

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN051019\
 Data File : BN005595.D
 Acq On : 10 May 2019 19:05
 Operator : JU/SJ
 Sample : K2603-17ME
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: May 10 23:11:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue May 07 05:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	124743	20.00	ng/ul	0.00
18) Naphthalene-d8	10.35	136	516296	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.22	164	311906	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.97	188	679056	20.00	ng/ul	0.00
77) Chrysene-d12	21.21	240	668863	20.00	ng/ul	0.00
85) Perylene-d12	23.42	264	705312	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.20	96	9578	3.71	ng/uL	0.00
5) Phenol-d5	6.77	99	194333	19.84	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	119561	19.56	ng/ul	0.00
9) 2-Chlorophenol-d4	7.12	132	169499	22.61	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	158812	20.74	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	91276	28.72	ng/ul	0.00
22) 2-Nitrophenol-d4	9.44	143	104010	32.29	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.98	165	184093	24.93	ng/ul	0.00
29) 4-Chloroaniline-d4	10.49	131	259843	34.12	ng/ul	0.00
43) Dimethylphthalate-d6	13.63	166	580098	25.62	ng/ul	0.00
46) Acenaphthylene-d8	13.91	160	722294	25.97	ng/ul	0.00
51) 4-Nitrophenol-d4	14.45	143	63067	17.64	ng/ul	0.00
57) Fluorene-d10	15.22	176	499603	26.29	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.37	200	53478	17.51	ng/ul	0.00
70) Anthracene-d10	17.07	188	767377	26.96	ng/ul	0.00
78) Pyrene-d10	19.39	212	880009	25.72	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.29	264	835715	27.11	ng/ul	0.00

Target Compounds

					Ovalue
4) Benzaldehyde	6.75	77	12503	1.801	ng/ul# 1
17) Hexachloroethane	8.67	117	46963	13.952	ng/ul# 6
28) Naphthalene	10.40	128	12140456	505.815	ng/ul 99
32) Caprolactam	11.27	113	4048	1.836	ng/ul# 1
34) 2-Methylnaphthalene	12.02	142	6361567	361.980	ng/ul 99
40) 1,1'-Biphenyl	13.05	154	708603	30.491	ng/ul# 98
44) Dimethylphthalate	13.68	163	65736	2.914	ng/ul# 94
47) Acenaphthylene	13.94	152	3127474	114.437	ng/ul 98
49) Acenaphthene	14.28	153	296795	15.908	ng/ul 97
53) Dibenzofuran	14.62	168	472637	17.595	ng/ul 98
54) 2,4-Dinitrotoluene	14.59	165	18609	3.314	ng/ul# 57
58) Fluorene	15.27	166	1786230	85.217	ng/ul 98
64) N-Nitrosodiphenylamine	15.49	169	56429	3.036	ng/ul# 83
69) Phenanthrene	17.02	178	7547180	228.211	ng/ul 98
71) Anthracene	17.11	178	1751689	51.995	ng/ul 99
74) Carbazole	17.38	167	131976	4.560	ng/ul 96
76) Fluoranthene	19.05	202	2492163	67.939	ng/ul 96
79) Pyrene	19.42	202	3331781	77.365	ng/ul# 94
82) Benzo(a)anthracene	21.25	228	1011384	24.306	ng/ul 95
84) Chrysene	21.25	228	1011384	26.189	ng/ul 98
87) Benzo(b)fluoranthene	22.77	252	758512	19.131	ng/ul 98
88) Benzo(k)fluoranthene	22.77	252	758512	20.032	ng/ul 98
90) Benzo(a)pyrene	23.33	252	751496	20.165	ng/ul 97

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Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

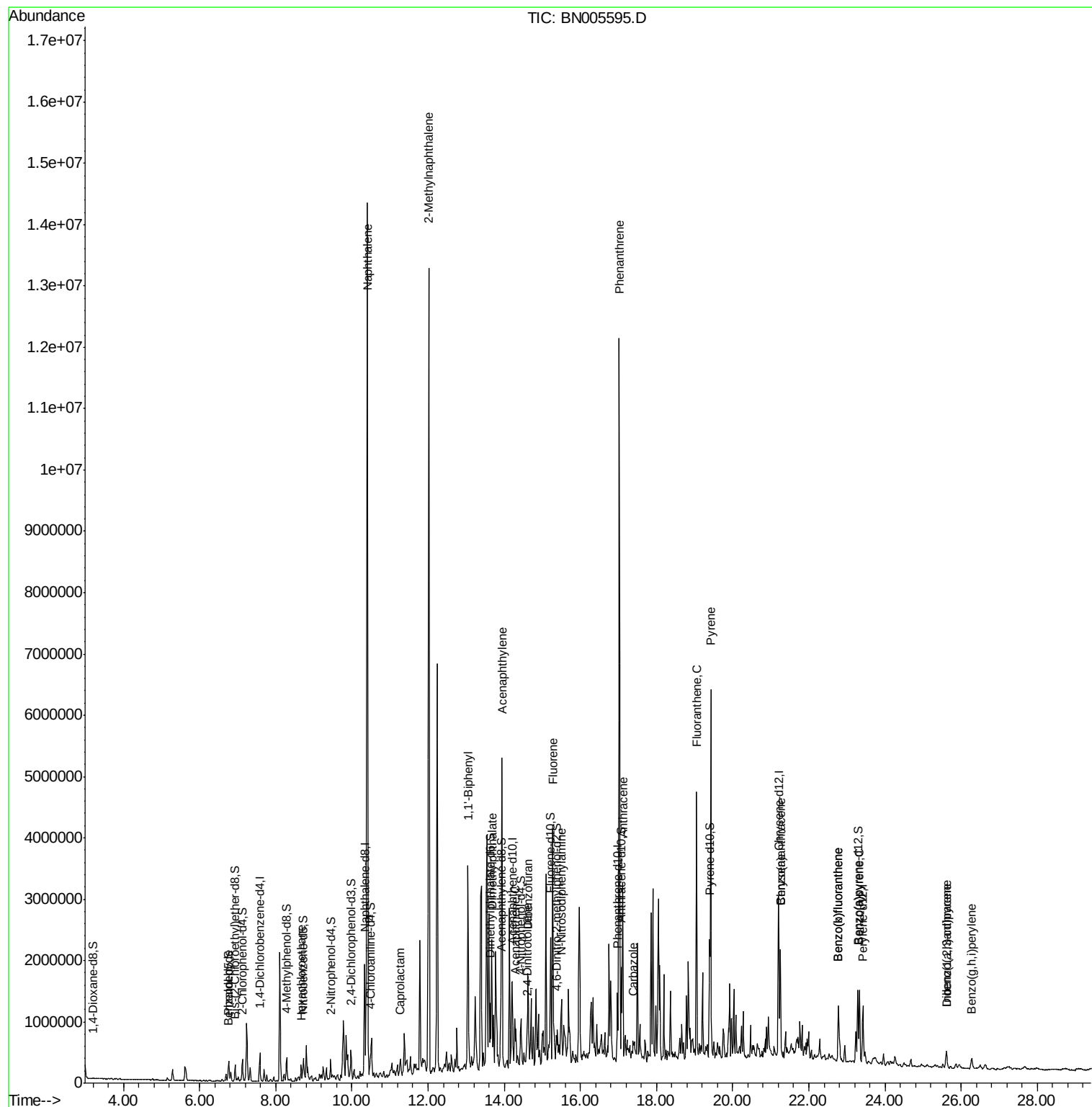
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Indeno(1,2,3-cd)pyrene	25.61	276	250143	6.071	ng/ul	98
92) Dibenzo(a,h)anthracene	25.61	278	76513	2.188	ng/ul	94
93) Benzo(g,h,i)perylene	26.27	276	194567	5.711	ng/ul	95

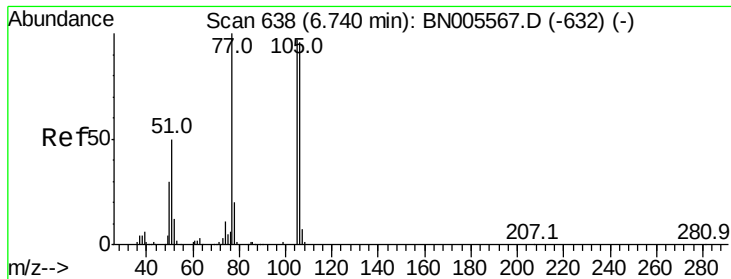
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.801 ng/ul

RT: 6.75 min Scan# 639

Delta R.T. 0.00 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

Instrument :

BNA_N

ClientSampleId :

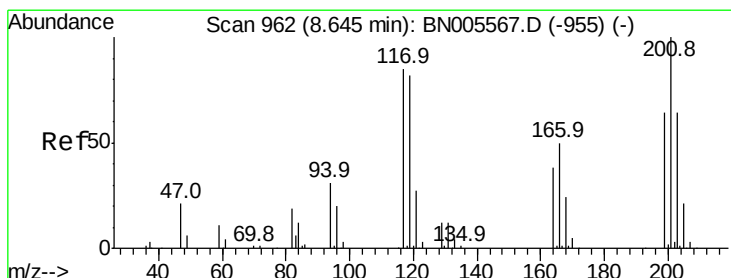
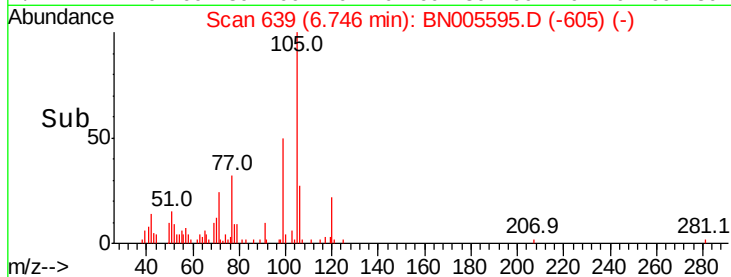
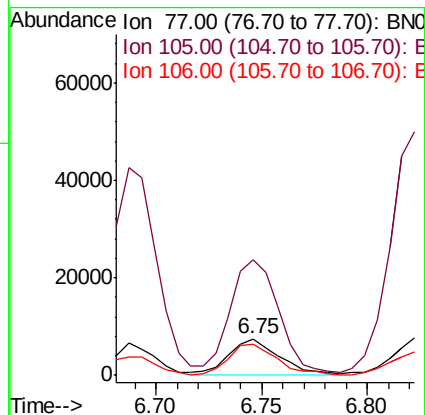
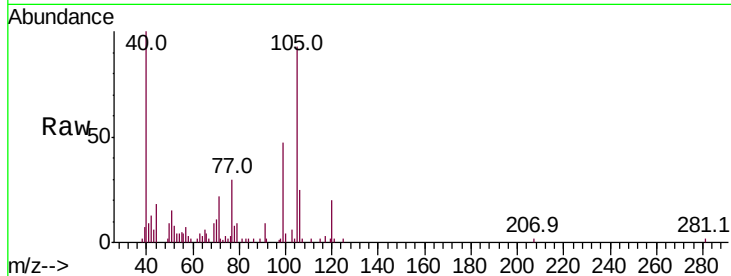
Tot Ion: 77 Resp: 12503

