

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050619\
 Data File : BE099553.D
 Acq On : 6 May 2019 15:27
 Operator : JU/SJ
 Sample : K2587-20DL 20X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319DL

Manual Integrations
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Quant Time: May 07 08:27:57 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 07 08:07:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	1566	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	5661	0.40	ng	0.00
13) Acenaphthene-d10	14.50	164	4068	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	12201	0.40	ng	0.00
27) Chrysene-d12	21.43	240	16948	0.40	ng	-0.01
34) Perylene-d12	23.99	264	19719	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	111	0.03	ng	0.00
5) Phenol-d6	6.99	99	183	0.03	ng	0.00
8) Nitrobenzene-d5	8.99	82	129	0.02	ng	0.01
11) 2-Methylnaphthalene-d10	12.24	152	227	0.02	ng	0.00
14) 2,4,6-Tribromophenol	15.98	330	62	0.02	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	347	0.02	ng	0.00
25) Fluoranthene-d10	19.28	212	3215	0.02	ng	0.00
29) Terphenyl-d14	19.87	244	1106	0.04	ng	0.00

Target Compounds						Qvalue
9) Naphthalene	10.68	128	3200	0.052	ng	# 93
12) 2-Methylnaphthalene	12.31	142	467	0.044	ng	# 85
16) Acenaphthylene	14.21	152	10758	0.540	ng	99
17) Acenaphthene	14.56	154	4987	0.439	ng	99
18) Fluorene	15.54	166	11381	0.679	ng	97
23) Phenanthrene	17.28	178	262065	8.324	ng	100
24) Anthracene	17.38	178	52110	1.737	ng	98
26) Fluoranthene	19.31	202	786404	16.676	ng	99
28) Pyrene	19.67	202	664896	15.050	ng	# 95
30) Benzo(a)anthracene	21.41	228	393603	7.289	ng	98
31) Chrysene	21.46	228	328746	6.221	ng	97
33) Indeno(1,2,3-cd)pyrene	26.69	276	208218	3.334	ng	# 97
35) Benzo(b)fluoranthene	23.20	252	423398	7.446	ng	# 98
36) Benzo(k)fluoranthene	23.24	252	163404m	2.980	ng	
37) Benzo(a)pyrene	23.87	252	305352m	5.680	ng	
38) Dibenzo(a,h)anthracene	26.70	278	47425	0.862	ng	97
39) Benzo(a,h,i)perylene	27.53	276	189302	3.436	ng	99

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

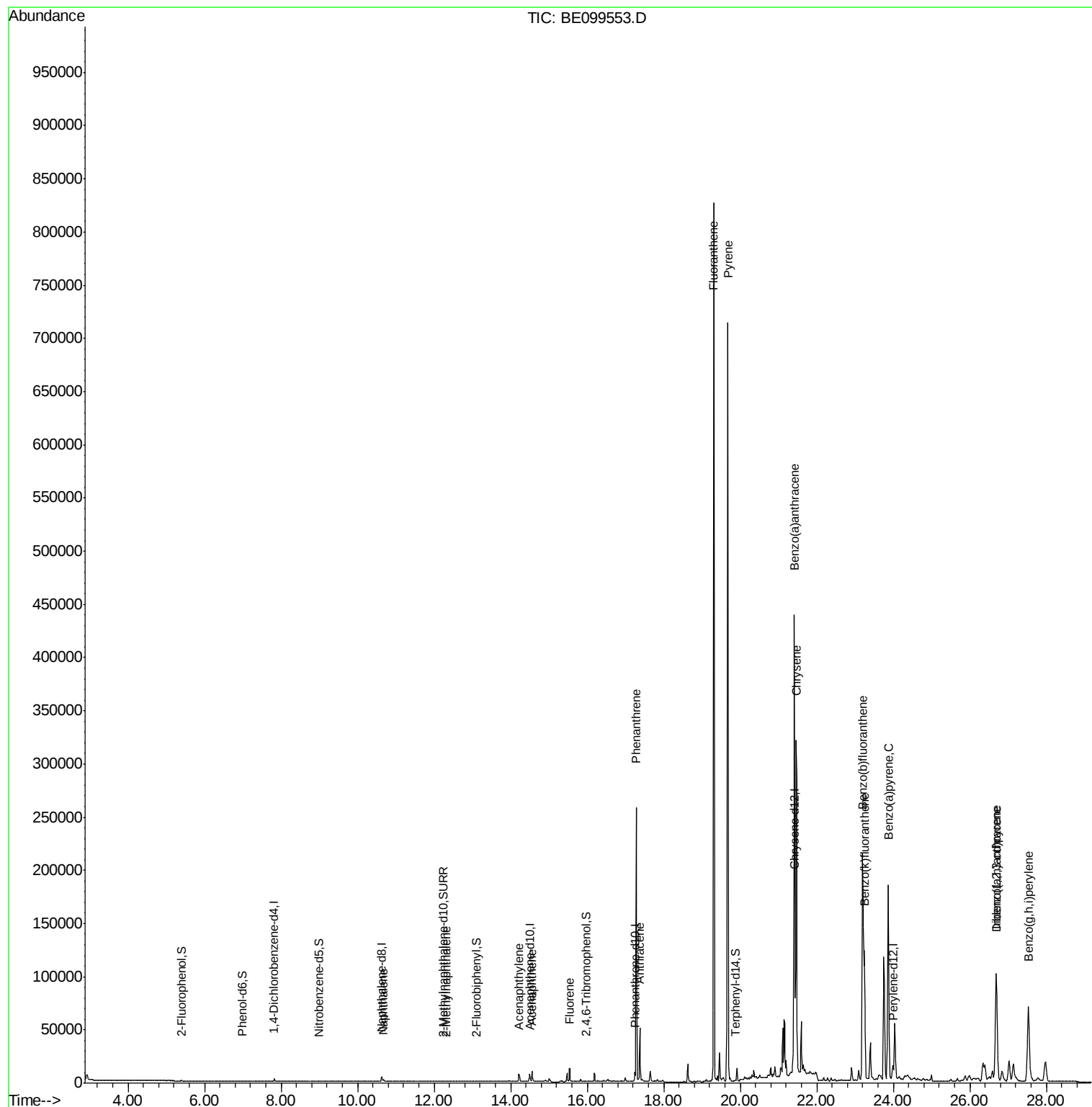
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050619\
Data File : BE099553.D
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Misc :
ALS Vial : 7 Sample Multiplier: 1

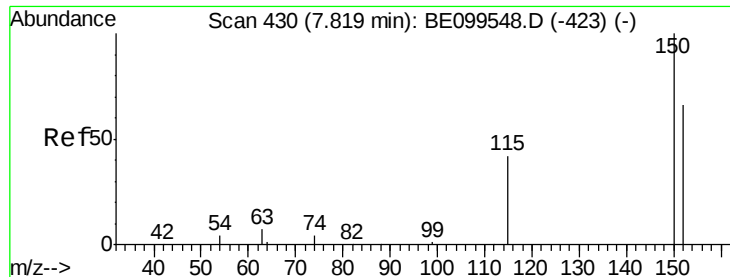
Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

Quant Time: May 07 08:27:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 07 08:07:29 2019
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#1

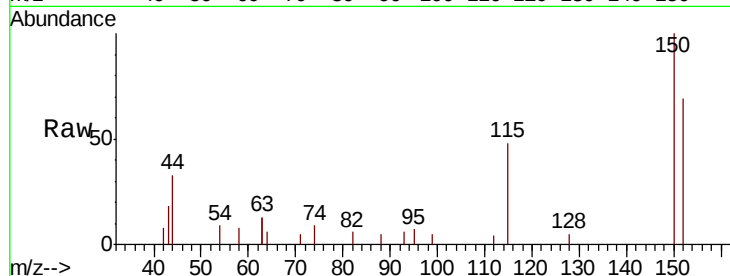
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.82 min Scan# 430
Delta R.T. -0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	145.2	104.8	157.2
115	69.2	46.6	69.8

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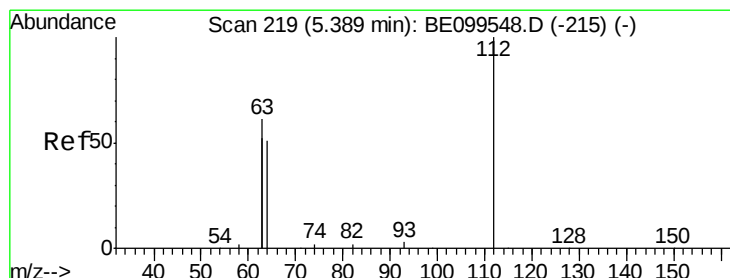
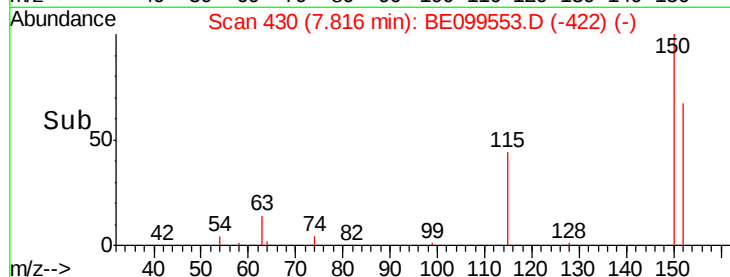
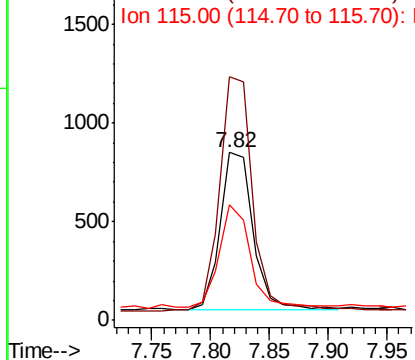


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

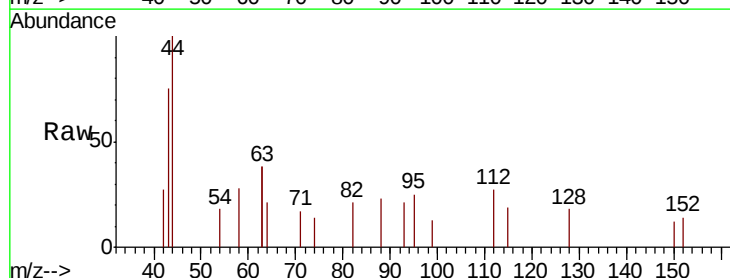
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.026 ng
RT: 5.39 min Scan# 219
Delta R.T. -0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.4	47.4	71.0
63	113.5	104.3	156.5

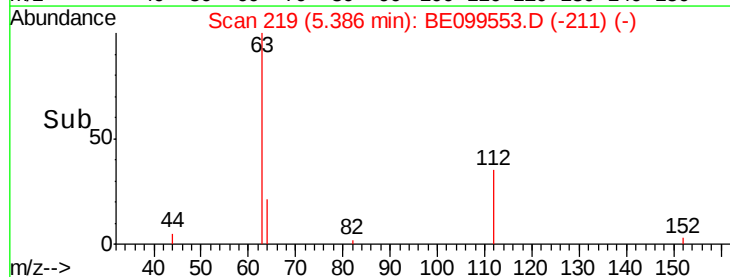
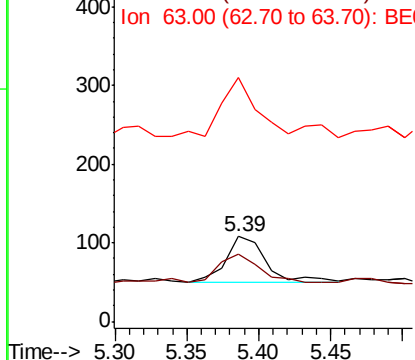


