

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011023\
 Data File : BF132005.D
 Acq On : 10 Jan 2023 19:57
 Operator : CG\JU
 Sample : 01052-01RE
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 UST-DRUMRE

Quant Time: Jan 11 00:39:05 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF010923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 10 00:32:25 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 01/11/2023
 Supervised By :Jagrut Upadhyay 01/11/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	58714	20.000	ng	0.02
21) Naphthalene-d8	8.098	136	154547	20.000	ng	# 0.02
39) Acenaphthene-d10	9.875	164	109993	20.000	ng	# 0.04
64) Phenanthrene-d10	11.374	188	159129	20.000	ng	# 0.04
76) Chrysene-d12	13.992	240	125213	20.000	ng	# 0.00
86) Perylene-d12	15.457	264	142982	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	42913	12.043	ng	0.03
7) Phenol-d6	6.598	99	549327m	116.275	ng	0.16
23) Nitrobenzene-d5	7.381	82	469859	126.180	ng	0.01
42) 2,4,6-Tribromophenol	10.692	330	120730	95.463	ng	0.05
45) 2-Fluorobiphenyl	9.186	172	619242	76.001	ng	0.02
79) Terphenyl-d14	12.945	244	652746	74.718	ng	0.02
Target Compounds						Qvalue
31) Naphthalene	8.133	128	1800581	220.459	ng	# 95
37) 2-Methylnaphthalene	8.845	142	3249839	554.023	ng	98
38) 1-Methylnaphthalene	8.933	142	1765114	324.792	ng	97
46) 1,1'-Biphenyl	9.286	154	440235	51.855	ng	99
52) Acenaphthene	9.910	154	134904	21.979	ng	# 73
58) Fluorene	10.433	166	321567m	41.607	ng	
71) Phenanthrene	11.404	178	975255	117.565	ng	# 96
72) Anthracene	11.451	178	90445	10.591	ng	# 30
73) Carbazole	11.616	167	129813m	18.361	ng	
75) Fluoranthene	12.586	202	48844m	5.235	ng	
78) Pyrene	12.810	202	233075m	20.409	ng	
84) Bis(2-ethylhexyl)phtha...	13.963	149	46920	7.513	ng	# 96

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

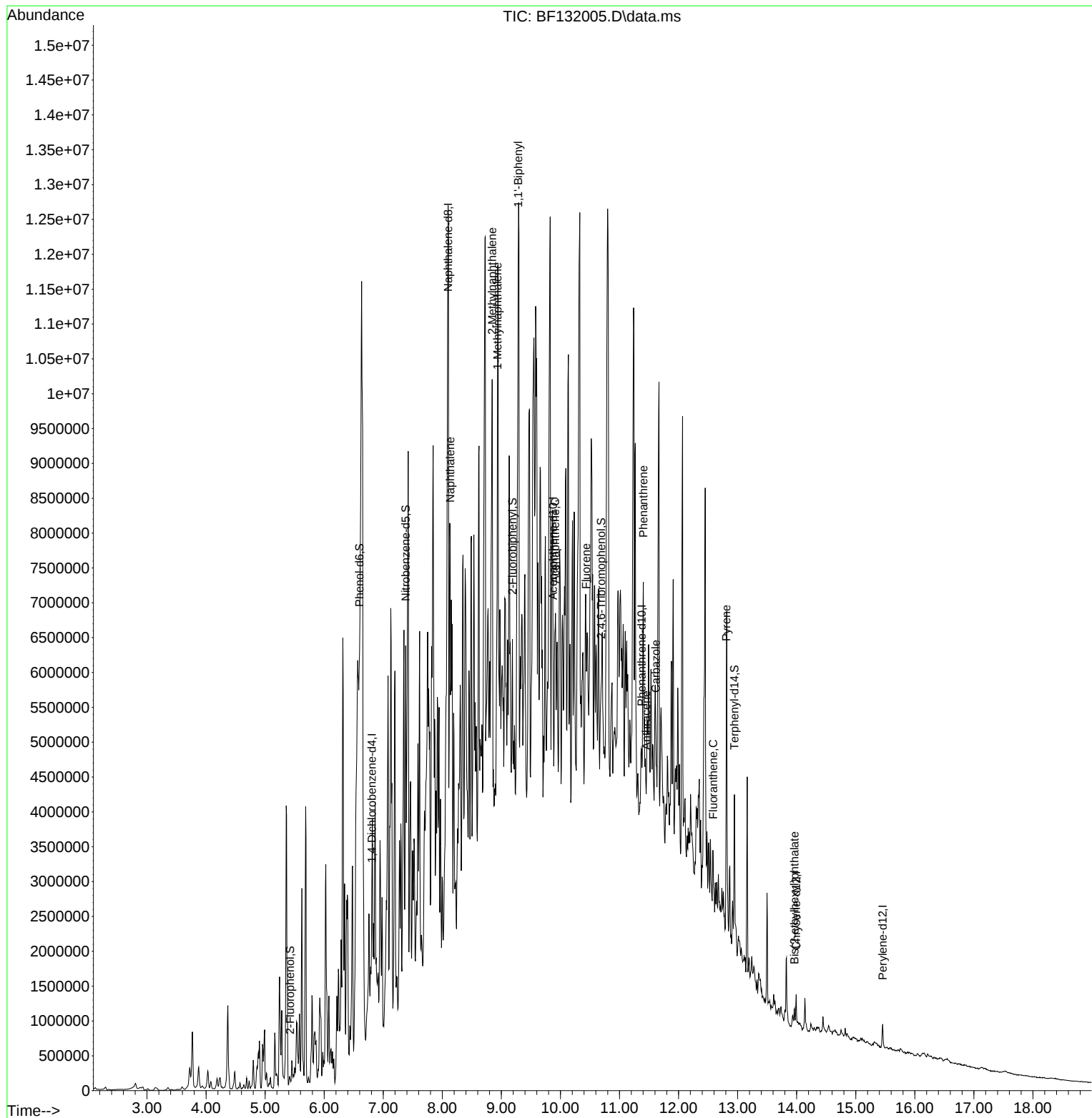
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011023\
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ALS Vial : 11 Sample Multiplier: 1

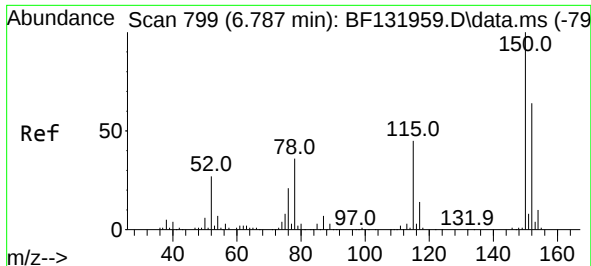
Instrument :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF010923.M
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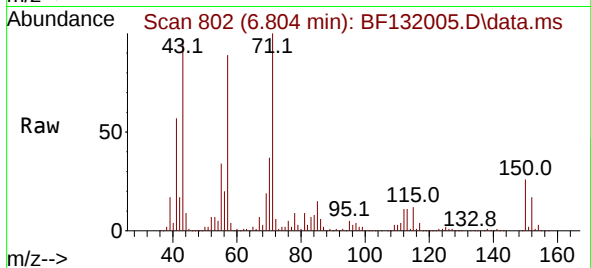
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Supervised By : Jagrut Upadhyay 01/11/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 801
Delta R.T. 0.017 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

