

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051623\
 Data File : BF133403.D
 Acq On : 16 May 2023 15:35
 Operator : CG\JU
 Sample : 02784-01RE
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BU-03-051223RE

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/17/2023
 Supervised By : Jagrut Upadhyay 05/17/2023

Quant Time: May 16 16:52:18 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 16 14:39:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.716	152	211951	20.000	ng	0.00
21) Naphthalene-d8	8.004	136	793607	20.000	ng	0.00
39) Acenaphthene-d10	9.757	164	355382	20.000	ng	0.00
64) Phenanthrene-d10	11.239	188	570303	20.000	ng	0.00
76) Chrysene-d12	13.880	240	494007	20.000	ng	0.00
86) Perylene-d12	15.309	264	428341	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.328	112	326972	23.304	ng	0.00
7) Phenol-d6	6.357	99	383280	22.008	ng	-0.01
23) Nitrobenzene-d5	7.281	82	183250	12.464	ng	-0.01
42) 2,4,6-Tribromophenol	10.545	330	96637	27.039	ng	0.00
45) 2-Fluorobiphenyl	9.075	172	312222	14.698	ng	-0.01
79) Terphenyl-d14	12.827	244	797280	27.834	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.263	178	159838	5.215	ng	99
75) Fluoranthene	12.451	202	319991	10.402	ng	99
78) Pyrene	12.680	202	347804	8.213	ng	99
81) Benzo(a)anthracene	13.868	228	165088	4.860	ng	94
83) Chrysene	13.904	228	180933m	5.327	ng	
87) Indeno(1,2,3-cd)pyrene	16.692	276	68778	2.823	ng	92
88) Benzo(b)fluoranthene	14.904	252	199256m	7.312	ng	
89) Benzo(k)fluoranthene	14.927	252	55108m	2.040	ng	
90) Benzo(a)pyrene	15.251	252	124514	5.020	ng	# 72
92) Benzo(g,h,i)perylene	17.109	276	71838	3.581	ng	92

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

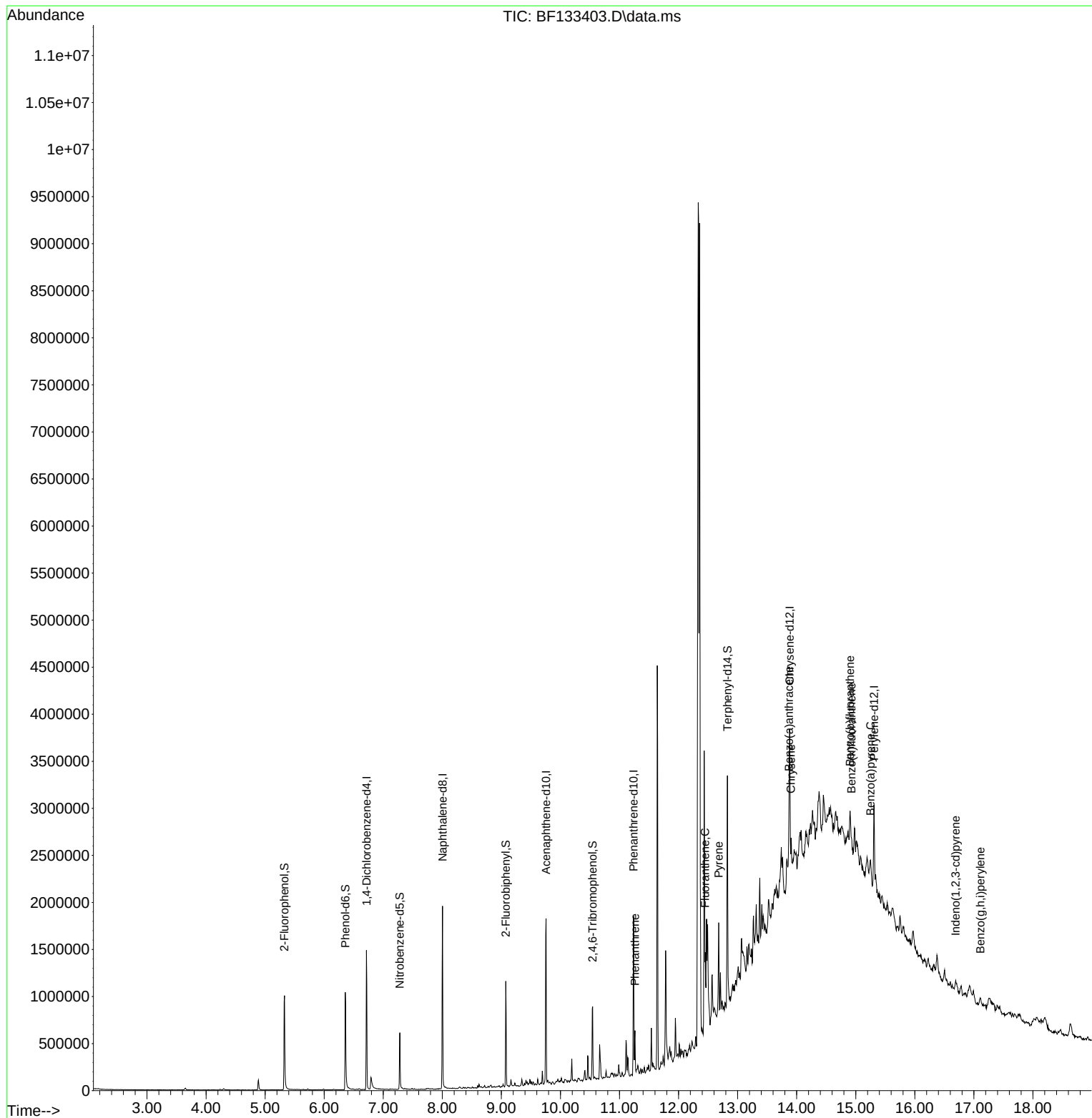
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051623\
Data File : BF133403.D
Acq On : 16 May 2023 15:35
Operator : CG\JU
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ALS Vial : 8 Sample Multiplier: 1

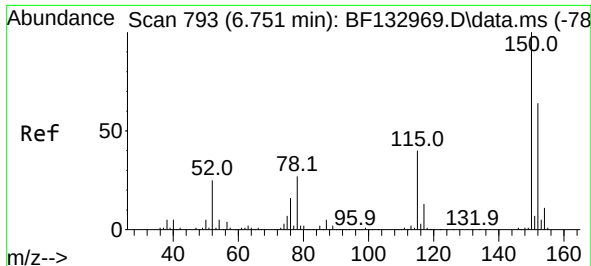
Instrument :
BNA_F
ClientSampleId :
BU-03-051223RE

Quant Time: May 16 16:52:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 16 14:39:29 2023
Response via : Initial Calibration

Manual Integrations
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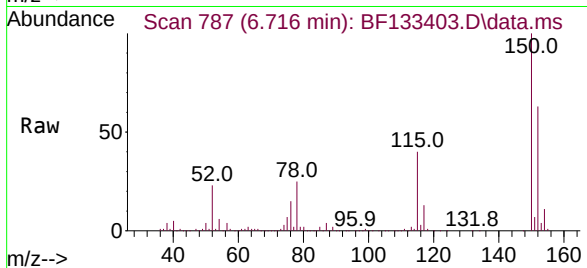
Reviewed By :Christian Giraldo 05/17/2023
Supervised By :Jagrut Upadhyay 05/17/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.716 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133403.D
Acq: 16 May 2023 15:35

