

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
 Data File : BF116702.D
 Acq On : 31 Aug 2019 16:33
 Operator : HP/JU
 Sample : K4090-17 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-082919

Manual Integrations
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mohammad
 9/5/2019 9:23:40 AM

Quant Time: Sep 01 00:54:32 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	119089	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	483702	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	239405	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	343059	20.00	ng	0.00
76) Chrysene-d12	13.99	240	232533	20.00	ng	0.00
87) Perylene-d12	15.45	264	279718	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	133243	18.13	ng	-0.01
7) Phenol-d6	6.46	99	182973	18.96	ng	-0.02
23) Nitrobenzene-d5	7.40	82	106527	12.57	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	25949	16.21	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	200202	14.11	ng	-0.01
79) Terphenyl-d14	12.94	244	144402	11.49	ng	-0.01
Target Compounds						
71) Phenanthrene	11.39	178	244332	12.794	ng	Qvalue 100
72) Anthracene	11.43	178	70095	3.646	ng	97
75) Fluoranthene	12.57	202	353476	18.834	ng	97
78) Pyrene	12.80	202	339179	16.409	ng	99
81) Benzo(a)anthracene	13.98	228	165663	11.257	ng	95
83) Chrysene	14.02	228	148445	9.791	ng	97
86) Indeno(1,2,3-cd)pyrene	16.89	276	67691	5.558	ng	96
88) Benzo(b)fluoranthene	15.03	252	183323m	10.840	ng	
89) Benzo(k)fluoranthene	15.04	252	69268m	4.492	ng	
90) Benzo(a)pyrene	15.39	252	146140	9.933	ng	# 96
92) Benzo(a,h,i)perylene	17.32	276	59461	4.527	ng	# 88

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

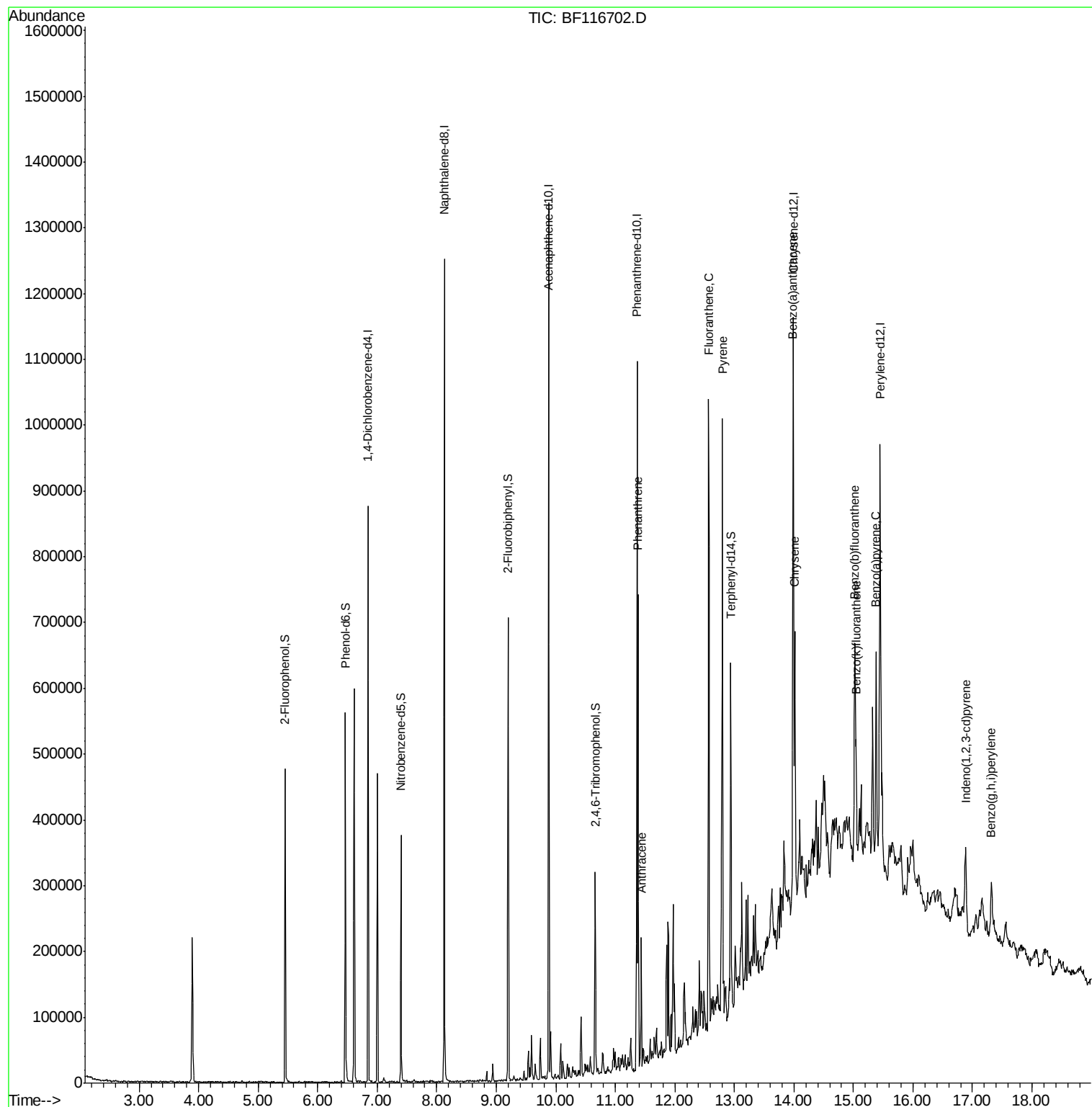
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
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ALS Vial : 16 Sample Multiplier: 1

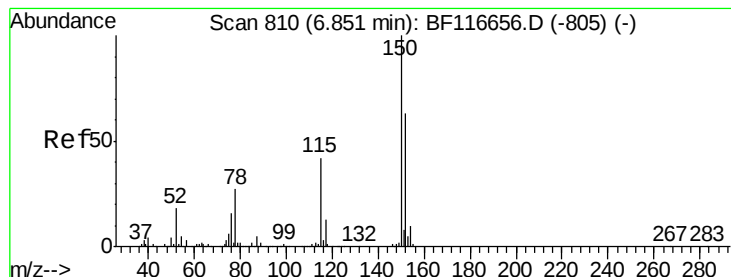
Instrument :
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ClientSampleId :
OR-02-082919

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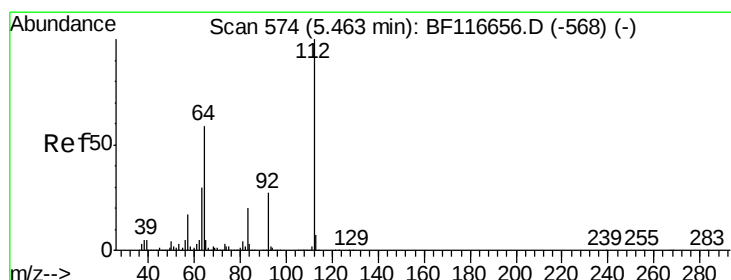
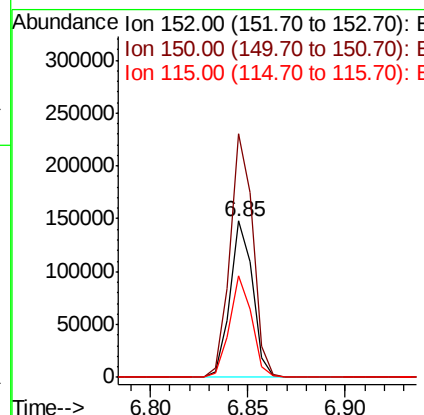
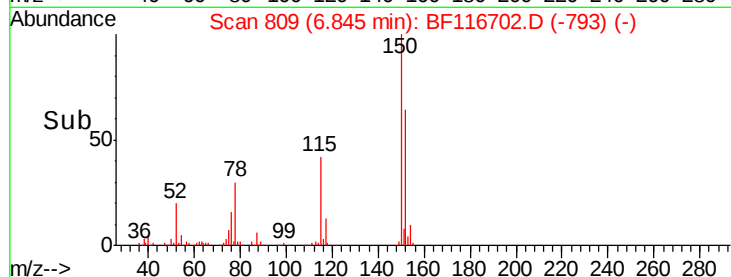
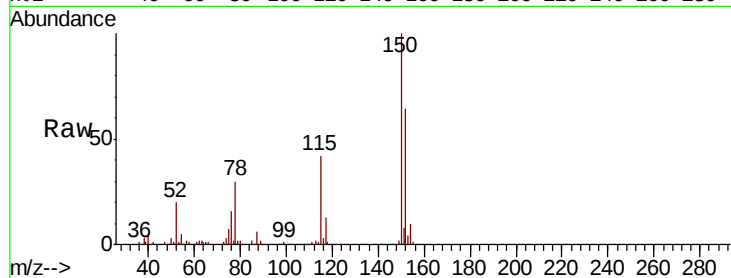
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 809
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-082919

