

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050319\
 Data File : BE099542.D
 Acq On : 3 May 2019 22:32
 Operator : JU/SJ
 Sample : K2568-03
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-025-SW028-042219

Manual Integrations
 APPROVED

mohammad
 5/7/2019 11:57:20 PM

Quant Time: May 04 02:26:33 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE042919.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Apr 29 18:36:43 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	2251	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	8910	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7208	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	20291	0.40	ng	0.01
27) Chrysene-d12	21.38	240	23924	0.40	ng	0.01
34) Perylene-d12	23.88	264	28102	0.40	ng	0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.39	112	1777	0.29	ng	0.00
5) Phenol-d6	6.97	99	2479	0.30	ng	0.00
8) Nitrobenzene-d5	8.97	82	2142	0.26	ng	0.00
11) 2-Methylnaphthalene-d10	12.21	152	4162	0.26	ng	0.01
14) 2,4,6-Tribromophenol	15.94	330	1401	0.31	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	6264	0.23	ng	0.00
25) Fluoranthene-d10	19.23	212	59230	0.22	ng	0.01
29) Terphenyl-d14	19.82	244	13353	0.30	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.65	128	2112	0.022	ng	# 91
12) 2-Methylnaphthalene	12.28	142	442	0.026	ng	# 80
16) Acenaphthylene	14.18	152	2577	0.073	ng	97
17) Acenaphthene	14.53	154	567	0.028	ng	93
18) Fluorene	15.50	166	1695	0.057	ng	# 95
23) Phenanthrene	17.24	178	54626	1.043	ng	99
24) Anthracene	17.33	178	3704	0.074	ng	# 87
26) Fluoranthene	19.26	202	236209	3.012	ng	99
28) Pyrene	19.62	202	203967	3.271	ng	# 95
30) Benzo(a)anthracene	21.35	228	106655	1.399	ng	97
31) Chrysene	21.41	228	150225	2.014	ng	97
32) Bis(2-ethylhexyl)phthalate	21.27	149	88146	0.748	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.54	276	85933	0.975	ng	# 94
35) Benzo(b)fluoranthene	23.11	252	204624	2.525	ng	98
36) Benzo(k)fluoranthene	23.16	252	67938m	0.869	ng	
37) Benzo(a)pyrene	23.77	252	115209	1.504	ng	99
38) Dibenzo(a,h)anthracene	26.56	278	17898	0.228	ng	# 75
39) Benzo(g,h,i)perylene	27.37	276	82557	1.052	ng	96

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

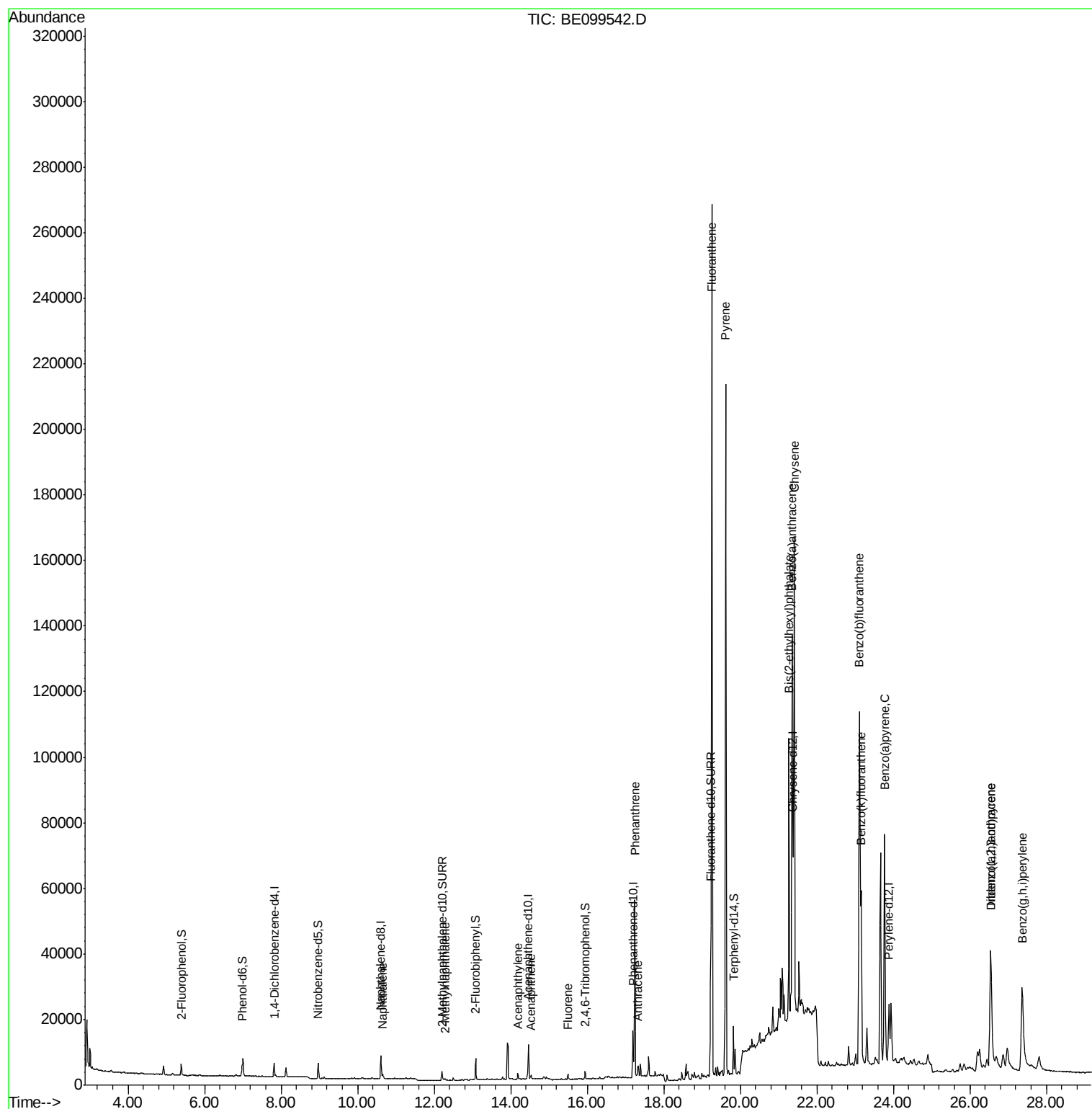
Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE050319\
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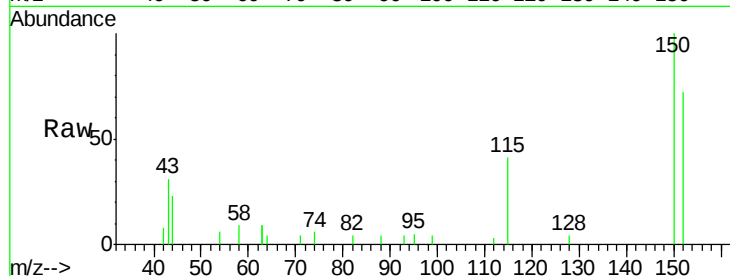




#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.82 min Scan# 430
Delta R.T. 0.00 min
Lab File: BE099542.D
Acq: 3 May 2019 22:32

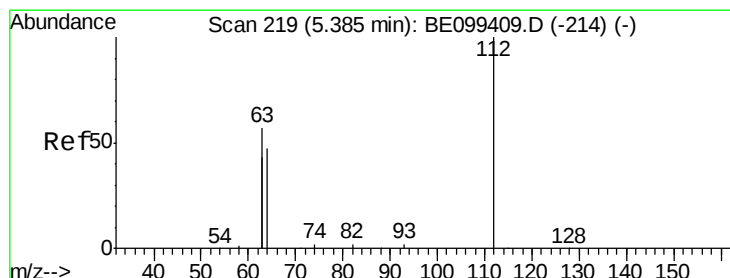
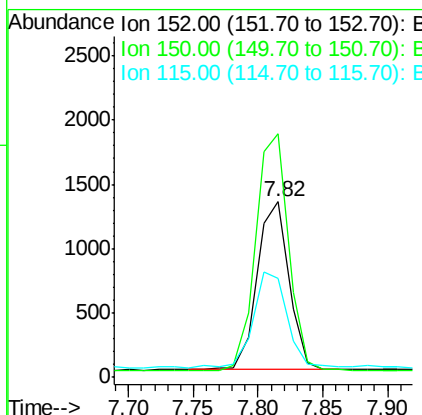
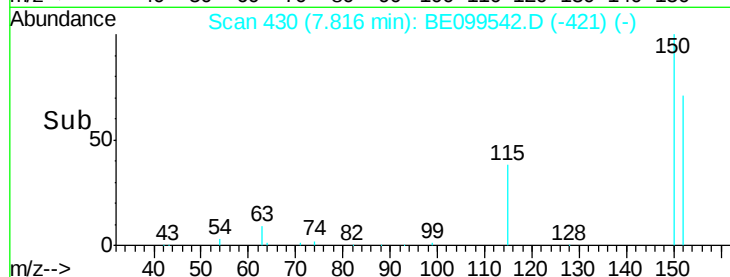
Instrument :
BNA_E
ClientSampleId :
EXT-025-SW028-042219



Tgt Ion	Ratio	Lower	Upper
152	100		
150	138.8	104.8	157.2
115	56.5	46.6	69.8

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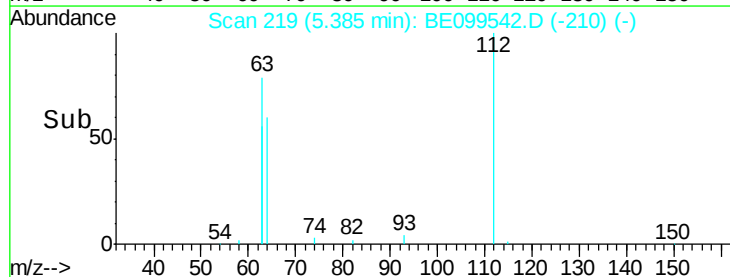
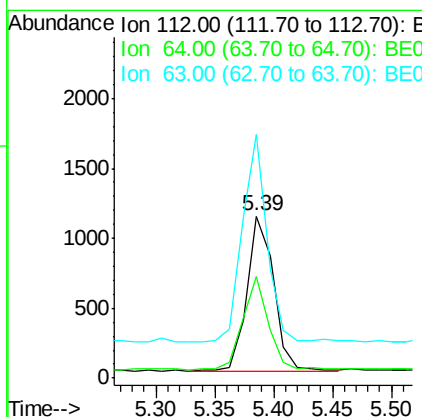
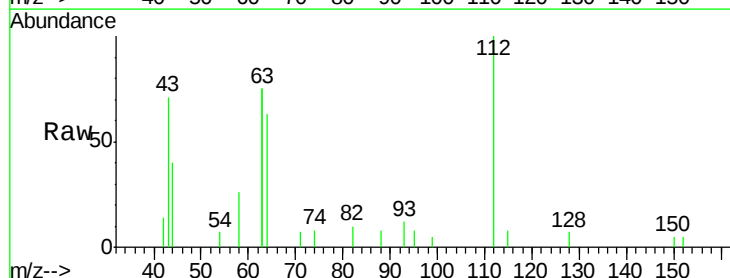
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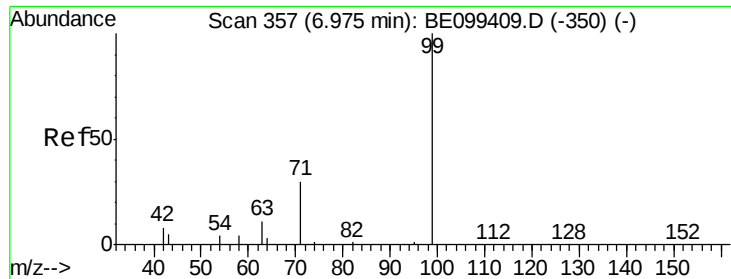


