

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013019\
 Data File : BF112321.D
 Acq On : 30 Jan 2019 14:59
 Operator : JU/SJ
 Sample : K1264-01DL 2X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 RH-CONCRETE DL

Manual Integrations
 APPROVED

mohammad
 2/1/2019 12:06:10 AM

Quant Time: Jan 30 15:45:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 28 10:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	132071	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	509164	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	251610	20.00	ng	-0.01
64) Phenanthrene-d10	11.36	188	454164	20.00	ng	0.00
76) Chrysene-d12	14.01	240	292754	20.00	ng	0.00
87) Perylene-d12	15.47	264	278476	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	389034	62.57	ng	-0.01
7) Phenol-d6	6.48	99	497535	57.59	ng	-0.01
23) Nitrobenzene-d5	7.40	82	308355	34.90	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	152103	51.94	ng	-0.02
45) 2-Fluorobiphenyl	9.19	172	682255	38.35	ng	-0.01
79) Terphenyl-d14	12.94	244	604722	38.91	ng	0.00
Target Compounds						
52) Acenaphthene	9.90	154	45092	3.019	ng	99
55) Dibenzofuran	10.08	168	80298	3.518	ng	100
71) Phenanthrene	11.39	178	1373315	58.163	ng	99
72) Anthracene	11.44	178	91932m	3.909	ng	
73) Carbazole	11.59	167	72099	3.108	ng	# 91
75) Fluoranthene	12.59	202	1571089	62.038	ng	99
78) Pyrene	12.82	202	1209186	59.658	ng	99
81) Benzo(a)anthracene	14.00	228	284754	16.546	ng	99
83) Chrysene	14.03	228	316951m	19.294	ng	
84) Bis(2-ethylhexyl)phthalate	13.97	149	28768	2.067	ng	# 92
86) Indeno(1,2,3-cd)pyrene	16.94	276	93976	7.220	ng	# 92
88) Benzo(b)fluoranthene	15.04	252	286160m	17.182	ng	
89) Benzo(k)fluoranthene	15.07	252	93579m	5.866	ng	
90) Benzo(a)pyrene	15.41	252	89533	5.975	ng	# 91
91) Dibenzo(a,h)anthracene	16.94	278	24991m	2.069	ng	
92) Benzo(g,h,i)perylene	17.39	276	104502	9.171	ng	97

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

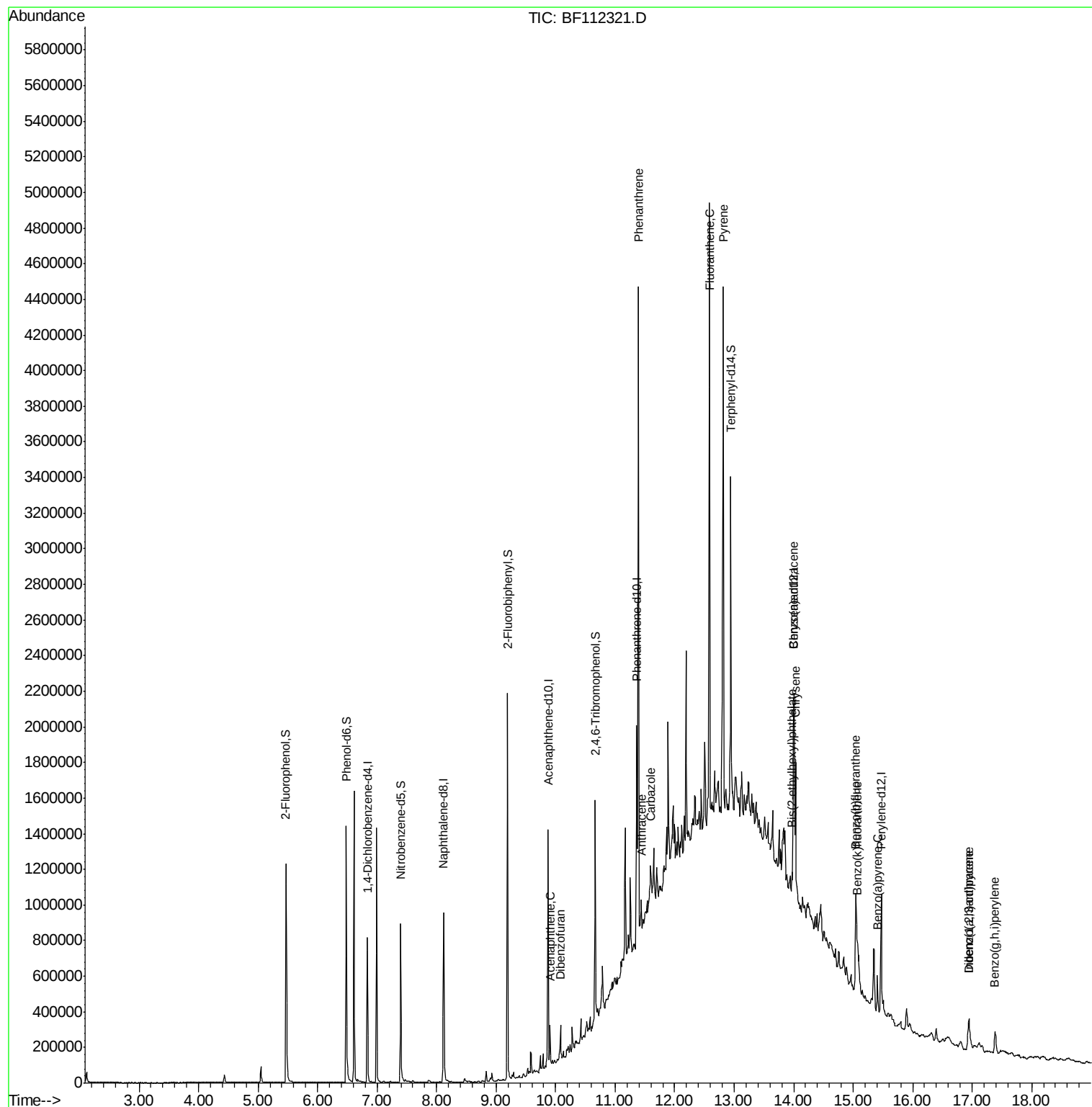
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013019\
Data File : BF112321.D
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 28 10:38:18 2019
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.84 min Scan# 808

Delta R.T. -0.01 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

Instrument :

BNA_F

ClientSampleId :

RH-CONCRETE DL

Tot Ion:152 Resp: 132071

Ion Ratio Lower Upper

152 100

150 154.4 127.4 191.0

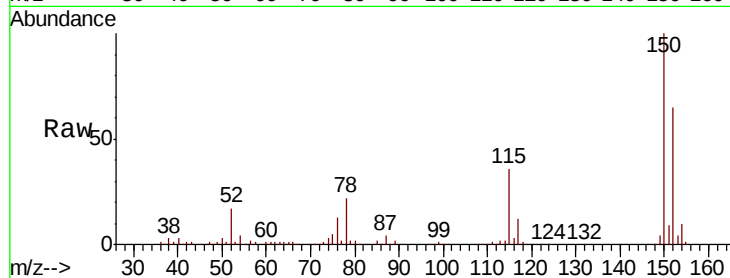
115 55.6 45.5 68.3

Manual Integrations

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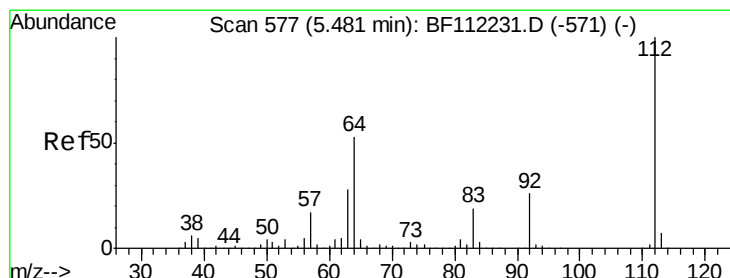
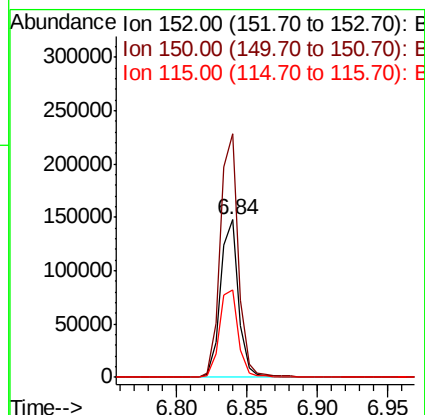
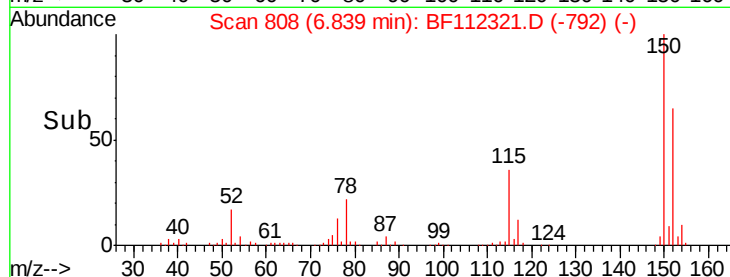
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 62.567 ng

