

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062320\
 Data File : BM026544.D
 Acq On : 25 Jun 2020 01:14
 Operator : JU/CG
 Sample : L3064-07
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleID :
 ET161

Manual Integrations
 APPROVED

mohammad
 6/25/2020 1:05:38 PM

Quant Time: Jun 25 09:14:01 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM061220MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Jun 23 10:25:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.37	152	110604	20.00	ng/ul	0.00
18) Naphthalene-d8	10.13	136	485232	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.04	164	413737	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.80	188	734930	20.00	ng/ul	0.00
78) Chrysene-d12	21.01	240	796166	20.00	ng/ul	0.00
86) Perylene-d12	23.09	264	644257	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.98	96	2746	0.87	ng/uL	0.00
5) Phenol-d5	6.58	99	46656	4.58	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.73	67	36535	5.67	ng/ul	0.00
9) 2-Chlorophenol-d4	6.92	132	38629	4.65	ng/ul	0.00
13) 4-Methylphenol-d8	8.10	113	39213	4.89	ng/ul	0.00
19) Nitrobenzene-d5	8.52	128	18131	4.21	ng/ul	0.00
22) 2-Nitrophenol-d4	9.24	143	14699	3.10	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.78	165	39092	4.48	ng/ul	0.00
29) 4-Chloroaniline-d4	10.29	131	26398	2.90	ng/ul	0.00
44) Dimethylphthalate-d6	13.47	166	144386	4.15	ng/ul	0.00
47) Acenaphthylene-d8	13.72	160	152643	3.66	ng/ul	0.00
52) 4-Nitrophenol-d4	14.30	143	7342	1.27	ng/ul	0.02
58) Fluorene-d10	15.07	176	254185m	8.51	ng/ul	0.03
63) 4,6-Dinitro-2-methylphenol	15.22	200	4611	0.96	ng/ul	0.04
71) Anthracene-d10	16.90	188	202212m	5.41	ng/ul	0.01
79) Pyrene-d10	19.20	212	222034	5.09	ng/ul	0.00
90) Benzo(a)pyrene-d12	22.96	264	168590	4.73	ng/ul	0.00

Target Compounds

					Ovalue
4) Benzaldehyde	6.54	77	21861	3.735	ng/ul# 70
14) Acetophenone	8.20	105	32321	2.455	ng/ul# 93
28) Naphthalene	10.18	128	765362	25.939	ng/ul 98
34) 2-Methylnaphthalene	11.82	142	5580606	269.108	ng/ul 98
41) 1,1'-Biphenyl	12.86	154	1375816	37.472	ng/ul 99
45) Dimethylphthalate	13.52	163	64992	1.799	ng/ul 99
48) Acenaphthylene	13.75	152	511948	11.517	ng/ul# 94
50) Acenaphthene	14.14	153	22265238	725.872	ng/ul 95
54) Dibenzofuran	14.47	168	19370936m	447.322	ng/ul
59) Fluorene	15.13	166	17300007	484.008	ng/ul 98
70) Phenanthrene	16.86	178	16388855m	355.549	ng/ul
72) Anthracene	16.94	178	4728094	100.075	ng/ul 99
75) Carbazole	17.20	167	214735	5.470	ng/ul# 93
77) Fluoranthene	18.88	202	9567253	189.984	ng/ul 99
80) Pyrene	19.24	202	6789067	115.983	ng/ul 99
83) Benzo(a)anthracene	20.99	228	3041395m	53.625	ng/ul
85) Chrysene	21.04	228	2848684	51.739	ng/ul 98
88) Benzo(b)fluoranthene	22.49	252	3289647	74.457	ng/ul 99
89) Benzo(k)fluoranthene	22.52	252	1133707	26.677	ng/ul 99
91) Benzo(a)pyrene	23.01	252	2180024	56.011	ng/ul 98
92) Indeno(1,2,3-cd)pyrene	25.12	276	1386288	27.173	ng/ul 97
93) Dibenzo(a,h)anthracene	25.12	278	335073m	7.871	ng/ul
94) Benzo(g,h,i)perylene	25.74	276	1219742	28.621	ng/ul 100

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062320\
Data File : BM026544.D
Acq On : 25 Jun 2020 01:14
Operator : JU/CG
Sample : L3064-07
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ET161

Manual Integrations
APPROVED

mohammad
6/25/2020 1:05:38 PM

Quant Time: Jun 25 09:14:01 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM061220MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 23 10:25:31 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

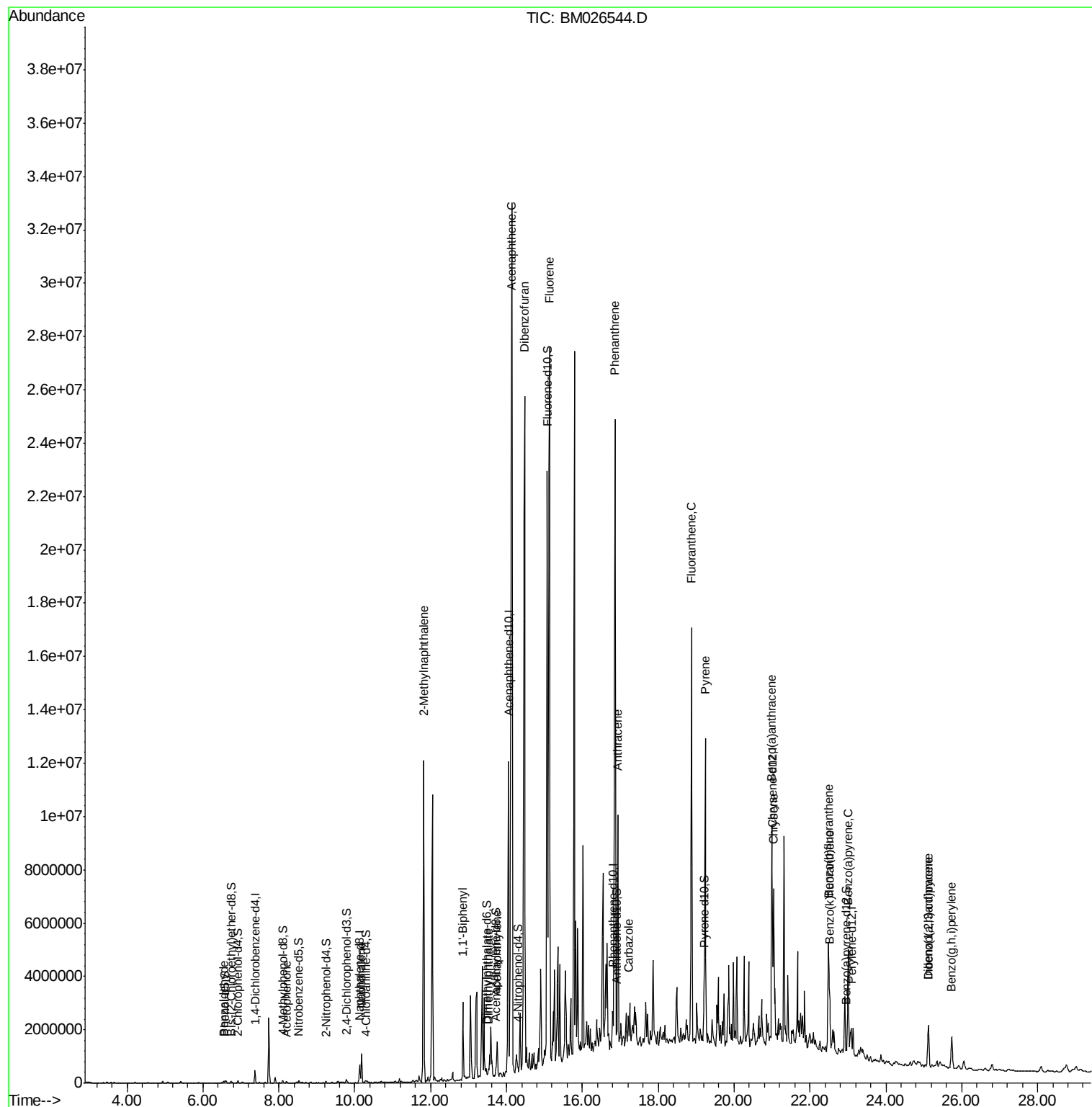
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062320\
Data File : BM026544.D
Acq On : 25 Jun 2020 01:14
Operator : JU/CG
Sample : L3064-07
Misc :
ALS Vial : 57 Sample Multiplier: 1

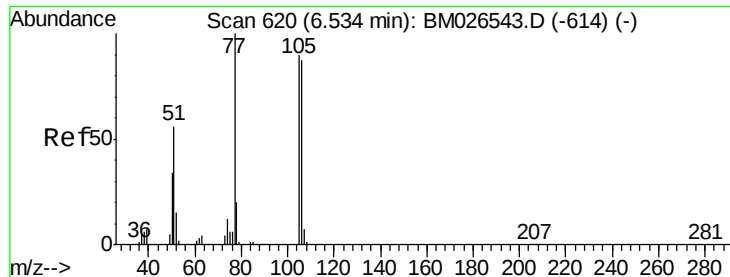
Instrument :
BNA_M
ClientSampleId :
ET161

Quant Time: Jun 25 09:14:01 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM061220MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 23 10:25:31 2020
Response via : Initial Calibration

