

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
 Data File : BF111328.D
 Acq On : 12 Dec 2018 18:20
 Operator : JU/SJ
 Sample : J6354-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL

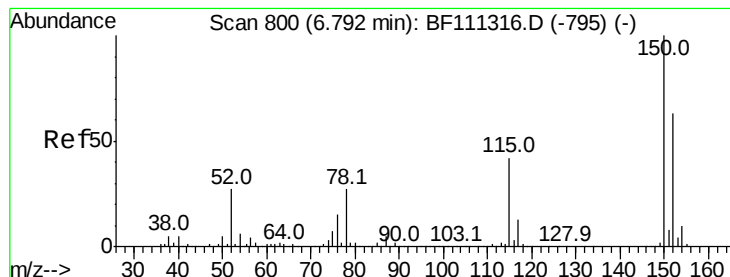
Manual Integrations
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Quant Time: Dec 13 03:14:11 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 12 13:16:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	273703	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	1097122	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	484094	20.00	ng	0.00
64) Phenanthrene-d10	11.31	188	674856	20.00	ng	0.00
76) Chrysene-d12	13.95	240	464984	20.00	ng	-0.01
87) Perylene-d12	15.39	264	376541	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	1661555	102.66	ng	0.00
7) Phenol-d6	6.43	99	2177621	99.79	ng	0.00
23) Nitrobenzene-d5	7.35	82	1364001	70.07	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	293402	68.76	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	2255108	74.79	ng	0.00
79) Terphenyl-d14	12.90	244	1332959	63.09	ng	0.00
Target Compounds						
10) Phenol	6.43	94	165444	6.693	ng	96
31) Naphthalene	8.09	128	584569	11.436	ng	96
37) 2-Methylnaphthalene	8.79	142	256213	7.754	ng	97
38) 1-Methylnaphthalene	8.89	142	172874	5.421	ng	95
50) Dimethylphthalate	9.54	163	172562	4.957	ng	99
52) Acenaphthene	9.86	154	114481	3.927	ng	99
55) Dibenzofuran	10.03	168	167943	3.991	ng	95
58) Fluorene	10.37	166	111609	3.708	ng	92
71) Phenanthrene	11.33	178	639985	18.347	ng	95
72) Anthracene	11.38	178	125210m	3.525	ng	
75) Fluoranthene	12.52	202	586393	17.220	ng	97
78) Pvrene	12.75	202	459748	12.811	ng	96
81) Benzo(a)anthracene	13.93	228	138180	5.311	ng	98
83) Chrysene	13.97	228	175099	6.597	ng	97
88) Benzo(b)fluoranthene	14.97	252	165272m	7.719	ng	
89) Benzo(k)fluoranthene	14.99	252	56793m	2.657	ng	
90) Benzo(a)pvrene	15.32	252	78952	3.960	ng	97
92) Benzo(g,h,i)perylene	17.21	276	36279	2.188	ng	93

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



#1

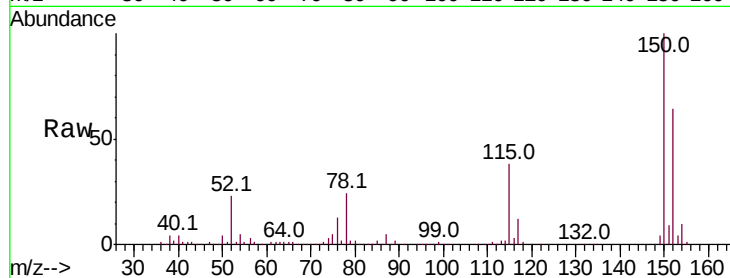
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.00 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Instrument :
BNA_F
ClientSampled :
SOIL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	126.6	189.8
115	59.6	50.7	76.1

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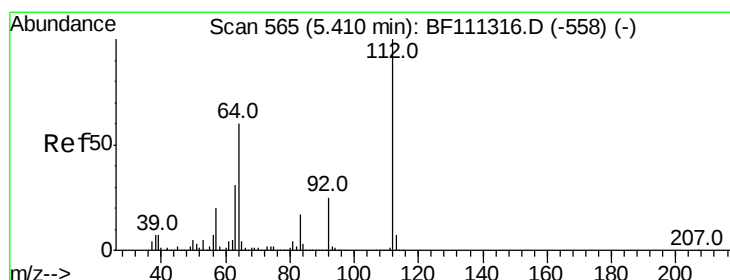
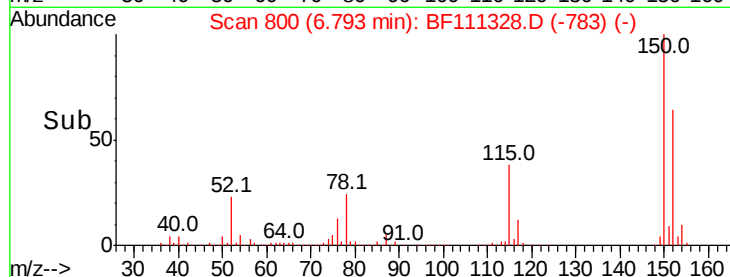
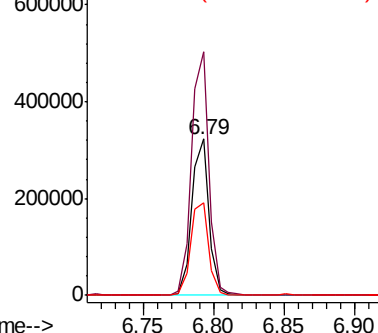


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

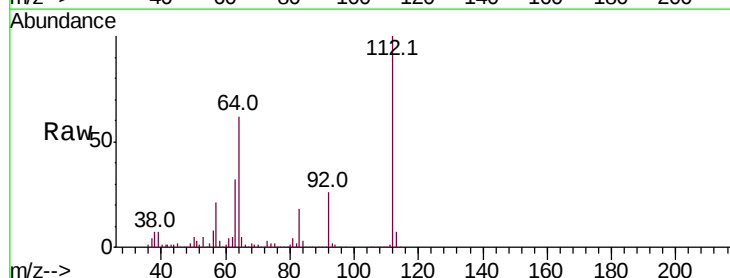
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 102.657 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.00 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.8	51.8	77.6
63	32.4	26.8	40.2

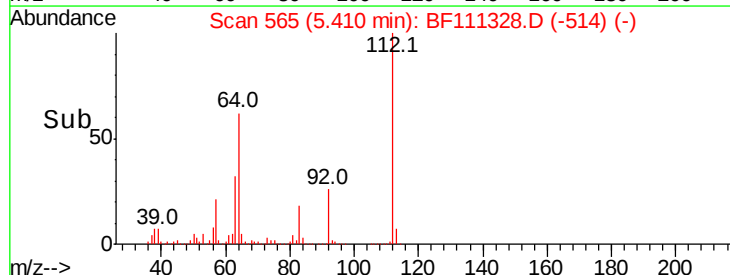
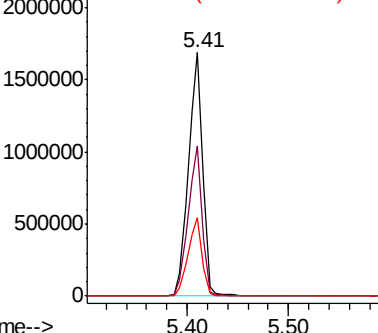


Abundance

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: 99.788 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF111328.D

Acq: 12 Dec 2018 18:20

Instrument :

BNA_F

ClientSampled :

SOIL

Tot Ion: 99 Resp: 2177621

Ion Ratio Lower Upper

99 100

42 21.4 17.4 26.0

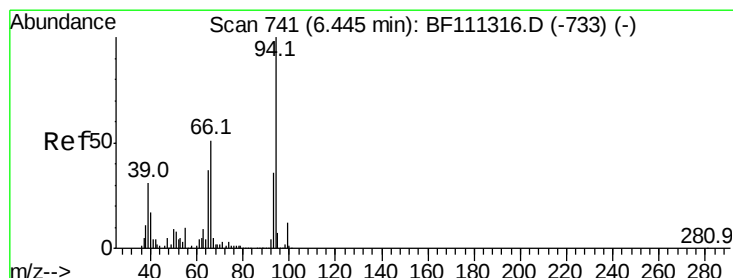
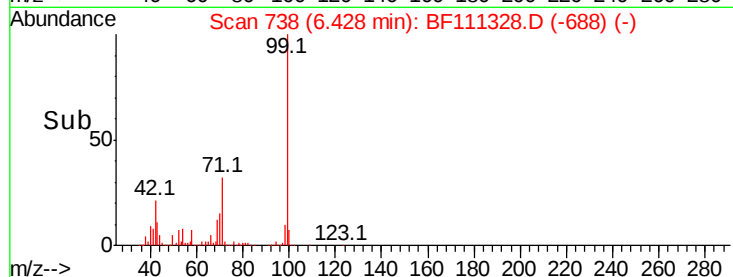
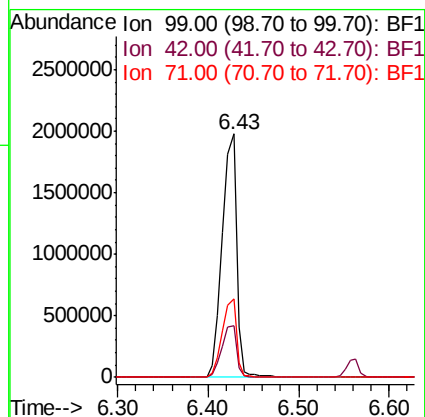
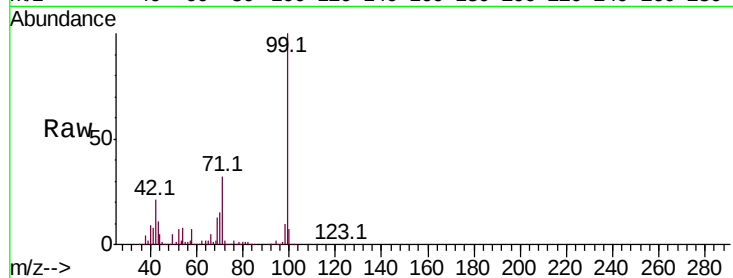
71 32.0 26.1 39.1

