

Data Path : Z:\HPCHEM1\BNA M\DATA\BM102717\
 Data File : BM012487.D
 Acq On : 27 Oct 2017 15:31
 Operator : SJ/JU
 Sample : I5719-09MSD 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-25(0.5-1.5)-100517MSD

Manual Integrations
 APPROVED

Sohil
 10/30/2017 6:30:16 PM

Quant Time: Oct 28 01:32:20 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Oct 26 09:35:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	488506	20.00	ng/ul	0.00
18) Naphthalene-d8	10.67	136	1758490	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.51	164	932785	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.26	188	1871407	20.00	ng/ul	0.00
75) Chrysene-d12	21.43	240	2215403	20.00	ng/ul	0.01
83) Perylene-d12	23.75	264	2496392	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.36	96	14211	1.49	ng/uL	0.00
5) Phenol-d5	7.05	99	291063	7.13	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.21	67	186745	7.71	ng/ul	0.00
9) 2-Chlorophenol-d4	7.42	132	243812	7.98	ng/ul	0.00
13) 4-Methylphenol-d8	8.59	113	231451	6.64	ng/ul	0.00
19) Nitrobenzene-d5	9.03	128	112039	10.17	ng/ul	0.00
22) 2-Nitrophenol-d4	9.76	143	107856	9.51	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.30	165	233916	7.78	ng/ul	0.00
29) 4-Chloroaniline-d4	10.81	131	66635	2.10	ng/ul	0.00
43) Dimethylphthalate-d6	13.92	166	660707	8.11	ng/ul	0.00
46) Acenaphthylene-d8	14.20	160	791759	8.21	ng/ul	0.00
51) 4-Nitrophenol-d4	14.72	143	74308	6.13	ng/ul	0.00
57) Fluorene-d10	15.50	176	525807	7.62	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.63	200	9089	1.00	ng/ul	0.01
70) Anthracene-d10	17.36	188	760060	8.52	ng/ul	0.00
76) Pyrene-d10	19.64	212	822398	8.09	ng/ul	0.01
87) Benzo(a)pyrene-d12	23.60	264	951774	8.03	ng/ul	0.02

Target Compounds

					Ovalue	
6) Phenol	7.08	94	364865	8.587	ng/ul#	84
10) 2-Chlorophenol	7.45	128	247631	7.917	ng/ul	99
15) N-Nitroso-di-n-propylamine	8.68	70	169815	5.678	ng/ul#	64
33) 4-Chloro-3-methylphenol	11.96	107	225778	6.854	ng/ul	99
44) Dimethylphthalate	13.96	163	326927	4.056	ng/ul	100
49) Acenaphthene	14.57	153	565052	8.967	ng/ul	99
52) 4-Nitrophenol	14.73	109	70717	5.754	ng/ul#	80
54) 2,4-Dinitrotoluene	14.88	165	115460	6.018	ng/ul#	83
58) Fluorene	15.56	166	119893	1.520	ng/ul	97
68) Pentachlorophenol	16.91	266	85056	6.271	ng/ul	97
69) Phenanthrene	17.30	178	3264020	32.252	ng/ul	99
71) Anthracene	17.39	178	821201	7.851	ng/ul	98
72) Carbazole	17.66	167	601395	6.941	ng/ul	99
74) Fluoranthene	19.32	202	8582649	74.844	ng/ul#	95
77) Pyrene	19.67	202	8604268	68.297	ng/ul#	92
80) Benzo(a)anthracene	21.42	228	6796866	51.234	ng/ul	97
81) Bis(2-ethylhexyl)phthalate	21.34	149	208770	2.765	ng/ul#	88
82) Chrysene	21.47	228	5914480m	50.143	ng/ul	
85) Benzo(b)fluoranthene	23.06	252	10879224	70.499	ng/ul#	96
86) Benzo(k)fluoranthene	23.09	252	3217678m	22.154	ng/ul	
88) Benzo(a)pyrene	23.65	252	8176647	55.573	ng/ul#	96
89) Indeno(1,2,3-cd)pyrene	26.11	276	5653780	32.650	ng/ul#	98
90) Dibenzo(a,h)anthracene	26.11	278	1553545	10.582	ng/ul#	86

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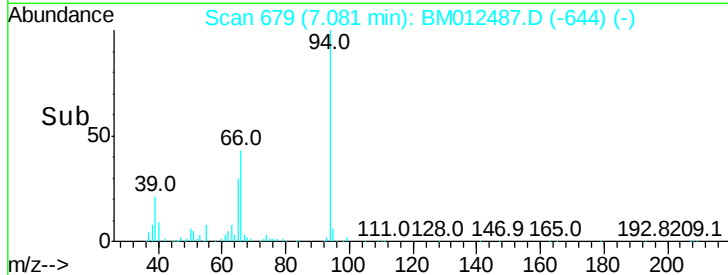
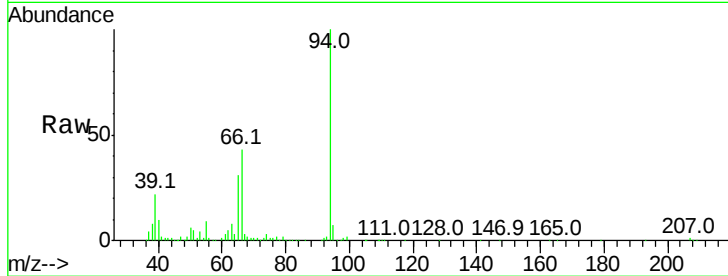
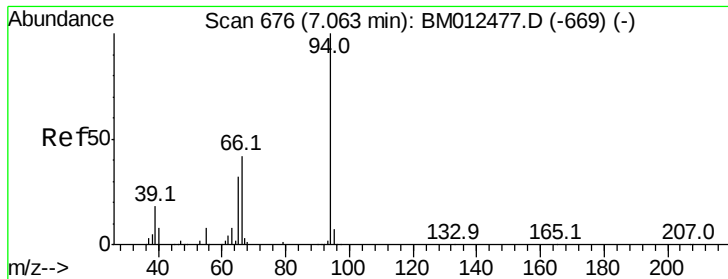
Manual Integrations
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10/30/2017 6:30:16 PM

Quant Time: Oct 28 01:32:20 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Oct 26 09:35:31 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(q,h,i)perylene	26.84	276	4913237	35.009	ng/ul#	95

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



#6

Phenol

Concen: 8.587 ng/ul

RT: 7.08 min Scan# 679

Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Tot Ion	94	Resp	364865
Ion Ratio	100	Lower	Upper
94	100		
65	30.8	28.2	42.4
66	43.3	47.2	70.8#

Instrument :

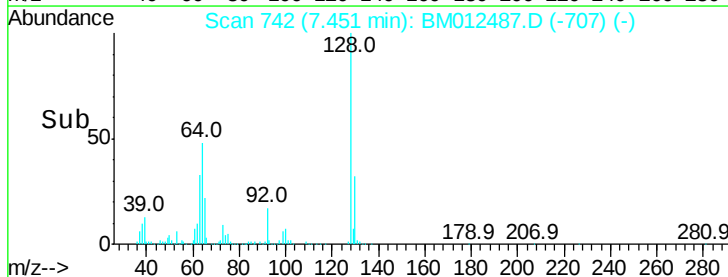
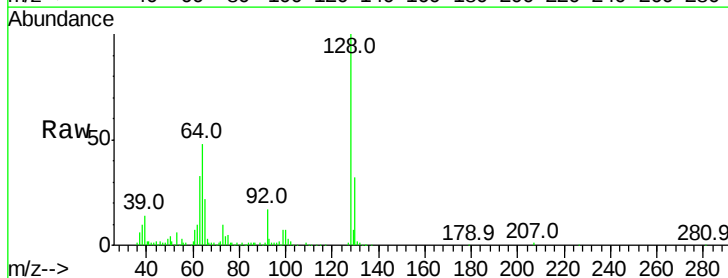
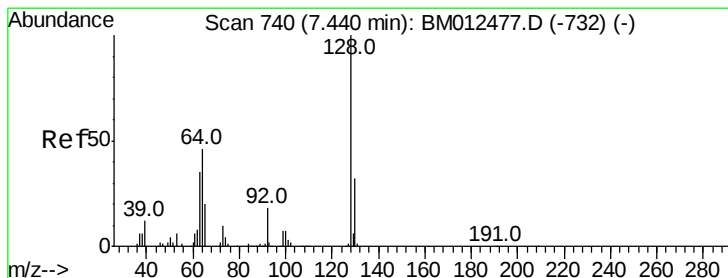
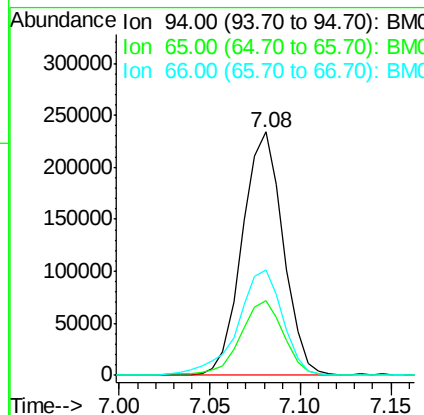
BNA_M

ClientSampleId :

