

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM020320\
 Data File : BM024706.D
 Acq On : 03 Feb 2020 19:24
 Operator : CG/JU
 Sample : L1347-02
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 COMP-01

Manual Integrations
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Quant Time: Feb 04 04:09:14 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM012320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 23 14:57:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	282912	20.00	ng	-0.02
21) Naphthalene-d8	10.18	136	1056058	20.00	ng	-0.02
39) Acenaphthene-d10	14.07	164	679621	20.00	ng	-0.02
64) Phenanthrene-d10	16.83	188	1423169	20.00	ng	-0.02
76) Chrysene-d12	21.04	240	1369215	20.00	ng	-0.02
87) Perylene-d12	23.15	264	1621294	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	1550245	104.21	ng	-0.01
7) Phenol-d6	6.63	99	1937032	94.52	ng	-0.02
23) Nitrobenzene-d5	8.56	82	1232547	57.24	ng	-0.02
42) 2,4,6-Tribromophenol	15.57	330	1089191	98.52	ng	-0.02
45) 2-Fluorobiphenyl	12.69	172	2785871	55.73	ng	-0.02
79) Terphenyl-d14	19.49	244	4115632	56.12	ng	-0.02
Target Compounds						
49) Acenaphthylene	13.79	152	167724	2.698	ng	98
71) Phenanthrene	16.87	178	790119	10.252	ng	99
72) Anthracene	16.96	178	252242	3.345	ng	97
75) Fluoranthene	18.90	202	2117599	22.015	ng	99
78) Pyrene	19.26	202	1968528	21.809	ng	99
81) Benzo(a)anthracene	21.03	228	1059143m	11.145	ng	
83) Chrysene	21.07	228	1040307	11.472	ng	96
86) Indeno(1,2,3-cd)pyrene	25.21	276	671130	6.790	ng	96
88) Benzo(b)fluoranthene	22.53	252	1449471m	13.784	ng	
89) Benzo(k)fluoranthene	22.57	252	422121m	4.113	ng	
90) Benzo(a)pyrene	23.06	252	1011582	10.581	ng	96
92) Benzo(a,h,i)perylene	25.84	276	669462	8.125	ng	97

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

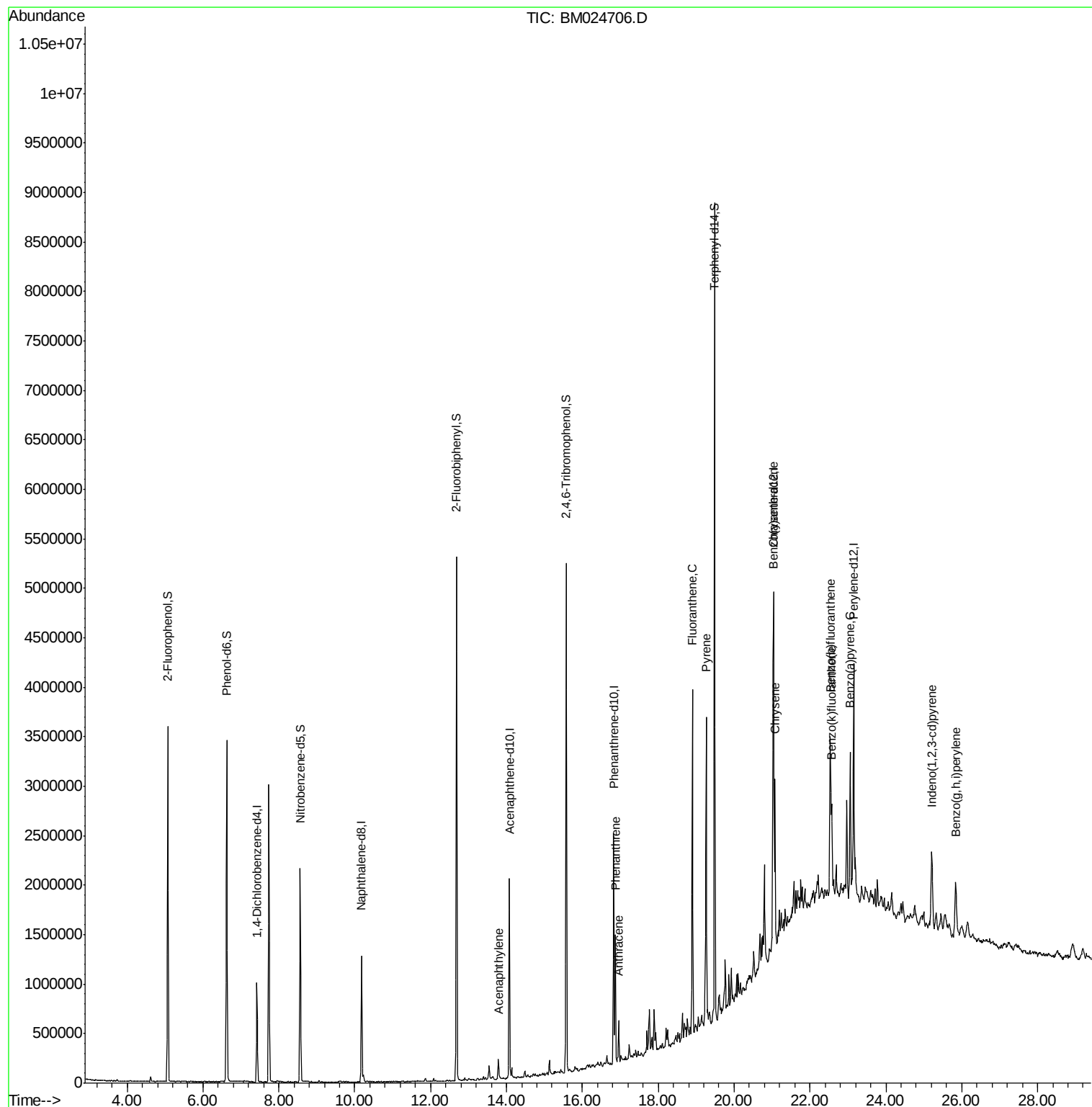
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM020320\
Data File : BM024706.D
Acq On : 03 Feb 2020 19:24
Operator : CG/JU
Sample : L1347-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

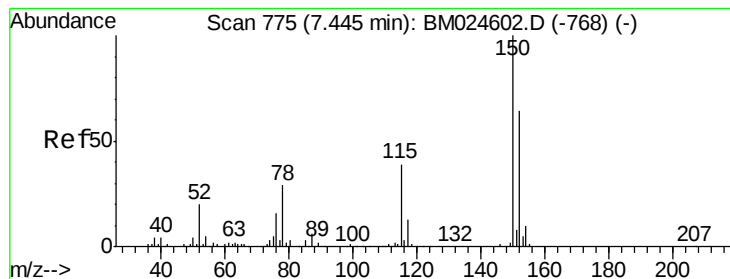
Instrument :
BNA_M
ClientSampleId :
COMP-01

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Quant Time: Feb 04 04:09:14 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM012320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 23 14:57:07 2020
Response via : Initial Calibration





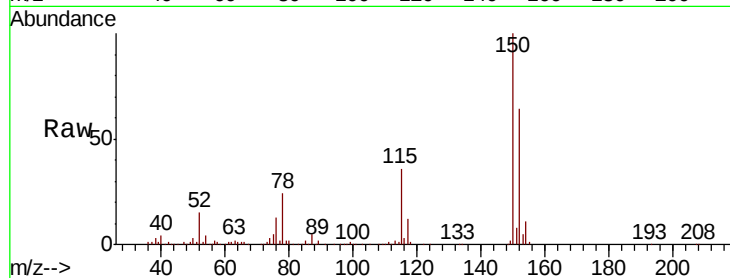
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.42 min Scan# 771
 Delta R.T. -0.02 min
 Lab File: BM024706.D
 Acq: 03 Feb 2020 19:24

Instrument :
 BNA_M
 ClientSampleId :
 COMP-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.2	186.4
115	55.9	48.6	72.8

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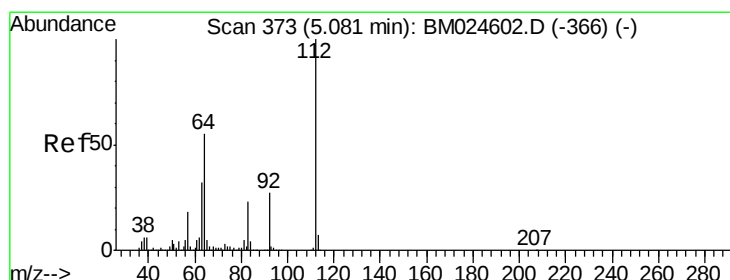
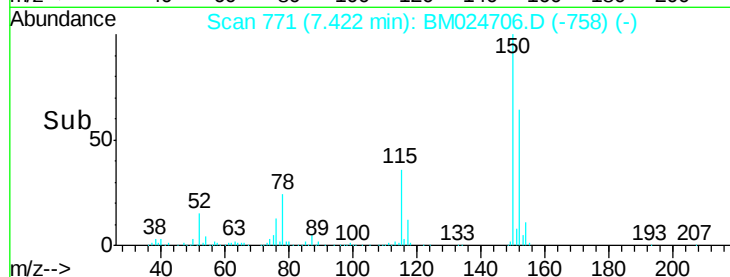
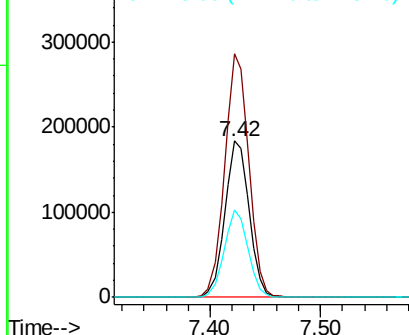


