

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061323\
 Data File : BF133737.D
 Acq On : 13 Jun 2023 18:29
 Operator : CG\JU
 Sample : 03114-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MARION-SOIL-0609

Quant Time: Jun 13 19:26:42 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 13 11:26:55 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

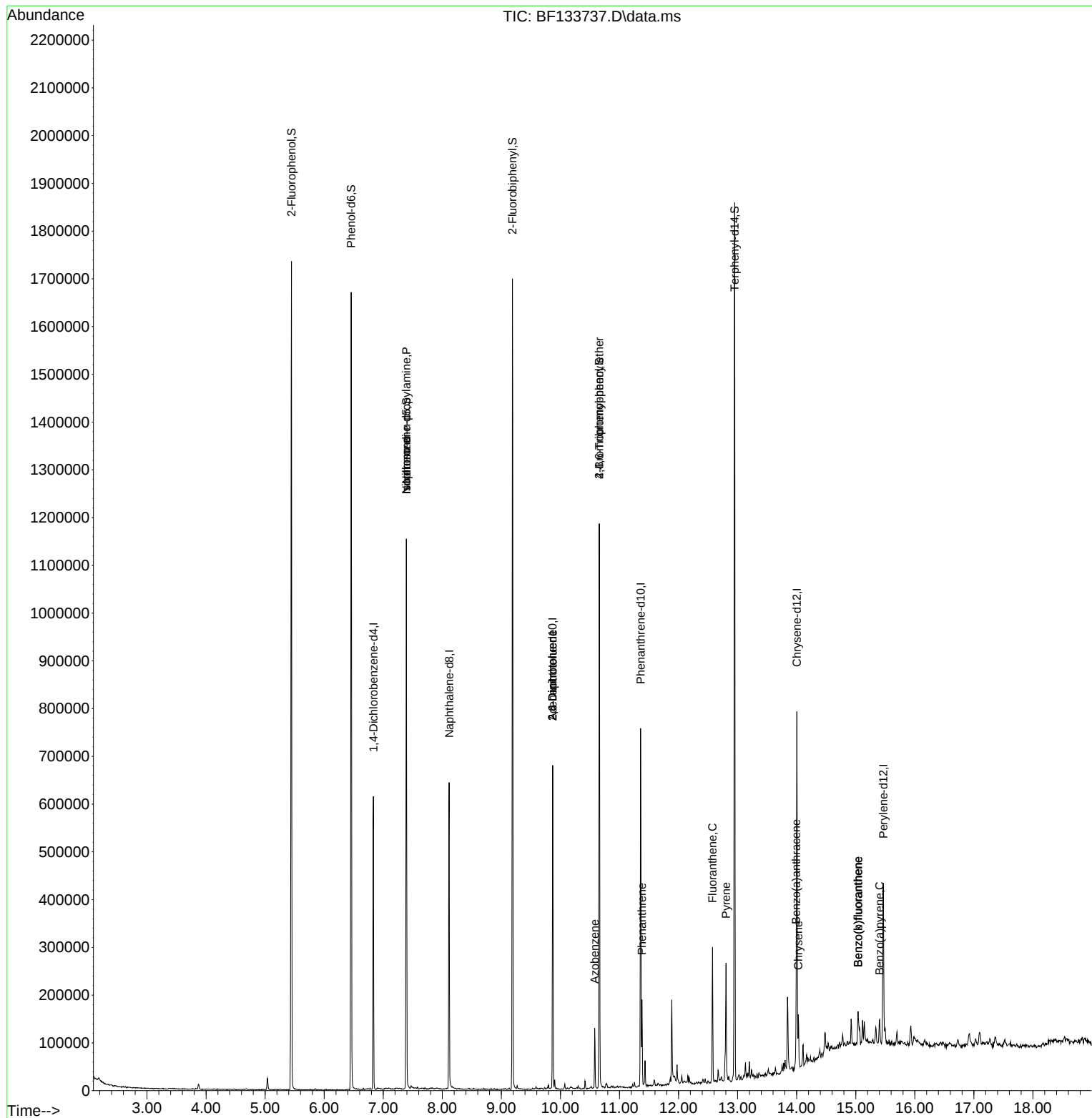
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	86341	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	271826	20.000	ng	0.00
39) Acenaphthene-d10	9.869	164	118666	20.000	ng	-0.01
64) Phenanthrene-d10	11.357	188	255507	20.000	ng	-0.01
76) Chrysene-d12	14.004	240	216444	20.000	ng	-0.01
86) Perylene-d12	15.468	264	154164	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	427204	86.137	ng	0.00
7) Phenol-d6	6.457	99	463612	71.815	ng	-0.01
23) Nitrobenzene-d5	7.392	82	298789	59.869	ng	-0.01
42) 2,4,6-Tribromophenol	10.657	330	123385	82.142	ng	-0.01
45) 2-Fluorobiphenyl	9.186	172	496714	59.502	ng	-0.01
79) Terphenyl-d14	12.951	244	646334	46.206	ng	0.00
Target Compounds						
					Qvalue	
19) n-Nitroso-di-n-propyla...	7.392	70	41029	9.989	ng	# 80
25) Isophorone	7.392	82	298786	32.610	ng	# 65
51) 2,6-Dinitrotoluene	9.869	165	15293	8.365	ng	# 27
57) 2,4-Dinitrotoluene	9.869	165	15293	6.577	ng	# 18
63) Azobenzene	10.580	77	20184	2.365	ng	# 1
67) 4-Bromophenyl-phenylether	10.657	248	8297	2.909	ng	# 1
71) Phenanthrene	11.380	178	58936	4.546	ng	97
75) Fluoranthene	12.574	202	102936	7.478	ng	99
78) Pyrene	12.804	202	94919	4.708	ng	99
81) Benzo(a)anthracene	13.992	228	45167	3.017	ng	97
83) Chrysene	14.027	228	38793	2.740	ng	98
88) Benzo(b)fluoranthene	15.039	252	49658	5.303	ng	99
89) Benzo(k)fluoranthene	15.039	252	49658	5.444	ng	99
90) Benzo(a)pyrene	15.404	252	25035	2.880	ng	97

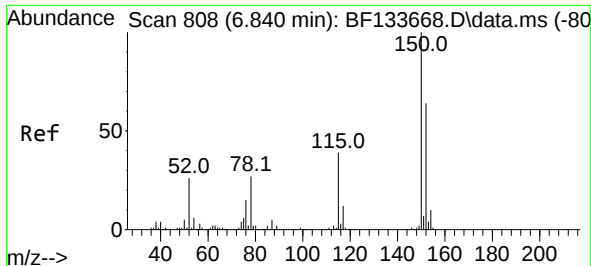
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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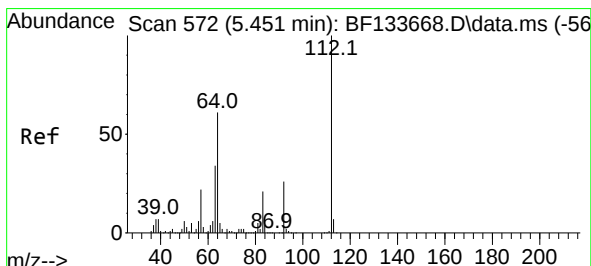
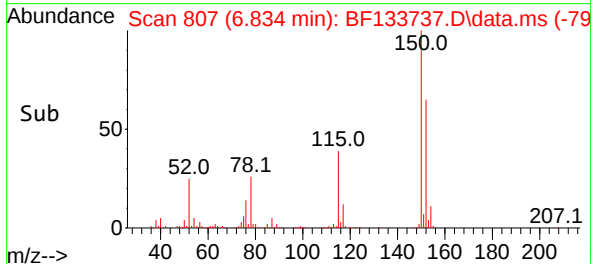
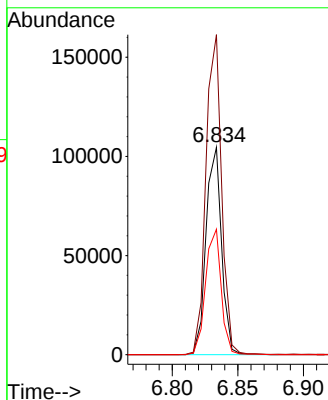
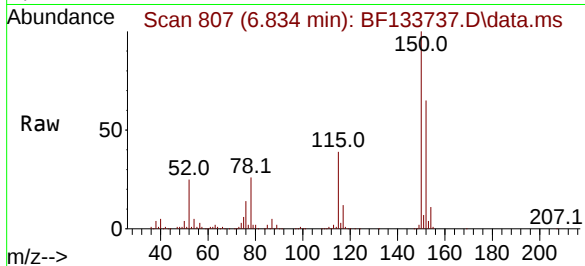




