

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
 Data File : BF114366.D
 Acq On : 17 May 2019 23:23
 Operator : JU/SJ
 Sample : K2894-12
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-08-0-1

Manual Integrations
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Quant Time: May 18 09:02:06 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	181727	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	699054	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	337103	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	688587	20.00	ng	0.00
76) Chrysene-d12	14.02	240	462362	20.00	ng	0.00
87) Perylene-d12	15.49	264	461899	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	1097487	97.19	ng	0.00
7) Phenol-d6	6.49	99	1458947	109.23	ng	0.00
23) Nitrobenzene-d5	7.40	82	876112	70.33	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	351762	100.93	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	1490150	66.87	ng	-0.01
79) Terphenyl-d14	12.95	244	1480458	66.01	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.15	128	314870	9.643	ng	97
37) 2-Methylnaphthalene	8.84	142	71865	3.411	ng	98
38) 1-Methylnaphthalene	8.94	142	49203	2.480	ng	99
50) Dimethylphthalate	9.59	163	294063	11.883	ng	99
52) Acenaphthene	9.91	154	147569	7.214	ng	98
55) Dibenzofuran	10.09	168	183022	6.102	ng	95
58) Fluorene	10.43	166	175268	7.565	ng	99
71) Phenanthrene	11.40	178	2206827	65.874	ng	100
72) Anthracene	11.45	178	563799	16.756	ng	98
73) Carbazole	11.60	167	432925	13.492	ng	98
75) Fluoranthene	12.59	202	2896991	80.303	ng	97
78) Pyrene	12.82	202	2496416	67.117	ng	99
81) Benzo(a)anthracene	14.00	228	1467912	49.085	ng	98
83) Chrysene	14.04	228	1408929	48.061	ng	98
86) Indeno(1,2,3-cd)pyrene	16.97	276	398895	15.396	ng	98
88) Benzo(b)fluoranthene	15.06	252	1561477m	52.767	ng	
89) Benzo(k)fluoranthene	15.09	252	503979m	18.540	ng	
90) Benzo(a)pyrene	15.43	252	937271	35.989	ng	98
91) Dibenzo(a,h)anthracene	16.97	278	124372m	5.747	ng	
92) Benzo(g,h,i)perylene	17.42	276	331261	15.274	ng	97

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

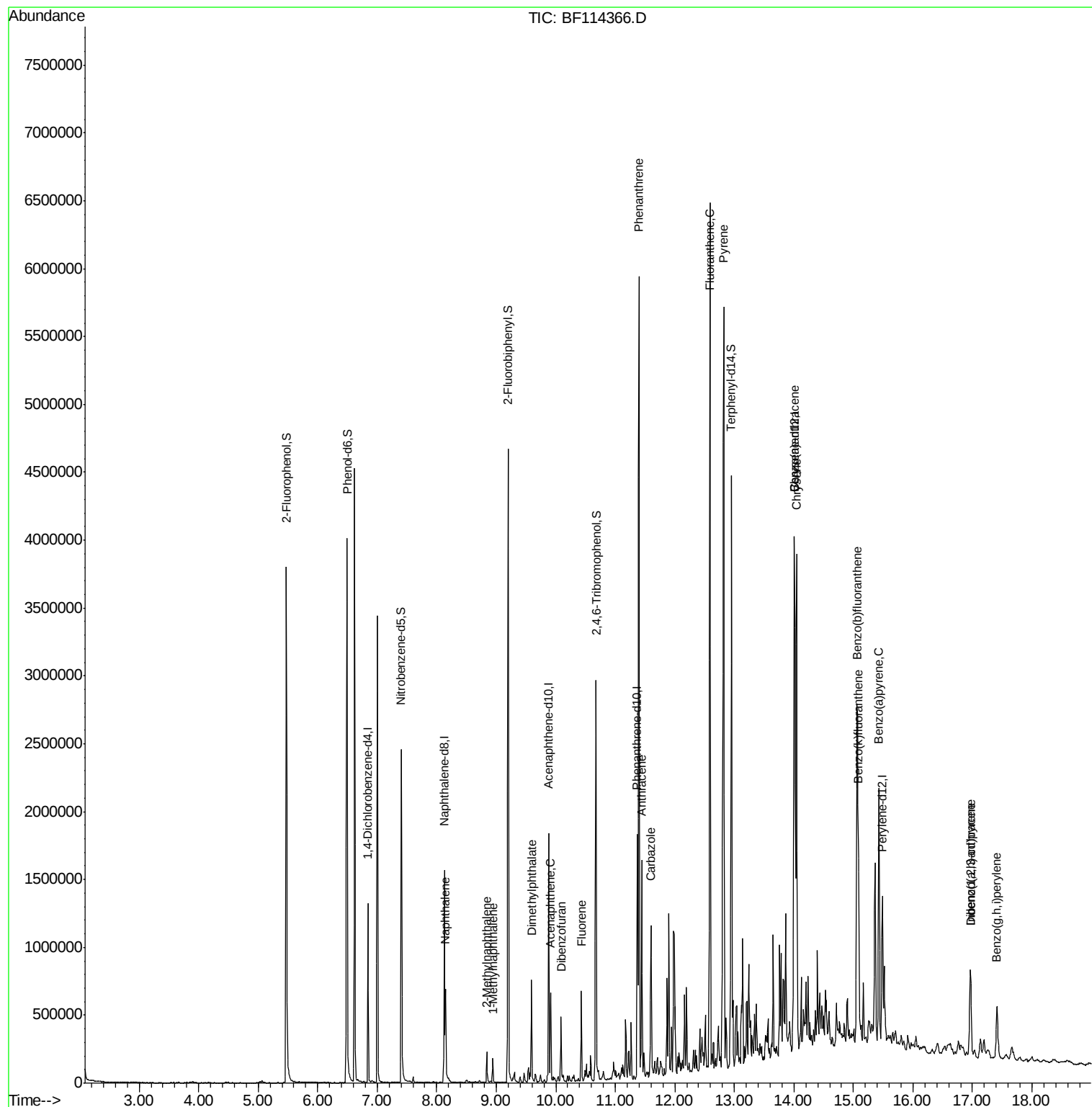
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
Data File : BF114366.D
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ALS Vial : 26 Sample Multiplier: 1

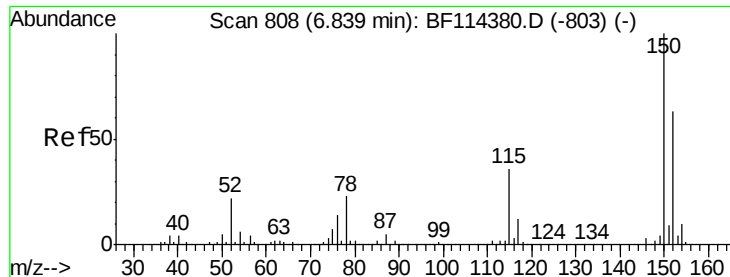
Instrument :
BNA_F
ClientSampleId :
SB-08-0-1

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Quant Time: May 18 09:02:06 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





#1

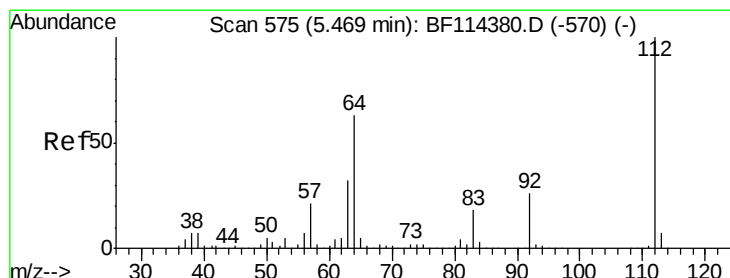
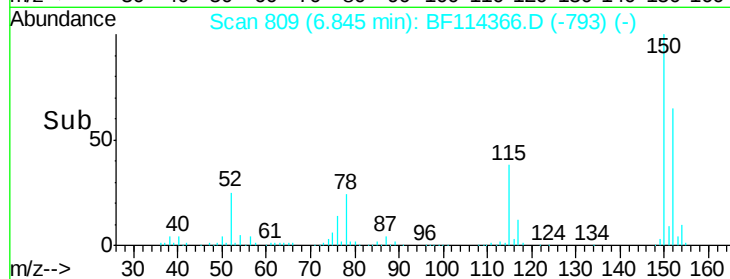
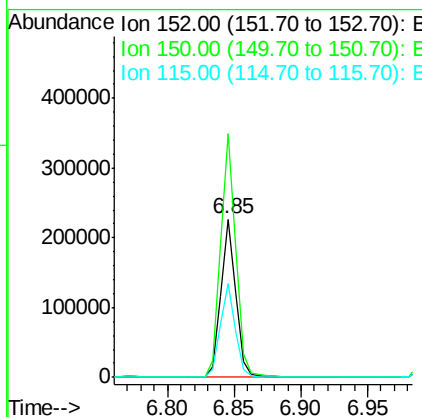
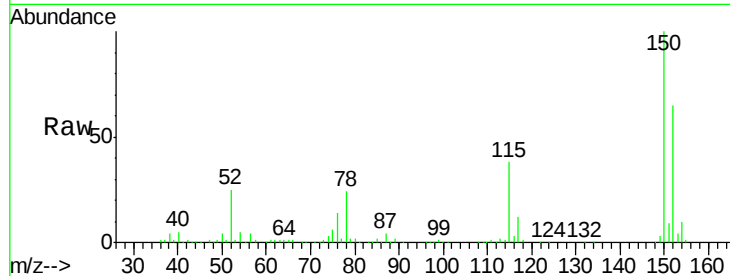
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Instrument :
BNA_F
ClientSampleId :
SB-08-0-1

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.3	186.5
115	58.9	49.1	73.7

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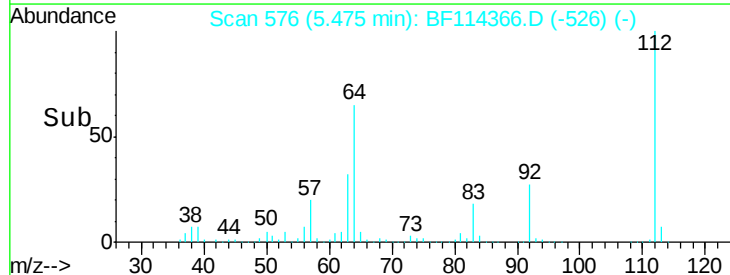
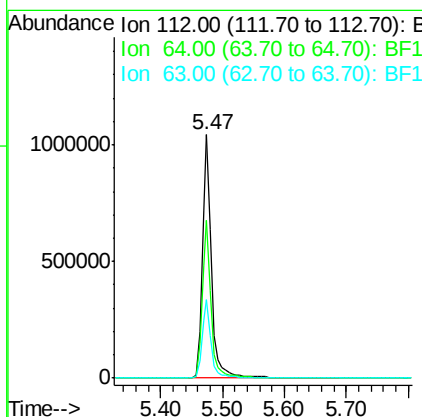
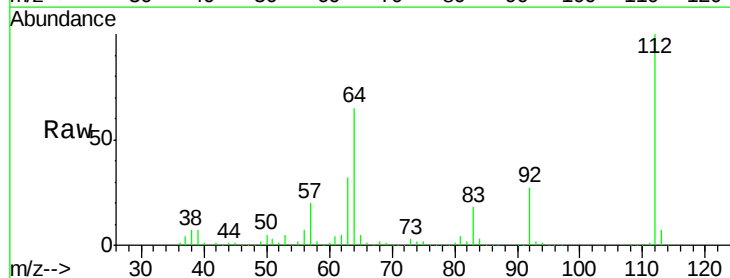
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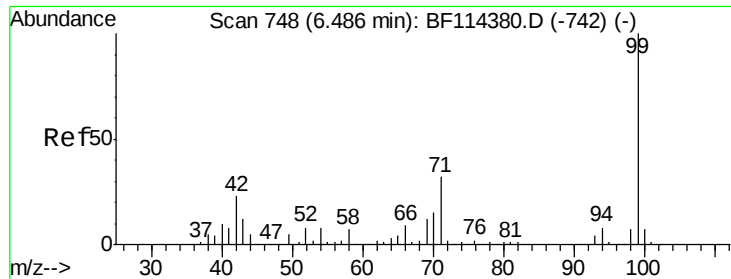


