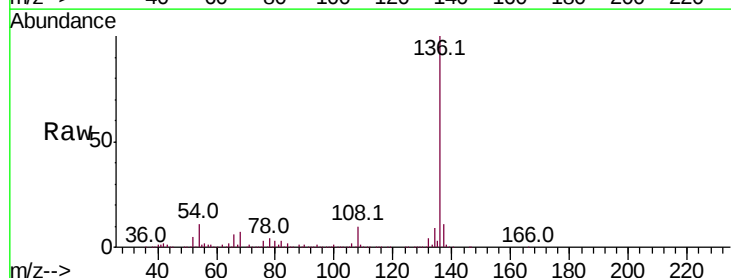
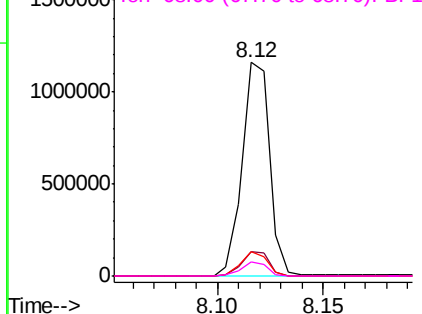
68 6.8 4.6 6.8

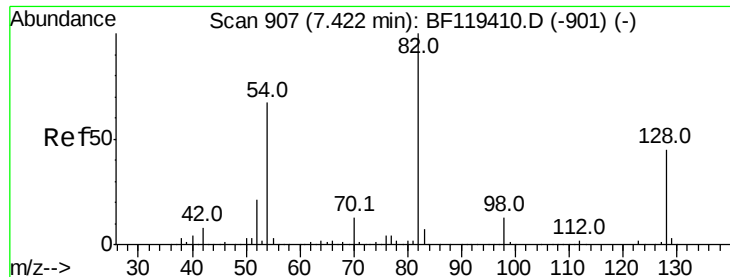
Abundance Ion 136.00 (135.70 to 136.70): E

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





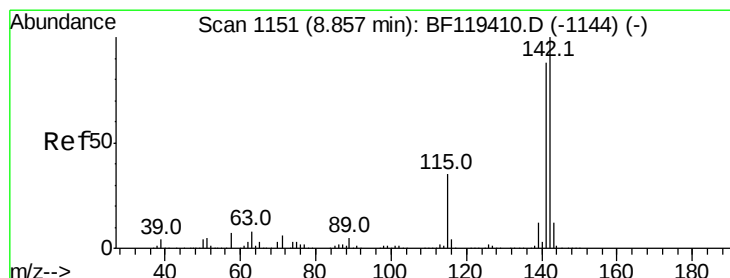
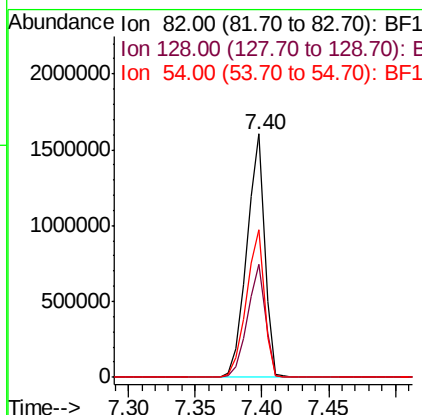
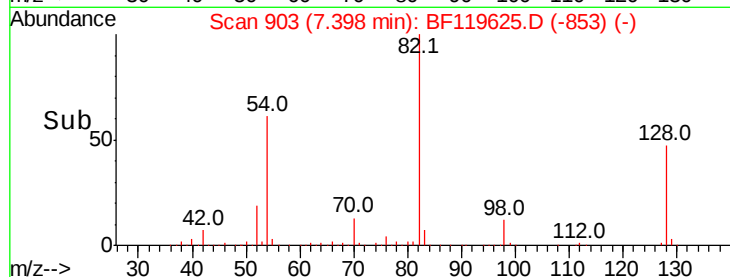
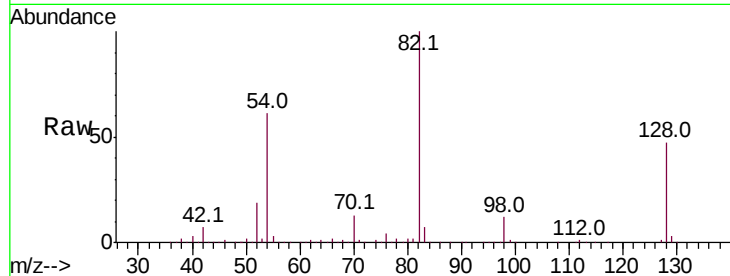
#23
Nitrobenzene-d5
Concen: 76.275 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Instrument :
BNA_F
ClientSampleId :
RO-11986

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.5	36.3	54.5
54	60.7	50.6	75.8

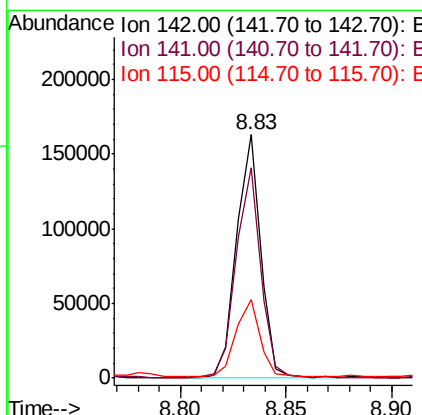
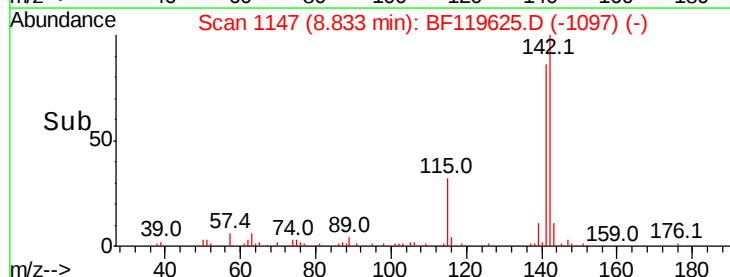
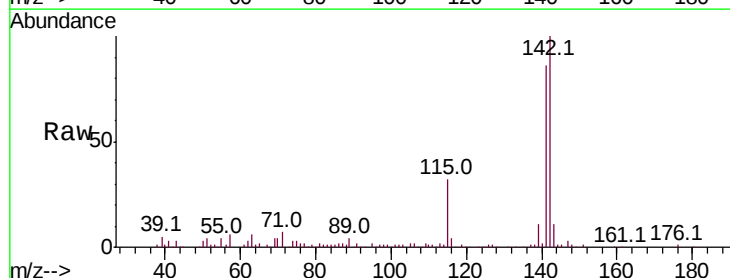
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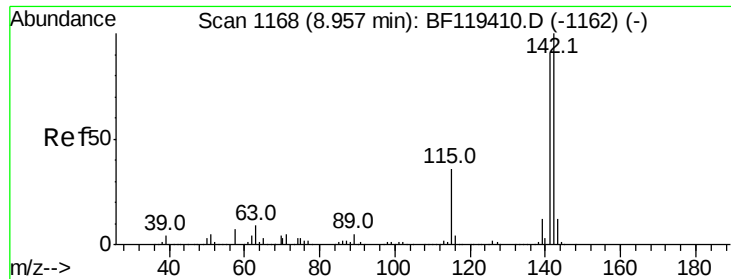
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#37
2-Methylnaphthalene
Concen: 3.633 ng
RT: 8.83 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.4	71.7	107.5
115	32.0	27.9	41.9





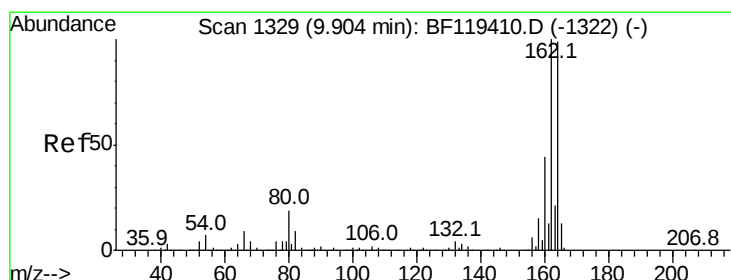
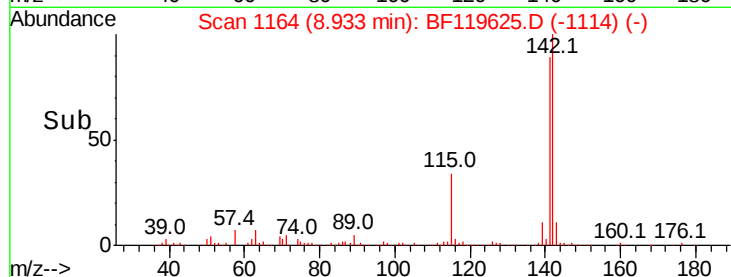
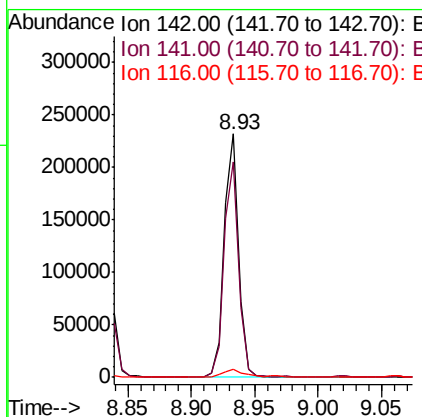
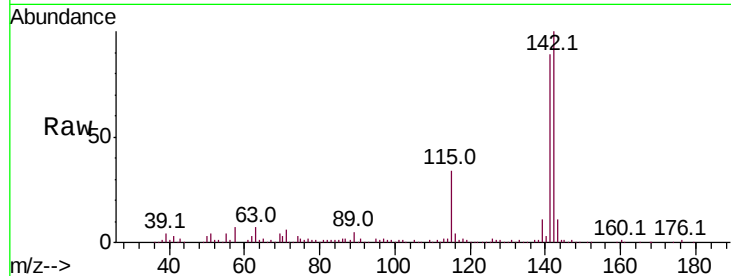
#38
 1-Methyl-naphthalene
 Concen: 5.520 ng
 RT: 8.93 min Scan# 1164
 Delta R.T. -0.01 min
 Lab File: BF119625.D
 Acq: 28 Mar 2020 19:04

Instrument :
 BNA_F
 ClientSampleId :
 RO-11986

Tot Ion:	142	Resp:	185083
Ion Ratio	Lower	Upper	
142	100		
141	88.7	73.7	110.5
116	3.5	3.0	4.6

