

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013120\
 Data File : BF118777.D
 Acq On : 31 Jan 2020 13:06
 Operator : CG/JU
 Sample : L1319-17
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RAINEY-PARK-BH-06-A

Manual Integrations
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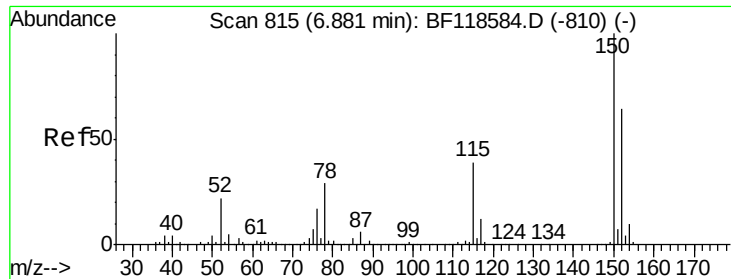
Quant Time: Jan 31 22:28:10 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 27 14:24:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	303028	20.00	ng	-0.04
21) Naphthalene-d8	8.11	136	1153631	20.00	ng	-0.04
39) Acenaphthene-d10	9.86	164	635693	20.00	ng	-0.04
64) Phenanthrene-d10	11.35	188	1129082	20.00	ng	-0.03
76) Chrysene-d12	13.99	240	582426	20.00	ng	-0.04
87) Perylene-d12	15.44	264	667703	20.00	ng	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.45	112	1630120	99.91	ng	-0.03
7) Phenol-d6	6.46	99	2042084	96.30	ng	-0.04
23) Nitrobenzene-d5	7.39	82	1357960	65.84	ng	-0.04
42) 2,4,6-Tribromophenol	10.65	330	736697	100.20	ng	-0.04
45) 2-Fluorobiphenyl	9.19	172	2551974	65.98	ng	-0.04
79) Terphenyl-d14	12.93	244	2501868	93.69	ng	-0.03

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.13	128	152406	2.925	ng	99
37) 2-Methylnaphthalene	8.82	142	99713	2.711	ng	98
38) 1-Methylnaphthalene	8.92	142	126518	3.620	ng	98
50) Dimethylphthalate	9.57	163	123279	2.977	ng	100
52) Acenaphthene	9.90	154	285092	8.207	ng	99
55) Dibenzofuran	10.07	168	226549	4.706	ng	93
58) Fluorene	10.41	166	333413	8.822	ng	98
71) Phenanthrene	11.38	178	3824895	70.218	ng	97
72) Anthracene	11.43	178	897122	16.644	ng	98
73) Carbazole	11.57	167	240131	4.857	ng	98
75) Fluoranthene	12.57	202	3445795	59.977	ng	99
78) Pyrene	12.80	202	3327949	84.163	ng	98
81) Benzo(a)anthracene	13.98	228	1325006	37.818	ng	99
83) Chrysene	14.02	228	1328632	39.568	ng	98
86) Indeno(1,2,3-cd)pyrene	16.89	276	759945	26.047	ng	96
88) Benzo(b)fluoranthene	15.02	252	1425165m	33.957	ng	
89) Benzo(k)fluoranthene	15.04	252	390863m	10.052	ng	
90) Benzo(a)pyrene	15.38	252	1051610	29.046	ng	99
91) Dibenzo(a,h)anthracene	16.89	278	204737	6.393	ng	96
92) Benzo(a,h,i)perylene	17.33	276	729887	23.473	ng	99

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



#1

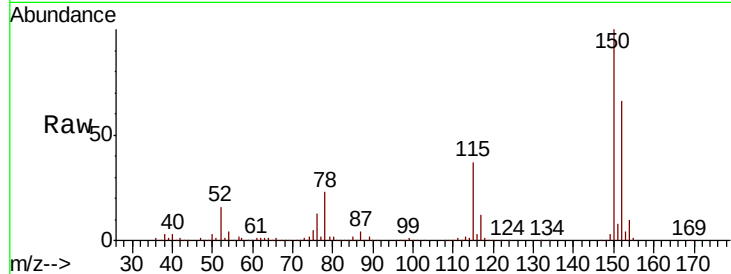
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 806
Delta R.T. -0.04 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Instrument :
BNA_F
ClientSampleId :
RAINEY-PARK-BH-06-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.6	123.7	185.5
115	55.9	45.1	67.7

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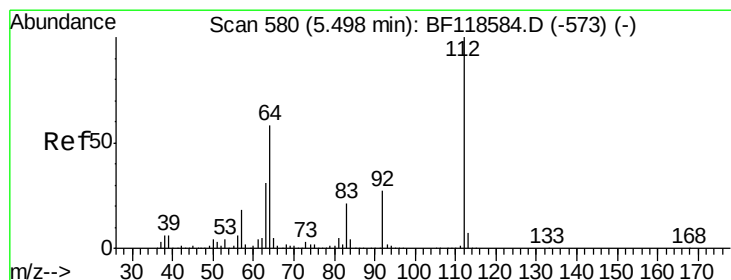
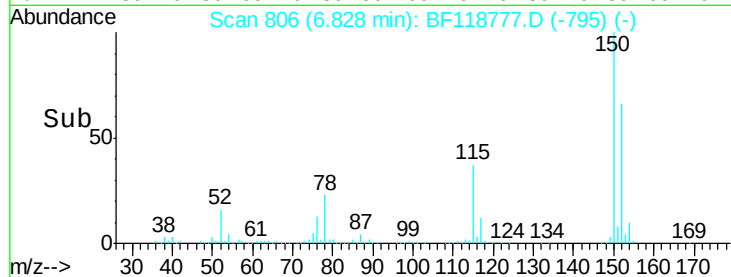
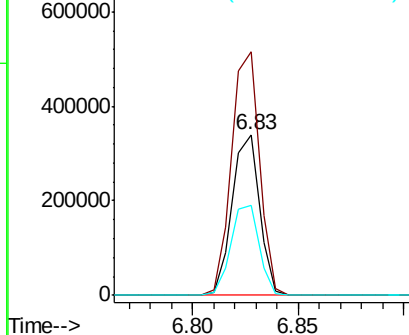


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

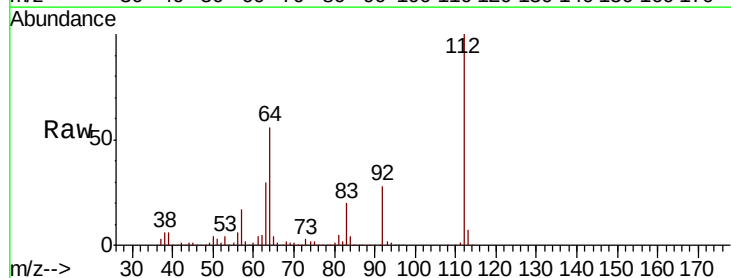
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 99.910 ng
RT: 5.45 min Scan# 572
Delta R.T. -0.03 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.3	42.4	63.6
63	29.7	21.7	32.5

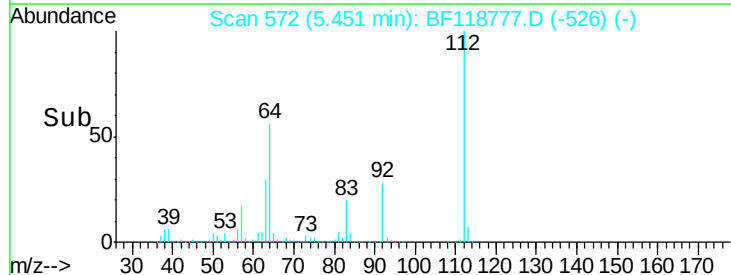
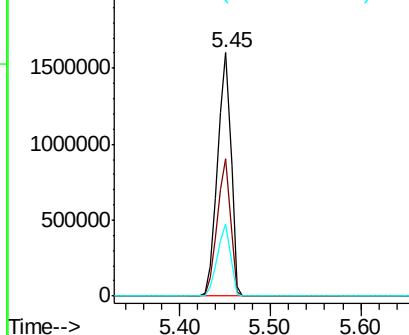


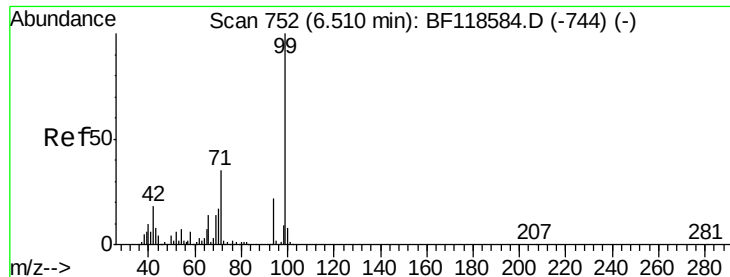
Abundance

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: 96.295 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.04 min

Lab File: BF118777.D

Acq: 31 Jan 2020 13:06

Instrument :

BNA_F

ClientSampleId :

RAINEY-PARK-BH-06-A

Tot Ion: 99 Resp: 2042084

Ion Ratio Lower Upper

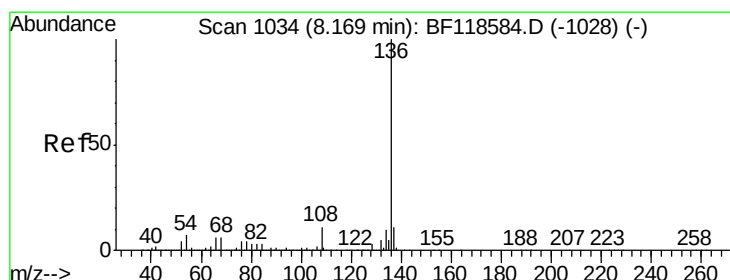
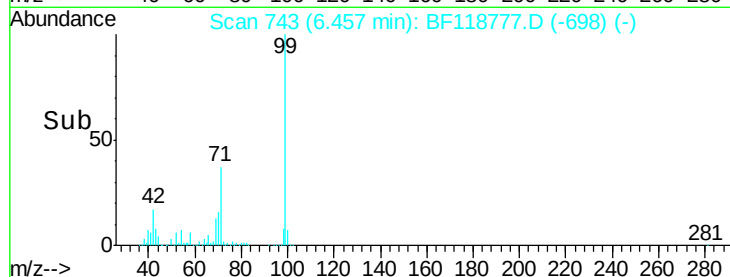
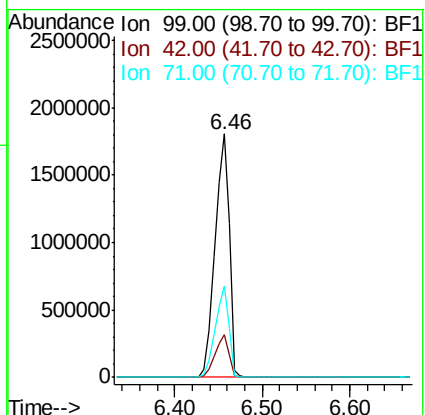
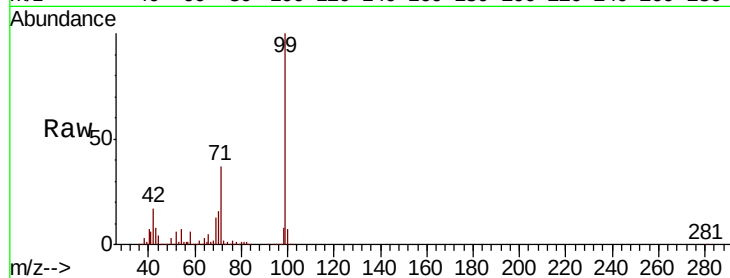
99 100