#5

2-Fluorophenol
Concen: 97.187 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.6	49.0	73.6
63	32.3	24.6	37.0





#7

Phenol-d6

Concen: 109.235 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.00 min

Lab File: BF114366.D

Acq: 17 May 2019 23:23

Instrument :

BNA_F

ClientSampleId :

SB-08-0-1

Tgt Ion: 99 Resp: 1458947

Ion Ratio Lower Upper

99 100

42 20.4 17.9 26.9

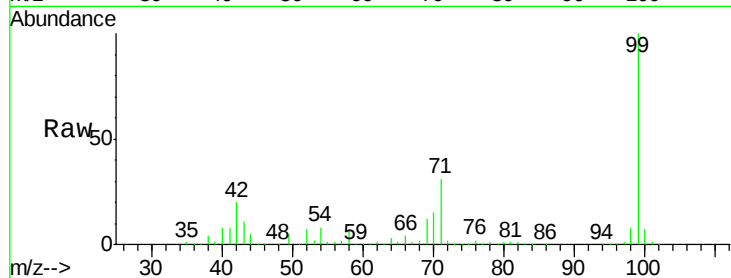
71 30.6 26.2 39.2

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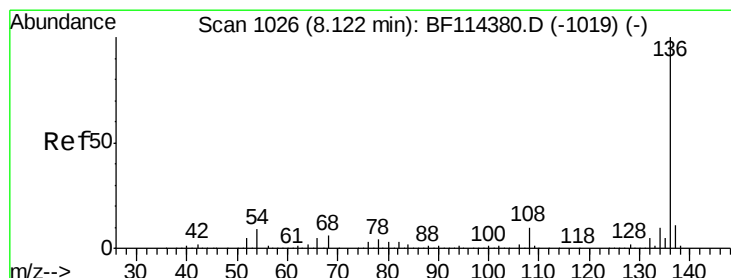
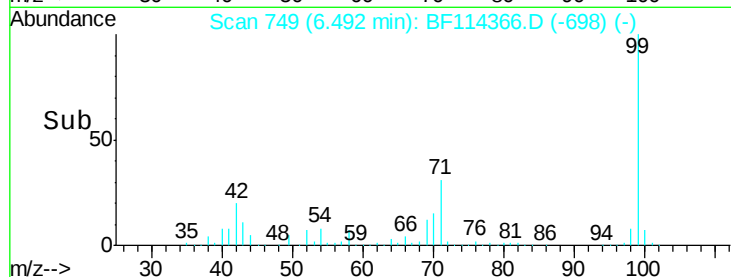
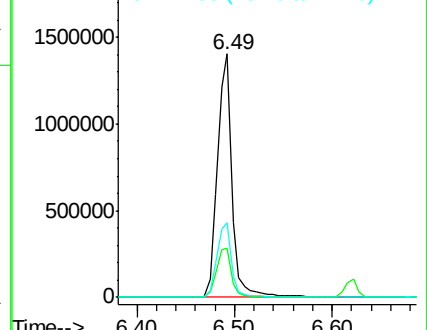
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF114366.D

Acq: 17 May 2019 23:23

Tgt Ion: 136 Resp: 699054

Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 9.4 7.8 11.8

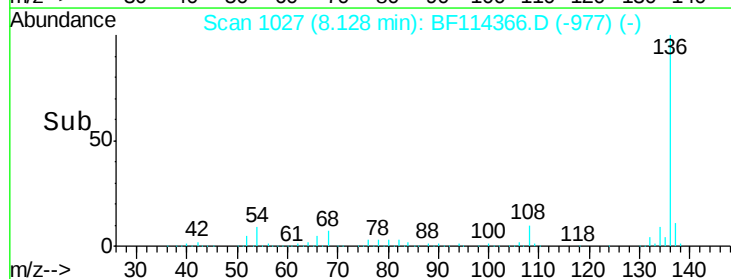
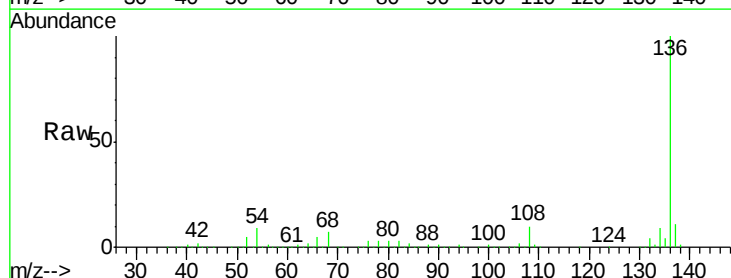
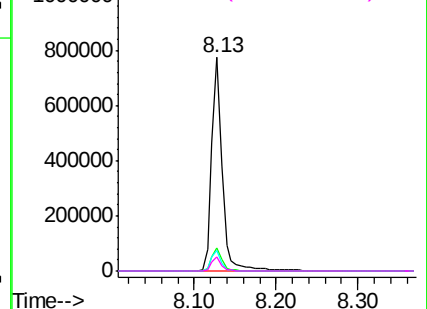
68 6.5 5.1 7.7

Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





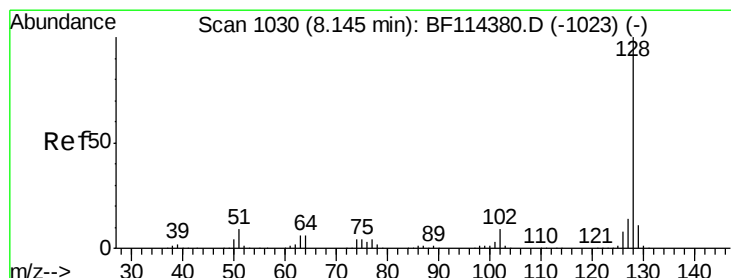
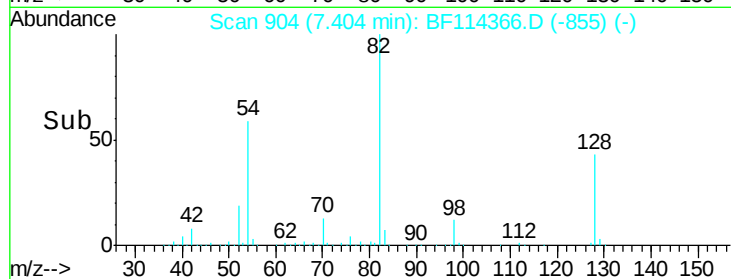
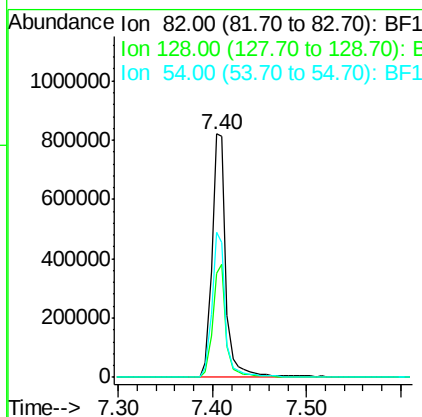
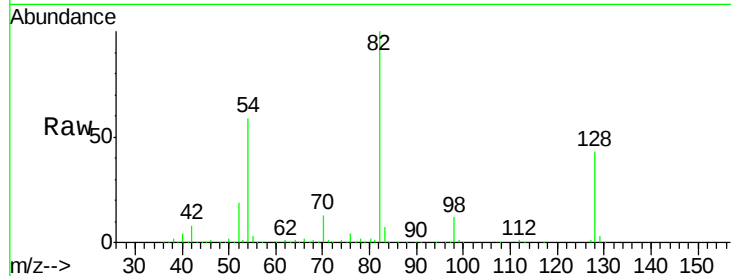
#23
Nitrobenzene-d5
Concen: 70.334 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Instrument :
BNA_F
ClientSampled :
SB-08-0-1

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.7	35.5	53.3
54	59.4	48.5	72.7

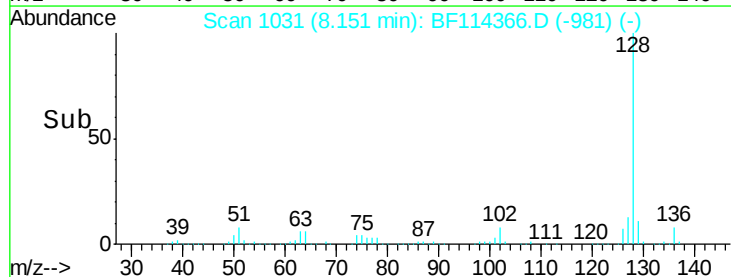
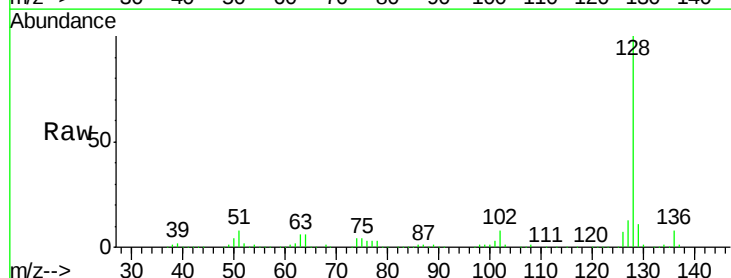
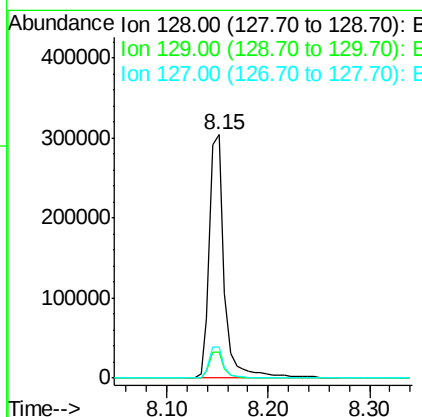
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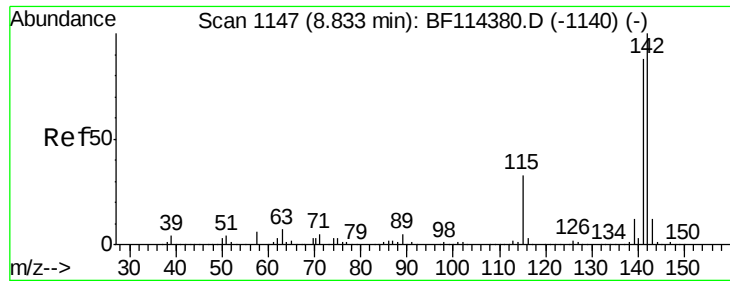
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#31
Naphthalene
Concen: 9.643 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.6	14.4
127	12.8	11.3	16.9





