

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\
 Data File : BF098182.D
 Acq On : 31 Aug 2017 3:34
 Operator : SJ/JU
 Sample : I5023-10 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-082917-D

Manual Integrations
 APPROVED

Sohil
 8/31/2017 7:13:22 PM

Quant Time: Aug 31 08:44:12 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	128274	20.00	ng	-0.02
21) Naphthalene-d8	8.01	136	479074	20.00	ng	-0.02
38) Acenaphthene-d10	9.76	164	185238	20.00	ng	-0.02
63) Phenanthrene-d10	11.24	188	300770	20.00	ng	-0.02
75) Chrysene-d12	13.87	240	248207	20.00	ng	-0.02
86) Perylene-d12	15.29	264	175764	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	172006	20.40	ng	-0.03
7) Phenol-d6	6.36	99	229580	20.04	ng	-0.03
23) Nitrobenzene-d5	7.29	82	128906	14.62	ng	-0.04
41) 2,4,6-Tribromophenol	10.54	330	26758	16.65	ng	-0.03
44) 2-Fluorobiphenyl	9.08	172	213136	16.90	ng	-0.03
78) Terphenyl-d14	12.82	244	144703	12.16	ng	-0.03
Target Compounds						
70) Phenanthrene	11.26	178	84014	5.242	ng	99
74) Fluoranthene	12.45	202	201279	12.032	ng	99
77) Pyrene	12.68	202	190748	9.396	ng	97
80) Benzo(a)anthracene	13.86	228	91332	6.140	ng	98
82) Chrysene	13.90	228	85655	5.788	ng	97
85) Indeno(1,2,3-cd)pyrene	16.66	276	30240	2.778	ng	92
87) Benzo(b)fluoranthene	14.89	252	94005m	8.485	ng	
88) Benzo(k)fluoranthene	14.92	252	22730m	2.184	ng	
89) Benzo(a)pyrene	15.23	252	58450	5.959	ng	# 94
91) Benzo(g,h,i)perylene	17.08	276	31413	3.770	ng	93

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

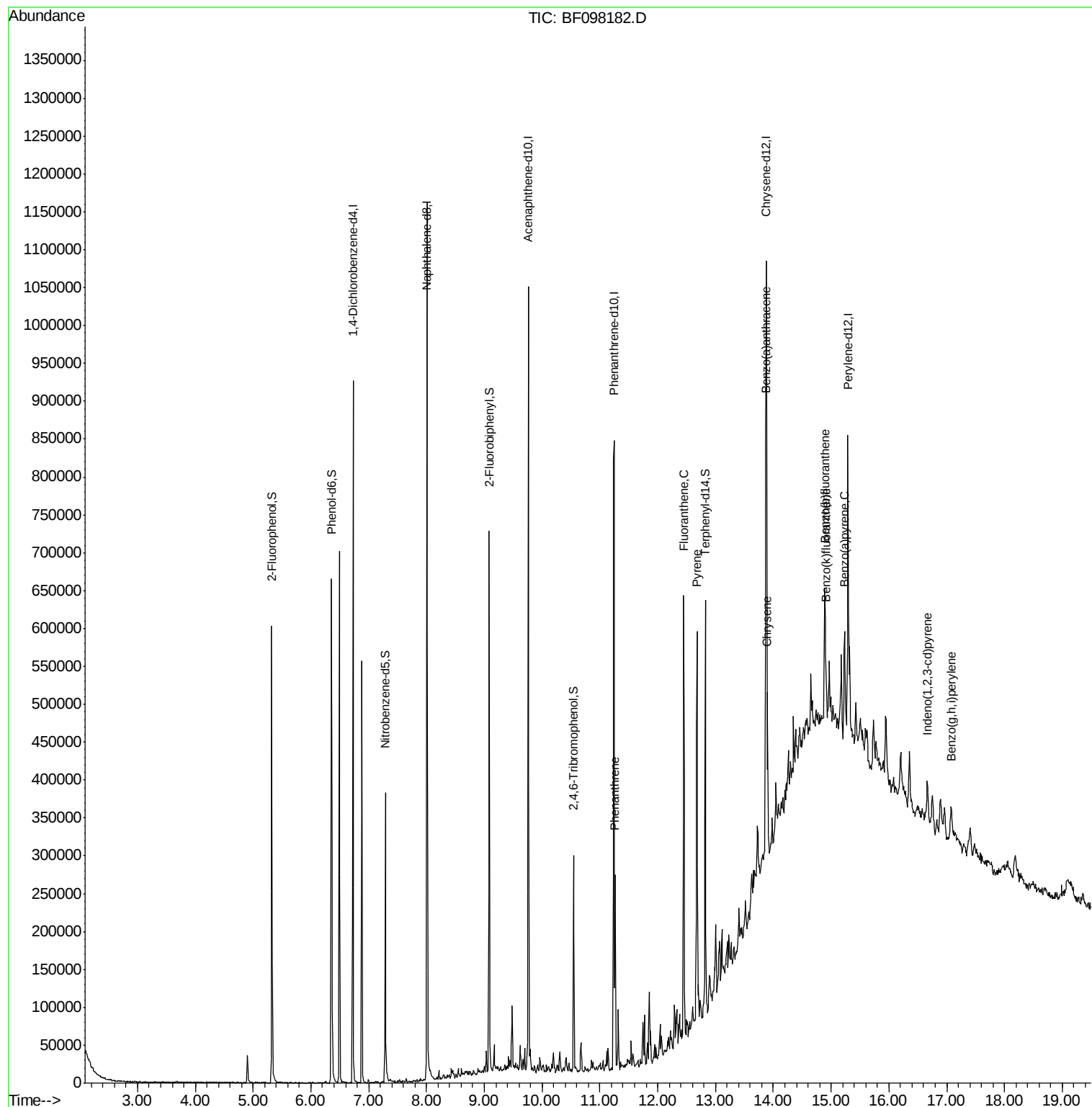
Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\
Data File : BF098182.D
Acq On : 31 Aug 2017 3:34
Operator : SJ/JU
Sample : I5023-10 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-D

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:22 PM

Quant Time: Aug 31 08:44:12 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 21 15:59:04 2017
Response via : Initial Calibration





#1

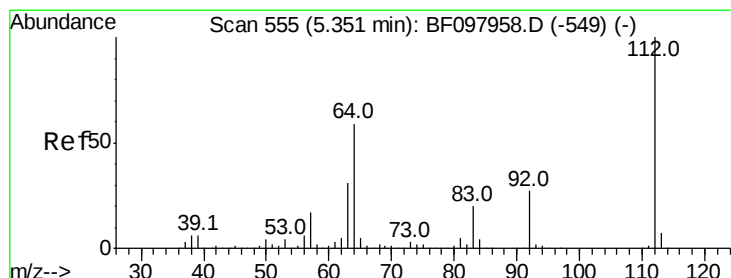
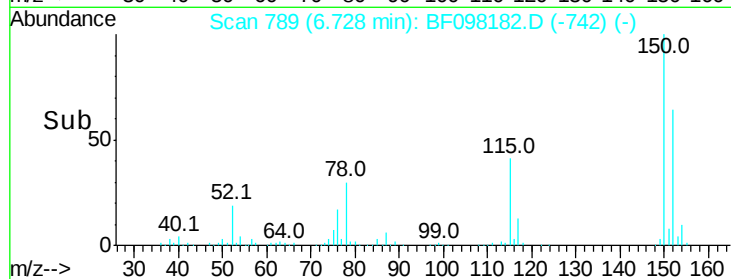
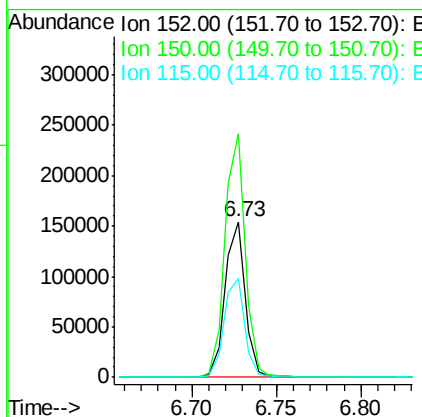
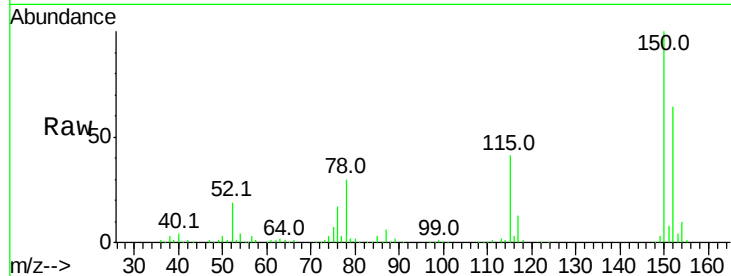
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.02 min
Lab File: BF098182.D
Acq: 31 Aug 2017 3:34