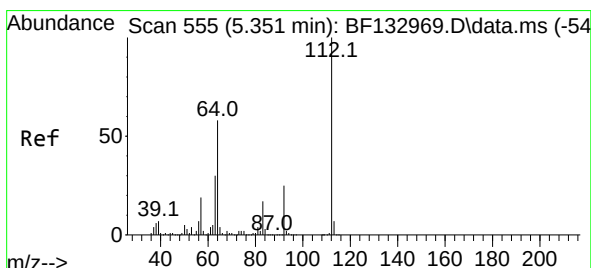
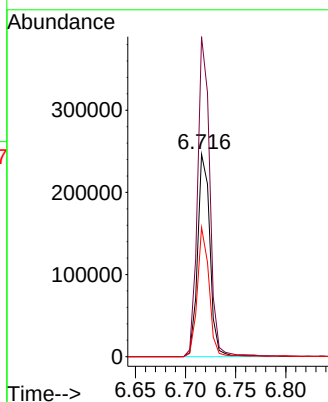
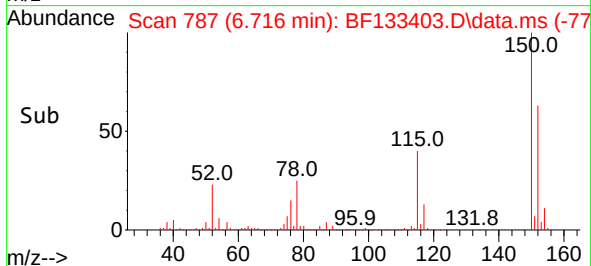
Instrument :
BNA_F
ClientSampleId :
BU-03-051223RE



Tgt Ion:152 Resp: 21195
Ion Ratio Lower Upper
152 100
150 158.1 124.8 187.2
115 63.9 49.9 74.9

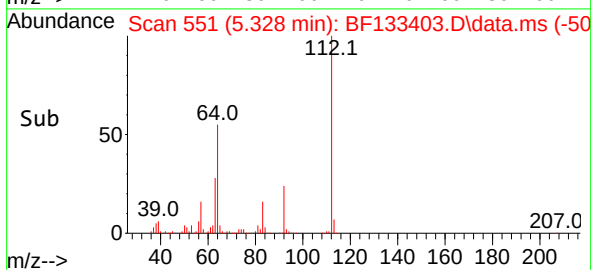
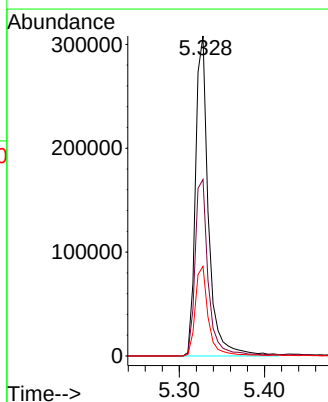
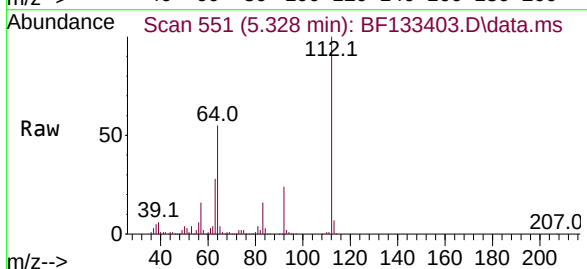
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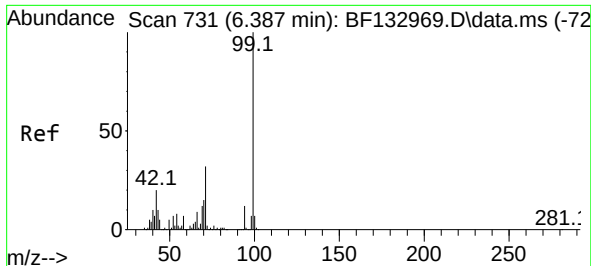
Reviewed By :Christian Giraldo 05/17/2023
Supervised By :Jagrut Upadhyay 05/17/2023



#5
2-Fluorophenol
Concen: 23.304 ng
RT: 5.328 min Scan# 551
Delta R.T. -0.006 min
Lab File: BF133403.D
Acq: 16 May 2023 15:35

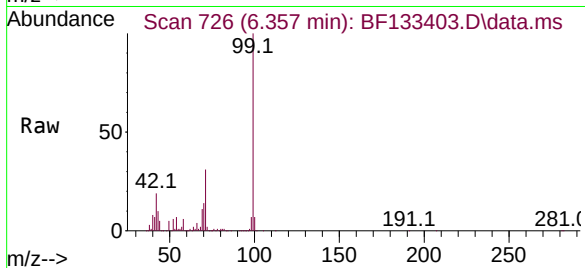
Tgt Ion:112 Resp: 326972
Ion Ratio Lower Upper
112 100
64 55.1 46.8 70.2
63 28.0 23.8 35.8





#7
Phenol-d6
Concen: 22.008 ng
RT: 6.357 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133403.D
Acq: 16 May 2023 15:35

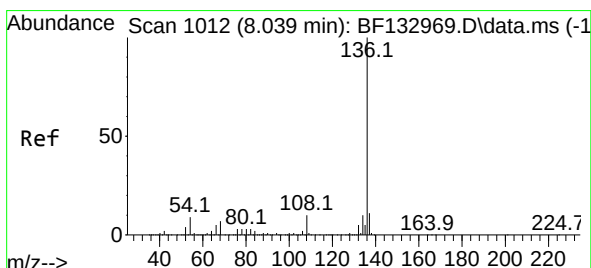
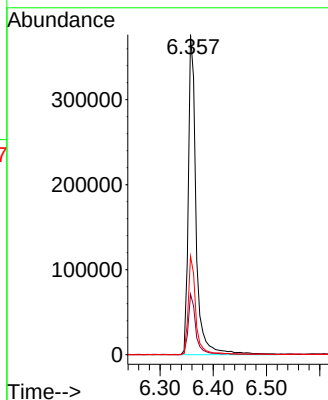
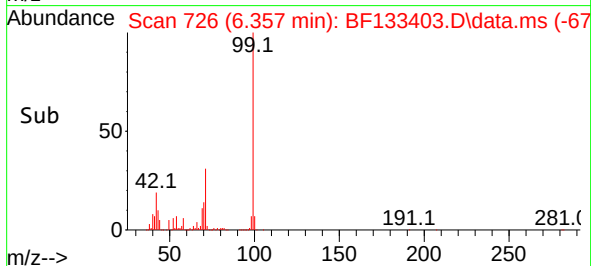
Instrument :
BNA_F
ClientSampleId :
BU-03-051223RE



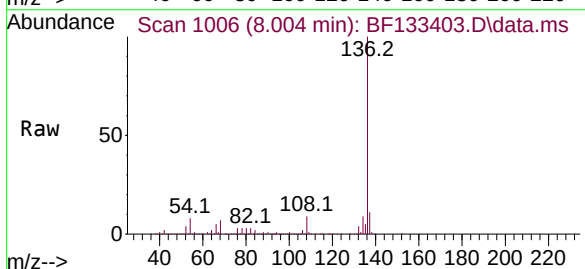
Tgt Ion: 99 Resp: 383280
Ion Ratio Lower Upper
99 100
42 18.9 16.3 24.5
71 30.7 25.6 38.4