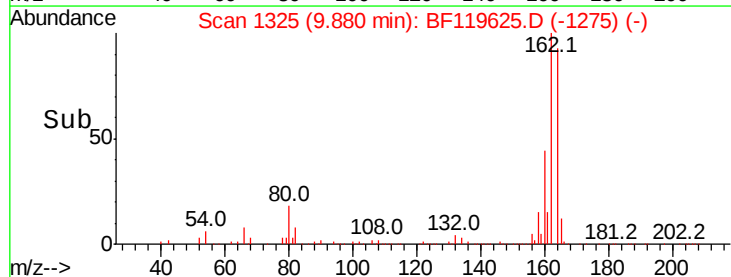
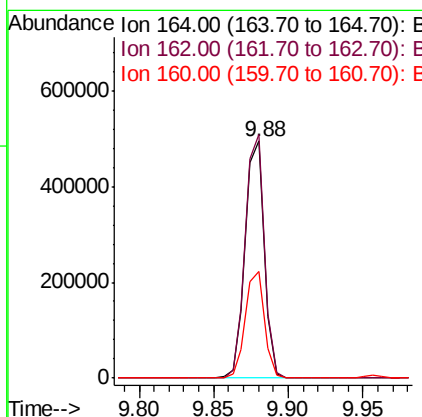
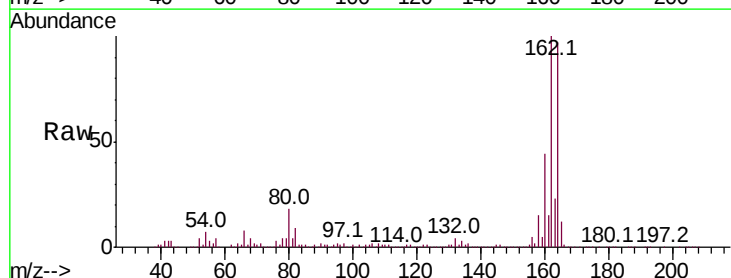
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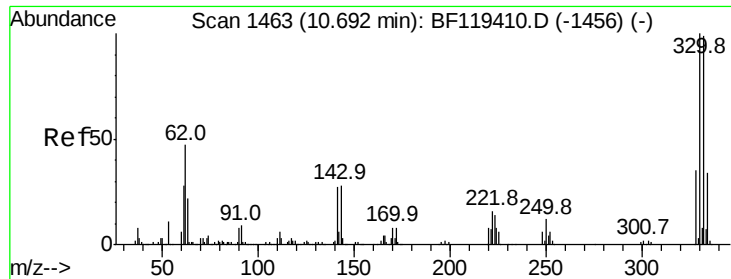
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#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: BF119625.D
 Acq: 28 Mar 2020 19:04

Tgt Ion:	164	Resp:	441052
Ion Ratio	Lower	Upper	
164	100		
162	102.7	80.6	121.0
160	45.2	35.7	53.5





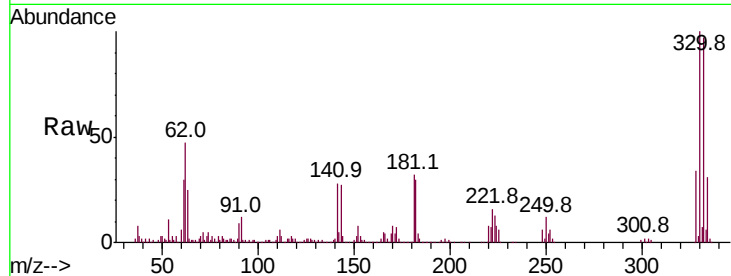
#42
 2,4,6-Tribromophenol
 Concen: 97.618 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF119625.D
 Acq: 28 Mar 2020 19:04

Instrument :
 BNA_F
 ClientSampleId :
 RO-11986

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.7	75.7	113.5
141	30.8	25.4	38.0

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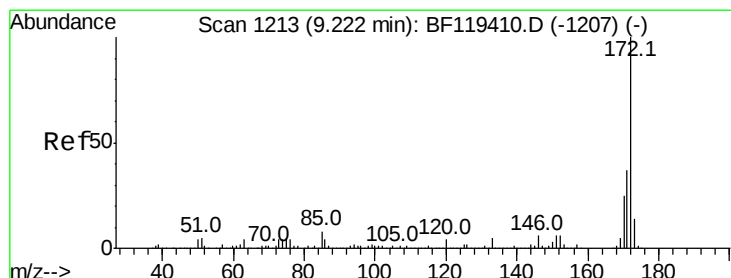
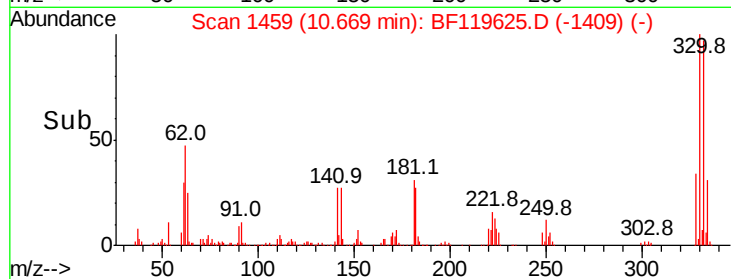
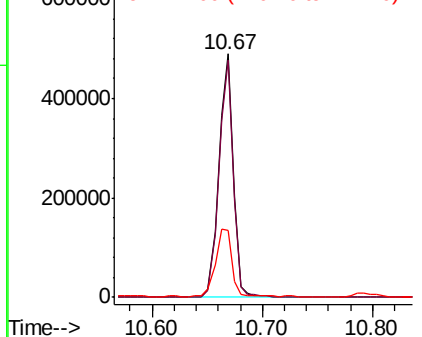


Abundance

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: 77.837 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF119625.D
 Acq: 28 Mar 2020 19:04

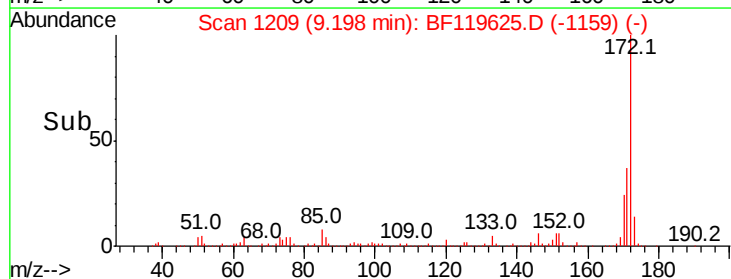
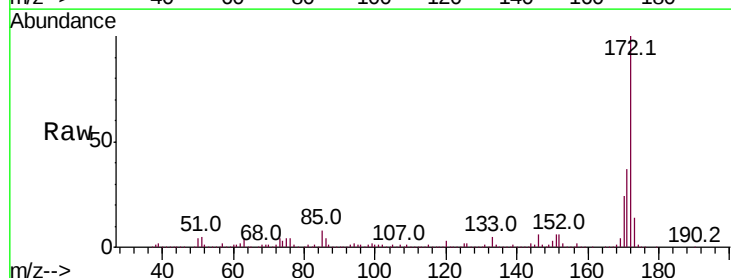
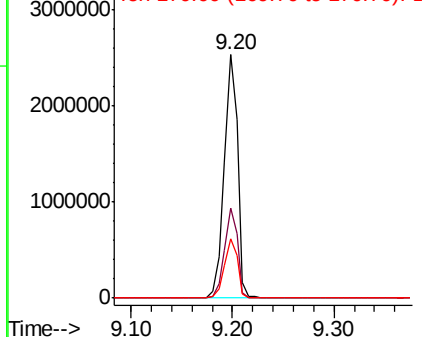
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.6	44.4
170	24.2	20.2	30.2

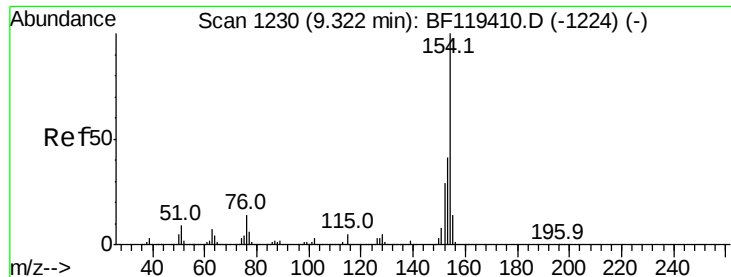
Abundance

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





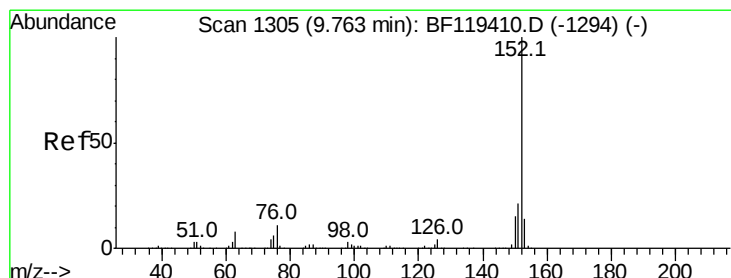
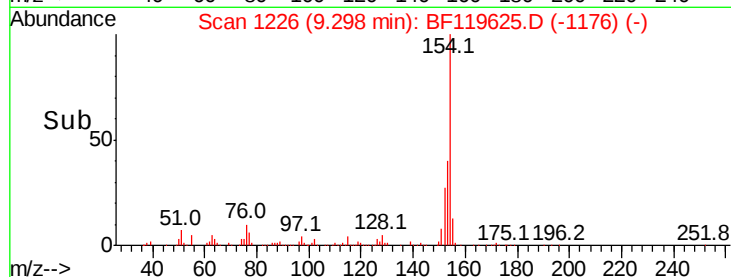
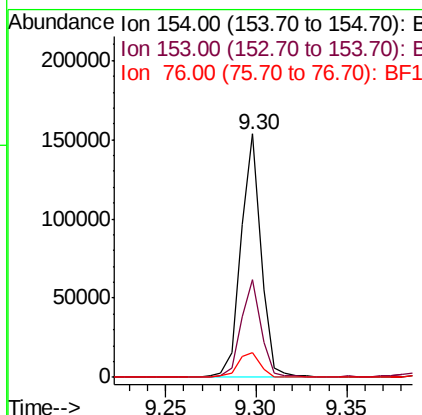
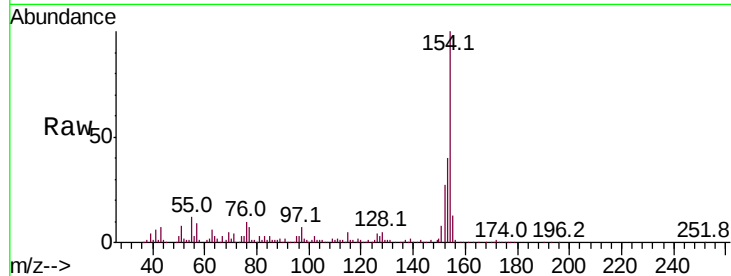
#46
 1,1'-Biphenyl
 Concen: 3.308 ng
 RT: 9.30 min Scan# 1226
 Delta R.T. -0.01 min
 Lab File: BF119625.D
 Acq: 28 Mar 2020 19:04

