

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM051419\
 Data File : BM020335.D
 Acq On : 14 May 2019 16:40
 Operator : JU/SJ
 Sample : K2836-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CULVER-CBTC-WC1-051019

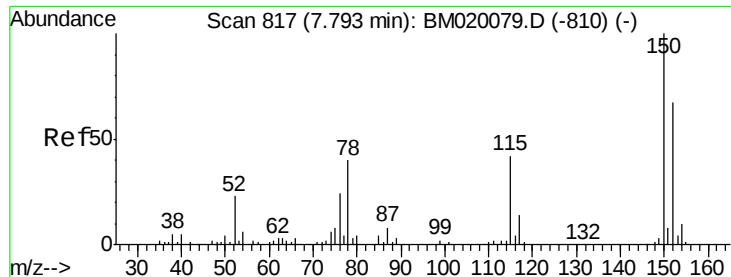
Manual Integrations
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Quant Time: May 15 04:00:51 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 03:58:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.76	152	55301	20.00	ng	-0.04
21) Naphthalene-d8	10.55	136	181145	20.00	ng	-0.04
39) Acenaphthene-d10	14.40	164	113511	20.00	ng	-0.03
64) Phenanthrene-d10	17.16	188	277336	20.00	ng	-0.02
76) Chrysene-d12	21.34	240	318881	20.00	ng	-0.02
87) Perylene-d12	23.63	264	390556	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	413161	122.12	ng	-0.03
7) Phenol-d6	6.93	99	519517	112.40	ng	-0.02
23) Nitrobenzene-d5	8.93	82	352921	76.92	ng	-0.03
42) 2,4,6-Tribromophenol	15.90	330	225787	128.15	ng	-0.02
45) 2-Fluorobiphenyl	13.02	172	699859	75.86	ng	-0.04
79) Terphenyl-d14	19.79	244	1233194	67.45	ng	-0.02
Target Compounds						
31) Naphthalene	10.60	128	45258	4.815	ng	Qvalue 98
50) Dimethylphthalate	13.86	163	95660	9.915	ng	99
52) Acenaphthene	14.47	154	23740	3.468	ng	94
55) Dibenzofuran	14.80	168	31160	2.698	ng	96
58) Fluorene	15.46	166	43631	4.600	ng	100
71) Phenanthrene	17.20	178	311877	20.372	ng	99
72) Anthracene	17.29	178	80820	5.280	ng	99
75) Fluoranthene	19.22	202	398502	20.573	ng	99
78) Pyrene	19.58	202	320411	14.966	ng	99
81) Benzo(a)anthracene	21.33	228	166918	7.464	ng	98
83) Chrysene	21.39	228	164124	7.567	ng	97
86) Indeno(1,2,3-cd)pyrene	25.94	276	107998	4.186	ng	# 100
88) Benzo(b)fluoranthene	22.94	252	247477m	9.596	ng	
89) Benzo(k)fluoranthene	22.98	252	72997m	3.103	ng	
90) Benzo(a)pyrene	23.53	252	144581	6.172	ng	# 94
92) Benzo(g,h,i)perylene	26.67	276	103122	4.458	ng	95

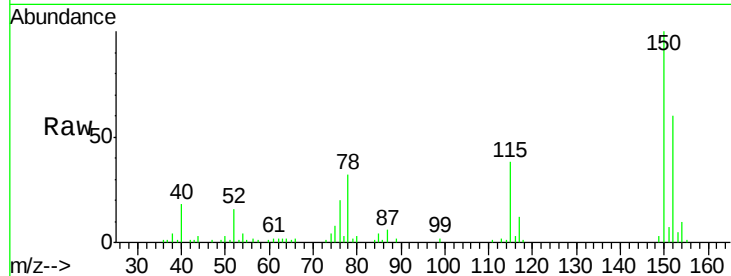
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.76 min Scan# 811
Delta R.T. -0.04 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

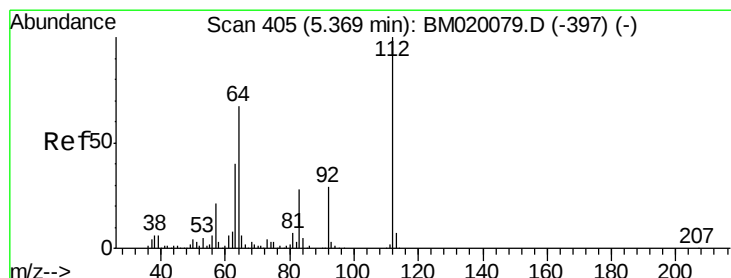
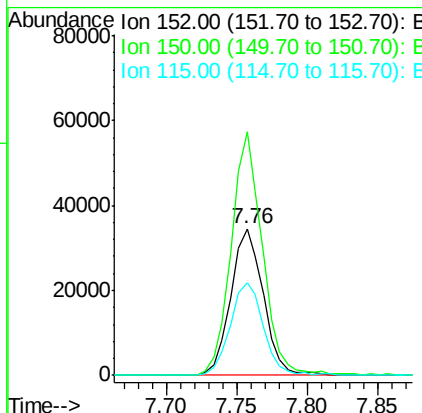
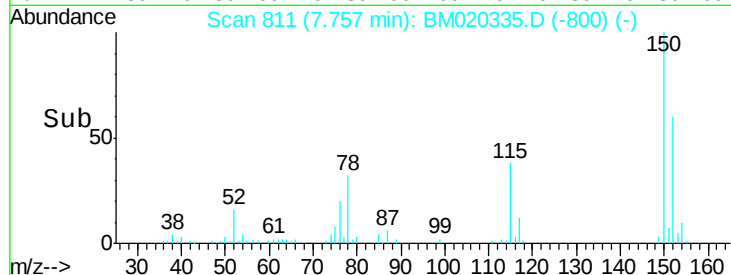
Instrument :
BNA_M
ClientSampleId :
CULVER-CBTC-WC1-051019



Tgt Ion	Ratio	Lower	Upper
152	100		
150	166.3	119.8	179.8
115	63.1	50.8	76.2

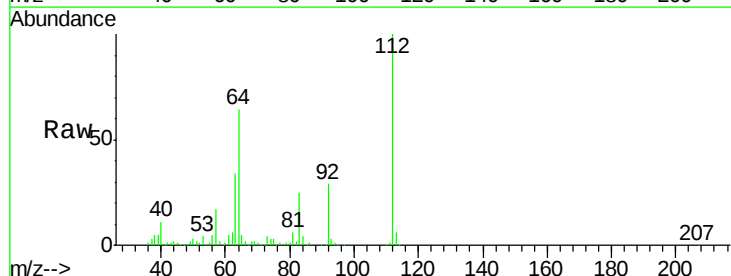
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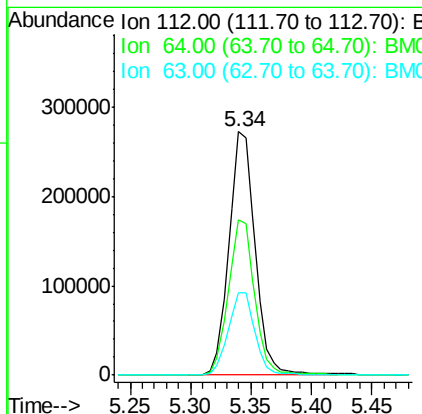
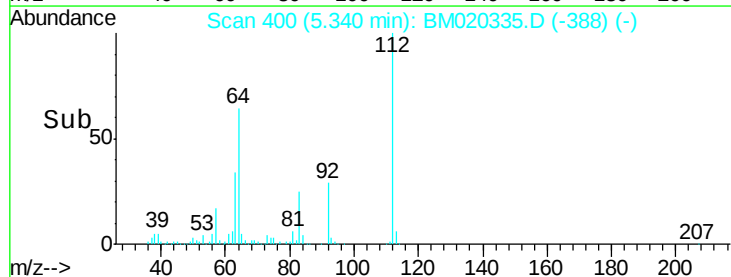


#5

2-Fluorophenol
Concen: 122.123 ng
RT: 5.34 min Scan# 400
Delta R.T. -0.03 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40



Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.7	53.8	80.6
63	33.7	32.3	48.5





#7

Phenol-d6

Concen: 112.404 ng

RT: 6.93 min Scan# 670

Delta R.T. -0.02 min

Lab File: BM020335.D

Acq: 14 May 2019 16:40

Instrument :

BNA_M

ClientSampleId :

CULVER-CBTC-WC1-051019

Tgt Ion: 99 Resp: 519517
Ion Ratio Lower Upper

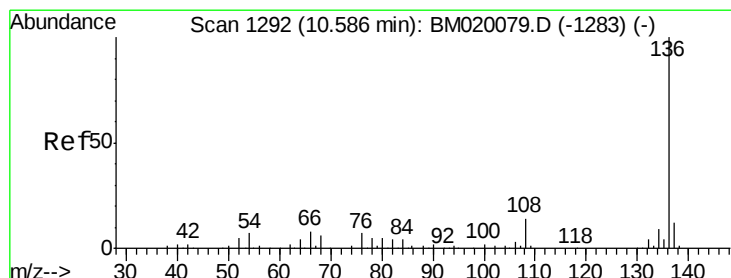
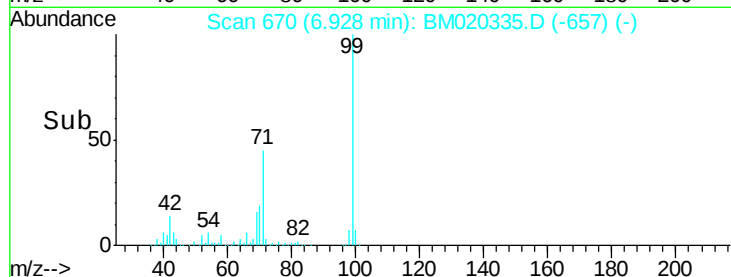
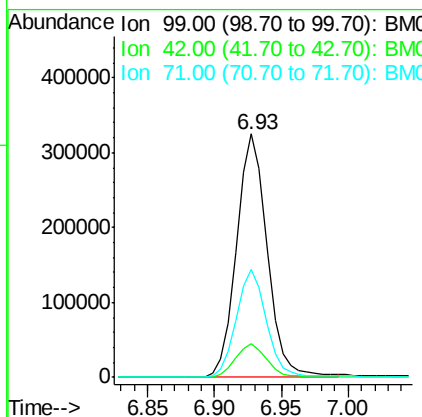
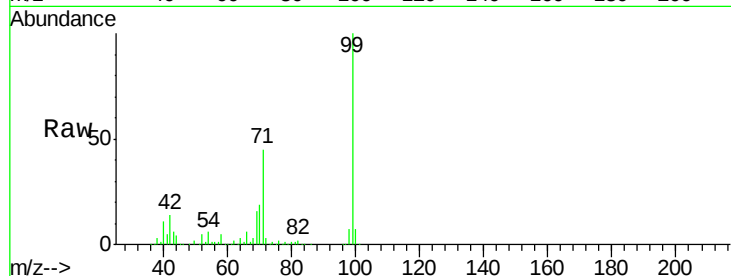
99 100

