

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022816\
 Data File : BM004453.D
 Acq On : 28 Feb 2016 16:42
 Operator : SJ/UM
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC0.2

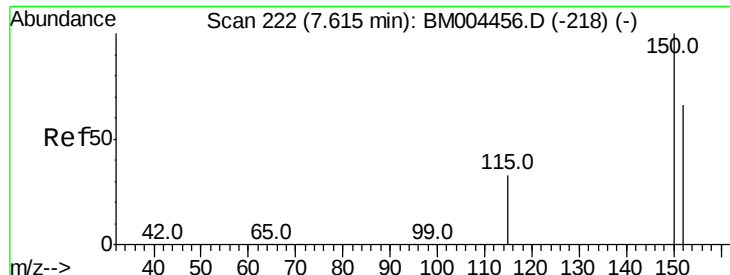
Manual Integrations
 APPROVED

UMANGI
 2/29/2016 2:48:44 PM

Quant Time: Feb 29 03:22:00 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM022816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 29 02:56:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	14897	5.00	ng	0.00
7) Naphthalene-d8	10.38	136	51507	5.00	ng	0.00
12) Acenaphthene-d10	14.25	164	30590	5.00	ng	0.00
15) Phenanthrene-d10	17.03	188	48705	5.00	ng	0.00
19) Chrysene-d12	21.24	240	64946	5.00	ng	0.00
28) Perylene-d12	23.47	264	50118	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	835	0.27	ng	0.00
5) Phenol-d6	6.83	99	871	0.23	ng	0.00
8) Nitrobenzene-d5	8.79	82	700	0.30	ng	0.00
13) 2,4,6-Tribromophenol	15.78	330	281	0.31	ng	0.00
14) 2-Fluorobiphenyl	12.89	172	2594	0.28	ng	0.00
22) Terphenyl-d14	19.68	244	2238	0.27	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.10	88	362	0.23	ng	# 78
3) n-Nitrosodimethylamine	3.43	42	263	0.20	ng	# 99
6) bis(2-Chloroethyl)ether	7.04	93	795	0.23	ng	# 98
9) Nitrobenzene	8.81	77	780	0.30	ng	# 99
10) Hexachlorobutadiene	10.74	225	564	0.30	ng	# 99
11) 2-Methylnaphthalene	12.07	142	2137	0.27	ng	# 94
16) Hexachlorobenzene	16.35	284	793	0.45	ng	# 100
17) Pentachlorophenol	16.72	266	233	0.51	ng	# 94
18) Fluoranthene	19.10	202	5049	0.37	ng	# 98
20) Benzidine	19.34	184	308	0.10	ng	# 1
21) Pyrene	19.48	202	5220	0.28	ng	# 99
23) Benzo(a)anthracene	21.22	228	4716m	0.24	ng	# 92
24) 3,3'-Dichlorobenzidine	21.17	252	1498	0.32	ng	# 92
25) Chrysene	21.29	228	9486m	0.53	ng	# 97
26) Bis(2-ethylhexyl)phthalate	21.14	149	3542	0.43	ng	# 100
27) Indeno(1,2,3-cd)pyrene	25.71	276	4526	0.24	ng	# 88
29) Benzo(b)fluoranthene	22.80	252	4997	0.31	ng	# 88
30) Benzo(k)fluoranthene	22.85	252	4507	0.32	ng	# 83
31) Benzo(a)pyrene	23.37	252	3844	0.28	ng	# 88
32) Dibenzo(a,h)anthracene	25.72	278	3559	0.29	ng	# 89
33) Benzo(g,h,i)perylene	26.40	276	3918	0.29	ng	# 89

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.61 min Scan# 222

Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Instrument :

BNA_M

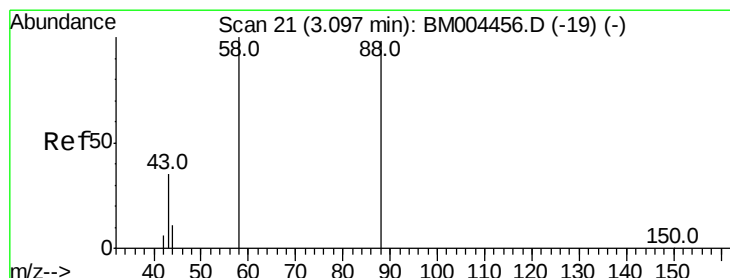
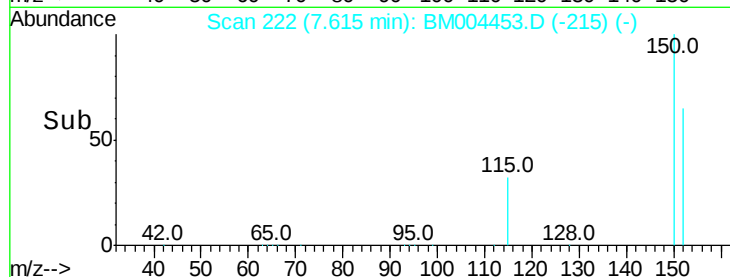
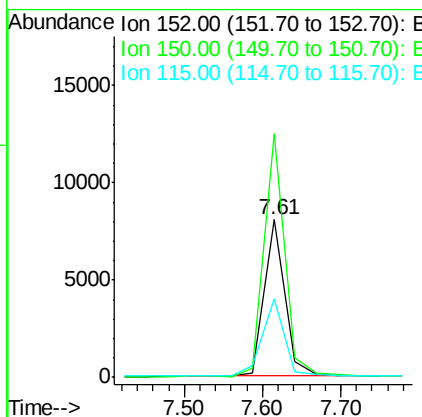
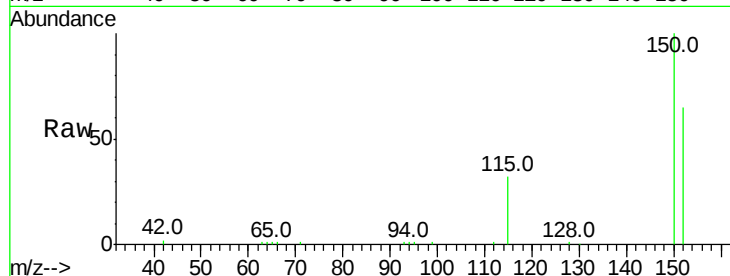
ClientSampleId :

SSTDIC0.2

Tot Ion:	152	Resp:	14897
Ion	Ratio	Lower	Upper
152	100		
150	154.6	123.9	185.9
115	50.3	40.6	61.0

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:44 PM



#2

1,4-Dioxane

Concen: 0.23 ng

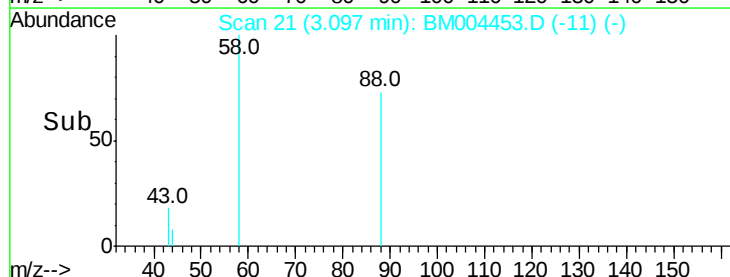
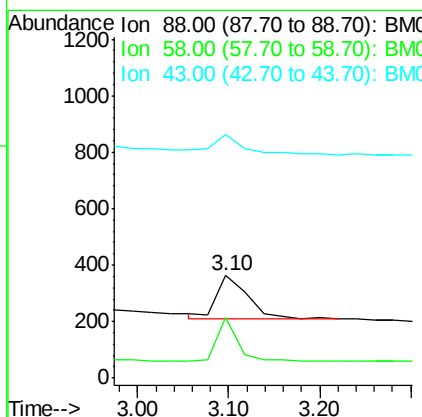
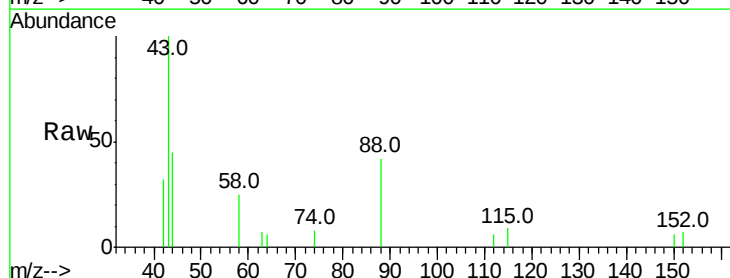
RT: 3.10 min Scan# 21

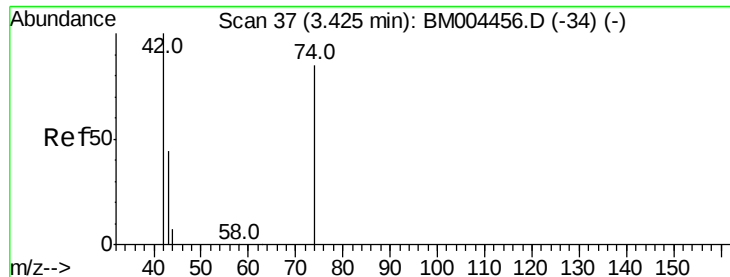
Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Tgt Ion:	88	Resp:	362
Ion	Ratio	Lower	Upper
88	100		
58	62.4	58.5	87.7
43	52.8	22.2	33.2#





#3

n-Nitrosodimethylamine

Concen: 0.20 ng

RT: 3.43 min Scan# 37

Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Instrument :

BNA_M

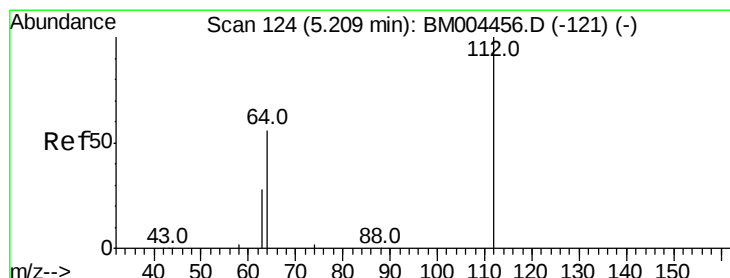
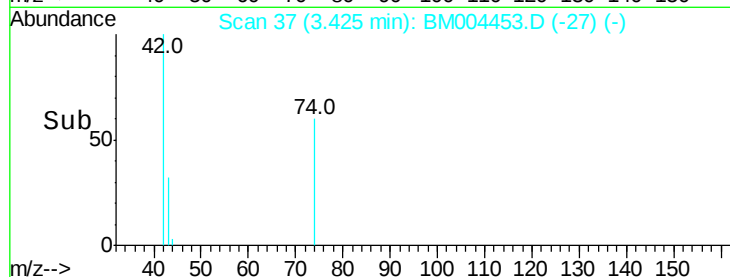
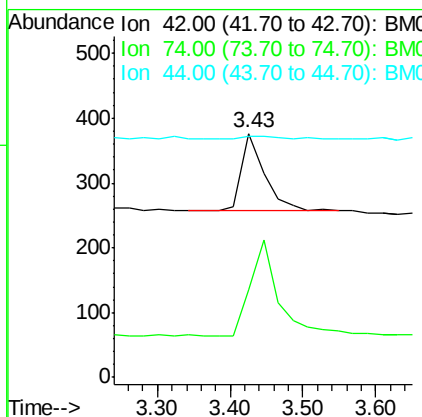
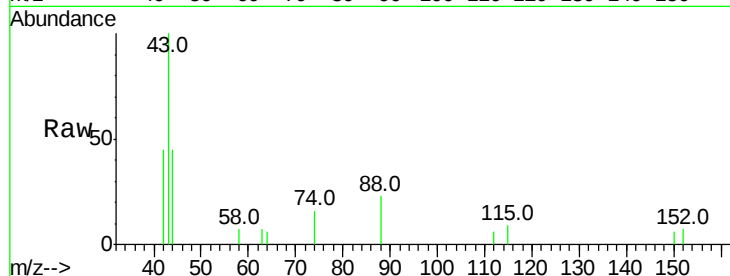
ClientSampleId :

SSTDIC0.2

Tot Ion:	42	Resp:	263
Ion	Ratio	Lower	Upper
42	100		
74	0.0	0.0	0.0
44	7.6	5.8	8.6

