

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052319\
 Data File : BF114550.D
 Acq On : 24 May 2019 3:19
 Operator : JU/SJ
 Sample : K2951-09DL 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-14-SDL

Manual Integrations
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Quant Time: May 24 08:27:08 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 24 07:23:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	127830	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	521627	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	273019	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	580200	20.00	ng	0.00
76) Chrysene-d12	13.98	240	369928	20.00	ng	0.00
87) Perylene-d12	15.44	264	389535	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	39108	4.92	ng	0.00
7) Phenol-d6	6.47	99	56100	5.97	ng	0.00
23) Nitrobenzene-d5	7.38	82	31279	3.37	ng	0.00
42) 2,4,6-Tribromophenol	10.64	330	15011	5.32	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	59612	3.30	ng	0.00
79) Terphenyl-d14	12.92	244	70248	3.91	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.12	128	184171	7.559	ng	96
37) 2-Methylnaphthalene	8.81	142	31897	2.029	ng	# 90
52) Acenaphthene	9.88	154	65018	3.925	ng	98
55) Dibenzofuran	10.06	168	82279	3.387	ng	93
58) Fluorene	10.40	166	72926	3.886	ng	99
71) Phenanthrene	11.36	178	733685	25.992	ng	96
72) Anthracene	11.41	178	111880	3.946	ng	97
73) Carbazole	11.57	167	80352	2.972	ng	97
75) Fluoranthene	12.55	202	946677	31.143	ng	98
78) Pyrene	12.78	202	820271	27.564	ng	98
81) Benzo(a)anthracene	13.97	228	348801	14.578	ng	99
83) Chrysene	14.00	228	294792	12.568	ng	98
86) Indeno(1,2,3-cd)pyrene	16.91	276	157896	7.617	ng	95
88) Benzo(b)fluoranthene	15.02	252	370982m	14.866	ng	
89) Benzo(k)fluoranthene	15.04	252	134145m	5.852	ng	
90) Benzo(a)pyrene	15.38	252	291348	13.265	ng	100
91) Dibenzo(a,h)anthracene	16.91	278	37098	2.033	ng	# 94
92) Benzo(g,h,i)perylene	17.36	276	149775	8.189	ng	97

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

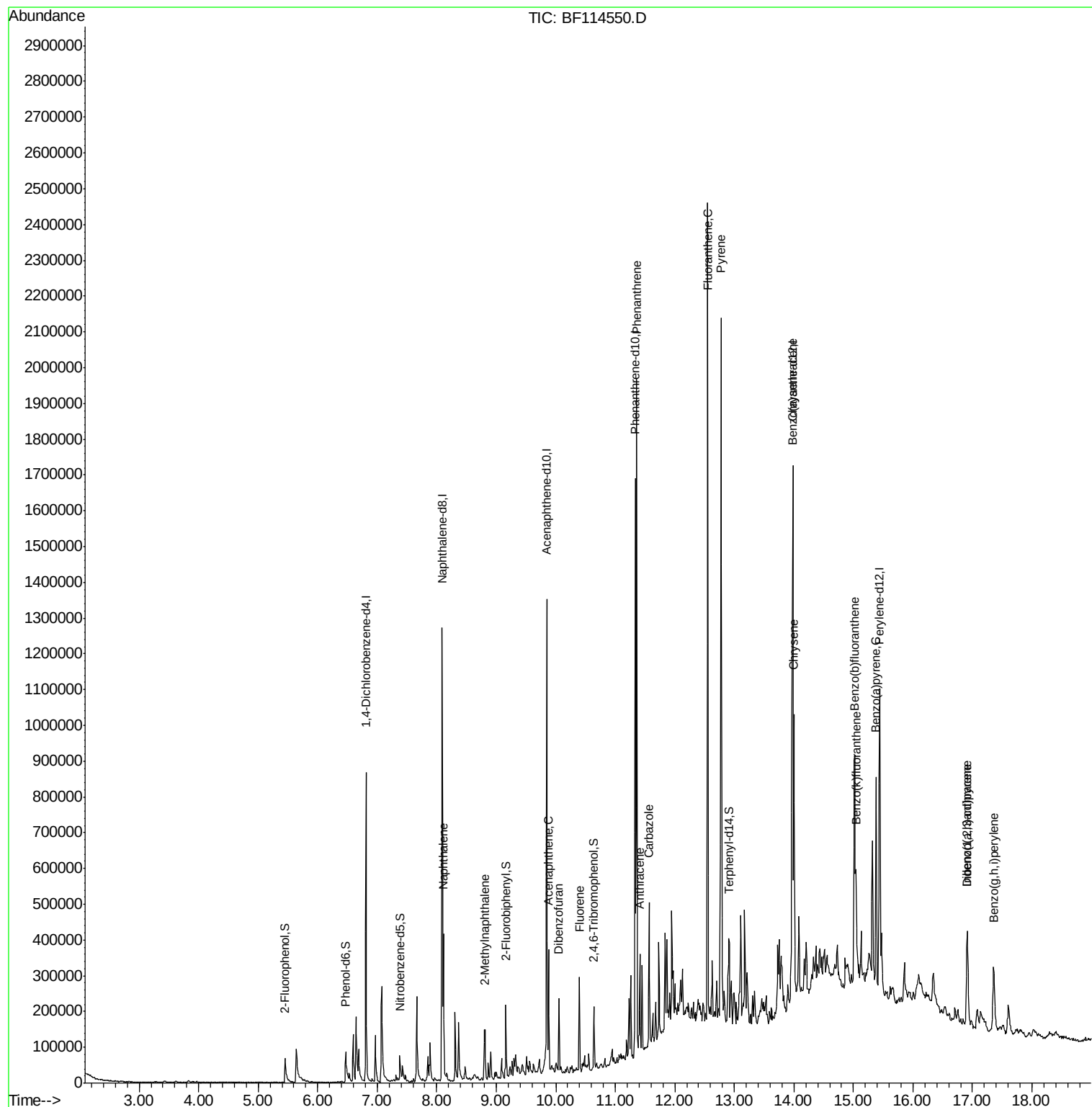
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052319\
Data File : BF114550.D
Acq On : 24 May 2019 3:19
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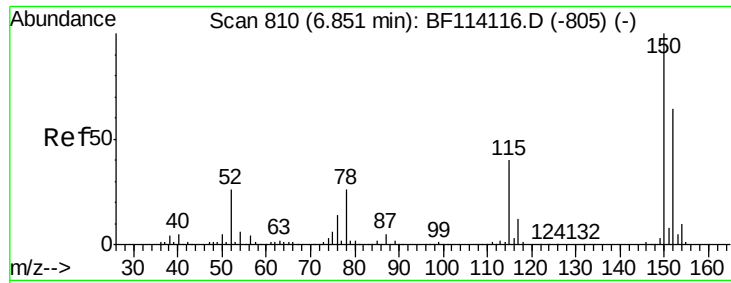
Instrument :
BNA_F
ClientSampled :
TP-14-SDL

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Quant Time: May 24 08:27:08 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 24 07:23:33 2019
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#1

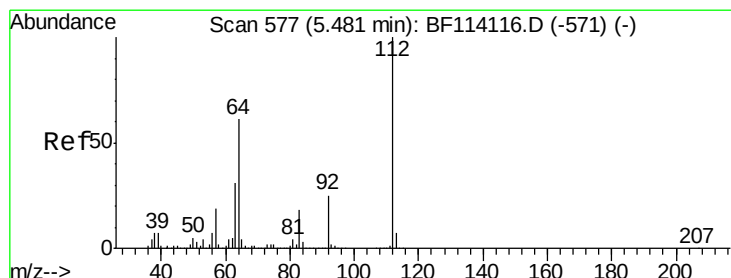
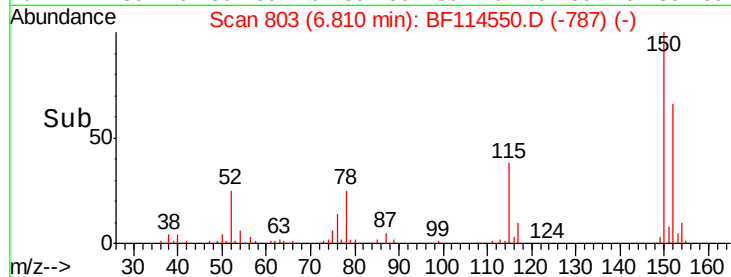
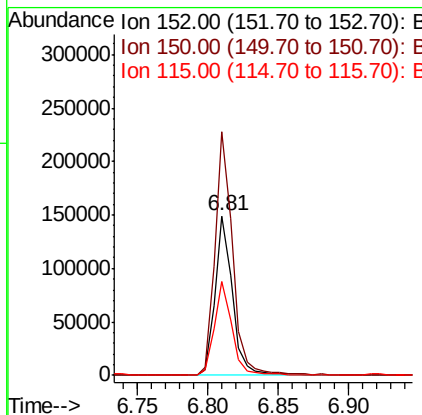
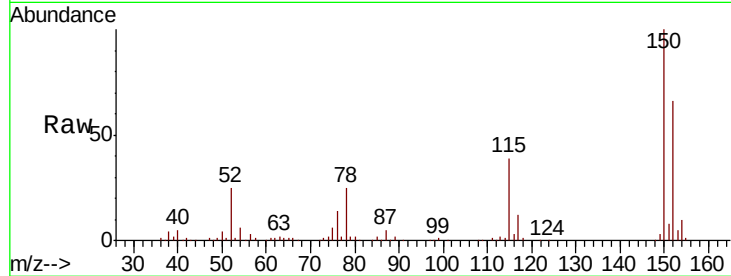
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Instrument :
BNA_F
ClientSampleId :
TP-14-SDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.6	124.3	186.5
115	59.0	49.1	73.7

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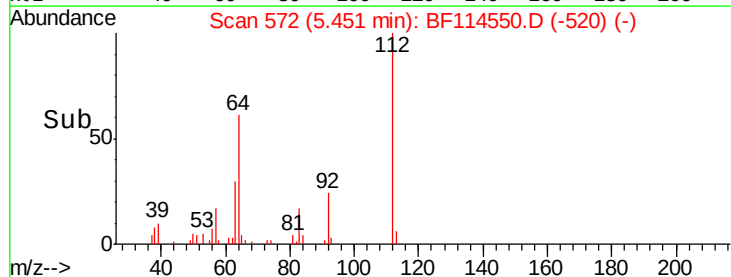
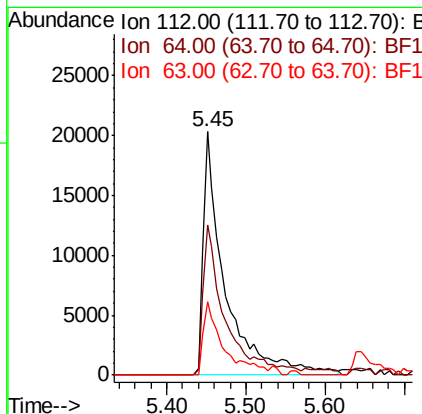
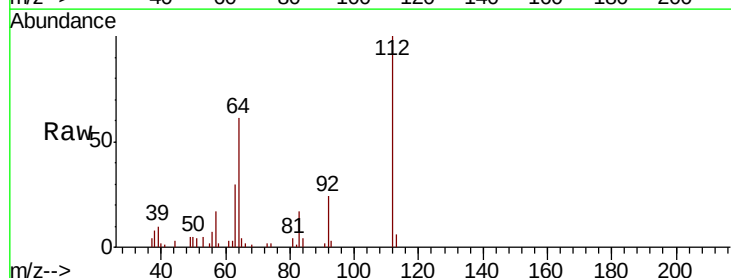
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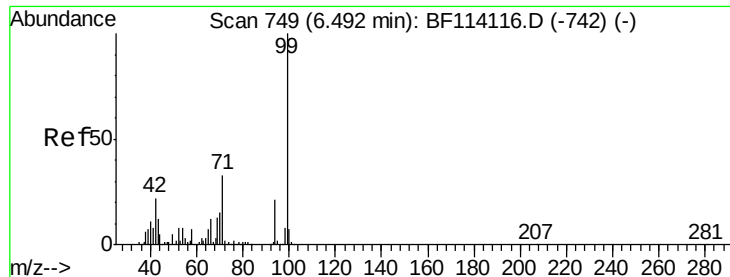


