

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082919\
 Data File : BM022415.D
 Acq On : 29 Aug 2019 19:34
 Operator : HP/JU
 Sample : K4573-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 S700B-N-0.0-0.5-082719

Manual Integrations
 APPROVED

Jagrut
 8/30/2019 10:29:56 AM

Quant Time: Aug 29 20:08:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 29 16:51:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	15279	20.00	ng	0.00
21) Naphthalene-d8	10.30	136	51459	20.00	ng	0.00
39) Acenaphthene-d10	14.19	164	31513	20.00	ng	0.00
64) Phenanthrene-d10	16.95	188	74550	20.00	ng	0.00
76) Chrysene-d12	21.17	240	110213	20.00	ng	0.00
87) Perylene-d12	23.35	264	141518	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.15	112	80733	92.75	ng	0.00
7) Phenol-d6	6.72	99	105286	90.45	ng	0.00
23) Nitrobenzene-d5	8.70	82	72580	61.78	ng	0.00
42) 2,4,6-Tribromophenol	15.70	330	55173	85.56	ng	0.00
45) 2-Fluorobiphenyl	12.79	172	164260	59.05	ng	0.00
79) Terphenyl-d14	19.60	244	379893	45.49	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.75	94	4571	3.909	ng	# 60
50) Dimethylphthalate	13.67	163	12833	4.682	ng	# 93
71) Phenanthrene	16.99	178	53009	12.199	ng	# 98
72) Anthracene	17.09	178	12024	2.812	ng	# 92
73) Carbazole	17.38	167	7582	2.145	ng	# 93
75) Fluoranthene	19.02	202	160217	27.686	ng	# 97
78) Pyrene	19.39	202	135334	18.018	ng	# 100
81) Benzo(a)anthracene	21.15	228	88948	11.244	ng	# 99
83) Chrysene	21.20	228	88600	11.767	ng	# 99
86) Indeno(1,2,3-cd)pyrene	25.53	276	73044	9.644	ng	# 98
88) Benzo(b)fluoranthene	22.70	252	148197	15.074	ng	# 97
89) Benzo(k)fluoranthene	22.74	252	42579m	4.366	ng	# 97
90) Benzo(a)pyrene	23.26	252	91255	10.457	ng	# 99
91) Dibenzo(a,h)anthracene	25.53	278	19401	2.230	ng	# 92
92) Benzo(a,h,i)perylene	26.20	276	74216	9.786	ng	# 97

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

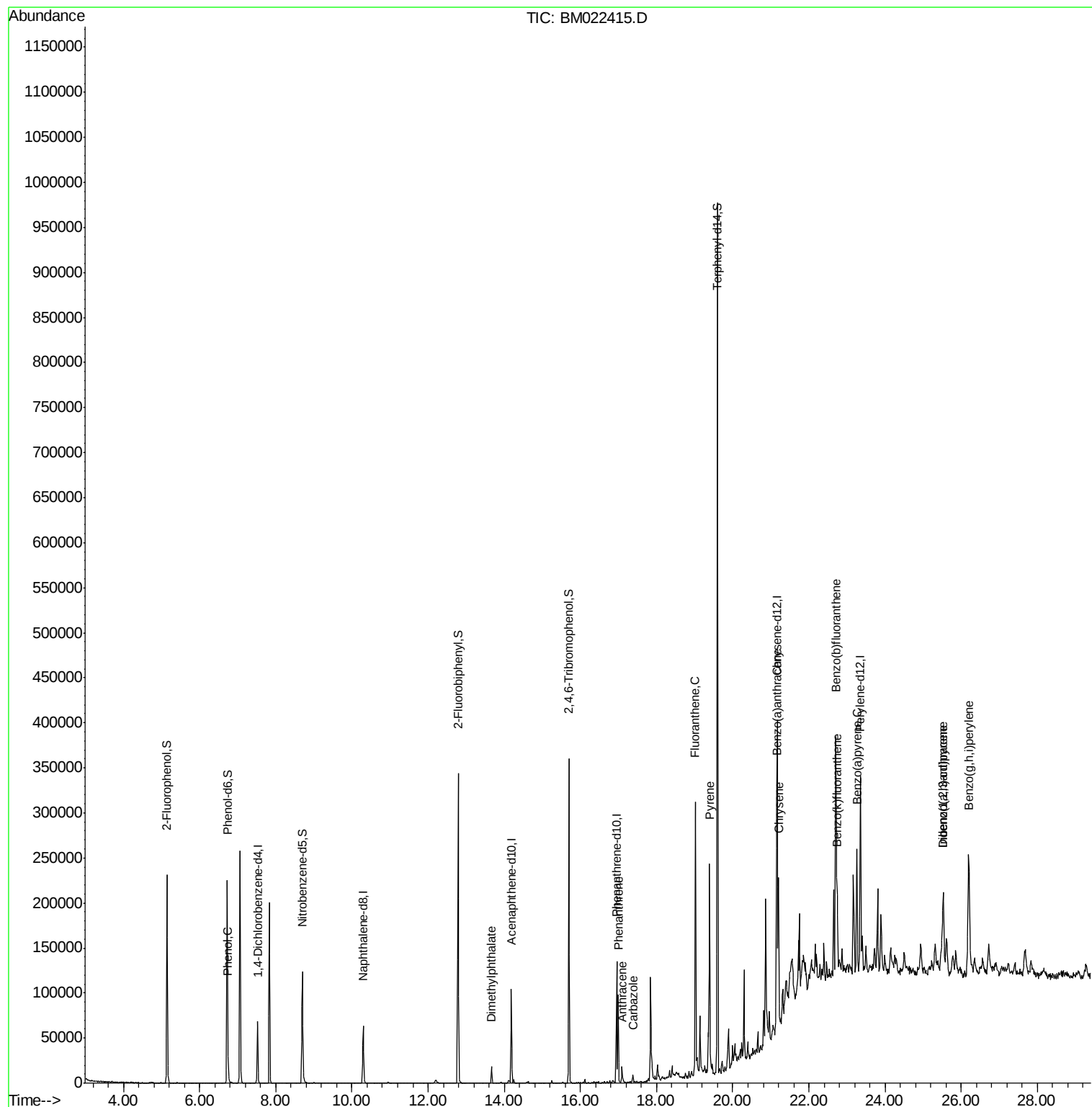
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082919\
Data File : BM022415.D
Acq On : 29 Aug 2019 19:34
Operator : HP/JU
Sample : K4573-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

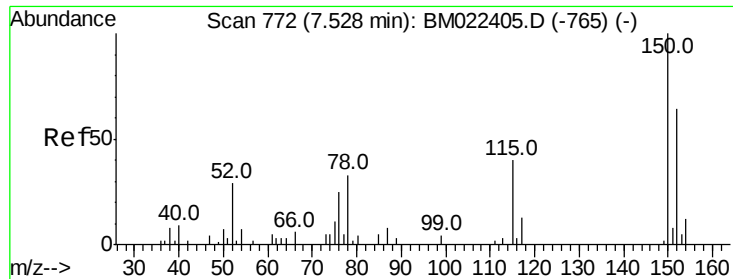
Instrument :
BNA_M
ClientSampleId :
S700B-N-0.0-0.5-082719

Manual Integrations
APPROVED

Jagrut
8/30/2019 10:29:56 AM

Quant Time: Aug 29 20:08:46 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 29 16:51:32 2019
Response via : Initial Calibration





#1

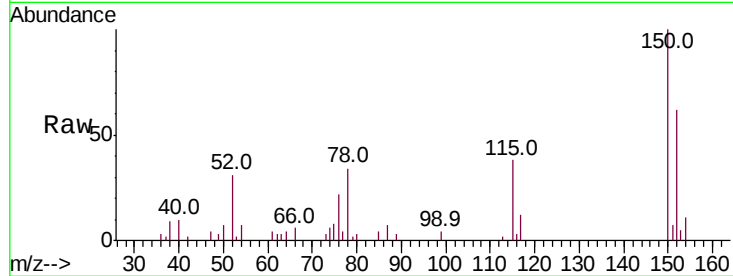
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.52 min Scan# 771
Delta R.T. -0.01 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Instrument :
BNA_M
ClientSampleId :
S700B-N-0.0-0.5-082719

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.3	125.4	188.0
115	60.5	50.3	75.5

Manual Integrations
APPROVED

Jagrut
8/30/2019 10:29:56 AM

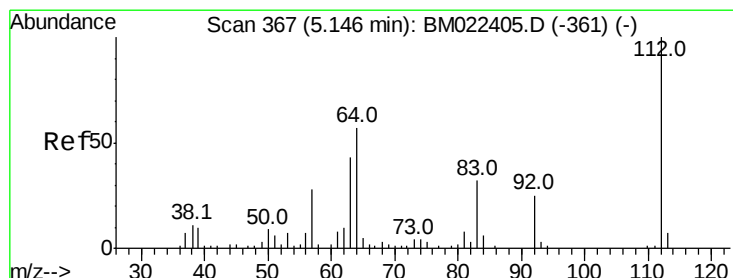
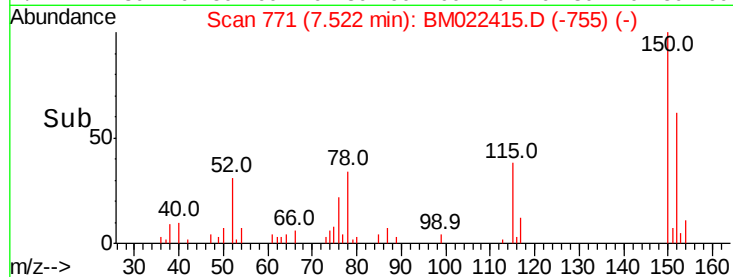
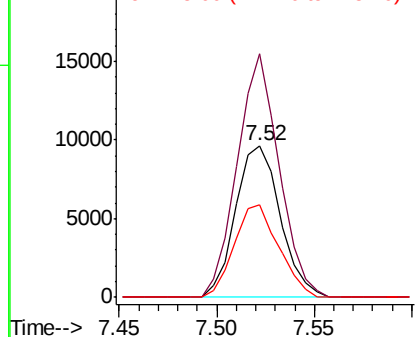


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

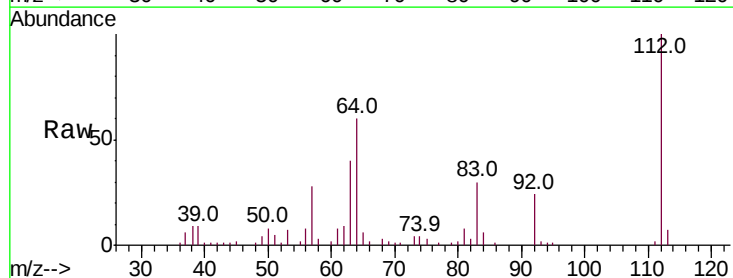
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 92.750 ng
RT: 5.15 min Scan# 367
Delta R.T. -0.00 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.8	45.4	68.2
63	40.0	34.5	51.7

