

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121818\
 Data File : BM018275.D
 Acq On : 18 Dec 2018 17:35
 Operator : JU/SJ
 Sample : J6403-21DL 25X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TP-3-BDL

Manual Integrations
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Quant Time: Dec 18 18:10:42 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 15 21:39:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.49	152	148377	20.00	ng	-0.02
21) Naphthalene-d8	10.25	136	607012	20.00	ng	-0.02
39) Acenaphthene-d10	14.15	164	313623	20.00	ng	-0.02
64) Phenanthrene-d10	16.91	188	610629	20.00	ng	-0.01
76) Chrysene-d12	21.13	240	615878	20.00	ng	-0.02
87) Perylene-d12	23.29	264	666390	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.13	112	28104	3.16	ng	0.00
7) Phenol-d6	6.70	99	31733	2.57	ng	0.00
23) Nitrobenzene-d5	8.66	82	21389m	1.81	ng	0.00
42) 2,4,6-Tribromophenol	15.66	330	9013	1.96	ng	0.00
45) 2-Fluorobiphenyl	12.75	172	41711	1.72	ng	-0.02
79) Terphenyl-d14	19.56	244	51488	1.89	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	10.30	128	555021	18.699	ng	99
37) 2-Methylnaphthalene	11.93	142	835668	39.923	ng	97
38) 1-Methylnaphthalene	12.15	142	779976	38.187	ng	100
46) 1,1'-Biphenyl	12.96	154	71342	2.529	ng	95
49) Acenaphthylene	13.86	152	93541	2.989	ng	# 78
52) Acenaphthene	14.21	154	499718	26.129	ng	98
58) Fluorene	15.20	166	274789	11.577	ng	99
71) Phenanthrene	16.95	178	1255558	37.854	ng	99
72) Anthracene	17.05	178	339804	10.327	ng	98
75) Fluoranthene	18.98	202	364331	9.448	ng	98
78) Pyrene	19.35	202	617112	16.816	ng	99
81) Benzo(a)anthracene	21.12	228	251135	6.981	ng	# 90
83) Chrysene	21.17	228	241528	6.980	ng	# 96
88) Benzo(b)fluoranthene	22.66	252	132682m	3.545	ng	
90) Benzo(a)pyrene	23.20	252	163954	4.605	ng	97

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

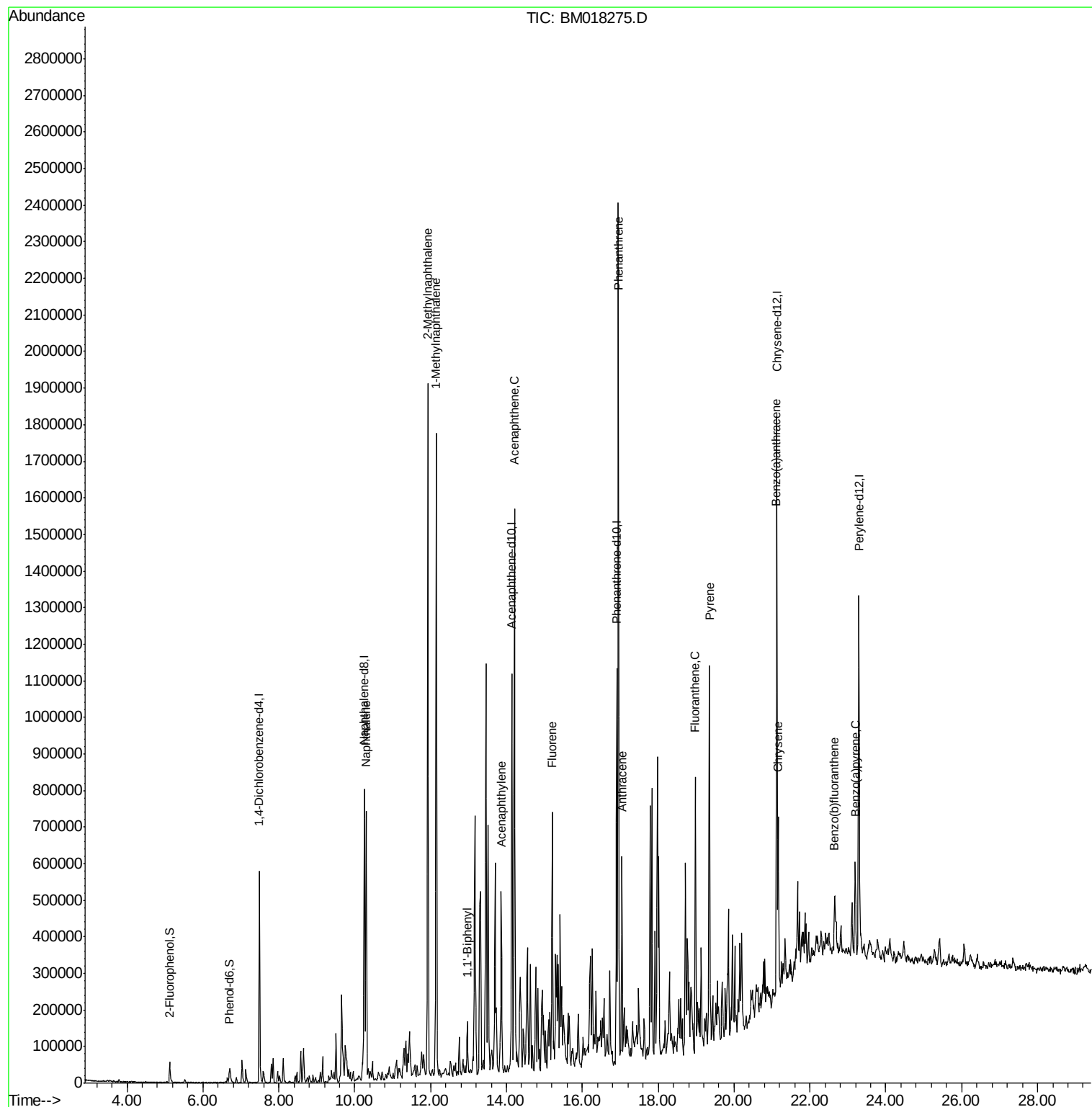
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM121818\
Data File : BM018275.D
Acq On : 18 Dec 2018 17:35
Operator : JU/SJ
Sample : J6403-21DL 25X
Misc :
ALS Vial : 6 Sample Multiplier: 1

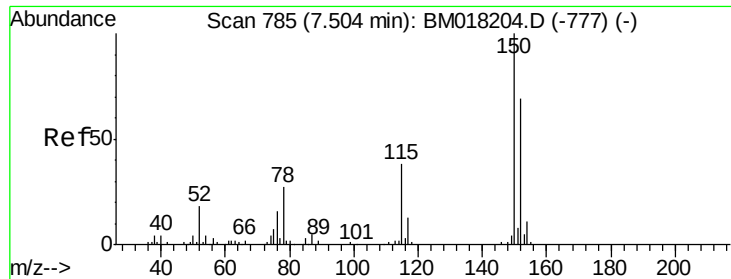
Instrument :
BNA_M
ClientSampleId :
TP-3-BDL

Quant Time: Dec 18 18:10:42 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 15 21:39:37 2018
Response via : Initial Calibration

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#1

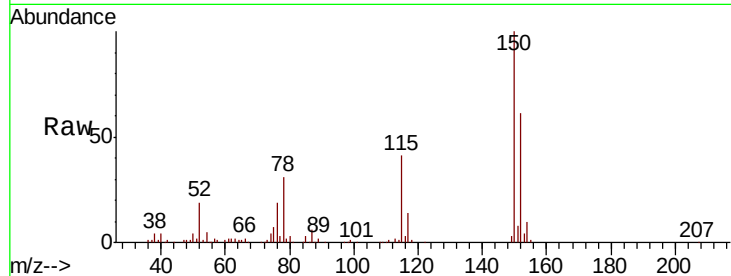
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.49 min Scan# 782
Delta R.T. -0.02 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampleId :
TP-3-BDL

Tot Ion	Ratio	Resp	Lower	Upper
152	100	148377		
150	165.1	116.1	174.1	
115	67.6	44.6	67.0	

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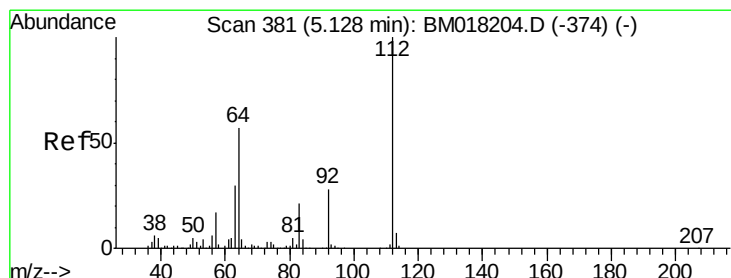
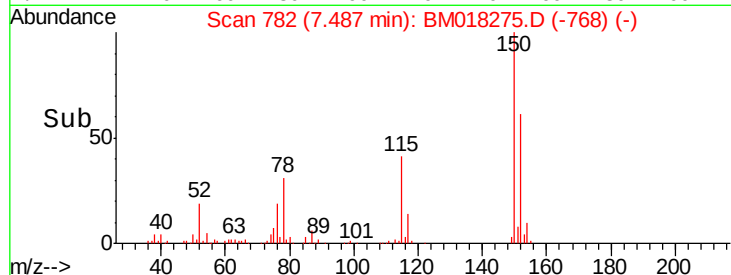
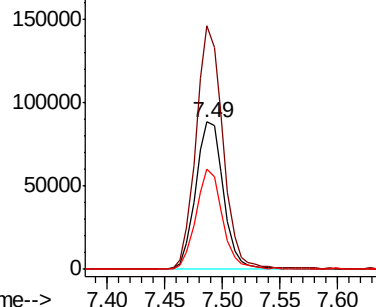


