

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051419\
 Data File : BF114265.D
 Acq On : 14 May 2019 20:38
 Operator : JU/SJ
 Sample : K2766-05DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS007-0002-01DL

Manual Integrations
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mohammad
 5/16/2019 9:10:16 AM

Quant Time: May 15 03:29:08 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 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	199599	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	771188	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	356332	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	664880	20.00	ng	0.01
76) Chrysene-d12	14.03	240	499867	20.00	ng	0.00
87) Perylene-d12	15.51	264	549447	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	677964	54.66	ng	0.01
7) Phenol-d6	6.50	99	880831	60.04	ng	0.01
23) Nitrobenzene-d5	7.42	82	536044	39.01	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	175844	47.73	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	813594	34.54	ng	0.00
79) Terphenyl-d14	12.96	244	688931	28.41	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	368447	10.228	ng	97
37) 2-Methylnaphthalene	8.85	142	158912	6.837	ng	93
38) 1-Methylnaphthalene	8.95	142	102010	4.661	ng	97
46) 1,1'-Biphenyl	9.31	154	68404	2.376	ng	97
49) Acenaphthylene	9.75	152	561084	15.924	ng	98
50) Dimethylphthalate	9.60	163	136617	5.223	ng	99
58) Fluorene	10.44	166	82263	3.359	ng	98
71) Phenanthrene	11.40	178	2051474	63.420	ng	99
72) Anthracene	11.45	178	369323	11.367	ng	99
75) Fluoranthene	12.60	202	2575850	73.947	ng	99
78) Pyrene	12.84	202	4212280	104.752	ng	97
81) Benzo(a)anthracene	14.02	228	1757698m	54.365	ng	
83) Chrysene	14.06	228	1967399	62.076	ng	98
86) Indeno(1,2,3-cd)pyrene	17.00	276	818321	29.215	ng	97
88) Benzo(b)fluoranthene	15.09	252	2174965m	61.788	ng	
89) Benzo(k)fluoranthene	15.11	252	442253m	13.677	ng	
90) Benzo(a)pyrene	15.46	252	1376854	44.444	ng	99
91) Dibenzo(a,h)anthracene	17.00	278	225367m	8.755	ng	
92) Benzo(a,h,i)perylene	17.45	276	927927	35.969	ng	98

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

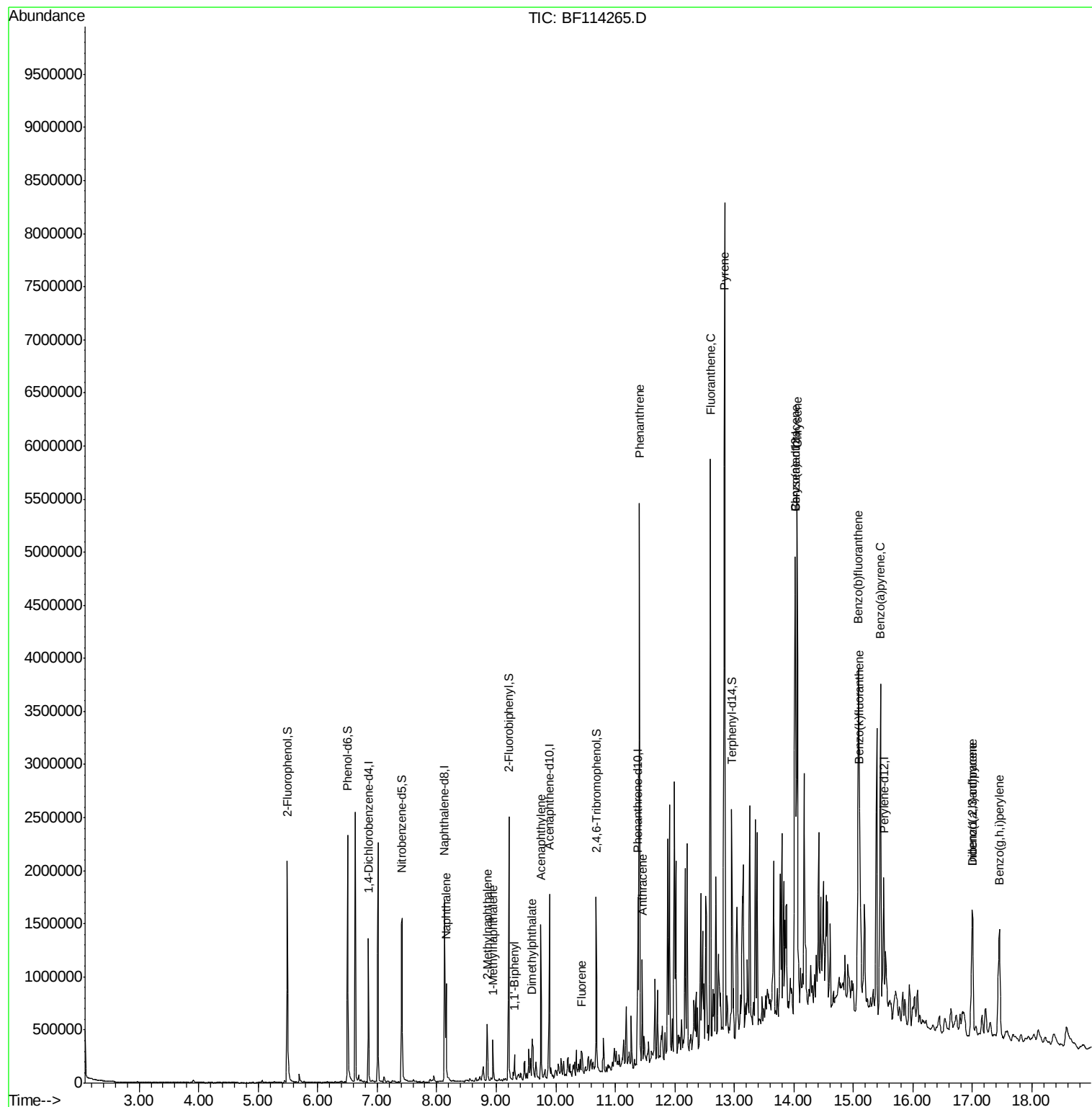
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051419\
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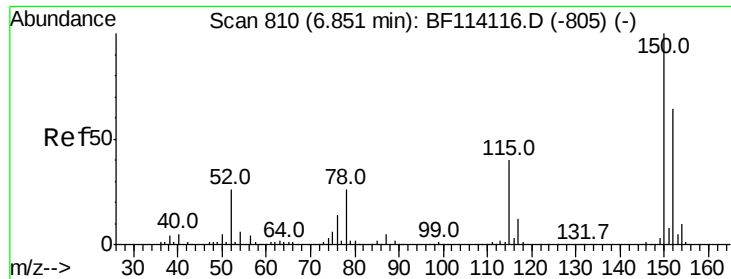
Instrument :
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P026-SS007-0002-01DL

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Quant Time: May 15 03:29:08 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

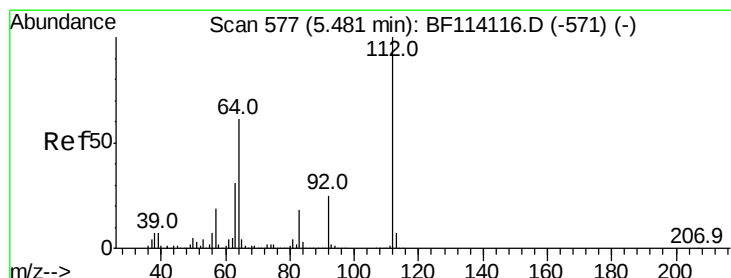
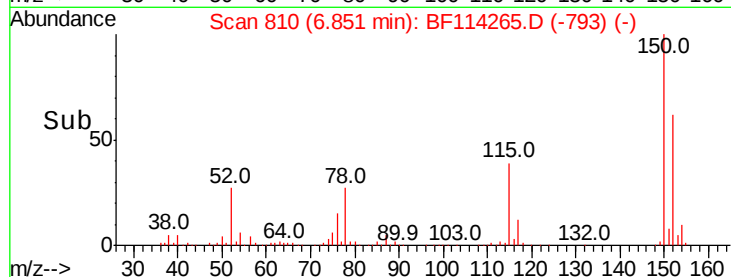
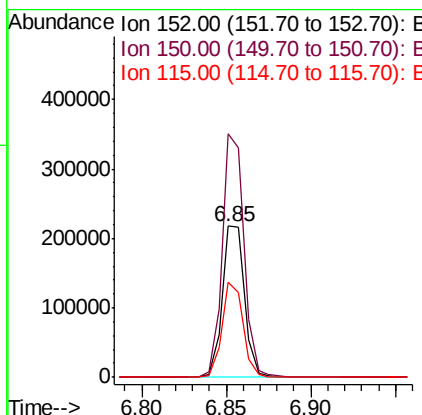
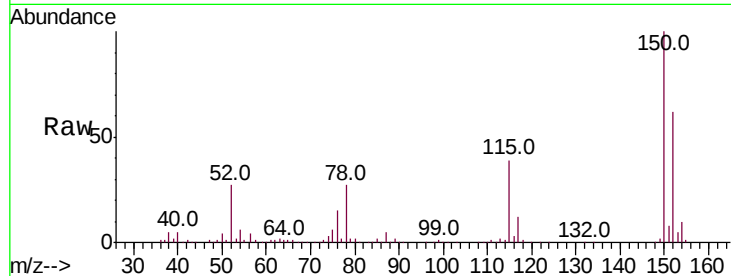
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Instrument :
BNA_F
ClientSampleId :
P026-SS007-0002-01DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.9	124.3	186.5
115	62.9	49.1	73.7

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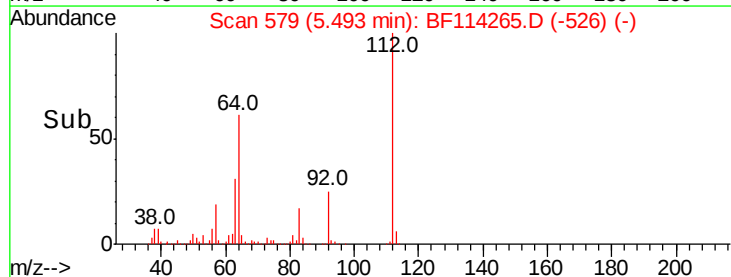
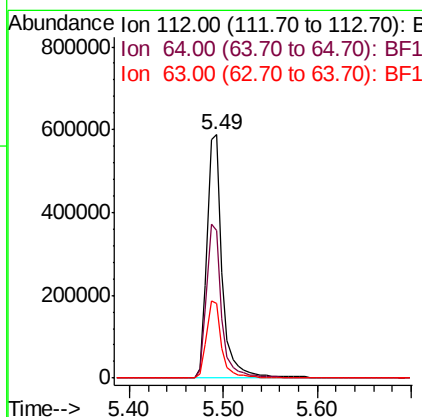
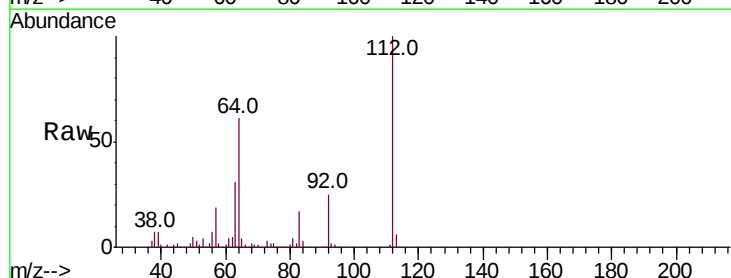
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#5