#4

2-Fluorophenol
Concen: 0.286 ng
RT: 5.39 min Scan# 219
Delta R.T. 0.00 min
Lab File: BE099542.D
Acq: 3 May 2019 22:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.7	47.4	71.0
63	120.8	104.3	156.5





#5

Phenol-d6

Concen: 0.299 ng

RT: 6.97 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

Instrument :

BNA_E

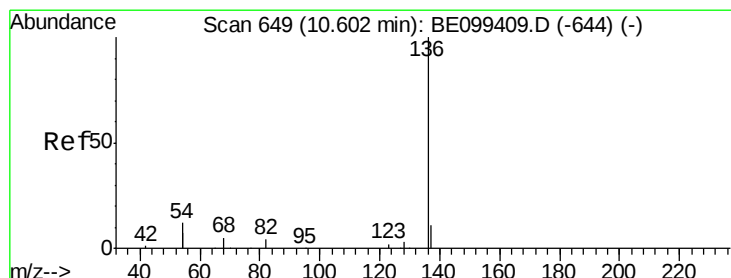
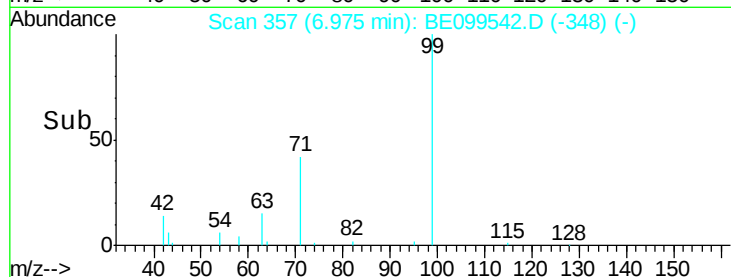
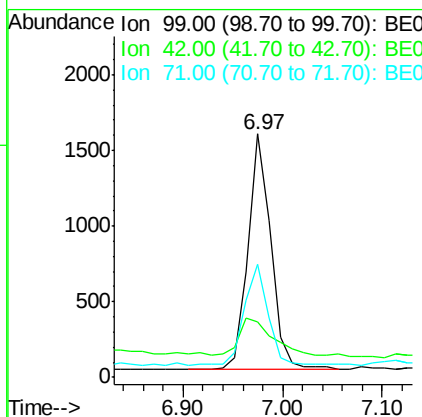
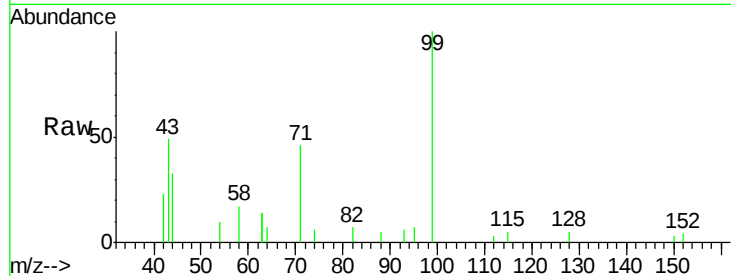
ClientSampleId :

EXT-025-SW028-042219

Tgt Ion:	99	Resp:	2479
Ion	Ratio	Lower	Upper
99	100		
42	29.7	14.9	22.3#
71	45.2	33.0	49.6

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#7

Naphthalene-d8

Concen: 0.400 ng

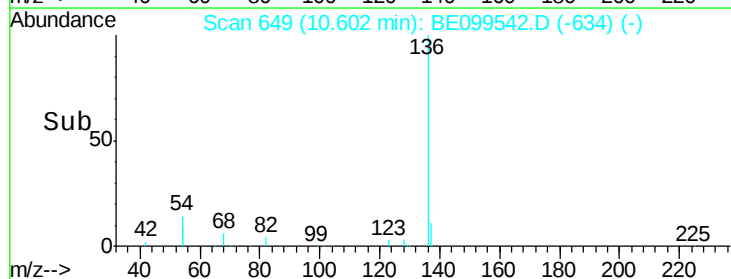
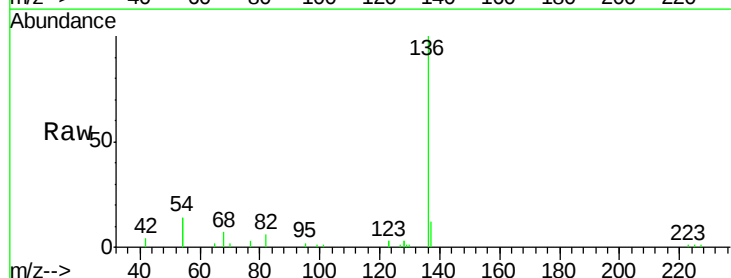
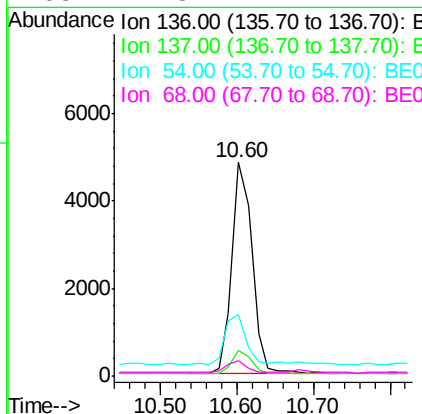
RT: 10.60 min Scan# 649

Delta R.T. 0.00 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

Tgt Ion:	136	Resp:	8910
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	28.6	18.5	27.7#
68	7.3	4.7	7.1#





#8

Nitrobenzene-d5

Concen: 0.256 ng

RT: 8.97 min Scan# 523

Delta R.T. 0.00 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

Instrument :

BNA_E

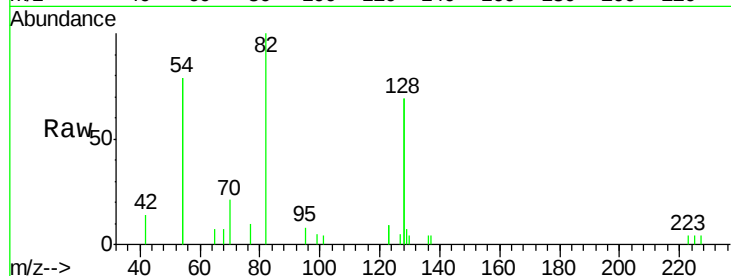
ClientSampleId :

EXT-025-SW028-042219

Tgt Ion:	82	Resp:	2142
Ion Ratio	Lower	Upper	
82	100		
128	138.2	107.0	160.4
54	157.4	113.1	169.7

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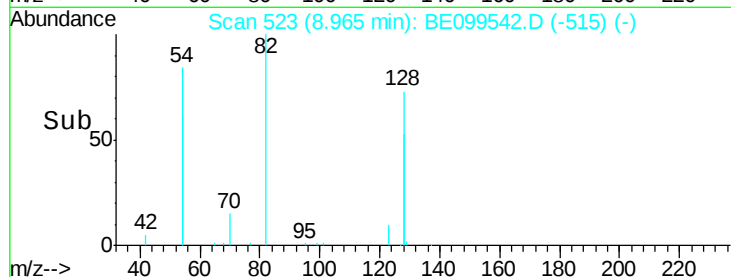


Abundance Ion 82.00 (81.70 to 82.70): BE099542.D (-515) (-)

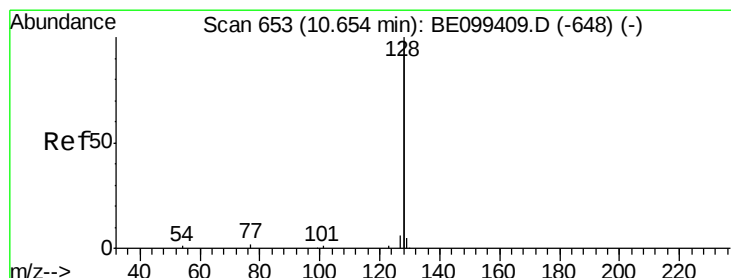
Ion 128.00 (127.70 to 128.70): BE099542.D (-515) (-)

Ion 54.00 (53.70 to 54.70): BE099542.D (-515) (-)

Time-->



Time-->



#9

Naphthalene

Concen: 0.022 ng

RT: 10.65 min Scan# 653

Delta R.T. 0.00 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

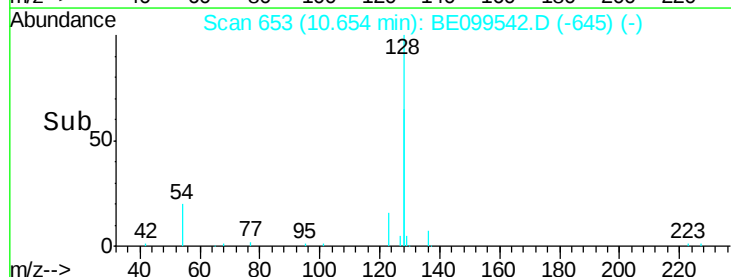
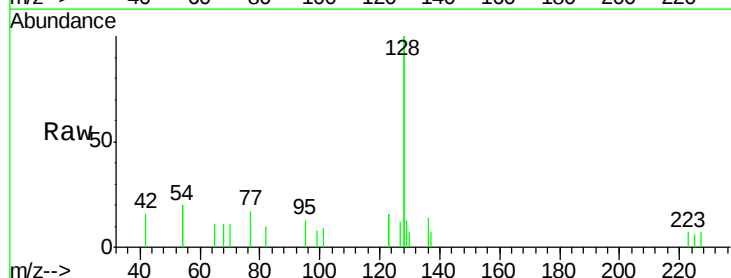
Tgt Ion:	128	Resp:	2112
Ion Ratio	Lower	Upper	
128	100		
129	6.7	2.4	3.6#
127	6.0	2.8	4.2#

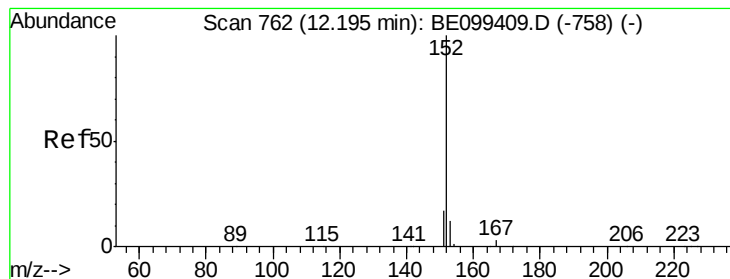
Abundance Ion 128.00 (127.70 to 128.70): BE099542.D (-645) (-)

Ion 129.00 (128.70 to 129.70): BE099542.D (-645) (-)

Ion 127.00 (126.70 to 127.70): BE099542.D (-645) (-)

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.259 ng

RT: 12.21 min Scan# 763

Delta R.T. 0.01 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW028-042219

Tgt Ion:152 Resp: 4162

Ion Ratio Lower Upper

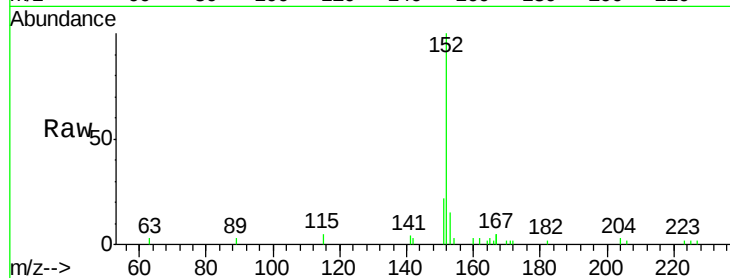
152 100

151 18.6 15.5 23.3

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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.21

