

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070519\
 Data File : BE100397.D
 Acq On : 6 Jul 2019 1:14
 Operator : JU/SJ
 Sample : K3558-06DL 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-015-SW082-062519DL

Manual Integrations
 APPROVED

mohammad
 7/8/2019 2:14:20 PM

Quant Time: Jul 06 03:55:19 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 28 14:06:53 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	576	0.40	ng	-0.01
7) Naphthalene-d8	10.42	136	2150	0.40	ng	-0.03
13) Acenaphthene-d10	14.30	164	1668	0.40	ng	-0.01
19) Phenanthrene-d10	17.04	188	5086	0.40	ng	-0.01
27) Chrysene-d12	21.23	240	6627	0.40	ng	-0.01
34) Perylene-d12	23.65	264	8196	0.40	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.20	112	53	0.04	ng	-0.01
5) Phenol-d6	6.85	99	20	0.01	ng	0.00
8) Nitrobenzene-d5	8.85	82	57	0.03	ng	0.03
11) 2-Methylnaphthalene-d10	12.04	152	129	0.03	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	35	0.03	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	231	0.04	ng	-0.01
25) Fluoranthene-d10	19.08	212	1649	0.02	ng	-0.02
29) Terphenyl-d14	19.68	244	377	0.03	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.47	128	1949	0.082	ng	# 89
12) 2-Methylnaphthalene	12.12	142	265	0.064	ng	# 87
16) Acenaphthylene	14.02	152	1836	0.229	ng	99
17) Acenaphthene	14.37	154	315	0.069	ng	96
18) Fluorene	15.35	166	738	0.110	ng	# 90
23) Phenanthrene	17.08	178	21778	1.767	ng	100
24) Anthracene	17.17	178	3045	0.274	ng	# 93
26) Fluoranthene	19.11	202	47274	2.408	ng	98
28) Pyrene	19.48	202	64469	3.674	ng	97
30) Benzo(a)anthracene	21.22	228	34071m	1.564	ng	
31) Chrysene	21.27	228	41641	1.903	ng	97
32) Bis(2-ethylhexyl)phthalate	21.14	149	3334	0.051	ng	# 97
33) Indeno(1,2,3-cd)pyrene	26.20	276	22229	0.768	ng	# 95
35) Benzo(b)fluoranthene	22.91	252	39226	1.765	ng	# 96
36) Benzo(k)fluoranthene	22.95	252	14197m	0.572	ng	
37) Benzo(a)pyrene	23.54	252	32194m	1.446	ng	
38) Dibenzo(a,h)anthracene	26.22	278	5717	0.246	ng	# 81
39) Benzo(a,h,i)perylene	26.99	276	26520	1.110	ng	98

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

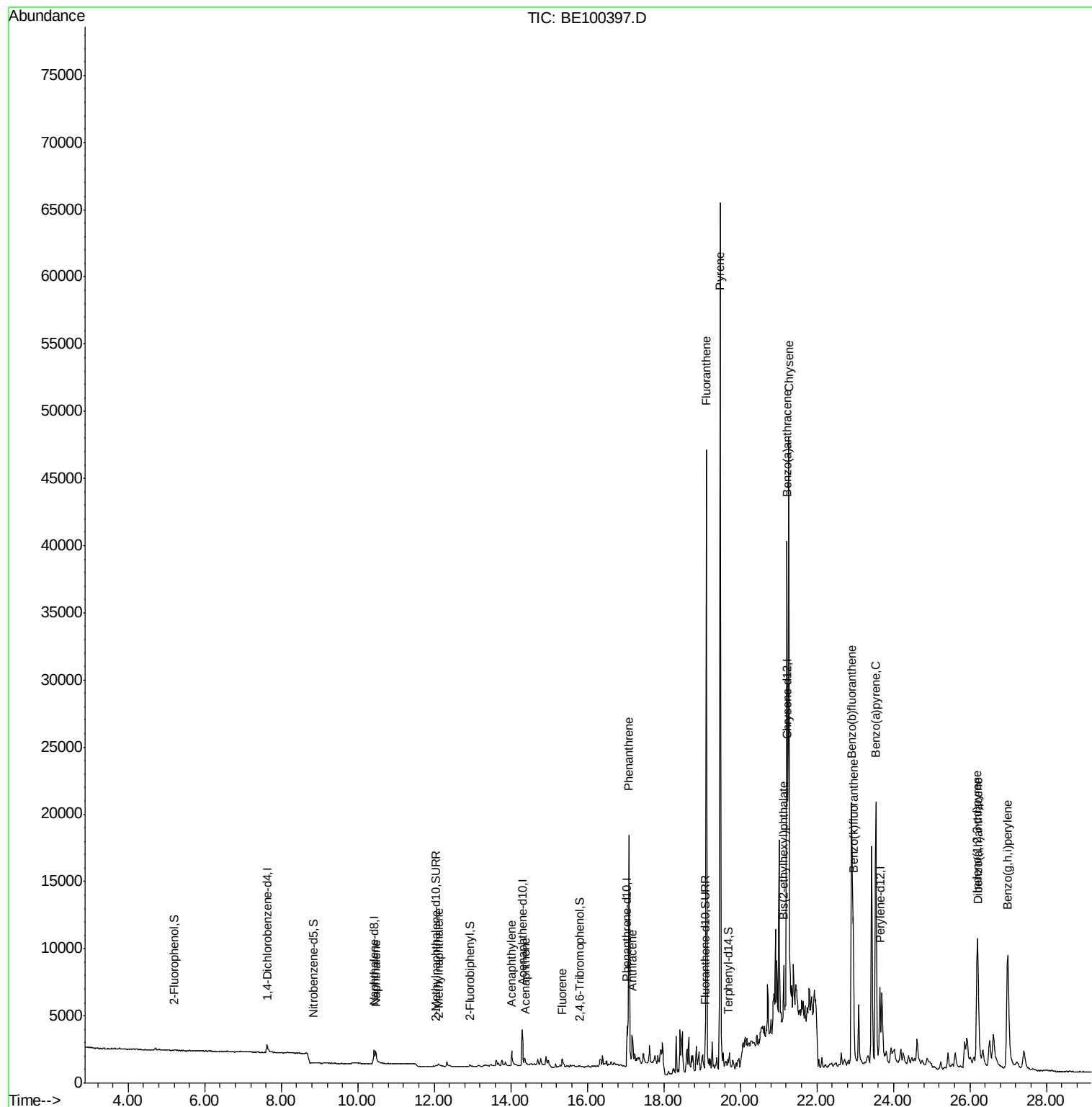
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070519\
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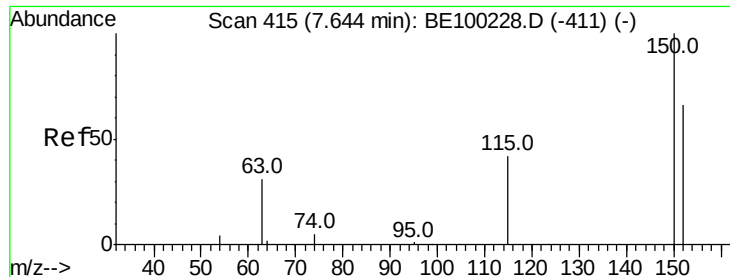
Instrument :
BNA_E
ClientSampleId :
EXT-015-SW082-062519DL

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QLast Update : Fri Jun 28 14:06:53 2019
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.63 min Scan# 414

Delta R.T. -0.01 min

Lab File: BE100397.D

Acq: 6 Jul 2019 1:14

Instrument :

BNA_E

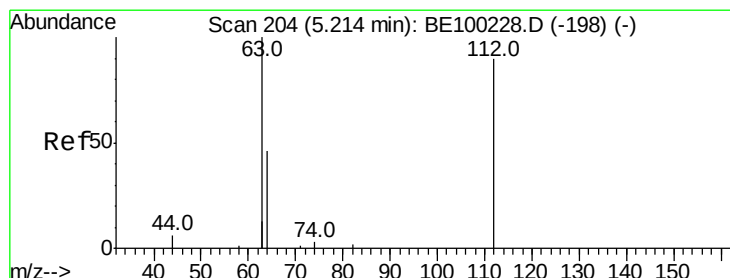
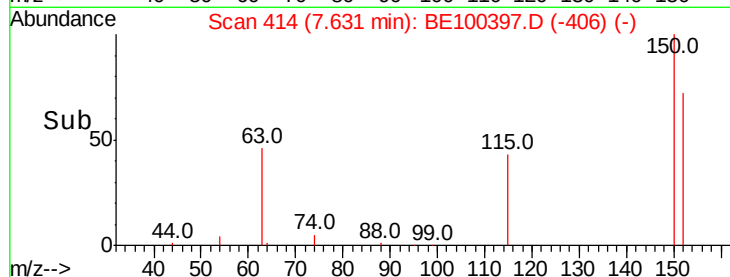
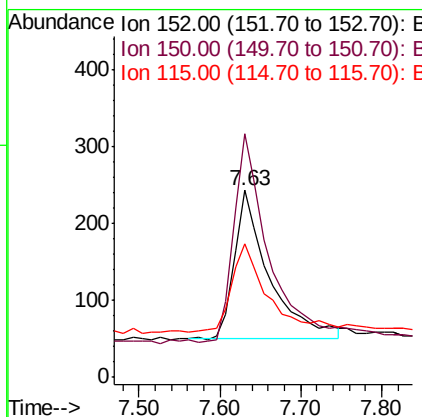
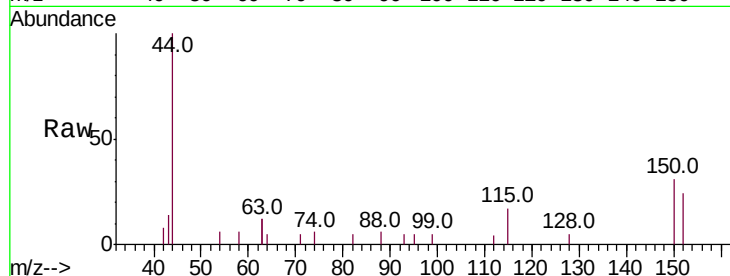
ClientSampleId :

EXT-015-SW082-062519DL

Tot Ion:	152	Resp:	576
Ion	Ratio	Lower	Upper
152	100		
150	130.5	114.5	171.7
115	71.6	57.1	85.7

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#4

2-Fluorophenol

Concen: 0.036 ng

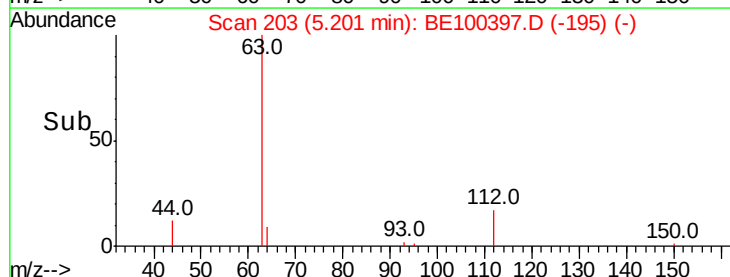
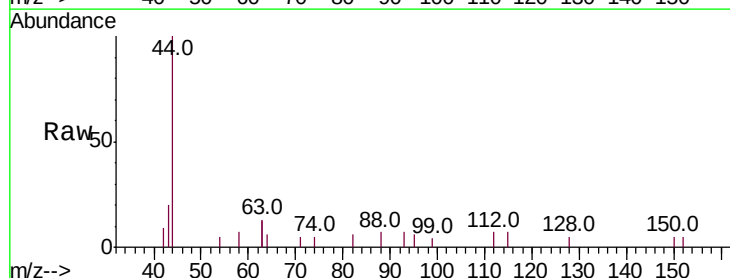
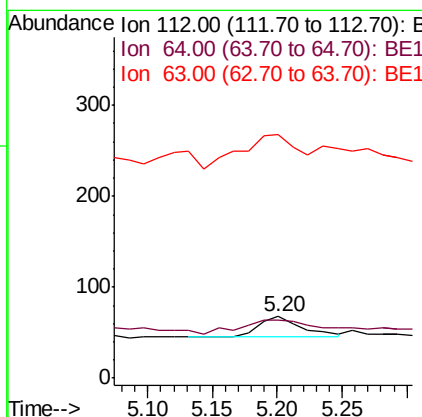
RT: 5.20 min Scan# 203

