

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
 Data File : BP003283.D
 Acq On : 14 Sep 2020 23:28
 Operator : CG/JU
 Sample : L3981-09 10X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 B19-7-9

Manual Integrations
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Quant Time: Sep 15 05:18:50 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP082420.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 01 14:37:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.64	152	181049	20.00	ng	-0.01
21) Naphthalene-d8	10.42	136	680579	20.00	ng	-0.01
39) Acenaphthene-d10	14.29	164	385293	20.00	ng	0.00
64) Phenanthrene-d10	17.04	188	694625	20.00	ng	0.00
76) Chrysene-d12	21.14	240	683845	20.00	ng	0.00
86) Perylene-d12	23.37	264	832292	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	69305	6.77	ng	0.00
7) Phenol-d6	6.84	99	83974	6.54	ng	0.00
23) Nitrobenzene-d5	8.79	82	49632	5.26	ng	0.00
42) 2,4,6-Tribromophenol	15.79	330	34065	6.54	ng	0.00
45) 2-Fluorobiphenyl	12.90	172	146211	5.56	ng	-0.01
79) Terphenyl-d14	19.62	244	151837	4.89	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	10.47	128	191092	5.465	ng	99
37) 2-Methylnaphthalene	12.09	142	83121	3.323	ng	99
38) 1-Methylnaphthalene	12.32	142	81269	3.418	ng	96
49) Acenaphthylene	14.00	152	352950	9.867	ng	99
52) Acenaphthene	14.35	154	81879	3.726	ng	99
55) Dibenzofuran	14.69	168	152181	4.409	ng	97
58) Fluorene	15.34	166	189324	7.121	ng	99
71) Phenanthrene	17.09	178	2626874	69.791	ng	99
72) Anthracene	17.17	178	421290	11.695	ng	99
73) Carbazole	17.45	167	164631	4.762	ng	98
75) Fluoranthene	19.07	202	3037630	69.827	ng	98
78) Pyrene	19.42	202	3229456	72.763	ng	99
81) Benzo(a)anthracene	21.13	228	1474137	34.414	ng	97
83) Chrysene	21.17	228	1591975	38.816	ng	98
87) Indeno(1,2,3-cd)pyrene	25.66	276	1011511	16.297	ng	# 94
88) Benzo(b)fluoranthene	22.71	252	1852919m	35.819	ng	
89) Benzo(k)fluoranthene	22.75	252	672410m	13.605	ng	
90) Benzo(a)pyrene	23.28	252	1519712	31.667	ng	97
91) Dibenzo(a,h)anthracene	25.65	278	270936m	5.314	ng	
92) Benzo(a,h,i)perylene	26.35	276	1022425	19.981	ng	96

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

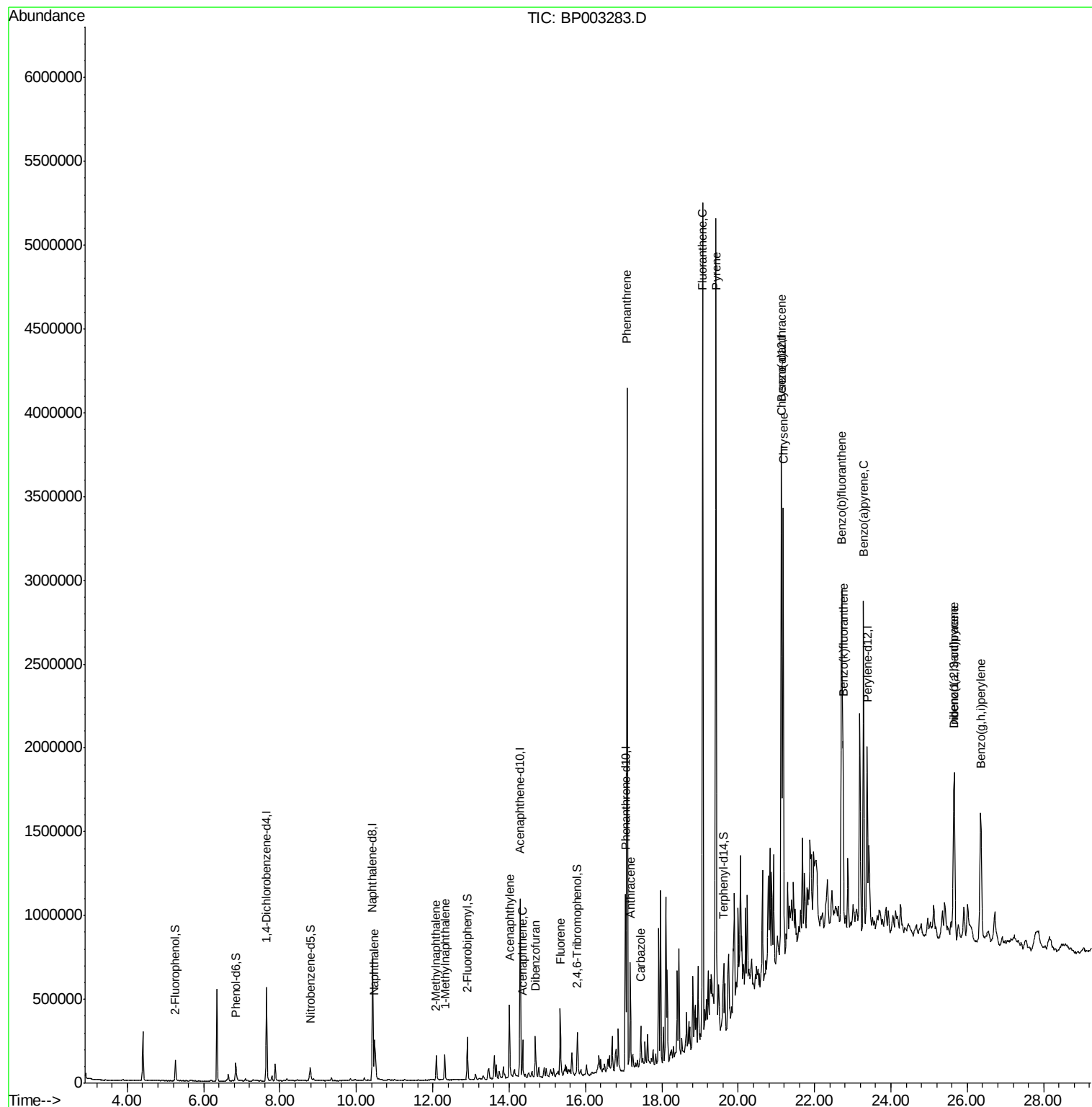
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003283.D
Acq On : 14 Sep 2020 23:28
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Sample : L3981-09 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

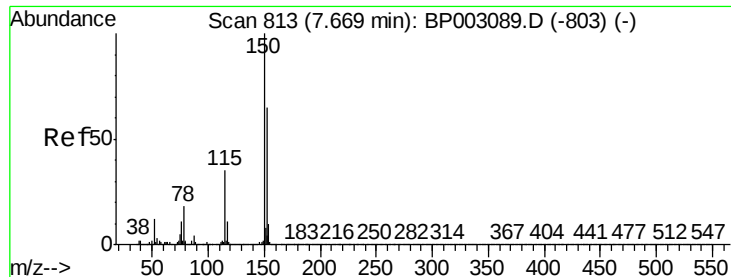
Instrument :
BNA_P
ClientSampleId :
B19-7-9

Quant Time: Sep 15 05:18:50 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 01 14:37:05 2020
Response via : Initial Calibration

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#1

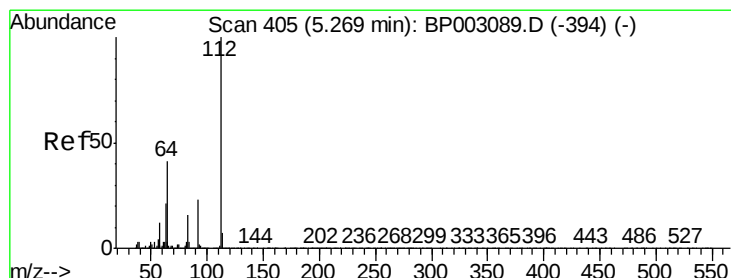
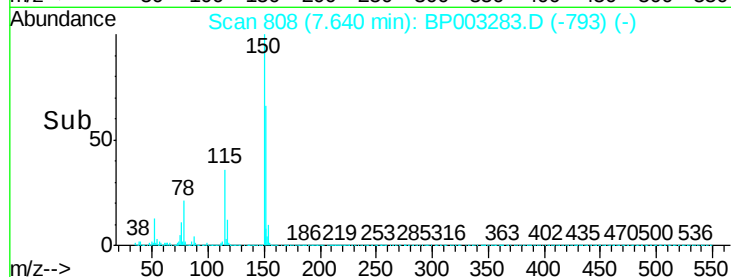
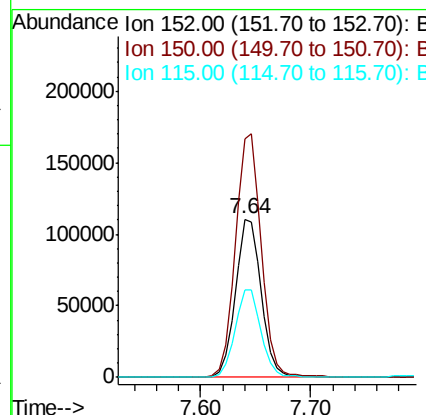
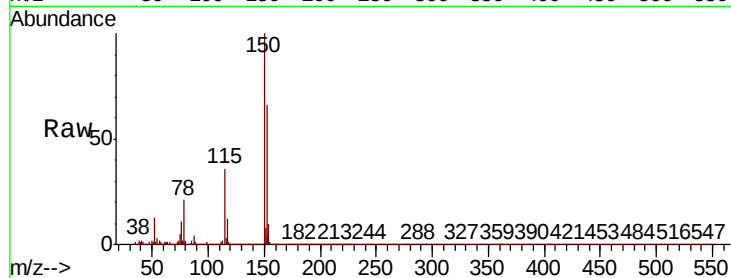
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.64 min Scan# 808
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Instrument :
BNA_P
ClientSampleId :
B19-7-9

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.3	123.8	185.6
115	55.0	43.8	65.6

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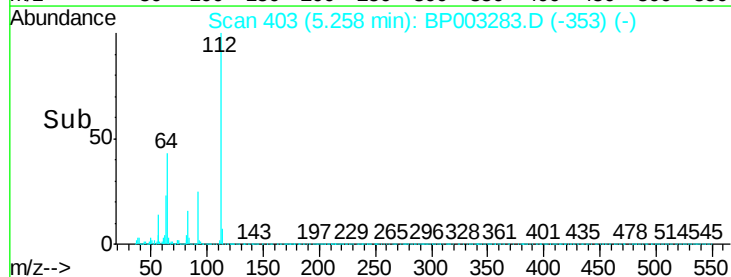
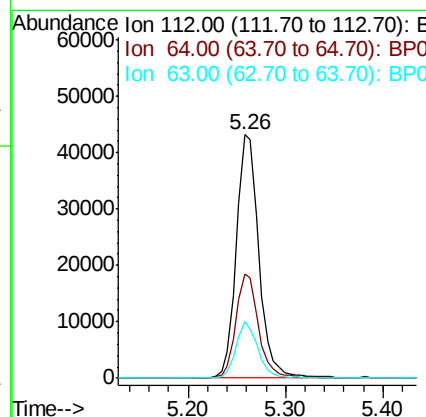
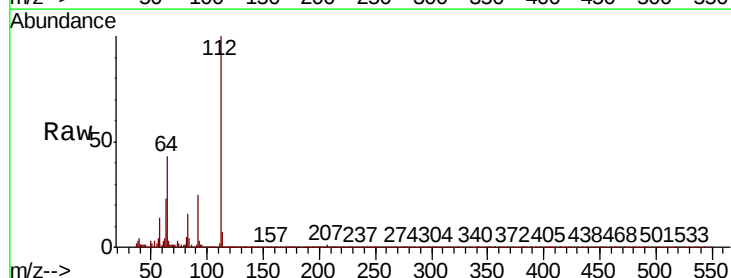
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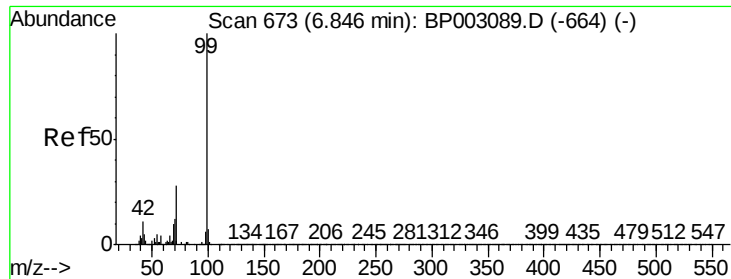