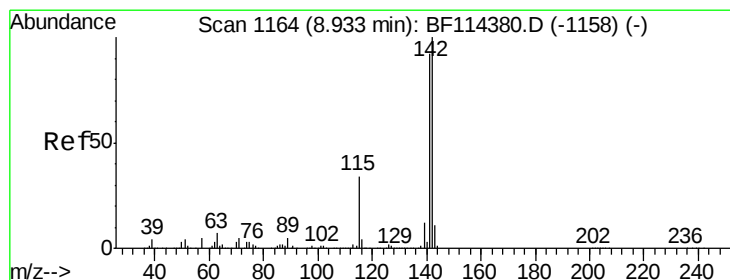
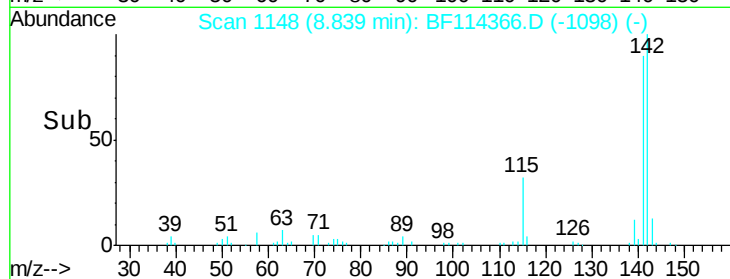
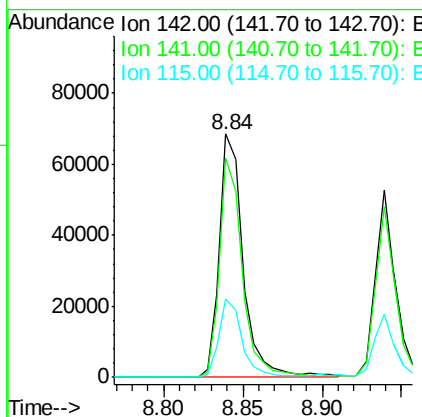
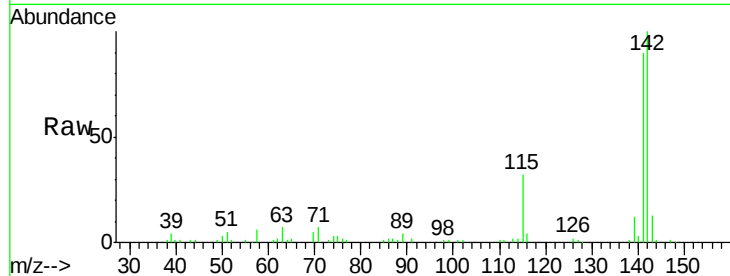
#37
 2-Methylnaphthalene
 Concen: 3.411 ng
 RT: 8.84 min Scan# 1148
 Delta R.T. -0.01 min
 Lab File: BF114366.D
 Acq: 17 May 2019 23:23

Instrument :
 BNA_F
 ClientSampleId :
 SB-08-0-1

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	71865		
141	89.9	72.1	108.1	
115	32.0	28.0	42.0	

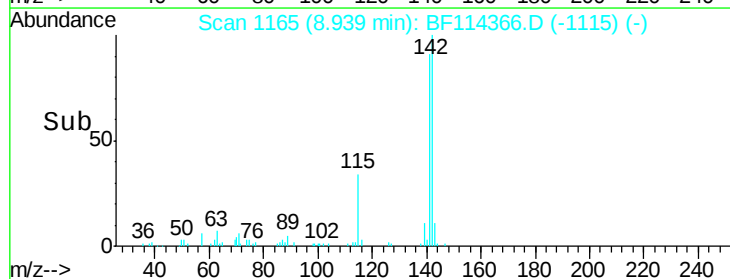
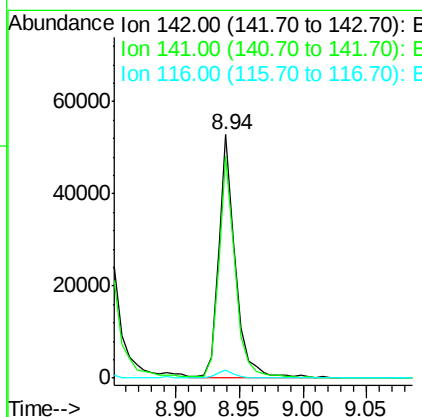
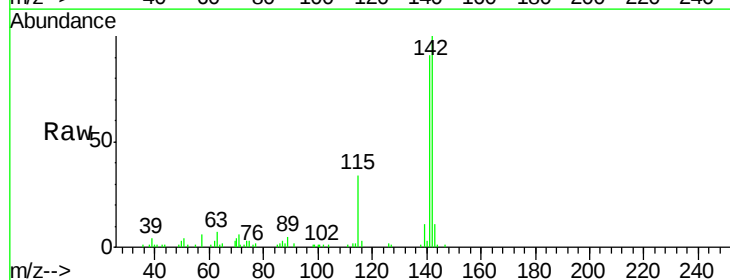
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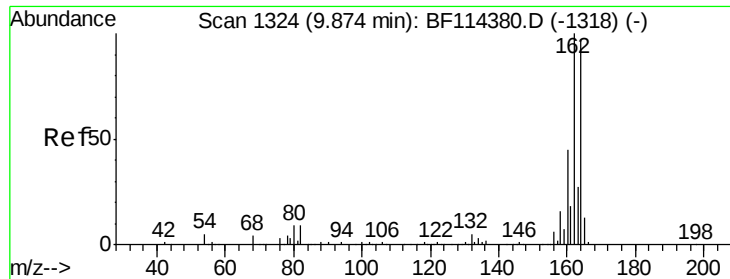
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#38
 1-Methylnaphthalene
 Concen: 2.480 ng
 RT: 8.94 min Scan# 1165
 Delta R.T. -0.01 min
 Lab File: BF114366.D
 Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	49203		
141	91.1	73.4	110.0	
116	3.5	3.1	4.7	





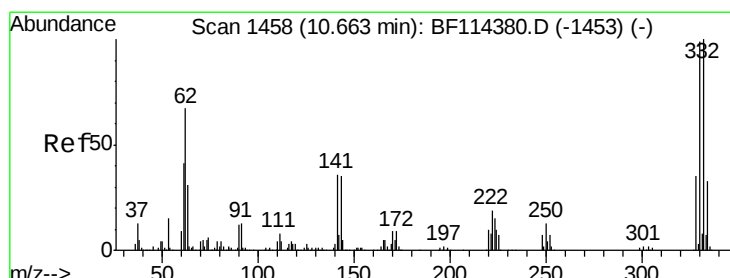
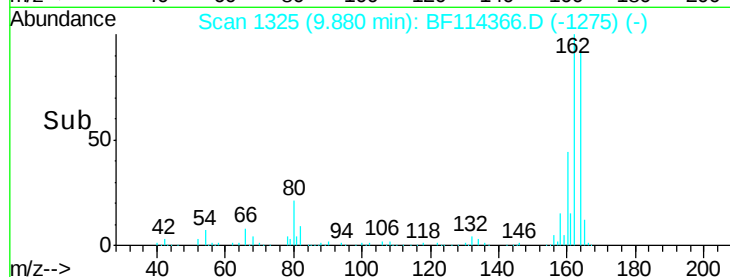
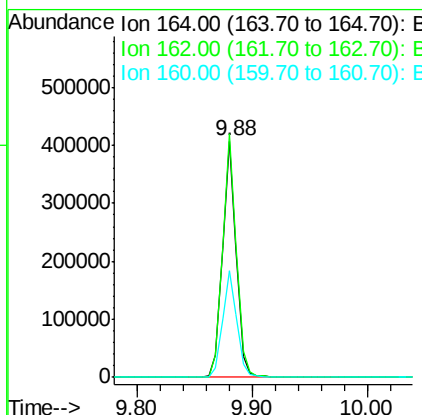
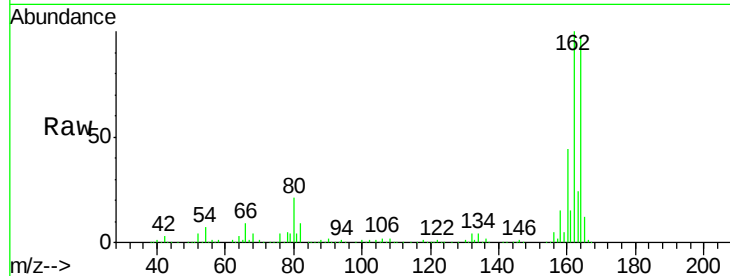
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: BF114366.D
 Acq: 17 May 2019 23:23

Instrument :
 BNA_F
 ClientSampled :
 SB-08-0-1

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	337103		
162	103.0	80.6	120.8	
160	45.1	36.5	54.7	

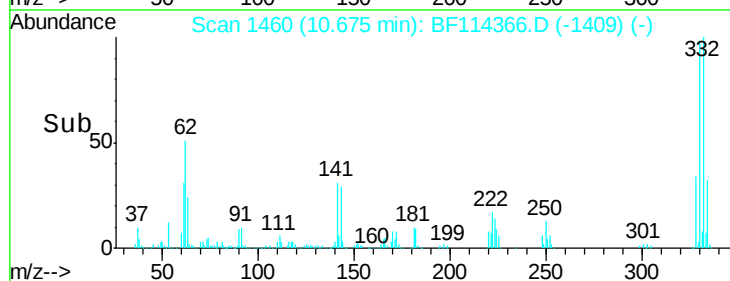
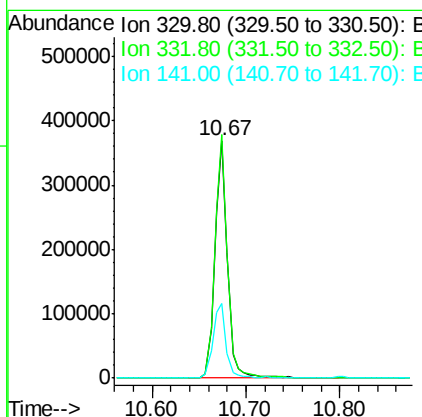
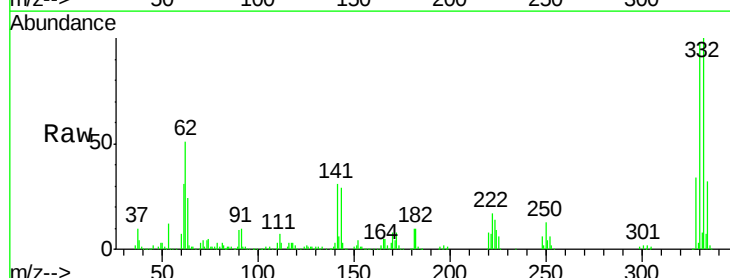
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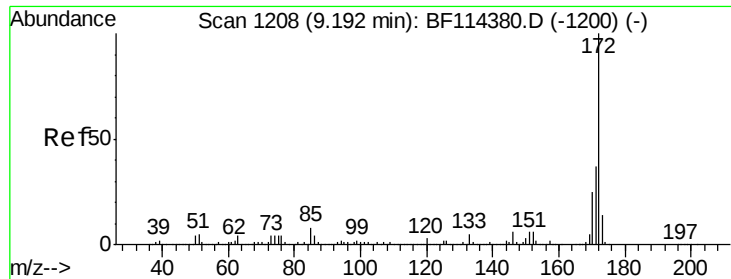
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#42
 2,4,6-Tribromophenol
 Concen: 100.934 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.00 min
 Lab File: BF114366.D
 Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	351762		
332	101.7	81.4	122.2	
141	33.9	26.6	40.0	





