

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031722\
 Data File : BF127383.D
 Acq On : 17 Mar 2022 18:43
 Operator : CG\JU
 Sample : N1953-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-RBR-200033

Quant Time: Mar 18 04:40:20 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031022.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 10 16:51:53 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Christian
 Giraldo
 03/18/2022

Supervised By :Jagrut
 Upadhyay
 03/18/2022

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							03/18/2022
1) 1,4-Dichlorobenzene-d4	6.863	152	106047	20.000	ng	0.00	Supervised By :Jagrut Upadhyay
21) Naphthalene-d8	8.151	136	373933	20.000	ng	0.00	
39) Acenaphthene-d10	9.904	164	188506	20.000	ng	-0.01	
64) Phenanthrene-d10	11.398	188	269134	20.000	ng	# 0.00	
76) Chrysene-d12	14.051	240	205290	20.000	ng	# 0.00	
86) Perylene-d12	15.533	264	147823	20.000	ng	0.00	03/18/2022
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	506241	76.741	ng	0.00	
7) Phenol-d6	6.498	99	690323	76.070	ng	0.00	
23) Nitrobenzene-d5	7.434	82	464423	51.292	ng	0.00	
42) 2,4,6-Tribromophenol	10.698	330	113450	55.907	ng	-0.01	
45) 2-Fluorobiphenyl	9.222	172	710591	53.294	ng	-0.01	
79) Terphenyl-d14	12.986	244	516499	43.323	ng	0.00	
Target Compounds							Qvalue
49) Acenaphthylene	9.769	152	41040	2.421	ng		99
52) Acenaphthene	9.939	154	25003	2.475	ng		97
58) Fluorene	10.457	166	28625	2.352	ng		98
71) Phenanthrene	11.422	178	546072	38.436	ng		100
72) Anthracene	11.475	178	76423	5.432	ng		97
73) Carbazole	11.633	167	44401	3.351	ng		97
75) Fluoranthene	12.621	202	1049204	66.049	ng		92
78) Pyrene	12.851	202	944790	59.086	ng		99
81) Benzo(a)anthracene	14.039	228	441209	31.919	ng		95
83) Chrysene	14.074	228	487060m	37.884	ng		
84) Bis(2-ethylhexyl)phtha...	14.010	149	26390	3.186	ng	#	96
87) Indeno(1,2,3-cd)pyrene	17.039	276	153750	17.265	ng	#	81
88) Benzo(b)fluoranthene	15.098	252	449590m	46.335	ng		
89) Benzo(k)fluoranthene	15.127	252	171561m	18.804	ng		
90) Benzo(a)pyrene	15.474	252	289254	37.857	ng	#	91
91) Dibenzo(a,h)anthracene	17.045	278	41741m	5.632	ng		
92) Benzo(g,h,i)perylene	17.498	276	148627	20.558	ng	#	84

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031722\
Data File : BF127383.D
Acq On : 17 Mar 2022 18:43
Operator : CG\JU
Sample : N1953-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RO-RBR-200033

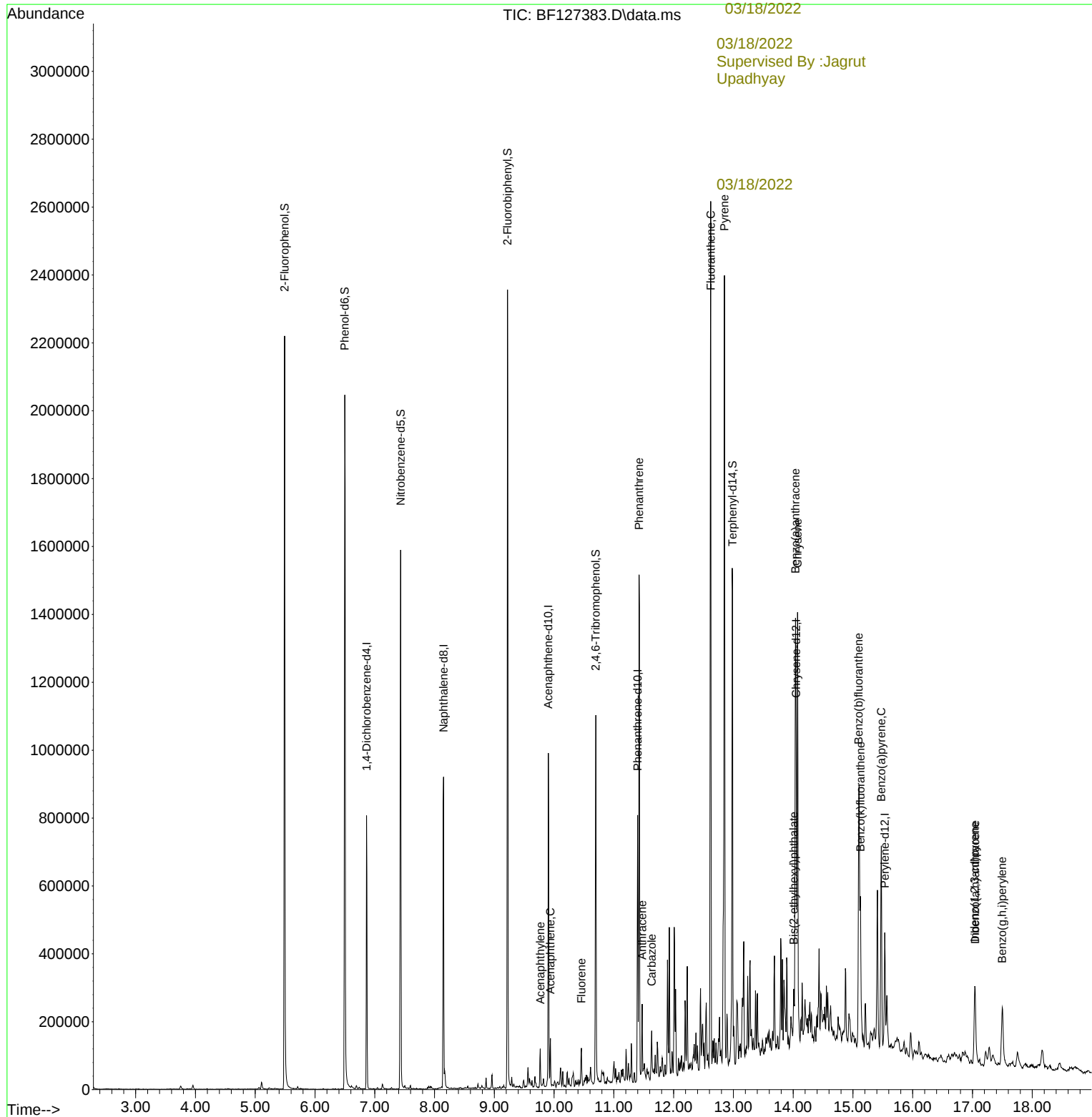
Quant Time: Mar 18 04:40:20 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031022.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 10 16:51:53 2022
Response via : Initial Calibration

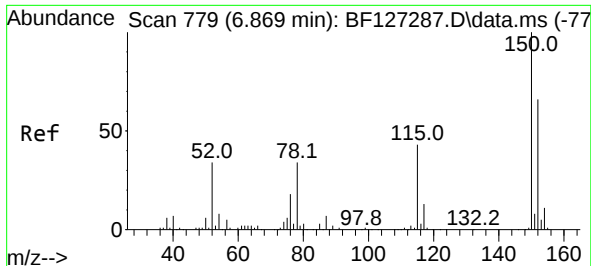
Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo
03/18/2022

Supervised By :Jagrut
Upadhyay
03/18/2022

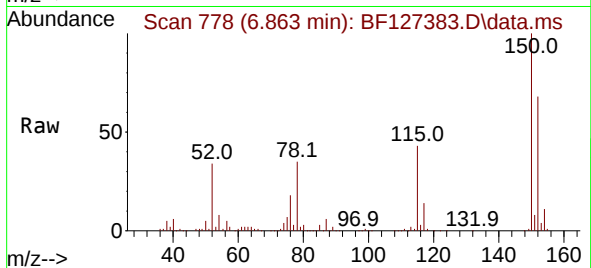
03/18/2022
Supervised By :Jagrut
Upadhyay





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Instrument :
BNA_F
ClientSampleId :
RO-RBR-200033



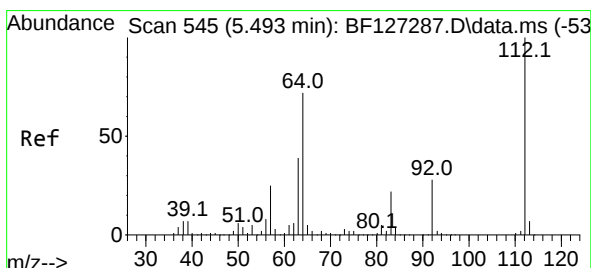
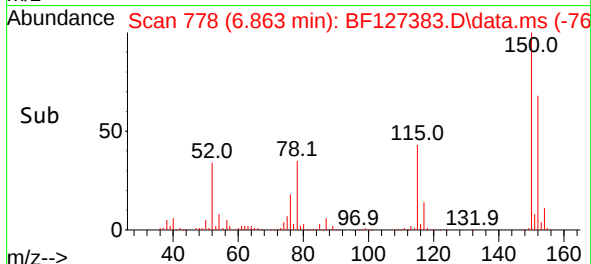
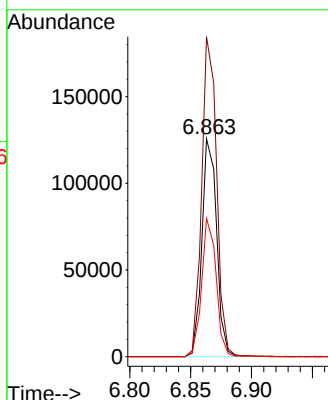
Tgt Ion:152 Resp: 10604
Ion Ratio Lower Upper
152 100
150 146.8 128.1 192.1
115 63.5 56.7 85.1

Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo
03/18/2022

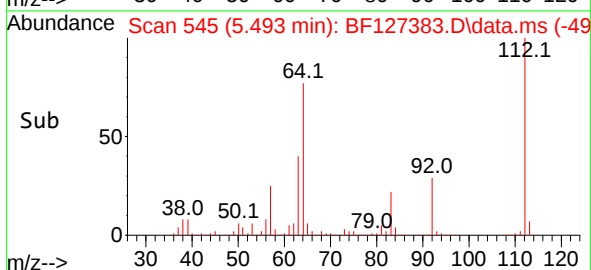
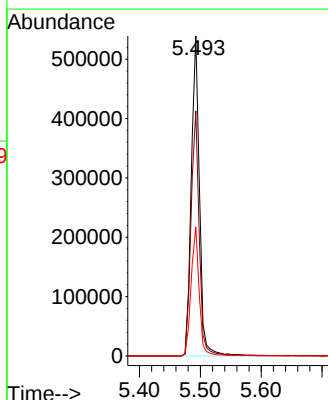
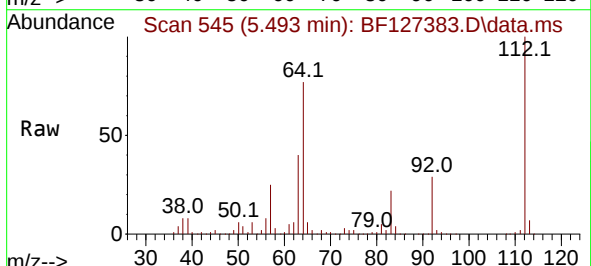
Supervised By :Jagrut
Upadhyay
03/18/2022

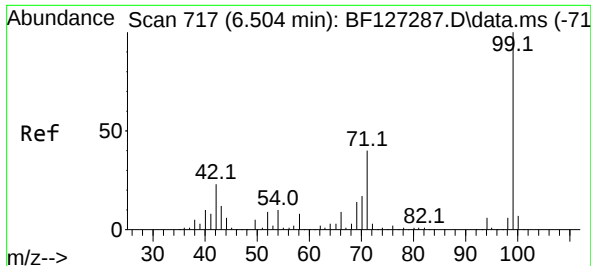
03/18/2022
Supervised By :Jagrut
Upadhyay



#5
2-Fluorophenol
Concen: 76.741 ng
RT: 5.493 min Scan# 545
Delta R.T. -0.000 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

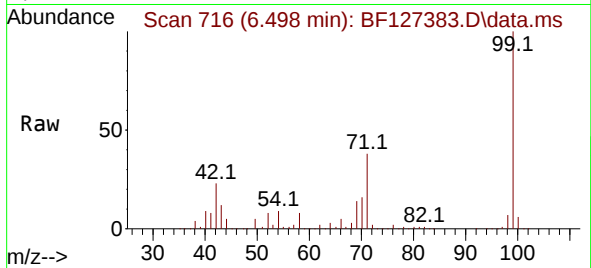
Tgt Ion:112 Resp: 506241
Ion Ratio Lower Upper
112 100
64 76.6 49.5 74.3#
63 40.3 23.9 35.9#





#7
Phenol-d6
Concen: 76.070 ng
RT: 6.498 min Scan# 716
Delta R.T. -0.006 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Instrument :
BNA_F
ClientSampleId :
RO-RBR-200033



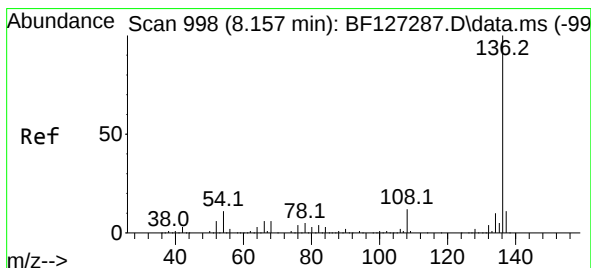
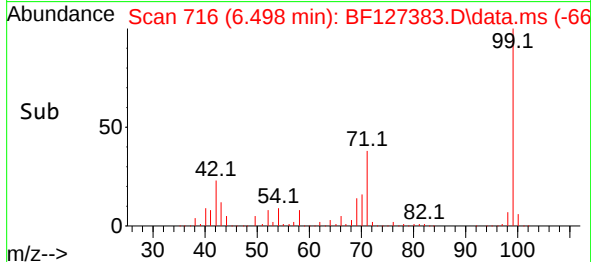
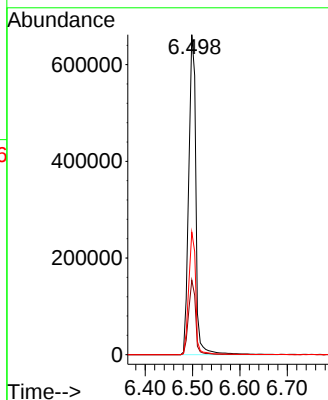
Tgt Ion: 99 Resp: 69032
Ion Ratio Lower Upper
99 100
42 23.3 14.2 21.4
71 38.3 24.3 36.5

Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo
03/18/2022

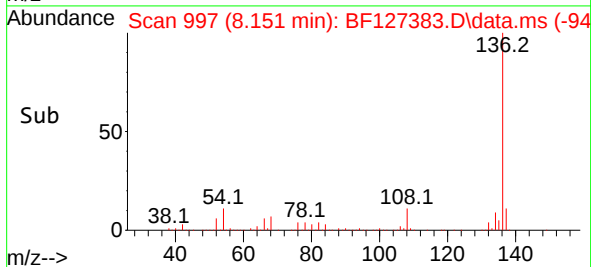
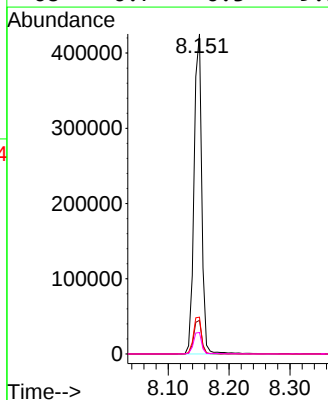
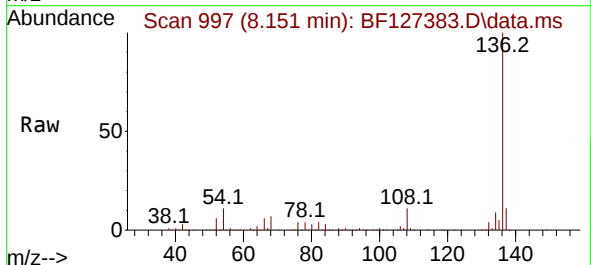
Supervised By :Jagrut
Upadhyay
03/18/2022

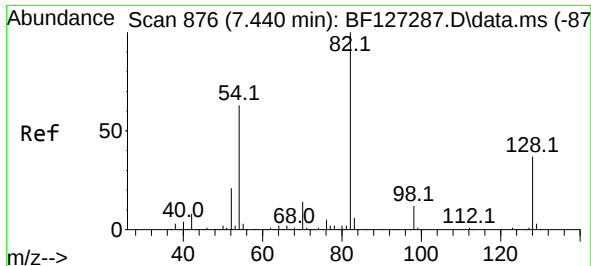
03/18/2022
Supervised By :Jagrut
Upadhyay



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 997
Delta R.T. -0.006 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Tgt Ion:136 Resp: 373933
Ion Ratio Lower Upper
136 100
137 10.5 8.6 13.0
54 11.5 7.8 11.6
68 6.7 6.3 9.5





#23

Nitrobenzene-d5

Concen: 51.292 ng

RT: 7.434 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF127383.D

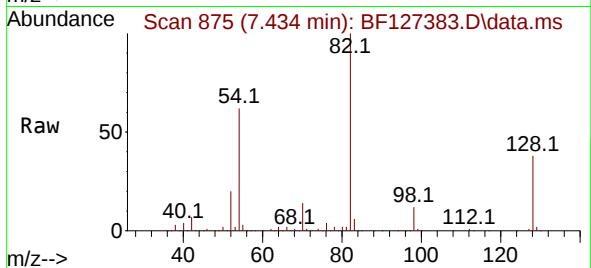
Acq: 17 Mar 2022 18:43

Instrument :

BNA_F

ClientSampleId :

RO-RBR-200033



Tgt Ion: 82 Resp: 46442

Ion	Ratio	Lower	Upper
82	100		
128	37.9	32.7	49.1
54	61.7	41.7	62.5

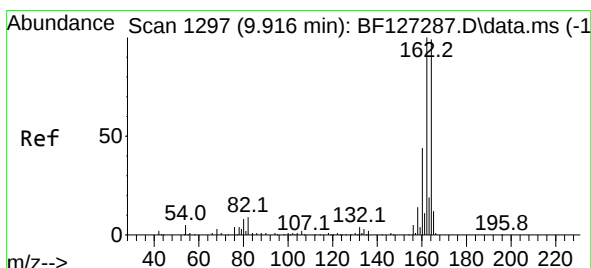
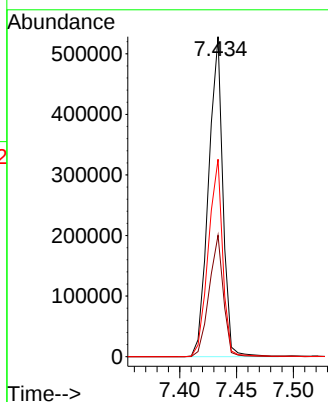
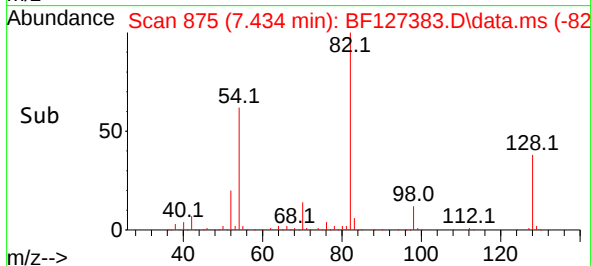
Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo
03/18/2022