#5

2-Fluorophenol
Concen: 6.768 ng
RT: 5.26 min Scan# 403
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Tgt Ion	Ratio	Lower	Upper
112	100		
64	42.8	32.8	49.2
63	23.2	17.0	25.4





#7

Phenol-d6

Concen: 6.542 ng

RT: 6.84 min Scan# 672

Delta R.T. 0.01 min

Lab File: BP003283.D

Acq: 14 Sep 2020 23:28

Instrument :

BNA_P

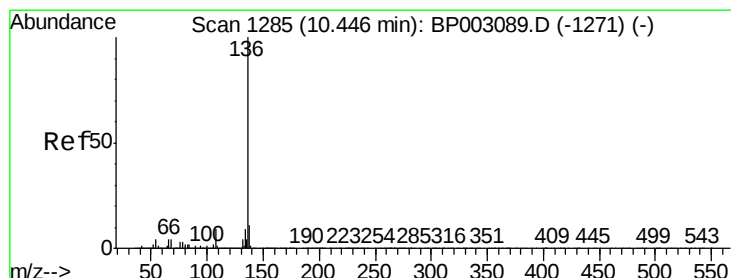
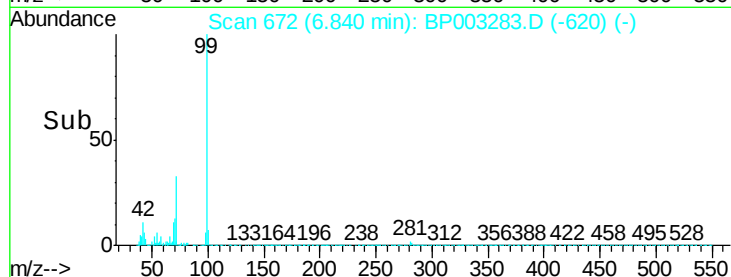
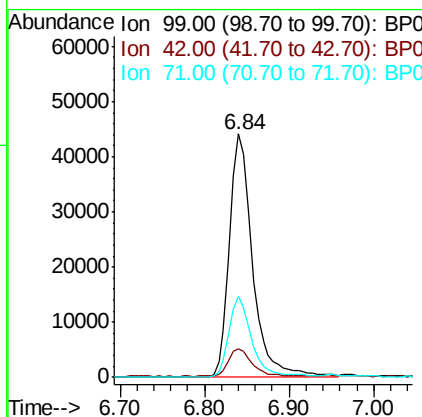
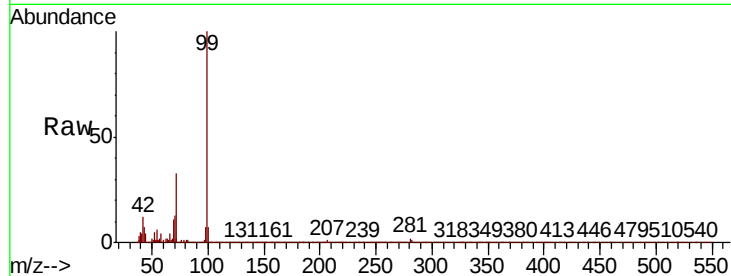
ClientSampleId :

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Tot Ion:	99	Resp:	83974
Ion Ratio	Lower	Upper	
99	100		
42	11.6	8.6	13.0
71	33.1	23.4	35.2

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#21

Naphthalene-d8

Concen: 20.000 ng

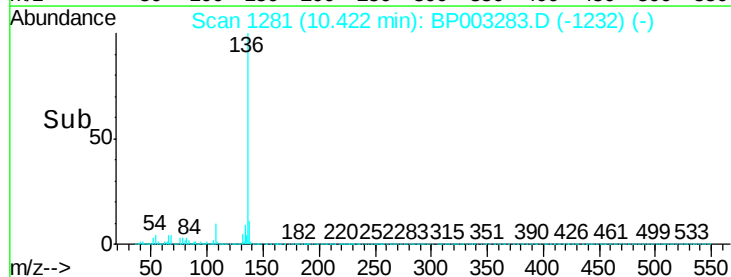
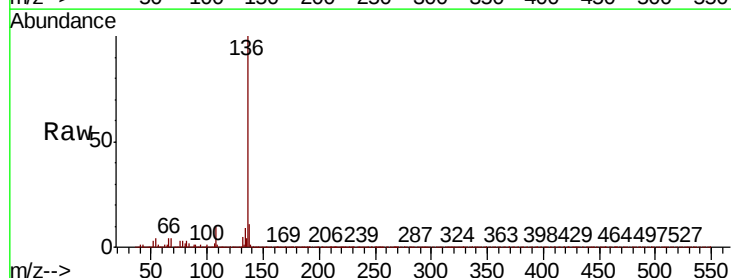
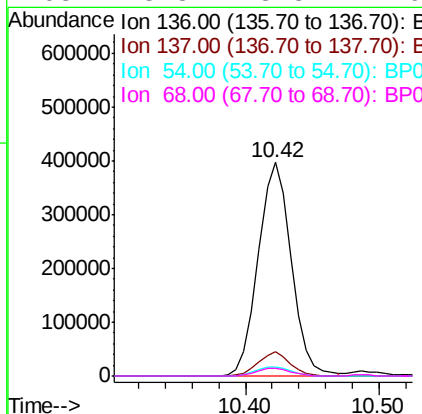
RT: 10.42 min Scan# 1281

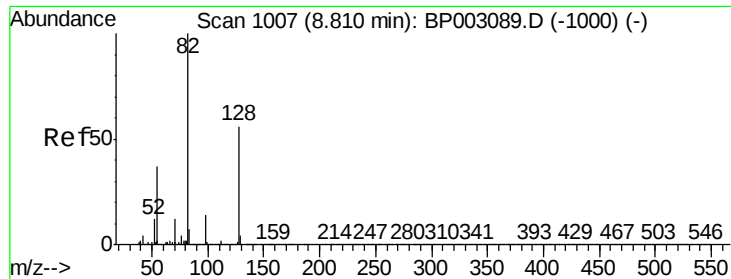
Delta R.T. -0.01 min

Lab File: BP003283.D

Acq: 14 Sep 2020 23:28

Tgt Ion:	136	Resp:	680579
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.6	13.0
54	4.3	3.6	5.4
68	3.8	3.3	4.9





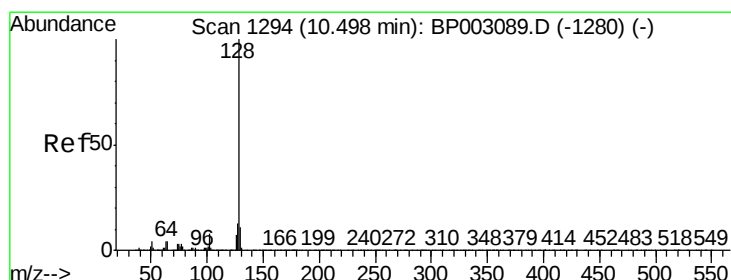
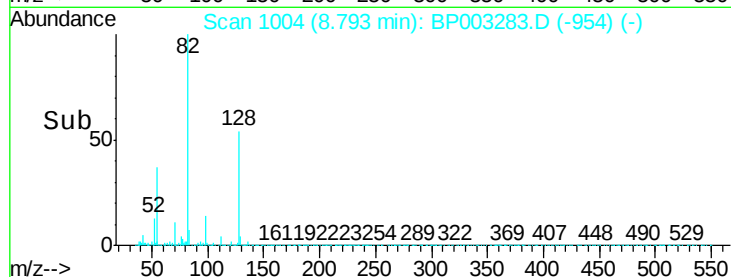
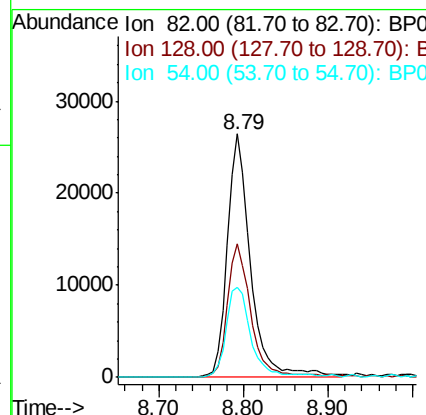
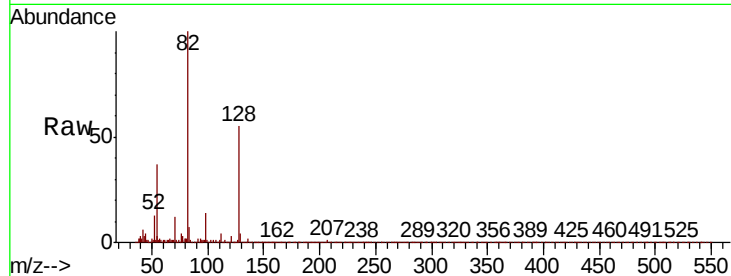
#23
Nitrobenzene-d5
Concen: 5.257 ng
RT: 8.79 min Scan# 1004
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Instrument :
BNA_P
ClientSampleId :
B19-7-9

Tot Ion	82	Resp	49632
Ion Ratio	Lower	Upper	
82	100		
128	54.6	45.6	68.4
54	37.2	30.1	45.1

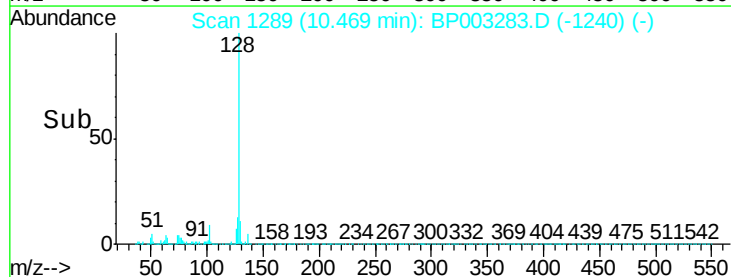
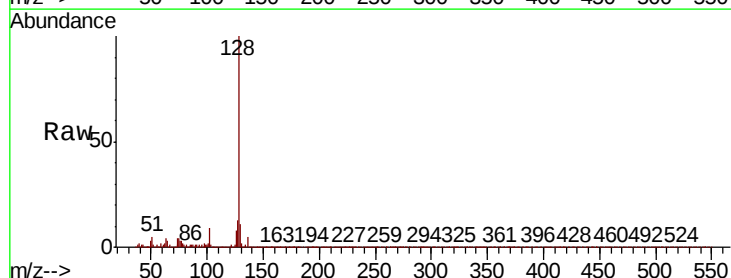
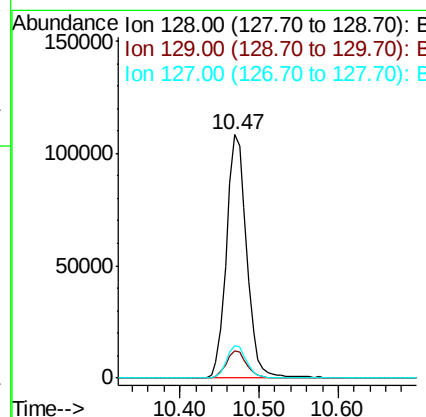
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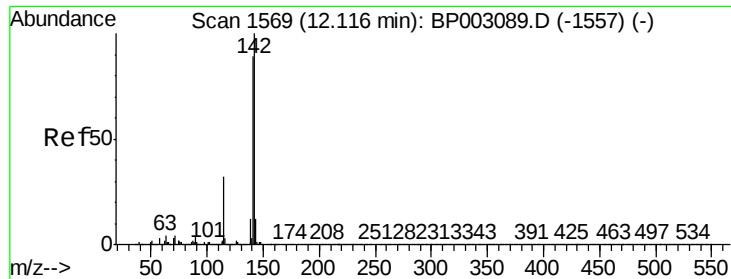
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#31
Naphthalene
Concen: 5.465 ng
RT: 10.47 min Scan# 1289
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Tgt Ion	128	Resp	191092
Ion Ratio	Lower	Upper	
128	100		
129	11.5	8.8	13.2
127	13.4	10.6	15.8





