

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052019\
 Data File : BE099677.D
 Acq On : 21 May 2019 1:20
 Operator : JU/SJ
 Sample : K2944-05
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FESB-5(4.5-5)

Manual Integrations
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 5/21/2019 3:26:21 PM

Quant Time: May 21 07:26:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE052019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 20 19:29:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	1657	0.40	ng	-0.01
7) Naphthalene-d8	10.61	136	5857	0.40	ng	0.00
13) Acenaphthene-d10	14.49	164	4292	0.40	ng	0.00
19) Phenanthrene-d10	17.23	188	13090	0.40	ng	0.00
27) Chrysene-d12	21.41	240	21068	0.40	ng	0.00
34) Perylene-d12	23.95	264	24528	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.37	112	1335	0.32	ng	0.00
5) Phenol-d6	6.98	99	1855	0.33	ng	0.00
8) Nitrobenzene-d5	8.98	82	1448	0.29	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	2655	0.26	ng	0.00
14) 2,4,6-Tribromophenol	15.97	330	773	0.37	ng	-0.01
15) 2-Fluorobiphenyl	13.10	172	3938	0.24	ng	0.00
25) Fluoranthene-d10	19.26	212	38625	0.22	ng	0.00
29) Terphenyl-d14	19.86	244	8983	0.24	ng	-0.01

Target Compounds					Qvalue	
9) Naphthalene	10.67	128	31679	0.506	ng	100
12) 2-Methylnaphthalene	12.30	142	3028	0.297	ng	99
16) Acenaphthylene	14.21	152	42897	2.144	ng	99
17) Acenaphthene	14.54	154	7491	0.667	ng	98
18) Fluorene	15.53	166	19096	1.155	ng	93
23) Phenanthrene	17.27	178	468559	14.648	ng	100
24) Anthracene	17.36	178	56697	1.954	ng	# 95
26) Fluoranthene	19.29	202	1386244	27.413	ng	99
28) Pyrene	19.66	202	1343964	25.390	ng	# 95
30) Benzo(a)anthracene	21.40	228	905645	15.128	ng	95
31) Chrysene	21.45	228	835768	13.058	ng	97
32) Bis(2-ethylhexyl)phthalate	21.32	149	122930	1.782	ng	100
33) Indeno(1,2,3-cd)pyrene	26.65	276	634444	8.210	ng	97
35) Benzo(b)fluoranthene	23.18	252	1250611	18.607	ng	99
36) Benzo(k)fluoranthene	23.22	252	415483m	5.930	ng	
37) Benzo(a)pyrene	23.84	252	897739m	13.880	ng	
38) Dibenzo(a,h)anthracene	26.66	278	159671	2.351	ng	95
39) Benzo(a,h,i)perylene	27.49	276	616384	8.987	ng	98

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

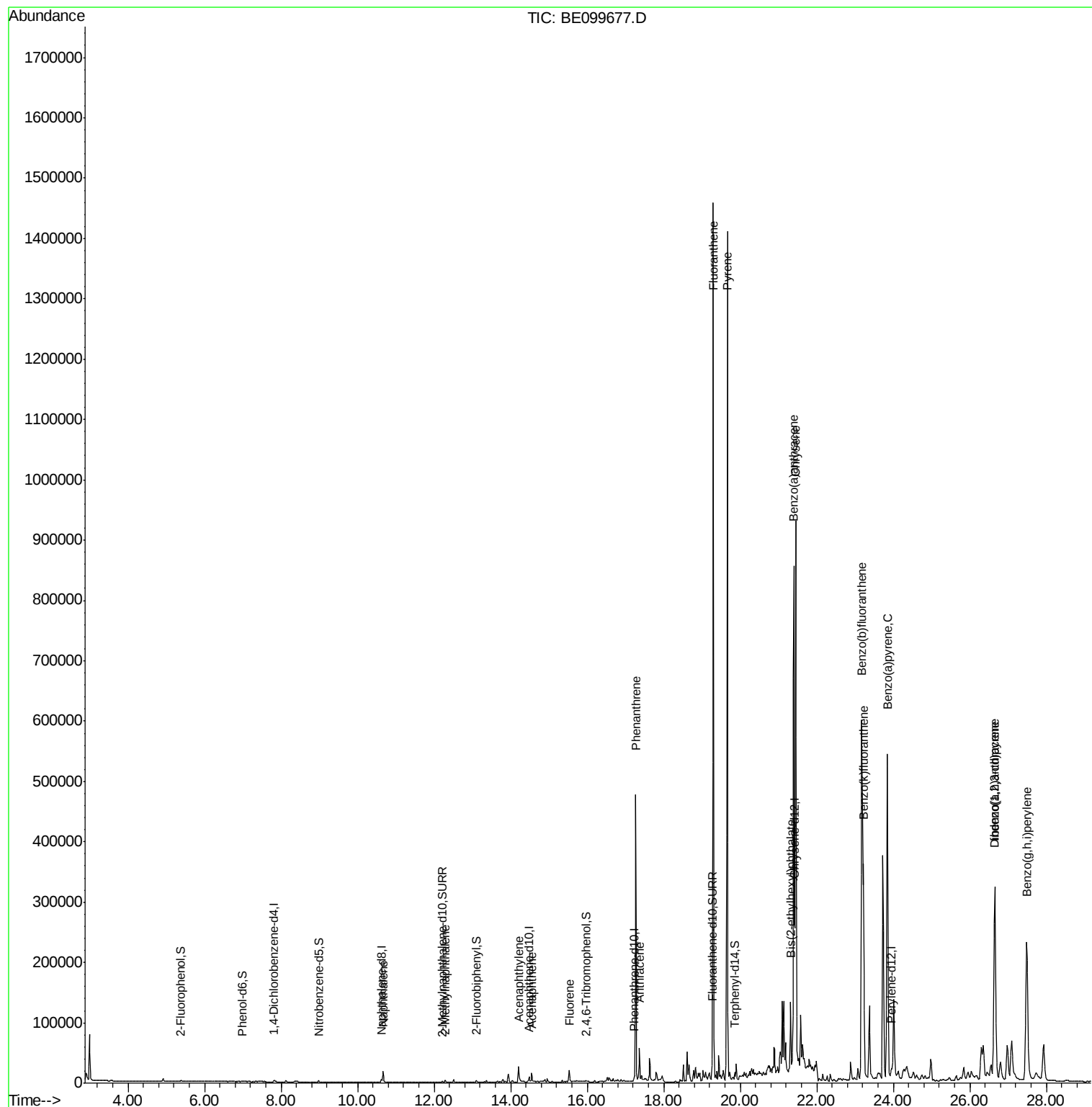
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052019\
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Misc :
ALS Vial : 11 Sample Multiplier: 1

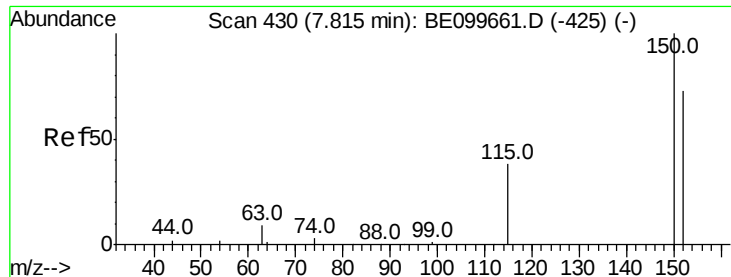
Instrument :
BNA_E
ClientSampled :
FESB-5(4.5-5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 20 19:29:40 2019
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.80 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

Instrument :

BNA_E

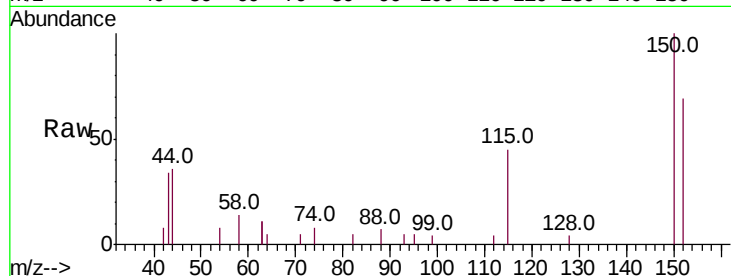
ClientSampleId :

FESB-5(4.5-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	145.7	109.2	163.8
115	66.2	43.7	65.5

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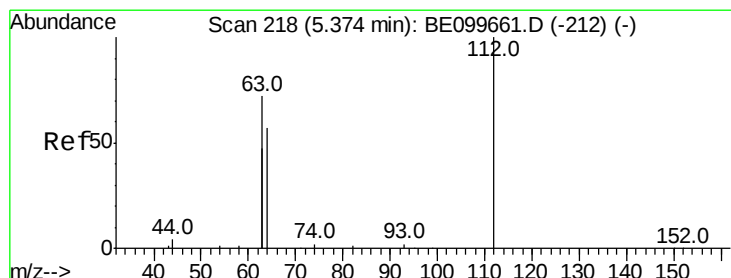
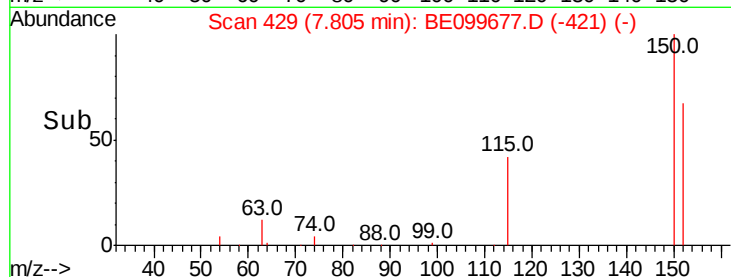
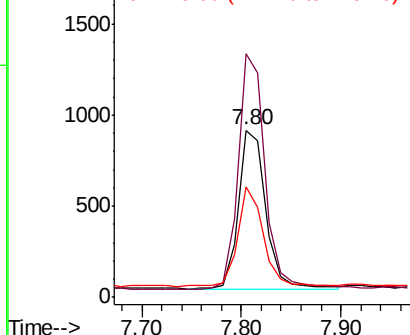


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.319 ng

RT: 5.37 min Scan# 218

Delta R.T. 0.00 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

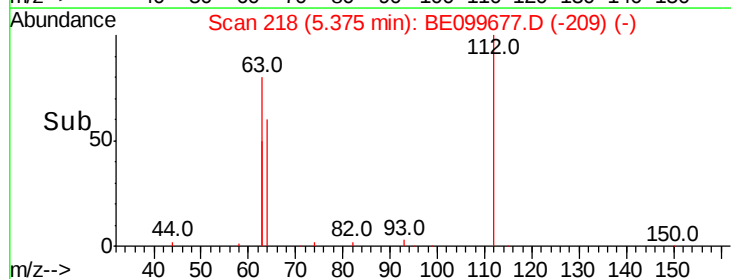
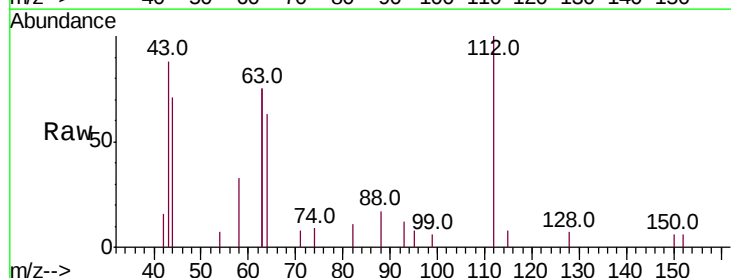
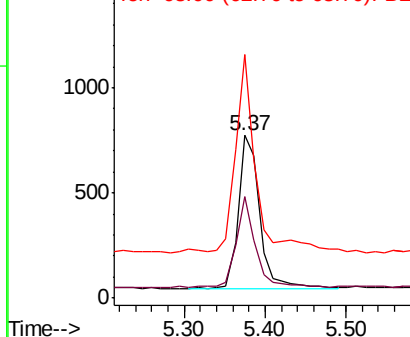
Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.5	43.4	65.2
63	125.2	96.9	145.3