Instrument :
 BNA_F
 ClientSampleId :
 RO-11986

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	39.9	21.4	61.4	
76	10.4	0.0	33.0	

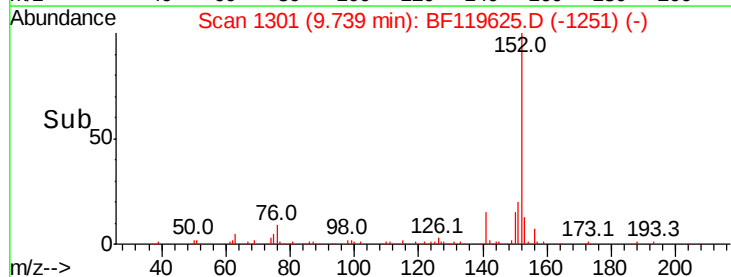
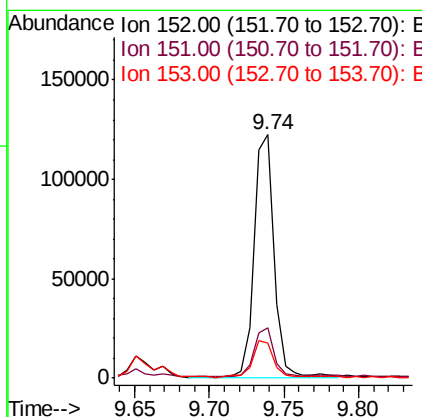
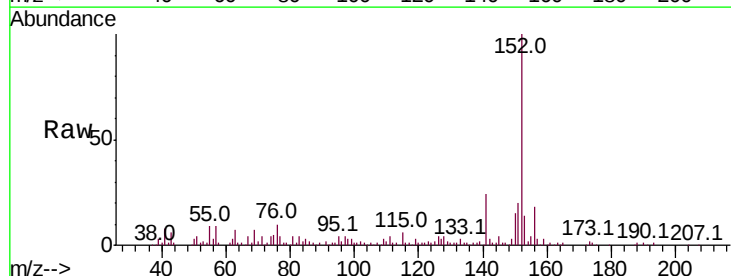
Manual Integrations
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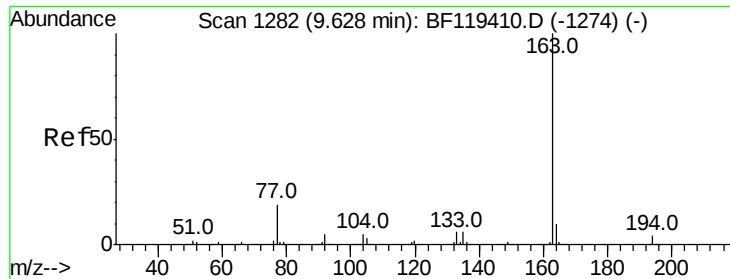
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#49
 Acenaphthylene
 Concen: 2.527 ng
 RT: 9.74 min Scan# 1301
 Delta R.T. -0.01 min
 Lab File: BF119625.D
 Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	20.5	17.2	25.8	
153	14.3	11.2	16.8	





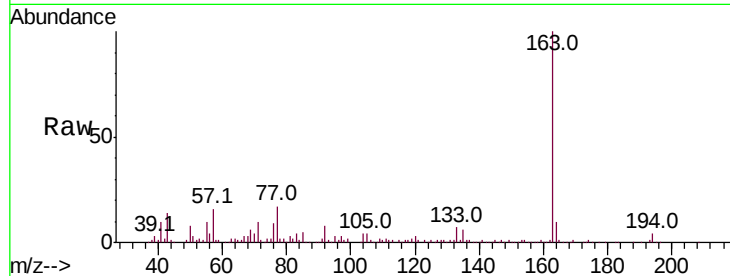
#50
Dimethylphthalate
Concen: 6.730 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Instrument :
BNA_F
ClientSampleId :
RO-11986

Tot Ion	Ratio	Resp	Lower	Upper
163	100	210853		
194	4.2		3.1	4.7
164	10.1		8.2	12.2

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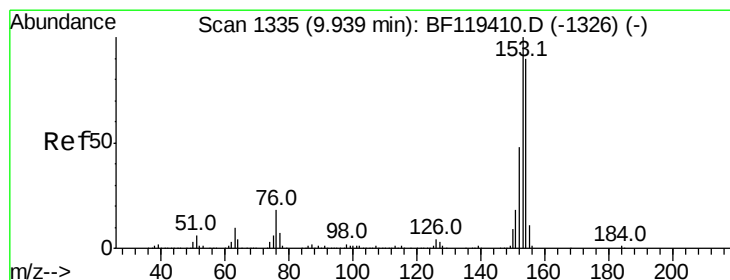
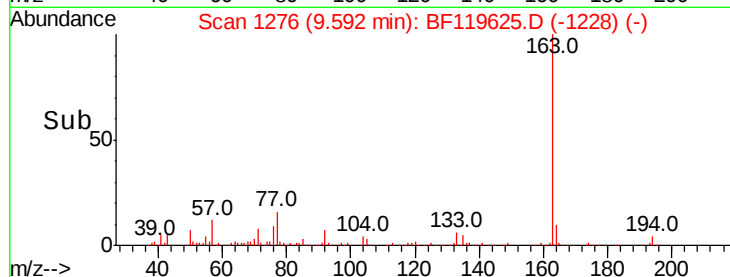
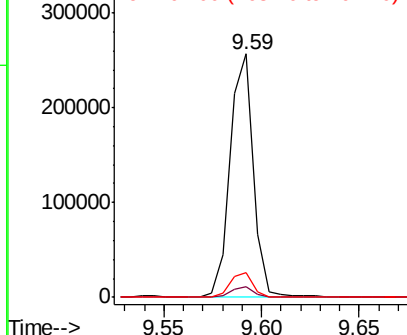


Abundance

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: 18.116 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

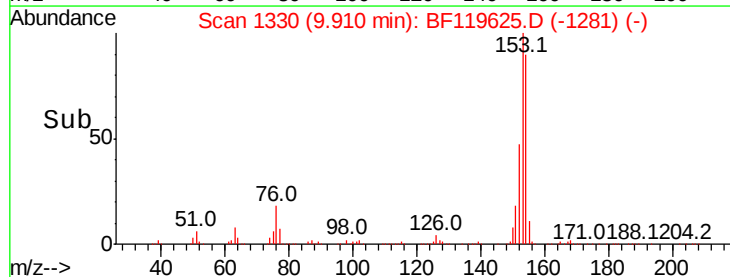
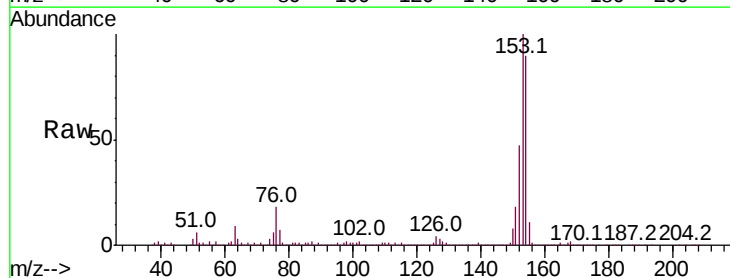
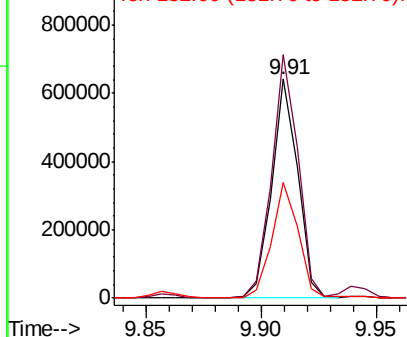
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	499041		
153	111.1		88.1	132.1
152	52.7		43.0	64.4

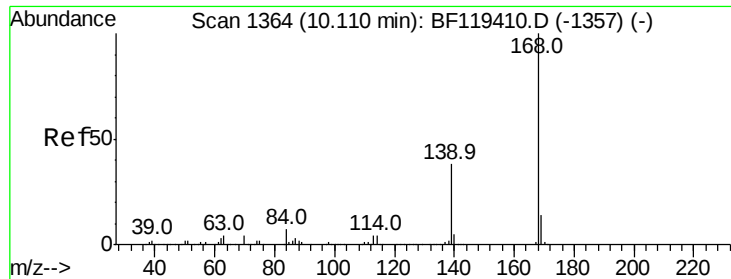
Abundance

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





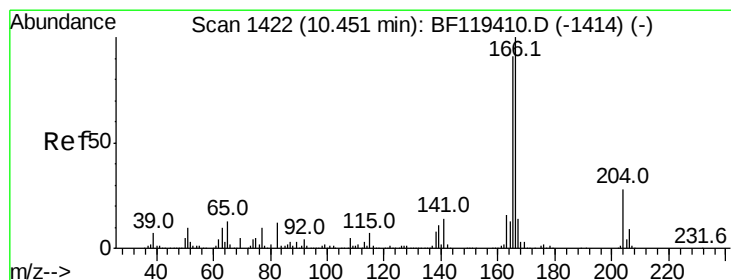
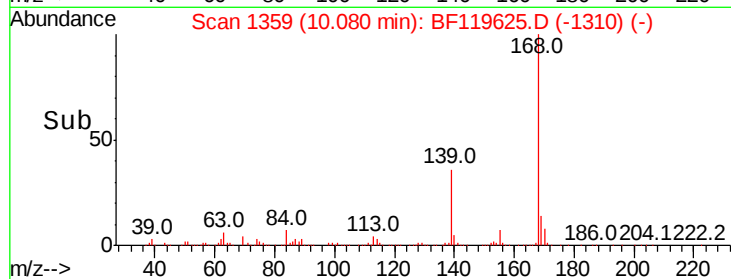
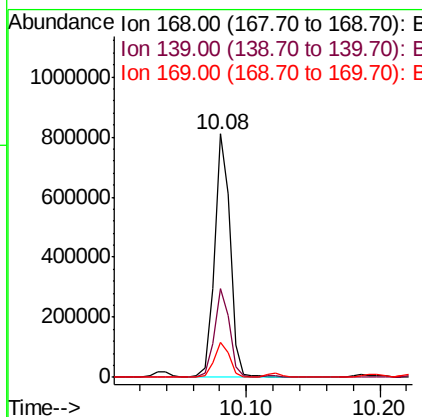
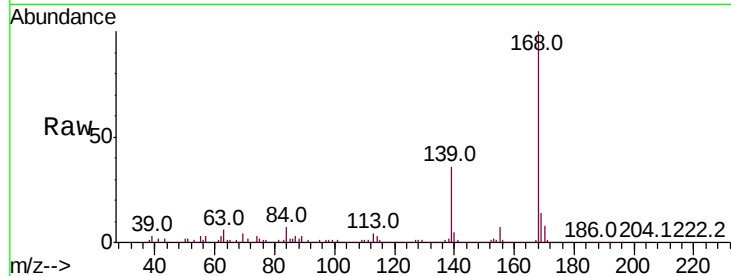
#55
Dibenzofuran
Concen: 16.791 ng
RT: 10.08 min Scan# 1359
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Instrument :
BNA_F
ClientSampled :
RO-11986

