

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051523\
 Data File : BF133393.D
 Acq On : 15 May 2023 20:26
 Operator : CG\JU
 Sample : 02784-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BU-03-051223

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/16/2023
 Supervised By : Yogesh Patel 05/16/2023

Quant Time: May 16 03:15:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 11 16:40:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.716	152	201636	20.000	ng	0.00
21) Naphthalene-d8	8.004	136	752317	20.000	ng	0.00
39) Acenaphthene-d10	9.757	164	335843	20.000	ng	0.00
64) Phenanthrene-d10	11.239	188	570444	20.000	ng	0.00
76) Chrysene-d12	13.880	240	417660	20.000	ng	0.00
86) Perylene-d12	15.304	264	336321	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.322	112	316756	23.731	ng	0.00
7) Phenol-d6	6.357	99	356534	21.520	ng	-0.01
23) Nitrobenzene-d5	7.281	82	167387	12.010	ng	-0.01
42) 2,4,6-Tribromophenol	10.545	330	99037	29.322	ng	0.00
45) 2-Fluorobiphenyl	9.075	172	292753	14.583	ng	-0.01
79) Terphenyl-d14	12.827	244	790782	32.654	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.263	178	161291	5.261	ng	100
75) Fluoranthene	12.451	202	315555	10.255	ng	98
78) Pyrene	12.680	202	335316	9.366	ng	98
81) Benzo(a)anthracene	13.868	228	142611	4.965	ng	96
83) Chrysene	13.904	228	148292	5.164	ng	96
87) Indeno(1,2,3-cd)pyrene	16.686	276	56568	2.957	ng	97
88) Benzo(b)fluoranthene	14.898	252	143903m	6.726	ng	
89) Benzo(k)fluoranthene	14.921	252	48501m	2.287	ng	
90) Benzo(a)pyrene	15.245	252	95414	4.899	ng	# 66
92) Benzo(g,h,i)perylene	17.104	276	60121	3.817	ng	# 90

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

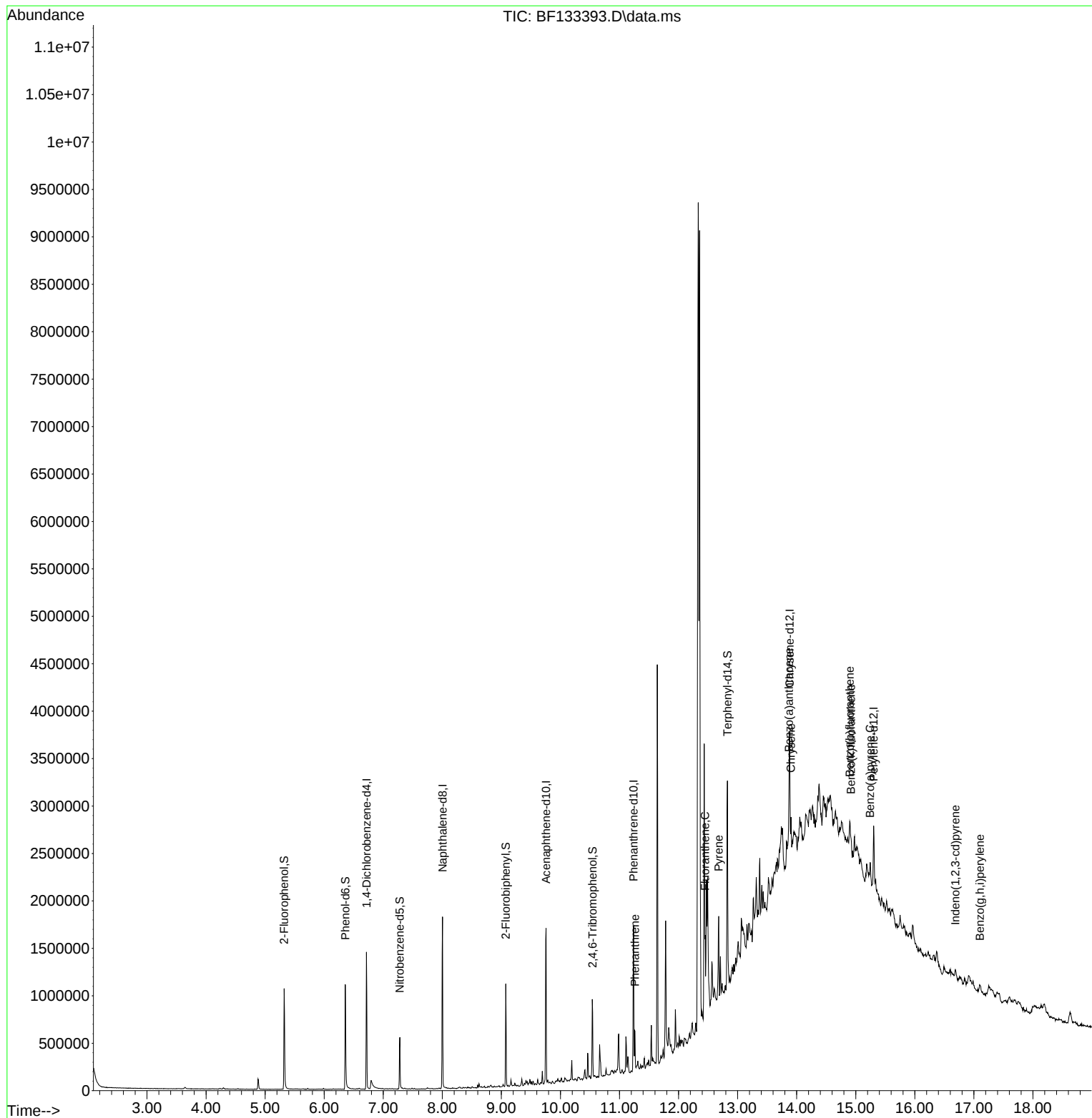
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051523\
Data File : BF133393.D
Acq On : 15 May 2023 20:26
Operator : CG\JU
Sample : 02784-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

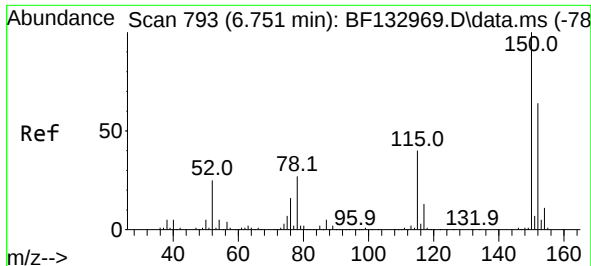
Instrument :
BNA_F
ClientSampleId :
BU-03-051223

Quant Time: May 16 03:15:12 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu May 11 16:40:17 2023
Response via : Initial Calibration

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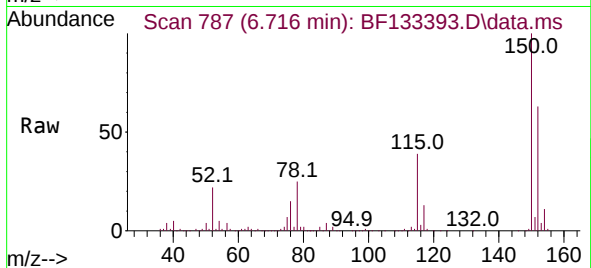
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.716 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

Instrument :

BNA_F

ClientSampleId :