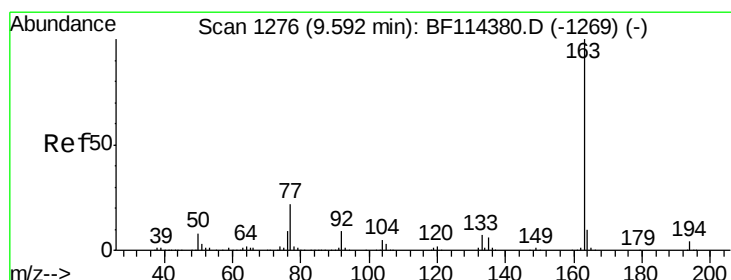
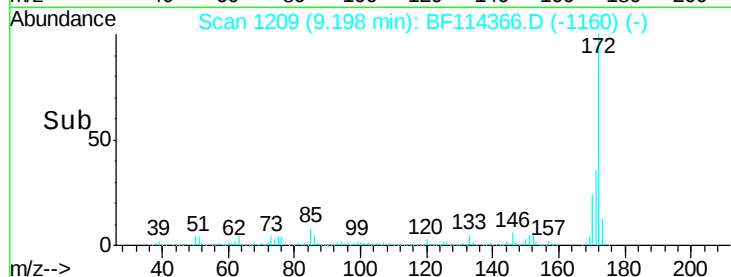
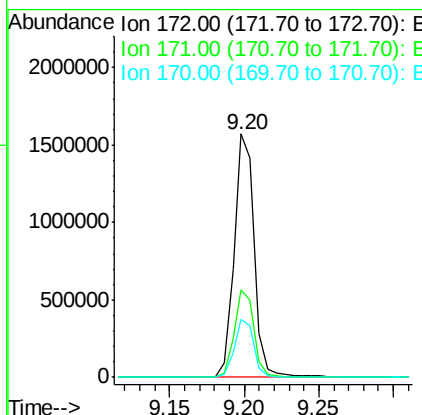
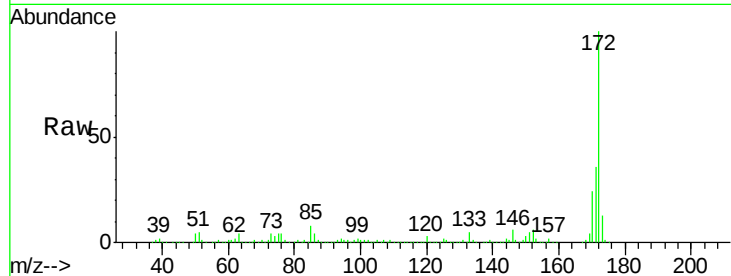
#45
2-Fluorobiphenyl
Concen: 66.867 ng
RT: 9.20 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Instrument :
BNA_F
ClientSampleId :
SB-08-0-1

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	30.7	46.1
170	23.6	20.5	30.7

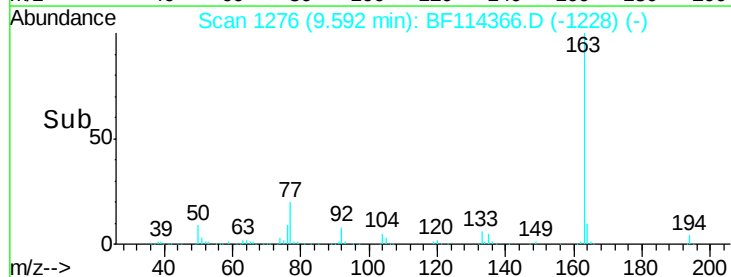
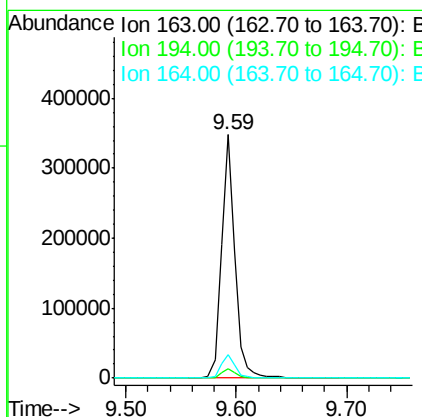
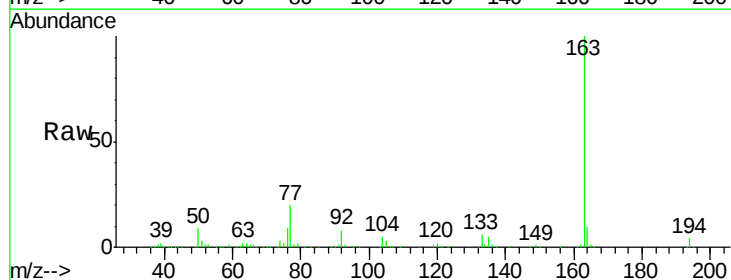
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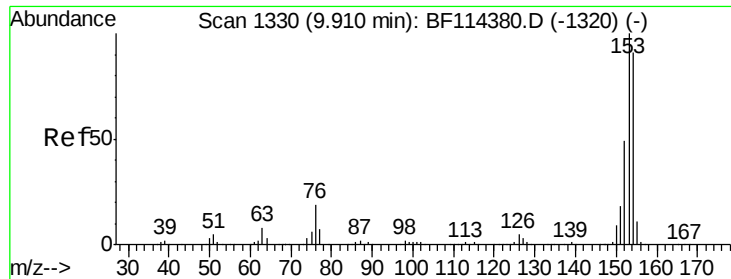
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#50
Dimethylphthalate
Concen: 11.883 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.4	5.0
164	9.9	8.2	12.2





#52

Acenaphthene

Concen: 7.214 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF114366.D

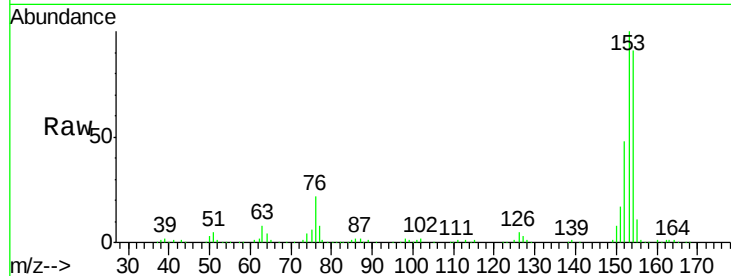
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Instrument :

BNA_F

ClientSampleId :

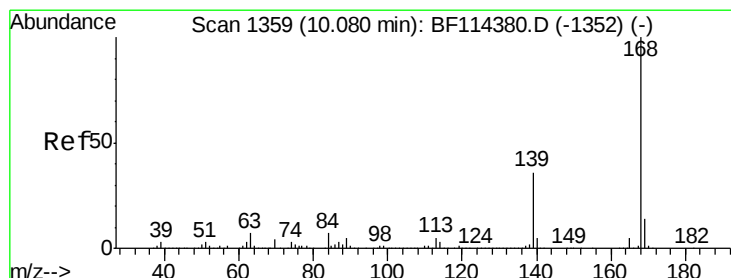
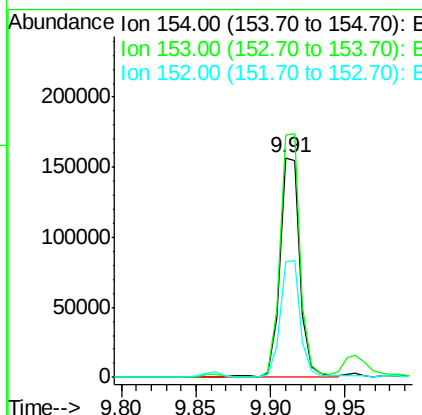
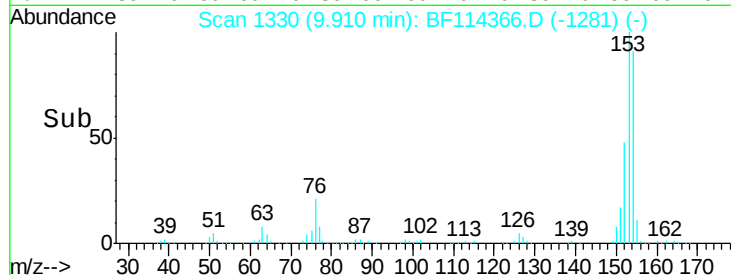
SB-08-0-1



Tgt Ion	Ratio	Resp	Lower	Upper
154	100	147569		
153	110.5	90.5	135.7	
152	52.6	43.4	65.2	

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#55

Dibenzofuran

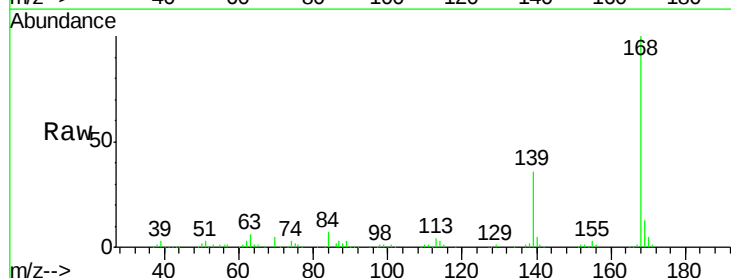
Concen: 6.102 ng

RT: 10.09 min Scan# 1360

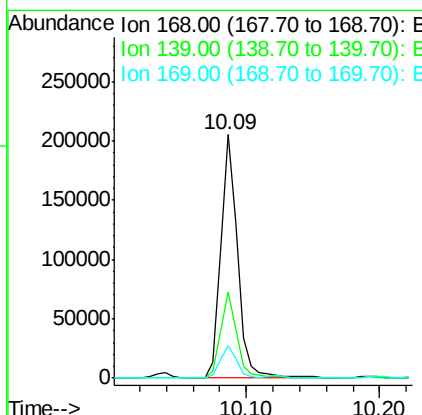
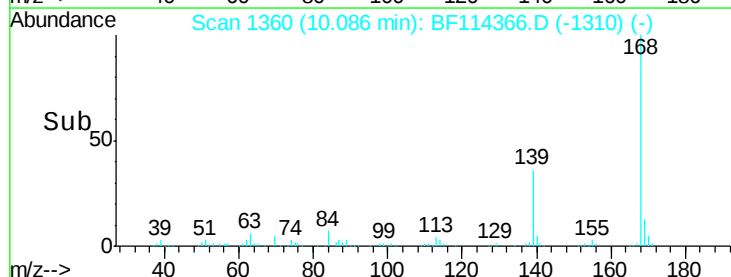
Delta R.T. -0.01 min

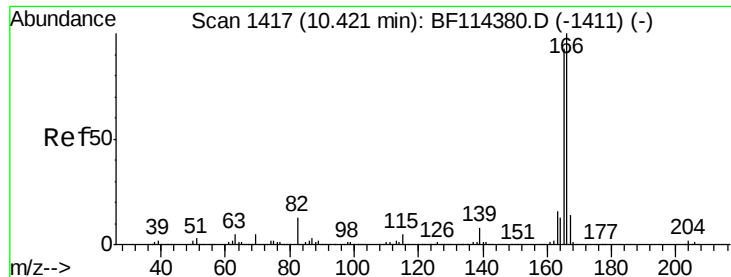
Lab File: BF114366.D

Acq: 17 May 2019 23:23



Tgt Ion	Ratio	Resp	Lower	Upper
168	100	183022		
139	35.6	31.1	46.7	
169	13.3	11.4	17.0	





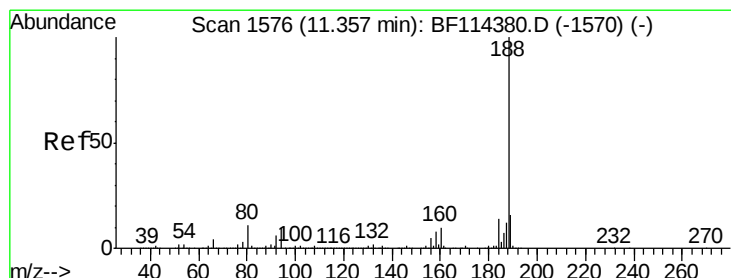
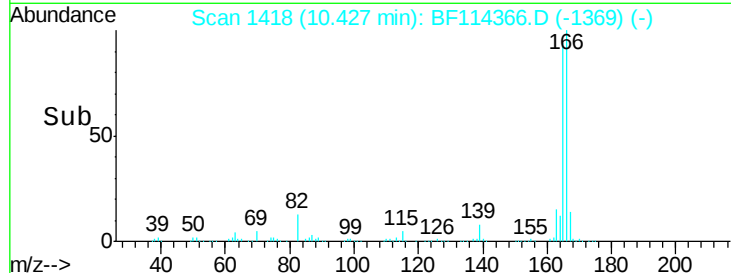
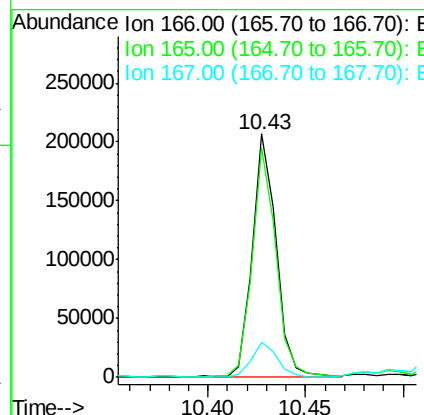
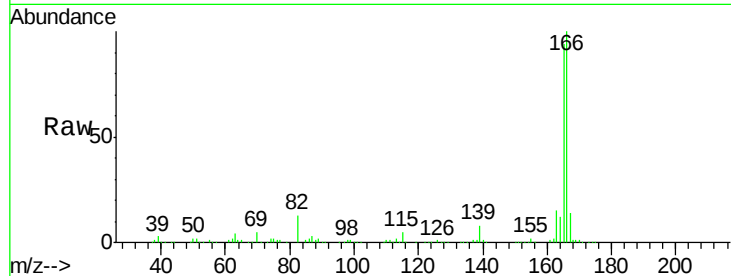
#58
 Fluorene
 Concen: 7.565 ng
 RT: 10.43 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: BF114366.D
 Acq: 17 May 2019 23:23

