

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070519\
 Data File : BN006728.D
 Acq On : 05 Jul 2019 22:19
 Operator : HP/JU
 Sample : K3558-07
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW081-062519

Manual Integrations
 APPROVED

mohammad
 7/10/2019 8:27:04 AM

Quant Time: Jul 08 09:12:08 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN070219.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jul 05 05:30:28 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	2727	0.40	ng	-0.02
7) Naphthalene-d8	10.38	136	10855	0.40	ng	-0.01
13) Acenaphthene-d10	14.24	164	6696	0.40	ng	-0.02
19) Phenanthrene-d10	17.00	188	15543	0.40	ng	-0.02
27) Chrysene-d12	21.23	240	15367	0.40	ng	-0.03
34) Perylene-d12	23.45	264	17670	0.40	ng	-0.06

System Monitoring Compounds

4) 2-Fluorophenol	5.23	112	1263	0.17	ng	0.00
5) Phenol-d6	6.81	99	1776	0.19	ng	-0.02
8) Nitrobenzene-d5	8.81	82	1011	0.12	ng	0.01
11) 2-Methylnaphthalene-d10	11.98	152	2733	0.17	ng	-0.02
14) 2,4,6-Tribromophenol	15.77	330	542	0.16	ng	-0.02
15) 2-Fluorobiphenyl	12.86	172	3715	0.14	ng	-0.02
25) Fluoranthene-d10	19.05	212	5972	0.13	ng	-0.03
29) Terphenyl-d14	19.65	244	4190	0.12	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.41	128	2966	0.100	ng	# 88
16) Acenaphthylene	13.96	152	4624	0.139	ng	99
17) Acenaphthene	14.31	154	1309	0.062	ng	97
18) Fluorene	15.31	166	2057	0.078	ng	# 95
23) Phenanthrene	17.05	178	48724	1.088	ng	100
24) Anthracene	17.14	178	6491	0.160	ng	99
26) Fluoranthene	19.08	202	66785	1.270	ng	99
28) Pyrene	19.44	202	67319	1.095	ng	98
30) Benzo(a)anthracene	21.20	228	26964	0.509	ng	96
31) Chrysene	21.26	228	36024m	0.659	ng	
33) Indeno(1,2,3-cd)pyrene	25.67	276	22074	0.338	ng	94
35) Benzo(b)fluoranthene	22.79	252	43164	0.761	ng	96
36) Benzo(k)fluoranthene	22.83	252	15667m	0.255	ng	
37) Benzo(a)pyrene	23.35	252	28612m	0.521	ng	
38) Dibenzo(a,h)anthracene	25.67	278	5627	0.103	ng	# 81
39) Benzo(g,h,i)perylene	26.35	276	23997	0.427	ng	97

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

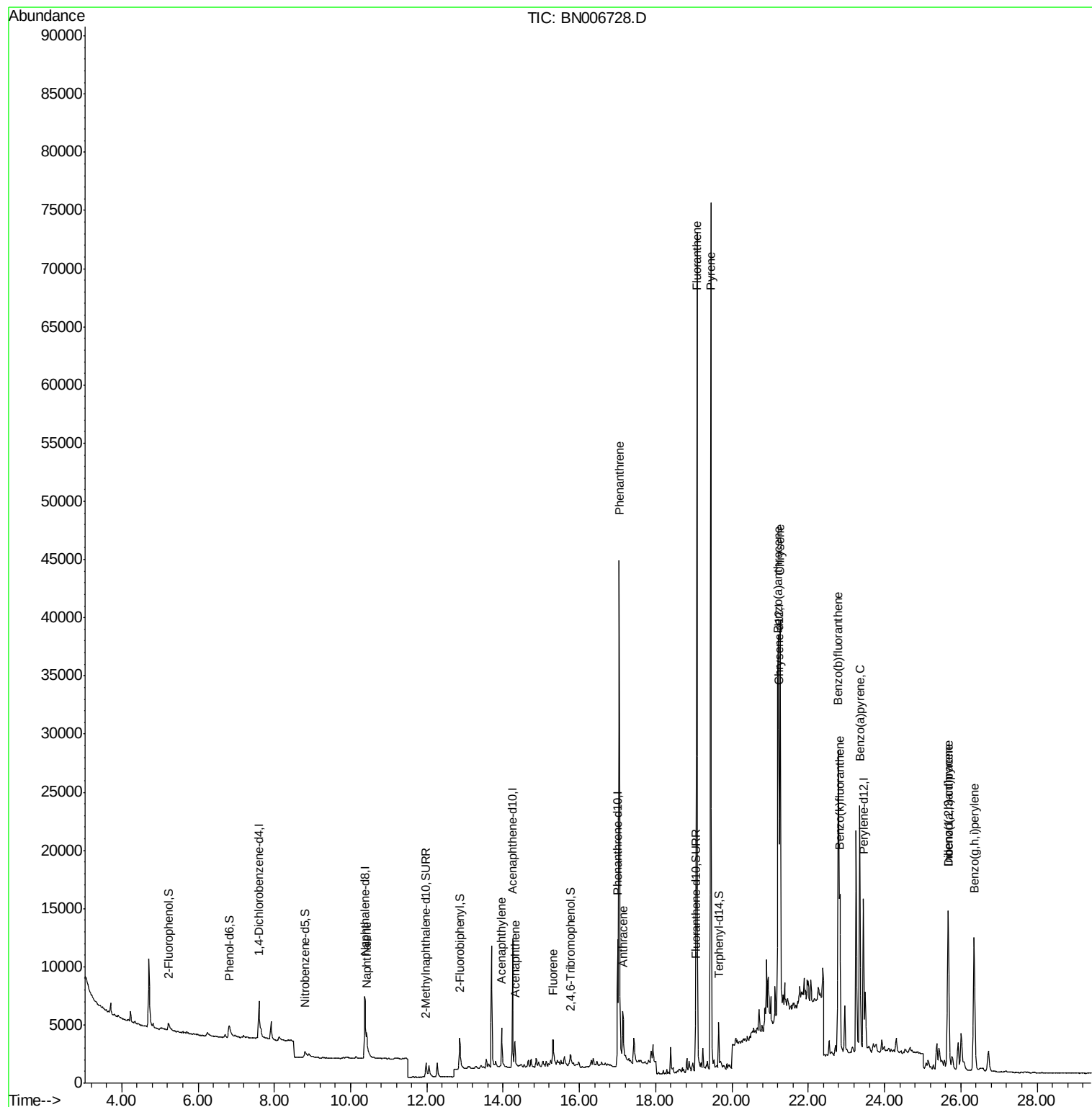
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070519\
Data File : BN006728.D
Acq On : 05 Jul 2019 22:19
Operator : HP/JU
Sample : K3558-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

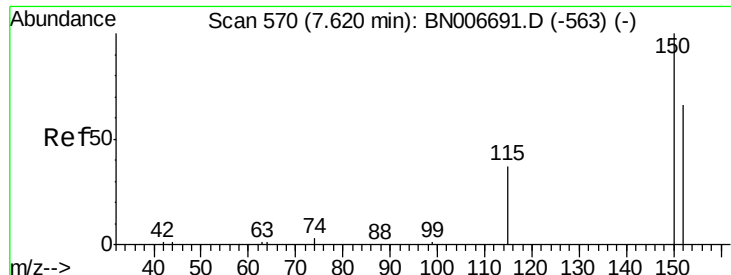
Instrument :
BNA_N
ClientSampleId :
EXT-015-SW081-062519

Quant Time: Jul 08 09:12:08 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN070219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 05 05:30:28 2019
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#1

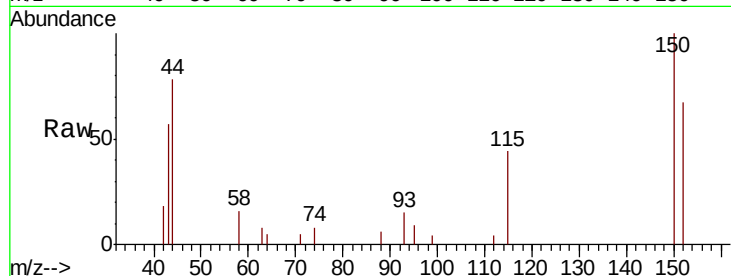
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.60 min Scan# 567
Delta R.T. -0.02 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW081-062519

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.3	120.6	181.0
115	66.9	51.0	76.6

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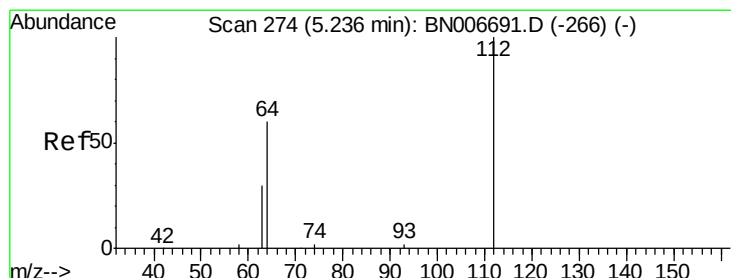
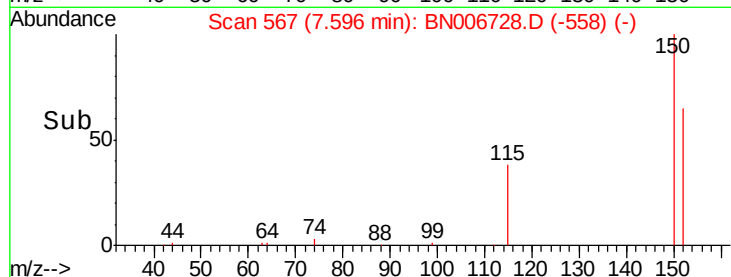
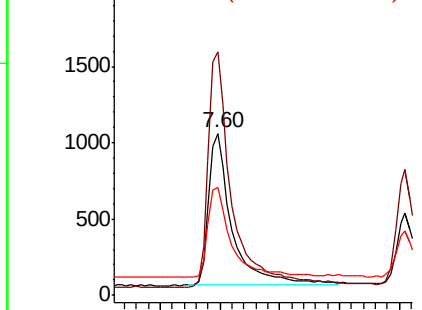


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

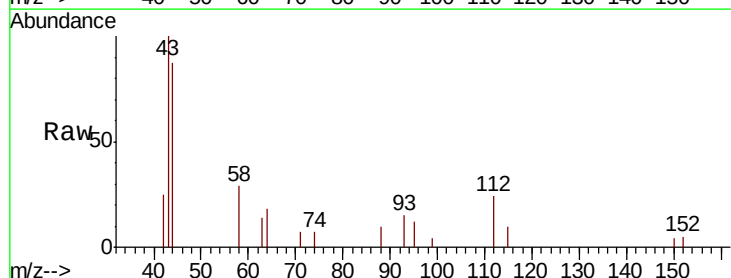
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.171 ng
RT: 5.23 min Scan# 273
Delta R.T. -0.01 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.3	49.8	74.6
63	30.1	25.8	38.6