Tot Ion	Ratio	Resp	Lower	Upper
152	100	119089		
150	156.1	124.4	186.6	
115	65.0	49.9	74.9	

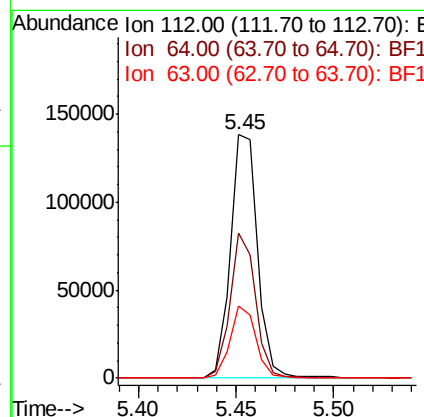
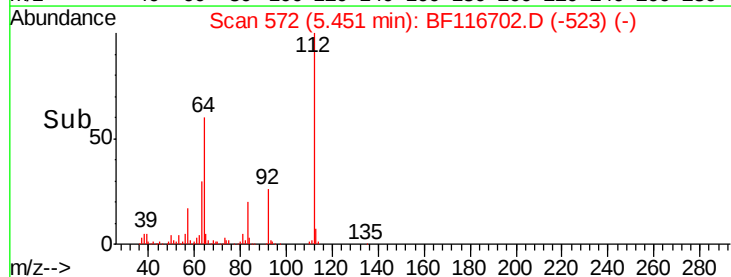
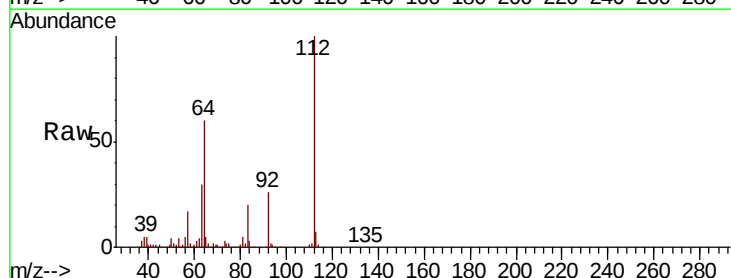
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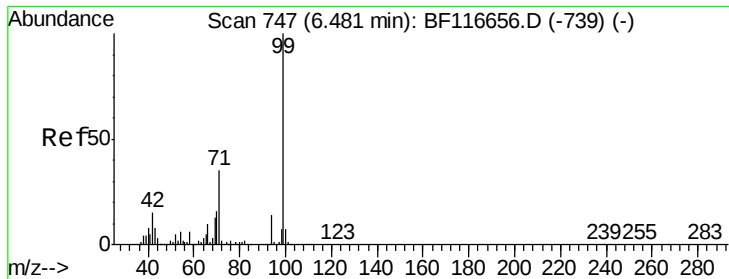
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#5
 2-Fluorophenol
 Concen: 18.126 ng
 RT: 5.45 min Scan# 572
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	133243		
64	59.6	47.1	70.7	
63	29.6	24.9	37.3	





#7

Phenol-d6

Concen: 18.956 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.02 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Instrument :

BNA_F

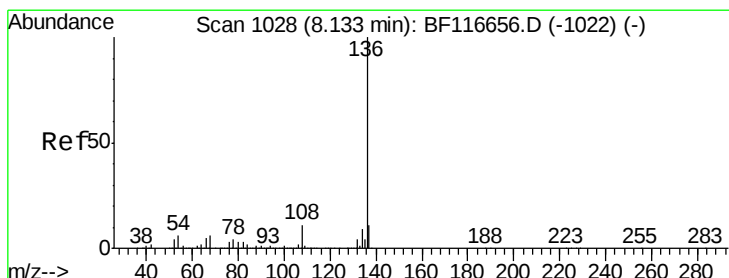
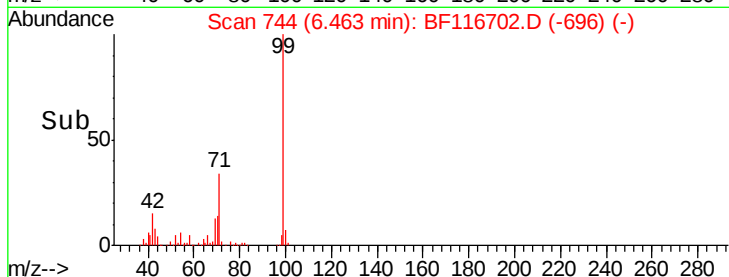
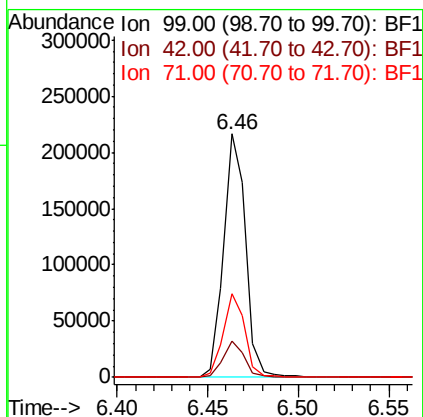
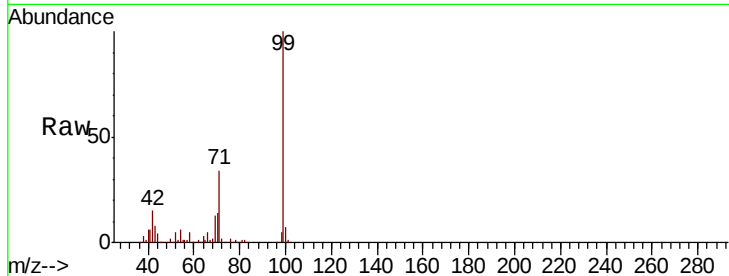
ClientSampleId :

OR-02-082919

Tot Ion:	99	Resp:	182973
Ion Ratio	Lower	Upper	
99	100		
42	14.7	13.7	20.5
71	34.3	30.8	46.2

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#21

Naphthalene-d8

Concen: 20.000 ng

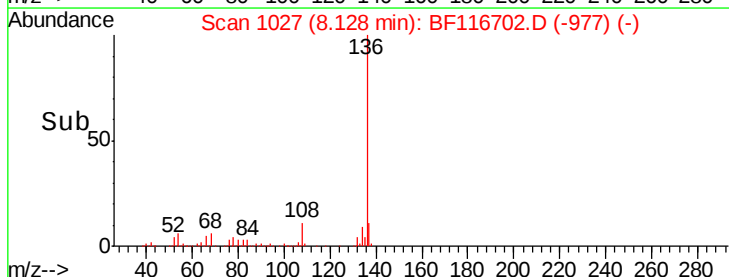
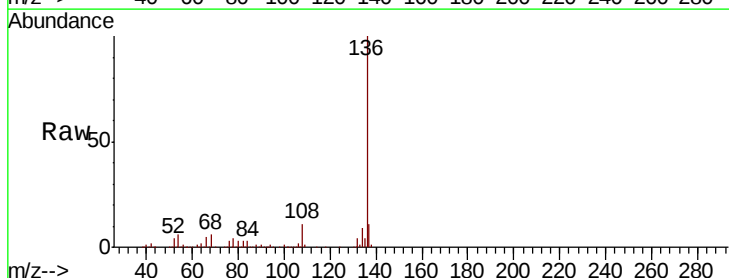
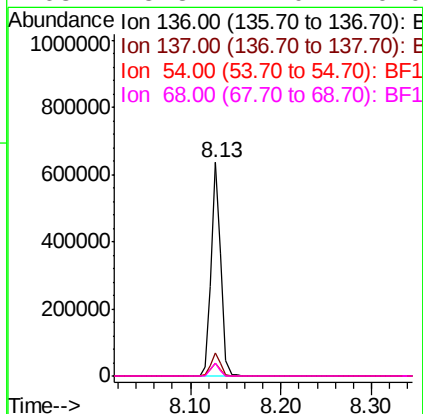
RT: 8.13 min Scan# 1027