2000

1500

1000

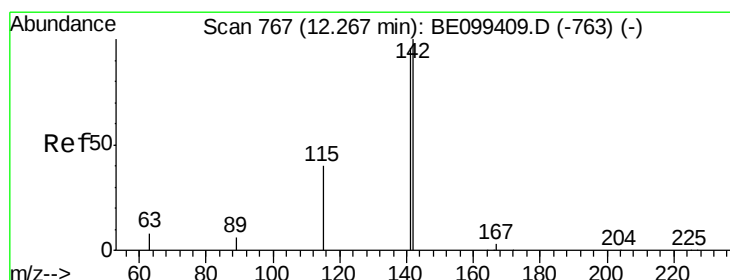
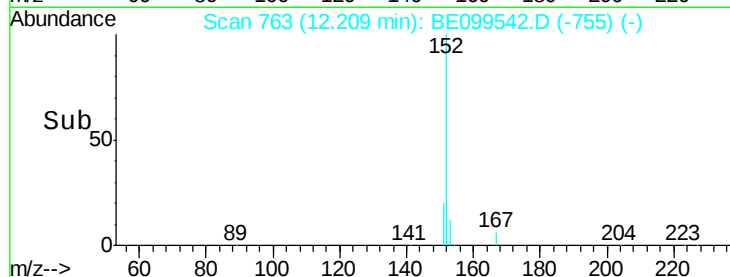
500

0

12.20

12.40

Time-->



#12

2-Methylnaphthalene

Concen: 0.026 ng

RT: 12.28 min Scan# 768

Delta R.T. 0.01 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

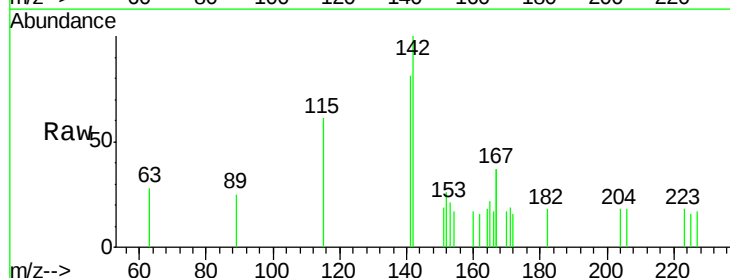
Tgt Ion:142 Resp: 442

Ion Ratio Lower Upper

142 100

141 80.9 77.0 115.4

115 60.9 33.4 50.0#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

12.28

400

300

200

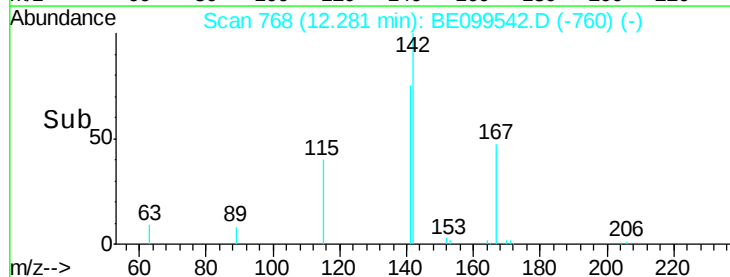
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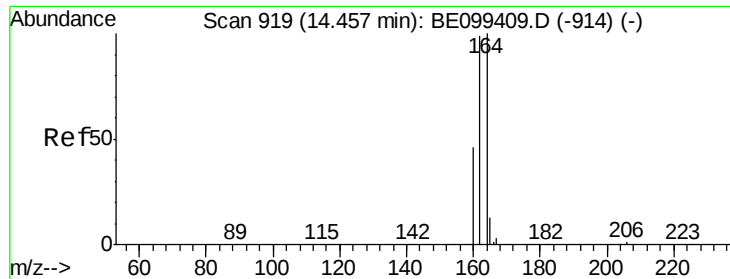
0

12.20

12.30

Time-->





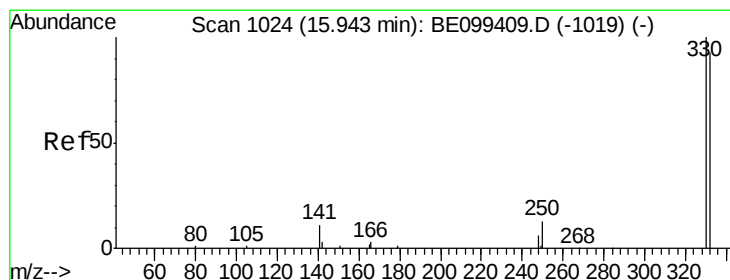
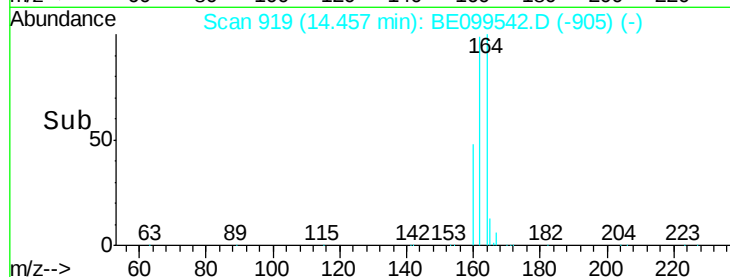
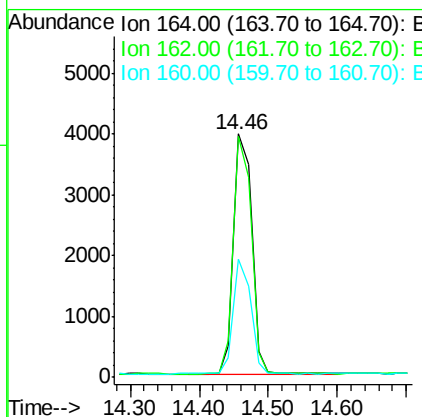
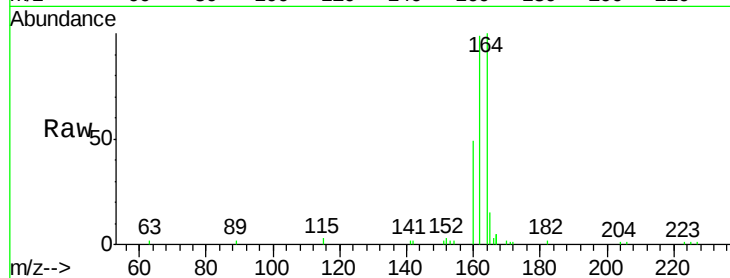
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BE099542.D
 Acq: 3 May 2019 22:32

Instrument :
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 EXT-025-SW028-042219

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.1	79.0	118.4
160	48.5	37.0	55.4

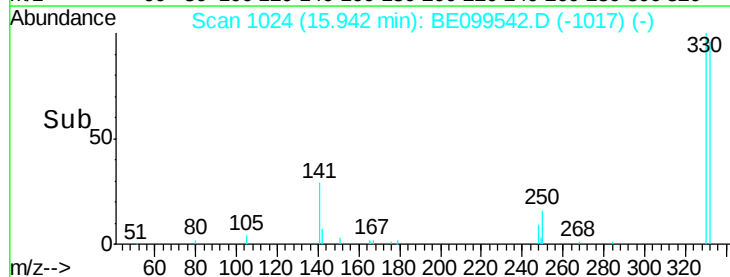
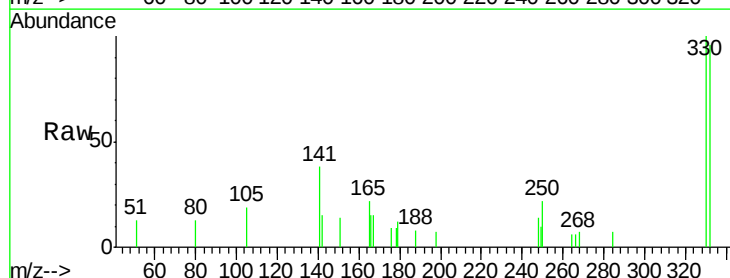
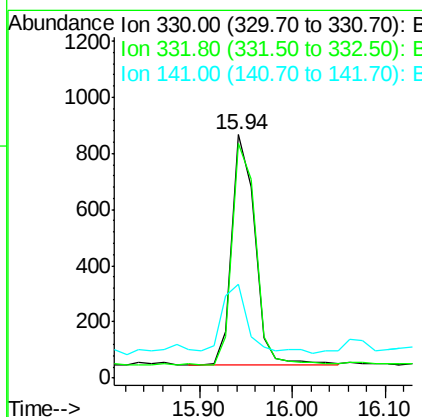
Manual Integrations
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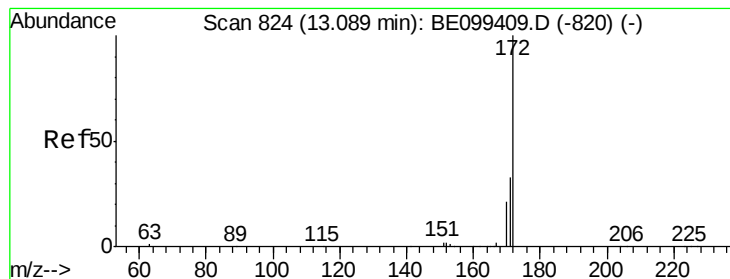
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#14
 2,4,6-Tribromophenol
 Concen: 0.309 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. -0.00 min
 Lab File: BE099542.D
 Acq: 3 May 2019 22:32

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.6	71.5	107.3
141	34.0	24.0	36.0





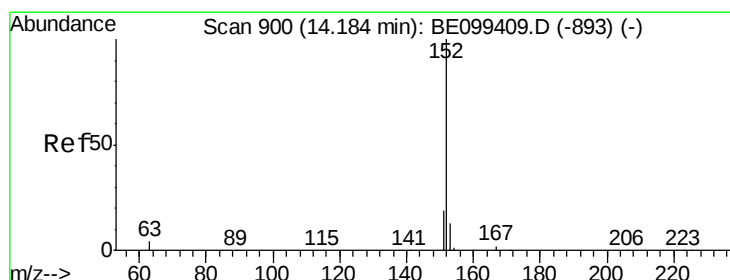
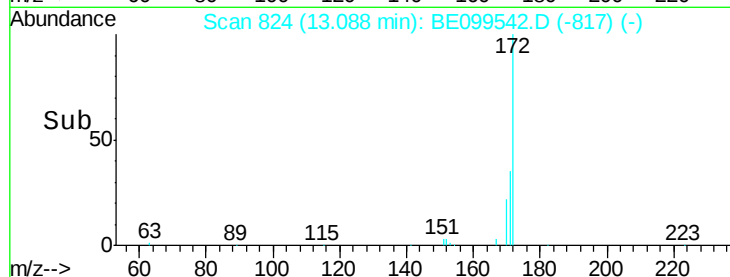
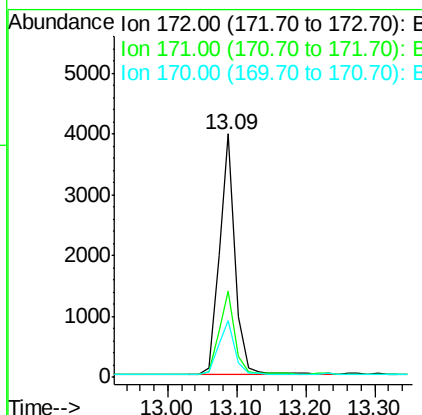
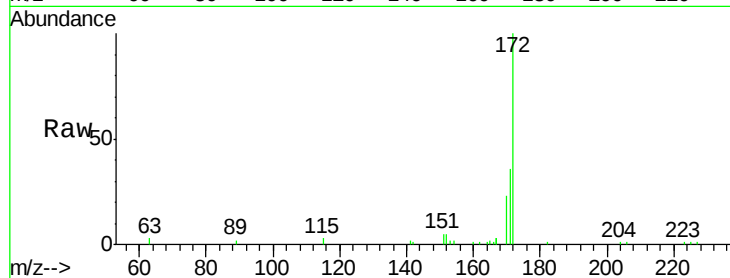
#15
2-Fluorobiphenyl
Concen: 0.228 ng
RT: 13.09 min Scan# 824
Delta R.T. -0.00 min
Lab File: BE099542.D
Acq: 3 May 2019 22:32

