

Anne Arundel County Police Crime Laboratory
ASCLD/LAB® Accredited Since 2001
Forensic Biology Report

Offense Description: DOA
Lab Case Number: AA0122-15
Complaint Number: 12-716431
Analyst: Emilie Dembia
Offense Date: May 06, 2012
Report 1

Report Date: May 27, 2015
Case Officer: Sgt. Poole #1442
Attention: ECU Evidence Coordinator
Agency: Evidence Collection Unit
Case Names: Katherine Morris (Victim)
Margarite Morris (Owner)

Polymerase chain reaction (PCR) testing using the PowerPlex Fusion System was performed using DNA extracts from the following item(s). Any alleles detected are listed in the included table(s) along with the short tandem repeat (STR) loci tested.

Item #	Description
CS-01	Sealed paper bag containing: Lighter
CS-04	Sealed small manila envelope containing: Bottle of sleep aid medicine
CS-05	Sealed paper bag containing: Packaging for 2 disposable charcoal grills
CS-06	Sealed paper bag containing: Disposable charcoal grills (2 - tested separately)
VV-01	Sealed swab box containing: Swab from int. driver door
VV-02	Sealed swab box containing: Swab from int. front passenger door
VV-03	Sealed swab box containing: Swab from int. rear driver door
VV-04	Sealed swab box containing: Swab from int. rear passenger door
VV-05	Sealed swab box containing: Swab from steering wheel
V-01	Sealed small manila envelope containing: Known standard blood card (Katherine Morris)

The following item(s) were not examined at this time:

Item #	Description
VV-06	Sealed swab box containing: Control swab(s)
V-02	Sealed small manila envelope containing: Head Hair Standard
V-03	Sealed small manila envelope containing: Fingernail clippings, right hand
V-04	Sealed small manila envelope containing: Fingernail clippings, left hand
V-05	Sealed small manila envelope containing: Oral swab(s)
V-06	Sealed small manila envelope containing: Fingerprint and palm print cards
V-12	Sealed manila envelope containing: Right hand bag
V-13	Sealed manila envelope containing: Left hand bag
V-14	Sealed small manila envelope containing: Contact lenses
V-16	Sealed small manila envelope containing: Right hand swab(s)
V-17	Sealed small manila envelope containing: Left hand swab(s)

Offense Description: DOA
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DNA Conclusions:

Item CS-01 (Lighter):

A mixture of DNA from at least two individuals was obtained from this item. This is a partial mixture (16 out of 22 loci), which may be due to degradation or an insufficient amount of recoverable DNA. Katherine Morris cannot be excluded as a possible contributor to this mixture.

A major component can be determined at 7 out of 16 loci. Using Recommendation 4.1 from the 1996 National Research Council report¹, the frequency in the combined population^{2,3,4} of this major component and the known DNA profile of Katherine Morris is approximately 1 in 290 billion unrelated individuals.

Item CS-04 (Bottle of sleep aid medicine):

Three alleles were obtained from this item, which may be due to degradation or an insufficient amount of recoverable DNA. Given the limited number of alleles, no conclusions can be made regarding this item.

Item CS-05 (Packaging for 2 disposable charcoal grills):

One allele was obtained from this item, which may be due to degradation or an insufficient amount of recoverable DNA. Given the limited number of alleles, no conclusions can be made regarding this item.

Item CS-06 (Disposable charcoal grills):

Grill A:

A partial DNA profile (19 out of 22 loci) was obtained from this grill, which may be due to degradation or an insufficient amount of recoverable DNA. This partial profile is consistent with the known DNA profile of Katherine Morris.

Using Recommendation 4.1 from the 1996 National Research Council report¹, the frequency in the combined population^{2,3,5} of this partial profile and the known DNA profile of Katherine Morris is approximately 1 in 8.9 quintillion unrelated individuals.

Grill B:

No DNA profile was obtained from this grill. This may be due to degradation or an insufficient amount of recoverable DNA. As a result, no conclusions can be made regarding this item.

Item VV-01 (Swab from int. driver door):

A partial DNA profile (4 out of 22 loci) was obtained from this item, which may be due to degradation or an insufficient amount of recoverable DNA. Given the limited nature of this profile, no conclusions can be made regarding this item.

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Item VV-02 (Swab from int. front passenger door):

A mixture of DNA from at least two individuals was obtained from this item. This is a partial mixture (3 out of 22 loci), which may be due to degradation or an insufficient amount of recoverable DNA. Given the limited nature of this mixture, no conclusions can be made regarding this item.

Item VV-03 (Swab from int. rear driver door):

One allele was obtained from this item, which may be due to degradation or an insufficient amount of recoverable DNA. Given the limited number of alleles, no conclusions can be made regarding this item.

Item VV-04 (Swab from int. rear passenger door):

No DNA profile was obtained from this item. This may be due to degradation or an insufficient amount of recoverable DNA. As a result, no conclusions can be made regarding this item.

Item VV-05 (Swab from steering wheel):

Four alleles were obtained from this item, which may be due to degradation or an insufficient amount of recoverable DNA. Given the limited number of alleles, no conclusions can be made regarding this item.

I certify this report is an accurate record of the results of the above examination(s) conducted by me as an employee of, and in a laboratory operated by, the Anne Arundel County Police Department.

The evidence is being retained in the Forensic Biology Unit pending retrieval by the Evidence Collection Unit or will be transferred to Property Management. If you have any questions, call 410-222-8534 (Forensic Biology Unit).



Emilie Dembia, M.S.
Forensic Chemist II - Biology

¹ The National Research Council on DNA Forensic Science. (1996). The Evaluation of Forensic DNA Evidence. National Academy Press, Washington, D.C. p.122. Frequency calculations using the referenced database follow Recommendation 4.1 of the 1996 National Research Council report referenced above.

² Hill, C.R., et al. (2013). "U.S. population data for 29 autosomal STR loci." Forensic Sci. Int. Genet. 7:e82-e83.

³ The Combined Population Group includes Caucasian, African-American, Hispanic, and Asian population groups.

⁴ For stochastic reasons, the genetic frequencies of the following loci were not included in statistical calculations: D3S1358, D18S51, Penta D, vWA, D7S820, TPOX, D8S1179, D12S391, D19S433.

⁵ For stochastic reasons, the genetic frequencies of the following loci were not included in statistical calculations: D2S441, D13S317, Penta E, CSF1PO, Penta D, D5S818, FGA, D22S1045.



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ALLELES DETECTED – POWERPLEX^R FUSION

Locus	CS-01 Lighter	CS-04 Bottle of sleep aid medicine	CS-05 Packaging for charcoal grills	CS-06 Disposable charcoal grills: grill A	V-01 Katherine Morris
Amelogenin	X,X	---	---	X,X	X,X
D3S1358	12,16,17	17	---	12,17	12,17
D1S1656	13,15	---	---	13,15	13,15
D2S441	14	---	---	14	14
D10S1248	---	---	---	---	12,15
D13S317	---	---	---	12	12
Penta E	---	---	---	7	7,14
D16S539	9,10,13	---	---	9,13	9,13
D18S51	20	---	---	20,22	20,22
D2S1338	21,24	---	---	21,24	21,24
CSF1PO	8	---	---	8	8
Penta D	2,2	---	---	2,2	2,2,10
TH01	6,9	8	---	6,9	6,9
vWA	15	---	---	15,18	15,18
D21S11	28,30	---	---	28,30	28,30
D7S820	8,11	---	---	---	8,11
D5S818	---	---	---	8	8,12
TPOX	8,11	---	---	---	8,11
DYS391	---	---	---	---	---
D8S1179	12,14	15	10	12,14	12,14
D12S391	17,19	---	---	17,19	17,19
D19S433	11,14	---	---	11,14	11,14
FGA	---	---	---	22	22,24
D22S1045	---	---	---	10	10,17

Statements: --- = No alleles detected at this locus.
 The results listed in the table above may not depict intensity differences.

ECU MA

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ALLELES DETECTED – POWERPLEX^R FUSION

Locus	VV-01 Swab from int. driver door	VV-02 Swab from int. front passenger door	VV-03 Swab from int. rear driver door	VV-05 Swab from steering wheel
Amelogenin	---	X	---	X
D3S1358	12	---	---	17
D1S1656	---	---	---	---
D2S441	---	---	---	---
D10S1248	---	---	---	---
D13S317	---	---	---	---
Penta E	---	---	---	---
D16S539	9,13	9,11,12	9	---
D18S51	---	---	---	---
D2S1338	---	---	---	---
CSF1PO	---	---	---	---
Penta D	---	---	---	---
TH01	6,9	6,9	---	6,9
vWA	---	---	---	---
D21S11	---	---	---	---
D7S820	---	---	---	---
D5S818	---	---	---	---
TPOX	---	---	---	---
DYS391	---	---	---	---
D8S1179	12,14	12,13,14	---	12
D12S391	---	---	---	---
D19S433	---	---	---	---
FGA	---	---	---	---
D22S1045	---	---	---	---

Statements: --- = No alleles detected at this locus.
 The results listed in the table above may not depict intensity differences.

ECS MDA

SCB c:

Item V-01 - sld small manila env c:

a known standard blood card from Katherine Morris.

Sampled $\approx 0.5\text{cm} \times 1.5\text{cm}$ cutting for DNA testing.

Item V-02 - sld small manila env c:

head hair standard.

Item V-03 - sld small manila env c:

finger nail clippings, right hand.

Item V-04 - sld small manila env c:

finger nail clippings, left hand.

Item V-05 - sld small manila env c:

oral swab(s).

Item V-06 - sld small manila env c:

fingerprint and palm print card(s).

Not examined at this time.

Item V-12 - sld manila env c:

Right hand bag

Item V-13 - sld manila env c:

Left hand bag

~~V-14~~ ECD

Item V-14 - sld small manila env c:

contact lenses

Item V-16 - sld small manila env c:

Right hand swab(s).

Item V-17 - sld small manila env c:

Left hand swab(s)

SME \bar{c} :

Item VV-01 - sld swab box \bar{c} :

^{ecb} one grey swab from int. driver door
Sampled $\approx 50\%$ of swab for DNA testing.

Item VV-02 - sld swab box \bar{c} :

one dark grey swab from int. front passenger door
Sampled $\approx 50\%$ of swab for DNA testing.

Item VV-03 - sld swab box \bar{c} :

one grey swab from int. rear driver door
Sampled $\approx 50\%$ of swab for DNA testing.

Item VV-04 - sld swab box \bar{c} :

one grey swab from int. rear passenger door
Sampled $\approx 50\%$ of swab for DNA testing.

Item VV-05 - sld swab box \bar{c} :

one grey swab from steering wheel
Sampled ^{ecb} ~~entire~~ swab for DNA testing.
 $\approx 50\%$ of

Item VV-06 - sld swab box \bar{c} :

control swab(s). Not examined at this time.

SME ē:

Item CS-01 - sld paper bag ē:

a lighter with black/red handle from front passenger seat.

Swabbed handle, trigger, and switches.

Sampled entire swab for DNA testing.

Item CS-04 - sld small manila env ē:

a bottle of CVS Nighttime Sleep Aid, maximum strength, softgels.

can hear pills inside bottle.

Swabbed sides and safety screw cap of bottle.

Sampled entire swab for DNA testing.

SCB ē:

Item CS-05 - sld paper bag ē:

packaging for two Disposable Charcoal "Ready to Use" grills: box, paper insert, plastic outer wrapping (x 2)

Swabbed outside of both boxes using 1 swab.

Sampled entire swab for DNA testing.

Item CS-06 - sld paper bag ē:

two disposable charcoal grills. Used, full of burnt charcoal and ash.

Swabbed outside of each grill separately.

Sampled each swab for DNA testing.

(CS-06 A and CS-06 B)

CASEFILE REVIEW (Administrative/Technical)

Case #: AA0122 - 15 Report/Submission #: 1 Analyst: ECD

MUS Chain of Custody & Submission Form

- * chain of custody present
- * date of offense, offense, police case #, names
- * verify all item(s) on report

MUS Forensic Biology Examination Notes

- * description of packaging & all items
- * lot numbers for all serology reagents, if applicable
- * description of any stains & any tests performed
- * documentation of sampling for DNA testing

MUS DNA Extraction/Concentration Worksheet(s)

- * extraction method is appropriate
- * lot numbers
- * sample names & reagent blank(s) are consistent

MUS Quantitation Worksheets

- * lot numbers
- * slope & Y-intercepts consistent
- * sample names & reagent blank(s) are consistent

MUS DNA Amplification Worksheet(s)

- * lot numbers
- * sample names & reagent blank(s) are consistent
- * dilution(s) noted, if applicable
- * calculations for target amount are correct
- * reagent blank(s) volume \geq corresponding samples

MUS Run Information Sheet(s)

- * lot numbers
- * any reinjections, reamplifications, etc. noted

MUS 3500 Plate Set-Up Worksheet(s)

- * sample names & reagent blank(s) are consistent

MUS 3500 Plate Grid Report(s)

- * sample names & reagent blank(s) are consistent
- * reagent blank & neg control injection time \geq corresponding samples

MUS Genemapper® ID/ID-X Project Sheet(s)

- * all samples, reagent blank(s), & controls included

MUS Genemapper® ID/ID-X Electropherograms

- * ladder(s), ILS check(s), specimen(s), rgt blank(s), pos amp control(s) neg amp control(s)
- * manual exclusion(s) consistent with lab guidelines

MUS Alleles Detected Worksheet(s)

- * allele designations consistent
- * symbols & abbreviations clearly defined

MUS Statistical Calculations

- * appropriate calculation(s) used
- * appropriate loci used in calculations
- * values properly transcribed to report

MUS Formal Report

- * pages free of misspellings & typographical errors
- * conclusion for each DNA item
- * all applicable stats with associated footnotes

MUS Page Labeling

- * case number, page number, initials/signature, date

I concur with the conclusions of the Analyst as stated in the Formal Report for this submission.

Ashley Hayes
Reviewer

6/3/15
Date

See CAR 15-001 regarding Formamide lot/expiration.

ECD

DNA Extraction/Concentration (EZ1[®] Advanced XL)

Analyst: ECD

Instrument: Jade

Ruby

Date: 5-13-15

#	case/item number
1	AA0101-15 V-001
2	AA0103-15 001 B
3	AA0103-15 002 B
4	AA0122-15 CS-01
5	AA0122-15 CS-04
6	AA0122-15 CS-05
7	AA0122-15 CS-06 A
8	AA0122-15 CS-06 B
9	AA0122-15 VV-01
10	AA0122-15 VV-02
11	AA0122-15 VV-03
12	AA0122-15 VV-04
13	AA0122-15 VV-05
14	RBQ B 051315

Reagent	Volume	Lot #
EZ1 DNA Investigator Kit	N/A	15-9
sterile H ₂ O	145	123673
Buffer G2	145	15-9
Pro K	10	15-9
DTT (if applicable)	N/A	N/A
TNE (if applicable)	N/A	N/A
elution volume (of H ₂ O)	40	N/A

Notes:

DNA Extraction/Concentration (EZI Advanced XL)
 Issued by: Crime Laboratory
 Issue Date: September 1, 2013

Document CL300-007
 Ver 1.1
 Page 1 of 1

DNA Extraction/Concentration (EZ1[®] Advanced XL)

Analyst: ECD

Instrument: Jade

Ruby

Date: 5-13-15

#	case/item number
1	AA0101-15 V-002
2	AA0105-15 S1-001
3	AA0105-15 S2-001
4	AA0106-15 V-001
5	AA0122-15 V-01
6	RBK 051315
7	
8	
9	
10	
11	
12	
13	
14	

Reagent	Volume	Lot #
EZ1 DNA Investigator Kit	N/A	15-9
sterile H ₂ O	95	123673
Buffer G2	95	15-9
Pro K	10	15-9
DTT (if applicable)	N/A	N/A
TNE (if applicable)	N/A	N/A
elution volume (of H ₂ O)	200	N/A

Notes:

DNA Extraction/Concentration (EZI Advanced XL)
 Issued by: Crime Laboratory
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Document CL300-007
 Ver 1.1
 Page 1 of 1

ECD

Date 5-13-15

Analyst ECD

Quantifiler Worksheet

Kit Lot # O12

Date Standards Diluted 051315ECD

Primer mix (5.5 ul per sample + few extra): 297

PCR reaction mix (6.5 ul per sample + few extra): 351

12 ul of master mix in each
1 ul of each standard/sample

	1	2	3	4	5	6	7	8	9	10	11	12
A	Std A 51.65 ng/ul	Std A 51.65 ng/ul	AA0083-15 3W	AA0105-15 1A T	AA0103-15 002 B	AA0122-15 VV-03	AA0122-15 V-01					
B	Std B 17.06 ng/ul	Std B 17.06 ng/ul	AA0083-15 3C	AA0105-15 1A H	AA0122-15 CS-01	AA0122-15 VV-04	RBK 051315					
C	Std C 5.38 ng/ul	Std C 5.38 ng/ul	AA0083-15 4A	AA0105-15 1A Butt	AA0122-15 CS-04	AA0122-15 VV-05						
D	Std D 1.82 ng/ul	Std D 1.82 ng/ul	AA0083-15 4B	AA0105-15 1A Barrel	AA0122-15 CS-05	RBQ B 051315						
E	Std E 0.592 ng/ul	Std E 0.592 ng/ul	AA0083-15 6A	AA0105-15 1A R	AA0122-15 CS-06 A	AA0101-15 V-002						
F	Std F 0.218 ng/ul	Std F 0.218 ng/ul	AA0083-15 6W	RBQ A 051315	AA0122-15 CS-06 B	AA0105-15 SI-001						
G	Std G 0.071 ng/ul	Std G 0.071 ng/ul	AA0083-15 7.01	AA0101-15 V-001	AA0122-15 VV-01	AA0105-15 S2-001						
H	Std H 0.015 ng/ul	Std H 0.015 ng/ul	AA0105-15 1A G	AA0103-15 001 B	AA0122-15 VV-02	AA0106-15 V-001						

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File: ECD 051315
Print Date: Wednesday, May 13, 2015 16:52:31
User: 7500 User
Plate Type: Absolute Quantification
PCR Volume: 25 µL

Operator: ECD
Run Date: Wednesday, May 13, 2015 15:19:03
Last Modified: Wednesday, May 13, 2015 16:52:25
Instrument Type: Applied Biosystems 7500 Real-Time PCR System

Comments:
SDS v1.2

Step	Temperature	Time	Repeat	Repeat Rate	Acquisition Mode
1	95.0 °C	10:00	1		Auto
2	95.0 °C	0:15	40		Auto
	60.0 °C	1:00			Auto

9600 Mode Emulation
Data Collection : Stage 2, Step 2

Delta Rn

Human Quant	FAM	(none)	0.200000	3	15
IPC	VIC	(none)	0.200000	3	15

Multi Sample Matrix

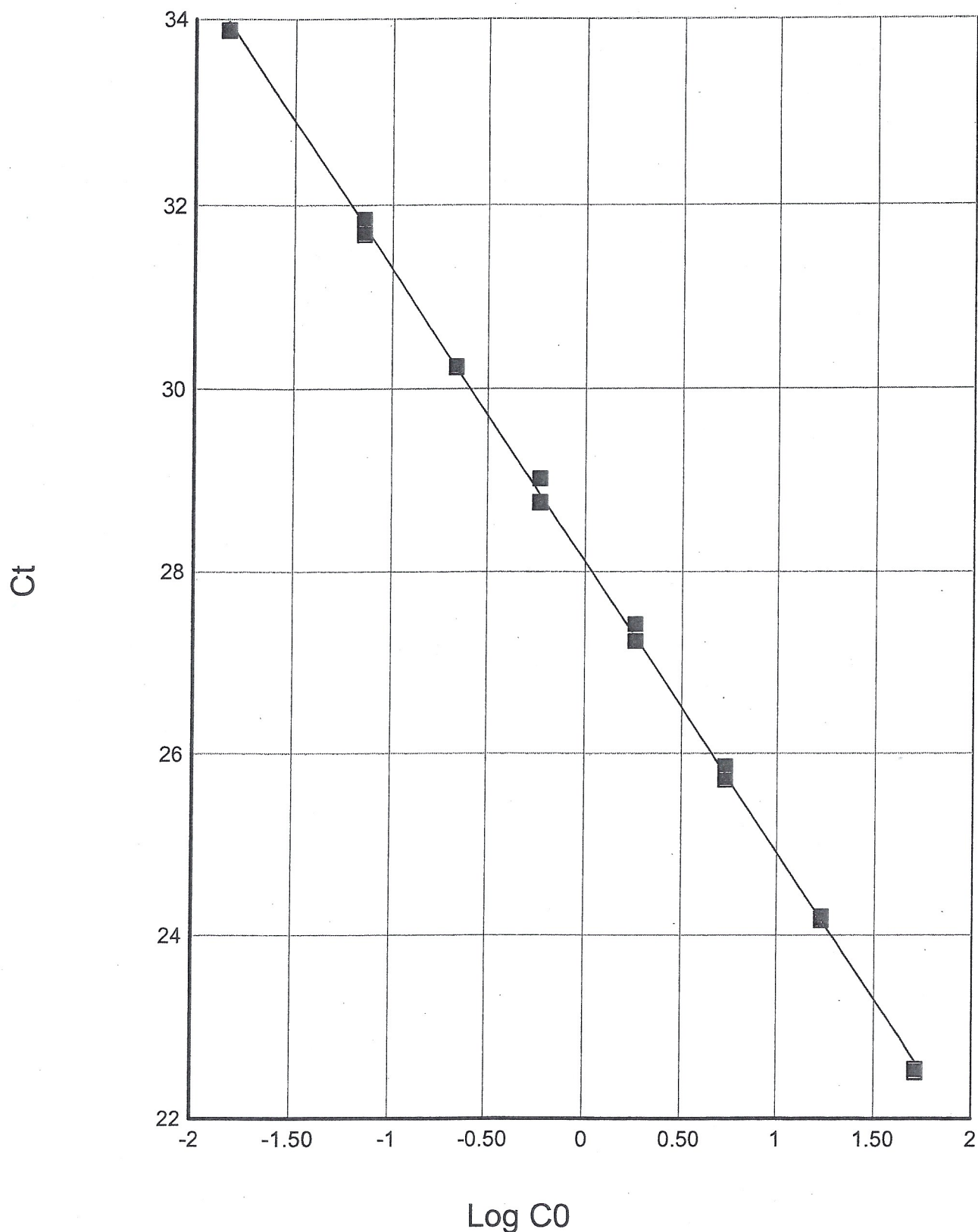
Sample Name	Method	Mask	Q1	Standard Q1	Q15	Mean Q1	Stddev Q1	Filtered	Sum
A1	51.65ng	Human Quant	Standard	22.51	0.024	51.65			
		IPC	Unknown	28.26	0.298				
A2	51.65ng	Human Quant	Standard	22.55	0.024	51.65			
		IPC	Unknown	27.84	0.298				
A3	AA0083-15 3W	Human Quant	Unknown	Under					
		IPC	Unknown	27.23					
A4	AA0105-15 1A/T	Human Quant	Unknown	32.52		4.19e-002			
		IPC	Unknown	27.26					
A5	AA0103-15 002 B	Human Quant	Unknown	32.21		5.24e-002			
		IPC	Unknown	27.35					
A6	AA0122-15 VV-03	Human Quant	Unknown	35.84		3.85e-003			
		IPC	Unknown	27.42					
A7	AA0122-15 VV-01	Human Quant	Unknown	27.39		1.67			
		IPC	Unknown	27.11					
B1	17.06ng	Human Quant	Standard	24.17	0.032	17.06			
		IPC	Unknown	27.02	0.039				
B2	17.06ng	Human Quant	Standard	24.21	0.032	17.06			
		IPC	Unknown	26.98	0.039				
B3	AA0083-15 3C	Human Quant	Unknown	35.51		4.89e-003			
		IPC	Unknown	27.07					
B4	AA0105-15 1A/3H	Human Quant	Unknown	33.12		2.17e-002			
		IPC	Unknown	27.17					
B5	AA0122-15 GS-01	Human Quant	Unknown	33.06		2.84e-002			
		IPC	Unknown	27.26					
B6	AA0122-15 VV-04	Human Quant	Unknown	35.15		6.32e-003			
		IPC	Unknown	27.26					
B7	RBK 051315	Human Quant	Unknown	Under					
		IPC	Unknown	27.17					
C1	5.38ng	Human Quant	Standard	25.72	0.099	5.38			
		IPC	Unknown	26.85	0.022				
C2	5.38ng	Human Quant	Standard	25.86	0.099	5.38			
		IPC	Unknown	26.88	0.022				
C3	AA0083-15 4A	Human Quant	Unknown	Under					
		IPC	Unknown	27.15					