RT: 5.47 min Scan# 575

Delta R.T. -0.01 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

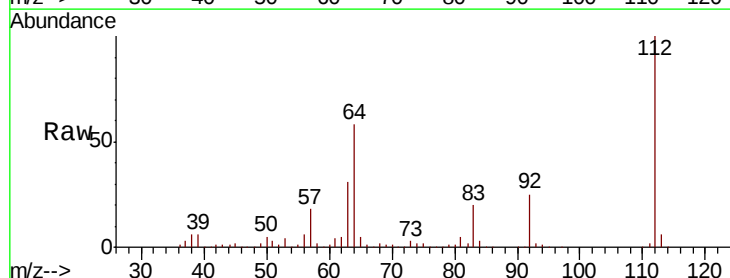
Tgt Ion:112 Resp: 389034

Ion Ratio Lower Upper

112 100

64 57.6 45.7 68.5

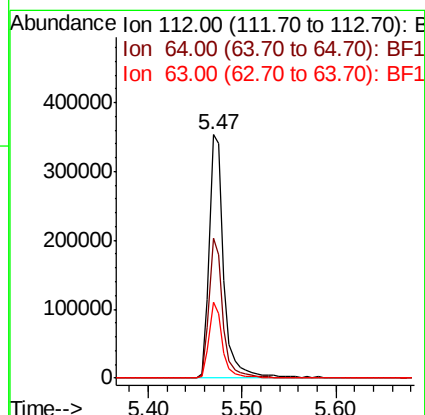
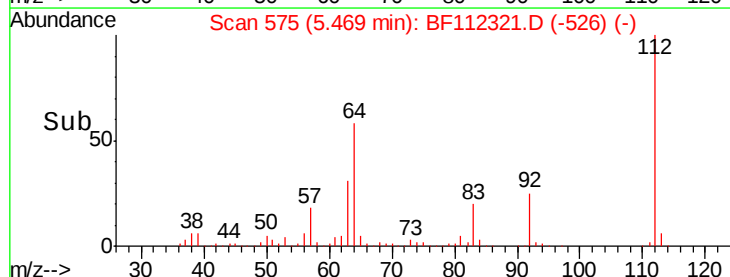
63 31.1 23.6 35.4



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: 57.585 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

Instrument :

BNA_F

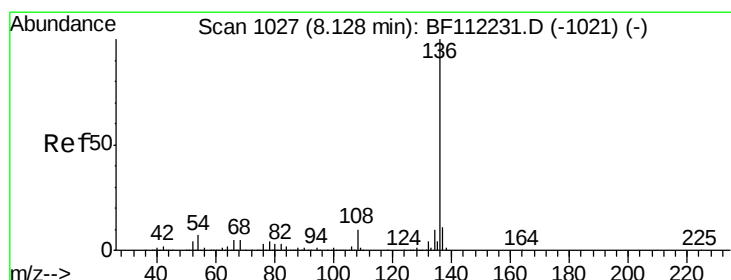
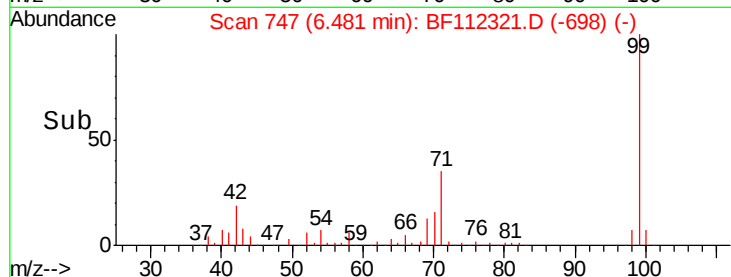
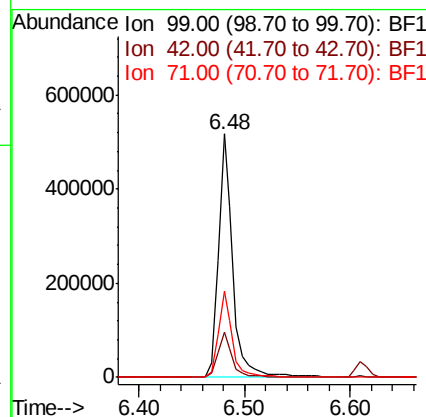
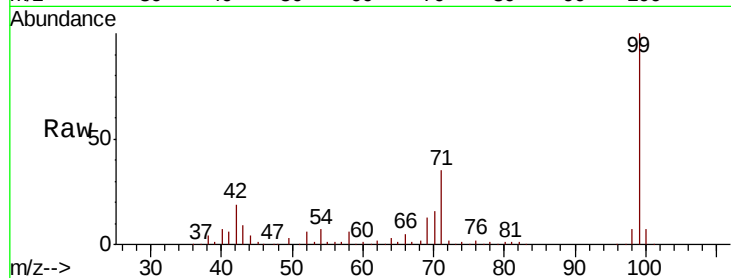
ClientSampleId :

RH-CONCRETE DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		497535		
42	18.6	15.1	22.7		
71	35.2	26.9	40.3		

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#21

Naphthalene-d8

Concen: 20.000 ng

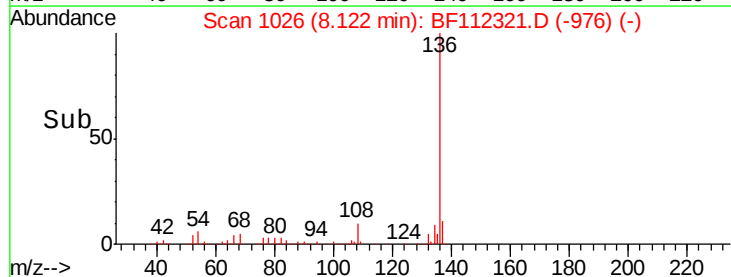
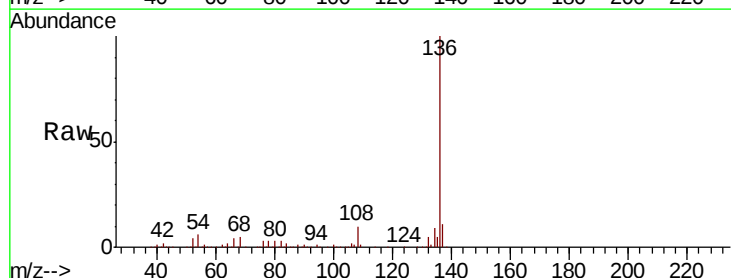
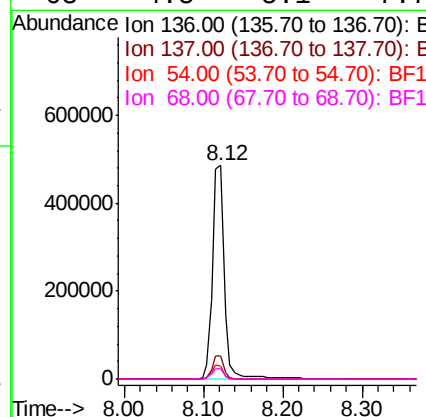
RT: 8.12 min Scan# 1026

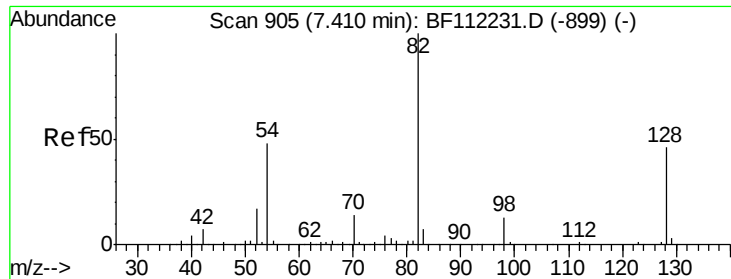
Delta R.T. -0.01 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		509164		
137	10.6	9.1	13.7		
54	5.9	5.9	8.9		
68	4.5	5.1	7.7#		





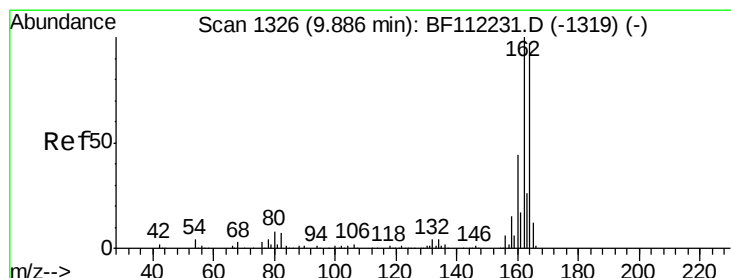
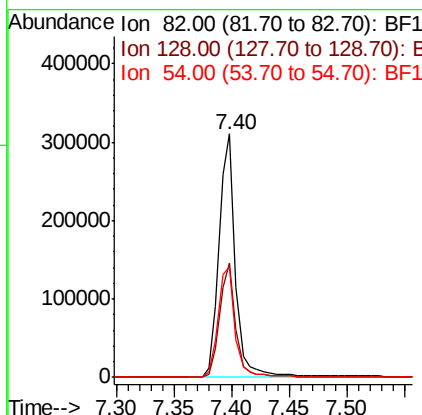
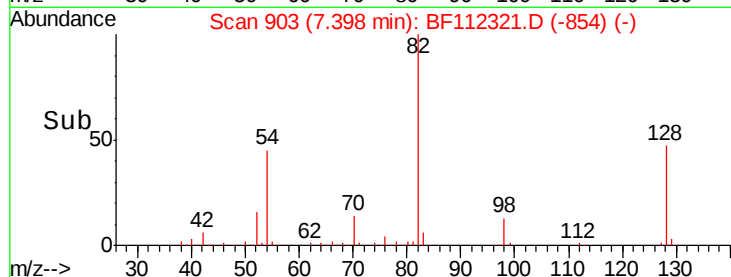
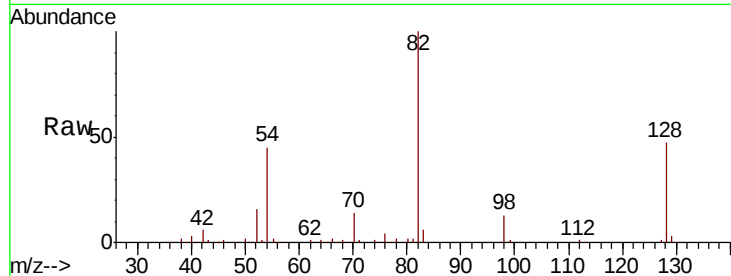
#23
Nitrobenzene-d5
Concen: 34.895 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.01 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Instrument :
BNA_F
ClientSampleId :
RH-CONCRETE DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.2	37.8	56.8
54	45.5	39.7	59.5