Abundance

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



#5
 2-Fluorophenol
 Concen: 104.209 ng
 RT: 5.07 min Scan# 371
 Delta R.T. -0.01 min
 Lab File: BM024706.D
 Acq: 03 Feb 2020 19:24

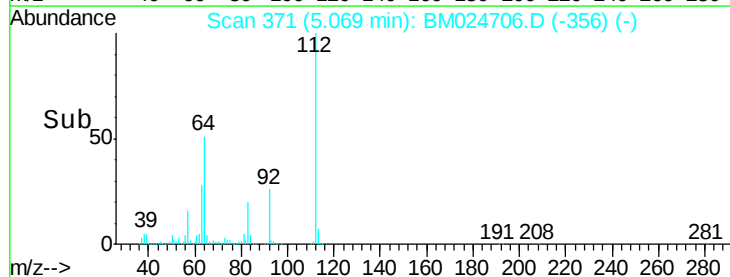
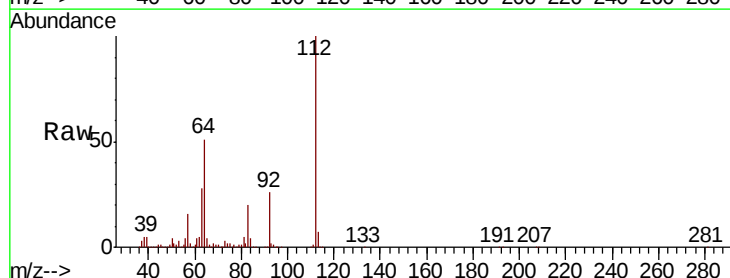
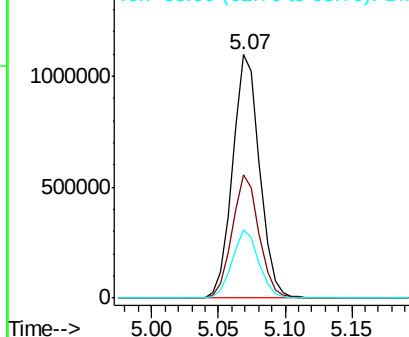
Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.8	44.2	66.4
63	28.0	25.9	38.9

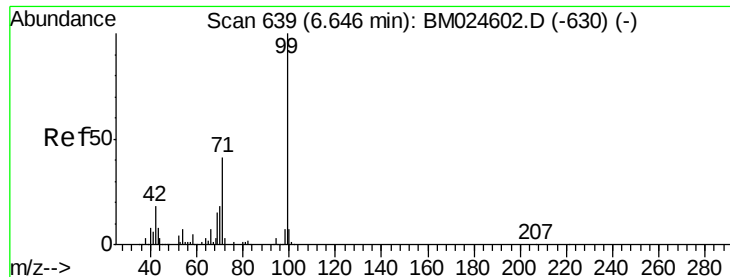
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 94.521 ng

RT: 6.63 min Scan# 636

Delta R.T. -0.02 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

Instrument :

BNA_M

ClientSampleId :

COMP-01

Tot Ion: 99 Resp: 1937032

Ion Ratio Lower Upper

99 100

42 14.4 14.1 21.1

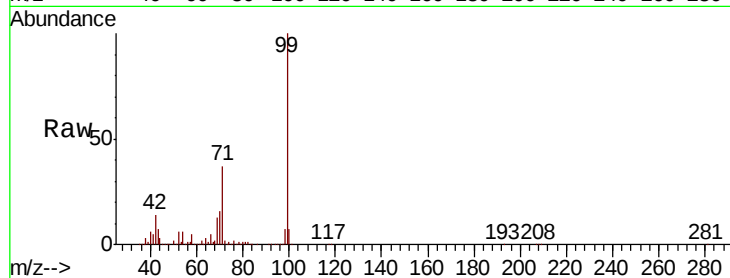
71 37.2 33.0 49.6

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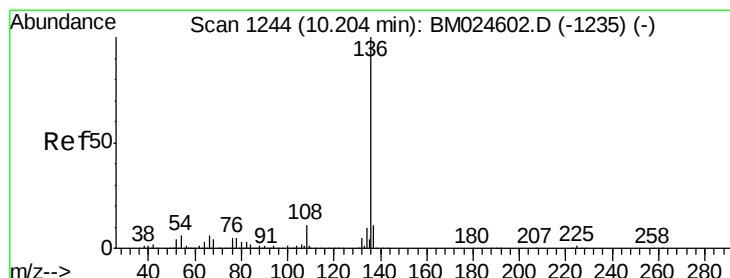
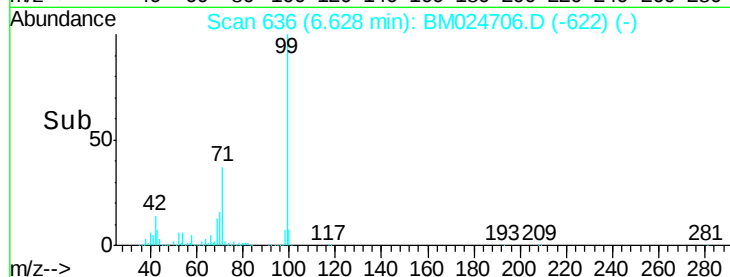
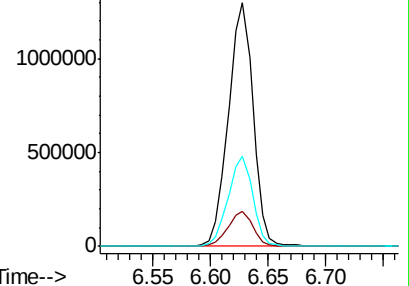
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Abundance Ion 99.00 (98.70 to 99.70): BM024706.D (-630) (-)

Ion 42.00 (41.70 to 42.70): BM024706.D (-630) (-)

Ion 71.00 (70.70 to 71.70): BM024706.D (-630) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.18 min Scan# 1240

Delta R.T. -0.02 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

Tgt Ion: 136 Resp: 1056058

Ion Ratio Lower Upper

136 100

137 10.2 8.6 13.0

54 5.0 4.5 6.7

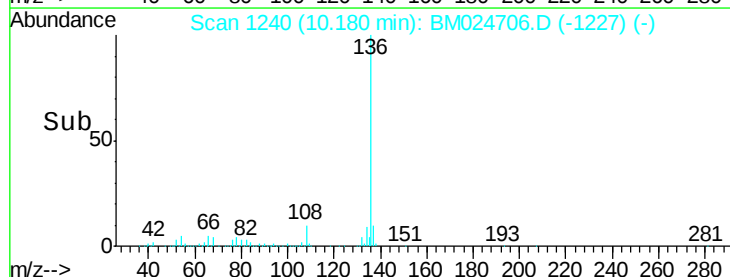
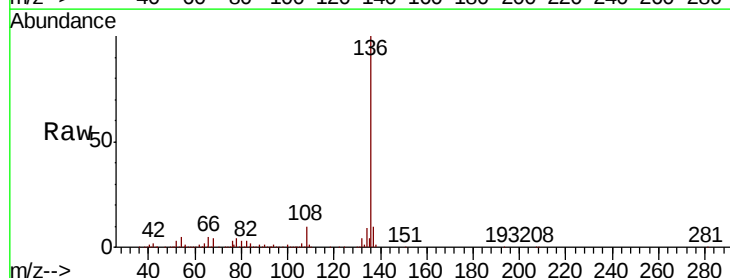
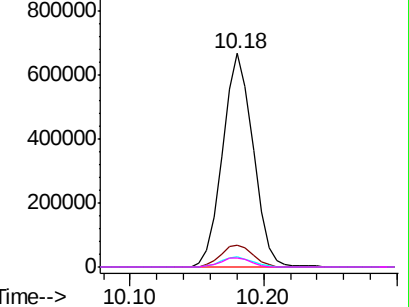
68 4.4 3.4 5.0

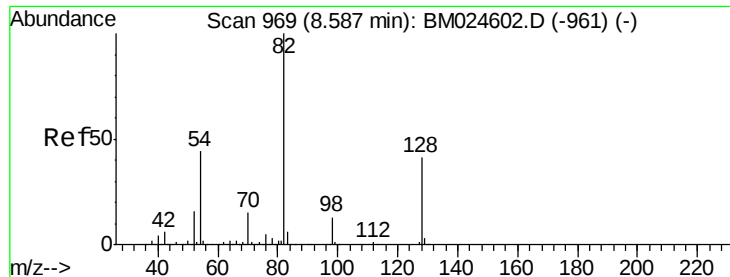
Abundance Ion 136.00 (135.70 to 136.70): BM024706.D (-1227) (-)

Ion 137.00 (136.70 to 137.70): BM024706.D (-1227) (-)

Ion 54.00 (53.70 to 54.70): BM024706.D (-1227) (-)