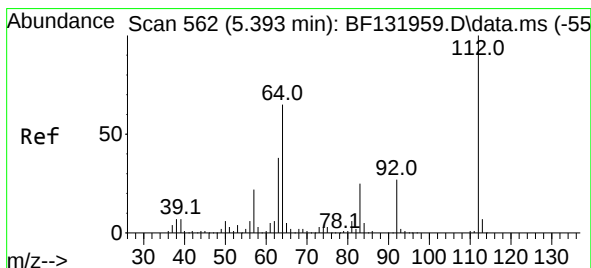
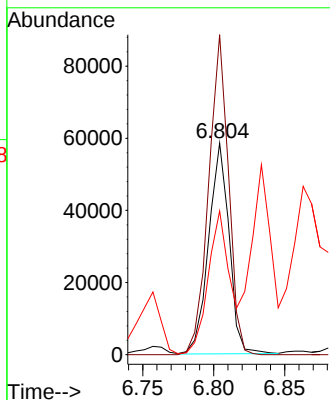
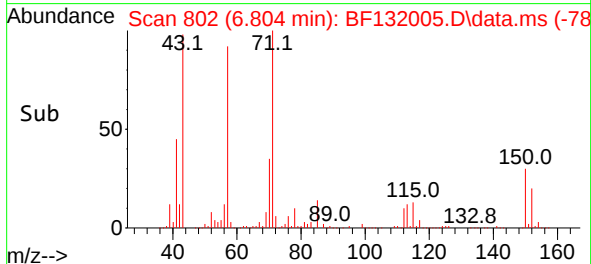
Instrument :
BNA_F
ClientSampleId :
UST-DRUMRE



Tgt Ion:152 Resp: 58714
Ion Ratio Lower Upper
152 100
150 151.1 124.6 186.8
115 67.8 55.6 83.4

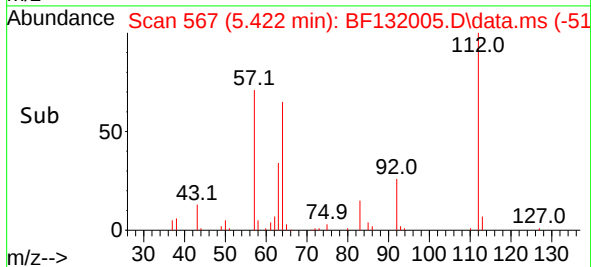
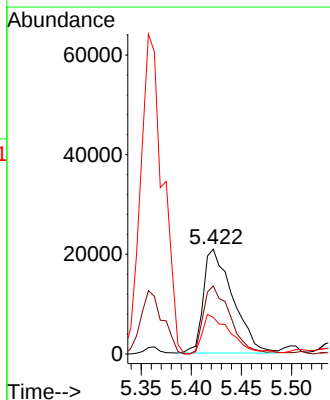
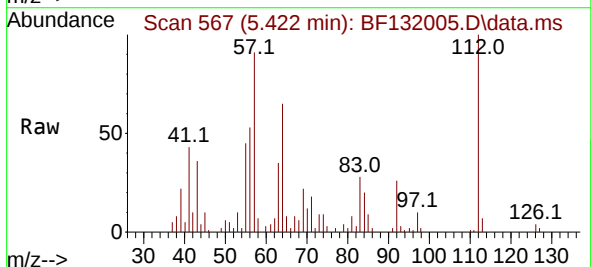
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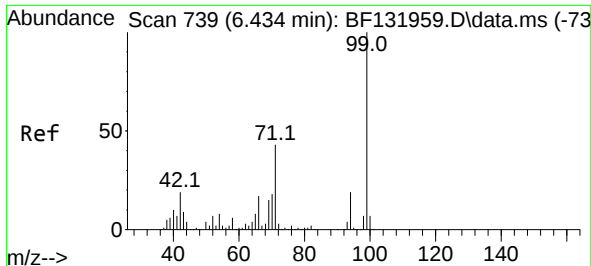
Reviewed By :Christian Giraldo 01/11/2023
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#5
2-Fluorophenol
Concen: 12.043 ng
RT: 5.422 min Scan# 567
Delta R.T. 0.029 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

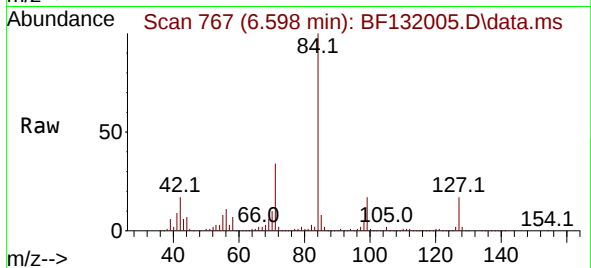
Tgt Ion:112 Resp: 42913
Ion Ratio Lower Upper
112 100
64 64.9 51.9 77.9
63 34.9 30.2 45.2





#7
Phenol-d6
Concen: 116.275 ng m
RT: 6.598 min Scan# 70
Delta R.T. 0.165 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

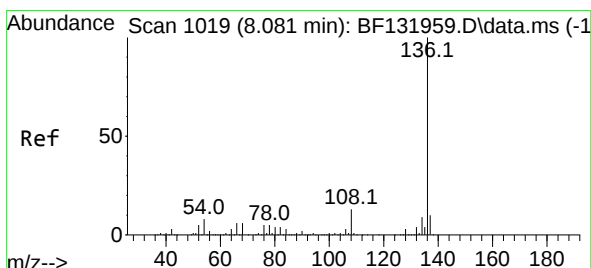
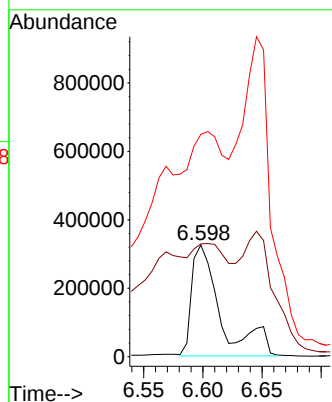
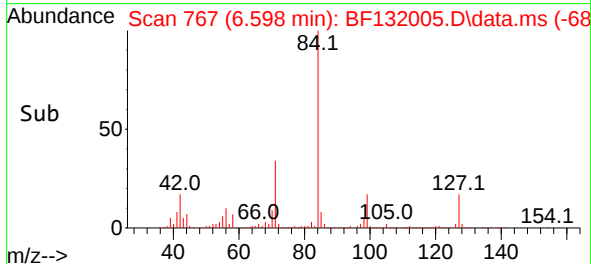
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 99 Resp: 54932
Ion Ratio Lower Upper
99 100
42 100.9 15.4 23.2#
71 198.8 34.6 51.8#

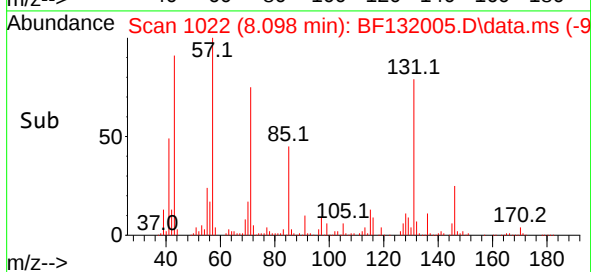
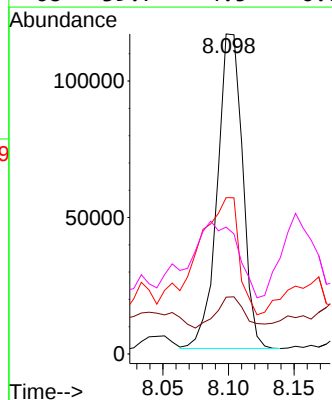
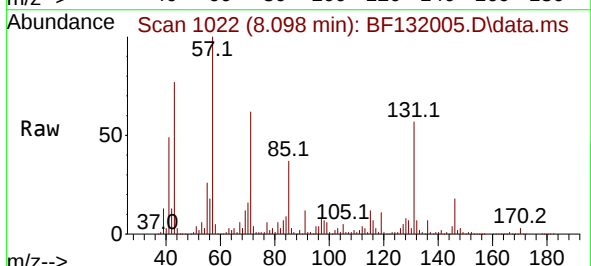
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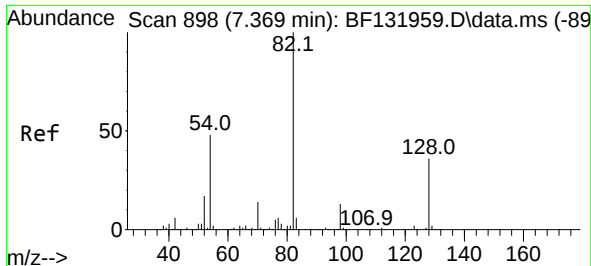
Reviewed By :Christian Giraldo 01/11/2023
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.098 min Scan# 1022
Delta R.T. 0.017 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