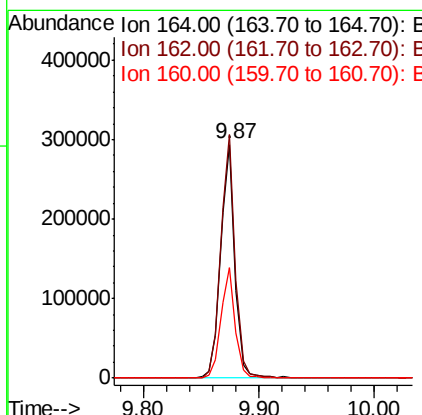
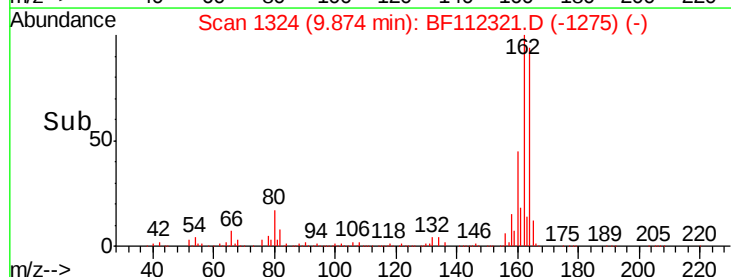
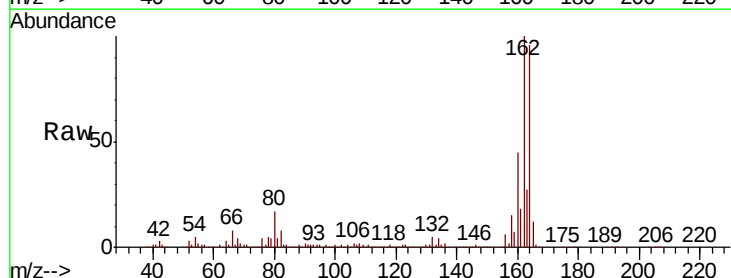
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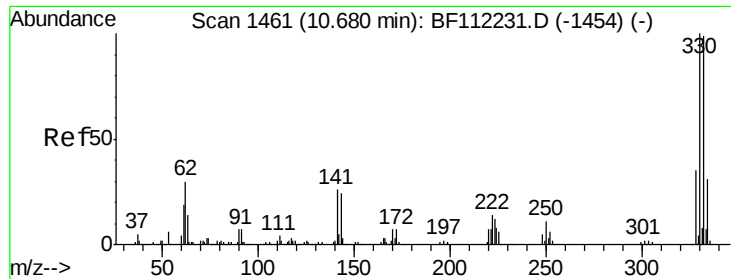
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.2	123.4
160	47.4	36.2	54.4





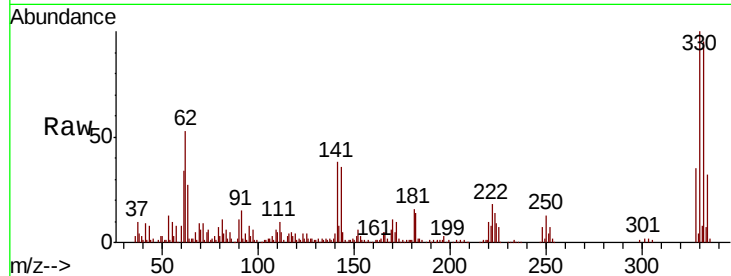
#42
 2,4,6-Tribromophenol
 Concen: 51.936 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.02 min
 Lab File: BF112321.D
 Acq: 30 Jan 2019 14:59

Instrument :
 BNA_F
 ClientSampleId :
 RH-CONCRETE DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	152103		
332	95.1	76.6	114.8	
141	33.0	24.3	36.5	

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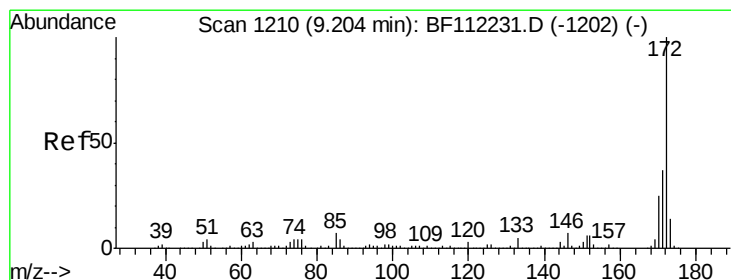
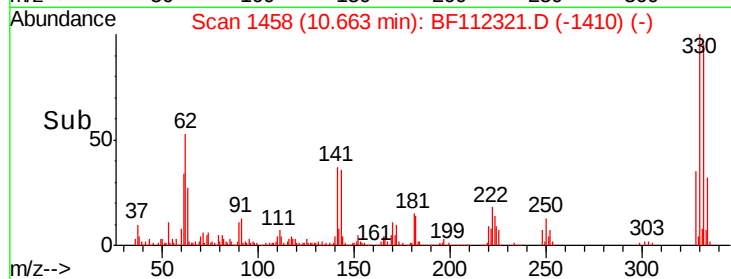
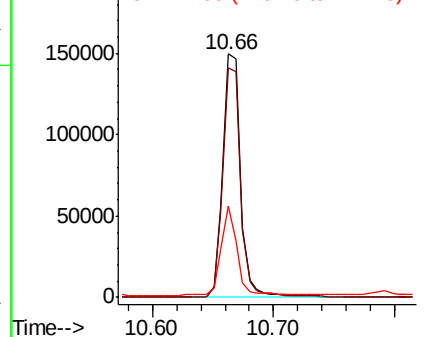


Abundance

Ion 329.80 (329.50 to 330.50): E

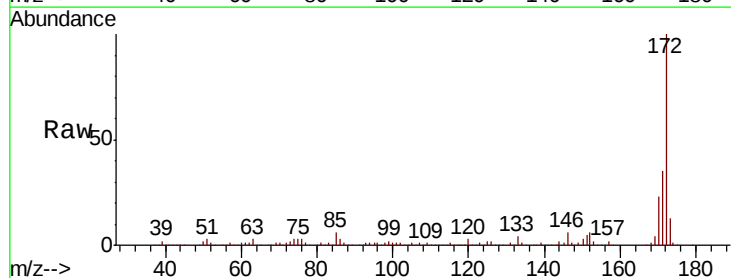
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 38.351 ng
 RT: 9.19 min Scan# 1208
 Delta R.T. -0.01 min
 Lab File: BF112321.D
 Acq: 30 Jan 2019 14:59

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	682255		
171	35.1	30.5	45.7	
170	23.3	20.2	30.4	

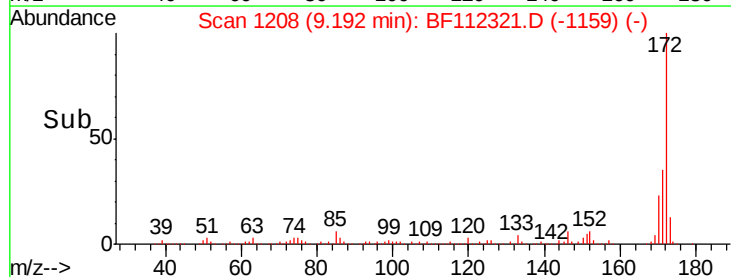
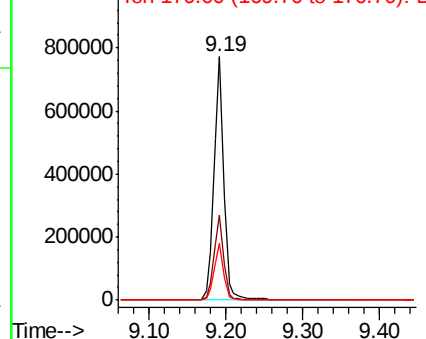


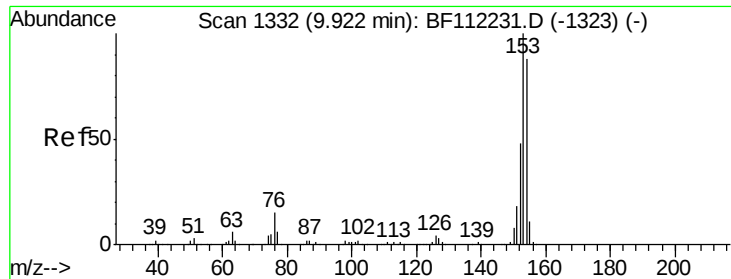
Abundance

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





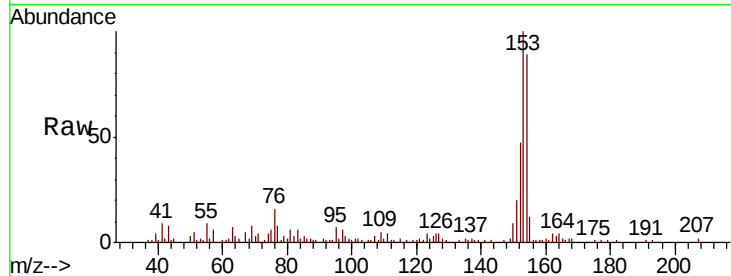
#52
Acenaphthene
Concen: 3.019 ng
RT: 9.90 min Scan# 1329
Delta R.T. -0.02 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Instrument :
BNA_F
ClientSampleId :
RH-CONCRETE-DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.8	134.6
152	52.8	43.5	65.3

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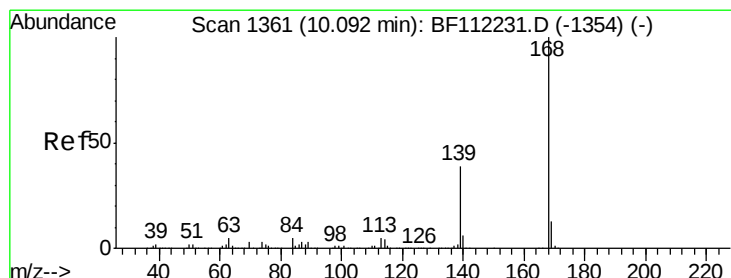
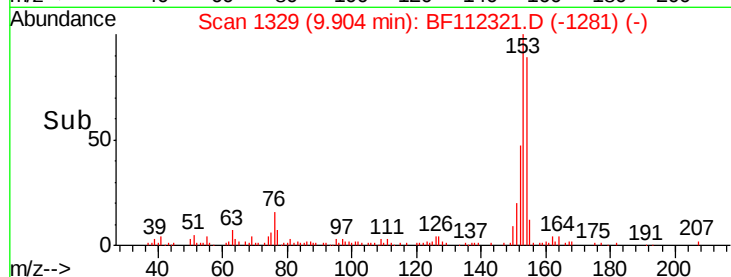
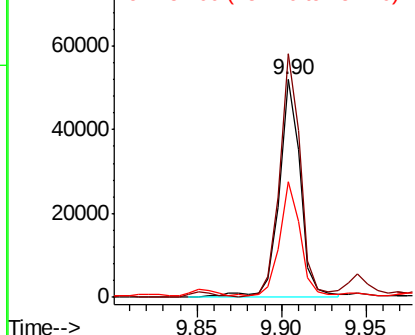