Ion Ratio Lower Upper

77 100

105 315.7 77.4 116.2#

106 84.2 76.3 114.5



#17

Hexachloroethane

Concen: 13.952 ng/ul

RT: 8.67 min Scan# 966

Delta R.T. 0.02 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

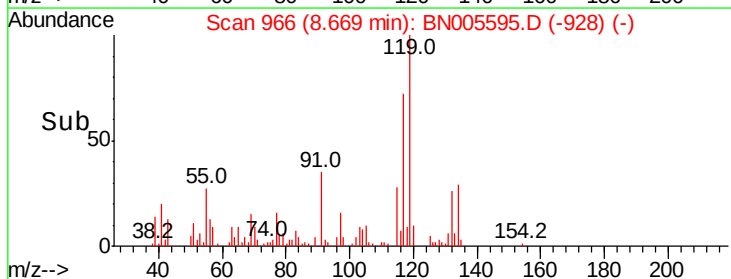
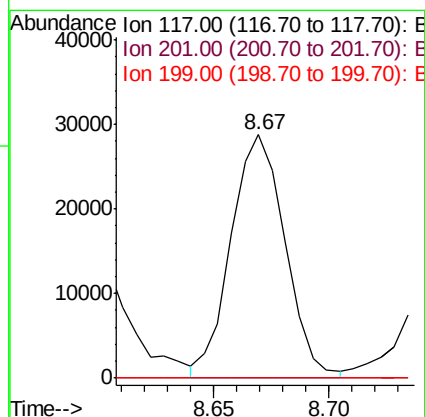
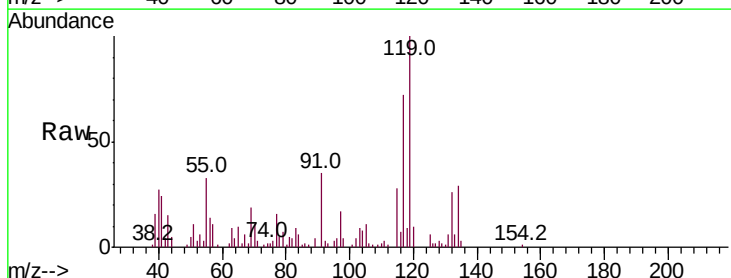
Tgt Ion: 117 Resp: 46963

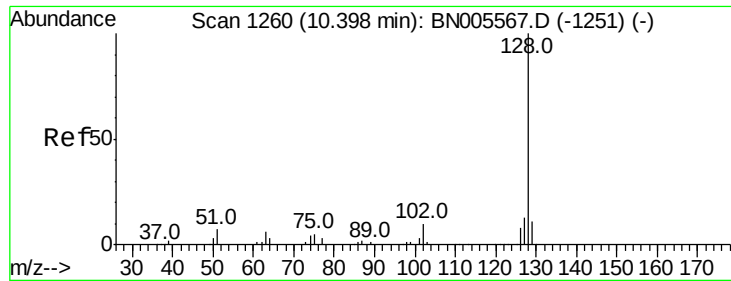
Ion Ratio Lower Upper

117 100

201 0.0 84.1 126.1#

199 0.0 51.2 76.8#

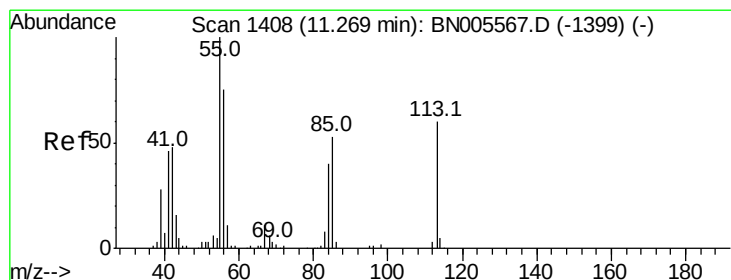
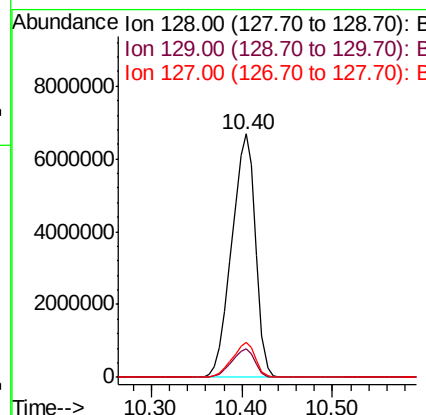
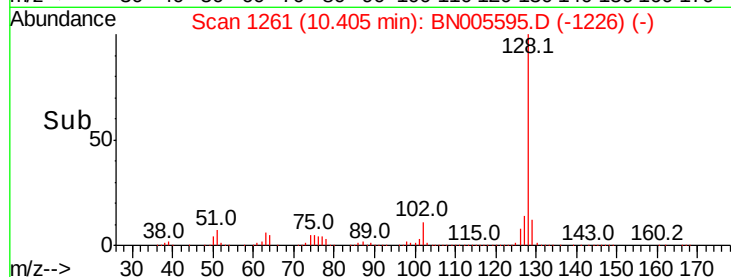
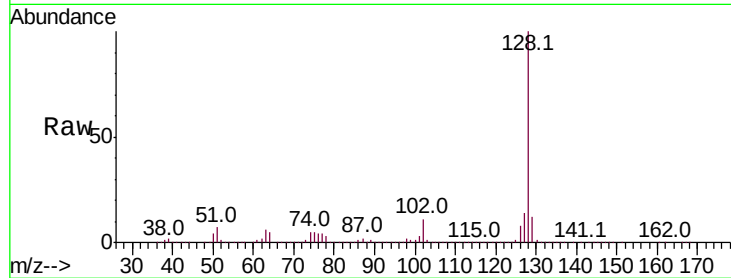




#28
Naphthalene
Concen: 505.815 ng/ul
RT: 10.40 min Scan# 1261
Delta R.T. 0.01 min
Lab File: BN005595.D
Acq: 10 May 2019 19:05

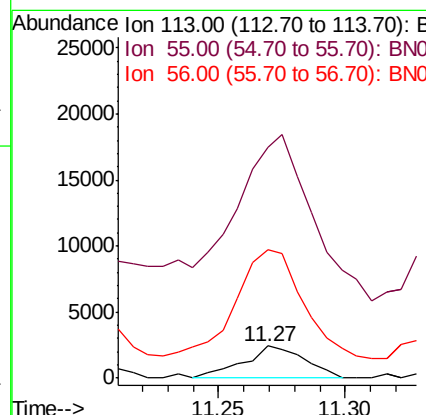
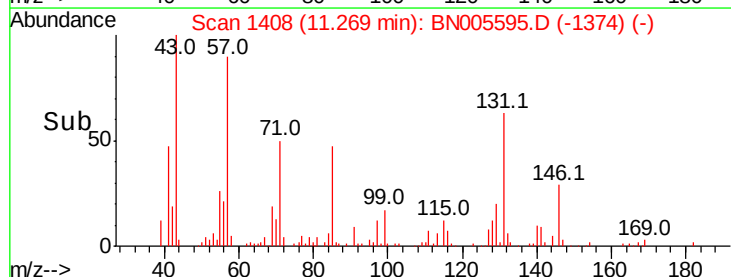
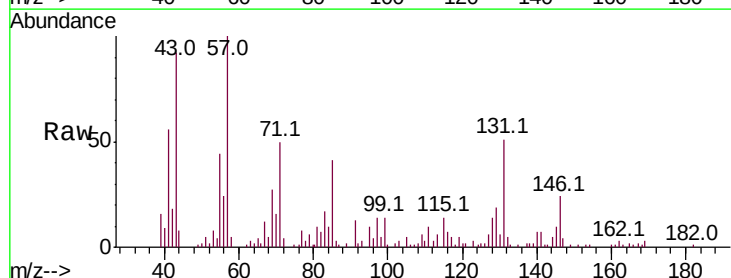
Instrument :
BNA_N
ClientSampled :

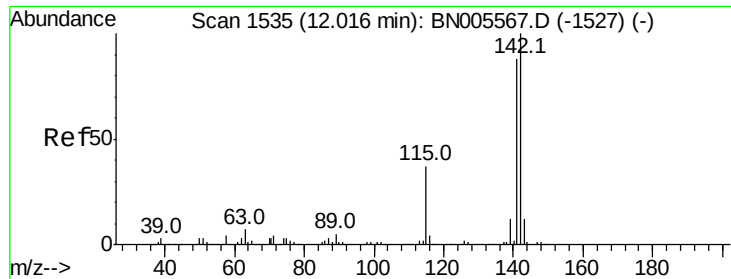
Tot Ion:128 Resp:12140456
Ion Ratio Lower Upper
128 100
129 11.6 9.2 13.8
127 14.2 10.7 16.1



#32
Caprolactam
Concen: 1.836 ng/ul
RT: 11.27 min Scan# 1408
Delta R.T. 0.00 min
Lab File: BN005595.D
Acq: 10 May 2019 19:05

Tgt Ion:113 Resp: 4048
Ion Ratio Lower Upper
113 100
55 724.8 157.0 235.4#
56 401.2 119.1 178.7#

