

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE110719\
 Data File : BE100709.D
 Acq On : 7 Nov 2019 19:49
 Operator : JU
 Sample : K5725-03DL 25X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SO-3DL

Manual Integrations
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Sohil
 11/8/2019 3:32:31 PM

Quant Time: Nov 08 11:42:49 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 23 16:49:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	2108	0.40	ng	0.01
7) Naphthalene-d8	10.64	136	10285	0.40	ng	0.01
13) Acenaphthene-d10	14.48	164	9657	0.40	ng	0.01
19) Phenanthrene-d10	17.20	188	15143	0.40	ng	0.00
27) Chrysene-d12	21.37	240	16465	0.40	ng	0.01
34) Perylene-d12	23.85	264	19119	0.40	ng	0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.46	112	115	0.02	ng	0.01
5) Phenol-d6	7.03	99	256	0.03	ng	0.02
8) Nitrobenzene-d5	9.00	82	1085m	0.17	ng	0.01
11) 2-Methylnaphthalene-d10	12.24	152	1286	0.08	ng	0.01
14) 2,4,6-Tribromophenol	15.98	330	20	0.01	ng	0.04
15) 2-Fluorobiphenyl	13.16	172	282	0.01	ng	0.06
25) Fluoranthene-d10	19.23	212	4827	0.02	ng	0.01
29) Terphenyl-d14	19.82	244	1038	0.03	ng	0.00

Target Compounds						Qvalue
9) Naphthalene	10.69	128	40087	0.371	ng	# 93
12) 2-Methylnaphthalene	12.31	142	4990	0.271	ng	# 49
16) Acenaphthylene	14.21	152	12162	0.293	ng	# 20
17) Acenaphthene	14.54	154	8072	0.301	ng	# 58
18) Fluorene	15.51	166	27866	0.781	ng	# 42
23) Phenanthrene	17.26	178	100828	2.421	ng	# 75
24) Anthracene	17.34	178	24553	0.635	ng	# 78
26) Fluoranthene	19.26	202	160376	2.950	ng	# 99
28) Pyrene	19.62	202	200764	4.364	ng	# 90
30) Benzo(a)anthracene	21.35	228	111375	2.074	ng	# 93
31) Chrysene	21.40	228	86450m	1.611	ng	# 96
33) Indeno(1,2,3-cd)pyrene	26.48	276	84711	1.284	ng	# 95
35) Benzo(b)fluoranthene	23.10	252	138298	2.481	ng	# 95
36) Benzo(k)fluoranthene	23.14	252	53419m	0.932	ng	# 95
37) Benzo(a)pyrene	23.74	252	111120	2.141	ng	# 74
38) Dibenzo(a,h)anthracene	26.49	278	23083	0.430	ng	# 94
39) Benzo(a,h,i)perylene	27.29	276	81911	1.518	ng	# 94

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

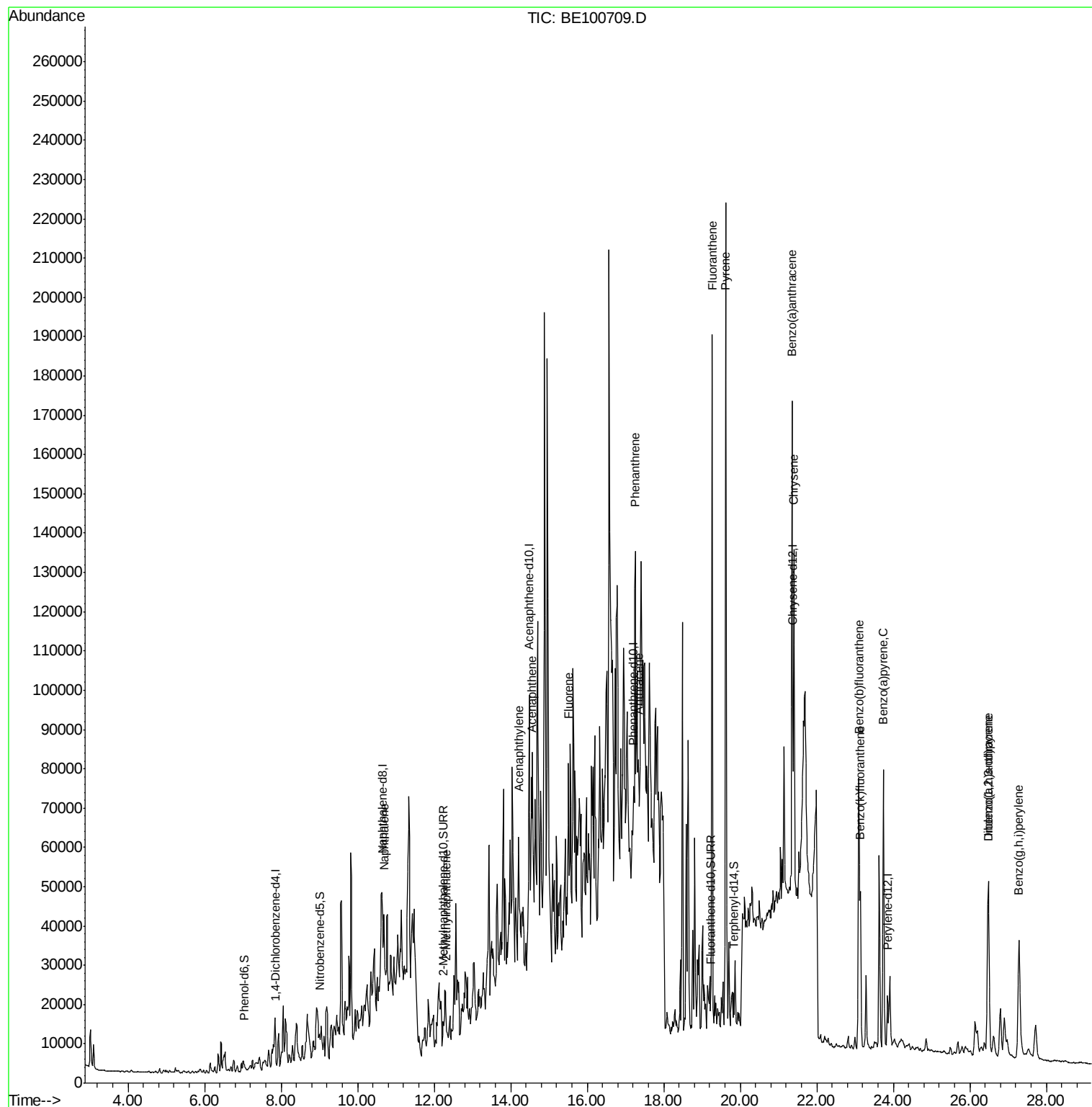
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE110719\
Data File : BE100709.D
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Misc :
ALS Vial : 11 Sample Multiplier: 1

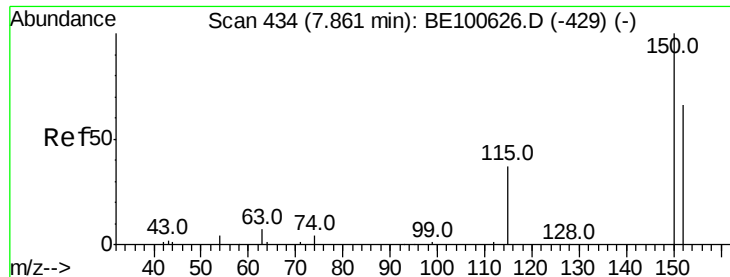
Instrument :
BNA_E
ClientSampleId :
SO-3DL

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.86 min Scan# 434

Delta R.T. 0.01 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Instrument :

BNA_E

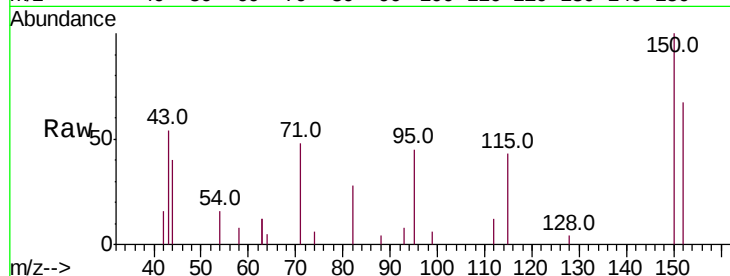
ClientSampled :

SO-3DL

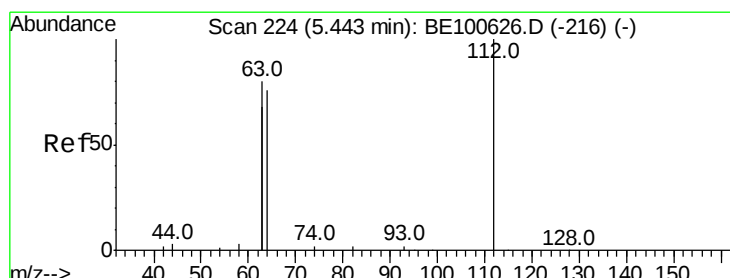
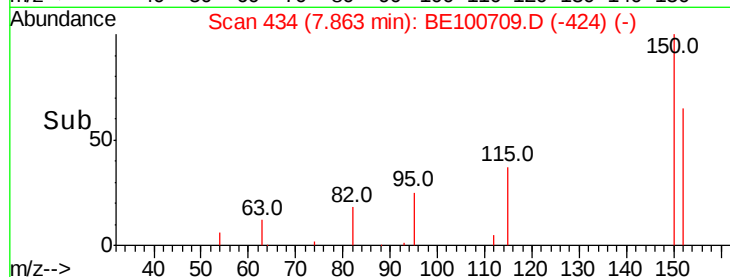
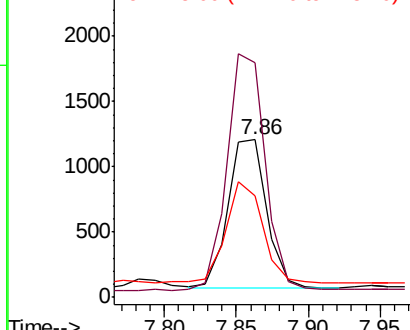
Tot Ion:	152	Resp:	2108
Ion	Ratio	Lower	Upper
152	100		
150	149.1	123.3	184.9
115	64.7	51.9	77.9

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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



#4

2-Fluorophenol

Concen: 0.018 ng

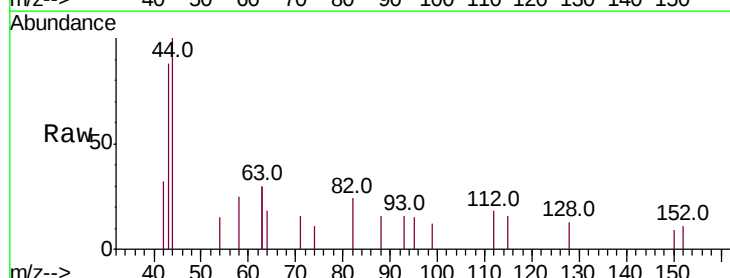
RT: 5.46 min Scan# 225

Delta R.T. 0.01 min

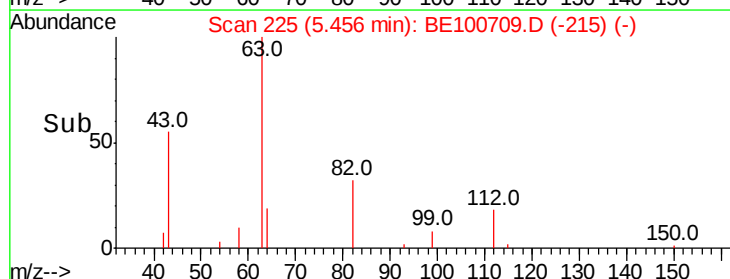
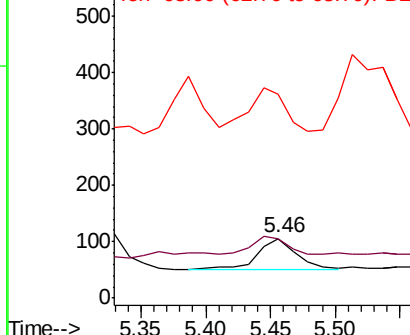
Lab File: BE100709.D

