

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050619\
 Data File : BM020143.D
 Acq On : 06 May 2019 19:38
 Operator : JU/SJ
 Sample : K2673-16
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SP-02-COMP

Manual Integrations
 APPROVED

mohammad
 5/7/2019 3:11:43 PM

Quant Time: May 07 05:15:53 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 03:58:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	141868	20.00	ng	0.00
21) Naphthalene-d8	10.59	136	513641	20.00	ng	0.00
39) Acenaphthene-d10	14.43	164	310187	20.00	ng	0.00
64) Phenanthrene-d10	17.18	188	733393	20.00	ng	0.00
76) Chrysene-d12	21.37	240	717664	20.00	ng	0.00
87) Perylene-d12	23.66	264	834221	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	1079365	124.36	ng	0.00
7) Phenol-d6	6.96	99	1536595	129.60	ng	0.00
23) Nitrobenzene-d5	8.96	82	1066057	81.94	ng	0.00
42) 2,4,6-Tribromophenol	15.93	330	662640	137.63	ng	0.00
45) 2-Fluorobiphenyl	13.05	172	1899811	75.36	ng	0.00
79) Terphenyl-d14	19.81	244	2876653	69.91	ng	0.00
Target Compounds						
49) Acenaphthylene	14.16	152	156733	4.804	ng	Qvalue 98
50) Dimethylphthalate	13.89	163	423030	16.046	ng	99
71) Phenanthrene	17.22	178	140030	3.459	ng	99
72) Anthracene	17.32	178	133317	3.294	ng	98
75) Fluoranthene	19.24	202	548110	10.701	ng	99
78) Pyrene	19.60	202	573796	11.909	ng	99
81) Benzo(a)anthracene	21.35	228	411264	8.171	ng	95
83) Chrysene	21.40	228	371669	7.614	ng	96
86) Indeno(1,2,3-cd)pyrene	26.00	276	423905	7.301	ng	# 100
88) Benzo(b)fluoranthene	22.97	252	708045m	12.853	ng	
89) Benzo(k)fluoranthene	23.01	252	244613m	4.868	ng	
90) Benzo(a)pyrene	23.56	252	504667	10.086	ng	# 93
91) Dibenzo(a,h)anthracene	26.01	278	110014	2.114	ng	# 73
92) Benzo(g,h,i)perylene	26.72	276	443792	8.983	ng	98

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

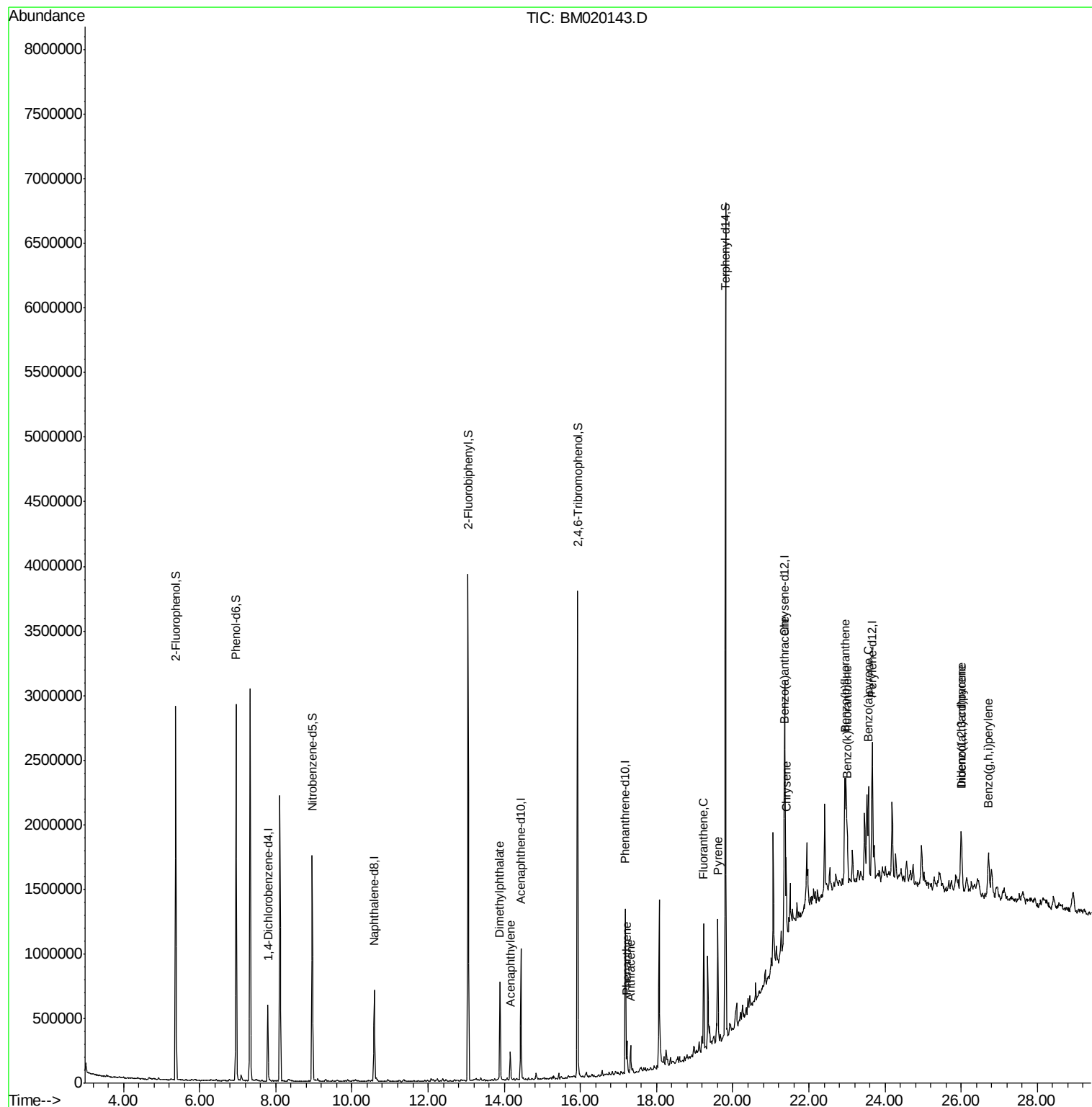
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050619\
Data File : BM020143.D
Acq On : 06 May 2019 19:38
Operator : JU/SJ
Sample : K2673-16
Misc :
ALS Vial : 14 Sample Multiplier: 1

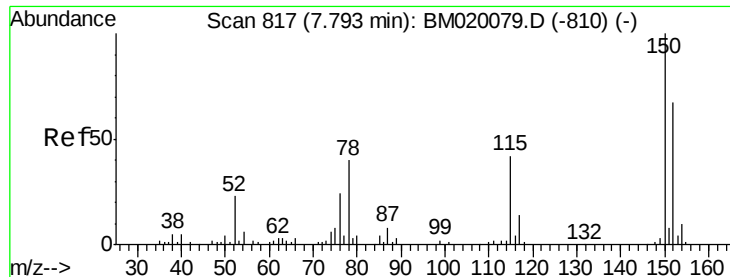
Instrument :
BNA_M
ClientSampled :
SP-02-COMP

Manual Integrations
APPROVED

mohammad
5/7/2019 3:11:43 PM

Quant Time: May 07 05:15:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 01 03:58:37 2019
Response via : Initial Calibration





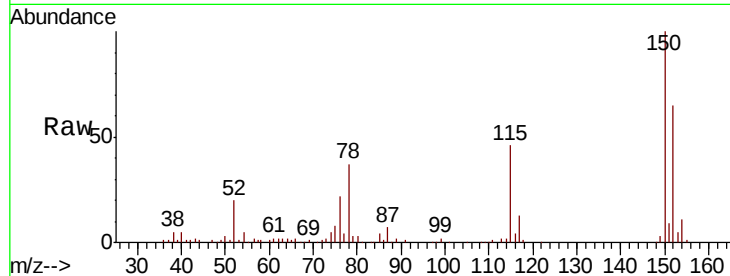
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.79 min Scan# 817
 Delta R.T. -0.00 min
 Lab File: BM020143.D
 Acq: 06 May 2019 19:38

Instrument :
 BNA_M
 ClientSampleId :
 SP-02-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.0	119.8	179.8
115	70.9	50.8	76.2

Manual Integrations
 APPROVED

mohammad
 5/7/2019 3:11:43 PM

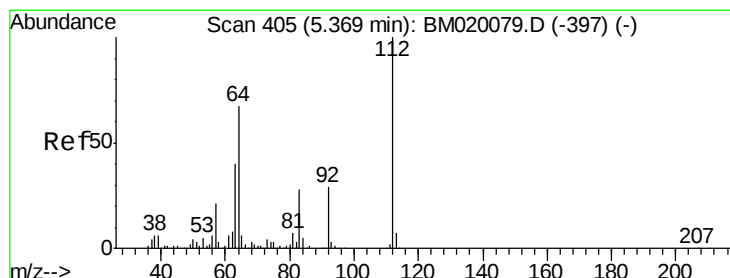
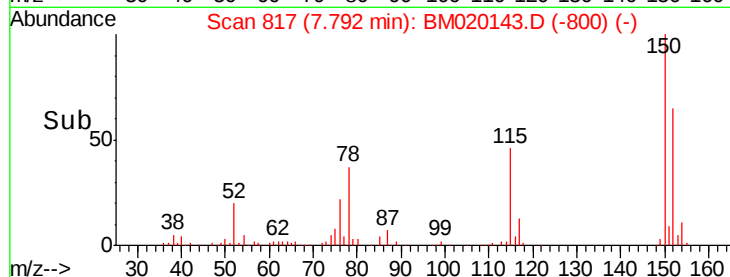
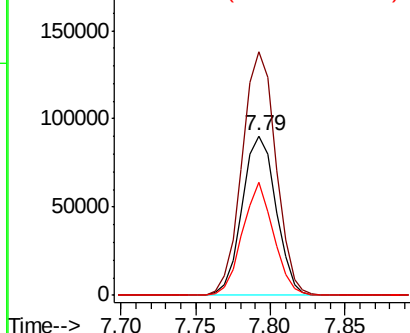


Abundance

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: 124.364 ng
 RT: 5.37 min Scan# 406
 Delta R.T. 0.01 min
 Lab File: BM020143.D
 Acq: 06 May 2019 19:38

