

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050619\
 Data File : BE099549.D
 Acq On : 6 May 2019 13:03
 Operator : JU/SJ
 Sample : K2589-14DL 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B188-042419DL

Manual Integrations
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 5/7/2019 3:11:06 PM

Quant Time: May 07 12:34:19 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	7.83	152	1808	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	6373	0.40	ng	0.00
13) Acenaphthene-d10	14.50	164	4568	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	12628	0.40	ng	0.00
27) Chrysene-d12	21.43	240	18561	0.40	ng	-0.01
34) Perylene-d12	23.99	264	22744	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.38	112	411	0.08	ng	0.00
5) Phenol-d6	6.99	99	545	0.08	ng	0.00
8) Nitrobenzene-d5	8.98	82	462	0.08	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	783	0.07	ng	-0.01
14) 2,4,6-Tribromophenol	15.98	330	227	0.08	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	1114	0.06	ng	0.00
25) Fluoranthene-d10	19.28	212	10407	0.06	ng	0.00
29) Terphenyl-d14	19.87	244	2359	0.07	ng	0.00

Target Compounds				Qvalue		
9) Naphthalene	10.68	128	12612	0.182	ng	98
12) 2-Methylnaphthalene	12.31	142	1666	0.138	ng	95
16) Acenaphthylene	14.21	152	1380	0.062	ng	# 86
17) Acenaphthene	14.56	154	4584	0.359	ng	99
18) Fluorene	15.54	166	5834	0.310	ng	# 97
23) Phenanthrene	17.28	178	123515	3.791	ng	99
24) Anthracene	17.38	178	22459	0.723	ng	# 93
26) Fluoranthene	19.31	202	162338	3.326	ng	99
28) Pyrene	19.67	202	143493	2.966	ng	# 95
30) Benzo(a)anthracene	21.41	228	90995	1.539	ng	99
31) Chrysene	21.46	228	78516	1.357	ng	96
33) Indeno(1,2,3-cd)pyrene	26.69	276	38181	0.558	ng	# 97
35) Benzo(b)fluoranthene	23.20	252	82148	1.253	ng	98
36) Benzo(k)fluoranthene	23.25	252	32532m	0.514	ng	
37) Benzo(a)pyrene	23.87	252	63202	1.019	ng	99
38) Dibenzo(a,h)anthracene	26.72	278	10626	0.168	ng	# 81
39) Benzo(a,h,i)perylene	27.53	276	35370	0.557	ng	97

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

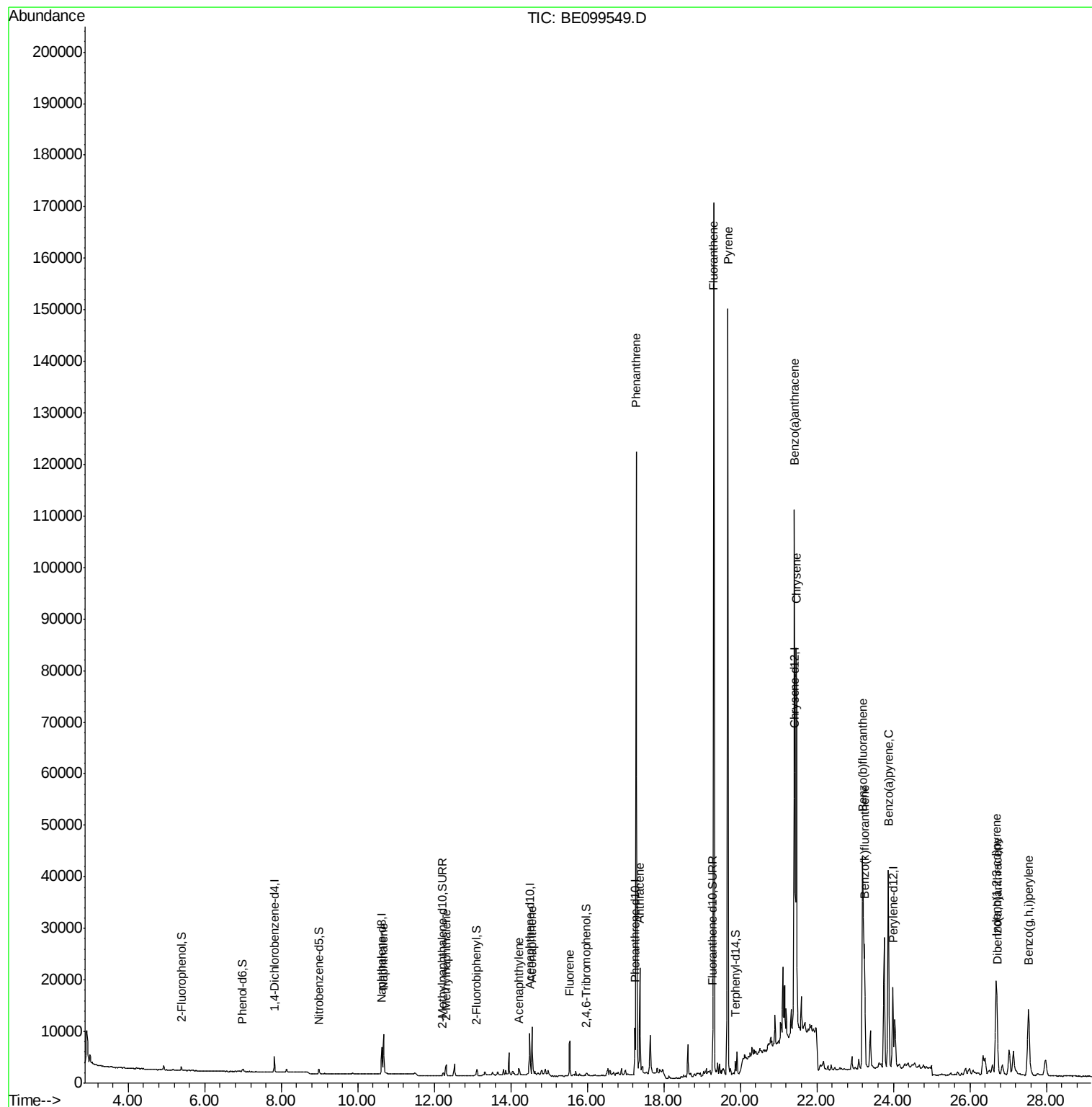
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050619\
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ALS Vial : 3 Sample Multiplier: 1

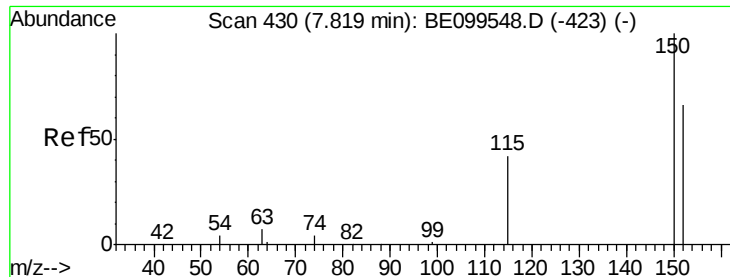
Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

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Quant Time: May 07 12:34:19 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





#1

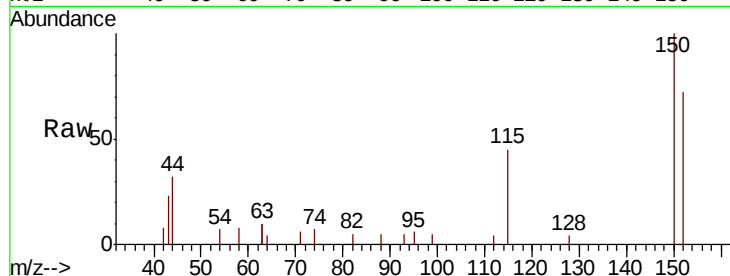
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.83 min Scan# 431
Delta R.T. 0.01 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	138.2	104.8	157.2
115	62.7	46.6	69.8

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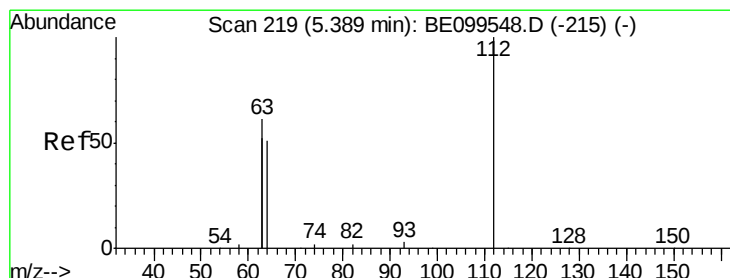
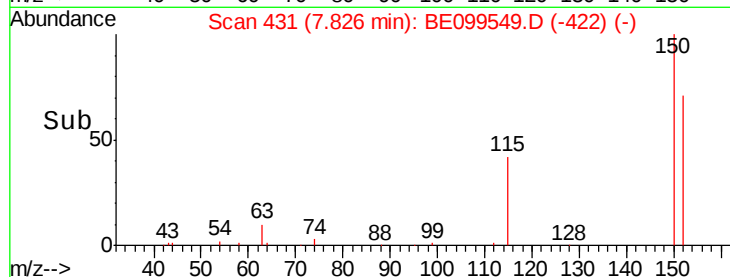
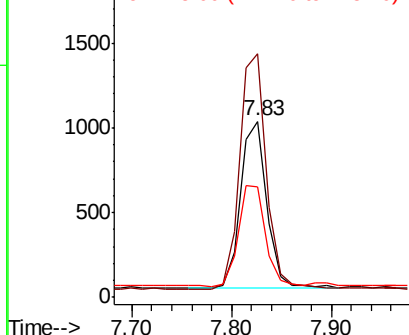


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

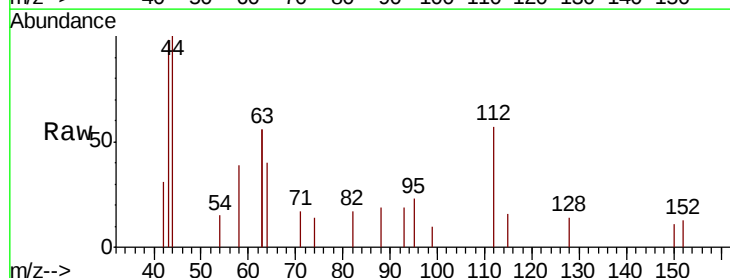
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.082 ng
RT: 5.38 min Scan# 219
Delta R.T. -0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.8	47.4	71.0
63	123.8	104.3	156.5

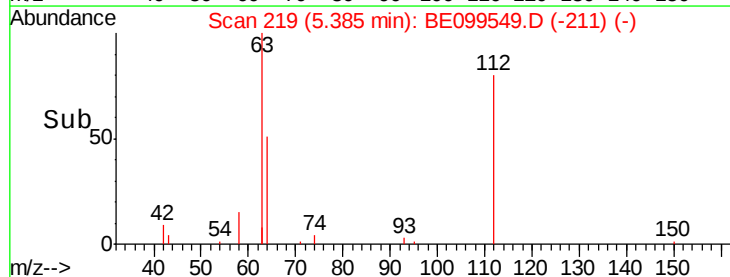
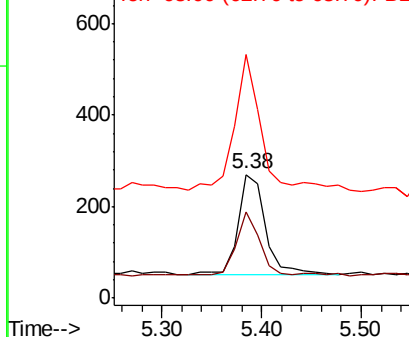


