

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
 Data File : BF115879.D
 Acq On : 31 Jul 2019 21:13
 Operator : HP/JU
 Sample : K4049-10
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-10

Manual Integrations
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Quant Time: Aug 01 07:38:10 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	142475	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	528057	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	267604	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	397804	20.00	ng	0.00
76) Chrysene-d12	14.03	240	285825	20.00	ng	0.00
87) Perylene-d12	15.51	264	341299	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	795458	93.47	ng	0.00
7) Phenol-d6	6.49	99	1030257	95.95	ng	0.00
23) Nitrobenzene-d5	7.41	82	637540	69.69	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	227137	87.55	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	1102594	77.18	ng	0.00
79) Terphenyl-d14	12.97	244	901834	66.49	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.15	128	69794	2.809	ng	99
49) Acenaphthylene	9.75	152	92384	4.027	ng	99
50) Dimethylphthalate	9.60	163	191691	10.520	ng	99
52) Acenaphthene	9.92	154	33243	2.362	ng	99
55) Dibenzofuran	10.10	168	41541	2.030	ng	98
58) Fluorene	10.44	166	36755	2.334	ng	98
71) Phenanthrene	11.40	178	711218	34.972	ng	99
72) Anthracene	11.46	178	162208	7.881	ng	99
73) Carbazole	11.61	167	80780	4.326	ng	99
75) Fluoranthene	12.60	202	1180678	55.456	ng	99
78) Pyrene	12.83	202	1095048	50.824	ng	99
81) Benzo(a)anthracene	14.02	228	619987	33.937	ng	95
83) Chrysene	14.06	228	550671	31.048	ng	97
86) Indeno(1,2,3-cd)pyrene	16.99	276	290921	19.529	ng	97
88) Benzo(b)fluoranthene	15.08	252	766209m	38.826	ng	
89) Benzo(k)fluoranthene	15.10	252	233358m	12.141	ng	
90) Benzo(a)pyrene	15.45	252	518804	29.409	ng	97
91) Dibenzo(a,h)anthracene	16.99	278	73905	4.840	ng	# 77
92) Benzo(a,h,i)perylene	17.43	276	262425	17.499	ng	99

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

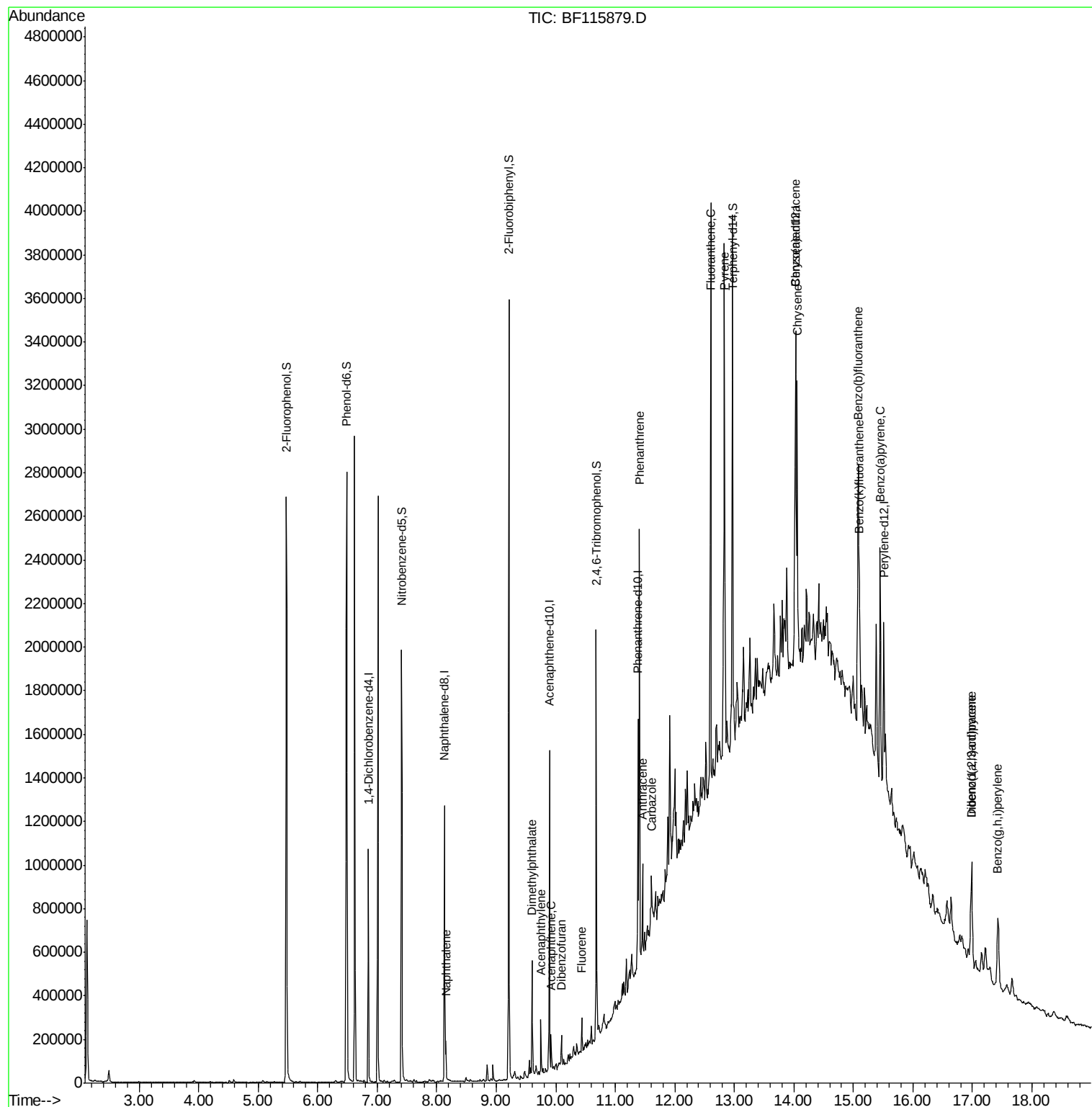
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073119\
Data File : BF115879.D
Acq On : 31 Jul 2019 21:13
Operator : HP/JU
Sample : K4049-10
Misc :
ALS Vial : 11 Sample Multiplier: 1

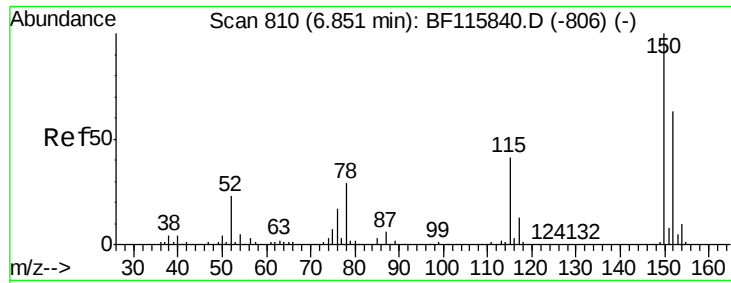
Instrument :
BNA_F
ClientSampleId :
SP-10

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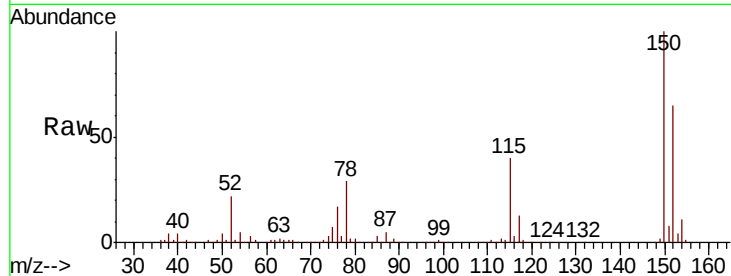
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: BF115879.D
 Acq: 31 Jul 2019 21:13

Instrument :
 BNA_F
 ClientSampleId :
 SP-10

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.7	127.4	191.0
115	61.3	51.8	77.8

Manual Integrations
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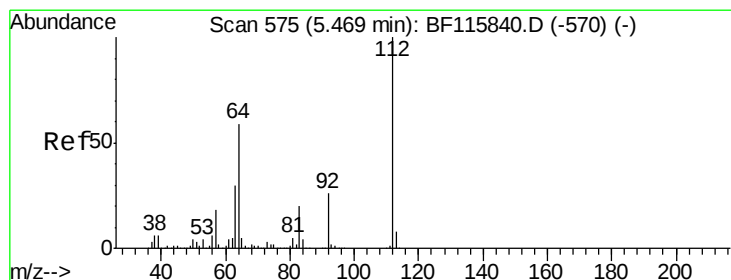
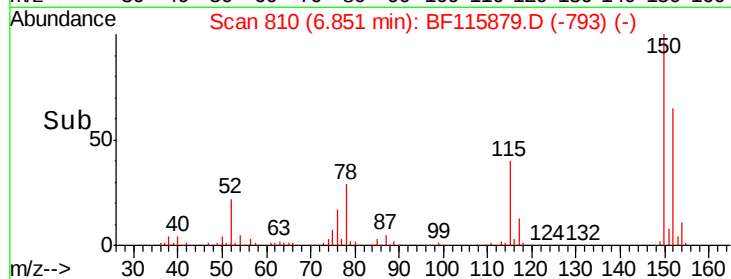
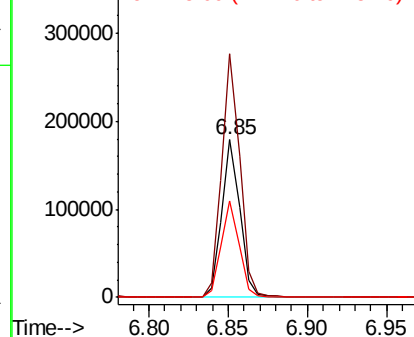


Abundance

Ion 152.00 (151.70 to 152.70): E

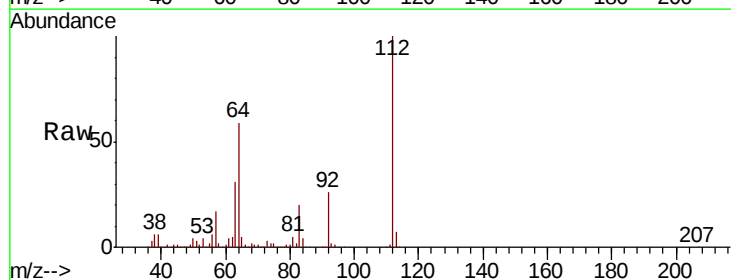
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 93.465 ng
 RT: 5.47 min Scan# 576
 Delta R.T. 0.01 min
 Lab File: BF115879.D
 Acq: 31 Jul 2019 21:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.7	46.8	70.2
63	30.6	24.2	36.2

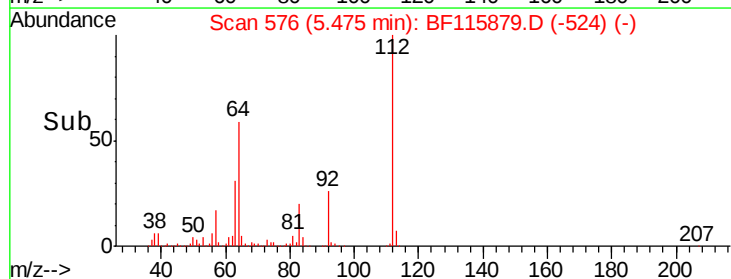
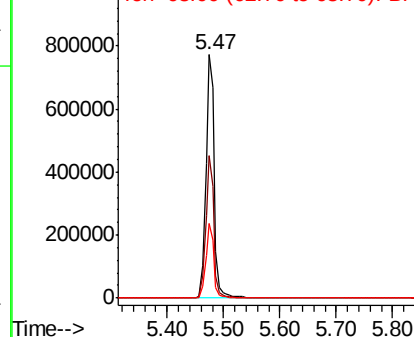