42 13.6 14.2 21.2#

71 44.6 40.3 60.5

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.55 min Scan# 1286

Delta R.T. -0.04 min

Lab File: BM020335.D

Acq: 14 May 2019 16:40

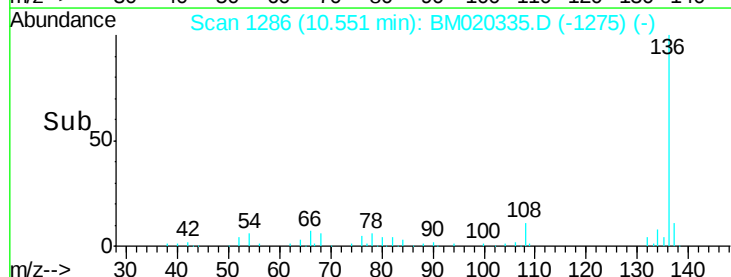
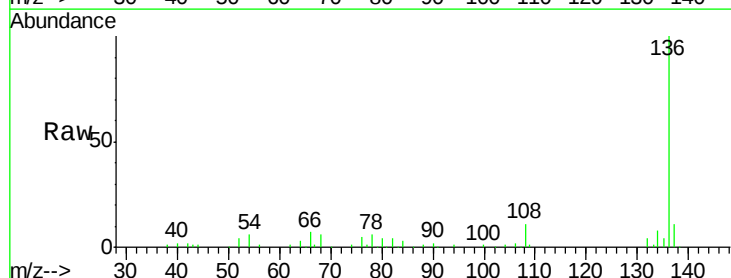
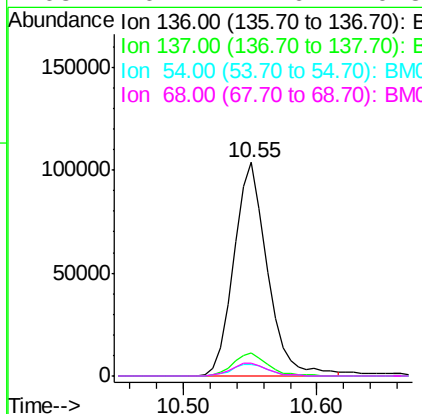
Tgt Ion: 136 Resp: 181145
Ion Ratio Lower Upper

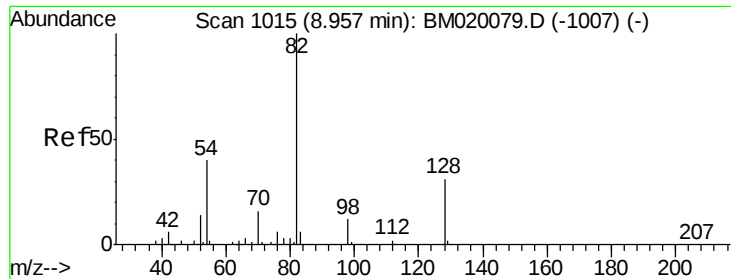
136 100

137 10.8 9.6 14.4

54 5.6 5.5 8.3

68 6.2 4.6 6.8





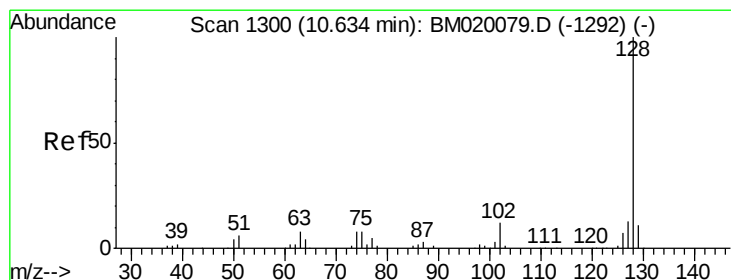
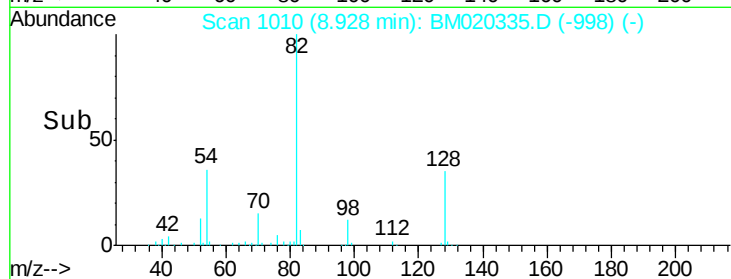
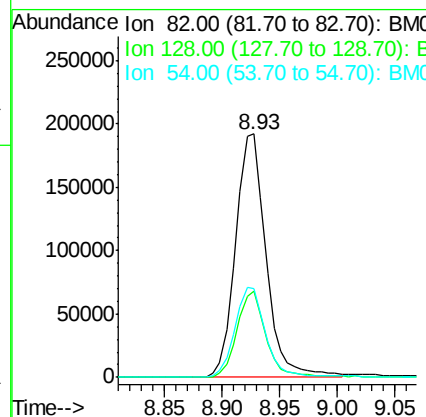
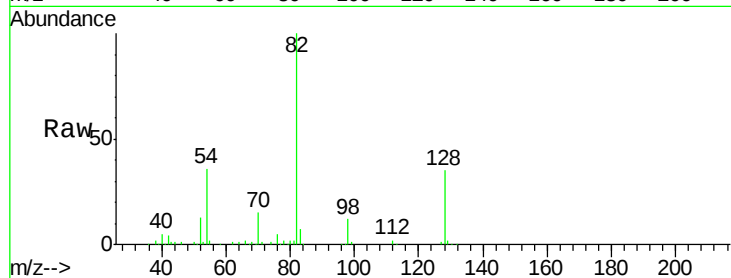
#23
Nitrobenzene-d5
Concen: 76.918 ng
RT: 8.93 min Scan# 1010
Delta R.T. -0.03 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Instrument :
BNA_M
ClientSampleId :
CULVER-CBTC-WC1-051019

Tgt Ion	Ratio	Lower	Upper
82	100		
128	35.4	25.2	37.8
54	36.3	31.9	47.9

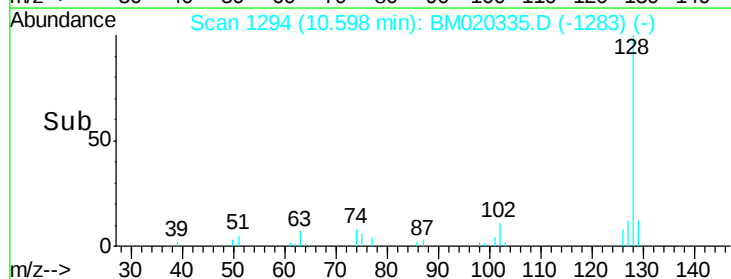
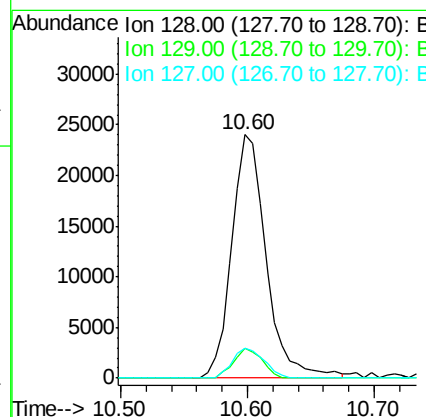
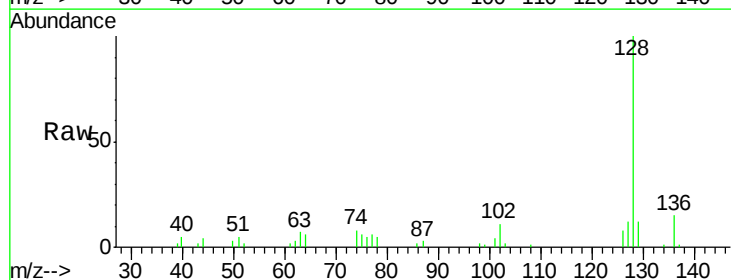
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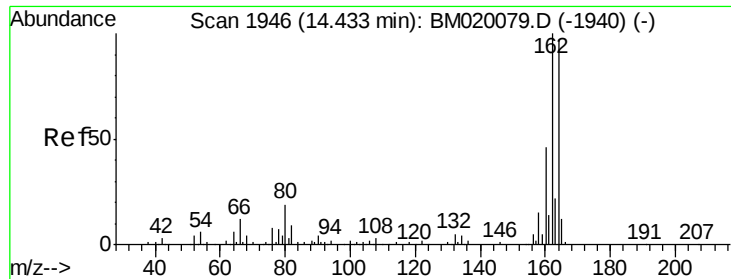
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#31
Naphthalene
Concen: 4.815 ng
RT: 10.60 min Scan# 1294
Delta R.T. -0.04 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.0	13.4
127	12.3	10.4	15.6