Tgt Ion:136 Resp: 154547
Ion Ratio Lower Upper
136 100
137 17.8 8.2 12.2#
54 48.9 6.6 9.8#
68 39.7 4.5 6.7#





#23

Nitrobenzene-d5

Concen: 126.180 ng

RT: 7.381 min Scan# 90

Delta R.T. 0.012 min

Lab File: BF132005.D

Acq: 10 Jan 2023 19:57

Instrument :

BNA_F

ClientSampleId :

UST-DRUMRE

Tgt Ion: 82 Resp: 46985

Ion Ratio Lower Upper

82 100

128 42.2 28.7 43.1

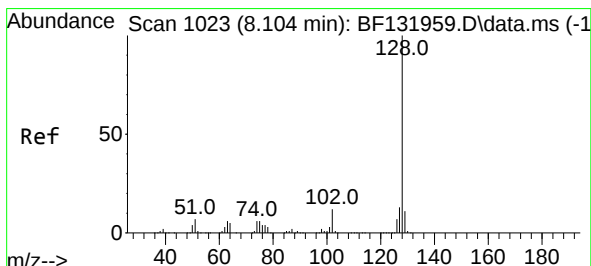
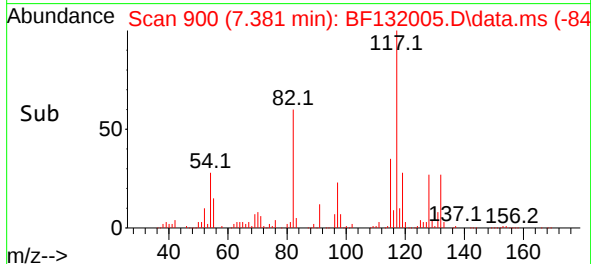
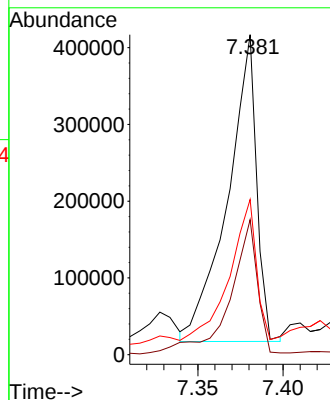
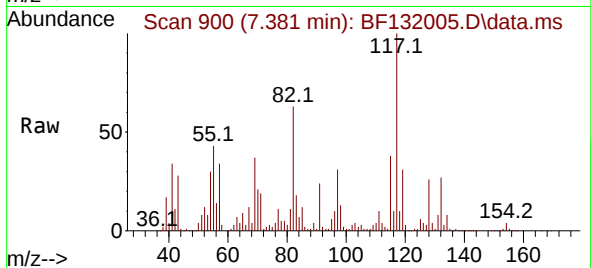
54 48.5 38.1 57.1

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#31

Naphthalene

Concen: 220.459 ng

RT: 8.133 min Scan# 1028

Delta R.T. 0.029 min

Lab File: BF132005.D

Acq: 10 Jan 2023 19:57

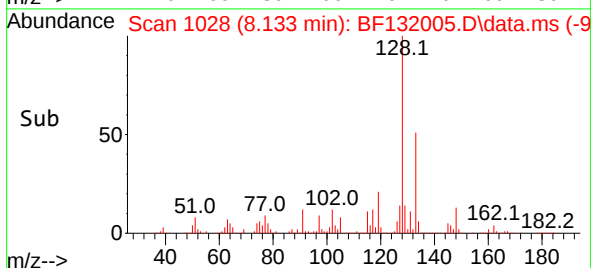
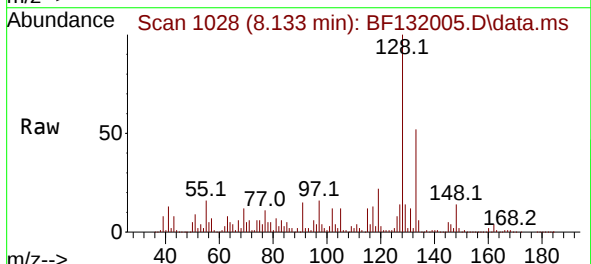
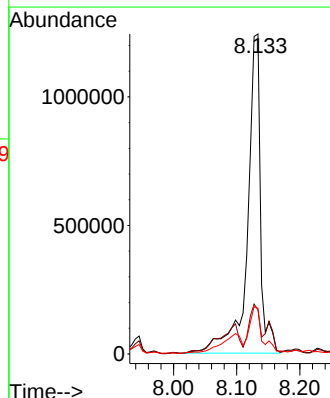
Tgt Ion:128 Resp: 1800581

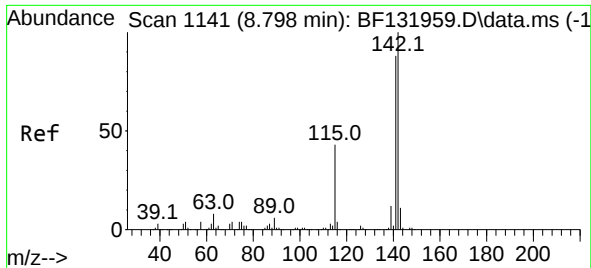
Ion Ratio Lower Upper

128 100

129 13.8 8.8 13.2#

127 14.3 10.5 15.7





#37

2-Methylnaphthalene

Concen: 554.023 ng

RT: 8.845 min Scan# 1149

Delta R.T. 0.047 min

Lab File: BF132005.D

Acq: 10 Jan 2023 19:57

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion:142 Resp: 3249839

Ion Ratio Lower Upper

142 100

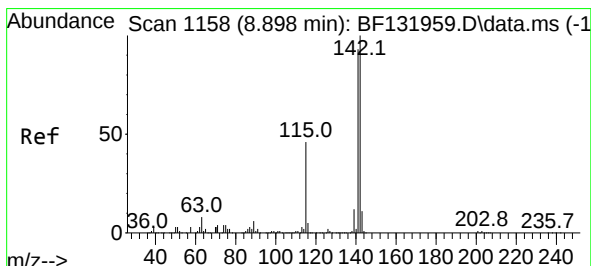
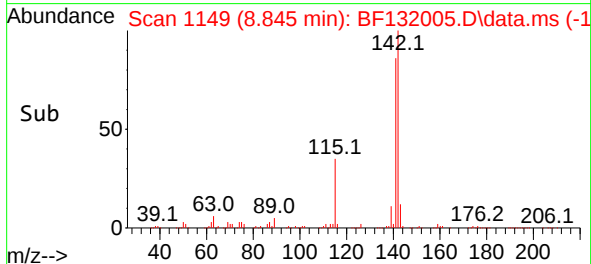
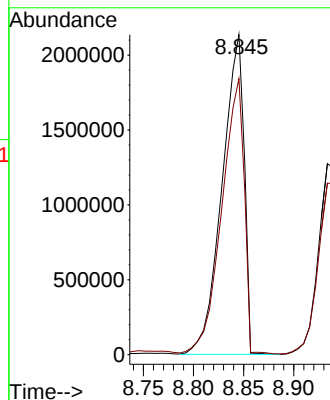
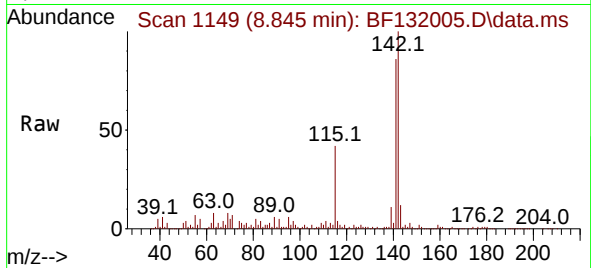
141 86.3 70.6 106.0