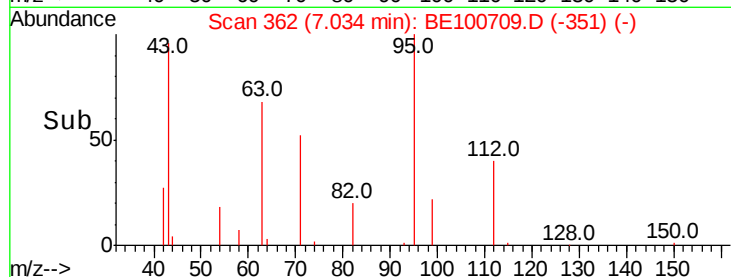
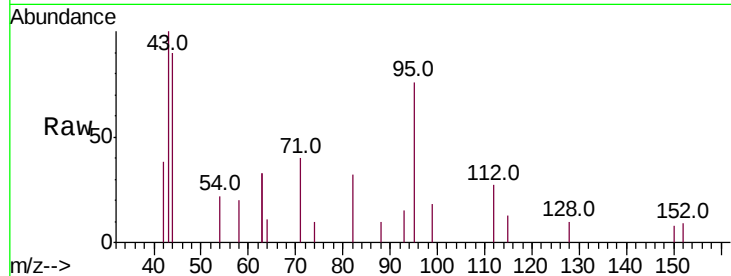
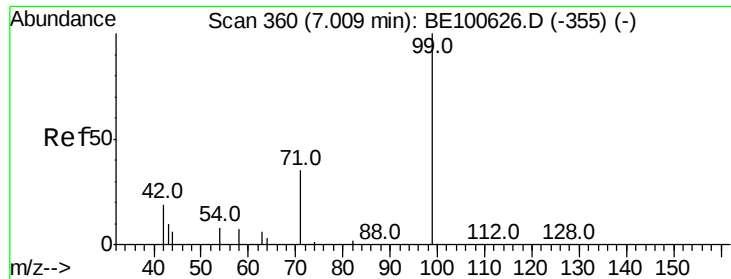
Acq: 7 Nov 2019 19:49

Tgt Ion:	112	Resp:	115
Ion	Ratio	Lower	Upper
112	100		
64	48.7	55.4	83.2#
63	128.7	114.2	171.4



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE1
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.028 ng

RT: 7.03 min Scan# 362

Delta R.T. 0.02 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Instrument :

BNA_E

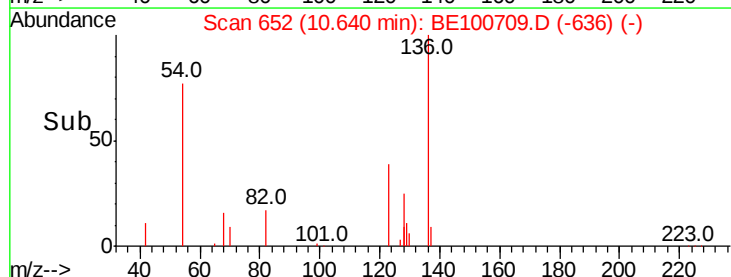
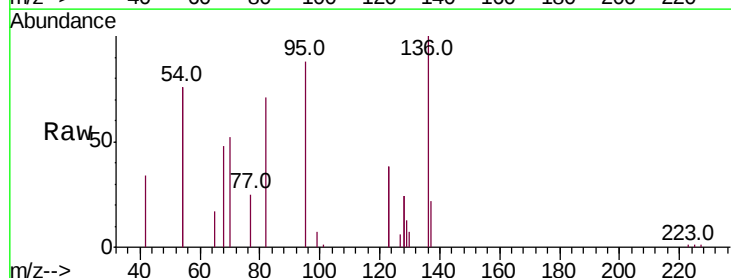
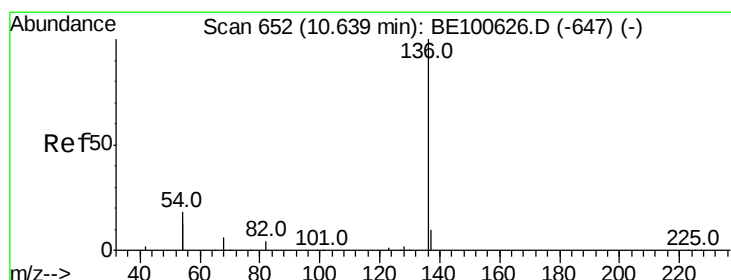
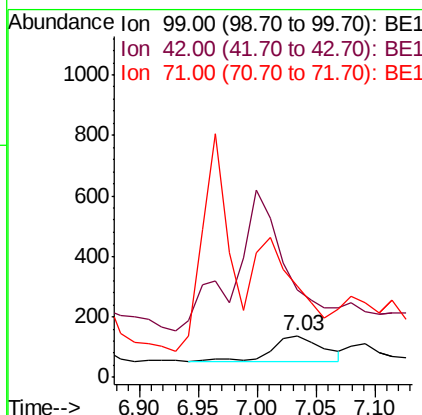
ClientSampled :

SO-3DL

Tot Ion	Ratio	Lower	Upper
99	100		
42	0.0	17.7	26.5#
71	0.0	27.4	41.0#

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#7

Naphthalene-d8

Concen: 0.400 ng

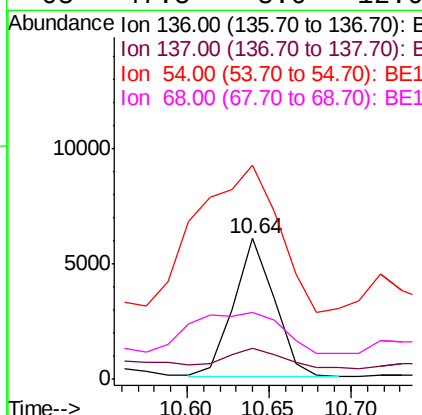
RT: 10.64 min Scan# 652

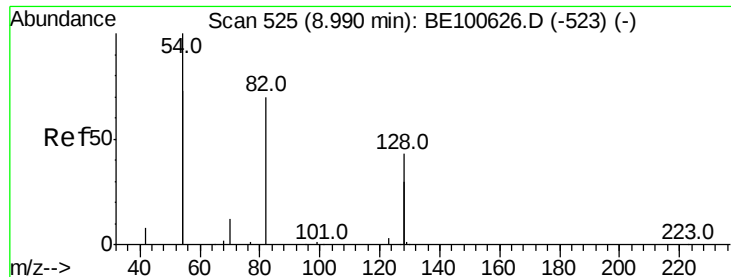
Delta R.T. 0.01 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Tgt Ion	Ratio	Lower	Upper
136	100		
137	22.2	9.2	13.8#
54	151.7	39.4	59.2#
68	47.5	8.0	12.0#





#8

Nitrobenzene-d5

Concen: 0.170 ng/ml

RT: 9.00 min Scan# 526

Delta R.T. 0.01 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Instrument :

BNA_E

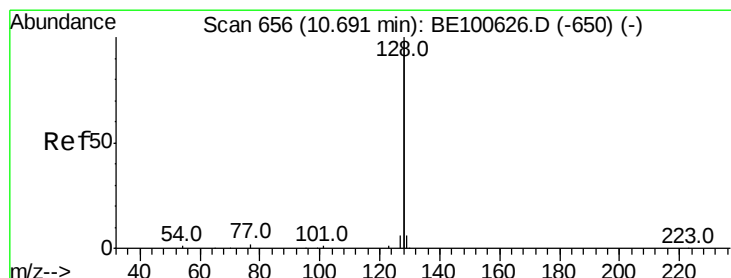
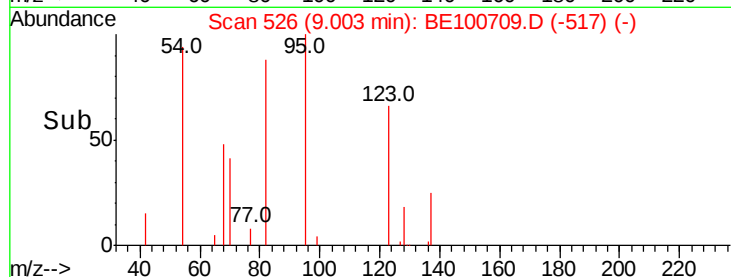
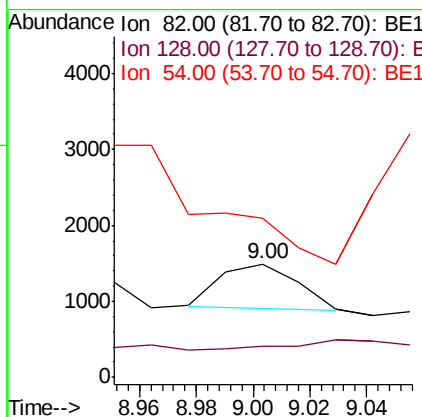
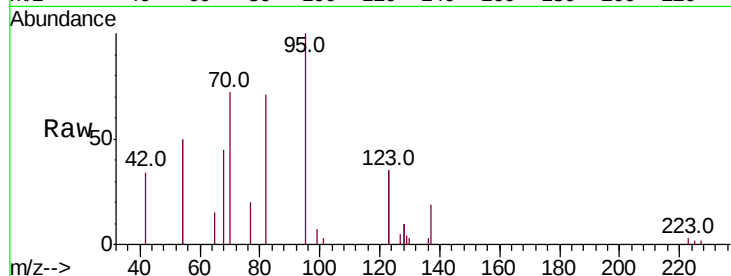
ClientSampled :

SO-3DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	13.5	107.8	161.8#
54	70.4	166.1	249.1#

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#9

Naphthalene

Concen: 0.371 ng/ml

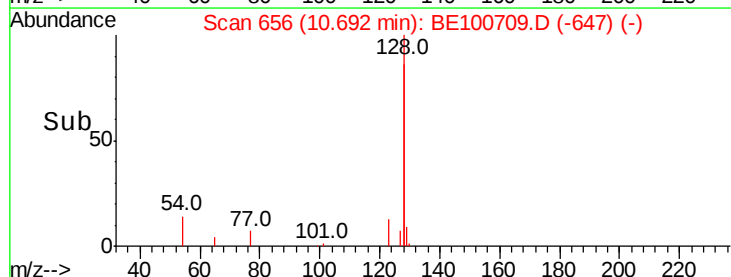
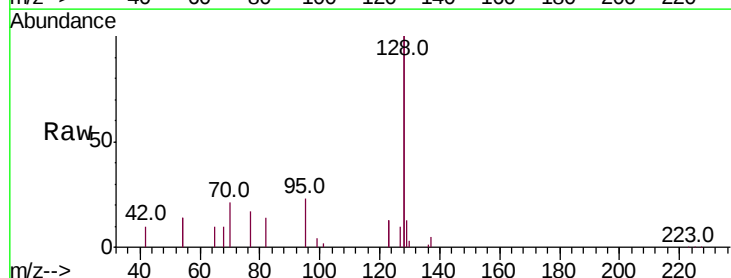
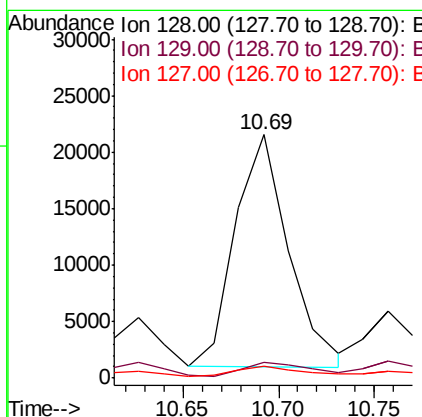
RT: 10.69 min Scan# 656

