

Data Path : Z:\HPCHEM1\BNA E\DATA\BE082916\
 Data File : BE092287.D
 Acq On : 29 Aug 2016 13:21
 Operator : UM/SJ
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICCC0.4

Manual Integrations
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Quant Time: Aug 29 15:02:11 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE082916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 29 14:46:05 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.19	152	9023	5.00	ng	0.00
7) Naphthalene-d8	10.97	136	39705	5.00	ng	0.00
12) Acenaphthene-d10	14.83	164	21808	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	55741	5.00	ng	0.00
24) Chrysene-d12	21.75	240	64875	5.00	ng	0.00
31) Perylene-d12	24.12	264	60715	5.00	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.71	112	678	0.34	ng	0.00
5) Phenol-d6	7.38	99	843	0.30	ng	0.00
8) Nitrobenzene-d5	9.36	82	782	0.28	ng	0.00
13) 2,4,6-Tribromophenol	16.33	330	213	0.33	ng	0.00
14) 2-Fluorobiphenyl	13.46	172	2648	0.39	ng	0.00
26) Terphenyl-d14	20.19	244	3435	0.31	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.43	88	533	0.46	ng	92
3) n-Nitrosodimethylamine	3.81	42	466	0.33	ng	# 98
6) bis(2-Chloroethyl)ether	7.61	93	699	0.30	ng	96
9) Naphthalene	11.01	128	3542	0.40	ng	97
10) Hexachlorobutadiene	11.30	225	541	0.42	ng	99
11) 2-Methylnaphthalene	12.66	142	2097	0.38	ng	97
15) Acenaphthylene	14.54	152	14104	0.37	ng	99
16) Acenaphthene	14.88	154	2372	0.39	ng	99
17) Fluorene	15.88	166	2816	0.38	ng	99
19) Hexachlorobenzene	16.89	284	869	0.39	ng	# 100
20) Pentachlorophenol	17.26	266	159	0.34	ng	96
21) Phenanthrene	17.63	178	5012	0.35	ng	99
22) Anthracene	17.72	178	4498	0.35	ng	100
23) Fluoranthene	19.63	202	21688	0.38	ng	100
25) Pyrene	19.99	202	22718	0.30	ng	99
27) Benzo(a)anthracene	21.72	228	23081m	0.30	ng	
28) Chrysene	21.79	228	26094m	0.36	ng	
29) Bis(2-ethylhexyl)phthalate	21.66	149	1561	0.16	ng	# 97
30) Indeno(1,2,3-cd)pyrene	26.63	276	22877	0.30	ng	99
32) Benzo(b)fluoranthene	23.39	252	5720	0.36	ng	98
33) Benzo(k)fluoranthene	23.44	252	6122	0.38	ng	98
34) Benzo(a)pyrene	24.01	252	5336	0.36	ng	97
35) Dibenzo(a,h)anthracene	26.67	278	4432	0.32	ng	97
36) Benzo(g,h,i)perylene	27.40	276	21032	0.35	ng	99

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

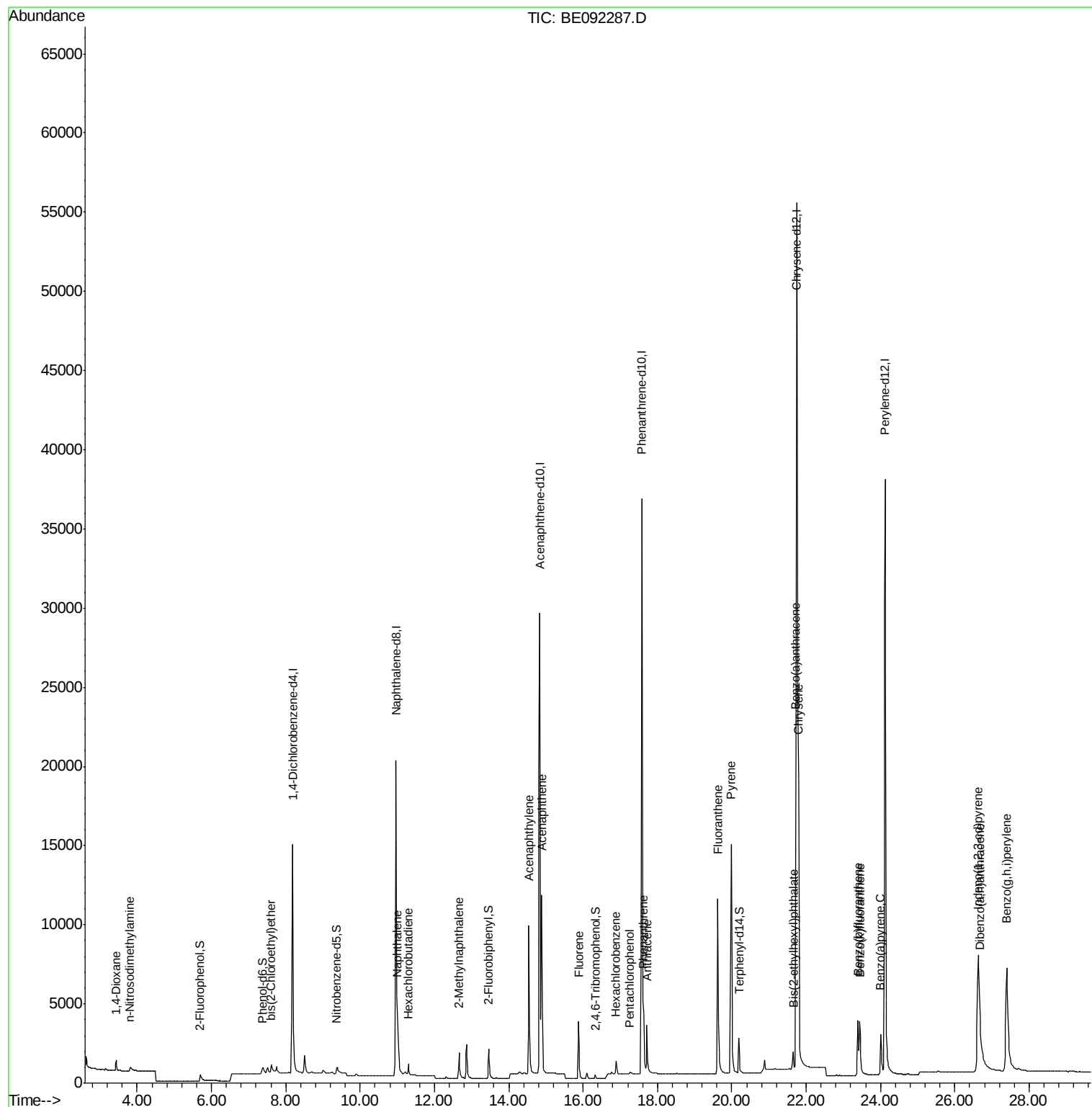
Data Path : Z:\HPCHEM1\BNA E\DATA\BE082916\
Data File : BE092287.D
Acq On : 29 Aug 2016 13:21
Operator : UM/SJ
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

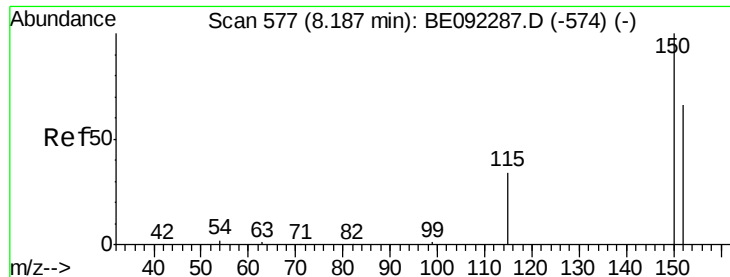
Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

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Quant Time: Aug 29 15:02:11 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE082916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 29 14:46:05 2016
Response via : Initial Calibration





#1

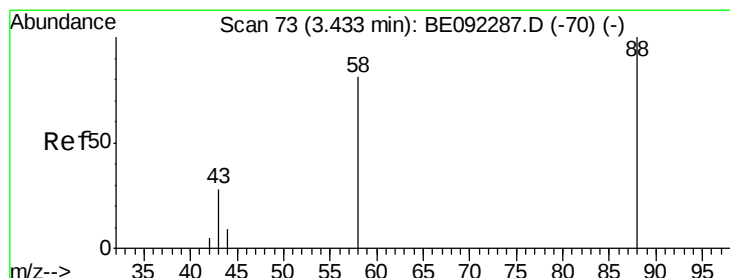
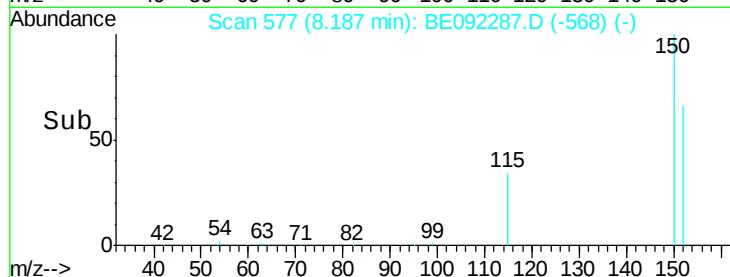
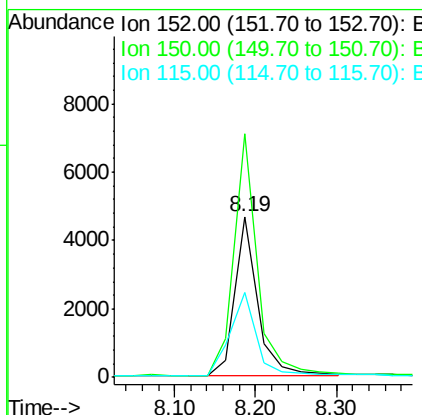
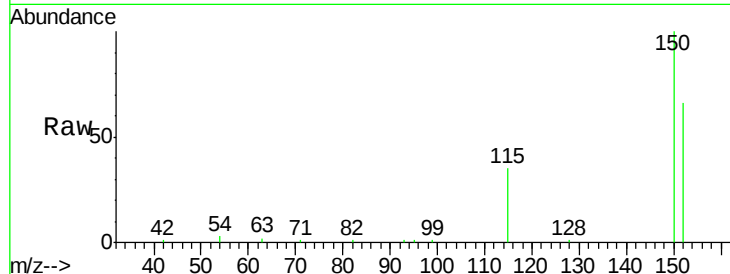
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.19 min Scan# 577
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.3	135.6	203.4
115	52.6	59.4	89.0

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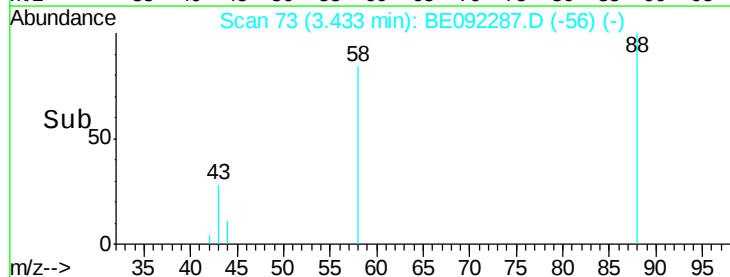
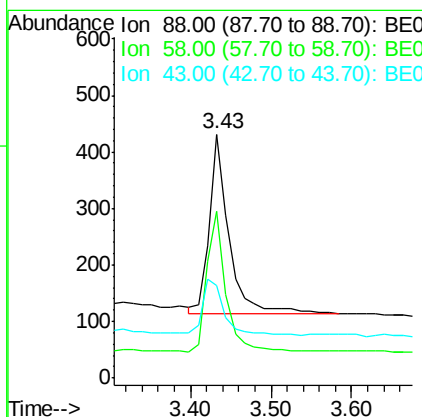
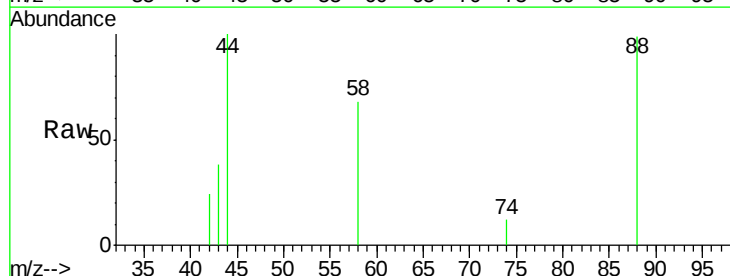
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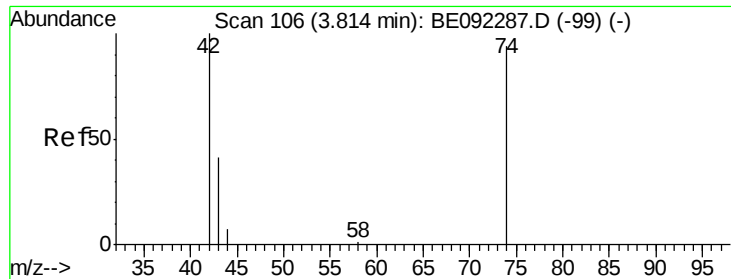


#2

1,4-Dioxane
Concen: 0.46 ng
RT: 3.43 min Scan# 73
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
88	100		
58	75.0	64.4	96.6
43	35.3	33.4	50.2