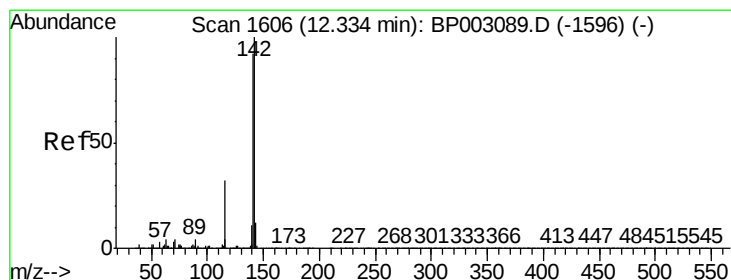
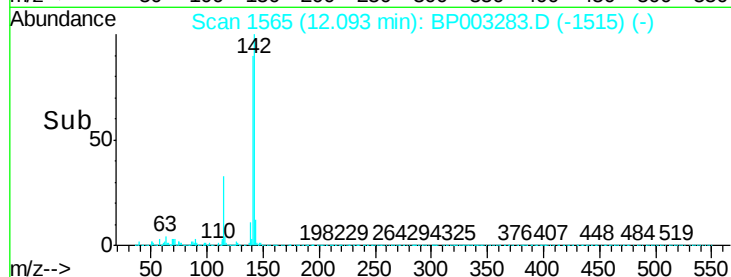
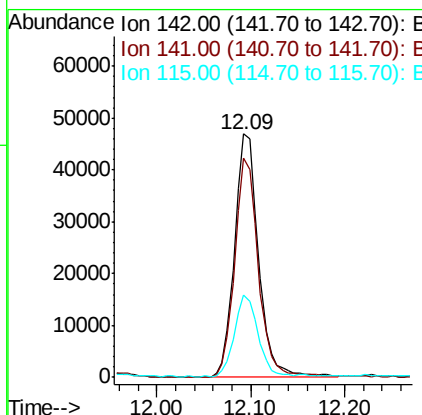
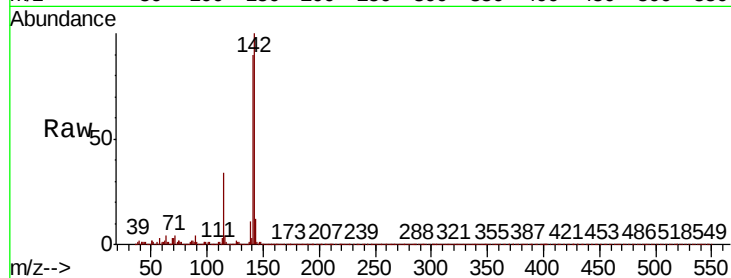
#37
2-Methylnaphthalene
Concen: 3.323 ng
RT: 12.09 min Scan# 1565
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Instrument :
BNA_P
ClientSampleId :
B19-7-9

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.4	107.2
115	33.8	25.8	38.6

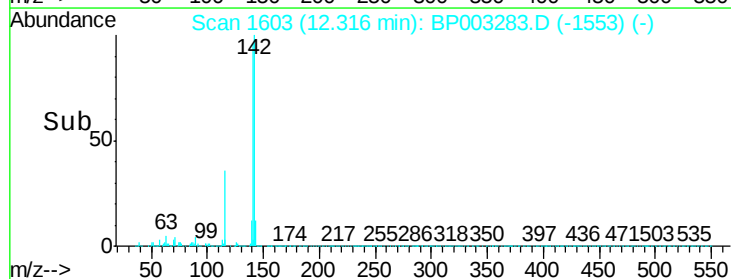
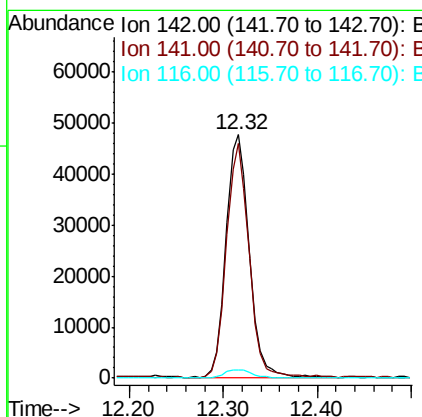
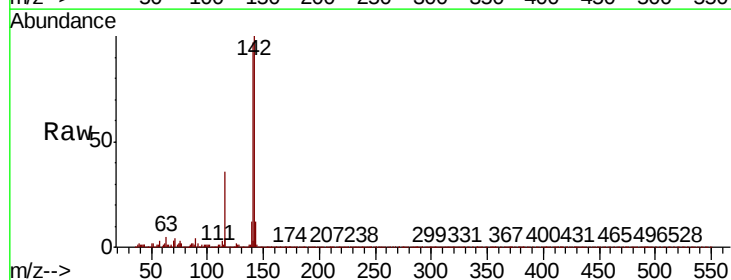
Manual Integrations
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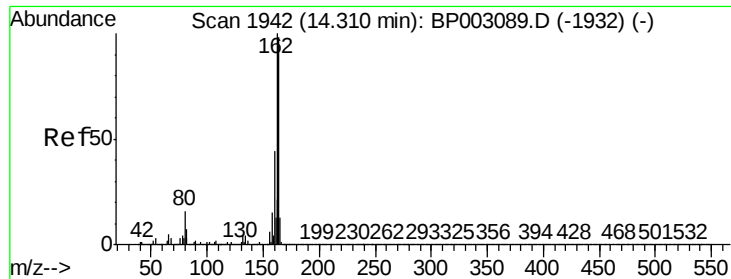
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#38
1-Methylnaphthalene
Concen: 3.418 ng
RT: 12.32 min Scan# 1603
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Tgt Ion	Ratio	Lower	Upper
142	100		
141	96.6	74.4	111.6
116	3.6	2.9	4.3





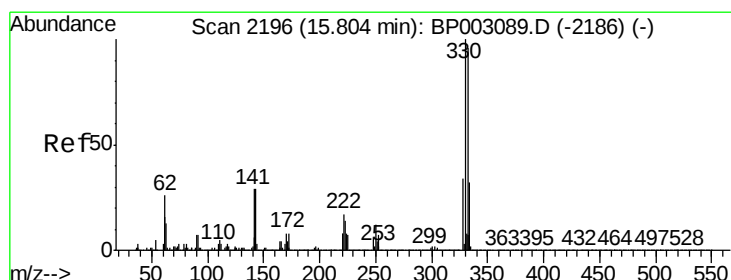
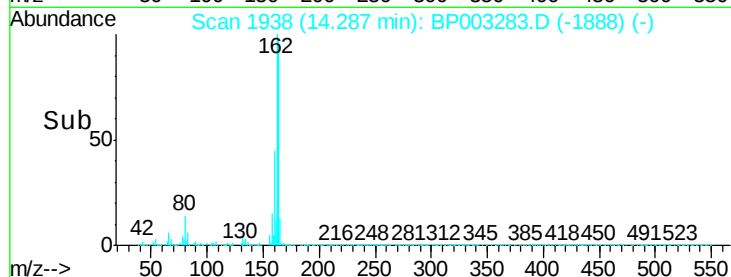
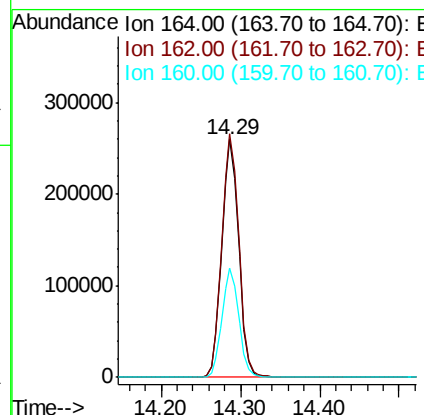
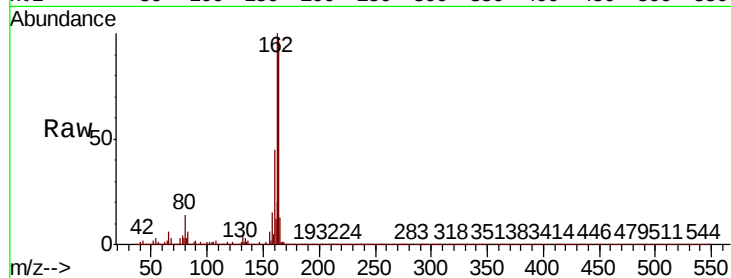
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.29 min Scan# 1938
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Instrument :
BNA_P
ClientSampleId :
B19-7-9

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.3	79.4	119.2	
160	46.0	36.1	54.1	

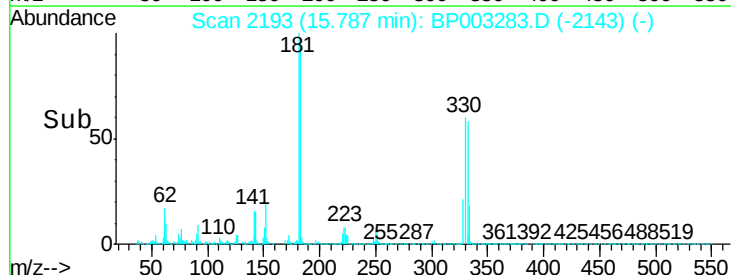
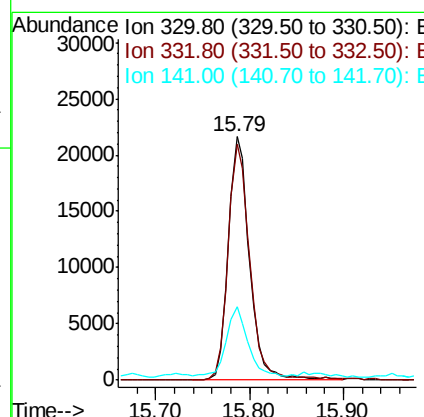
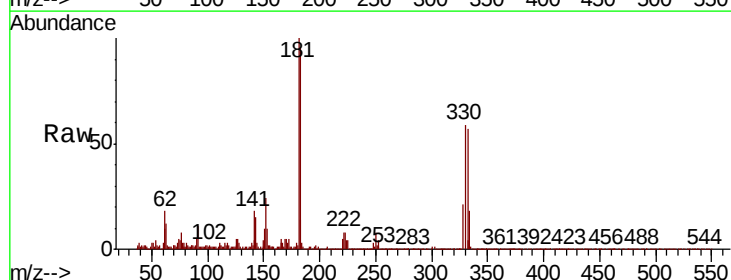
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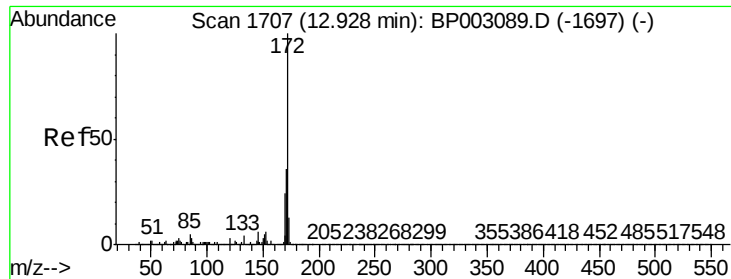
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#42
2,4,6-Tribromophenol
Concen: 6.537 ng
RT: 15.79 min Scan# 2193
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.0	77.1	115.7	
141	28.9	23.4	35.2	





