

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE061219\
 Data File : BE099966.D
 Acq On : 12 Jun 2019 21:03
 Operator : JU/SJ
 Sample : K3270-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 TW-01

Manual Integrations
 APPROVED

mohammad
 6/14/2019 8:45:03 AM

Quant Time: Jun 13 05:28:41 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE061019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Jun 10 14:57:20 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.78	152	1117	0.40	nq	-0.02
7) Naphthalene-d8	10.60	136	3954	0.40	nq	0.00
13) Acenaphthene-d10	14.46	164	3467	0.40	nq	-0.01
19) Phenanthrene-d10	17.20	188	8749	0.40	nq	-0.01
27) Chrysene-d12	21.39	240	12167	0.40	nq	-0.01
34) Perylene-d12	23.92	264	13824	0.40	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.35	112	283	0.09	nq	0.00
5) Phenol-d6	6.95	99	205m	0.05	nq	-0.02
8) Nitrobenzene-d5	8.95	82	743m	0.20	nq	-0.01
11) 2-Methylnaphthalene-d10	12.20	152	1011	0.15	nq	-0.01
14) 2,4,6-Tribromophenol	15.96	330	390	0.15	nq	-0.01
15) 2-Fluorobiphenyl	13.07	172	2052	0.16	nq	-0.03
25) Fluoranthene-d10	19.24	212	16548	0.13	nq	-0.01
29) Terphenyl-d14	19.84	244	8186	0.37	ng	-0.01

Target Compounds

						Qvalue
9) Naphthalene	10.69	128	43248968	1013.272	nq	99
12) 2-Methylnaphthalene	12.27	142	529441	76.350	nq	99
16) Acenaphthylene	14.18	152	244393	14.168	nq	98
17) Acenaphthene	14.53	154	285726	30.414	nq	100
18) Fluorene	15.50	166	330771	23.458	nq	99
22) Pentachlorophenol	16.87	266	50	0.320	nq	93
23) Phenanthrene	17.25	178	668691	31.498	nq	99
24) Anthracene	17.33	178	115163	5.917	nq	# 94
26) Fluoranthene	19.27	202	404173	11.201	nq	98
28) Pvrene	19.64	202	349236	10.925	nq	98
30) Benzo(a)anthracene	21.38	228	209956m	5.774	nq	
31) Chrysene	21.43	228	146104	3.886	nq	96
32) Bis(2-ethylhexyl)phthalate	21.29	149	7030	0.135	nq	99
33) Indeno(1,2,3-cd)pyrene	26.59	276	157510	3.533	nq	98
35) Benzo(b)fluoranthene	23.14	252	245849	6.346	nq	99
36) Benzo(k)fluoranthene	23.19	252	89296m	2.204	nq	
37) Benzo(a)pvrene	23.80	252	196440m	5.148	nq	
38) Dibenzo(a,h)anthracene	26.60	278	38038	0.990	nq	100
39) Benzo(g,h,i)perylene	27.42	276	182331	4.592	nq	98

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

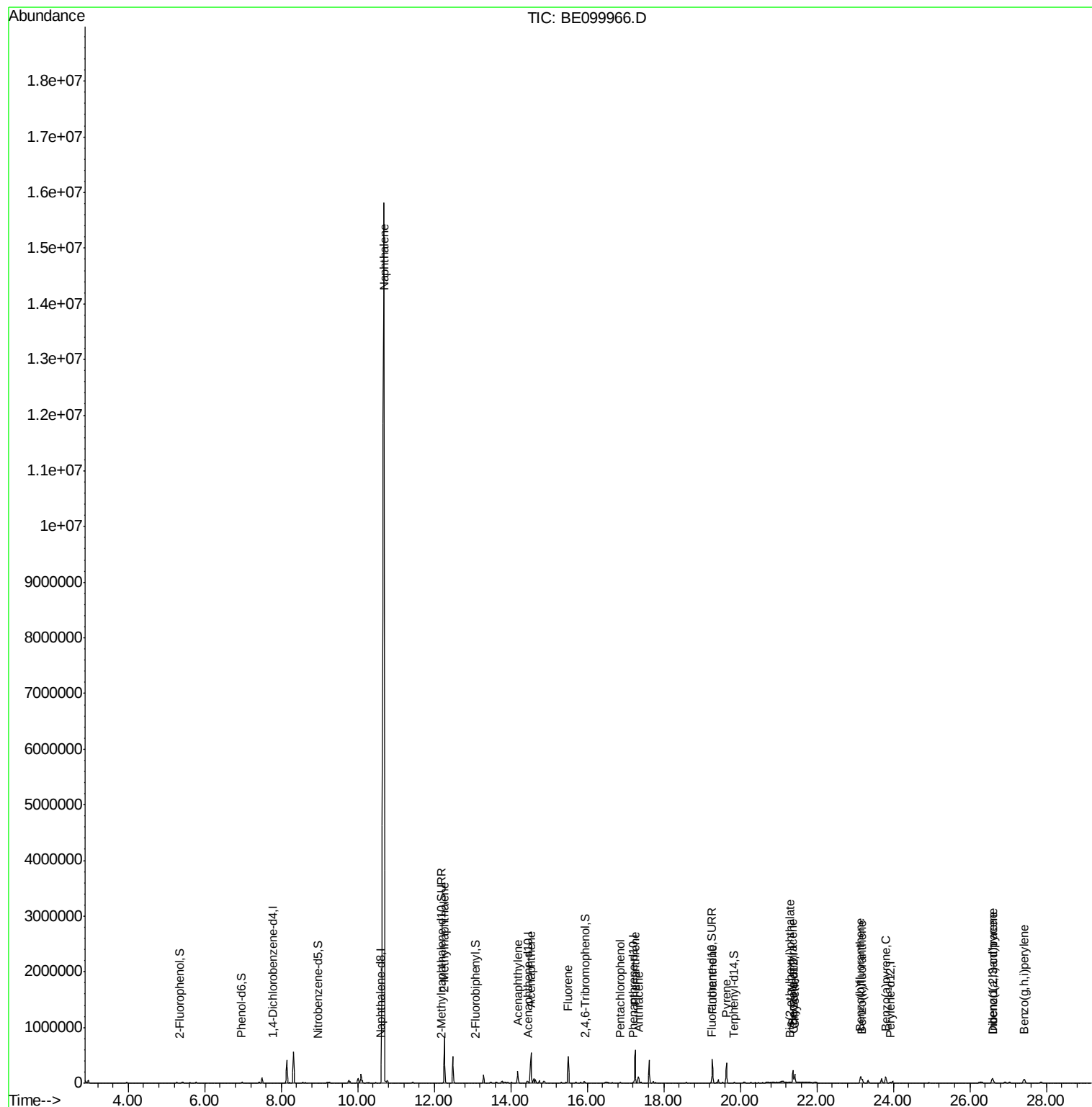
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE061219\
Data File : BE099966.D
Acq On : 12 Jun 2019 21:03
Operator : JU/SJ
Sample : K3270-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

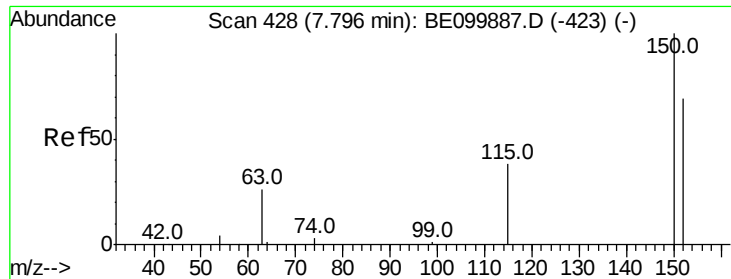
Instrument :
BNA_E
ClientSampleId :
TW-01

Quant Time: Jun 13 05:28:41 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE061019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.78 min Scan# 427

Delta R.T. -0.02 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Instrument :

BNA_E

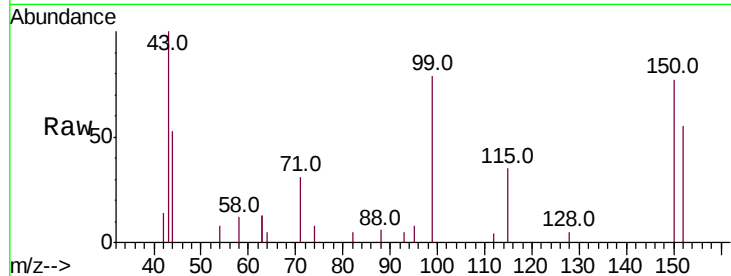
ClientSampled :

TW-01

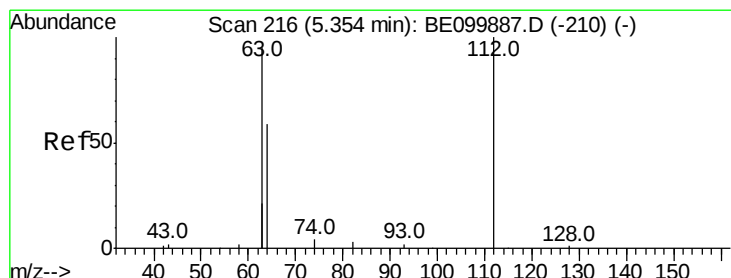
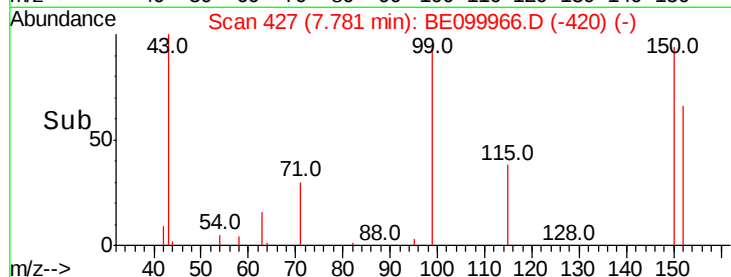
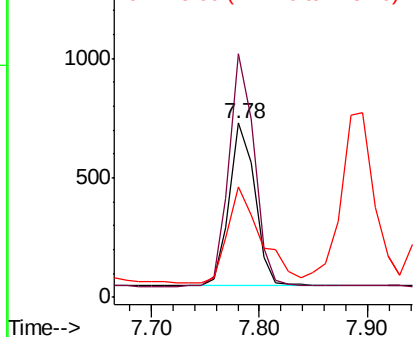
Tot Ion:	152	Resp:	1117
Ion	Ratio	Lower	Upper
152	100		
150	139.8	111.0	166.6
115	63.2	50.7	76.1

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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: 0.094 ng

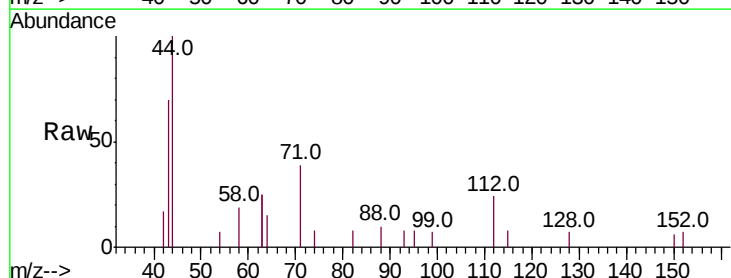
RT: 5.35 min Scan# 216

Delta R.T. -0.00 min

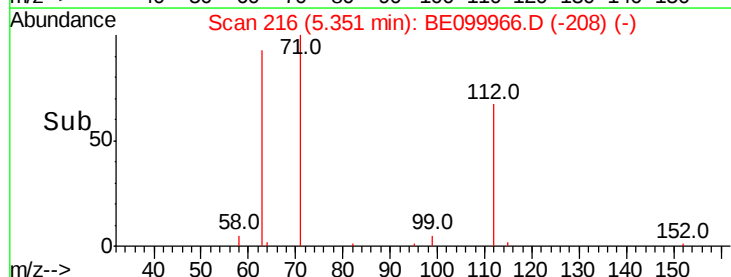
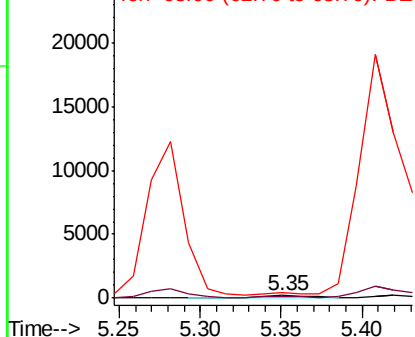
Lab File: BE099966.D