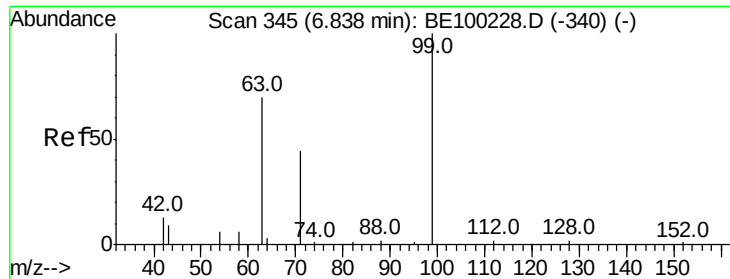
Delta R.T. -0.01 min

Lab File: BE100397.D

Acq: 6 Jul 2019 1:14

Tgt Ion:	112	Resp:	53
Ion	Ratio	Lower	Upper
112	100		
64	160.4	39.4	59.0#
63	217.0	104.5	156.7#





#5

Phenol-d6

Concen: 0.010 ng

RT: 6.85 min Scan# 346

Delta R.T. 0.01 min

Lab File: BE100397.D

Acq: 6 Jul 2019 1:14

Instrument :

BNA_E

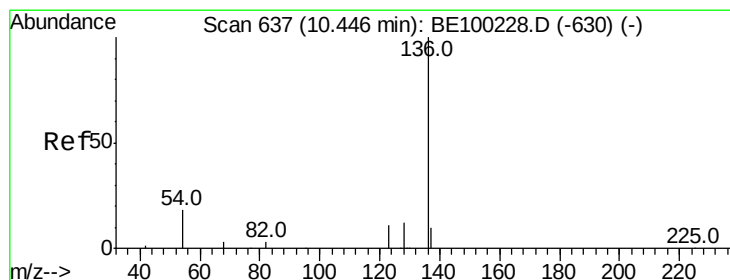
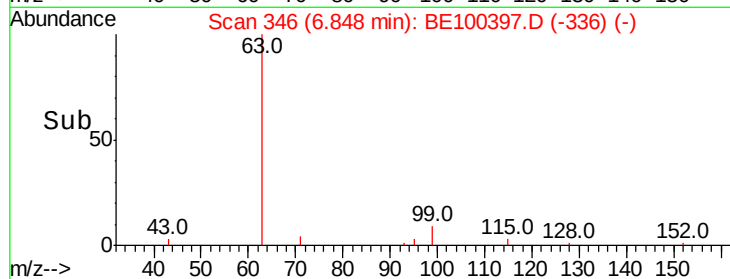
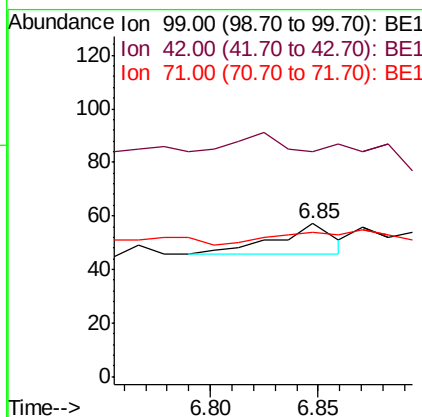
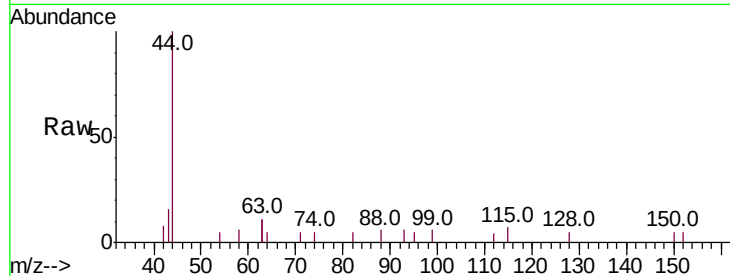
ClientSampleId :

EXT-015-SW082-062519DL

Tot Ion	Ratio	Lower	Upper
99	100		
42	0.0	11.2	16.8#
71	0.0	37.2	55.8#

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#7

Naphthalene-d8

Concen: 0.400 ng

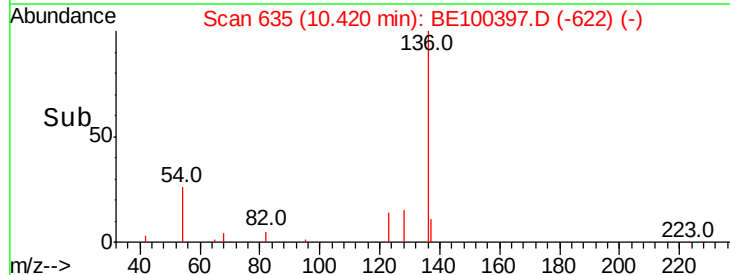
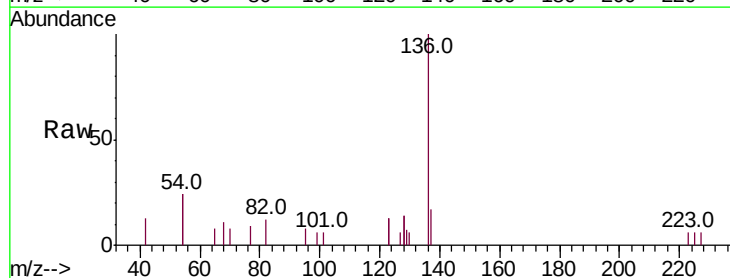
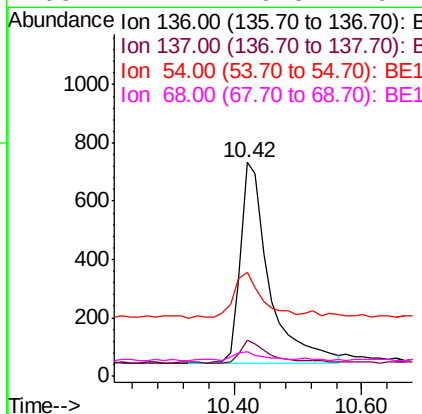
RT: 10.42 min Scan# 635

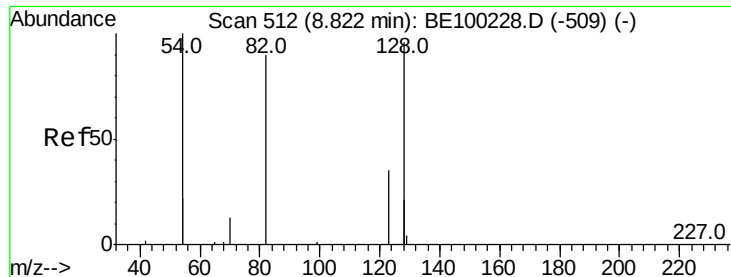
Delta R.T. -0.03 min

Lab File: BE100397.D

Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Lower	Upper
136	100		
137	16.9	11.8	17.8
54	48.6	27.7	41.5#
68	11.2	6.8	10.2#





#8

Nitrobenzene-d5

Concen: 0.027 ng

RT: 8.85 min Scan# 514

Delta R.T. 0.03 min

Lab File: BE100397.D

Acq: 6 Jul 2019 1:14

Instrument :

BNA_E

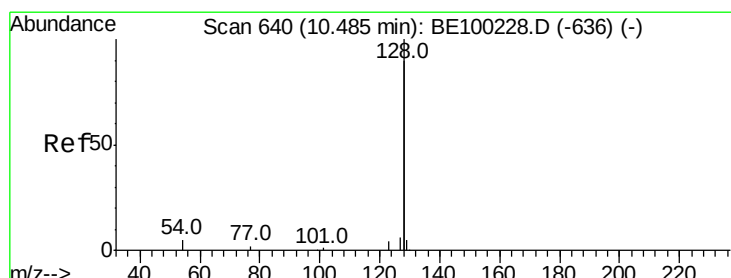
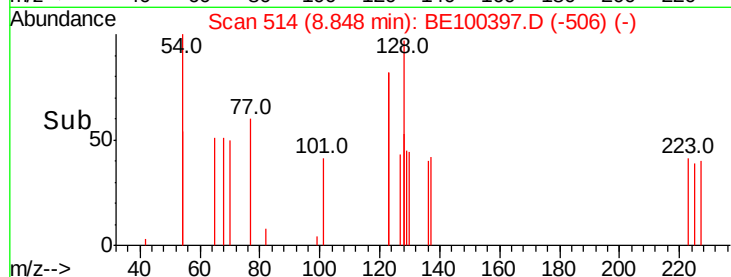
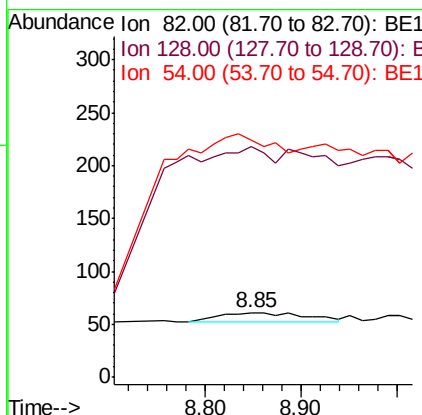
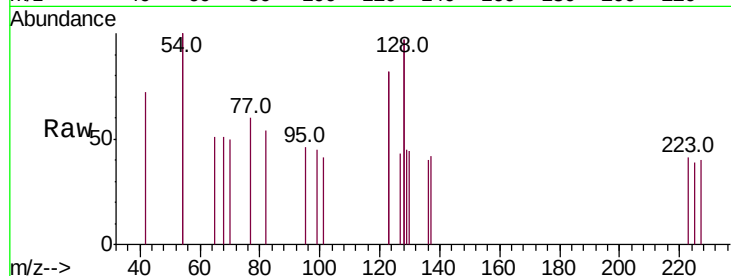
ClientSampleId :

EXT-015-SW082-062519DL

Tot Ion:	82	Resp:	57
Ion	Ratio	Lower	Upper
82	100		
128	357.4	140.9	211.3#
54	367.2	146.2	219.2#

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#9

Naphthalene

Concen: 0.082 ng

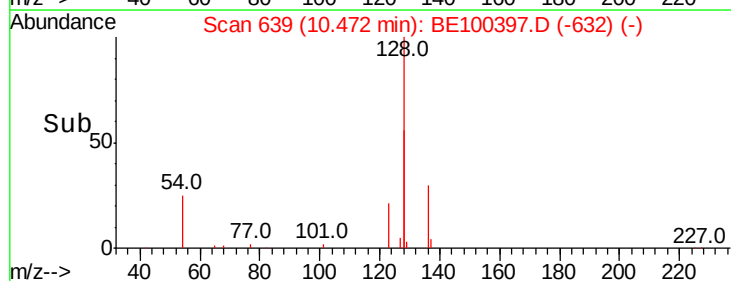
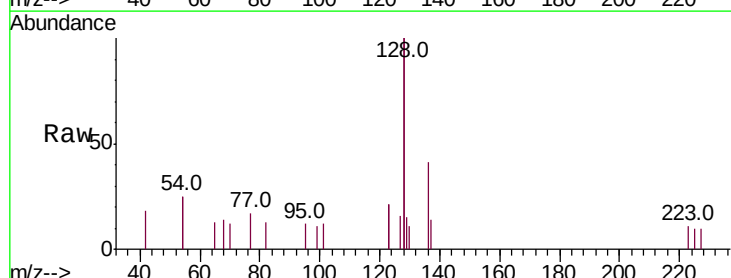
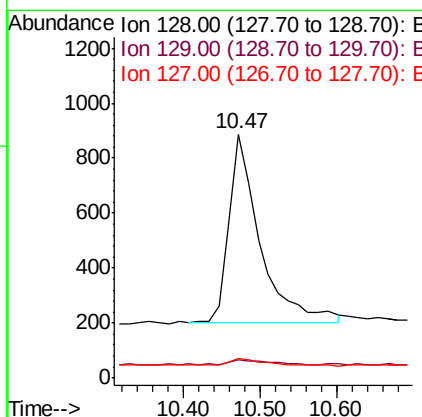
RT: 10.47 min Scan# 639

