

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
 Data File : BF101121.D
 Acq On : 5 Dec 2017 13:48
 Operator : SJ/JU
 Sample : I6734-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Driveway-Paving-2(0-12)

Manual Integrations
 APPROVED

Sohil
 12/6/2017 5:12:20 PM

Quant Time: Dec 05 15:38:01 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:07:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	59520	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	229316	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	107637	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	204505	20.00	ng	0.00
75) Chrysene-d12	14.02	240	138391	20.00	ng	0.00
86) Perylene-d12	15.49	264	125581	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	370918	102.98	ng	0.01
7) Phenol-d6	6.49	99	448642	102.59	ng	0.00
23) Nitrobenzene-d5	7.42	82	283718	73.80	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	125882	97.35	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	559924	71.17	ng	0.00
78) Terphenyl-d14	12.96	244	507845	80.26	ng	0.00
Target Compounds						
10) Phenol	6.49	94	15386	3.164	ng	Qvalue # 60
49) Dimethylphthalate	9.60	163	75049	8.646	ng	99
70) Phenanthrene	11.40	178	110846	9.842	ng	96
74) Fluoranthene	12.59	202	276653	22.161	ng	95
77) Pyrene	12.82	202	252562	26.448	ng	99
80) Benzo(a)anthracene	14.01	228	103791	11.878	ng	98
82) Chrysene	14.04	228	106783	13.159	ng	96
83) Bis(2-ethylhexyl)phthalate	13.98	149	31134	5.186	ng	100
85) Indeno(1,2,3-cd)pyrene	16.97	276	58273	8.077	ng	# 88
87) Benzo(b)fluoranthene	15.06	252	120905m	16.074	ng	
88) Benzo(k)fluoranthene	15.09	252	35162m	4.745	ng	
89) Benzo(a)pyrene	15.43	252	84792	12.399	ng	98
90) Dibenzo(a,h)anthracene	16.98	278	14380	2.385	ng	96
91) Benzo(a,h,i)perylene	17.42	276	57069	10.045	ng	# 93

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

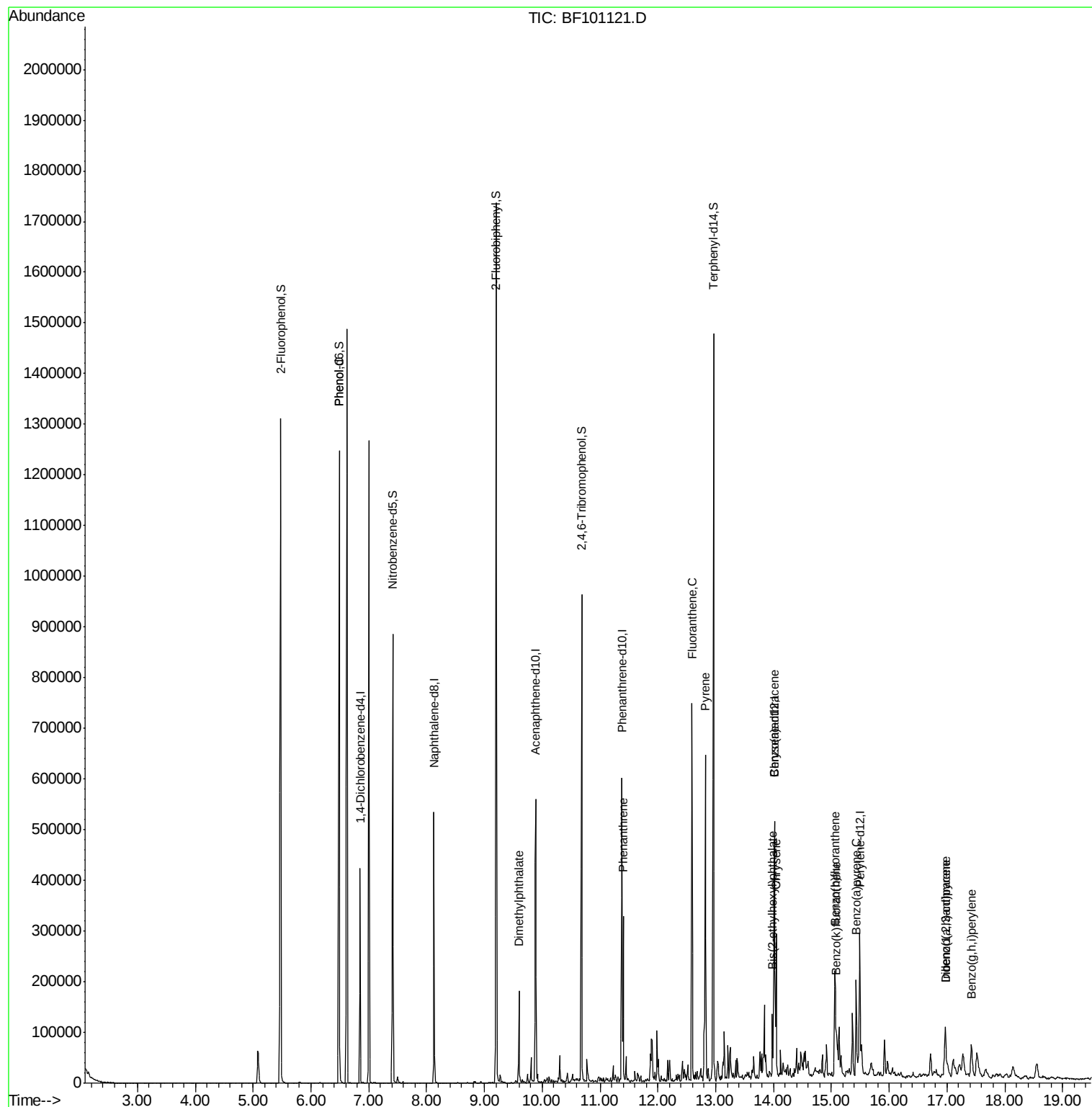
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
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ALS Vial : 10 Sample Multiplier: 1

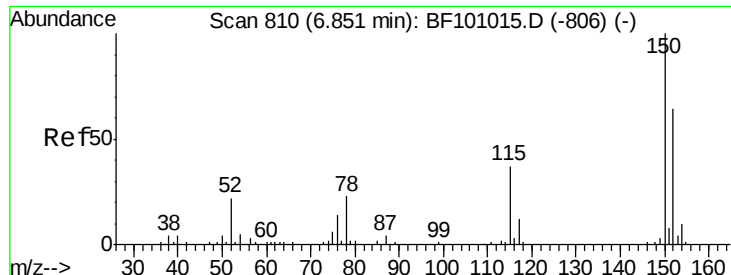
Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

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#1

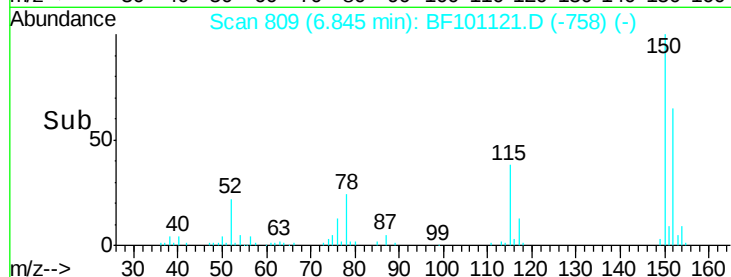
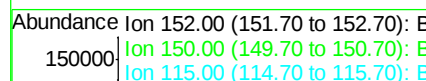
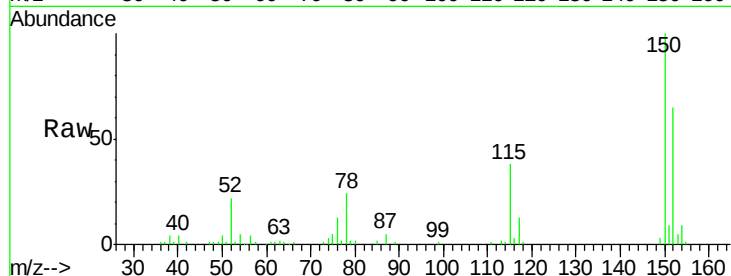
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

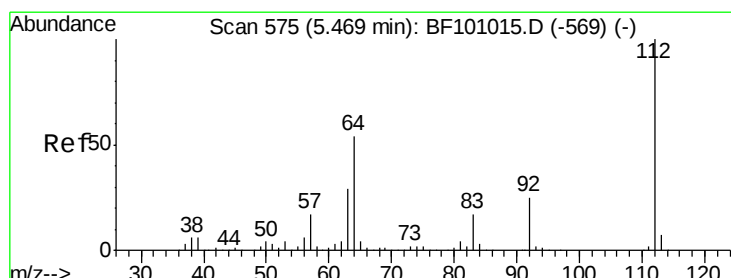
Tot Ion	Ratio	Lower	Upper
152	100		
150	153.2	124.6	186.8
115	58.7	50.1	75.1