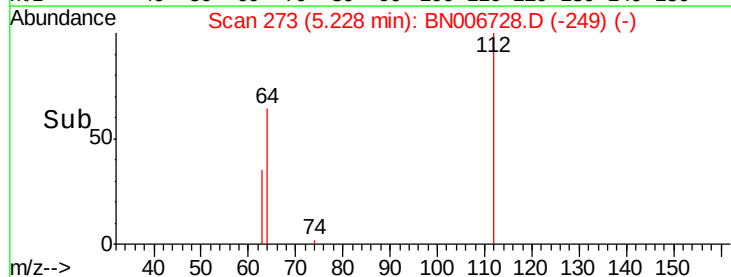
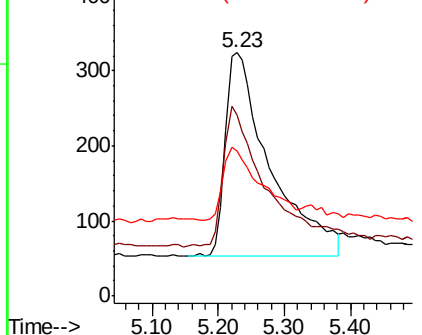


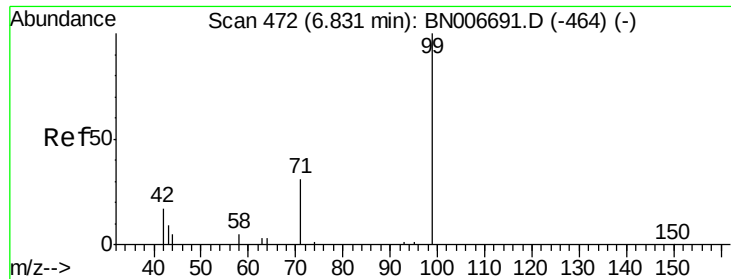
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.189 ng

RT: 6.81 min Scan# 469

Delta R.T. -0.02 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Instrument :

BNA_N

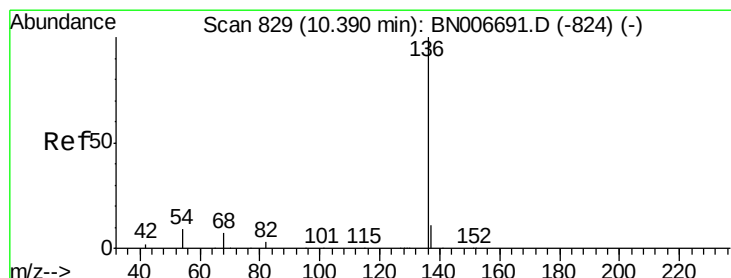
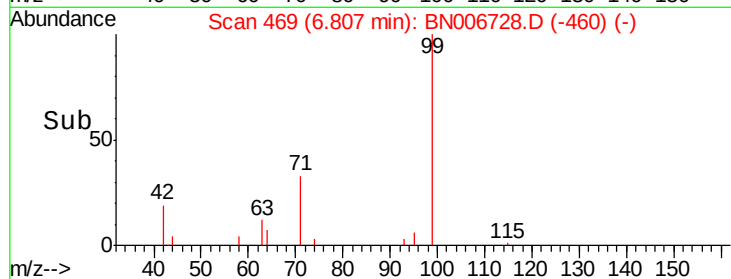
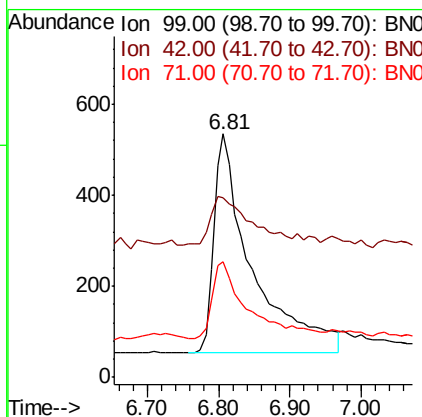
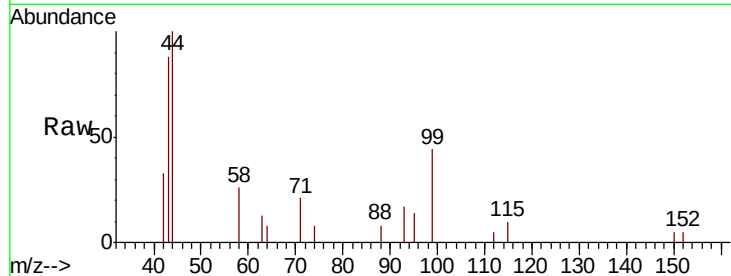
ClientSampleId :

EXT-015-SW081-062519

Tot Ion:	99	Resp:	1776
Ion	Ratio	Lower	Upper
99	100		
42	22.7	16.6	25.0
71	34.4	26.0	39.0

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#7

Naphthalene-d8

Concen: 0.400 ng

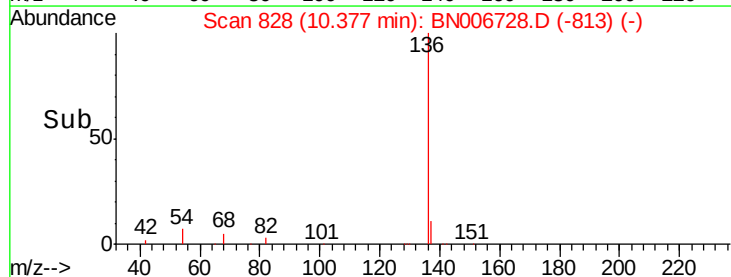
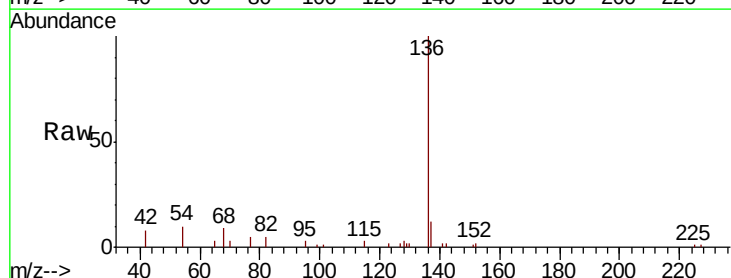
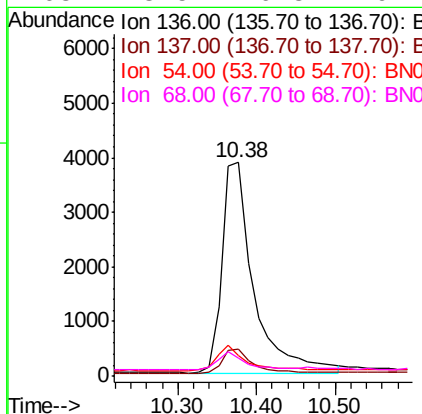
RT: 10.38 min Scan# 828

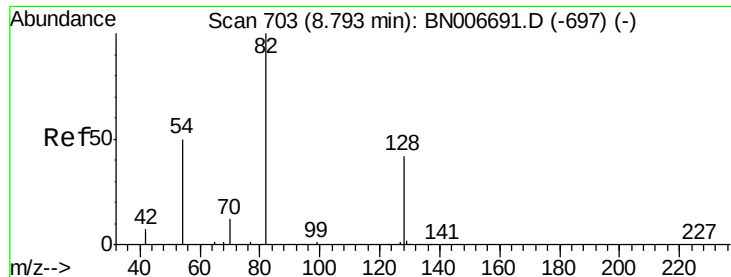
Delta R.T. -0.01 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Tgt Ion:	136	Resp:	10855
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.3	13.9
54	9.9	8.4	12.6
68	8.5	6.8	10.2





#8

Nitrobenzene-d5

Concen: 0.121 ng

RT: 8.81 min Scan# 704

Delta R.T. 0.01 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Instrument :

BNA_N

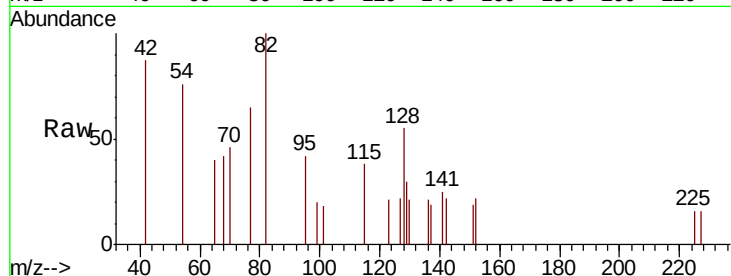
ClientSampleId :

EXT-015-SW081-062519

Tot Ion:	82	Resp:	1011
Ion Ratio	Lower	Upper	
82	100		
128	55.0	36.1	54.1#
54	76.5	44.5	66.7#

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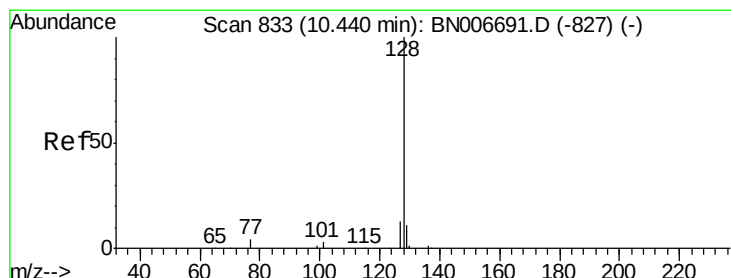
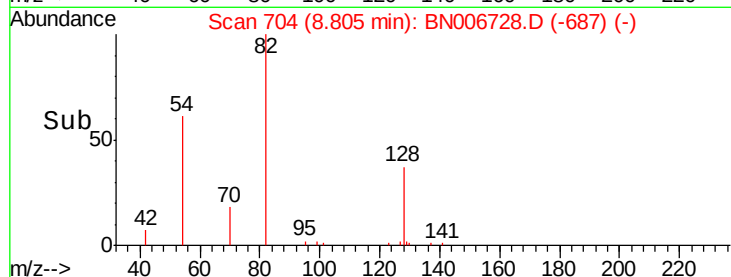
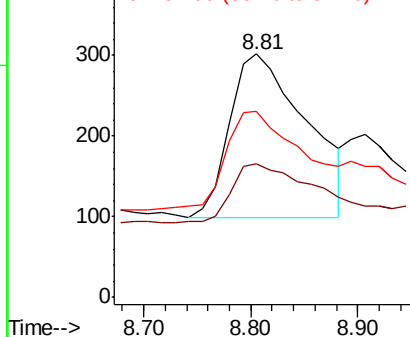


Abundance

Ion 82.00 (81.70 to 82.70): BN0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BN0