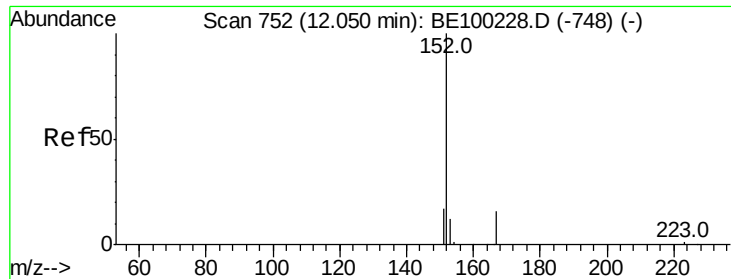
Delta R.T. -0.01 min

Lab File: BE100397.D

Acq: 6 Jul 2019 1:14

Tgt Ion:	128	Resp:	1949
Ion	Ratio	Lower	Upper
128	100		
129	7.7	3.0	4.6#
127	7.8	3.5	5.3#





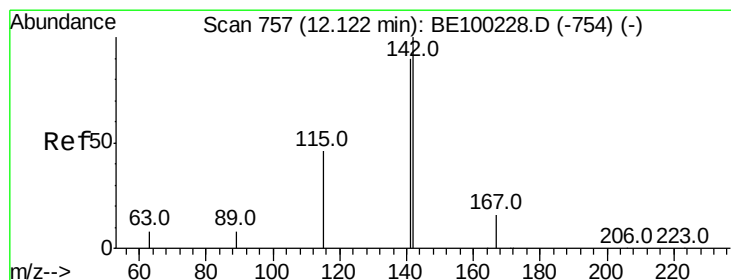
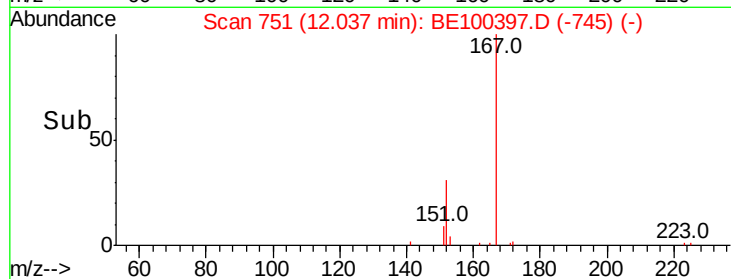
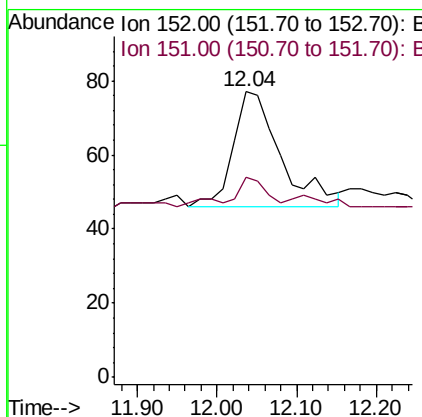
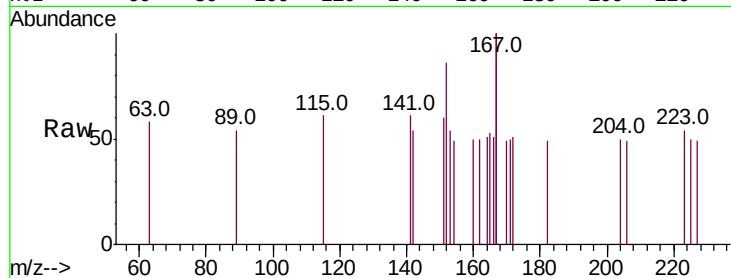
#11
2-Methylnaphthalene-d10
Concen: 0.032 ng
RT: 12.04 min Scan# 751
Delta R.T. -0.01 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW082-062519DL

Tot Ion:152 Resp: 129
Ion Ratio Lower Upper
152 100
151 17.8 15.1 22.7

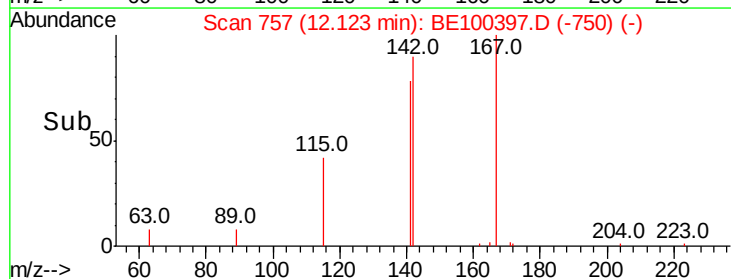
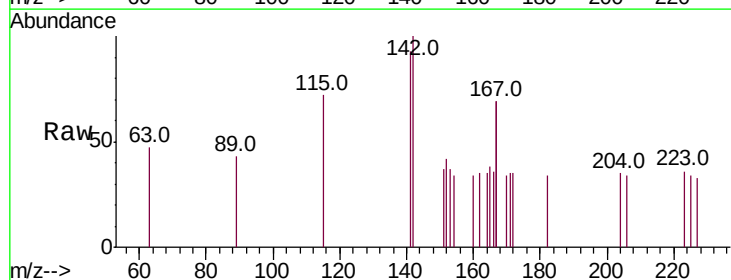
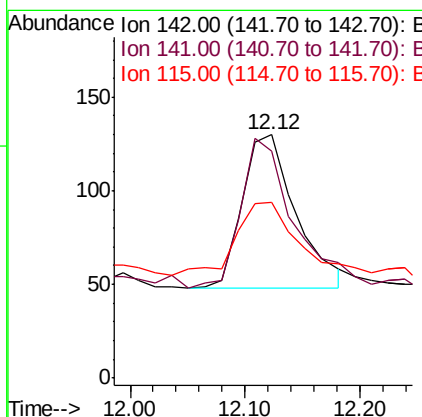
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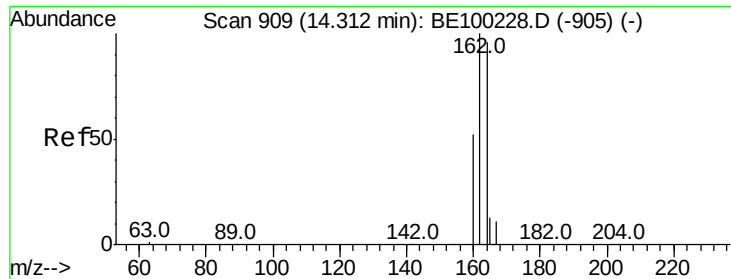
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#12
2-Methylnaphthalene
Concen: 0.064 ng
RT: 12.12 min Scan# 757
Delta R.T. 0.00 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Tgt Ion:142 Resp: 265
Ion Ratio Lower Upper
142 100
141 93.1 72.4 108.6
115 72.3 40.4 60.6#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.30 min Scan# 908

Delta R.T. -0.01 min

Lab File: BE100397.D

Acq: 6 Jul 2019 1:14

Instrument :

BNA_E

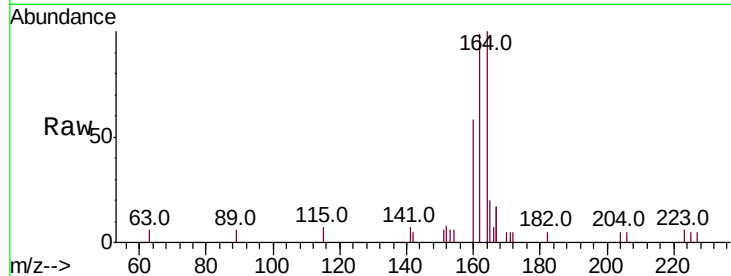
ClientSampleId :

EXT-015-SW082-062519DL

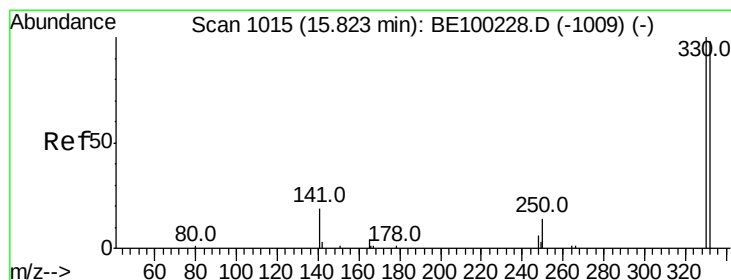
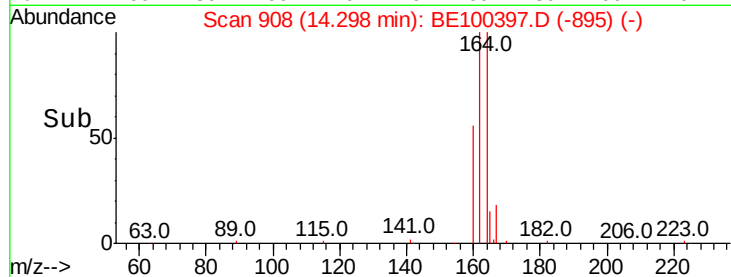
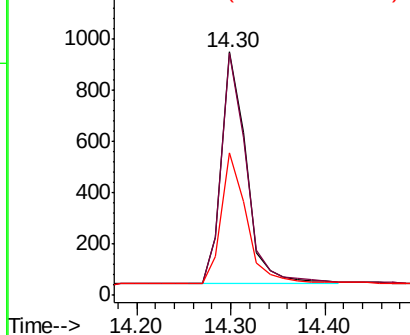
Tot Ion:	164	Resp:	1668
Ion	Ratio	Lower	Upper
164	100		
162	99.4	83.4	125.0
160	58.3	45.0	67.6

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.030 ng

RT: 15.81 min Scan# 1014

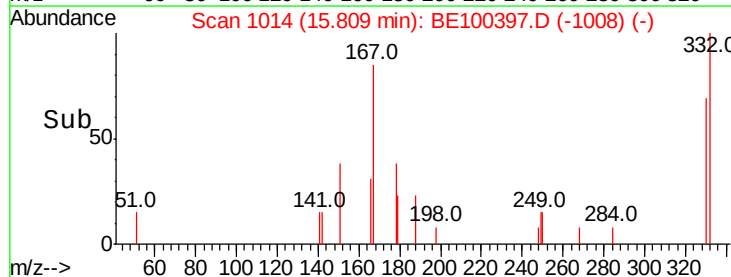
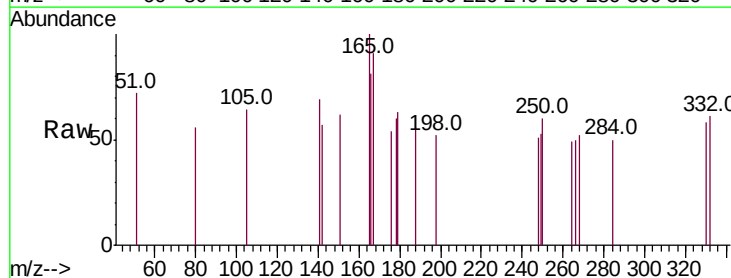
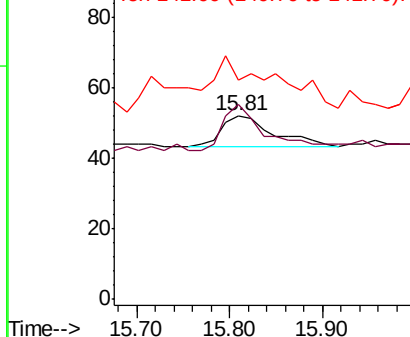
Delta R.T. -0.01 min