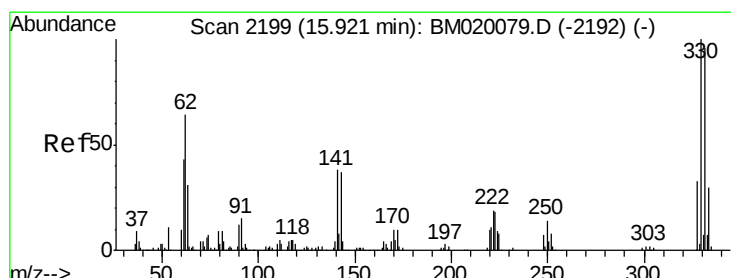
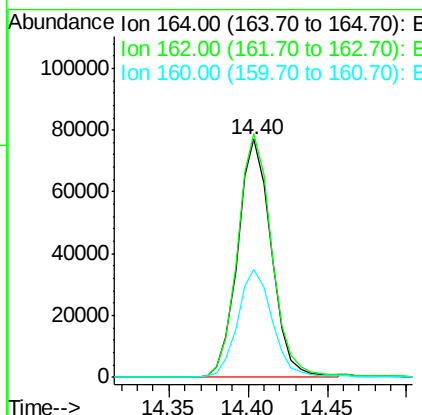
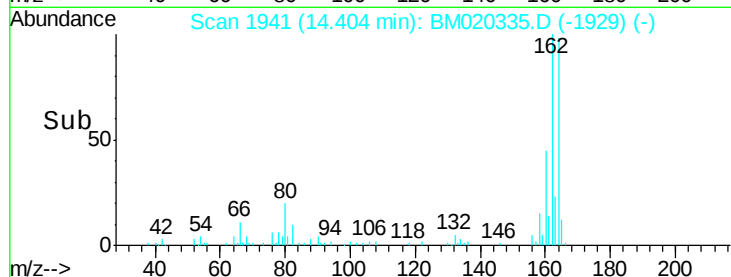
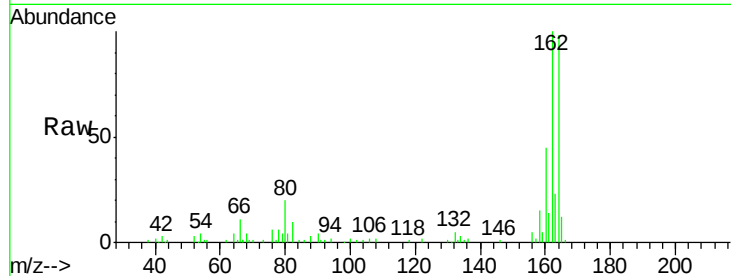
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.40 min Scan# 1941
Delta R.T. -0.03 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Instrument :
BNA_M
ClientSampleId :
CULVER-CBTC-WC1-051019

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	113511		
162	102.3	82.2	123.2	
160	45.5	37.6	56.4	

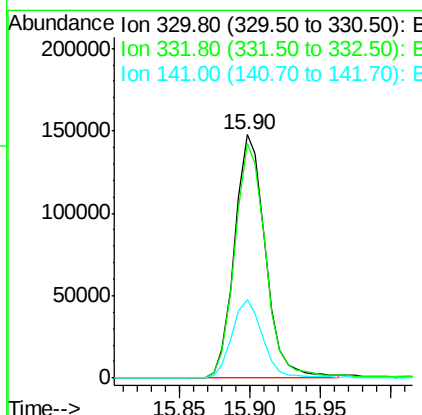
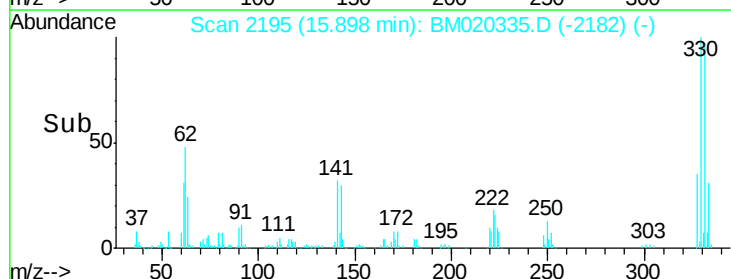
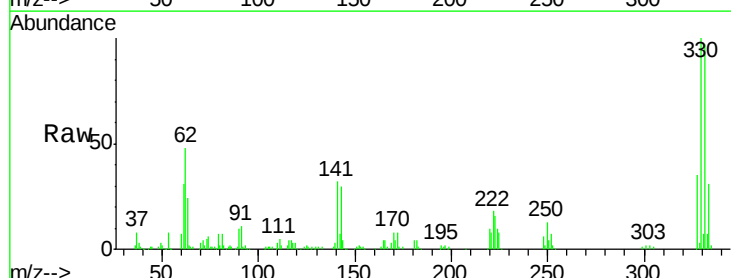
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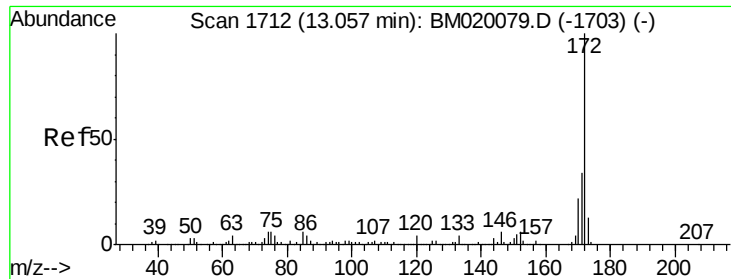
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#42
2,4,6-Tribromophenol
Concen: 128.149 ng
RT: 15.90 min Scan# 2195
Delta R.T. -0.02 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	225787		
332	96.5	76.8	115.2	
141	32.3	29.2	43.8	





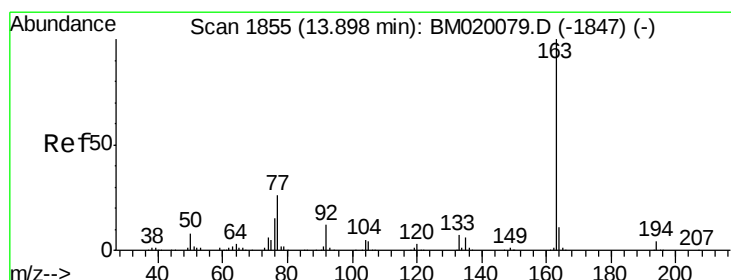
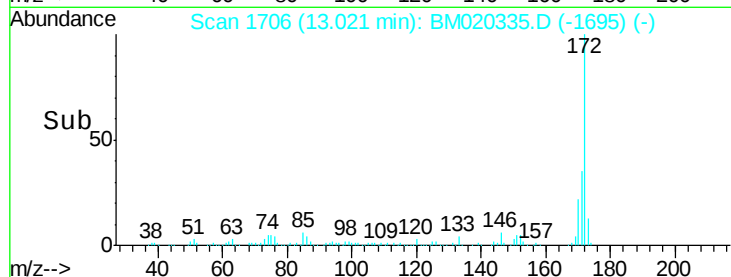
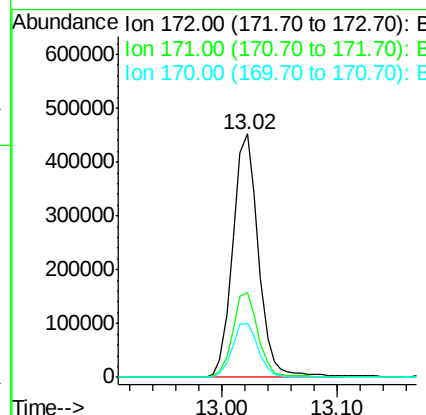
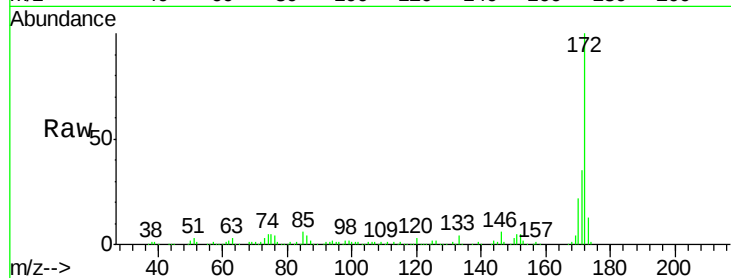
#45
 2-Fluorobiphenyl
 Concen: 75.859 ng
 RT: 13.02 min Scan# 1706
 Delta R.T. -0.04 min
 Lab File: BM020335.D
 Acq: 14 May 2019 16:40

Instrument :
 BNA_M
 ClientSampleId :
 CULVER-CBTC-WC1-051019

Tgt Ion:	172	Resp:	699859
Ion Ratio		Lower	Upper
172	100		
171	34.7	27.3	40.9
170	22.2	17.9	26.9

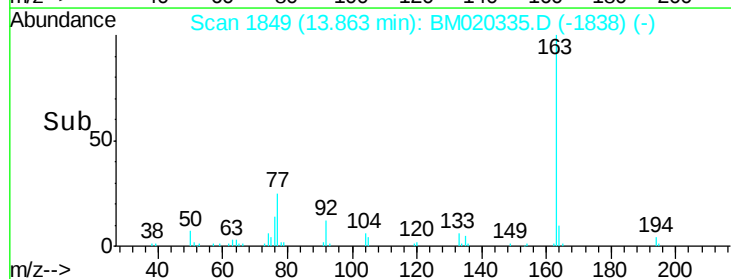
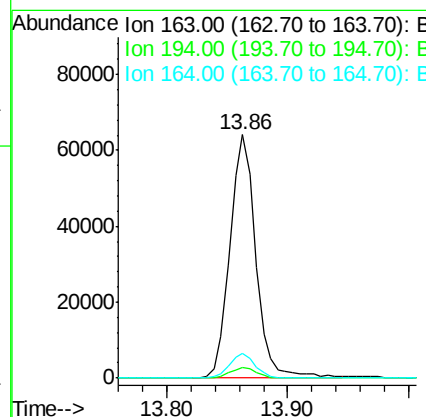
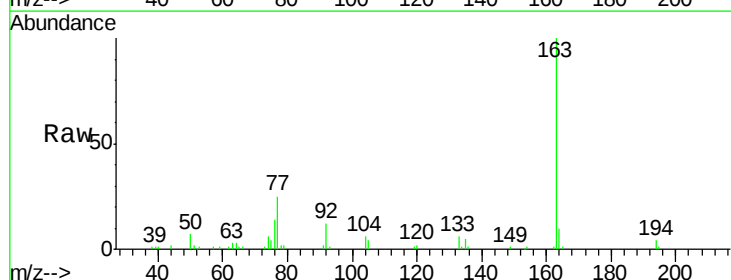
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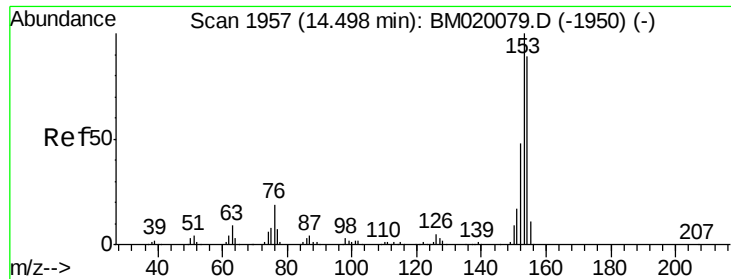
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#50
 Dimethylphthalate
 Concen: 9.915 ng
 RT: 13.86 min Scan# 1849
 Delta R.T. -0.04 min
 Lab File: BM020335.D
 Acq: 14 May 2019 16:40