C4	AA0105-15 IA Butt	Human Quant	Unknown	31.48		8.86e-002
		IPC	Unknown	27.19		
G5	AA0122-15 CS-04	Human Quant	Unknown	36.13		3.13e-003
		IPC	Unknown	27.17		
G6	AA0122-15 VV-05	Human Quant	Unknown	34.73		8.59e-003
		IPC	Unknown	27.27		
D1	1.82ng	Human Quant	Standard	27.23	0.135	1.82
		IPC	Unknown	26.86	0.034	
D2	1.82ng	Human Quant	Standard	27.42	0.135	1.82
		IPC	Unknown	26.91	0.034	
D3	AA0083-15 4B	Human Quant	Unknown	Under		
		IPC	Unknown	27.11		
D4	AA0105-15 IA Barrel	Human Quant	Unknown	31.72		7.45e-002
		IPC	Unknown	27.14		
D5	AA0122-15 CS-05	Human Quant	Unknown	Under		
		IPC	Unknown	27.24		
D6	RBQ B 051315	Human Quant	Unknown	Under		
		IPC	Unknown	27.22		
E1	0.592ng	Human Quant	Standard	28.75	0.182	5.92e-001
		IPC	Unknown	27.06	0.036	
E2	0.592ng	Human Quant	Standard	29.01	0.182	5.92e-001
		IPC	Unknown	27.01	0.036	
E3	AA0083-15 6A	Human Quant	Unknown	Under		
		IPC	Unknown	27.10		
E4	AA0105-15 IA R	Human Quant	Unknown	33.30		2.40e-002
		IPC	Unknown	27.16		
E5	AA0122-15 CS-06 A	Human Quant	Unknown	34.51		1.00e-002
		IPC	Unknown	27.19		
E6	AA0101-15 V-002	Human Quant	Unknown	26.14		4.11
		IPC	Unknown	27.10		
F1	0.218ng	Human Quant	Standard	30.24	0.009	2.18e-001
		IPC	Unknown	27.10	0.033	
F2	0.218ng	Human Quant	Standard	30.25	0.009	2.18e-001
		IPC	Unknown	27.05	0.033	
F3	AA0083-15 6W	Human Quant	Unknown	36.56		2.30e-003
		IPC	Unknown	27.14		
F4	RBQ A 051315	Human Quant	Unknown	Under		
		IPC	Unknown	27.13		
F5	AA0122-15 CS-06 B	Human Quant	Unknown	Under		
		IPC	Unknown	27.17		

F6	AA0105-15 S1-001	Human Quant IPC	Unknown Unknown	30.06 27.24		2.46e-001
G1	0.074 mg	Human Quant IPC	Standard Unknown	34.69 27.07	0.1110 0.006	7.10e-002
G2	0.074 mg	Human Quant IPC	Standard Unknown	31.85 27.08	0.1110 0.006	7.10e-002
G3	AA0083-15 7.01	Human Quant IPC	Unknown Unknown	Undet. 27.11		
G4	AA0101-15 V-001	Human Quant IPC	Unknown Unknown	28.43 27.08		7.96e-001
G5	AA0122-15 V-V-01	Human Quant IPC	Unknown Unknown	35.56 27.28		4.72e-003
G6	AA0105-15 S2-001	Human Quant IPC	Unknown Unknown	31.19 27.25		1.16e-001
H1	0.0147ng	Human Quant IPC	Standard Unknown	33.88 27.18		1.47e-002
H3	AA0105-15 1A G	Human Quant IPC	Unknown Unknown	29.43 27.11		3.86e-001
H4	AA0103-15 001 B	Human Quant IPC	Unknown Unknown	30.45 27.19		1.86e-001
H5	AA0122-15 VV-02	Human Quant IPC	Unknown Unknown	34.14 27.55		1.34e-002
H6	AA0106-15 V-001	Human Quant IPC	Unknown Unknown	29.55 27.23		3.55e-001

103

Standard Curve



Detector: Human Quant, Slope: -3.202815, Intercept: 28.108833, R2: 0.999330

DNA Amplification - PowerPlex Fusion

Analyst: ECD

Date: 5-13-15

Sample	DNA ext. (ng/ul)	target (ng)	amp mix per rxn	sample vol. (neat)	sample vol. (diluted)	H ₂ O vol. (qs to 25ul)	well
1. AA0083-15 3W	undet.	1	10	15.0	15.0	0	1A
2. AA0083-15 3C	0.00489	1	10	15.000	15.0	0	1B
3. AA0083-15 4A	undet.	1	10	15.0	15.0	0	1C
4. AA0083-15 4B	undet.	1	10	15.0	15.0	0	1D
5. AA0083-15 6A	undet.	1	10	15.0	15.0	0	1E
6. AA0083-15 6W	0.0023	1	10	15.000	15.0	0	1F
7. AA0083-15 7.01	undet.	1	10	15.0	15.0	0	1G
8. AA0105-15 1A G	0.386	1	10	2.591	2.6	12.4	1H
9. AA0105-15 1A T	0.0419	1	10	15.000	15.0	0	2A
10. AA0105-15 1A H	0.0272	1	10	15.000	15.0	0	2B
11. AA0105-15 1A Butt	0.0886	1	10	11.287	15.0	0	2C
12. AA0105-15 1A Barrel	0.0745	1	10	13.423	15.0	0	2D
13. AA0105-15 1A R	0.024	1	10	15.000	15.0	0	2E
14. RBQ A 051315	undet.	1	10	15.0	15.0	0	2F
15. AA0101-15 V-001	0.796	1	10	1.256	1.3	13.7	2G
16. AA0103-15 001 B	0.186	1	10	5.376	5.4	9.6	2H
17. AA0103-15 002 B	0.0524	1	10	15.000	15.0	0	3A
18. AA0122-15 CS-01	0.0284	1	10	15.000	15.0	0	3B
19. AA0122-15 CS-04	0.00313	1	10	15.000	15.0	0	3C
20. AA0122-15 CS-05	undet.	1	10	15.0	15.0	0	3D
21. AA0122-15 CS-06 A	0.01	1	10	15.000	15.0	0	3E
22. AA0122-15 CS-06 B	undet.	1	10	15.0	15.0	0	3F
23. AA0122-15 VV-01	0.00472	1	10	15.000	15.0	0	3G
24. AA0122-15 VV-02	0.0134	1	10	15.000	15.0	0	3H
25. AA0122-15 VV-03	0.00385	1	10	15.000	15.0	0	4A
26. AA0122-15 VV-04	0.00632	1	10	15.000	15.0	0	4B
27. AA0122-15 VV-05	0.00859	1	10	15.000	15.0	0	4C
28. RBQ B 051315	undet.	1	10	15.0	15.0	0	4D
29. AA0101-15 V-002	4.11	1	10	0.243	2.4 (1:10)	12.6	4E
30. AA0105-15 S1-001	0.246	1	10	4.065	4.1	10.9	4F
31. AA0105-15 S2-001	0.116	1	10	8.621	8.6	6.4	4G
32. AA0106-15 V-001	0.355	1	10	2.817	2.8	12.2	4H

DNA Amplification - PowerPlex Fusion

33. AA0122-15 V-01	1.67	1	10	0.599	6.0 (1:10)	9.0	5A
34. RBK 051315	undet.	1	10	15.0	8.6	6.4	5B
35. Amp Pos 051315	0.235	1	10	4.255	3.5	11.5	5C
36. Amp Neg 051315	n/a	1	10	0	0	15	5D

<i>reagent:</i>	<i>lot:</i>	<i>amp mix recipe:</i>	<i>mix vol. (ul):</i>
PowerPlex Fusion kit	F1	Master mix: 5.0ul x (samples + few)	200
Control 2800M dilution	040915SAC	Primer pairs: 5.0ul x (samples + few)	200
Amplification grade H ₂ O	F1		

Thermal cycler used:

Tiffany

Jared

ECD

3500 Run Information Worksheet

Run date: 5-14-15

Analyst: ECD

Formamide lot: 14030408^{ECD}

ILS & ladder kit lot: F1
(note if different kits or a dilution was used)

Additional notes:

CS-01 > allelic dropout, will reinject at 15s.
CS-06 A

3500 Set-Up Worksheet

Date 5-14-15 Analyst ECD

Hi-Di Formamide (10 ul per sample + few extra): 400
 ILS 500 (1 ul per sample + few extra): 40
 11 ul of master mix + 1 ul of each sample in each well

	1	2	3	4	5	6	7	8	9	10	11	12
A	AA0083-15 3W	AA0105-15 1A T	AA0103-15 002 B	AA0122-15 VV-03	AA0122-15 V-01							
B	AA0083-15 3C	AA0105-15 1A H	AA0122-15 CS-01	AA0122-15 VV-04	RBK 051315							
C	AA0083-15 4A	AA0105-15 1A Butt	AA0122-15 CS-04	AA0122-15 VV-05	Amp Pos 051315							
D	AA0083-15 4B	AA0105-15 1A Barrel	AA0122-15 CS-05	RBQ B 051315	Amp Neg 051315							
E	AA0083-15 6A	AA0105-15 1A R	AA0122-15 CS-06 A	AA0101-15 V-002	Ladder							
F	AA0083-15 6W	RBQ A 051315	AA0122-15 CS-06 B	AA0105-15 S1-001								
G	AA0083-15 7.01	AA0101-15 V-001	AA0122-15 VV-01	AA0105-15 S2-001								
H	AA0105-15 1A G	AA0103-15 001 B	AA0122-15 VV-02	AA0106-15 V-001								

Notes:

AA0122-15 p. 15

Plate Grid Report

Plate Details

Plate Name: ECD 051415
Number of Wells: 96
Plate Type: HID
Polymer: POP4

Report Created on: 14-May-2015 09:57:29 AM
3500 Series Data Collection Software 2
Owner:
Barcode:
Capillary Length: 36

	1	2	3	4	5	6	7	8	9	10	11
A	H AA0083-15-3W	H AA0105-15-1A1T	H AA0103-15-002B	H AA0122-15-VW-08	H AA0122-15-V-01						
B	H AA0083-15-3C	H AA0105-15-1A1H	H AA0122-15-CS-01	H AA0122-15-VW-04	H RBR 051315						
C	H AA0083-15-4A	H AA0105-15-1A1Burr	H AA0122-15-CS-04	H AA0122-15-VW-05	H Amp Pos-051315						
D	H AA0083-15-4B	H AA0105-15-1A1Barrel	H AA0122-15-CS-05	H RBR 051315	H Amp Neg-051315						
E	H AA0083-15-6A	H AA0105-15-1A1R	H AA0122-15-CS-06A	H AA0101-15-V-002	Ladder						
F	H AA0083-15-6W	H RBR 051315	H AA0122-15-CS-06B	H AA0105-15-SF-001							
G	H AA0083-15-701	H AA0101-15-V-001	H AA0122-15-VW-01	H AA0105-15-SR-001							
H	H AA0105-15-1A1G	H AA0103-15-001B	H AA0122-15-VW-02	H AA0106-15-V-001							

Legend

■ Plate : HID
■ Assay : PPFusion_5s

1003

	Status	Sample Name	Sample Type	Analysis Method	Panel	Size Standard	SG
1		AA0083-15 3C	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
2		AA0083-15 3W	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
3		AA0083-15 4A	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
4		AA0083-15 4B	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
5		AA0083-15 6A	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
6		AA0083-15 6W	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
7		AA0083-15 7.01	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
8		AA0101-15 V-001	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
9		AA0101-15 V-002	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
10		AA0103-15 001 B	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
11		AA0103-15 002 B	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
12		AA0105-15 1A Barrel	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
13		AA0105-15 1A Butt	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
14		AA0105-15 1A G	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
15		AA0105-15 1A H	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
16		AA0105-15 1A R	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
17		AA0105-15 1A T	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
18		AA0105-15 S1-001	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
19		AA0105-15 S2-001	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
20		AA0106-15 V-001	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
21		AA0122-15 CS-01	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
22		AA0122-15 CS-04	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
23		AA0122-15 CS-05	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
24		AA0122-15 CS-06 A	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
25		AA0122-15 CS-06 B	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
26		AA0122-15 V-01	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
27		AA0122-15 VV-01	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
28		AA0122-15 VV-02	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
29		AA0122-15 VV-03	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
30		AA0122-15 VV-04	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
31		AA0122-15 VV-05	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
32		Amp Neg 051315	Sample	Fusion 5s 70rtu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■

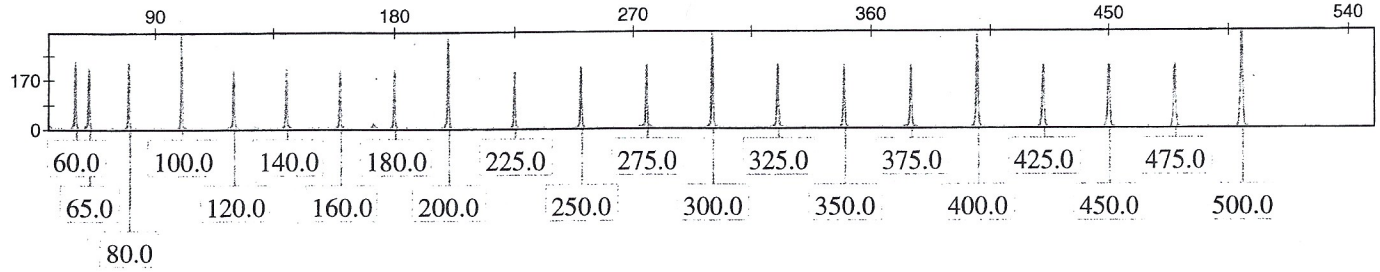
AA0122-15 p. 17

Status	Sample Name	Sample Type	Analysis Method	Panel	Size Standard	SQ
33	Amp Pos 051315	Positive Control	Fusion 5s 70rfu	PowerPlex_Fusion_Panels_IDX_v1.0_AA_stutter	ILS 500 Fusion	■
34	Ladder	Allelic Ladder	Fusion 5s 70rfu	PowerPlex_Fusion_Panels_IDX_v1.0_AA_stutter	ILS 500 Fusion	■
35	RBK 051315	Sample	Fusion 5s 70rfu	PowerPlex_Fusion_Panels_IDX_v1.0_AA_stutter	ILS 500 Fusion	■
36	RBQ A 051315	Sample	Fusion 5s 70rfu	PowerPlex_Fusion_Panels_IDX_v1.0_AA_stutter	ILS 500 Fusion	■
37	RBQ B 051315	Sample	Fusion 5s 70rfu	PowerPlex_Fusion_Panels_IDX_v1.0_AA_stutter	ILS 500 Fusion	■