Instrument :
 BNA_F
 ClientSampled :
 SB-08-0-1

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	175268		
165	94.3	76.1	114.1	
167	14.2	11.1	16.7	

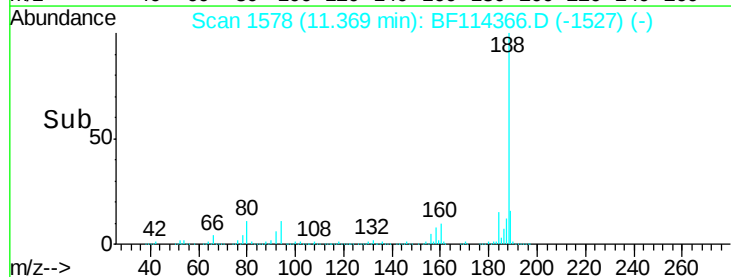
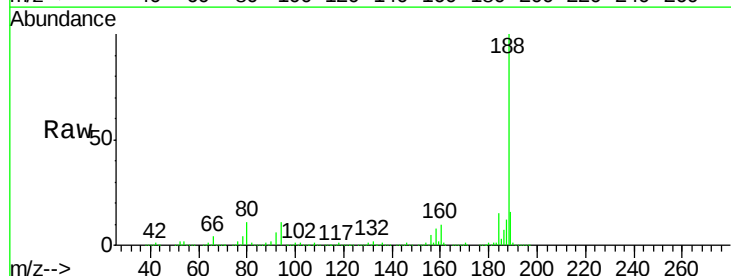
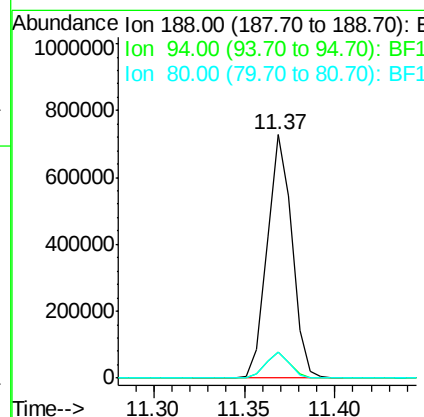
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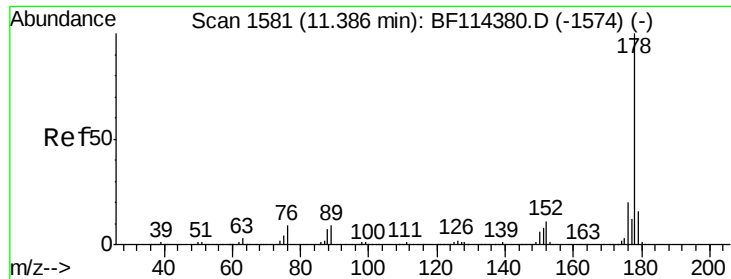
mohammad
 5/21/2019 2:16:25 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: BF114366.D
 Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	688587		
94	10.7	8.4	12.6	
80	10.8	9.2	13.8	





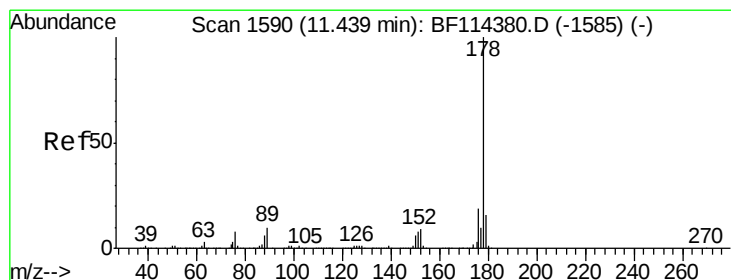
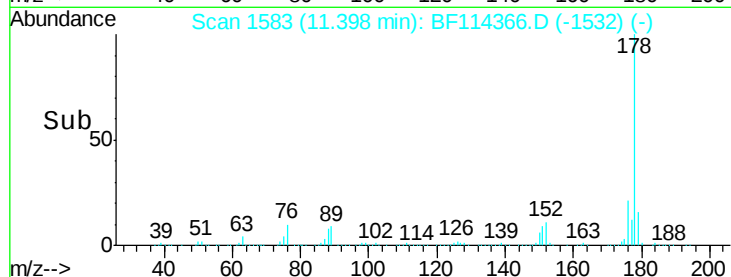
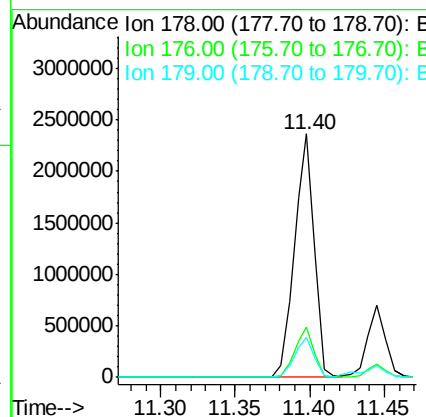
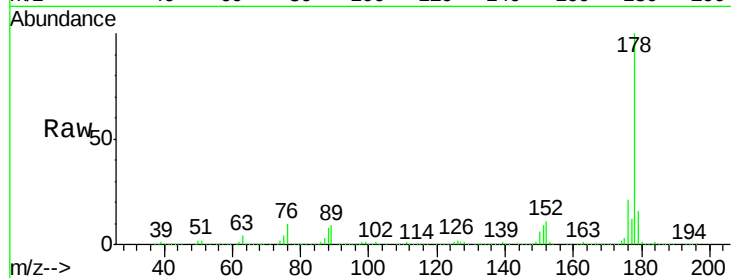
#71
Phenanthrene
Concen: 65.874 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.00 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Instrument :
BNA_F
ClientSampleId :
SB-08-0-1

Tgt Ion:178 Resp: 2206827
Ion Ratio Lower Upper
178 100
176 20.5 16.4 24.6
179 16.3 13.2 19.8

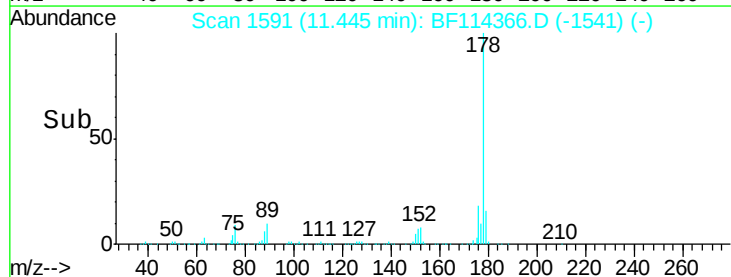
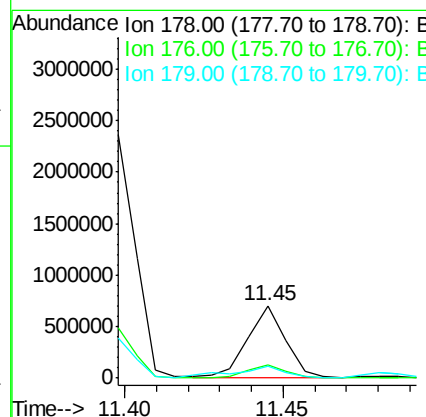
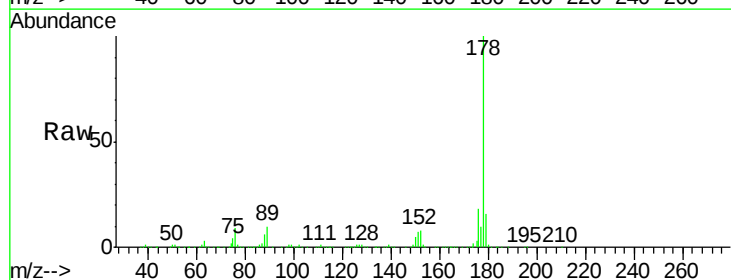
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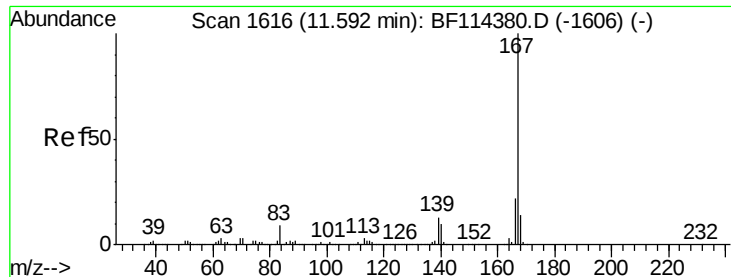
mohammad
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#72
Anthracene
Concen: 16.756 ng
RT: 11.45 min Scan# 1591
Delta R.T. -0.01 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Tgt Ion:178 Resp: 563799
Ion Ratio Lower Upper
178 100
176 18.3 15.8 23.8
179 15.7 13.0 19.4





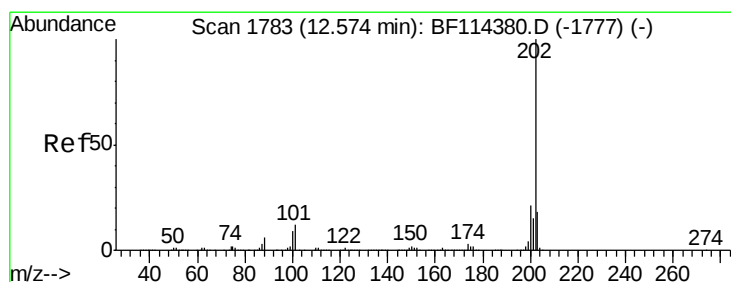
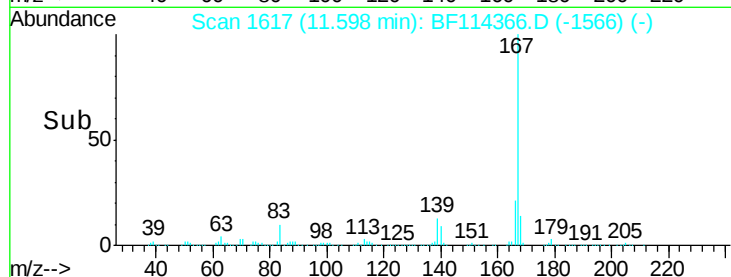
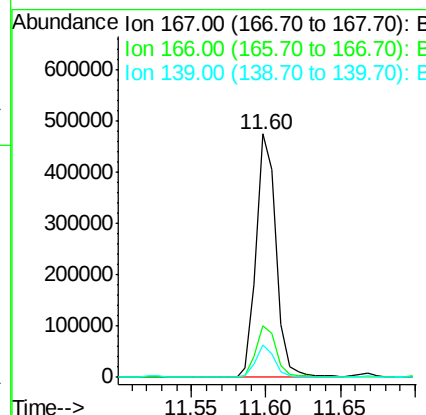
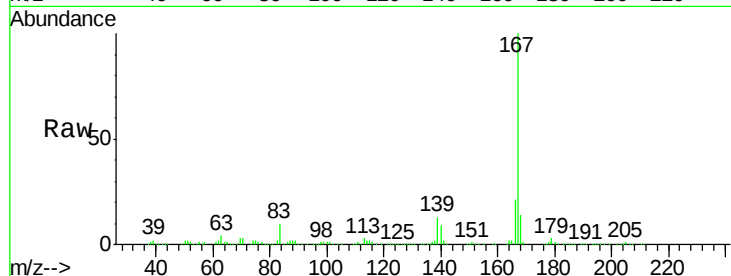
#73
 Carbazole
 Concen: 13.492 ng
 RT: 11.60 min Scan# 1617
 Delta R.T. -0.00 min
 Lab File: BF114366.D
 Acq: 17 May 2019 23:23