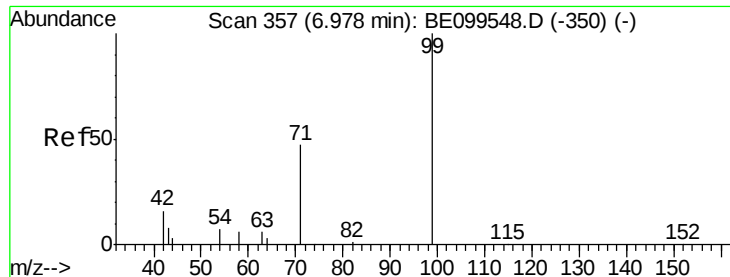
Abundance

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: 0.082 ng

RT: 6.99 min Scan# 358

Delta R.T. 0.01 min

Lab File: BE099549.D

Acq: 6 May 2019 13:03

Instrument :

BNA_E

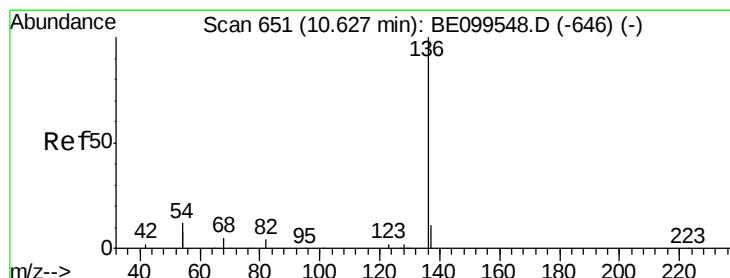
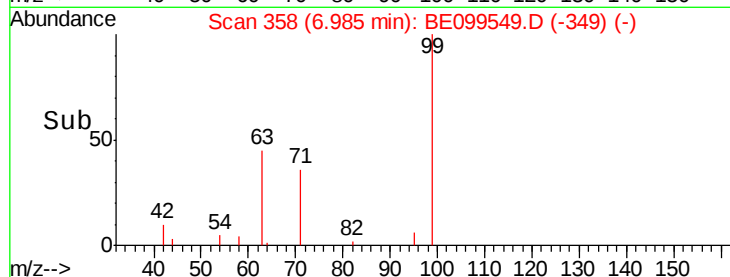
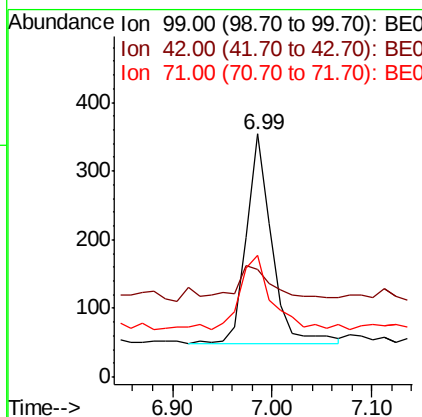
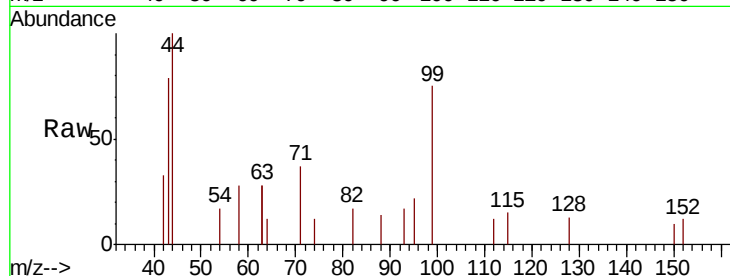
ClientSampleId :

PST-001-B188-042419DL

Tot Ion:	99	Resp:	545
Ion	Ratio	Lower	Upper
99	100		
42	21.3	14.9	22.3
71	40.4	33.0	49.6

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#7

Naphthalene-d8

Concen: 0.400 ng

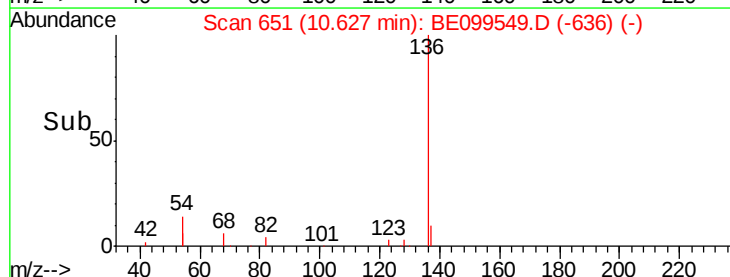
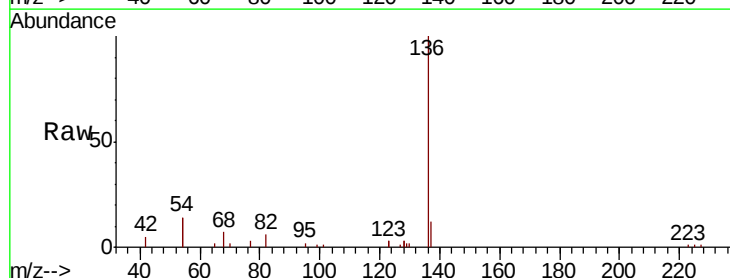
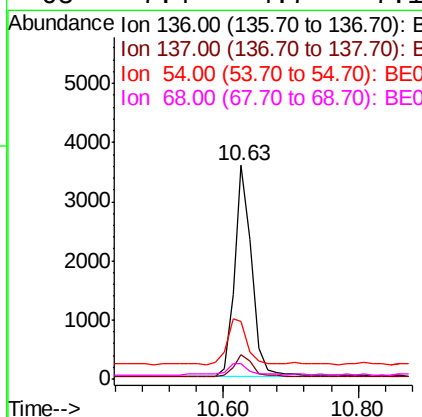
RT: 10.63 min Scan# 651

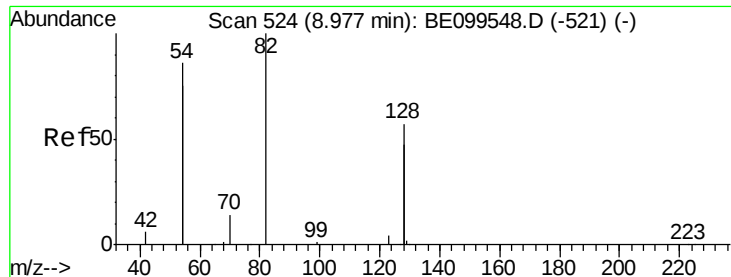
Delta R.T. 0.00 min

Lab File: BE099549.D

Acq: 6 May 2019 13:03

Tgt Ion:	136	Resp:	6373
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.8	14.8
54	27.3	18.5	27.7
68	7.4	4.7	7.1#





#8

Nitrobenzene-d5

Concen: 0.077 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.00 min

Lab File: BE099549.D

Acq: 6 May 2019 13:03

Instrument :

BNA_E

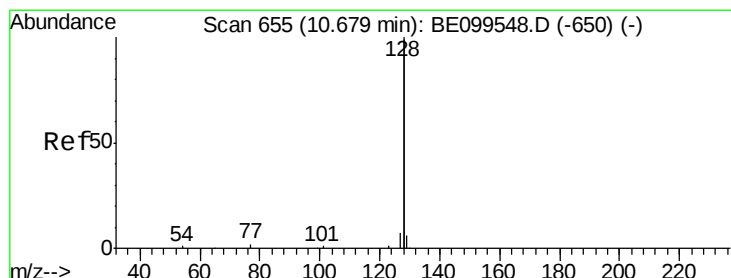
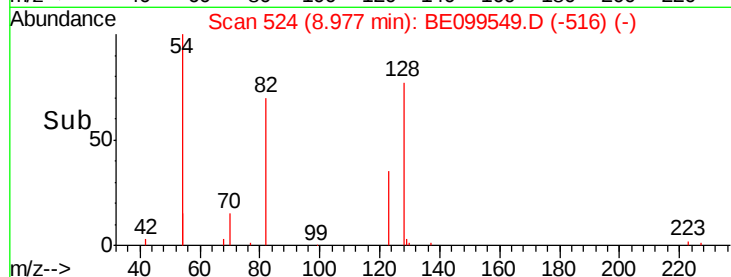
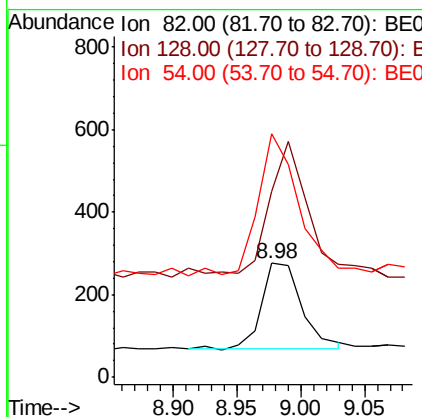
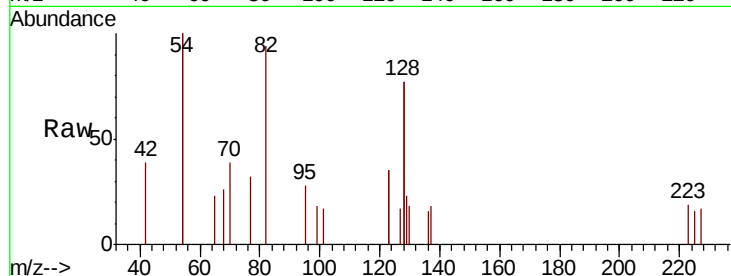
ClientSampleId :

PST-001-B188-042419DL

Tot Ion:	82	Resp:	462
Ion	Ratio	Lower	Upper
82	100		
128	163.8	107.0	160.4#
54	213.8	113.1	169.7#

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#9

Naphthalene

Concen: 0.182 ng

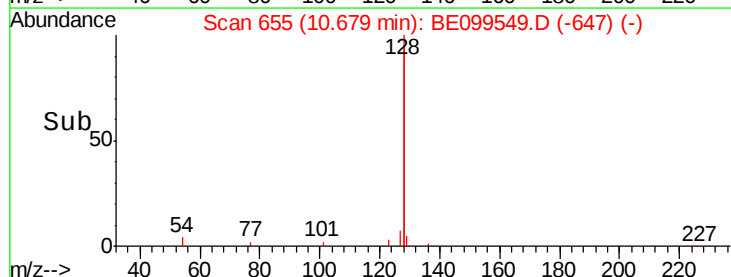
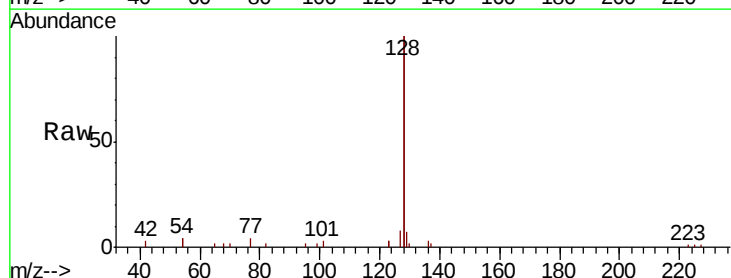
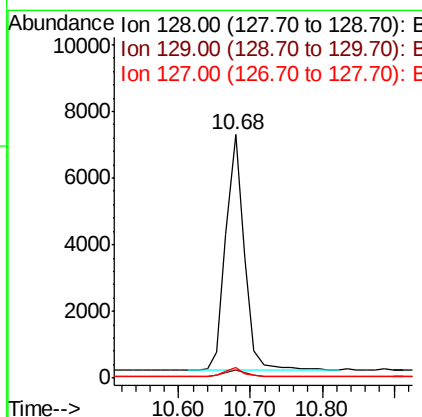
RT: 10.68 min Scan# 655