B-25(0.5-1.5)-100517MSD

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#10

2-Chlorophenol

Concen: 7.917 ng/ul

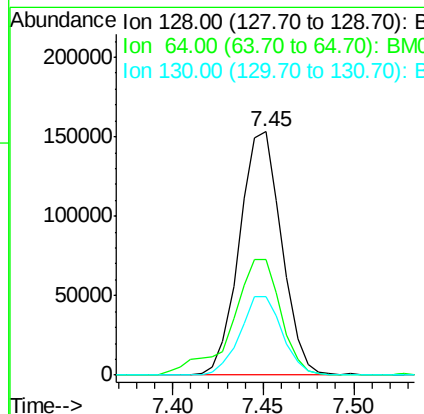
RT: 7.45 min Scan# 742

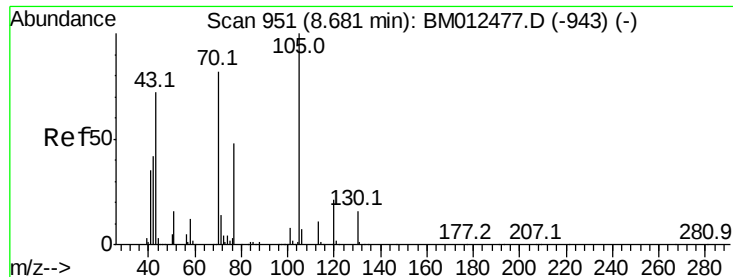
Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Tgt Ion	128	Resp	247631
Ion Ratio	100	Lower	Upper
128	100		
64	47.6	38.0	57.0
130	32.0	24.4	36.6





#15

N-Nitroso-di-n-propylamine

Concen: 5.678 ng/ul

RT: 8.68 min Scan# 951

Delta R.T. -0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Instrument :

BNA_M

ClientSampleId :

B-25(0.5-1.5)-100517MSD

Tot Ion: 70 Resp: 169815

Ion Ratio Lower Upper

70 100

42 50.7 76.0 114.0#

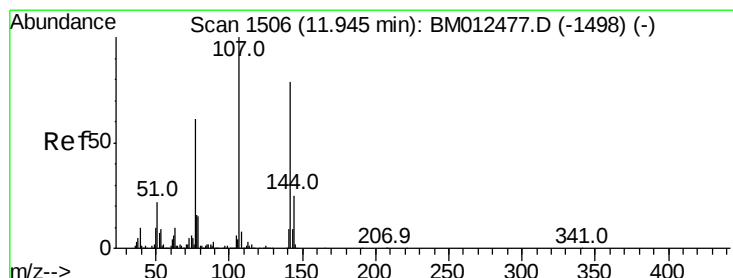
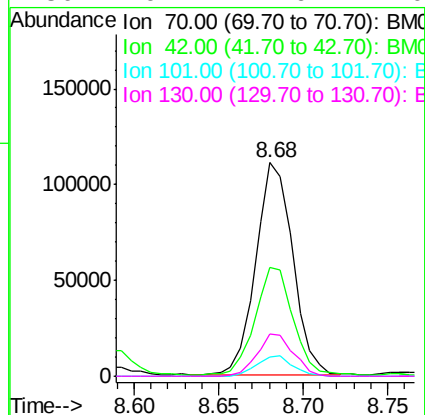
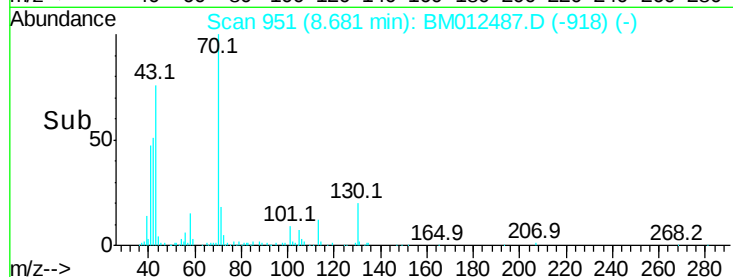
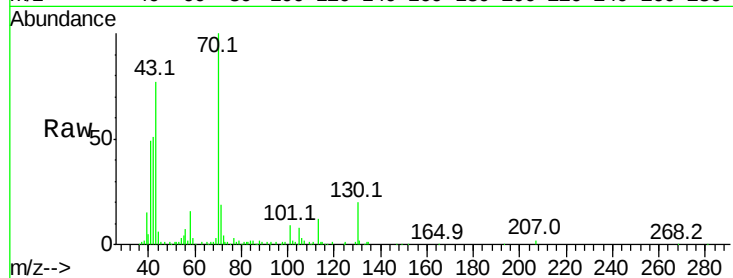
101 9.2 6.7 10.1

130 19.7 14.6 22.0

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#33

4-Chloro-3-methylphenol

Concen: 6.854 ng/ul

RT: 11.96 min Scan# 1509

Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

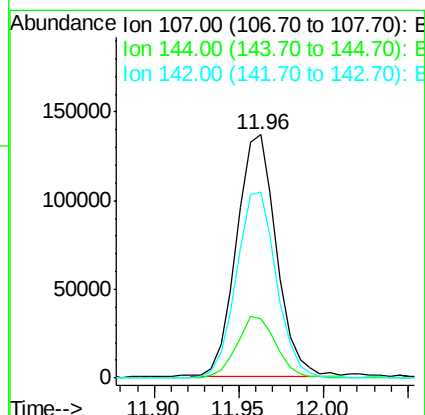
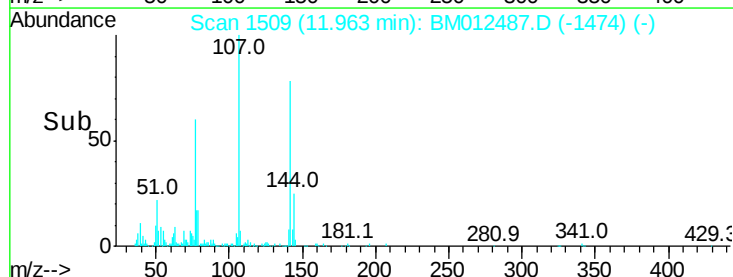
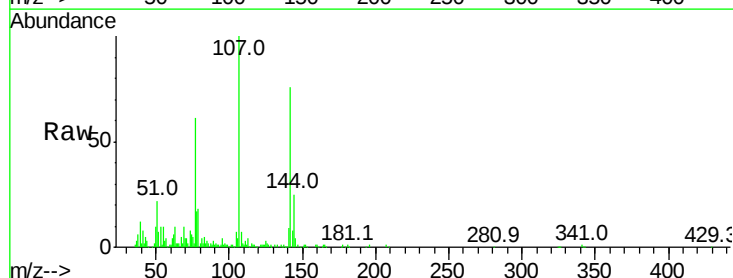
Tgt Ion: 107 Resp: 225778

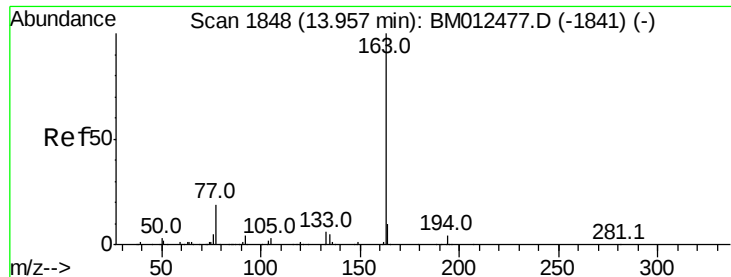
Ion Ratio Lower Upper

107 100

144 24.6 20.4 30.6

142 76.5 60.5 90.7





#44

Dimethylphthalate

Concen: 4.056 ng/ul

RT: 13.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Instrument :

BNA_M

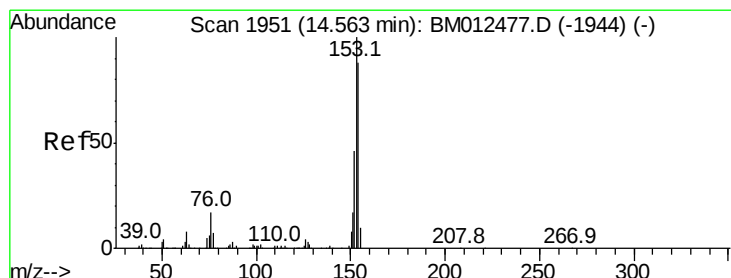
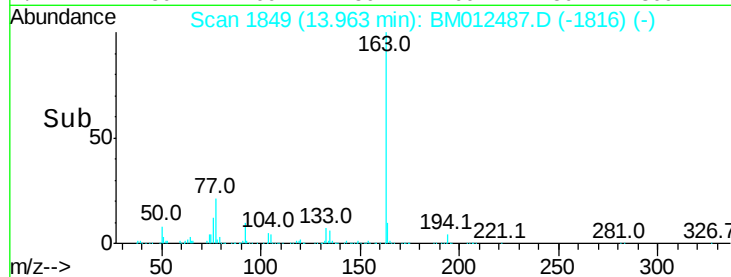
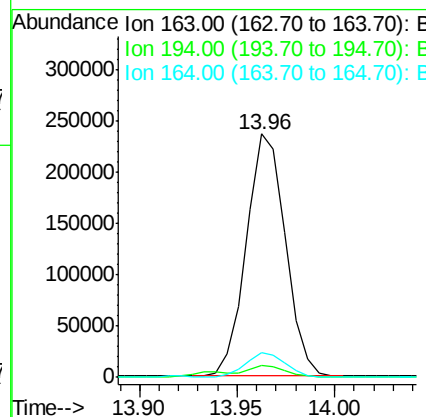
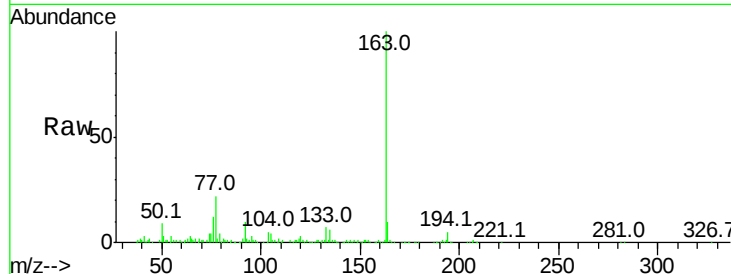
ClientSampleId :