Abundance

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: 95.947 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.00 min

Lab File: BF115879.D

Acq: 31 Jul 2019 21:13

Instrument :

BNA_F

ClientSampleId :

SP-10

Tot Ion: 99 Resp: 1030257

Ion Ratio Lower Upper

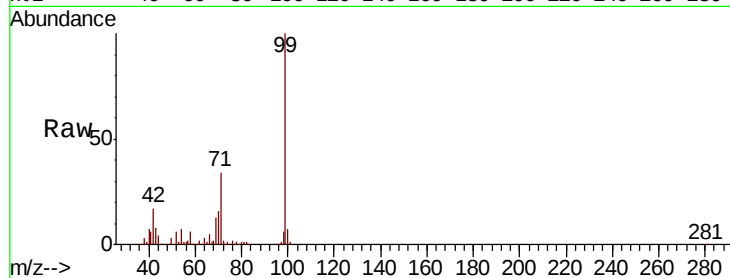
99 100

42 16.9 13.8 20.6

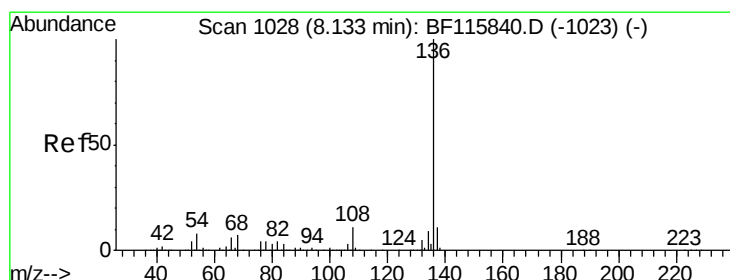
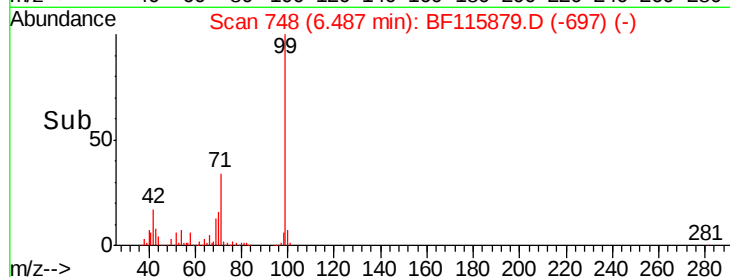
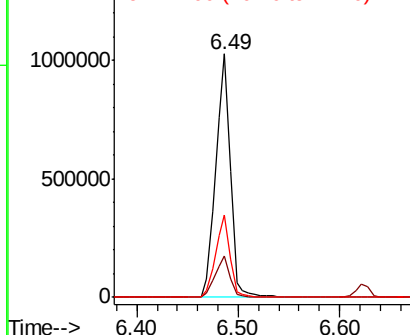
71 33.7 27.1 40.7

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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: 8.13 min Scan# 1028

Delta R.T. 0.00 min

Lab File: BF115879.D

Acq: 31 Jul 2019 21:13

Tgt Ion: 136 Resp: 528057

Ion Ratio Lower Upper

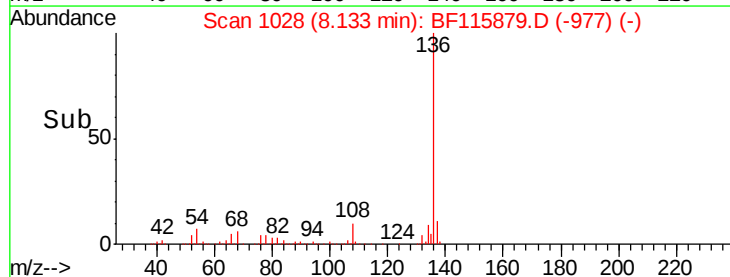
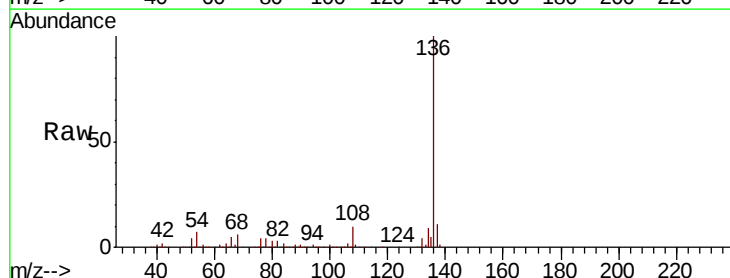
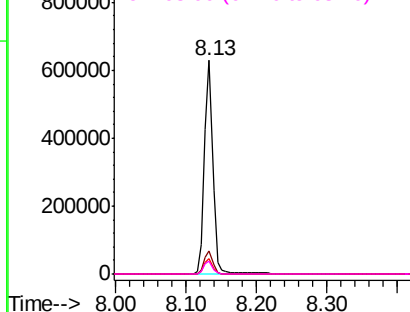
136 100

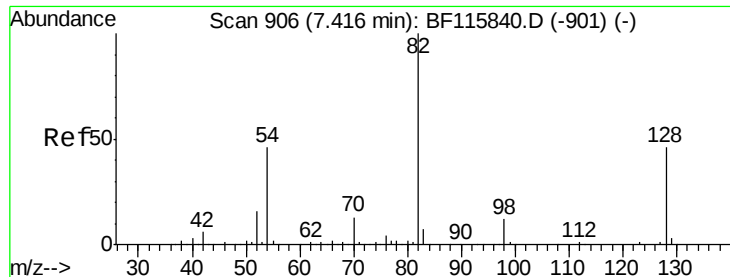
137 11.1 9.1 13.7

54 7.0 6.1 9.1

68 6.0 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





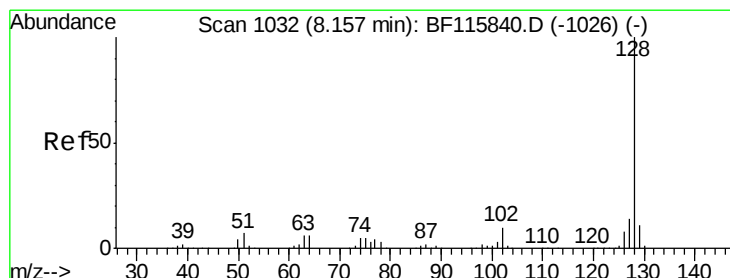
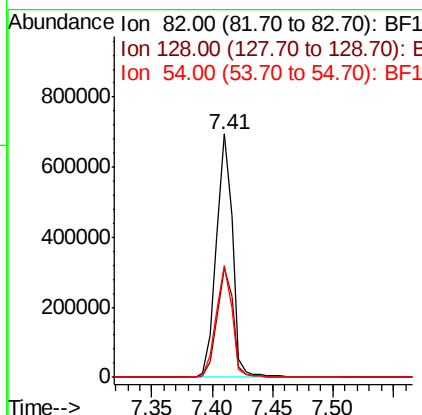
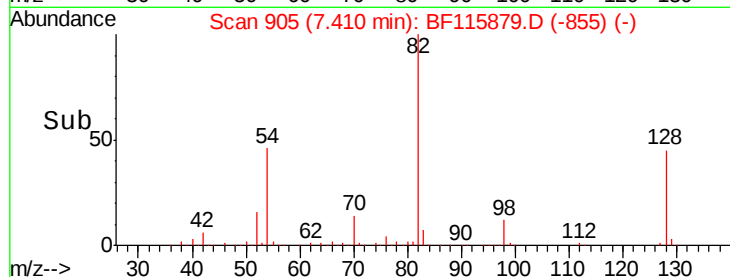
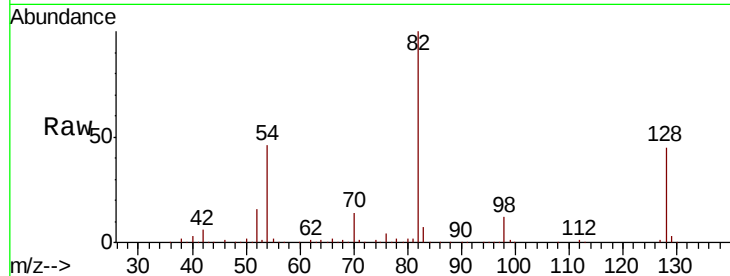
#23
Nitrobenzene-d5
Concen: 69.691 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Instrument :
BNA_F
ClientSampled :
SP-10

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.9	36.6	55.0
54	46.1	36.6	55.0

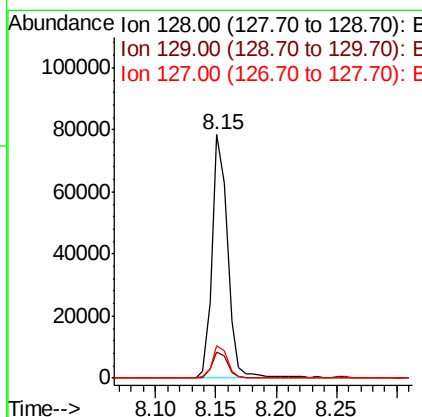
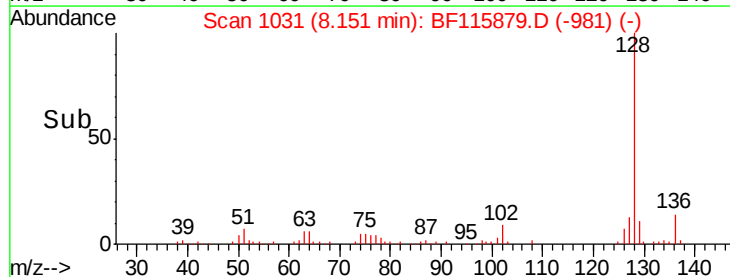
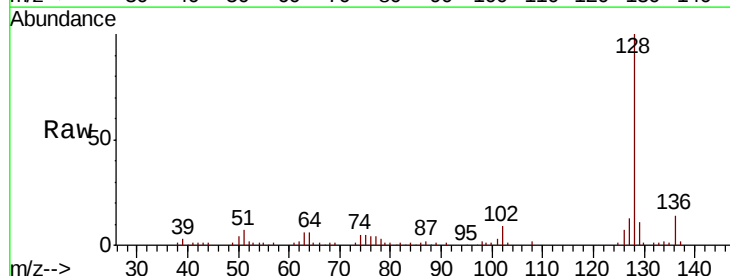
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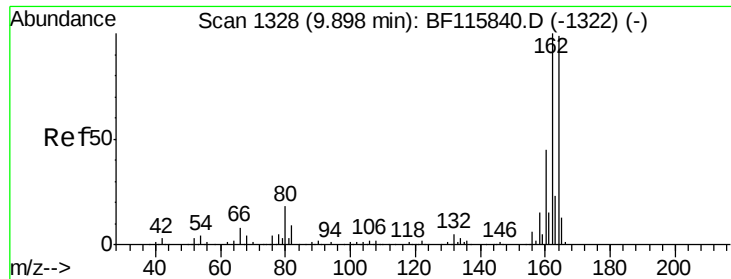
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#31
Naphthalene
Concen: 2.809 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.2	13.8
127	13.5	11.0	16.4