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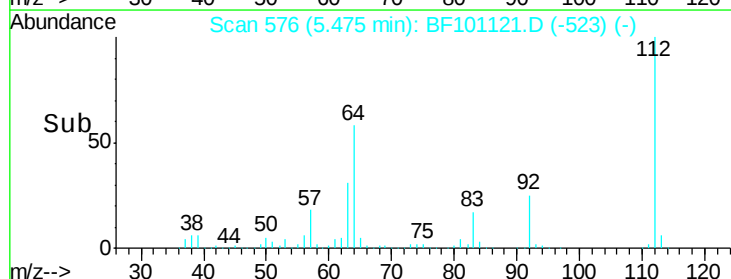
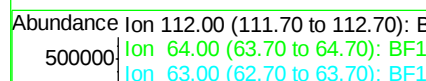
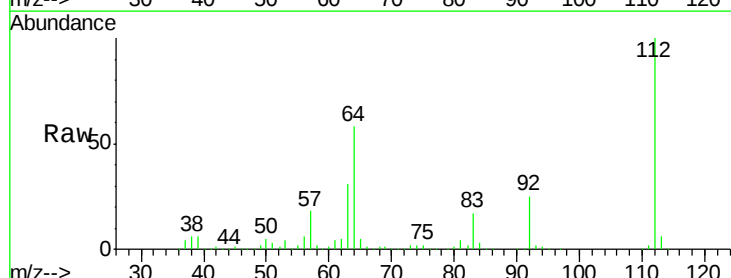
Time-->

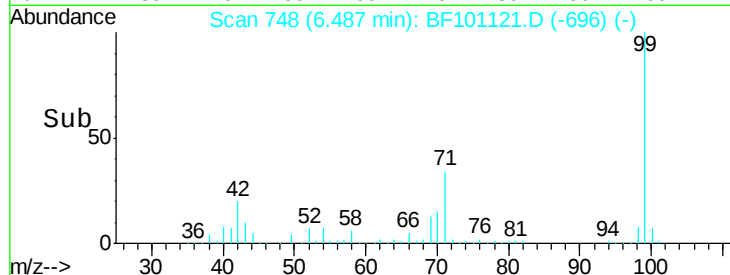
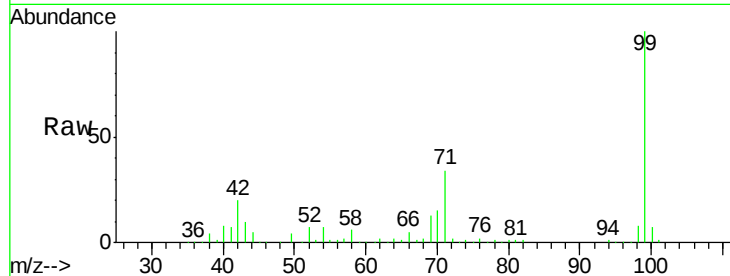
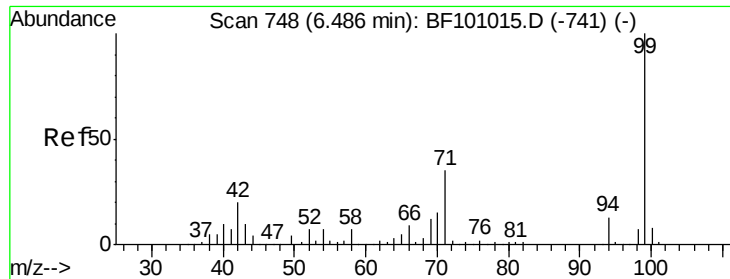


#5

2-Fluorophenol
Concen: 102.977 ng
RT: 5.47 min Scan# 576
Delta R.T. 0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.0	47.9	71.9
63	31.0	23.7	35.5





#7

Phenol-d6

Concen: 102.591 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.01 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

Tot Ion:	99	Resp:	448642
Ion Ratio	Lower	Upper	
99	100		
42	20.4	14.5	21.7
71	34.0	25.4	38.0

Instrument :

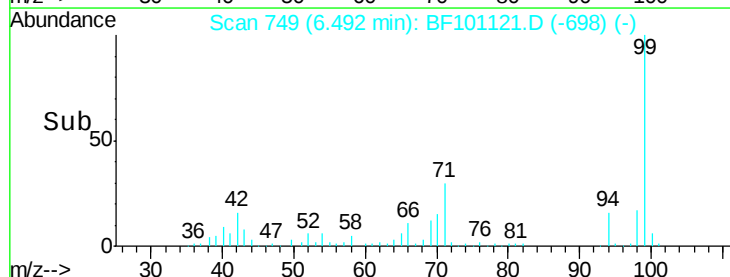
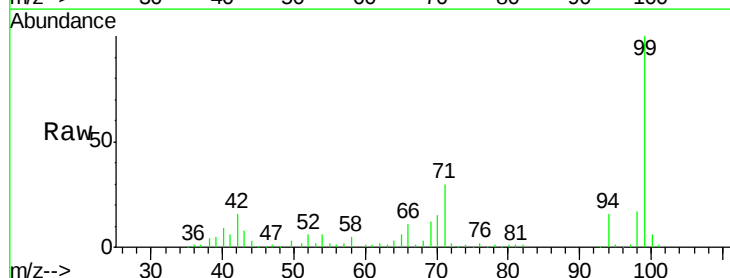
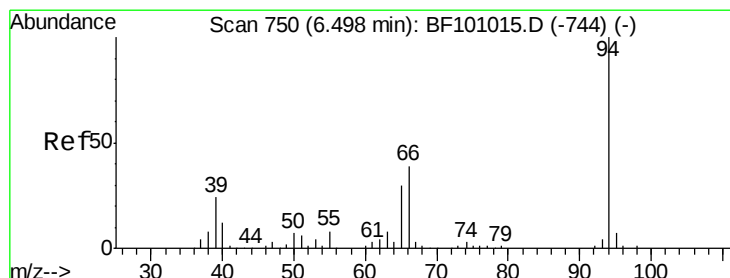
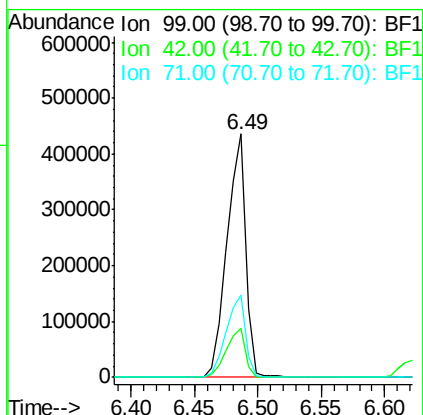
BNA_F

ClientSampleId :

Driveway-Paving-2(0-12)

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#10

Phenol

Concen: 3.164 ng

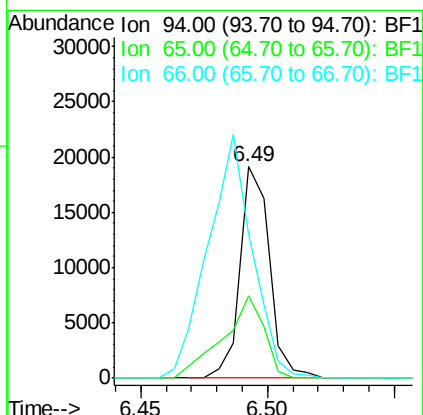
RT: 6.49 min Scan# 749

Delta R.T. 0.00 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

Tgt Ion:	94	Resp:	15386
Ion Ratio	Lower	Upper	
94	100		
65	38.9	7.9	47.9
66	67.9	16.2	56.2#





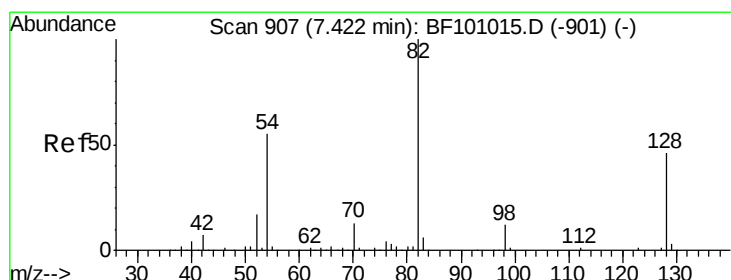
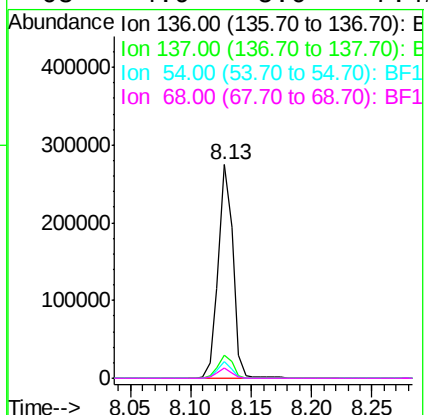
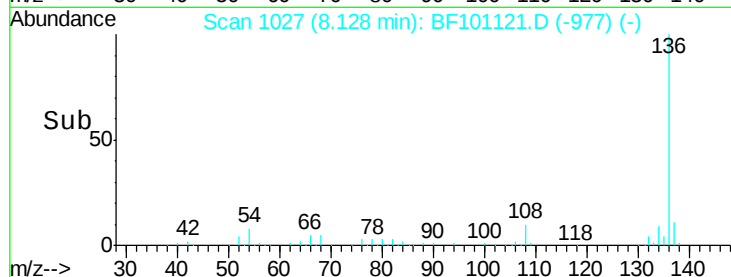
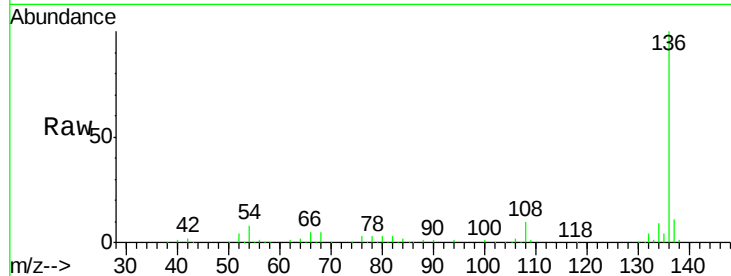
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		229316		
137	10.8		8.9	13.3	
54	7.8		6.6	9.8	
68	4.9		5.0	7.4	