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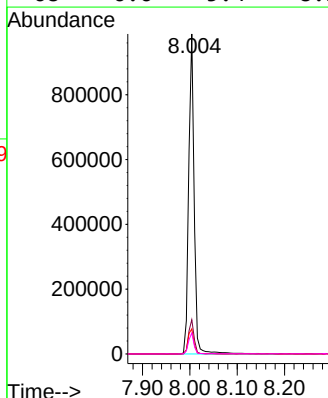
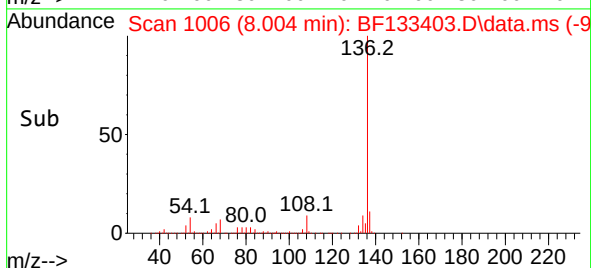
Reviewed By :Christian Giraldo 05/17/2023
Supervised By :Jagrut Upadhyay 05/17/2023

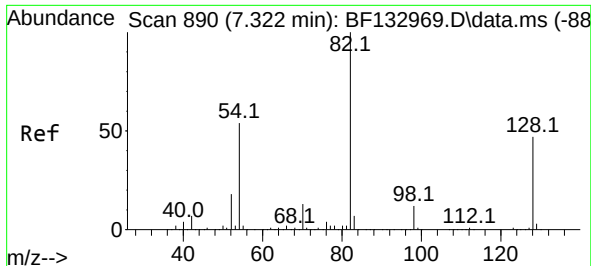


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.004 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF133403.D
Acq: 16 May 2023 15:35



Tgt Ion:136 Resp: 793607
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 7.9 7.0 10.4
68 6.6 5.4 8.2





#23

Nitrobenzene-d5

Concen: 12.464 ng

RT: 7.281 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

Instrument :

BNA_F

ClientSampleId :

BU-03-051223RE

Tgt Ion: 82 Resp: 183250

Ion Ratio Lower Upper

82 100

128 46.3 37.7 56.5

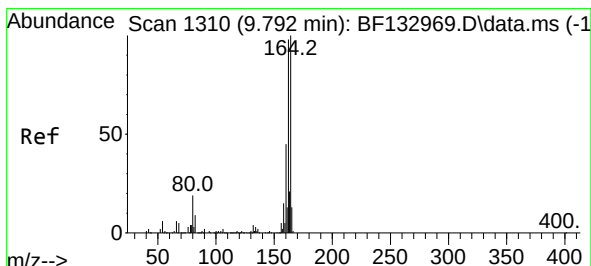
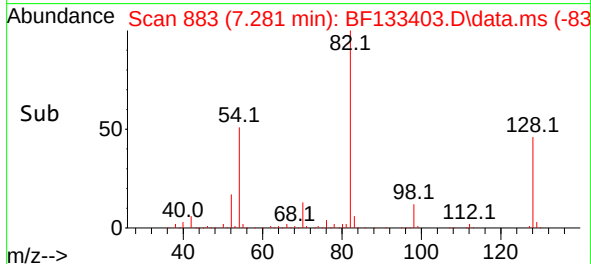
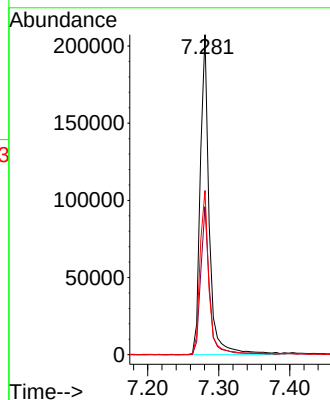
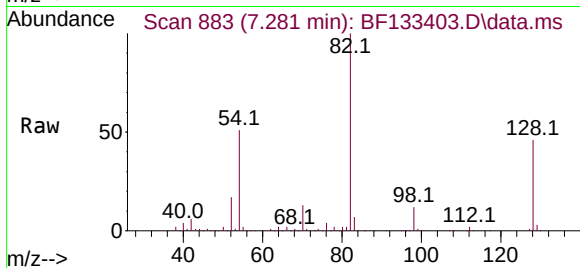
54 51.3 43.0 64.4

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.757 min Scan# 1304

Delta R.T. -0.006 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

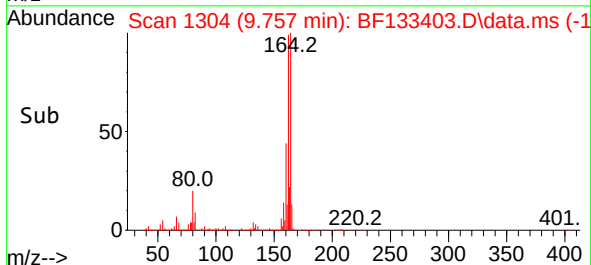
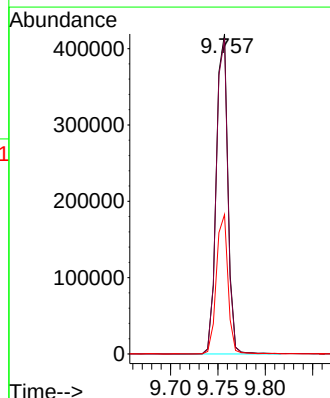
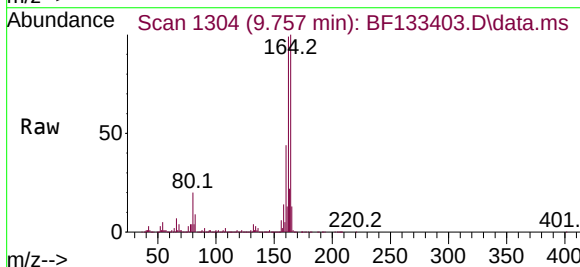
Tgt Ion:164 Resp: 355382