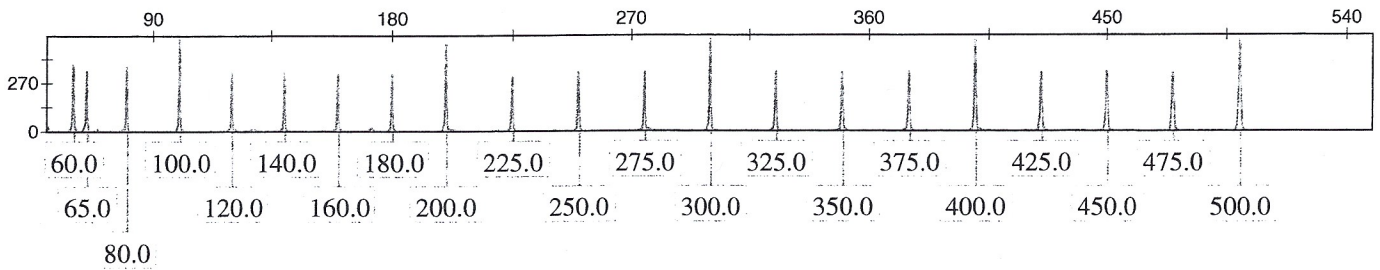
AA0122-15 p. 18

ASB

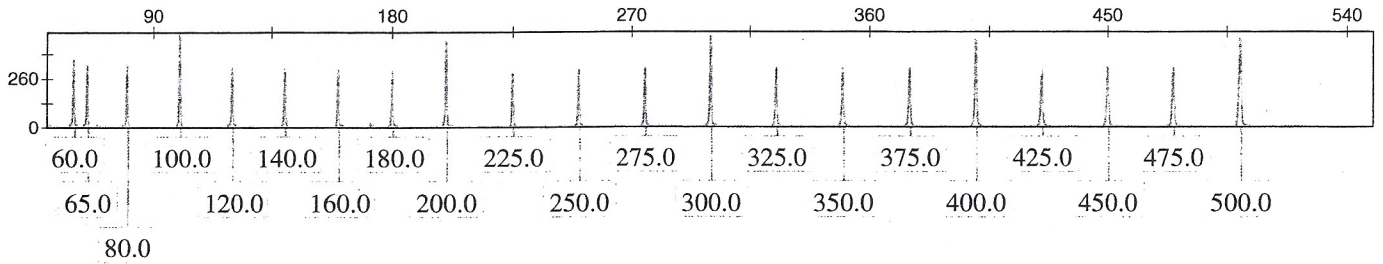
Sample File	Sample Name	SQ
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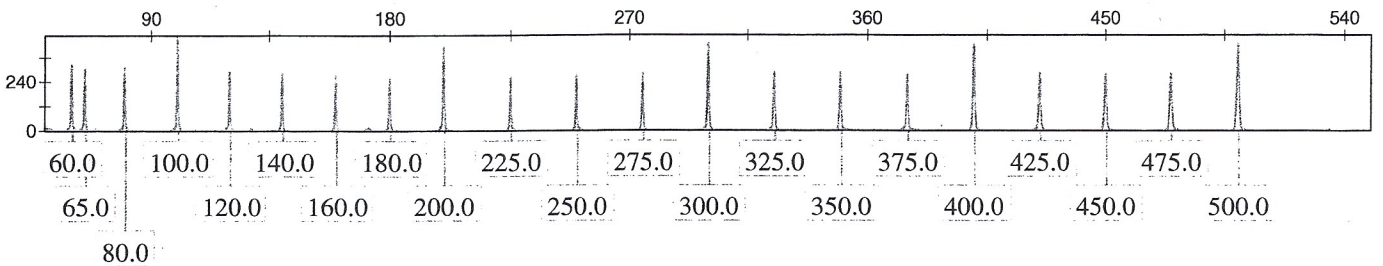
AA0122-15 CS-04.PPFusion 5s.C03.04.2015-05-14-09-59-07.hid	AA0122-15 CS-04	
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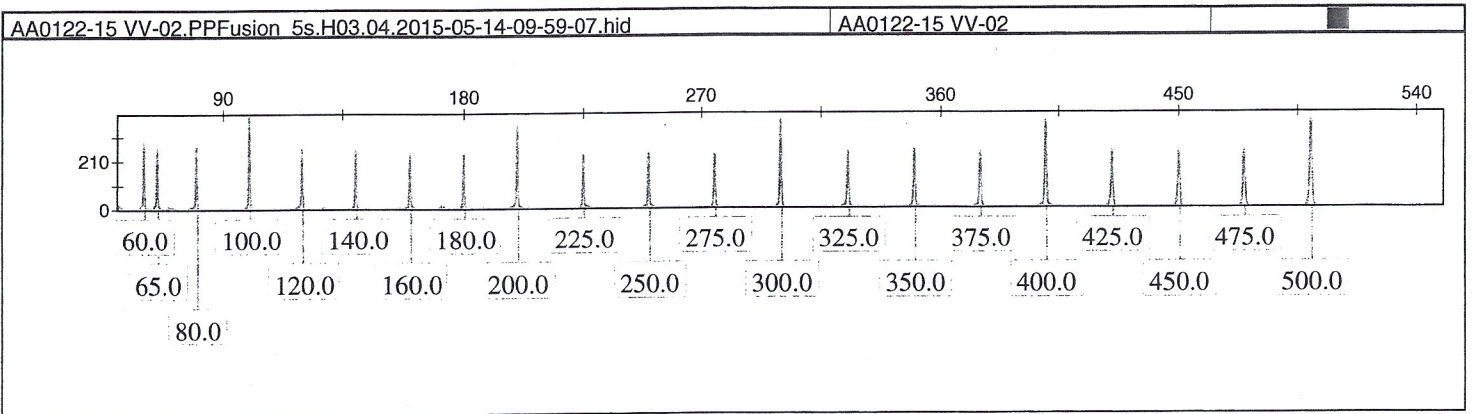
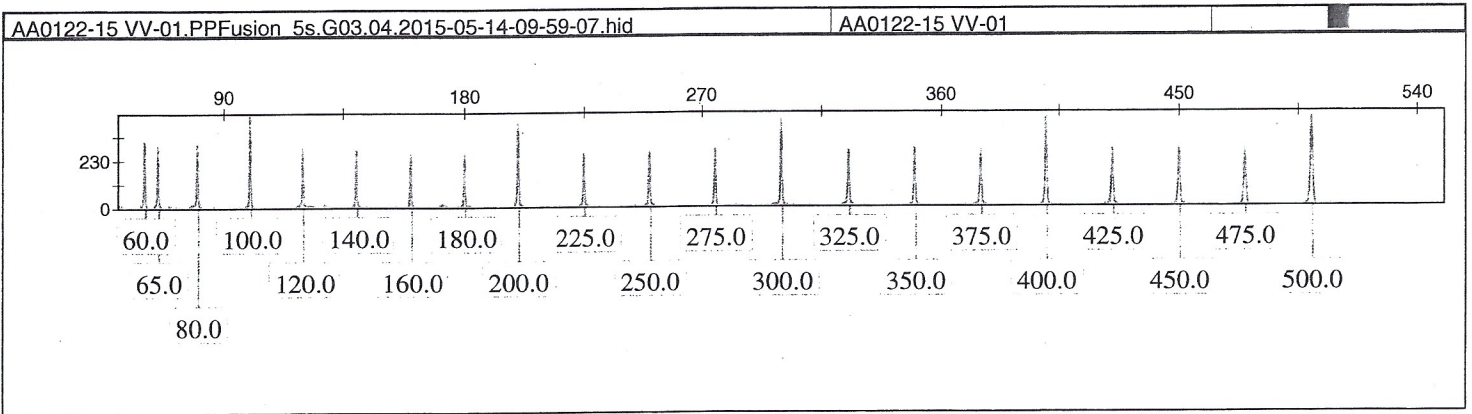
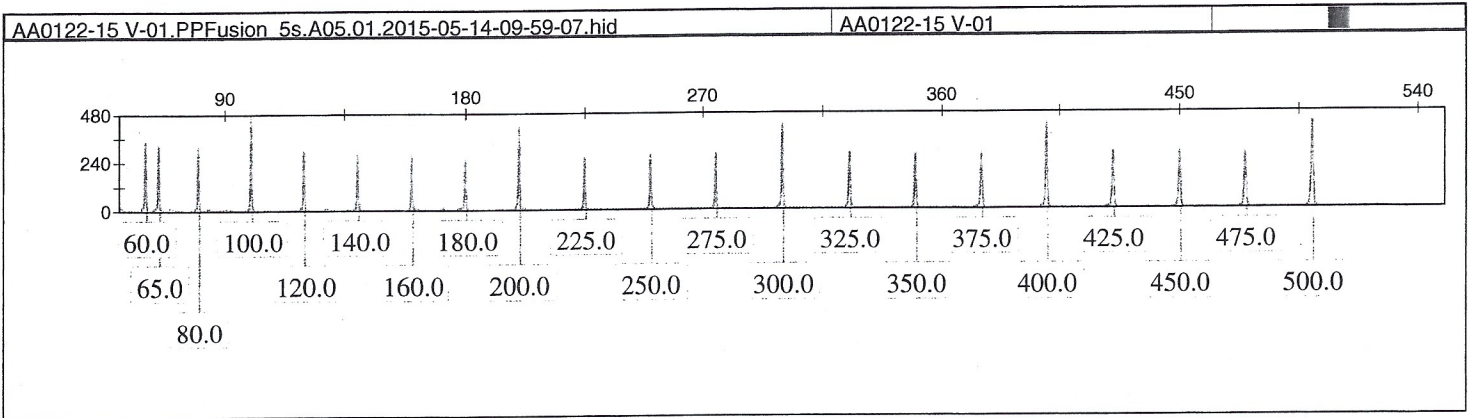
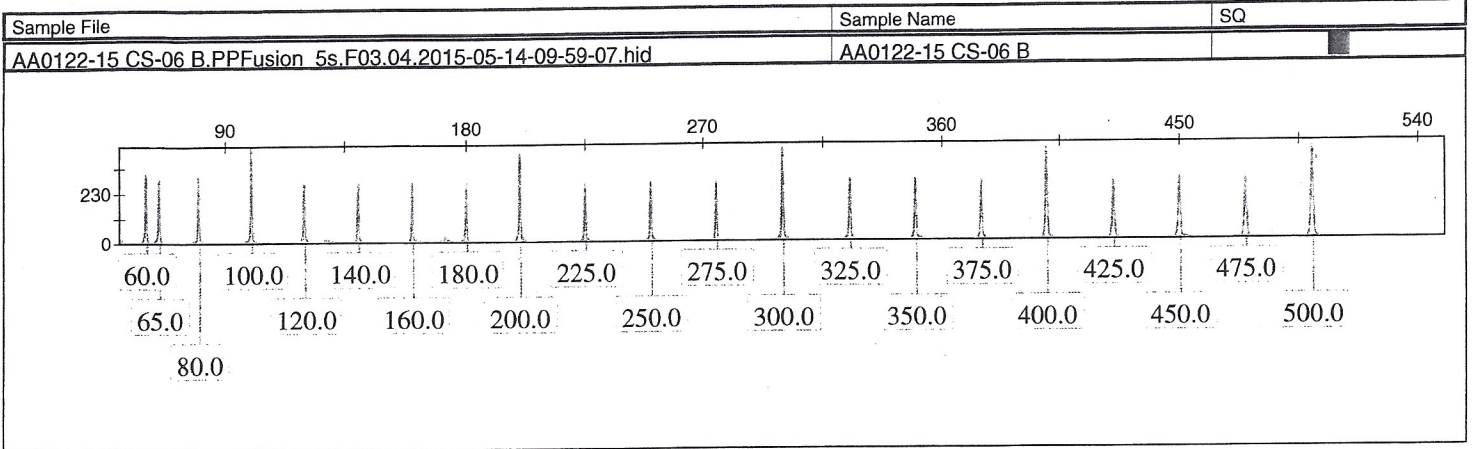
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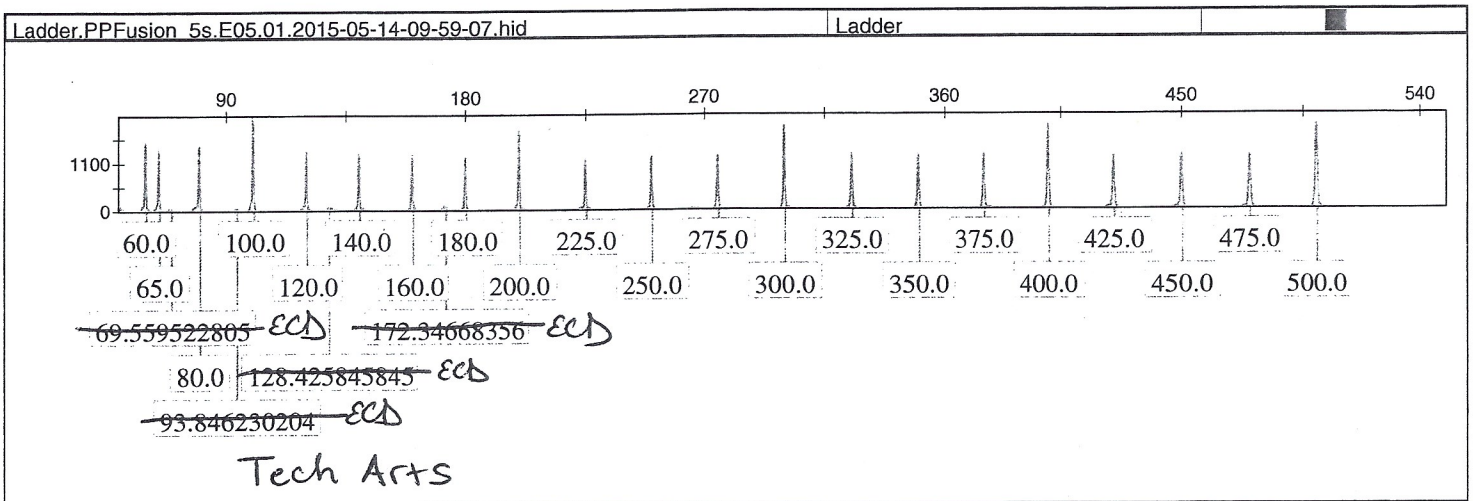
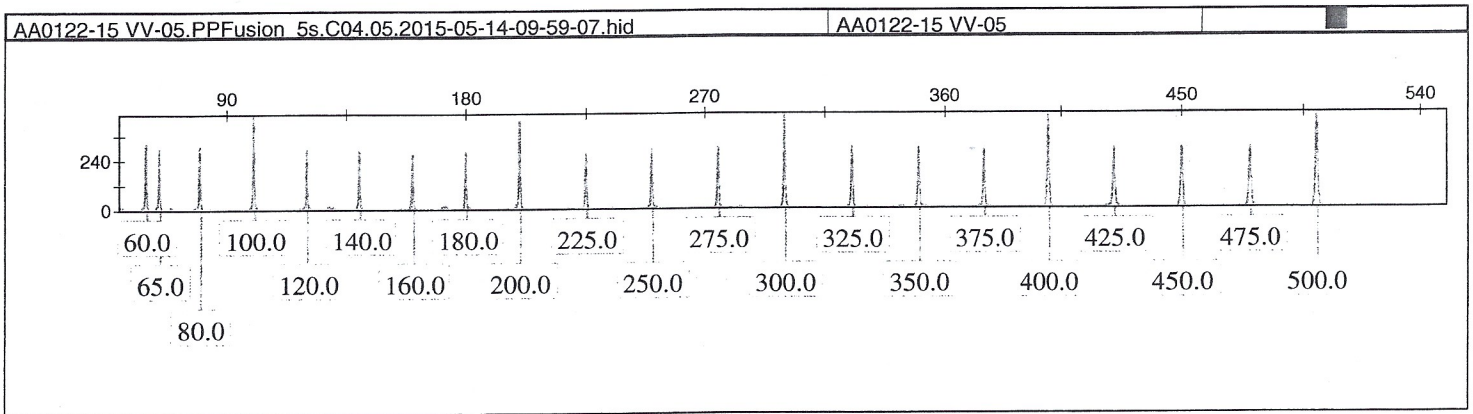
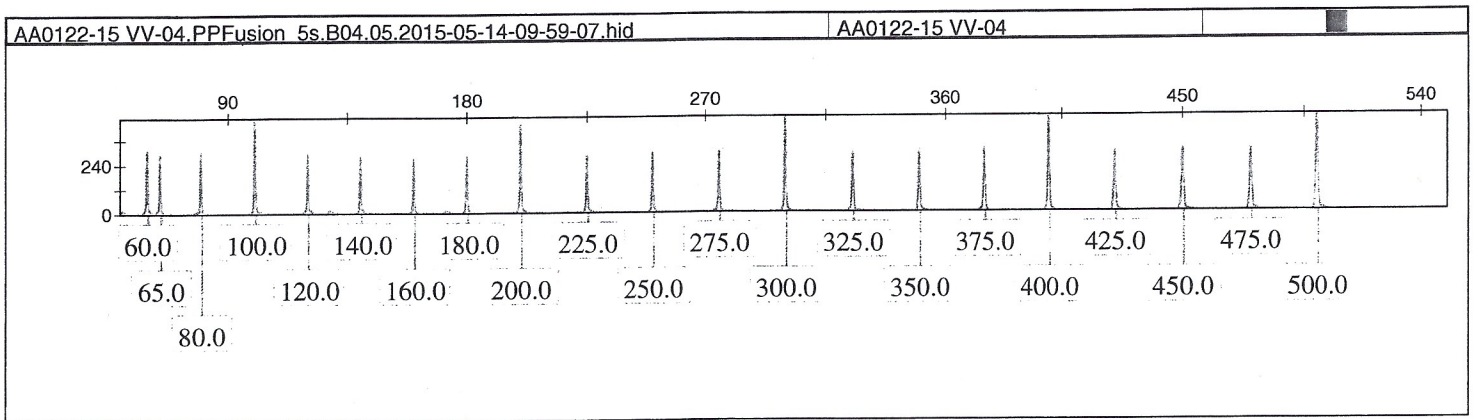
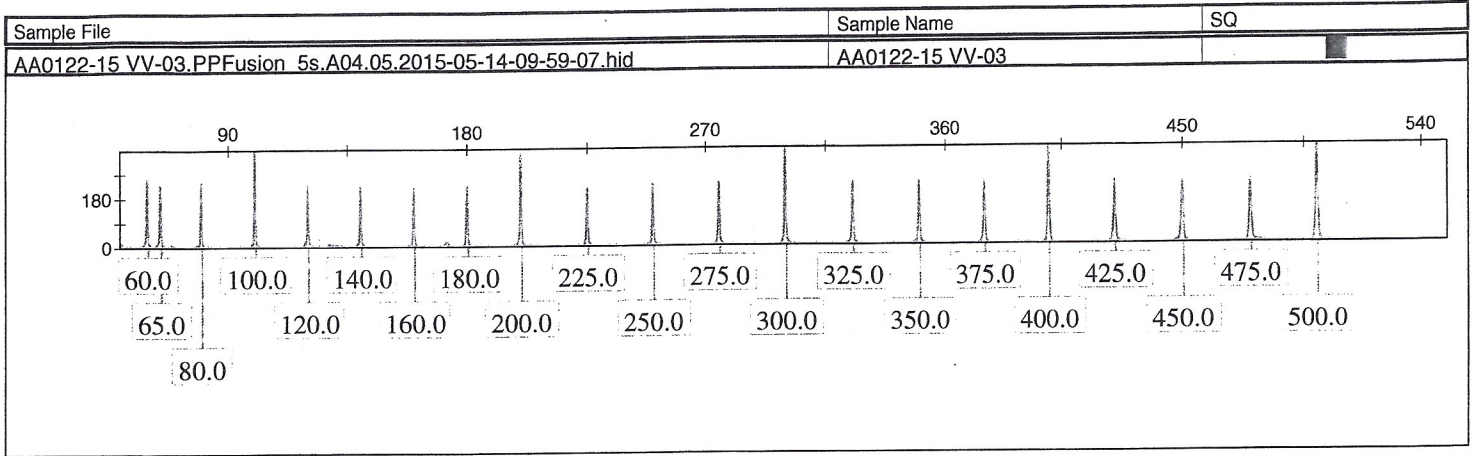
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ECD

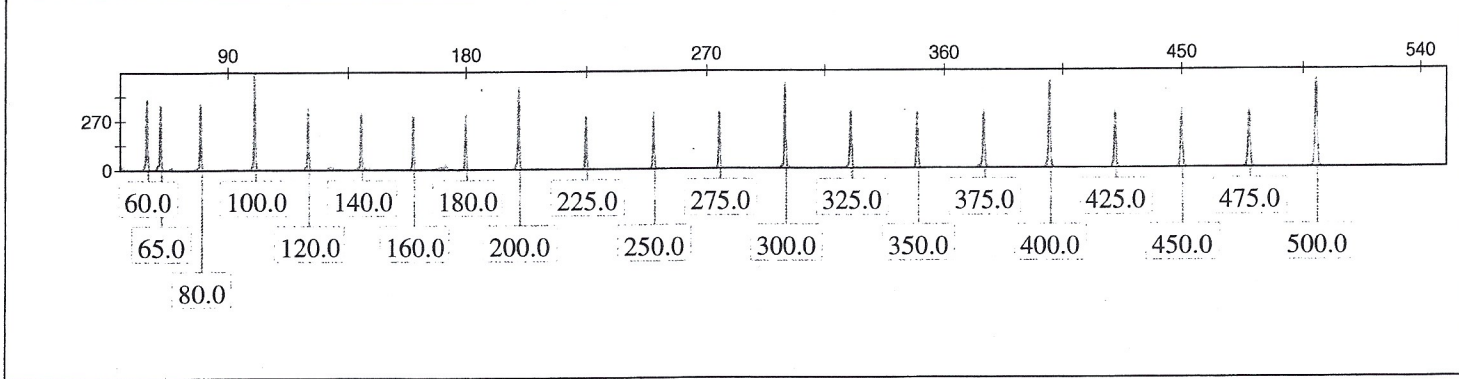


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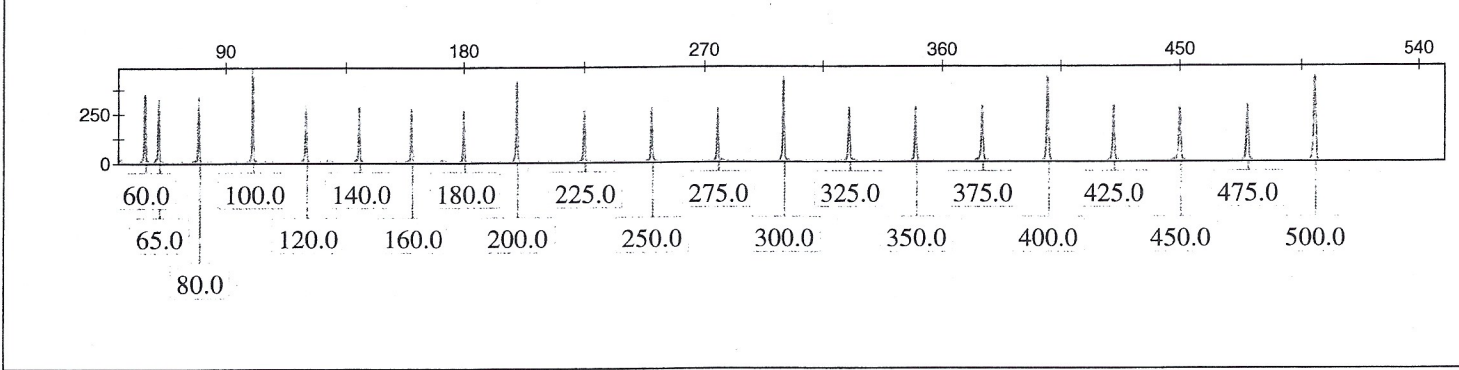