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.5	30.1	45.1
169	14.3	11.0	16.6

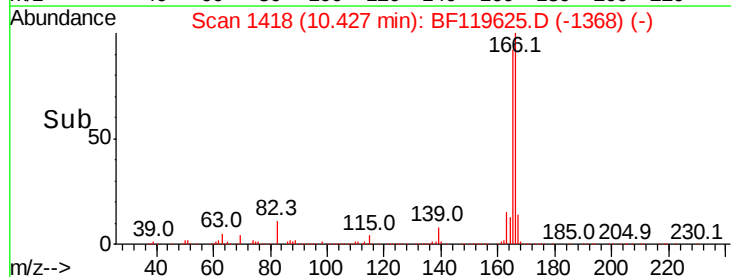
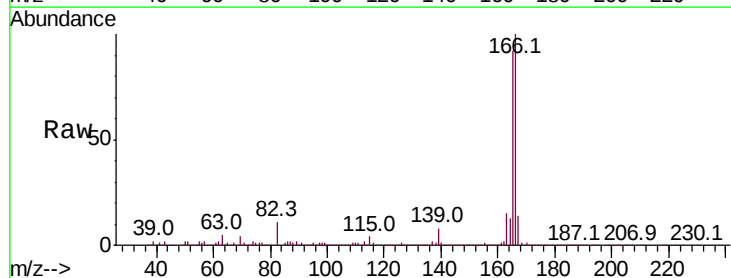
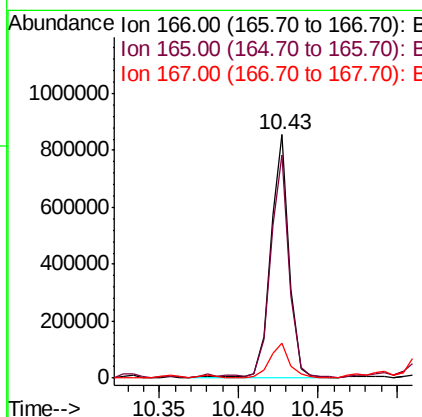
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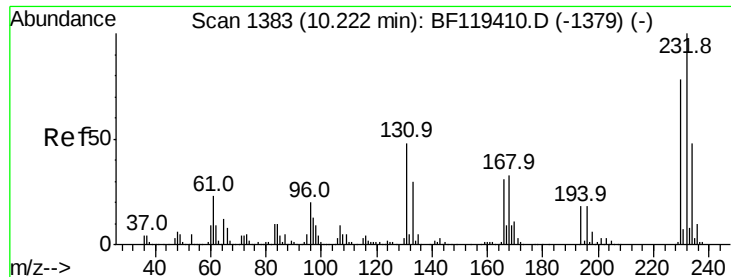
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#58
Fluorene
Concen: 23.696 ng
RT: 10.43 min Scan# 1418
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Lower	Upper
166	100		
165	91.7	75.4	113.2
167	14.3	11.2	16.8





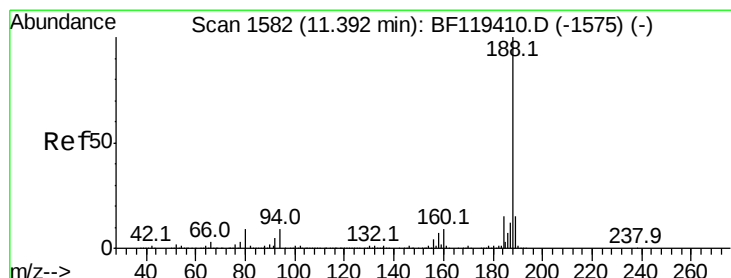
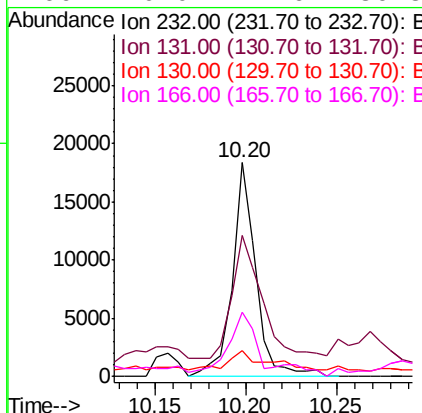
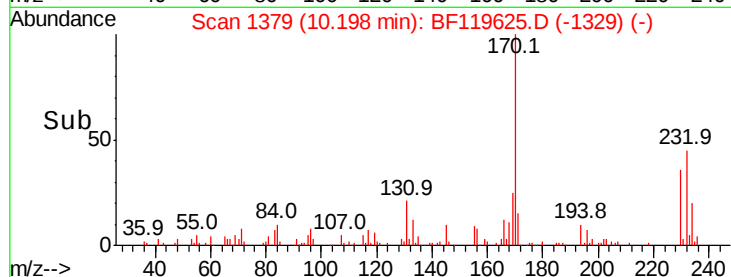
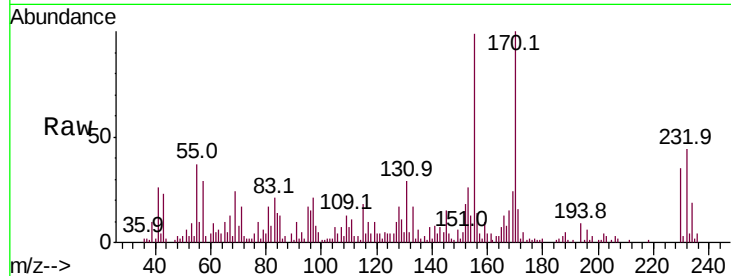
#59
 2,3,4,6-Tetrachlorophenol
 Concen: 2.137 ng
 RT: 10.20 min Scan# 1379
 Delta R.T. -0.01 min
 Lab File: BF119625.D
 Acq: 28 Mar 2020 19:04

Instrument :
 BNA_F
 ClientSampleId :
 RO-11986

Tot Ion	Ratio	Lower	Upper
232	100		
131	74.1	37.5	56.3#
130	15.0	1.8	2.6#
166	0.0	24.6	36.8#

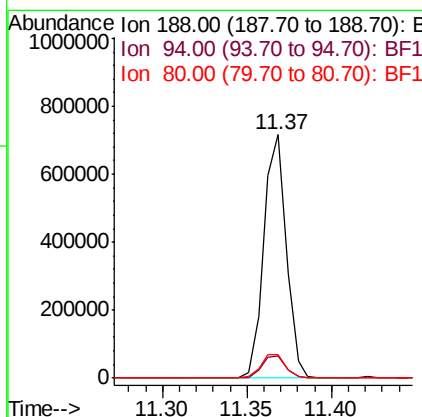
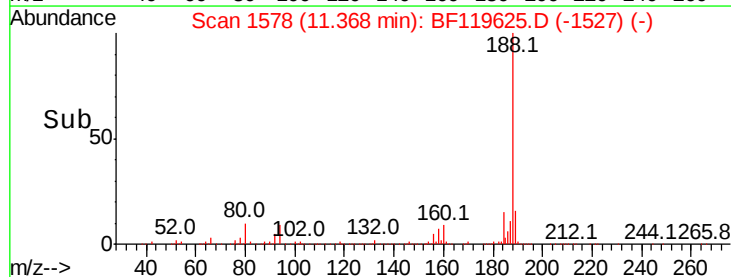
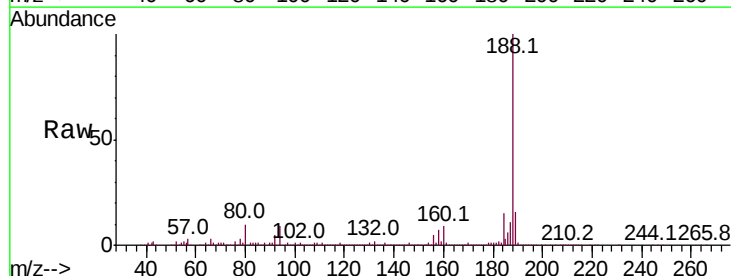
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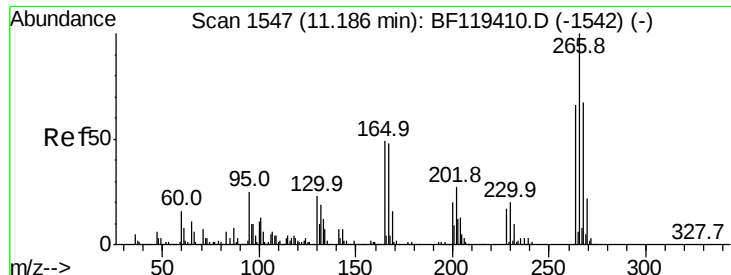
mohammad
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: BF119625.D
 Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.5	11.3
80	9.8	9.0	13.4