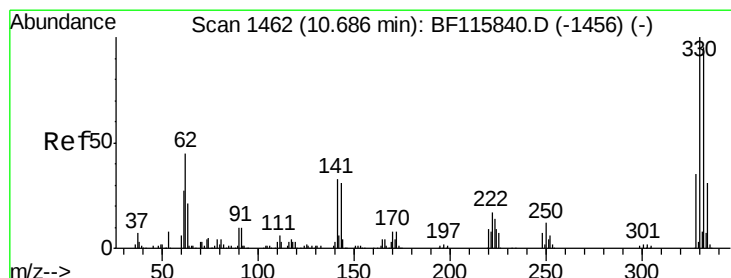
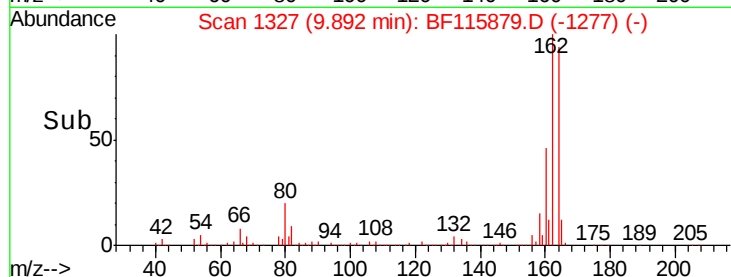
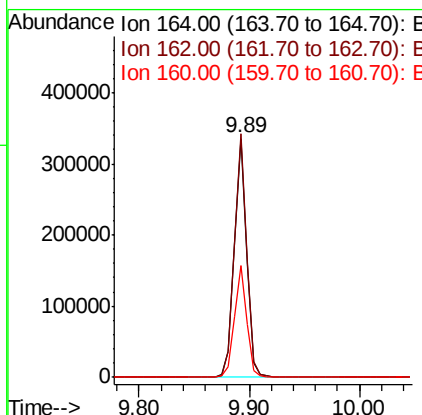
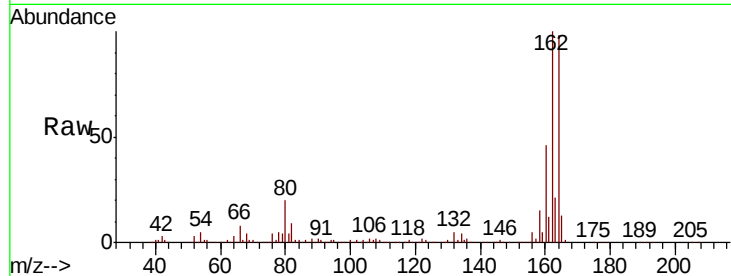
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Instrument :
BNA_F
ClientSampled :
SP-10

Tot Ion	Ratio	Resp	Lower	Upper
164	100	267604		
162	101.8	80.8	121.2	
160	46.9	36.2	54.4	

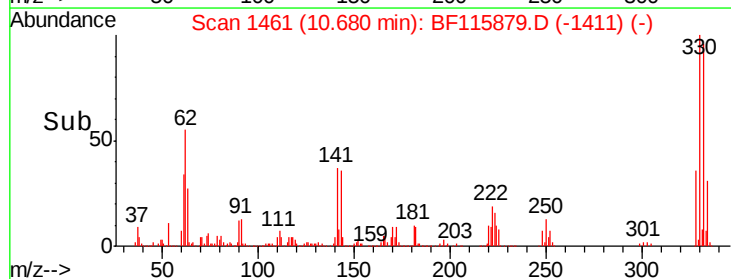
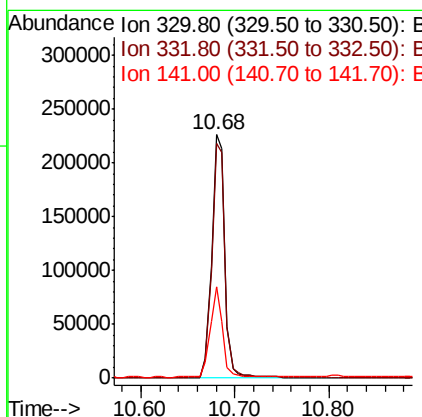
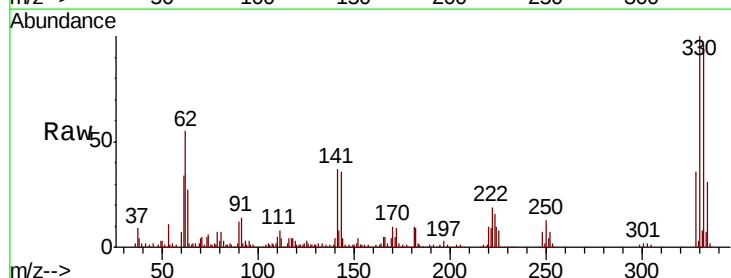
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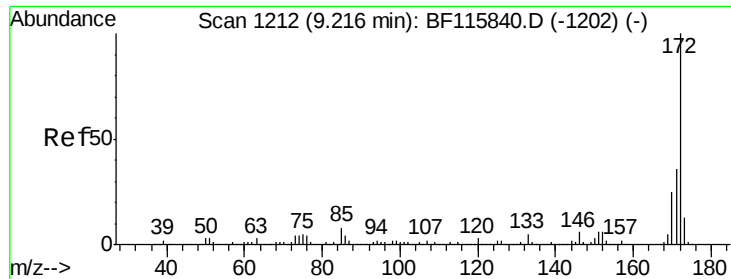
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#42
2,4,6-Tribromophenol
Concen: 87.546 ng
RT: 10.68 min Scan# 1461
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	227137		
332	97.0	77.7	116.5	
141	34.7	28.1	42.1	





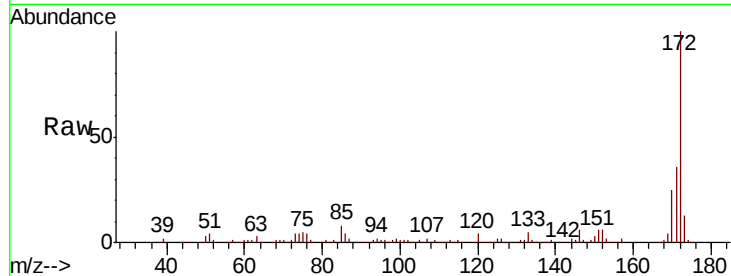
#45
2-Fluorobiphenyl
Concen: 77.175 ng
RT: 9.21 min Scan# 1211
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Instrument :
BNA_F
ClientSampleId :
SP-10

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.1	43.7
170	24.7	20.1	30.1

Manual Integrations
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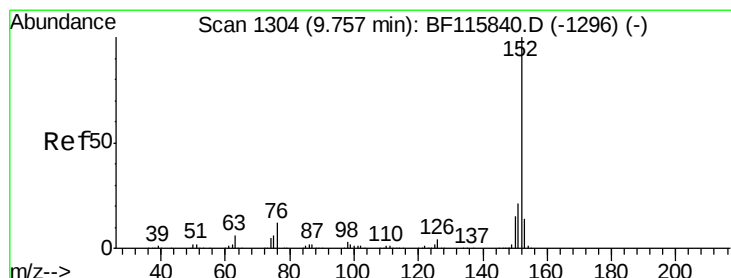
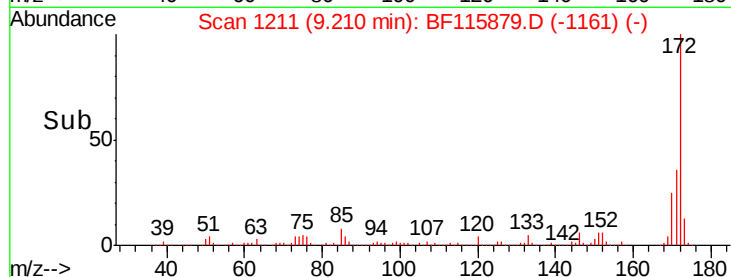
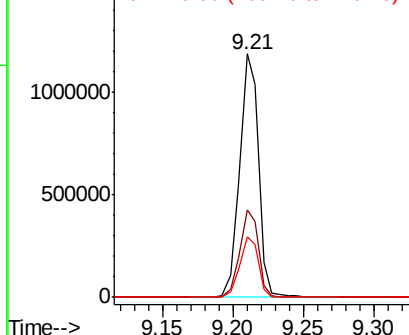


Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
Acenaphthylene
Concen: 4.027 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

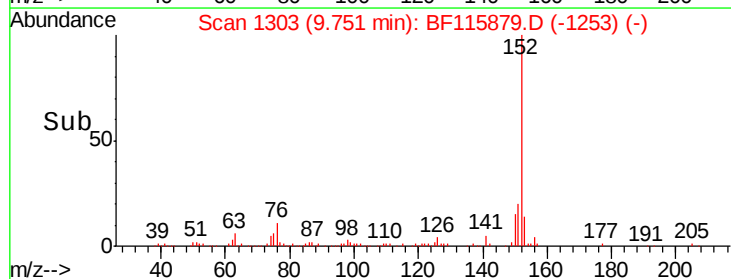
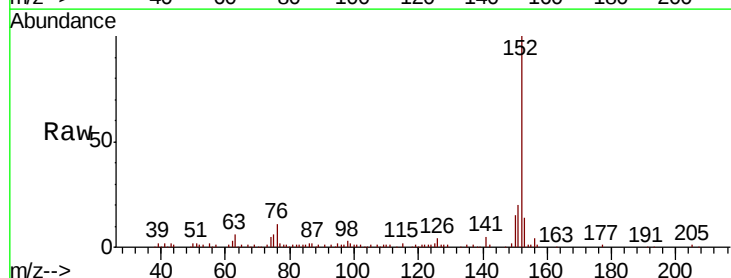
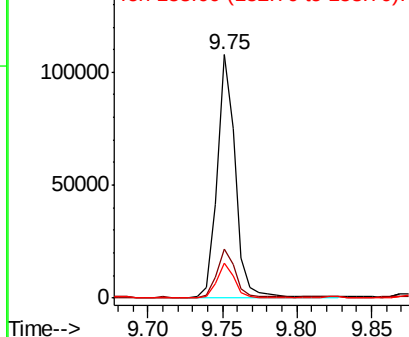
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.8	25.2
153	14.3	11.6	17.4

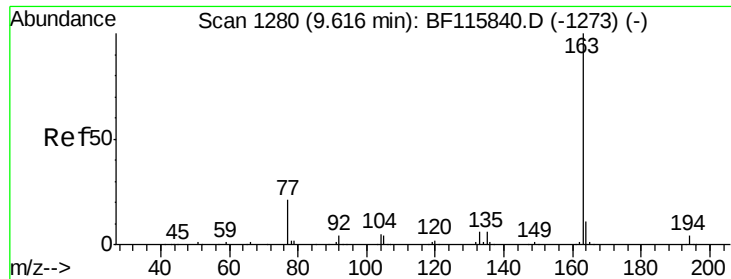
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





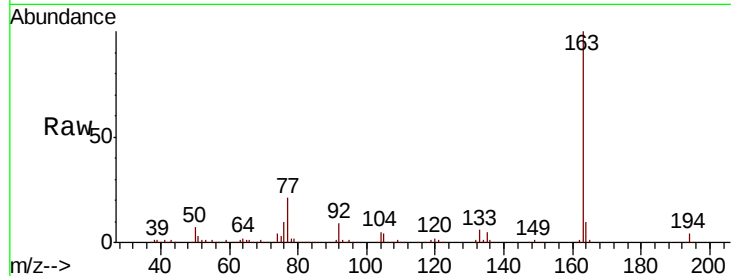
#50
Dimethylphthalate
Concen: 10.520 ng
RT: 9.60 min Scan# 1278
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Instrument :
BNA_F
ClientSampleId :
SP-10