Abundance

Ion 154.00 (153.70 to 154.70): E

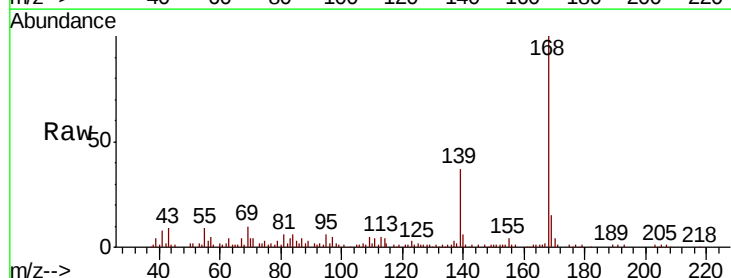
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55
Dibenzofuran
Concen: 3.518 ng
RT: 10.08 min Scan# 1359
Delta R.T. -0.01 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.6	29.2	43.8
169	14.7	11.4	17.0

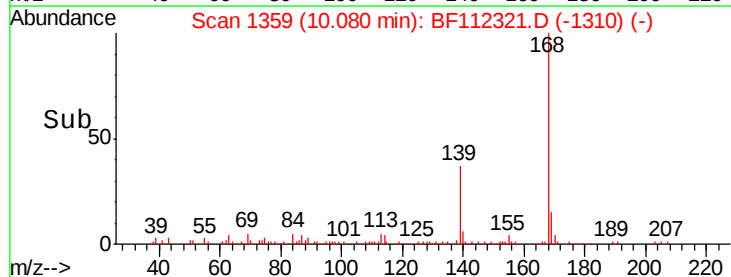
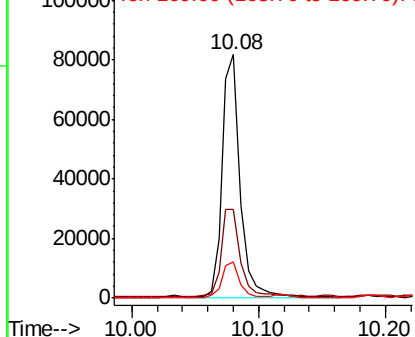


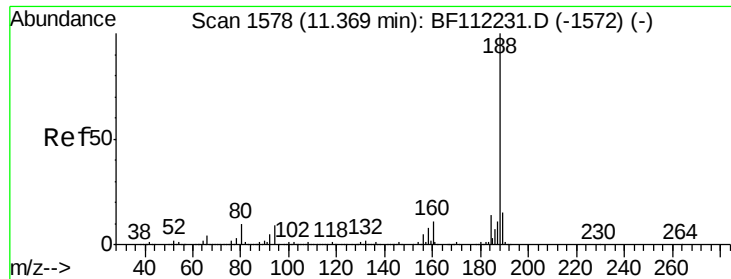
Abundance

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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

Instrument :

BNA_F

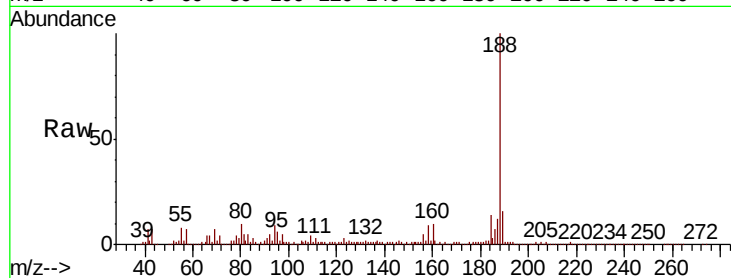
ClientSampleId :

RH-CONCRETE

Tot Ion:	188	Resp:	454164
Ion Ratio	Lower	Upper	
188	100		
94	9.5	8.2	12.2
80	9.8	8.9	13.3

Manual Integrations
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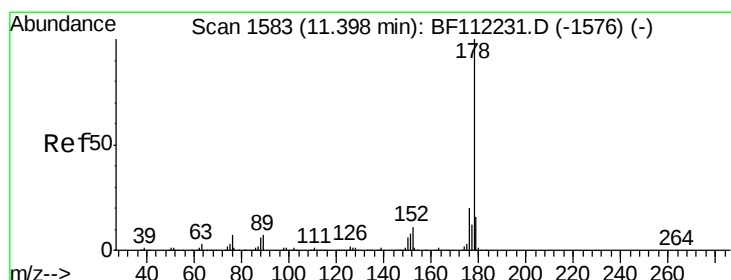
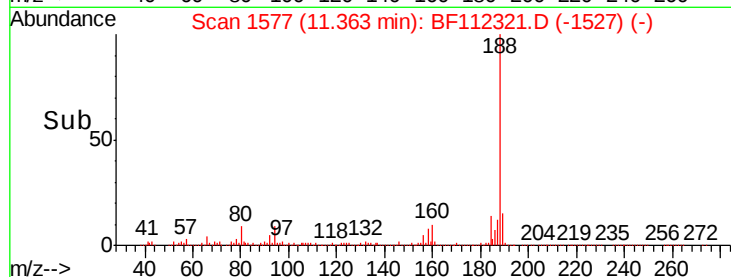
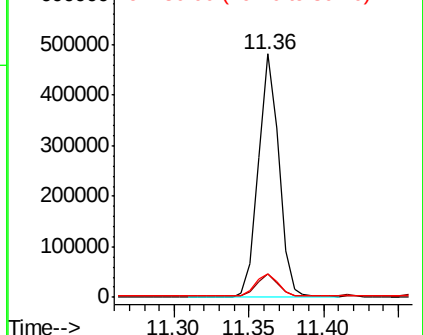
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 58.163 ng

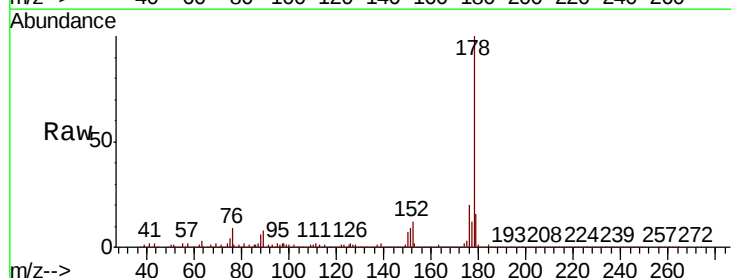
RT: 11.39 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

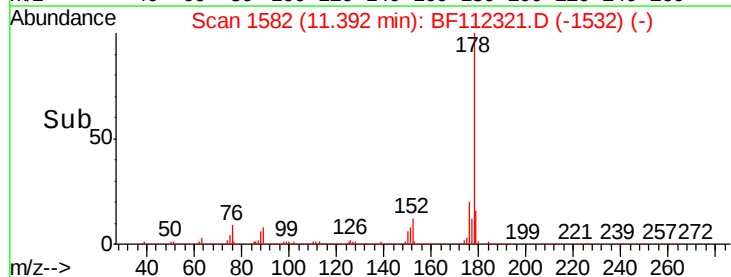
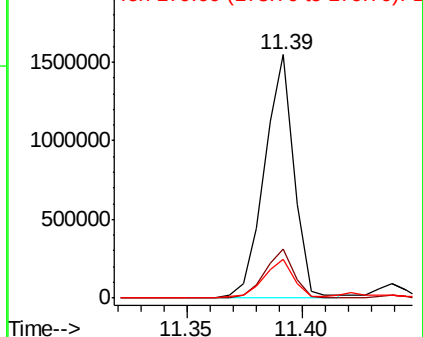
Tgt Ion:	178	Resp:	1373315
Ion Ratio	Lower	Upper	
178	100		
176	20.0	16.3	24.5
179	16.1	13.0	19.4

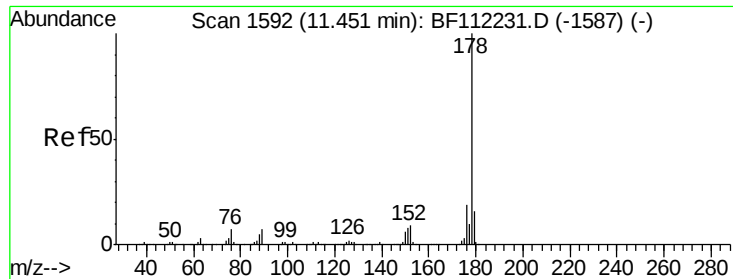


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





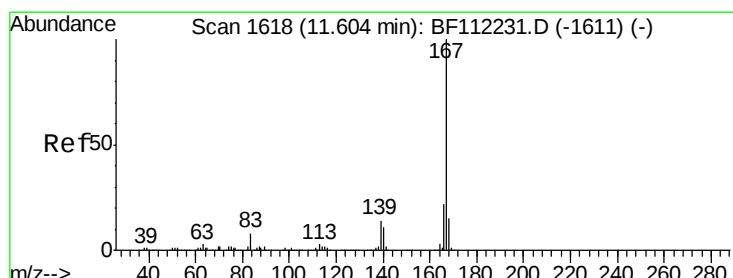
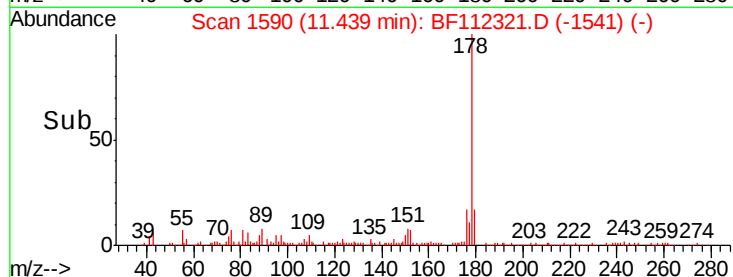
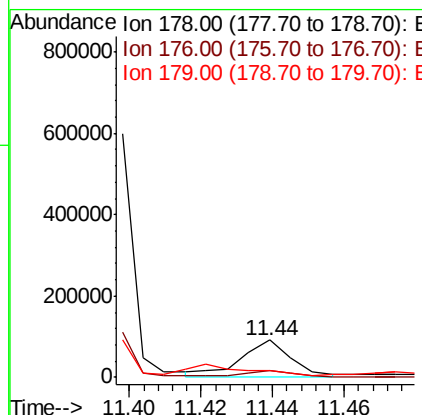
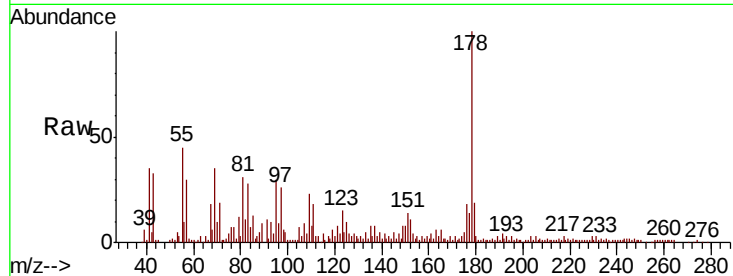
#72
 Anthracene
 Concen: 3.909 ng/mL
 RT: 11.44 min Scan# 1590
 Delta R.T. -0.01 min
 Lab File: BF112321.D
 Acq: 30 Jan 2019 14:59