Manual Integrations
APPROVED

mohammad
6/25/2020 1:05:38 PM





#4

Benzaldehyde

Concen: 3.735 ng/ul

RT: 6.54 min Scan# 621

Delta R.T. -0.00 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

Instrument :

BNA_M

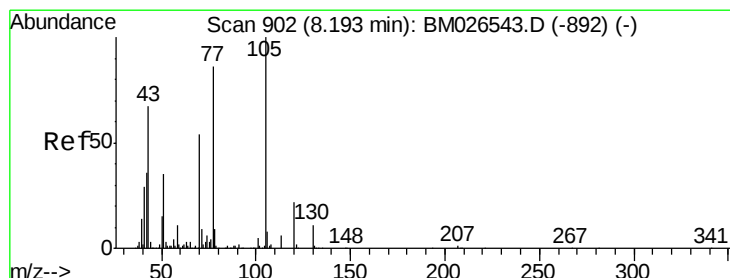
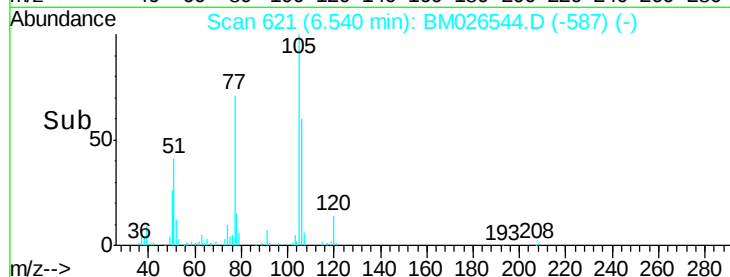
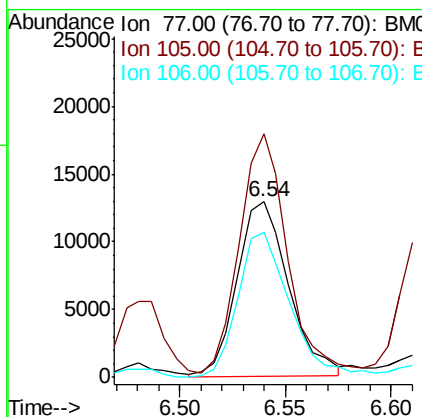
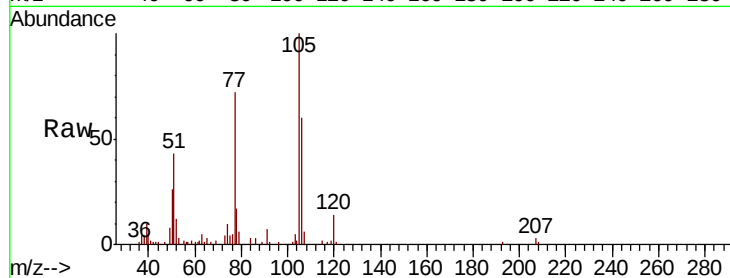
ClientSampled :

ET161

Tot Ion:	77	Resp:	21861
Ion	Ratio	Lower	Upper
77	100		
105	138.9	68.6	102.8#
106	82.8	66.2	99.2

Manual Integrations
APPROVED

mohammad
6/25/2020 1:05:38 PM



#14

Acetophenone

Concen: 2.455 ng/ul

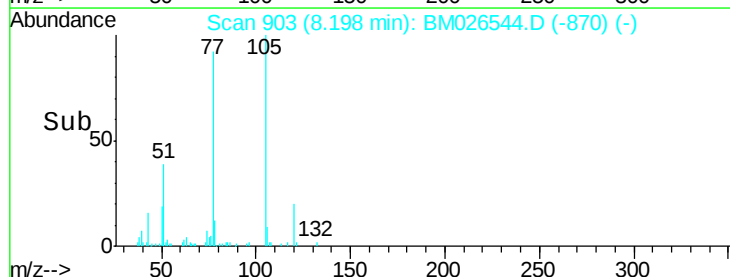
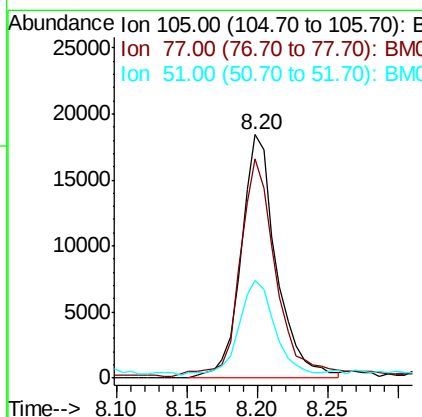
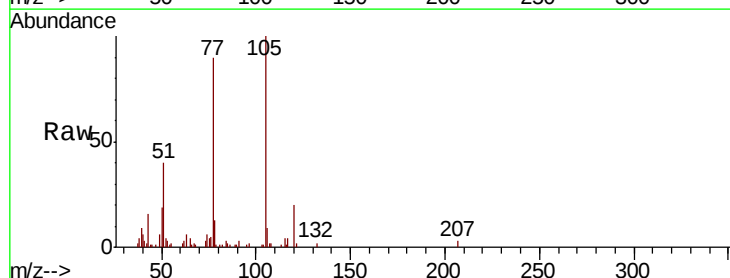
RT: 8.20 min Scan# 903

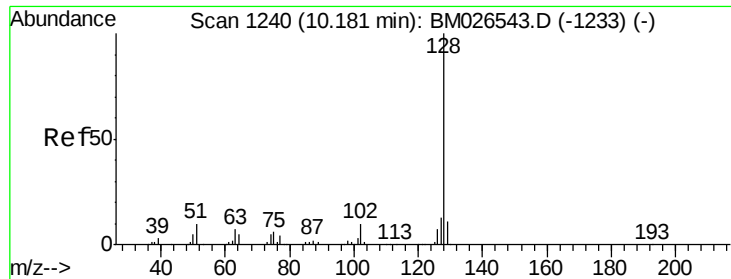
Delta R.T. -0.01 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

Tgt Ion:	105	Resp:	32321
Ion	Ratio	Lower	Upper
105	100		
77	90.1	68.9	103.3
51	40.4	26.5	39.7#





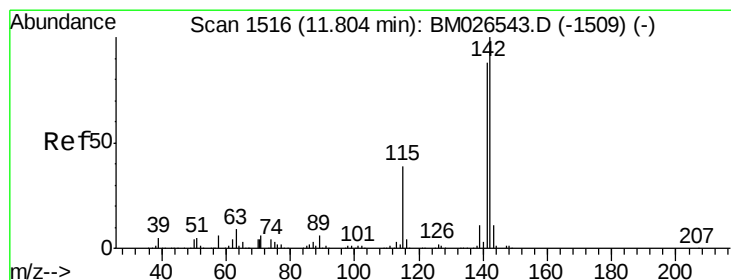
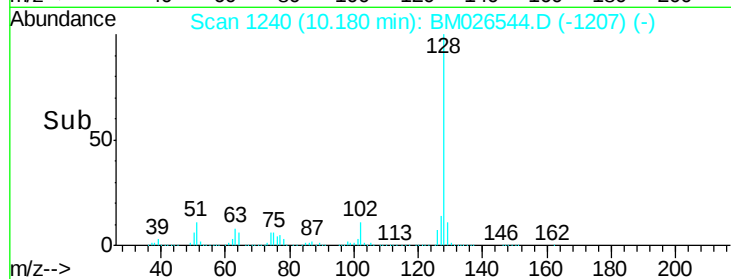
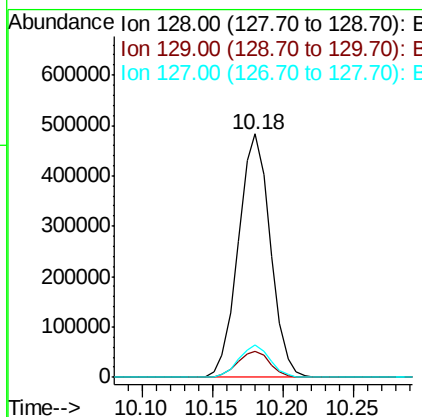
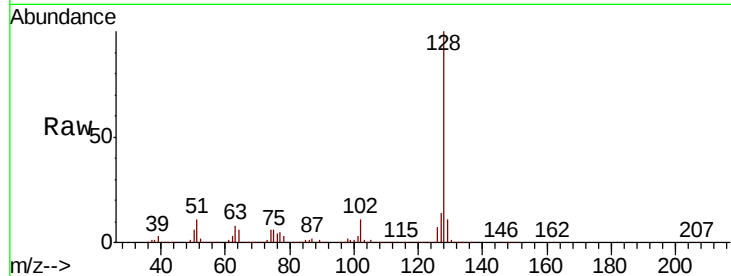
#28
Naphthalene
Concen: 25.939 ng/ul
RT: 10.18 min Scan# 1240
Delta R.T. -0.01 min
Lab File: BM026544.D
Acq: 25 Jun 2020 01:14