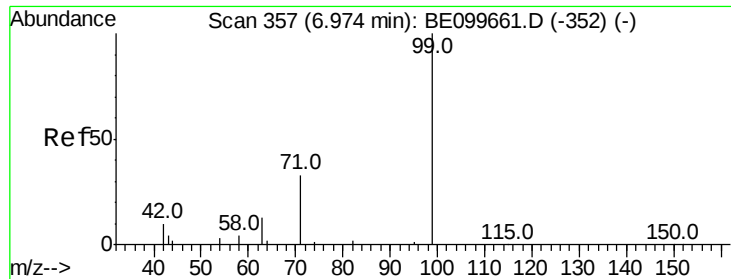
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.335 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

Instrument :

BNA_E

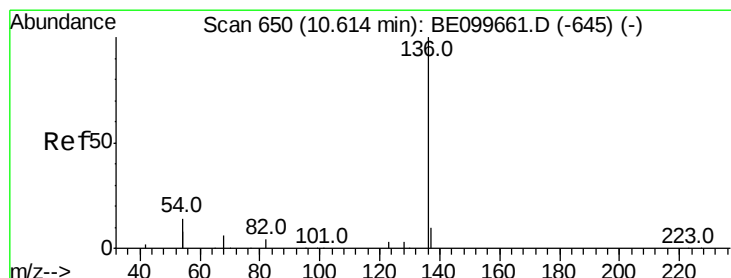
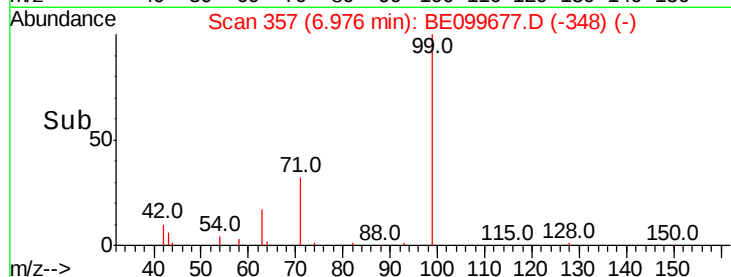
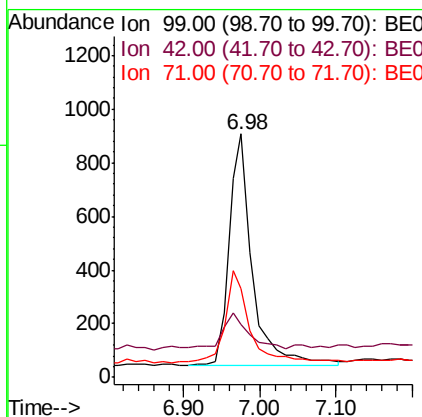
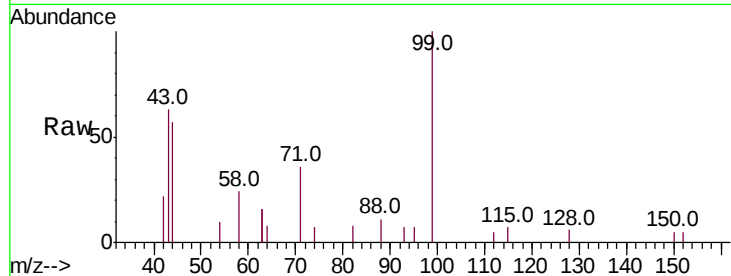
ClientSampleId :

FESB-5(4.5-5)

Tot Ion:	99	Resp:	1855
Ion	Ratio	Lower	Upper
99	100		
42	15.6	12.2	18.2
71	41.1	28.9	43.3

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#7

Naphthalene-d8

Concen: 0.400 ng

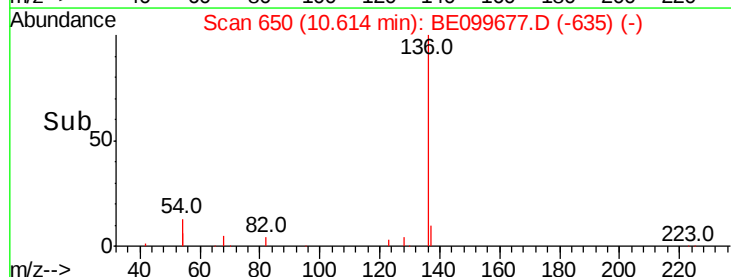
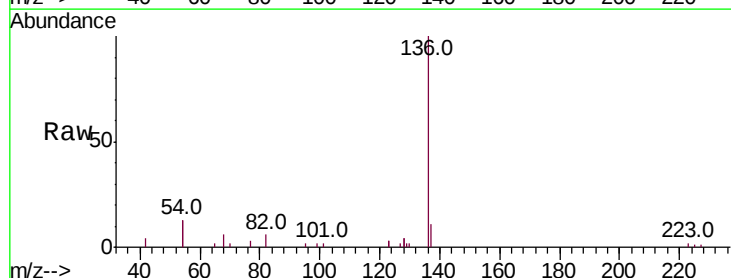
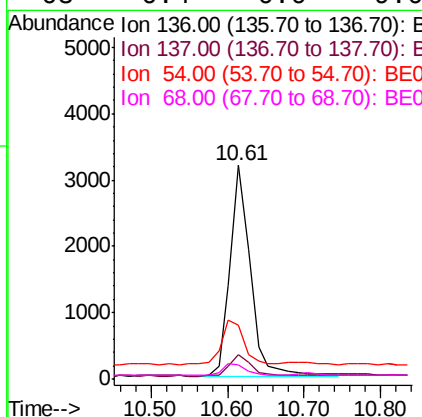
RT: 10.61 min Scan# 650

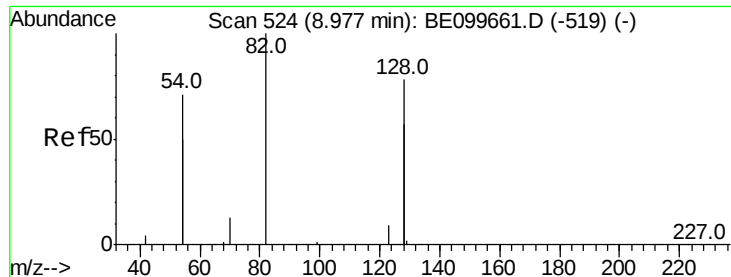
Delta R.T. 0.00 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

Tgt Ion:	136	Resp:	5857
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.0	13.6
54	25.3	22.3	33.5
68	6.4	6.0	9.0





#8

Nitrobenzene-d5

Concen: 0.286 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.00 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

Instrument :

BNA_E

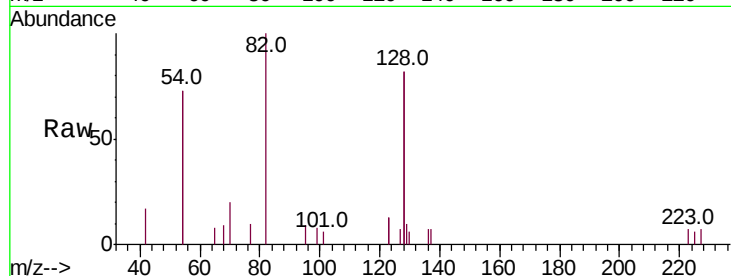
ClientSampleId :

FESB-5(4.5-5)

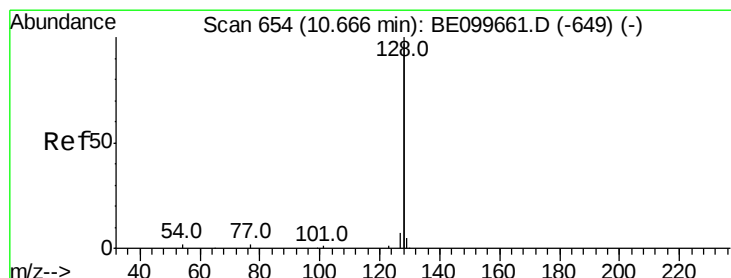
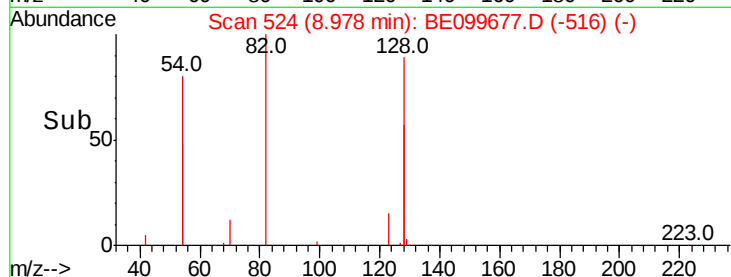
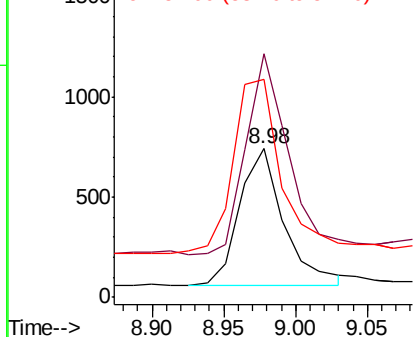
Tot Ion:	82	Resp:	1448
Ion	Ratio	Lower	Upper
82	100		
128	163.6	117.7	176.5
54	146.6	106.6	160.0

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Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.506 ng

RT: 10.67 min Scan# 654

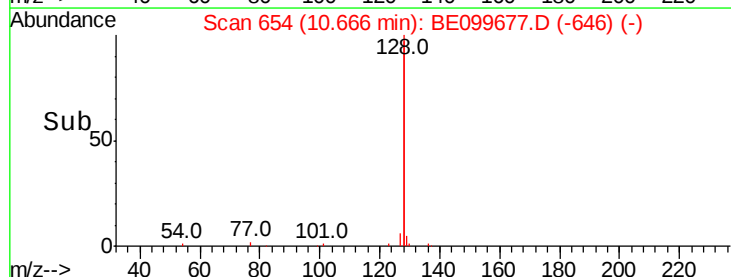
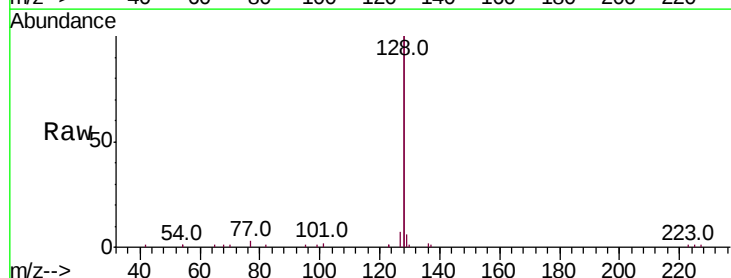
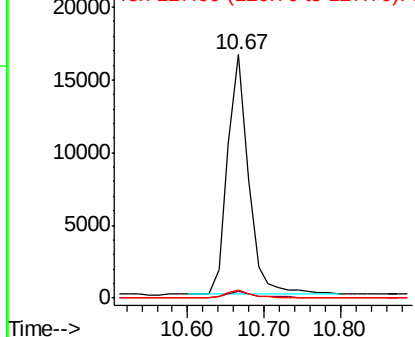
Delta R.T. 0.00 min

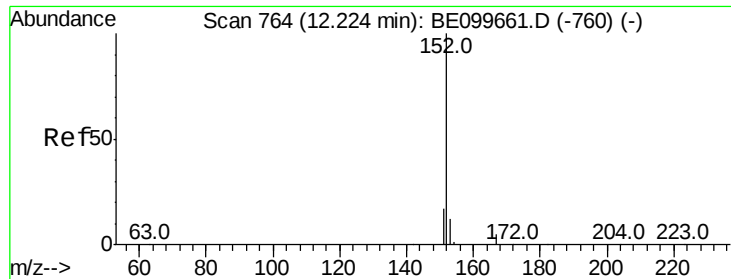
Lab File: BE099677.D

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Tgt Ion:	128	Resp:	31679
Ion	Ratio	Lower	Upper
128	100		
129	3.1	2.4	3.6
127	3.5	2.9	4.3