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:44 PM



#4

2-Fluorophenol

Concen: 0.27 ng

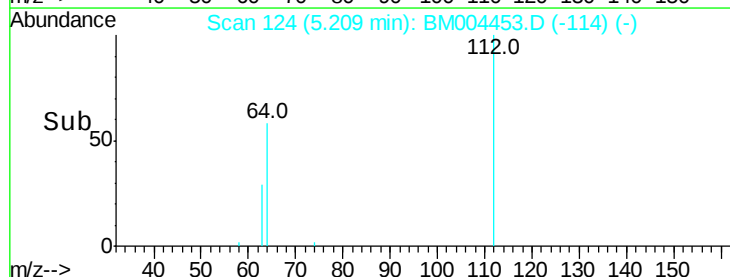
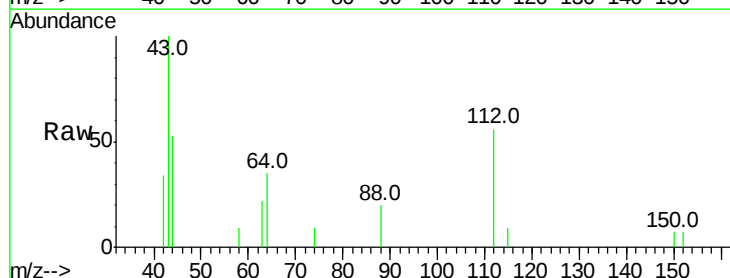
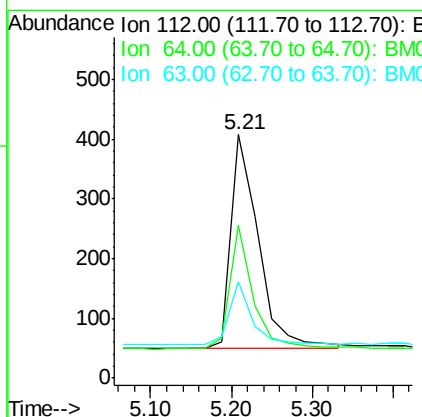
RT: 5.21 min Scan# 124

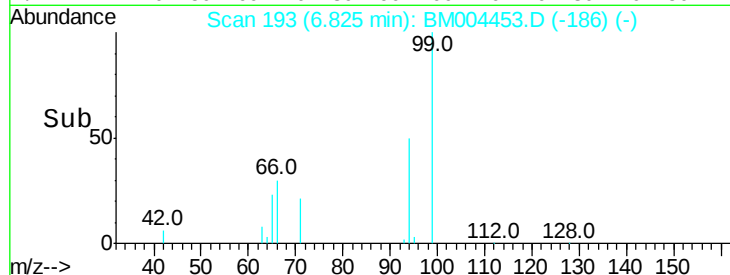
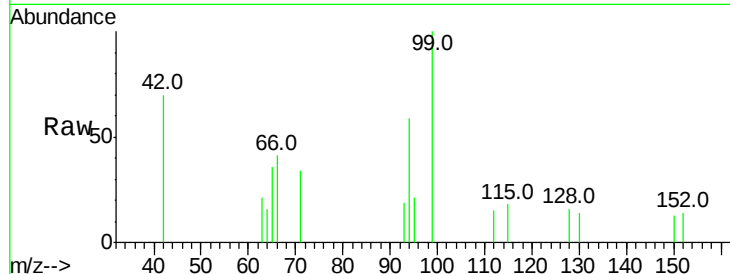
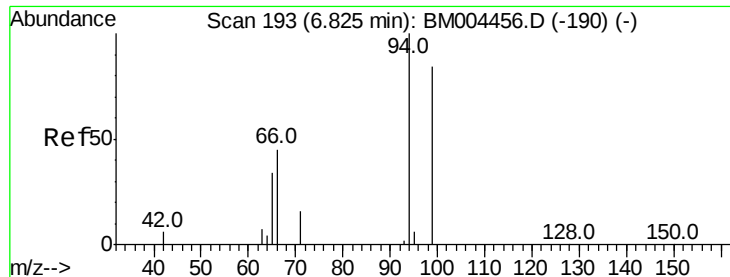
Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Tgt Ion:	112	Resp:	835
Ion	Ratio	Lower	Upper
112	100		
64	50.5	39.4	59.2
63	25.6	19.9	29.9





#5

Phenol-d6

Concen: 0.23 ng

RT: 6.83 min Scan# 193

Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Tot Ion:	99	Resp:	871
Ion	Ratio	Lower	Upper
99	100		
42	0.0	0.0	0.0
71	0.0	0.0	0.0

Instrument :

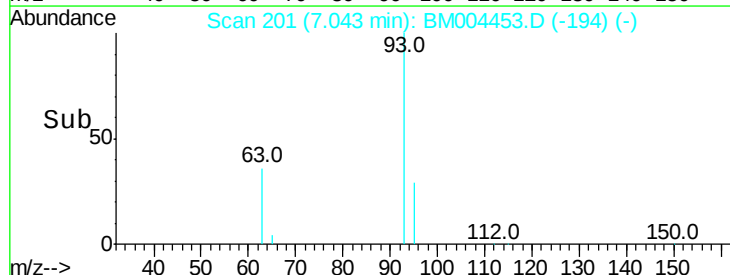
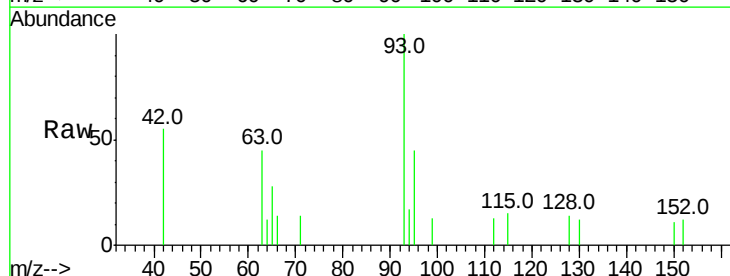
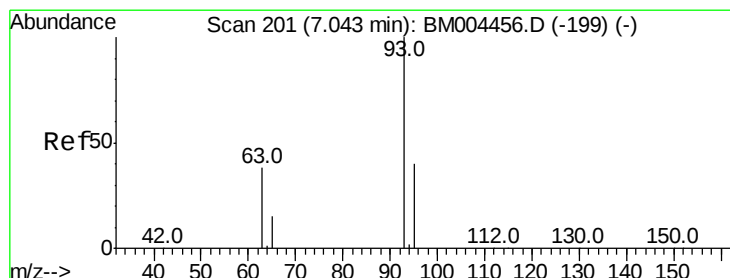
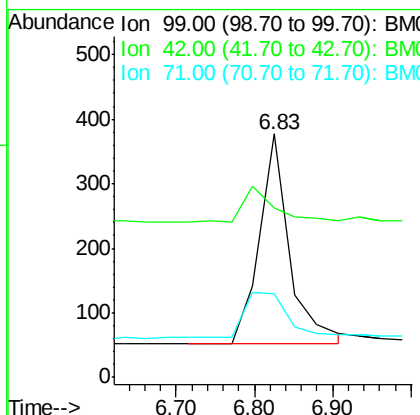
BNA_M

ClientSampleId :

SSTDIC0.2

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:44 PM



#6

bis(2-Chloroethyl)ether

Concen: 0.23 ng

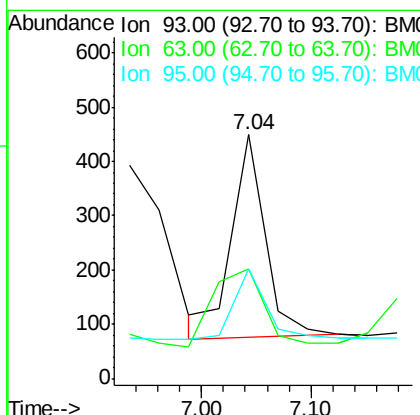
RT: 7.04 min Scan# 201

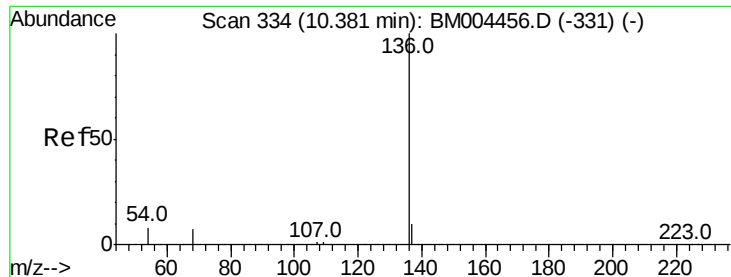
Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Tgt Ion:	93	Resp:	795
Ion	Ratio	Lower	Upper
93	100		
63	64.2	0.0	0.0#
95	32.8	27.1	40.7





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.38 min Scan# 334

Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Instrument :

BNA_M

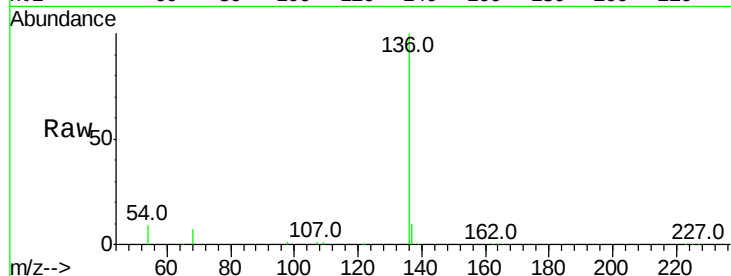
ClientSampleId :

SSTDIC0.2

Tot Ion	Ratio	Resp	Lower	Upper
136	100	51507		
137	10.1		8.0	12.0
54	8.7		7.0	10.6
68	7.1		5.8	8.6

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:44 PM

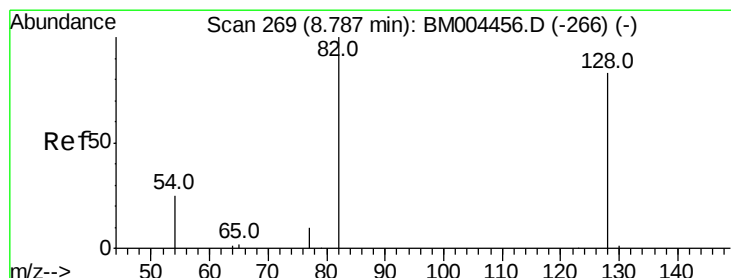
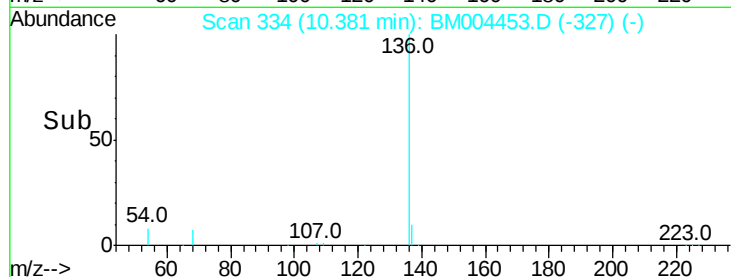
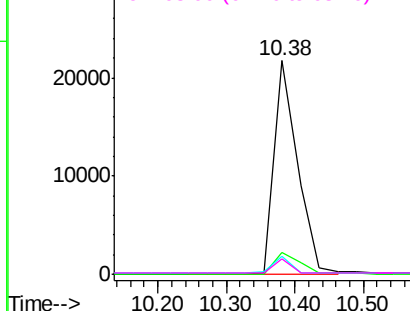


