

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
 Data File : BP000902.D
 Acq On : 19 Oct 2019 01:53
 Operator : JU
 Sample : K5436-01
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 3425-28

Manual Integrations
 APPROVED

mohammad
 10/22/2019 1:39:53 AM

Quant Time: Oct 19 06:36:17 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 16:40:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	152181	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	545674	20.00	ng	0.00
39) Acenaphthene-d10	9.79	164	301024	20.00	ng	0.00
64) Phenanthrene-d10	11.29	188	553556	20.00	ng	0.00
76) Chrysene-d12	13.96	240	475166	20.00	ng	0.00
87) Perylene-d12	15.44	264	565520	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	837841	88.50	ng	0.00
7) Phenol-d6	6.39	99	1044128	91.52	ng	0.00
23) Nitrobenzene-d5	7.30	82	571859	64.01	ng	0.00
42) 2,4,6-Tribromophenol	10.59	330	327686	102.15	ng	0.00
45) 2-Fluorobiphenyl	9.10	172	1266331	68.06	ng	0.00
79) Terphenyl-d14	12.89	244	1450562	61.81	ng	0.00
Target Compounds						
10) Phenol	6.40	94	27870	2.386	ng	89
31) Naphthalene	8.05	128	165529	6.495	ng	100
37) 2-Methylnaphthalene	8.74	142	74278	4.342	ng	99
38) 1-Methylnaphthalene	8.84	142	52028	3.219	ng	98
49) Acenaphthylene	9.65	152	124662	4.703	ng	98
50) Dimethylphthalate	9.50	163	250309	11.967	ng	100
52) Acenaphthene	9.82	154	99373	6.180	ng	100
55) Dibenzofuran	9.99	168	179002	7.447	ng	98
58) Fluorene	10.34	166	230747	13.469	ng	99
71) Phenanthrene	11.32	178	2113388	76.019	ng	99
72) Anthracene	11.36	178	480077	17.416	ng	100
73) Carbazole	11.52	167	212397	8.312	ng	100
75) Fluoranthene	12.52	202	2400873	76.893	ng	98
78) Pyrene	12.75	202	2053269	62.653	ng	99
81) Benzo(a)anthracene	13.96	228	1132796	39.073	ng	98
83) Chrysene	13.99	228	1040276	36.558	ng	98
86) Indeno(1,2,3-cd)pyrene	16.91	276	496061	13.956	ng	95
88) Benzo(b)fluoranthene	15.02	252	1321085m	41.177	ng	
89) Benzo(k)fluoranthene	15.04	252	414469m	13.569	ng	
90) Benzo(a)pyrene	15.38	252	896145	29.964	ng	98
91) Dibenzo(a,h)anthracene	16.92	278	144631	4.986	ng	94
92) Benzo(g,h,i)perylene	17.36	276	442558	15.015	ng	98

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

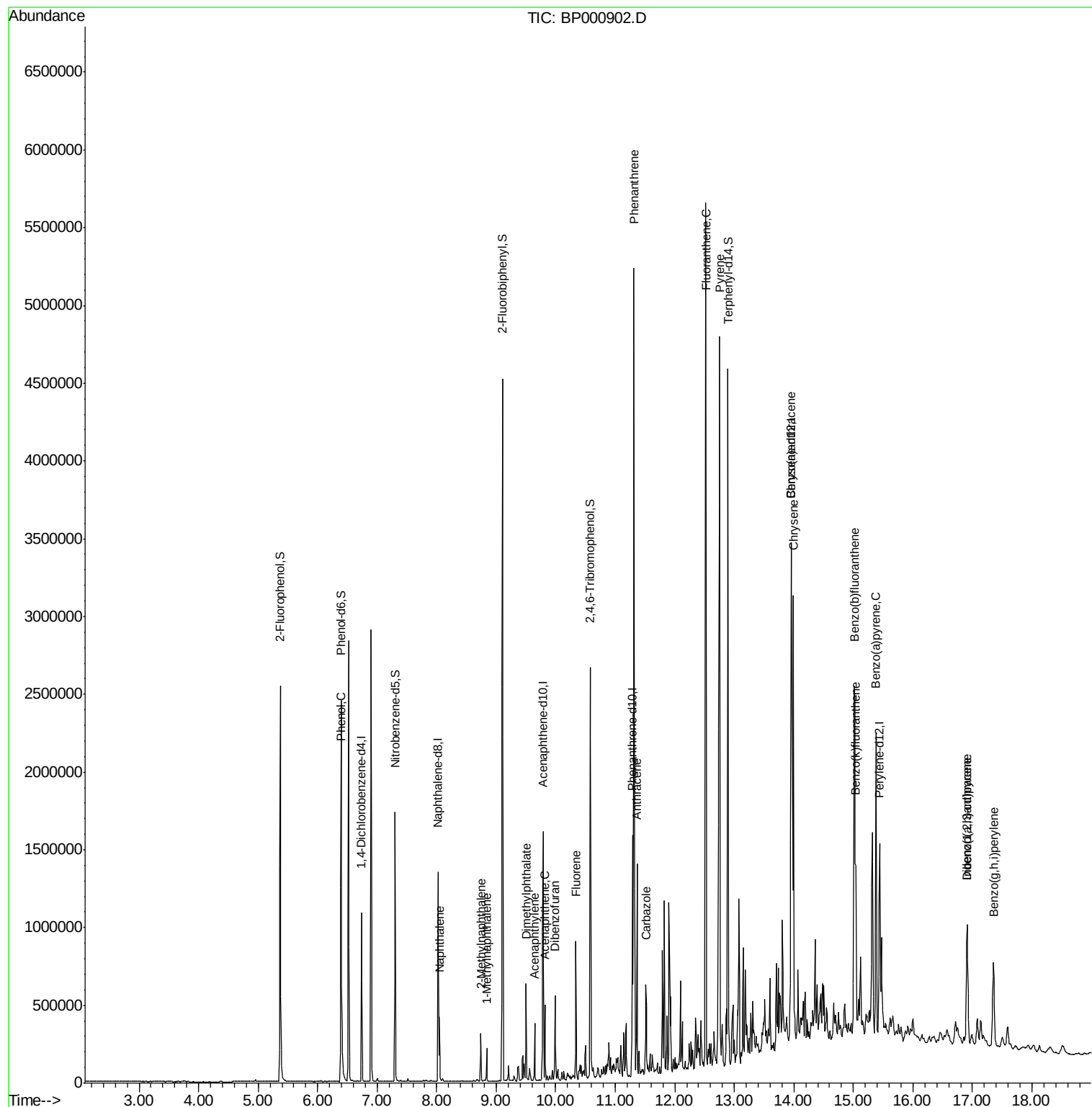
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101819\
Data File : BP000902.D
Acq On : 19 Oct 2019 01:53
Operator : JU
Sample : K5436-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

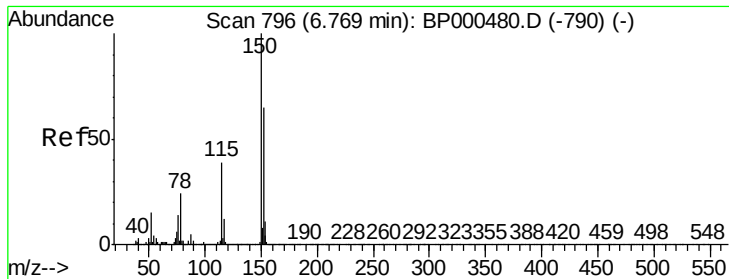
Instrument :
BNA_P
ClientSampleId :
3425-28

Manual Integrations
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

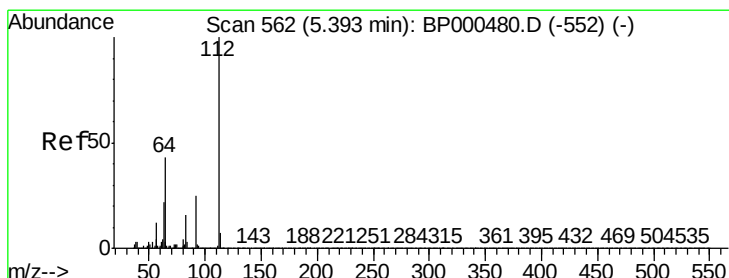
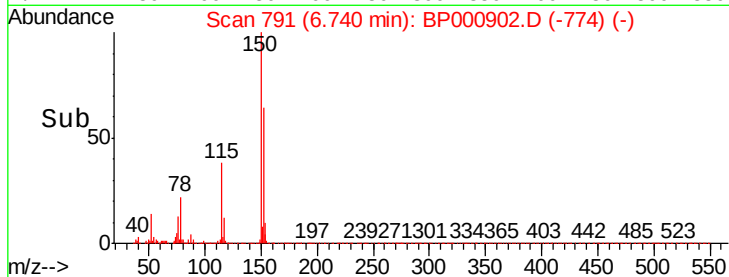
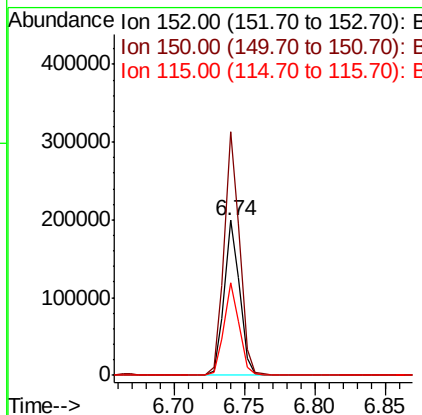
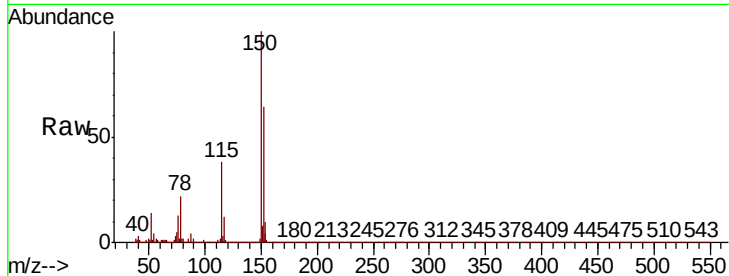
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.74 min Scan# 791
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleId :
3425-28

Tot Ion	Ratio	Resp	Lower	Upper
152	100	152181		
150	157.3	123.8	185.8	
115	60.0	46.8	70.2	

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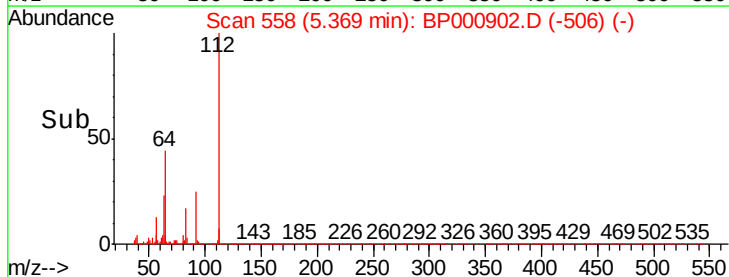
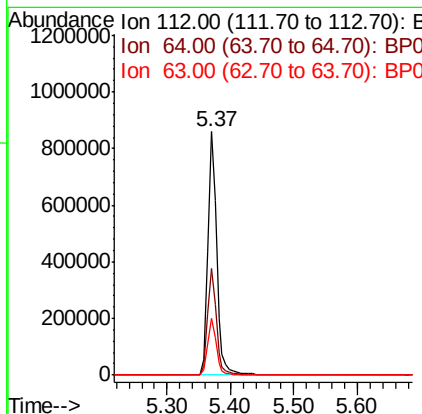
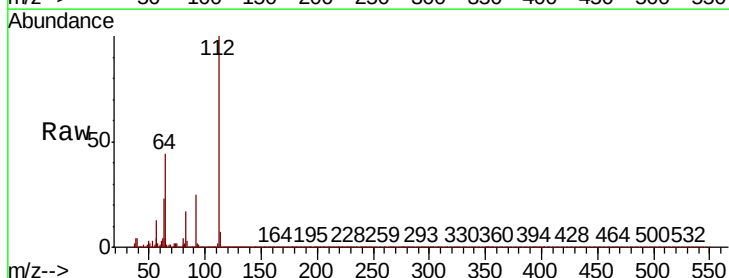
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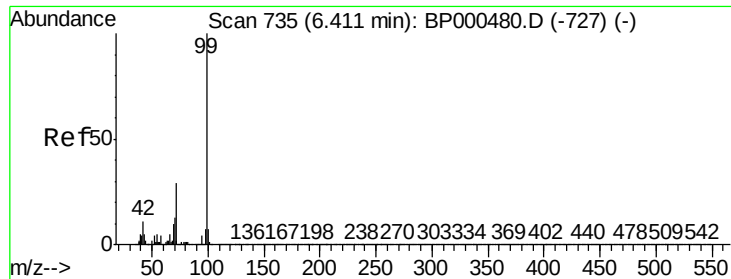