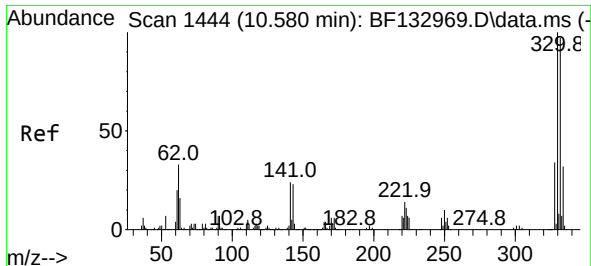
Ion Ratio Lower Upper

164 100

162 98.6 78.7 118.1

160 43.5 35.8 53.6





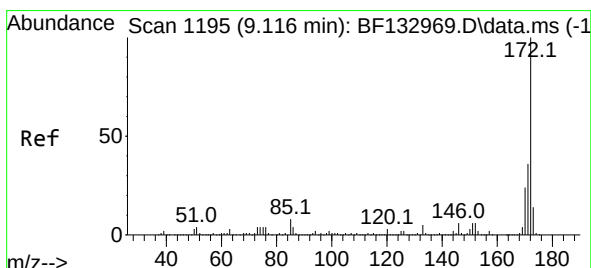
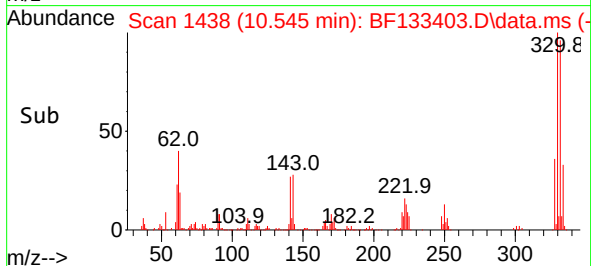
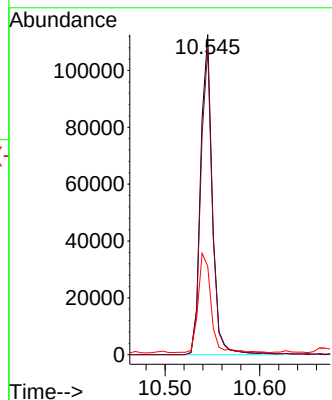
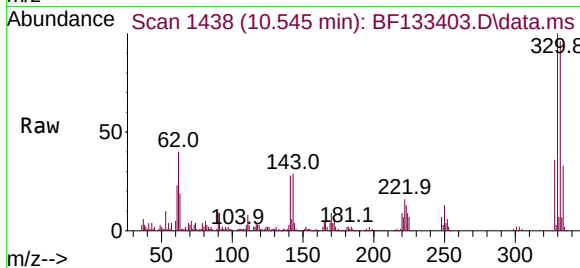
#42
2,4,6-Tribromophenol
Concen: 27.039 ng
RT: 10.545 min Scan# 1444
Delta R.T. -0.006 min
Lab File: BF133403.D
Acq: 16 May 2023 15:35

Instrument :
BNA_F
ClientSampleId :
BU-03-051223RE

Tgt Ion:330 Resp: 9663
Ion Ratio Lower Upper
330 100
332 94.4 77.1 115.7
141 33.9 25.8 38.8

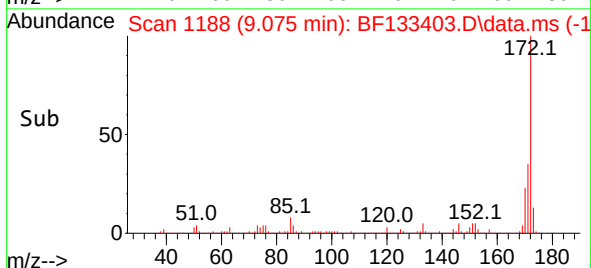
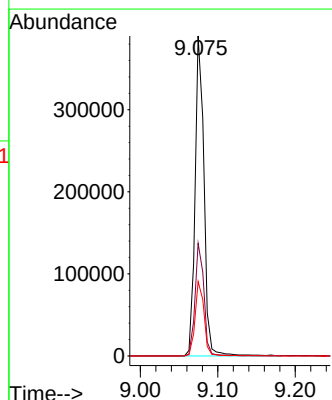
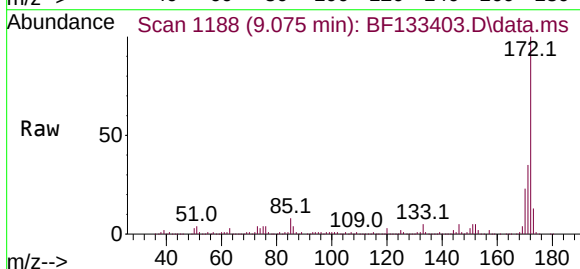
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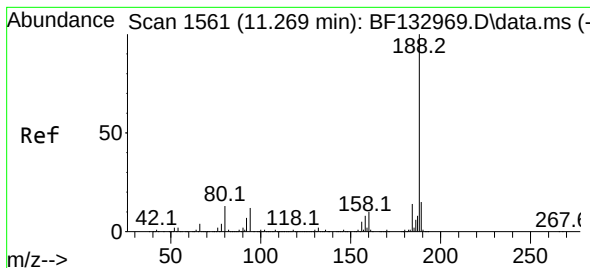
Reviewed By :Christian Giraldo 05/17/2023
Supervised By :Jagrut Upadhyay 05/17/2023



#45
2-Fluorobiphenyl
Concen: 14.698 ng
RT: 9.075 min Scan# 1188
Delta R.T. -0.012 min
Lab File: BF133403.D
Acq: 16 May 2023 15:35

Tgt Ion:172 Resp: 312222
Ion Ratio Lower Upper
172 100
171 35.2 28.8 43.2
170 23.2 19.4 29.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.239 min Scan# 1560

Delta R.T. -0.006 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

Instrument :

BNA_F

ClientSampleId :

BU-03-051223RE

Tgt Ion:188 Resp: 57030

Ion Ratio Lower Upper

188 100

94 10.7 9.7 14.5

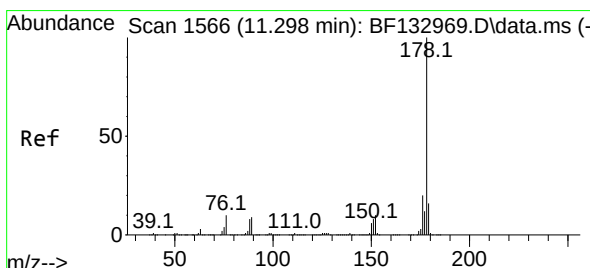
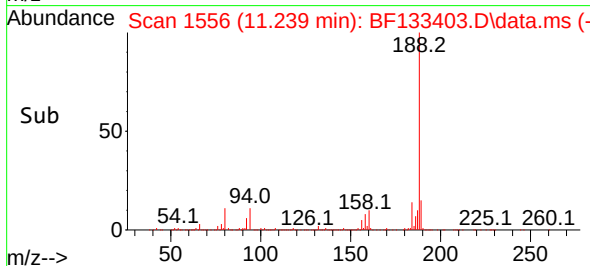
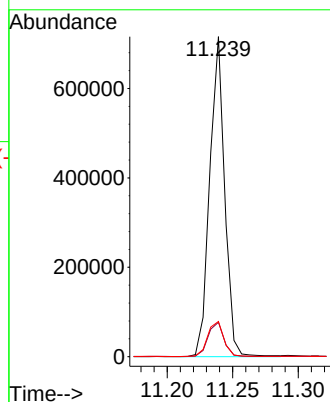
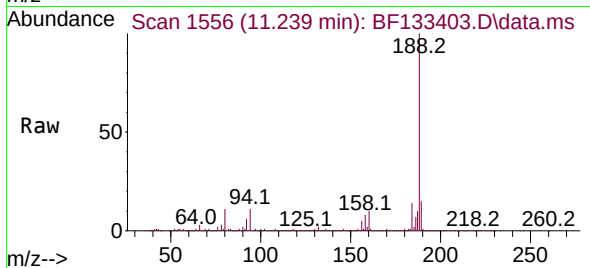
80 11.0 10.4 15.6

Manual Integrations

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Reviewed By :Christian Giraldo 05/17/2023