Ion 68.00 (67.70 to 68.70): BM024706.D (-1227) (-)





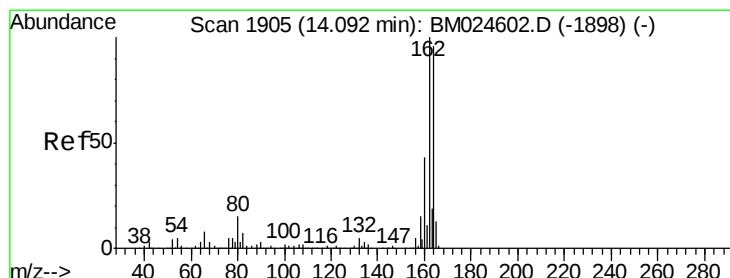
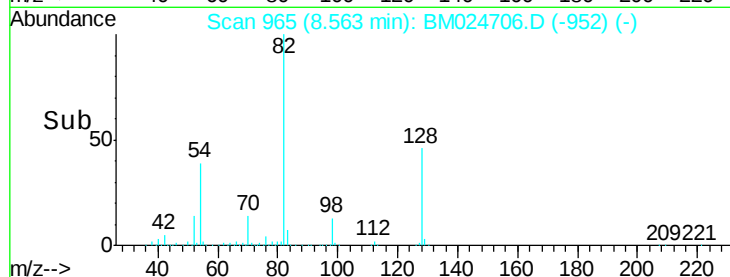
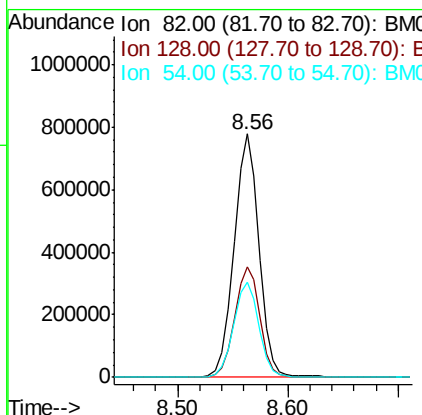
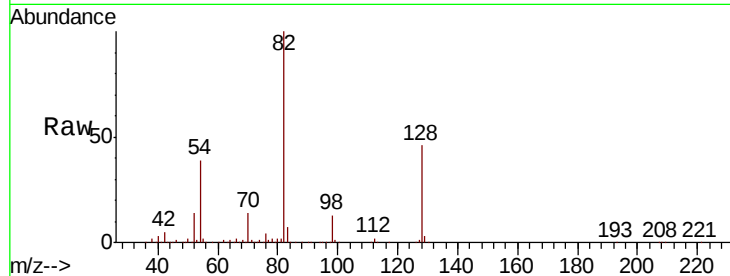
#23
 Nitrobenzene-d5
 Concen: 57.237 ng
 RT: 8.56 min Scan# 965
 Delta R.T. -0.02 min
 Lab File: BM024706.D
 Acq: 03 Feb 2020 19:24

Instrument :
 BNA_M
 ClientSampled :
 COMP-01

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.6	32.6	48.8
54	39.1	34.8	52.2

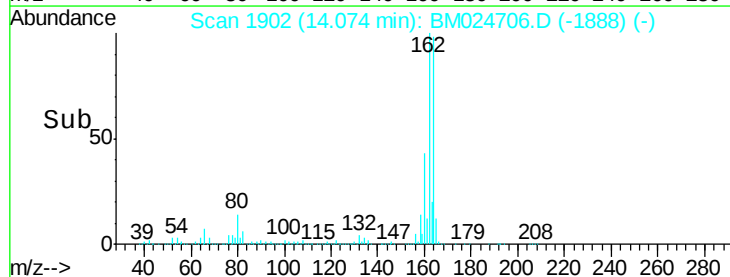
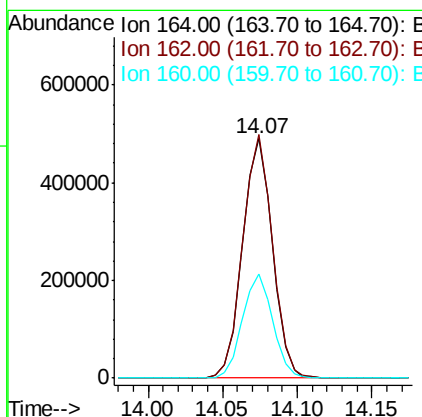
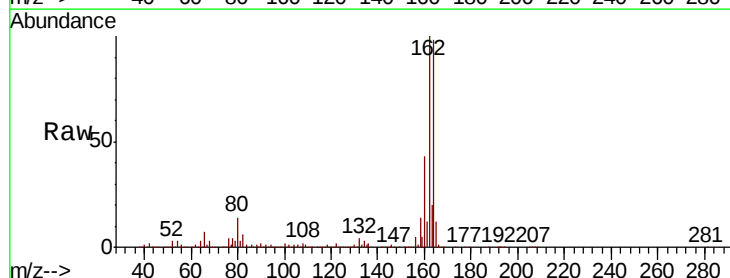
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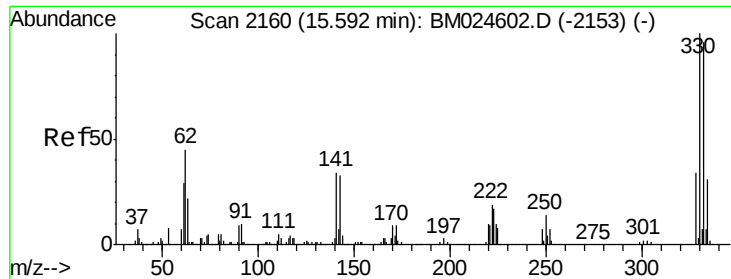
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#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.07 min Scan# 1902
 Delta R.T. -0.02 min
 Lab File: BM024706.D
 Acq: 03 Feb 2020 19:24

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.7	82.9	124.3
160	43.4	35.5	53.3





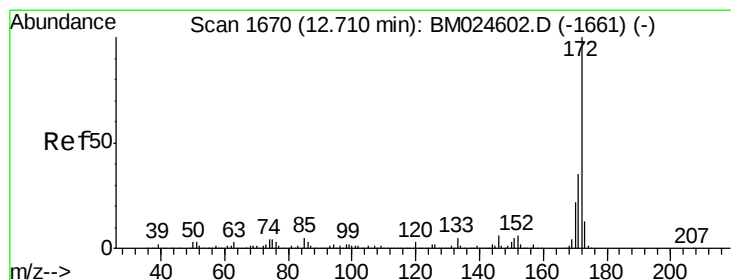
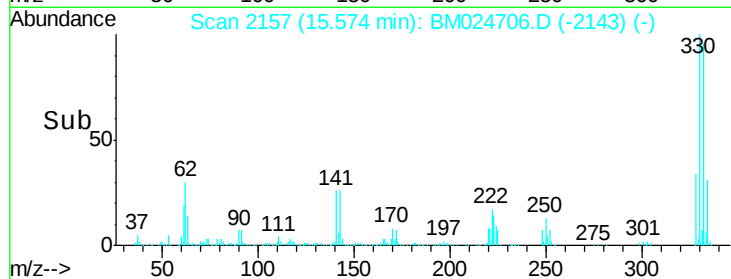
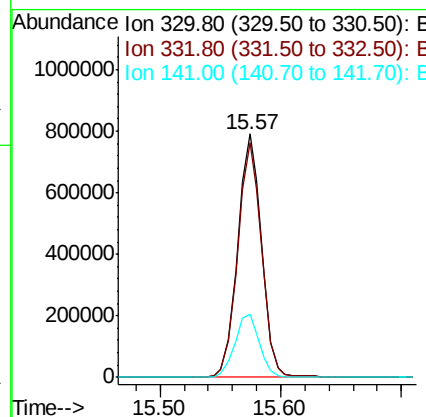
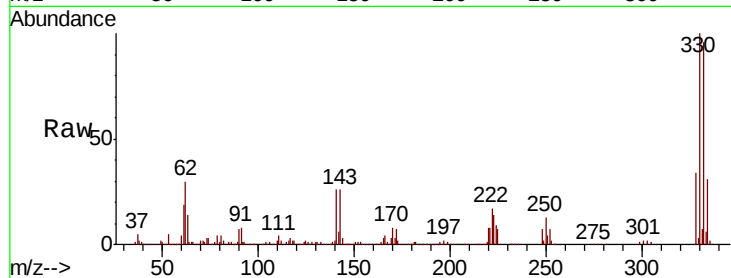
#42
 2,4,6-Tribromophenol
 Concen: 98.524 ng
 RT: 15.57 min Scan# 2157
 Delta R.T. -0.02 min
 Lab File: BM024706.D
 Acq: 03 Feb 2020 19:24

Instrument :
 BNA_M
 ClientSampled :
 COMP-01

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.2	115.8
141	26.8	26.9	40.3#