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#10

Phenol

Concen: 6.693 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF111328.D

Acq: 12 Dec 2018 18:20

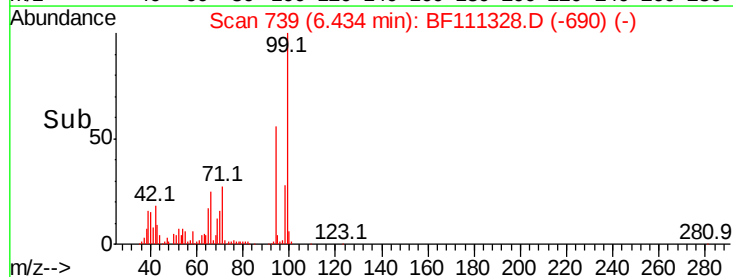
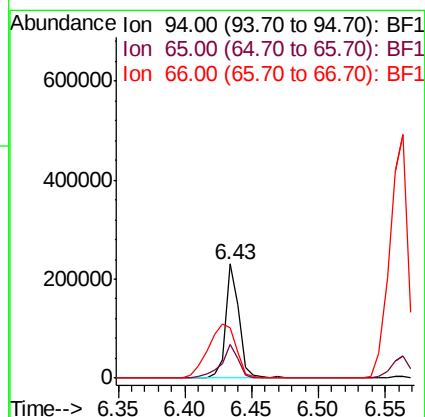
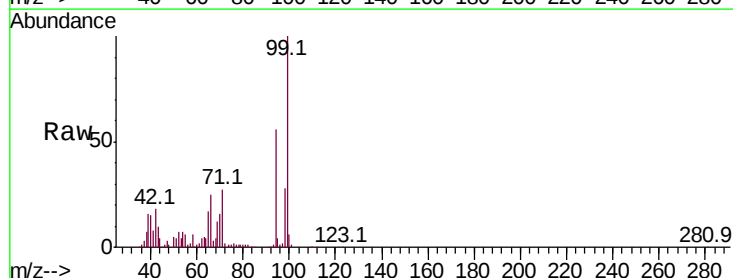
Tgt Ion: 94 Resp: 165444

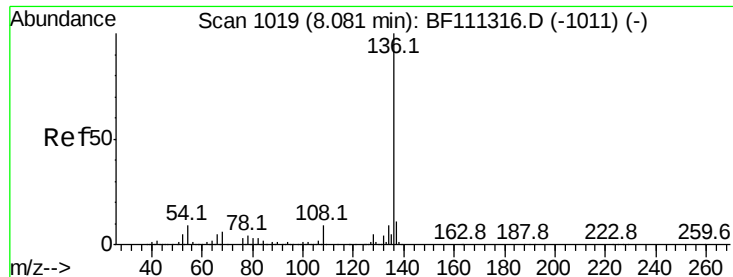
Ion Ratio Lower Upper

94 100

65 29.6 11.7 51.7

66 44.1 21.0 61.0





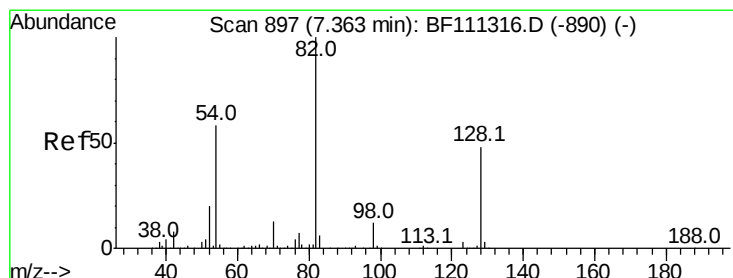
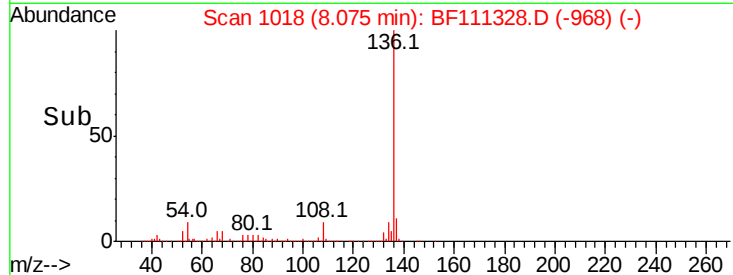
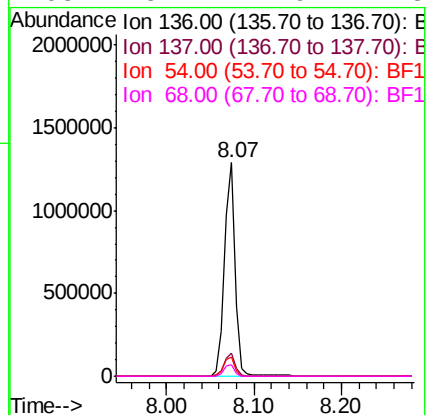
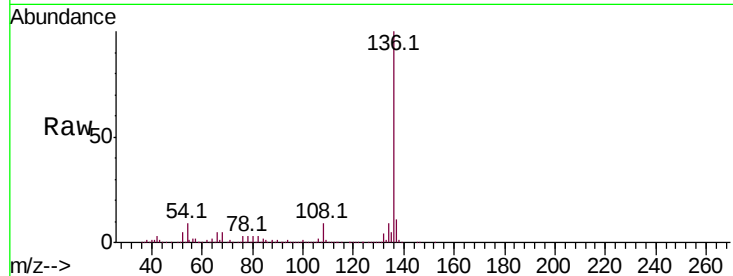
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.07 min Scan# 1018
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Instrument :
BNA_F
ClientSampleId :
SOIL

Tot Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	9.2	7.7	11.5
68	5.4	4.9	7.3

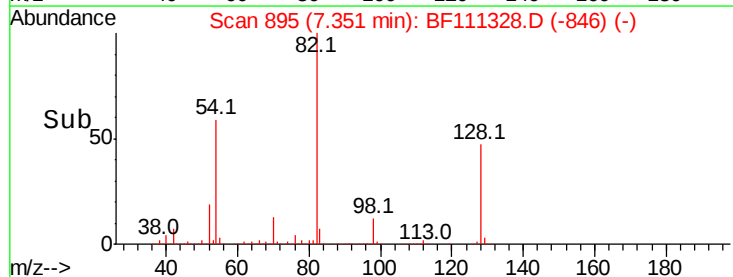
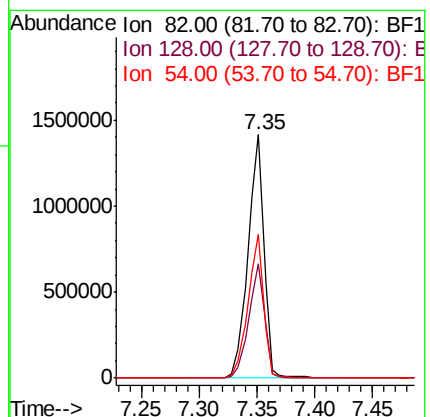
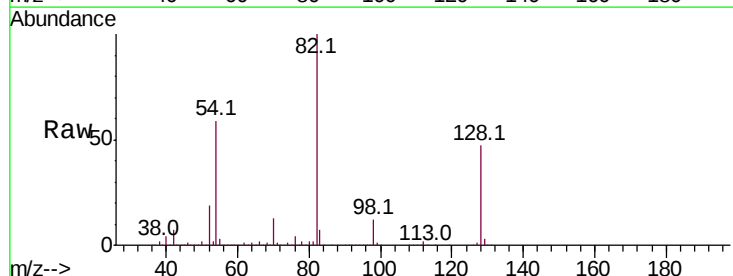
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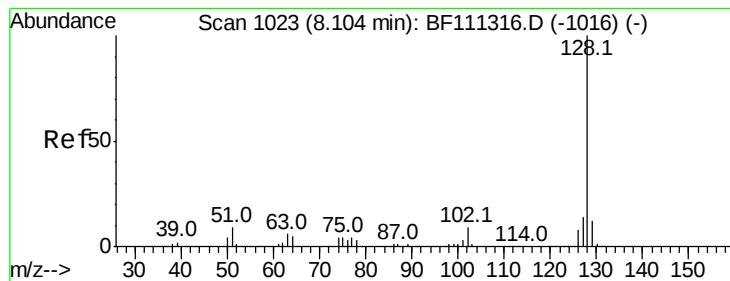
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#23
Nitrobenzene-d5
Concen: 70.074 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.0	37.4	56.2
54	59.1	47.6	71.4





#31

Naphthalene

Concen: 11.436 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF111328.D

Acq: 12 Dec 2018 18:20

Instrument :

BNA_F

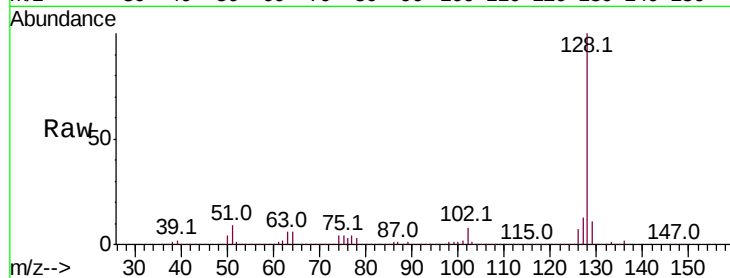
ClientSampled :

SOIL

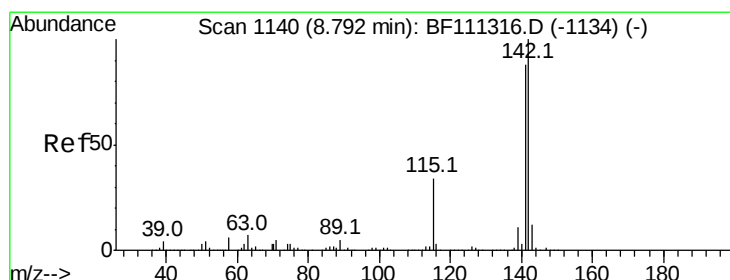
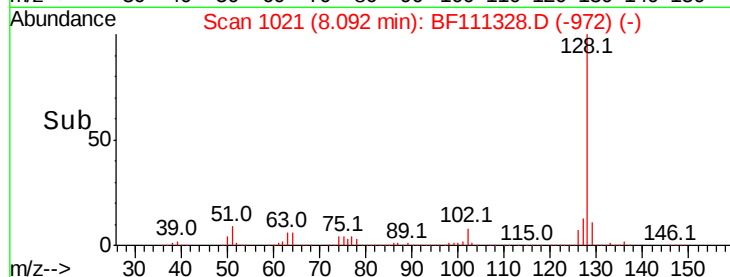
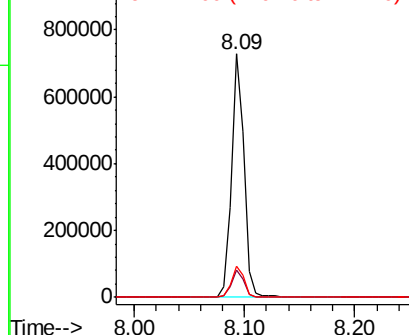
Tot Ion:	128	Resp:	584569
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.8	14.8
127	12.8	12.0	18.0