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-D

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.3	126.2	189.2
115	63.4	52.2	78.2

Manual Integrations
APPROVED

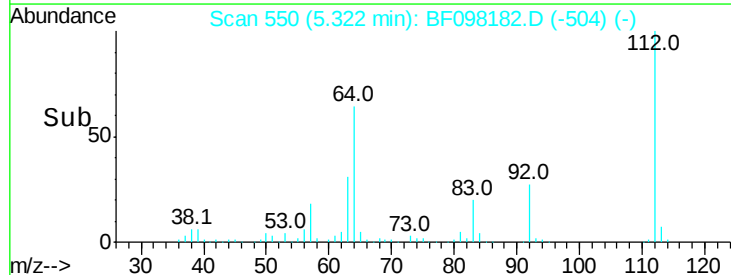
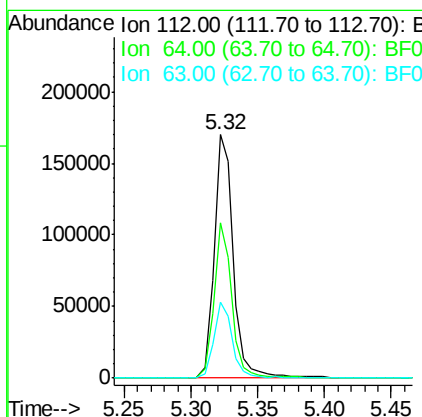
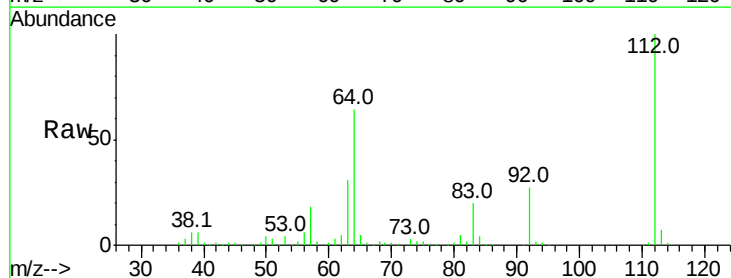
Sohil
8/31/2017 7:13:22 PM

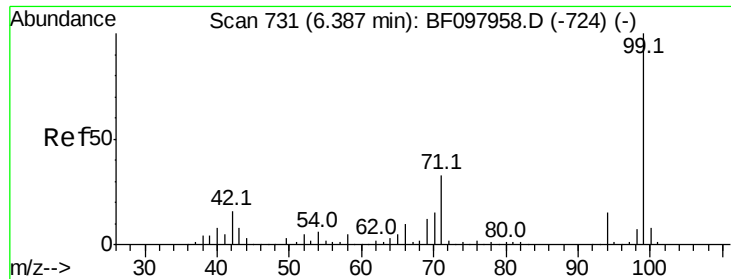


#5

2-Fluorophenol
Concen: 20.396 ng
RT: 5.32 min Scan# 550
Delta R.T. -0.03 min
Lab File: BF098182.D
Acq: 31 Aug 2017 3:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.6	46.0	69.0
63	31.2	23.4	35.0





#7

Phenol-d6

Concen: 20.036 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.03 min

Lab File: BF098182.D

Acq: 31 Aug 2017 3:34

Instrument :

BNA_F

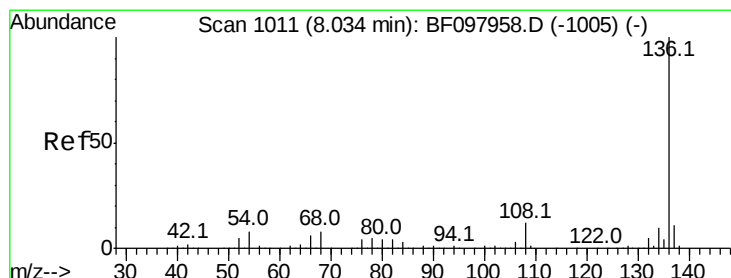
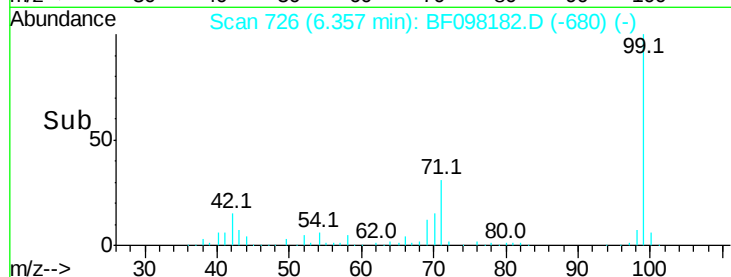
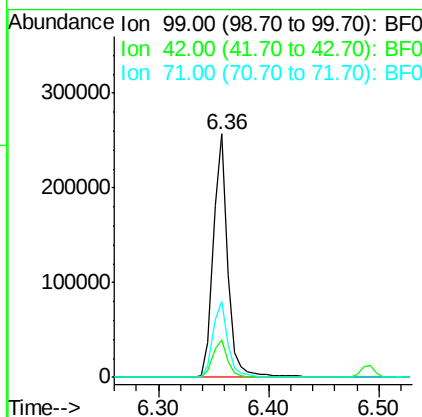
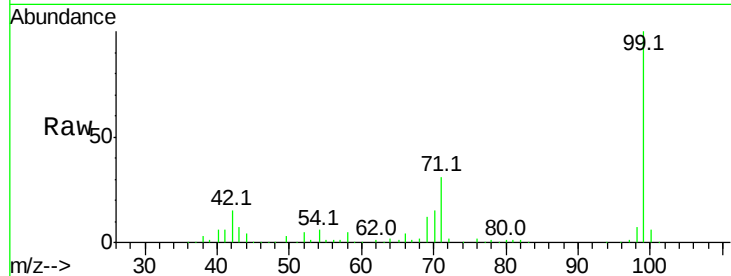
ClientSampleId :

PL-01-082917-D

Tot Ion:	99	Resp:	229580
Ion Ratio	Lower	Upper	
99	100		
42	15.2	13.5	20.3
71	31.3	24.5	36.7

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:22 PM



#21

Naphthalene-d8

Concen: 20.000 ng

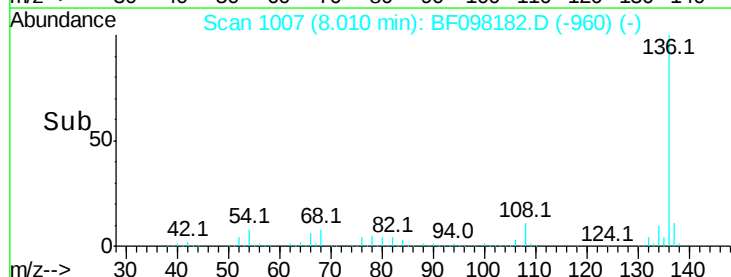
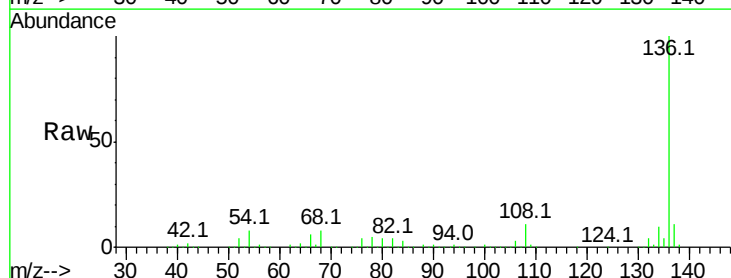
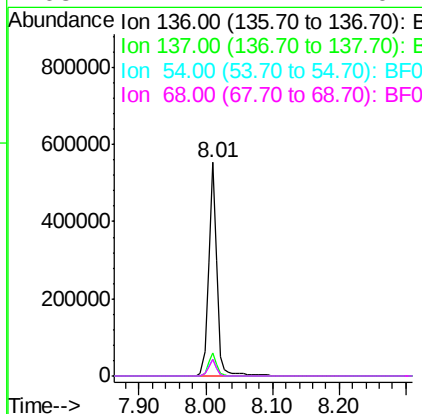
RT: 8.01 min Scan# 1007