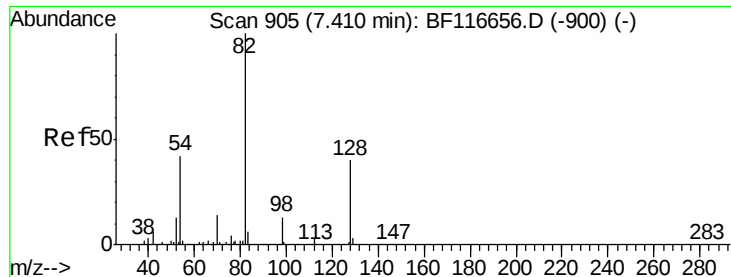
Delta R.T. -0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Tgt Ion:	136	Resp:	483702
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	6.1	4.8	7.2
68	5.8	4.0	6.0





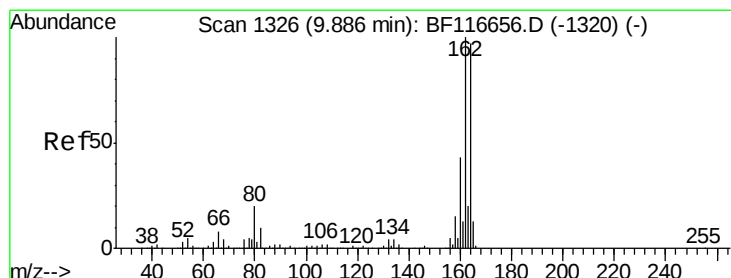
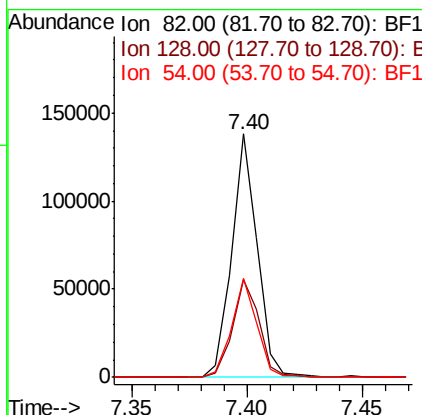
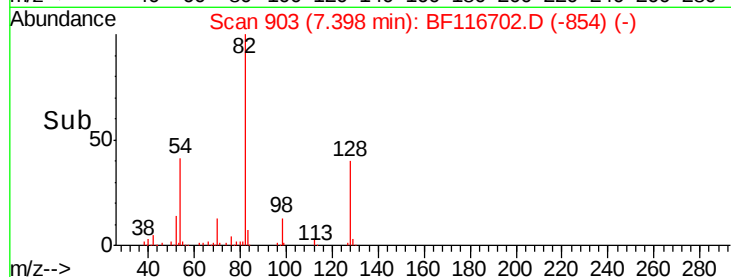
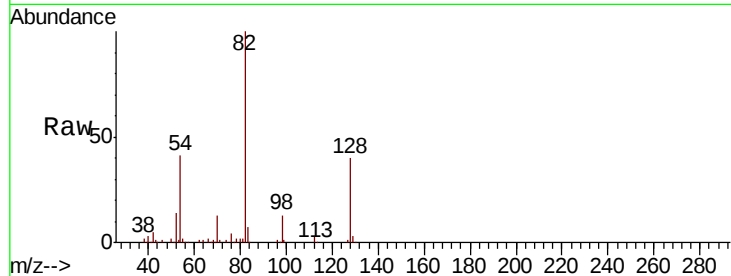
#23
 Nitrobenzene-d5
 Concen: 12.573 ng
 RT: 7.40 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-082919

Tot Ion	82	Resp	106527
Ion Ratio	Lower	Upper	
82	100		
128	40.2	32.8	49.2
54	40.9	36.9	55.3

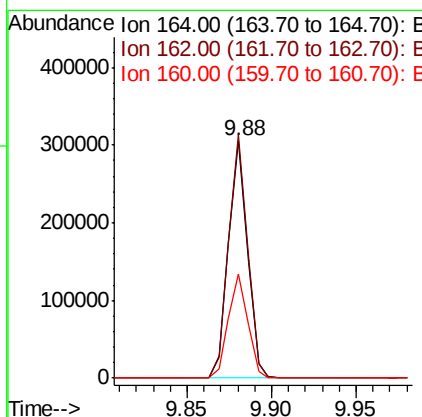
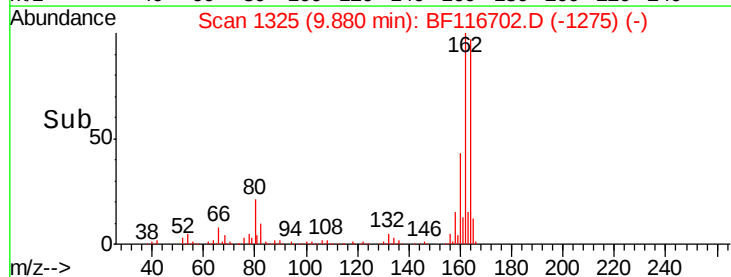
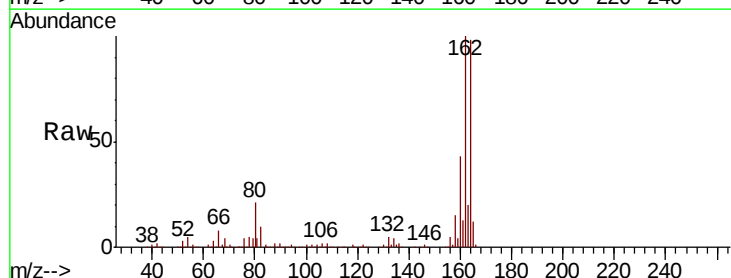
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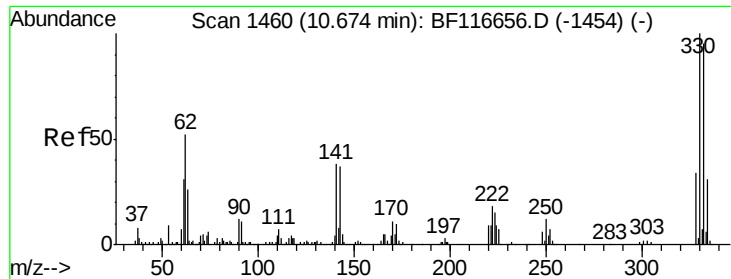
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#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.88 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Tgt Ion	164	Resp	239405
Ion Ratio	Lower	Upper	
164	100		
162	102.4	81.4	122.0
160	43.9	35.4	53.2





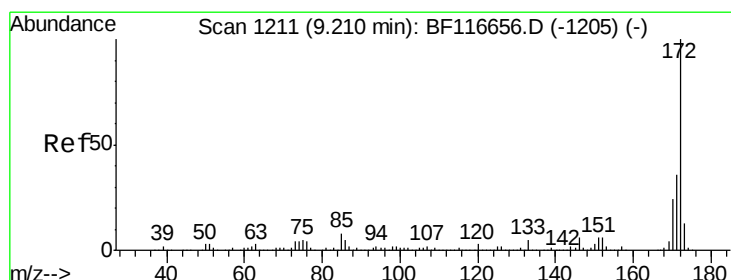
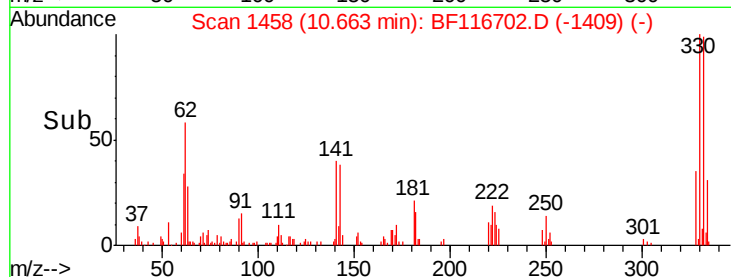
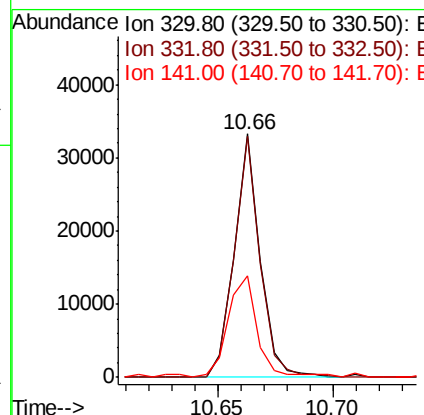
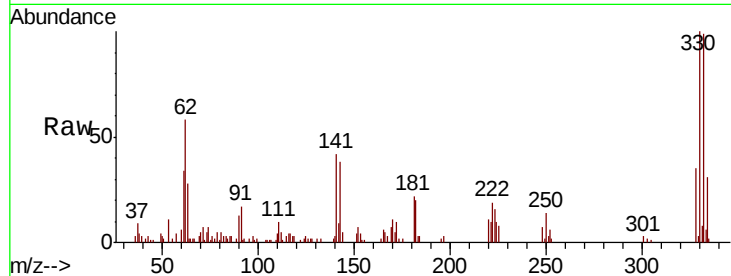
#42
 2,4,6-Tribromophenol
 Concen: 16.213 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-082919