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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: 7.754 ng

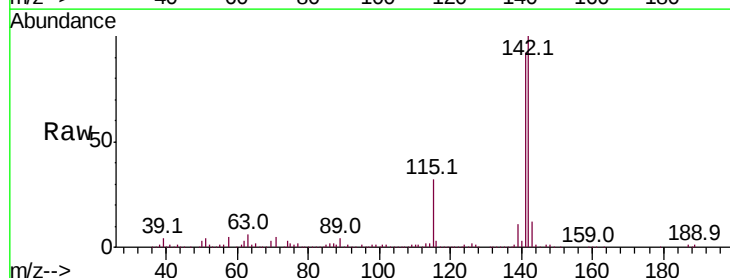
RT: 8.79 min Scan# 1139

Delta R.T. -0.01 min

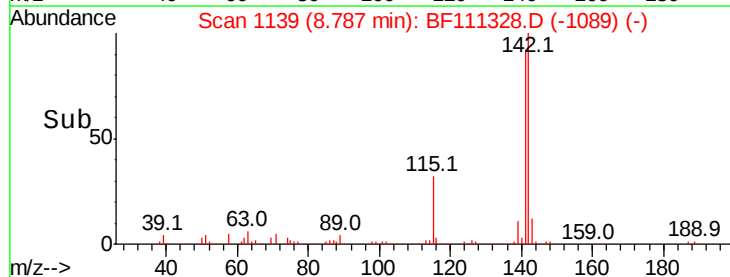
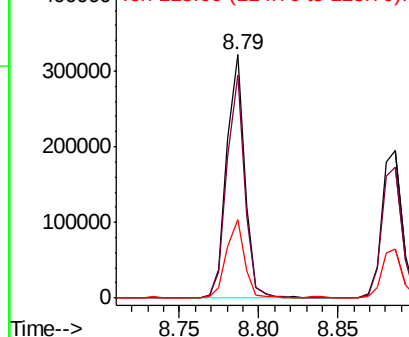
Lab File: BF111328.D

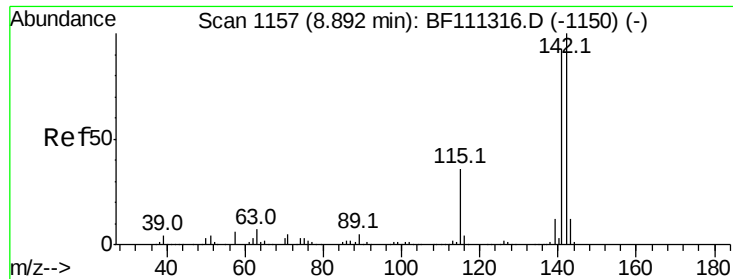
Acq: 12 Dec 2018 18:20

Tgt Ion:	142	Resp:	256213
Ion Ratio	Lower	Upper	
142	100		
141	91.6	70.6	105.8
115	32.0	27.0	40.6



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





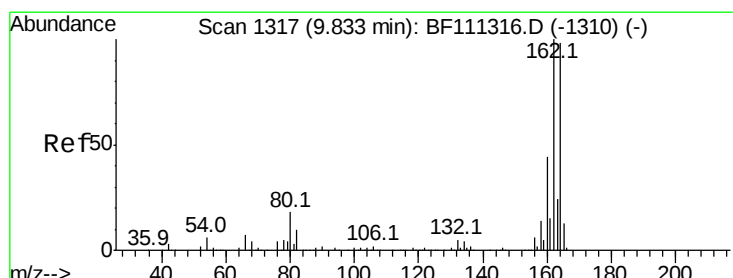
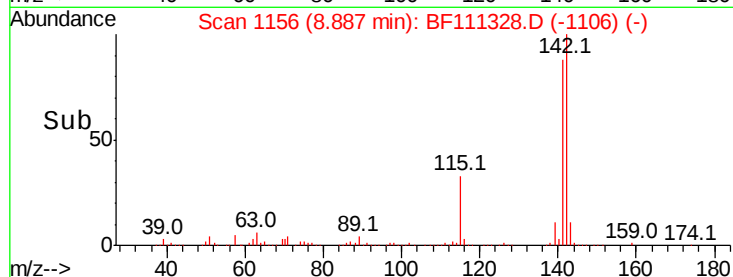
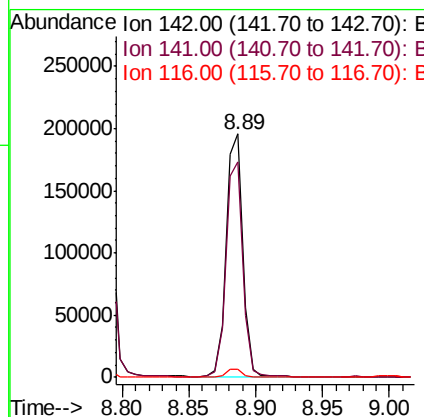
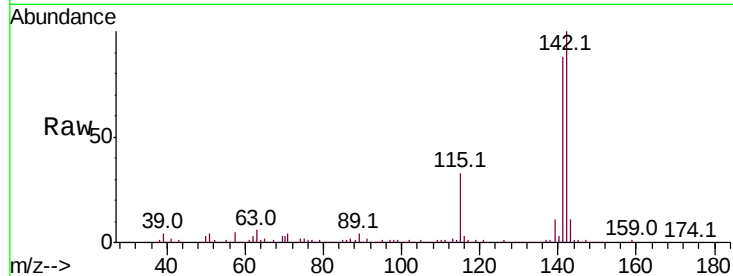
#38
1-Methylnaphthalene
Concen: 5.421 ng
RT: 8.89 min Scan# 1156
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Instrument :
BNA_F
ClientSampled :
SOIL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	172874		
141	88.3	74.2	111.4	
116	3.5	2.9	4.3	

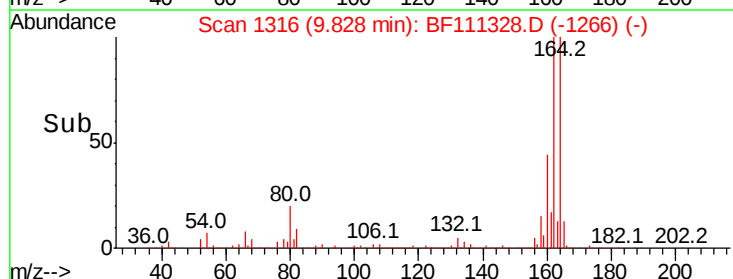
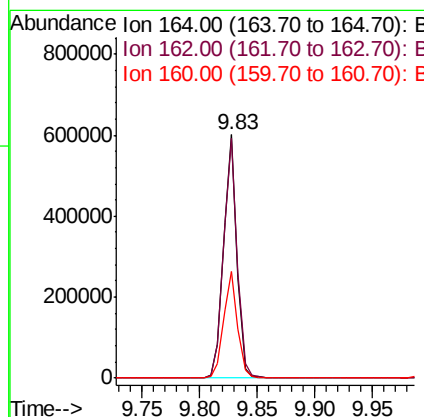
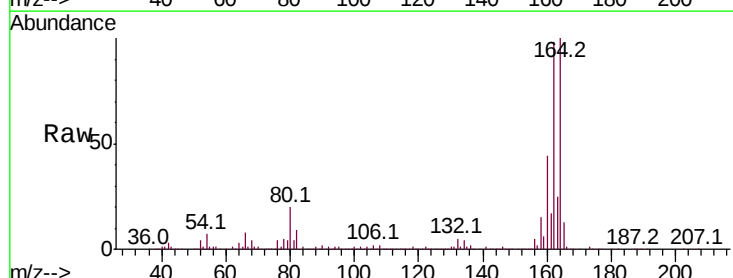
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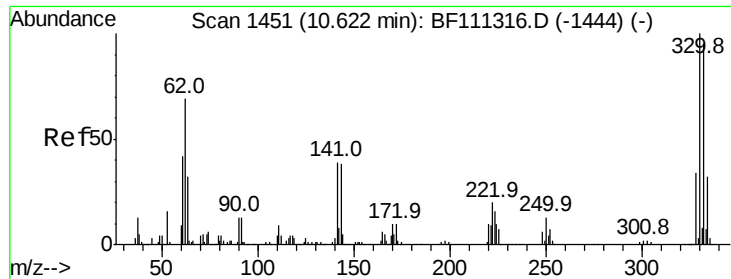
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	484094		
162	98.5	81.4	122.0	
160	43.8	35.7	53.5	





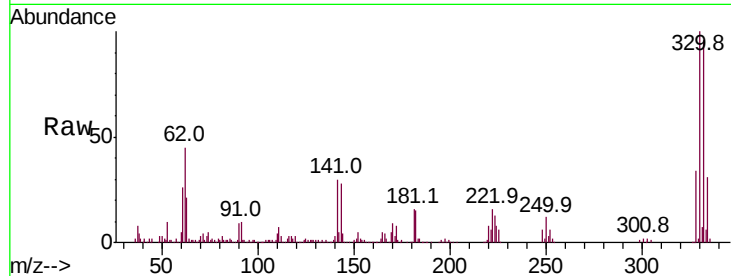
#42
 2,4,6-Tribromophenol
 Concen: 68.755 ng
 RT: 10.62 min Scan# 1450
 Delta R.T. -0.01 min
 Lab File: BF111328.D
 Acq: 12 Dec 2018 18:20