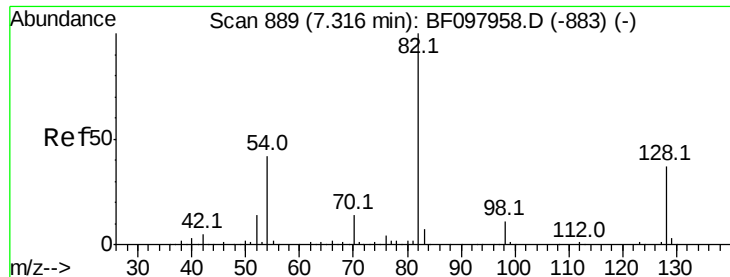
Delta R.T. -0.02 min

Lab File: BF098182.D

Acq: 31 Aug 2017 3:34

Tgt Ion:	136	Resp:	479074
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	7.6	4.9	7.3#
68	7.7	4.1	6.1#





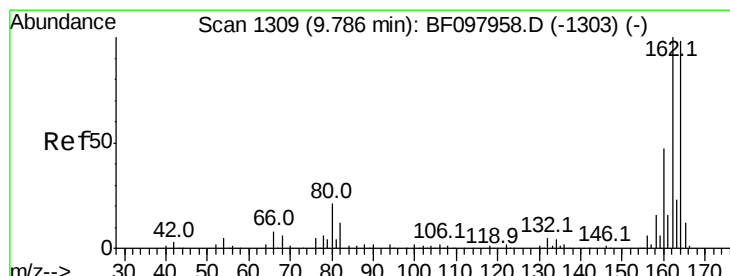
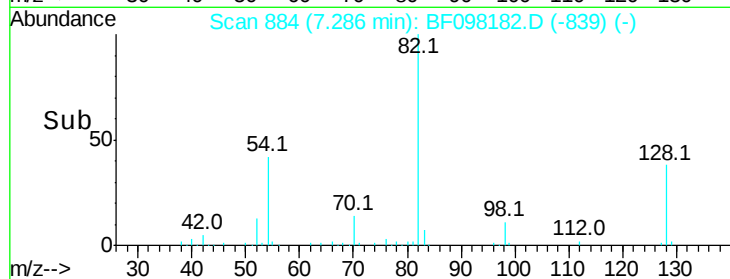
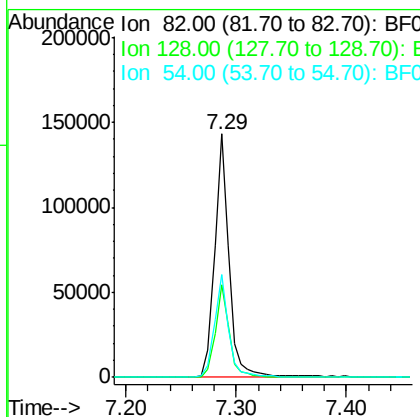
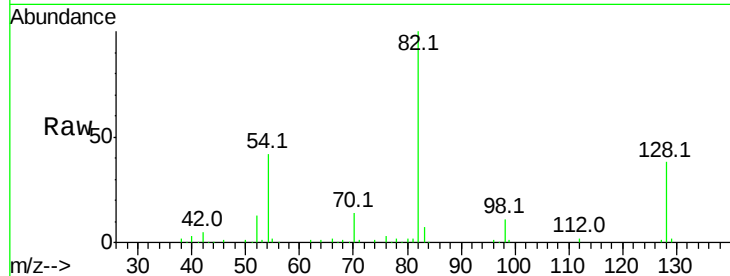
#23
Nitrobenzene-d5
Concen: 14.617 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.04 min
Lab File: BF098182.D
Acq: 31 Aug 2017 3:34

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-D

Tot Ion	82	Resp	128906
Ion Ratio	Lower	Upper	
82	100		
128	38.2	34.0	51.0
54	42.4	42.2	63.2

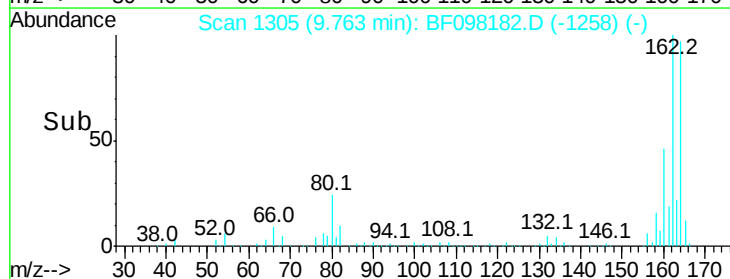
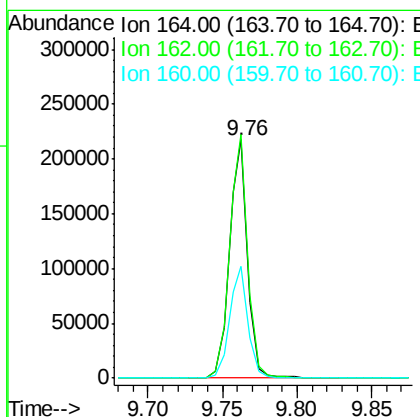
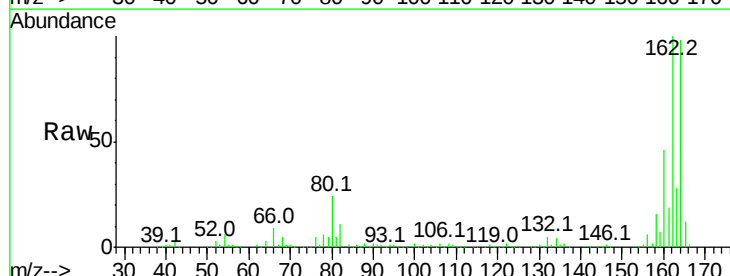
Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:22 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.02 min
Lab File: BF098182.D
Acq: 31 Aug 2017 3:34

Tgt Ion	164	Resp	185238
Ion Ratio	Lower	Upper	
164	100		
162	102.4	82.6	123.8
160	47.3	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 16.648 ng

RT: 10.54 min Scan# 1438

Delta R.T. -0.03 min

Lab File: BF098182.D

Acq: 31 Aug 2017 3:34

Instrument :

BNA_F

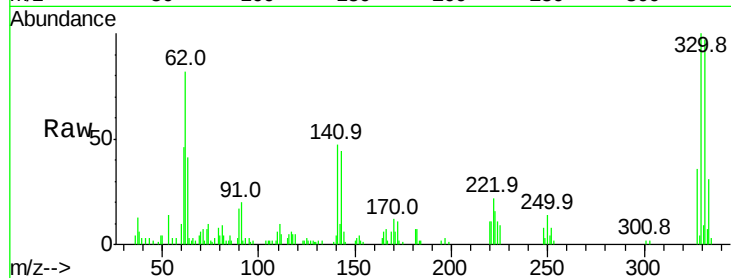
ClientSampleId :

PL-01-082917-D

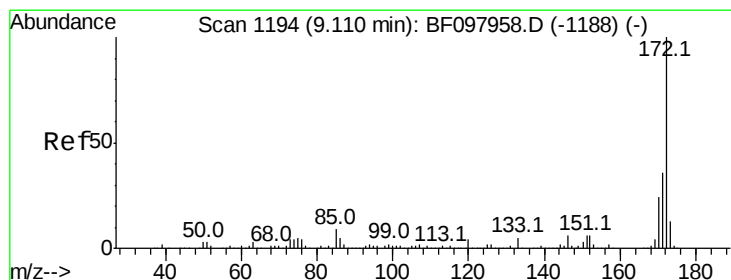
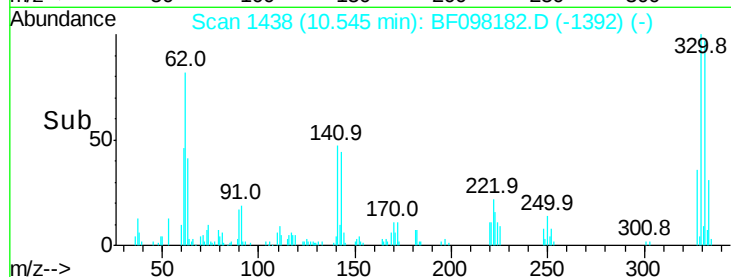
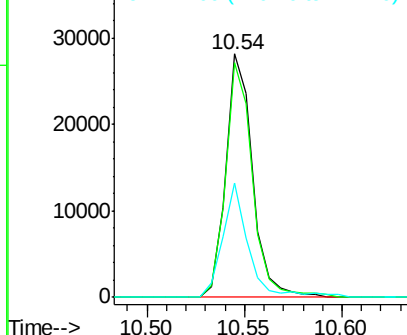
Tot Ion:	330	Resp:	26758
Ion Ratio	Lower	Upper	
330	100		
332	96.6	76.6	115.0
141	45.4	31.4	47.2