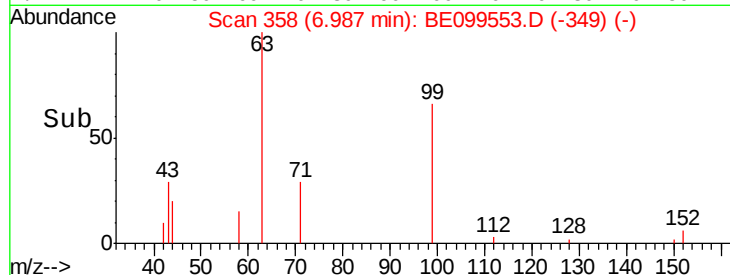
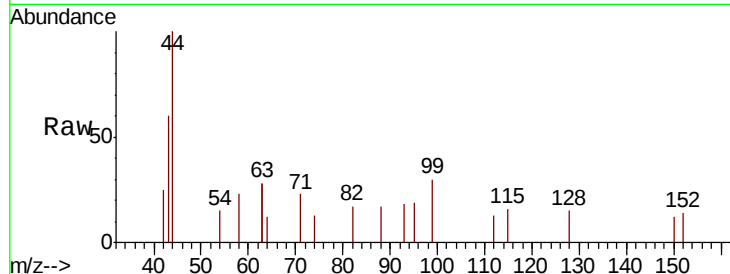
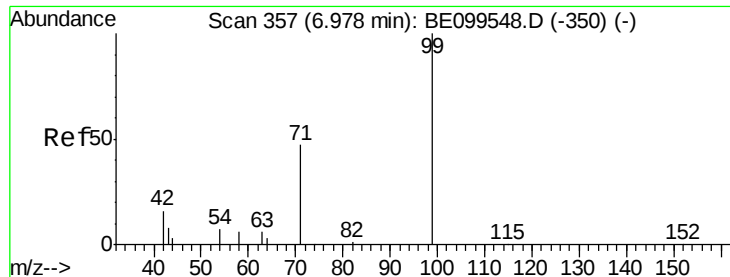
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





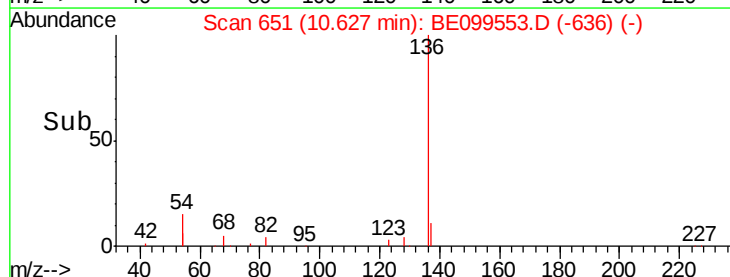
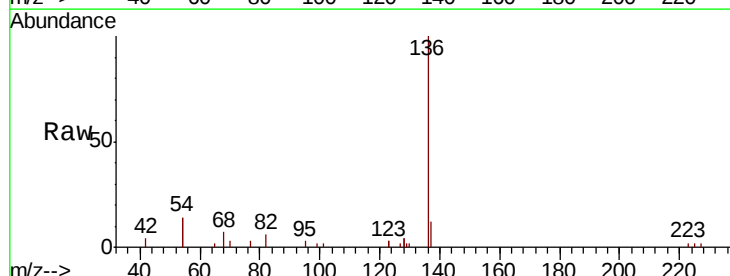
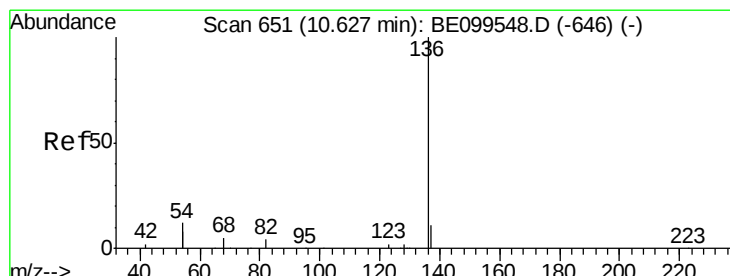
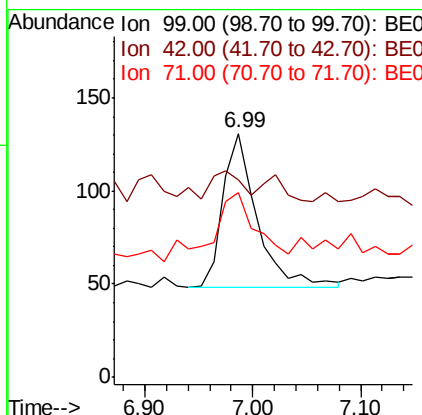
#5
Phenol-d6
Concen: 0.032 ng
RT: 6.99 min Scan# 358
Delta R.T. 0.01 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Tot Ion	Ratio	Lower	Upper
99	100		
42	15.8	14.9	22.3
71	41.5	33.0	49.6

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

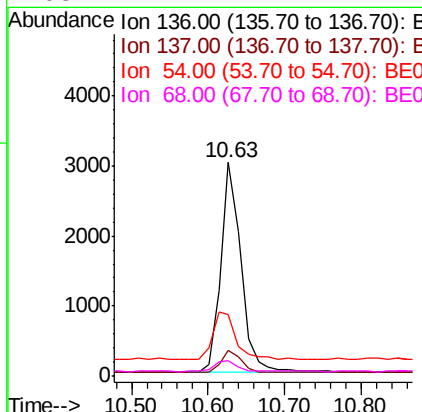
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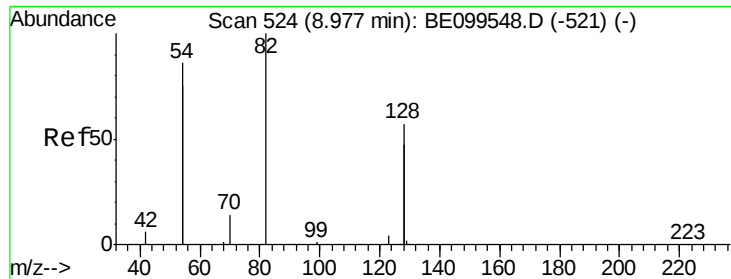
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#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.63 min Scan# 651
Delta R.T. -0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

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





#8

Nitrobenzene-d5

Concen: 0.024 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.01 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Instrument :

BNA_E

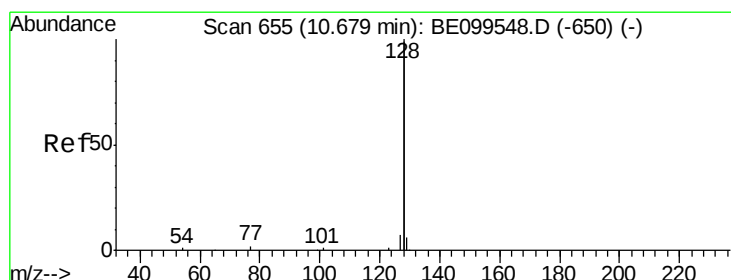
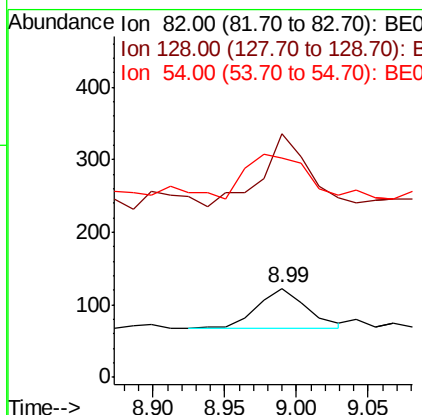
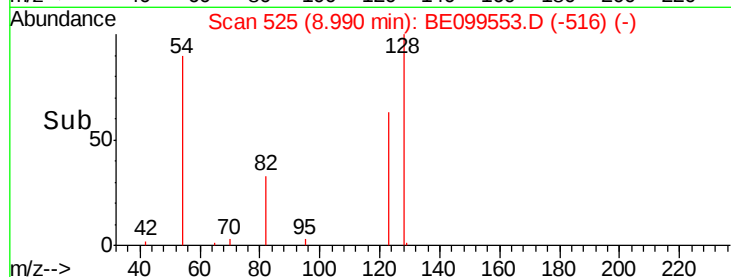
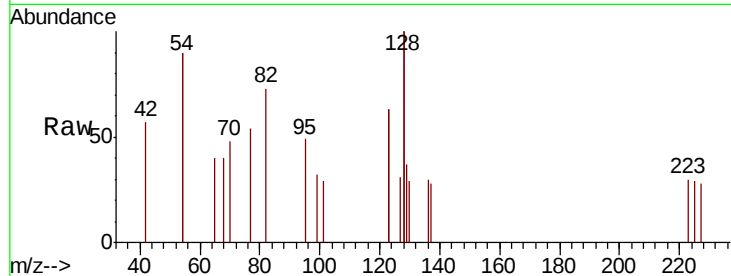
ClientSampleId :

EXT-004-SW068-042319DL

Tot Ion:	82	Resp:	129
Ion Ratio	Lower	Upper	
82	100		
128	273.2	107.0	160.4#
54	245.5	113.1	169.7#

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#9

Naphthalene

Concen: 0.052 ng

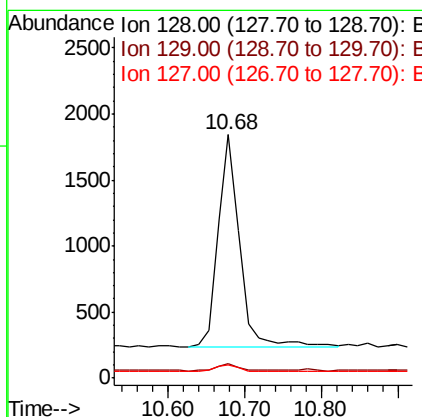
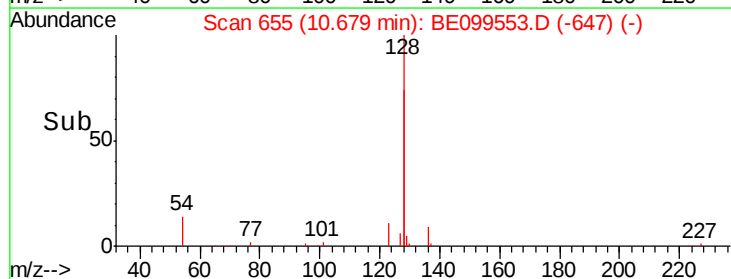
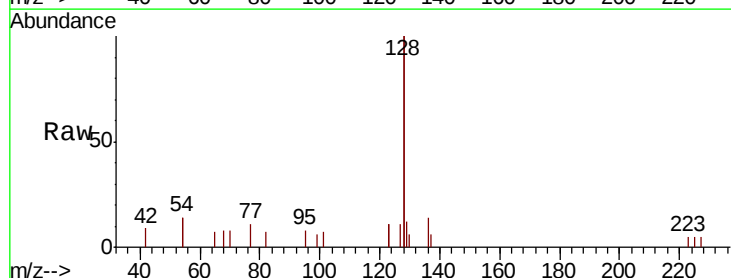
RT: 10.68 min Scan# 655