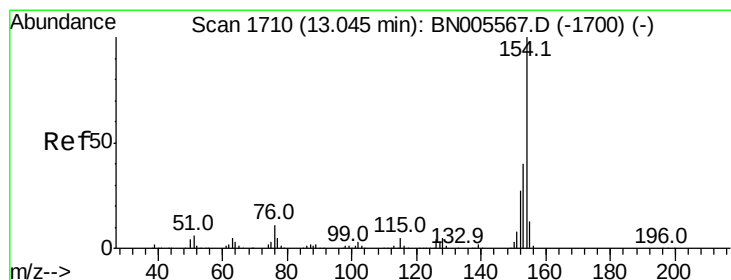
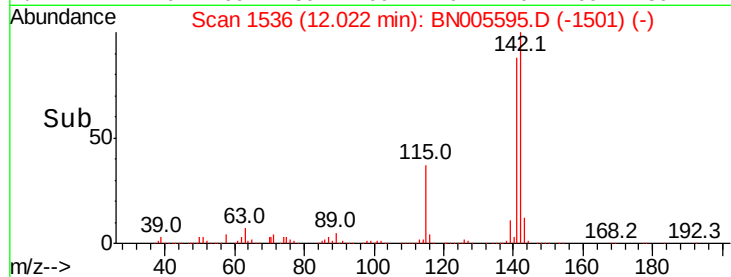
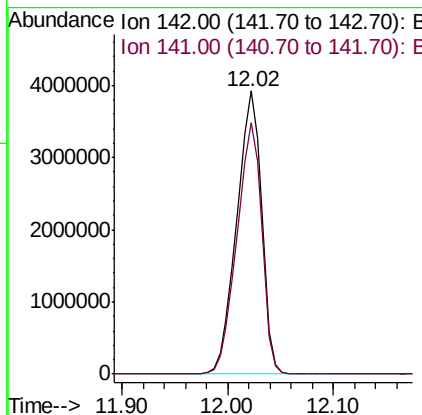
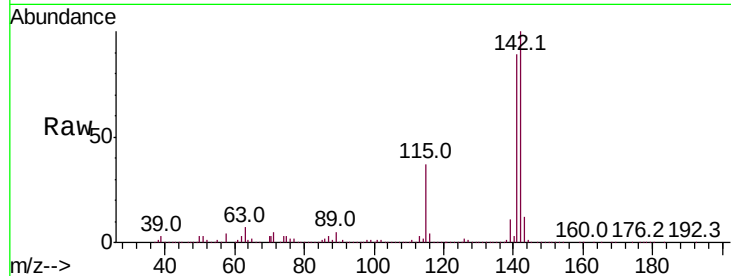




#34
 2-Methylnaphthalene
 Concen: 361.980 ng/ul
 RT: 12.02 min Scan# 1536
 Delta R.T. 0.01 min
 Lab File: BN005595.D
 Acq: 10 May 2019 19:05

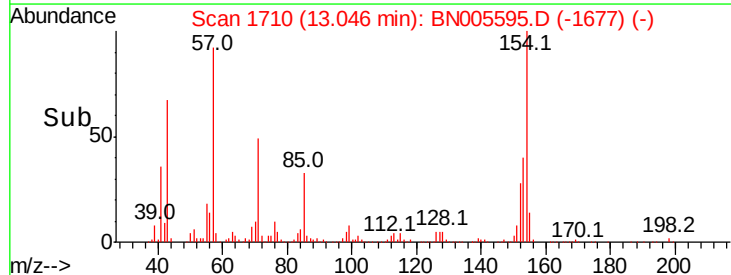
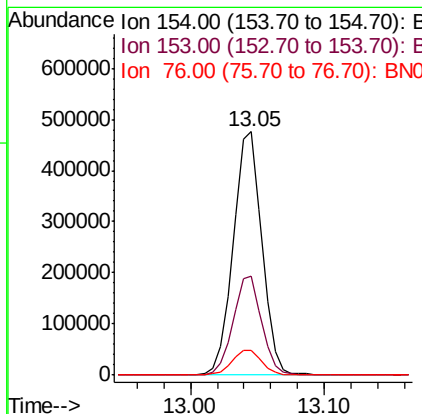
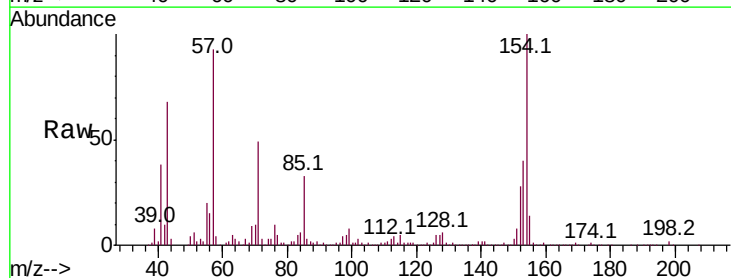
Instrument :
 BNA_N
 ClientSampleId :

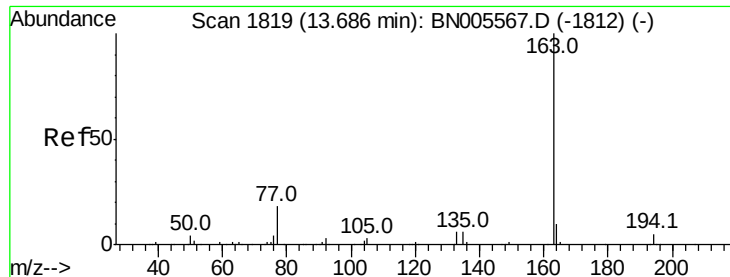
Tot Ion:142 Resp: 6361567
 Ion Ratio Lower Upper
 142 100
 141 88.6 72.0 108.0



#40
 1,1'-Biphenyl
 Concen: 30.491 ng/ul
 RT: 13.05 min Scan# 1710
 Delta R.T. -0.01 min
 Lab File: BN005595.D
 Acq: 10 May 2019 19:05

Tgt Ion:154 Resp: 708603
 Ion Ratio Lower Upper
 154 100
 153 40.5 32.6 49.0
 76 10.1 10.4 15.6#





#44

Dimethylphthalate

Concen: 2.914 ng/ul

RT: 13.68 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

Instrument :

BNA_N

ClientSampleId :

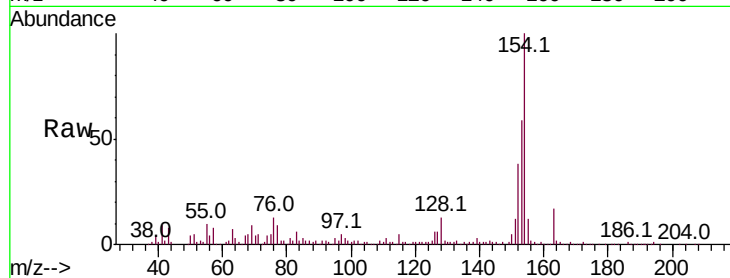
Tot Ion:163 Resp: 65736

Ion Ratio Lower Upper

163 100

194 6.0 3.4 5.0#

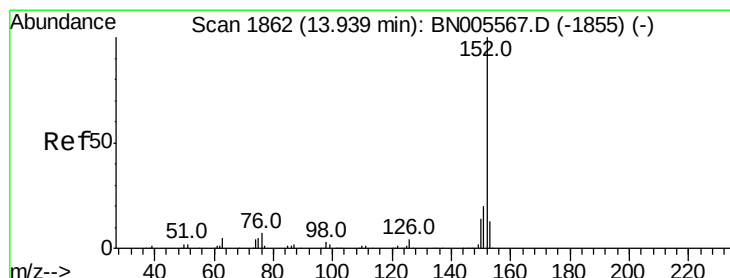
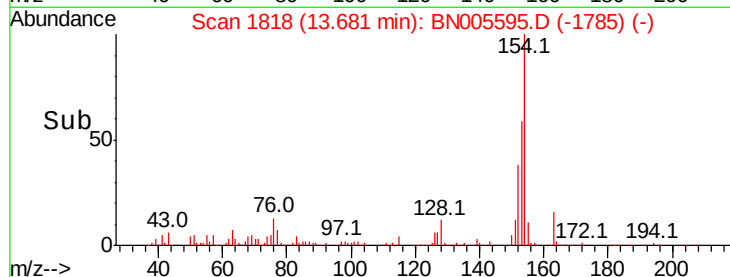
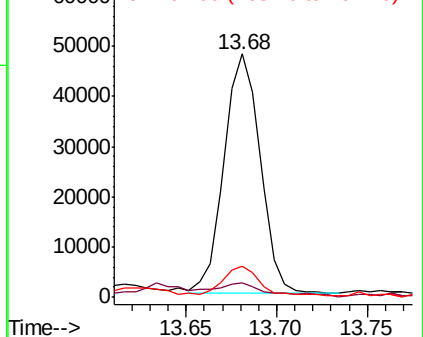
164 12.6 8.1 12.1#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#47

Acenaphthylene

Concen: 114.437 ng/ul

RT: 13.94 min Scan# 1862

Delta R.T. 0.00 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

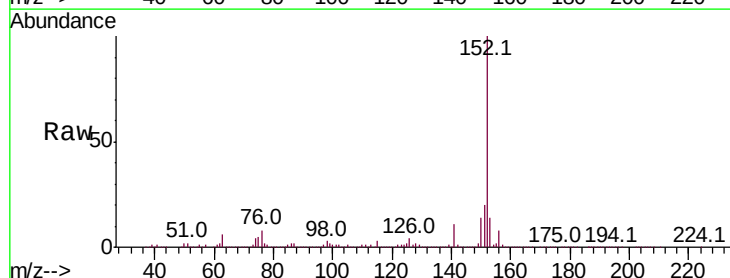
Tgt Ion:152 Resp: 3127474

Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

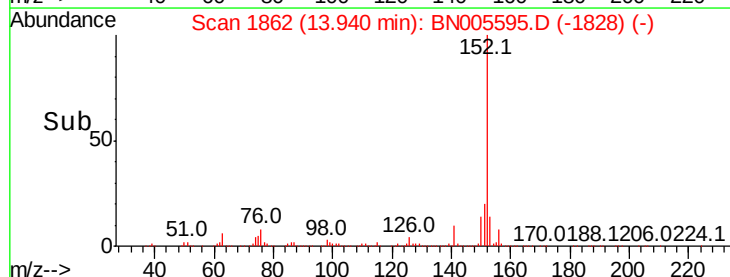
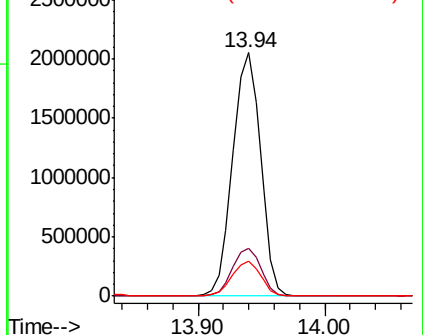
153 14.4 9.8 14.8