Tgt Ion:	163	Resp:	95660
Ion Ratio		Lower	Upper
163	100		
194	4.4	3.6	5.4
164	10.0	8.4	12.6





#52

Acenaphthene

Concen: 3.468 ng

RT: 14.47 min Scan# 1952

Delta R.T. -0.03 min

Lab File: BM020335.D

Acq: 14 May 2019 16:40

Instrument :

BNA_M

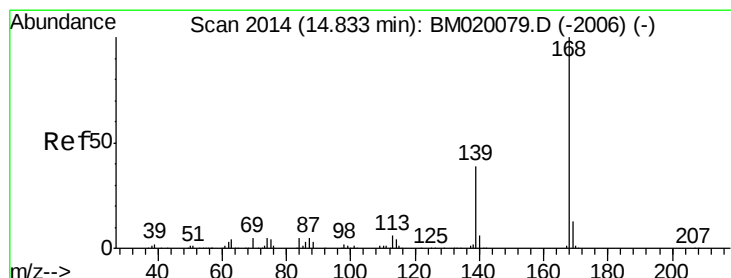
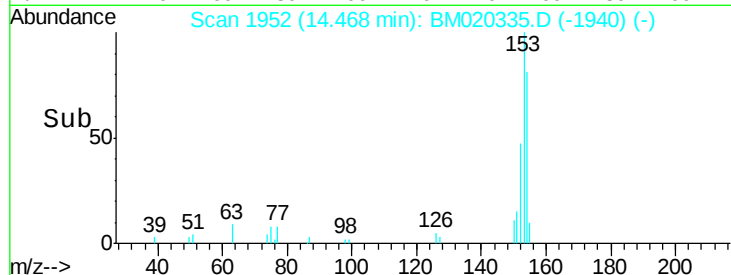
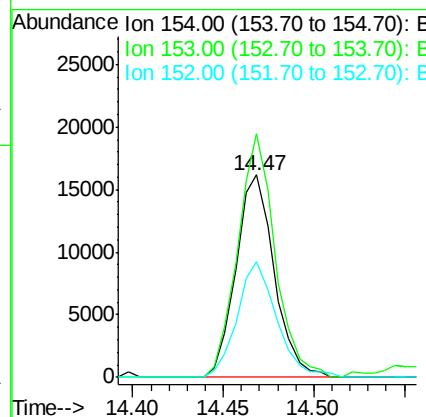
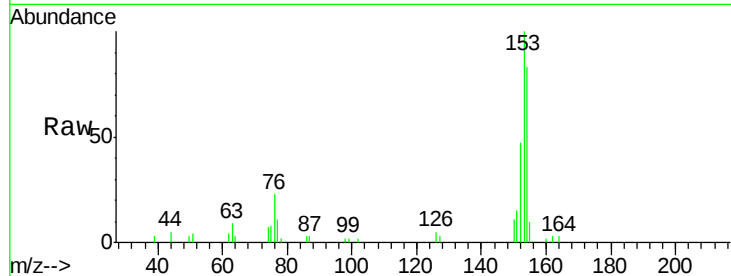
ClientSampleId :

CULVER-CBTC-WC1-051019

Tgt Ion:	154	Resp:	23740
Ion Ratio	Lower	Upper	
154	100		
153	120.3	90.2	135.2
152	57.0	43.0	64.4

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#55

Dibenzofuran

Concen: 2.698 ng

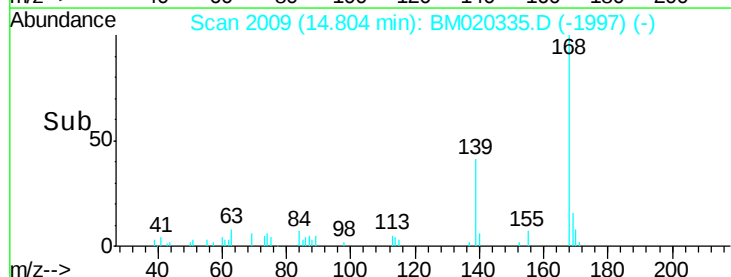
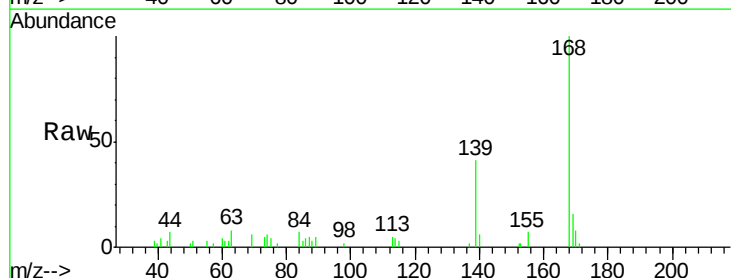
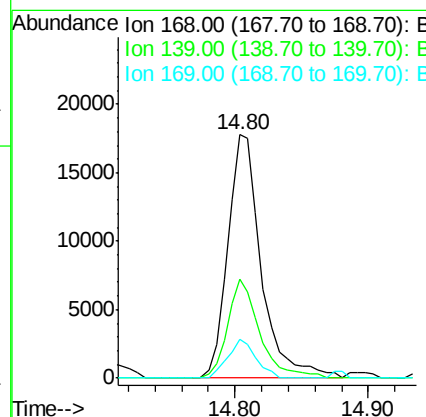
RT: 14.80 min Scan# 2009

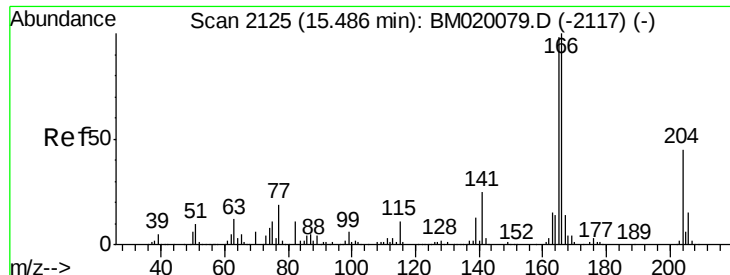
Delta R.T. -0.03 min

Lab File: BM020335.D

Acq: 14 May 2019 16:40

Tgt Ion:	168	Resp:	31160
Ion Ratio	Lower	Upper	
168	100		
139	40.6	31.1	46.7
169	15.7	10.6	16.0





#58

Fluorene

Concen: 4.600 ng

RT: 15.46 min Scan# 2120

Delta R.T. -0.03 min

Lab File: BM020335.D

Acq: 14 May 2019 16:40

Instrument :

BNA_M

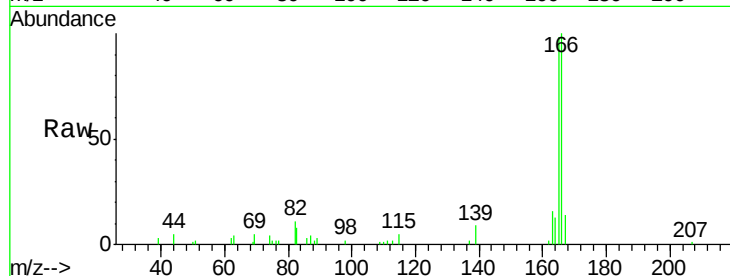
ClientSampleId :

CULVER-CBTC-WC1-051019

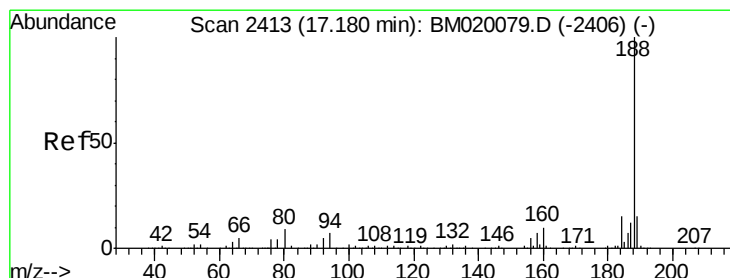
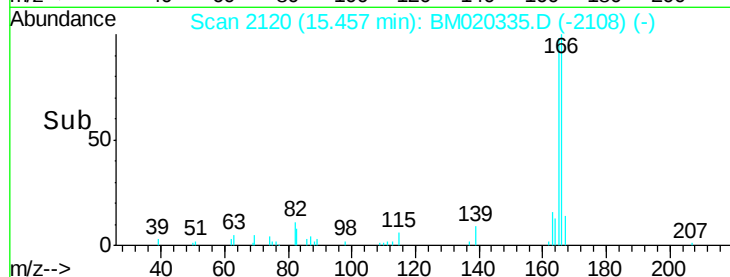
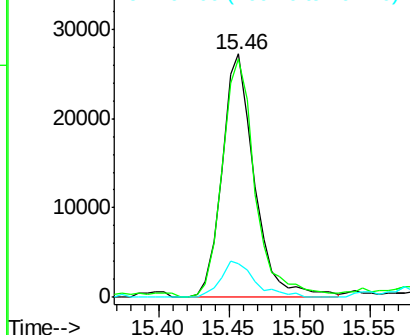
Tgt Ion:	166	Resp:	43631
Ion Ratio	Lower	Upper	
166	100		
165	98.1	78.2	117.2
167	13.9	11.0	16.4

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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