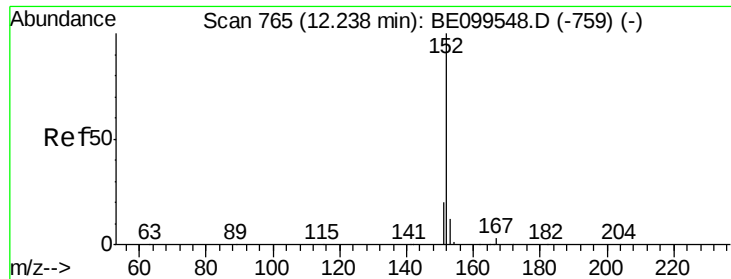
Delta R.T. -0.00 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Tgt Ion:	128	Resp:	3200
Ion Ratio	Lower	Upper	
128	100		
129	5.8	2.4	3.6#
127	5.6	2.8	4.2#





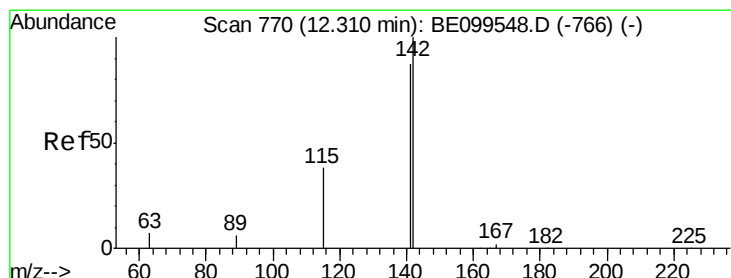
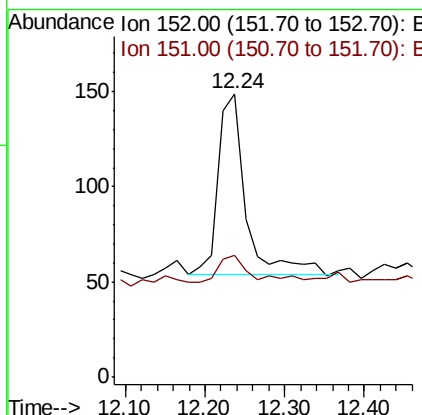
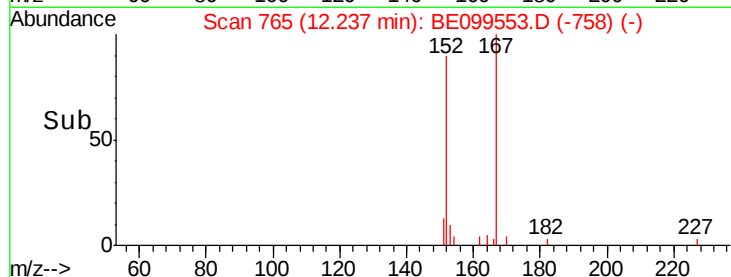
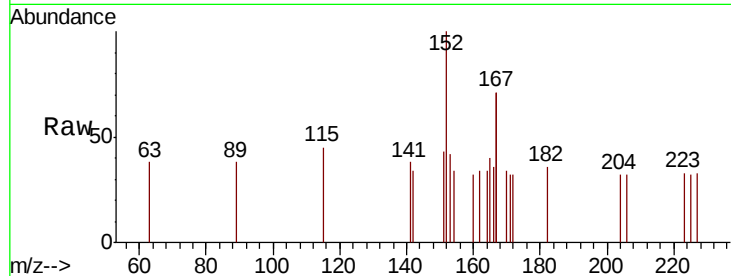
#11
2-Methylnaphthalene-d10
Concen: 0.022 ng
RT: 12.24 min Scan# 765
Delta R.T. -0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

Tot Ion:152 Resp: 227
Ion Ratio Lower Upper
152 100
151 15.4 15.5 23.3#

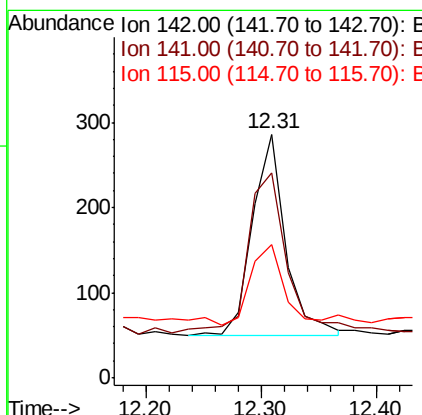
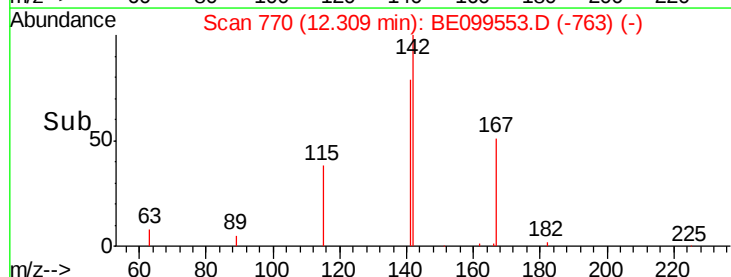
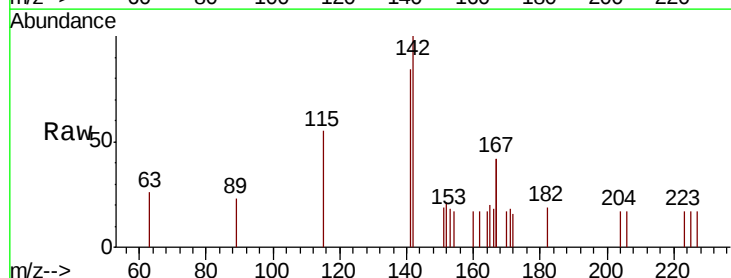
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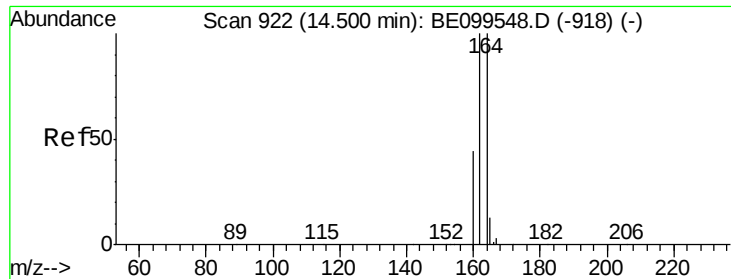
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#12
2-Methylnaphthalene
Concen: 0.044 ng
RT: 12.31 min Scan# 770
Delta R.T. -0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Tgt Ion:142 Resp: 467
Ion Ratio Lower Upper
142 100
141 84.3 77.0 115.4
115 54.5 33.4 50.0#





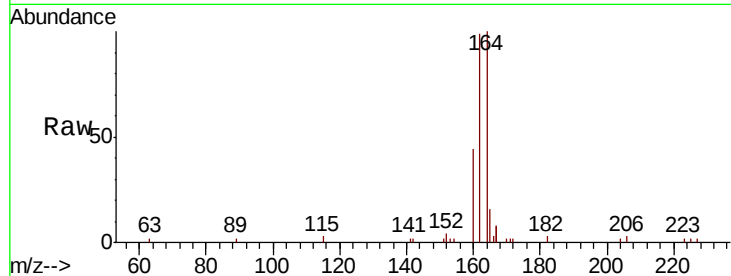
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.50 min Scan# 922
Delta R.T. -0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	98.8	79.0	118.4
160	44.0	37.0	55.4

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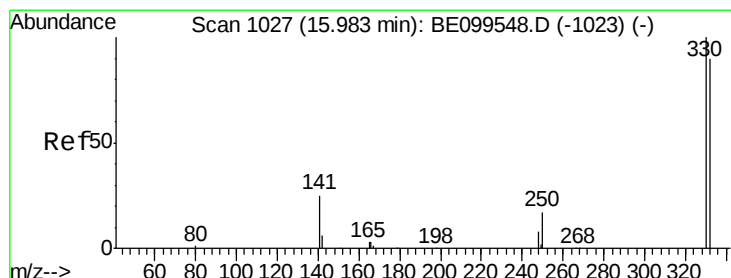
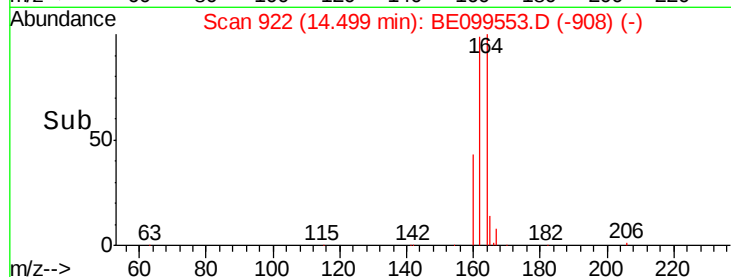
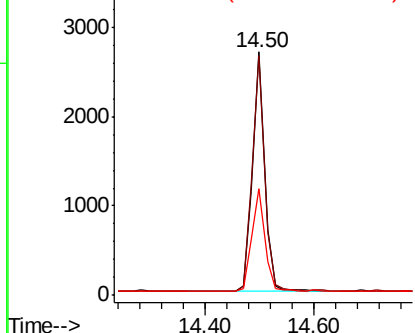


Abundance

Ion 164.00 (163.70 to 164.70): E

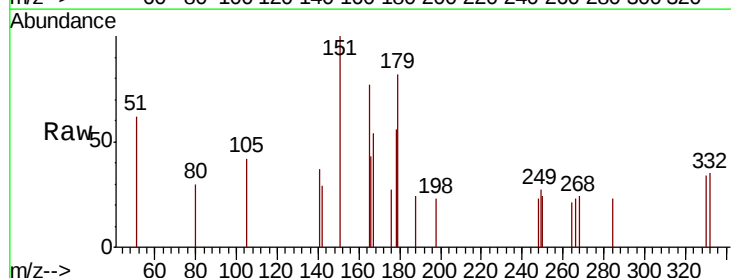
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14
2,4,6-Tribromophenol
Concen: 0.024 ng
RT: 15.98 min Scan# 1027
Delta R.T. 0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.2	71.5	107.3
141	95.2	24.0	36.0#

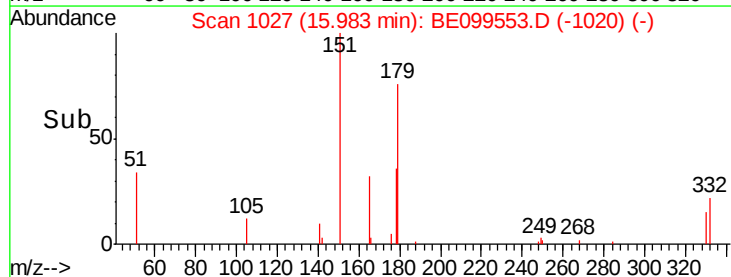
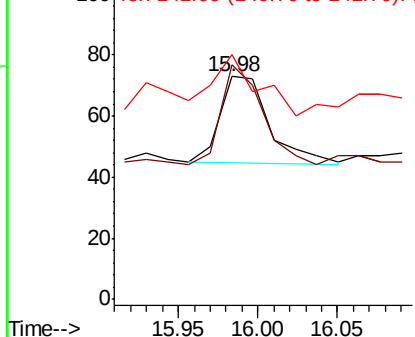