#5

2-Fluorophenol
Concen: 88.499 ng
RT: 5.37 min Scan# 558
Delta R.T. 0.01 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	837841		
64	44.0	33.9	50.9	
63	23.3	17.4	26.0	





#7

Phenol-d6

Concen: 91.522 ng

RT: 6.39 min Scan# 732

Delta R.T. 0.01 min

Lab File: BP000902.D

Acq: 19 Oct 2019 01:53

Instrument :

BNA_P

ClientSampled :

3425-28

Tot Ion: 99 Resp: 1044128

Ion Ratio Lower Upper

99 100

42 12.0 8.7 13.1

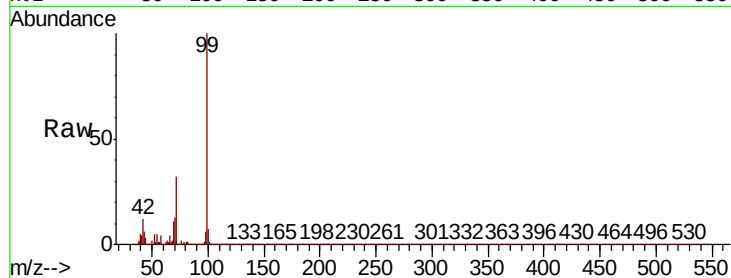
71 32.0 24.1 36.1

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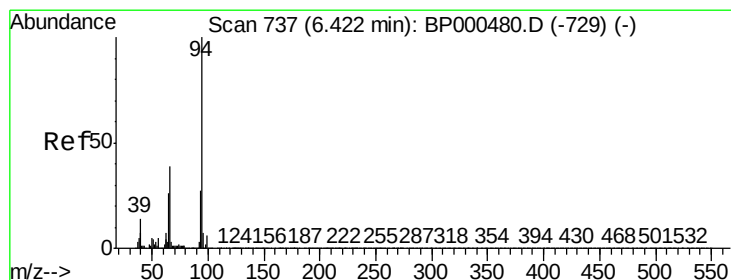
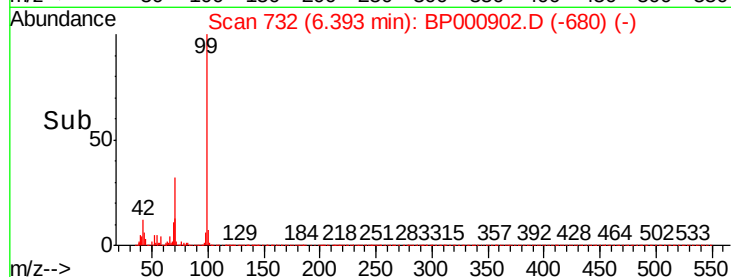
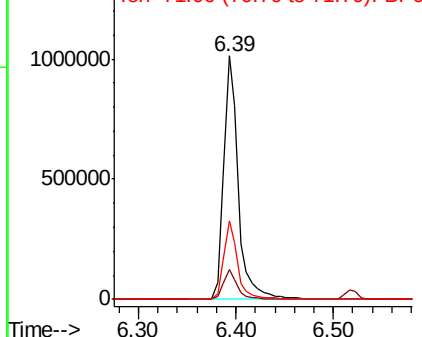
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Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#10

Phenol

Concen: 2.386 ng

RT: 6.40 min Scan# 734

Delta R.T. 0.01 min

Lab File: BP000902.D

Acq: 19 Oct 2019 01:53

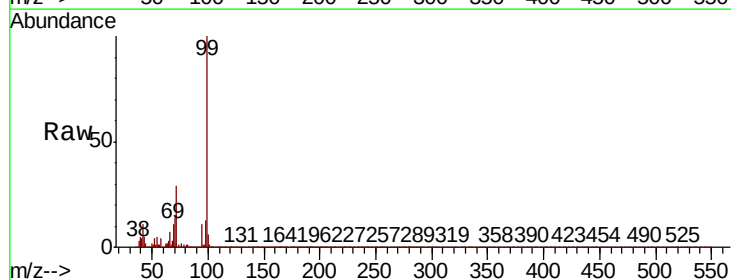
Tgt Ion: 94 Resp: 27870

Ion Ratio Lower Upper

94 100

65 30.0 14.6 54.6

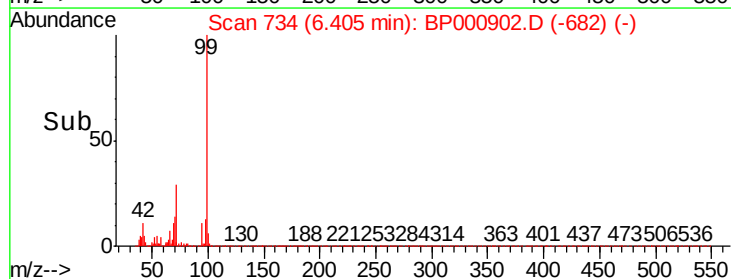
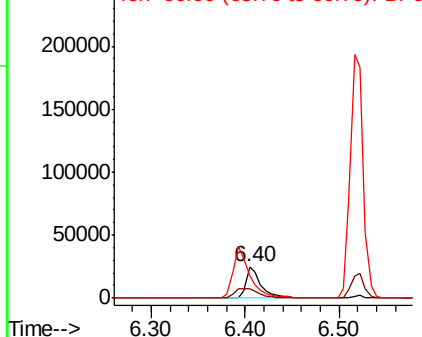
66 68.3 39.2 79.2

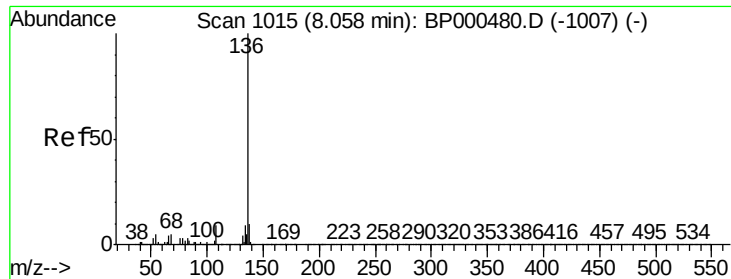


Abundance Ion 94.00 (93.70 to 94.70): BP0

Ion 65.00 (64.70 to 65.70): BP0

Ion 66.00 (65.70 to 66.70): BP0





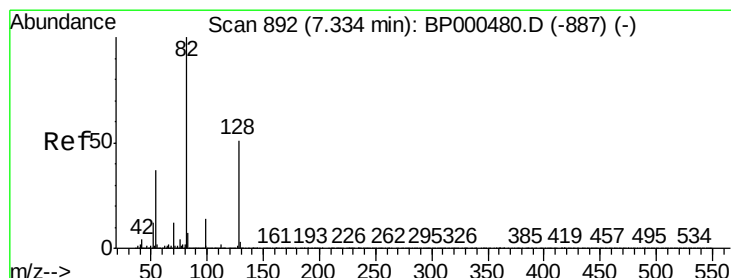
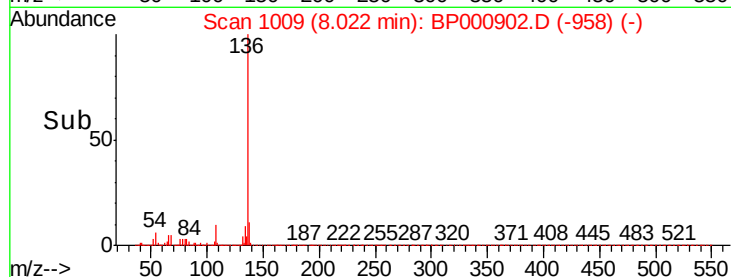
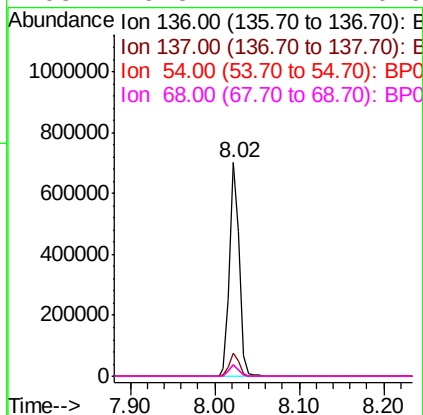
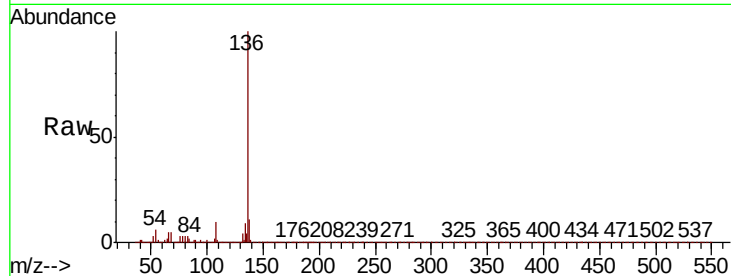
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleId :
3425-28

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		545674		
137	11.0	8.9	13.3		
54	5.7	4.6	6.8		
68	5.3	4.4	6.6		

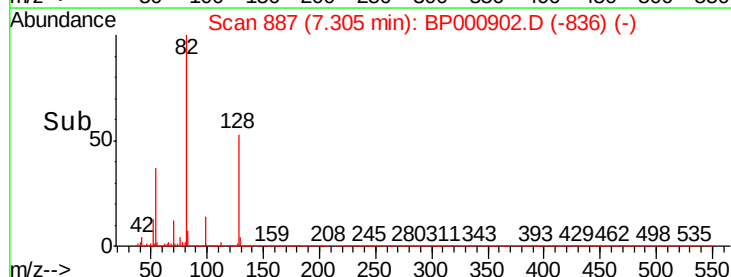
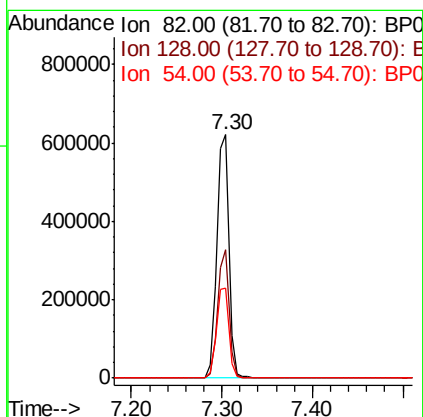
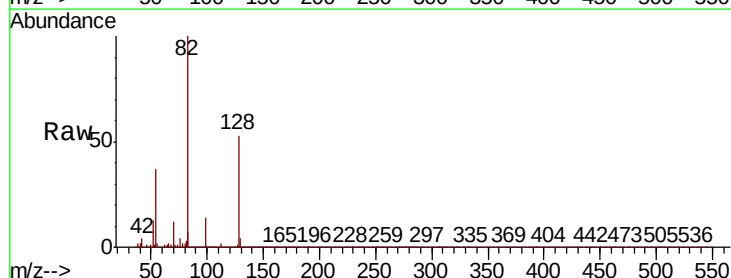
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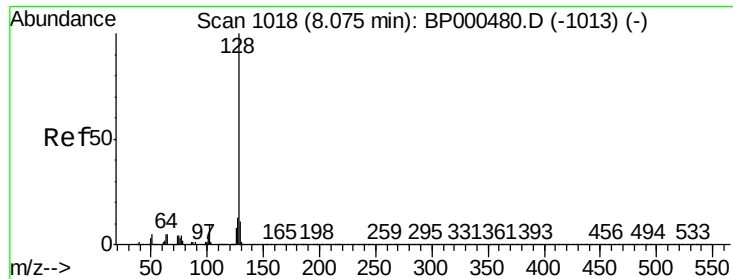
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#23
Nitrobenzene-d5
Concen: 64.006 ng
RT: 7.30 min Scan# 887
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		571859		
128	53.0	41.2	61.8		
54	37.1	30.6	45.8		