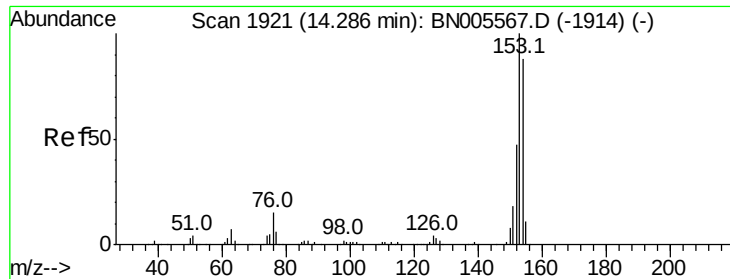


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 15.908 ng/ul

RT: 14.28 min Scan# 1920

Delta R.T. -0.01 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

Instrument :

BNA_N

ClientSampleId :

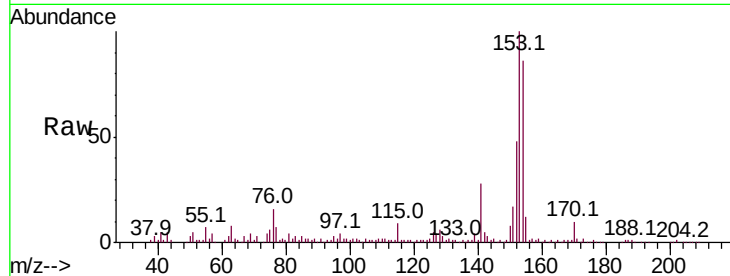
Tot Ion:153 Resp: 296795

Ion Ratio Lower Upper

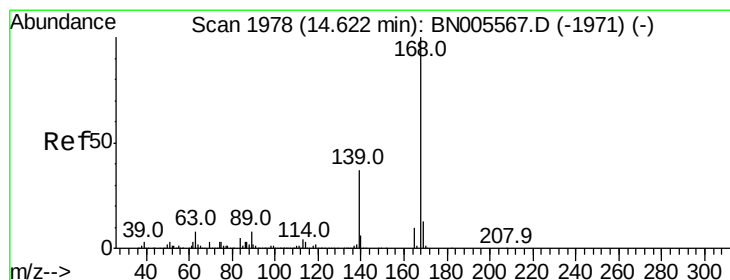
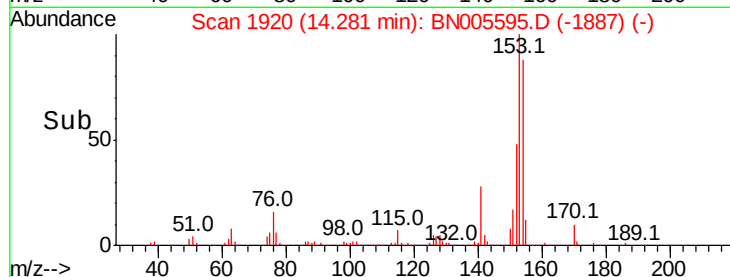
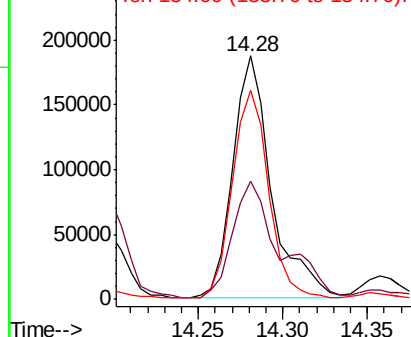
153 100

152 48.4 37.4 56.0

154 85.7 71.2 106.8



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 17.595 ng/ul

RT: 14.62 min Scan# 1978

Delta R.T. -0.01 min

Lab File: BN005595.D

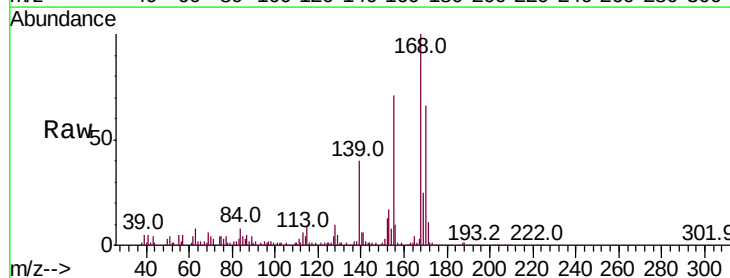
Acq: 10 May 2019 19:05

Tgt Ion:168 Resp: 472637

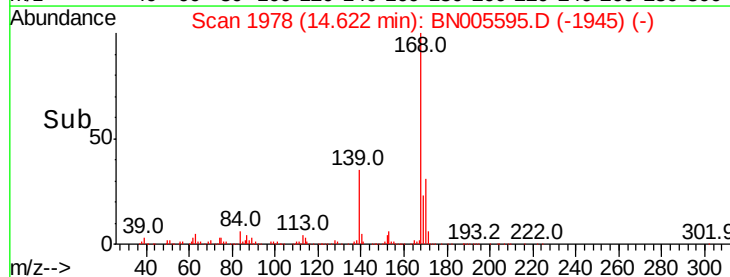
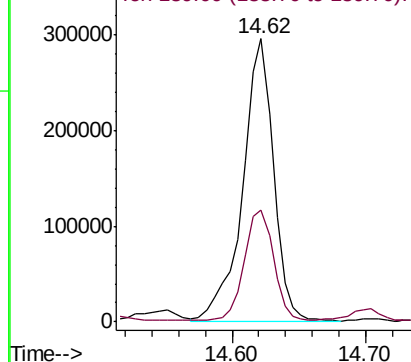
Ion Ratio Lower Upper

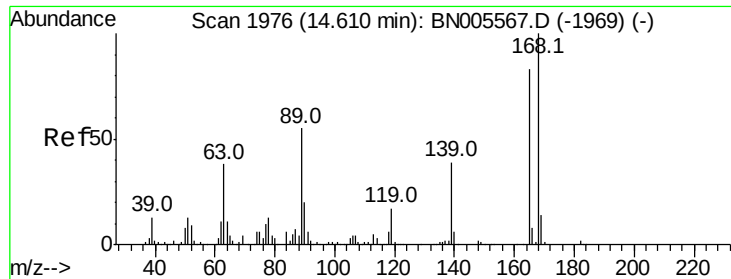
168 100

139 39.7 30.9 46.3



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E

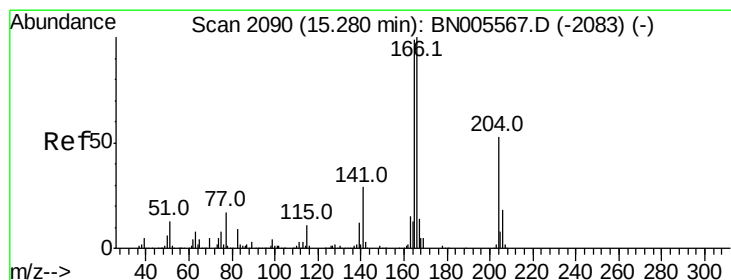
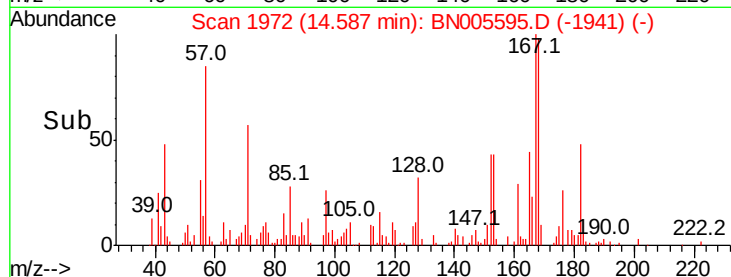
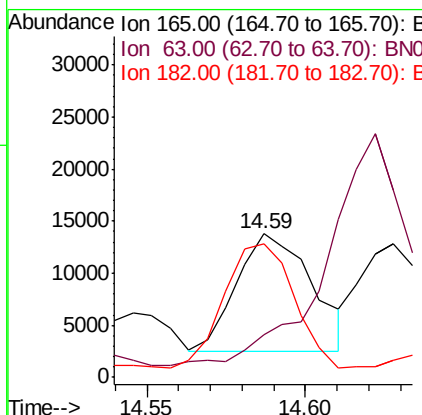
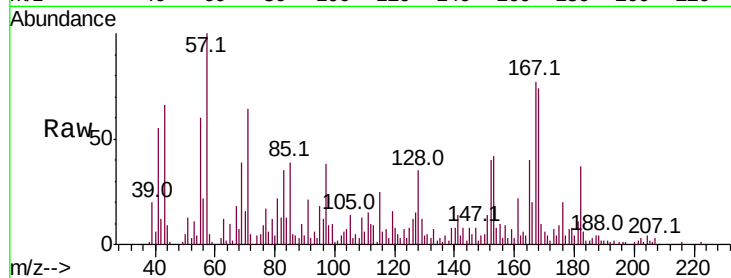




#54
 2,4-Dinitrotoluene
 Concen: 3.314 ng/ul
 RT: 14.59 min Scan# 1972
 Delta R.T. -0.02 min
 Lab File: BN005595.D
 Acq: 10 May 2019 19:05