42 17.4 13.1 19.7

71 37.4 28.4 42.6

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.11 min Scan# 1024

Delta R.T. -0.04 min

Lab File: BF118777.D

Acq: 31 Jan 2020 13:06

Tgt Ion: 136 Resp: 1153631

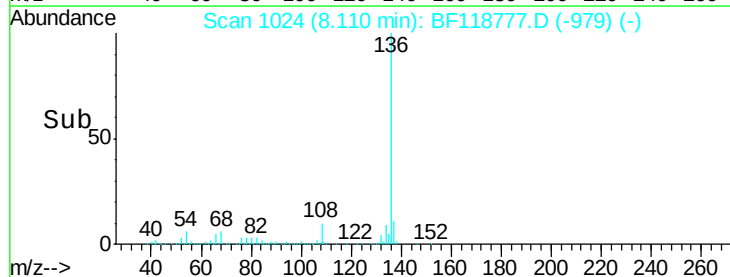
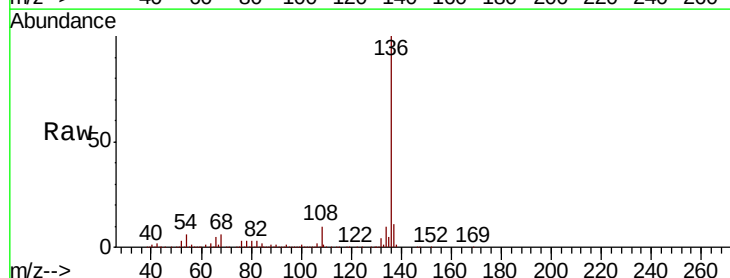
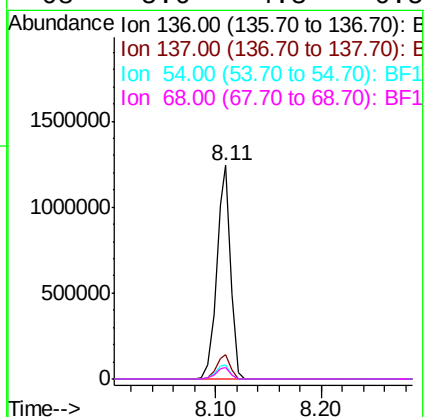
Ion Ratio Lower Upper

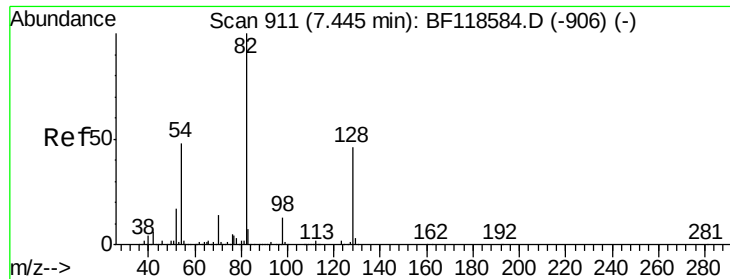
136 100

137 11.2 8.9 13.3

54 6.4 5.1 7.7

68 5.6 4.3 6.5





#23

Nitrobenzene-d5

Concen: 65.841 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.04 min

Lab File: BF118777.D

Acq: 31 Jan 2020 13:06

Instrument :

BNA_F

ClientSampleId :

RAINEY-PARK-BH-06-A

Tot Ion: 82 Resp: 1357960

Ion Ratio Lower Upper

82 100

128 47.8 38.2 57.2

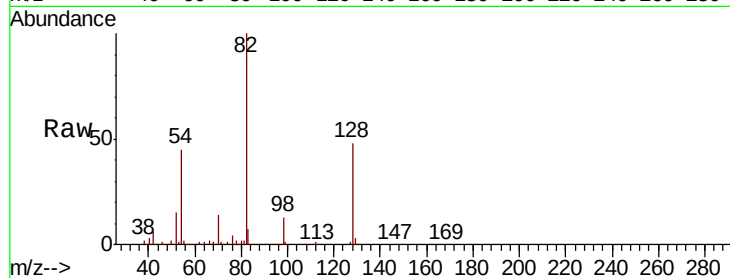
54 44.9 36.1 54.1

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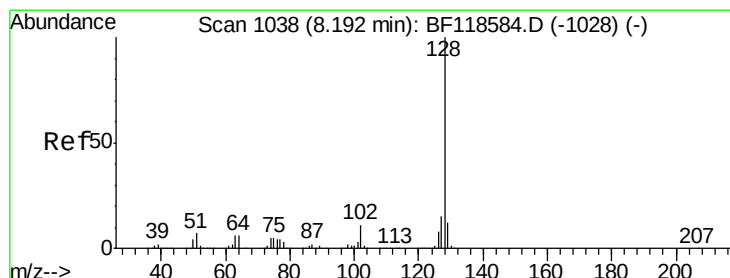
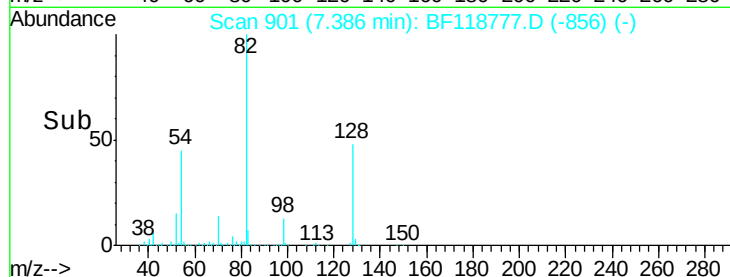
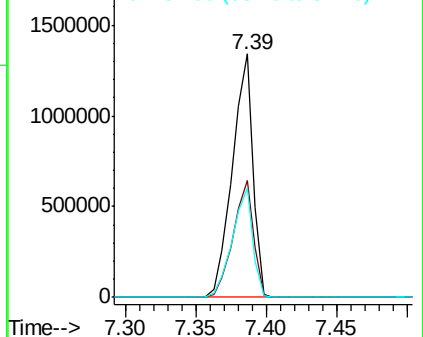
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Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31

Naphthalene

Concen: 2.925 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.04 min

Lab File: BF118777.D

Acq: 31 Jan 2020 13:06

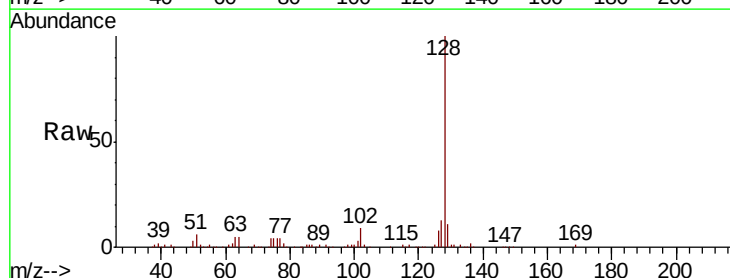
Tgt Ion: 128 Resp: 152406

Ion Ratio Lower Upper

128 100

129 11.3 9.4 14.0

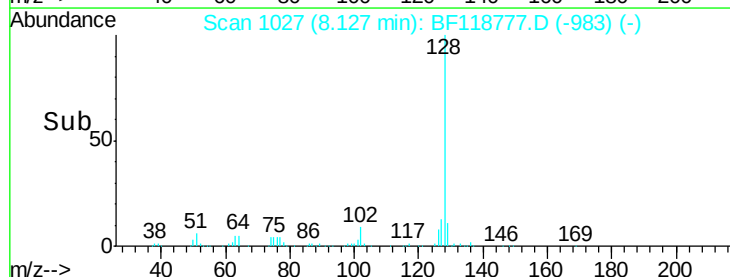
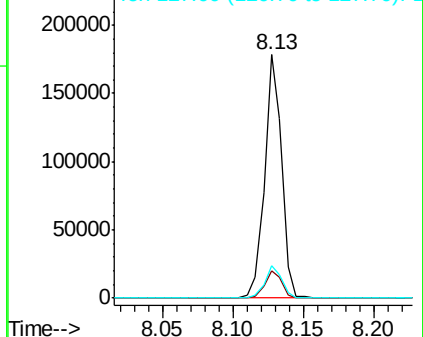
127 13.4 11.3 16.9

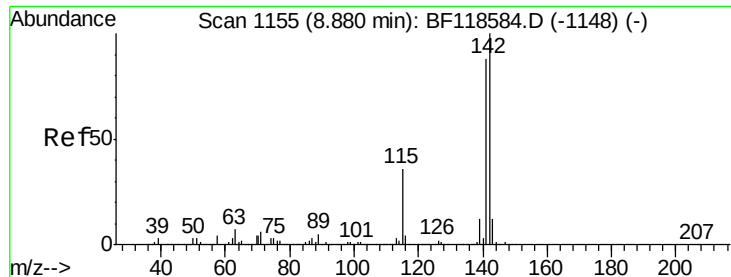


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





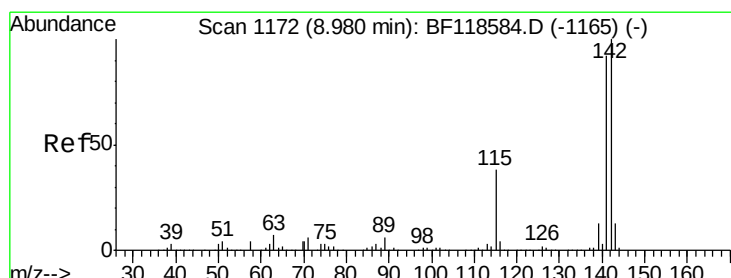
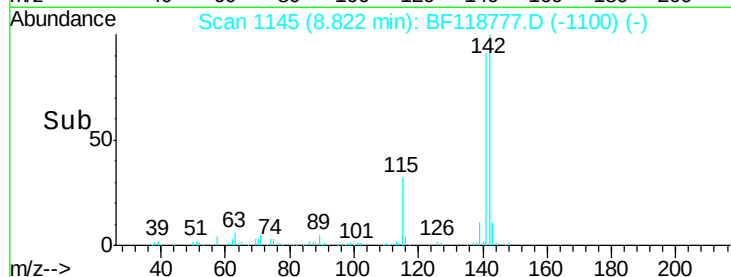
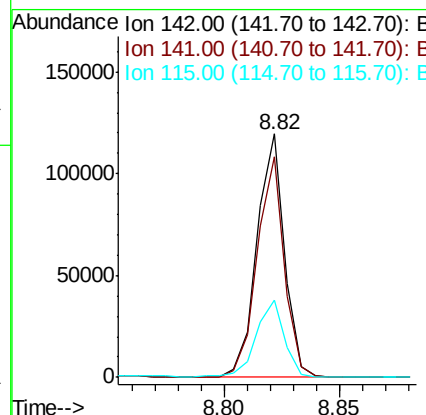
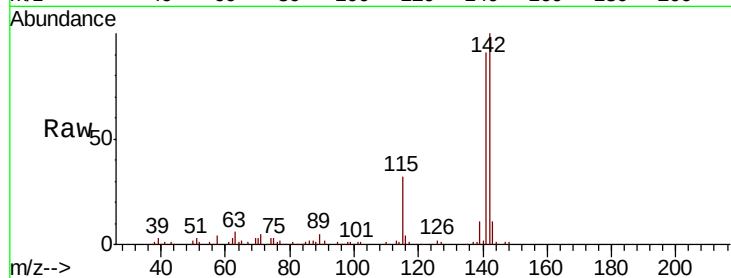
#37
2-Methylnaphthalene
Concen: 2.711 ng
RT: 8.82 min Scan# 1145
Delta R.T. -0.04 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Instrument :
BNA_F
ClientSampleId :
RAINEY-PARK-BH-06-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.4	107.0
115	31.8	27.5	41.3