Instrument :
 BNA_F
 ClientSampleID :
 RH-CONCRETE-DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.5	23.3
179	19.3	12.8	19.2

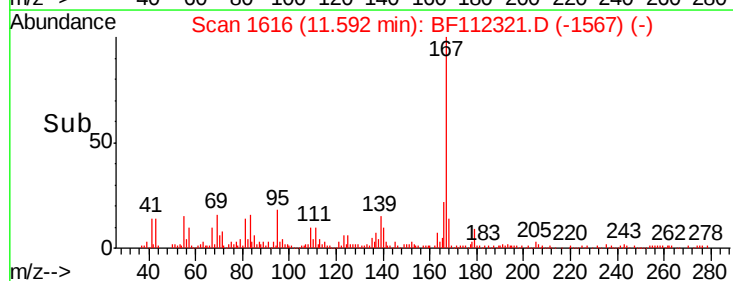
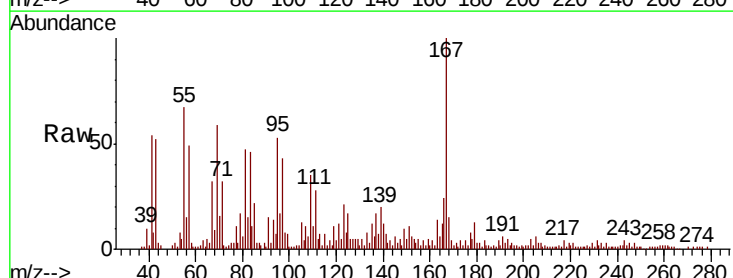
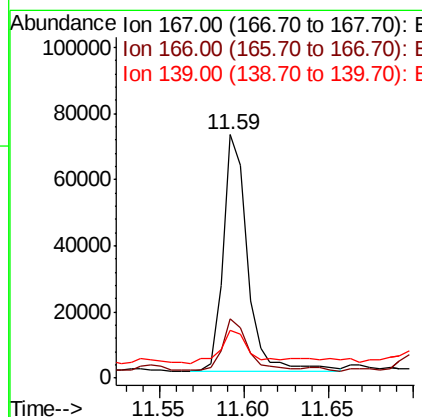
Manual Integrations
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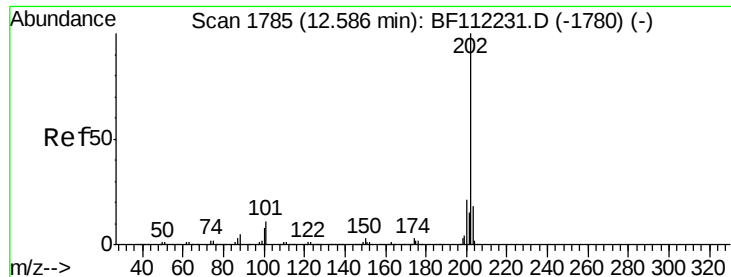
mohammad
 2/1/2019 12:06:10 AM



#73
 Carbazole
 Concen: 3.108 ng/mL
 RT: 11.59 min Scan# 1616
 Delta R.T. -0.01 min
 Lab File: BF112321.D
 Acq: 30 Jan 2019 14:59

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.3	17.9	26.9
139	19.5	10.2	15.2





#75

Fluoranthene

Concen: 62.038 ng

RT: 12.59 min Scan# 1785

Delta R.T. -0.00 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

Instrument :

BNA_F

ClientSampleId :

RH-CONCRETE DL

Tot Ion:	202	Resp:	1571089
Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	31.8
203	18.2	0.0	38.4

Manual Integrations
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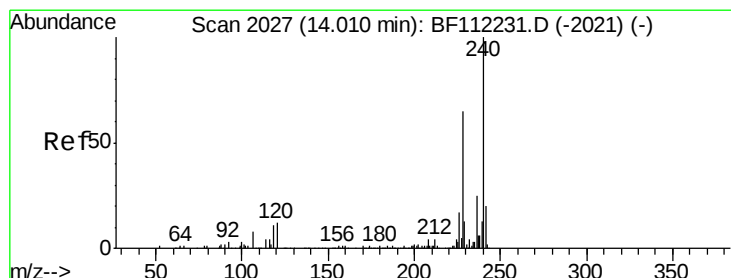
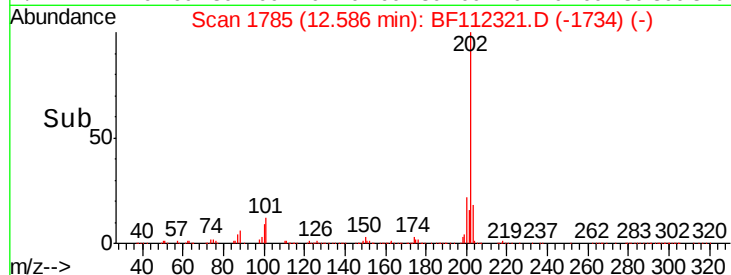
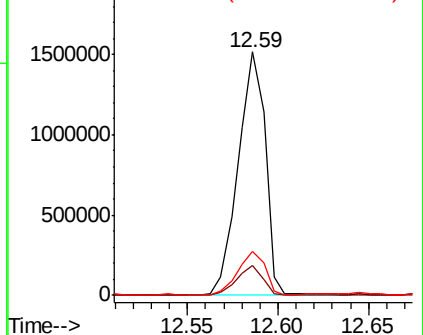


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

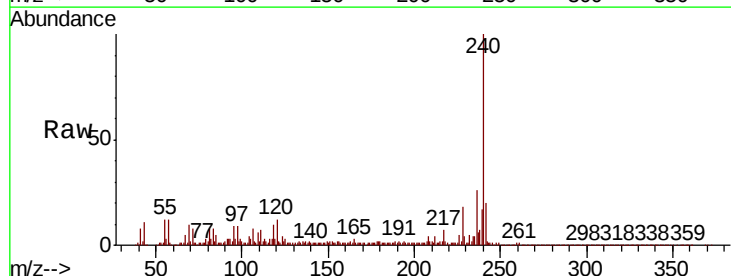
RT: 14.01 min Scan# 2027

Delta R.T. -0.00 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

Tgt Ion:	240	Resp:	292754
Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.0	13.6
236	25.9	20.7	31.1

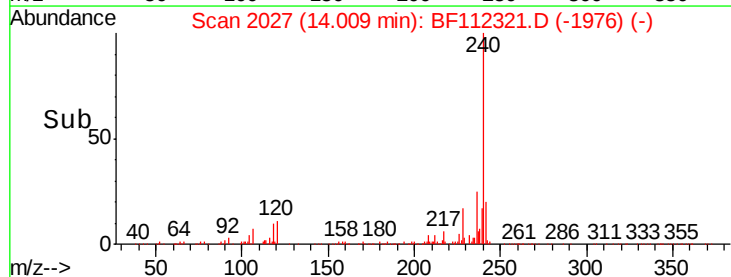
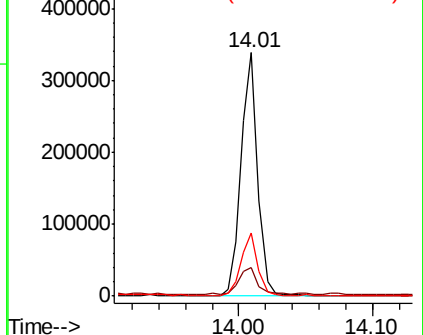