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#8

Nitrobenzene-d5

Concen: 0.30 ng

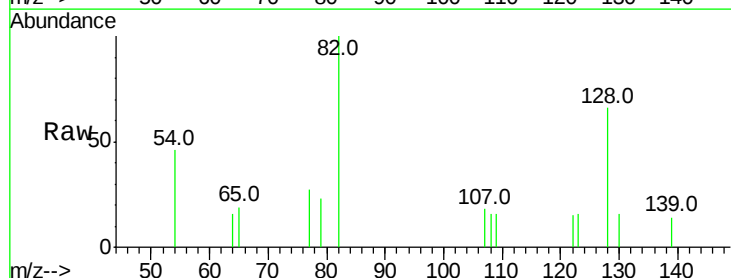
RT: 8.79 min Scan# 269

Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

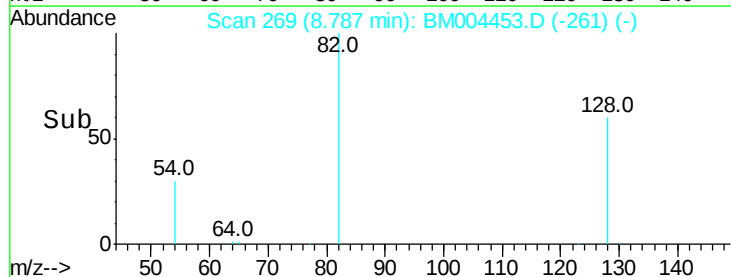
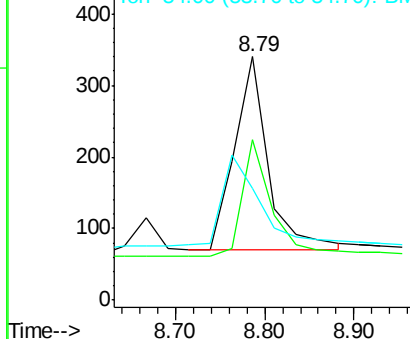
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	700		
128	65.9		67.0	100.6#
54	46.2		25.2	37.8#

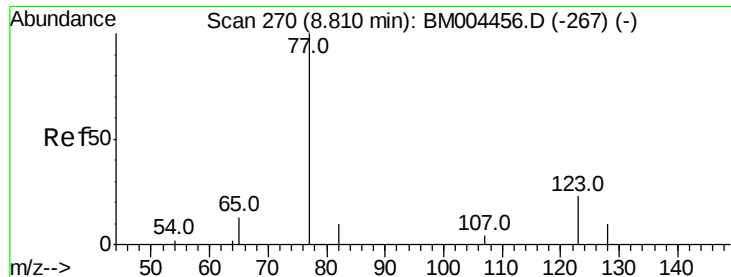


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#9

Nitrobenzene

Concen: 0.30 ng

RT: 8.81 min Scan# 270

Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Instrument :

BNA_M

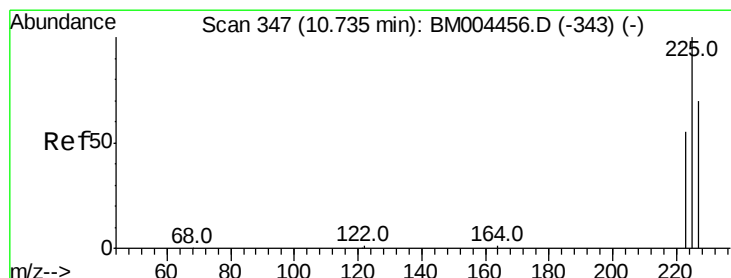
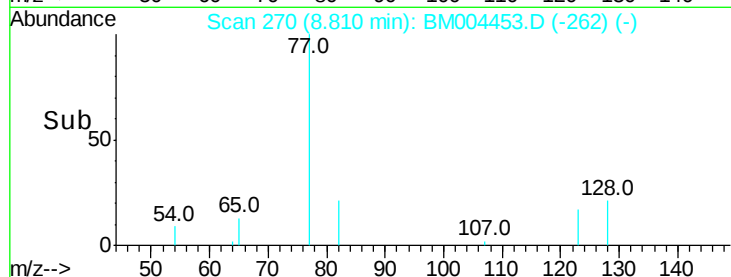
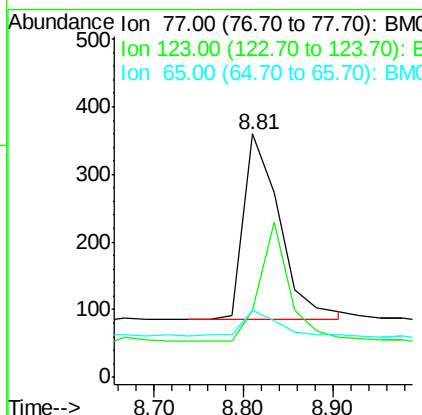
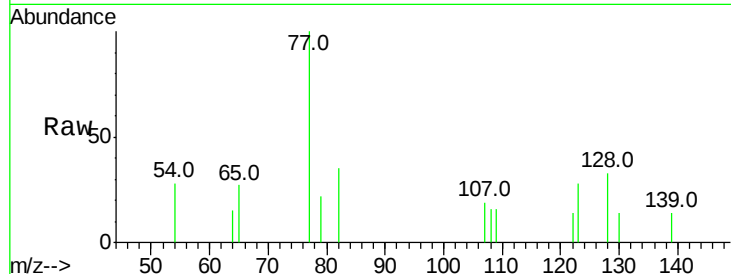
ClientSampleId :

SSTDIC0.2

Tot Ion:	77	Resp:	780
Ion	Ratio	Lower	Upper
77	100		
123	0.0	0.0	0.0
65	12.8	10.1	15.1

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:44 PM



#10

Hexachlorobutadiene

Concen: 0.30 ng

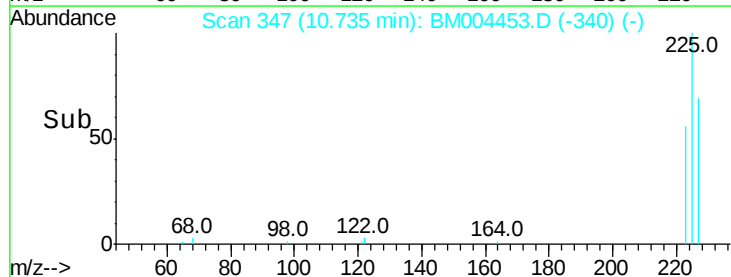
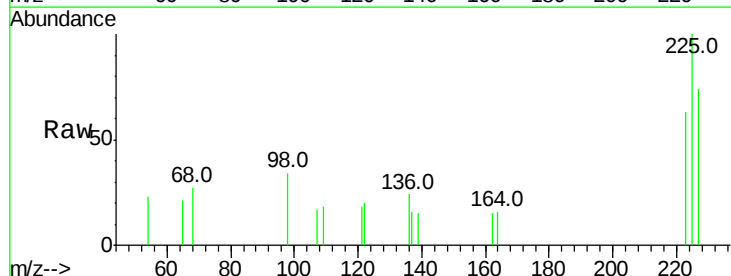
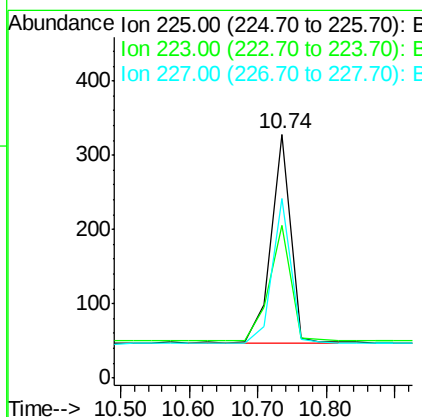
RT: 10.74 min Scan# 347

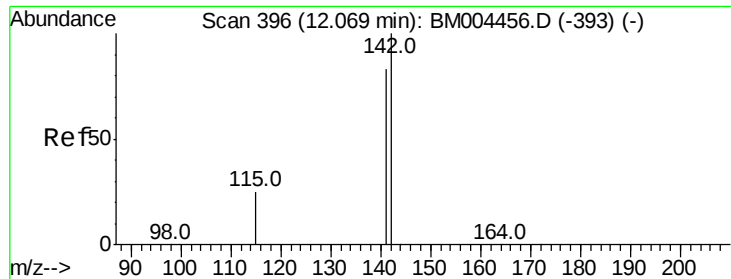
Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Tgt Ion:	225	Resp:	564
Ion	Ratio	Lower	Upper
225	100		
223	60.8	48.4	72.6
227	64.9	52.8	79.2





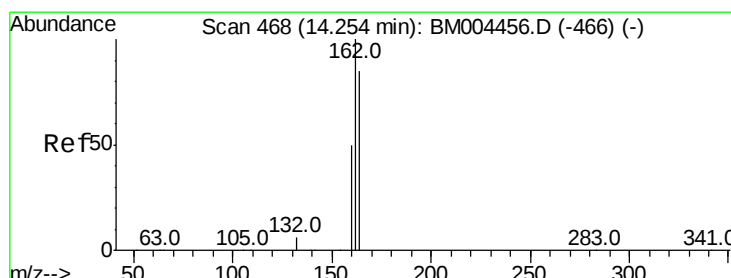
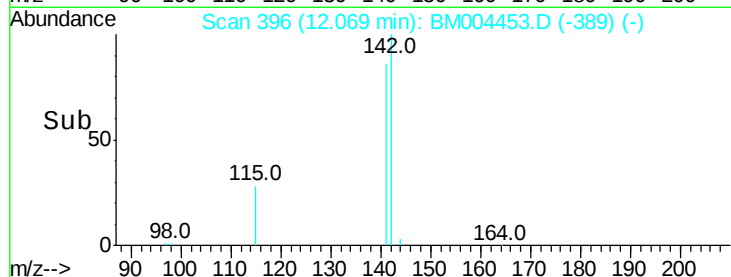
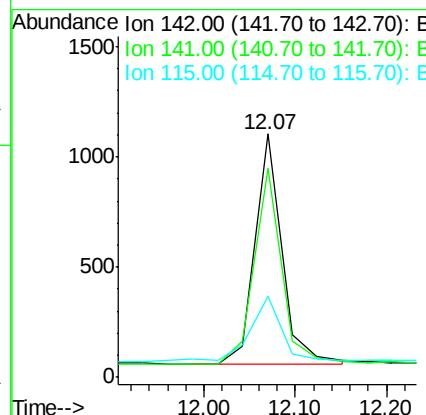
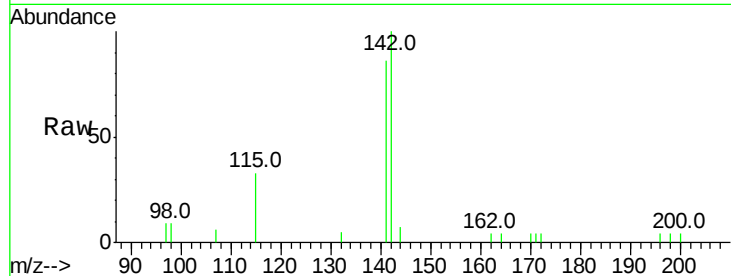
#11
2-Methylnaphthalene
Concen: 0.27 ng
RT: 12.07 min Scan# 396
Delta R.T. -0.00 min
Lab File: BM004453.D
Acq: 28 Feb 2016 16:42

Instrument :
BNA_M
ClientSampleId :
SSTDIC0.2

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.1	66.4	99.6
115	33.2	21.6	32.4

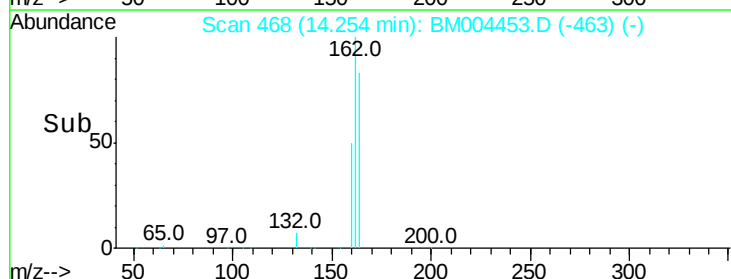
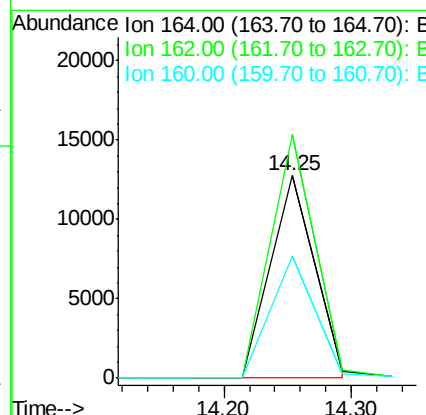
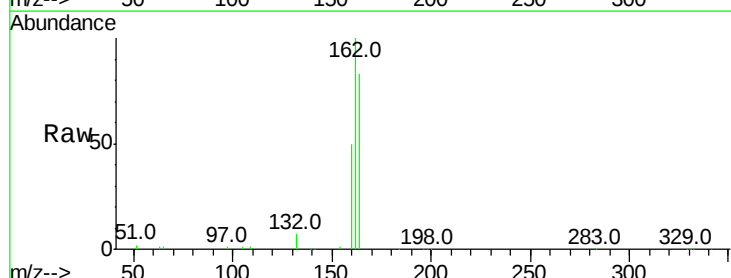
Manual Integrations
APPROVED

