

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070519\
 Data File : BE100384.D
 Acq On : 5 Jul 2019 16:47
 Operator : JU/SJ
 Sample : K3561-10
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-016-SW097-062519

Manual Integrations
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mohammad
 7/8/2019 2:13:53 PM

Quant Time: Jul 06 00:40:58 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	7.62	152	683	0.40	ng	-0.02
7) Naphthalene-d8	10.42	136	2518	0.40	ng	-0.03
13) Acenaphthene-d10	14.30	164	2138	0.40	ng	-0.01
19) Phenanthrene-d10	17.04	188	6279	0.40	ng	-0.01
27) Chrysene-d12	21.23	240	9083	0.40	ng	-0.01
34) Perylene-d12	23.66	264	11424	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.20	112	386	0.22	ng	-0.01
5) Phenol-d6	6.82	99	512	0.22	ng	-0.01
8) Nitrobenzene-d5	8.80	82	363	0.15	ng	-0.03
11) 2-Methylnaphthalene-d10	12.02	152	992	0.21	ng	-0.03
14) 2,4,6-Tribromophenol	15.80	330	358	0.24	ng	-0.03
15) 2-Fluorobiphenyl	12.92	172	1581	0.19	ng	-0.03
25) Fluoranthene-d10	19.09	212	15854	0.17	ng	-0.01
29) Terphenyl-d14	19.68	244	3744	0.20	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.46	128	14766	0.532	ng	99
12) 2-Methylnaphthalene	12.09	142	3249	0.667	ng	98
16) Acenaphthylene	14.02	152	21334	2.079	ng	98
17) Acenaphthene	14.36	154	2900	0.499	ng	95
18) Fluorene	15.34	166	9728	1.131	ng	# 87
22) Pentachlorophenol	16.71	266	133	0.106	ng	93
23) Phenanthrene	17.08	178	258186	16.965	ng	99
24) Anthracene	17.18	178	24265	1.771	ng	98
26) Fluoranthene	19.12	202	485130	20.013	ng	98
28) Pylene	19.48	202	672939	27.984	ng	# 96
30) Benzo(a)anthracene	21.22	228	374551	12.541	ng	97
31) Chrysene	21.27	228	373945	12.469	ng	97
32) Bis(2-ethylhexyl)phthalate	21.14	149	126926	2.949	ng	99
33) Indeno(1,2,3-cd)pyrene	26.21	276	200661	5.059	ng	# 97
35) Benzo(b)fluoranthene	22.92	252	377268m	12.181	ng	
36) Benzo(k)fluoranthene	22.96	252	131810m	3.812	ng	
37) Benzo(a)pyrene	23.55	252	290335	9.353	ng	# 92
38) Dibenzo(a,h)anthracene	26.22	278	56299	1.737	ng	92
39) Benzo(a,h,i)perylene	27.00	276	233037	6.997	ng	97

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

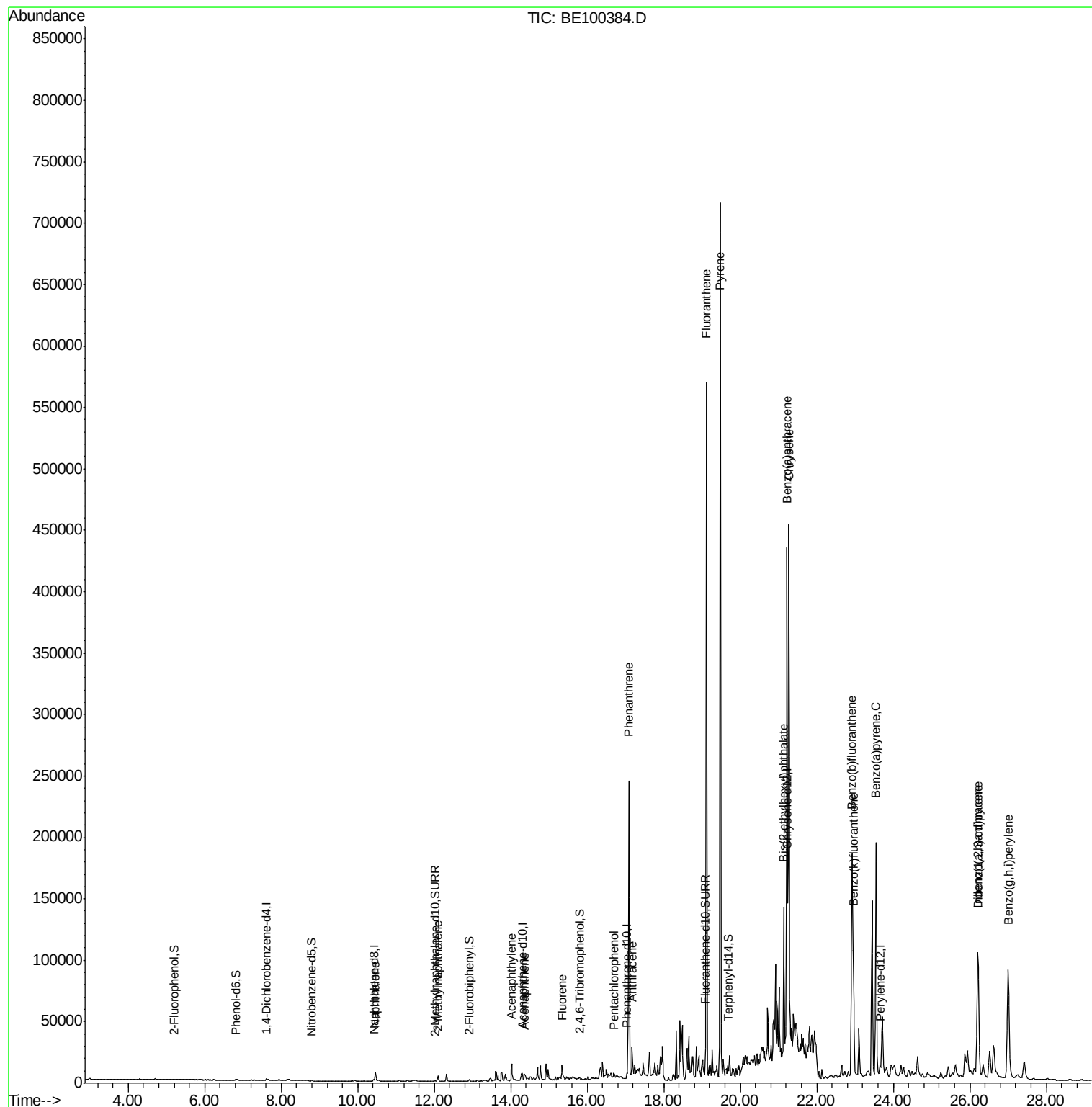
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070519\
Data File : BE100384.D
Acq On : 5 Jul 2019 16:47
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ALS Vial : 11 Sample Multiplier: 1

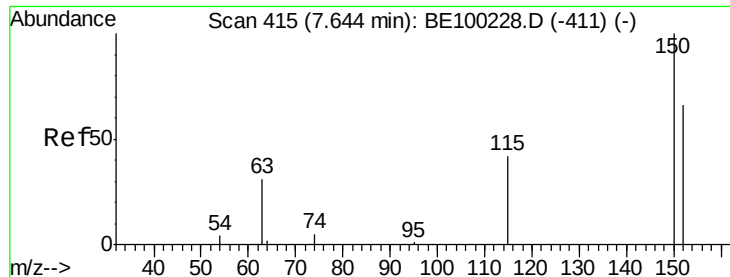
Instrument :
BNA_E
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EXT-016-SW097-062519

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#1

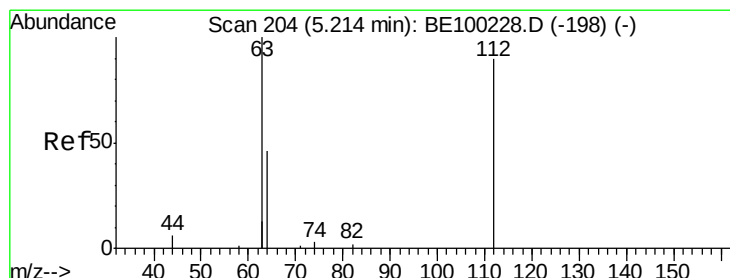
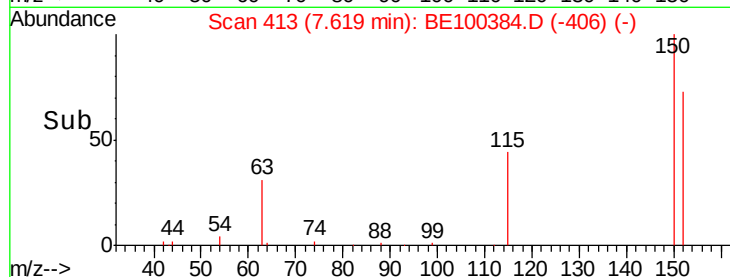
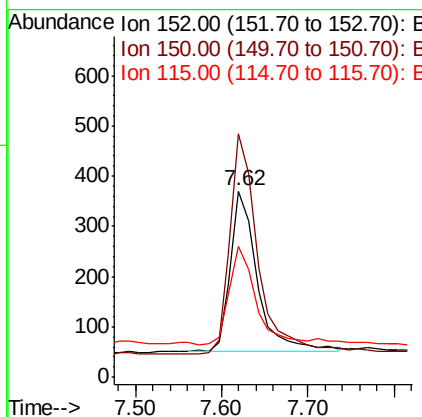
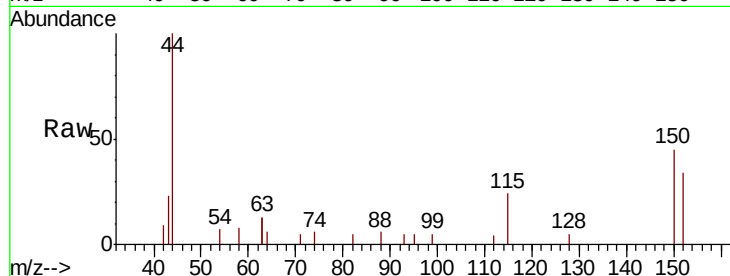
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.62 min Scan# 413
Delta R.T. -0.02 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW097-062519

Tot Ion	Ratio	Lower	Upper
152	100		
150	130.8	114.5	171.7
115	70.3	57.1	85.7

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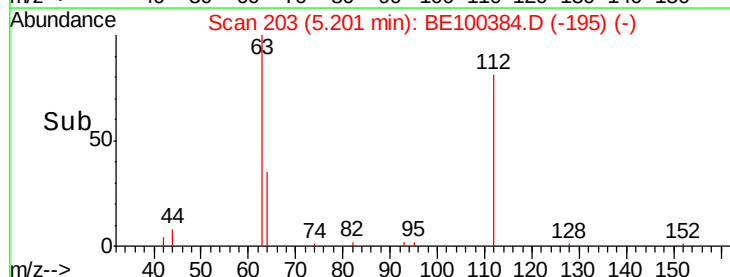
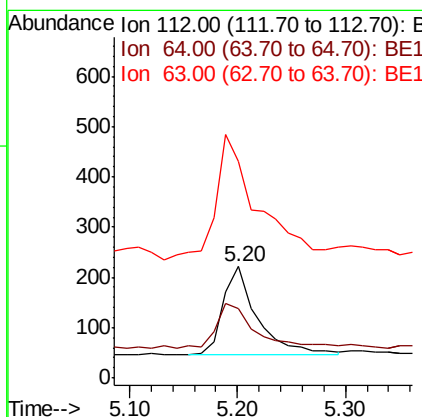
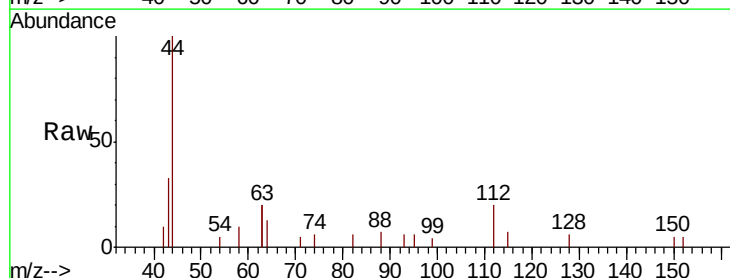
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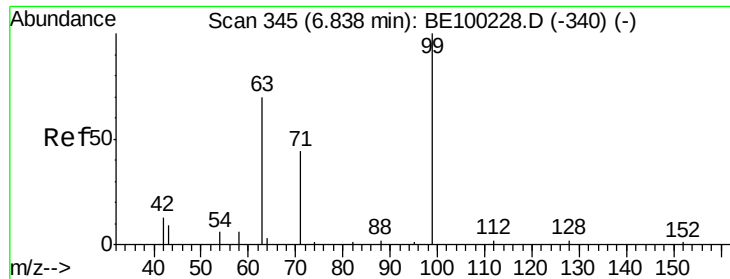