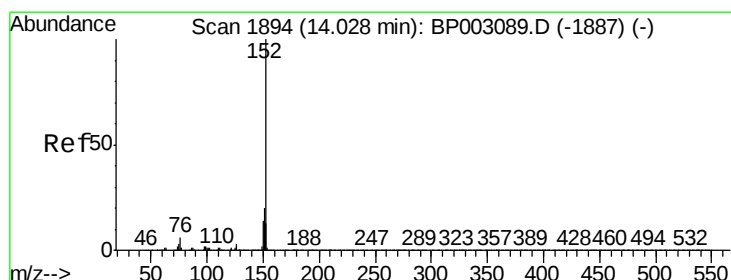
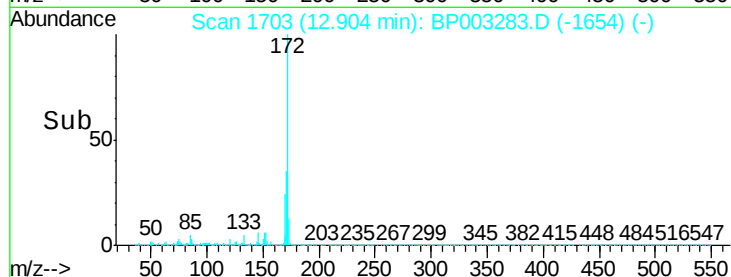
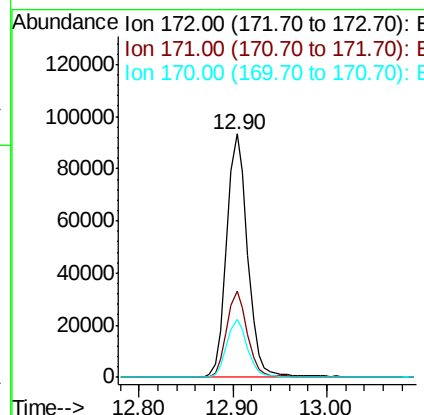
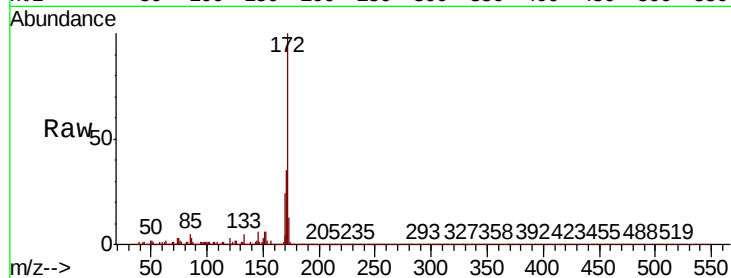
#45
2-Fluorobiphenyl
Concen: 5.557 ng
RT: 12.90 min Scan# 1703
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Instrument :
BNA_P
ClientSampleId :
B19-7-9

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.5	42.7
170	24.0	19.2	28.8

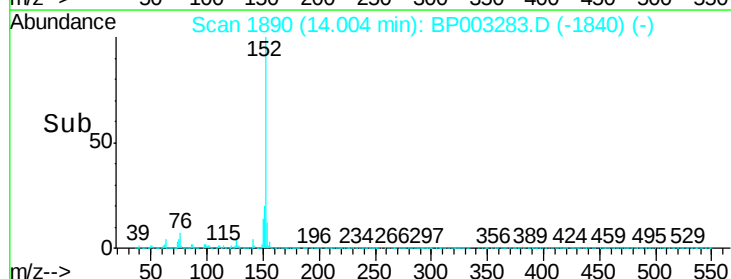
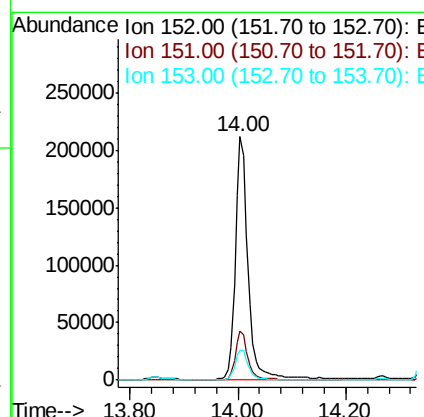
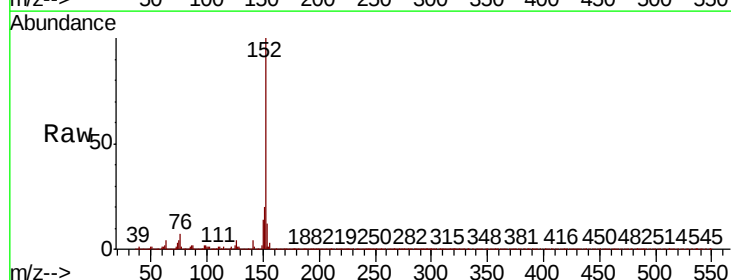
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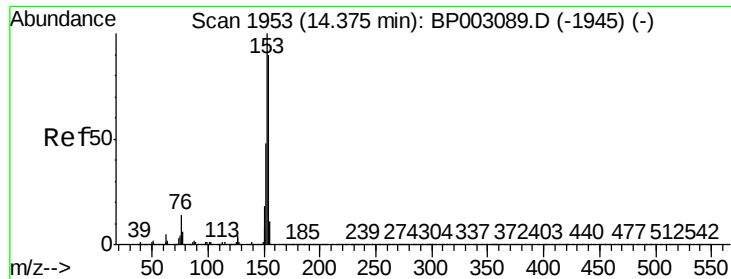
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#49
Acenaphthylene
Concen: 9.867 ng
RT: 14.00 min Scan# 1890
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.9	23.9
153	12.4	10.5	15.7





#52

Acenaphthene

Concen: 3.726 ng

RT: 14.35 min Scan# 1949

Delta R.T. -0.01 min

Lab File: BP003283.D

Acq: 14 Sep 2020 23:28

Instrument :

BNA_P

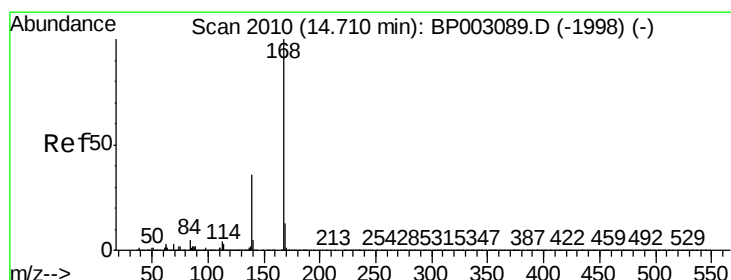
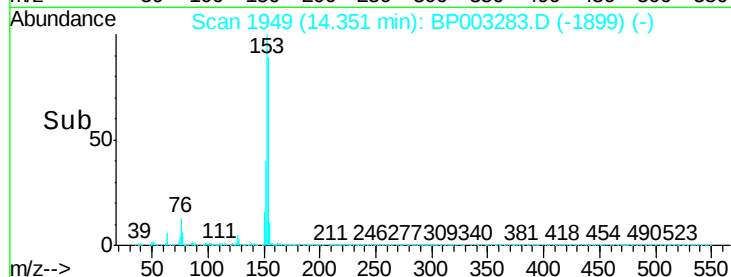
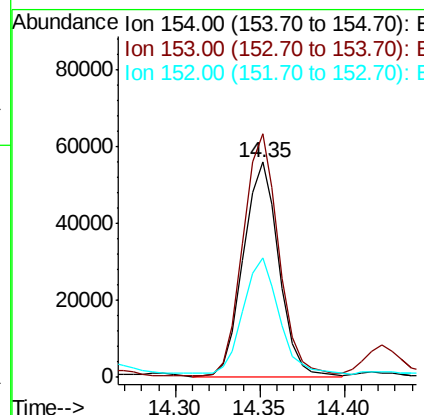
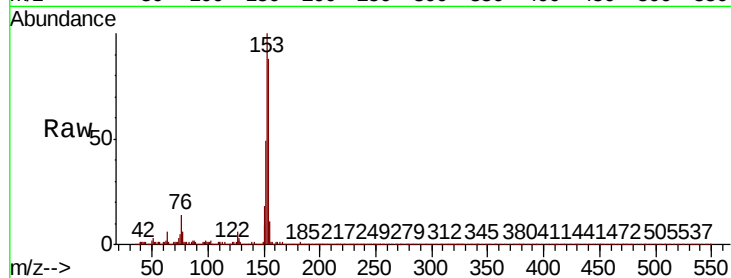
ClientSampleId :

B19-7-9

Tot Ion:	154	Resp:	81879
Ion Ratio	Lower	Upper	
154	100		
153	113.1	91.0	136.6
152	55.4	43.0	64.6

Manual Integrations
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#55

Dibenzofuran

Concen: 4.409 ng

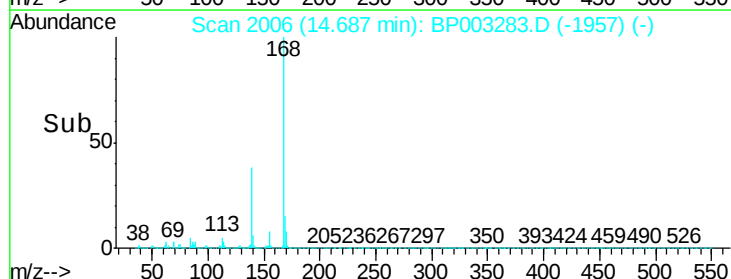
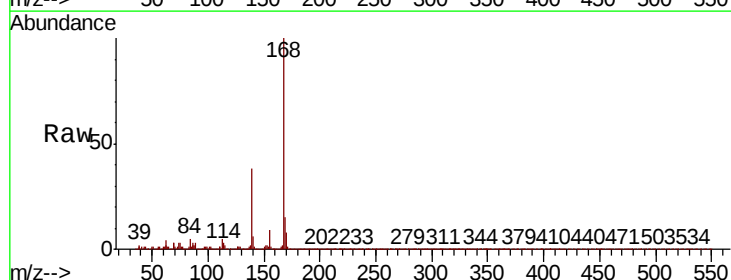
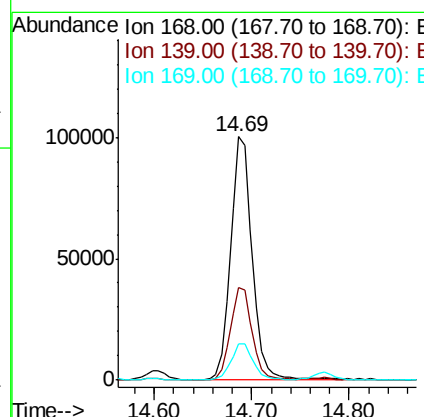
RT: 14.69 min Scan# 2006

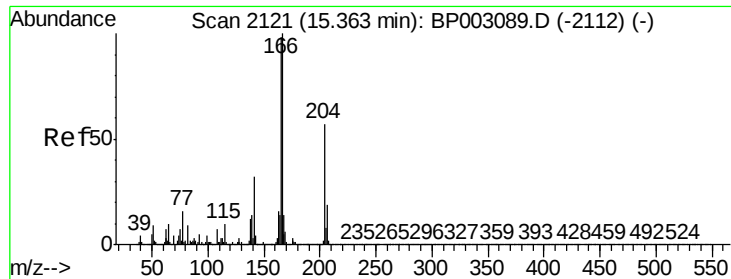
Delta R.T. -0.01 min

Lab File: BP003283.D

Acq: 14 Sep 2020 23:28

Tgt Ion:	168	Resp:	152181
Ion Ratio	Lower	Upper	
168	100		
139	37.8	29.1	43.7
169	14.7	10.4	15.6