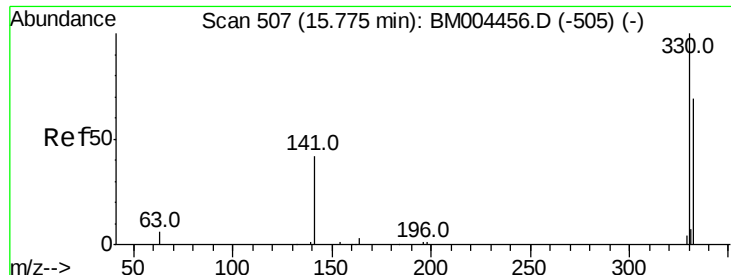
UMANGI
2/29/2016 2:48:44 PM



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.25 min Scan# 468
Delta R.T. -0.00 min
Lab File: BM004453.D
Acq: 28 Feb 2016 16:42

Tgt Ion	Ratio	Lower	Upper
164	100		
162	120.4	94.6	141.8
160	60.4	47.0	70.4





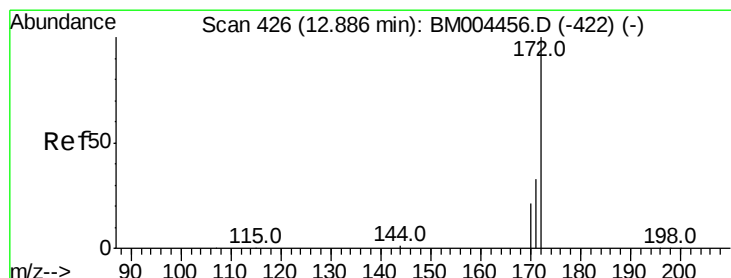
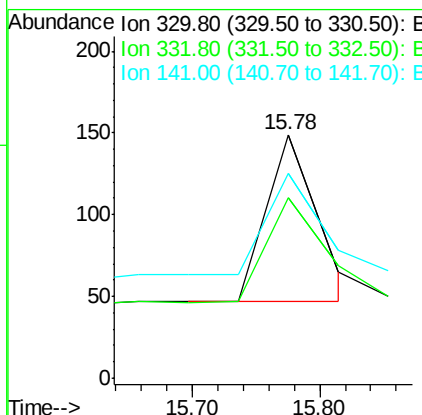
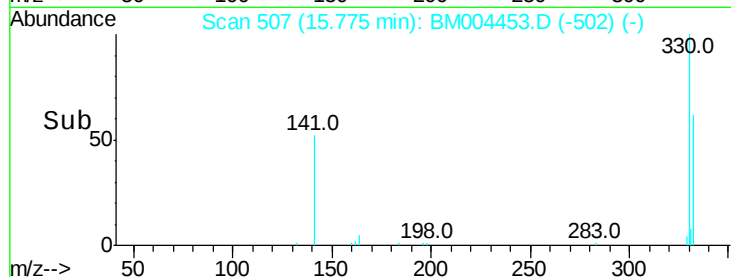
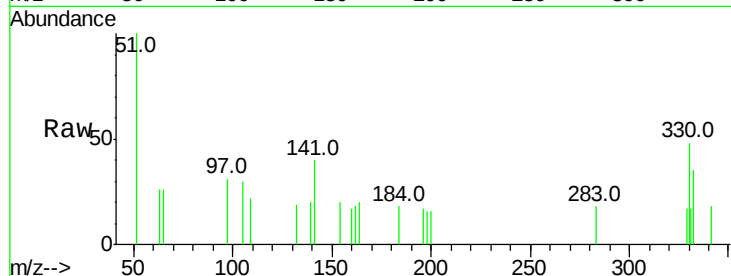
#13
 2,4,6-Tribromophenol
 Concen: 0.31 ng
 RT: 15.78 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: BM004453.D
 Acq: 28 Feb 2016 16:42

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC0.2

Tot Ion	Ratio	Lower	Upper
330	100		
332	73.3	59.2	88.8
141	64.1	33.0	49.4

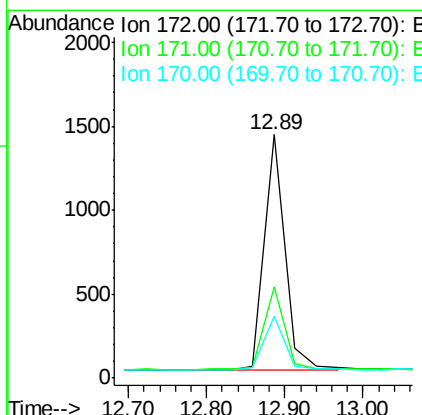
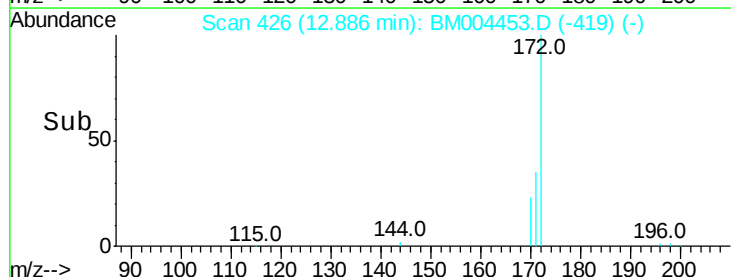
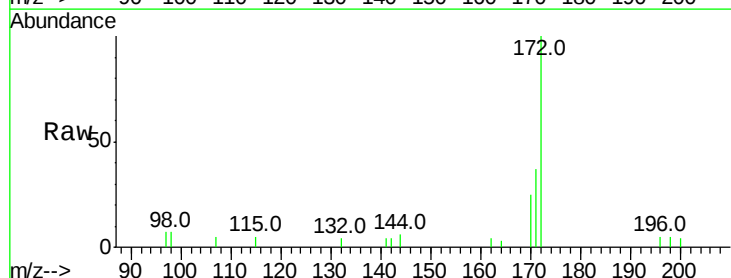
Manual Integrations
 APPROVED

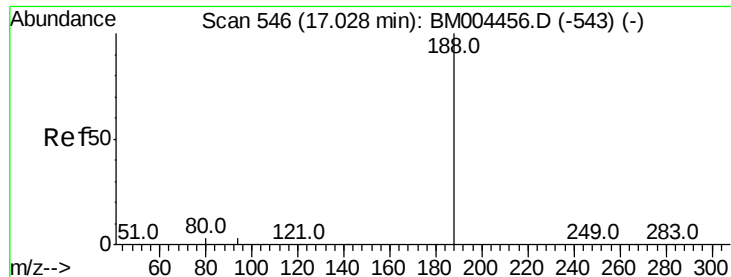
UMANGI
 2/29/2016 2:48:44 PM



#14
 2-Fluorobiphenyl
 Concen: 0.28 ng
 RT: 12.89 min Scan# 426
 Delta R.T. 0.00 min
 Lab File: BM004453.D
 Acq: 28 Feb 2016 16:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.3	27.2	40.8
170	25.2	17.4	26.0





#15

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.03 min Scan# 546

Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Instrument :

BNA_M

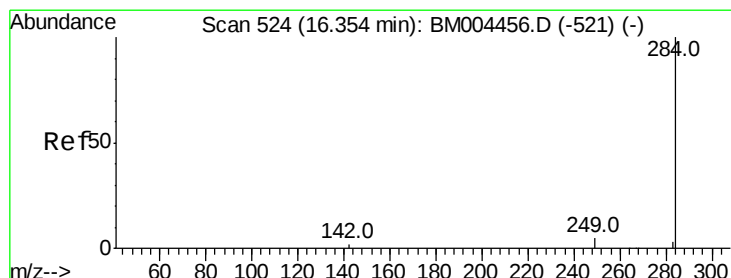
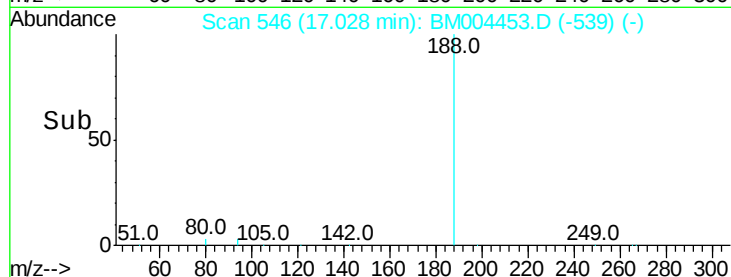
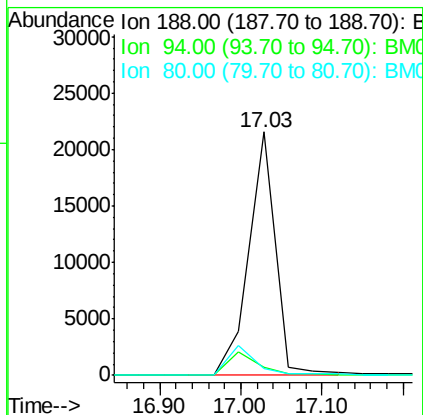
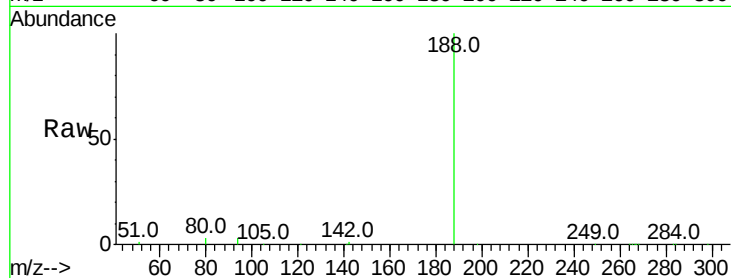
ClientSampleId :

SSTDICC0.2

Tot Ion:188	Resp:	48705
Ion Ratio	Lower	Upper
188 100		
94 3.5	2.7	4.1
80 2.9	2.2	3.4

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:44 PM



#16

Hexachlorobenzene

Concen: 0.45 ng

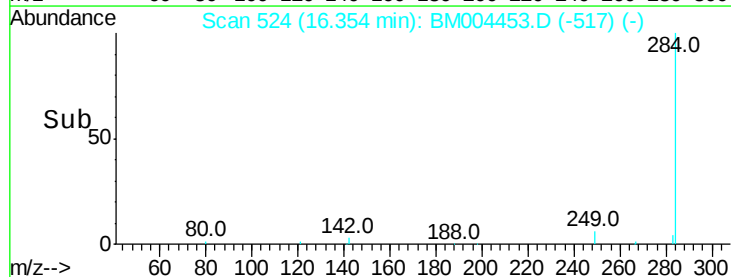
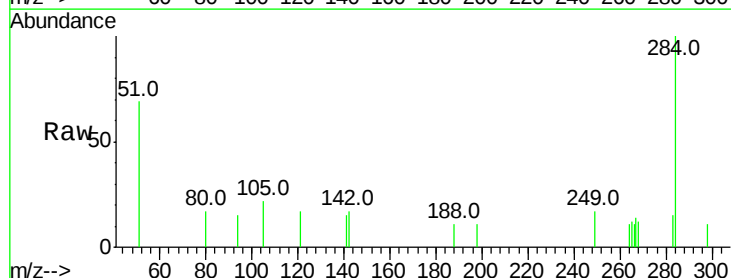
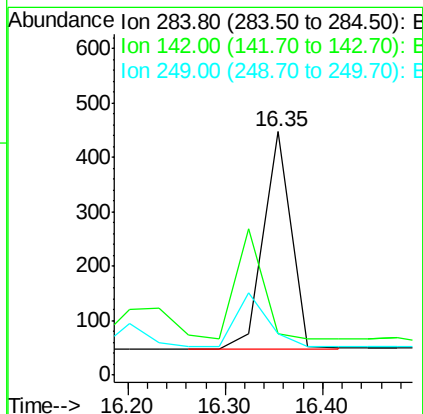
RT: 16.35 min Scan# 524

