

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082919\
 Data File : BM022414.D
 Acq On : 29 Aug 2019 18:57
 Operator : HP/JU
 Sample : K4409-12DL 25X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 S301-J-3.0-3.5-081919DL

Manual Integrations
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Jagrut
 8/30/2019 10:29:54 AM

Quant Time: Aug 29 19:46:53 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	15953	20.00	ng	0.00
21) Naphthalene-d8	10.29	136	57707	20.00	ng	0.00
39) Acenaphthene-d10	14.18	164	34284	20.00	ng	0.00
64) Phenanthrene-d10	16.95	188	74866	20.00	ng	0.00
76) Chrysene-d12	21.17	240	118359	20.00	ng	0.00
87) Perylene-d12	23.36	264	148672m	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	2727	3.00	ng	0.00
7) Phenol-d6	6.75	99	3406	2.80	ng	0.03
23) Nitrobenzene-d5	8.72	82	2181	1.66	ng	0.02
42) 2,4,6-Tribromophenol	15.71	330	1480	2.11	ng	0.01
45) 2-Fluorobiphenyl	12.79	172	4928	1.63	ng	0.00
79) Terphenyl-d14	19.60	244	8776	0.98	ng	0.00
Target Compounds						
31) Naphthalene	10.35	128	149126	49.683	ng	98
37) 2-Methylnaphthalene	11.97	142	17898	7.847	ng	96
38) 1-Methylnaphthalene	12.20	142	8931	4.057	ng	88
46) 1,1'-Biphenyl	13.01	154	7611	2.717	ng	93
52) Acenaphthene	14.25	154	52561	26.106	ng	95
55) Dibenzofuran	14.59	168	72159	21.275	ng	99
58) Fluorene	15.24	166	88527	29.215	ng	99
71) Phenanthrene	17.00	178	945330	216.624	ng	99
72) Anthracene	17.09	178	245615	57.205	ng	98
73) Carbazole	17.37	167	107370	30.253	ng	99
75) Fluoranthene	19.03	202	1223601	210.549	ng	99
78) Pyrene	19.39	202	934253	115.824	ng	99
81) Benzo(a)anthracene	21.16	228	565273	66.539	ng	99
83) Chrysene	21.20	228	445779	55.129	ng	98
86) Indeno(1,2,3-cd)pyrene	25.53	276	335707	41.275	ng	99
88) Benzo(b)fluoranthene	22.71	252	653342	63.257	ng	99
89) Benzo(k)fluoranthene	22.74	252	216301m	21.111	ng	
90) Benzo(a)pyrene	23.26	252	544341	59.377	ng	99
91) Dibenzo(a,h)anthracene	25.53	278	92769m	10.148	ng	
92) Benzo(a,h,i)perylene	26.20	276	331457	41.603	ng	99

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

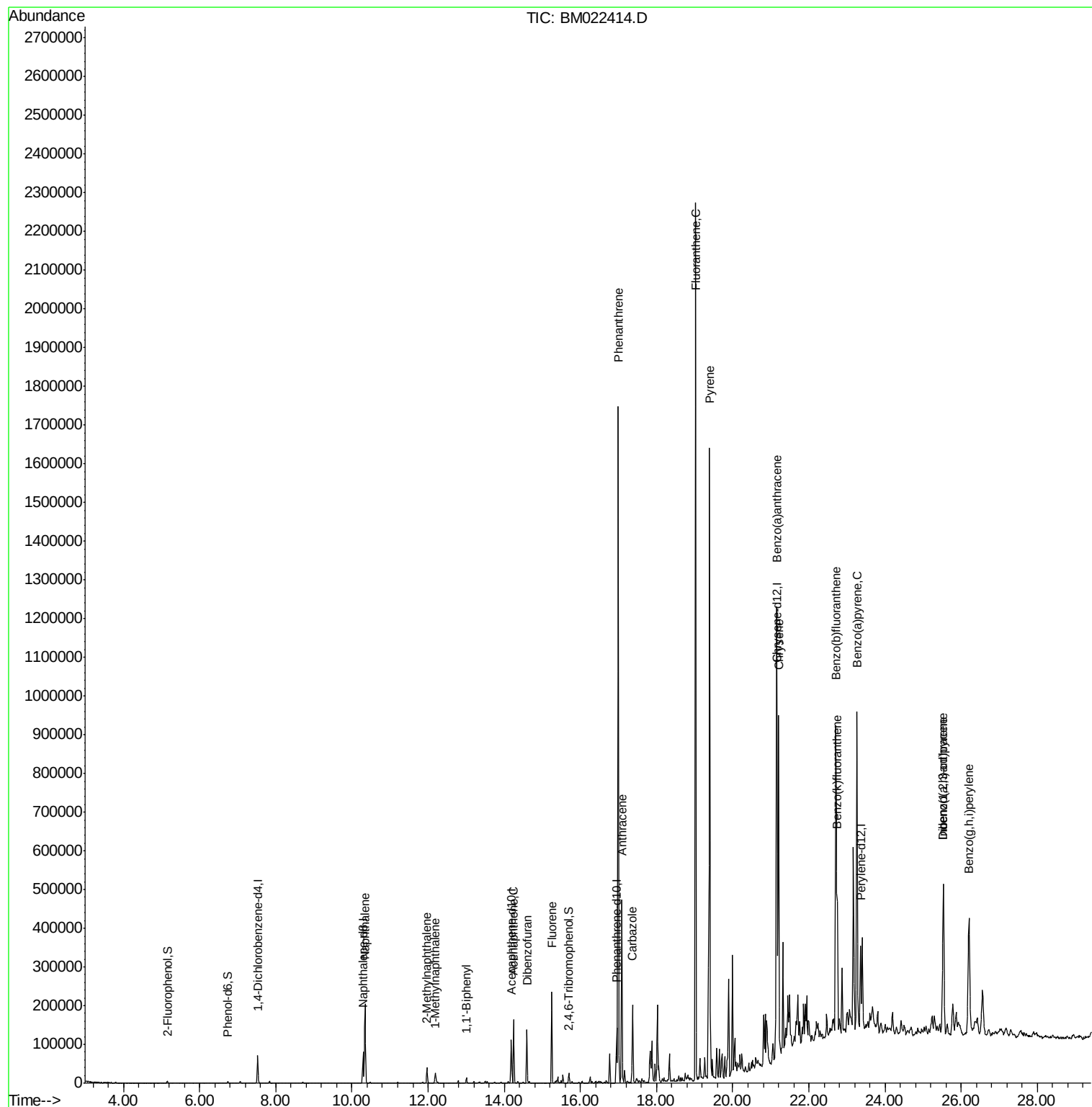
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082919\
Data File : BM022414.D
Acq On : 29 Aug 2019 18:57
Operator : HP/JU
Sample : K4409-12DL 25X
Misc :
ALS Vial : 4 Sample Multiplier: 1

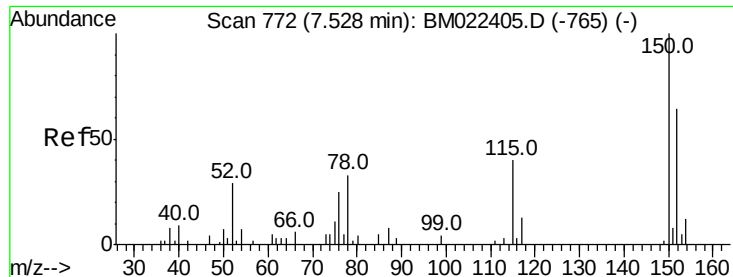
Instrument :
BNA_M
ClientSampleId :
S301-J-3.0-3.5-081919DL

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8/30/2019 10:29:54 AM

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

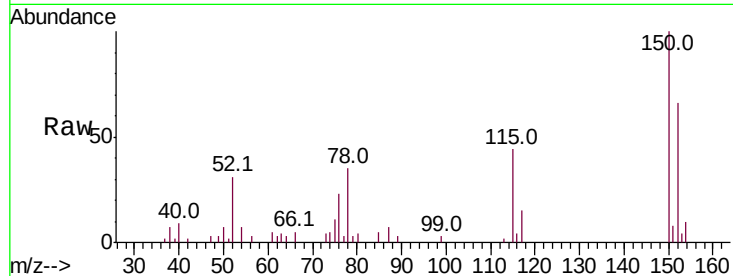
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.52 min Scan# 771
Delta R.T. -0.01 min
Lab File: BM022414.D
Acq: 29 Aug 2019 18:57

Instrument :
BNA_M
ClientSampleId :
S301-J-3.0-3.5-081919DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.2	125.4	188.0
115	66.1	50.3	75.5

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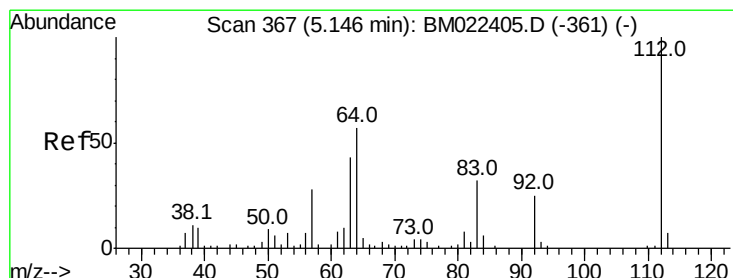
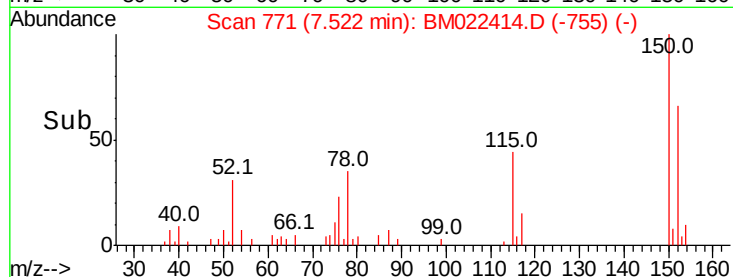
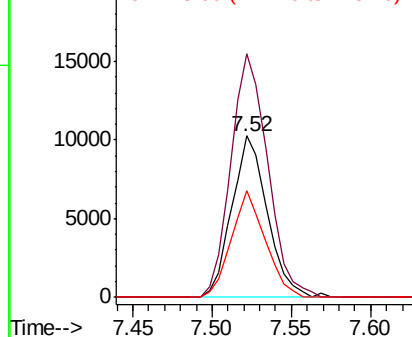


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

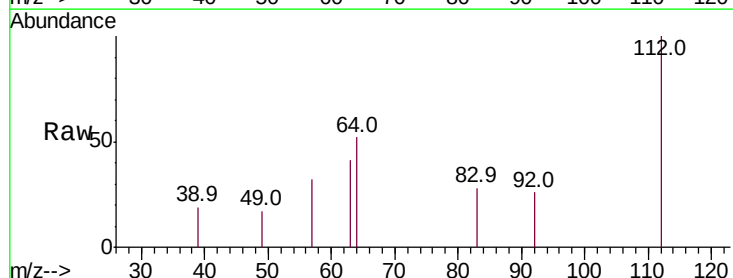
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 3.001 ng
RT: 5.15 min Scan# 368
Delta R.T. 0.01 min
Lab File: BM022414.D
Acq: 29 Aug 2019 18:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.9	45.4	68.2
63	40.8	34.5	51.7

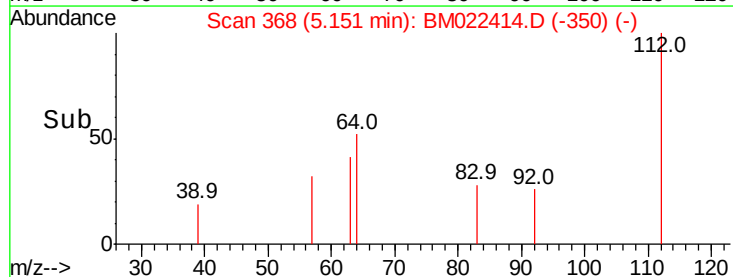
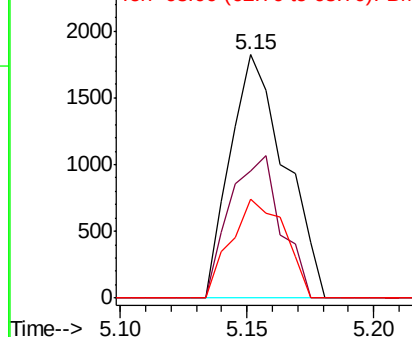