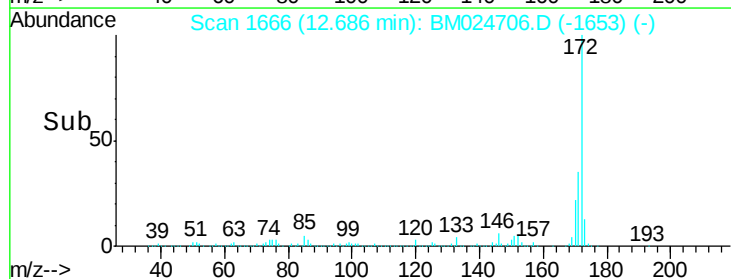
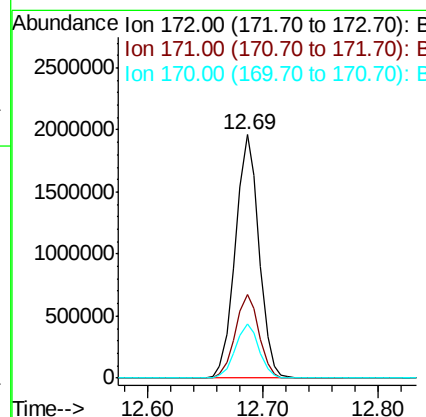
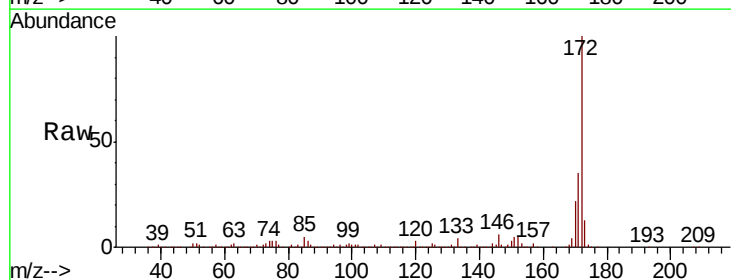
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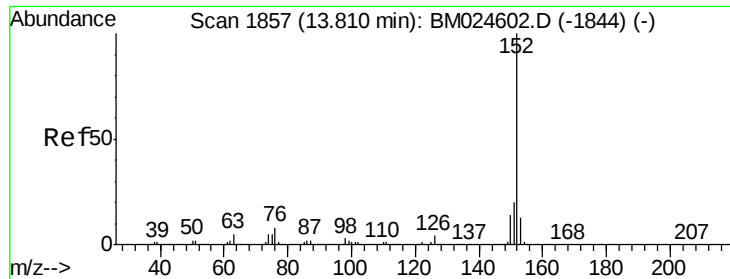
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#45
 2-Fluorobiphenyl
 Concen: 55.728 ng
 RT: 12.69 min Scan# 1666
 Delta R.T. -0.02 min
 Lab File: BM024706.D
 Acq: 03 Feb 2020 19:24

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.3	42.5
170	22.3	17.9	26.9





#49

Acenaphthylene

Concen: 2.698 ng

RT: 13.79 min Scan# 1854

Delta R.T. -0.02 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

Instrument :

BNA_M

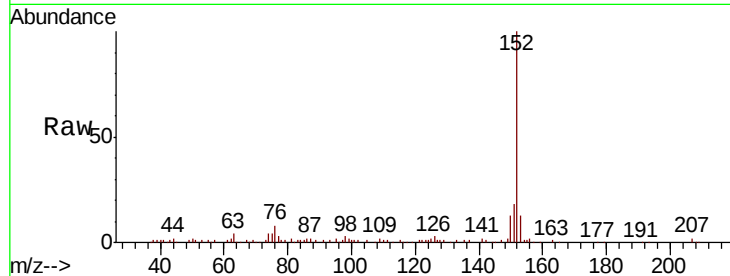
ClientSampled :

COMP-01

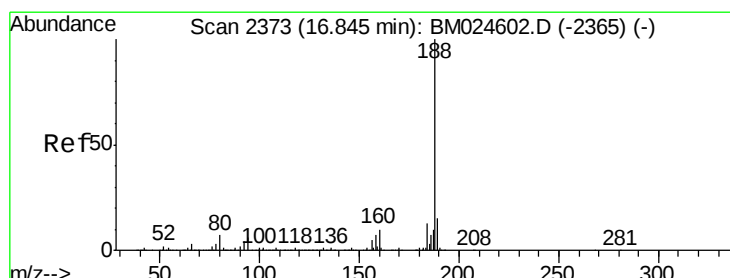
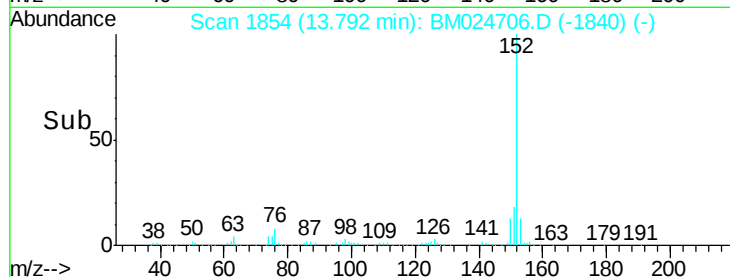
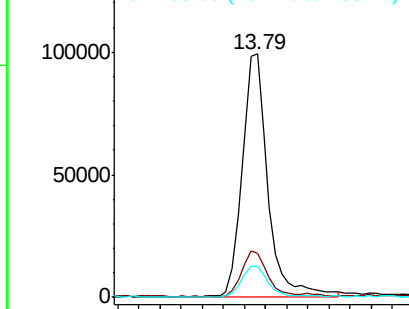
Tot Ion:	152	Resp:	167724
Ion Ratio	Lower	Upper	
152	100		
151	18.1	15.8	23.6
153	13.0	10.4	15.6

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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



#64

Phenanthrene-d10

Concen: 20.000 ng

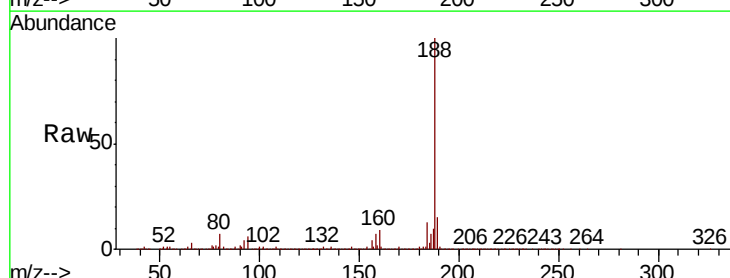
RT: 16.83 min Scan# 2370

Delta R.T. -0.02 min

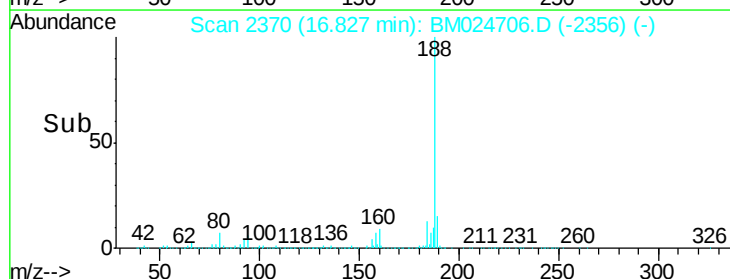
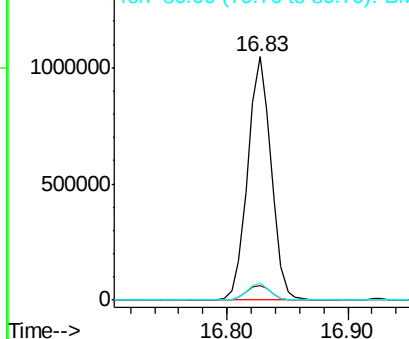
Lab File: BM024706.D

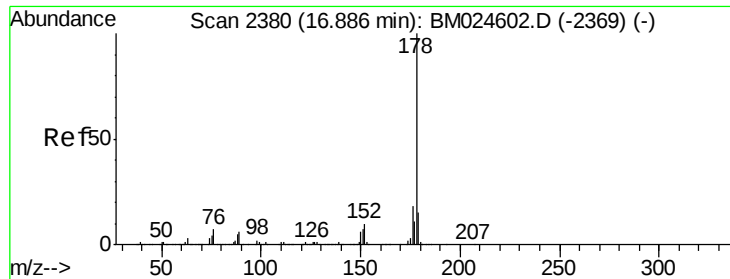
Acq: 03 Feb 2020 19:24

Tgt Ion:	188	Resp:	1423169
Ion Ratio	Lower	Upper	
188	100		
94	5.9	5.0	7.6
80	6.9	5.8	8.8



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: 10.252 ng

RT: 16.87 min Scan# 2377

Delta R.T. -0.02 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

Instrument :