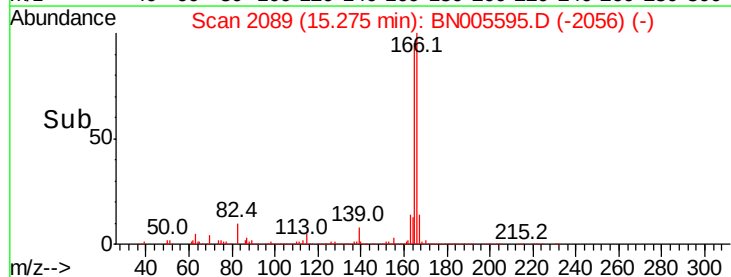
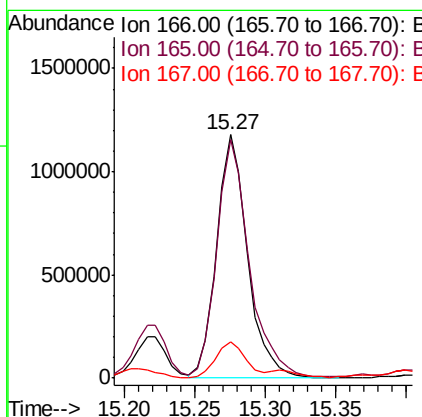
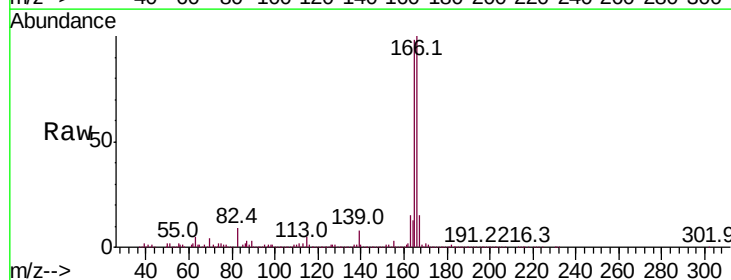
Instrument :
 BNA_N
 ClientSampleId :

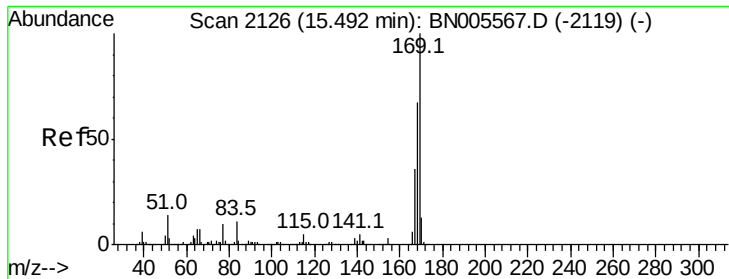
Tot Ion:165 Resp: 18609
 Ion Ratio Lower Upper
 165 100
 63 29.4 38.9 58.3#
 182 93.4 2.6 3.8#



#58
 Fluorene
 Concen: 85.217 ng/ul
 RT: 15.27 min Scan# 2089
 Delta R.T. -0.01 min
 Lab File: BN005595.D
 Acq: 10 May 2019 19:05

Tgt Ion:166 Resp: 1786230
 Ion Ratio Lower Upper
 166 100
 165 98.1 80.0 120.0
 167 14.8 10.7 16.1



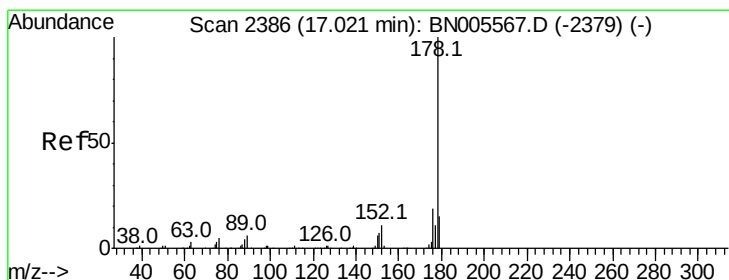
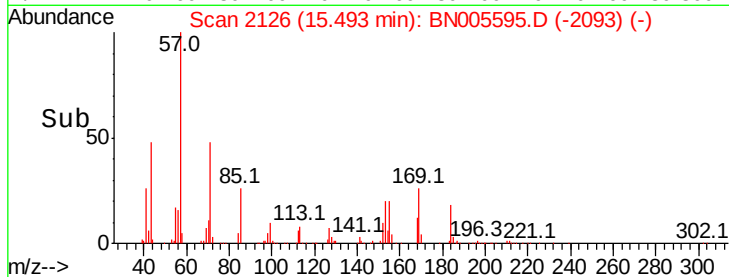
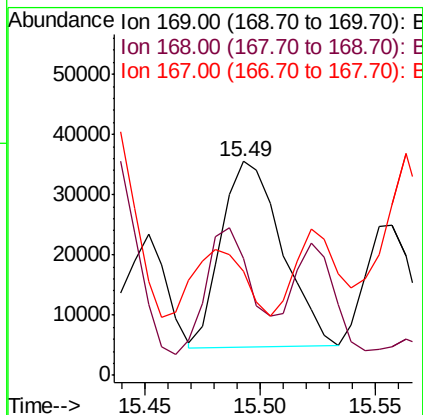
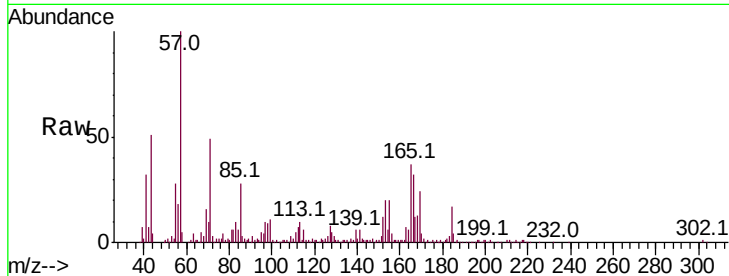


#64

N-Nitrosodiphenylamine
 Concen: 3.036 ng/ul
 RT: 15.49 min Scan# 2126
 Delta R.T. -0.01 min
 Lab File: BN005595.D
 Acq: 10 May 2019 19:05

Instrument :
 BNA_N
 ClientSampleId :

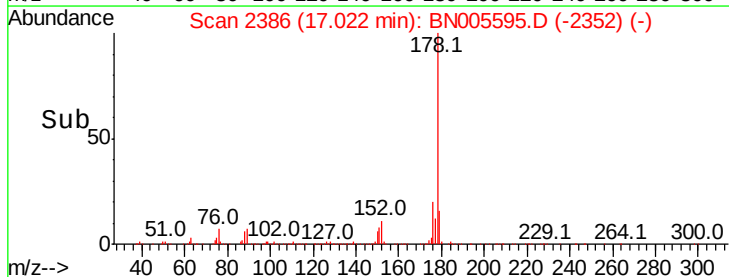
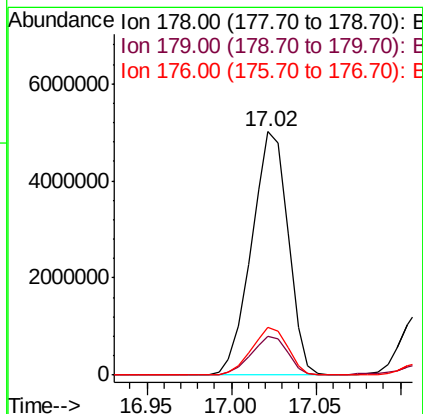
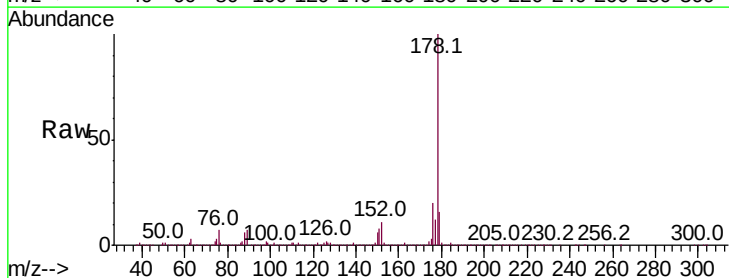
Tot Ion:169 Resp: 56429
 Ion Ratio Lower Upper
 169 100
 168 54.6 52.2 78.2
 167 48.9 27.7 41.5#

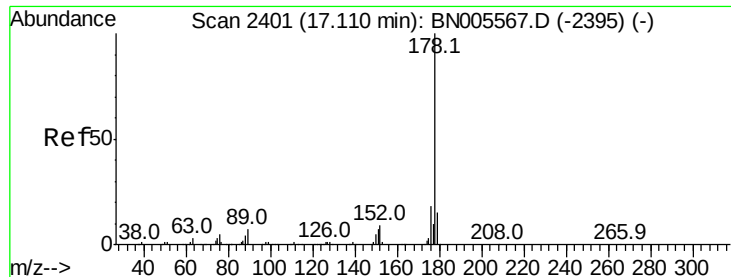


#69

Phenanthrene
 Concen: 228.211 ng/ul
 RT: 17.02 min Scan# 2386
 Delta R.T. 0.00 min
 Lab File: BN005595.D
 Acq: 10 May 2019 19:05

Tgt Ion:178 Resp: 7547180
 Ion Ratio Lower Upper
 178 100
 179 16.0 12.2 18.4
 176 19.6 15.1 22.7



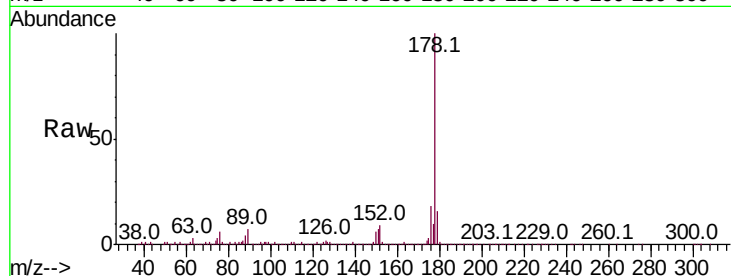


#71
 Anthracene
 Concen: 51.995 ng/ul
 RT: 17.11 min Scan# 2401
 Delta R.T. 0.00 min
 Lab File: BN005595.D
 Acq: 10 May 2019 19:05