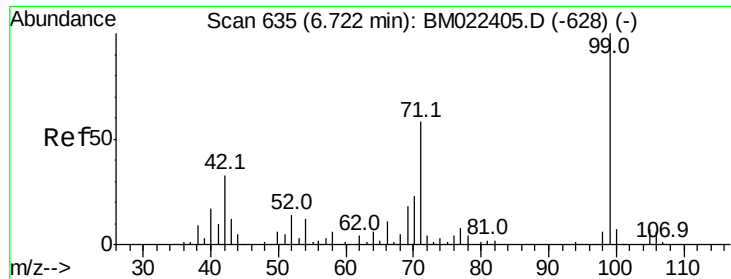
Abundance

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: 2.802 ng

RT: 6.75 min Scan# 640

Delta R.T. 0.03 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Instrument :

BNA_M

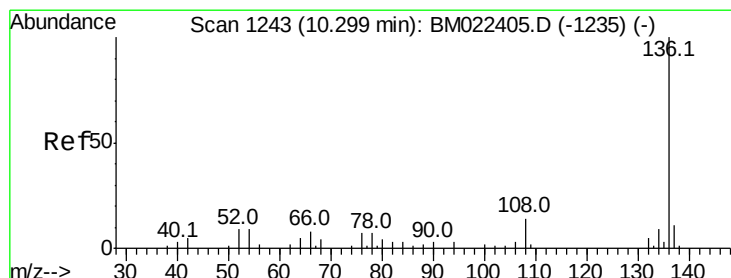
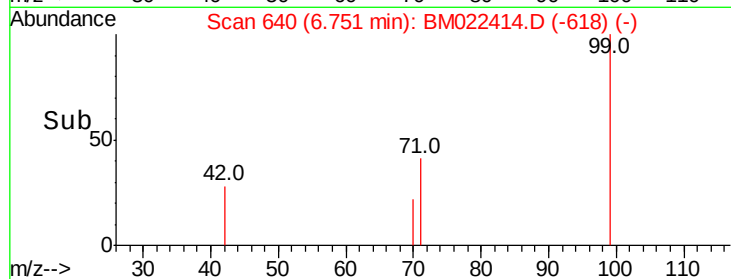
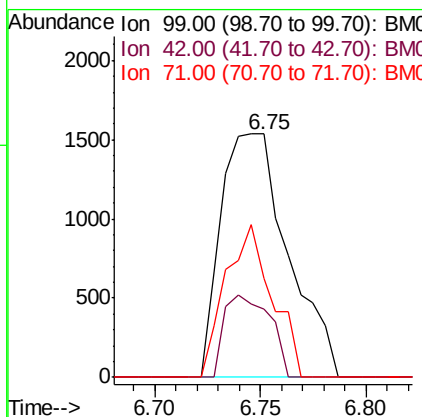
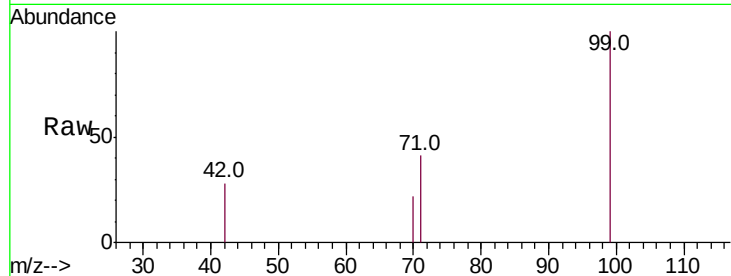
ClientSampleId :

S301-J-3.0-3.5-081919DL

Tot Ion:	99	Resp:	3406
Ion Ratio	Lower	Upper	
99	100		
42	27.9	26.3	39.5
71	40.6	46.6	69.8#

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#21

Naphthalene-d8

Concen: 20.000 ng

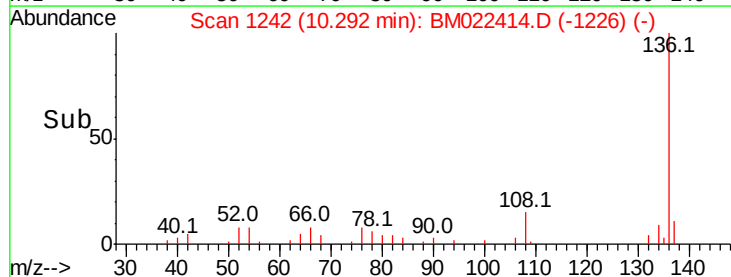
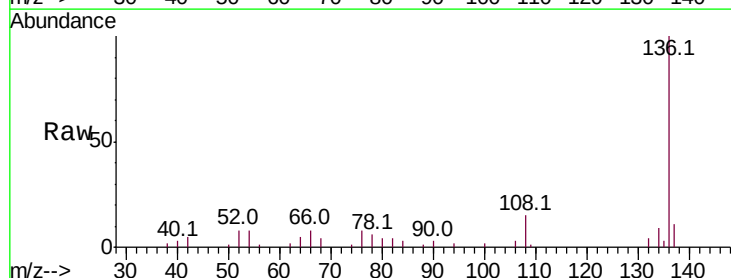
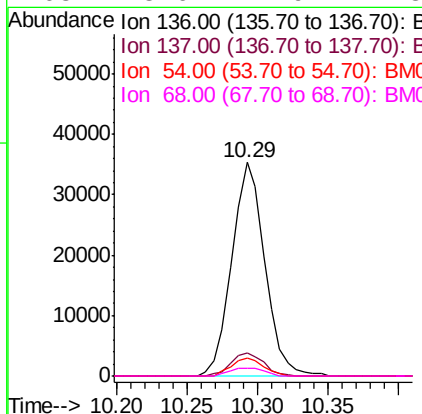
RT: 10.29 min Scan# 1242

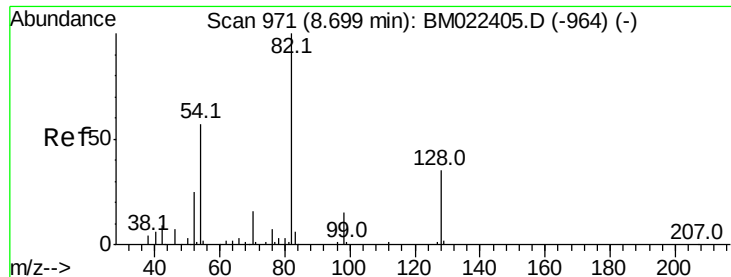
Delta R.T. -0.01 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Tgt Ion:	136	Resp:	57707
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.6	13.0
54	8.5	7.0	10.6
68	3.6	2.9	4.3





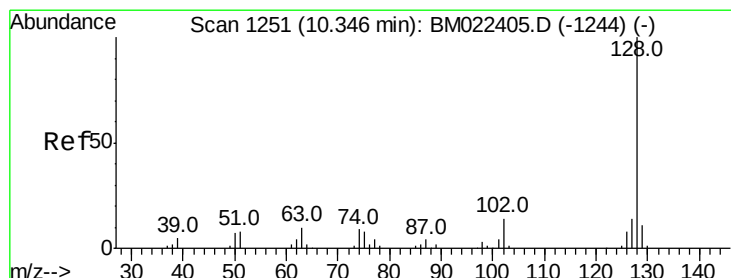
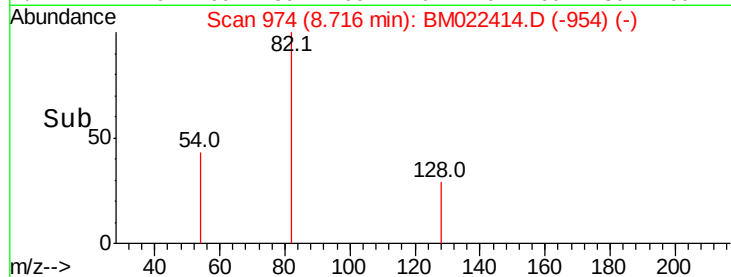
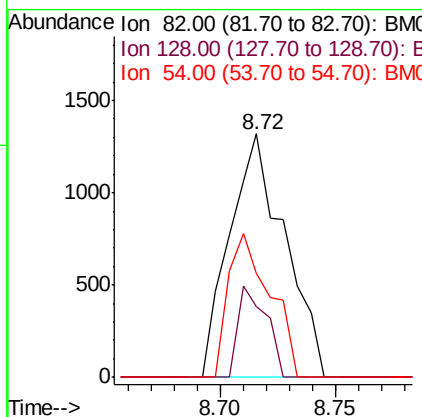
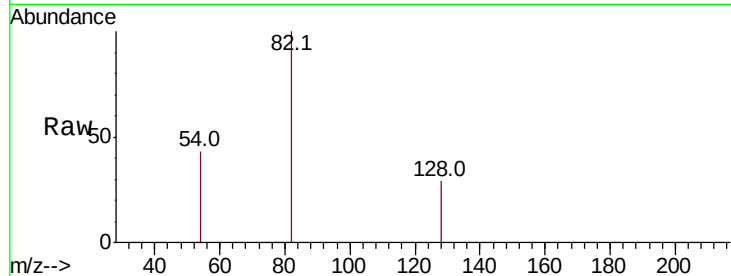
#23
 Nitrobenzene-d5
 Concen: 1.655 ng
 RT: 8.72 min Scan# 974
 Delta R.T. 0.02 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Instrument :
 BNA_M
 ClientSampleID :
 S301-J-3.0-3.5-081919DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	29.1	27.9	41.9
54	42.8	45.2	67.8

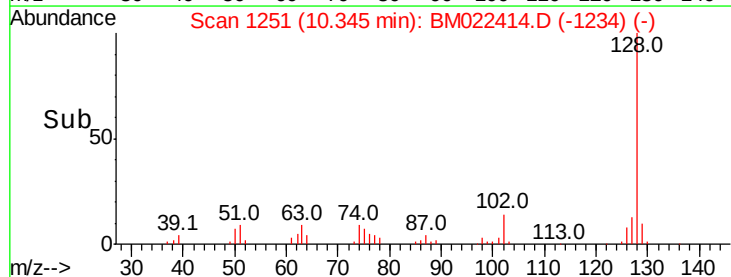
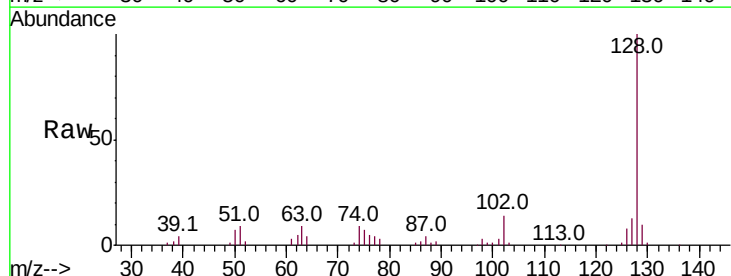
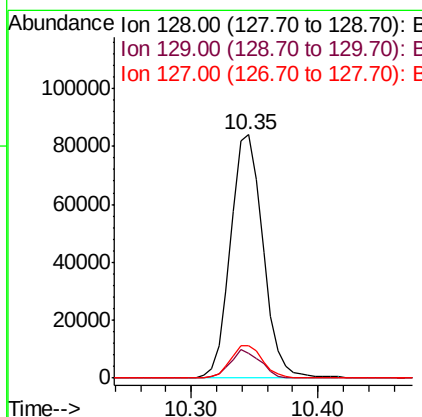
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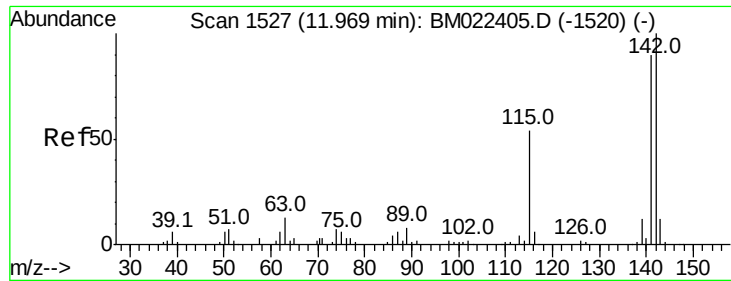
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#31
 Naphthalene
 Concen: 49.683 ng
 RT: 10.35 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.3	9.0	13.4
127	13.1	11.0	16.4