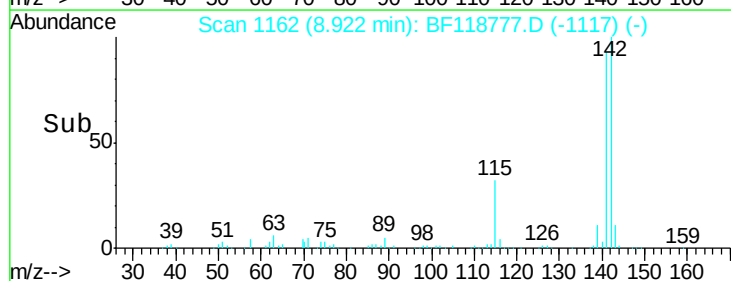
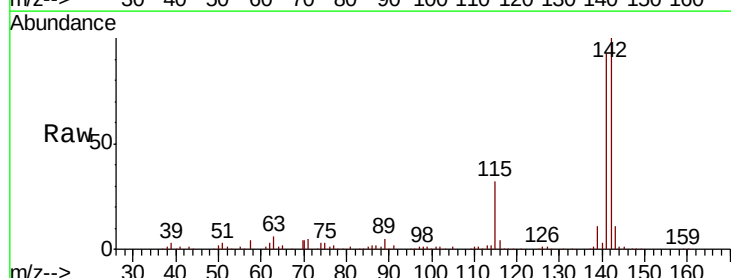
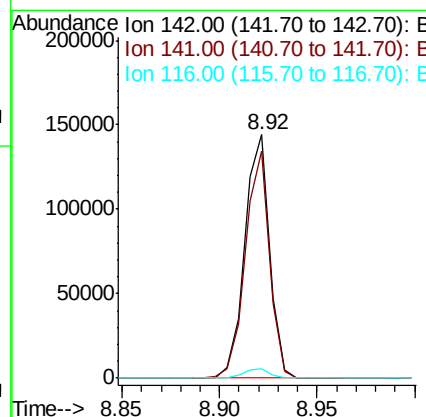
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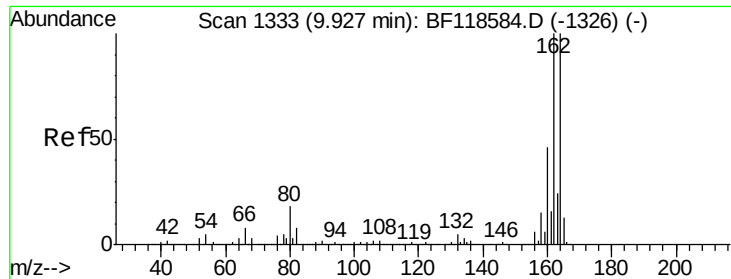
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#38
1-Methylnaphthalene
Concen: 3.620 ng
RT: 8.92 min Scan# 1162
Delta R.T. -0.04 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.4	73.5	110.3
116	4.0	3.0	4.6





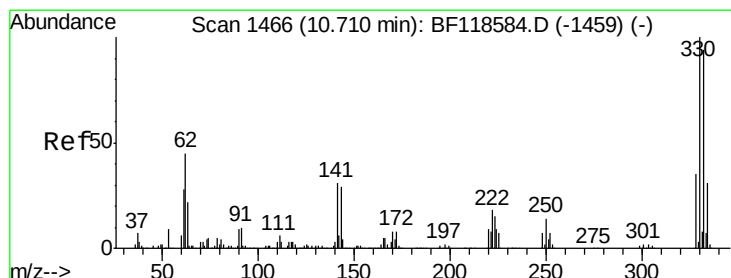
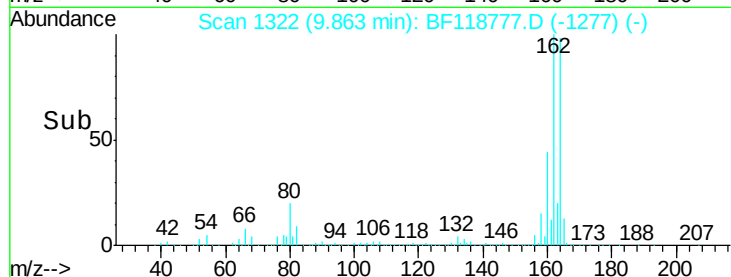
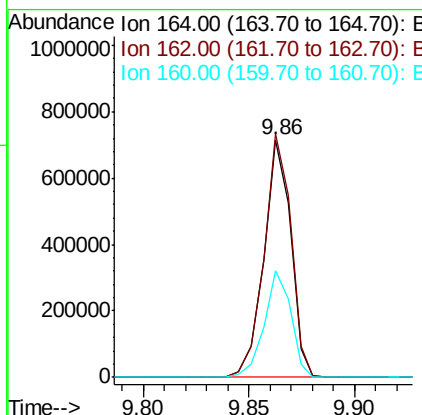
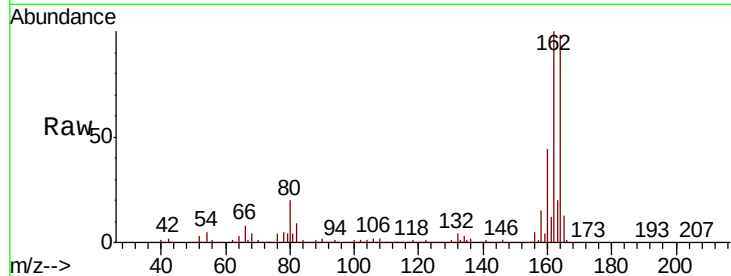
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.86 min Scan# 1322
 Delta R.T. -0.04 min
 Lab File: BF118777.D
 Acq: 31 Jan 2020 13:06

Instrument :
 BNA_F
 ClientSampleId :
 RAINEY-PARK-BH-06-A

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.5	80.8	121.2
160	45.1	35.4	53.0

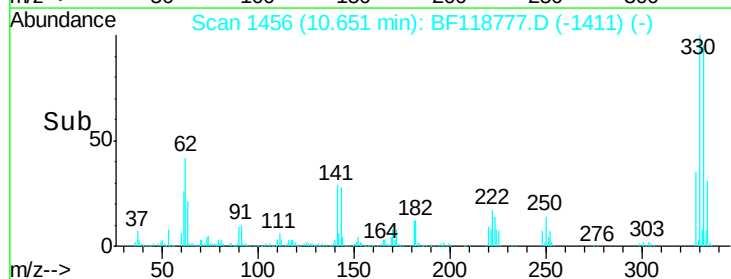
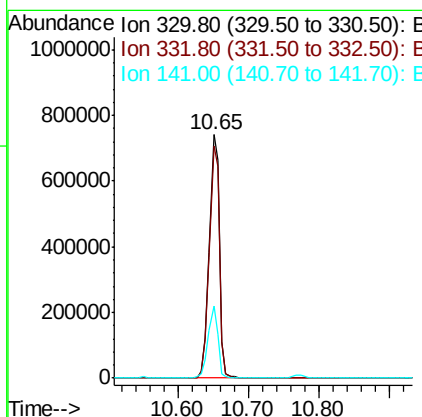
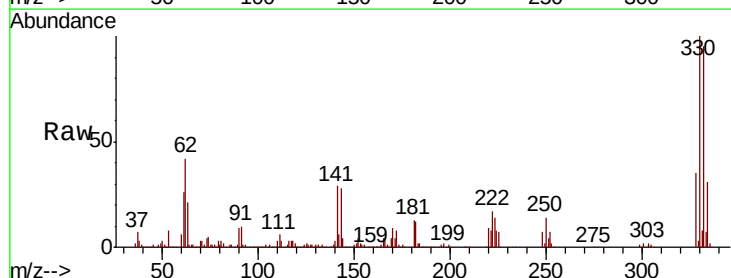
Manual Integrations
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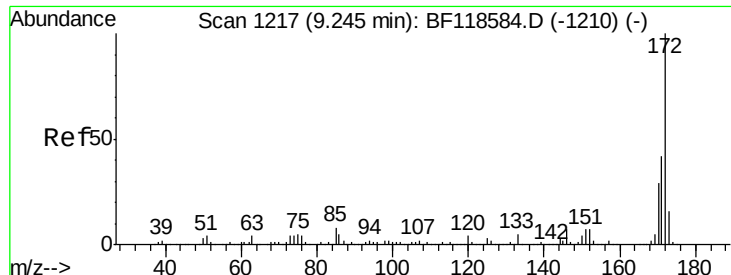
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#42
 2,4,6-Tribromophenol
 Concen: 100.195 ng
 RT: 10.65 min Scan# 1456
 Delta R.T. -0.04 min
 Lab File: BF118777.D
 Acq: 31 Jan 2020 13:06

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.6	116.4
141	28.1	22.2	33.2





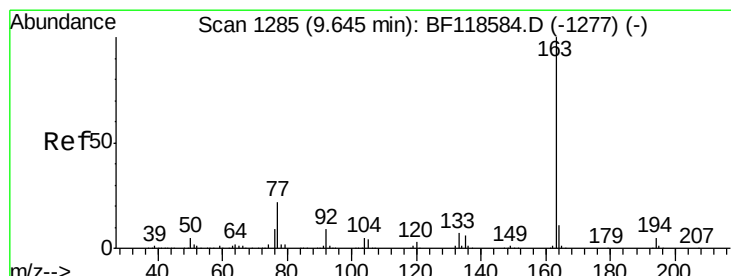
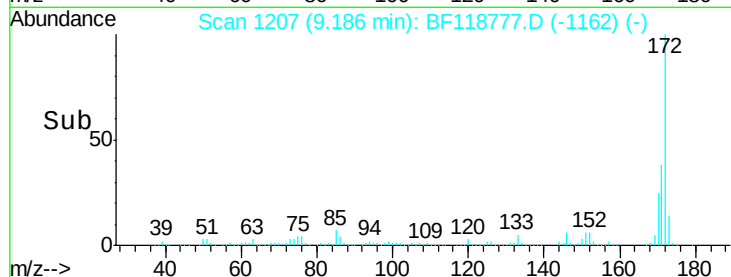
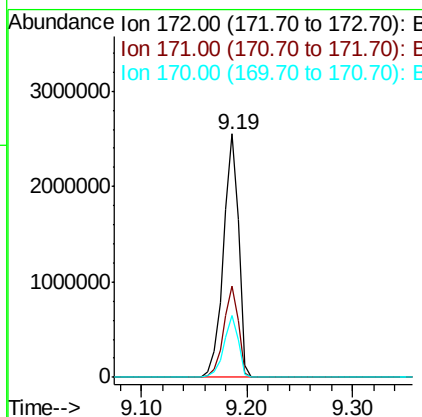
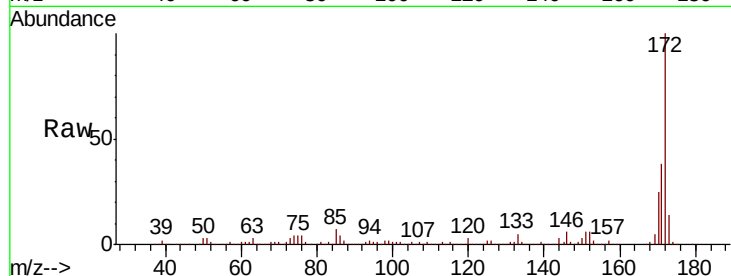
#45
2-Fluorobiphenyl
Concen: 65.983 ng
RT: 9.19 min Scan# 1207
Delta R.T. -0.04 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Instrument :
BNA_F
ClientSampleId :
RAINEY-PARK-BH-06-A

Tot Ion:172 Resp: 2551974
Ion Ratio Lower Upper
172 100
171 37.6 31.0 46.4
170 25.2 20.7 31.1