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#38

1-Methylnaphthalene

Concen: 324.792 ng

RT: 8.933 min Scan# 1164

Delta R.T. 0.035 min

Lab File: BF132005.D

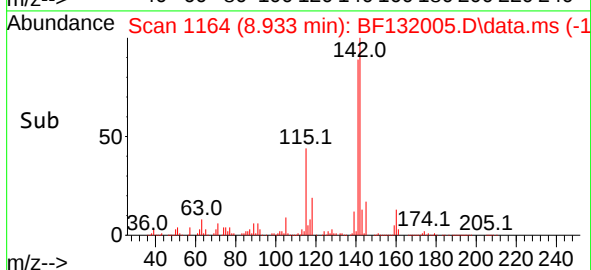
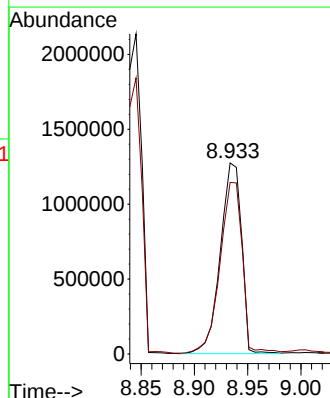
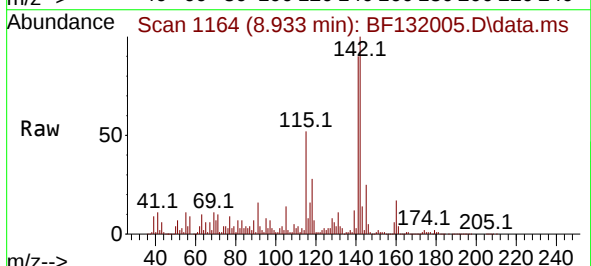
Acq: 10 Jan 2023 19:57

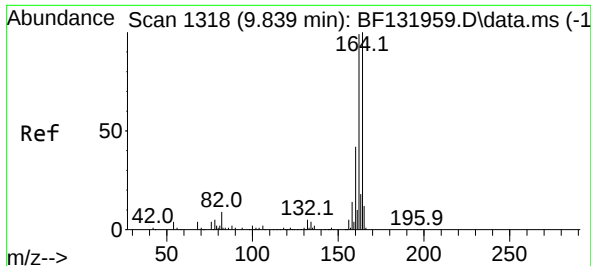
Tgt Ion:142 Resp: 1765114

Ion Ratio Lower Upper

142 100

141 89.8 74.3 111.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.875 min Scan# 11

Delta R.T. 0.035 min

Lab File: BF132005.D

Acq: 10 Jan 2023 19:57

Instrument :

BNA_F

ClientSampleId :

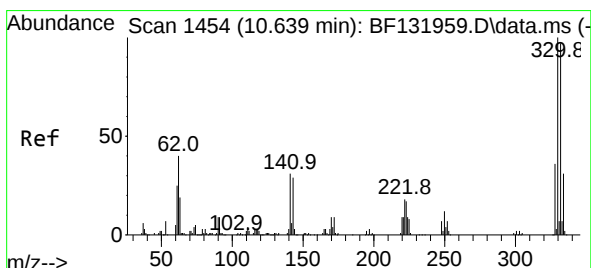
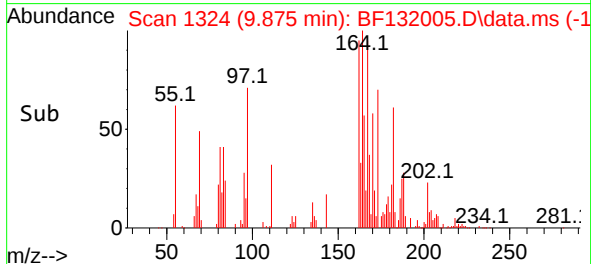
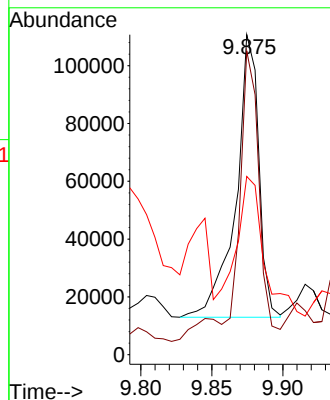
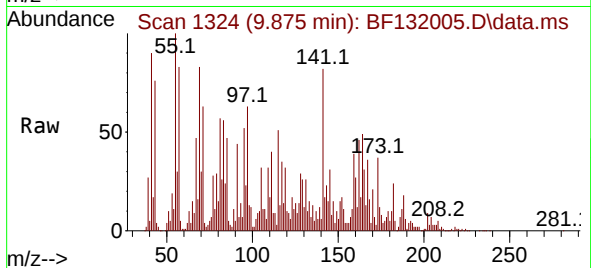
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Tgt Ion:164 Resp: 10999
 Ion Ratio Lower Upper
 164 100
 162 94.9 79.4 119.0
 160 55.7 33.9 50.9

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#42

2,4,6-Tribromophenol

Concen: 95.463 ng

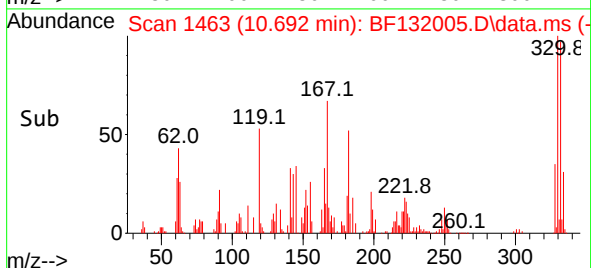
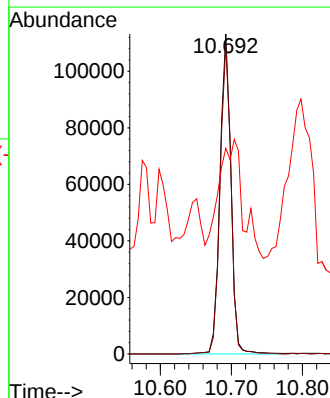
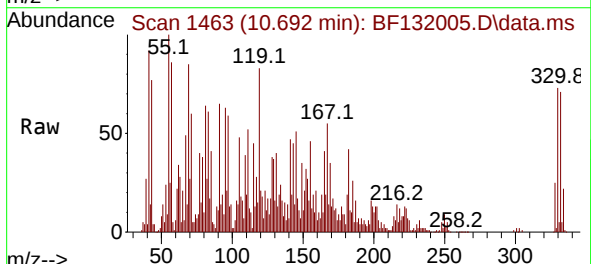
RT: 10.692 min Scan# 1463

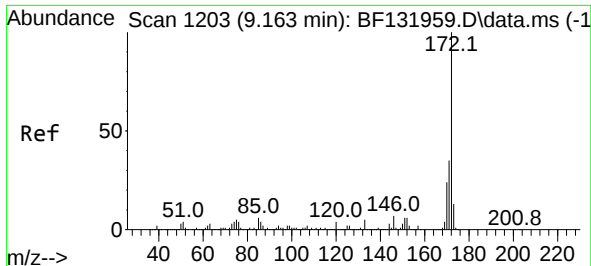
Delta R.T. 0.053 min

Lab File: BF132005.D

Acq: 10 Jan 2023 19:57

Tgt Ion:330 Resp: 120730
 Ion Ratio Lower Upper
 330 100
 332 96.8 76.9 115.3
 141 59.8 31.3 46.9





#45

2-Fluorobiphenyl

Concen: 76.001 ng

RT: 9.186 min Scan# 11

Delta R.T. 0.023 min

Lab File: BF132005.D

Acq: 10 Jan 2023 19:57

Instrument :

BNA_F

ClientSampleId :