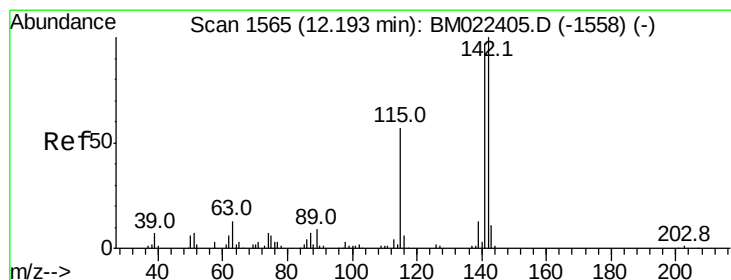
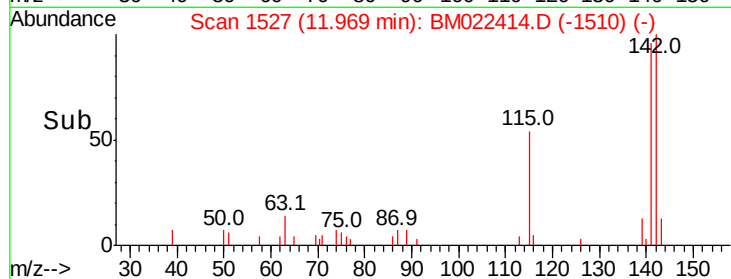
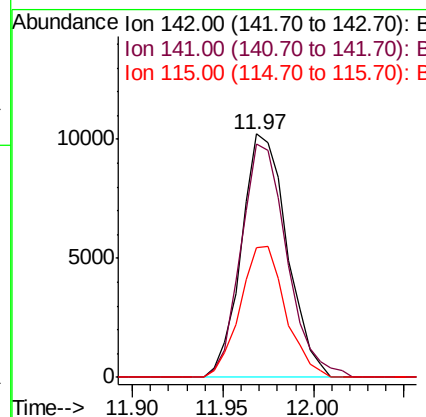
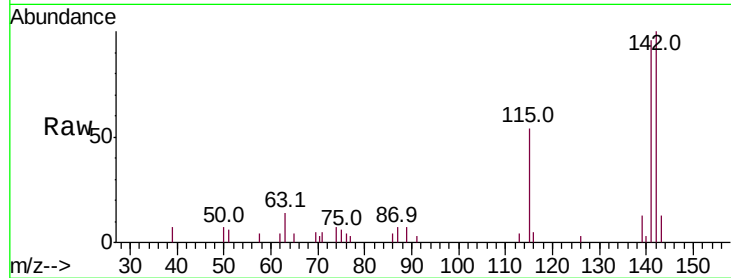
#37
2-Methylnaphthalene
Concen: 7.847 ng
RT: 11.97 min Scan# 1527
Delta R.T. -0.00 min
Lab File: BM022414.D
Acq: 29 Aug 2019 18:57

Instrument :
BNA_M
ClientSampleId :
S301-J-3.0-3.5-081919DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	95.8	72.2	108.2
115	53.5	43.2	64.8

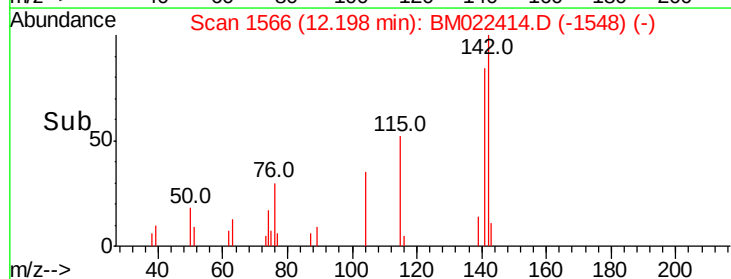
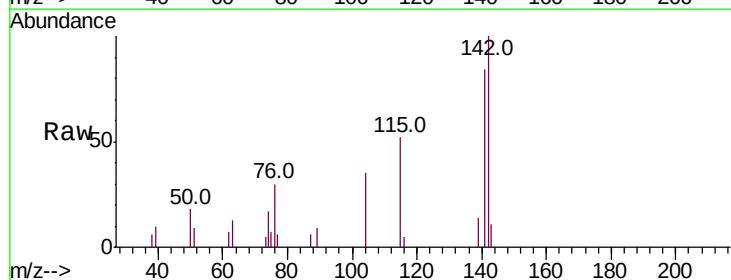
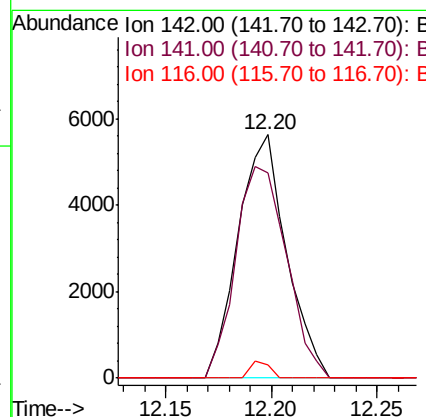
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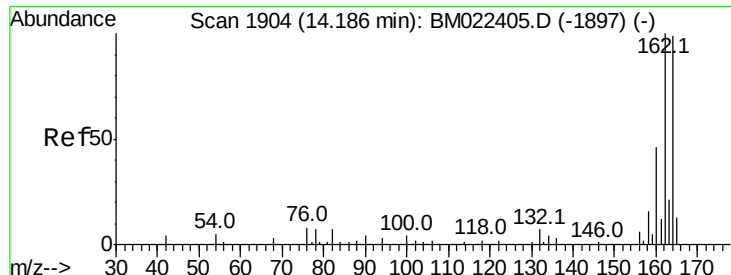
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#38
1-Methylnaphthalene
Concen: 4.057 ng
RT: 12.20 min Scan# 1566
Delta R.T. 0.01 min
Lab File: BM022414.D
Acq: 29 Aug 2019 18:57

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.1	77.3	115.9
116	5.5	4.9	7.3





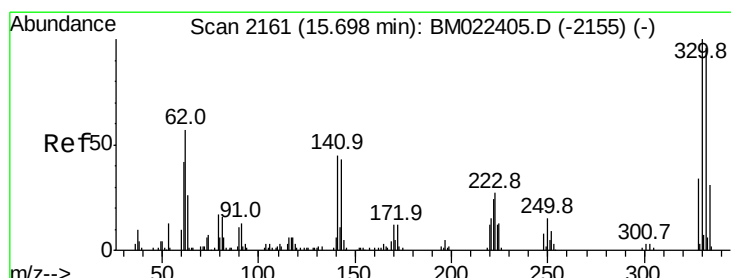
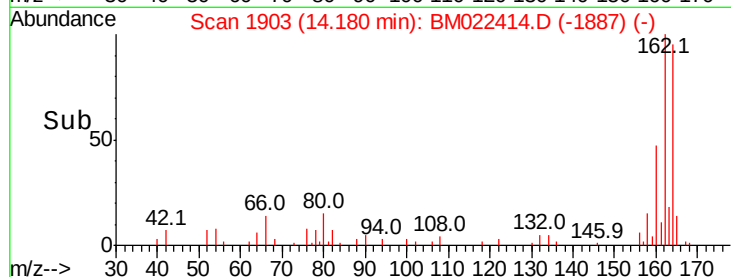
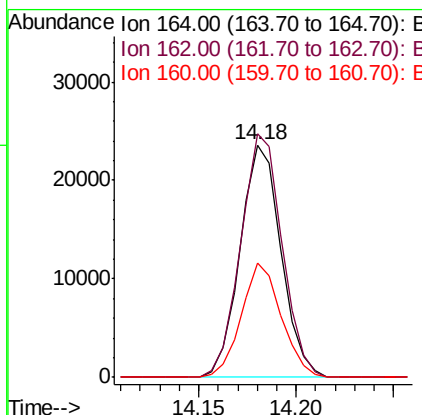
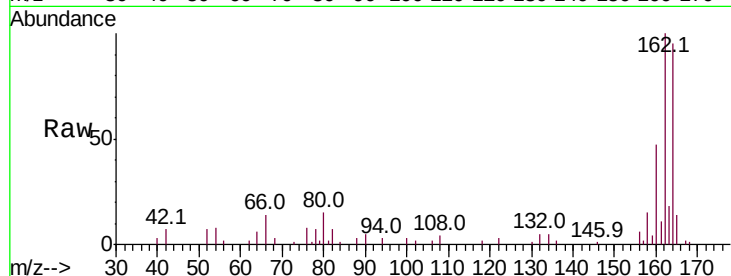
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.18 min Scan# 1903
Delta R.T. -0.01 min
Lab File: BM022414.D
Acq: 29 Aug 2019 18:57

Instrument :
BNA_M
ClientSampleId :
S301-J-3.0-3.5-081919DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	104.7	80.6	121.0
160	49.2	37.3	55.9

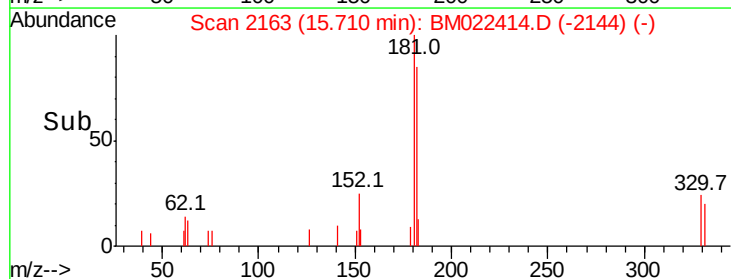
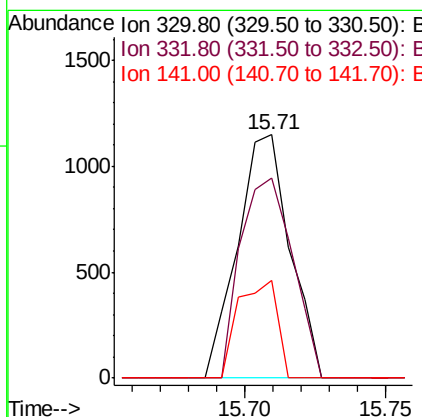
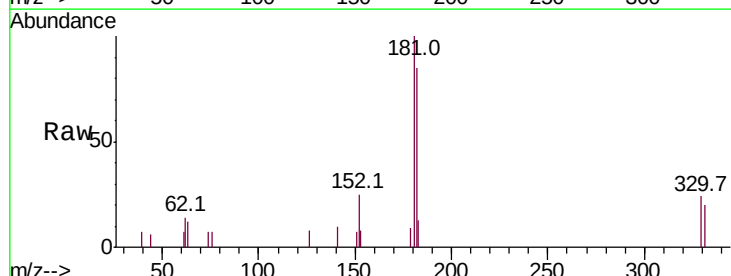
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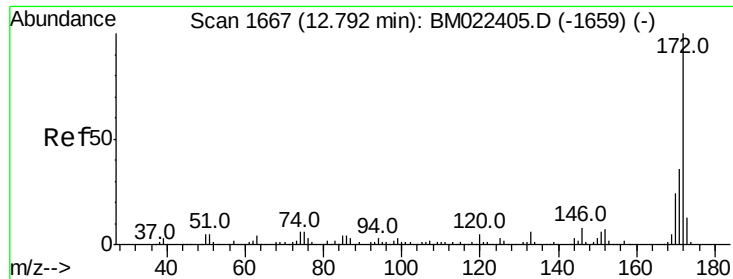
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#42
2,4,6-Tribromophenol
Concen: 2.110 ng
RT: 15.71 min Scan# 2163
Delta R.T. 0.01 min
Lab File: BM022414.D
Acq: 29 Aug 2019 18:57