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 80
Delta R.T. -0.000 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

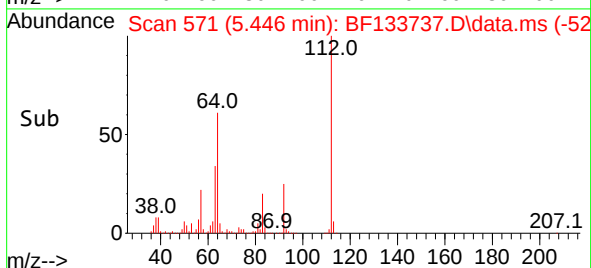
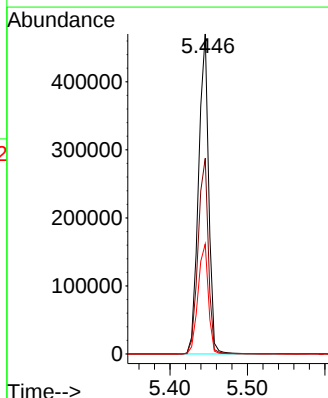
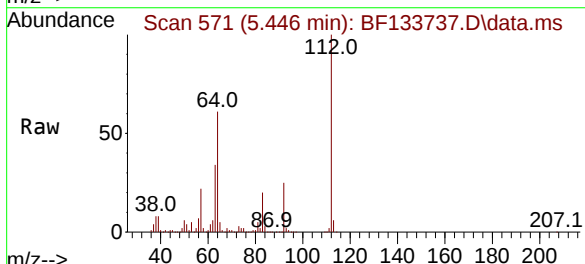
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609

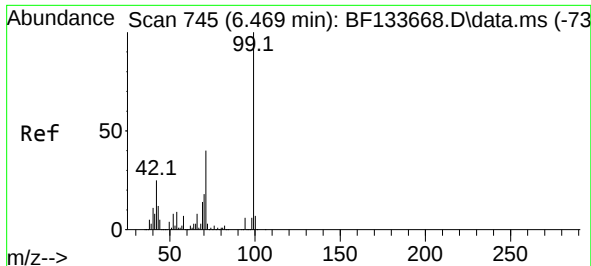
Tgt Ion:152 Resp: 86341
Ion Ratio Lower Upper
152 100
150 154.3 124.3 186.5
115 60.5 48.5 72.7



#5
2-Fluorophenol
Concen: 86.137 ng
RT: 5.446 min Scan# 571
Delta R.T. 0.000 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

Tgt Ion:112 Resp: 427204
Ion Ratio Lower Upper
112 100
64 61.1 49.0 73.4
63 34.4 26.8 40.2

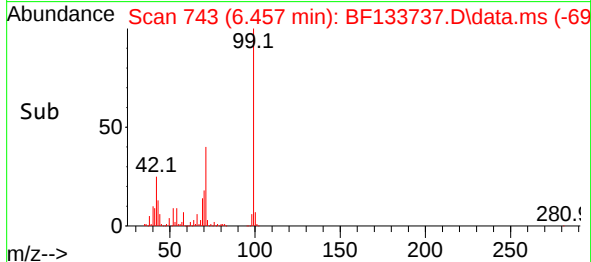
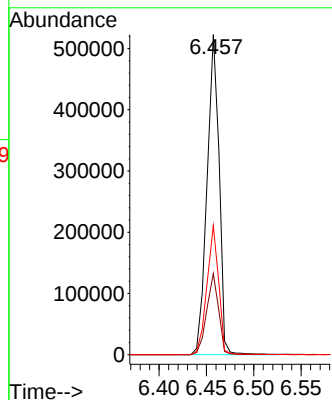
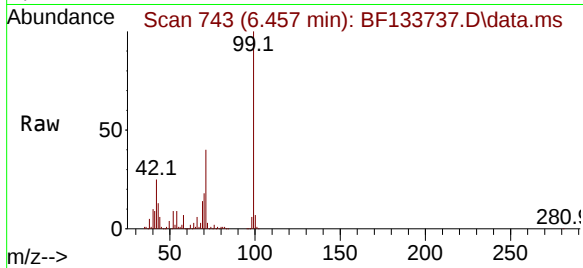




#7
Phenol-d6
Concen: 71.815 ng
RT: 6.457 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

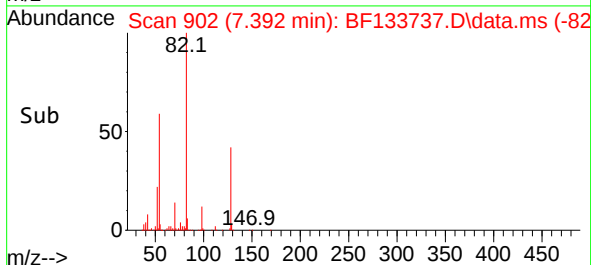
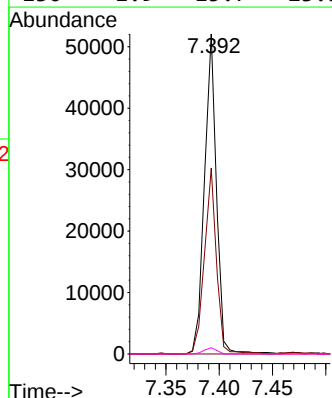
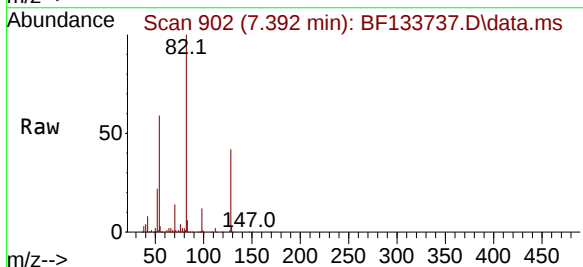
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609

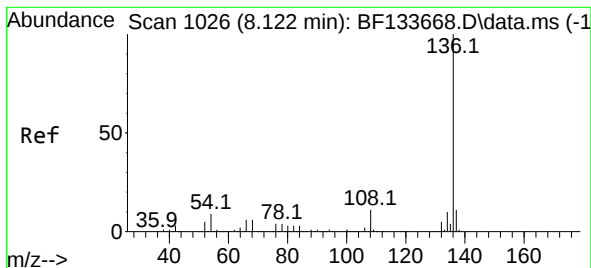
Tgt Ion: 99 Resp: 463612
Ion Ratio Lower Upper
99 100
42 25.3 19.9 29.9
71 40.3 32.2 48.4



#19
n-Nitroso-di-n-propylamine
Concen: 9.989 ng
RT: 7.392 min Scan# 902
Delta R.T. 0.141 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

Tgt Ion: 70 Resp: 41029
Ion Ratio Lower Upper
70 100
42 58.0 55.8 83.8
101 0.0 8.1 12.1#
130 1.9 15.7 23.5#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.116 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133737.D