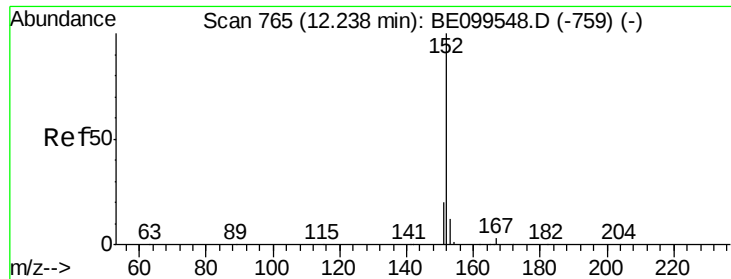
Delta R.T. 0.00 min

Lab File: BE099549.D

Acq: 6 May 2019 13:03

Tgt Ion:	128	Resp:	12612
Ion	Ratio	Lower	Upper
128	100		
129	3.5	2.4	3.6
127	4.2	2.8	4.2





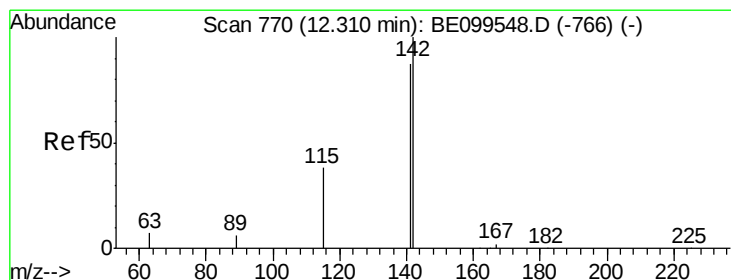
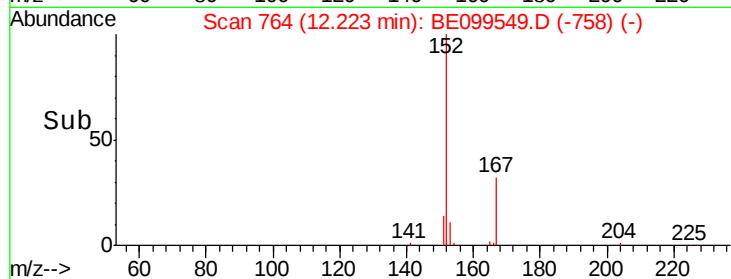
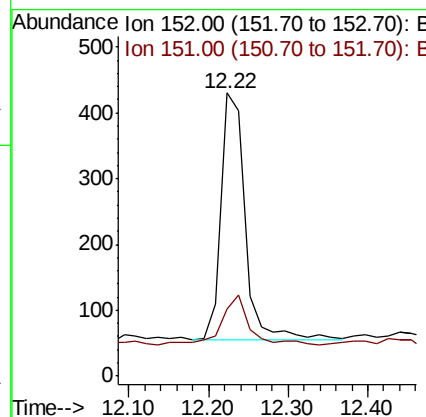
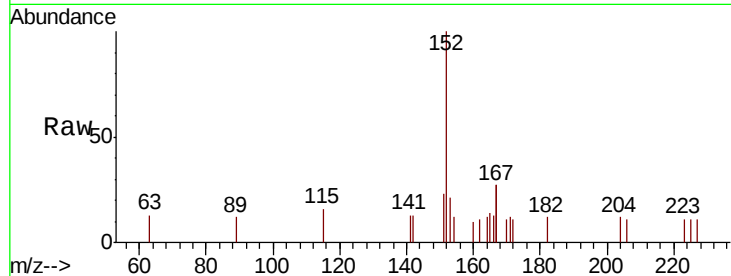
#11
2-Methylnaphthalene-d10
Concen: 0.068 ng
RT: 12.22 min Scan# 764
Delta R.T. -0.01 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.7	15.5	23.3

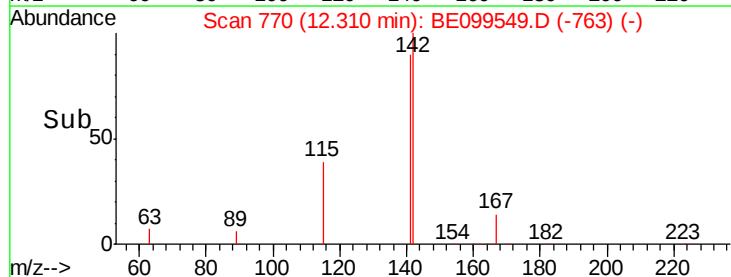
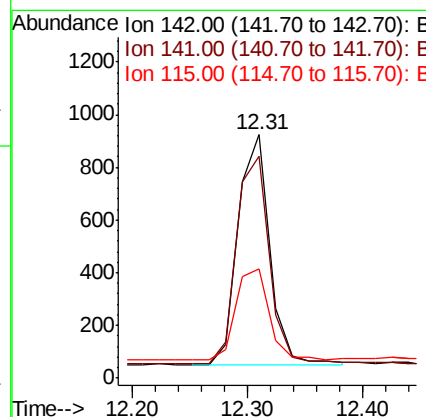
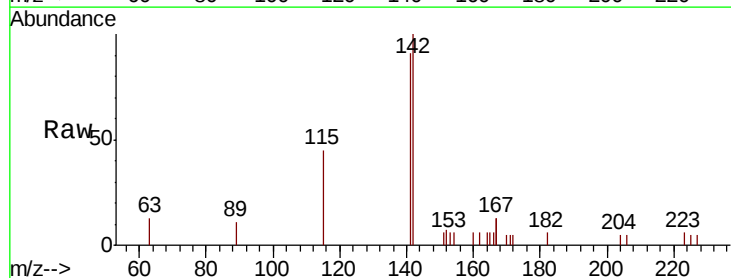
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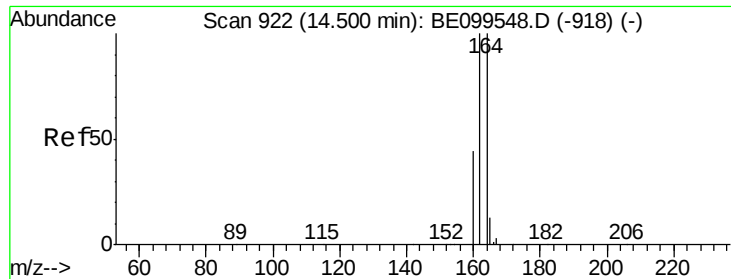
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#12
2-Methylnaphthalene
Concen: 0.138 ng
RT: 12.31 min Scan# 770
Delta R.T. 0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.1	77.0	115.4
115	44.7	33.4	50.0





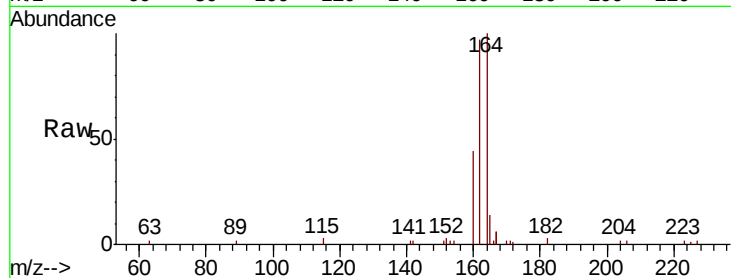
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.50 min Scan# 922
Delta R.T. 0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	97.4	79.0	118.4
160	43.5	37.0	55.4

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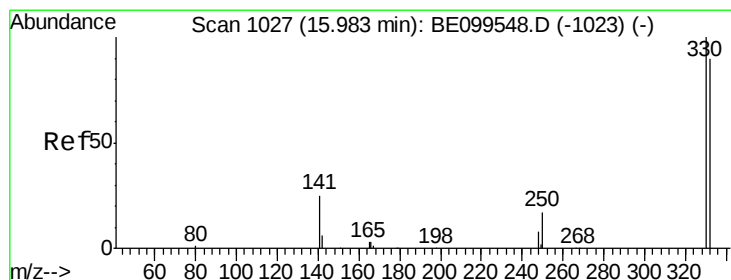
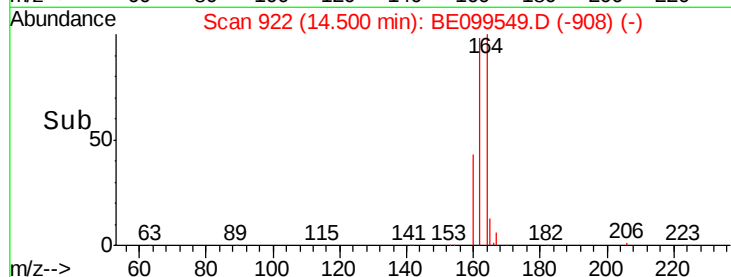
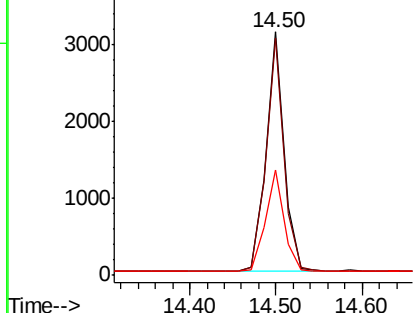


Abundance

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: 0.079 ng
RT: 15.98 min Scan# 1027
Delta R.T. 0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

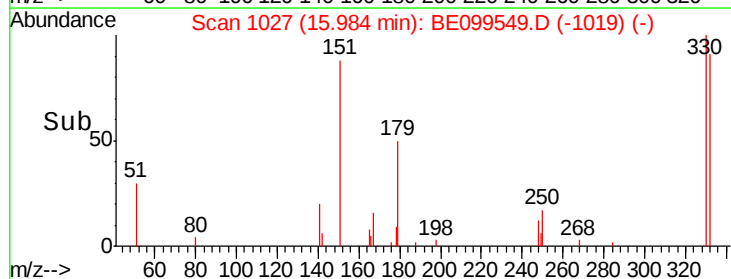
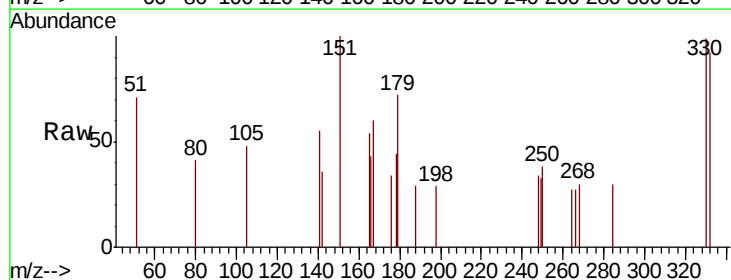
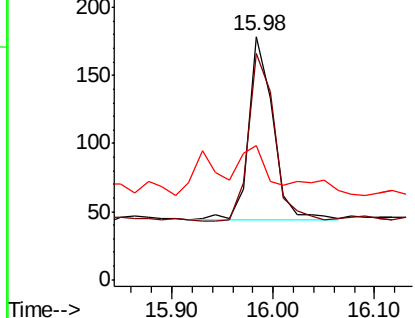
Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.2	71.5	107.3
141	20.3	24.0	36.0#