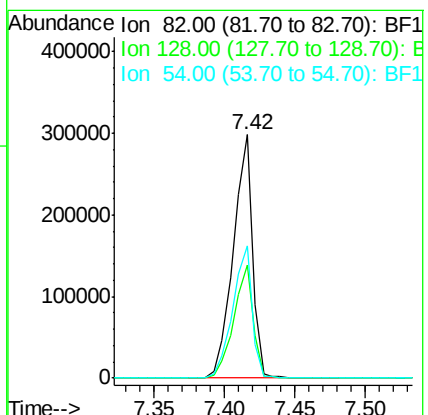
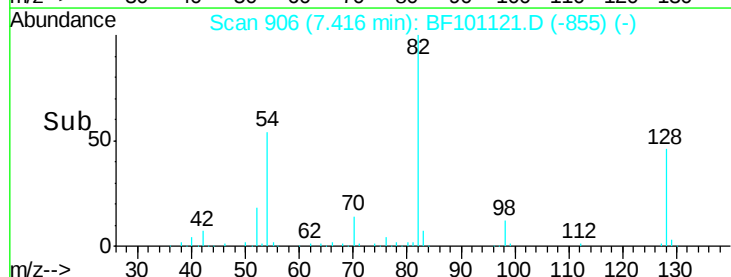
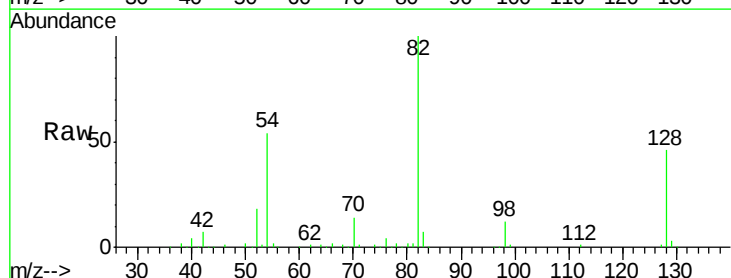
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#23
Nitrobenzene-d5
Concen: 73.805 ng
RT: 7.42 min Scan# 906
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		283718		
128	46.5		36.1	54.1	
54	54.1		41.4	62.2	





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.00 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

Instrument :

BNA_F

ClientSampleId :

Driveway-Paving-2(0-12)

Tot Ion:164 Resp: 107637

Ion Ratio Lower Upper

164 100

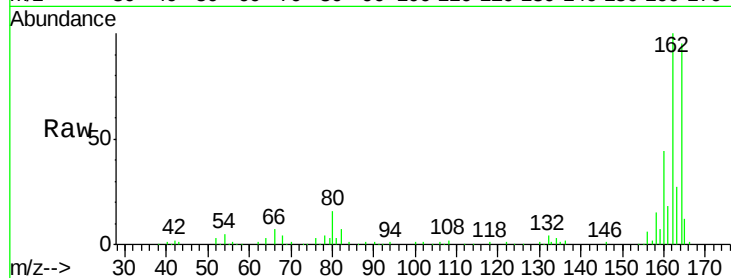
162 105.0 86.1 129.1

160 46.1 38.3 57.5

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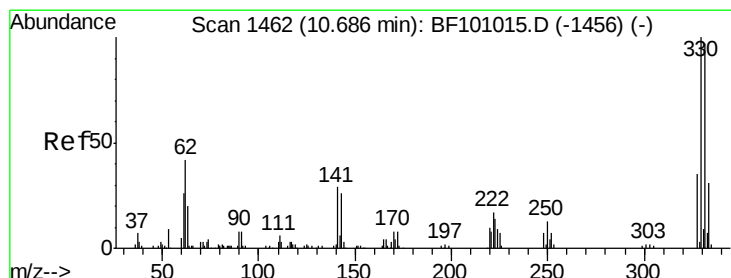
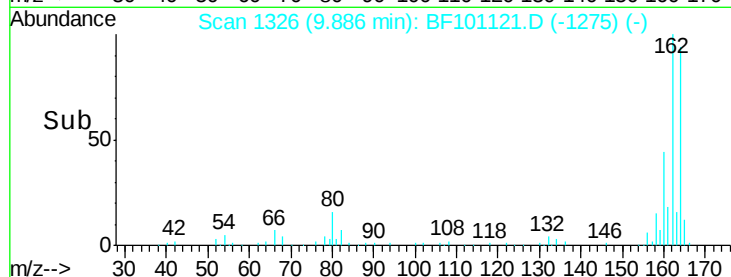
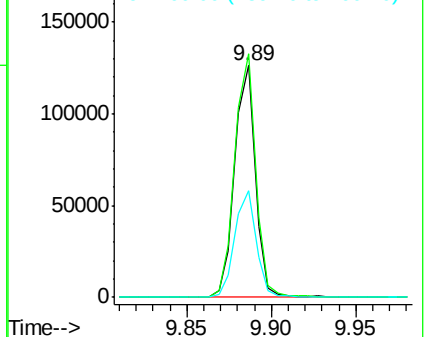
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 97.355 ng

RT: 10.68 min Scan# 1461

Delta R.T. 0.00 min

Lab File: BF101121.D

Acq: 5 Dec 2017 13:48

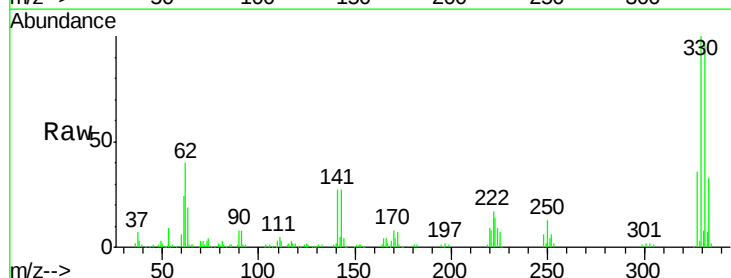
Tgt Ion:330 Resp: 125882

Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.6

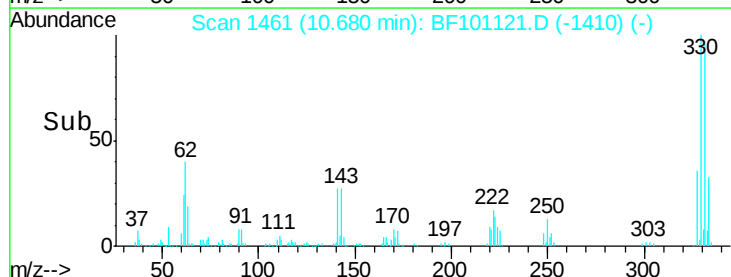
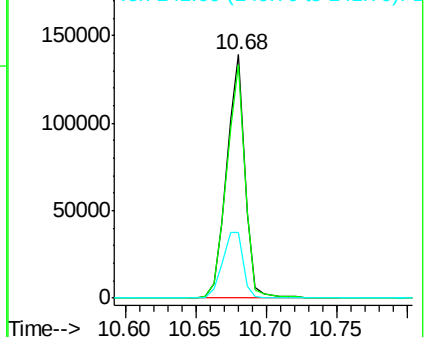
141 30.6 29.9 44.9