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





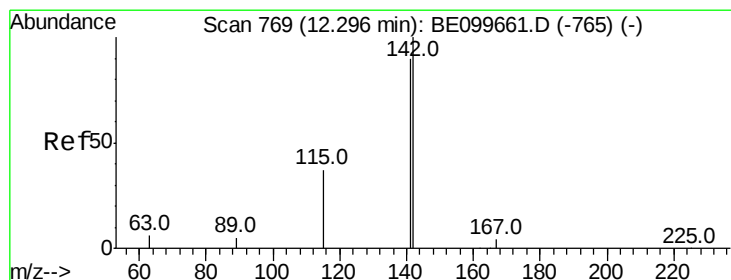
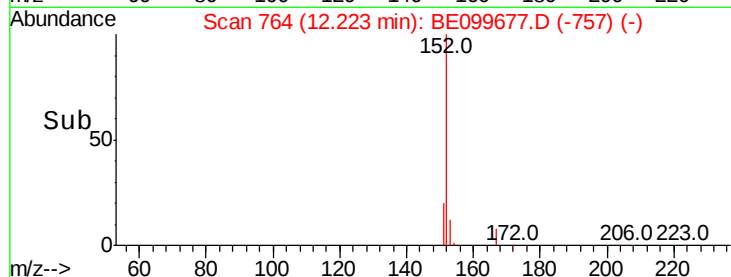
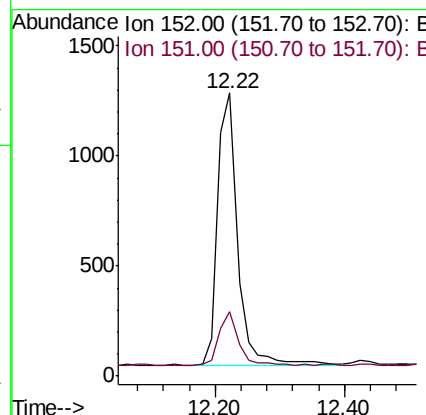
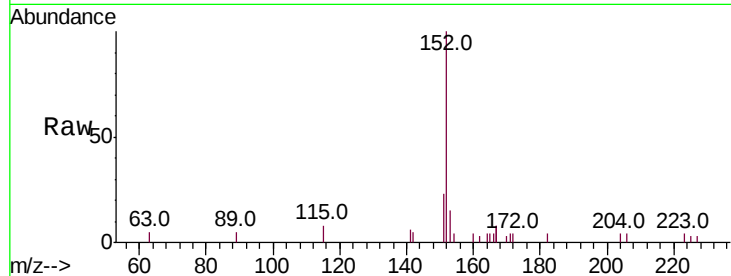
#11
 2-Methylnaphthalene-d10
 Concen: 0.263 ng
 RT: 12.22 min Scan# 764
 Delta R.T. -0.00 min
 Lab File: BE099677.D
 Acq: 21 May 2019 1:20

Instrument :
 BNA_E
 ClientSampled :
 FESB-5(4.5-5)

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.0	22.4

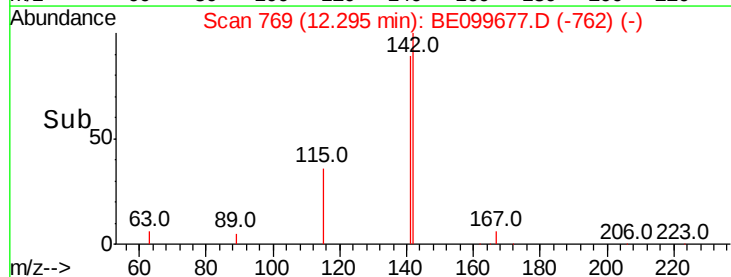
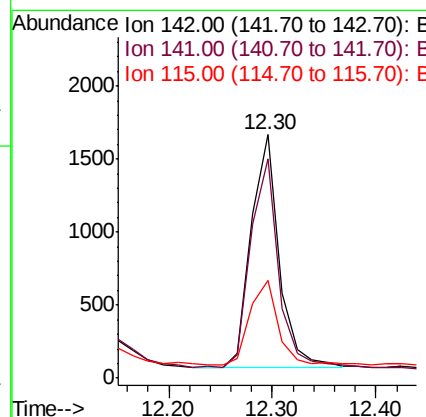
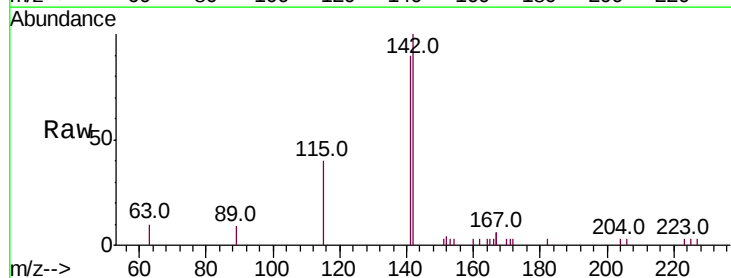
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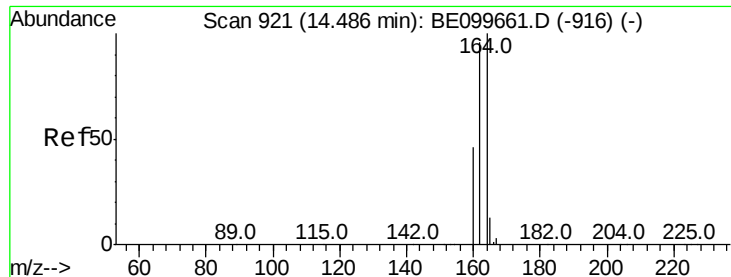
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#12
 2-Methylnaphthalene
 Concen: 0.297 ng
 RT: 12.30 min Scan# 769
 Delta R.T. -0.00 min
 Lab File: BE099677.D
 Acq: 21 May 2019 1:20

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.0	108.0
115	40.2	31.0	46.4





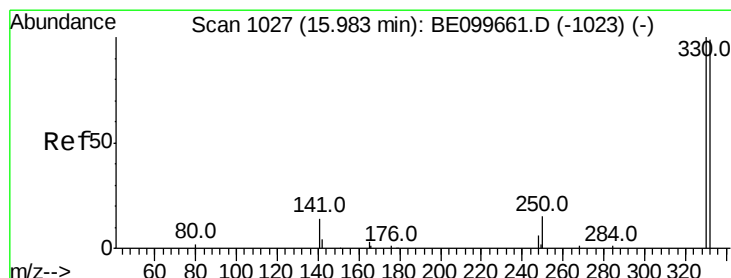
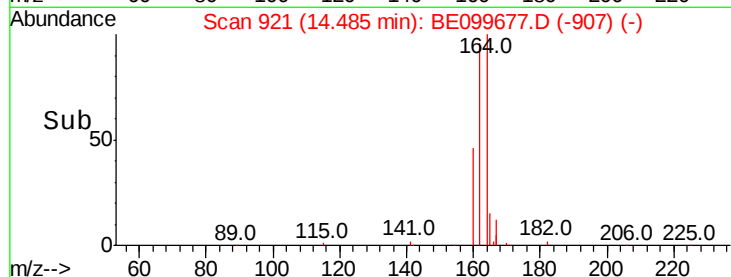
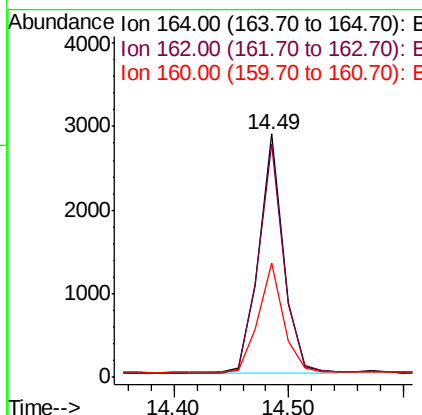
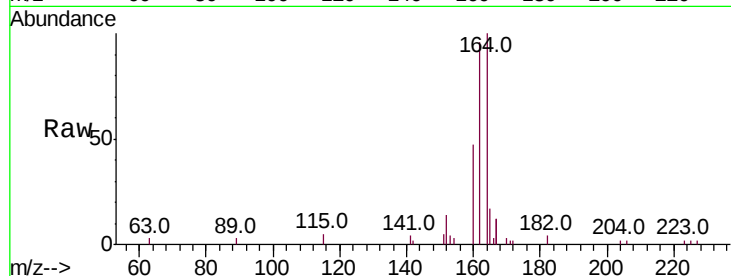
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.49 min Scan# 921
Delta R.T. -0.00 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)

Tot Ion	Ratio	Lower	Upper
164	100		
162	95.6	76.5	114.7
160	46.9	37.4	56.2

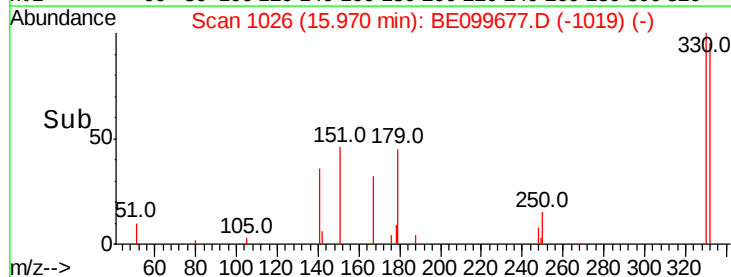
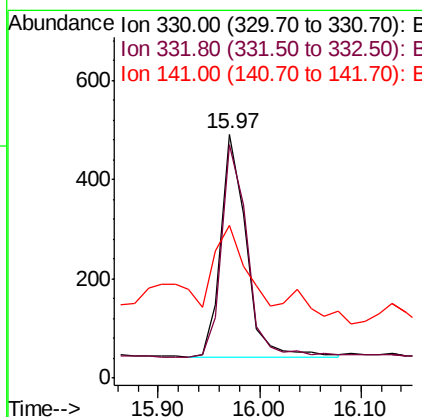
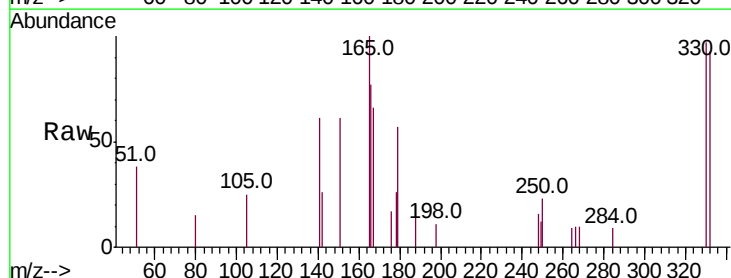
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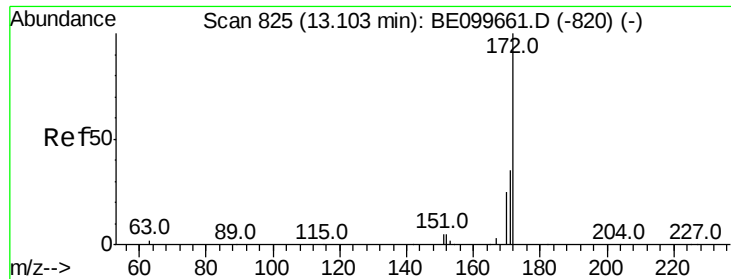
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#14
2,4,6-Tribromophenol
Concen: 0.369 ng
RT: 15.97 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.3	115.9
141	42.9	18.9	28.3#





#15

2-Fluorobiphenyl

Concen: 0.242 ng

RT: 13.10 min Scan# 825

Delta R.T. -0.00 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

Instrument :

BNA_E

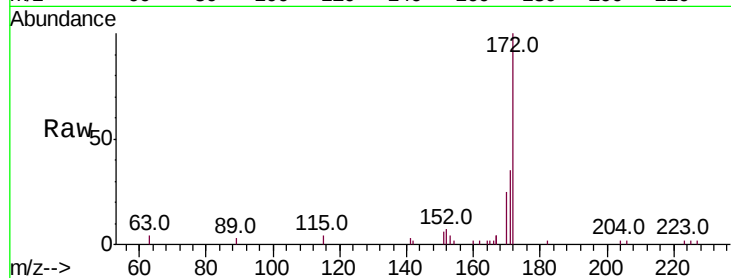
ClientSampleId :