#5

2-Fluorophenol
Concen: 4.923 ng
RT: 5.45 min Scan# 572
Delta R.T. 0.01 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.5	49.0	73.6
63	30.1	24.6	37.0





#7

Phenol-d6

Concen: 5.971 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF114550.D

Acq: 24 May 2019 3:19

Instrument :

BNA_F

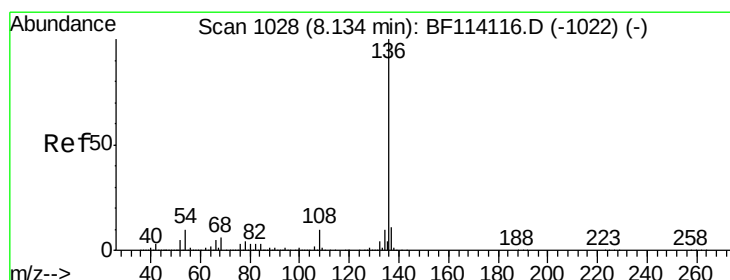
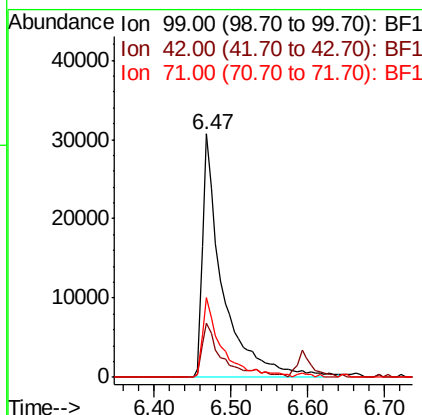
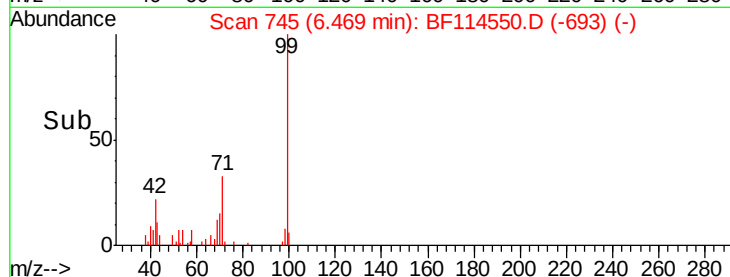
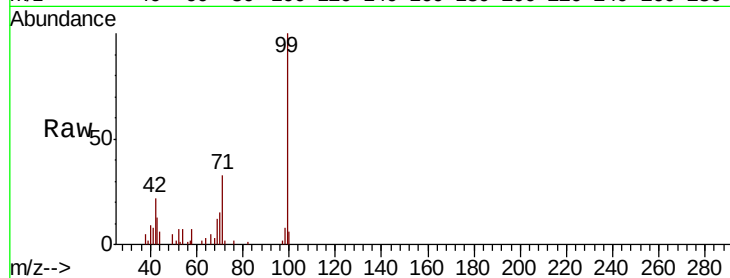
ClientSampleId :

TP-14-SDL

Tot Ion:	99	Resp:	56100
Ion Ratio	Lower	Upper	
99	100		
42	22.1	17.9	26.9
71	32.5	26.2	39.2

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#21

Naphthalene-d8

Concen: 20.000 ng

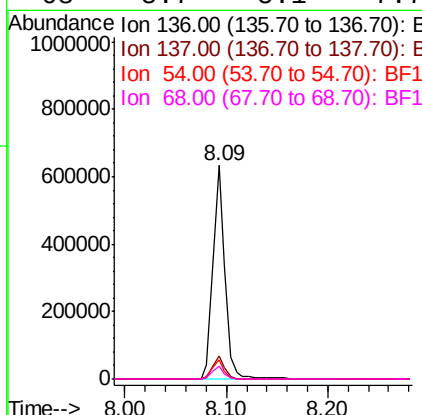
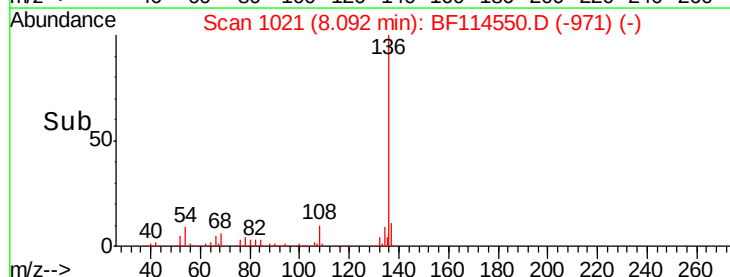
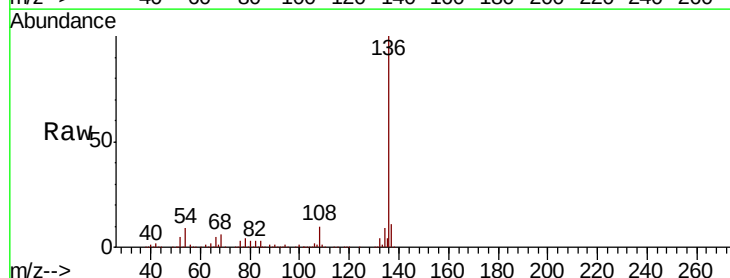
RT: 8.09 min Scan# 1021

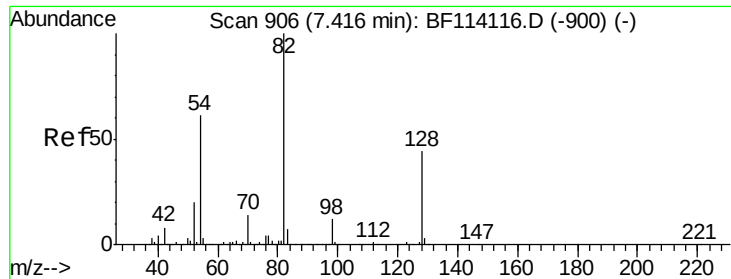
Delta R.T. -0.01 min

Lab File: BF114550.D

Acq: 24 May 2019 3:19

Tgt Ion:	136	Resp:	521627
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.8	13.2
54	9.0	7.8	11.8
68	5.7	5.1	7.7





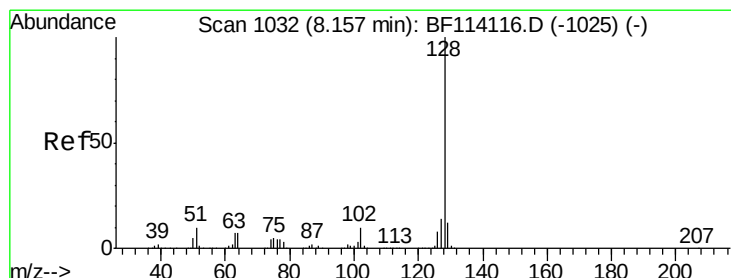
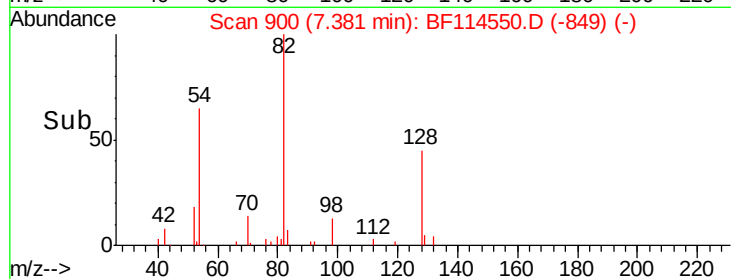
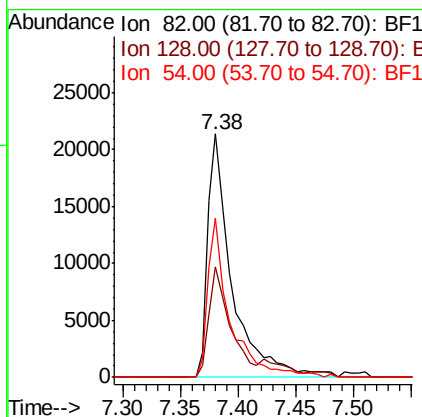
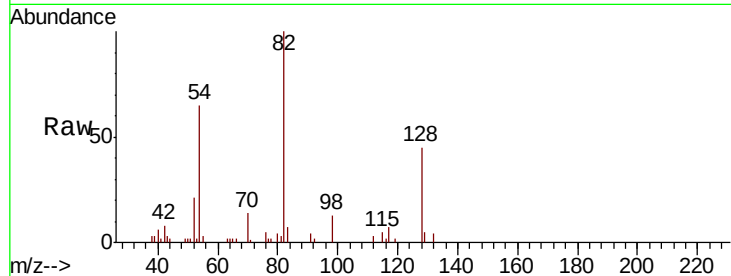
#23
Nitrobenzene-d5
Concen: 3.365 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.00 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Instrument :
BNA_F
ClientSampled :
TP-14-SDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.4	35.5	53.3
54	65.2	48.5	72.7