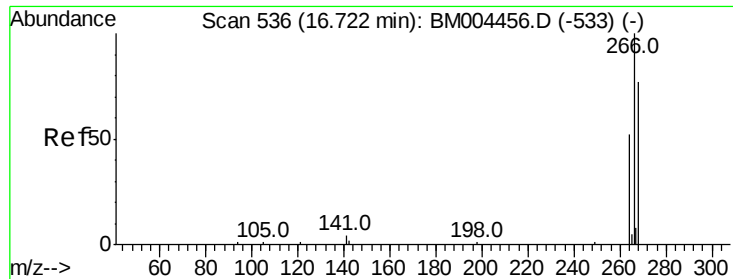
Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Tgt Ion:284	Resp:	793
Ion Ratio	Lower	Upper
284 100		
142 0.0	0.0	0.0
249 0.0	0.0	0.0





#17

Pentachlorophenol

Concen: 0.51 ng

RT: 16.72 min Scan# 536

Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Instrument :

BNA_M

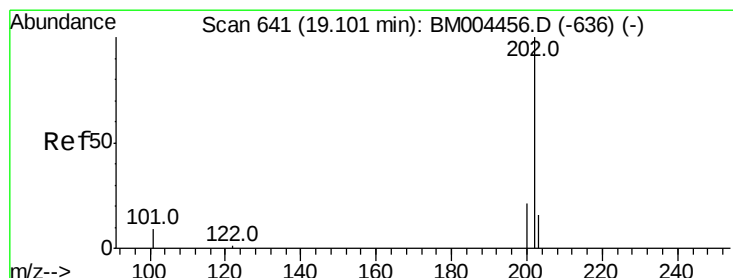
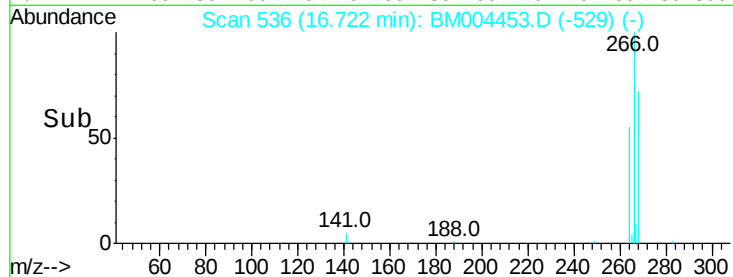
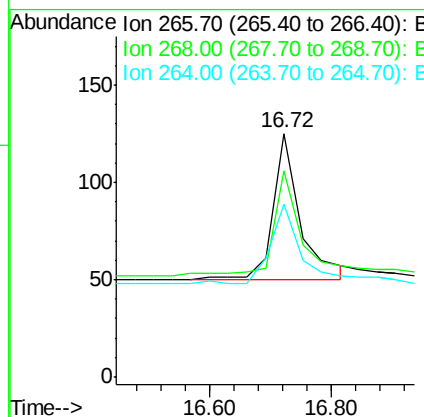
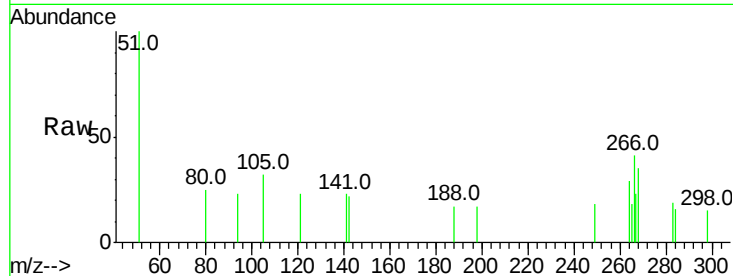
ClientSampleId :

SSTDICC0.2

Tot Ion:	266	Resp:	233
Ion Ratio	Lower	Upper	
266	100		
268	84.8	66.8	100.2
264	71.2	49.4	74.0

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:44 PM



#18

Fluoranthene

Concen: 0.37 ng

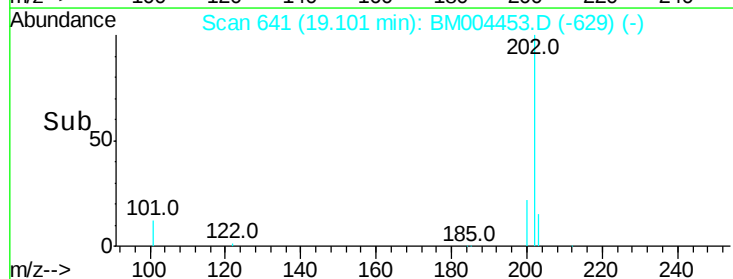
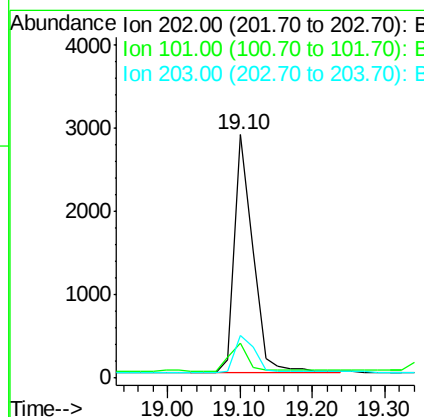
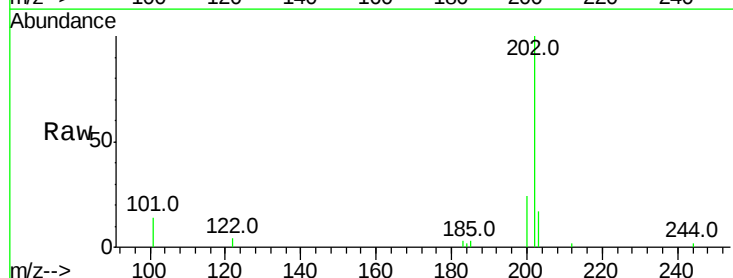
RT: 19.10 min Scan# 641

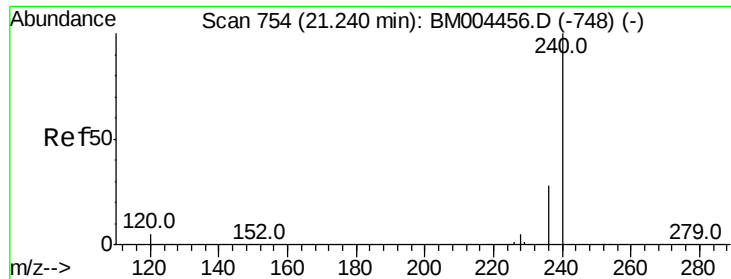
Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Tgt Ion:	202	Resp:	5049
Ion Ratio	Lower	Upper	
202	100		
101	12.1	9.4	14.0
203	18.2	13.9	20.9





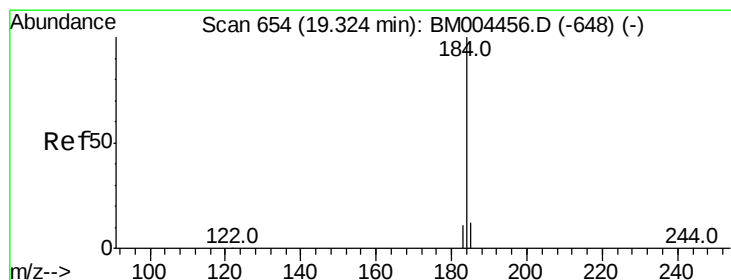
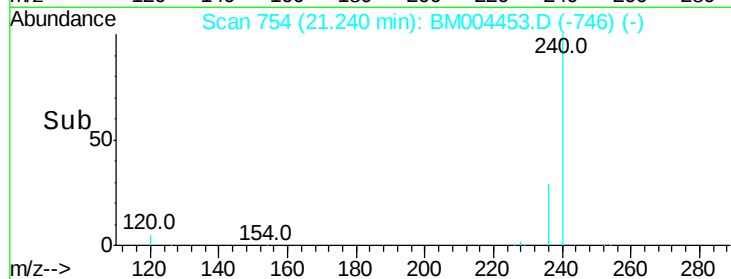
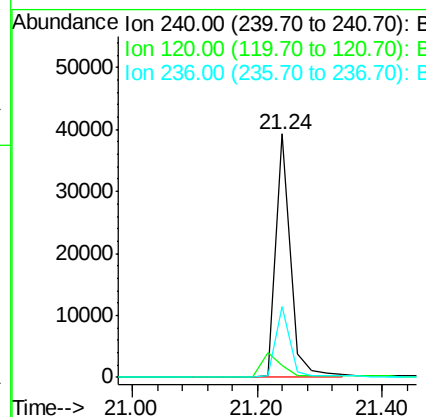
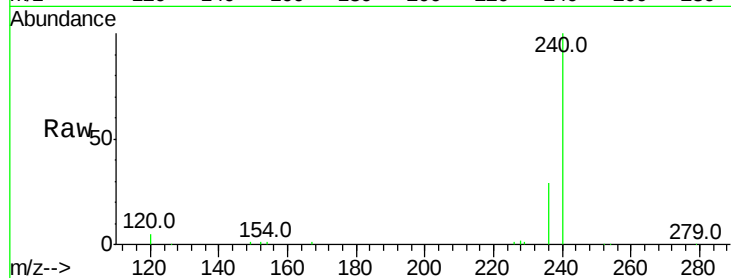
#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.24 min Scan# 754
Delta R.T. 0.00 min
Lab File: BM004453.D
Acq: 28 Feb 2016 16:42

Instrument :
BNA_M
ClientSampleId :
SSTDIC0.2

Tot Ion	Ratio	Lower	Upper
240	100		
120	5.1	4.0	6.0
236	28.9	22.7	34.1

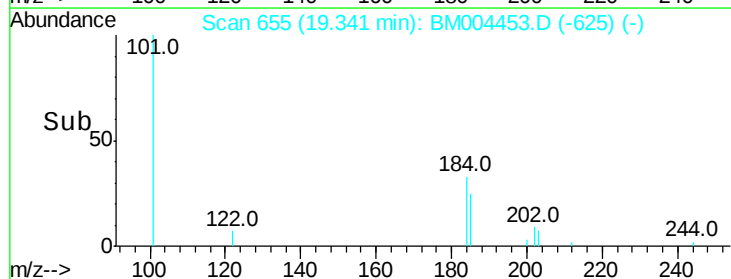
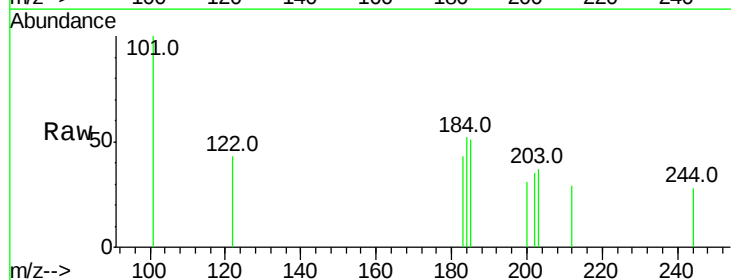
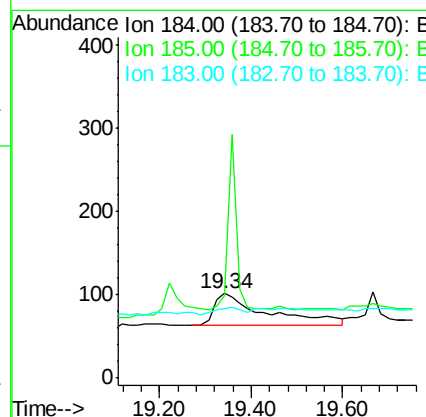
Manual Integrations
APPROVED

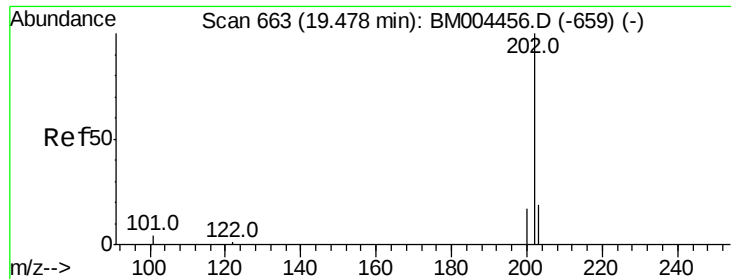
UMANGI
2/29/2016 2:48:44 PM



#20
Benzidine
Concen: 0.10 ng
RT: 19.34 min Scan# 655
Delta R.T. 0.02 min
Lab File: BM004453.D
Acq: 28 Feb 2016 16:42