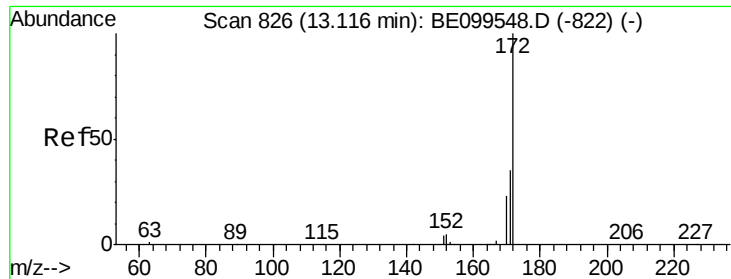
Abundance

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





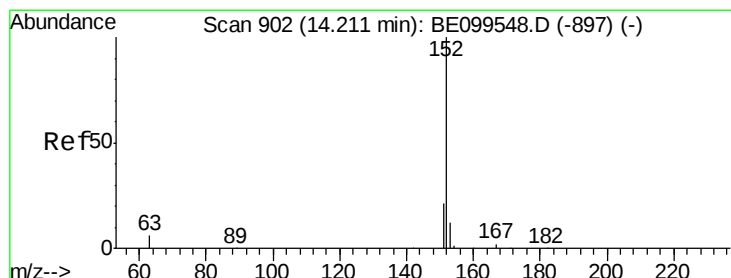
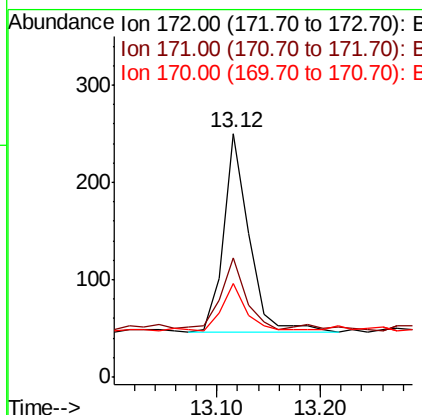
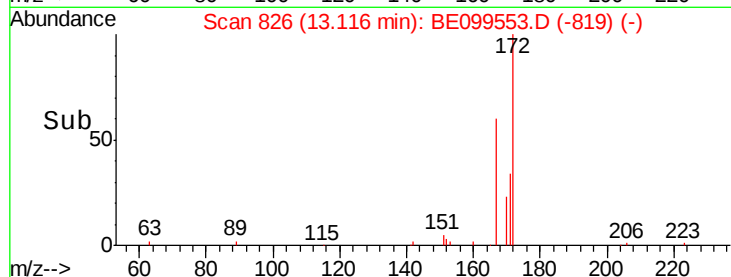
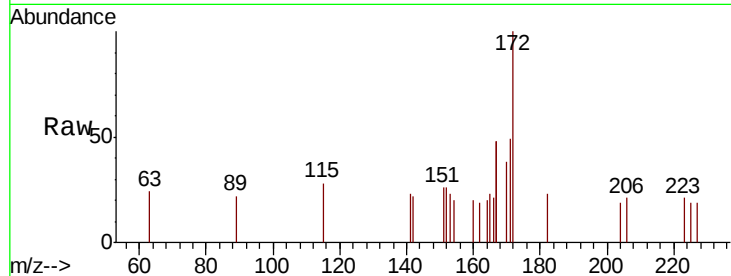
#15
2-Fluorobiphenyl
Concen: 0.022 ng
RT: 13.12 min Scan# 826
Delta R.T. -0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	48.8	26.6	39.8#
170	38.4	17.0	25.6#

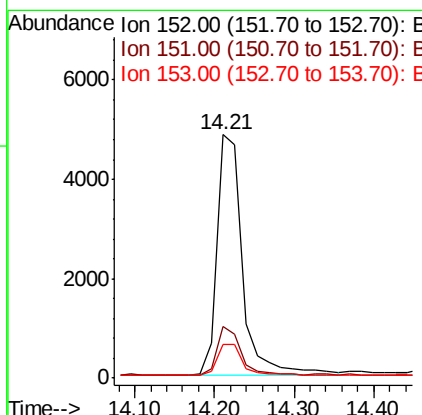
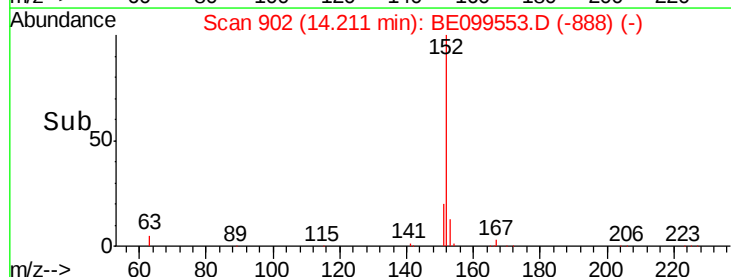
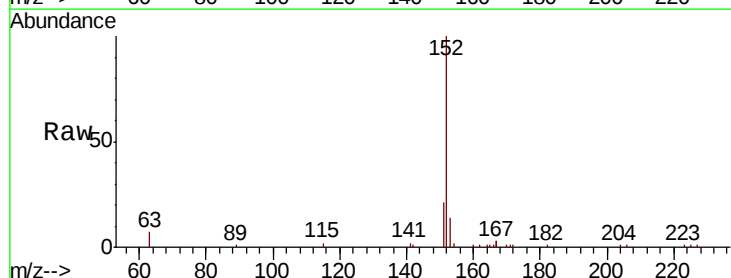
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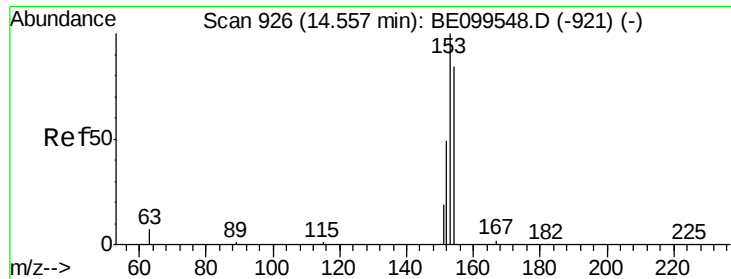
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#16
Acenaphthylene
Concen: 0.540 ng
RT: 14.21 min Scan# 902
Delta R.T. -0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.4	23.2
153	13.4	9.8	14.6





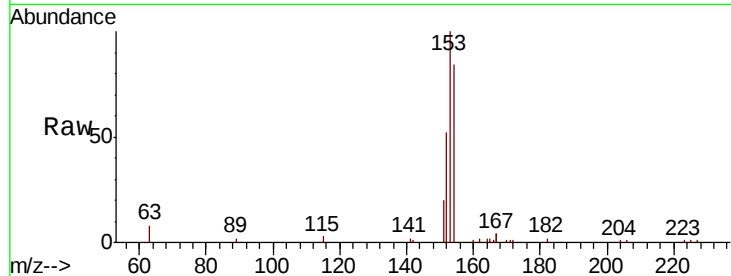
#17
Acenaphthene
Concen: 0.439 ng
RT: 14.56 min Scan# 926
Delta R.T. -0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	117.1	92.6	138.8
152	57.0	45.8	68.8

Manual Integrations
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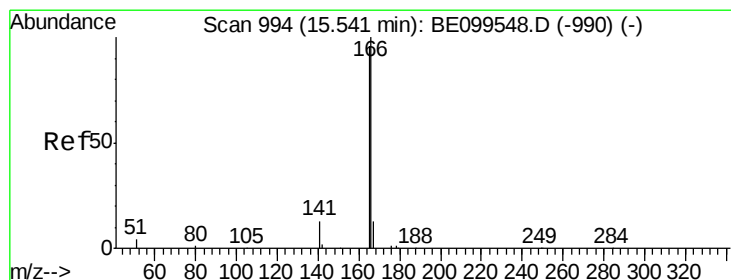
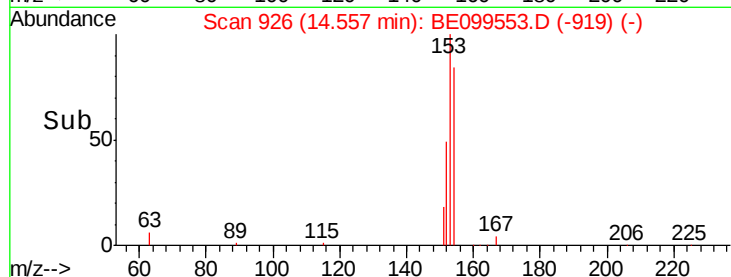
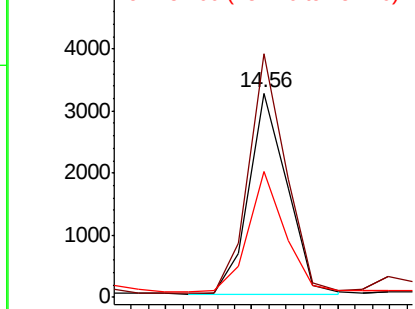


Abundance

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: 0.679 ng
RT: 15.54 min Scan# 994
Delta R.T. 0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

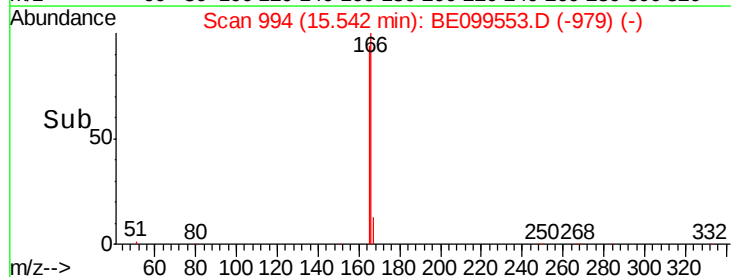
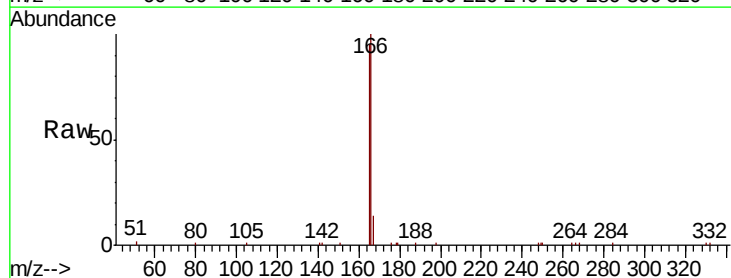
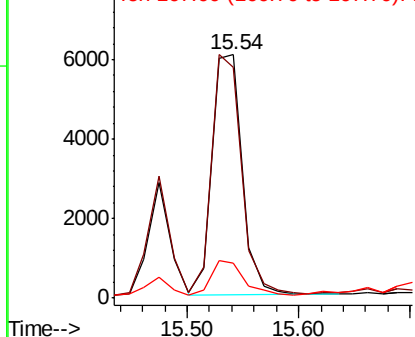
Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.9	80.3	120.5
167	15.1	10.7	16.1

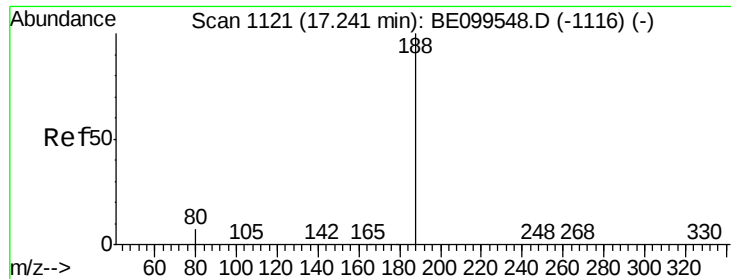
Abundance

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: 17.24 min Scan# 1121

Delta R.T. 0.00 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Instrument :