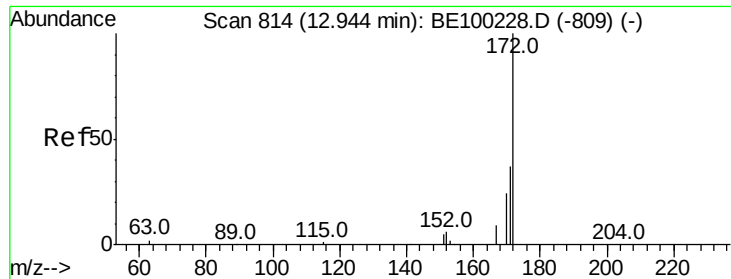
Lab File: BE100397.D

Acq: 6 Jul 2019 1:14

Tgt Ion:	330	Resp:	35
Ion	Ratio	Lower	Upper
330	100		
332	120.0	77.0	115.4#
141	185.7	22.0	33.0#

Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





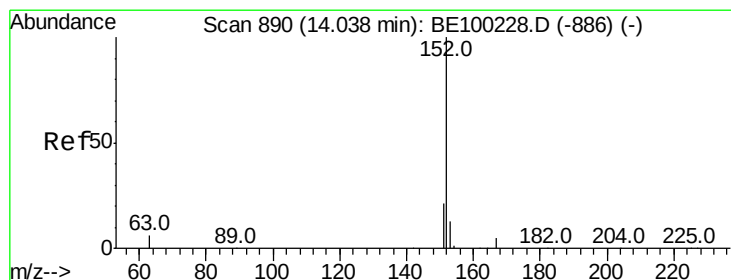
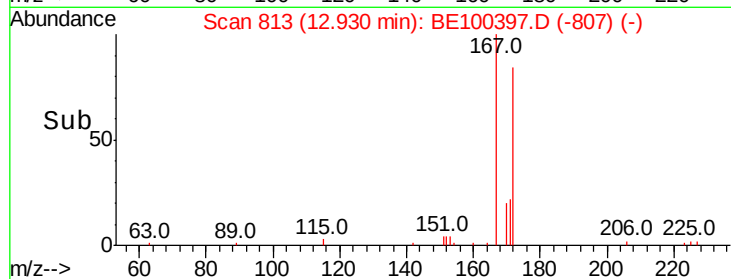
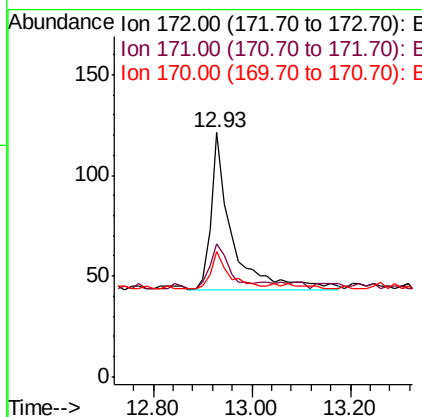
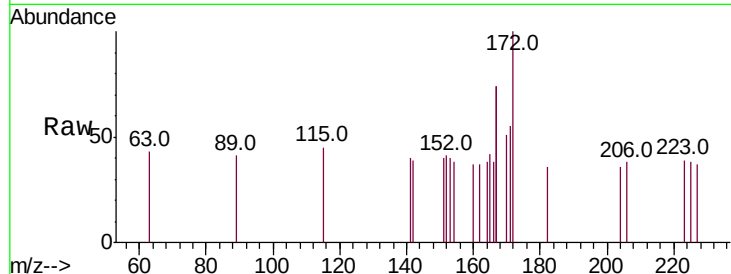
#15
2-Fluorobiphenyl
Concen: 0.036 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW082-062519DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	54.5	31.9	47.9#
170	51.2	22.2	33.2#

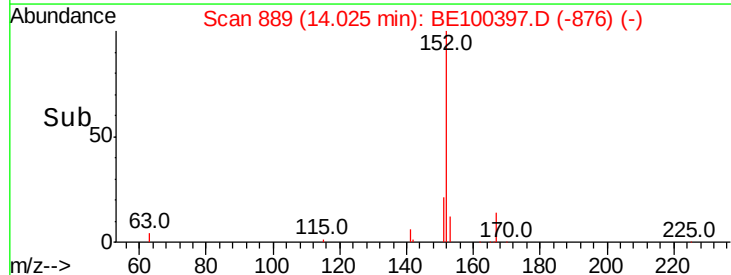
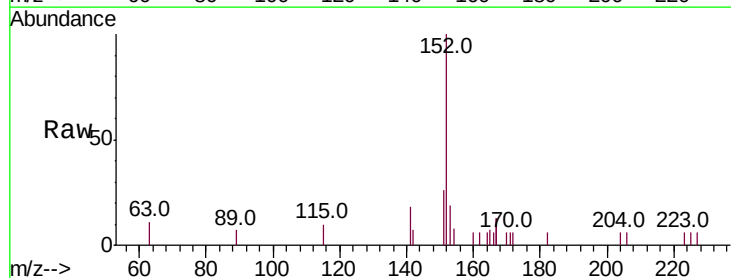
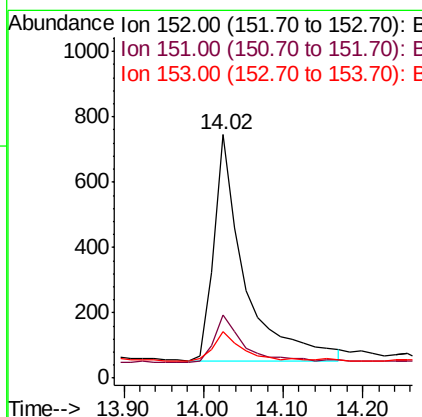
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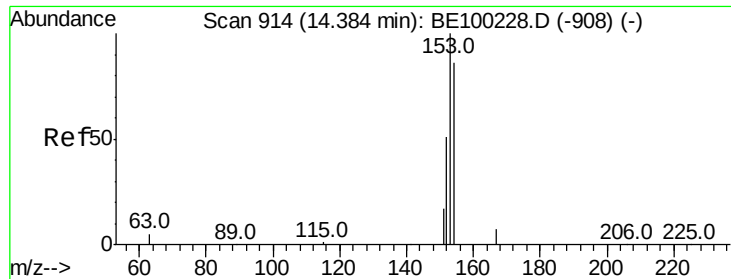
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#16
Acenaphthylene
Concen: 0.229 ng
RT: 14.02 min Scan# 889
Delta R.T. -0.01 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.6	25.0
153	13.2	10.5	15.7





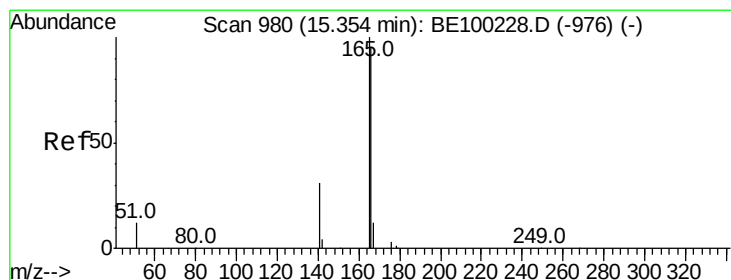
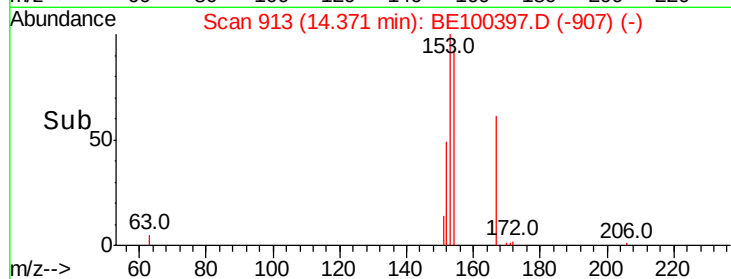
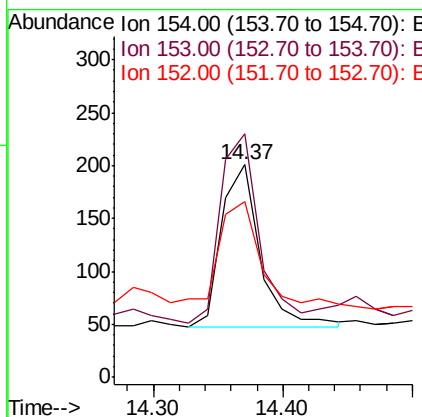
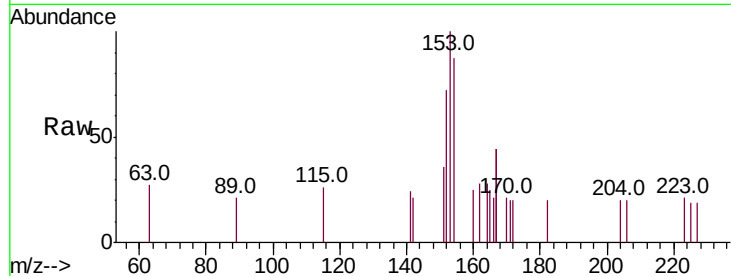
#17
Acenaphthene
Concen: 0.069 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW082-062519DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	118.4	93.4	140.2
152	69.5	49.4	74.2

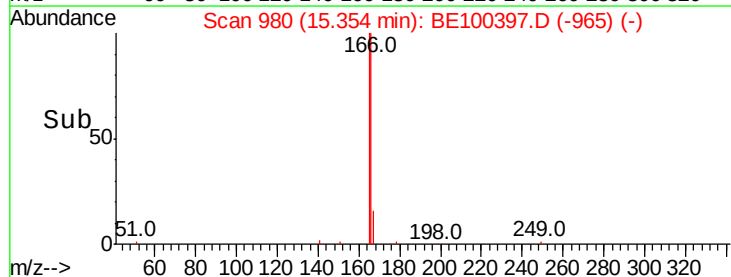
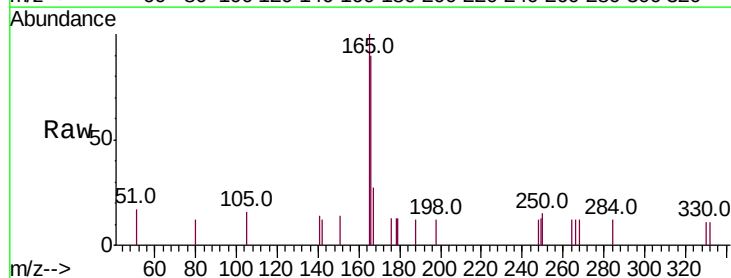
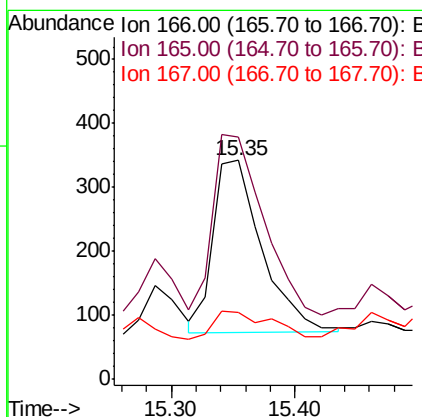
Manual Integrations
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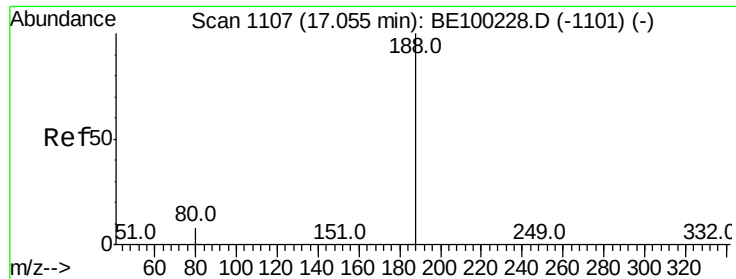
mohammad
7/8/2019 2:14:20 PM



#18
Fluorene
Concen: 0.110 ng
RT: 15.35 min Scan# 980
Delta R.T. -0.00 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Lower	Upper
166	100		
165	111.0	81.1	121.7
167	18.8	10.7	16.1#