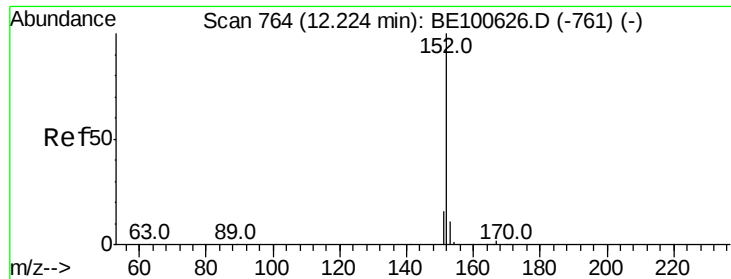
Delta R.T. 0.01 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Tgt Ion	Ratio	Lower	Upper
128	100		
129	6.3	2.3	3.5#
127	4.8	2.7	4.1#





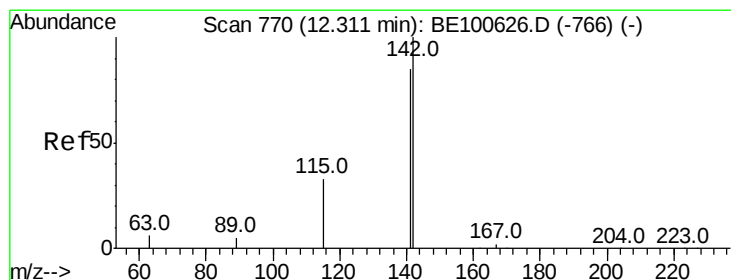
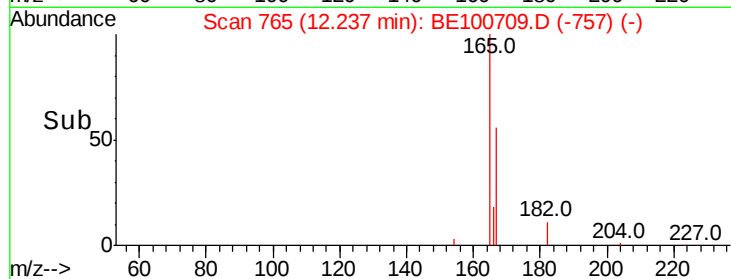
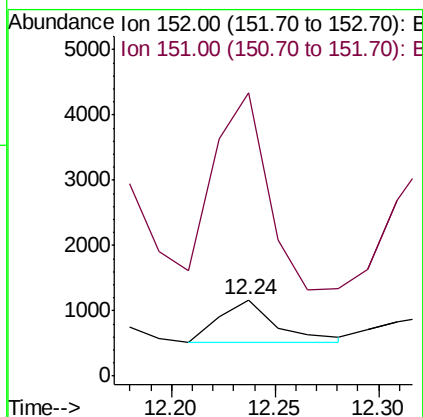
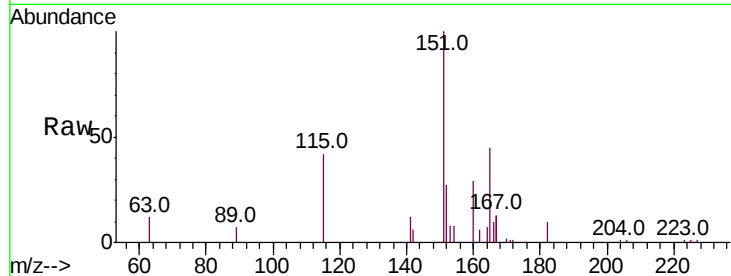
#11
2-Methylnaphthalene-d10
Concen: 0.079 ng
RT: 12.24 min Scan# 765
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Instrument :
BNA_E
ClientSampled :
SO-3DL

Tot Ion:152 Resp: 1286
Ion Ratio Lower Upper
152 100
151 409.4 14.7 22.1#

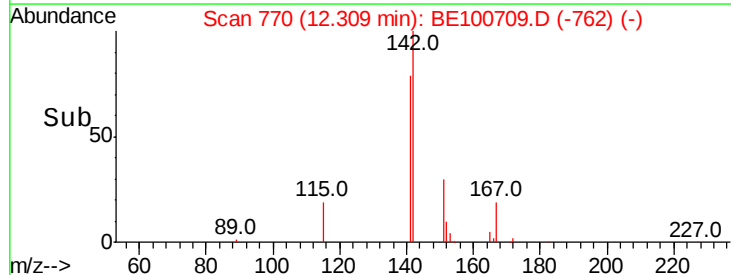
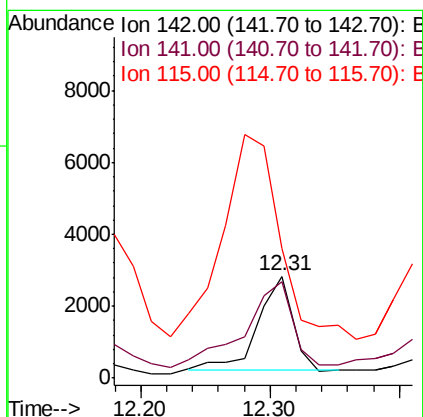
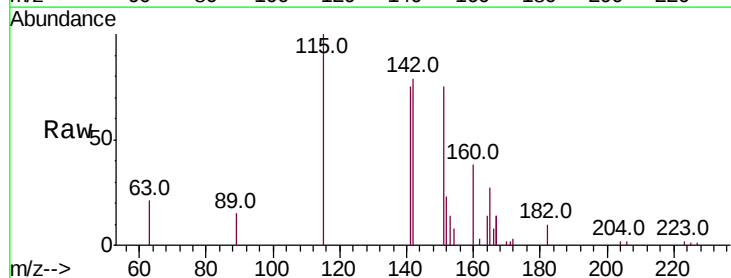
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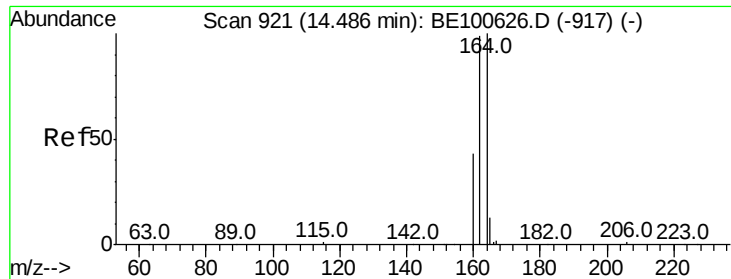
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#12
2-Methylnaphthalene
Concen: 0.271 ng
RT: 12.31 min Scan# 770
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Tgt Ion:142 Resp: 4990
Ion Ratio Lower Upper
142 100
141 94.9 70.1 105.1
115 127.3 28.3 42.5#





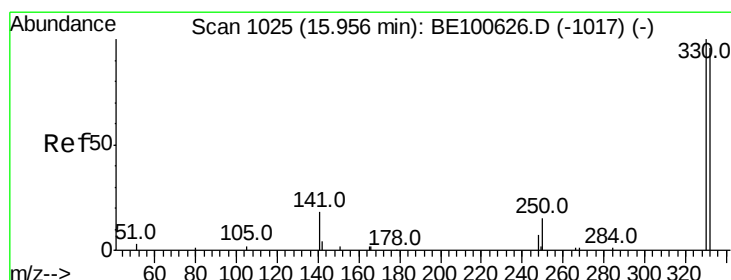
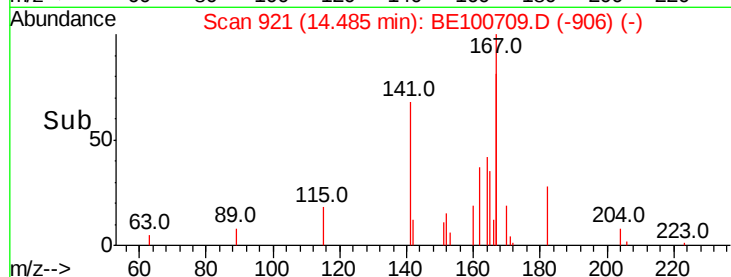
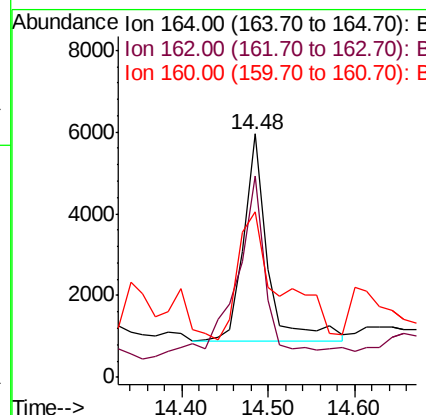
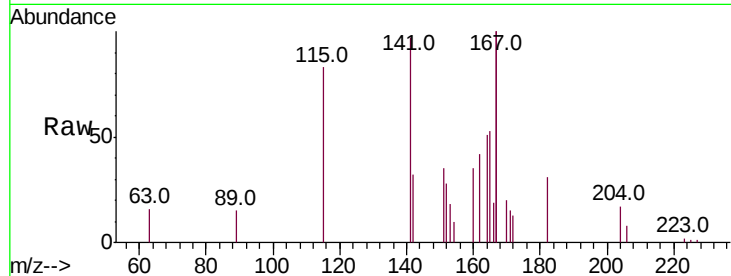
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.48 min Scan# 921
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Instrument :
BNA_E
ClientSampleId :
SO-3DL

Tot Ion:164 Resp: 9657
Ion Ratio Lower Upper
164 100
162 82.8 82.0 123.0
160 68.0 37.5 56.3#

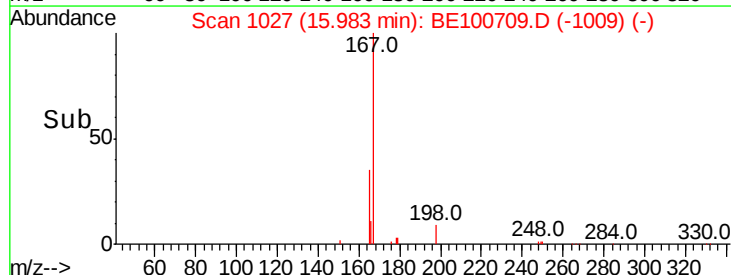
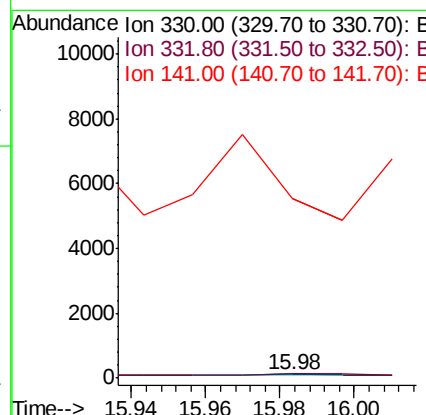
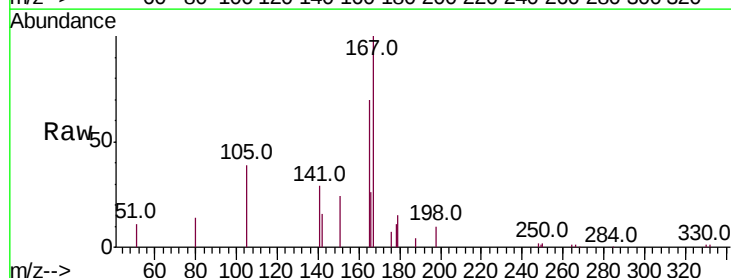
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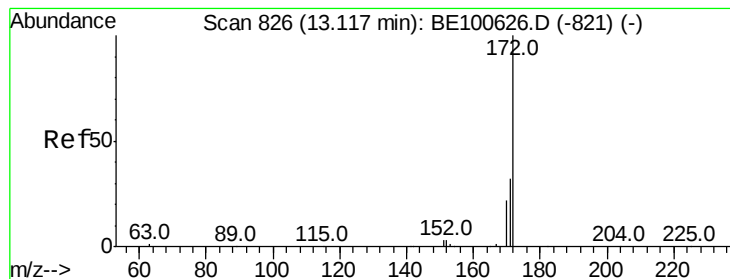
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#14
2,4,6-Tribromophenol
Concen: 0.008 ng
RT: 15.98 min Scan# 1027
Delta R.T. 0.04 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Tgt Ion:330 Resp: 20
Ion Ratio Lower Upper
330 100
332 480.0 77.9 116.9#
141 16510.0 33.0 49.6#