Instrument :
BNA_M
ClientSampleId :
ET161

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	13.6	10.1	15.1

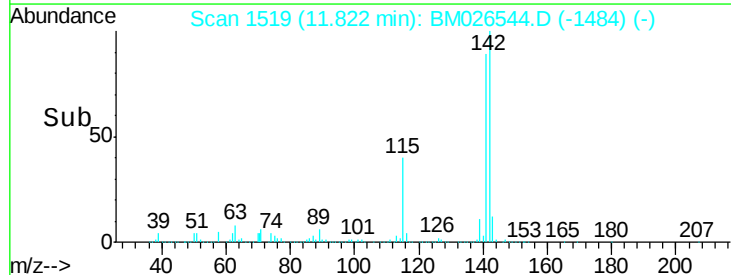
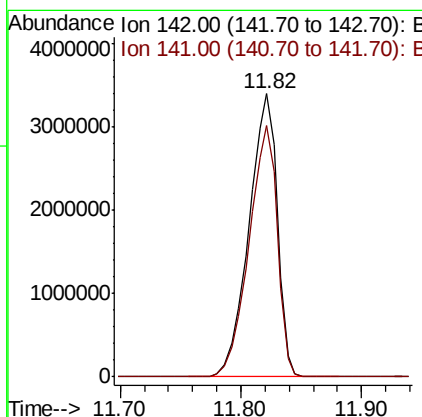
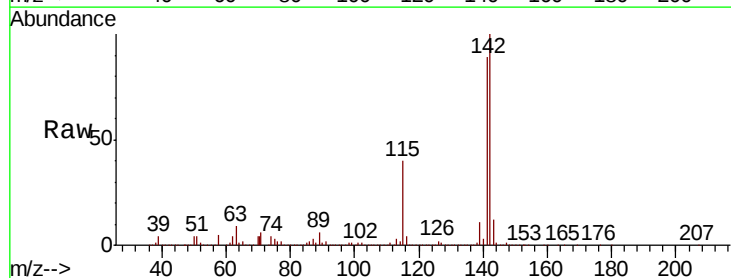
Manual Integrations
APPROVED

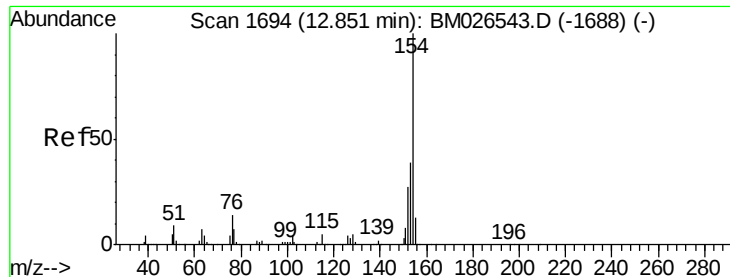
mohammad
6/25/2020 1:05:38 PM



#34
2-Methylnaphthalene
Concen: 269.108 ng/ul
RT: 11.82 min Scan# 1519
Delta R.T. 0.01 min
Lab File: BM026544.D
Acq: 25 Jun 2020 01:14

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.6	72.1	108.1





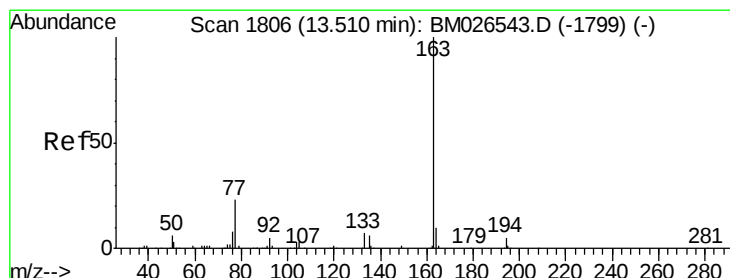
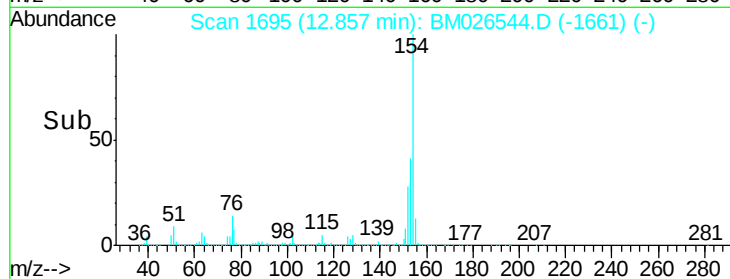
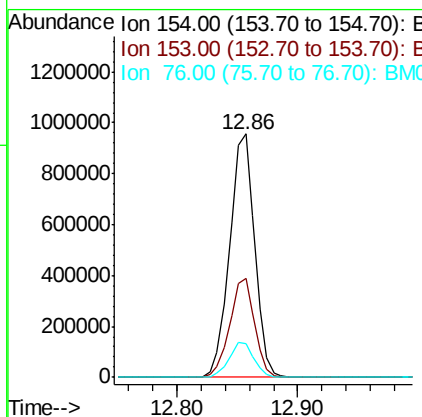
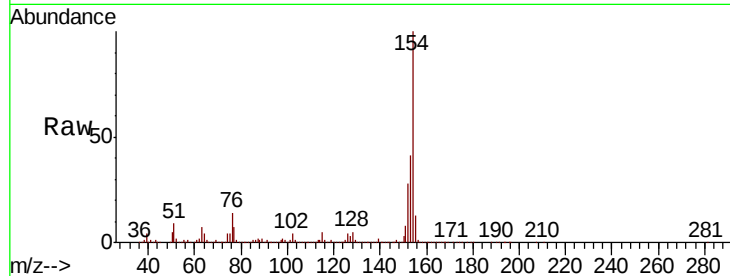
#41
 1,1'-Biphenyl
 Concen: 37.472 ng/ul
 RT: 12.86 min Scan# 1695
 Delta R.T. -0.00 min
 Lab File: BM026544.D
 Acq: 25 Jun 2020 01:14

Instrument :
 BNA_M
 ClientSampleId :
 ET161

Tot Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.6	49.0
76	13.9	11.8	17.8

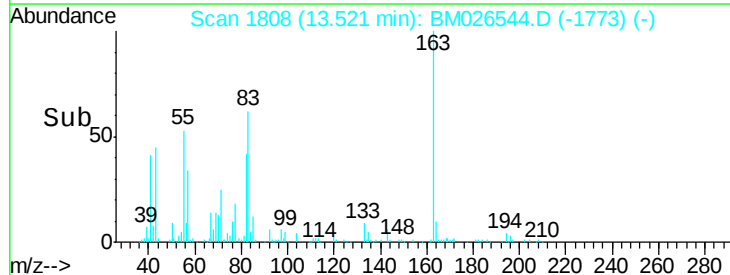
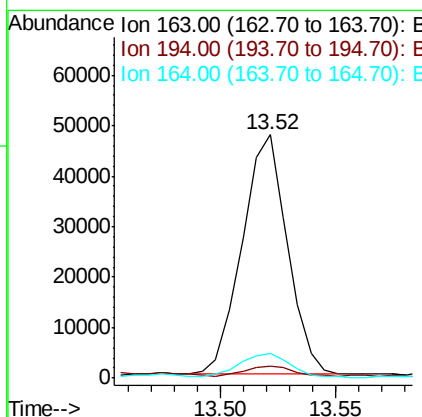
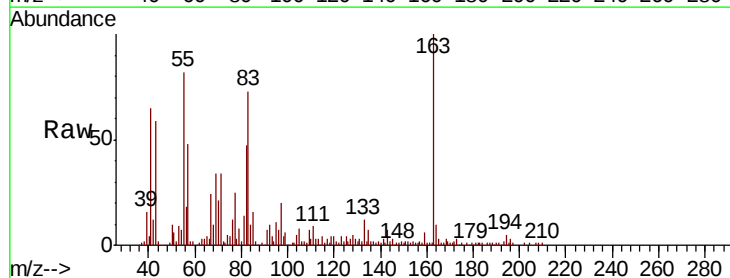
Manual Integrations
 APPROVED

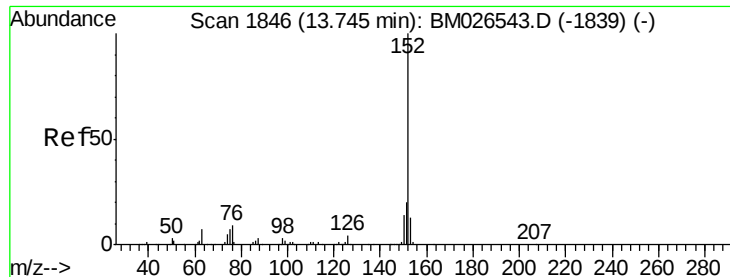
mohammad
 6/25/2020 1:05:38 PM



#45
 Dimethylphthalate
 Concen: 1.799 ng/ul
 RT: 13.52 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: BM026544.D
 Acq: 25 Jun 2020 01:14

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.7	3.4	5.2
164	10.2	7.8	11.6





#48

Acenaphthylene

Concen: 11.517 ng/ul

RT: 13.75 min Scan# 1847

Delta R.T. -0.00 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

Instrument :