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:22 PM



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 16.905 ng

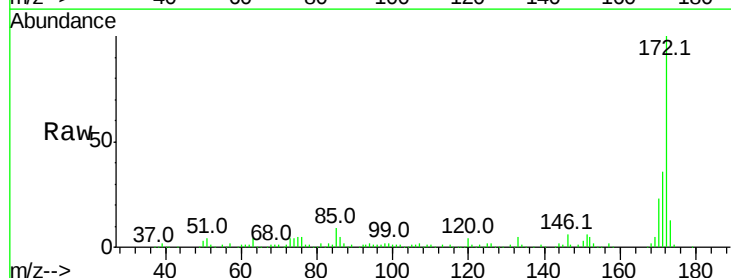
RT: 9.08 min Scan# 1189

Delta R.T. -0.03 min

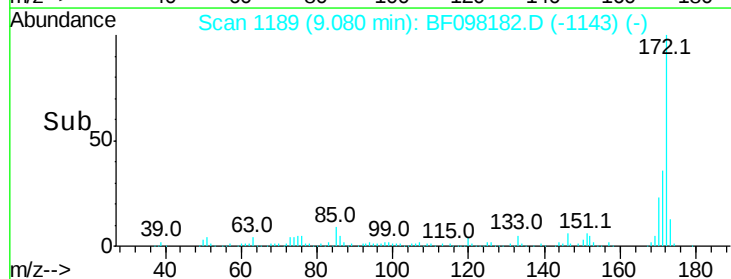
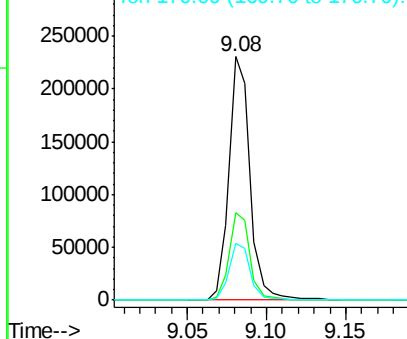
Lab File: BF098182.D

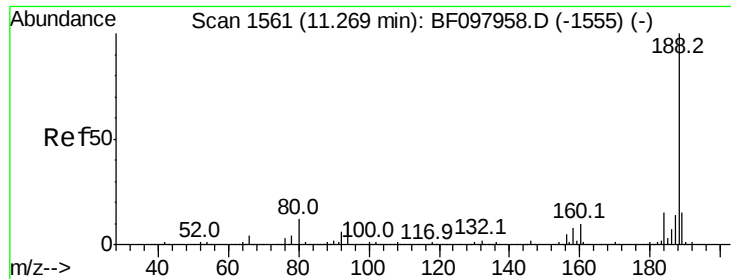
Acq: 31 Aug 2017 3:34

Tgt Ion:	172	Resp:	213136
Ion Ratio	Lower	Upper	
172	100		
171	35.8	29.6	44.4
170	23.3	19.8	29.8



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





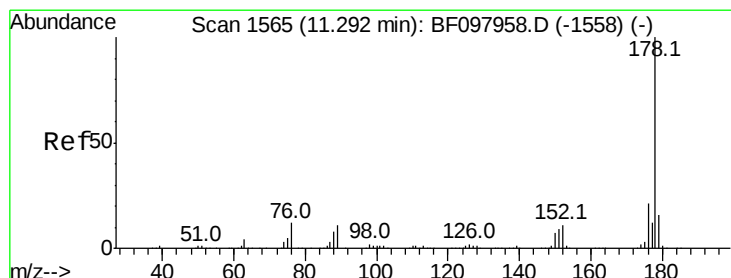
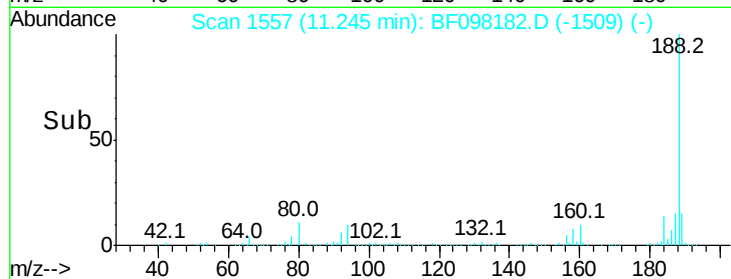
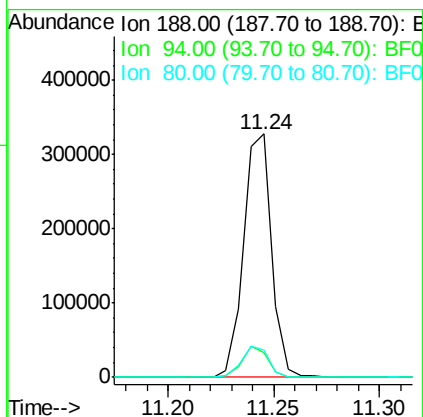
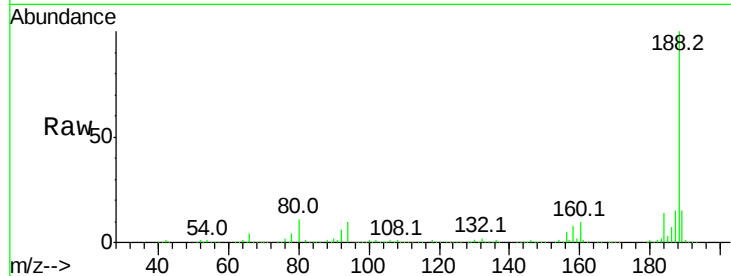
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1557
Delta R.T. -0.02 min
Lab File: BF098182.D
Acq: 31 Aug 2017 3:34

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-D

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.3	9.4	14.2
80	11.3	10.2	15.2

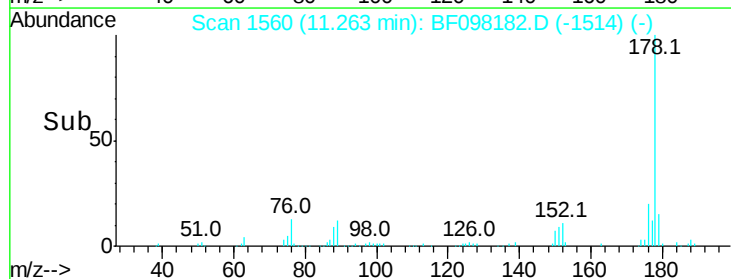
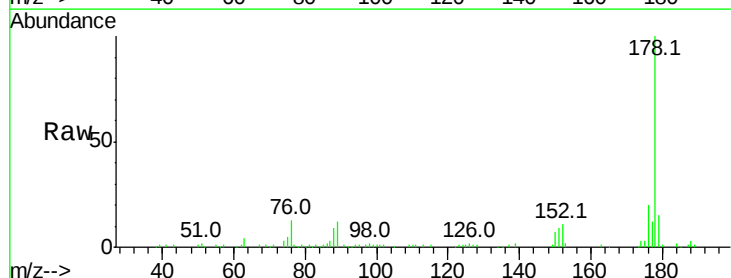
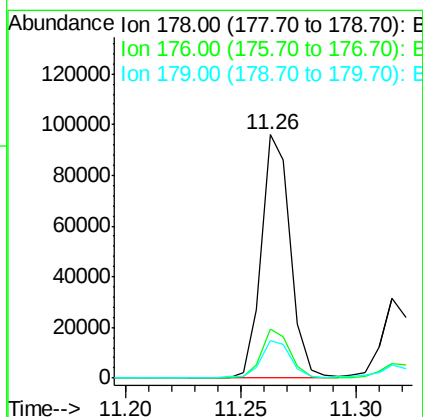
Manual Integrations
APPROVED