#15

2-Fluorobiphenyl

Concen: 0.008 ng

RT: 13.16 min Scan# 829

Delta R.T. 0.06 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Instrument :

BNA_E

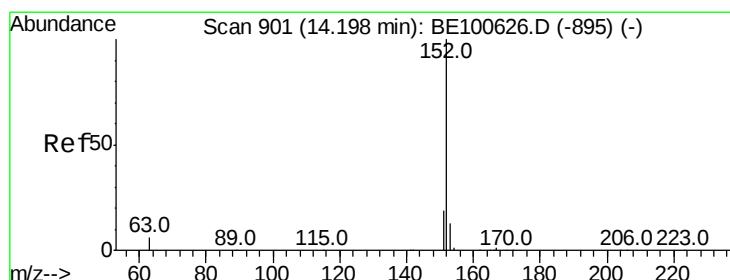
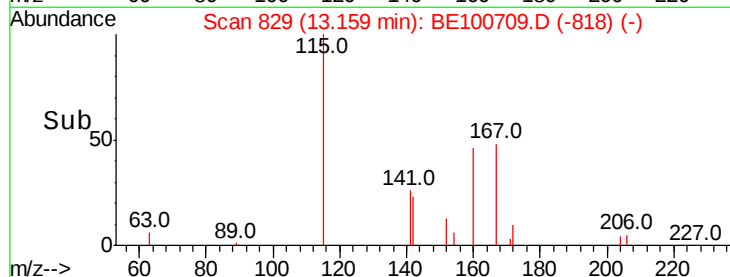
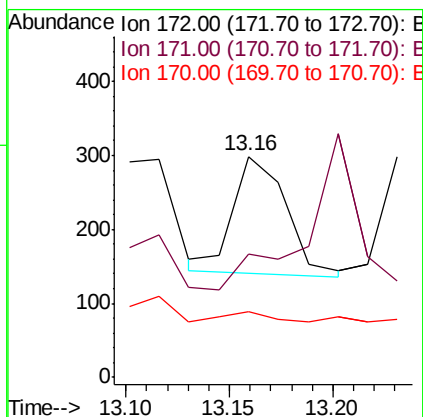
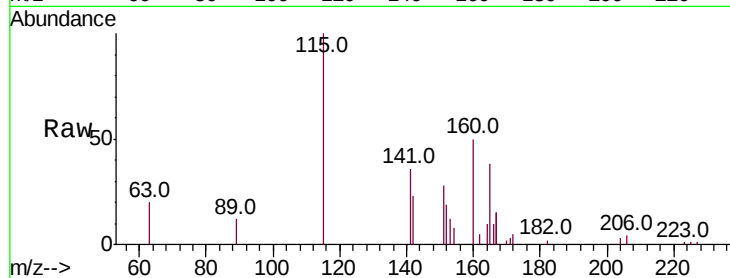
ClientSampled :

SO-3DL

Tot Ion:	172	Resp:	282
Ion Ratio	Lower	Upper	
172	100		
171	55.5	26.5	39.7#
170	29.8	19.0	28.4#

Manual Integrations
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#16

Acenaphthylene

Concen: 0.293 ng

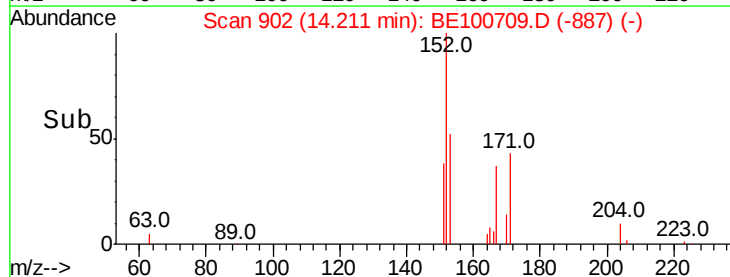
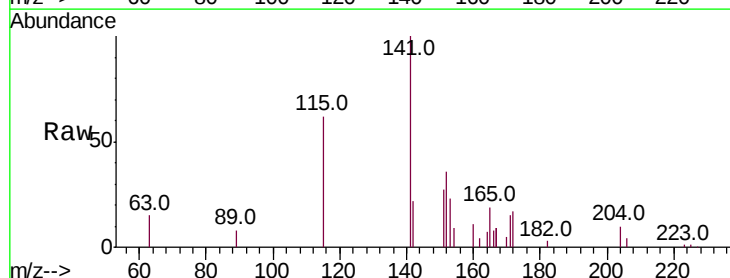
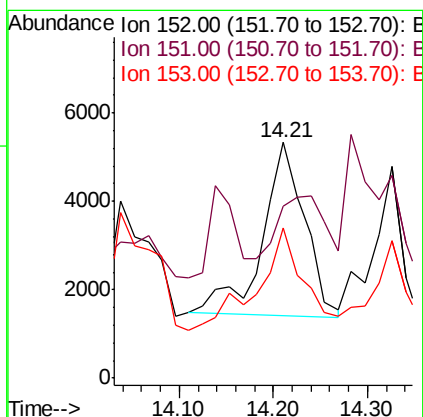
RT: 14.21 min Scan# 902

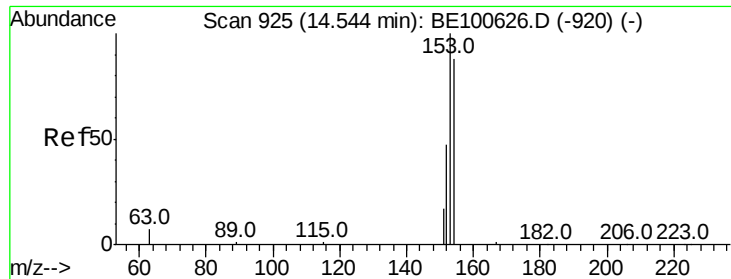
Delta R.T. 0.01 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Tgt Ion:	152	Resp:	12162
Ion Ratio	Lower	Upper	
152	100		
151	0.0	15.2	22.8#
153	66.6	10.3	15.5#





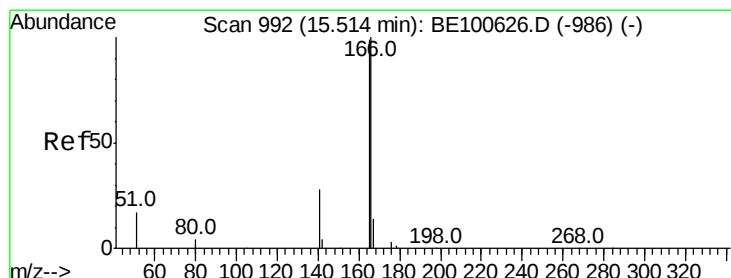
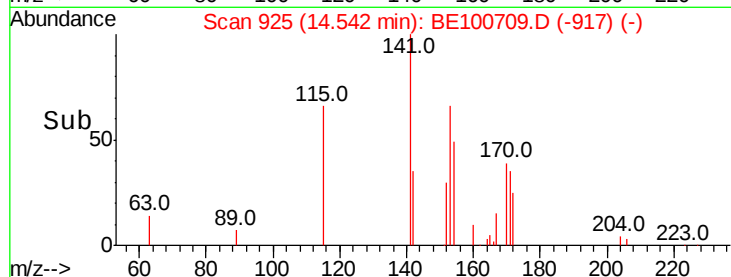
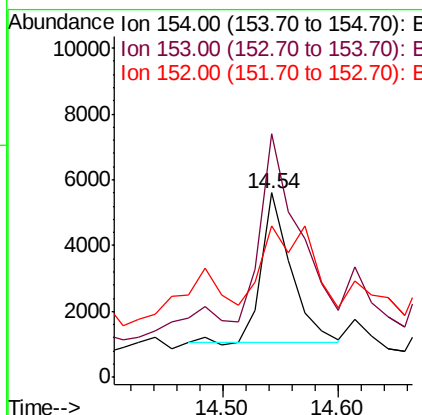
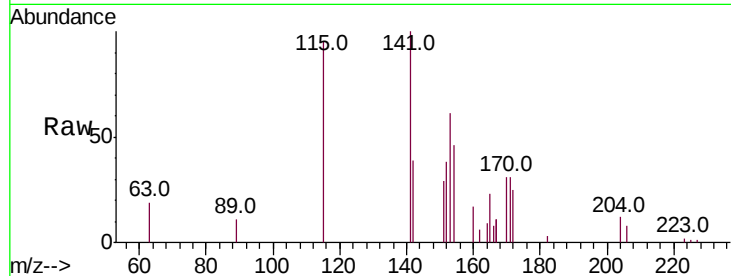
#17
Acenaphthene
Concen: 0.301 ng
RT: 14.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Instrument :
BNA_E
ClientSampled :
SO-3DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	154.6	89.4	134.2#
152	88.5	44.1	66.1#

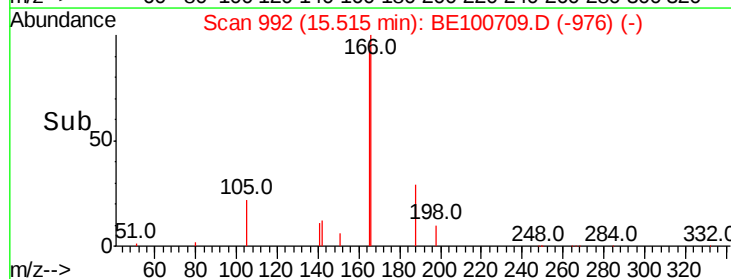
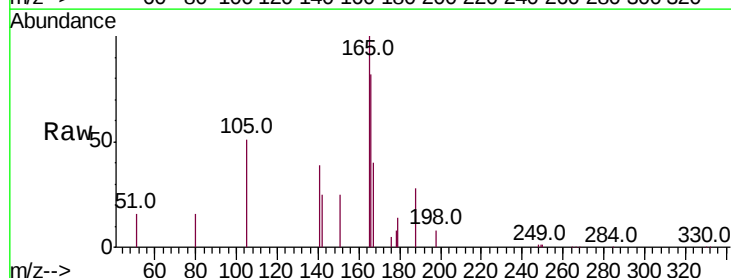
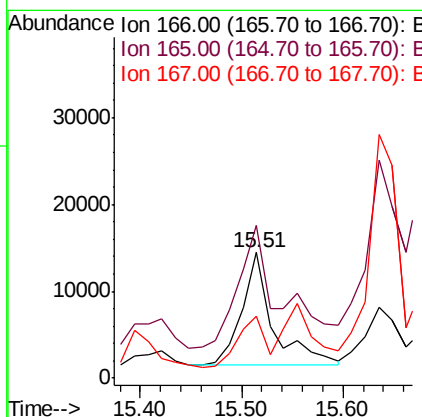
Manual Integrations
APPROVED