BNA_M

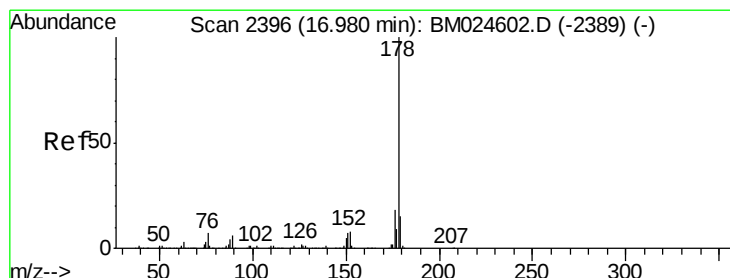
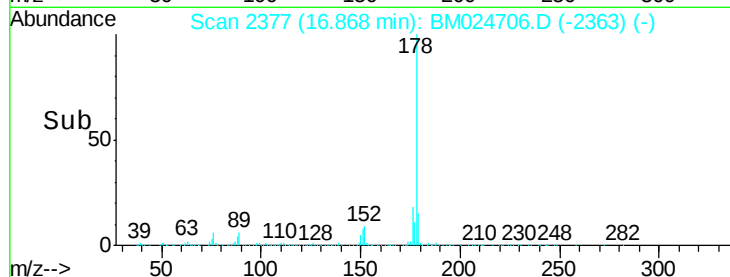
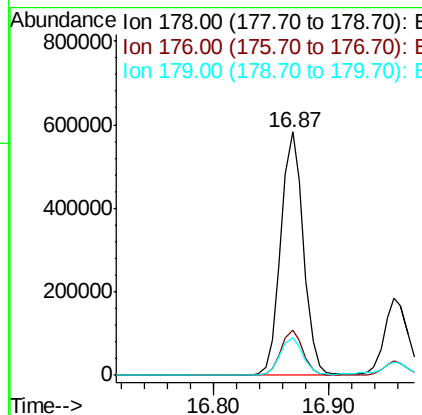
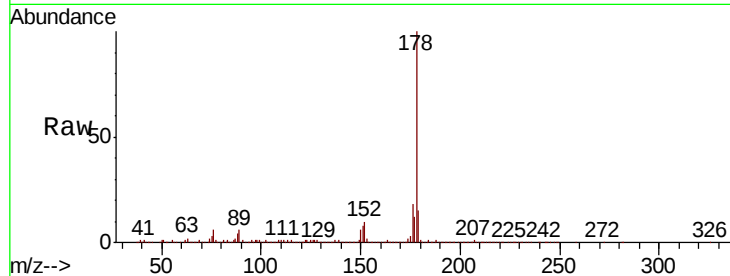
ClientSampleId :

COMP-01

Tot Ion:	178	Resp:	790119
Ion Ratio	Lower	Upper	
178	100		
176	18.4	14.5	21.7
179	15.5	11.9	17.9

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#72

Anthracene

Concen: 3.345 ng

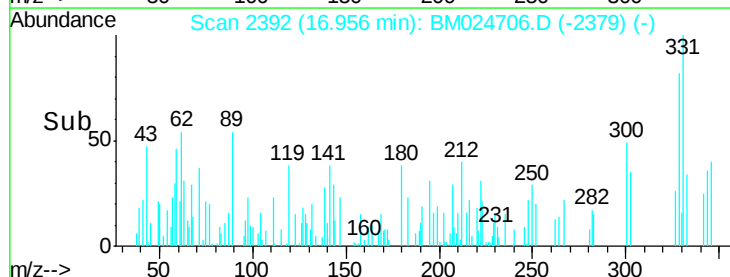
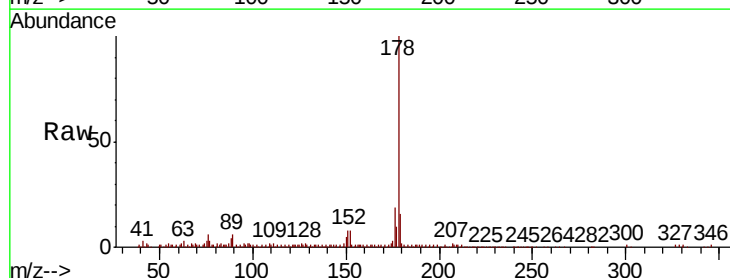
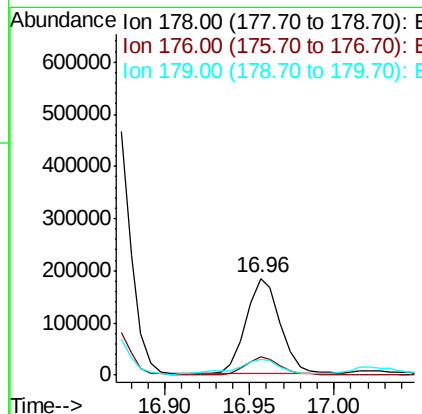
RT: 16.96 min Scan# 2392

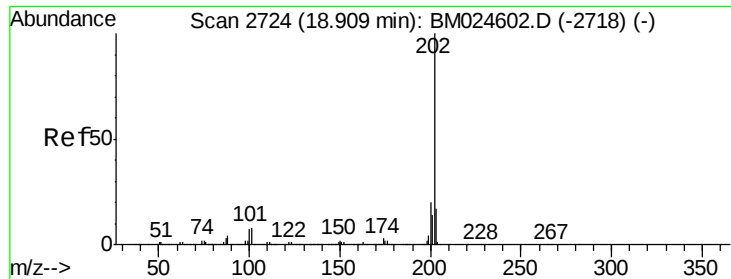
Delta R.T. -0.02 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

Tgt Ion:	178	Resp:	252242
Ion Ratio	Lower	Upper	
178	100		
176	18.8	14.3	21.5
179	16.5	12.1	18.1





#75

Fluoranthene

Concen: 22.015 ng

RT: 18.90 min Scan# 2722

Delta R.T. -0.01 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

Instrument :

BNA_M

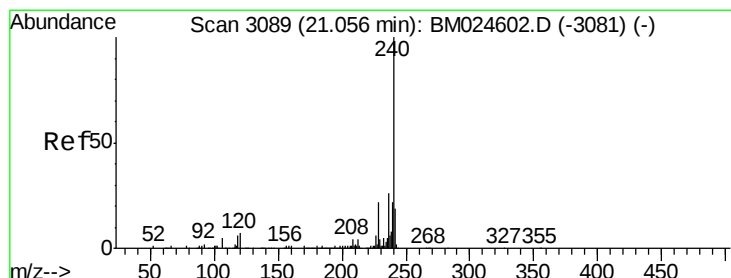
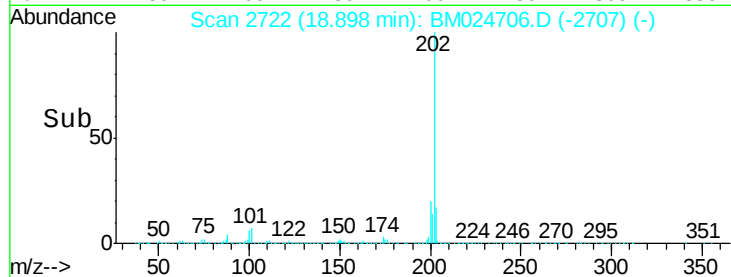
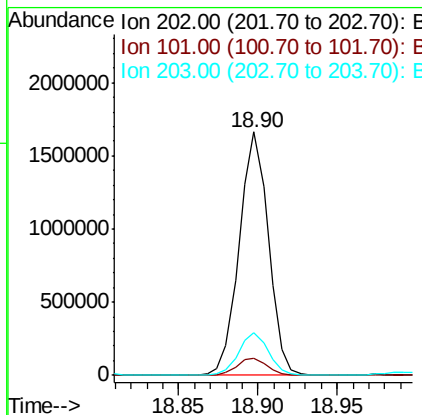
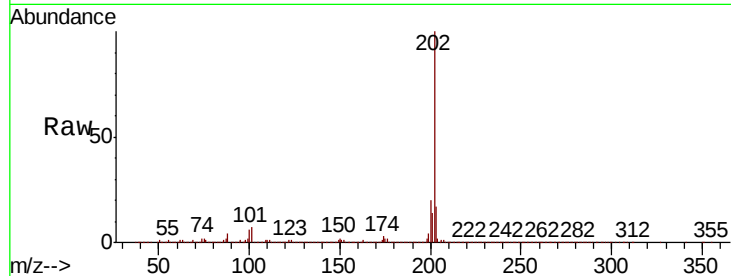
ClientSampleId :

COMP-01

Tot Ion:	202	Resp:	2117599
Ion	Ratio	Lower	Upper
202	100		
101	7.2	0.0	28.4
203	17.5	0.0	37.5

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#76

Chrysene-d12

Concen: 20.000 ng

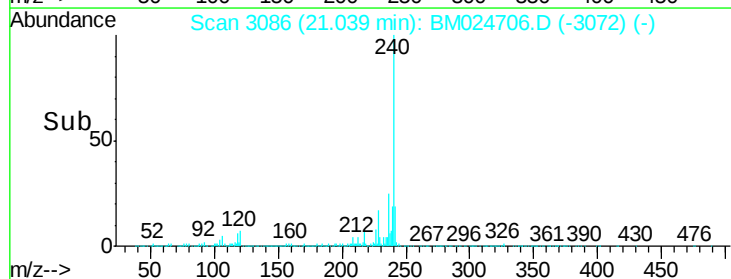
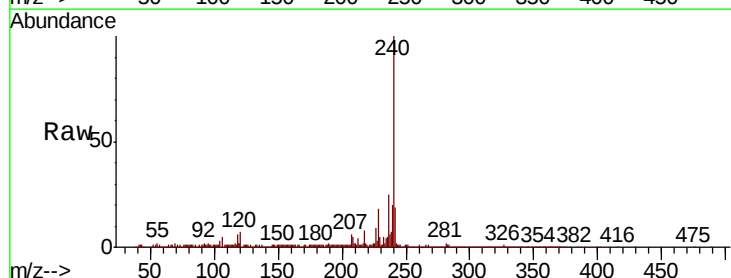
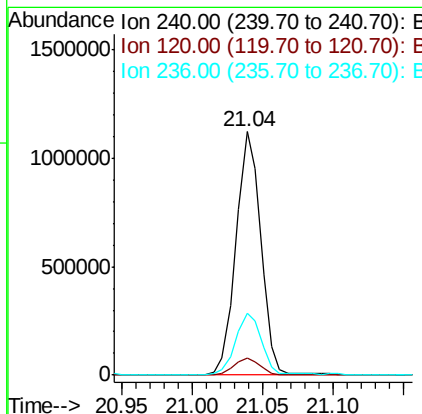
RT: 21.04 min Scan# 3086