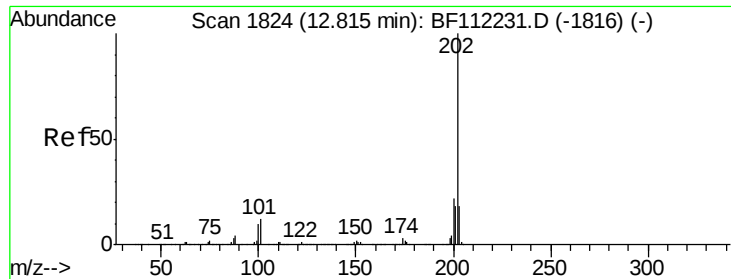
Abundance

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





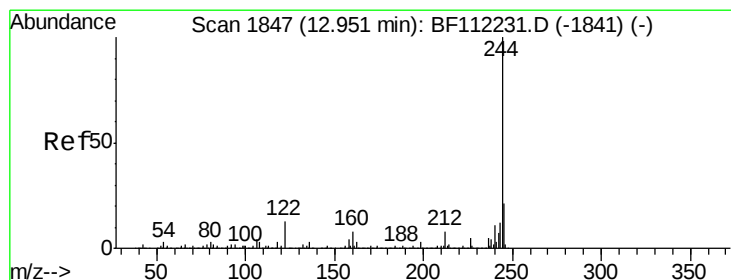
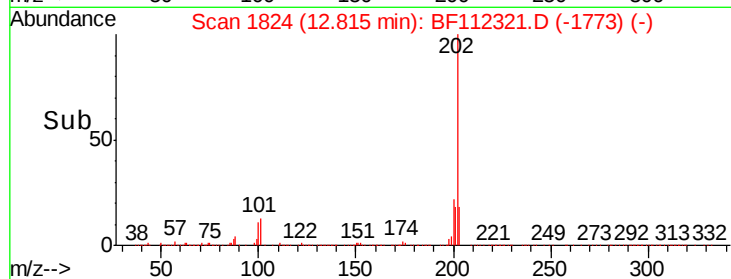
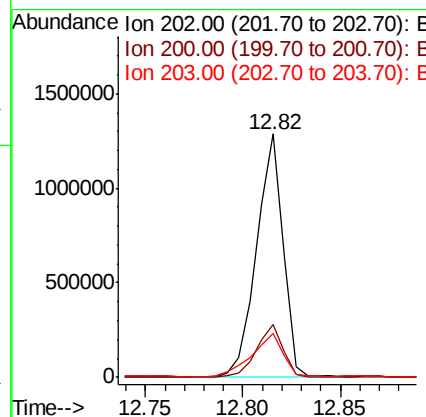
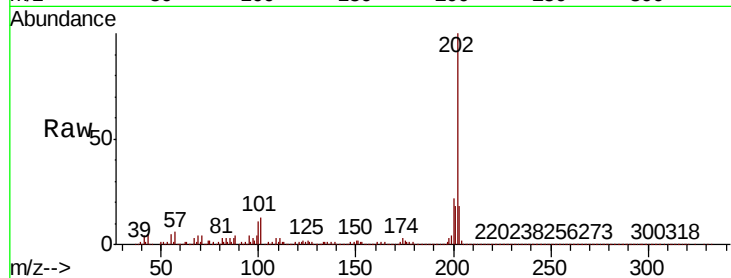
#78
Pvrene
Concen: 59.658 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.00 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Instrument :
BNA_F
ClientSampleId :
RH-CONCRETE-DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.7	26.5
203	18.1	14.6	22.0

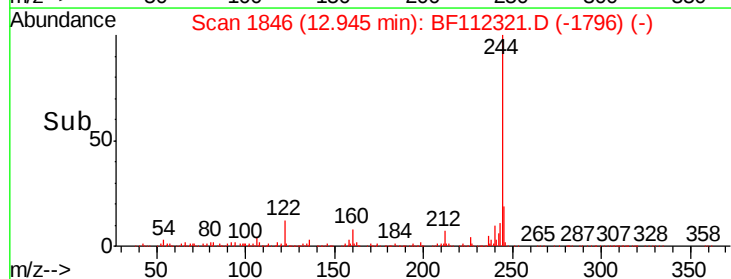
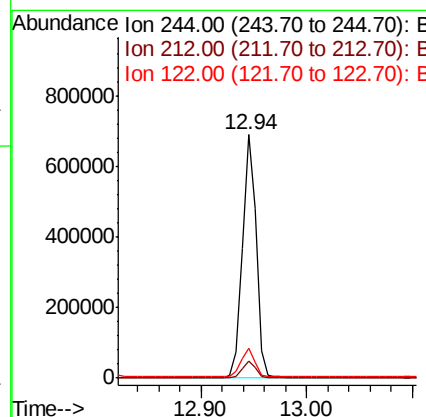
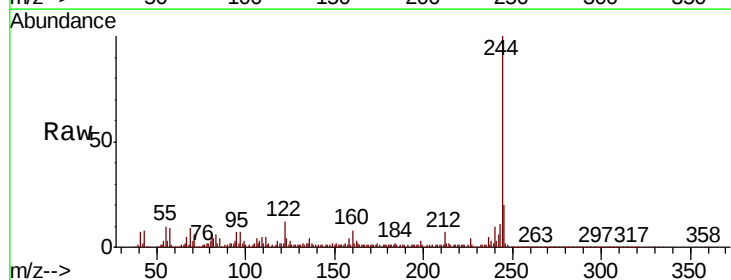
Manual Integrations
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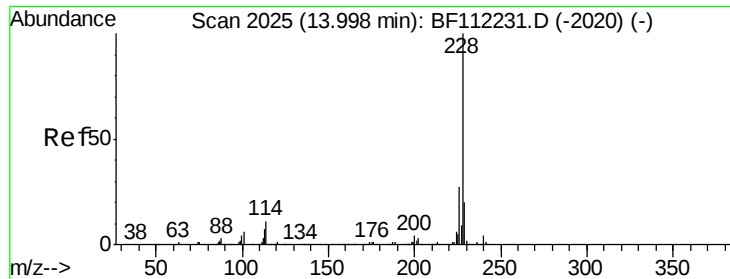
mohammad
2/1/2019 12:06:10 AM



#79
Terphenyl-d14
Concen: 38.905 ng
RT: 12.94 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.9	8.9
122	12.5	9.8	14.6





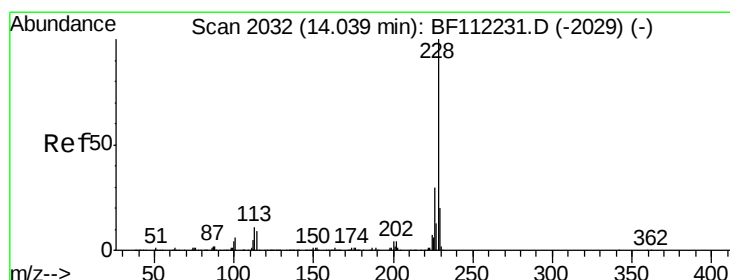
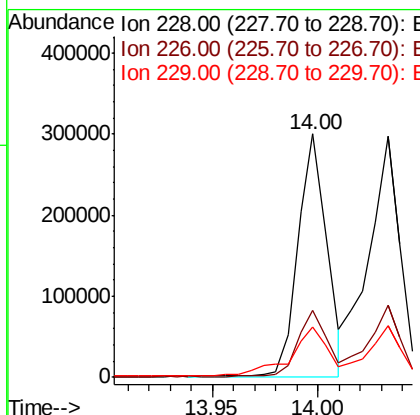
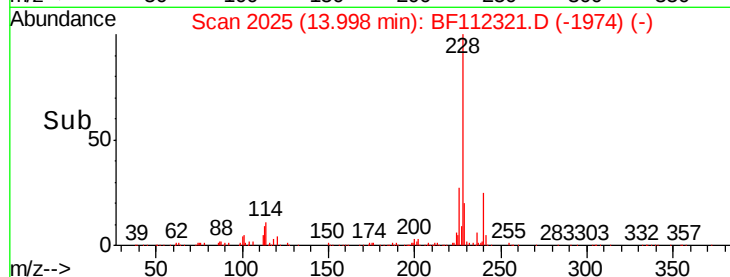
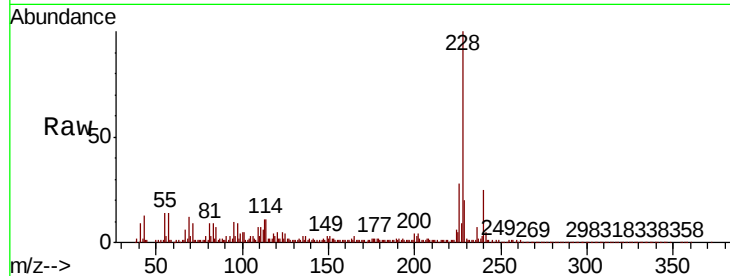
#81
Benzo(a)anthracene
Concen: 16.546 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.00 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Instrument :
BNA_F
ClientSampleId :
RH-CONCRETE DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.6	34.0
229	20.5	16.5	24.7

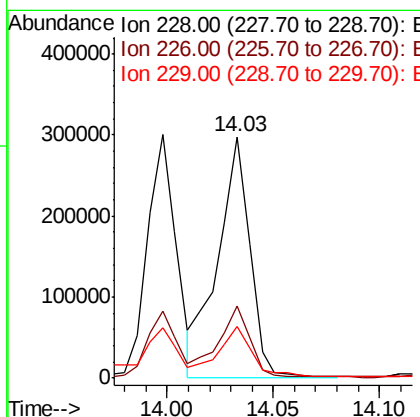
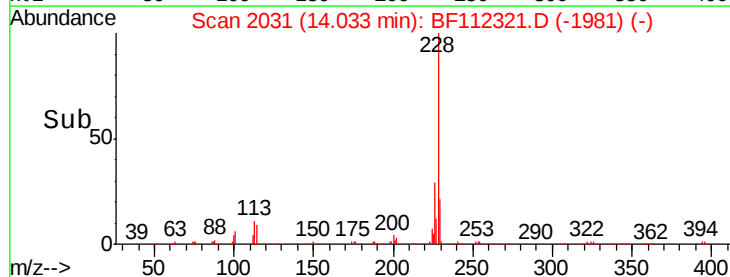
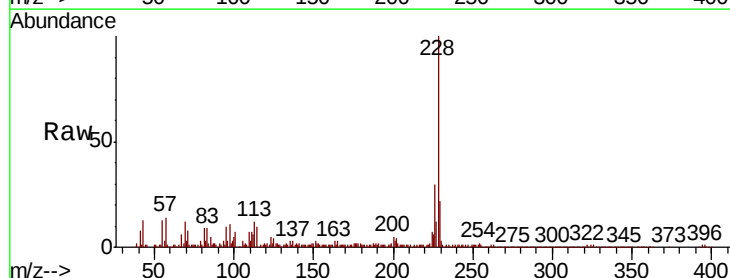
Manual Integrations
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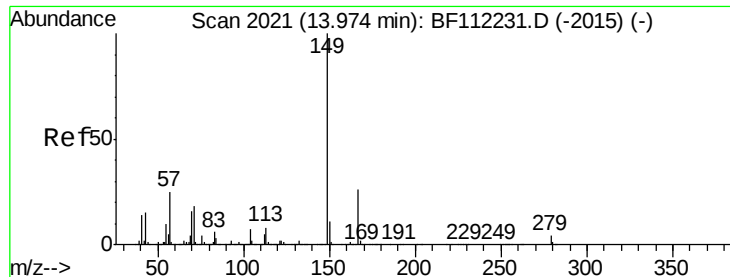
mohammad
2/1/2019 12:06:10 AM