BNA_E

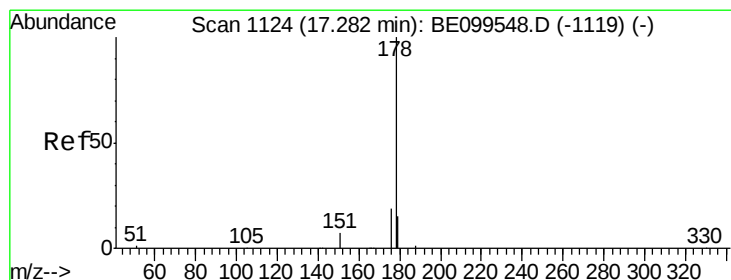
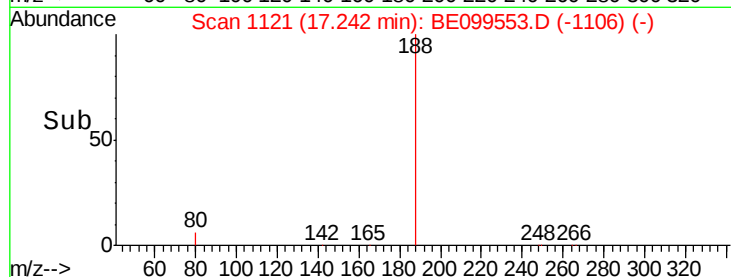
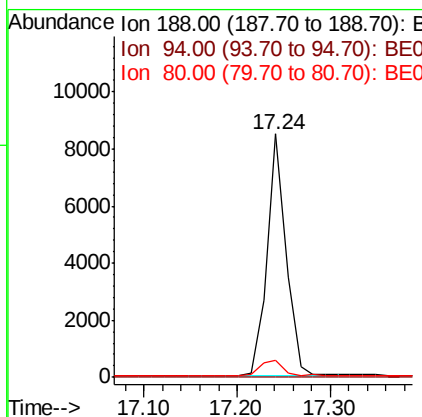
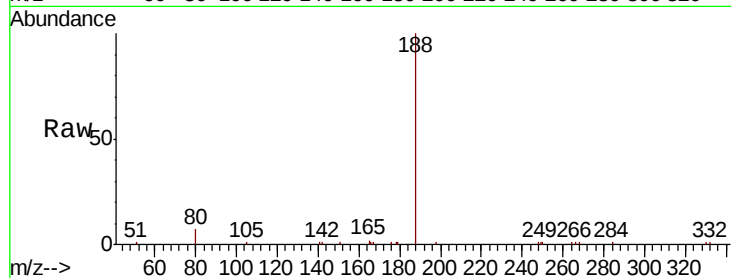
ClientSampleId :

EXT-004-SW068-042319DL

Tot Ion:	188	Resp:	12201
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	6.9	6.7	10.1

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#23

Phenanthrene

Concen: 8.324 ng

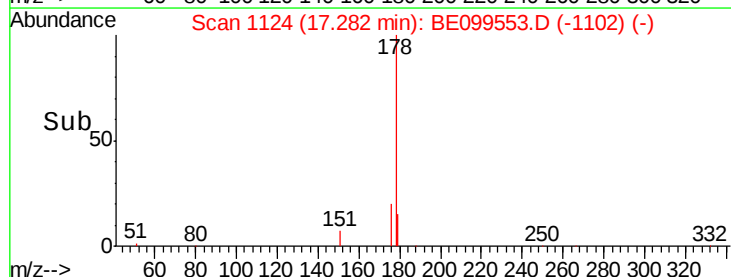
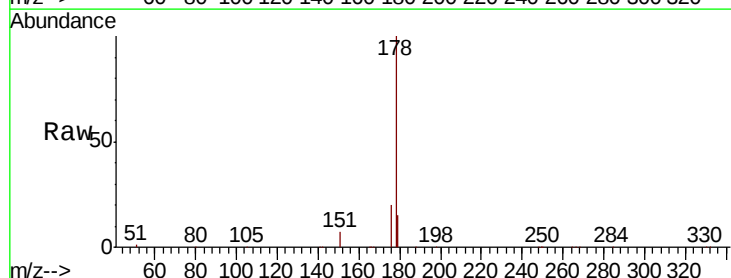
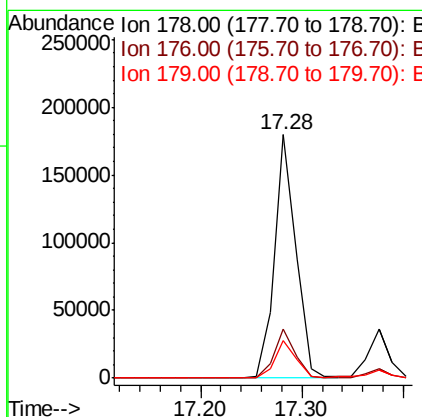
RT: 17.28 min Scan# 1124

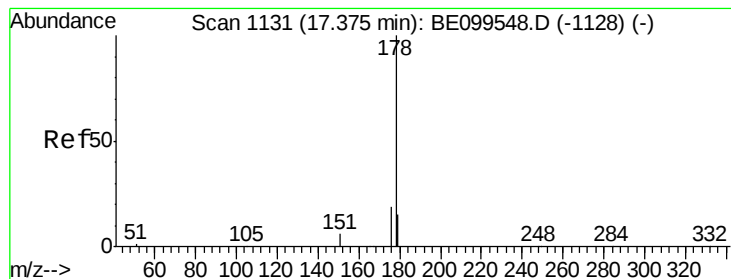
Delta R.T. 0.00 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Tgt Ion:	178	Resp:	262065
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.6	23.4
179	15.4	12.0	18.0





#24

Anthracene

Concen: 1.737 ng

RT: 17.38 min Scan# 1131

Delta R.T. 0.00 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Instrument :

BNA_E

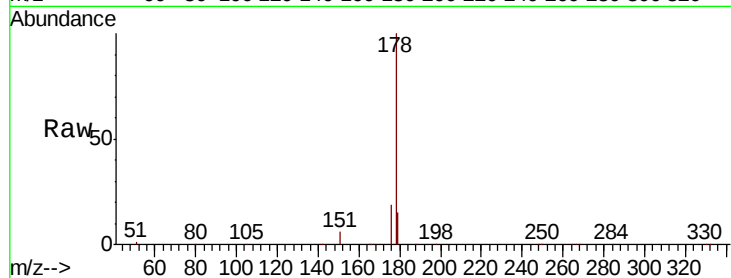
ClientSampleId :

EXT-004-SW068-042319DL

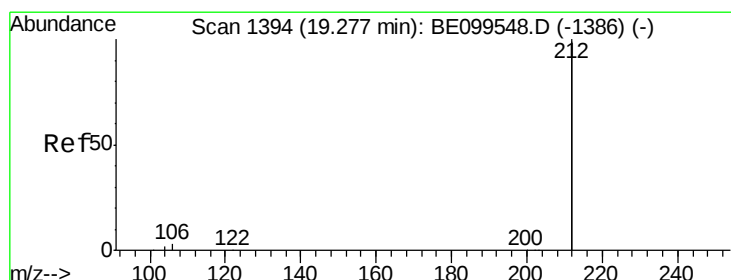
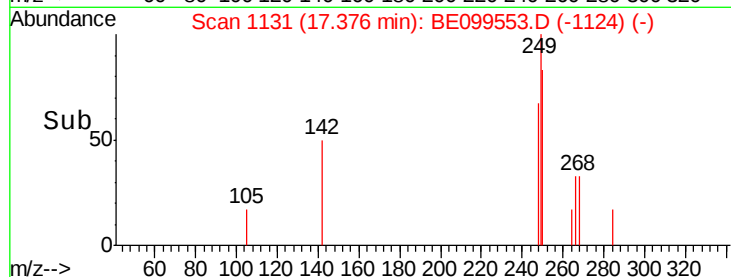
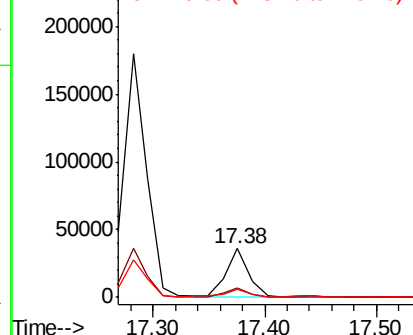
Tot Ion:178	Resp:	52110
Ion Ratio	Lower	Upper
178	100	
176	18.6	14.9 22.3
179	16.8	11.9 17.9

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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



#25

Fluoranthene-d10

Concen: 0.020 ng

RT: 19.28 min Scan# 1394

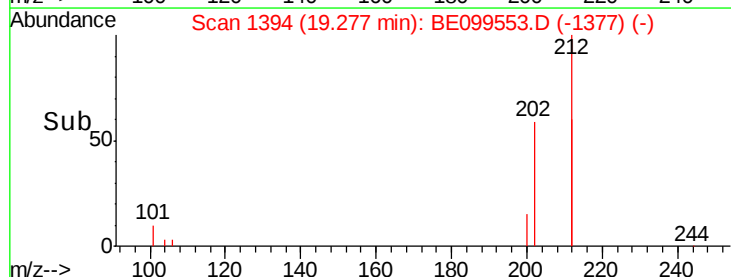
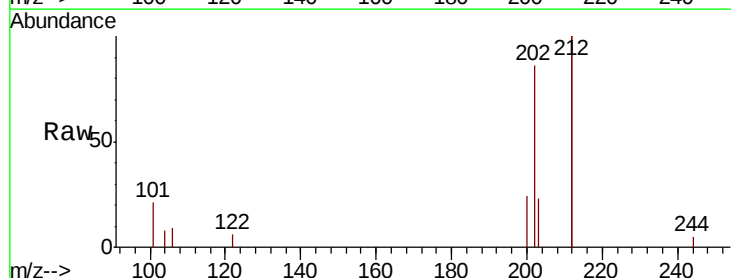
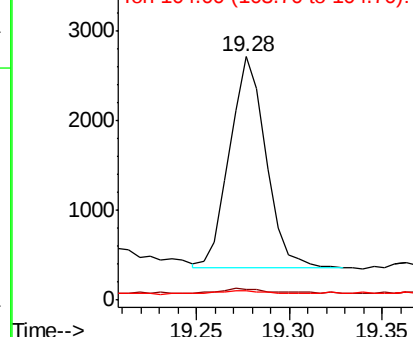
Delta R.T. -0.00 min

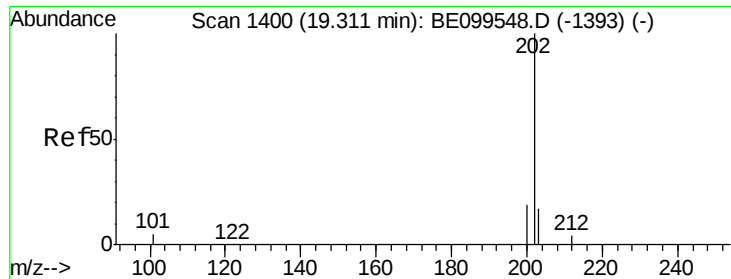
Lab File: BE099553.D

Acq: 6 May 2019 15:27

Tgt Ion:212	Resp:	3215
Ion Ratio	Lower	Upper
212	100	
106	3.8	1.5 2.3#
104	2.3	0.9 1.3#

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





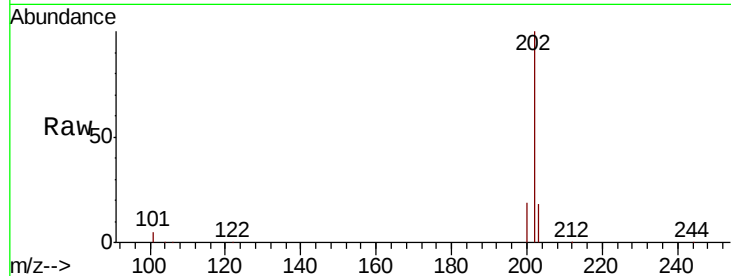
#26
 Fluoranthene
 Concen: 16.676 ng
 RT: 19.31 min Scan# 1400
 Delta R.T. -0.00 min
 Lab File: BE099553.D
 Acq: 6 May 2019 15:27