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.6	76.9	115.3
141	48.7	31.4	47.2

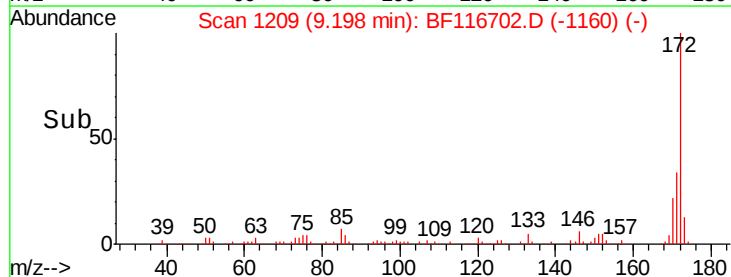
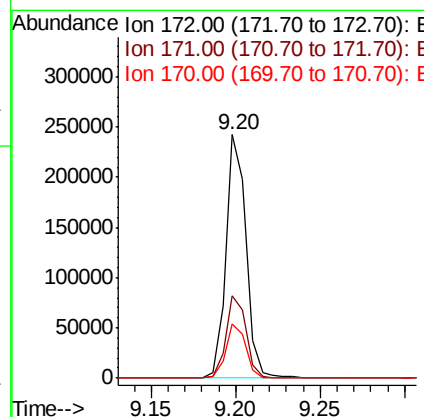
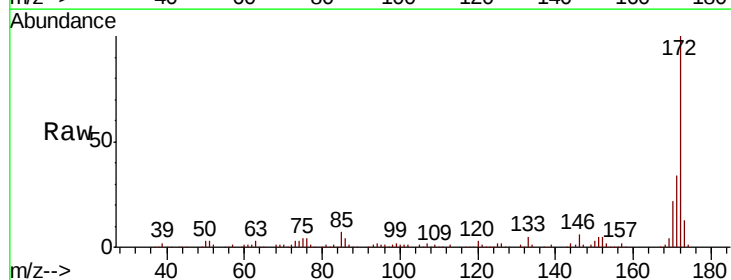
Manual Integrations
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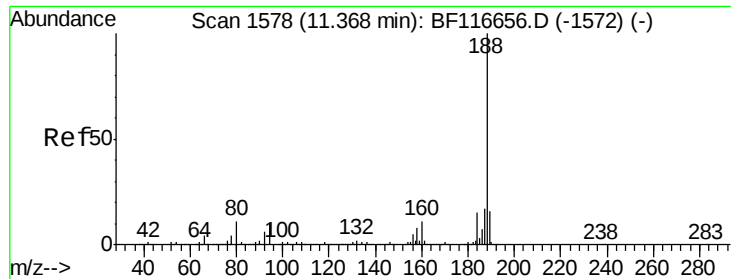
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#45
 2-Fluorobiphenyl
 Concen: 14.107 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.0	27.8	41.6
170	22.2	18.9	28.3





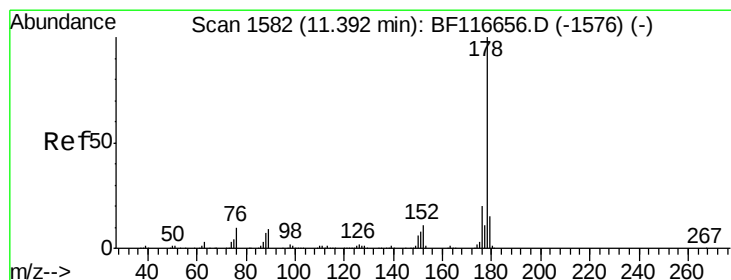
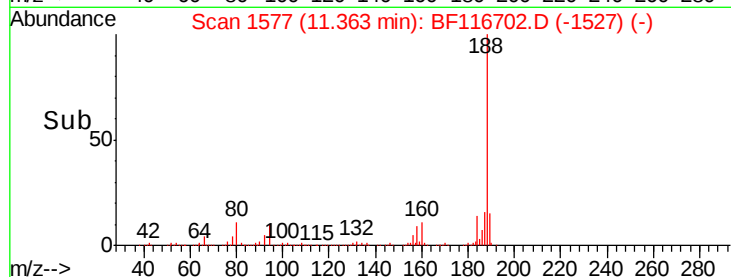
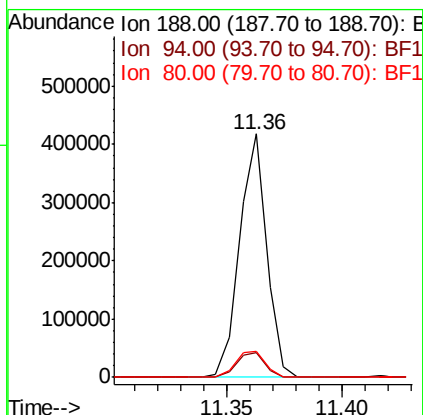
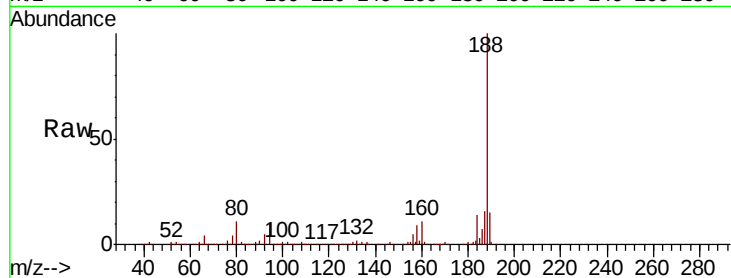
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Instrument :
BNA_F
ClientSampleId :
OR-02-082919

Tot Ion:	188	Resp:	343059
Ion Ratio	Lower	Upper	
188	100		
94	9.9	7.3	10.9
80	10.8	8.4	12.6

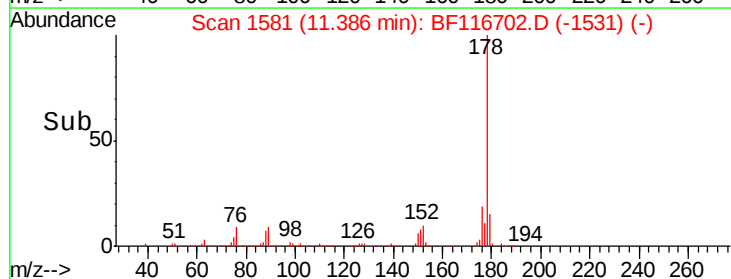
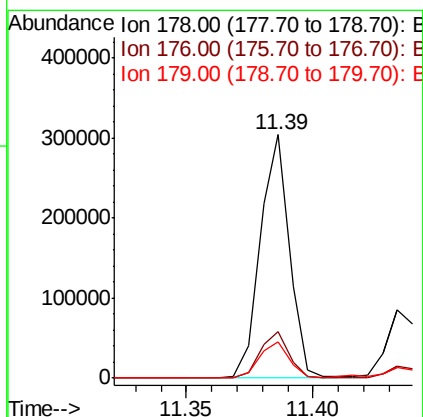
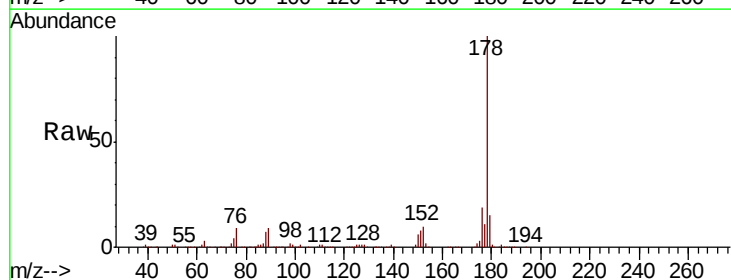
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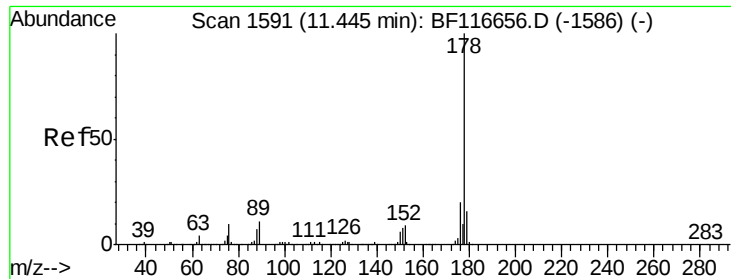
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#71
Phenanthrene
Concen: 12.794 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Tgt Ion:	178	Resp:	244332
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.4	23.0
179	14.9	12.2	18.2