#4

2-Fluorophenol
Concen: 0.222 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	39.4	59.0#
63	174.1	104.5	156.7#





#5

Phenol-d6

Concen: 0.223 ng

RT: 6.82 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100384.D

Acq: 5 Jul 2019 16:47

Instrument :

BNA_E

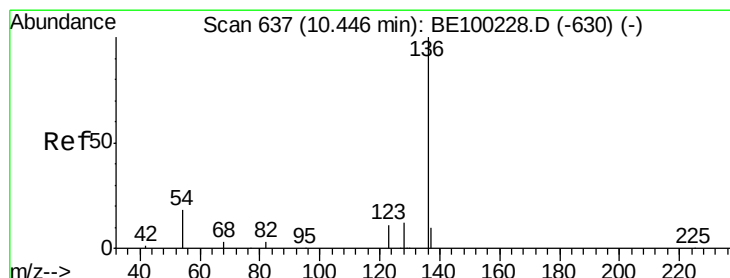
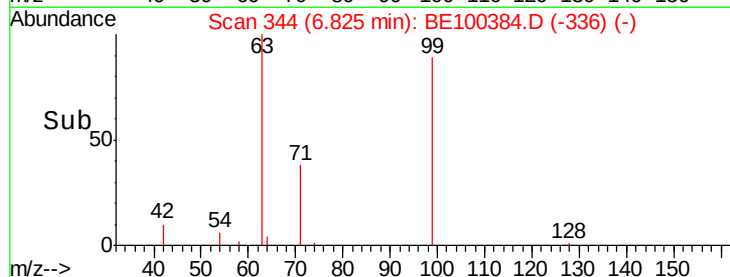
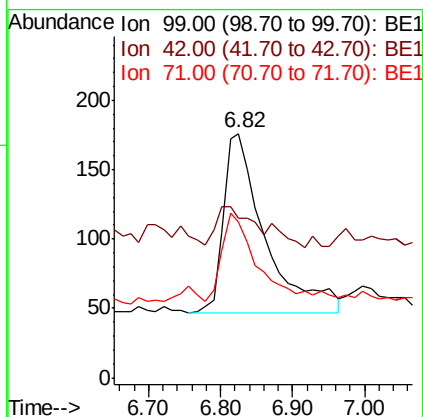
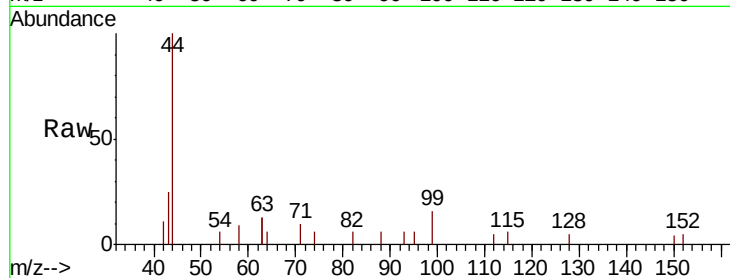
ClientSampleId :

EXT-016-SW097-062519

Tot Ion:	99	Resp:	512
Ion	Ratio	Lower	Upper
99	100		
42	0.0	11.2	16.8#
71	43.8	37.2	55.8

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#7

Naphthalene-d8

Concen: 0.400 ng

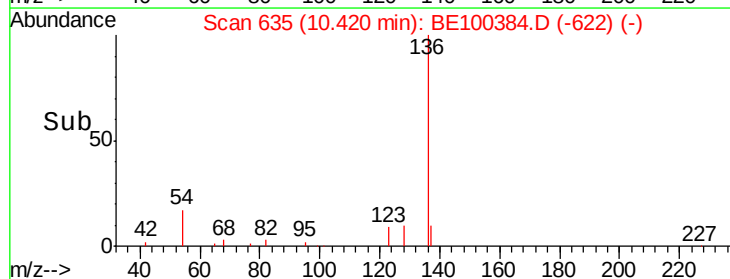
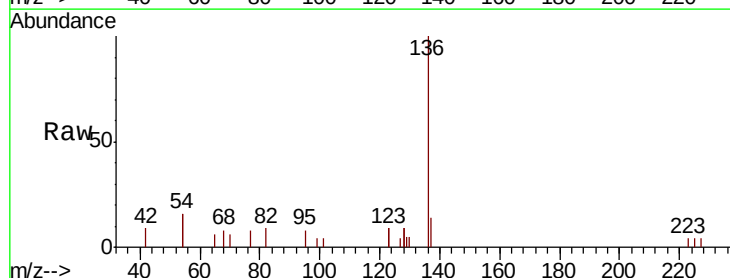
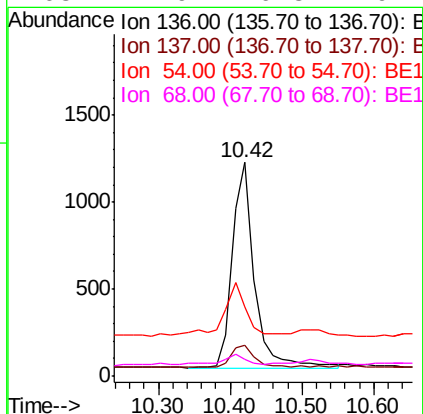
RT: 10.42 min Scan# 635

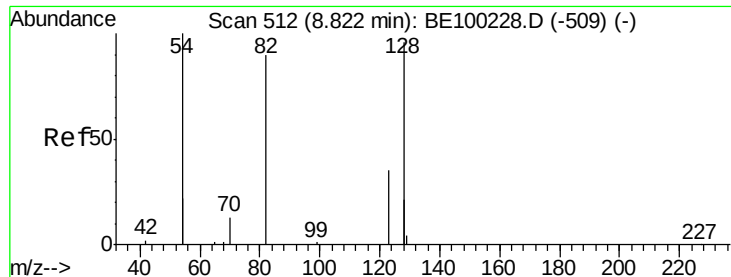
Delta R.T. -0.03 min

Lab File: BE100384.D

Acq: 5 Jul 2019 16:47

Tgt Ion:	136	Resp:	2518
Ion	Ratio	Lower	Upper
136	100		
137	14.2	11.8	17.8
54	32.1	27.7	41.5
68	7.9	6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.145 ng

RT: 8.80 min Scan# 510

Delta R.T. -0.03 min

Lab File: BE100384.D

Acq: 5 Jul 2019 16:47

Instrument :

BNA_E

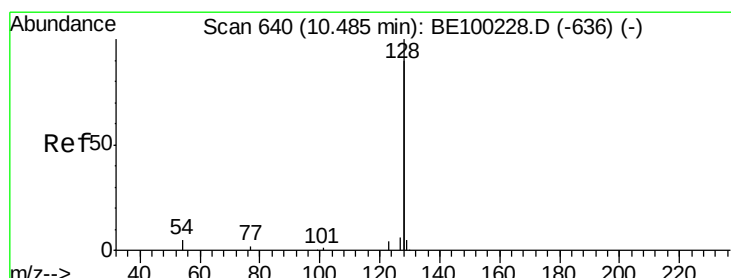
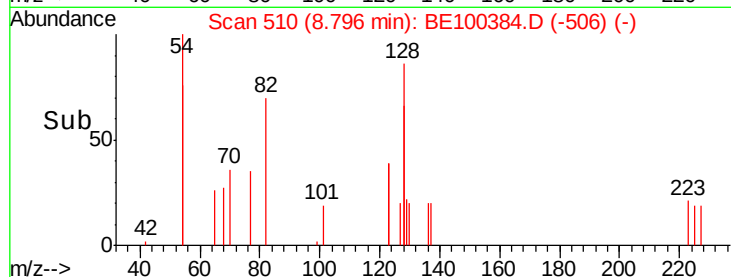
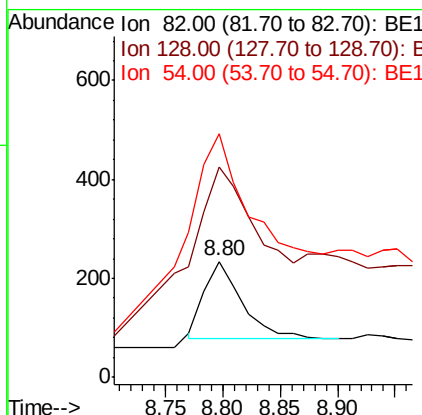
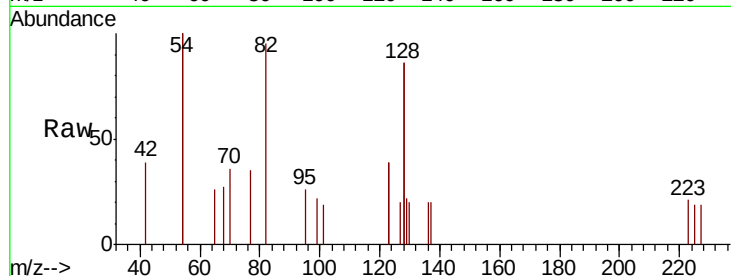
ClientSampleId :

EXT-016-SW097-062519

Tot Ion:	82	Resp:	363
Ion	Ratio	Lower	Upper
82	100		
128	181.2	140.9	211.3
54	210.3	146.2	219.2

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#9

Naphthalene

Concen: 0.532 ng

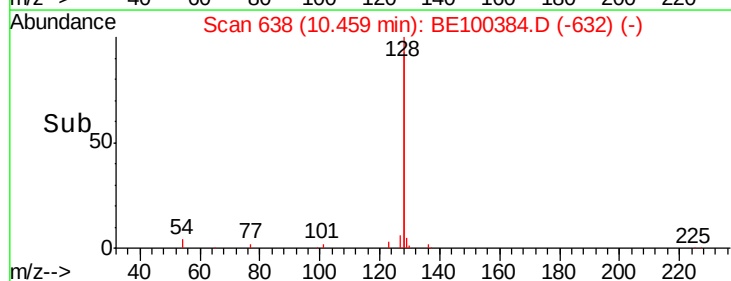
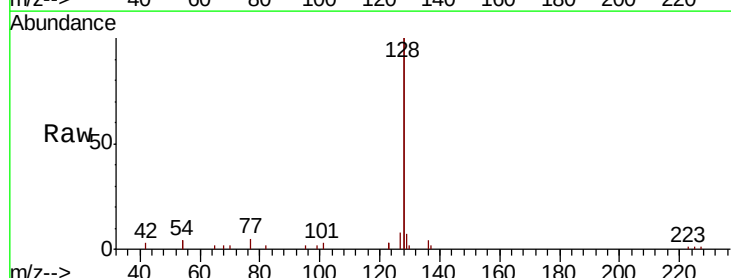
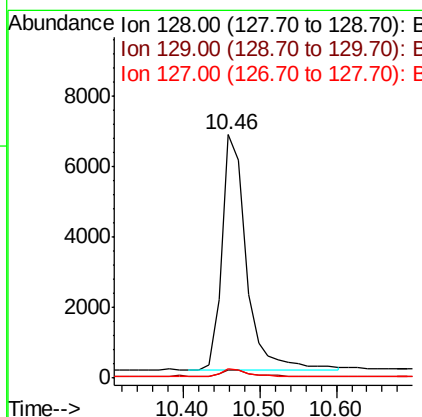
RT: 10.46 min Scan# 638

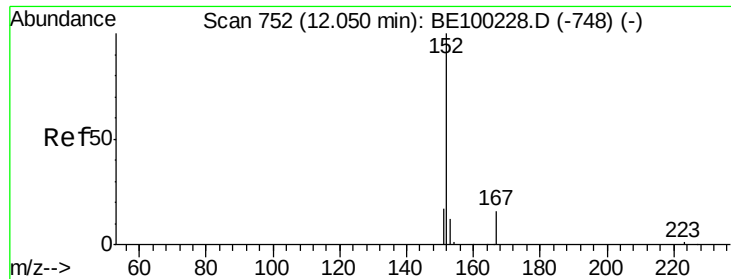
Delta R.T. -0.03 min

Lab File: BE100384.D

Acq: 5 Jul 2019 16:47

Tgt Ion:	128	Resp:	14766
Ion	Ratio	Lower	Upper
128	100		
129	3.5	3.0	4.6
127	4.0	3.5	5.3