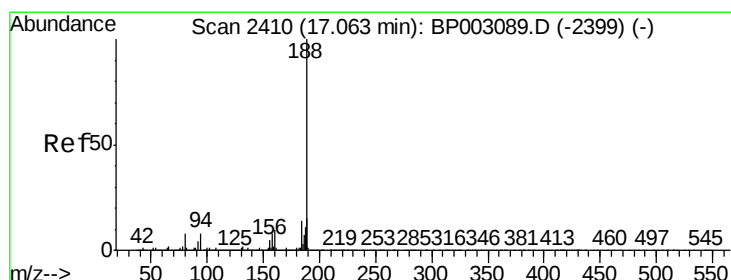
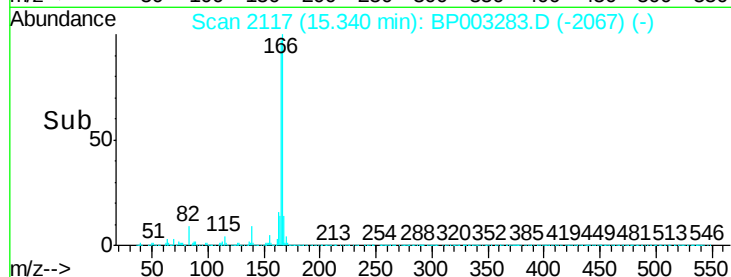
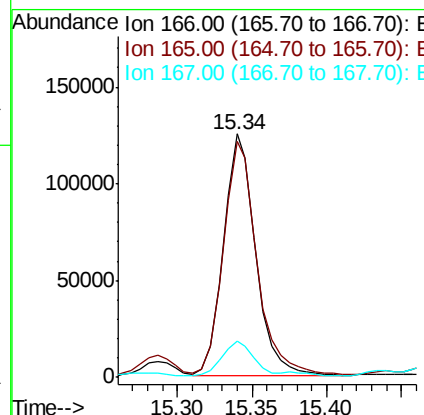
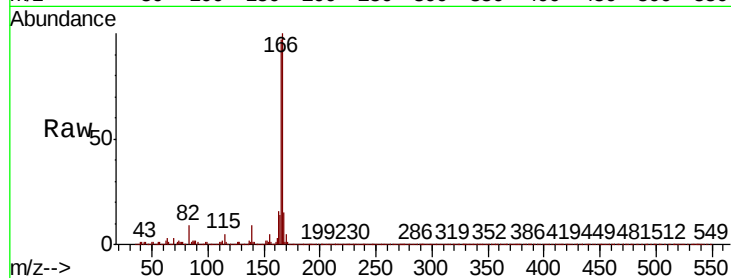
#58
Fluorene
 Concen: 7.121 ng
 RT: 15.34 min Scan# 2117
 Delta R.T. -0.01 min
 Lab File: BP003283.D
 Acq: 14 Sep 2020 23:28

Instrument :
 BNA_P
 ClientSampleId :
 B19-7-9

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.0	77.8	116.8
167	14.7	11.0	16.4

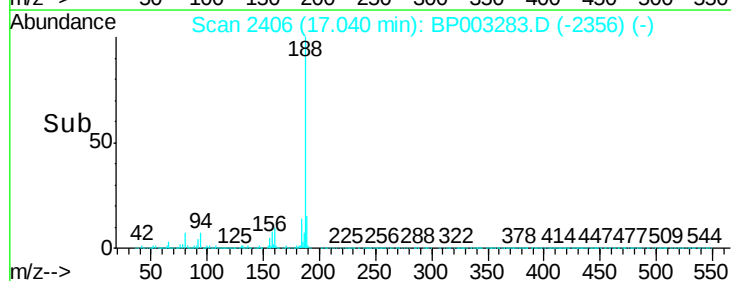
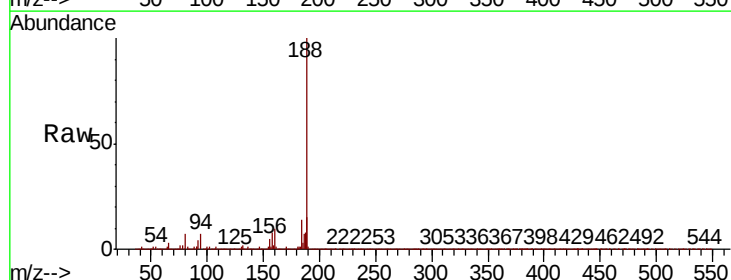
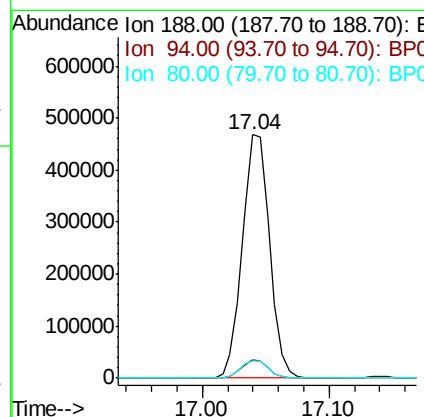
Manual Integrations
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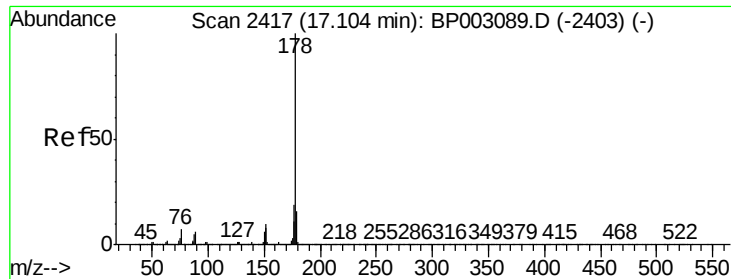
mohammad
 9/15/2020 1:22:14 PM



#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.04 min Scan# 2406
 Delta R.T. -0.01 min
 Lab File: BP003283.D
 Acq: 14 Sep 2020 23:28

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.2	9.2
80	7.3	6.2	9.2





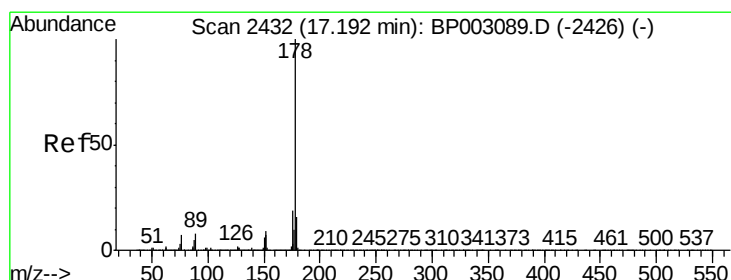
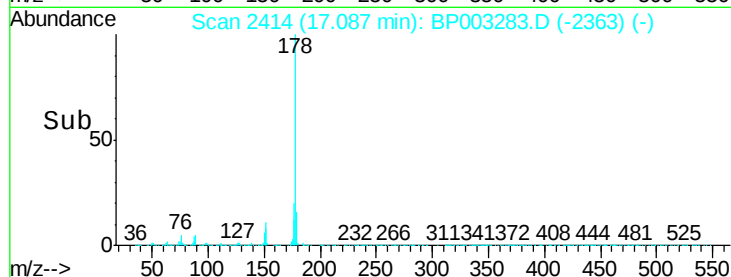
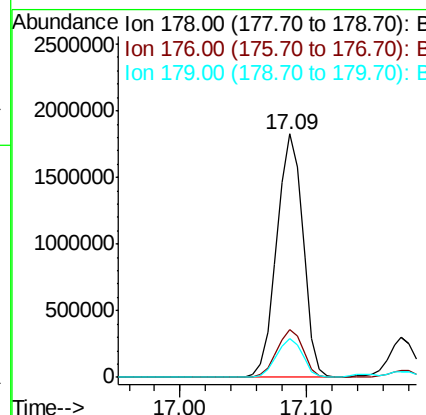
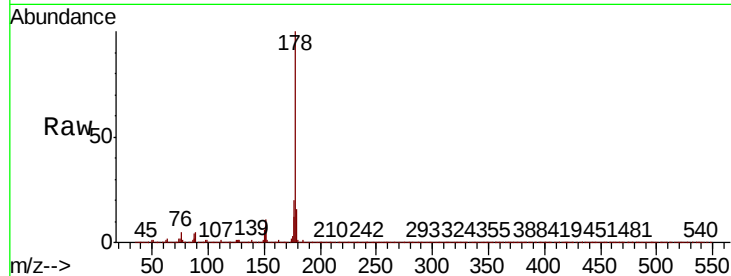
#71
Phenanthrene
Concen: 69.791 ng
RT: 17.09 min Scan# 2414
Delta R.T. 0.00 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Instrument :
BNA_P
ClientSampled :
B19-7-9

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.3	22.9
179	15.8	12.5	18.7

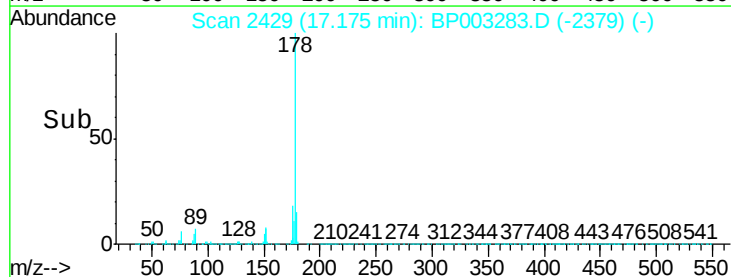
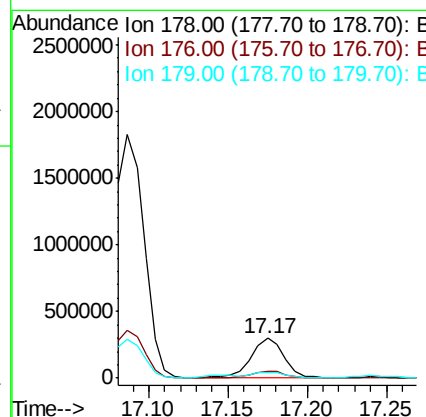
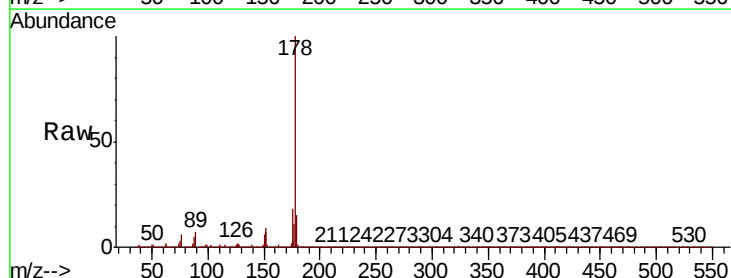
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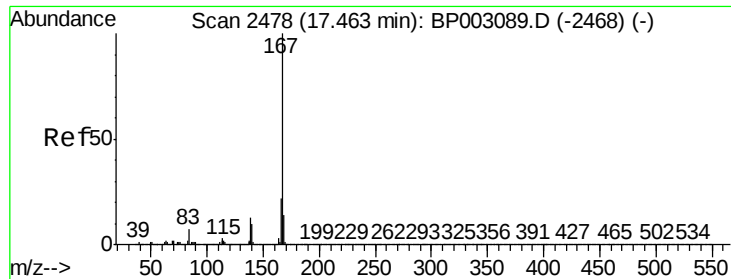
mohammad
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#72
Anthracene
Concen: 11.695 ng
RT: 17.17 min Scan# 2429
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	15.4	12.5	18.7





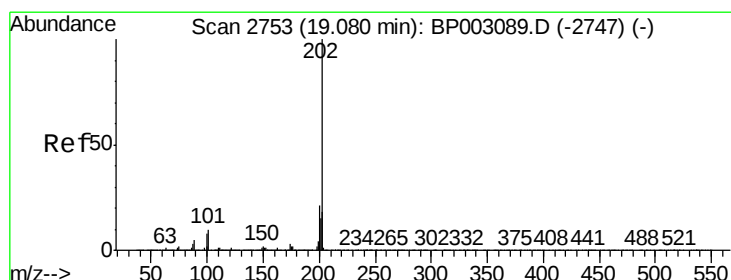
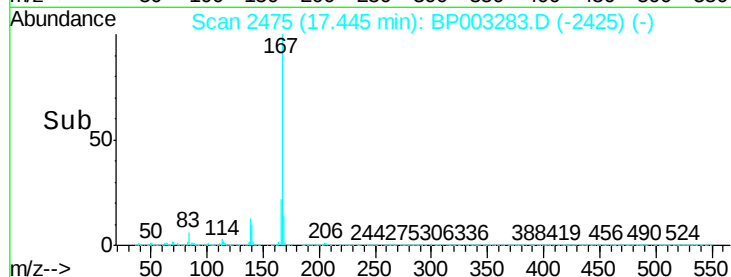
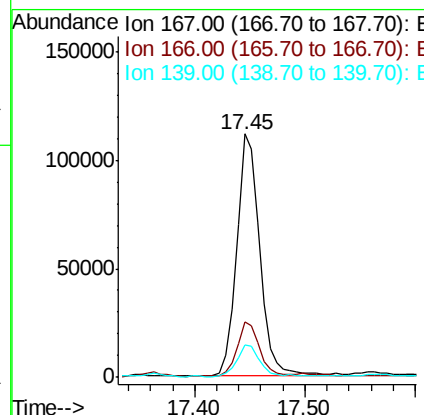
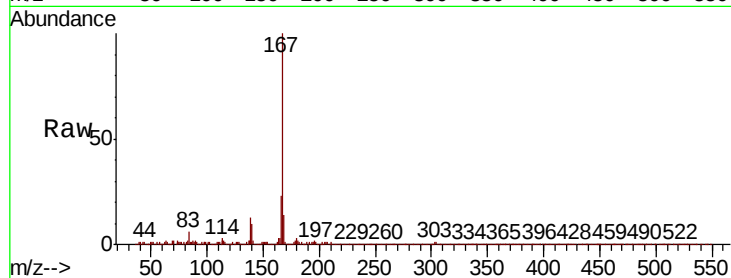
#73
 Carbazole
 Concen: 4.762 ng
 RT: 17.45 min Scan# 2475
 Delta R.T. -0.01 min
 Lab File: BP003283.D
 Acq: 14 Sep 2020 23:28