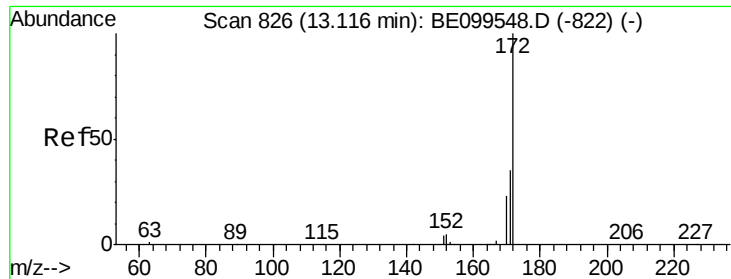
Abundance

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





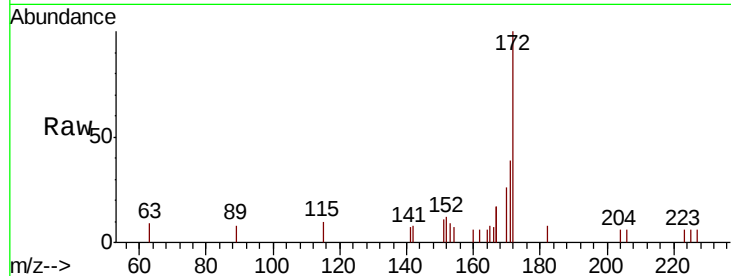
#15
2-Fluorobiphenyl
Concen: 0.064 ng
RT: 13.12 min Scan# 826
Delta R.T. 0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	39.2	26.6	39.8
170	26.5	17.0	25.6

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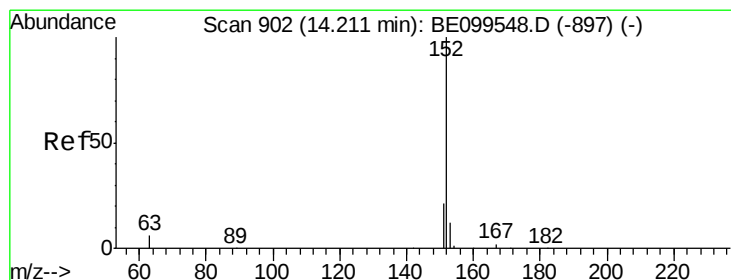
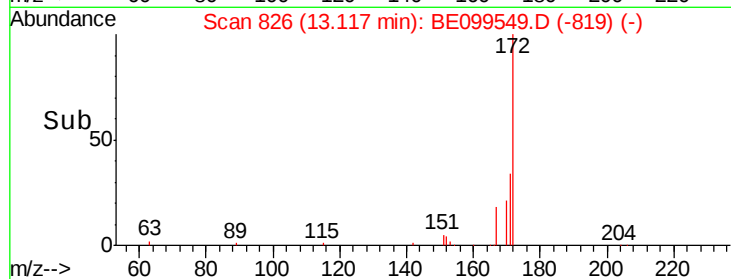
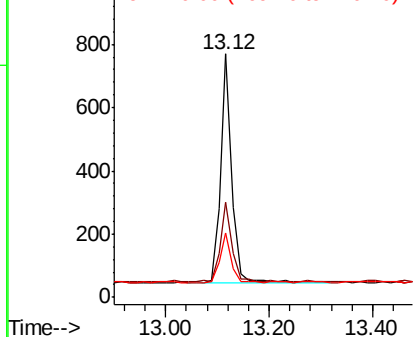


Abundance

Ion 172.00 (171.70 to 172.70): E

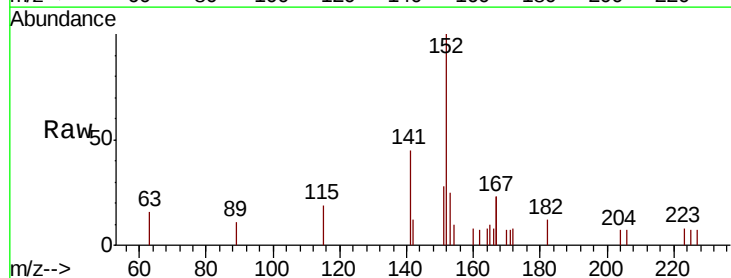
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 0.062 ng
RT: 14.21 min Scan# 902
Delta R.T. 0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Tgt Ion	Ratio	Lower	Upper
152	100		
151	25.3	15.4	23.2
153	18.3	9.8	14.6

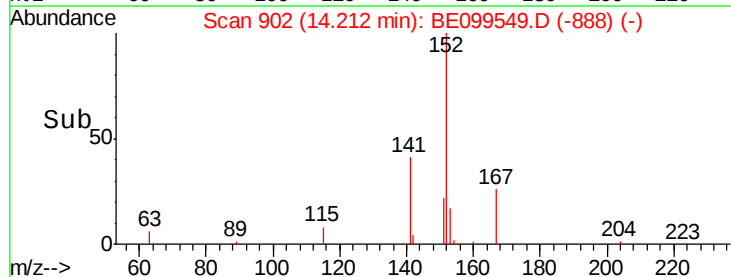
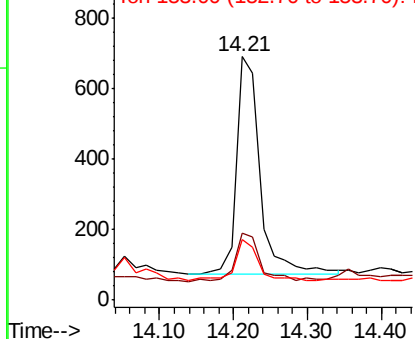


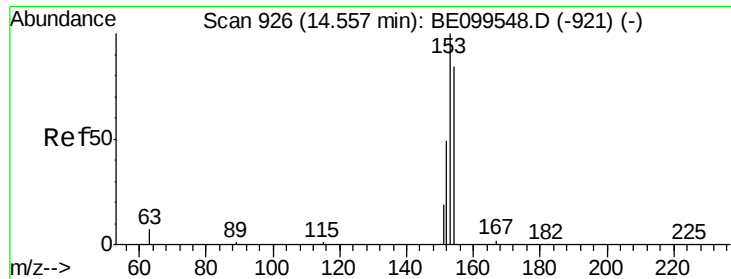
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





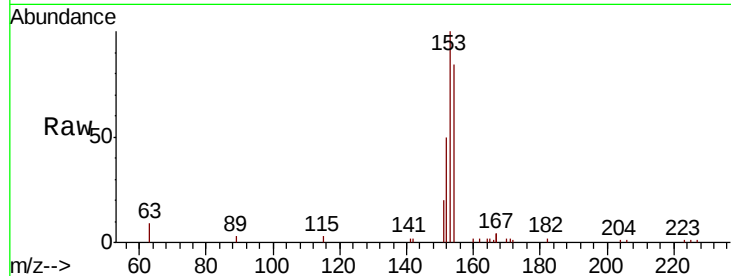
#17
Acenaphthene
Concen: 0.359 ng
RT: 14.56 min Scan# 926
Delta R.T. 0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	117.3	92.6	138.8
152	58.4	45.8	68.8

Manual Integrations
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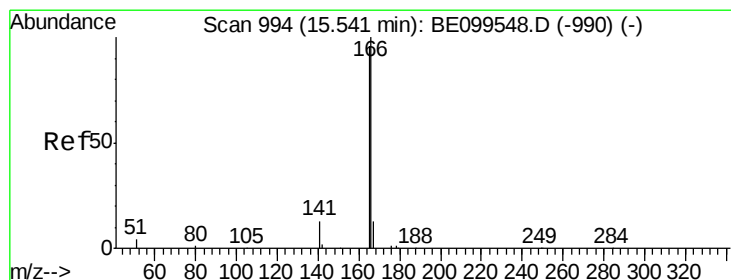
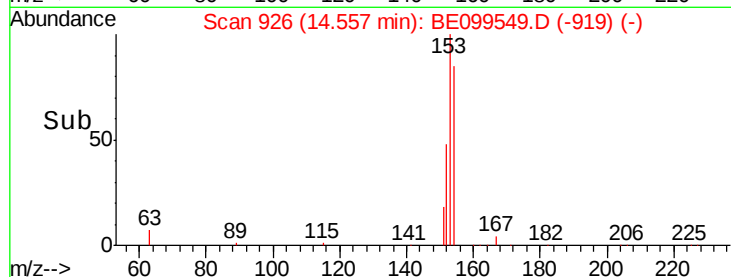
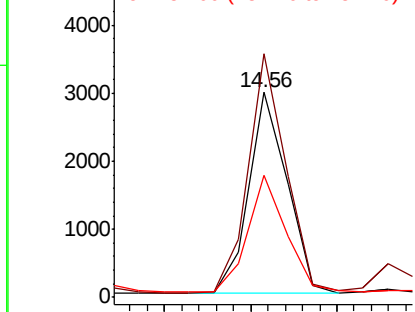


Abundance

Ion 154.00 (153.70 to 154.70): E

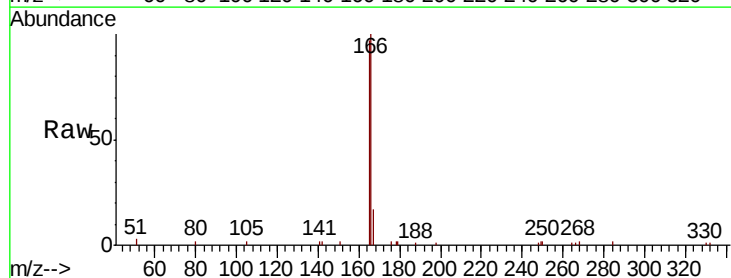
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18
Fluorene
Concen: 0.310 ng
RT: 15.54 min Scan# 994
Delta R.T. 0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.6	80.3	120.5
167	16.2	10.7	16.1#

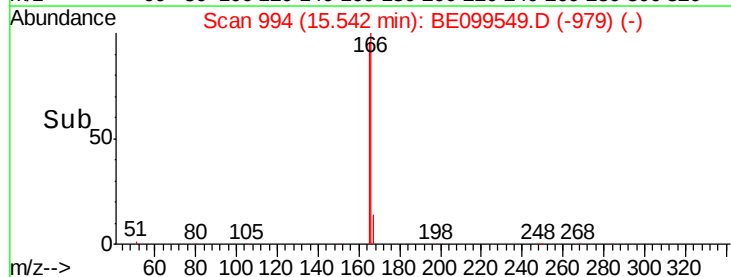
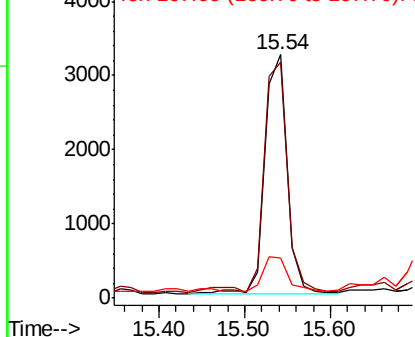


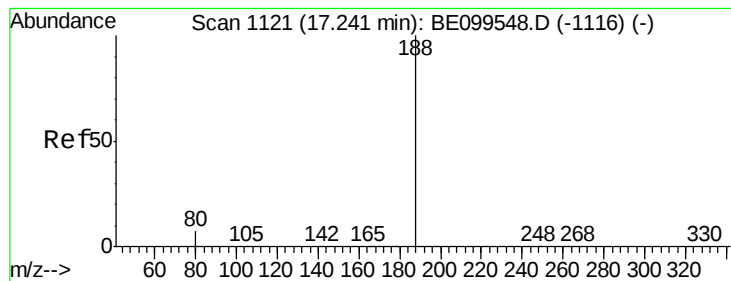
Abundance

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: BE099549.D

Acq: 6 May 2019 13:03

Instrument :