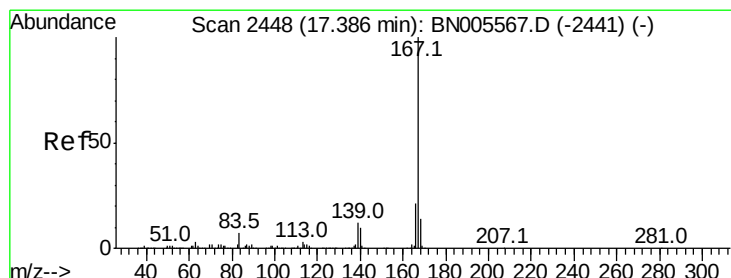
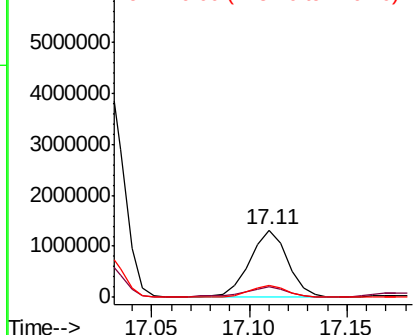
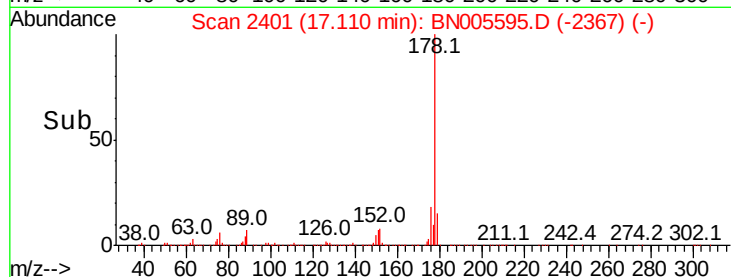
Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:178 Resp: 1751689

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.3	18.5
176	18.3	15.1	22.7



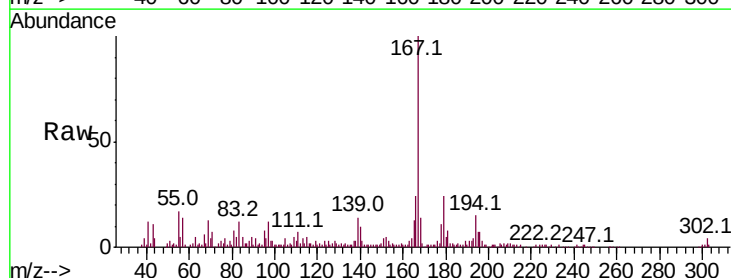
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 176.00 (175.70 to 176.70): E



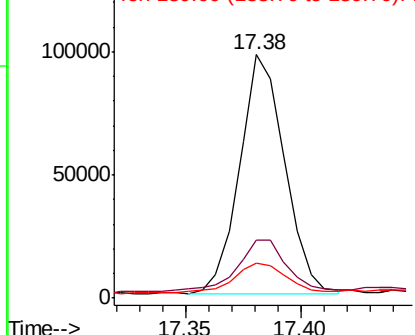
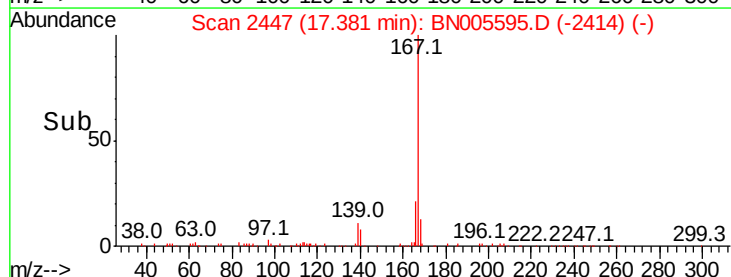
#74
 Carbazole
 Concen: 4.560 ng/ul
 RT: 17.38 min Scan# 2447
 Delta R.T. -0.01 min
 Lab File: BN005595.D
 Acq: 10 May 2019 19:05

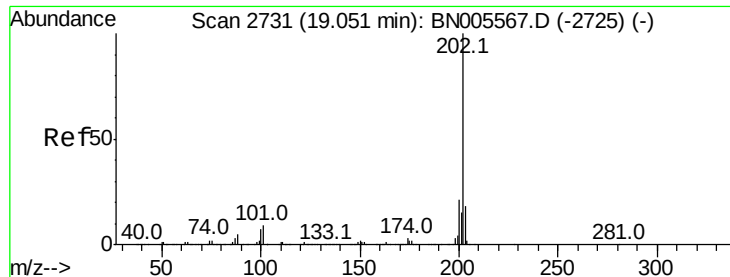
Tgt Ion:167 Resp: 131976

Ion	Ratio	Lower	Upper
167	100		
166	23.8	17.2	25.8
139	14.2	10.6	16.0



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#76

Fluoranthene

Concen: 67.939 ng/ul

RT: 19.05 min Scan# 2731

Delta R.T. -0.01 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

Instrument :

BNA_N

ClientSampled :

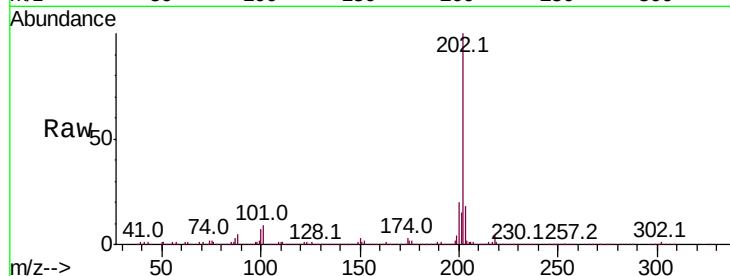
Tot Ion:202 Resp: 2492163

Ion	Ratio	Lower	Upper
202	100		
101	8.6	8.6	12.8
100	6.8	6.3	9.5

202 100

101 8.6 8.6 12.8

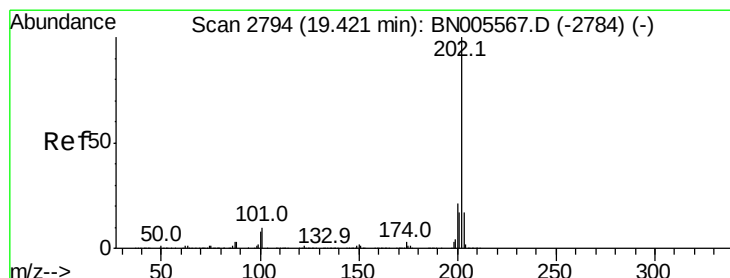
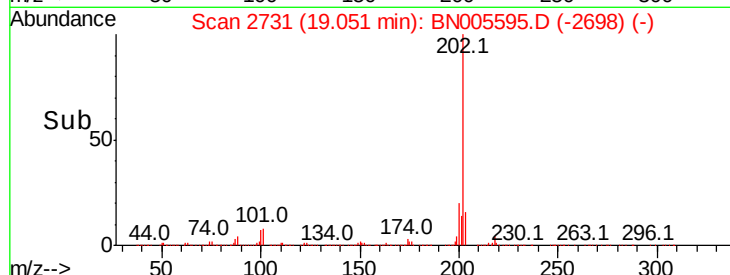
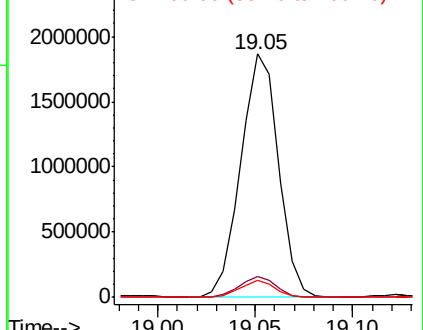
100 6.8 6.3 9.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#79

Pyrene

Concen: 77.365 ng/ul

RT: 19.42 min Scan# 2794

Delta R.T. 0.00 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

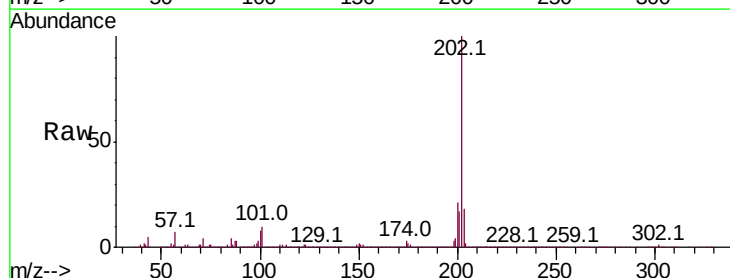
Tgt Ion:202 Resp: 3331781

Ion	Ratio	Lower	Upper
202	100		
101	9.9	10.3	15.5#
100	8.1	7.9	11.9

202 100

101 9.9 10.3 15.5#

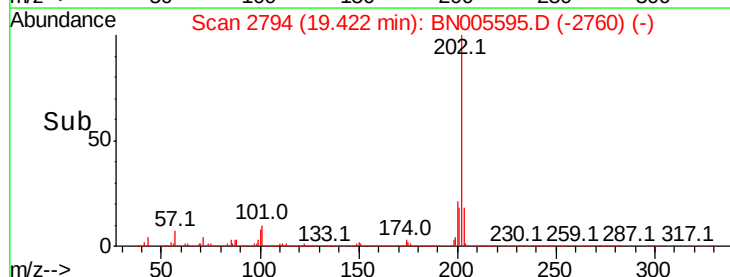
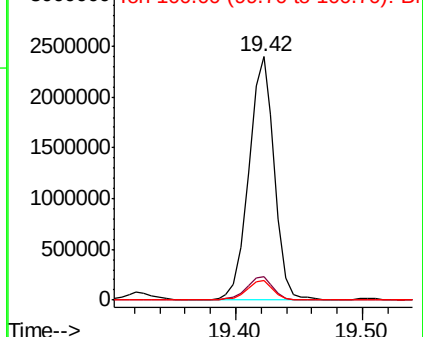
100 8.1 7.9 11.9

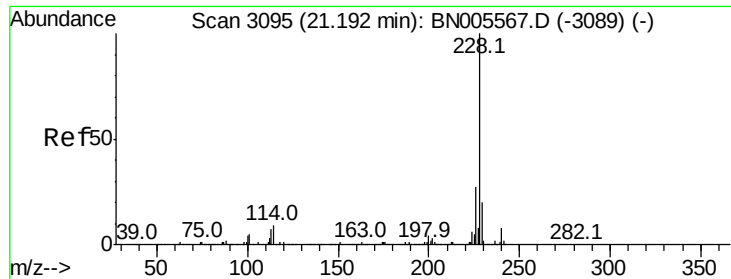


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#82

Benzo(a)anthracene

Concen: 24.306 ng/ul

RT: 21.25 min Scan# 3105

Delta R.T. 0.05 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

Instrument :

BNA_N

ClientSampleId :