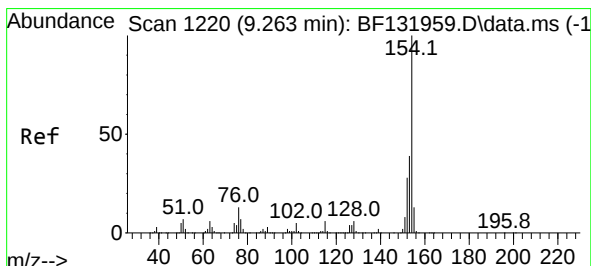
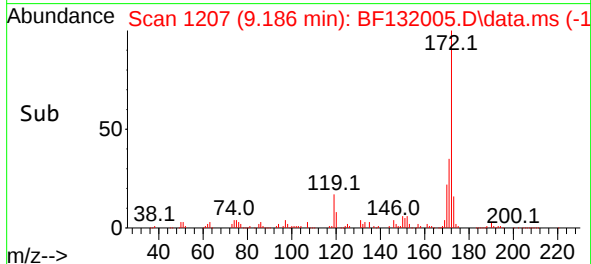
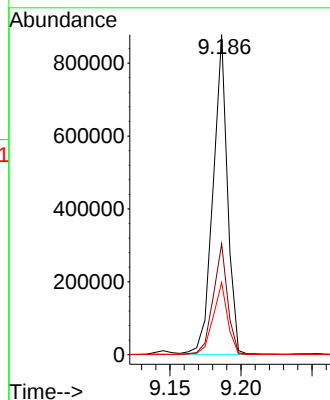
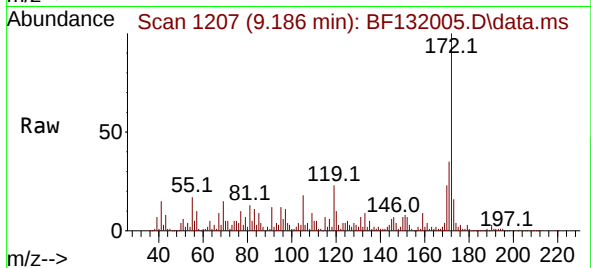
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Tgt Ion:172 Resp: 61924
 Ion Ratio Lower Upper
 172 100
 171 34.7 28.0 42.0
 170 22.6 18.9 28.3

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#46

1,1'-Biphenyl

Concen: 51.855 ng

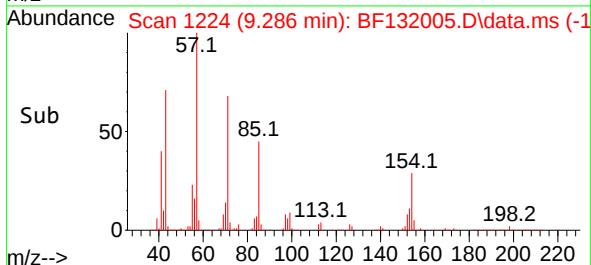
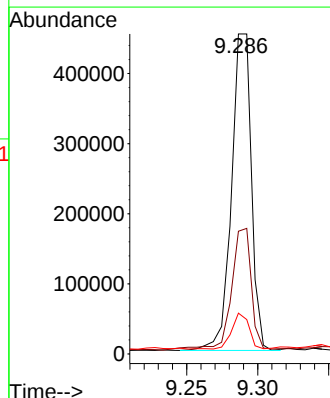
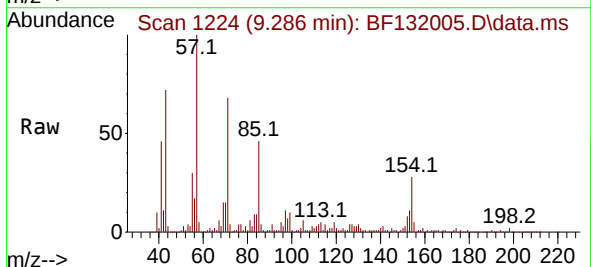
RT: 9.286 min Scan# 1224

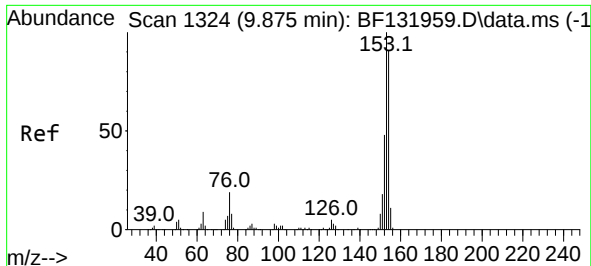
Delta R.T. 0.023 min

Lab File: BF132005.D

Acq: 10 Jan 2023 19:57

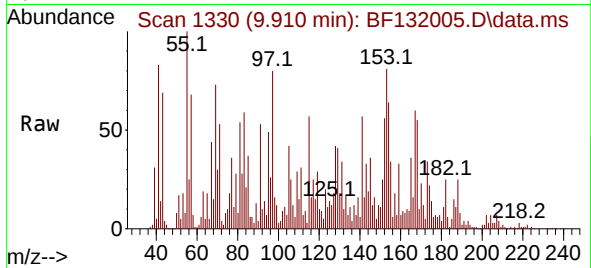
Tgt Ion:154 Resp: 440235
 Ion Ratio Lower Upper
 154 100
 153 38.3 18.9 58.9
 76 12.8 0.0 33.2





#52
Acenaphthene
Concen: 21.979 ng
RT: 9.910 min Scan# 11
Delta R.T. 0.035 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

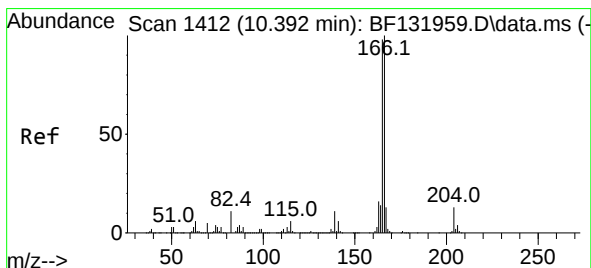
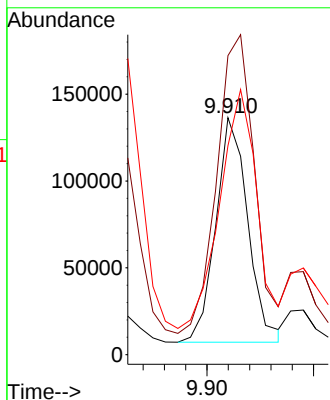
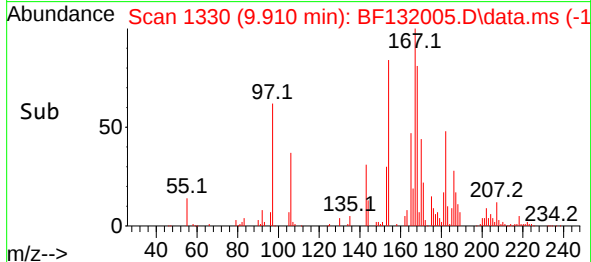
Instrument :
BNA_F
ClientSampleId :
UST-DRUMRE



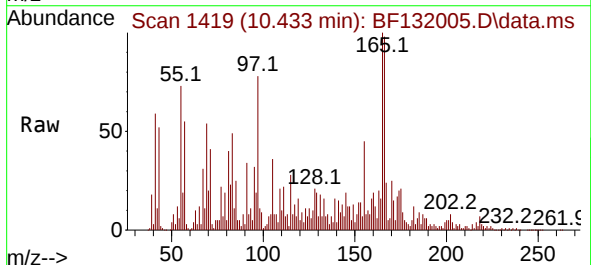
Tgt Ion:154 Resp: 134904
Ion Ratio Lower Upper
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153 126.2 87.7 131.5
152 88.2 42.2 63.2