#3

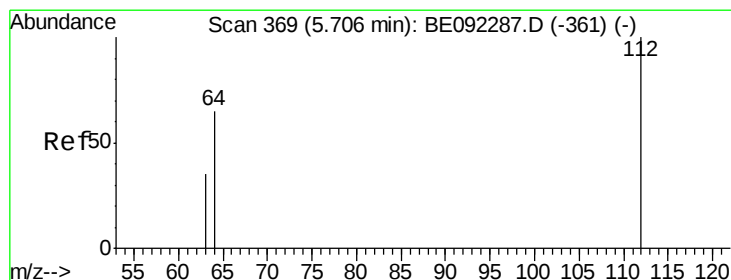
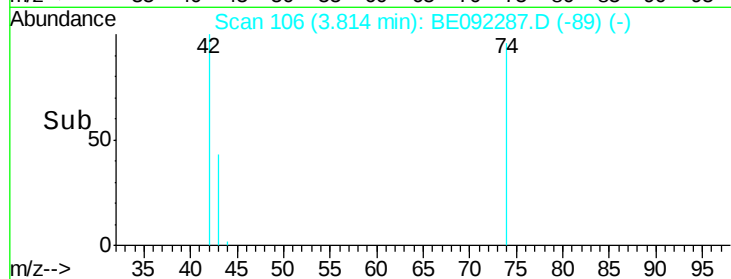
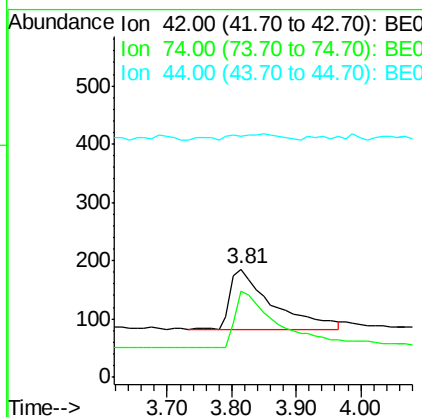
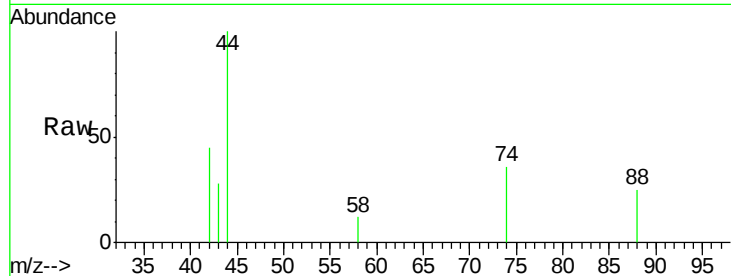
n-Nitrosodimethylamine
 Concen: 0.33 ng
 RT: 3.81 min Scan# 106
 Delta R.T. 0.00 min
 Lab File: BE092287.D
 Acq: 29 Aug 2016 13:21

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
42	100		
74	95.5	77.2	115.8
44	0.0	5.0	7.4#

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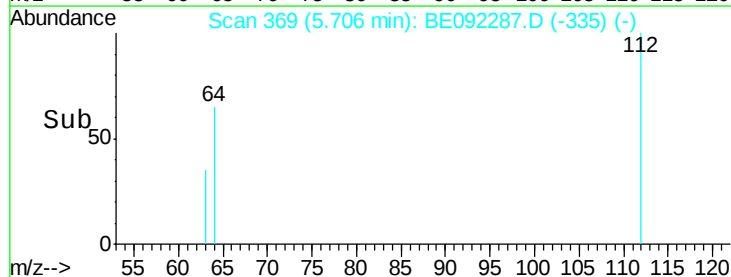
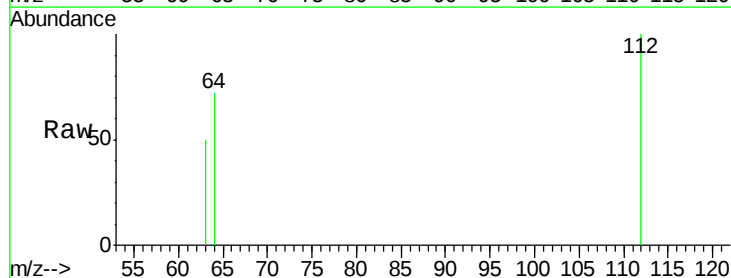
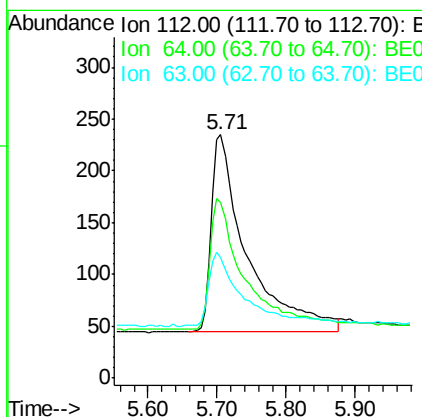
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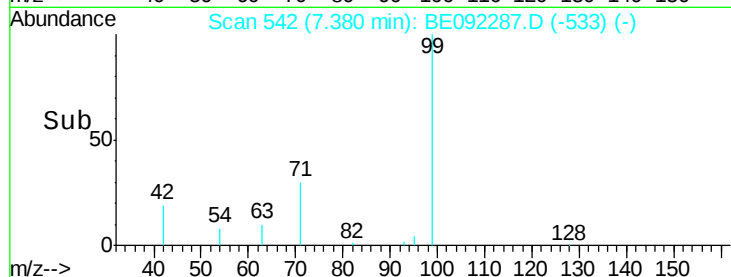
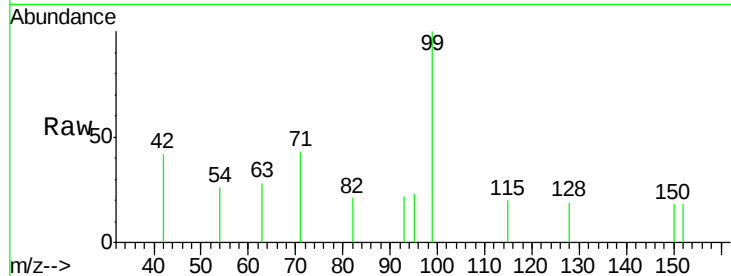
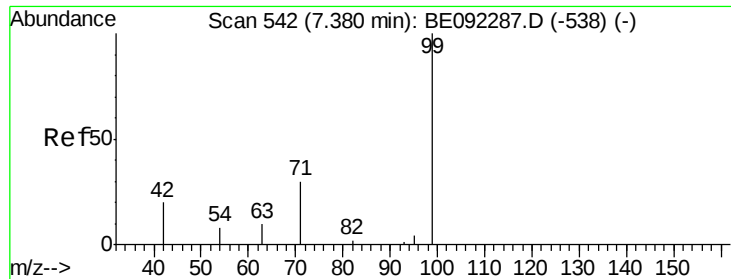


#4

2-Fluorophenol
 Concen: 0.34 ng
 RT: 5.71 min Scan# 369
 Delta R.T. 0.00 min
 Lab File: BE092287.D
 Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.9	53.2	79.8
63	38.6	27.4	41.2





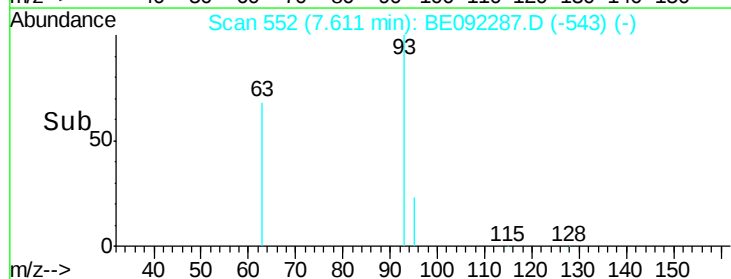
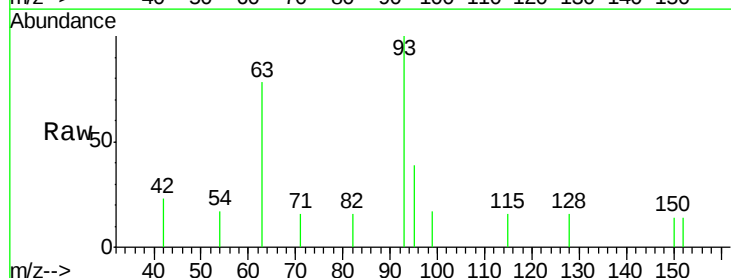
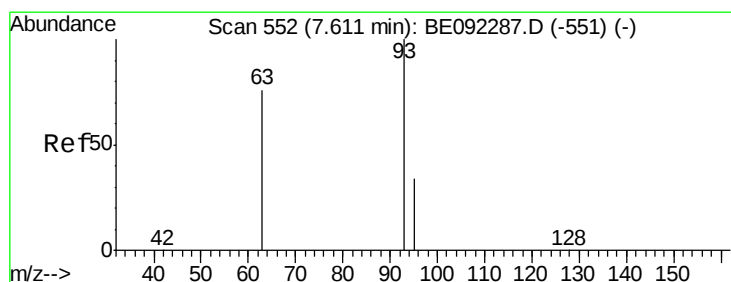
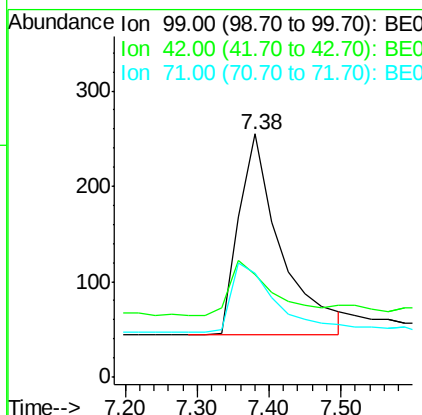
#5
Phenol-d6
Concen: 0.30 ng
RT: 7.38 min Scan# 542
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Tot Ion	Ratio	Lower	Upper
99	100		
42	0.0	0.0	0.0
71	0.0	29.8	44.8#

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

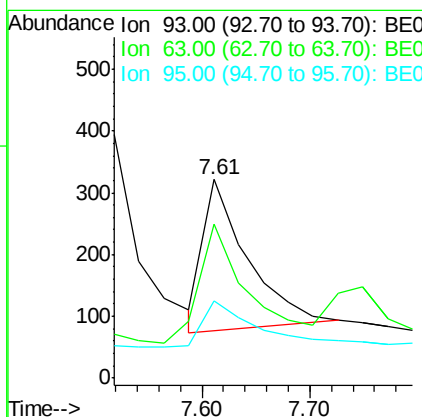
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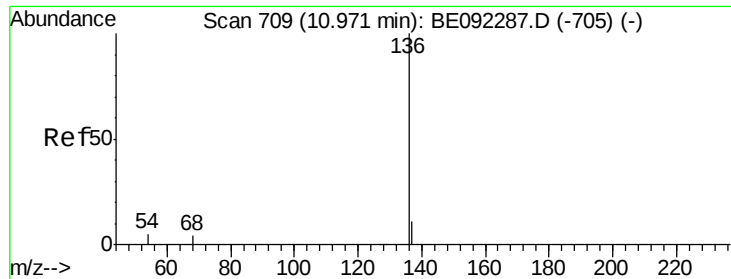
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#6
bis(2-Chloroethyl)ether
Concen: 0.30 ng
RT: 7.61 min Scan# 552
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
93	100		
63	89.4	68.5	102.7
95	36.9	27.2	40.8





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.97 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Instrument :

BNA_E

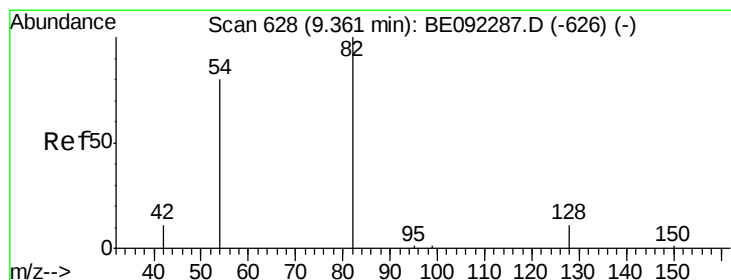
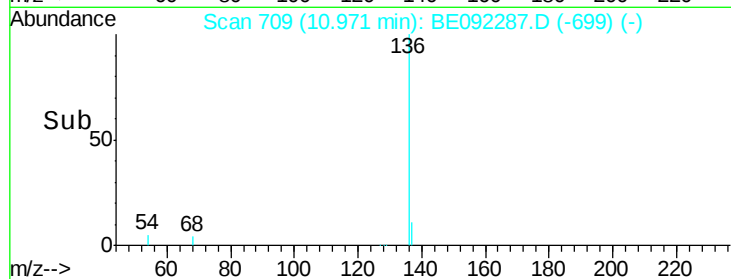
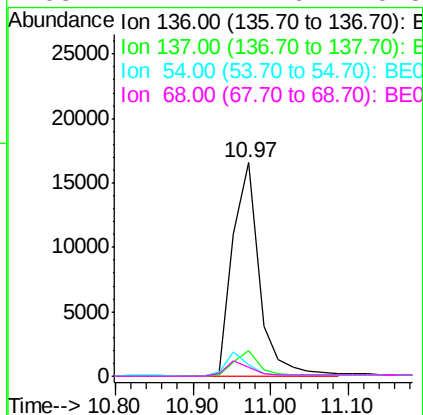
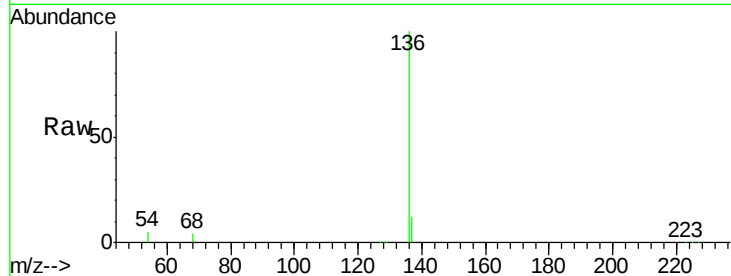
ClientSampled :

SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
136	100		
137	11.7	8.8	13.2
54	5.5	6.2	9.4#
68	4.1	4.6	6.8#

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#8

Nitrobenzene-d5

Concen: 0.28 ng

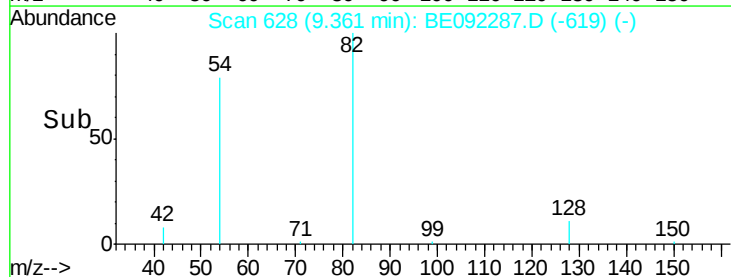
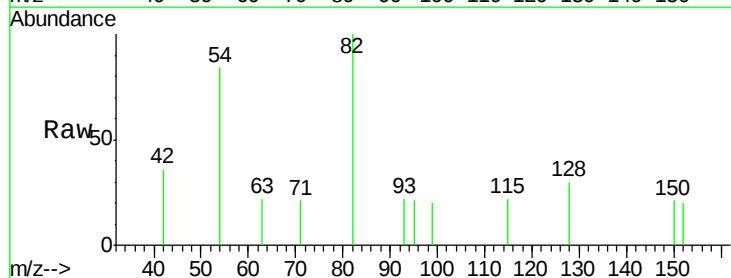
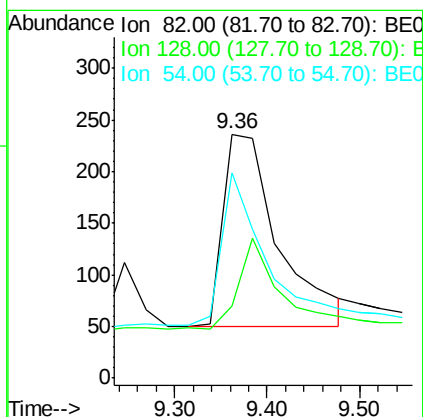
RT: 9.36 min Scan# 628

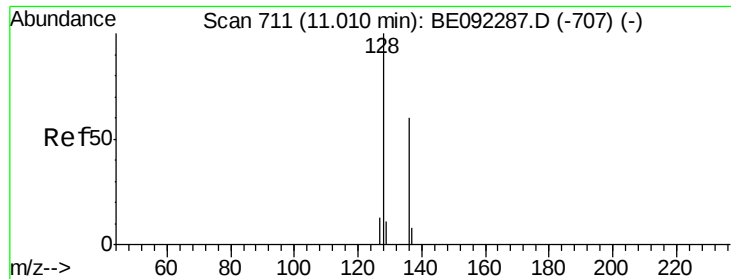
Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
82	100		
128	29.7	45.0	67.4#
54	84.3	45.4	68.2#





#9

Naphthalene

Concen: 0.40 ng

RT: 11.01 min Scan# 711

Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Instrument :

BNA_E

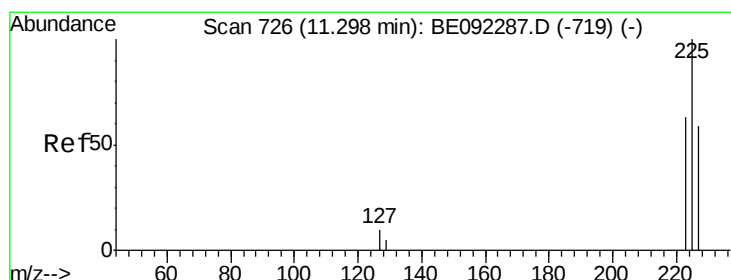
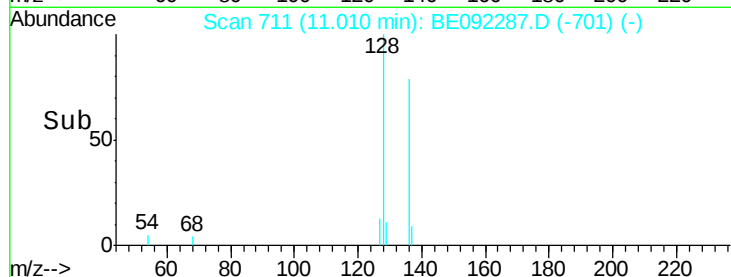
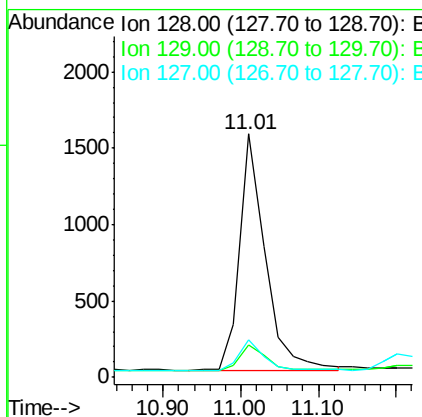
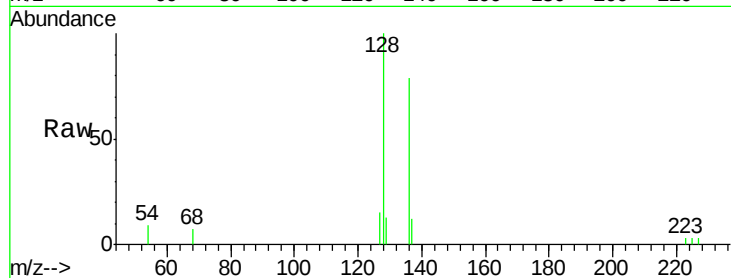
ClientSampleId :

SSTDICCC0.4

Tot Ion:128	Resp:	3542
Ion Ratio	Lower	Upper
128 100		
129 13.4	11.5	17.3
127 15.3	11.0	16.6

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#10

Hexachlorobutadiene

Concen: 0.42 ng

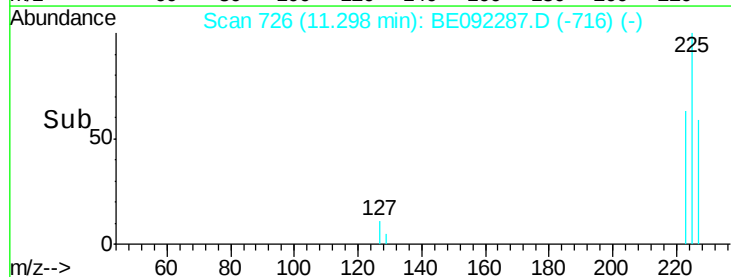
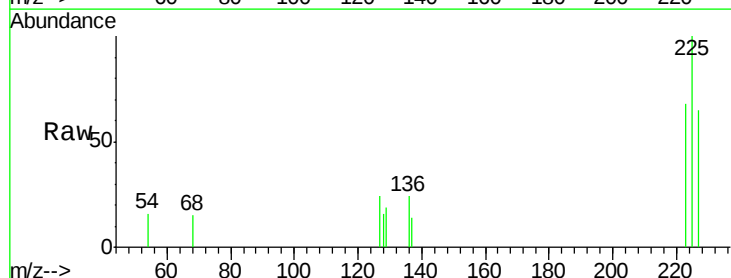
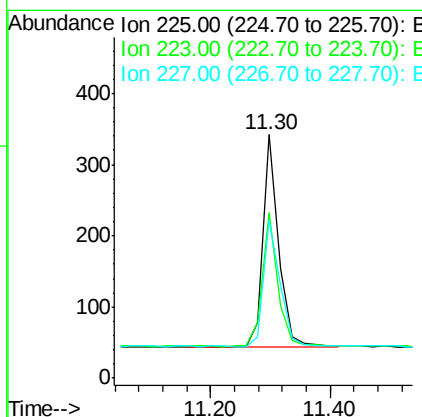
RT: 11.30 min Scan# 726

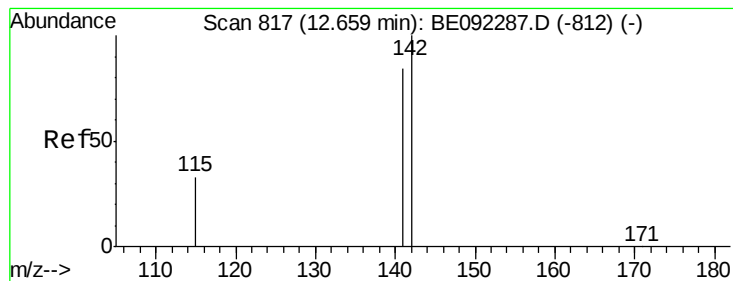
Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Tgt Ion:225	Resp:	541
Ion Ratio	Lower	Upper
225 100		
223 64.3	52.2	78.4
227 63.8	51.0	76.6





#11

2-Methylnaphthalene

Concen: 0.38 ng

RT: 12.66 min Scan# 817

Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Instrument :

BNA_E

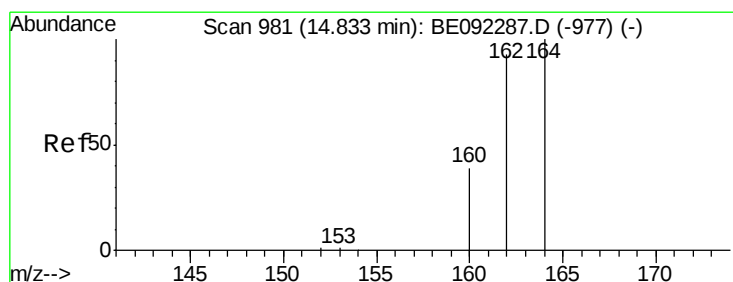
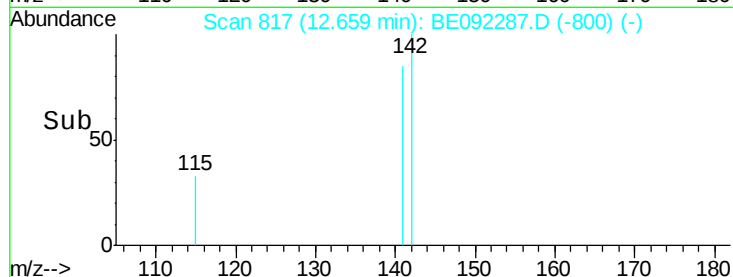
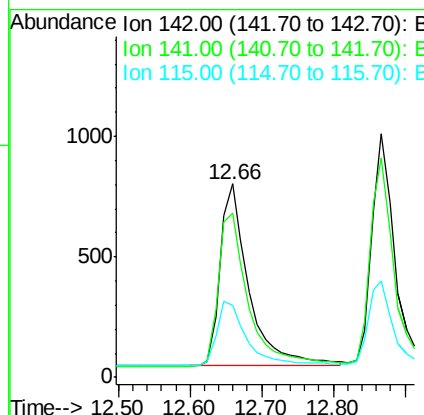
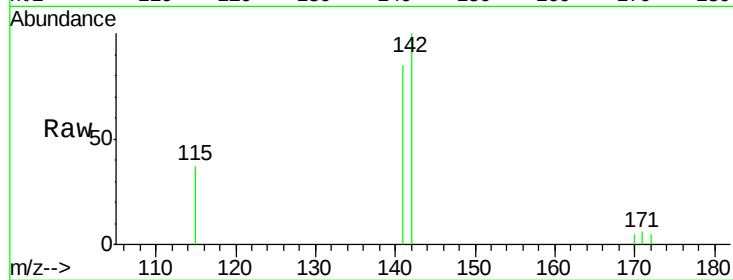
ClientSampled :

SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.7	70.6	105.8
115	37.2	31.0	46.4