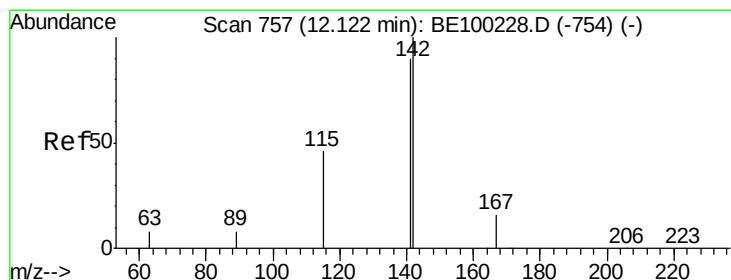
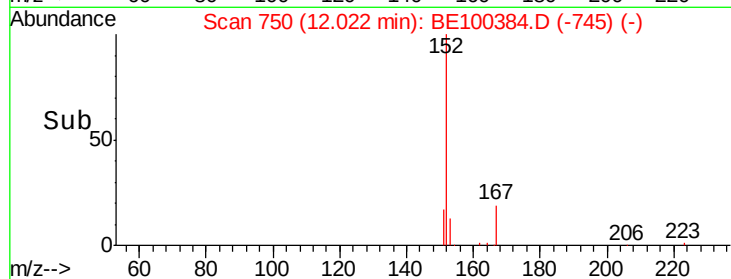
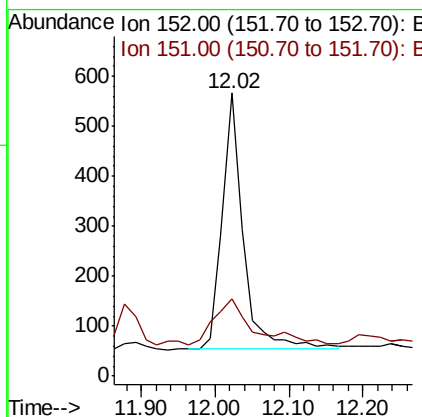
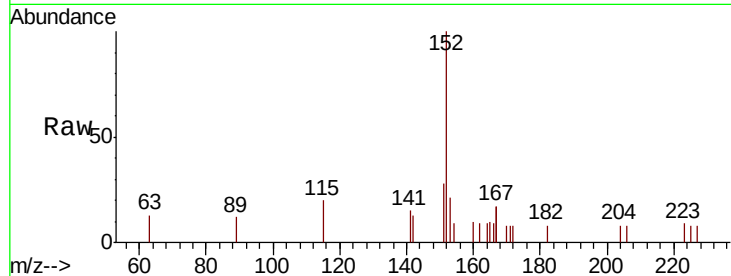
#11
2-Methylnaphthalene-d10
Concen: 0.209 ng
RT: 12.02 min Scan# 750
Delta R.T. -0.03 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW097-062519

Tot Ion:152 Resp: 992
Ion Ratio Lower Upper
152 100
151 35.4 15.1 22.7#

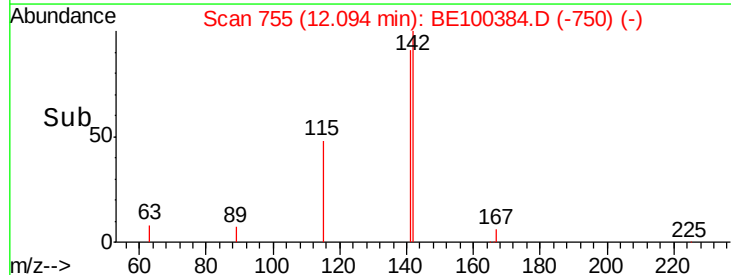
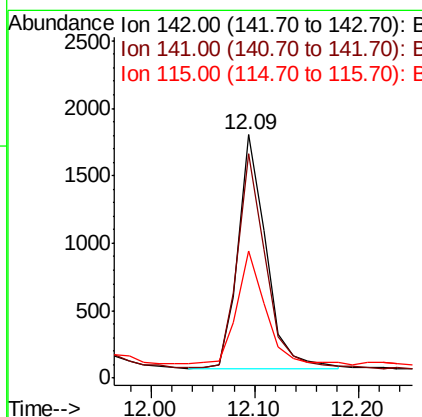
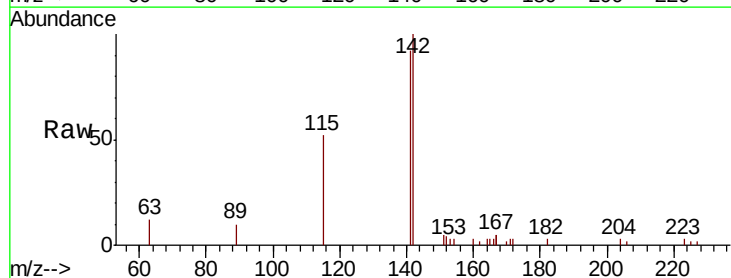
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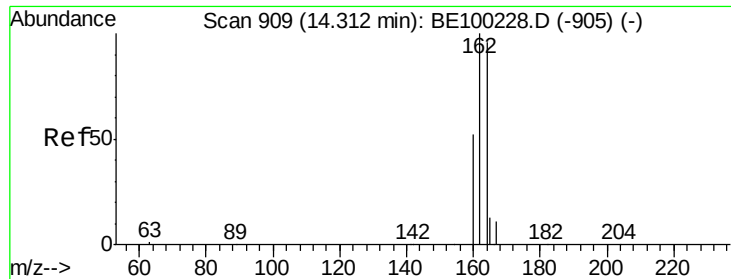
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#12
2-Methylnaphthalene
Concen: 0.667 ng
RT: 12.09 min Scan# 755
Delta R.T. -0.03 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Tgt Ion:142 Resp: 3249
Ion Ratio Lower Upper
142 100
141 92.2 72.4 108.6
115 52.1 40.4 60.6





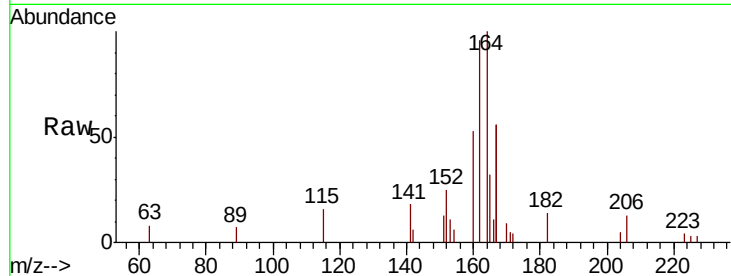
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.30 min Scan# 908
Delta R.T. -0.01 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW097-062519

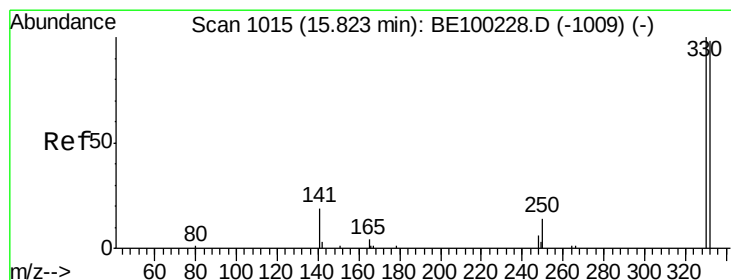
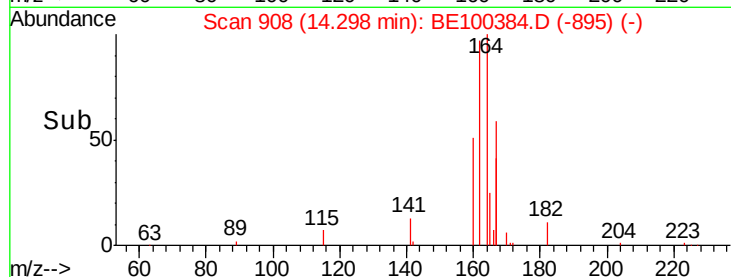
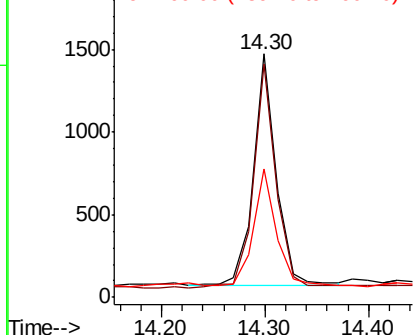
Tot Ion	Ratio	Lower	Upper
164	100		
162	95.8	83.4	125.0
160	52.9	45.0	67.6

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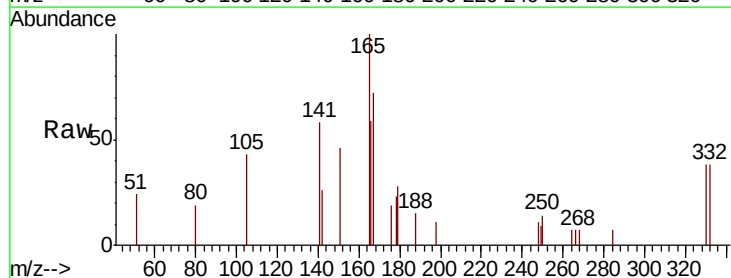


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

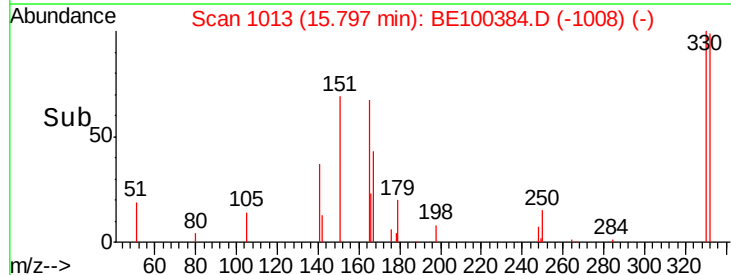
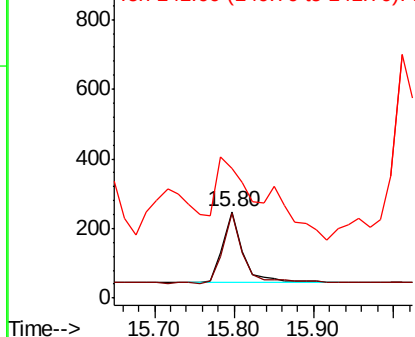


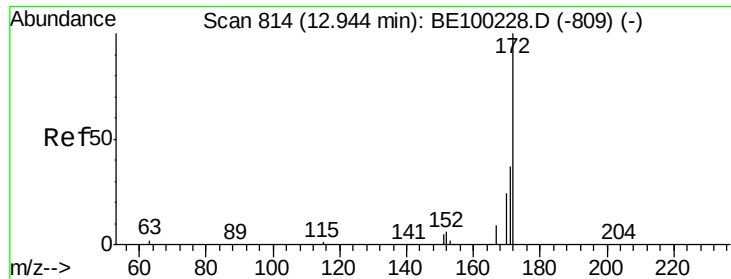
#14
2,4,6-Tribromophenol
Concen: 0.239 ng
RT: 15.80 min Scan# 1013
Delta R.T. -0.03 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.0	77.0	115.4
141	107.5	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





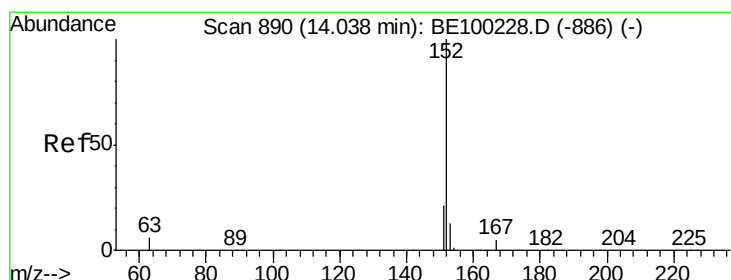
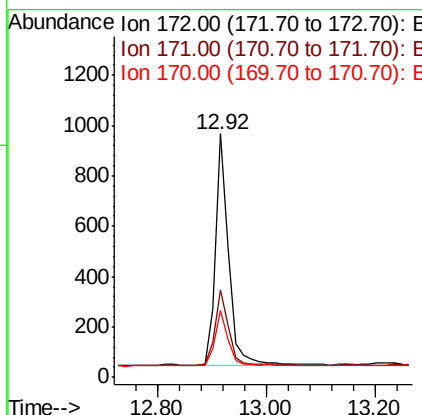
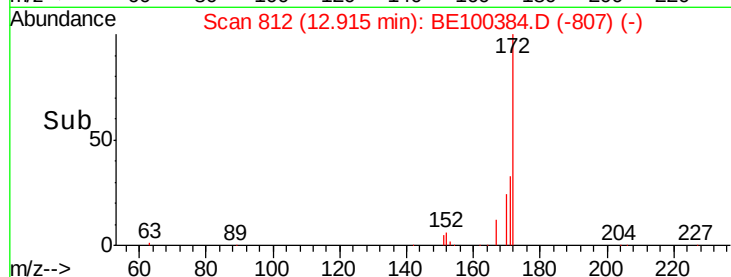
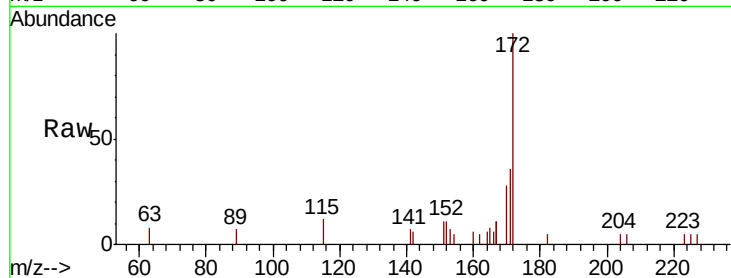
#15
2-Fluorobiphenyl
Concen: 0.190 ng
RT: 12.92 min Scan# 812
Delta R.T. -0.03 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW097-062519