Tot Ion	Ratio	Resp	Lower	Upper
163	100	191691		
194	3.6		3.0	4.6
164	10.0		8.4	12.6

Manual Integrations
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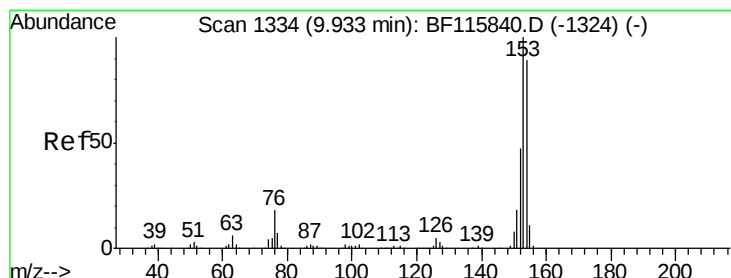
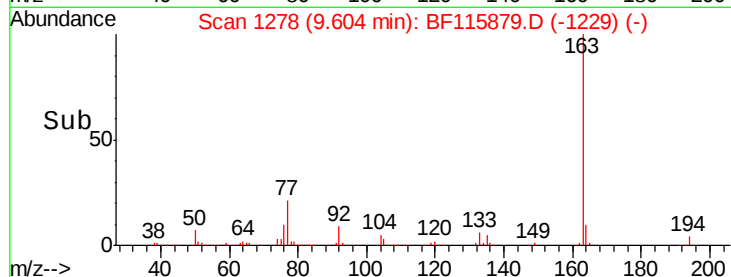
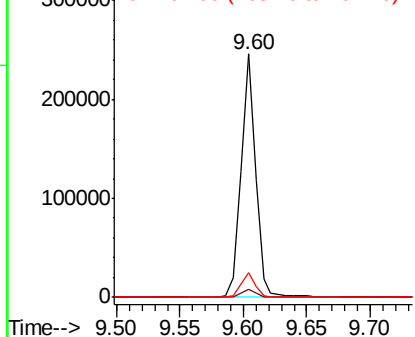


Abundance

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: 2.362 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

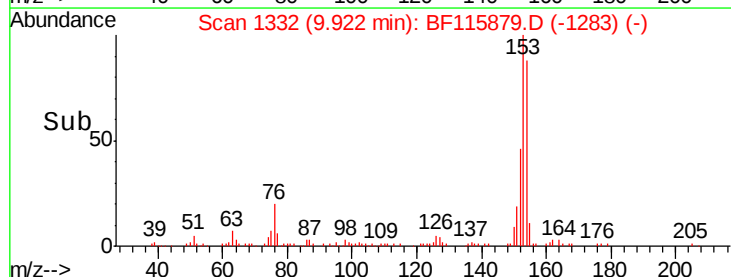
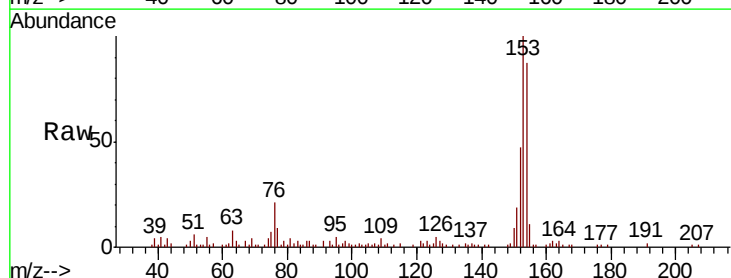
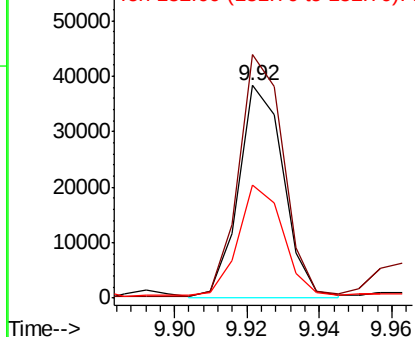
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	33243		
153	114.4		90.1	135.1
152	53.2		42.6	63.8

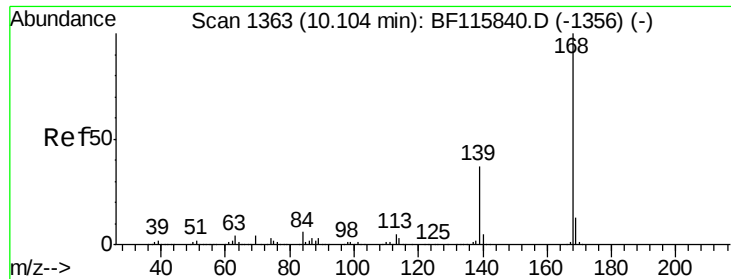
Abundance

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





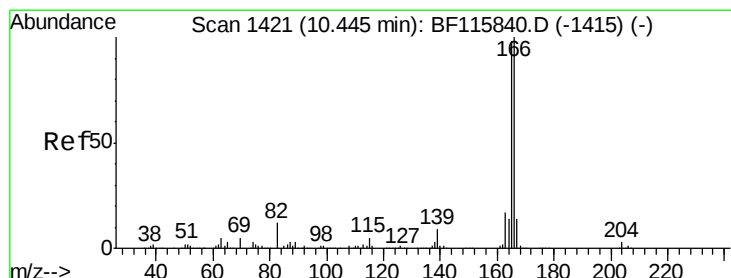
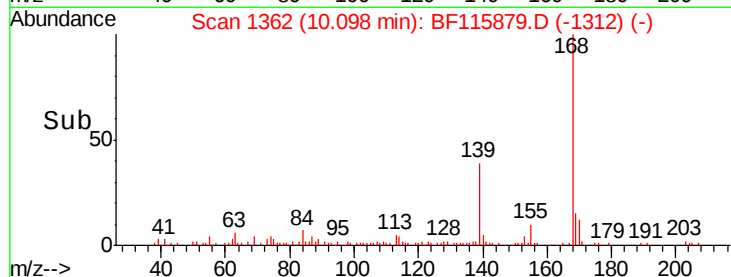
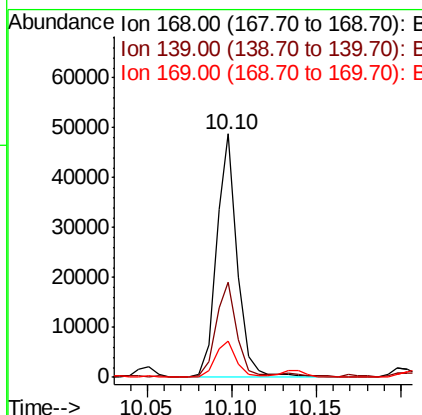
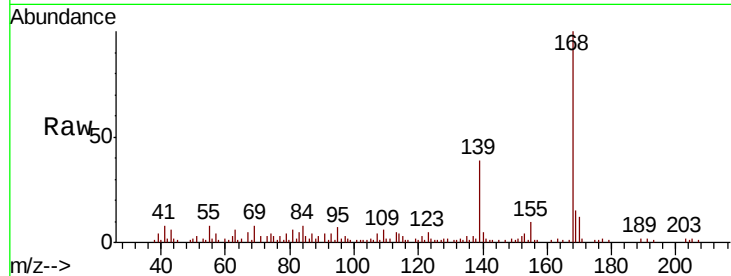
#55
Dibenzofuran
Concen: 2.030 ng
RT: 10.10 min Scan# 1362
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Instrument :
BNA_F
ClientSampleId :
SP-10

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.0	30.2	45.2
169	14.8	10.8	16.2

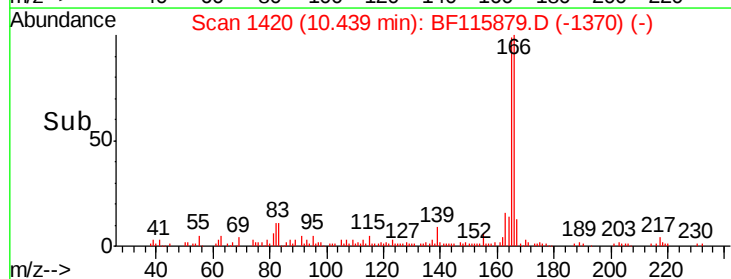
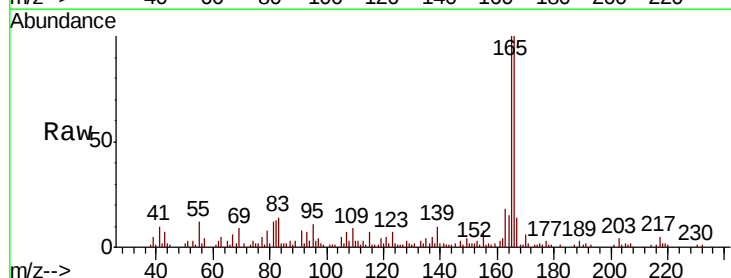
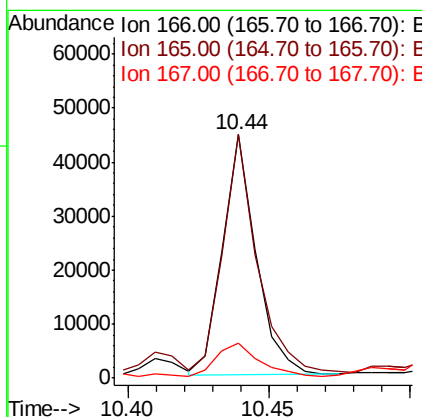
Manual Integrations
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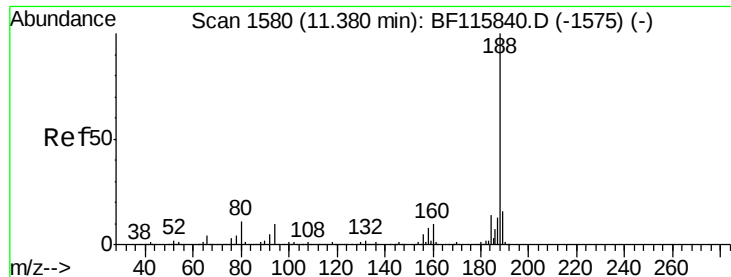
mohammad
8/1/2019 5:07:03 PM



#58
Fluorene
Concen: 2.334 ng
RT: 10.44 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.9	78.6	118.0
167	14.3	10.9	16.3