FESB-5(4.5-5)

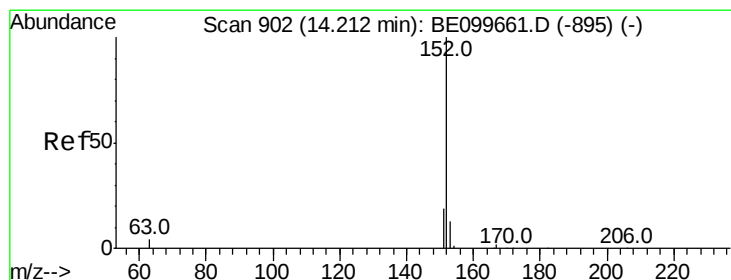
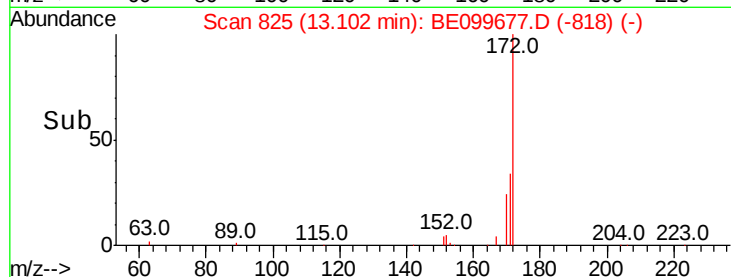
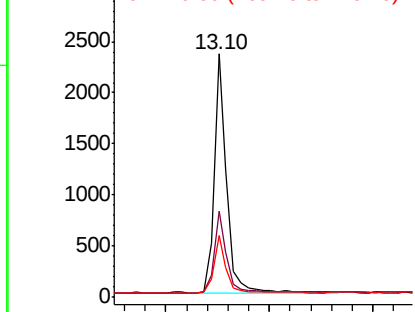
Tot Ion:	172	Resp:	3938
Ion Ratio	Lower	Upper	
172	100		
171	35.4	28.7	43.1
170	25.4	20.9	31.3

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Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 2.144 ng

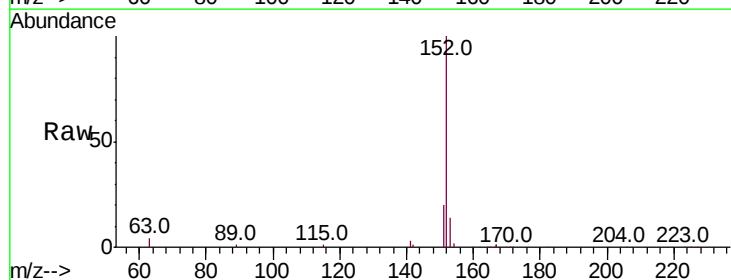
RT: 14.21 min Scan# 902

Delta R.T. -0.00 min

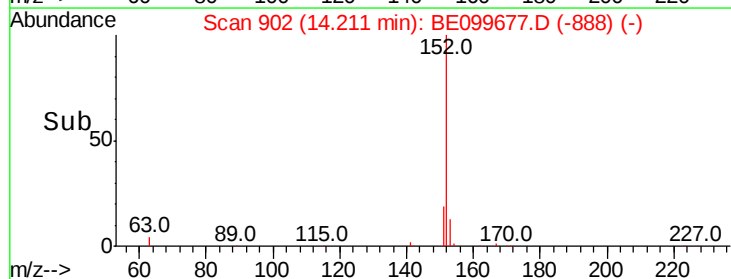
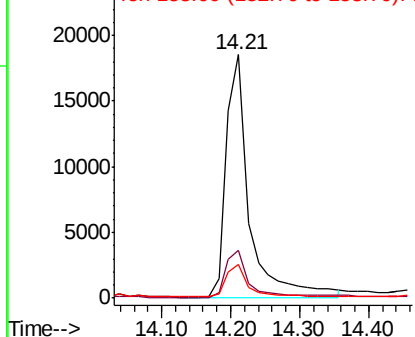
Lab File: BE099677.D

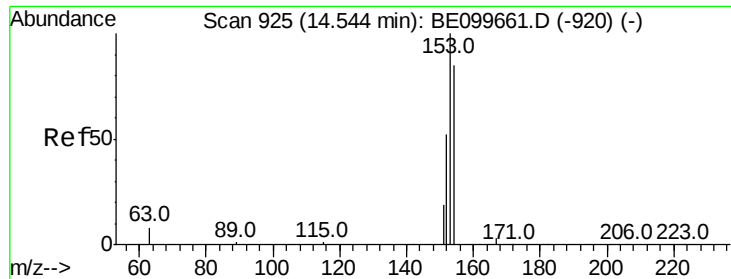
Acq: 21 May 2019 1:20

Tgt Ion:	152	Resp:	42897
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.9	23.9
153	13.2	10.6	16.0



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





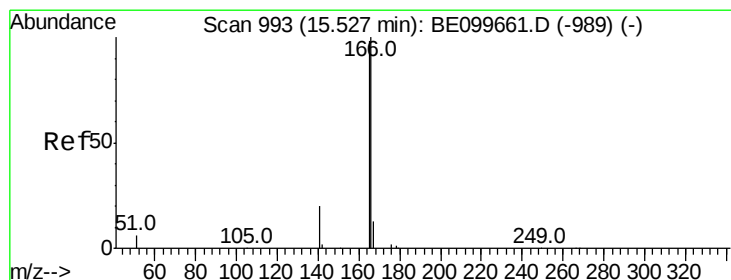
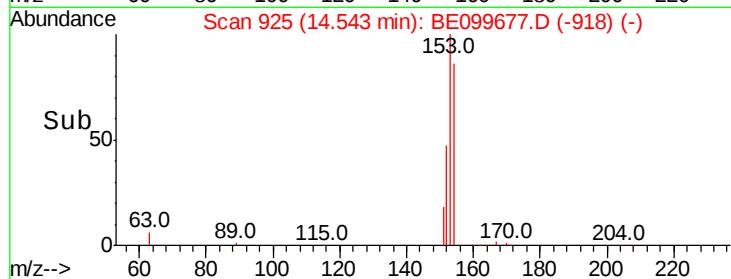
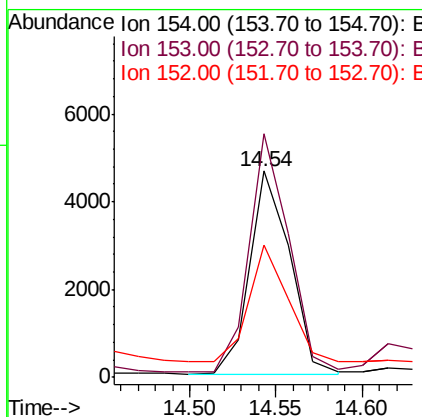
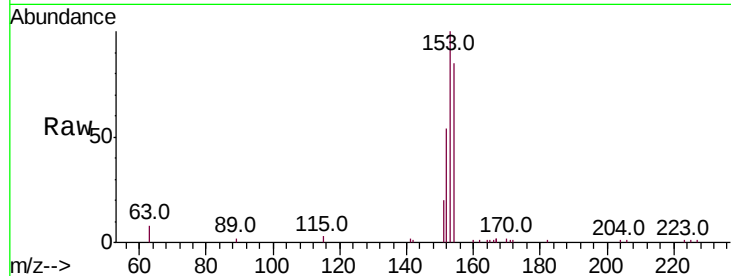
#17
Acenaphthene
Concen: 0.667 ng
RT: 14.54 min Scan# 925
Delta R.T. -0.00 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)

Tot Ion	Ratio	Lower	Upper
154	100		
153	116.3	91.8	137.6
152	55.6	46.0	69.0

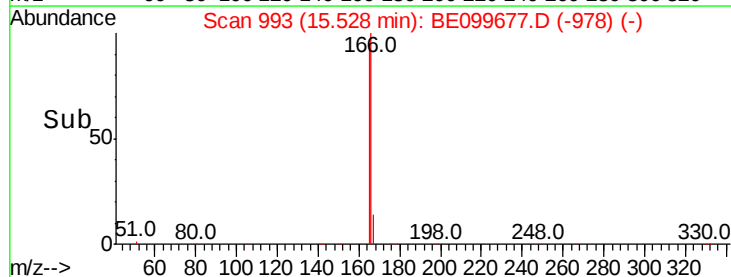
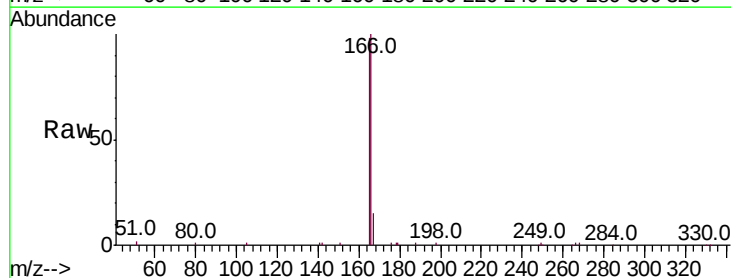
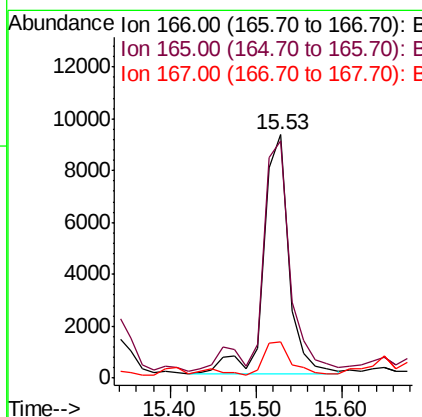
Manual Integrations
APPROVED

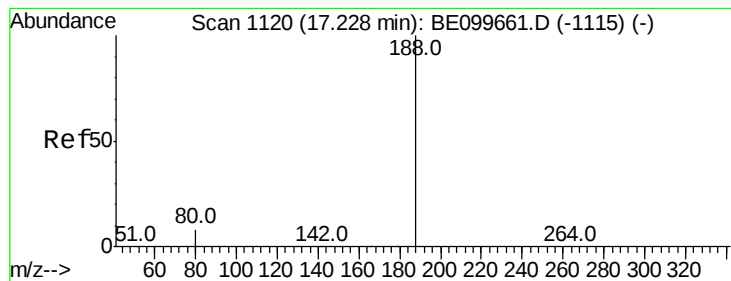
mohammad
5/21/2019 3:26:21 PM



#18
Fluorene
Concen: 1.155 ng
RT: 15.53 min Scan# 993
Delta R.T. 0.00 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Tgt Ion	Ratio	Lower	Upper
166	100		
165	92.9	80.3	120.5
167	14.7	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

Instrument :