#64

Phenanthrene-d10

Concen: 20.000 ng

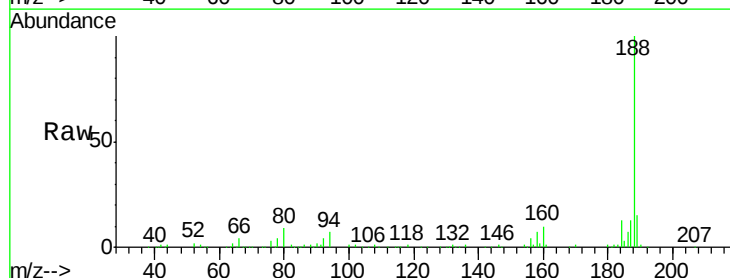
RT: 17.16 min Scan# 2409

Delta R.T. -0.02 min

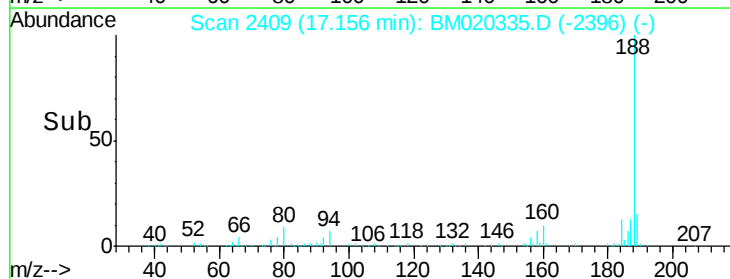
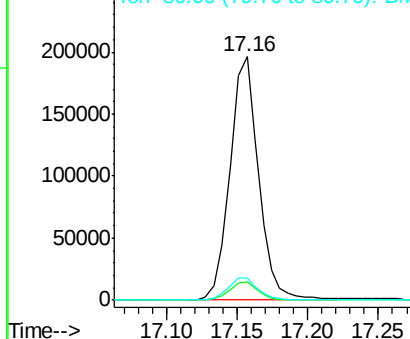
Lab File: BM020335.D

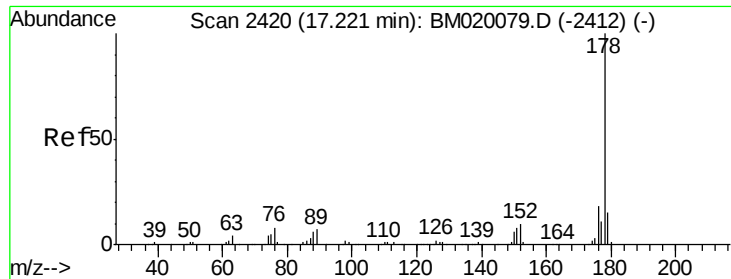
Acq: 14 May 2019 16:40

Tgt Ion:	188	Resp:	277336
Ion Ratio	Lower	Upper	
188	100		
94	7.5	5.8	8.6
80	9.0	7.4	11.2



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BM0
Ion 80.00 (79.70 to 80.70): BM0





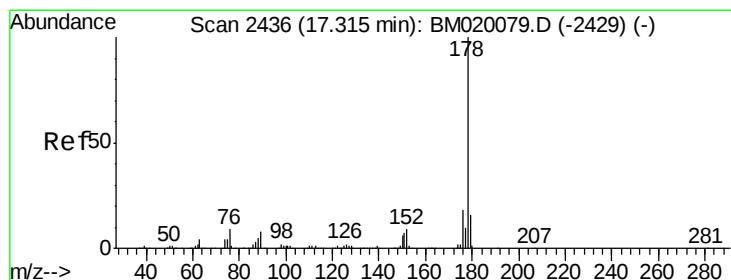
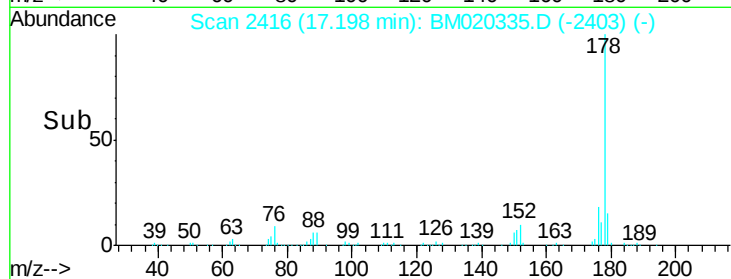
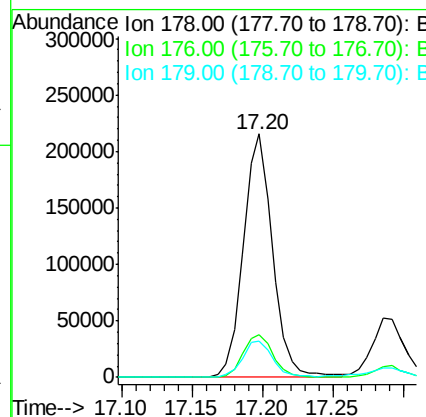
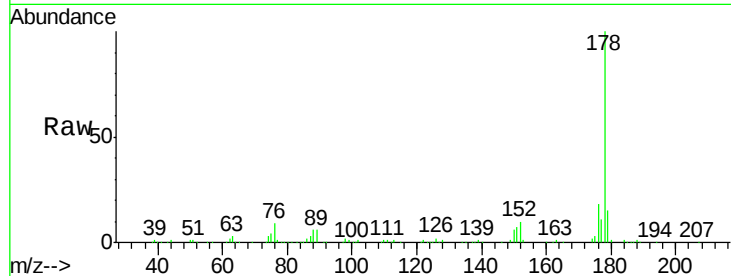
#71
Phenanthrene
Concen: 20.372 ng
RT: 17.20 min Scan# 2416
Delta R.T. -0.02 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Instrument :
BNA_M
ClientSampleId :
CULVER-CBTC-WC1-051019

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.5	14.6	21.8
179	15.1	12.4	18.6

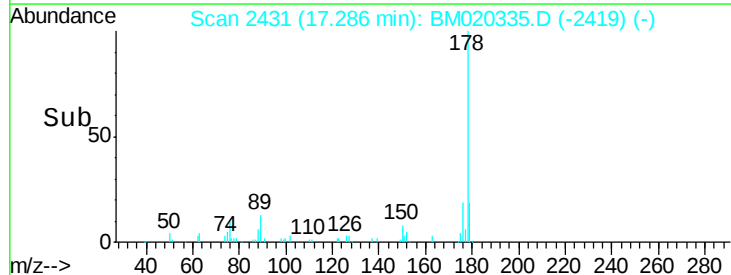
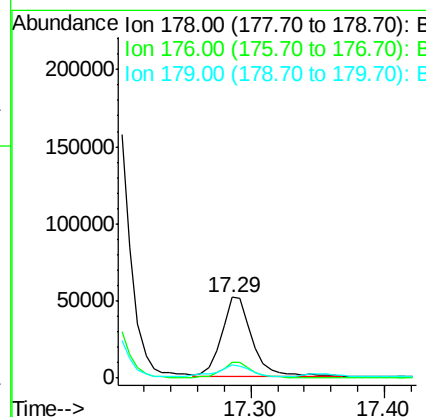
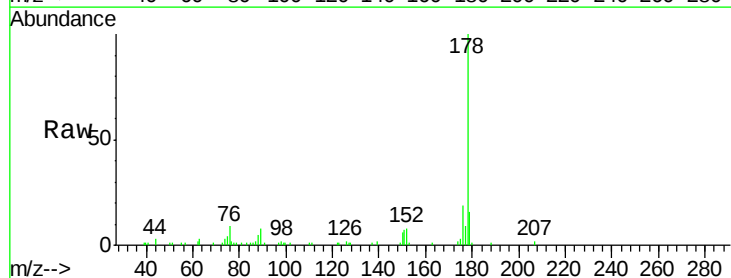
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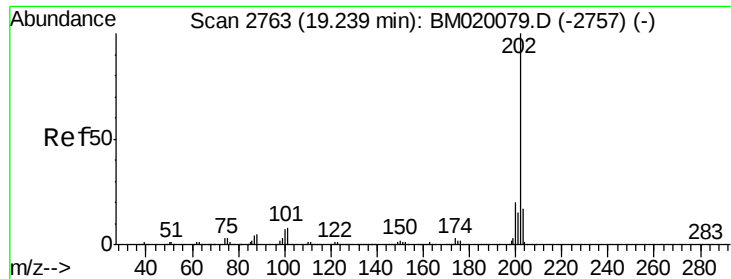
mohammad
5/15/2019 8:19:22 AM



#72
Anthracene
Concen: 5.280 ng
RT: 17.29 min Scan# 2431
Delta R.T. -0.03 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	22.0
179	16.0	12.4	18.6





#75

Fluoranthene

Concen: 20.573 ng

RT: 19.22 min Scan# 2759

Delta R.T. -0.02 min

Lab File: BM020335.D

Acq: 14 May 2019 16:40

Instrument :

BNA_M

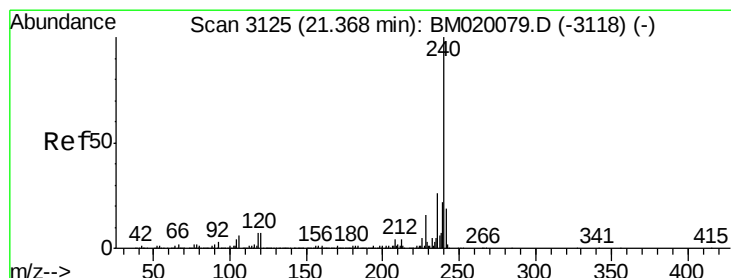
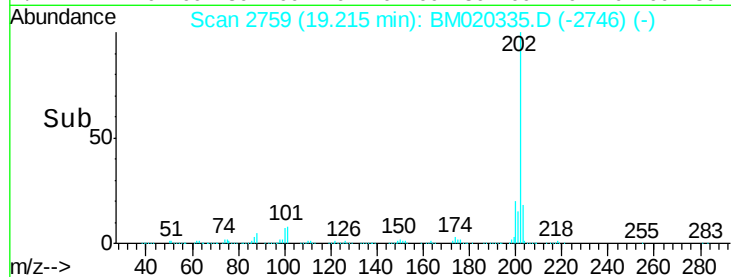
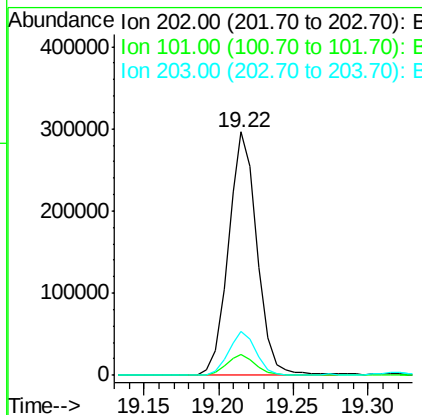
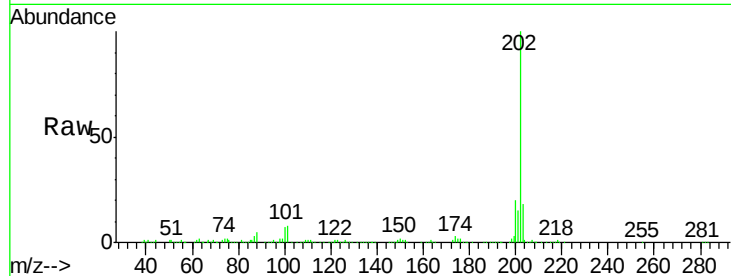
ClientSampleId :