BNA_E

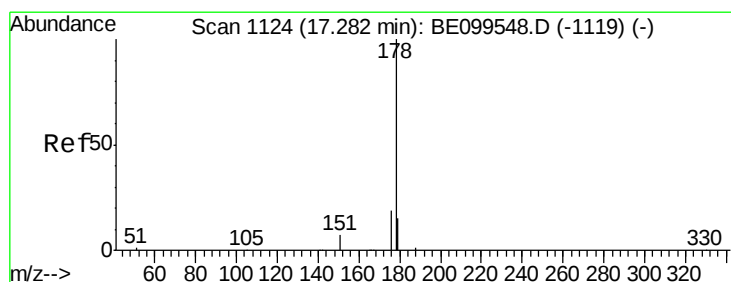
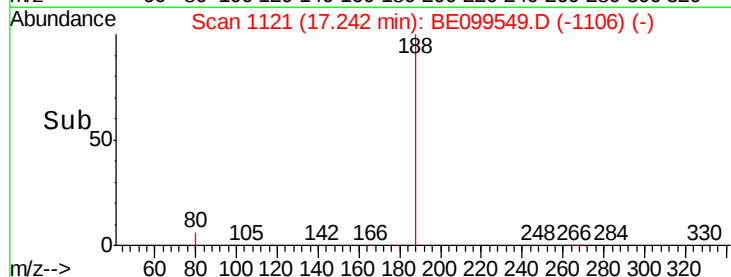
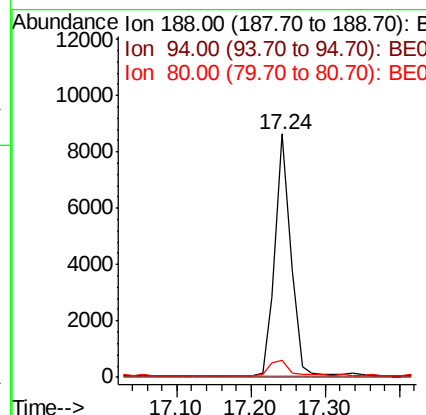
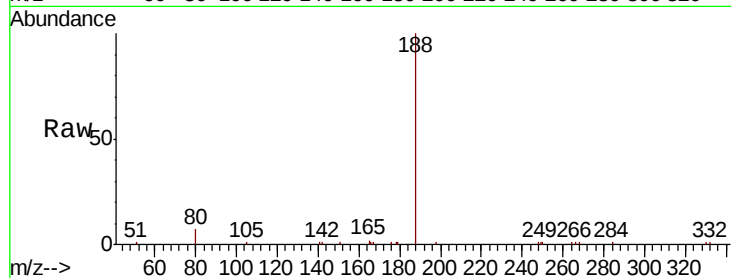
ClientSampleId :

PST-001-B188-042419DL

Tot Ion:	188	Resp:	12628
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.0	6.7	10.1

Manual Integrations
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#23

Phenanthrene

Concen: 3.791 ng

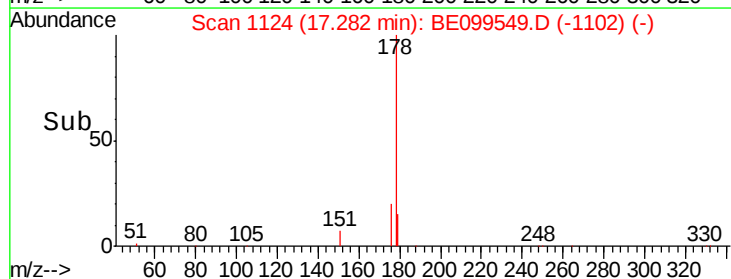
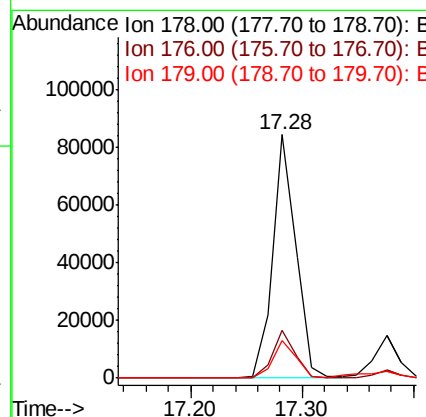
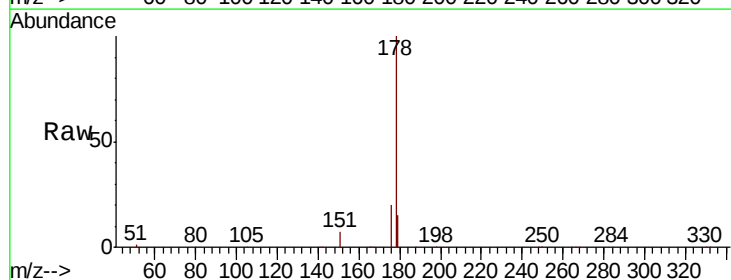
RT: 17.28 min Scan# 1124

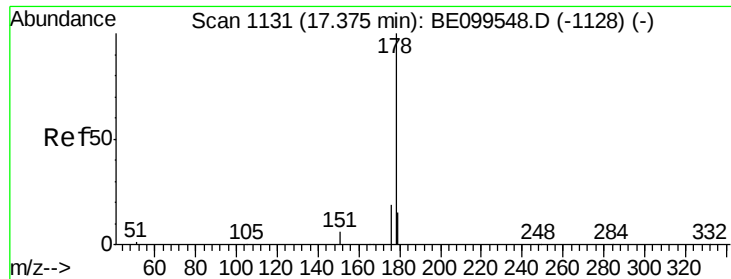
Delta R.T. 0.00 min

Lab File: BE099549.D

Acq: 6 May 2019 13:03

Tgt Ion:	178	Resp:	123515
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.6	23.4
179	15.5	12.0	18.0





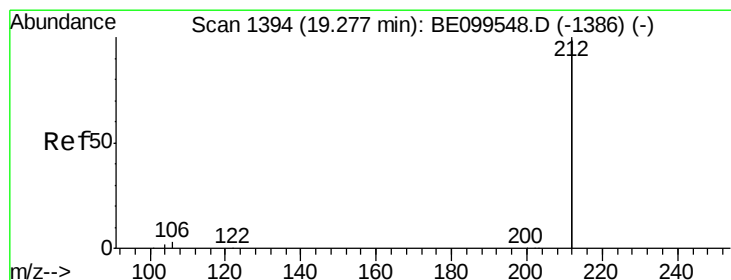
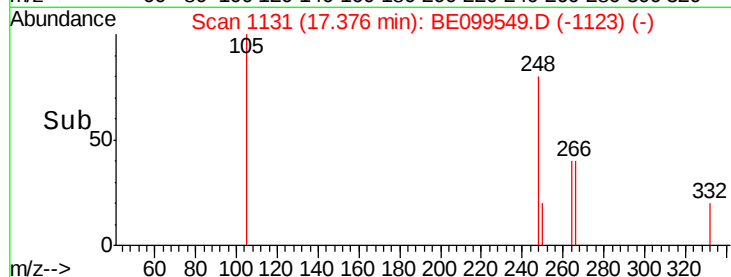
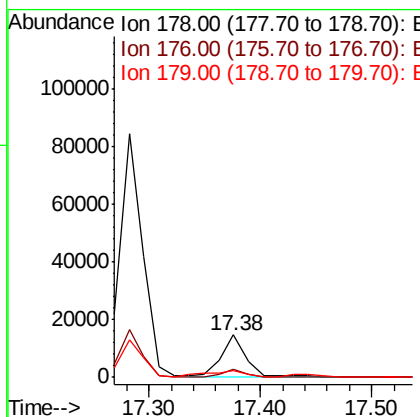
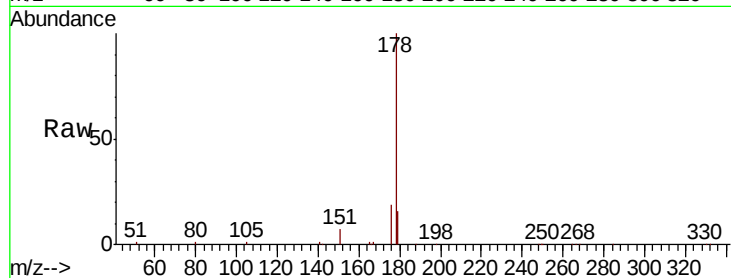
#24
 Anthracene
 Concen: 0.723 ng
 RT: 17.38 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: BE099549.D
 Acq: 6 May 2019 13:03

Instrument :
 BNA_E
 ClientSampleId :
 PST-001-B188-042419DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.9	22.3
179	20.9	11.9	17.9#

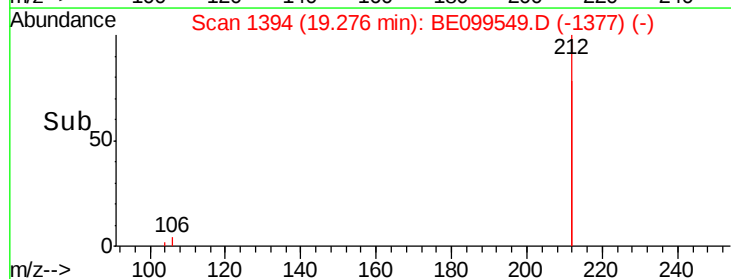
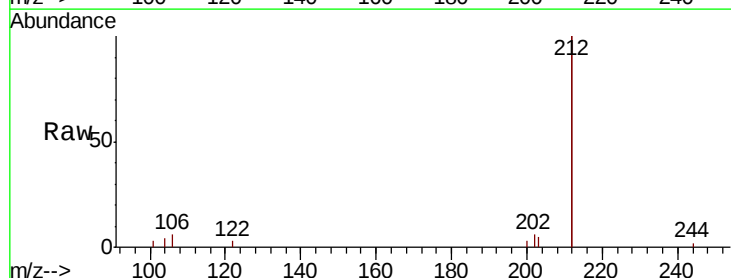
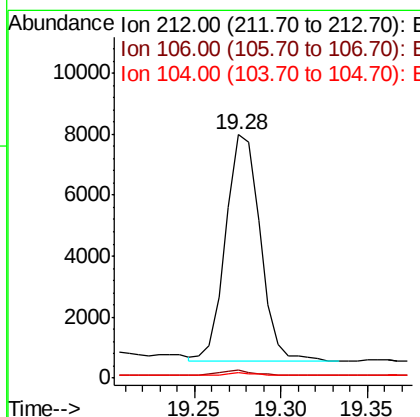
Manual Integrations
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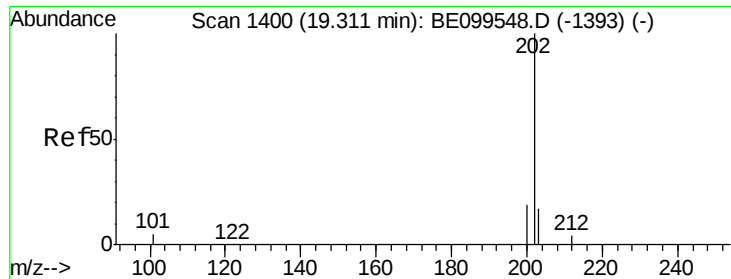
mohammad
 5/7/2019 3:11:06 PM



#25
 Fluoranthene-d10
 Concen: 0.061 ng
 RT: 19.28 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: BE099549.D
 Acq: 6 May 2019 13:03