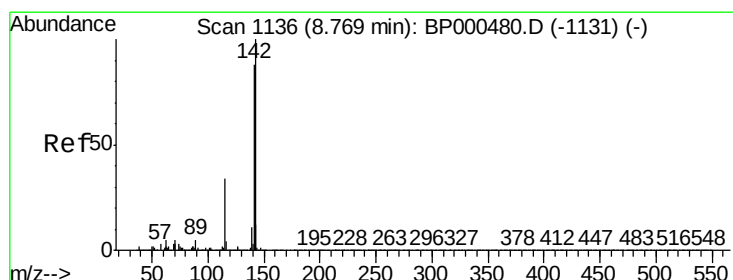
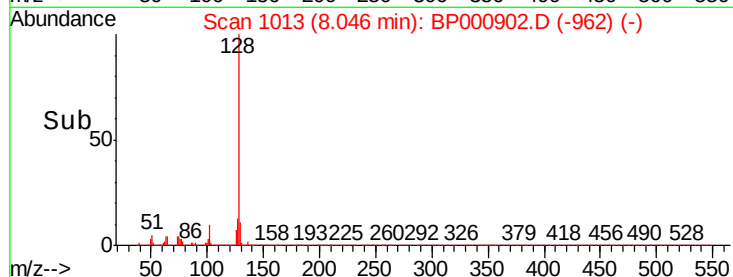
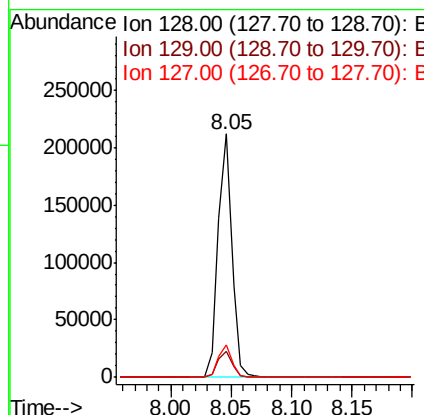
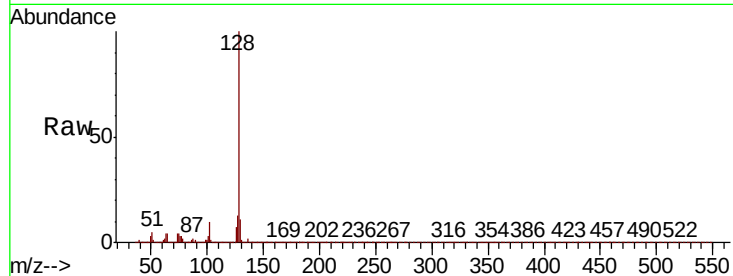
#31
Naphthalene
Concen: 6.495 ng
RT: 8.05 min Scan# 1013
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleId :
3425-28

Tot Ion	Ratio	Resp Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.3	10.8	16.2

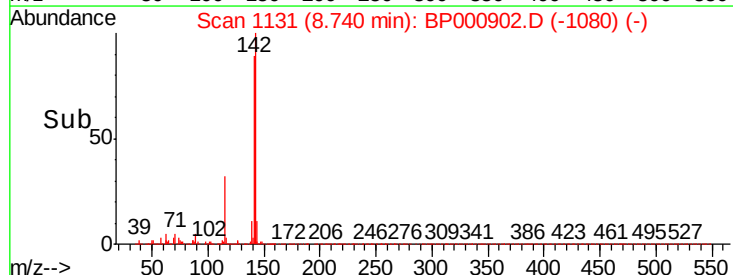
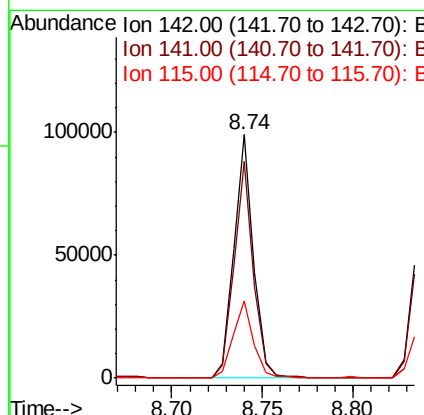
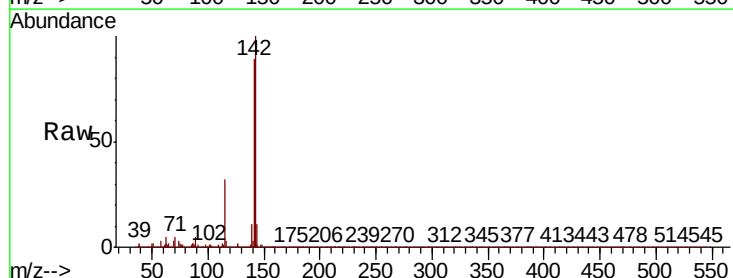
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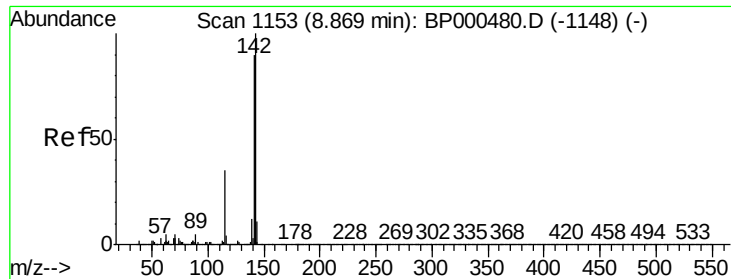
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#37
2-Methylnaphthalene
Concen: 4.342 ng
RT: 8.74 min Scan# 1131
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Resp Lower	Upper
142	100		
141	89.2	71.0	106.4
115	32.0	26.9	40.3





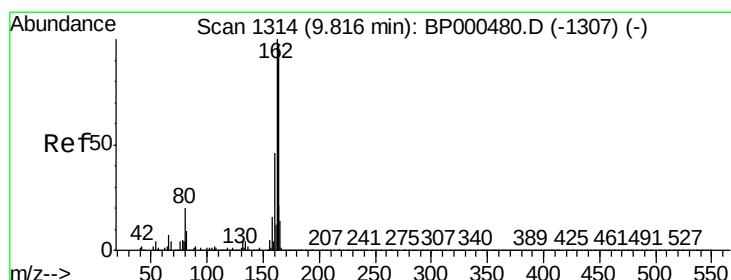
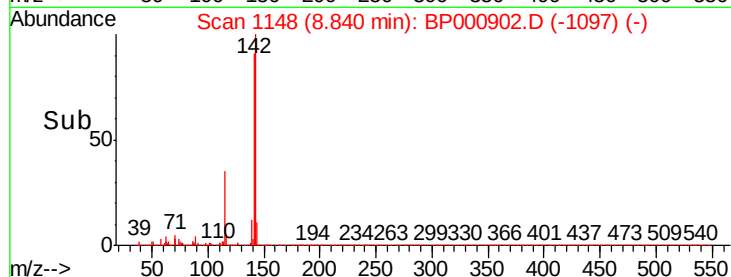
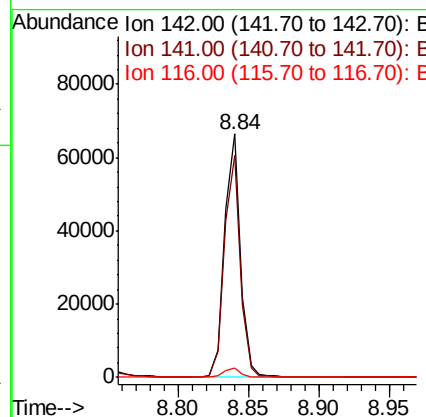
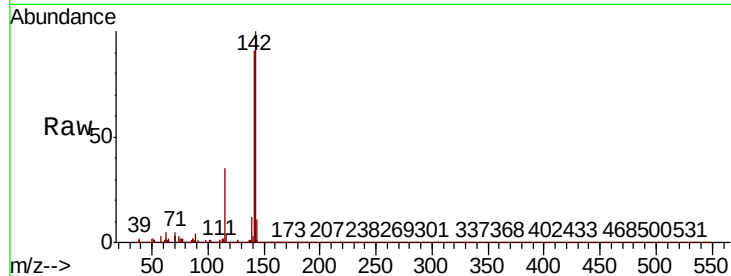
#38
1-Methylnaphthalene
Concen: 3.219 ng
RT: 8.84 min Scan# 1148
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleId :
3425-28

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.3	74.6	111.8
116	3.7	2.9	4.3

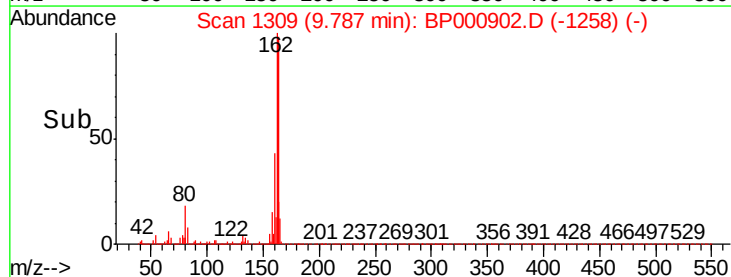
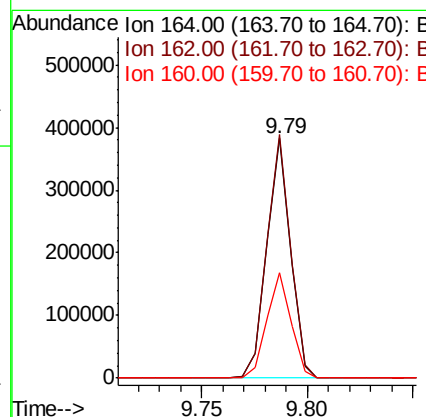
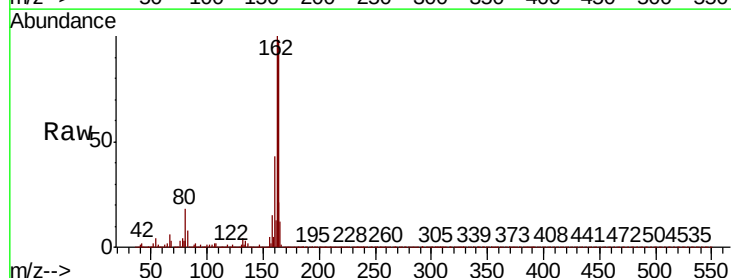
Manual Integrations
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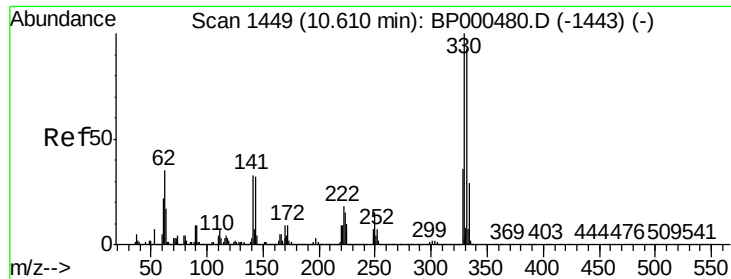
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.79 min Scan# 1309
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.6	80.6	121.0
160	44.1	35.4	53.2





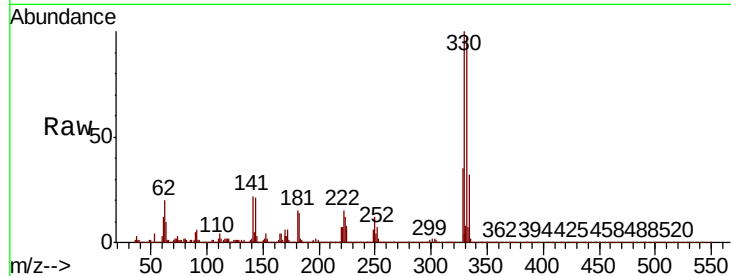
#42
2,4,6-Tribromophenol
Concen: 102.154 ng
RT: 10.59 min Scan# 1445
Delta R.T. 0.01 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleId :
3425-28

Tot Ion	Ratio	Resp	Lower	Upper
330	100	327686		
332	96.7		78.2	117.4
141	30.0		23.7	35.5

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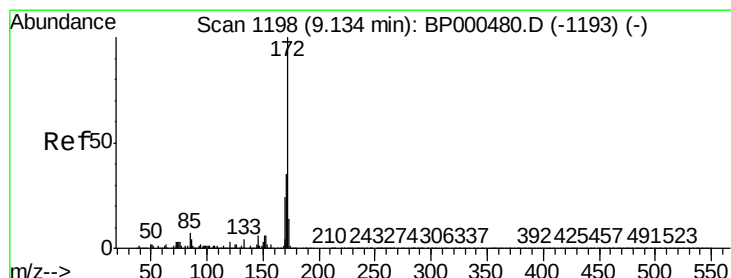
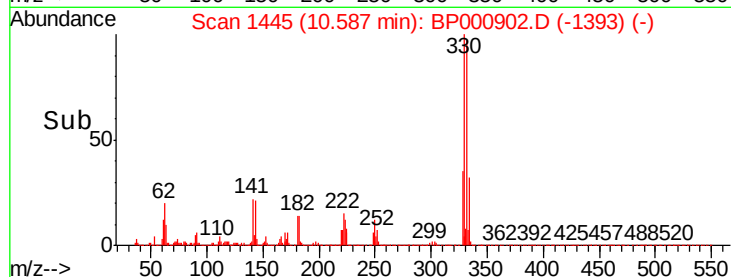
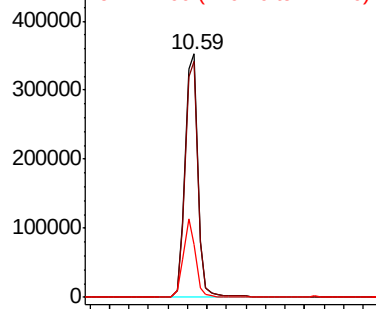