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





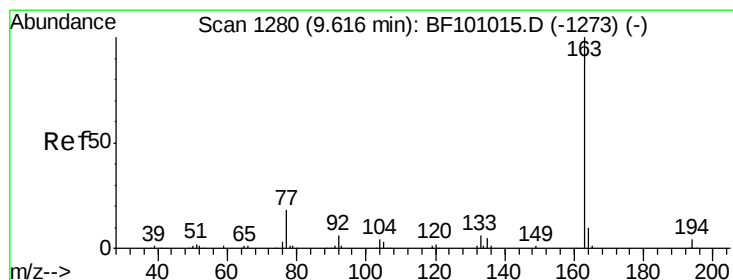
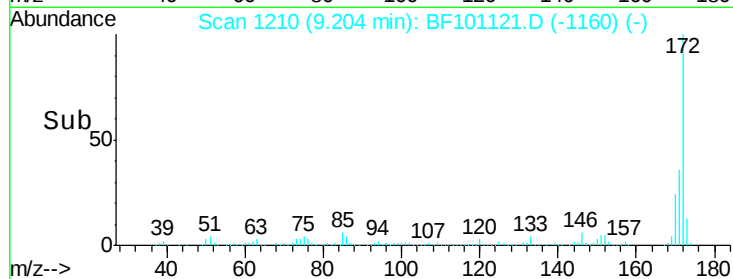
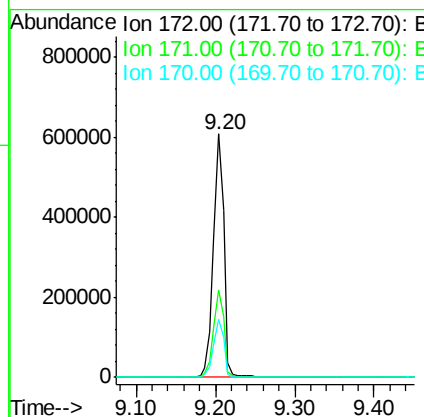
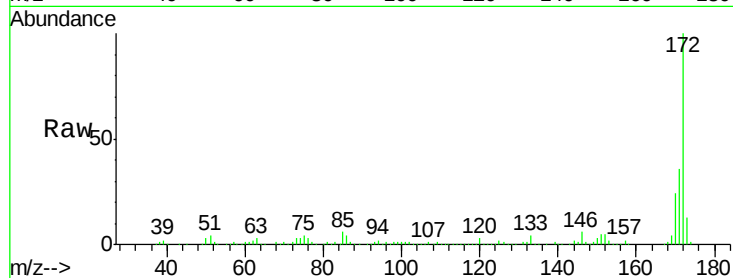
#44
2-Fluorobiphenyl
Concen: 71.173 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.7	44.5
170	23.7	19.6	29.4

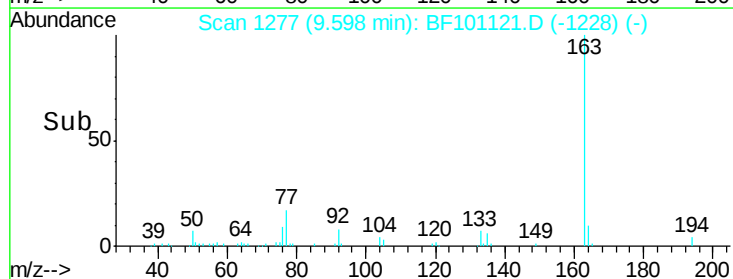
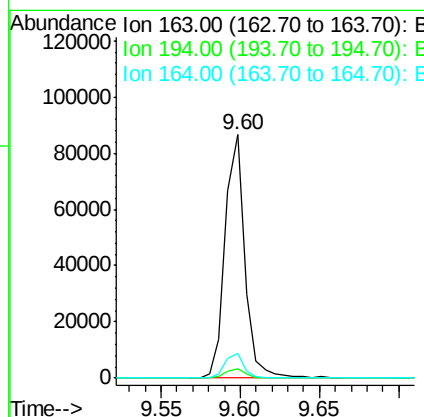
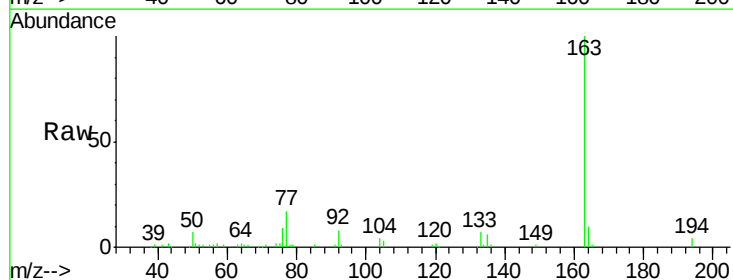
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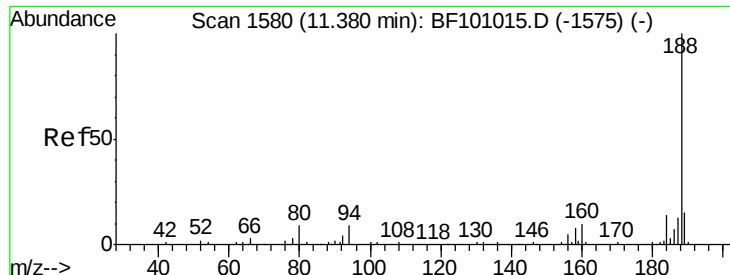
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#49
Dimethylphthalate
Concen: 8.646 ng
RT: 9.60 min Scan# 1277
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.7	4.1
164	10.3	8.2	12.2





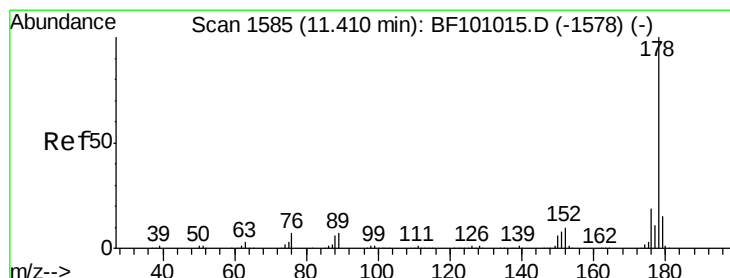
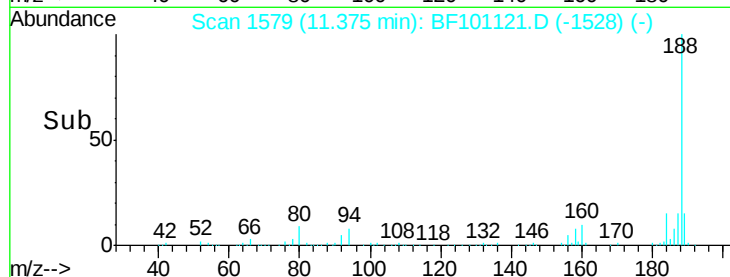
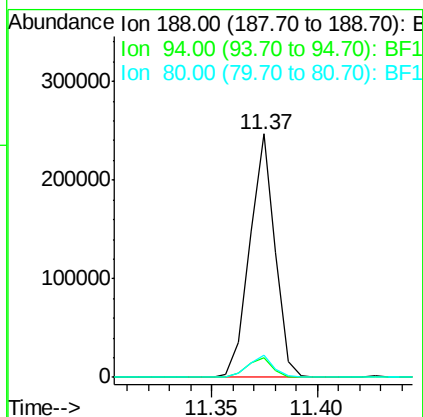
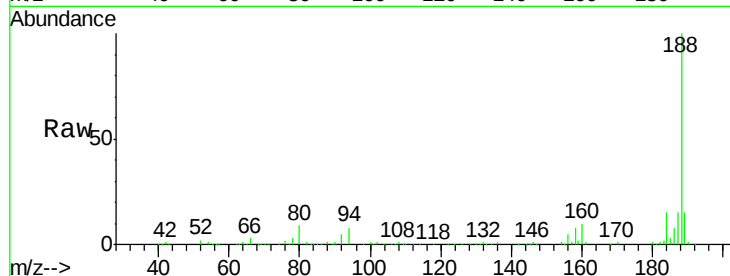
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	7.9	8.5	12.7#
80	8.9	9.2	13.8#

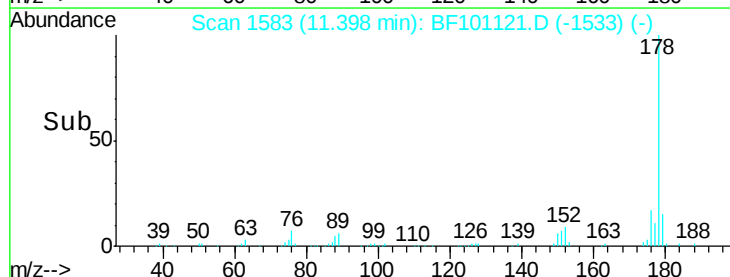
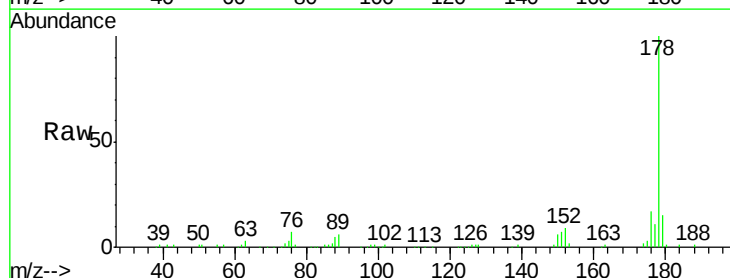
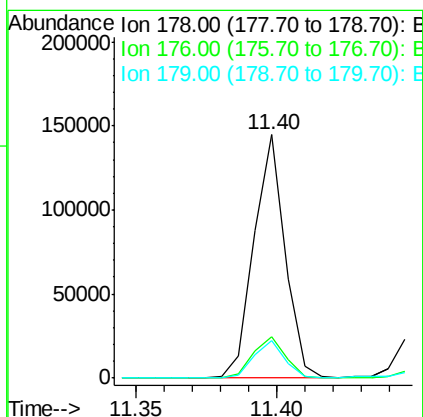
Manual Integrations
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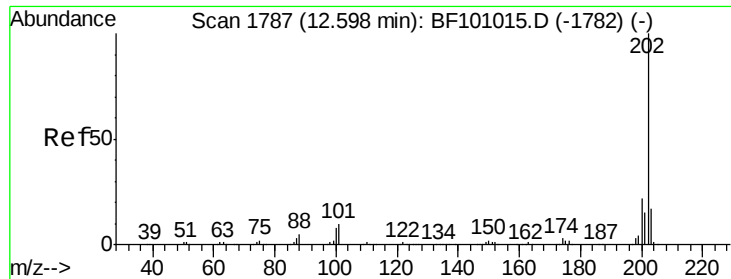
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#70
Phenanthrene
Concen: 9.842 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	17.0	15.8	23.8
179	15.5	13.0	19.6