Supervised By :Jagrut Upadhyay 05/17/2023



#71

Phenanthrene

Concen: 5.215 ng

RT: 11.263 min Scan# 1560

Delta R.T. -0.006 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

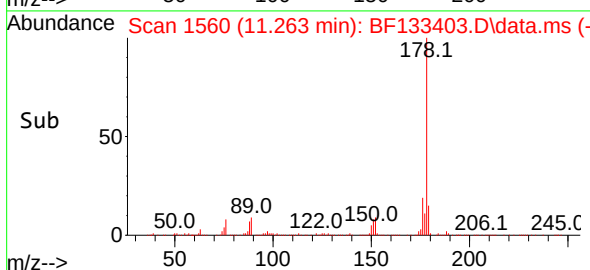
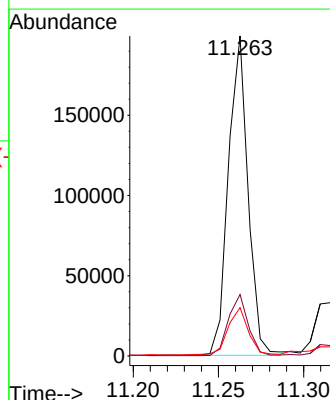
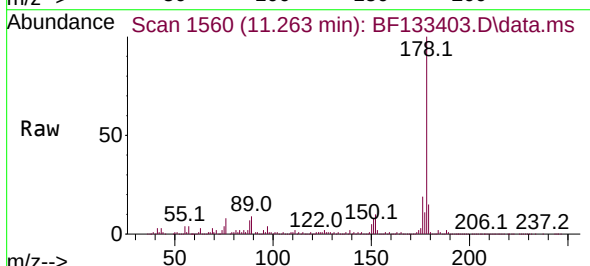
Tgt Ion:178 Resp: 159838

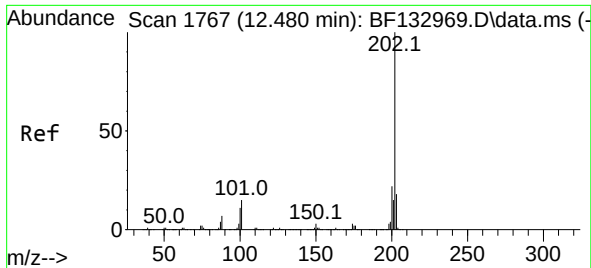
Ion Ratio Lower Upper

178 100

176 19.2 15.9 23.9

179 15.1 12.5 18.7





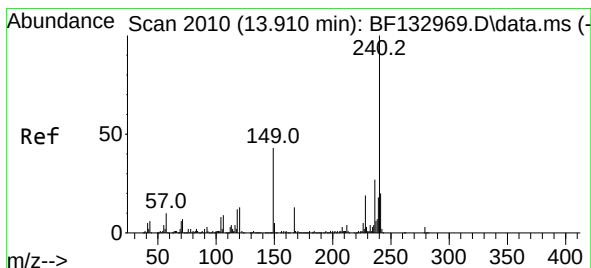
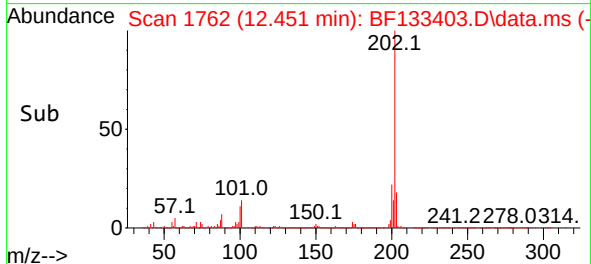
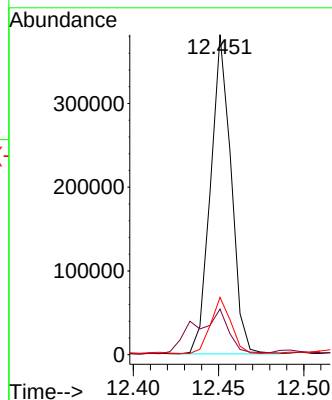
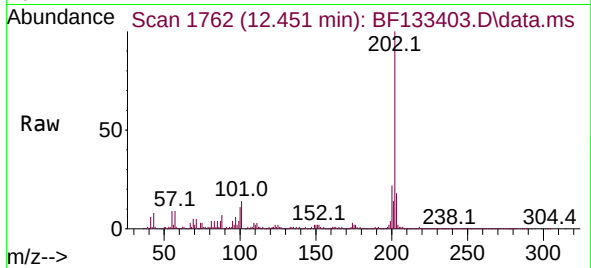
#75
Fluoranthene
Concen: 10.402 ng
RT: 12.451 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133403.D
Acq: 16 May 2023 15:35

Instrument :
BNA_F
ClientSampleId :
BU-03-051223RE

Tgt Ion:202 Resp: 31999
Ion Ratio Lower Upper
202 100
101 14.3 0.0 35.3
203 17.9 0.0 38.1

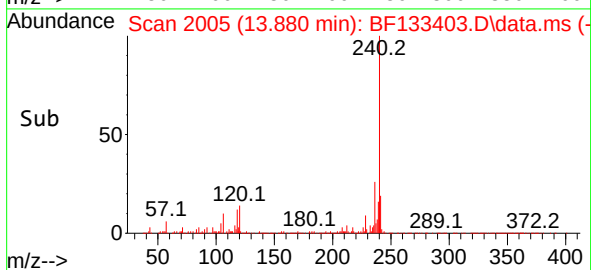
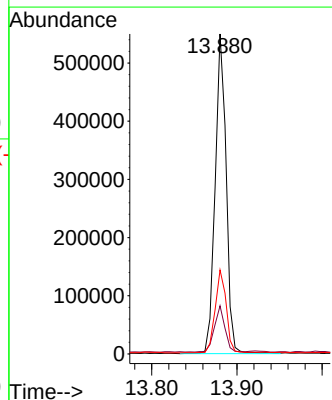
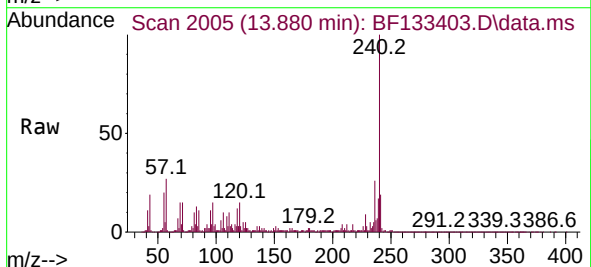
Manual Integrations
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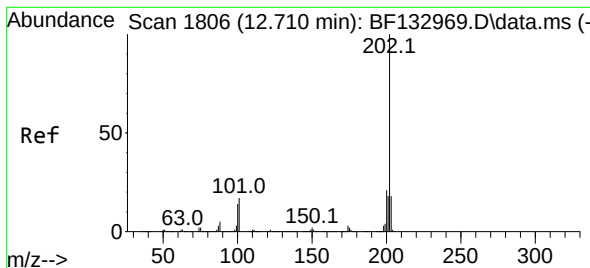
Reviewed By :Christian Giraldo 05/17/2023
Supervised By :Jagrut Upadhyay 05/17/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.880 min Scan# 2005
Delta R.T. -0.006 min
Lab File: BF133403.D
Acq: 16 May 2023 15:35

Tgt Ion:240 Resp: 494007
Ion Ratio Lower Upper
240 100
120 15.0 10.5 15.7
236 26.3 21.5 32.3