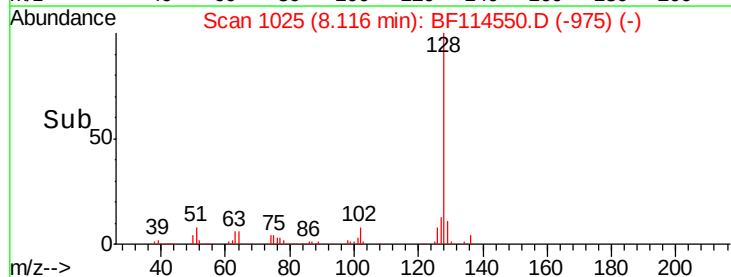
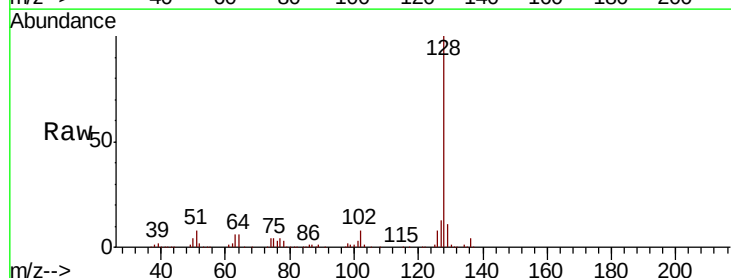
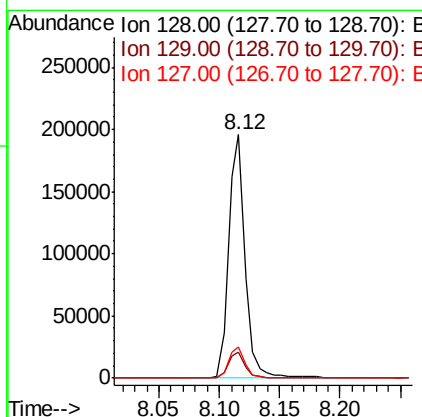
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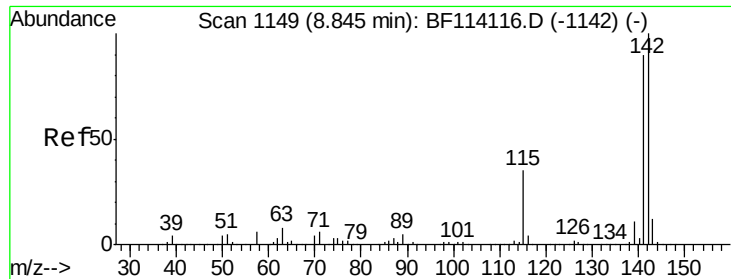
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#31
Naphthalene
Concen: 7.559 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.6	14.4
127	12.5	11.3	16.9





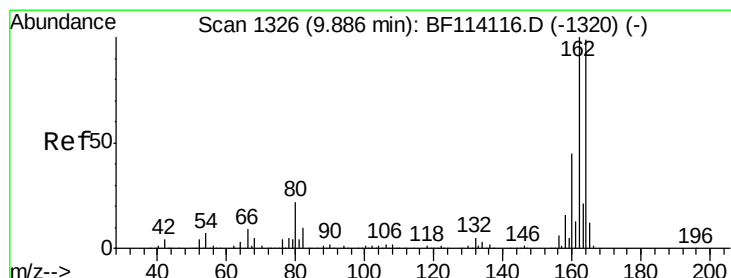
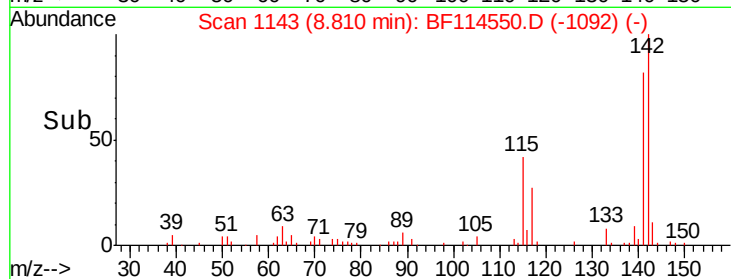
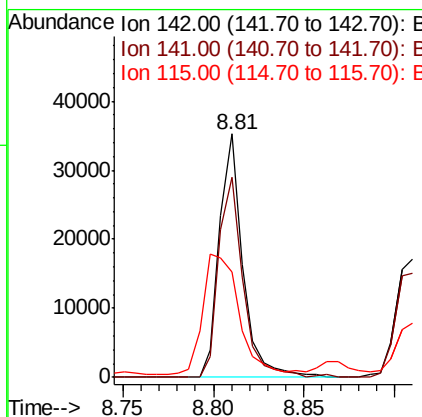
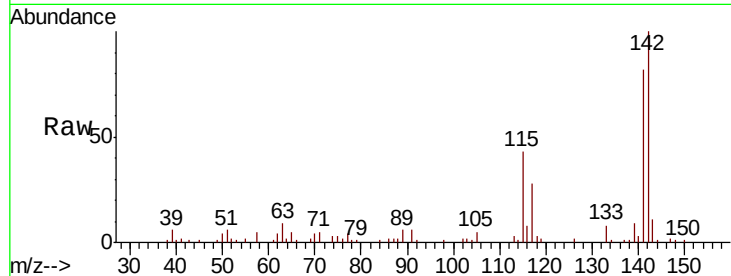
#37
2-Methylnaphthalene
Concen: 2.029 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.00 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Instrument :
BNA_F
ClientSampleId :
TP-14-SDL

Tot Ion	Ratio	Lower	Upper
142	100		
141	82.2	72.1	108.1
115	43.4	28.0	42.0

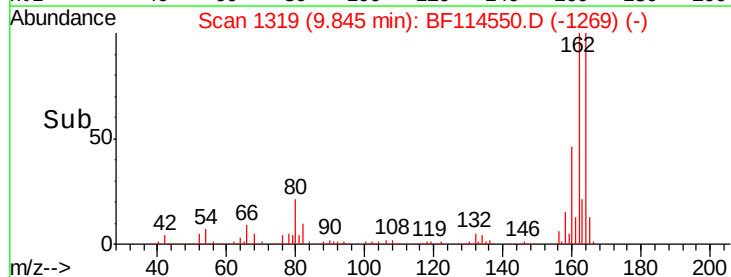
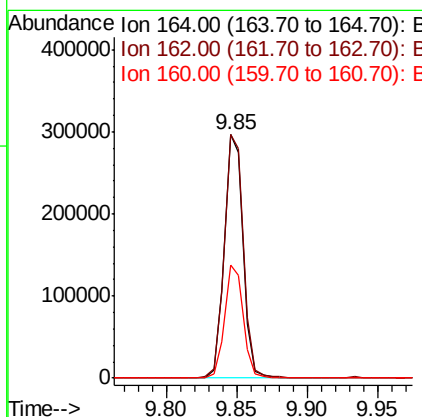
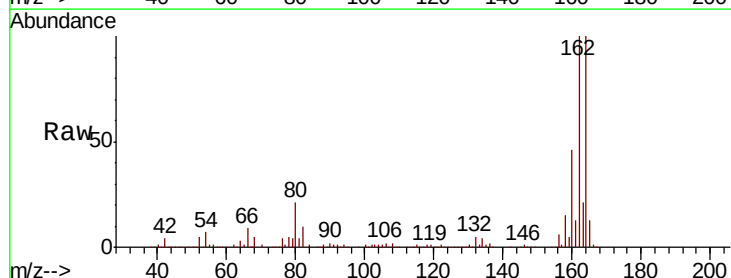
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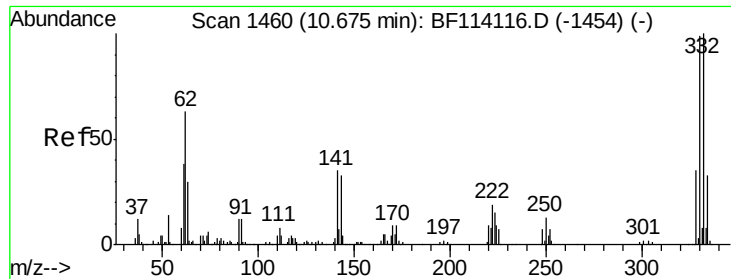
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.6	120.8
160	46.4	36.5	54.7





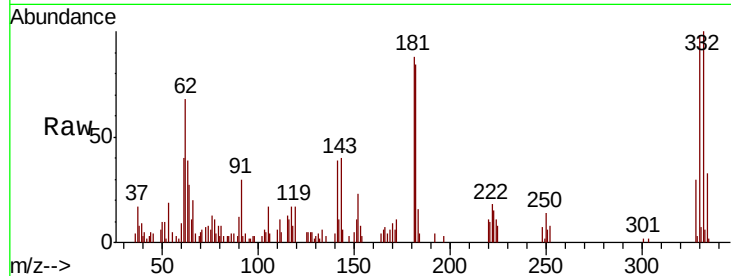
#42
 2,4,6-Tribromophenol
 Concen: 5.318 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: BF114550.D
 Acq: 24 May 2019 3:19

Instrument :
 BNA_F
 ClientSampleId :
 TP-14-SDL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	103.1	81.4	122.2	
141	38.3	26.6	40.0	

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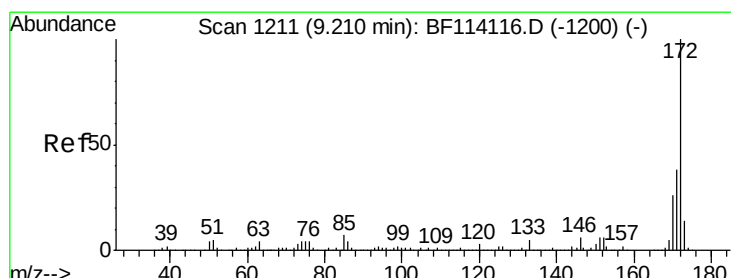
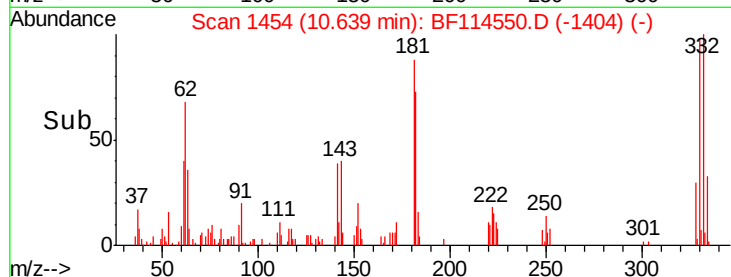
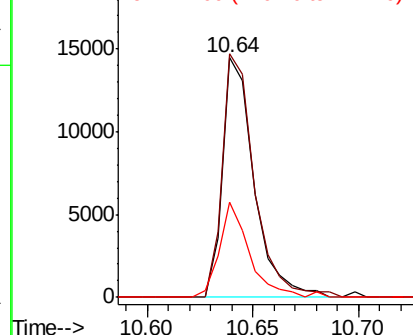


Abundance

Ion 329.80 (329.50 to 330.50): E

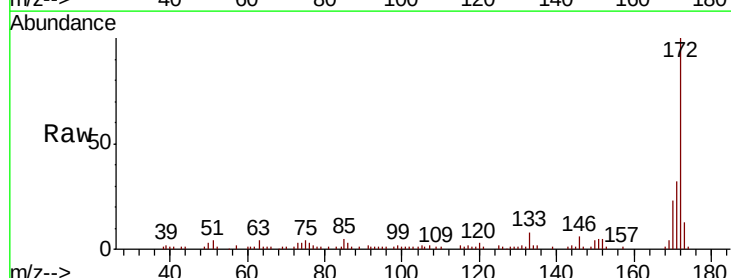
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 3.303 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF114550.D
 Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	32.0	30.7	46.1	
170	22.8	20.5	30.7	