Instrument :
 BNA_F
 ClientSampled :
 SOIL

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.0	114.0
141	38.4	31.0	46.6

Manual Integrations
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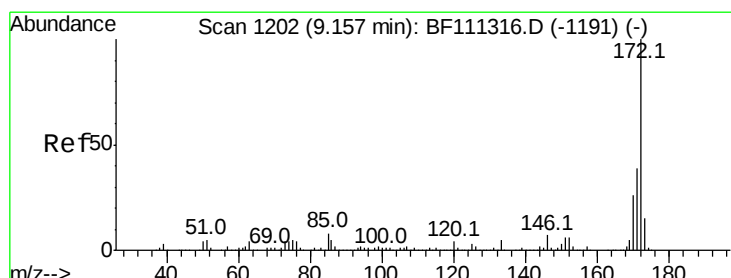
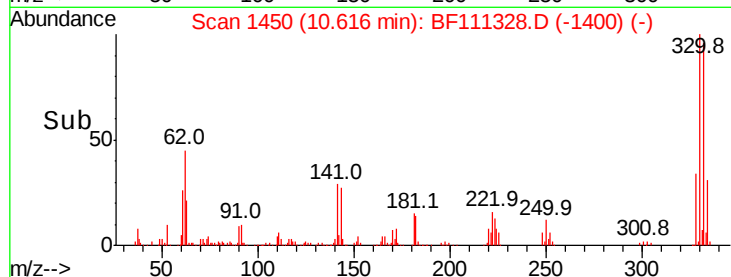
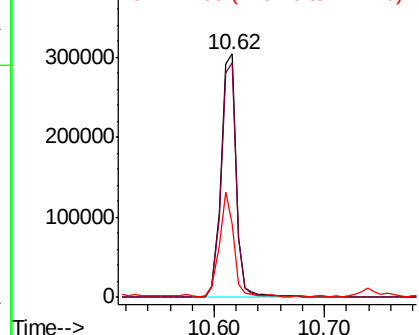


Abundance

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: 74.790 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: BF111328.D
 Acq: 12 Dec 2018 18:20

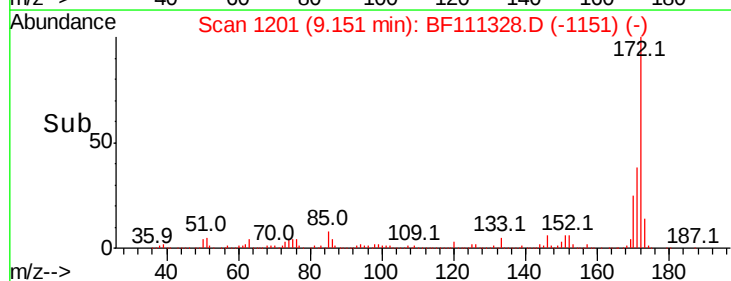
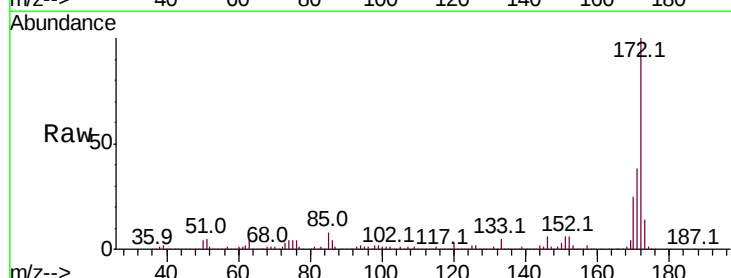
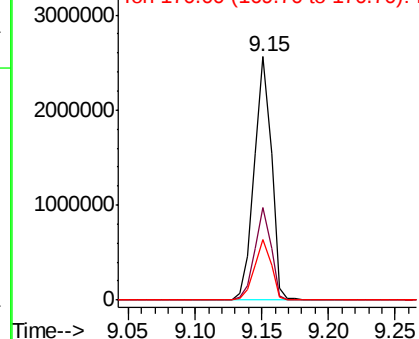
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.8	33.0	49.4
170	25.1	22.3	33.5

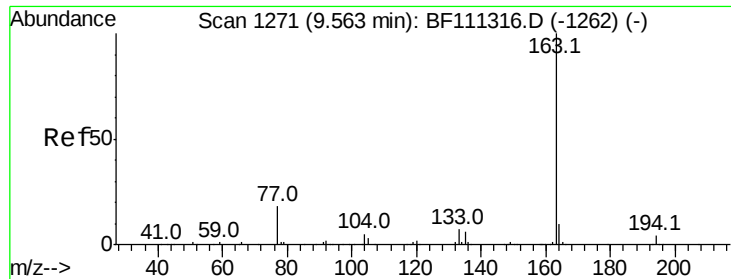
Abundance

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





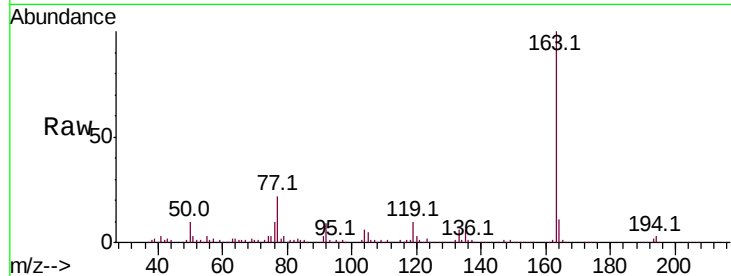
#50
Dimethylphthalate
Concen: 4.957 ng
RT: 9.54 min Scan# 1267
Delta R.T. -0.02 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Instrument :
BNA_F
ClientSampleId :
SOIL

Tot Ion	Ratio	Resp	Lower	Upper
163	100	172562		
194	3.3		3.0	4.6
164	10.6		8.9	13.3

Manual Integrations
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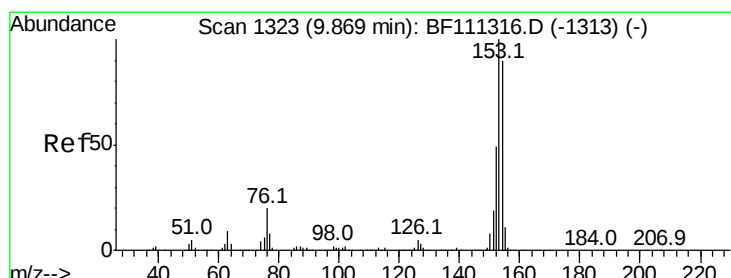
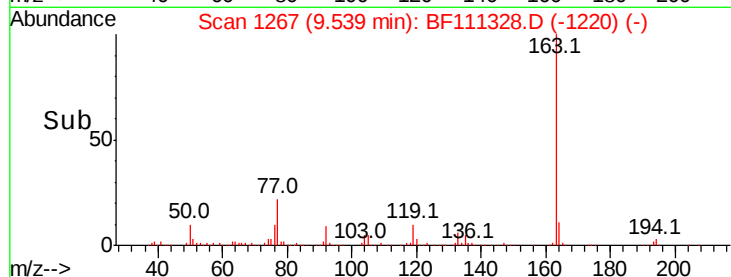
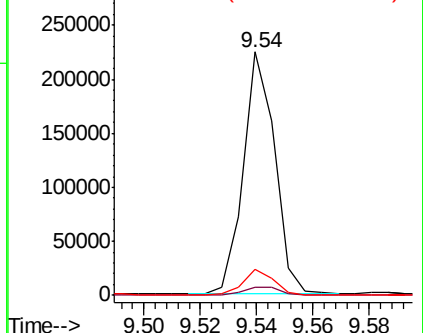


Abundance

Ion 163.00 (162.70 to 163.70): E

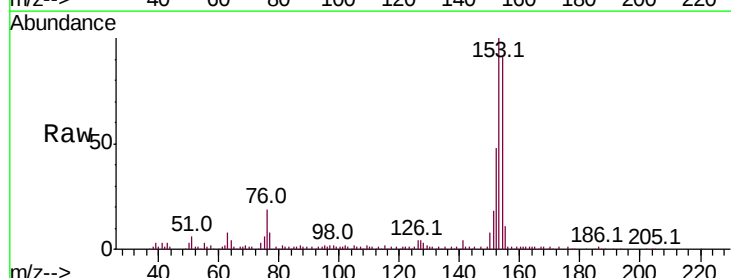
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 3.927 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	114481		
153	110.5		87.8	131.8
152	52.5		43.4	65.2

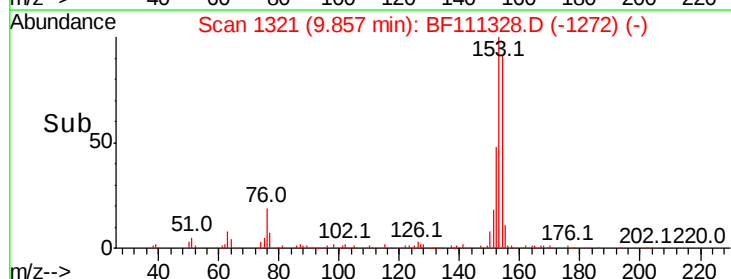
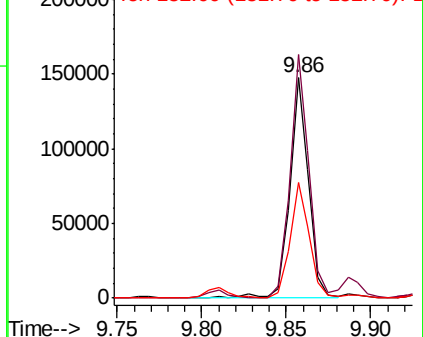