Instrument :
 BNA_E
 ClientSampleId :
 EXT-004-SW068-042319DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	786404		
101	6.2		5.4	8.0
203	17.6		13.9	20.9

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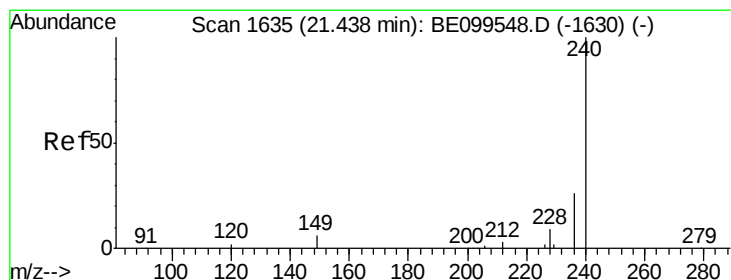
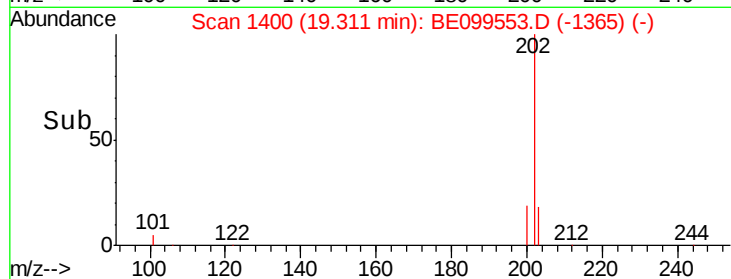
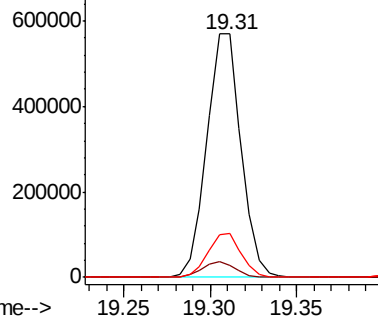


Abundance

Ion 202.00 (201.70 to 202.70): E

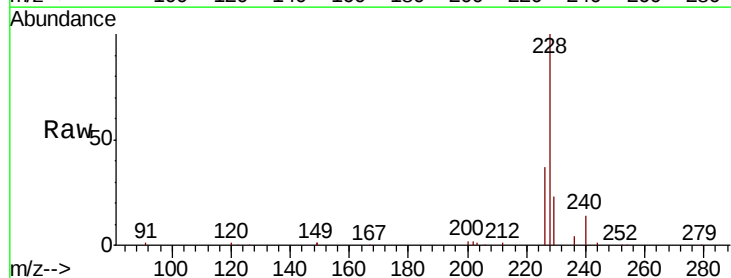
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.43 min Scan# 1635
 Delta R.T. -0.01 min
 Lab File: BE099553.D
 Acq: 6 May 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	16948		
120	6.6		4.0	6.0#
236	29.4		22.0	33.0

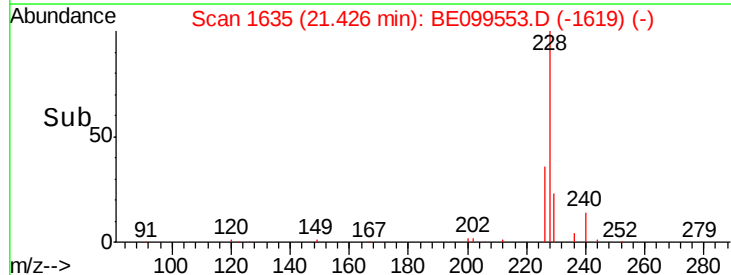
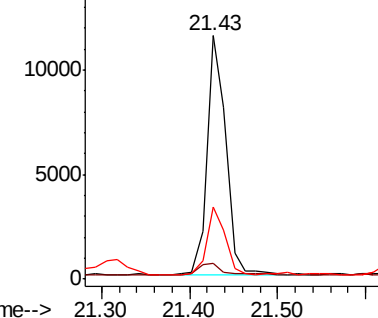


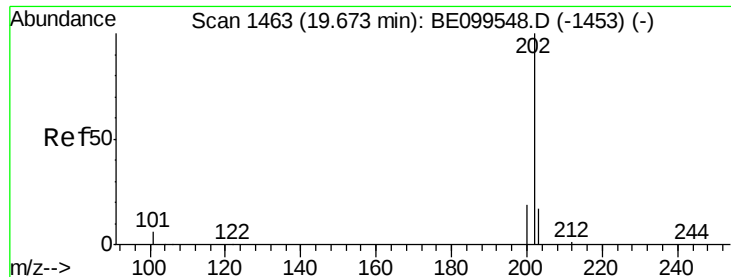
Abundance

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





#28

Pvrene

Concen: 15.050 ng

RT: 19.67 min Scan# 1463

Delta R.T. -0.00 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Instrument :

BNA_E

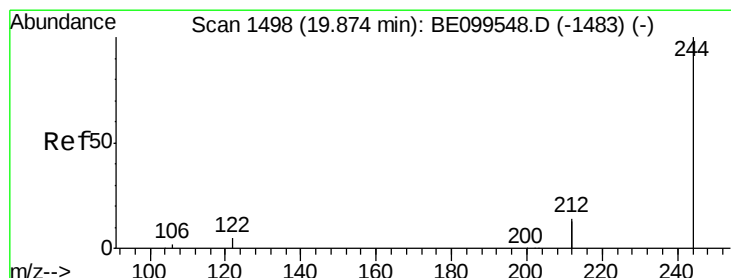
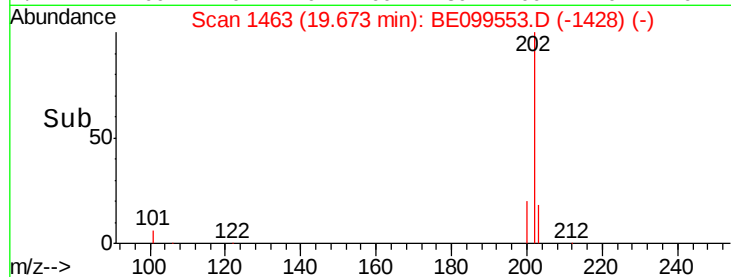
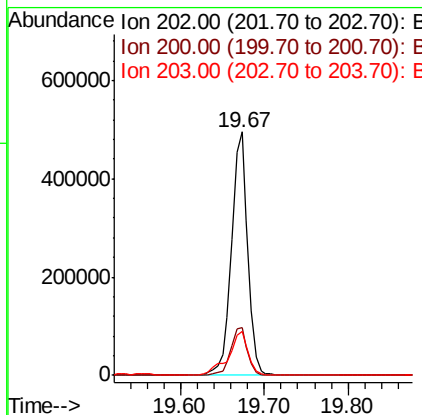
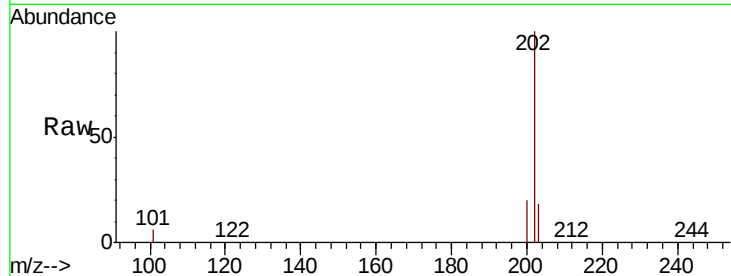
ClientSampleId :

EXT-004-SW068-042319DL

Tot Ion:	202	Resp:	664896
Ion Ratio	Lower	Upper	
202	100		
200	20.1	15.7	23.5
203	21.7	13.9	20.9#

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#29

Terphenyl-d14

Concen: 0.036 ng

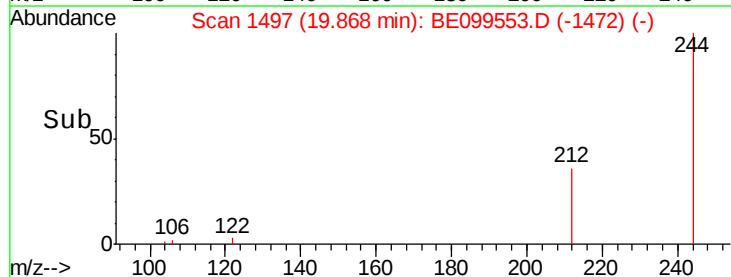
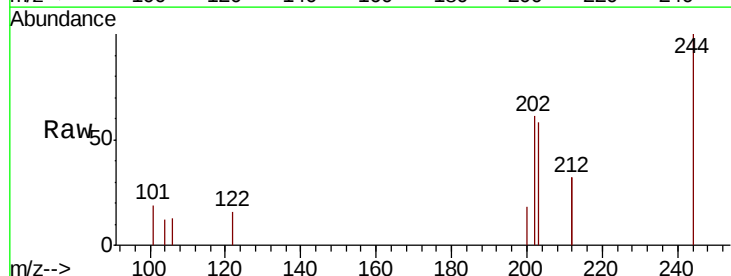
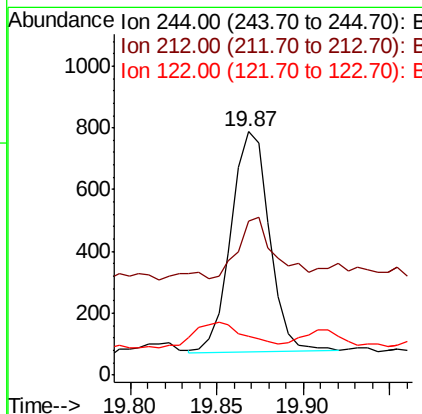
RT: 19.87 min Scan# 1497

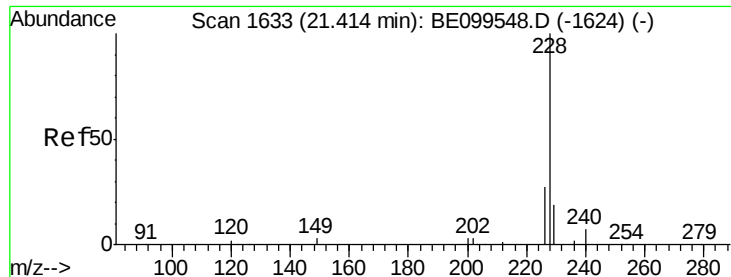
Delta R.T. -0.01 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Tgt Ion:	244	Resp:	1106
Ion Ratio	Lower	Upper	
244	100		
212	63.5	23.2	34.8#
122	16.1	4.2	6.4#