Tgt Ion	Ratio	Lower	Upper
330	100		
332	82.1	77.8	116.8
141	29.7	35.6	53.4#





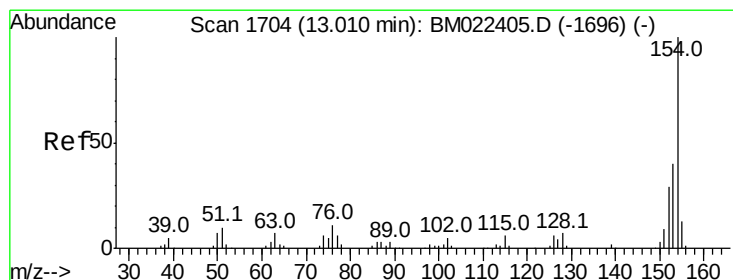
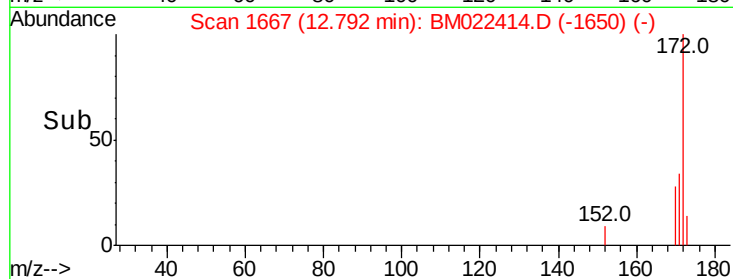
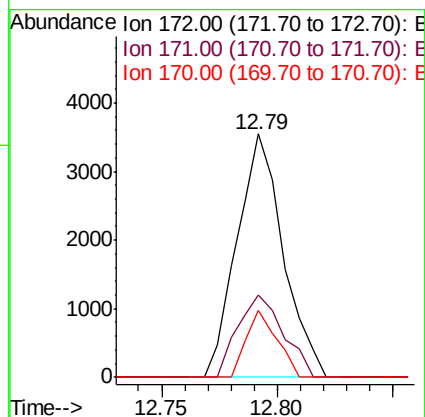
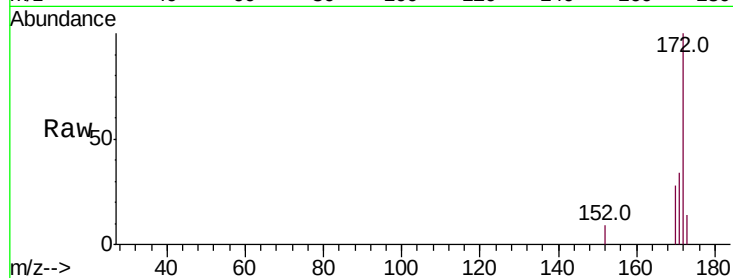
#45
 2-Fluorobiphenyl
 Concen: 1.628 ng
 RT: 12.79 min Scan# 1667
 Delta R.T. -0.00 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Instrument :
 BNA_M
 ClientSampleId :
 S301-J-3.0-3.5-081919DL

Tot Ion:	172	Resp:	4928
Ion Ratio	Lower	Upper	
172	100		
171	33.8	28.5	42.7
170	27.8	18.9	28.3

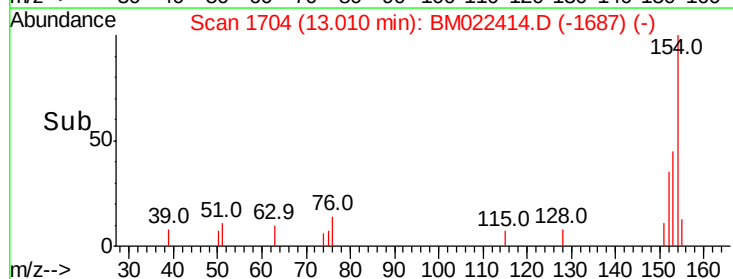
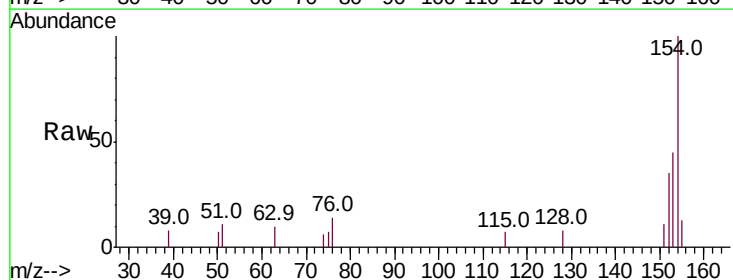
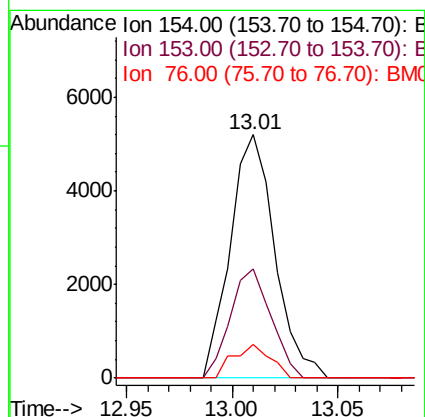
Manual Integrations
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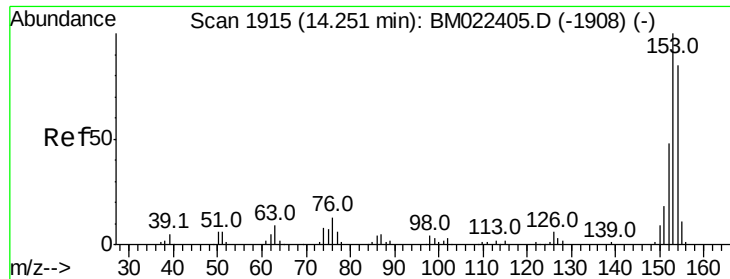
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#46
 1,1'-Biphenyl
 Concen: 2.717 ng
 RT: 13.01 min Scan# 1704
 Delta R.T. -0.00 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Tgt Ion:	154	Resp:	7611
Ion Ratio	Lower	Upper	
154	100		
153	44.7	20.4	60.4
76	13.6	0.0	30.9





#52

Acenaphthene

Concen: 26.106 ng

RT: 14.25 min Scan# 1915

Delta R.T. -0.00 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Instrument :

BNA_M

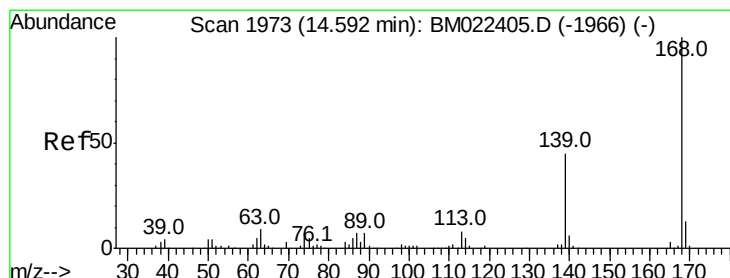
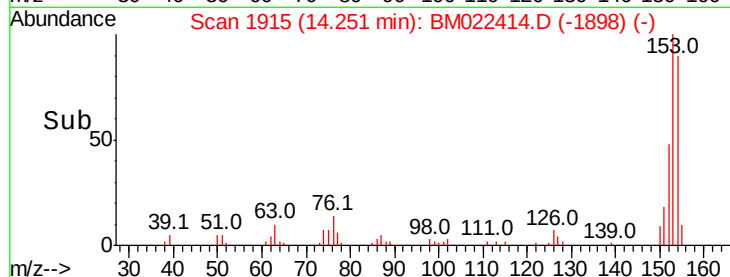
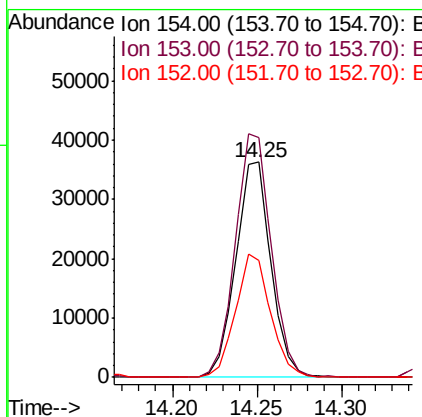
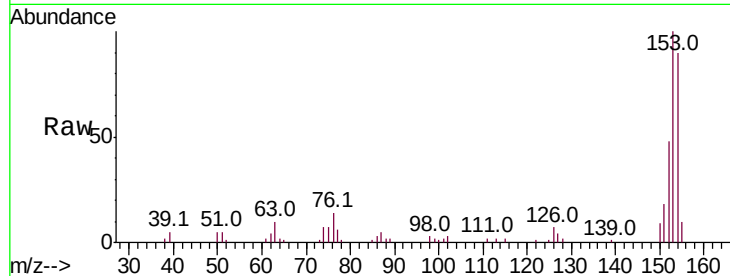
ClientSampleId :

S301-J-3.0-3.5-081919DL

Tot Ion:	154	Resp:	52561
Ion Ratio	Lower	Upper	
154	100		
153	111.6	94.3	141.5
152	54.1	45.4	68.2

Manual Integrations
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#55

Dibenzofuran

Concen: 21.275 ng

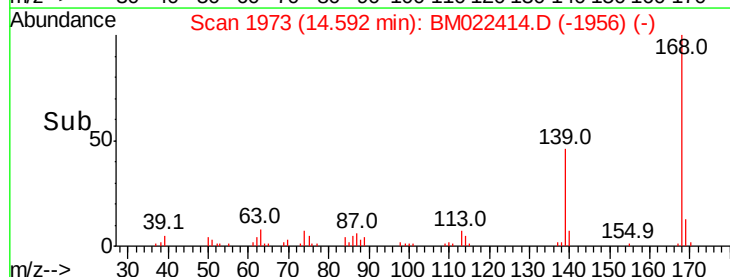
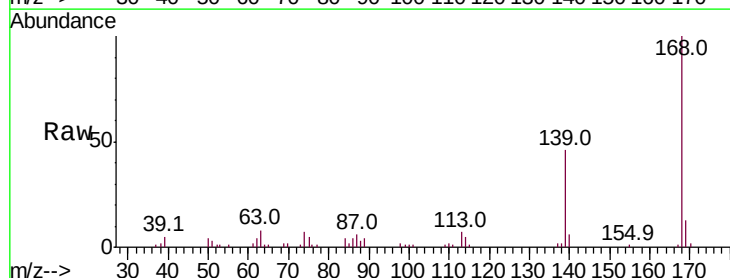
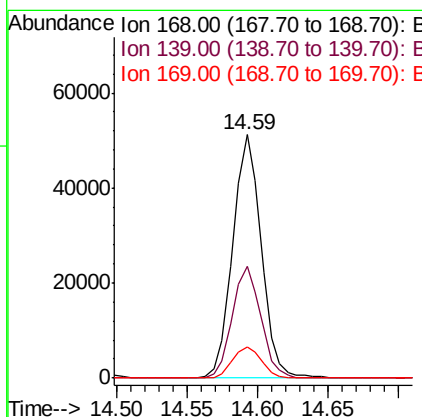
RT: 14.59 min Scan# 1973

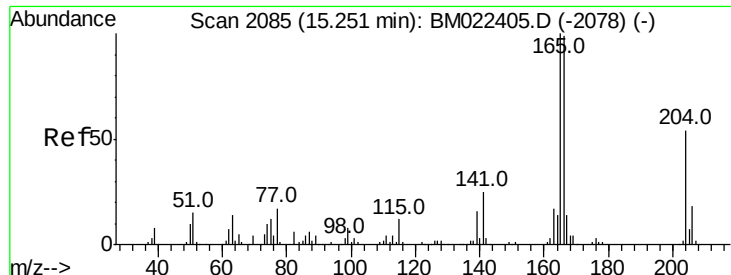
Delta R.T. -0.00 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Tgt Ion:	168	Resp:	72159
Ion Ratio	Lower	Upper	
168	100		
139	45.8	36.1	54.1
169	12.9	10.4	15.6