Tgt Ion	Ratio	Lower	Upper
184	100		
185	98.0	20.8	31.2#
183	83.2	18.5	27.7#





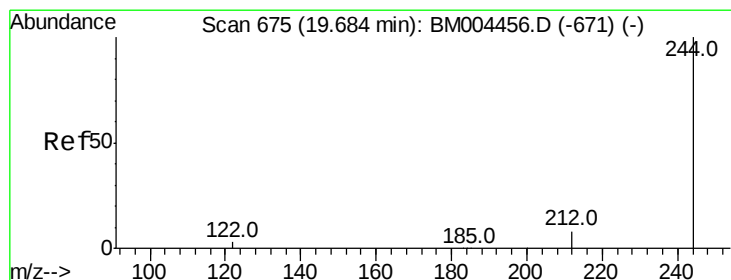
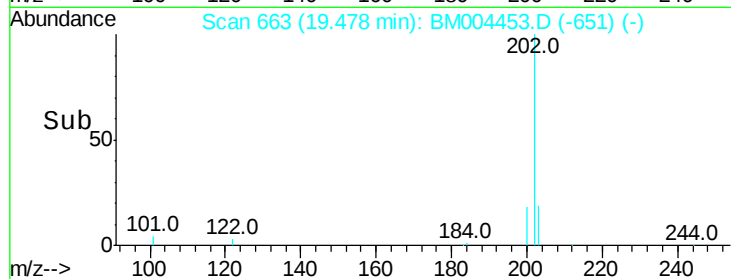
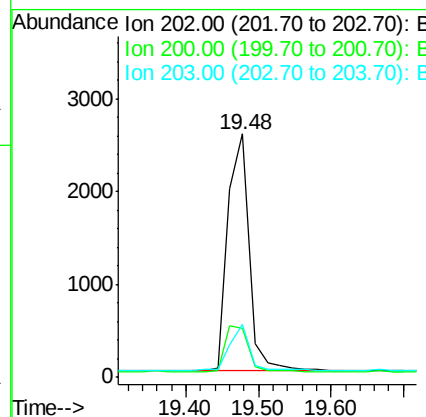
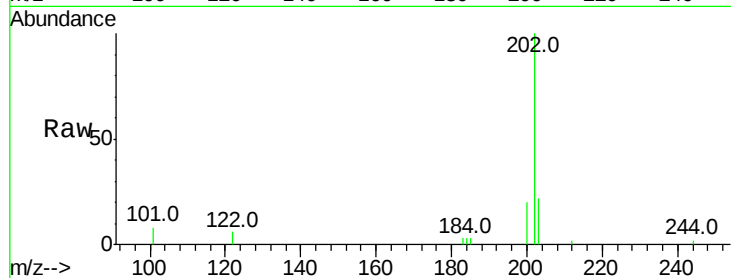
#21
Pvrene
Concen: 0.28 ng
RT: 19.48 min Scan# 663
Delta R.T. 0.00 min
Lab File: BM004453.D
Acq: 28 Feb 2016 16:42

Instrument :
BNA_M
ClientSampleId :
SSTDIC0.2

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.6	24.8
203	18.2	13.9	20.9

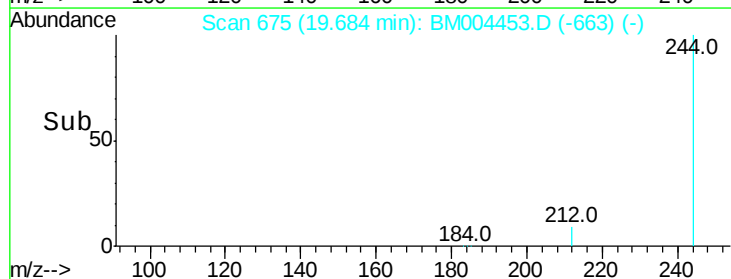
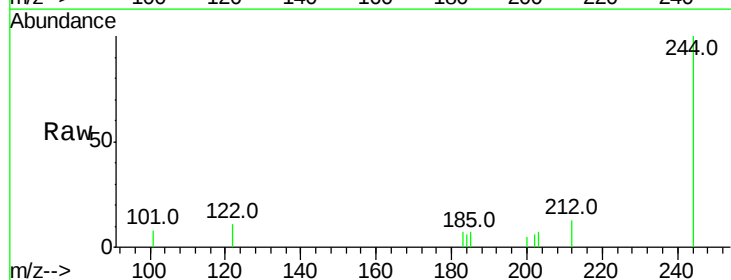
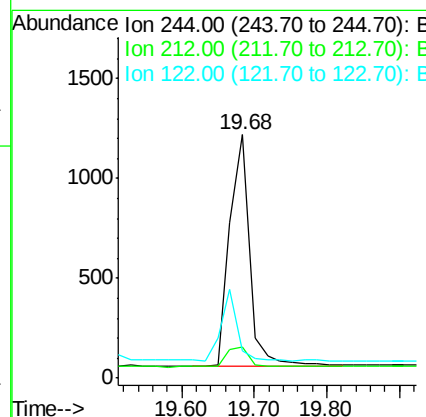
Manual Integrations
APPROVED

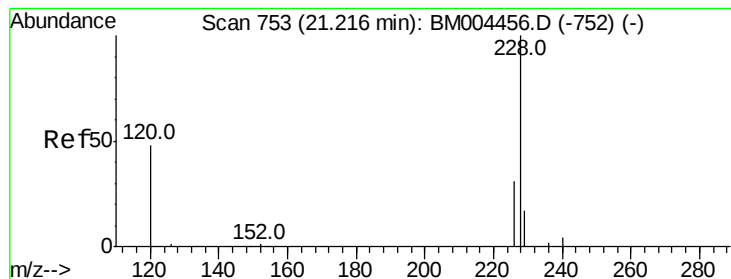
UMANGI
2/29/2016 2:48:44 PM



#22
Terphenyl-d14
Concen: 0.27 ng
RT: 19.68 min Scan# 675
Delta R.T. -0.00 min
Lab File: BM004453.D
Acq: 28 Feb 2016 16:42

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.9	7.4	11.2#
122	11.0	4.2	6.2#





#23

Benzo(a)anthracene

Concen: 0.24 ng m

RT: 21.22 min Scan# 753

Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Instrument :

BNA_M

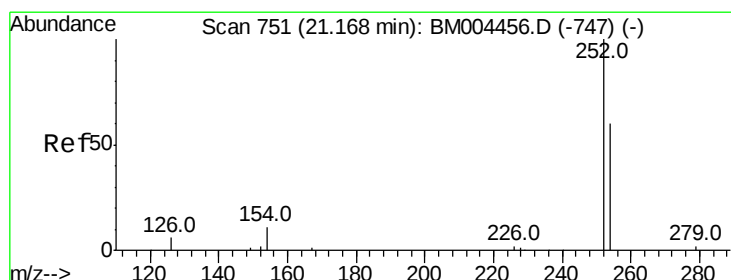
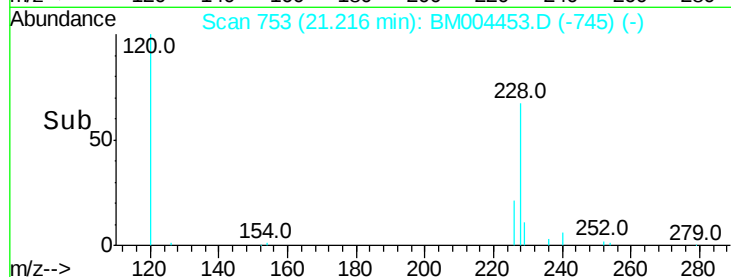
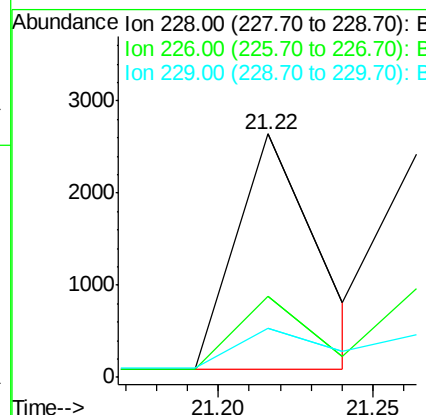
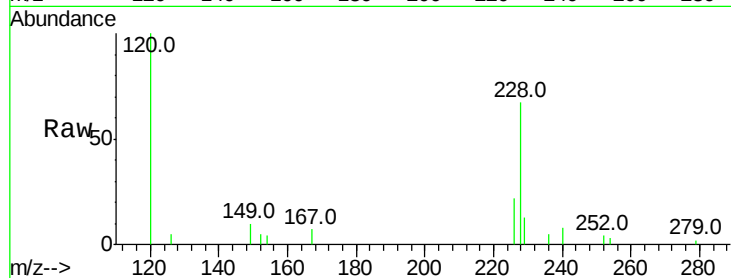
ClientSampleId :

SSTDIC0.2

Tot Ion:	228	Resp:	4716
Ion	Ratio	Lower	Upper
228	100		
226	33.1	25.1	37.7
229	20.0	14.2	21.4

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:44 PM



#24

3,3'-Dichlorobenzidine

Concen: 0.32 ng

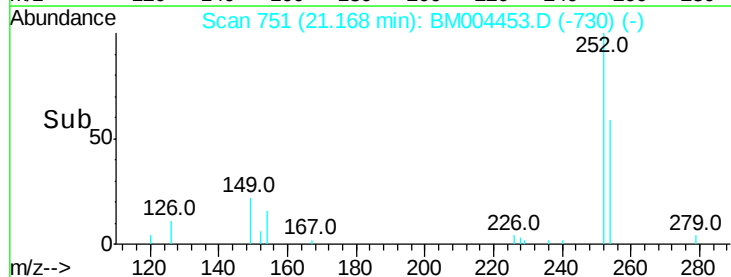
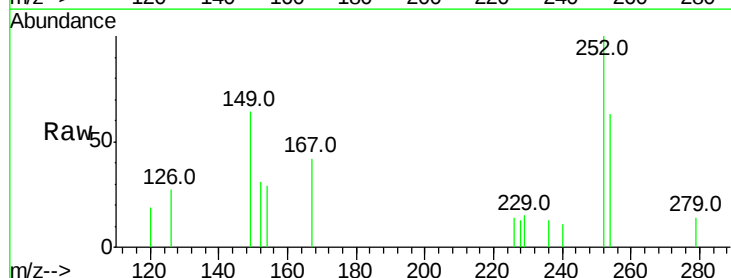
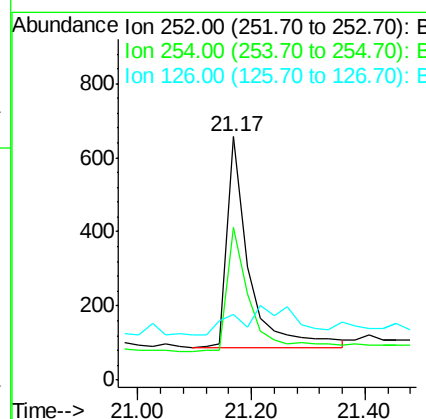
RT: 21.17 min Scan# 751

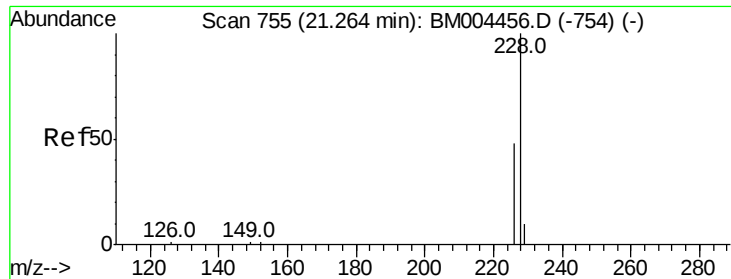
Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Tgt Ion:	252	Resp:	1498
Ion	Ratio	Lower	Upper
252	100		
254	62.6	48.7	73.1
126	27.1	8.2	12.2#