Acq: 13 Jun 2023 18:29

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609

Tgt Ion:136 Resp: 271826

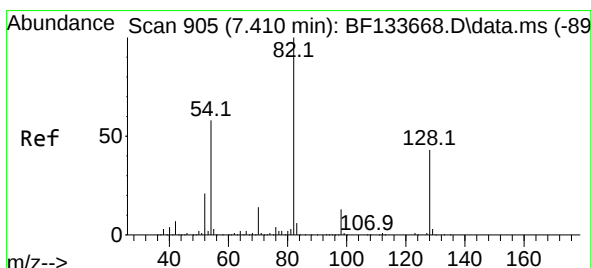
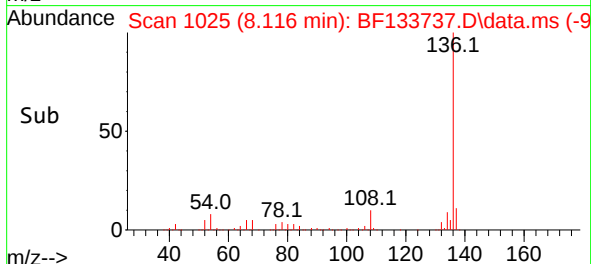
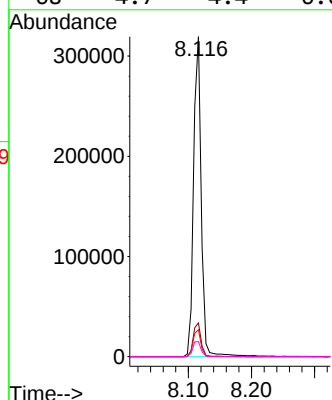
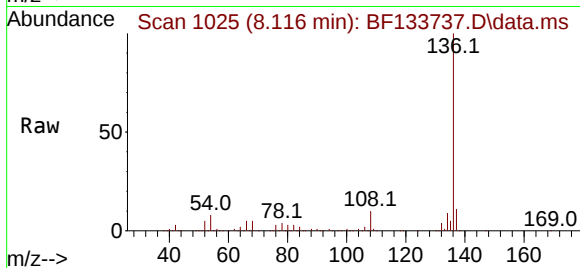
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 8.4 7.4 11.0

68 4.7 4.4 6.6



#23

Nitrobenzene-d5

Concen: 59.869 ng

RT: 7.392 min Scan# 902

Delta R.T. -0.012 min

Lab File: BF133737.D

Acq: 13 Jun 2023 18:29

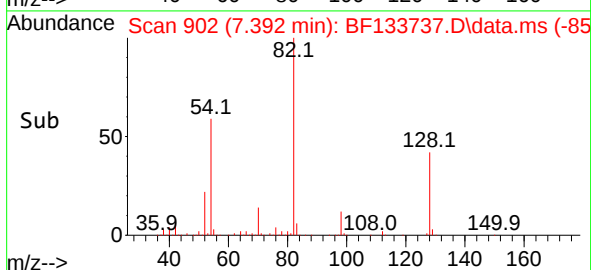
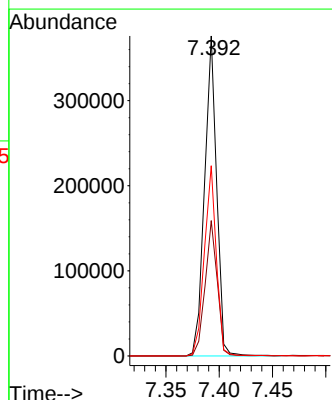
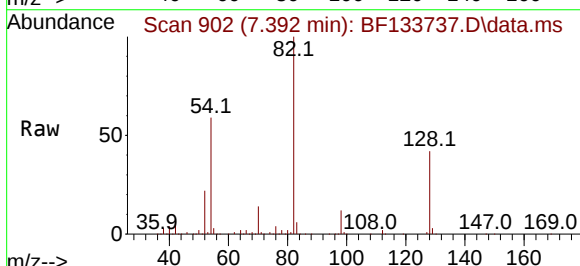
Tgt Ion: 82 Resp: 298789

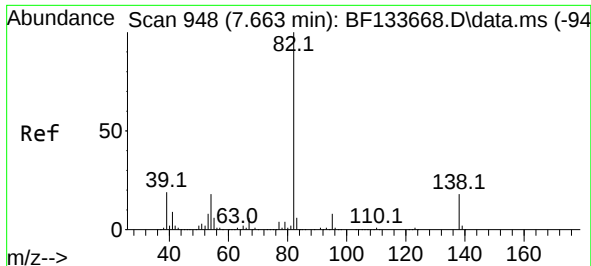
Ion Ratio Lower Upper

82 100

128 42.3 34.2 51.2

54 59.5 46.5 69.7

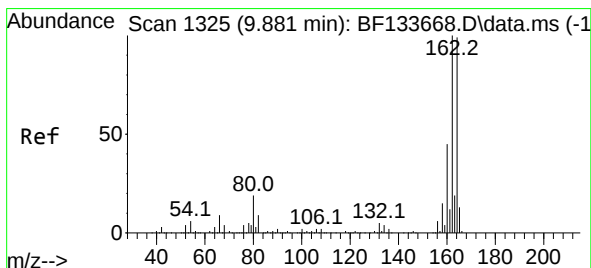
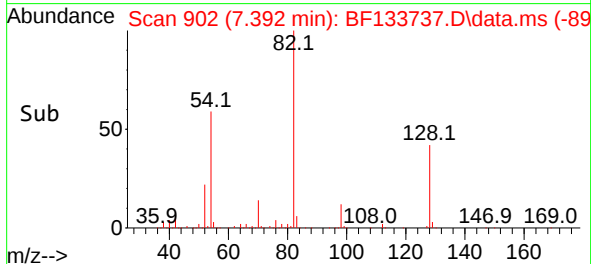
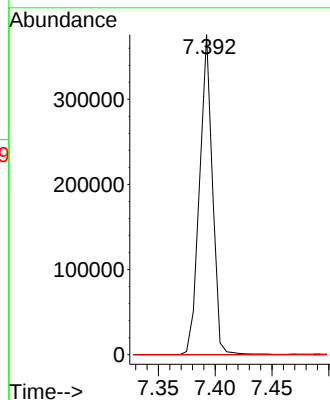
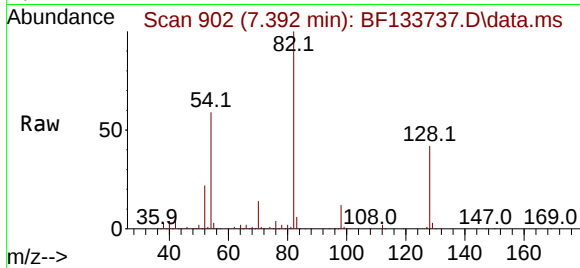




#25
Isophorone
Concen: 32.610 ng
RT: 7.392 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

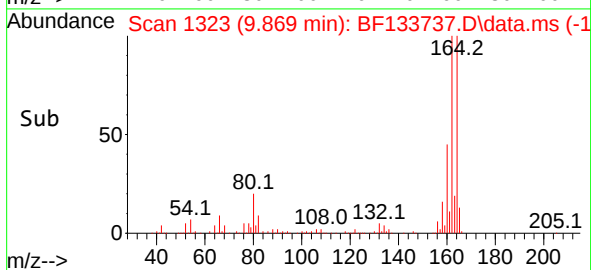
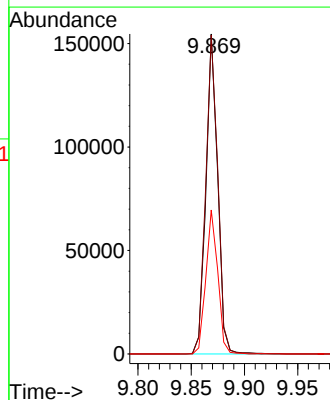
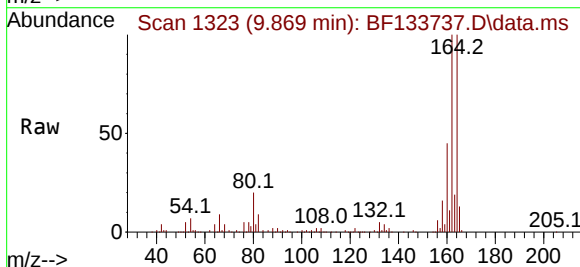
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609

Tgt Ion: 82 Resp: 298786
Ion Ratio Lower Upper
82 100
95 0.0 6.0 9.0#
138 0.0 14.2 21.2#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.012 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

Tgt Ion: 164 Resp: 118666
Ion Ratio Lower Upper
164 100
162 99.7 80.8 121.2
160 45.0 36.7 55.1