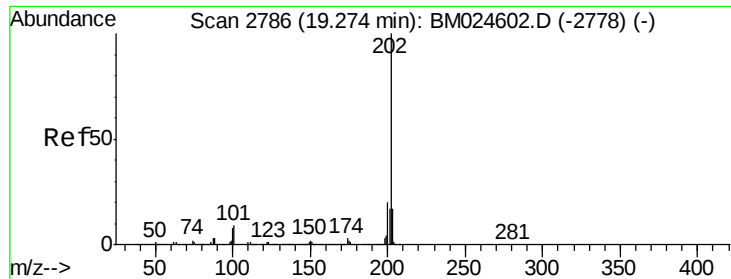
Delta R.T. -0.02 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

Tgt Ion:	240	Resp:	1369215
Ion	Ratio	Lower	Upper
240	100		
120	7.0	5.3	7.9
236	25.4	20.6	31.0





#78

Pvrene

Concen: 21.809 ng

RT: 19.26 min Scan# 2784

Delta R.T. -0.01 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

Instrument :

BNA_M

ClientSampleId :

COMP-01

Tot Ion:202 Resp: 1968528

Ion Ratio Lower Upper

202 100

200 20.4 16.2 24.2

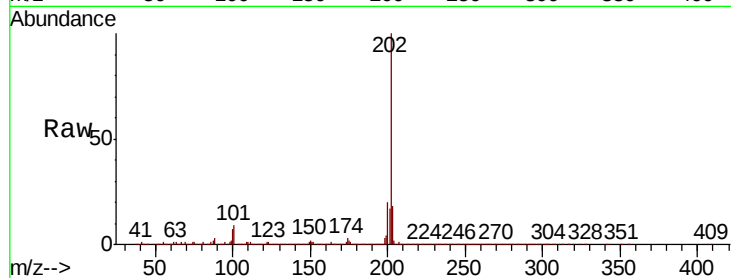
203 17.7 14.0 21.0

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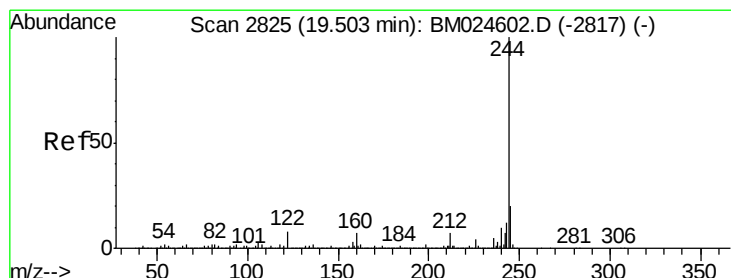
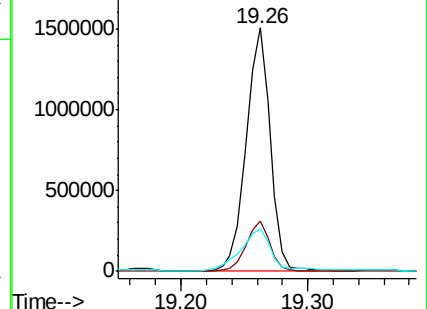
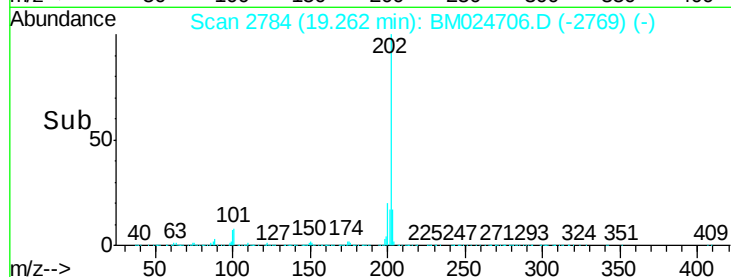
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 56.116 ng

RT: 19.49 min Scan# 2822

Delta R.T. -0.02 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

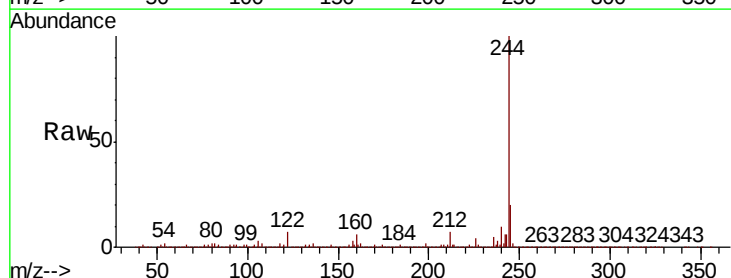
Tgt Ion:244 Resp: 4115632

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

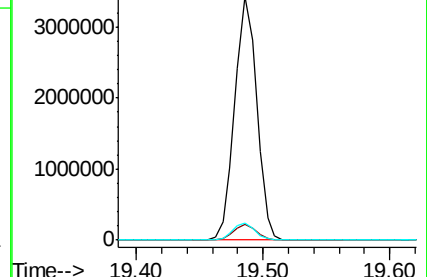
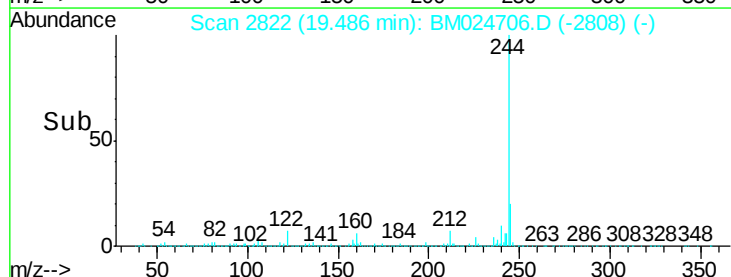
122 7.0 6.2 9.4

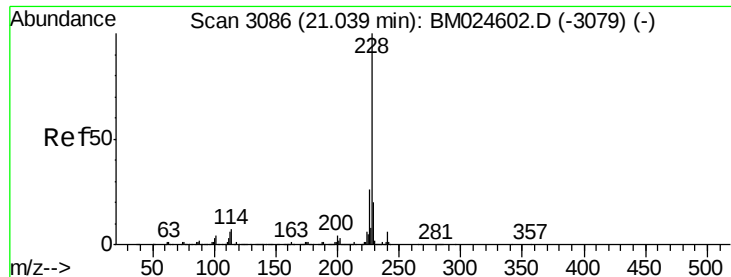


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 11.145 ng

RT: 21.03 min Scan# 3084

Delta R.T. -0.01 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

Instrument :

BNA_M

ClientSampled :

COMP-01

Tot Ion:228 Resp: 1059143

Ion Ratio Lower Upper

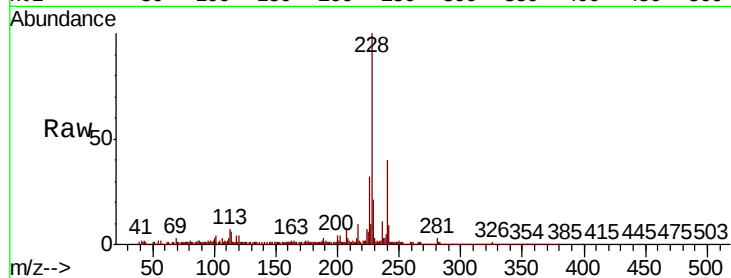
228 100

226 31.9 21.1 31.7#

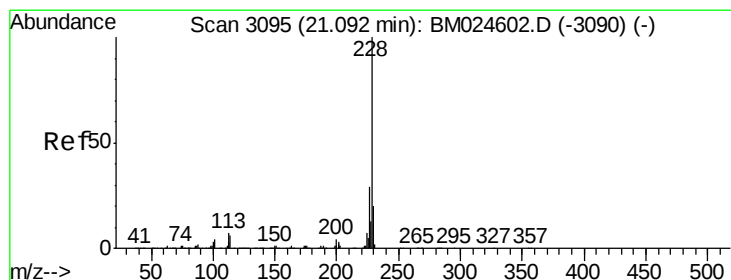
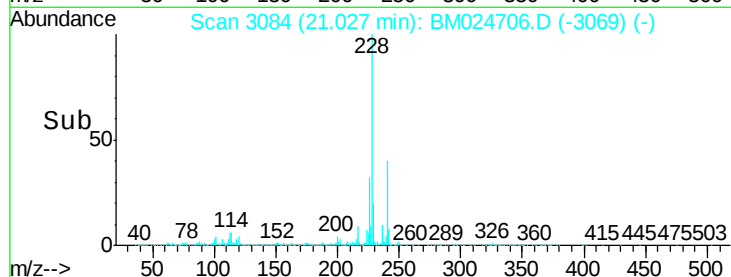
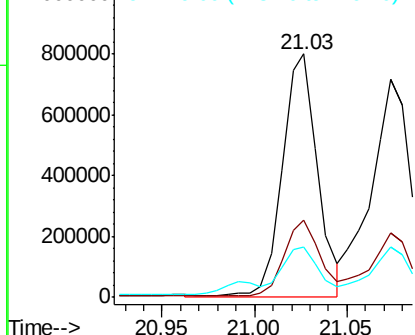
229 20.8 15.8 23.6