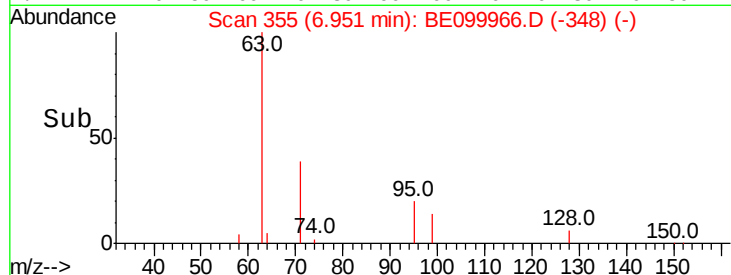
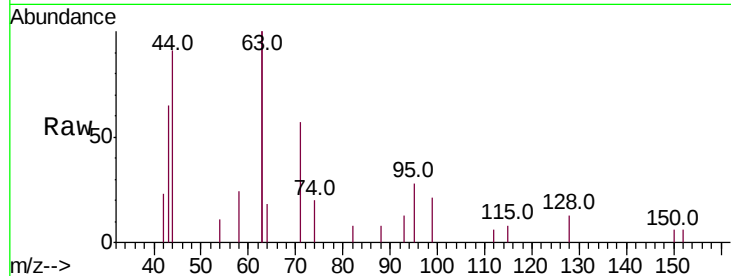
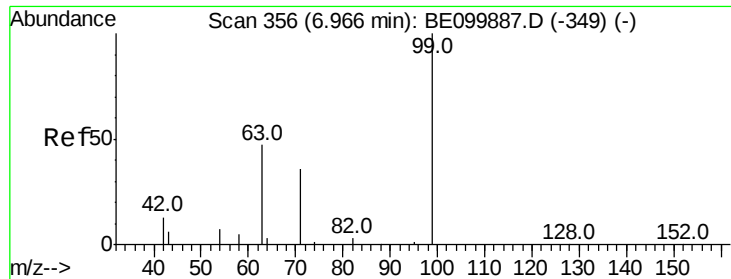
Acq: 12 Jun 2019 21:03

Tgt Ion:	112	Resp:	283
Ion	Ratio	Lower	Upper
112	100		
64	41.3	44.1	66.1#
63	0.0	87.8	131.6#



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: 0.053 ng/ml

RT: 6.95 min Scan# 355

Delta R.T. -0.02 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Tot Ion	99	Resp	205
Ion	Ratio	Lower	Upper
99	100		
42	261.0	15.9	23.9#
71	465.4	34.6	52.0#

Instrument :

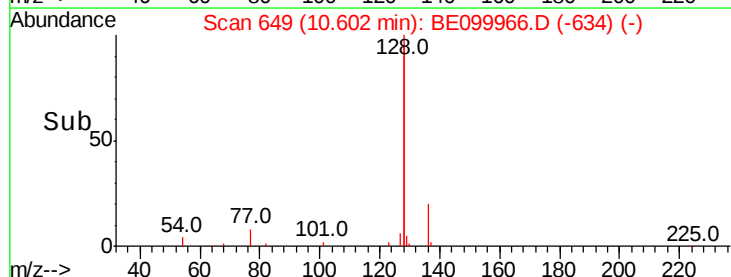
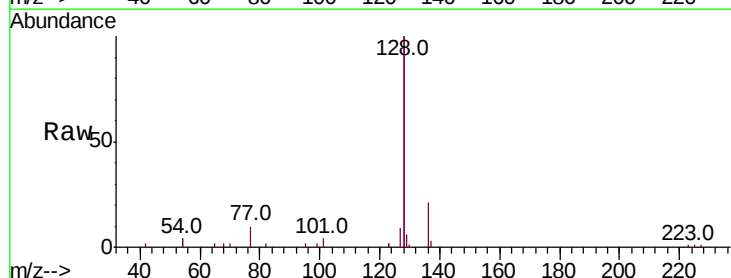
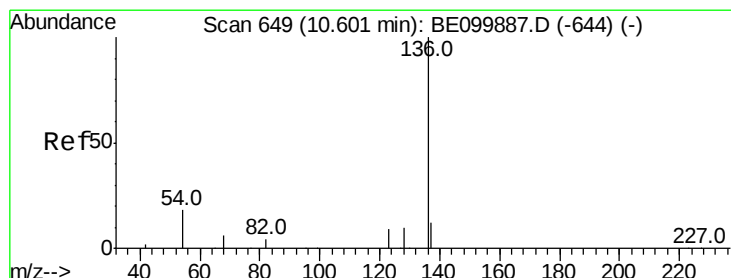
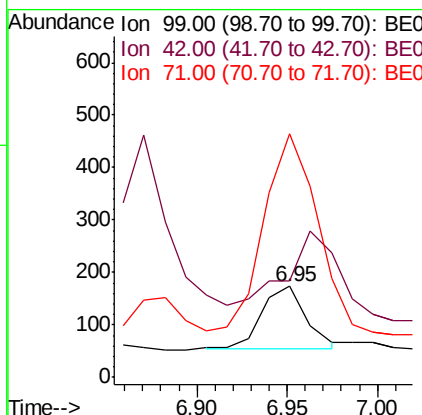
BNA_E

ClientSampleId :

TW-01

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#7

Naphthalene-d8

Concen: 0.400 ng/ml

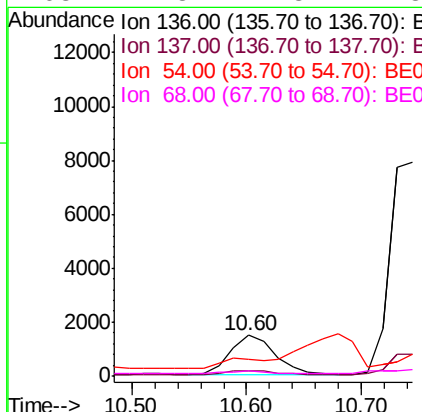
RT: 10.60 min Scan# 649

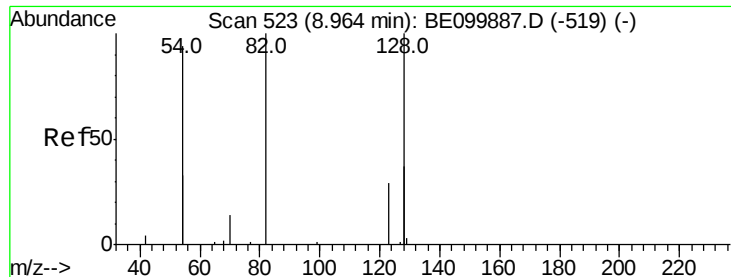
Delta R.T. 0.00 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Tgt Ion	136	Resp	3954
Ion	Ratio	Lower	Upper
136	100		
137	13.7	12.3	18.5
54	40.1	28.2	42.4
68	11.8	7.8	11.8#





#8

Nitrobenzene-d5

Concen: 0.198 ng/ml

RT: 8.95 min Scan# 522

Delta R.T. -0.01 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Instrument :

BNA_E

ClientSampleId :

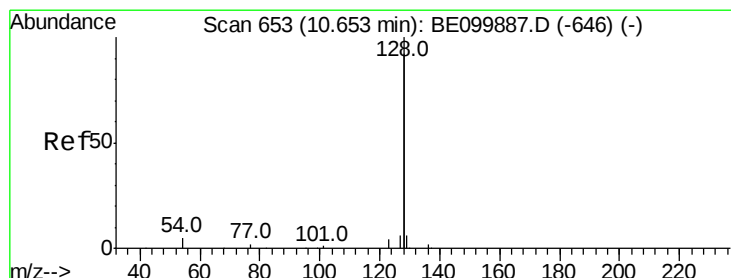
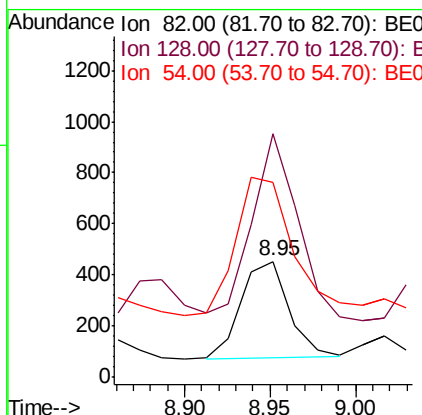
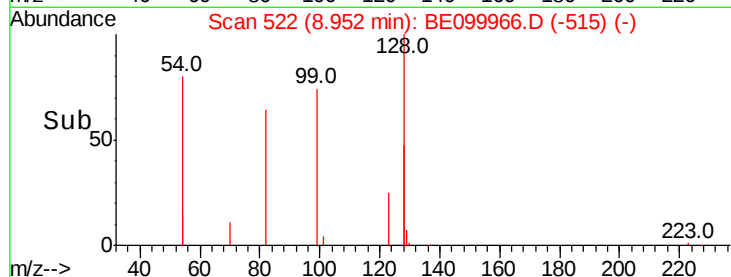
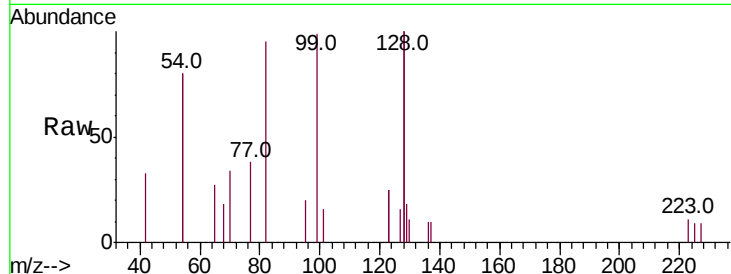
TW-01

Tot Ion: 82 Resp: 743

Ion	Ratio	Lower	Upper
82	100		
128	105.1	137.3	205.9#
54	83.9	129.7	194.5#

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#9

Naphthalene

Concen: 1013.272 ng/ml

RT: 10.69 min Scan# 656

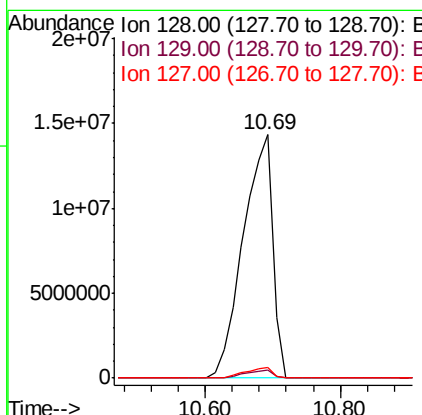
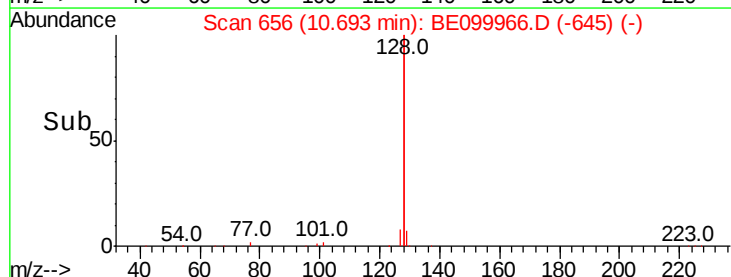
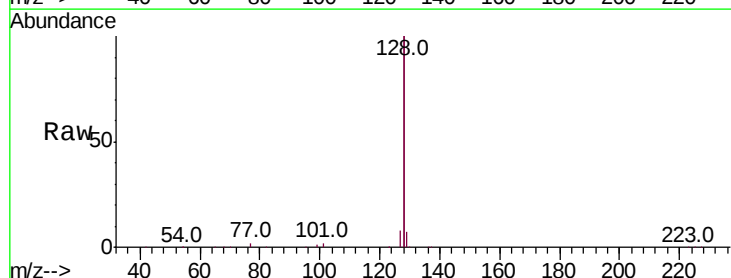
Delta R.T. 0.04 min

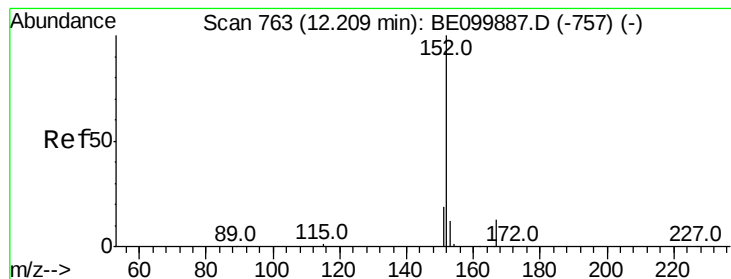
Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Tgt Ion: 128 Resp: 43248968