BNA_E

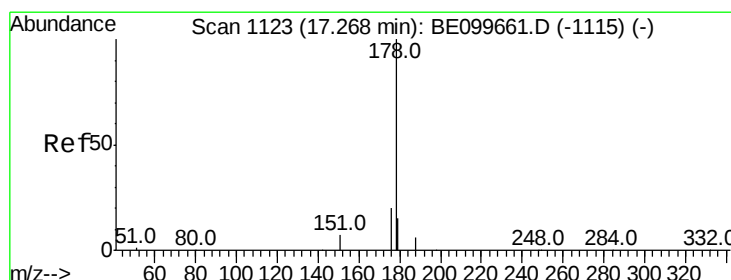
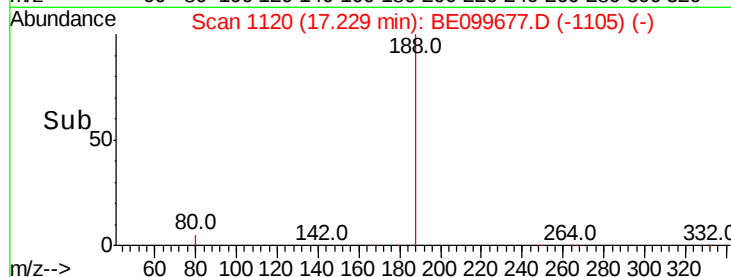
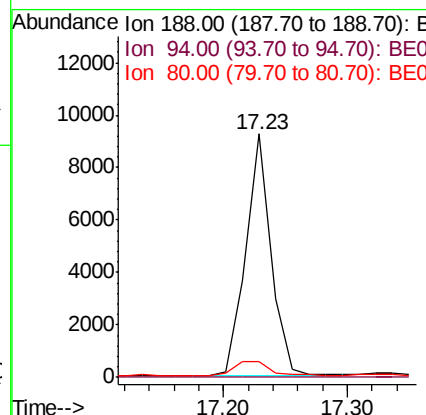
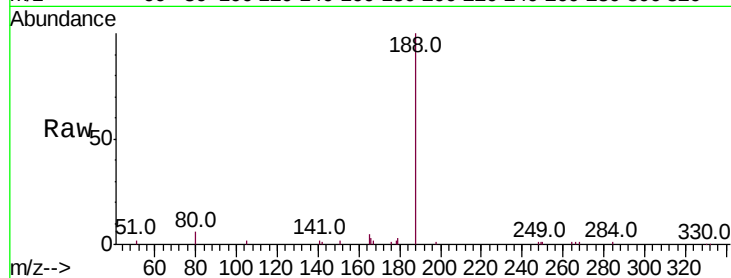
ClientSampleId :

FESB-5(4.5-5)

Tot Ion:	188	Resp:	13090
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	6.3	6.7	10.1#

Manual Integrations
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mohammad
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#23

Phenanthrene

Concen: 14.648 ng

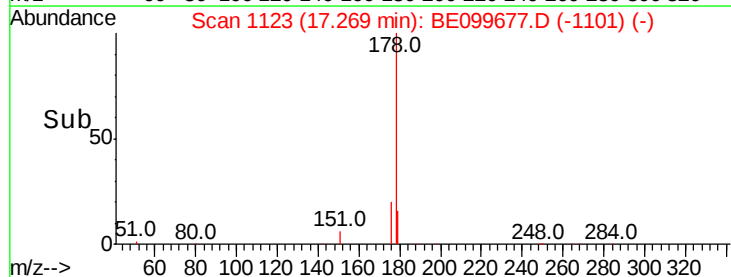
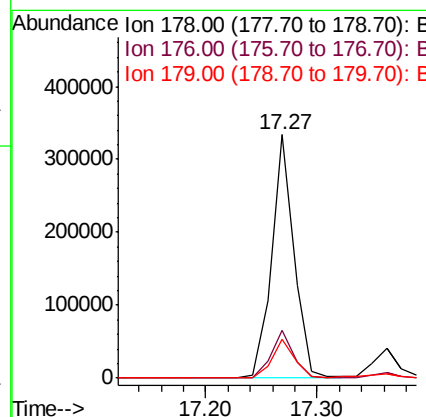
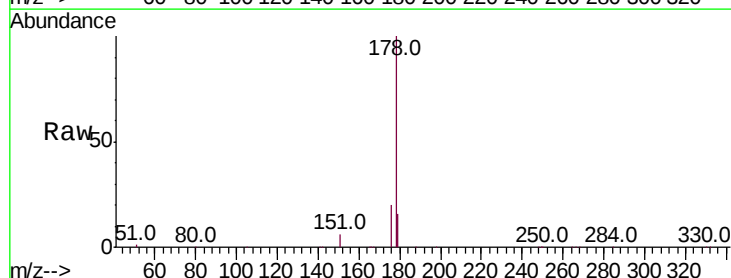
RT: 17.27 min Scan# 1123

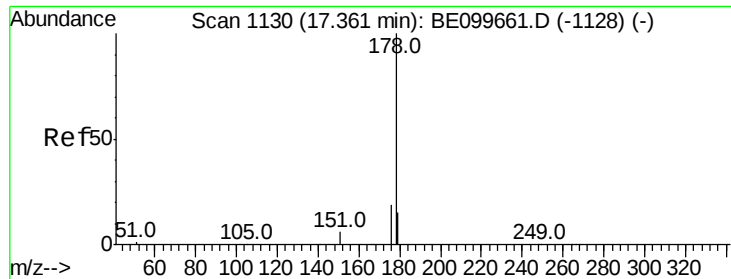
Delta R.T. 0.00 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

Tgt Ion:	178	Resp:	468559
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.6	23.4
179	15.7	12.2	18.4





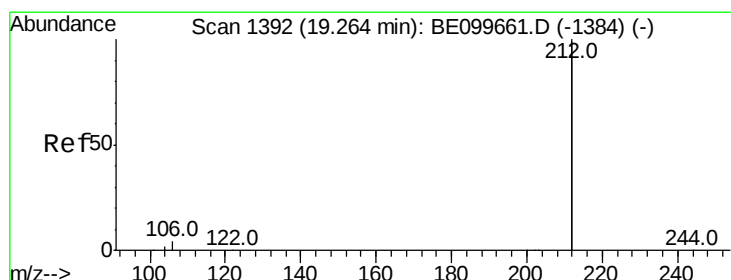
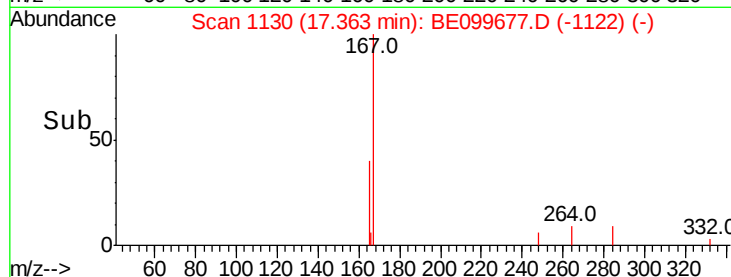
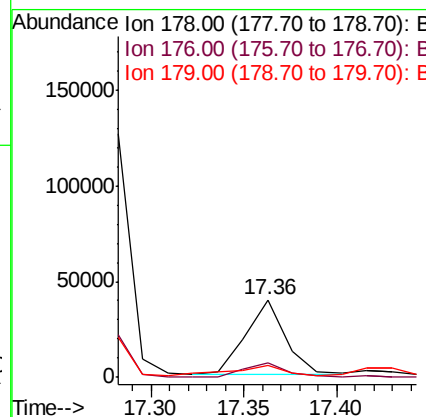
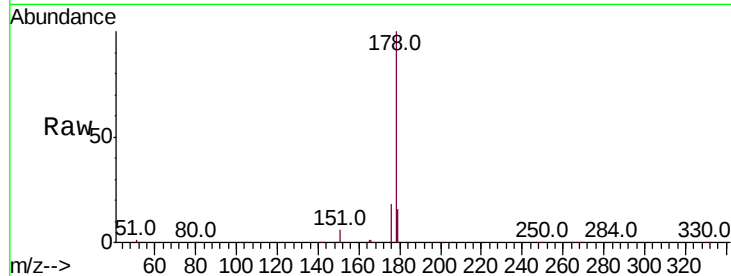
#24
 Anthracene
 Concen: 1.954 ng
 RT: 17.36 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: BE099677.D
 Acq: 21 May 2019 1:20

Instrument :
 BNA_E
 ClientSampleId :
 FESB-5(4.5-5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	14.7	22.1
179	18.4	12.0	18.0#

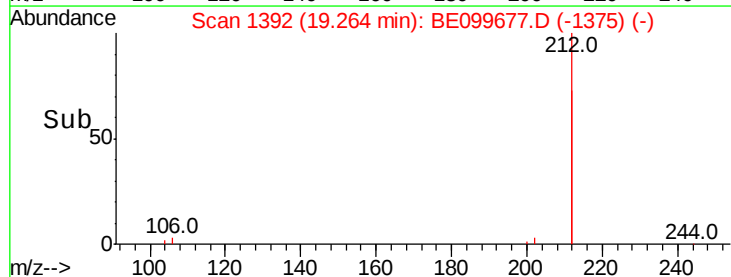
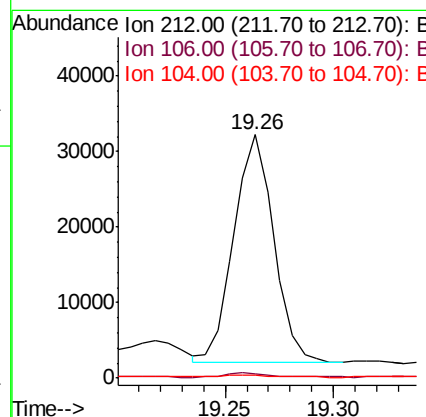
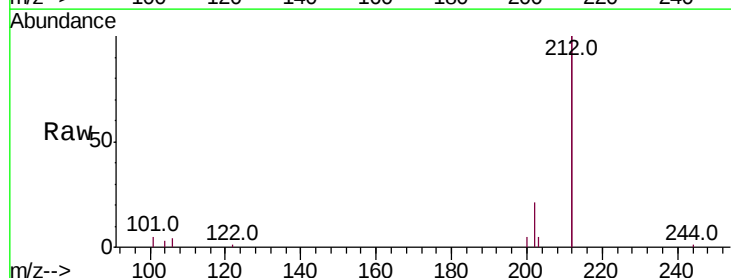
Manual Integrations
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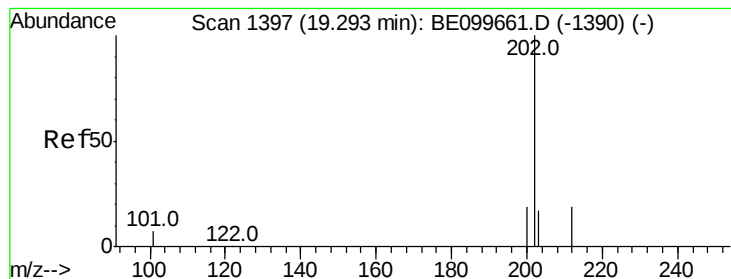
mohammad
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#25
 Fluoranthene-d10
 Concen: 0.216 ng
 RT: 19.26 min Scan# 1392
 Delta R.T. -0.00 min
 Lab File: BE099677.D
 Acq: 21 May 2019 1:20

Tgt Ion	Ratio	Lower	Upper
212	100		
106	2.0	1.4	2.2
104	1.4	0.8	1.2#





#26

Fluoranthene

Concen: 27.413 ng

RT: 19.29 min Scan# 1397

Delta R.T. -0.00 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

Instrument :

BNA_E

ClientSampled :

FESB-5(4.5-5)