Instrument :
BNA_E
ClientSampleId :
EXT-025-SW028-042219

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	26.6	39.8
170	23.2	17.0	25.6

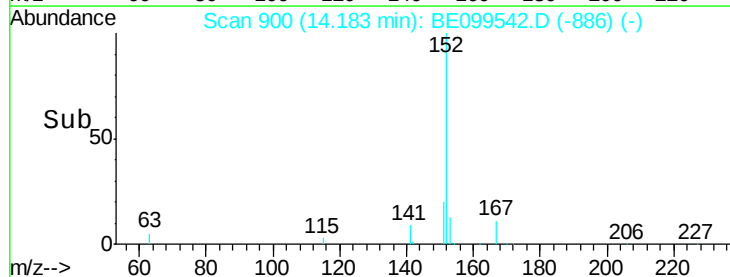
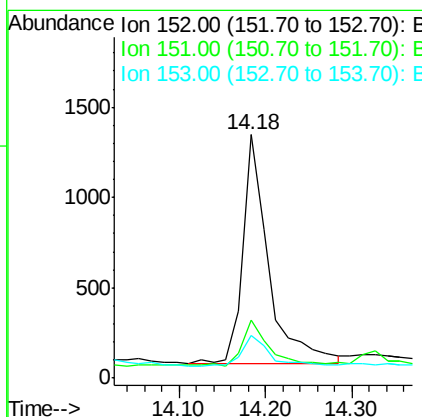
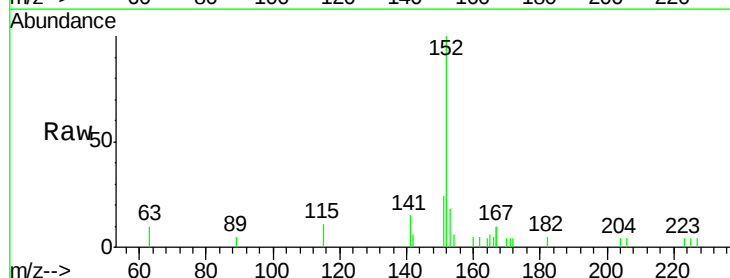
Manual Integrations
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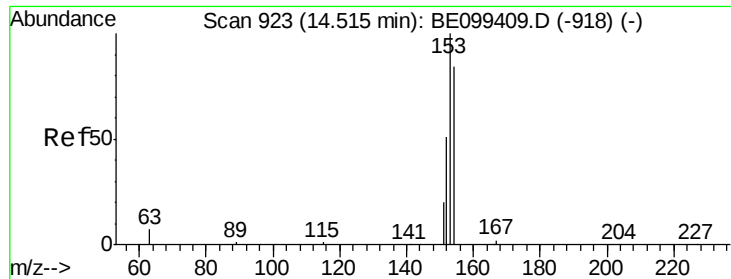
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#16
Acenaphthylene
Concen: 0.073 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099542.D
Acq: 3 May 2019 22:32

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.4	23.2
153	14.1	9.8	14.6





#17

Acenaphthene

Concen: 0.028 ng

RT: 14.53 min Scan# 924

Delta R.T. 0.01 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

Instrument :

BNA_E

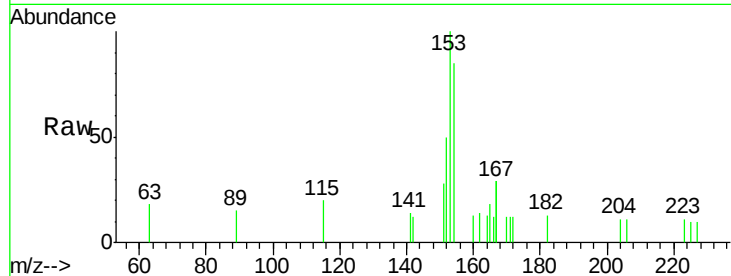
ClientSampleId :

EXT-025-SW028-042219

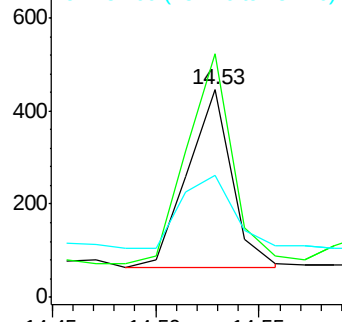
Tgt Ion:	154	Resp:	567
Ion Ratio	Lower	Upper	
154	100		
153	121.5	92.6	138.8
152	49.4	45.8	68.8

Manual Integrations
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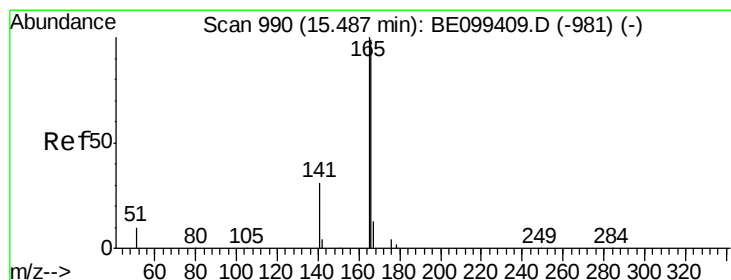
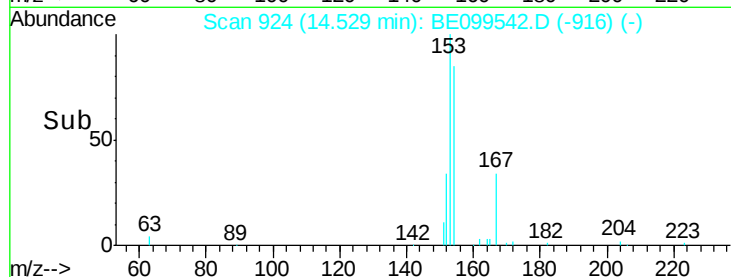
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



Time--> 14.45 14.50 14.55



#18

Fluorene

Concen: 0.057 ng

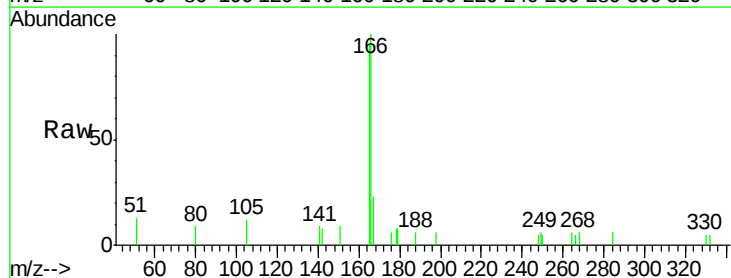
RT: 15.50 min Scan# 991

Delta R.T. 0.01 min

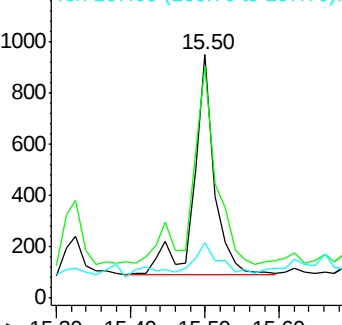
Lab File: BE099542.D

Acq: 3 May 2019 22:32

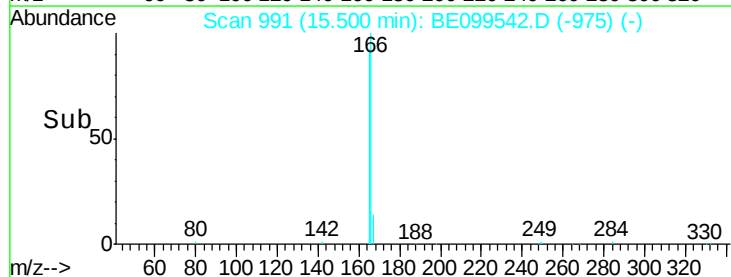
Tgt Ion:	166	Resp:	1695
Ion Ratio	Lower	Upper	
166	100		
165	104.9	80.3	120.5
167	16.4	10.7	16.1#

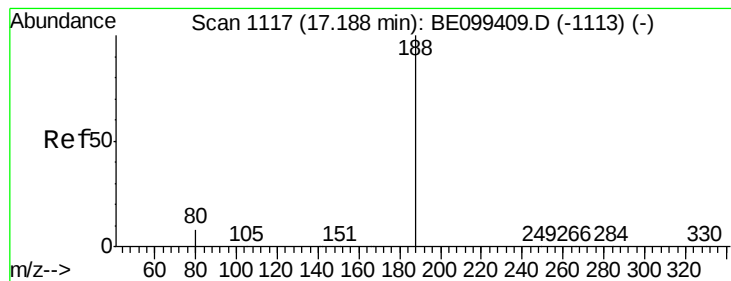


Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



Time--> 15.30 15.40 15.50 15.60





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.01 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

Instrument :

BNA_E

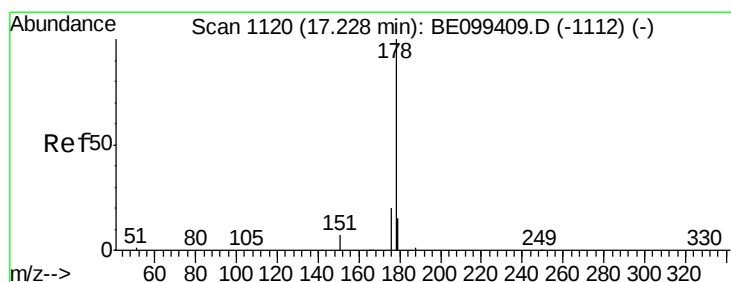
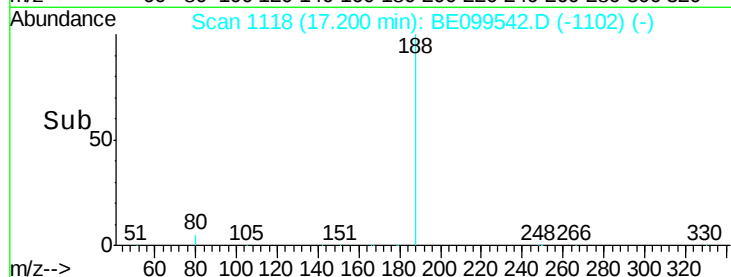
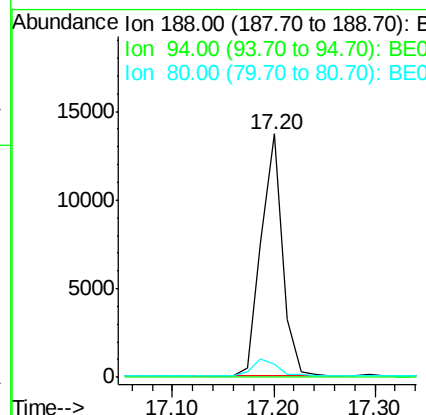
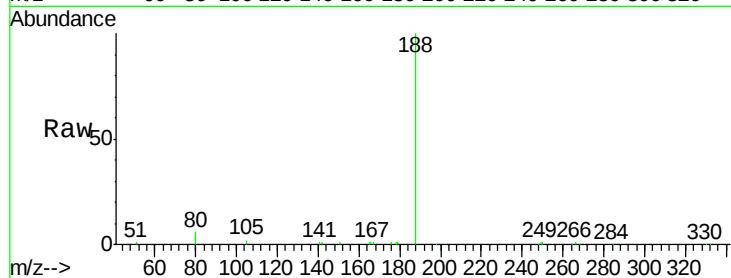
ClientSampleId :

EXT-025-SW028-042219

Tgt Ion:	188	Resp:	20291
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	5.5	6.7	10.1#