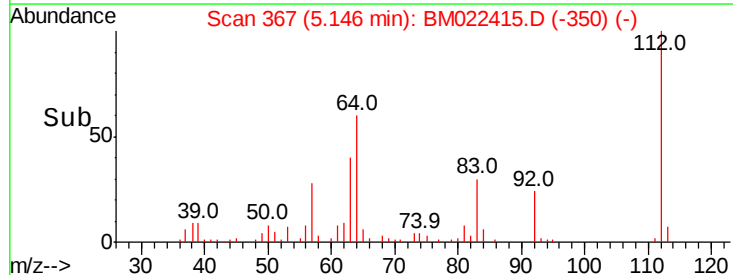
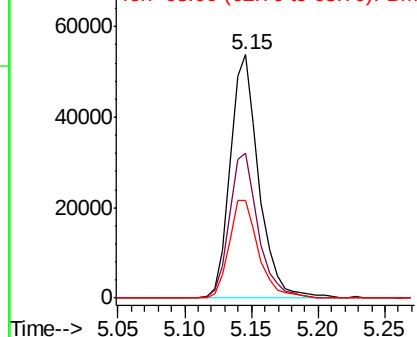


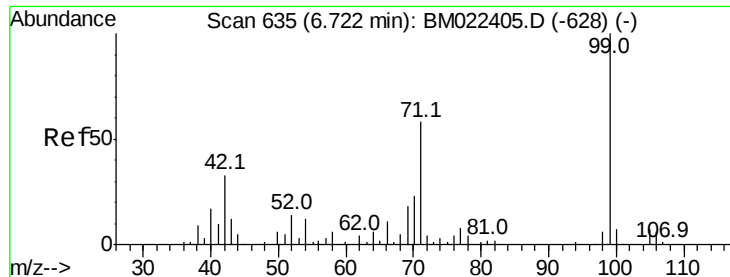
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM

Ion 63.00 (62.70 to 63.70): BM





#7

Phenol-d6

Concen: 90.452 ng

RT: 6.72 min Scan# 635

Delta R.T. -0.00 min

Lab File: BM022415.D

Acq: 29 Aug 2019 19:34

Instrument :

BNA_M

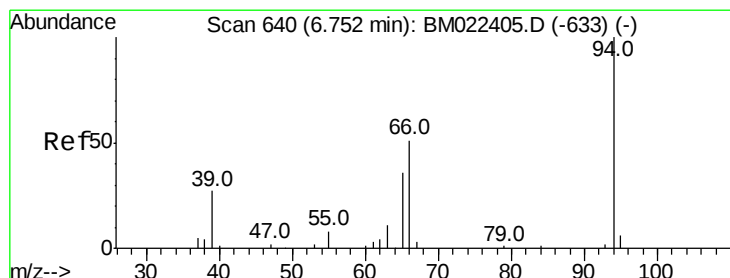
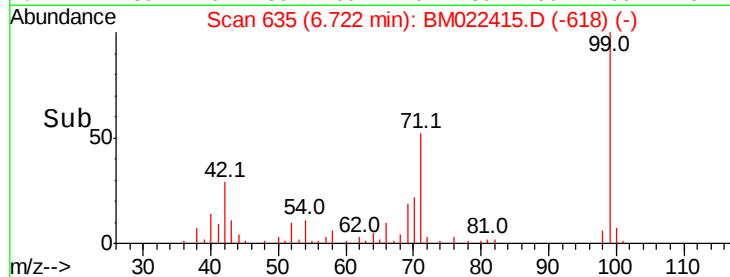
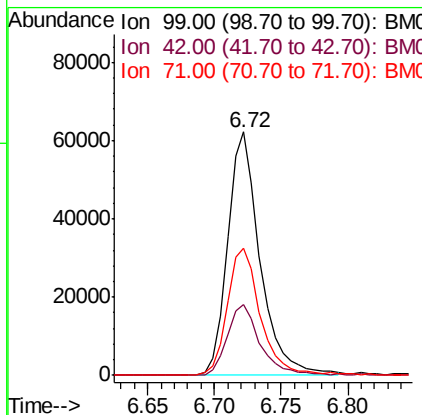
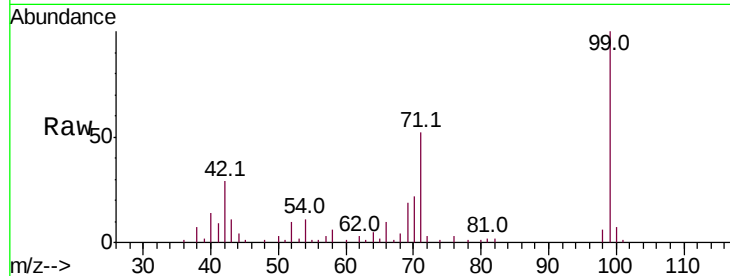
ClientSampleId :

S700B-N-0.0-0.5-082719

Tot Ion	99	Resp	105286
Ion Ratio	Lower	Upper	
99	100		
42	29.1	26.3	39.5
71	52.3	46.6	69.8

Manual Integrations
APPROVED

Jagrut
8/30/2019 10:29:56 AM



#10

Phenol

Concen: 3.909 ng

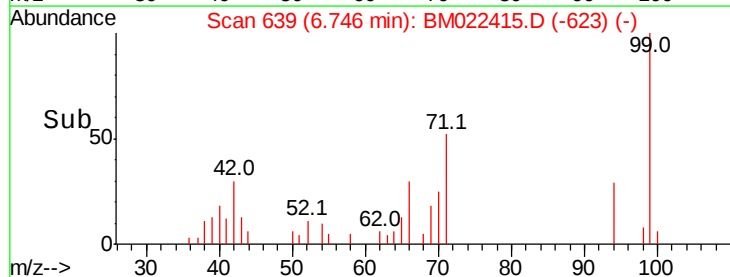
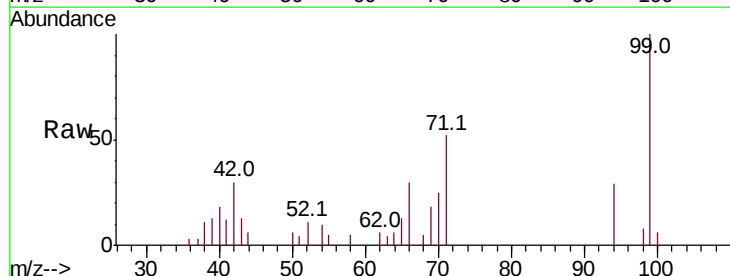
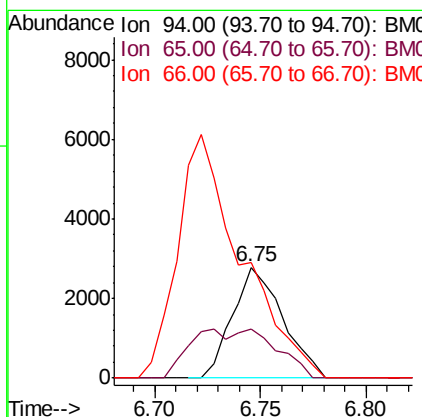
RT: 6.75 min Scan# 639

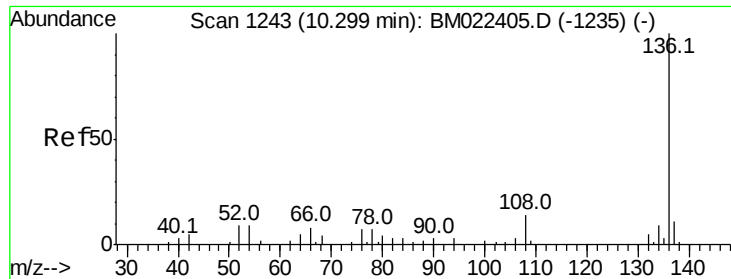
Delta R.T. -0.01 min

Lab File: BM022415.D

Acq: 29 Aug 2019 19:34

Tgt Ion	94	Resp	4571
Ion Ratio	Lower	Upper	
94	100		
65	43.9	17.7	57.7
66	103.7	39.6	79.6#





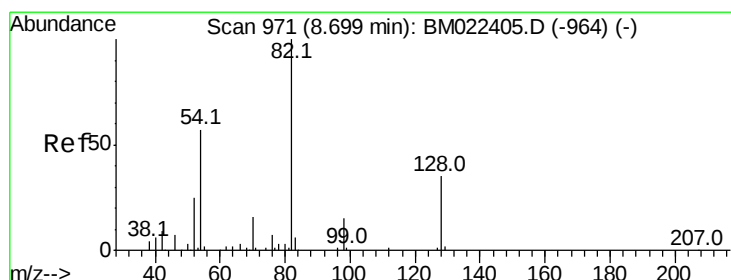
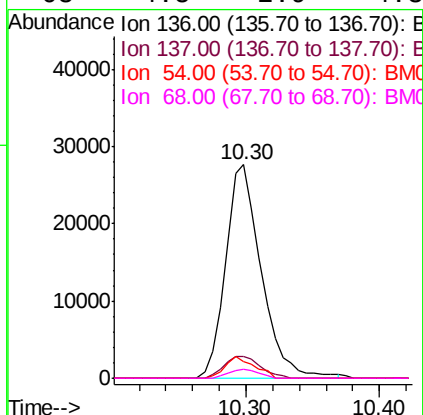
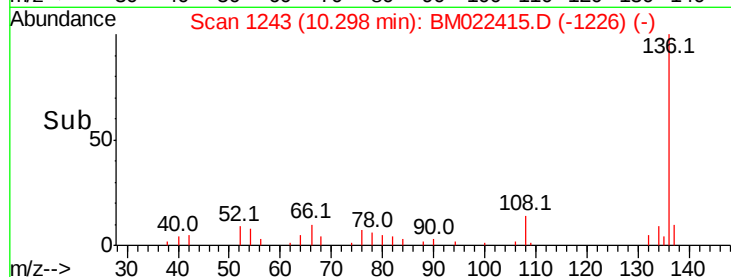
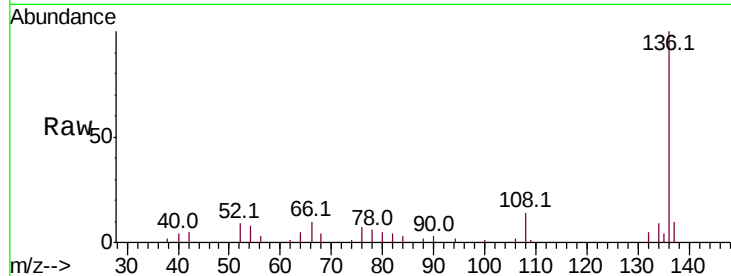
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.30 min Scan# 1243
Delta R.T. -0.00 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Instrument :
BNA_M
ClientSampleId :
S700B-N-0.0-0.5-082719