Tgt Ion	Ratio	Lower	Upper
212	100		
106	2.1	1.5	2.3
104	1.3	0.9	1.3#





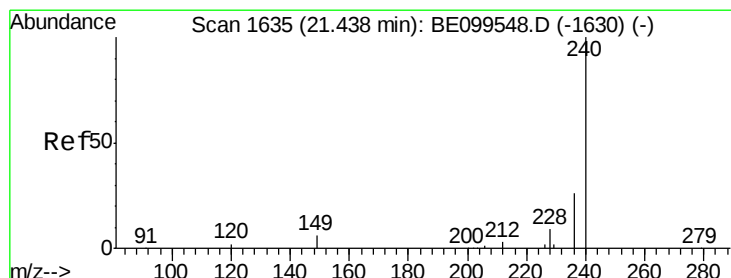
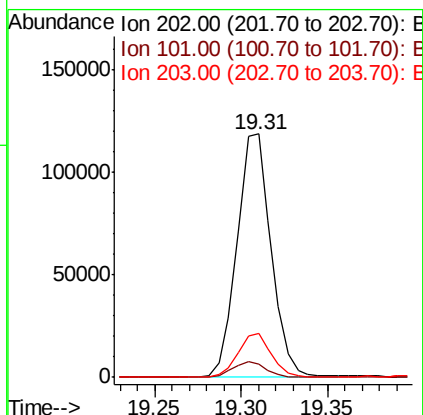
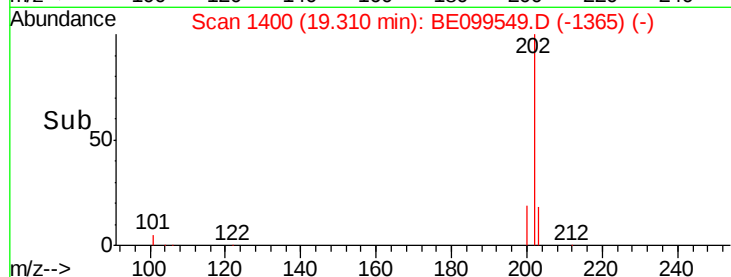
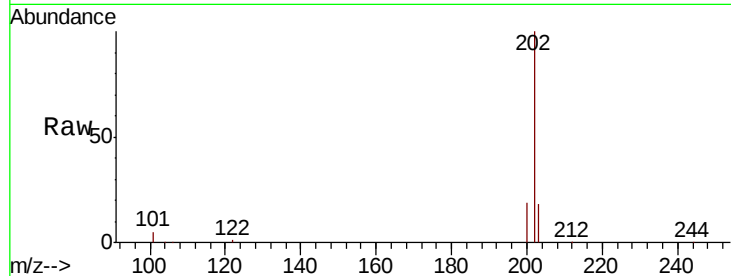
#26
Fluoranthene
Concen: 3.326 ng
RT: 19.31 min Scan# 1400
Delta R.T. -0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	162338		
101	6.1		5.4	8.0
203	17.5		13.9	20.9

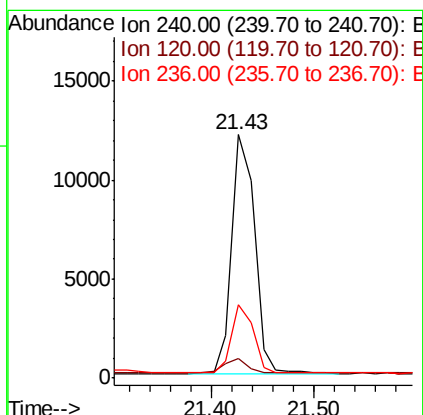
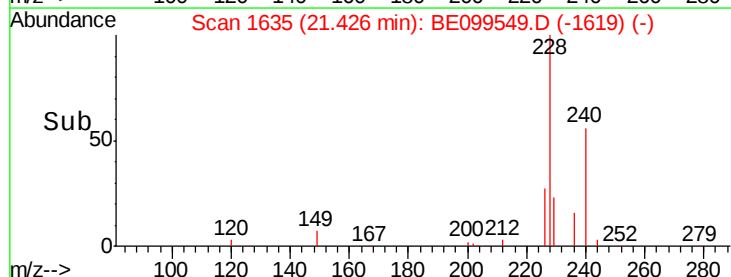
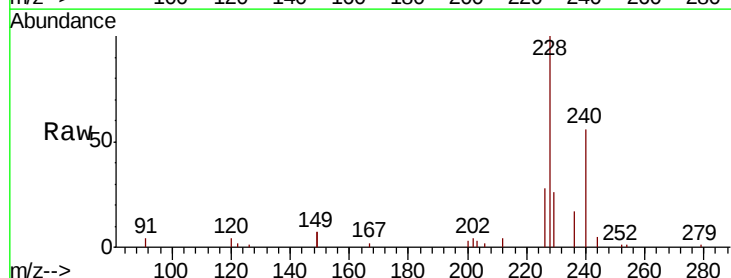
Manual Integrations
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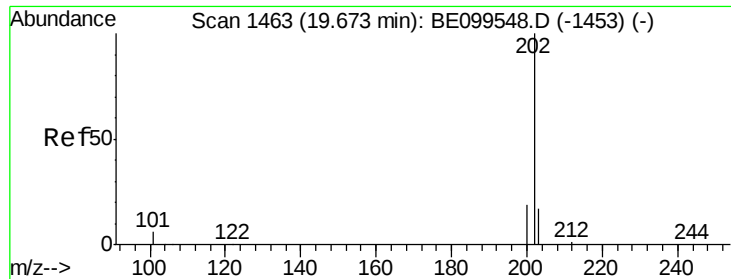
mohammad
5/7/2019 3:11:06 PM



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.43 min Scan# 1635
Delta R.T. -0.01 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	18561		
120	7.9		4.0	6.0#
236	30.2		22.0	33.0





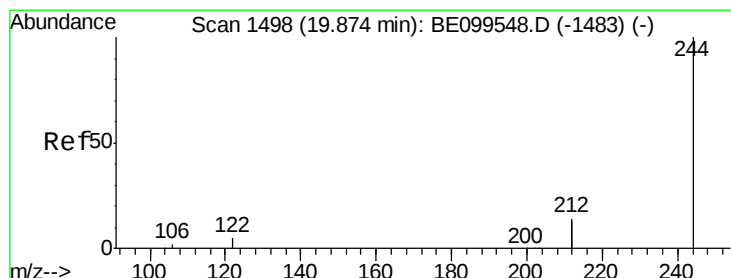
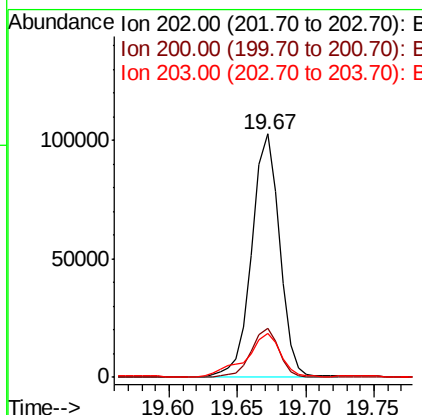
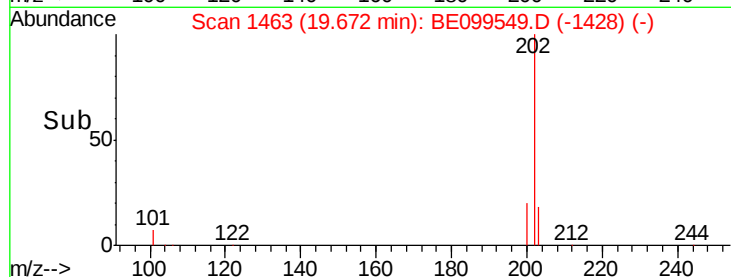
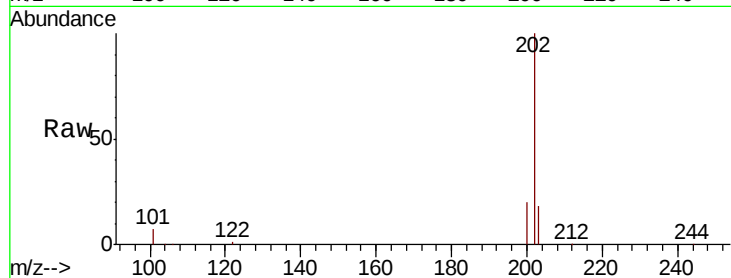
#28
Pvrene
Concen: 2.966 ng
RT: 19.67 min Scan# 1463
Delta R.T. -0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.0	15.7	23.5
203	21.9	13.9	20.9

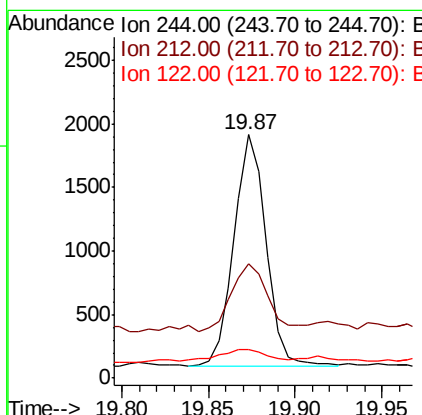
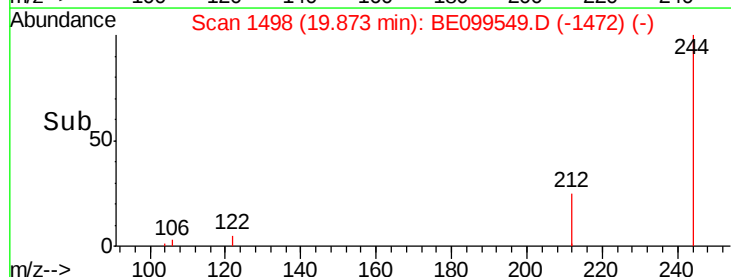
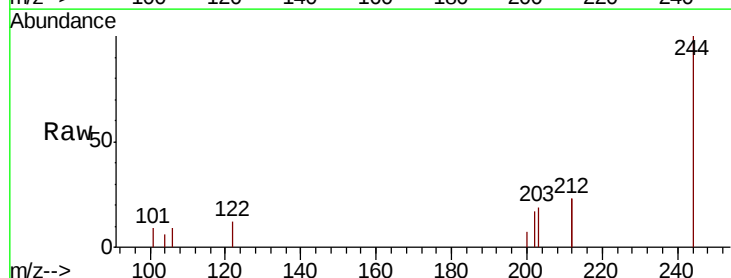
Manual Integrations
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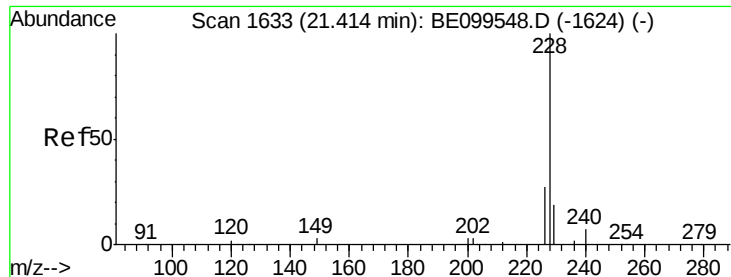
mohammad
5/7/2019 3:11:06 PM



#29
Terphenyl-d14
Concen: 0.069 ng
RT: 19.87 min Scan# 1498
Delta R.T. -0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	46.9	23.2	34.8
122	11.7	4.2	6.4