B-25(0.5-1.5)-100517MSD

Tot Ion:	163	Resp:	326927
Ion Ratio	Lower	Upper	
163	100		
194	4.7	3.5	5.3
164	10.2	8.2	12.4

Manual Integrations
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#49

Acenaphthene

Concen: 8.967 ng/ul

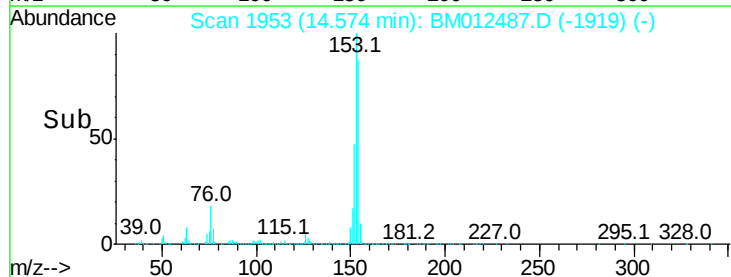
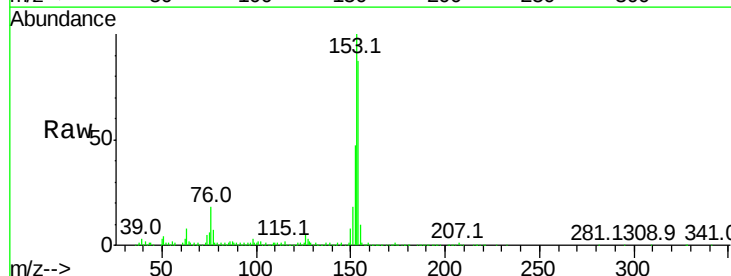
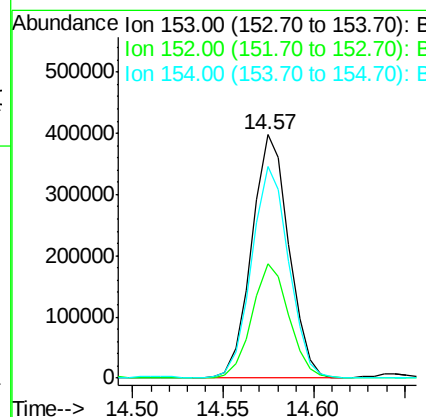
RT: 14.57 min Scan# 1953

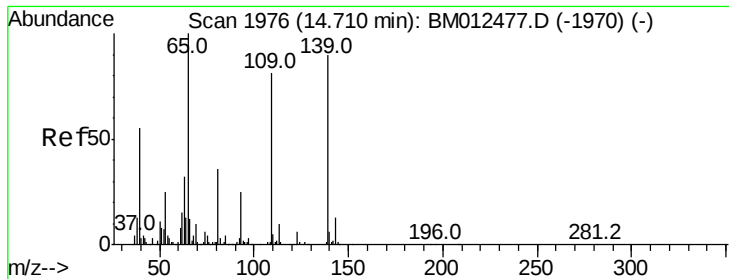
Delta R.T. -0.00 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Tgt Ion:	153	Resp:	565052
Ion Ratio	Lower	Upper	
153	100		
152	47.0	37.6	56.4
154	86.9	70.4	105.6





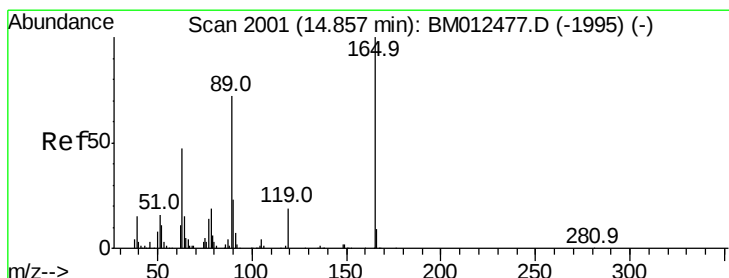
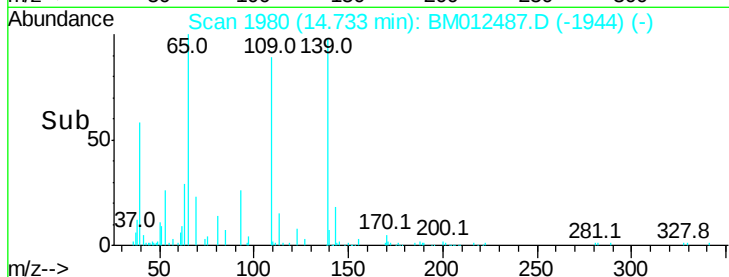
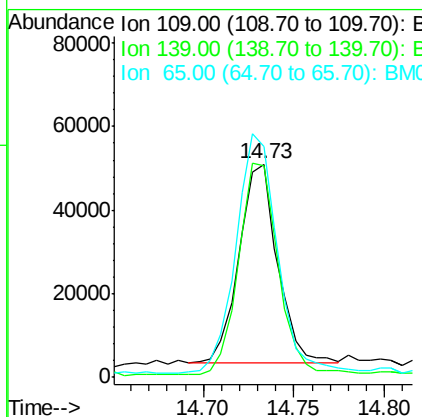
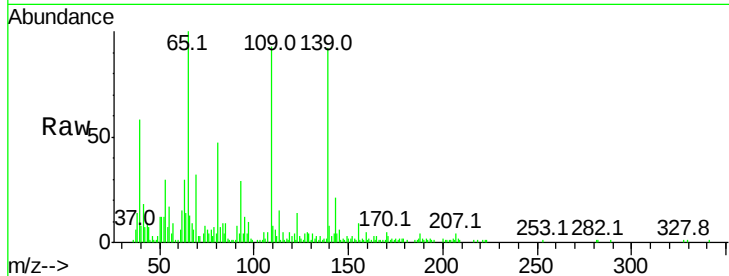
#52
4-Nitrophenol
Concen: 5.754 ng/ul
RT: 14.73 min Scan# 1980
Delta R.T. 0.01 min
Lab File: BM012487.D
Acq: 27 Oct 2017 15:31

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Tot Ion	Ratio	Lower	Upper
109	100		
139	98.9	80.0	120.0
65	107.9	120.0	180.0#

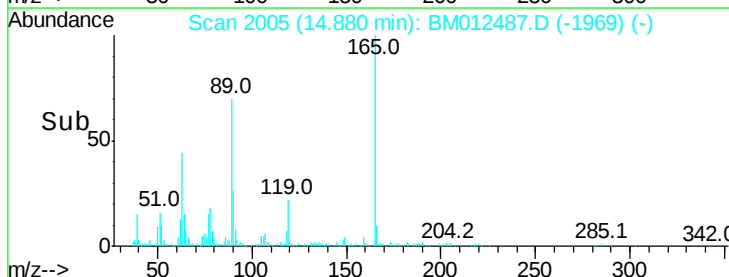
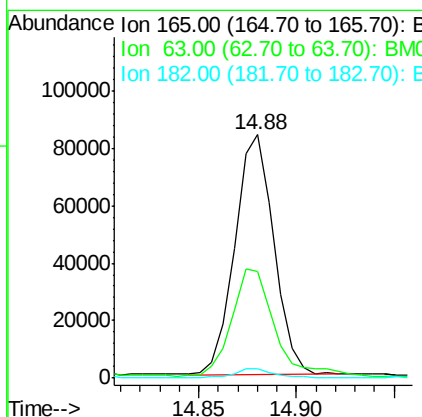
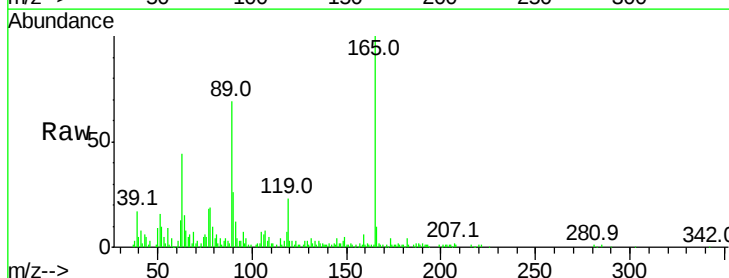
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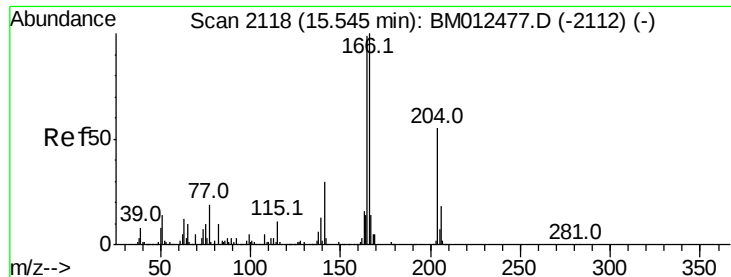
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#54
2,4-Dinitrotoluene
Concen: 6.018 ng/ul
RT: 14.88 min Scan# 2005
Delta R.T. 0.01 min
Lab File: BM012487.D
Acq: 27 Oct 2017 15:31