CULVER-CBTC-WC1-051019

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	398502		
101	8.4	0.0	28.4	
203	18.1	0.0	37.4	

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#76

Chrysene-d12

Concen: 20.000 ng

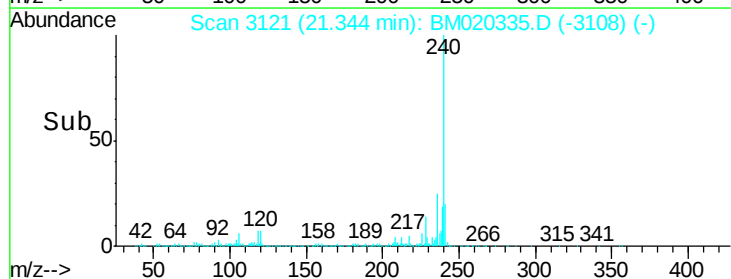
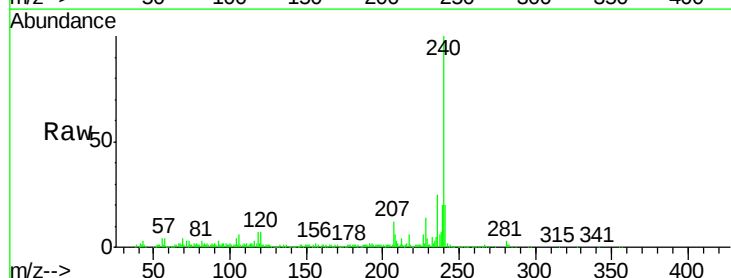
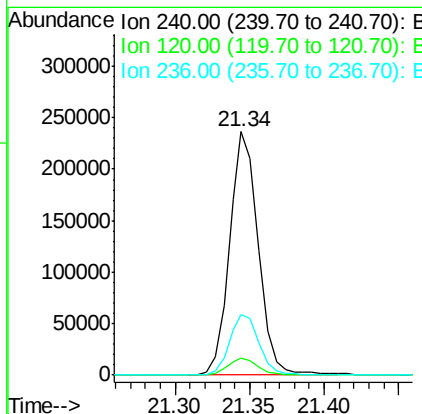
RT: 21.34 min Scan# 3121

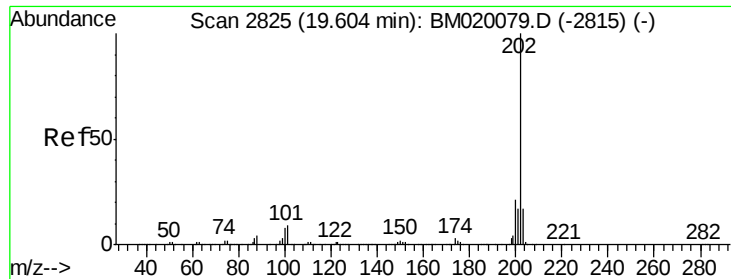
Delta R.T. -0.02 min

Lab File: BM020335.D

Acq: 14 May 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	318881		
120	7.1	5.6	8.4	
236	24.8	20.9	31.3	





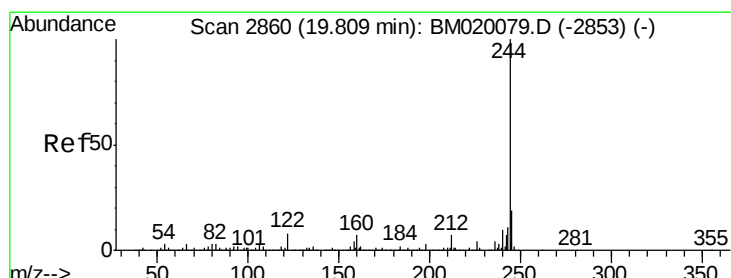
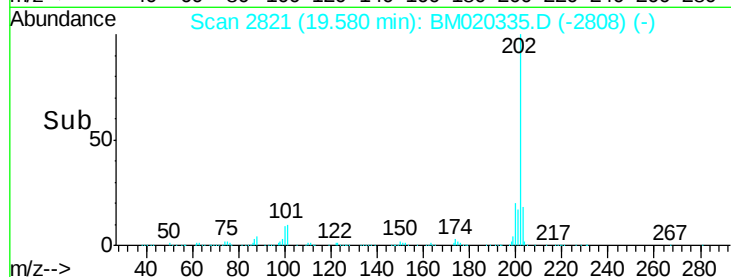
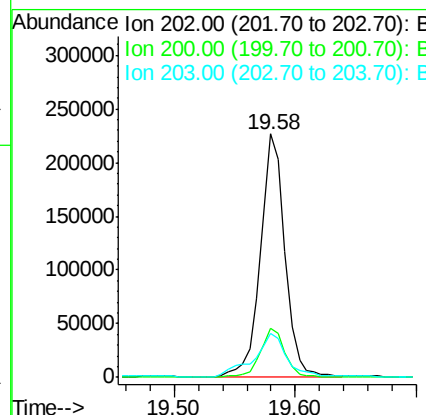
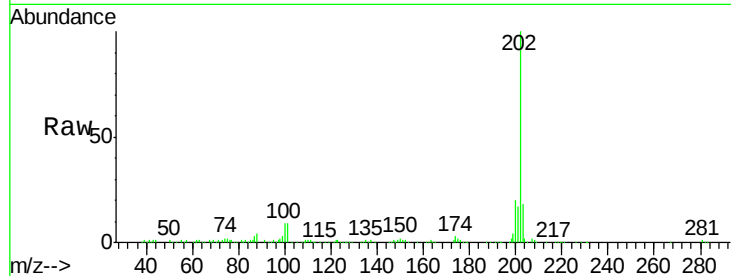
#78
 Pyrene
 Concen: 14.966 ng
 RT: 19.58 min Scan# 2821
 Delta R.T. -0.02 min
 Lab File: BM020335.D
 Acq: 14 May 2019 16:40

Instrument :
 BNA_M
 ClientSampleId :
 CULVER-CBTC-WC1-051019

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	320411		
200	20.3	16.5	24.7	
203	17.9	13.9	20.9	

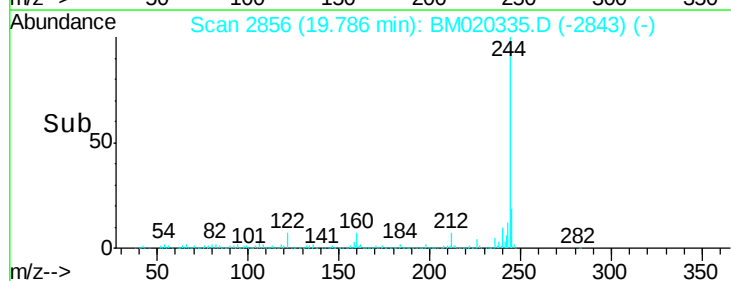
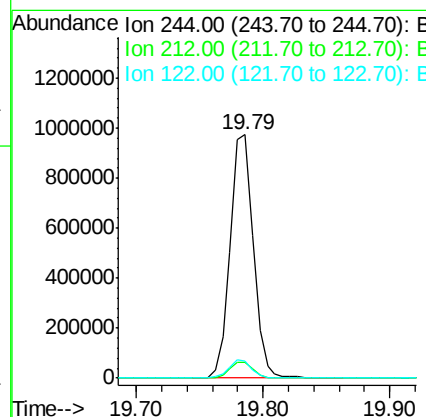
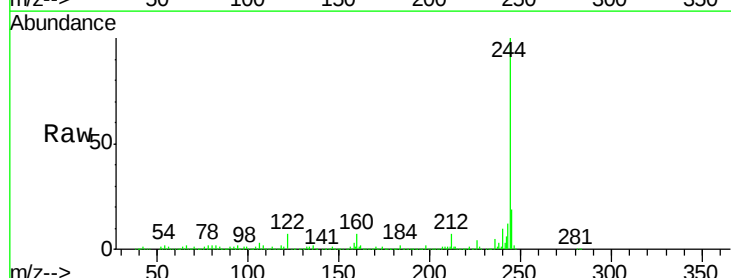
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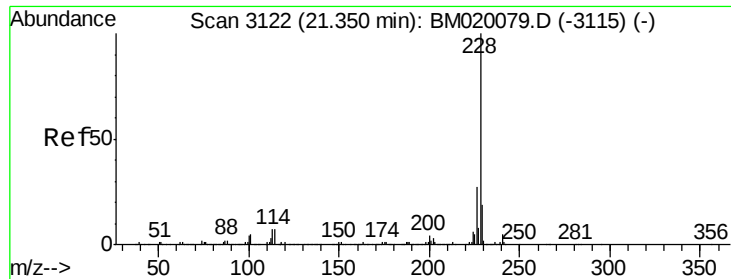
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#79
 Terphenyl-d14
 Concen: 67.453 ng
 RT: 19.79 min Scan# 2856
 Delta R.T. -0.02 min
 Lab File: BM020335.D
 Acq: 14 May 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	1233194		
212	6.7	5.7	8.5	
122	7.1	6.2	9.2	