Manual Integrations
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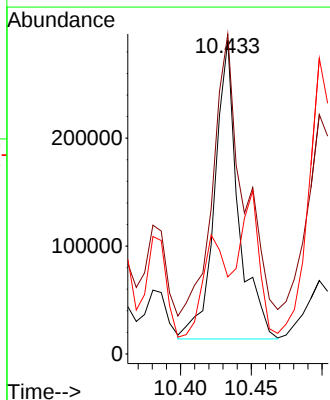
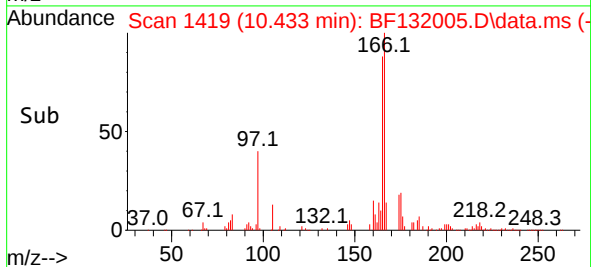
Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023

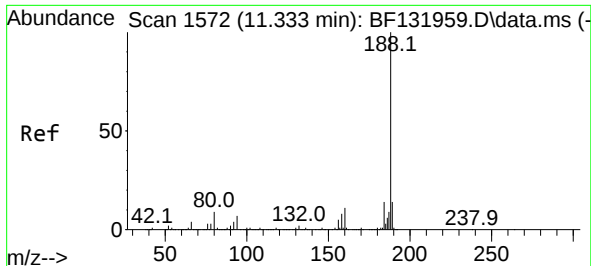


#58
Fluorene
Concen: 41.607 ng m
RT: 10.433 min Scan# 1419
Delta R.T. 0.041 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57



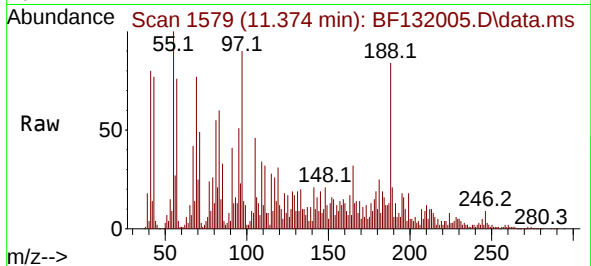
Tgt Ion:166 Resp: 321567
Ion Ratio Lower Upper
166 100
165 102.0 78.3 117.5
167 24.6 10.7 16.1





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.374 min Scan# 1584
Delta R.T. 0.041 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

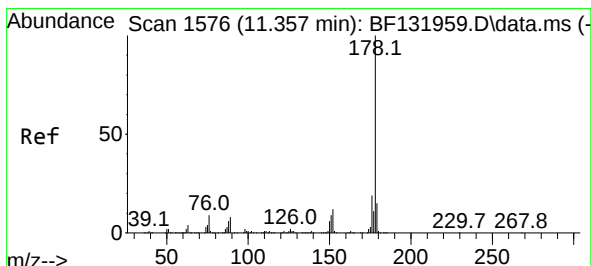
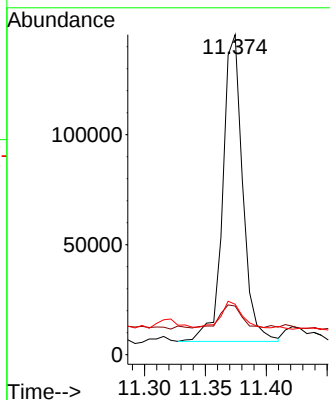
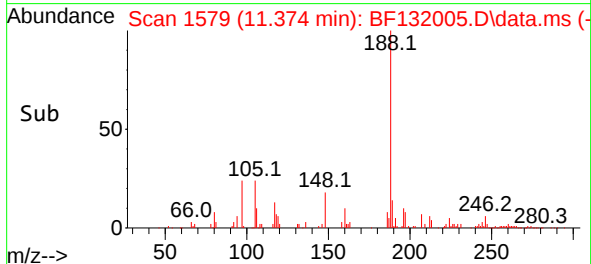
Instrument :
BNA_F
ClientSampleId :
UST-DRUMRE



Tgt Ion:188 Resp: 159129
Ion Ratio Lower Upper
188 100
94 15.2 5.8 8.6
80 15.8 7.4 11.0

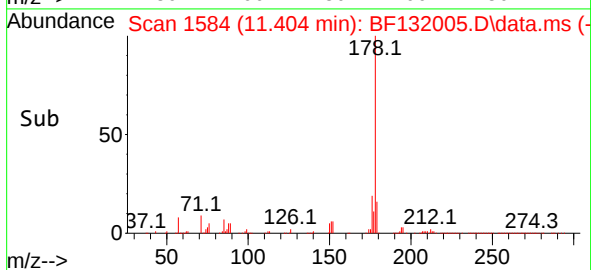
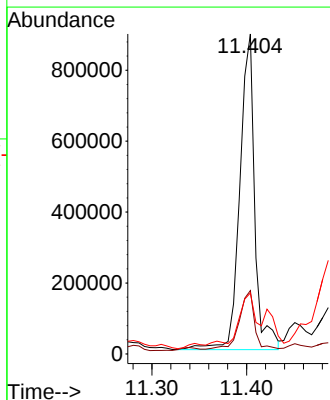
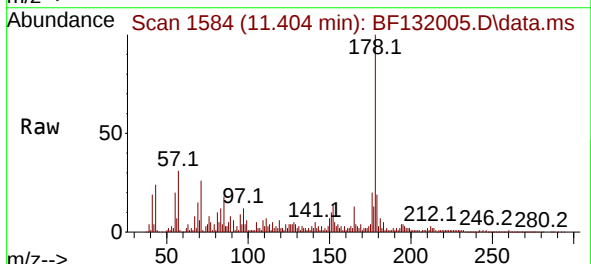
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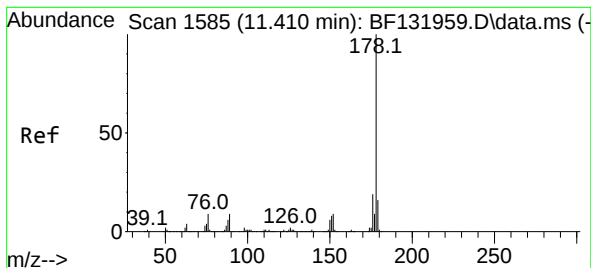
Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023



#71
Phenanthrene
Concen: 117.565 ng
RT: 11.404 min Scan# 1584
Delta R.T. 0.047 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

Tgt Ion:178 Resp: 975255
Ion Ratio Lower Upper
178 100
176 19.8 15.5 23.3
179 19.1 12.4 18.6





#72

Anthracene

Concen: 10.591 ng

RT: 11.451 min Scan# 11451

Delta R.T. 0.041 min

Lab File: BF132005.D

Acq: 10 Jan 2023 19:57

Instrument :

BNA_F

ClientSampleId :

UST-DRUMRE

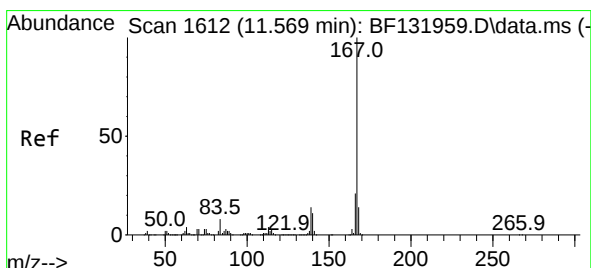
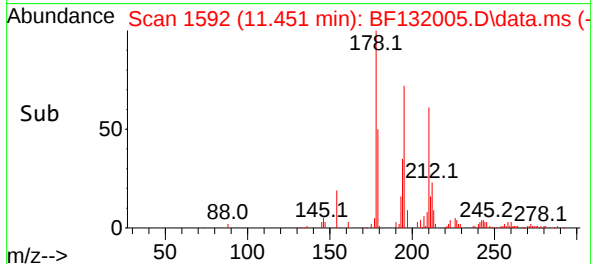
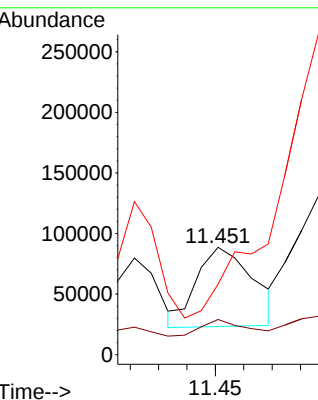
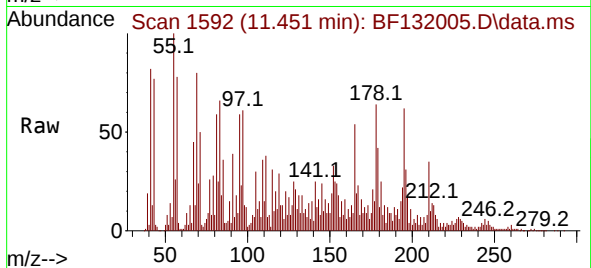
Tgt Ion:178	Resp:	9044
Ion Ratio	Lower	Upper
178	100	
176	32.8	15.3 22.9
179	65.7	12.6 19.0