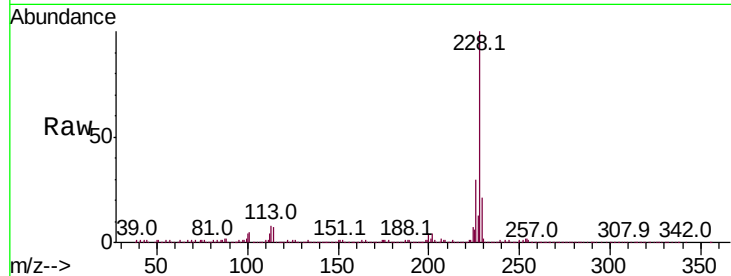
Tot Ion:228 Resp: 1011384

Ion Ratio Lower Upper

228 100

229 21.0 15.8 23.6

226 30.2 21.4 32.2

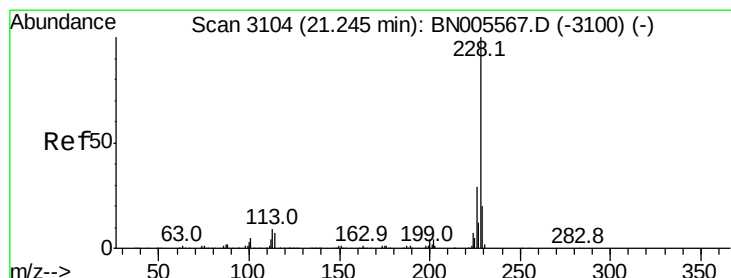
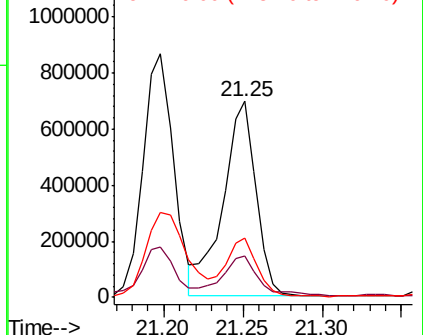
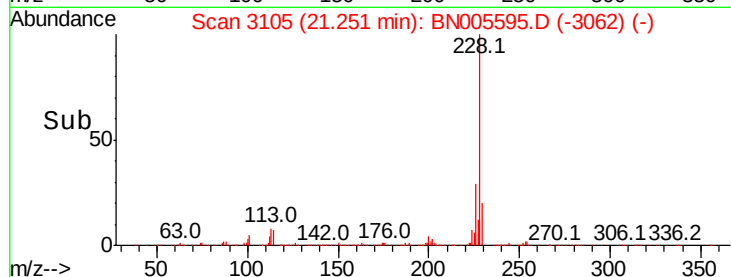


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#84

Chrysene

Concen: 26.189 ng/ul

RT: 21.25 min Scan# 3105

Delta R.T. 0.00 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

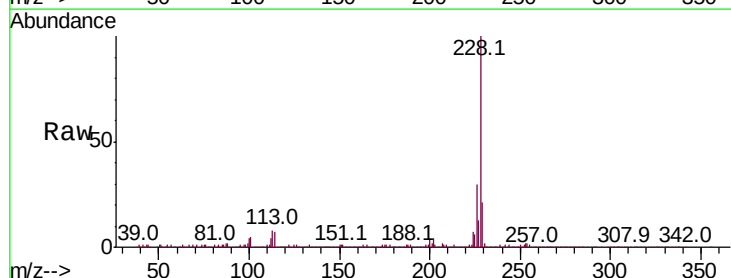
Tgt Ion:228 Resp: 1011384

Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

229 21.0 15.4 23.0

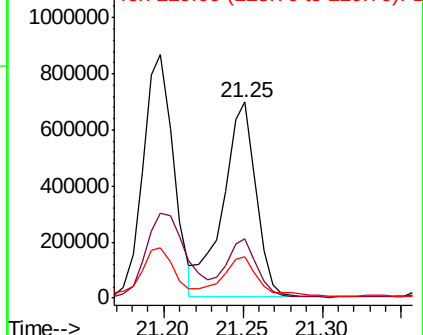
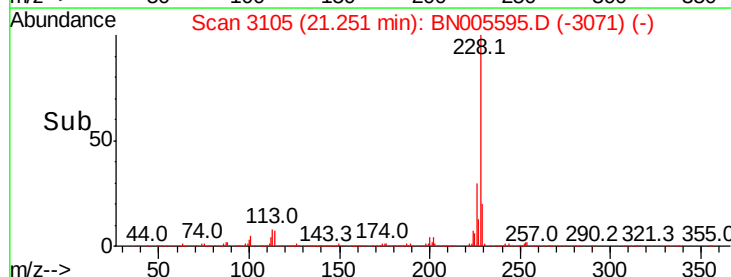


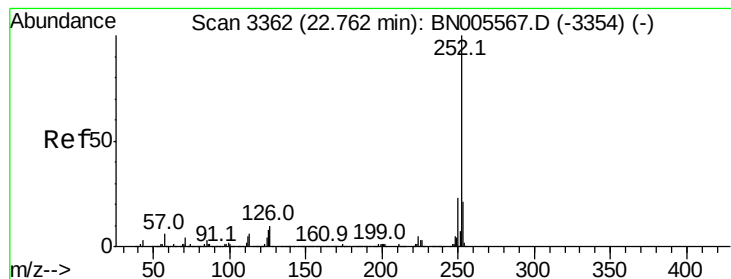
Abundance

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





#87

Benzo(b)fluoranthene

Concen: 19.131 ng/ul

RT: 22.77 min Scan# 3363

Delta R.T. 0.01 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

Instrument :

BNA_N

ClientSampleId :

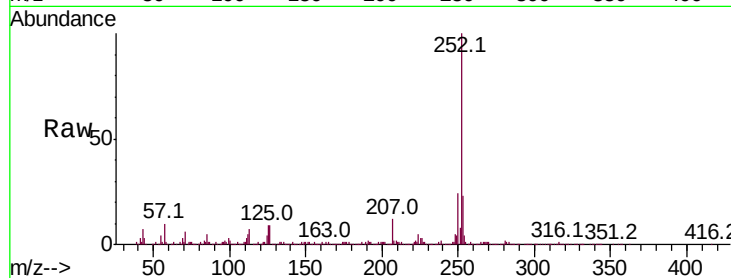
Tot Ion:252 Resp: 758512

Ion Ratio Lower Upper

252 100

253 22.7 17.7 26.5

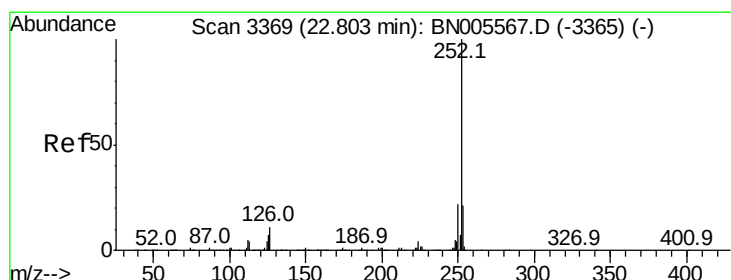
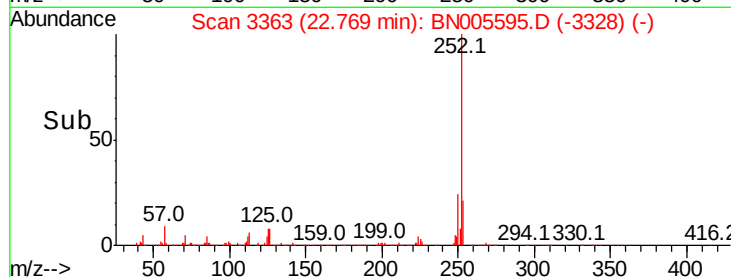
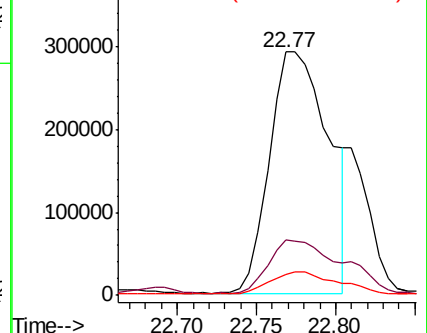
125 8.8 8.4 12.6



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



#88

Benzo(k)fluoranthene

Concen: 20.032 ng/ul

RT: 22.77 min Scan# 3363

Delta R.T. -0.04 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

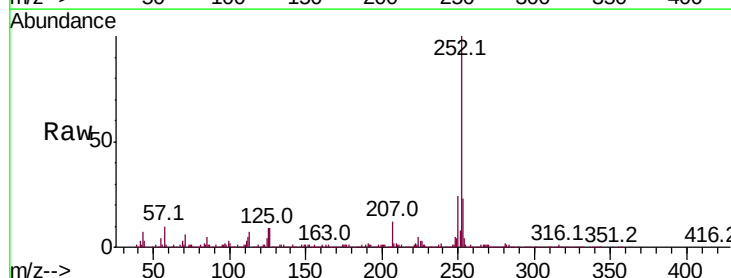
Tgt Ion:252 Resp: 758512

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

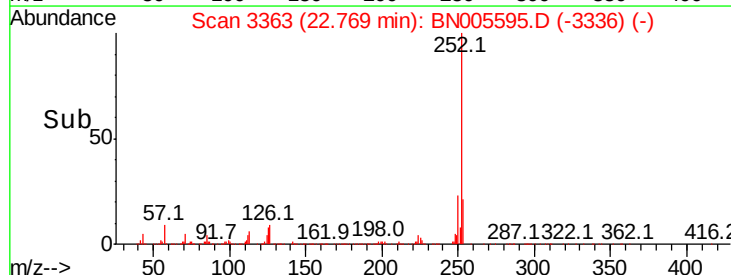
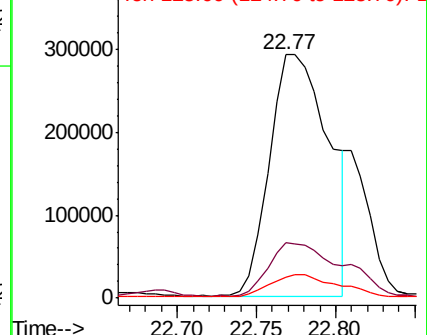
125 8.8 7.5 11.3