Tgt Ion	Ratio	Lower	Upper
165	100		
63	43.7	45.8	68.8#
182	3.6	2.6	4.0





#58

Fluorene

Concen: 1.520 ng/ul

RT: 15.56 min Scan# 2121

Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Instrument :

BNA_M

ClientSampleId :

B-25(0.5-1.5)-100517MSD

Tot Ion:166 Resp: 119893

Ion Ratio Lower Upper

166 100

165 94.5 77.9 116.9

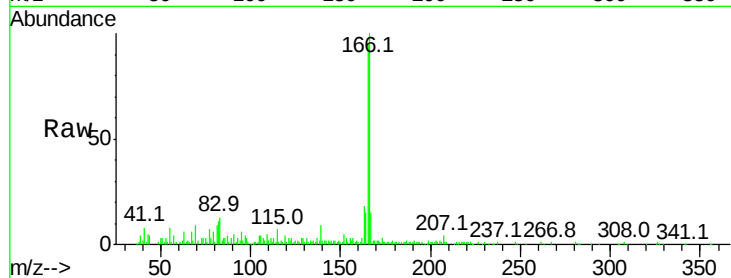
167 14.8 10.6 16.0

Manual Integrations

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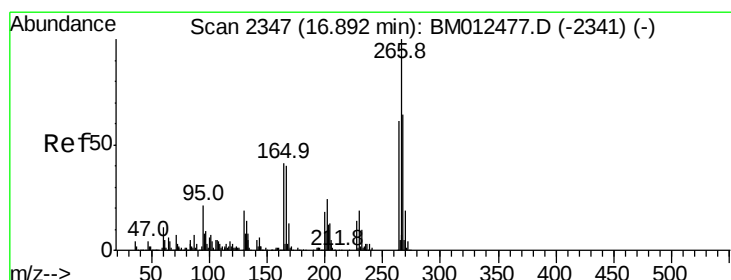
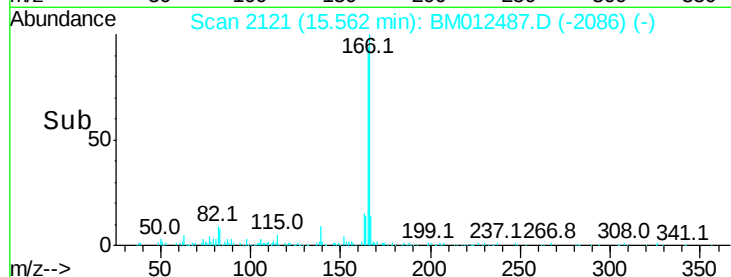
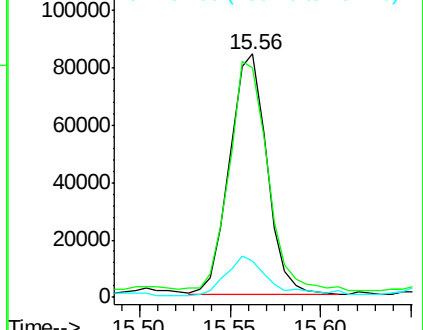
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#68

Pentachlorophenol

Concen: 6.271 ng/ul

RT: 16.91 min Scan# 2350

Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

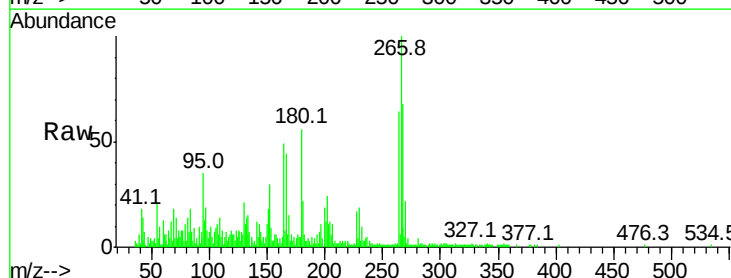
Tgt Ion:266 Resp: 85056

Ion Ratio Lower Upper

266 100

264 64.0 49.3 73.9

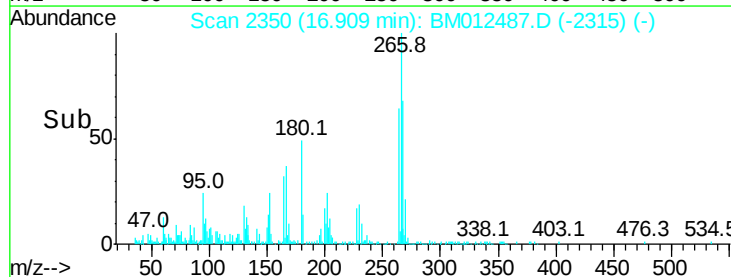
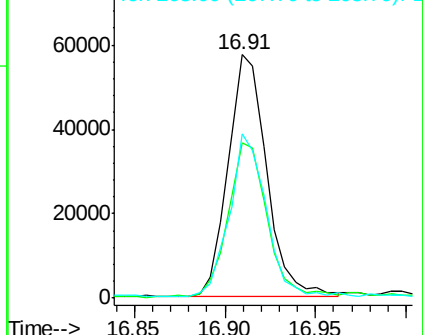
268 67.5 52.6 78.8

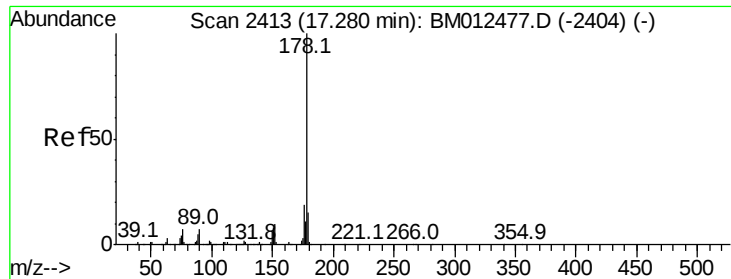


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#69

Phenanthrene

Concen: 32.252 ng/ul

RT: 17.30 min Scan# 2416

Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Instrument :

BNA_M

ClientSampleId :

B-25(0.5-1.5)-100517MSD

Tot Ion:178 Resp: 3264020

Ion Ratio Lower Upper

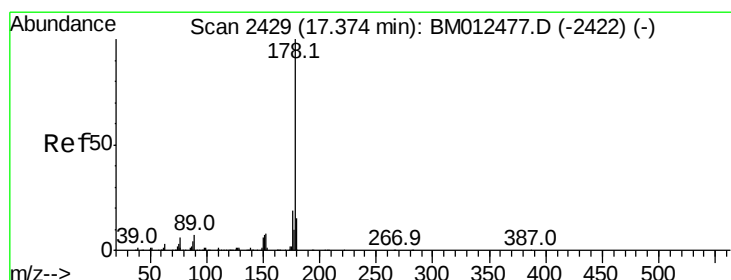
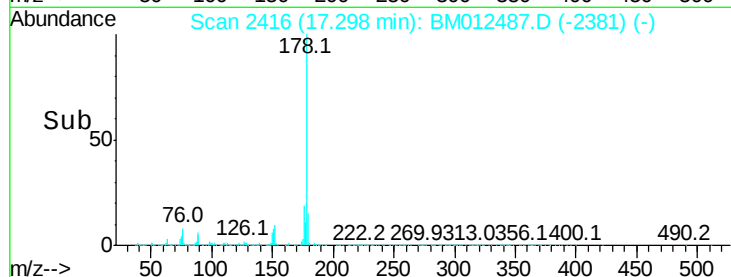
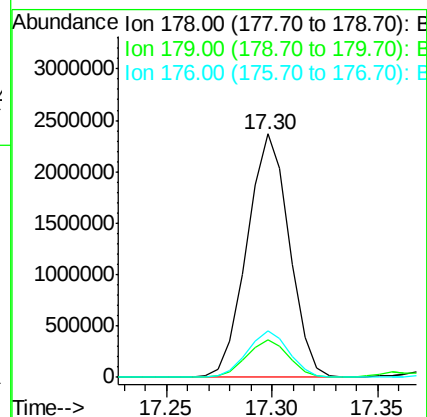
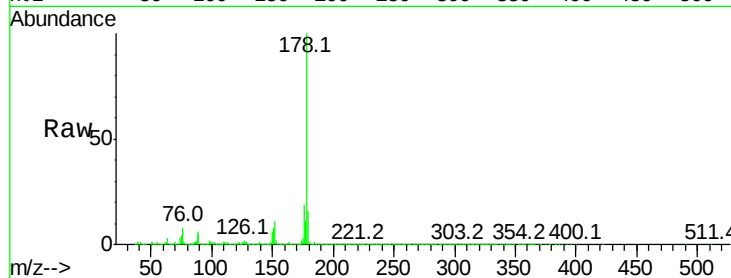
178 100