#83
Chrysene
Concen: 19.294 ng m
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.0	37.6
229	21.7	16.6	24.8





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.067 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.00 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

Instrument :

BNA_F

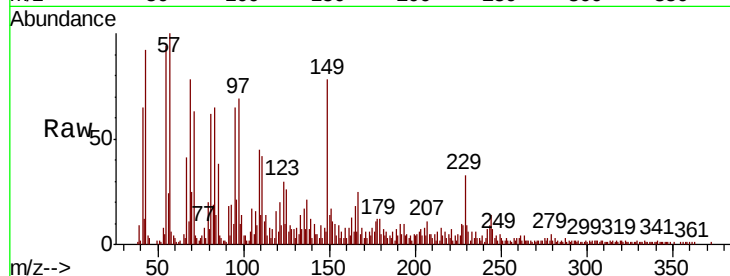
ClientSampleId :

RH-CONCRETE-DL

Tot Ion:	149	Resp:	28768
Ion Ratio	Lower	Upper	
149	100		
167	32.3	22.5	33.7
279	6.8	3.8	5.6

Manual Integrations
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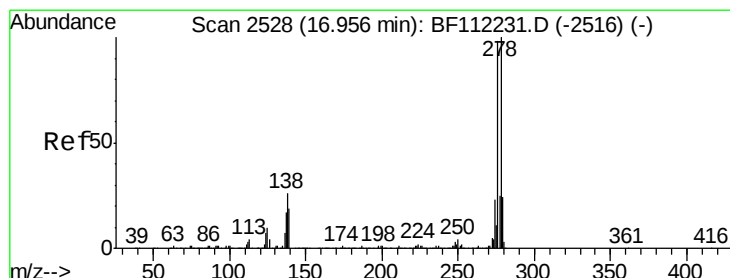
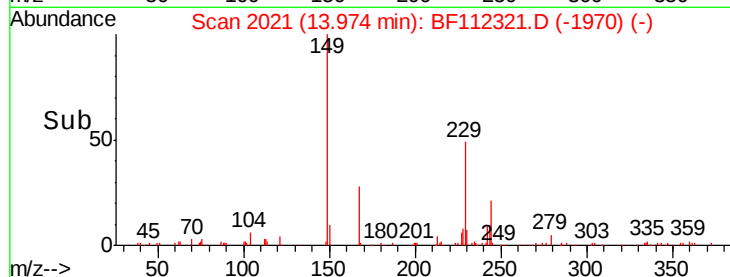
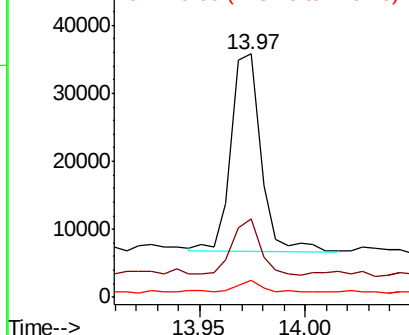


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 7.220 ng

RT: 16.94 min Scan# 2526

Delta R.T. -0.01 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

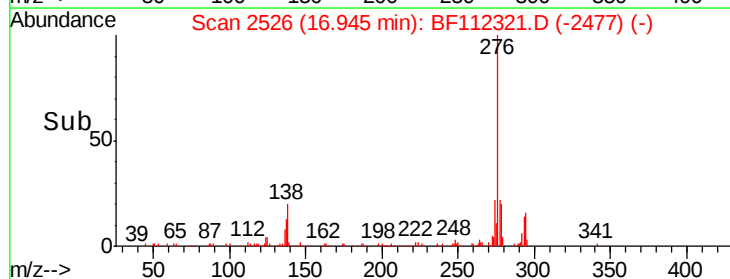
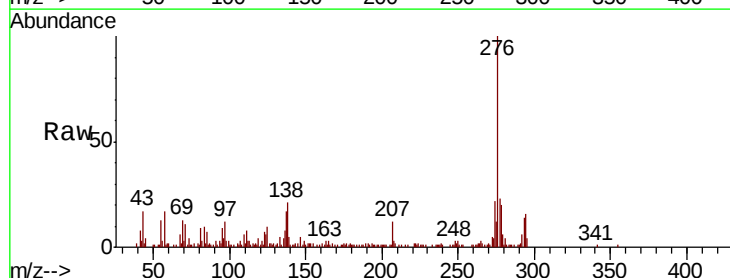
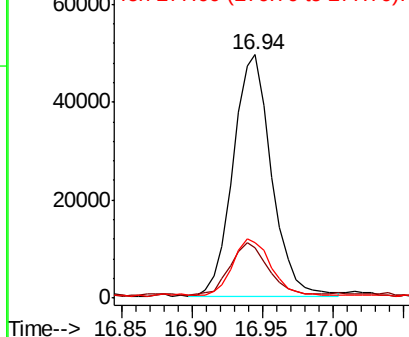
Tgt Ion:	276	Resp:	93976
Ion Ratio	Lower	Upper	
276	100		
138	21.8	22.6	34.0
277	23.8	20.3	30.5

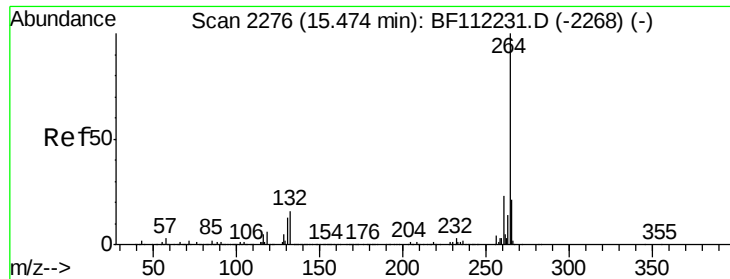
Abundance

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





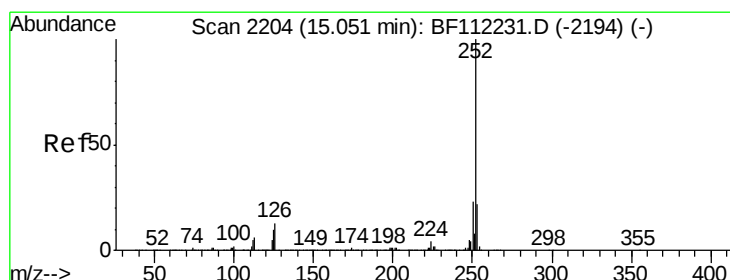
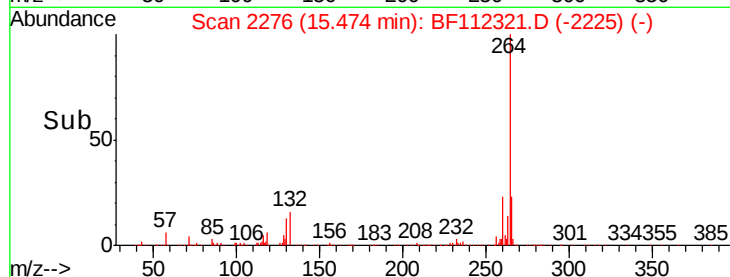
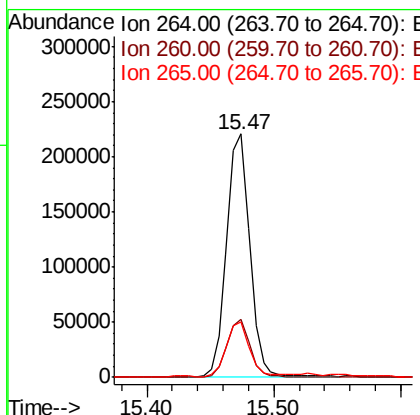
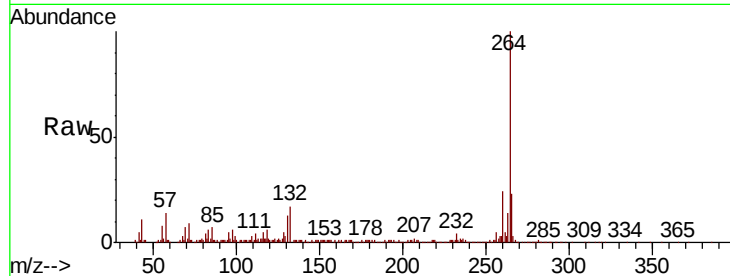
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2276
Delta R.T. -0.00 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Instrument :
BNA_F
ClientSampleId :
RH-CONCRETE DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.2	27.2
265	22.8	17.0	25.4

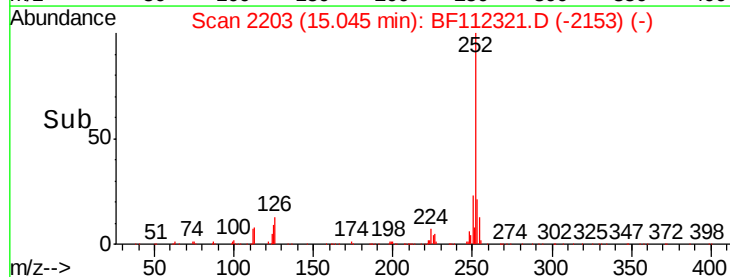
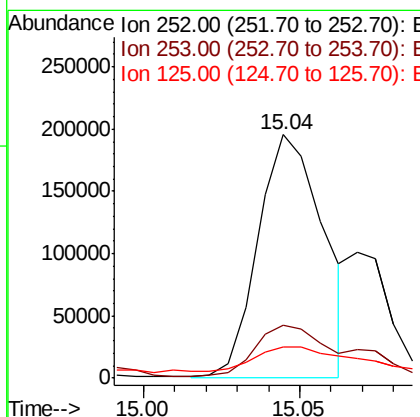
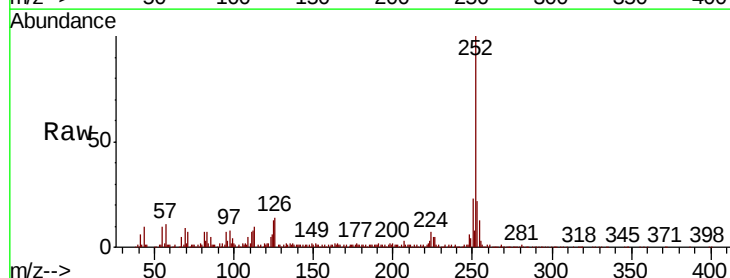
Manual Integrations
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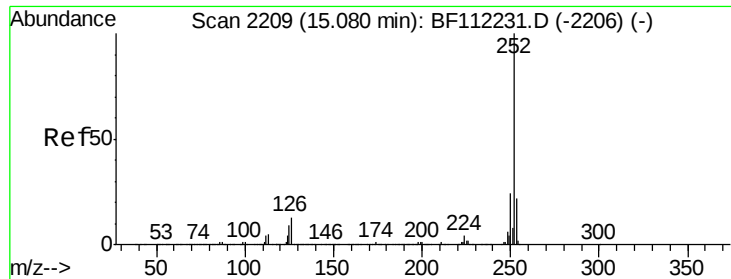
mohammad
2/1/2019 12:06:10 AM