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#23

Phenanthrene

Concen: 1.043 ng

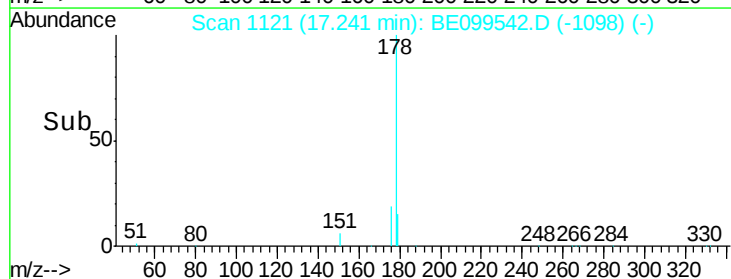
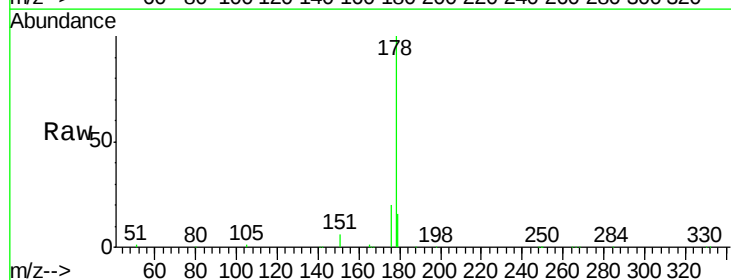
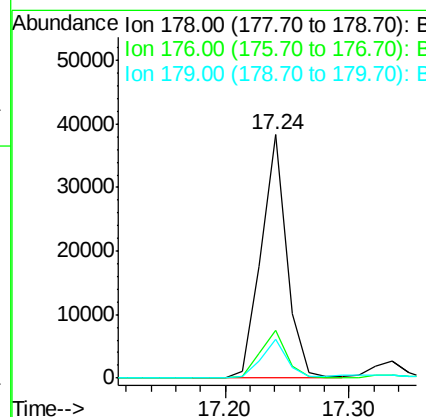
RT: 17.24 min Scan# 1121

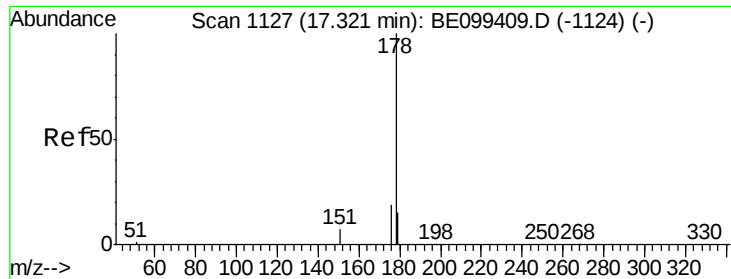
Delta R.T. 0.01 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

Tgt Ion:	178	Resp:	54626
Ion Ratio	Lower	Upper	
178	100		
176	19.8	15.6	23.4
179	15.4	12.0	18.0





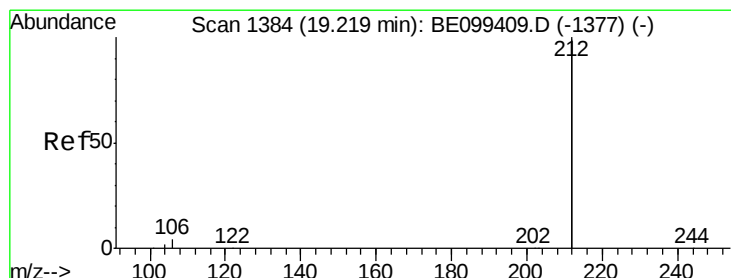
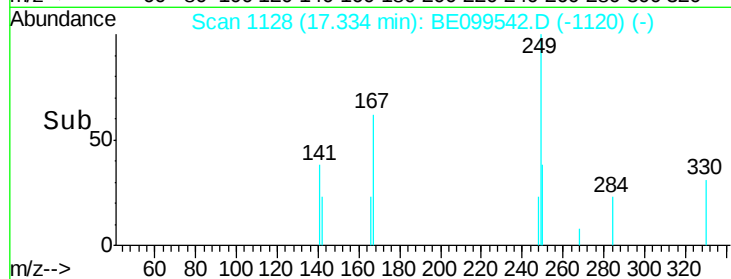
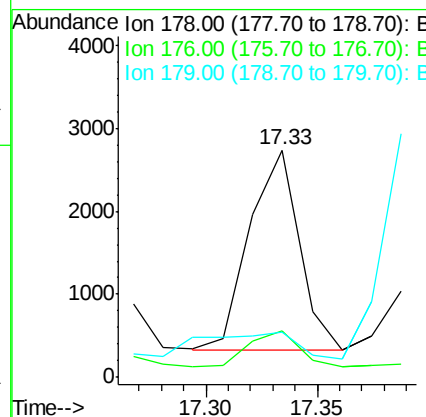
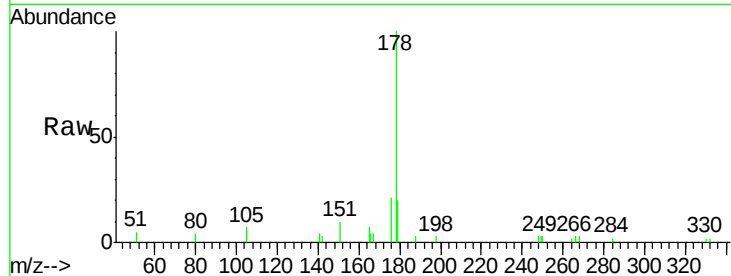
#24
 Anthracene
 Concen: 0.074 ng
 RT: 17.33 min Scan# 1128
 Delta R.T. 0.01 min
 Lab File: BE099542.D
 Acq: 3 May 2019 22:32

Instrument :
 BNA_E
 ClientSampleId :
 EXT-025-SW028-042219

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	14.9	22.3
179	25.8	11.9	17.9

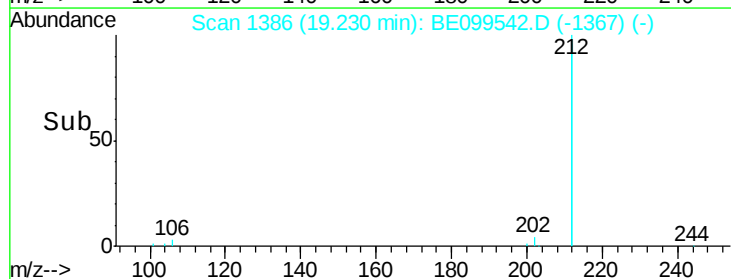
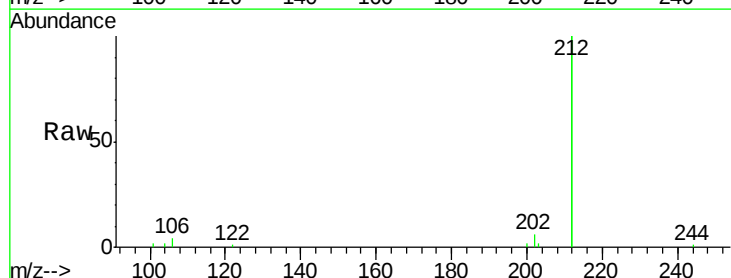
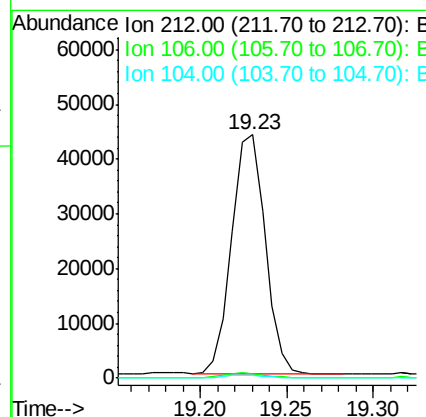
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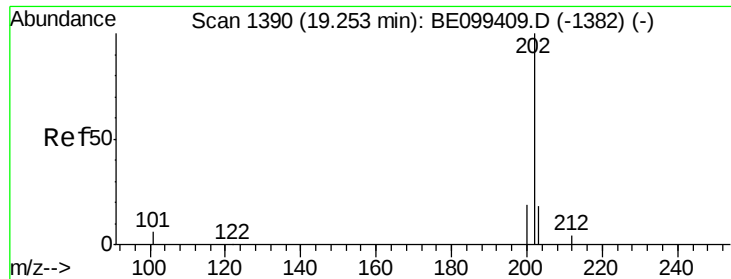
mohammad
 5/7/2019 11:57:20 PM



#25
 Fluoranthene-d10
 Concen: 0.217 ng
 RT: 19.23 min Scan# 1386
 Delta R.T. 0.01 min
 Lab File: BE099542.D
 Acq: 3 May 2019 22:32

Tgt Ion	Ratio	Lower	Upper
212	100		
106	1.8	1.5	2.3
104	1.1	0.9	1.3





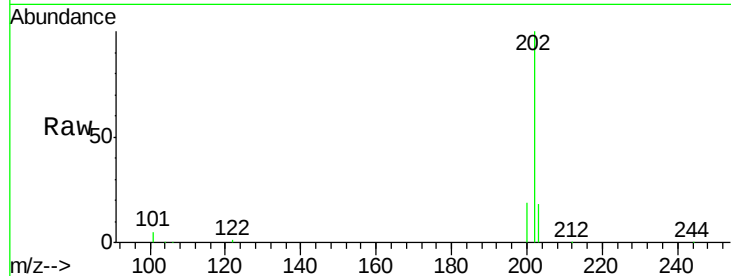
#26
Fluoranthene
Concen: 3.012 ng
RT: 19.26 min Scan# 1391
Delta R.T. 0.01 min
Lab File: BE099542.D
Acq: 3 May 2019 22:32

Instrument :
BNA_E
ClientSampleId :
EXT-025-SW028-042219

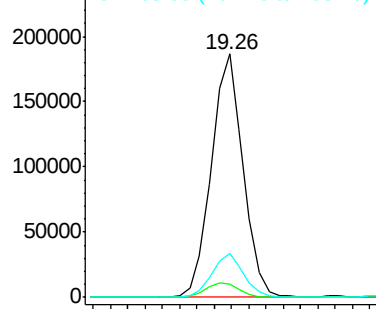
Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	6.1	5.4	8.0
203	17.5	13.9	20.9

Manual Integrations
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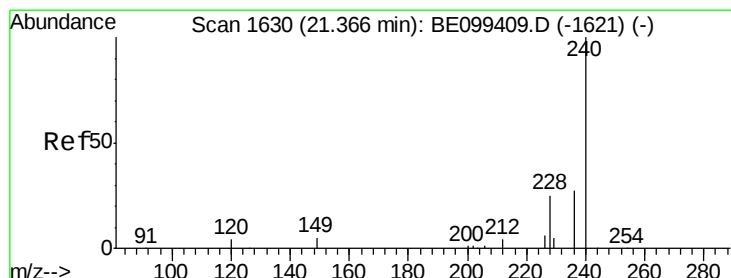
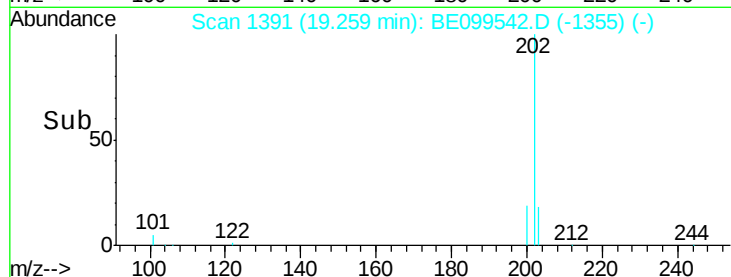
mohammad
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