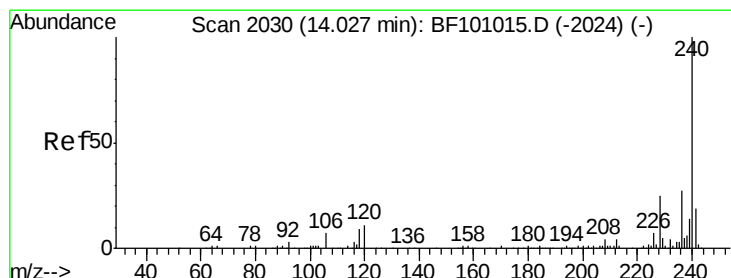
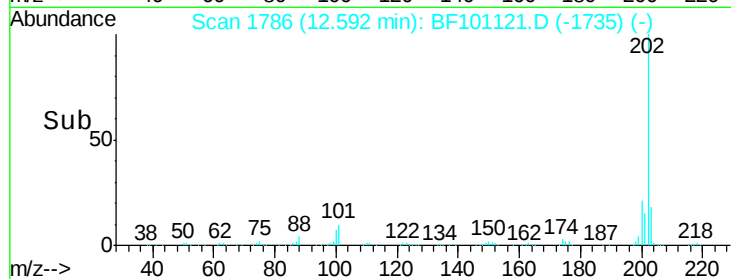
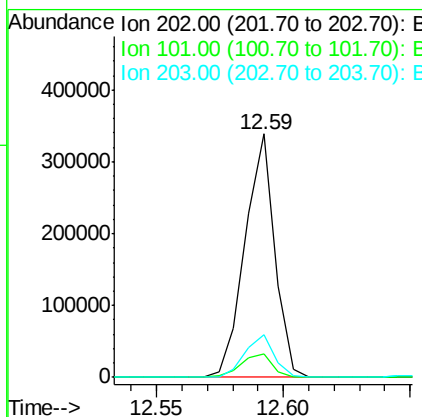
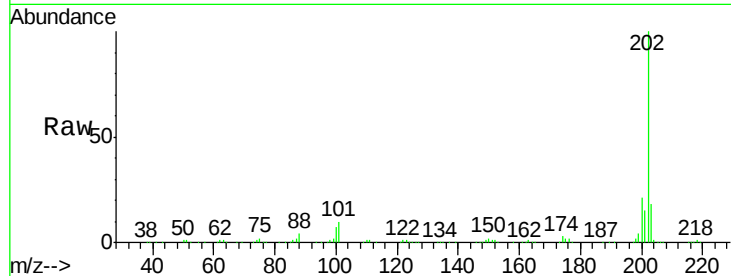
#74
Fluoranthene
Concen: 22.161 ng
RT: 12.59 min Scan# 1786
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	9.8	0.0	34.1
203	17.5	0.0	38.1

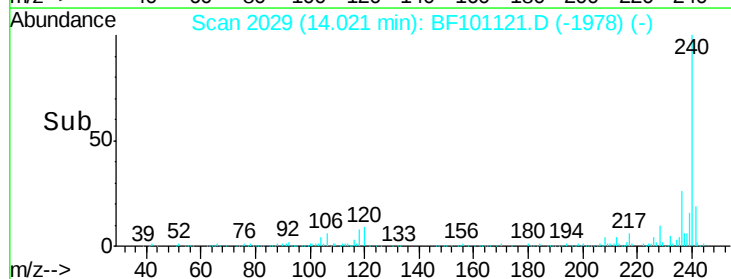
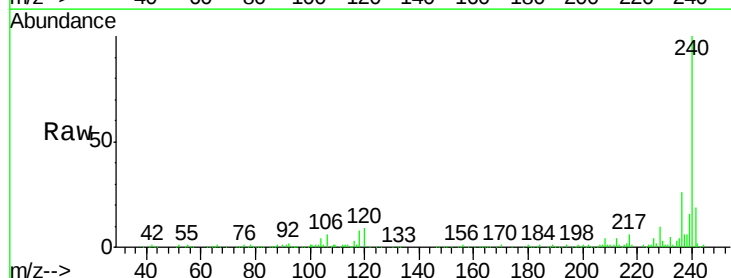
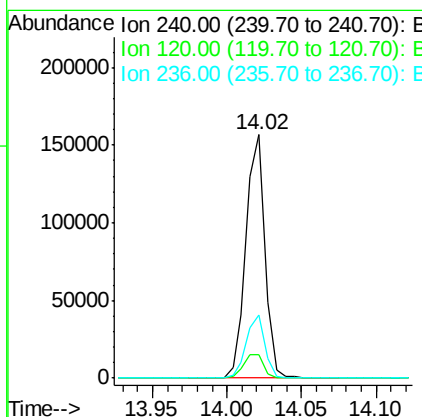
Manual Integrations
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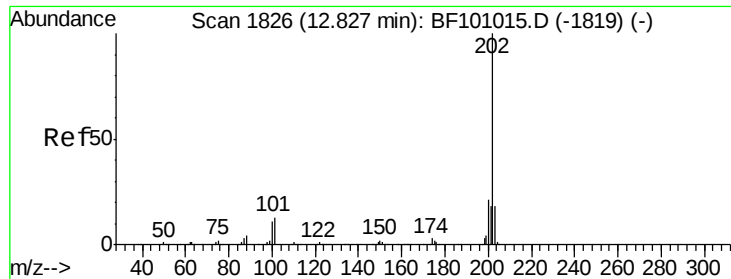
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#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	9.5	9.5	14.3#
236	25.9	20.7	31.1





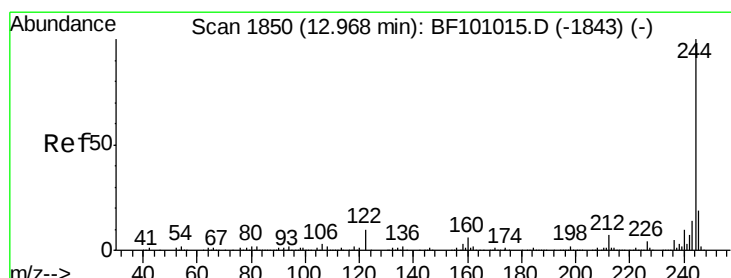
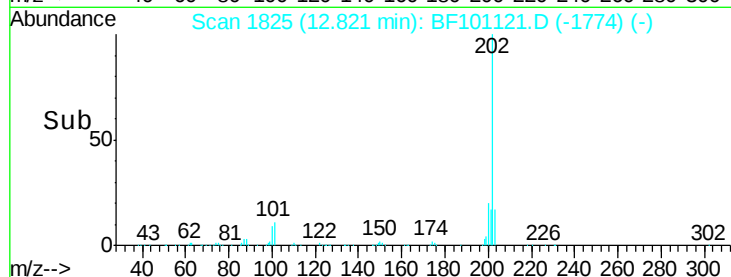
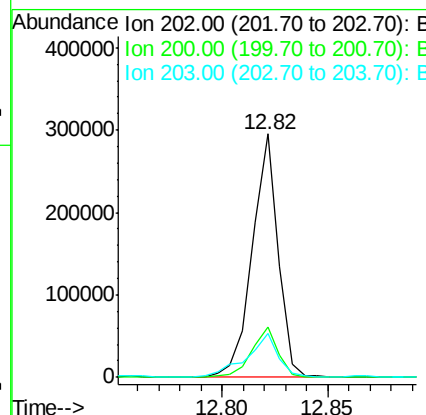
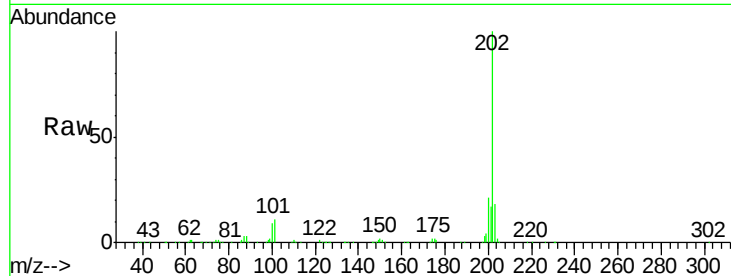
#77
Pvrene
Concen: 26.448 ng
RT: 12.82 min Scan# 1825
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.5	17.4	26.2
203	17.9	14.3	21.5