Manual Integrations
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#12

Acenaphthene-d10

Concen: 5.00 ng

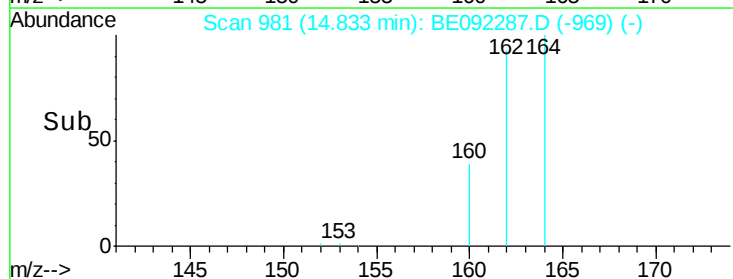
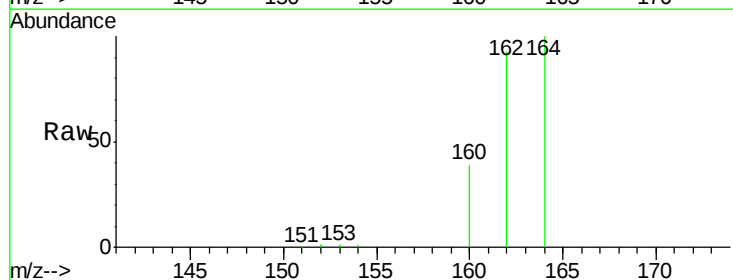
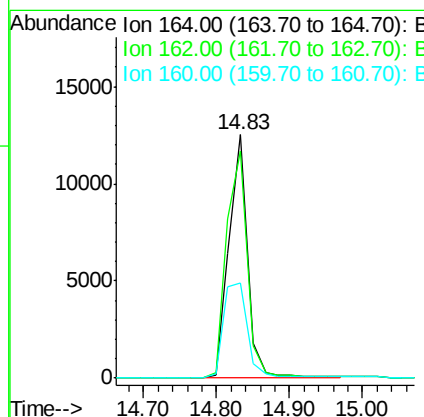
RT: 14.83 min Scan# 981

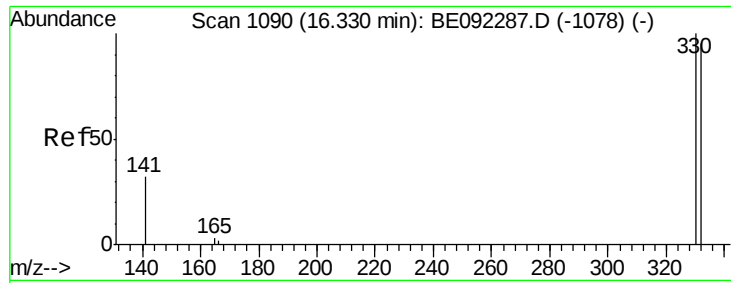
Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	93.5	83.3	124.9
160	39.1	38.0	57.0





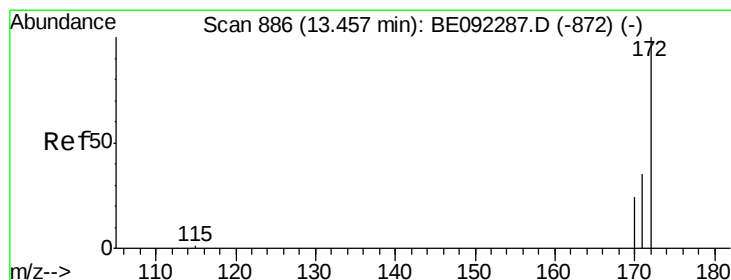
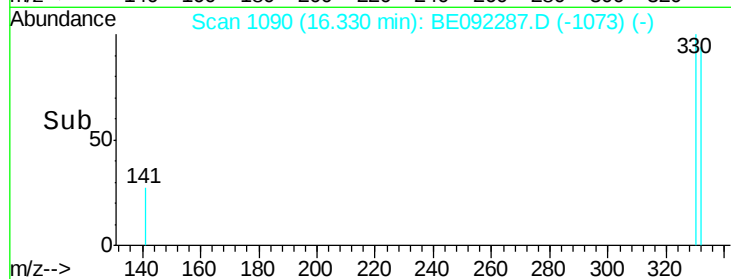
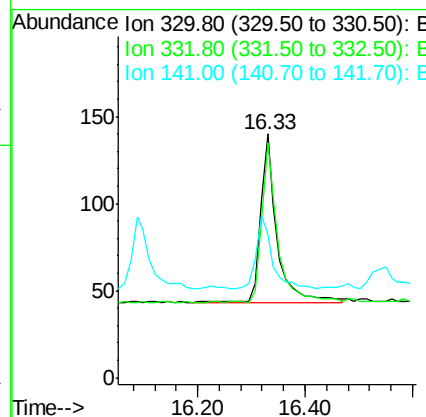
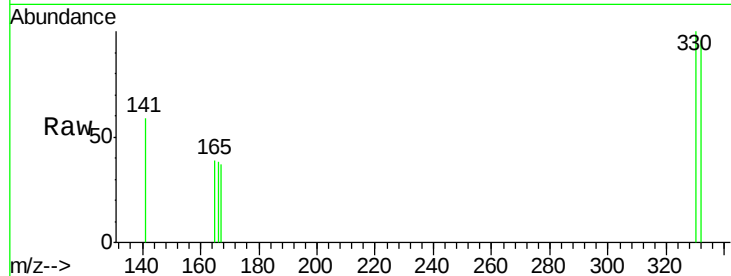
#13
 2,4,6-Tribromophenol
 Concen: 0.33 ng
 RT: 16.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: BE092287.D
 Acq: 29 Aug 2016 13:21

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
330	100		
332	92.5	75.4	113.0
141	41.3	37.7	56.5

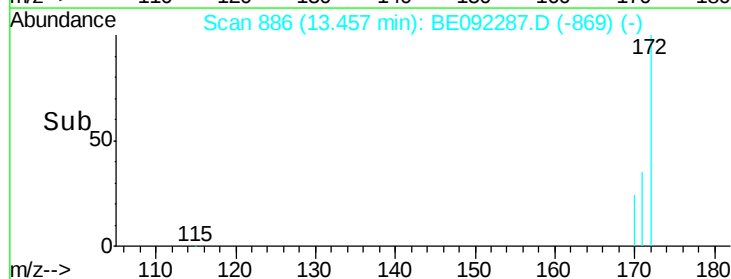
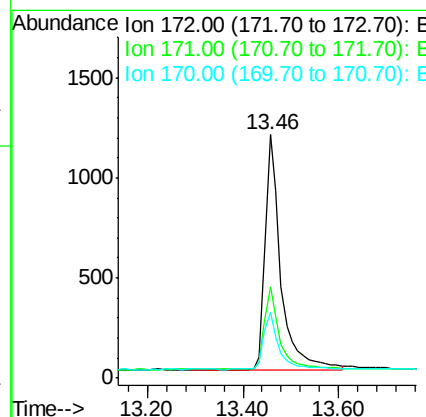
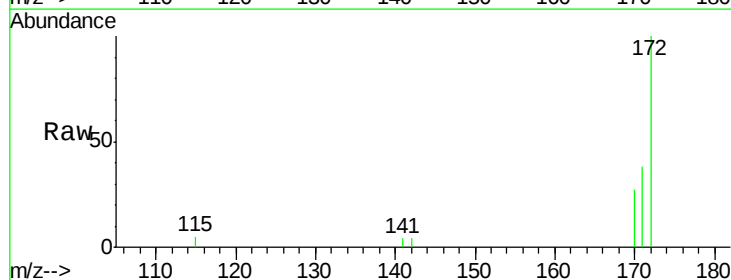
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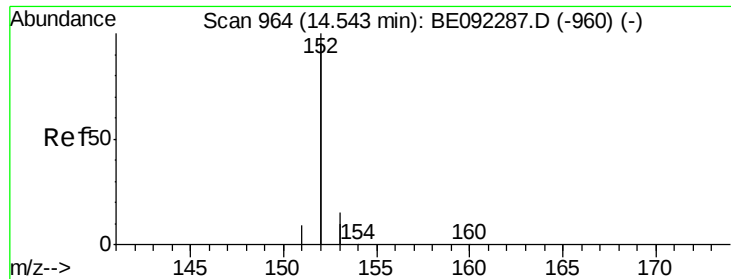
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#14
 2-Fluorobiphenyl
 Concen: 0.39 ng
 RT: 13.46 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: BE092287.D
 Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.7	26.8	40.2
170	26.8	17.8	26.6#





#15

Acenaphthylene

Concen: 0.37 ng

RT: 14.54 min Scan# 964

Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Instrument :

BNA_E

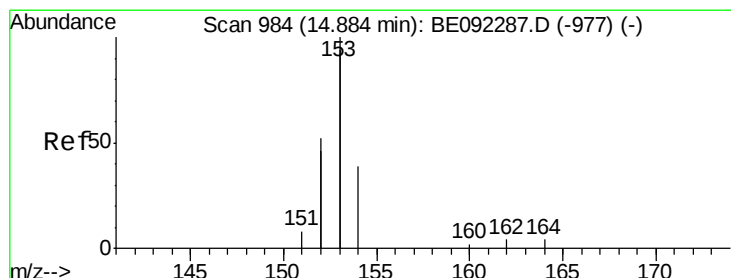
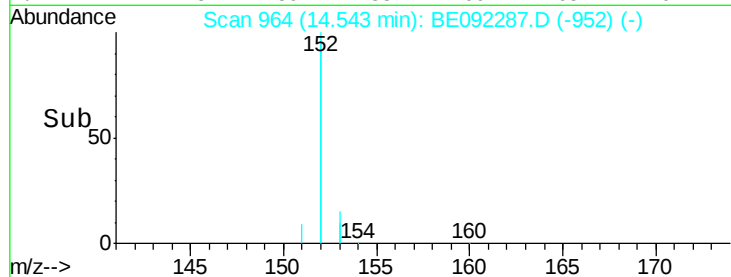
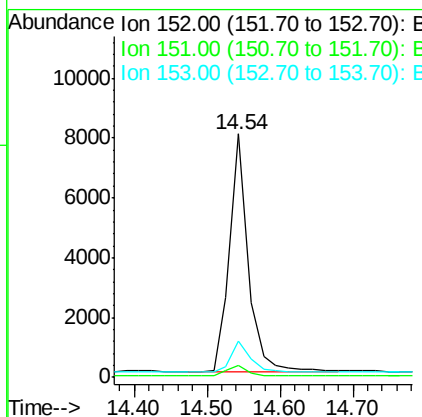
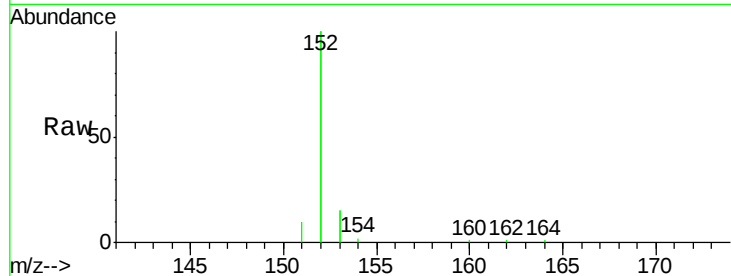
ClientSampled :

SSTDICCC0.4

Tot Ion:	152	Resp:	14104
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.8	5.8
153	13.1	10.2	15.2

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#16

Acenaphthene

Concen: 0.39 ng

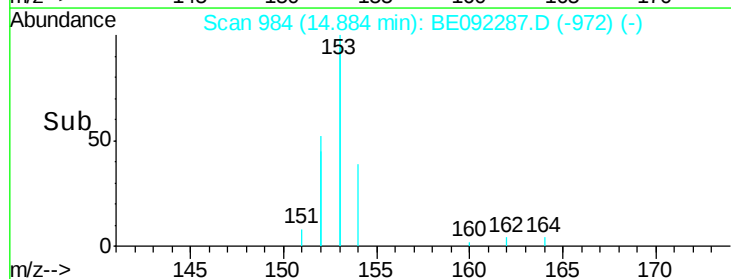
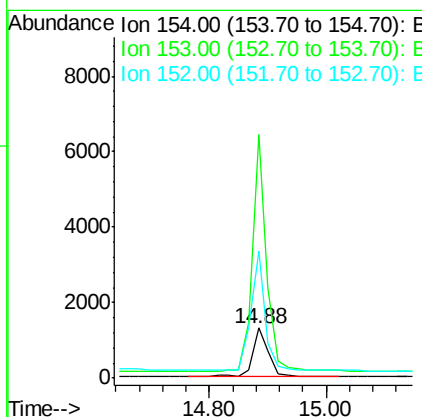
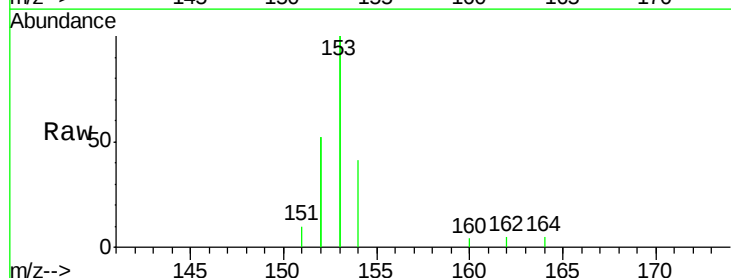
RT: 14.88 min Scan# 984

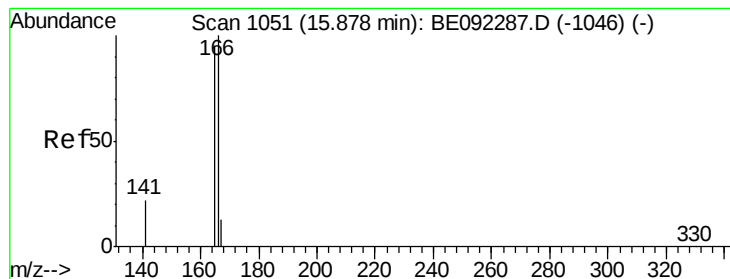
Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Tgt Ion:	154	Resp:	2372
Ion Ratio	Lower	Upper	
154	100		
153	444.1	355.0	532.4
152	227.1	179.7	269.5





#17

Fluorene

Concen: 0.38 ng

RT: 15.88 min Scan# 1051

Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Instrument :