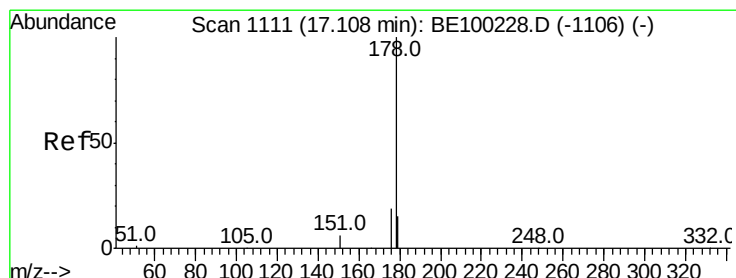
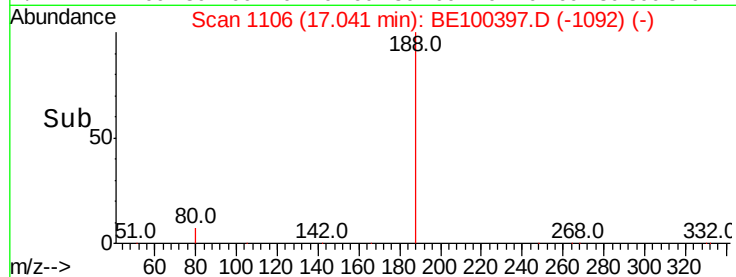
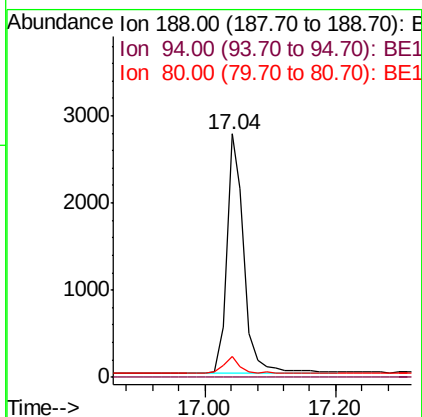
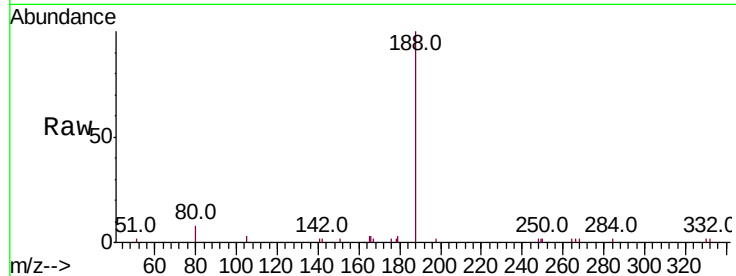
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.04 min Scan# 1106
Delta R.T. -0.01 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW082-062519DL

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	0.0	0.0	0.0
80	8.3	7.6	11.4

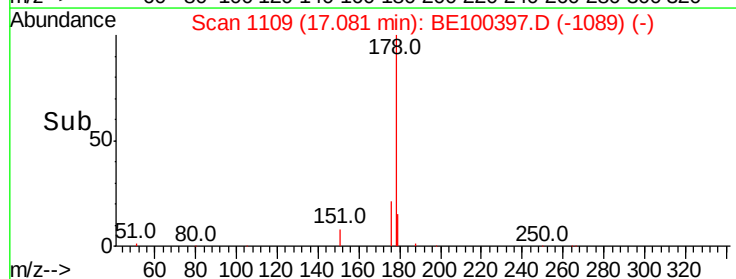
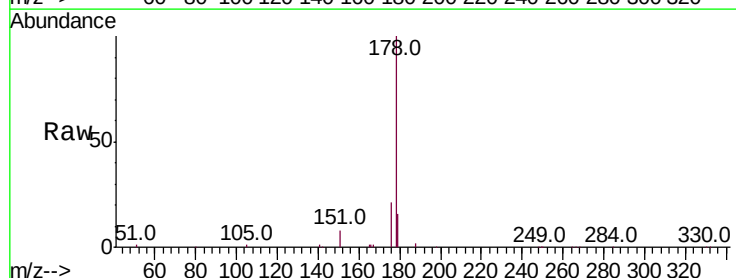
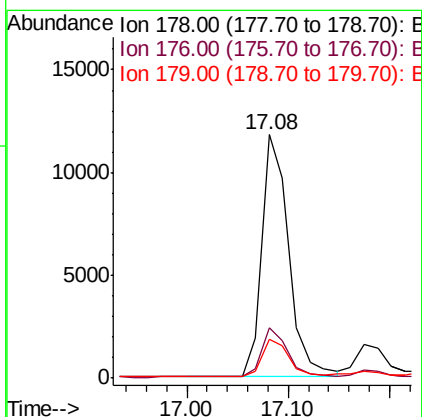
Manual Integrations
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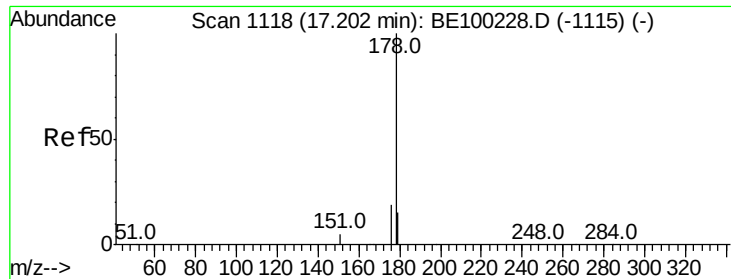
mohammad
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#23
Phenanthrene
Concen: 1.767 ng
RT: 17.08 min Scan# 1109
Delta R.T. -0.03 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.9	15.9	23.9
179	15.6	12.2	18.2





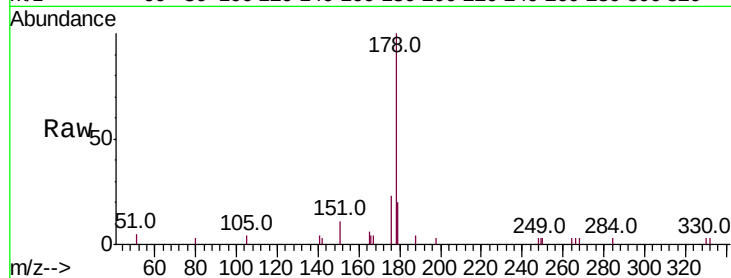
#24
 Anthracene
 Concen: 0.274 ng
 RT: 17.17 min Scan# 1116
 Delta R.T. -0.03 min
 Lab File: BE100397.D
 Acq: 6 Jul 2019 1:14

Instrument :
 BNA_E
 ClientSampleId :
 EXT-015-SW082-062519DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.3	22.9
179	9.7	12.2	18.2#

Manual Integrations
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Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

15000

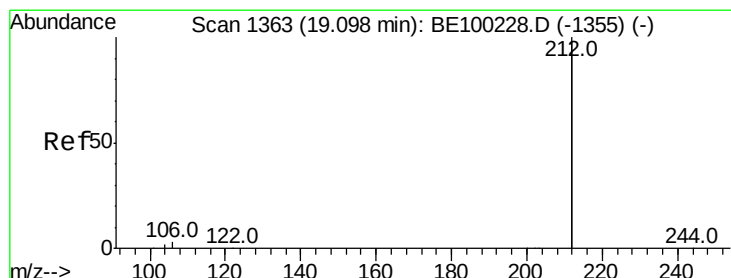
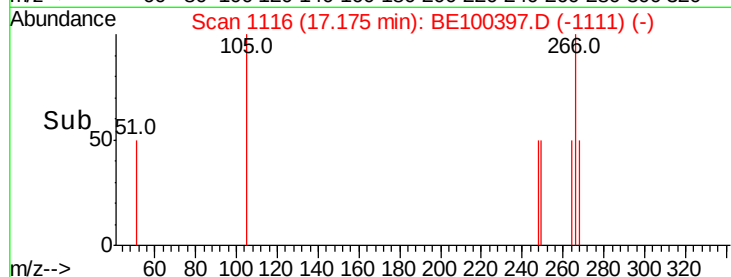
10000

5000

0

17.10 17.20 17.30

Time-->



#25
 Fluoranthene-d10
 Concen: 0.022 ng
 RT: 19.08 min Scan# 1360
 Delta R.T. -0.02 min
 Lab File: BE100397.D
 Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Lower	Upper
212	100		
106	2.0	1.3	1.9#
104	1.2	0.8	1.2#

Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

2000

1500

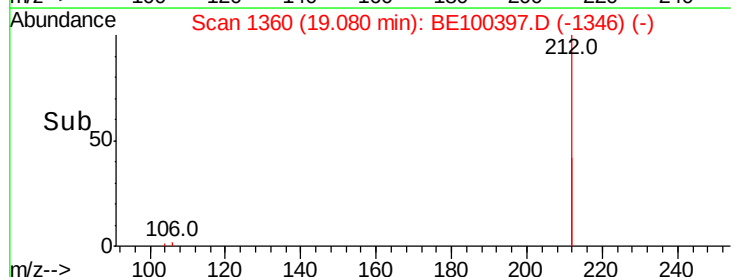
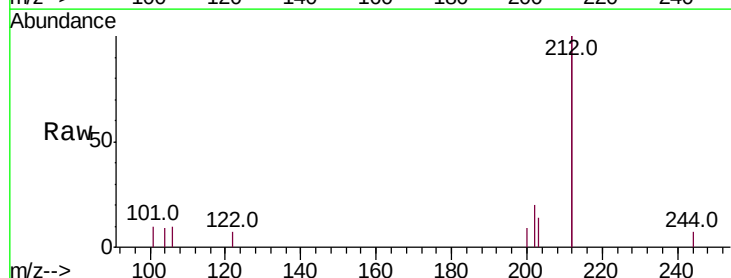
1000

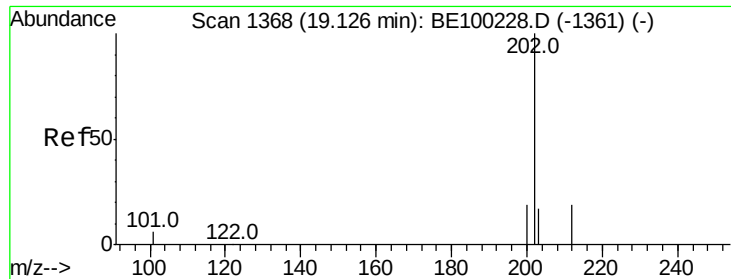
500

0

19.05 19.10

Time-->





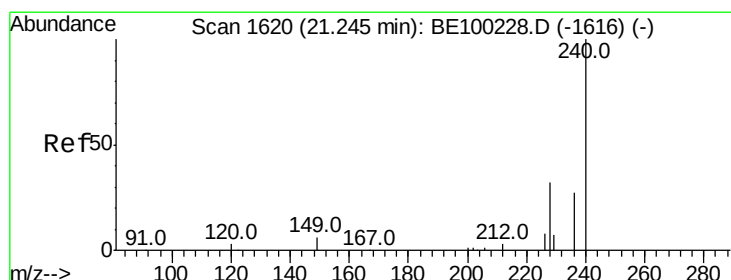
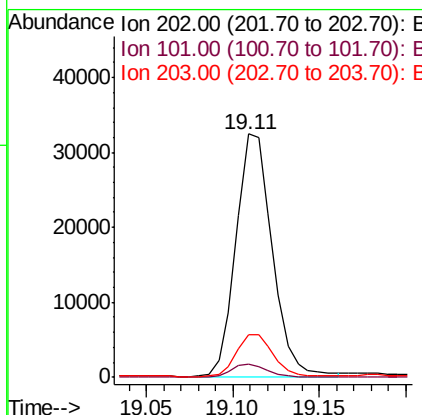
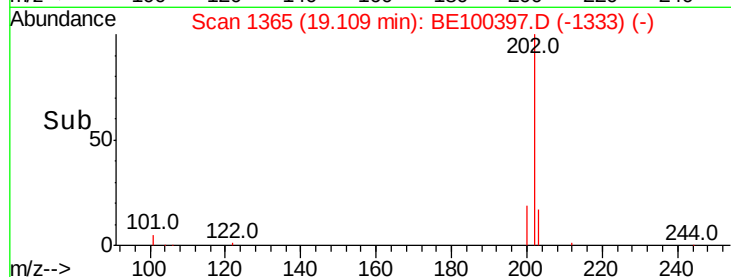
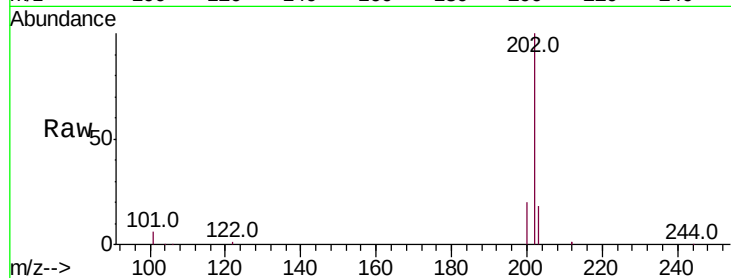
#26
 Fluoranthene
 Concen: 2.408 ng
 RT: 19.11 min Scan# 1365
 Delta R.T. -0.02 min
 Lab File: BE100397.D
 Acq: 6 Jul 2019 1:14