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

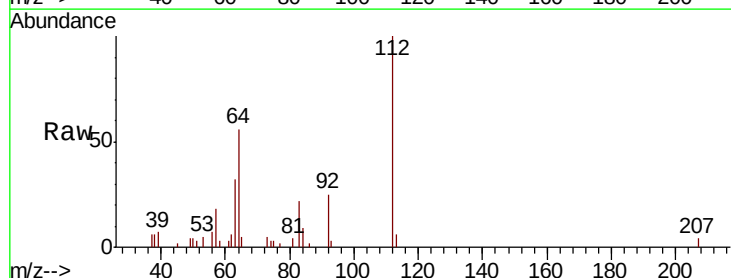
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 3.164 ng
RT: 5.13 min Scan# 381
Delta R.T. 0.00 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	28104		
64	55.9	45.4	68.2	
63	31.8	24.0	36.0	

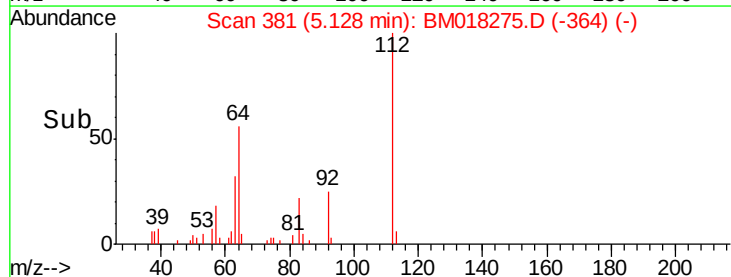
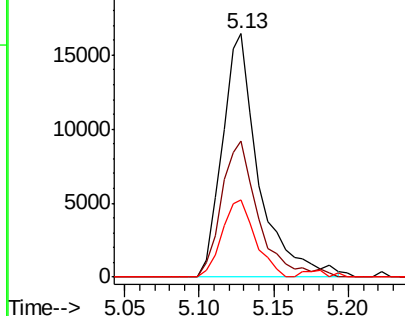


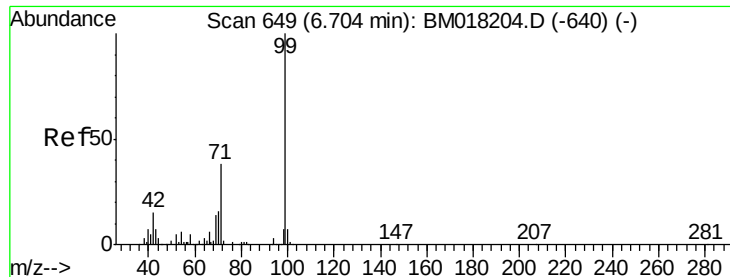
Abundance

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: 2.570 ng

RT: 6.70 min Scan# 648

Delta R.T. -0.01 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Instrument :

BNA_M

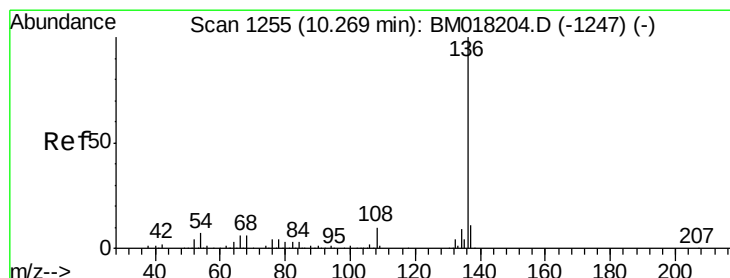
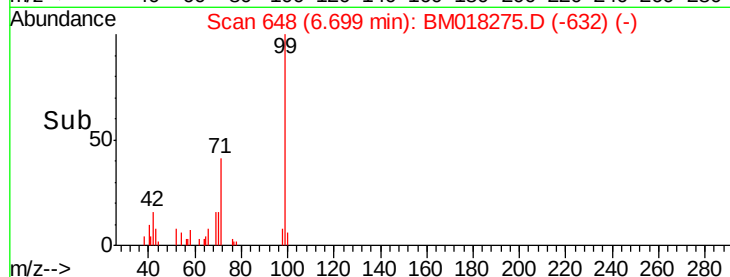
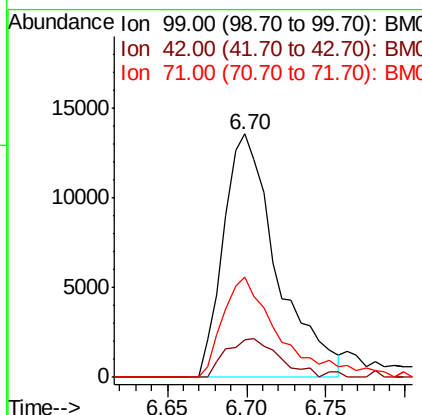
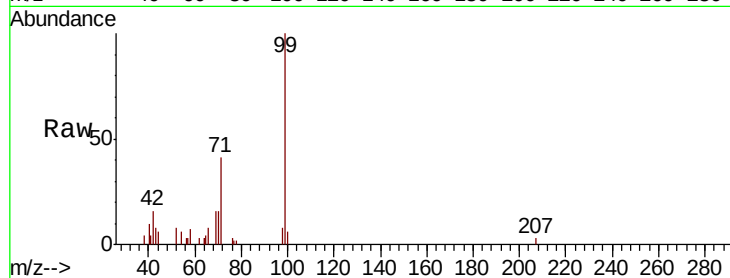
ClientSampled :

TP-3-BDL

Tot Ion:	99	Resp:	31733
Ion Ratio	Lower	Upper	
99	100		
42	15.5	12.3	18.5
71	41.3	30.2	45.2

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#21

Naphthalene-d8

Concen: 20.000 ng

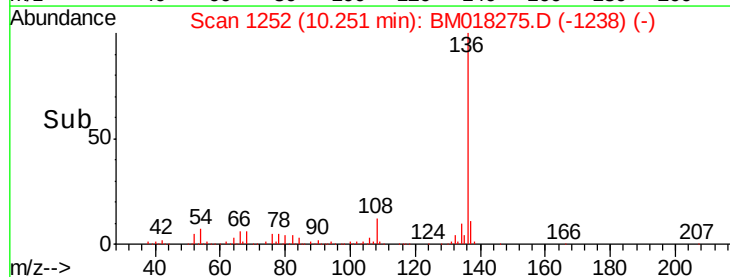
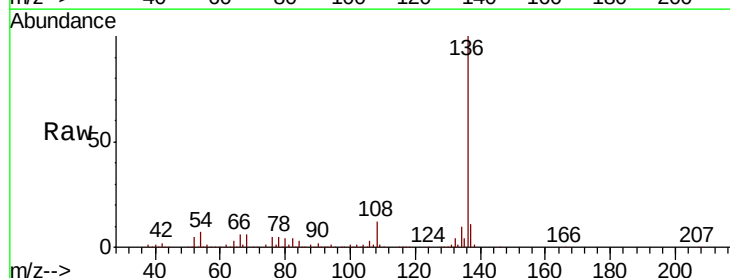
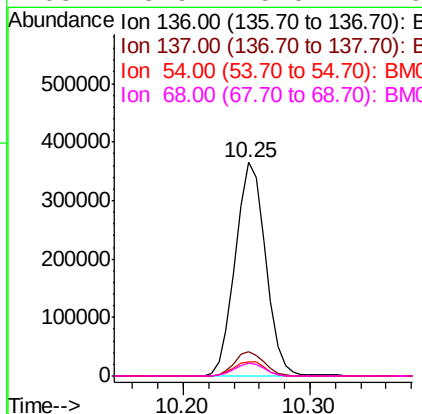
RT: 10.25 min Scan# 1252

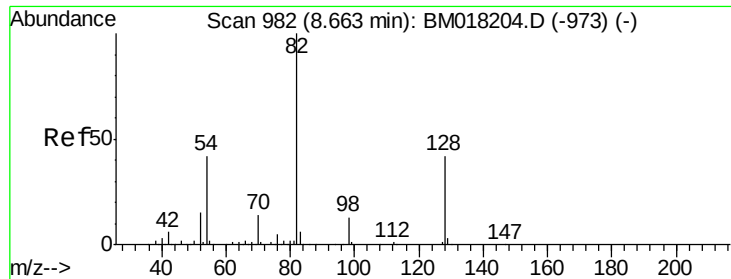
Delta R.T. -0.02 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Tgt Ion:	136	Resp:	607012
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.2	13.8
54	6.6	5.2	7.8
68	5.9	5.0	7.6





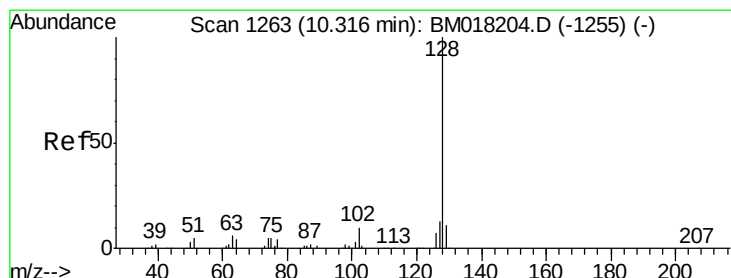
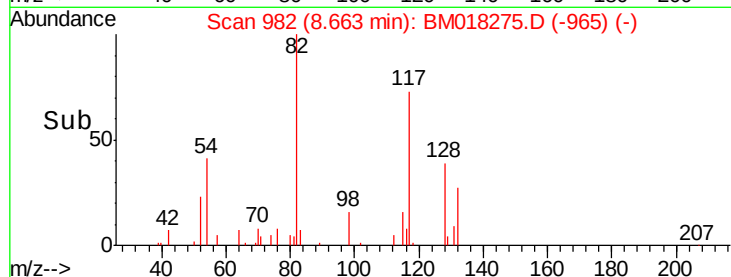
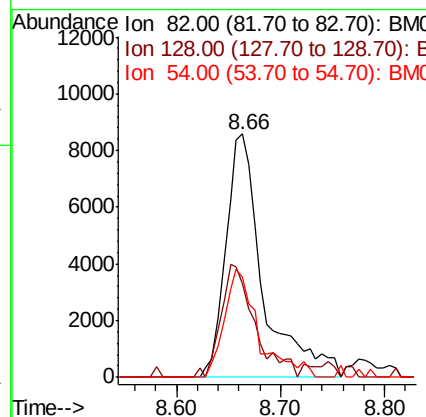
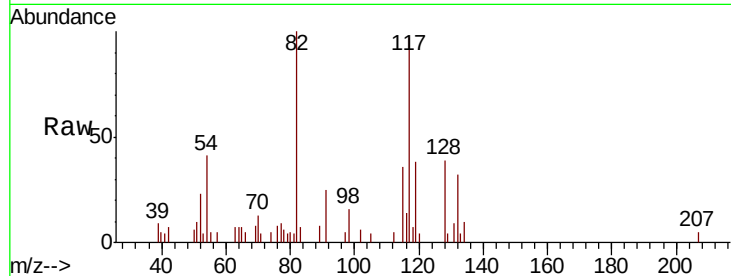
#23
Nitrobenzene-d5
Concen: 1.807 ng/ml
RT: 8.66 min Scan# 982
Delta R.T. 0.00 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampleID :
TP-3-BDL