2-Fluorophenol
Concen: 54.661 ng
RT: 5.49 min Scan# 579
Delta R.T. 0.01 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.7	49.0	73.6
63	30.7	24.6	37.0





#7

Phenol-d6

Concen: 60.045 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

Lab File: BF114265.D

Acq: 14 May 2019 20:38

Instrument :

BNA_F

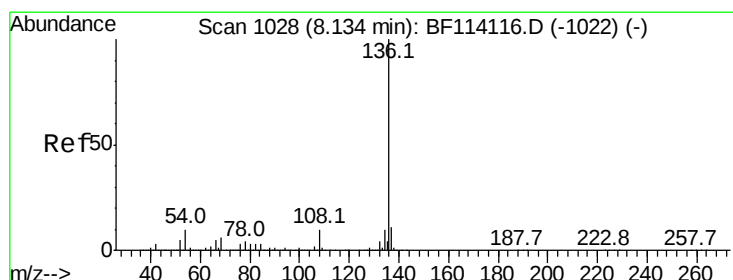
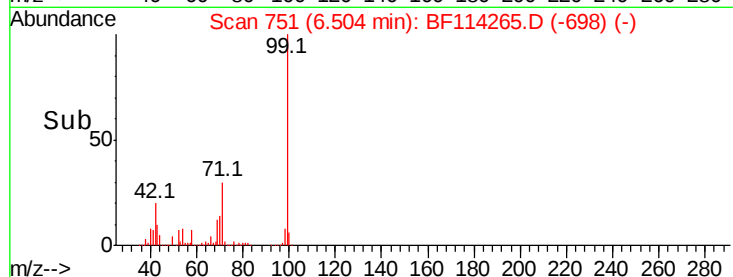
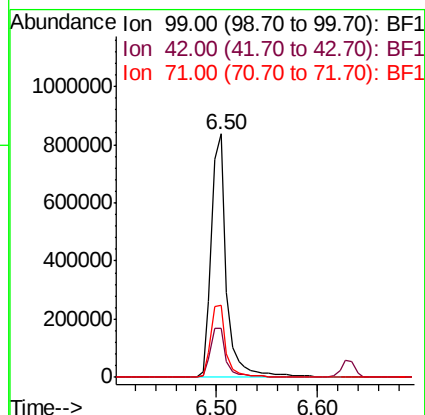
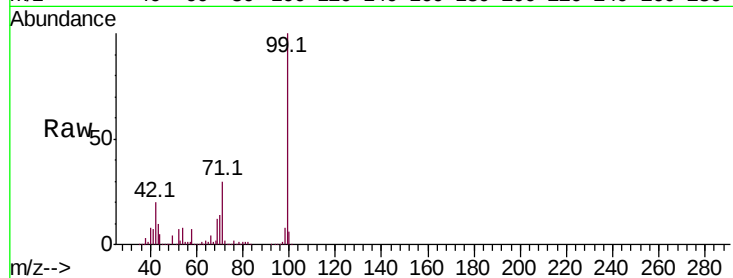
ClientSampleId :

P026-SS007-0002-01DL

Tot Ion:	99	Resp:	880831
Ion Ratio	Lower	Upper	
99	100		
42	20.3	17.9	26.9
71	29.7	26.2	39.2

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#21

Naphthalene-d8

Concen: 20.000 ng

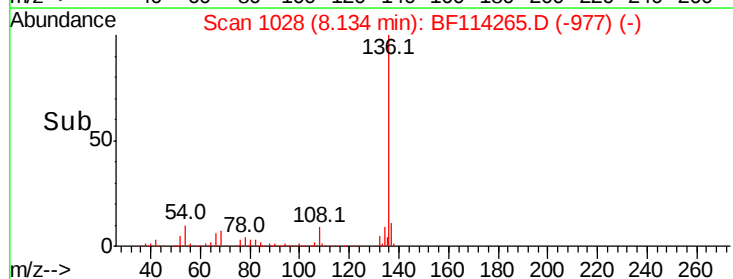
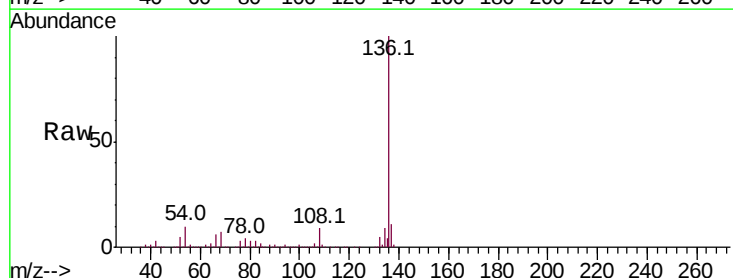
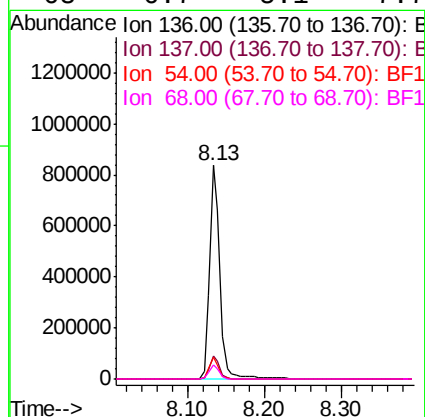
RT: 8.13 min Scan# 1028

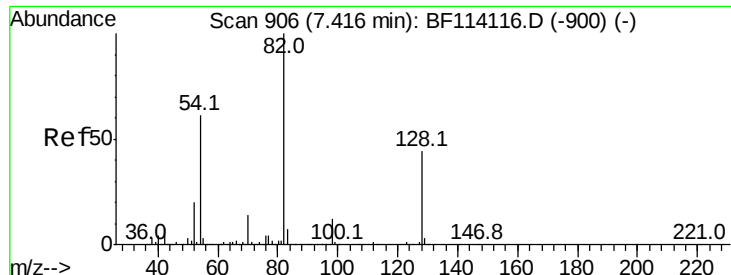
Delta R.T. -0.00 min

Lab File: BF114265.D

Acq: 14 May 2019 20:38

Tgt Ion:	136	Resp:	771188
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.8	13.2
54	10.1	7.8	11.8
68	6.7	5.1	7.7





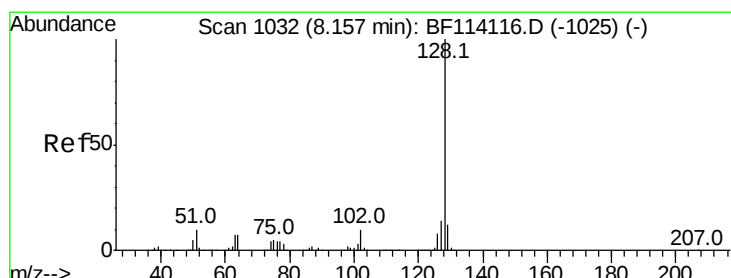
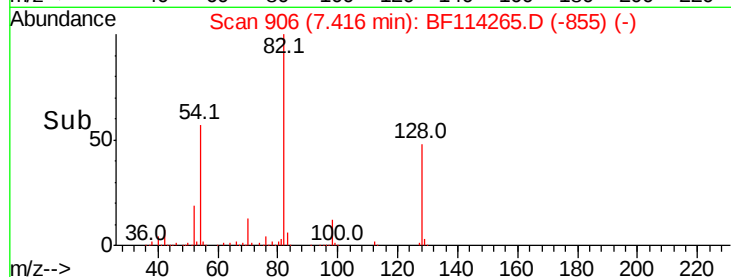
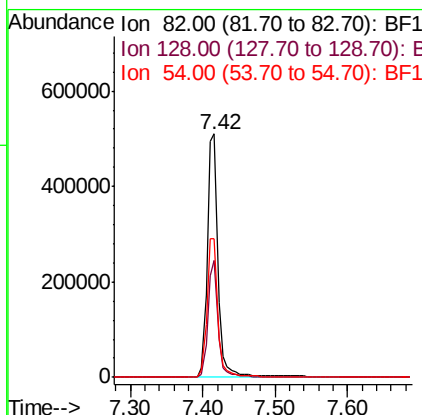
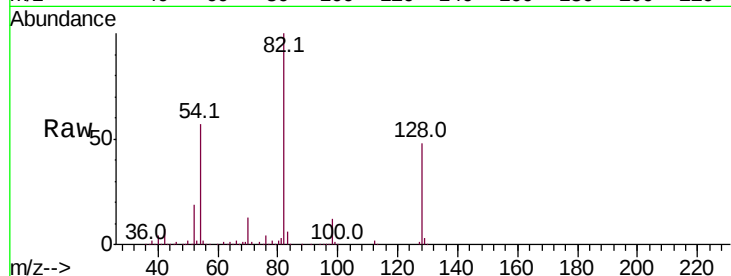
#23
Nitrobenzene-d5
Concen: 39.008 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.00 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Instrument :
BNA_F
ClientSampleId :
P026-SS007-0002-01DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.9	35.5	53.3
54	56.8	48.5	72.7

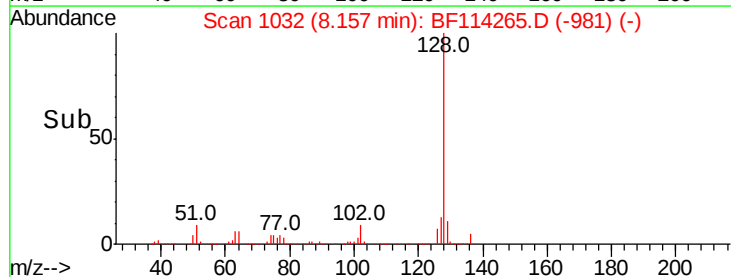
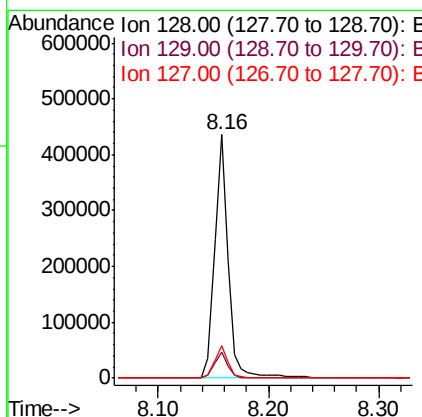
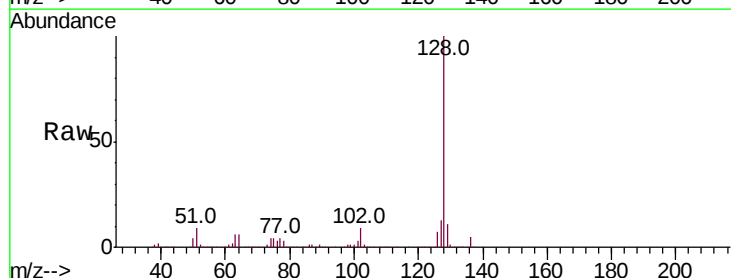
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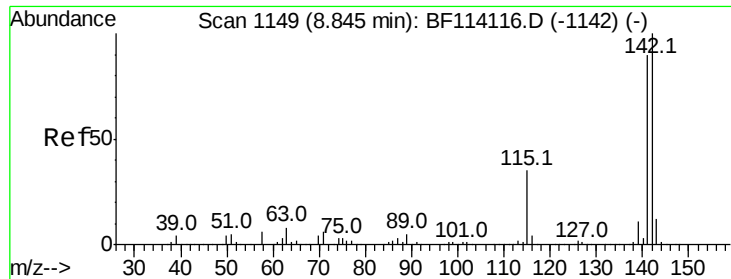
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#31
Naphthalene
Concen: 10.228 ng
RT: 8.16 min Scan# 1032
Delta R.T. 0.00 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.6	14.4
127	13.3	11.3	16.9