Instrument :
 BNA_E
 ClientSampleId :
 EXT-015-SW082-062519DL

Tot Ion	Ratio	Lower	Upper
202	100		
101	5.2	4.6	7.0
203	17.7	13.7	20.5

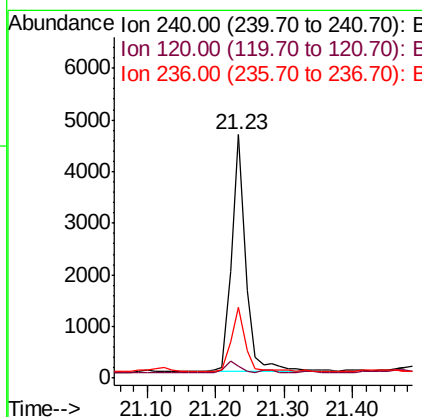
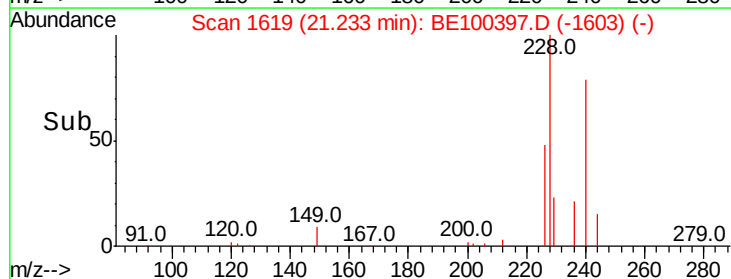
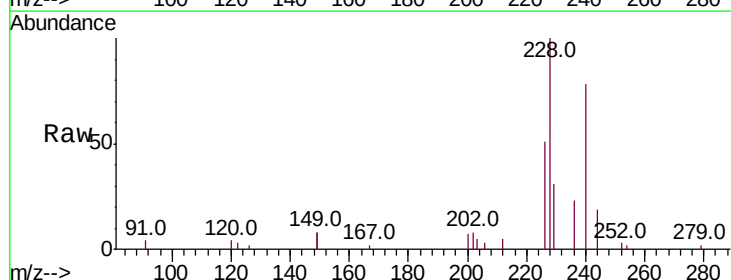
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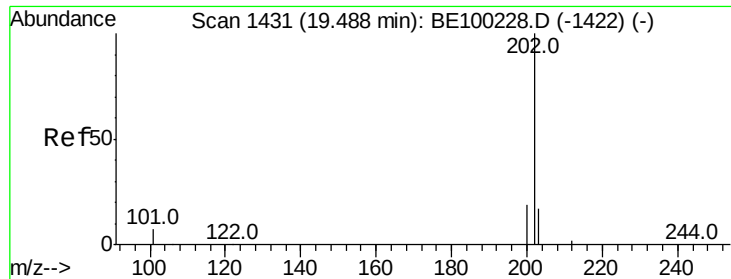
mohammad
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#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.23 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BE100397.D
 Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Lower	Upper
240	100		
120	4.8	3.3	4.9
236	29.1	22.6	34.0





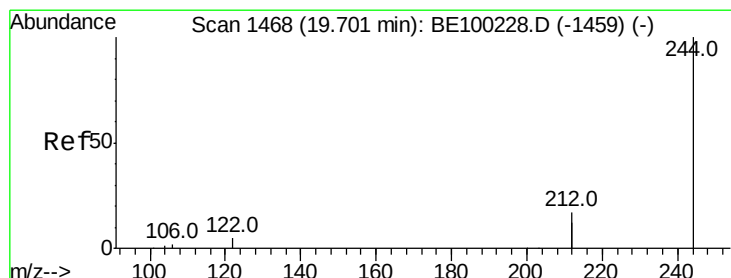
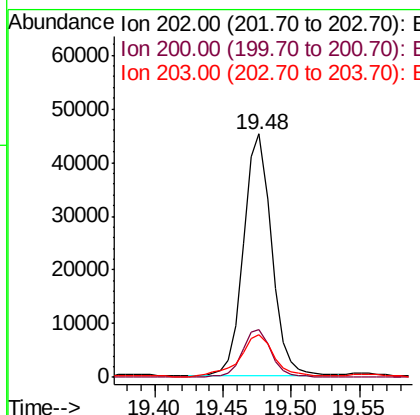
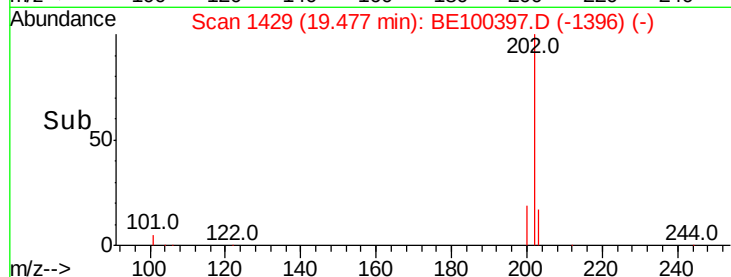
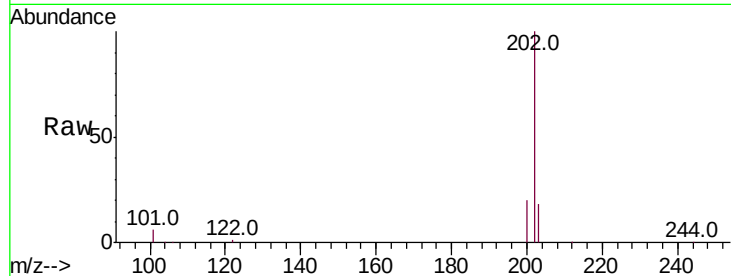
#28
Pvrene
Concen: 3.674 ng
RT: 19.48 min Scan# 1429
Delta R.T. -0.01 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW082-062519DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.6	15.6	23.4
203	20.5	14.0	21.0

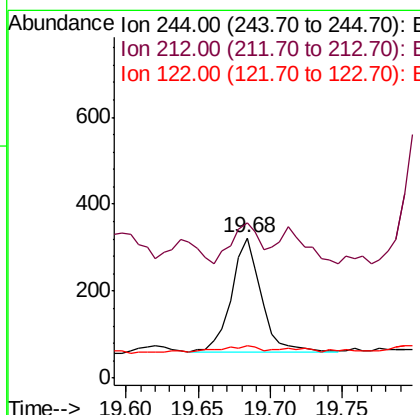
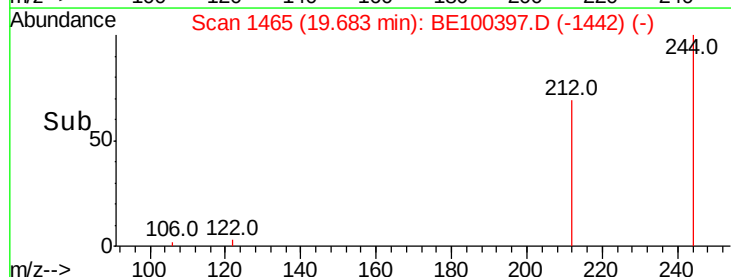
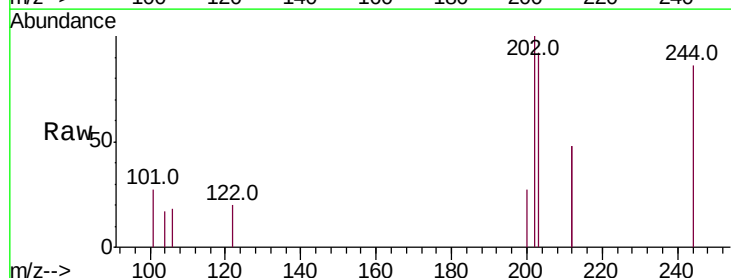
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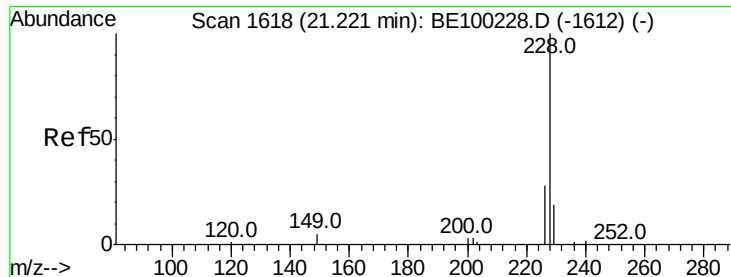
mohammad
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#29
Terphenyl-d14
Concen: 0.027 ng
RT: 19.68 min Scan# 1465
Delta R.T. -0.02 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Lower	Upper
244	100		
212	111.2	27.3	40.9#
122	23.0	4.7	7.1#





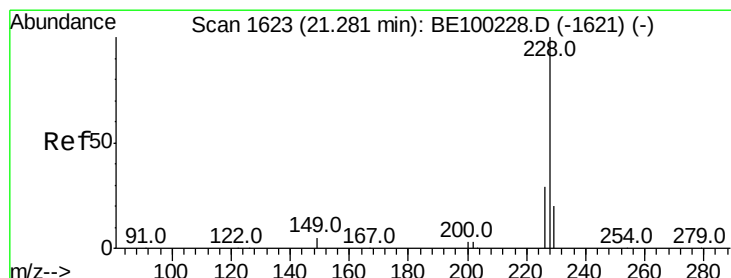
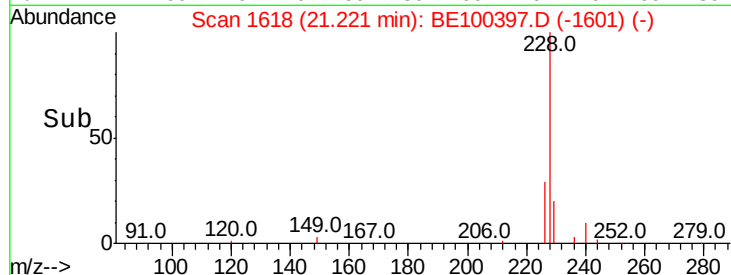
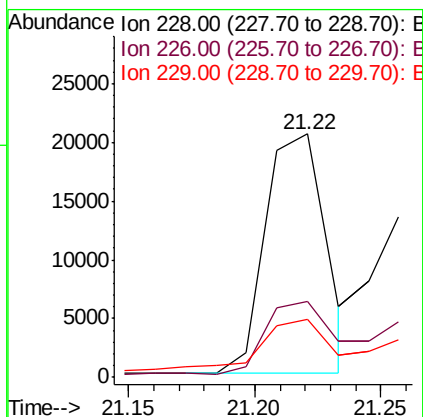
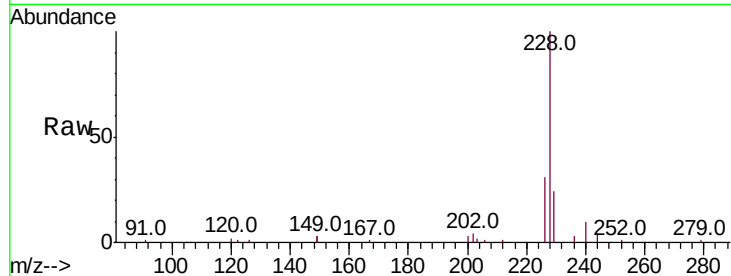
#30
Benzo(a)anthracene
Concen: 1.564 ng m
RT: 21.22 min Scan# 1618
Delta R.T. 0.00 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW082-062519DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.2	34.8
229	23.9	15.7	23.5