Instrument :
 BNA_F
 ClientSampleId :
 SB-08-0-1

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.4	18.2	27.2
139	13.1	10.6	16.0

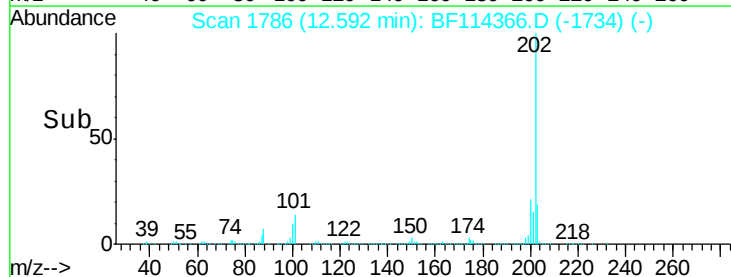
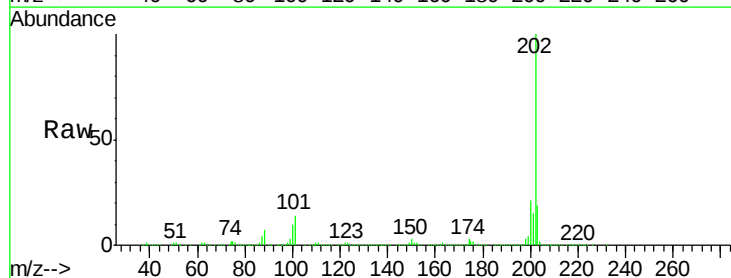
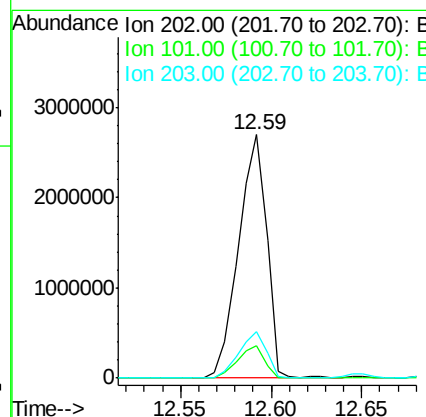
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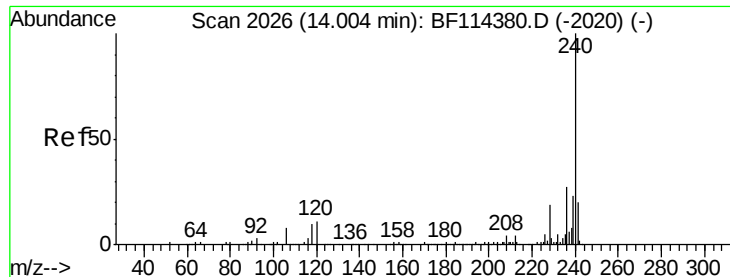
mohammad
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#75
 Fluoranthene
 Concen: 80.303 ng
 RT: 12.59 min Scan# 1786
 Delta R.T. 0.01 min
 Lab File: BF114366.D
 Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.5	0.0	31.0
203	18.9	0.0	38.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF114366.D

Acq: 17 May 2019 23:23

Instrument :

BNA_F

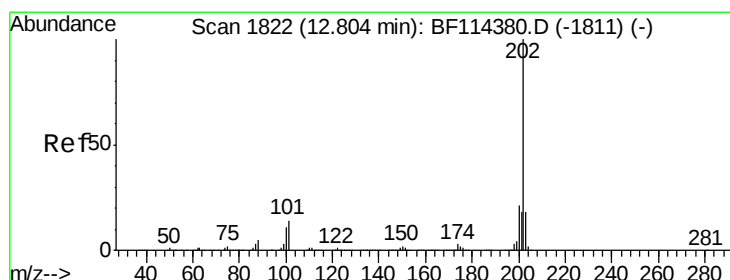
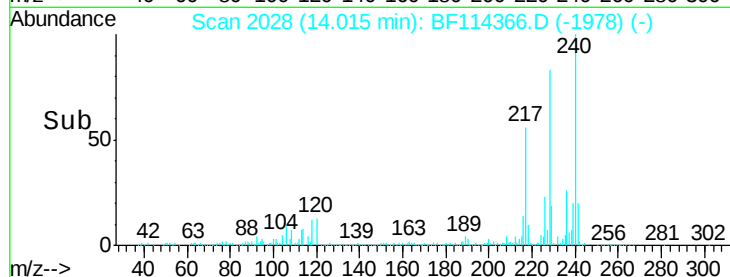
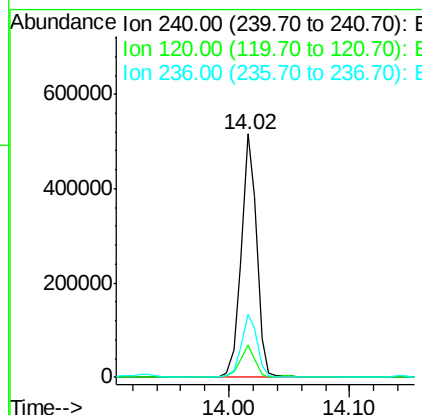
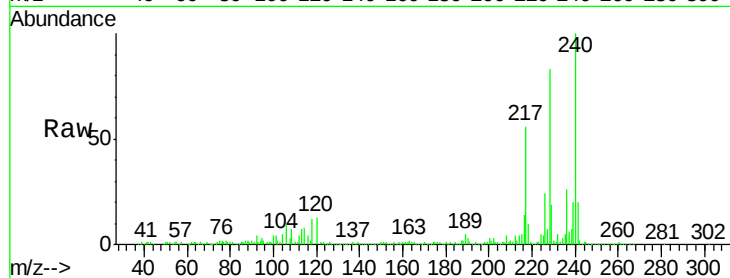
ClientSampleId :

SB-08-0-1

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	462362		
120	13.1	8.3	12.5#	
236	25.8	20.8	31.2	

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#78

Pyrene

Concen: 67.117 ng

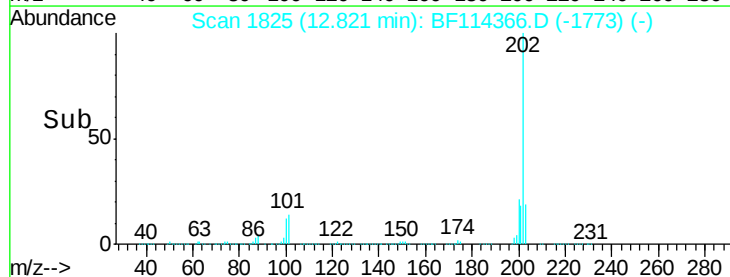
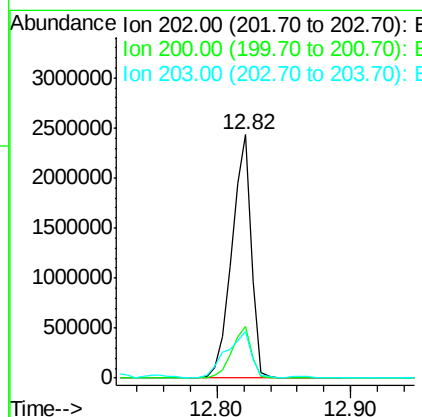
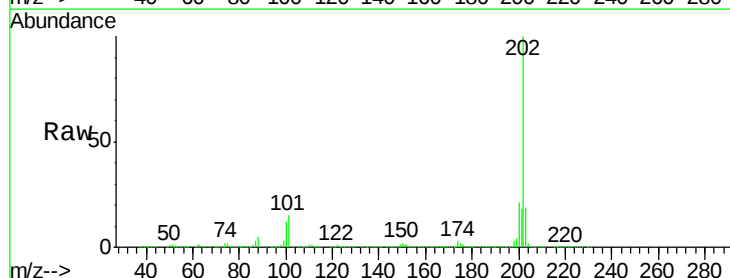
RT: 12.82 min Scan# 1825

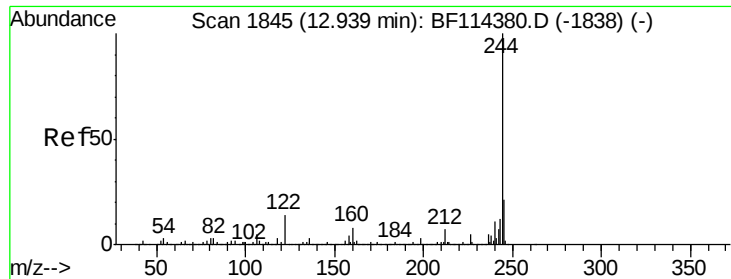
Delta R.T. 0.01 min

Lab File: BF114366.D

Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2496416		
200	21.2	16.9	25.3	
203	18.9	14.5	21.7	





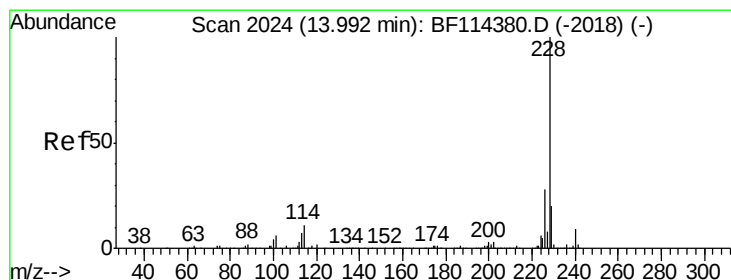
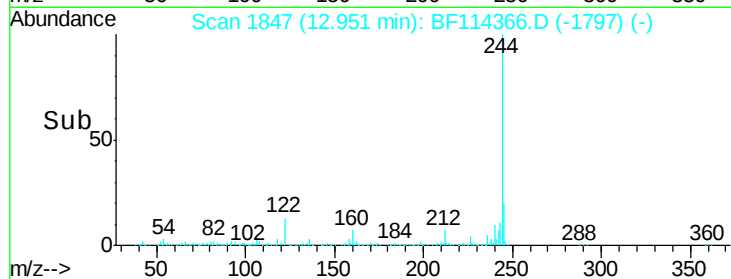
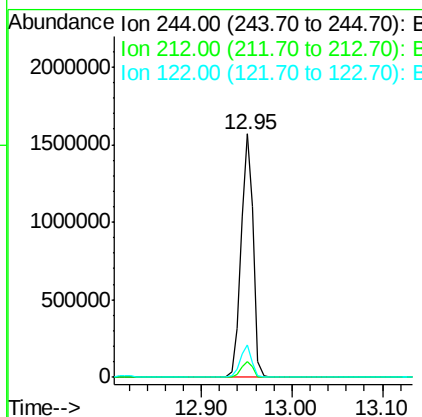
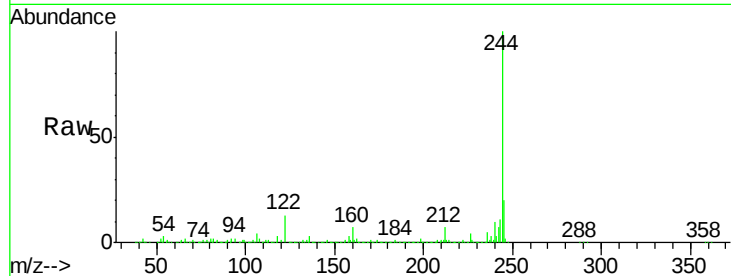
#79
 Terphenyl-d14
 Concen: 66.006 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BF114366.D
 Acq: 17 May 2019 23:23