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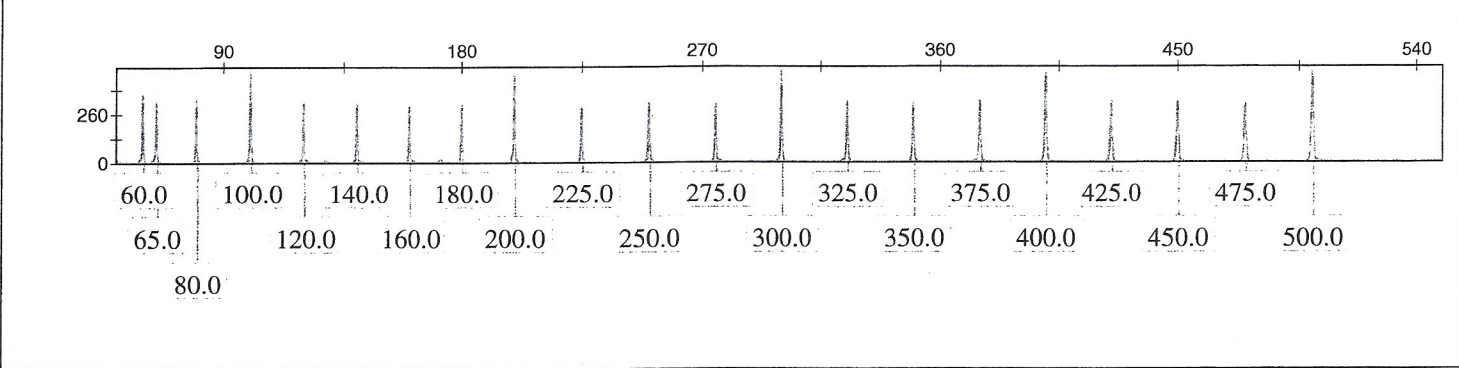
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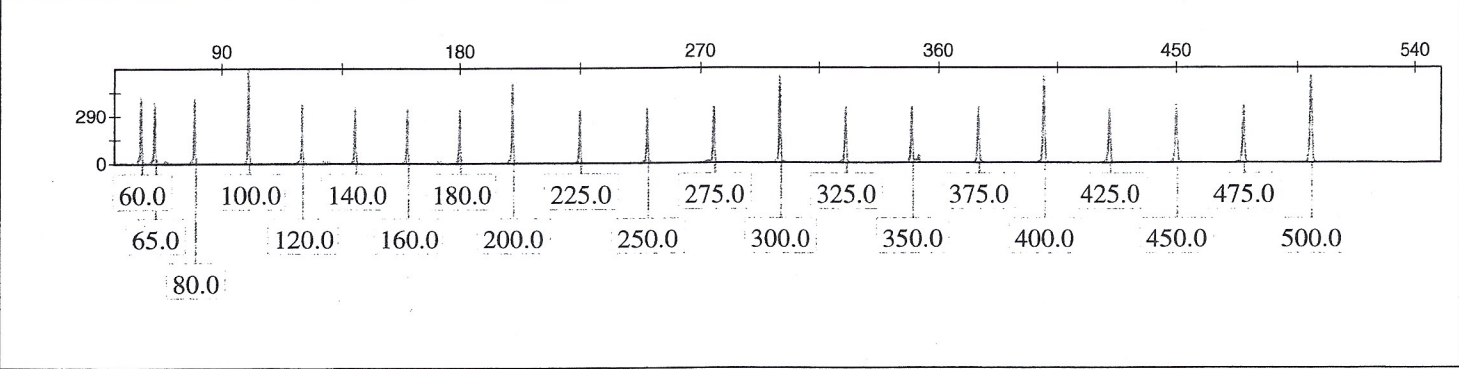
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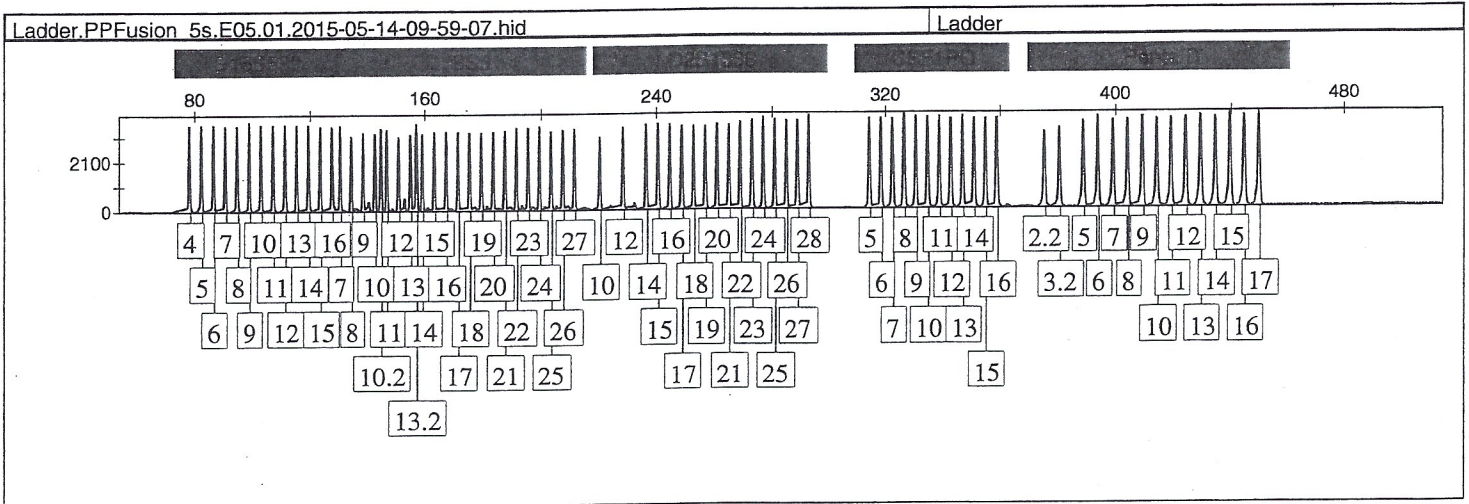
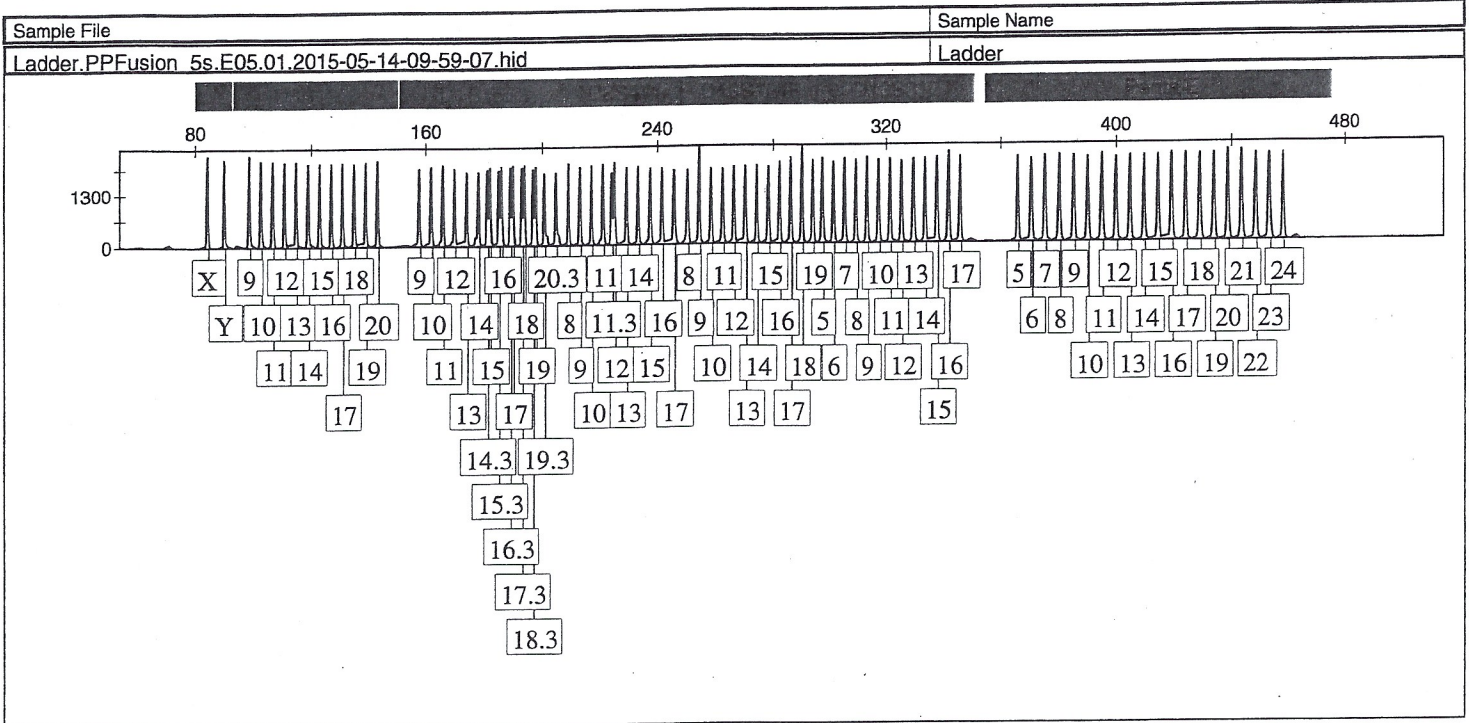
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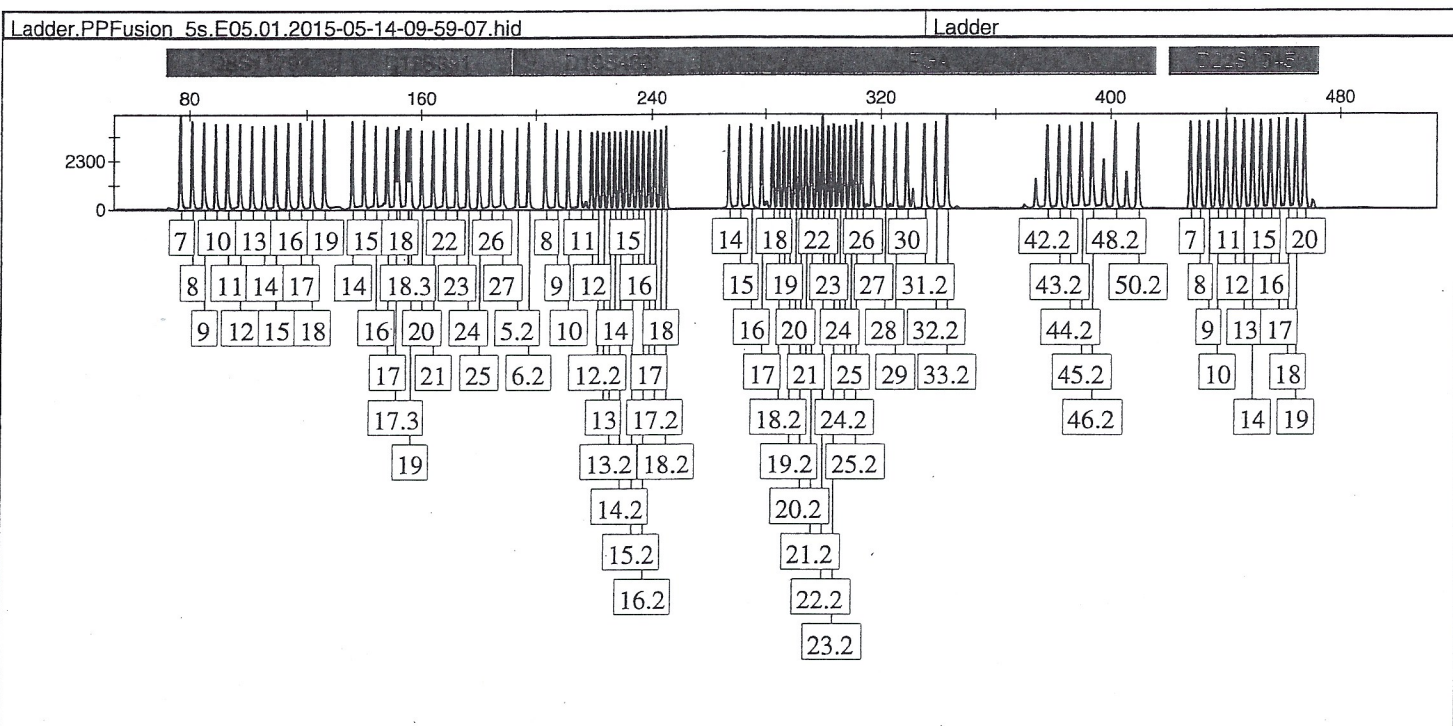
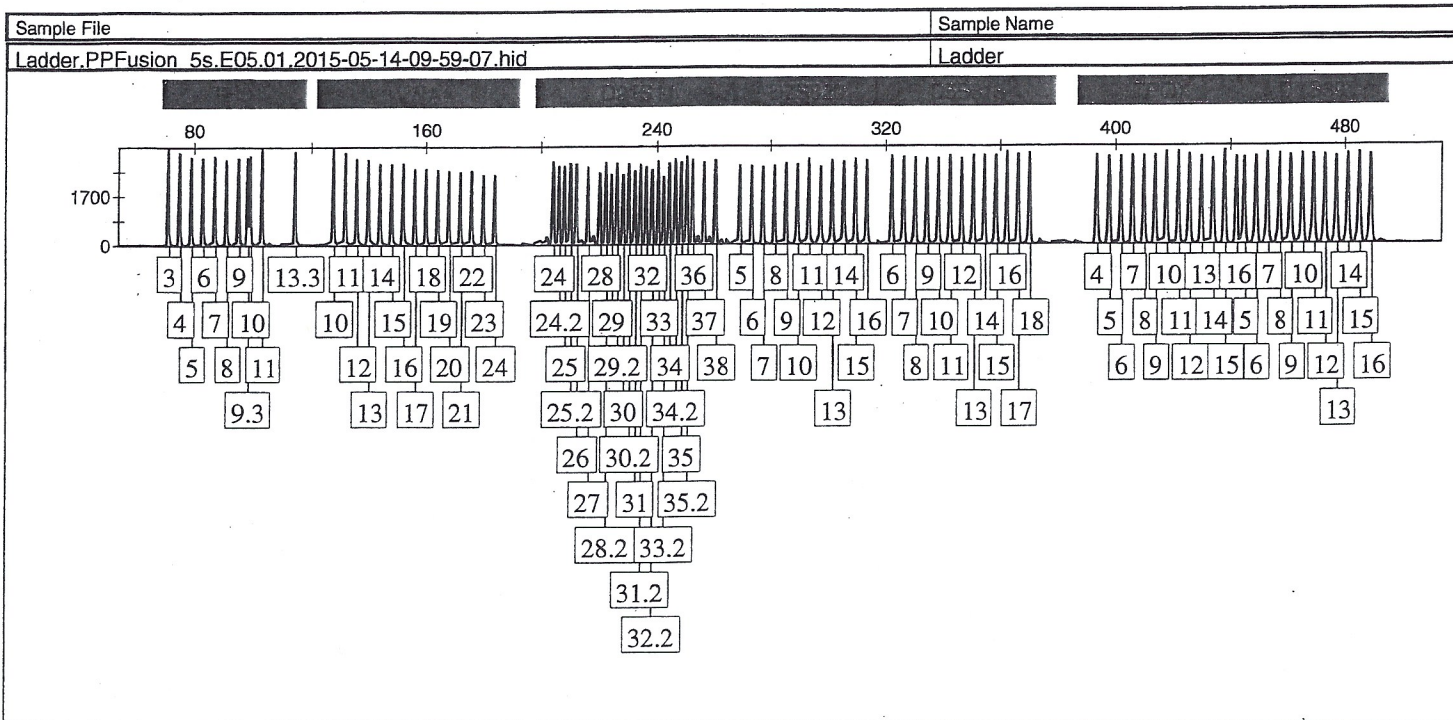
Sample File	Sample Name	SQ
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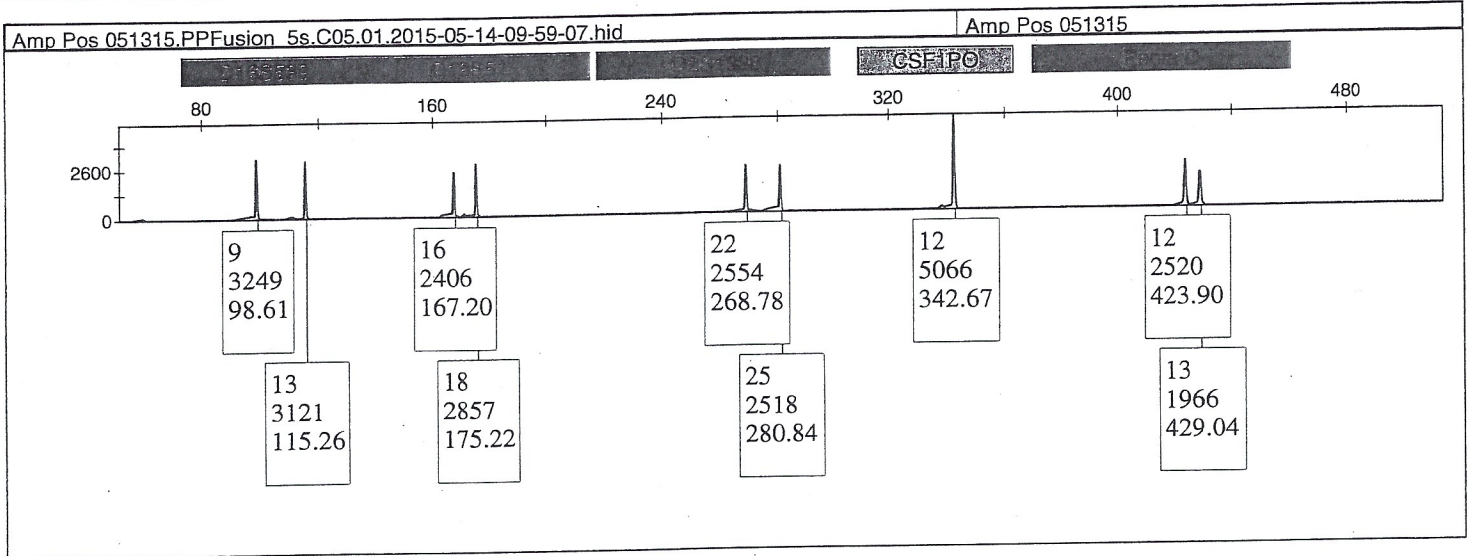
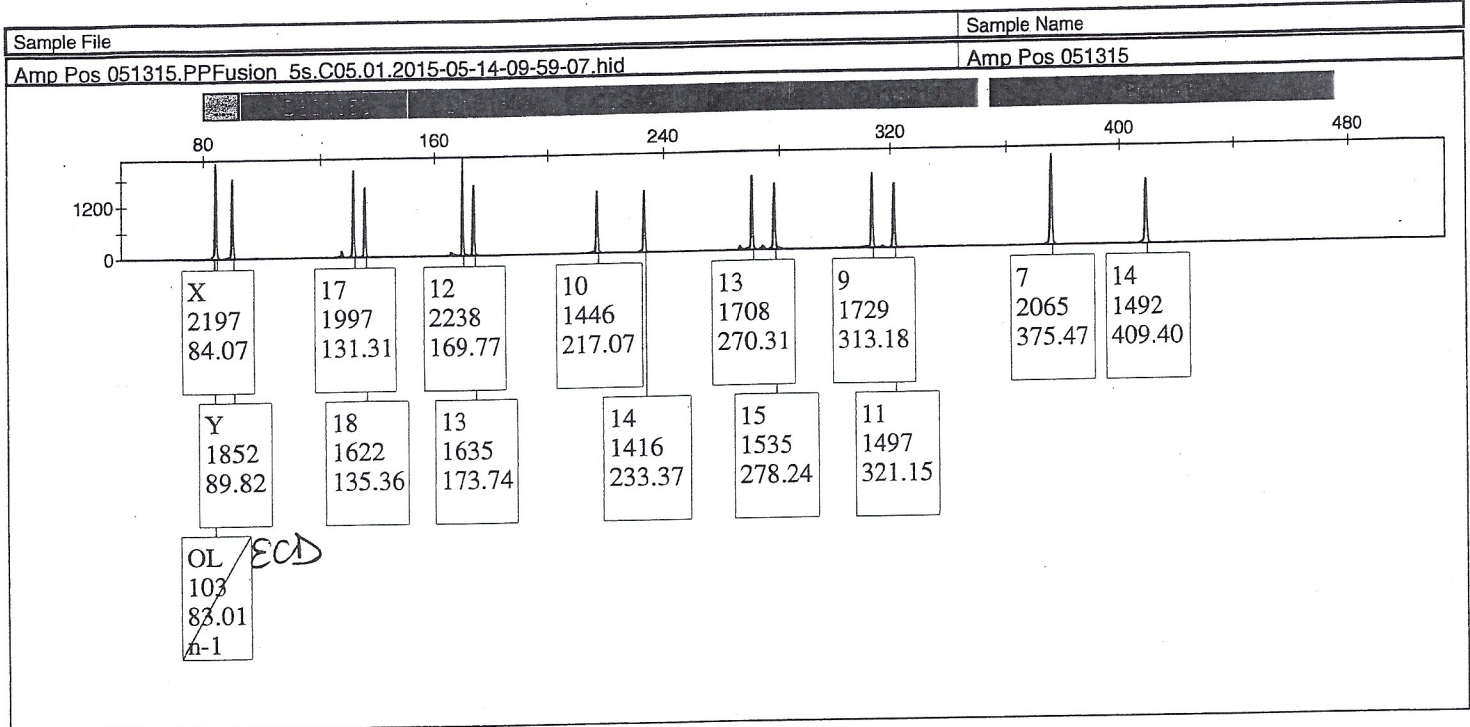
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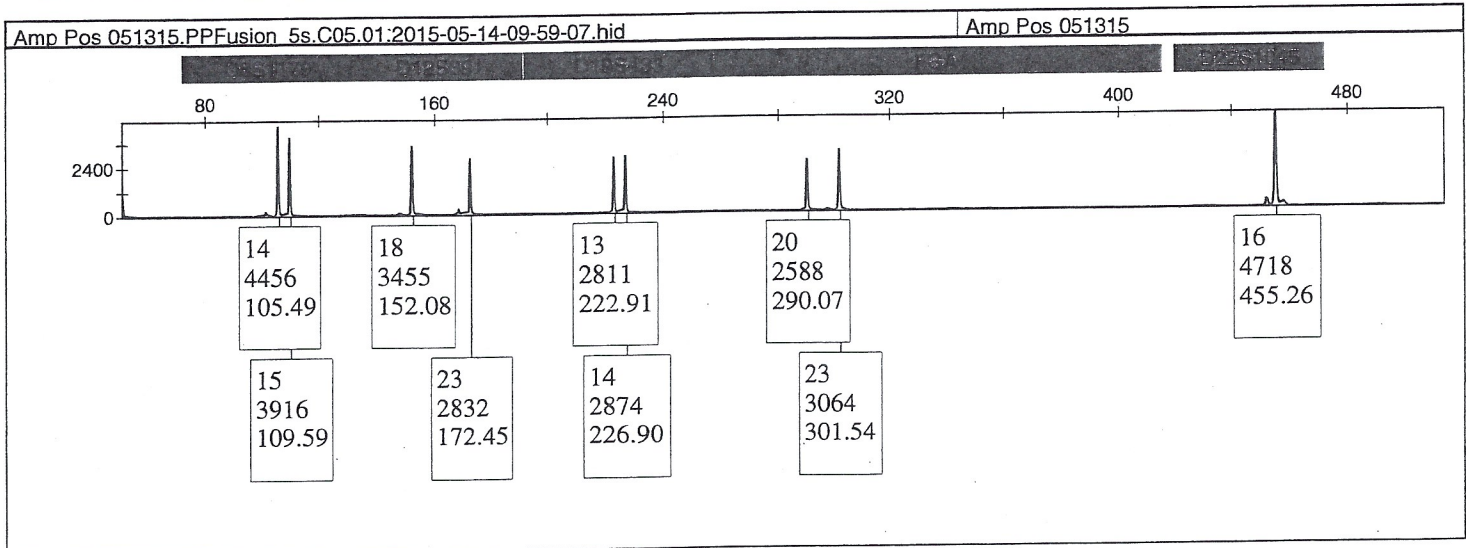
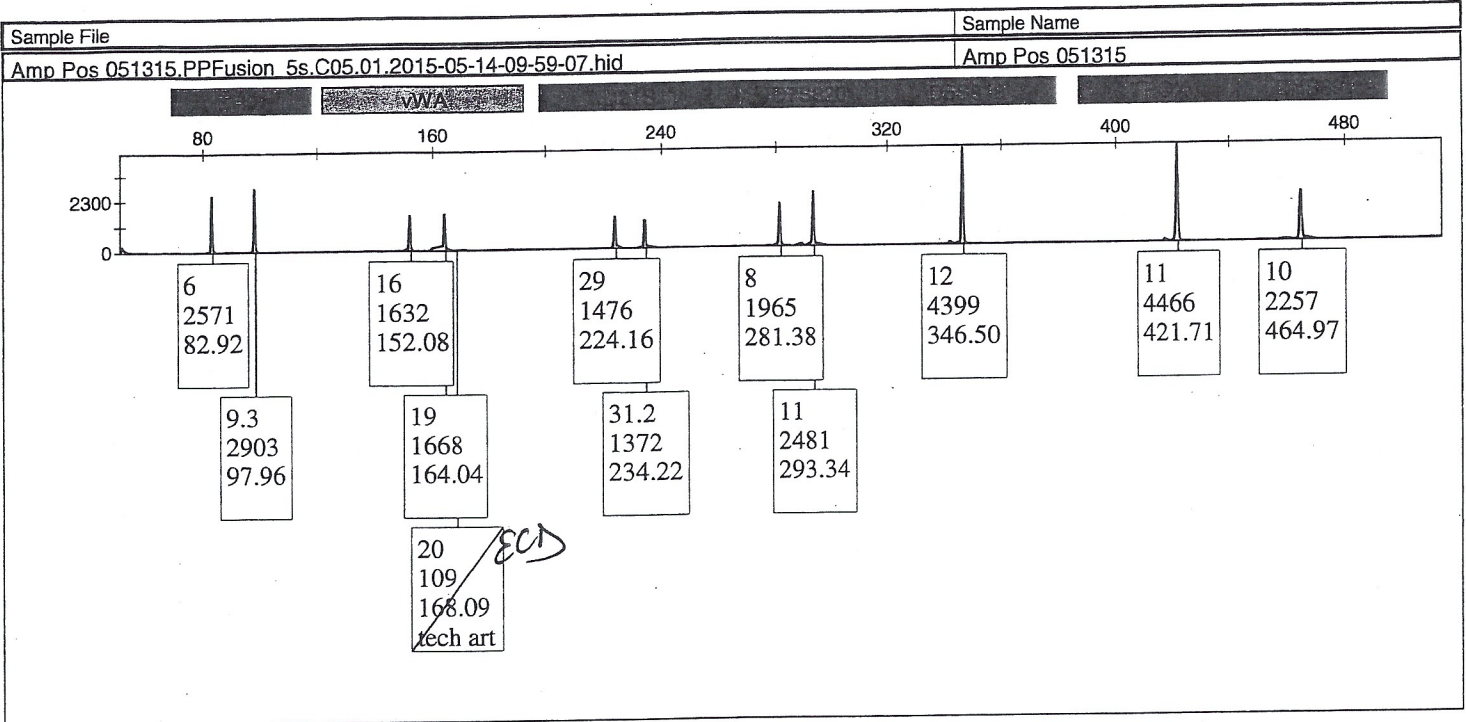
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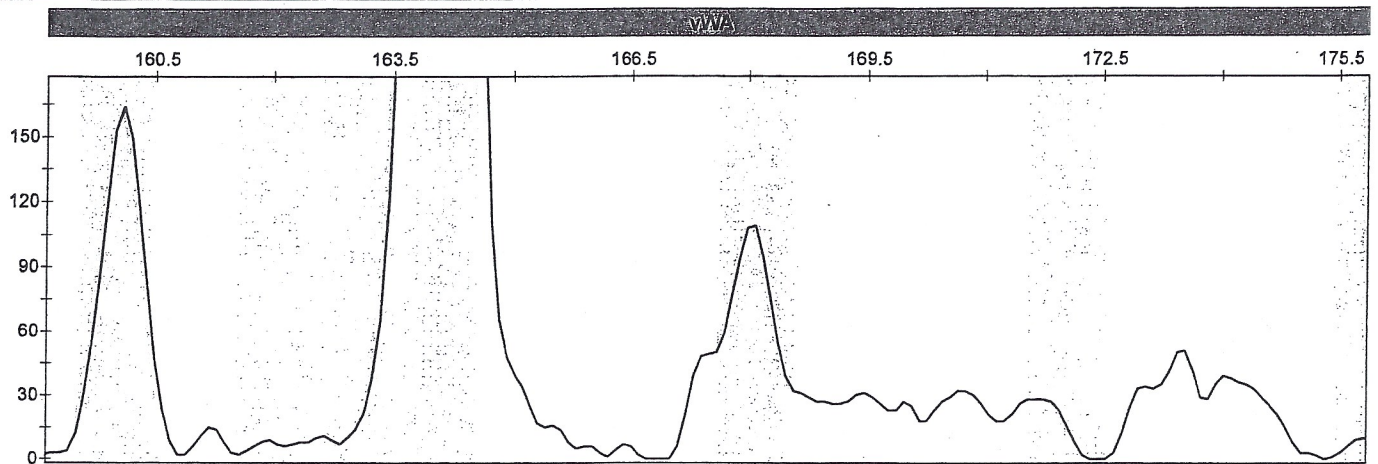


ECD



ECD

Sample File	Sample Name
Amp Pos 051315.PPFusion 5s.C05.01.2015-05-14-09-59-07.hid	Amp Pos 051315