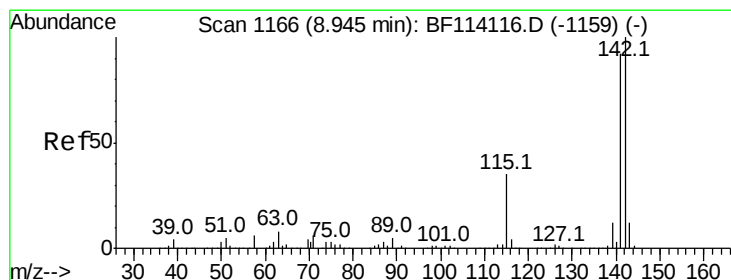
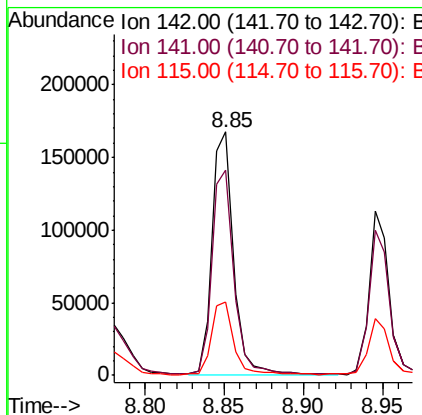
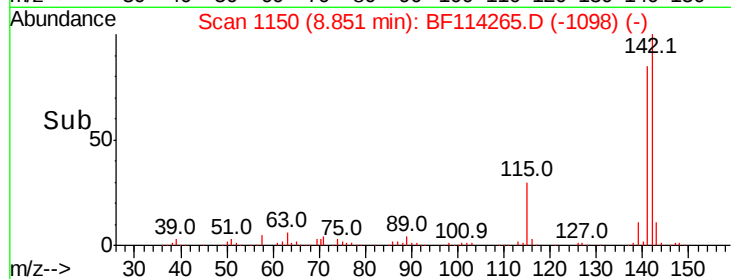
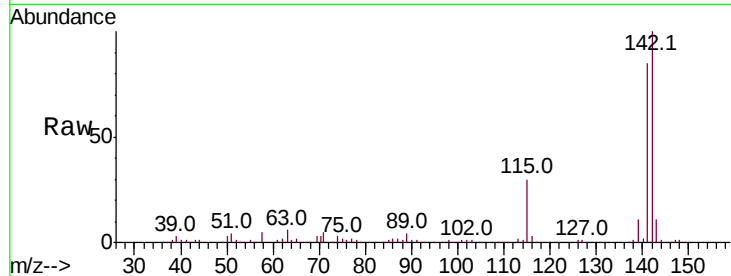
#37
2-Methylnaphthalene
Concen: 6.837 ng
RT: 8.85 min Scan# 1150
Delta R.T. 0.01 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Instrument :
BNA_F
ClientSampleId :
P026-SS007-0002-01DL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	158912		
141	84.5	72.1	108.1	
115	30.4	28.0	42.0	

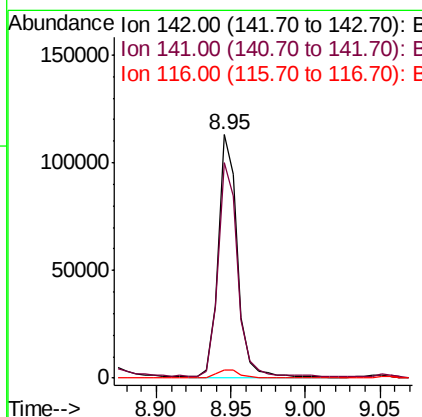
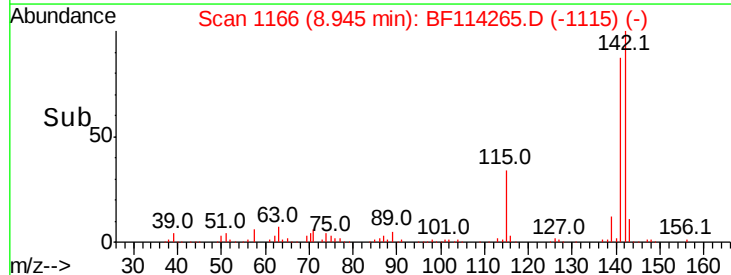
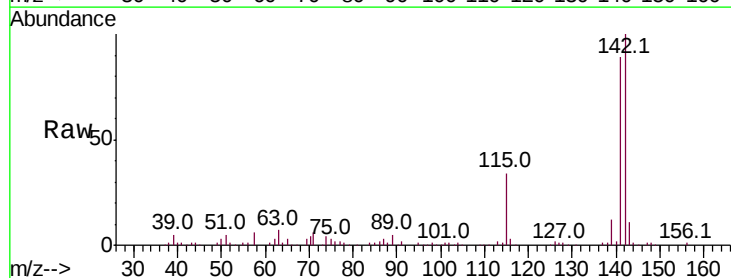
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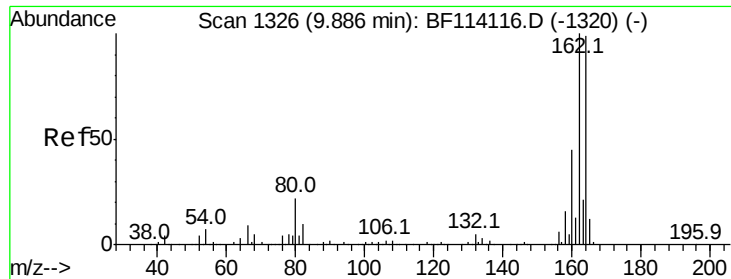
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#38
1-Methylnaphthalene
Concen: 4.661 ng
RT: 8.95 min Scan# 1166
Delta R.T. 0.00 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	102010		
141	88.7	73.4	110.0	
116	3.4	3.1	4.7	





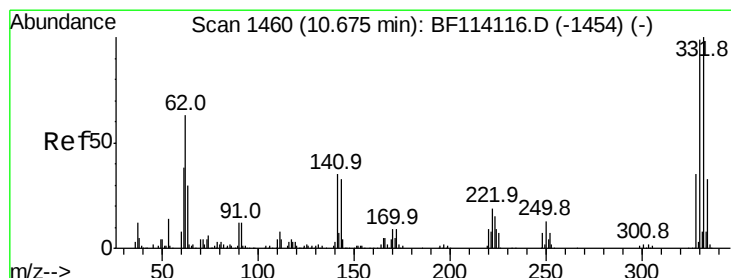
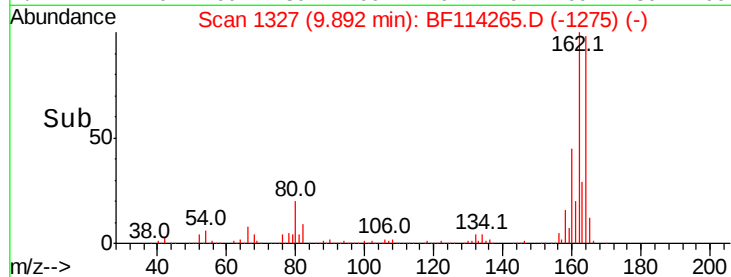
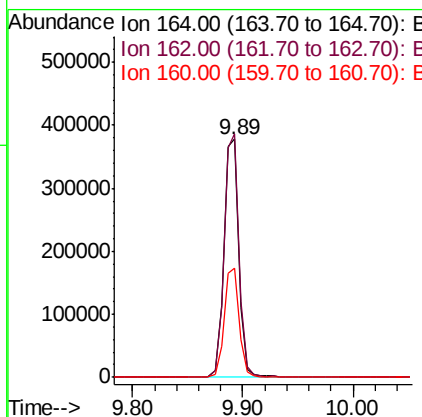
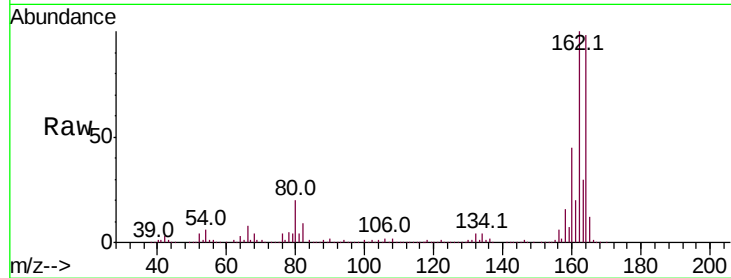
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.01 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Instrument :
BNA_F
ClientSampleId :
P026-SS007-0002-01DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.1	80.6	120.8	
160	45.9	36.5	54.7	

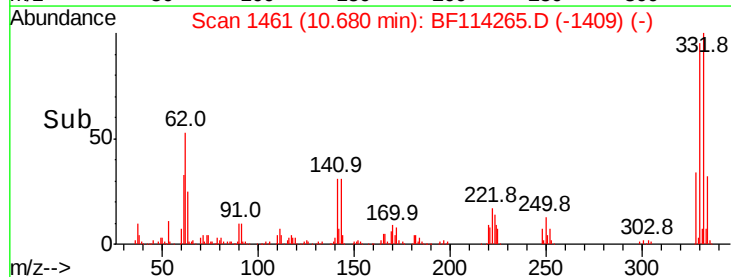
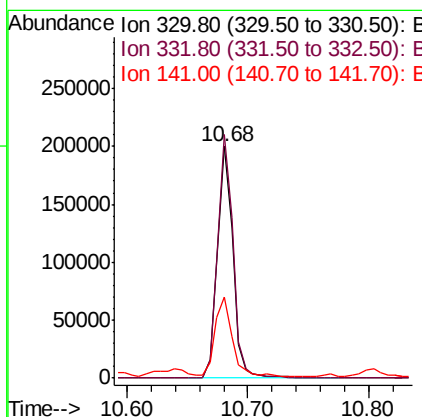
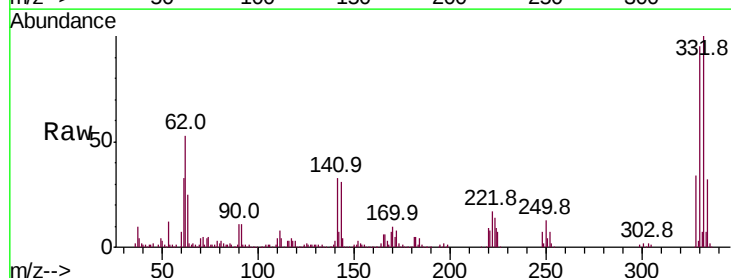
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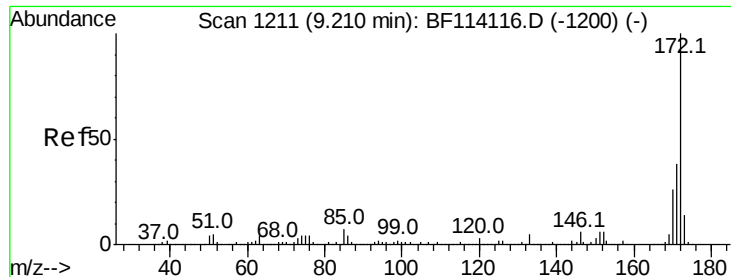
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#42
2,4,6-Tribromophenol
Concen: 47.733 ng
RT: 10.68 min Scan# 1461
Delta R.T. 0.01 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	104.4	81.4	122.2	
141	38.9	26.6	40.0	