Instrument :
 BNA_F
 ClientSampleId :
 SB-08-0-1

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.6
122	13.1	9.4	14.2

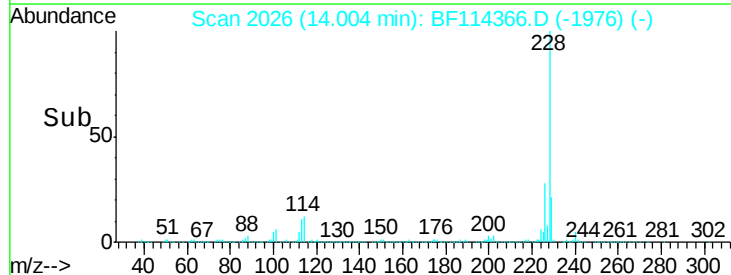
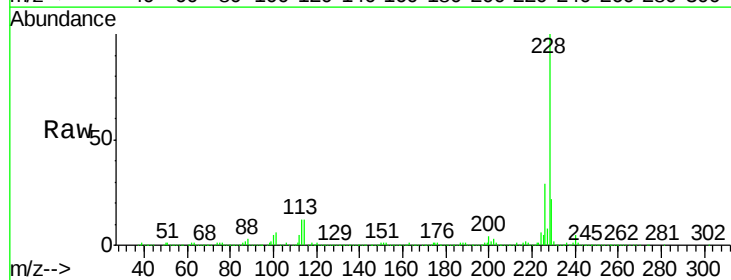
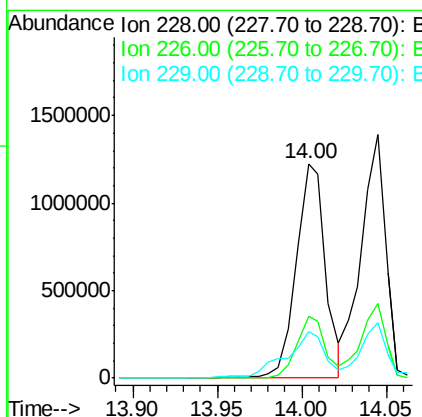
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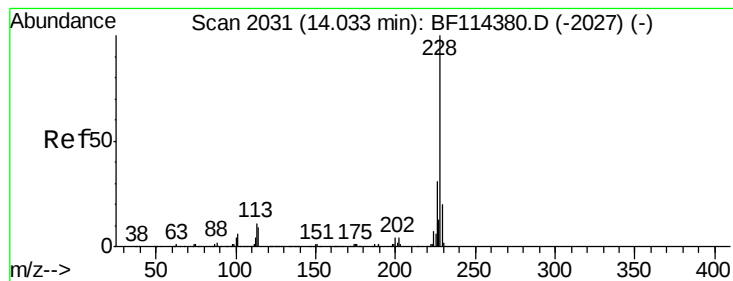
mohammad
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#81
 Benzo(a)anthracene
 Concen: 49.085 ng
 RT: 14.00 min Scan# 2026
 Delta R.T. -0.01 min
 Lab File: BF114366.D
 Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.2
229	21.6	16.4	24.6





#83

Chrysene

Concen: 48.061 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.00 min

Lab File: BF114366.D

Acq: 17 May 2019 23:23

Instrument :

BNA_F

ClientSampleId :

SB-08-0-1

Tgt Ion:228 Resp: 1408929

Ion Ratio Lower Upper

228 100

226 30.9 25.0 37.6

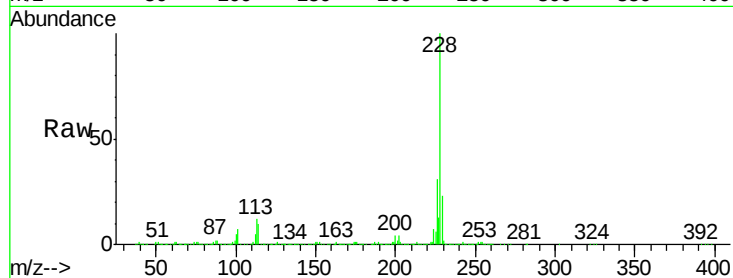
229 22.9 17.0 25.6

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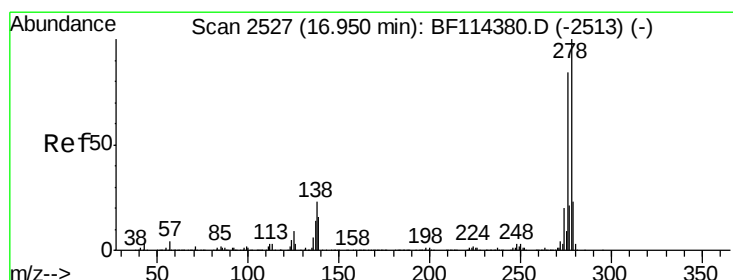
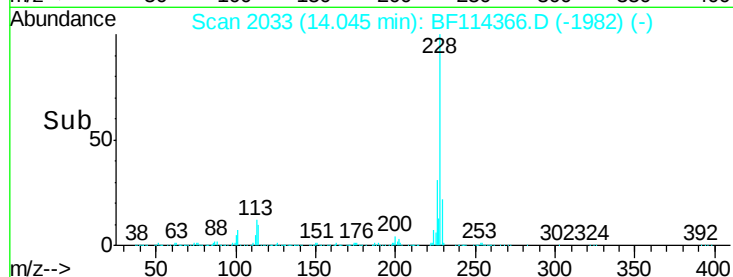
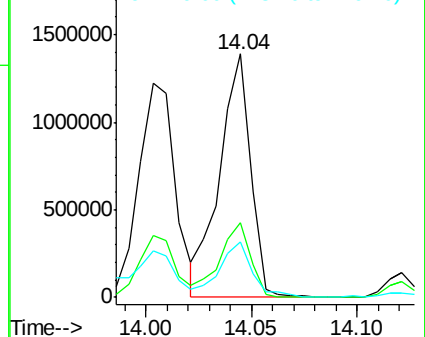
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 15.396 ng

RT: 16.97 min Scan# 2530

Delta R.T. -0.01 min

Lab File: BF114366.D

Acq: 17 May 2019 23:23

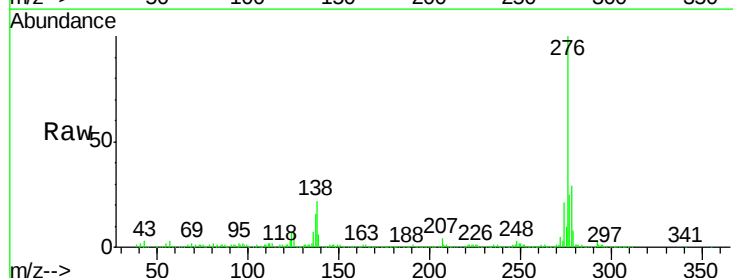
Tgt Ion:276 Resp: 398895

Ion Ratio Lower Upper

276 100

138 23.2 20.2 30.2

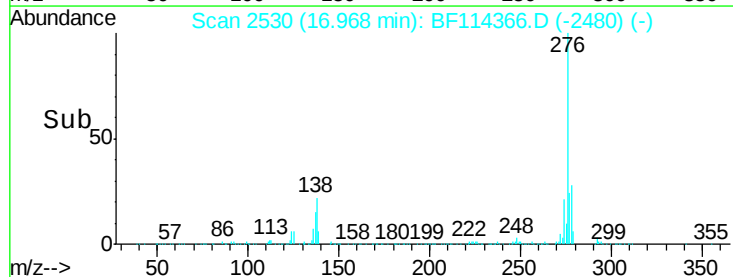
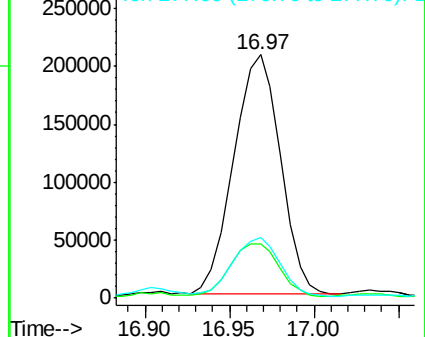
277 24.9 20.0 30.0

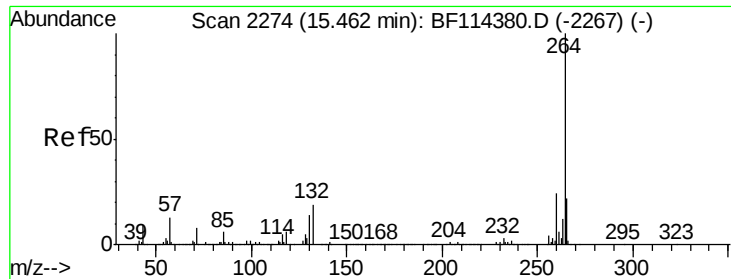


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Perylene-d12

Concen: 20.000 ng

RT: 15.49 min Scan# 2278

Delta R.T. -0.02 min

Lab File: BF114366.D

Acq: 17 May 2019 23:23

Instrument :

BNA_F

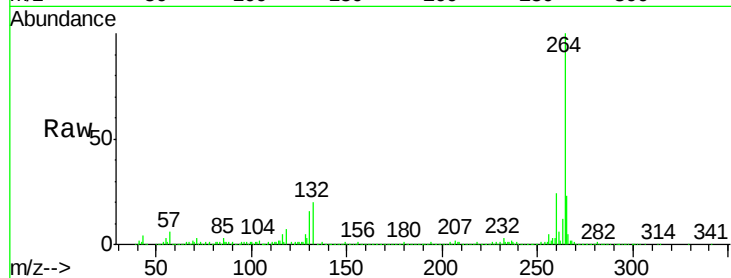
ClientSampled :

SB-08-0-1

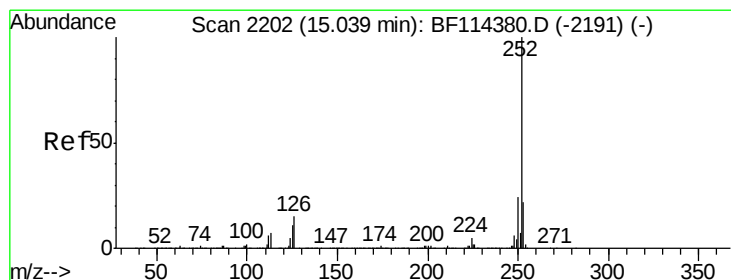
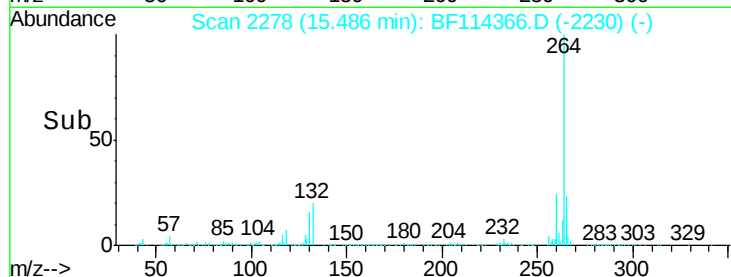
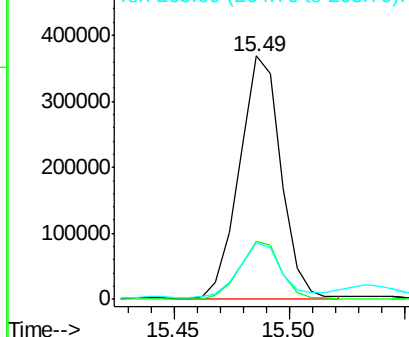
Tgt Ion:	264	Resp:	461899
Ion Ratio		Lower	Upper
264	100		
260	23.9	19.4	29.0
265	23.2	16.9	25.3

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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 52.767 ng m