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.3	8.6	13.0	
54	7.9	7.0	10.6	
68	4.5	2.9	4.3#	

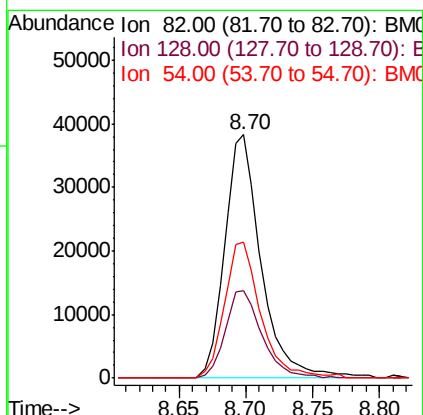
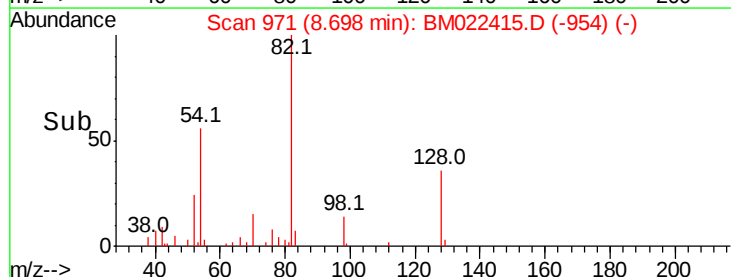
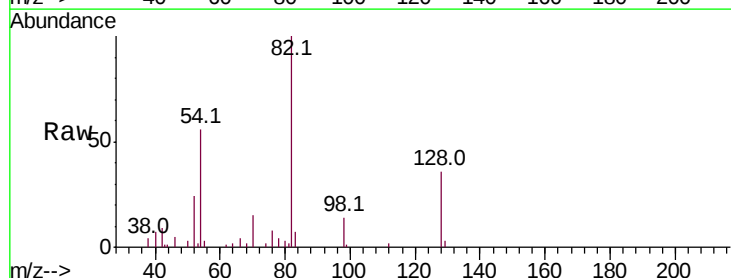
Manual Integrations
APPROVED

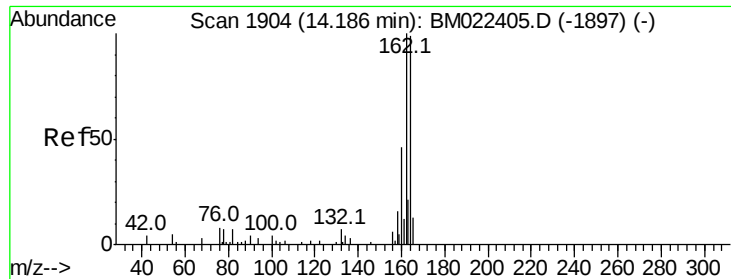
Jagrut
8/30/2019 10:29:56 AM



#23
Nitrobenzene-d5
Concen: 61.778 ng
RT: 8.70 min Scan# 971
Delta R.T. -0.00 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	35.7	27.9	41.9	
54	56.1	45.2	67.8	





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.19 min Scan# 1904

Delta R.T. -0.00 min

Lab File: BM022415.D

Acq: 29 Aug 2019 19:34

Instrument :

BNA_M

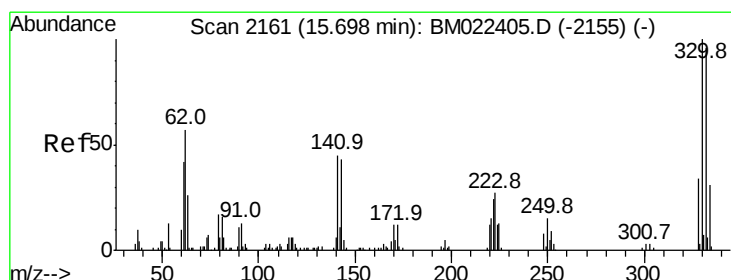
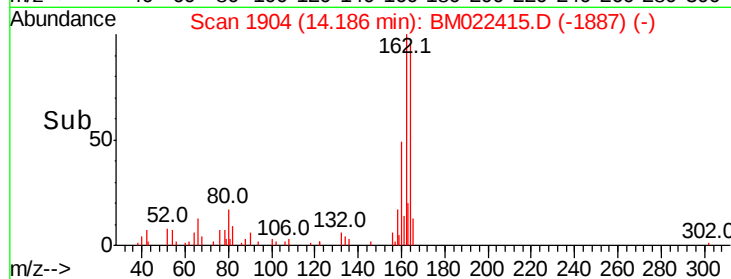
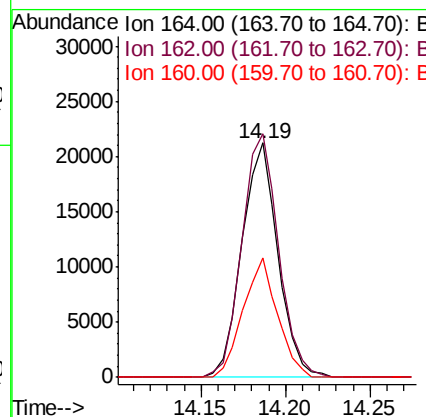
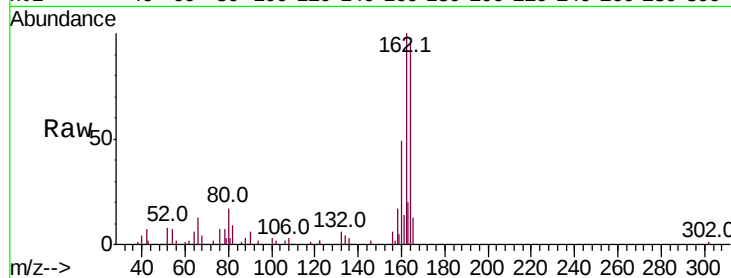
ClientSampleId :

S700B-N-0.0-0.5-082719

Tot Ion:	164	Resp:	31513
Ion	Ratio	Lower	Upper
164	100		
162	103.9	80.6	121.0
160	51.0	37.3	55.9

Manual Integrations
APPROVED

Jagrut
8/30/2019 10:29:56 AM



#42

2,4,6-Tribromophenol

Concen: 85.560 ng

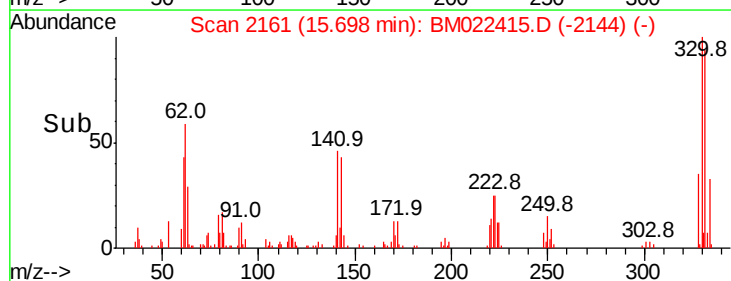
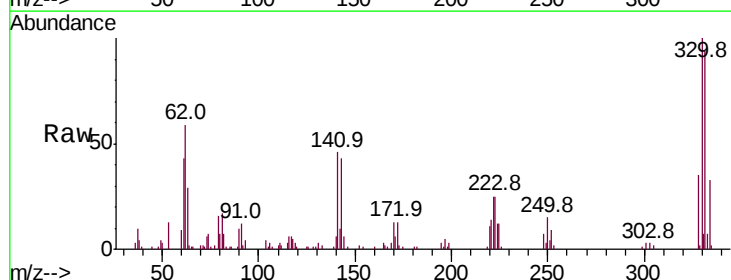
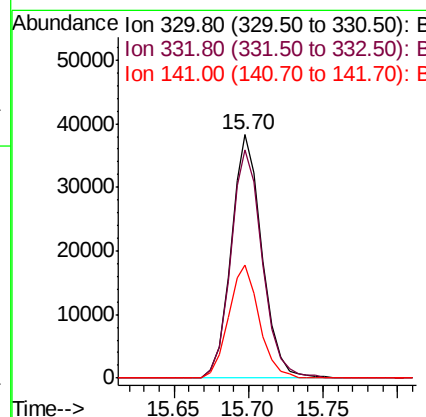
RT: 15.70 min Scan# 2161

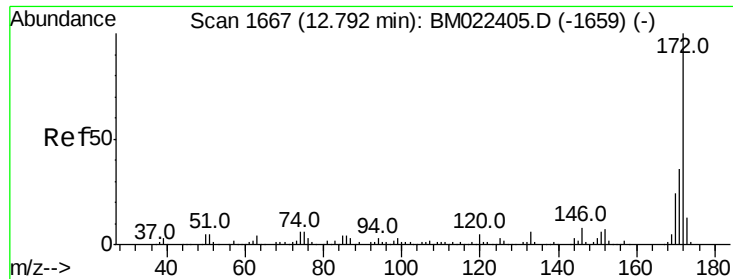
Delta R.T. -0.00 min

Lab File: BM022415.D

Acq: 29 Aug 2019 19:34

Tgt Ion:	330	Resp:	55173
Ion	Ratio	Lower	Upper
330	100		
332	95.9	77.8	116.8
141	46.1	35.6	53.4