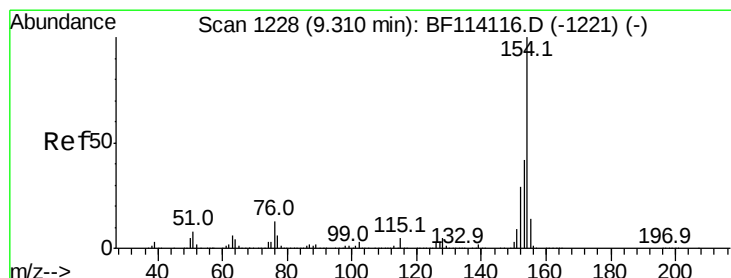
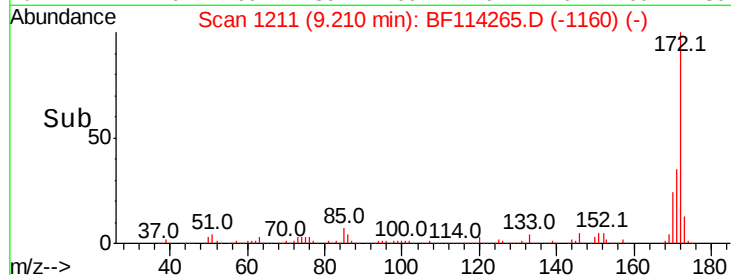
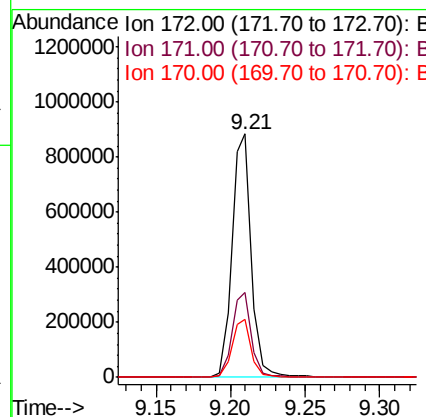
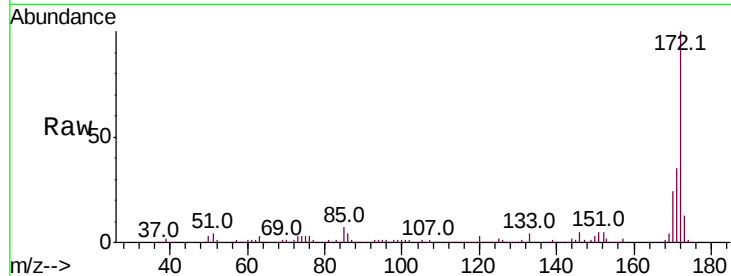
#45
2-Fluorobiphenyl
Concen: 34.538 ng
RT: 9.21 min Scan# 1211
Delta R.T. 0.00 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Instrument :
BNA_F
ClientSampleId :
P026-SS007-0002-01DL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	813594		
171	35.1		30.7	46.1
170	23.7		20.5	30.7

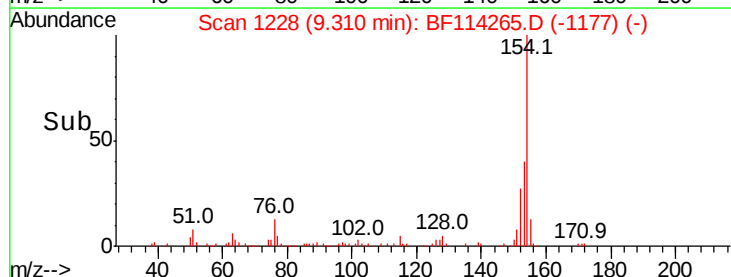
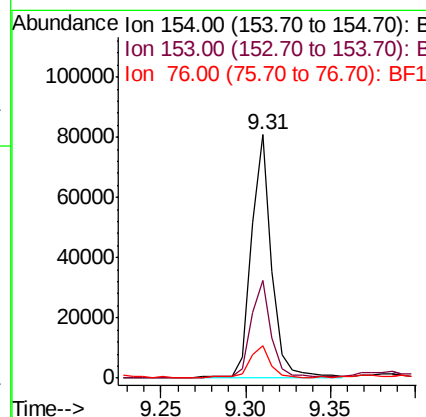
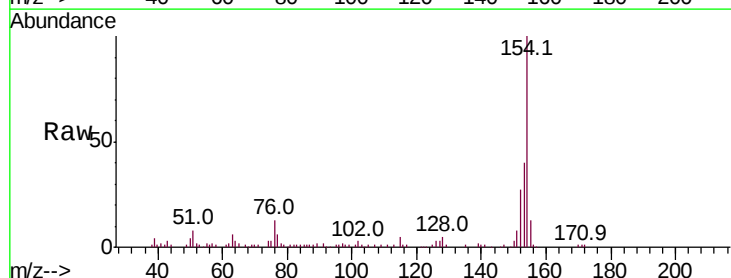
Manual Integrations
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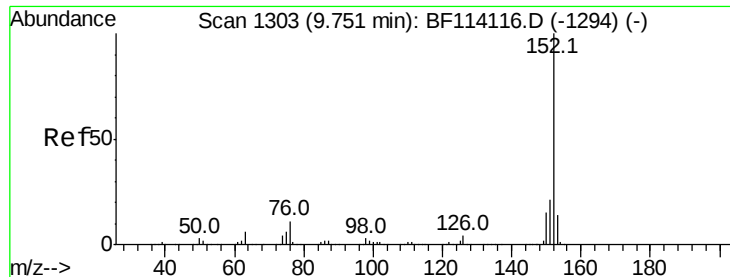
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#46
1,1'-Biphenyl
Concen: 2.376 ng
RT: 9.31 min Scan# 1228
Delta R.T. 0.00 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	68404		
153	40.1		21.9	61.9
76	13.5		0.0	32.8





#49

Acenaphthylene

Concen: 15.924 ng

RT: 9.75 min Scan# 1303

Delta R.T. 0.00 min

Lab File: BF114265.D

Acq: 14 May 2019 20:38

Instrument :

BNA_F

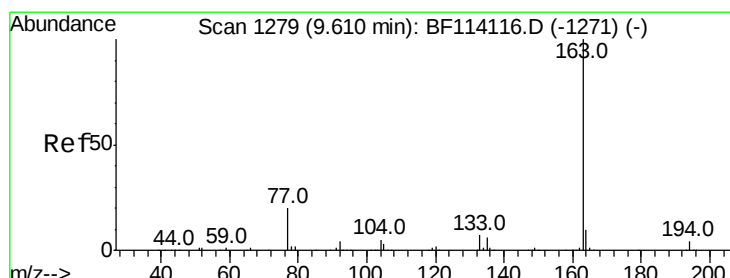
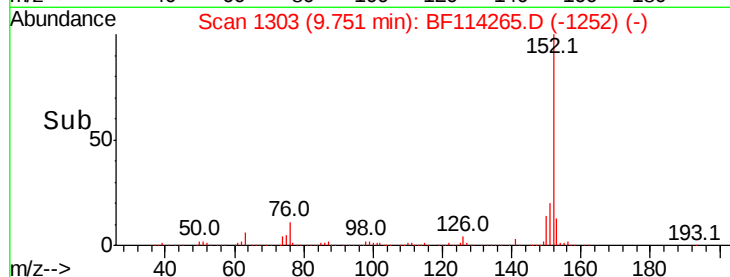
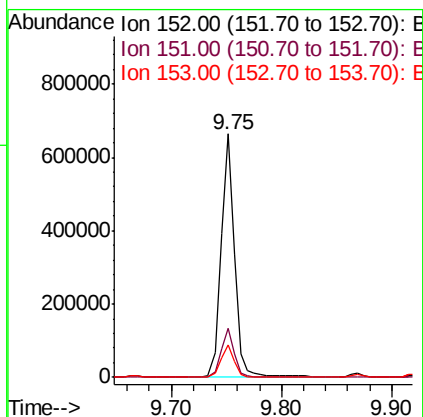
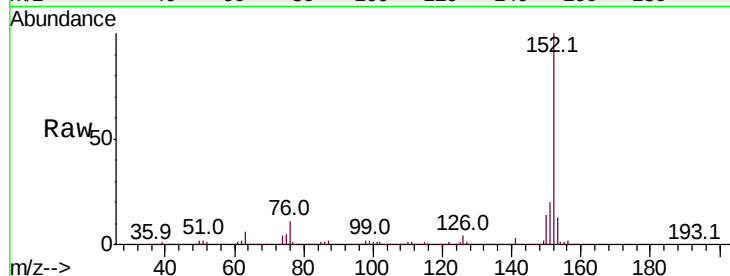
ClientSampleId :

P026-SS007-0002-01DL

Tot Ion:	152	Resp:	561084
Ion Ratio	Lower	Upper	
152	100		
151	20.4	16.8	25.2
153	13.5	11.4	17.2

Manual Integrations
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#50

Dimethylphthalate

Concen: 5.223 ng

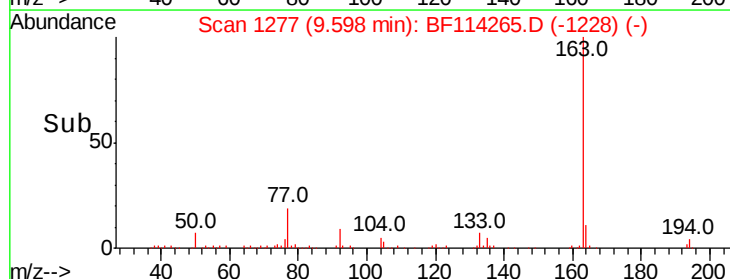
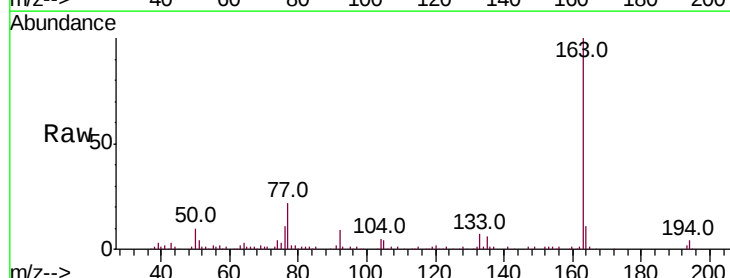
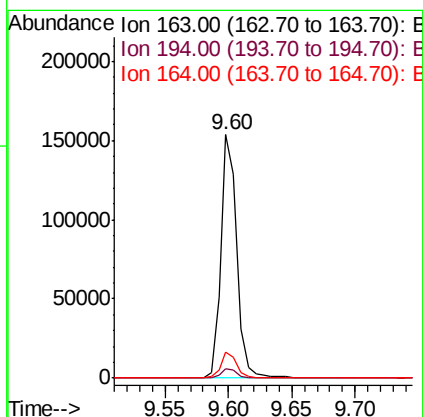
RT: 9.60 min Scan# 1277

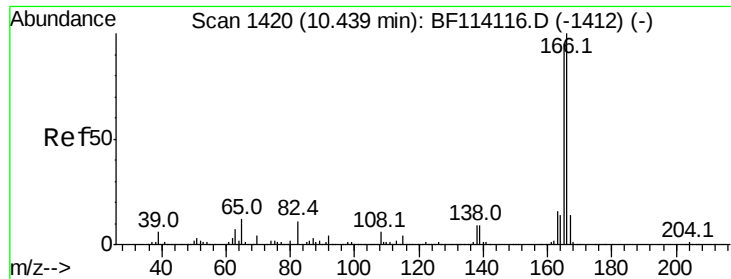
Delta R.T. -0.01 min

Lab File: BF114265.D

Acq: 14 May 2019 20:38

Tgt Ion:	163	Resp:	136617
Ion Ratio	Lower	Upper	
163	100		
194	4.0	3.4	5.0
164	10.7	8.2	12.2





