

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
 Data File : BF113805.D
 Acq On : 16 Apr 2019 20:49
 Operator : JU/SJ
 Sample : K2413-01 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-KY

Manual Integrations
 APPROVED

Sohil
 4/17/2019 3:45:50 PM

Quant Time: Apr 17 04:32:59 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 04 04:05:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	62908	20.00	ng	-0.01
21) Naphthalene-d8	7.96	136	226194	20.00	ng	-0.01
39) Acenaphthene-d10	9.70	164	92334	20.00	ng	-0.02
64) Phenanthrene-d10	11.19	188	163254	20.00	ng	-0.01
76) Chrysene-d12	13.83	240	170034	20.00	ng	-0.02
87) Perylene-d12	15.24	264	159279	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	280668	76.08	ng	0.00
7) Phenol-d6	6.34	99	375370	82.56	ng	0.00
23) Nitrobenzene-d5	7.25	82	206542	53.49	ng	-0.01
42) 2,4,6-Tribromophenol	10.50	330	71788	64.72	ng	-0.01
45) 2-Fluorobiphenyl	9.03	172	397794	69.36	ng	-0.02
79) Terphenyl-d14	12.76	244	367384	43.99	ng	-0.03
Target Compounds						
50) Dimethylphthalate	9.43	163	48922	7.188	ng	Qvalue 99
75) Fluoranthene	12.40	202	51456	5.919	ng	99
78) Pyrene	12.63	202	50354	3.892	ng	98
81) Benzo(a)anthracene	13.82	228	36976	3.770	ng	97
83) Chrysene	13.86	228	37774	3.799	ng	97
86) Indeno(1,2,3-cd)pyrene	16.63	276	23043	2.510	ng	97
88) Benzo(b)fluoranthene	14.84	252	64485m	6.614	ng	
89) Benzo(k)fluoranthene	14.87	252	21258m	2.429	ng	
90) Benzo(a)pyrene	15.19	252	41437	4.783	ng	# 92
92) Benzo(g,h,i)perylene	17.04	276	24612	2.976	ng	# 90

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

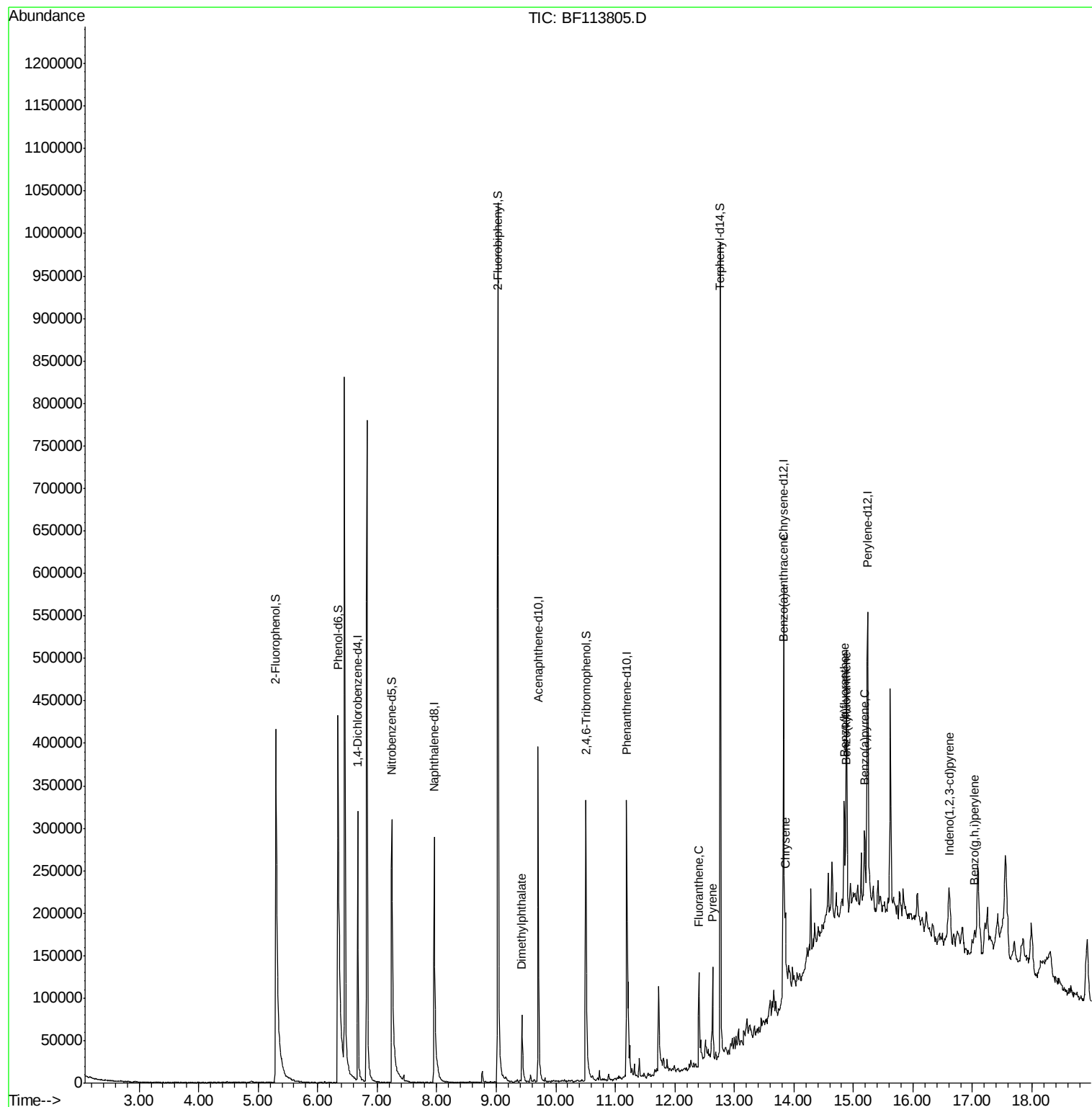
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113805.D
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Misc :
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#1

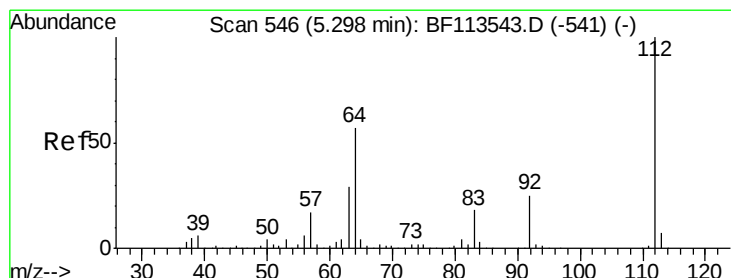
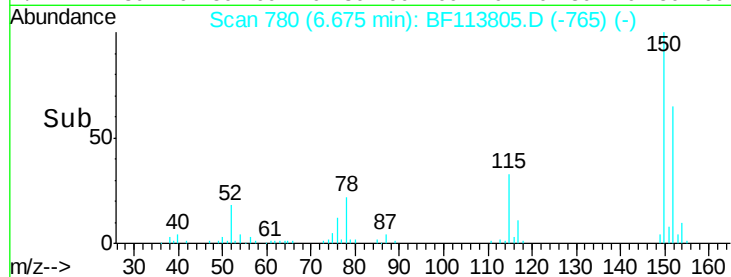
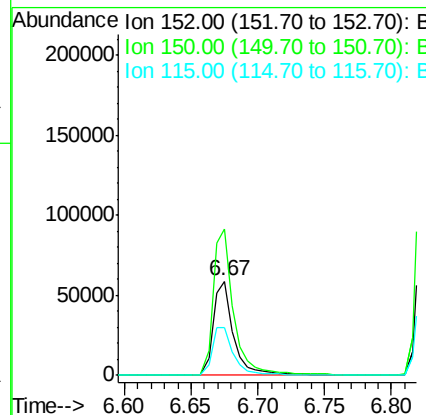
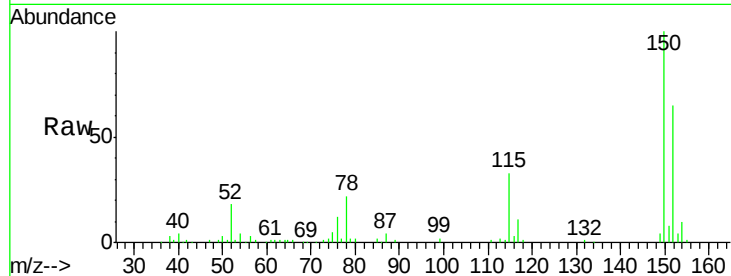
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.67 min Scan# 780
Delta R.T. -0.01 min
Lab File: BF113805.D
Acq: 16 Apr 2019 20:49

Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-KY

Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.6	124.7	187.1
115	50.4	46.0	69.0

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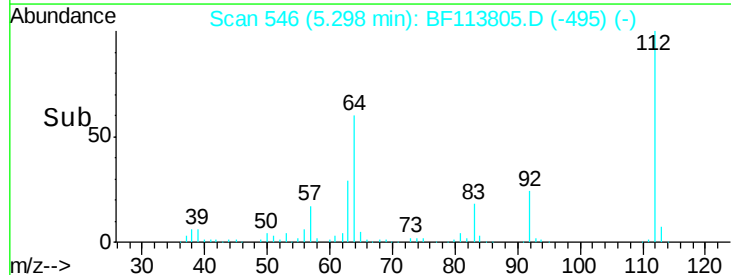
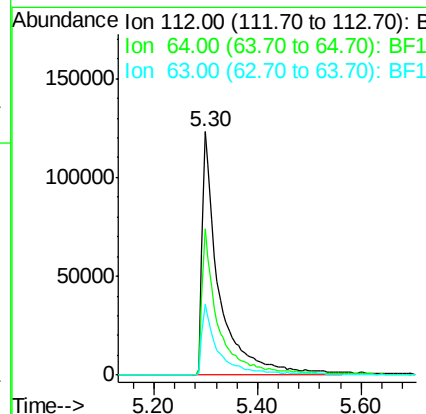
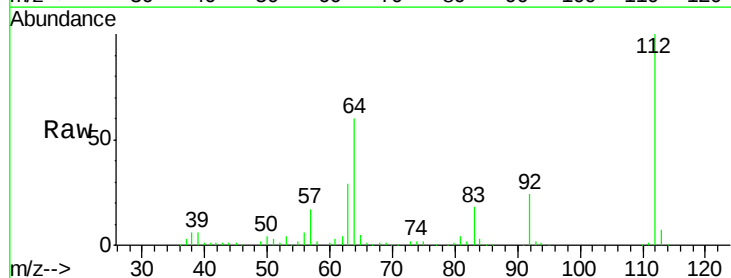
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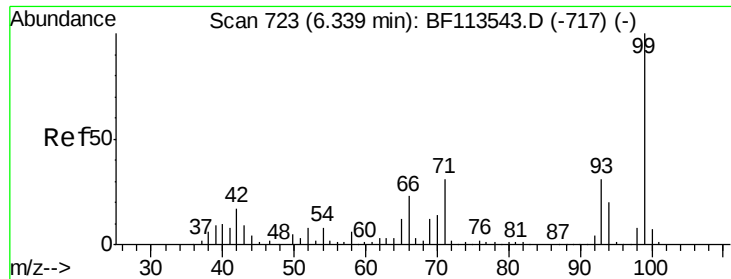


#5

2-Fluorophenol
Concen: 76.080 ng
RT: 5.30 min Scan# 546
Delta R.T. 0.00 min
Lab File: BF113805.D
Acq: 16 Apr 2019 20:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.0	49.2	73.8
63	29.3	24.9	37.3





#7

Phenol-d6

Concen: 82.556 ng

RT: 6.34 min Scan# 723

Delta R.T. 0.00 min

Lab File: BF113805.D

Acq: 16 Apr 2019 20:49

Instrument :

BNA_F

ClientSampleId :

NCC-TOPSOIL-KY

Tgt Ion: 99 Resp: 375370

Ion Ratio Lower Upper

99 100

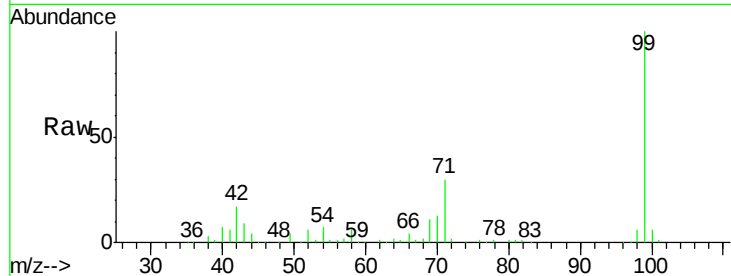
42 17.4 14.8 22.2

71 29.8 24.9 37.3

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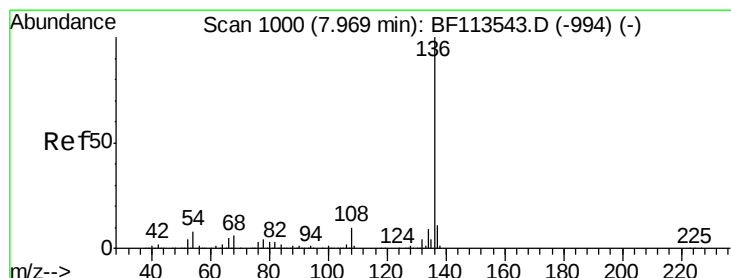
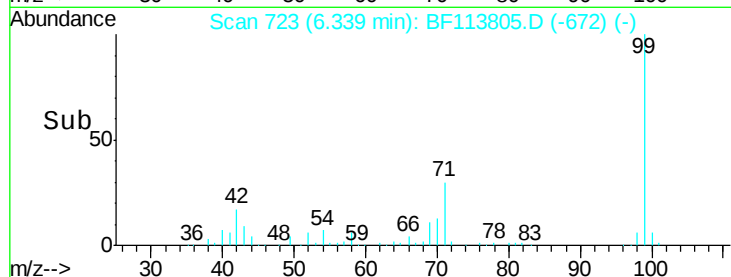
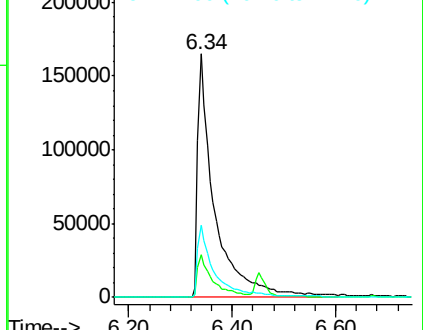
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.96 min Scan# 998

Delta R.T. -0.01 min

Lab File: BF113805.D

Acq: 16 Apr 2019 20:49

Tgt Ion: 136 Resp: 226194

Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 7.5 7.0 10.6

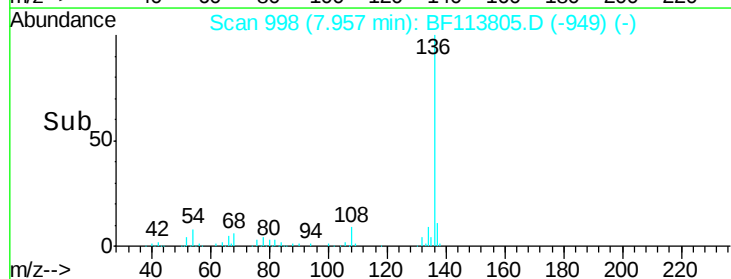
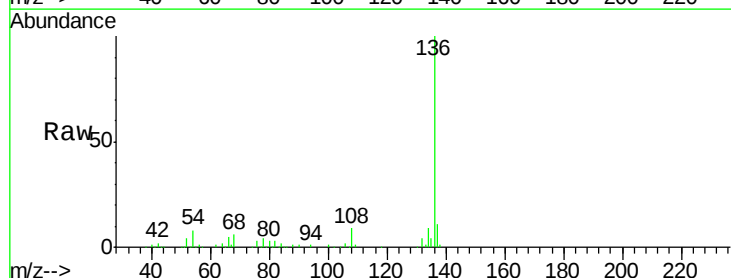
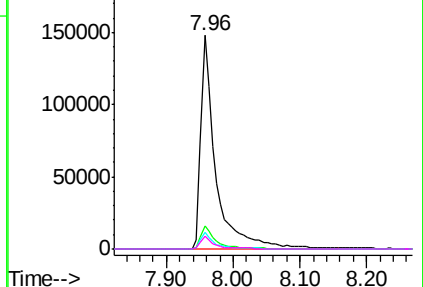
68 5.9 4.8 7.2

Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





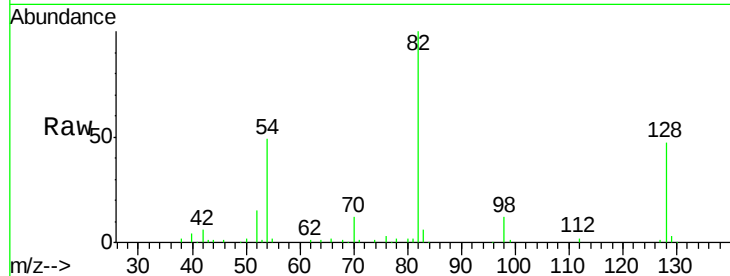
#23
Nitrobenzene-d5
Concen: 53.486 ng
RT: 7.25 min Scan# 877
Delta R.T. -0.01 min
Lab File: BF113805.D
Acq: 16 Apr 2019 20:49

Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-KY

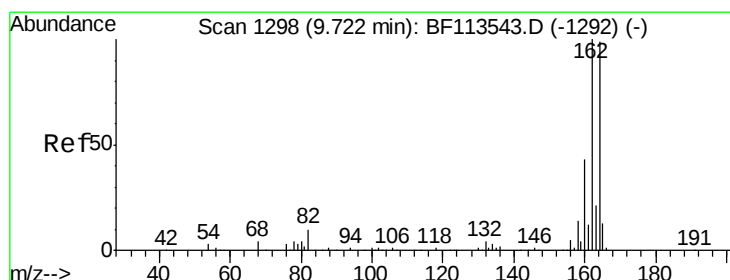
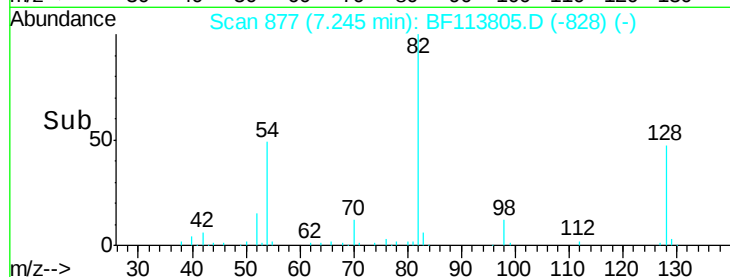
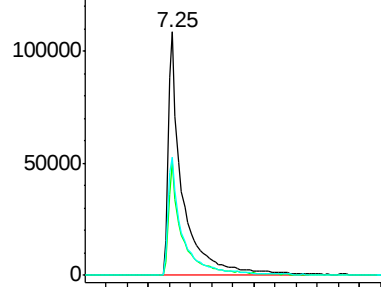
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	206542		
128	46.6	36.5	54.7	
54	48.6	42.2	63.2	

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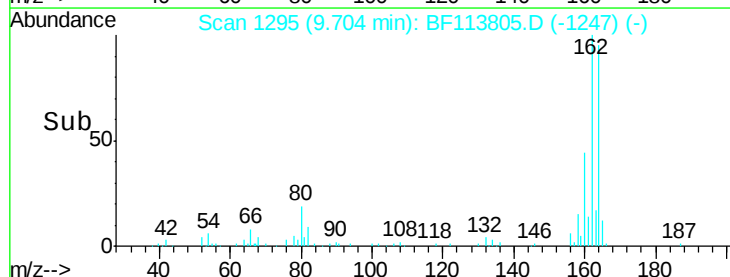
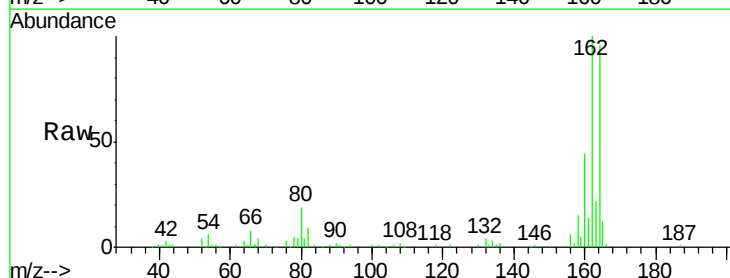
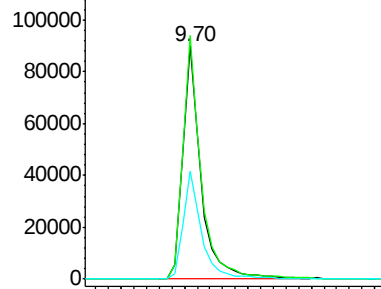
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.70 min Scan# 1295
Delta R.T. -0.02 min
Lab File: BF113805.D
Acq: 16 Apr 2019 20:49

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	92334		
162	104.5	81.8	122.6	
160	46.1	36.4	54.6	

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





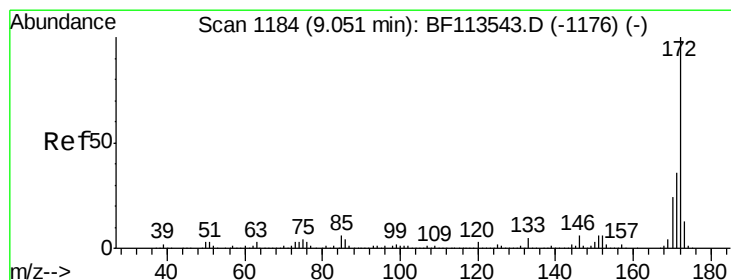
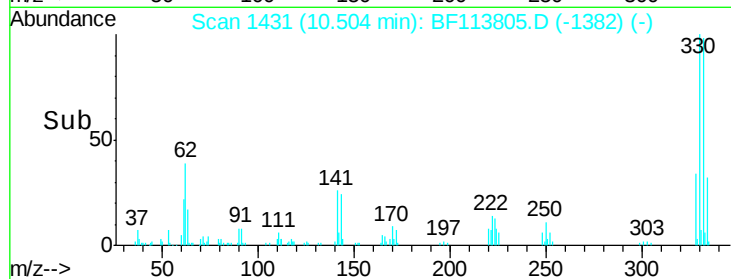
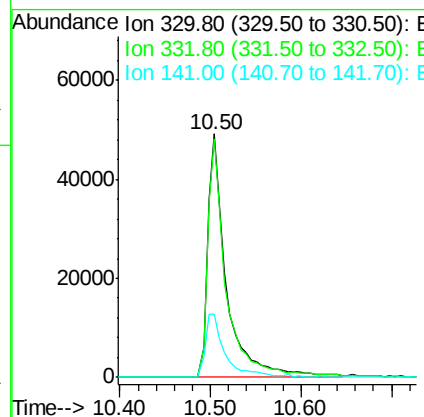
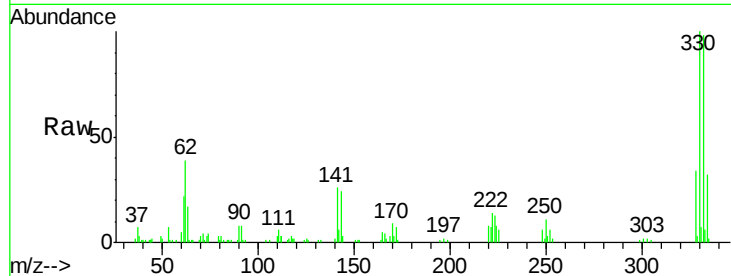
#42
 2,4,6-Tribromophenol
 Concen: 64.723 ng
 RT: 10.50 min Scan# 1431
 Delta R.T. -0.01 min
 Lab File: BF113805.D
 Acq: 16 Apr 2019 20:49

Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-KY

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.8	116.6
141	27.7	22.7	34.1

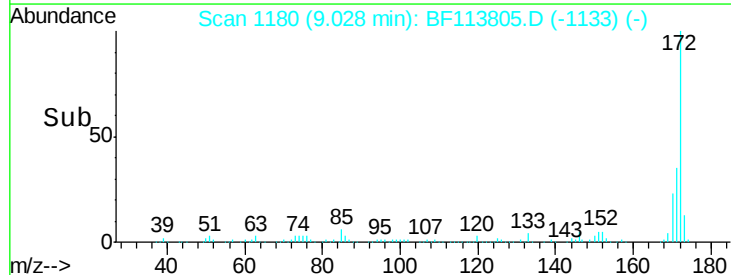
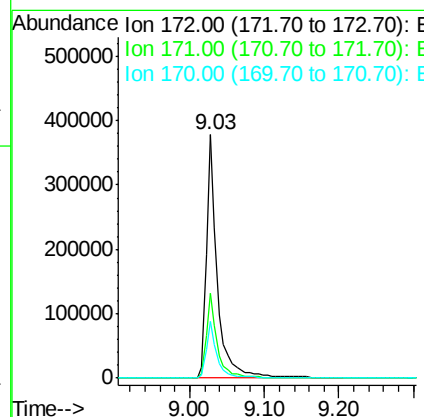
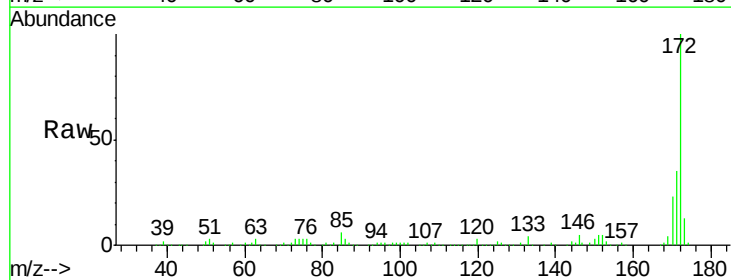
Manual Integrations
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#45
 2-Fluorobiphenyl
 Concen: 69.357 ng
 RT: 9.03 min Scan# 1180
 Delta R.T. -0.02 min
 Lab File: BF113805.D
 Acq: 16 Apr 2019 20:49

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.0	43.6
170	23.3	19.5	29.3





#50

Dimethylphthalate

Concen: 7.188 ng

RT: 9.43 min Scan# 1249

Delta R.T. -0.02 min

Lab File: BF113805.D

Acq: 16 Apr 2019 20:49

Instrument :

BNA_F

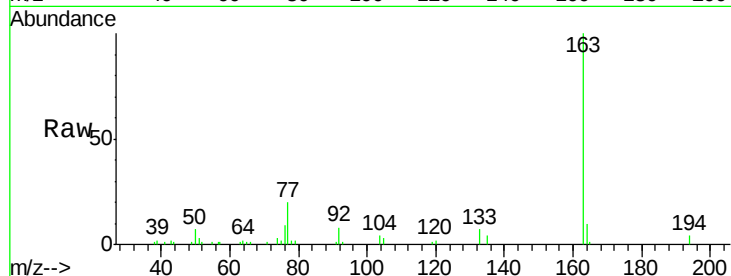
ClientSampleId :

NCC-TOPSOIL-KY

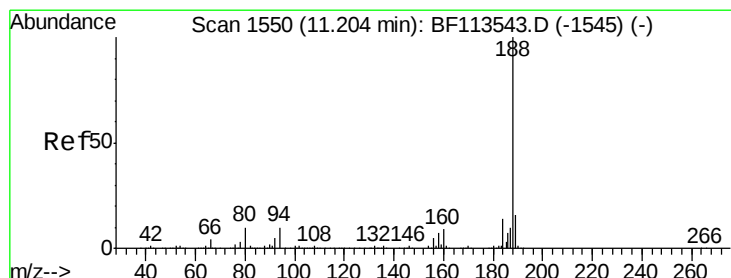
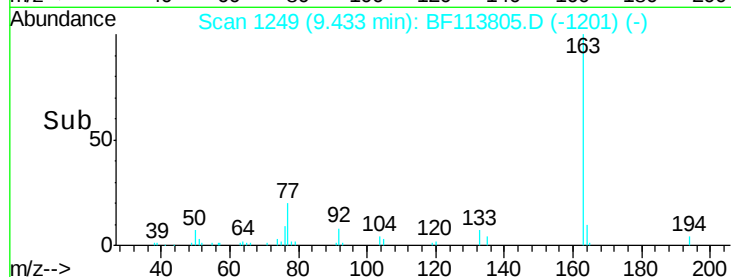
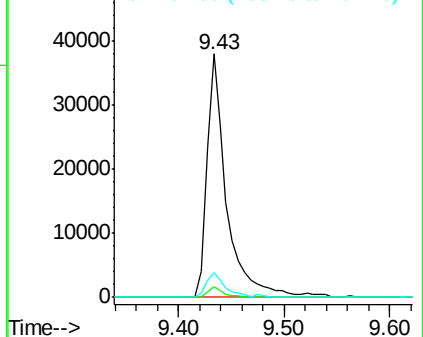
Tgt Ion:	163	Resp:	48922
Ion Ratio	Lower	Upper	
163	100		
194	4.3	3.0	4.6
164	10.0	8.1	12.1

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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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.19 min Scan# 1548

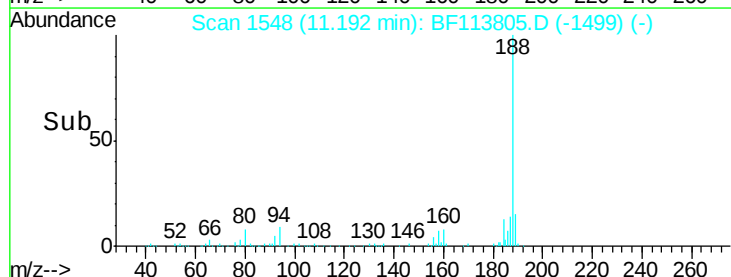
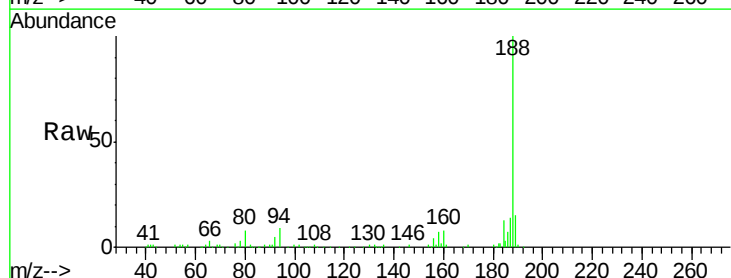
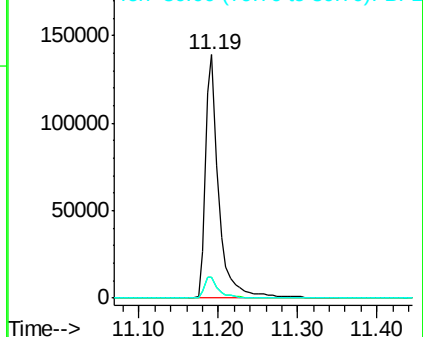
Delta R.T. -0.01 min

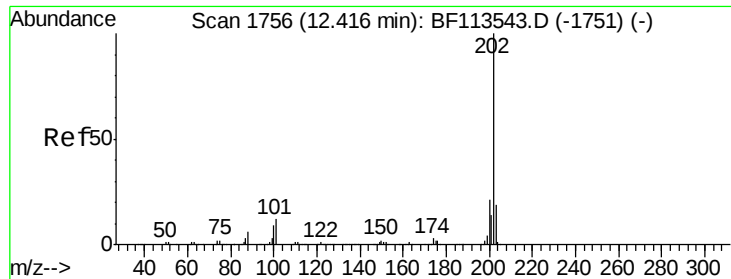
Lab File: BF113805.D

Acq: 16 Apr 2019 20:49

Tgt Ion:	188	Resp:	163254
Ion Ratio	Lower	Upper	
188	100		
94	8.6	7.0	10.6
80	8.4	7.7	11.5

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





#75

Fluoranthene

Concen: 5.919 ng

RT: 12.40 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF113805.D

Acq: 16 Apr 2019 20:49

Instrument :