BNA_E

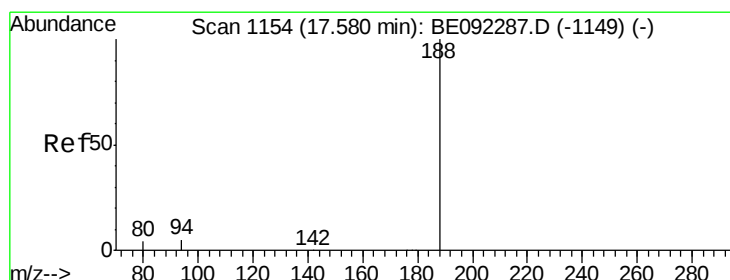
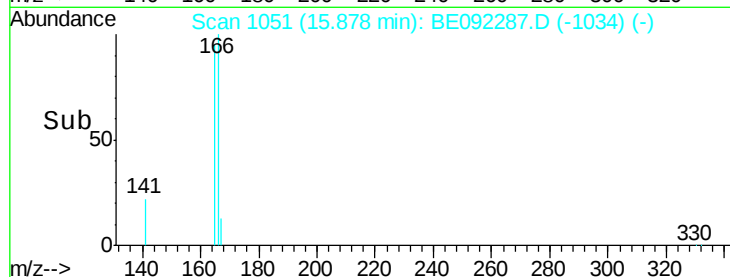
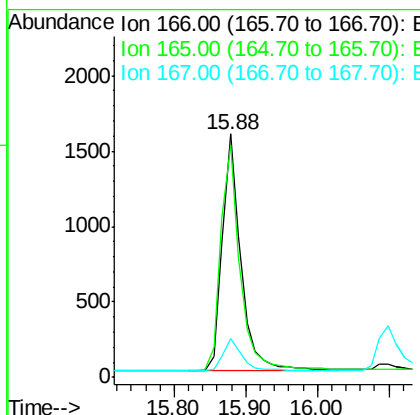
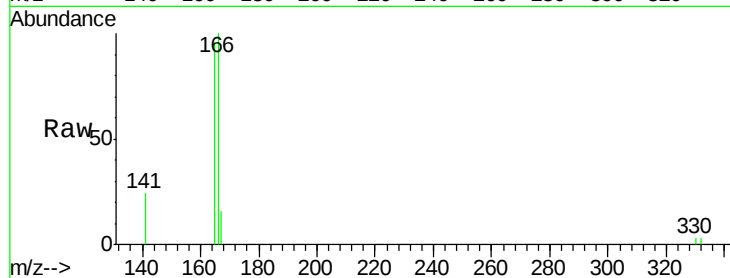
ClientSampleId :

SSTDICCC0.4

Tot Ion:	166	Resp:	2816
Ion Ratio	Lower	Upper	
166	100		
165	98.8	80.1	120.1
167	13.5	10.6	16.0

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#18

Phenanthrene-d10

Concen: 5.00 ng

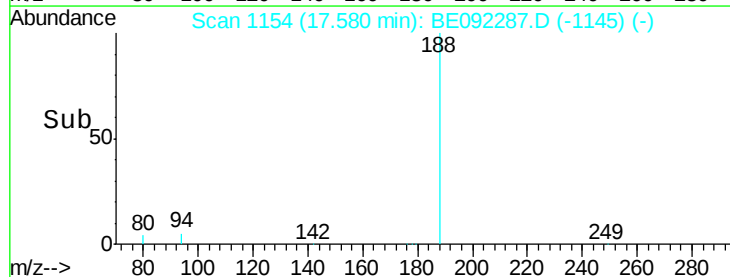
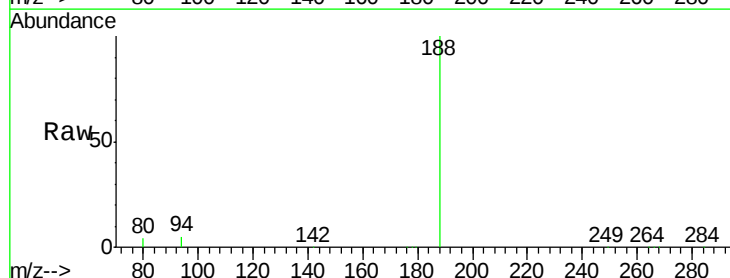
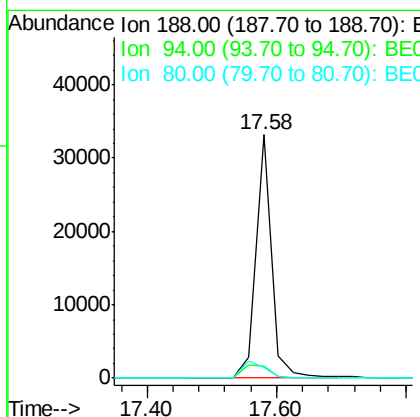
RT: 17.58 min Scan# 1154

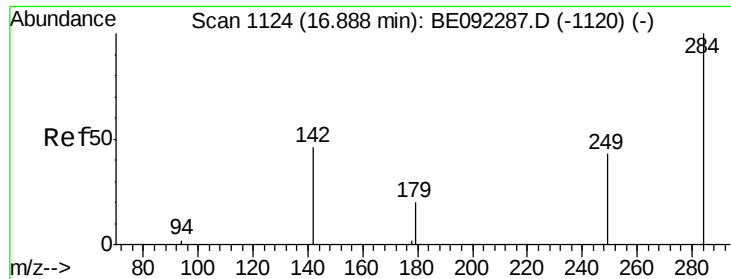
Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Tgt Ion:	188	Resp:	55741
Ion Ratio	Lower	Upper	
188	100		
94	5.1	9.2	13.8#
80	4.5	9.1	13.7#





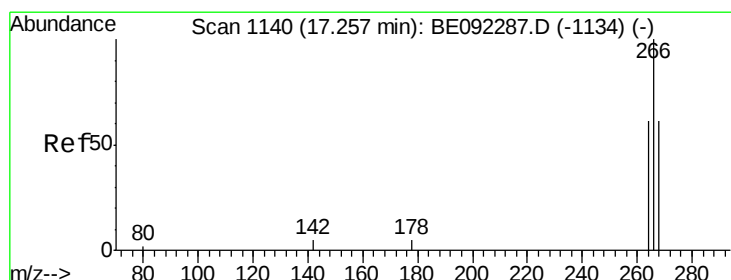
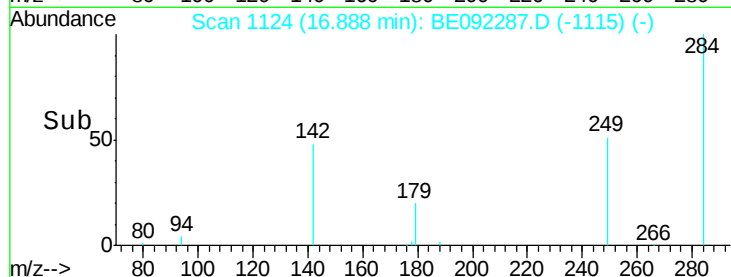
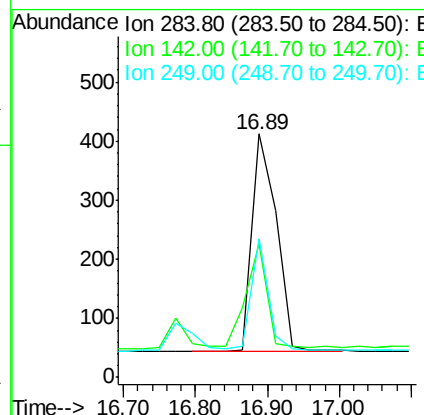
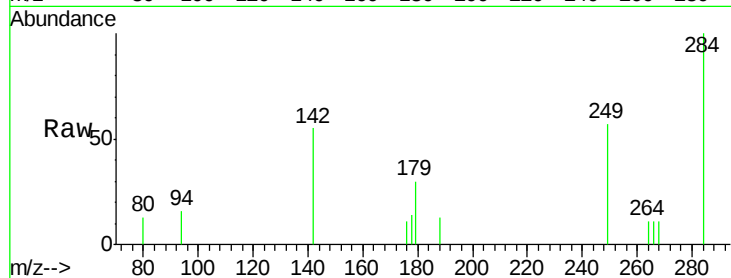
#19
Hexachlorobenzene
Concen: 0.39 ng
RT: 16.89 min Scan# 1124
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Instrument :
BNA_E
ClientSampled :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
284	100		
142	40.4	0.0	0.0#
249	35.9	0.0	0.0#

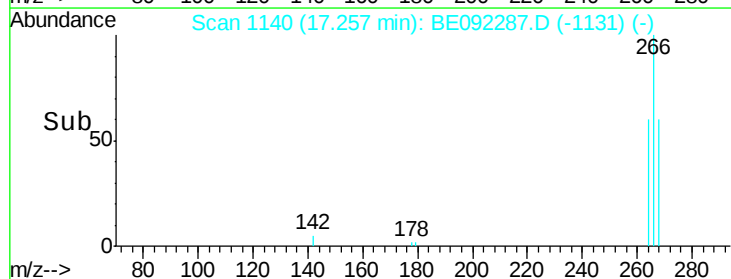
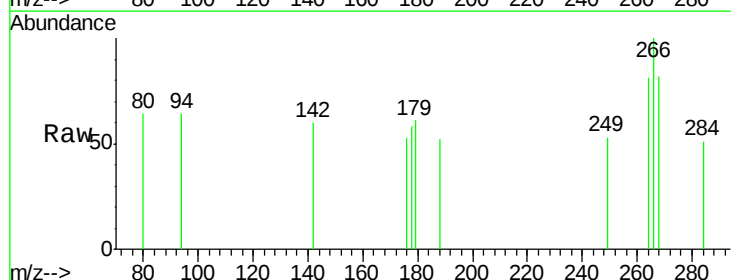
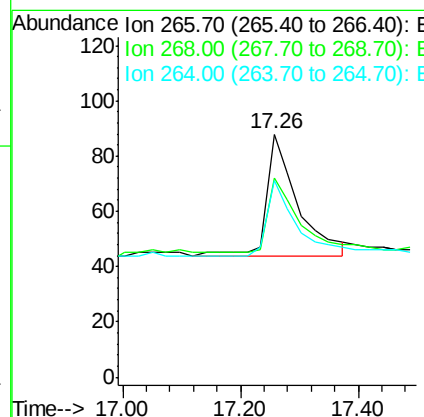
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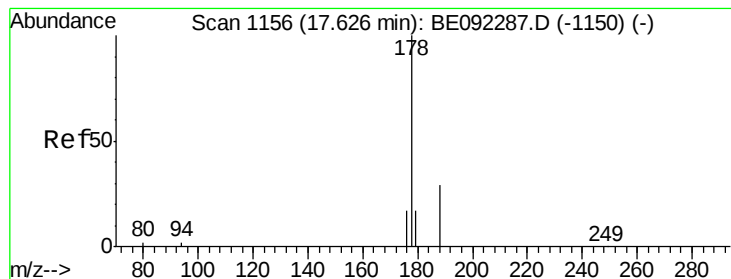
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#20
Pentachlorophenol
Concen: 0.34 ng
RT: 17.26 min Scan# 1140
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
266	100		
268	81.8	62.3	93.5
264	80.7	67.4	101.0





#21

Phenanthrene

Concen: 0.35 ng

RT: 17.63 min Scan# 1156

Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

Tot Ion:178 Resp: 5012

Ion Ratio Lower Upper

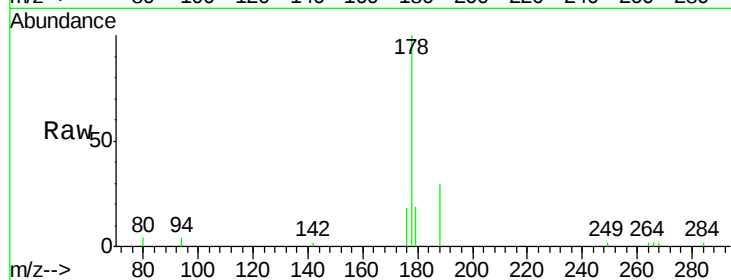
178 100

176 19.2 15.1 22.7

179 16.5 12.9 19.3

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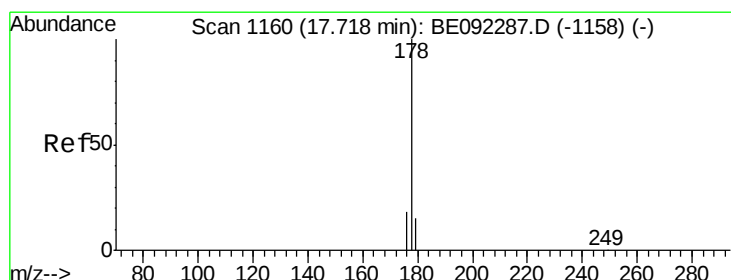
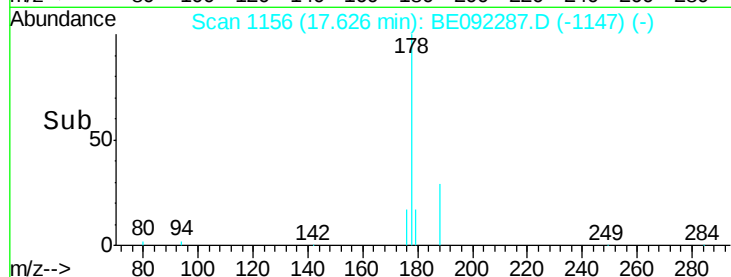
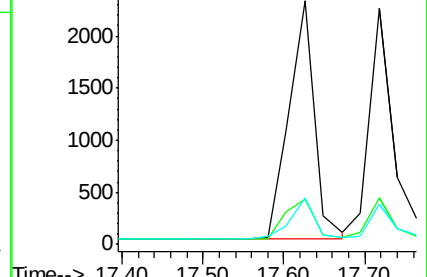
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#22