#78

Pyrene

Concen: 8.213 ng

RT: 12.680 min Scan# 1801

Delta R.T. -0.006 min

Lab File: BF133403.D

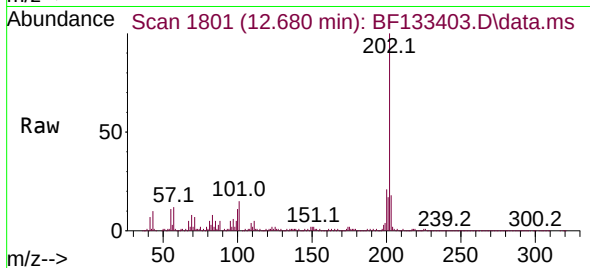
Acq: 16 May 2023 15:35

Instrument :

BNA_F

ClientSampleId :

BU-03-051223RE

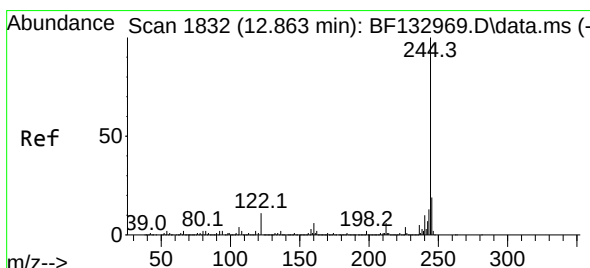
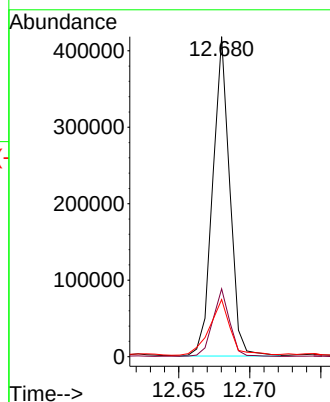
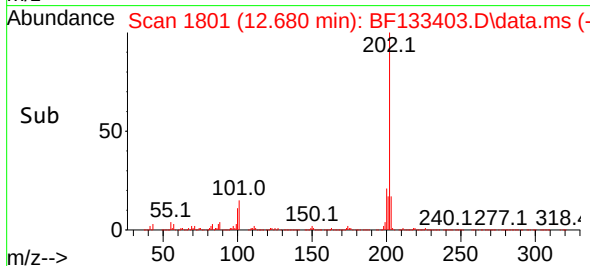


Tgt Ion:	202	Resp:	347804
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.1	25.7
203	17.9	14.1	21.1

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/17/2023



#79

Terphenyl-d14

Concen: 27.834 ng

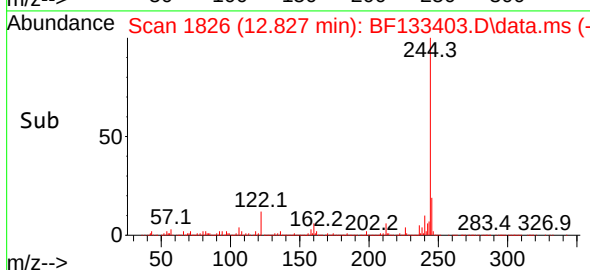
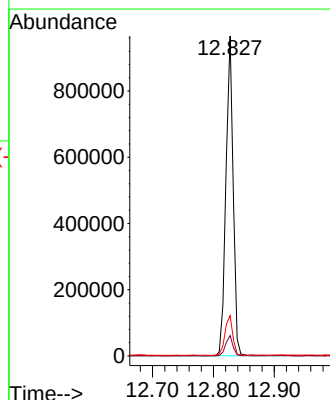
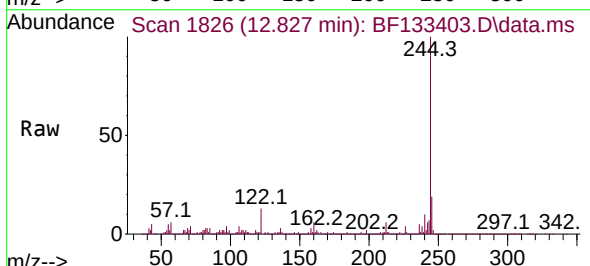
RT: 12.827 min Scan# 1826

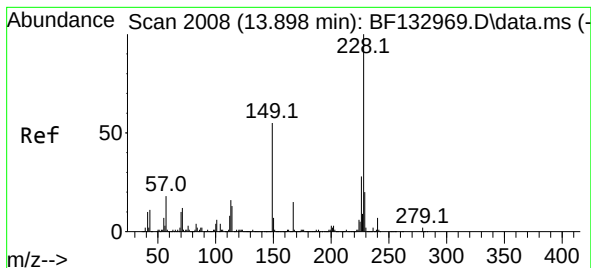
Delta R.T. -0.006 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

Tgt Ion:	244	Resp:	797280
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.1	7.7
122	12.6	8.6	13.0





#81

Benzo(a)anthracene

Concen: 4.860 ng

RT: 13.868 min Scan# 2009

Delta R.T. -0.006 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

Instrument :

BNA_F

ClientSampleId :

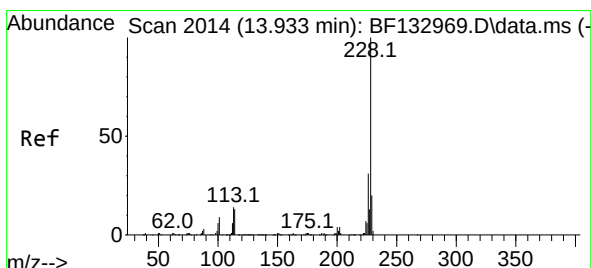
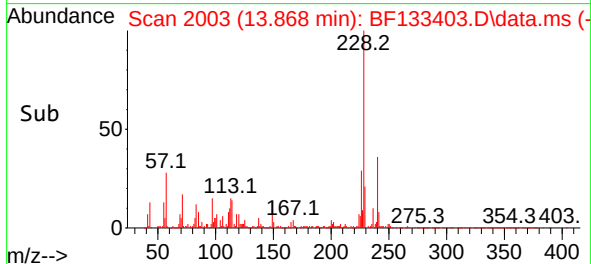
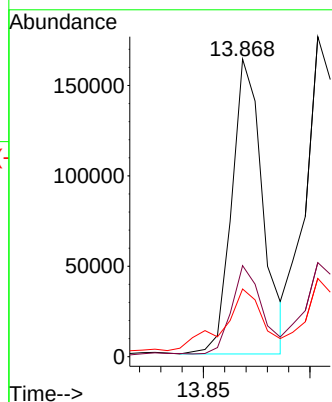
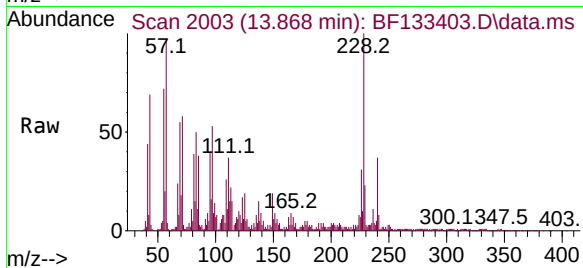
BU-03-051223RE

Tgt Ion:228 Resp: 165088
 Ion Ratio Lower Upper
 228 100
 226 30.6 22.2 33.4
 229 22.8 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/17/2023
 Supervised By :Jagrut Upadhyay 05/17/2023