#42

2,4,6-Tribromophenol

Concen: 82.142 ng

RT: 10.657 min Scan# 1457

Delta R.T. -0.012 min

Lab File: BF133737.D

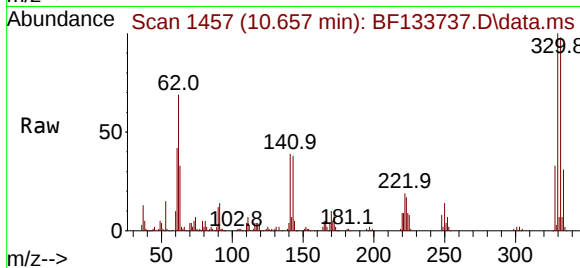
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Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609



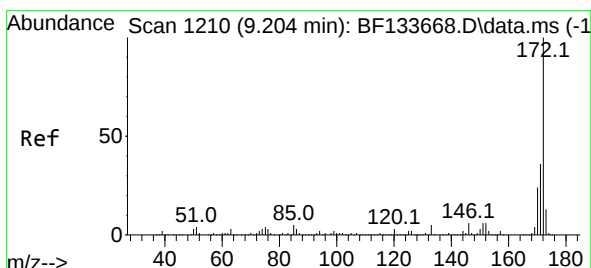
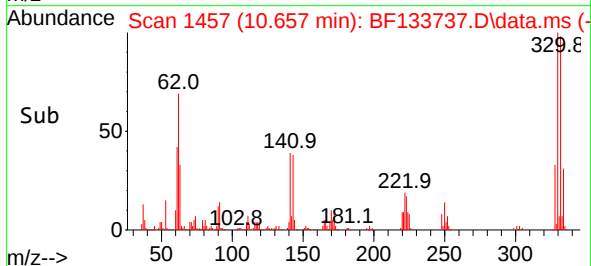
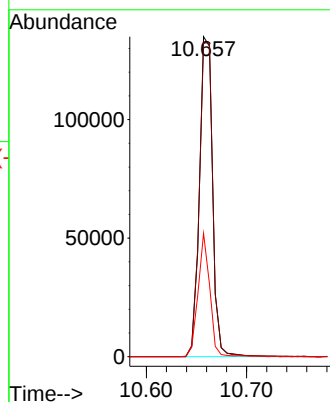
Tgt Ion:330 Resp: 123385

Ion Ratio Lower Upper

330 100

332 100.3 77.2 115.8

141 34.3 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 59.502 ng

RT: 9.186 min Scan# 1207

Delta R.T. -0.012 min

Lab File: BF133737.D

Acq: 13 Jun 2023 18:29

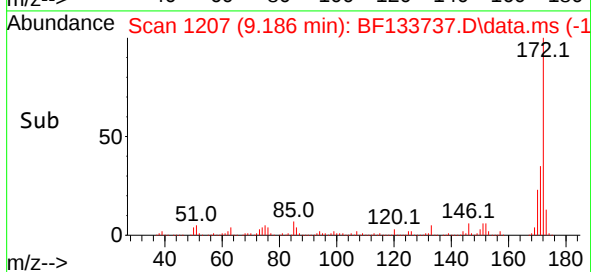
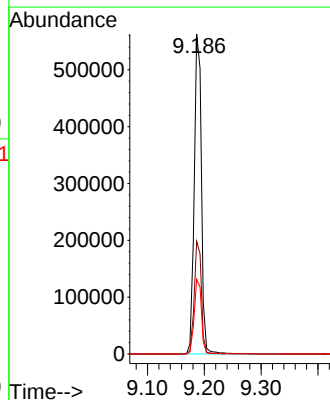
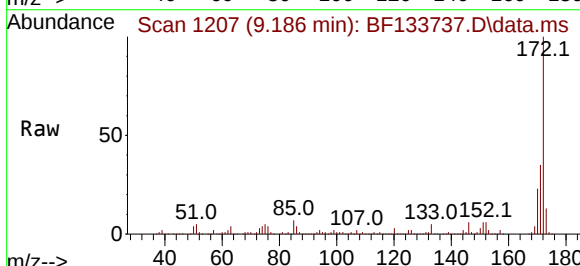
Tgt Ion:172 Resp: 496714

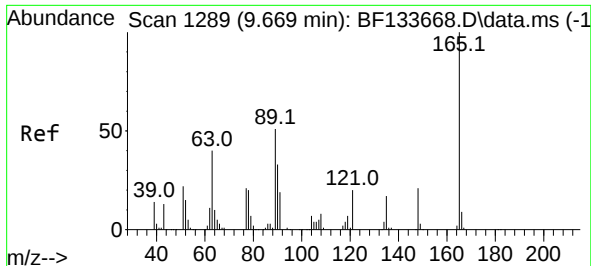
Ion Ratio Lower Upper

172 100

171 35.2 28.6 43.0

170 23.4 19.1 28.7

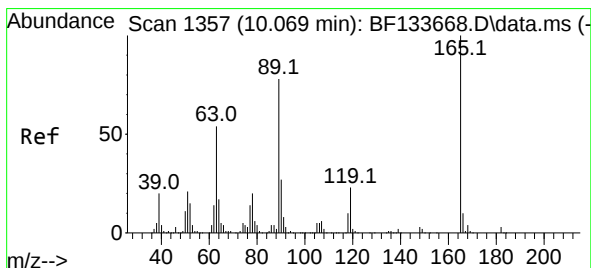
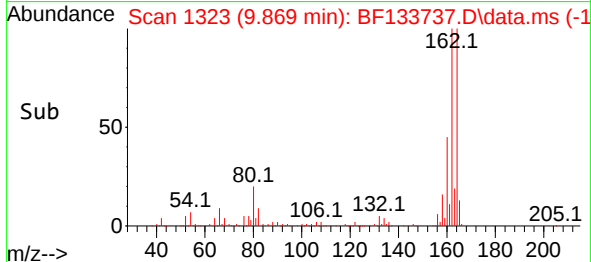
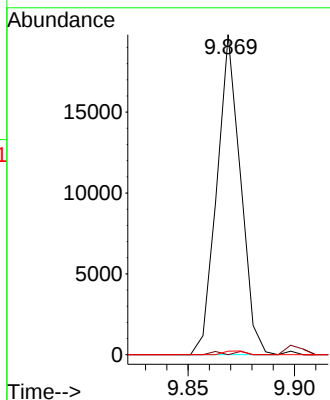
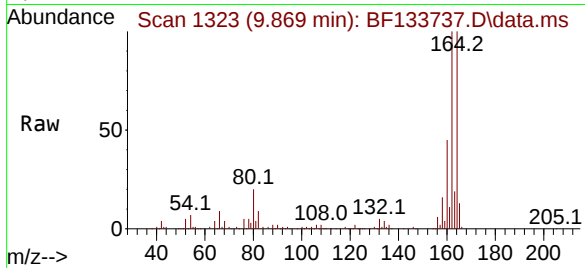




#51
2,6-Dinitrotoluene
Concen: 8.365 ng
RT: 9.869 min Scan# 11
Delta R.T. 0.206 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

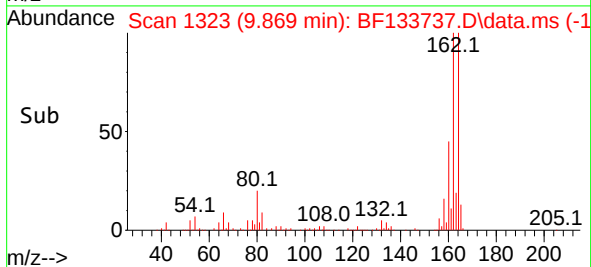
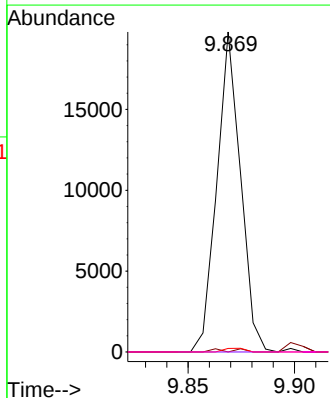
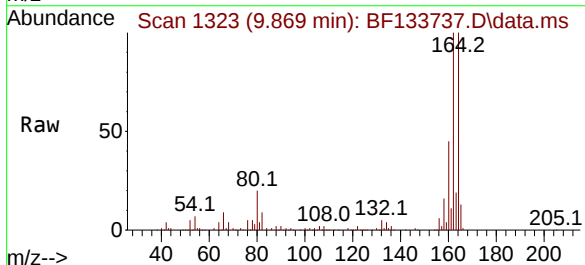
Instrument :
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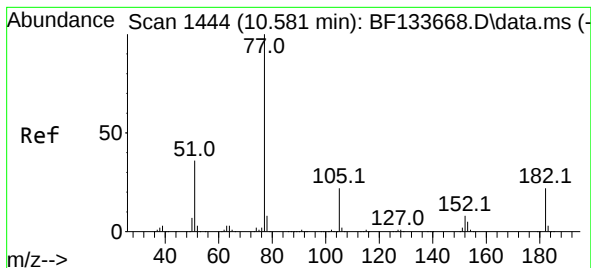
Tgt Ion:165 Resp: 15293
Ion Ratio Lower Upper
165 100
63 0.0 42.1 63.1#
89 1.1 40.9 61.3#