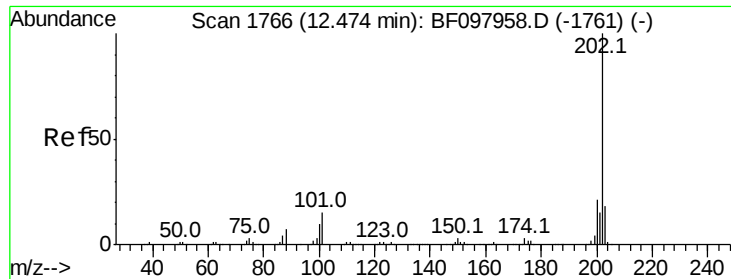
Sohil
8/31/2017 7:13:22 PM



#70
Phenanthrene
Concen: 5.242 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.03 min
Lab File: BF098182.D
Acq: 31 Aug 2017 3:34

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.1	16.2	24.4
179	15.2	12.6	19.0





#74

Fluoranthene

Concen: 12.032 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.02 min

Lab File: BF098182.D

Acq: 31 Aug 2017 3:34

Instrument :

BNA_F

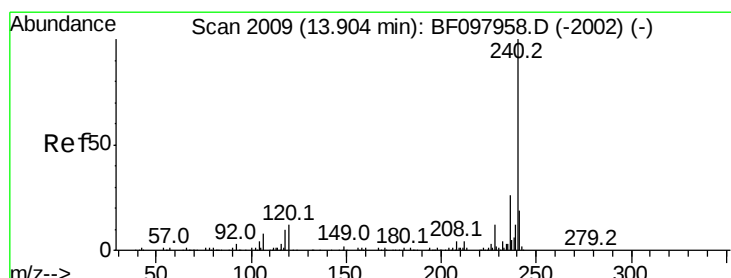
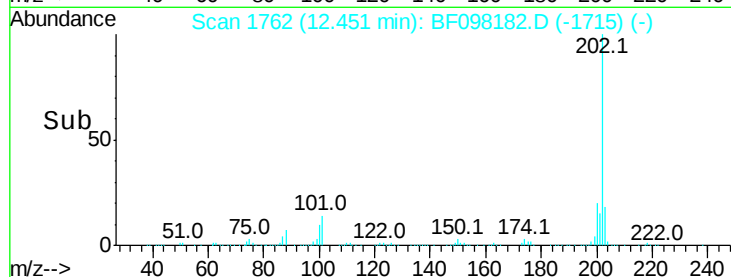
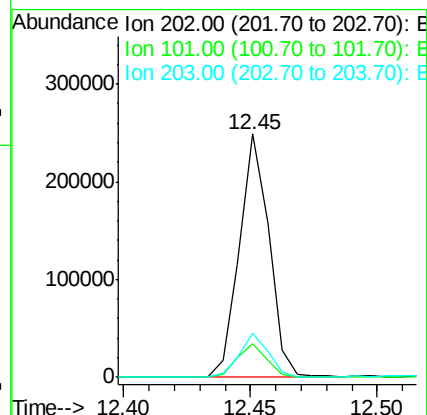
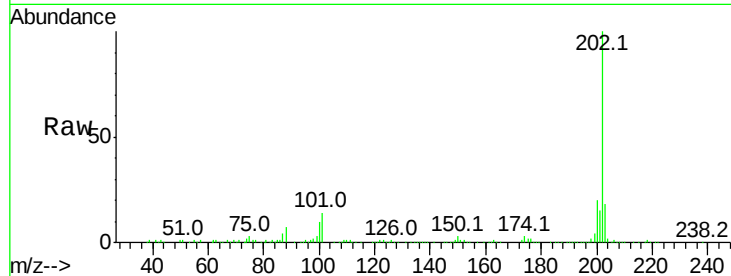
ClientSampleId :

PL-01-082917-D

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	13.6	0.0	33.2
203	17.8	0.0	38.1

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:22 PM



#75

Chrysene-d12

Concen: 20.000 ng

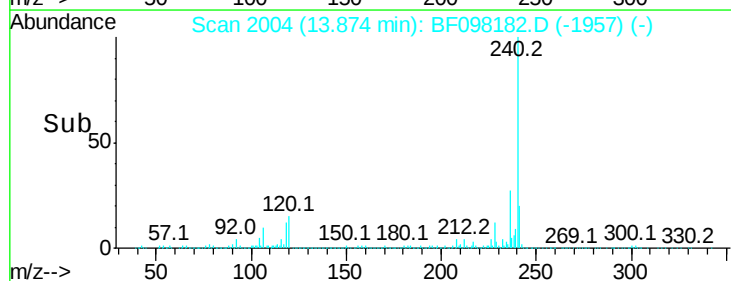
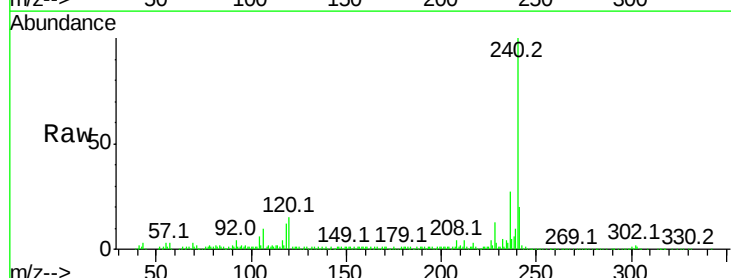
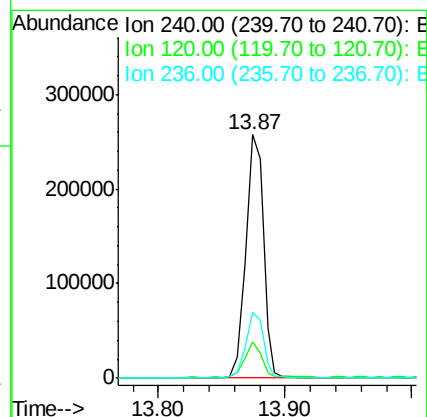
RT: 13.87 min Scan# 2004

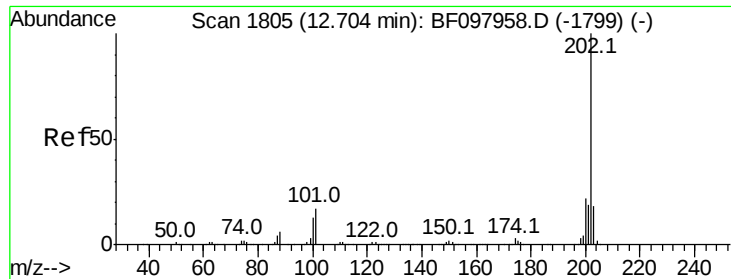
Delta R.T. -0.02 min

Lab File: BF098182.D

Acq: 31 Aug 2017 3:34

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	15.1	5.8	8.8#
236	27.0	20.5	30.7





#77

Pvrene

Concen: 9.396 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.02 min

Lab File: BF098182.D

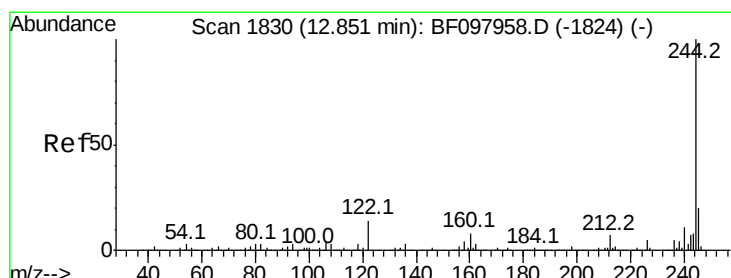
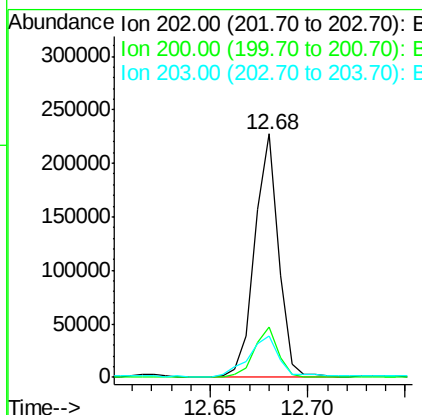
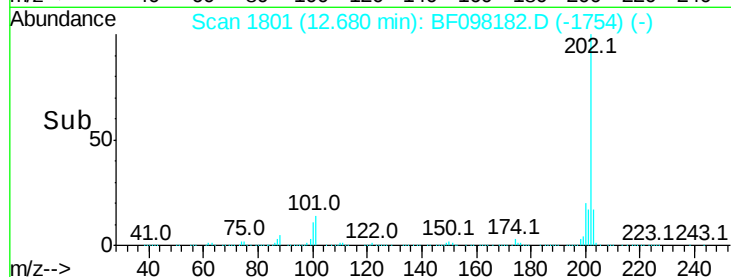
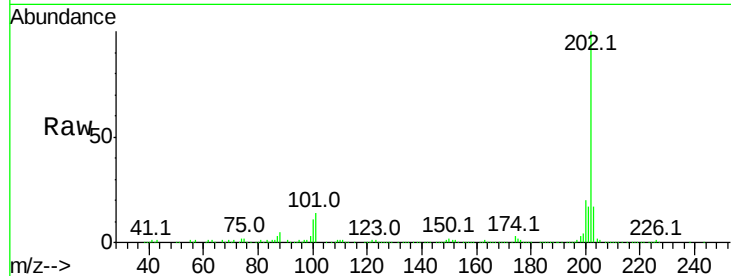
Acq: 31 Aug 2017 3:34