Abundance

Ion 329.80 (329.50 to 330.50): E

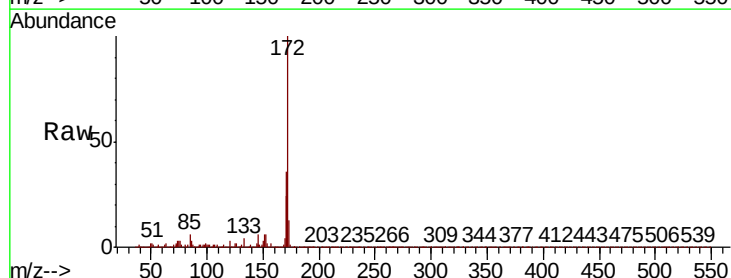
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
2-Fluorobiphenyl
Concen: 68.065 ng
RT: 9.10 min Scan# 1193
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1266331		
171	35.9		29.0	43.4
170	24.1		19.3	28.9

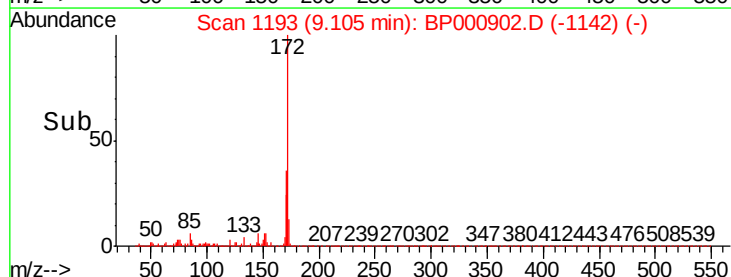
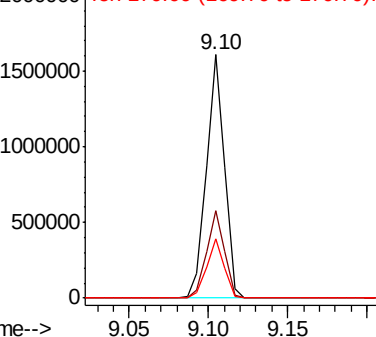


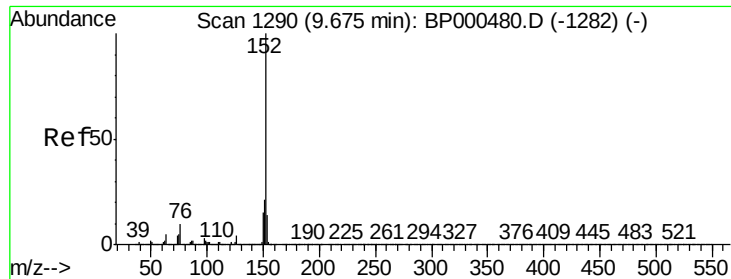
Abundance

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





#49

Acenaphthylene

Concen: 4.703 ng

RT: 9.65 min Scan# 1285

Delta R.T. 0.00 min

Lab File: BP000902.D

Acq: 19 Oct 2019 01:53

Instrument :

BNA_P

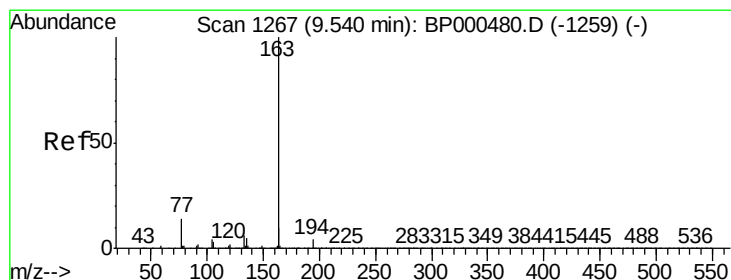
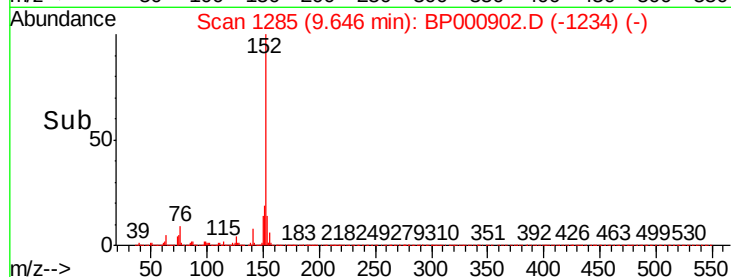
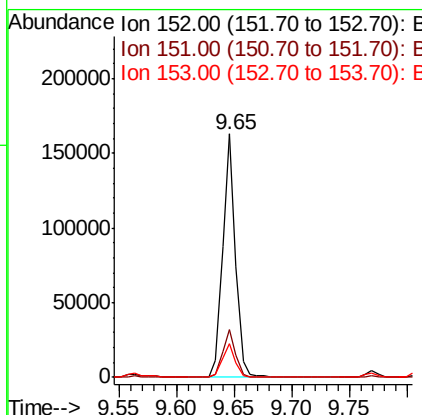
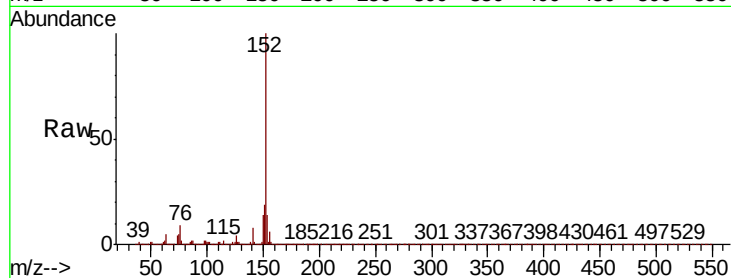
ClientSampleId :

3425-28

Tot Ion:	152	Resp:	124662
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.2	24.2
153	14.0	10.7	16.1

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#50

Dimethylphthalate

Concen: 11.967 ng

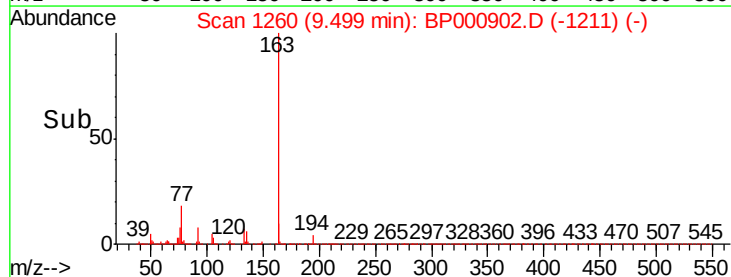
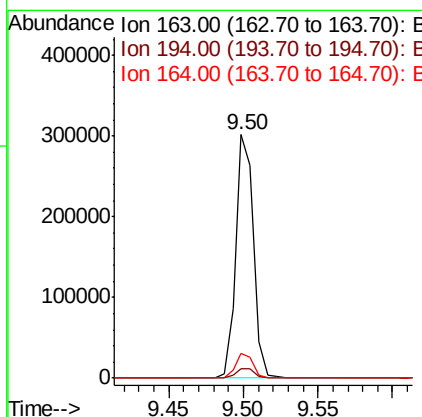
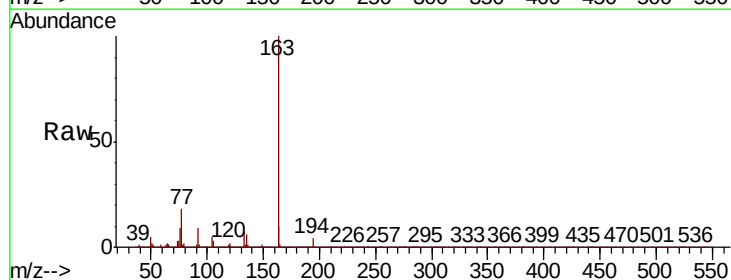
RT: 9.50 min Scan# 1260

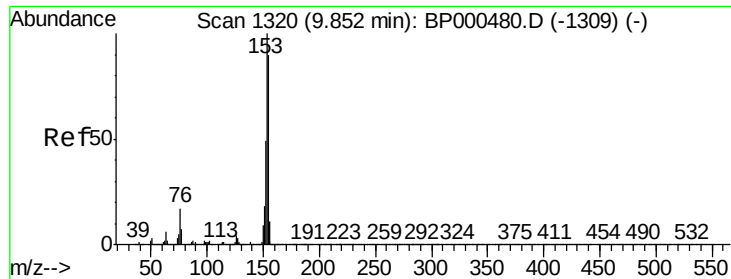
Delta R.T. -0.01 min

Lab File: BP000902.D

Acq: 19 Oct 2019 01:53

Tgt Ion:	163	Resp:	250309
Ion Ratio	Lower	Upper	
163	100		
194	4.1	3.5	5.3
164	10.3	8.3	12.5





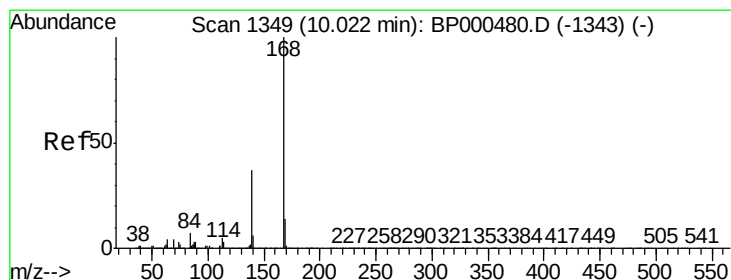
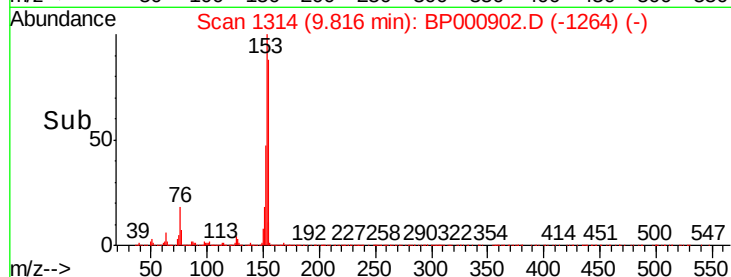
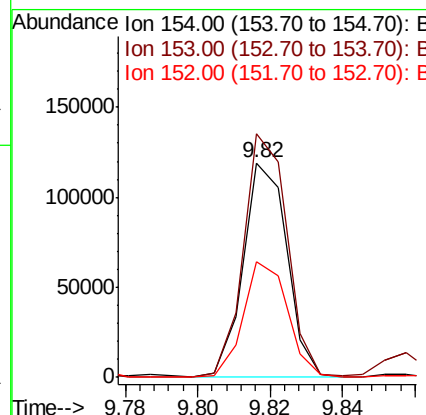
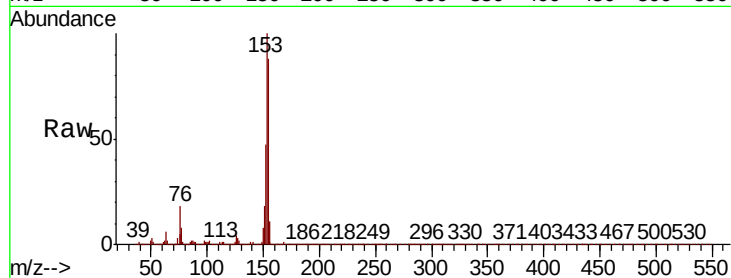
#52
Acenaphthene
Concen: 6.180 ng
RT: 9.82 min Scan# 1314
Delta R.T. -0.01 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleId :
3425-28

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.4	90.4	135.6
152	53.5	42.5	63.7