#72

Anthracene

Concen: 3.646 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Instrument :

BNA_F

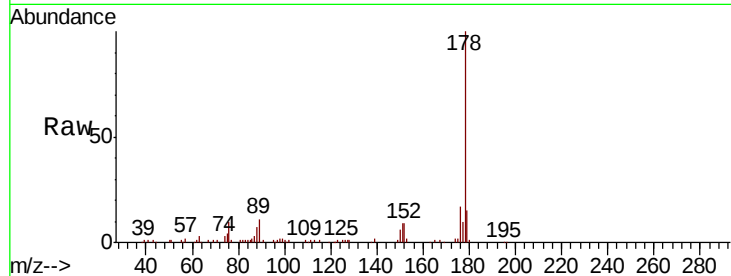
ClientSampleId :

OR-02-082919

Tot Ion:	178	Resp:	70095
Ion Ratio	Lower	Upper	
178	100		
176	17.3	15.4	23.0
179	15.1	12.5	18.7

Manual Integrations
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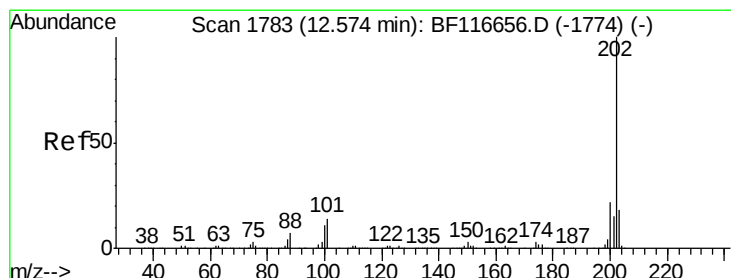
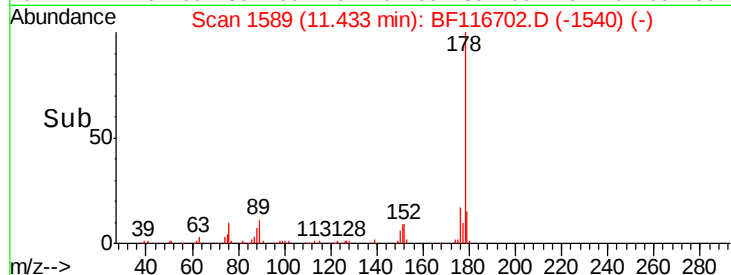
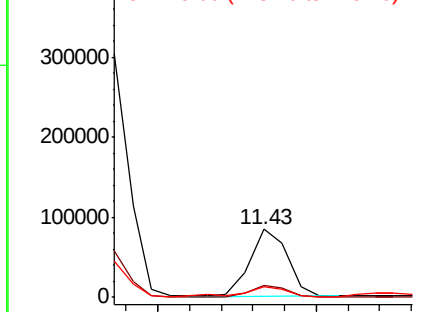


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 18.834 ng

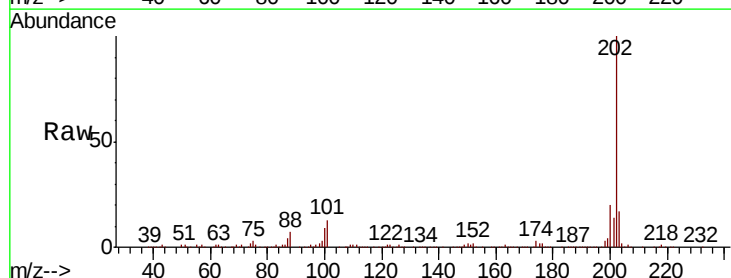
RT: 12.57 min Scan# 1782

Delta R.T. -0.01 min

Lab File: BF116702.D

Acq: 31 Aug 2019 16:33

Tgt Ion:	202	Resp:	353476
Ion Ratio	Lower	Upper	
202	100		
101	13.5	0.0	31.3
203	17.1	0.0	37.6

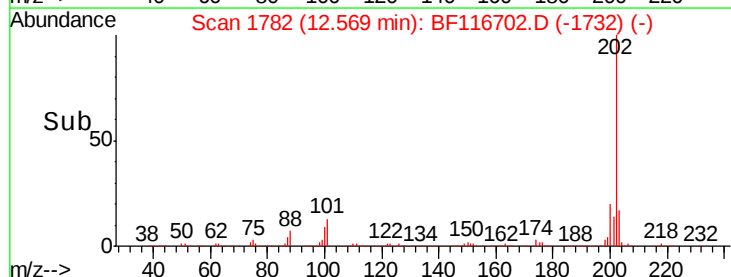
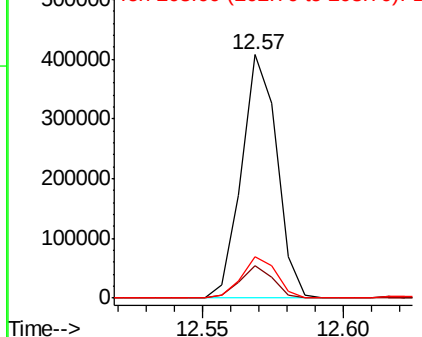


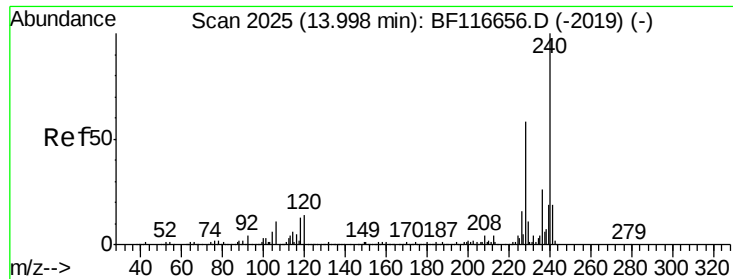
Abundance

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





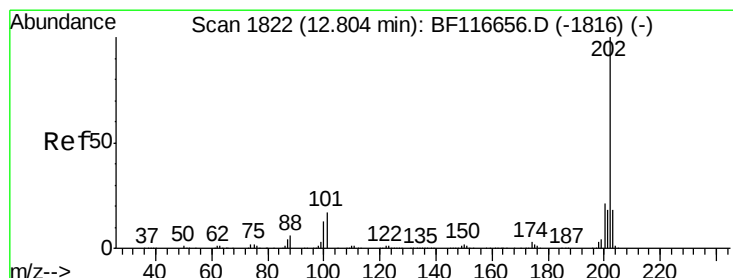
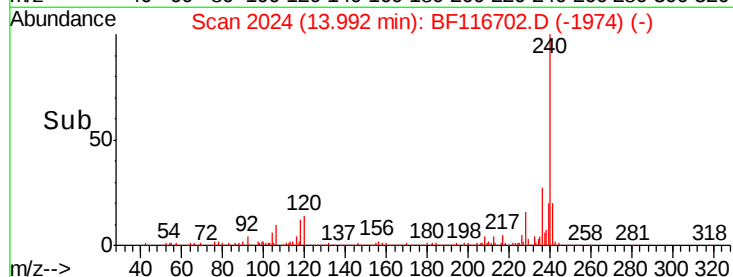
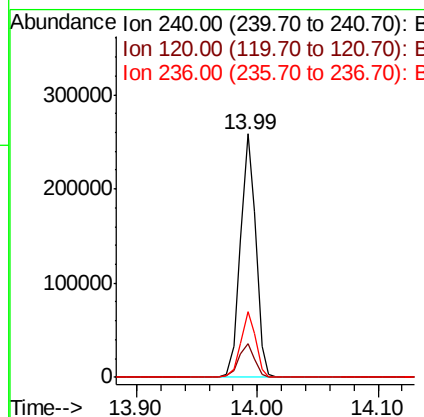
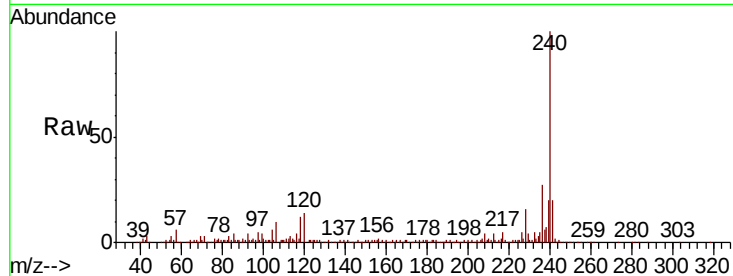
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Instrument :
BNA_F
ClientSampleId :
OR-02-082919

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.8	9.1	13.7#
236	26.9	21.1	31.7