Ion	Ratio	Lower	Upper
128	100		
129	3.3	3.0	4.6
127	4.2	3.4	5.0





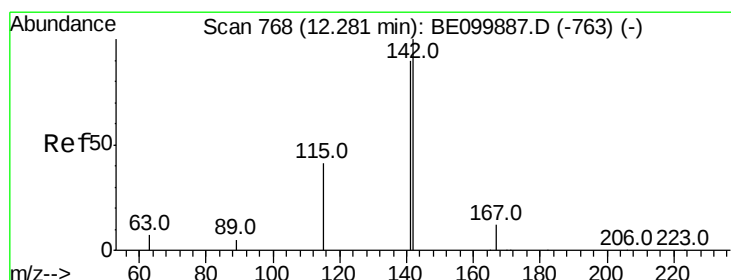
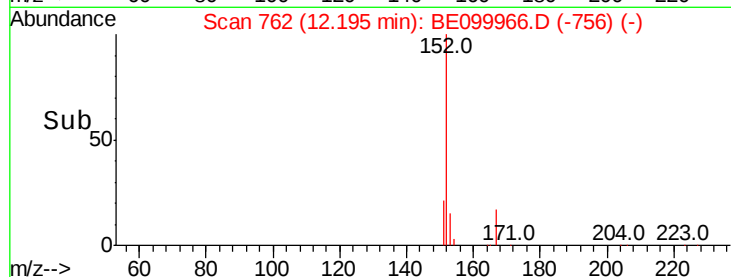
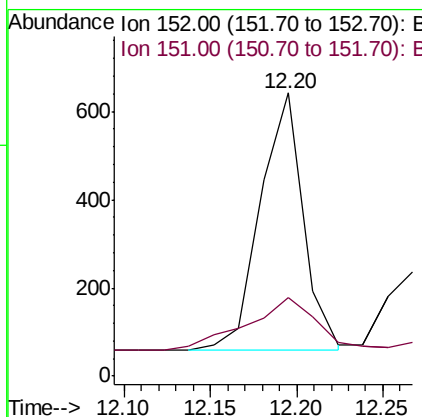
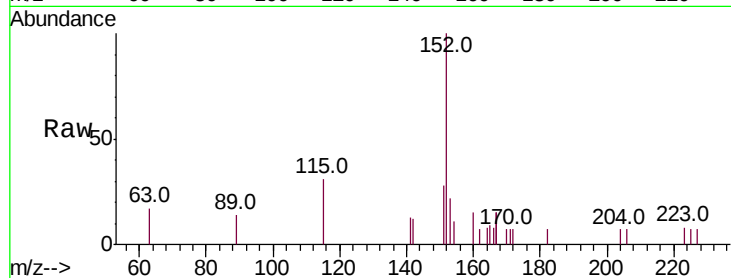
#11
2-Methylnaphthalene-d10
Concen: 0.147 ng
RT: 12.20 min Scan# 762
Delta R.T. -0.01 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Instrument :
BNA_E
ClientSampleId :
TW-01

Tot Ion	Ratio	Lower	Upper
152	100		
151	29.2	15.2	22.8#

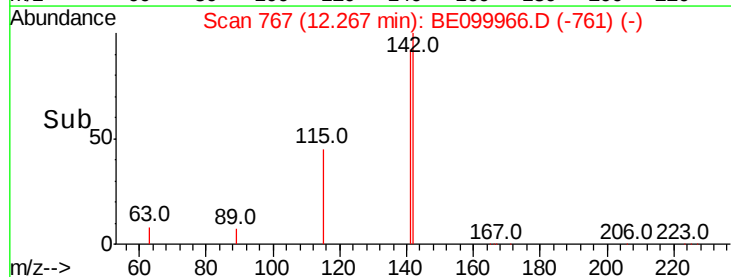
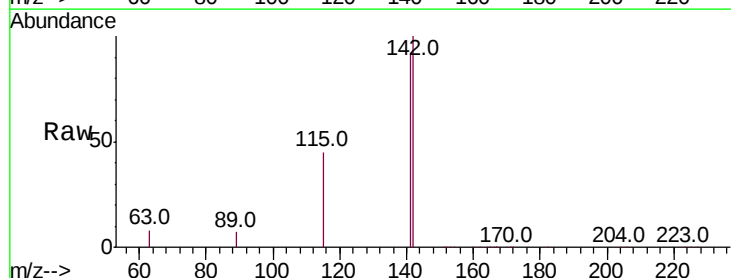
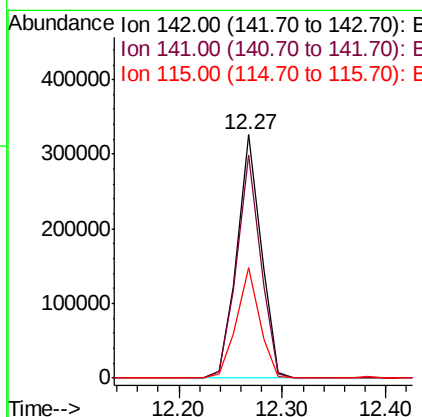
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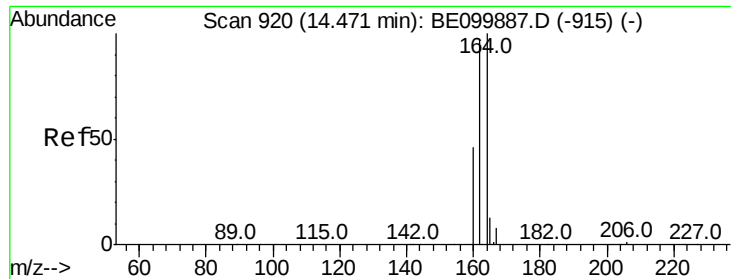
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#12
2-Methylnaphthalene
Concen: 76.350 ng
RT: 12.27 min Scan# 767
Delta R.T. -0.01 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.6	72.3	108.5
115	45.3	36.4	54.6





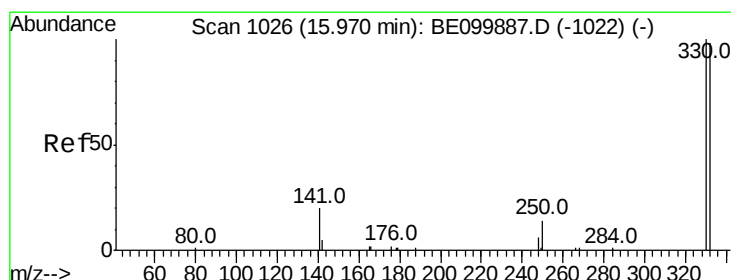
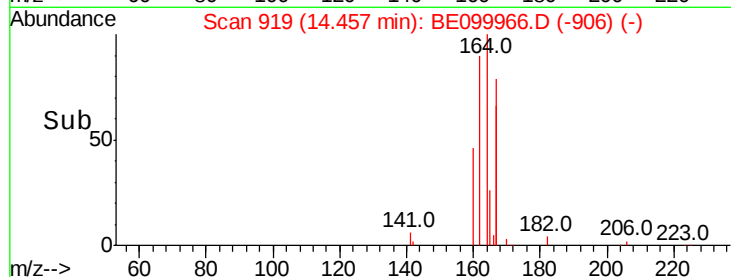
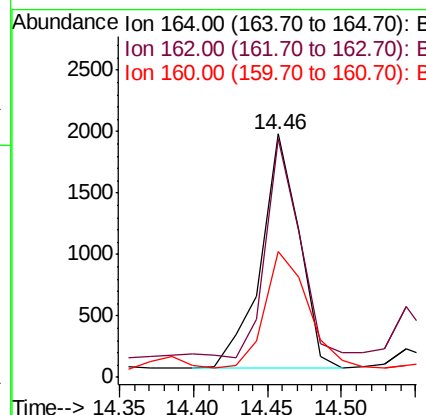
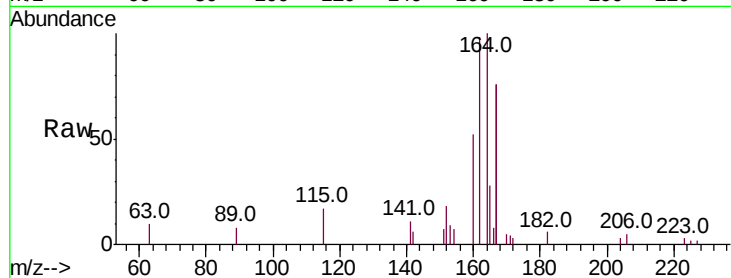
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.46 min Scan# 919
Delta R.T. -0.01 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Instrument :
BNA_E
ClientSampled :
TW-01

Tot Ion	Ratio	Lower	Upper
164	100		
162	98.1	77.8	116.8
160	51.9	38.2	57.4

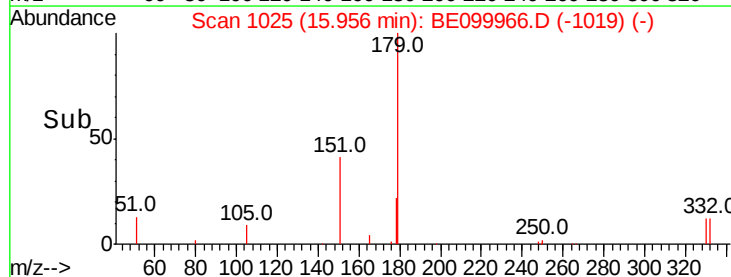
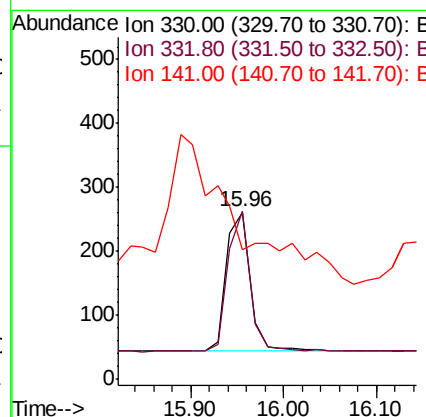
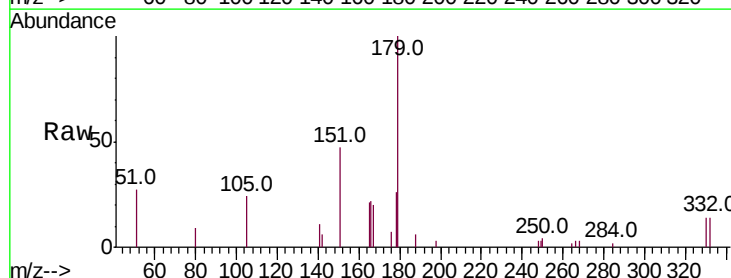
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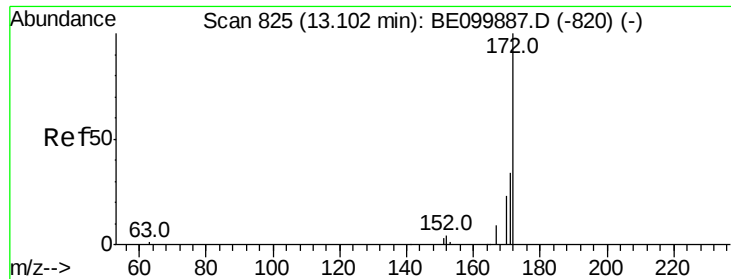
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#14
2,4,6-Tribromophenol
Concen: 0.152 ng
RT: 15.96 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.6	76.7	115.1
141	0.0	21.0	31.6#





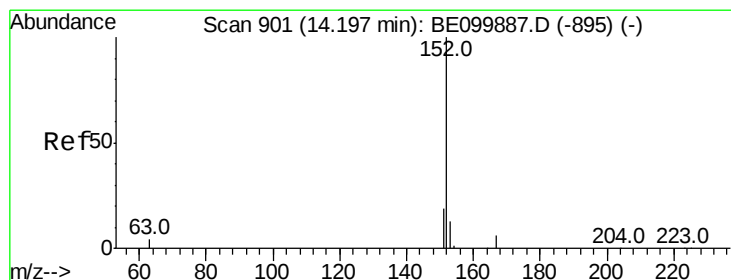
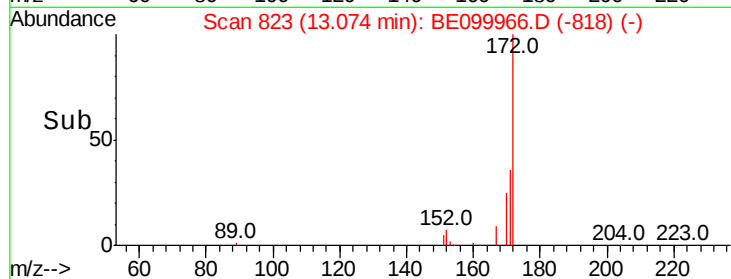
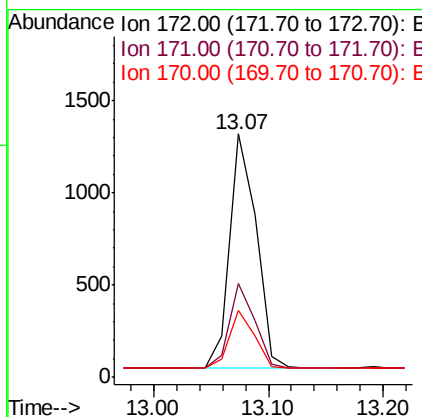
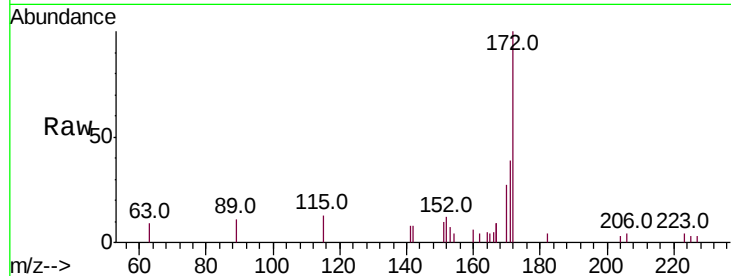
#15
2-Fluorobiphenyl
Concen: 0.156 ng
RT: 13.07 min Scan# 823
Delta R.T. -0.03 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Instrument :
BNA_E
ClientSampleId :
TW-01