BU-03-051223

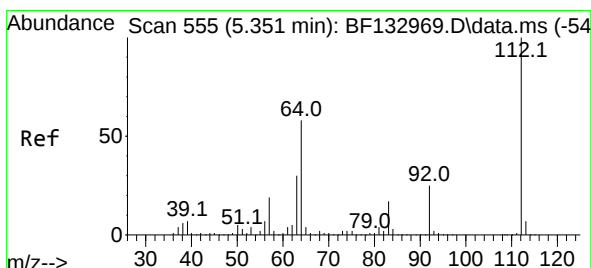
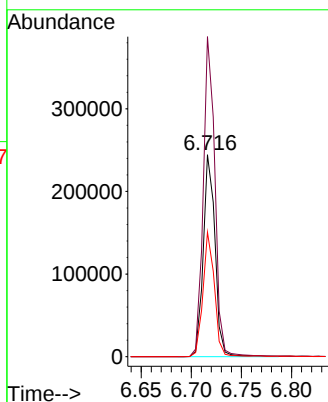
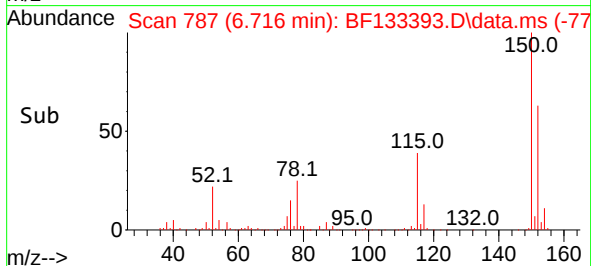


Tgt Ion:152 Resp: 201630
Ion Ratio Lower Upper
152 100
150 158.5 124.8 187.2
115 61.7 49.9 74.9

Manual Integrations

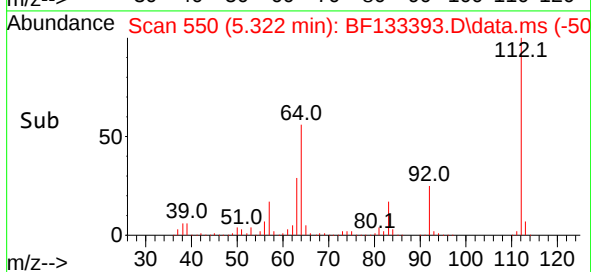
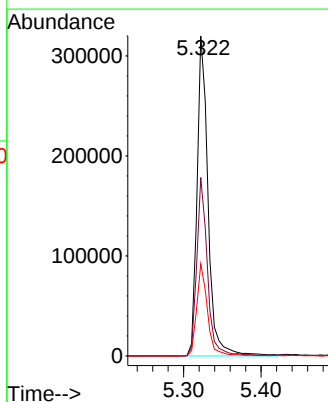
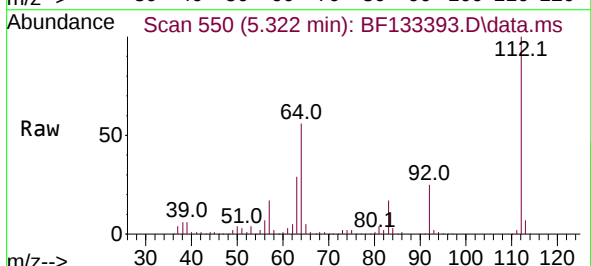
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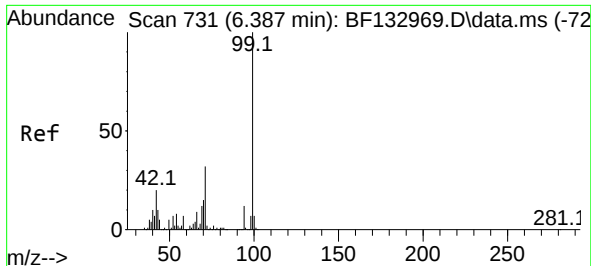
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#5
2-Fluorophenol
Concen: 23.731 ng
RT: 5.322 min Scan# 550
Delta R.T. -0.006 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

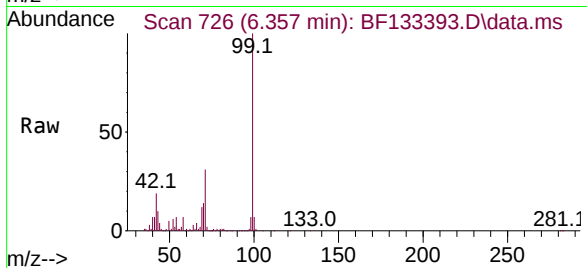
Tgt Ion:112 Resp: 316756
Ion Ratio Lower Upper
112 100
64 55.8 46.8 70.2
63 28.8 23.8 35.8





#7
Phenol-d6
Concen: 21.520 ng
RT: 6.357 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

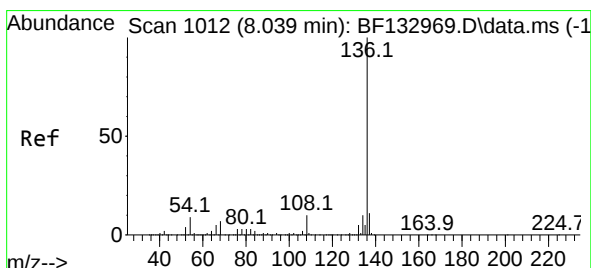
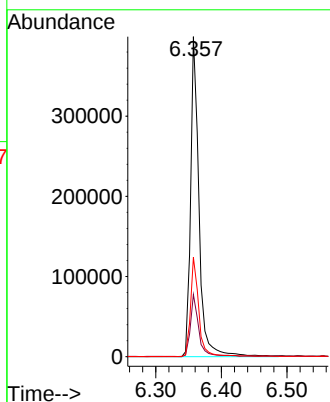
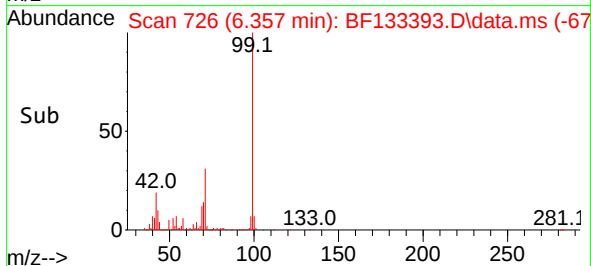
Instrument :
BNA_F
ClientSampleId :
BU-03-051223



Tgt Ion: 99 Resp: 356534
Ion Ratio Lower Upper
99 100
42 19.4 16.3 24.5
71 31.0 25.6 38.4