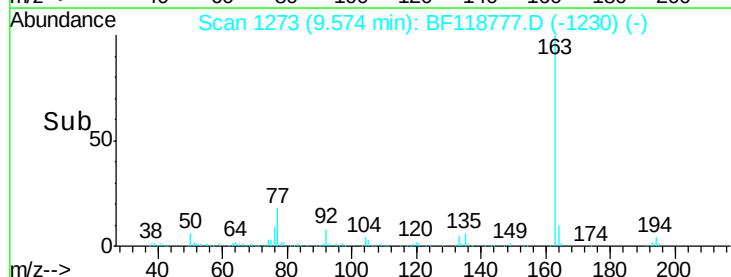
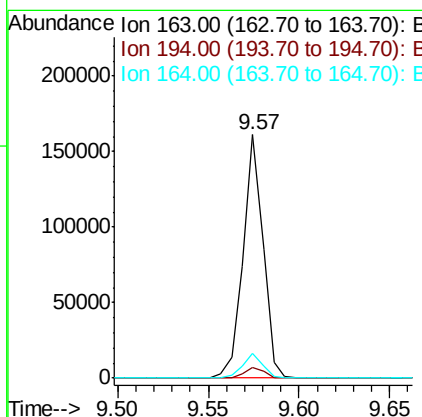
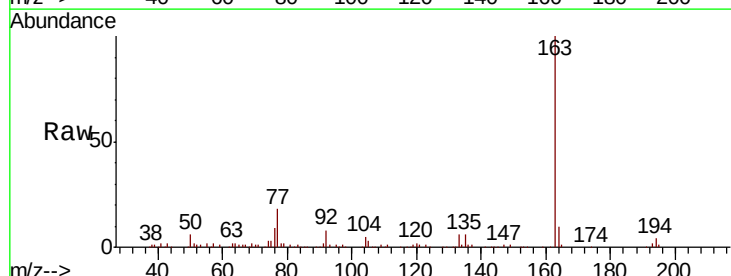
Manual Integrations
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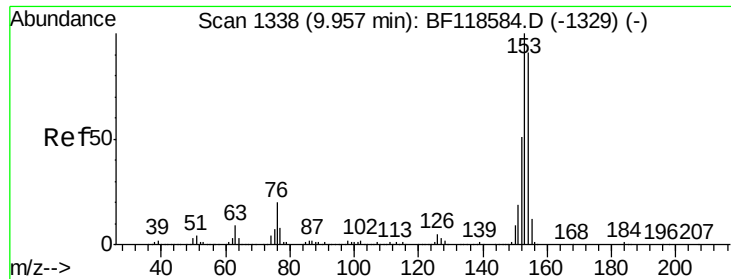
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#50
Dimethylphthalate
Concen: 2.977 ng
RT: 9.57 min Scan# 1273
Delta R.T. -0.05 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Tgt Ion:163 Resp: 123279
Ion Ratio Lower Upper
163 100
194 4.4 3.7 5.5
164 10.2 8.2 12.2





#52

Acenaphthene

Concen: 8.207 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.04 min

Lab File: BF118777.D

Acq: 31 Jan 2020 13:06

Instrument :

BNA_F

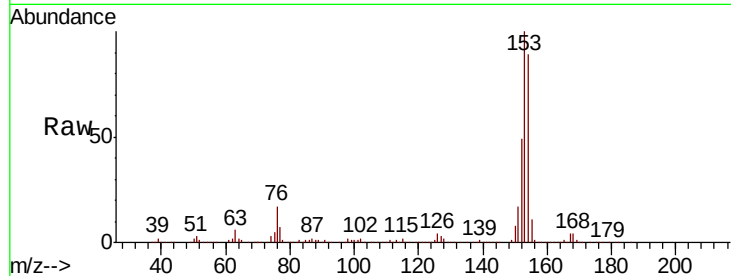
ClientSampleId :

RAINEY-PARK-BH-06-A

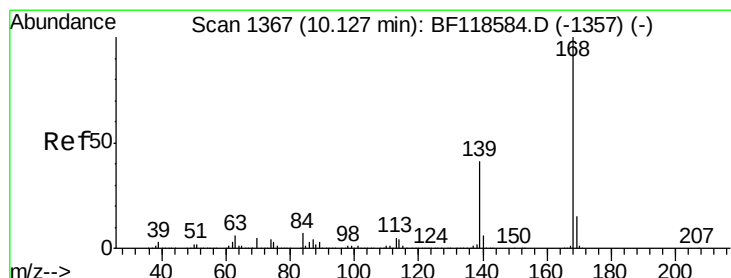
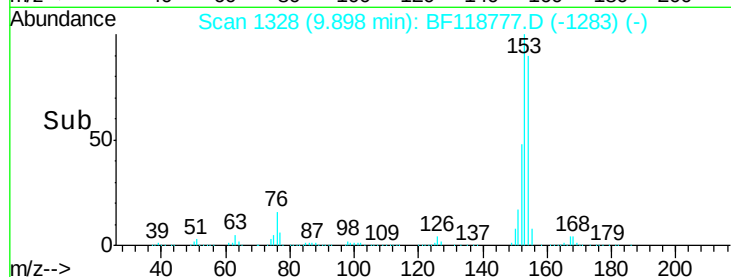
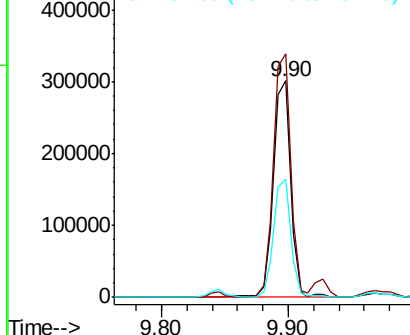
Tot Ion:	154	Resp:	285092
Ion Ratio	Lower	Upper	
154	100		
153	112.5	89.1	133.7
152	54.6	43.0	64.6

Manual Integrations
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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: 4.706 ng

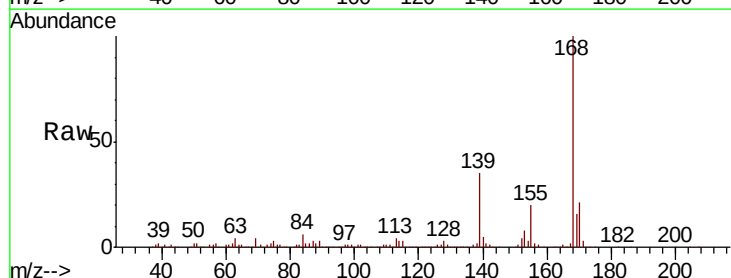
RT: 10.07 min Scan# 1357

Delta R.T. -0.04 min

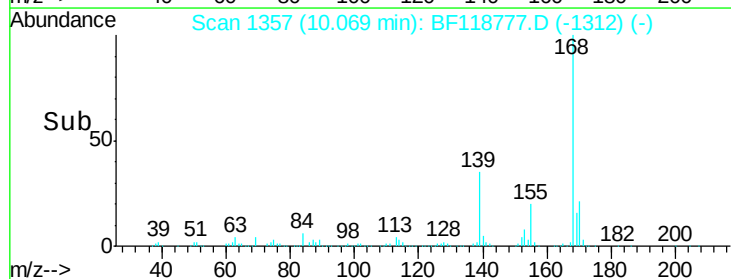
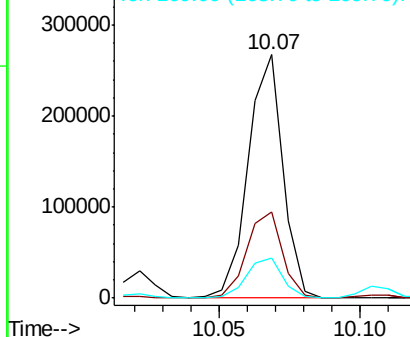
Lab File: BF118777.D

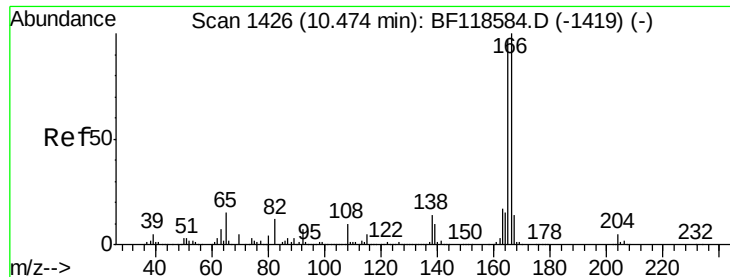
Acq: 31 Jan 2020 13:06

Tgt Ion:	168	Resp:	226549
Ion Ratio	Lower	Upper	
168	100		
139	35.2	31.6	47.4
169	16.4	11.4	17.0



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





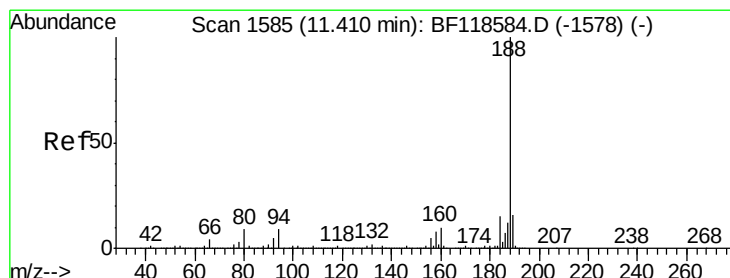
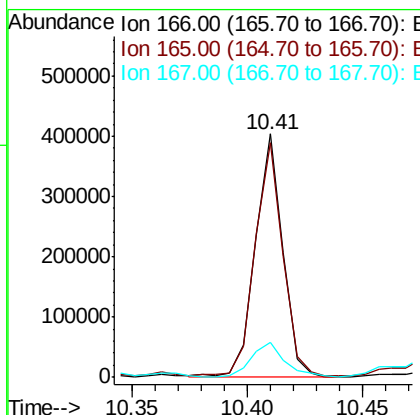
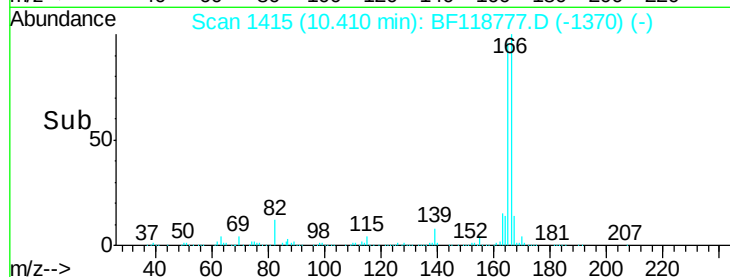
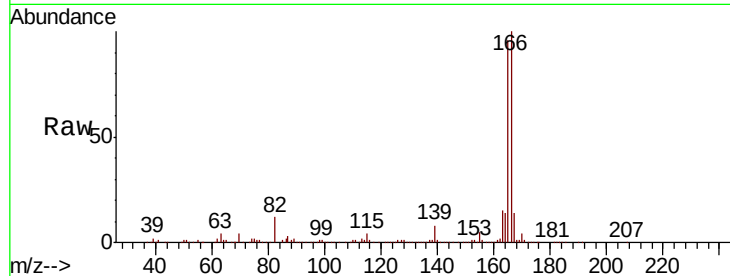
#58
Fluorene
Concen: 8.822 ng
RT: 10.41 min Scan# 1415
Delta R.T. -0.04 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Instrument :
BNA_F
ClientSampleId :
RAINEY-PARK-BH-06-A

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.3	78.6	118.0
167	14.2	11.4	17.2