#57
2,4-Dinitrotoluene
Concen: 6.577 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.200 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

Tgt Ion:165 Resp: 15293
Ion Ratio Lower Upper
165 100
63 0.0 43.0 64.6#
89 1.1 62.6 93.8#
182 0.0 2.2 3.2#





#63

Azobenzene

Concen: 2.365 ng

RT: 10.580 min Scan# 1444

Delta R.T. 0.000 min

Lab File: BF133737.D

Acq: 13 Jun 2023 18:29

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609

Tgt Ion: 77 Resp: 20184

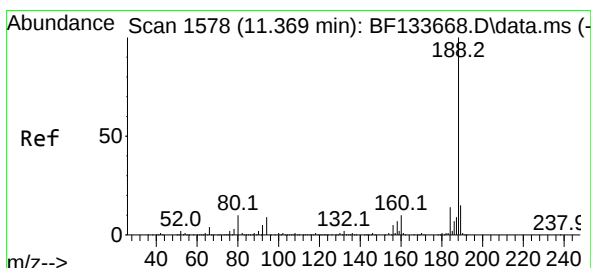
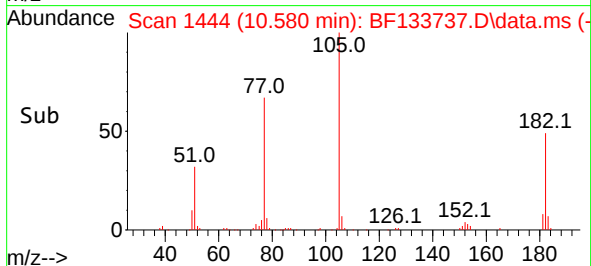
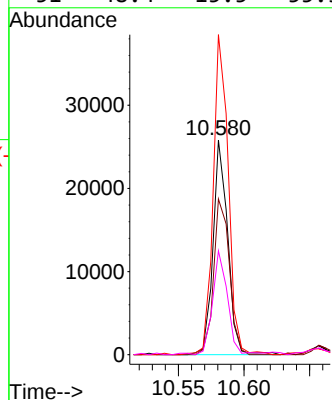
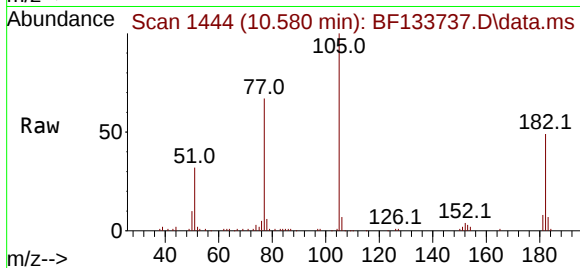
Ion Ratio Lower Upper

77 100

182 72.6 1.6 41.6#

105 149.2 1.6 41.6#

51 48.4 15.5 55.5



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.357 min Scan# 1576

Delta R.T. -0.012 min

Lab File: BF133737.D

Acq: 13 Jun 2023 18:29

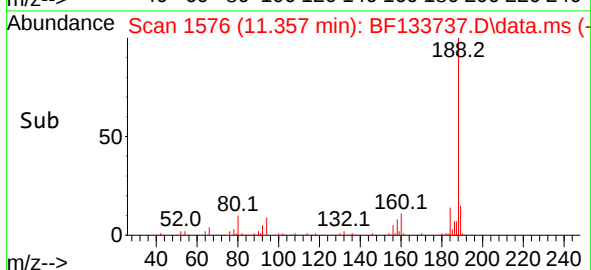
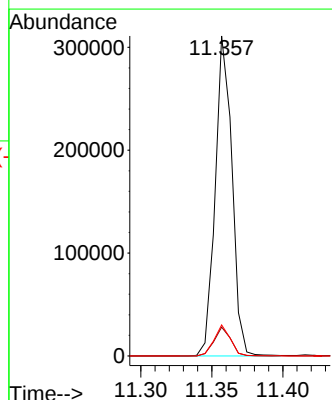
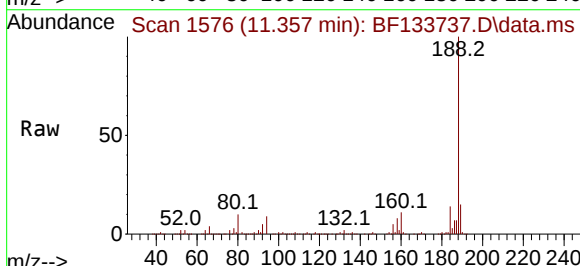
Tgt Ion: 188 Resp: 255507

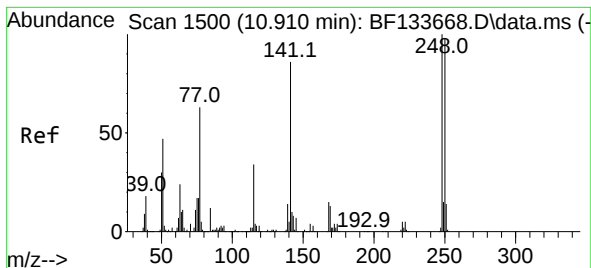
Ion Ratio Lower Upper

188 100

94 9.0 6.8 10.2

80 9.7 7.8 11.6

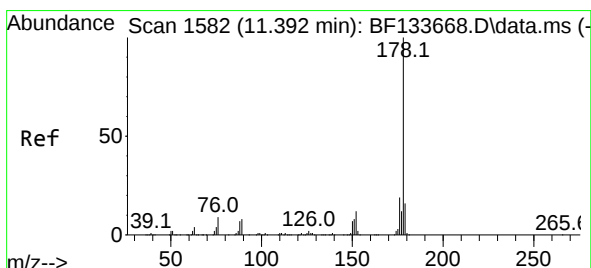
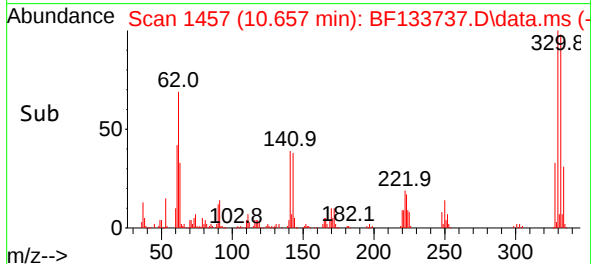
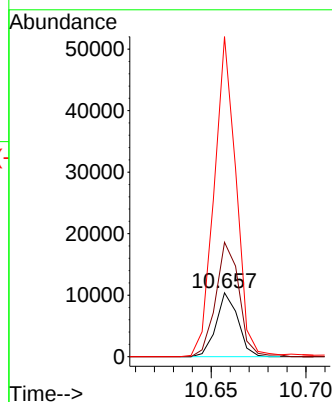
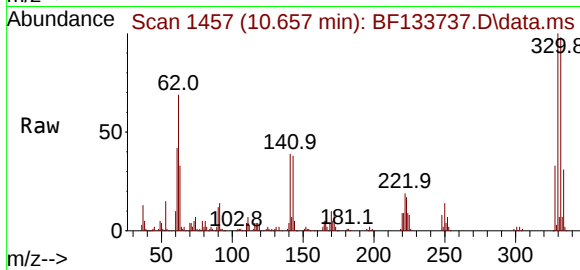