Tot Ion:202 Resp: 1386244

Ion Ratio Lower Upper

202 100

101 6.4 5.2 7.8

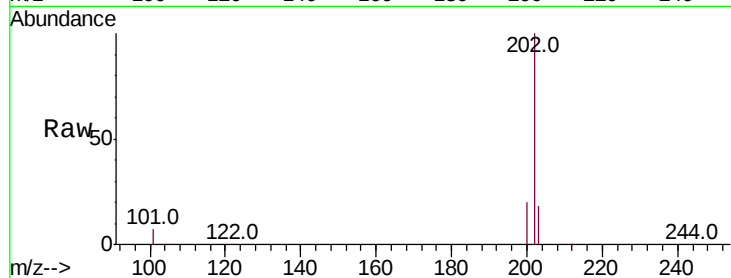
203 18.0 13.8 20.6

Manual Integrations

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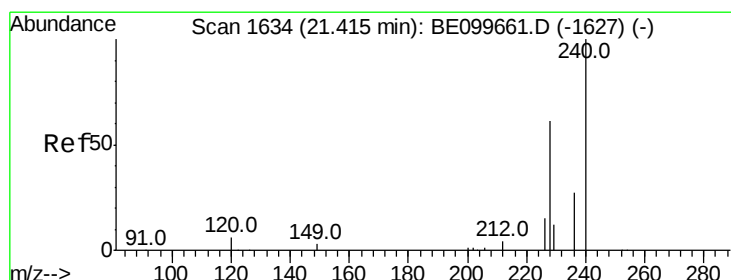
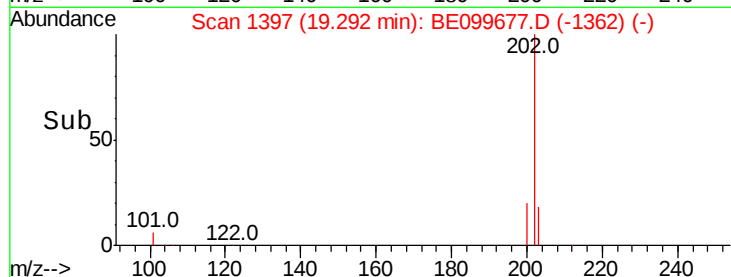
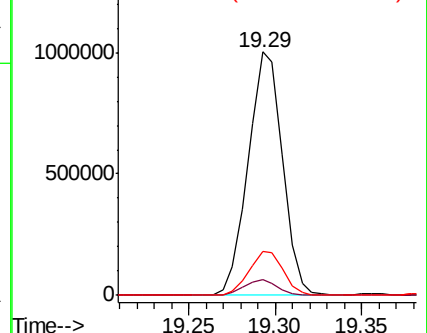
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.41 min Scan# 1634

Delta R.T. -0.00 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

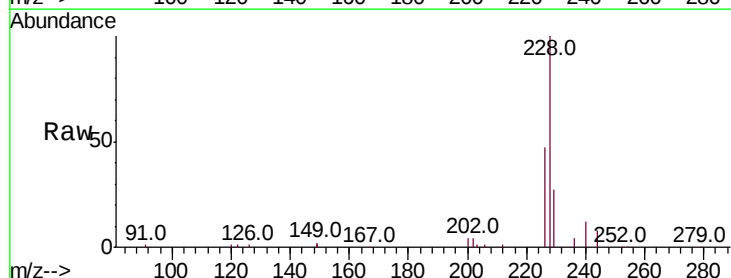
Tgt Ion:240 Resp: 21068

Ion Ratio Lower Upper

240 100

120 5.5 5.4 8.0

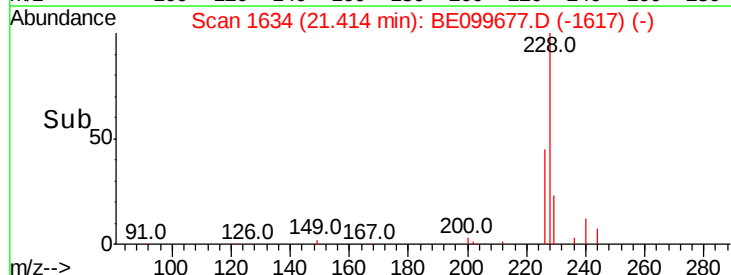
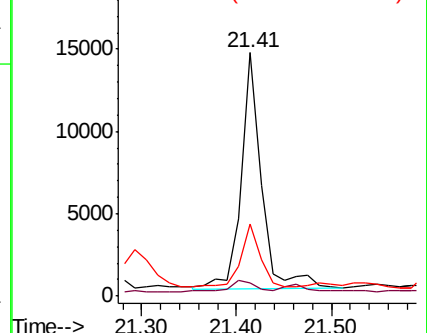
236 29.6 21.7 32.5

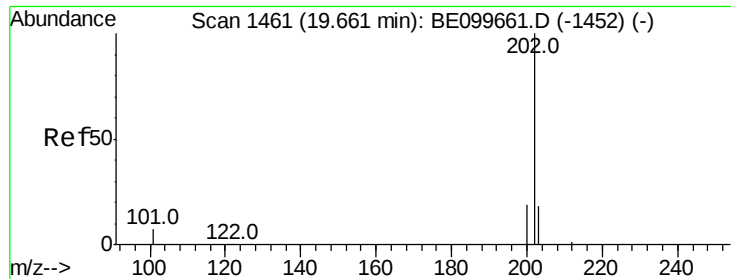


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





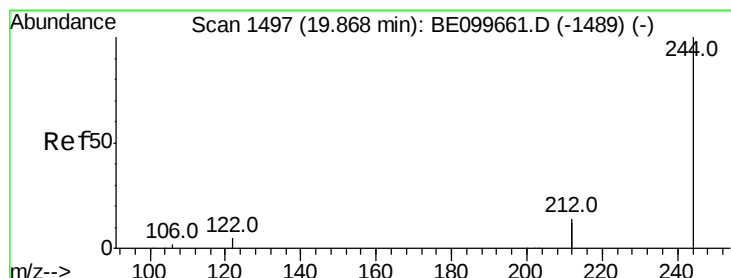
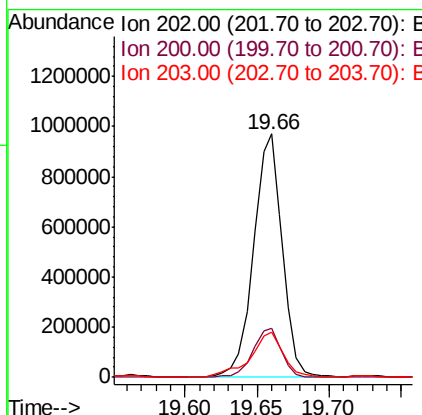
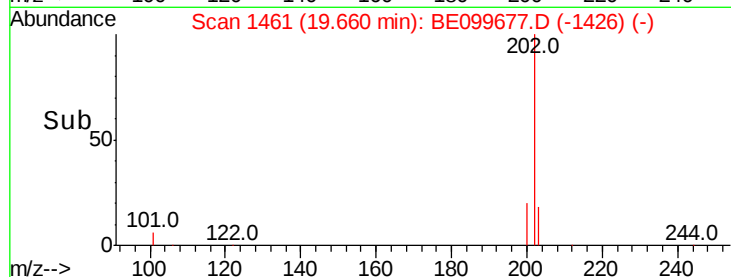
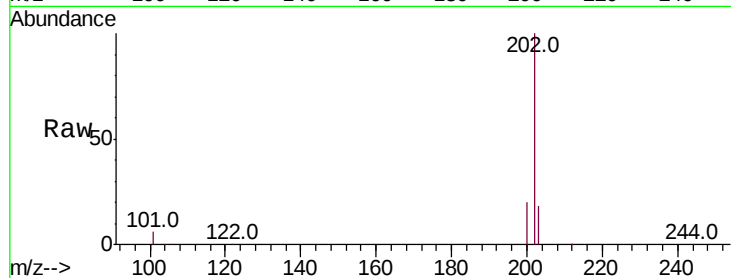
#28
Pvrene
Concen: 25.390 ng
RT: 19.66 min Scan# 1461
Delta R.T. -0.00 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.2	15.4	23.2
203	21.2	13.8	20.8

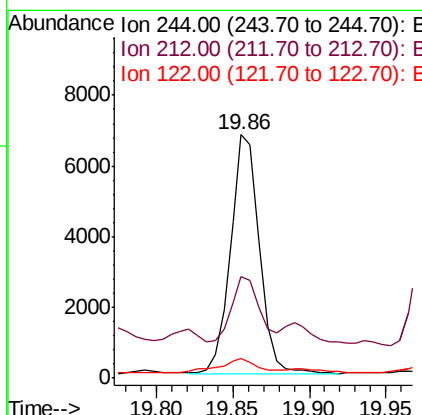
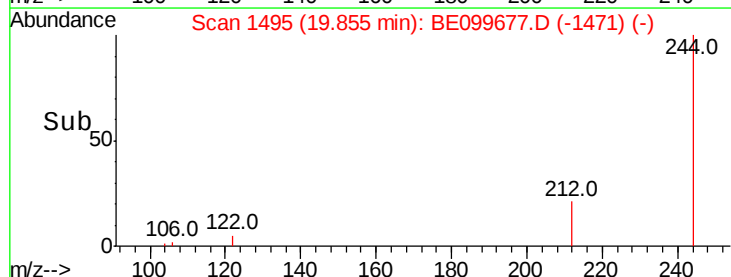
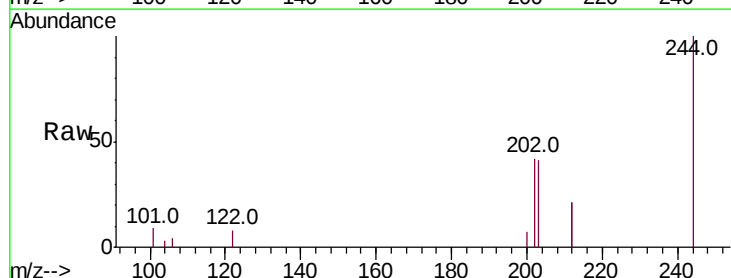
Manual Integrations
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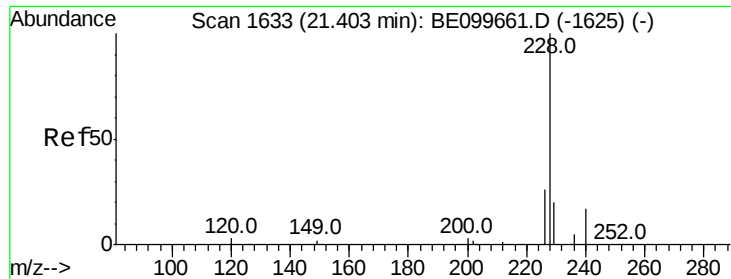
mohammad
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#29
Terphenyl-d14
Concen: 0.239 ng
RT: 19.86 min Scan# 1495
Delta R.T. -0.01 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Tgt Ion	Ratio	Lower	Upper
244	100		
212	41.6	22.5	33.7
122	7.8	4.3	6.5





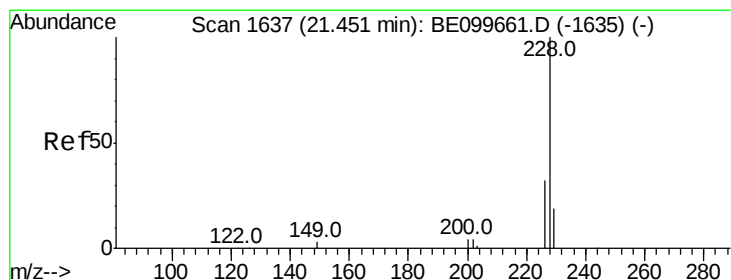
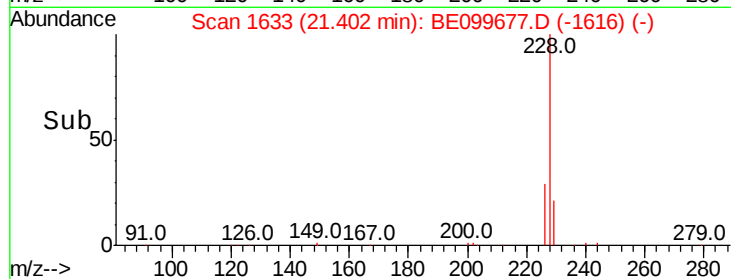
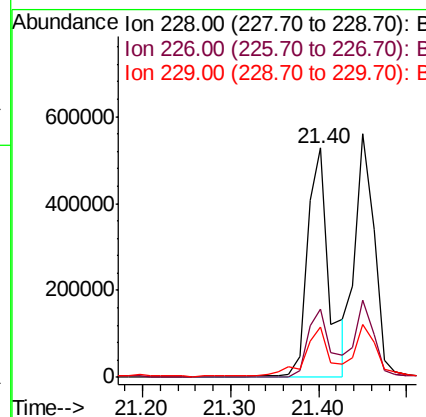
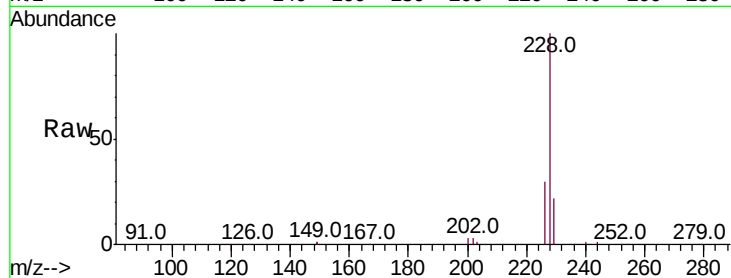
#30
Benzo(a)anthracene
Concen: 15.128 ng
RT: 21.40 min Scan# 1633
Delta R.T. -0.00 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.6	21.3	31.9
229	21.9	16.1	24.1