Supervised By :Jagrut
Upadhyay
03/18/2022

03/18/2022
Supervised By :Jagrut
Upadhyay

03/18/2022



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1295

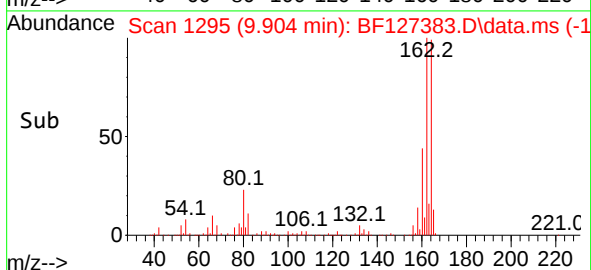
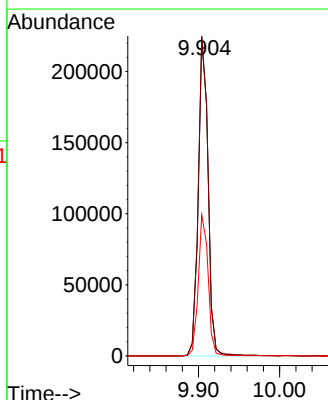
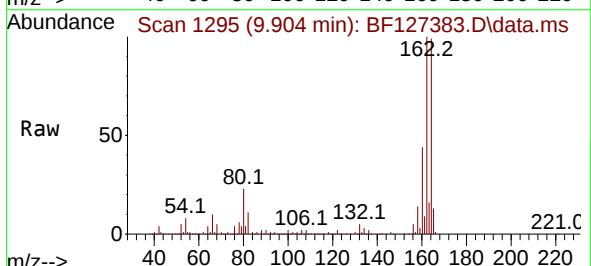
Delta R.T. -0.012 min

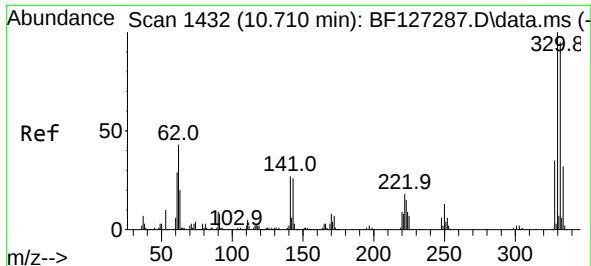
Lab File: BF127383.D

Acq: 17 Mar 2022 18:43

Tgt Ion:164 Resp: 188506

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.4	122.0
160	44.5	36.6	54.8





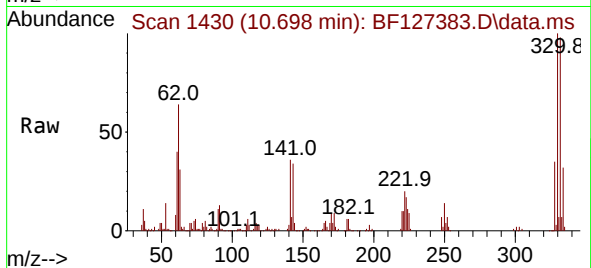
#42
2,4,6-Tribromophenol
Concen: 55.907 ng
RT: 10.698 min Scan# 1432
Delta R.T. -0.012 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Instrument :

BNA_F

ClientSampleId :

RO-RBR-200033



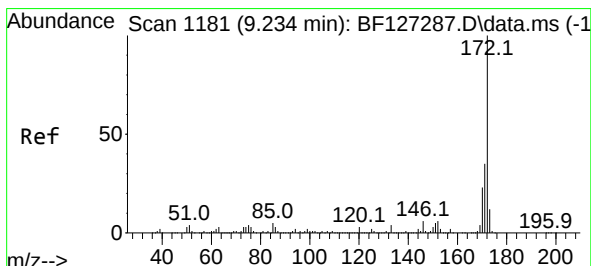
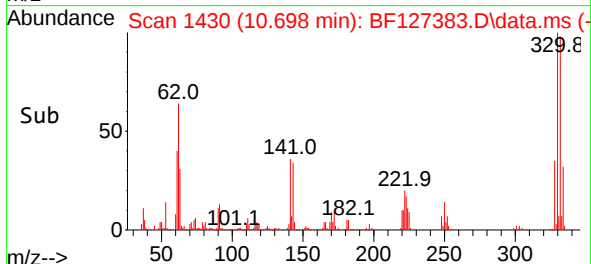
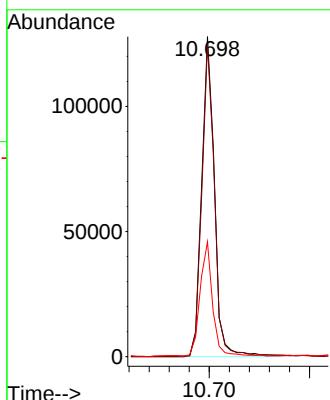
Tgt Ion:330 Resp: 113450
Ion Ratio Lower Upper
330 100
332 96.0 76.0 114.0
141 36.7 30.1 45.1

Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo
03/18/2022

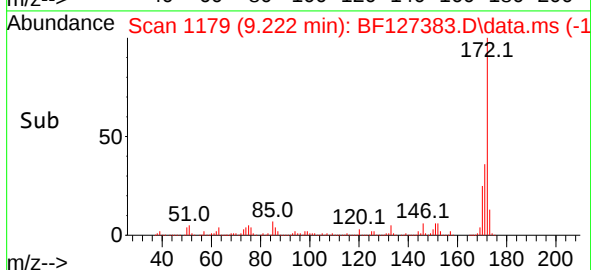
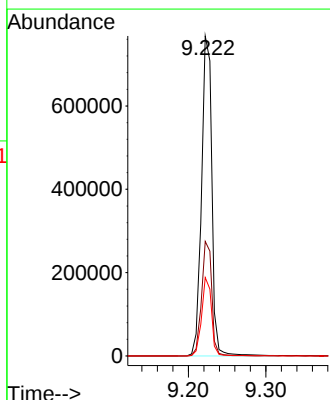
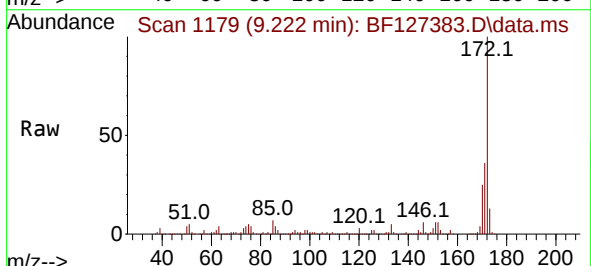
Supervised By :Jagrut
Upadhyay
03/18/2022

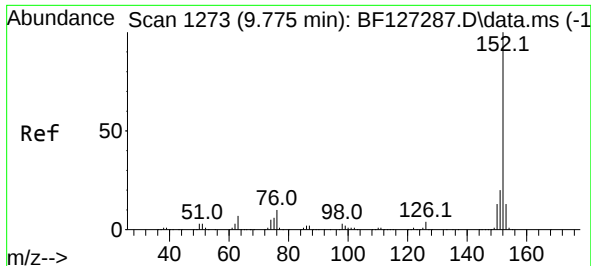
03/18/2022
Supervised By :Jagrut
Upadhyay



#45
2-Fluorobiphenyl
Concen: 53.294 ng
RT: 9.222 min Scan# 1179
Delta R.T. -0.012 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Tgt Ion:172 Resp: 710591
Ion Ratio Lower Upper
172 100
171 35.8 28.3 42.5
170 24.5 19.0 28.6





#49

Acenaphthylene

Concen: 2.421 ng

RT: 9.769 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF127383.D

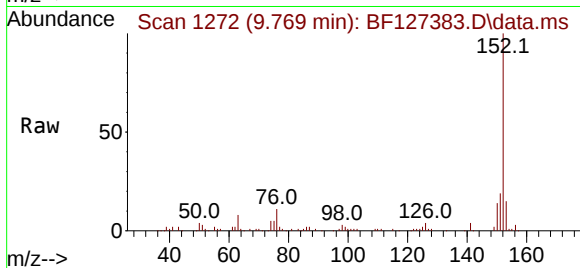
Acq: 17 Mar 2022 18:43

Instrument :

BNA_F

ClientSampleId :

RO-RBR-200033



Tgt Ion:152	Resp:	41040
Ion Ratio	Lower	Upper
152	100	
151	18.8	15.7 23.5
153	14.6	11.4 17.0

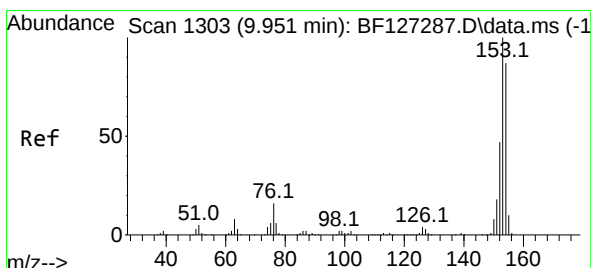
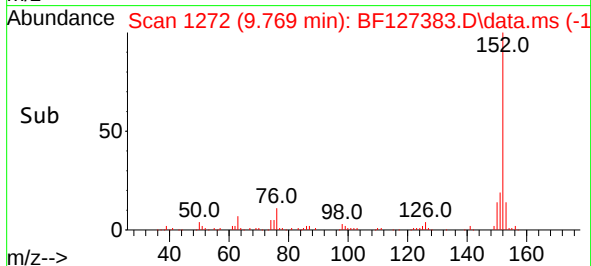
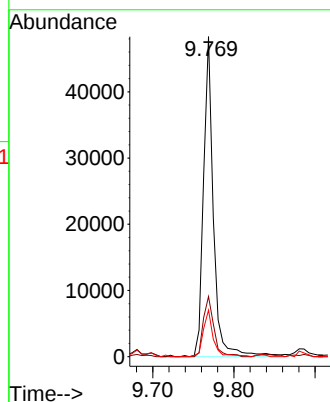
Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo