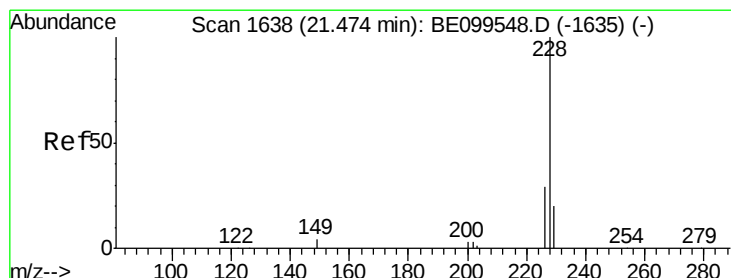
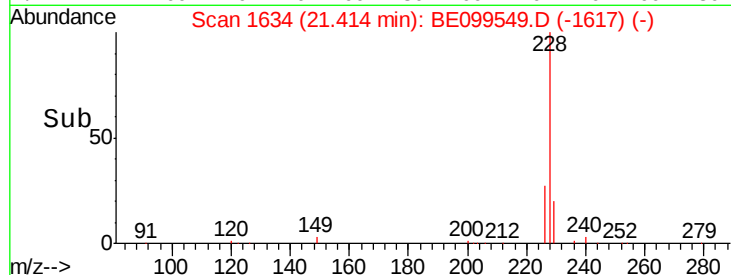
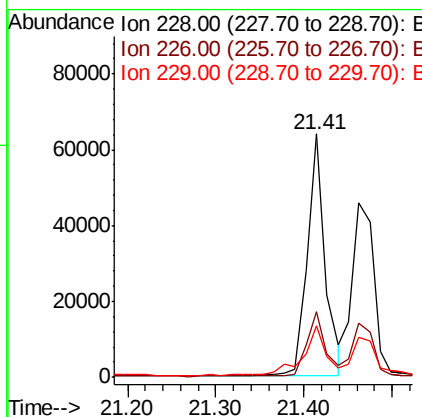
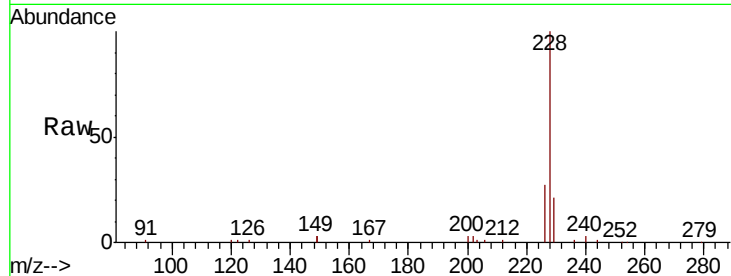
#30
Benzo(a)anthracene
Concen: 1.539 ng
RT: 21.41 min Scan# 1634
Delta R.T. 0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.0	31.6
229	21.1	16.6	25.0

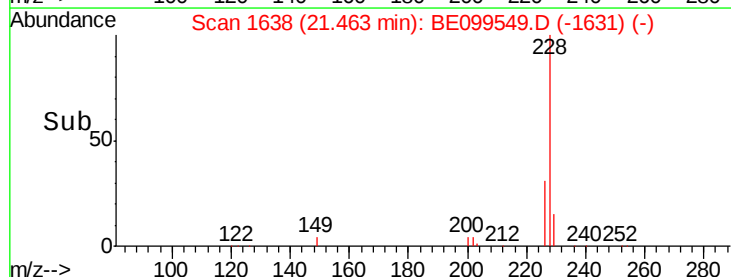
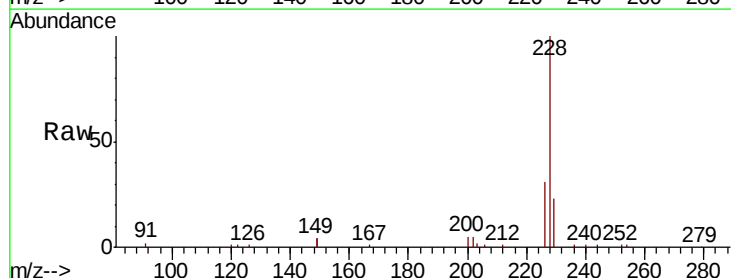
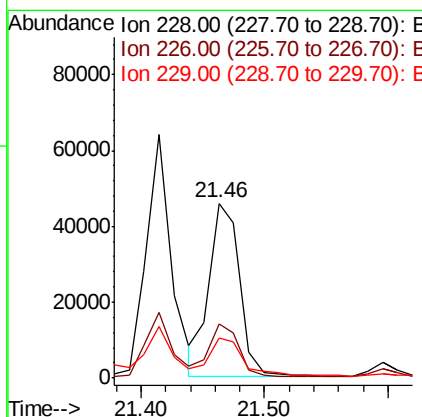
Manual Integrations
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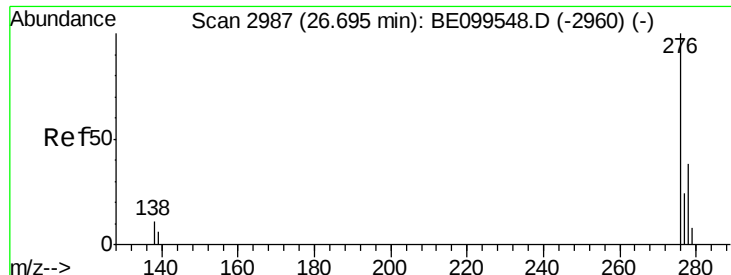
mohammad
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#31
Chrysene
Concen: 1.357 ng
RT: 21.46 min Scan# 1638
Delta R.T. -0.01 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.0	36.0
229	22.8	15.8	23.8





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.558 ng

RT: 26.69 min Scan# 2987

Delta R.T. -0.00 min

Lab File: BE099549.D

Acq: 6 May 2019 13:03

Instrument :

BNA_E

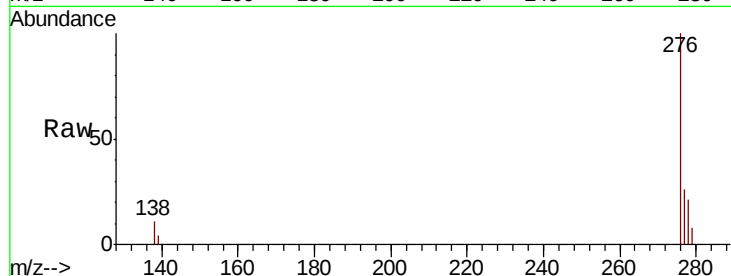
ClientSampleId :

PST-001-B188-042419DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	10.1	10.2	15.2#
277	24.7	19.2	28.8

Manual Integrations
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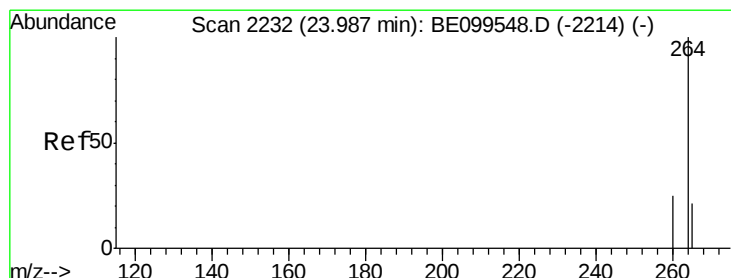
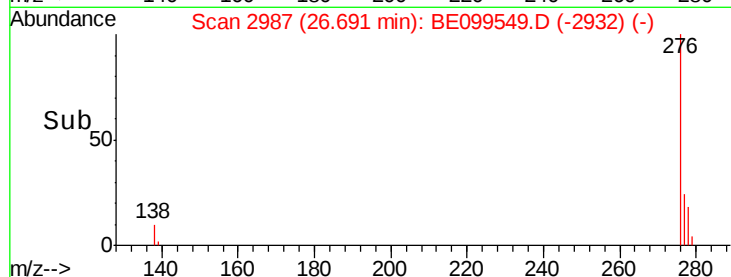
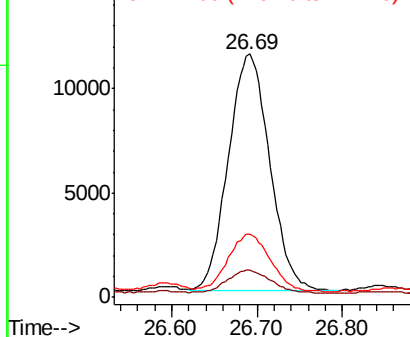


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.99 min Scan# 2233

Delta R.T. -0.00 min

Lab File: BE099549.D

Acq: 6 May 2019 13:03

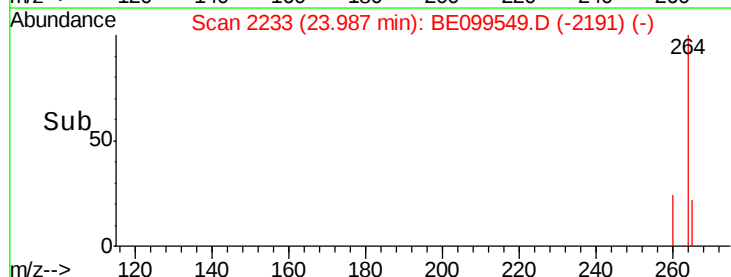
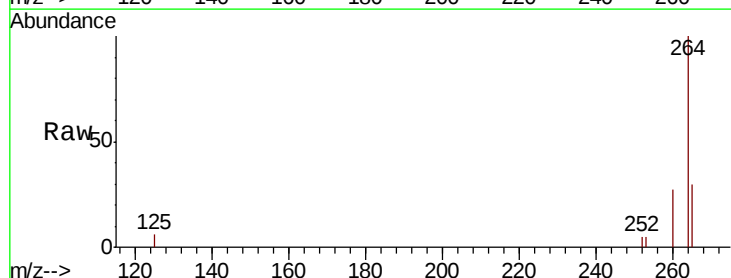
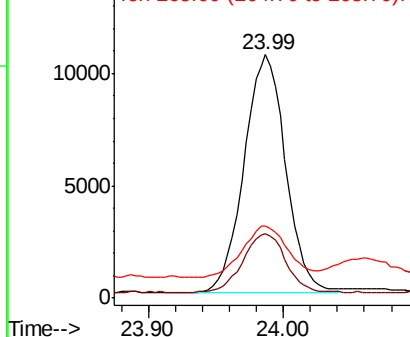
Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.6	20.2	30.2
265	29.6	21.3	31.9

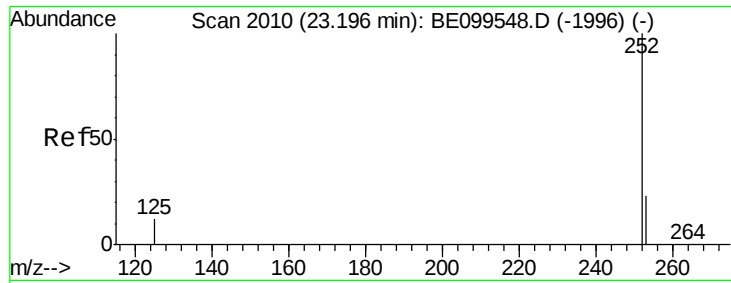
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