Anthracene

Concen: 0.35 ng

RT: 17.72 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Tgt Ion:178 Resp: 4498

Ion Ratio Lower Upper

178 100

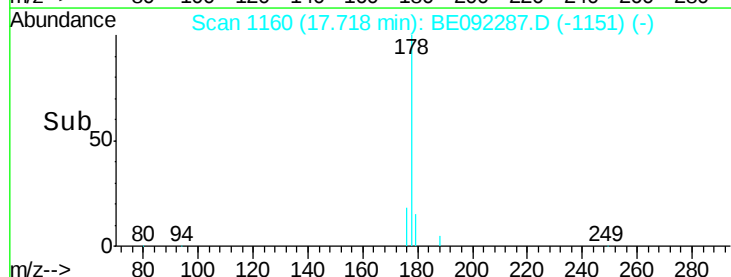
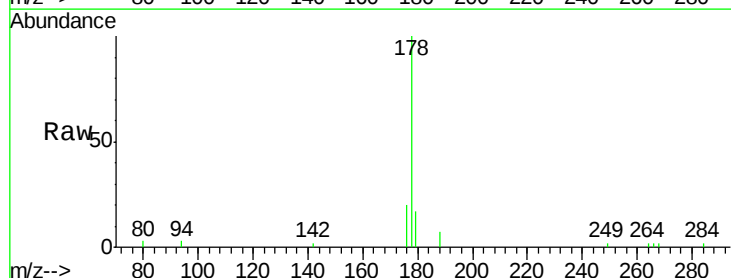
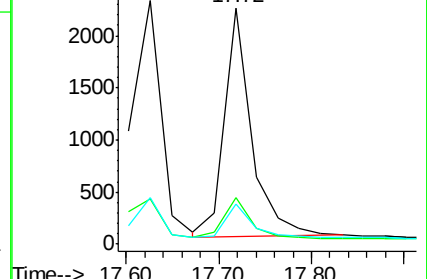
176 18.6 15.0 22.4

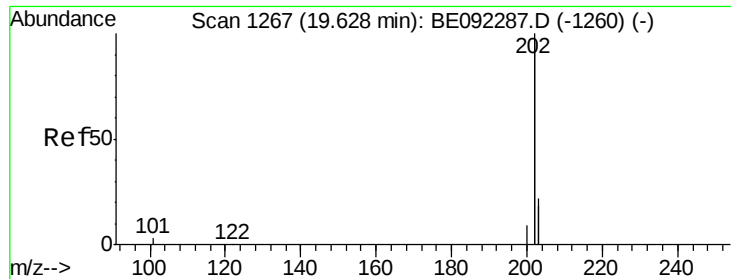
179 15.2 12.0 18.0

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Fluoranthene

Concen: 0.38 ng

RT: 19.63 min Scan# 1267

Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Instrument :

BNA_E

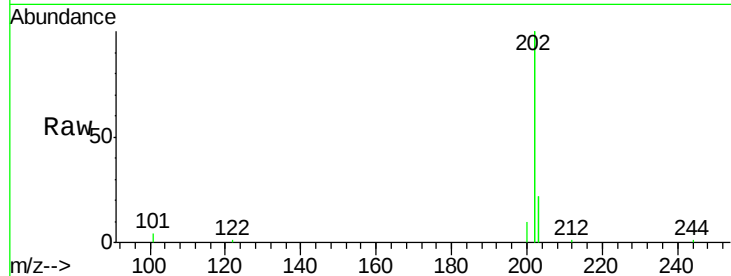
ClientSampleId :

SSTDICCC0.4

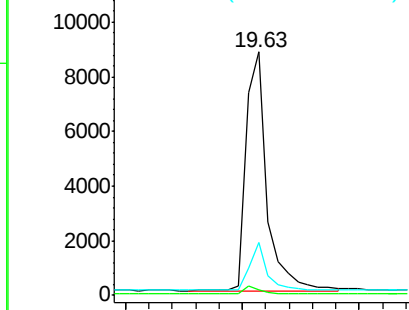
Tot Ion:	202	Resp:	21688
Ion Ratio	Lower	Upper	
202	100		
101	2.7	2.2	3.4
203	17.3	13.7	20.5

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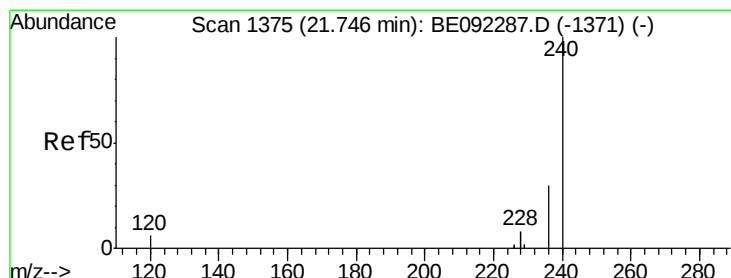
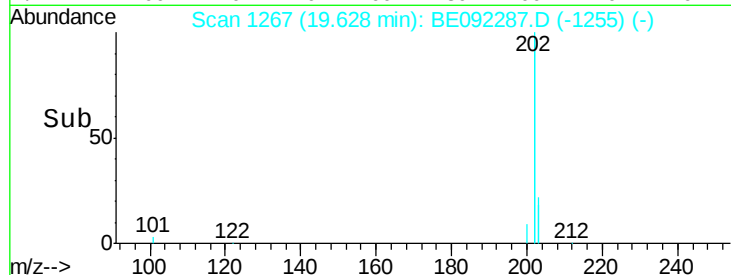
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time--> 19.40 19.60 19.80



#24

Chrysene-d12

Concen: 5.00 ng

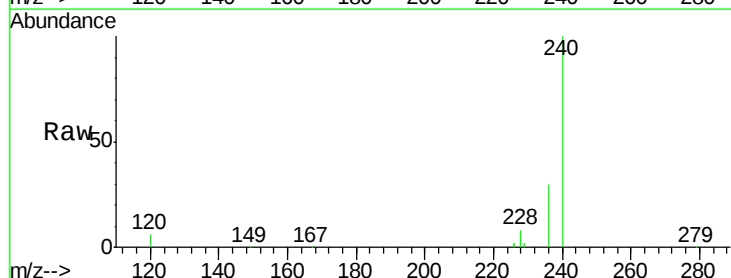
RT: 21.75 min Scan# 1375

Delta R.T. 0.00 min

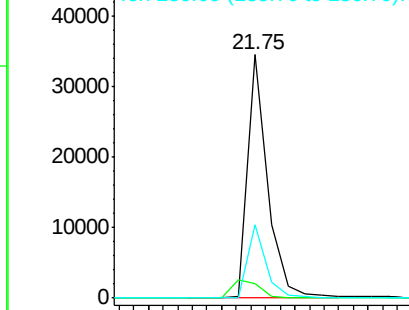
Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

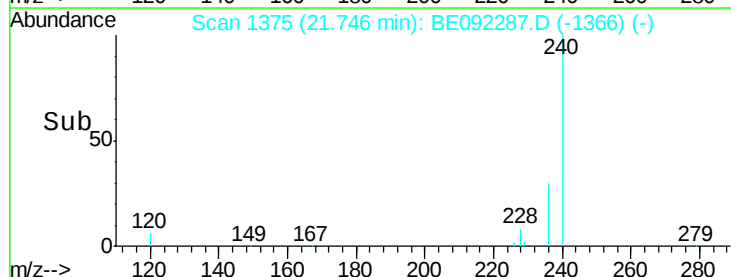
Tgt Ion:	240	Resp:	64875
Ion Ratio	Lower	Upper	
240	100		
120	6.0	1.2	1.8#
236	30.2	17.1	25.7#

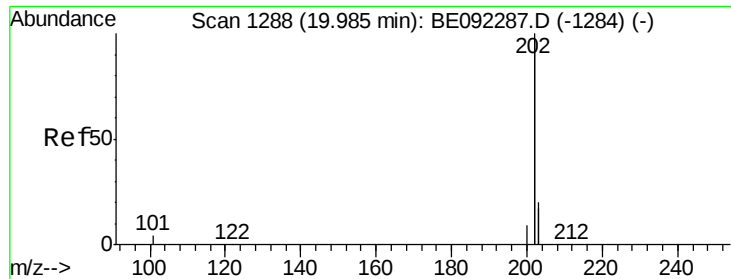


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time--> 21.60 21.70 21.80 21.90





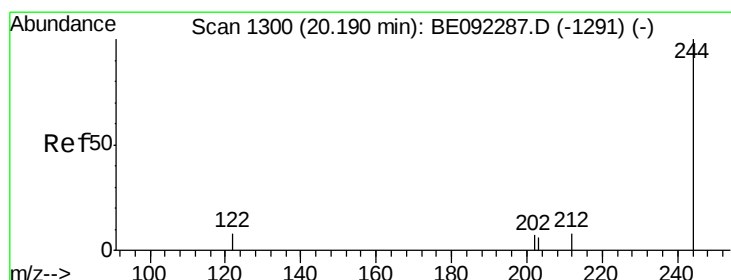
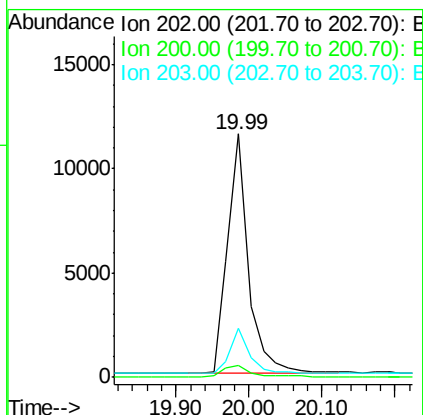
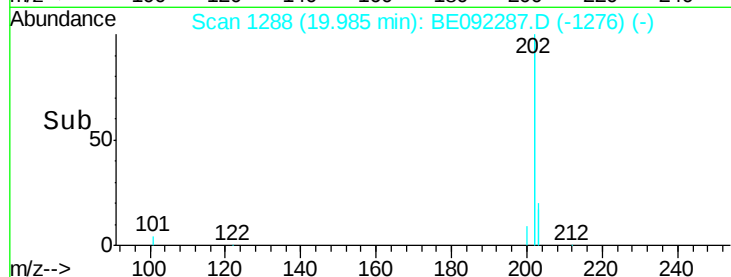
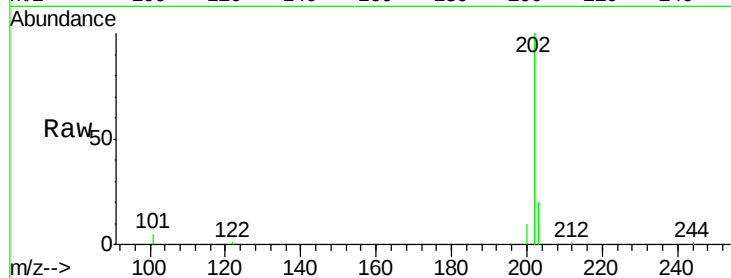
#25
Pvrene
Concen: 0.30 ng
RT: 19.99 min Scan# 1288
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.4	4.2	6.4
203	17.8	14.0	21.0

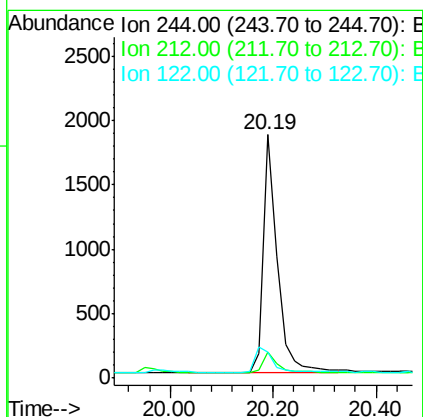
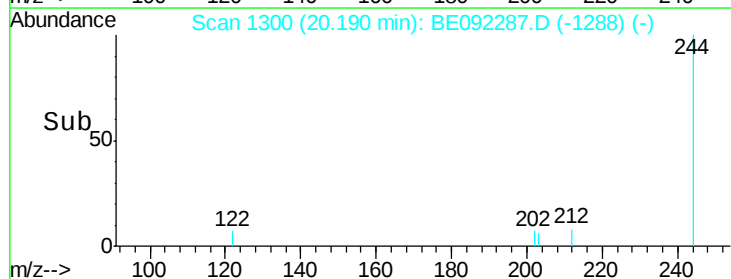
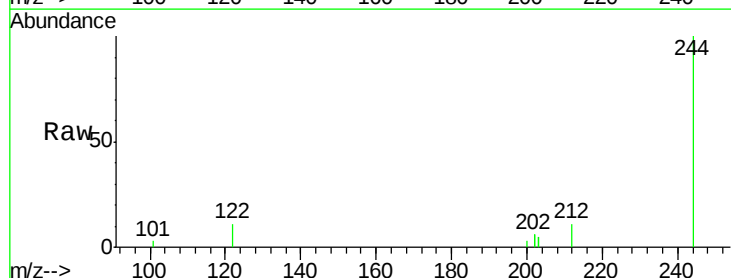
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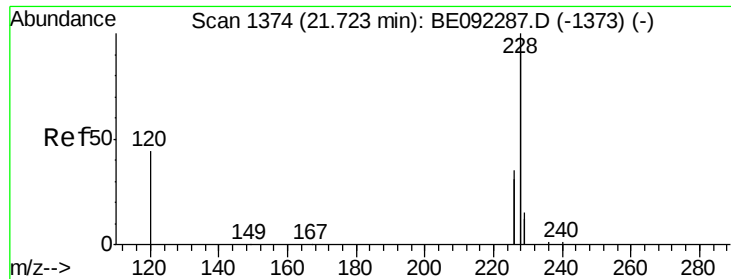
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#26
Terphenyl-d14
Concen: 0.31 ng
RT: 20.19 min Scan# 1300
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	10.2	15.2
122	10.6	15.9	23.9#