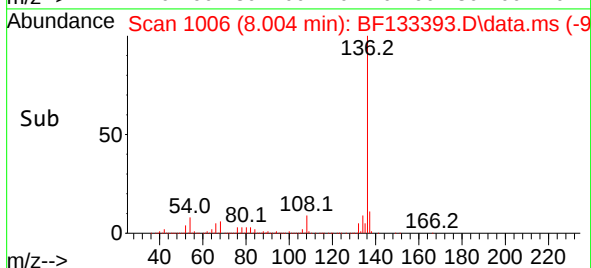
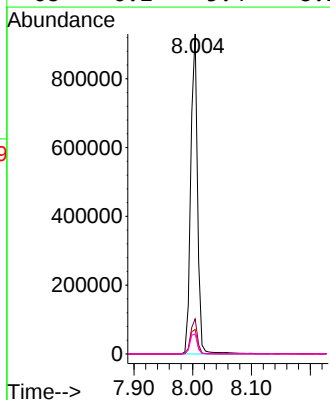
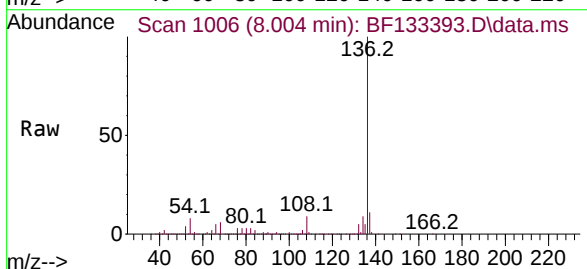
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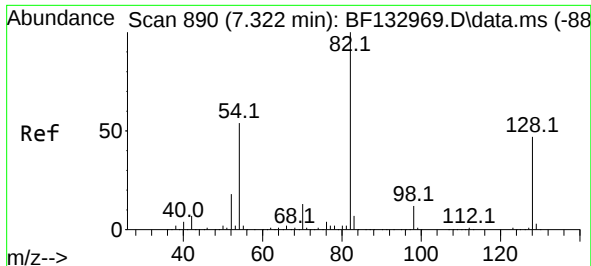
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.004 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

Tgt Ion:136 Resp: 752317
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 7.6 7.0 10.4
68 6.2 5.4 8.2





#23

Nitrobenzene-d5

Concen: 12.010 ng

RT: 7.281 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF133393.D

Acq: 15 May 2023 20:26

Instrument :

BNA_F

ClientSampleId :

BU-03-051223

Tgt Ion: 82 Resp: 16738

Ion Ratio Lower Upper

82 100

128 48.7 37.7 56.5

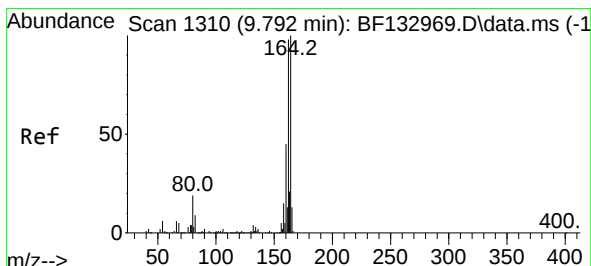
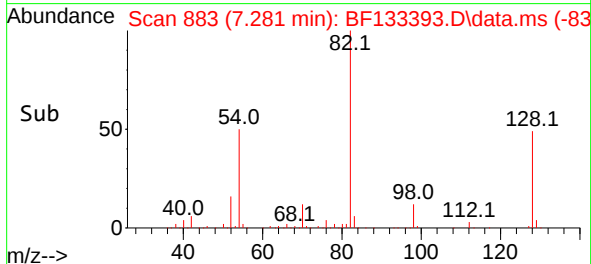
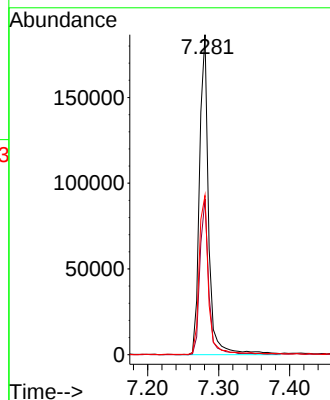
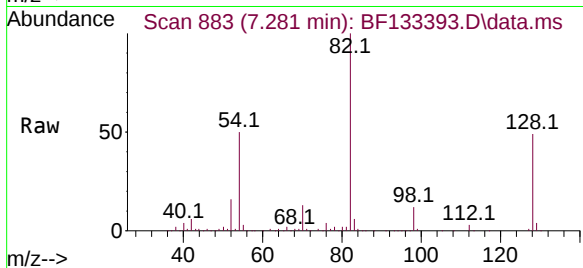
54 49.8 43.0 64.4

Manual Integrations

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Reviewed By :Christian Giraldo 05/16/2023

Supervised By :Yogesh Patel 05/16/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.757 min Scan# 1304

Delta R.T. 0.000 min

Lab File: BF133393.D

Acq: 15 May 2023 20:26

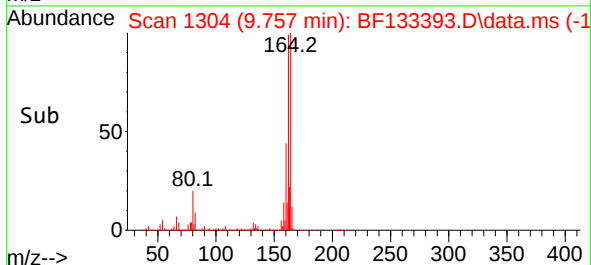
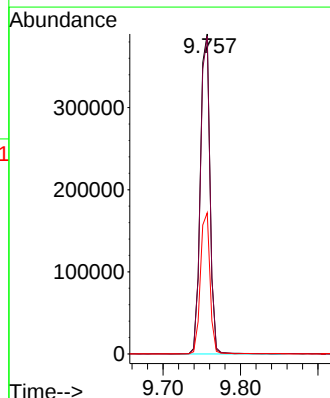
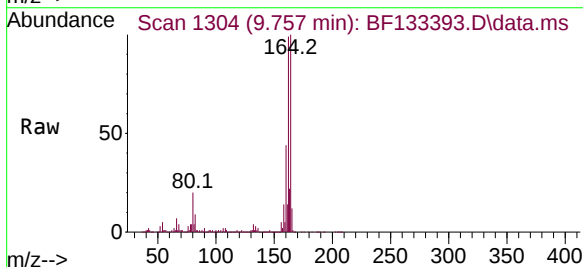
Tgt Ion:164 Resp: 335843

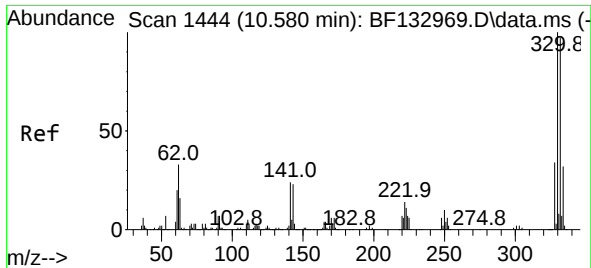
Ion Ratio Lower Upper

164 100

162 99.2 78.7 118.1

160 44.1 35.8 53.6





#42
2,4,6-Tribromophenol
Concen: 29.322 ng
RT: 10.545 min Scan# 1444
Delta R.T. -0.006 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

Instrument :