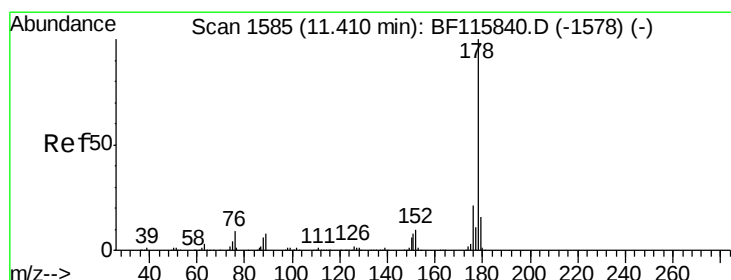
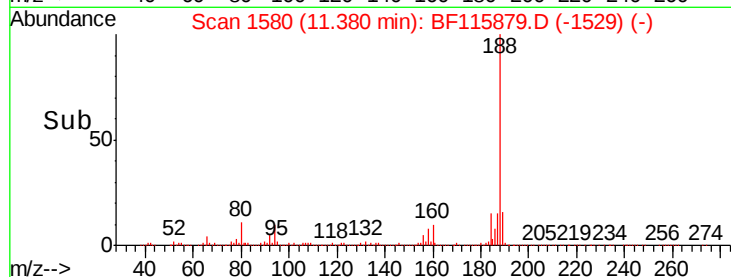
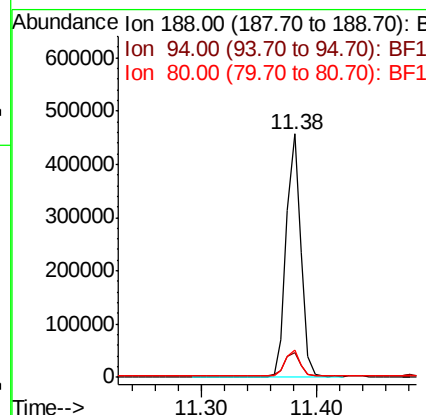
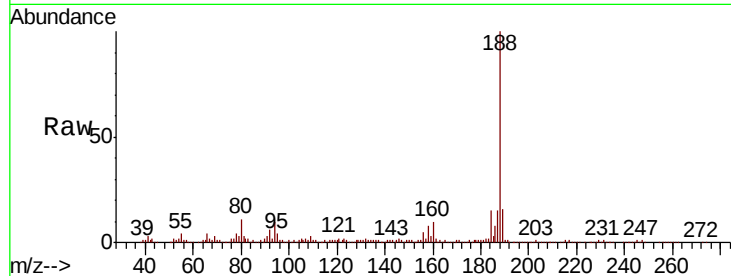
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Instrument :
BNA_F
ClientSampleId :
SP-10

Tot Ion	Ratio	Resp	Lower	Upper
188	100	397804		
94	10.3		8.0	12.0
80	11.0		8.6	12.8

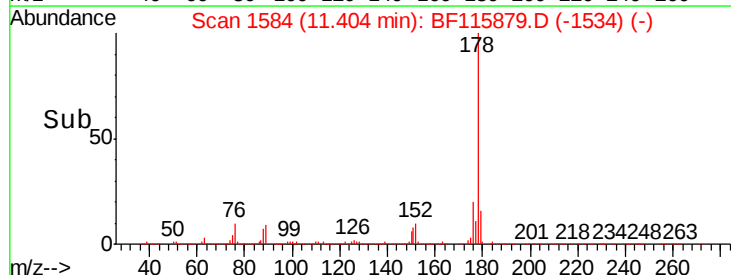
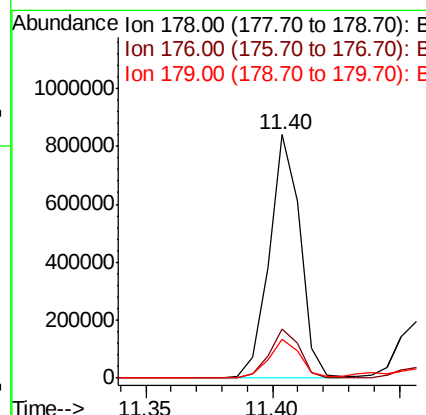
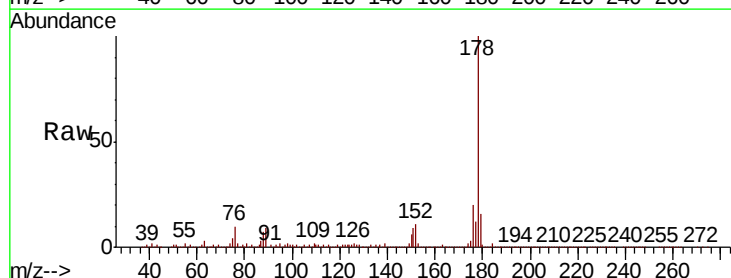
Manual Integrations
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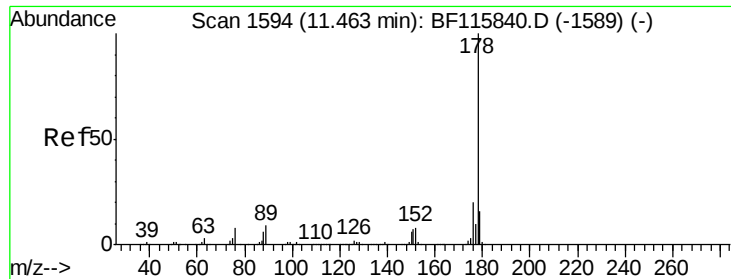
mohammad
8/1/2019 5:07:03 PM



#71
Phenanthrene
Concen: 34.972 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	711218		
176	20.2		16.5	24.7
179	16.0		12.6	18.8





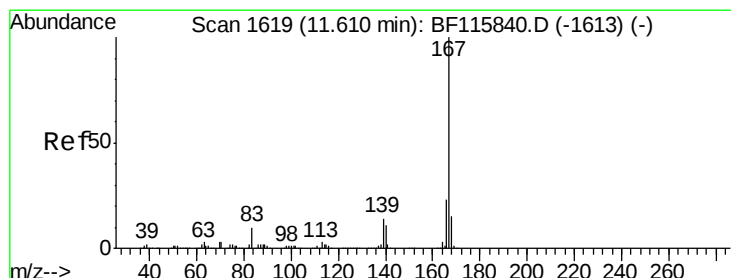
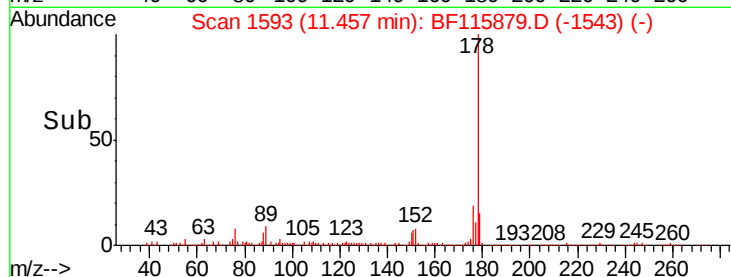
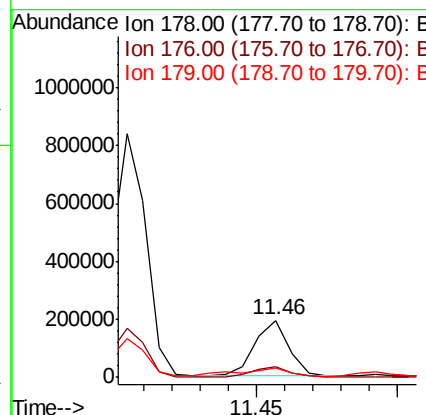
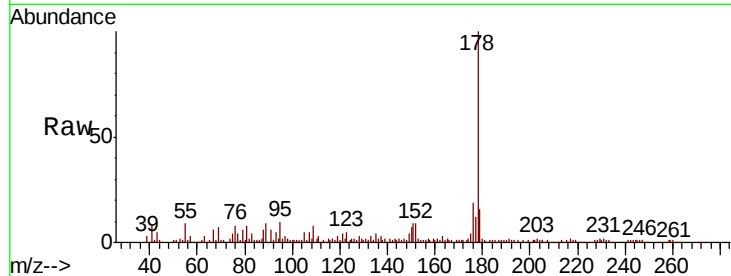
#72
 Anthracene
 Concen: 7.881 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. -0.01 min
 Lab File: BF115879.D
 Acq: 31 Jul 2019 21:13

Instrument :
 BNA_F
 ClientSampleId :
 SP-10

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.9	12.4	18.6

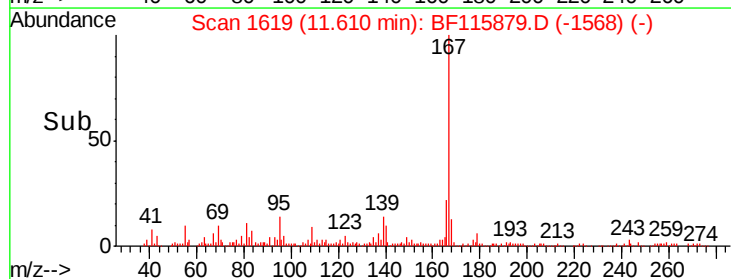
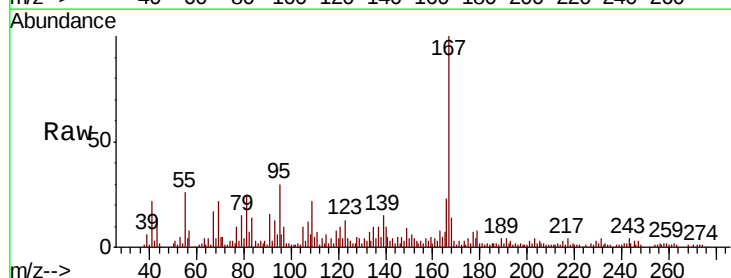
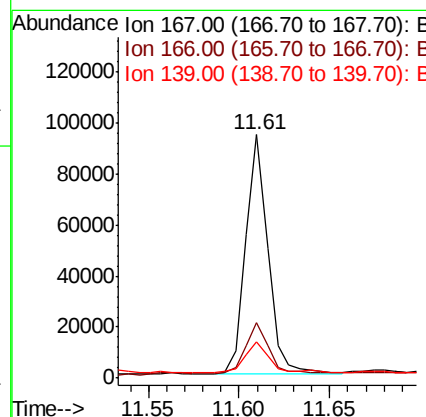
Manual Integrations
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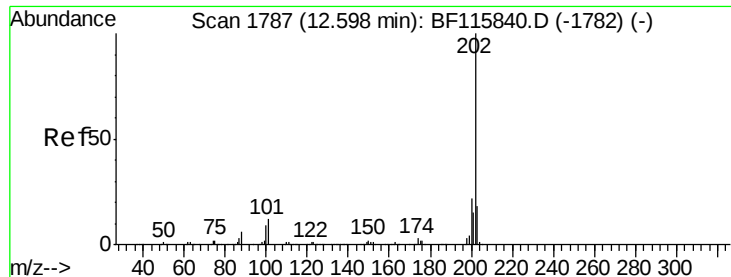
mohammad
 8/1/2019 5:07:03 PM



#73
 Carbazole
 Concen: 4.326 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. 0.00 min
 Lab File: BF115879.D
 Acq: 31 Jul 2019 21:13

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.9	18.0	27.0
139	15.1	11.4	17.2





#75

Fluoranthene

Concen: 55.456 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.01 min

Lab File: BF115879.D

Acq: 31 Jul 2019 21:13

Instrument :

BNA_F

ClientSampleId :