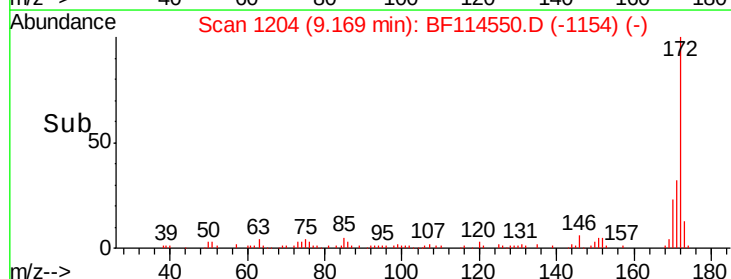
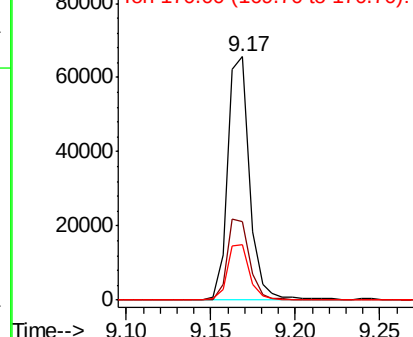


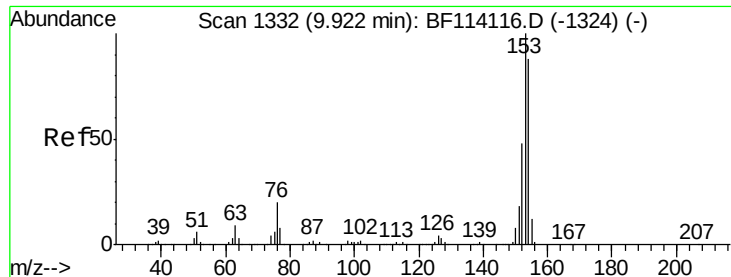
Abundance

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





#52

Acenaphthene

Concen: 3.925 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF114550.D

Acq: 24 May 2019 3:19

Instrument :

BNA_F

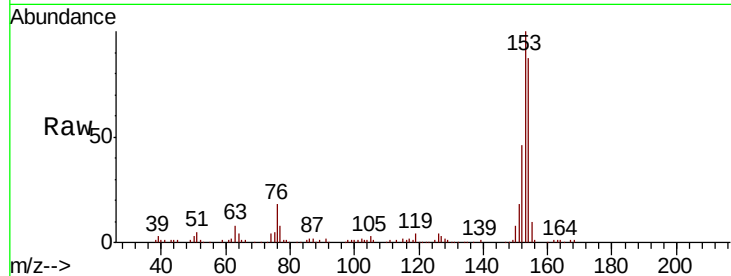
ClientSampleId :

TP-14-SDL

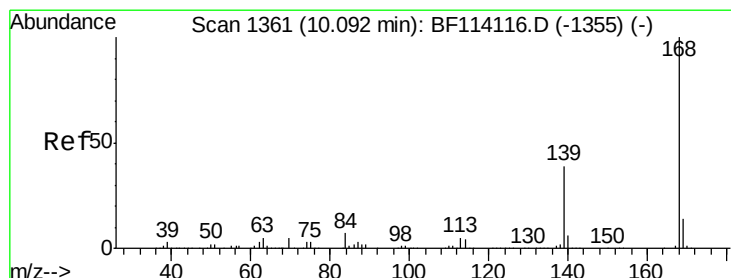
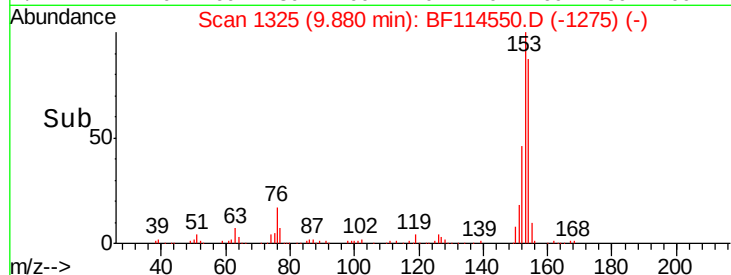
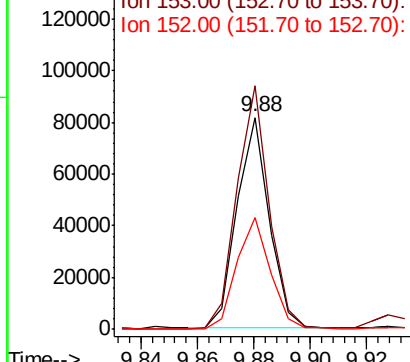
Tot Ion:	154	Resp:	65018
Ion Ratio	Lower	Upper	
154	100		
153	114.8	90.5	135.7
152	52.4	43.4	65.2

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 3.387 ng

RT: 10.06 min Scan# 1355

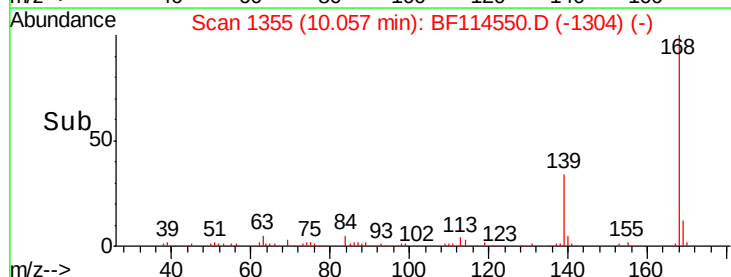
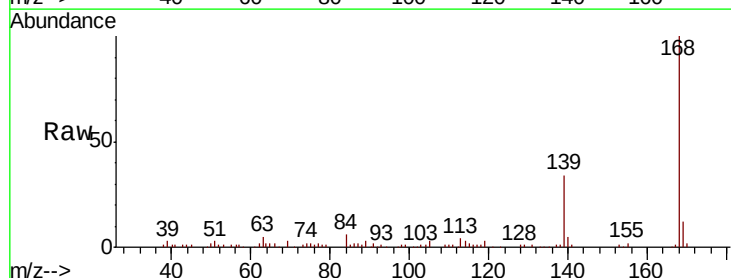
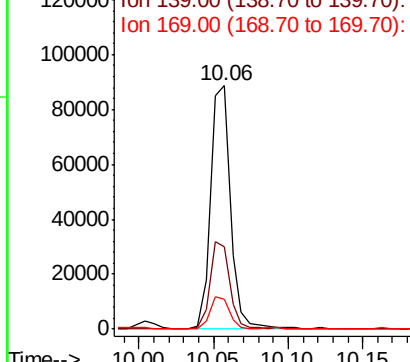
Delta R.T. -0.00 min

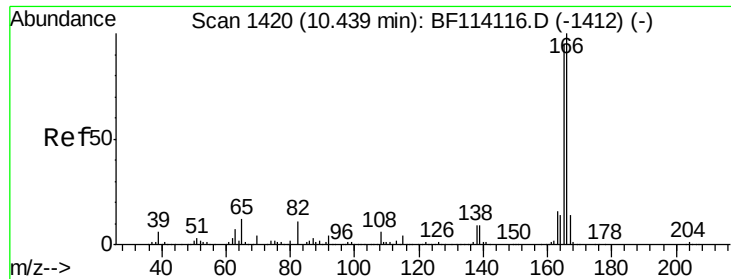
Lab File: BF114550.D

Acq: 24 May 2019 3:19

Tgt Ion:	168	Resp:	82279
Ion Ratio	Lower	Upper	
168	100		
139	34.0	31.1	46.7
169	12.2	11.4	17.0

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





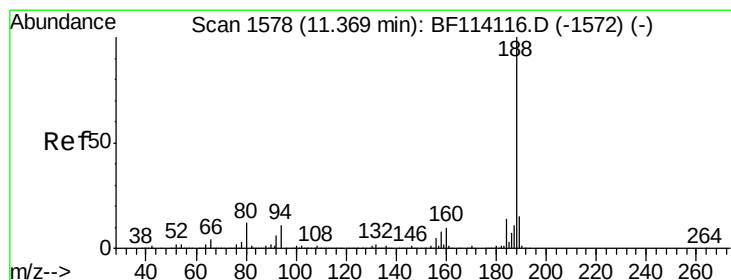
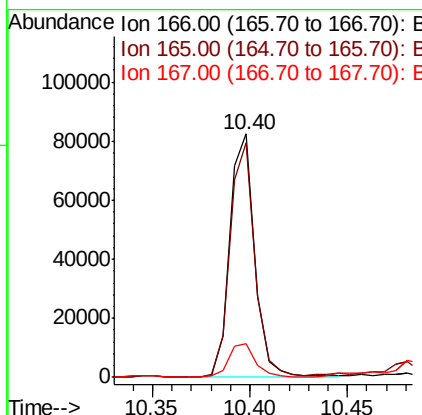
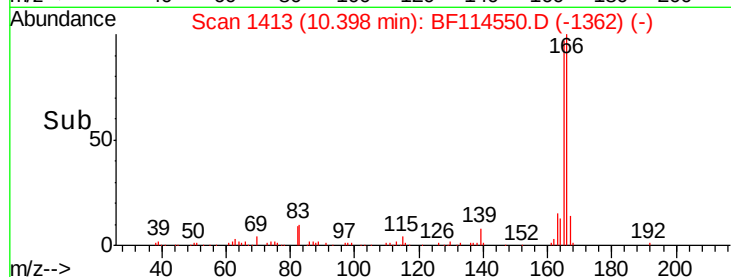
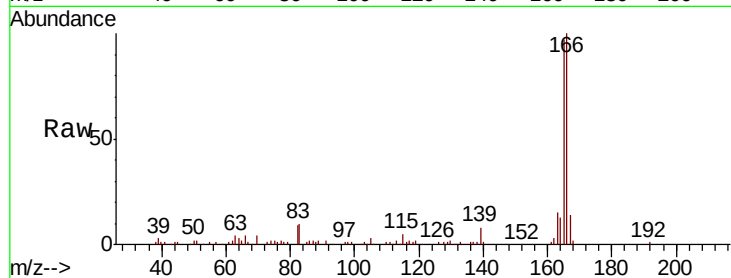
#58
 Fluorene
 Concen: 3.886 ng
 RT: 10.40 min Scan# 1413
 Delta R.T. -0.00 min
 Lab File: BF114550.D
 Acq: 24 May 2019 3:19

Instrument :
 BNA_F
 ClientSampled :
 TP-14-SDL

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.6	76.1	114.1
167	13.9	11.1	16.7