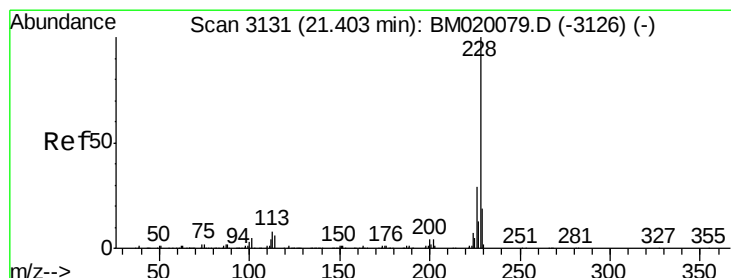
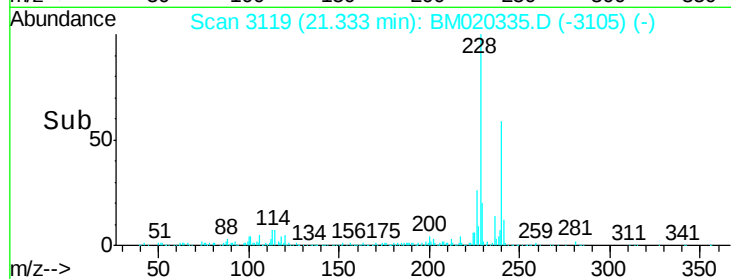
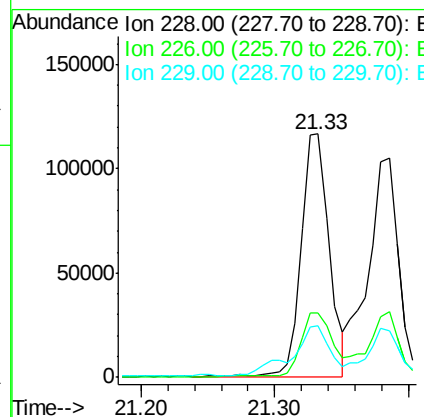
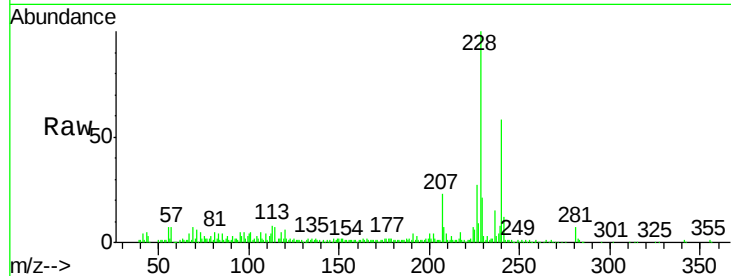
#81
Benzo(a)anthracene
Concen: 7.464 ng
RT: 21.33 min Scan# 3119
Delta R.T. -0.02 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Instrument :
BNA_M
ClientSampleId :
CULVER-CBTC-WC1-051019

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	166918		
226	26.6	21.3	31.9	
229	21.0	15.5	23.3	

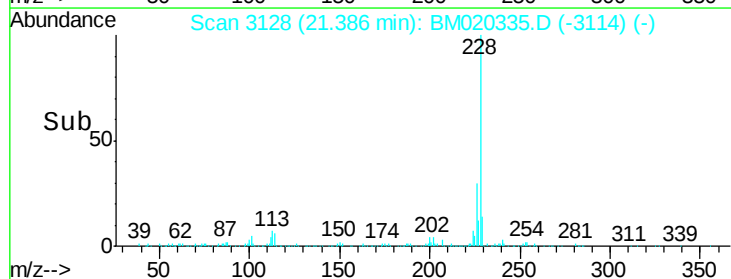
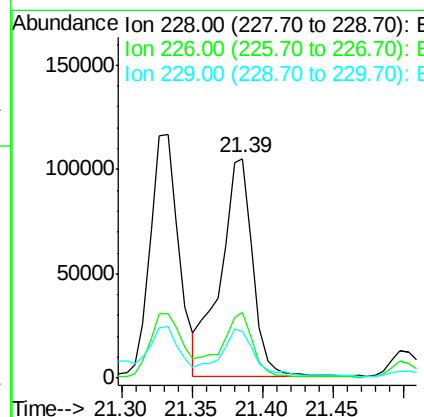
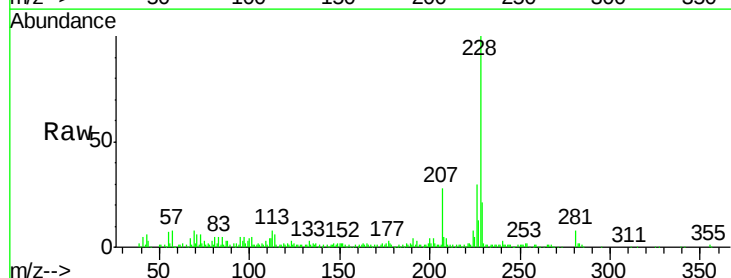
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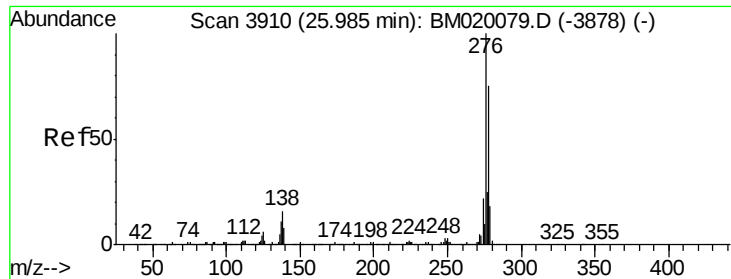
mohammad
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#83
Chrysene
Concen: 7.567 ng
RT: 21.39 min Scan# 3128
Delta R.T. -0.02 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	164124		
226	30.1	23.0	34.6	
229	21.3	15.5	23.3	





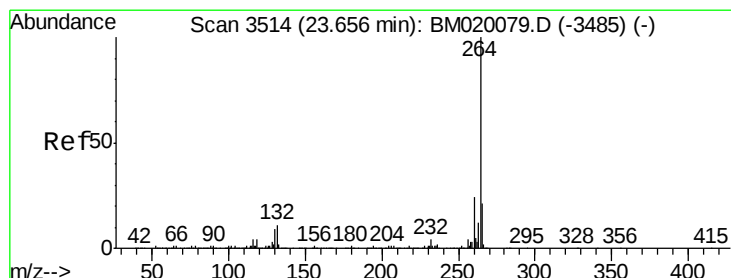
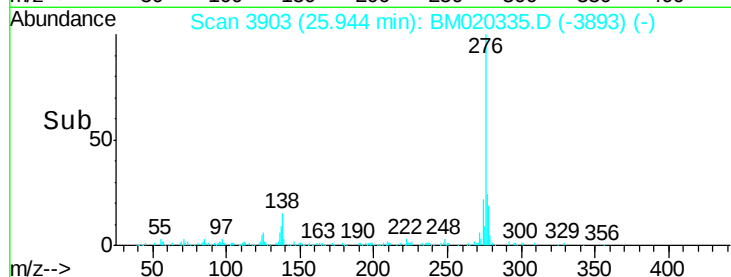
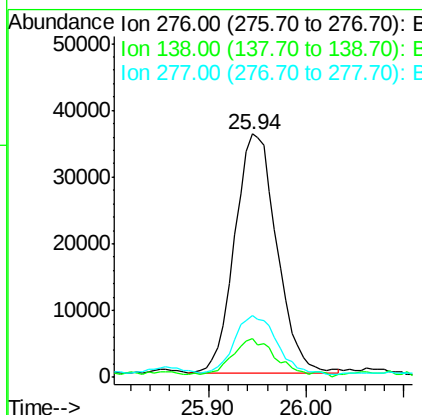
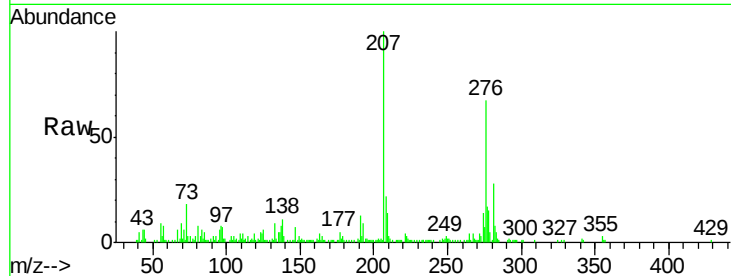
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 4.186 ng
 RT: 25.94 min Scan# 3903
 Delta R.T. -0.04 min
 Lab File: BM020335.D
 Acq: 14 May 2019 16:40

Instrument :
 BNA_M
 ClientSampleId :
 CULVER-CBTC-WC1-051019

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100				
138	14.8	0.0	0.0		
277	25.3	0.0	0.0		

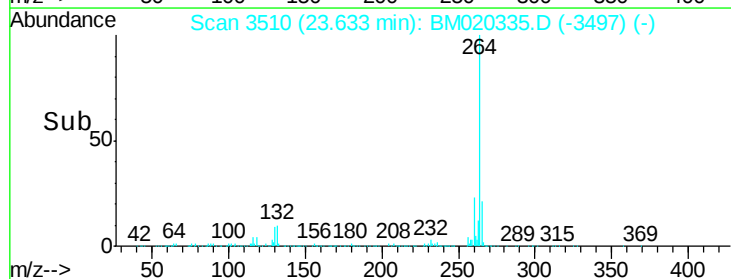
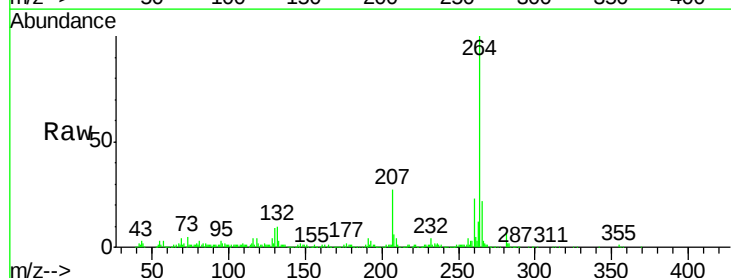
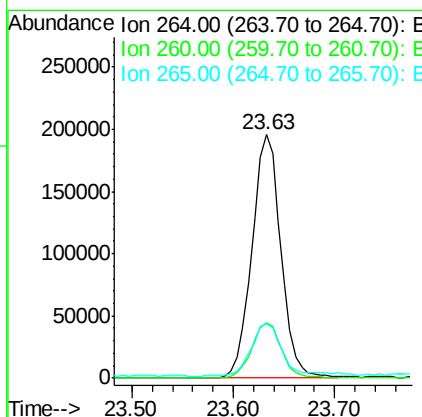
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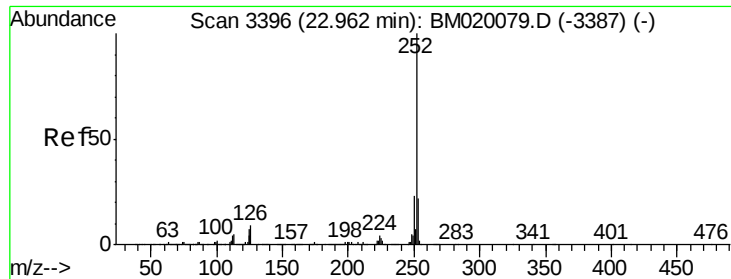
mohammad
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#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.63 min Scan# 3510
 Delta R.T. -0.02 min
 Lab File: BM020335.D
 Acq: 14 May 2019 16:40