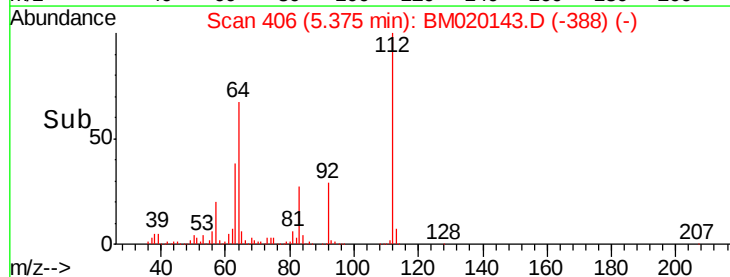
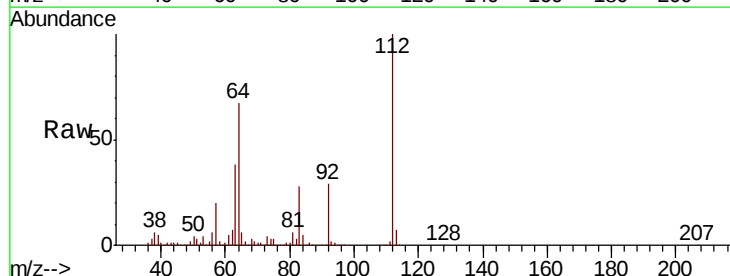
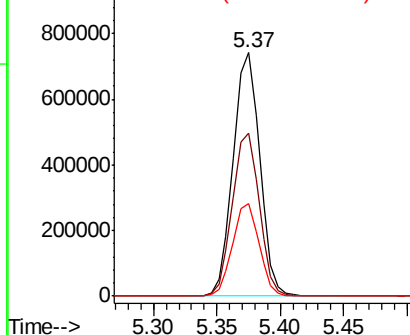
Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.2	53.8	80.6
63	38.1	32.3	48.5

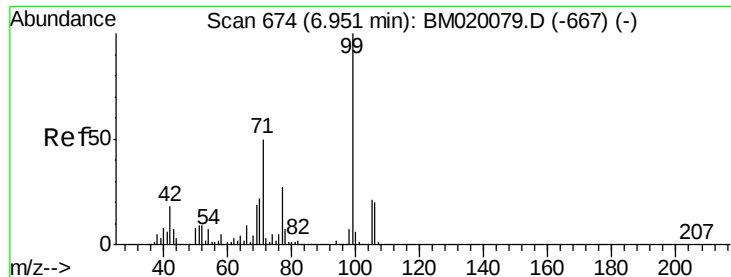
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 129.595 ng

RT: 6.96 min Scan# 675

Delta R.T. 0.01 min

Lab File: BM020143.D

Acq: 06 May 2019 19:38

Instrument :

BNA_M

ClientSampleId :

SP-02-COMP

Tot Ion: 99 Resp: 1536595

Ion Ratio Lower Upper

99 100

42 15.3 14.2 21.2

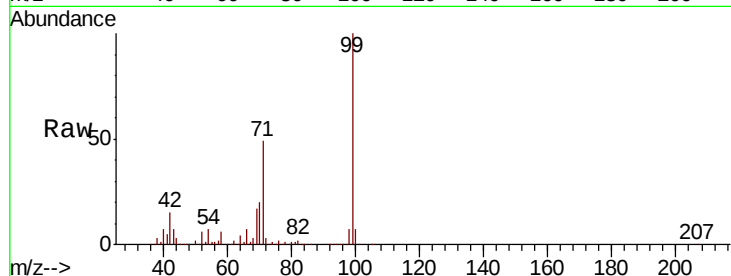
71 49.3 40.3 60.5

Manual Integrations

APPROVED

mohammad

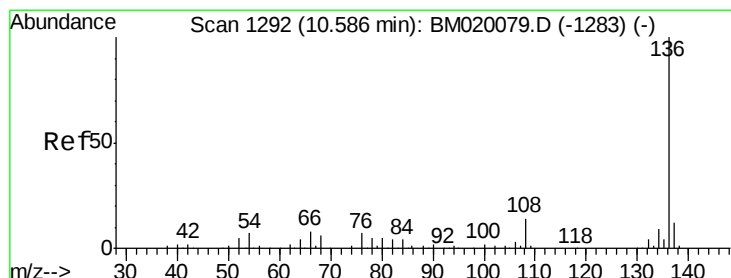
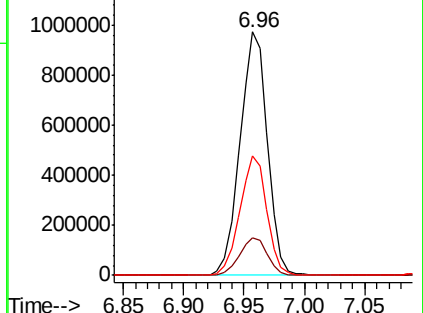
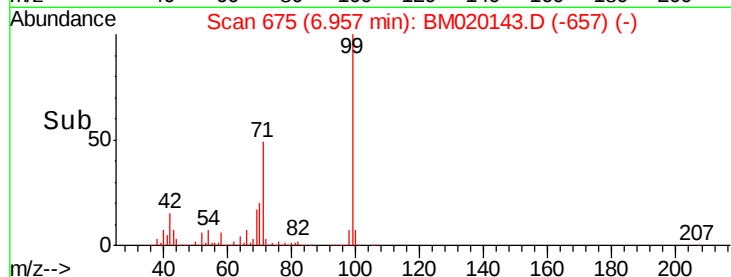
5/7/2019 3:11:43 PM



Abundance Ion 99.00 (98.70 to 99.70): BM020143.D (-657) (-)

Ion 42.00 (41.70 to 42.70): BM020143.D (-657) (-)

Ion 71.00 (70.70 to 71.70): BM020143.D (-657) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.59 min Scan# 1292

Delta R.T. -0.00 min

Lab File: BM020143.D

Acq: 06 May 2019 19:38

Tgt Ion: 136 Resp: 513641

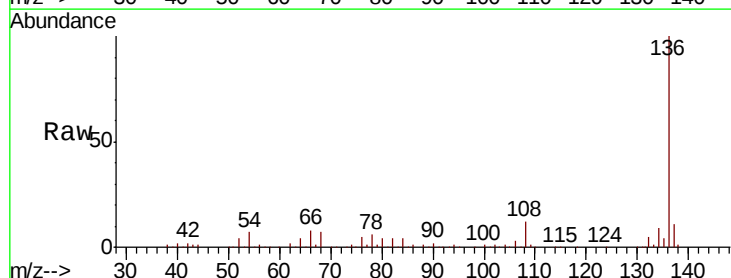
Ion Ratio Lower Upper

136 100

137 10.8 9.6 14.4

54 6.5 5.5 8.3

68 6.5 4.6 6.8

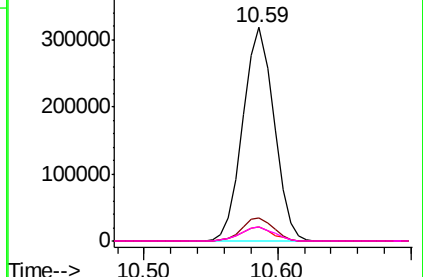
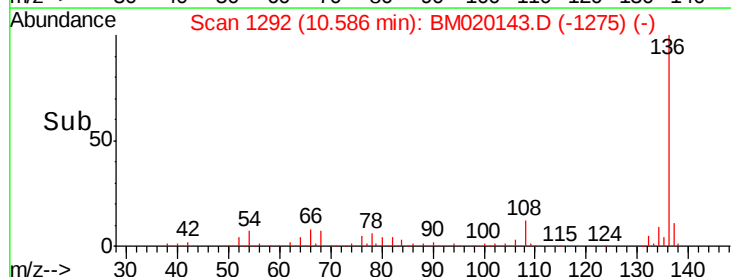


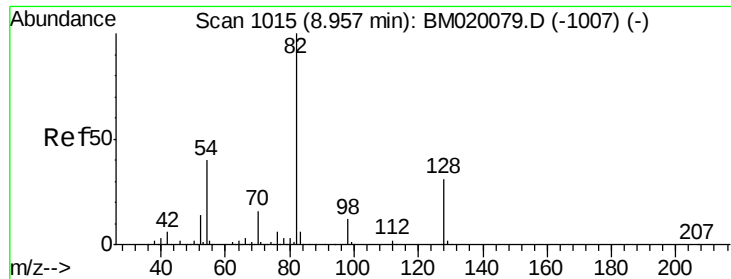
Abundance Ion 136.00 (135.70 to 136.70): BM020143.D (-1275) (-)

Ion 137.00 (136.70 to 137.70): BM020143.D (-1275) (-)

Ion 54.00 (53.70 to 54.70): BM020143.D (-1275) (-)

Ion 68.00 (67.70 to 68.70): BM020143.D (-1275) (-)