Tot Ion	82	Resp	21389
Ion Ratio	Lower	Upper	
82	100		
128	38.6	33.4	50.2
54	41.1	33.4	50.2

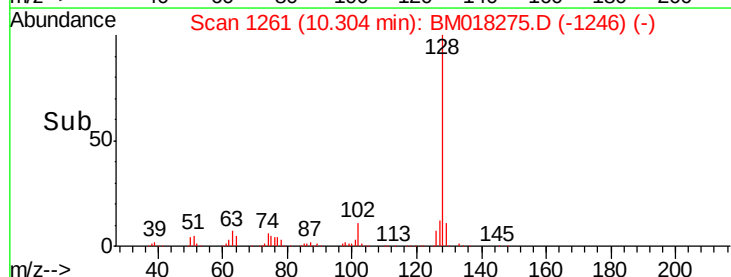
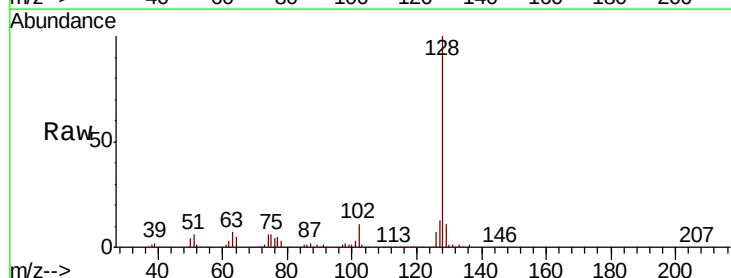
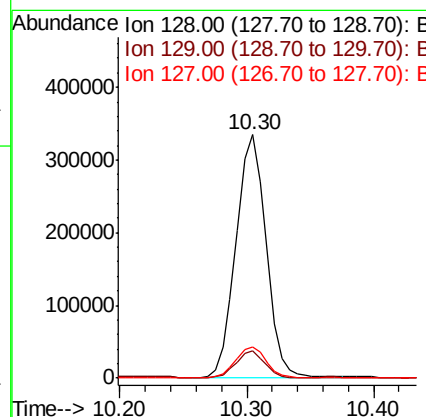
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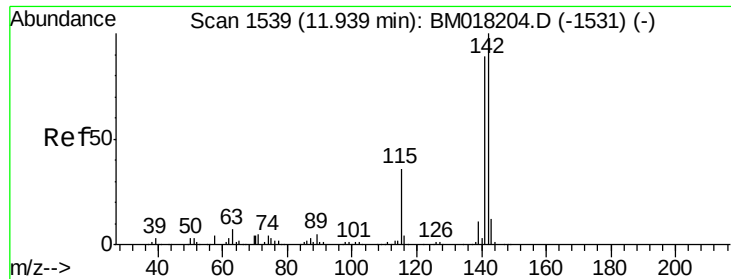
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#31
Naphthalene
Concen: 18.699 ng/ml
RT: 10.30 min Scan# 1261
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	128	Resp	555021
Ion Ratio	Lower	Upper	
128	100		
129	11.2	8.9	13.3
127	12.7	10.4	15.6





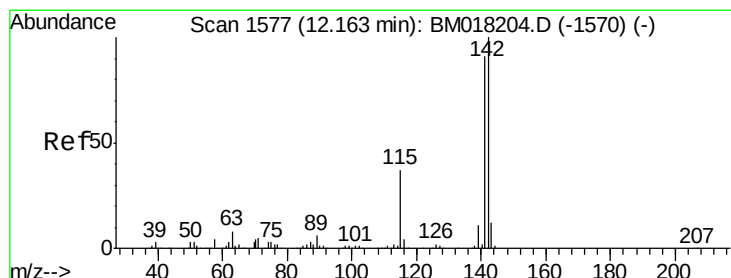
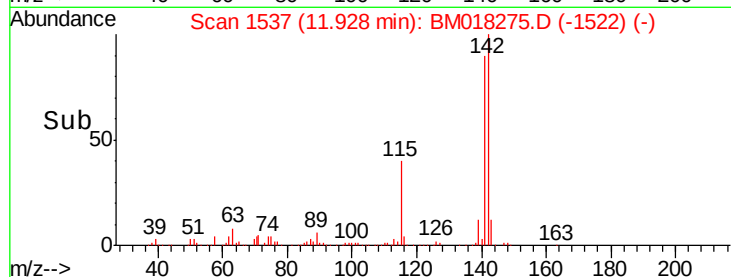
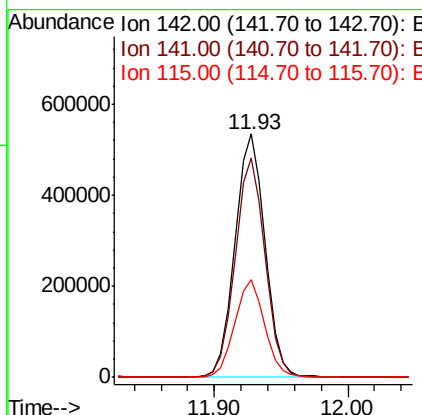
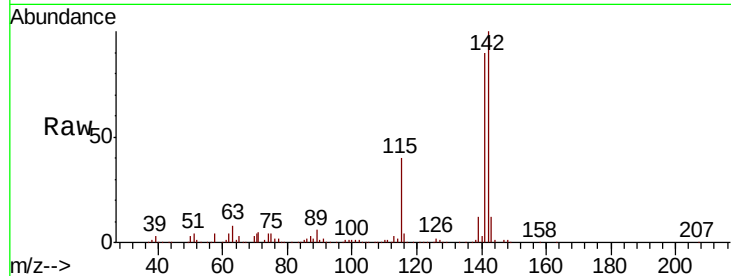
#37
2-Methylnaphthalene
Concen: 39.923 ng
RT: 11.93 min Scan# 1537
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampleId :
TP-3-BDL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.4	107.2
115	40.2	29.0	43.6

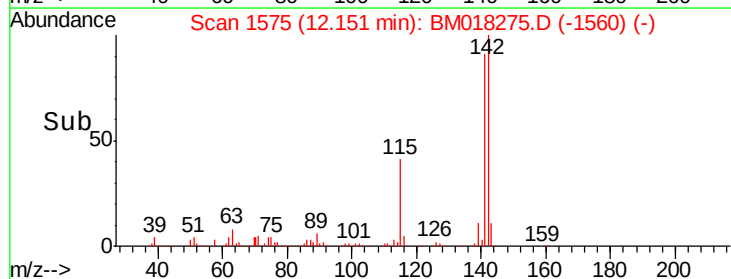
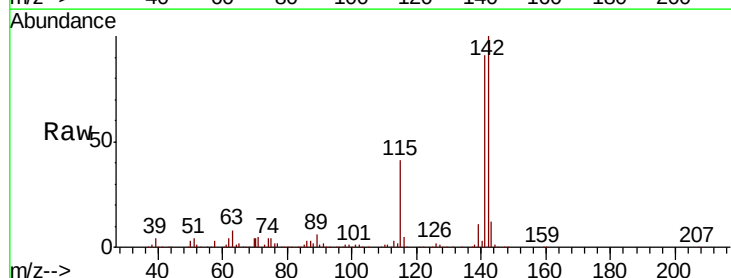
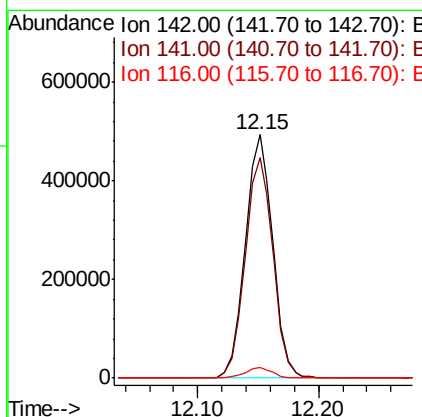
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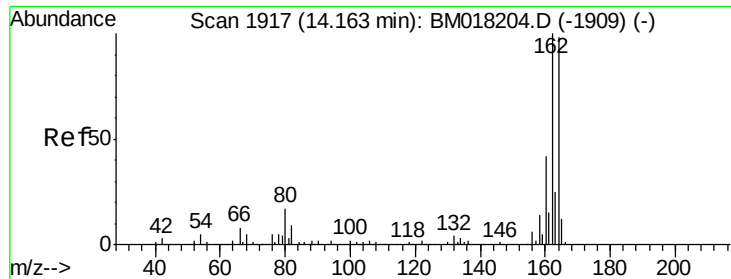
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#38
1-Methylnaphthalene
Concen: 38.187 ng
RT: 12.15 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.0	109.4
116	4.5	3.0	4.6