19
1668
164.04

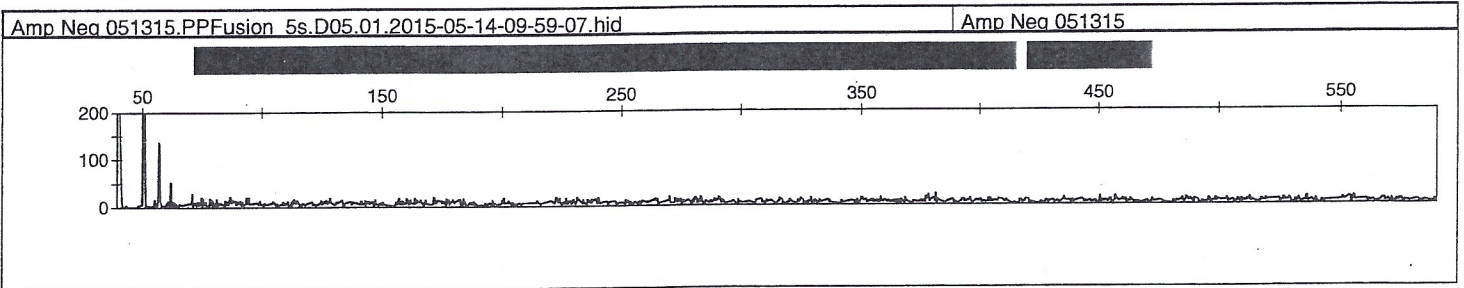
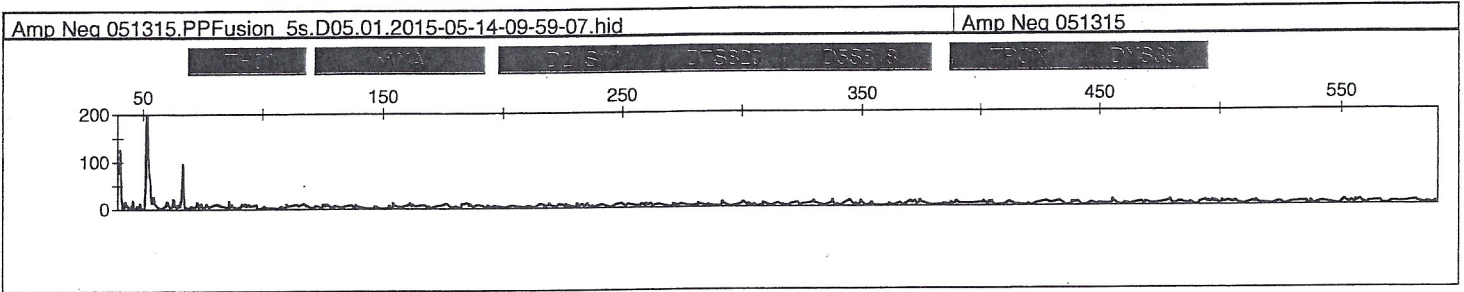
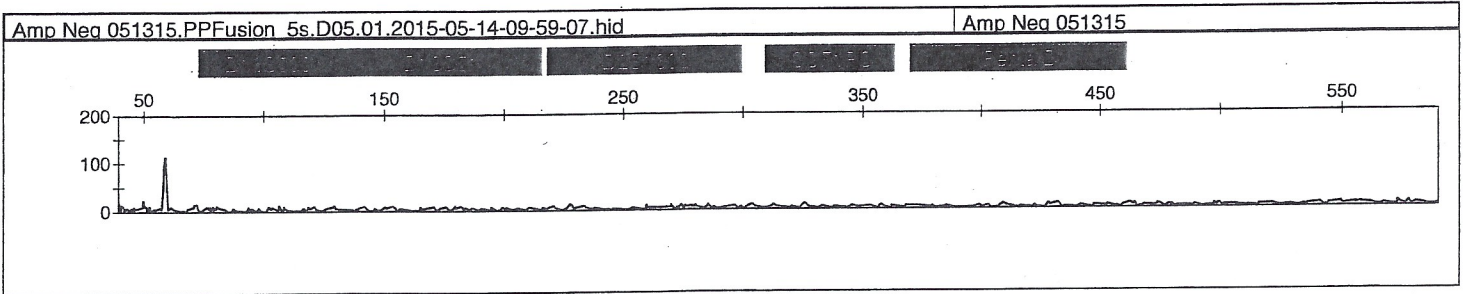
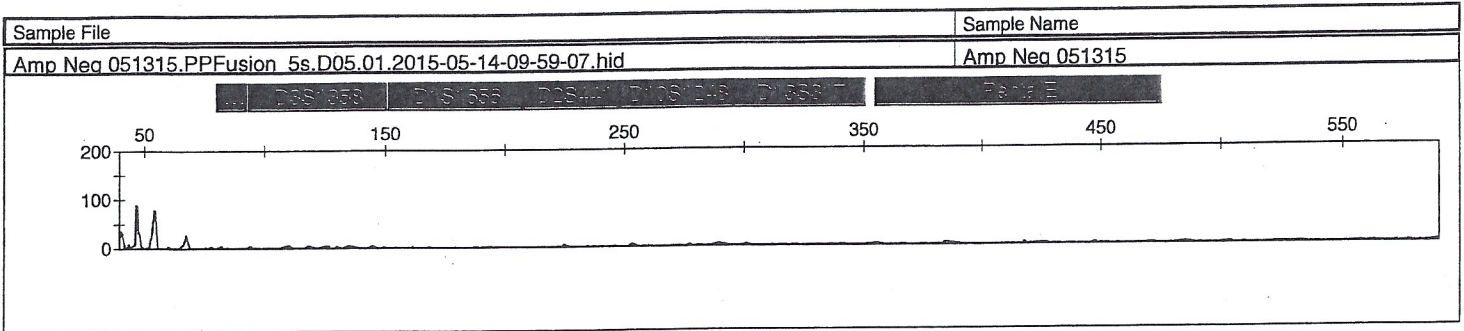
20
109
168.09
tech art

ECD

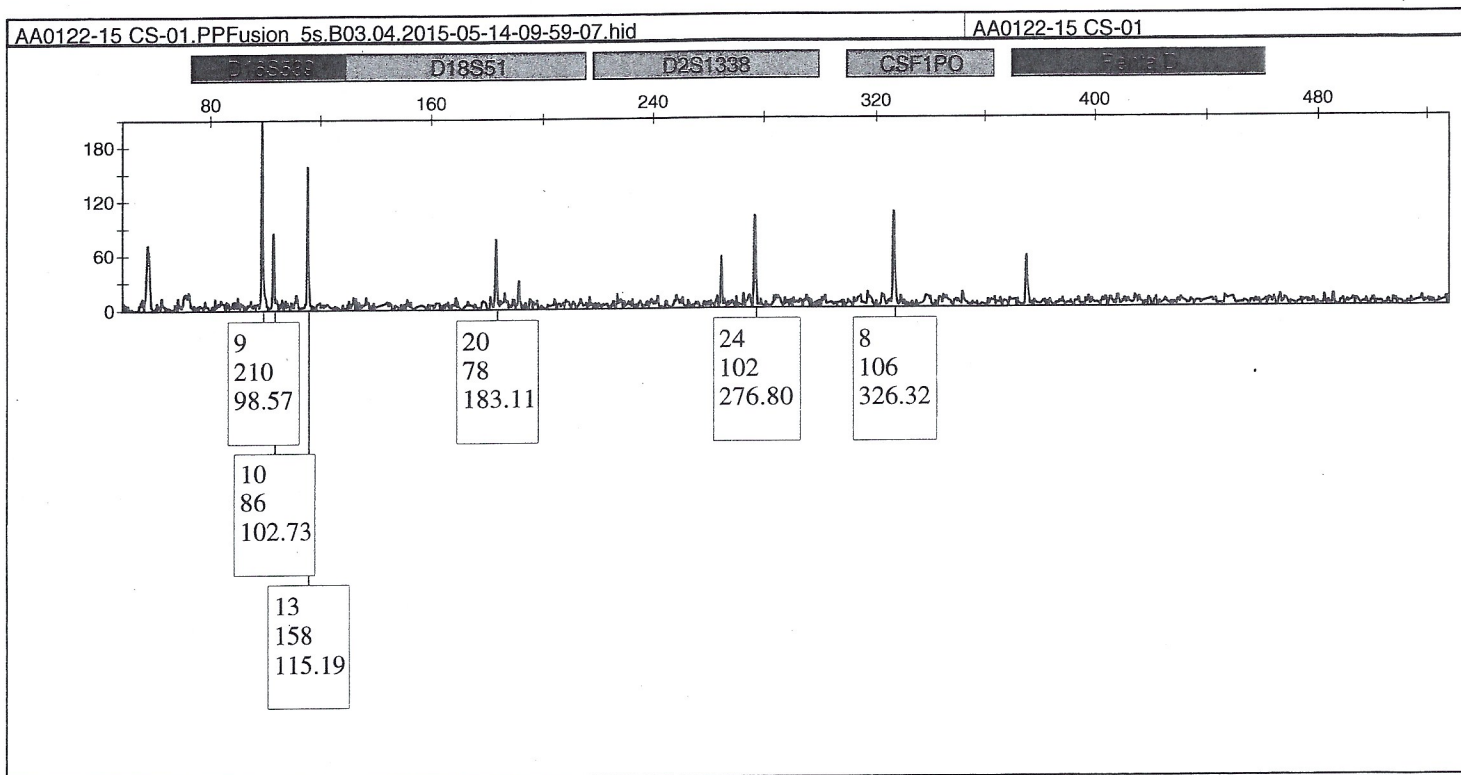
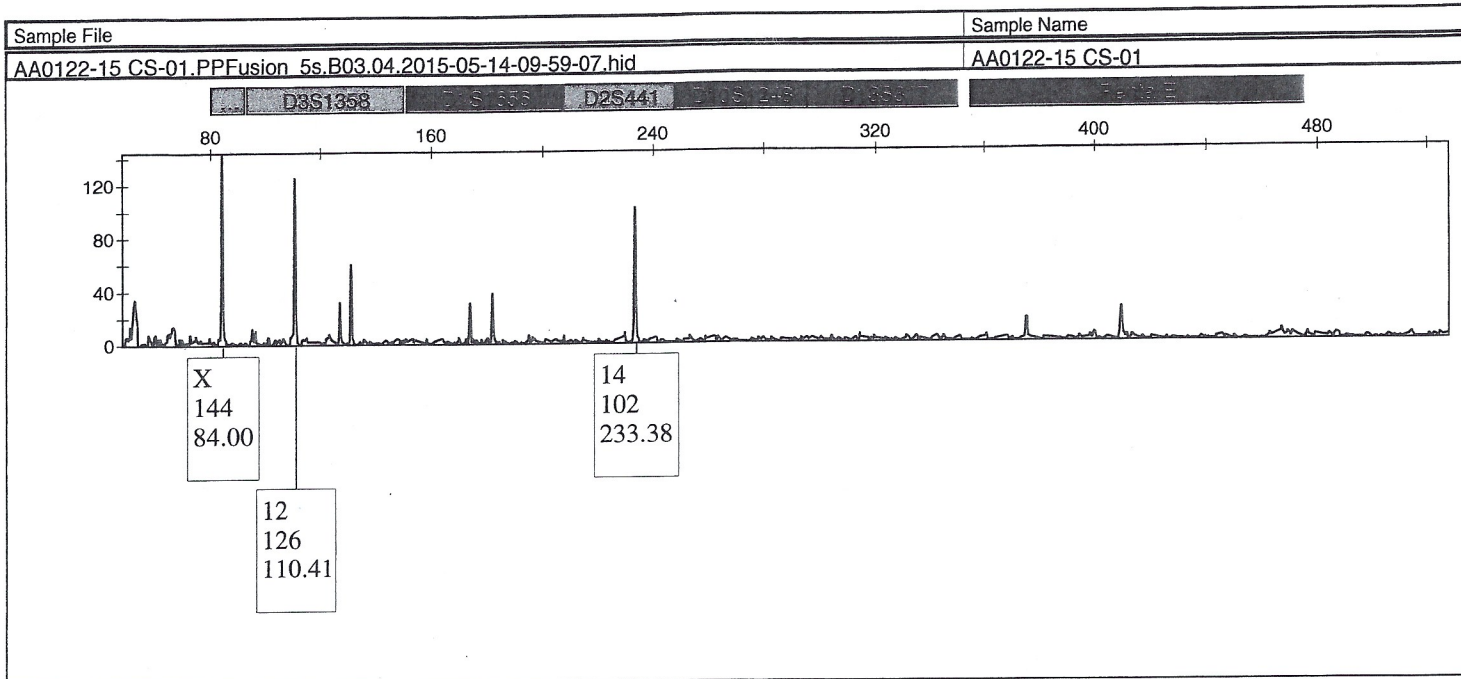
ECD

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1	Amp Pos 051315	AMEL	X	Y	2197	1852	▲
2	Amp Pos 051315	D3S1358	17	18	1997	1622	■
3	Amp Pos 051315	D1S1656	12	13	2238	1635	■
4	Amp Pos 051315	D2S441	10	14	1446	1416	■
5	Amp Pos 051315	D10S1248	13	15	1708	1535	■
6	Amp Pos 051315	D13S317	9	11	1729	1497	■
7	Amp Pos 051315	Penta E	7	14	2065	1492	■
8	Amp Pos 051315	D16S539	9	13	3249	3121	■
9	Amp Pos 051315	D18S51	16	18	2406	2857	■
10	Amp Pos 051315	D2S1338	22	25	2554	2518	■
11	Amp Pos 051315	CSF1PO	12		5066		■
12	Amp Pos 051315	Penta D	12	13	2520	1966	■
13	Amp Pos 051315	TH01	6	9.3	2571	2903	■
14	Amp Pos 051315	vWA	16	19	1632	1668	▲
15	Amp Pos 051315	D21S11	29	31.2	1476	1372	■
16	Amp Pos 051315	D7S820	8	11	1965	2481	■
17	Amp Pos 051315	D5S818	12		4399		■
18	Amp Pos 051315	TPOX	11		4466		■
19	Amp Pos 051315	DYS391	10		2257		■
20	Amp Pos 051315	D8S1179	14	15	4456	3916	■
21	Amp Pos 051315	D12S391	18	23	3455	2832	■
22	Amp Pos 051315	D19S433	13	14	2811	2874	■
23	Amp Pos 051315	FGA	20	23	2588	3064	■
24	Amp Pos 051315	D22S1045	16		4718		■

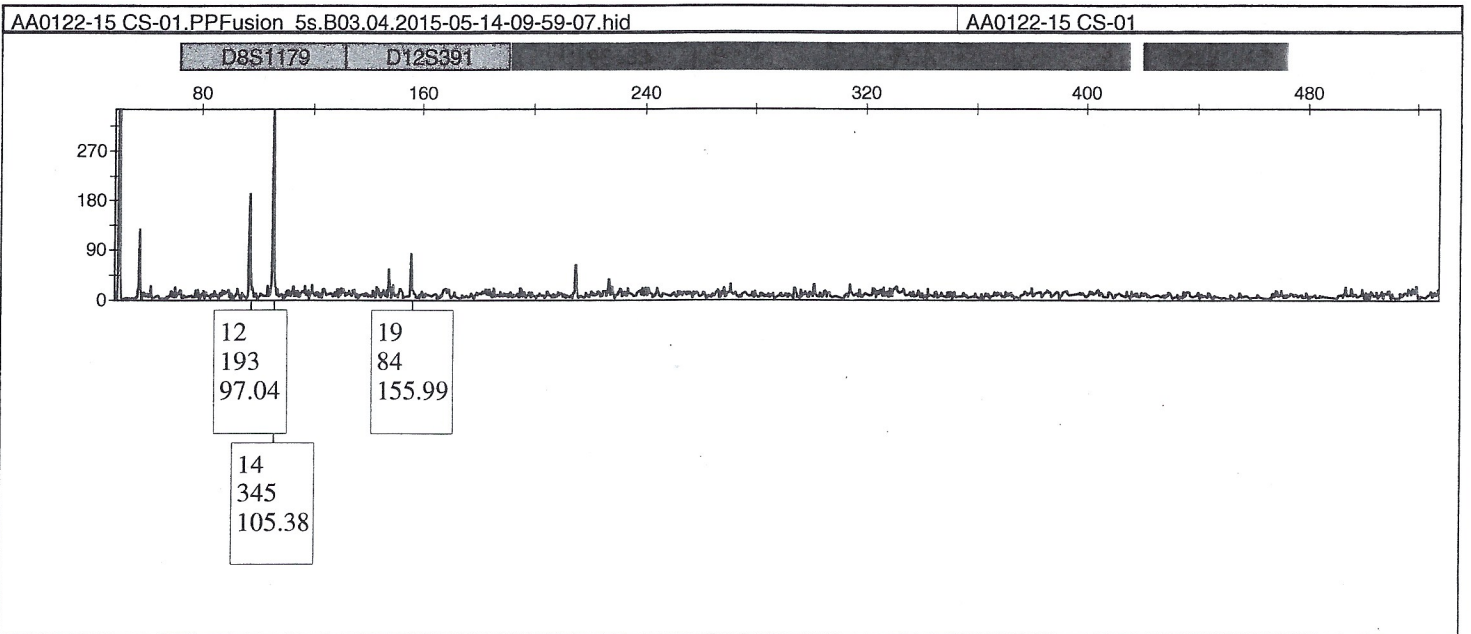
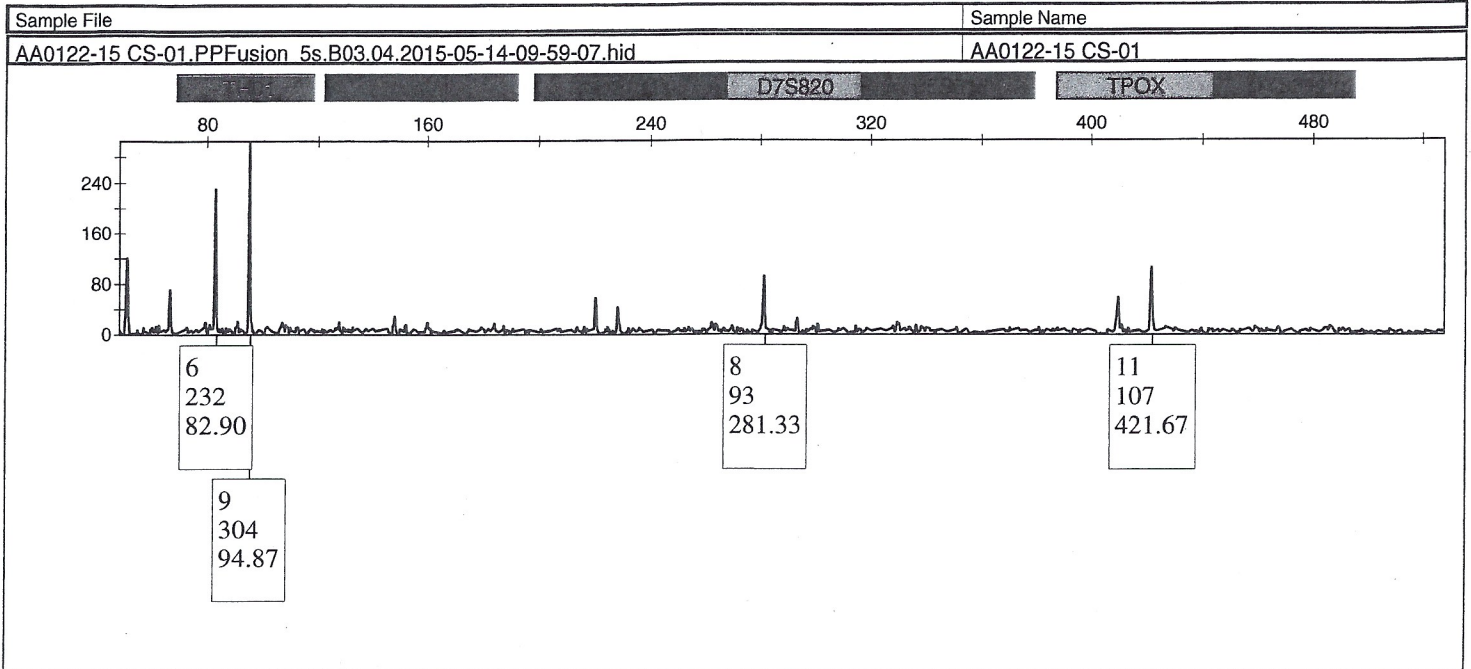
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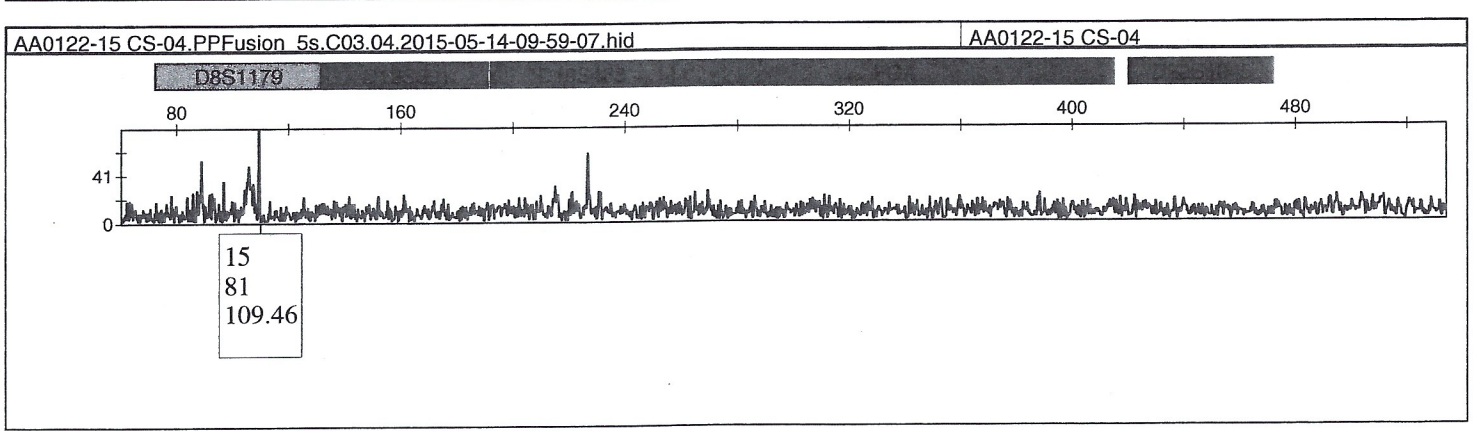
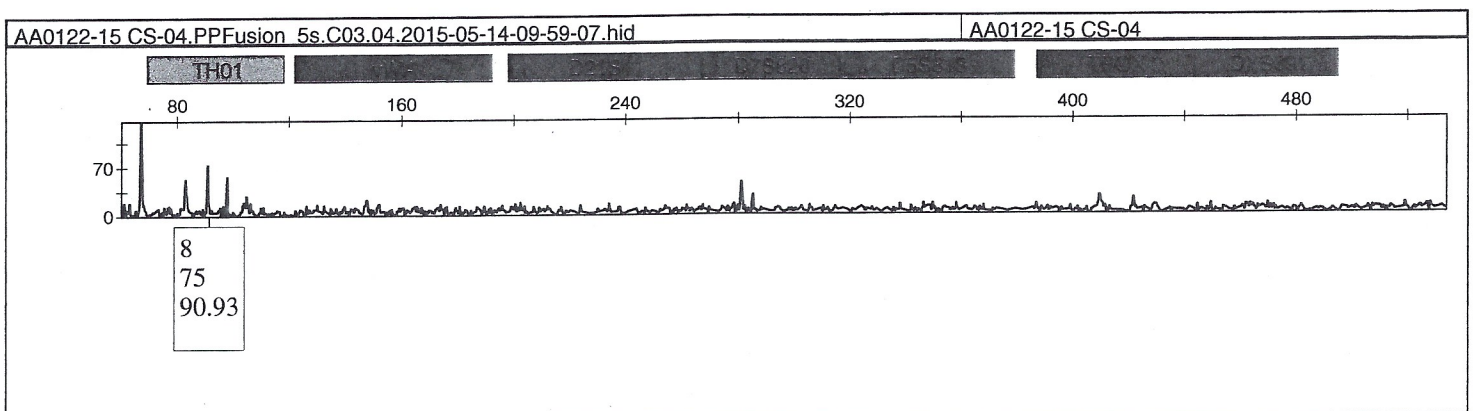
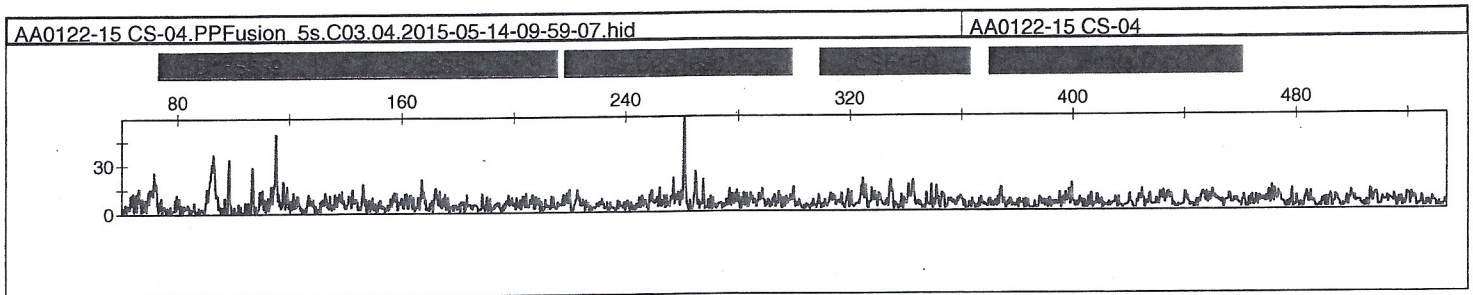
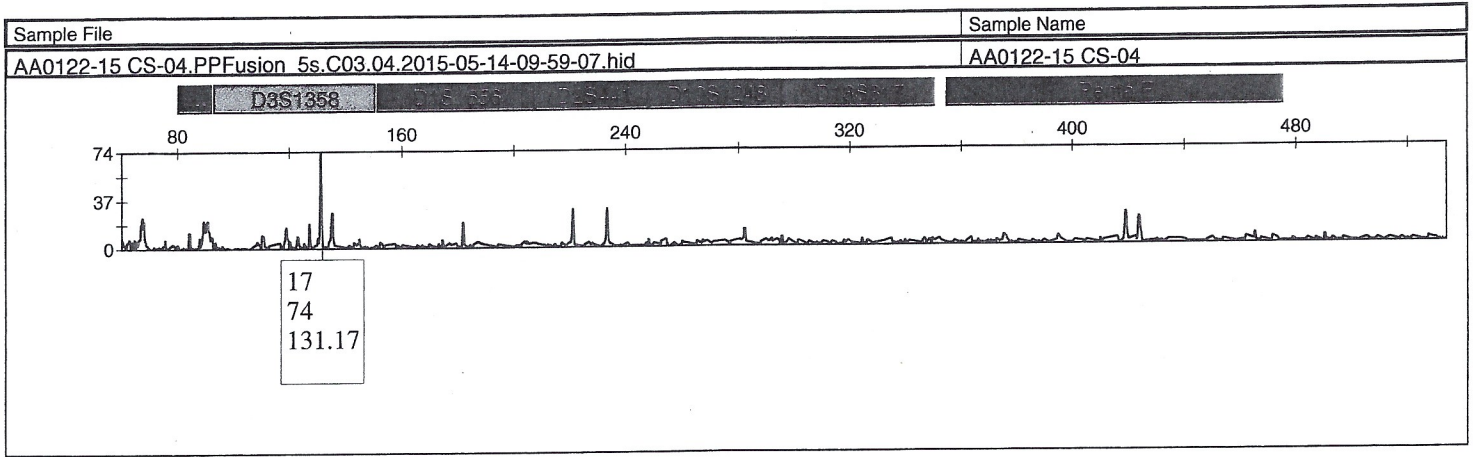
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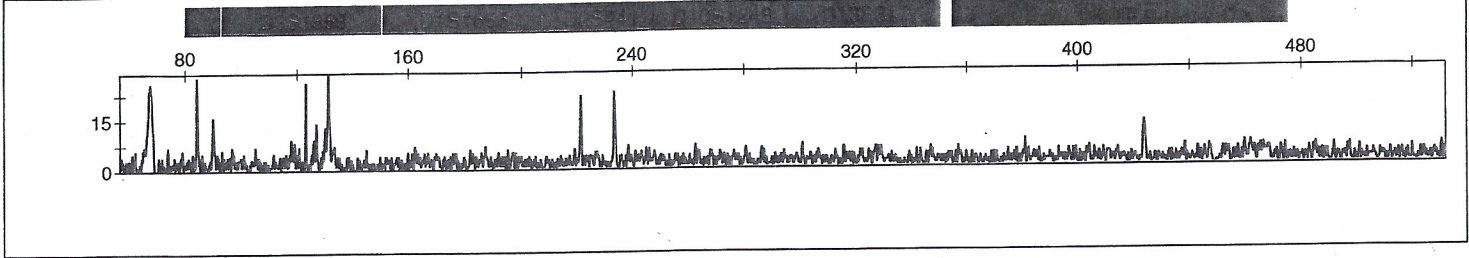