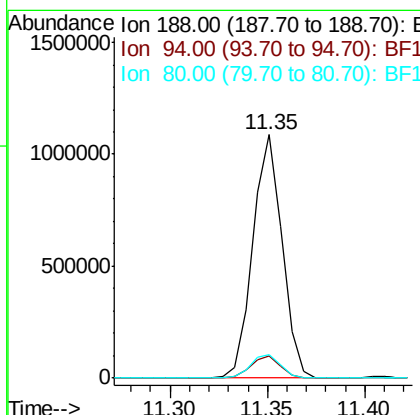
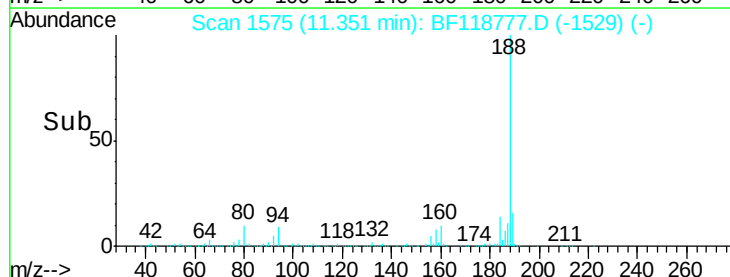
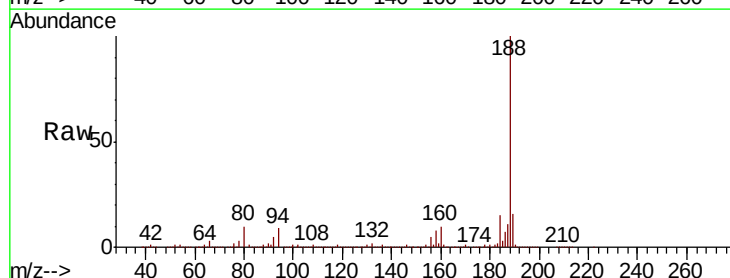
Manual Integrations
APPROVED

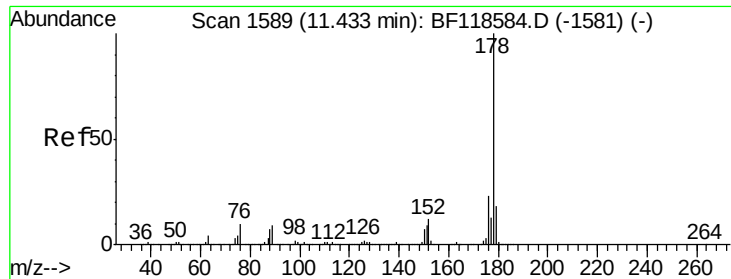
mohammad
2/3/2020 4:10:18 PM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1575
Delta R.T. -0.03 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.9	7.4	11.2
80	9.9	7.8	11.8





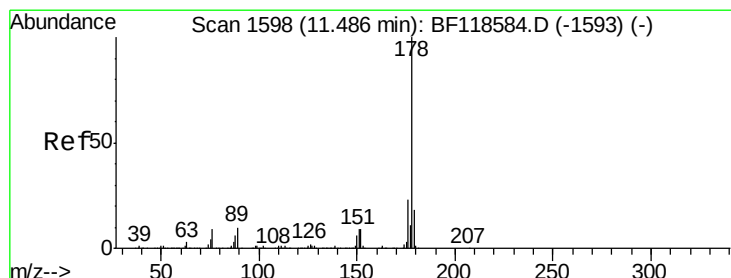
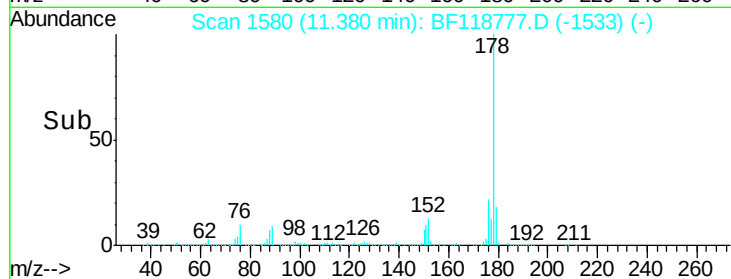
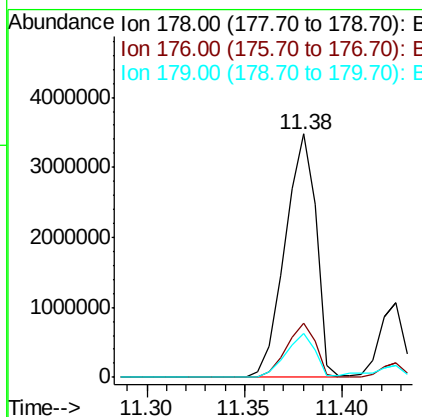
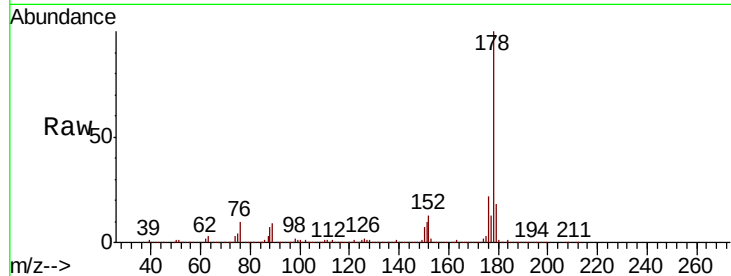
#71
Phenanthrene
Concen: 70.218 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.02 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Instrument :
BNA_F
ClientSampleId :
RAINEY-PARK-BH-06-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	22.3	16.5	24.7
179	17.8	13.3	19.9

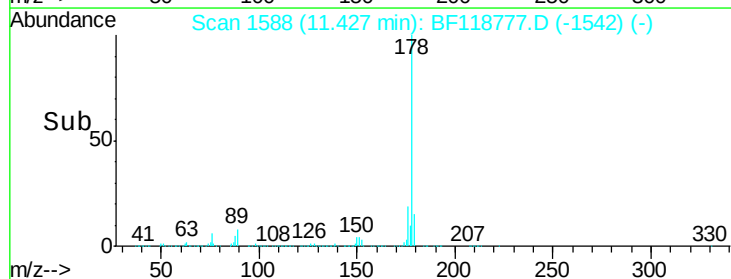
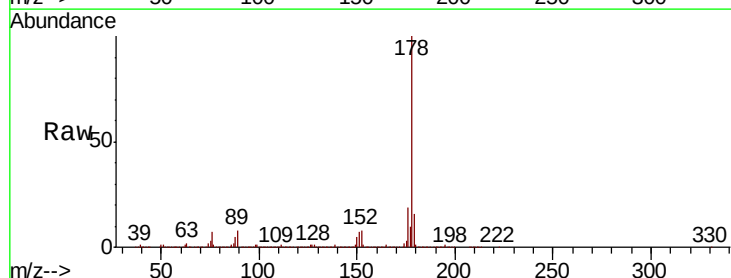
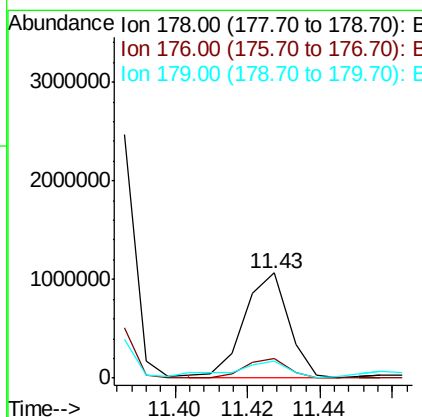
Manual Integrations
APPROVED

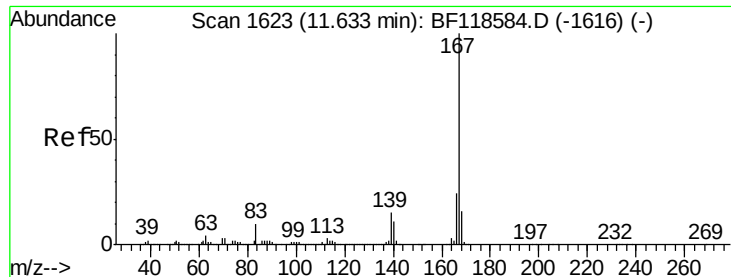
mohammad
2/3/2020 4:10:18 PM



#72
Anthracene
Concen: 16.644 ng
RT: 11.43 min Scan# 1588
Delta R.T. -0.03 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.8
179	15.7	13.3	19.9





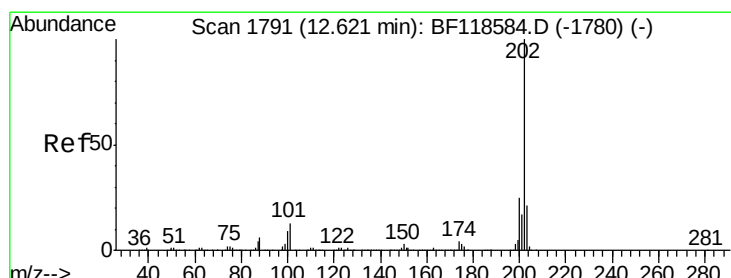
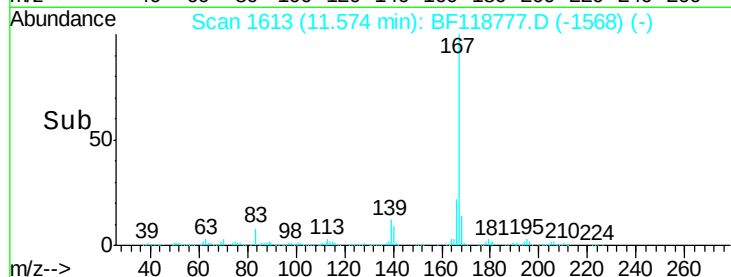
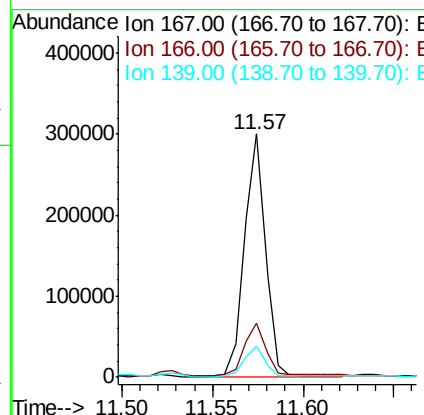
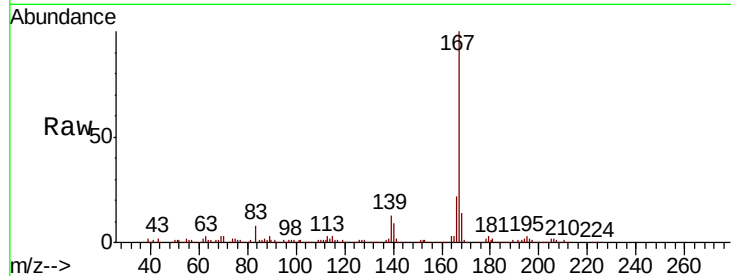
#73
 Carbazole
 Concen: 4.857 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. -0.04 min
 Lab File: BF118777.D
 Acq: 31 Jan 2020 13:06

Instrument :
 BNA_F
 ClientSampleId :
 RAINEY-PARK-BH-06-A

Tot Ion:	167	Resp:	240131
Ion Ratio	Lower	Upper	
167	100		
166	22.0	18.3	27.5
139	12.7	11.0	16.4