BNA_M

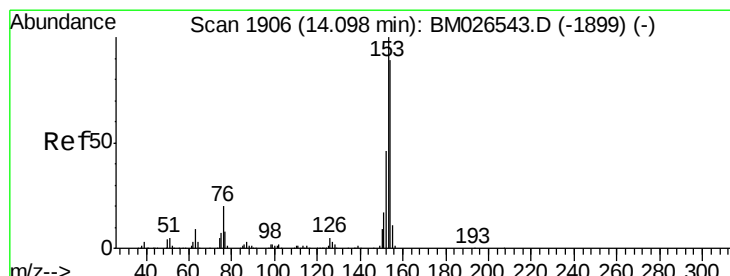
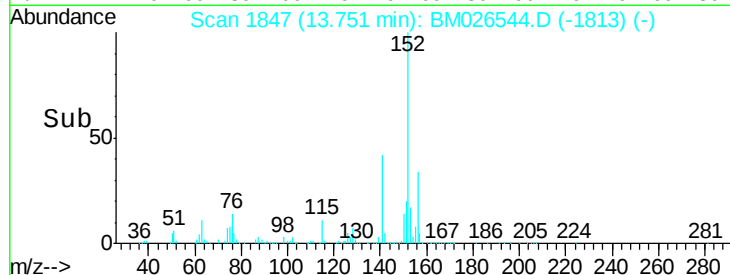
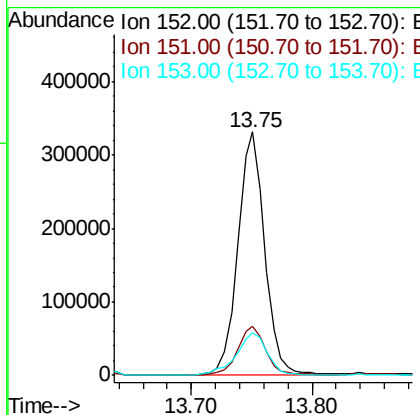
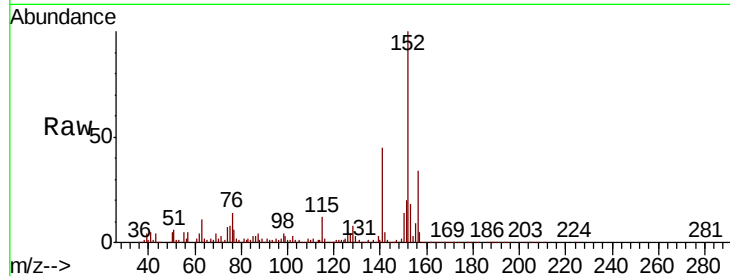
ClientSampleId :

ET161

Tot Ion:	152	Resp:	511948
Ion Ratio	Lower	Upper	
152	100		
151	20.4	15.4	23.2
153	17.6	10.4	15.6

Manual Integrations
APPROVED

mohammad
6/25/2020 1:05:38 PM



#50

Acenaphthene

Concen: 725.872 ng/ul

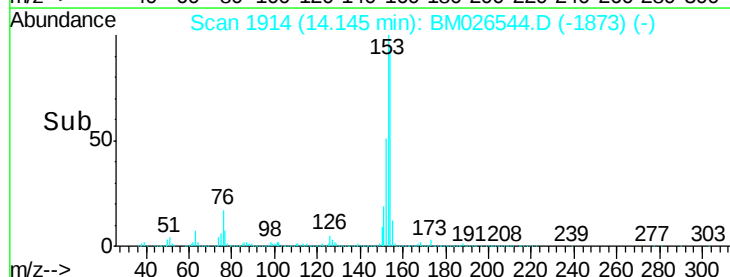
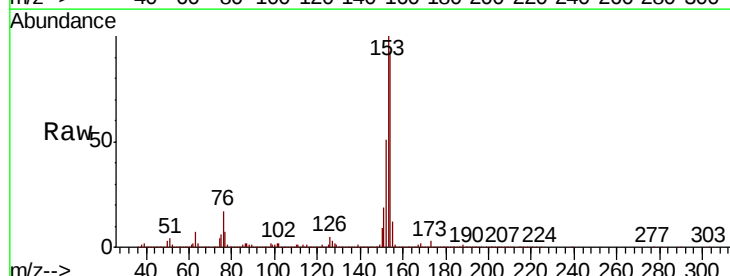
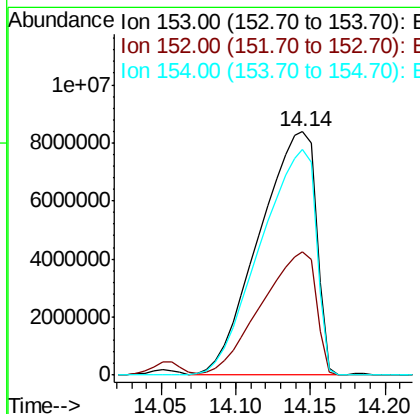
RT: 14.14 min Scan# 1914

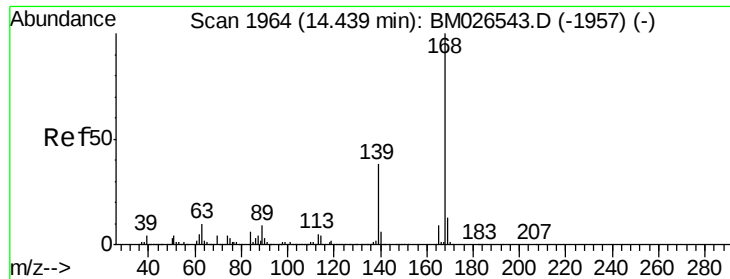
Delta R.T. 0.04 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

Tgt Ion:	153	Resp:	22265238
Ion Ratio	Lower	Upper	
153	100		
152	50.7	36.4	54.6
154	92.7	71.0	106.4





#54

Dibenzofuran

Concen: 447.322 ng/ul m

RT: 14.47 min Scan# 1969

Delta R.T. 0.02 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

Instrument :

BNA_M

ClientSampleId :

ET161

Tot Ion:168 Resp:19370936

Ion Ratio Lower Upper

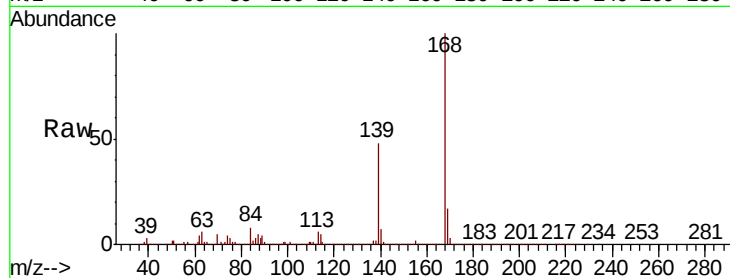
168 100

139 48.3 31.1 46.7#

Manual Integrations
APPROVED

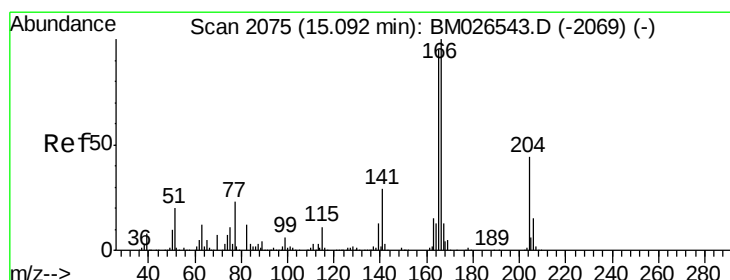
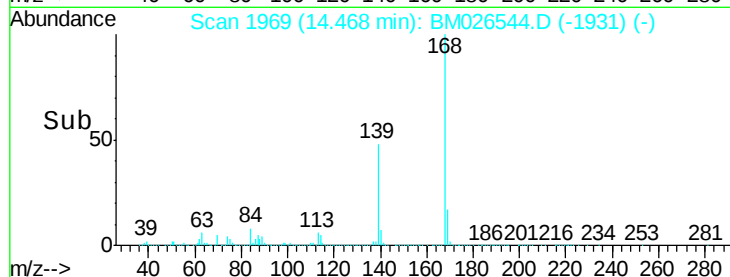
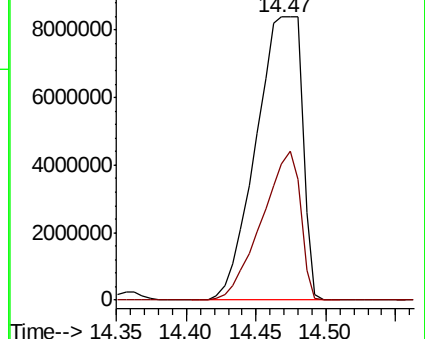
mohammad

6/25/2020 1:05:38 PM



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 484.008 ng/ul

RT: 15.13 min Scan# 2082

Delta R.T. 0.04 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

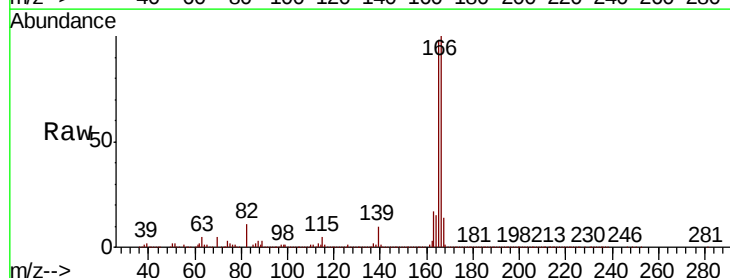
Tgt Ion:166 Resp:17300007

Ion Ratio Lower Upper

166 100

165 97.9 77.0 115.4

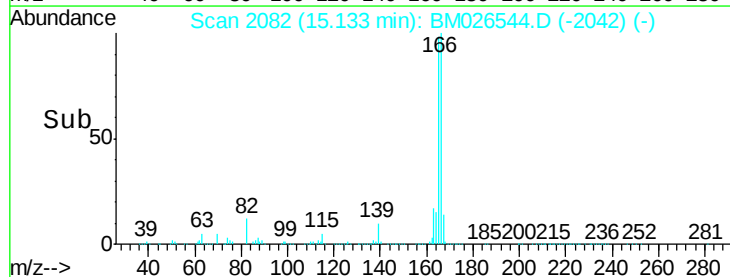
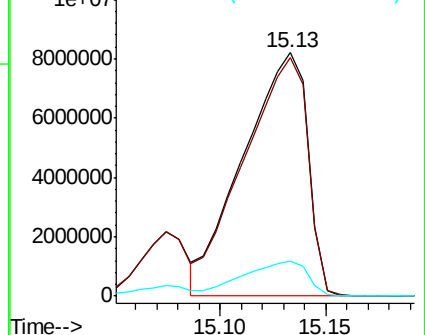
167 14.2 10.6 16.0