179 15.5 12.6 19.0

176 19.1 14.9 22.3

Manual Integrations
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#71

Anthracene

Concen: 7.851 ng/ul

RT: 17.39 min Scan# 2431

Delta R.T. -0.00 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

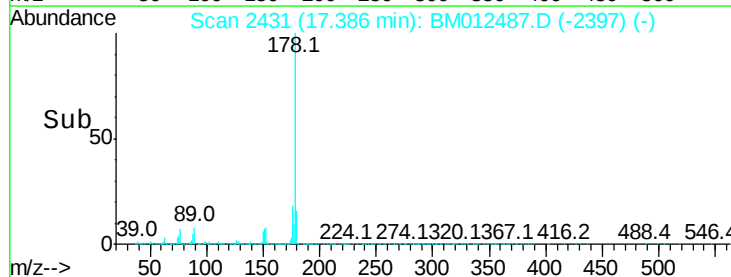
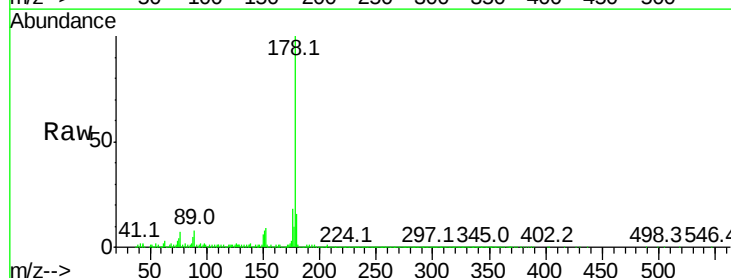
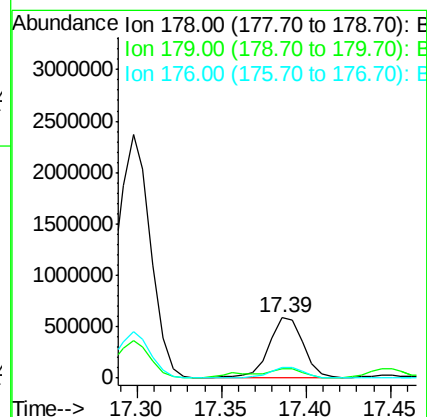
Tgt Ion:178 Resp: 821201

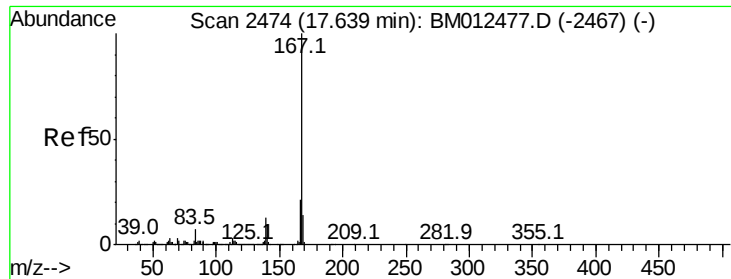
Ion Ratio Lower Upper

178 100

179 16.5 11.7 17.5

176 18.5 14.6 21.8





#72

Carbazole

Concen: 6.941 ng/ul

RT: 17.66 min Scan# 2477

Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Instrument :

BNA_M

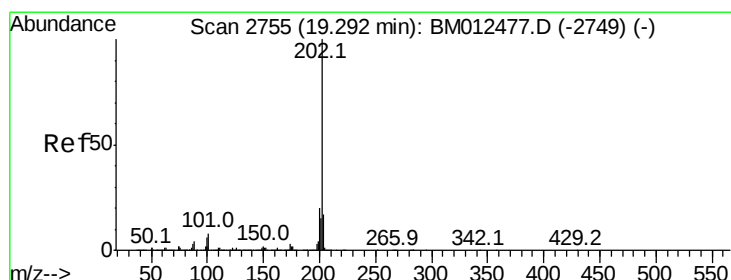
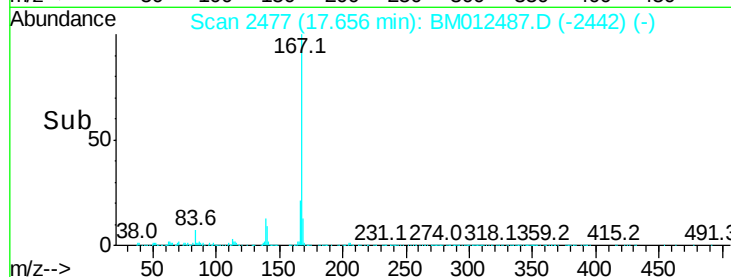
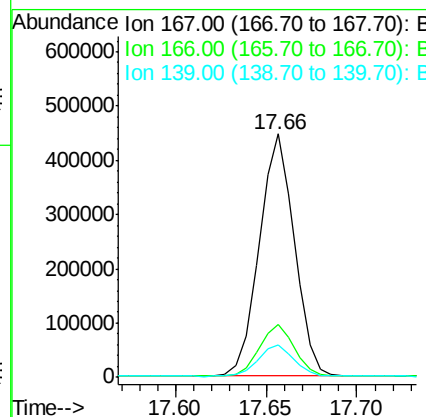
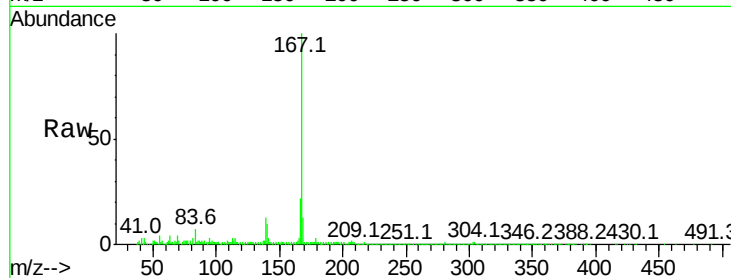
ClientSampleId :

B-25(0.5-1.5)-100517MSD

Tot Ion:	167	Resp:	601395
Ion Ratio	Lower	Upper	
167	100		
166	21.6	17.1	25.7
139	13.1	10.0	15.0

Manual Integrations
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#74

Fluoranthene

Concen: 74.844 ng/ul

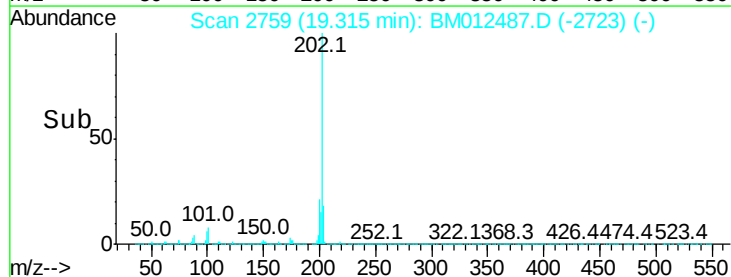
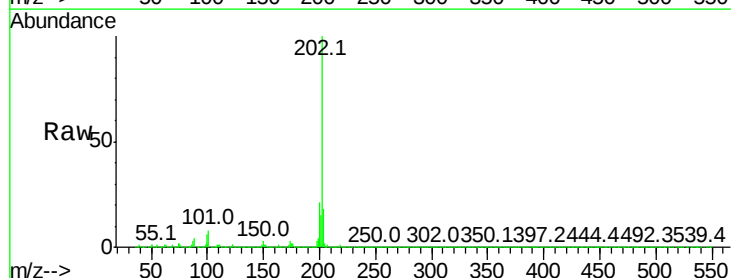
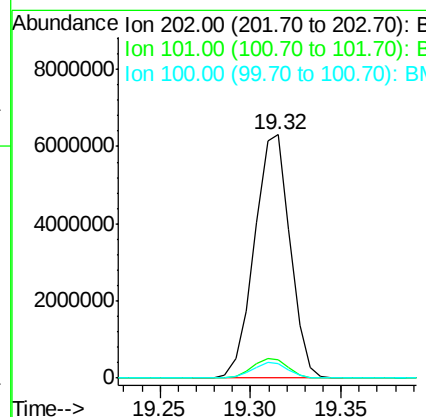
RT: 19.32 min Scan# 2759

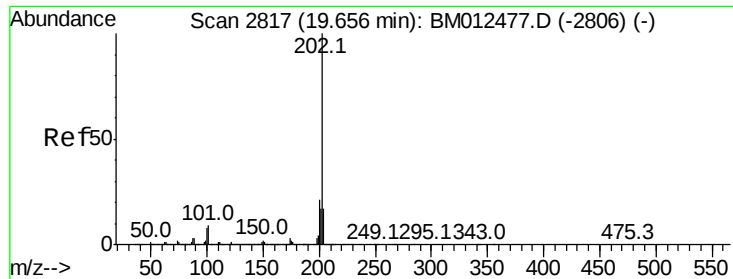
Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Tgt Ion:	202	Resp:	8582649
Ion Ratio	Lower	Upper	
202	100		
101	7.6	4.6	7.0#
100	6.0	3.4	5.2#