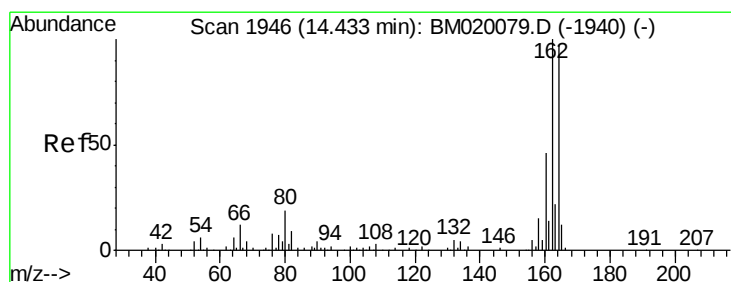
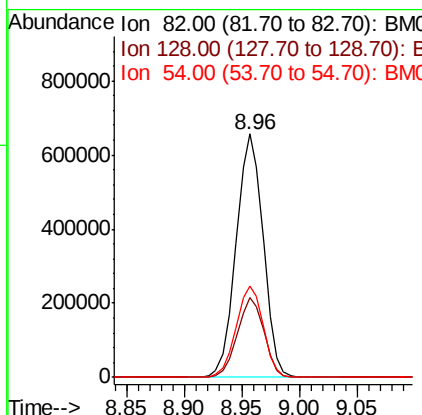
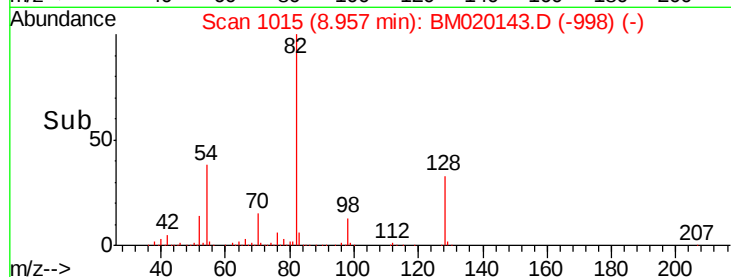
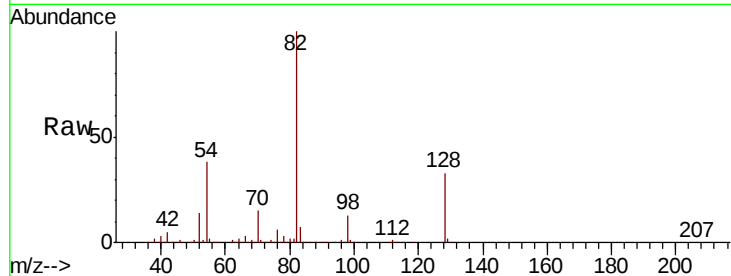
#23
Nitrobenzene-d5
Concen: 81.941 ng
RT: 8.96 min Scan# 1015
Delta R.T. -0.00 min
Lab File: BM020143.D
Acq: 06 May 2019 19:38

Instrument :
BNA_M
ClientSampleId :
SP-02-COMP

Tot Ion	Ratio	Lower	Upper
82	100		
128	32.8	25.2	37.8
54	37.7	31.9	47.9

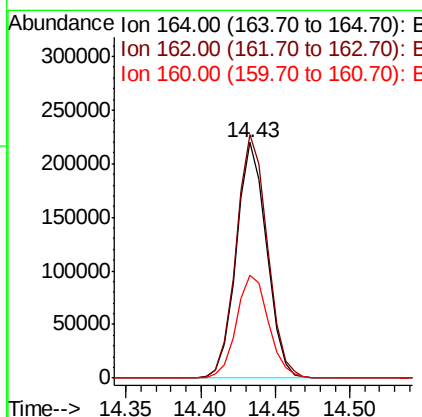
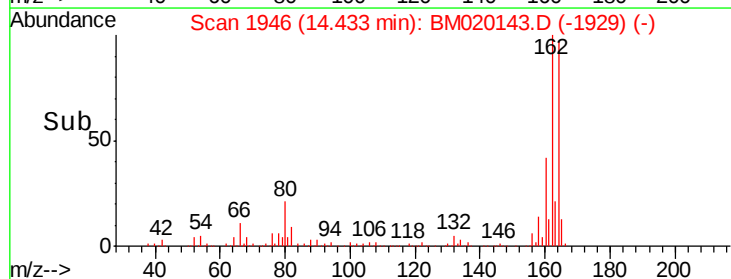
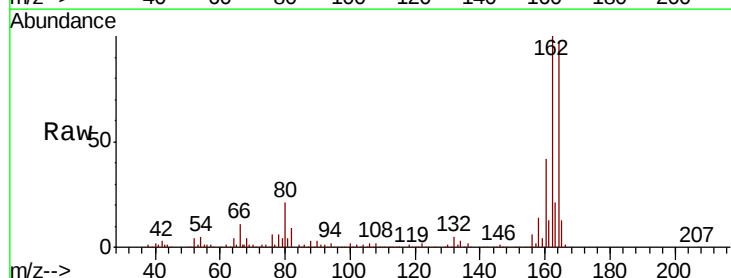
Manual Integrations
APPROVED

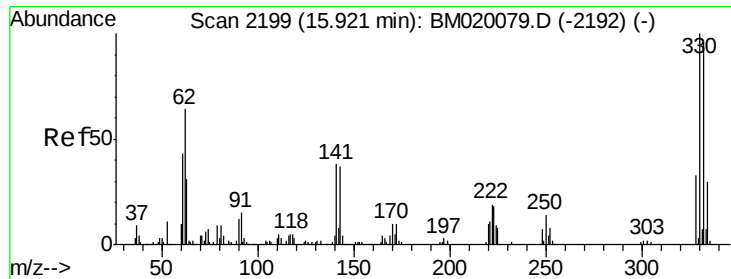
mohammad
5/7/2019 3:11:43 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.43 min Scan# 1946
Delta R.T. -0.00 min
Lab File: BM020143.D
Acq: 06 May 2019 19:38

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	82.2	123.2
160	43.4	37.6	56.4





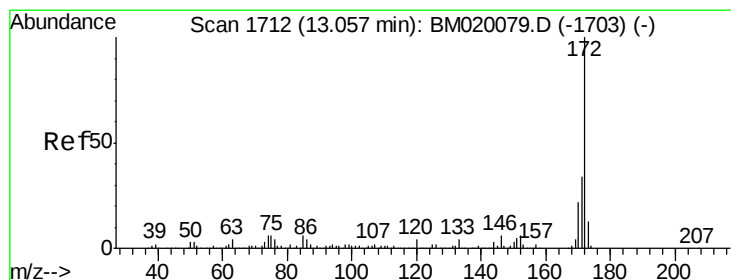
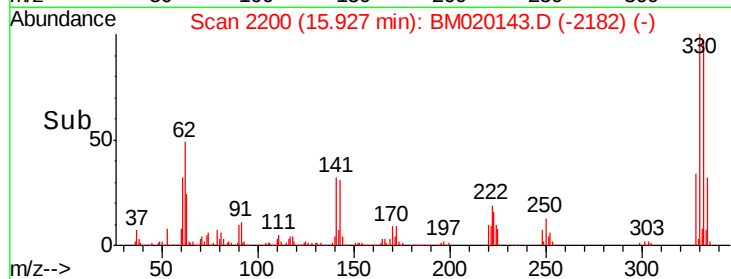
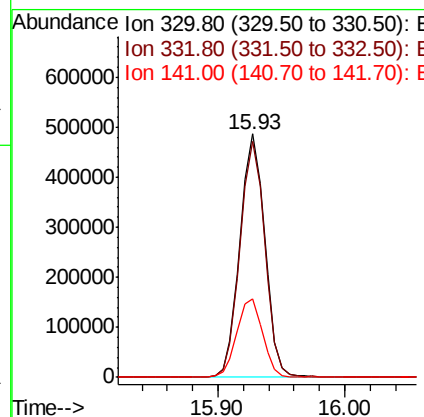
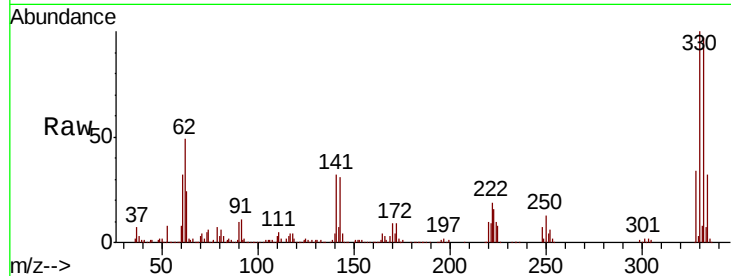
#42
 2,4,6-Tribromophenol
 Concen: 137.629 ng
 RT: 15.93 min Scan# 2200
 Delta R.T. 0.01 min
 Lab File: BM020143.D
 Acq: 06 May 2019 19:38

Instrument :
 BNA_M
 ClientSampleId :
 SP-02-COMP

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.8	115.2
141	33.1	29.2	43.8

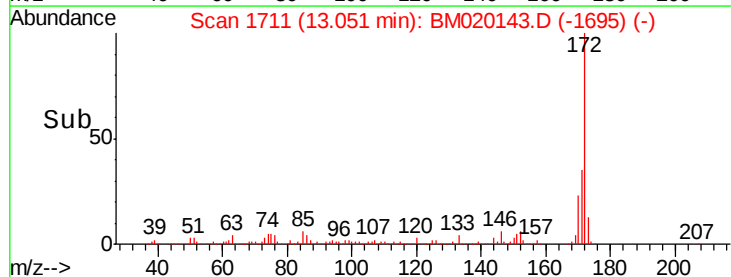
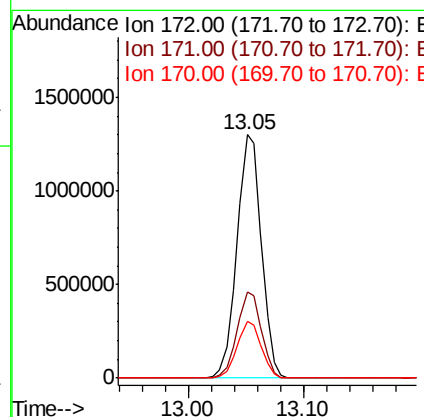
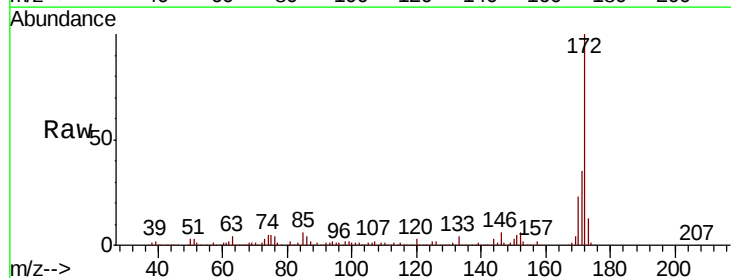
Manual Integrations
 APPROVED

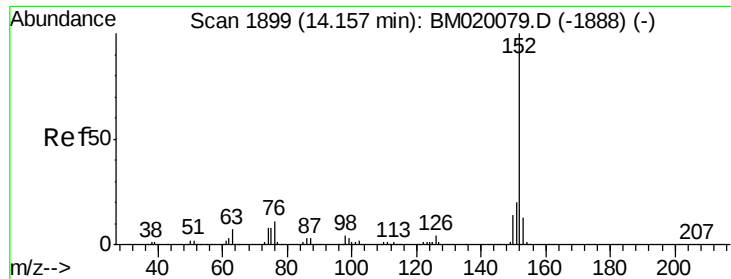
mohammad
 5/7/2019 3:11:43 PM



#45
 2-Fluorobiphenyl
 Concen: 75.356 ng
 RT: 13.05 min Scan# 1711
 Delta R.T. -0.01 min
 Lab File: BM020143.D
 Acq: 06 May 2019 19:38