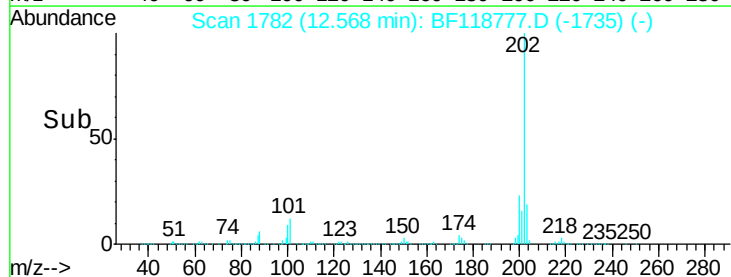
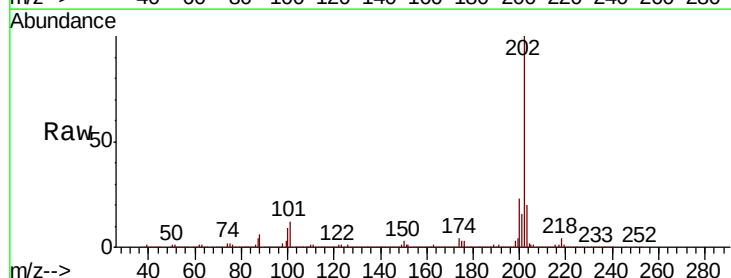
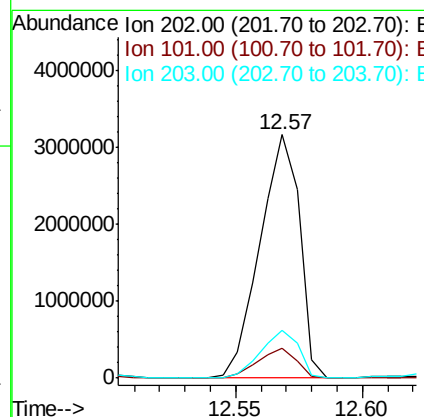
Manual Integrations
 APPROVED

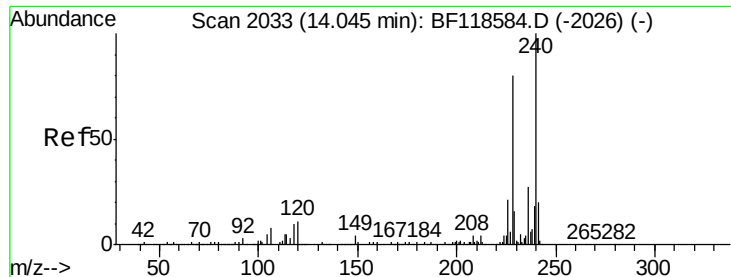
mohammad
 2/3/2020 4:10:18 PM



#75
 Fluoranthene
 Concen: 59.977 ng
 RT: 12.57 min Scan# 1782
 Delta R.T. -0.02 min
 Lab File: BF118777.D
 Acq: 31 Jan 2020 13:06

Tgt Ion:	202	Resp:	3445795
Ion Ratio	Lower	Upper	
202	100		
101	12.3	0.0	32.1
203	19.7	0.0	38.9





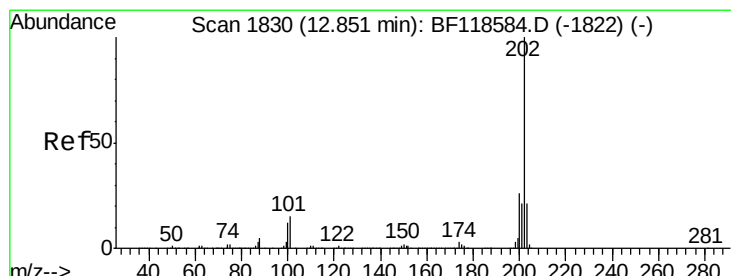
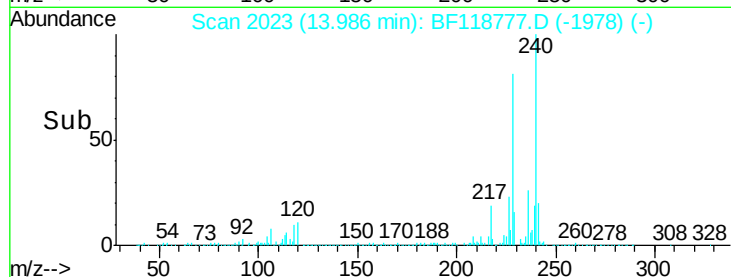
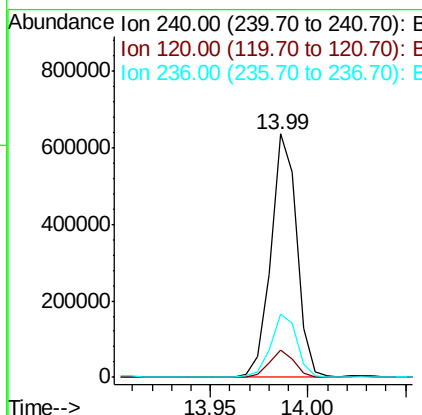
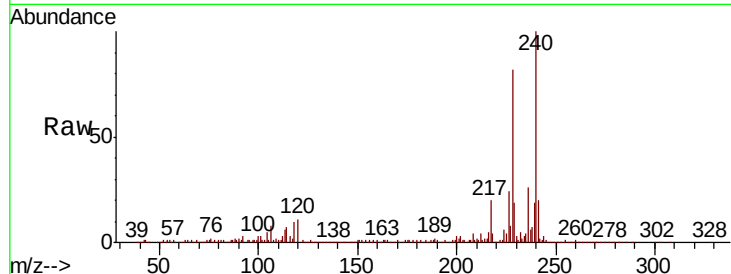
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2033
Delta R.T. -0.04 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Instrument :
BNA_F
ClientSampleId :
RAINEY-PARK-BH-06-A

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.2	7.6	11.4
236	26.0	21.0	31.4

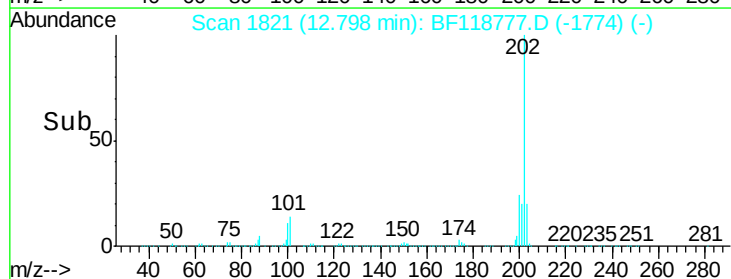
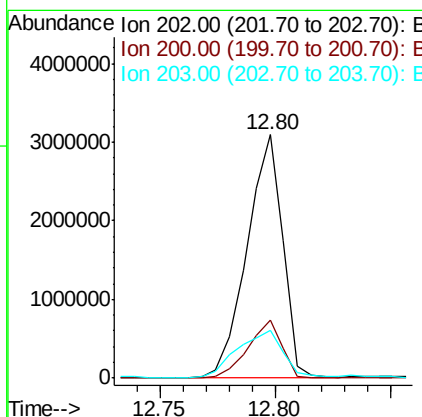
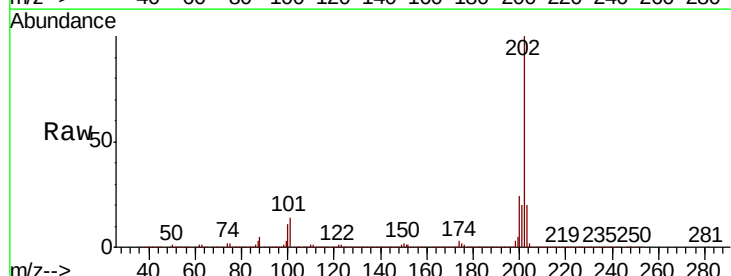
Manual Integrations
APPROVED

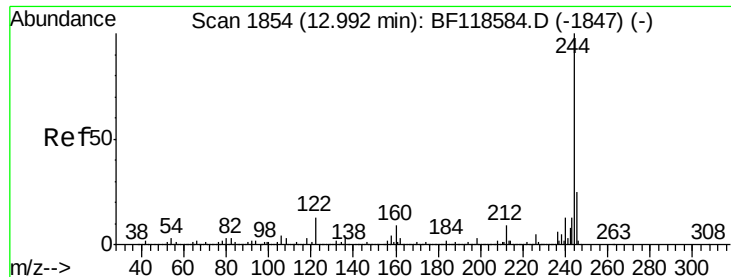
mohammad
2/3/2020 4:10:18 PM



#78
Pyrene
Concen: 84.163 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.02 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.8	18.1	27.1
203	19.8	15.2	22.8





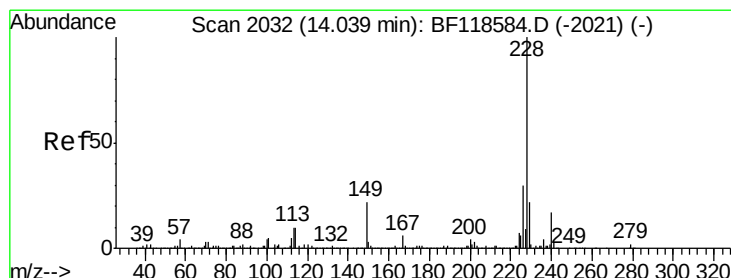
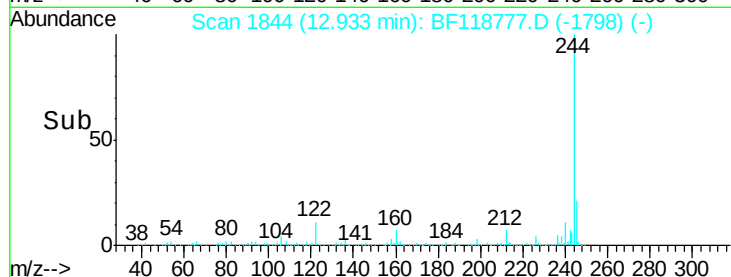
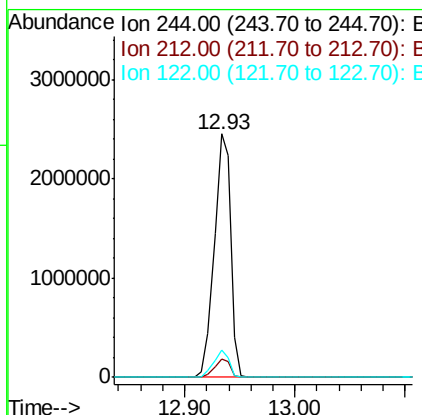
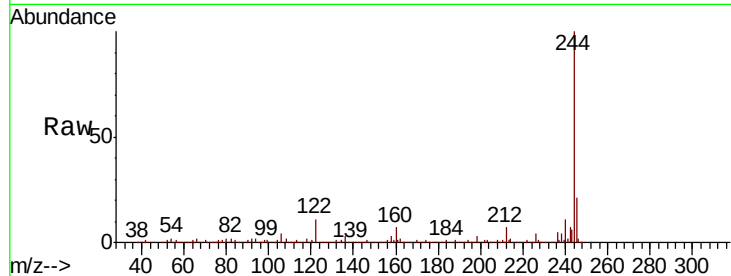
#79
 Terphenyl-d14
 Concen: 93.691 ng
 RT: 12.93 min Scan# 1844
 Delta R.T. -0.03 min
 Lab File: BF118777.D
 Acq: 31 Jan 2020 13:06

Instrument :
 BNA_F
 ClientSampleId :
 RAINEY-PARK-BH-06-A

Tot Ion:244 Resp: 2501868
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.3 9.5
 122 11.1 9.2 13.8