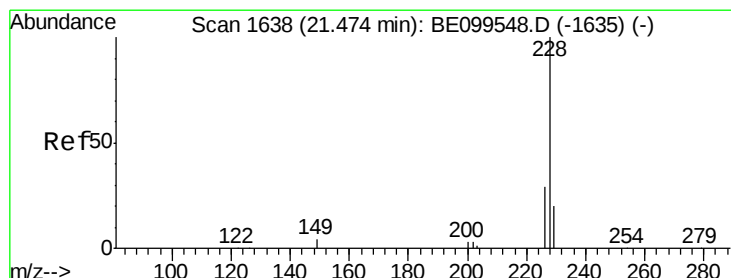
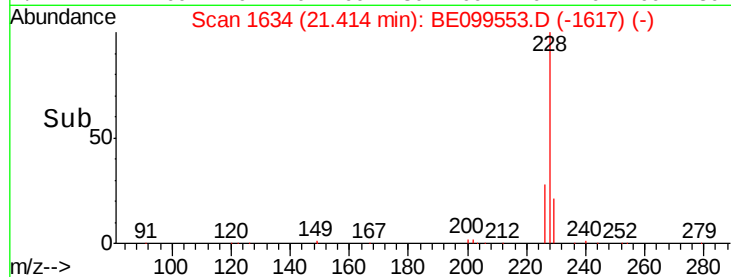
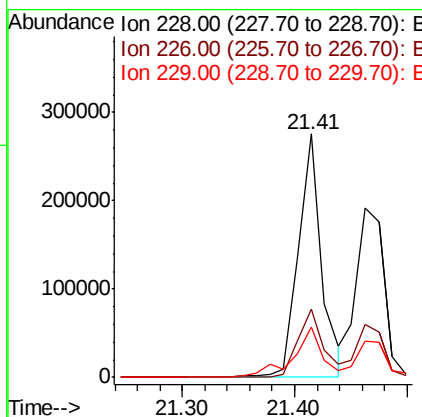
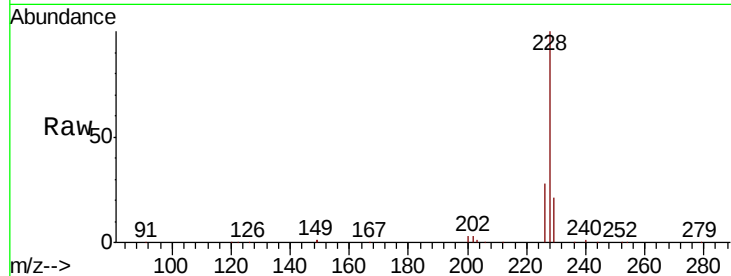
#30
Benzo(a)anthracene
Concen: 7.289 ng
RT: 21.41 min Scan# 1634
Delta R.T. 0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.3	21.0	31.6
229	20.8	16.6	25.0

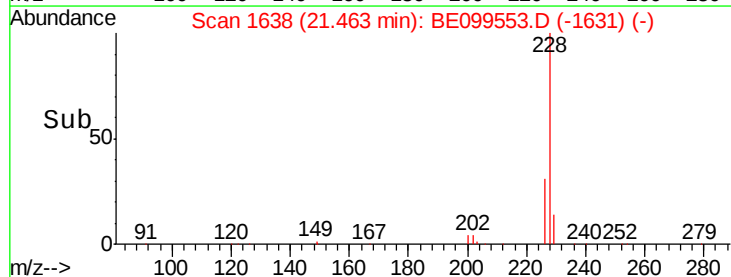
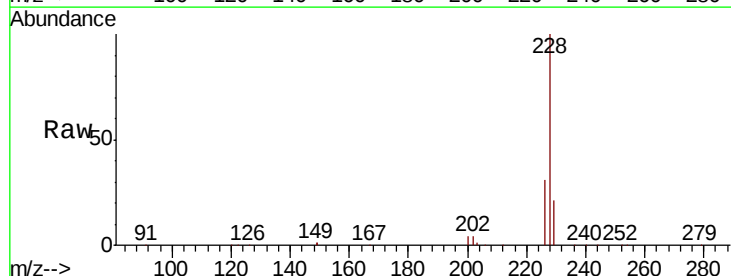
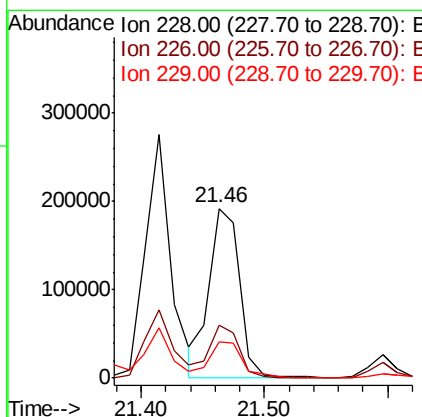
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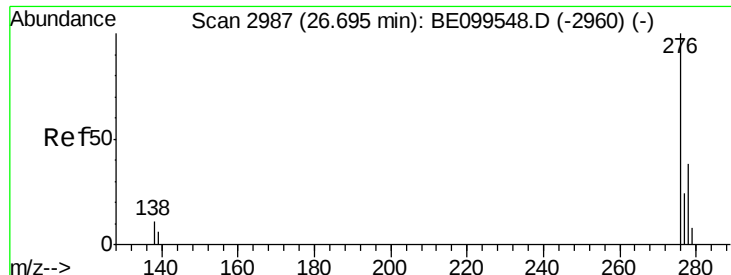
mohammad
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#31
Chrysene
Concen: 6.221 ng
RT: 21.46 min Scan# 1638
Delta R.T. -0.01 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.0	36.0
229	21.4	15.8	23.8





#33

Indeno(1,2,3-cd)pyrene

Concen: 3.334 ng

RT: 26.69 min Scan# 2987

Delta R.T. -0.00 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Instrument :

BNA_E

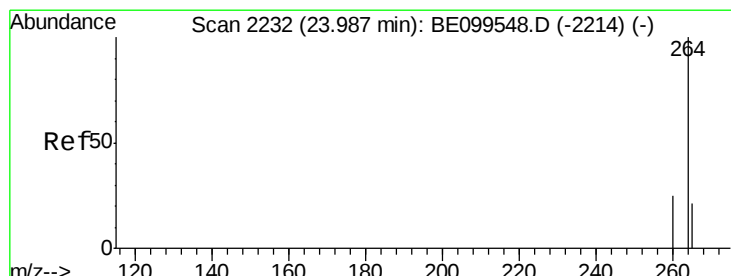
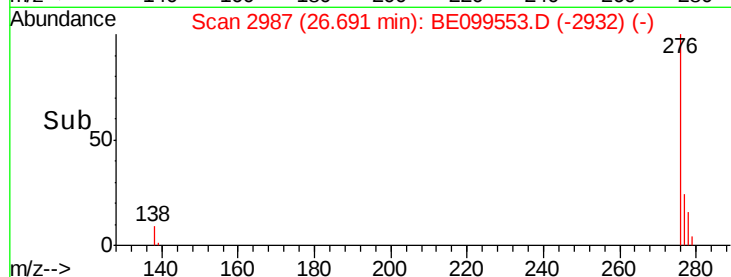
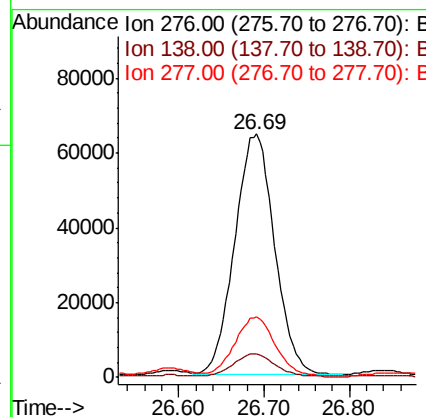
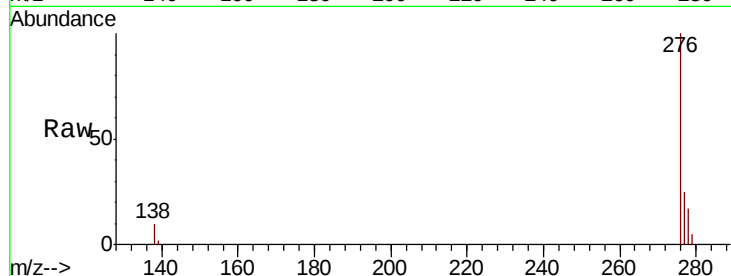
ClientSampleId :

EXT-004-SW068-042319DL

Tot Ion	Ratio	Resp	Lower	Upper
276	100	208218		
138	9.7	10.2	15.2#	
277	24.6	19.2	28.8	

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#34

Perylene-d12

Concen: 0.400 ng

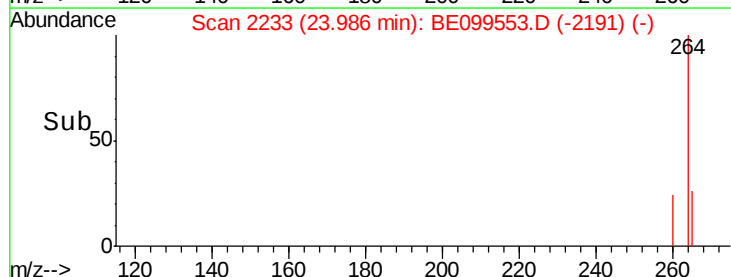
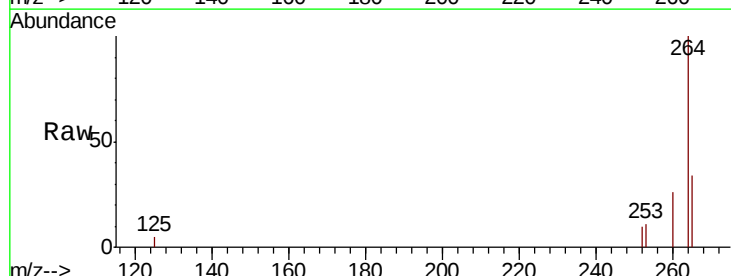
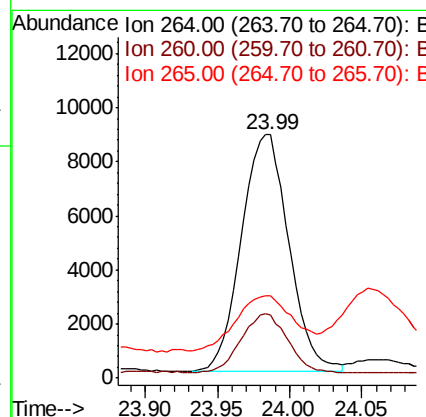
RT: 23.99 min Scan# 2233

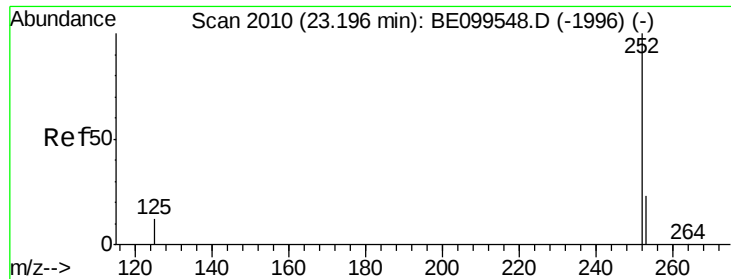
Delta R.T. -0.00 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	19719		
260	25.9	20.2	30.2	
265	33.8	21.3	31.9#	