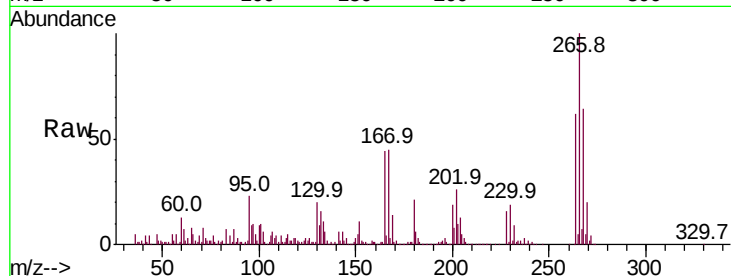
#70
 Pentachlorophenol
 Concen: 57.494 ng
 RT: 11.17 min Scan# 1544
 Delta R.T. -0.01 min
 Lab File: BF119625.D
 Acq: 28 Mar 2020 19:04

Instrument :
 BNA_F
 ClientSampled :
 RO-11986

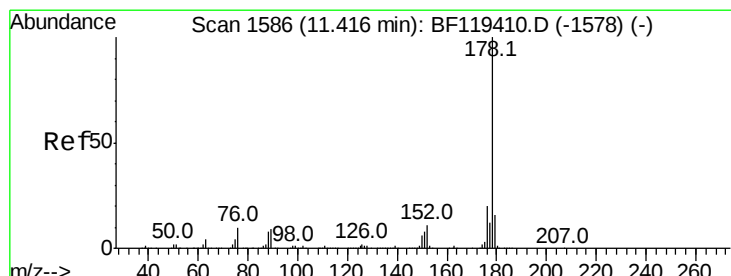
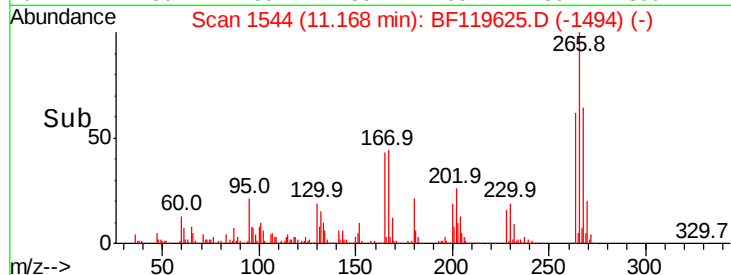
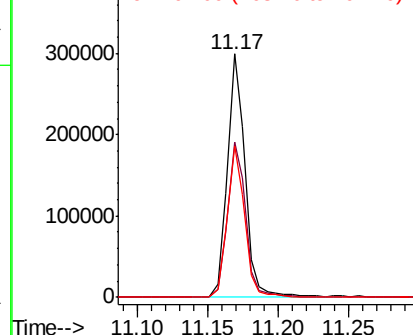
Tot Ion	Ratio	Resp	Lower	Upper
266	100	261276		
268	63.8	53.3	79.9	
264	62.1	49.0	73.4	

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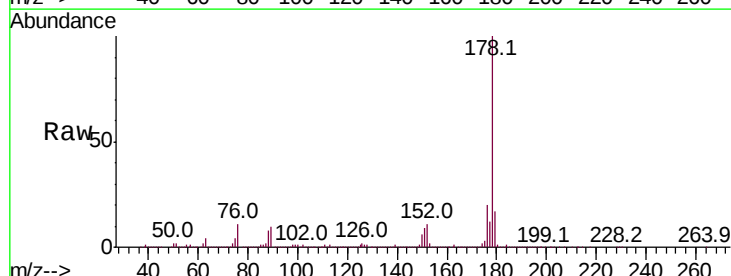


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

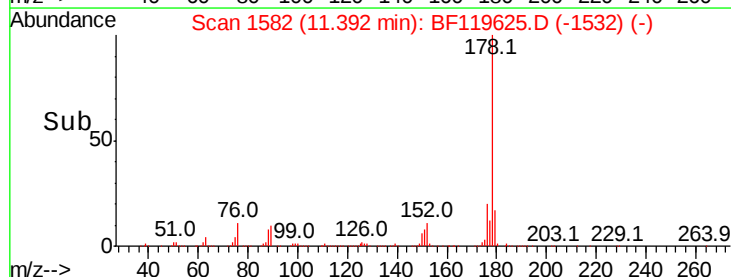
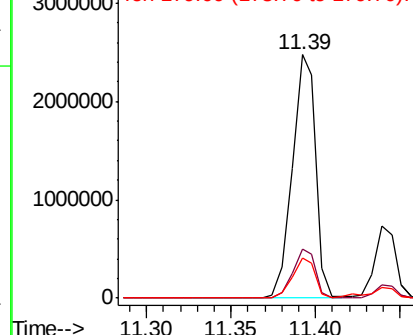


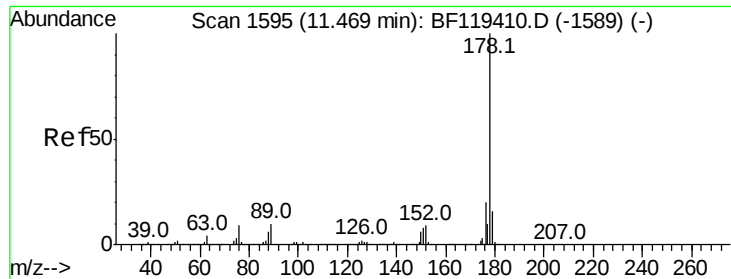
#71
 Phenanthrene
 Concen: 69.216 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: BF119625.D
 Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2386381		
176	20.3	16.2	24.4	
179	16.7	13.2	19.8	



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: 17.929 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF119625.D

Acq: 28 Mar 2020 19:04

Instrument :

BNA_F

ClientSampleId :

RO-11986

Tot Ion:178 Resp: 628229

Ion Ratio Lower Upper

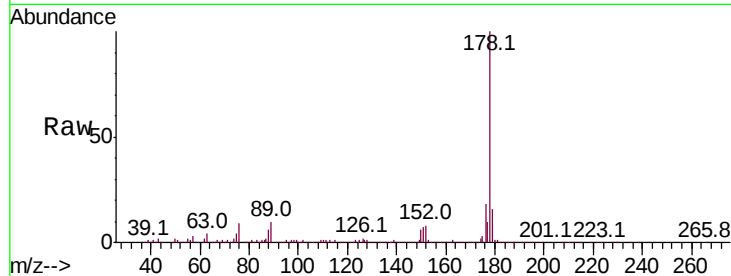
178 100

176 17.9 16.1 24.1

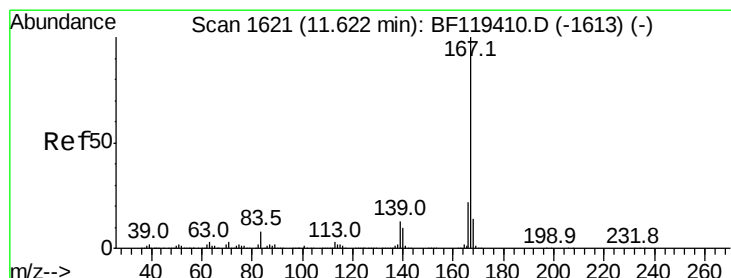
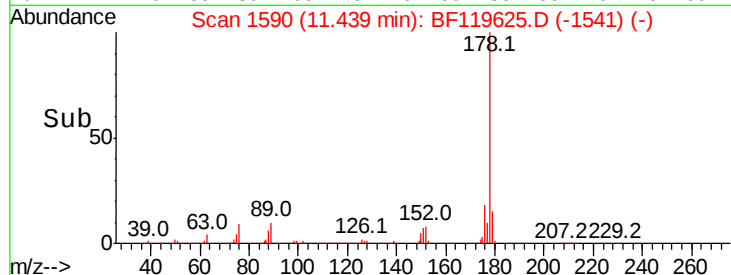
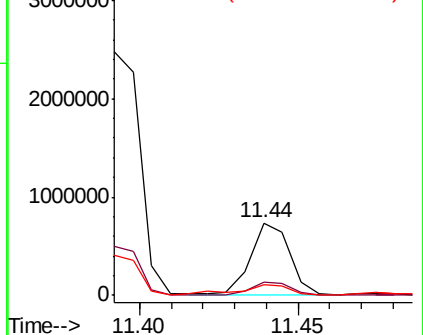
179 15.5 13.0 19.4

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



#73

Carbazole

Concen: 3.906 ng

RT: 11.59 min Scan# 1616

Delta R.T. -0.01 min

Lab File: BF119625.D

Acq: 28 Mar 2020 19:04

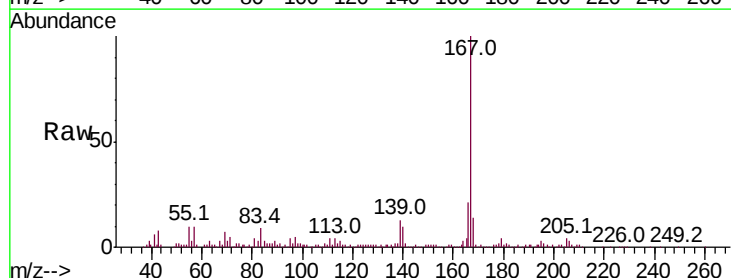
Tgt Ion:167 Resp: 135484

Ion Ratio Lower Upper

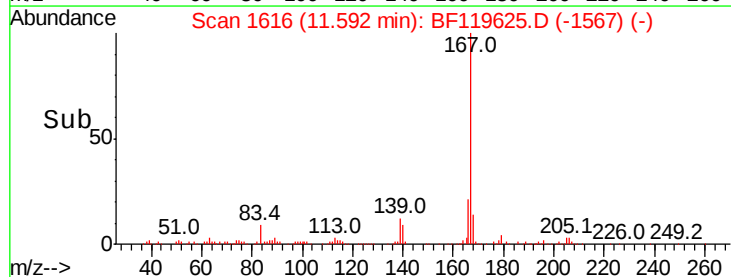
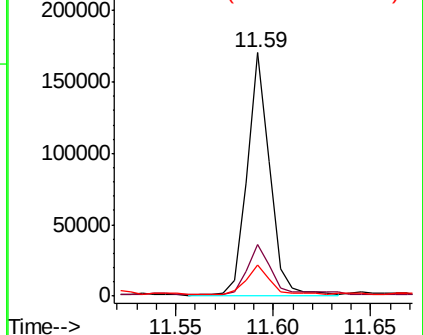
167 100