#67
4-Bromophenyl-phenylether
Concen: 2.909 ng
RT: 10.657 min Scan# 1457
Delta R.T. -0.253 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

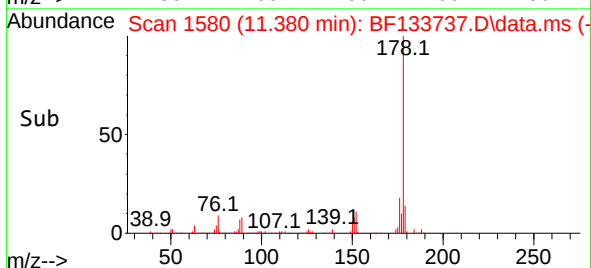
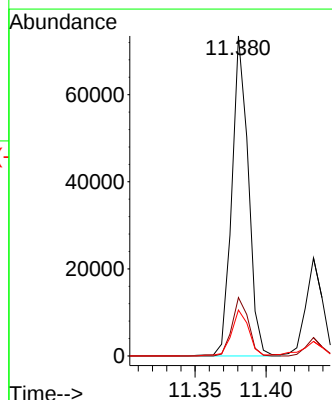
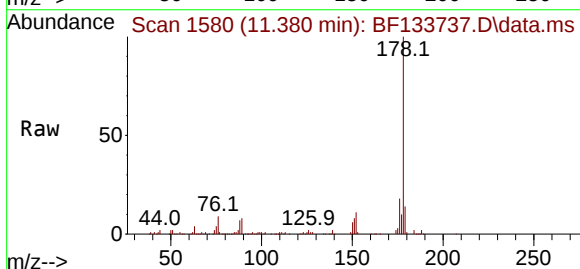
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609

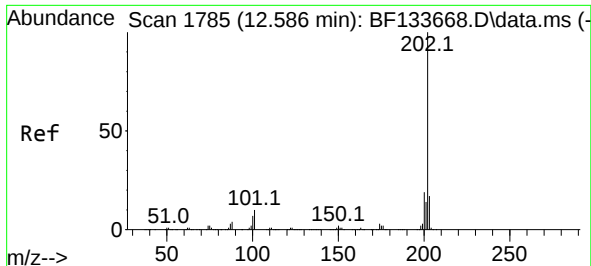
Tgt Ion:248 Resp: 8297
Ion Ratio Lower Upper
248 100
250 179.4 78.3 117.5#
141 501.5 69.0 103.6#



#71
Phenanthrene
Concen: 4.546 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

Tgt Ion:178 Resp: 58936
Ion Ratio Lower Upper
178 100
176 18.2 15.6 23.4
179 14.4 12.4 18.6

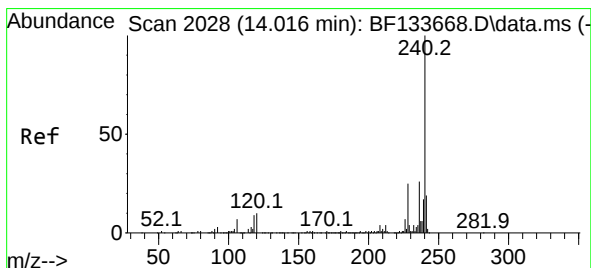
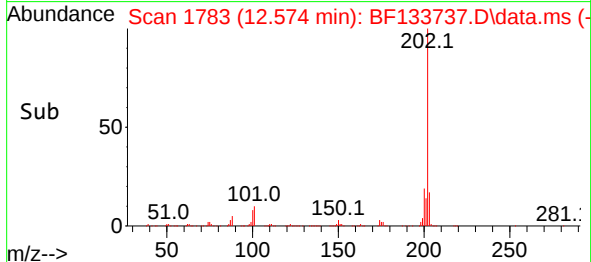
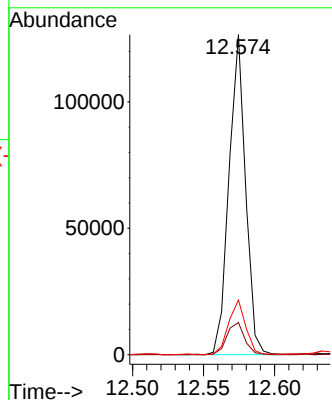
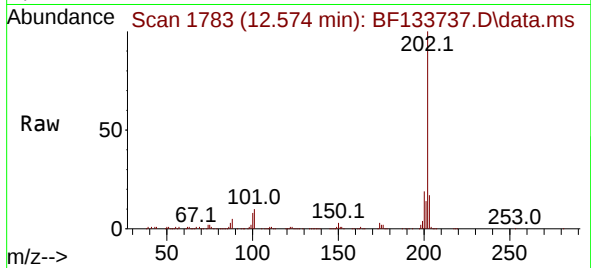




#75
Fluoranthene
Concen: 7.478 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

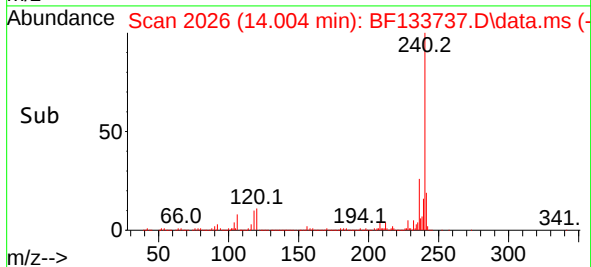
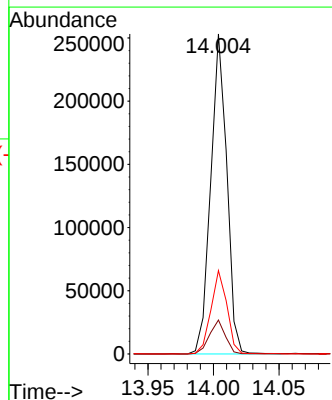
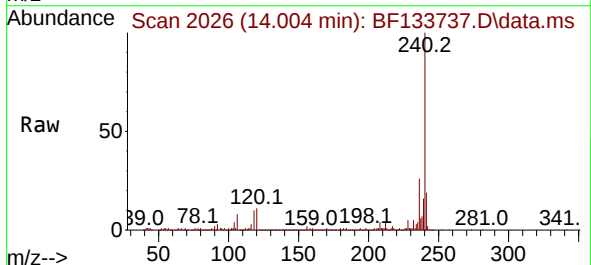
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609

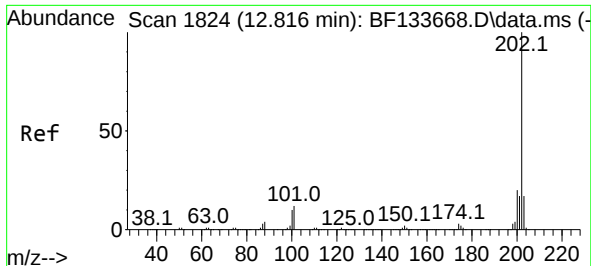
Tgt Ion:202 Resp: 102936
Ion Ratio Lower Upper
202 100
101 10.1 0.0 29.6
203 17.1 0.0 37.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.012 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

Tgt Ion:240 Resp: 216444
Ion Ratio Lower Upper
240 100
120 10.6 8.1 12.1
236 26.1 20.5 30.7