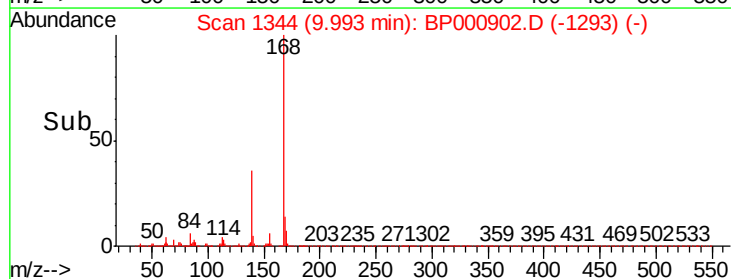
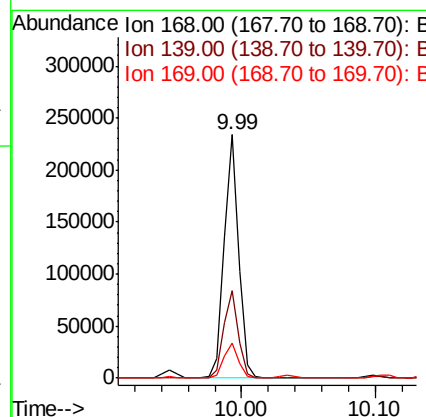
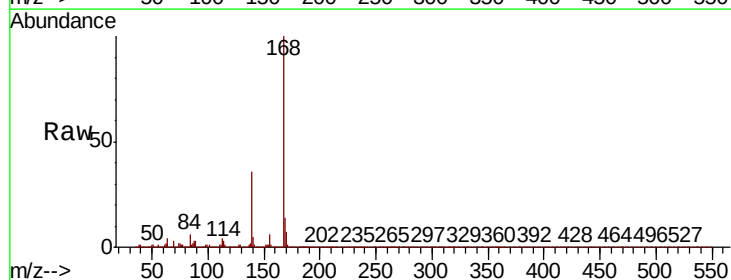
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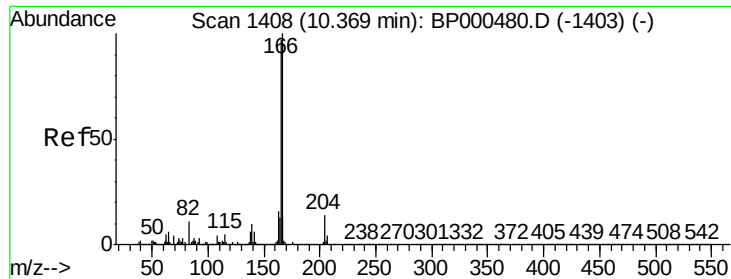
mohammad
10/22/2019 1:39:53 AM



#55
Dibenzofuran
Concen: 7.447 ng
RT: 9.99 min Scan# 1344
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.1	29.8	44.6
169	14.2	10.9	16.3





#58

Fluorene

Concen: 13.469 ng

RT: 10.34 min Scan# 1403

Delta R.T. 0.00 min

Lab File: BP000902.D

Acq: 19 Oct 2019 01:53

Instrument :

BNA_P

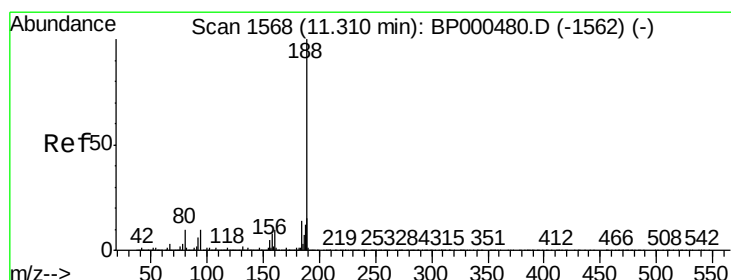
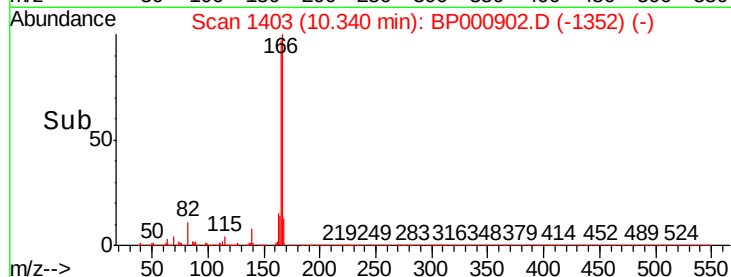
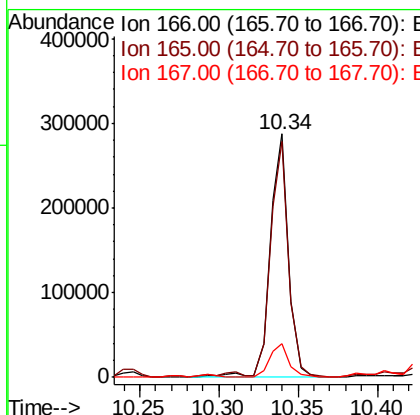
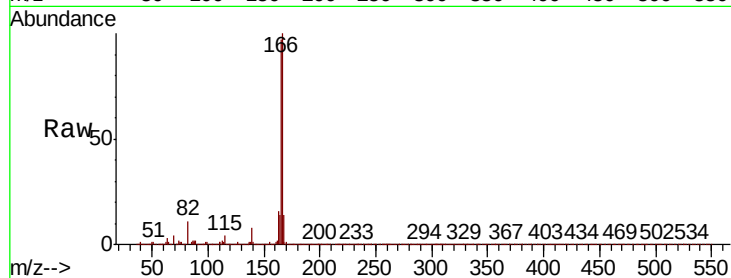
ClientSampleId :

3425-28

Tot Ion:	166	Resp:	230747
Ion Ratio	Lower	Upper	
166	100		
165	97.1	78.4	117.6
167	13.7	10.6	15.8

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#64

Phenanthrene-d10

Concen: 20.000 ng

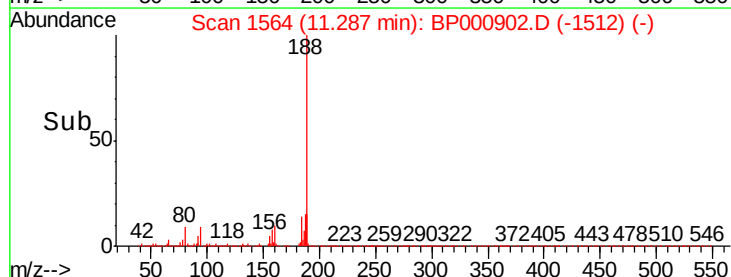
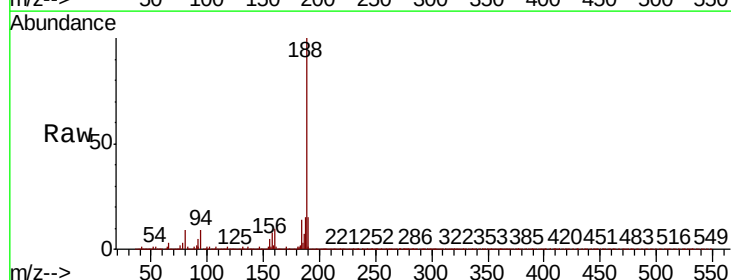
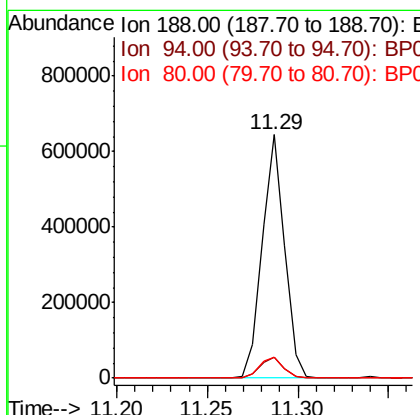
RT: 11.29 min Scan# 1564

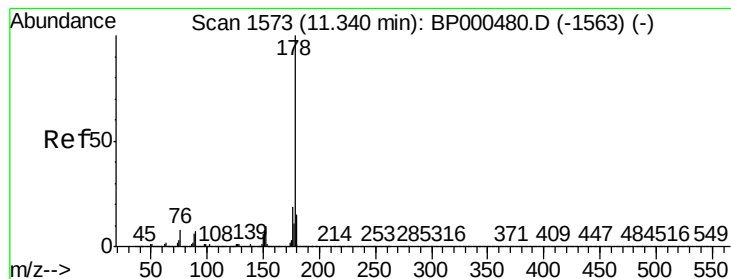
Delta R.T. 0.01 min

Lab File: BP000902.D

Acq: 19 Oct 2019 01:53

Tgt Ion:	188	Resp:	553556
Ion Ratio	Lower	Upper	
188	100		
94	8.8	8.0	12.0
80	8.8	8.2	12.4





#71

Phenanthrene

Concen: 76.019 ng

RT: 11.32 min Scan# 1569

Delta R.T. 0.01 min

Lab File: BP000902.D

Acq: 19 Oct 2019 01:53

Instrument :

BNA_P

ClientSampleId :

3425-28

Tot Ion:178 Resp: 2113388

Ion Ratio Lower Upper

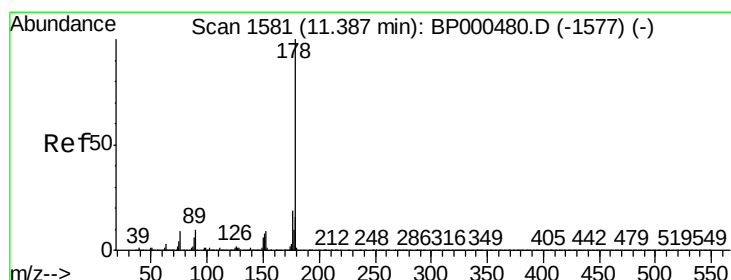
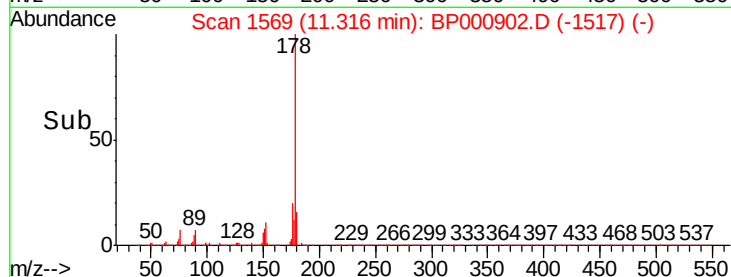
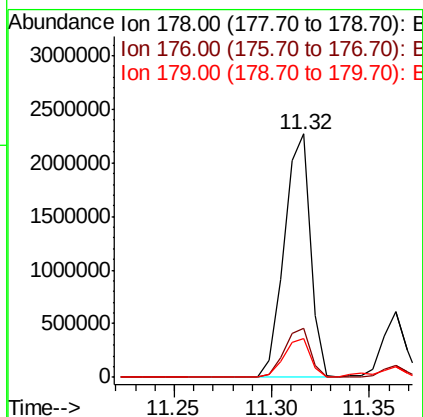
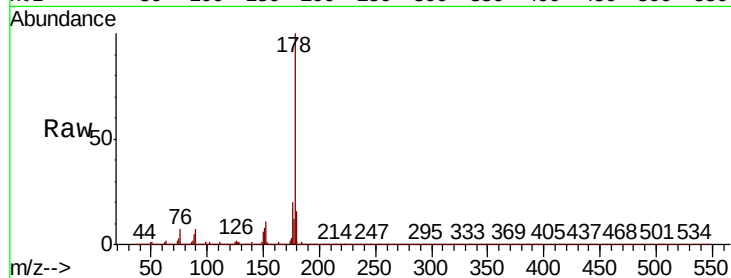
178 100

176 20.0 15.7 23.5

179 15.9 12.5 18.7

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#72

Anthracene

Concen: 17.416 ng

RT: 11.36 min Scan# 1577

Delta R.T. 0.00 min

Lab File: BP000902.D

Acq: 19 Oct 2019 01:53

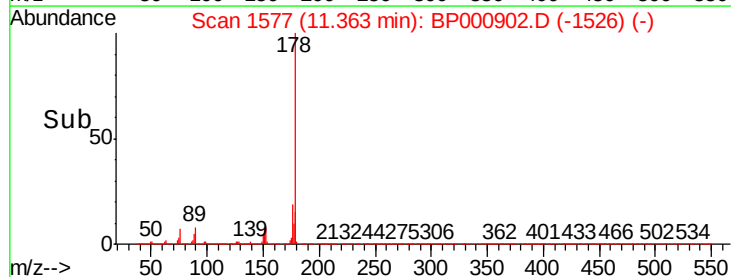
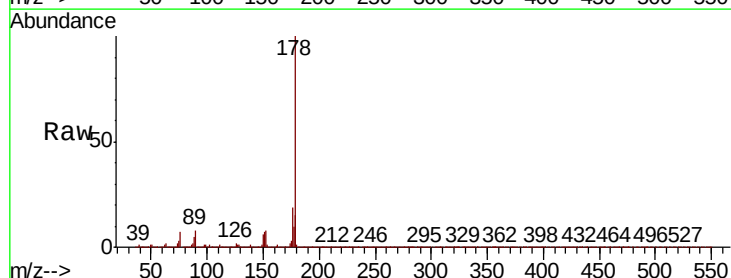
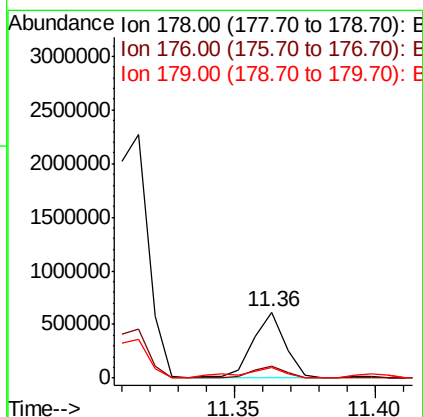
Tgt Ion:178 Resp: 480077