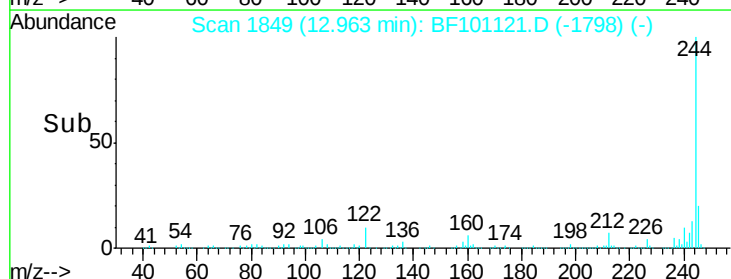
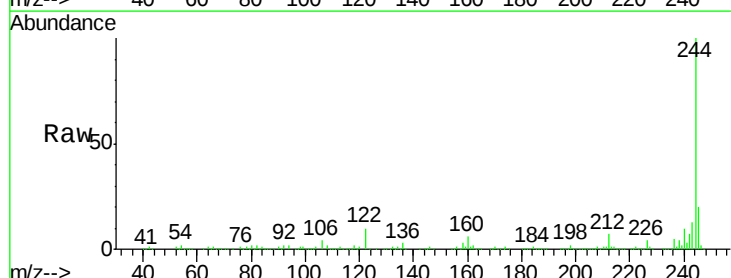
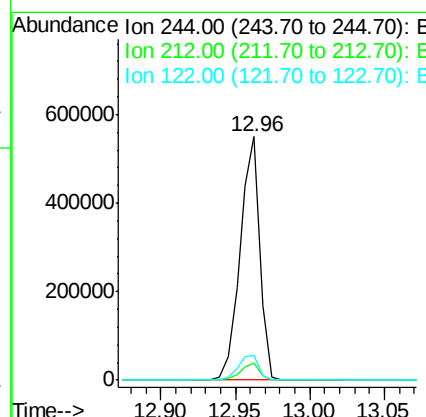
Manual Integrations
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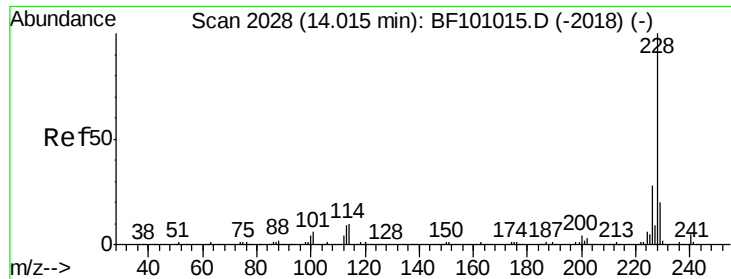
Sohil
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#78
Terphenyl-d14
Concen: 80.265 ng
RT: 12.96 min Scan# 1849
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.0
122	10.1	11.0	16.4#





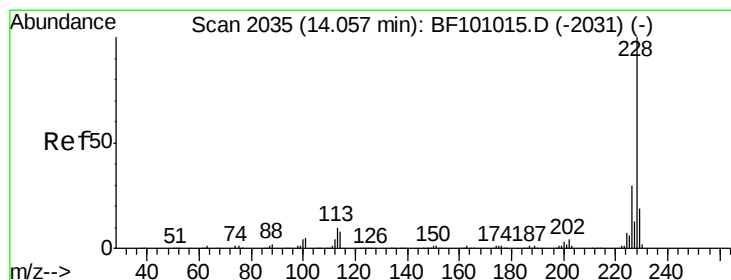
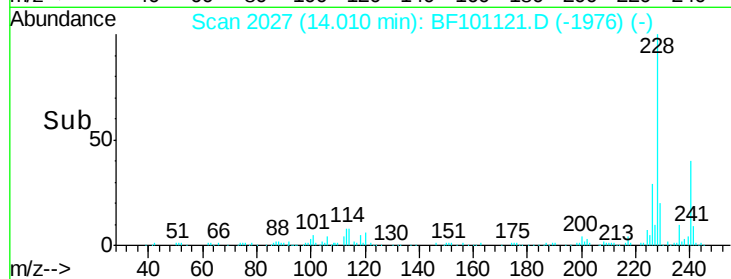
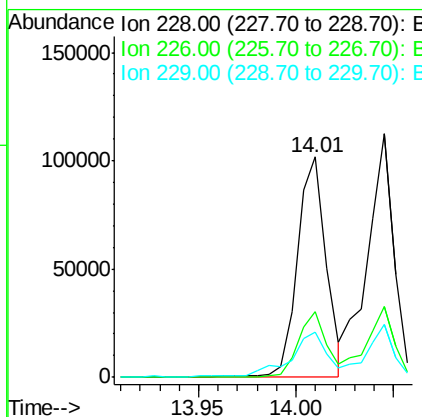
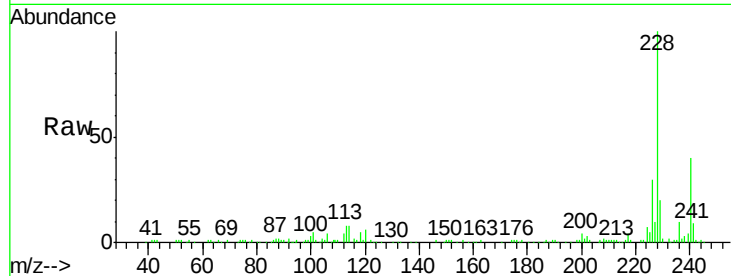
#80
Benzo(a)anthracene
Concen: 11.878 ng
RT: 14.01 min Scan# 2027
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.6	33.8
229	20.4	15.8	23.6

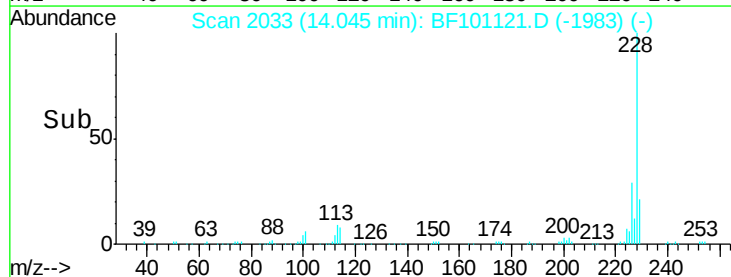
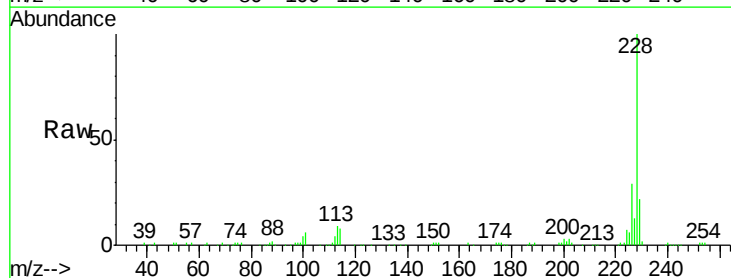
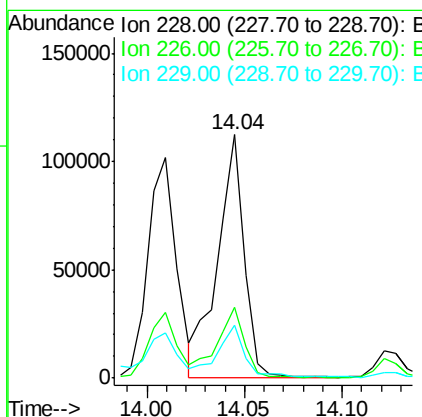
Manual Integrations
APPROVED

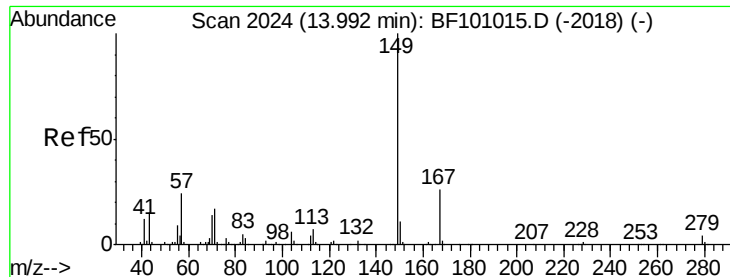
Sohil
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#82
Chrysene
Concen: 13.159 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	25.0	37.6
229	21.7	16.2	24.4