Tot Ion	Ratio	Lower	Upper
172	100		
171	38.8	29.2	43.8
170	27.3	21.2	31.8

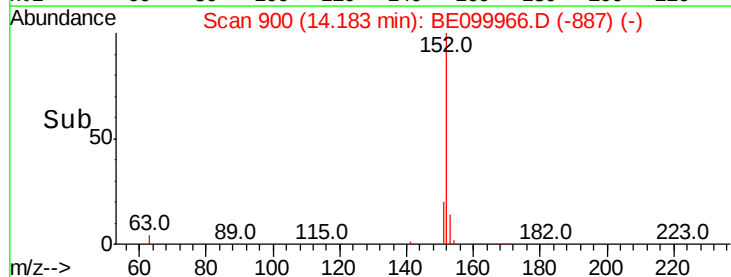
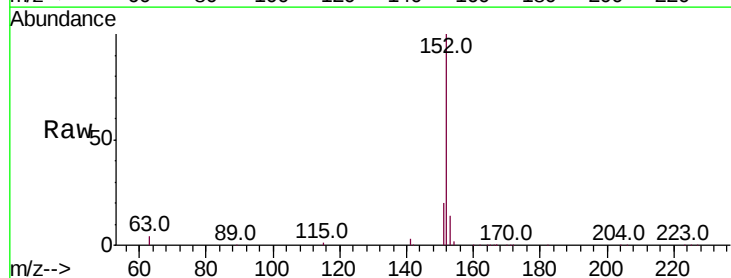
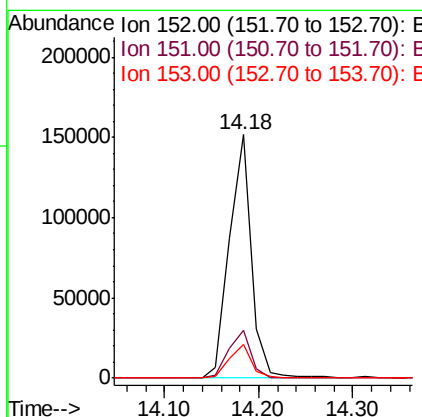
Manual Integrations
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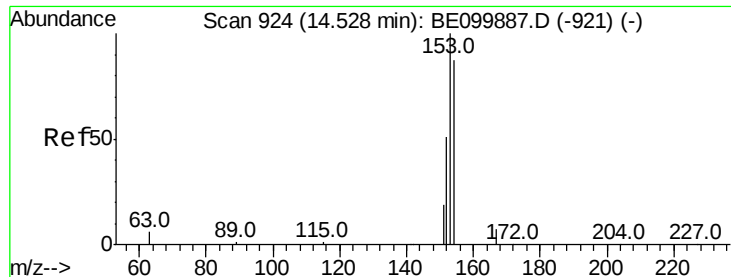
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#16
Acenaphthylene
Concen: 14.168 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.01 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.5	23.3
153	14.1	10.2	15.2





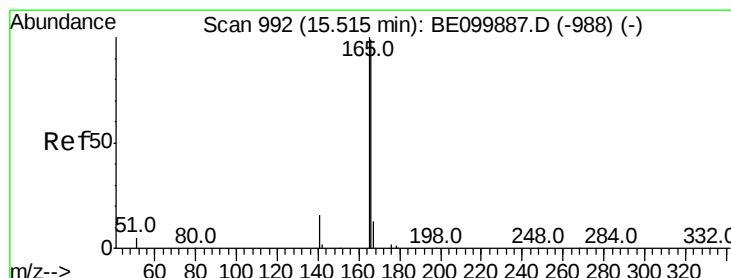
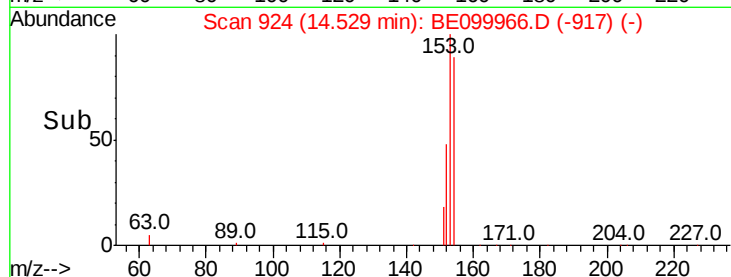
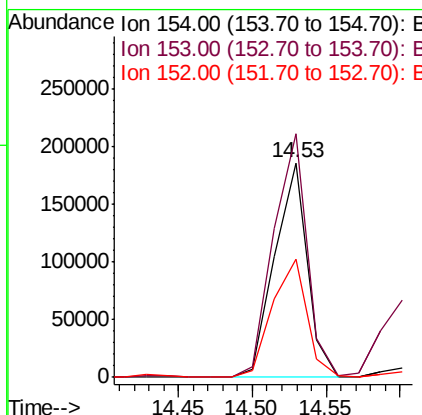
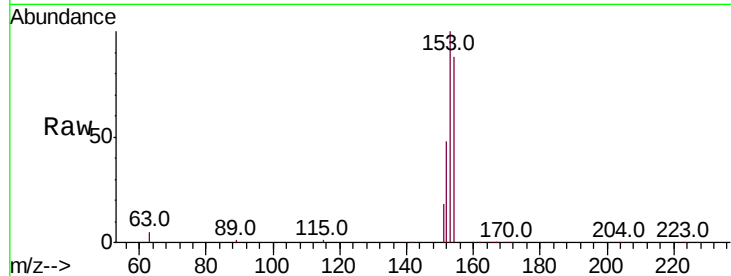
#17
Acenaphthene
Concen: 30.414 ng
RT: 14.53 min Scan# 924
Delta R.T. 0.00 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Instrument :
BNA_E
ClientSampleId :
TW-01

Tot Ion	Ratio	Lower	Upper
154	100		
153	116.4	93.1	139.7
152	57.7	47.0	70.4

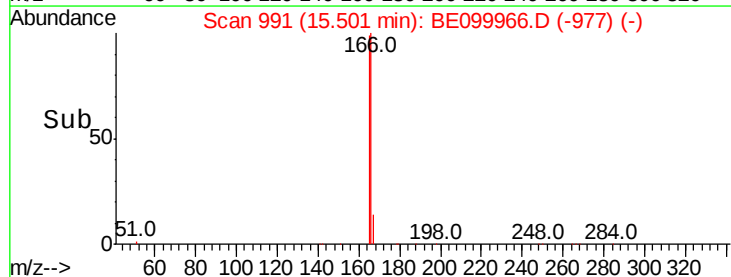
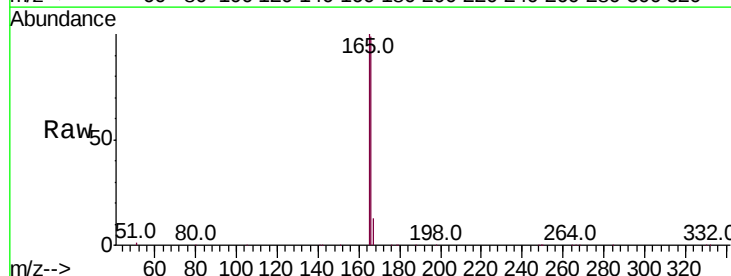
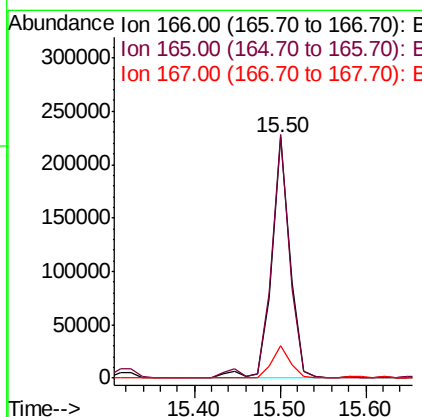
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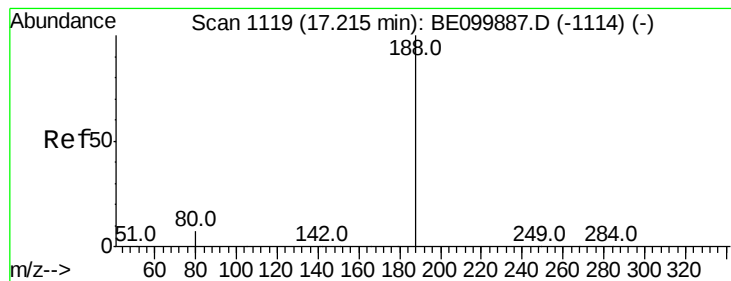
mohammad
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#18
Fluorene
Concen: 23.458 ng
RT: 15.50 min Scan# 991
Delta R.T. -0.01 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.6	81.8	122.8
167	14.1	11.2	16.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. -0.01 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Instrument :

BNA_E

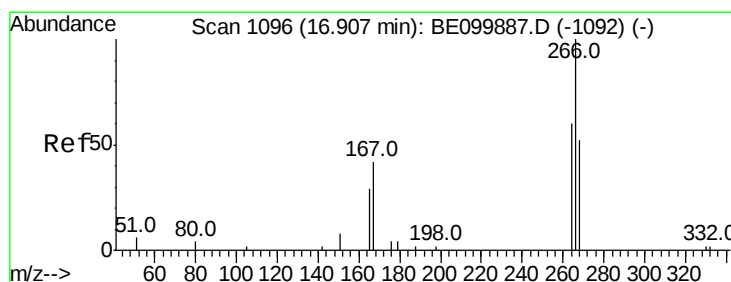
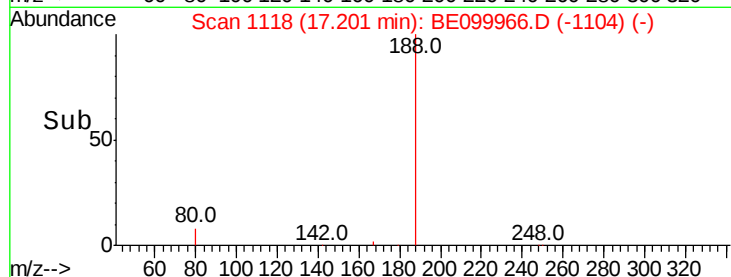
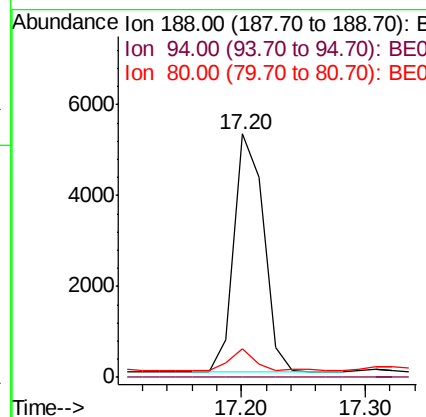
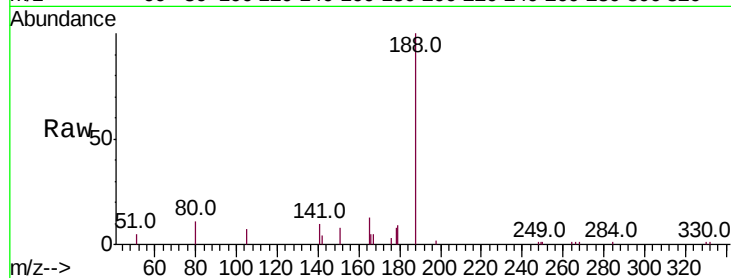
ClientSampleId :