#9

Naphthalene

Concen: 0.100 ng

RT: 10.41 min Scan# 831

Delta R.T. -0.03 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

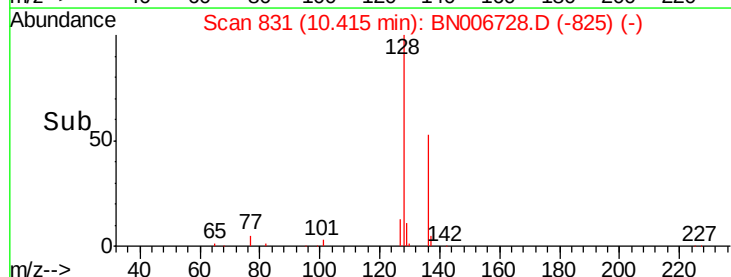
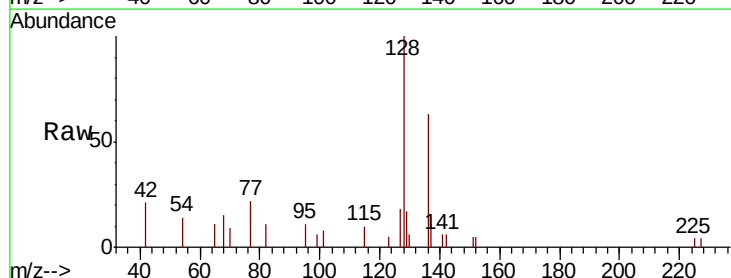
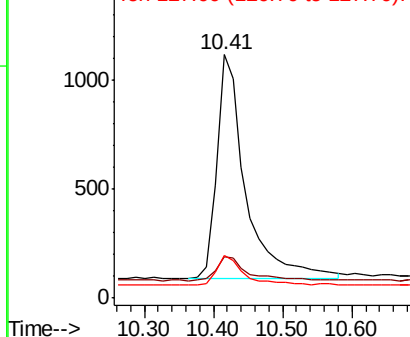
Tgt Ion:	128	Resp:	2966
Ion Ratio	Lower	Upper	
128	100		
129	17.2	9.6	14.4#
127	17.8	11.0	16.4#

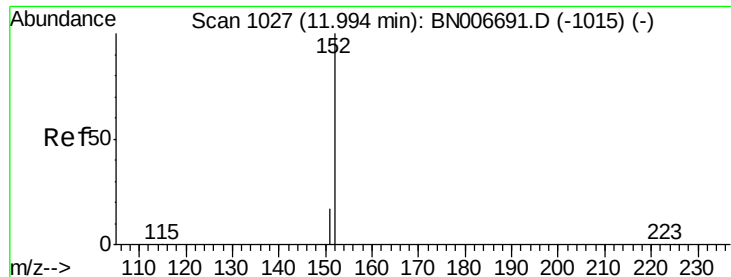
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





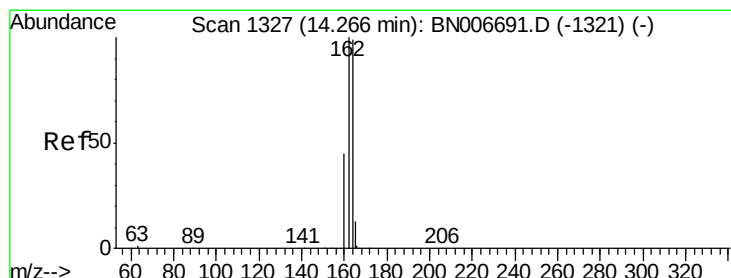
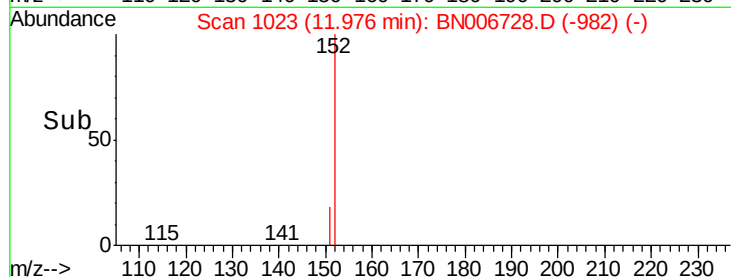
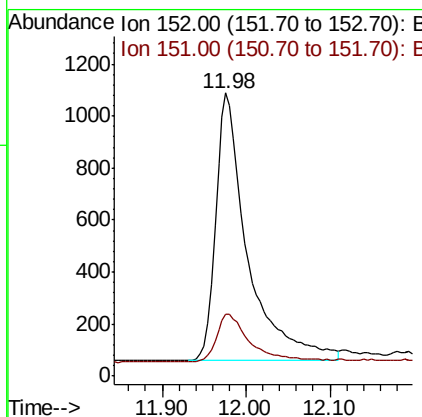
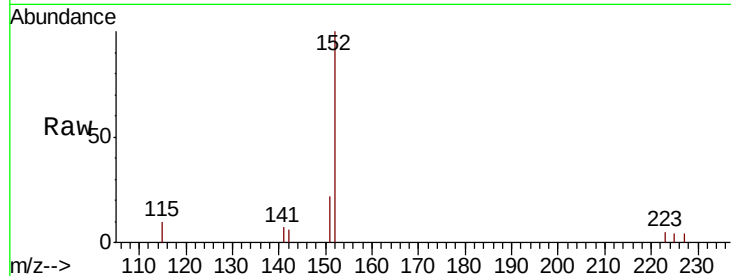
#11
2-Methylnaphthalene-d10
Concen: 0.167 ng
RT: 11.98 min Scan# 1023
Delta R.T. -0.02 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW081-062519

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.1	14.9	22.3

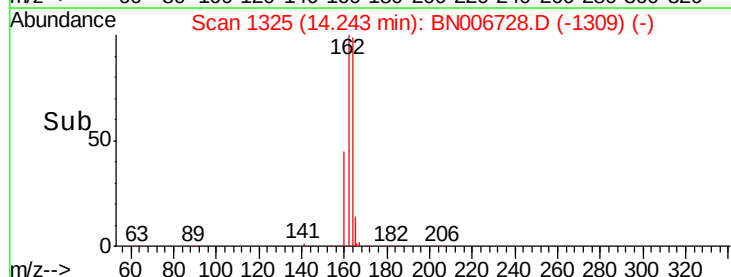
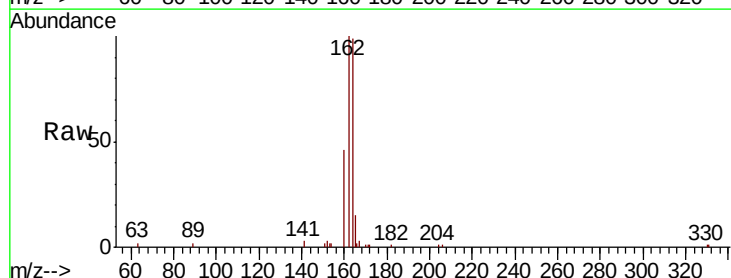
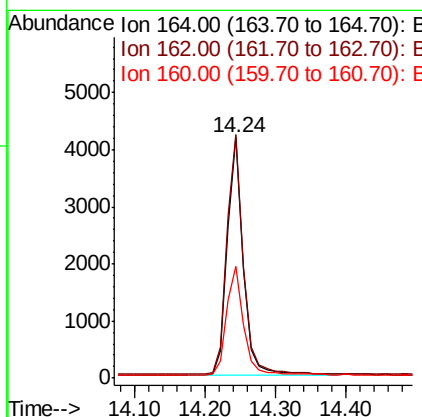
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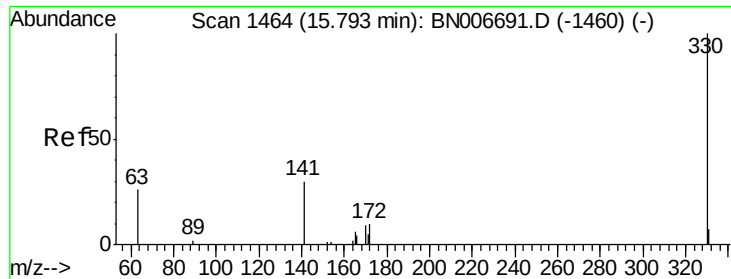
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#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.24 min Scan# 1325
Delta R.T. -0.02 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.2	80.8	121.2
160	46.5	37.0	55.6





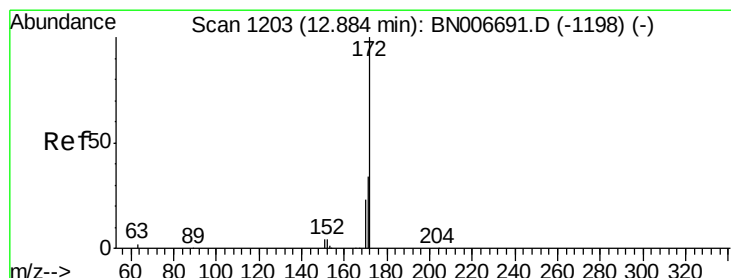
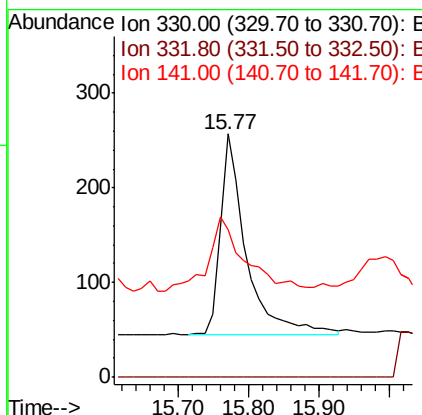
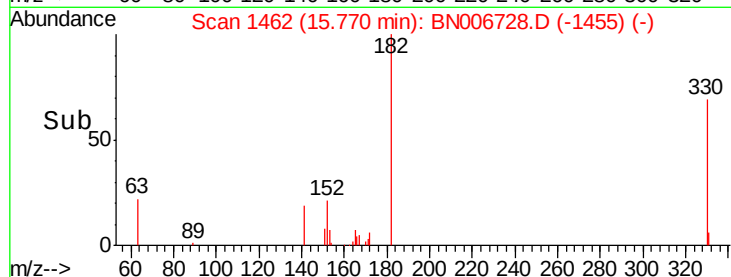
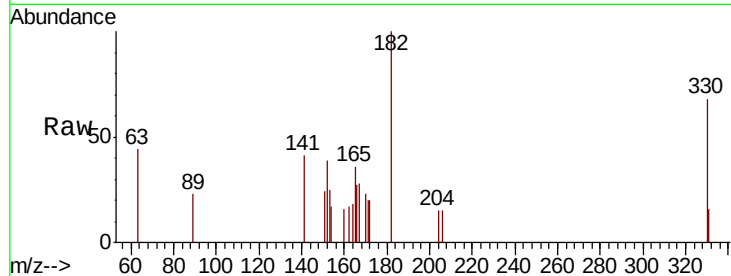
#14
2,4,6-Tribromophenol
Concen: 0.165 ng
RT: 15.77 min Scan# 1462
Delta R.T. -0.02 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW081-062519