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	27.3	40.9
170	23.1	17.9	26.9





#49

Acenaphthylene

Concen: 4.804 ng

RT: 14.16 min Scan# 1899

Delta R.T. -0.00 min

Lab File: BM020143.D

Acq: 06 May 2019 19:38

Instrument :

BNA_M

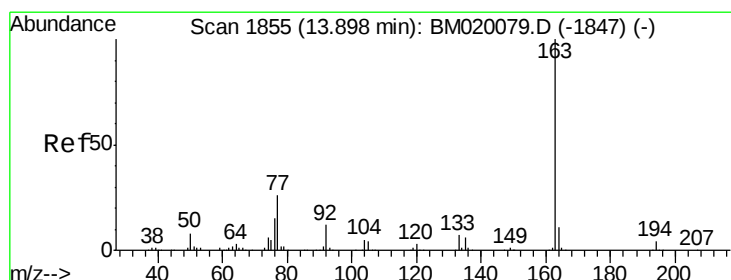
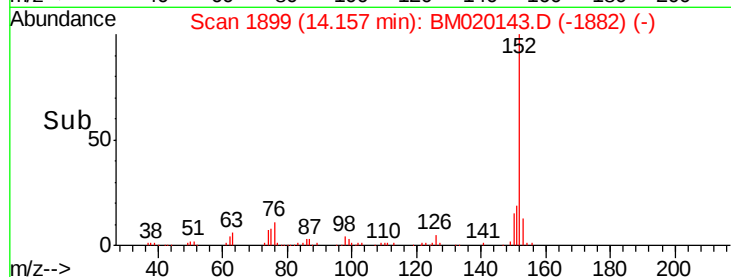
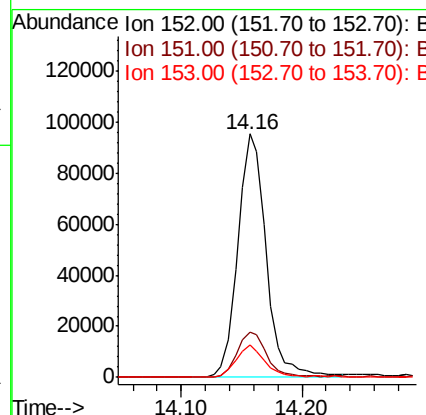
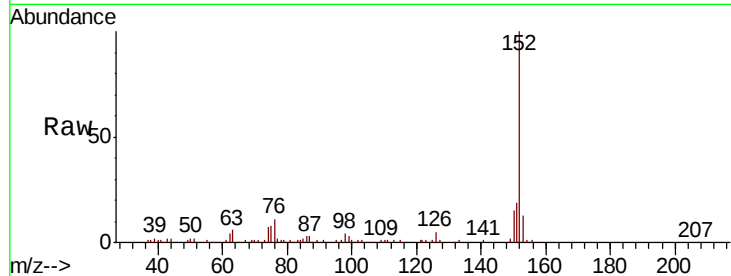
ClientSampleId :

SP-02-COMP

Tot Ion:	152	Resp:	156733
Ion Ratio	Lower	Upper	
152	100		
151	18.6	16.2	24.2
153	13.4	10.6	16.0

Manual Integrations
APPROVED

mohammad
5/7/2019 3:11:43 PM



#50

Dimethylphthalate

Concen: 16.046 ng

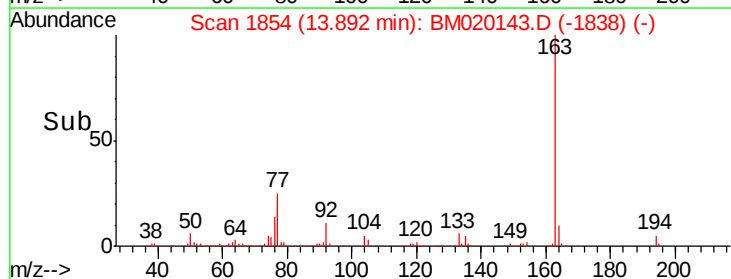
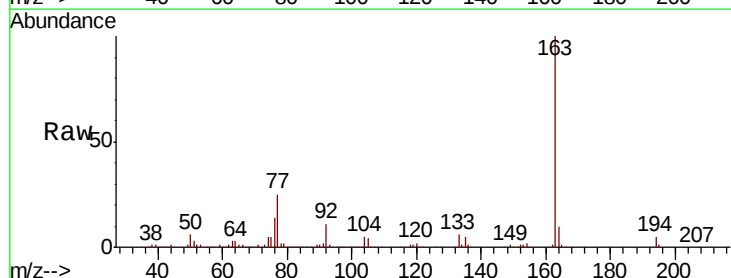
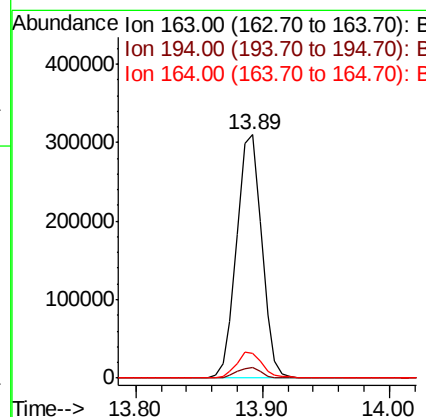
RT: 13.89 min Scan# 1854

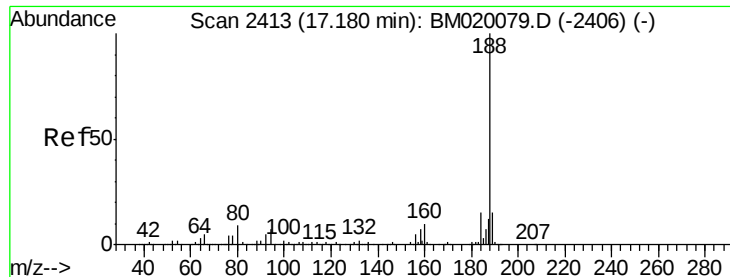
Delta R.T. -0.01 min

Lab File: BM020143.D

Acq: 06 May 2019 19:38

Tgt Ion:	163	Resp:	423030
Ion Ratio	Lower	Upper	
163	100		
194	4.6	3.6	5.4
164	10.0	8.4	12.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.18 min Scan# 2413

Delta R.T. -0.00 min

Lab File: BM020143.D

Acq: 06 May 2019 19:38

Instrument :

BNA_M

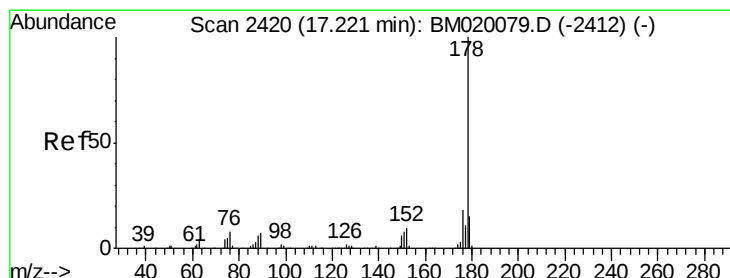
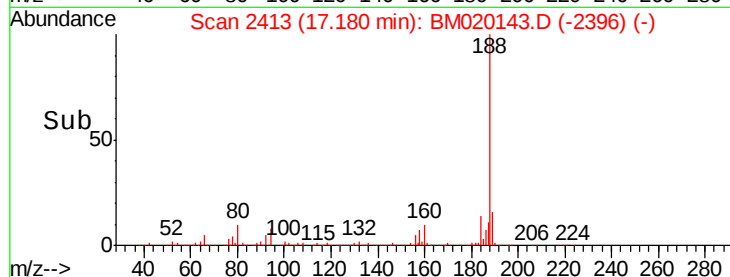
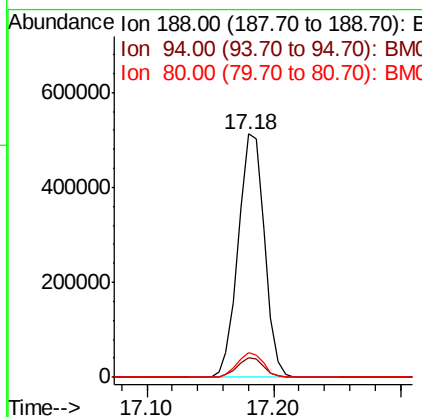
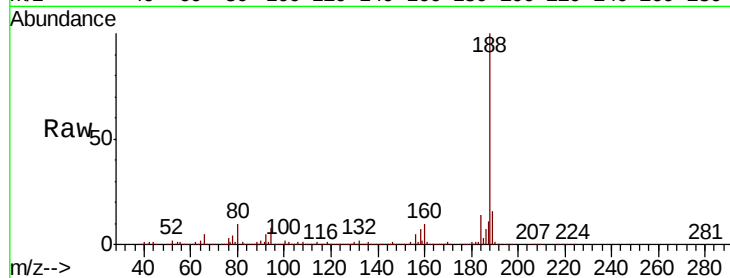
ClientSampleId :

SP-02-COMP

Tot Ion:	188	Resp:	733393
Ion Ratio	Lower	Upper	
188	100		
94	8.2	5.8	8.6
80	10.4	7.4	11.2