TW-01

Tot Ion:	188	Resp:	8749
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.5	6.4	9.6#

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#22

Pentachlorophenol

Concen: 0.320 ng

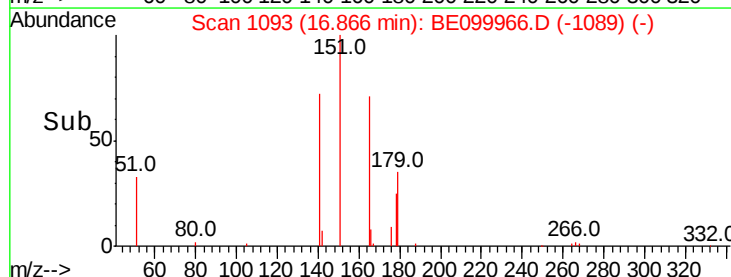
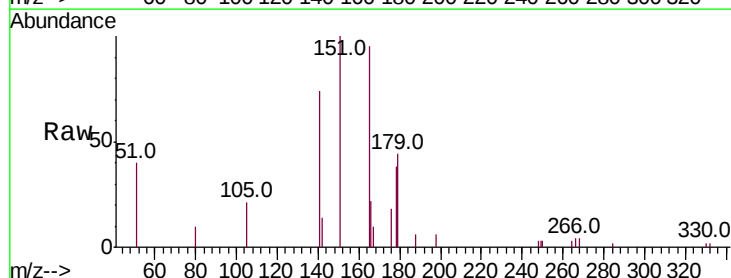
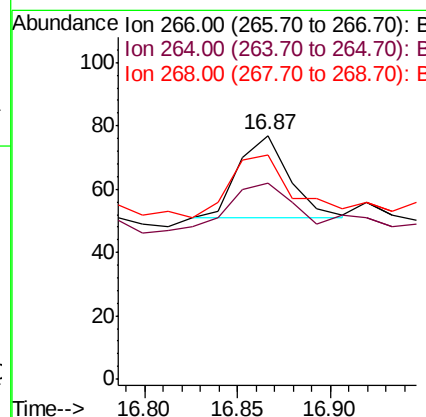
RT: 16.87 min Scan# 1093

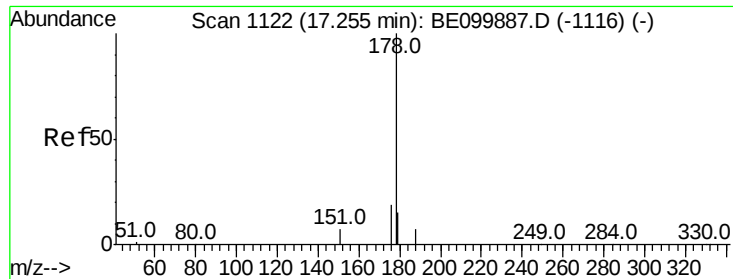
Delta R.T. -0.04 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Tgt Ion:	266	Resp:	50
Ion Ratio	Lower	Upper	
266	100		
264	80.5	62.2	93.2
268	92.2	65.5	98.3





#23

Phenanthrene

Concen: 31.498 ng

RT: 17.25 min Scan# 1122

Delta R.T. -0.00 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Instrument :

BNA_E

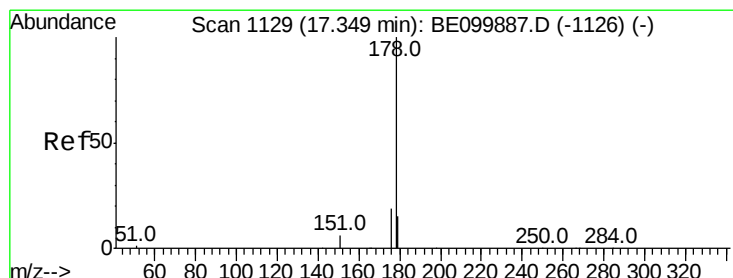
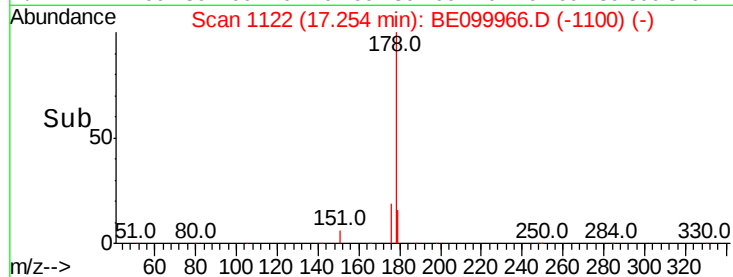
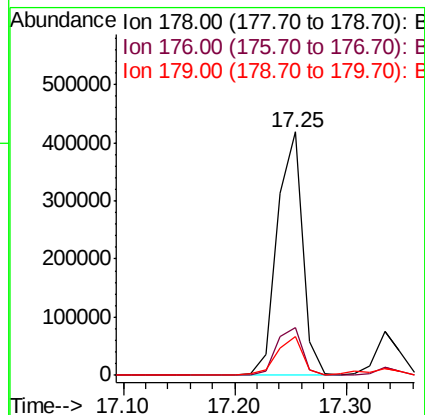
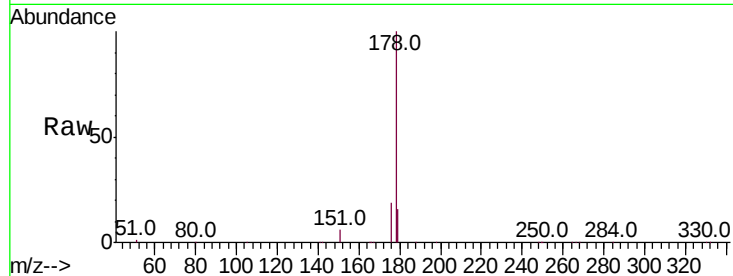
ClientSampled :

TW-01

Tot Ion:	178	Resp:	668691
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.8	23.8
179	16.4	12.4	18.6

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#24

Anthracene

Concen: 5.917 ng

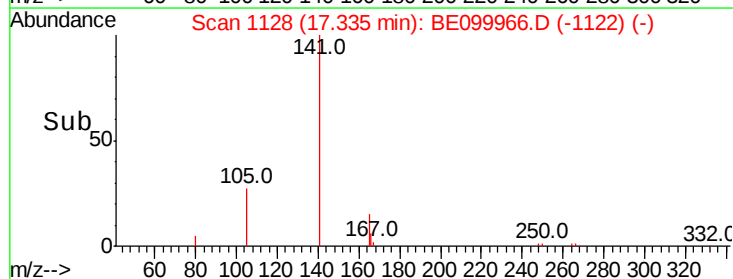
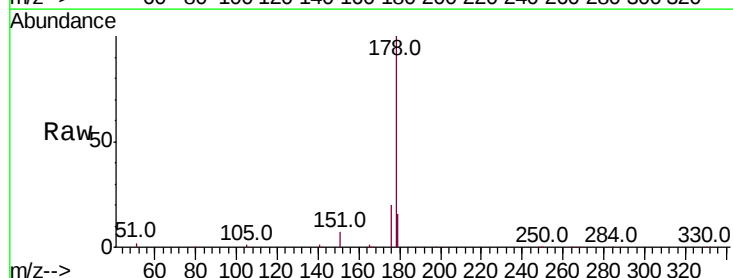
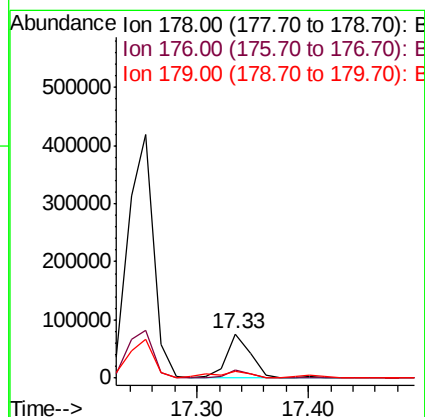
RT: 17.33 min Scan# 1128

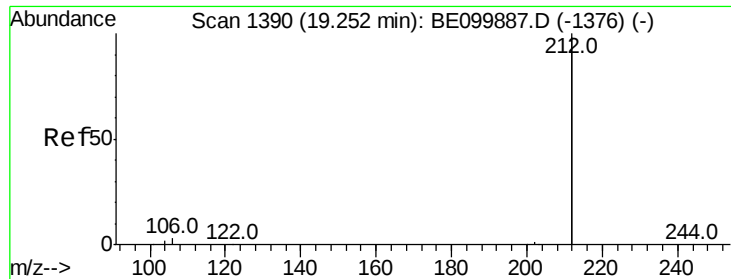
Delta R.T. -0.01 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Tgt Ion:	178	Resp:	115163
Ion Ratio	Lower	Upper	
178	100		
176	18.7	14.6	22.0
179	20.5	12.3	18.5#





#25

Fluoranthene-d10

Concen: 0.130 ng

RT: 19.24 min Scan# 1388

Delta R.T. -0.01 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Instrument :

BNA_E

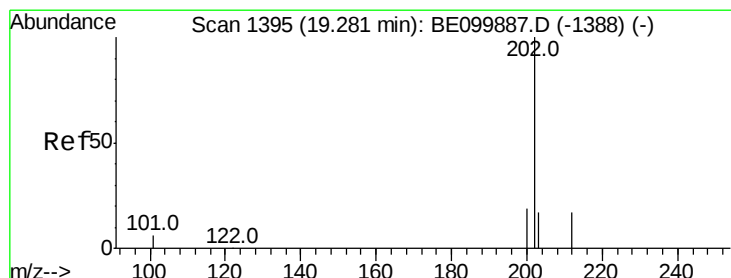
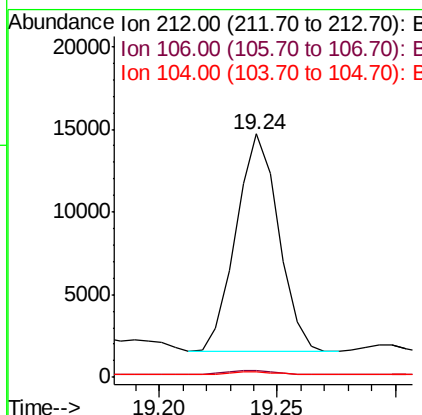
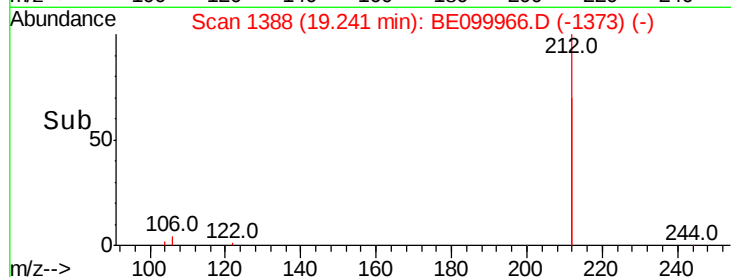
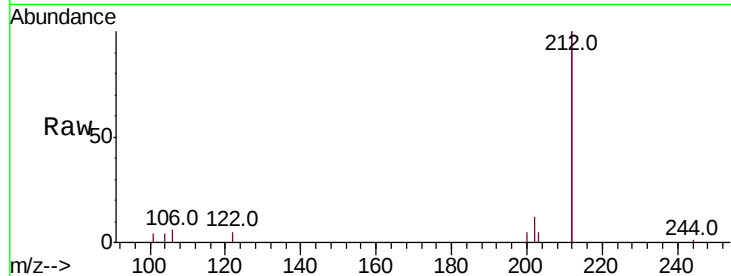
ClientSampleId :

TW-01

Tot Ion:	212	Resp:	16548
Ion Ratio	Lower	Upper	
212	100		
106	2.6	1.4	2.2#
104	2.0	0.9	1.3#