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-D

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.4	17.6	26.4
203	17.2	14.4	21.6

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:22 PM



#78

Terphenyl-d14

Concen: 12.157 ng

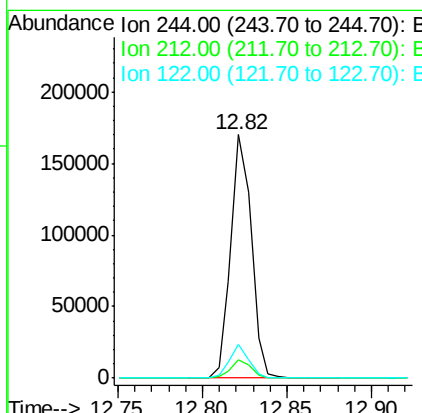
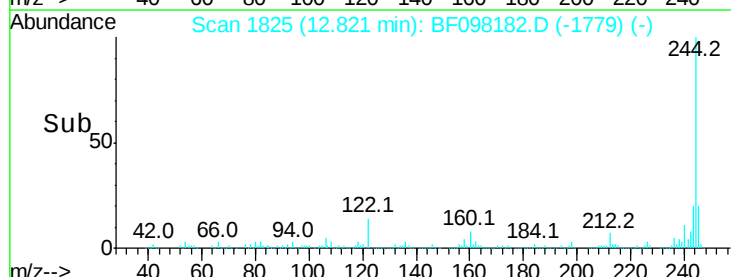
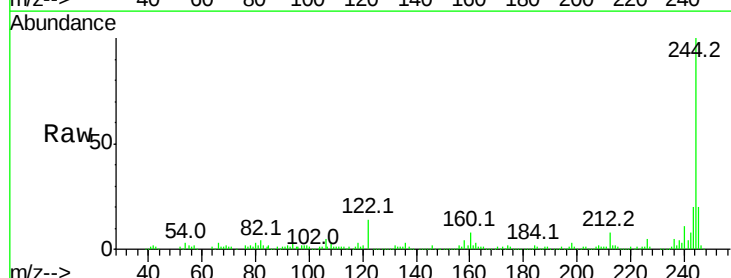
RT: 12.82 min Scan# 1825

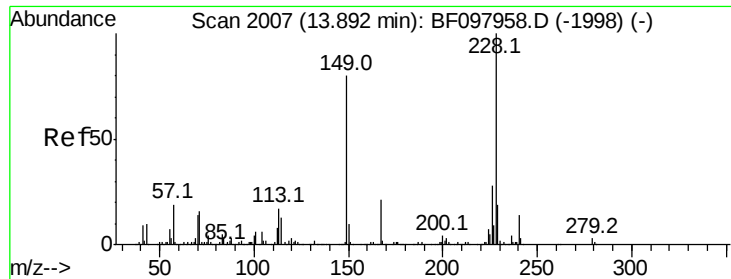
Delta R.T. -0.03 min

Lab File: BF098182.D

Acq: 31 Aug 2017 3:34

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.6	6.0	9.0
122	13.7	10.3	15.5





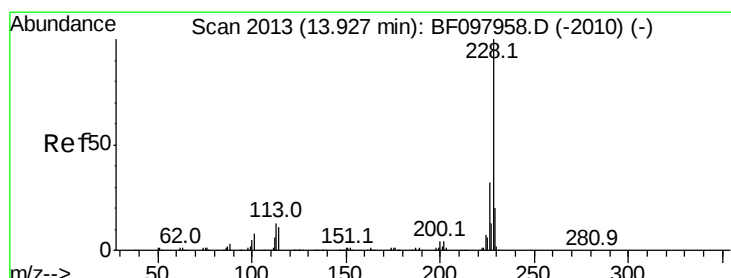
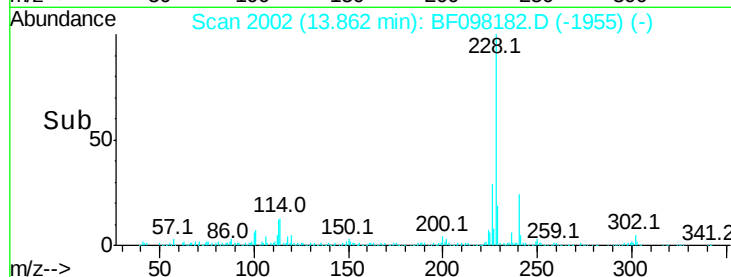
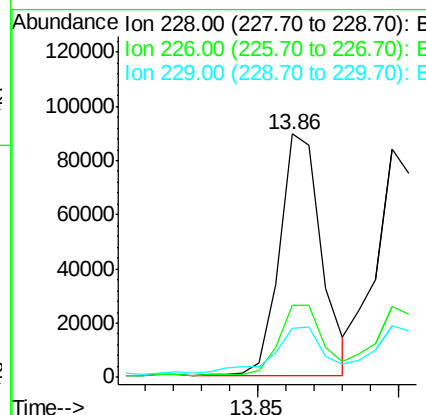
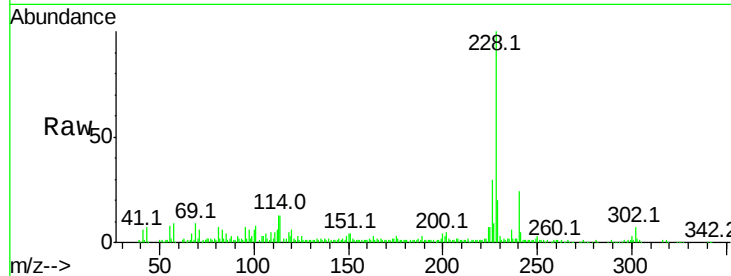
#80
Benzo(a)anthracene
Concen: 6.140 ng
RT: 13.86 min Scan# 2002
Delta R.T. -0.02 min
Lab File: BF098182.D
Acq: 31 Aug 2017 3:34

Instrument :
BNA_F
ClientSampleId :
PL-01-082917-D

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.6	33.8
229	20.2	16.3	24.5

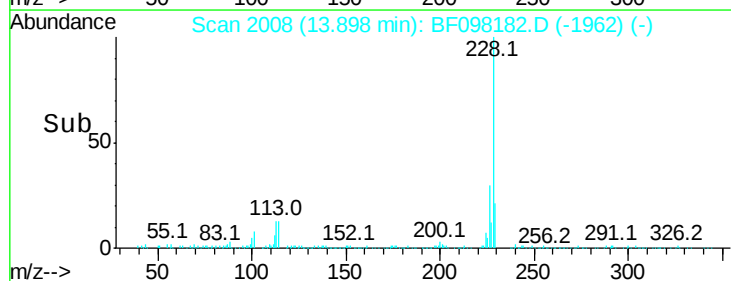
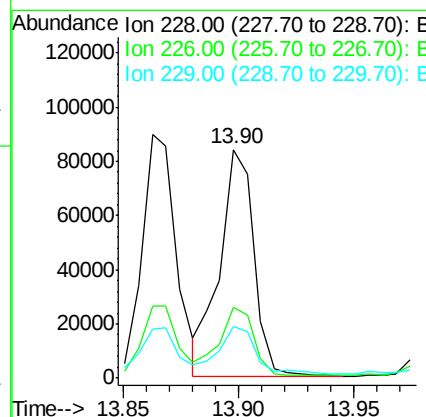
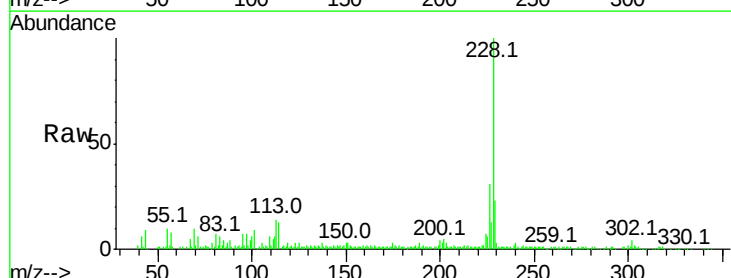
Manual Integrations
APPROVED