Tot Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	43.0	24.8	37.2

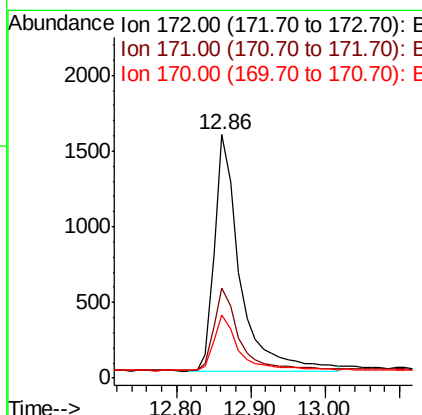
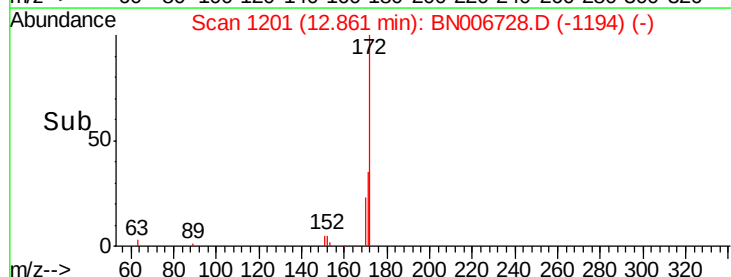
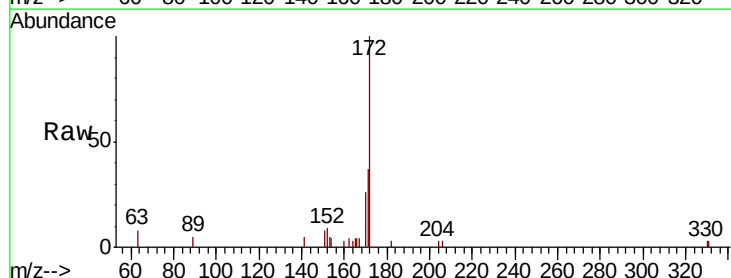
Manual Integrations
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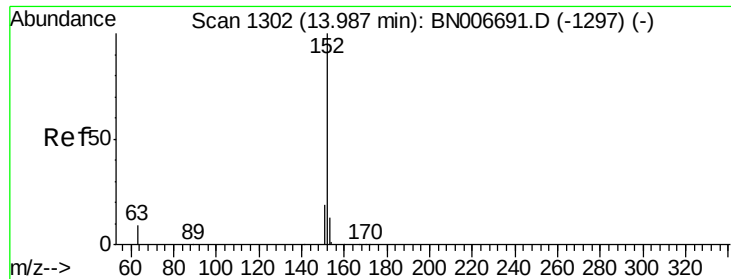
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#15
2-Fluorobiphenyl
Concen: 0.142 ng
RT: 12.86 min Scan# 1201
Delta R.T. -0.02 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.0	27.8	41.6
170	25.9	18.9	28.3





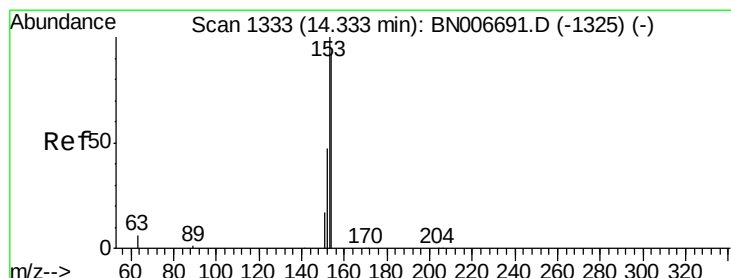
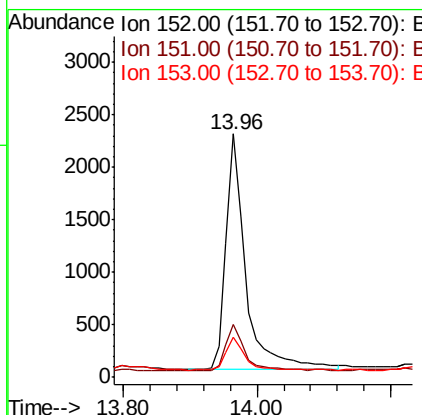
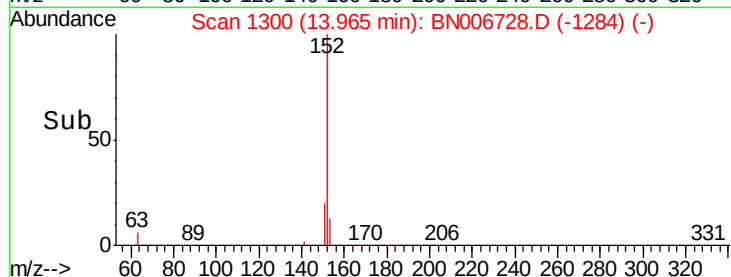
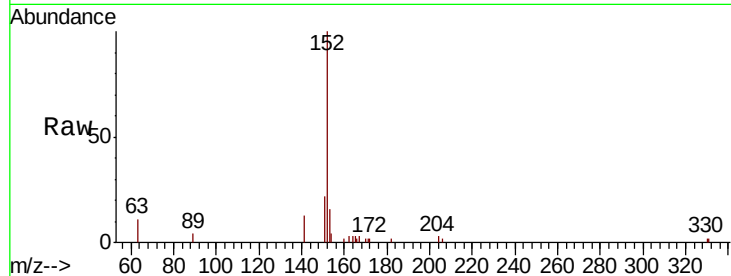
#16
Acenaphthylene
Concen: 0.139 ng
RT: 13.96 min Scan# 1300
Delta R.T. -0.02 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW081-062519

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.7	23.5
153	13.7	10.6	15.8

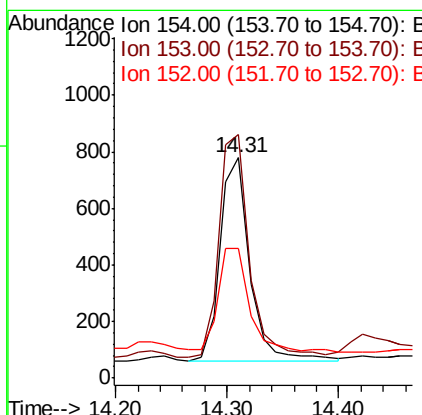
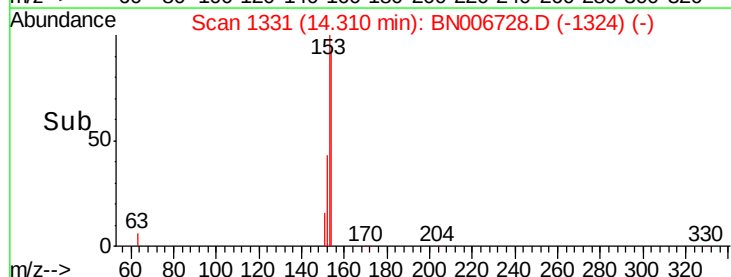
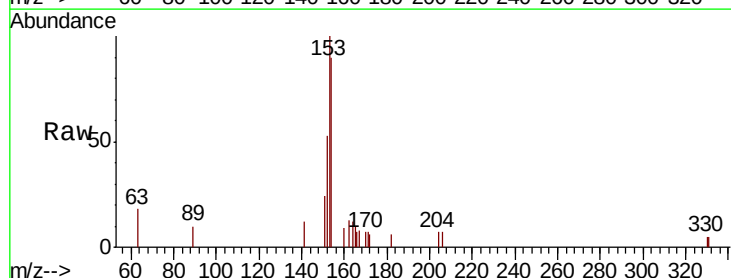
Manual Integrations
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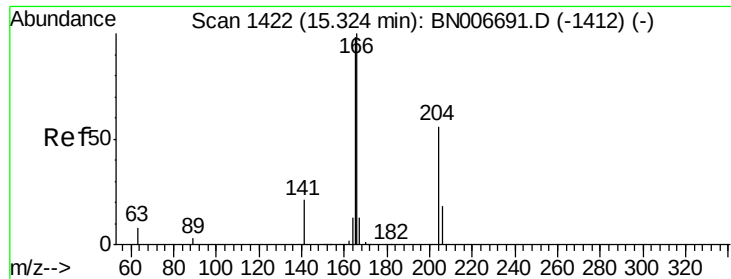
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#17
Acenaphthene
Concen: 0.062 ng
RT: 14.31 min Scan# 1331
Delta R.T. -0.02 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.9	88.9	133.3
152	55.1	42.8	64.2





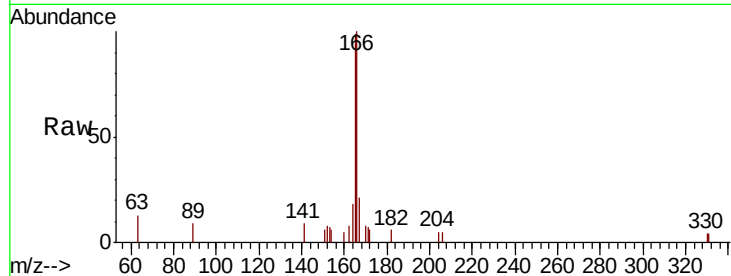
#18
Fluorene
Concen: 0.078 ng
RT: 15.31 min Scan# 1421
Delta R.T. -0.01 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW081-062519

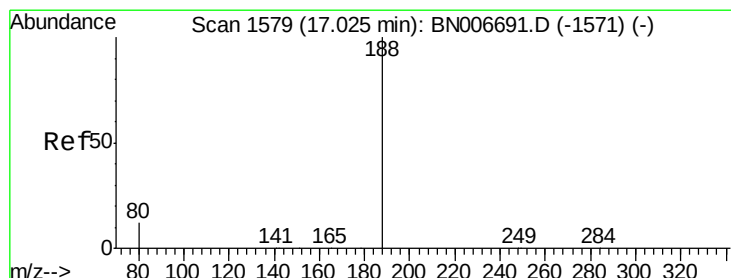
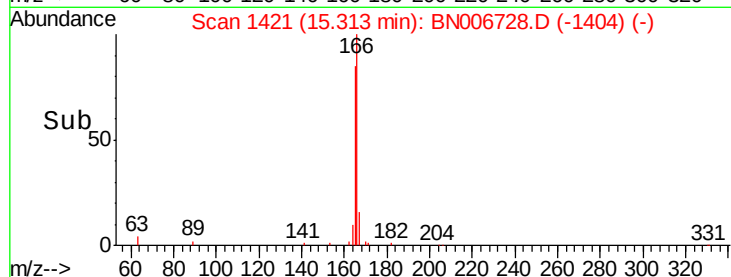
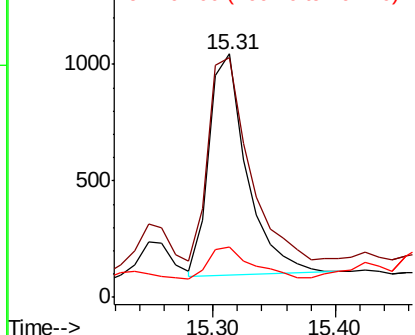
Tot Ion	Ratio	Lower	Upper
166	100		
165	102.1	78.0	117.0
167	16.9	10.7	16.1