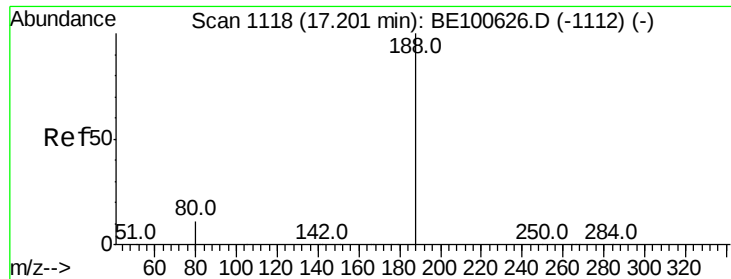
Sohil
11/8/2019 3:32:31 PM



#18
Fluorene
Concen: 0.781 ng
RT: 15.51 min Scan# 992
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Tgt Ion	Ratio	Lower	Upper
166	100		
165	154.4	78.6	117.8#
167	39.7	10.9	16.3#





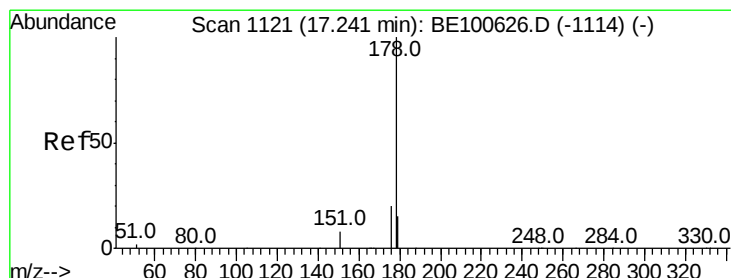
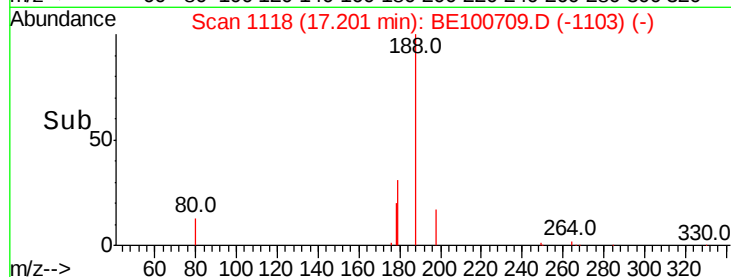
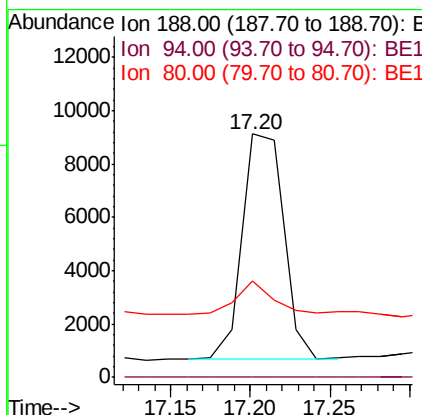
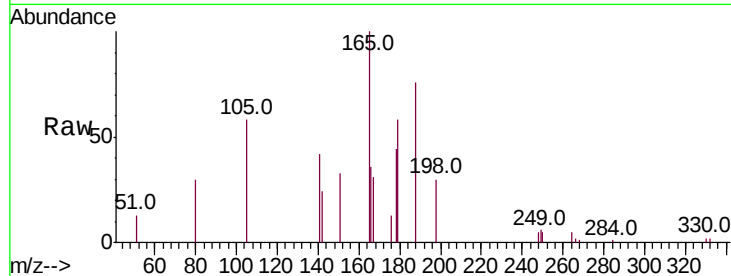
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.20 min Scan# 1118
Delta R.T. 0.00 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Instrument :
BNA_E
ClientSampleId :
SO-3DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	0.0	0.0	0.0
80	39.6	5.4	8.0#

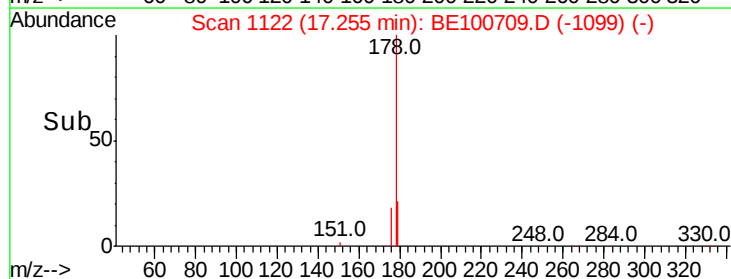
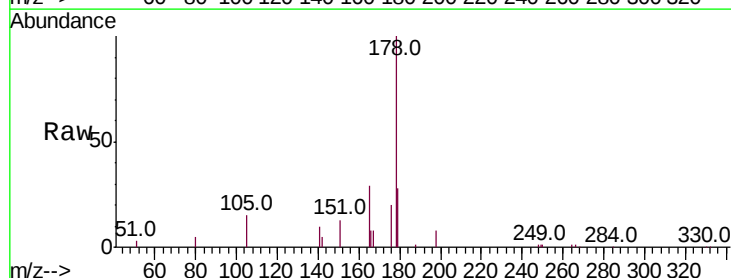
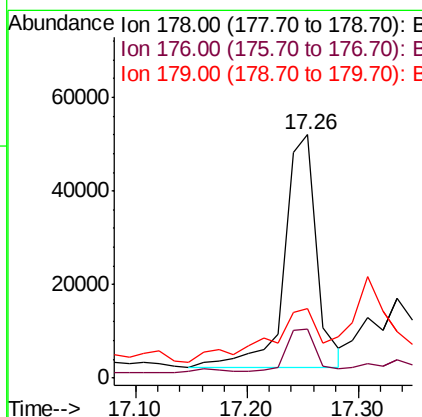
Manual Integrations
APPROVED

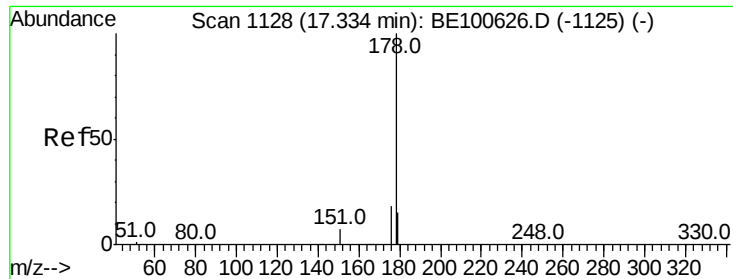
Sohil
11/8/2019 3:32:31 PM



#23
Phenanthrene
Concen: 2.421 ng
RT: 17.26 min Scan# 1122
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	16.4	15.2	22.8
179	35.5	12.1	18.1#





#24

Anthracene

Concen: 0.635 ng

RT: 17.34 min Scan# 1128

Delta R.T. 0.01 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Instrument :

BNA_E

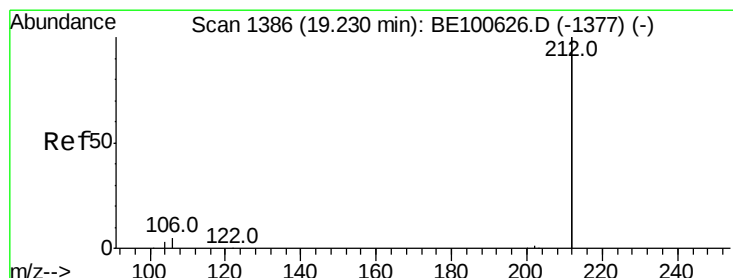
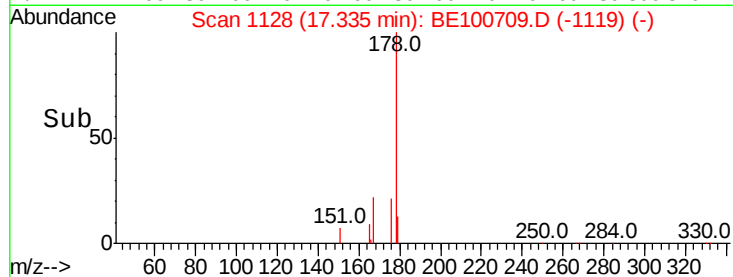
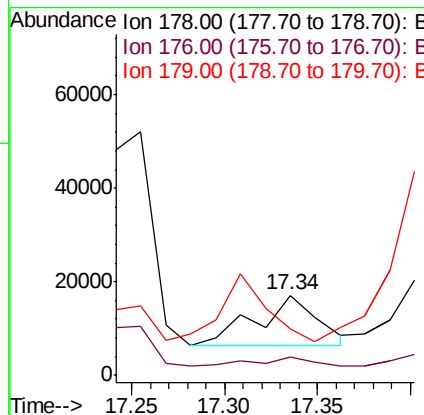
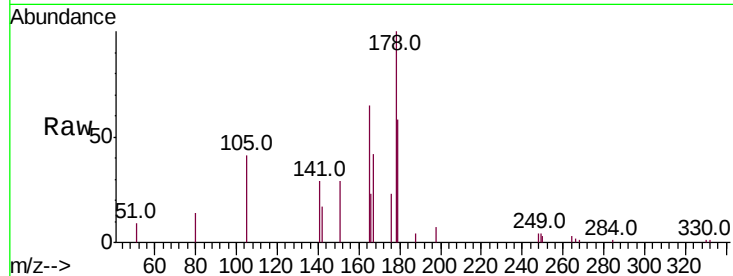
ClientSampled :

SO-3DL

Tot Ion:	178	Resp:	24553
Ion Ratio	Lower	Upper	
178	100		
176	14.7	15.0	22.4#
179	0.0	12.5	18.7#

Manual Integrations
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#25

Fluoranthene-d10

Concen: 0.025 ng

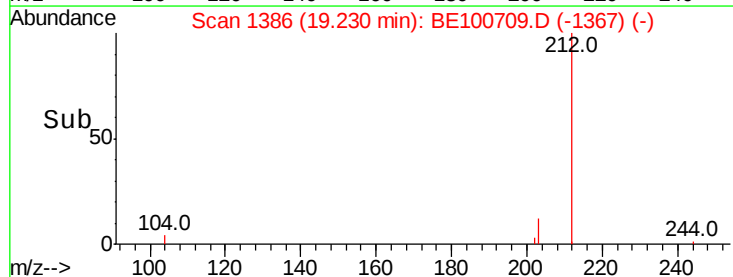
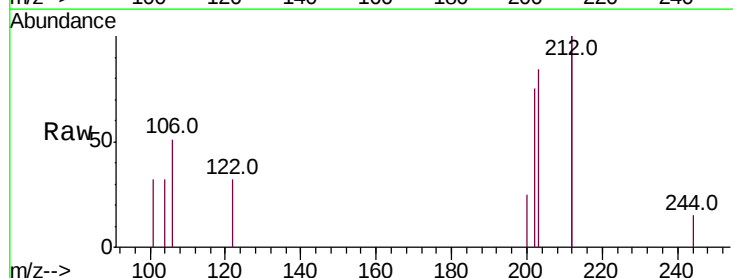
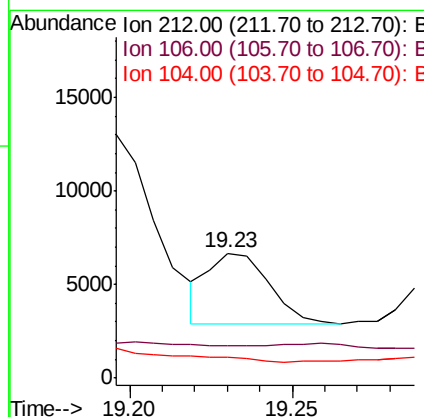
RT: 19.23 min Scan# 1386

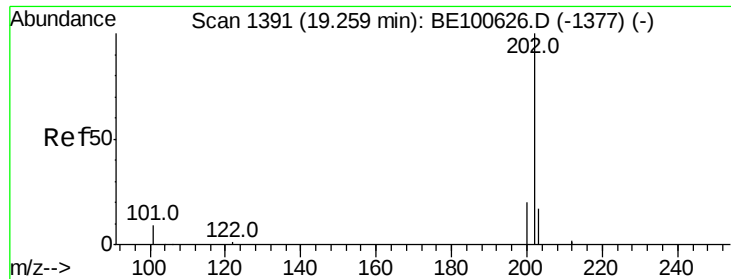
Delta R.T. 0.01 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Tgt Ion:	212	Resp:	4827
Ion Ratio	Lower	Upper	
212	100		
106	0.0	2.3	3.5#
104	0.0	1.3	1.9#