#88
Benzo(b)fluoranthene
Concen: 17.182 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.0	27.0
125	13.0	8.7	13.1





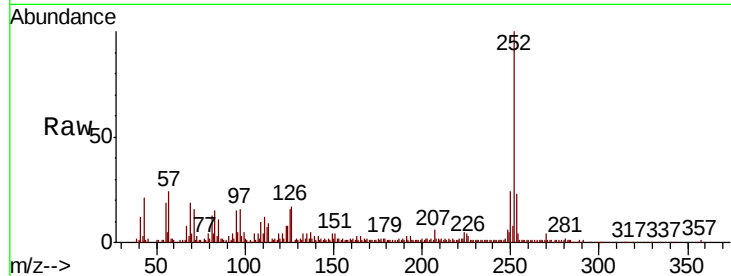
#89
Benzo(k)fluoranthene
Concen: 5.866 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

Instrument :
BNA_F
ClientSampleId :
RH-CONCRETE-DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	16.1	9.1	13.7

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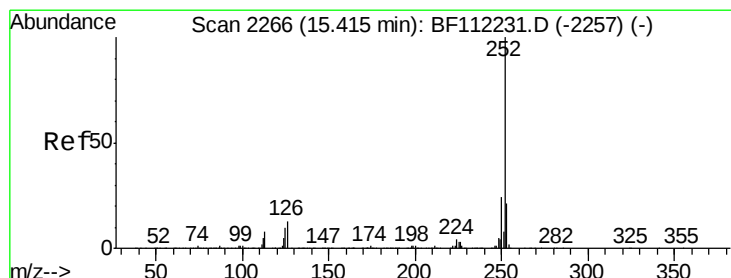
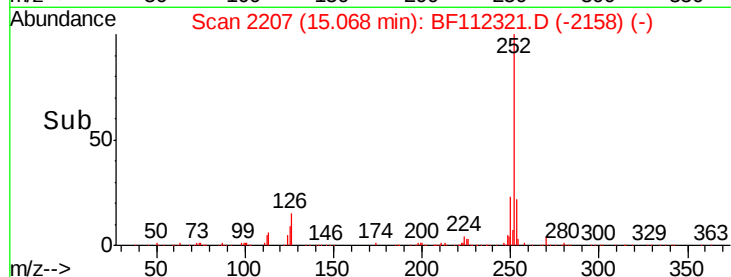
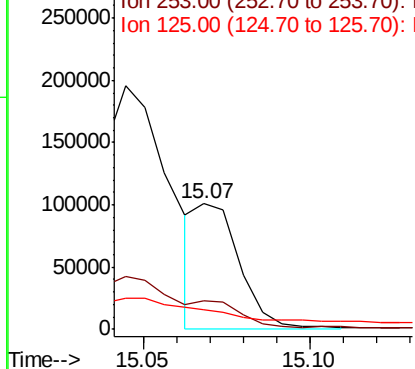


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Benzo(a)pyrene
Concen: 5.975 ng
RT: 15.41 min Scan# 2265
Delta R.T. -0.01 min
Lab File: BF112321.D
Acq: 30 Jan 2019 14:59

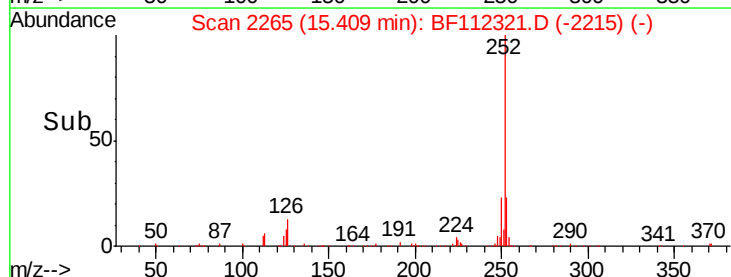
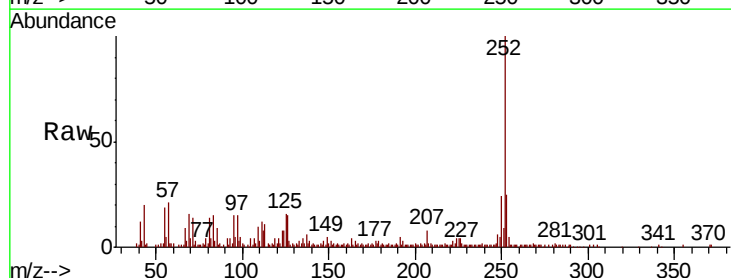
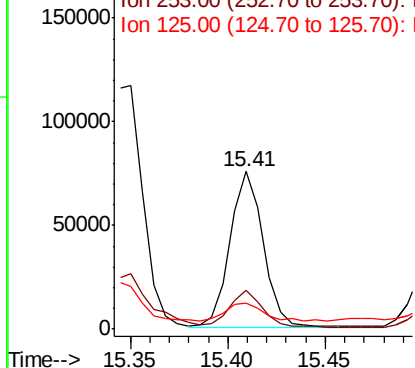
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.5	26.3
125	16.3	9.0	13.4

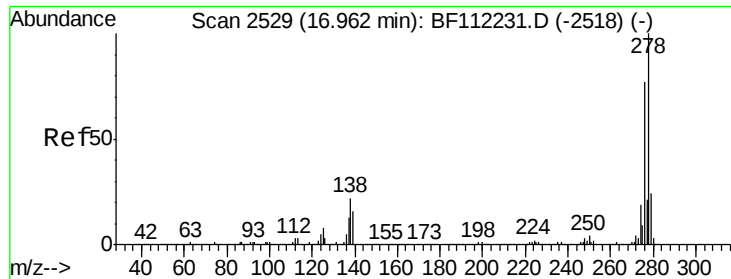
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 2.069 ng/mL

RT: 16.94 min Scan# 2525

Delta R.T. -0.02 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

Instrument :

BNA_F

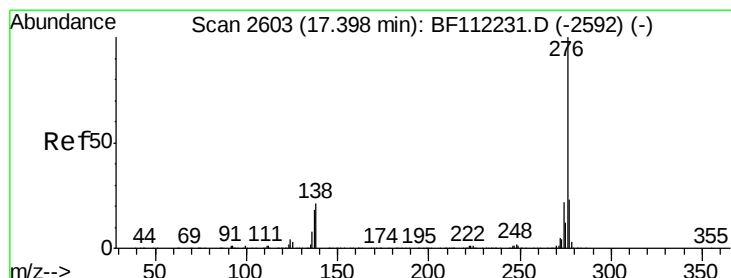
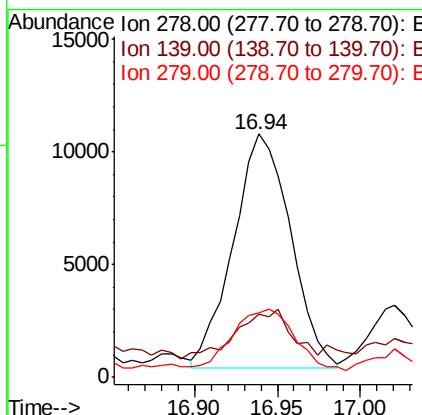
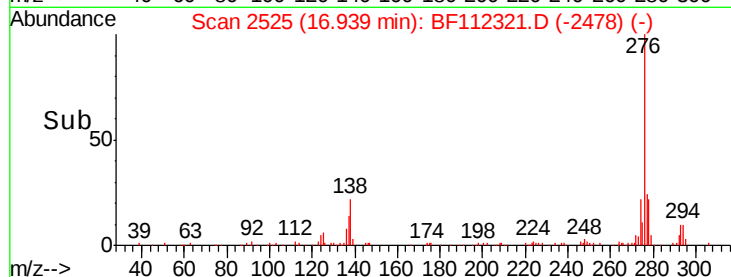
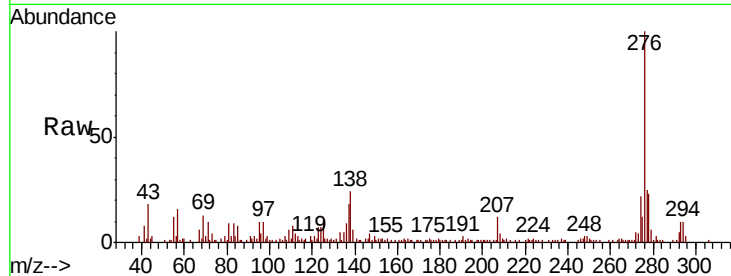
ClientSampleId :

RH-CONCRETE-DL

Tot Ion:	278	Resp:	24991
Ion Ratio	Lower	Upper	
278	100		
139	25.8	13.7	20.5#
279	26.3	19.0	28.6

Manual Integrations
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#92

Benzo(g,h,i)perylene

Concen: 9.171 ng/mL

RT: 17.39 min Scan# 2601

Delta R.T. -0.01 min

Lab File: BF112321.D

Acq: 30 Jan 2019 14:59

Tgt Ion:	276	Resp:	104502
Ion Ratio	Lower	Upper	
276	100		
277	23.6	19.4	29.0
138	21.0	19.1	28.7