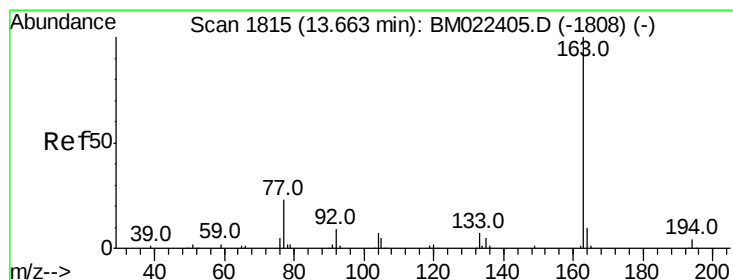
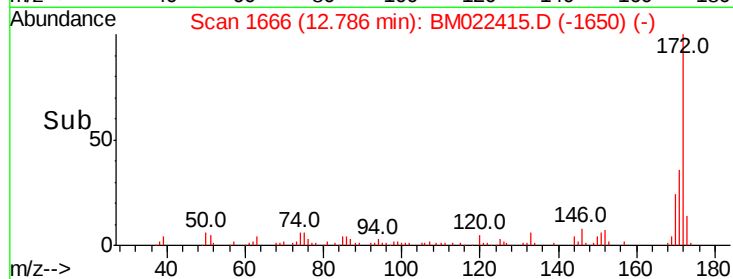
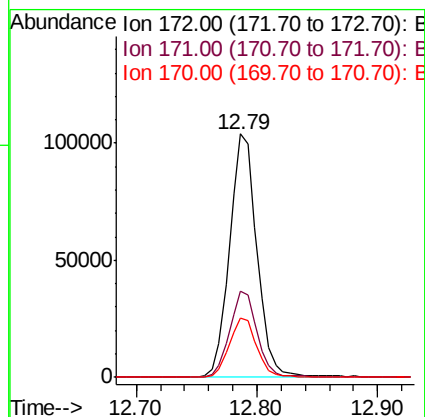
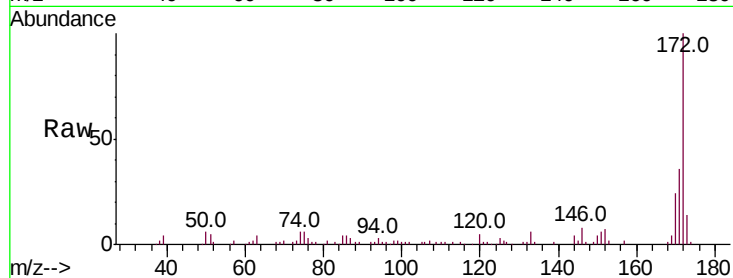
#45
 2-Fluorobiphenyl
 Concen: 59.049 ng
 RT: 12.79 min Scan# 1666
 Delta R.T. -0.01 min
 Lab File: BM022415.D
 Acq: 29 Aug 2019 19:34

Instrument :
 BNA_M
 ClientSampleId :
 S700B-N-0.0-0.5-082719

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.5	42.7
170	24.1	18.9	28.3

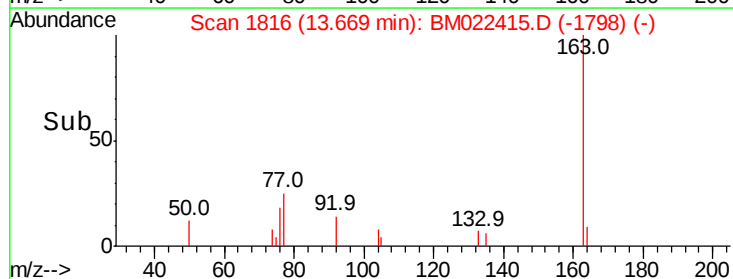
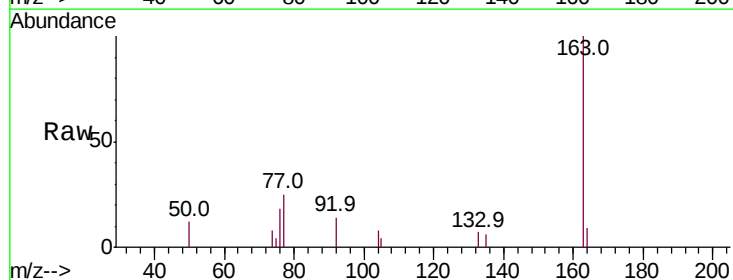
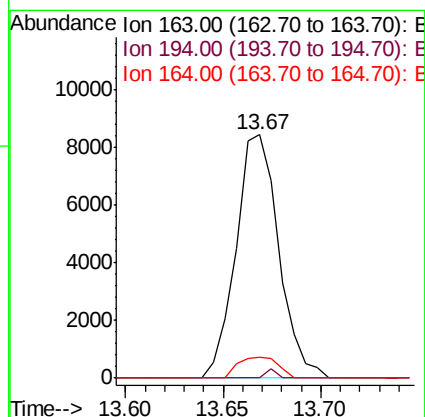
Manual Integrations
 APPROVED

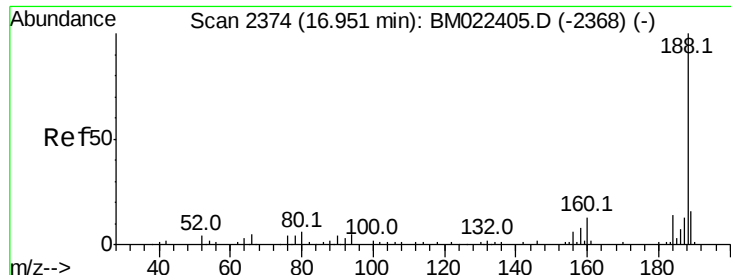
Jagrut
 8/30/2019 10:29:56 AM



#50
 Dimethylphthalate
 Concen: 4.682 ng
 RT: 13.67 min Scan# 1816
 Delta R.T. 0.01 min
 Lab File: BM022415.D
 Acq: 29 Aug 2019 19:34

Tgt Ion	Ratio	Lower	Upper
163	100		
194	0.0	3.4	5.2#
164	8.5	8.2	12.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.95 min Scan# 2374

Delta R.T. -0.00 min

Lab File: BM022415.D

Acq: 29 Aug 2019 19:34

Instrument :

BNA_M

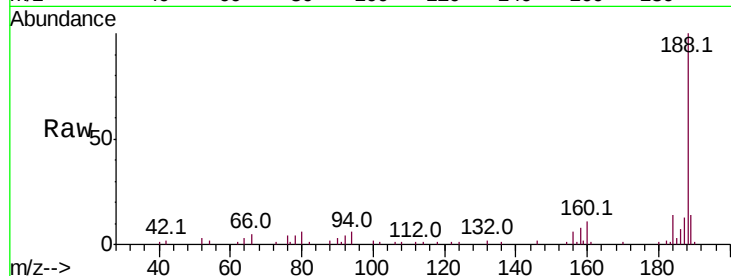
ClientSampleId :

S700B-N-0.0-0.5-082719

Tot Ion:	188	Resp:	74550
Ion Ratio	Lower	Upper	
188	100		
94	6.2	4.4	6.6
80	6.3	5.0	7.6

Manual Integrations
APPROVED

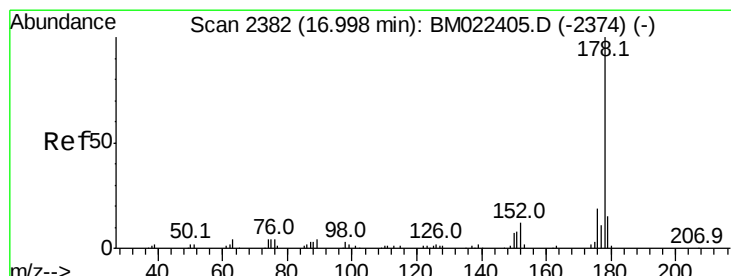
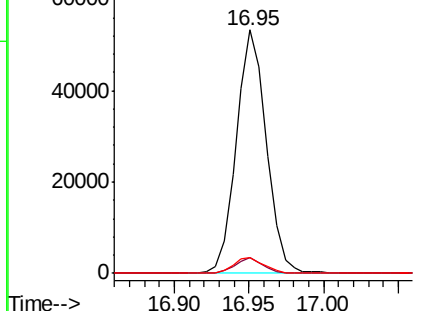
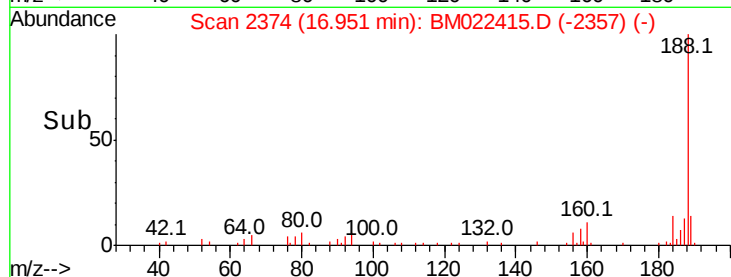
Jagrut
8/30/2019 10:29:56 AM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#71

Phenanthrene

Concen: 12.199 ng

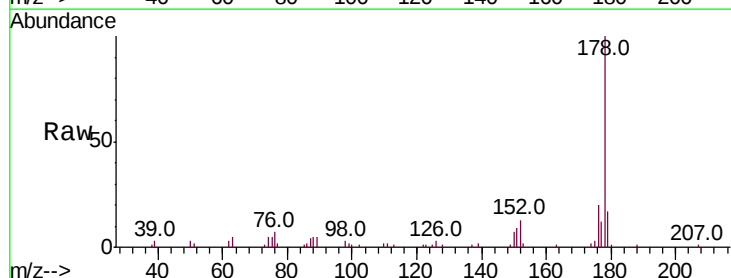
RT: 16.99 min Scan# 2381

Delta R.T. -0.01 min

Lab File: BM022415.D

Acq: 29 Aug 2019 19:34

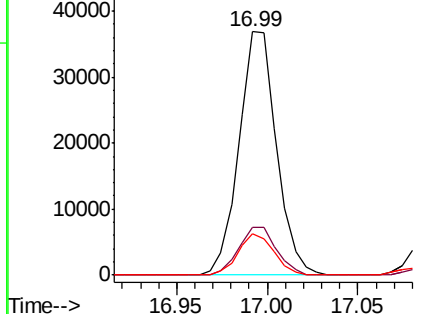
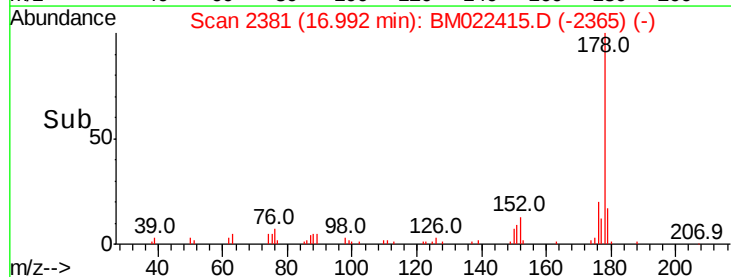
Tgt Ion:	178	Resp:	53009
Ion Ratio	Lower	Upper	
178	100		
176	19.8	15.4	23.2
179	16.8	12.3	18.5