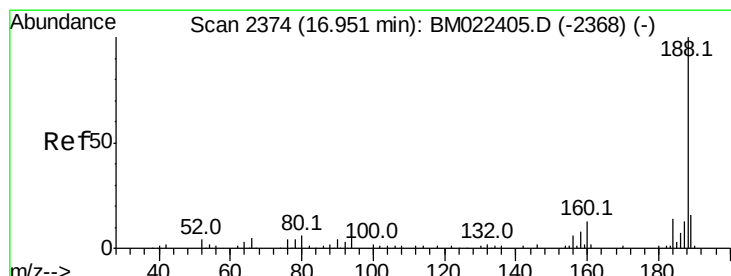
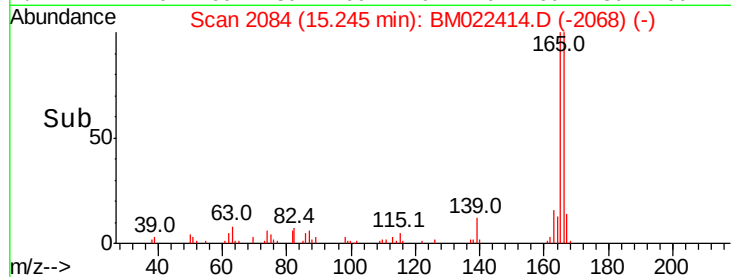
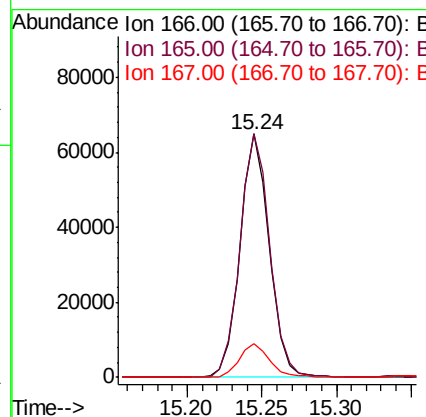
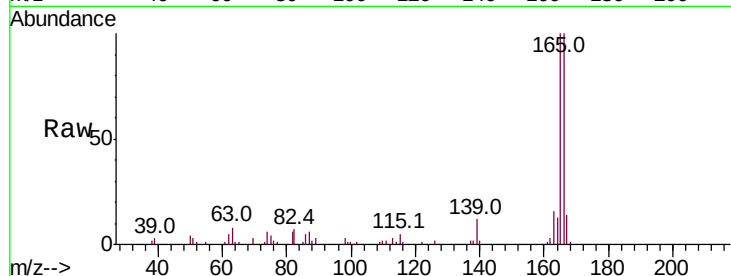
#58
Fluorene
 Concen: 29.215 ng
 RT: 15.24 min Scan# 2084
 Delta R.T. -0.01 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Instrument :
 BNA_M
 ClientSampleId :
 S301-J-3.0-3.5-081919DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.1	81.1	121.7
167	13.9	11.1	16.7

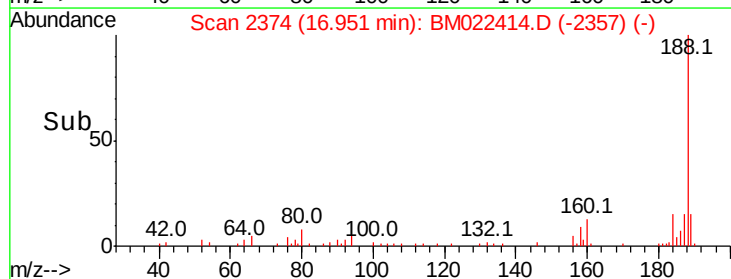
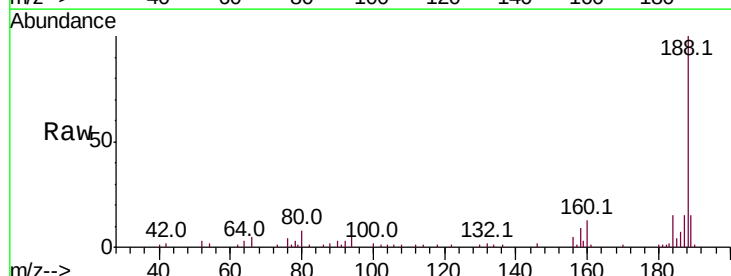
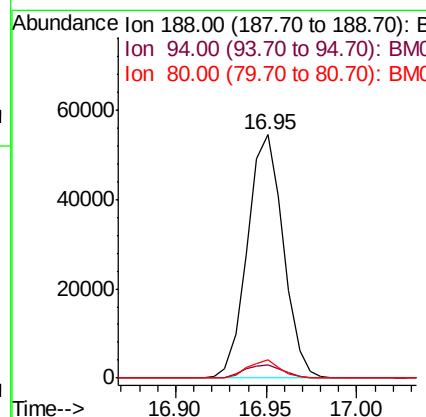
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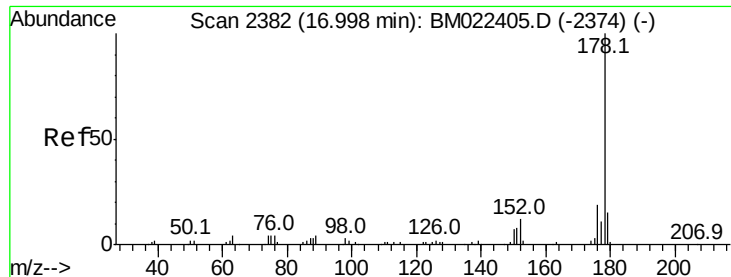
Jagrut
 8/30/2019 10:29:54 AM



#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 16.95 min Scan# 2374
 Delta R.T. -0.00 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.3	4.4	6.6
80	7.7	5.0	7.6





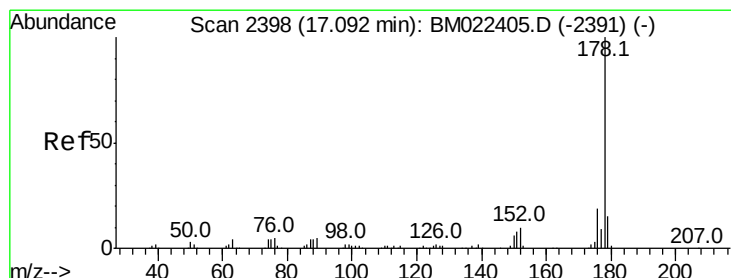
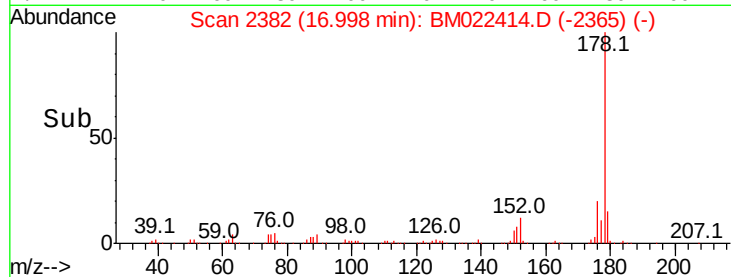
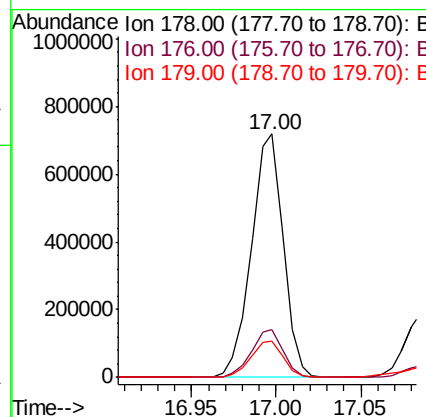
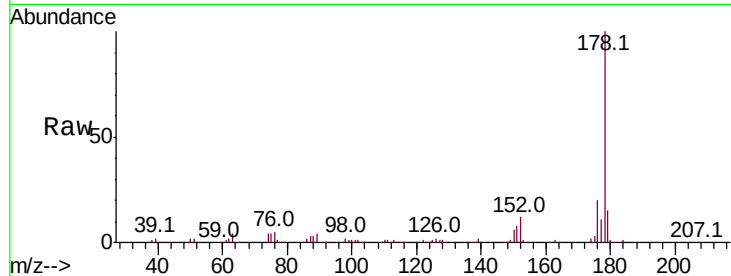
#71
 Phenanthrene
 Concen: 216.624 ng
 RT: 17.00 min Scan# 2382
 Delta R.T. -0.00 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Instrument :
 BNA_M
 ClientSampleId :
 S301-J-3.0-3.5-081919DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.0	12.3	18.5

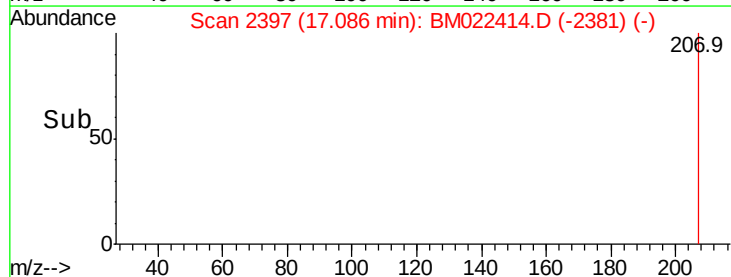
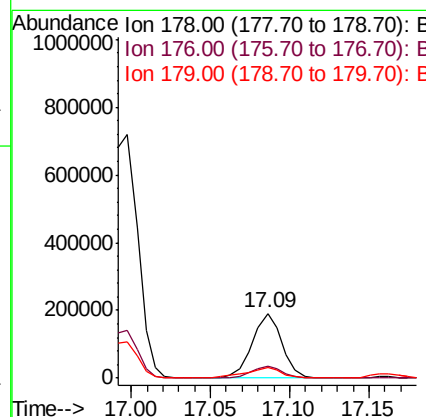
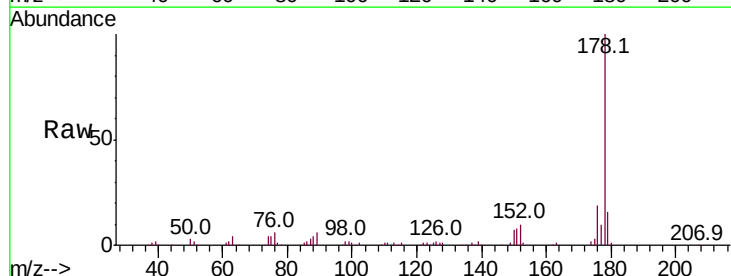
Manual Integrations
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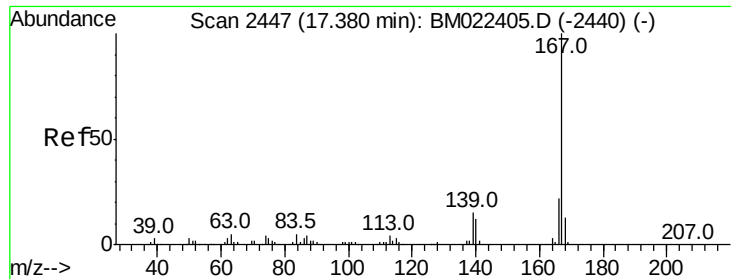
Jagrut
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#72
 Anthracene
 Concen: 57.205 ng
 RT: 17.09 min Scan# 2397
 Delta R.T. -0.01 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.0	22.4
179	15.9	11.8	17.6





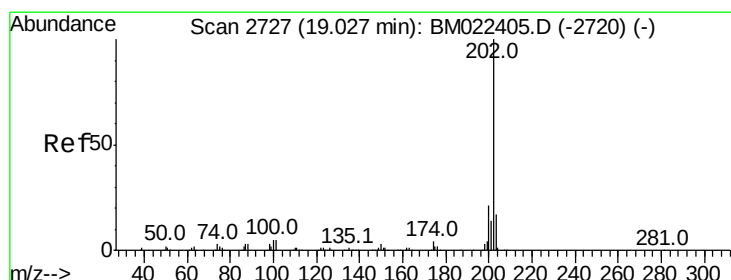
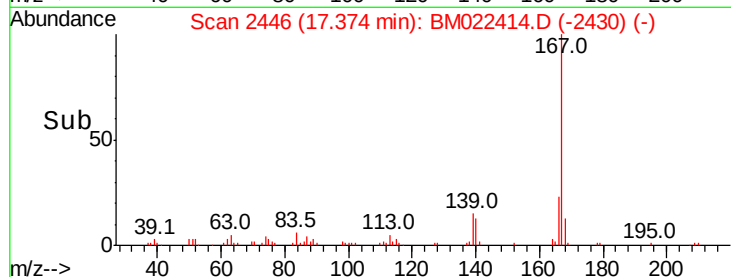
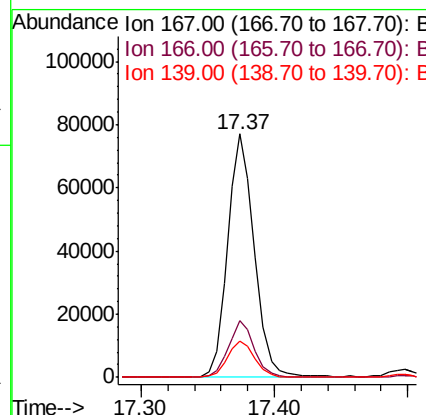
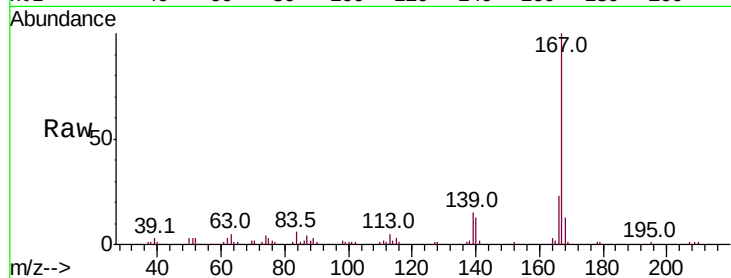
#73
 Carbazole
 Concen: 30.253 ng
 RT: 17.37 min Scan# 2446
 Delta R.T. -0.01 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Instrument :
 BNA_M
 ClientSampleId :
 S301-J-3.0-3.5-081919DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	23.1	17.8	26.6
139	14.7	11.6	17.4