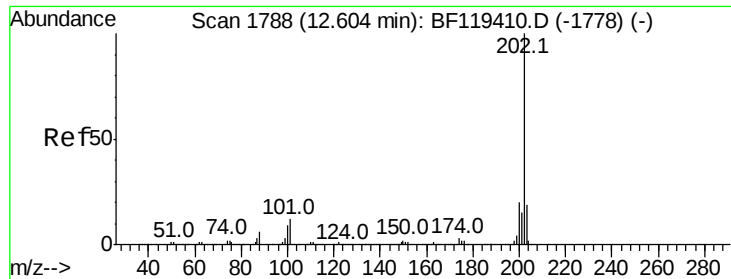
166 21.2 18.2 27.4

139 12.9 10.7 16.1



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





#75

Fluoranthene

Concen: 56.378 ng

RT: 12.59 min Scan# 1785

Delta R.T. -0.00 min

Lab File: BF119625.D

Acq: 28 Mar 2020 19:04

Instrument :

BNA_F

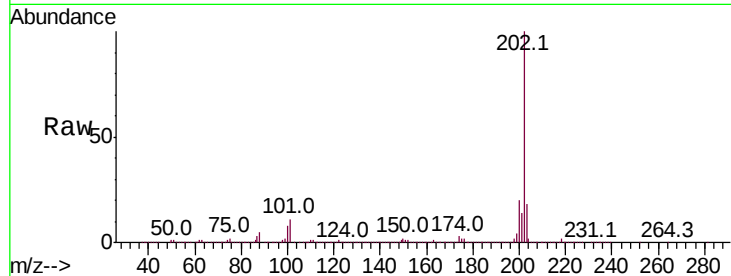
ClientSampled :

RO-11986

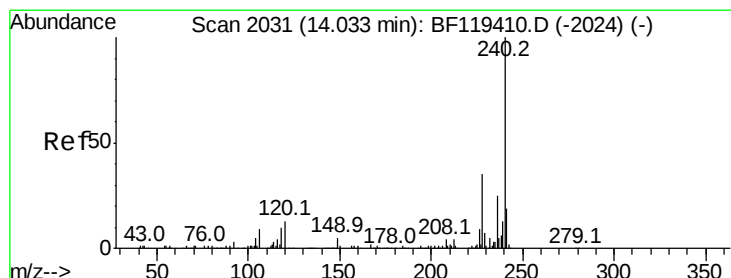
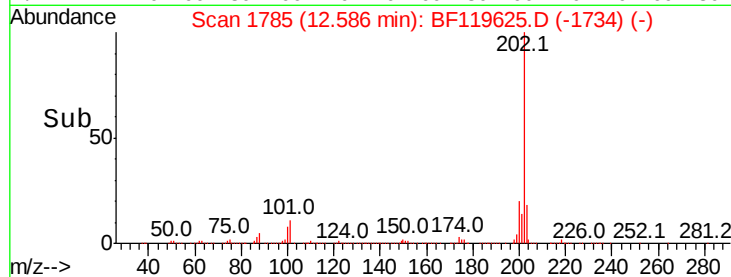
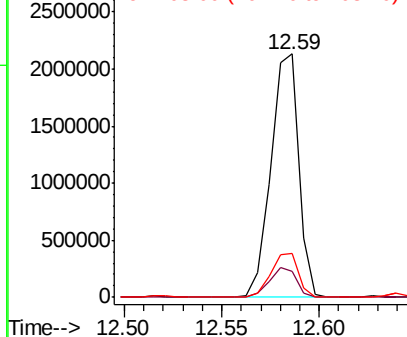
Tot Ion:	202	Resp:	2103618
Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	32.2
203	18.0	0.0	38.8

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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.01 min Scan# 2027

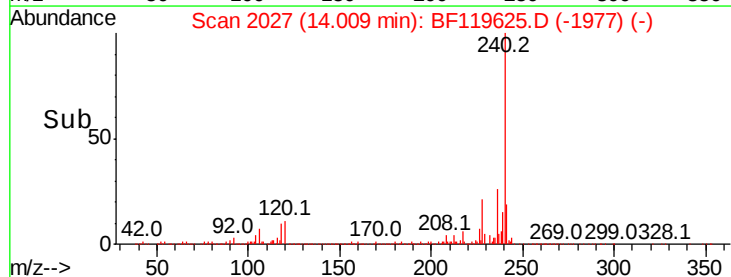
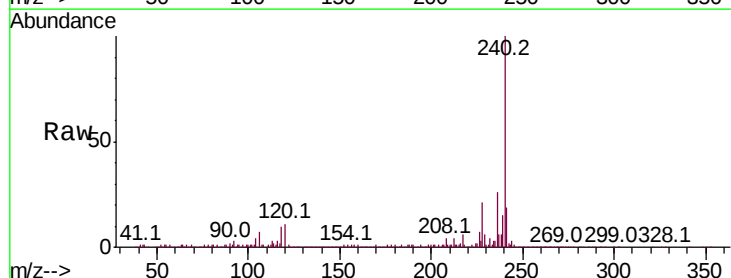
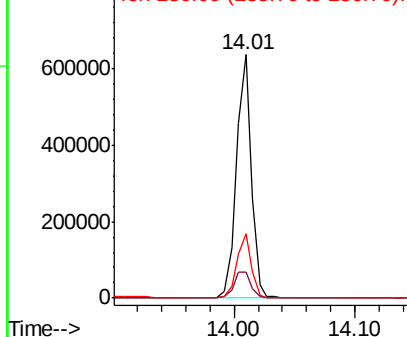
Delta R.T. -0.01 min

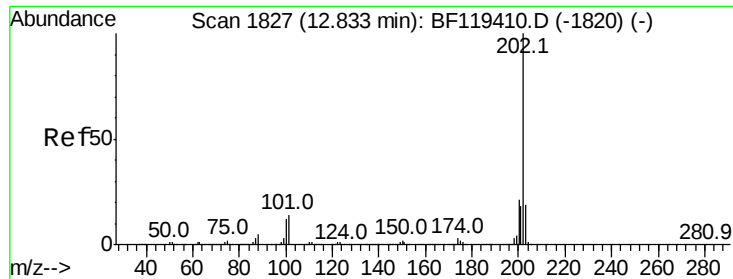
Lab File: BF119625.D

Acq: 28 Mar 2020 19:04

Tgt Ion:	240	Resp:	547970
Ion	Ratio	Lower	Upper
240	100		
120	10.7	10.6	15.8
236	26.3	20.2	30.2

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





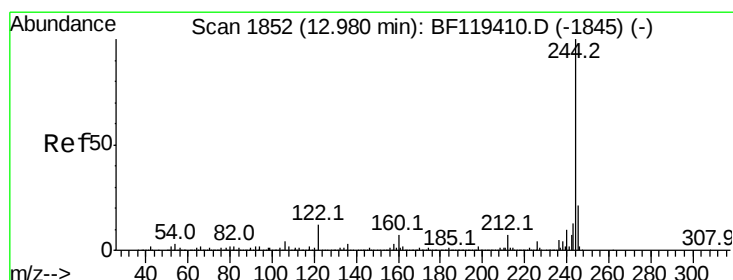
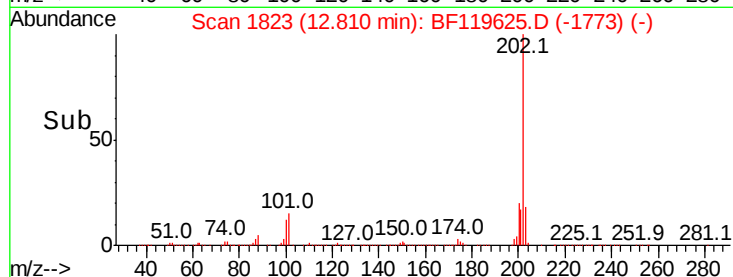
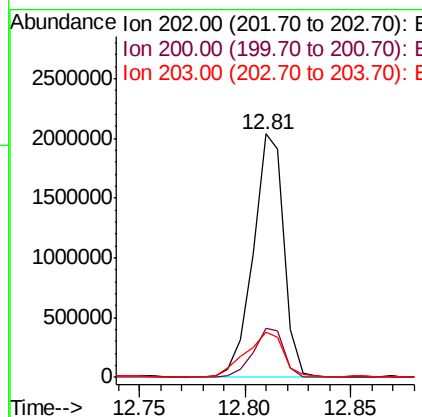
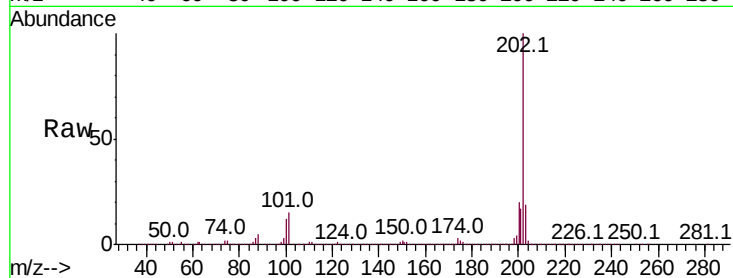
#78
Pvrene
Concen: 45.592 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Instrument :
BNA_F
ClientSampled :
RO-11986

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.8	25.2
203	18.7	15.1	22.7

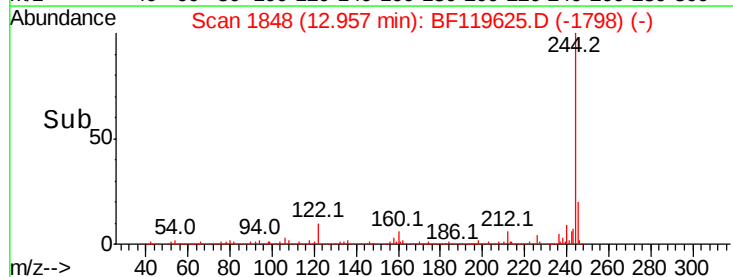
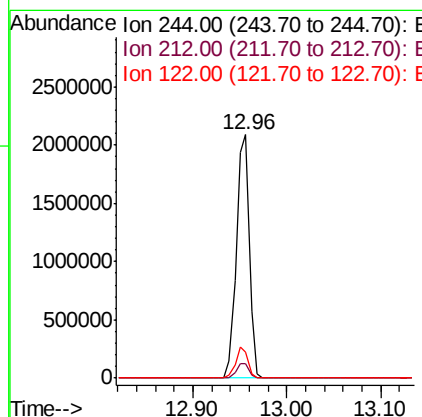
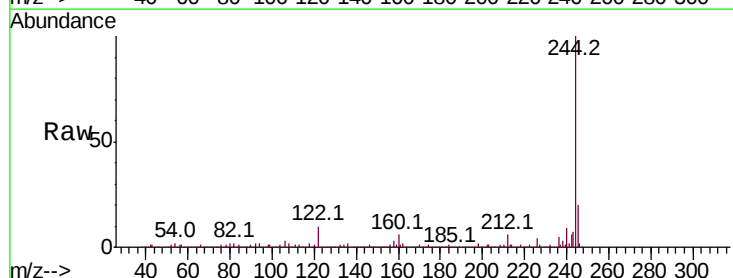
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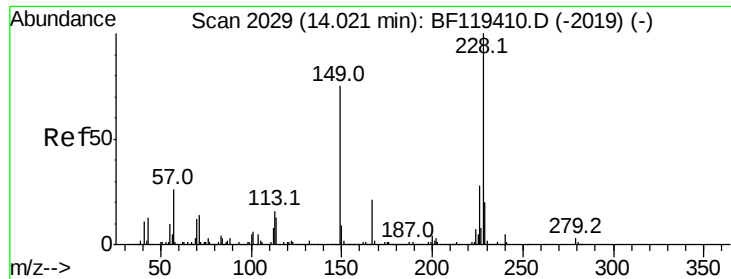
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#79
Terphenyl-d14
Concen: 71.555 ng
RT: 12.96 min Scan# 1848
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.1	5.8	8.8
122	10.5	10.3	15.5