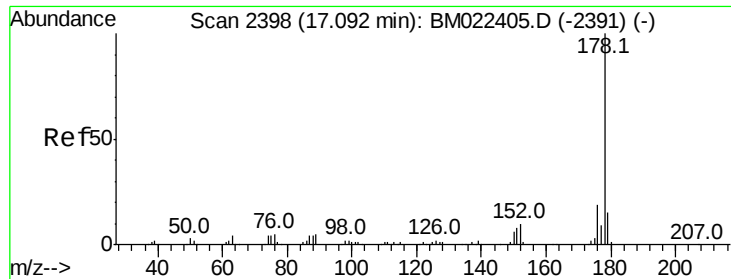


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





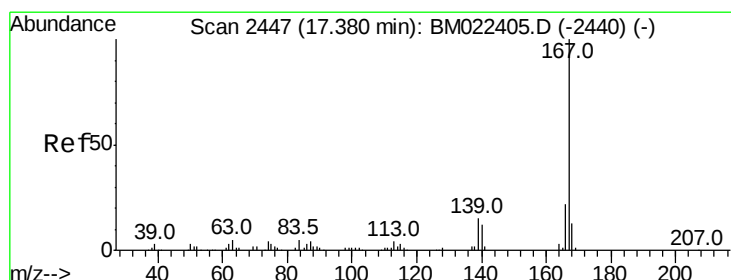
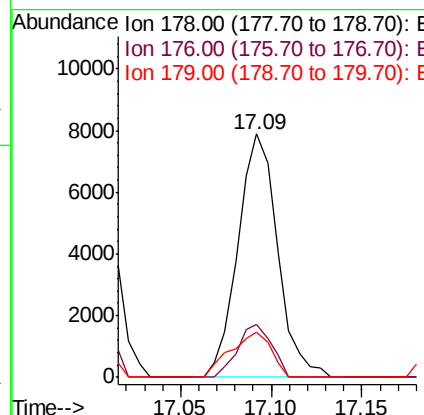
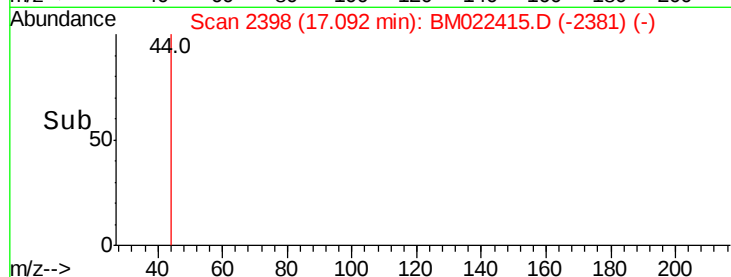
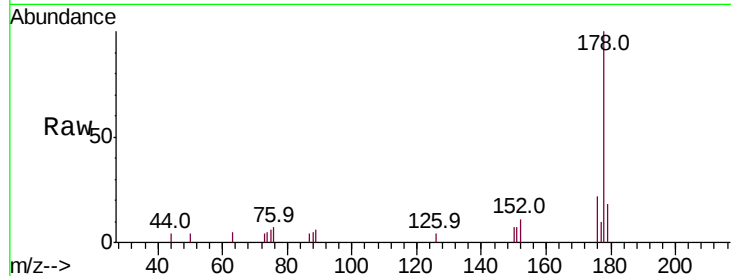
#72
 Anthracene
 Concen: 2.812 ng
 RT: 17.09 min Scan# 2398
 Delta R.T. -0.00 min
 Lab File: BM022415.D
 Acq: 29 Aug 2019 19:34

Instrument :
 BNA_M
 ClientSampleID :
 S700B-N-0.0-0.5-082719

Tot Ion	Ratio	Lower	Upper
178	100		
176	21.9	15.0	22.4
179	18.4	11.8	17.6

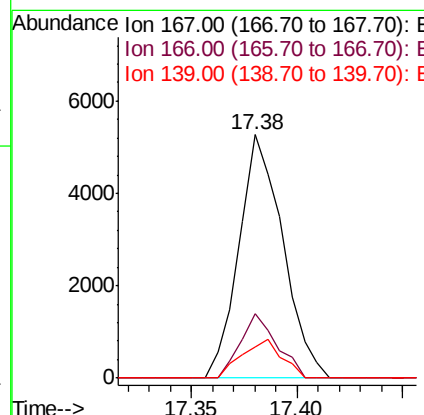
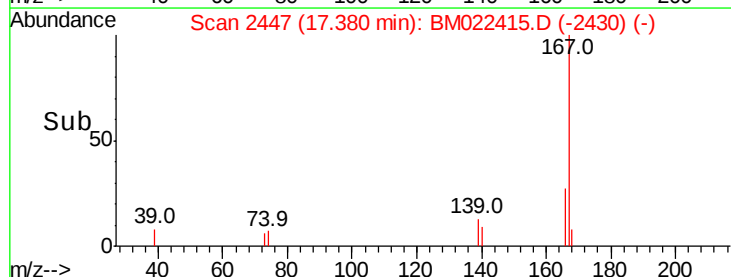
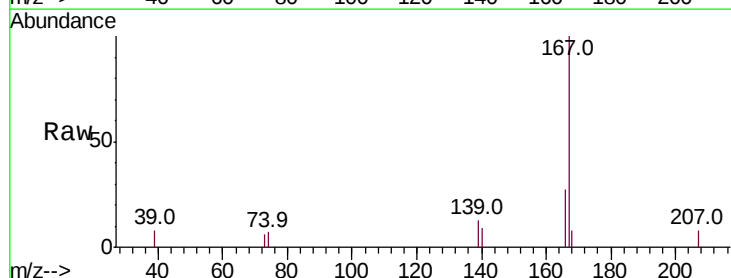
Manual Integrations
 APPROVED

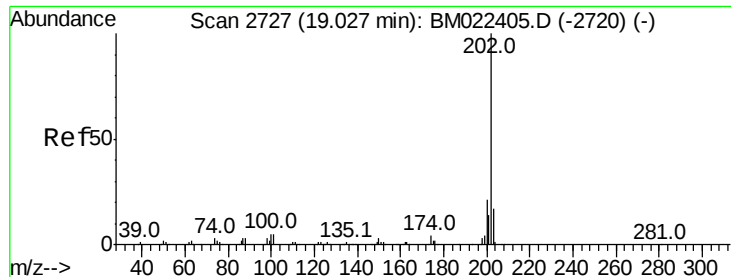
Jagrut
 8/30/2019 10:29:56 AM



#73
 Carbazole
 Concen: 2.145 ng
 RT: 17.38 min Scan# 2447
 Delta R.T. -0.00 min
 Lab File: BM022415.D
 Acq: 29 Aug 2019 19:34

Tgt Ion	Ratio	Lower	Upper
167	100		
166	26.6	17.8	26.6
139	13.0	11.6	17.4





#75

Fluoranthene

Concen: 27.686 ng

RT: 19.02 min Scan# 2726

Delta R.T. -0.01 min

Lab File: BM022415.D

Acq: 29 Aug 2019 19:34

Instrument :

BNA_M

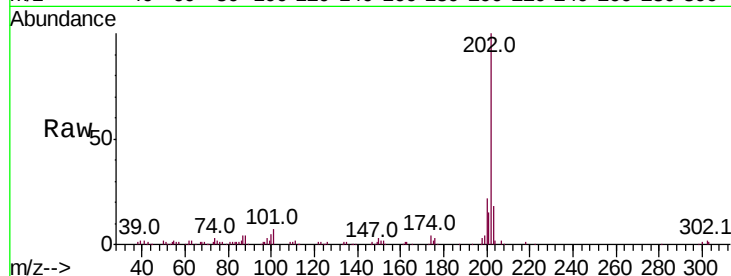
ClientSampleId :

S700B-N-0.0-0.5-082719

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		160217		
101	6.6	0.0	25.1		
203	18.0	0.0	37.1		

Manual Integrations
APPROVED

Jagrut
8/30/2019 10:29:56 AM

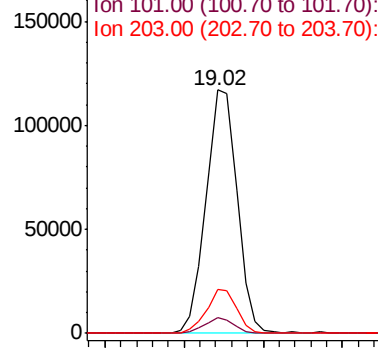


Abundance

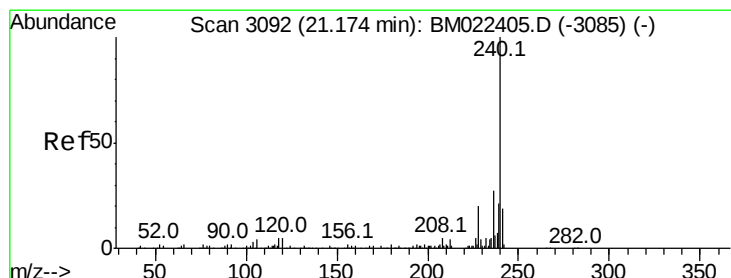
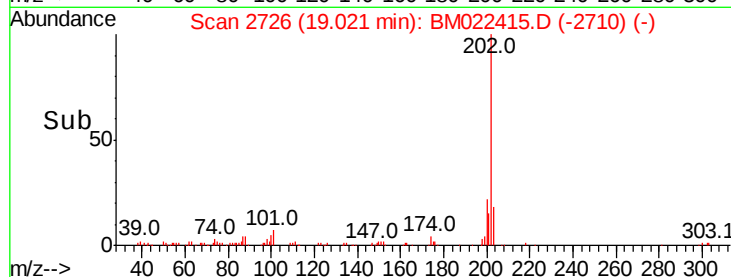
Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#76

Chrysene-d12

Concen: 20.000 ng

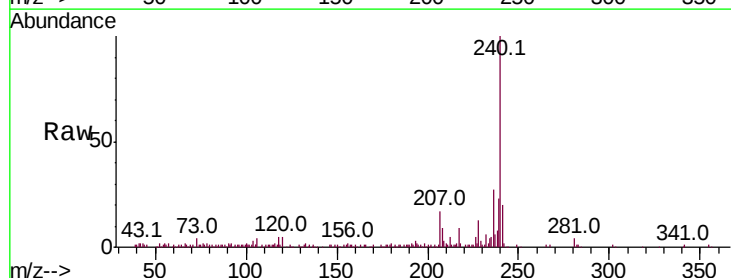
RT: 21.17 min Scan# 3091

Delta R.T. -0.01 min

Lab File: BM022415.D

Acq: 29 Aug 2019 19:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		110213		
120	5.0	3.9	5.9		
236	27.4	21.4	32.2		