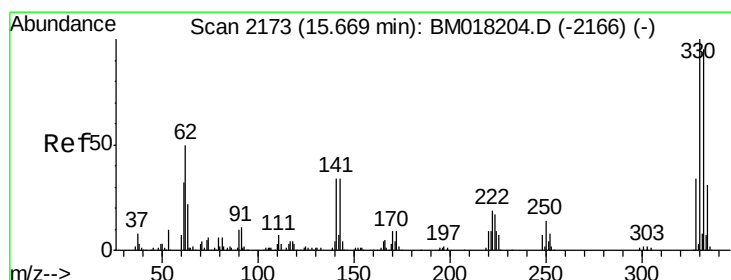
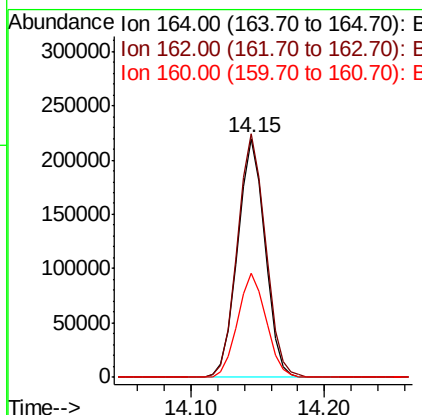
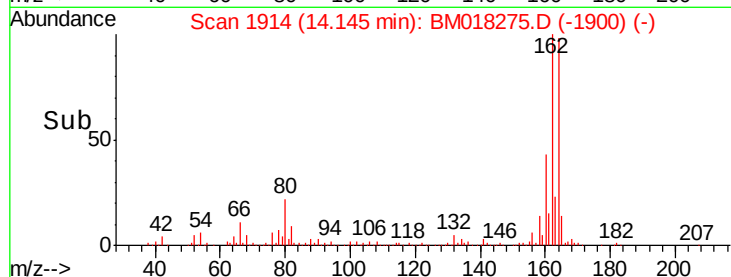
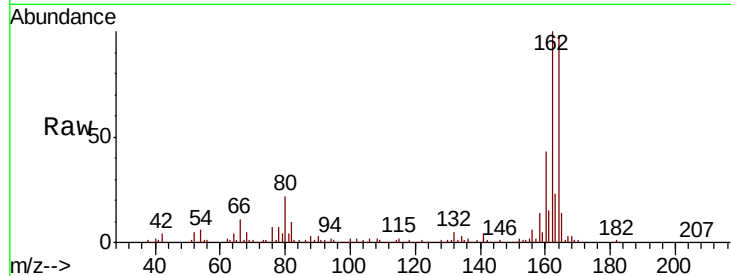
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.15 min Scan# 1914
Delta R.T. -0.02 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampleId :
TP-3-BDL

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.8	122.6
160	43.7	34.6	51.8

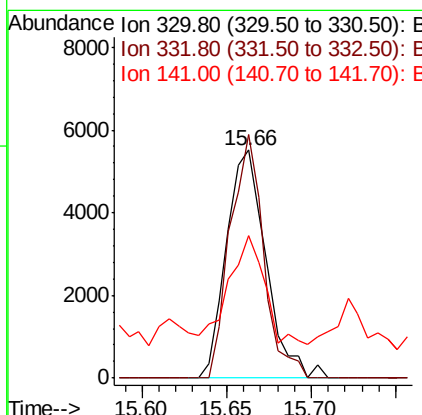
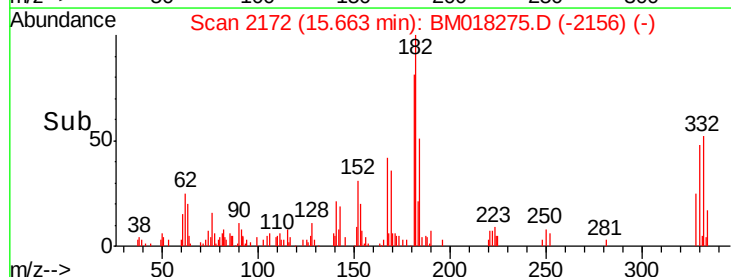
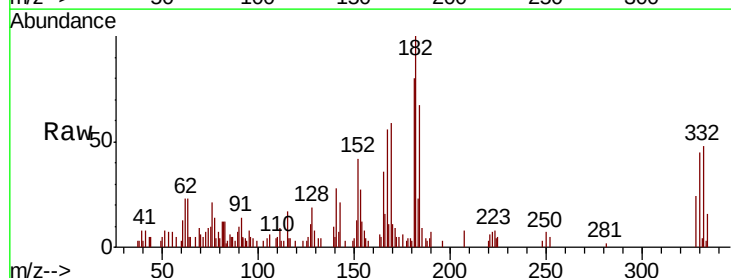
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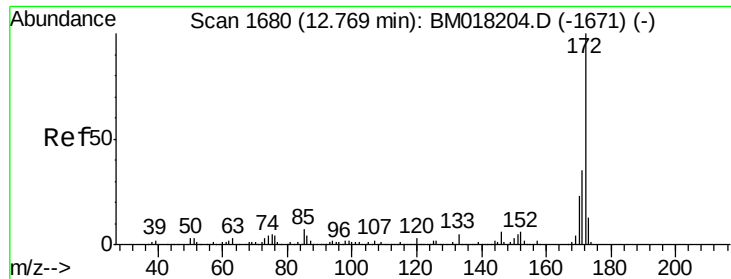
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#42
2,4,6-Tribromophenol
Concen: 1.958 ng
RT: 15.66 min Scan# 2172
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
330	100		
332	90.1	78.6	118.0
141	42.1	27.1	40.7#





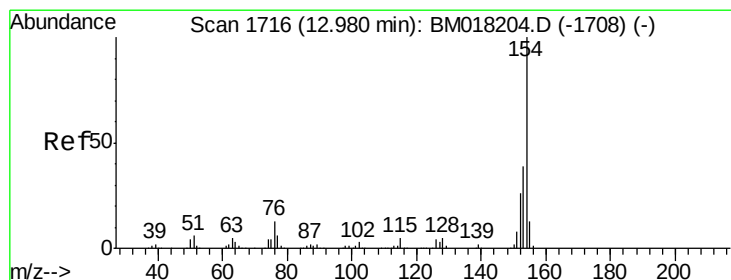
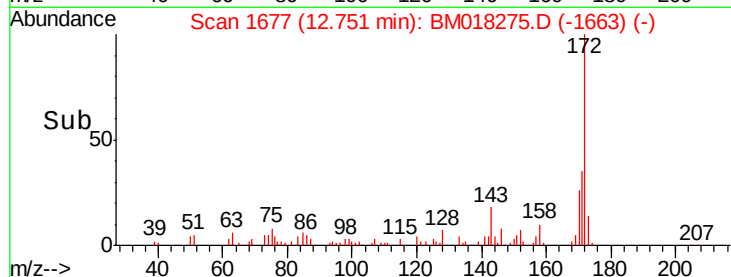
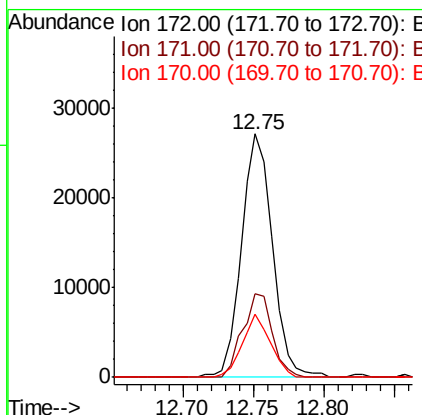
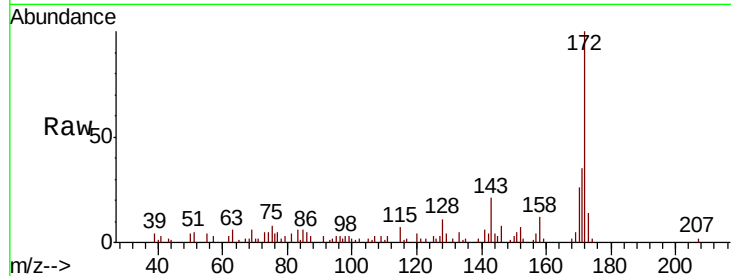
#45
2-Fluorobiphenyl
Concen: 1.723 ng
RT: 12.75 min Scan# 1677
Delta R.T. -0.02 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampled :
TP-3-BDL

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.3	42.5
170	26.1	18.1	27.1

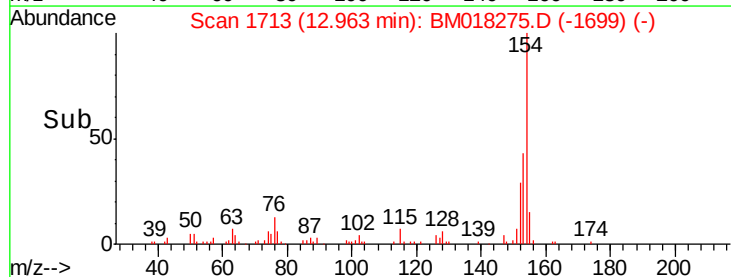
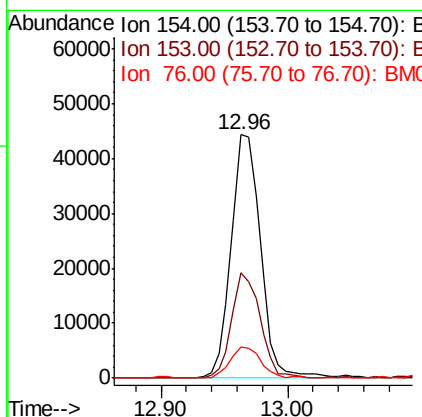
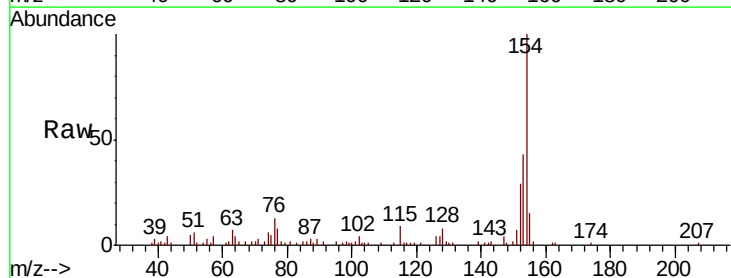
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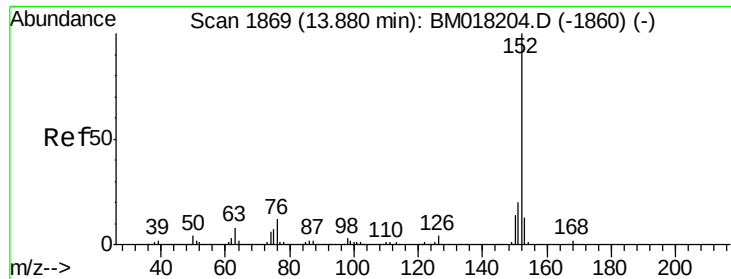
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#46
1,1'-Biphenyl
Concen: 2.529 ng
RT: 12.96 min Scan# 1713
Delta R.T. -0.02 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
154	100		
153	43.2	19.5	59.5
76	12.9	0.0	33.1