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 11.472 ng

RT: 21.07 min Scan# 3092

Delta R.T. -0.02 min

Lab File: BM024706.D

Acq: 03 Feb 2020 19:24

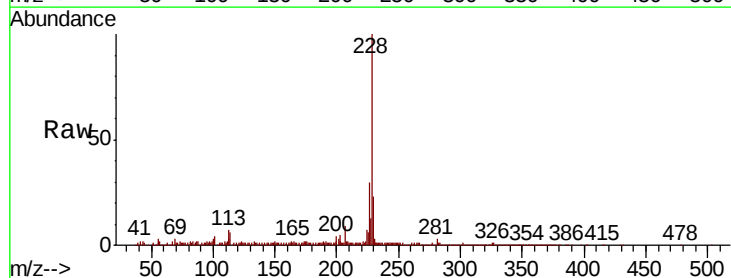
Tgt Ion:228 Resp: 1040307

Ion Ratio Lower Upper

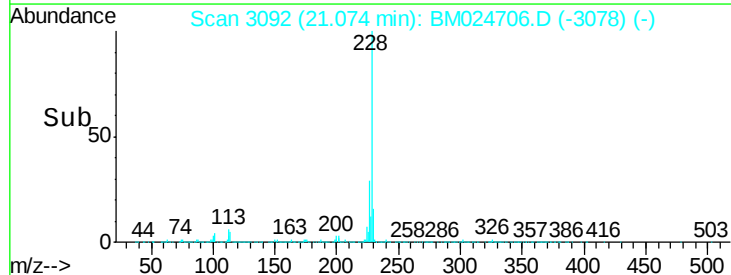
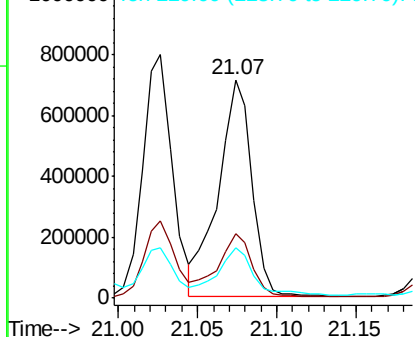
228 100

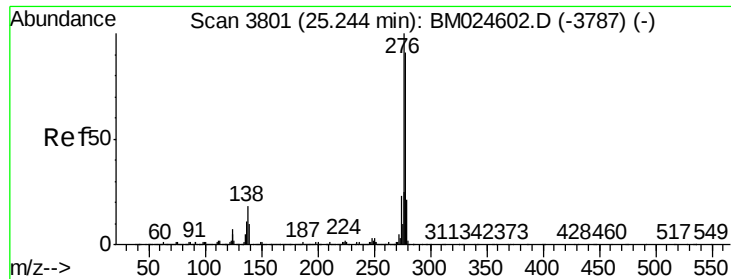
226 29.5 23.2 34.8

229 22.9 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





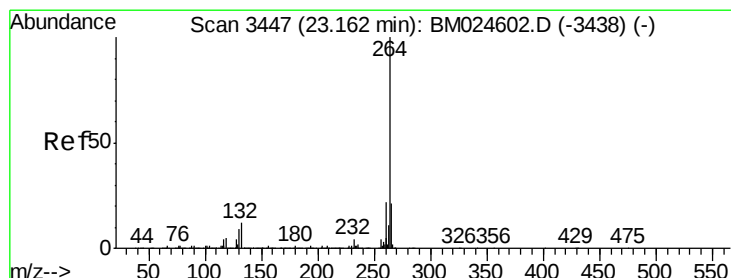
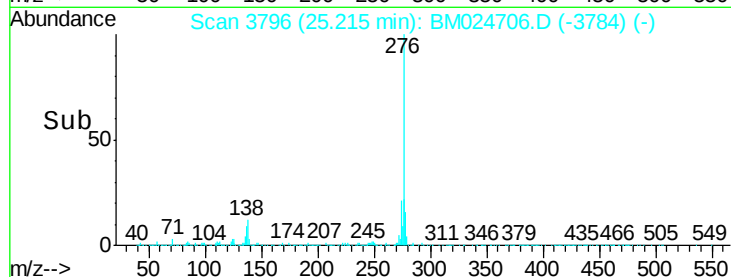
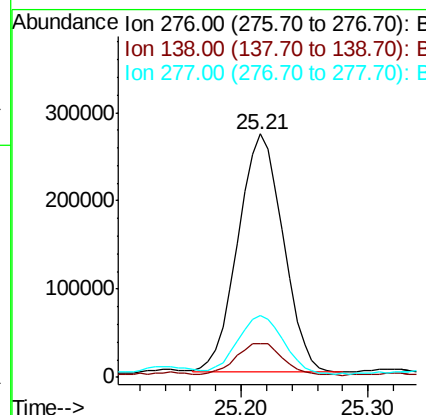
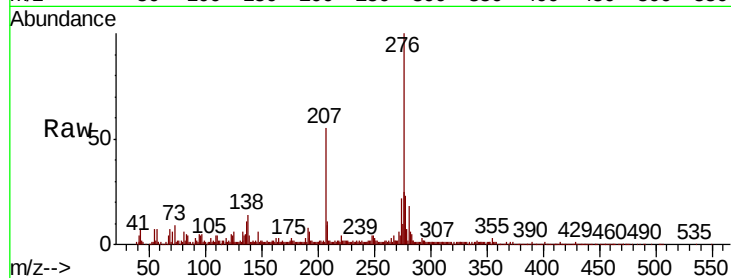
#86
Indeno(1,2,3-cd)pyrene
Concen: 6.790 ng
RT: 25.21 min Scan# 3796
Delta R.T. -0.03 min
Lab File: BM024706.D
Acq: 03 Feb 2020 19:24

Instrument :
BNA_M
ClientSampleId :
COMP-01

Tot Ion	Ratio	Lower	Upper
276	100		
138	13.7	13.4	20.0
277	25.4	19.6	29.4

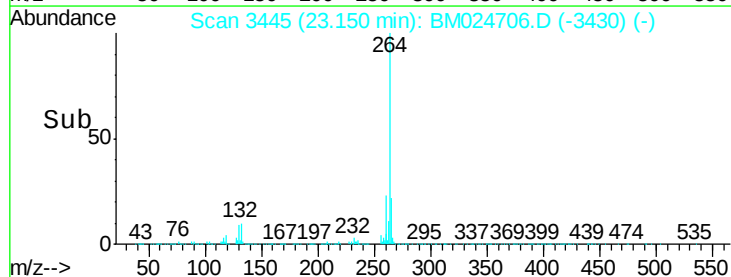
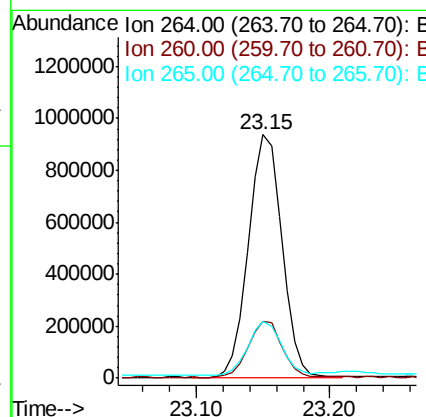
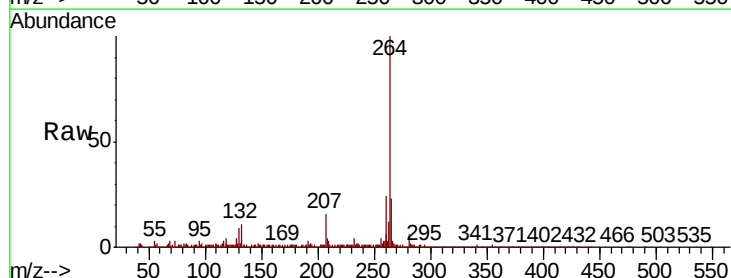
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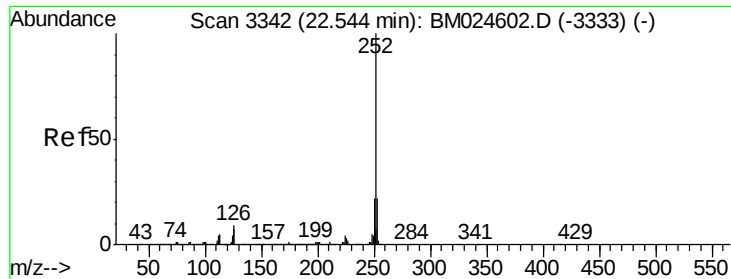
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#87
Perylene-d12
Concen: 20.000 ng
RT: 23.15 min Scan# 3445
Delta R.T. -0.01 min
Lab File: BM024706.D
Acq: 03 Feb 2020 19:24