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	31.9	47.9
170	27.6	22.2	33.2

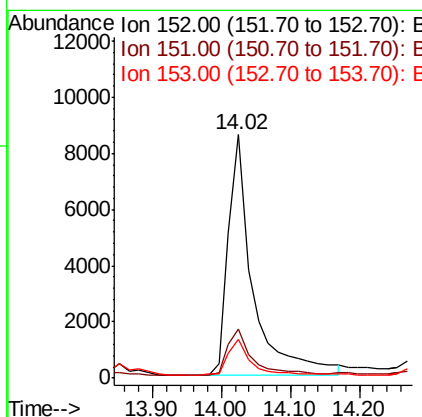
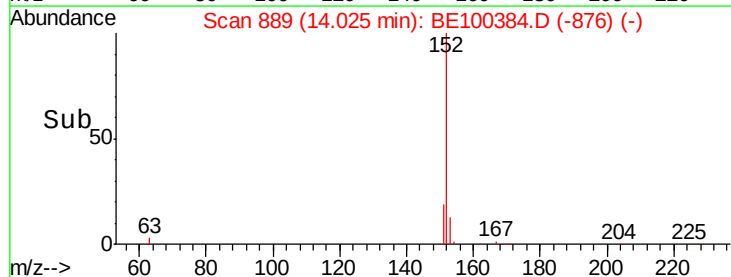
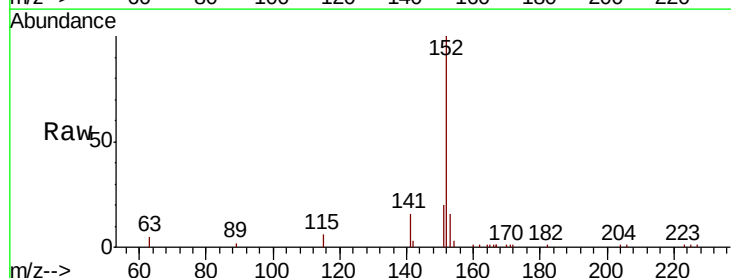
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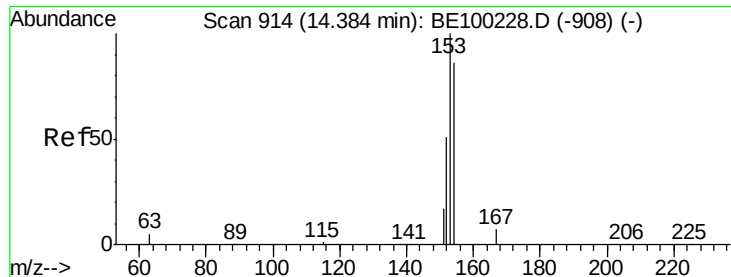
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#16
Acenaphthylene
Concen: 2.079 ng
RT: 14.02 min Scan# 889
Delta R.T. -0.01 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.6	25.0
153	14.0	10.5	15.7





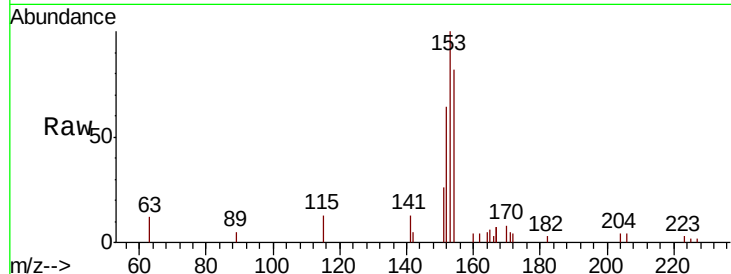
#17
Acenaphthene
Concen: 0.499 ng
RT: 14.36 min Scan# 912
Delta R.T. -0.03 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW097-062519

Tot Ion	Ratio	Lower	Upper
154	100		
153	120.1	93.4	140.2
152	67.4	49.4	74.2

Manual Integrations
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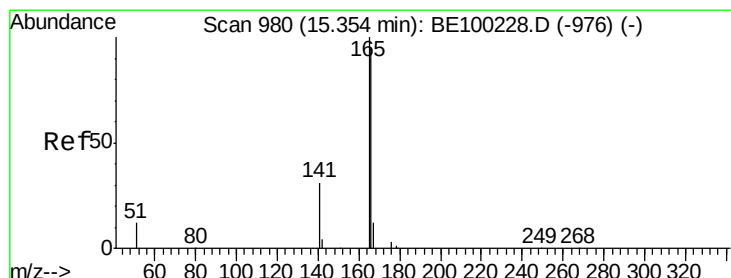
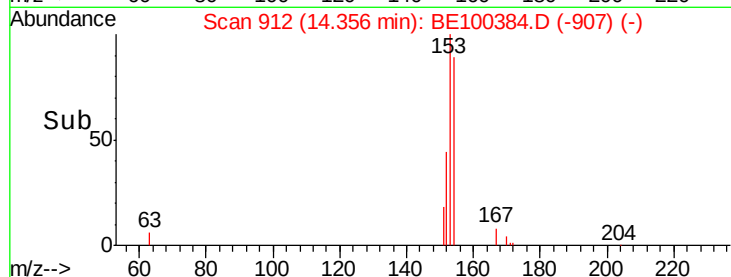
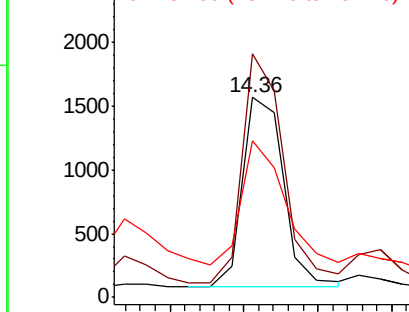


Abundance

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



#18
Fluorene
Concen: 1.131 ng
RT: 15.34 min Scan# 979
Delta R.T. -0.01 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

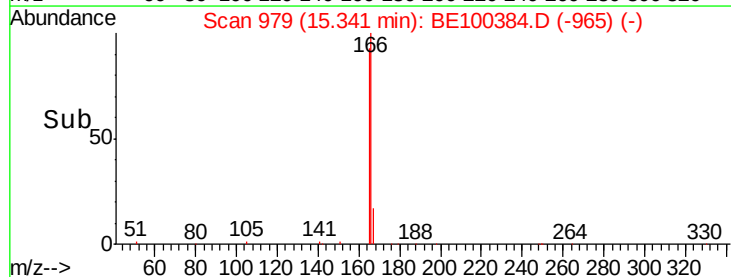
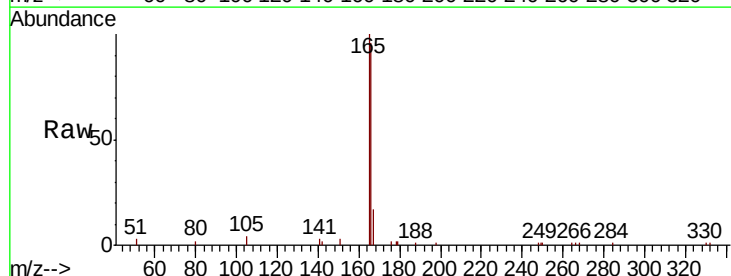
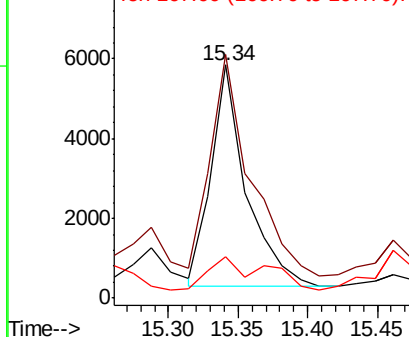
Tgt Ion	Ratio	Lower	Upper
166	100		
165	112.7	81.1	121.7
167	24.8	10.7	16.1

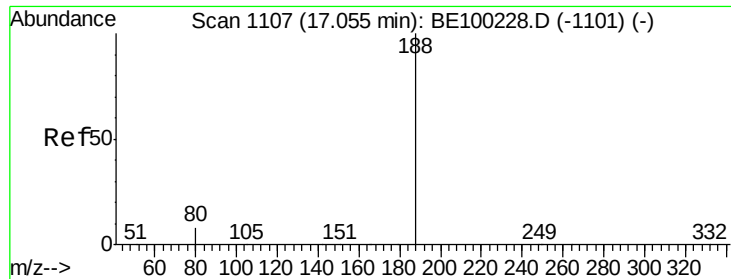
Abundance

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





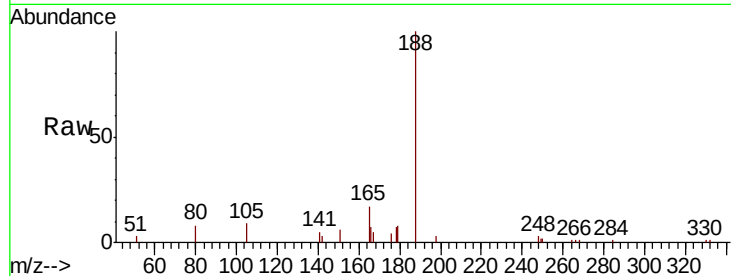
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.04 min Scan# 1106
Delta R.T. -0.01 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW097-062519

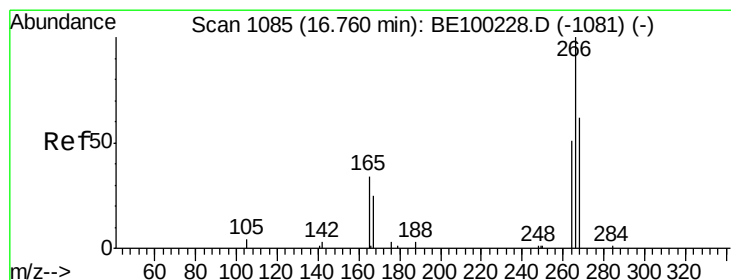
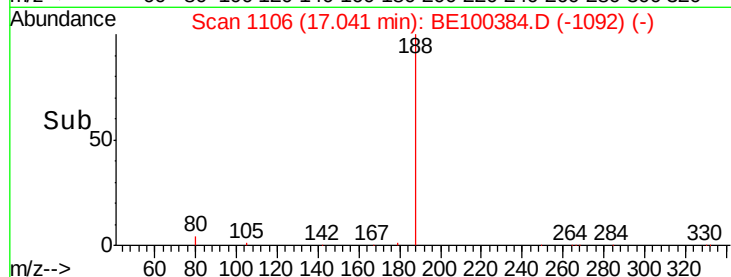
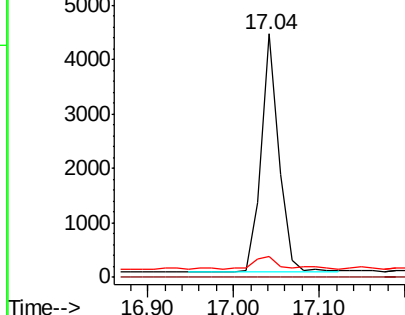
Tot Ion	Ratio	Resp	Lower	Upper
188	100	6279		
94	0.0	0.0	0.0	0.0
80	8.3	7.6	11.4	