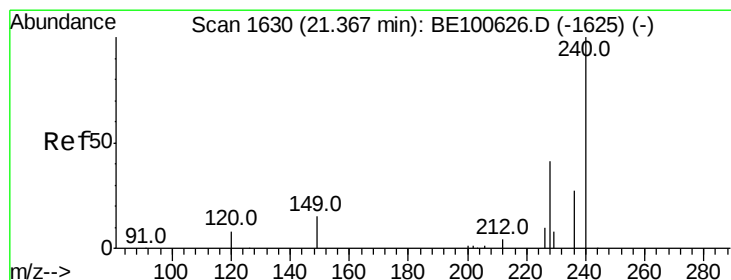
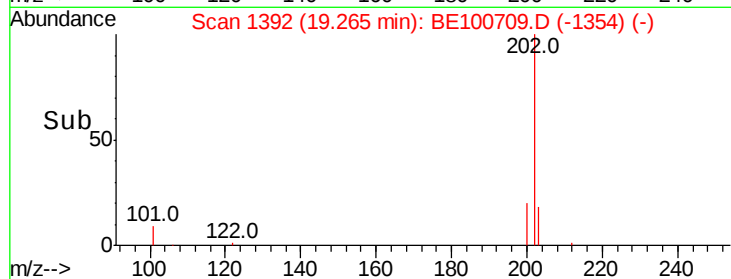
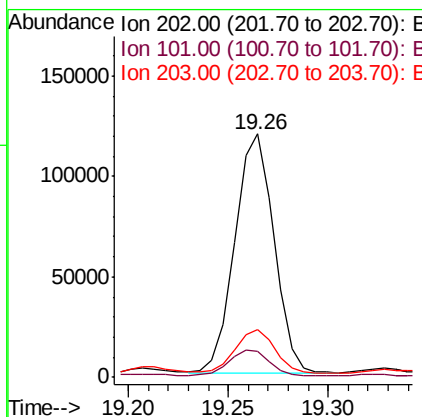
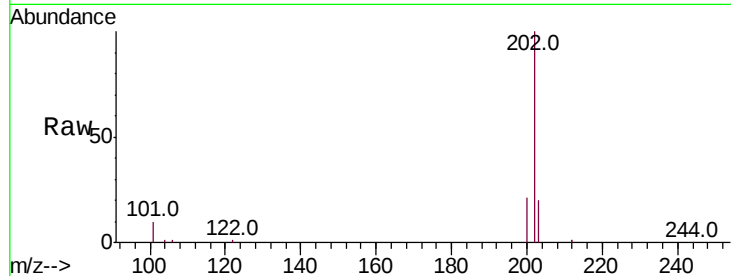
#26
Fluoranthene
Concen: 2.950 ng
RT: 19.26 min Scan# 1392
Delta R.T. 0.02 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Instrument :
BNA_E
ClientSampleId :
SO-3DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	160376		
101	10.8		8.5	12.7
203	18.0		13.8	20.8

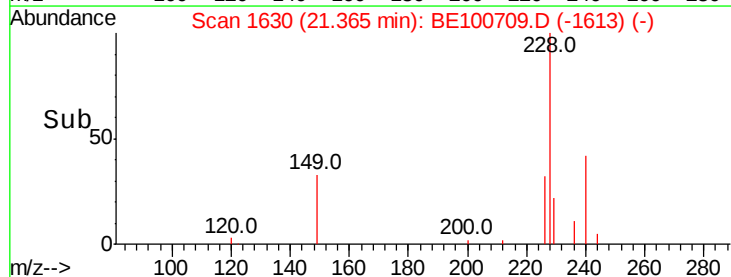
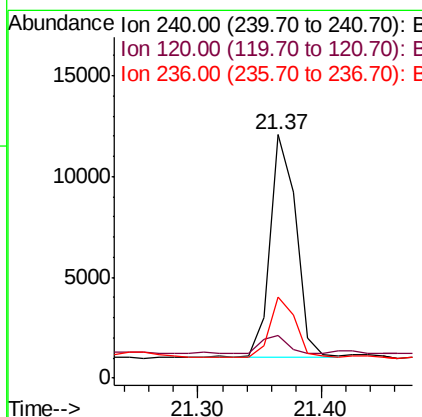
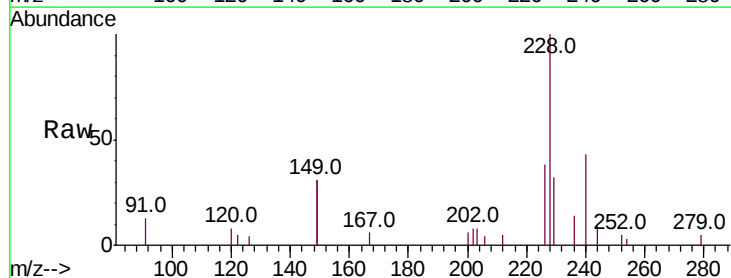
Manual Integrations
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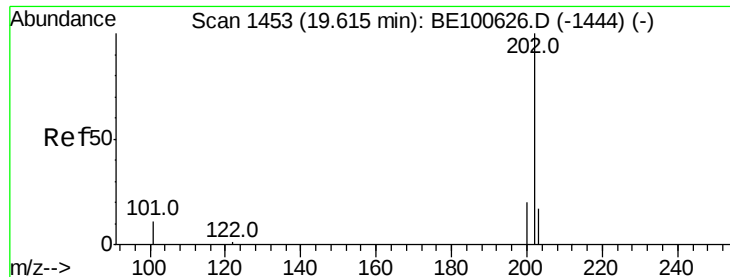
Sohil
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#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.37 min Scan# 1630
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	16465		
120	17.7		7.6	11.4#
236	33.4		22.1	33.1#





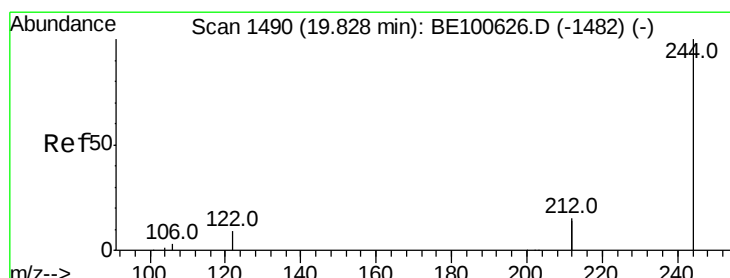
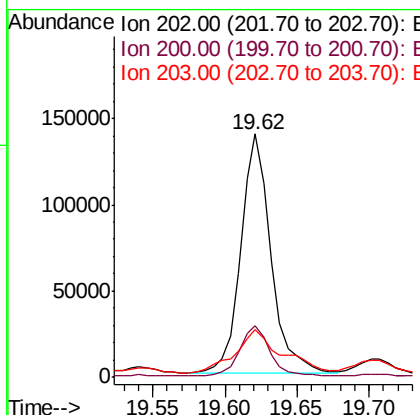
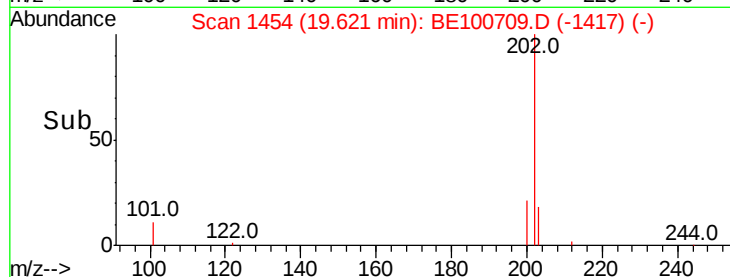
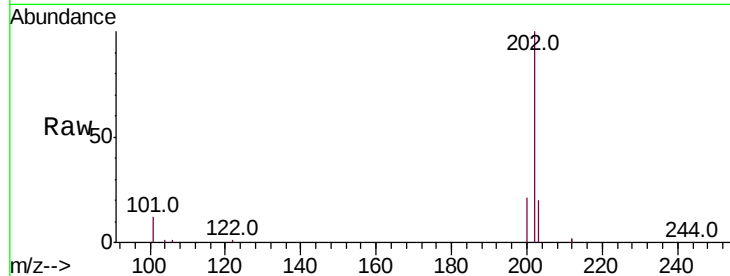
#28
Pvrene
Concen: 4.364 ng
RT: 19.62 min Scan# 1454
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Instrument :
BNA_E
ClientSampleId :
SO-3DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	27.1	14.0	21.0#

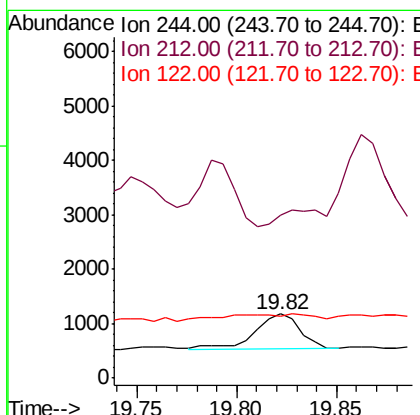
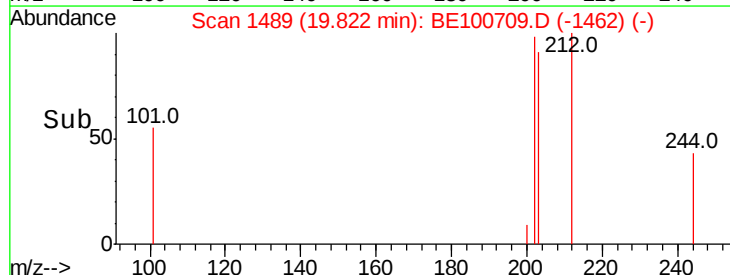
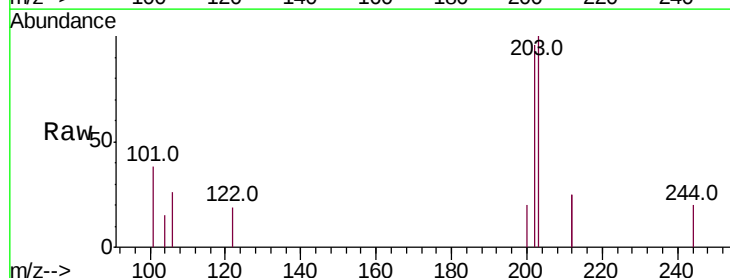
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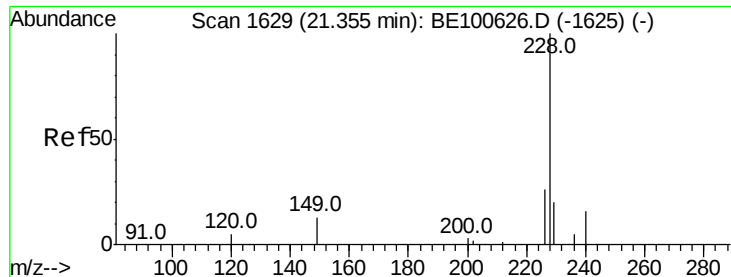
Sohil
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#29
Terphenyl-d14
Concen: 0.029 ng
RT: 19.82 min Scan# 1489
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Tgt Ion	Ratio	Lower	Upper
244	100		
212	254.3	23.7	35.5#
122	96.5	7.9	11.9#