Instrument :
 BNA_P
 ClientSampled :
 B19-7-9

Tot Ion:	167	Resp:	164631
Ion Ratio	Lower	Upper	
167	100		
166	22.9	17.6	26.4
139	13.4	10.2	15.4

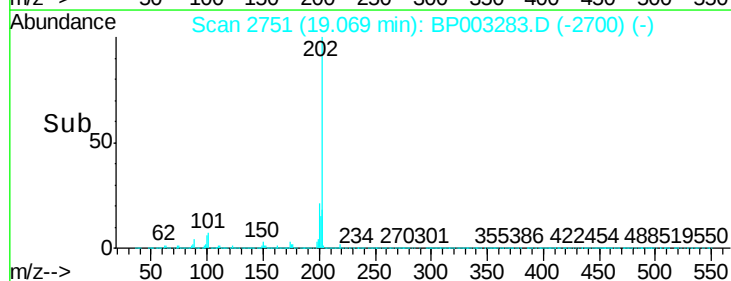
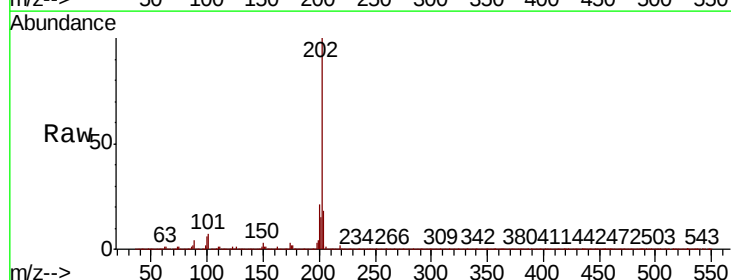
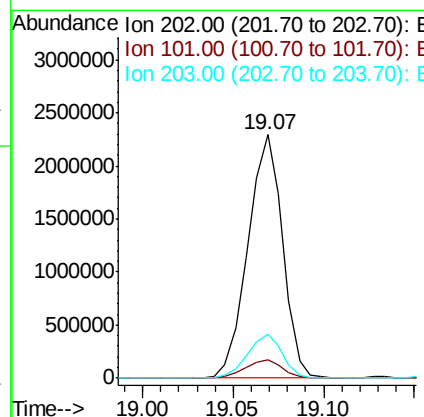
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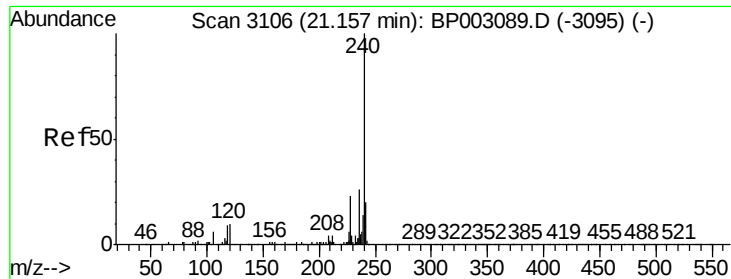
mohammad
 9/15/2020 1:22:14 PM



#75
 Fluoranthene
 Concen: 69.827 ng
 RT: 19.07 min Scan# 2751
 Delta R.T. 0.00 min
 Lab File: BP003283.D
 Acq: 14 Sep 2020 23:28

Tgt Ion:	202	Resp:	3037630
Ion Ratio	Lower	Upper	
202	100		
101	7.4	0.0	29.4
203	17.9	0.0	37.8





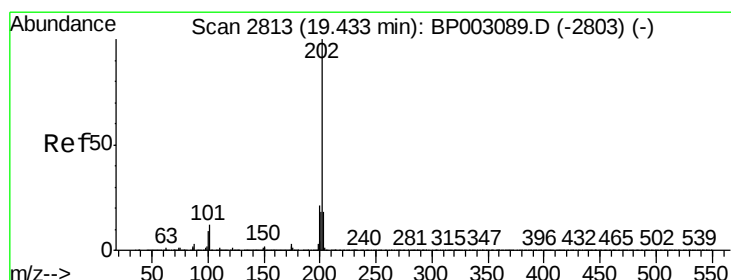
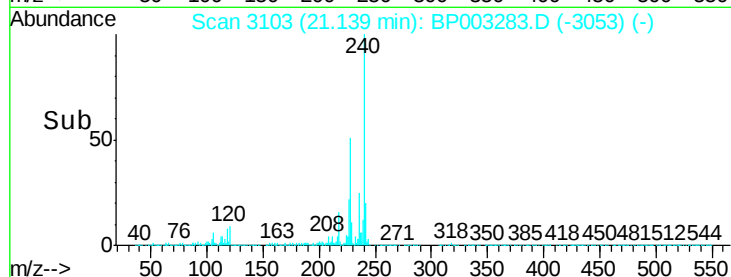
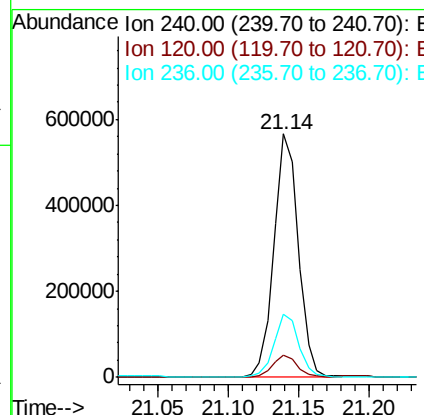
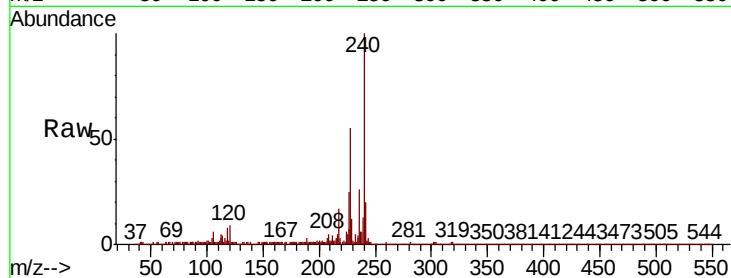
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.14 min Scan# 3103
 Delta R.T. -0.01 min
 Lab File: BP003283.D
 Acq: 14 Sep 2020 23:28

Instrument :
 BNA_P
 ClientSampleId :
 B19-7-9

Tot Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	8.9	7.8	11.6
236	25.7	20.8	31.2

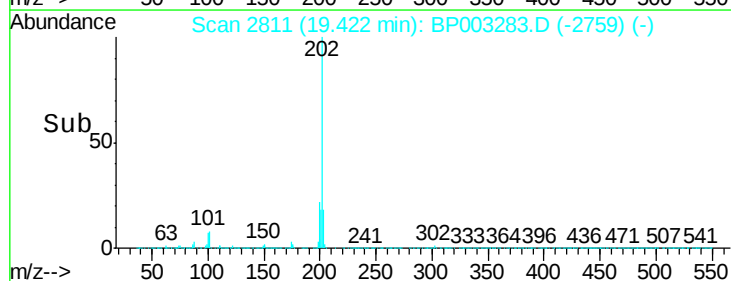
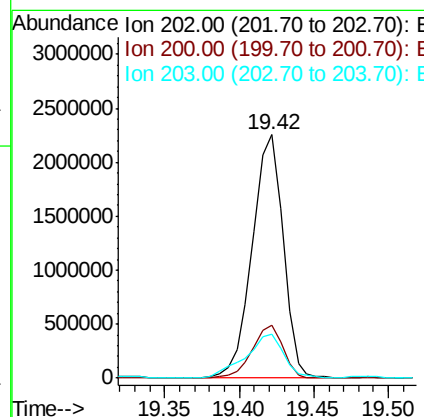
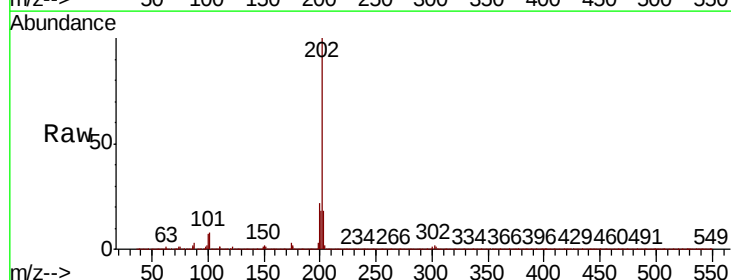
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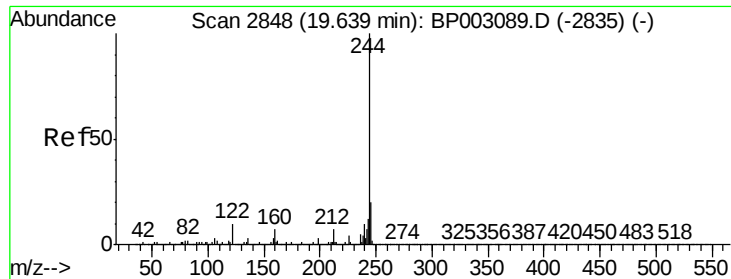
mohammad
 9/15/2020 1:22:14 PM



#78
 Pyrene
 Concen: 72.763 ng
 RT: 19.42 min Scan# 2811
 Delta R.T. 0.01 min
 Lab File: BP003283.D
 Acq: 14 Sep 2020 23:28

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.6	17.1	25.7
203	18.0	14.2	21.2





#79

Terphenyl-d14

Concen: 4.886 ng

RT: 19.62 min Scan# 2844

Delta R.T. -0.01 min

Lab File: BP003283.D

Acq: 14 Sep 2020 23:28

Instrument :

BNA_P

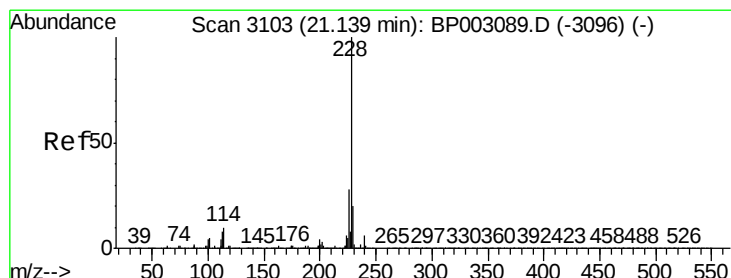
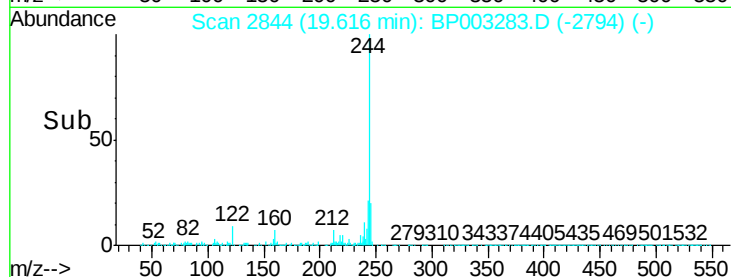
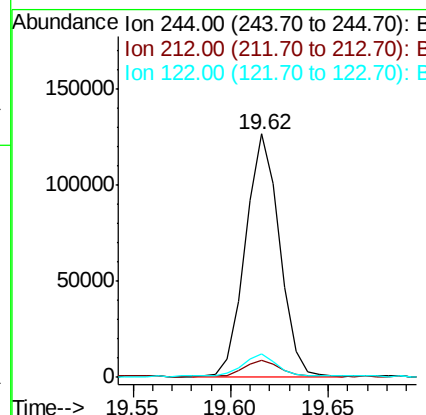
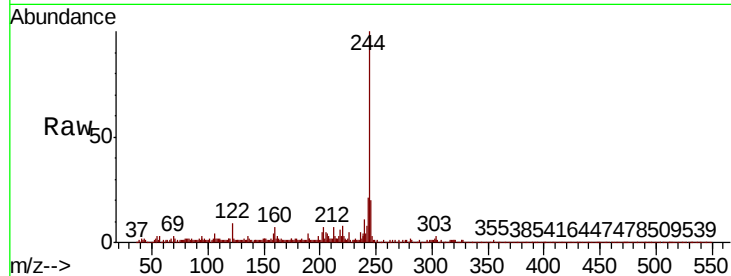
ClientSampleId :