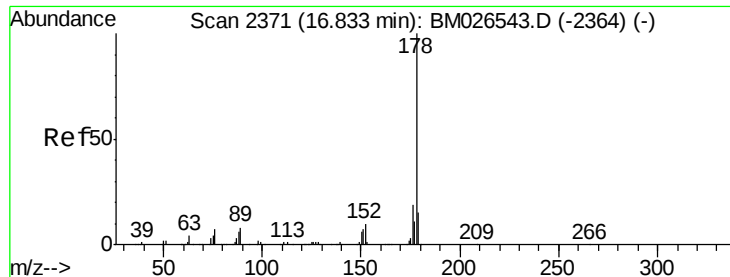


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 355.549 ng/ul m

RT: 16.86 min Scan# 2376

Delta R.T. 0.03 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

Instrument :

BNA_M

ClientSampled :

ET161

Tot Ion:178 Resp:16388855

Ion Ratio Lower Upper

178 100

179 18.6 12.4 18.6

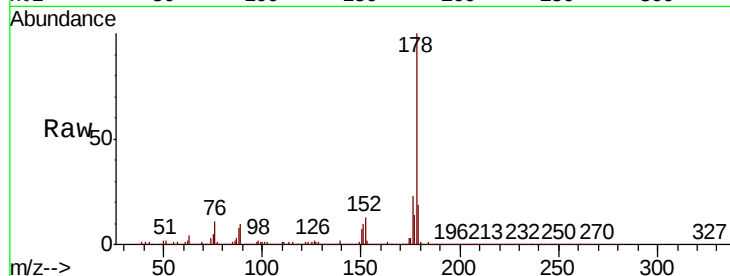
176 23.3 15.0 22.4#

Manual Integrations

APPROVED

mohammad

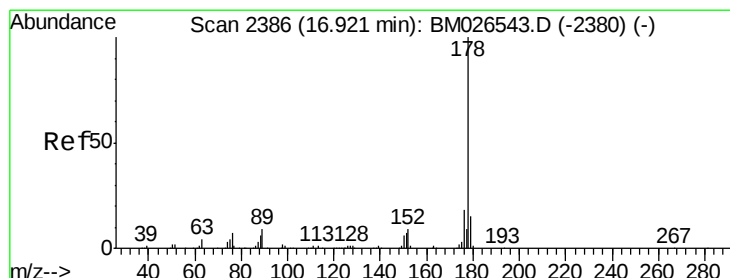
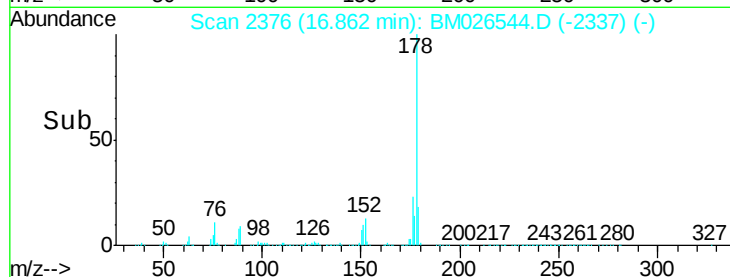
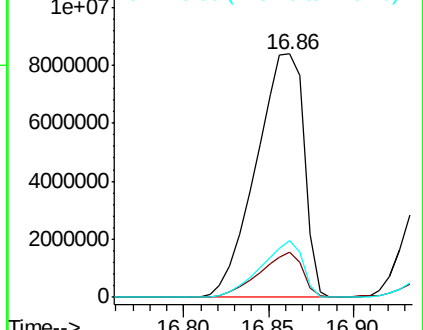
6/25/2020 1:05:38 PM



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



#72

Anthracene

Concen: 100.075 ng/ul

RT: 16.94 min Scan# 2389

Delta R.T. 0.01 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

Tgt Ion:178 Resp: 4728094

Ion Ratio Lower Upper

178 100

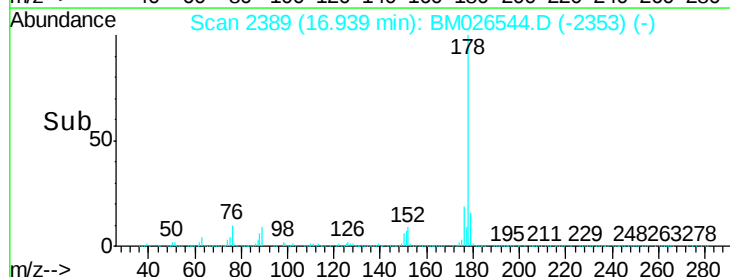
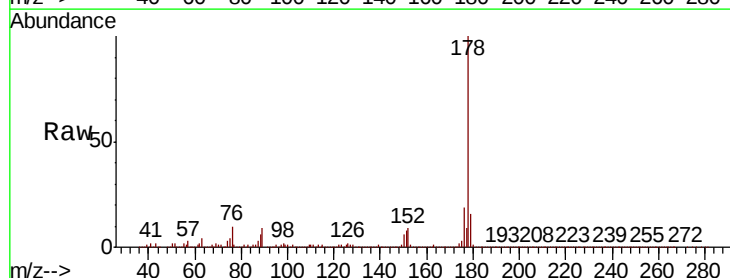
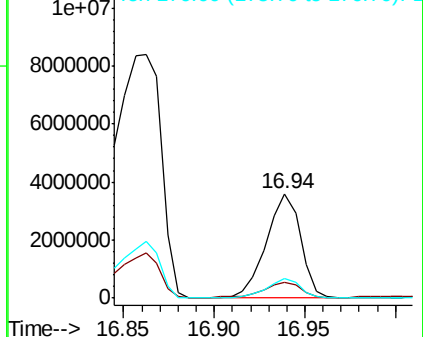
179 15.7 12.2 18.4

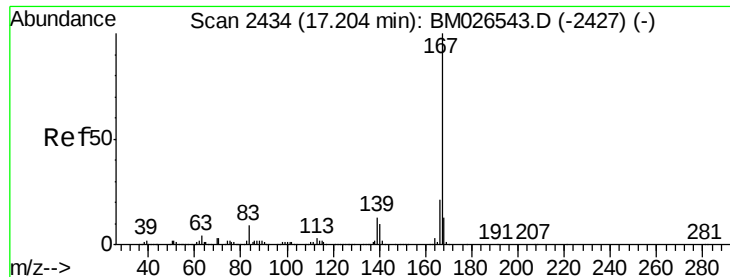
176 18.5 14.3 21.5

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





#75

Carbazole

Concen: 5.470 ng/ul

RT: 17.20 min Scan# 2434

Delta R.T. -0.01 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

Instrument :

BNA_M

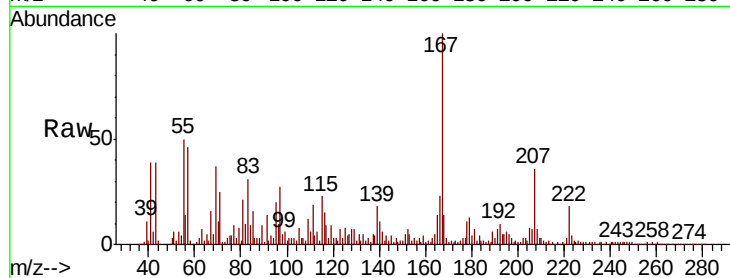
ClientSampleId :

ET161

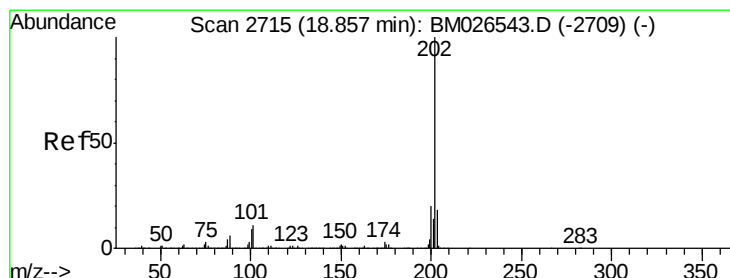
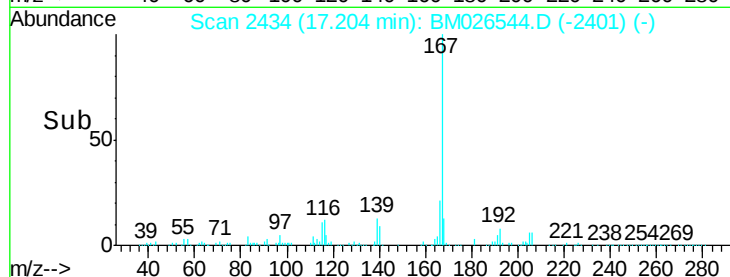
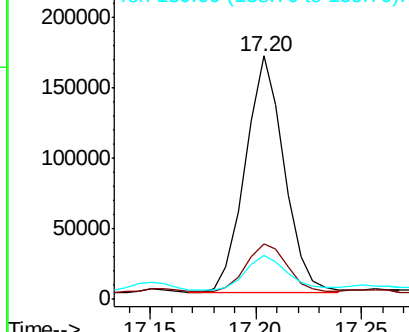
Tot Ion:	167	Resp:	214735
Ion Ratio	Lower	Upper	
167	100		
166	23.0	16.8	25.2
139	18.1	10.5	15.7#