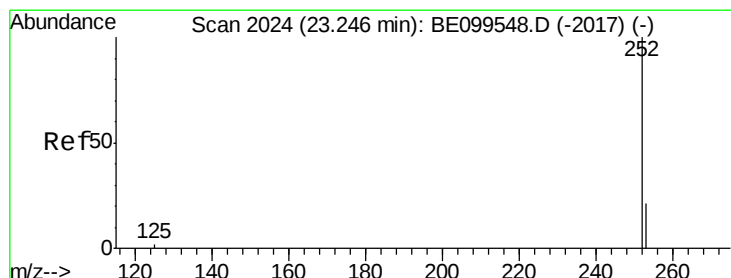
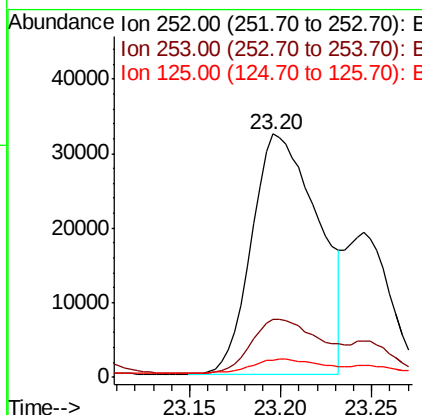
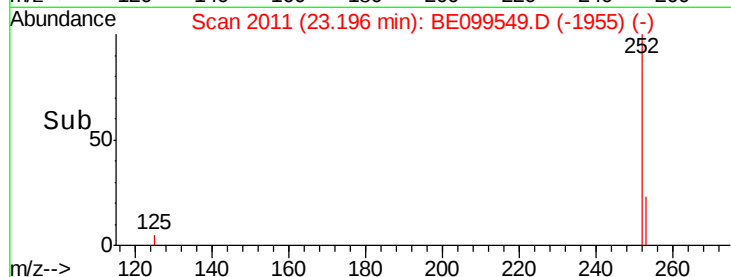
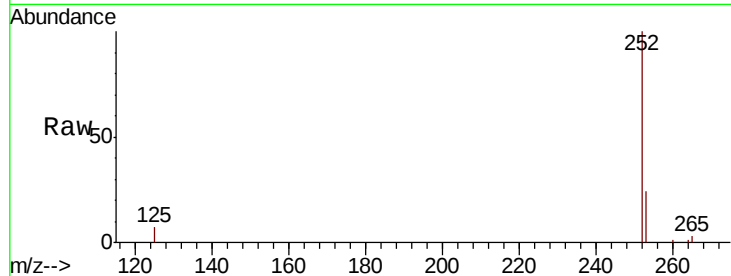
#35
Benzo(b)fluoranthene
Concen: 1.253 ng
RT: 23.20 min Scan# 2011
Delta R.T. -0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	7.0	5.6	8.4

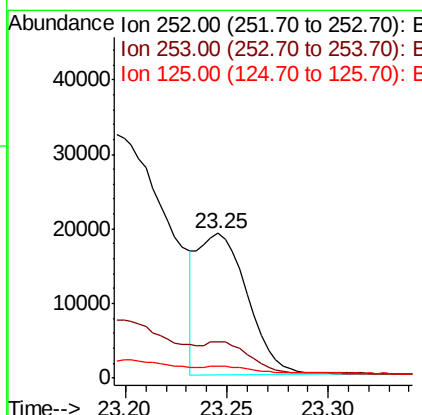
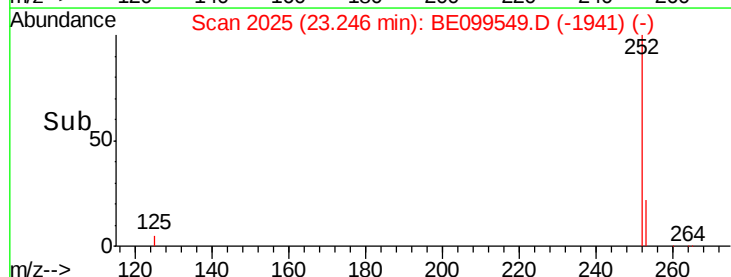
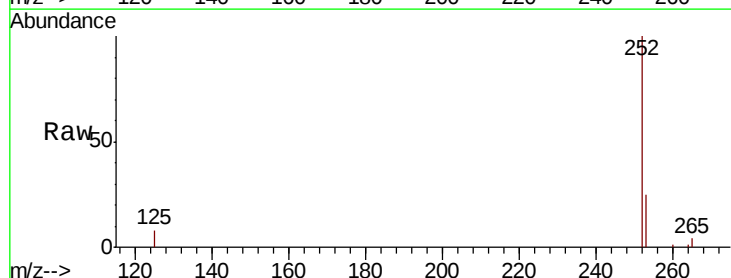
Manual Integrations
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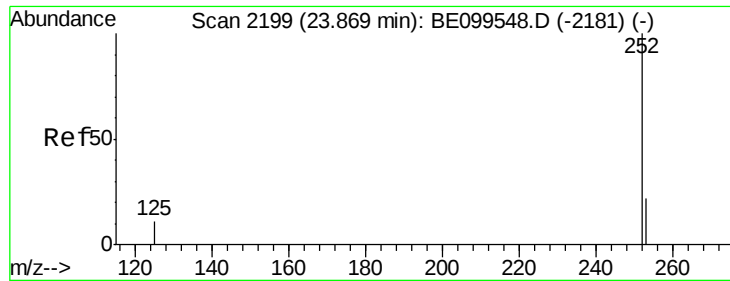
mohammad
5/7/2019 3:11:06 PM



#36
Benzo(k)fluoranthene
Concen: 0.514 ng m
RT: 23.25 min Scan# 2025
Delta R.T. -0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.4	27.6
125	8.0	5.0	7.4#





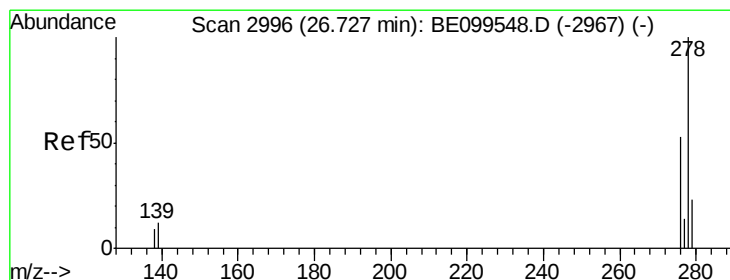
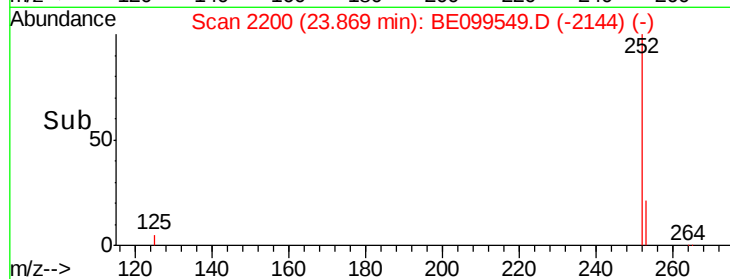
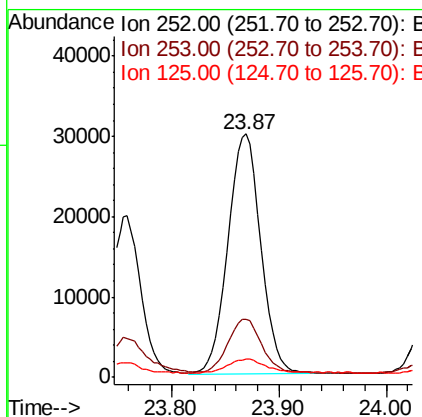
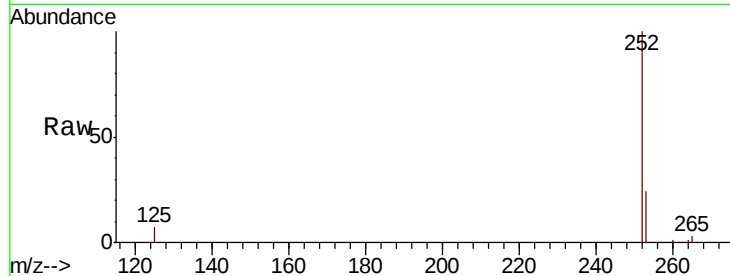
#37
Benzo(a)pyrene
Concen: 1.019 ng
RT: 23.87 min Scan# 2200
Delta R.T. -0.00 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Instrument :
BNA_E
ClientSampleId :
PST-001-B188-042419DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.9	28.3
125	7.4	6.7	10.1

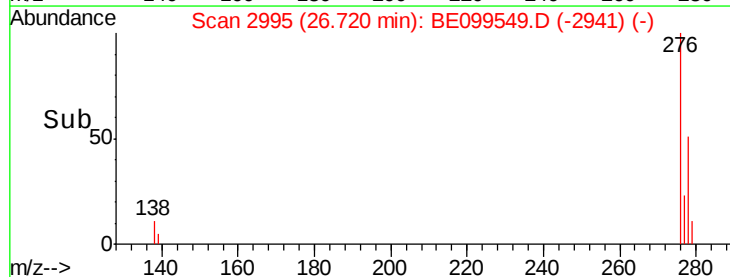
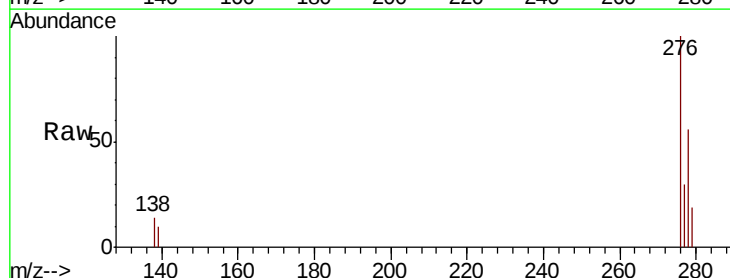
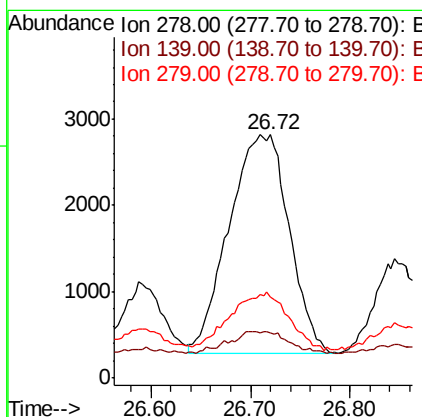
Manual Integrations
APPROVED

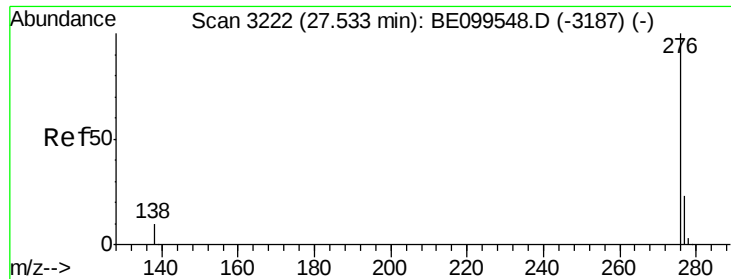
mohammad
5/7/2019 3:11:06 PM



#38
Dibenzo(a,h)anthracene
Concen: 0.168 ng
RT: 26.72 min Scan# 2995
Delta R.T. -0.01 min
Lab File: BE099549.D
Acq: 6 May 2019 13:03

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.7	7.7	11.5#
279	33.3	20.2	30.2#





#39

Benzo(a,h,i)perylene

Concen: 0.557 ng

RT: 27.53 min Scan# 3223

Delta R.T. 0.00 min

Lab File: BE099549.D

Acq: 6 May 2019 13:03

Instrument :

BNA_E

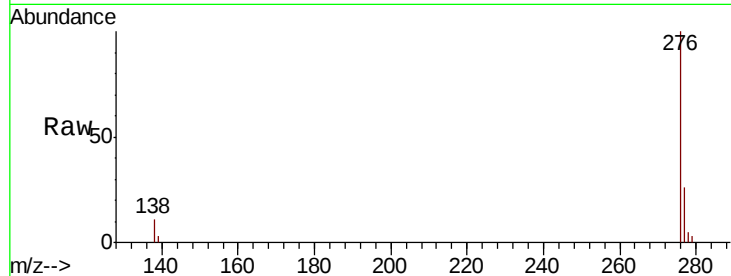
ClientSampleId :

PST-001-B188-042419DL

Tot Ion:	276	Resp:	35370
Ion Ratio	Lower	Upper	
276	100		
277	25.8	19.5	29.3
138	11.2	9.6	14.4

Manual Integrations
APPROVED

mohammad
5/7/2019 3:11:06 PM



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