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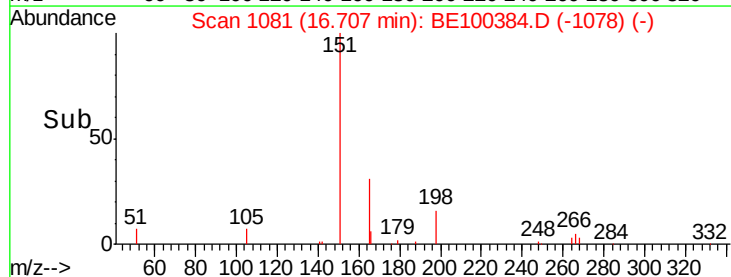
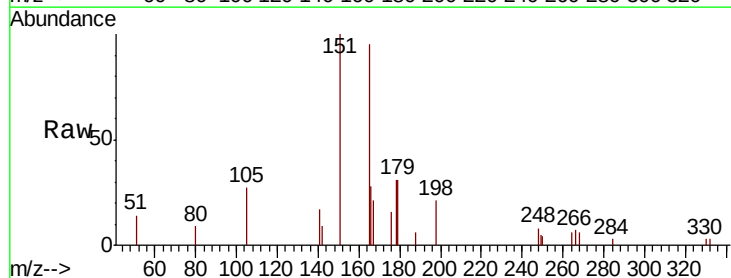
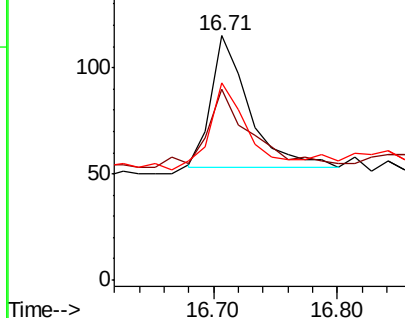
Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE1
Ion 80.00 (79.70 to 80.70): BE1

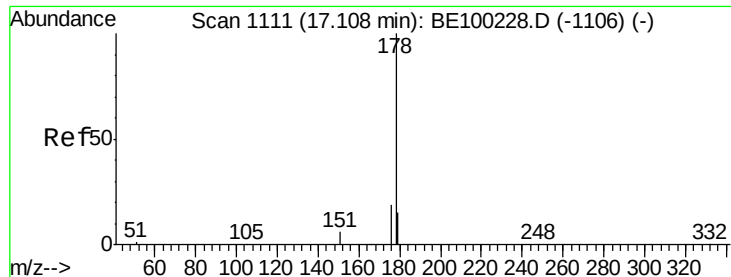


#22
Pentachlorophenol
Concen: 0.106 ng
RT: 16.71 min Scan# 1081
Delta R.T. -0.05 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	133		
264	78.3	56.2	84.2	
268	80.9	61.8	92.6	

Abundance Ion 266.00 (265.70 to 266.70): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 16.965 ng

RT: 17.08 min Scan# 1109

Delta R.T. -0.03 min

Lab File: BE100384.D

Acq: 5 Jul 2019 16:47

Instrument :

BNA_E

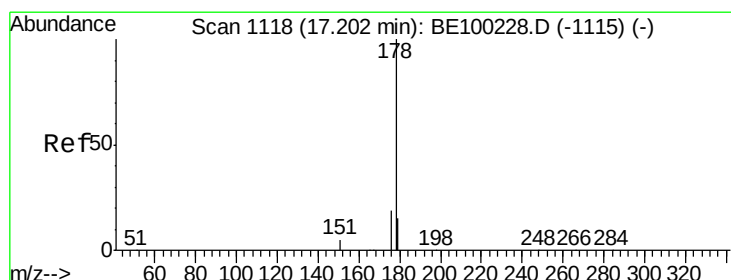
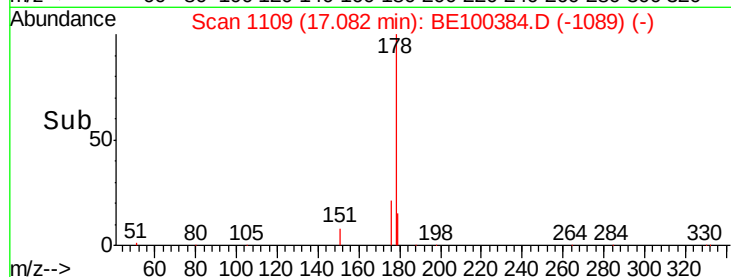
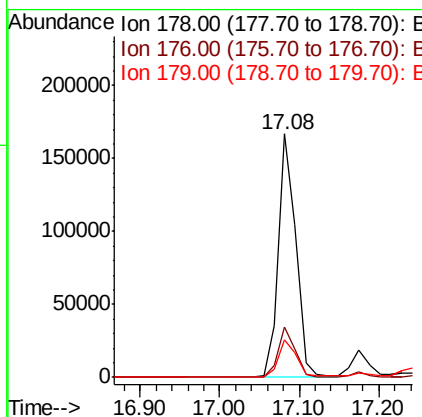
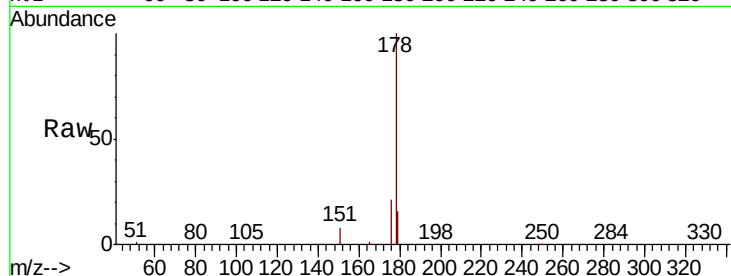
ClientSampleId :

EXT-016-SW097-062519

Tot Ion:	178	Resp:	258186
Ion Ratio	Lower	Upper	
178	100		
176	20.2	15.9	23.9
179	15.6	12.2	18.2

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#24

Anthracene

Concen: 1.771 ng

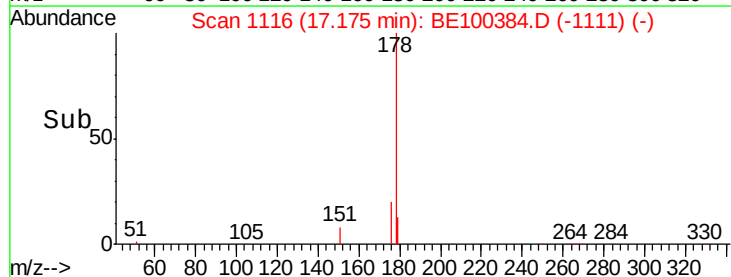
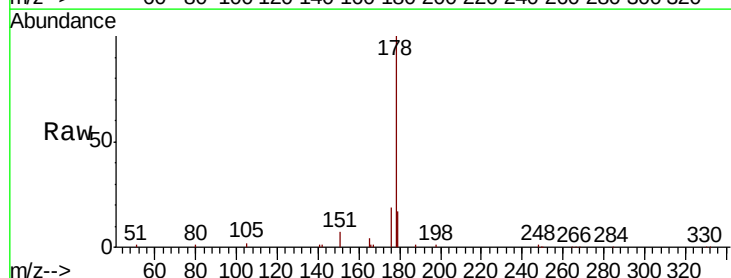
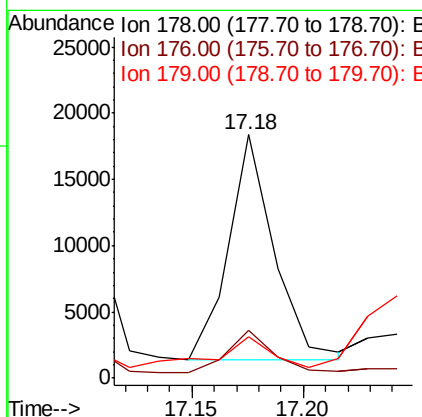
RT: 17.18 min Scan# 1116

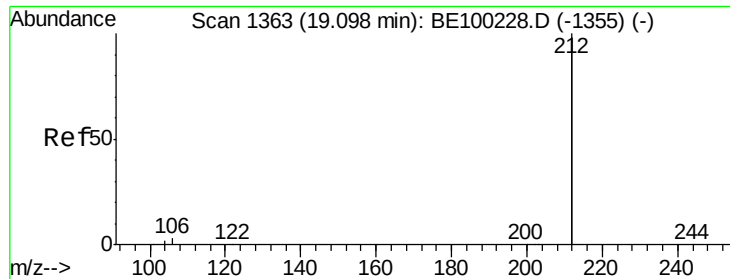
Delta R.T. -0.03 min

Lab File: BE100384.D

Acq: 5 Jul 2019 16:47

Tgt Ion:	178	Resp:	24265
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.3	22.9
179	14.0	12.2	18.2





#25

Fluoranthene-d10

Concen: 0.174 ng

RT: 19.09 min Scan# 1361

Delta R.T. -0.01 min

Lab File: BE100384.D

Acq: 5 Jul 2019 16:47

Instrument :

BNA_E

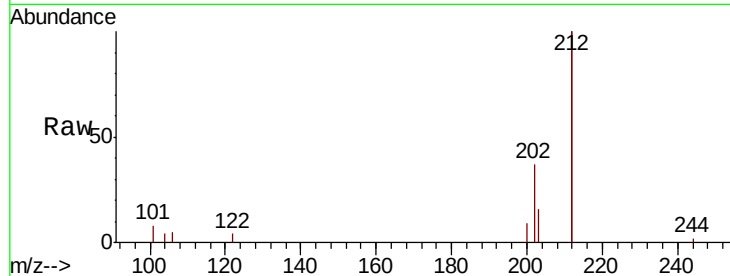
ClientSampleId :

EXT-016-SW097-062519

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

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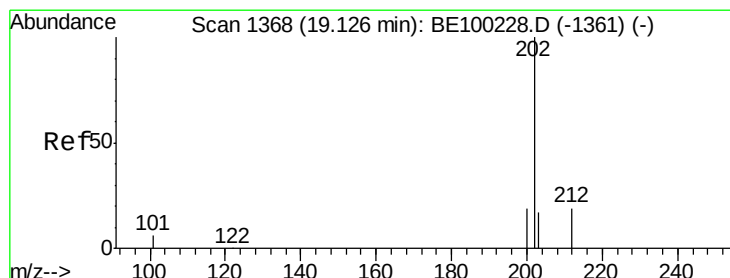
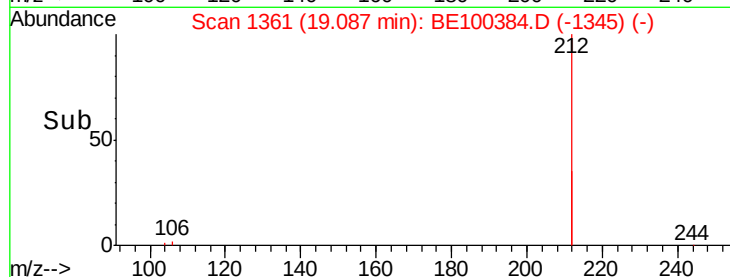
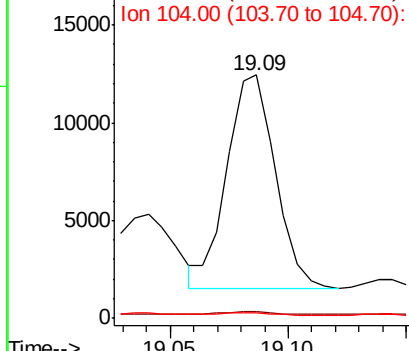


Abundance

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



#26

Fluoranthene

Concen: 20.013 ng

RT: 19.12 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BE100384.D

Acq: 5 Jul 2019 16:47

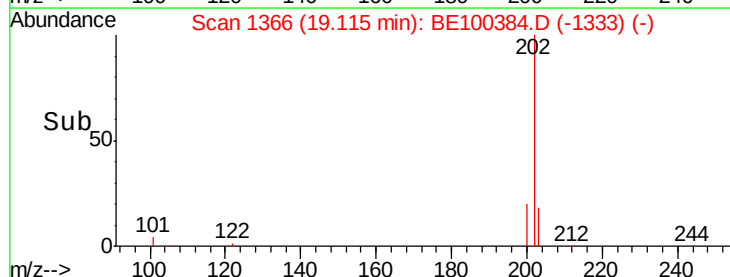
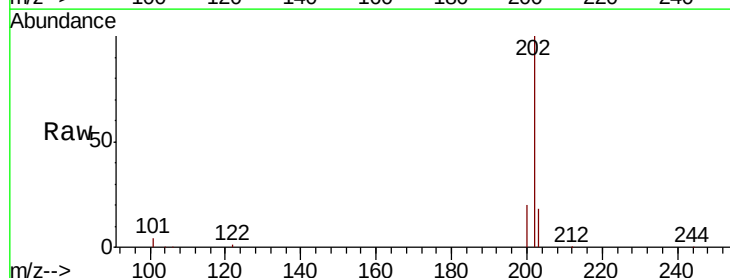
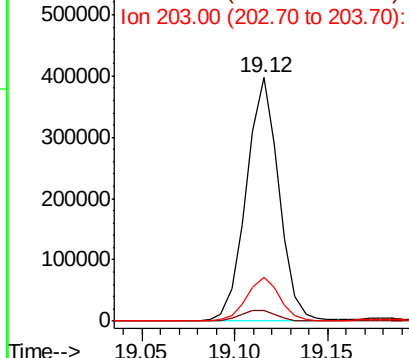
Tgt Ion	Ratio	Lower	Upper
202	100		
101	4.8	4.6	7.0
203	18.1	13.7	20.5