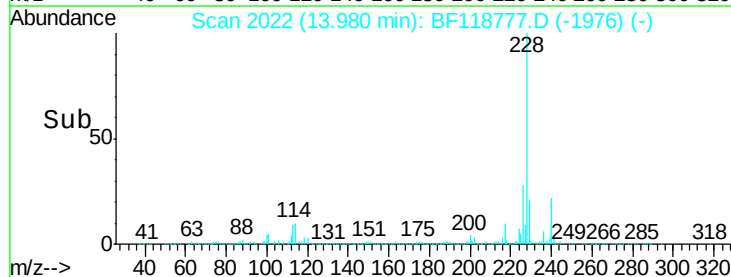
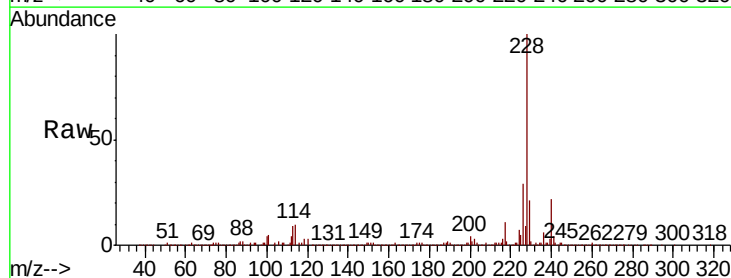
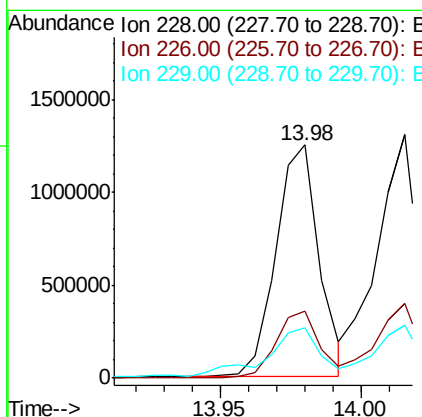
Manual Integrations
 APPROVED

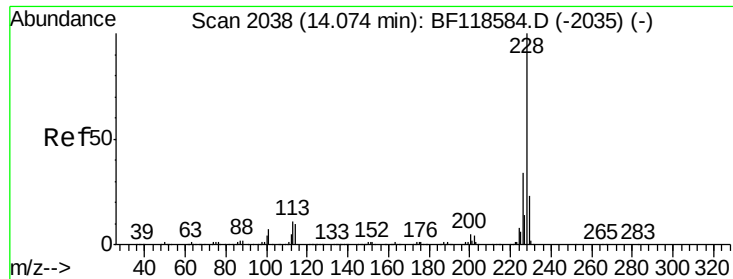
mohammad
 2/3/2020 4:10:18 PM



#81
 Benzo(a)anthracene
 Concen: 37.818 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. -0.03 min
 Lab File: BF118777.D
 Acq: 31 Jan 2020 13:06

Tgt Ion:228 Resp: 1325006
 Ion Ratio Lower Upper
 228 100
 226 28.6 22.6 34.0
 229 21.4 16.6 25.0





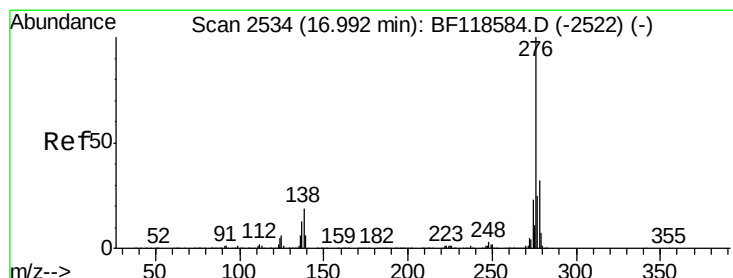
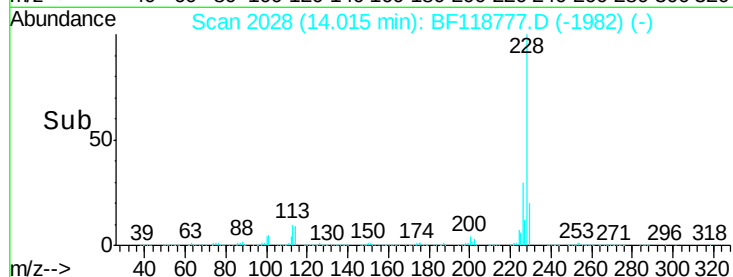
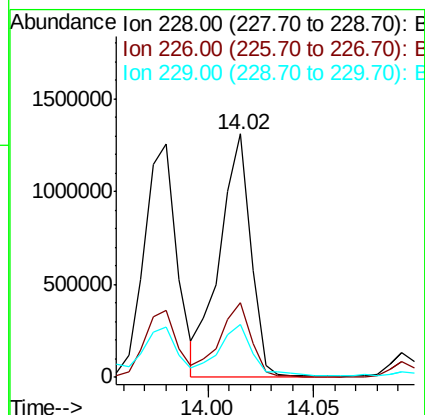
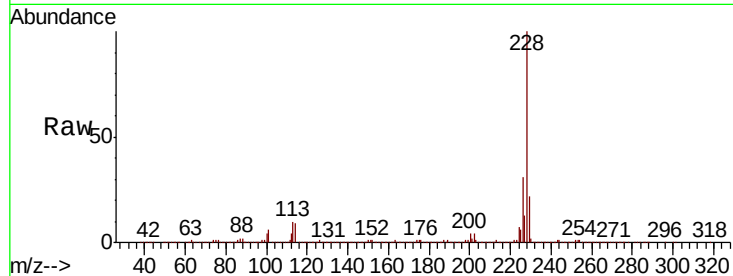
#83
Chrysene
Concen: 39.568 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.03 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Instrument :
BNA_F
ClientSampleId :
RAINEY-PARK-BH-06-A

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.6	38.4
229	22.0	17.1	25.7

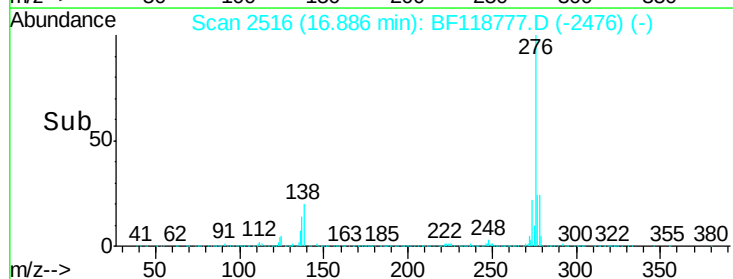
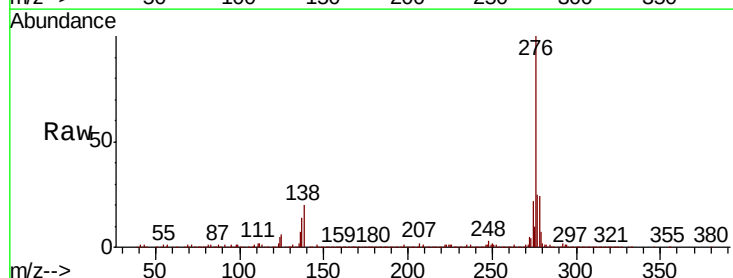
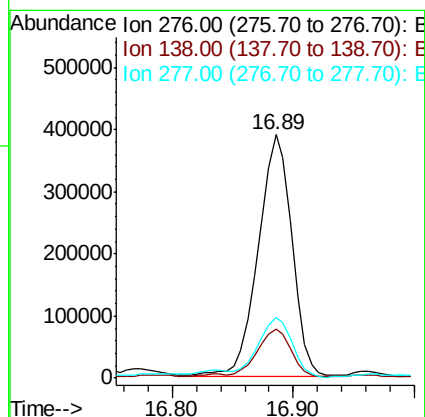
Manual Integrations
APPROVED

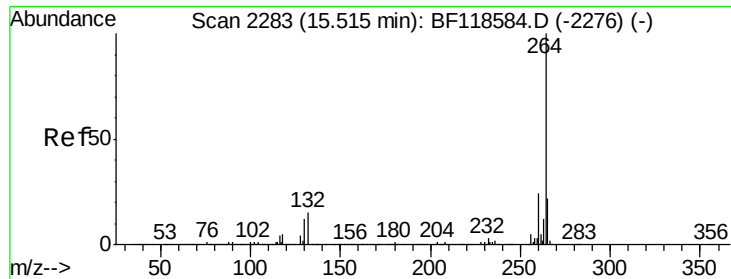
mohammad
2/3/2020 4:10:18 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 26.047 ng
RT: 16.89 min Scan# 2516
Delta R.T. -0.06 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.2	18.2	27.4
277	24.2	20.4	30.6





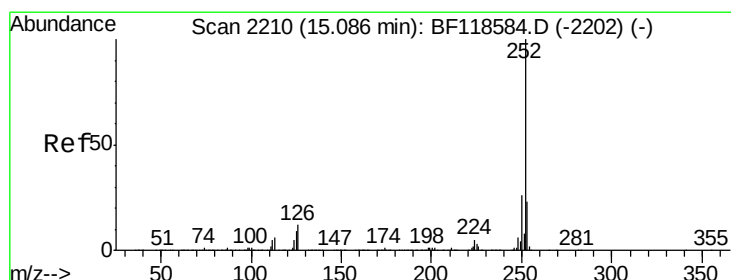
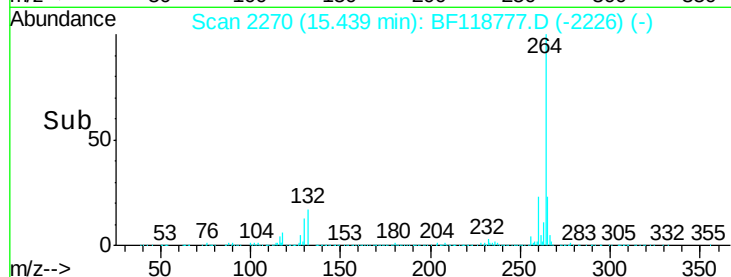
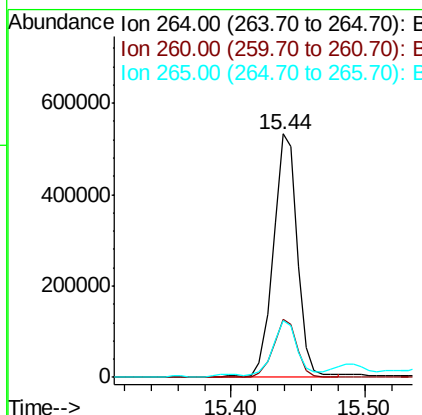
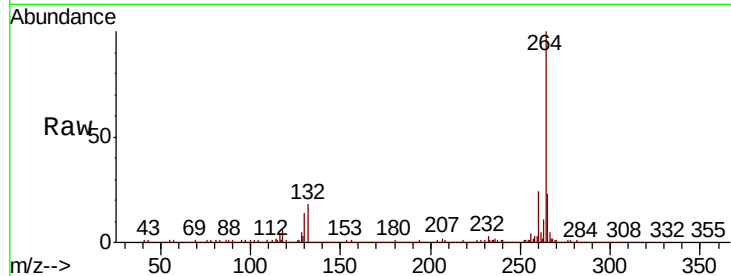
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.04 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Instrument :
BNA_F
ClientSampleId :
RAINEY-PARK-BH-06-A