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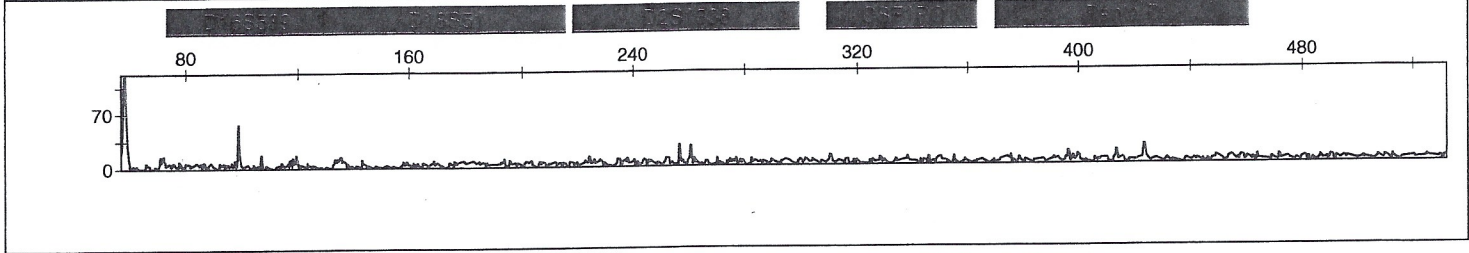


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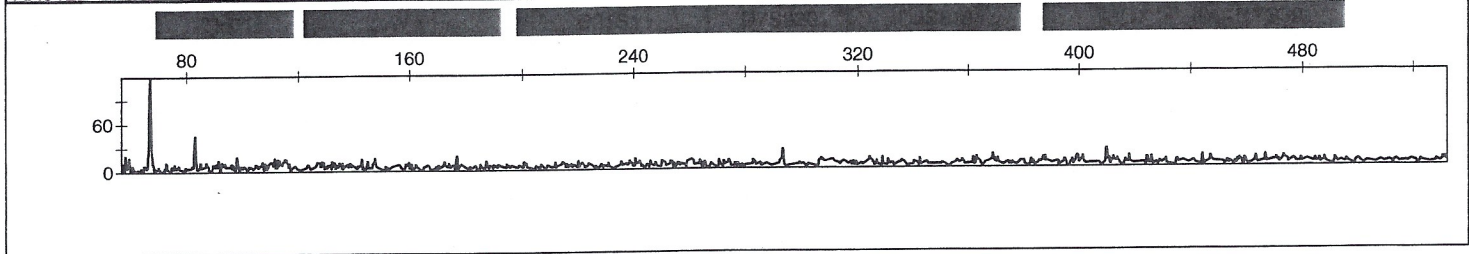
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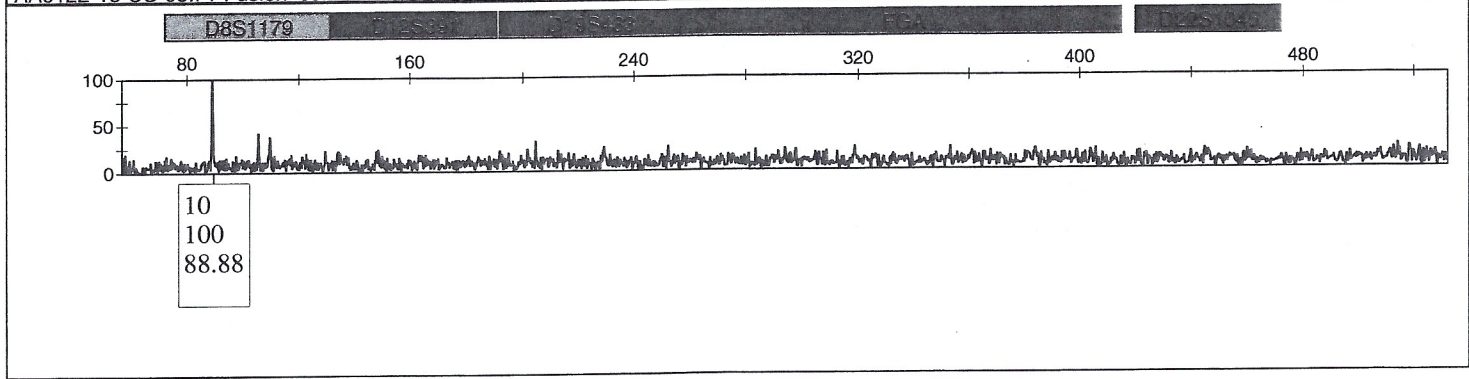
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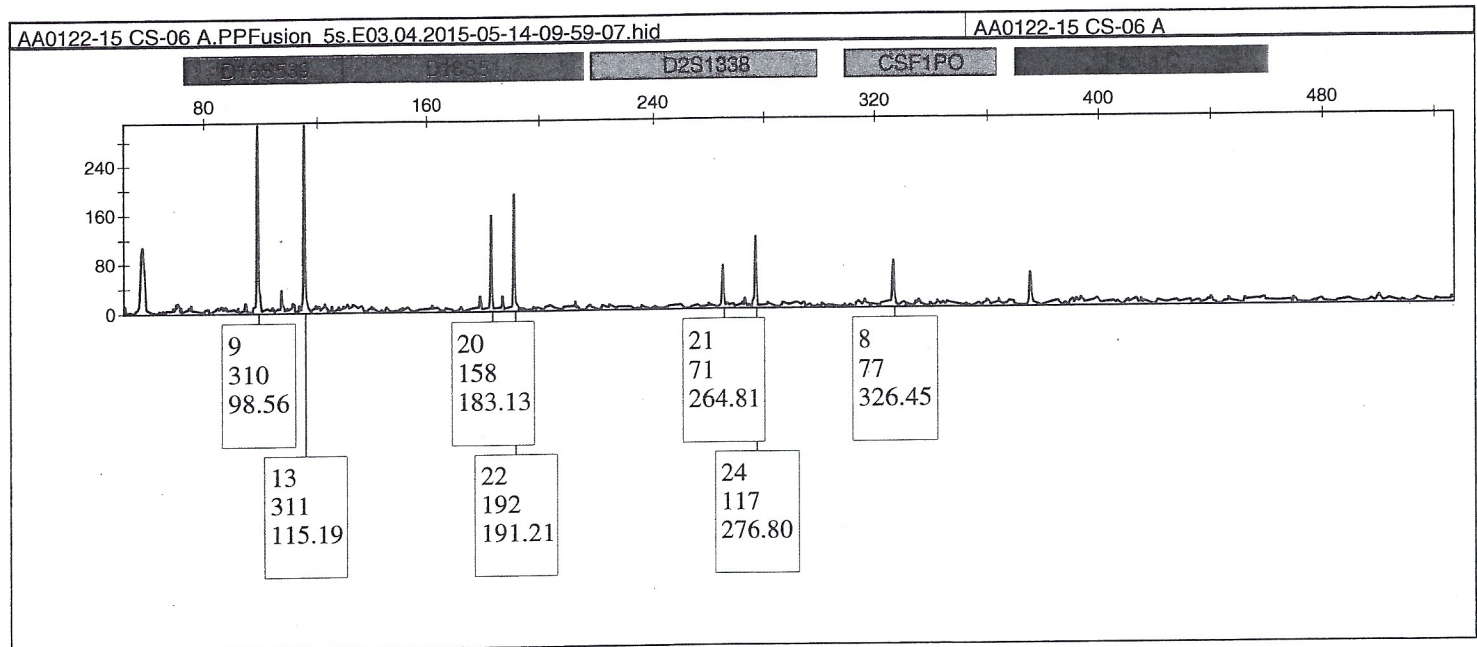
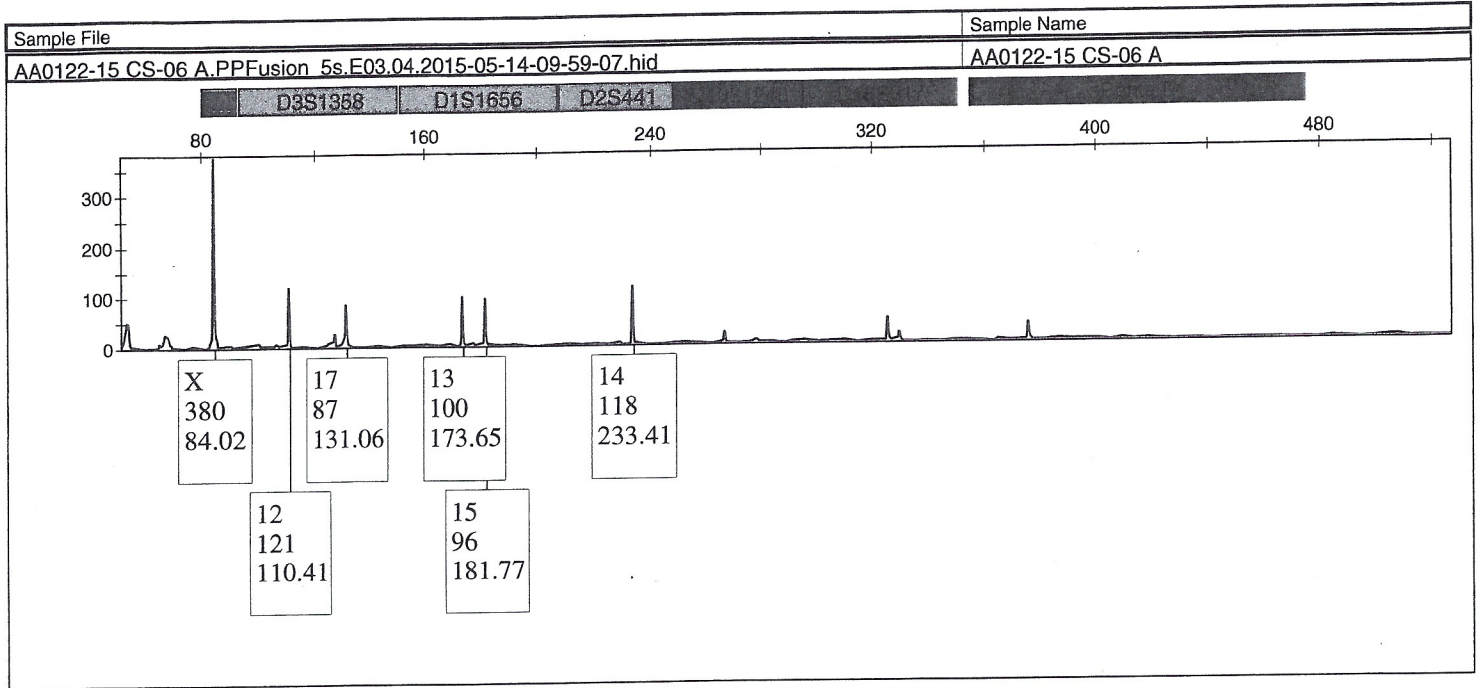
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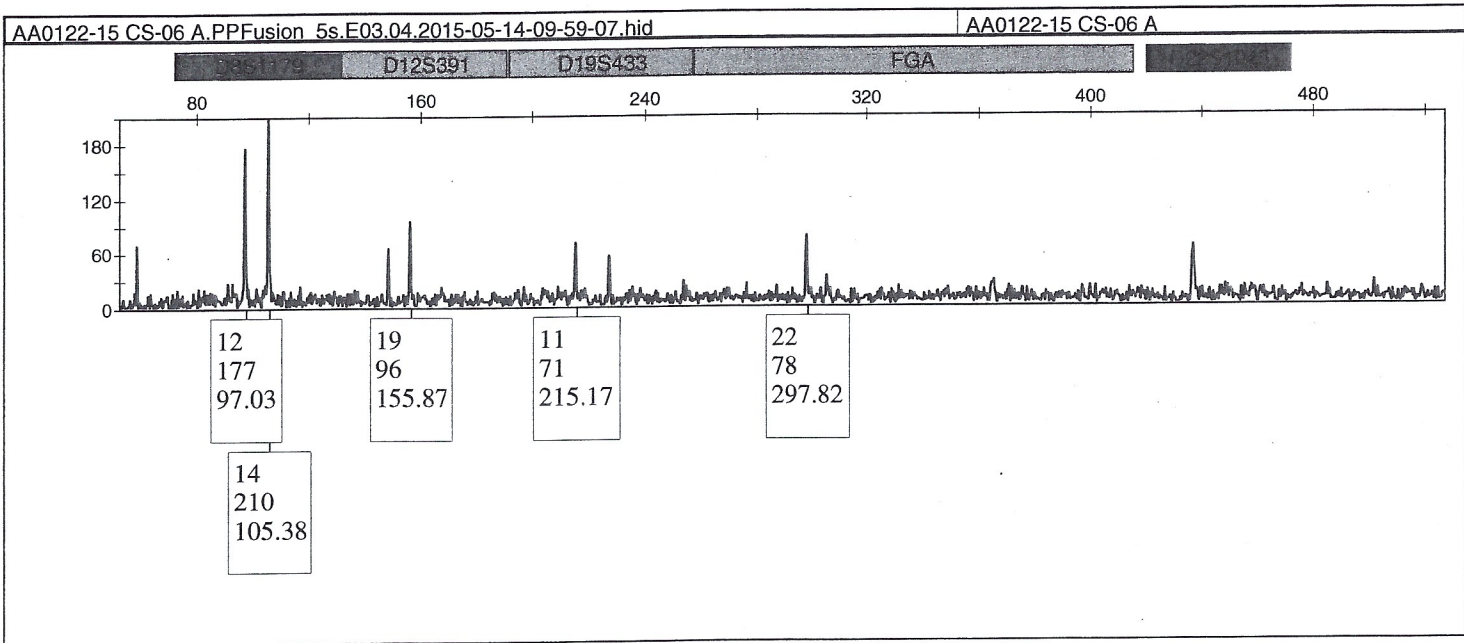
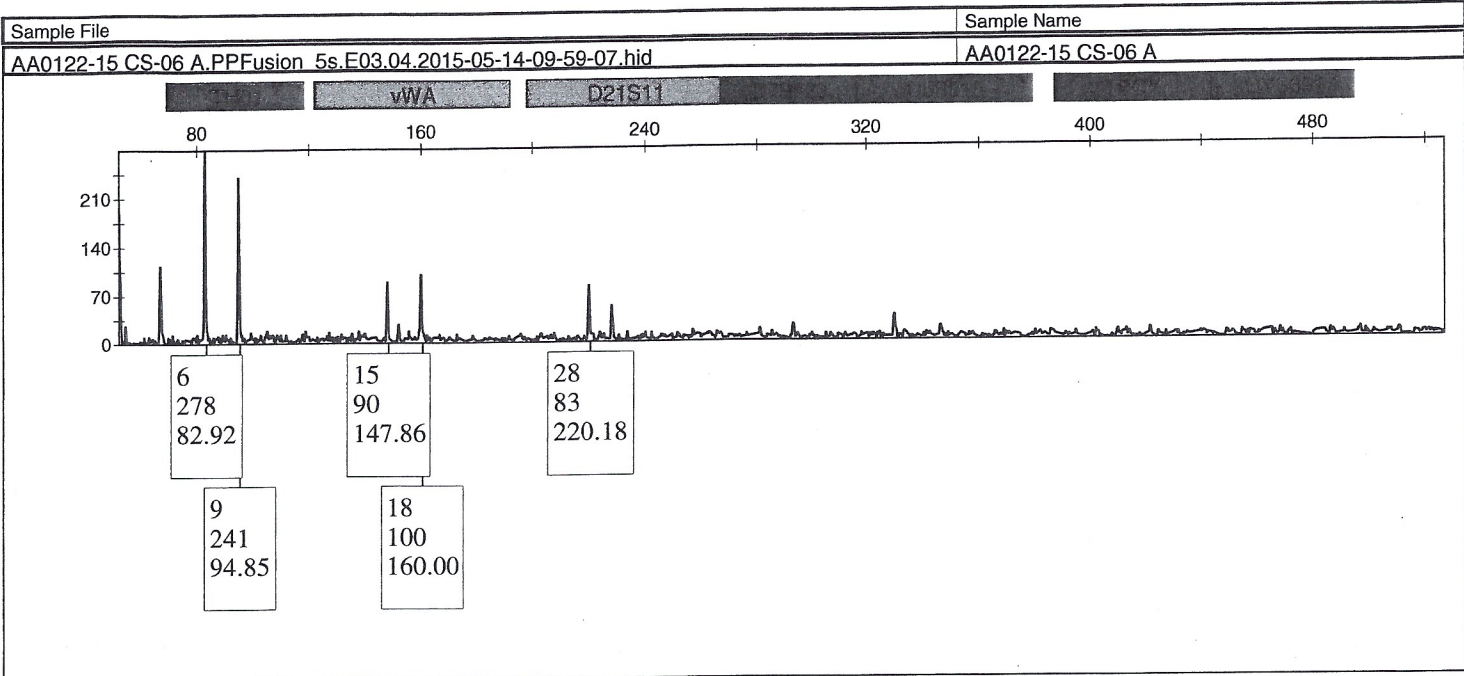
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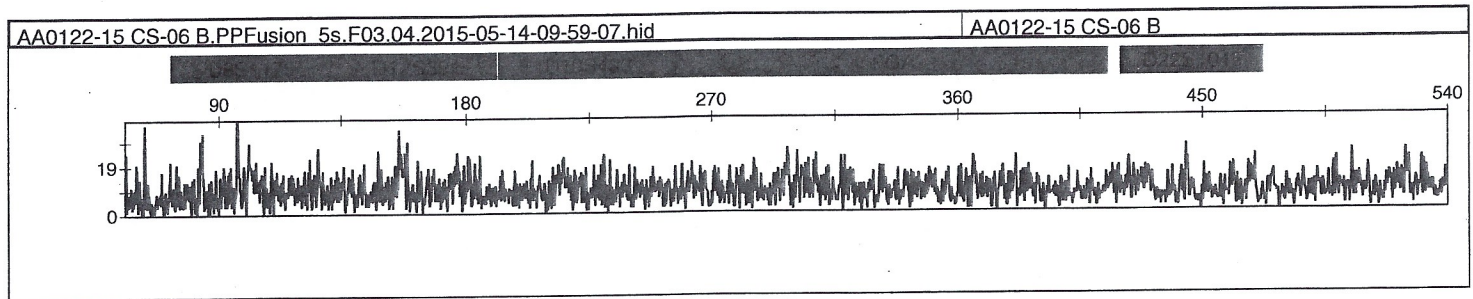
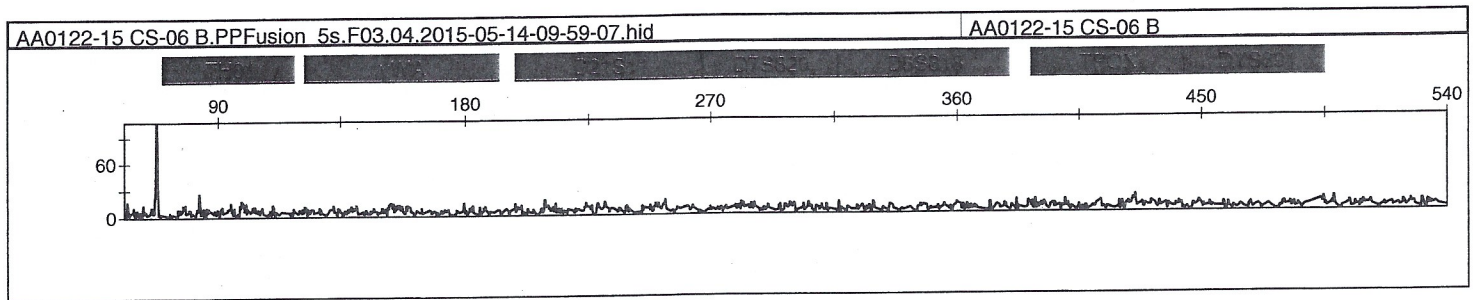
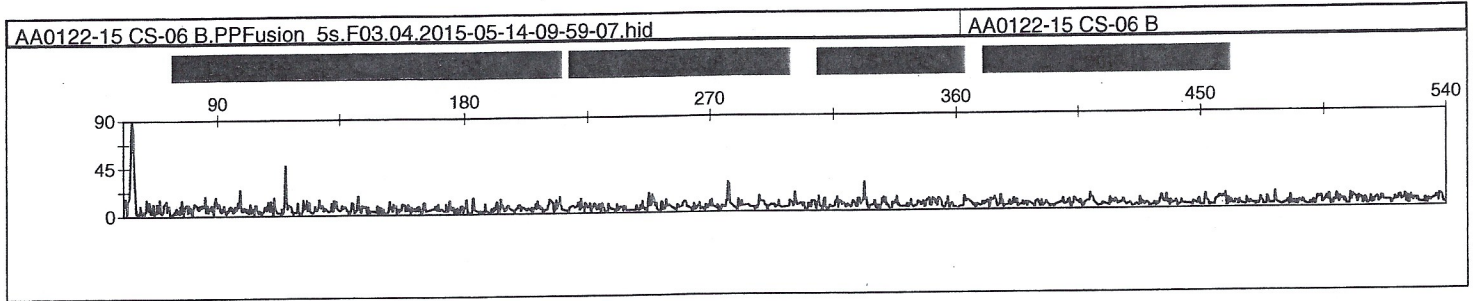
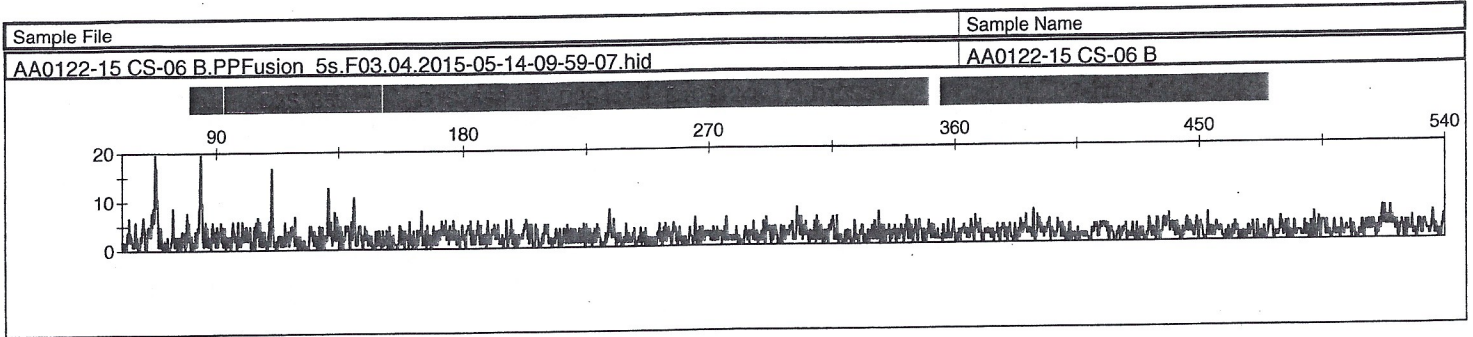
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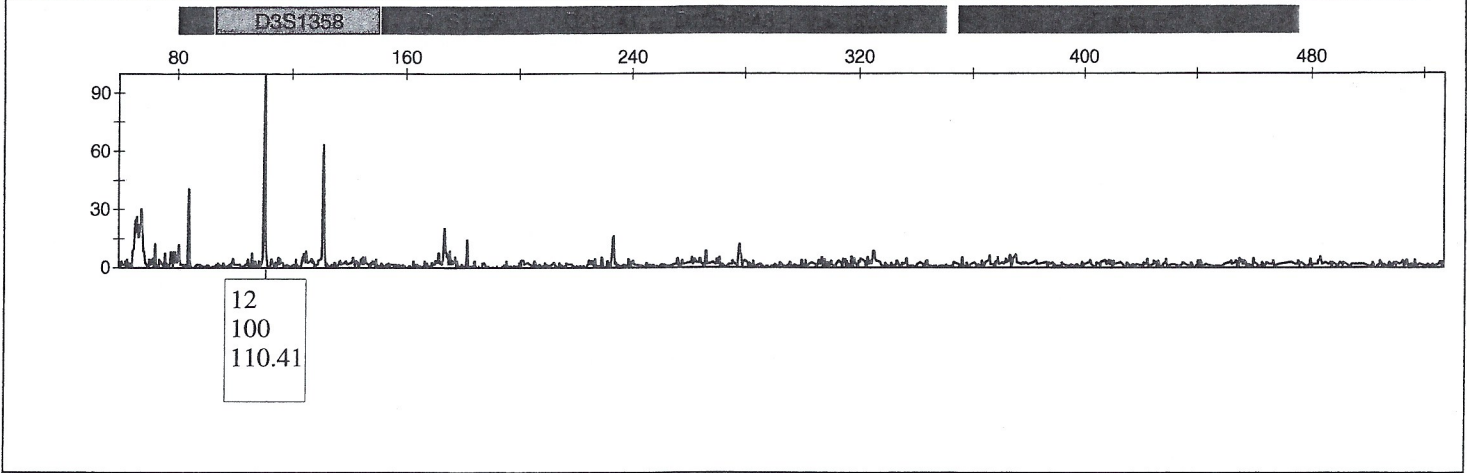