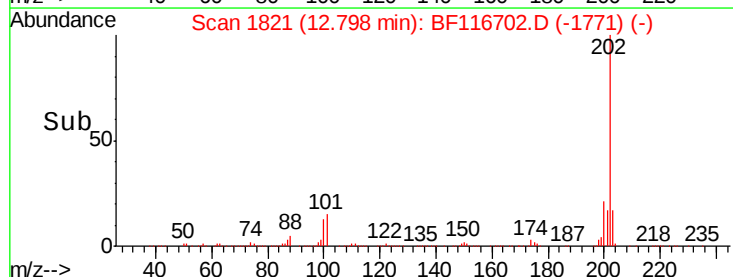
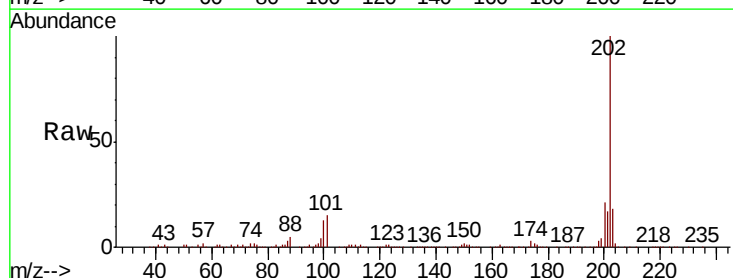
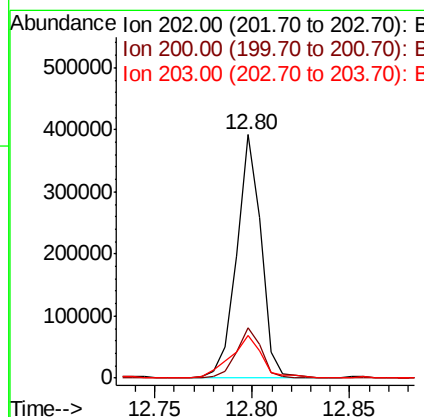
Manual Integrations
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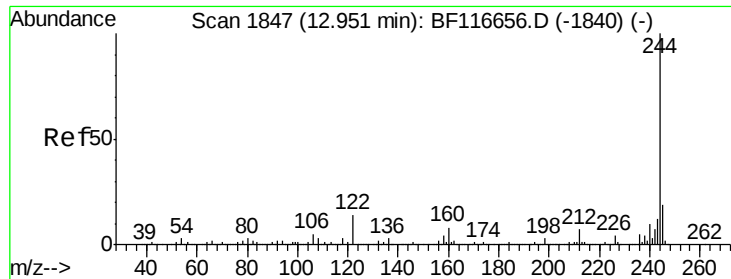
mohammad
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#78
Pyrene
Concen: 16.409 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.5	24.7
203	17.8	13.7	20.5





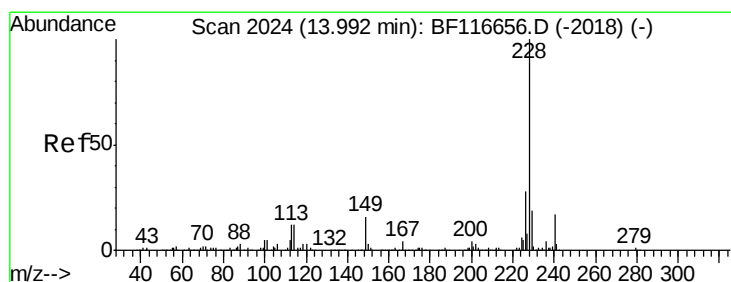
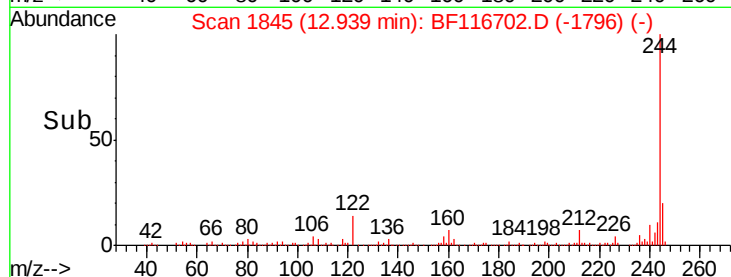
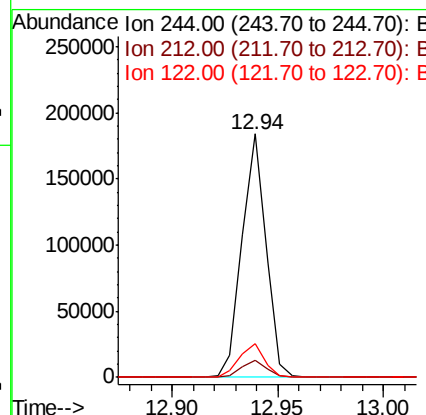
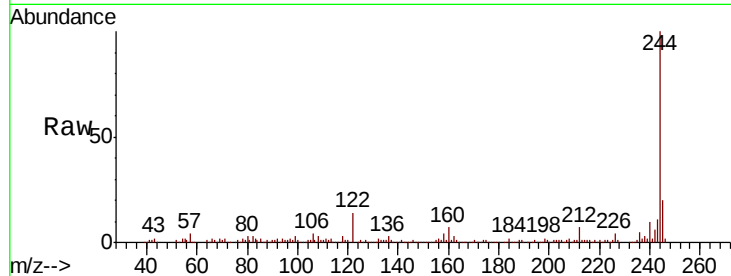
#79
 Terphenyl-d14
 Concen: 11.488 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-082919

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.1	9.1
122	13.7	10.2	15.4

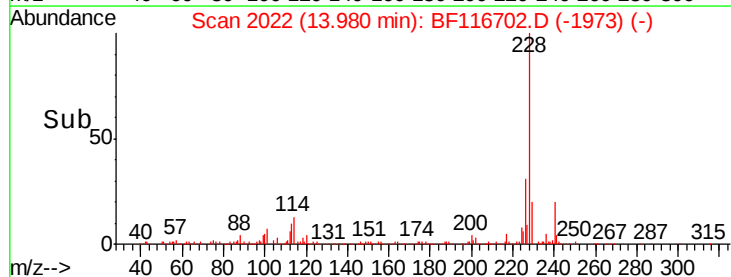
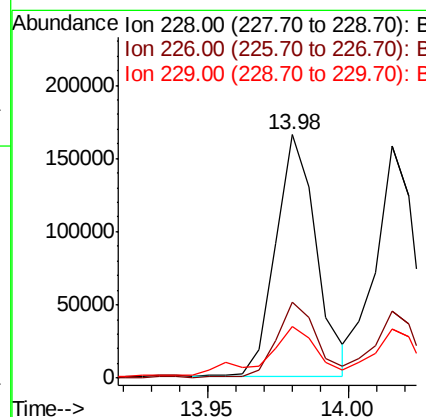
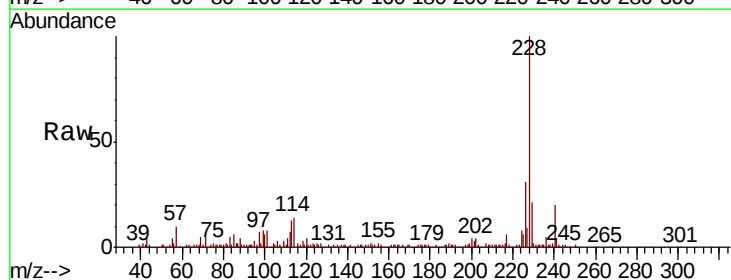
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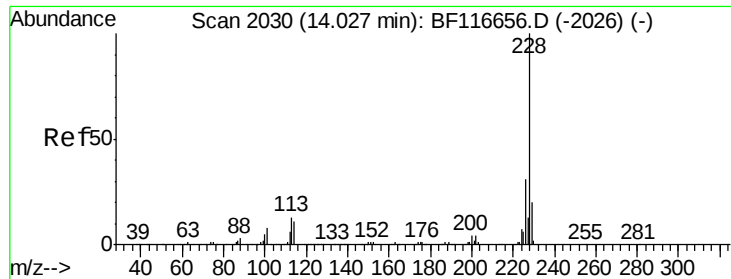
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#81
 Benzo(a)anthracene
 Concen: 11.257 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	22.0	33.0
229	21.2	16.4	24.6