BNA_F

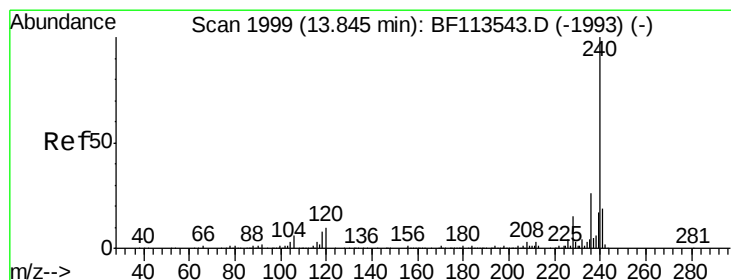
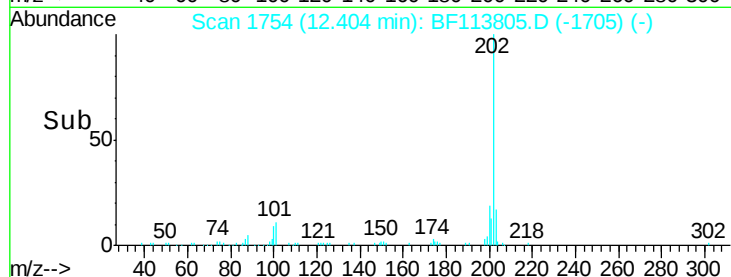
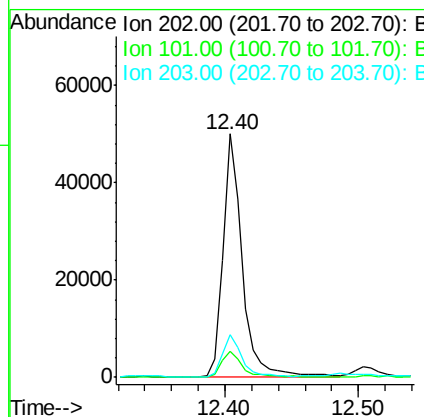
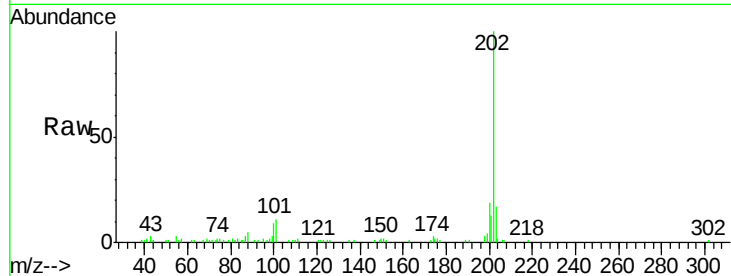
ClientSampleId :

NCC-TOPSOIL-KY

Tgt Ion:	202	Resp:	51456
Ion Ratio	Lower	Upper	
202	100		
101	10.8	0.0	31.4
203	17.4	0.0	38.0

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#76

Chrysene-d12

Concen: 20.000 ng

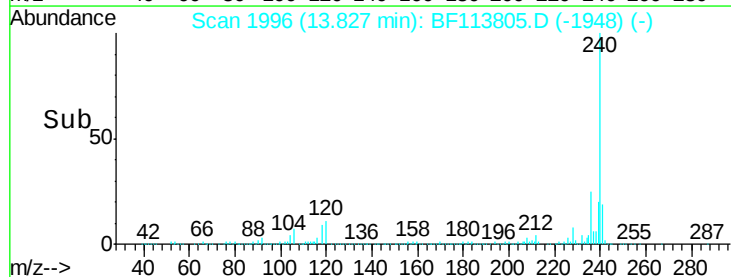
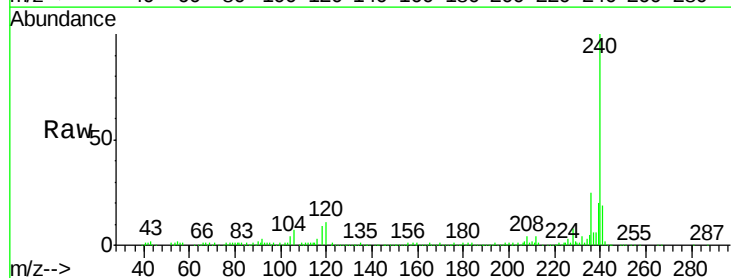
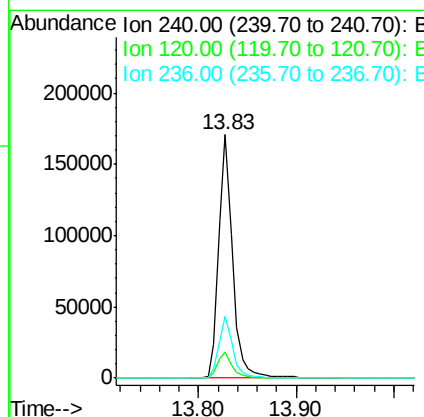
RT: 13.83 min Scan# 1996

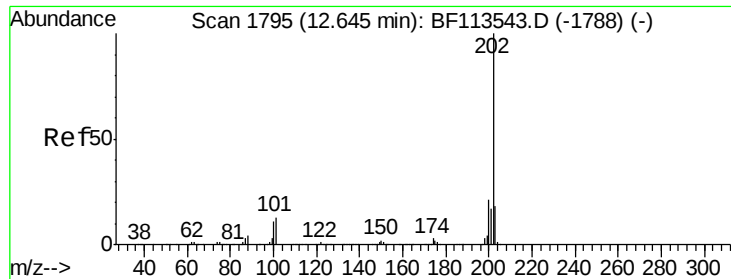
Delta R.T. -0.02 min

Lab File: BF113805.D

Acq: 16 Apr 2019 20:49

Tgt Ion:	240	Resp:	170034
Ion Ratio	Lower	Upper	
240	100		
120	10.6	8.8	13.2
236	25.4	20.9	31.3





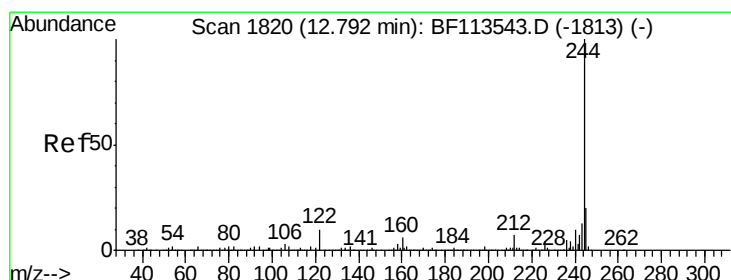
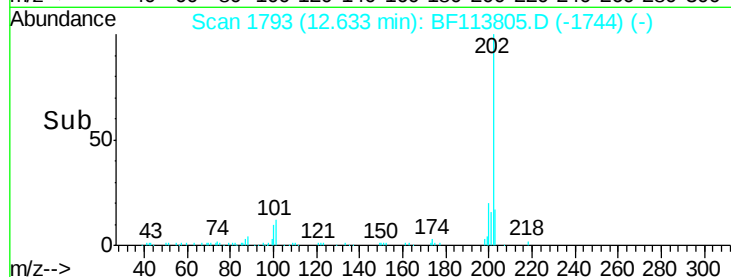
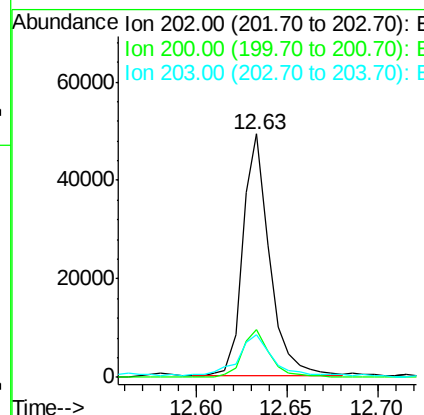
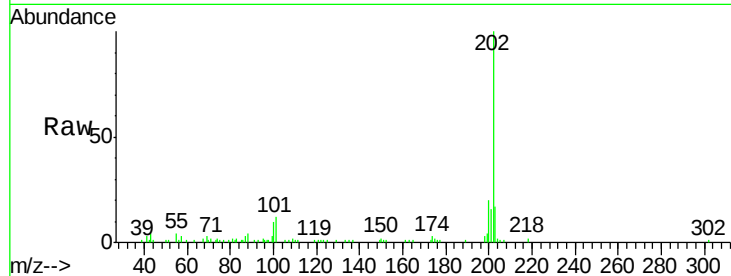
#78
 Pyrene
 Concen: 3.892 ng
 RT: 12.63 min Scan# 1793
 Delta R.T. -0.01 min
 Lab File: BF113805.D
 Acq: 16 Apr 2019 20:49

Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-KY

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	50354		
200	19.9		16.8	25.2
203	17.5		14.4	21.6

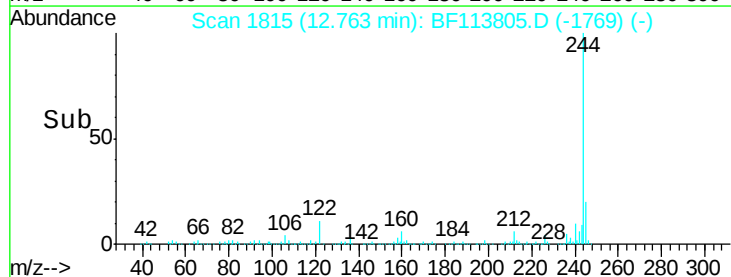
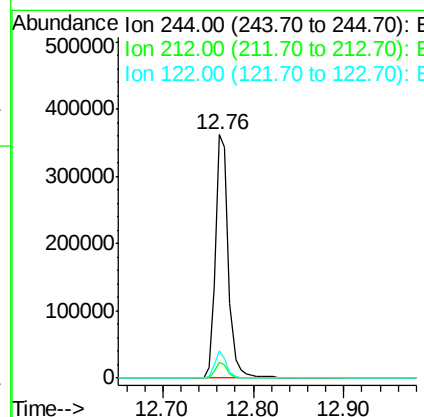
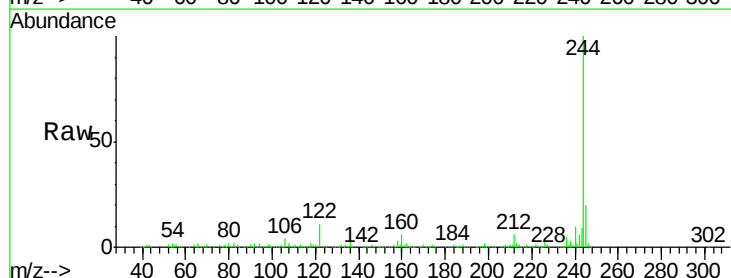
Manual Integrations
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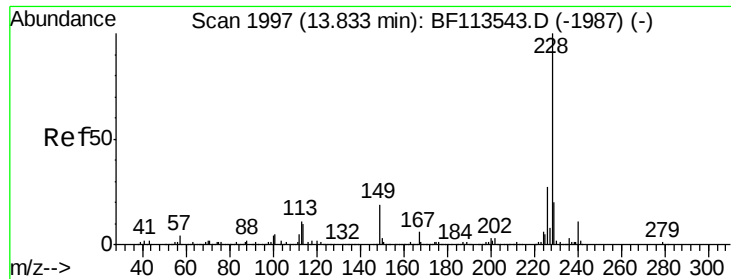
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#79
 Terphenyl-d14
 Concen: 43.991 ng
 RT: 12.76 min Scan# 1815
 Delta R.T. -0.03 min
 Lab File: BF113805.D
 Acq: 16 Apr 2019 20:49

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	367384		
212	6.4		5.5	8.3
122	11.3		8.6	13.0





#81

Benzo(a)anthracene

Concen: 3.770 ng

RT: 13.82 min Scan# 1994

Delta R.T. -0.02 min

Lab File: BF113805.D

Acq: 16 Apr 2019 20:49

Instrument :

BNA_F

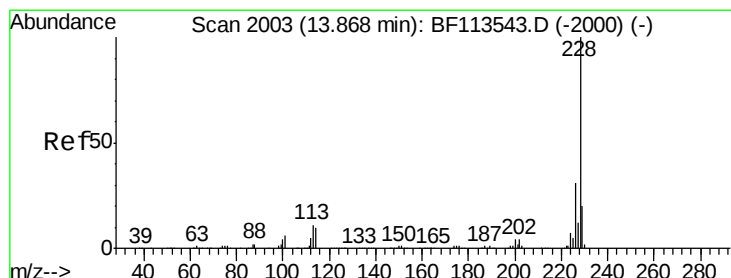
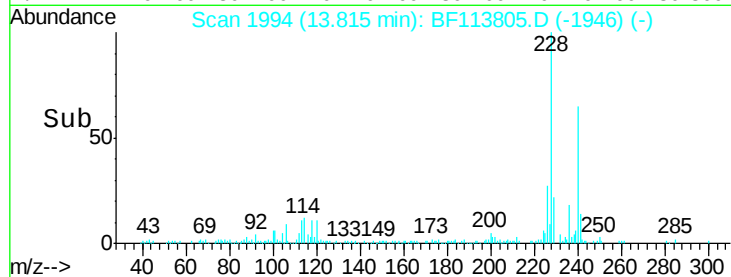
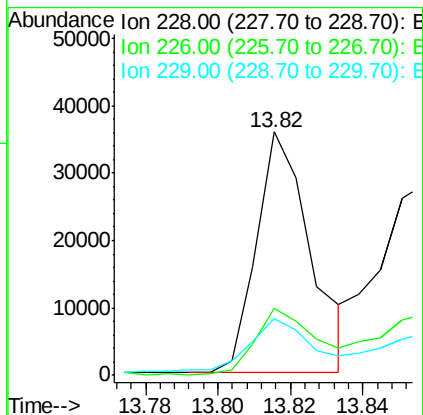
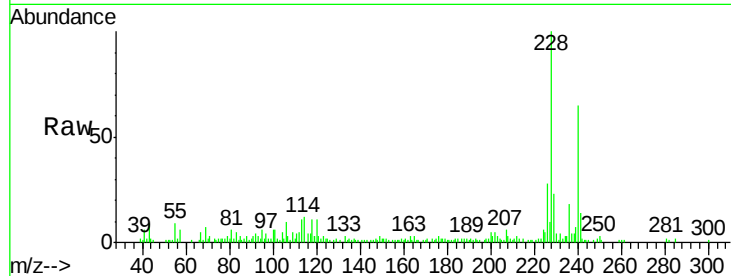
ClientSampleId :

NCC-TOPSOIL-KY

Tgt Ion:	228	Resp:	36976
Ion Ratio	Lower	Upper	
228	100		
226	27.5	21.8	32.8
229	23.4	16.2	24.4

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#83

Chrysene

Concen: 3.799 ng

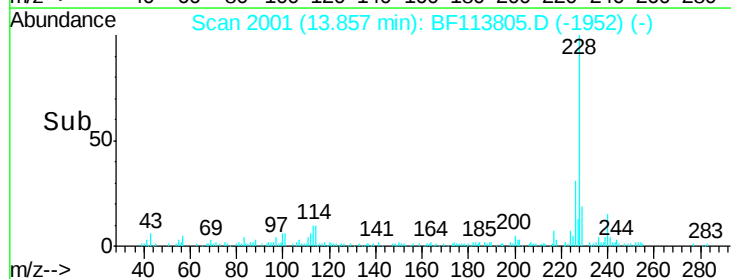
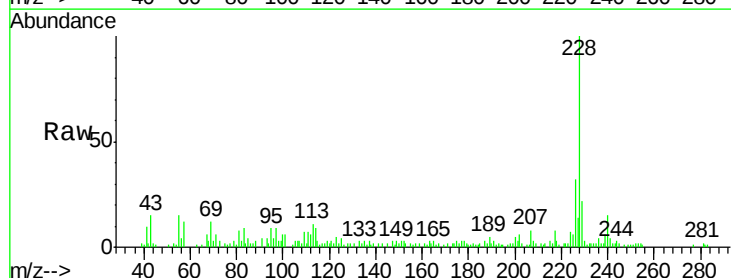
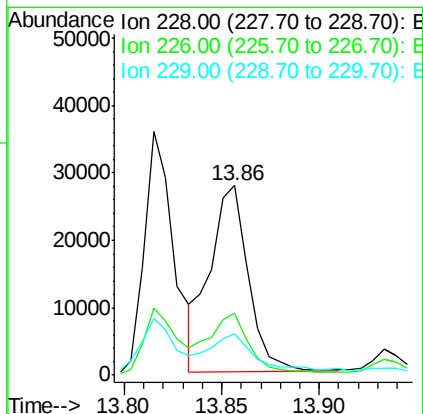
RT: 13.86 min Scan# 2001