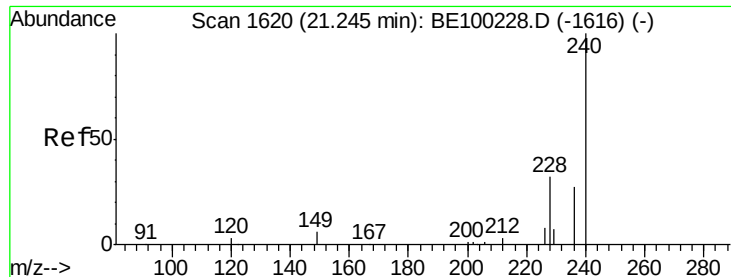
Abundance

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





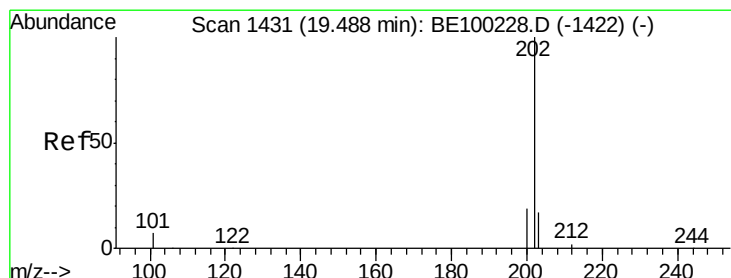
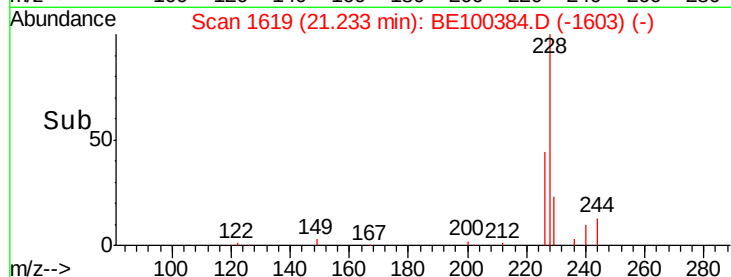
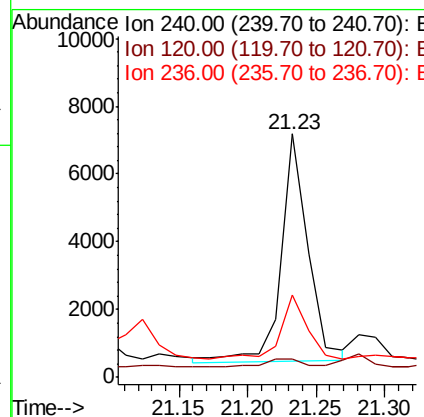
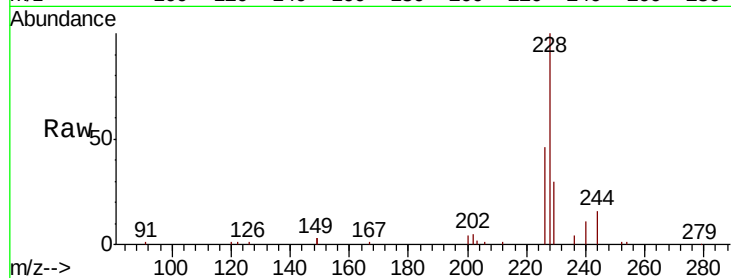
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.23 min Scan# 1619
Delta R.T. -0.01 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW097-062519

Tot Ion	Ratio	Lower	Upper
240	100		
120	7.3	3.3	4.9#
236	34.1	22.6	34.0#

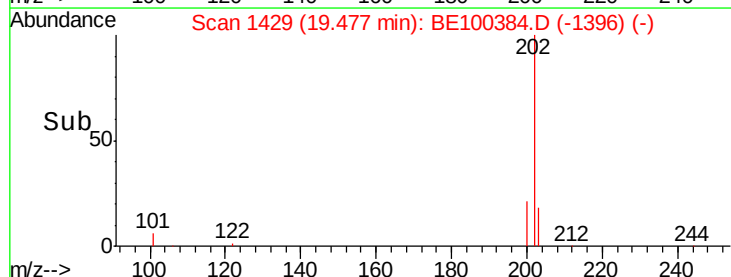
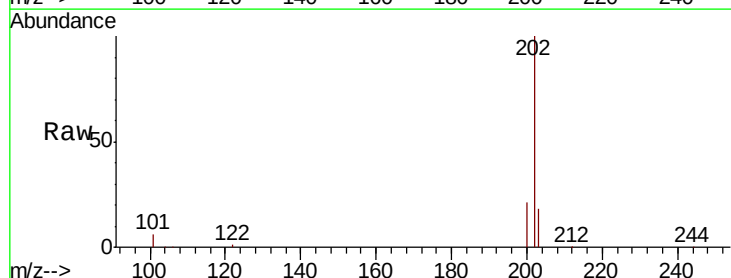
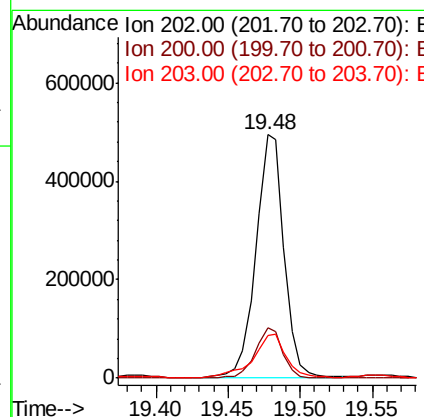
Manual Integrations
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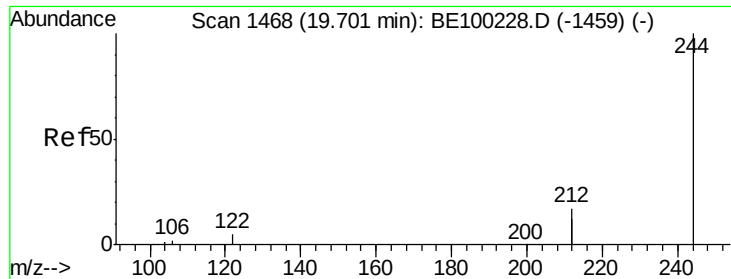
mohammad
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#28
Pyrene
Concen: 27.984 ng
RT: 19.48 min Scan# 1429
Delta R.T. -0.01 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.1	15.6	23.4
203	21.0	14.0	21.0#





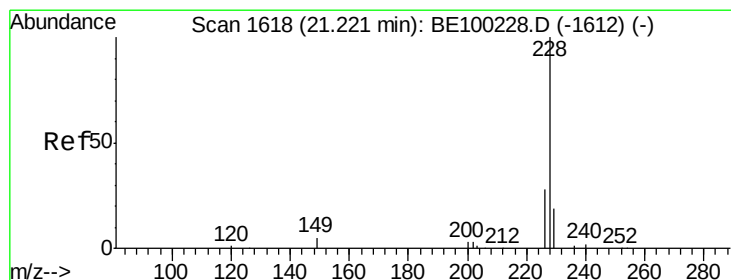
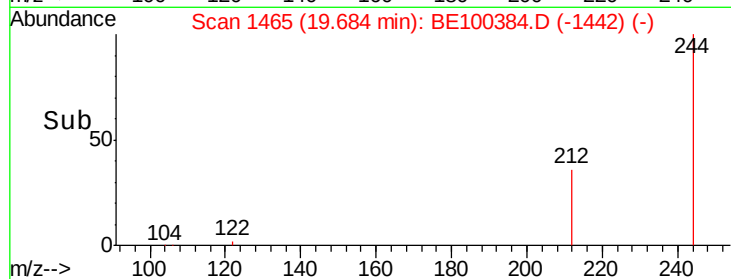
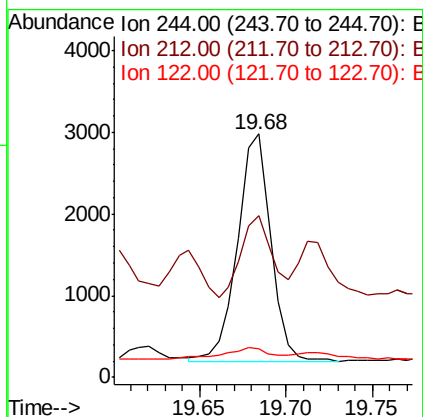
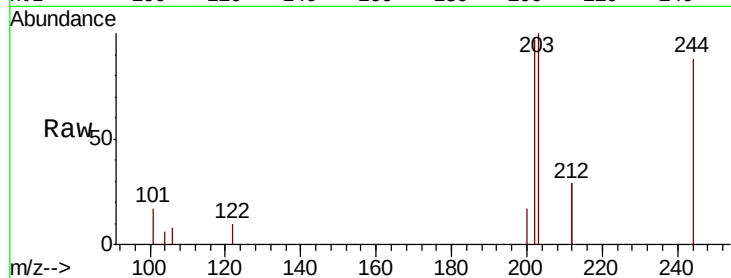
#29
 Terphenyl-d14
 Concen: 0.199 ng
 RT: 19.68 min Scan# 1465
 Delta R.T. -0.02 min
 Lab File: BE100384.D
 Acq: 5 Jul 2019 16:47

Instrument :
 BNA_E
 ClientSampleId :
 EXT-016-SW097-062519

Tot Ion	Ratio	Lower	Upper
244	100		
212	66.2	27.3	40.9#
122	11.6	4.7	7.1#

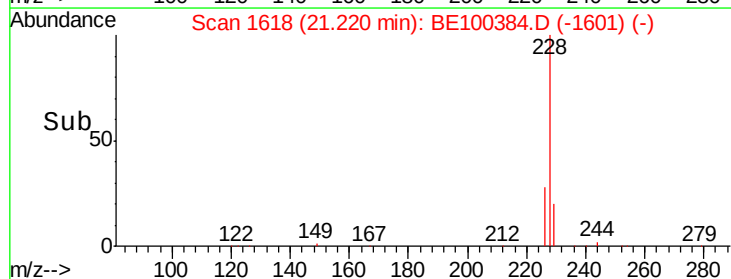
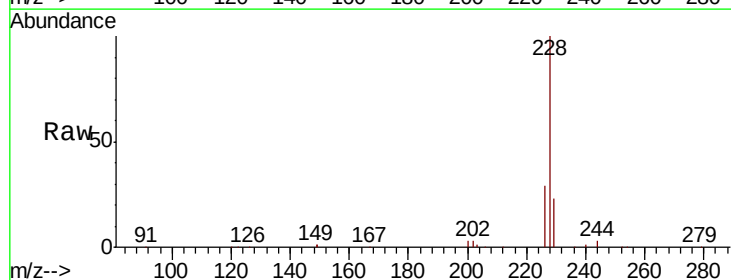
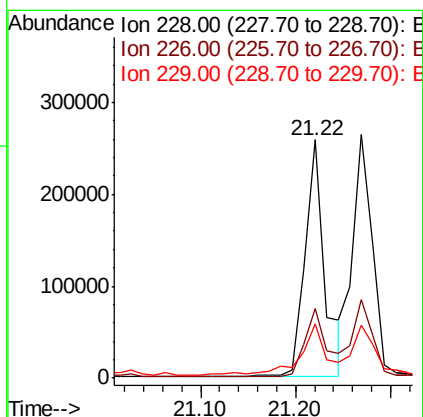
Manual Integrations
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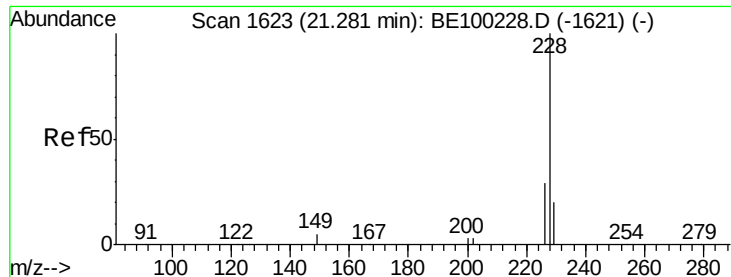
mohammad
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#30
 Benzo(a)anthracene
 Concen: 12.541 ng
 RT: 21.22 min Scan# 1618
 Delta R.T. -0.00 min
 Lab File: BE100384.D
 Acq: 5 Jul 2019 16:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.2	34.8
229	22.8	15.7	23.5