Manual Integrations
APPROVED

mohammad
6/25/2020 1:05:38 PM



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



#77

Fluoranthene

Concen: 189.984 ng/ul

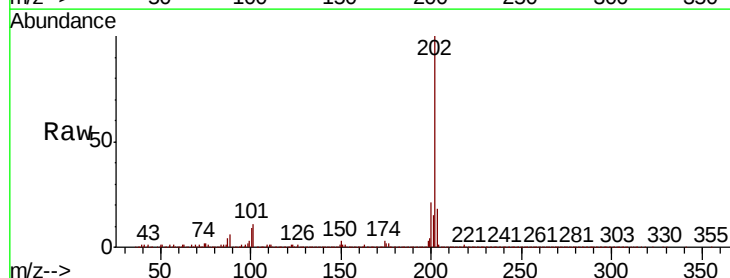
RT: 18.88 min Scan# 2719

Delta R.T. 0.02 min

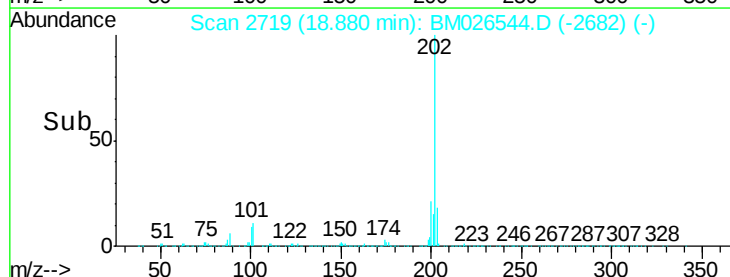
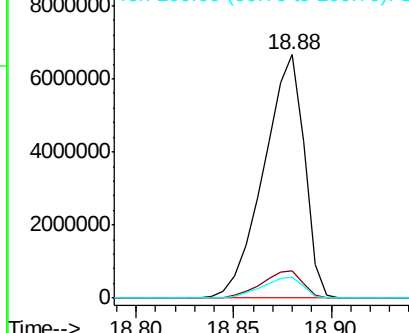
Lab File: BM026544.D

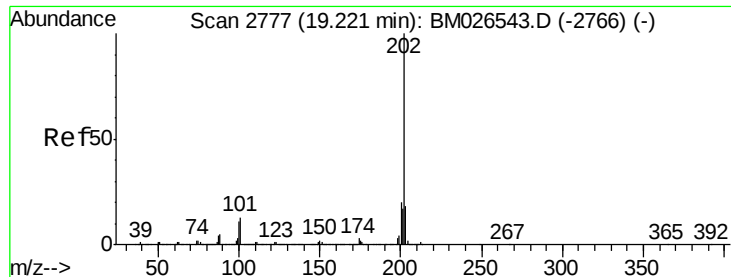
Acq: 25 Jun 2020 01:14

Tgt Ion:	202	Resp:	9567253
Ion Ratio	Lower	Upper	
202	100		
101	11.4	8.6	12.8
100	8.7	6.8	10.2



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





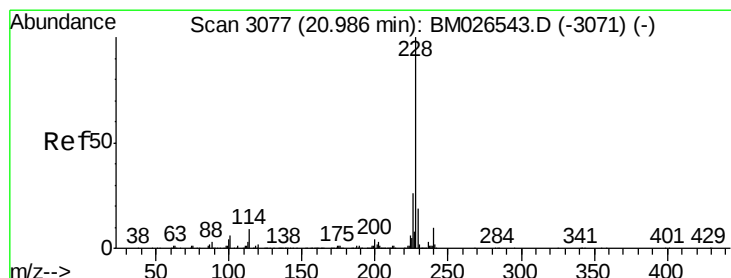
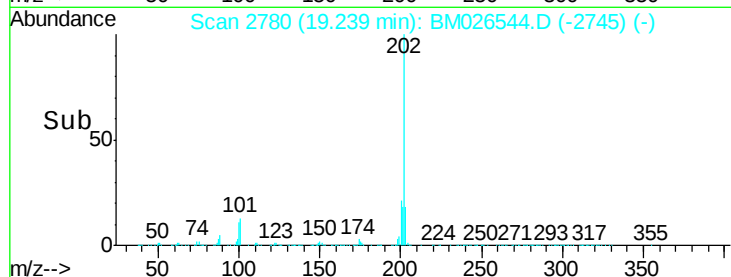
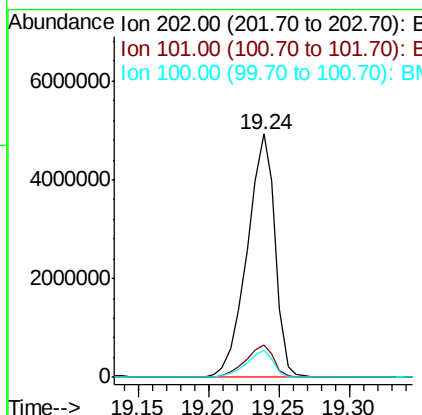
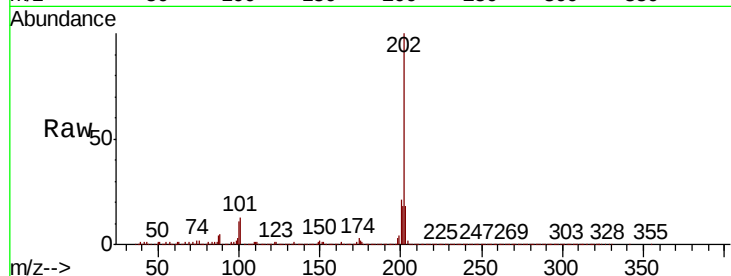
#80
Pvrene
Concen: 115.983 ng/ul
RT: 19.24 min Scan# 2780
Delta R.T. 0.01 min
Lab File: BM026544.D
Acq: 25 Jun 2020 01:14

Instrument :
BNA_M
ClientSampleId :
ET161

Tot Ion	Ratio	Lower	Upper
202	100		
101	13.2	10.9	16.3
100	11.2	9.0	13.6

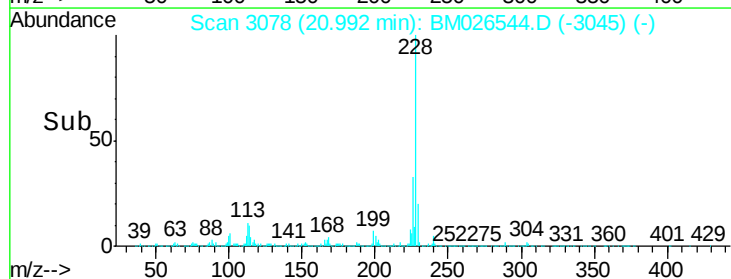
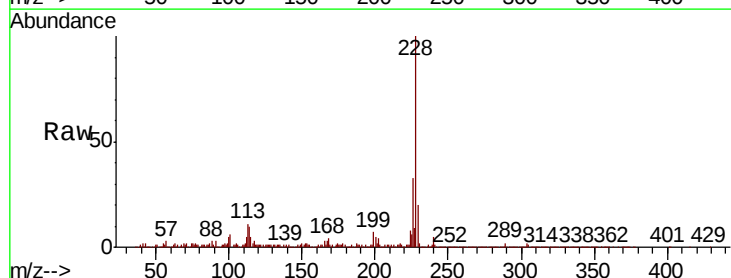
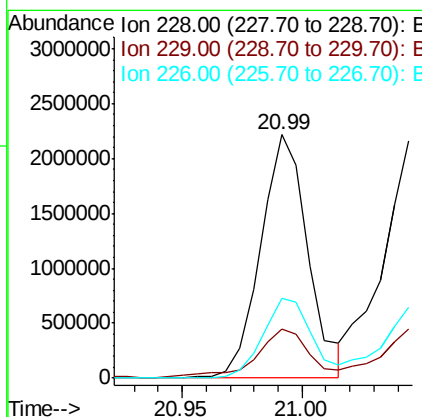
Manual Integrations
APPROVED