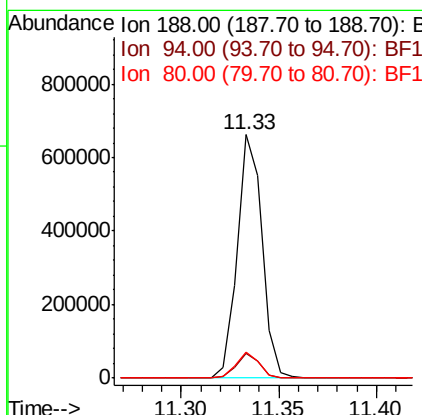
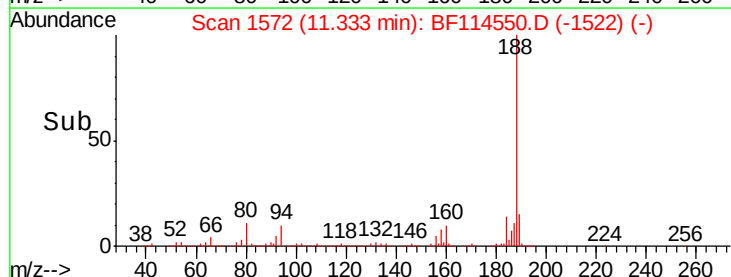
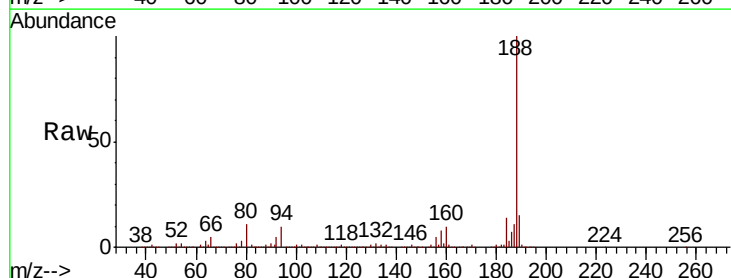
Manual Integrations
 APPROVED

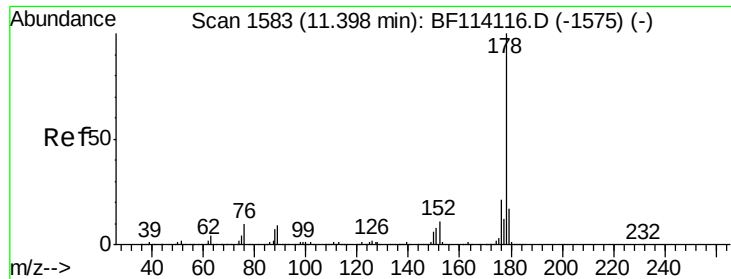
mohammad
 5/24/2019 1:36:53 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF114550.D
 Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.4	12.6
80	10.8	9.2	13.8





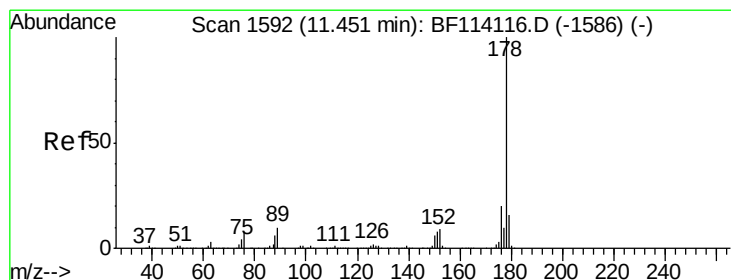
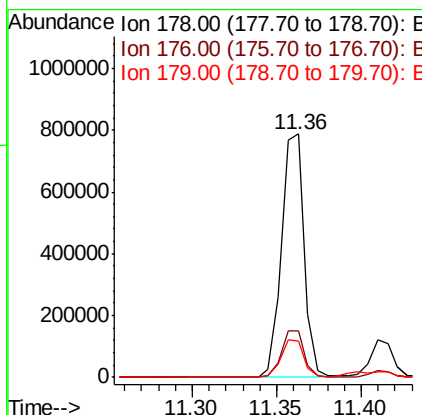
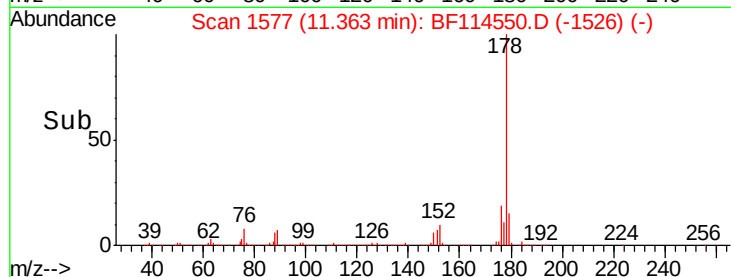
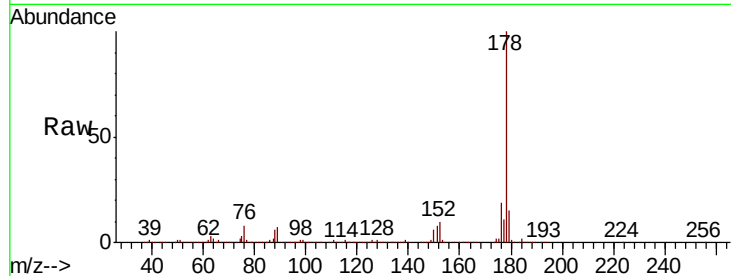
#71
Phenanthrene
Concen: 25.992 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.00 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Instrument :
BNA_F
ClientSampled :
TP-14-SDL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	16.4	24.6
179	15.0	13.2	19.8

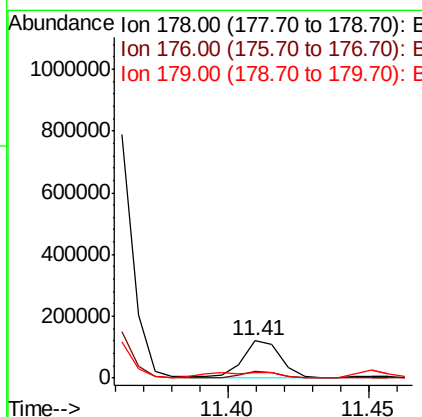
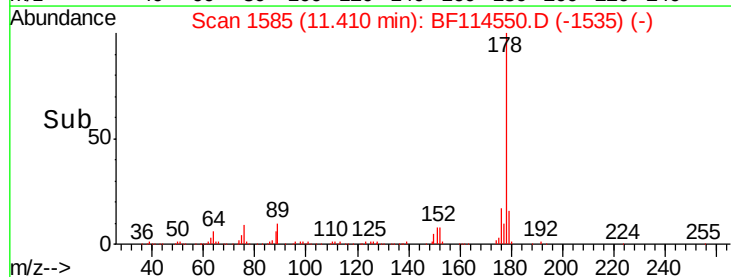
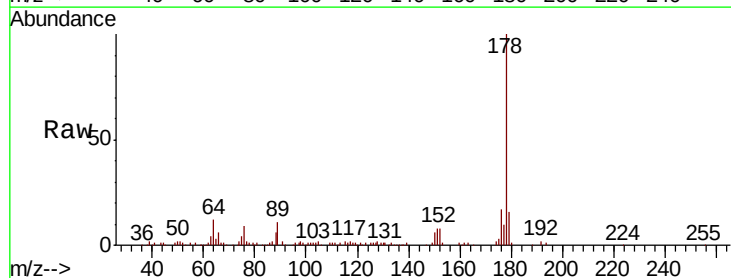
Manual Integrations
APPROVED

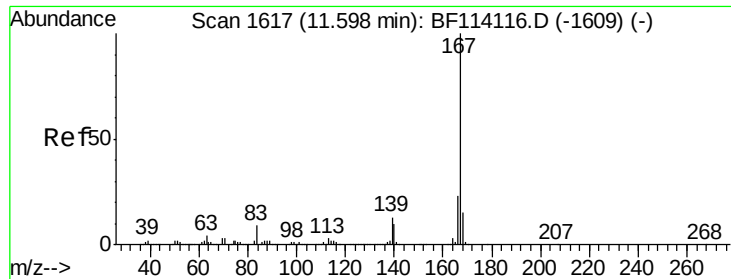
mohammad
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#72
Anthracene
Concen: 3.946 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.1	15.8	23.8
179	16.4	13.0	19.4





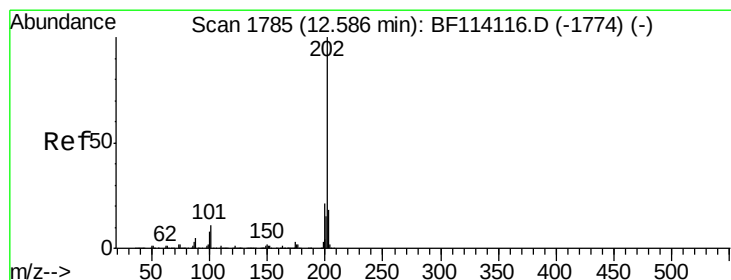
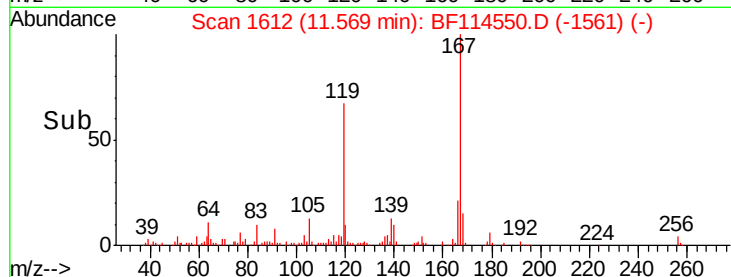
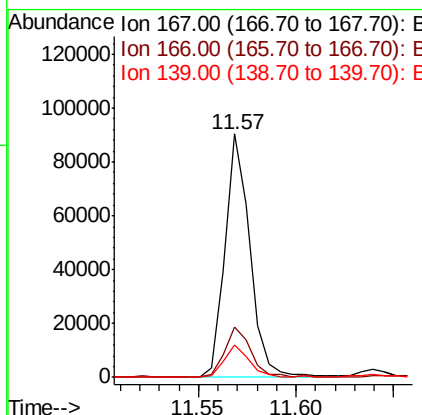
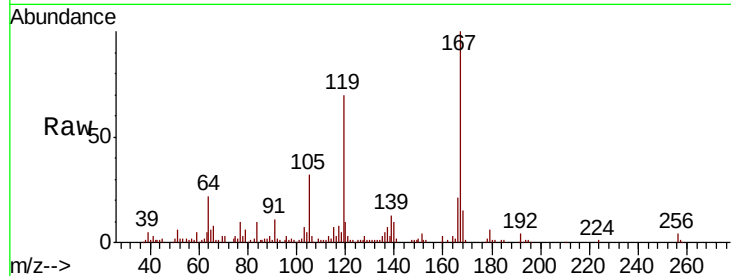
#73
 Carbazole
 Concen: 2.972 ng
 RT: 11.57 min Scan# 1612
 Delta R.T. -0.00 min
 Lab File: BF114550.D
 Acq: 24 May 2019 3:19