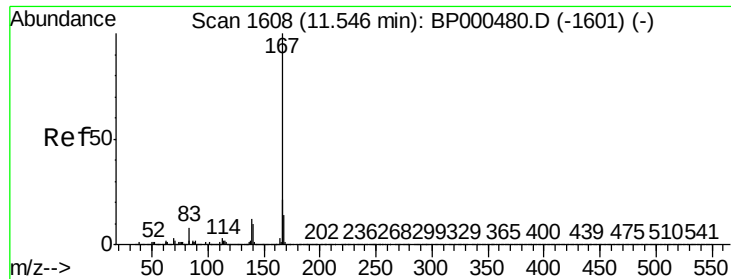
Ion Ratio Lower Upper

178 100

176 18.6 14.8 22.2

179 15.4 12.3 18.5





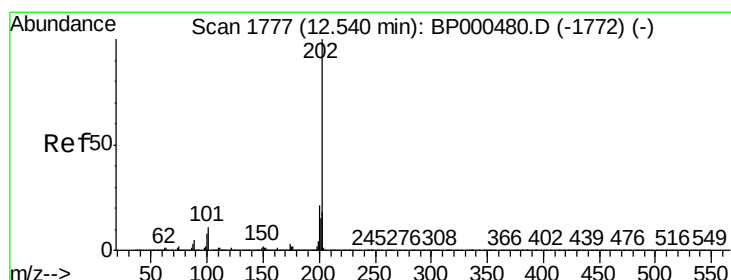
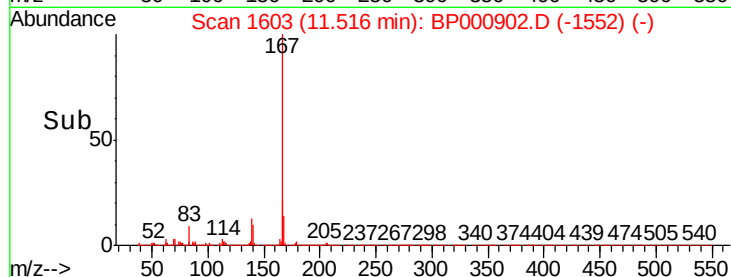
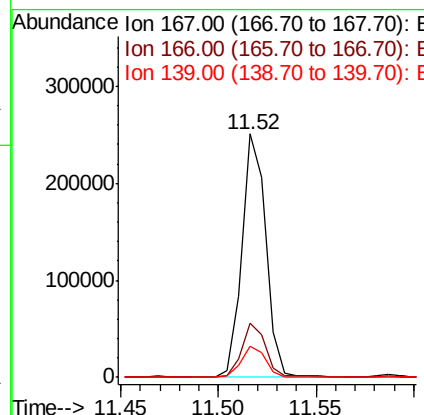
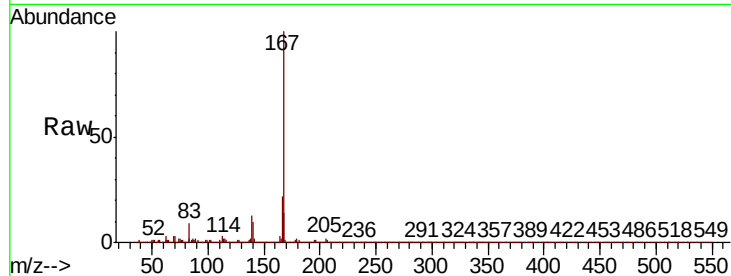
#73
 Carbazole
 Concen: 8.312 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. 0.00 min
 Lab File: BP000902.D
 Acq: 19 Oct 2019 01:53

Instrument :
 BNA_P
 ClientSampleId :
 3425-28

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.4	26.2
139	13.0	10.5	15.7

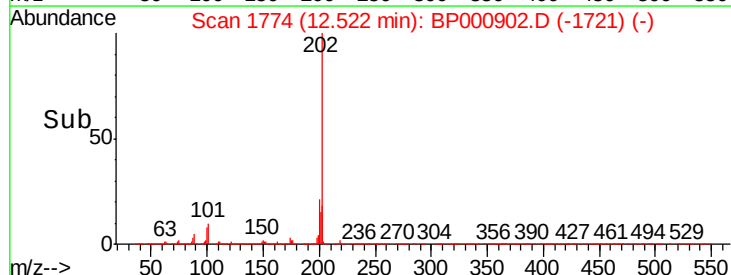
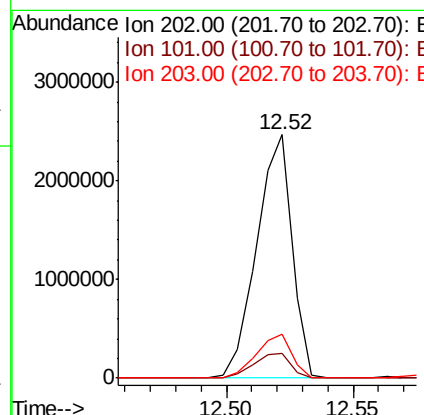
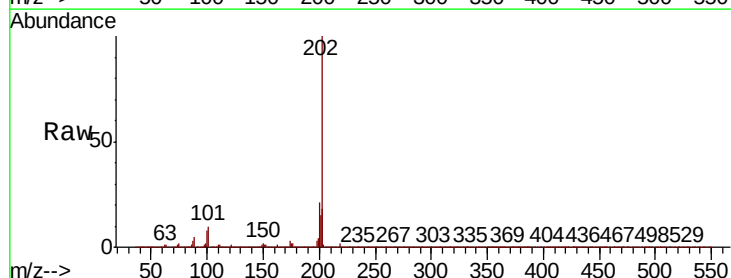
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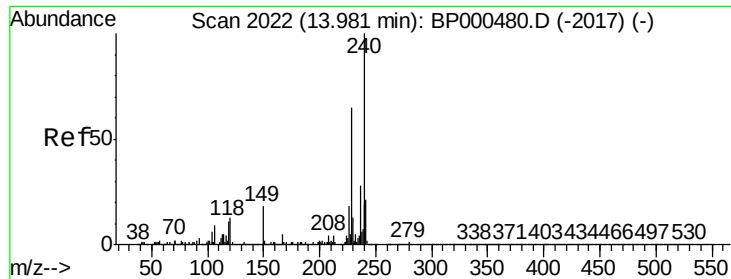
mohammad
 10/22/2019 1:39:53 AM



#75
 Fluoranthene
 Concen: 76.893 ng
 RT: 12.52 min Scan# 1774
 Delta R.T. 0.01 min
 Lab File: BP000902.D
 Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	31.6
203	17.9	0.0	38.0





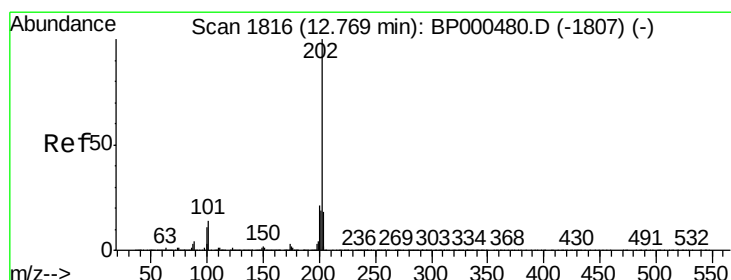
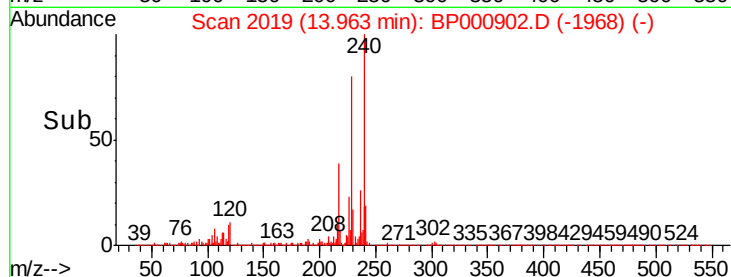
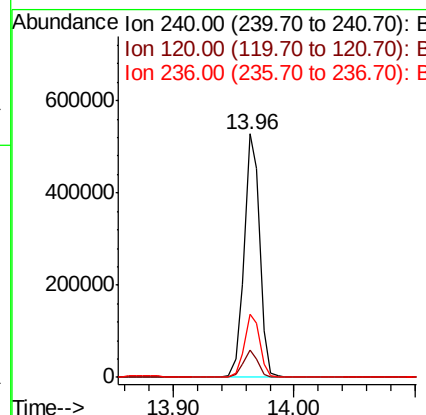
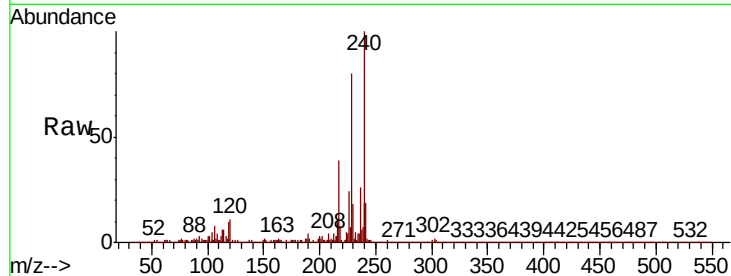
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.96 min Scan# 2019
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleId :
3425-28

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.3	10.9
236	26.0	21.2	31.8

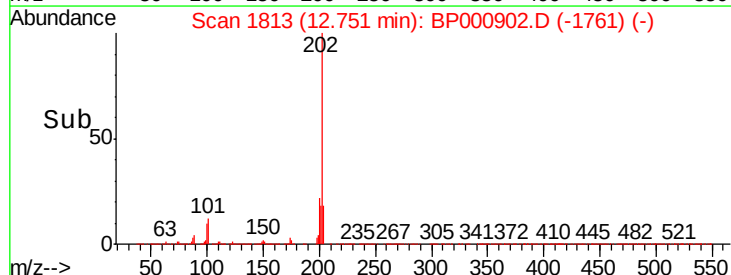
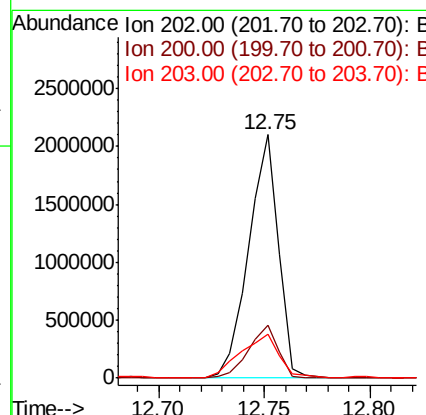
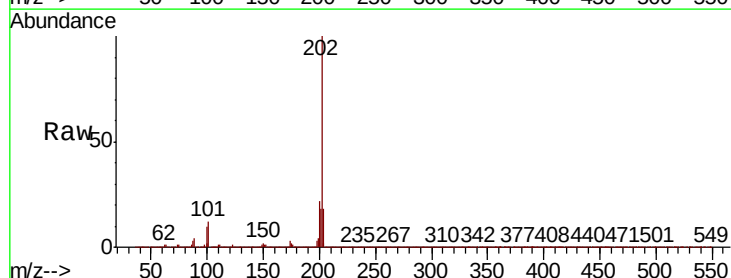
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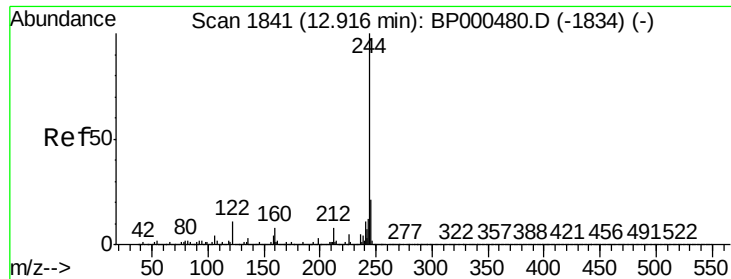
mohammad
10/22/2019 1:39:53 AM



#78
Pyrene
Concen: 62.653 ng
RT: 12.75 min Scan# 1813
Delta R.T. 0.01 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.0
203	18.2	14.1	21.1