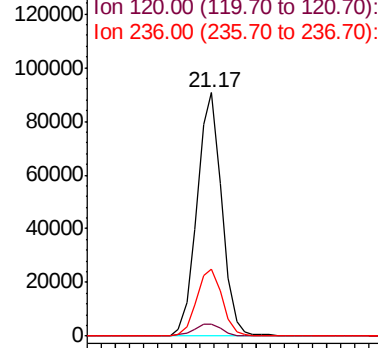


Abundance

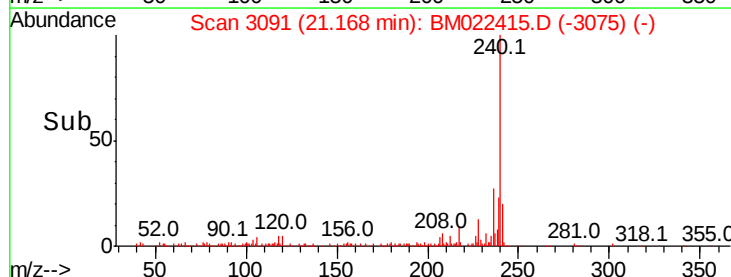
Ion 240.00 (239.70 to 240.70): E

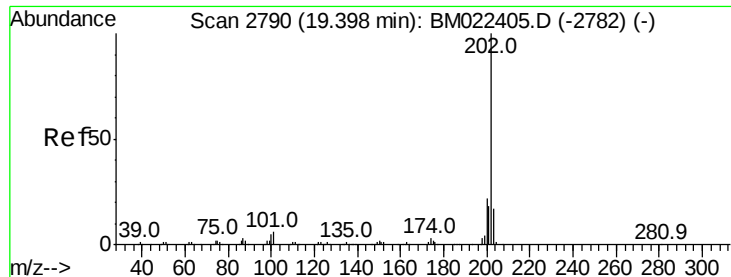
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->





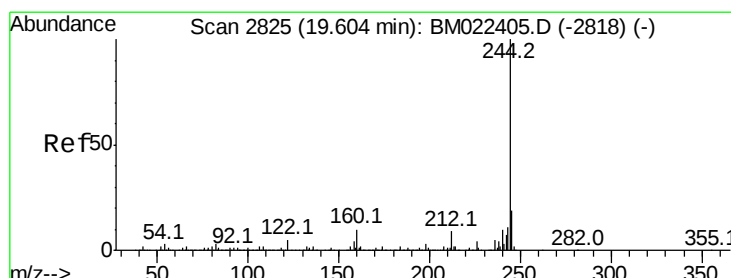
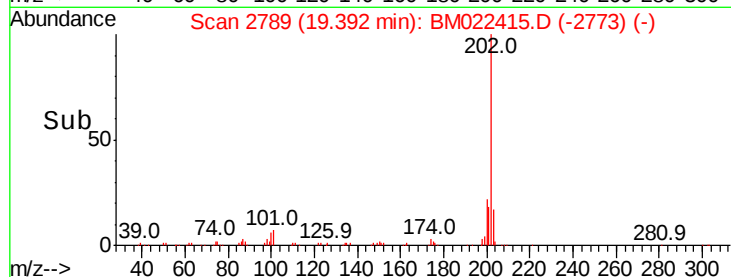
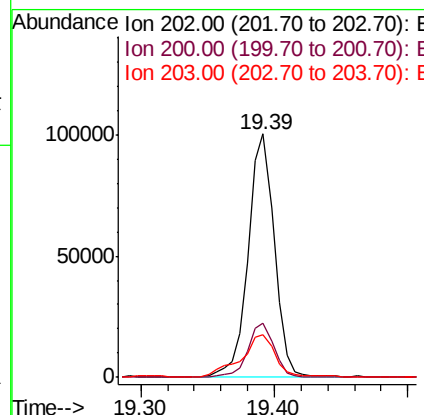
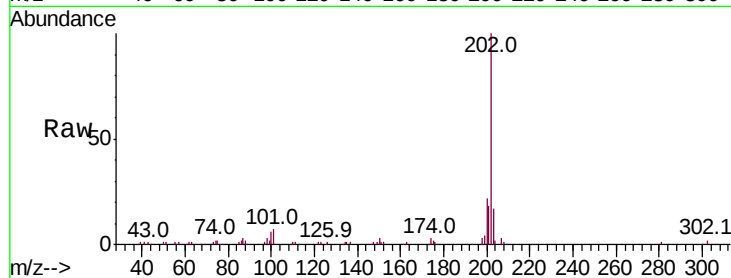
#78
Pvrene
Concen: 18.018 ng
RT: 19.39 min Scan# 2789
Delta R.T. -0.01 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Instrument :
BNA_M
ClientSampleId :
S700B-N-0.0-0.5-082719

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	22.1	17.7	26.5	
203	17.4	13.8	20.8	

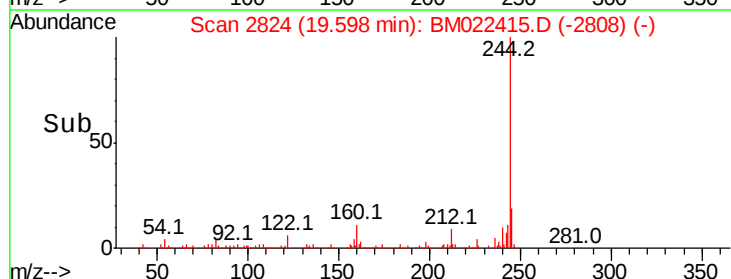
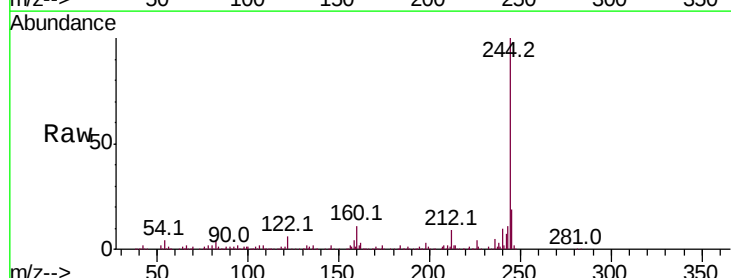
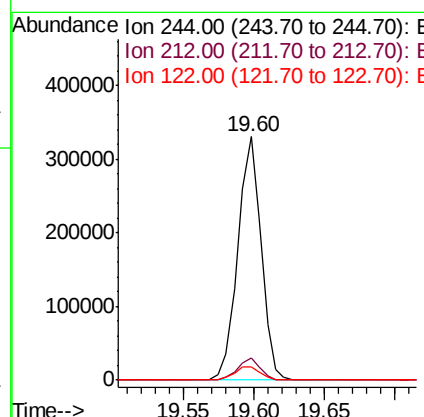
Manual Integrations
APPROVED

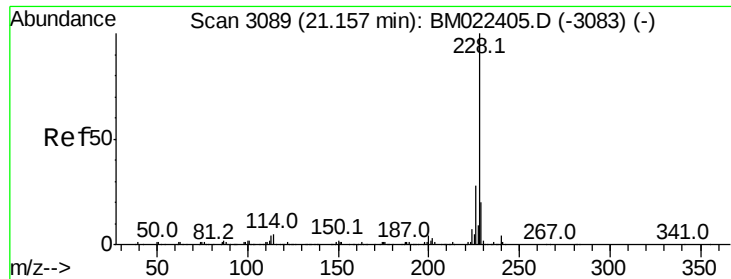
Jagrut
8/30/2019 10:29:56 AM



#79
Terphenyl-d14
Concen: 45.490 ng
RT: 19.60 min Scan# 2824
Delta R.T. -0.01 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	8.9	7.0	10.4	
122	5.6	3.9	5.9	





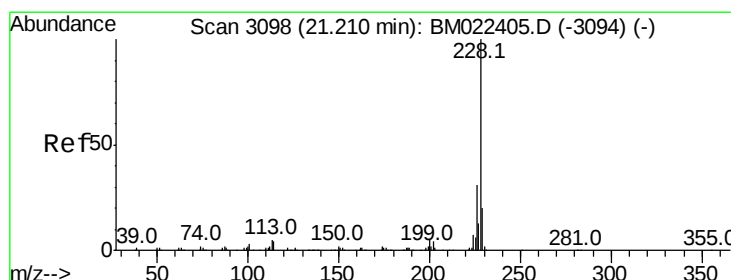
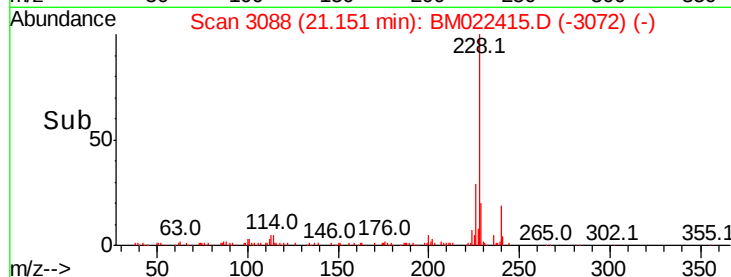
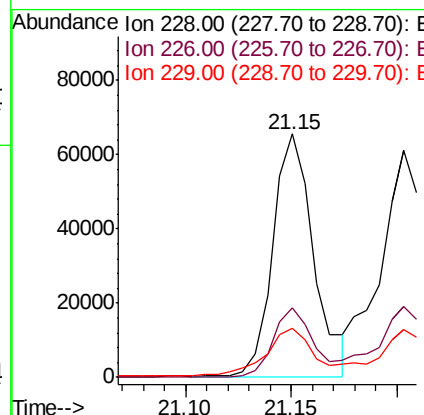
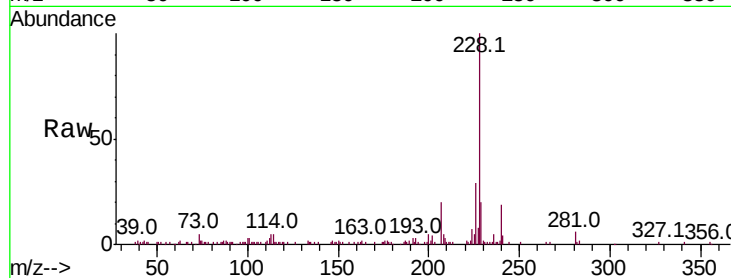
#81
Benzo(a)anthracene
Concen: 11.244 ng
RT: 21.15 min Scan# 3088
Delta R.T. -0.01 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Instrument :
BNA_M
ClientSampleId :
S700B-N-0.0-0.5-082719

Tot Ion:	228	Resp:	88948
Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	34.0
229	20.3	15.9	23.9