#83

Chrysene

Concen: 5.327 ng m

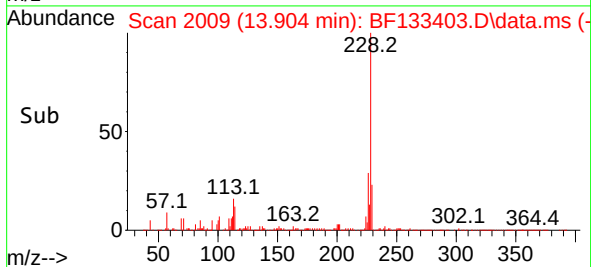
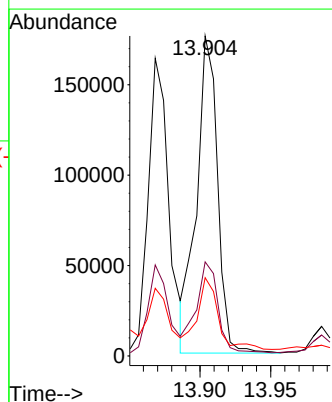
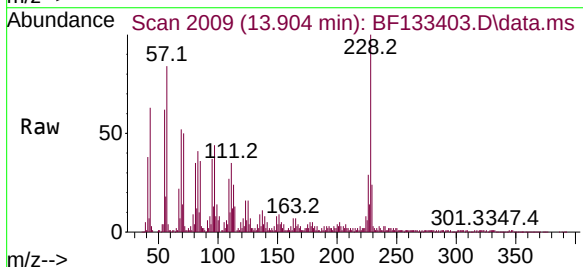
RT: 13.904 min Scan# 2009

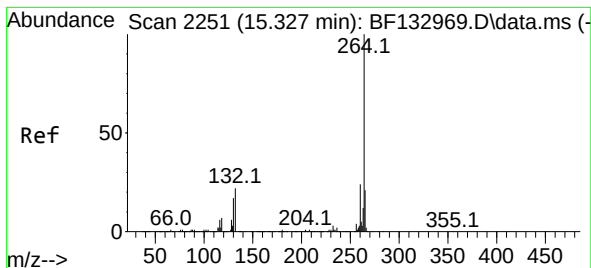
Delta R.T. -0.006 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

Tgt Ion:228 Resp: 180933
 Ion Ratio Lower Upper
 228 100
 226 29.4 24.7 37.1
 229 24.4 16.1 24.1#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.309 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

Instrument :

BNA_F

ClientSampleId :

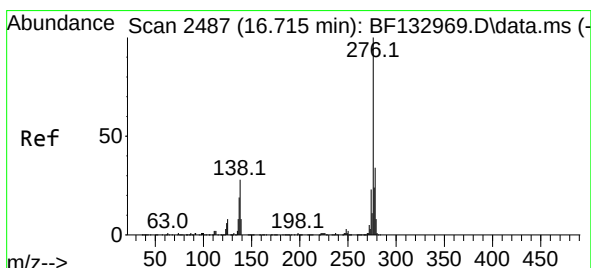
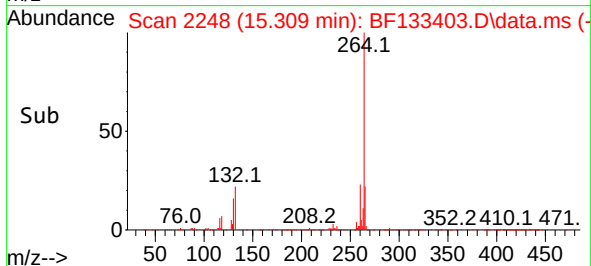
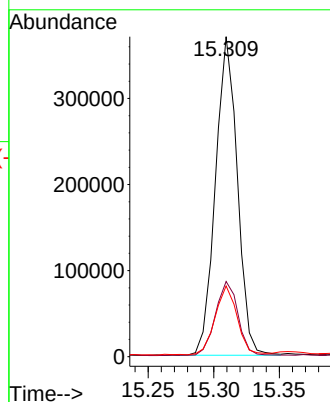
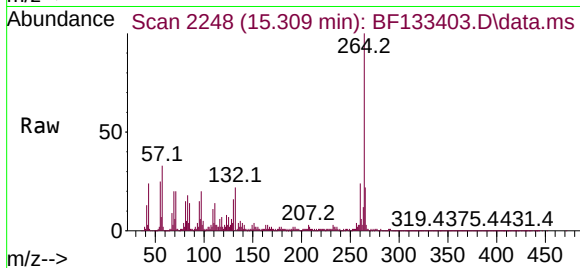
BU-03-051223RE

Tgt Ion:	264	Resp:	42834
Ion Ratio	Lower	Upper	
264	100		
260	23.5	18.8	28.2
265	22.1	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/17/2023
Supervised By :Jagrut Upadhyay 05/17/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.823 ng

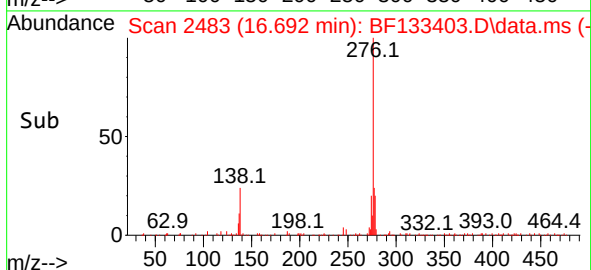
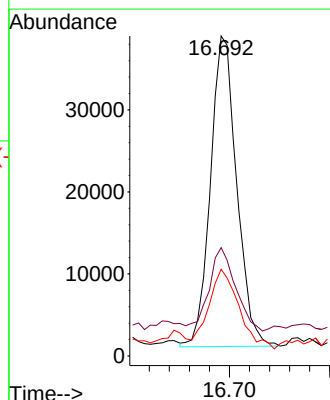
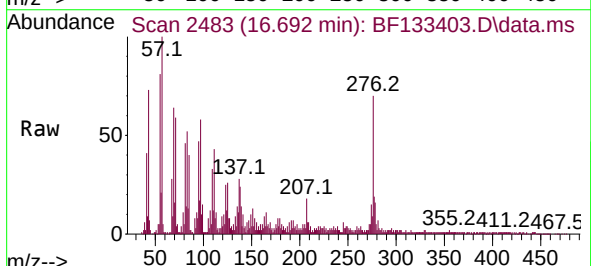
RT: 16.692 min Scan# 2483

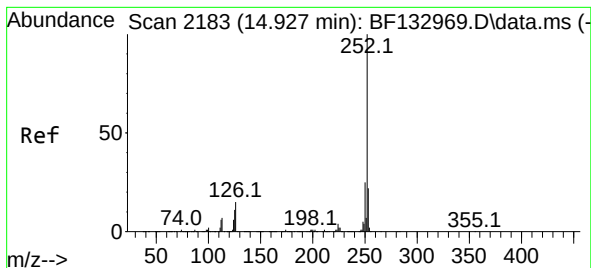
Delta R.T. -0.006 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

Tgt Ion:	276	Resp:	68778
Ion Ratio	Lower	Upper	
276	100		
138	27.1	25.5	38.3
277	29.4	20.4	30.6





#88

Benzo(b)fluoranthene

Concen: 7.312 ng m

RT: 14.904 min Scan# 2179

Delta R.T. 0.006 min

Lab File: BF133403.D

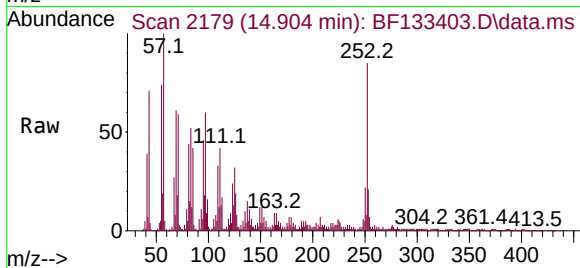
Acq: 16 May 2023 15:35

Instrument :