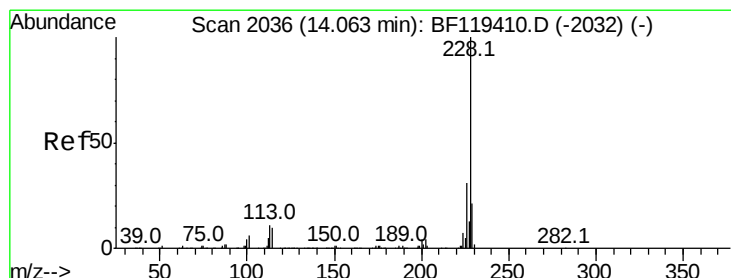
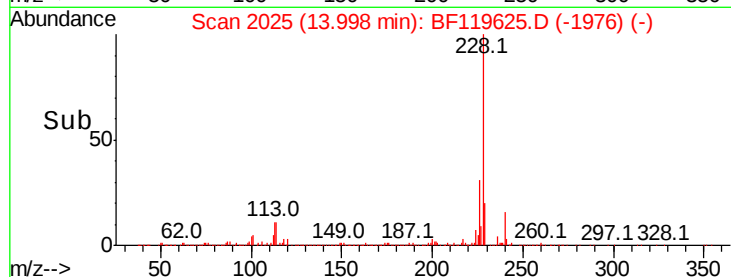
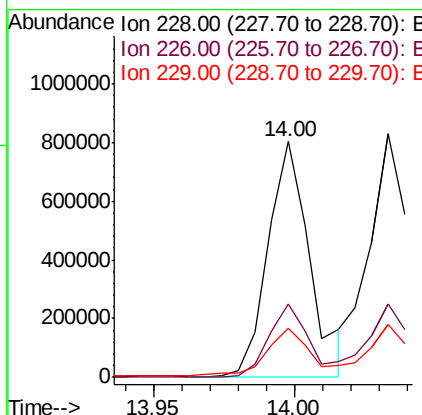
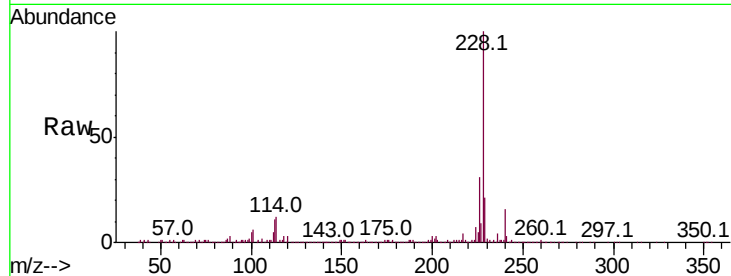
#81
Benzo(a)anthracene
Concen: 23.012 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Instrument :
BNA_F
ClientSampleId :
RO-11986

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.1	21.8	32.8
229	20.6	16.2	24.4

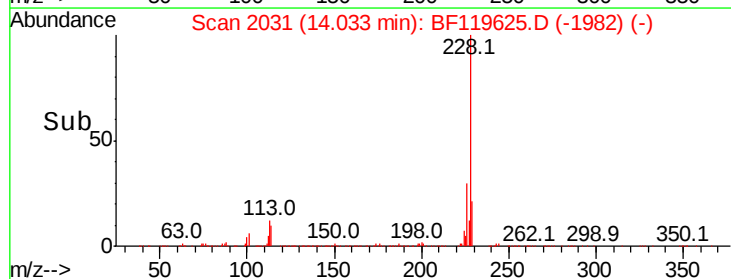
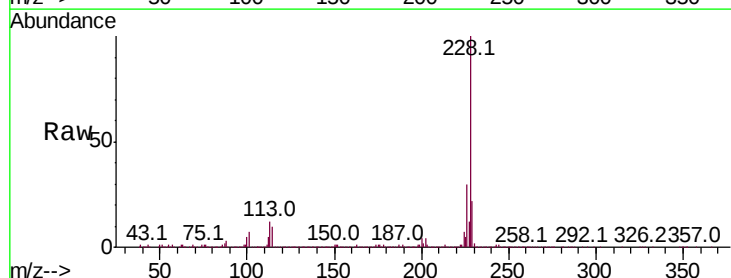
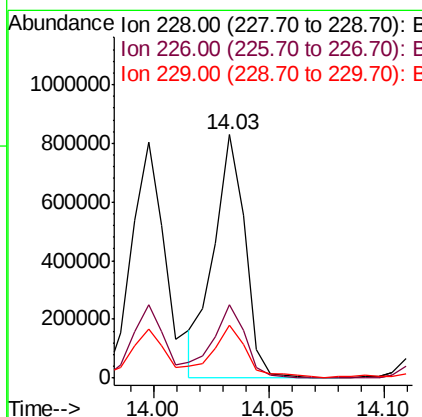
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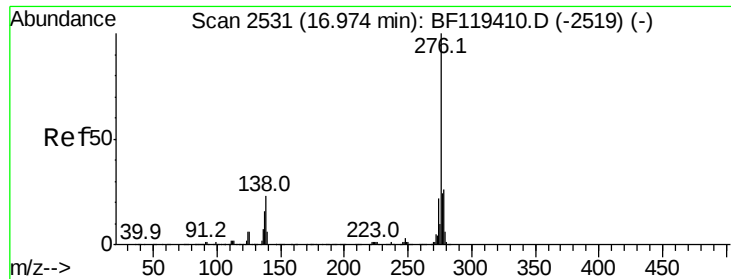
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#83
Chrysene
Concen: 21.056 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.4	38.0
229	21.7	16.6	24.8





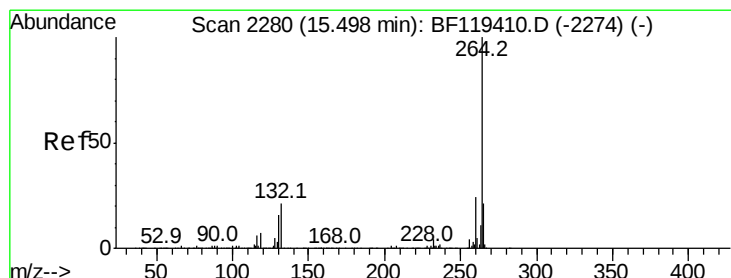
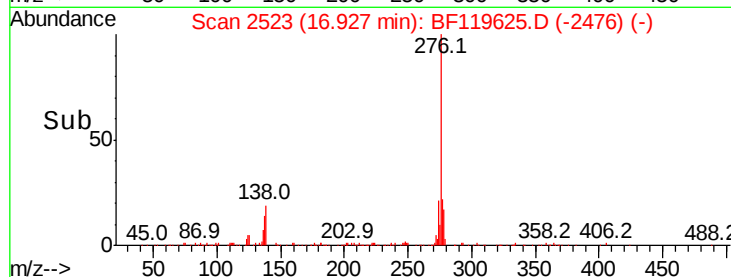
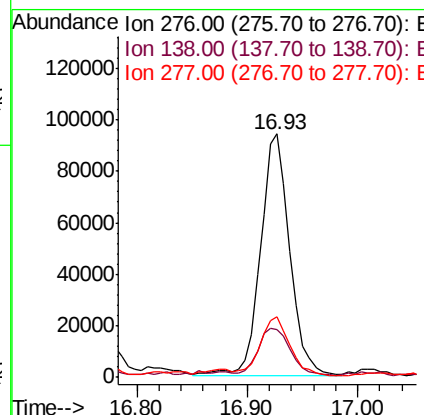
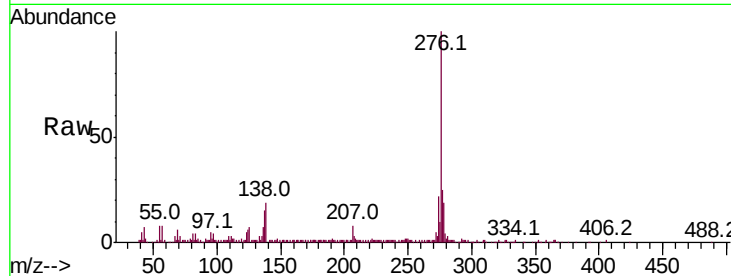
#86
Indeno(1,2,3-cd)pyrene
Concen: 5.000 ng
RT: 16.93 min Scan# 2523
Delta R.T. -0.02 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Instrument :
BNA_F
ClientSampleId :
RO-11986

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.8	19.6	29.4
277	25.0	20.0	30.0