#77

Pvrene

Concen: 68.297 ng/ul

RT: 19.67 min Scan# 2820

Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Instrument :

BNA_M

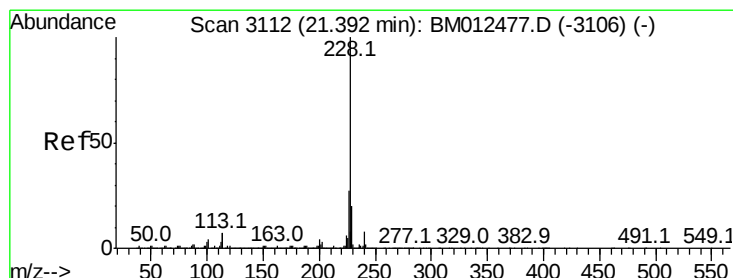
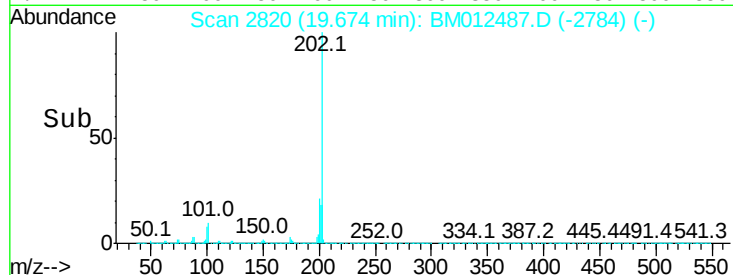
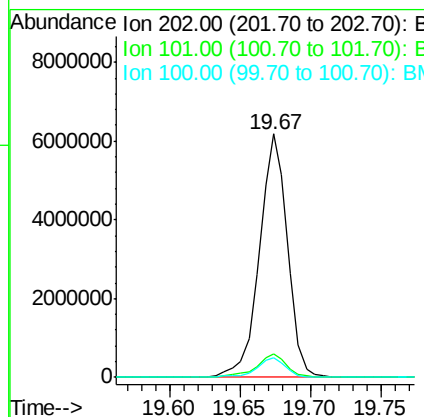
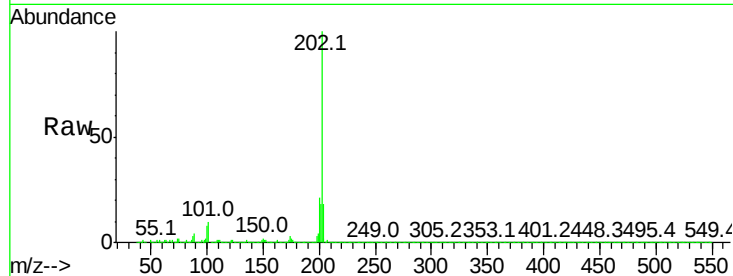
ClientSampleId :

B-25(0.5-1.5)-100517MSD

Tot Ion:	202	Resp:	8604268
Ion Ratio	Lower	Upper	
202	100		
101	9.8	5.1	7.7#
100	8.2	4.9	7.3#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 51.234 ng/ul

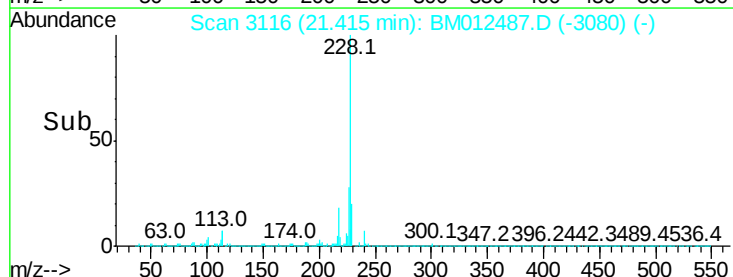
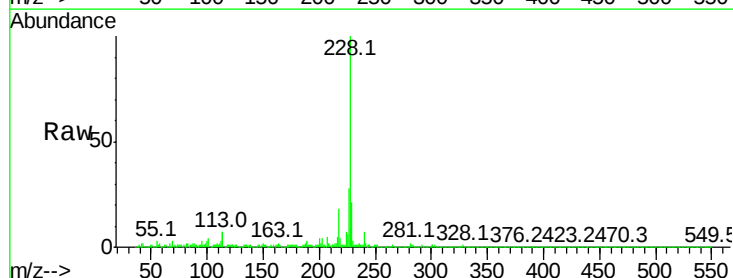
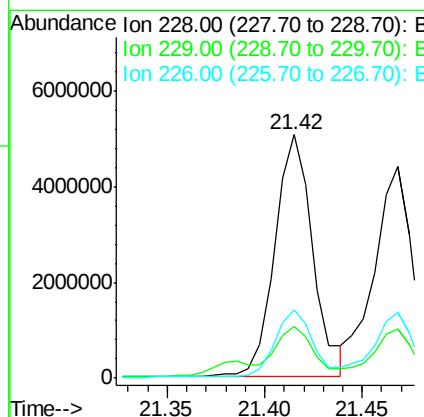
RT: 21.42 min Scan# 3116

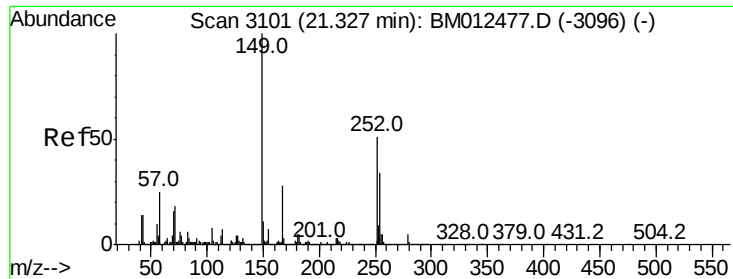
Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Tgt Ion:	228	Resp:	6796866
Ion Ratio	Lower	Upper	
228	100		
229	21.0	15.4	23.0
226	28.1	21.4	32.0





#81

Bis(2-ethylhexyl)phthalate

Concen: 2.765 ng/ul

RT: 21.34 min Scan# 3103

Delta R.T. -0.00 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Instrument :

BNA_M

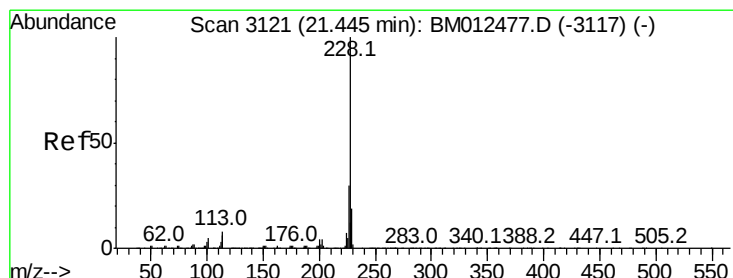
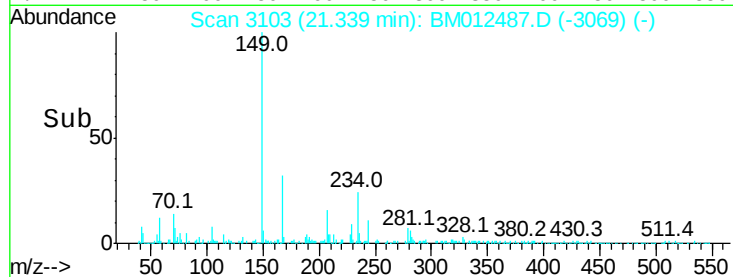
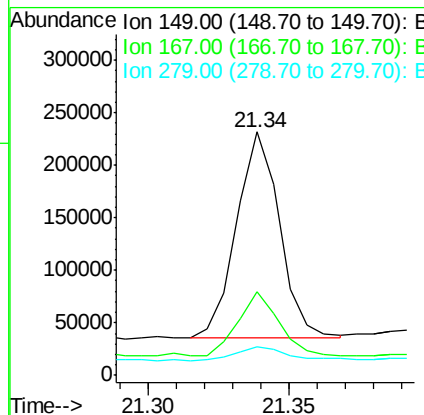
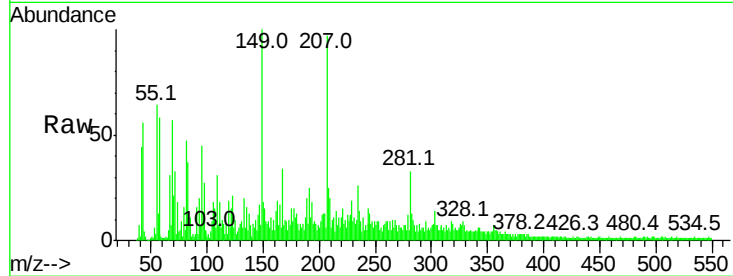
ClientSampleId :

B-25(0.5-1.5)-100517MSD

Tot Ion:	149	Resp:	208770
Ion Ratio	Lower	Upper	
149	100		
167	34.3	22.8	34.2#
279	11.6	4.9	7.3#