BNA_F

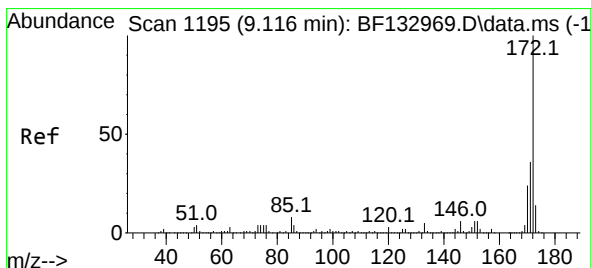
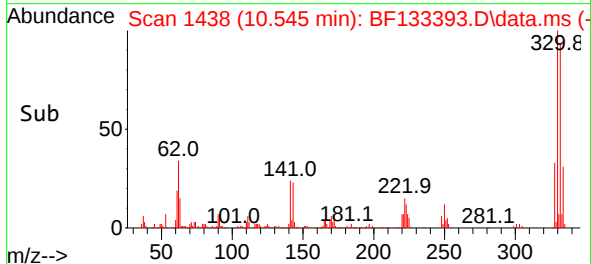
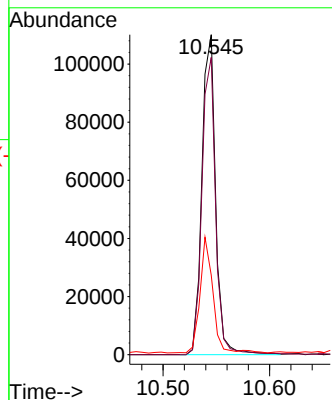
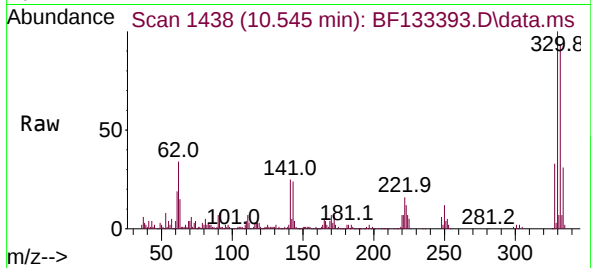
ClientSampleId :

BU-03-051223

Tgt Ion:330 Resp: 9903
Ion Ratio Lower Upper
330 100
332 93.2 77.1 115.7
141 32.8 25.8 38.8

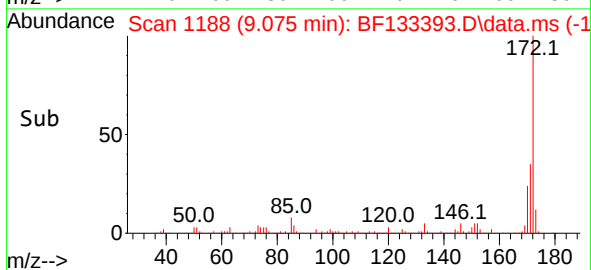
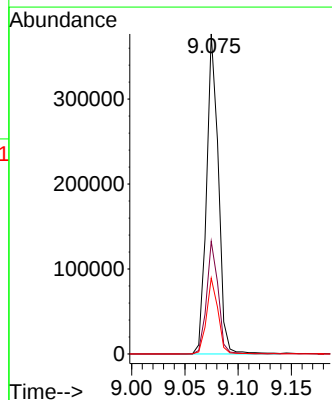
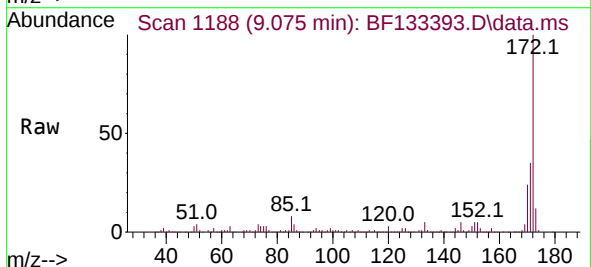
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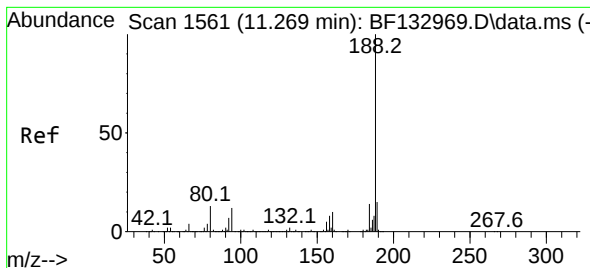
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#45
2-Fluorobiphenyl
Concen: 14.583 ng
RT: 9.075 min Scan# 1188
Delta R.T. -0.012 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

Tgt Ion:172 Resp: 292753
Ion Ratio Lower Upper
172 100
171 35.2 28.8 43.2
170 23.7 19.4 29.2





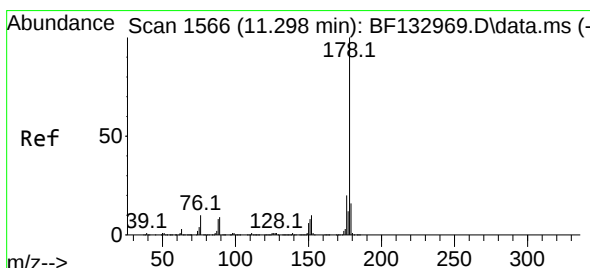
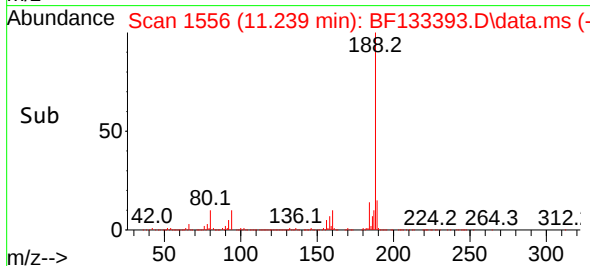
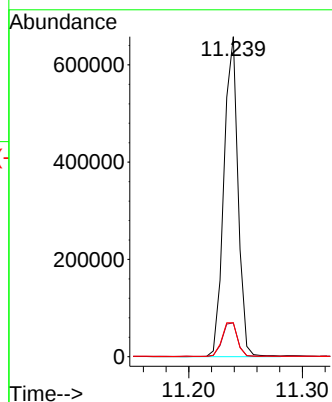
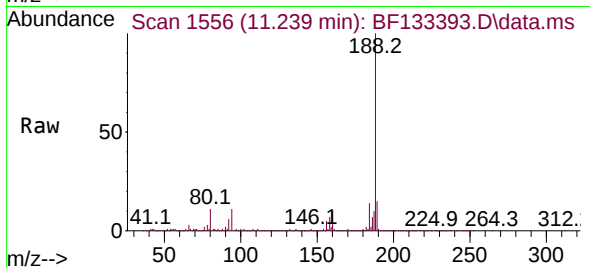
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.239 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

Instrument :
BNA_F
ClientSampleId :
BU-03-051223

Tgt Ion:188 Resp: 570444
Ion Ratio Lower Upper
188 100
94 10.6 9.7 14.5
80 10.6 10.4 15.6