Manual Integrations
APPROVED

mohammad
5/7/2019 3:11:43 PM



#71

Phenanthrene

Concen: 3.459 ng

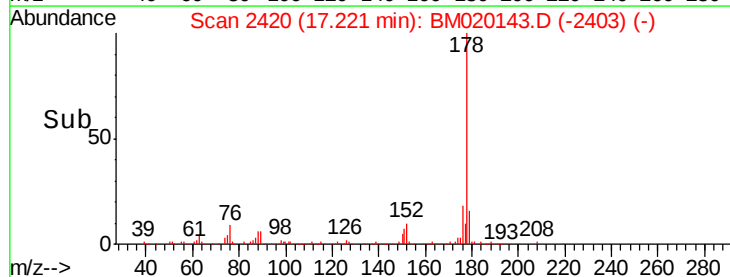
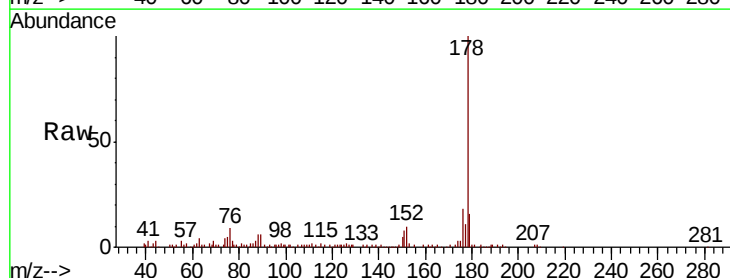
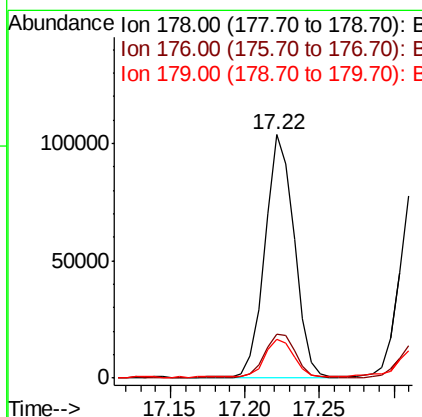
RT: 17.22 min Scan# 2420

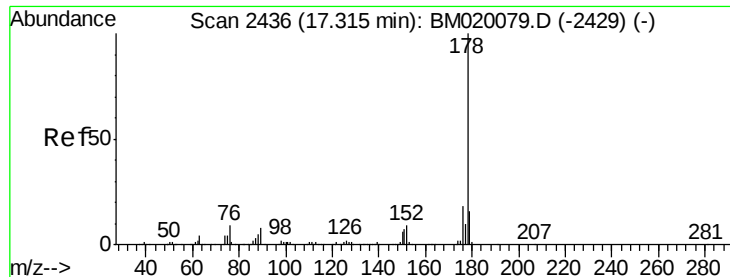
Delta R.T. -0.00 min

Lab File: BM020143.D

Acq: 06 May 2019 19:38

Tgt Ion:	178	Resp:	140030
Ion Ratio	Lower	Upper	
178	100		
176	18.3	14.6	21.8
179	15.9	12.4	18.6





#72

Anthracene

Concen: 3.294 ng

RT: 17.32 min Scan# 2436

Delta R.T. -0.00 min

Lab File: BM020143.D

Acq: 06 May 2019 19:38

Instrument :

BNA_M

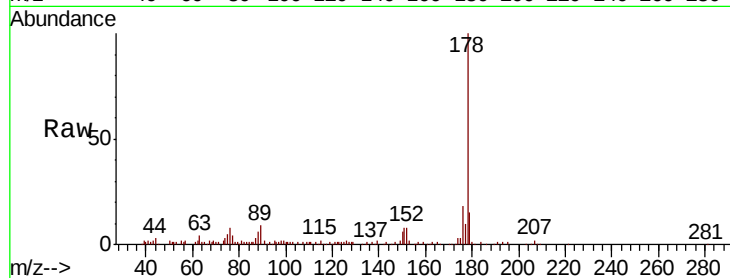
ClientSampleId :

SP-02-COMP

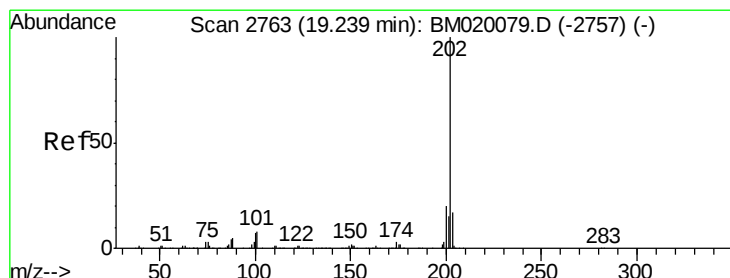
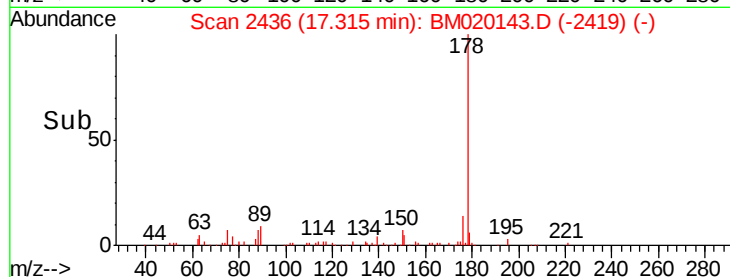
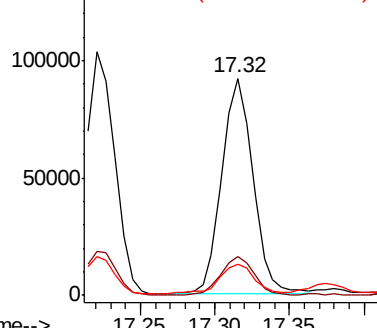
Tot Ion:	178	Resp:	133317
Ion Ratio	Lower	Upper	
178	100		
176	17.8	14.6	22.0
179	14.5	12.4	18.6

Manual Integrations
APPROVED

mohammad
5/7/2019 3:11:43 PM



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



#75

Fluoranthene

Concen: 10.701 ng

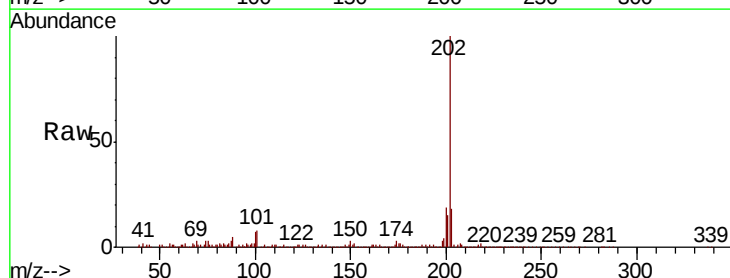
RT: 19.24 min Scan# 2763

Delta R.T. -0.00 min

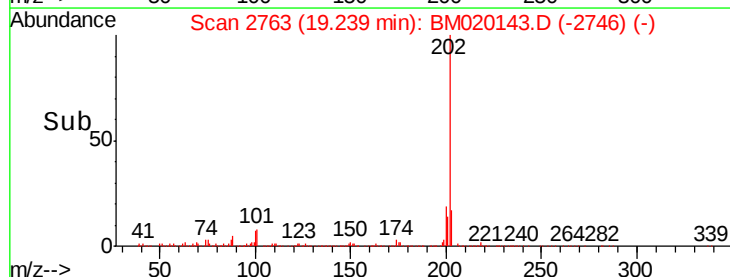
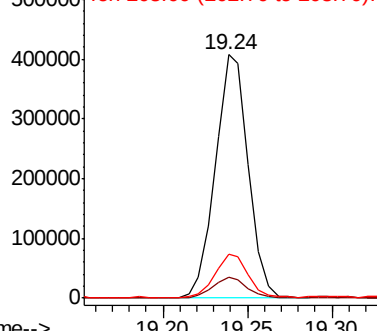
Lab File: BM020143.D

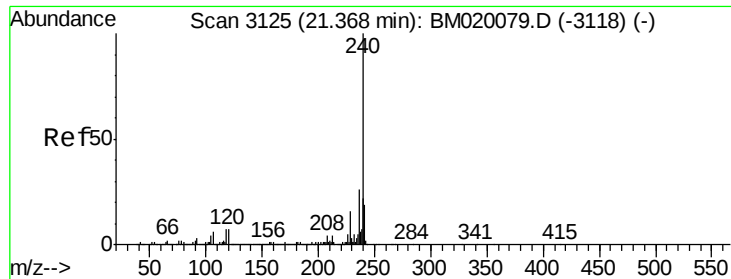
Acq: 06 May 2019 19:38

Tgt Ion:	202	Resp:	548110
Ion Ratio	Lower	Upper	
202	100		
101	8.4	0.0	28.4
203	17.9	0.0	37.4



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.37 min Scan# 3125

Delta R.T. -0.00 min

Lab File: BM020143.D

Acq: 06 May 2019 19:38

Instrument :

BNA_M

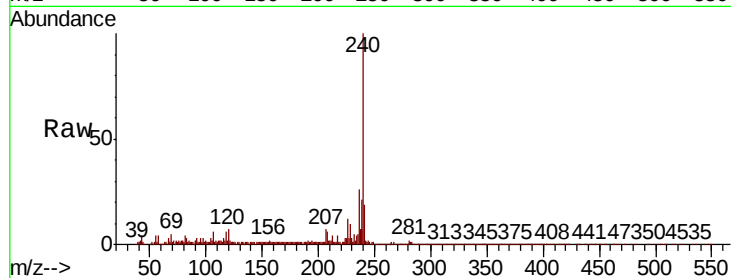
ClientSampleId :

SP-02-COMP

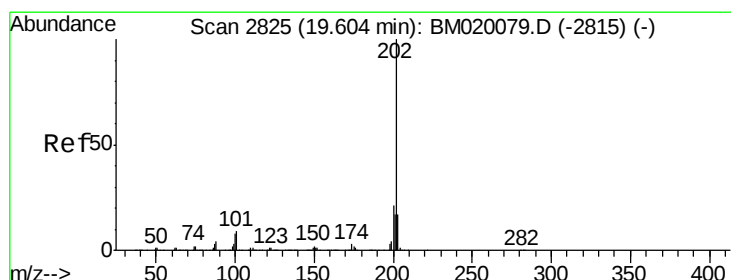
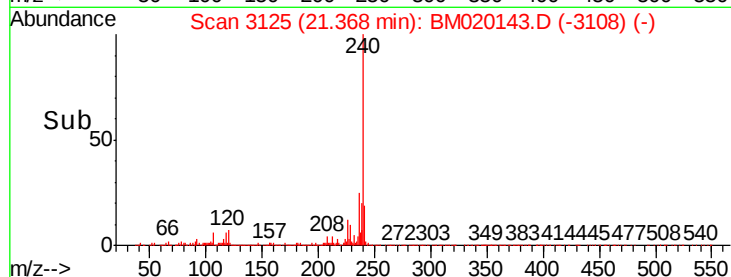
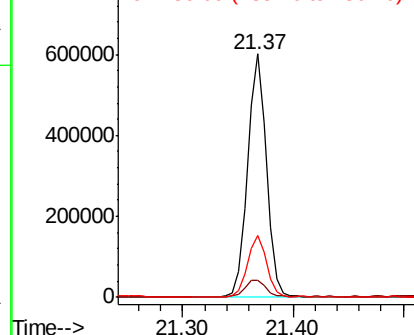
Tot Ion:	240	Resp:	717664
Ion Ratio	Lower	Upper	
240	100		
120	7.2	5.6	8.4
236	25.5	20.9	31.3