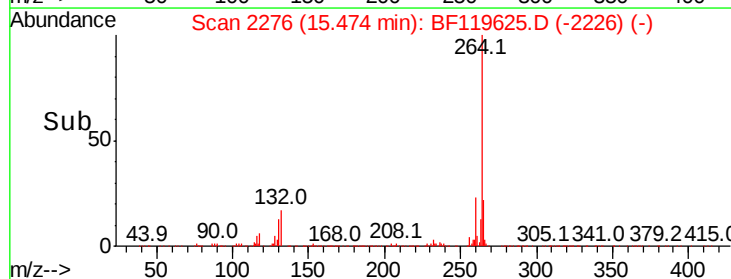
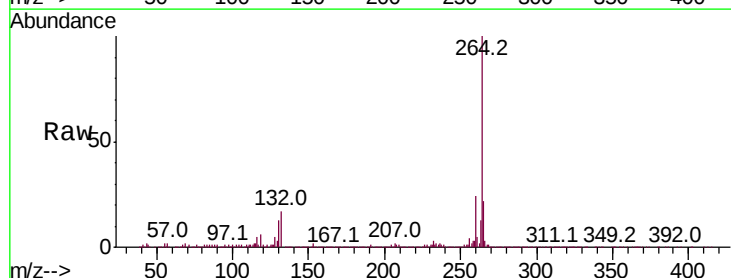
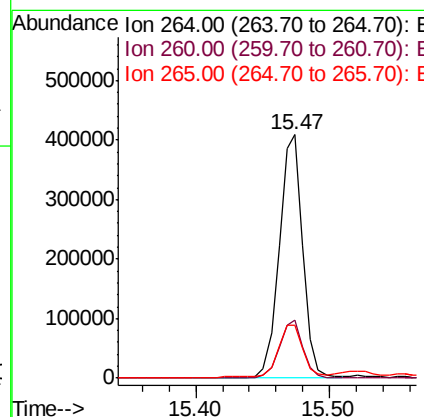
Manual Integrations
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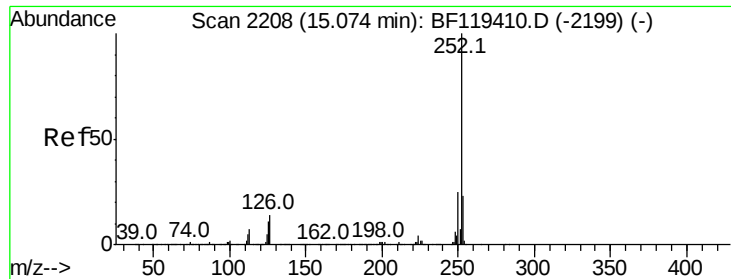
mohammad
3/31/2020 8:14:57 AM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2276
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.7	28.1
265	21.8	17.7	26.5





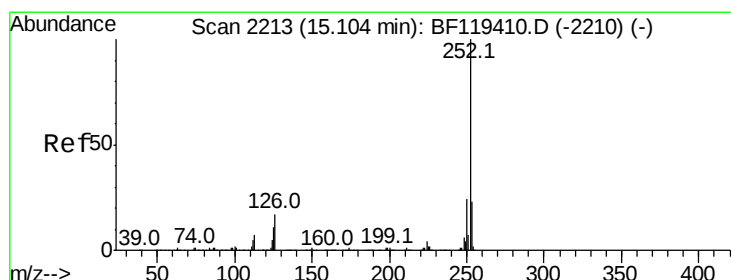
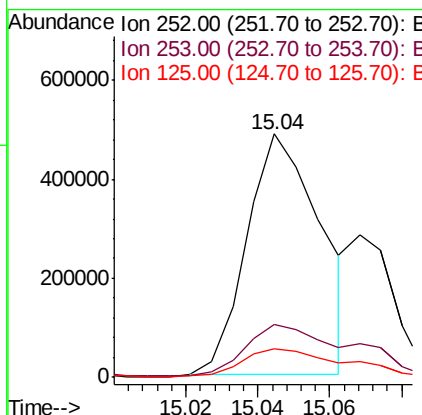
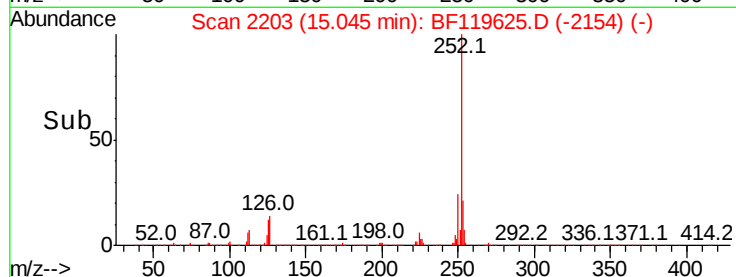
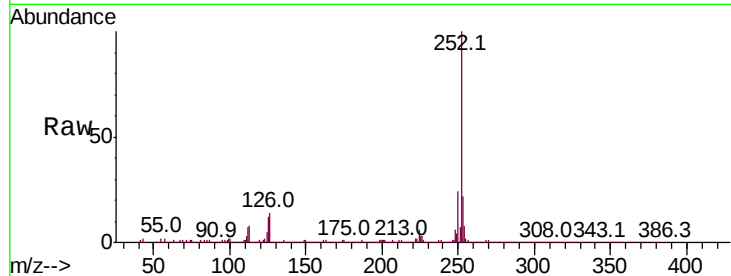
#88
Benzo(b)fluoranthene
Concen: 20.754 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Instrument :
BNA_F
ClientSampleId :
RO-11986

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	11.9	7.9	11.9

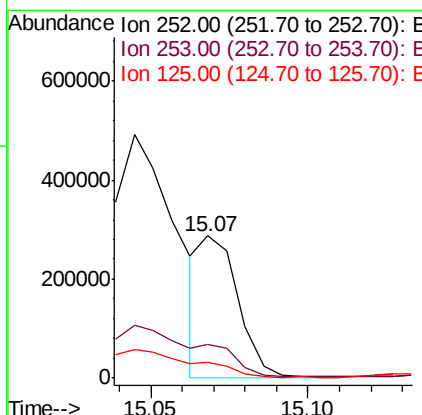
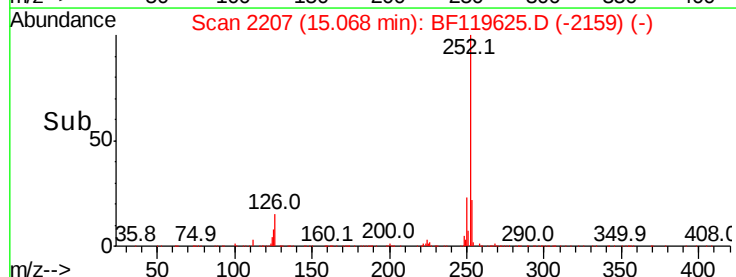
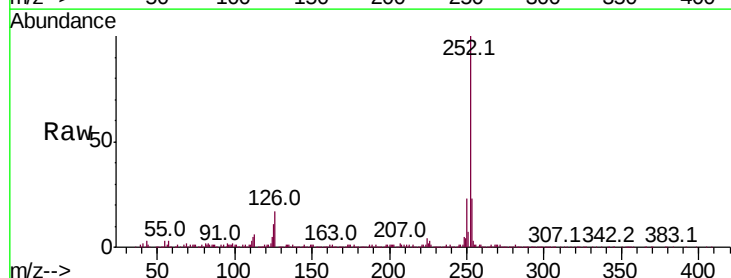
Manual Integrations
APPROVED

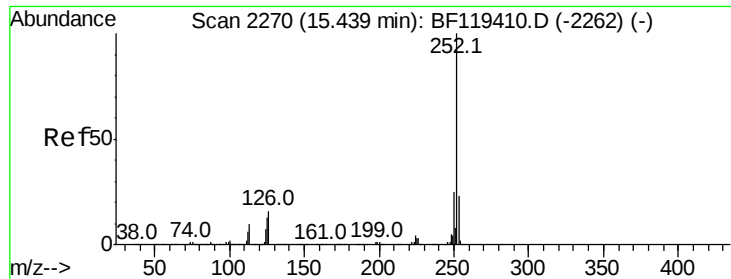
mohammad
3/31/2020 8:14:57 AM



#89
Benzo(k)fluoranthene
Concen: 7.444 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.02 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.6
125	10.9	8.4	12.6





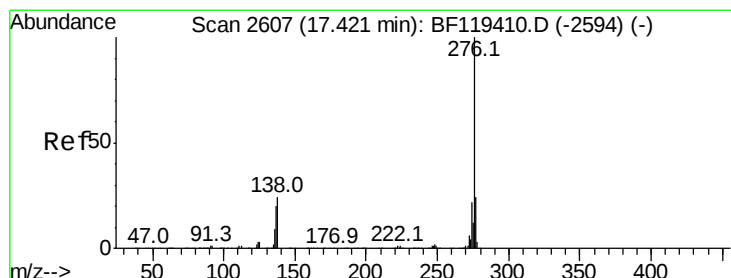
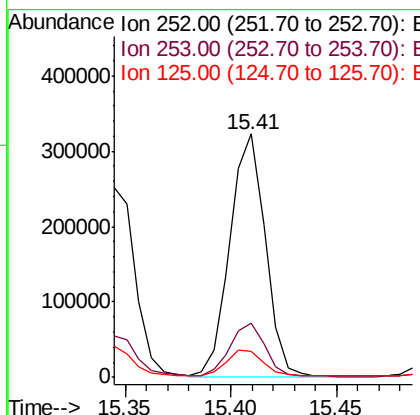
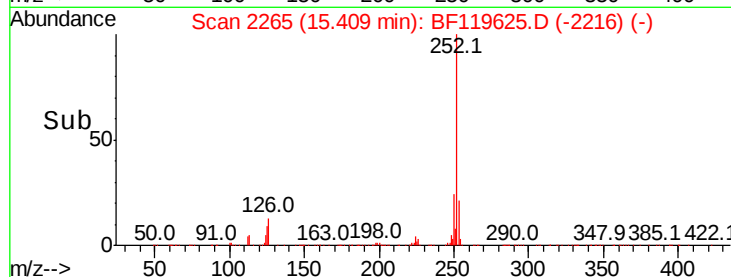
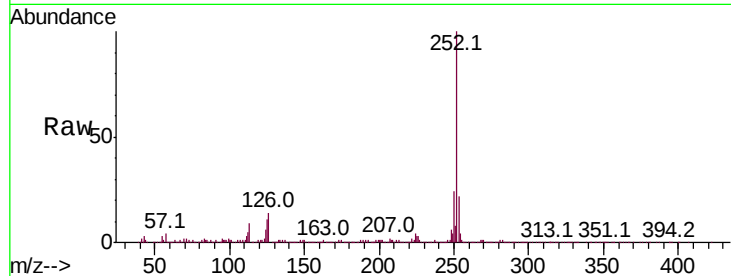
#90
Benzo(a)pyrene
Concen: 12.211 ng
RT: 15.41 min Scan# 2265
Delta R.T. -0.01 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Instrument :
BNA_F
ClientSampleId :
RO-11986

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.2	27.2
125	10.8	9.4	14.2

Manual Integrations
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3/31/2020 8:14:57 AM



#92
Benzo(g,h,i)perylene
Concen: 5.343 ng
RT: 17.37 min Scan# 2598
Delta R.T. -0.03 min
Lab File: BF119625.D
Acq: 28 Mar 2020 19:04

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.1	18.4	27.6
138	20.0	15.4	23.0