03/18/2022

Supervised By :Jagrut
Upadhyay
03/18/2022

03/18/2022
Supervised By :Jagrut
Upadhyay



#52

Acenaphthene

Concen: 2.475 ng

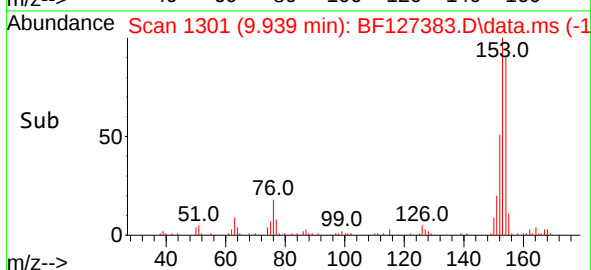
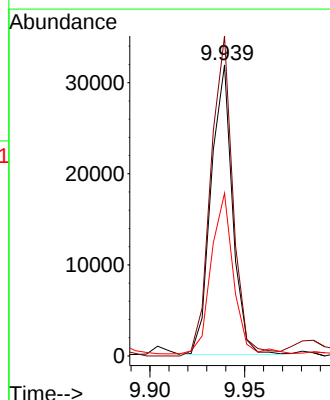
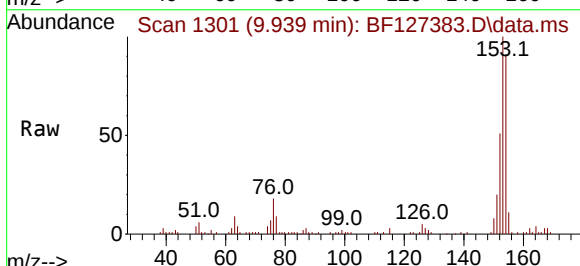
RT: 9.939 min Scan# 1301

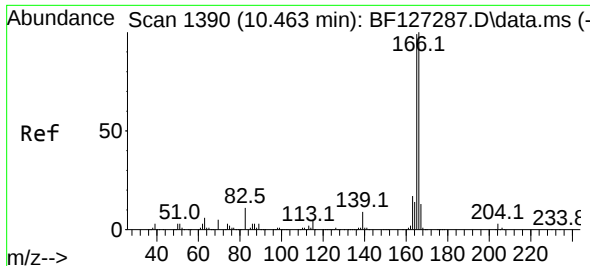
Delta R.T. -0.012 min

Lab File: BF127383.D

Acq: 17 Mar 2022 18:43

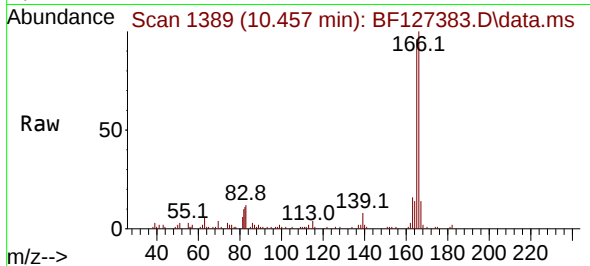
Tgt Ion:154	Resp:	25003
Ion Ratio	Lower	Upper
154	100	
153	109.9	87.8 131.6
152	55.9	39.4 59.2





#58
Fluorene
Concen: 2.352 ng
RT: 10.457 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Instrument :
BNA_F
ClientSampleId :
RO-RBR-200033



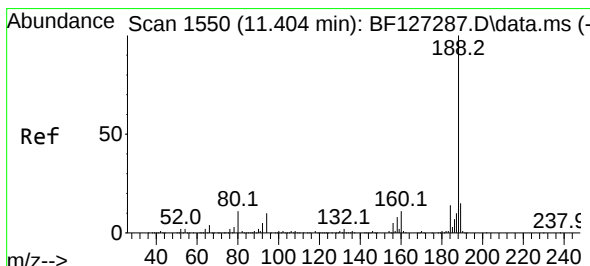
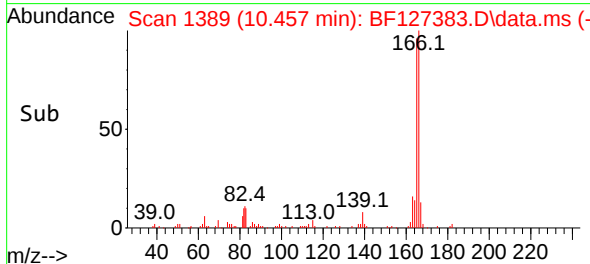
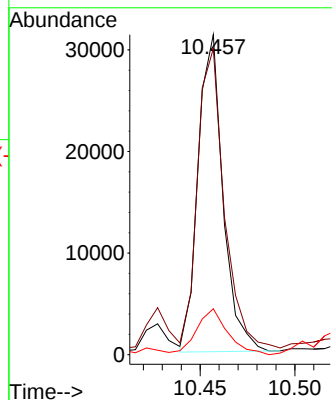
Tgt Ion:166 Resp: 28625
Ion Ratio Lower Upper
166 100
165 95.7 77.7 116.5
167 14.3 10.7 16.1

Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo
03/18/2022

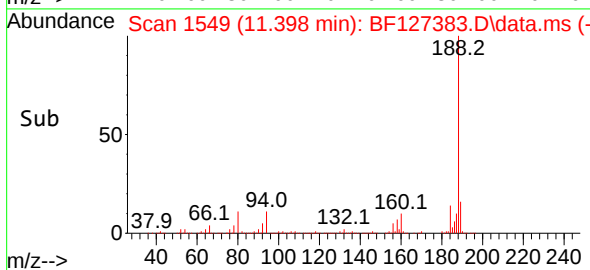
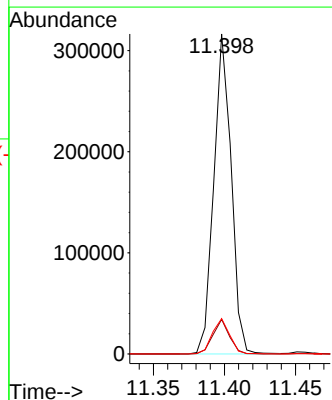
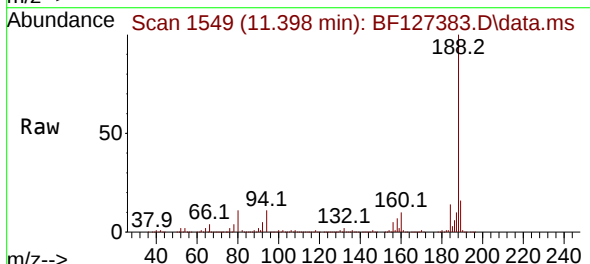
Supervised By :Jagrut
Upadhyay
03/18/2022

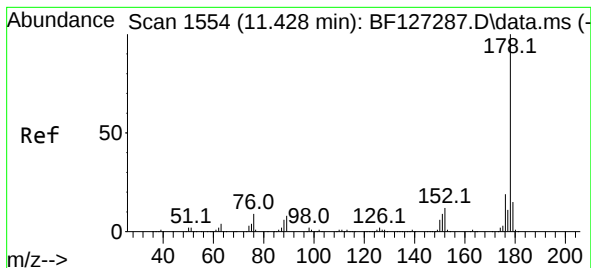
03/18/2022
Supervised By :Jagrut
Upadhyay



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Tgt Ion:188 Resp: 269134
Ion Ratio Lower Upper
188 100
94 10.8 10.1 15.1
80 11.1 11.8 17.6#





#71

Phenanthrene

Concen: 38.436 ng

RT: 11.422 min Scan# 1554

Delta R.T. -0.006 min

Lab File: BF127383.D

Acq: 17 Mar 2022 18:43

Instrument :

BNA_F

ClientSampleId :

RO-RBR-200033

Tgt Ion:178 Resp: 546072

Ion Ratio Lower Upper

178 100

176 19.5 15.7 23.5

179 15.1 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Christian

Giraldo

03/18/2022

Supervised By :Jagrut

Upadhyay

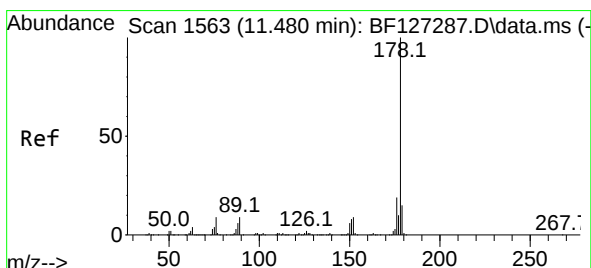
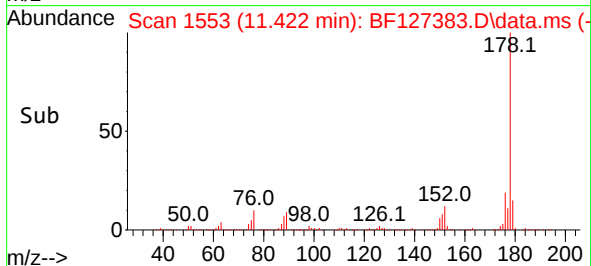
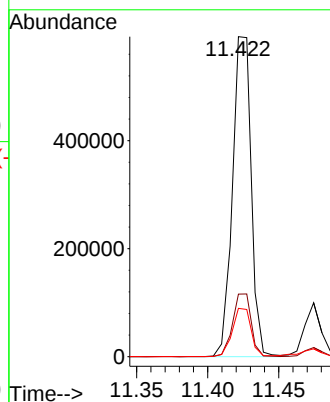
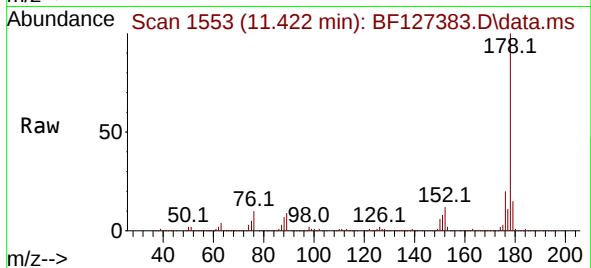
03/18/2022