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Reviewed By :Christian Giraldo 01/11/2023

Supervised By :Jagrut Upadhyay 01/11/2023



#73

Carbazole

Concen: 18.361 ng m

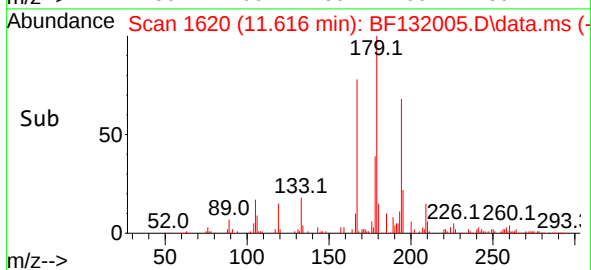
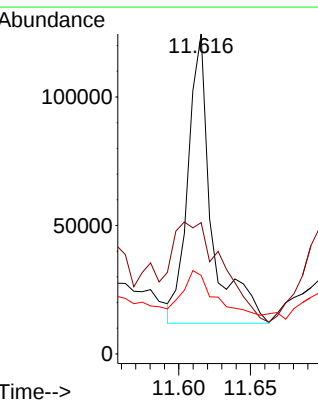
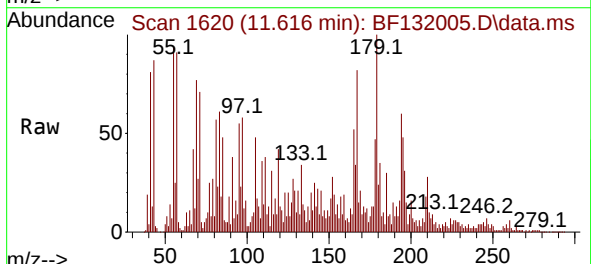
RT: 11.616 min Scan# 1620

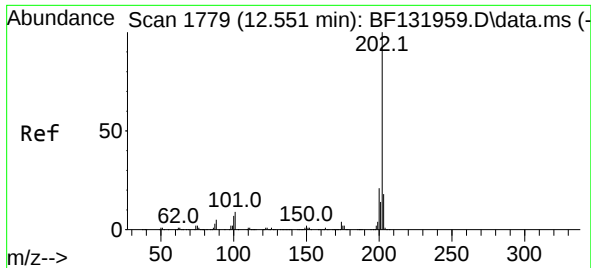
Delta R.T. 0.047 min

Lab File: BF132005.D

Acq: 10 Jan 2023 19:57

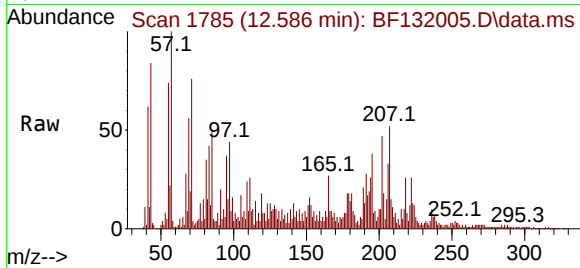
Tgt Ion:167	Resp:	129813
Ion Ratio	Lower	Upper
167	100	
166	41.1	16.8 25.2
139	24.5	11.1 16.7





#75
Fluoranthene
Concen: 5.235 ng m
RT: 12.586 min Scan# 1785
Delta R.T. 0.035 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

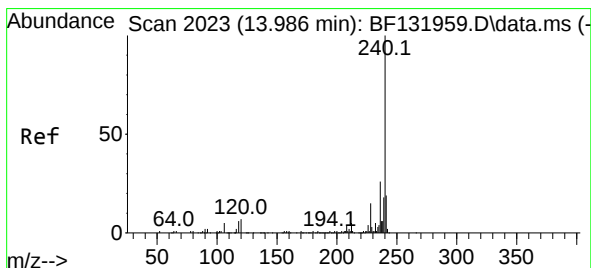
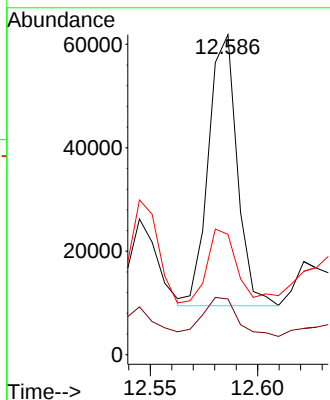
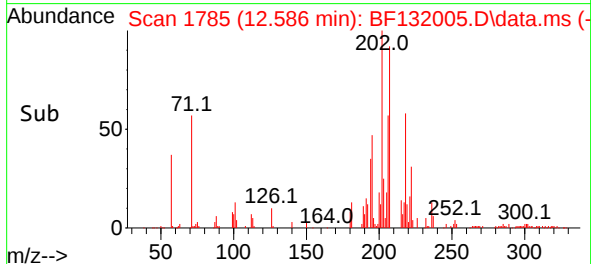
Instrument :
BNA_F
ClientSampleId :
UST-DRUMRE



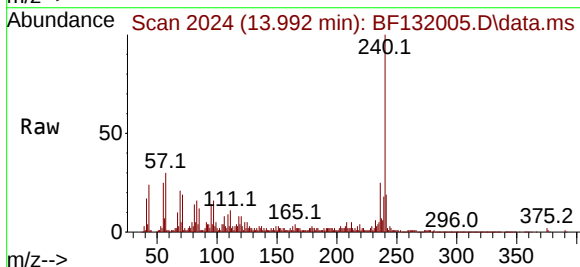
Tgt Ion:202 Resp: 48844
Ion Ratio Lower Upper
202 100
101 17.4 0.0 28.8
203 37.6 0.0 37.6

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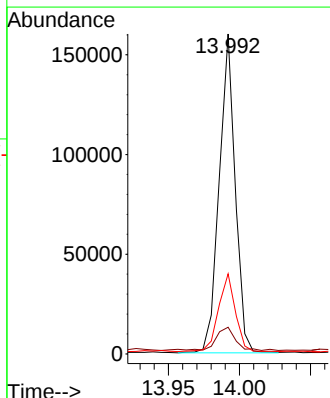
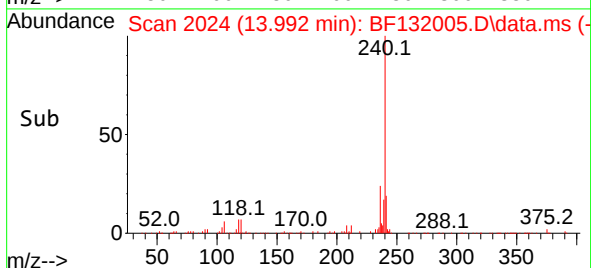
Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023

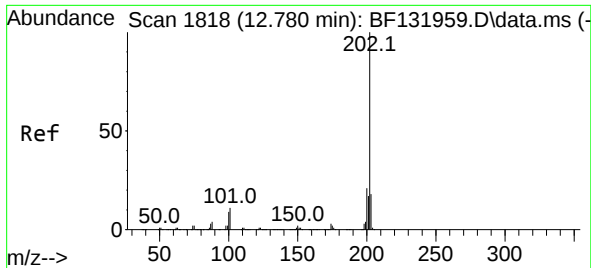


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.992 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57