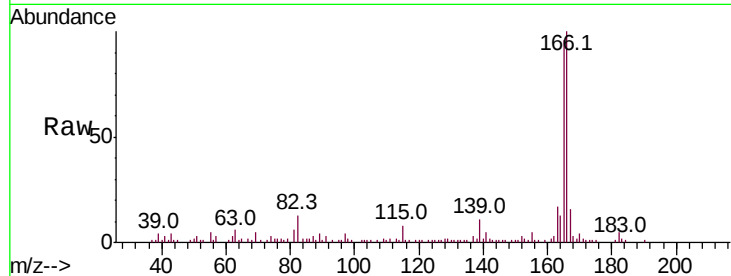
#58
Fluorene
 Concen: 3.359 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.00 min
 Lab File: BF114265.D
 Acq: 14 May 2019 20:38

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS007-0002-01DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.3	76.1	114.1
167	15.7	11.1	16.7

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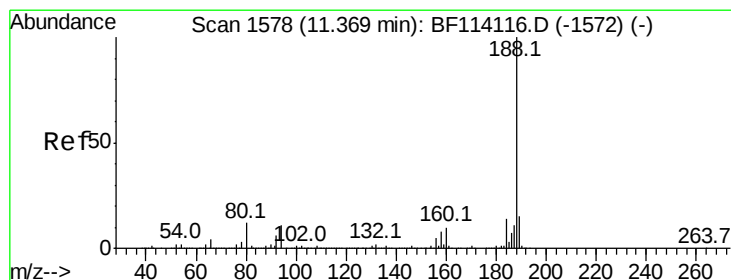
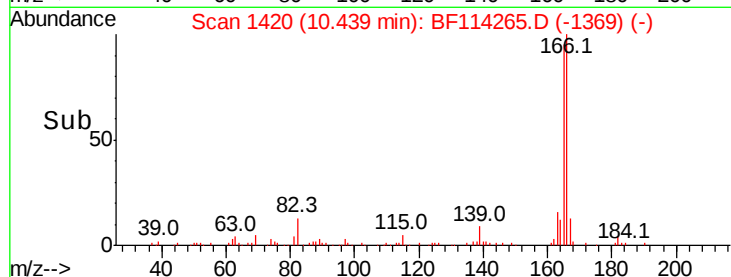
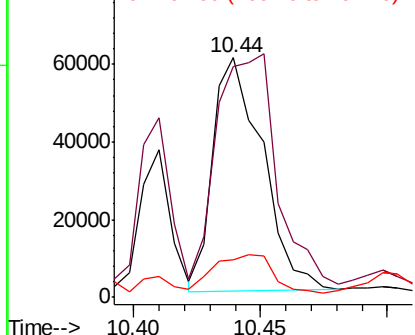


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. 0.01 min
 Lab File: BF114265.D
 Acq: 14 May 2019 20:38

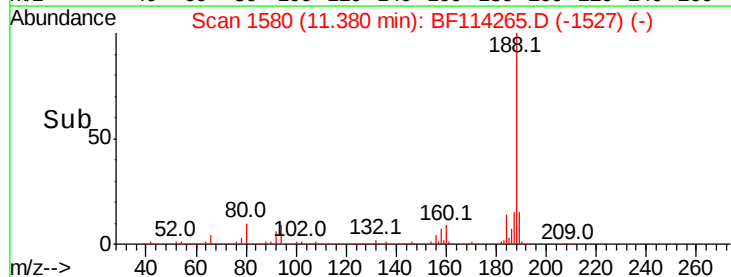
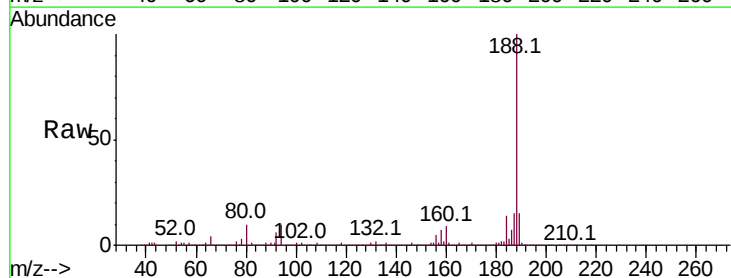
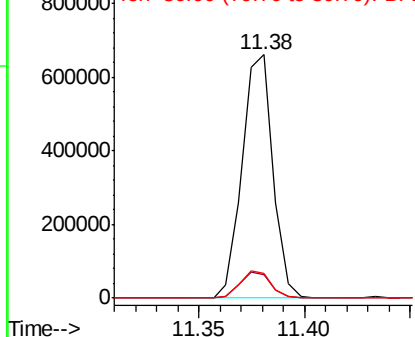
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.4	12.6
80	10.1	9.2	13.8

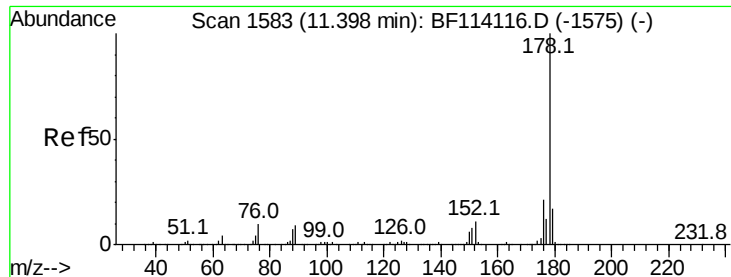
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





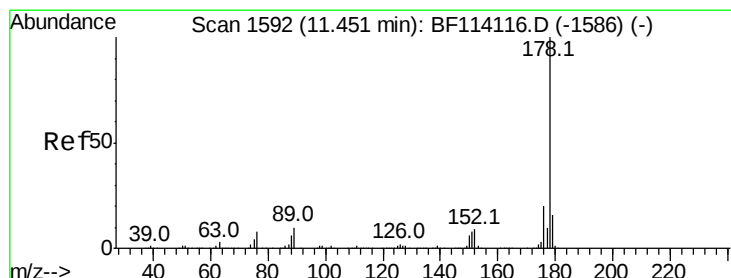
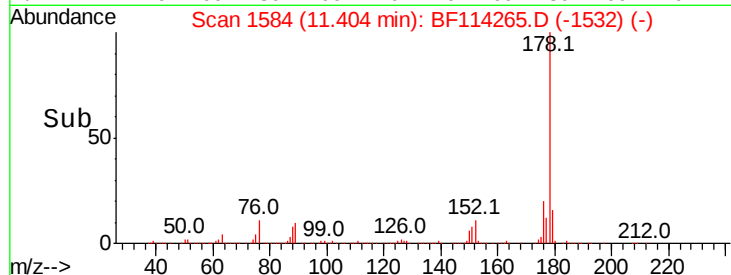
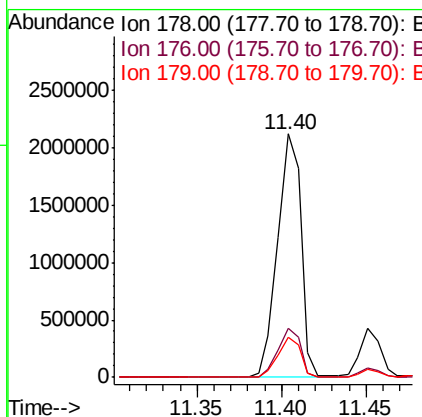
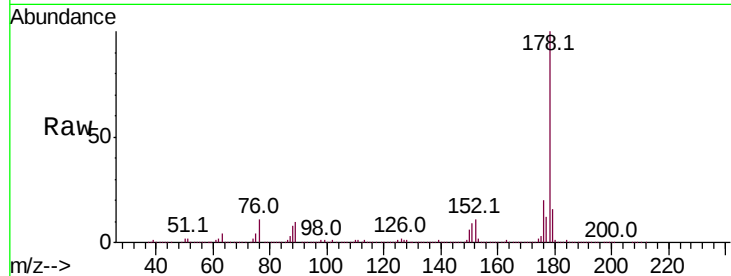
#71
Phenanthrene
Concen: 63.420 ng
RT: 11.40 min Scan# 1584
Delta R.T. 0.01 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Instrument :
BNA_F
ClientSampleId :
P026-SS007-0002-01DL

Tot Ion:178 Resp: 2051474
Ion Ratio Lower Upper
178 100
176 20.0 16.4 24.6
179 16.3 13.2 19.8

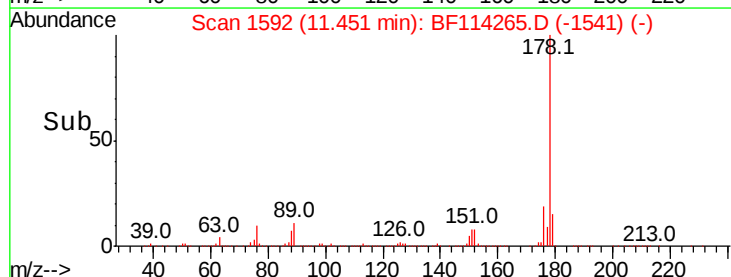
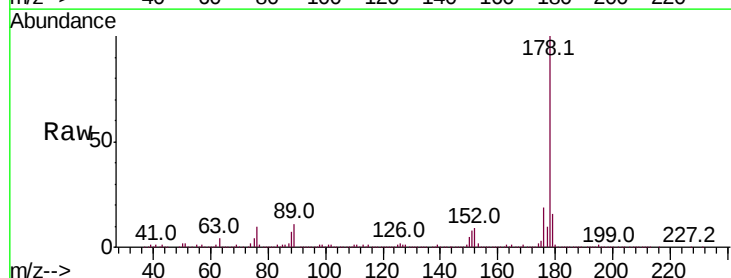
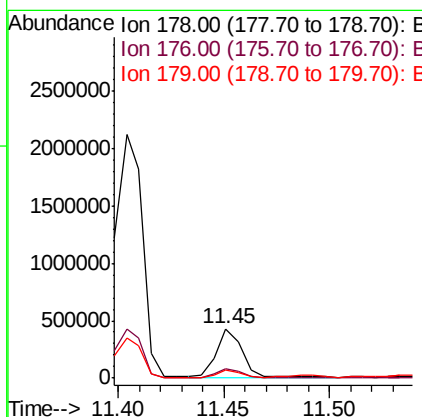
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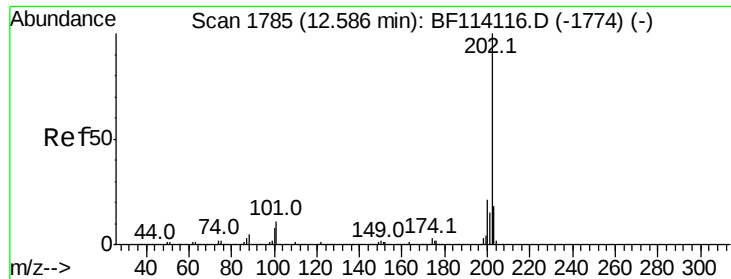
mohammad
5/16/2019 9:10:16 AM



#72
Anthracene
Concen: 11.367 ng
RT: 11.45 min Scan# 1592
Delta R.T. -0.00 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Tgt Ion:178 Resp: 369323
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.8
179 15.8 13.0 19.4





#75

Fluoranthene

Concen: 73.947 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.02 min

Lab File: BF114265.D

Acq: 14 May 2019 20:38

Instrument :

BNA_F

ClientSampleId :