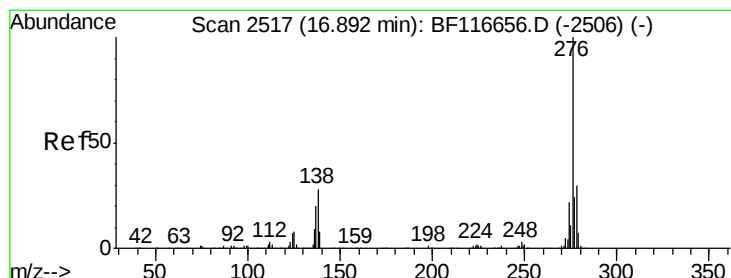
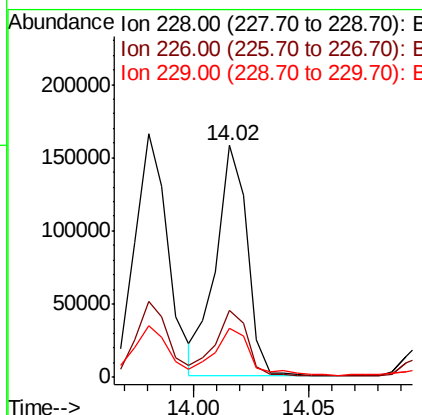
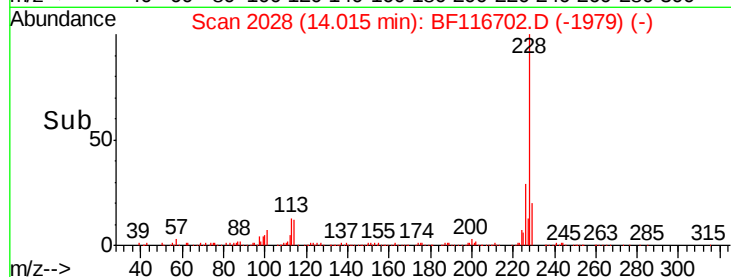
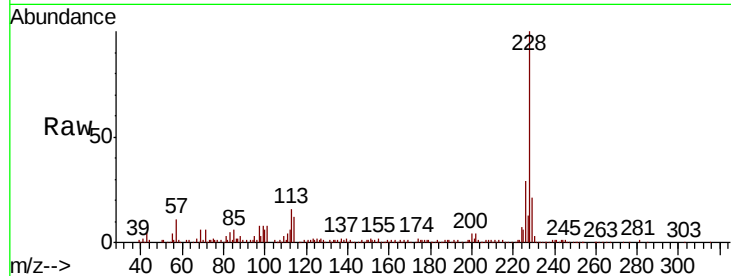
#83
Chrysene
Concen: 9.791 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Instrument :
BNA_F
ClientSampleId :
OR-02-082919

Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100				
226	29.1		24.0	36.0	
229	21.3		15.4	23.0	

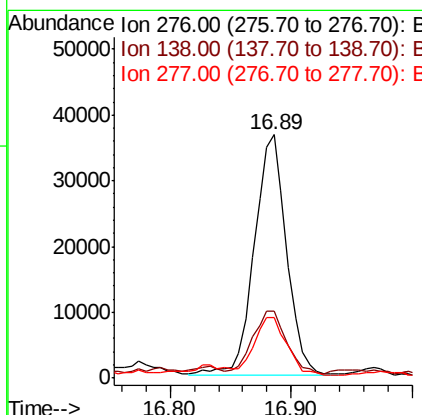
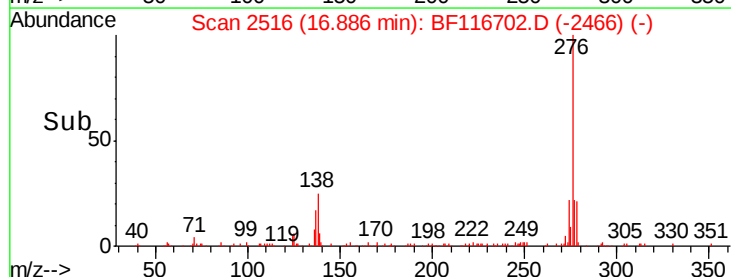
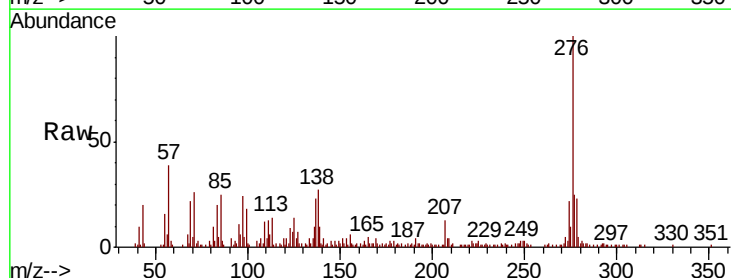
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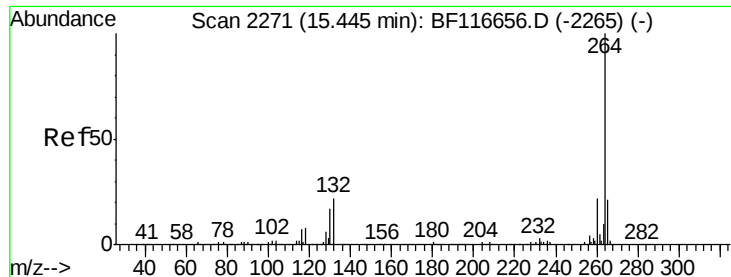
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#86
Indeno(1,2,3-cd)pyrene
Concen: 5.558 ng
RT: 16.89 min Scan# 2516
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
138	26.9		19.4	29.2	
277	24.1		20.5	30.7	





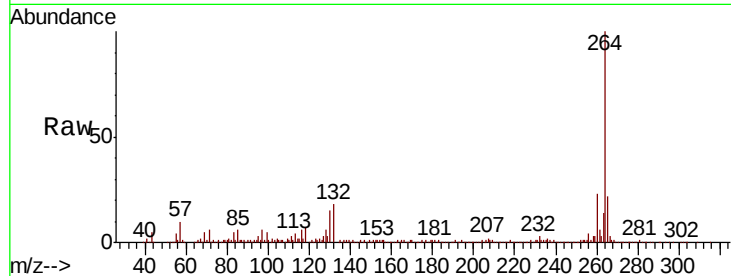
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.45 min Scan# 2272
Delta R.T. 0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Instrument :
BNA_F
ClientSampleId :
OR-02-082919

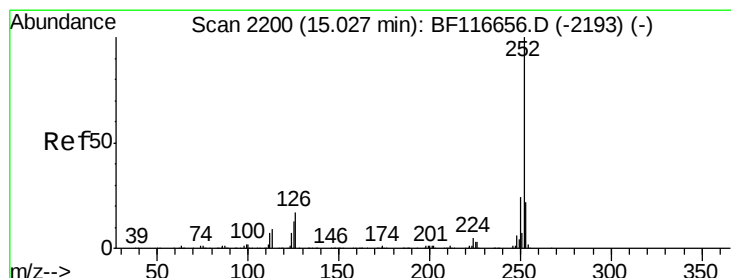
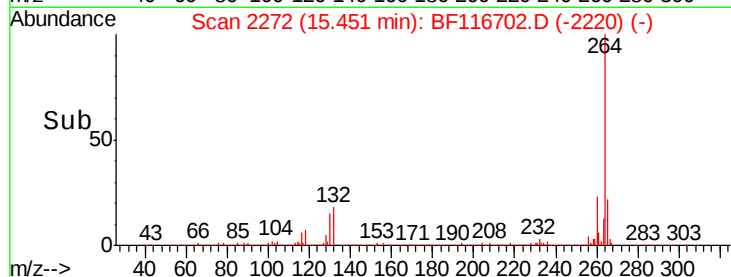
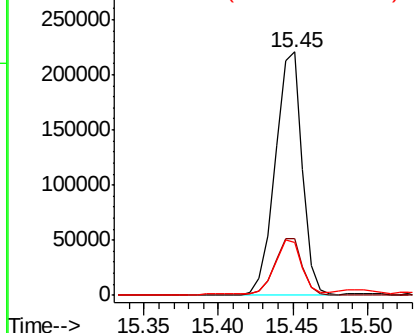
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.3	27.5
265	21.7	16.5	24.7