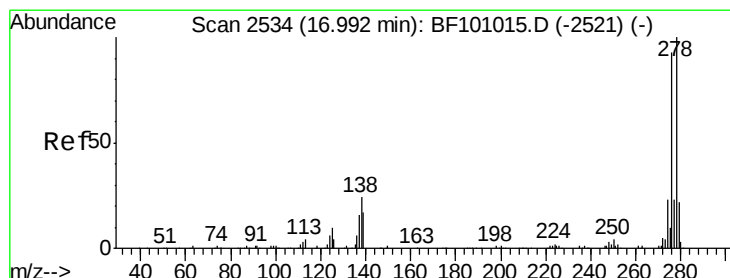
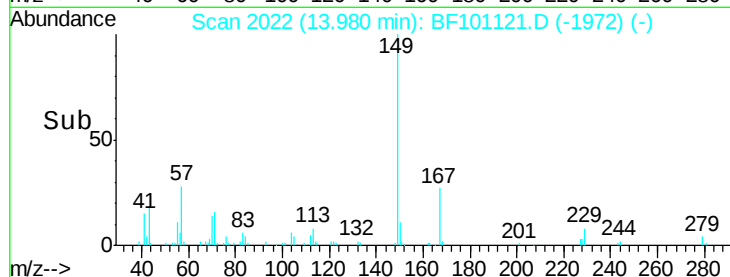
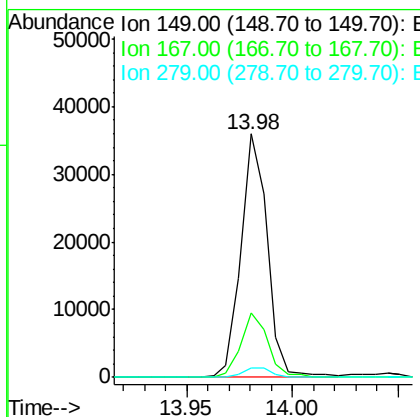
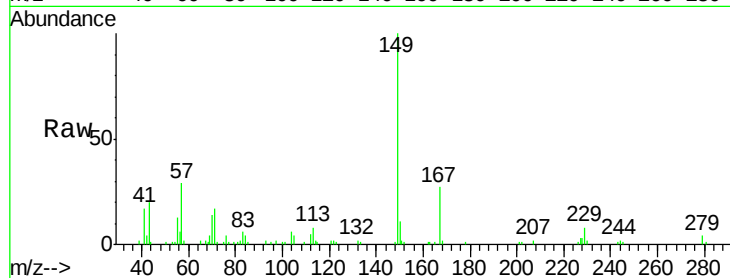
#83
Bis(2-ethylhexyl)phthalate
Concen: 5.186 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

Tot Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.3	31.9
279	4.0	3.0	4.4

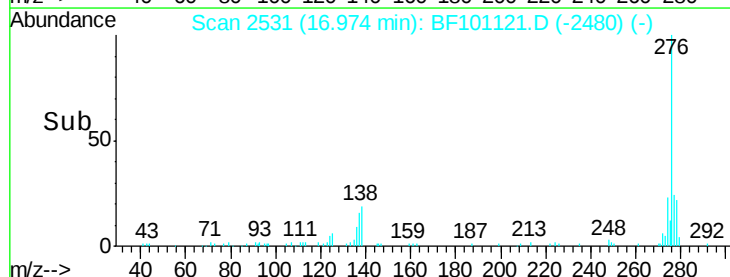
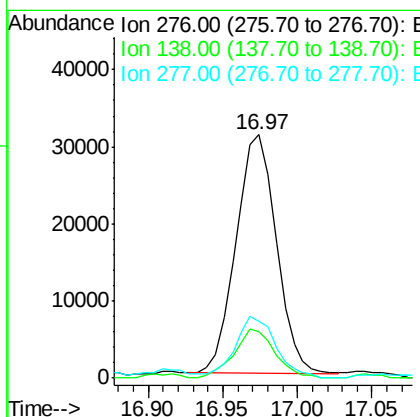
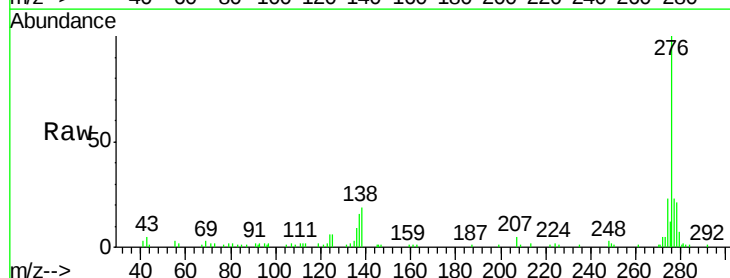
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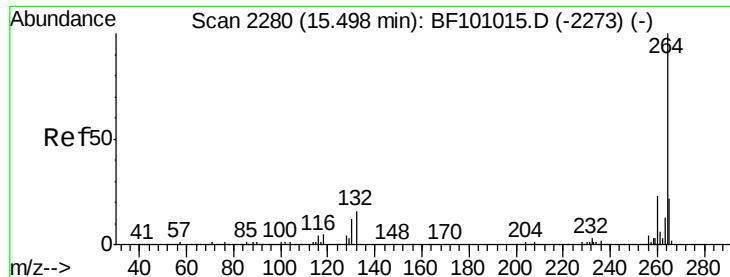
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 8.077 ng
RT: 16.97 min Scan# 2531
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.7	25.0	37.6#
277	26.2	20.1	30.1





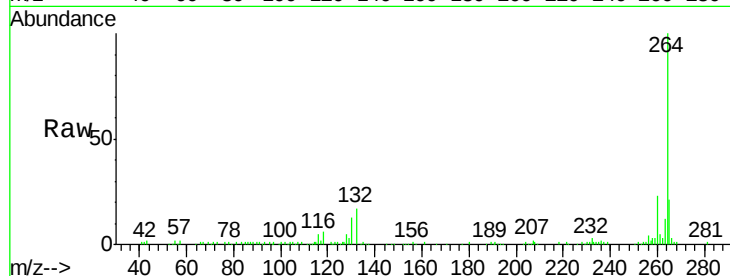
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

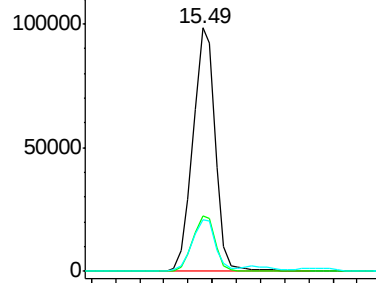
Tot Ion	Ratio	Lower	Upper
264	100		
260	22.6	19.2	28.8
265	21.0	17.5	26.3

Manual Integrations
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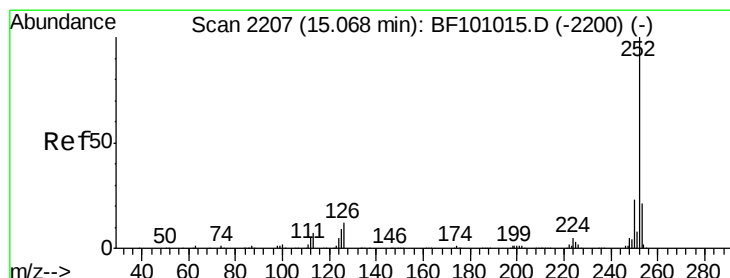
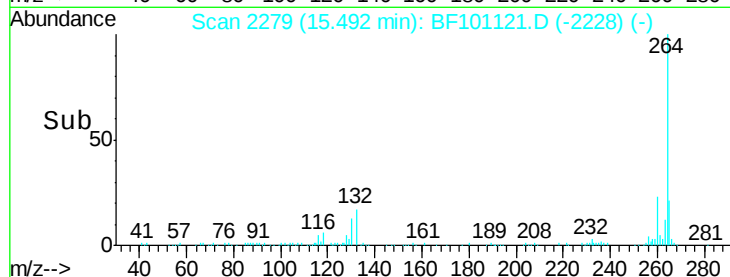
Sohil
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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

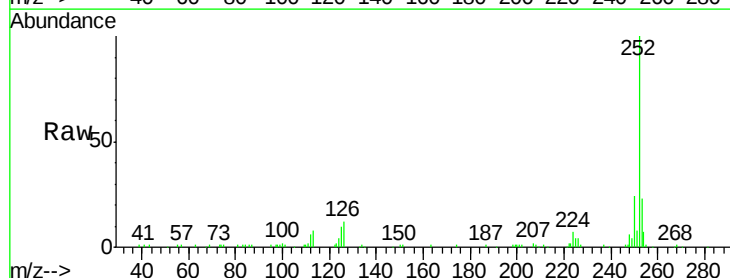


Time--> 15.40 15.50 15.60

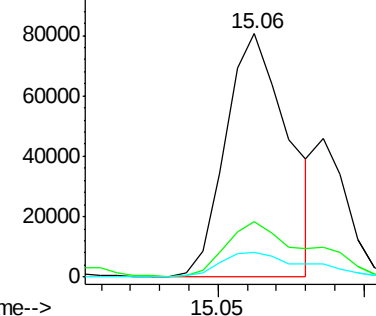


#87
Benzo(b)fluoranthene
Concen: 16.074 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.00 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

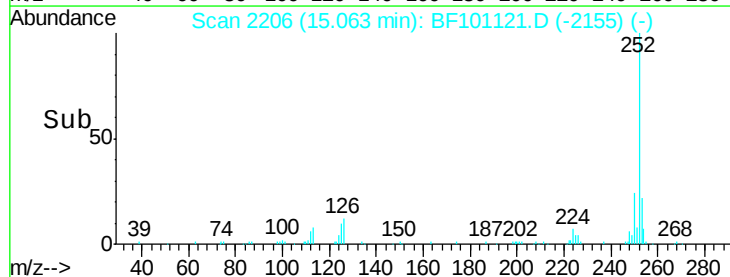
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	10.0	9.0	13.6