Instrument :
 BNA_F
 ClientSampleId :
 TP-14-SDL

Tot Ion	Ratio	Lower	Upper
167	100		
166	20.9	18.2	27.2
139	13.1	10.6	16.0

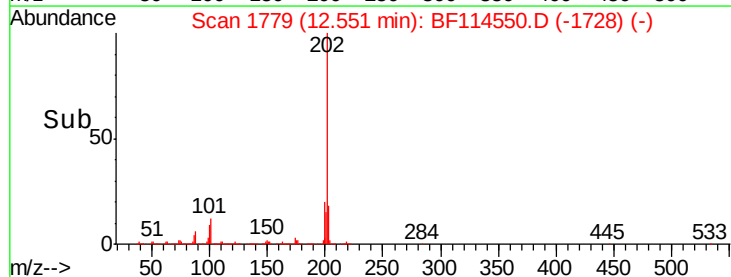
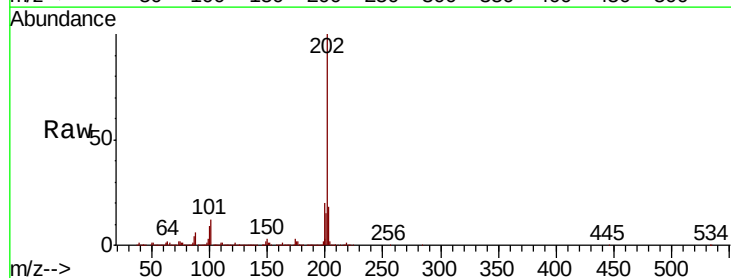
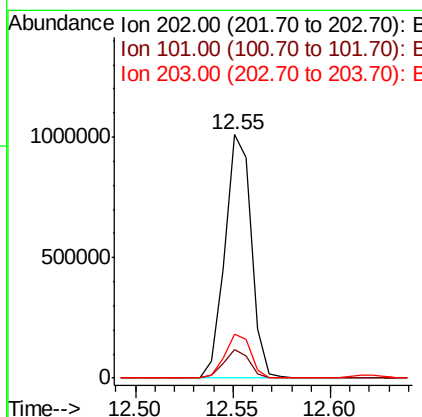
Manual Integrations
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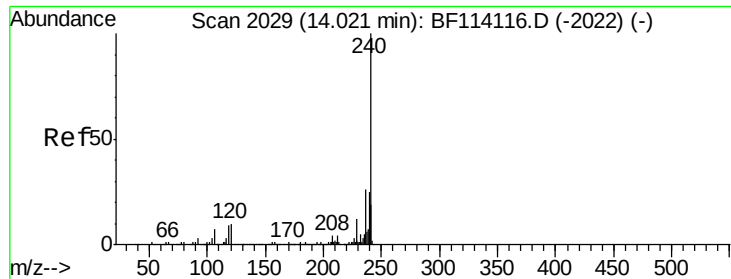
mohammad
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#75
 Fluoranthene
 Concen: 31.143 ng
 RT: 12.55 min Scan# 1779
 Delta R.T. -0.00 min
 Lab File: BF114550.D
 Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	31.0
203	17.9	0.0	38.4





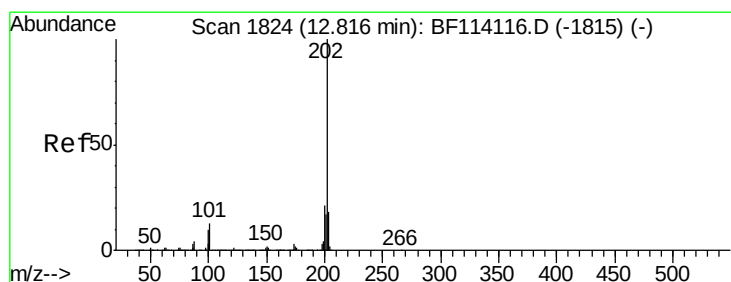
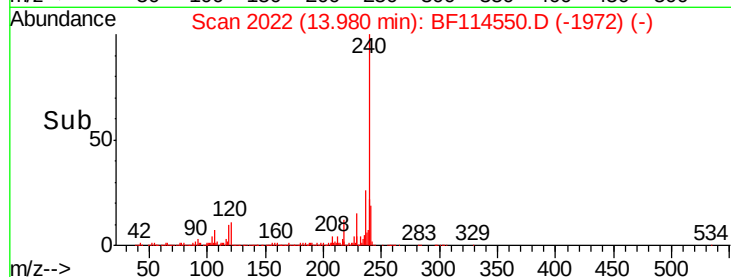
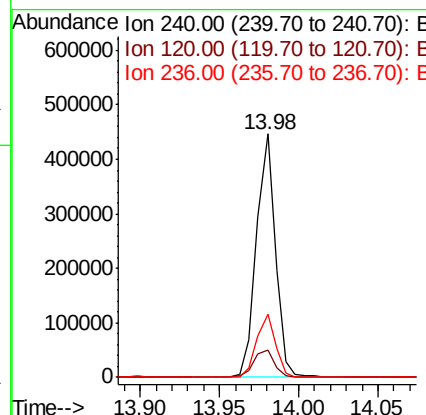
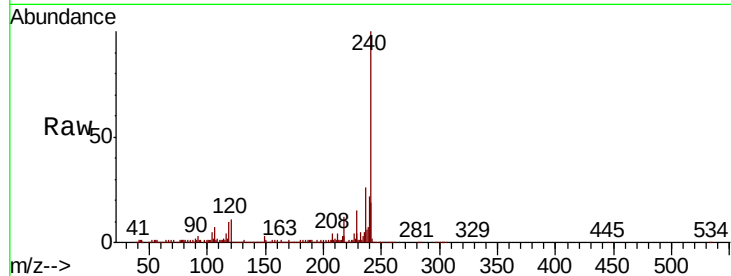
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Instrument :
BNA_F
ClientSampleId :
TP-14-SDL

Tot Ion	Ratio	Resp	Lower	Upper
240	100	369928		
120	11.0	8.3	12.5	
236	25.7	20.8	31.2	

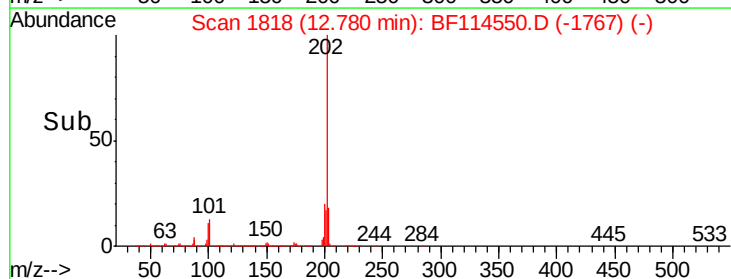
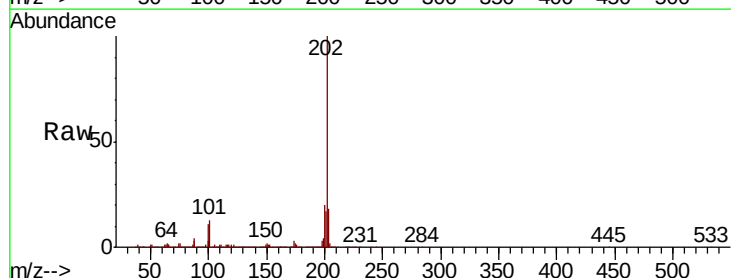
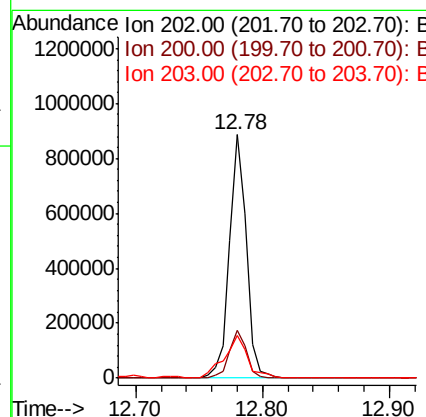
Manual Integrations
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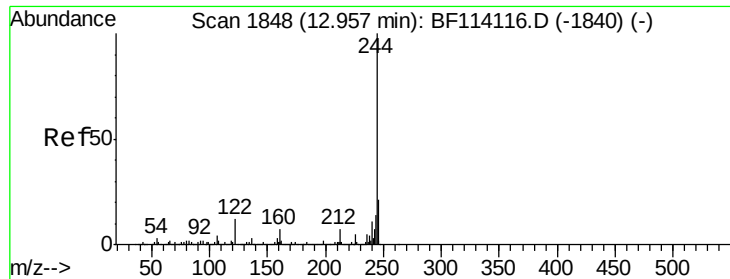
mohammad
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#78
Pyrene
Concen: 27.564 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.00 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	820271		
200	19.8	16.9	25.3	
203	17.7	14.5	21.7	





#79

Terphenyl-d14

Concen: 3.915 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.00 min

Lab File: BF114550.D

Acq: 24 May 2019 3:19

Instrument :

BNA_F

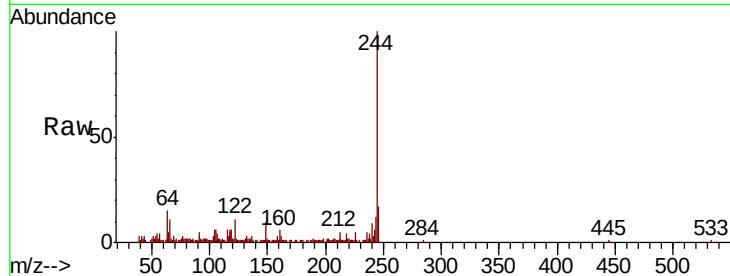
ClientSampled :

TP-14-SDL

Tot Ion	Ratio	Lower	Upper
244	100		
212	5.4	5.8	8.6#
122	11.1	9.4	14.2

Manual Integrations
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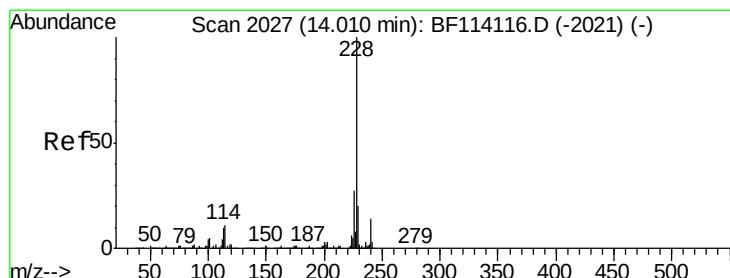
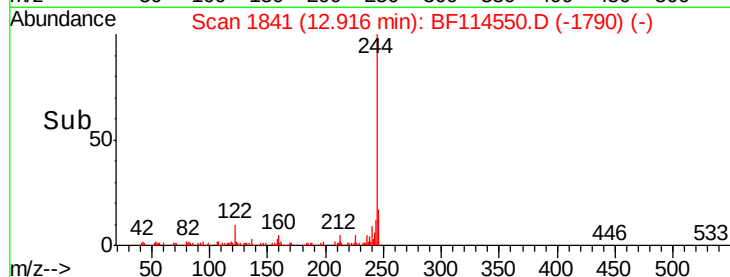
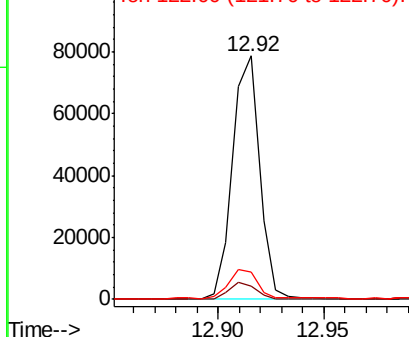


Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 14.578 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF114550.D