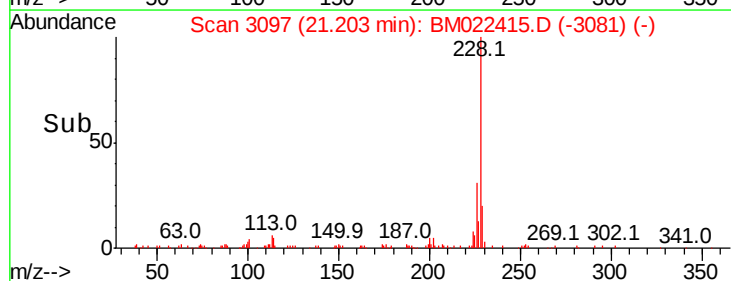
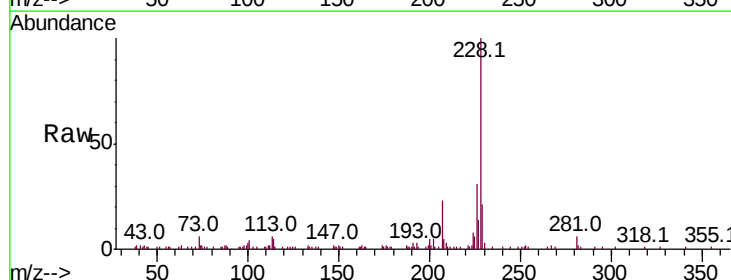
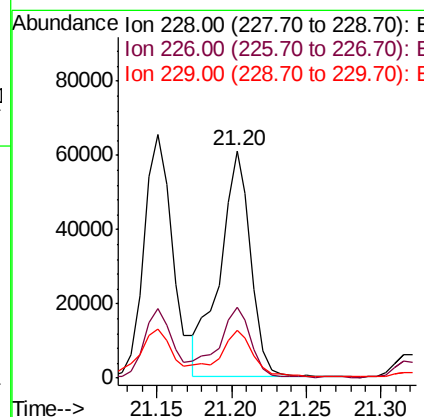
Manual Integrations
APPROVED

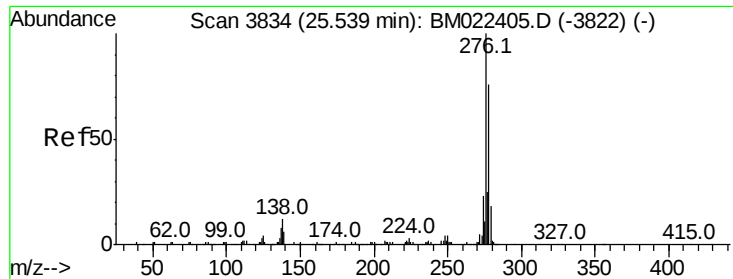
Jagrut
8/30/2019 10:29:56 AM



#83
Chrysene
Concen: 11.767 ng
RT: 21.20 min Scan# 3097
Delta R.T. -0.01 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Tgt Ion:	228	Resp:	88600
Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7
229	20.8	15.7	23.5





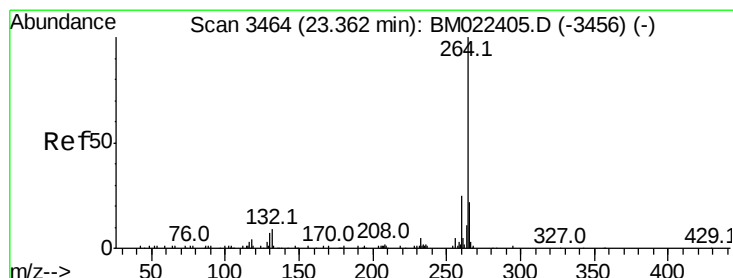
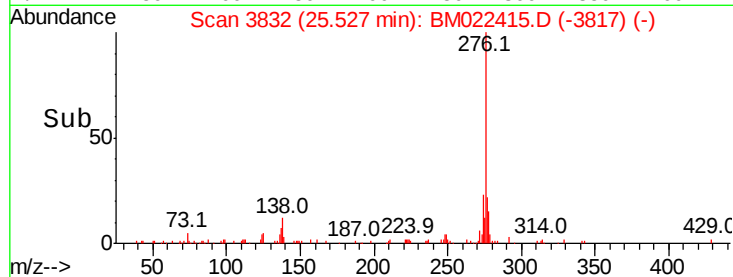
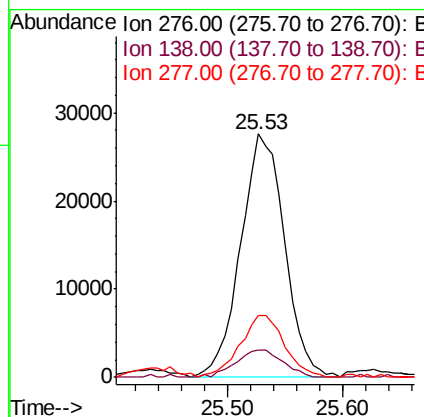
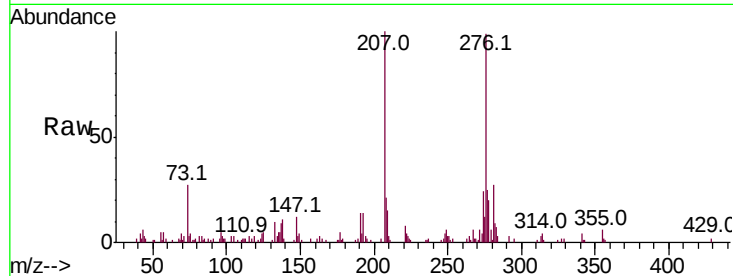
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 9.644 ng
 RT: 25.53 min Scan# 3832
 Delta R.T. -0.01 min
 Lab File: BM022415.D
 Acq: 29 Aug 2019 19:34

Instrument :
 BNA_M
 ClientSampleId :
 S700B-N-0.0-0.5-082719

Tot Ion:	276	Resp:	73044
Ion Ratio	Lower	Upper	
276	100		
138	12.1	9.1	13.7
277	25.9	20.0	30.0

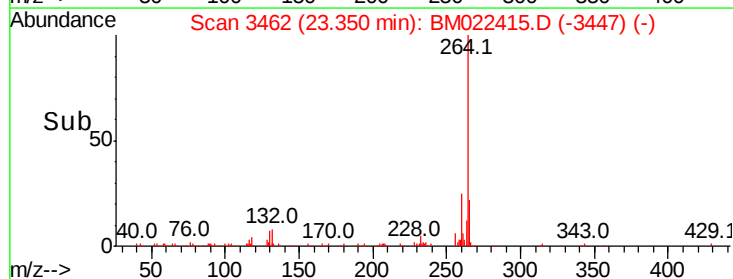
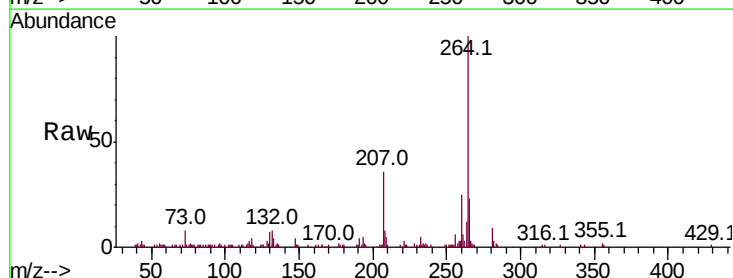
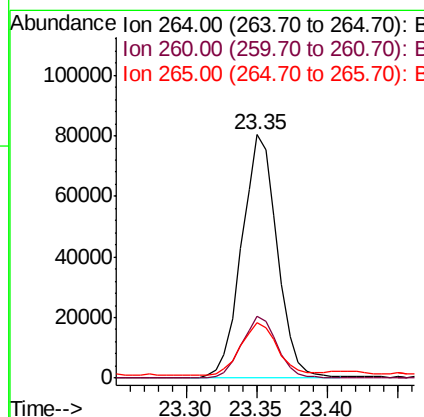
Manual Integrations
 APPROVED

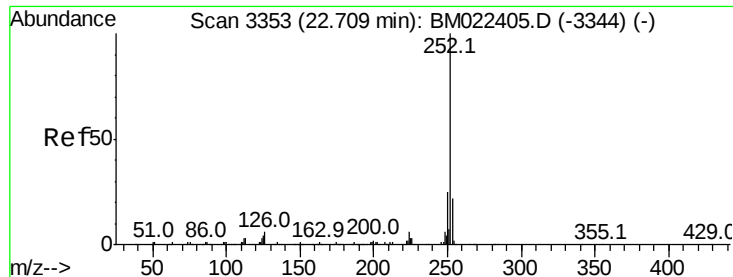
Jagrut
 8/30/2019 10:29:56 AM



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.35 min Scan# 3462
 Delta R.T. -0.01 min
 Lab File: BM022415.D
 Acq: 29 Aug 2019 19:34

Tgt Ion:	264	Resp:	141518
Ion Ratio	Lower	Upper	
264	100		
260	25.2	20.2	30.2
265	22.9	18.2	27.2





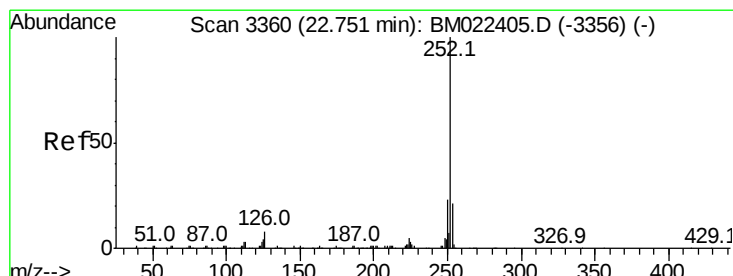
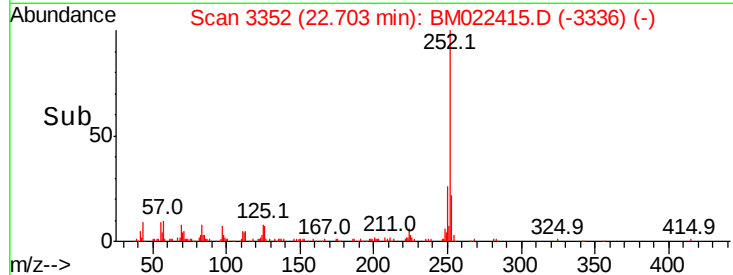
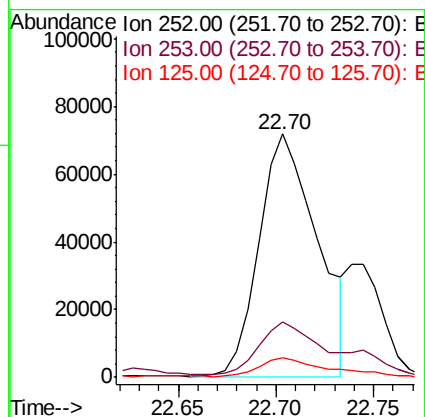
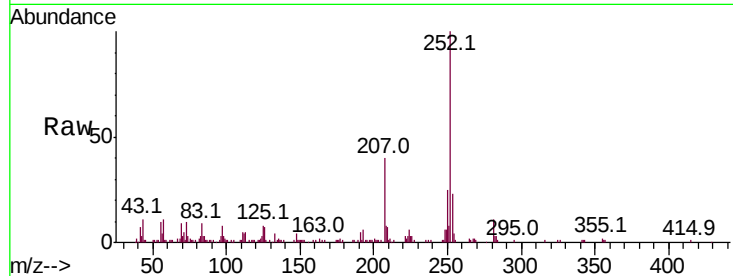
#88
Benzo(b)fluoranthene
Concen: 15.074 ng
RT: 22.70 min Scan# 3352
Delta R.T. -0.01 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Instrument :
BNA_M
ClientSampleId :
S700B-N-0.0-0.5-082719