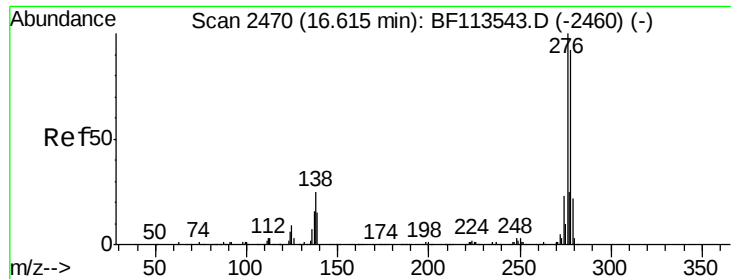
Delta R.T. -0.01 min

Lab File: BF113805.D

Acq: 16 Apr 2019 20:49

Tgt Ion:	228	Resp:	37774
Ion Ratio	Lower	Upper	
228	100		
226	32.3	24.3	36.5
229	21.7	16.3	24.5





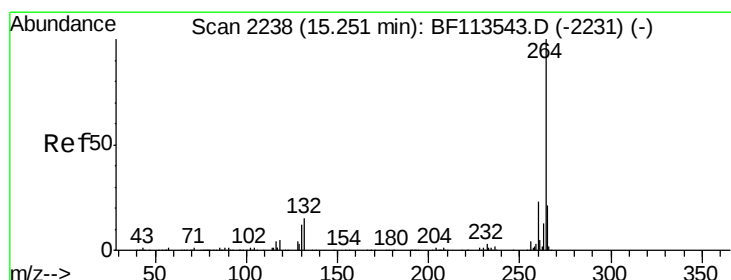
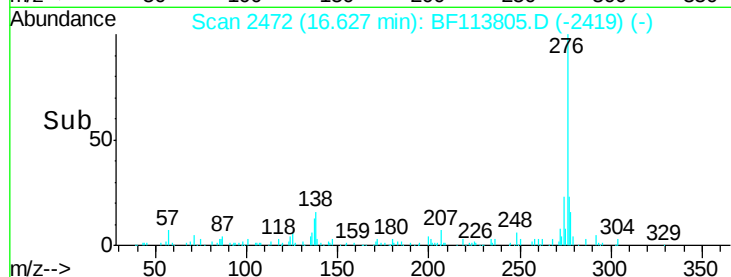
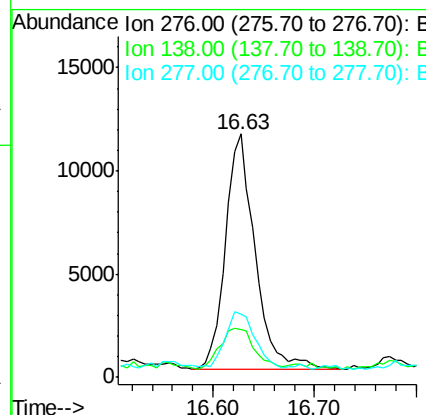
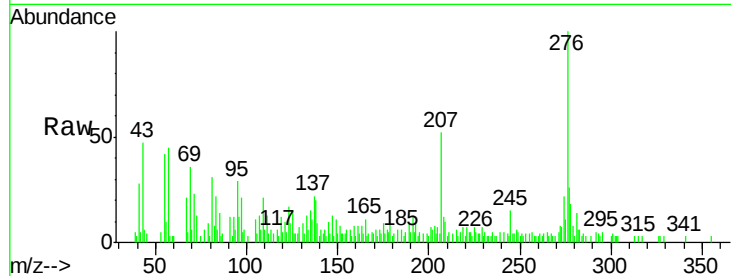
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.510 ng
 RT: 16.63 min Scan# 2472
 Delta R.T. 0.01 min
 Lab File: BF113805.D
 Acq: 16 Apr 2019 20:49

Instrument :
 BNA_F
 ClientSampleId :
 NCC-TOPSOIL-KY

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.5	18.1	27.1
277	23.9	20.2	30.4

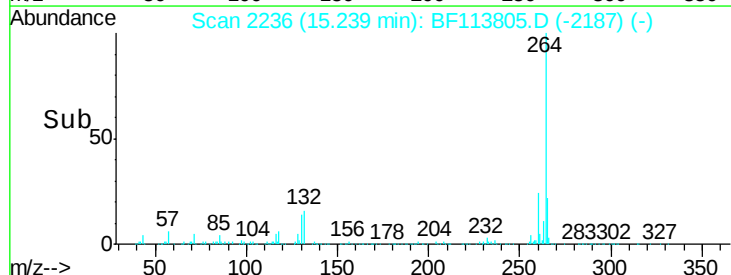
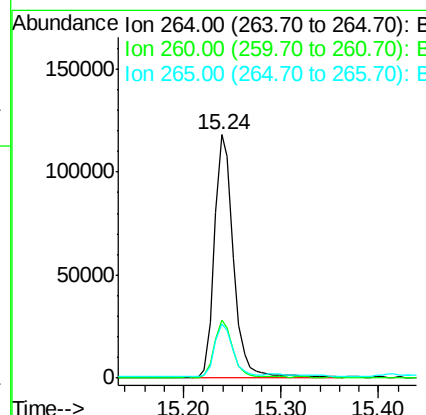
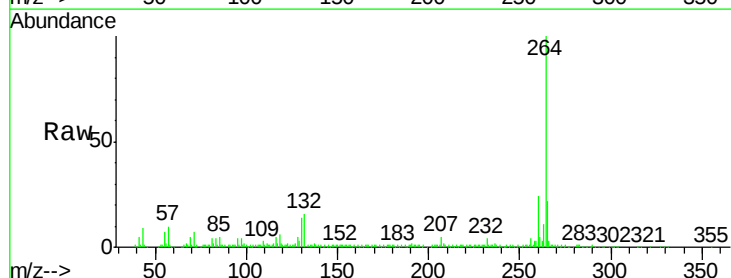
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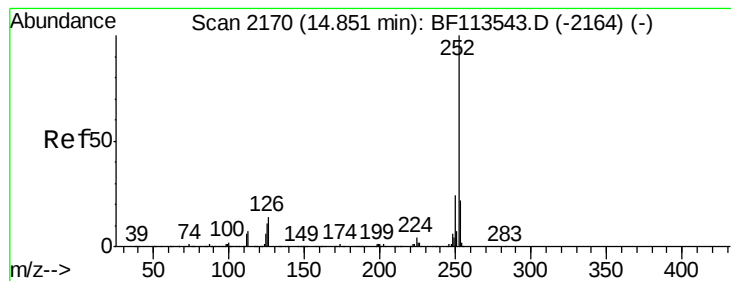
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#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.24 min Scan# 2236
 Delta R.T. -0.01 min
 Lab File: BF113805.D
 Acq: 16 Apr 2019 20:49

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	22.3	17.1	25.7





#88

Benzo(b)fluoranthene

Concen: 6.614 ng m

RT: 14.84 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BF113805.D

Acq: 16 Apr 2019 20:49

Instrument :