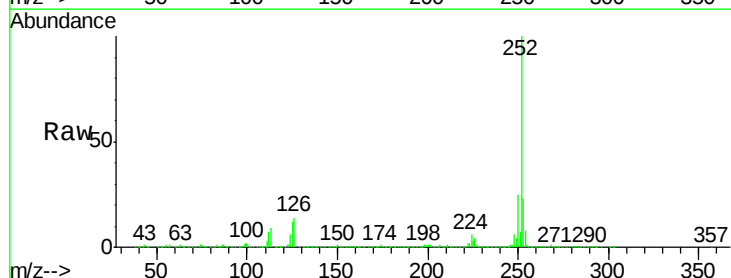
RT: 15.06 min Scan# 2206

Delta R.T. -0.02 min

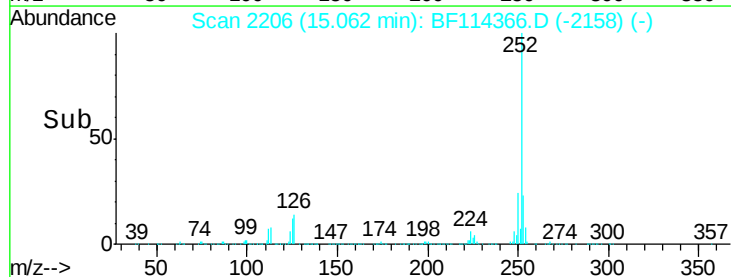
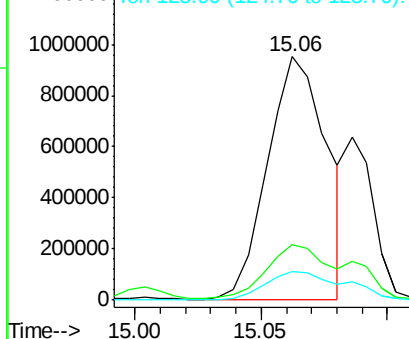
Lab File: BF114366.D

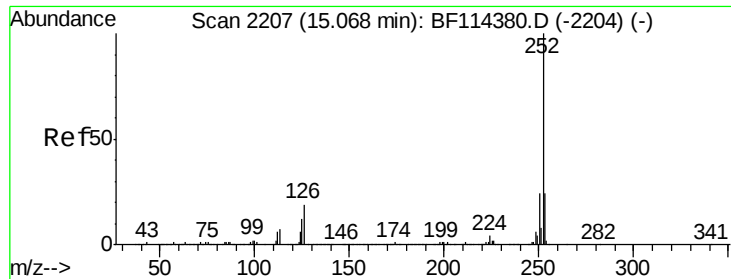
Acq: 17 May 2019 23:23

Tgt Ion:	252	Resp:	1561477
Ion Ratio		Lower	Upper
252	100		
253	22.8	17.8	26.8
125	11.9	8.3	12.5



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





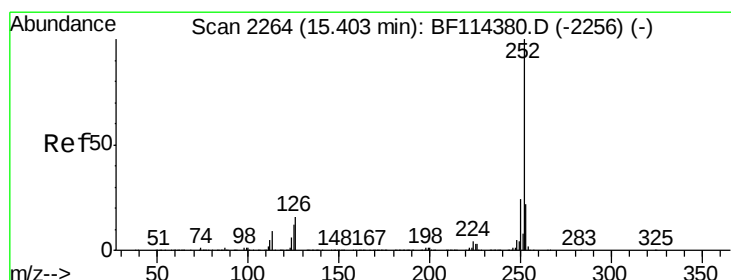
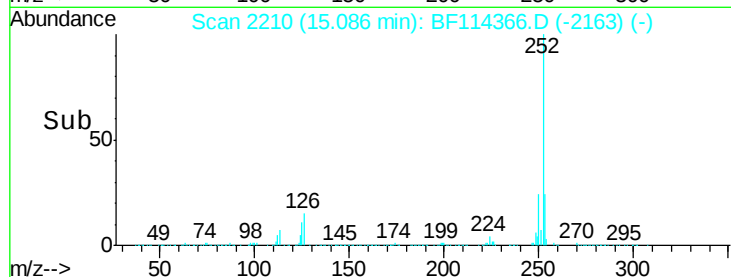
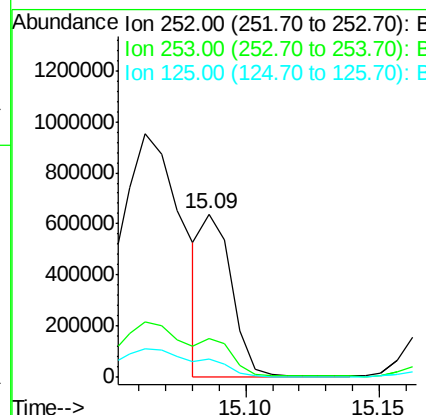
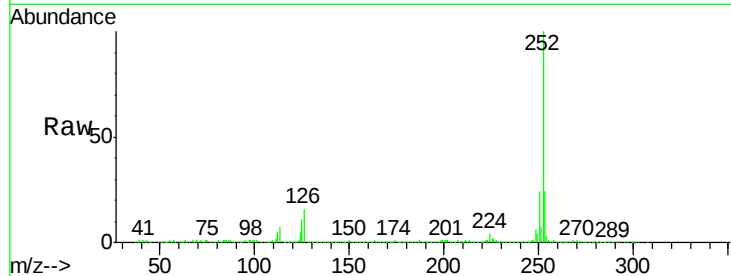
#89
Benzo(k)fluoranthene
Concen: 18.540 ng m
RT: 15.09 min Scan# 2210
Delta R.T. -0.02 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Instrument :
BNA_F
ClientSampleId :
SB-08-0-1

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.2
125	11.1	8.6	13.0

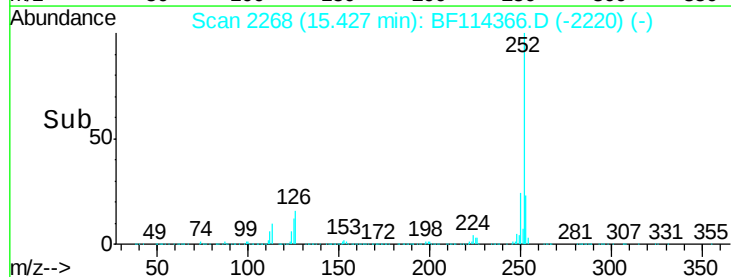
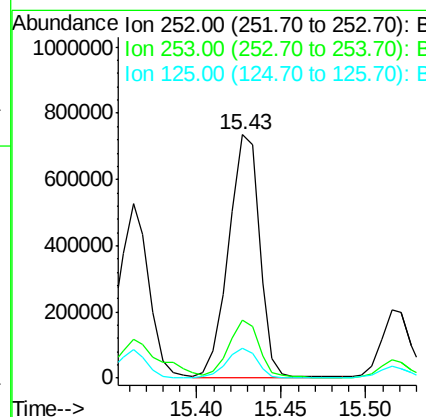
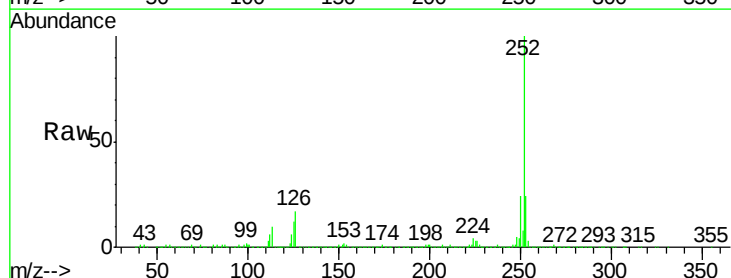
Manual Integrations
APPROVED

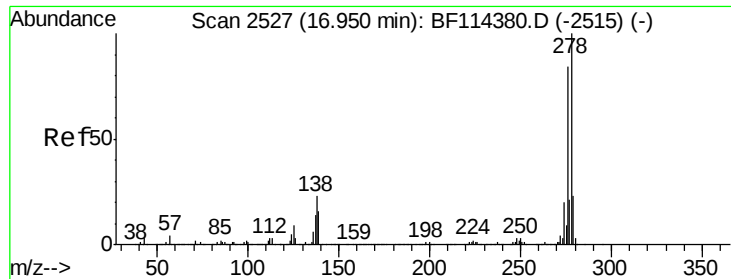
mohammad
5/21/2019 2:16:25 PM



#90
Benzo(a)pyrene
Concen: 35.989 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.02 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	12.4	9.5	14.3





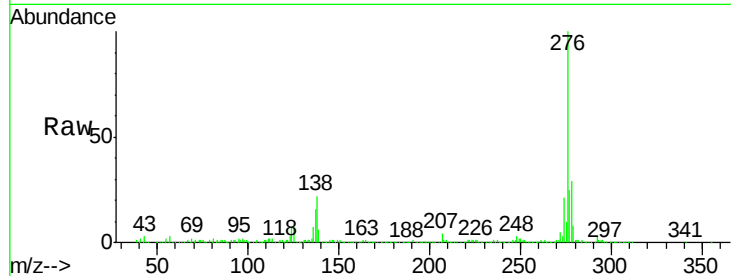
#91
Dibenzo(a,h)anthracene
Concen: 5.747 ng m
RT: 16.97 min Scan# 2530
Delta R.T. -0.02 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Instrument :
BNA_F
ClientSampleId :
SB-08-0-1

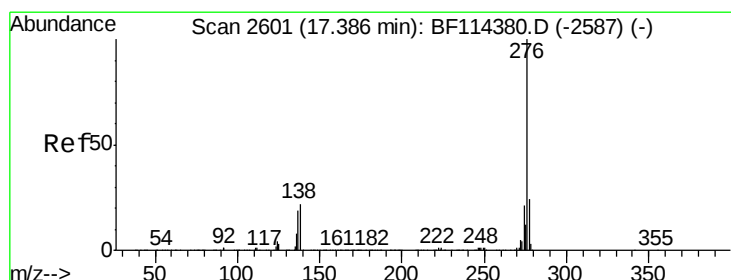
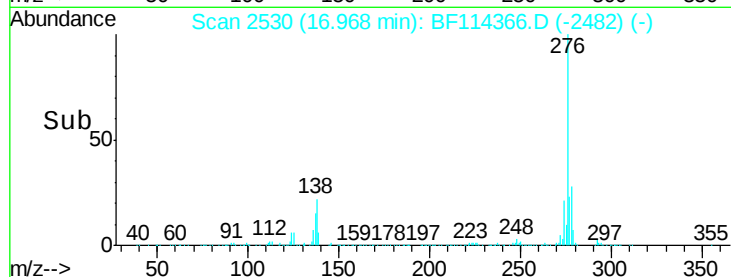
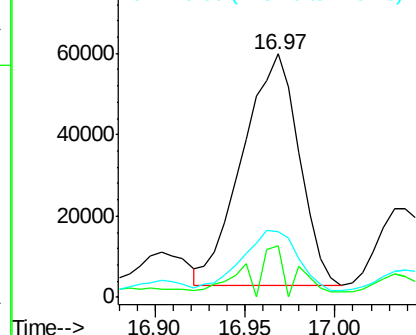
Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.3	13.5	20.3#
279	26.9	19.0	28.6

Manual Integrations
APPROVED

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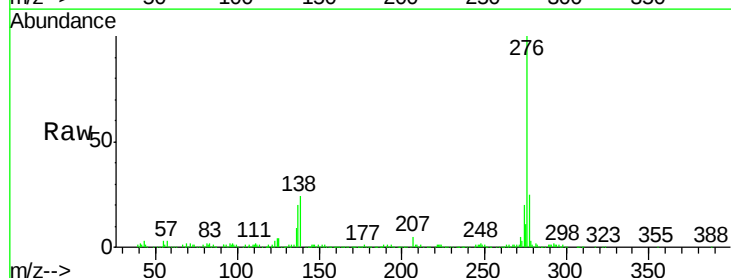


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 15.274 ng
RT: 17.42 min Scan# 2606
Delta R.T. -0.00 min
Lab File: BF114366.D
Acq: 17 May 2019 23:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.0	28.4
138	23.9	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