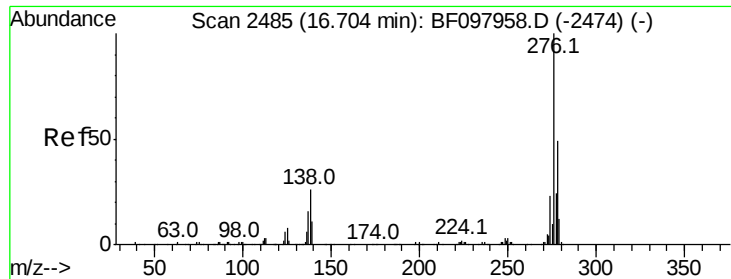
Sohil
8/31/2017 7:13:22 PM



#82
Chrysene
Concen: 5.788 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.03 min
Lab File: BF098182.D
Acq: 31 Aug 2017 3:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.9	37.3
229	22.6	15.8	23.6





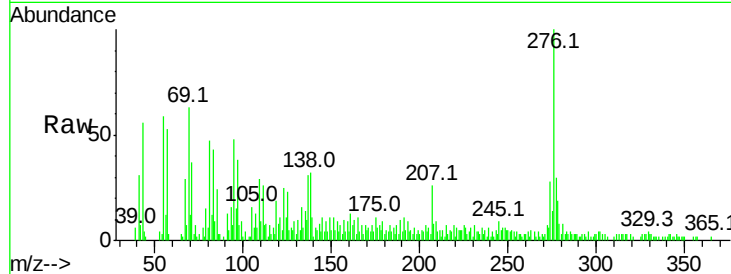
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.778 ng
 RT: 16.66 min Scan# 2478
 Delta R.T. -0.02 min
 Lab File: BF098182.D
 Acq: 31 Aug 2017 3:34

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-082917-D

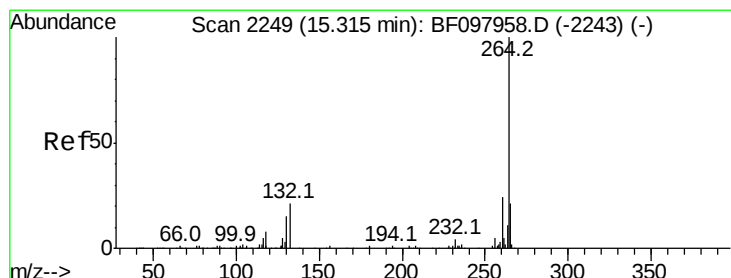
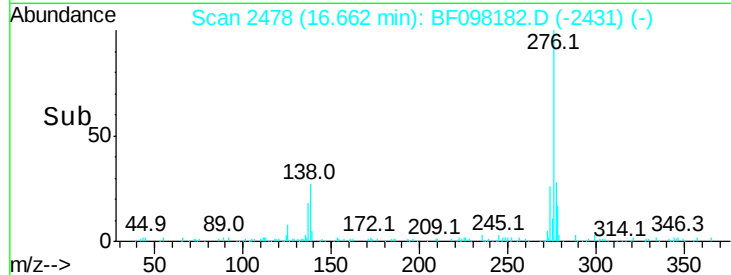
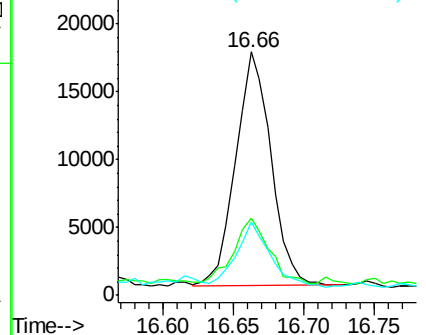
Tot Ion:	276	Resp:	30240
Ion Ratio	Lower	Upper	
276	100		
138	28.2	27.8	41.6
277	27.2	20.2	30.4

Manual Integrations
 APPROVED

Sohil
 8/31/2017 7:13:22 PM



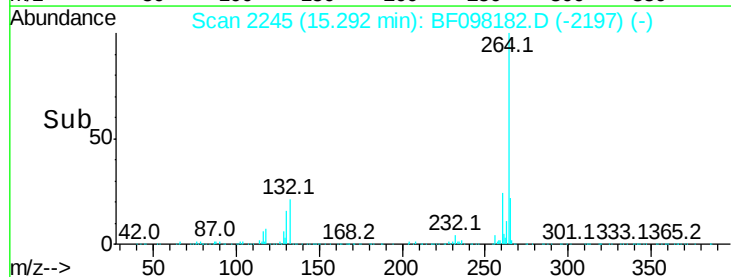
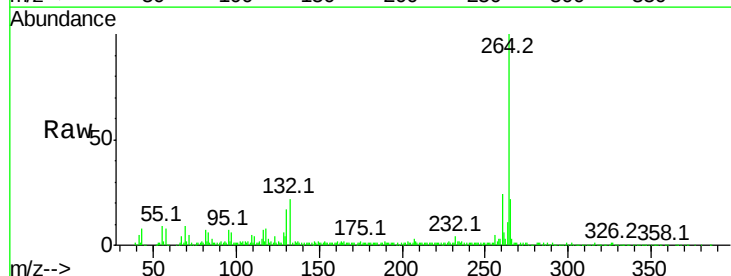
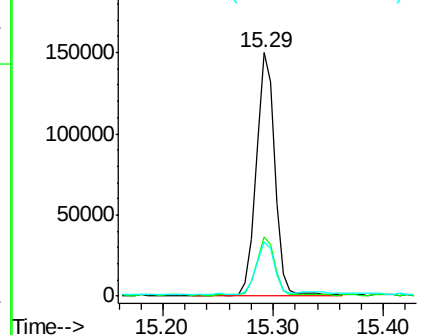
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

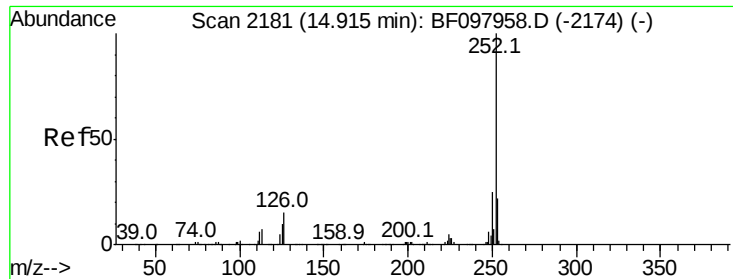


#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.29 min Scan# 2245
 Delta R.T. -0.02 min
 Lab File: BF098182.D
 Acq: 31 Aug 2017 3:34

Tgt Ion:	264	Resp:	175764
Ion Ratio	Lower	Upper	
264	100		
260	24.2	19.5	29.3
265	22.3	17.2	25.8

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





#87

Benzo(b)fluoranthene

Concen: 8.485 ng m

RT: 14.89 min Scan# 2177

Delta R.T. -0.02 min

Lab File: BF098182.D

Acq: 31 Aug 2017 3:34

Instrument :