BNA_F

ClientSampleId :

BU-03-051223RE



Tgt Ion:252 Resp: 199250

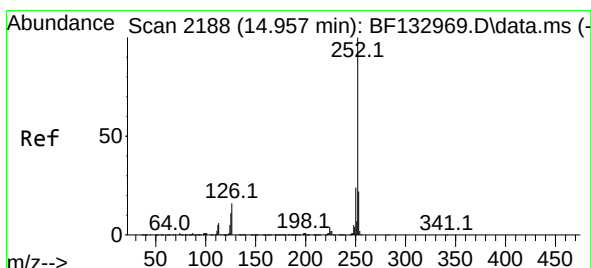
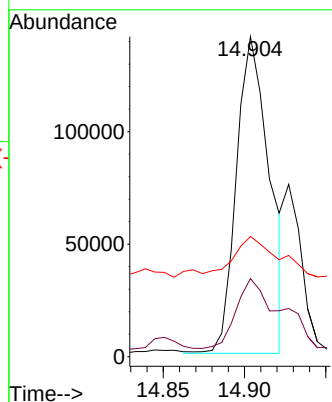
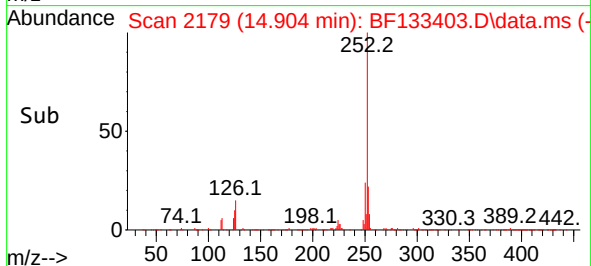
Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.6	26.4
125	37.5	8.9	13.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/17/2023

Supervised By :Jagrut Upadhyay 05/17/2023



#89

Benzo(k)fluoranthene

Concen: 2.040 ng m

RT: 14.927 min Scan# 2183

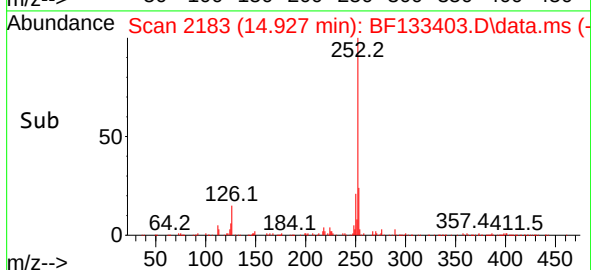
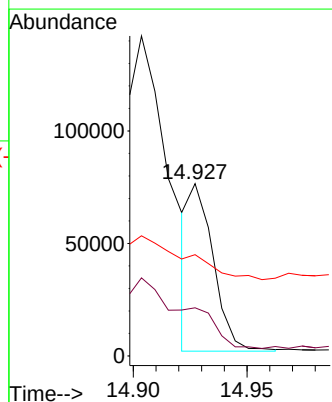
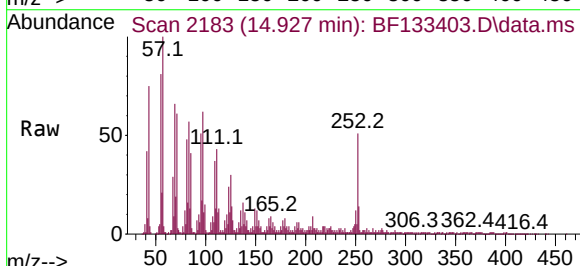
Delta R.T. -0.000 min

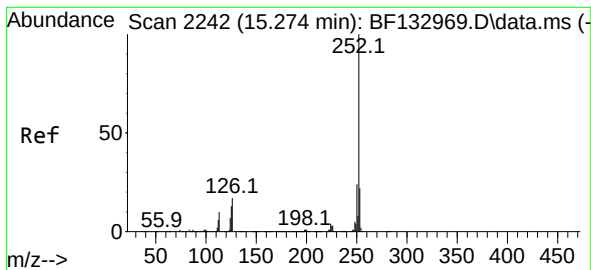
Lab File: BF133403.D

Acq: 16 May 2023 15:35

Tgt Ion:252 Resp: 55108

Ion	Ratio	Lower	Upper
252	100		
253	28.0	17.7	26.5#
125	58.8	9.0	13.4#





#90

Benzo(a)pyrene

Concen: 5.020 ng

RT: 15.251 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

Instrument :

BNA_F

ClientSampleId :

BU-03-051223RE

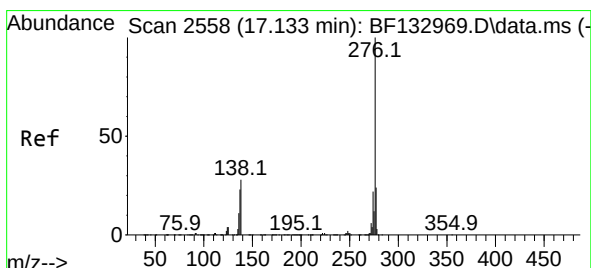
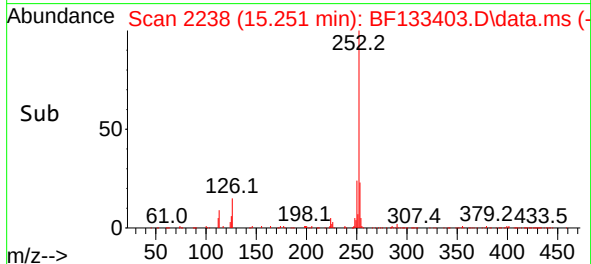
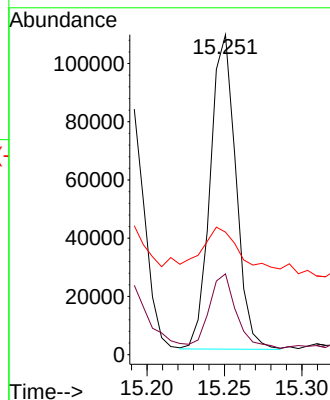
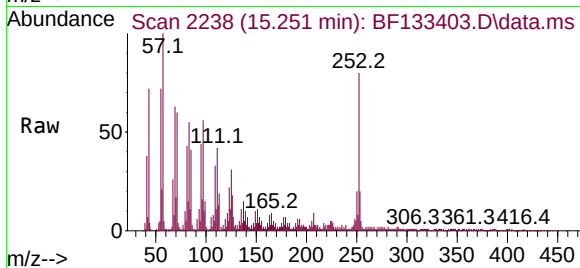
Tgt Ion:252 Resp: 124514

Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.7	26.5
125	38.3	10.5	15.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/17/2023
Supervised By :Jagrut Upadhyay 05/17/2023



#92

Benzo(g,h,i)perylene

Concen: 3.581 ng

RT: 17.109 min Scan# 2554

Delta R.T. -0.000 min

Lab File: BF133403.D

Acq: 16 May 2023 15:35

Tgt Ion:276 Resp: 71838

Ion	Ratio	Lower	Upper
276	100		
277	27.3	19.4	29.0
138	33.8	22.7	34.1