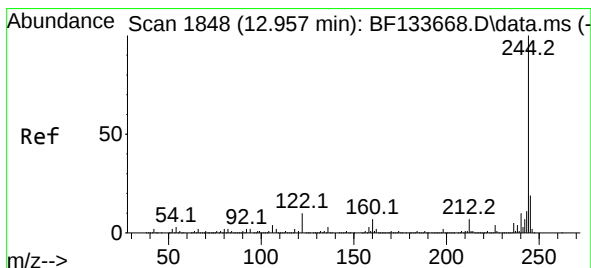
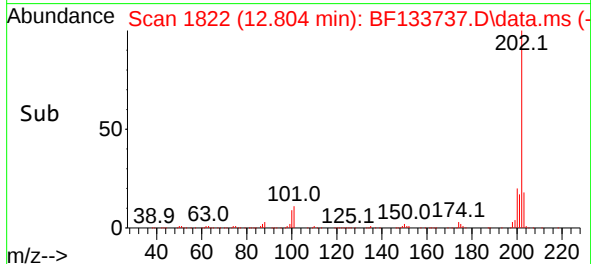
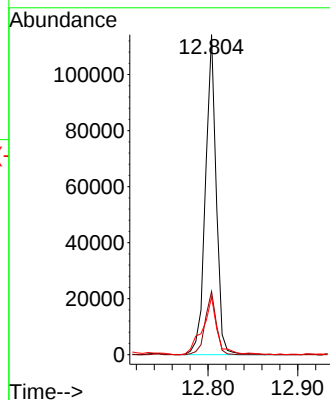
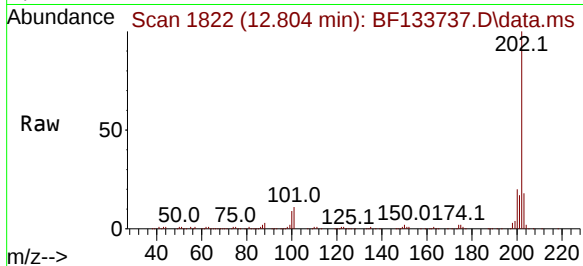




#78
Pyrene
Concen: 4.708 ng
RT: 12.804 min Scan# 1822
Delta R.T. -0.012 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

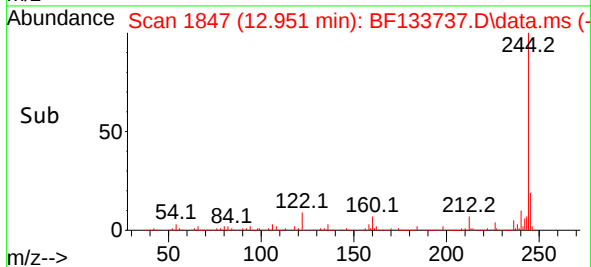
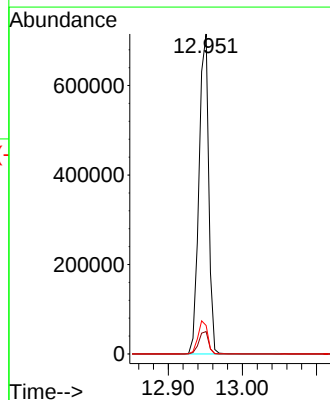
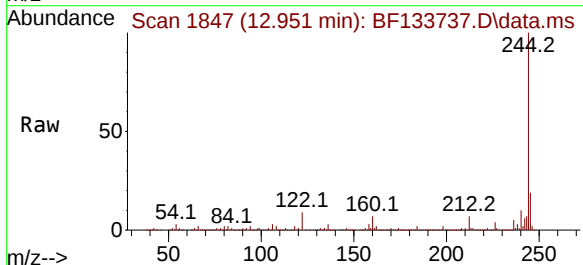
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609

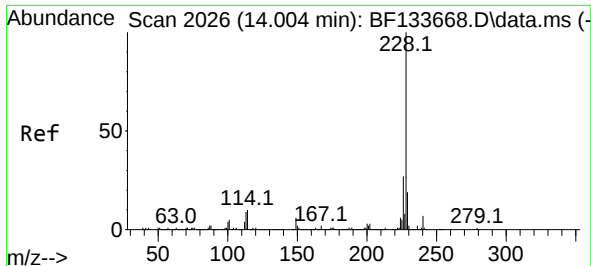
Tgt Ion:202 Resp: 94919
Ion Ratio Lower Upper
202 100
200 19.7 16.2 24.2
203 18.0 13.9 20.9



#79
Terphenyl-d14
Concen: 46.206 ng
RT: 12.951 min Scan# 1847
Delta R.T. -0.006 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

Tgt Ion:244 Resp: 646334
Ion Ratio Lower Upper
244 100
212 7.0 5.4 8.2
122 8.9 8.1 12.1

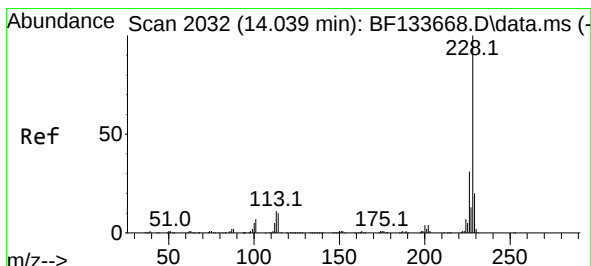
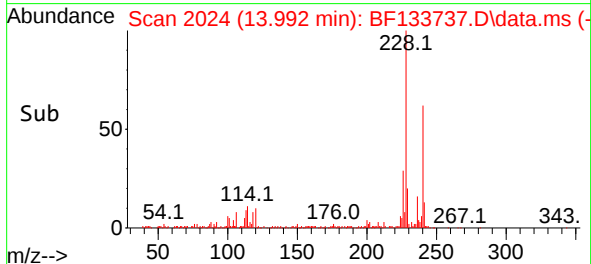
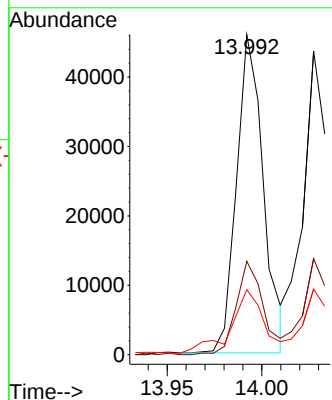
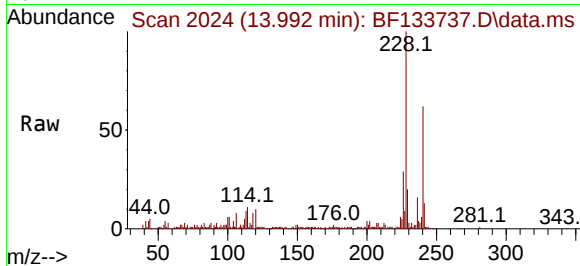




#81
Benzo(a)anthracene
Concen: 3.017 ng
RT: 13.992 min Scan# 2026
Delta R.T. -0.012 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

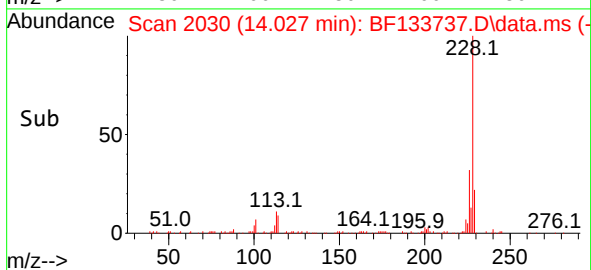
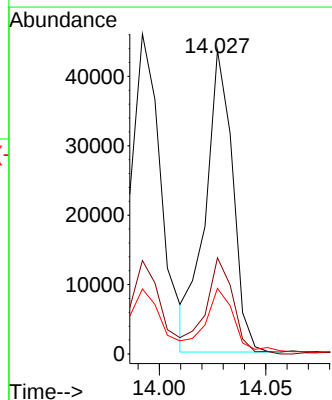
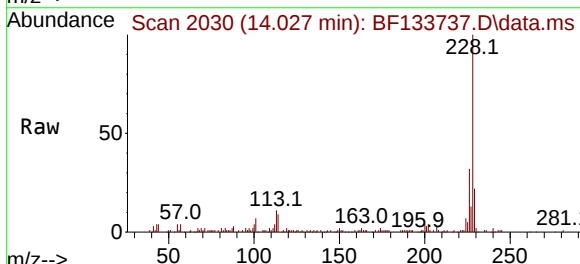
Instrument :
BNA_F
ClientSampleId :
MARION-SOIL-0609

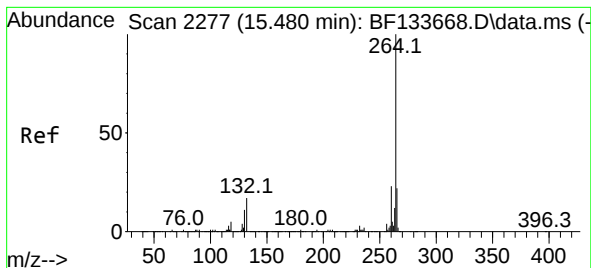
Tgt Ion:228 Resp: 45167
Ion Ratio Lower Upper
228 100
226 29.2 21.7 32.5
229 20.3 15.4 23.2