#27

Benzo(a)anthracene

Concen: 0.30 ng m

RT: 21.72 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Instrument :

BNA_E

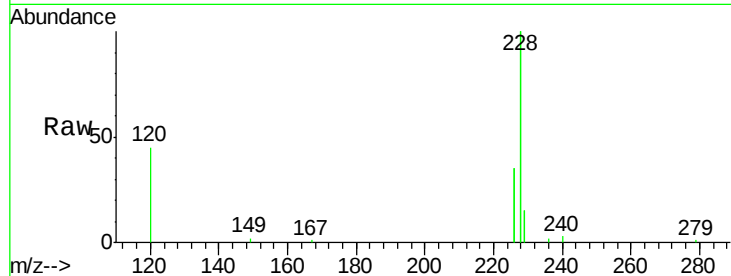
ClientSampleId :

SSTDICCC0.4

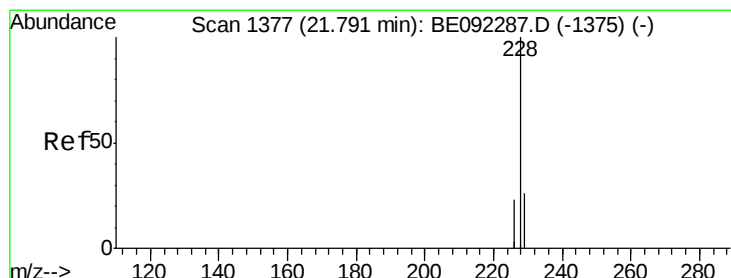
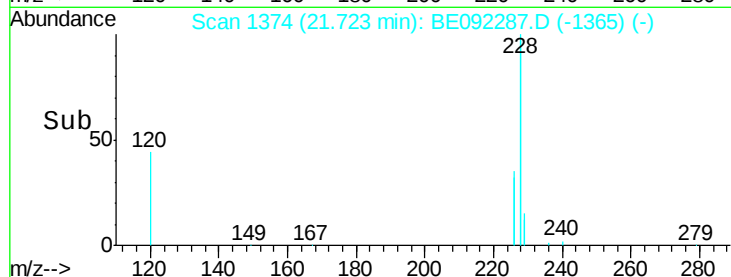
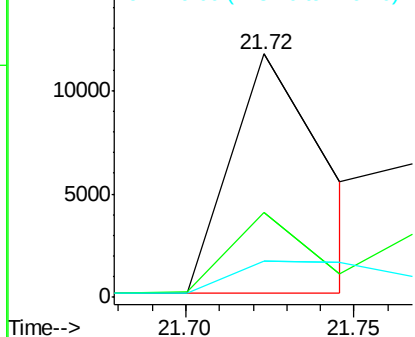
Tot Ion:	228	Resp:	23081
Ion Ratio	Lower	Upper	
228	100		
226	34.8	15.9	23.9#
229	15.1	22.4	33.6#

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#28

Chrysene

Concen: 0.36 ng m

RT: 21.79 min Scan# 1377

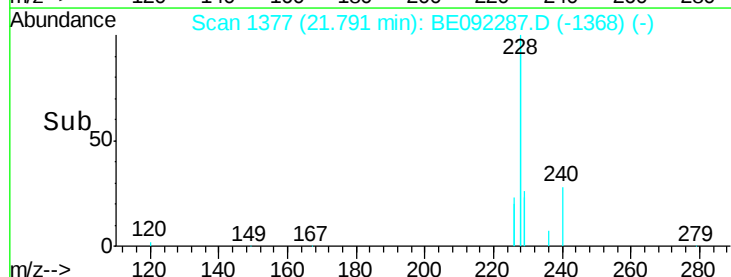
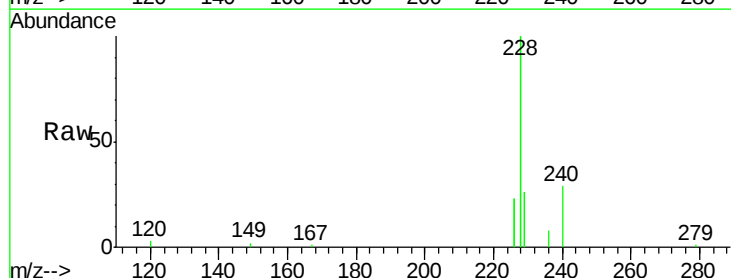
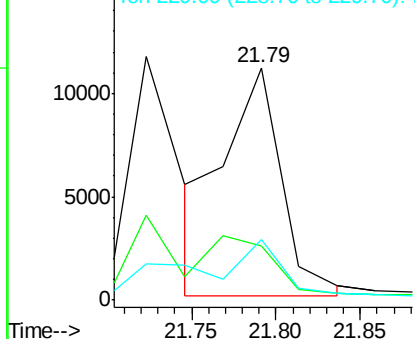
Delta R.T. 0.00 min

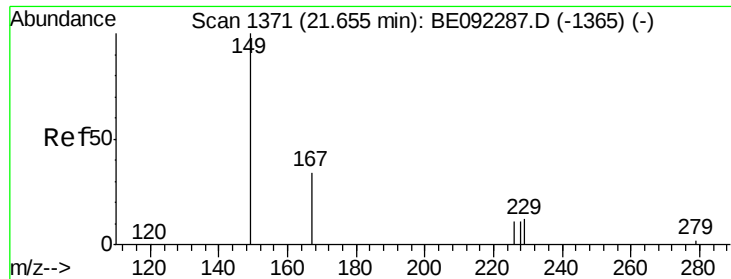
Lab File: BE092287.D

Acq: 29 Aug 2016 13:21

Tgt Ion:	228	Resp:	26094
Ion Ratio	Lower	Upper	
228	100		
226	23.3	18.3	27.5
229	26.0	18.6	27.8

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





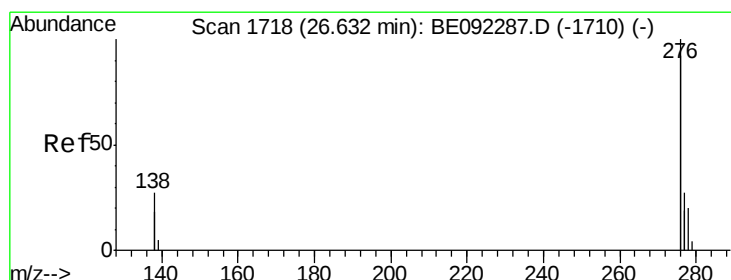
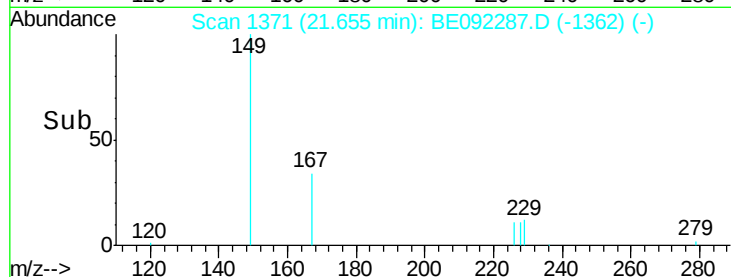
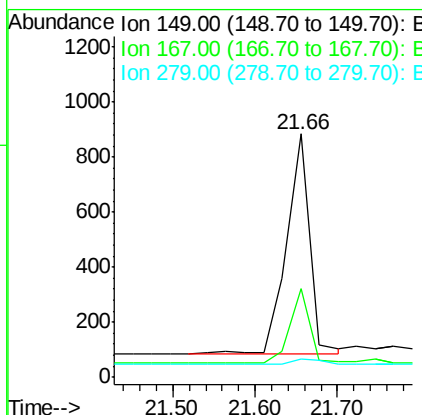
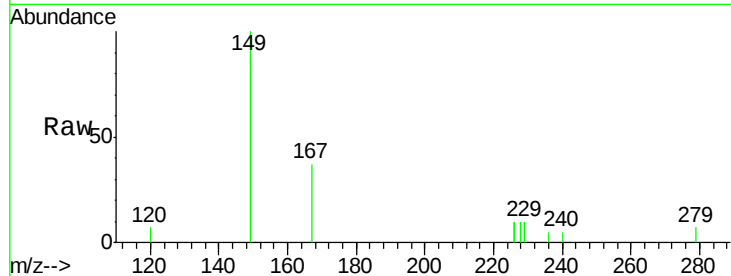
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 0.16 ng
 RT: 21.66 min Scan# 1371
 Delta R.T. 0.00 min
 Lab File: BE092287.D
 Acq: 29 Aug 2016 13:21

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

Tot Ion	Ratio	Lower	Upper
149	100		
167	29.0	22.1	33.1
279	2.9	0.0	0.0

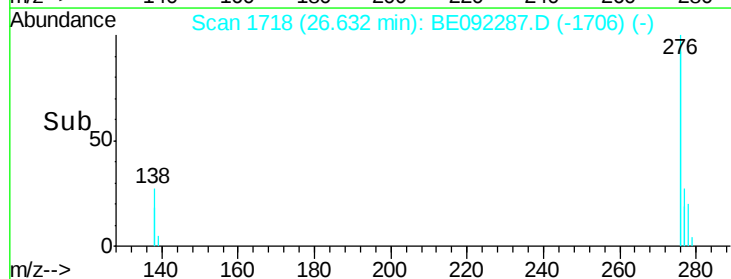
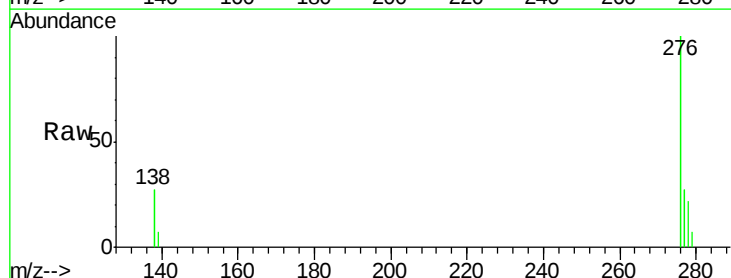
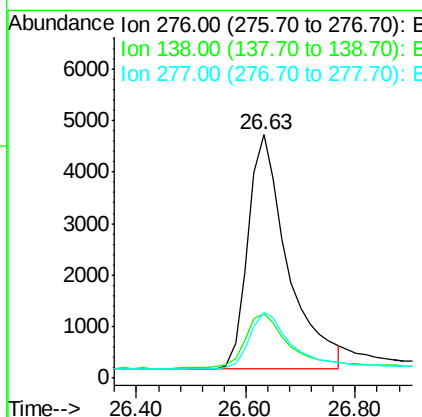
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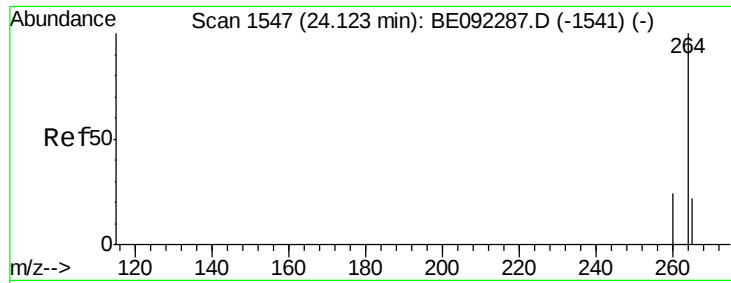
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#30
 Indeno(1,2,3-cd)pyrene
 Concen: 0.30 ng
 RT: 26.63 min Scan# 1718
 Delta R.T. 0.00 min
 Lab File: BE092287.D
 Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.4	21.3	31.9
277	24.8	19.7	29.5