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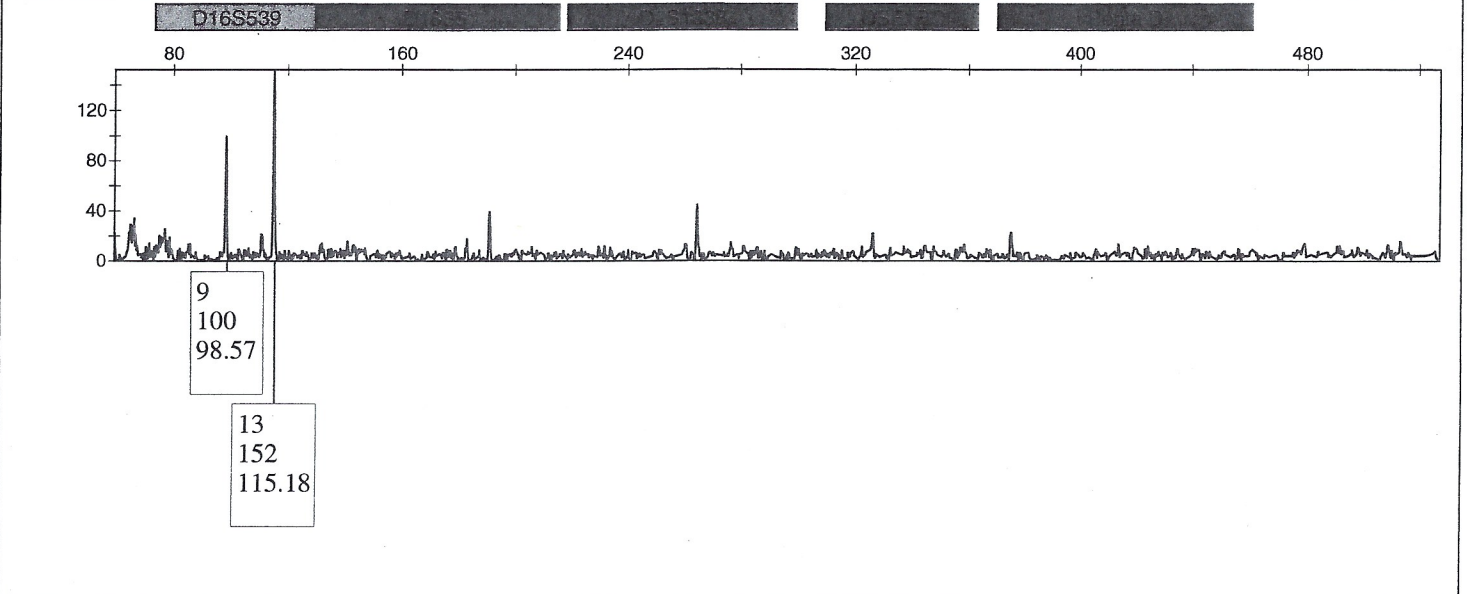


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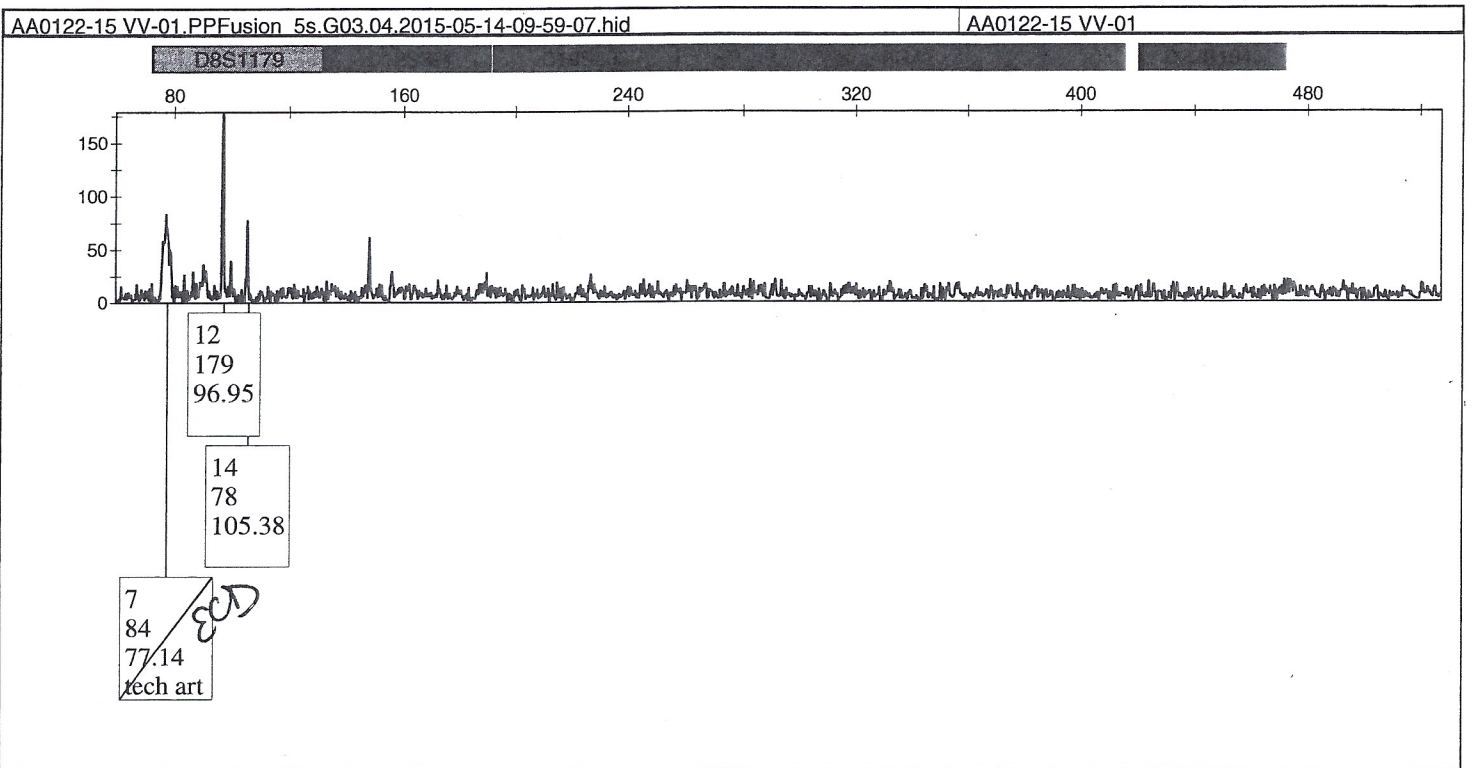
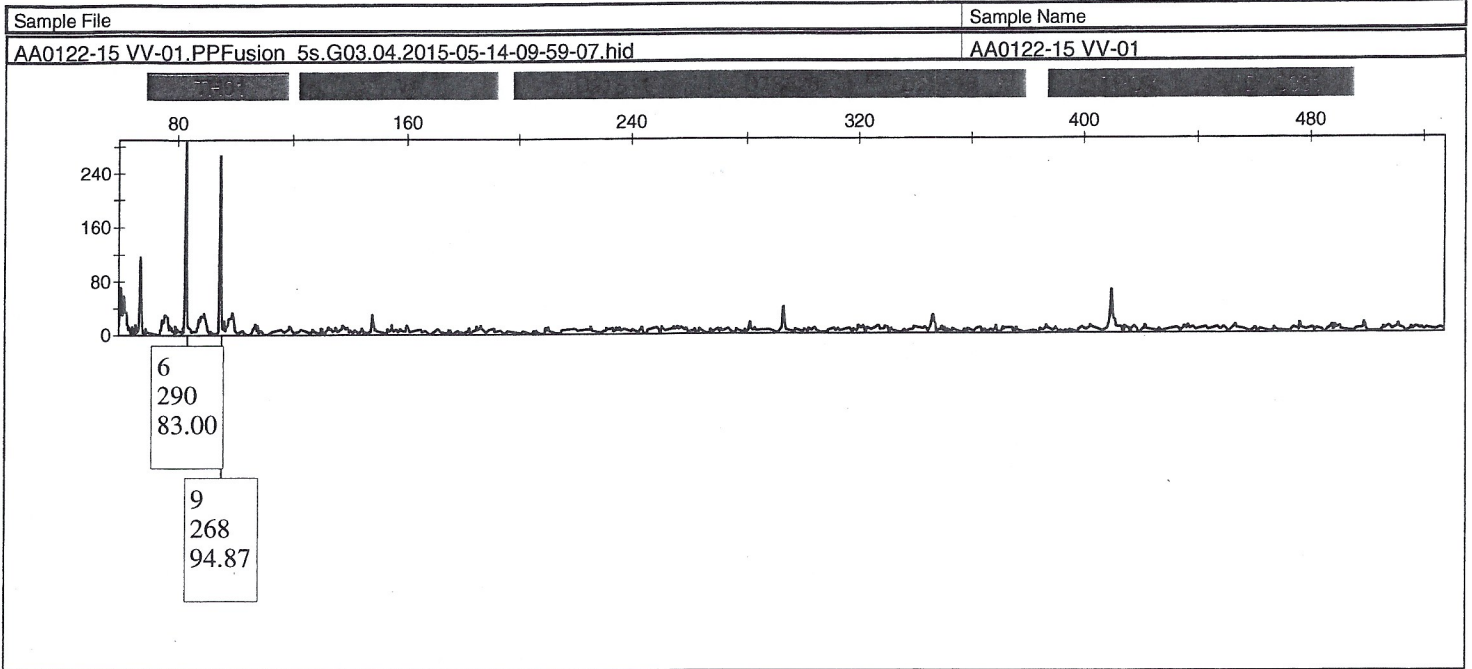
Sample File	Sample Name
AA0122-15 VV-01.PPFusion 5s.G03.04.2015-05-14-09-59-07.hid	AA0122-15 VV-01



Sample File	Sample Name
AA0122-15 VV-01.PPFusion 5s.G03.04.2015-05-14-09-59-07.hid	AA0122-15 VV-01



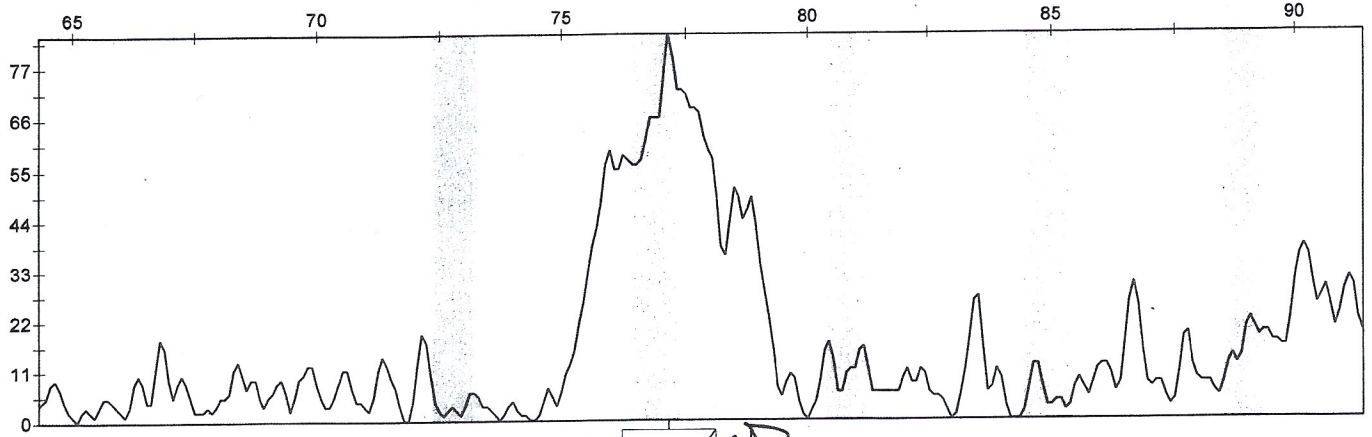
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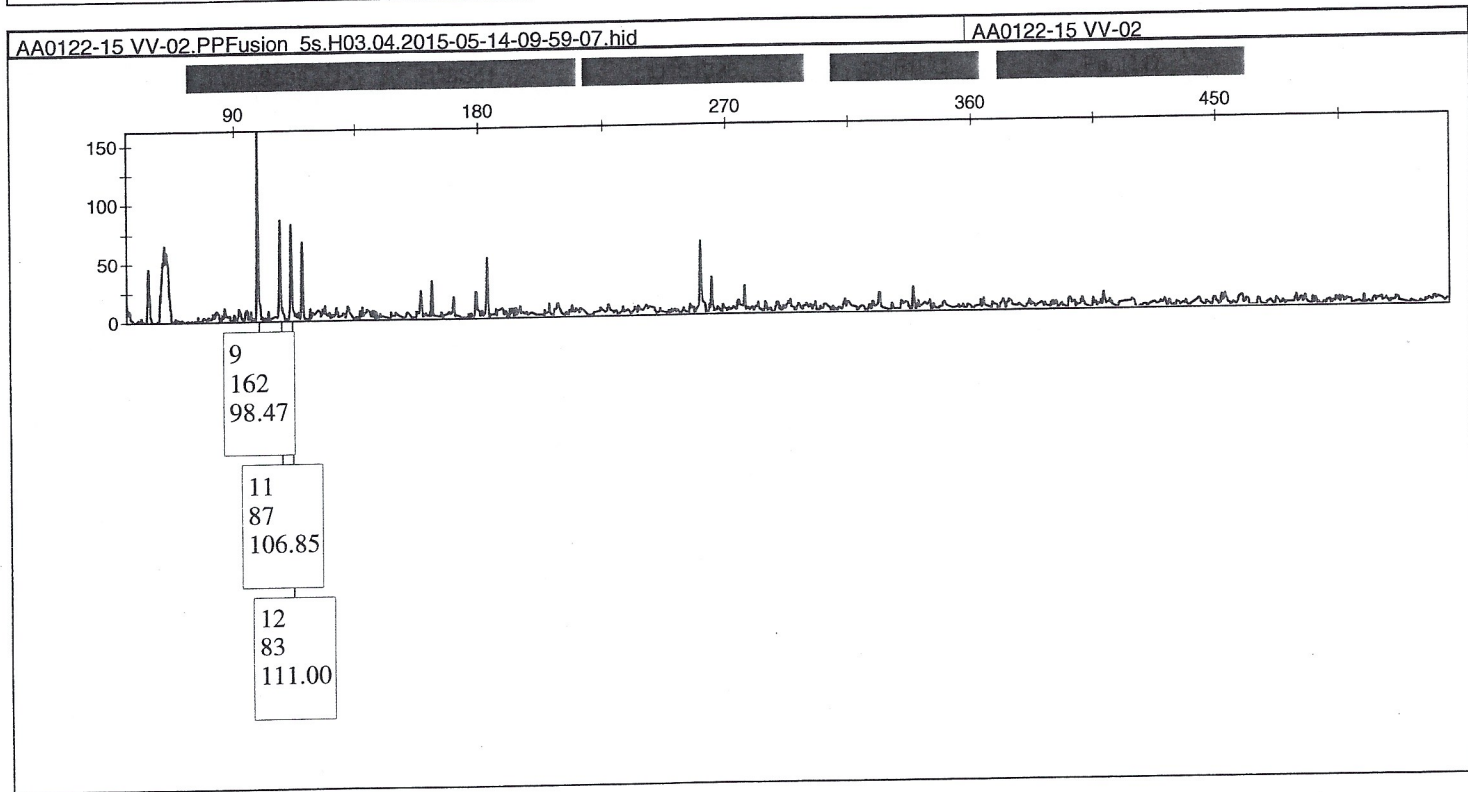
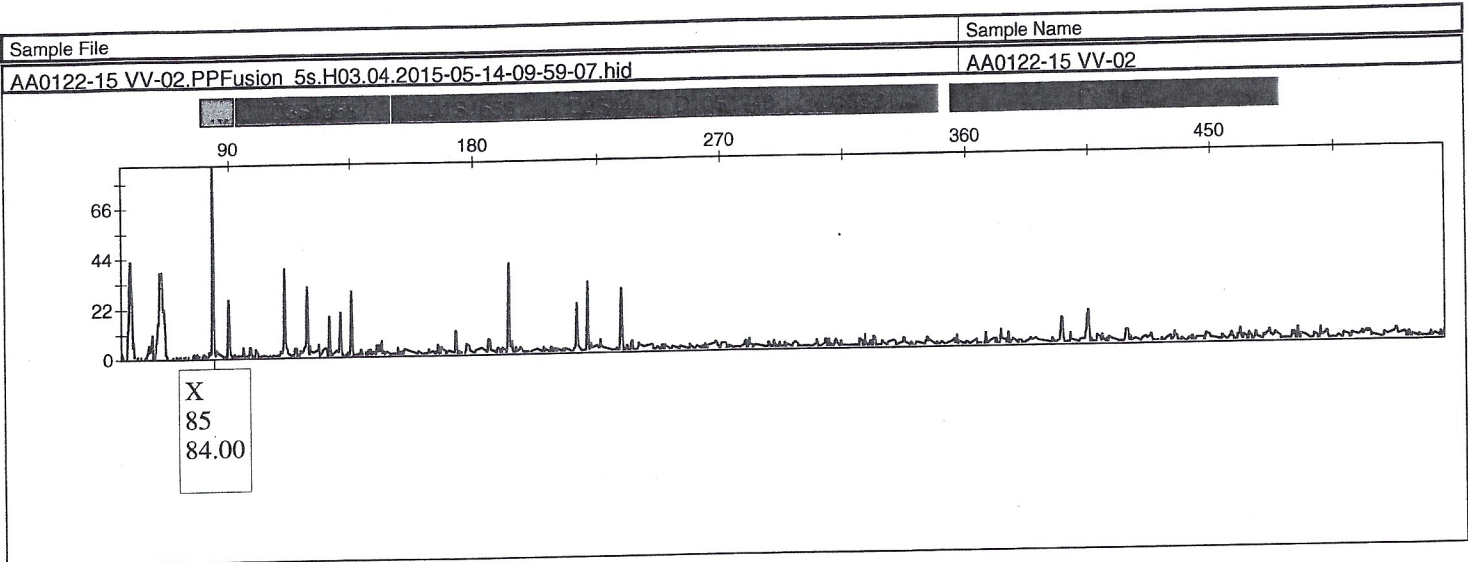
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Sample File	Sample Name
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DBS1179