03/18/2022

Supervised By :Jagrut

Upadhyay

03/18/2022



#72

Anthracene

Concen: 5.432 ng

RT: 11.475 min Scan# 1562

Delta R.T. -0.006 min

Lab File: BF127383.D

Acq: 17 Mar 2022 18:43

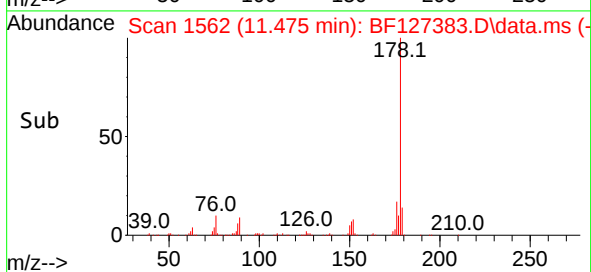
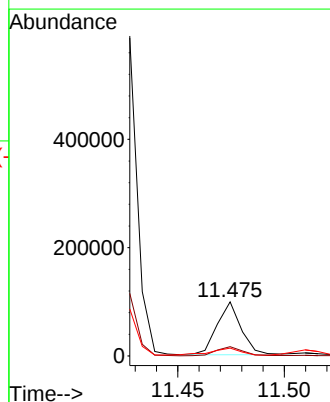
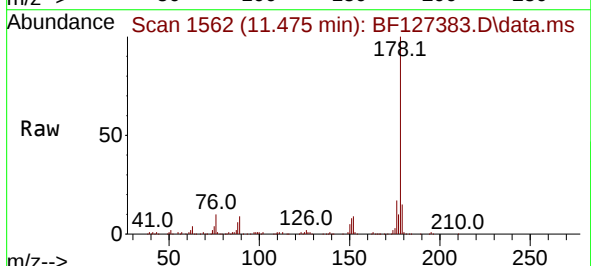
Tgt Ion:178 Resp: 76423

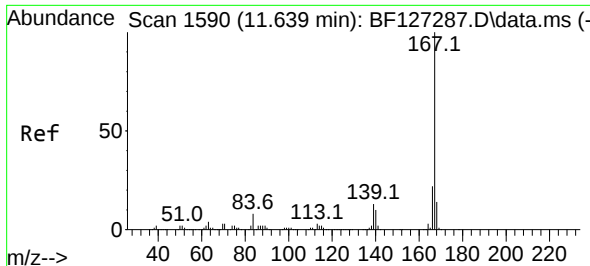
Ion Ratio Lower Upper

178 100

176 17.1 15.0 22.6

179 14.7 12.5 18.7





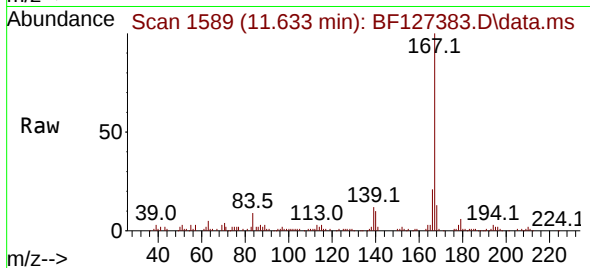
#73
 Carbazole
 Concen: 3.351 ng
 RT: 11.633 min Scan# 1590
 Delta R.T. -0.006 min
 Lab File: BF127383.D
 Acq: 17 Mar 2022 18:43

Instrument :

BNA_F

ClientSampleId :

RO-RBR-200033



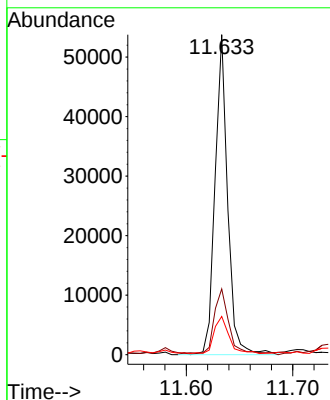
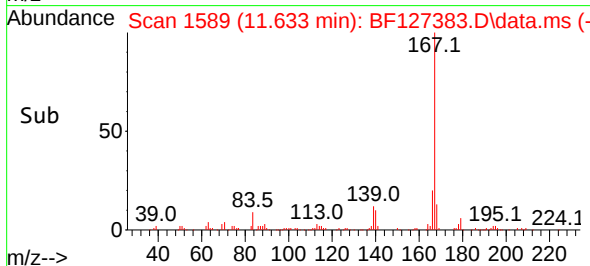
Tgt Ion:167 Resp: 4440
 Ion Ratio Lower Upper
 167 100
 166 20.6 16.9 25.3
 139 12.0 11.3 16.9

Manual Integrations
 APPROVED

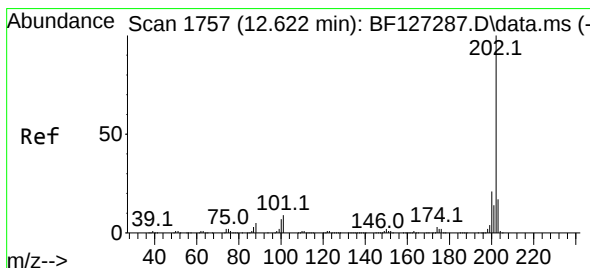
Reviewed By :Christian
 Giraldo
 03/18/2022

Supervised By :Jagrut
 Upadhyay
 03/18/2022

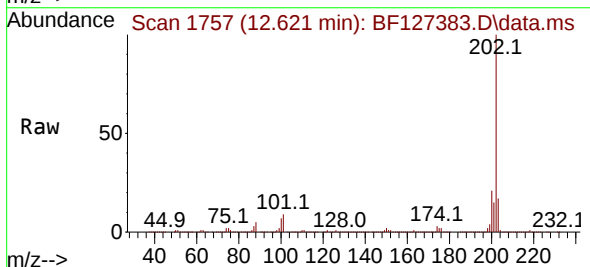
03/18/2022
 Supervised By :Jagrut
 Upadhyay



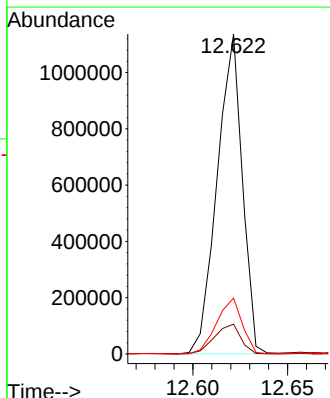
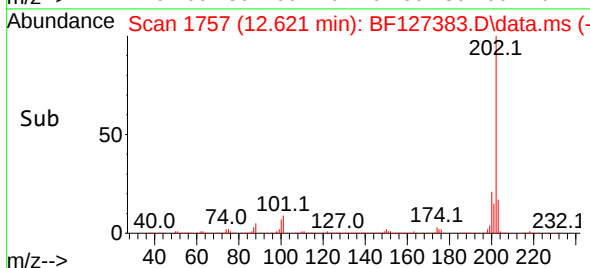
03/18/2022

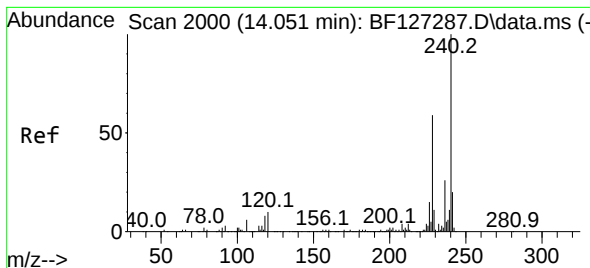


#75
 Fluoranthene
 Concen: 66.049 ng
 RT: 12.621 min Scan# 1757
 Delta R.T. -0.000 min
 Lab File: BF127383.D
 Acq: 17 Mar 2022 18:43



Tgt Ion:202 Resp: 1049204
 Ion Ratio Lower Upper
 202 100
 101 9.3 0.0 35.7
 203 17.5 0.0 37.1





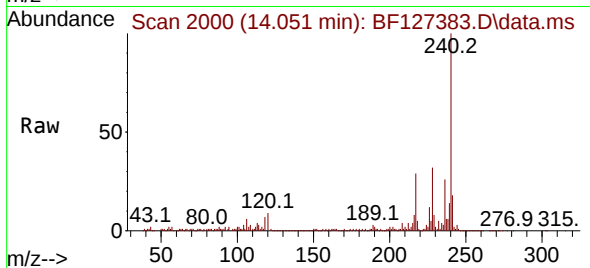
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2000
Delta R.T. -0.000 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Instrument :

BNA_F

ClientSampleId :

RO-RBR-200033



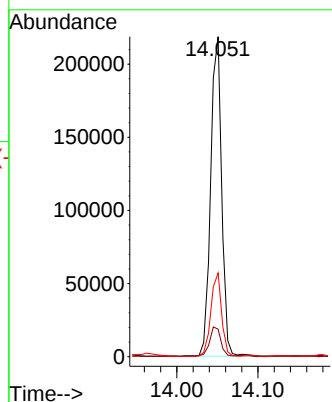
Tgt Ion:240 Resp: 205290
Ion Ratio Lower Upper
240 100
120 8.6 14.4 21.6
236 26.1 20.5 30.7

Manual Integrations
APPROVED

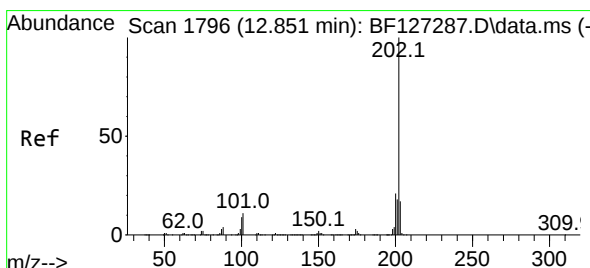
Reviewed By :Christian
Giraldo
03/18/2022