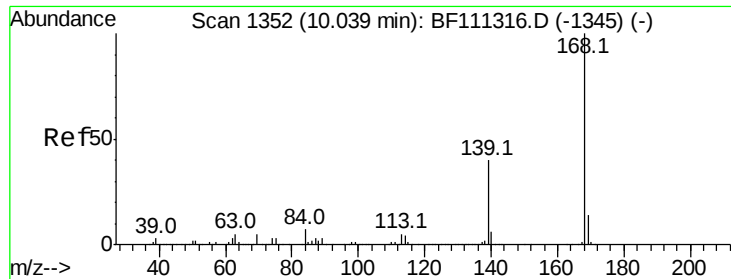
Abundance

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





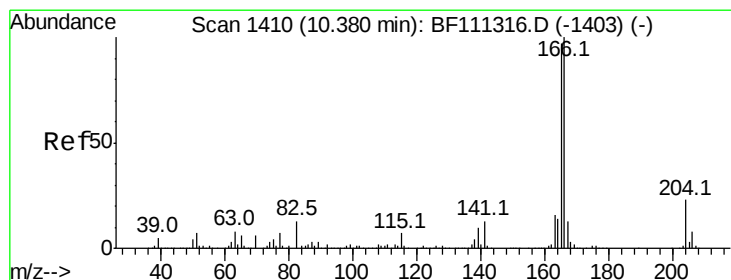
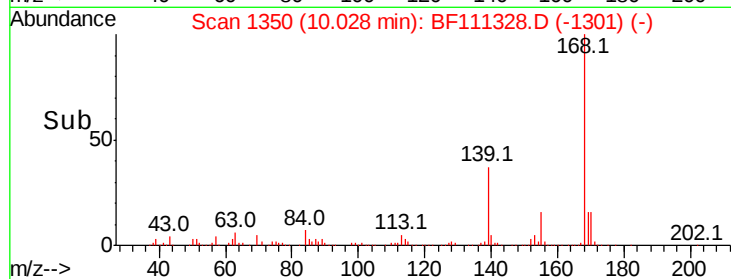
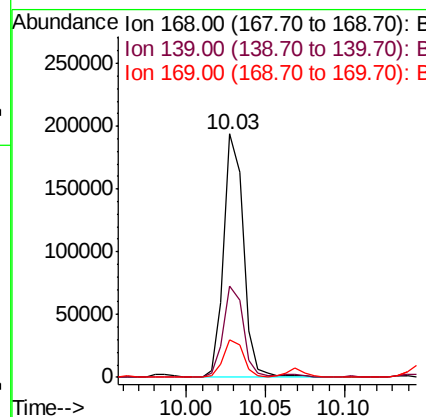
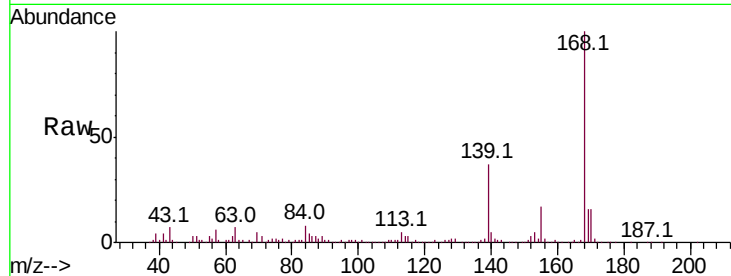
#55
Dibenzenofuran
Concen: 3.991 ng
RT: 10.03 min Scan# 1350
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Instrument :
BNA_F
ClientSampled :
SOIL

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.4	32.6	49.0
169	15.6	11.8	17.6

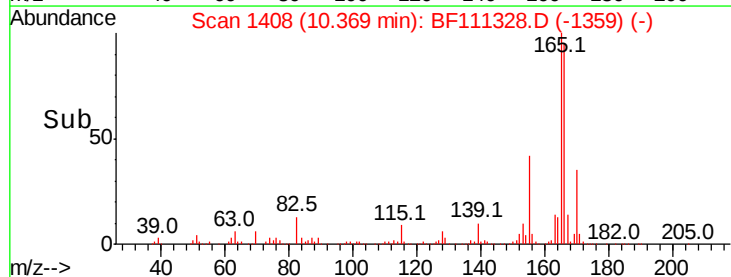
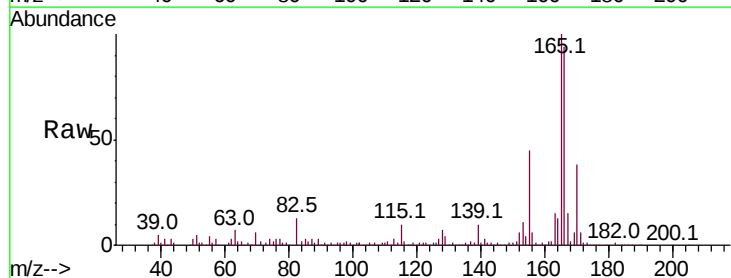
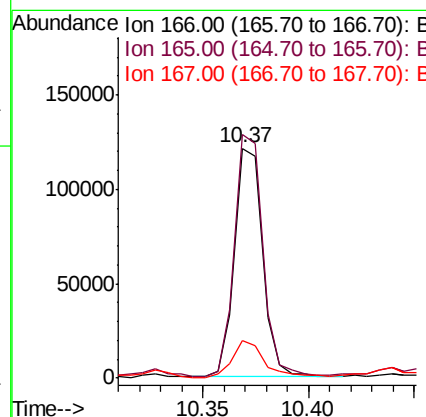
Manual Integrations
APPROVED

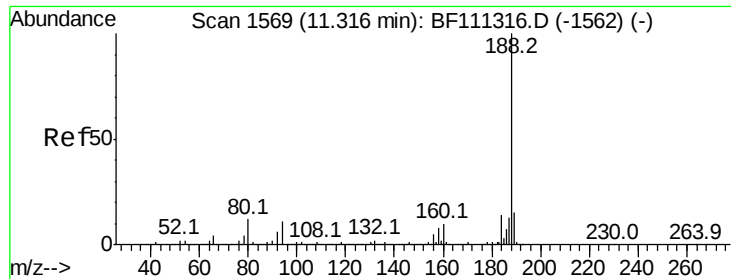
Sohil
12/13/2018 6:06:11 PM



#58
Fluorene
Concen: 3.708 ng
RT: 10.37 min Scan# 1408
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Tgt Ion	Ratio	Lower	Upper
166	100		
165	105.9	78.4	117.6
167	16.0	11.2	16.8





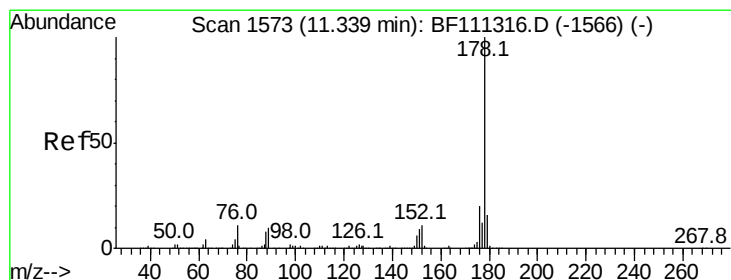
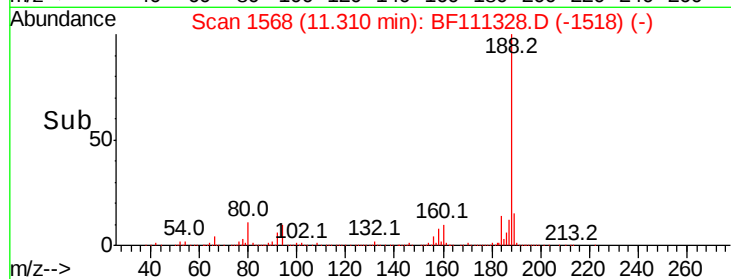
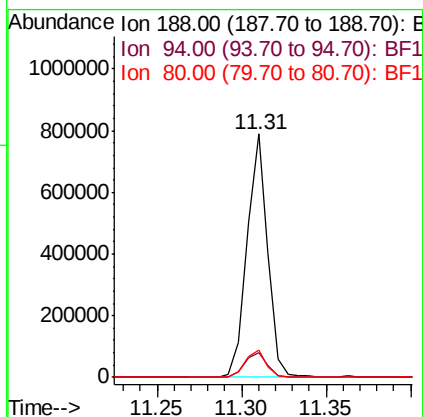
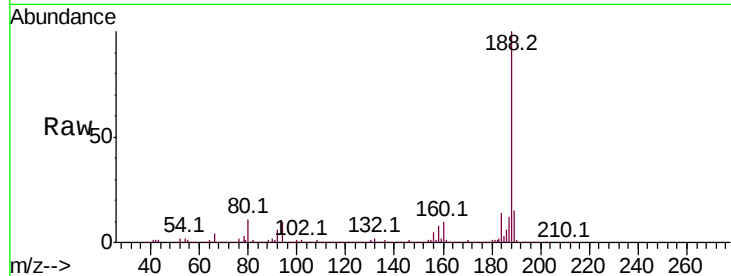
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.31 min Scan# 1568
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Instrument :
BNA_F
ClientSampled :
SOIL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.4	9.6	14.4
80	11.1	9.8	14.6

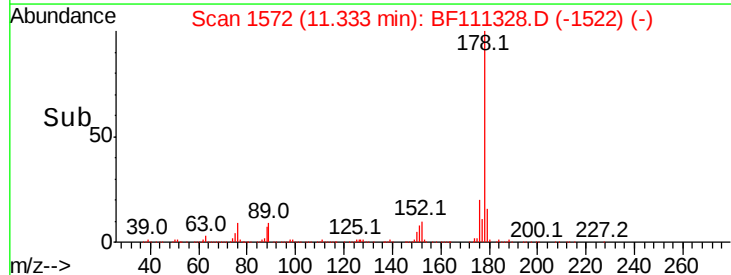
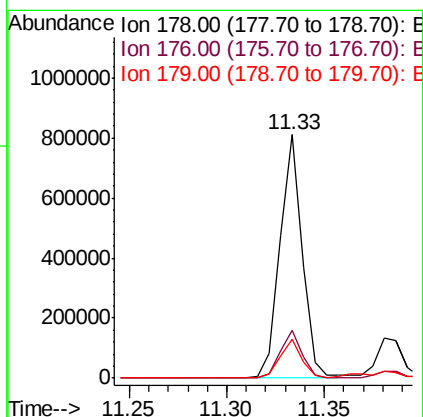
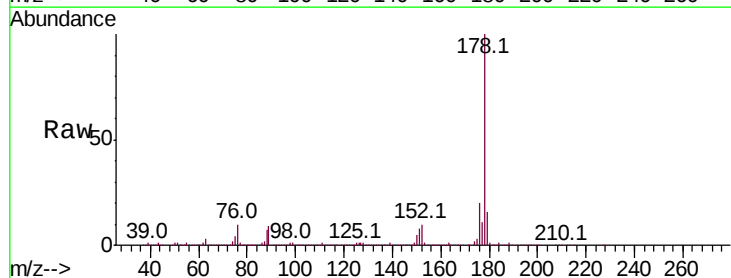
Manual Integrations
APPROVED

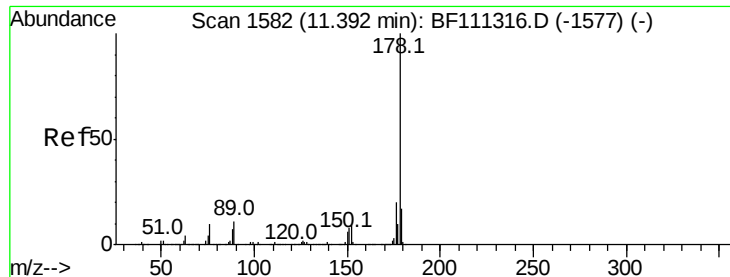
Sohil
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#71
Phenanthrene
Concen: 18.347 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.5	18.1	27.1
179	15.8	14.0	21.0





#72

Anthracene

Concen: 3.525 ng/mL

RT: 11.38 min Scan# 1580

Delta R.T. -0.01 min

Lab File: BF111328.D

Acq: 12 Dec 2018 18:20

Instrument :

BNA_F

ClientSampled :