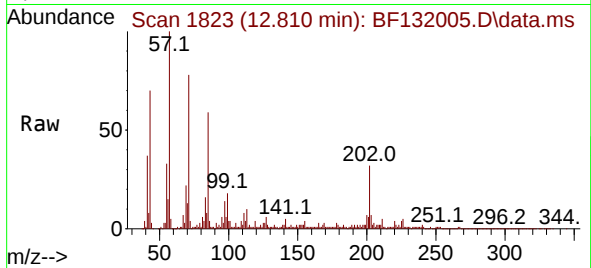
Tgt Ion:240 Resp: 125213
Ion Ratio Lower Upper
240 100
120 8.3 5.4 8.0#
236 25.0 21.1 31.7





#78
Pyrene
Concen: 20.409 ng m
RT: 12.810 min Scan# 1823
Delta R.T. 0.029 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

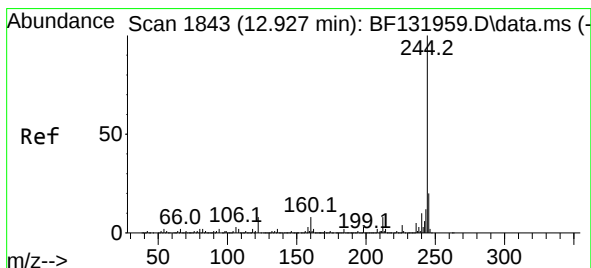
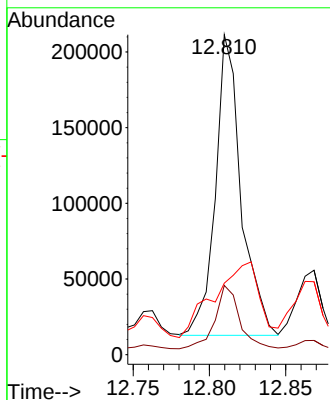
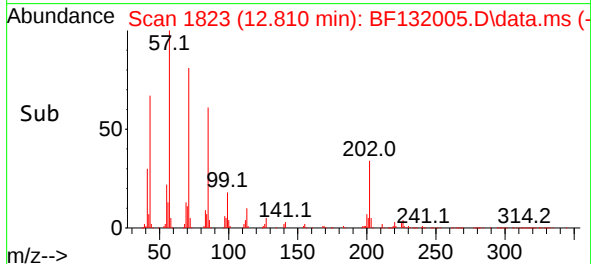
Instrument :
BNA_F
ClientSampleId :
UST-DRUMRE



Tgt Ion:202 Resp: 233079
Ion Ratio Lower Upper
202 100
200 21.6 17.0 25.6
203 22.3 14.1 21.1

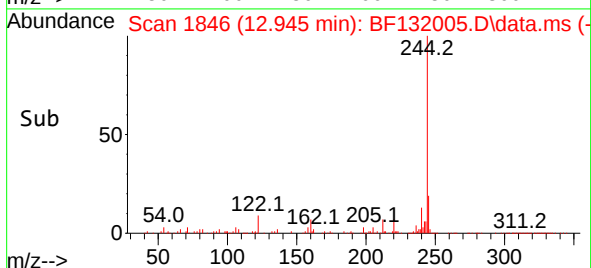
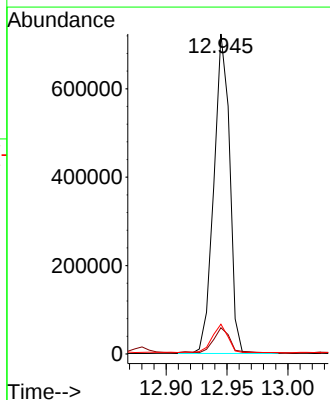
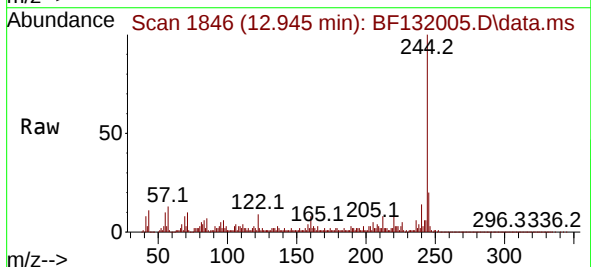
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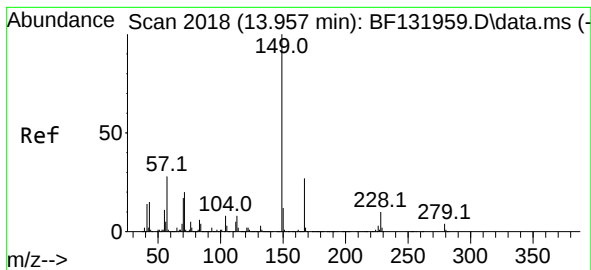
Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023



#79
Terphenyl-d14
Concen: 74.718 ng
RT: 12.945 min Scan# 1846
Delta R.T. 0.017 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

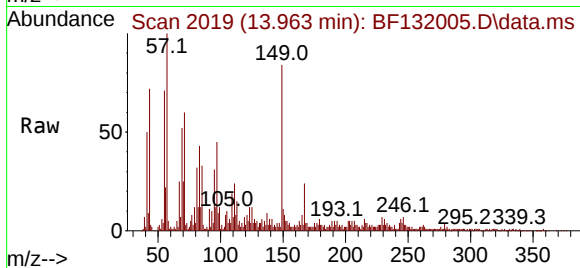
Tgt Ion:244 Resp: 652746
Ion Ratio Lower Upper
244 100
212 8.2 6.3 9.5
122 9.3 6.8 10.2





#84
Bis(2-ethylhexyl)phthalate
Concen: 7.513 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.006 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

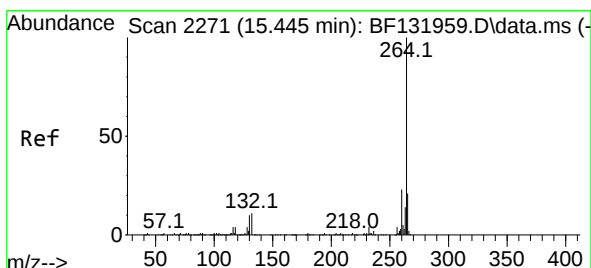
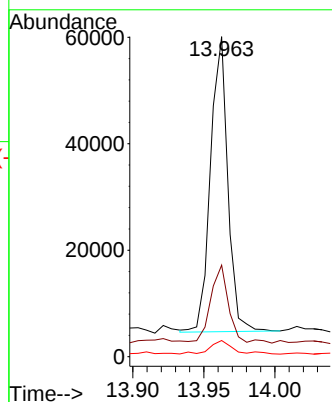
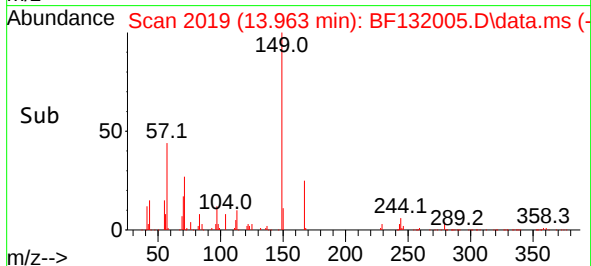
Instrument :
BNA_F
ClientSampleId :
UST-DRUMRE



Tgt Ion:149 Resp: 46920
Ion Ratio Lower Upper
149 100
167 28.6 21.3 31.9
279 5.1 3.2 4.8

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Reviewed By :Christian Giraldo 01/11/2023
Supervised By :Jagrut Upadhyay 01/11/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.457 min Scan# 2273
Delta R.T. 0.012 min
Lab File: BF132005.D
Acq: 10 Jan 2023 19:57

Tgt Ion:264 Resp: 142982
Ion Ratio Lower Upper
264 100
260 23.0 18.3 27.5
265 21.1 16.9 25.3