Supervised By :Jagrut
Upadhyay
03/18/2022

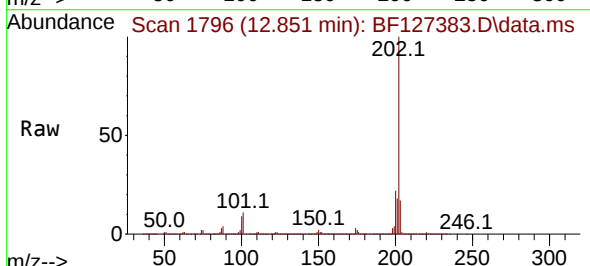
03/18/2022
Supervised By :Jagrut
Upadhyay



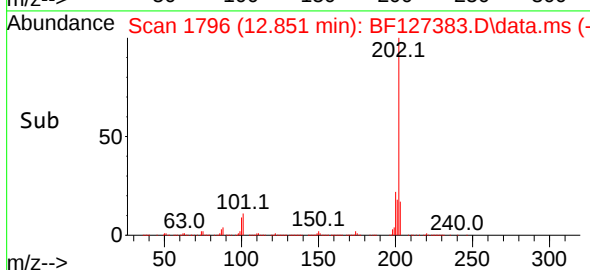
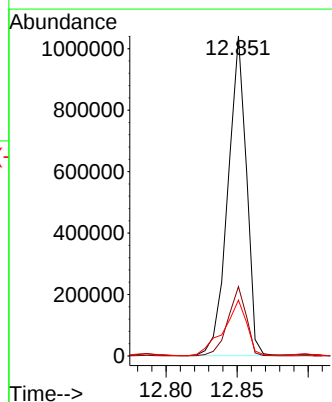
03/18/2022

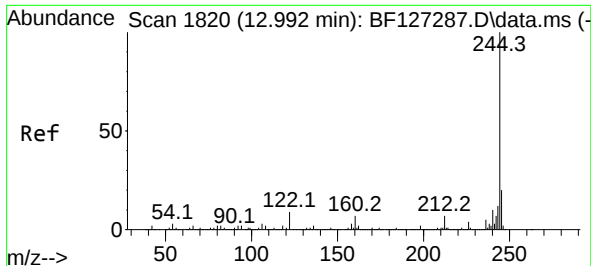


#78
Pyrene
Concen: 59.086 ng
RT: 12.851 min Scan# 1796
Delta R.T. -0.000 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43



Tgt Ion:202 Resp: 944790
Ion Ratio Lower Upper
202 100
200 21.6 16.6 24.8
203 17.4 13.8 20.8





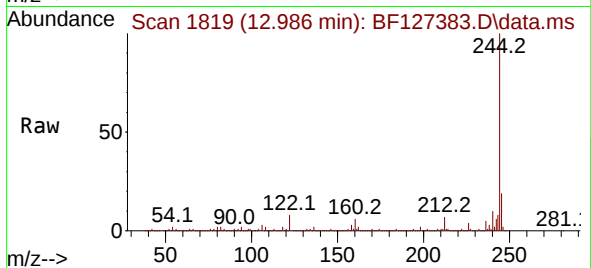
#79
 Terphenyl-d14
 Concen: 43.323 ng
 RT: 12.986 min Scan# 1820
 Delta R.T. -0.006 min
 Lab File: BF127383.D
 Acq: 17 Mar 2022 18:43

Instrument :

BNA_F

ClientSampleId :

RO-RBR-200033



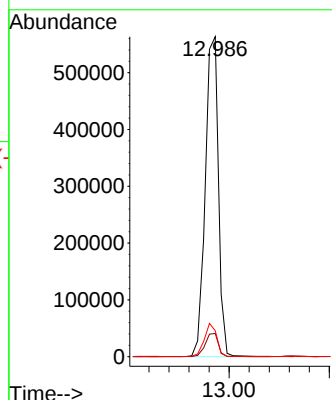
Tgt Ion:244 Resp: 516499
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.0 7.4
 122 8.1 13.3 19.9

Manual Integrations
 APPROVED

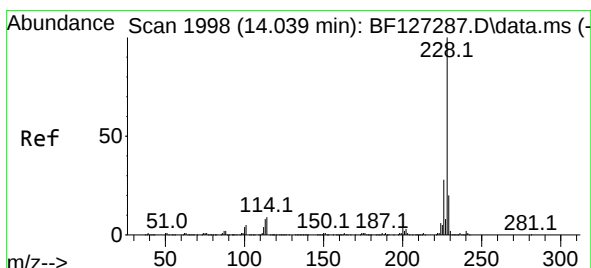
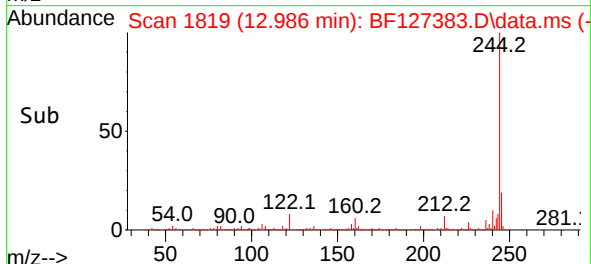
Reviewed By :Christian
 Giraldo
 03/18/2022

Supervised By :Jagrut
 Upadhyay
 03/18/2022

03/18/2022
 Supervised By :Jagrut
 Upadhyay

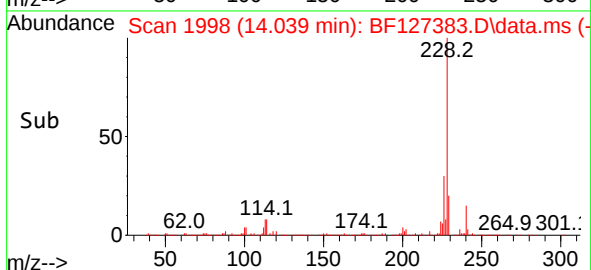
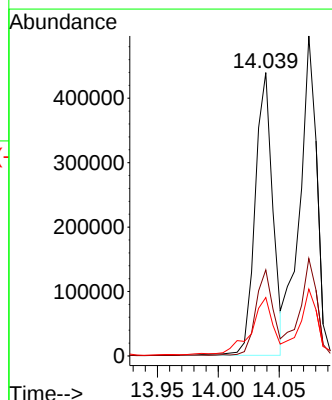
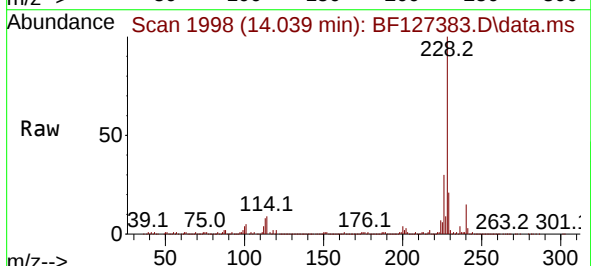


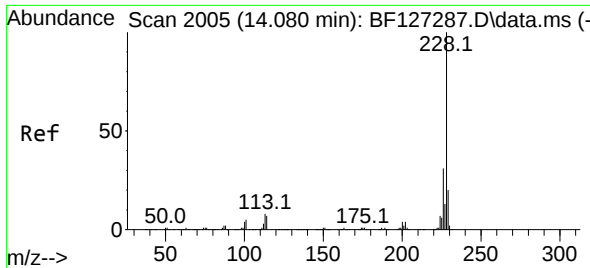
03/18/2022



#81
 Benzo(a)anthracene
 Concen: 31.919 ng
 RT: 14.039 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: BF127383.D
 Acq: 17 Mar 2022 18:43

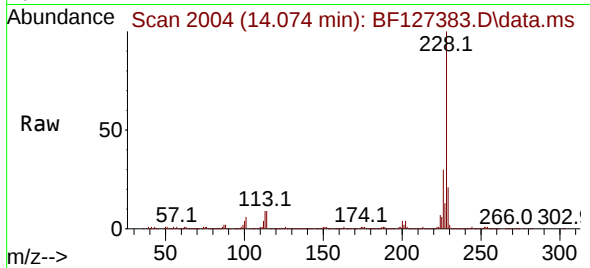
Tgt Ion:228 Resp: 441209
 Ion Ratio Lower Upper
 228 100
 226 30.4 21.4 32.0
 229 20.6 15.4 23.2





#83
Chrysene
Concen: 37.884 ng m
RT: 14.074 min Scan# 2005
Delta R.T. -0.006 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Instrument :
BNA_F
ClientSampleId :
RO-RBR-200033



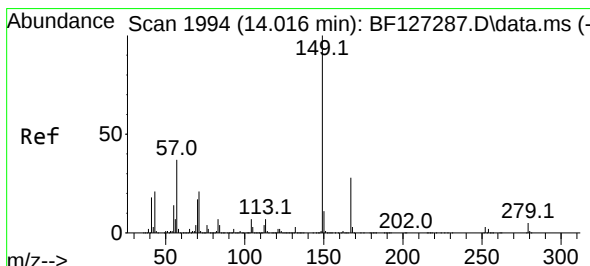
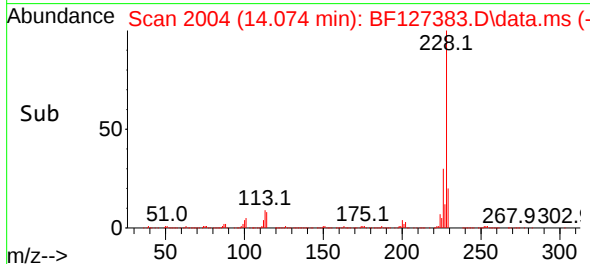
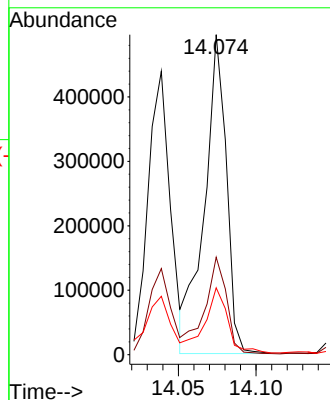
Tgt Ion:228 Resp: 487060
Ion Ratio Lower Upper
228 100
226 30.5 23.7 35.5
229 20.9 15.5 23.3

Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo
03/18/2022

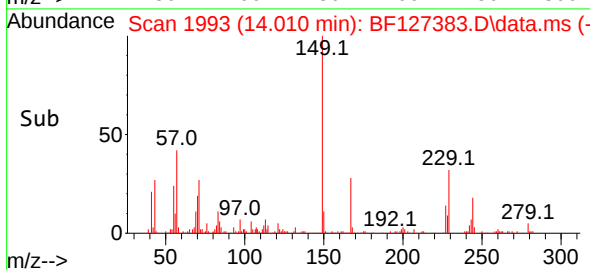
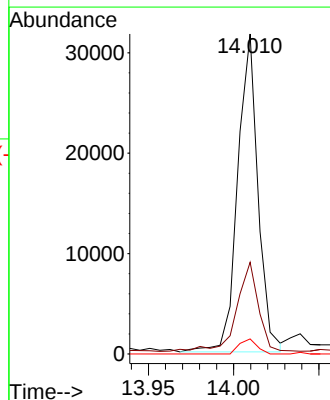
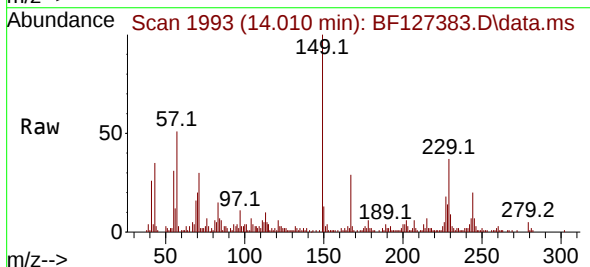
Supervised By :Jagrut
Upadhyay
03/18/2022

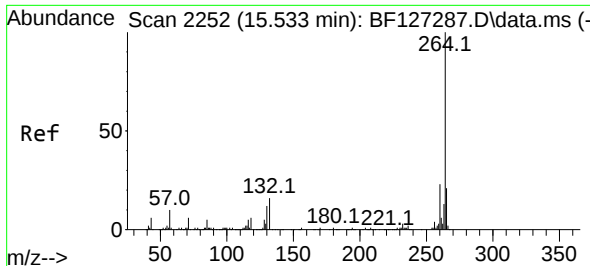
03/18/2022
Supervised By :Jagrut
Upadhyay



#84
Bis(2-ethylhexyl)phthalate
Concen: 3.186 ng
RT: 14.010 min Scan# 1993
Delta R.T. -0.006 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Tgt Ion:149 Resp: 26390
Ion Ratio Lower Upper
149 100
167 28.6 21.4 32.2
279 4.7 2.4 3.6





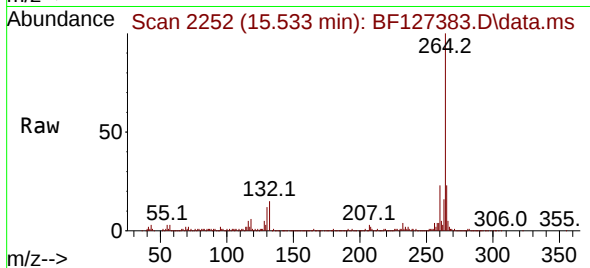
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Instrument :

BNA_F

ClientSampleId :

RO-RBR-200033



Tgt Ion:264 Resp: 147823
Ion Ratio Lower Upper
264 100
260 23.3 19.2 28.8
265 22.8 17.4 26.2

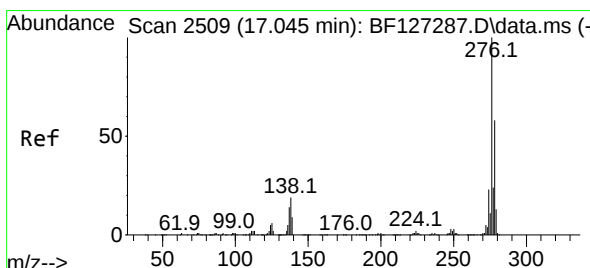
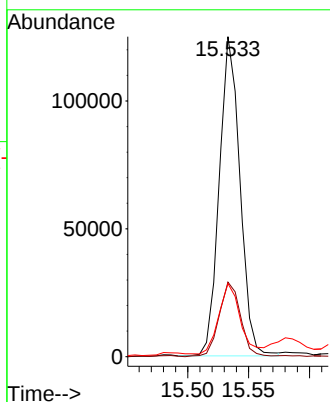
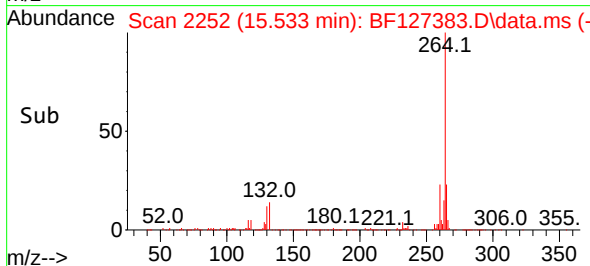
Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo

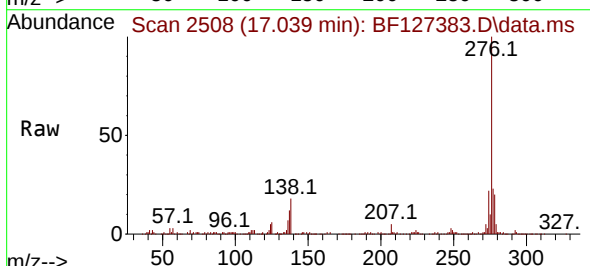
03/18/2022

Supervised By :Jagrut
Upadhyay
03/18/2022

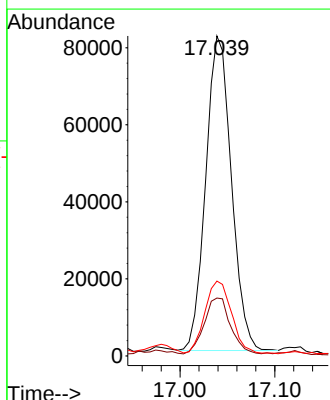
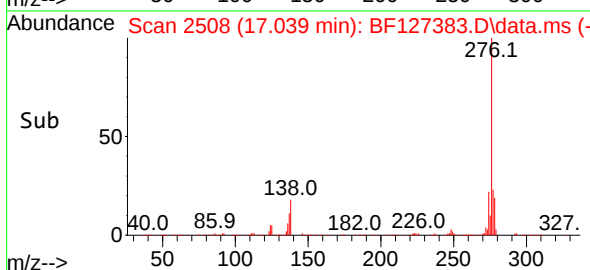
03/18/2022
Supervised By :Jagrut
Upadhyay

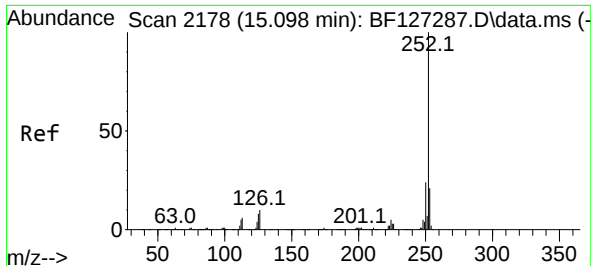


#87
Indeno(1,2,3-cd)pyrene
Concen: 17.265 ng
RT: 17.039 min Scan# 2508
Delta R.T. -0.006 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43



Tgt Ion:276 Resp: 153750
Ion Ratio Lower Upper
276 100
138 18.6 29.2 43.8#
277 24.0 19.8 29.8





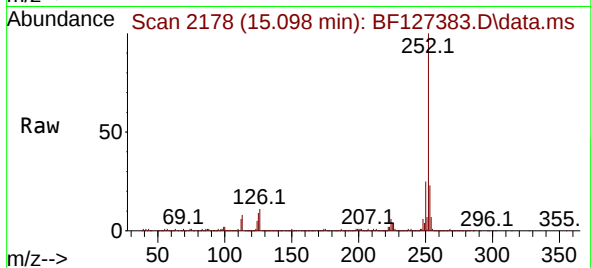
#88
Benzo(b)fluoranthene
Concen: 46.335 ng m
RT: 15.098 min Scan# 2178
Delta R.T. -0.000 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Instrument :

BNA_F

ClientSampleId :

RO-RBR-200033



Tgt Ion:252 Resp: 449590
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.8
125 9.4 12.4 18.6

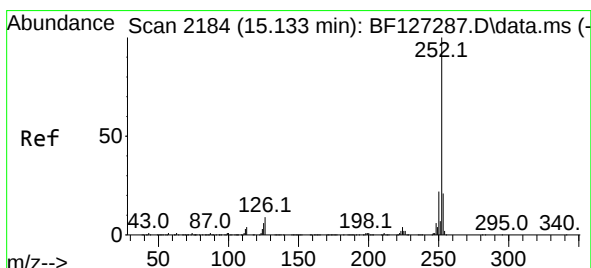
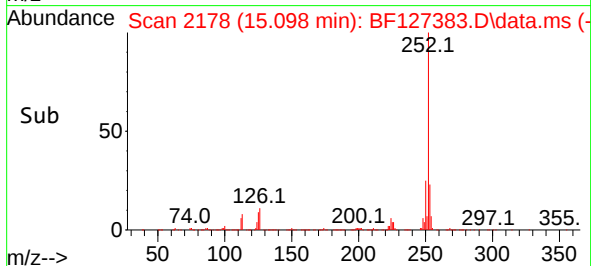
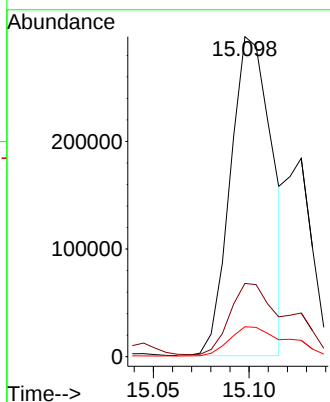
Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo

03/18/2022

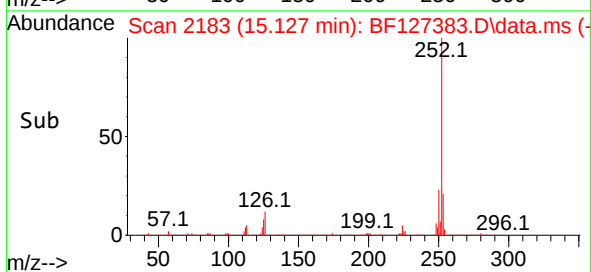
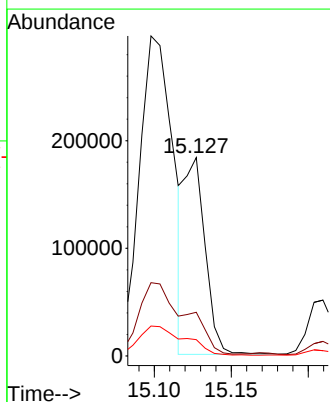
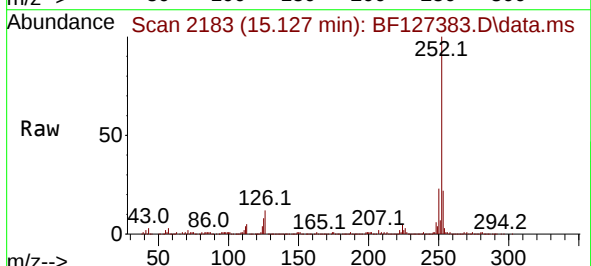
Supervised By :Jagrut
Upadhyay
03/18/2022

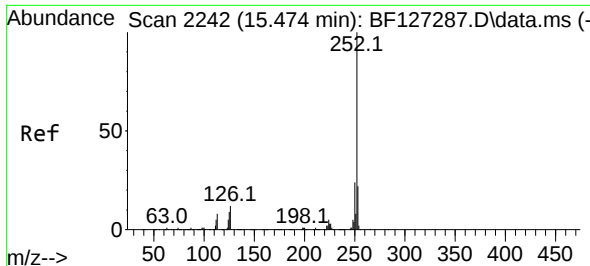
03/18/2022
Supervised By :Jagrut
Upadhyay



#89
Benzo(k)fluoranthene
Concen: 18.804 ng m
RT: 15.127 min Scan# 2183
Delta R.T. -0.006 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

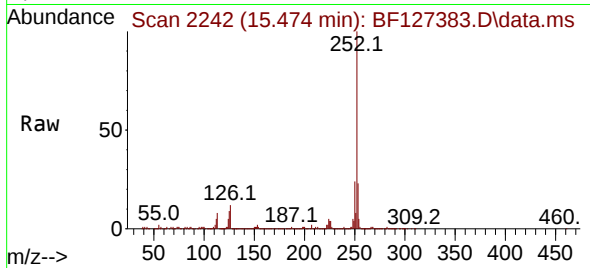
Tgt Ion:252 Resp: 171561
Ion Ratio Lower Upper
252 100
253 22.0 17.5 26.3
125 8.2 11.8 17.6





#90
Benzo(a)pyrene
Concen: 37.857 ng
RT: 15.474 min Scan# 210
Delta R.T. -0.000 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Instrument :
BNA_F
ClientSampleId :
RO-RBR-200033



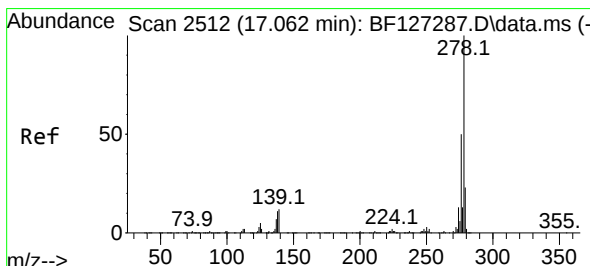
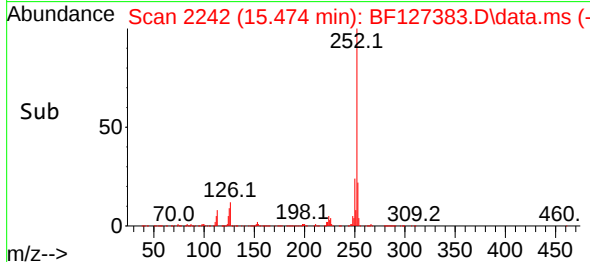
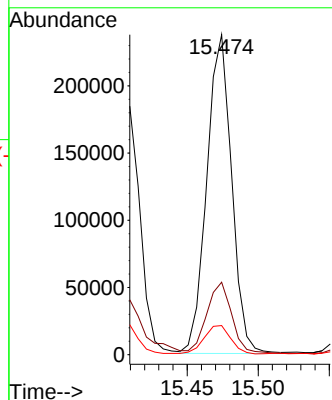
Tgt Ion:252 Resp: 289254
Ion Ratio Lower Upper
252 100
253 22.6 17.1 25.7
125 9.1 13.0 19.6

Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo
03/18/2022

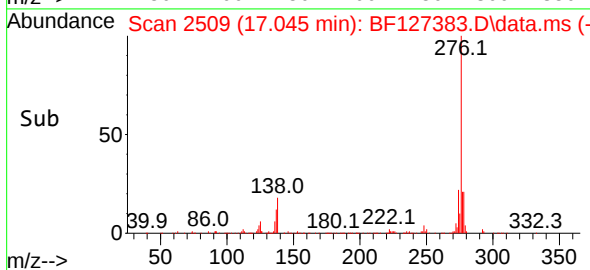
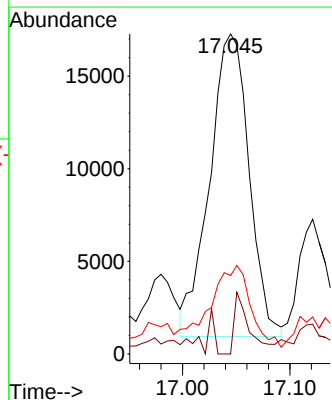
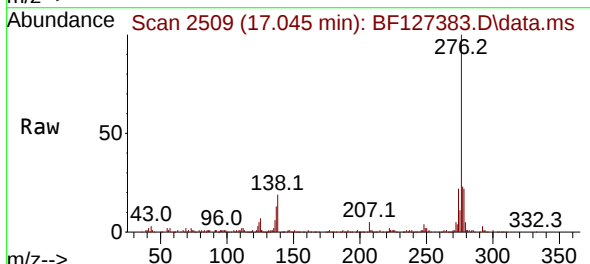
Supervised By :Jagrut
Upadhyay
03/18/2022

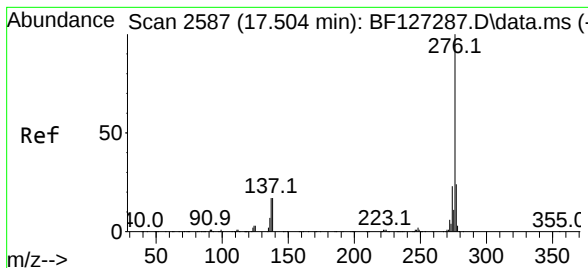
03/18/2022
Supervised By :Jagrut
Upadhyay



#91
Dibenzo(a,h)anthracene
Concen: 5.632 ng m
RT: 17.045 min Scan# 2509
Delta R.T. -0.018 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

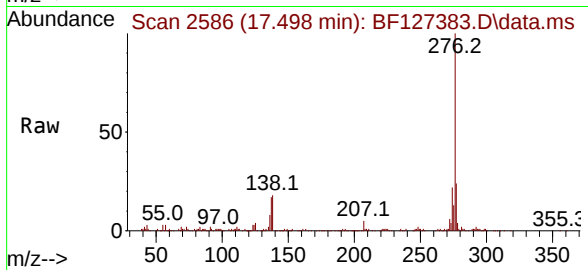
Tgt Ion:278 Resp: 41741
Ion Ratio Lower Upper
278 100
139 0.0 18.0 27.0#
279 24.5 18.6 27.8





#92
Benzo(g,h,i)perylene
Concen: 20.558 ng
RT: 17.498 min Scan# 2586
Delta R.T. -0.006 min
Lab File: BF127383.D
Acq: 17 Mar 2022 18:43

Instrument :
BNA_F
ClientSampleId :
RO-RBR-200033

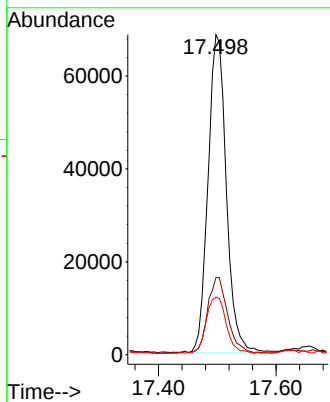
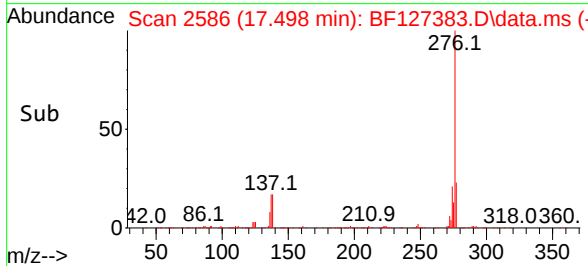


Tgt Ion: 276 Resp: 14862
Ion Ratio Lower Upper
276 100
277 24.2 18.5 27.7
138 18.0 25.9 38.9

Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo
03/18/2022

Supervised By :Jagrut
Upadhyay
03/18/2022



03/18/2022
Supervised By :Jagrut
Upadhyay

03/18/2022