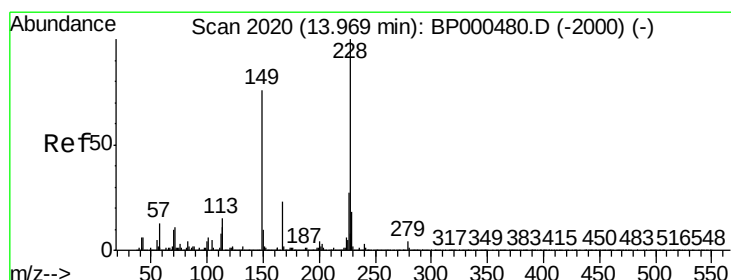
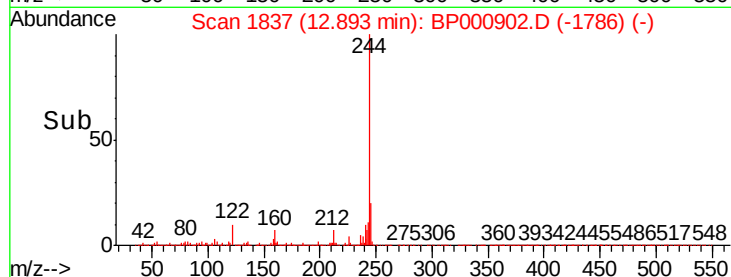
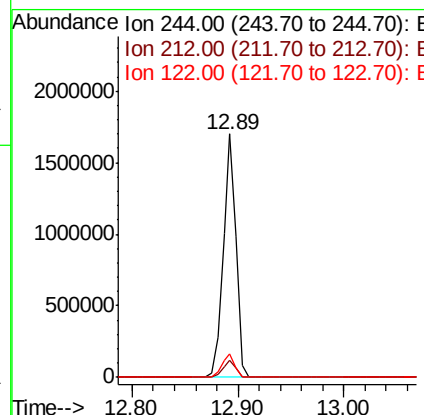
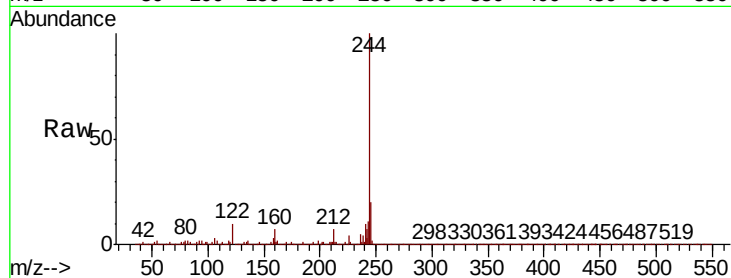
#79
 Terphenyl-d14
 Concen: 61.810 ng
 RT: 12.89 min Scan# 1837
 Delta R.T. 0.00 min
 Lab File: BP000902.D
 Acq: 19 Oct 2019 01:53

Instrument :
 BNA_P
 ClientSampleId :
 3425-28

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.5	8.3
122	9.8	7.1	10.7

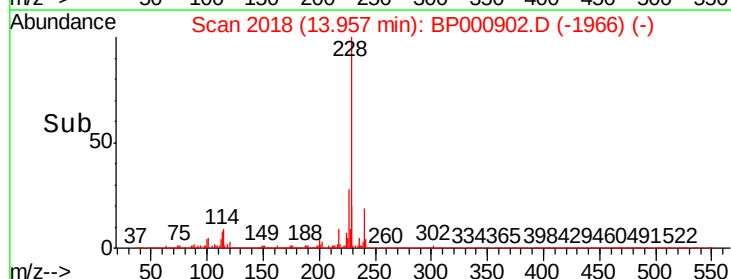
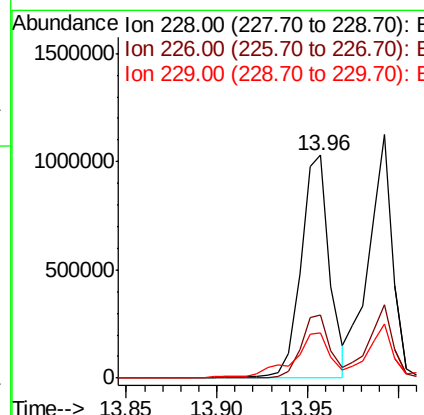
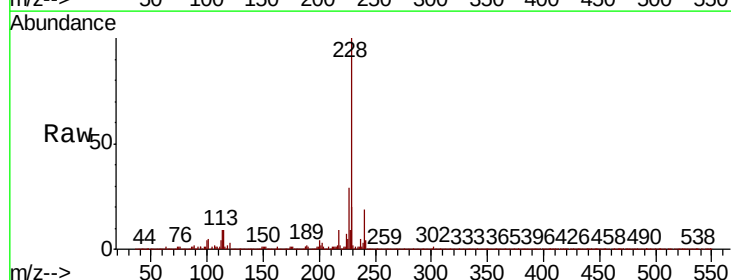
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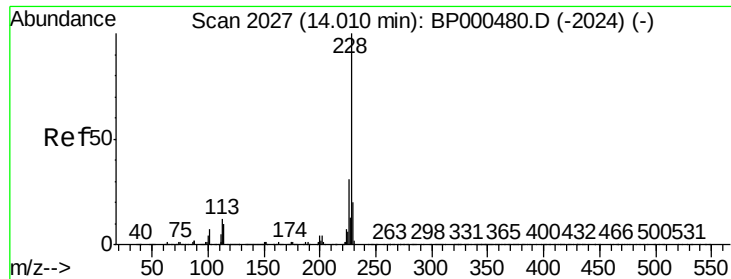
mohammad
 10/22/2019 1:39:53 AM



#81
 Benzo(a)anthracene
 Concen: 39.073 ng
 RT: 13.96 min Scan# 2018
 Delta R.T. 0.01 min
 Lab File: BP000902.D
 Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.6	21.8	32.8
229	20.4	15.7	23.5





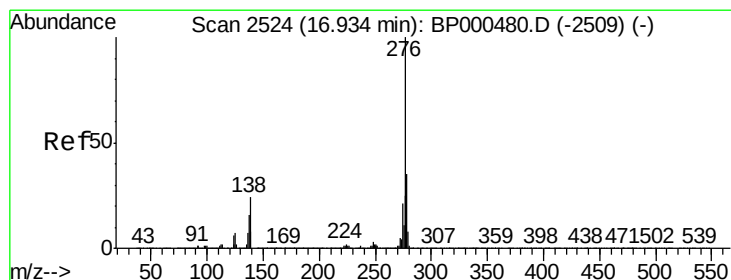
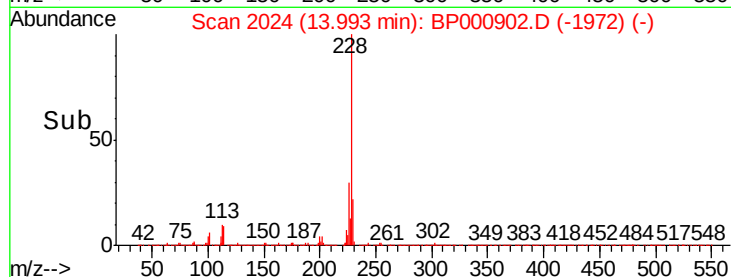
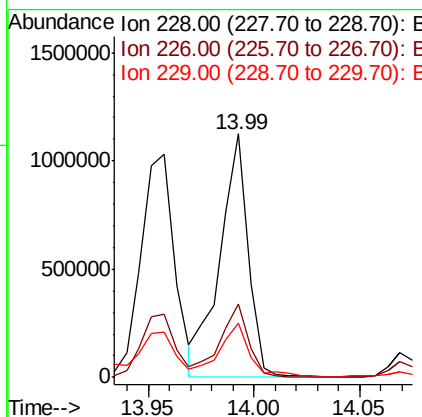
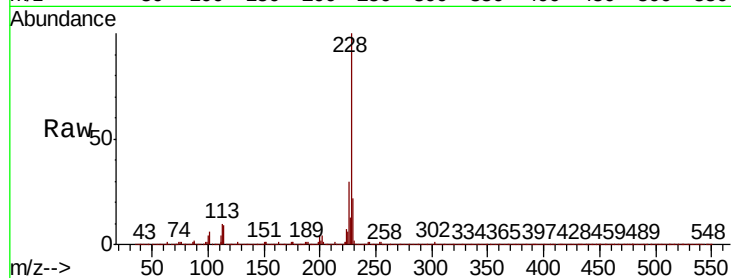
#83
Chrysene
Concen: 36.558 ng
RT: 13.99 min Scan# 2024
Delta R.T. 0.01 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleId :
3425-28

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.4	36.6
229	22.4	16.2	24.2

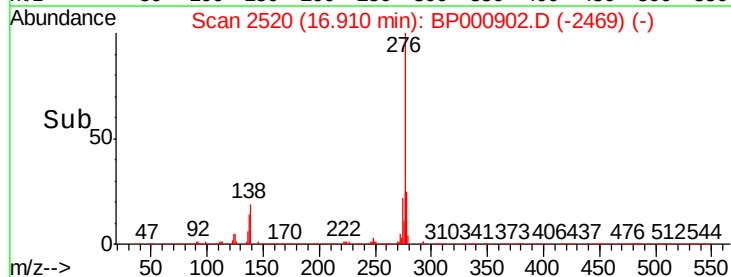
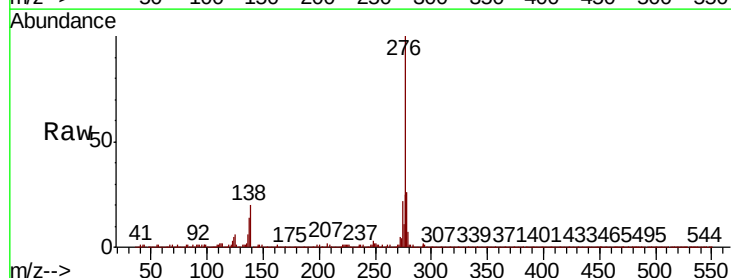
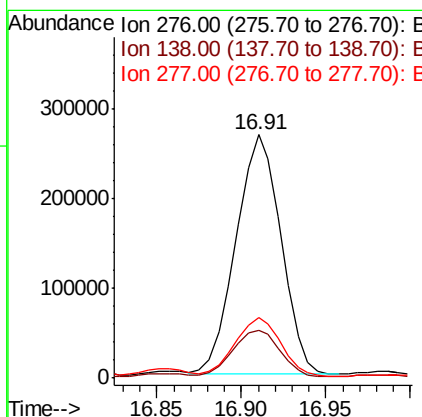
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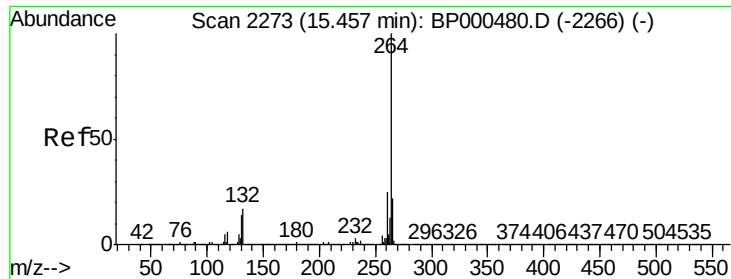
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 13.956 ng
RT: 16.91 min Scan# 2520
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.4	19.1	28.7
277	24.4	20.4	30.6





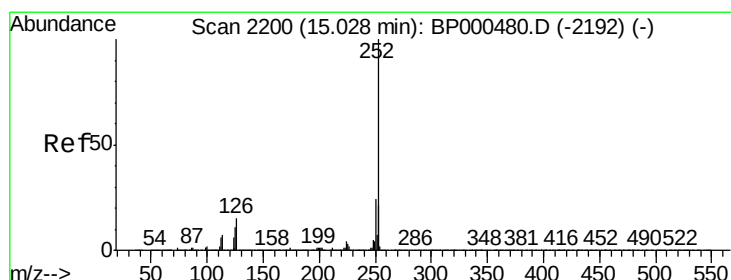
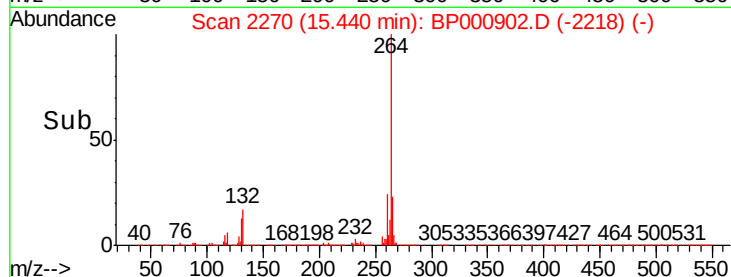
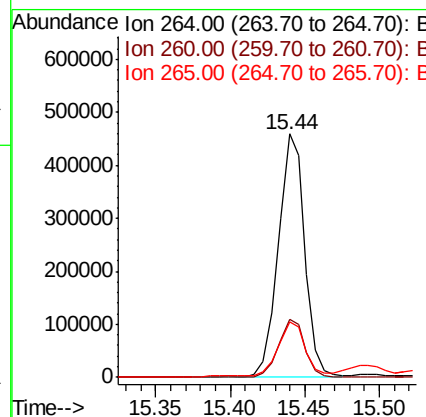
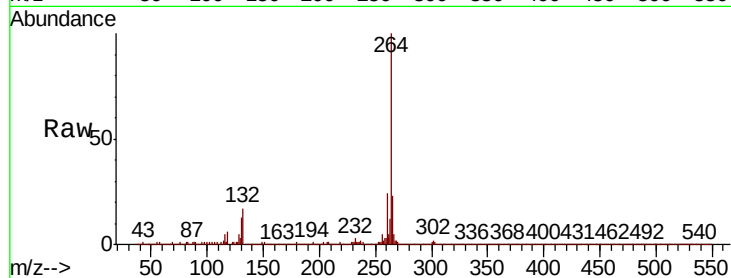
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.01 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleId :
3425-28