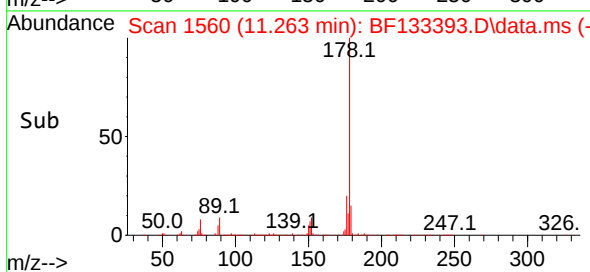
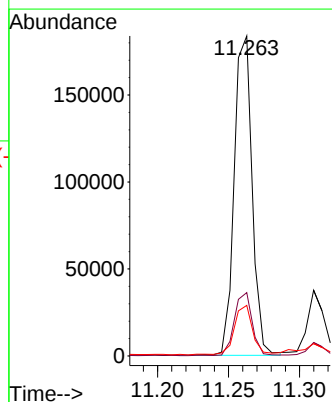
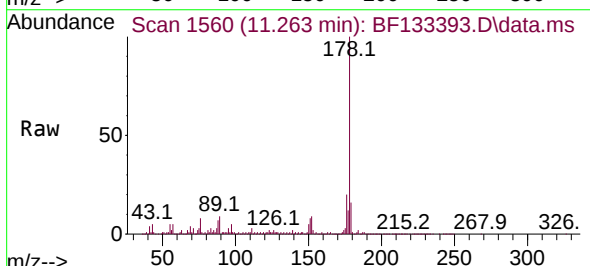
Manual Integrations
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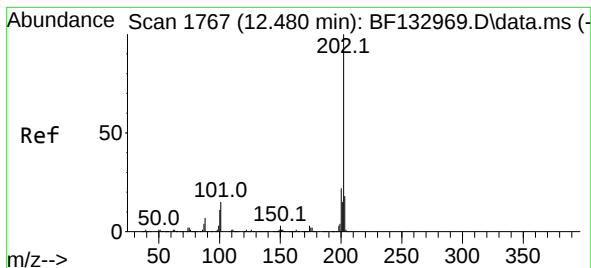
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#71
Phenanthrene
Concen: 5.261 ng
RT: 11.263 min Scan# 1560
Delta R.T. -0.006 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

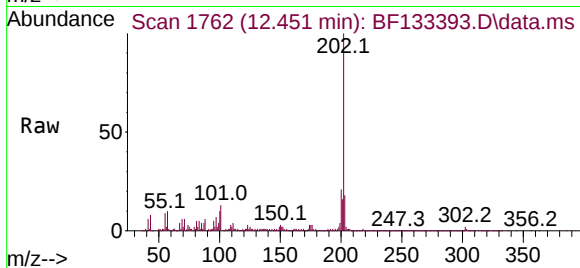
Tgt Ion:178 Resp: 161291
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.8 12.5 18.7





#75
Fluoranthene
Concen: 10.255 ng
RT: 12.451 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

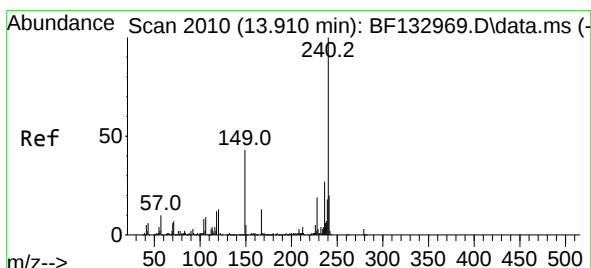
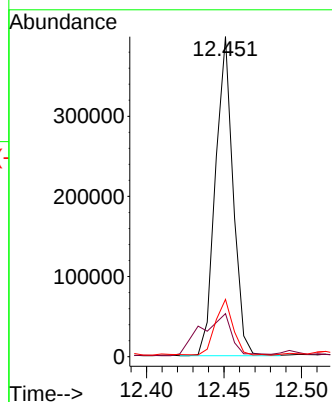
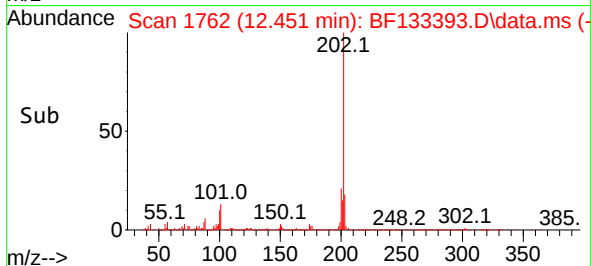
Instrument :
BNA_F
ClientSampleId :
BU-03-051223



Tgt Ion:202 Resp: 31555
Ion Ratio Lower Upper
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101 13.4 0.0 35.3
203 17.9 0.0 38.1

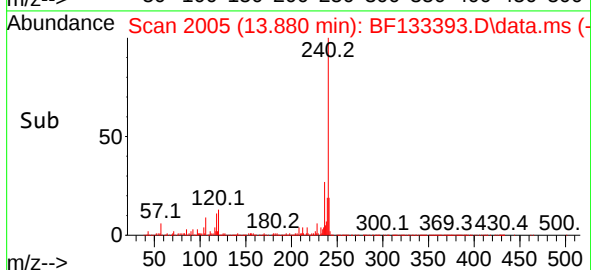
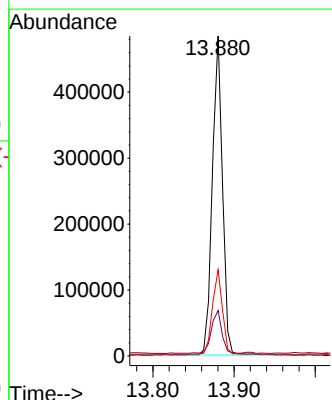
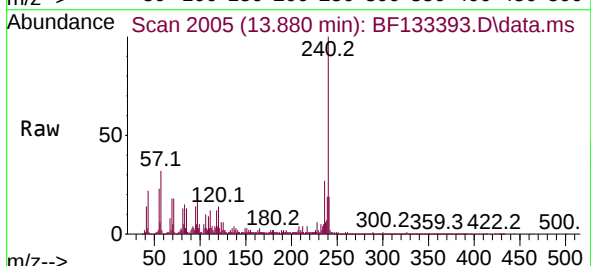
Manual Integrations
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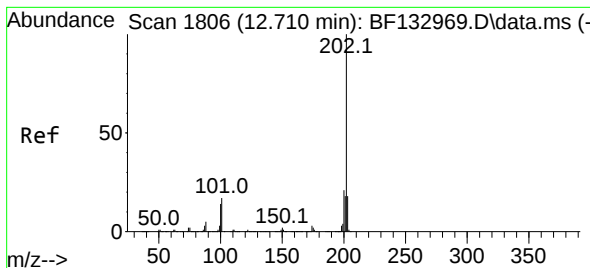
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.880 min Scan# 2005
Delta R.T. 0.000 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

Tgt Ion:240 Resp: 417660
Ion Ratio Lower Upper
240 100
120 14.2 10.5 15.7
236 26.9 21.5 32.3





#78

Pyrene

Concen: 9.366 ng

RT: 12.680 min Scan# 1801

Delta R.T. 0.000 min

Lab File: BF133393.D

Acq: 15 May 2023 20:26

Instrument :

BNA_F

ClientSampleId :