P026-SS007-0002-01DL

Tot Ion:202 Resp: 2575850

Ion Ratio Lower Upper

202 100

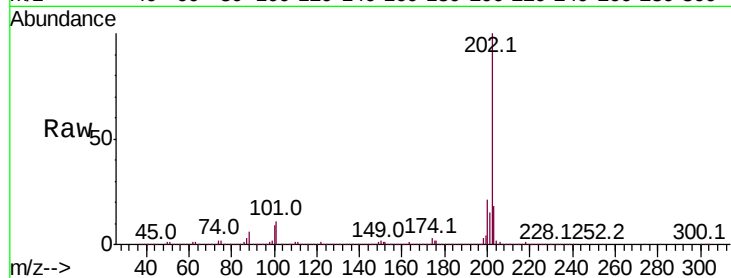
101 11.4 0.0 31.0

203 18.3 0.0 38.4

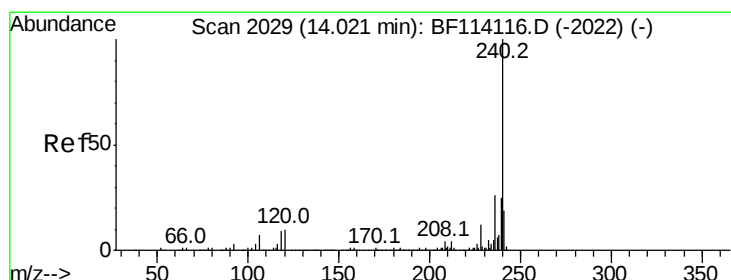
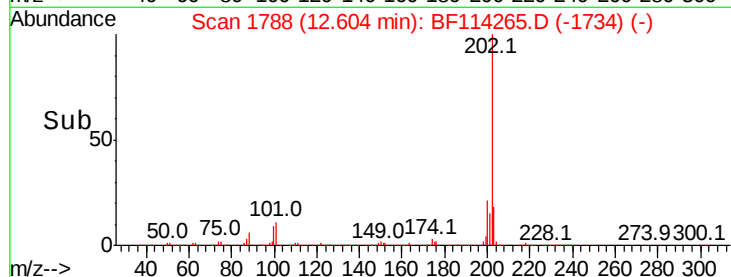
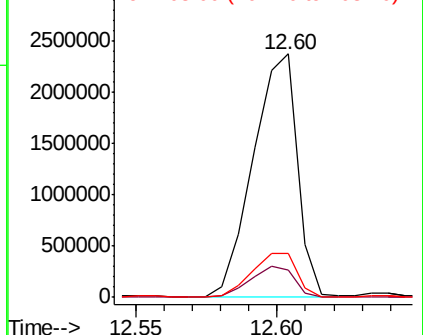
Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. 0.01 min

Lab File: BF114265.D

Acq: 14 May 2019 20:38

Tgt Ion:240 Resp: 499867

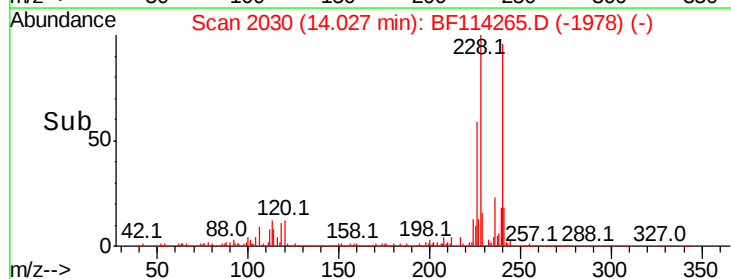
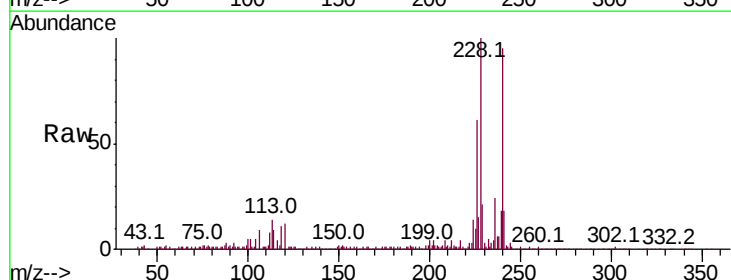
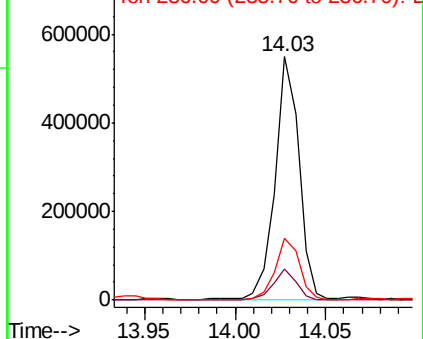
Ion Ratio Lower Upper

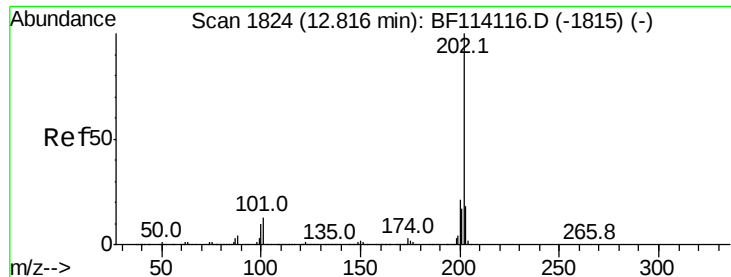
240 100

120 12.6 8.3 12.5#

236 25.6 20.8 31.2

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





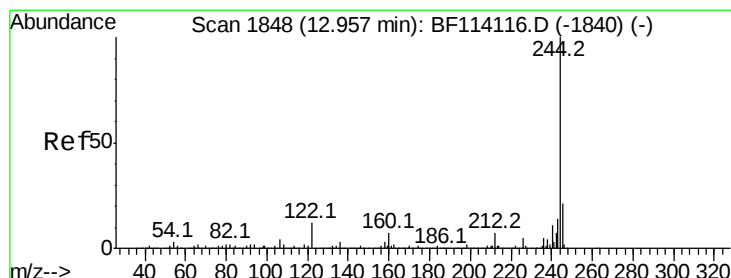
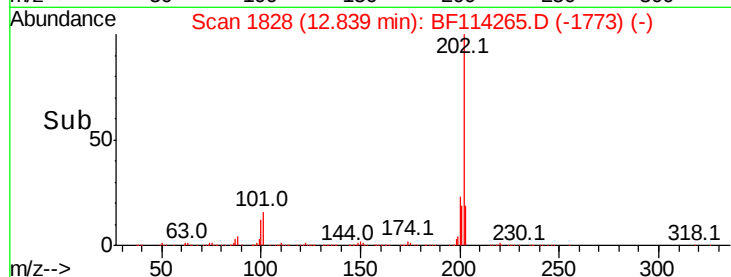
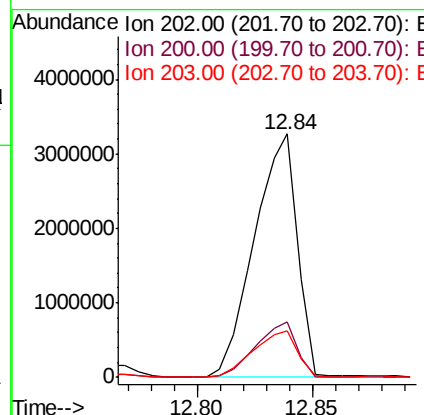
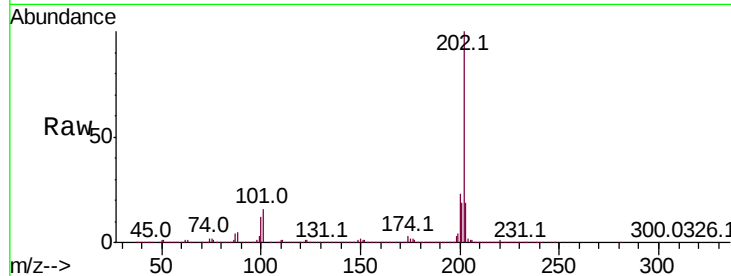
#78
Pvrene
Concen: 104.752 ng
RT: 12.84 min Scan# 1828
Delta R.T. 0.02 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Instrument :
BNA_F
ClientSampleId :
P026-SS007-0002-01DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.6	16.9	25.3
203	19.4	14.5	21.7

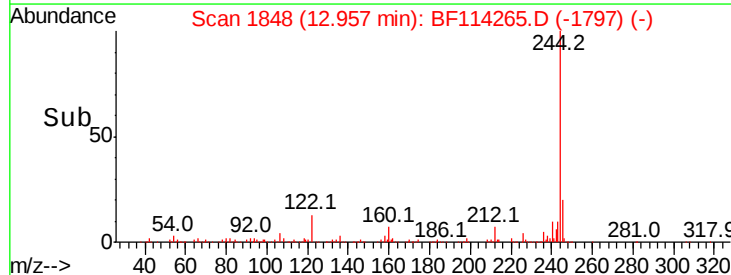
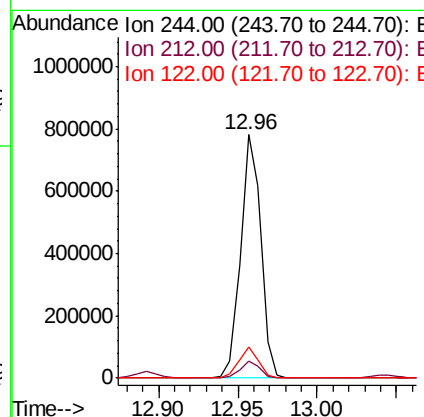
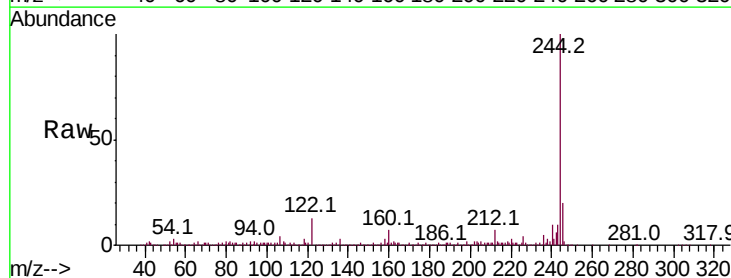
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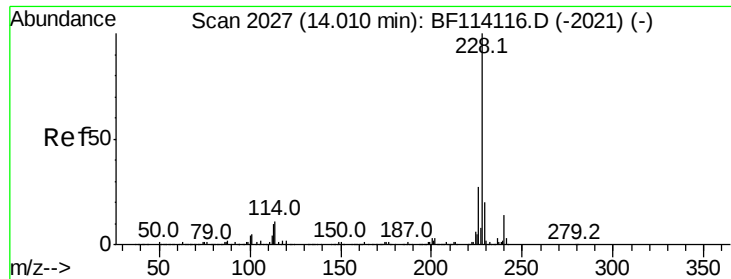
mohammad
5/16/2019 9:10:16 AM



#79
Terphenyl-d14
Concen: 28.411 ng
RT: 12.96 min Scan# 1848
Delta R.T. -0.00 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.8	8.6
122	12.8	9.4	14.2