Tot Ion	Ratio	Resp	Lower	Upper
252	100	148197		
253	23.0		17.9	26.9
125	7.8		3.5	5.3#

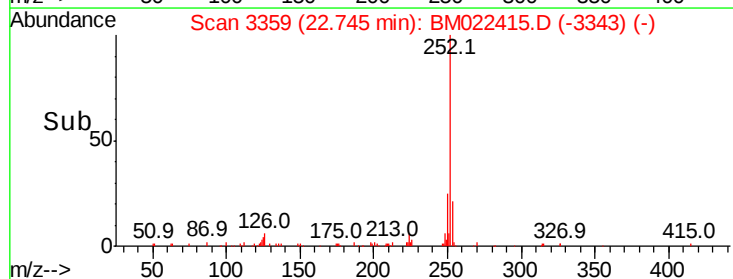
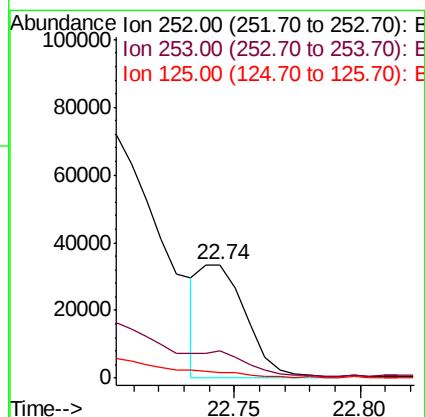
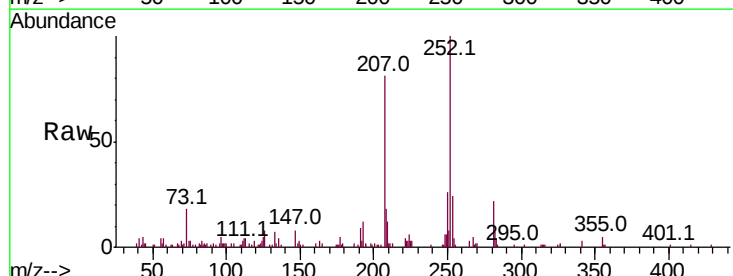
Manual Integrations
APPROVED

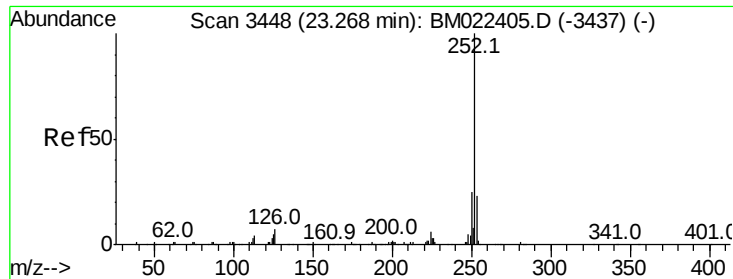
Jagrut
8/30/2019 10:29:56 AM



#89
Benzo(k)fluoranthene
Concen: 4.366 ng m
RT: 22.74 min Scan# 3359
Delta R.T. -0.01 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	42579		
253	24.1		17.0	25.4
125	5.2		3.7	5.5





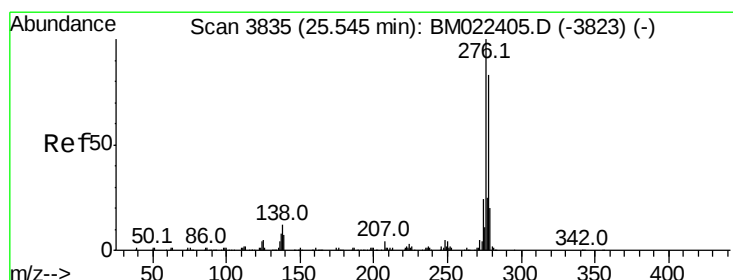
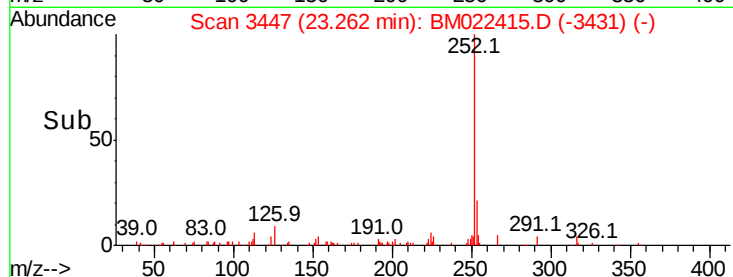
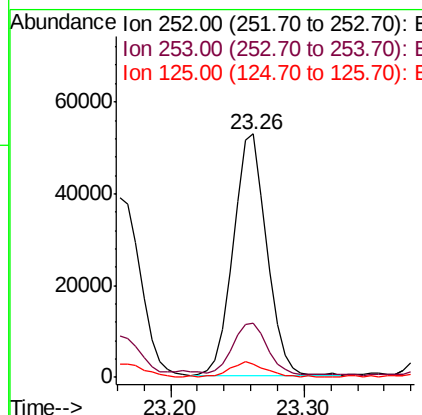
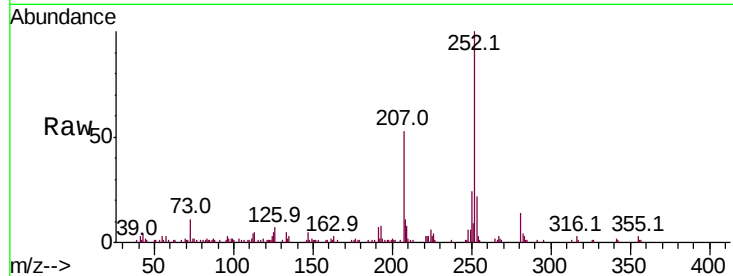
#90
Benzo(a)pyrene
Concen: 10.457 ng
RT: 23.26 min Scan# 3447
Delta R.T. -0.01 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Instrument :
BNA_M
ClientSampleId :
S700B-N-0.0-0.5-082719

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.1	18.2	27.2
125	5.5	3.8	5.8

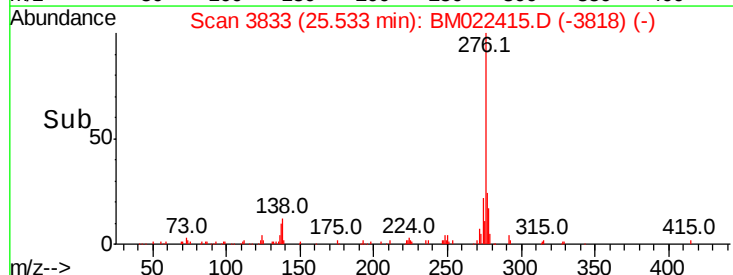
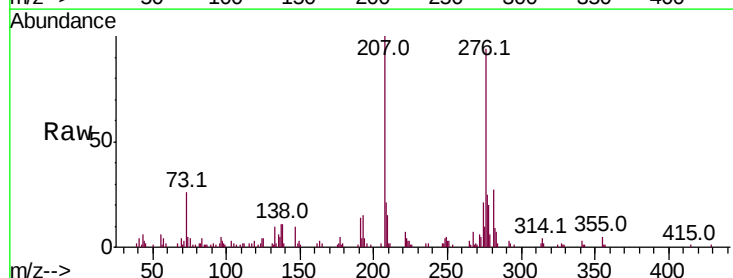
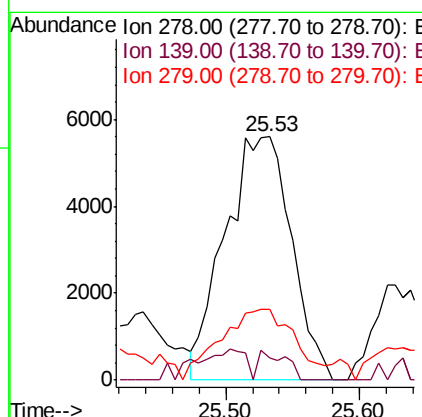
Manual Integrations
APPROVED

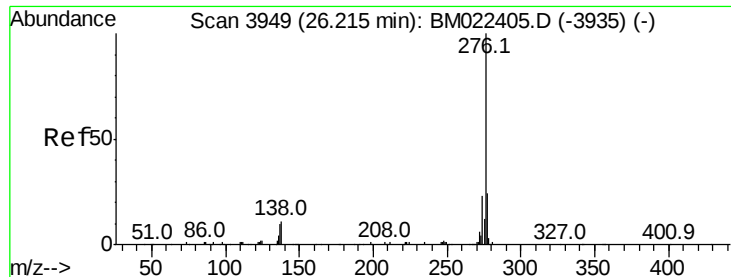
Jagrut
8/30/2019 10:29:56 AM



#91
Dibenzo(a,h)anthracene
Concen: 2.230 ng
RT: 25.53 min Scan# 3833
Delta R.T. -0.01 min
Lab File: BM022415.D
Acq: 29 Aug 2019 19:34

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	8.9	6.6	9.8
279	29.3	19.3	28.9





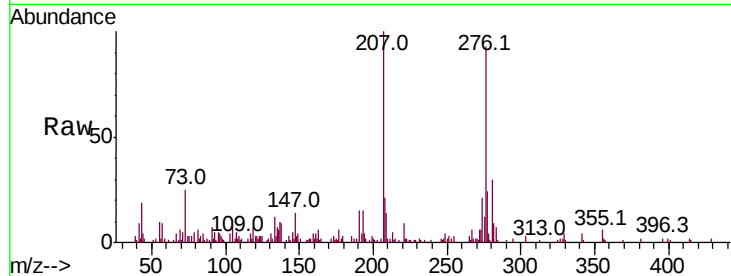
#92
 Benzo(a,h,i)perylene
 Concen: 9.786 ng
 RT: 26.20 min Scan# 3947
 Delta R.T. -0.01 min
 Lab File: BM022415.D
 Acq: 29 Aug 2019 19:34

Instrument :
 BNA_M
 ClientSampleId :
 S700B-N-0.0-0.5-082719

Tot Ion:	276	Resp:	74216
Ion Ratio	Lower	Upper	
276	100		
277	25.4	19.4	29.0
138	9.4	8.8	13.2

Manual Integrations
 APPROVED

Jagrut
 8/30/2019 10:29:56 AM



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