SOIL

Tot Ion:178 Resp: 125210

Ion Ratio Lower Upper

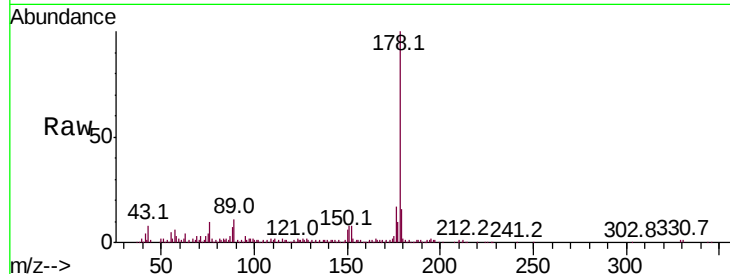
178 100

176 17.1 17.2 25.8#

179 16.0 13.8 20.8

Manual Integrations
APPROVED

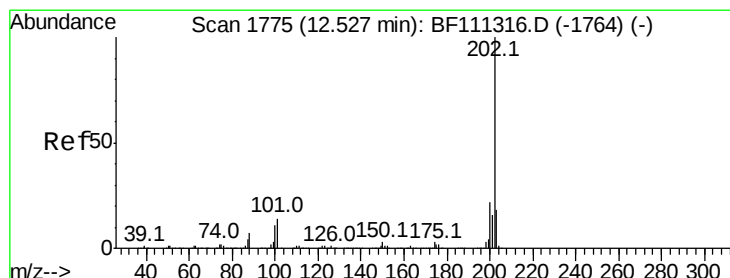
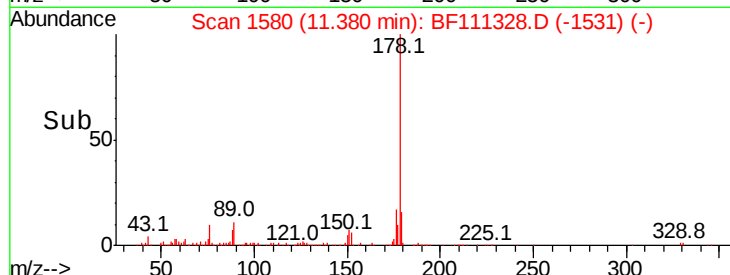
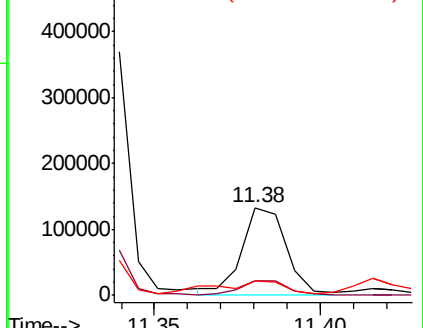
Sohil
12/13/2018 6:06:11 PM



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



#75

Fluoranthene

Concen: 17.220 ng/mL

RT: 12.52 min Scan# 1774

Delta R.T. -0.01 min

Lab File: BF111328.D

Acq: 12 Dec 2018 18:20

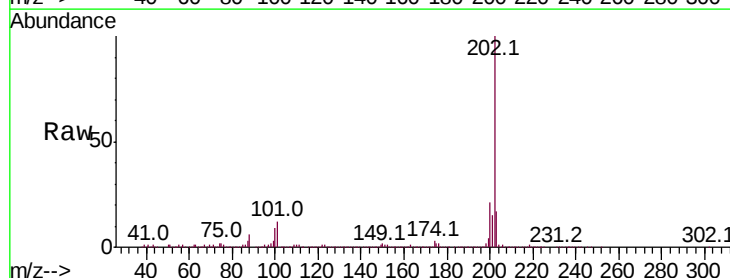
Tgt Ion:202 Resp: 586393

Ion Ratio Lower Upper

202 100

101 12.2 0.0 33.8

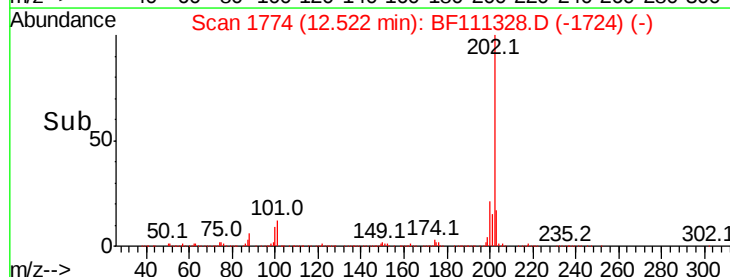
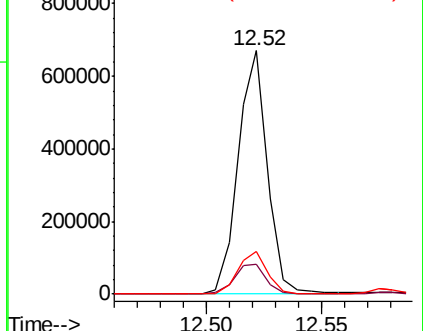
203 17.3 0.0 38.6

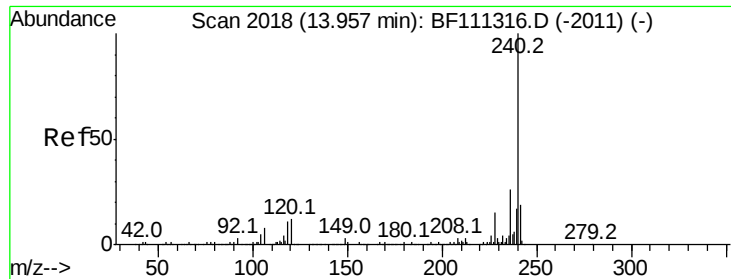


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





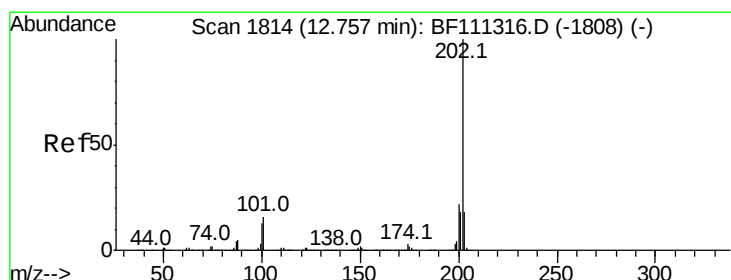
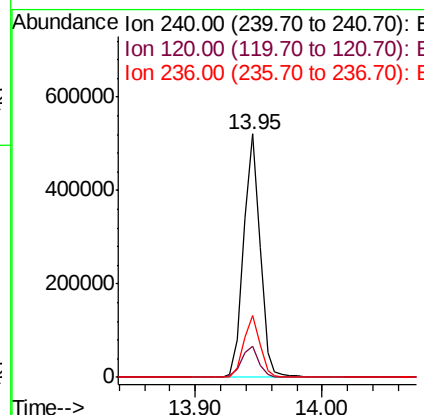
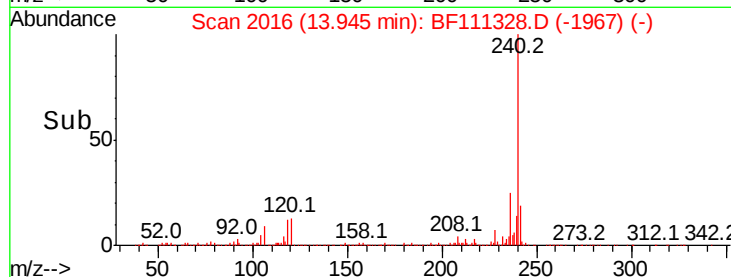
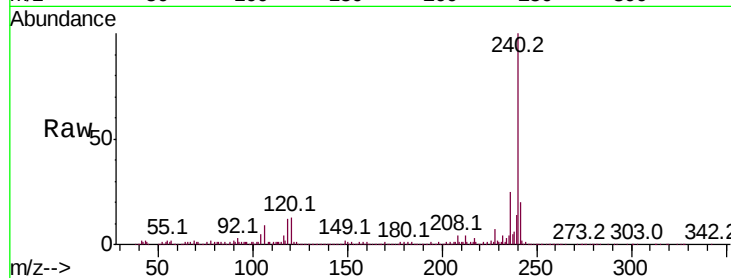
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.95 min Scan# 2016
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Instrument :
BNA_F
ClientSampleId :
SOIL

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.7	12.2	18.2
236	25.4	20.2	30.2

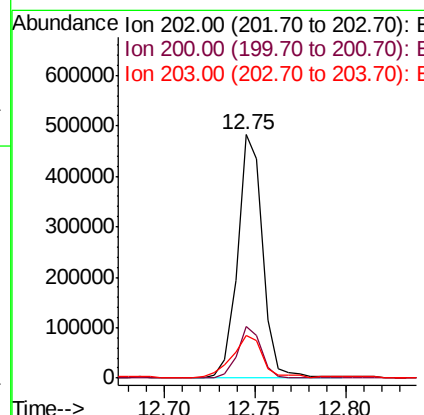
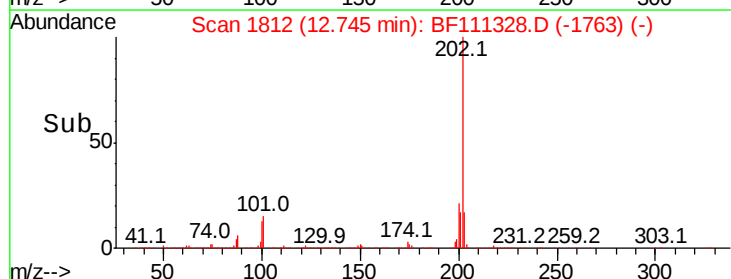
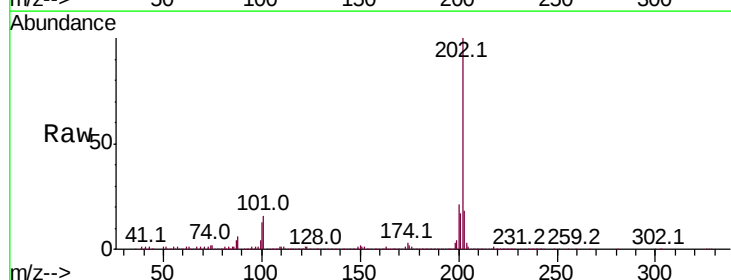
Manual Integrations
APPROVED