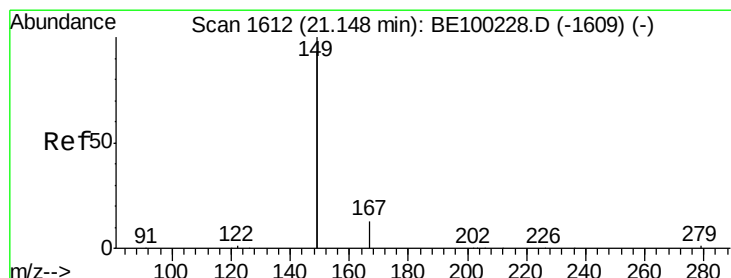
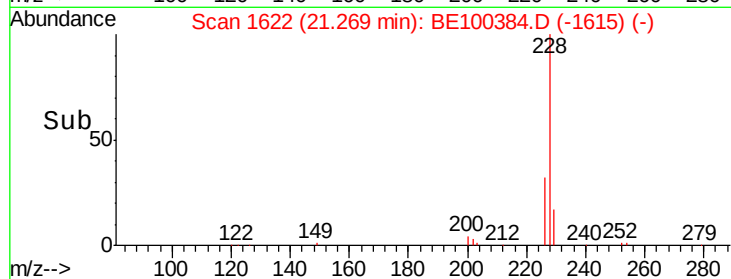
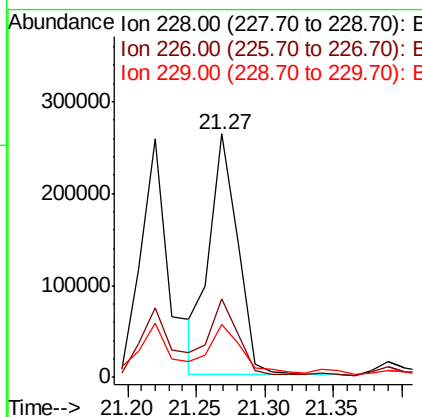
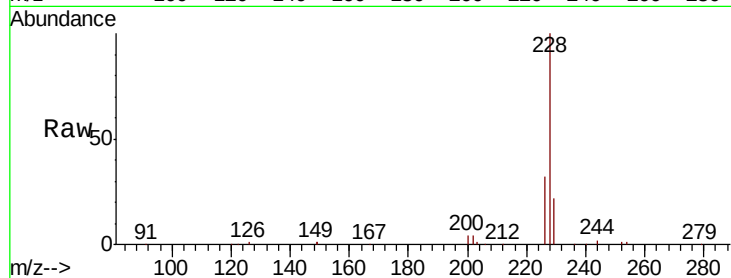
#31
 Chrysene
 Concen: 12.469 ng
 RT: 21.27 min Scan# 1622
 Delta R.T. -0.01 min
 Lab File: BE100384.D
 Acq: 5 Jul 2019 16:47

Instrument :
 BNA_E
 ClientSampleId :
 EXT-016-SW097-062519

Tot Ion:	228	Resp:	373945
Ion Ratio	Lower	Upper	
228	100		
226	32.0	23.9	35.9
229	21.7	16.5	24.7

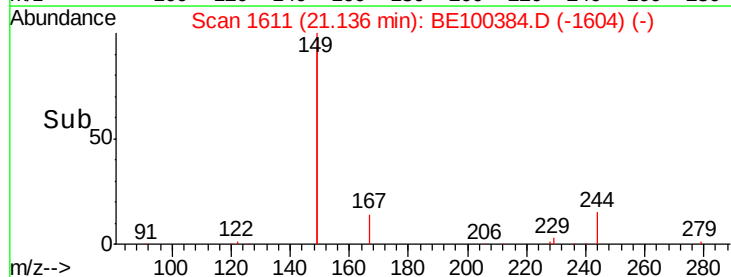
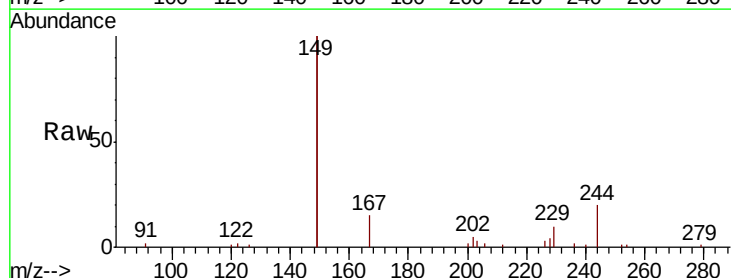
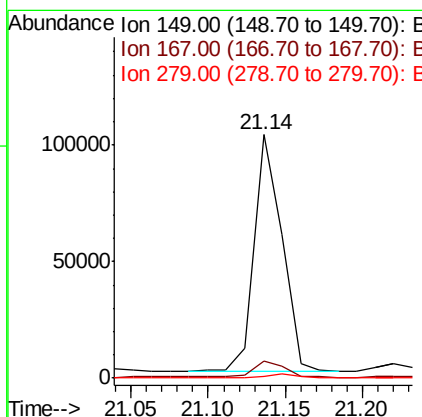
Manual Integrations
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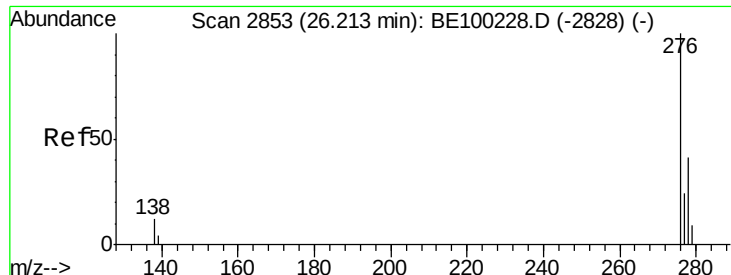
mohammad
 7/8/2019 2:13:53 PM



#32
 Bis(2-ethylhexyl)phthalate
 Concen: 2.949 ng
 RT: 21.14 min Scan# 1611
 Delta R.T. -0.01 min
 Lab File: BE100384.D
 Acq: 5 Jul 2019 16:47

Tgt Ion:	149	Resp:	126926
Ion Ratio	Lower	Upper	
149	100		
167	7.5	5.8	8.8
279	1.5	1.1	1.7





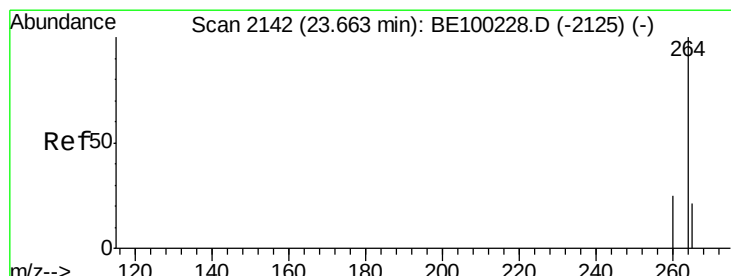
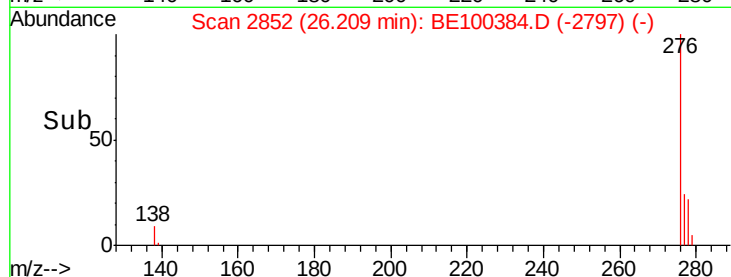
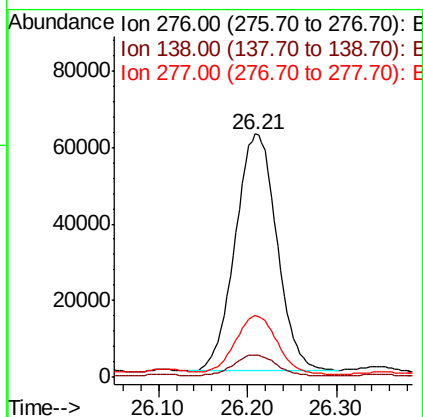
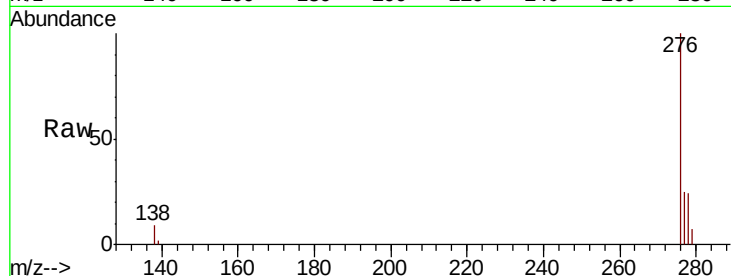
#33
Indeno(1,2,3-cd)pyrene
Concen: 5.059 ng
RT: 26.21 min Scan# 2852
Delta R.T. -0.00 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW097-062519

Tot Ion	Ratio	Resp	Lower	Upper
276	100	200661		
138	8.8		9.4	14.0#
277	24.6		19.2	28.8

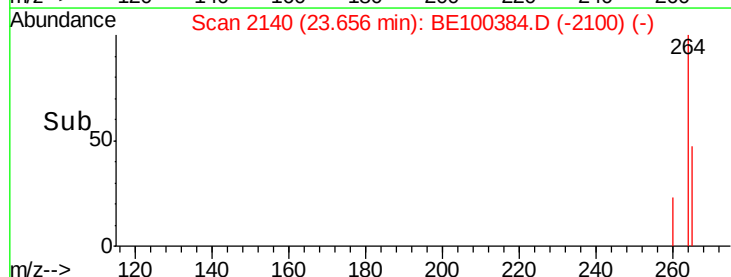
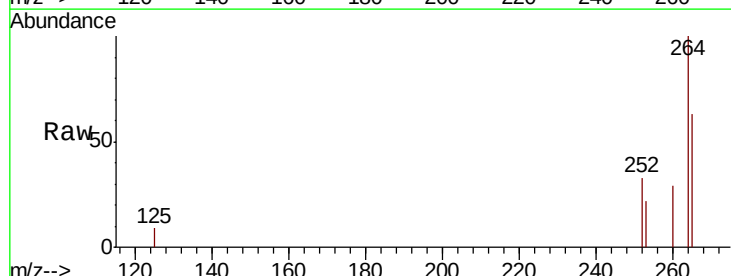
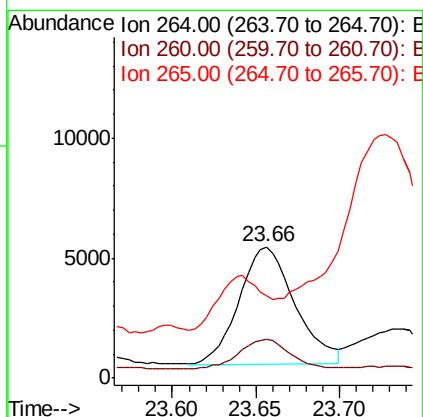
Manual Integrations
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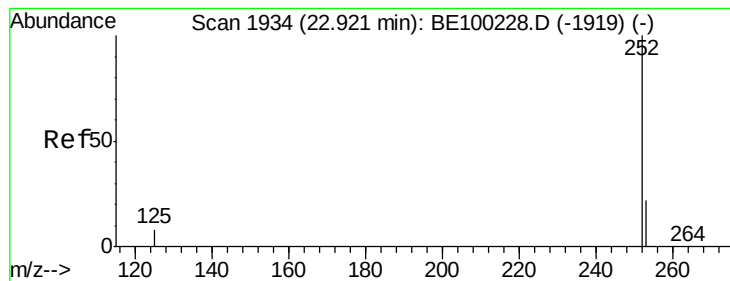
mohammad
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#34
Perylene-d12
Concen: 0.400 ng
RT: 23.66 min Scan# 2140
Delta R.T. -0.01 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	11424		
260	29.3		20.8	31.2
265	62.5		21.8	32.6#