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#26

Fluoranthene

Concen: 11.201 ng

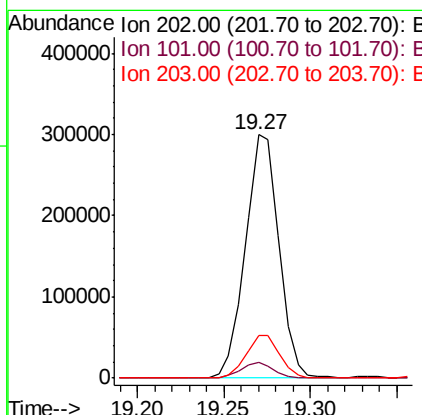
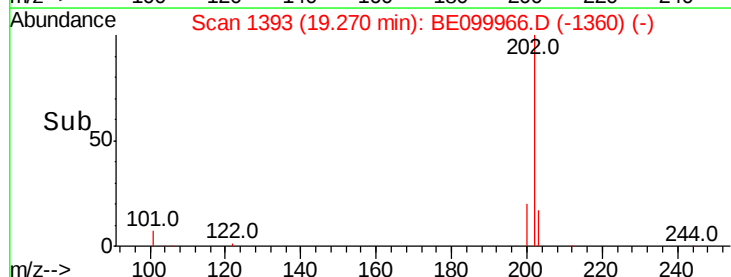
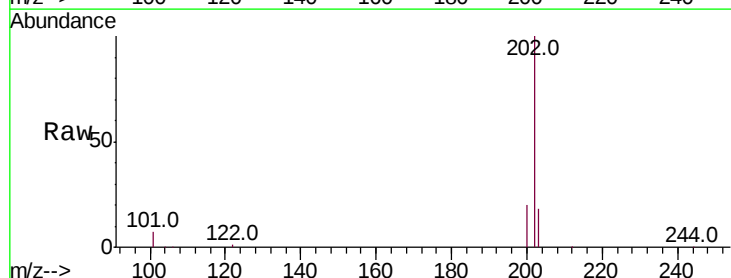
RT: 19.27 min Scan# 1393

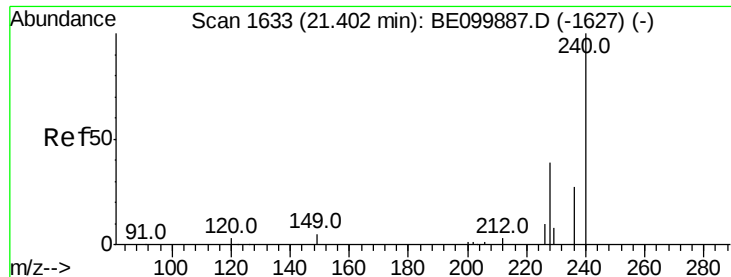
Delta R.T. -0.01 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Tgt Ion:	202	Resp:	404173
Ion Ratio	Lower	Upper	
202	100		
101	6.3	5.4	8.0
203	17.6	13.2	19.8





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.39 min Scan# 1632

Delta R.T. -0.01 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Instrument :

BNA_E

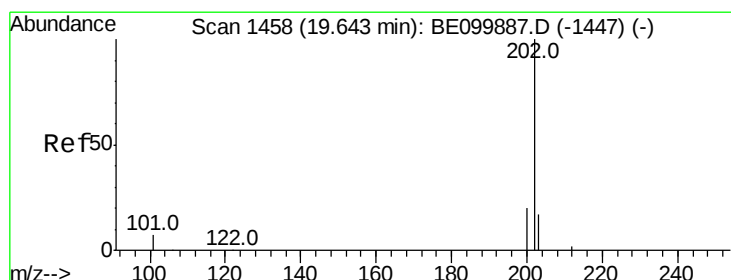
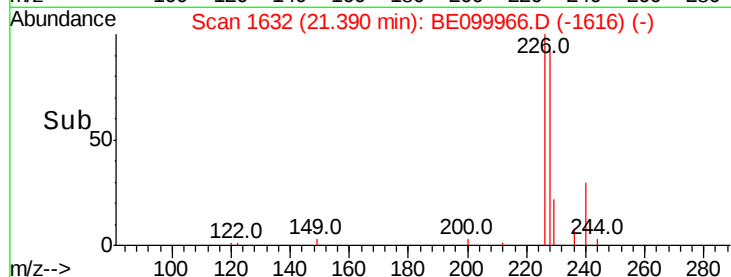
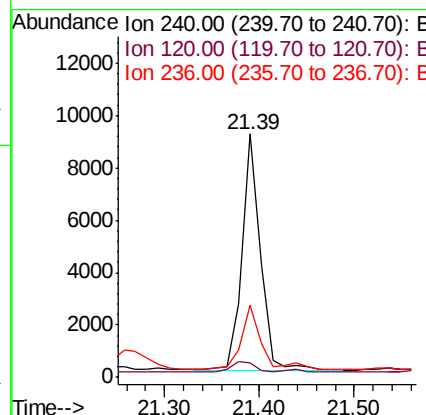
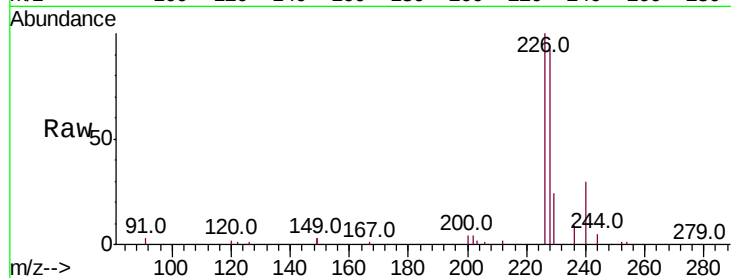
ClientSampleId :

TW-01

Tot Ion	Ratio	Lower	Upper
240	100		
120	6.0	3.8	5.6#
236	29.8	22.0	33.0

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#28

Pyrene

Concen: 10.925 ng

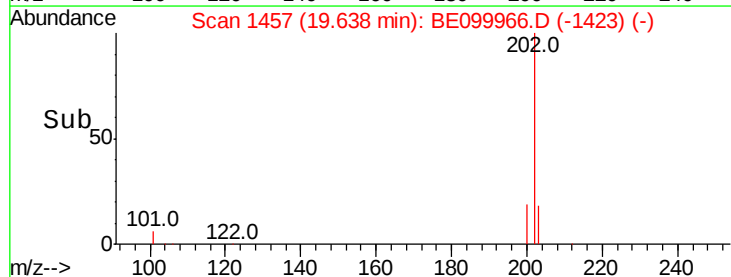
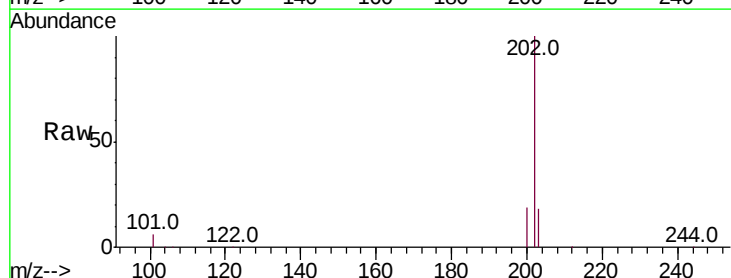
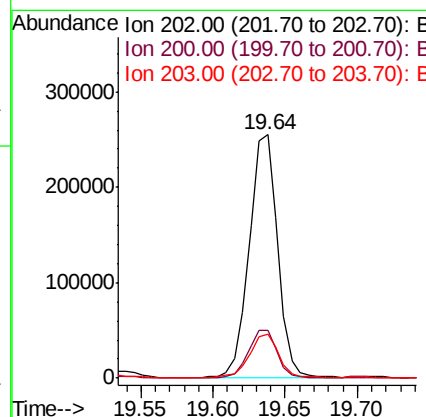
RT: 19.64 min Scan# 1457

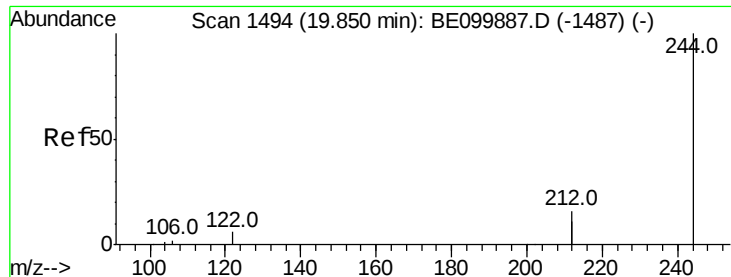
Delta R.T. -0.01 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.7	15.5	23.3
203	18.8	14.0	21.0





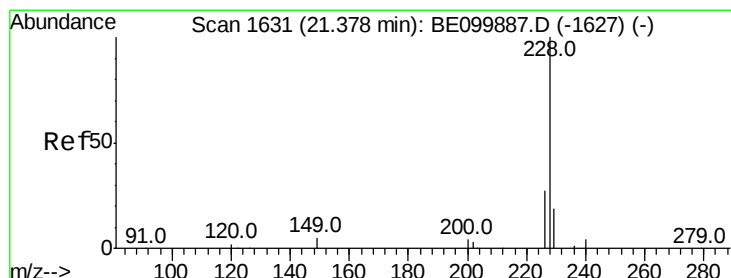
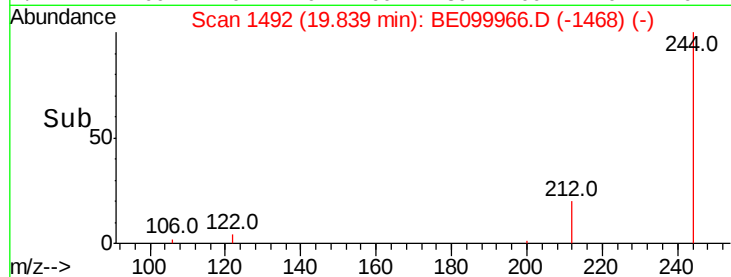
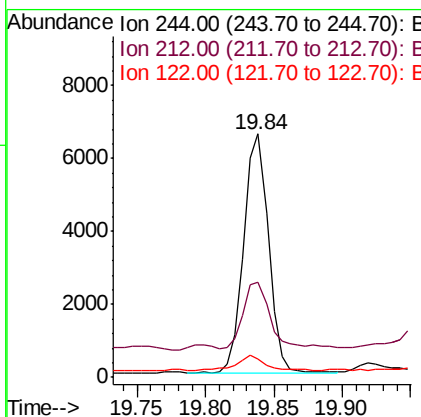
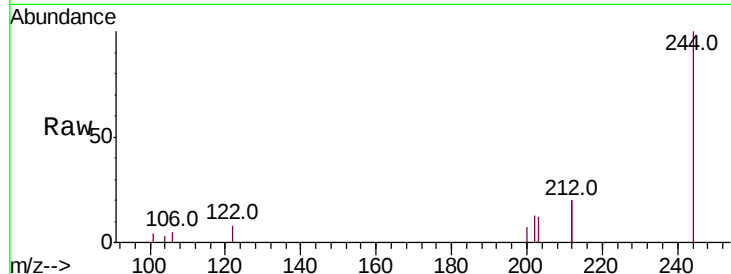
#29
 Terphenyl-d14
 Concen: 0.374 ng
 RT: 19.84 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: BE099966.D
 Acq: 12 Jun 2019 21:03

Instrument :
 BNA_E
 ClientSampleId :
 TW-01

Tot Ion	Ratio	Lower	Upper
244	100		
212	39.3	25.7	38.5#
122	7.6	5.5	8.3

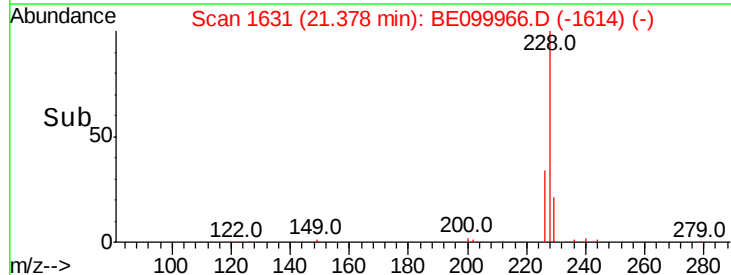
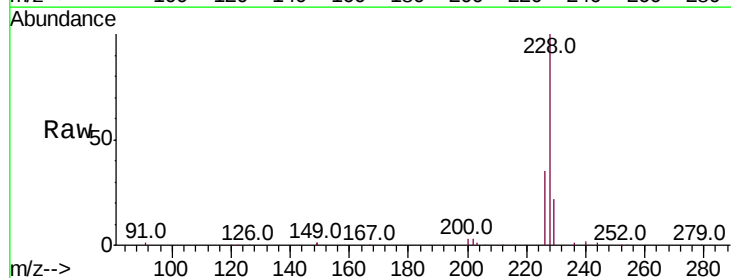
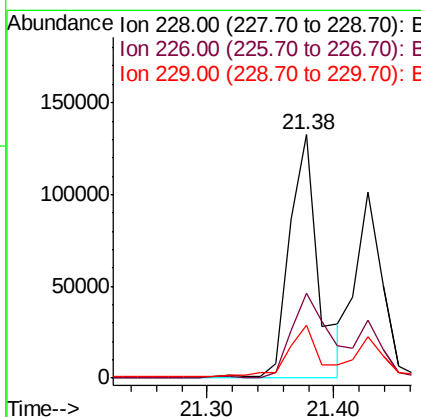
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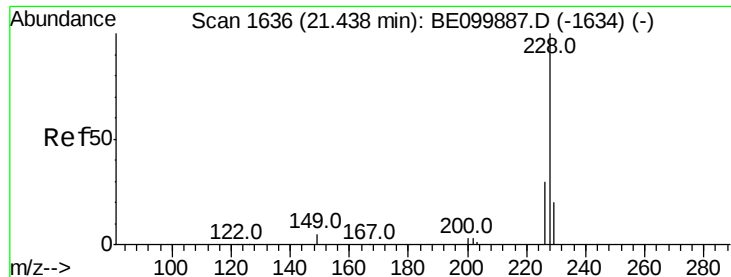
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#30
 Benzo(a)anthracene
 Concen: 5.774 ng m
 RT: 21.38 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: BE099966.D
 Acq: 12 Jun 2019 21:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.9	22.5	33.7#
229	21.8	15.9	23.9