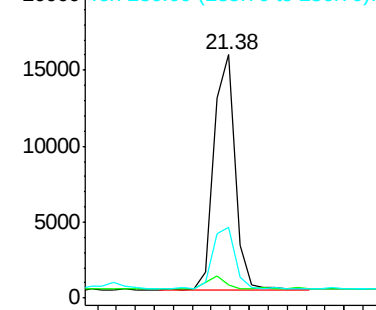
Time-->



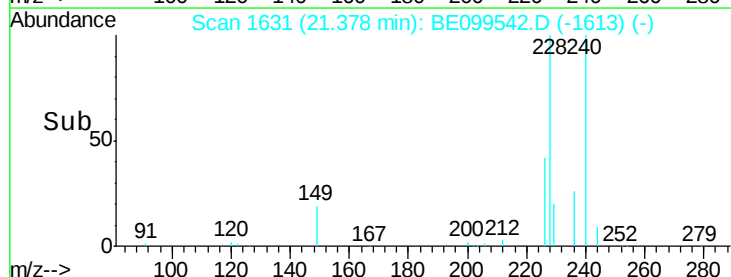
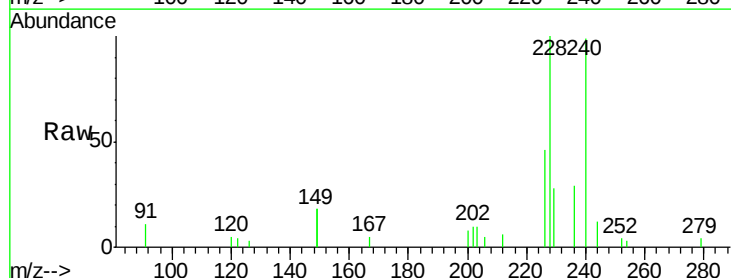
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.38 min Scan# 1631
Delta R.T. 0.01 min
Lab File: BE099542.D
Acq: 3 May 2019 22:32

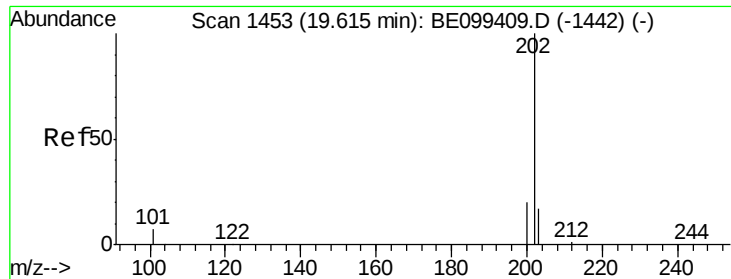
Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	5.4	4.0	6.0
236	29.2	22.0	33.0

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



Time-->





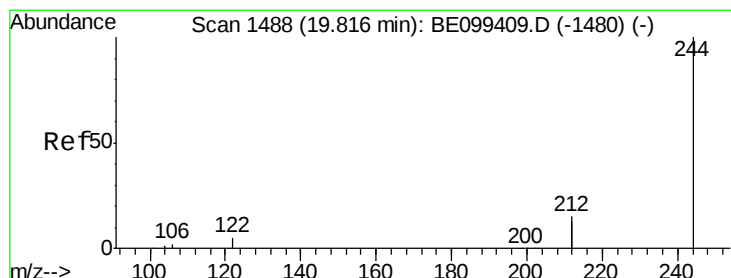
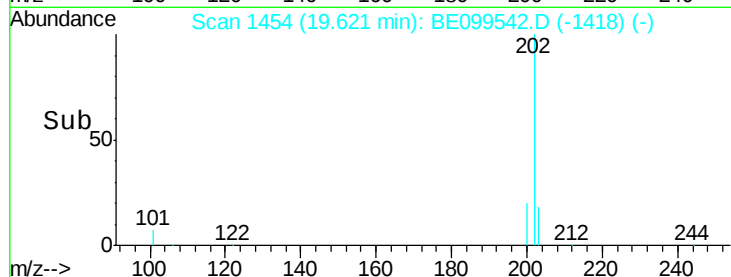
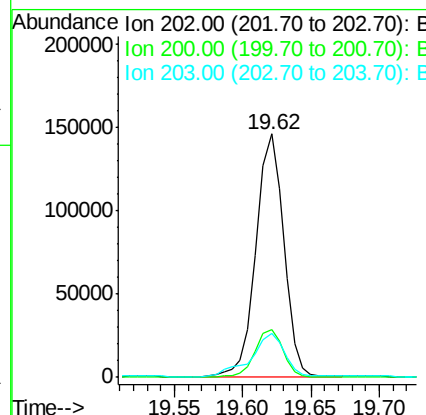
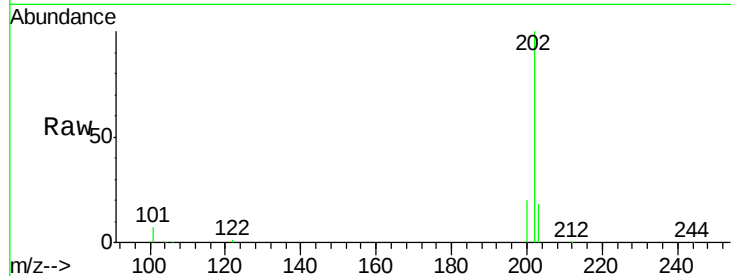
#28
 Pyrene
 Concen: 3.271 ng
 RT: 19.62 min Scan# 1454
 Delta R.T. 0.01 min
 Lab File: BE099542.D
 Acq: 3 May 2019 22:32

Instrument :
 BNA_E
 ClientSampleId :
 EXT-025-SW028-042219

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.1	15.7	23.5
203	21.5	13.9	20.9

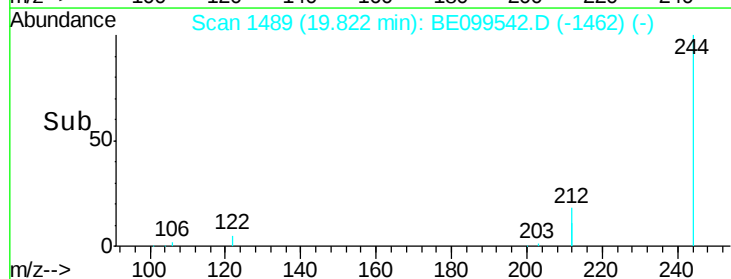
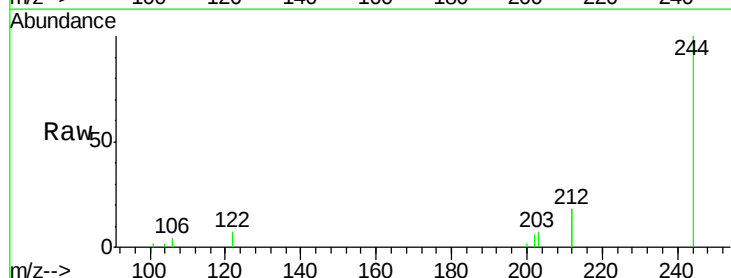
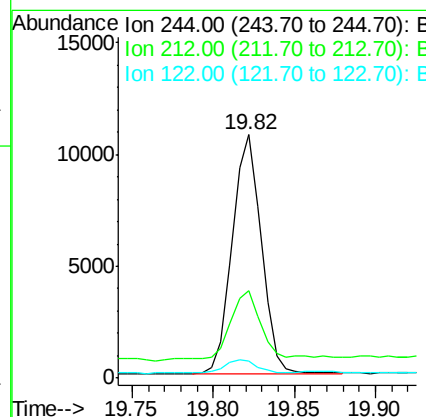
Manual Integrations
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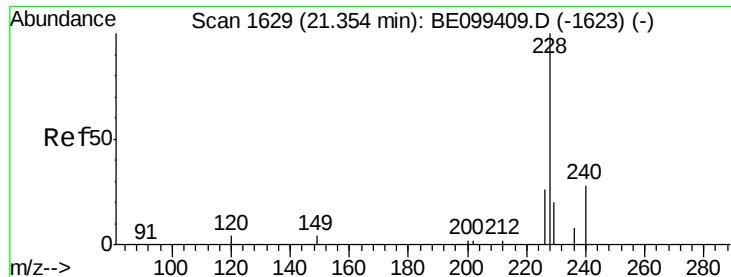
mohammad
 5/7/2019 11:57:20 PM



#29
 Terphenyl-d14
 Concen: 0.305 ng
 RT: 19.82 min Scan# 1489
 Delta R.T. 0.01 min
 Lab File: BE099542.D
 Acq: 3 May 2019 22:32

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	36.1	23.2	34.8
122	7.0	4.2	6.4





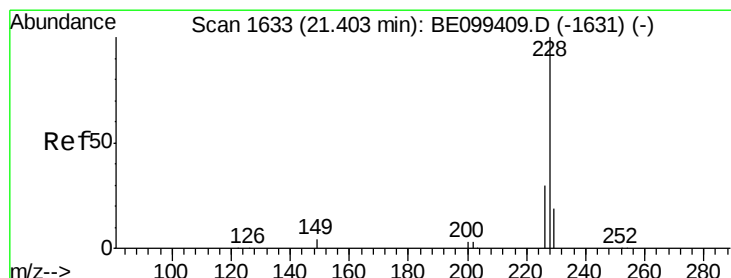
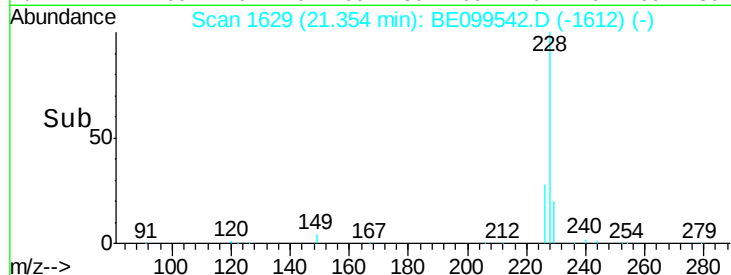
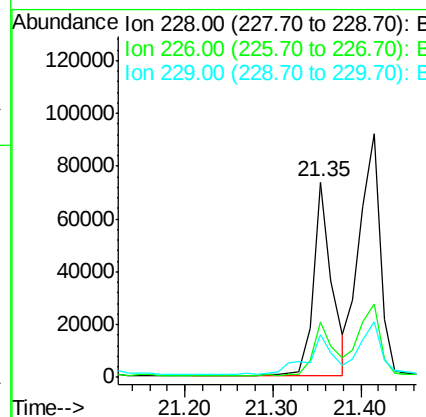
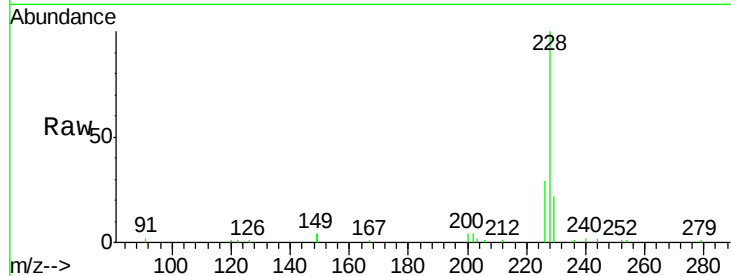
#30
Benzo(a)anthracene
Concen: 1.399 ng
RT: 21.35 min Scan# 1629
Delta R.T. -0.00 min
Lab File: BE099542.D
Acq: 3 May 2019 22:32

Instrument :
BNA_E
ClientSampleId :
EXT-025-SW028-042219

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	21.0	31.6
229	21.6	16.6	25.0