Manual Integrations
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#82

Chrysene

Concen: 50.143 ng/ul m

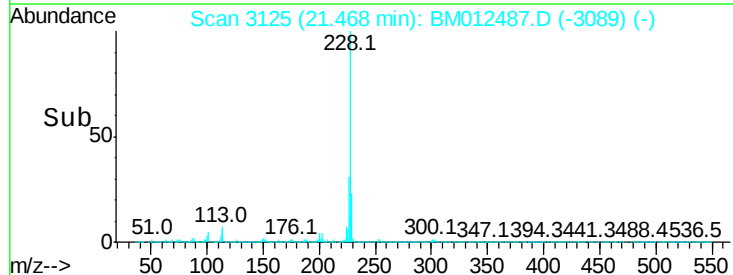
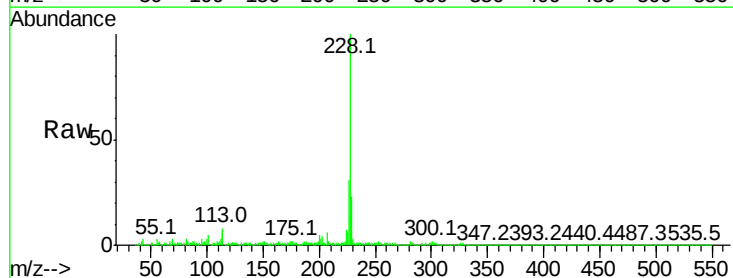
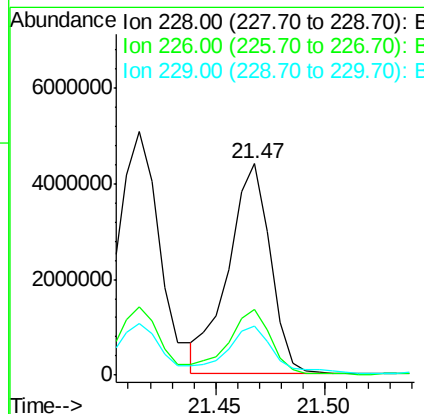
RT: 21.47 min Scan# 3125

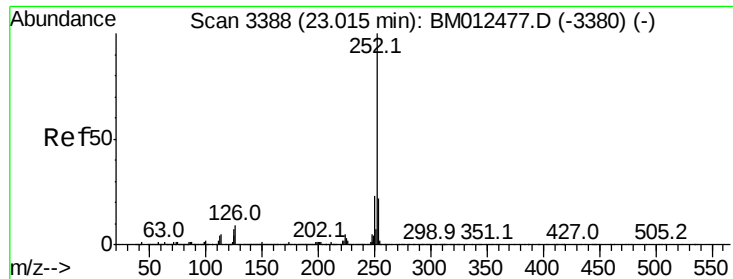
Delta R.T. 0.01 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Tgt Ion:	228	Resp:	5914480
Ion Ratio	Lower	Upper	
228	100		
226	30.9	23.4	35.2
229	23.4	15.5	23.3#





#85

Benzo(b)fluoranthene

Concen: 70.499 ng/ul

RT: 23.06 min Scan# 3395

Delta R.T. 0.02 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Instrument :

BNA_M

ClientSampleId :

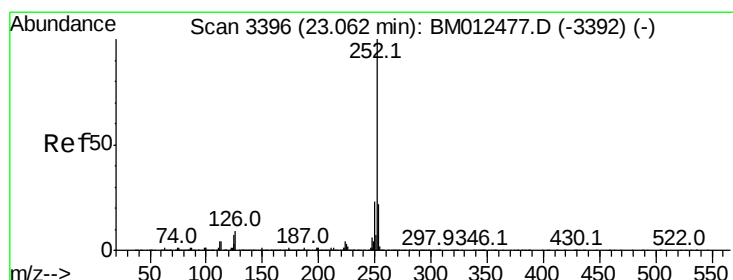
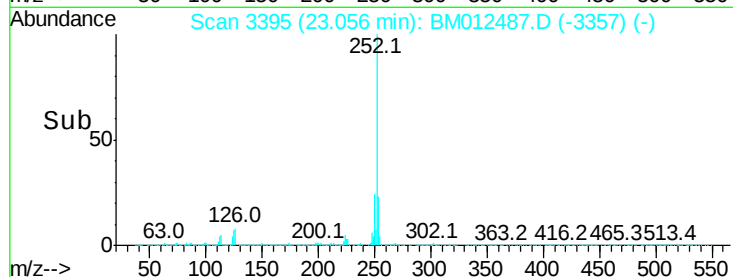
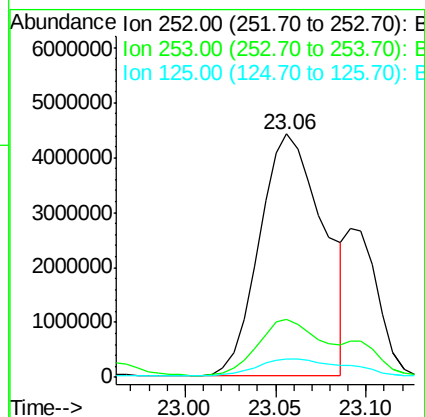
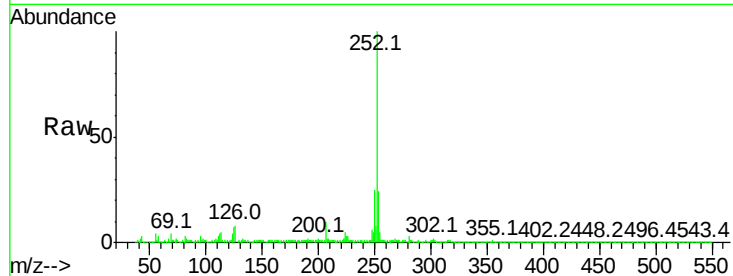
B-25(0.5-1.5)-100517MSD

Tot Ion:252 Resp:10879224

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	7.4	3.6	5.4#

Manual Integrations
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#86

Benzo(k)fluoranthene

Concen: 22.154 ng/ul m

RT: 23.09 min Scan# 3401

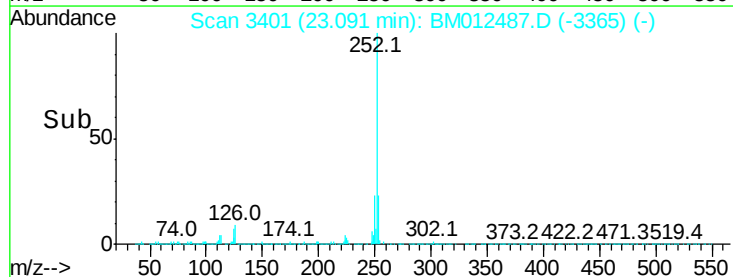
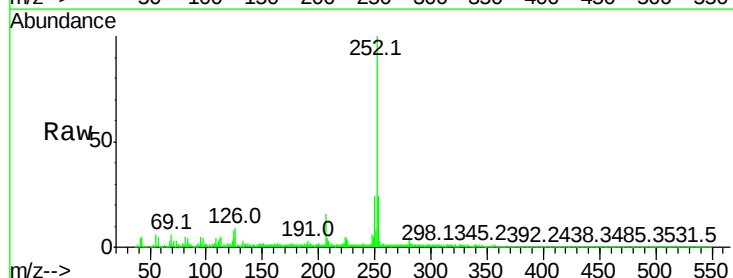
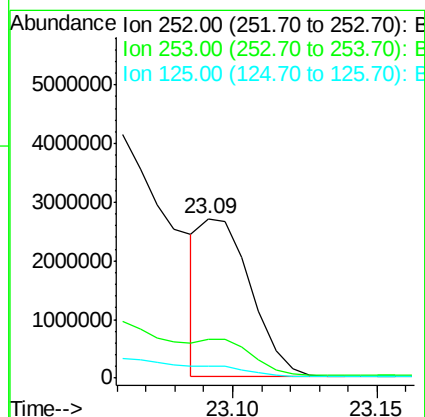
Delta R.T. 0.01 min

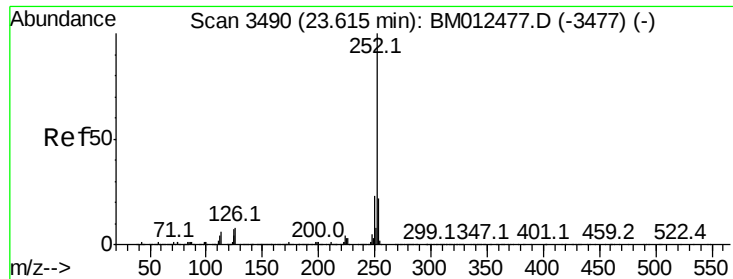
Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Tgt Ion:252 Resp: 3217678

Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.1	25.7
125	7.7	3.4	5.2#





#88

Benzo(a)pyrene

Concen: 55.573 ng/ul

RT: 23.65 min Scan# 3496

Delta R.T. 0.02 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Instrument :

BNA_M

ClientSampleId :