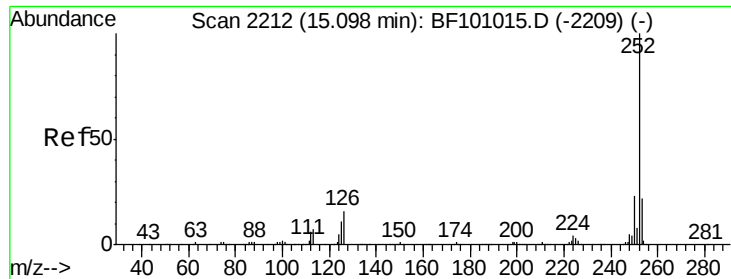


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time--> 15.05





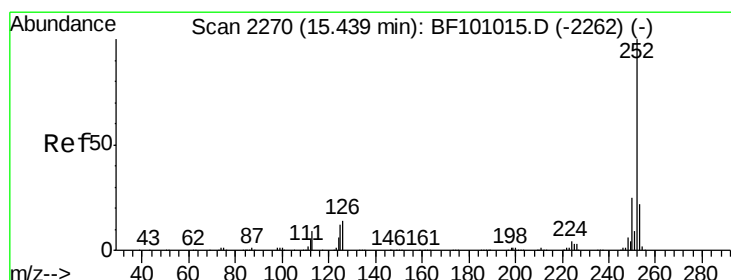
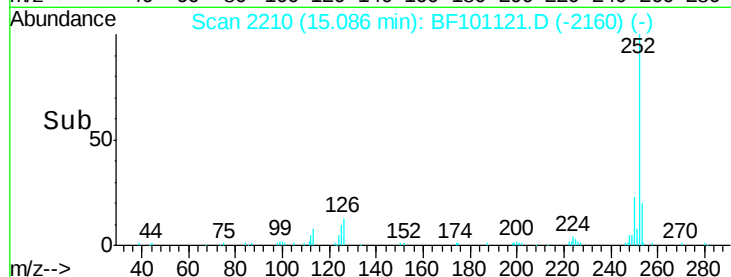
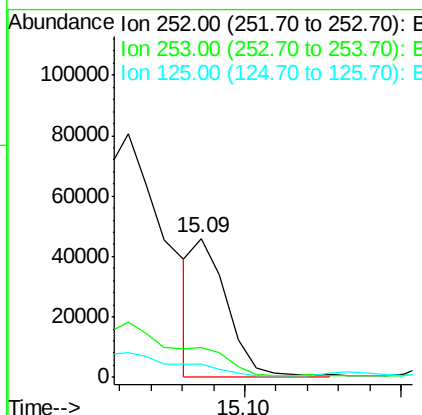
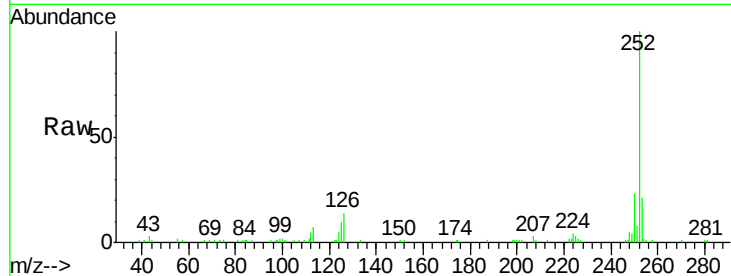
#88
Benzo(k)fluoranthene
Concen: 4.745 ng m
RT: 15.09 min Scan# 2210
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.9	26.9
125	9.7	10.2	15.2

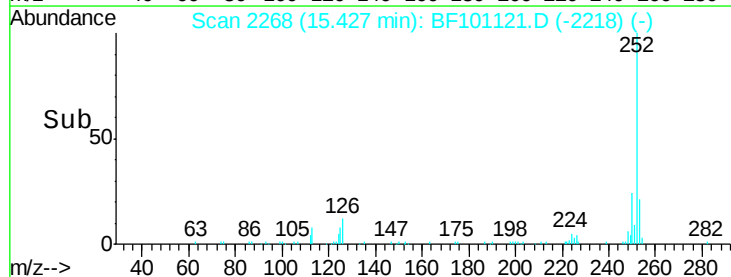
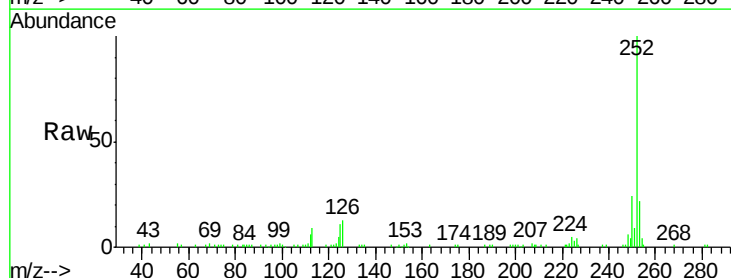
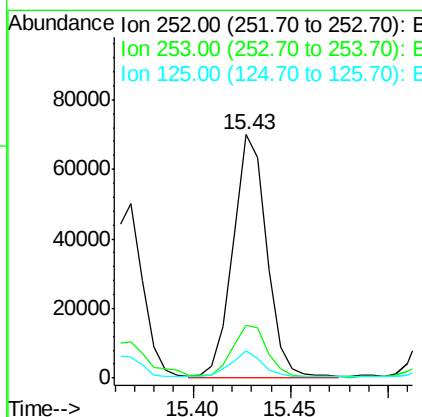
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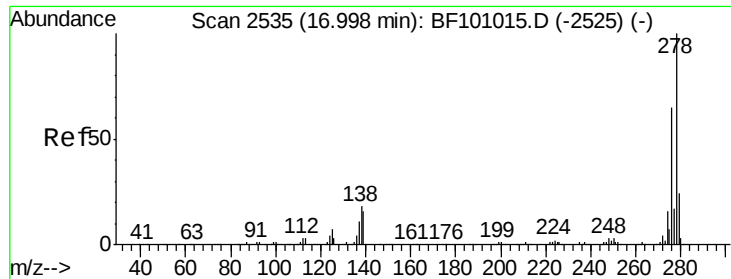
Sohil
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#89
Benzo(a)pyrene
Concen: 12.399 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	11.1	9.8	14.6





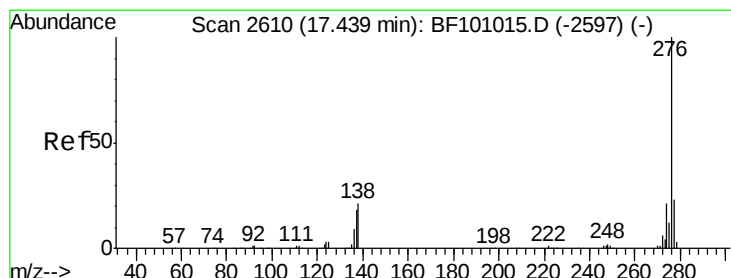
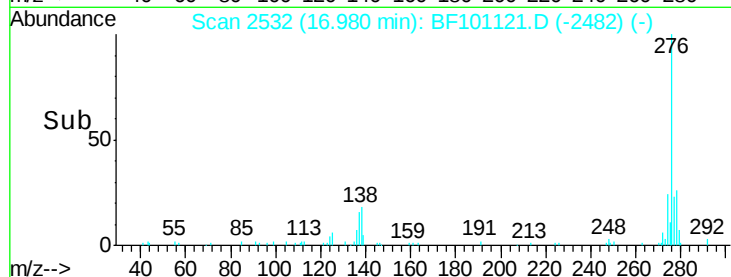
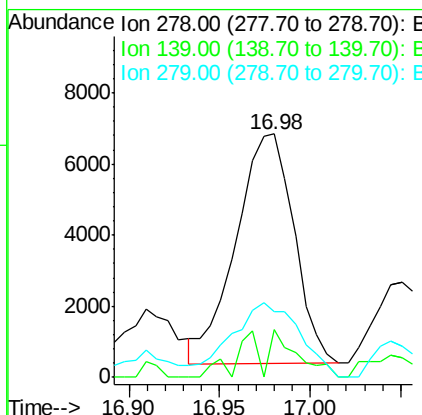
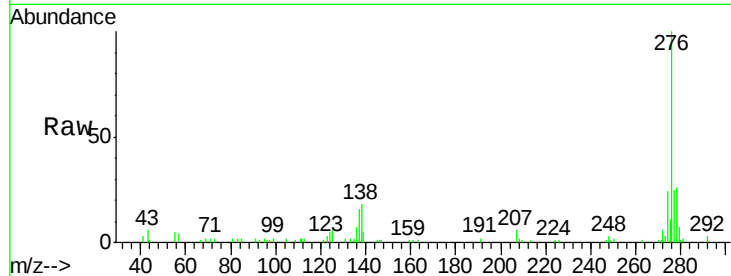
#90
Dibenzo(a,h)anthracene
Concen: 2.385 ng
RT: 16.98 min Scan# 2532
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Instrument :
BNA_F
ClientSampleId :
Driveway-Paving-2(0-12)

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.8	15.9	23.9
279	26.8	19.0	28.4

Manual Integrations
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12/6/2017 5:12:20 PM



#91
Benzo(g,h,i)perylene
Concen: 10.045 ng
RT: 17.42 min Scan# 2607
Delta R.T. -0.01 min
Lab File: BF101121.D
Acq: 5 Dec 2017 13:48

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.9	17.9	26.9
138	20.9	21.8	32.8#