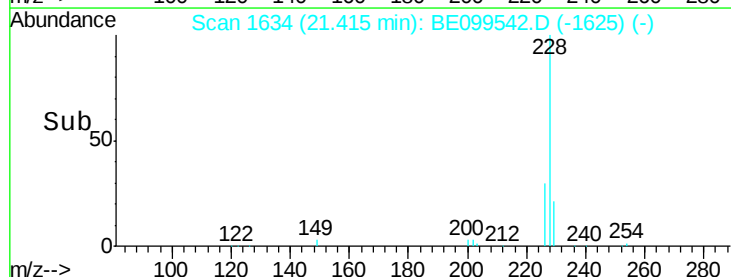
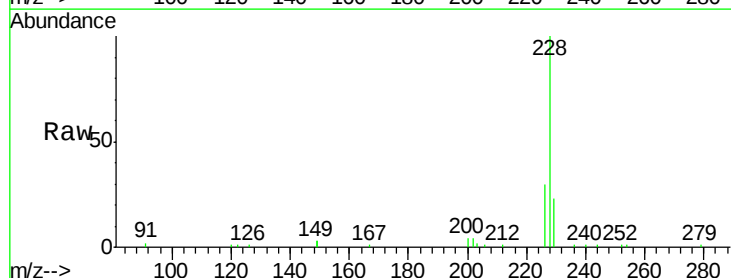
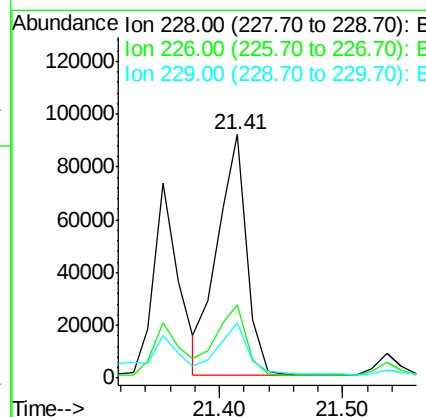
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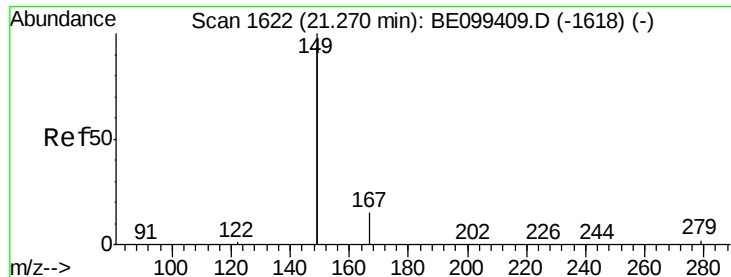
mohammad
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#31
Chrysene
Concen: 2.014 ng
RT: 21.41 min Scan# 1634
Delta R.T. 0.01 min
Lab File: BE099542.D
Acq: 3 May 2019 22:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	22.8	15.8	23.8





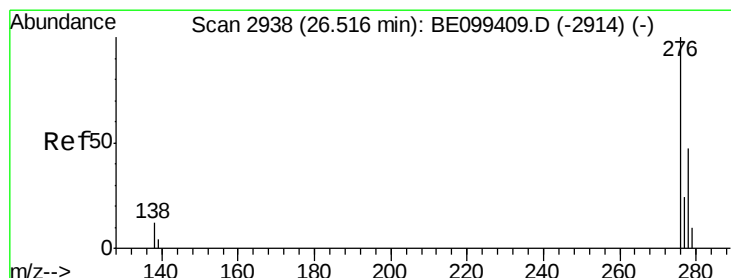
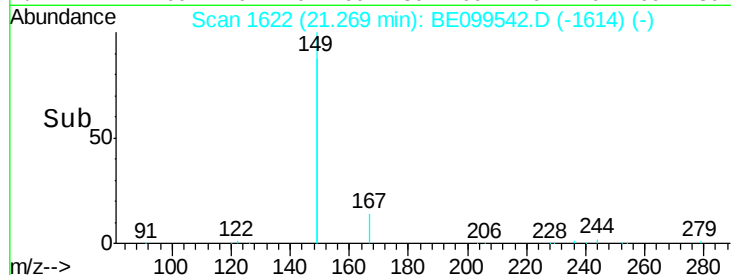
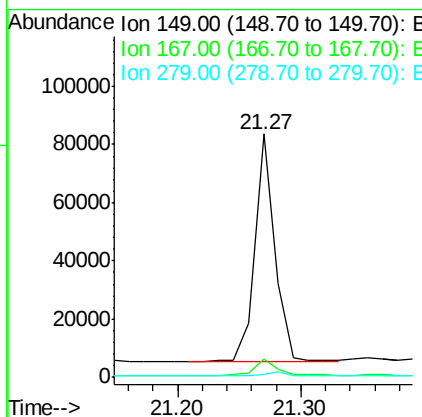
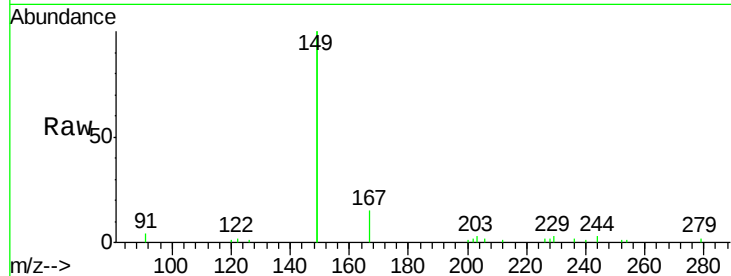
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.748 ng
 RT: 21.27 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: BE099542.D
 Acq: 3 May 2019 22:32

Instrument :
 BNA_E
 ClientSampleId :
 EXT-025-SW028-042219

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
167	7.5	5.8	8.6
279	1.8	1.0	1.6#

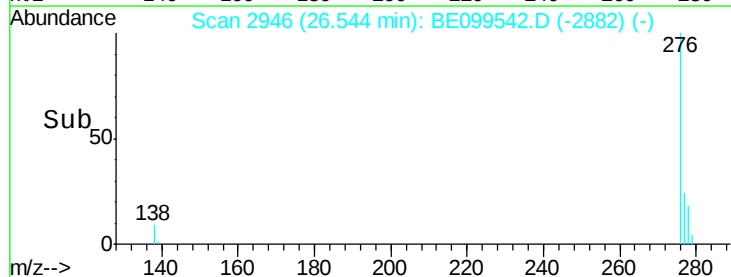
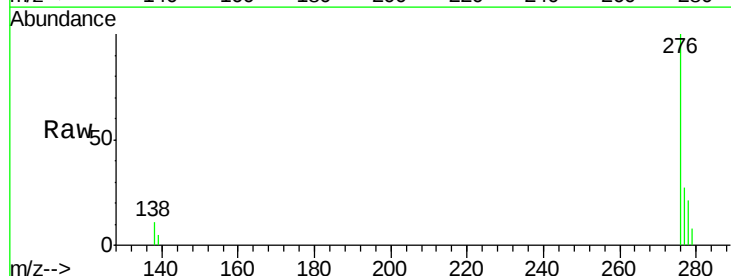
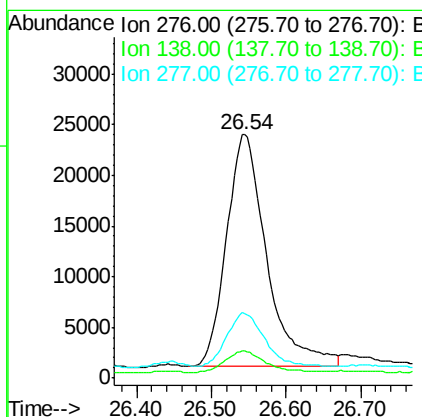
Manual Integrations
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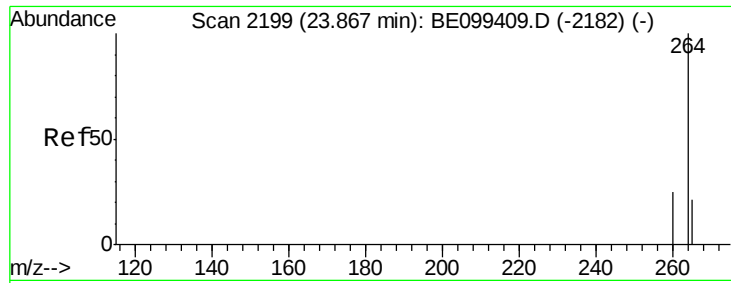
mohammad
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#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.975 ng
 RT: 26.54 min Scan# 2946
 Delta R.T. 0.03 min
 Lab File: BE099542.D
 Acq: 3 May 2019 22:32

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	9.2	10.2	15.2#
277	21.9	19.2	28.8





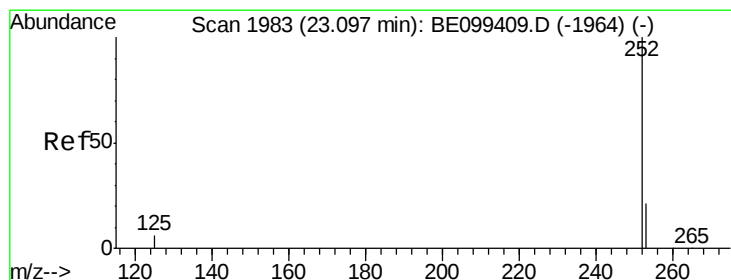
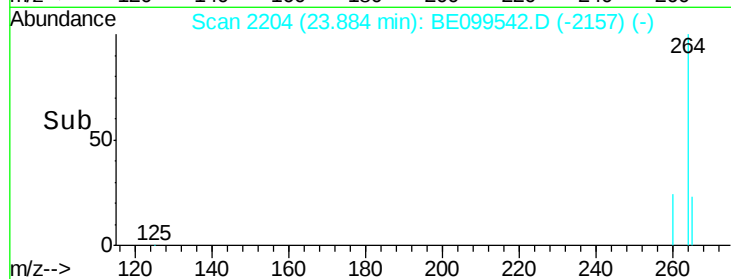
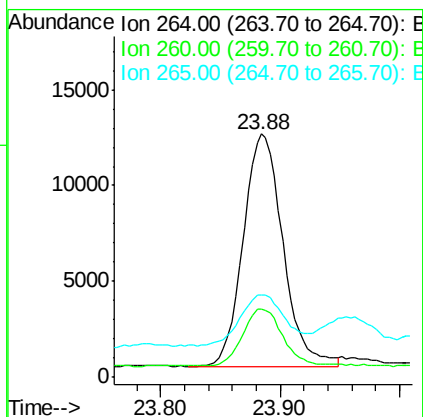
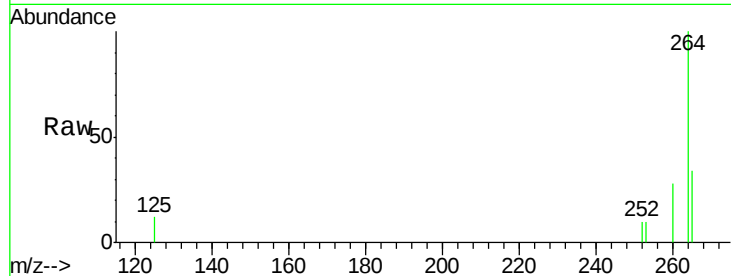
#34
Perylene-d12
 Concen: 0.400 ng
 RT: 23.88 min Scan# 2204
 Delta R.T. 0.02 min
 Lab File: BE099542.D
 Acq: 3 May 2019 22:32

Instrument :
 BNA_E
 ClientSampleId :
 EXT-025-SW028-042219

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	28102		
260	27.8	20.2	30.2	
265	33.9	21.3	31.9	