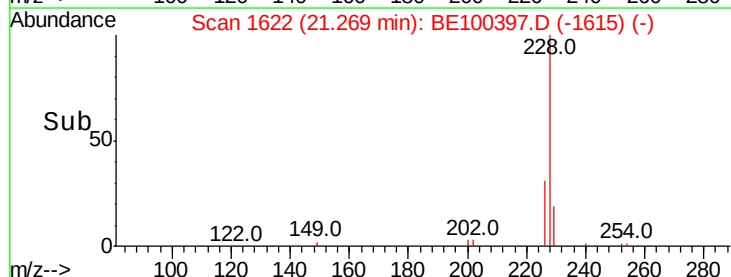
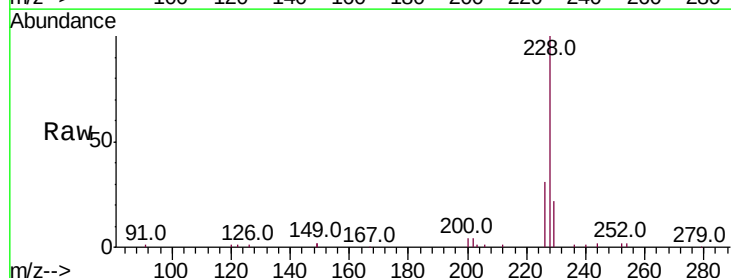
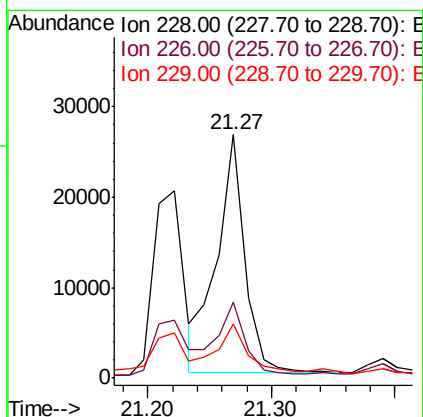
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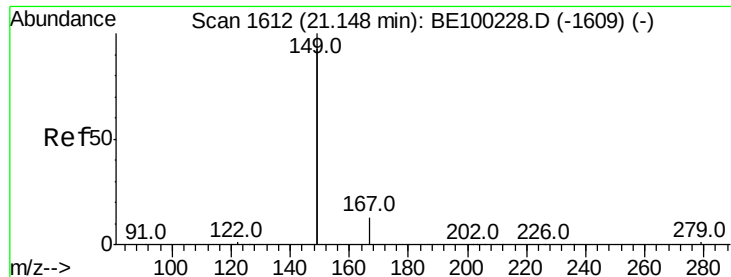
mohammad
7/8/2019 2:14:20 PM



#31
Chrysene
Concen: 1.903 ng
RT: 21.27 min Scan# 1622
Delta R.T. -0.01 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	23.9	35.9
229	22.2	16.5	24.7





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.051 ng

RT: 21.14 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BE100397.D

Acq: 6 Jul 2019 1:14

Instrument :

BNA_E

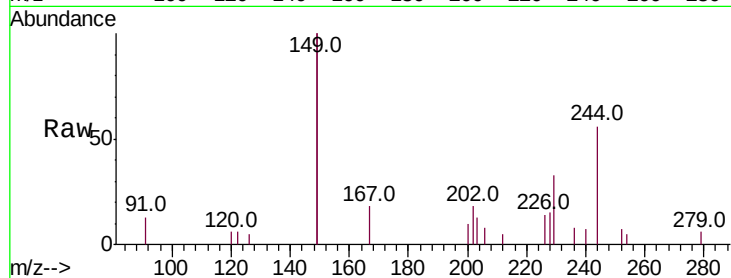
ClientSampleId :

EXT-015-SW082-062519DL

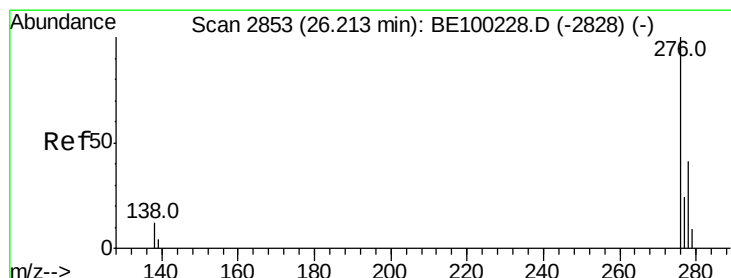
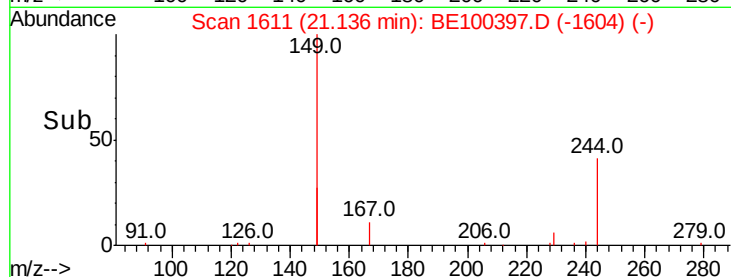
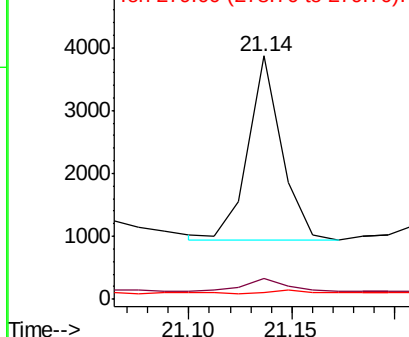
Tot Ion:	149	Resp:	3334
Ion Ratio	Lower	Upper	
149	100		
167	8.6	5.8	8.8
279	2.1	1.1	1.7#

Manual Integrations
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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: 0.768 ng

RT: 26.20 min Scan# 2848

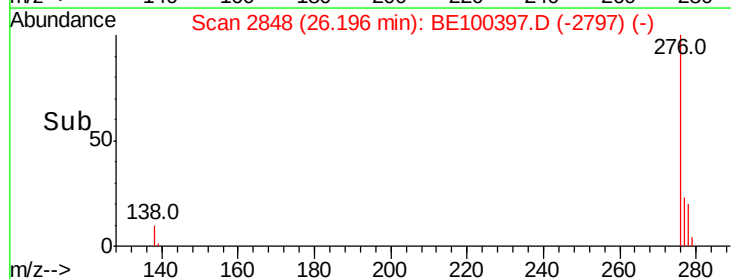
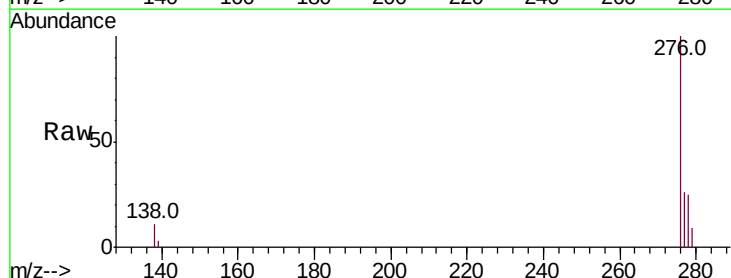
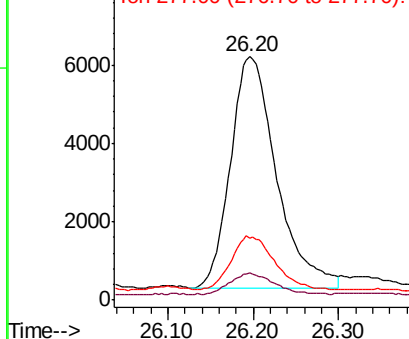
Delta R.T. -0.02 min

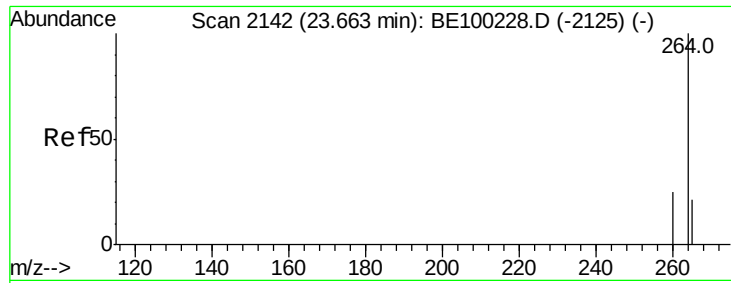
Lab File: BE100397.D

Acq: 6 Jul 2019 1:14

Tgt Ion:	276	Resp:	22229
Ion Ratio	Lower	Upper	
276	100		
138	9.0	9.4	14.0#
277	22.1	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





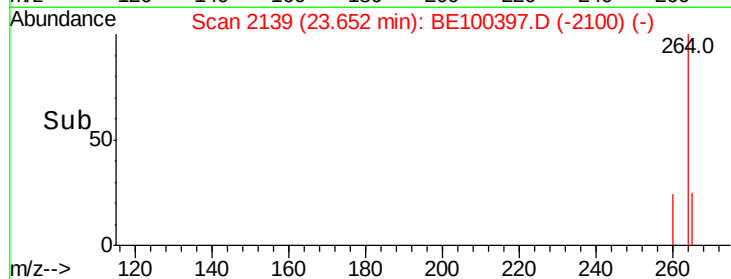
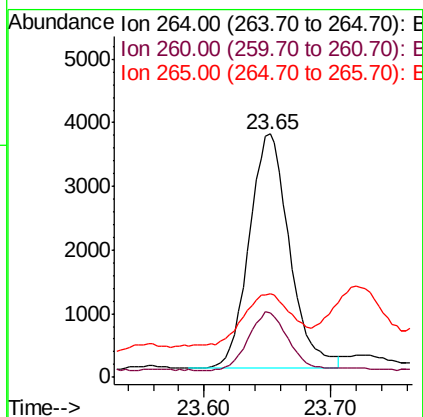
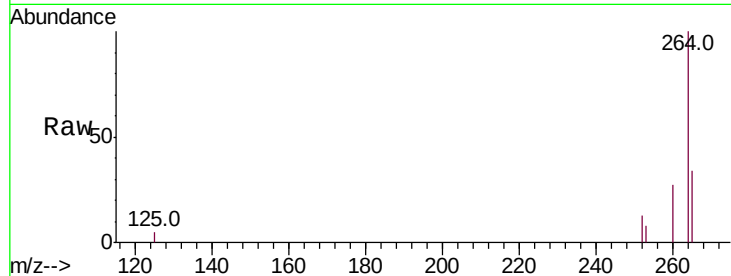
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.65 min Scan# 2139
Delta R.T. -0.01 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW082-062519DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.7	20.8	31.2
265	34.4	21.8	32.6