#25

Chrysene

Concen: 0.53 ng m

RT: 21.29 min Scan# 756

Delta R.T. 0.02 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Instrument :

BNA_M

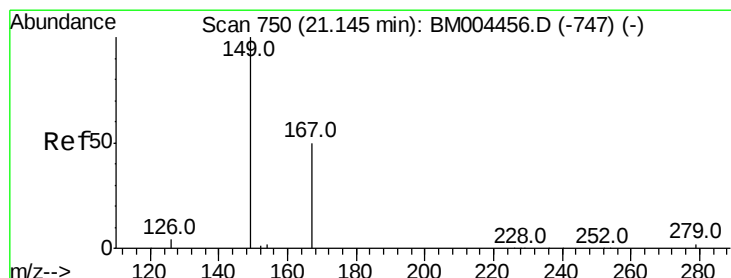
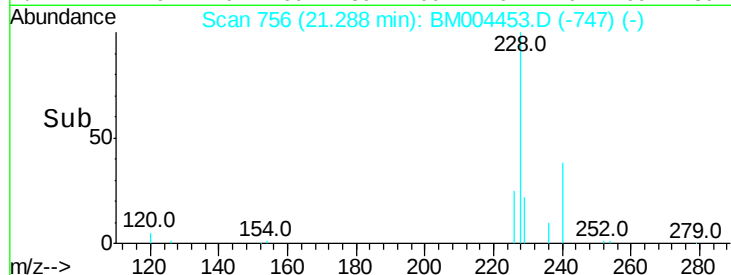
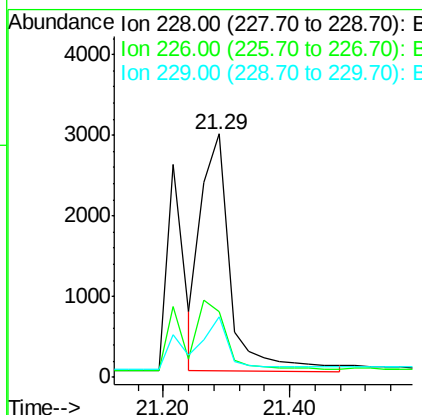
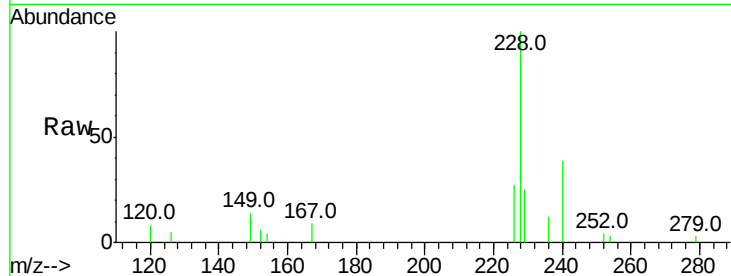
ClientSampleId :

SSTDIC0.2

Tot Ion:	228	Resp:	9486
Ion Ratio	Lower	Upper	
228	100		
226	27.1	31.0	46.6#
229	25.0	13.4	20.2#

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:44 PM



#26

Bis(2-ethylhexyl)phthalate

Concen: 0.43 ng

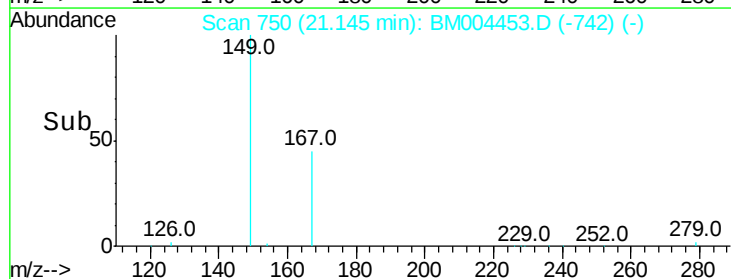
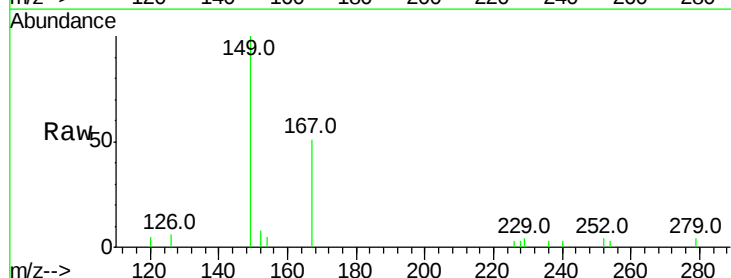
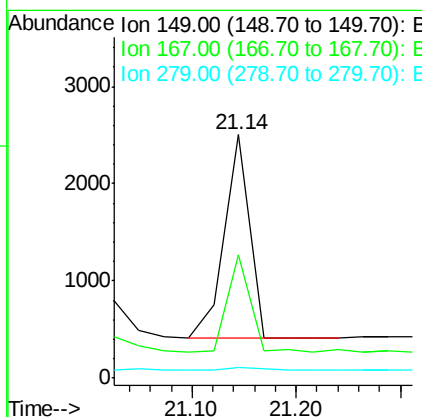
RT: 21.14 min Scan# 750

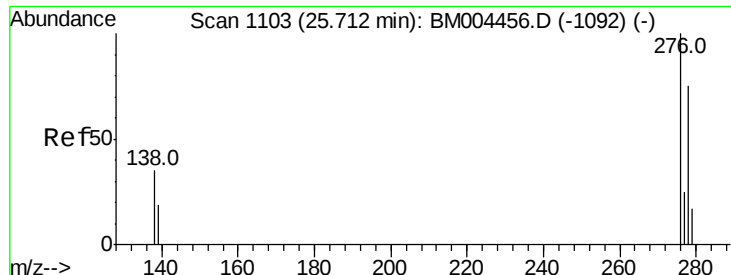
Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Tgt Ion:	149	Resp:	3542
Ion Ratio	Lower	Upper	
149	100		
167	43.3	33.1	49.7
279	2.5	2.0	3.0





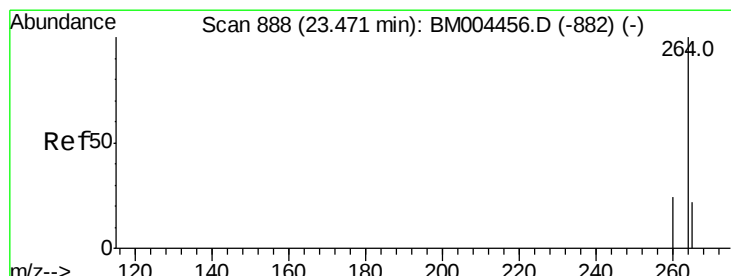
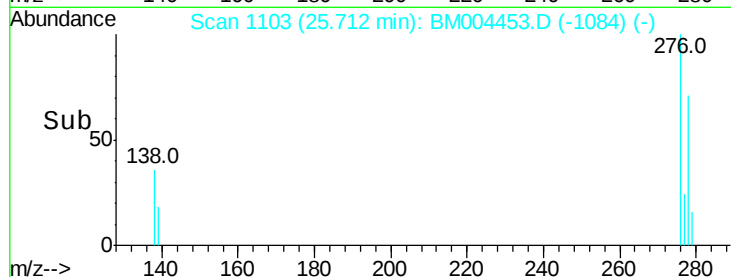
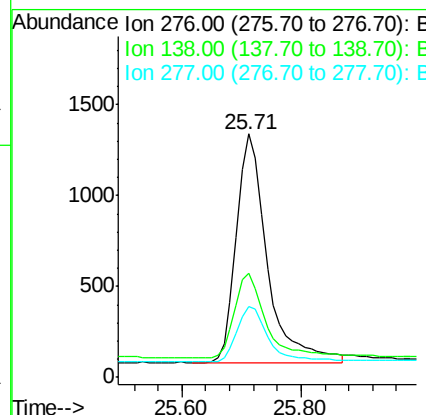
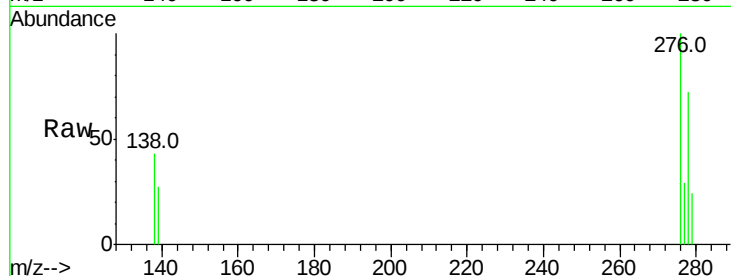
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.24 ng
RT: 25.71 min Scan# 1103
Delta R.T. 0.00 min
Lab File: BM004453.D
Acq: 28 Feb 2016 16:42

Instrument :
BNA_M
ClientSampleId :
SSTDICC0.2

Tot Ion	Ratio	Lower	Upper
276	100		
138	37.7	30.0	45.0
277	24.8	19.8	29.8

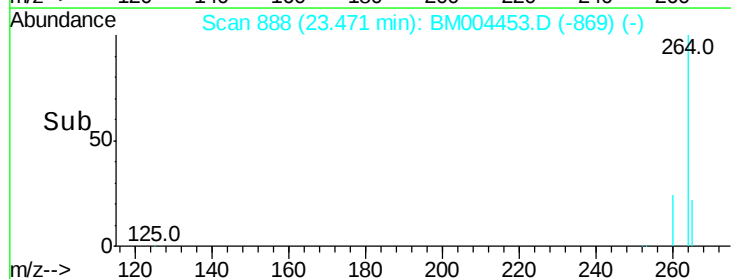
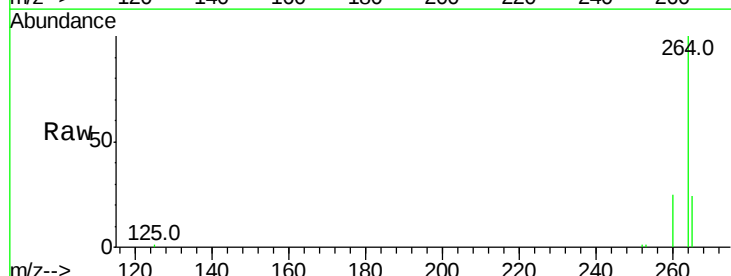
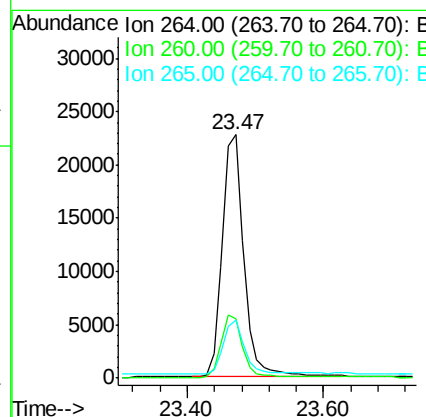
Manual Integrations
APPROVED

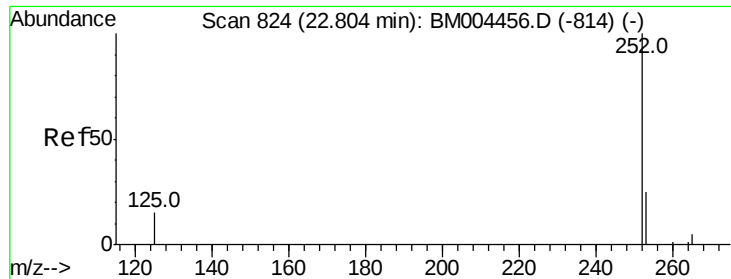
UMANGI
2/29/2016 2:48:44 PM



#28
Perylene-d12
Concen: 5.00 ng
RT: 23.47 min Scan# 888
Delta R.T. 0.00 min
Lab File: BM004453.D
Acq: 28 Feb 2016 16:42

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	23.7	18.9	28.3





#29

Benzo(b)fluoranthene

Concen: 0.31 ng

RT: 22.80 min Scan# 824

Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Instrument :