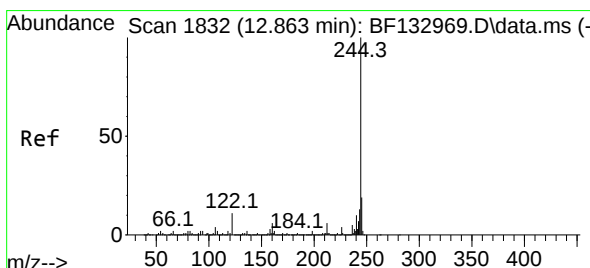
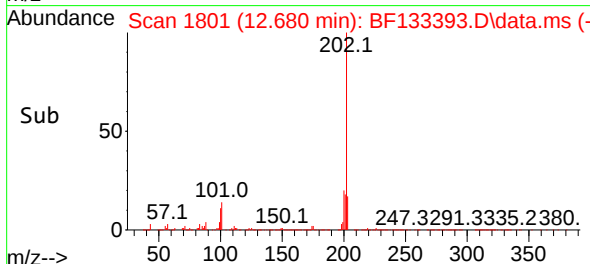
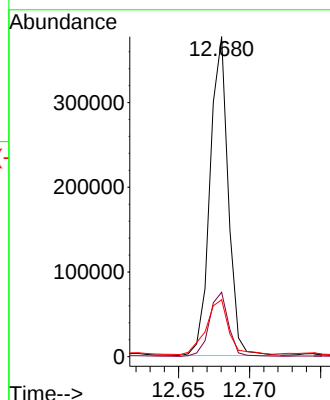
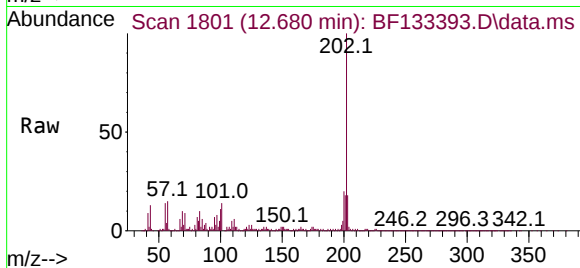
BU-03-051223

Tgt Ion:202 Resp: 335310
 Ion Ratio Lower Upper
 202 100
 200 20.2 17.1 25.7
 203 17.8 14.1 21.1

Manual Integrations

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Reviewed By :Christian Giraldo 05/16/2023
 Supervised By :Yogesh Patel 05/16/2023



#79

Terphenyl-d14

Concen: 32.654 ng

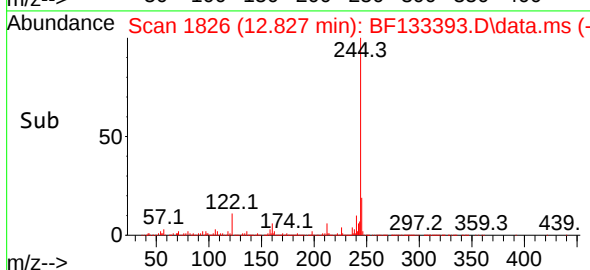
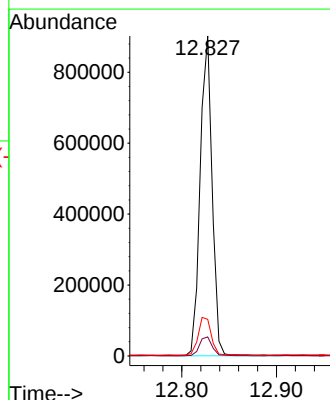
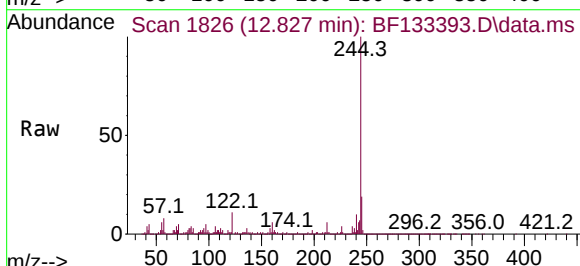
RT: 12.827 min Scan# 1826

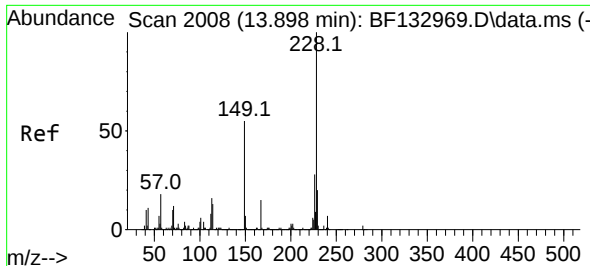
Delta R.T. 0.000 min

Lab File: BF133393.D

Acq: 15 May 2023 20:26

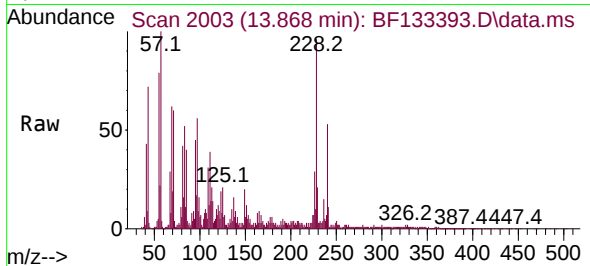
Tgt Ion:244 Resp: 790782
 Ion Ratio Lower Upper
 244 100
 212 6.0 5.1 7.7
 122 11.5 8.6 13.0





#81
Benzo(a)anthracene
Concen: 4.965 ng
RT: 13.868 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

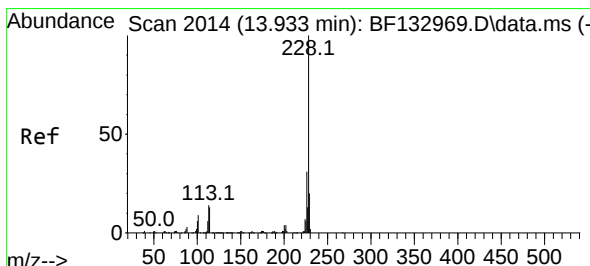
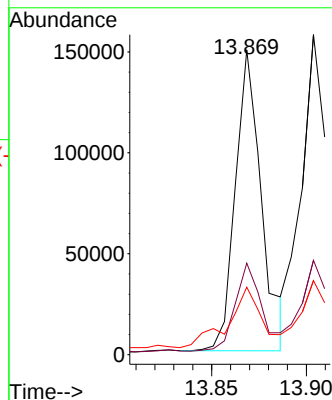
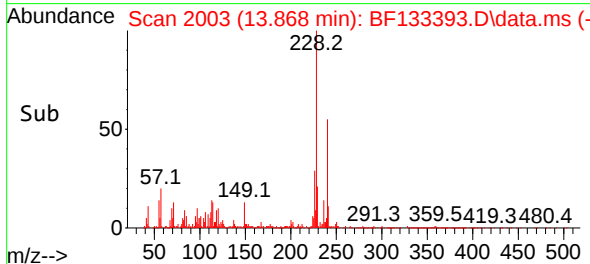
Instrument :
BNA_F
ClientSampleId :
BU-03-051223



Tgt Ion:228 Resp: 14261
Ion Ratio Lower Upper
228 100
226 30.1 22.2 33.4
229 22.2 16.0 24.0

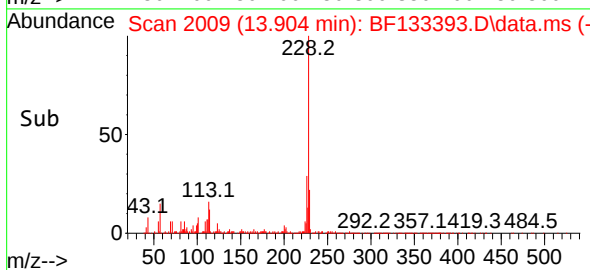
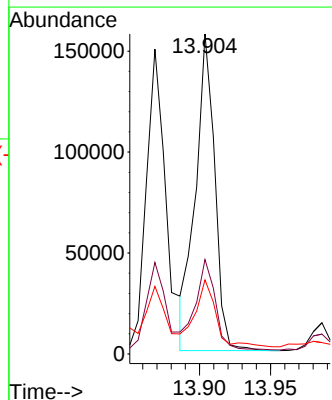
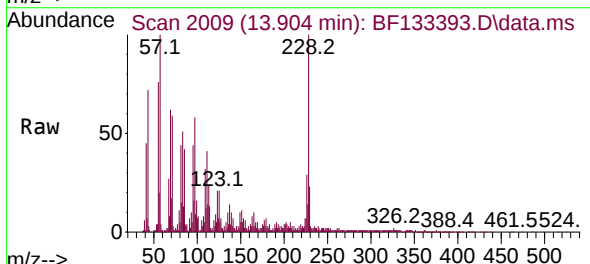
Manual Integrations
APPROVED