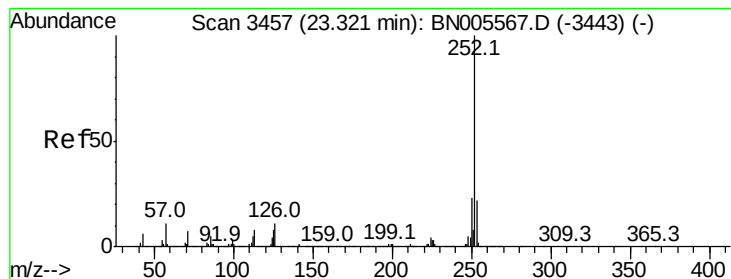


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 20.165 ng/ul

RT: 23.33 min Scan# 3458

Delta R.T. 0.00 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

Instrument :

BNA_N

ClientSampled :

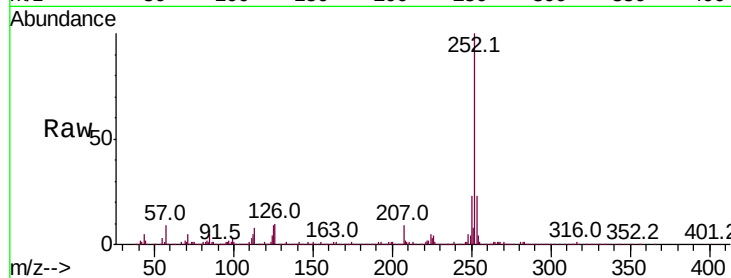
Tot Ion:252 Resp: 751496

Ion Ratio Lower Upper

252 100

253 22.5 17.3 25.9

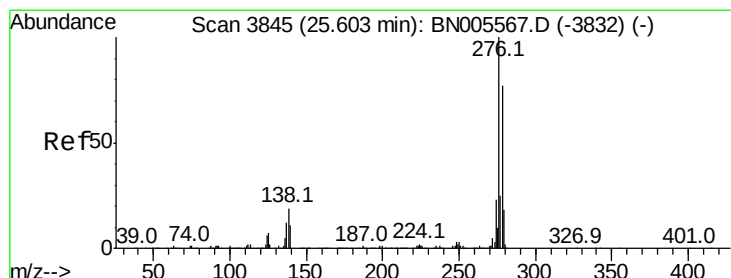
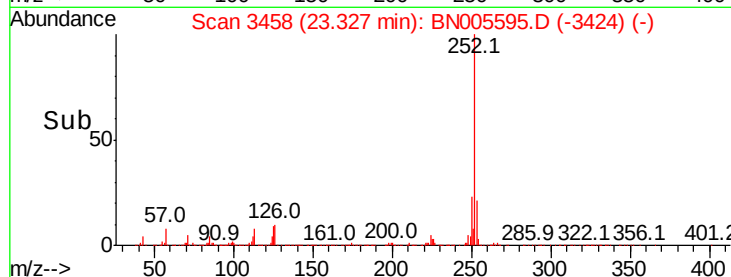
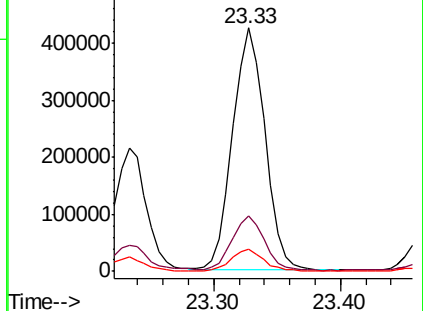
125 9.0 8.6 13.0



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

Indeno(1,2,3-cd)pyrene

Concen: 6.071 ng/ul

RT: 25.61 min Scan# 3846

Delta R.T. 0.00 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

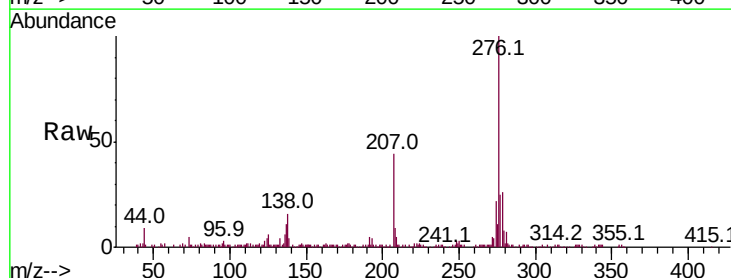
Tgt Ion:276 Resp: 250143

Ion Ratio Lower Upper

276 100

138 20.9 17.9 26.9

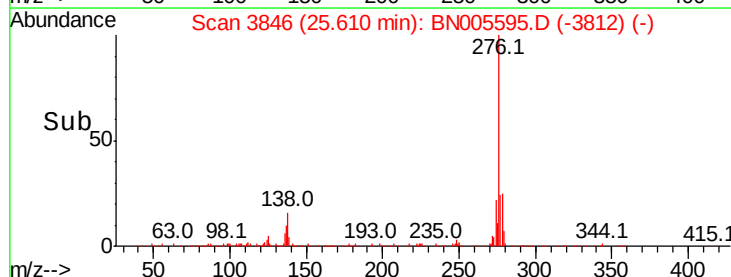
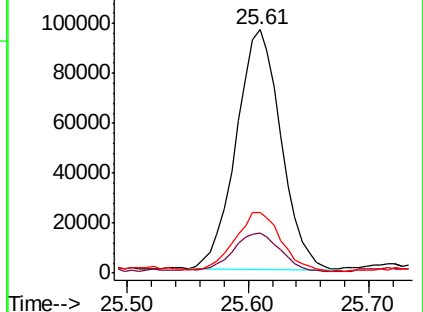
277 24.7 19.7 29.5

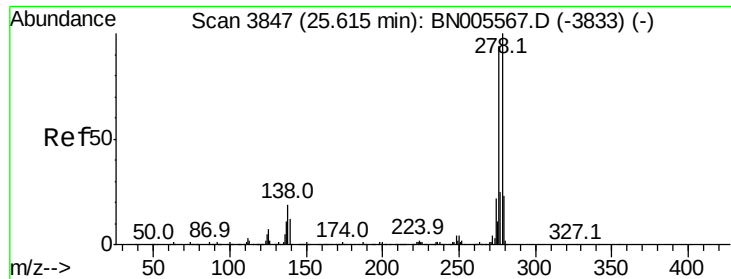


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#92

Dibenzo(a,h)anthracene

Concen: 2.188 ng/ul

RT: 25.61 min Scan# 3846

Delta R.T. -0.01 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

Instrument :

BNA_N

ClientSampleId :

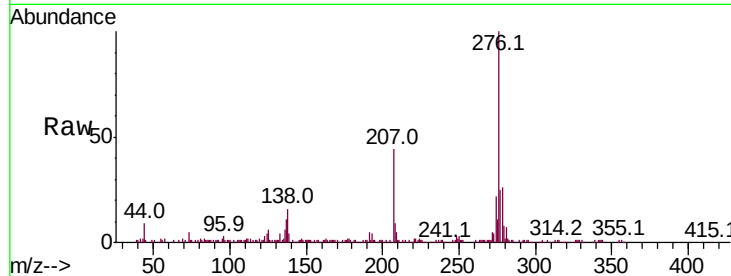
Tot Ion:278 Resp: 76513

Ion Ratio Lower Upper

278 100

139 17.0 13.1 19.7

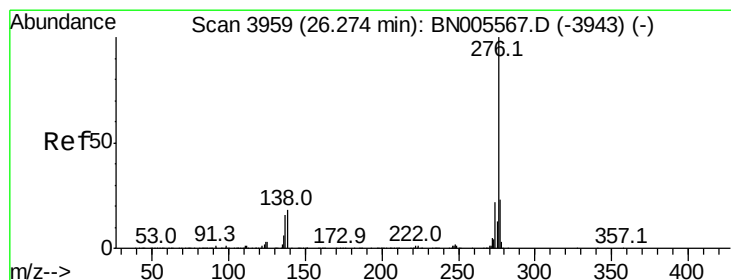
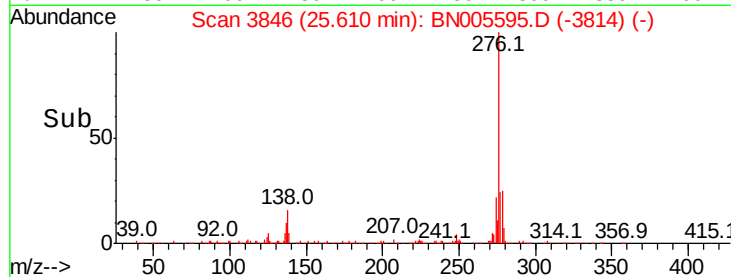
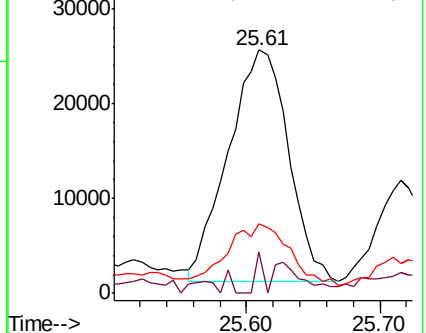
279 28.8 19.4 29.0



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



#93

Benzo(g,h,i)perylene

Concen: 5.711 ng/ul

RT: 26.27 min Scan# 3959

Delta R.T. 0.00 min

Lab File: BN005595.D

Acq: 10 May 2019 19:05

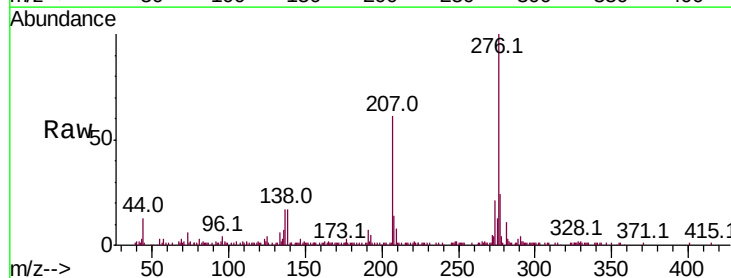
Tgt Ion:276 Resp: 194567

Ion Ratio Lower Upper

276 100

138 16.8 16.7 25.1

277 23.5 18.2 27.2



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