SP-10

Tot Ion:202 Resp: 1180678

Ion Ratio Lower Upper

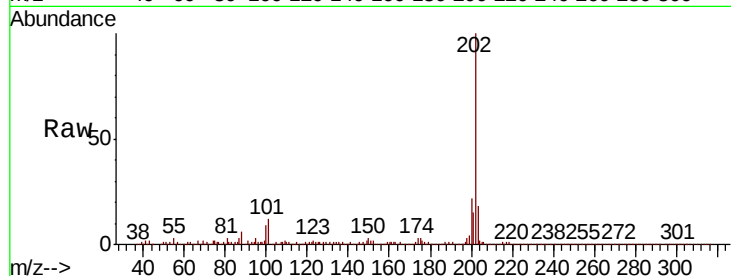
202 100

101 11.8 0.0 31.5

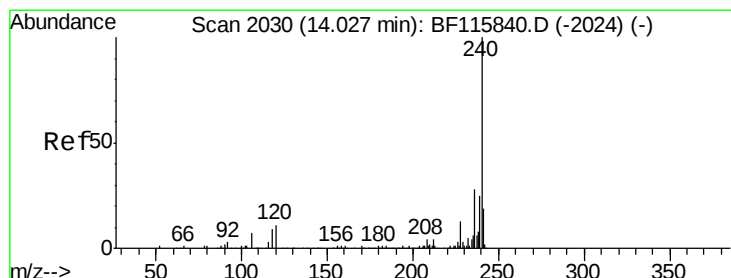
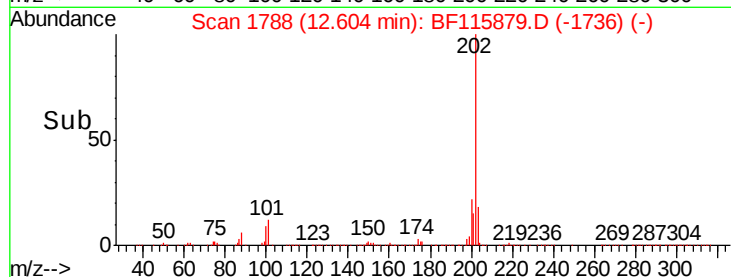
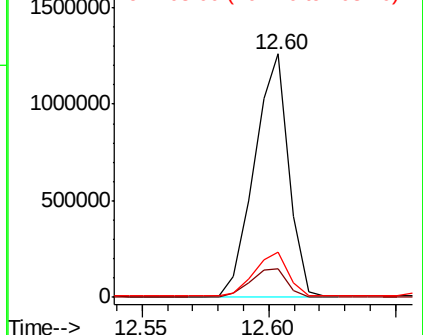
203 18.4 0.0 37.9

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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: 14.03 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BF115879.D

Acq: 31 Jul 2019 21:13

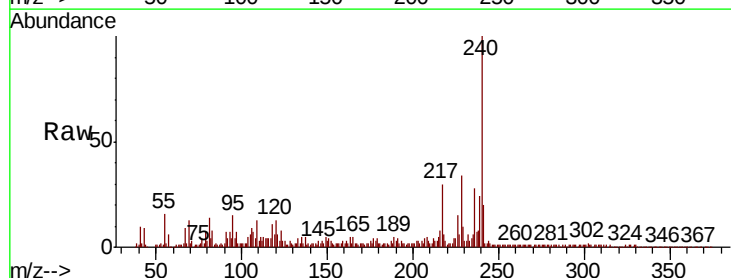
Tgt Ion:240 Resp: 285825

Ion Ratio Lower Upper

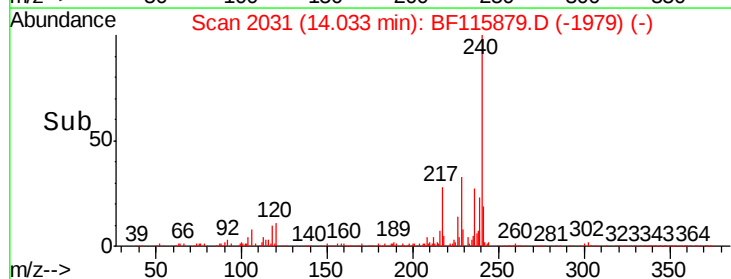
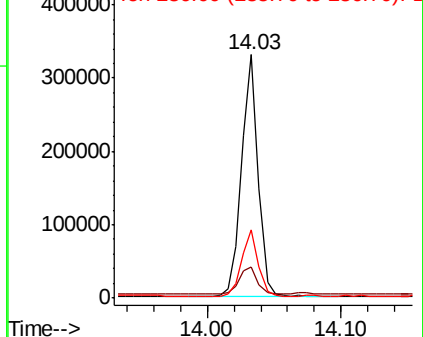
240 100

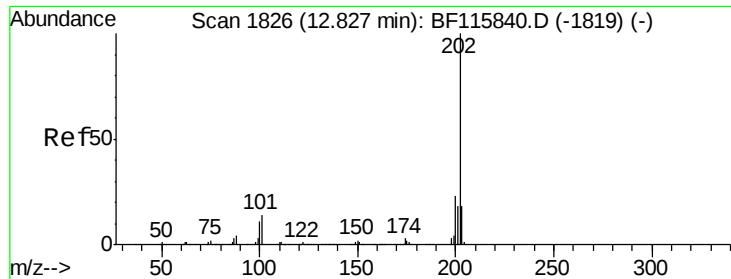
120 12.8 8.5 12.7#

236 28.1 22.2 33.2



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





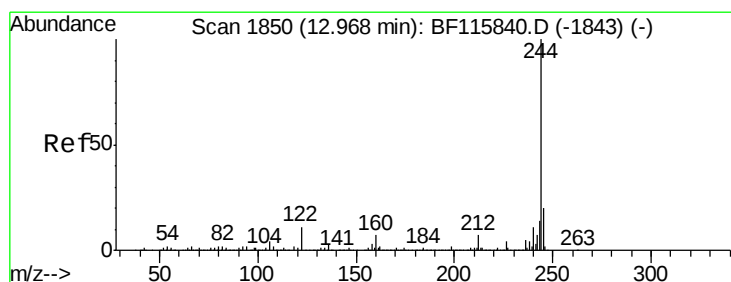
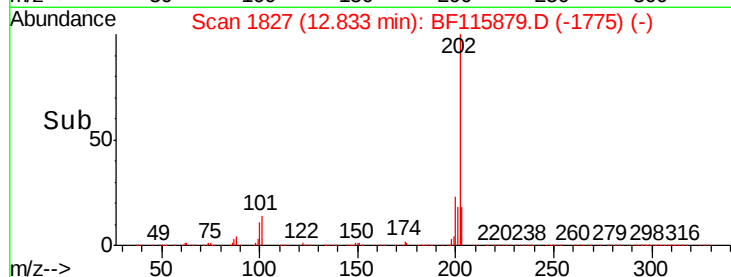
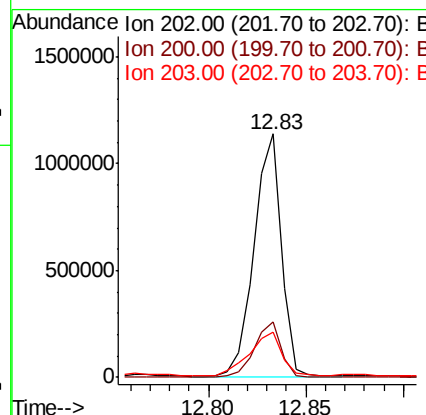
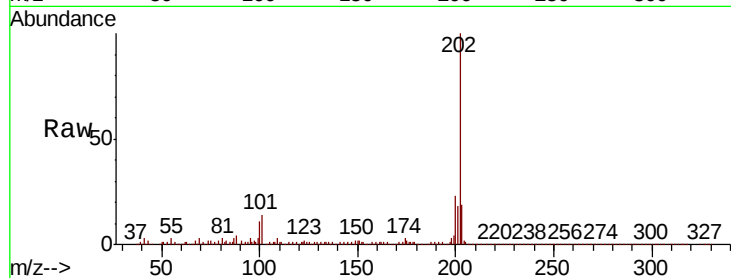
#78
Pvrene
Concen: 50.824 ng
RT: 12.83 min Scan# 1827
Delta R.T. 0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Instrument :
BNA_F
ClientSampleId :
SP-10

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.7	18.2	27.2
203	18.7	14.3	21.5

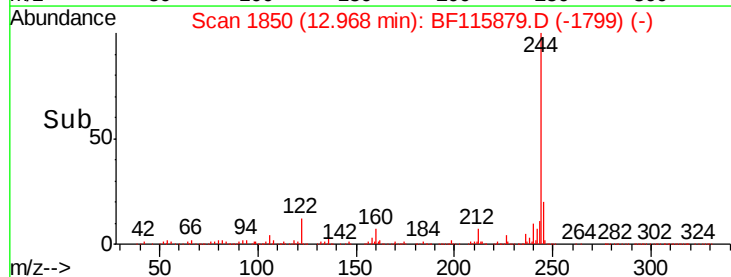
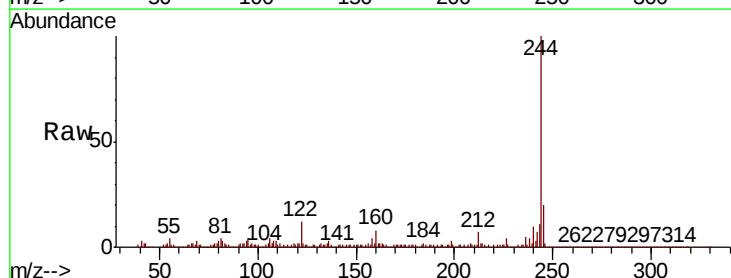
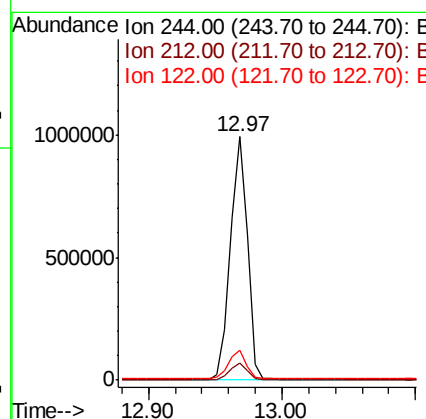
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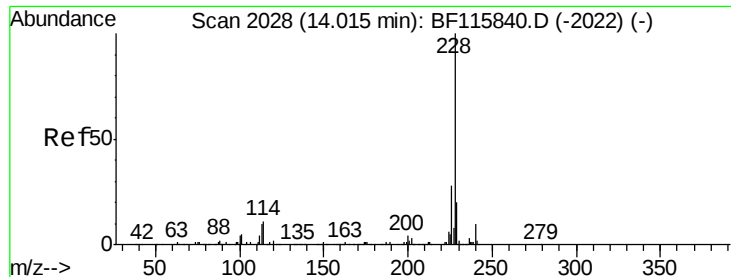
mohammad
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#79
Terphenyl-d14
Concen: 66.485 ng
RT: 12.97 min Scan# 1850
Delta R.T. 0.00 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.6	8.4
122	12.2	8.6	13.0





#81

Benzo(a)anthracene

Concen: 33.937 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BF115879.D

Acq: 31 Jul 2019 21:13

Instrument :

BNA_F

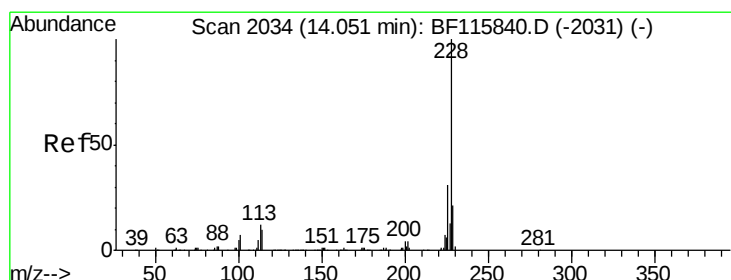
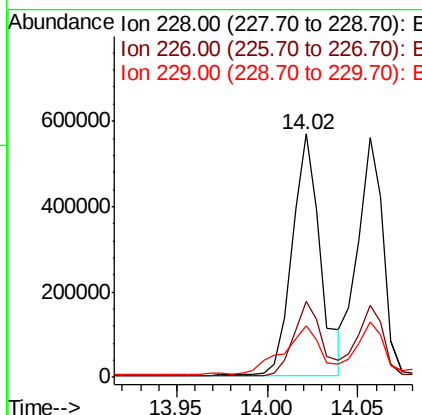
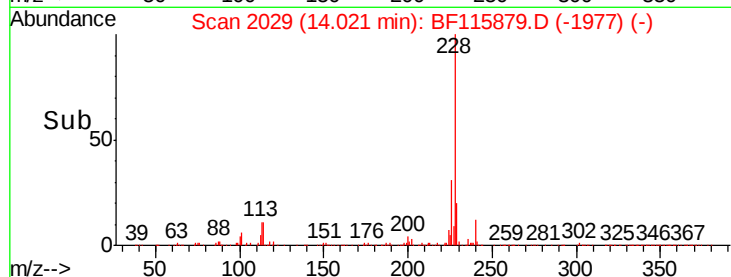
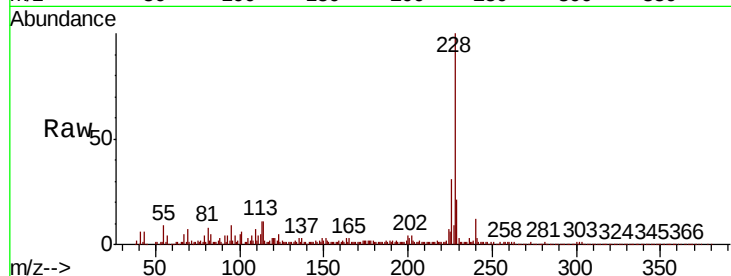
ClientSampleId :