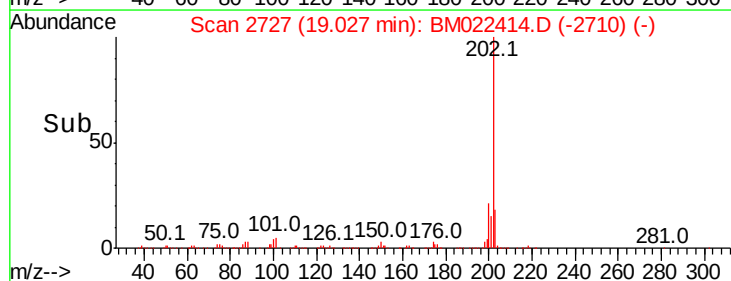
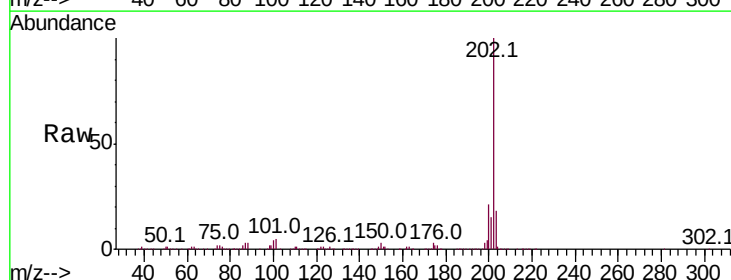
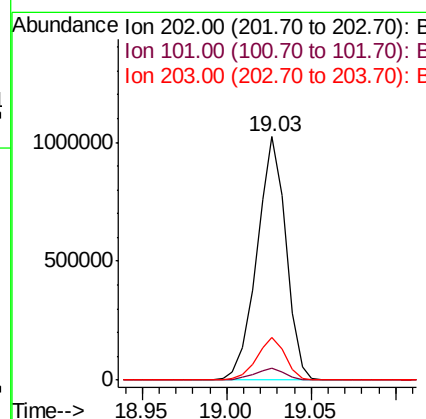
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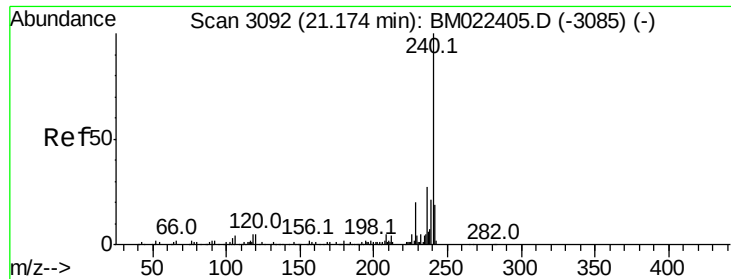
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#75
 Fluoranthene
 Concen: 210.549 ng
 RT: 19.03 min Scan# 2727
 Delta R.T. -0.00 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Tgt Ion	Ratio	Lower	Upper
202	100		
101	4.7	0.0	25.1
203	17.6	0.0	37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.17 min Scan# 3091

Delta R.T. -0.01 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Instrument :

BNA_M

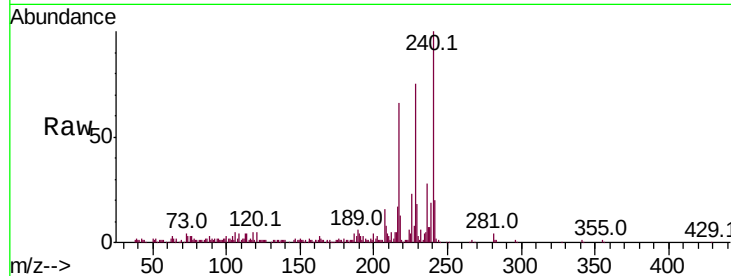
ClientSampleId :

S301-J-3.0-3.5-081919DL

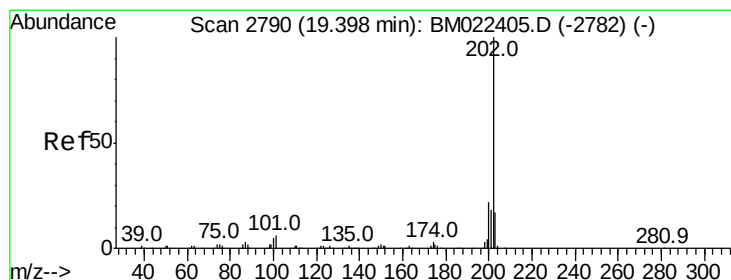
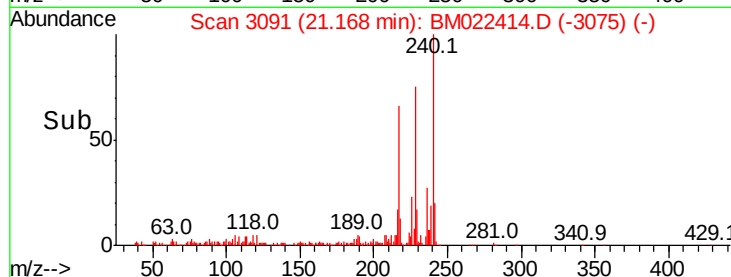
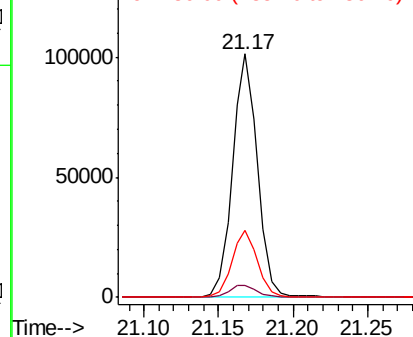
Tot Ion:	240	Resp:	118359
Ion Ratio	Lower	Upper	
240	100		
120	5.1	3.9	5.9
236	27.7	21.4	32.2

Manual Integrations
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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: 115.824 ng

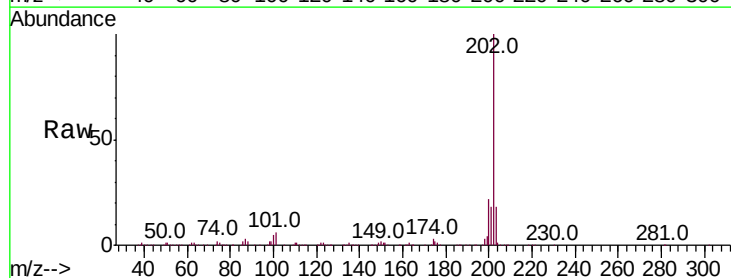
RT: 19.39 min Scan# 2789

Delta R.T. -0.01 min

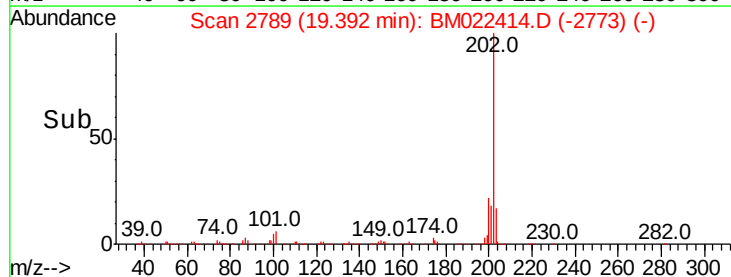
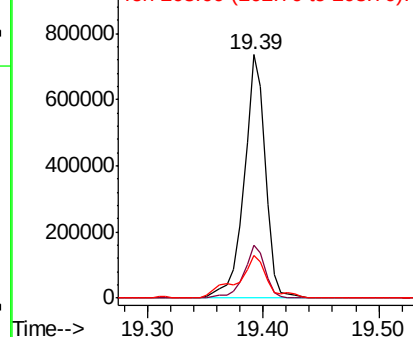
Lab File: BM022414.D

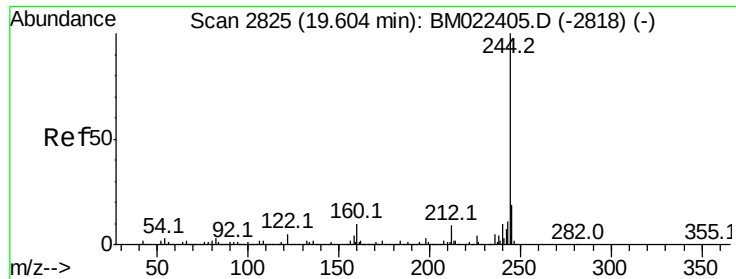
Acq: 29 Aug 2019 18:57

Tgt Ion:	202	Resp:	934253
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.7	26.5
203	17.6	13.8	20.8



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





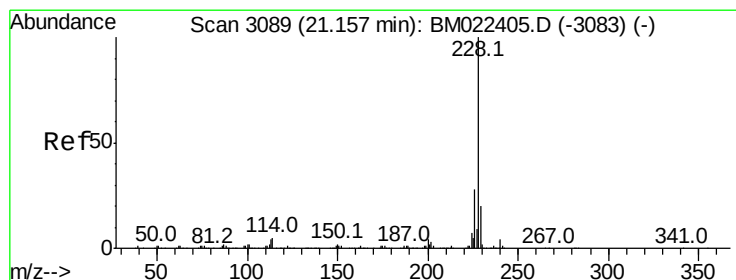
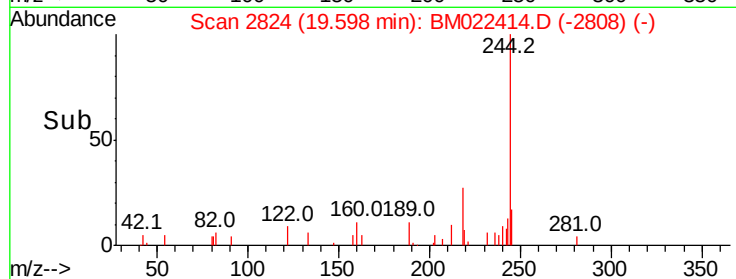
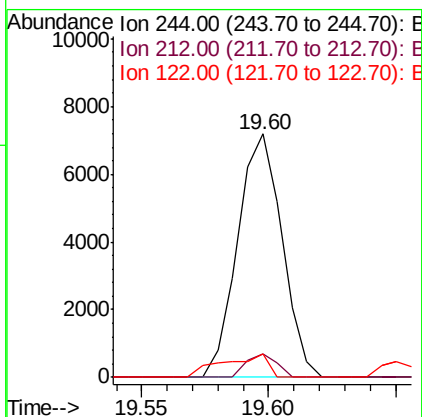
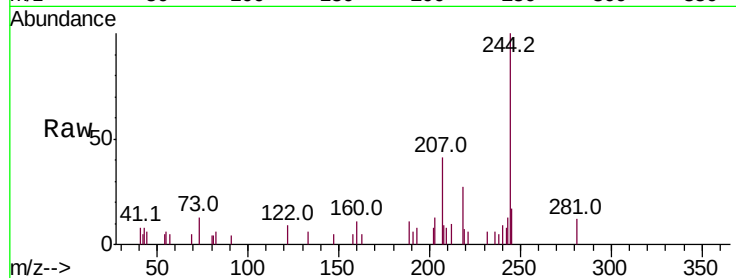
#79
 Terphenyl-d14
 Concen: 0.979 ng
 RT: 19.60 min Scan# 2824
 Delta R.T. -0.01 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Instrument :
 BNA_M
 ClientSampleId :
 S301-J-3.0-3.5-081919DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.0	10.4
122	9.4	3.9	5.9