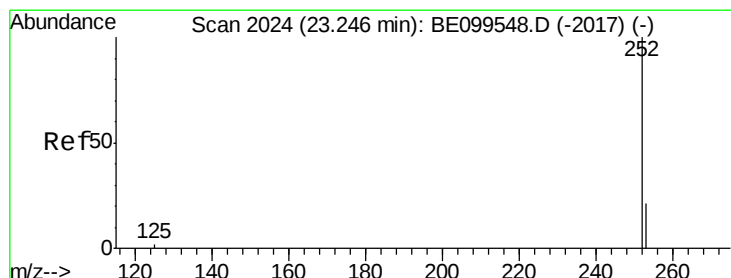
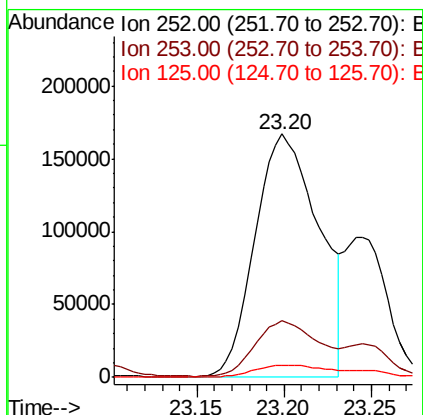
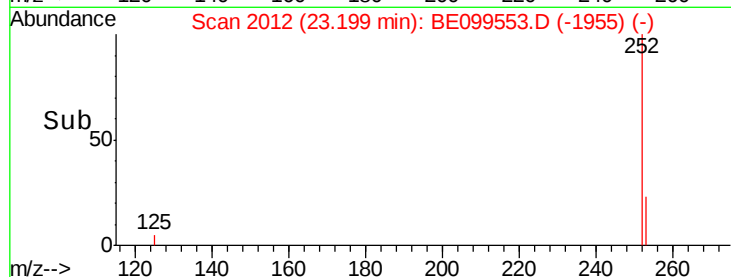
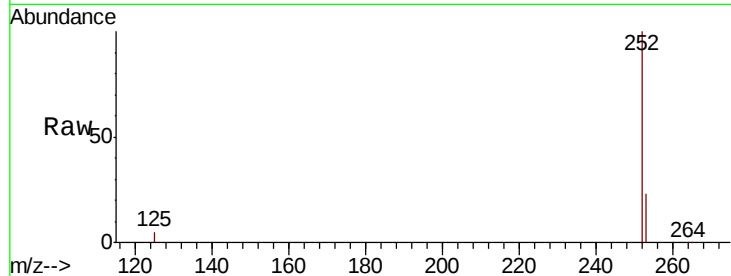
#35
Benzo(b)fluoranthene
Concen: 7.446 ng
RT: 23.20 min Scan# 2012
Delta R.T. 0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Instrument :
BNA_E
ClientSampleId :
EXT-004-SW068-042319DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	5.1	5.6	8.4

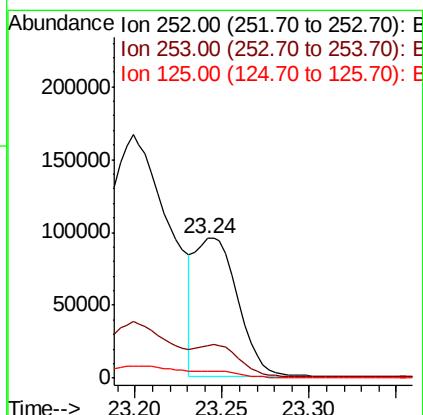
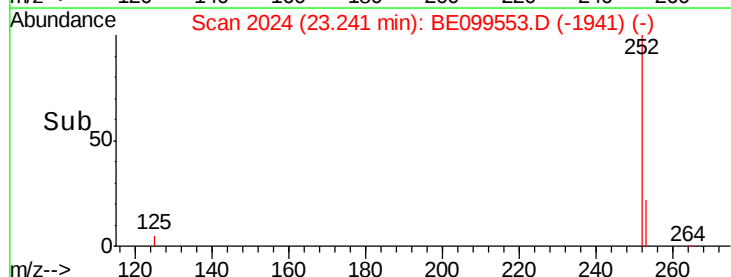
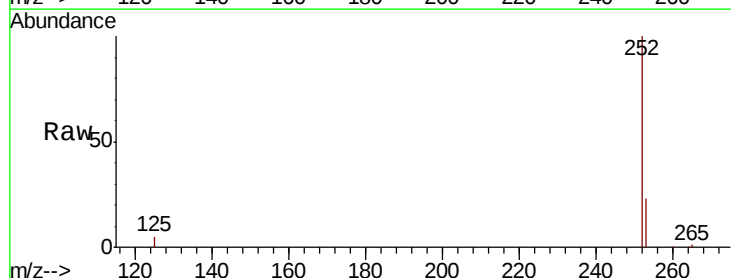
Manual Integrations
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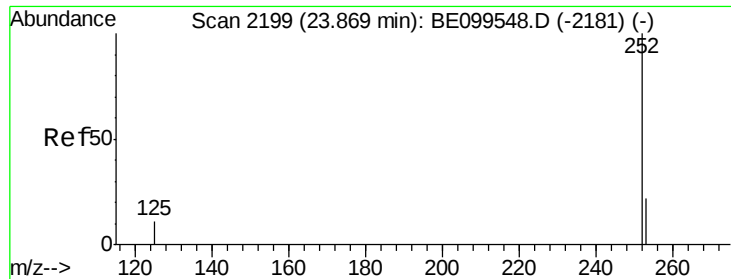
mohammad
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#36
Benzo(k)fluoranthene
Concen: 2.980 ng m
RT: 23.24 min Scan# 2024
Delta R.T. -0.00 min
Lab File: BE099553.D
Acq: 6 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	5.2	5.0	7.4





#37

Benzo(a)pyrene

Concen: 5.680 ng/mL

RT: 23.87 min Scan# 2200

Delta R.T. -0.00 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Instrument :

BNA_E

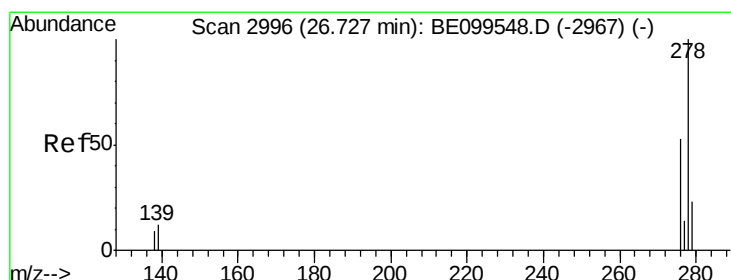
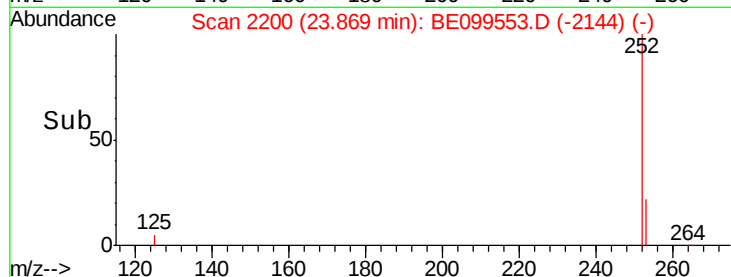
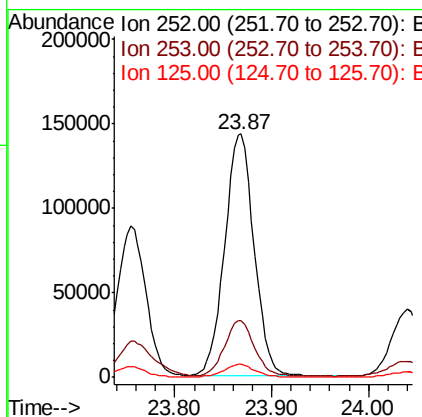
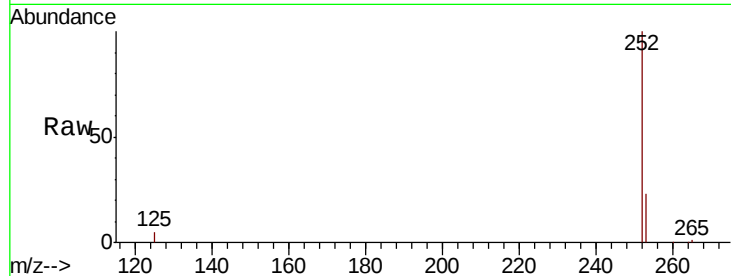
ClientSampleId :

EXT-004-SW068-042319DL

Tot Ion:	252	Resp:	305352
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.9	28.3
125	5.3	6.7	10.1

Manual Integrations
APPROVED

mohammad
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#38

Dibenzo(a,h)anthracene

Concen: 0.862 ng/mL

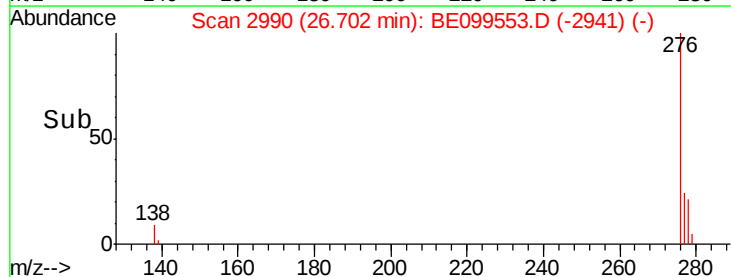
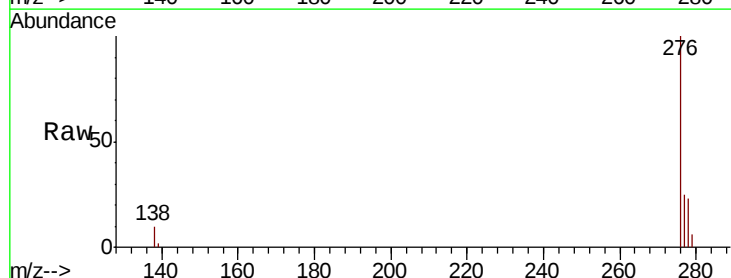
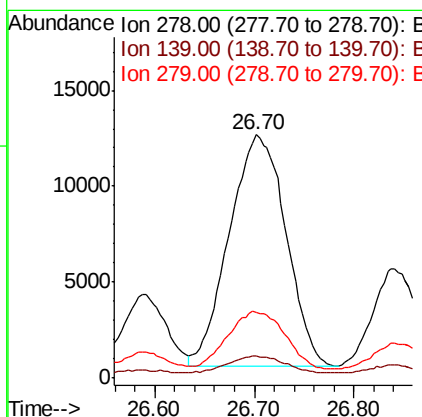
RT: 26.70 min Scan# 2990

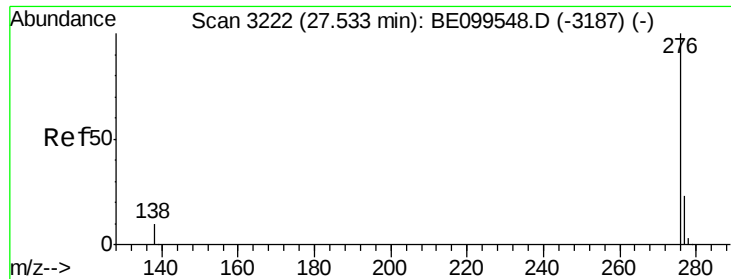
Delta R.T. -0.02 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Tgt Ion:	278	Resp:	47425
Ion Ratio	Lower	Upper	
278	100		
139	9.4	7.7	11.5
279	27.0	20.2	30.2





#39

Benzo(a,h,i)perylene

Concen: 3.436 ng

RT: 27.53 min Scan# 3222

Delta R.T. -0.00 min

Lab File: BE099553.D

Acq: 6 May 2019 15:27

Instrument :

BNA_E

ClientSampleId :

EXT-004-SW068-042319DL

Tot Ion:	276	Resp:	189302
Ion Ratio	Lower	Upper	
276	100		
277	24.4	19.5	29.3
138	10.3	9.6	14.4

Manual Integrations
APPROVED

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5/7/2019 3:11:14 PM