SP-10

Tot Ion:	228	Resp:	619987
Ion Ratio	Lower	Upper	
228	100		
226	31.2	22.5	33.7
229	21.3	16.1	24.1

Manual Integrations
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#83

Chrysene

Concen: 31.048 ng

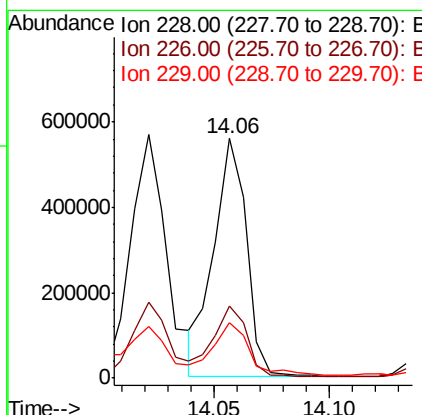
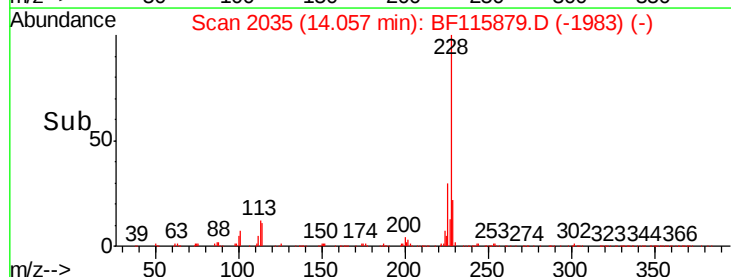
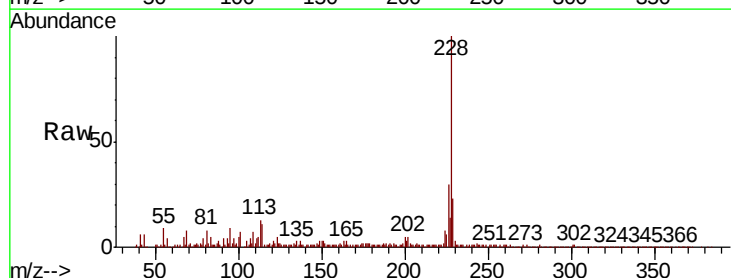
RT: 14.06 min Scan# 2035

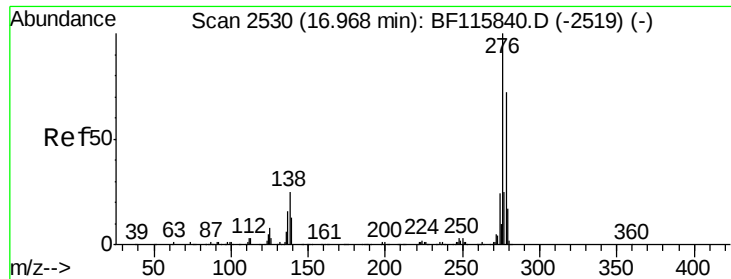
Delta R.T. 0.01 min

Lab File: BF115879.D

Acq: 31 Jul 2019 21:13

Tgt Ion:	228	Resp:	550671
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.8	37.2
229	22.9	16.4	24.6





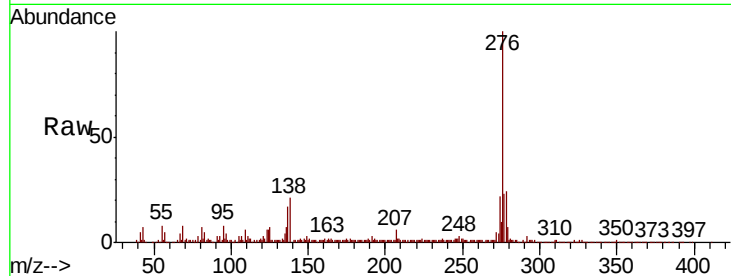
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 19.529 ng
 RT: 16.99 min Scan# 2533
 Delta R.T. 0.02 min
 Lab File: BF115879.D
 Acq: 31 Jul 2019 21:13

Instrument :
 BNA_F
 ClientSampleId :
 SP-10

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.4	19.6	29.4
277	24.7	20.1	30.1

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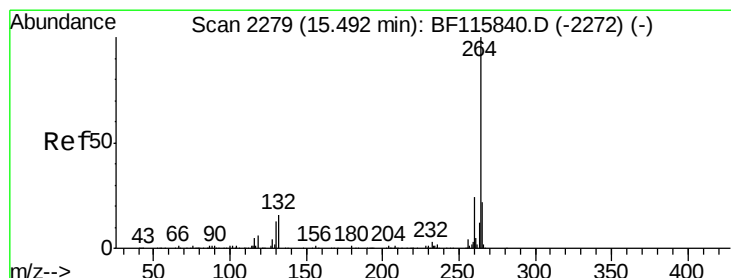
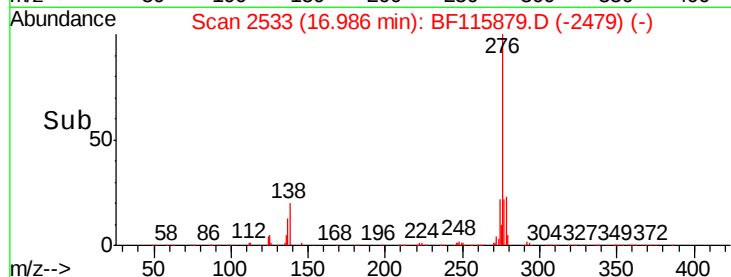
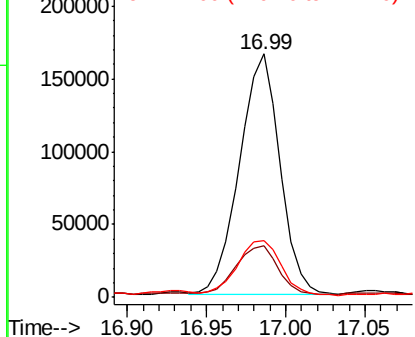


Abundance

Ion 276.00 (275.70 to 276.70): E

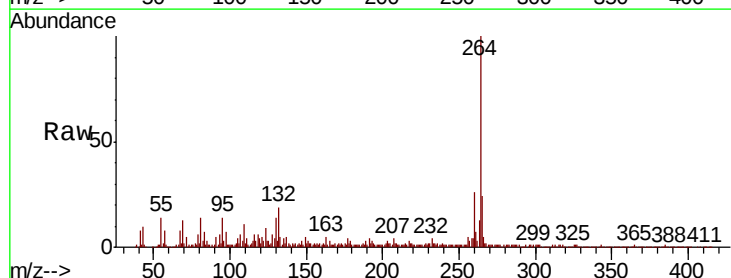
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.51 min Scan# 2282
 Delta R.T. 0.02 min
 Lab File: BF115879.D
 Acq: 31 Jul 2019 21:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.5	19.4	29.2
265	23.8	17.5	26.3

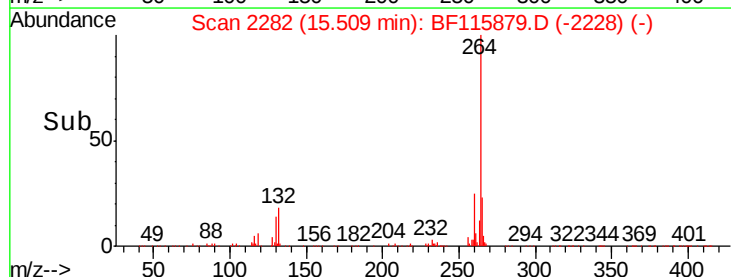
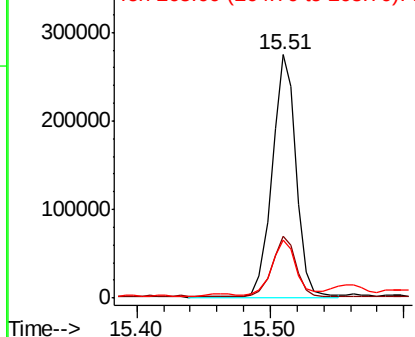


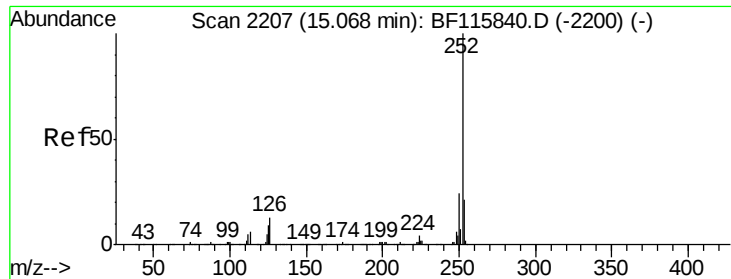
Abundance

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





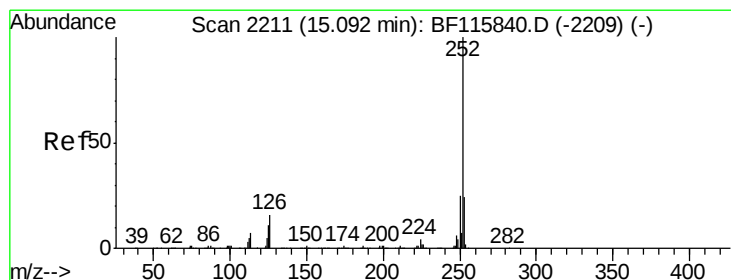
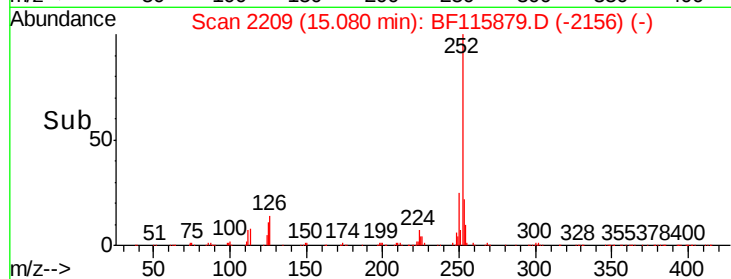
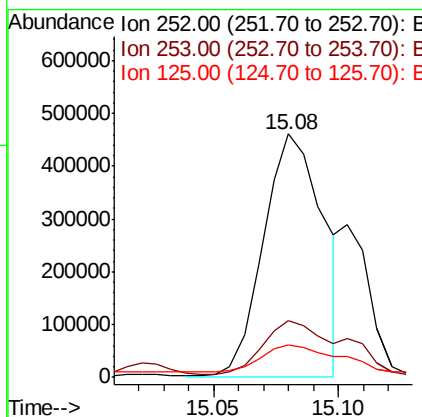
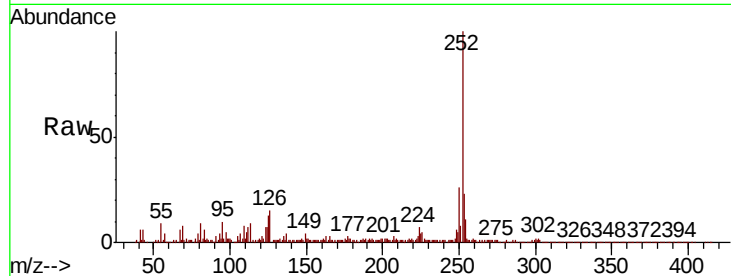
#88
Benzo(b)fluoranthene
Concen: 38.826 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Instrument :
BNA_F
ClientSampleId :
SP-10