Manual Integrations
APPROVED

mohammad
5/7/2019 3:11:43 PM



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



#78

Pyrene

Concen: 11.909 ng

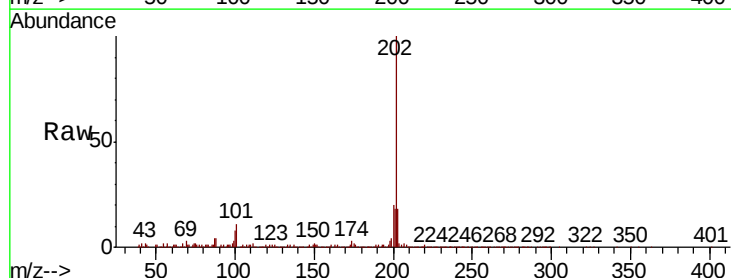
RT: 19.60 min Scan# 2825

Delta R.T. -0.00 min

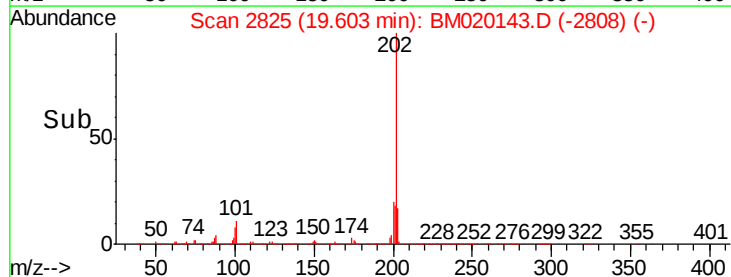
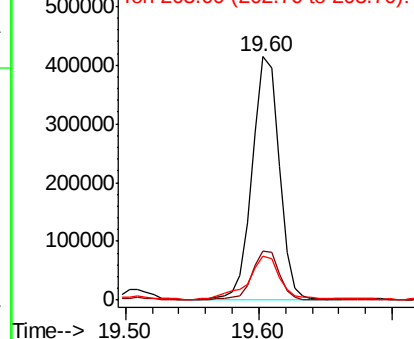
Lab File: BM020143.D

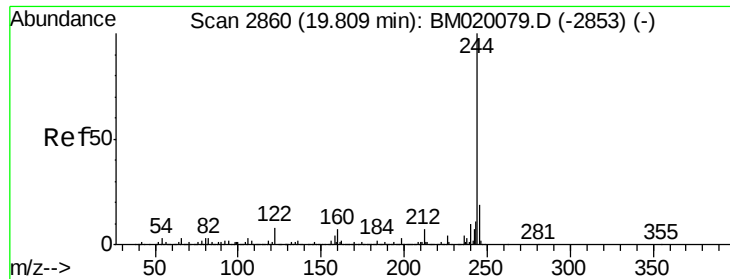
Acq: 06 May 2019 19:38

Tgt Ion:	202	Resp:	573796
Ion Ratio	Lower	Upper	
202	100		
200	20.2	16.5	24.7
203	17.8	13.9	20.9



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





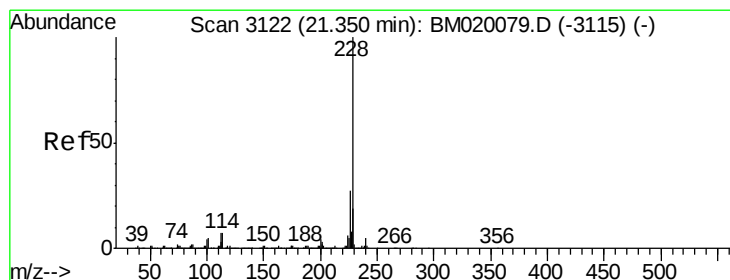
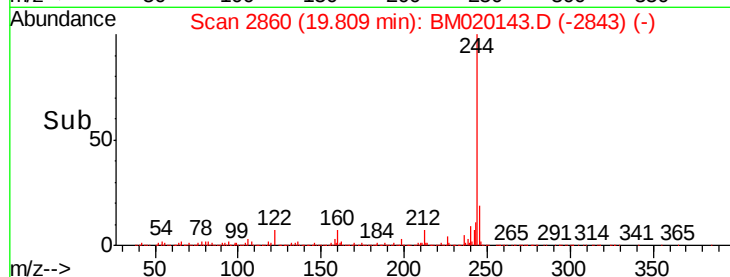
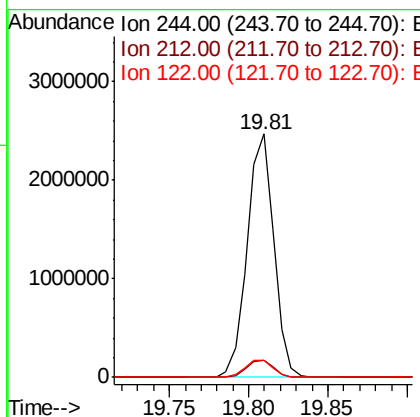
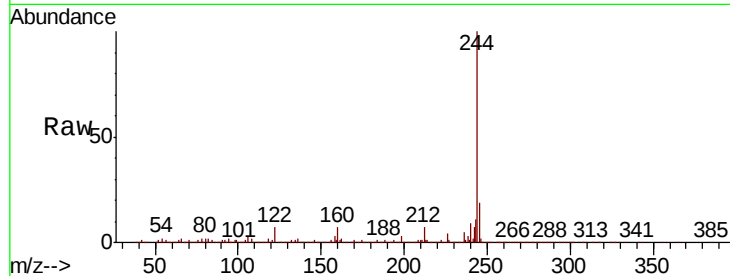
#79
 Terphenyl-d14
 Concen: 69.915 ng
 RT: 19.81 min Scan# 2860
 Delta R.T. -0.00 min
 Lab File: BM020143.D
 Acq: 06 May 2019 19:38

Instrument :
 BNA_M
 ClientSampleId :
 SP-02-COMP

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	7.1	6.2	9.2

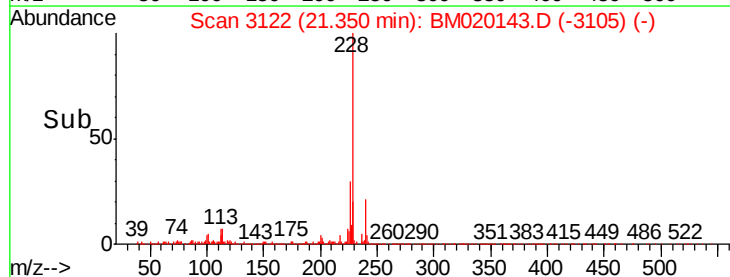
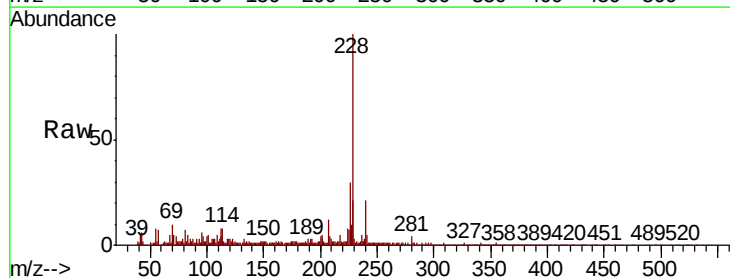
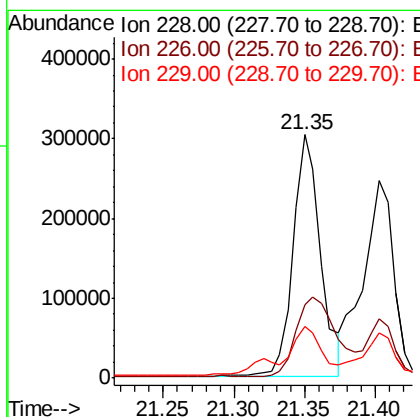
Manual Integrations
 APPROVED

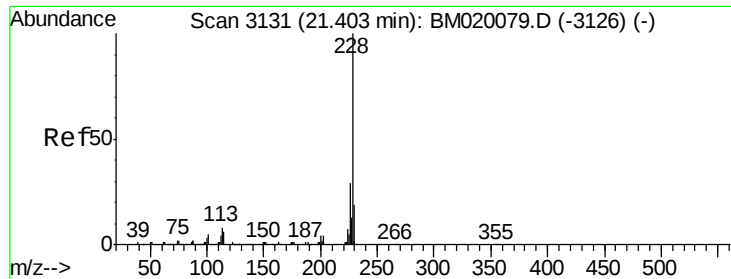
mohammad
 5/7/2019 3:11:43 PM



#81
 Benzo(a)anthracene
 Concen: 8.171 ng
 RT: 21.35 min Scan# 3122
 Delta R.T. -0.00 min
 Lab File: BM020143.D
 Acq: 06 May 2019 19:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	21.3	31.9
229	21.1	15.5	23.3