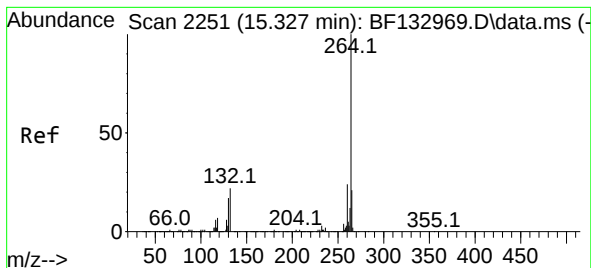
Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#83
Chrysene
Concen: 5.164 ng
RT: 13.904 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF133393.D
Acq: 15 May 2023 20:26

Tgt Ion:228 Resp: 148292
Ion Ratio Lower Upper
228 100
226 29.5 24.7 37.1
229 23.2 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.304 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF133393.D

Acq: 15 May 2023 20:26

Instrument :

BNA_F

ClientSampleId :

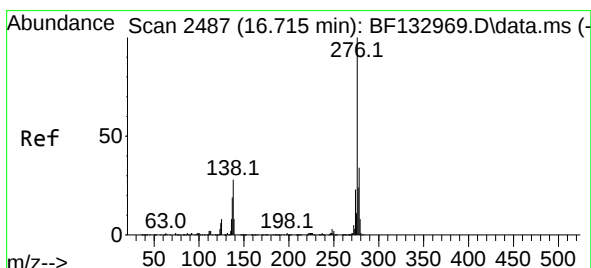
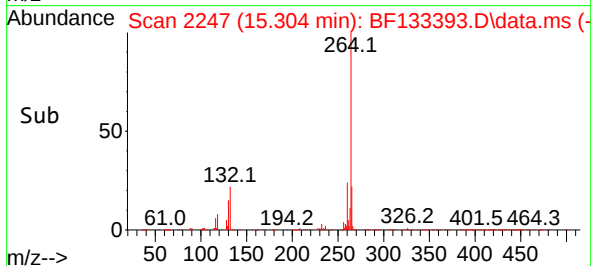
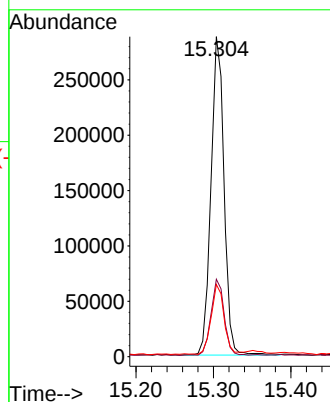
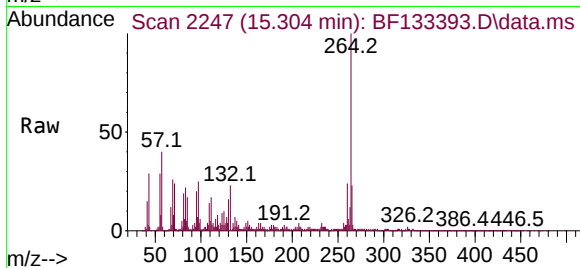
BU-03-051223

Tgt Ion:	264	Resp:	33632
Ion Ratio	Lower	Upper	
264	100		
260	24.2	18.8	28.2
265	22.6	17.0	25.4

Manual Integrations

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Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.957 ng

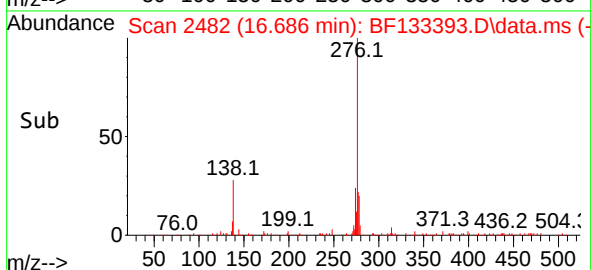
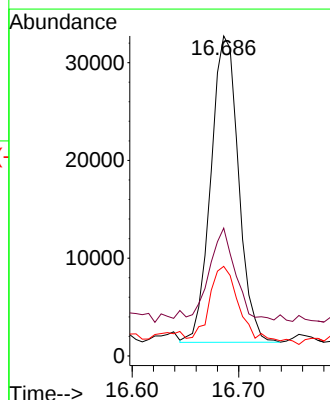
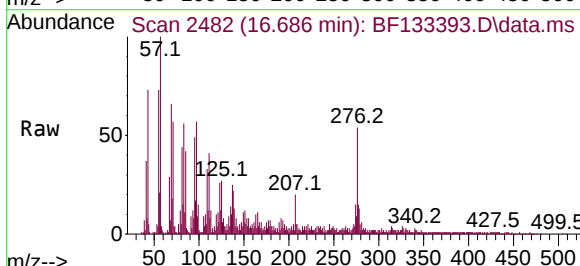
RT: 16.686 min Scan# 2482

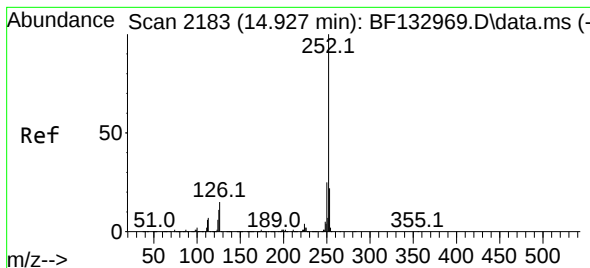
Delta R.T. 0.006 min

Lab File: BF133393.D

Acq: 15 May 2023 20:26

Tgt Ion:	276	Resp:	56568
Ion Ratio	Lower	Upper	
276	100		
138	32.0	25.5	38.3
277	28.9	20.4	30.6





#88

Benzo(b)fluoranthene

Concen: 6.726 ng m

RT: 14.898 min Scan# 2183

Delta R.T. 0.006 min

Lab File: BF133393.D

Acq: 15 May 2023 20:26

Instrument :

BNA_F

ClientSampleId :