Tgt	Ion	Ratio	Resp	Lower	Upper
264	100				
260	22.9	19.2	28.8		
265	22.3	16.9	25.3		





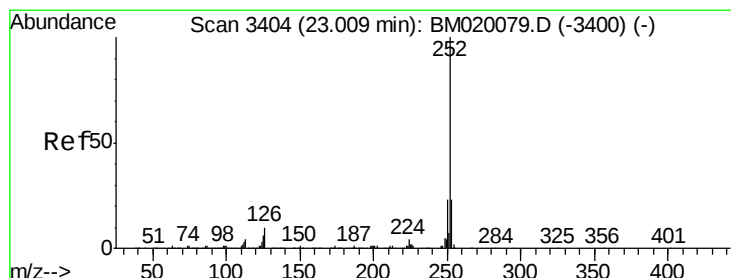
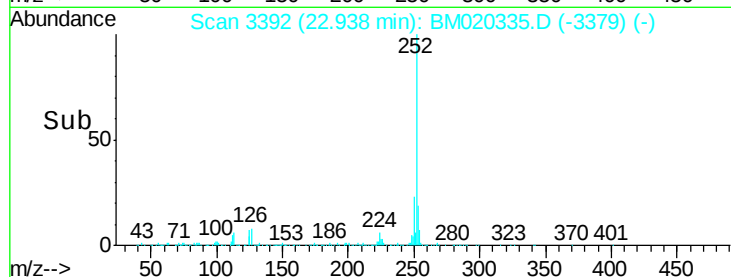
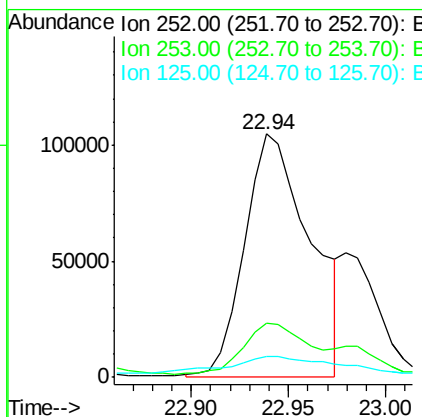
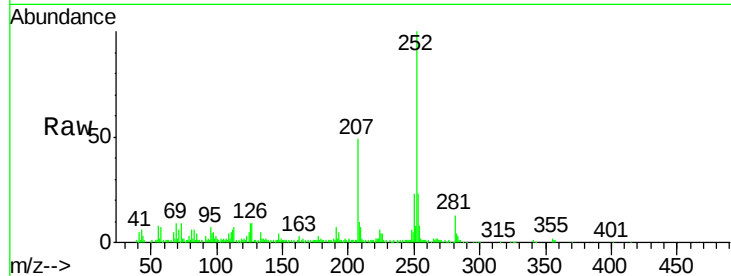
#88
Benzo(b)fluoranthene
Concen: 9.596 ng m
RT: 22.94 min Scan# 3392
Delta R.T. -0.02 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Instrument :
BNA_M
ClientSampleId :
CULVER-CBTC-WC1-051019

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	247477		
253	22.5	17.5	26.3	
125	8.6	5.4	8.2#	

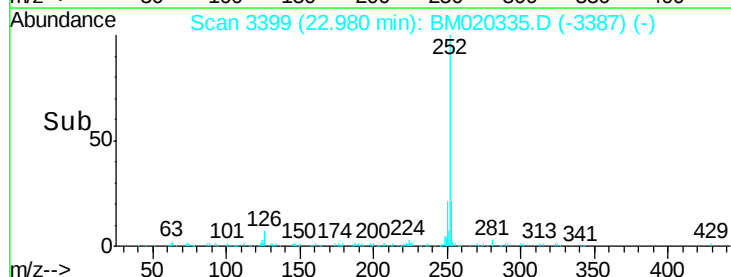
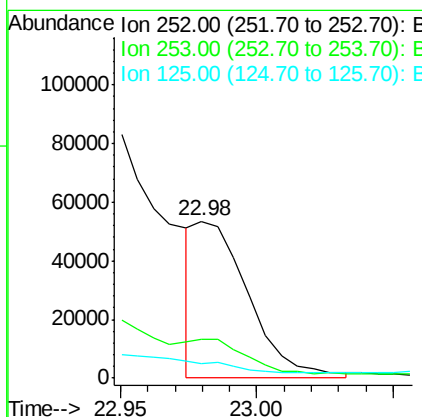
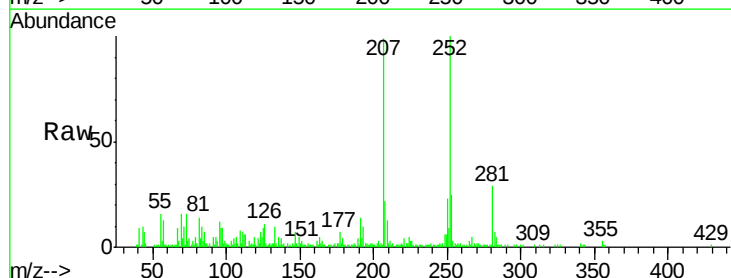
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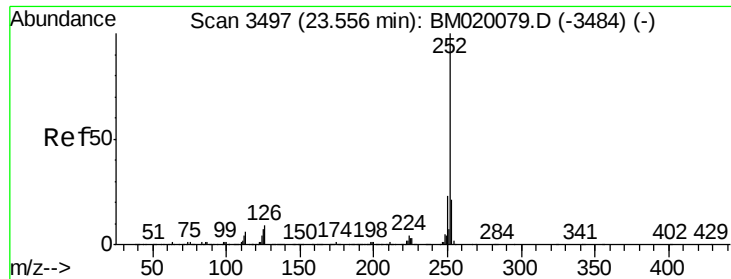
mohammad
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#89
Benzo(k)fluoranthene
Concen: 3.103 ng m
RT: 22.98 min Scan# 3399
Delta R.T. -0.03 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	72997		
253	24.7	17.8	26.8	
125	9.4	5.4	8.0#	





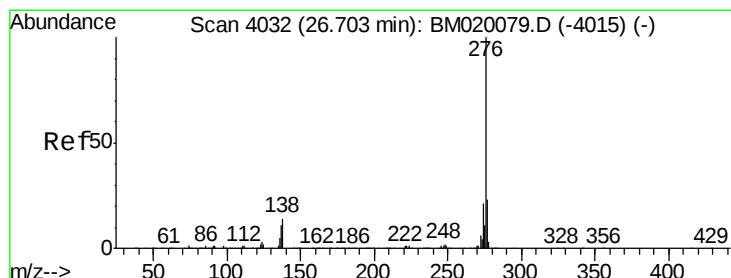
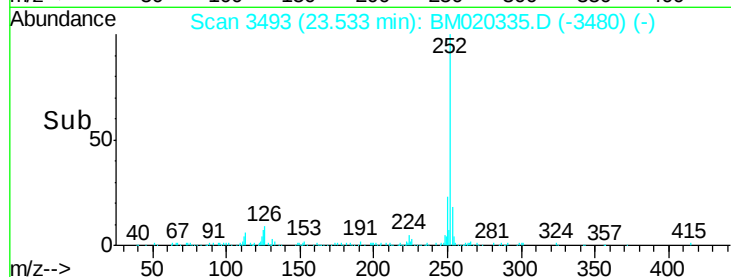
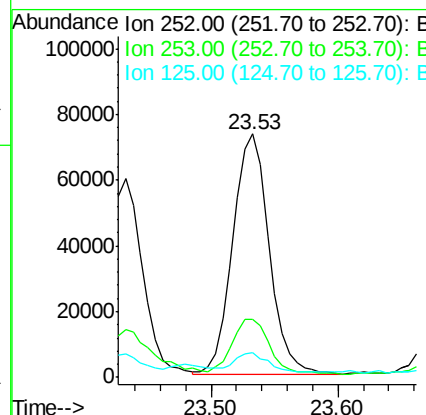
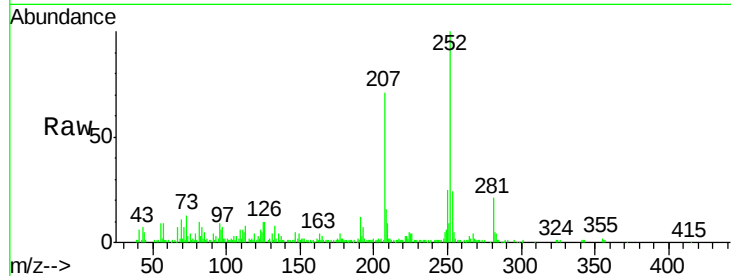
#90
Benzo(a)pyrene
Concen: 6.172 ng
RT: 23.53 min Scan# 3493
Delta R.T. -0.02 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Instrument :
BNA_M
ClientSampleId :
CULVER-CBTC-WC1-051019

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	24.0	17.0	25.6
125	10.0	5.5	8.3#

Manual Integrations
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#92
Benzo(g,h,i)perylene
Concen: 4.458 ng
RT: 26.67 min Scan# 4026
Delta R.T. -0.04 min
Lab File: BM020335.D
Acq: 14 May 2019 16:40

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	25.4	18.4	27.6
138	16.0	11.1	16.7