Acq: 24 May 2019 3:19

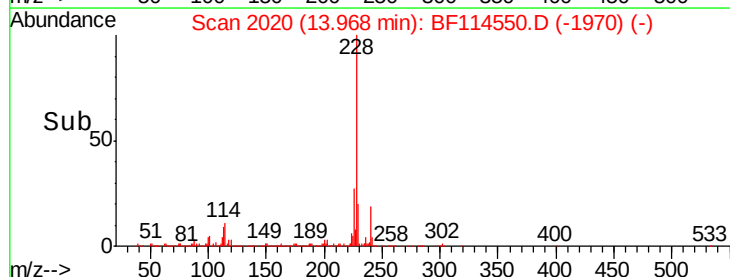
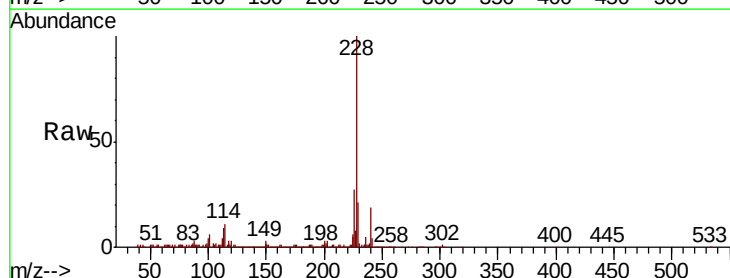
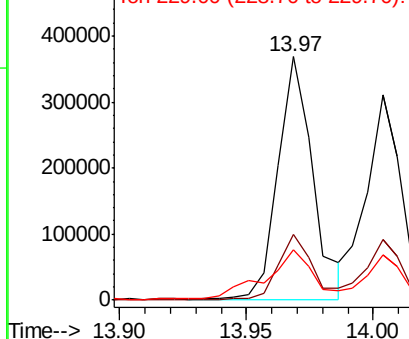
Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.2	33.2
229	20.7	16.4	24.6

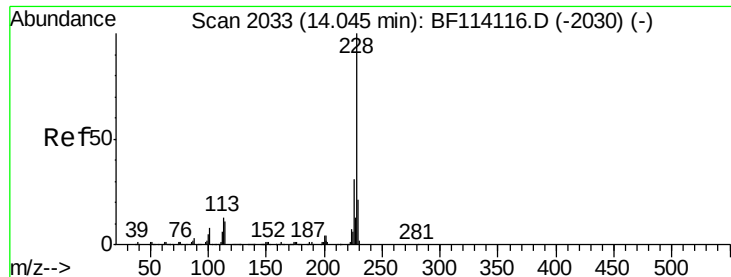
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





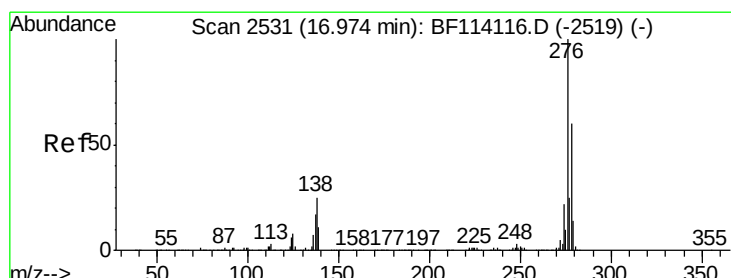
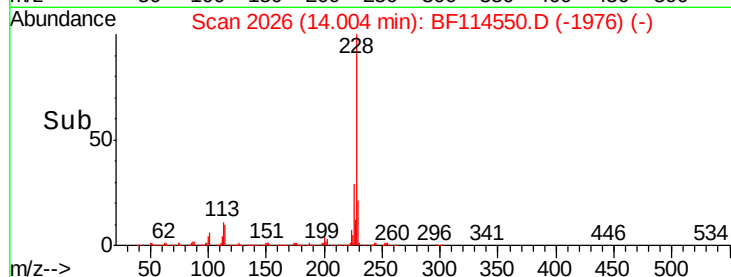
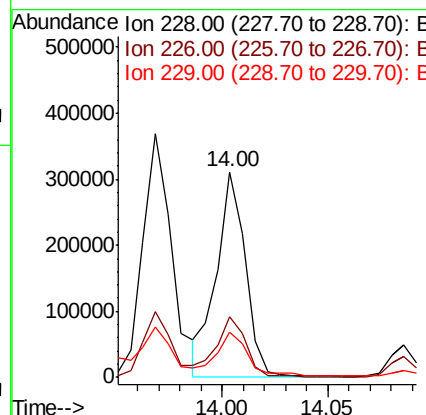
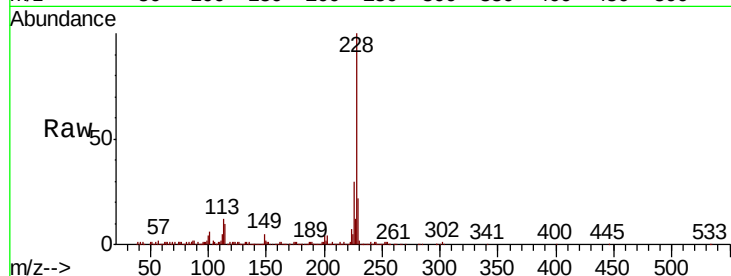
#83
Chrysene
Concen: 12.568 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Instrument :
BNA_F
ClientSampleId :
TP-14-SDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	25.0	37.6
229	21.8	17.0	25.6

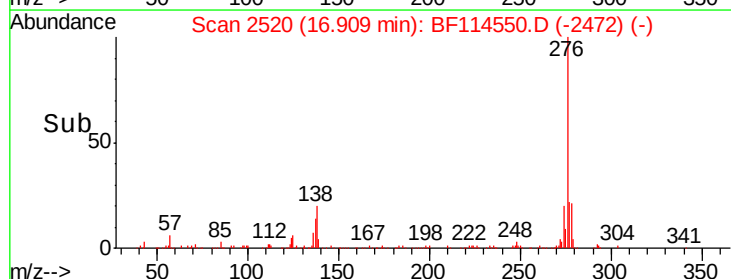
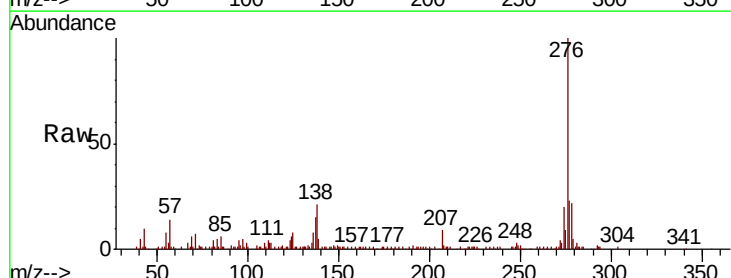
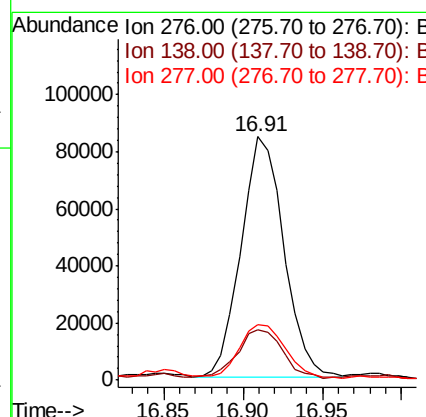
Manual Integrations
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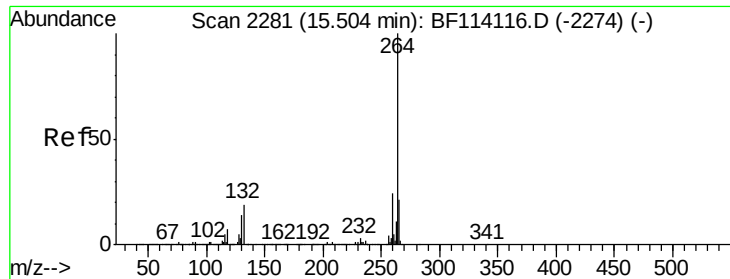
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 7.617 ng
RT: 16.91 min Scan# 2520
Delta R.T. -0.02 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.7	20.2	30.2
277	23.7	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2270

Delta R.T. -0.01 min

Lab File: BF114550.D

Acq: 24 May 2019 3:19

Instrument :

BNA_F

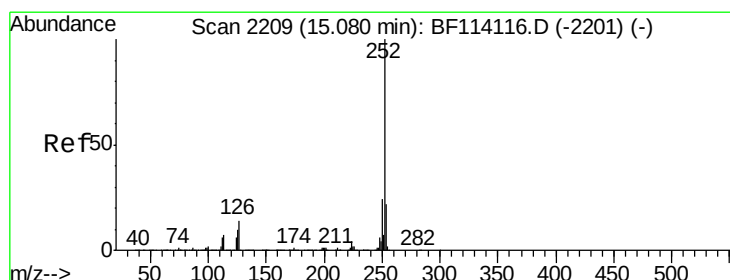
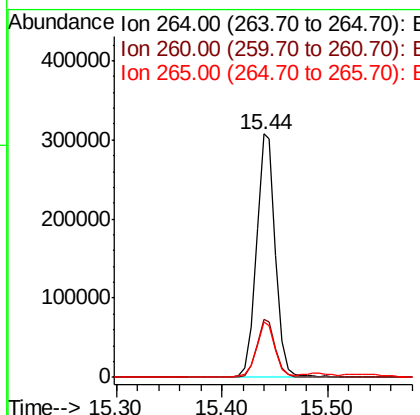
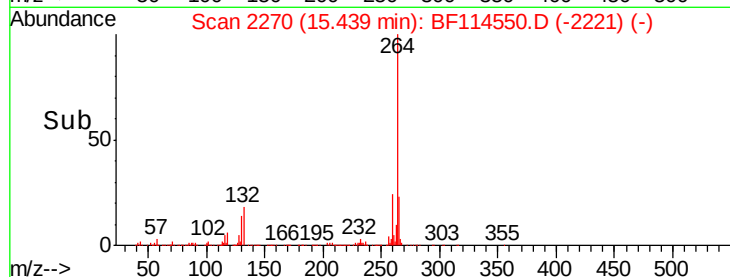
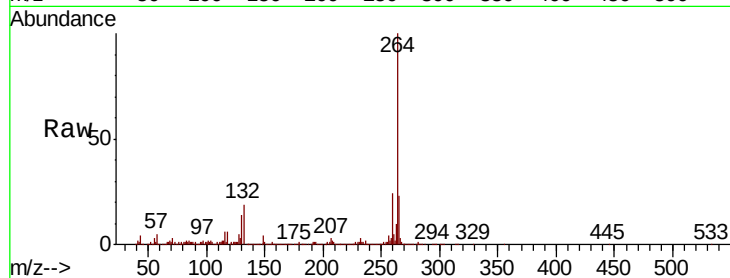
ClientSampleId :

TP-14-SDL

Tot Ion:	264	Resp:	389535
Ion Ratio	Lower	Upper	
264	100		
260	23.9	19.4	29.0
265	22.7	16.9	25.3