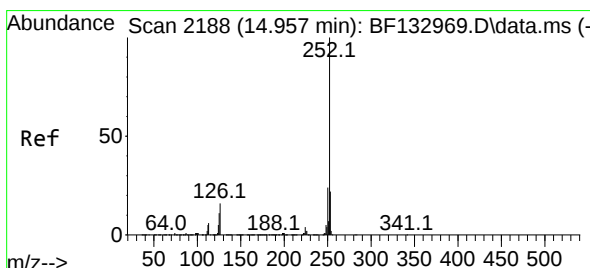
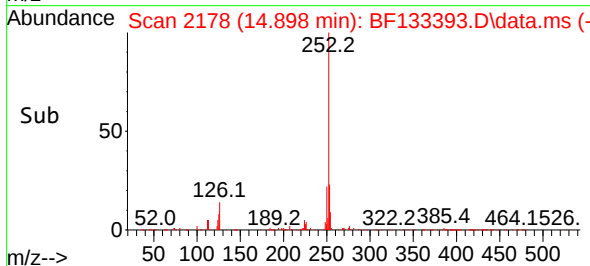
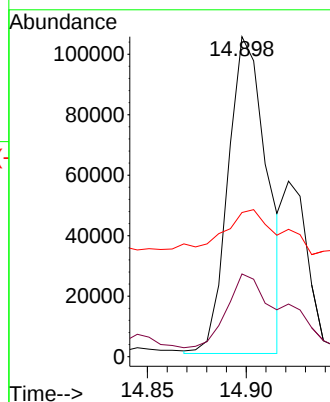
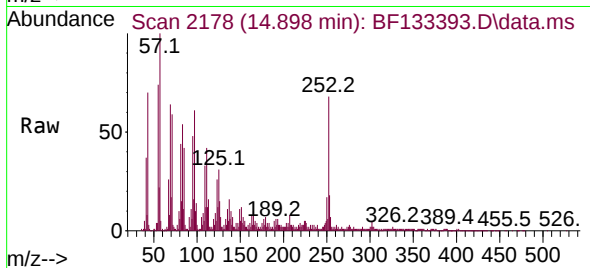
BU-03-051223

Tgt Ion:	252	Resp:	14390
Ion Ratio	Lower	Upper	
252	100		
253	25.8	17.6	26.4
125	45.1	8.9	13.3

Manual Integrations

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Reviewed By :Christian Giraldo 05/16/2023
Supervised By :Yogesh Patel 05/16/2023



#89

Benzo(k)fluoranthene

Concen: 2.287 ng m

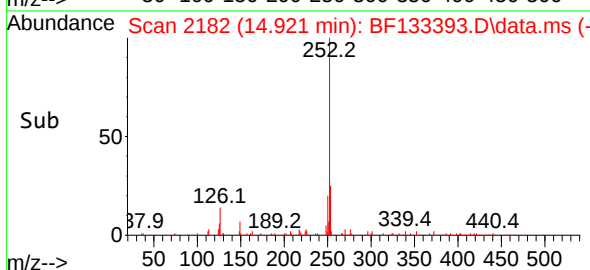
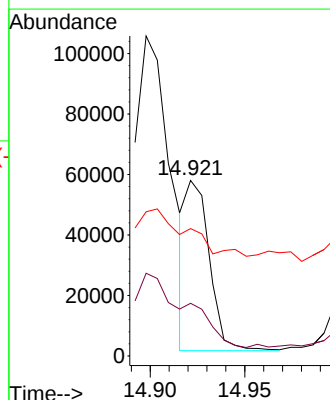
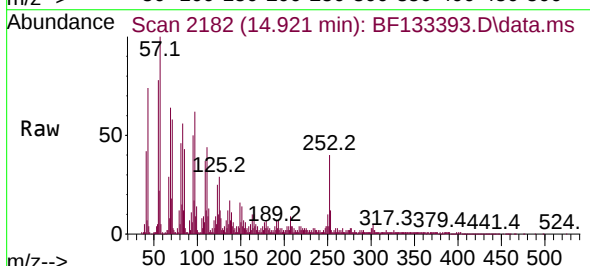
RT: 14.921 min Scan# 2182

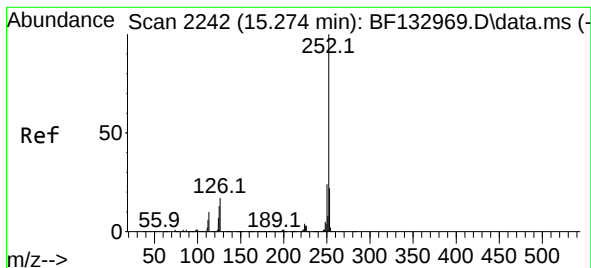
Delta R.T. 0.000 min

Lab File: BF133393.D

Acq: 15 May 2023 20:26

Tgt Ion:	252	Resp:	48501
Ion Ratio	Lower	Upper	
252	100		
253	29.9	17.7	26.5#
125	72.5	9.0	13.4#





#90

Benzo(a)pyrene

Concen: 4.899 ng

RT: 15.245 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF133393.D

Acq: 15 May 2023 20:26

Instrument :

BNA_F

ClientSampleId :

BU-03-051223

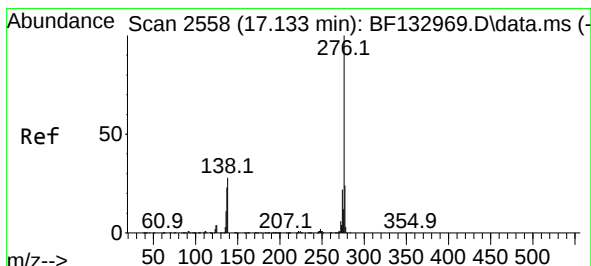
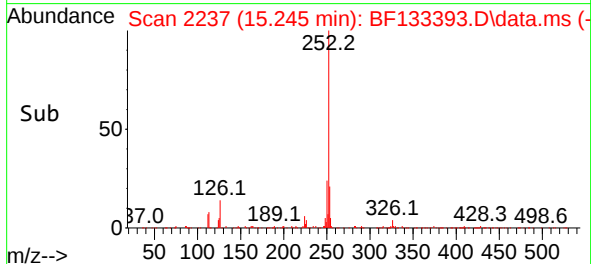
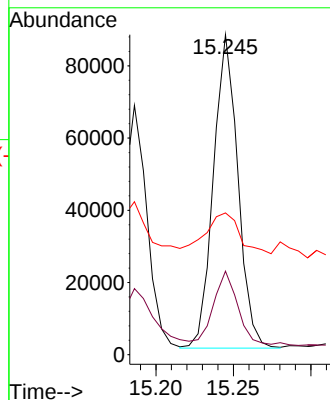
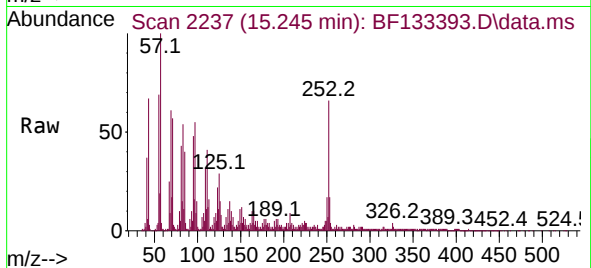
Tgt Ion:	252	Resp:	95414
Ion Ratio	Lower	Upper	
252	100		
253	26.1	17.7	26.5
125	44.3	10.5	15.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/16/2023

Supervised By :Yogesh Patel 05/16/2023



#92

Benzo(g,h,i)perylene

Concen: 3.817 ng

RT: 17.104 min Scan# 2553

Delta R.T. 0.012 min

Lab File: BF133393.D

Acq: 15 May 2023 20:26

Tgt Ion:	276	Resp:	60121
Ion Ratio	Lower	Upper	
276	100		
277	28.6	19.4	29.0
138	34.5	22.7	34.1