B19-7-9

Tot Ion:	244	Resp:	151837
Ion Ratio		Lower	Upper
244	100		
212	7.1	5.8	8.6
122	9.4	7.8	11.8

Manual Integrations
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#81

Benzo(a)anthracene

Concen: 34.414 ng

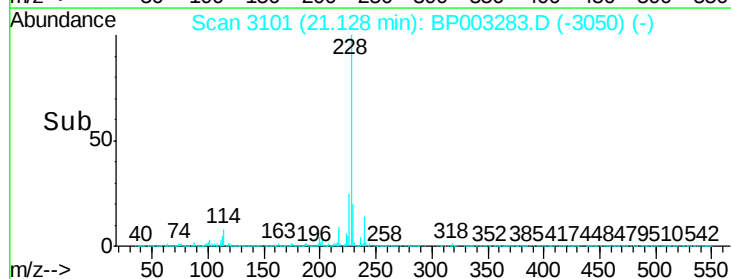
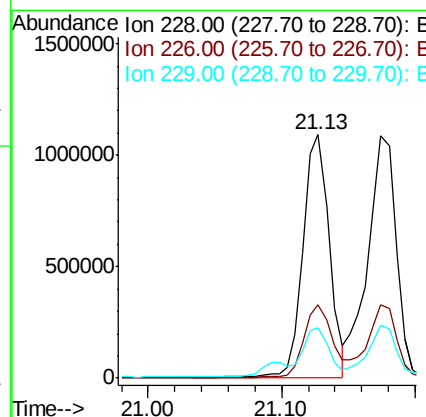
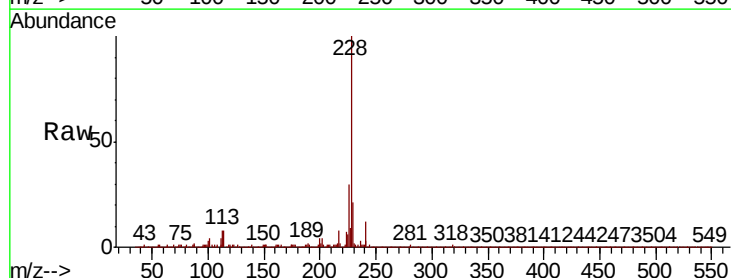
RT: 21.13 min Scan# 3101

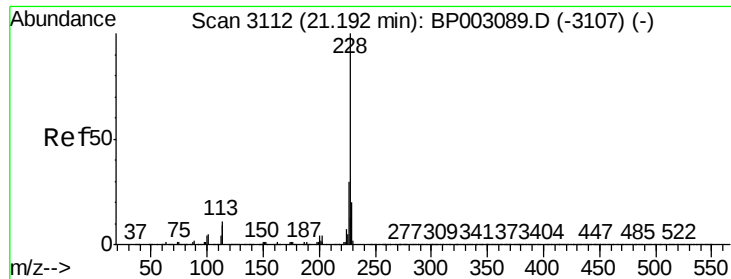
Delta R.T. 0.00 min

Lab File: BP003283.D

Acq: 14 Sep 2020 23:28

Tgt Ion:	228	Resp:	1474137
Ion Ratio		Lower	Upper
228	100		
226	30.1	22.1	33.1
229	20.7	15.9	23.9





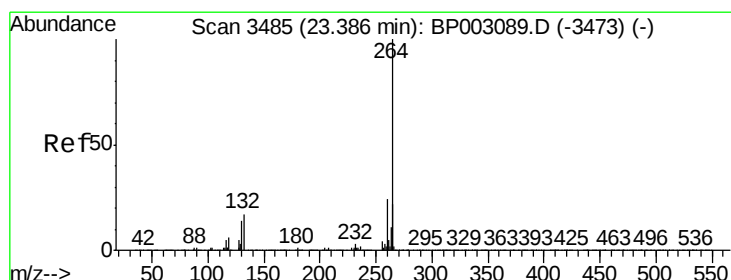
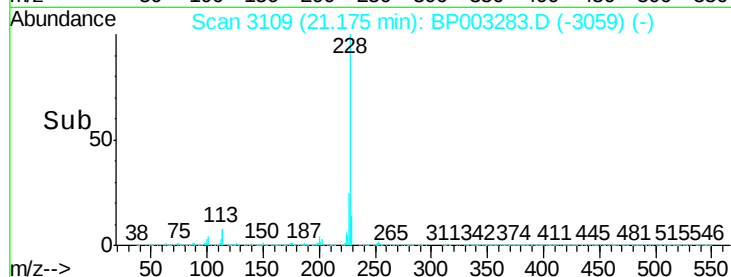
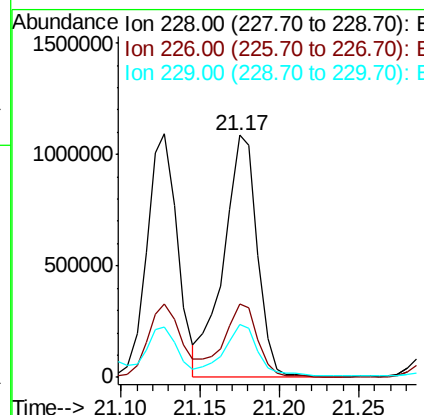
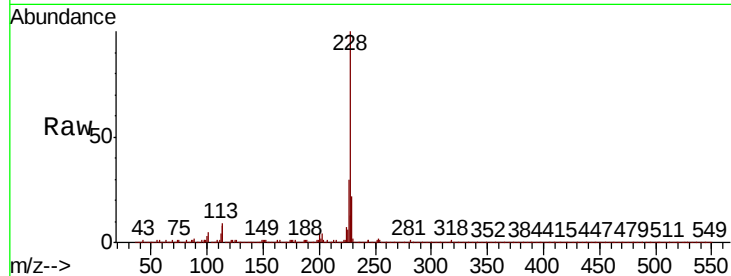
#83
Chrysene
Concen: 38.816 ng
RT: 21.17 min Scan# 3109
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Instrument :
BNA_P
ClientSampled :
B19-7-9

Tot Ion:	228	Resp:	1591975
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.4	36.6
229	21.7	15.8	23.6

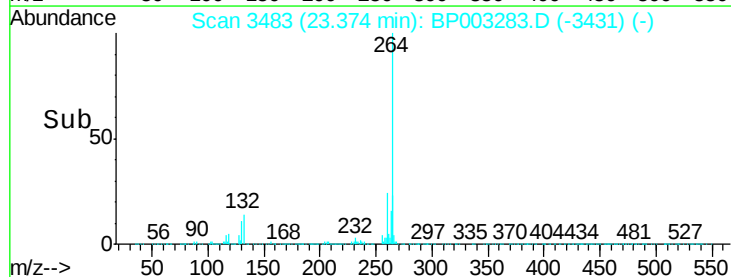
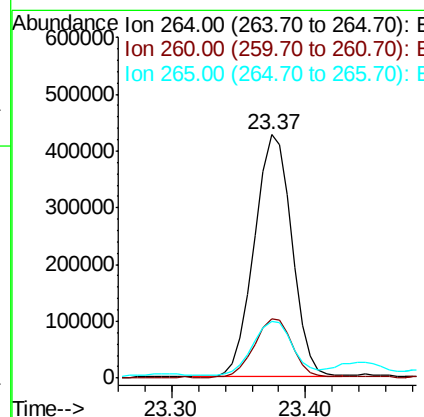
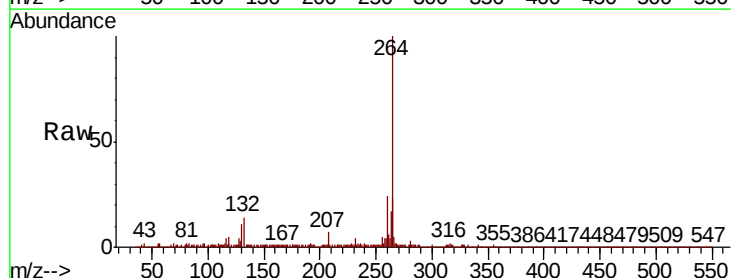
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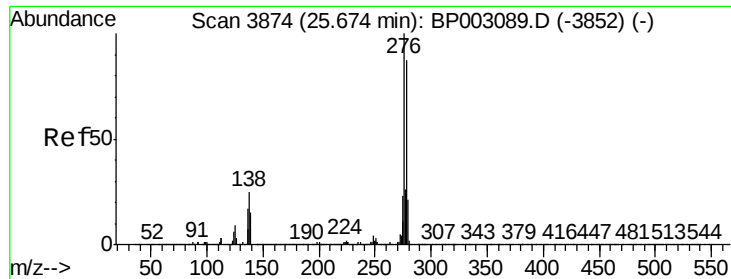
mohammad
9/15/2020 1:22:14 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.37 min Scan# 3483
Delta R.T. 0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Tgt Ion:	264	Resp:	832292
Ion	Ratio	Lower	Upper
264	100		
260	24.4	18.8	28.2
265	23.4	17.4	26.2





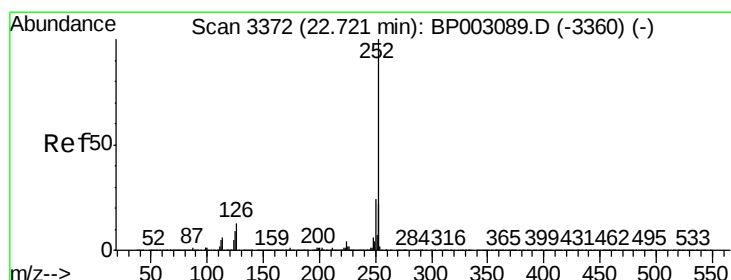
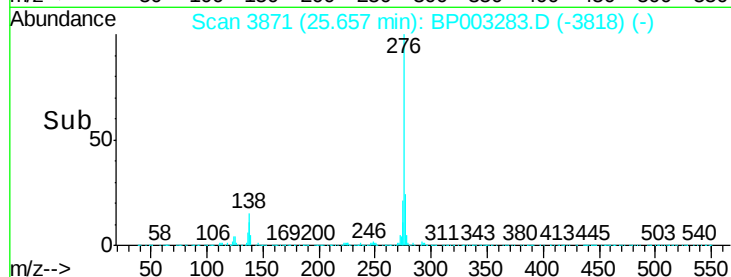
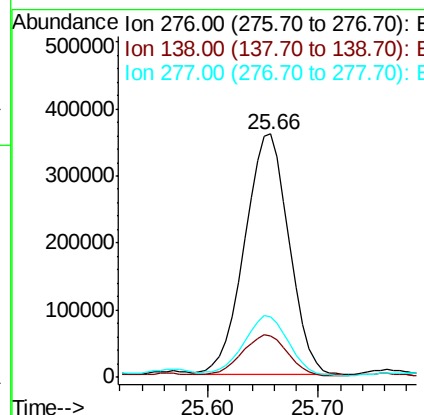
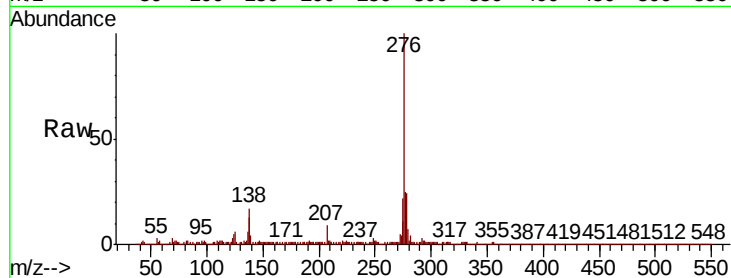
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 16.297 ng
 RT: 25.66 min Scan# 3871
 Delta R.T. 0.01 min
 Lab File: BP003283.D
 Acq: 14 Sep 2020 23:28