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	23.1	17.0	25.6

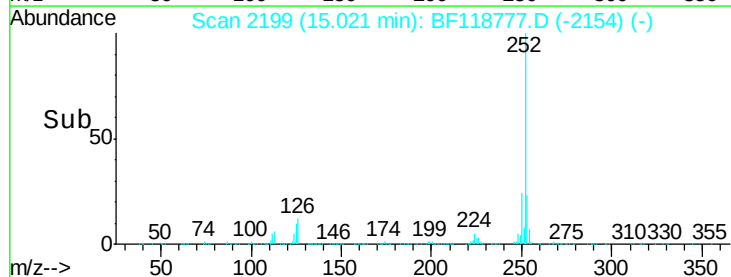
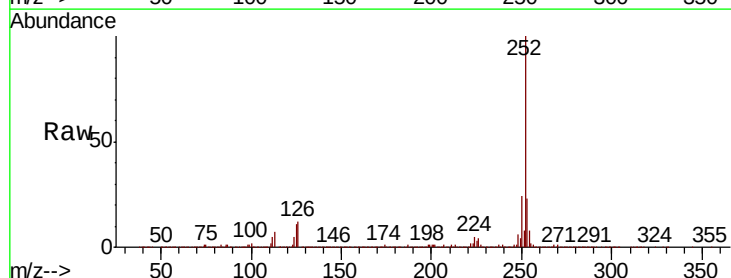
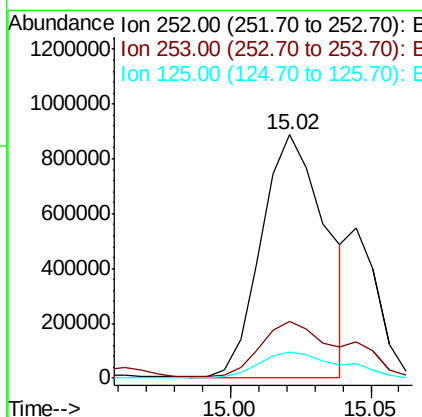
Manual Integrations
APPROVED

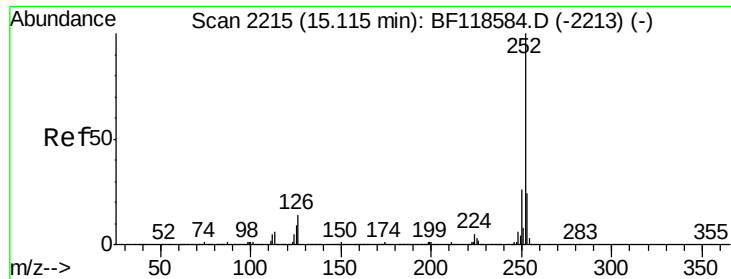
mohammad
2/3/2020 4:10:18 PM



#88
Benzo(b)fluoranthene
Concen: 33.957 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.04 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.4
125	10.6	7.7	11.5





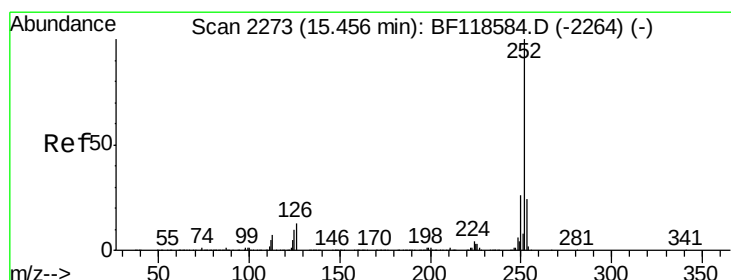
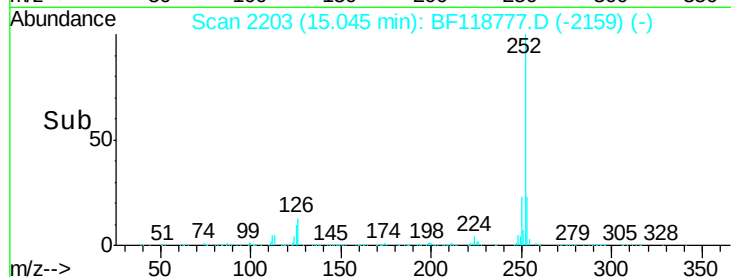
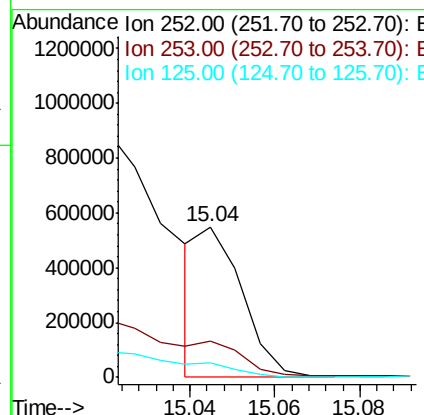
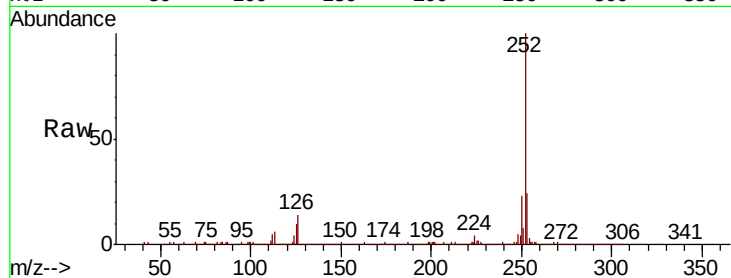
#89
Benzo(k)fluoranthene
Concen: 10.052 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.04 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Instrument :
BNA_F
ClientSampleId :
RAINEY-PARK-BH-06-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.4	27.6
125	10.0	8.1	12.1

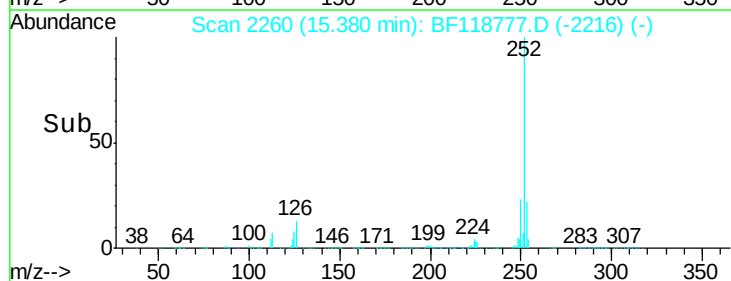
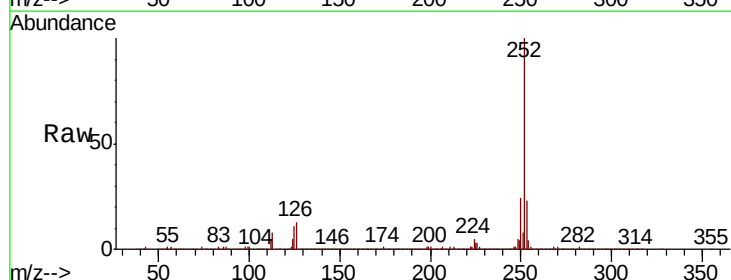
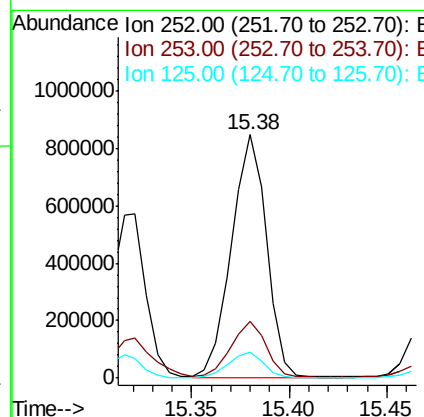
Manual Integrations
APPROVED

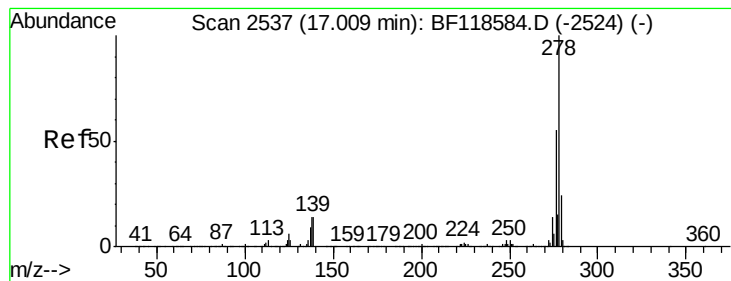
mohammad
2/3/2020 4:10:18 PM



#90
Benzo(a)pyrene
Concen: 29.046 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.04 min
Lab File: BF118777.D
Acq: 31 Jan 2020 13:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.4
125	10.5	8.3	12.5





#91

Dibenzo(a,h)anthracene

Concen: 6.393 ng

RT: 16.89 min Scan# 2517

Delta R.T. -0.08 min

Lab File: BF118777.D

Acq: 31 Jan 2020 13:06

Instrument :

BNA_F

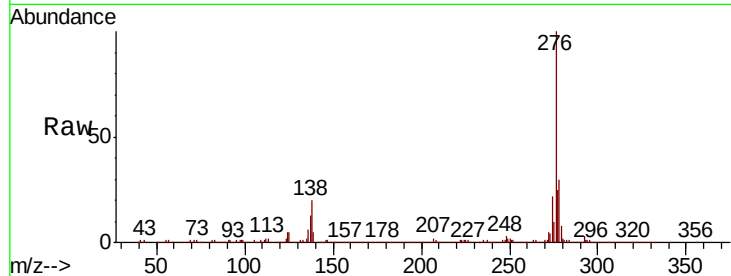
ClientSampleId :

RAINEY-PARK-BH-06-A

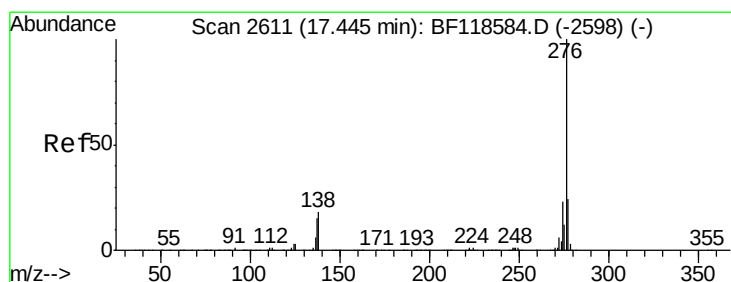
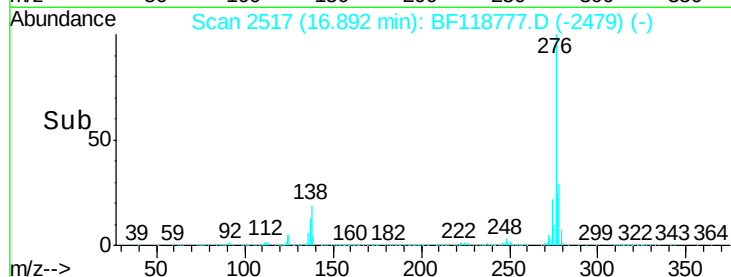
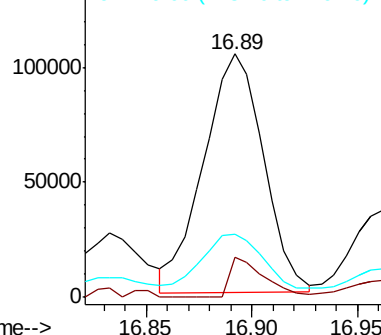
Tot Ion:	278	Resp:	204737
Ion Ratio	Lower	Upper	
278	100		
139	16.3	11.8	17.6
279	26.1	19.1	28.7

Manual Integrations
APPROVED

mohammad
2/3/2020 4:10:18 PM



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(g,h,i)perylene

Concen: 23.473 ng

RT: 17.33 min Scan# 2591

Delta R.T. -0.06 min

Lab File: BF118777.D

Acq: 31 Jan 2020 13:06

Tgt Ion:	276	Resp:	729887
Ion Ratio	Lower	Upper	
276	100		
277	23.7	19.0	28.6
138	19.9	15.4	23.2

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