#35

Benzo(b)fluoranthene

Concen: 12.181 ng m

RT: 22.92 min Scan# 1933

Delta R.T. -0.00 min

Lab File: BE100384.D

Acq: 5 Jul 2019 16:47

Instrument :

BNA_E

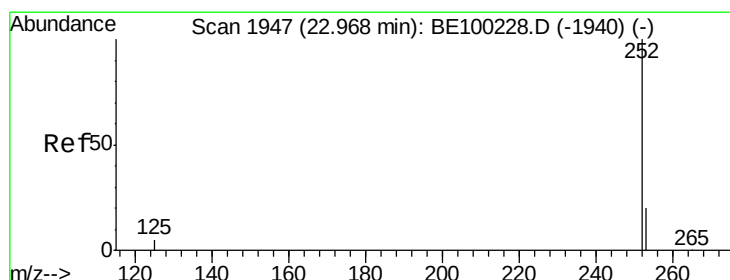
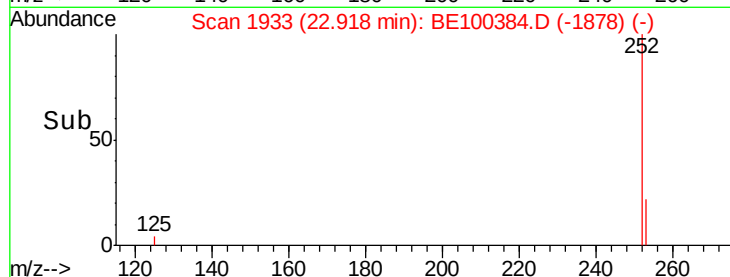
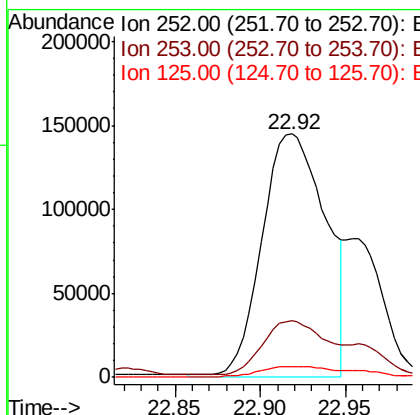
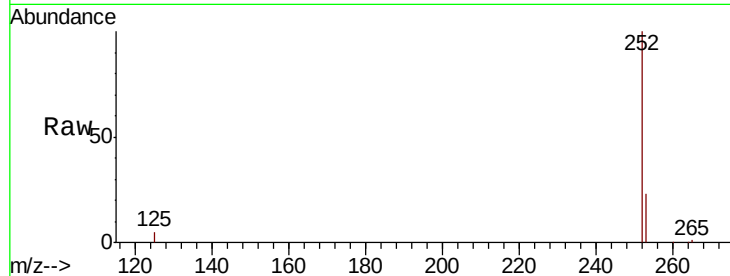
ClientSampleId :

EXT-016-SW097-062519

Tot Ion:	252	Resp:	377268
Ion Ratio	Lower	Upper	
252	100		
253	23.2	19.2	28.8
125	4.5	7.4	11.0#

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#36

Benzo(k)fluoranthene

Concen: 3.812 ng m

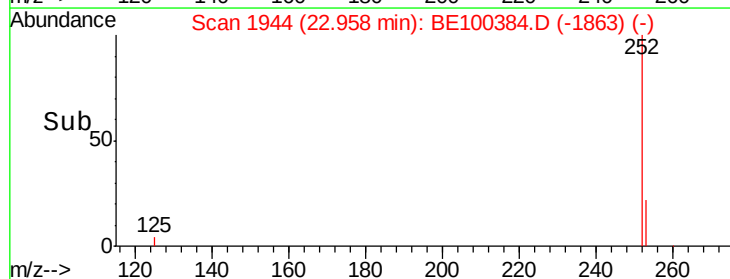
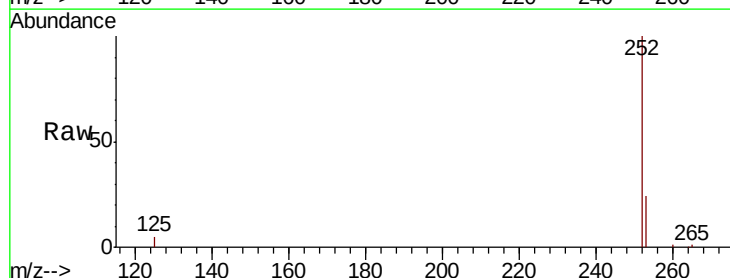
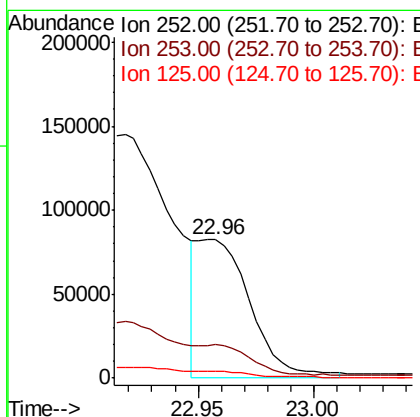
RT: 22.96 min Scan# 1944

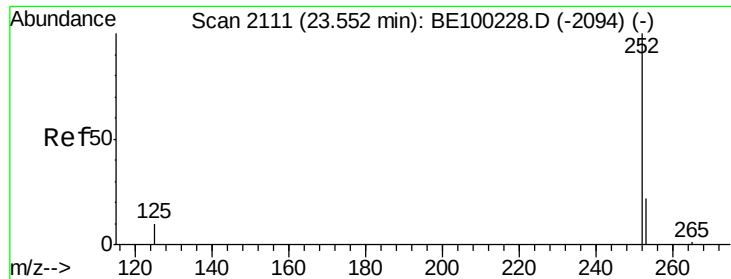
Delta R.T. -0.01 min

Lab File: BE100384.D

Acq: 5 Jul 2019 16:47

Tgt Ion:	252	Resp:	131810
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.9	26.9
125	4.9	5.0	7.4#





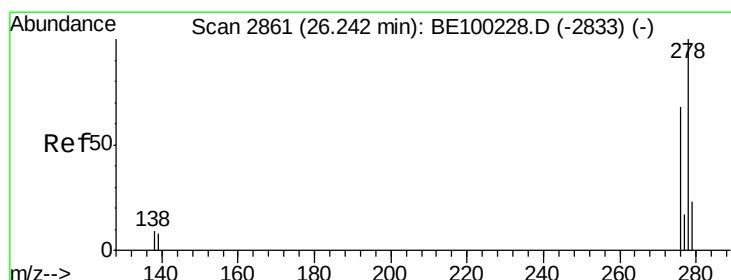
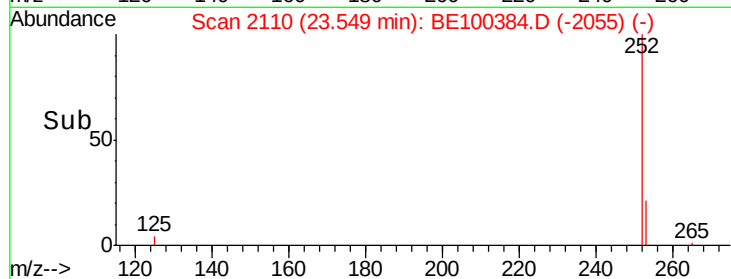
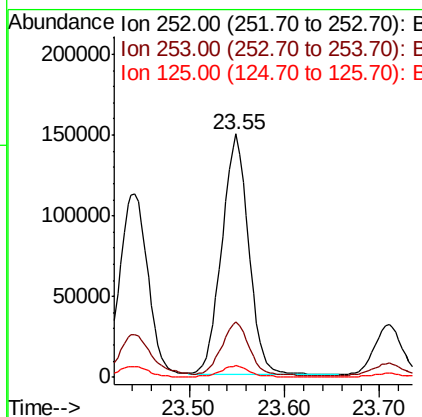
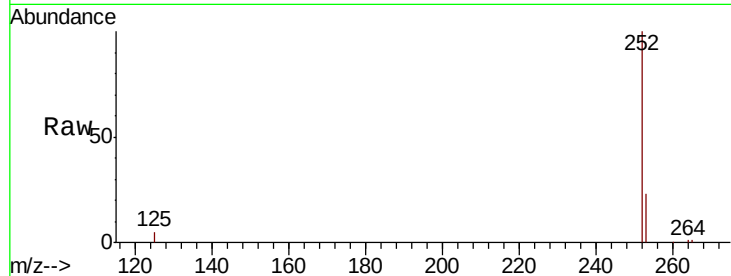
#37
Benzo(a)pyrene
Concen: 9.353 ng
RT: 23.55 min Scan# 2110
Delta R.T. -0.00 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Instrument :
BNA_E
ClientSampleId :
EXT-016-SW097-062519

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.6	29.4
125	4.7	9.0	13.6

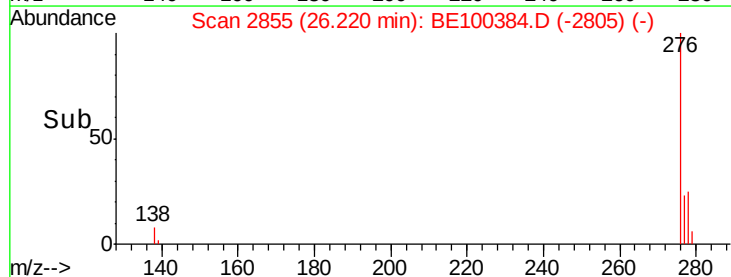
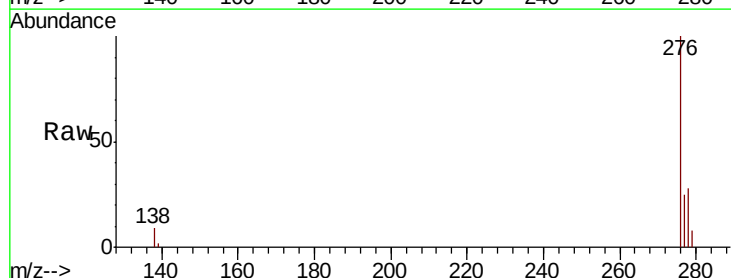
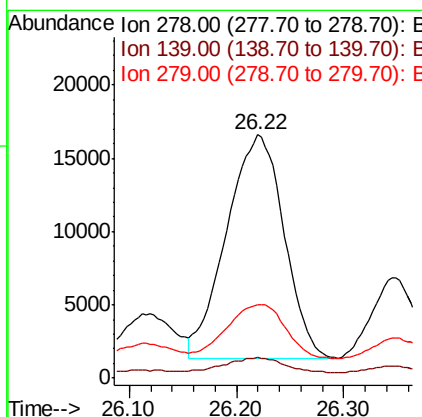
Manual Integrations
APPROVED

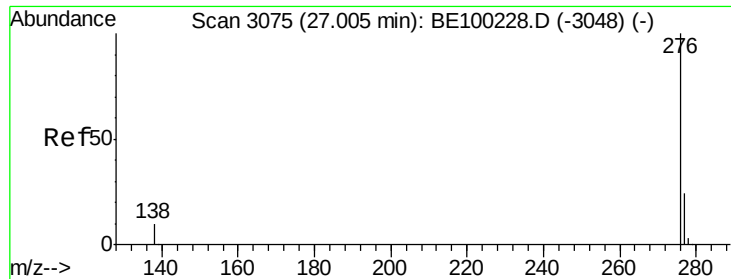
mohammad
7/8/2019 2:13:53 PM



#38
Dibenzo(a,h)anthracene
Concen: 1.737 ng
RT: 26.22 min Scan# 2855
Delta R.T. -0.02 min
Lab File: BE100384.D
Acq: 5 Jul 2019 16:47

Tgt Ion	Ratio	Lower	Upper
278	100		
139	8.4	8.2	12.2
279	30.2	20.3	30.5





#39
 Benzo(a,h,i)perylene
 Concen: 6.997 ng
 RT: 27.00 min Scan# 3074
 Delta R.T. -0.00 min
 Lab File: BE100384.D
 Acq: 5 Jul 2019 16:47

Instrument :
 BNA_E
 ClientSampleId :
 EXT-016-SW097-062519

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	20.2	30.2
138	9.1	9.0	13.6

Manual Integrations
 APPROVED

mohammad
 7/8/2019 2:13:53 PM