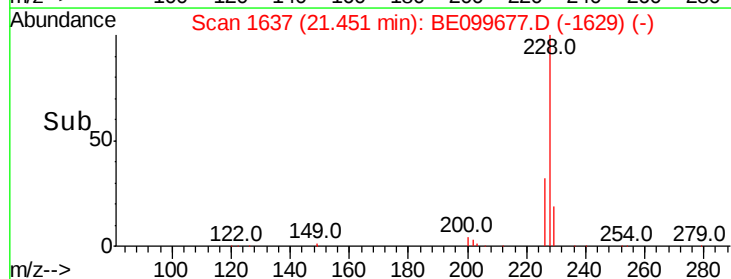
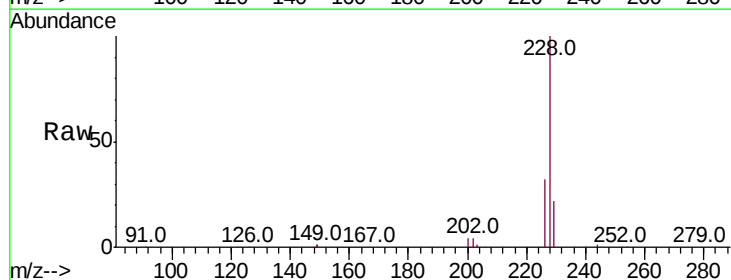
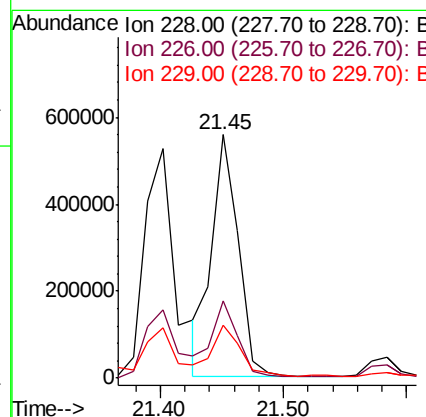
Manual Integrations
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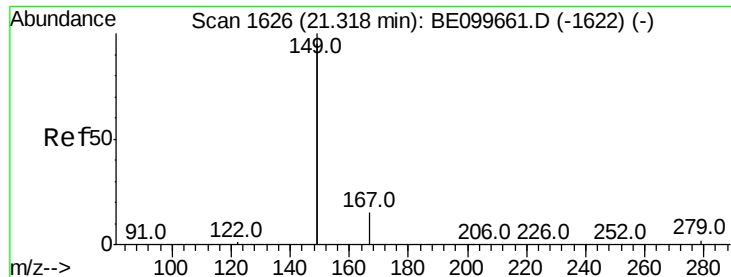
mohammad
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#31
Chrysene
Concen: 13.058 ng
RT: 21.45 min Scan# 1637
Delta R.T. -0.00 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.7	37.1
229	21.5	15.8	23.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 1.782 ng

RT: 21.32 min Scan# 1626

Delta R.T. -0.00 min

Lab File: BE099677.D

Acq: 21 May 2019 1:20

Instrument :

BNA_E

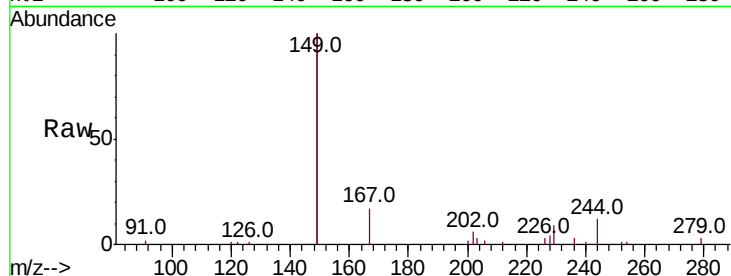
ClientSampled :

FESB-5(4.5-5)

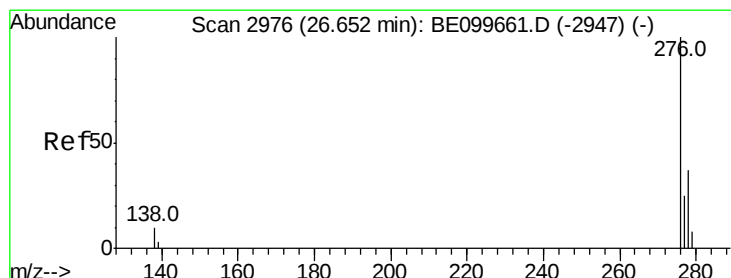
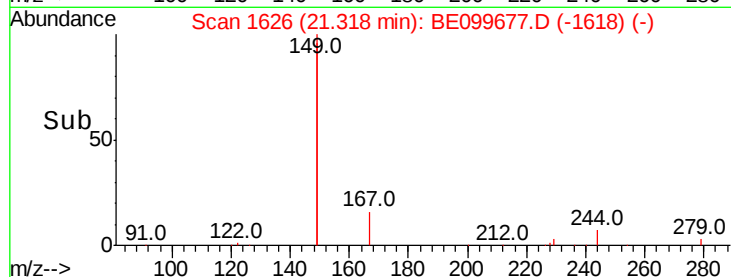
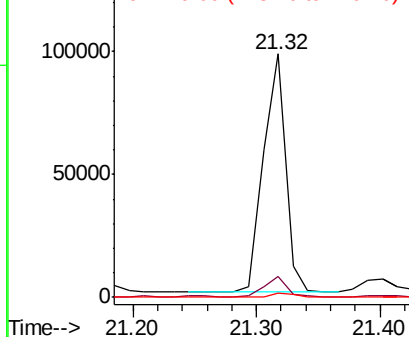
Tot Ion:	149	Resp:	122930
Ion Ratio	Lower	Upper	
149	100		
167	7.8	6.2	9.4
279	1.5	1.2	1.8

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 8.210 ng

RT: 26.65 min Scan# 2976

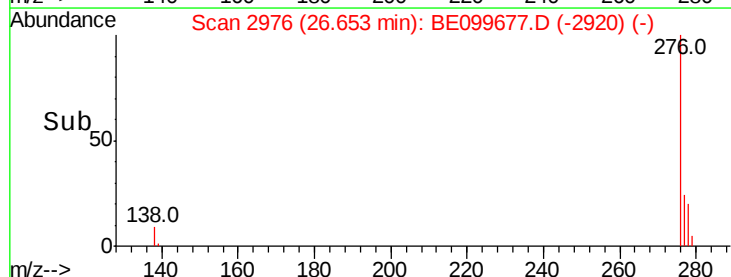
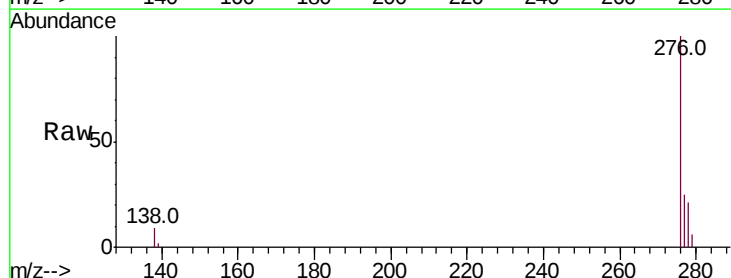
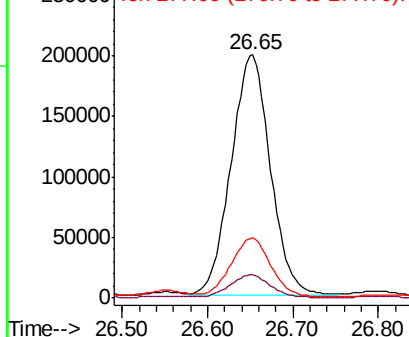
Delta R.T. 0.00 min

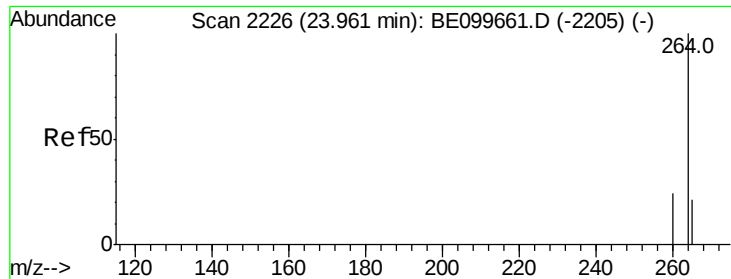
Lab File: BE099677.D

Acq: 21 May 2019 1:20

Tgt Ion:	276	Resp:	634444
Ion Ratio	Lower	Upper	
276	100		
138	9.6	9.6	14.4
277	24.7	19.2	28.8

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





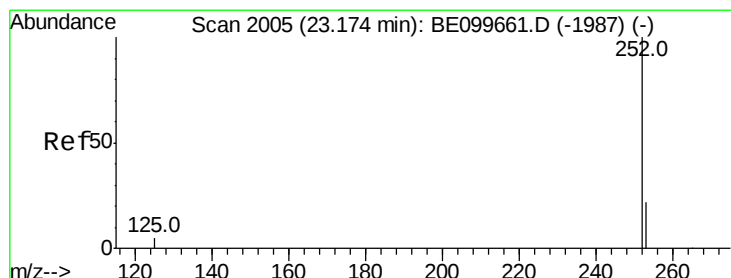
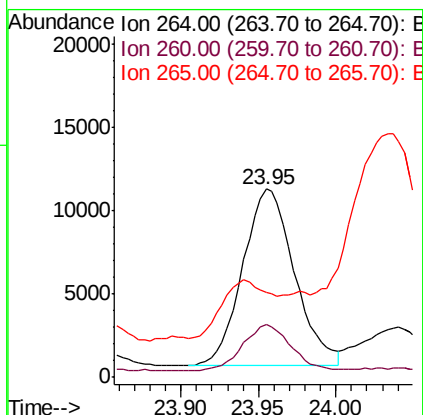
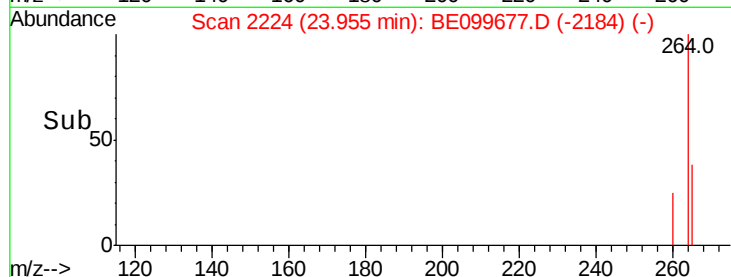
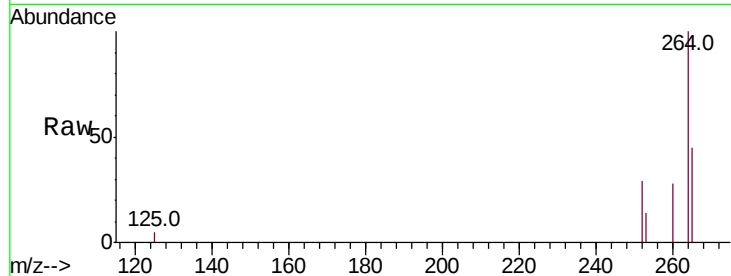
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.95 min Scan# 2224
Delta R.T. -0.01 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.9	19.6	29.4
265	44.9	19.1	28.7