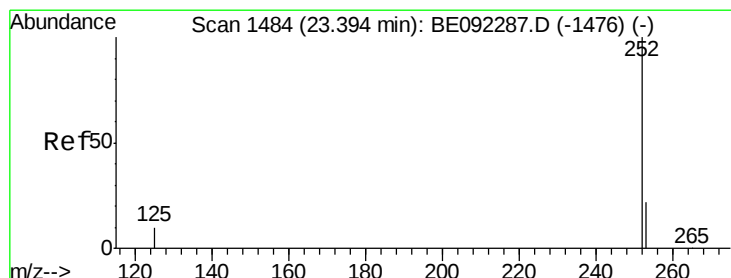
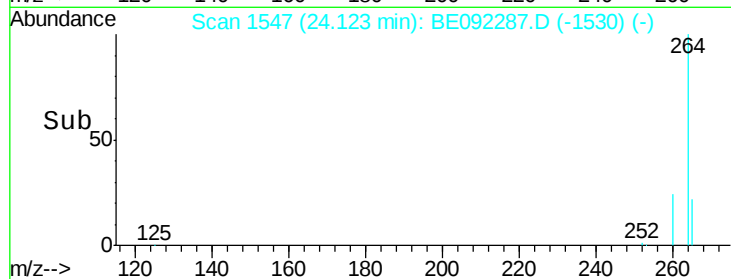
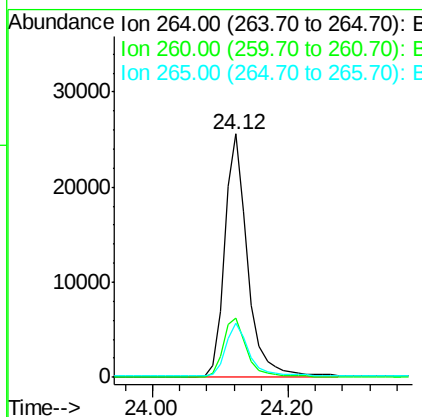
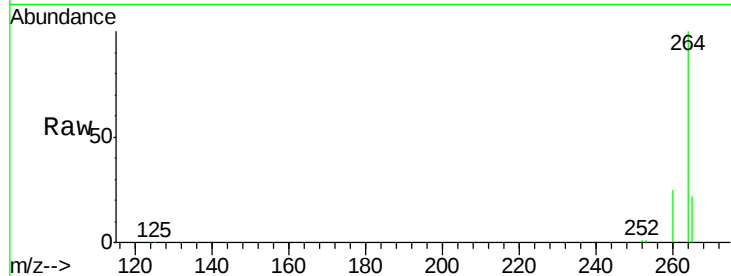
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.12 min Scan# 1547
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	22.3	18.2	27.4

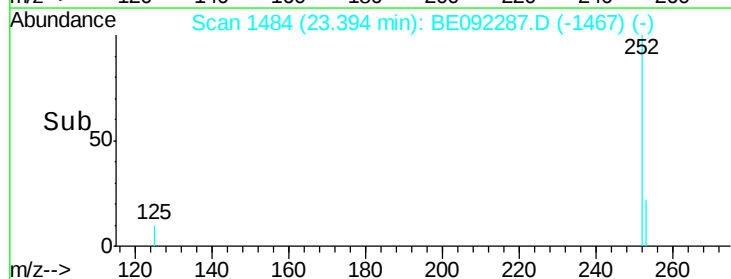
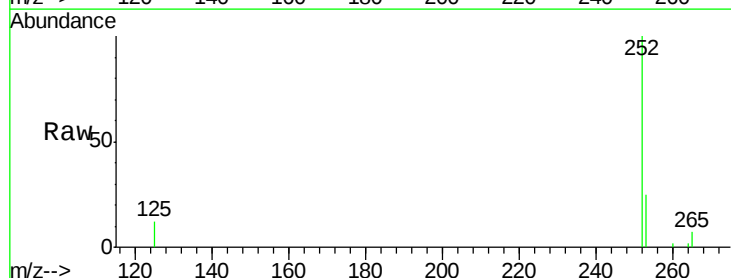
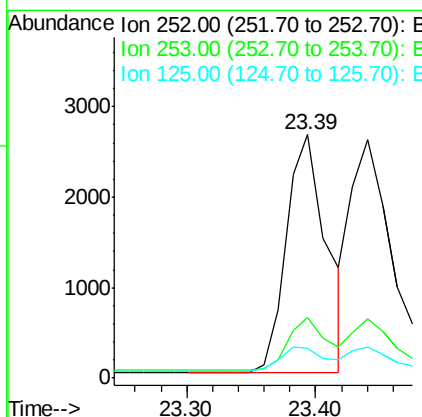
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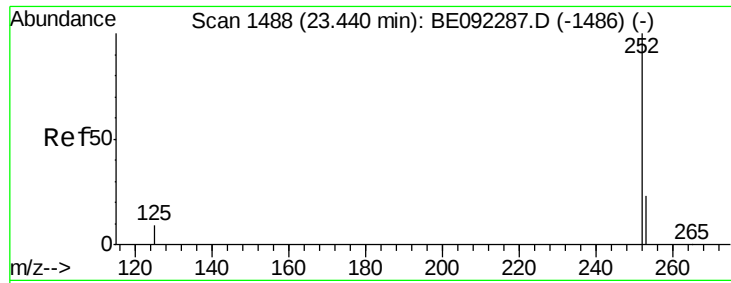
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#32
Benzo(b)fluoranthene
Concen: 0.36 ng
RT: 23.39 min Scan# 1484
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.0	28.4
125	12.2	10.3	15.5





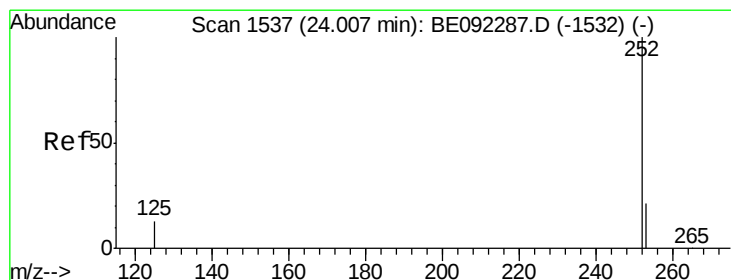
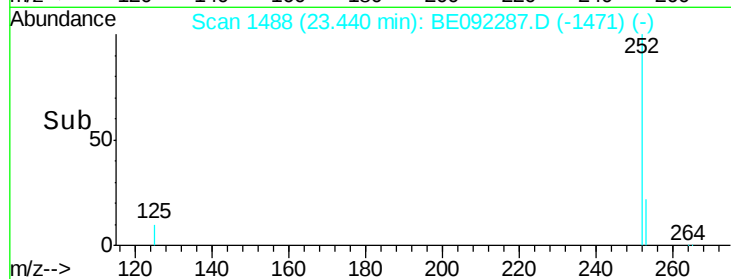
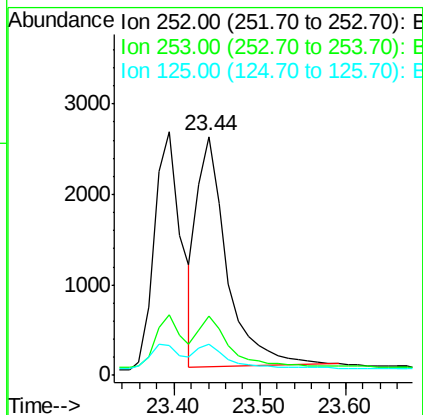
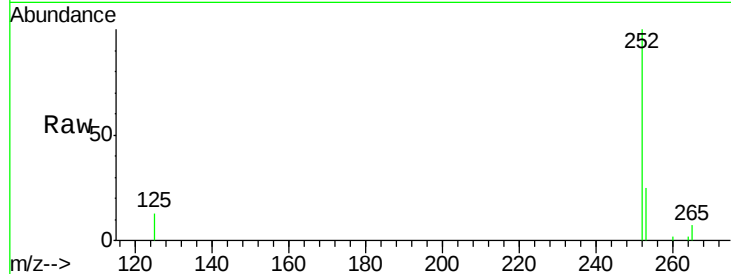
#33
Benzo(k)fluoranthene
Concen: 0.38 ng
RT: 23.44 min Scan# 1488
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.0	28.6
125	12.9	10.6	15.8

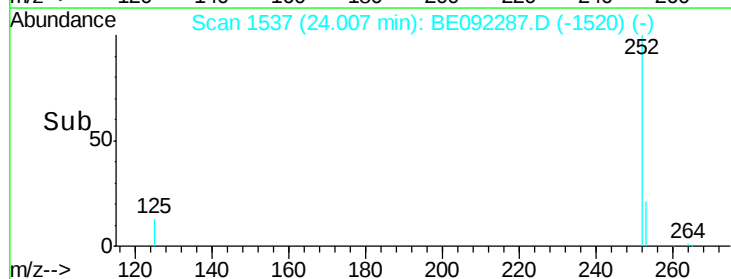
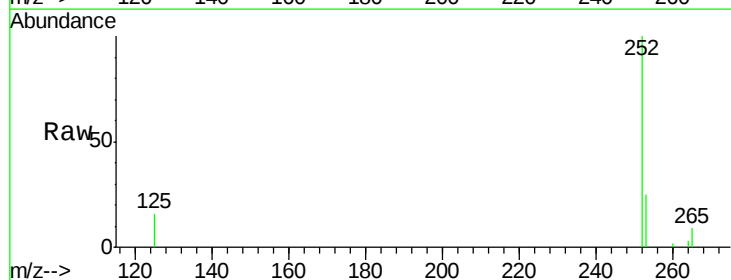
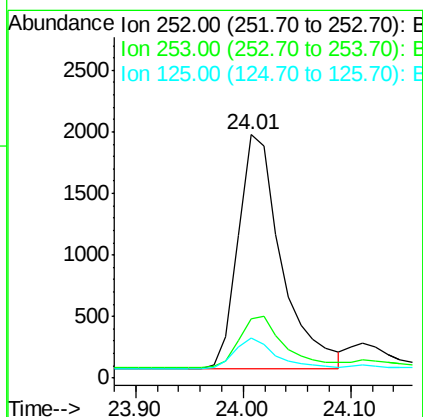
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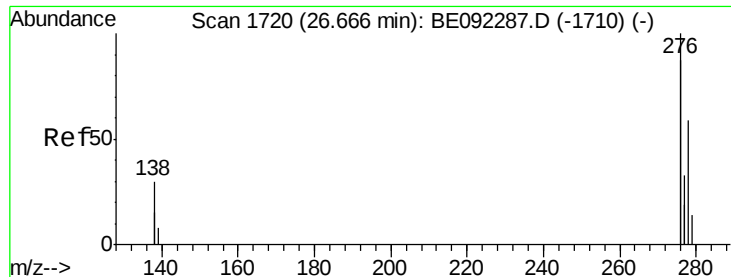
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#34
Benzo(a)pyrene
Concen: 0.36 ng
RT: 24.01 min Scan# 1537
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	20.3	30.5
125	16.4	11.8	17.6





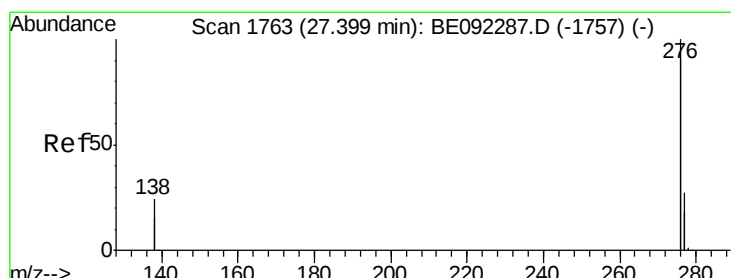
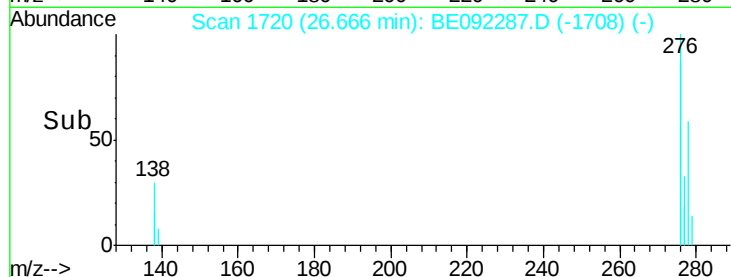
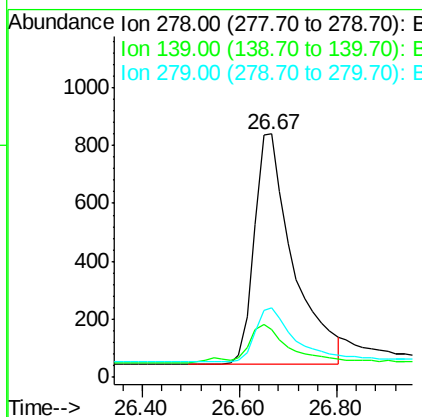
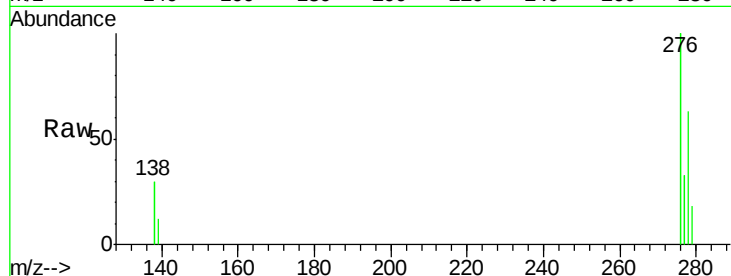
#35
Dibenzo(a,h)anthracene
Concen: 0.32 ng
RT: 26.67 min Scan# 1720
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.4	16.2	24.2
279	28.7	21.4	32.2

Manual Integrations
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#36
Benzo(g,h,i)perylene
Concen: 0.35 ng
RT: 27.40 min Scan# 1763
Delta R.T. 0.00 min
Lab File: BE092287.D
Acq: 29 Aug 2016 13:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.6	21.4	32.2
138	23.6	19.4	29.2