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.2	25.8
125	13.4	7.4	11.0

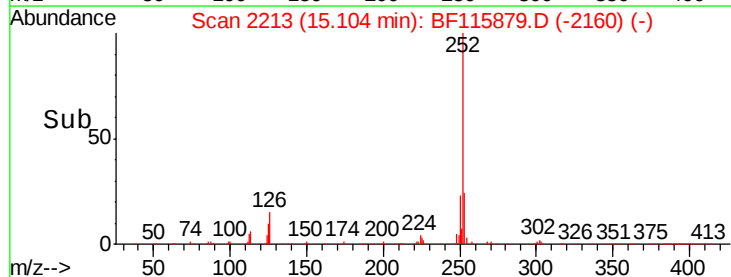
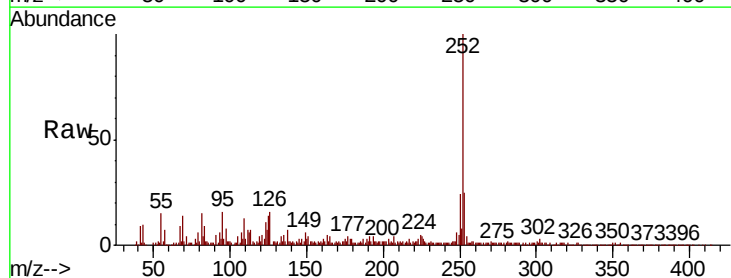
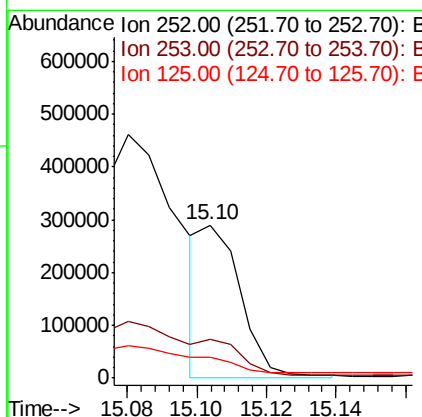
Manual Integrations
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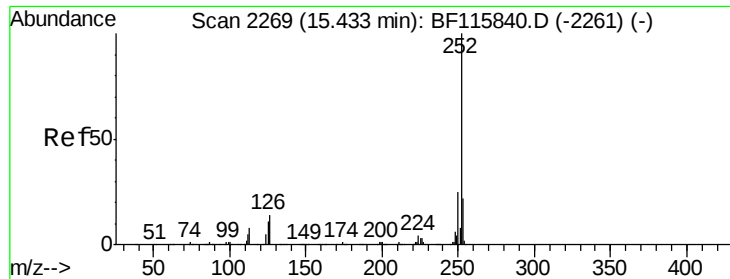
mohammad
8/1/2019 5:07:03 PM



#89
Benzo(k)fluoranthene
Concen: 12.141 ng m
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	18.2	27.4
125	13.8	8.9	13.3





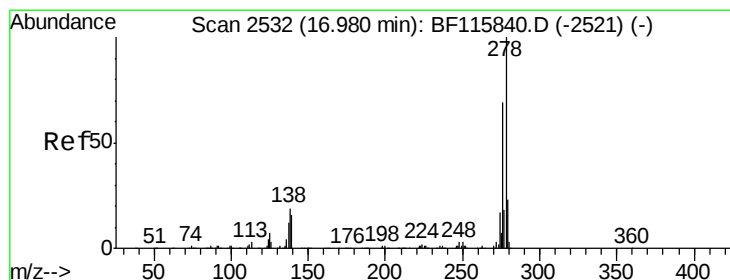
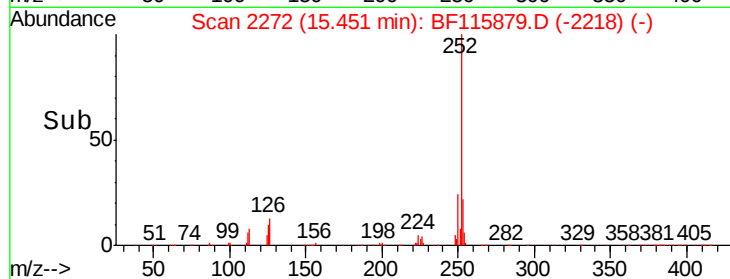
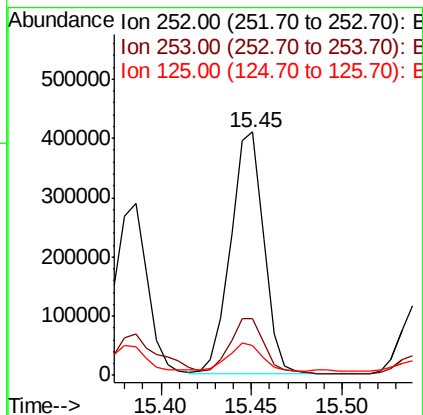
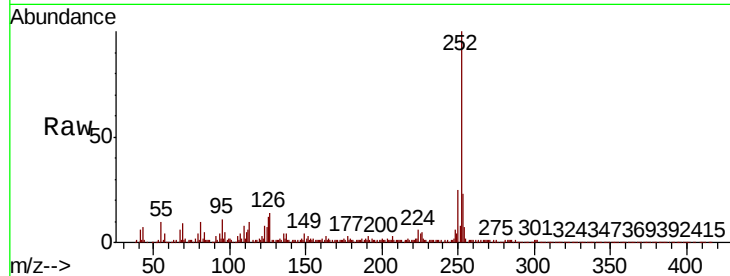
#90
Benzo(a)pyrene
Concen: 29.409 ng
RT: 15.45 min Scan# 2272
Delta R.T. 0.02 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

Instrument :
BNA_F
ClientSampleId :
SP-10

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.8	26.6
125	12.4	8.8	13.2

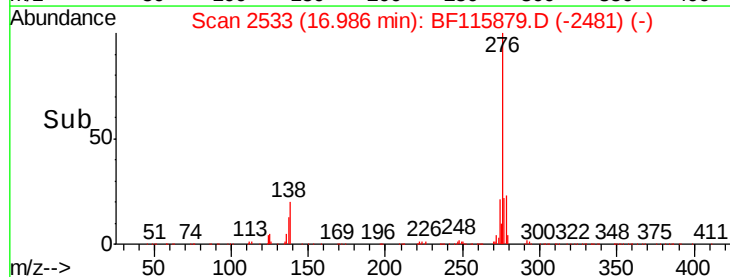
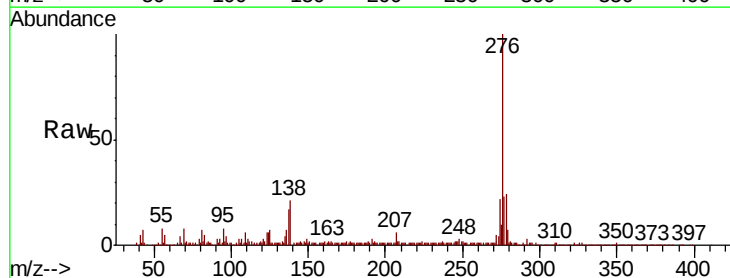
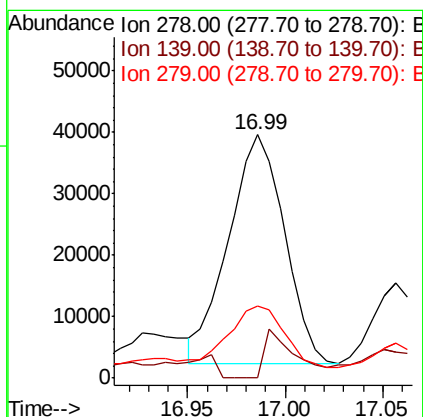
Manual Integrations
APPROVED

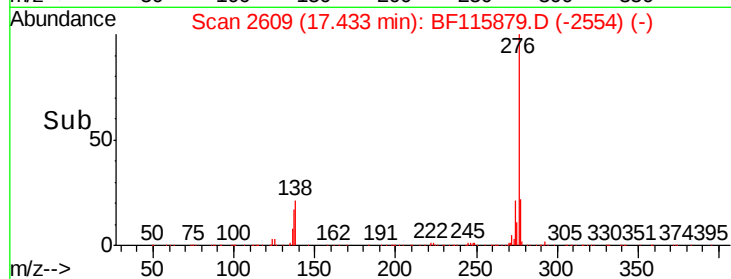
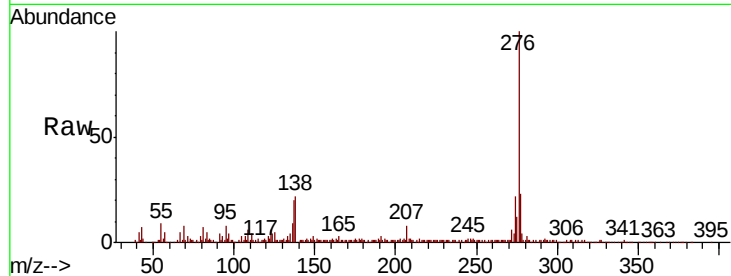
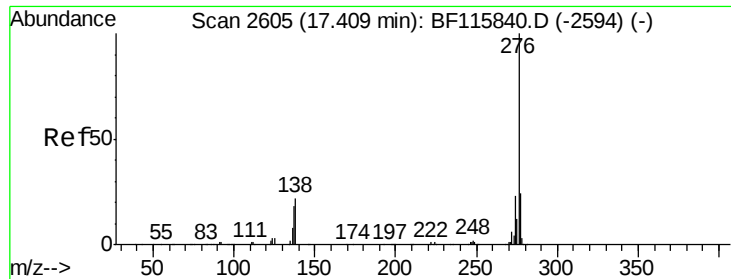
mohammad
8/1/2019 5:07:03 PM



#91
Dibenzo(a,h)anthracene
Concen: 4.840 ng
RT: 16.99 min Scan# 2533
Delta R.T. 0.01 min
Lab File: BF115879.D
Acq: 31 Jul 2019 21:13

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





#92
 Benzo(a,h,i)perylene
 Concen: 17.499 ng
 RT: 17.43 min Scan# 2609
 Delta R.T. 0.02 min
 Lab File: BF115879.D
 Acq: 31 Jul 2019 21:13

Instrument :
 BNA_F
 ClientSampleId :
 SP-10

Tot Ion:	276	Resp:	262425
Ion Ratio		Lower	Upper
276	100		
277	23.5	19.5	29.3
138	22.5	17.8	26.8

Manual Integrations
 APPROVED

mohammad
 8/1/2019 5:07:03 PM