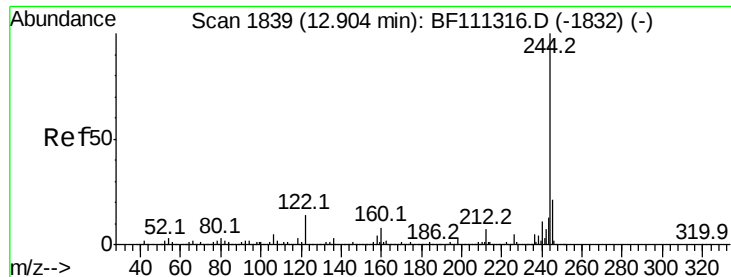
Sohil
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#78
Pyrene
Concen: 12.811 ng
RT: 12.75 min Scan# 1812
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	19.0	28.4
203	17.6	15.2	22.8





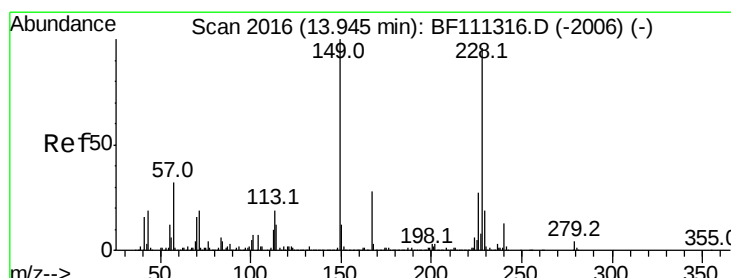
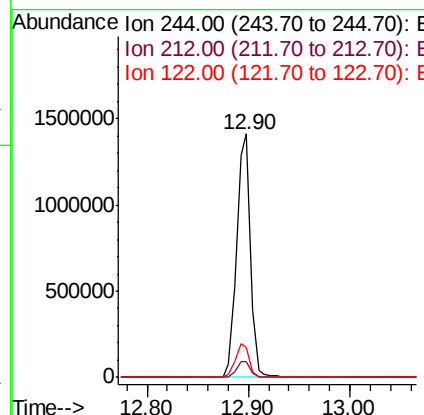
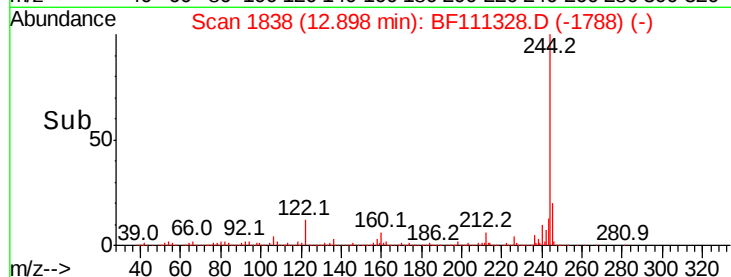
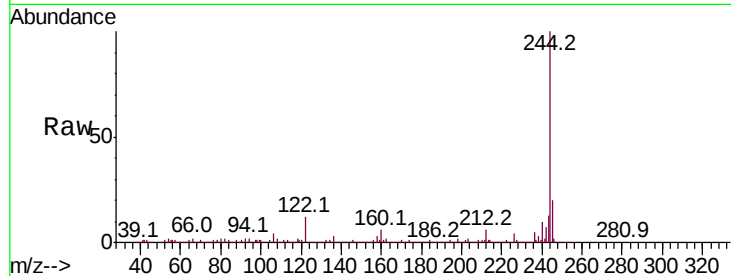
#79
 Terphenyl-d14
 Concen: 63.094 ng
 RT: 12.90 min Scan# 1838
 Delta R.T. -0.01 min
 Lab File: BF111328.D
 Acq: 12 Dec 2018 18:20

Instrument :
 BNA_F
 ClientSampled :
 SOIL

Tot Ion:244 Resp: 1332959
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.7 8.5
 122 12.4 13.1 19.7#

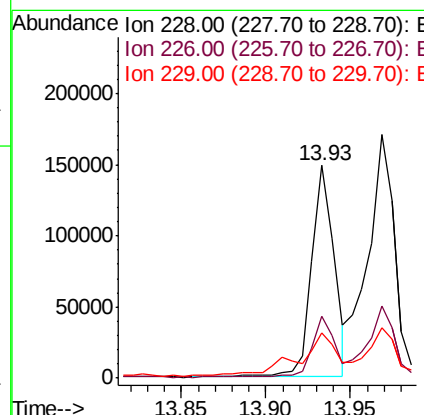
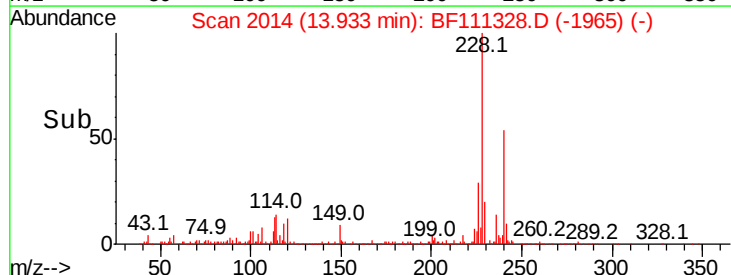
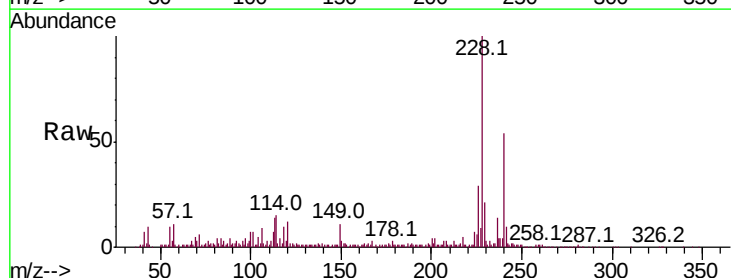
Manual Integrations
 APPROVED

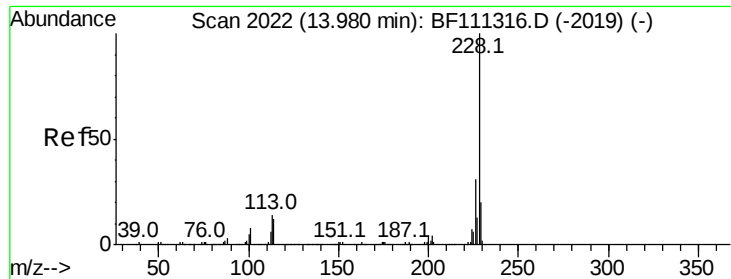
Sohil
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#81
 Benzo(a)anthracene
 Concen: 5.311 ng
 RT: 13.93 min Scan# 2014
 Delta R.T. -0.01 min
 Lab File: BF111328.D
 Acq: 12 Dec 2018 18:20

Tgt Ion:228 Resp: 138180
 Ion Ratio Lower Upper
 228 100
 226 29.4 22.6 34.0
 229 21.3 16.3 24.5





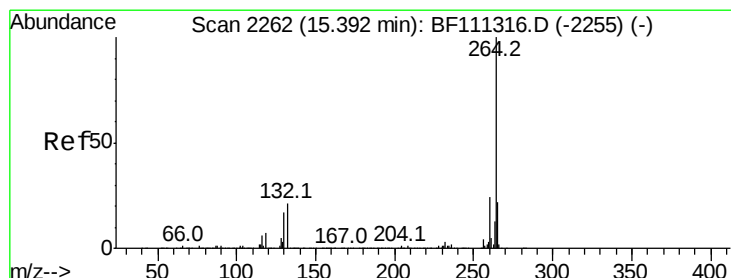
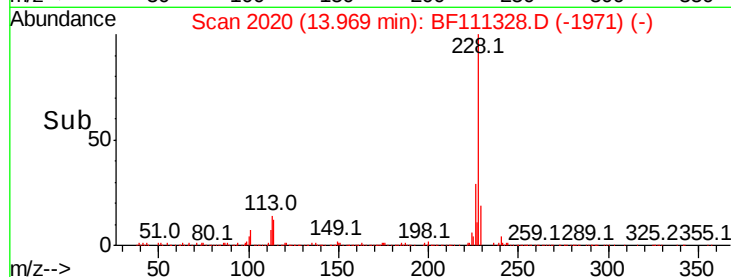
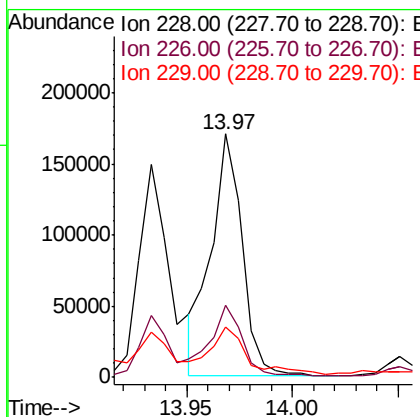
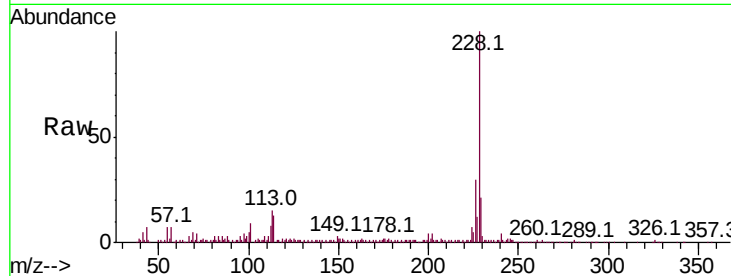
#83
Chrysene
Concen: 6.597 ng
RT: 13.97 min Scan# 2020
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Instrument :
BNA_F
ClientSampled :
SOIL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.3	37.9
229	20.7	17.2	25.8

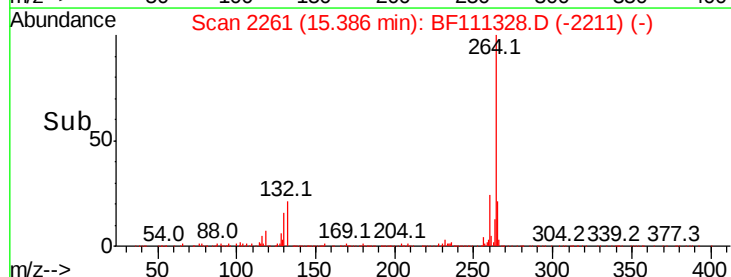
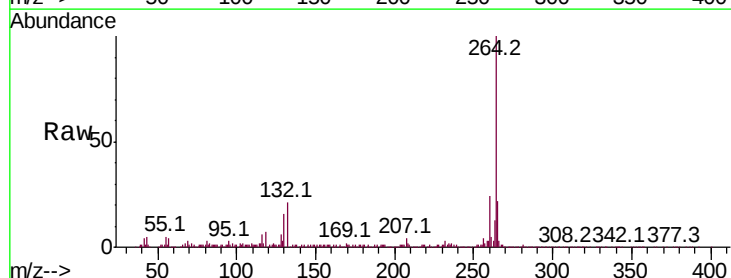
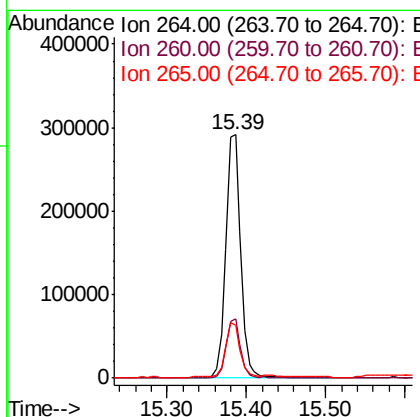
Manual Integrations
APPROVED