Manual Integrations
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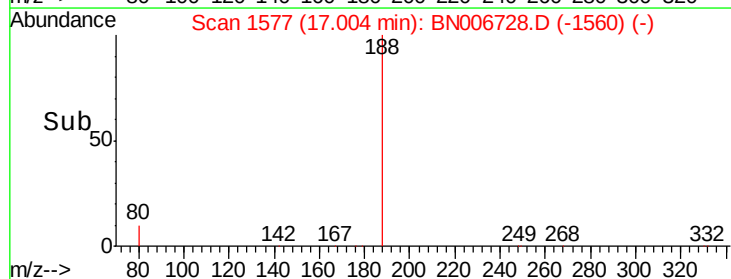
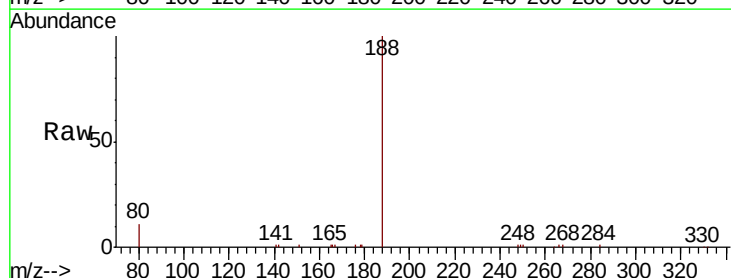
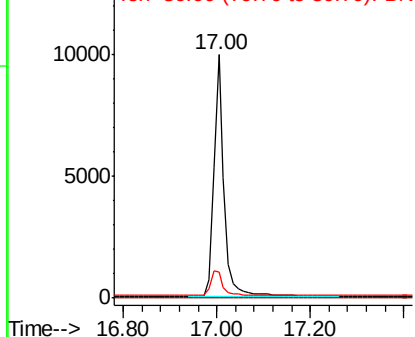
Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

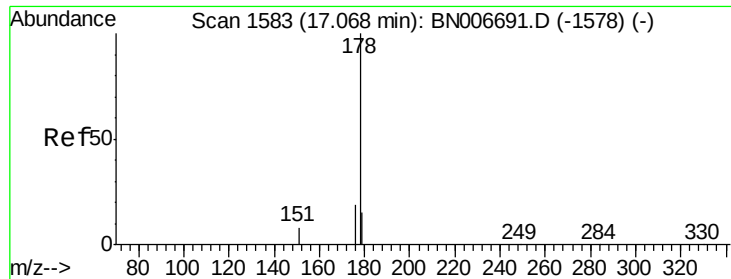


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.00 min Scan# 1577
Delta R.T. -0.02 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.9	10.3	15.5

Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BNC
Ion 80.00 (79.70 to 80.70): BNC





#23

Phenanthrene

Concen: 1.088 ng

RT: 17.05 min Scan# 1581

Delta R.T. -0.02 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Instrument :

BNA_N

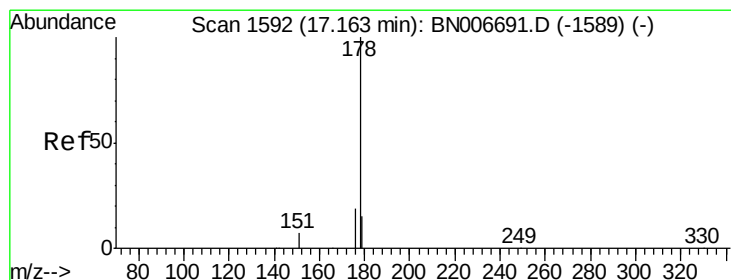
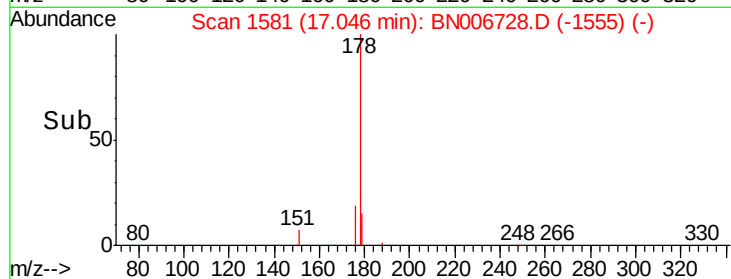
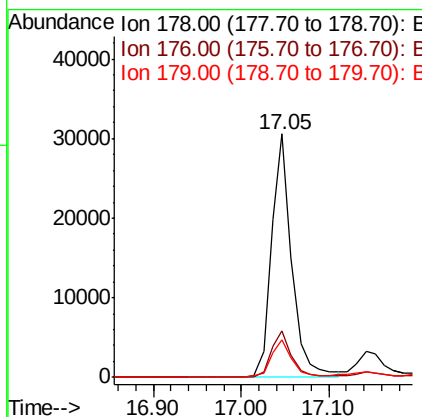
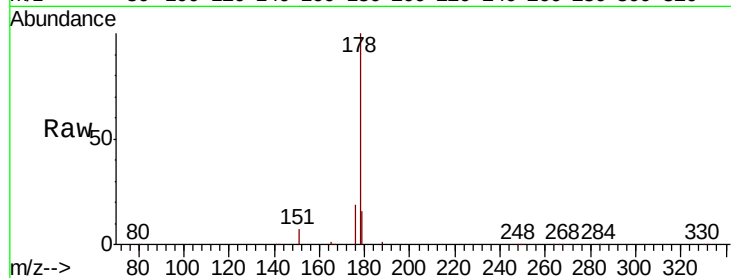
ClientSampleId :

EXT-015-SW081-062519

Tot Ion:178	Resp:	48724
Ion Ratio	Lower	Upper
178	100	
176	19.0	15.3 22.9
179	15.4	12.4 18.6

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#24

Anthracene

Concen: 0.160 ng

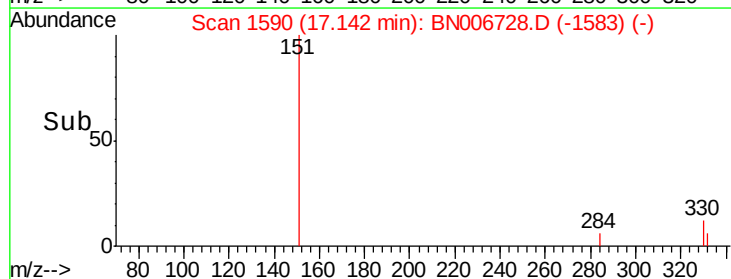
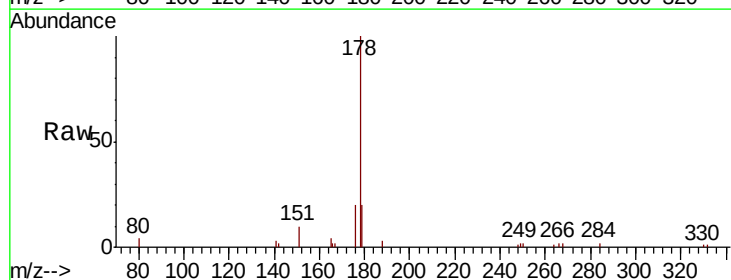
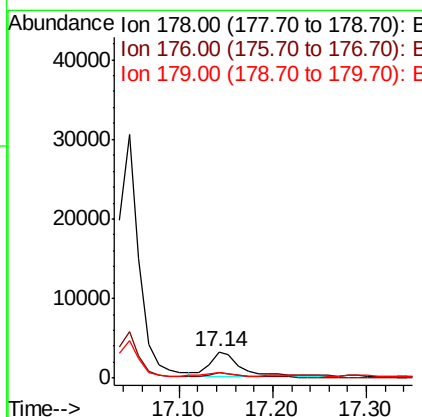
RT: 17.14 min Scan# 1590

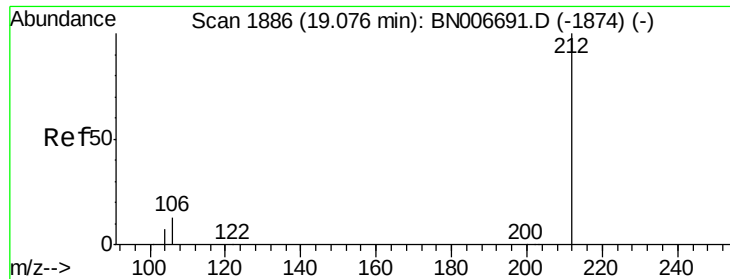
Delta R.T. -0.02 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Tgt Ion:178	Resp:	6491
Ion Ratio	Lower	Upper
178	100	
176	18.7	14.8 22.2
179	14.1	11.9 17.9





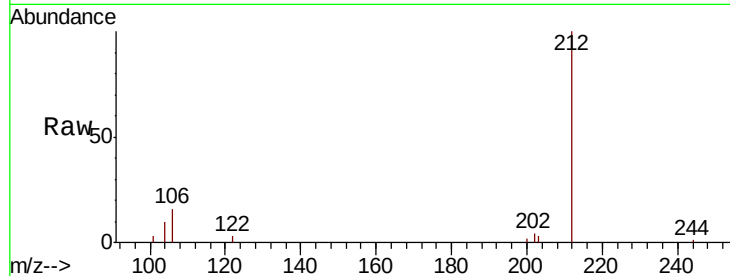
#25
Fluoranthene-d10
Concen: 0.134 ng
RT: 19.05 min Scan# 1880
Delta R.T. -0.03 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW081-062519

Tot Ion	Ratio	Lower	Upper
212	100		
106	13.4	11.0	16.6
104	7.3	6.1	9.1

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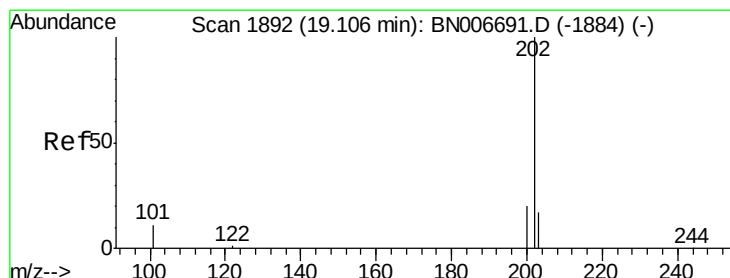
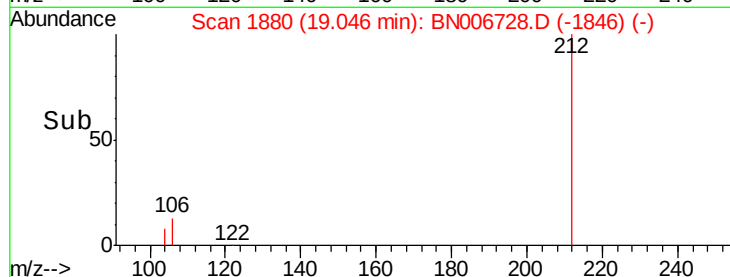
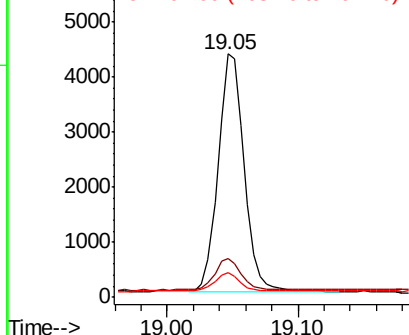


Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26
Fluoranthene
Concen: 1.270 ng
RT: 19.08 min Scan# 1887
Delta R.T. -0.02 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