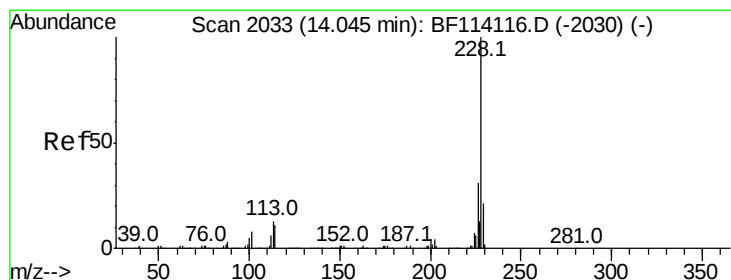
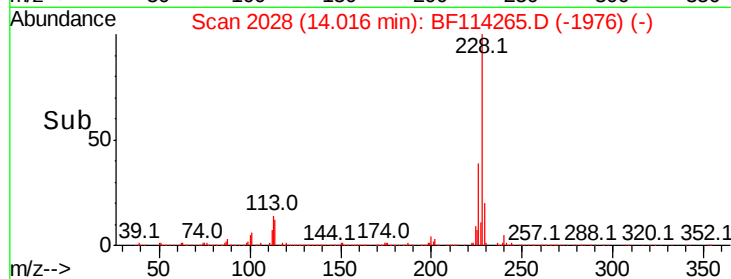
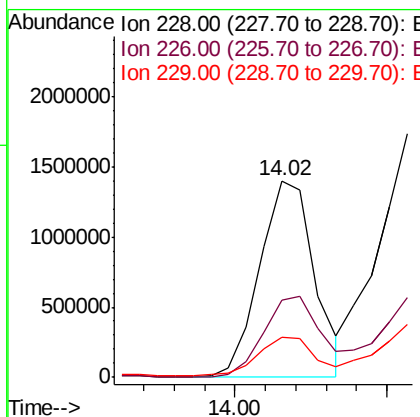
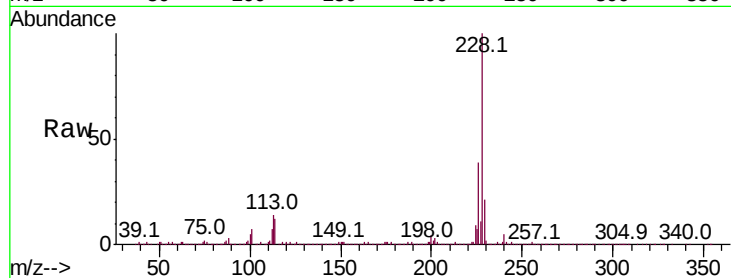
#81
Benzo(a)anthracene
Concen: 54.365 ng m
RT: 14.02 min Scan# 2028
Delta R.T. 0.01 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Instrument :
BNA_F
ClientSampleId :
P026-SS007-0002-01DL

Tot Ion:228 Resp: 1757698
Ion Ratio Lower Upper
228 100
226 39.0 22.2 33.2#
229 20.6 16.4 24.6

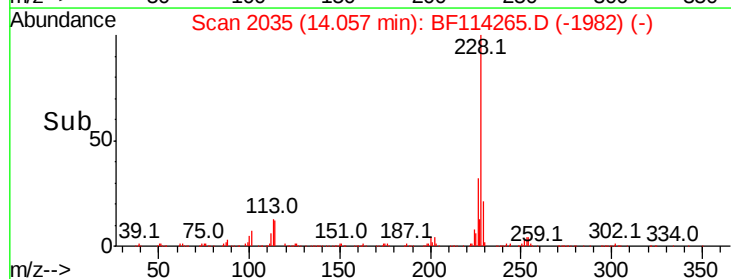
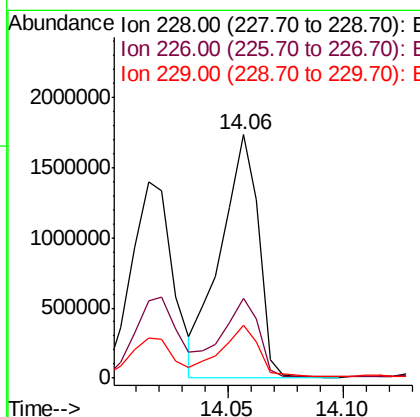
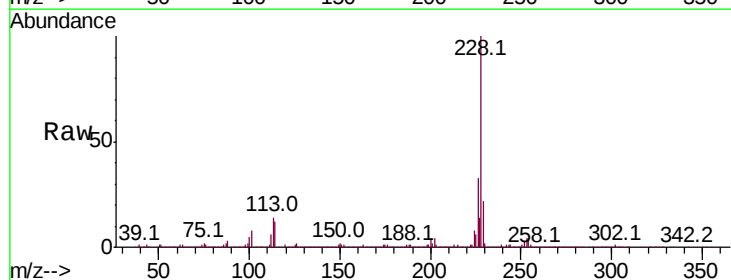
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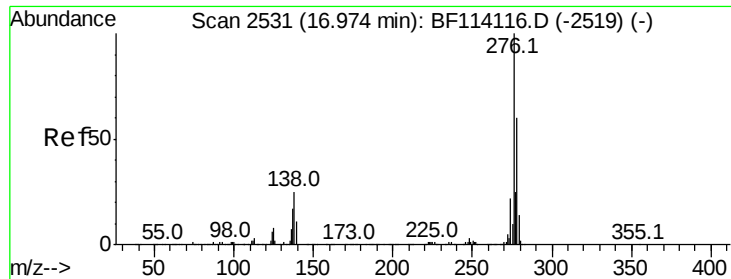
mohammad
5/16/2019 9:10:16 AM



#83
Chrysene
Concen: 62.076 ng
RT: 14.06 min Scan# 2035
Delta R.T. 0.01 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Tgt Ion:228 Resp: 1967399
Ion Ratio Lower Upper
228 100
226 32.6 25.0 37.6
229 21.6 17.0 25.6





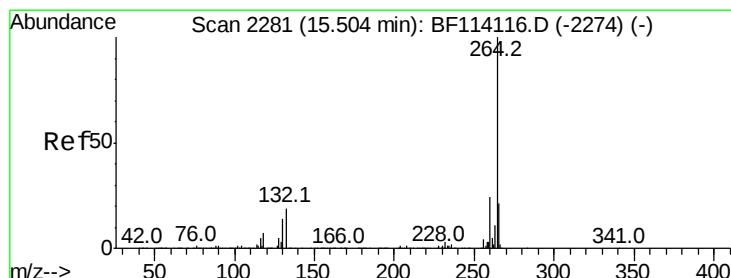
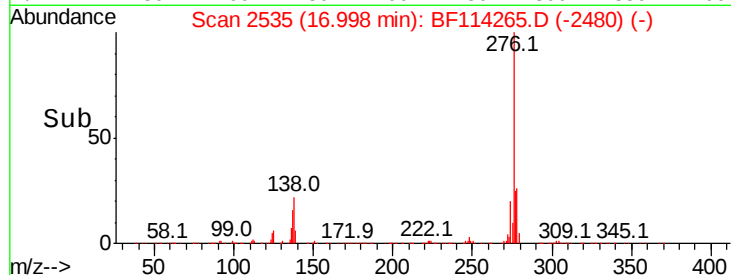
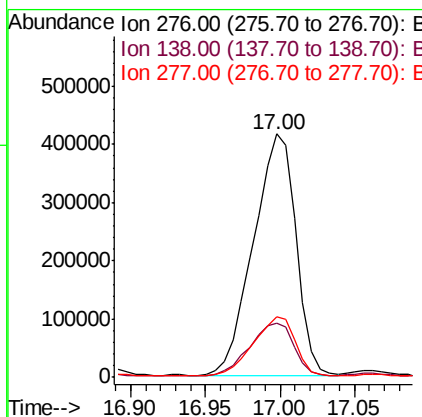
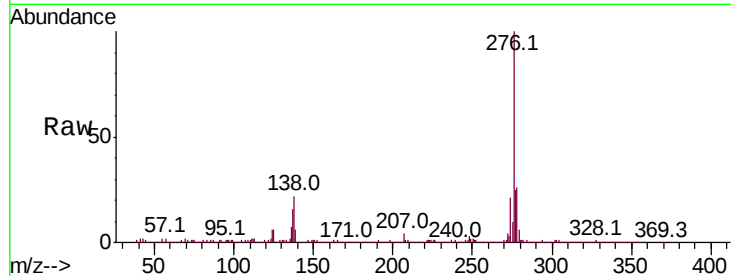
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 29.215 ng
 RT: 17.00 min Scan# 2535
 Delta R.T. 0.02 min
 Lab File: BF114265.D
 Acq: 14 May 2019 20:38

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS007-0002-01DL

Tot Ion:	276	Resp:	818321
Ion Ratio	Lower	Upper	
276	100		
138	22.6	20.2	30.2
277	24.3	20.0	30.0

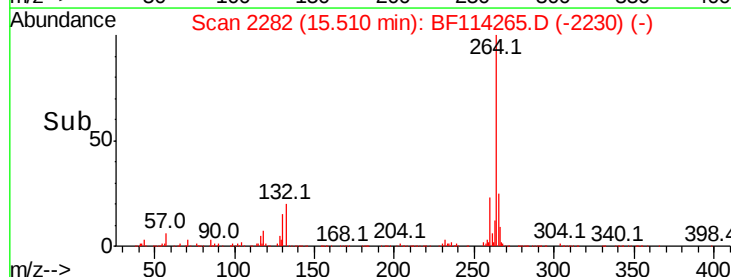
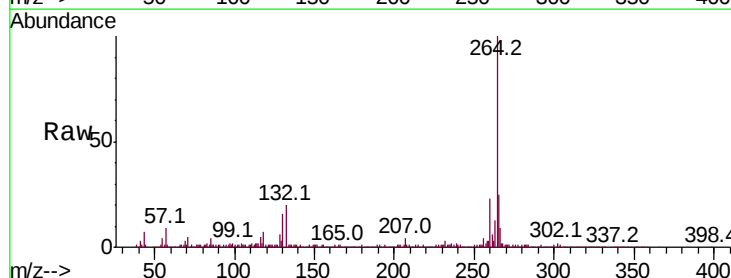
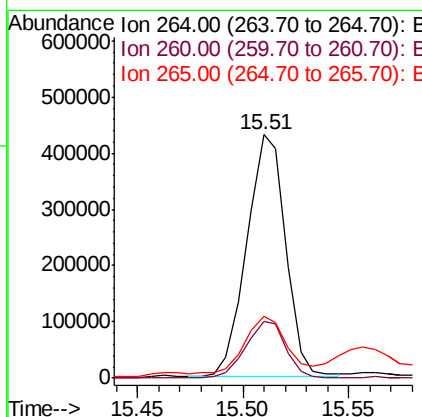
Manual Integrations
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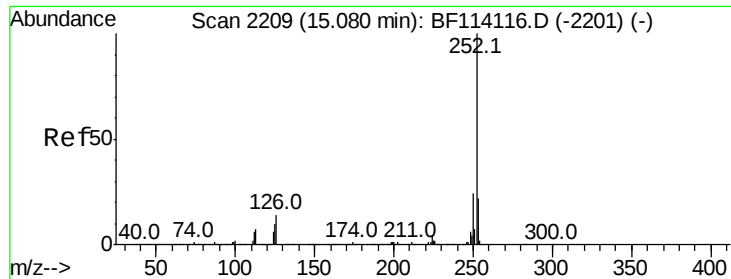
mohammad
 5/16/2019 9:10:16 AM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.51 min Scan# 2282
 Delta R.T. 0.01 min
 Lab File: BF114265.D
 Acq: 14 May 2019 20:38

Tgt Ion:	264	Resp:	549447
Ion Ratio	Lower	Upper	
264	100		
260	23.5	19.4	29.0
265	25.3	16.9	25.3#