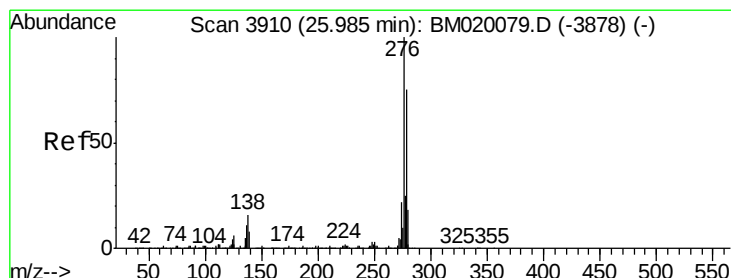
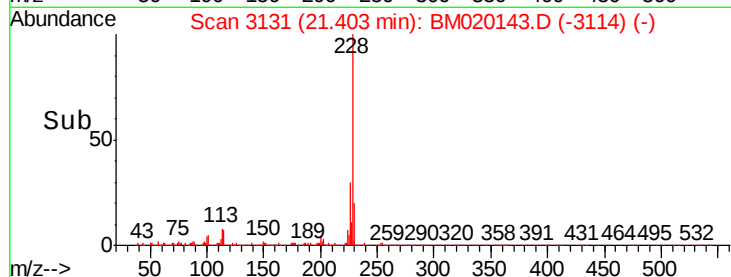
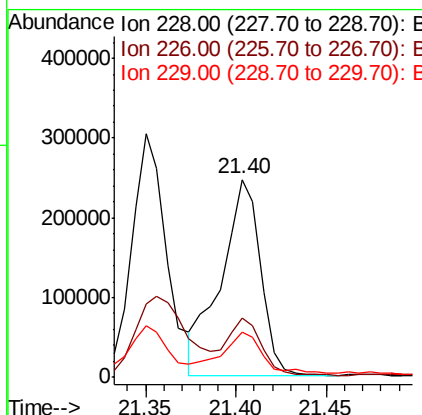
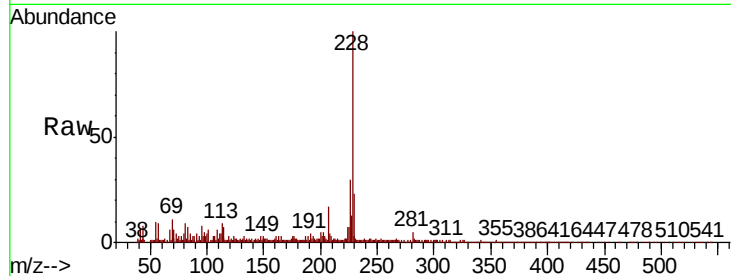
#83
Chrysene
Concen: 7.614 ng
RT: 21.40 min Scan# 3131
Delta R.T. -0.00 min
Lab File: BM020143.D
Acq: 06 May 2019 19:38

Instrument :
BNA_M
ClientSampleId :
SP-02-COMP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100				
226	30.1		23.0	34.6	
229	22.8		15.5	23.3	

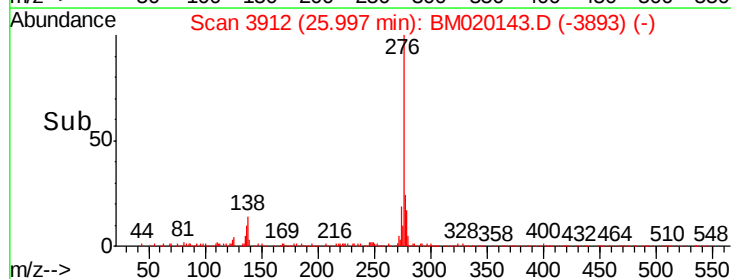
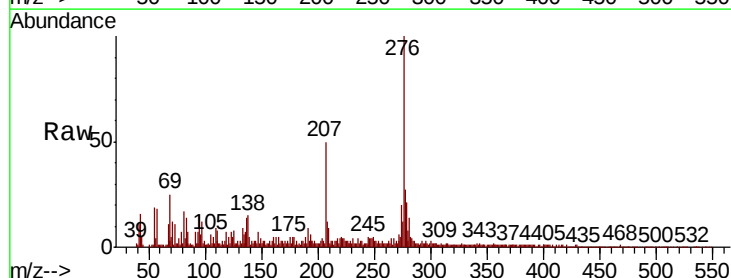
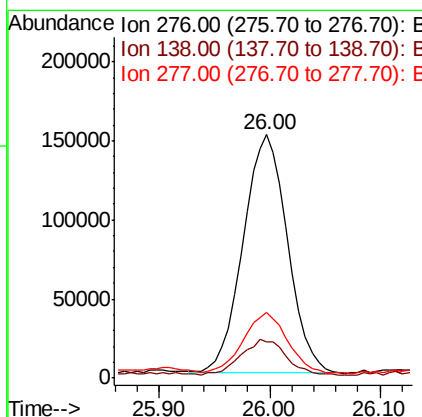
Manual Integrations
APPROVED

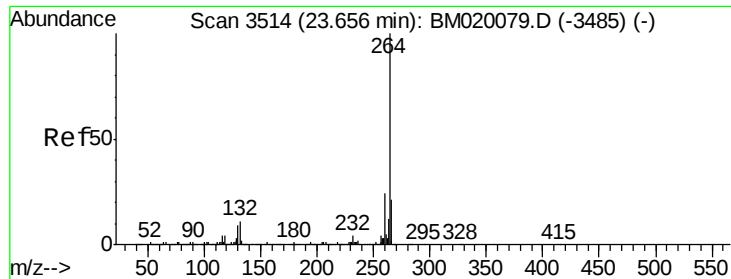
mohammad
5/7/2019 3:11:43 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 7.301 ng
RT: 26.00 min Scan# 3912
Delta R.T. 0.01 min
Lab File: BM020143.D
Acq: 06 May 2019 19:38

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
138	14.9		0.0	0.0#	
277	24.3		0.0	0.0#	





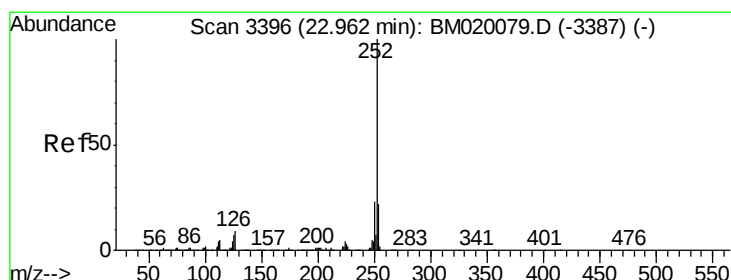
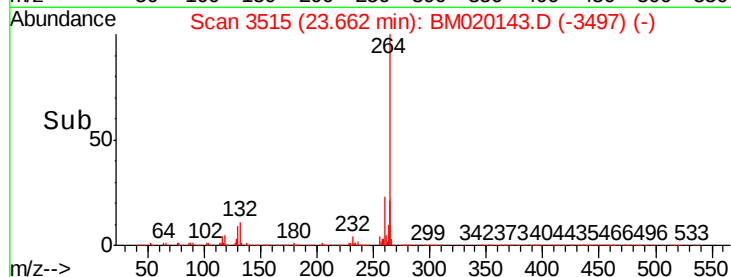
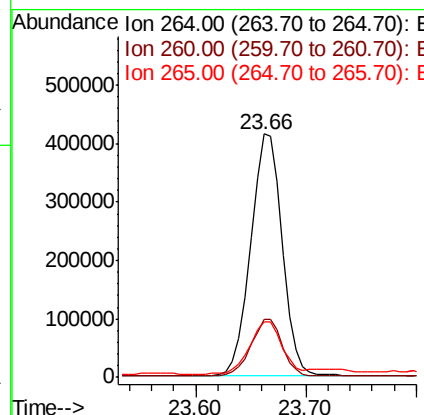
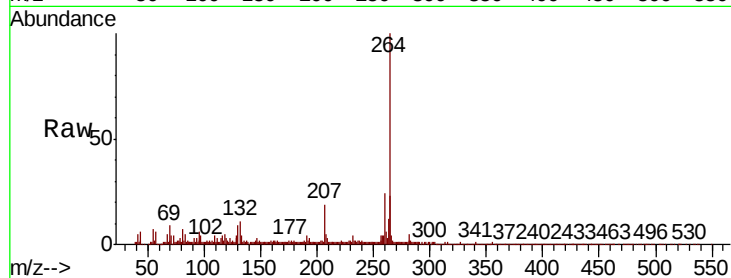
#87
Pervlene-d12
Concen: 20.000 ng
RT: 23.66 min Scan# 3515
Delta R.T. 0.01 min
Lab File: BM020143.D
Acq: 06 May 2019 19:38

Instrument :
BNA_M
ClientSampleId :
SP-02-COMP

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	22.6	16.9	25.3

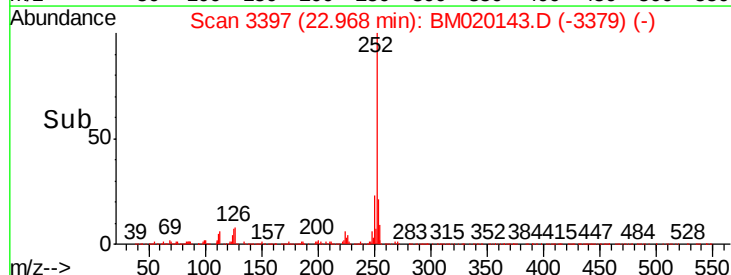
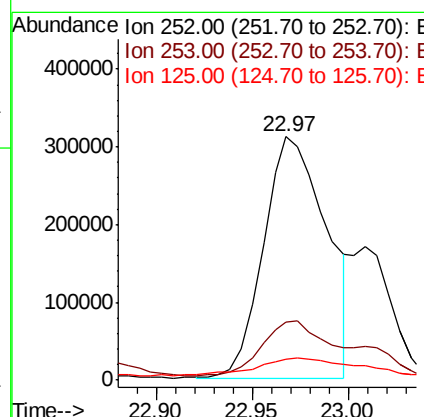
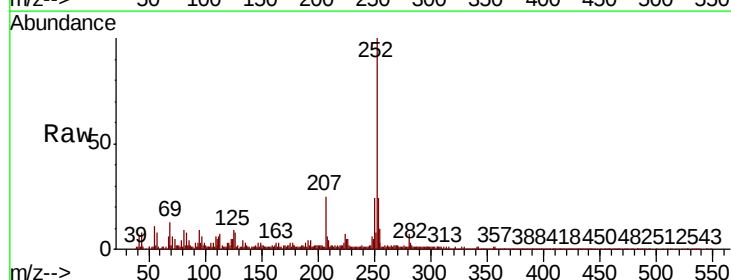
Manual Integrations
APPROVED