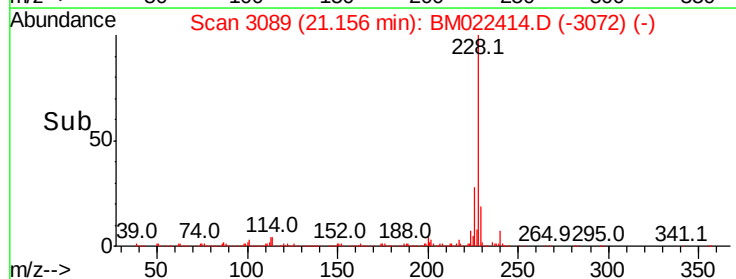
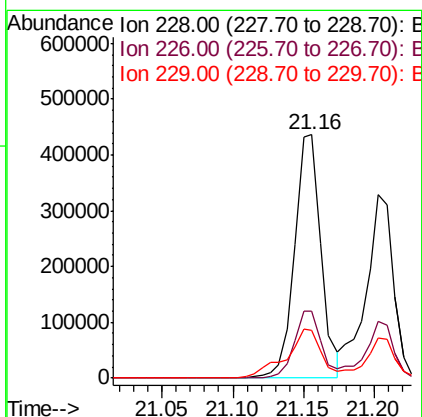
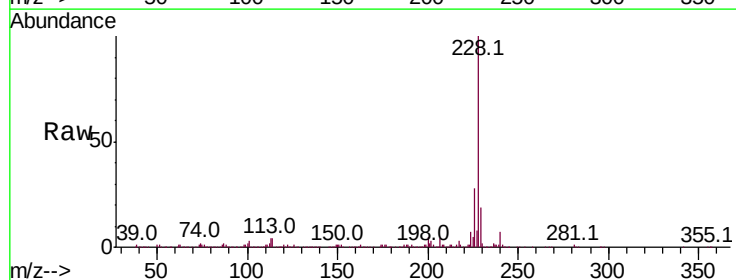
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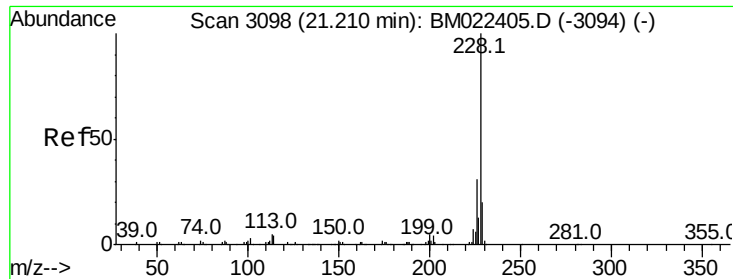
Jagrut
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#81
 Benzo(a)anthracene
 Concen: 66.539 ng
 RT: 21.16 min Scan# 3089
 Delta R.T. -0.00 min
 Lab File: BM022414.D
 Acq: 29 Aug 2019 18:57

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.6	34.0
229	19.4	15.9	23.9





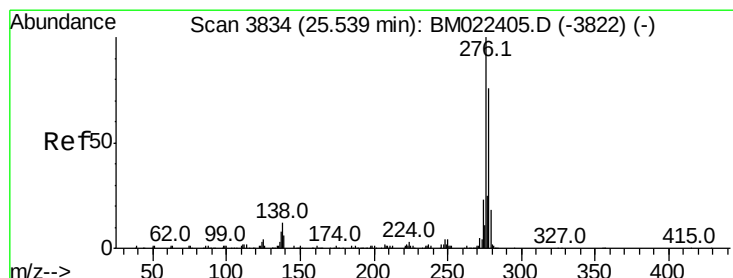
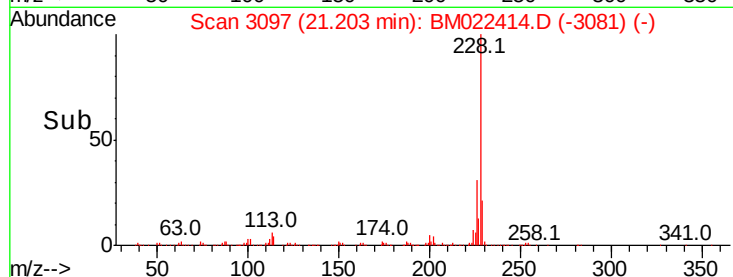
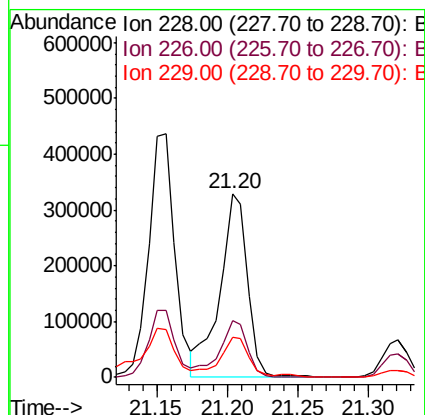
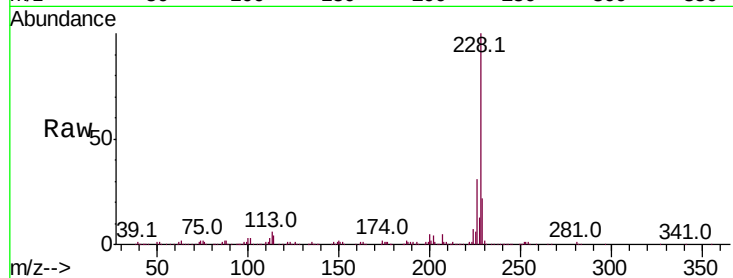
#83
Chrysene
Concen: 55.129 ng
RT: 21.20 min Scan# 3097
Delta R.T. -0.01 min
Lab File: BM022414.D
Acq: 29 Aug 2019 18:57

Instrument :
BNA_M
ClientSampleId :
S301-J-3.0-3.5-081919DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7
229	21.9	15.7	23.5

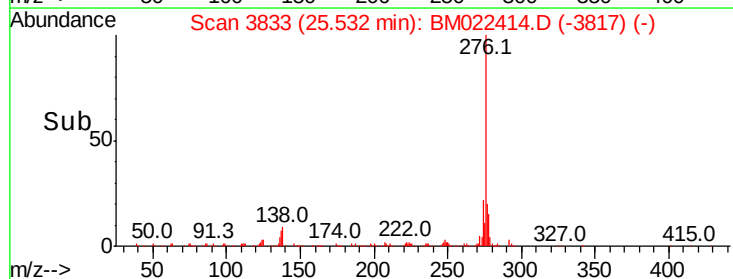
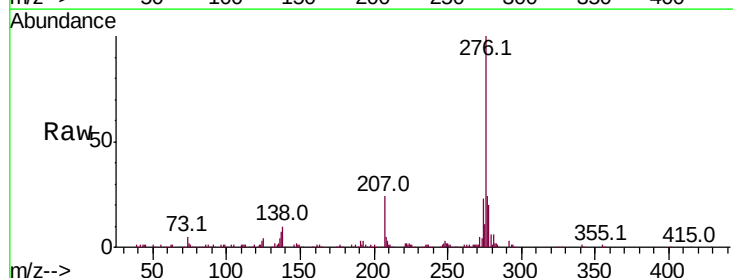
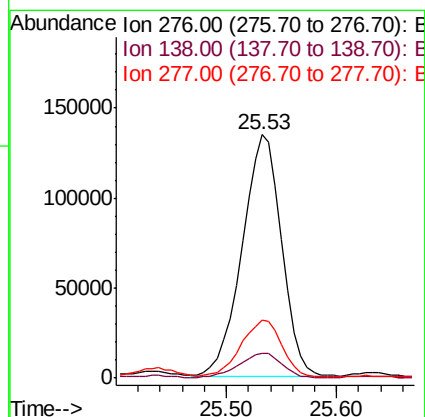
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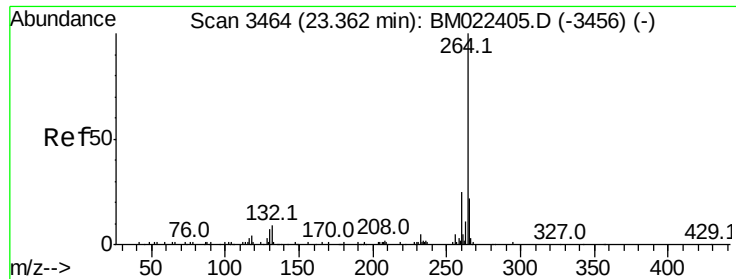
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#86
Indeno(1,2,3-cd)pyrene
Concen: 41.275 ng
RT: 25.53 min Scan# 3833
Delta R.T. -0.01 min
Lab File: BM022414.D
Acq: 29 Aug 2019 18:57

Tgt Ion	Ratio	Lower	Upper
276	100		
138	11.4	9.1	13.7
277	24.1	20.0	30.0





#87

Pervlene-d12

Concen: 20.000 ng/mL

RT: 23.36 min Scan# 3463

Delta R.T. -0.01 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Instrument :

BNA_M

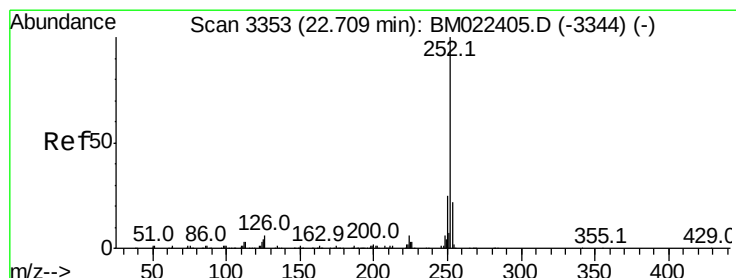
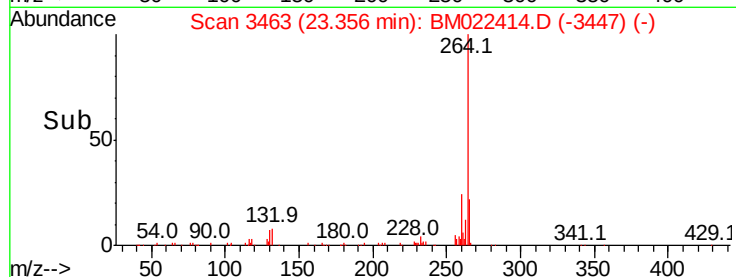
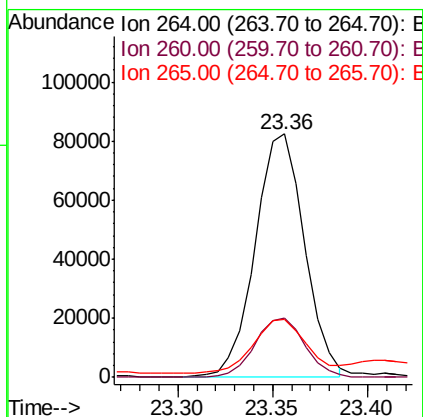
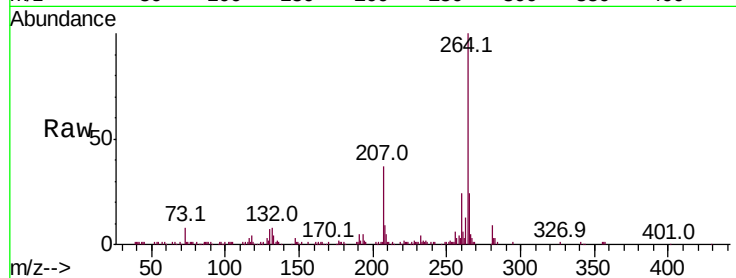
ClientSampleId :

S301-J-3.0-3.5-081919DL

Tot Ion:	264	Resp:	148672
Ion Ratio	Lower	Upper	
264	100		
260	24.2	20.2	30.2
265	23.8	18.2	27.2