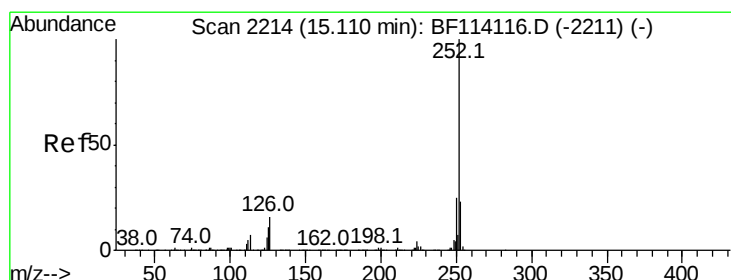
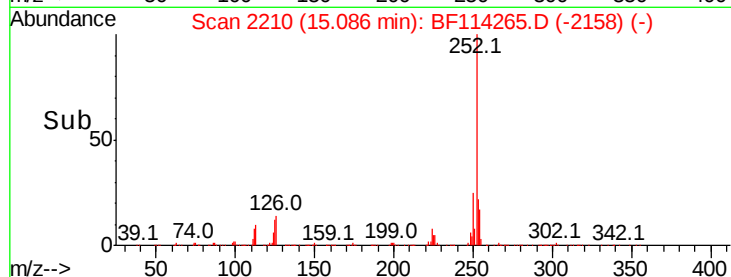
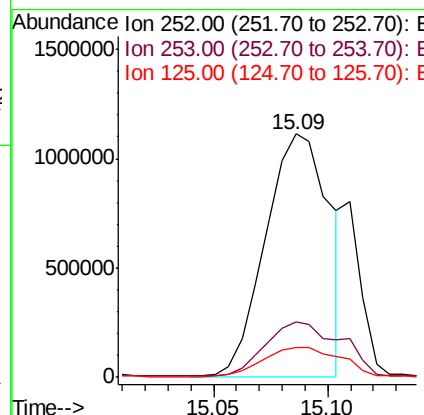
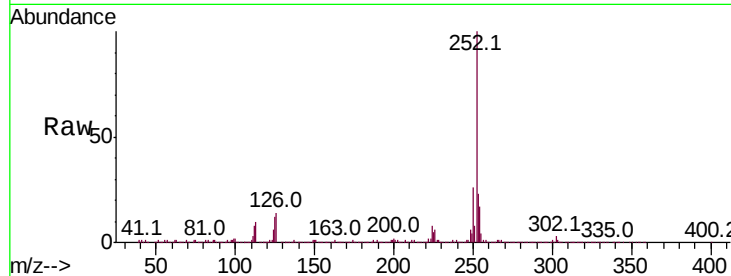
#88
Benzo(b)fluoranthene
Concen: 61.788 ng m
RT: 15.09 min Scan# 2210
Delta R.T. 0.01 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Instrument :
BNA_F
ClientSampleId :
P026-SS007-0002-01DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.8
125	12.3	8.3	12.5

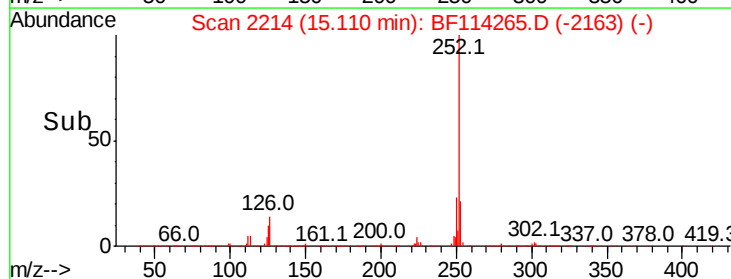
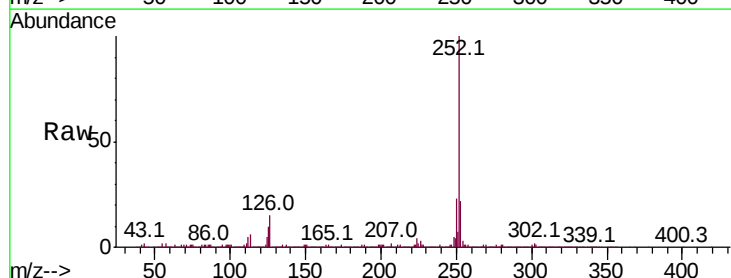
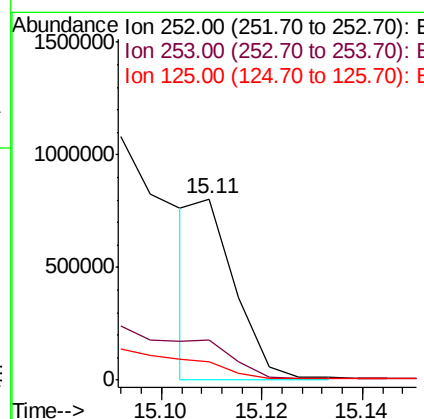
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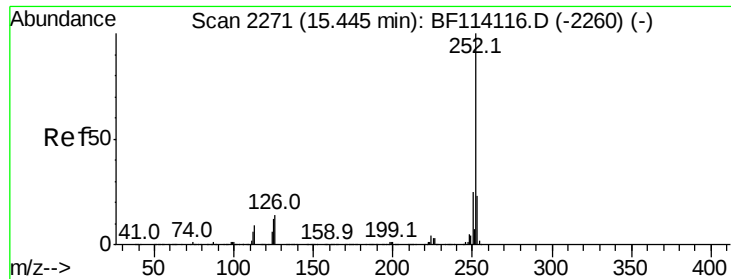
mohammad
5/16/2019 9:10:16 AM



#89
Benzo(k)fluoranthene
Concen: 13.677 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.00 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.2	27.2
125	10.2	8.6	13.0





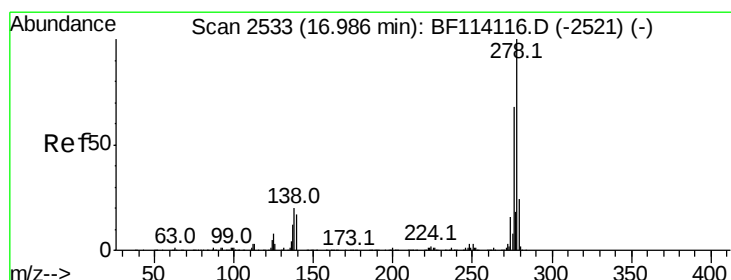
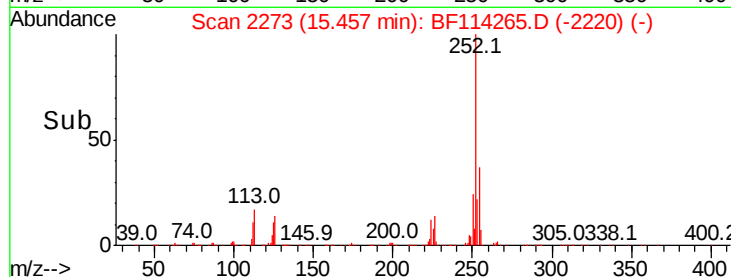
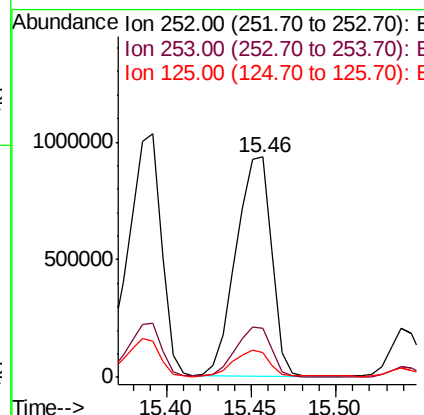
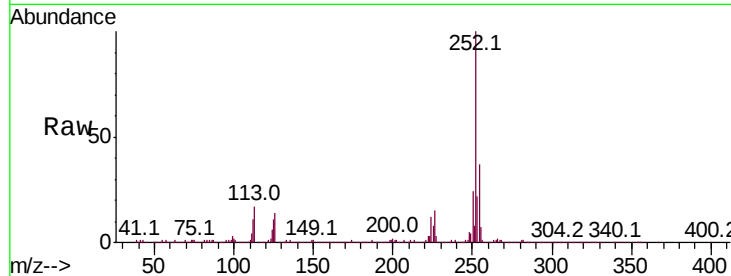
#90
Benzo(a)pyrene
Concen: 44.444 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.01 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Instrument :
BNA_F
ClientSampleId :
P026-SS007-0002-01DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.1	27.1
125	11.1	9.5	14.3

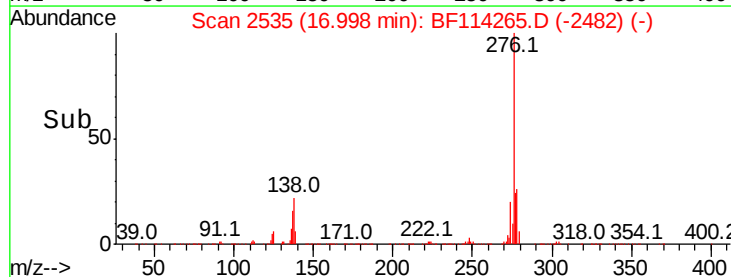
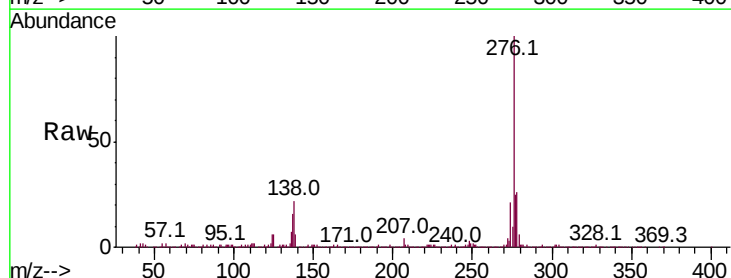
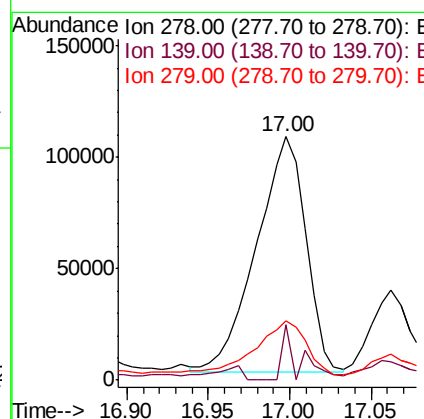
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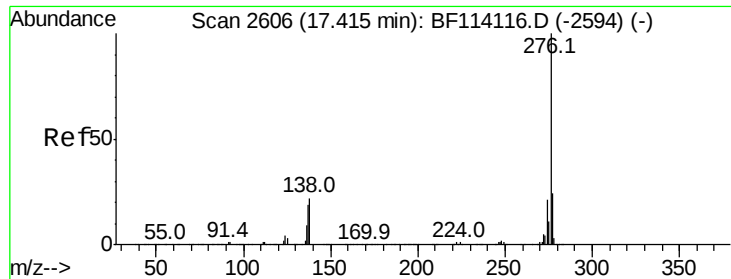
mohammad
5/16/2019 9:10:16 AM



#91
Dibenzo(a,h)anthracene
Concen: 8.755 ng m
RT: 17.00 min Scan# 2535
Delta R.T. 0.01 min
Lab File: BF114265.D
Acq: 14 May 2019 20:38

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.8	13.5	20.3#
279	24.3	19.0	28.6





#92
 Benzo(a,h,i)perylene
 Concen: 35.969 ng
 RT: 17.45 min Scan# 2612
 Delta R.T. 0.04 min
 Lab File: BF114265.D
 Acq: 14 May 2019 20:38

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS007-0002-01DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.0	28.4
138	23.8	17.8	26.6

Manual Integrations
 APPROVED

mohammad
 5/16/2019 9:10:16 AM