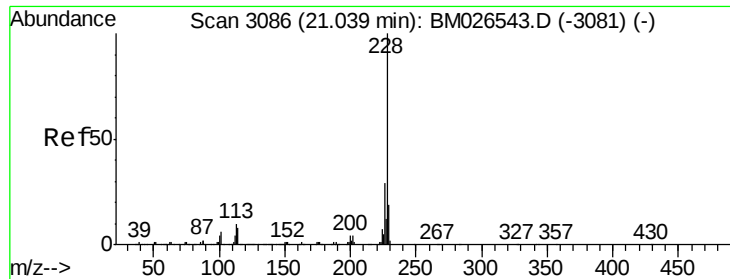
mohammad
6/25/2020 1:05:38 PM



#83
Benzo(a)anthracene
Concen: 53.625 ng/ul m
RT: 20.99 min Scan# 3078
Delta R.T. -0.01 min
Lab File: BM026544.D
Acq: 25 Jun 2020 01:14

Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.2	15.4	23.2
226	32.7	21.0	31.4





#85

Chrysene

Concen: 51.739 ng/ul

RT: 21.04 min Scan# 3087

Delta R.T. -0.00 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

Instrument :

BNA_M

ClientSampled :

ET161

Tot Ion:228 Resp: 2848684

Ion Ratio Lower Upper

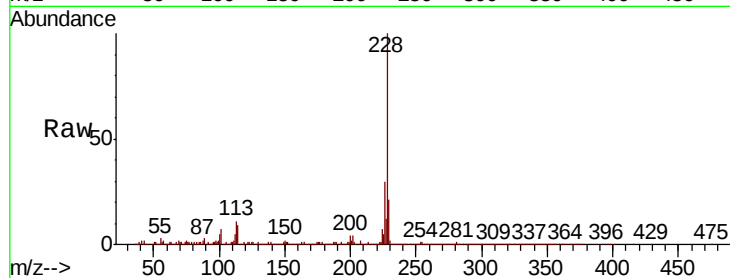
228 100

226 30.1 23.7 35.5

229 20.7 15.5 23.3

Manual Integrations
APPROVED

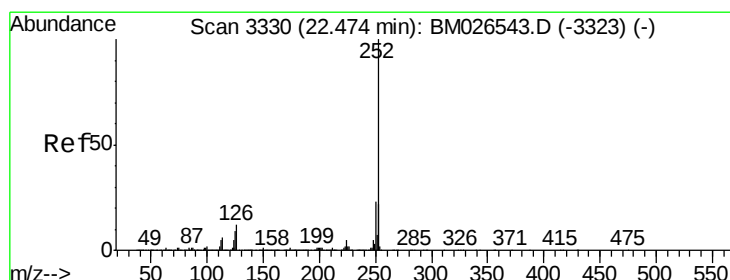
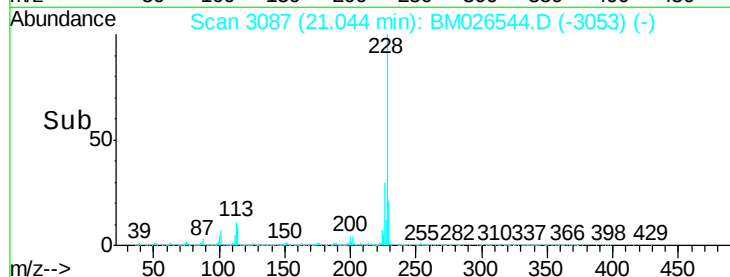
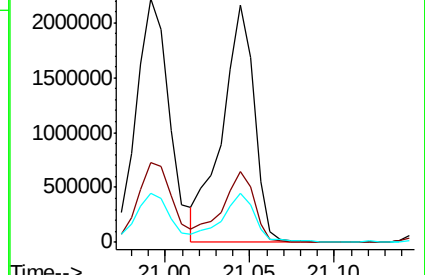
mohammad
6/25/2020 1:05:38 PM



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



#88

Benzo(b)fluoranthene

Concen: 74.457 ng/ul

RT: 22.49 min Scan# 3333

Delta R.T. 0.01 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

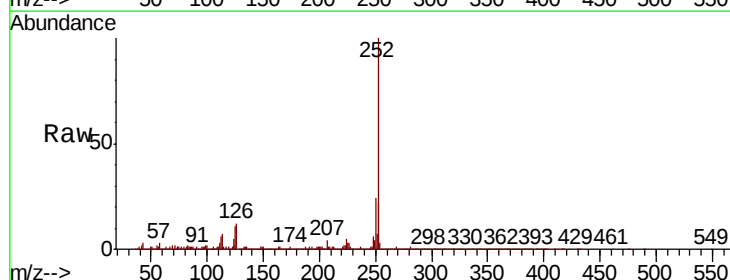
Tgt Ion:252 Resp: 3289647

Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

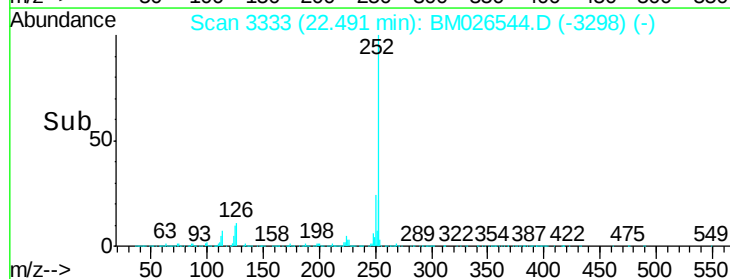
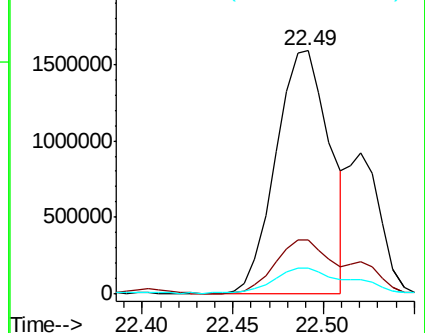
125 10.6 7.4 11.2

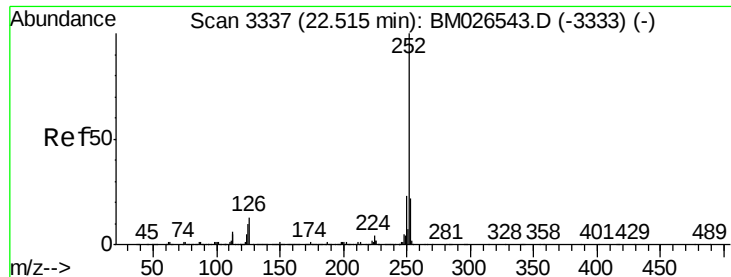


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





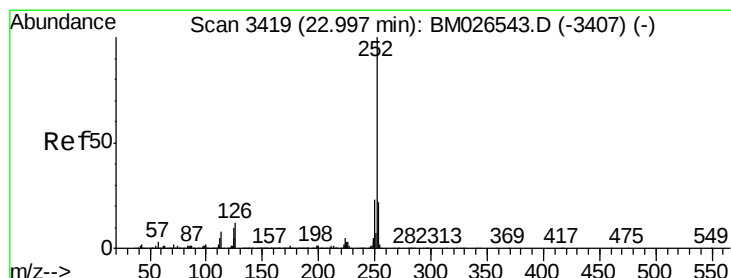
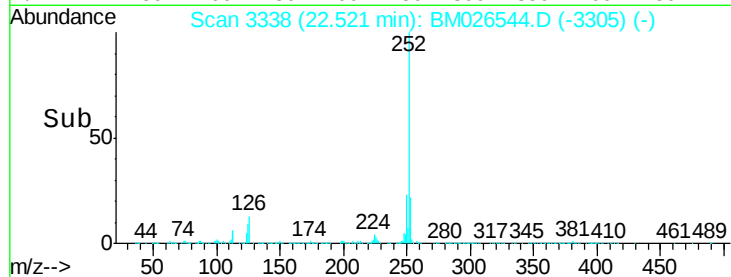
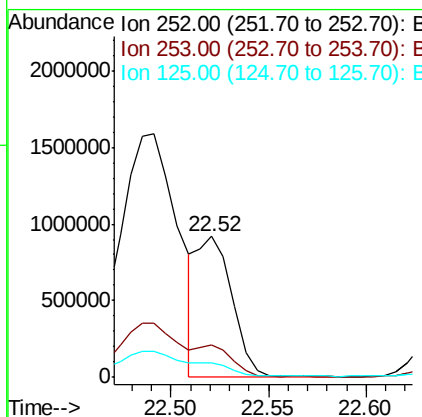
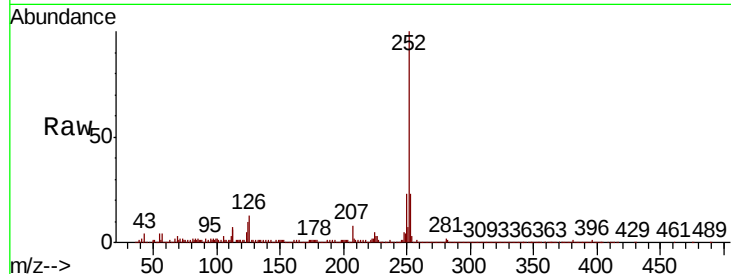
#89
Benzo(k)fluoranthene
Concen: 26.677 ng/ul
RT: 22.52 min Scan# 3338
Delta R.T. -0.01 min
Lab File: BM026544.D
Acq: 25 Jun 2020 01:14