#49

Acenaphthylene

Concen: 2.989 ng

RT: 13.86 min Scan# 1866

Delta R.T. -0.02 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Instrument :

BNA_M

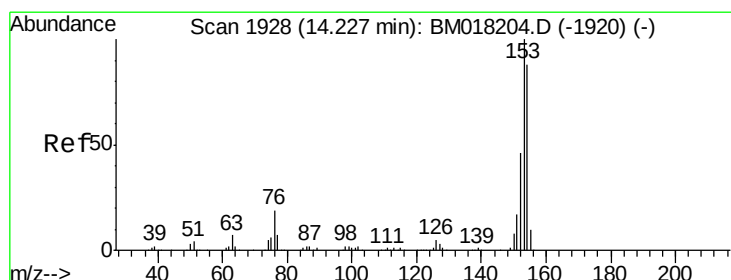
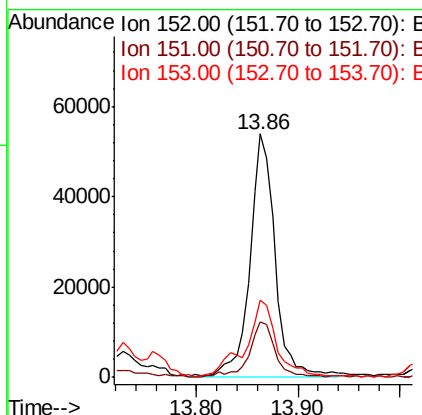
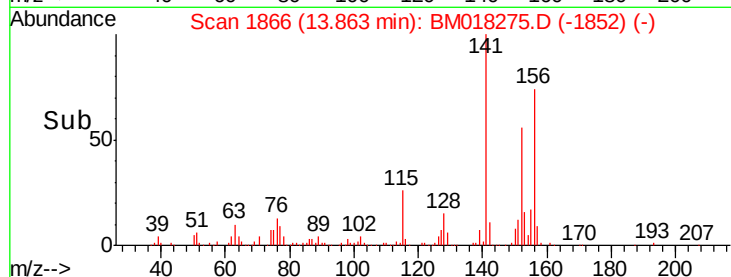
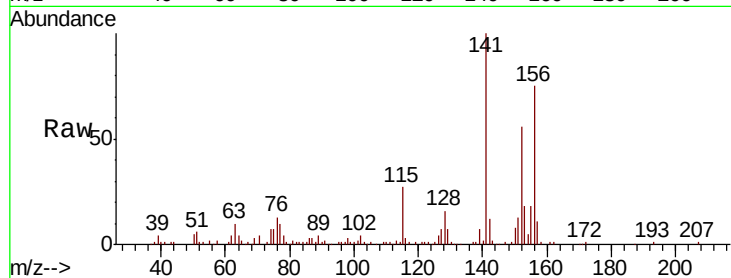
ClientSampleId :

TP-3-BDL

Tot Ion:	152	Resp:	93541
Ion Ratio	Lower	Upper	
152	100		
151	22.5	16.0	24.0
153	31.9	10.2	15.2#

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#52

Acenaphthene

Concen: 26.129 ng

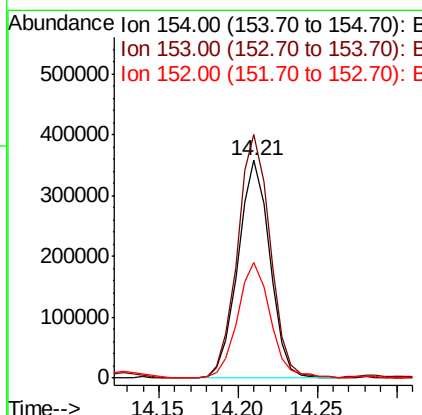
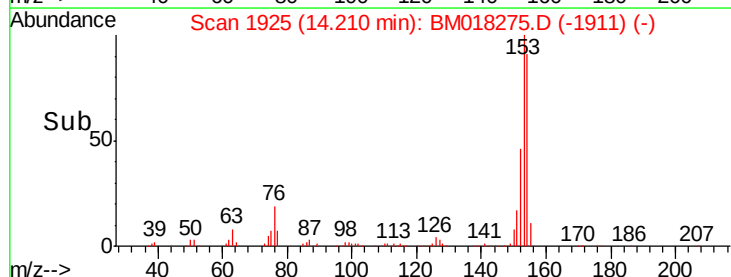
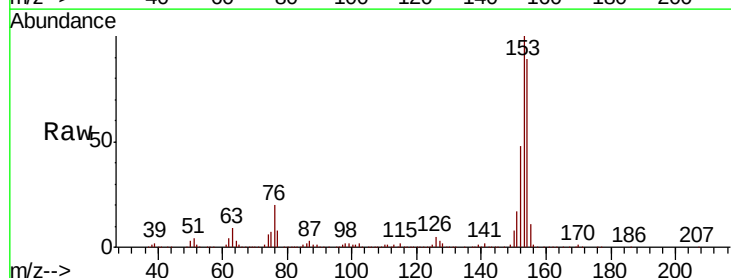
RT: 14.21 min Scan# 1925

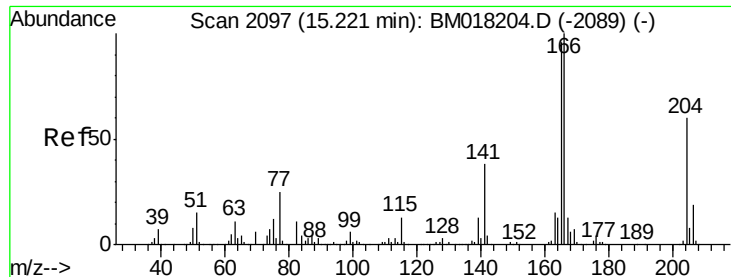
Delta R.T. -0.02 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Tgt Ion:	154	Resp:	499718
Ion Ratio	Lower	Upper	
154	100		
153	111.8	90.4	135.6
152	53.2	41.2	61.8





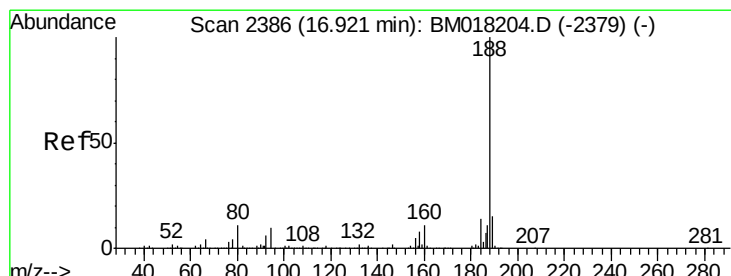
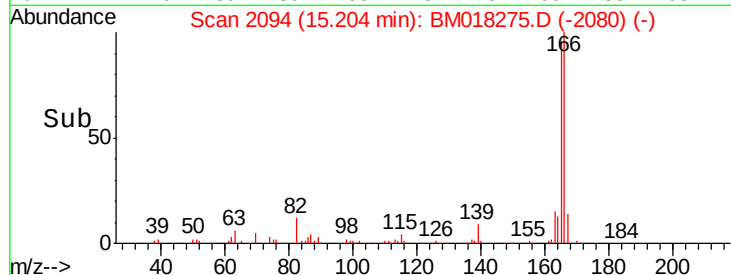
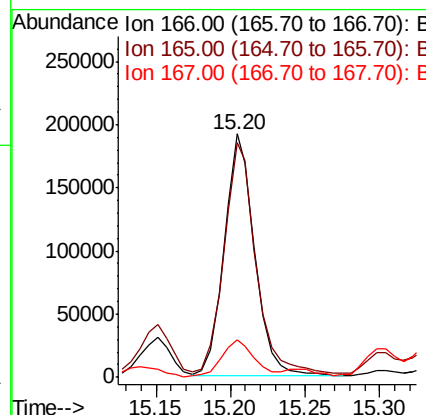
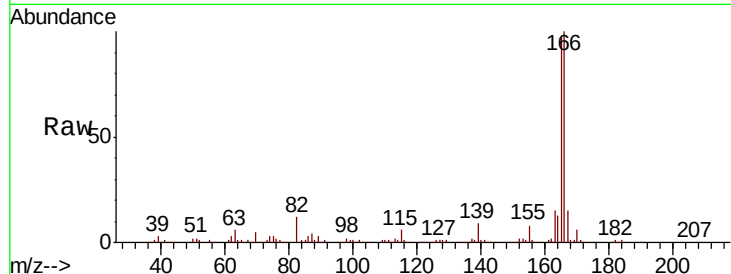
#58
 Fluorene
 Concen: 11.577 ng
 RT: 15.20 min Scan# 2094
 Delta R.T. -0.02 min
 Lab File: BM018275.D
 Acq: 18 Dec 2018 17:35

Instrument :
 BNA_M
 ClientSampleId :
 TP-3-BDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		274789		
165	96.5	76.9	115.3		
167	15.5	10.5	15.7		