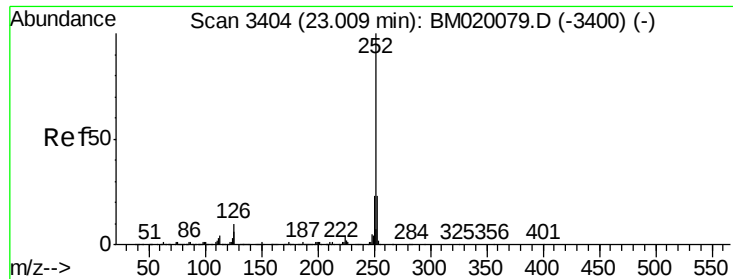
mohammad
5/7/2019 3:11:43 PM



#88
Benzo(b)fluoranthene
Concen: 12.853 ng m
RT: 22.97 min Scan# 3397
Delta R.T. 0.01 min
Lab File: BM020143.D
Acq: 06 May 2019 19:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	8.7	5.4	8.2#





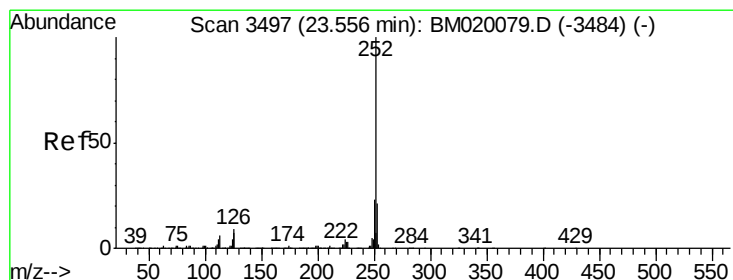
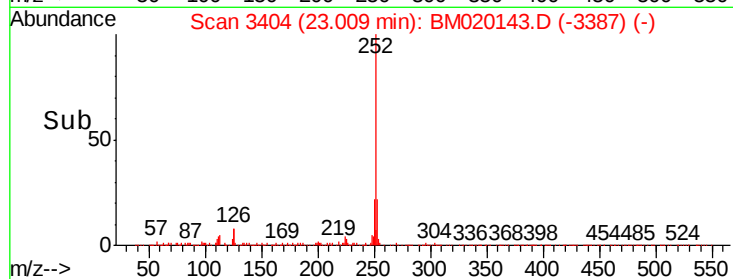
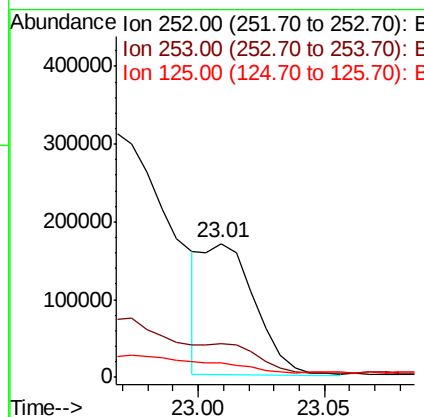
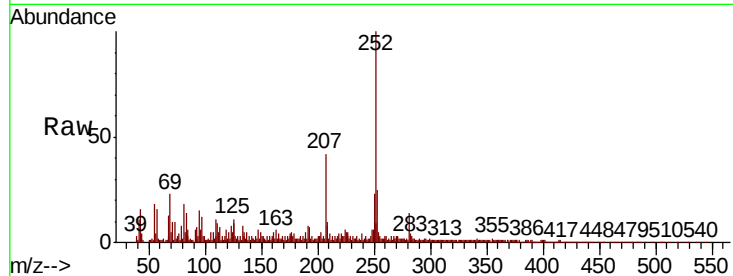
#89
Benzo(k)fluoranthene
Concen: 4.868 ng m
RT: 23.01 min Scan# 3404
Delta R.T. -0.00 min
Lab File: BM020143.D
Acq: 06 May 2019 19:38

Instrument :
BNA_M
ClientSampleId :
SP-02-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.8	26.8
125	11.1	5.4	8.0

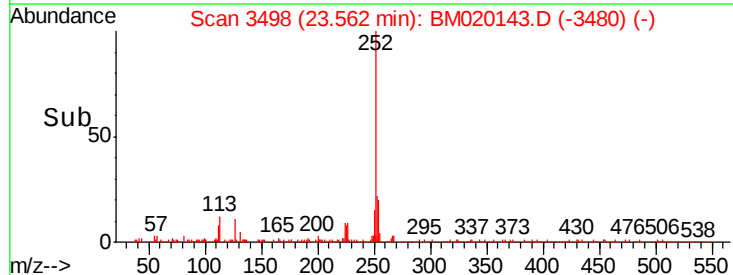
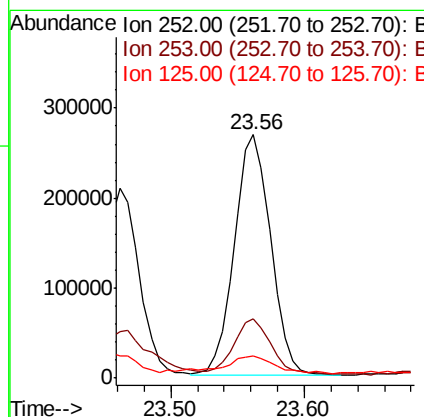
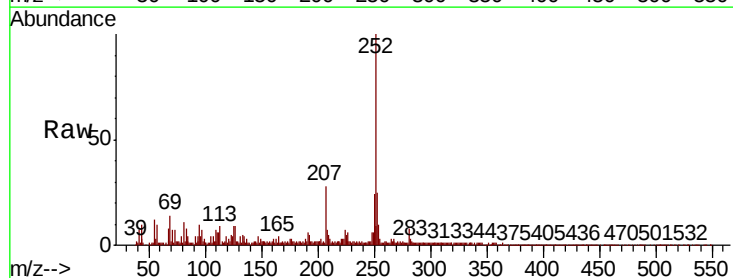
Manual Integrations
APPROVED

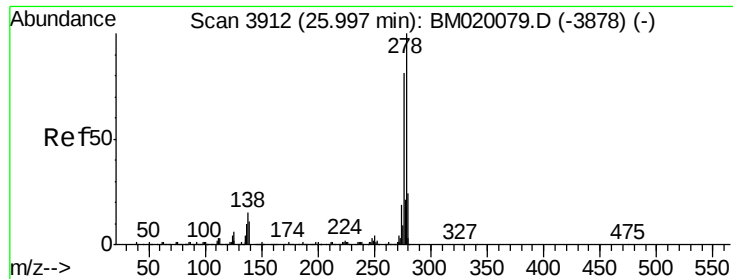
mohammad
5/7/2019 3:11:43 PM



#90
Benzo(a)pyrene
Concen: 10.086 ng
RT: 23.56 min Scan# 3498
Delta R.T. 0.01 min
Lab File: BM020143.D
Acq: 06 May 2019 19:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.0	25.6
125	9.3	5.5	8.3





#91

Dibenzo(a,h)anthracene

Concen: 2.114 ng

RT: 26.01 min Scan# 3914

Delta R.T. 0.01 min

Lab File: BM020143.D

Acq: 06 May 2019 19:38

Instrument :

BNA_M

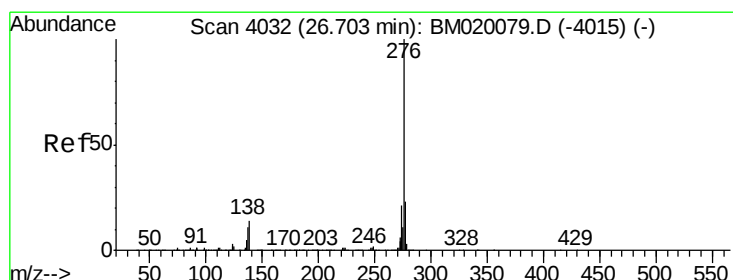
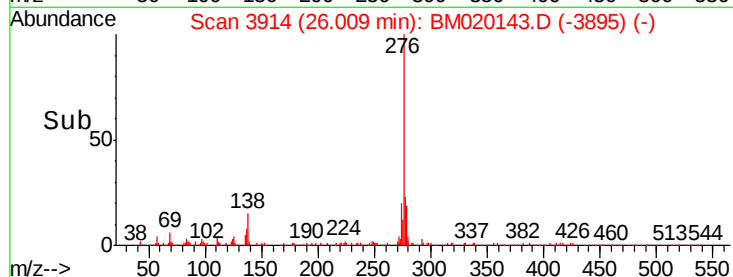
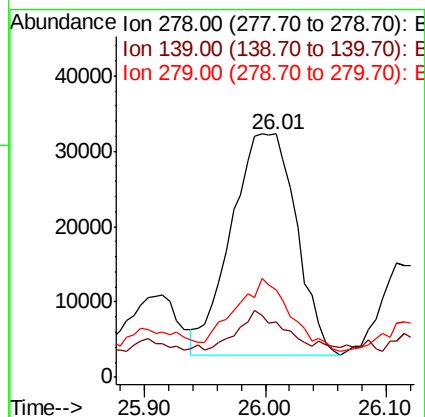
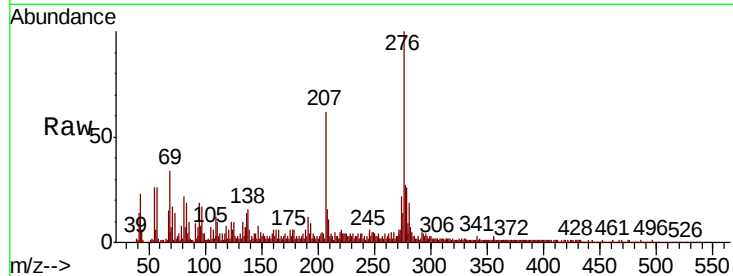
ClientSampleId :

SP-02-COMP

Tot Ion:	278	Resp:	110014
Ion Ratio	Lower	Upper	
278	100		
139	22.6	8.6	13.0#
279	36.0	18.8	28.2#

Manual Integrations
APPROVED

mohammad
5/7/2019 3:11:43 PM



#92

Benzo(g,h,i)perylene

Concen: 8.983 ng

RT: 26.72 min Scan# 4035

Delta R.T. 0.02 min

Lab File: BM020143.D

Acq: 06 May 2019 19:38

Tgt Ion:	276	Resp:	443792
Ion Ratio	Lower	Upper	
276	100		
277	23.9	18.4	27.6
138	15.2	11.1	16.7