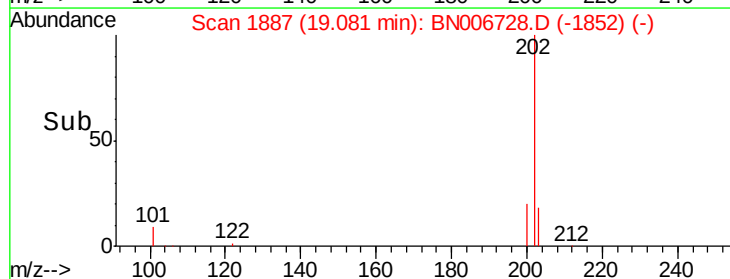
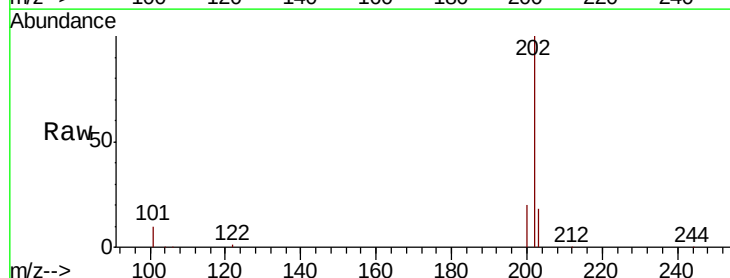
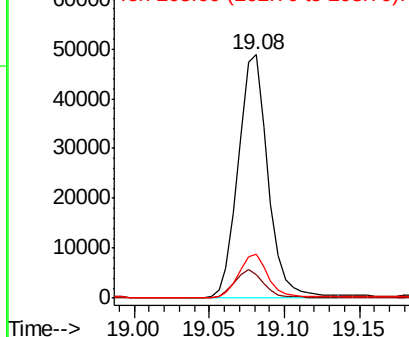
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.2	8.7	13.1
203	17.4	13.8	20.6

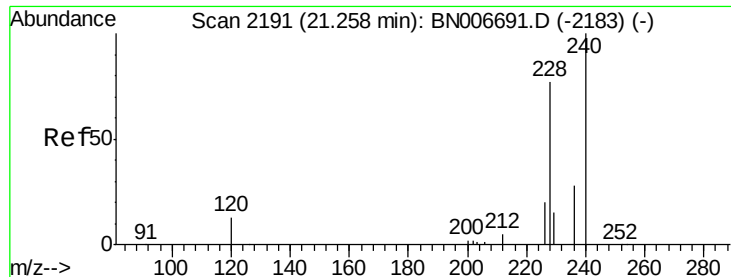
Abundance

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





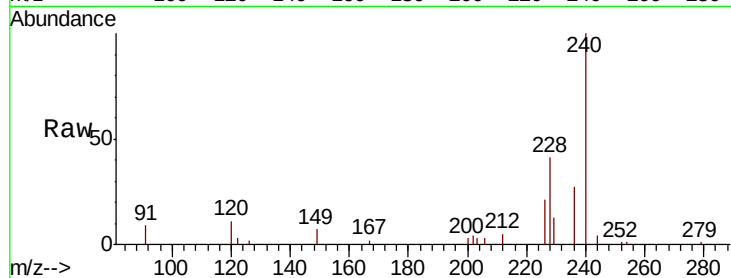
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.23 min Scan# 2188
Delta R.T. -0.03 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW081-062519

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.9	12.9	19.3#
236	27.2	23.2	34.8

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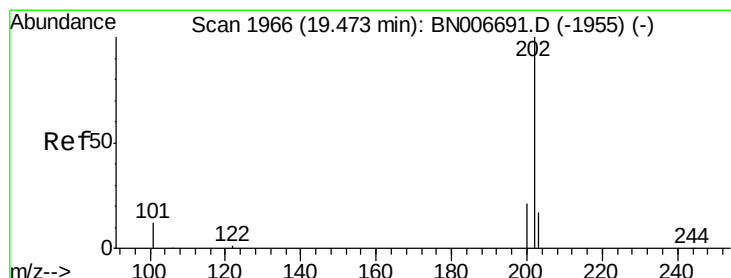
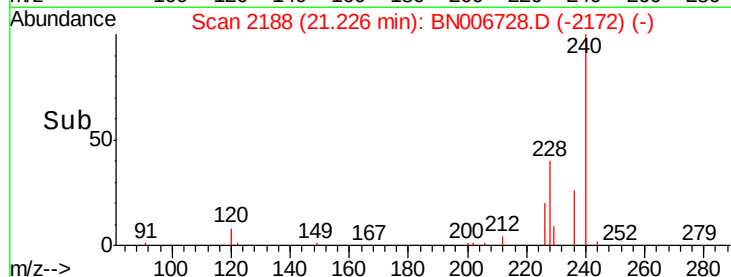
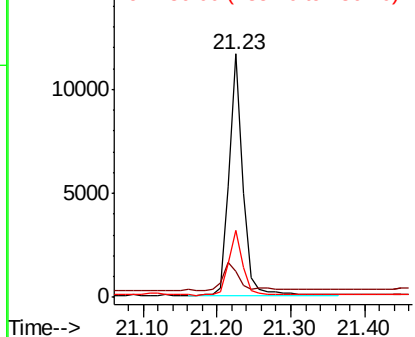


Abundance

Ion 240.00 (239.70 to 240.70): E

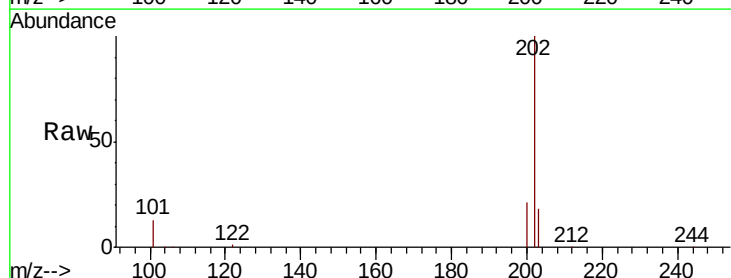
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28
Pyrene
Concen: 1.095 ng
RT: 19.44 min Scan# 1960
Delta R.T. -0.03 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.8	25.2
203	19.8	14.2	21.2

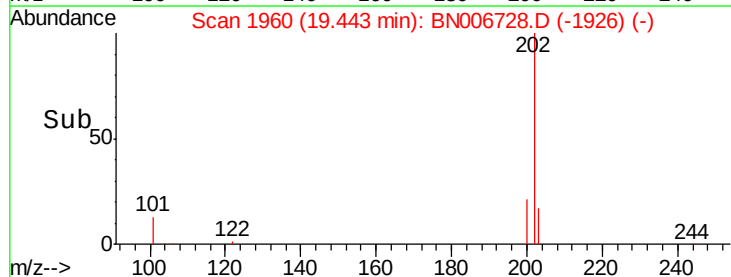
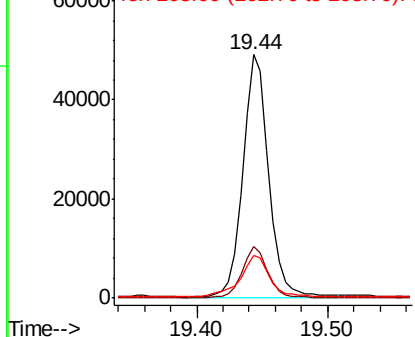


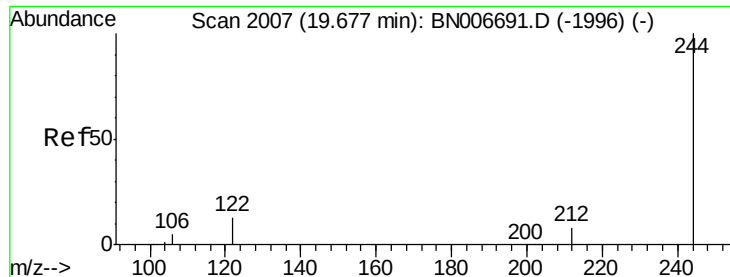
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.118 ng

RT: 19.65 min Scan# 2002

Delta R.T. -0.02 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Instrument :

BNA_N

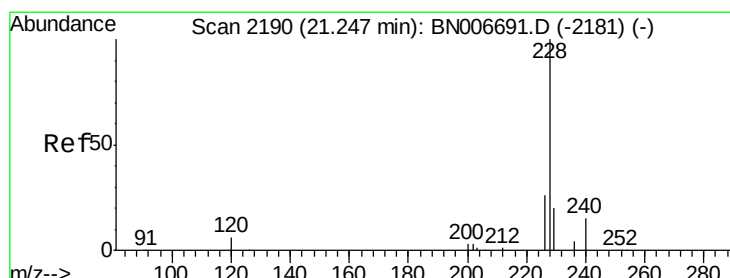
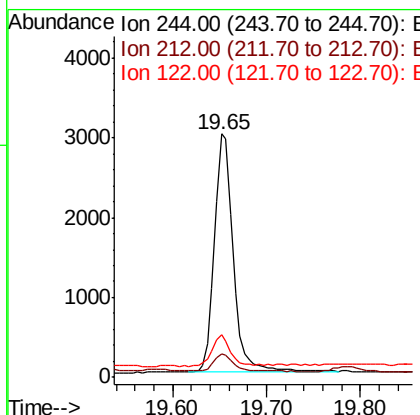
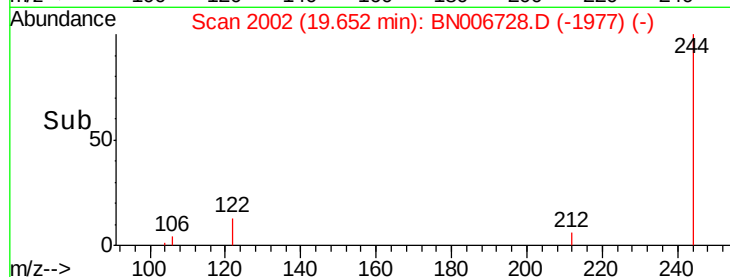
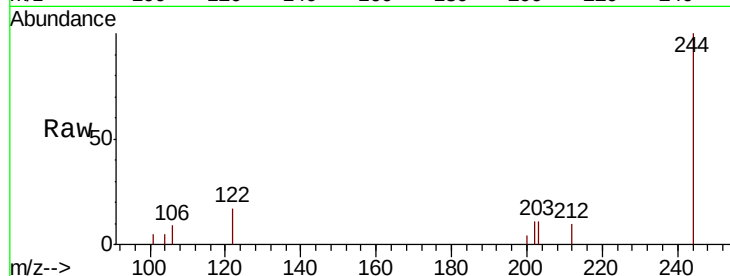
ClientSampleId :

EXT-015-SW081-062519

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.0	10.4
122	17.4	11.5	17.3

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#30

Benzo(a)anthracene

Concen: 0.509 ng

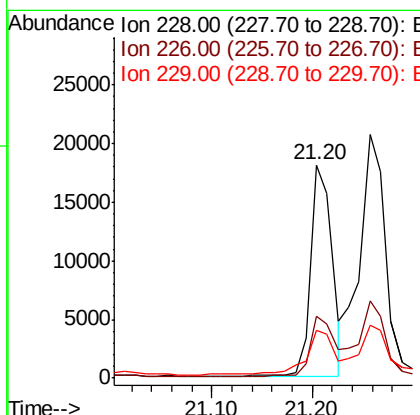
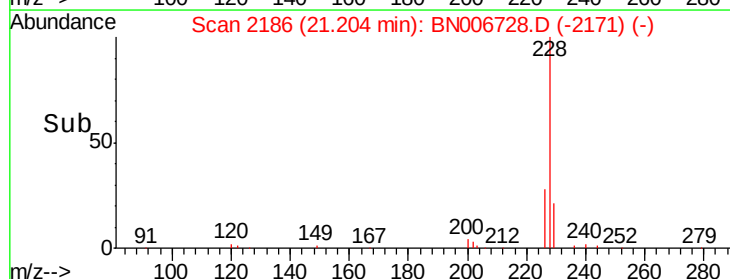
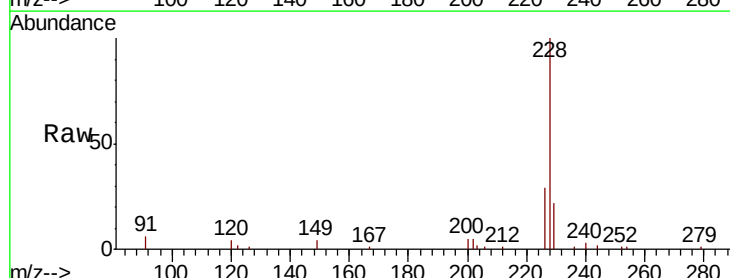
RT: 21.20 min Scan# 2186