BNA_F

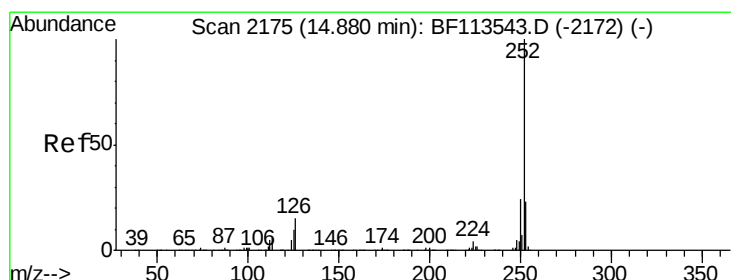
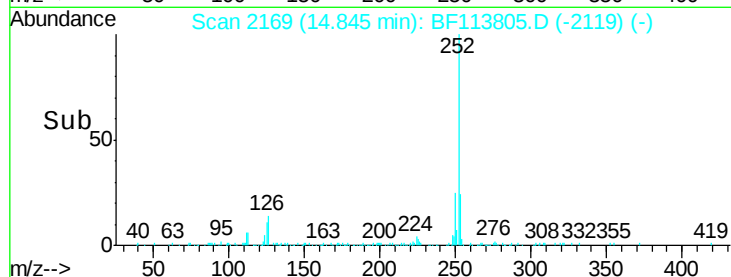
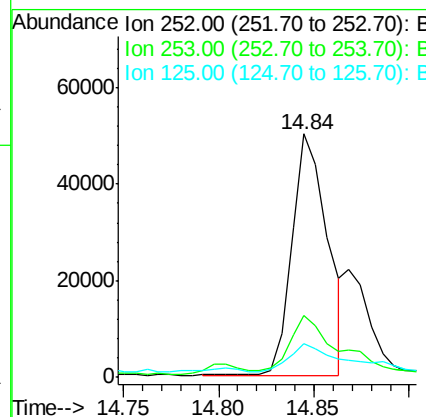
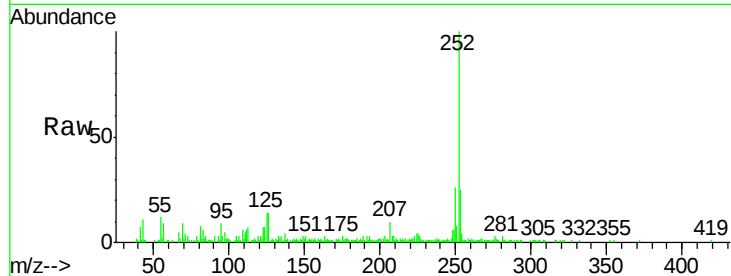
ClientSampleId :

NCC-TOPSOIL-KY

Tgt Ion:	252	Resp:	64485
Ion Ratio	Lower	Upper	
252	100		
253	25.3	18.0	27.0
125	13.8	7.6	11.4#

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#89

Benzo(k)fluoranthene

Concen: 2.429 ng m

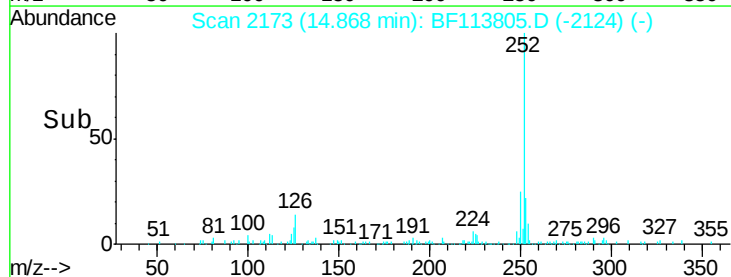
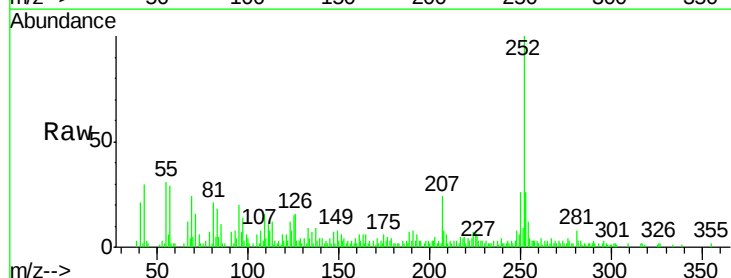
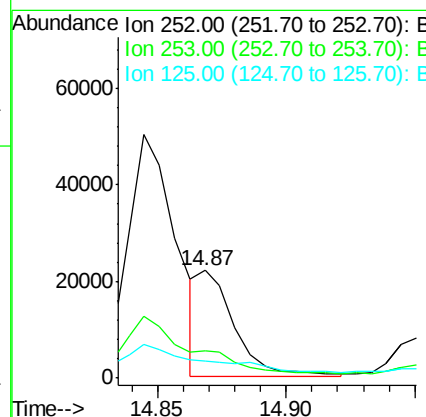
RT: 14.87 min Scan# 2173

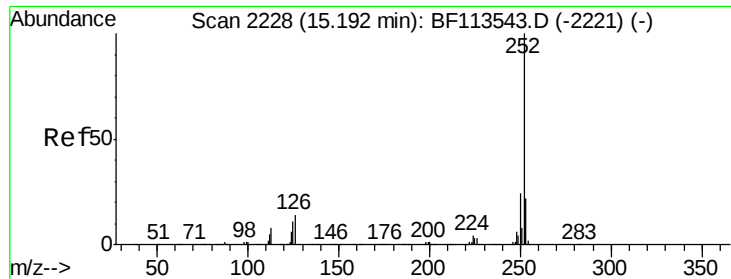
Delta R.T. -0.01 min

Lab File: BF113805.D

Acq: 16 Apr 2019 20:49

Tgt Ion:	252	Resp:	21258
Ion Ratio	Lower	Upper	
252	100		
253	25.6	17.7	26.5
125	15.4	7.3	10.9#





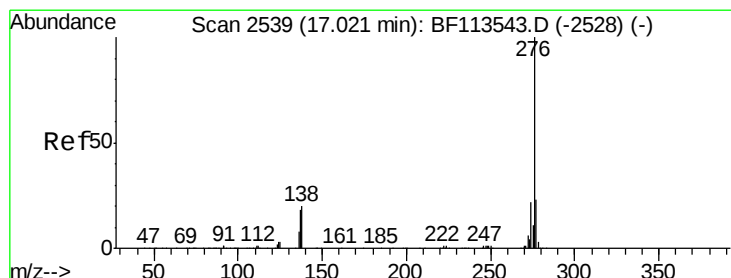
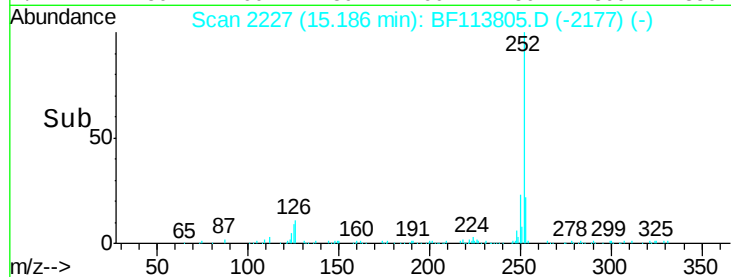
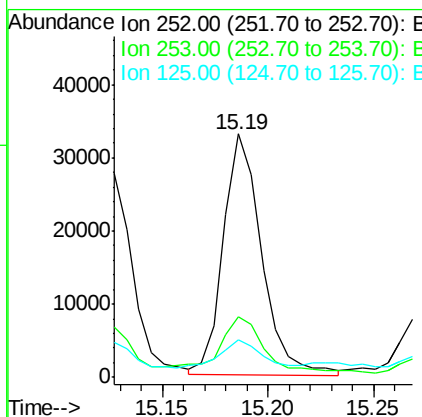
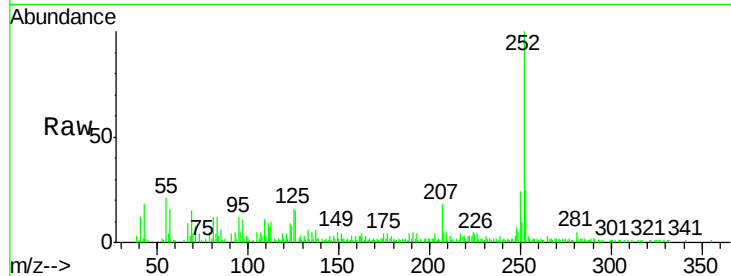
#90
Benzo(a)pyrene
Concen: 4.783 ng
RT: 15.19 min Scan# 2227
Delta R.T. -0.01 min
Lab File: BF113805.D
Acq: 16 Apr 2019 20:49

Instrument :
BNA_F
ClientSampleId :
NCC-TOPSOIL-KY

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.9	26.9
125	15.5	8.8	13.2

Manual Integrations
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#92
Benzo(g,h,i)perylene
Concen: 2.976 ng
RT: 17.04 min Scan# 2542
Delta R.T. 0.02 min
Lab File: BF113805.D
Acq: 16 Apr 2019 20:49

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.7	18.8	28.2
138	24.6	15.6	23.4