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	17.9	26.9
265	23.2	17.3	25.9





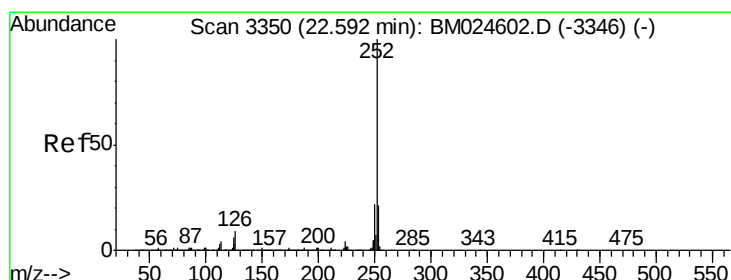
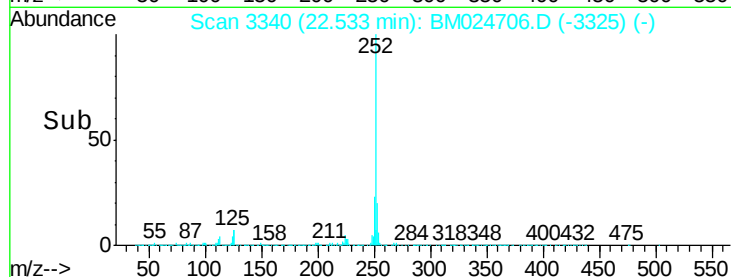
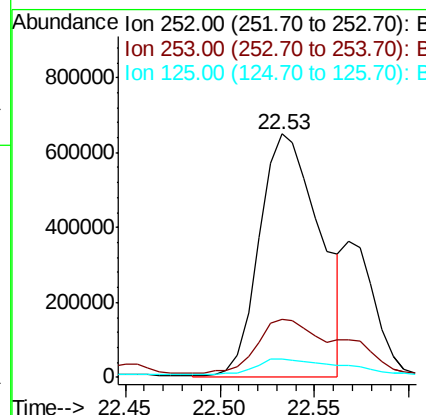
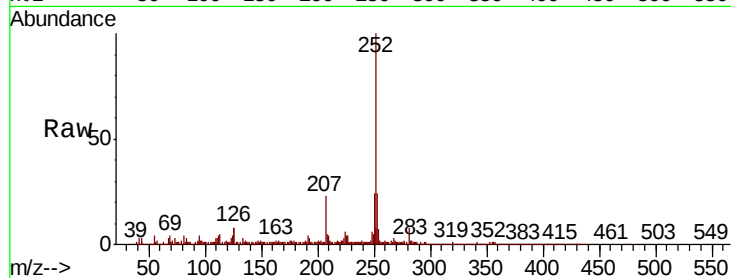
#88
Benzo(b)fluoranthene
Concen: 13.784 ng m
RT: 22.53 min Scan# 3340
Delta R.T. -0.01 min
Lab File: BM024706.D
Acq: 03 Feb 2020 19:24

Instrument :
BNA_M
ClientSampleId :
COMP-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.6	26.4
125	7.8	5.7	8.5

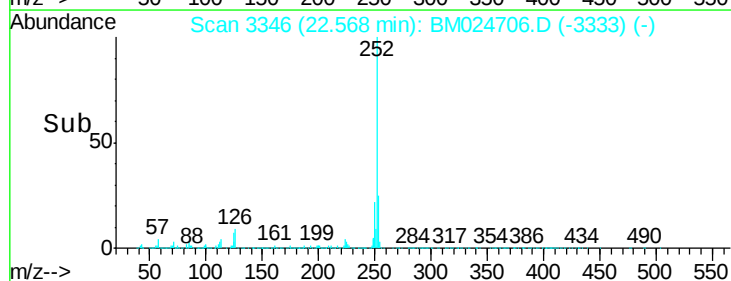
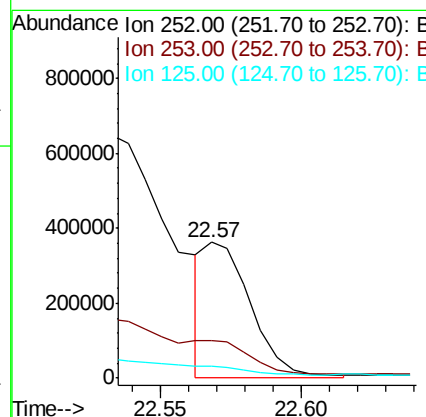
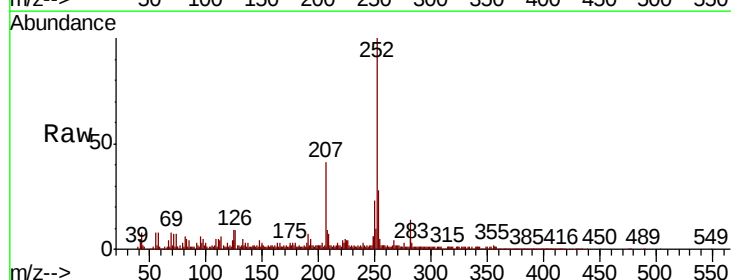
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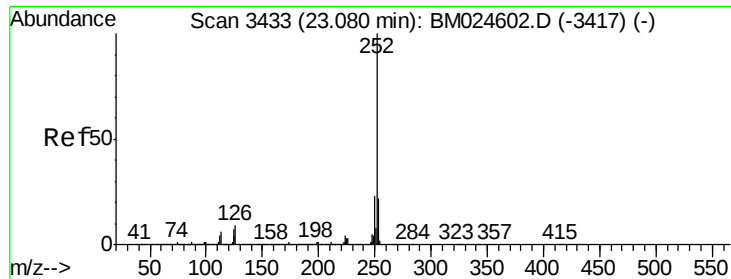
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#89
Benzo(k)fluoranthene
Concen: 4.113 ng m
RT: 22.57 min Scan# 3346
Delta R.T. -0.02 min
Lab File: BM024706.D
Acq: 03 Feb 2020 19:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.0	17.3	25.9#
125	8.8	5.2	7.8#





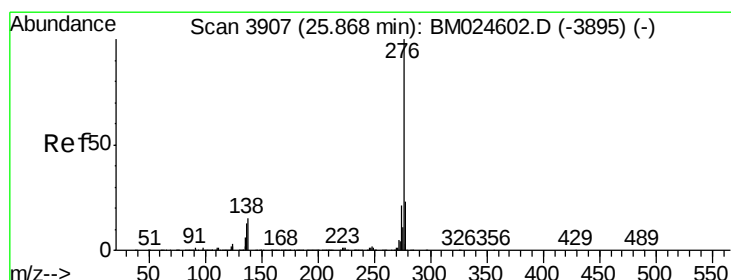
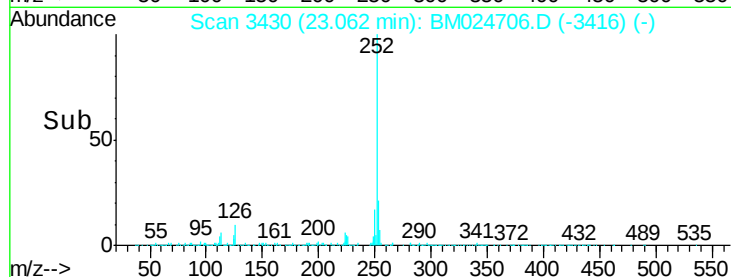
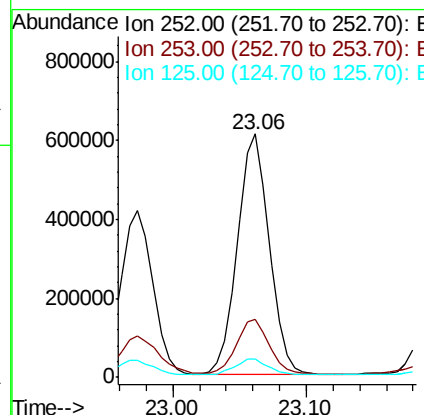
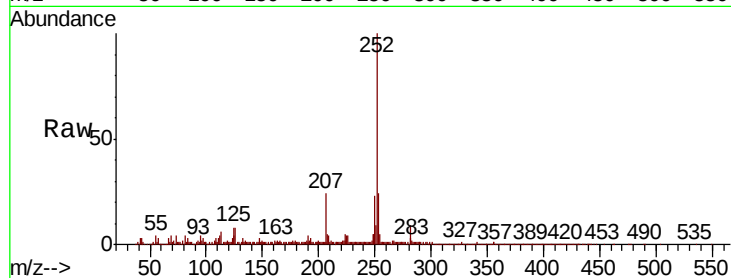
#90
Benzo(a)pyrene
Concen: 10.581 ng
RT: 23.06 min Scan# 3430
Delta R.T. -0.02 min
Lab File: BM024706.D
Acq: 03 Feb 2020 19:24

Instrument :
BNA_M
ClientSampleId :
COMP-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.3	25.9
125	7.8	5.8	8.8

Manual Integrations
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#92
Benzo(g,h,i)perylene
Concen: 8.125 ng
RT: 25.84 min Scan# 3902
Delta R.T. -0.03 min
Lab File: BM024706.D
Acq: 03 Feb 2020 19:24

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	18.6	28.0
138	14.7	11.9	17.9