Instrument :
 BNA_P
 ClientSampleId :
 B19-7-9

Tot Ion	Ratio	Lower	Upper
276	100		
138	17.6	18.7	28.1#
277	25.3	20.4	30.6

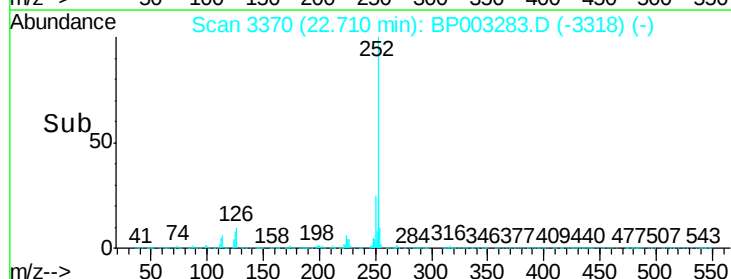
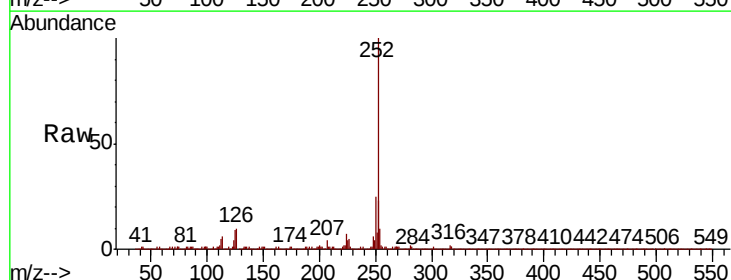
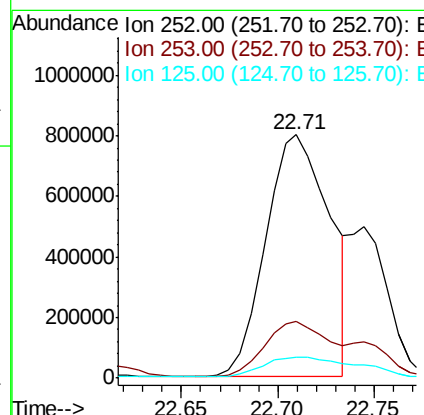
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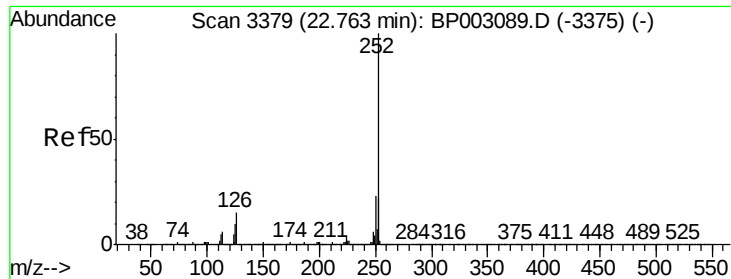
mohammad
 9/15/2020 1:22:14 PM



#88
 Benzo(b)fluoranthene
 Concen: 35.819 ng m
 RT: 22.71 min Scan# 3370
 Delta R.T. 0.01 min
 Lab File: BP003283.D
 Acq: 14 Sep 2020 23:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.6	26.4
125	8.8	7.3	10.9





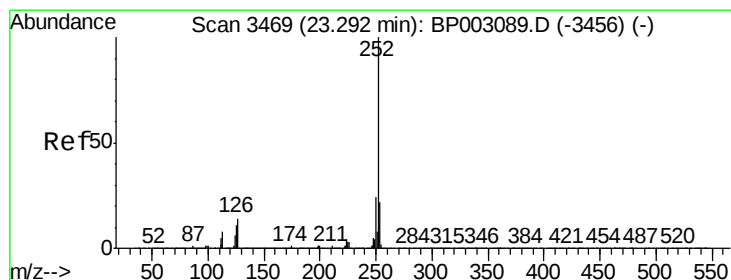
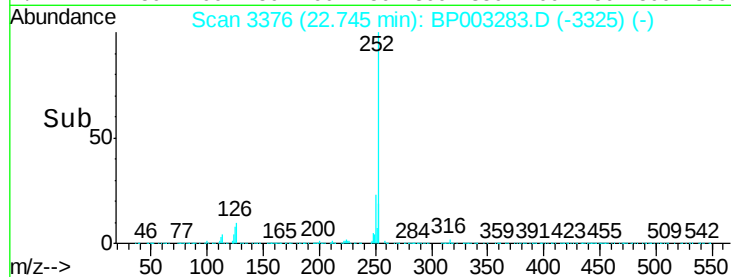
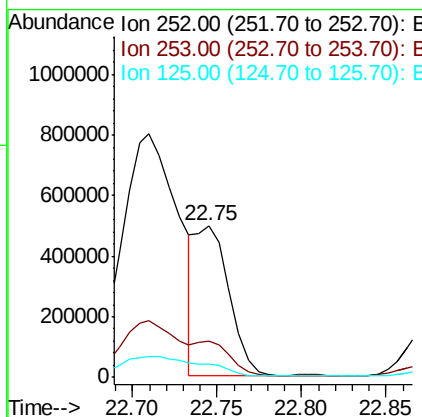
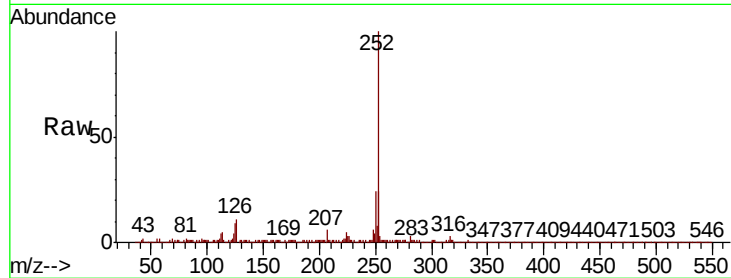
#89
Benzo(k)fluoranthene
Concen: 13.605 ng m
RT: 22.75 min Scan# 3376
Delta R.T. 0.00 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Instrument :
BNA_P
ClientSampleId :
B19-7-9

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.8
125	8.5	7.4	11.2

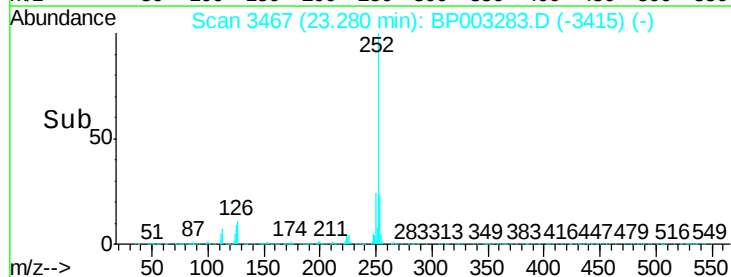
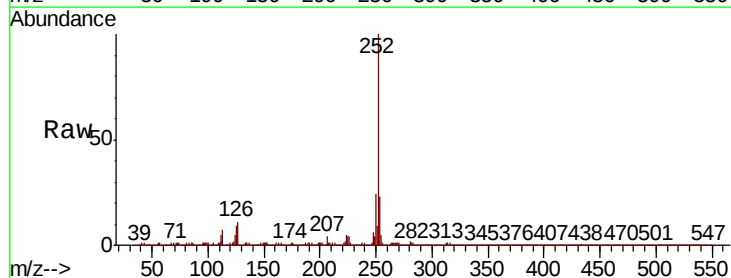
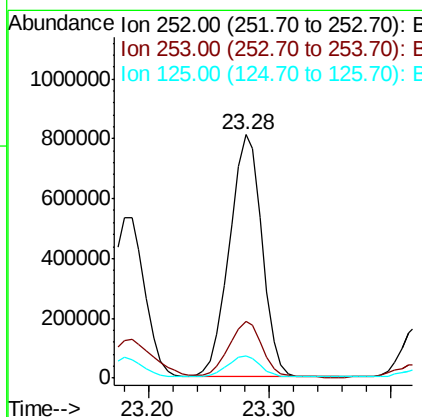
Manual Integrations
APPROVED

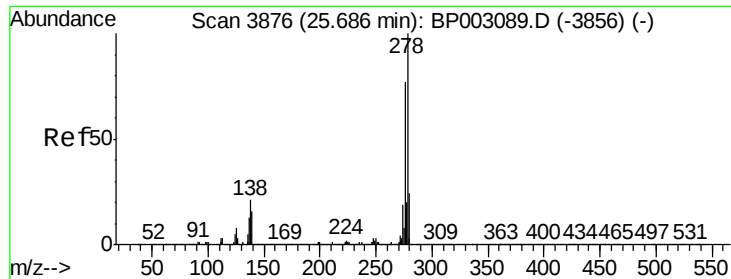
mohammad
9/15/2020 1:22:14 PM



#90
Benzo(a)pyrene
Concen: 31.667 ng
RT: 23.28 min Scan# 3467
Delta R.T. 0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.0
125	9.2	8.2	12.4





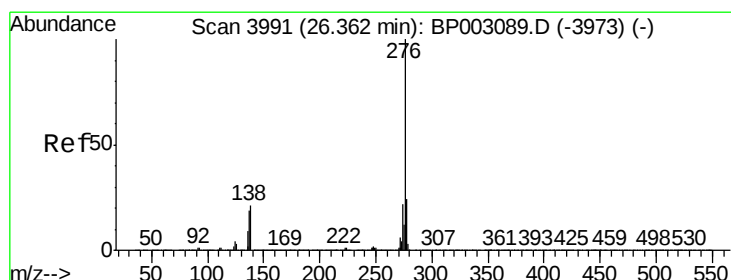
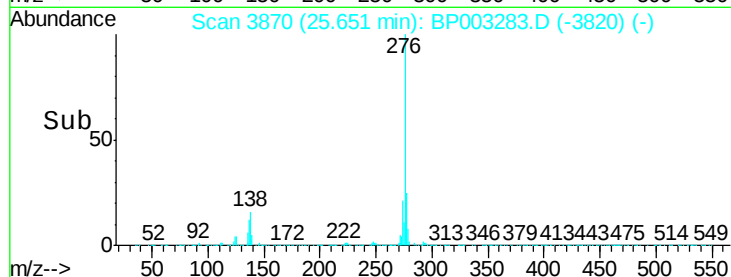
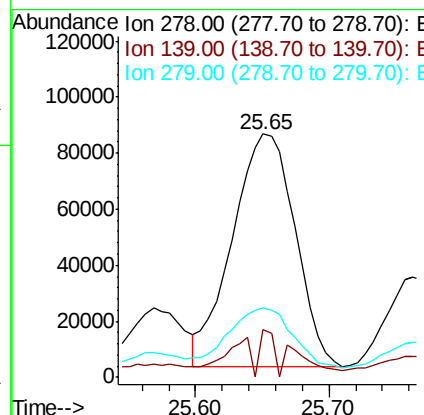
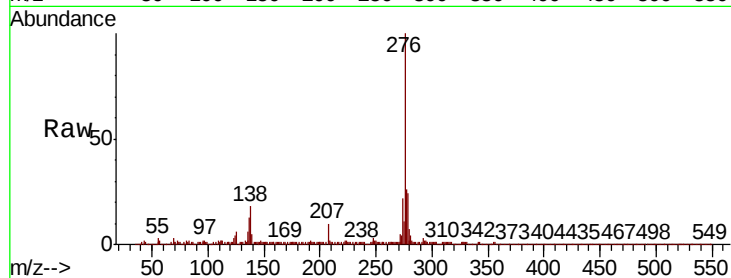
#91
Dibenzo(a,h)anthracene
Concen: 5.314 ng
RT: 25.65 min Scan# 3870
Delta R.T. -0.01 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Instrument :
BNA_P
ClientSampled :
B19-7-9

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.8	12.4	18.6#
279	28.6	19.0	28.6#

Manual Integrations
APPROVED

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#92
Benzo(g,h,i)perylene
Concen: 19.981 ng
RT: 26.35 min Scan# 3989
Delta R.T. 0.02 min
Lab File: BP003283.D
Acq: 14 Sep 2020 23:28

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.0	28.6
138	18.0	16.6	24.8