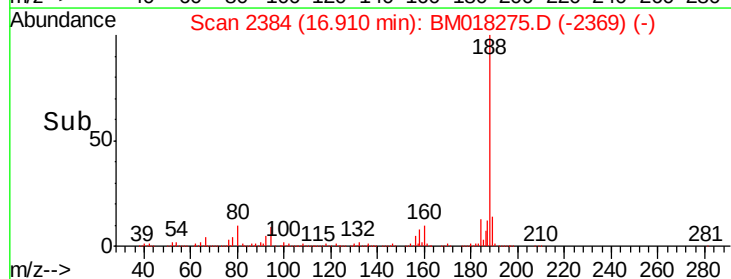
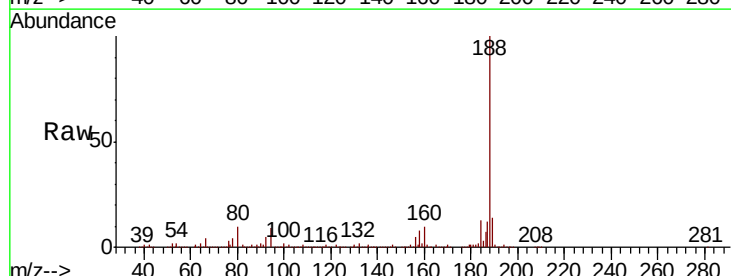
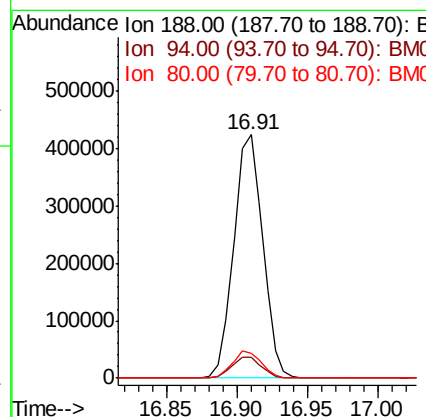
Manual Integrations
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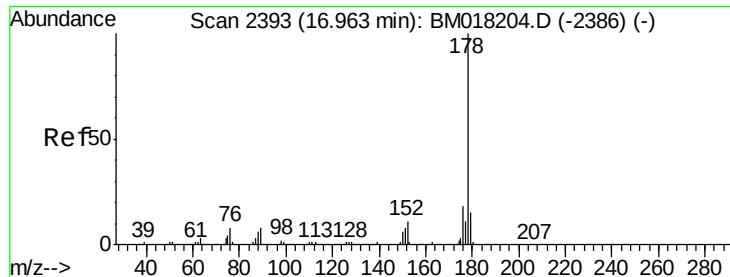
Sohil
 12/19/2018 4:18:14 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 16.91 min Scan# 2384
 Delta R.T. -0.01 min
 Lab File: BM018275.D
 Acq: 18 Dec 2018 17:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		610629		
94	8.6	8.0	12.0		
80	10.2	9.0	13.6		





#71

Phenanthrene

Concen: 37.854 ng

RT: 16.95 min Scan# 2391

Delta R.T. -0.01 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Instrument :

BNA_M

ClientSampled :

TP-3-BDL

Tot Ion:178 Resp: 1255558

Ion Ratio Lower Upper

178 100

176 19.1 14.7 22.1

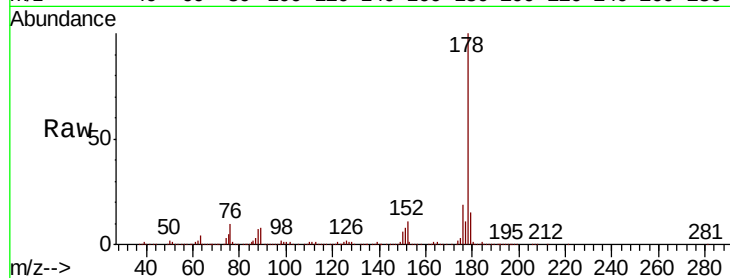
179 15.5 12.0 18.0

Manual Integrations

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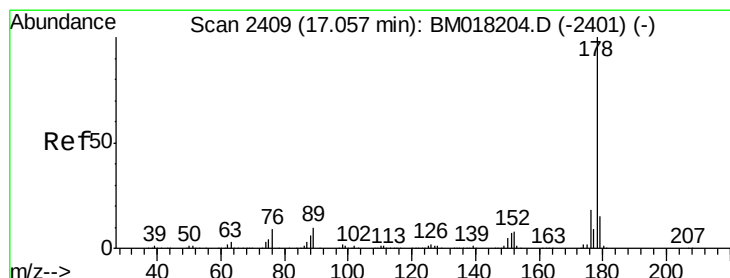
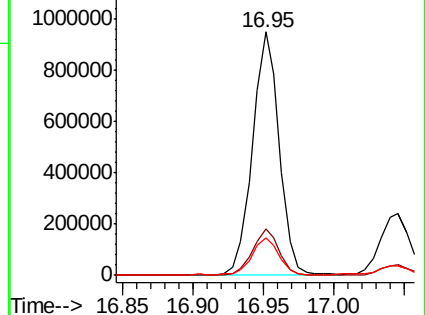
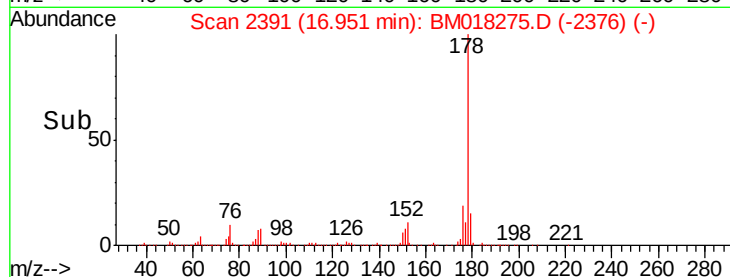
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 10.327 ng

RT: 17.05 min Scan# 2407

Delta R.T. -0.01 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

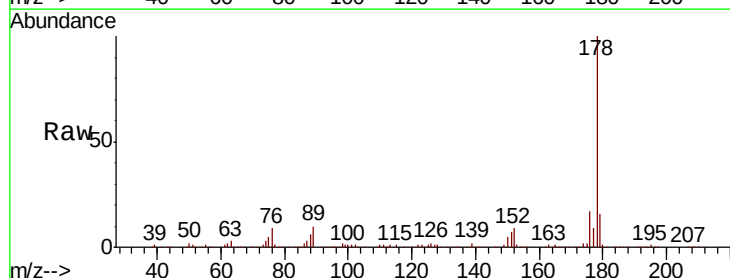
Tgt Ion:178 Resp: 339804

Ion Ratio Lower Upper

178 100

176 17.2 14.3 21.5

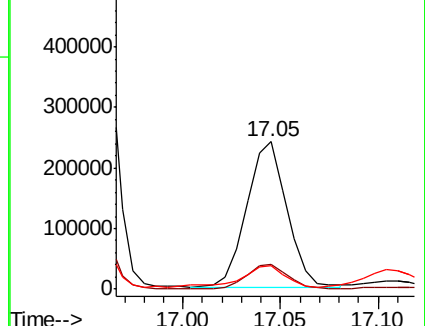
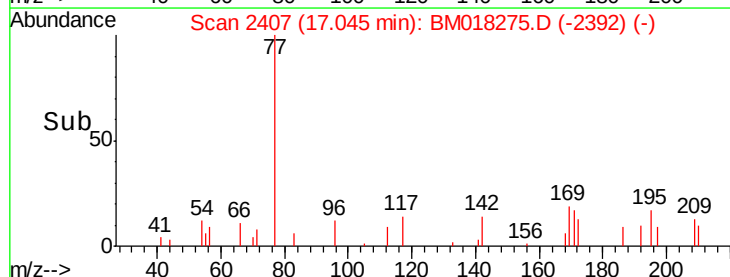
179 16.0 12.0 18.0

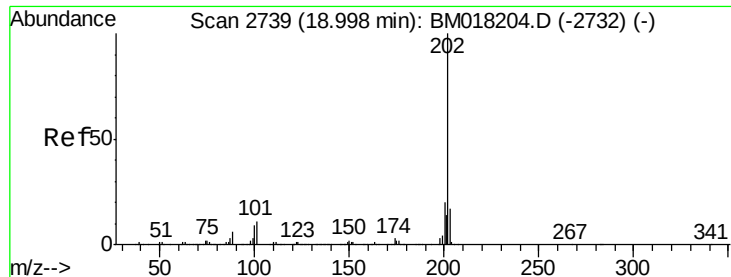


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 9.448 ng

RT: 18.98 min Scan# 2736

Delta R.T. -0.02 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Instrument :

BNA_M

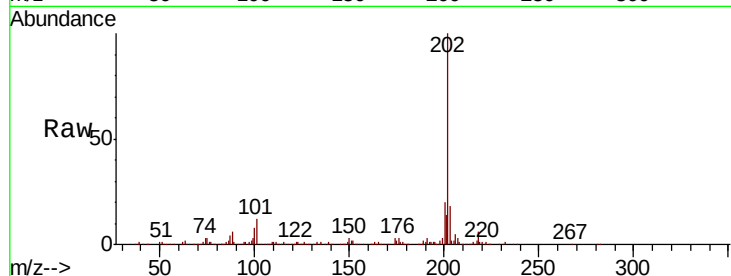
ClientSampled :

TP-3-BDL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	364331		
101	11.7	0.0	30.5	
203	17.9	0.0	37.5	

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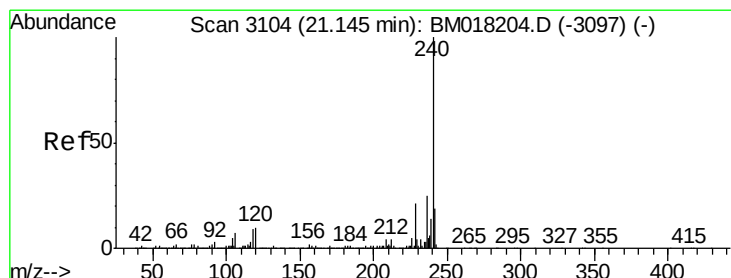
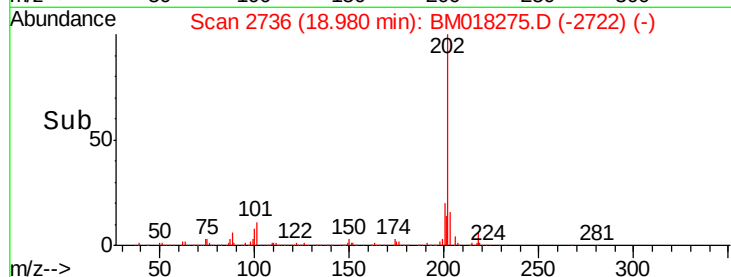
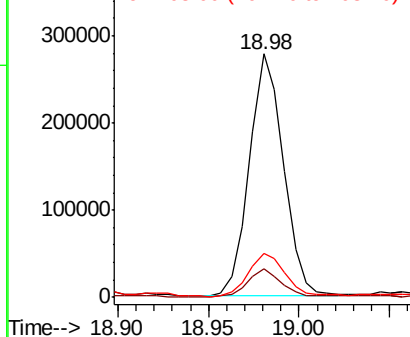