#83
Chrysene
Concen: 2.740 ng
RT: 14.027 min Scan# 2030
Delta R.T. -0.018 min
Lab File: BF133737.D
Acq: 13 Jun 2023 18:29

Tgt Ion:228 Resp: 38793
Ion Ratio Lower Upper
228 100
226 31.7 25.0 37.6
229 21.6 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF133737.D

Acq: 13 Jun 2023 18:29

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609

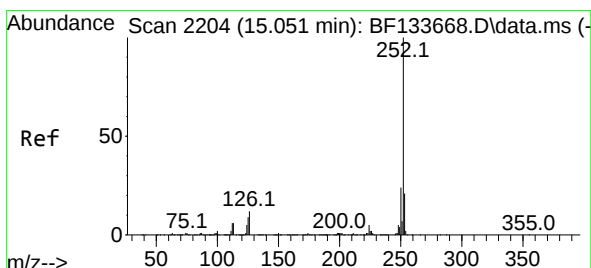
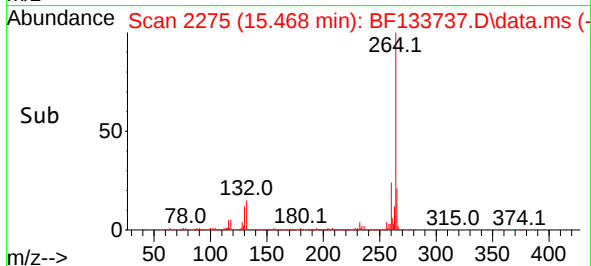
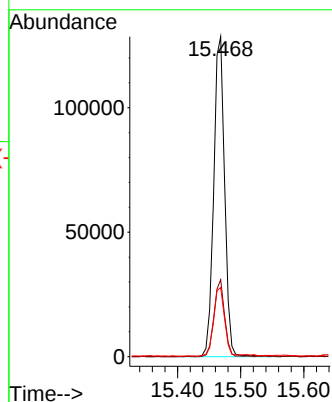
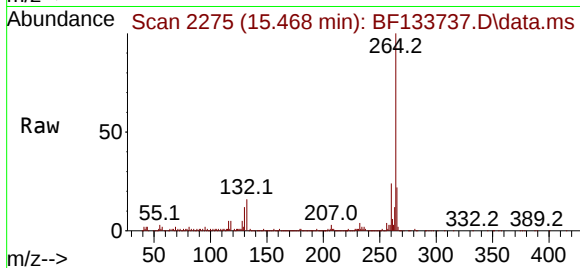
Tgt Ion:264 Resp: 154164

Ion Ratio Lower Upper

264 100

260 24.1 18.2 27.2

265 21.6 17.8 26.6



#88

Benzo(b)fluoranthene

Concen: 5.303 ng

RT: 15.039 min Scan# 2202

Delta R.T. -0.018 min

Lab File: BF133737.D

Acq: 13 Jun 2023 18:29

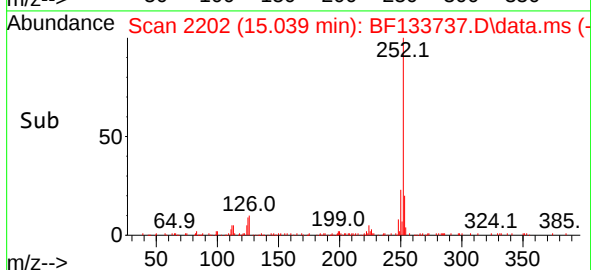
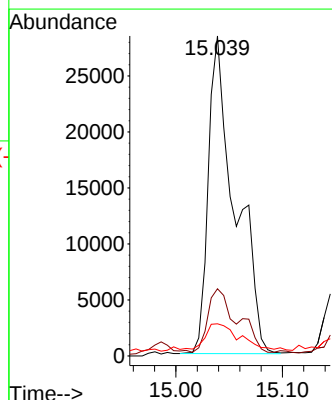
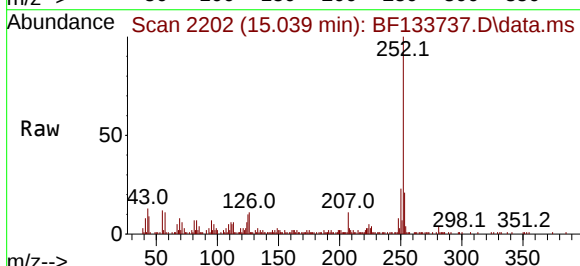
Tgt Ion:252 Resp: 49658

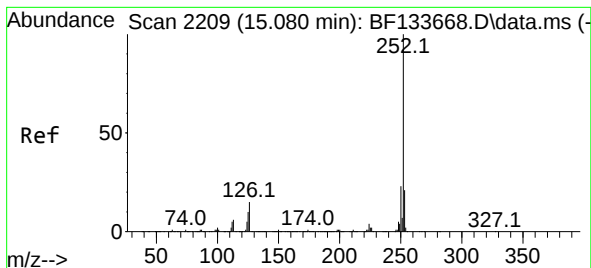
Ion Ratio Lower Upper

252 100

253 21.0 17.0 25.6

125 10.0 7.3 10.9





#89

Benzo(k)fluoranthene

Concen: 5.444 ng

RT: 15.039 min Scan# 21

Delta R.T. -0.047 min

Lab File: BF133737.D

Acq: 13 Jun 2023 18:29

Instrument :

BNA_F

ClientSampleId :

MARION-SOIL-0609

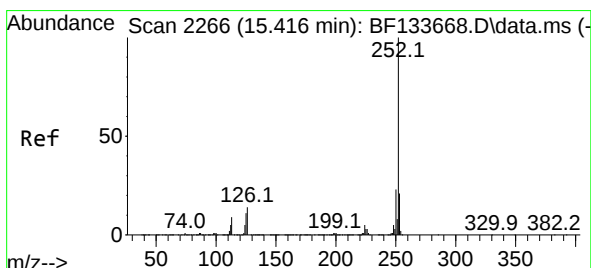
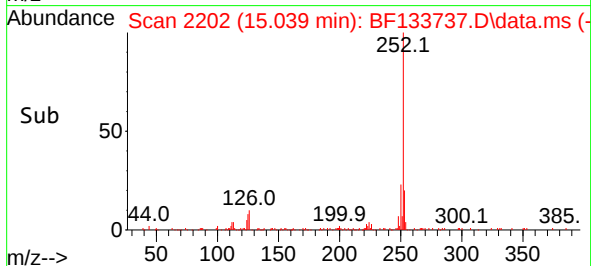
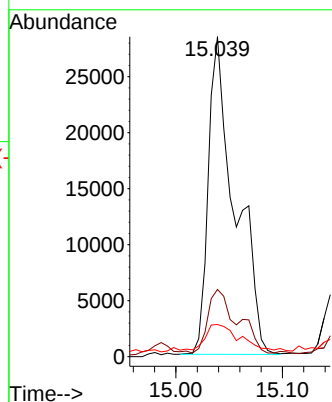
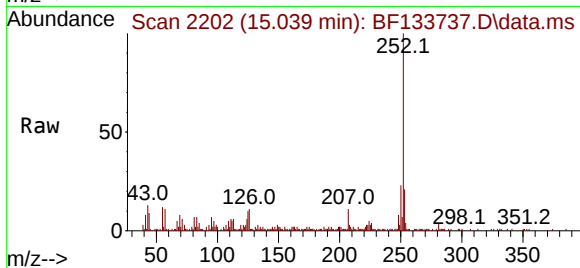
Tgt Ion:252 Resp: 49658

Ion Ratio Lower Upper

252 100

253 21.0 17.0 25.4

125 10.0 7.8 11.6



#90

Benzo(a)pyrene

Concen: 2.880 ng

RT: 15.404 min Scan# 2264

Delta R.T. -0.018 min

Lab File: BF133737.D

Acq: 13 Jun 2023 18:29

Tgt Ion:252 Resp: 25035

Ion Ratio Lower Upper

252 100

253 23.0 17.1 25.7

125 12.1 8.6 13.0