BNA_F

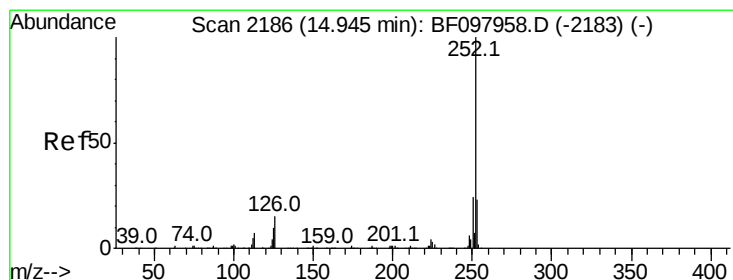
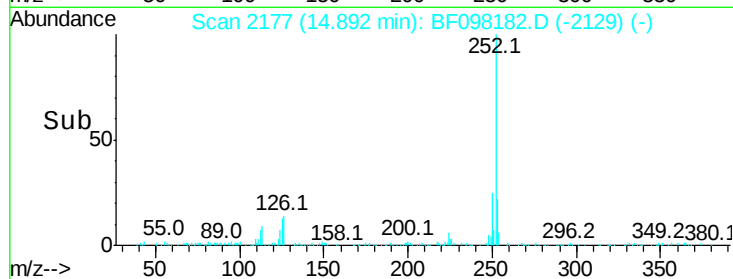
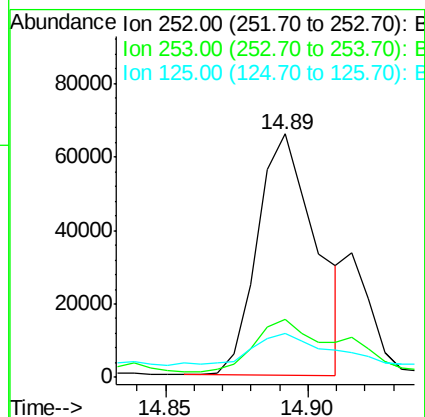
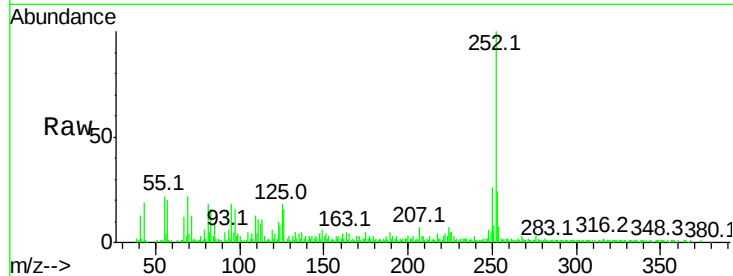
ClientSampleId :

PL-01-082917-D

Tot Ion:	252	Resp:	94005
Ion Ratio	Lower	Upper	
252	100		
253	24.0	18.1	27.1
125	18.0	9.8	14.8#

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:22 PM



#88

Benzo(k)fluoranthene

Concen: 2.184 ng m

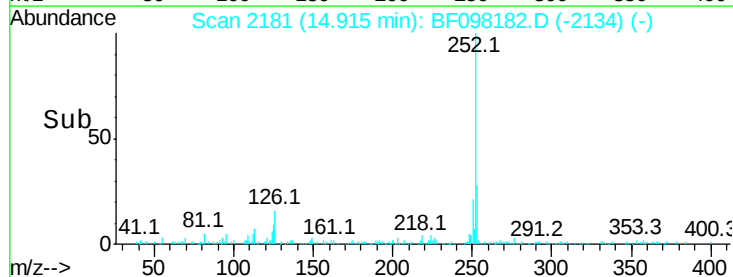
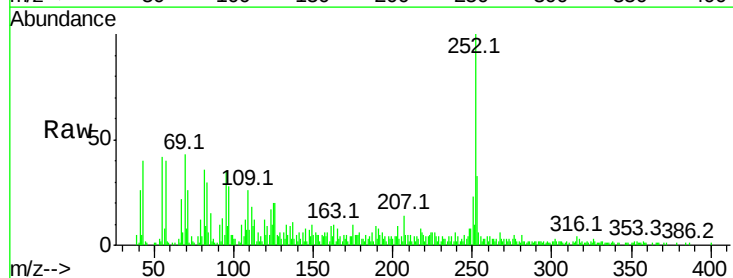
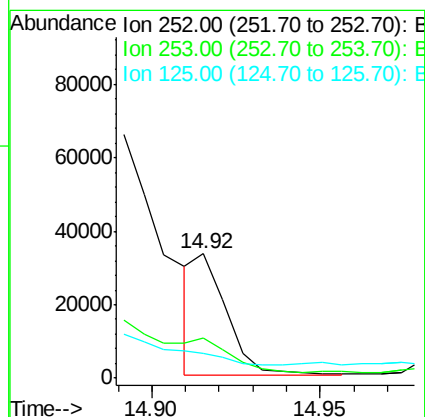
RT: 14.92 min Scan# 2181

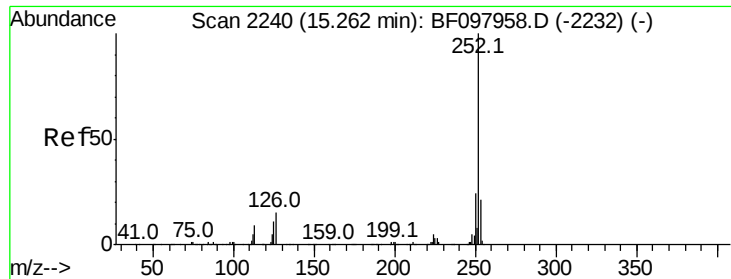
Delta R.T. -0.02 min

Lab File: BF098182.D

Acq: 31 Aug 2017 3:34

Tgt Ion:	252	Resp:	22730
Ion Ratio	Lower	Upper	
252	100		
253	32.6	18.4	27.6#
125	19.7	13.1	19.7#





#89

Benzo(a)pyrene

Concen: 5.959 ng

RT: 15.23 min Scan# 2235

Delta R.T. -0.02 min

Lab File: BF098182.D

Acq: 31 Aug 2017 3:34

Instrument :

BNA_F

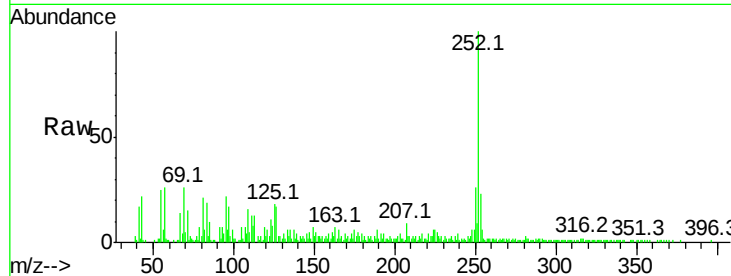
ClientSampleId :

PL-01-082917-D

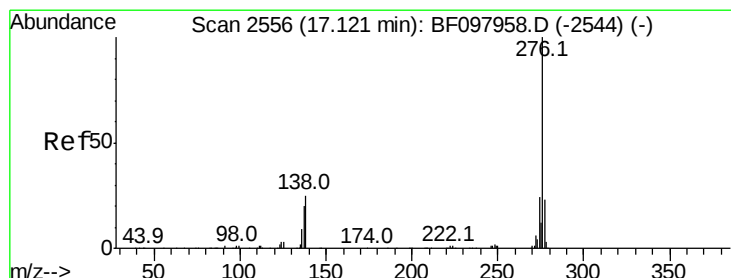
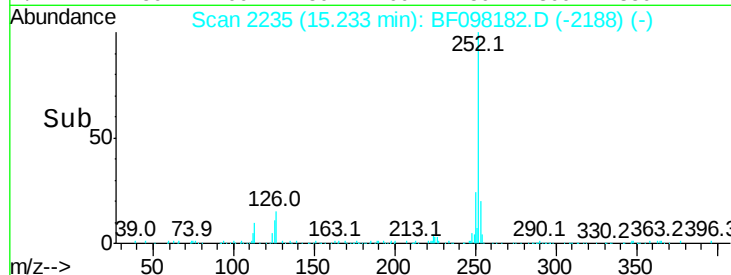
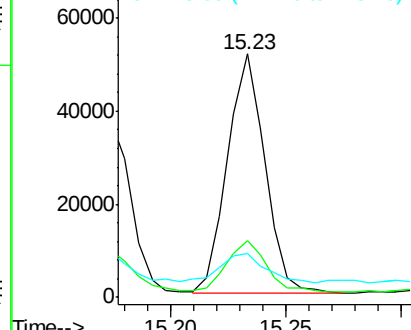
Tot Ion:	252	Resp:	58450
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.5	26.3
125	18.1	11.0	16.4

Manual Integrations
APPROVED

Sohil
8/31/2017 7:13:22 PM



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



#91

Benzo(g,h,i)perylene

Concen: 3.770 ng

RT: 17.08 min Scan# 2549

Delta R.T. -0.03 min

Lab File: BF098182.D

Acq: 31 Aug 2017 3:34

Tgt Ion:	276	Resp:	31413
Ion Ratio	Lower	Upper	
276	100		
277	25.3	18.6	28.0
138	26.7	25.4	38.0

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