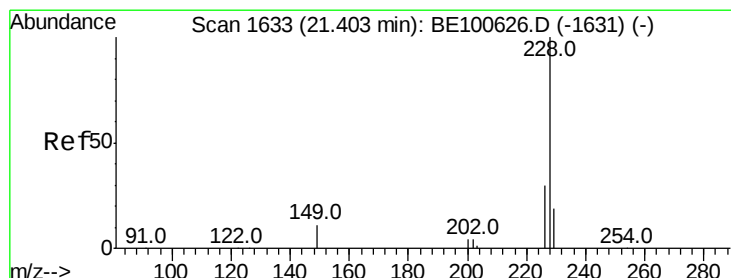
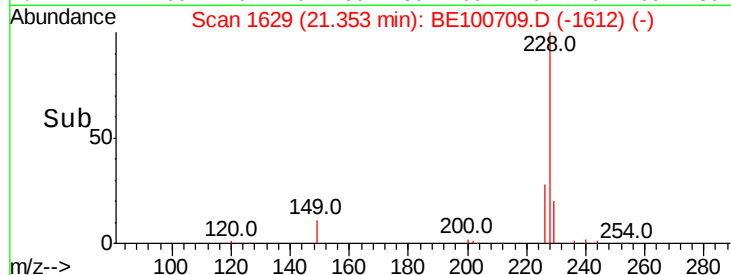
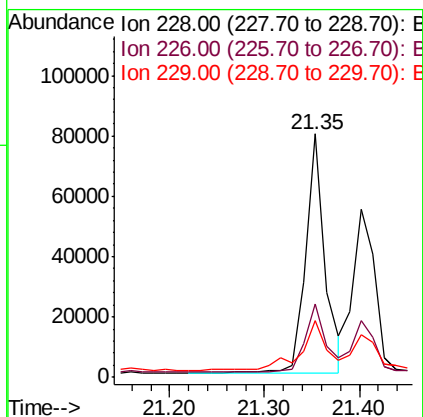
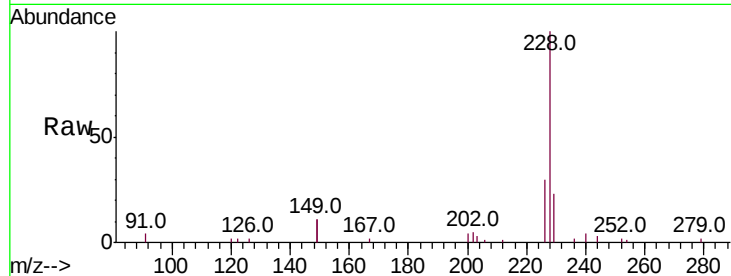
#30
Benzo(a)anthracene
Concen: 2.074 ng
RT: 21.35 min Scan# 1629
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Instrument :
BNA_E
ClientSampled :
SO-3DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	21.4	32.0
229	23.3	16.0	24.0

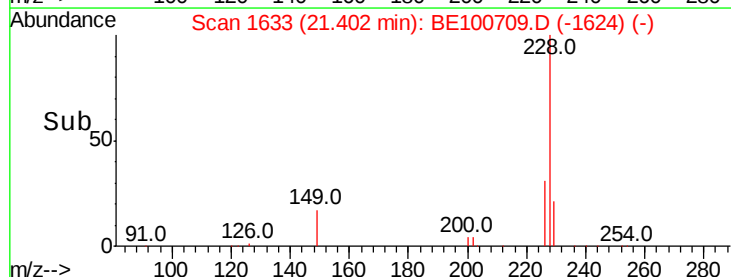
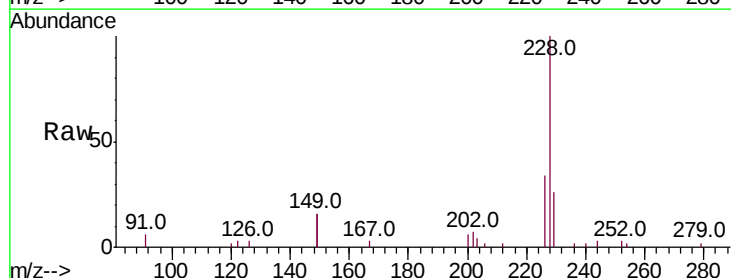
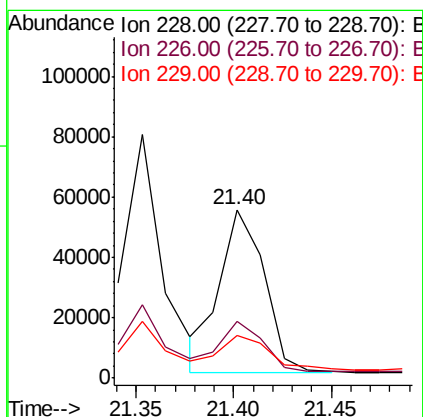
Manual Integrations
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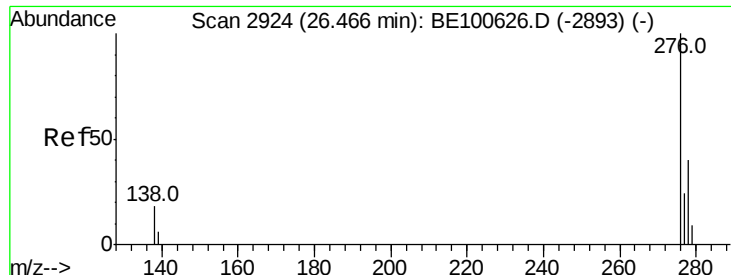
Sohil
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#31
Chrysene
Concen: 1.611 ng m
RT: 21.40 min Scan# 1633
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.5	24.6	37.0
229	25.6	15.8	23.8





#33

Indeno(1,2,3-cd)pyrene

Concen: 1.284 ng

RT: 26.48 min Scan# 2927

Delta R.T. 0.04 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Instrument :

BNA_E

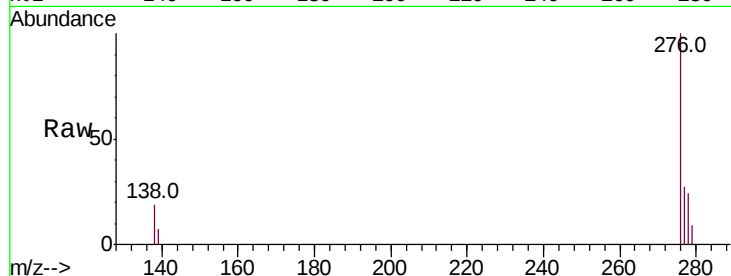
ClientSampled :

SO-3DL

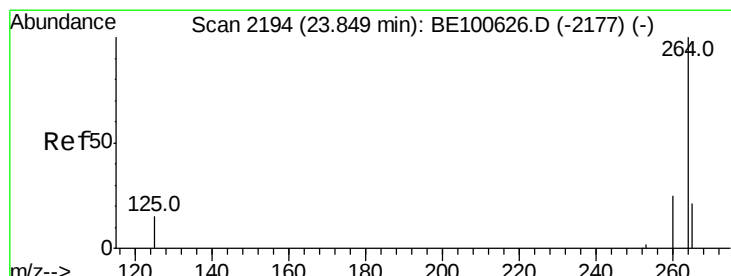
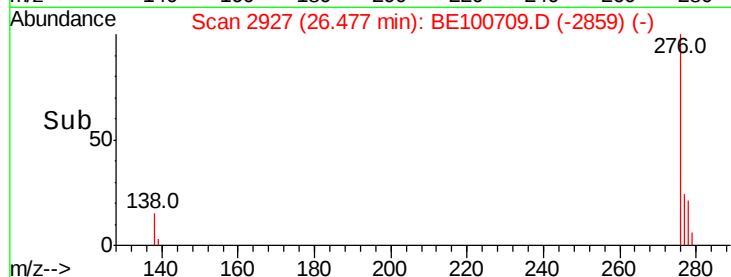
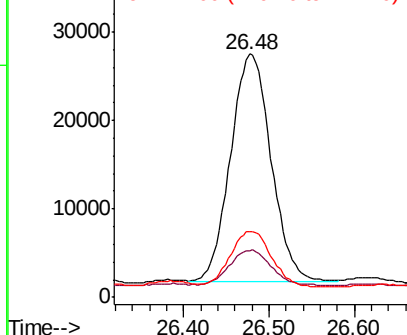
Tot Ion:	276	Resp:	84711
Ion Ratio	Lower	Upper	
276	100		
138	15.8	15.3	22.9
277	25.0	19.4	29.2

Manual Integrations
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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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.85 min Scan# 2195

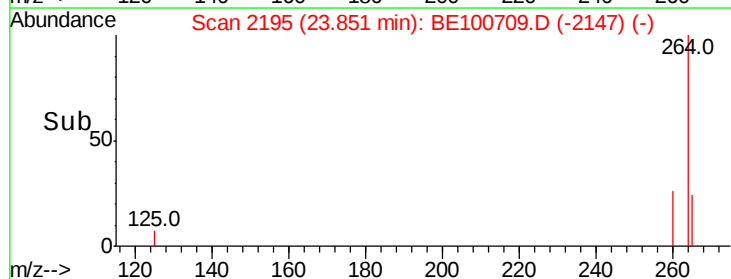
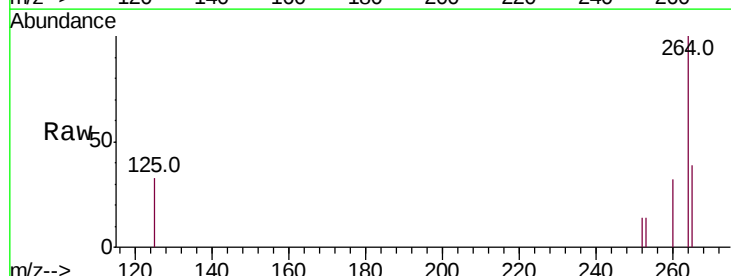
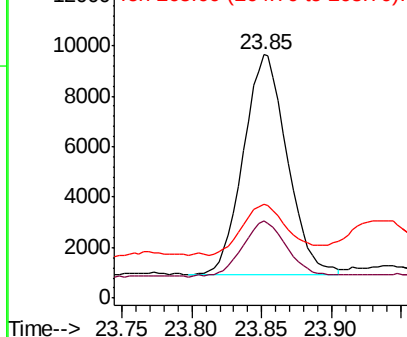
Delta R.T. 0.02 min

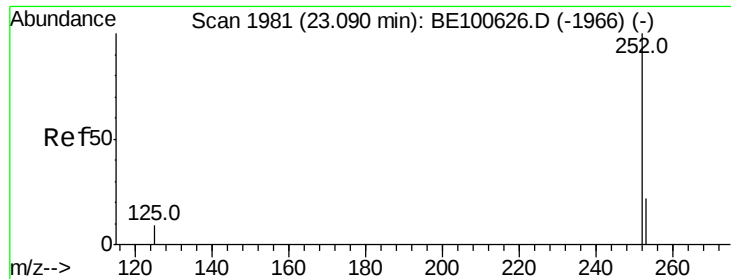
Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Tgt Ion:	264	Resp:	19119
Ion Ratio	Lower	Upper	
264	100		
260	31.7	19.4	29.2#
265	38.6	21.7	32.5#

Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





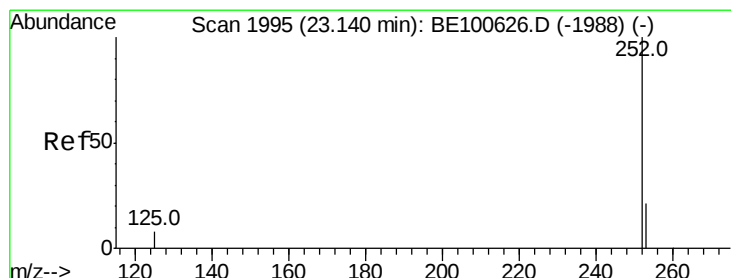
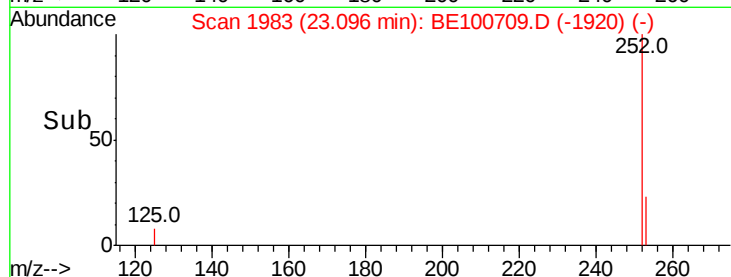
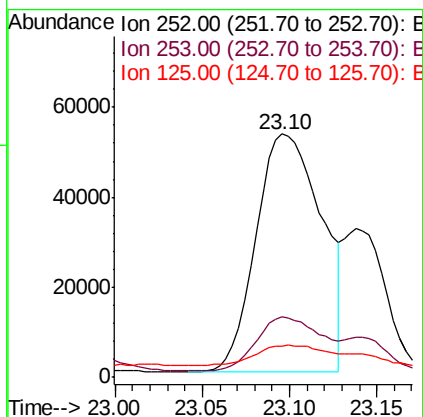
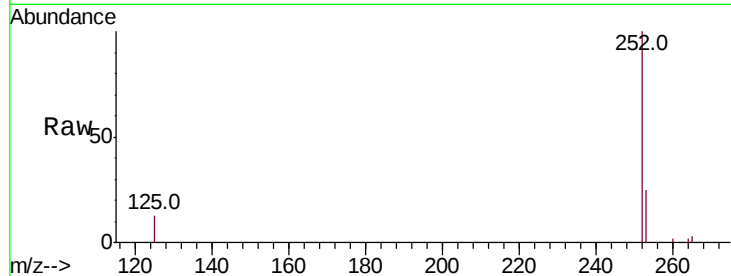
#35
Benzo(b)fluoranthene
Concen: 2.481 ng
RT: 23.10 min Scan# 1983
Delta R.T. 0.02 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Instrument :
BNA_E
ClientSampled :
SO-3DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.4	27.6
125	13.0	7.6	11.4

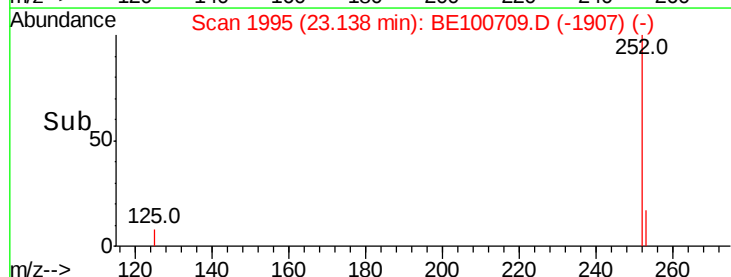
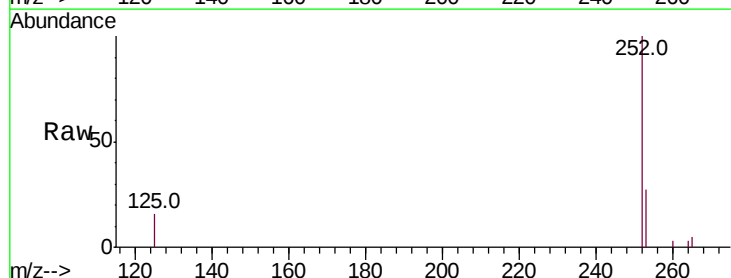
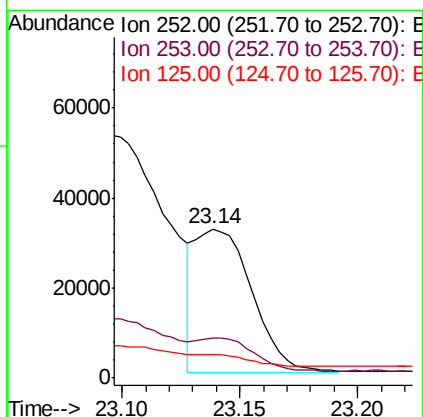
Manual Integrations
APPROVED

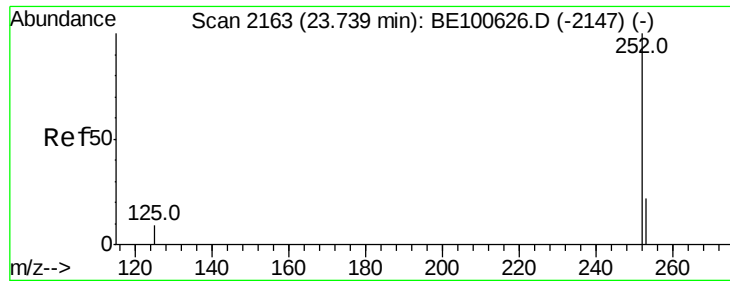
Sohil
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#36
Benzo(k)fluoranthene
Concen: 0.932 ng m
RT: 23.14 min Scan# 1995
Delta R.T. 0.01 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.6	18.4	27.6
125	15.8	11.6	17.4





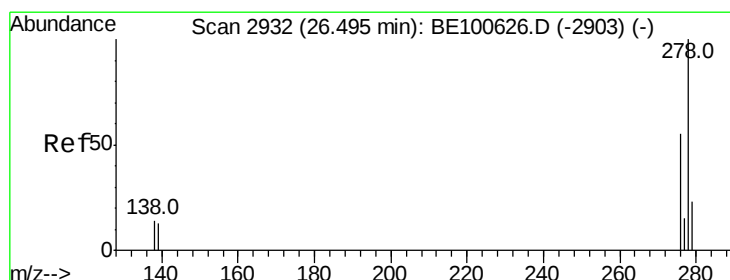
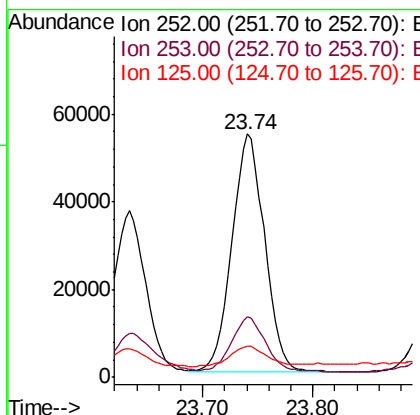
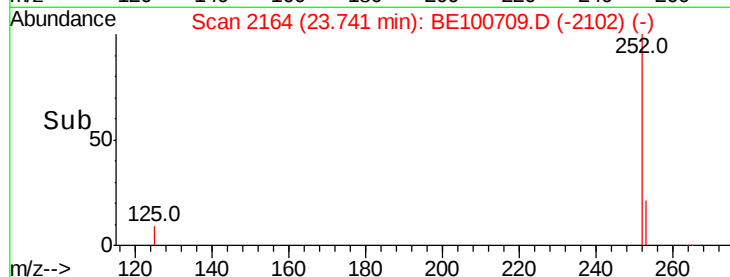
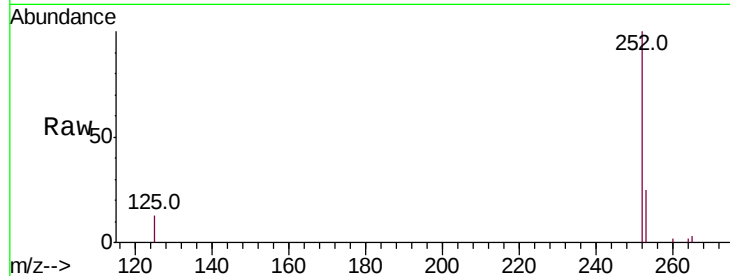
#37
Benzo(a)pyrene
Concen: 2.141 ng
RT: 23.74 min Scan# 2164
Delta R.T. 0.02 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Instrument :
BNA_E
ClientSampled :
SO-3DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.4	27.6
125	13.0	8.2	12.4

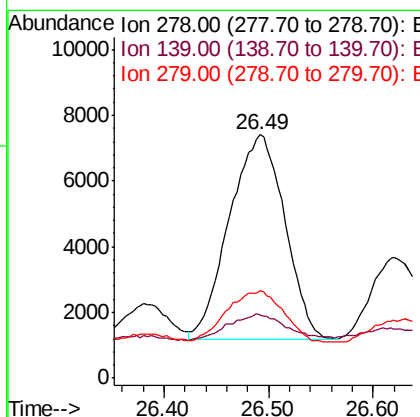
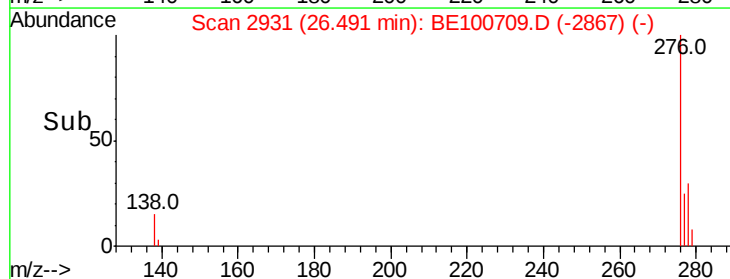
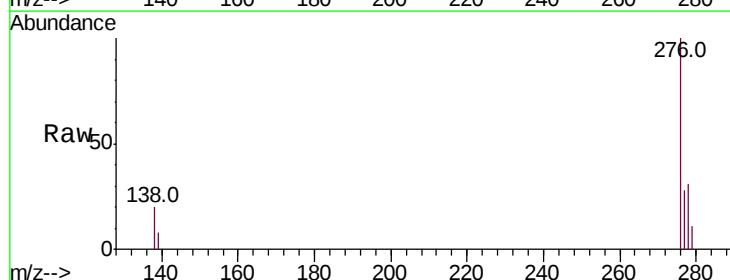
Manual Integrations
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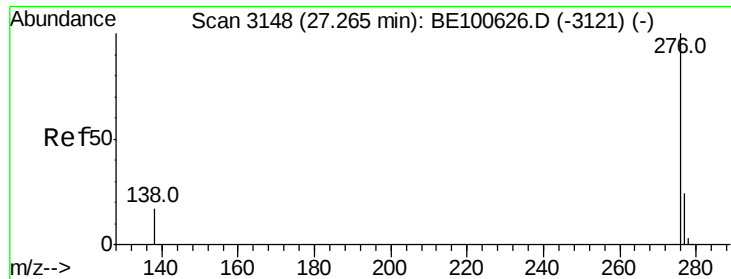
Sohil
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#38
Dibenzo(a,h)anthracene
Concen: 0.430 ng
RT: 26.49 min Scan# 2931
Delta R.T. 0.03 min
Lab File: BE100709.D
Acq: 7 Nov 2019 19:49

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.8	10.9	16.3
279	36.1	19.4	29.2





#39

Benzo(a,h,i)perylene

Concen: 1.518 ng

RT: 27.29 min Scan# 3154

Delta R.T. 0.05 min

Lab File: BE100709.D

Acq: 7 Nov 2019 19:49

Instrument :

BNA_E

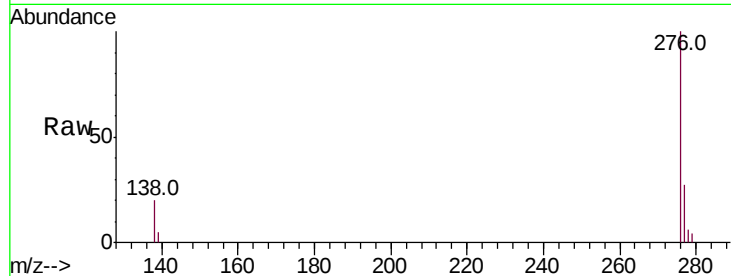
ClientSampleId :

SO-3DL

Tot Ion:	276	Resp:	81911
Ion Ratio	Lower	Upper	
276	100		
277	27.3	19.4	29.0
138	19.8	13.6	20.4

Manual Integrations
APPROVED

Sohil
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Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