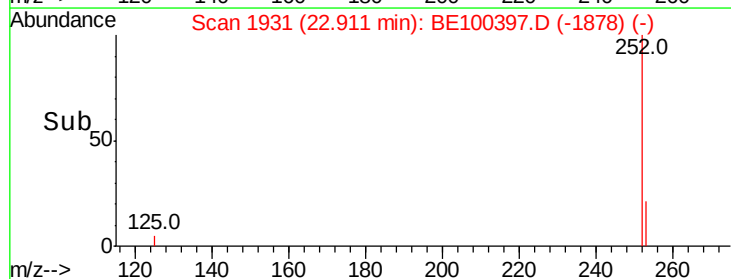
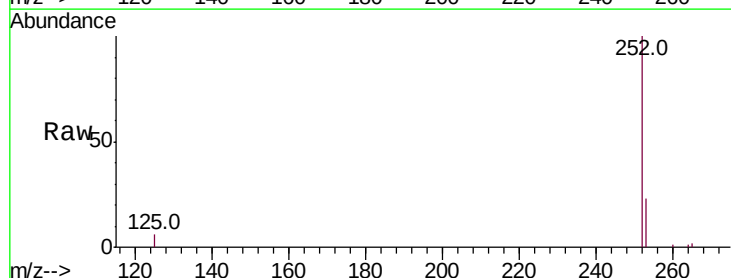
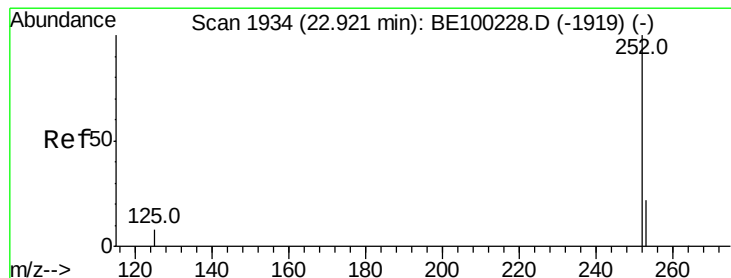
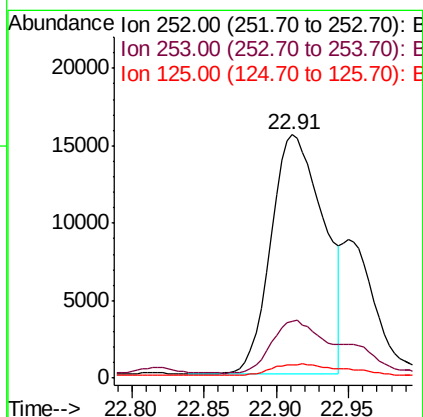
Manual Integrations
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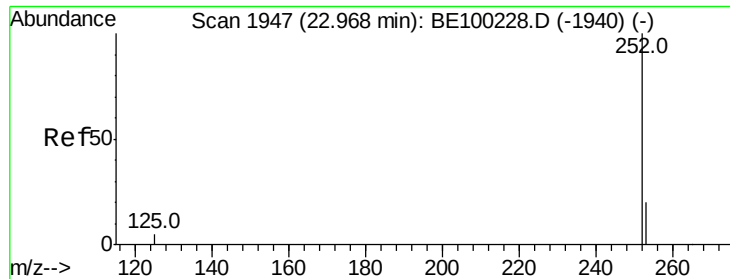
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#35
Benzo(b)fluoranthene
Concen: 1.765 ng
RT: 22.91 min Scan# 1931
Delta R.T. -0.01 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.2	28.8
125	5.6	7.4	11.0





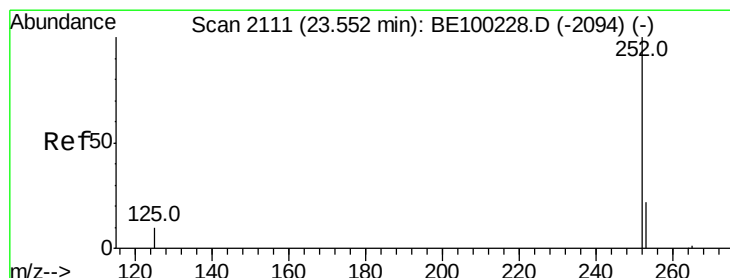
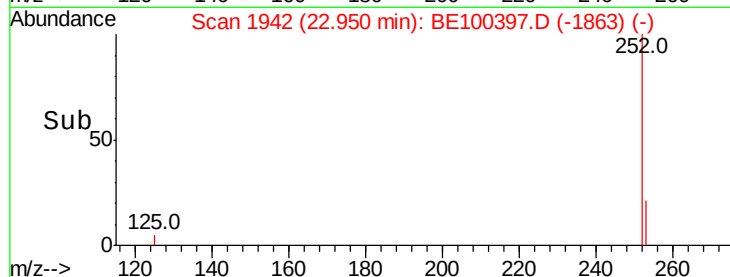
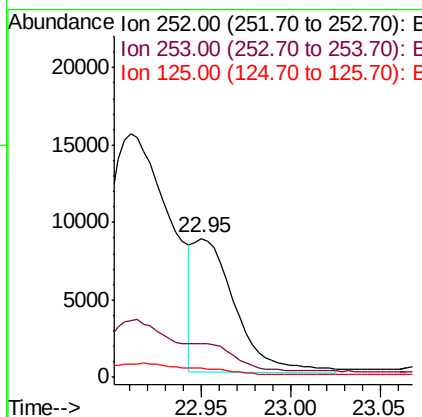
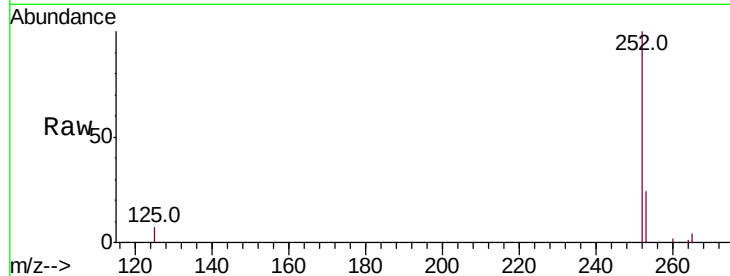
#36
Benzo(k)fluoranthene
Concen: 0.572 ng m
RT: 22.95 min Scan# 1942
Delta R.T. -0.02 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Instrument :
BNA_E
ClientSampleId :
EXT-015-SW082-062519DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	6.5	5.0	7.4

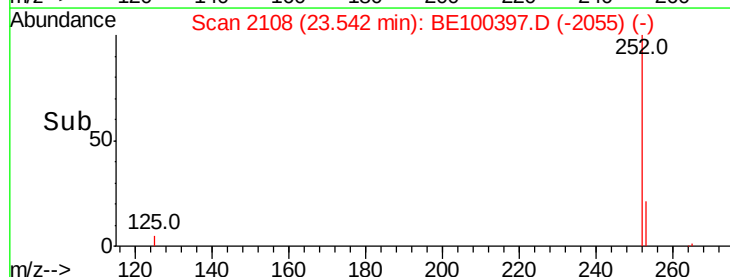
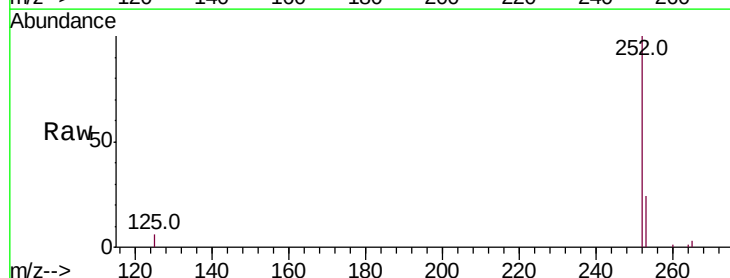
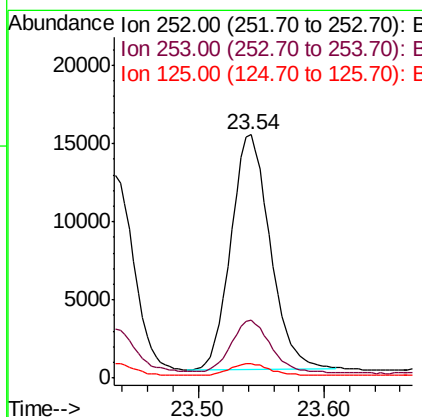
Manual Integrations
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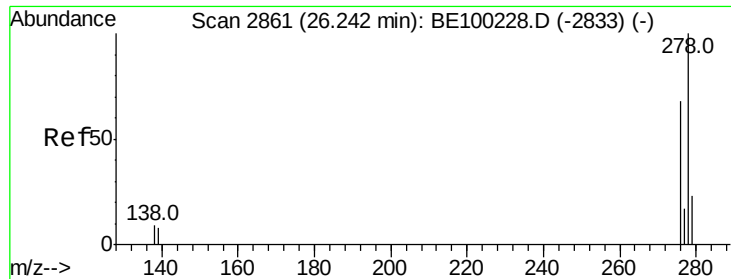
mohammad
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#37
Benzo(a)pyrene
Concen: 1.446 ng m
RT: 23.54 min Scan# 2108
Delta R.T. -0.01 min
Lab File: BE100397.D
Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	19.6	29.4
125	5.7	9.0	13.6





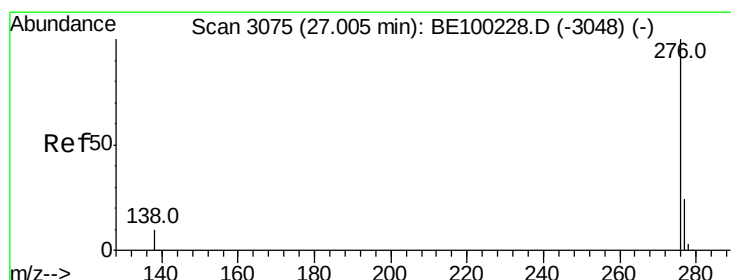
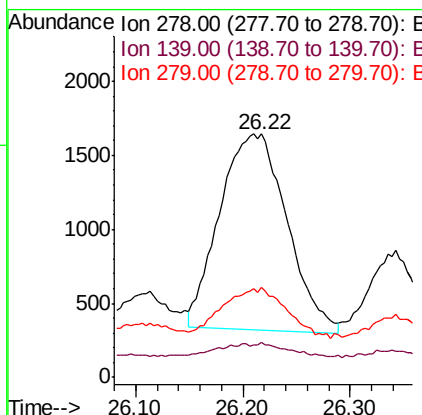
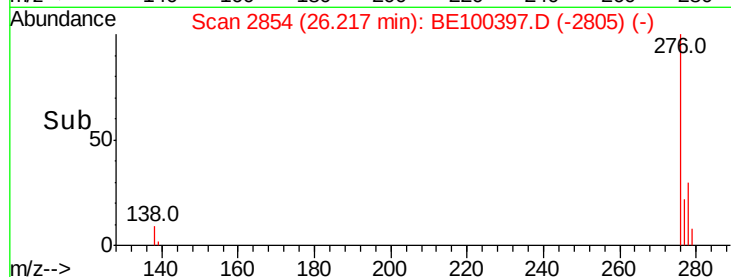
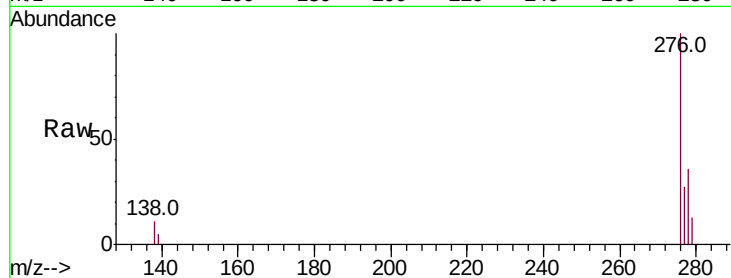
#38
 Dibenzo(a,h)anthracene
 Concen: 0.246 ng
 RT: 26.22 min Scan# 2854
 Delta R.T. -0.02 min
 Lab File: BE100397.D
 Acq: 6 Jul 2019 1:14

Instrument :
 BNA_E
 ClientSampleId :
 EXT-015-SW082-062519DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	14.2	8.2	12.2#
279	37.0	20.3	30.5#

Manual Integrations
 APPROVED

mohammad
 7/8/2019 2:14:20 PM



#39
 Benzo(g,h,i)perylene
 Concen: 1.110 ng
 RT: 26.99 min Scan# 3070
 Delta R.T. -0.02 min
 Lab File: BE100397.D
 Acq: 6 Jul 2019 1:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	20.2	30.2
138	10.8	9.0	13.6