#31

Chrysene

Concen: 3.886 ng

RT: 21.43 min Scan# 1635

Delta R.T. -0.01 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Instrument :

BNA_E

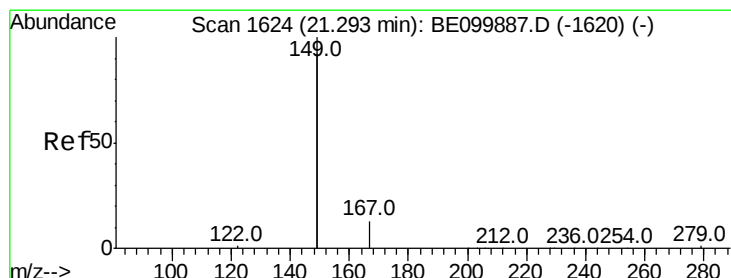
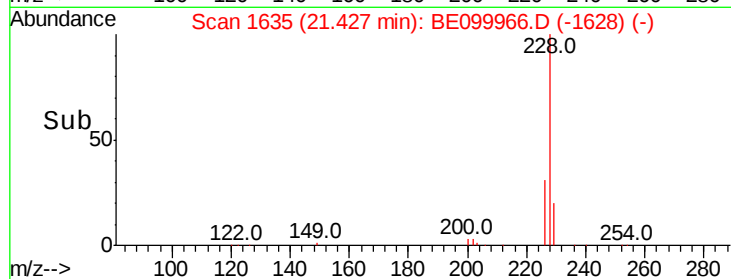
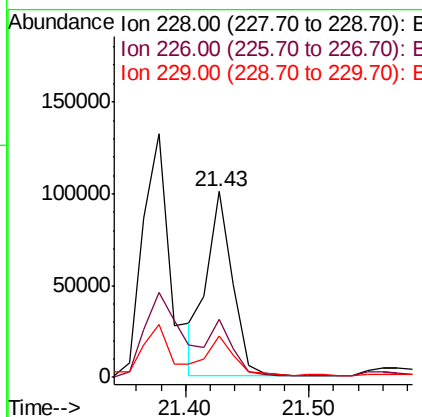
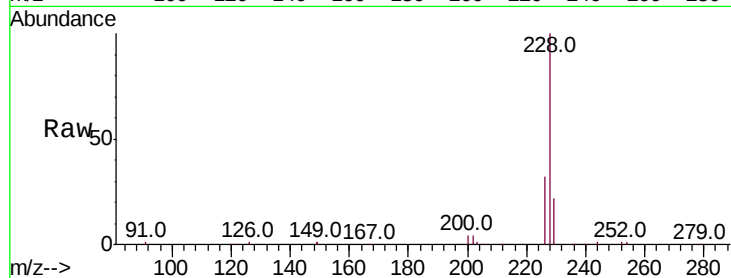
ClientSampled :

TW-01

Tot Ion:	228	Resp:	146104
Ion Ratio	Lower	Upper	
228	100		
226	31.6	24.1	36.1
229	22.2	16.1	24.1

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#32

Bis(2-ethylhexyl)phthalate

Concen: 0.135 ng

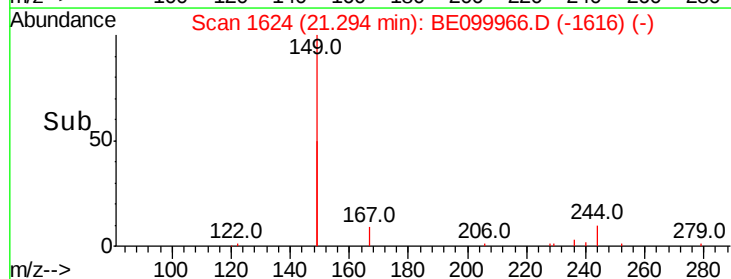
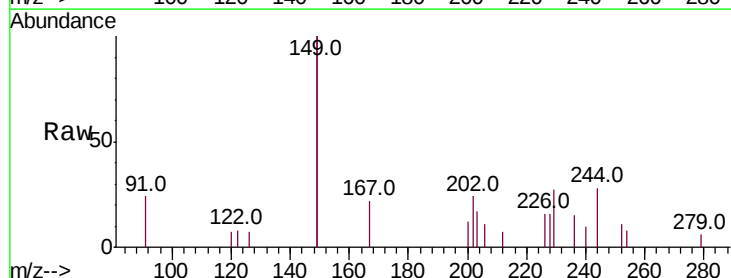
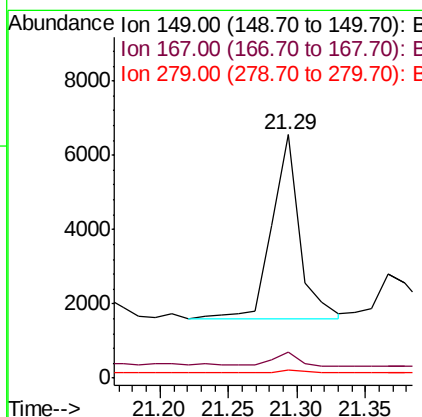
RT: 21.29 min Scan# 1624

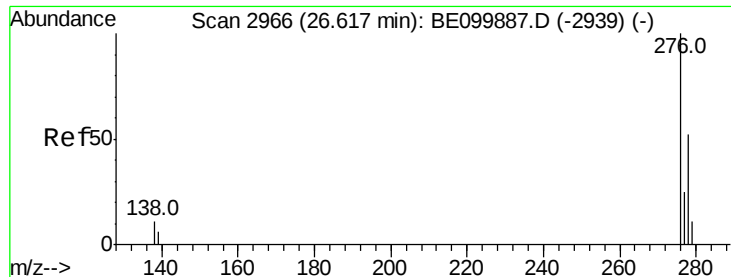
Delta R.T. 0.00 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Tgt Ion:	149	Resp:	7030
Ion Ratio	Lower	Upper	
149	100		
167	7.7	5.9	8.9
279	1.6	1.2	1.8





#33

Indeno(1,2,3-cd)pyrene

Concen: 3.533 ng

RT: 26.59 min Scan# 2958

Delta R.T. -0.03 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Instrument :

BNA_E

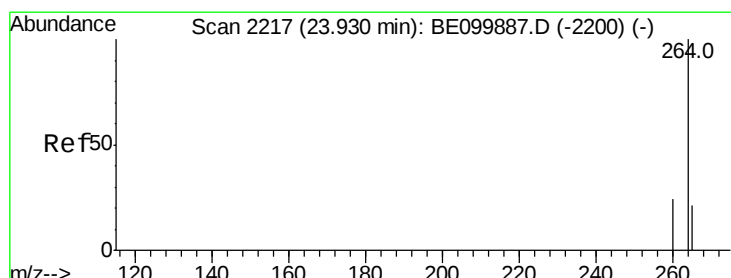
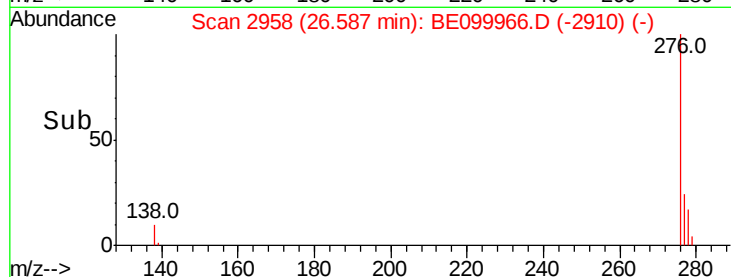
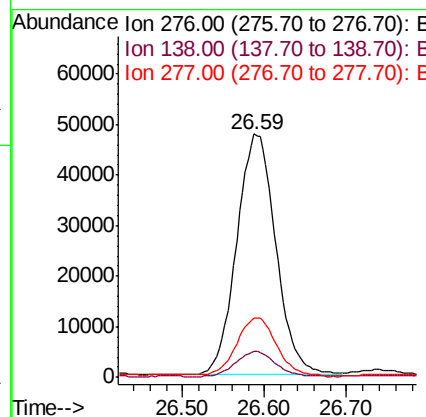
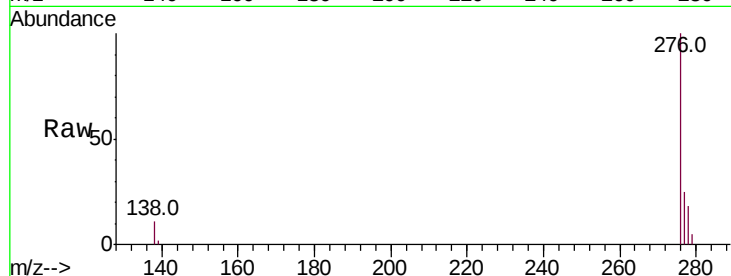
ClientSampleId :

TW-01

Tot Ion:	276	Resp:	157510
Ion Ratio	Lower	Upper	
276	100		
138	10.3	10.1	15.1
277	24.2	19.1	28.7

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#34

Perylene-d12

Concen: 0.400 ng

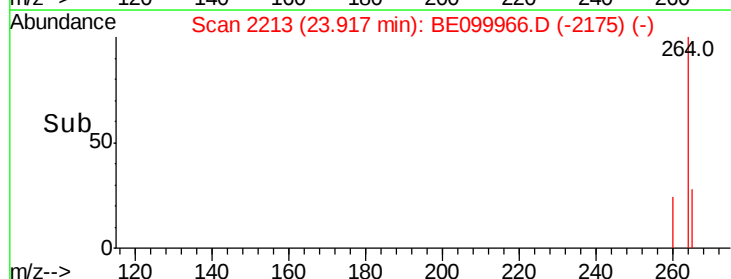
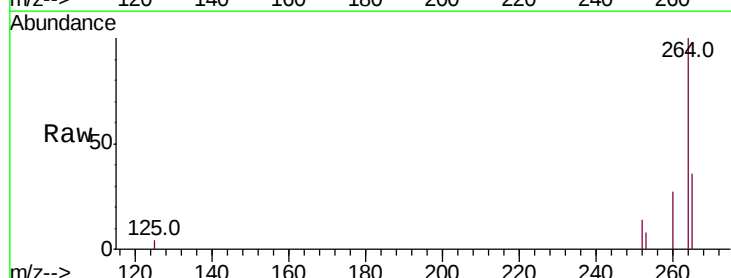
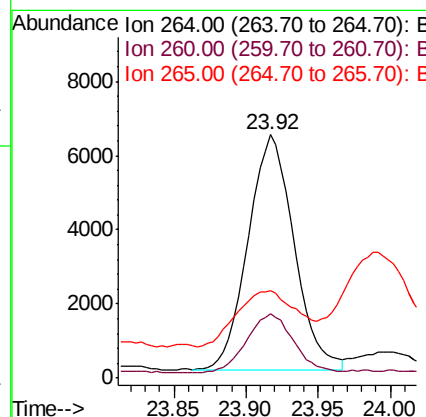
RT: 23.92 min Scan# 2213

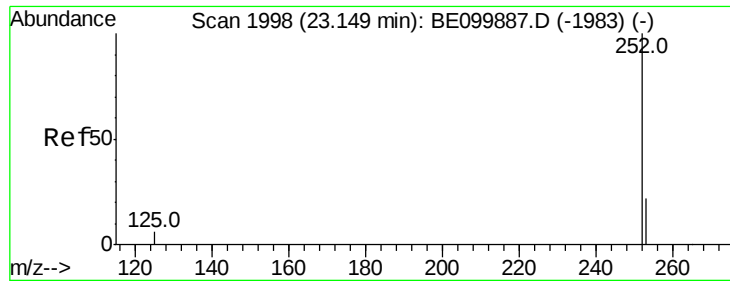
Delta R.T. -0.01 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Tgt Ion:	264	Resp:	13824
Ion Ratio	Lower	Upper	
264	100		
260	26.6	20.2	30.2
265	35.7	22.0	33.0#