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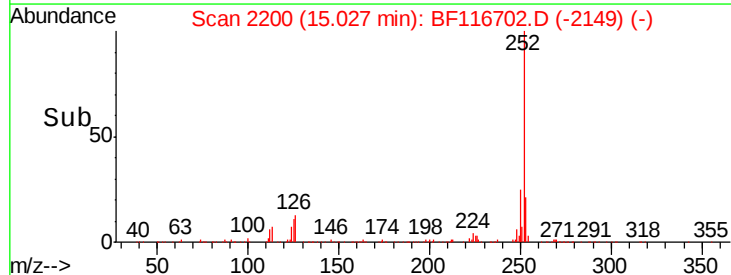
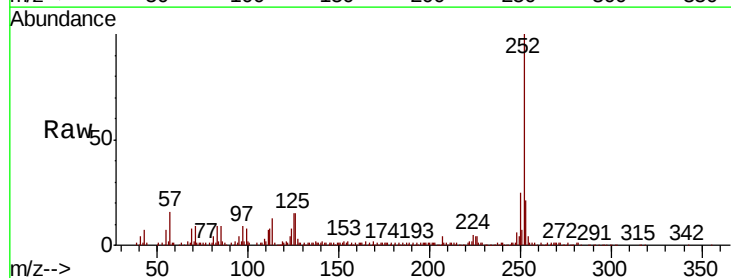
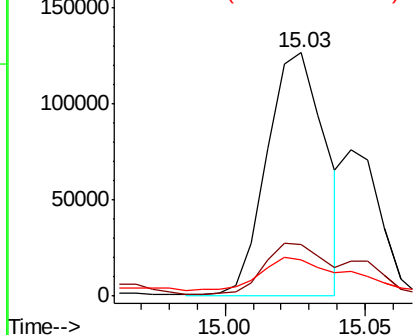
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

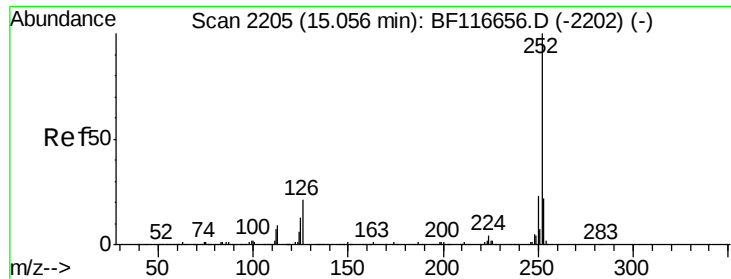


#88
Benzo(b)fluoranthene
Concen: 10.840 ng m
RT: 15.03 min Scan# 2200
Delta R.T. 0.00 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.7	26.5
125	14.9	8.2	12.2#

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





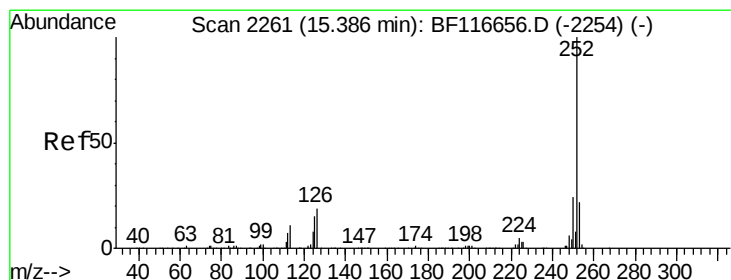
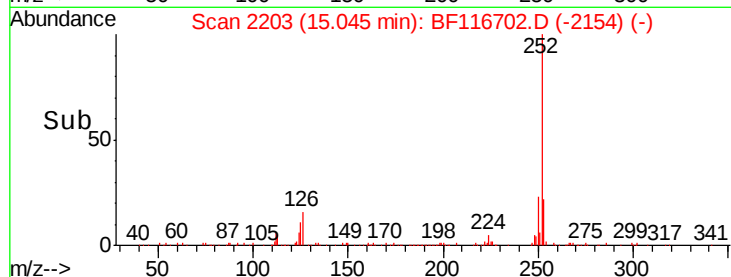
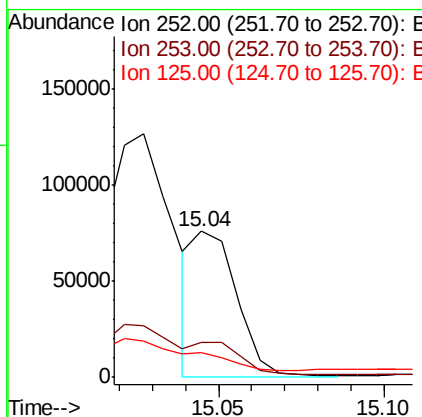
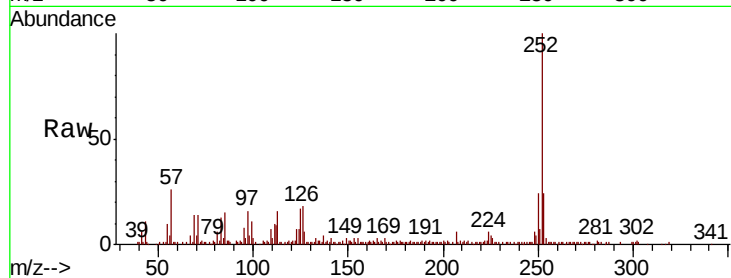
#89
Benzo(k)fluoranthene
Concen: 4.492 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Instrument :
BNA_F
ClientSampleId :
OR-02-082919

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.7	26.5
125	16.8	8.6	13.0

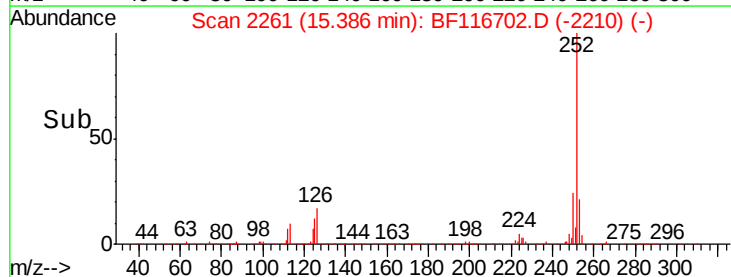
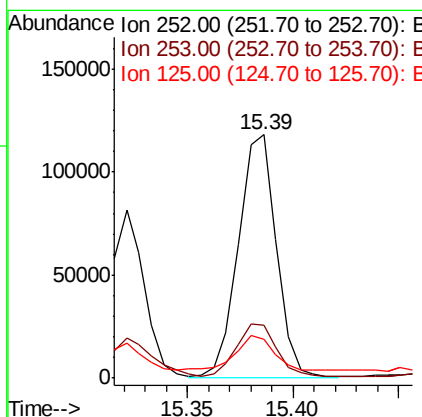
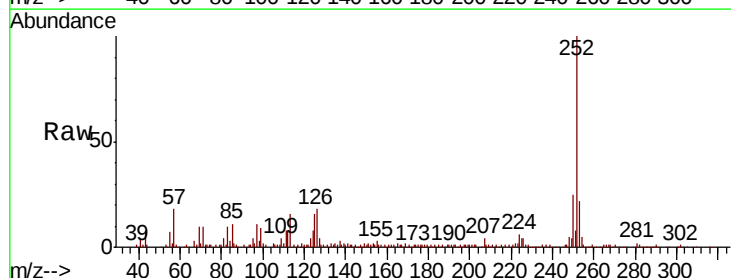
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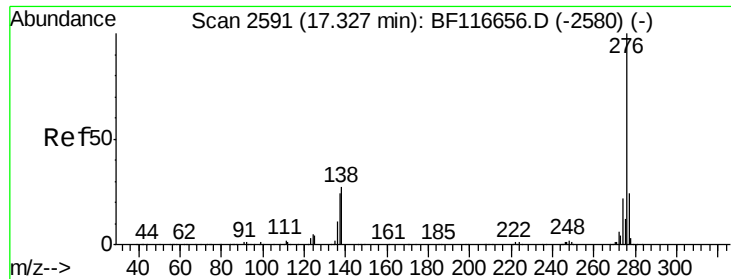
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#90
Benzo(a)pyrene
Concen: 9.933 ng
RT: 15.39 min Scan# 2261
Delta R.T. 0.00 min
Lab File: BF116702.D
Acq: 31 Aug 2019 16:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.1	27.1
125	15.9	9.8	14.8





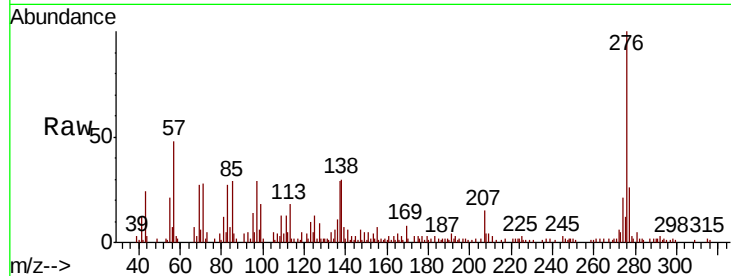
#92
 Benzo(a,h,i)perylene
 Concen: 4.527 ng
 RT: 17.32 min Scan# 2590
 Delta R.T. -0.01 min
 Lab File: BF116702.D
 Acq: 31 Aug 2019 16:33

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-082919

Tot Ion:	276	Resp:	59461
Ion Ratio		Lower	Upper
276	100		
277	25.5	18.5	27.7
138	29.8	16.2	24.2

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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