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

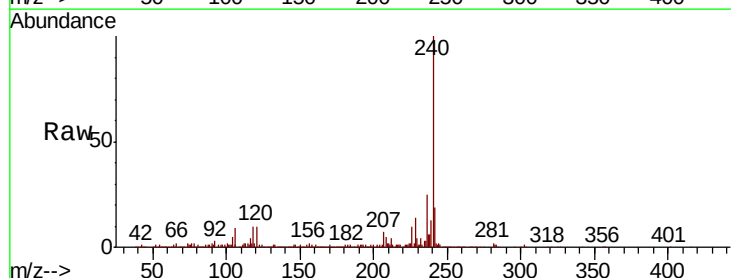
RT: 21.13 min Scan# 3101

Delta R.T. -0.02 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	615878		
120	10.1	8.2	12.2	
236	25.1	20.3	30.5	

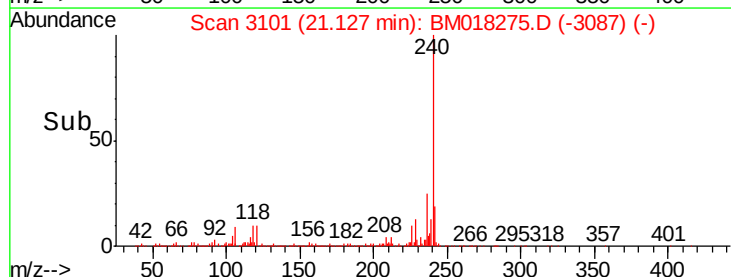
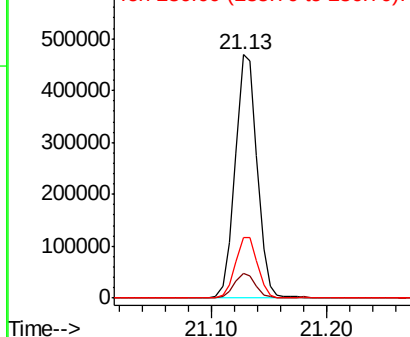


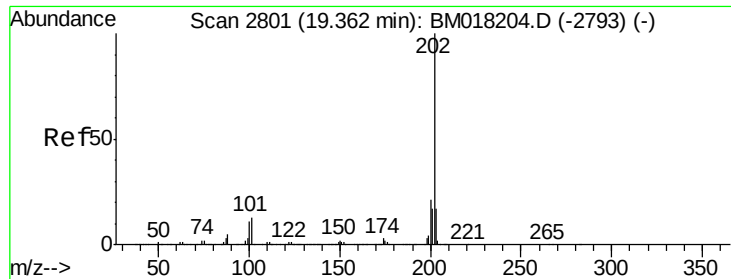
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





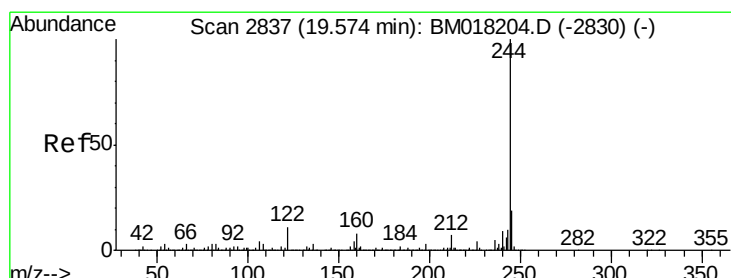
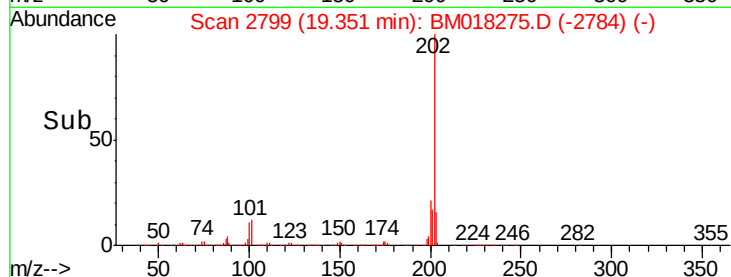
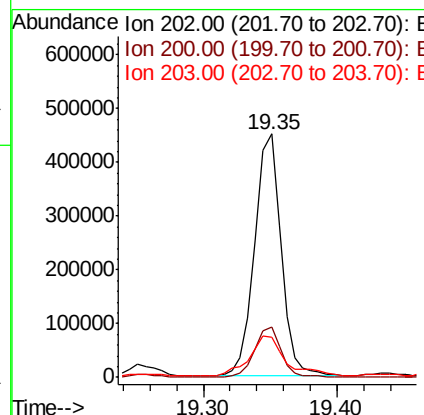
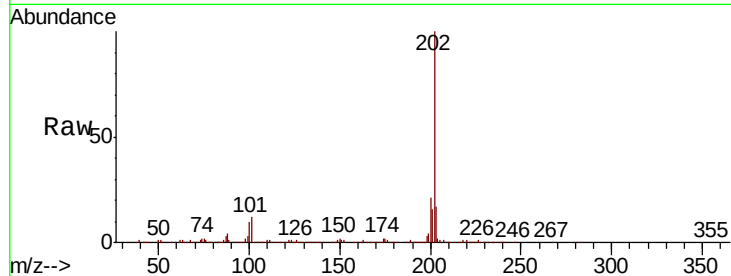
#78
Pvrene
Concen: 16.816 ng
RT: 19.35 min Scan# 2799
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampleId :
TP-3-BDL

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.6	16.5	24.7
203	16.7	14.0	21.0

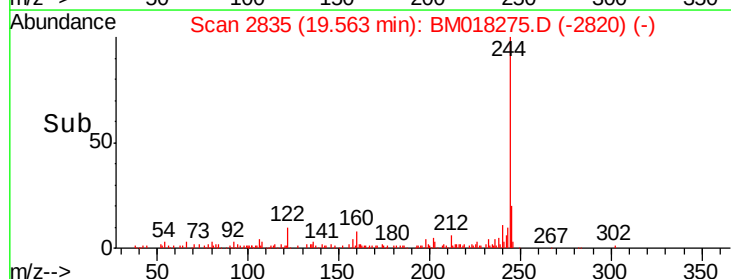
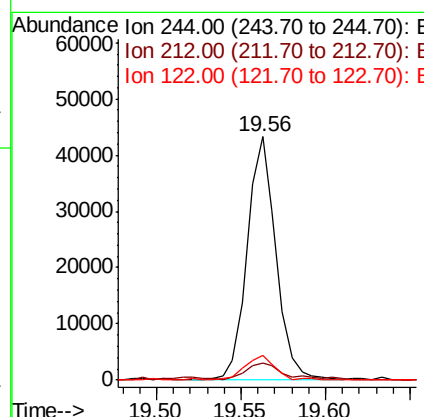
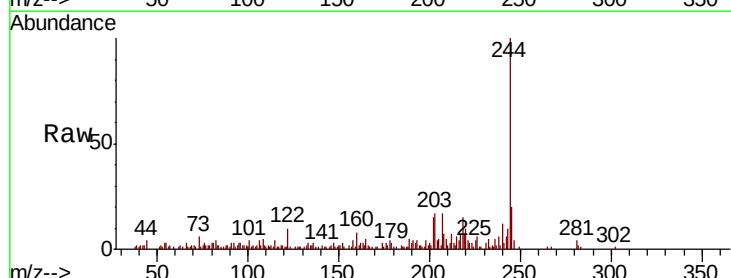
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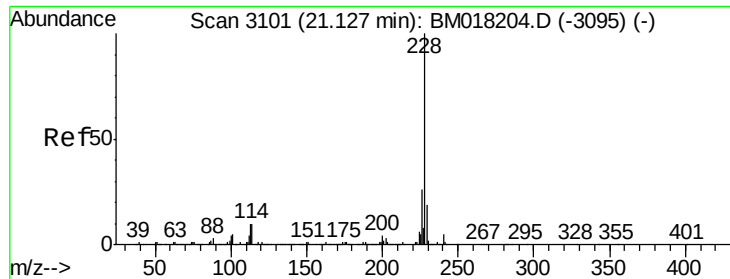
Sohil
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#79
Terphenyl-d14
Concen: 1.891 ng
RT: 19.56 min Scan# 2835
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.9	5.8	8.8
122	9.9	9.0	13.6





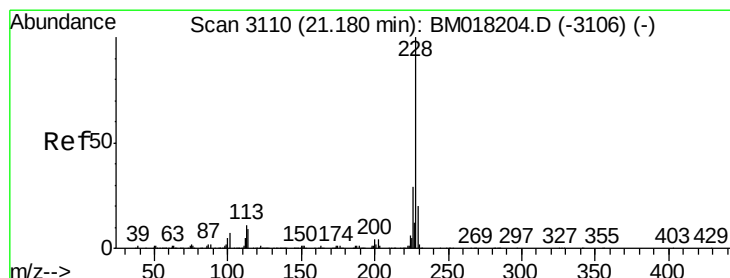
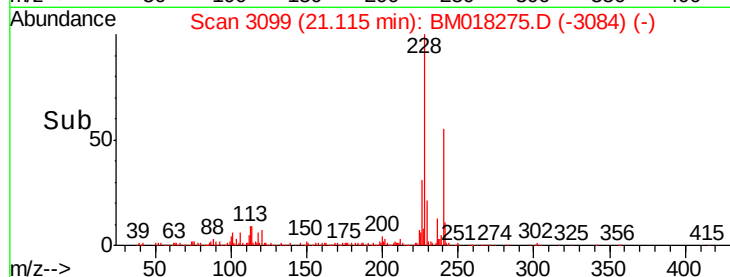
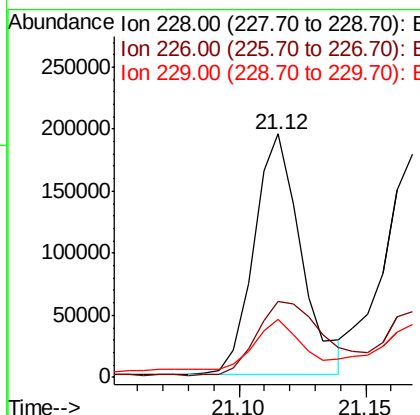
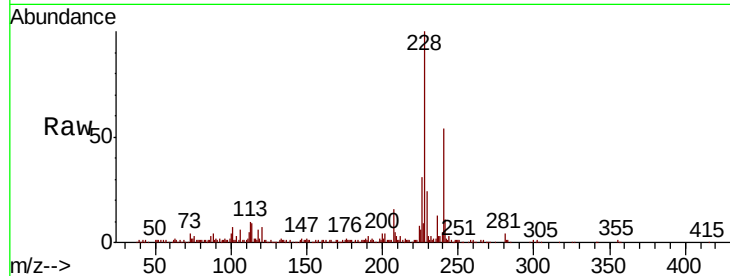
#81
Benzo(a)anthracene
Concen: 6.981 ng
RT: 21.12 min Scan# 3099
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampled :
TP-3-BDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.2	21.0	31.4
229	23.7	15.5	23.3