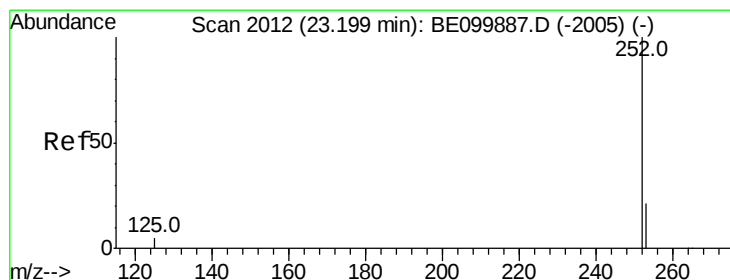
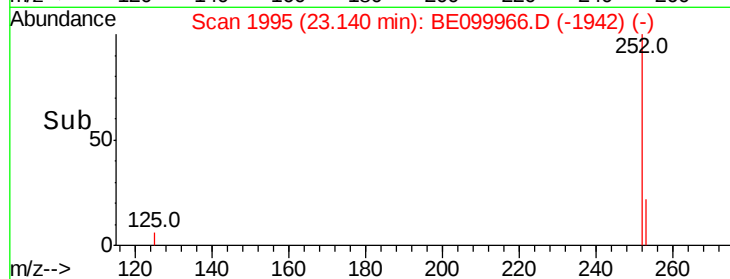
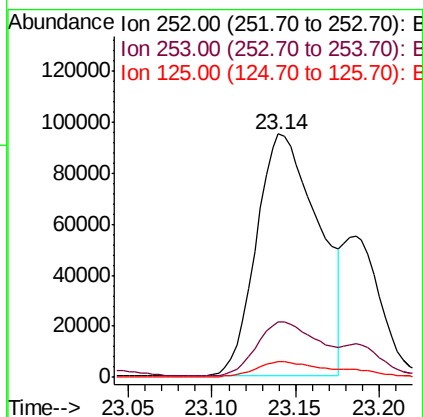
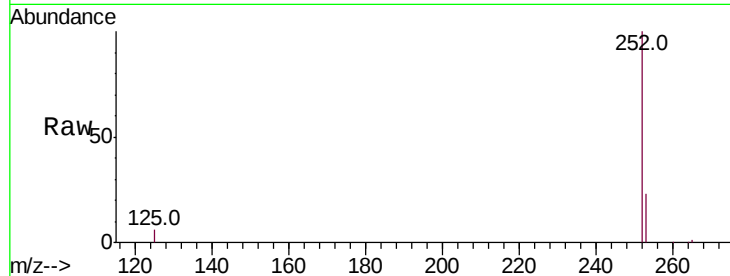
#35
Benzo(b)fluoranthene
Concen: 6.346 ng
RT: 23.14 min Scan# 1995
Delta R.T. -0.01 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Instrument :
BNA_E
ClientSampleId :
TW-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.7	28.1
125	6.3	5.7	8.5

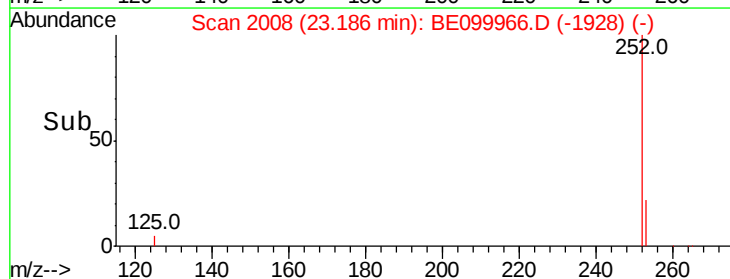
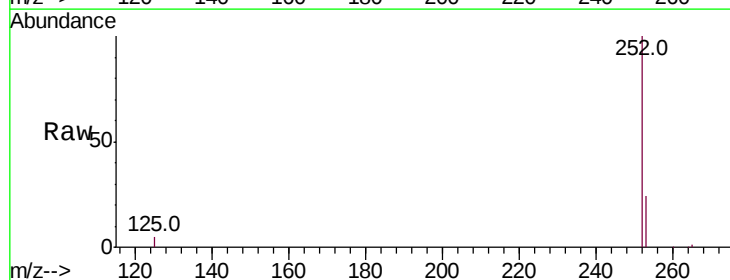
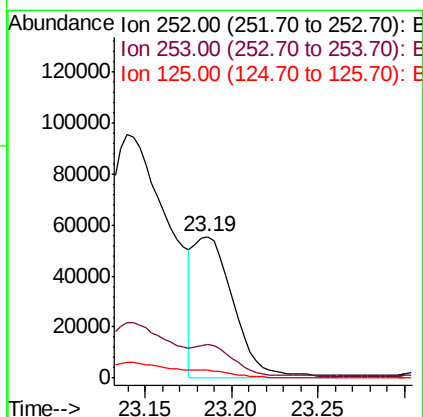
Manual Integrations
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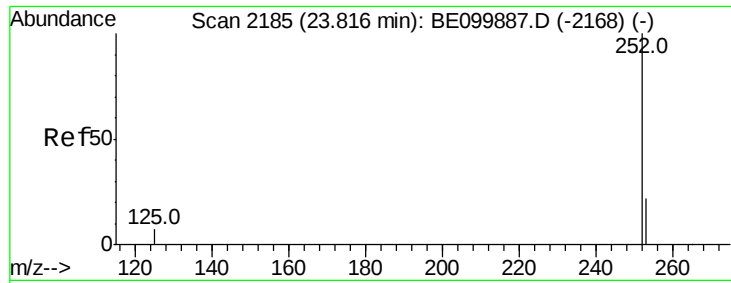
mohammad
6/14/2019 8:45:03 AM



#36
Benzo(k)fluoranthene
Concen: 2.204 ng m
RT: 23.19 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.6	28.0
125	5.4	5.4	8.0





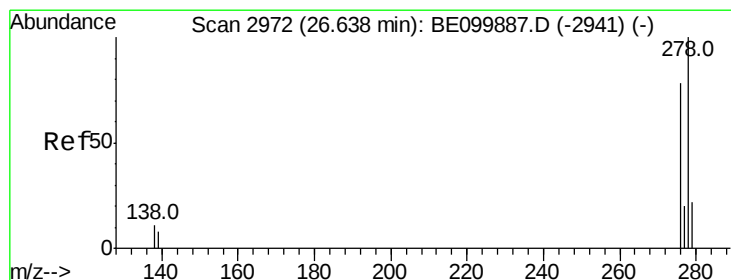
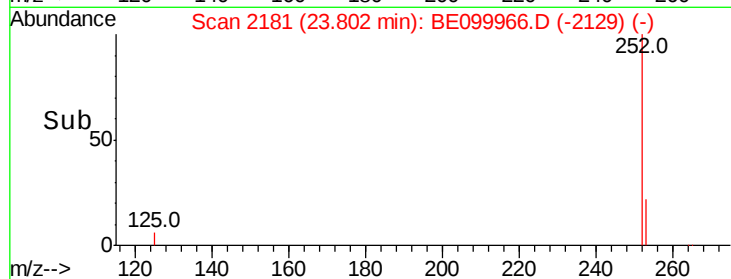
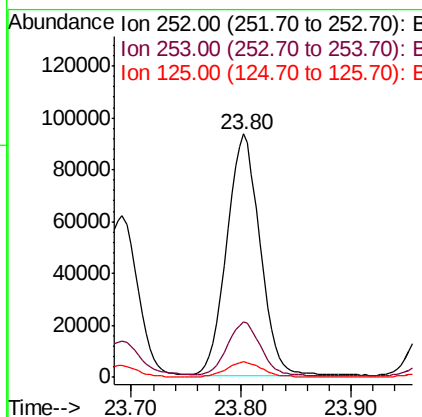
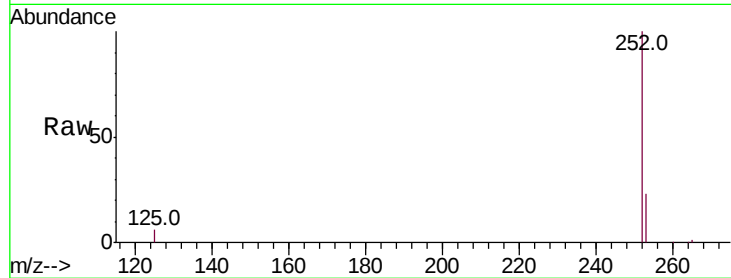
#37
Benzo(a)pyrene
Concen: 5.148 ng/ml
RT: 23.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Instrument :
BNA_E
ClientSampleId :
TW-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	19.6	29.4
125	6.3	6.6	10.0

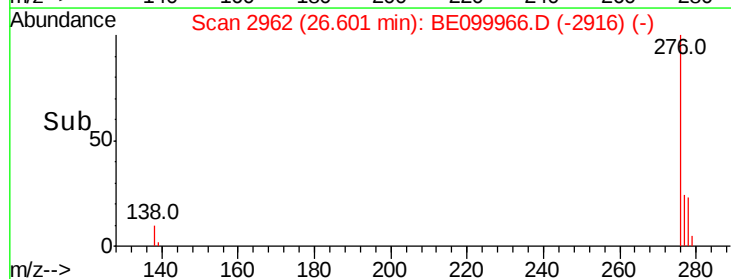
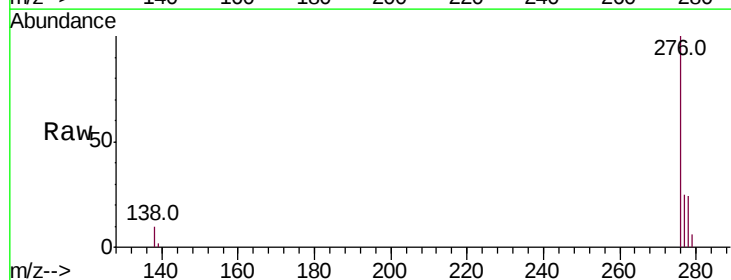
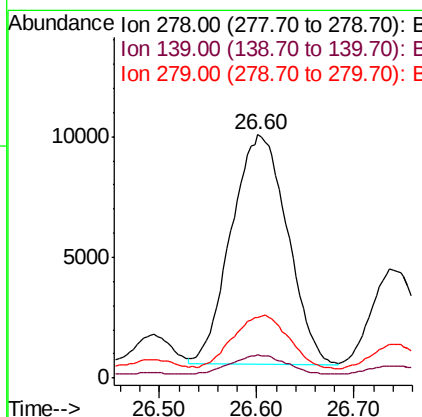
Manual Integrations
APPROVED

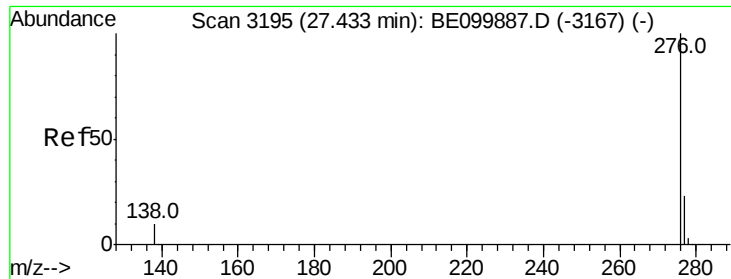
mohammad
6/14/2019 8:45:03 AM



#38
Dibenzo(a,h)anthracene
Concen: 0.990 ng
RT: 26.60 min Scan# 2962
Delta R.T. -0.04 min
Lab File: BE099966.D
Acq: 12 Jun 2019 21:03

Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.4	7.8	11.8
279	25.0	20.0	30.0





#39

Benzo(a,h,i)perylene

Concen: 4.592 ng

RT: 27.42 min Scan# 3191

Delta R.T. -0.02 min

Lab File: BE099966.D

Acq: 12 Jun 2019 21:03

Instrument :

BNA_E

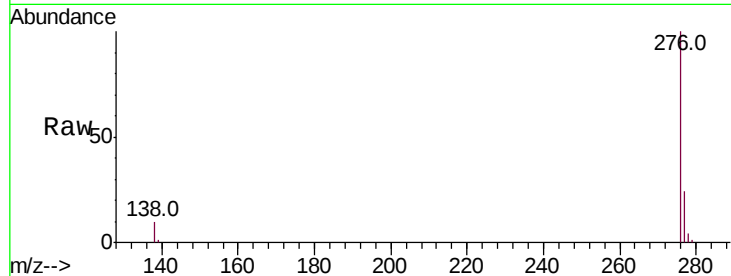
ClientSampleId :

TW-01

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.5	29.3
138	10.4	9.5	14.3

Manual Integrations
APPROVED

mohammad
6/14/2019 8:45:03 AM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