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.3	28.9
265	22.9	17.4	26.0

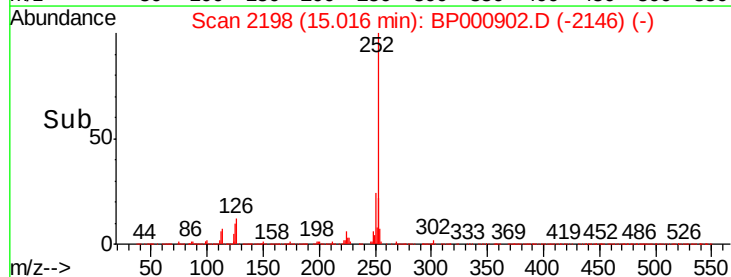
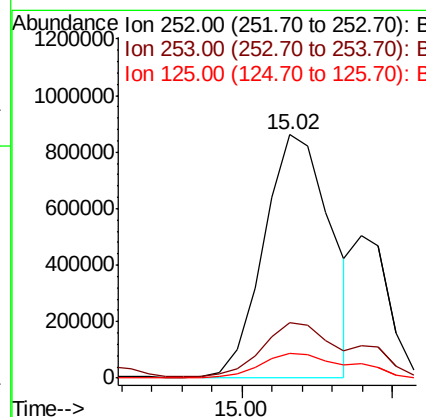
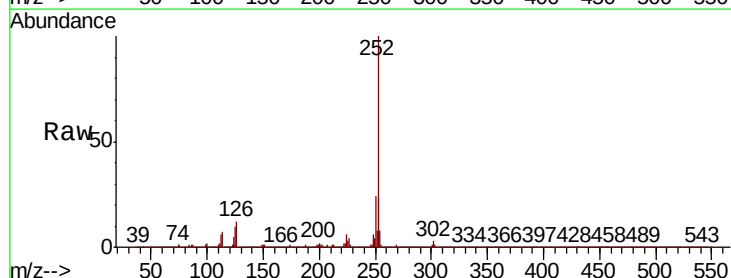
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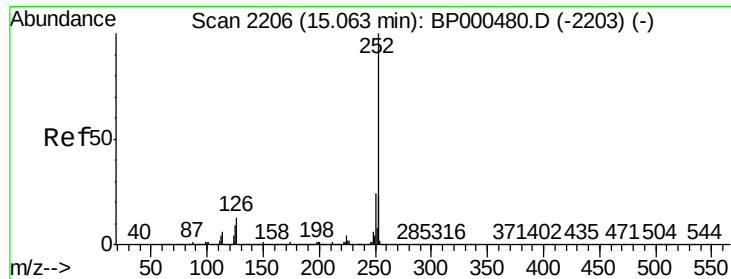
mohammad
10/22/2019 1:39:53 AM



#88
Benzo(b)fluoranthene
Concen: 41.177 ng m
RT: 15.02 min Scan# 2198
Delta R.T. 0.01 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2
125	10.1	7.4	11.2





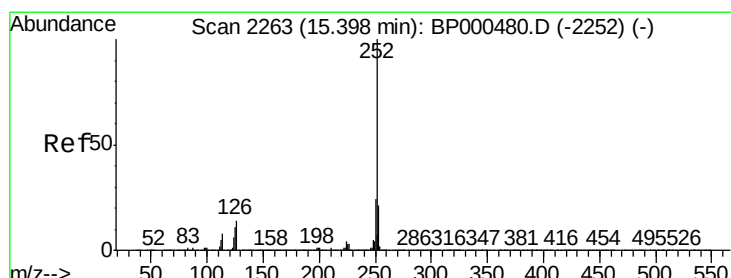
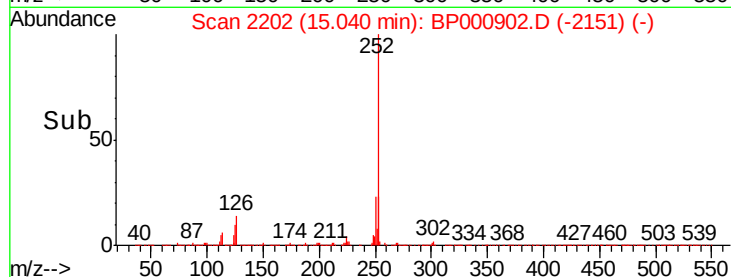
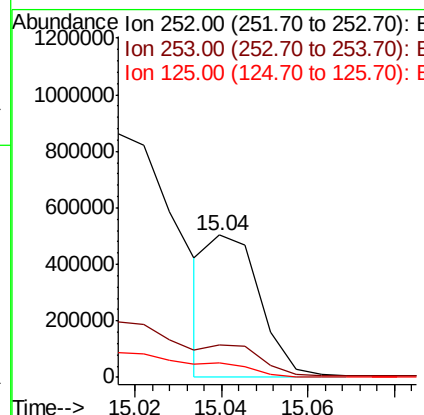
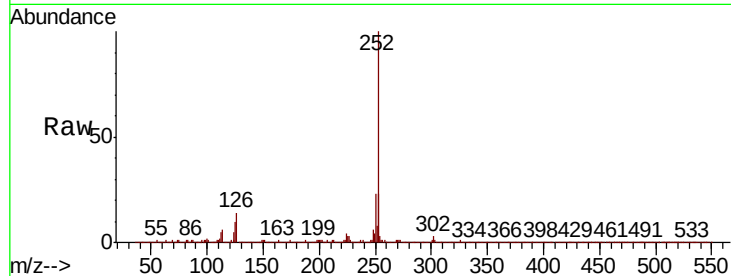
#89
Benzo(k)fluoranthene
Concen: 13.569 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.00 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleID :
3425-28

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	10.3	7.1	10.7

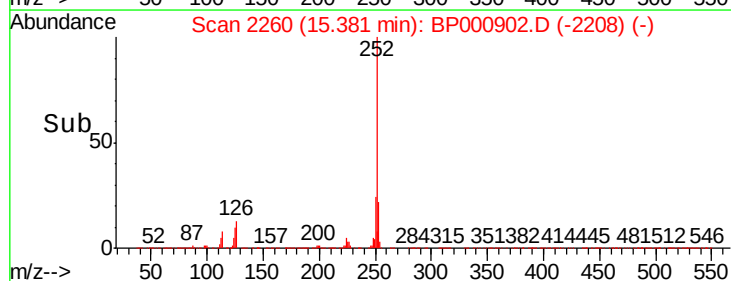
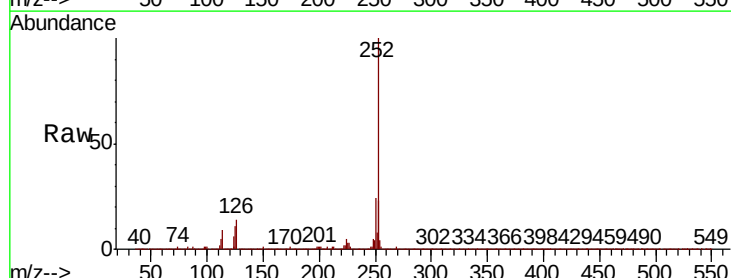
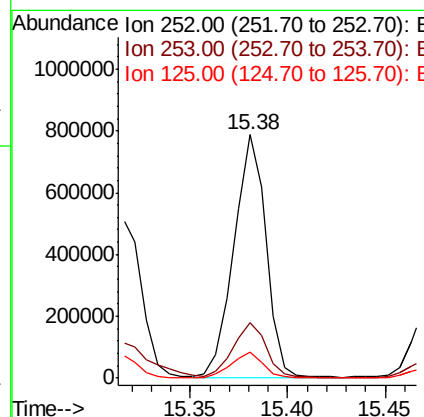
Manual Integrations
APPROVED

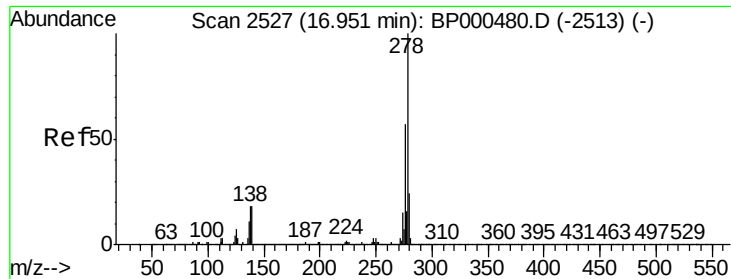
mohammad
10/22/2019 1:39:53 AM



#90
Benzo(a)pyrene
Concen: 29.964 ng
RT: 15.38 min Scan# 2260
Delta R.T. 0.01 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.3	25.9
125	10.6	8.2	12.2





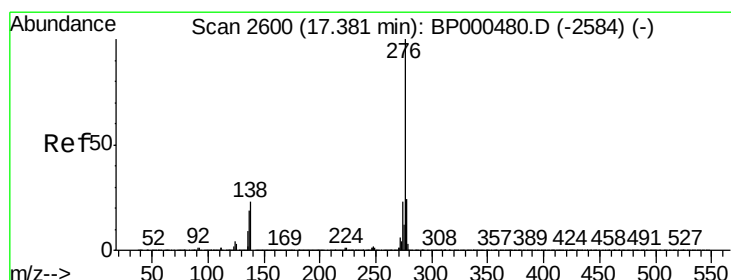
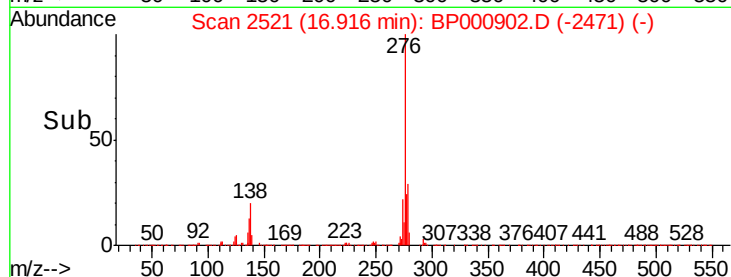
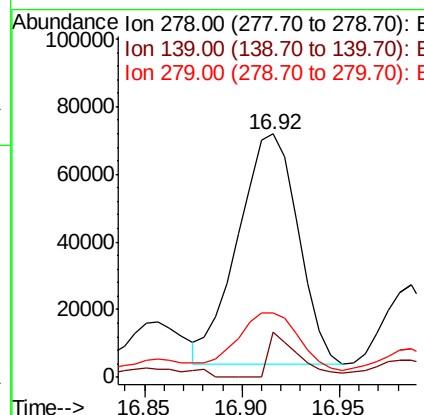
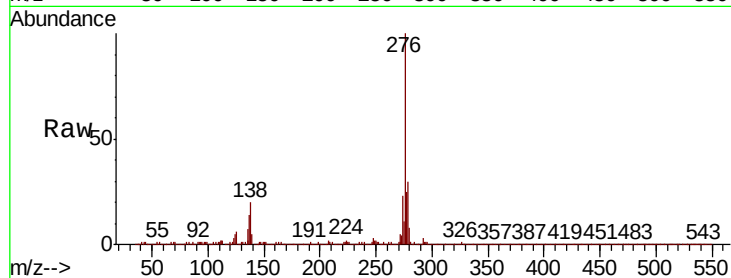
#91
Dibenzo(a,h)anthracene
Concen: 4.986 ng
RT: 16.92 min Scan# 2521
Delta R.T. -0.01 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Instrument :
BNA_P
ClientSampleId :
3425-28

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.4	12.4	18.6
279	26.5	19.1	28.7

Manual Integrations
APPROVED

mohammad
10/22/2019 1:39:53 AM



#92
Benzo(g,h,i)perylene
Concen: 15.015 ng
RT: 17.36 min Scan# 2596
Delta R.T. 0.01 min
Lab File: BP000902.D
Acq: 19 Oct 2019 01:53

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0
138	19.8	16.6	24.8