Instrument :
BNA_M
ClientSampleId :
ET161

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	10.3	8.2	12.2

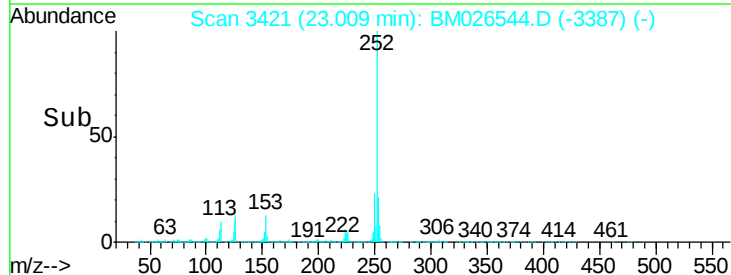
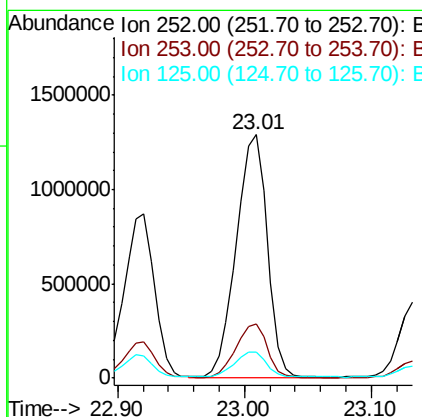
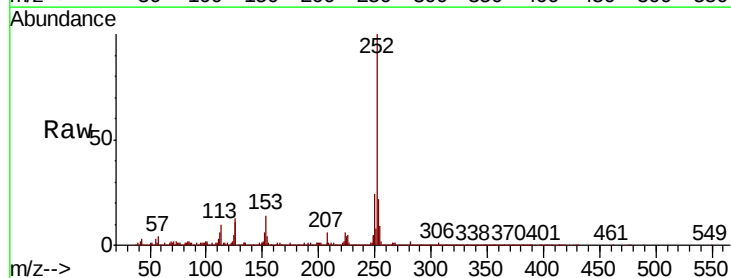
Manual Integrations
APPROVED

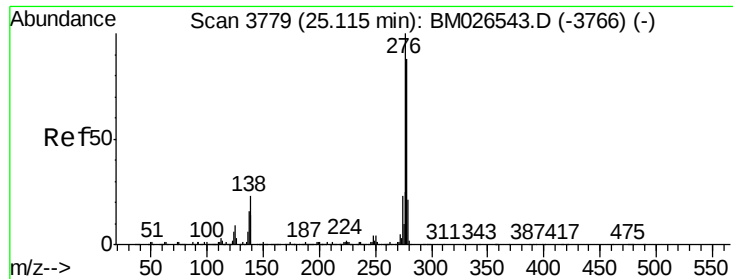
mohammad
6/25/2020 1:05:38 PM



#91
Benzo(a)pyrene
Concen: 56.011 ng/ul
RT: 23.01 min Scan# 3421
Delta R.T. -0.00 min
Lab File: BM026544.D
Acq: 25 Jun 2020 01:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.2	25.8
125	10.7	8.7	13.1





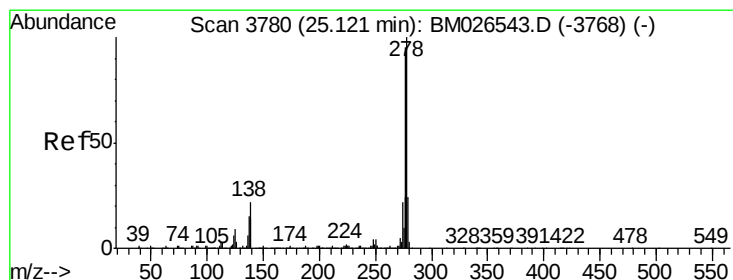
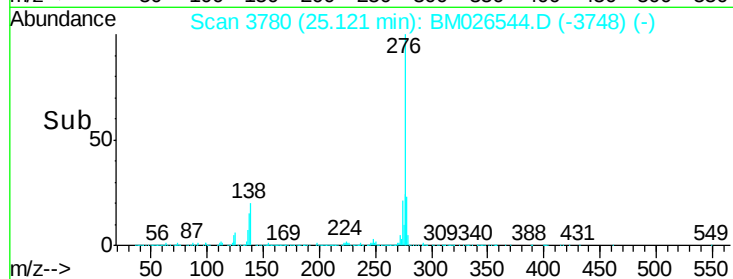
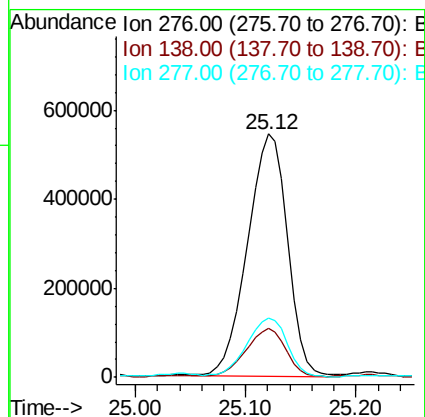
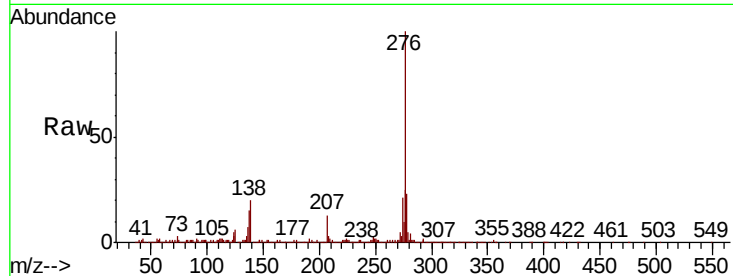
#92
Indeno(1,2,3-cd)pyrene
Concen: 27.173 ng/ul
RT: 25.12 min Scan# 3780
Delta R.T. -0.01 min
Lab File: BM026544.D
Acq: 25 Jun 2020 01:14

Instrument :
BNA_M
ClientSampleId :
ET161

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.2	18.3	27.5
277	24.6	19.3	28.9

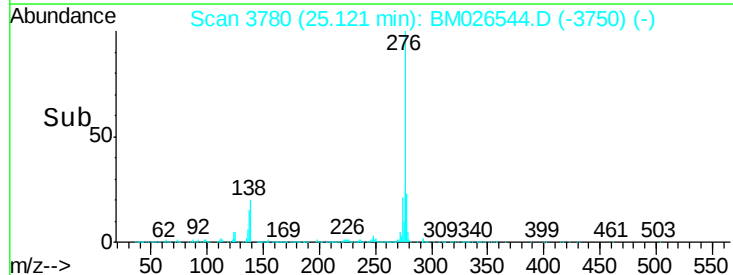
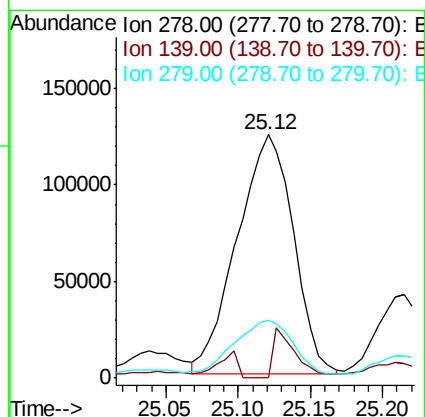
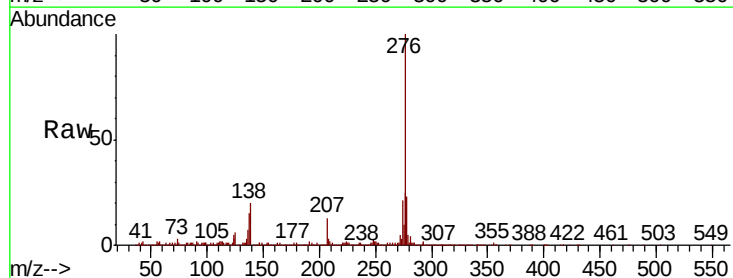
Manual Integrations
APPROVED

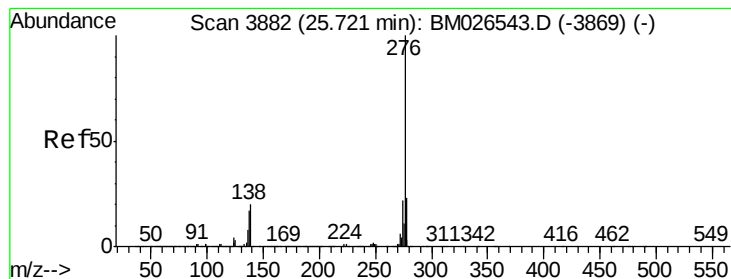
mohammad
6/25/2020 1:05:38 PM



#93
Dibenzo(a,h)anthracene
Concen: 7.871 ng/ul m
RT: 25.12 min Scan# 3780
Delta R.T. -0.02 min
Lab File: BM026544.D
Acq: 25 Jun 2020 01:14

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	11.8	17.8#
279	23.8	18.4	27.6





#94

Benzo(a,h,i)perylene

Concen: 28.621 ng/ul

RT: 25.74 min Scan# 3885

Delta R.T. -0.01 min

Lab File: BM026544.D

Acq: 25 Jun 2020 01:14

Instrument :

BNA_M

ClientSampleId :

ET161

Tot Ion: 276 Resp: 1219742

Ion Ratio Lower Upper

276 100

138 19.9 15.8 23.8

277 24.5 19.8 29.8

Manual Integrations

APPROVED

mohammad

6/25/2020 1:05:38 PM