Manual Integrations
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#88

Benzo(b)fluoranthene

Concen: 63.257 ng/mL

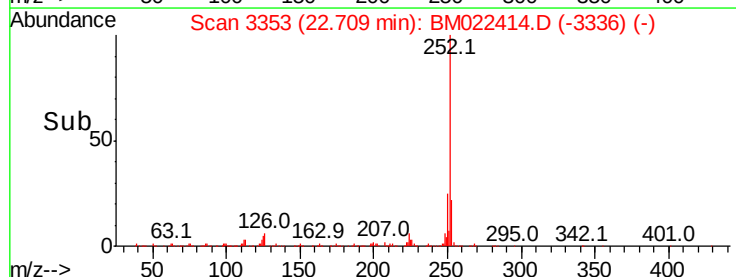
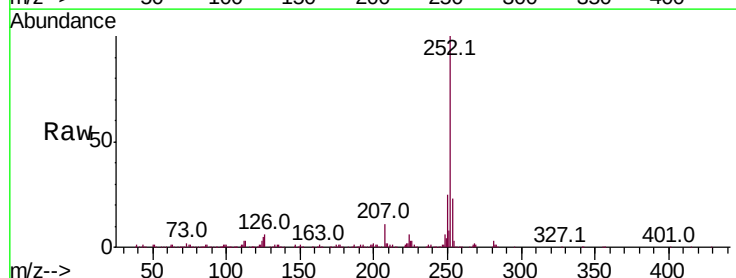
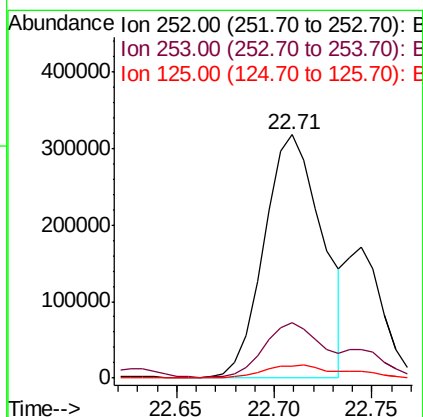
RT: 22.71 min Scan# 3353

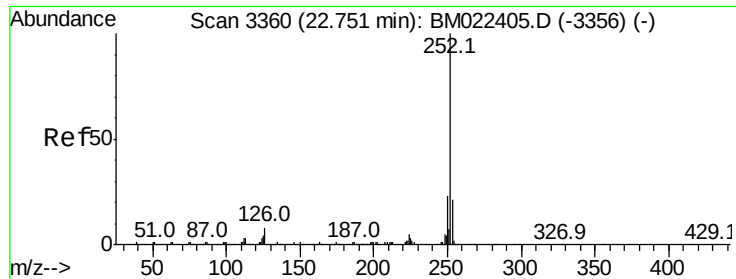
Delta R.T. -0.00 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Tgt Ion:	252	Resp:	653342
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.9	26.9
125	4.9	3.5	5.3





#89

Benzo(k)fluoranthene

Concen: 21.111 ng/mL

RT: 22.74 min Scan# 3359

Delta R.T. -0.01 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Instrument :

BNA_M

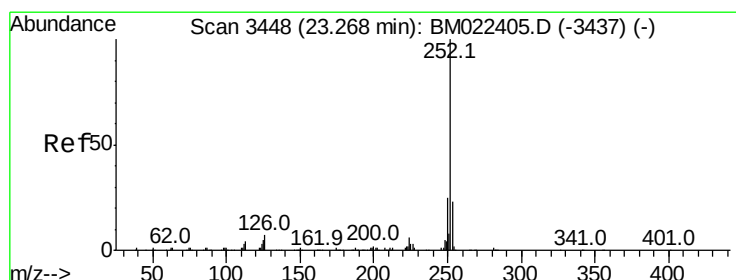
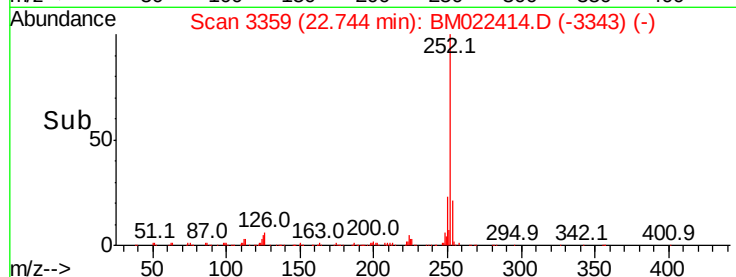
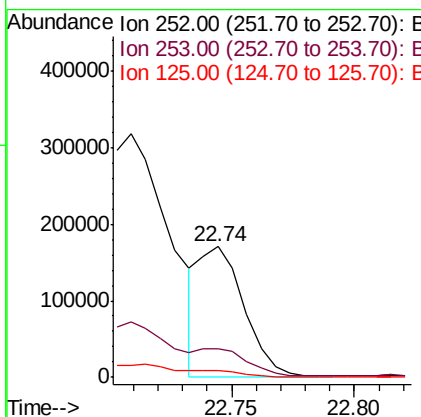
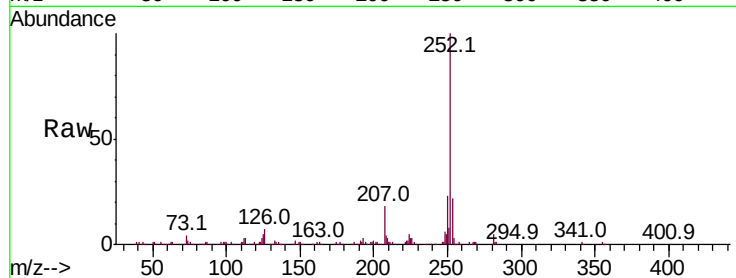
ClientSampleId :

S301-J-3.0-3.5-081919DL

Tot Ion:	252	Resp:	216301
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.0	25.4
125	5.2	3.7	5.5

Manual Integrations
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#90

Benzo(a)pyrene

Concen: 59.377 ng/mL

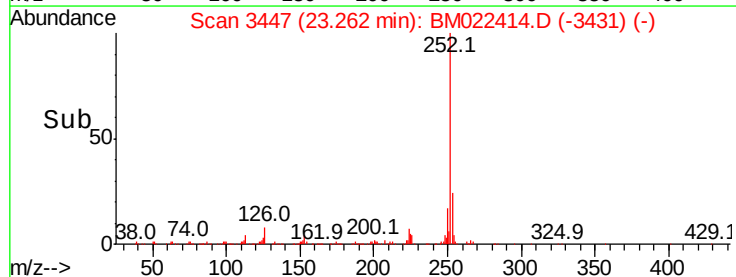
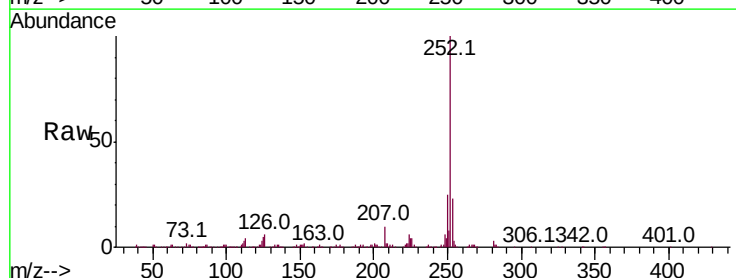
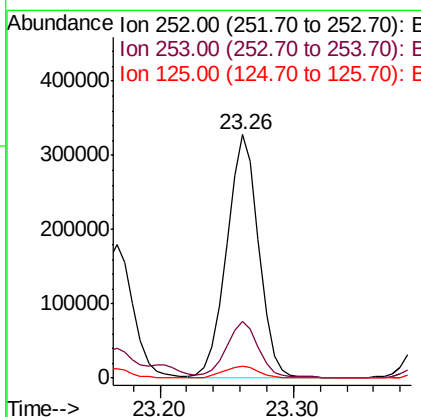
RT: 23.26 min Scan# 3447

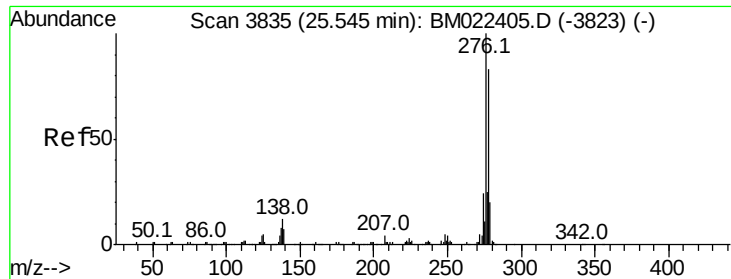
Delta R.T. -0.01 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Tgt Ion:	252	Resp:	544341
Ion Ratio	Lower	Upper	
252	100		
253	23.1	18.2	27.2
125	4.9	3.8	5.8





#91

Dibenzo(a,h)anthracene

Concen: 10.148 ng/mL

RT: 25.53 min Scan# 3833

Delta R.T. -0.01 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Instrument :

BNA_M

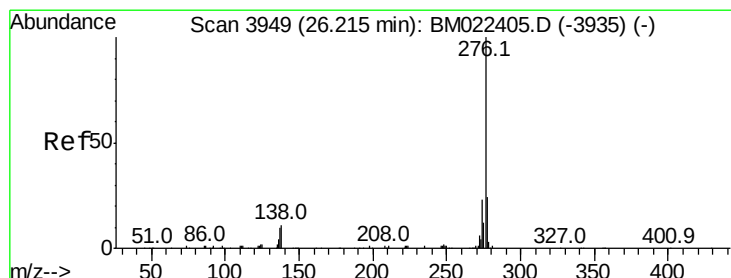
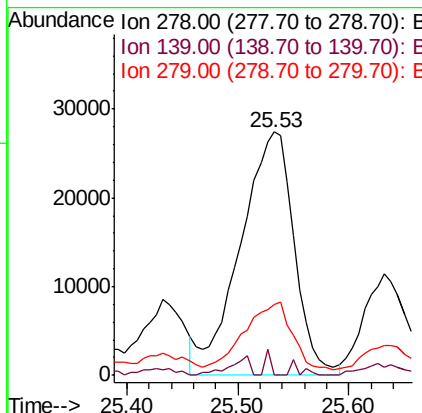
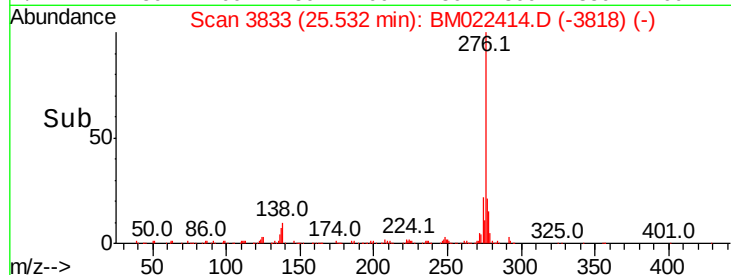
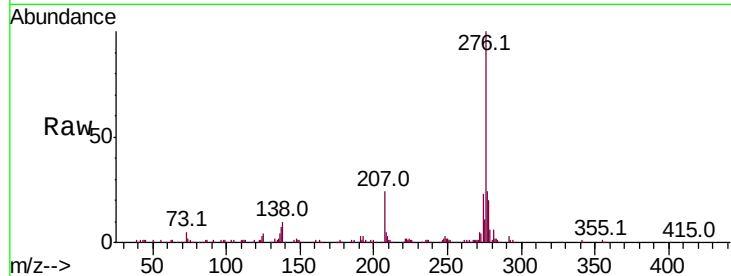
ClientSampleID :

S301-J-3.0-3.5-081919DL

Tot Ion:278	Resp:	92769
Ion Ratio	Lower	Upper
278	100	
139	0.0	6.6 9.8#
279	29.0	19.3 28.9#

Manual Integrations
APPROVED

Jagrut
8/30/2019 10:29:54 AM



#92

Benzo(g,h,i)perylene

Concen: 41.603 ng/mL

RT: 26.20 min Scan# 3947

Delta R.T. -0.01 min

Lab File: BM022414.D

Acq: 29 Aug 2019 18:57

Tgt Ion:276	Resp:	331457
Ion Ratio	Lower	Upper
276	100	
277	25.0	19.4 29.0
138	11.4	8.8 13.2