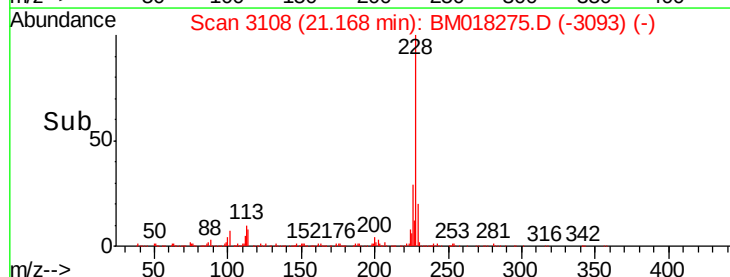
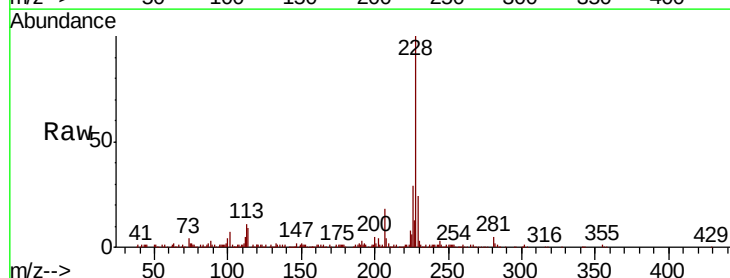
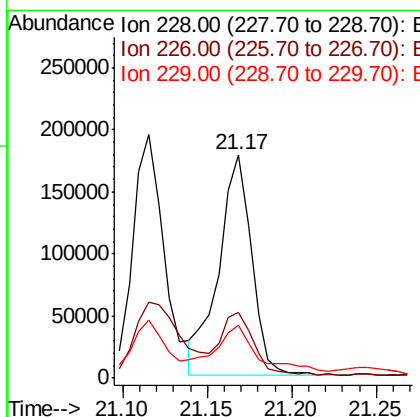
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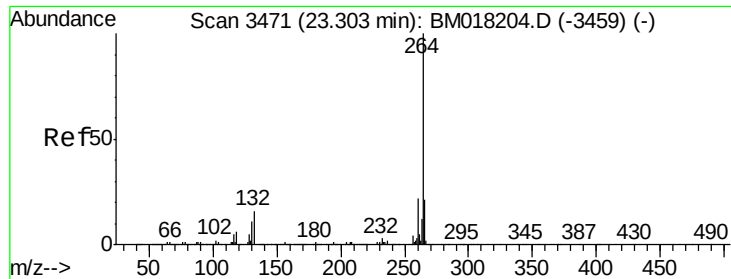
Sohil
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#83
Chrysene
Concen: 6.980 ng
RT: 21.17 min Scan# 3108
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.1	34.7
229	23.9	15.8	23.6





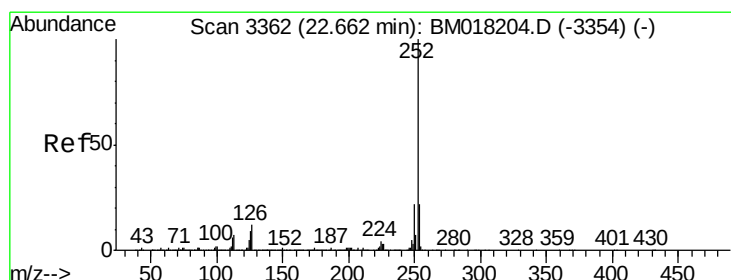
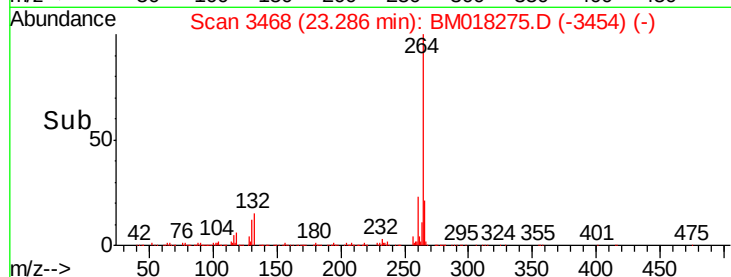
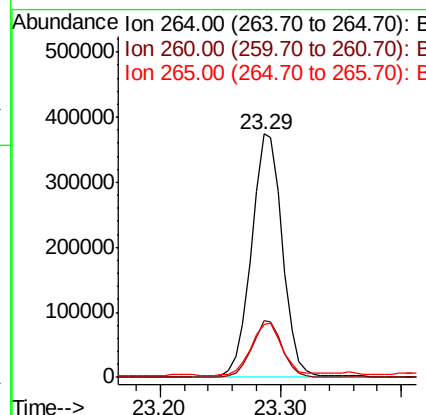
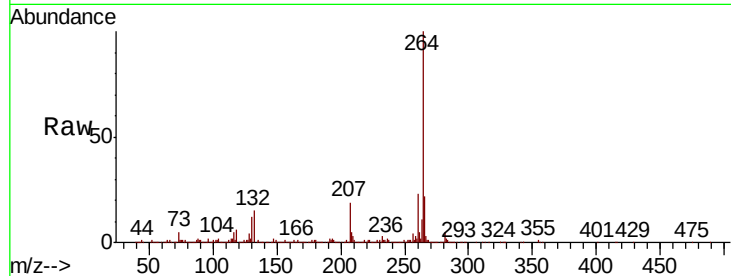
#87
Pervlene-d12
Concen: 20.000 ng
RT: 23.29 min Scan# 3468
Delta R.T. -0.02 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Instrument :
BNA_M
ClientSampled :
TP-3-BDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.2	17.5	26.3
265	21.7	17.3	25.9

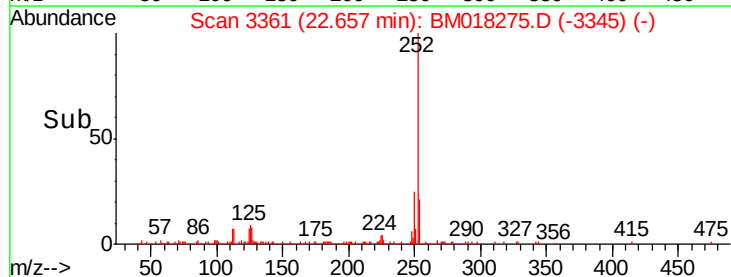
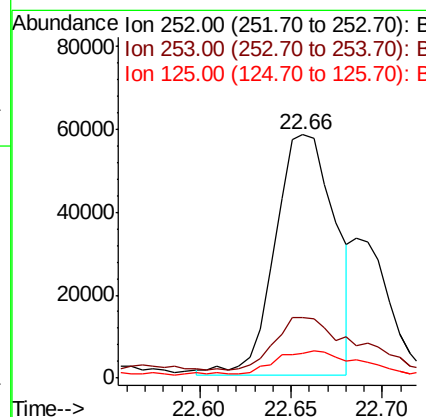
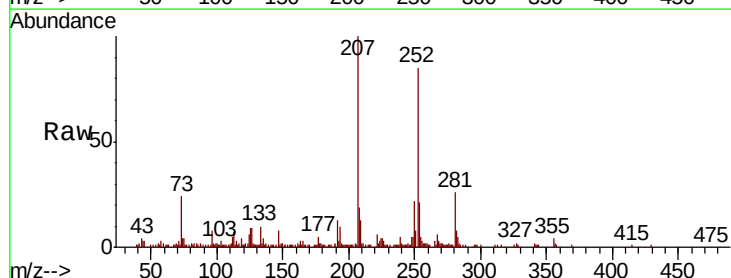
Manual Integrations
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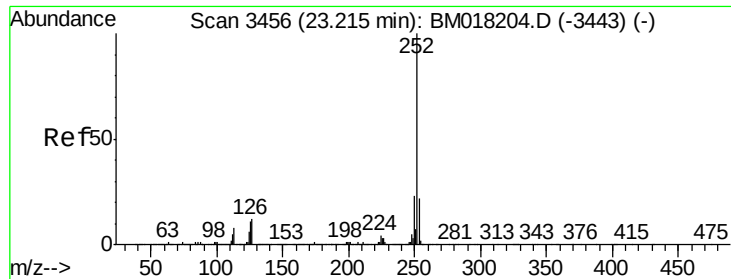
Sohil
12/19/2018 4:18:14 PM



#88
Benzo(b)fluoranthene
Concen: 3.545 ng m
RT: 22.66 min Scan# 3361
Delta R.T. -0.01 min
Lab File: BM018275.D
Acq: 18 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.6	26.4
125	10.2	7.4	11.0





#90

Benzo(a)pyrene

Concen: 4.605 ng

RT: 23.20 min Scan# 3453

Delta R.T. -0.02 min

Lab File: BM018275.D

Acq: 18 Dec 2018 17:35

Instrument :

BNA_M

ClientSampleId :

TP-3-BDL

Tot Ion:	252	Resp:	163954
Ion Ratio		Lower	Upper
252	100		
253	24.3	17.6	26.4
125	10.9	8.6	12.8

Manual Integrations
APPROVED

Sohil
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