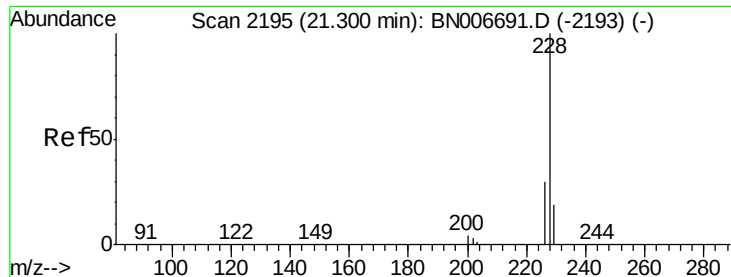
Delta R.T. -0.04 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	21.5	32.3
229	22.3	16.2	24.4





#31

Chrysene

Concen: 0.659 ng/mL

RT: 21.26 min Scan# 2191

Delta R.T. -0.04 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Instrument :

BNA_N

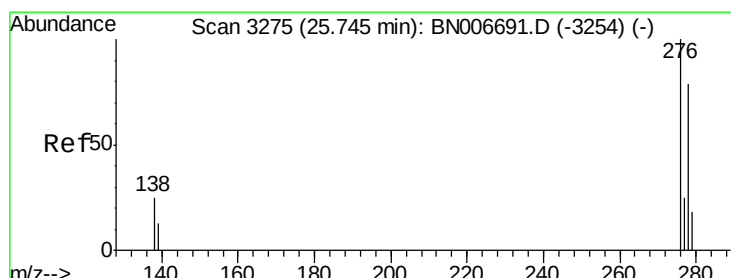
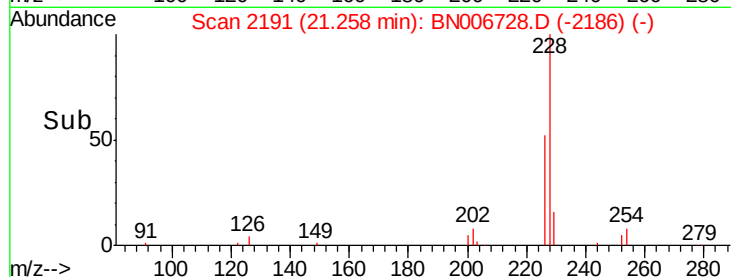
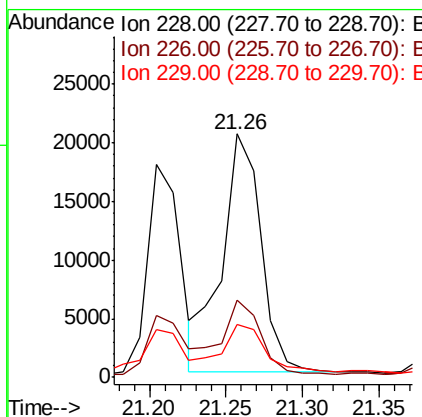
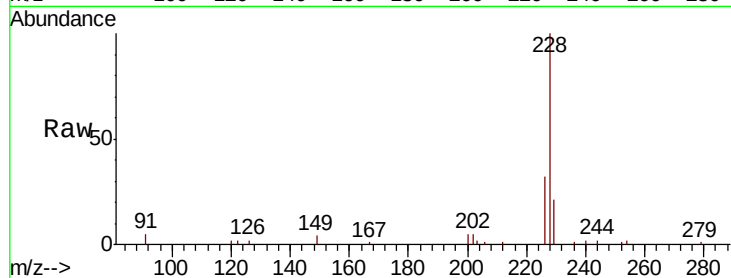
ClientSampleId :

EXT-015-SW081-062519

Tot Ion:	228	Resp:	36024
Ion Ratio	Lower	Upper	
228	100		
226	31.7	24.2	36.2
229	21.5	15.8	23.6

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#33

Indeno(1,2,3-cd)pyrene

Concen: 0.338 ng/mL

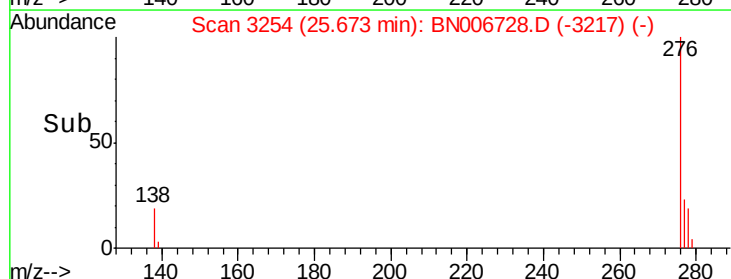
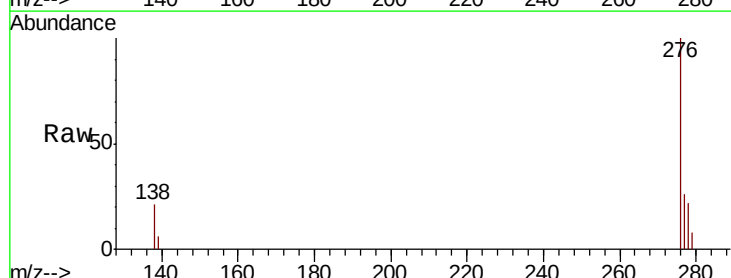
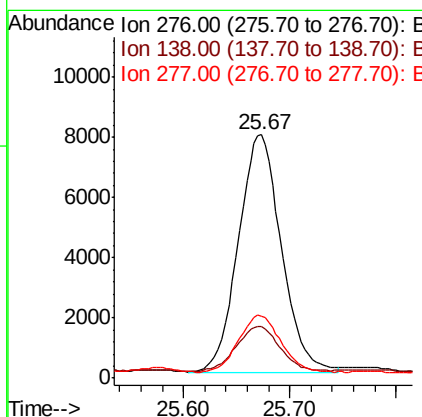
RT: 25.67 min Scan# 3254

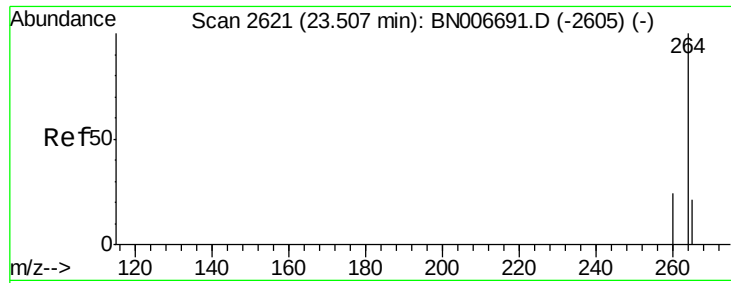
Delta R.T. -0.07 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Tgt Ion:	276	Resp:	22074
Ion Ratio	Lower	Upper	
276	100		
138	19.5	19.5	29.3
277	24.0	19.7	29.5





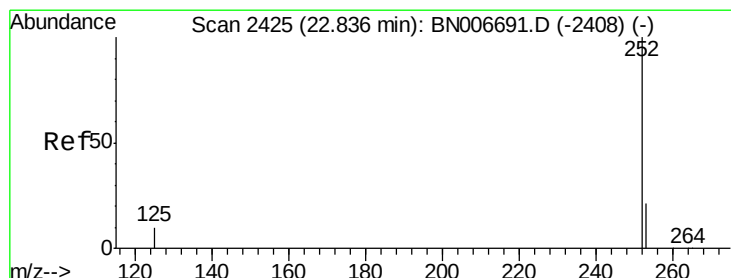
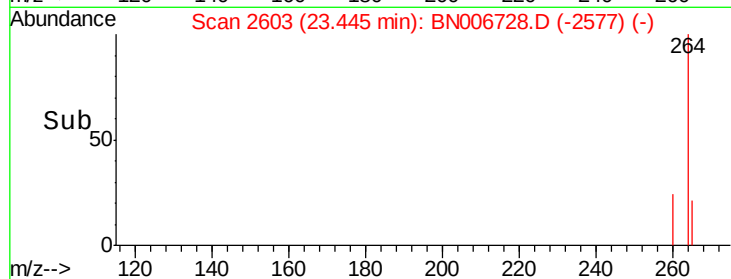
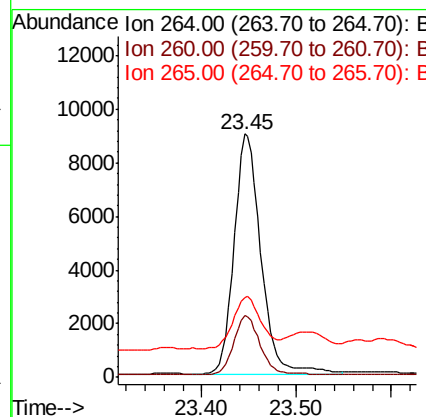
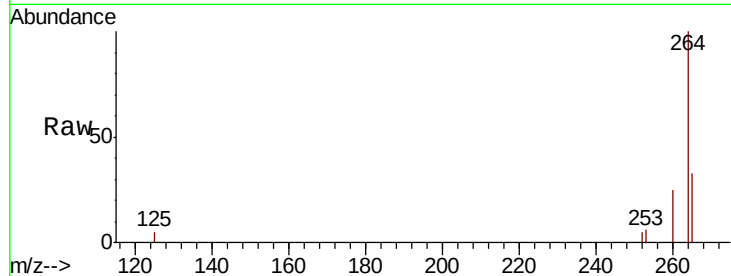
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.45 min Scan# 2603
Delta R.T. -0.06 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW081-062519

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.2	20.2	30.2
265	33.0	33.7	50.5