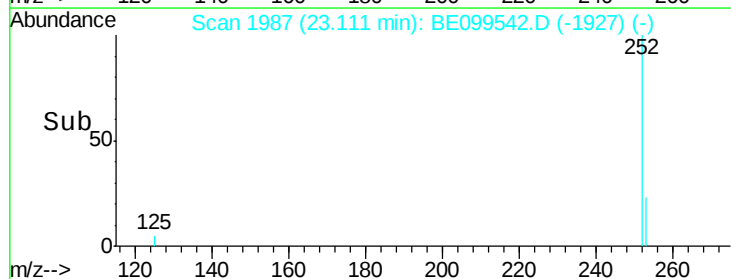
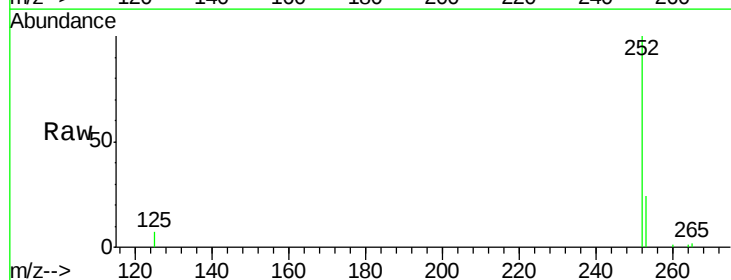
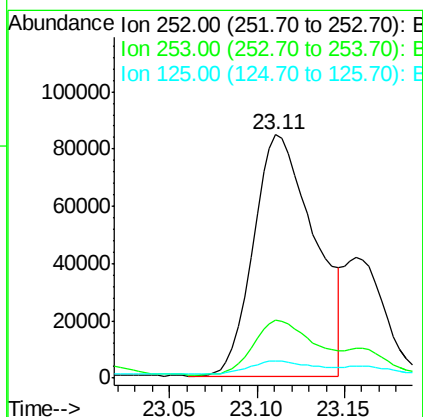
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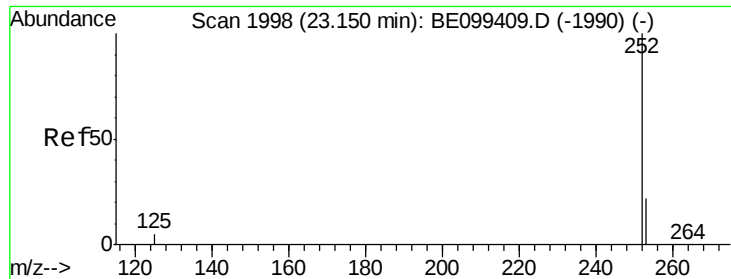
mohammad
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#35
Benzo(b)fluoranthene
 Concen: 2.525 ng
 RT: 23.11 min Scan# 1987
 Delta R.T. 0.01 min
 Lab File: BE099542.D
 Acq: 3 May 2019 22:32

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	204624		
253	23.8	18.1	27.1	
125	7.1	5.6	8.4	





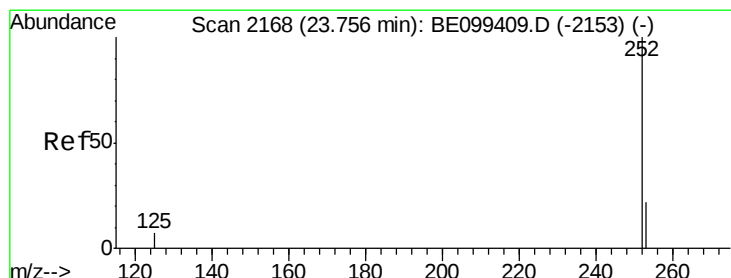
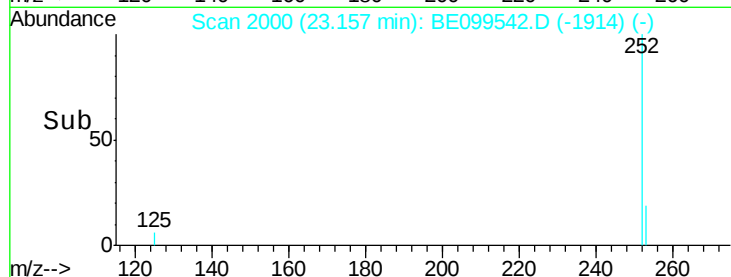
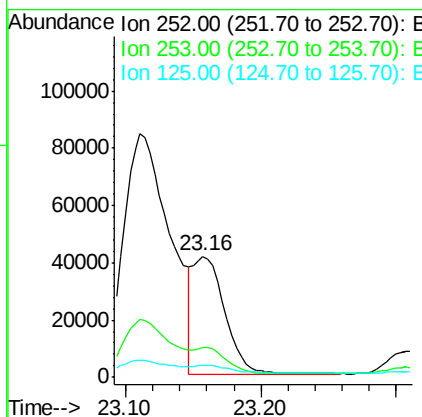
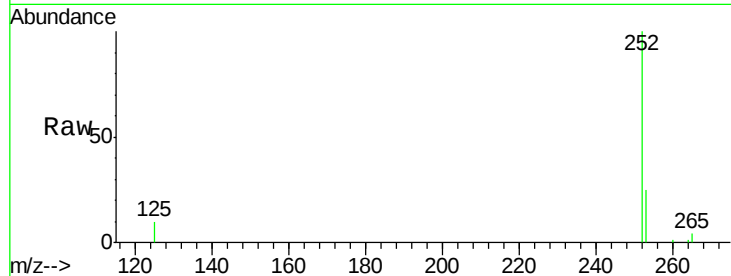
#36
Benzo(k)fluoranthene
Concen: 0.869 ng m
RT: 23.16 min Scan# 2000
Delta R.T. 0.01 min
Lab File: BE099542.D
Acq: 3 May 2019 22:32

Instrument :
BNA_E
ClientSampleId :
EXT-025-SW028-042219

Tgt Ion:252 Resp: 67938
Ion Ratio Lower Upper
252 100
253 24.8 18.4 27.6
125 9.8 5.0 7.4#

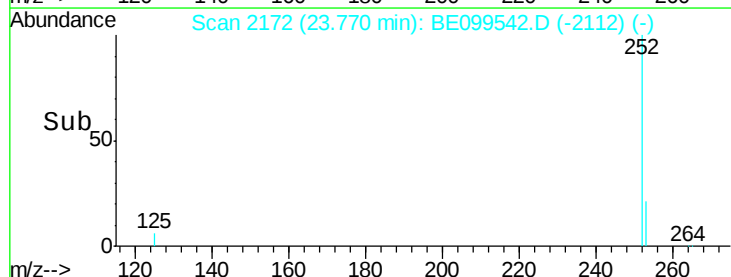
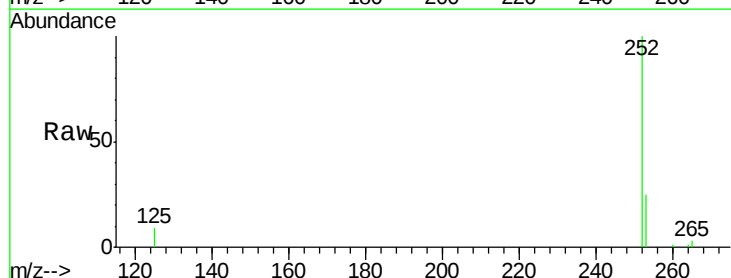
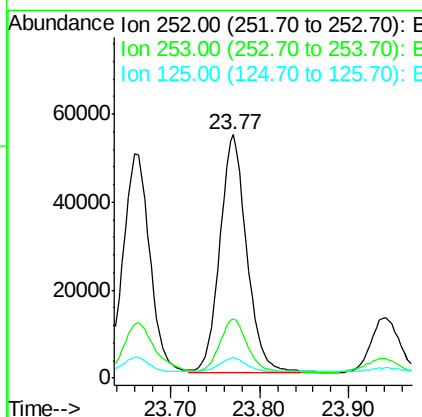
Manual Integrations
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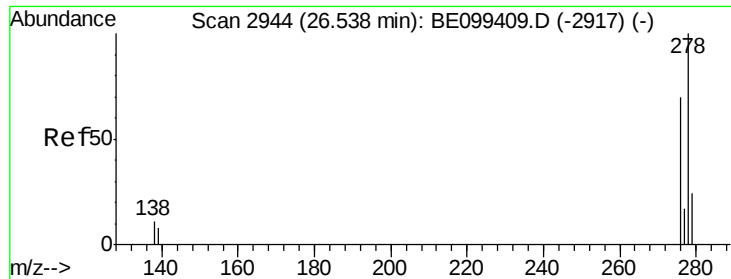
mohammad
5/7/2019 11:57:20 PM



#37
Benzo(a)pyrene
Concen: 1.504 ng
RT: 23.77 min Scan# 2172
Delta R.T. 0.01 min
Lab File: BE099542.D
Acq: 3 May 2019 22:32

Tgt Ion:252 Resp: 115209
Ion Ratio Lower Upper
252 100
253 24.5 18.9 28.3
125 8.5 6.7 10.1





#38

Dibenzo(a,h)anthracene

Concen: 0.228 ng

RT: 26.56 min Scan# 2950

Delta R.T. 0.02 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

Instrument :

BNA_E

ClientSampleId :

EXT-025-SW028-042219

Tgt Ion: 278 Resp: 17898

Ion Ratio Lower Upper

278 100

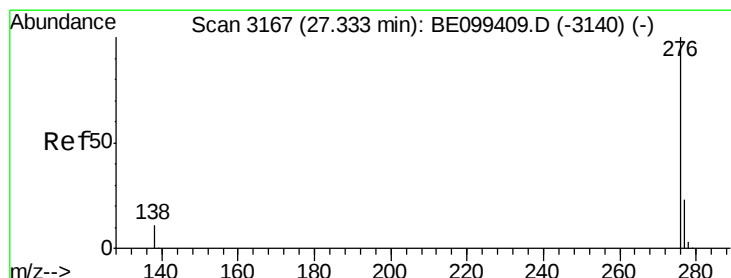
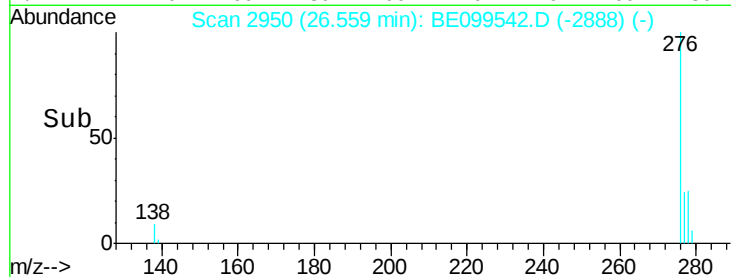
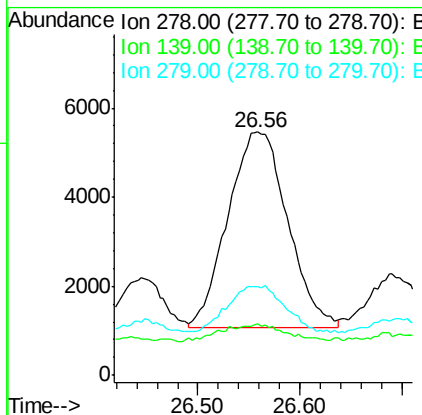
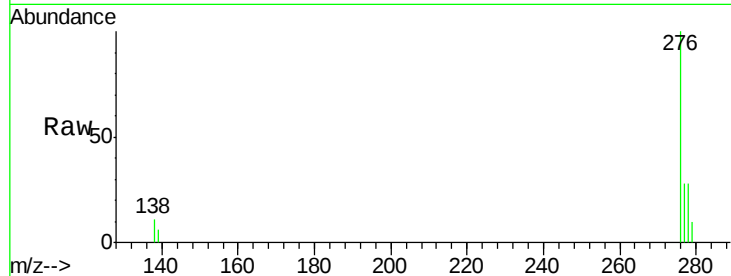
139 21.1 7.7 11.5#

279 36.4 20.2 30.2#

Manual Integrations
APPROVED

mohammad

5/7/2019 11:57:20 PM



#39

Benzo(g,h,i)perylene

Concen: 1.052 ng

RT: 27.37 min Scan# 3177

Delta R.T. 0.04 min

Lab File: BE099542.D

Acq: 3 May 2019 22:32

Tgt Ion: 276 Resp: 82557

Ion Ratio Lower Upper

276 100

277 27.0 19.5 29.3

138 11.7 9.6 14.4