BNA_M

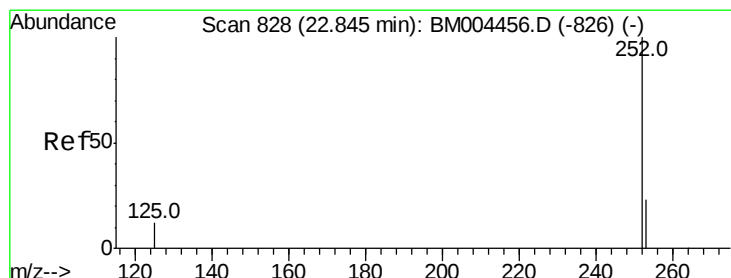
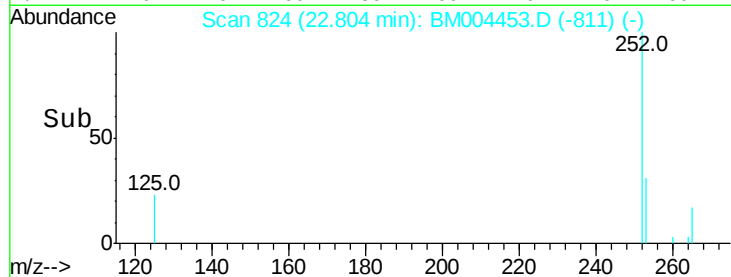
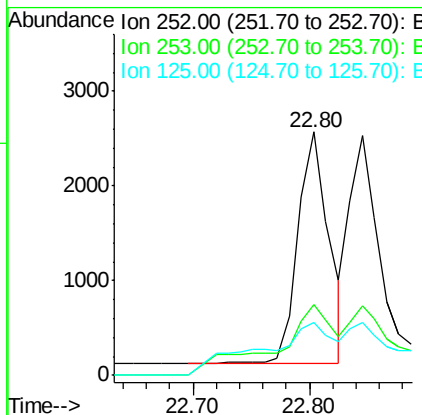
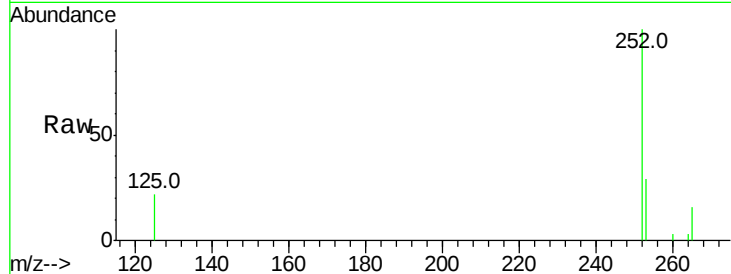
ClientSampleId :

SSTDIC0.2

Tot Ion:	252	Resp:	4997
Ion Ratio	Lower	Upper	
252	100		
253	29.4	19.8	29.6
125	21.7	12.2	18.2#

Manual Integrations
APPROVED

UMANGI
2/29/2016 2:48:44 PM



#30

Benzo(k)fluoranthene

Concen: 0.32 ng

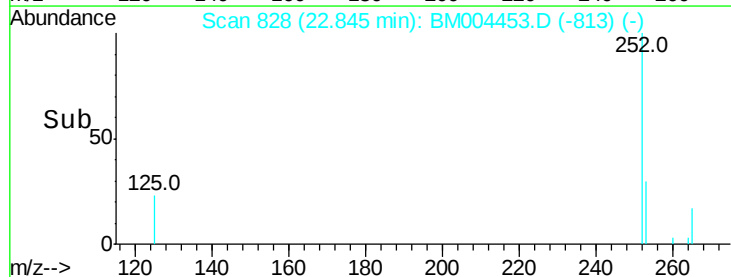
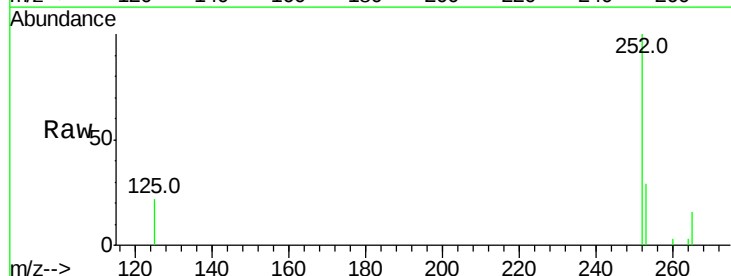
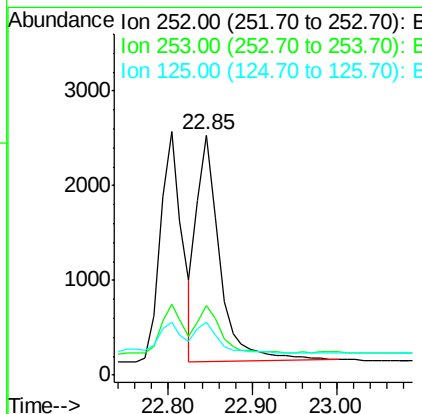
RT: 22.85 min Scan# 828

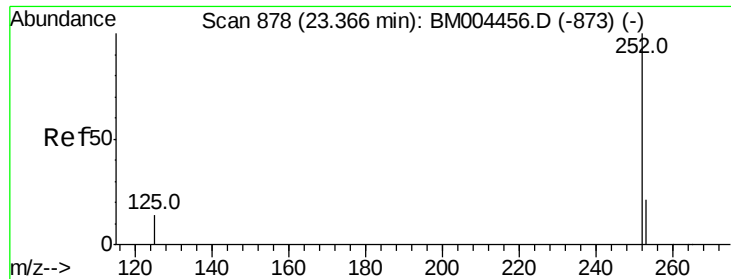
Delta R.T. 0.00 min

Lab File: BM004453.D

Acq: 28 Feb 2016 16:42

Tgt Ion:	252	Resp:	4507
Ion Ratio	Lower	Upper	
252	100		
253	28.9	19.3	28.9
125	21.9	12.4	18.6#





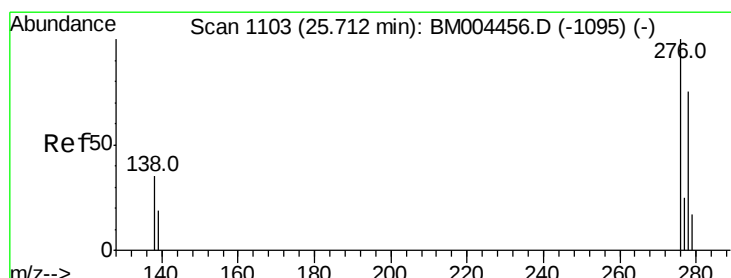
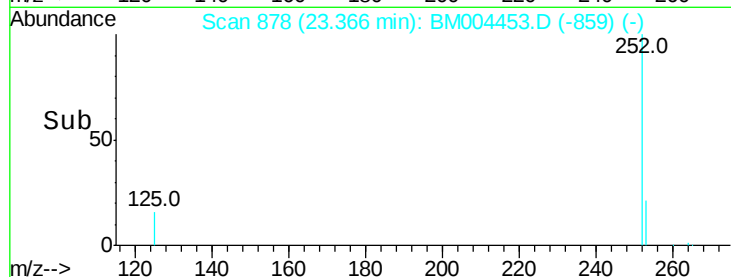
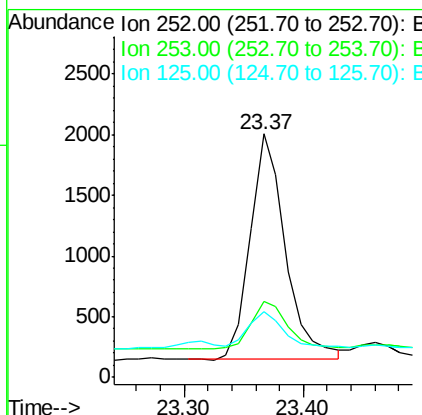
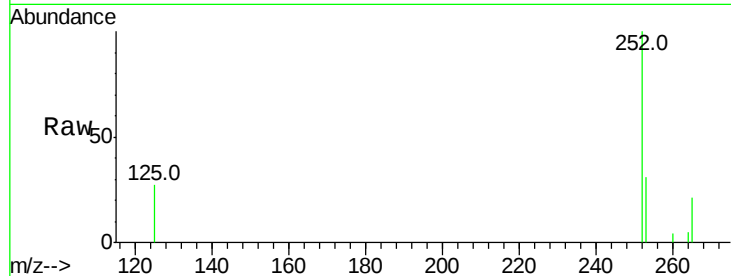
#31
Benzo(a)pyrene
Concen: 0.28 ng
RT: 23.37 min Scan# 878
Delta R.T. 0.00 min
Lab File: BM004453.D
Acq: 28 Feb 2016 16:42

Instrument :
BNA_M
ClientSampleId :
SSTDIC0.2

Tot Ion	Ratio	Lower	Upper
252	100		
253	31.2	19.3	28.9#
125	26.8	14.4	21.6#

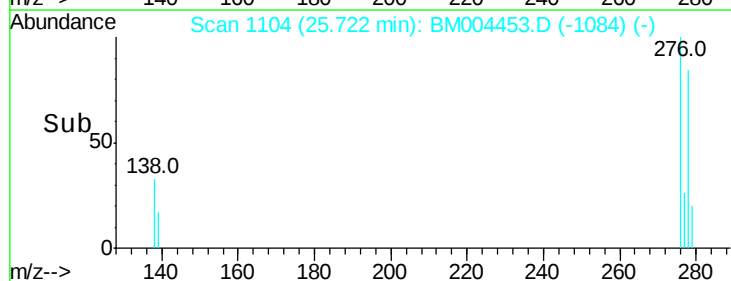
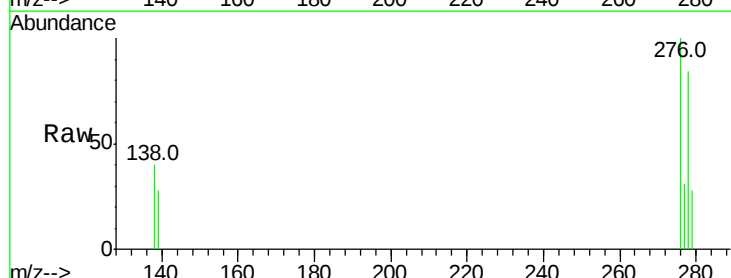
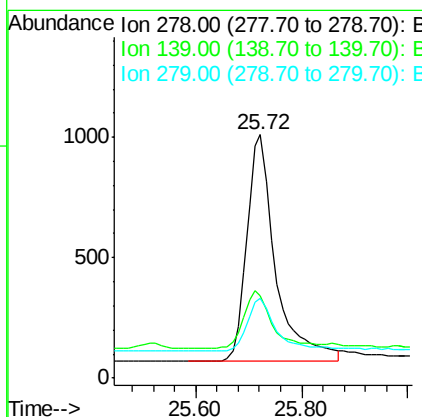
Manual Integrations
APPROVED

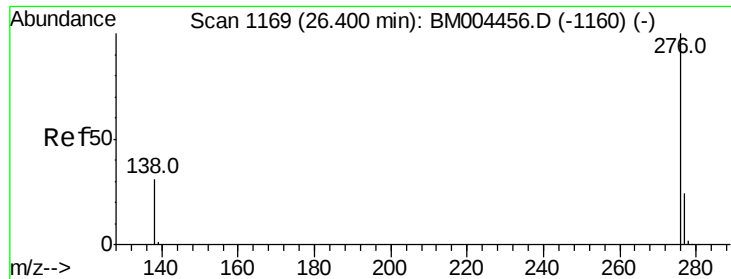
UMANGI
2/29/2016 2:48:44 PM



#32
Dibenzo(a,h)anthracene
Concen: 0.29 ng
RT: 25.72 min Scan# 1104
Delta R.T. 0.01 min
Lab File: BM004453.D
Acq: 28 Feb 2016 16:42

Tgt Ion	Ratio	Lower	Upper
278	100		
139	33.6	22.3	33.5#
279	32.9	20.7	31.1#





#33
 Benzo(a,h,i)perylene
 Concen: 0.29 ng
 RT: 26.40 min Scan# 1169
 Delta R.T. 0.00 min
 Lab File: BM004453.D
 Acq: 28 Feb 2016 16:42

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC0.2

Tot Ion	Ratio	Lower	Upper
276	100		
277	29.7	20.4	30.6
138	40.6	26.4	39.6

Manual Integrations
 APPROVED

UMANGI
 2/29/2016 2:48:44 PM