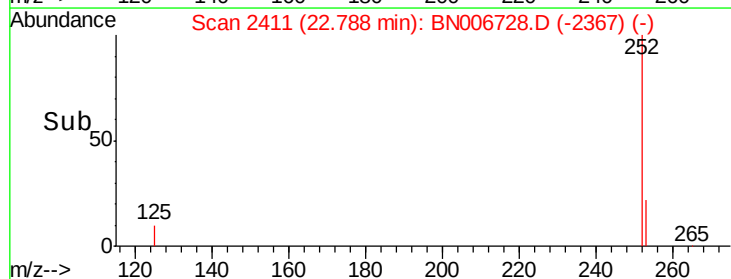
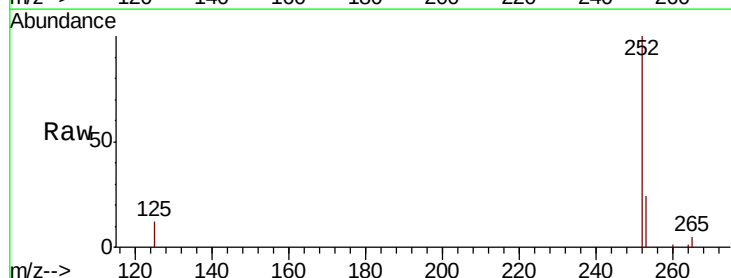
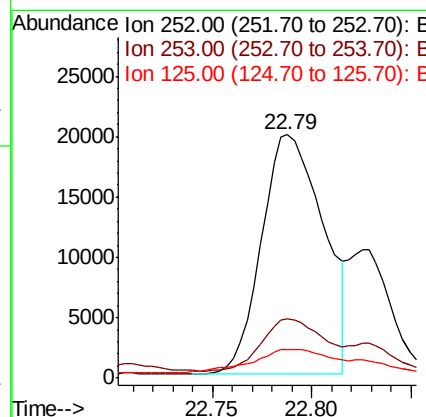
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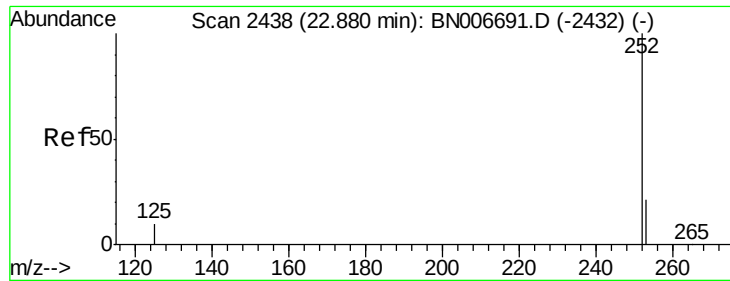
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#35
Benzo(b)fluoranthene
Concen: 0.761 ng
RT: 22.79 min Scan# 2411
Delta R.T. -0.05 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	20.2	30.2
125	11.7	11.5	17.3





#36

Benzo(k)fluoranthene

Concen: 0.255 ng m

RT: 22.83 min Scan# 2423

Delta R.T. -0.05 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Instrument :

BNA_N

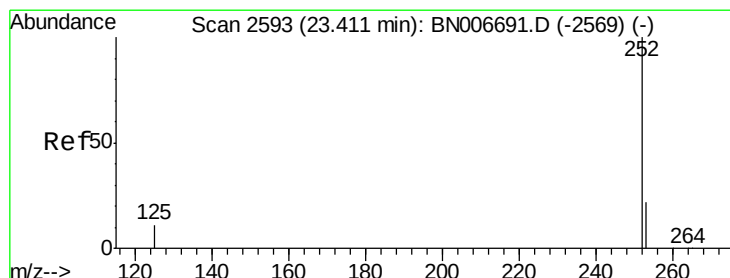
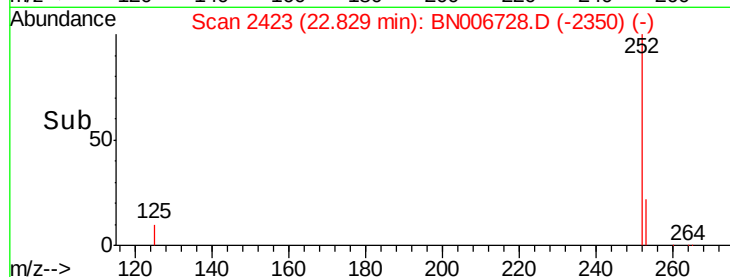
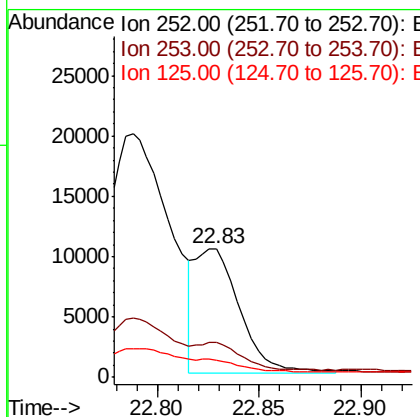
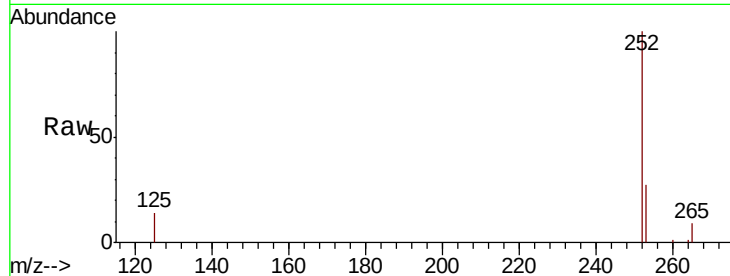
ClientSampleId :

EXT-015-SW081-062519

Tot Ion:	252	Resp:	15667
Ion Ratio	Lower	Upper	
252	100		
253	26.9	20.1	30.1
125	13.7	11.4	17.0

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#37

Benzo(a)pyrene

Concen: 0.521 ng m

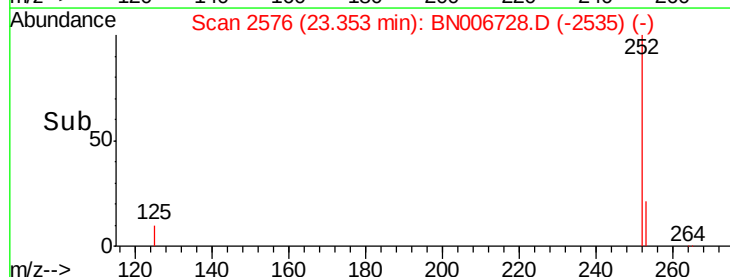
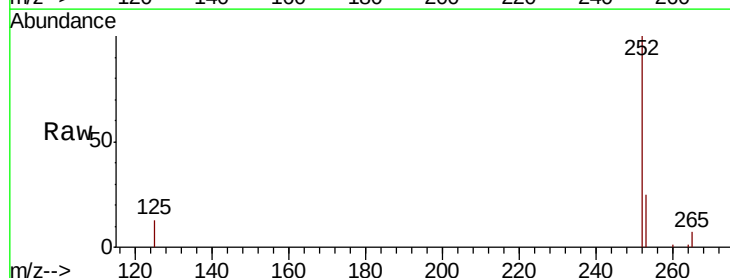
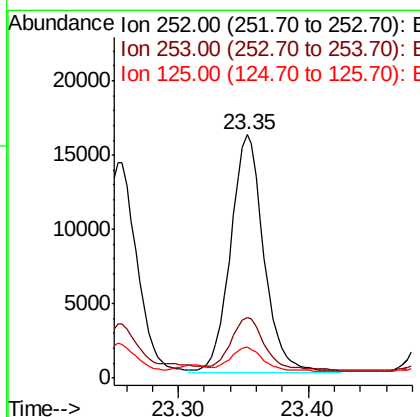
RT: 23.35 min Scan# 2576

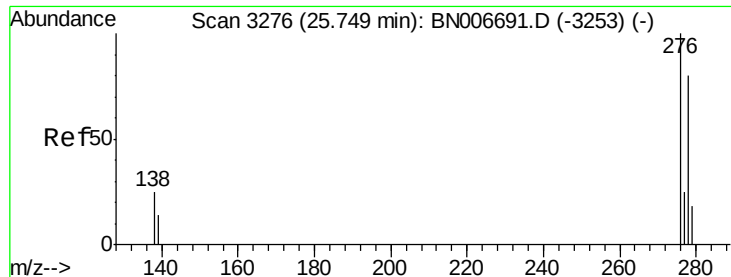
Delta R.T. -0.06 min

Lab File: BN006728.D

Acq: 05 Jul 2019 22:19

Tgt Ion:	252	Resp:	28612
Ion Ratio	Lower	Upper	
252	100		
253	25.0	21.4	32.2
125	12.7	13.3	19.9#





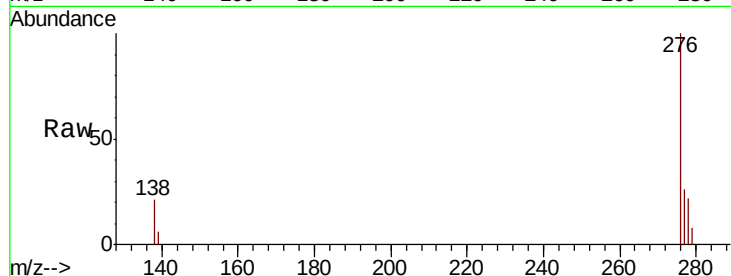
#38
Dibenzo(a,h)anthracene
Concen: 0.103 ng
RT: 25.67 min Scan# 3254
Delta R.T. -0.08 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW081-062519

Tot Ion	Ratio	Lower	Upper
278	100		
139	27.5	16.2	24.4#
279	36.9	20.7	31.1#

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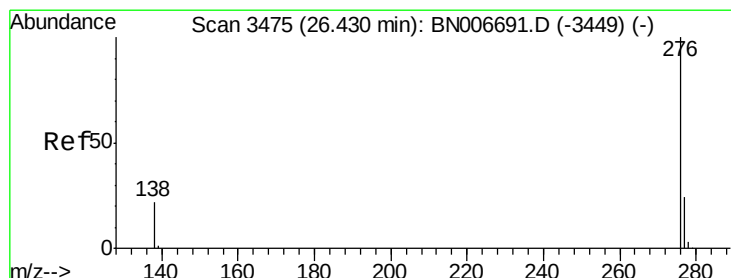
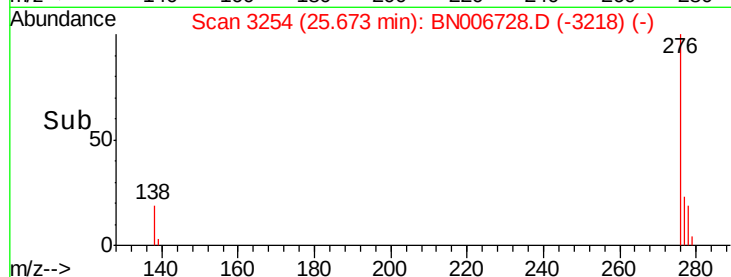
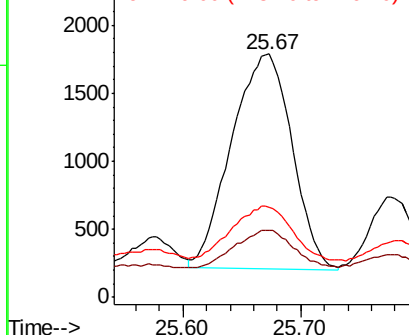


Abundance

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



#39
Benzo(g,h,i)perylene
Concen: 0.427 ng
RT: 26.35 min Scan# 3451
Delta R.T. -0.08 min
Lab File: BN006728.D
Acq: 05 Jul 2019 22:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.1	20.6	30.8
138	22.0	19.7	29.5

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