Manual Integrations
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#88

Benzo(b)fluoranthene

Concen: 14.866 ng m

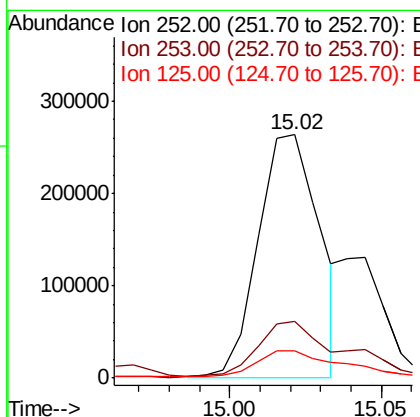
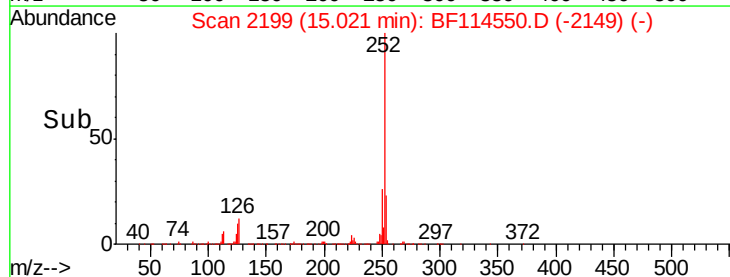
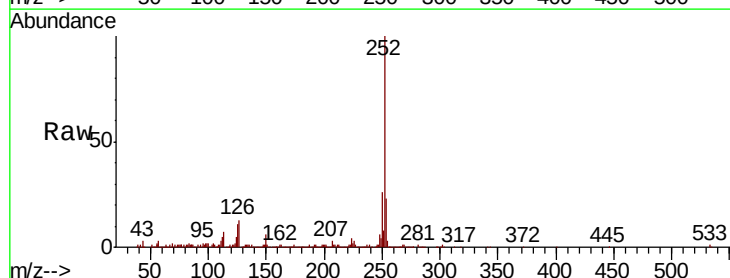
RT: 15.02 min Scan# 2199

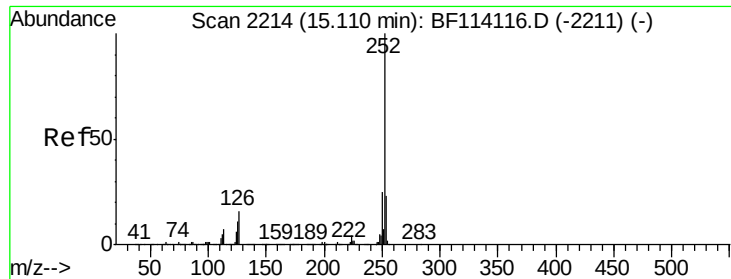
Delta R.T. -0.01 min

Lab File: BF114550.D

Acq: 24 May 2019 3:19

Tgt Ion:	252	Resp:	370982
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.8	26.8
125	11.0	8.3	12.5





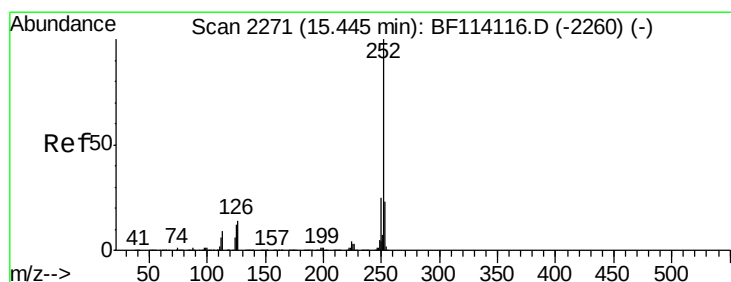
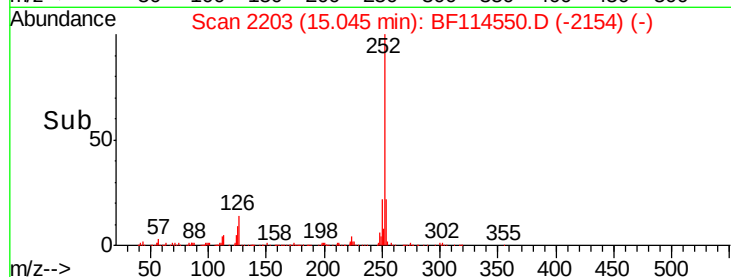
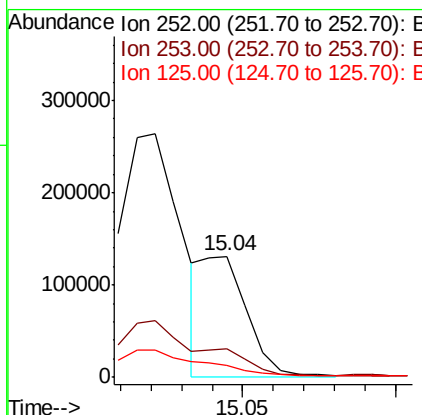
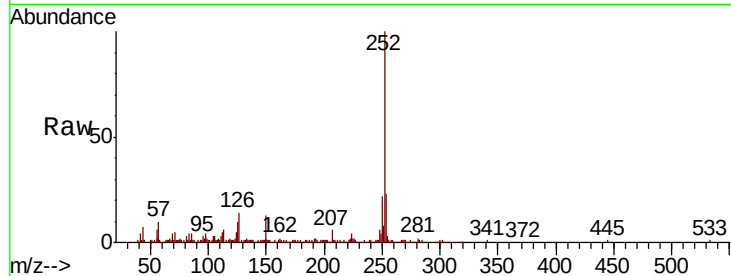
#89
Benzo(k)fluoranthene
Concen: 5.852 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Instrument :
BNA_F
ClientSampleId :
TP-14-SDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.2
125	10.3	8.6	13.0

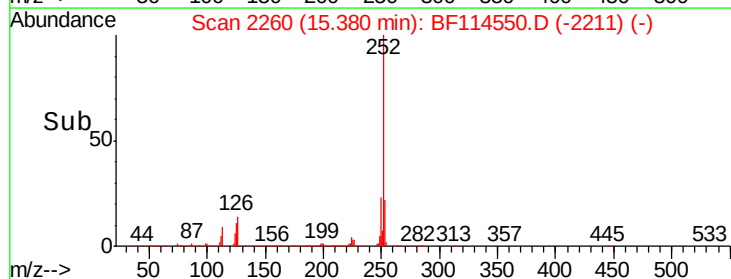
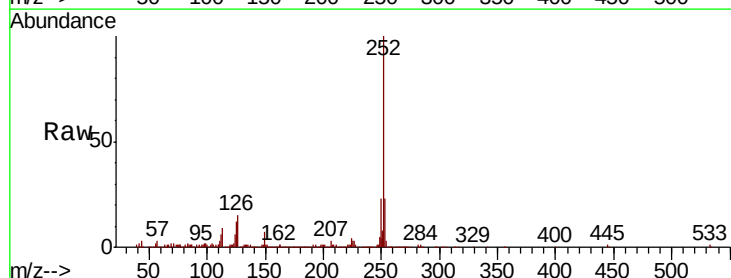
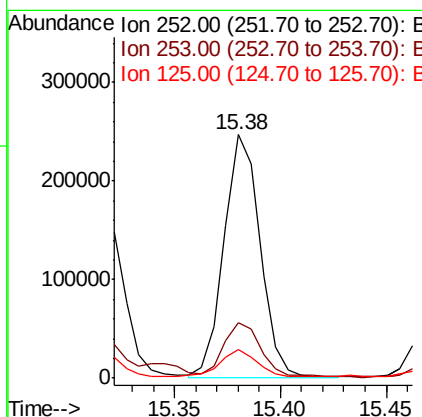
Manual Integrations
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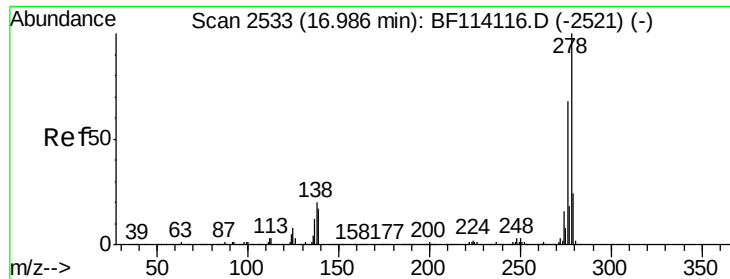
mohammad
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#90
Benzo(a)pyrene
Concen: 13.265 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	11.8	9.5	14.3





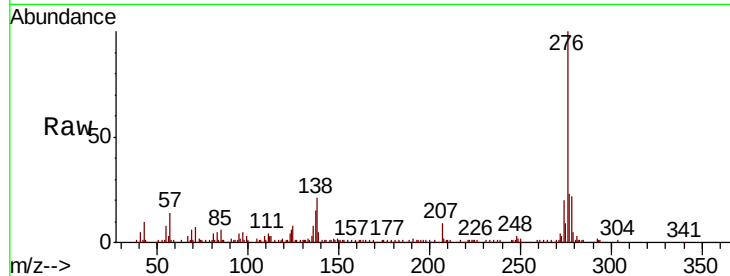
#91
Dibenzo(a,h)anthracene
Concen: 2.033 ng
RT: 16.91 min Scan# 2520
Delta R.T. -0.02 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Instrument :
BNA_F
ClientSampleId :
TP-14-SDL

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.1	13.5	20.3#
279	24.2	19.0	28.6

Manual Integrations
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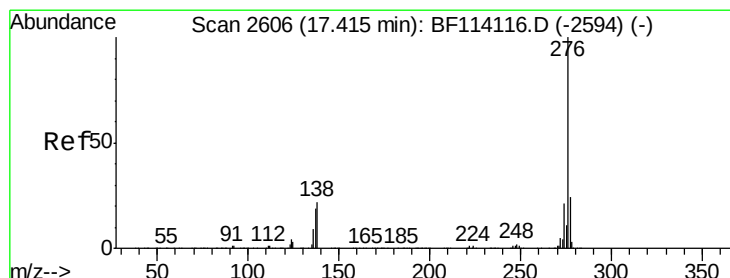
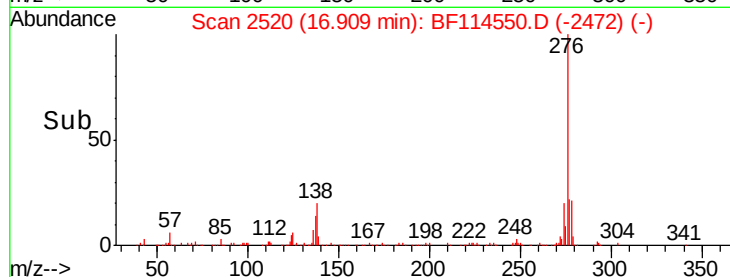
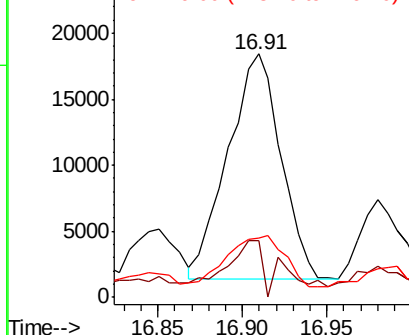


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 8.189 ng
RT: 17.36 min Scan# 2596
Delta R.T. -0.01 min
Lab File: BF114550.D
Acq: 24 May 2019 3:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	19.7	17.8	26.6

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