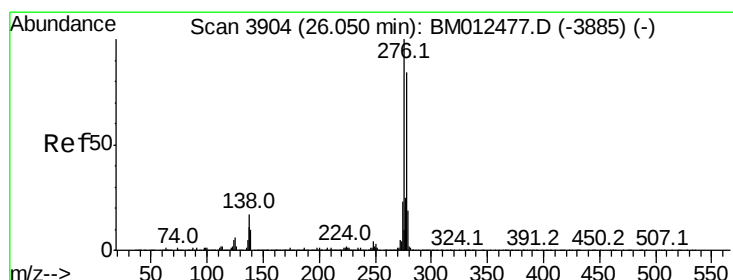
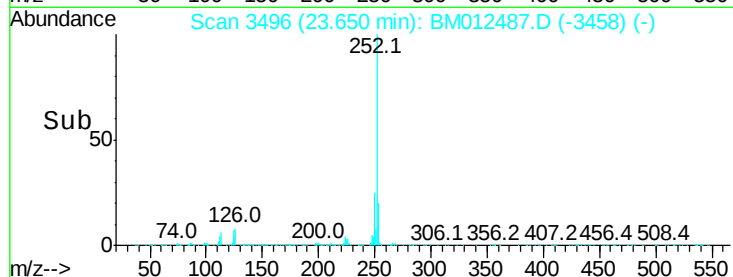
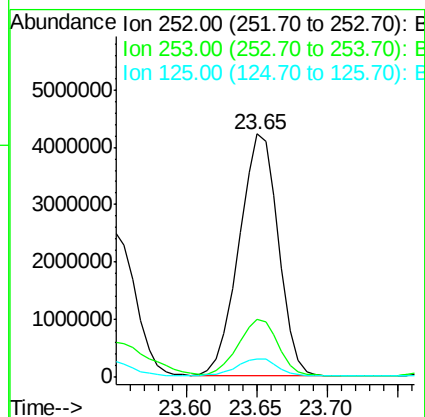
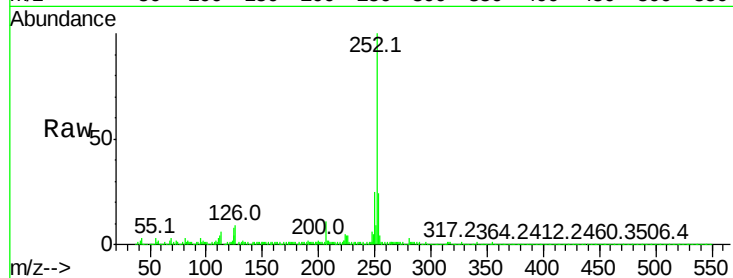
B-25(0.5-1.5)-100517MSD

Tot Ion:252 Resp: 8176647

Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.2
125	7.6	4.0	6.0#

Manual Integrations
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#89

Indeno(1,2,3-cd)pyrene

Concen: 32.650 ng/ul

RT: 26.11 min Scan# 3915

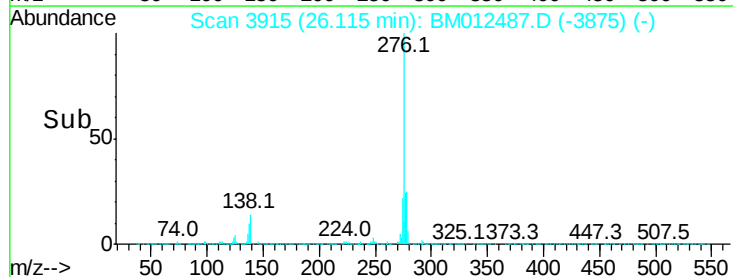
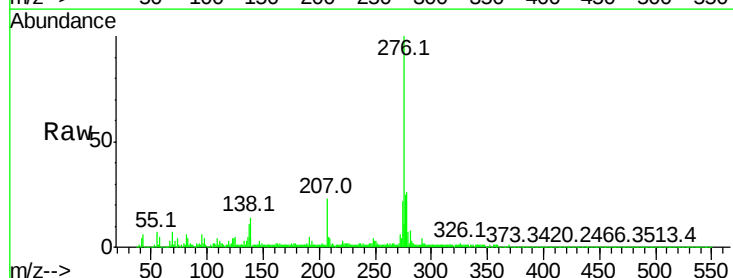
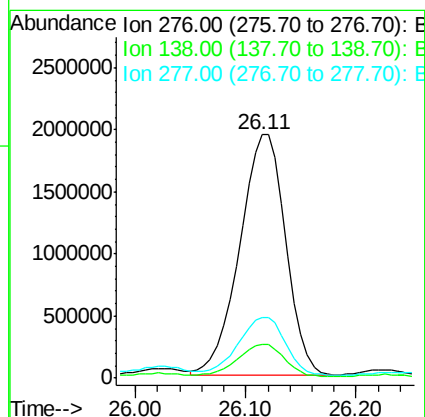
Delta R.T. 0.04 min

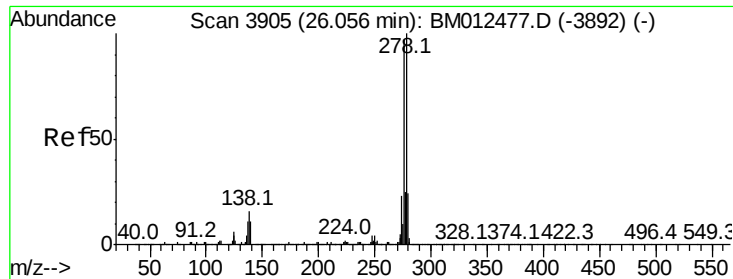
Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Tgt Ion:276 Resp: 5653780

Ion	Ratio	Lower	Upper
276	100		
138	14.1	9.3	13.9#
277	25.1	19.9	29.9





#90

Dibenzo(a,h)anthracene

Concen: 10.582 ng/ul

RT: 26.11 min Scan# 3915

Delta R.T. 0.02 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

Instrument :

BNA_M

ClientSampleId :

B-25(0.5-1.5)-100517MSD

Tot Ion:278 Resp: 1553545

Ion Ratio Lower Upper

278 100

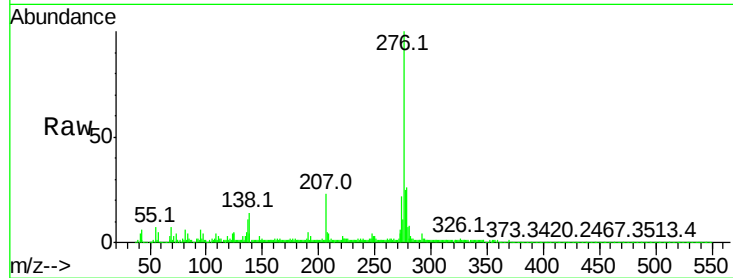
139 15.9 5.8 8.8#

279 28.3 18.6 27.8#

Manual Integrations
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Sohil

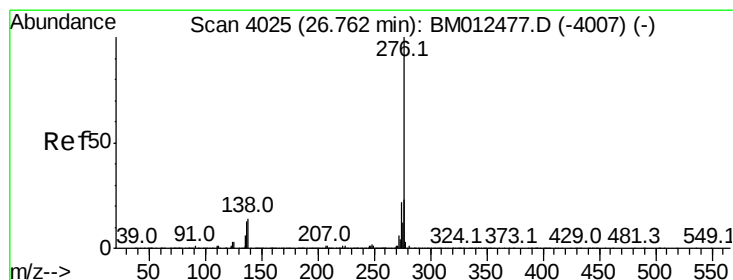
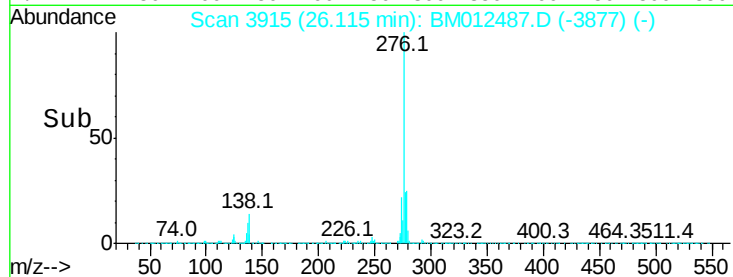
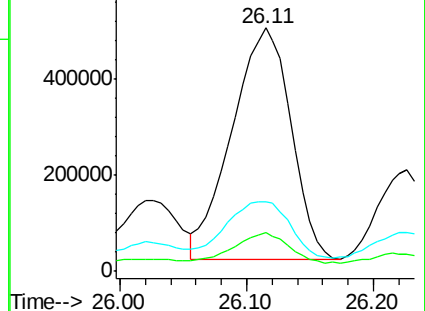
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Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 35.009 ng/ul

RT: 26.84 min Scan# 4039

Delta R.T. 0.05 min

Lab File: BM012487.D

Acq: 27 Oct 2017 15:31

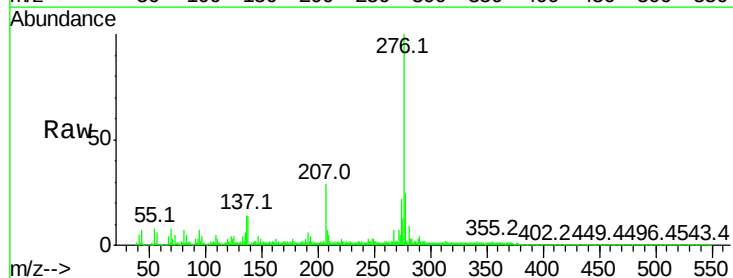
Tgt Ion:276 Resp: 4913237

Ion Ratio Lower Upper

276 100

138 14.1 8.5 12.7#

277 25.0 18.6 28.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