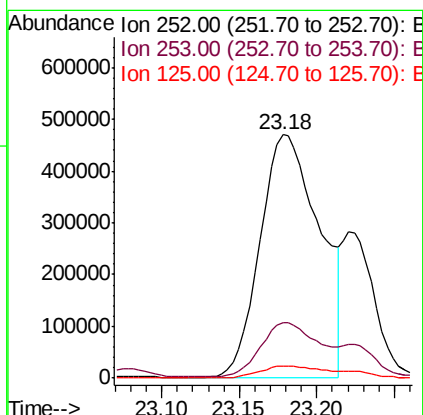
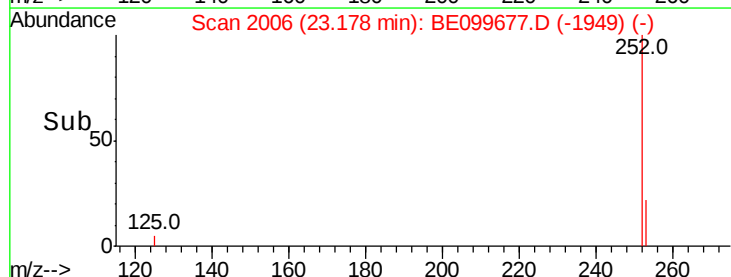
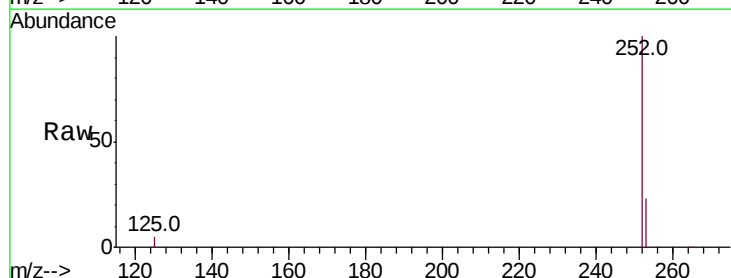
Manual Integrations
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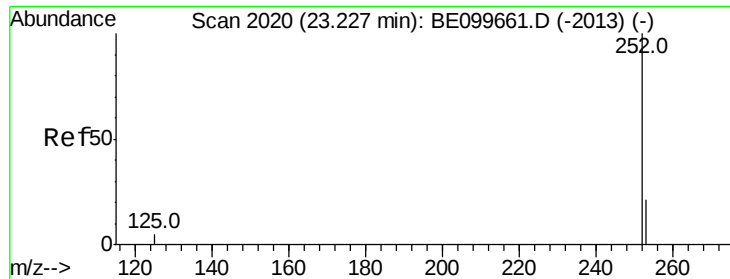
mohammad
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#35
Benzo(b)fluoranthene
Concen: 18.607 ng
RT: 23.18 min Scan# 2006
Delta R.T. 0.00 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.4
125	4.8	4.5	6.7





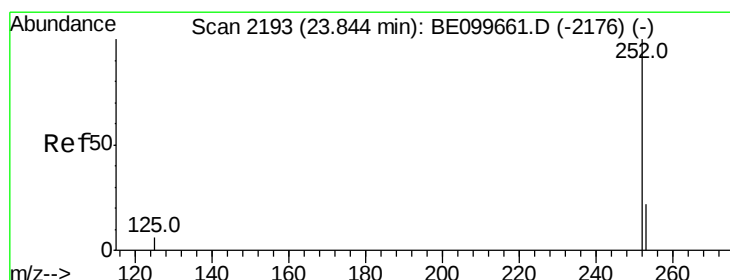
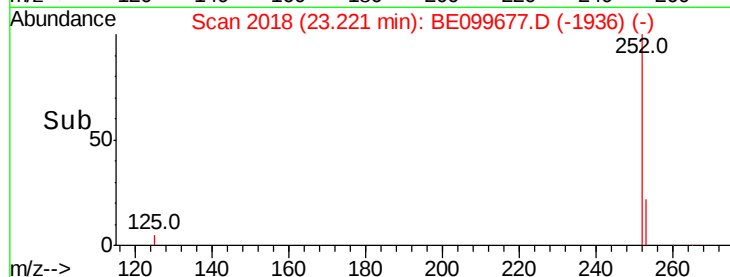
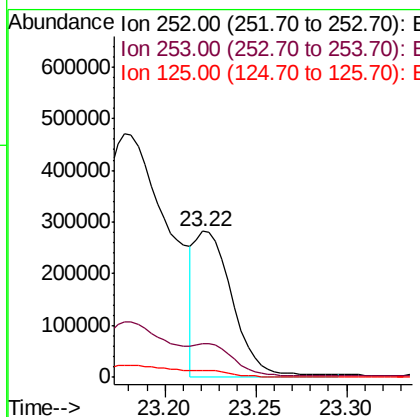
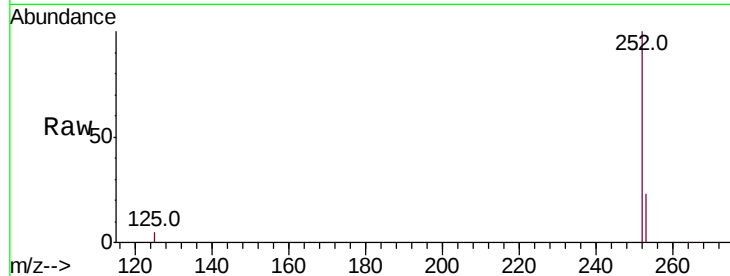
#36
Benzo(k)fluoranthene
Concen: 5.930 ng m
RT: 23.22 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)

Tot Ion:252 Resp: 415483
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.8
125 4.9 4.6 6.8

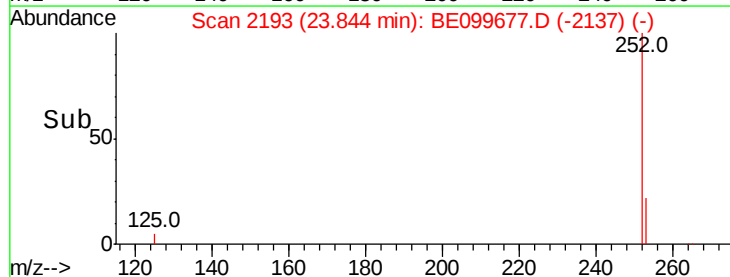
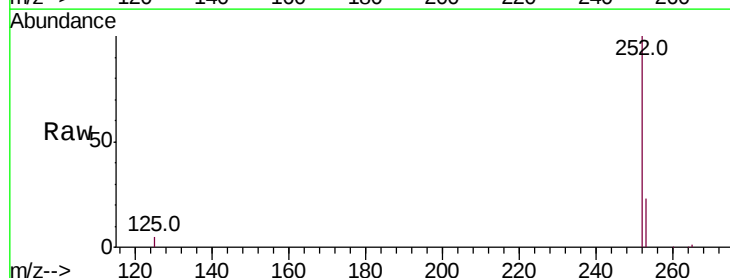
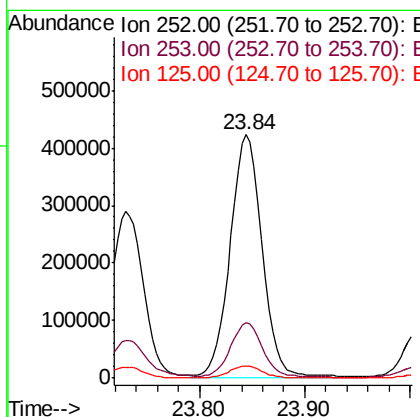
Manual Integrations
APPROVED

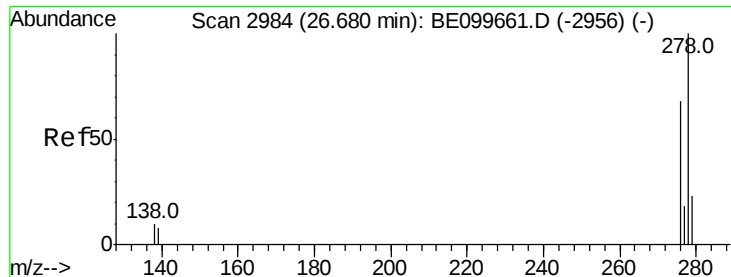
mohammad
5/21/2019 3:26:21 PM



#37
Benzo(a)pyrene
Concen: 13.880 ng m
RT: 23.84 min Scan# 2193
Delta R.T. 0.00 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Tgt Ion:252 Resp: 897739
Ion Ratio Lower Upper
252 100
253 23.0 18.9 28.3
125 5.1 5.4 8.0#





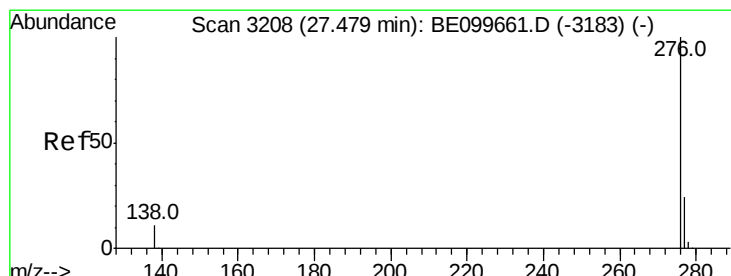
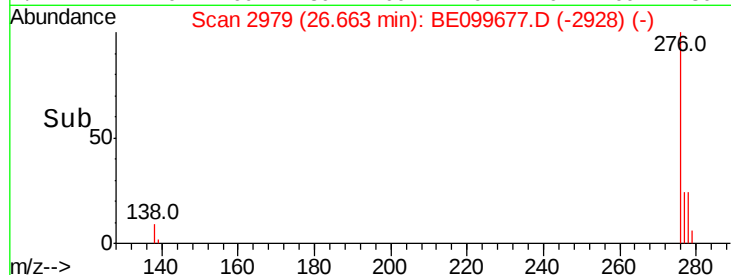
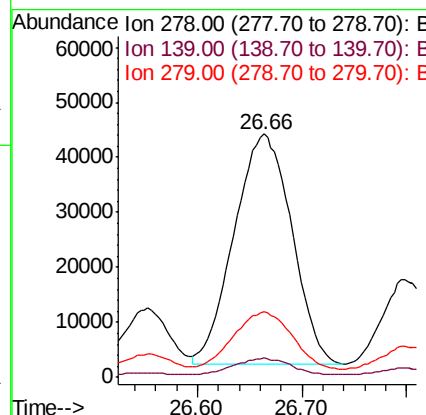
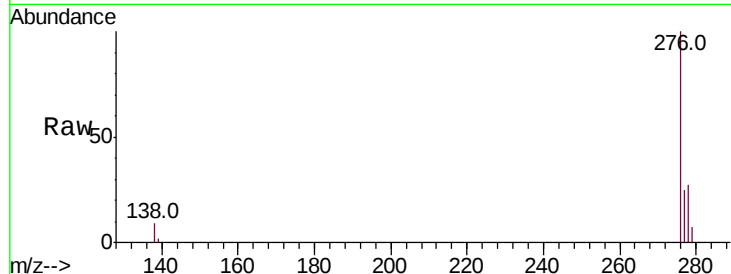
#38
Dibenzo(a,h)anthracene
Concen: 2.351 ng
RT: 26.66 min Scan# 2979
Delta R.T. -0.02 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Instrument :
BNA_E
ClientSampleId :
FESB-5(4.5-5)

Tot Ion:278	Resp:	159671
Ion Ratio	Lower	Upper
278	100	
139	7.8	6.9 10.3
279	26.9	19.2 28.8

Manual Integrations
APPROVED

mohammad
5/21/2019 3:26:21 PM



#39
Benzo(g,h,i)perylene
Concen: 8.987 ng
RT: 27.49 min Scan# 3210
Delta R.T. 0.01 min
Lab File: BE099677.D
Acq: 21 May 2019 1:20

Tgt Ion:276	Resp:	616384
Ion Ratio	Lower	Upper
276	100	
277	24.4	19.8 29.6
138	9.8	9.2 13.8