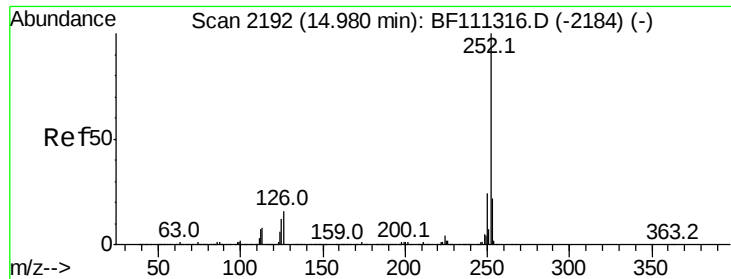
Sohil
12/13/2018 6:06:11 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.39 min Scan# 2261
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.3	27.5
265	21.6	17.7	26.5





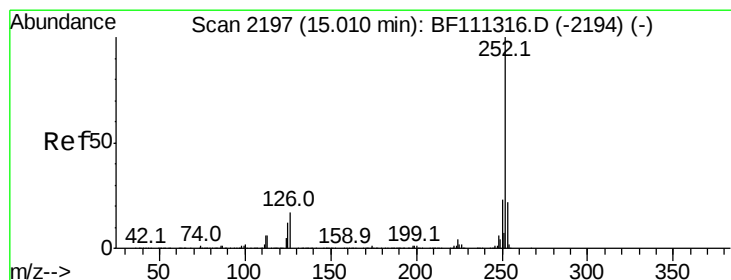
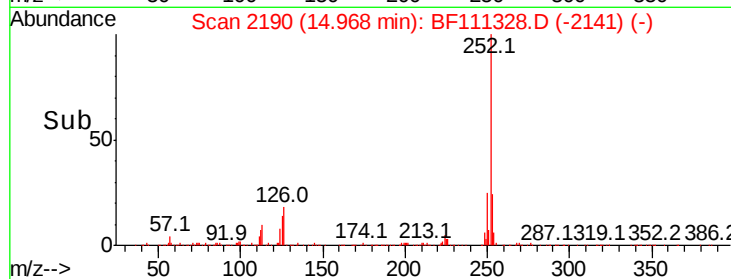
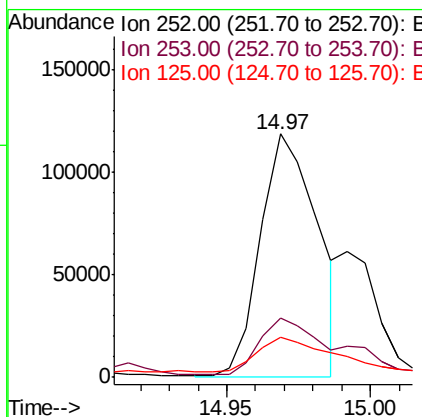
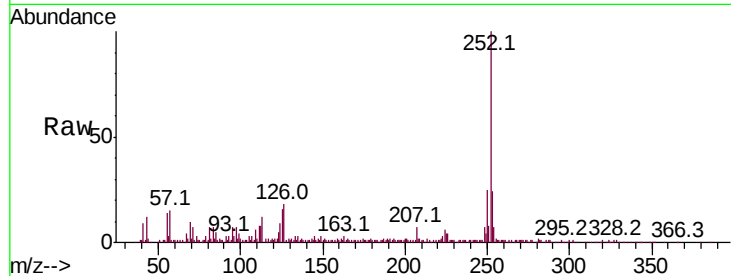
#88
Benzo(b)fluoranthene
Concen: 7.719 ng m
RT: 14.97 min Scan# 2190
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Instrument :
BNA_F
ClientSampleId :
SOIL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.2	27.2
125	16.5	10.4	15.6

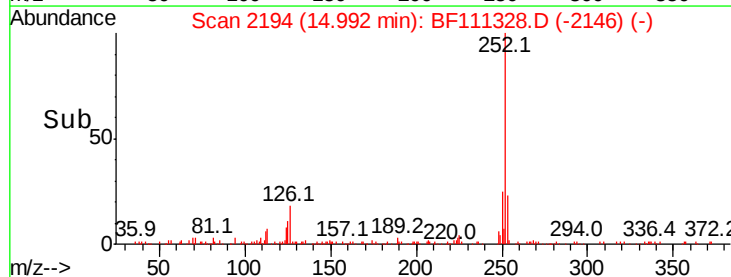
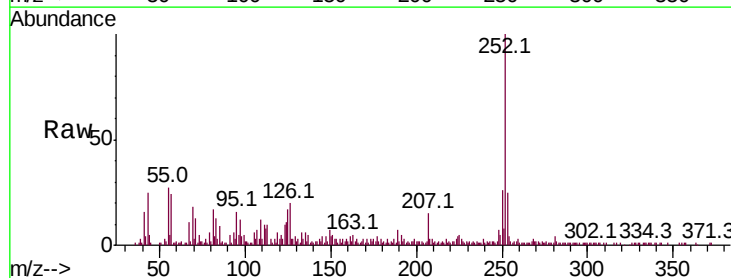
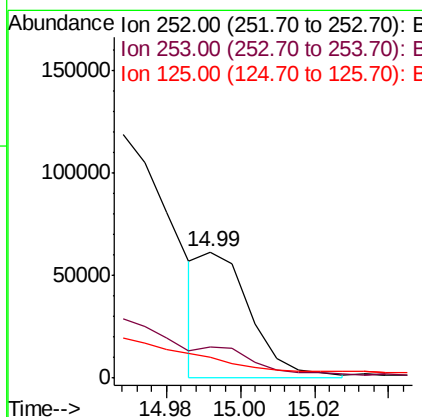
Manual Integrations
APPROVED

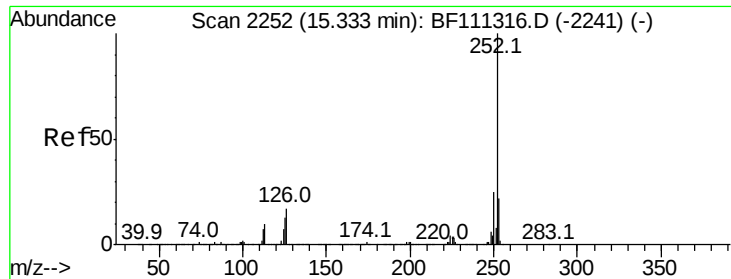
Sohil
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#89
Benzo(k)fluoranthene
Concen: 2.657 ng m
RT: 14.99 min Scan# 2194
Delta R.T. -0.02 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.1	27.1
125	16.7	9.8	14.8





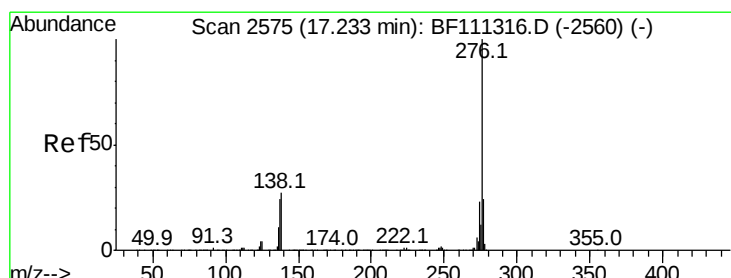
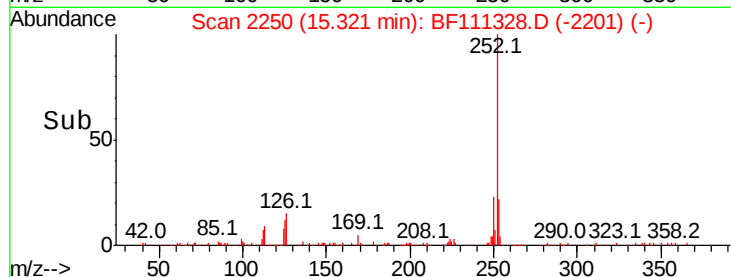
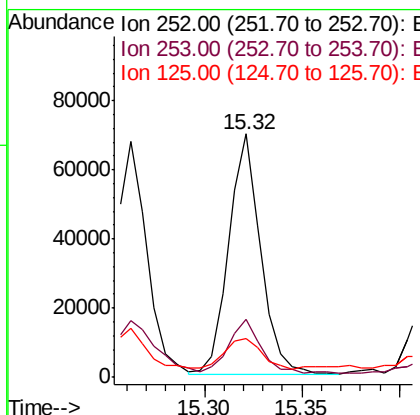
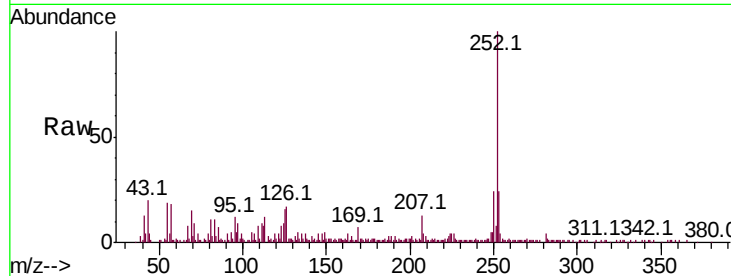
#90
Benzo(a)pyrene
Concen: 3.960 ng
RT: 15.32 min Scan# 2250
Delta R.T. -0.01 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Instrument :
BNA_F
ClientSampled :
SOIL

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	24.0	17.8	26.8
125	16.1	12.3	18.5

Manual Integrations
APPROVED

Sohil
12/13/2018 6:06:11 PM



#92
Benzo(g,h,i)perylene
Concen: 2.188 ng
RT: 17.21 min Scan# 2571
Delta R.T. -0.02 min
Lab File: BF111328.D
Acq: 12 Dec 2018 18:20

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
277	25.7	19.2	28.8
138	36.6	24.9	37.3