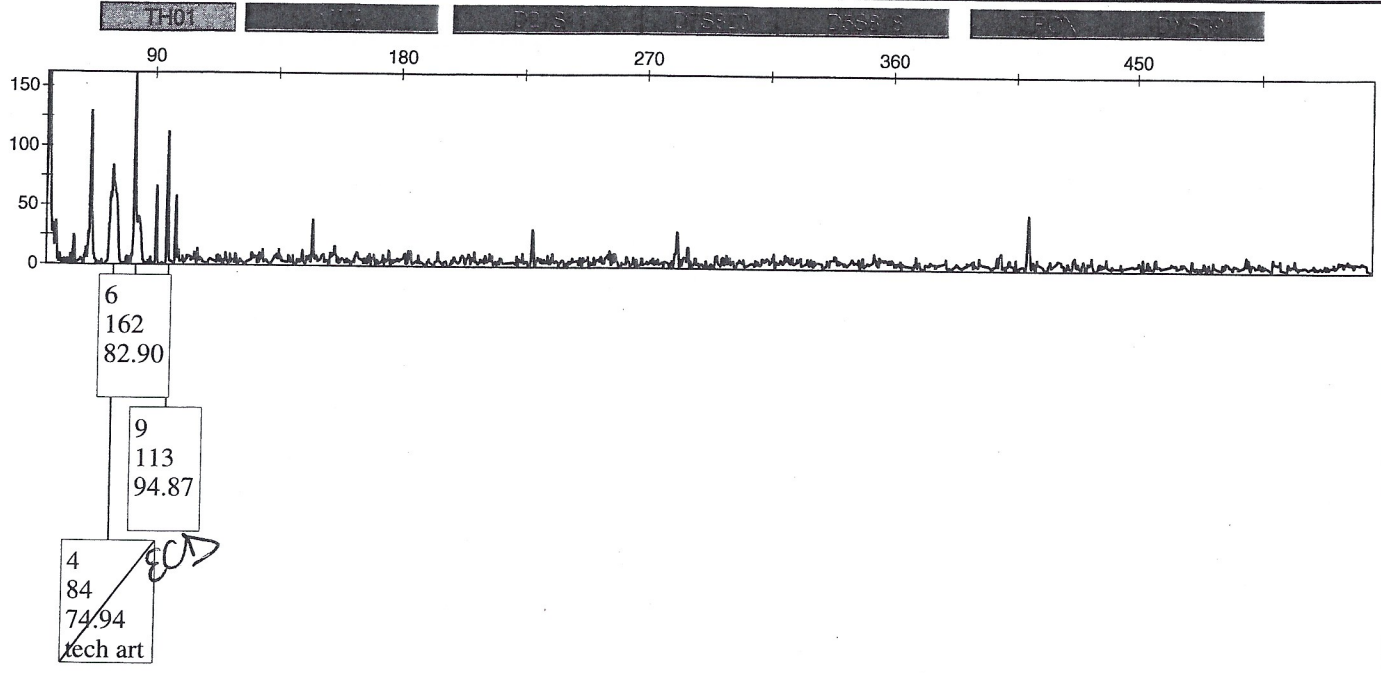


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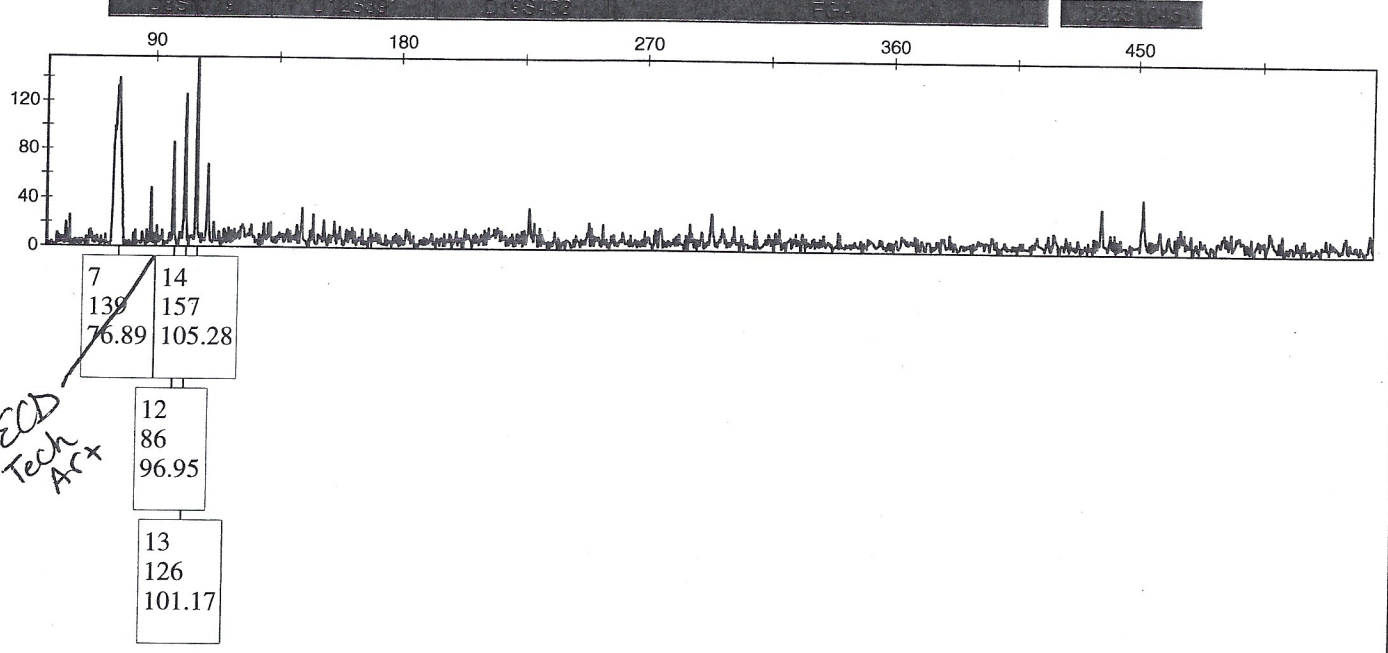


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Sample File	Sample Name
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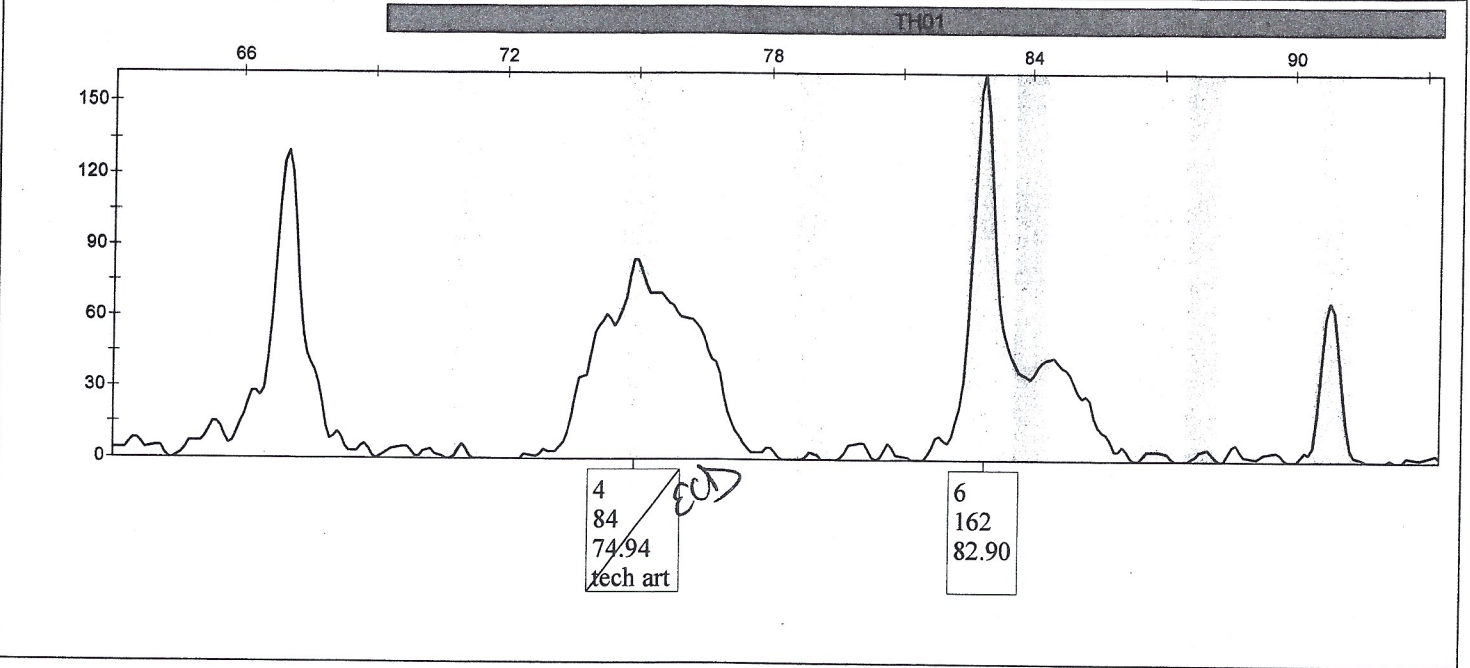


AA0122-15 VV-02.PPFusion 5s.H03.04.2015-05-14-09-59-07.hid	AA0122-15 VV-02
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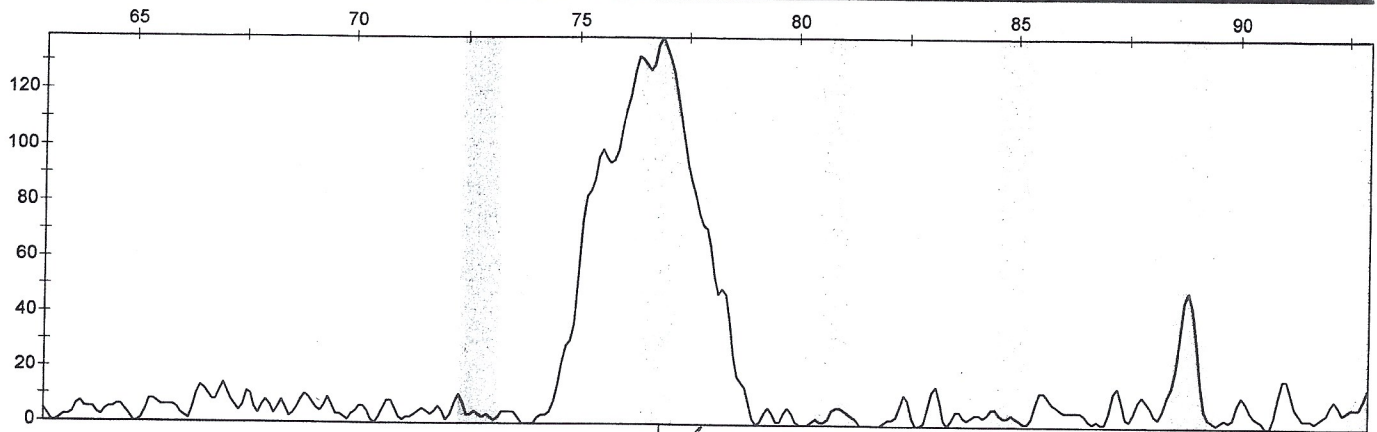
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Sample File	Sample Name
AA0122-15 VV-02.PPFusion 5s.H03.04.2015-05-14-09-59-07.hid	AA0122-15 VV-02



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Sample File	Sample Name
AA0122-15 VV-02.PPFusion_5s.H03.04.2015-05-14-09-59-07.hid	AA0122-15 VV-02

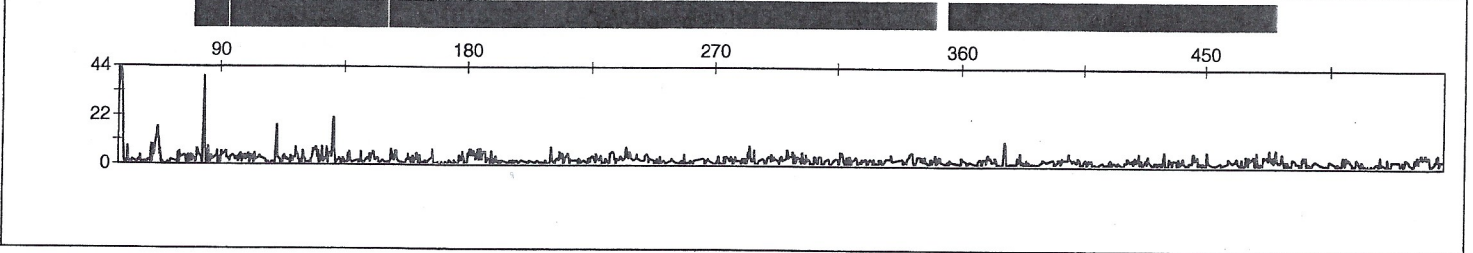


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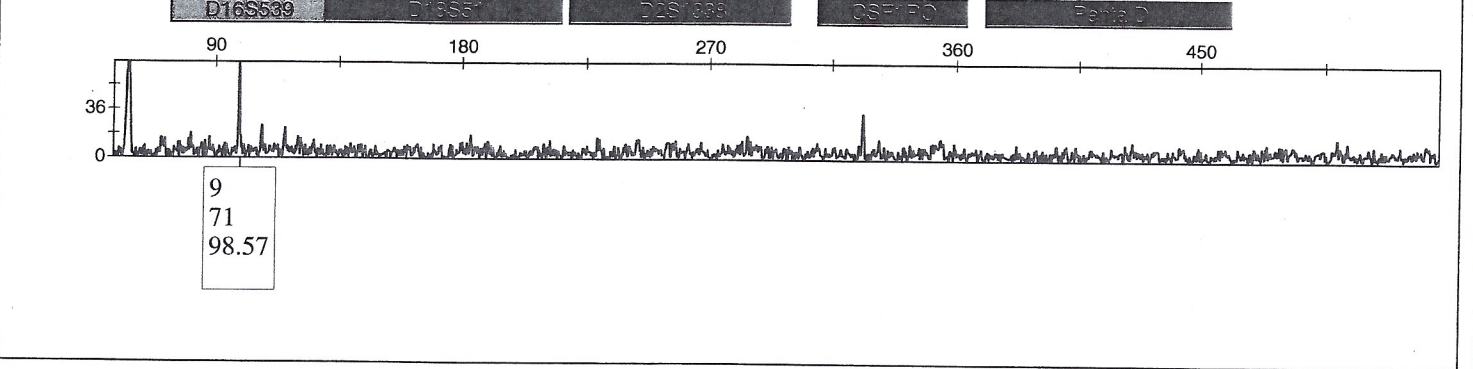
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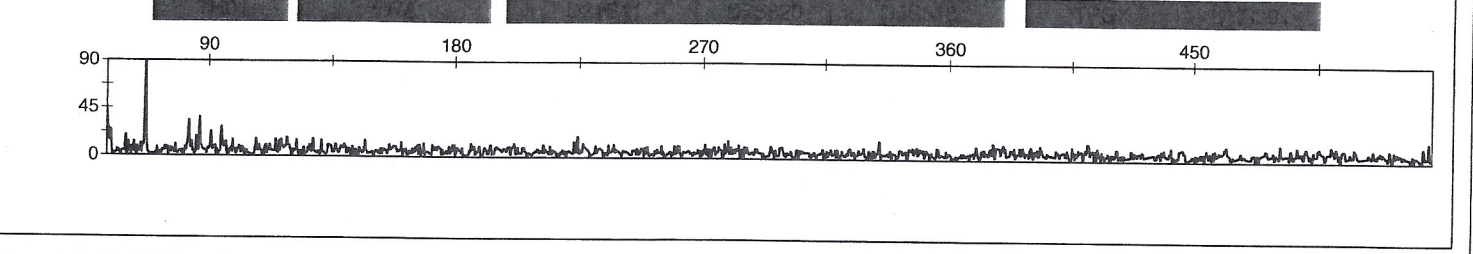
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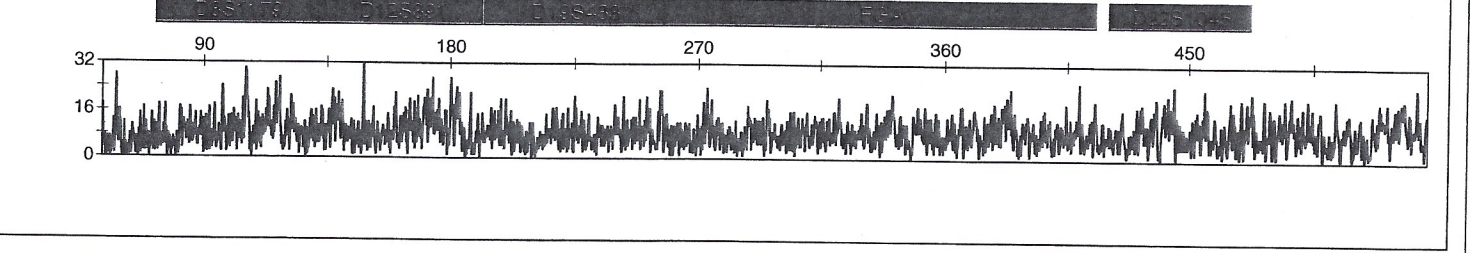
Sample File	Sample Name
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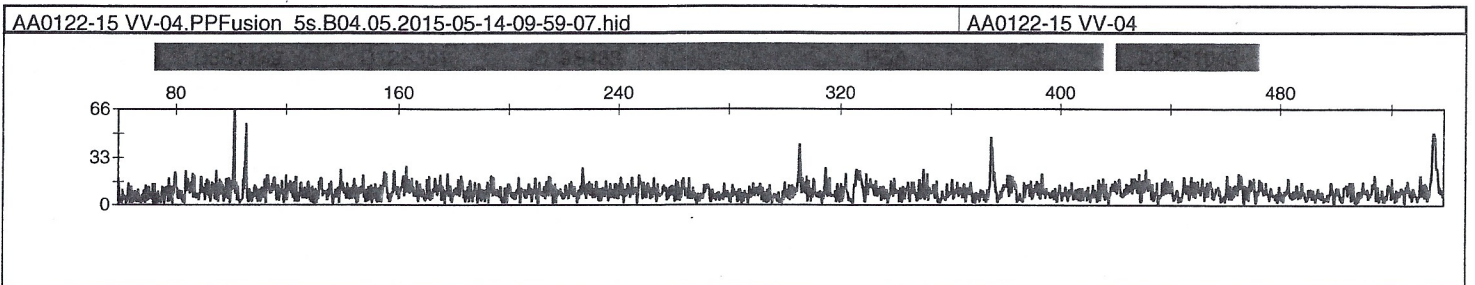
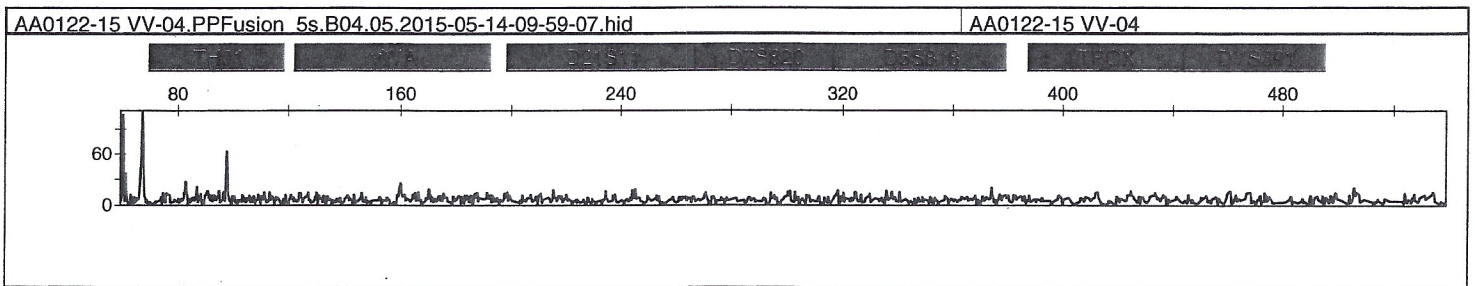
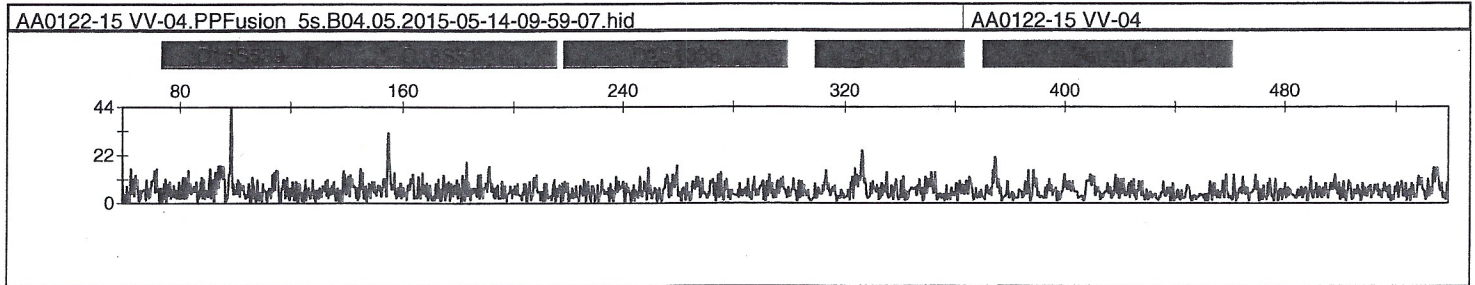
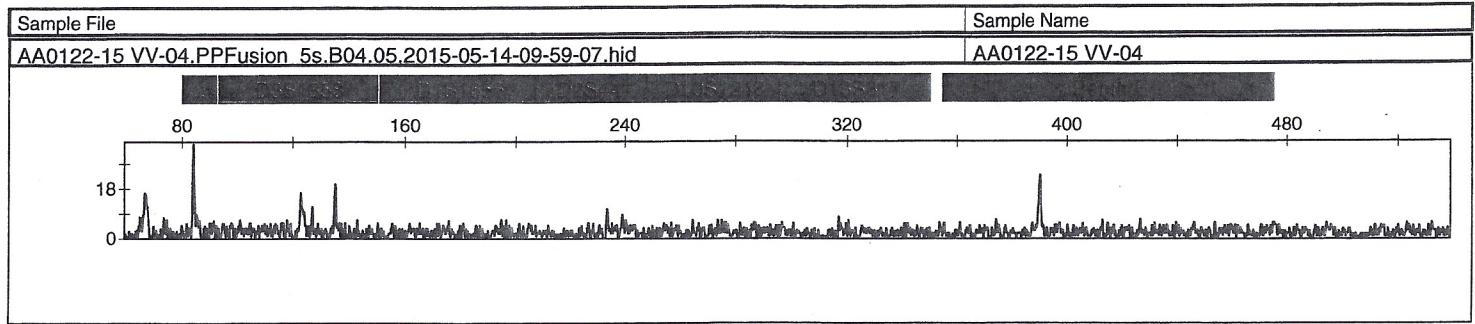
Sample File	Sample Name
AA0122-15 VV-03.PPFusion 5s.A04.05.2015-05-14-09-59-07.hid	AA0122-15 VV-03



Sample File	Sample Name
AA0122-15 VV-03.PPFusion 5s.A04.05.2015-05-14-09-59-07.hid	AA0122-15 VV-03

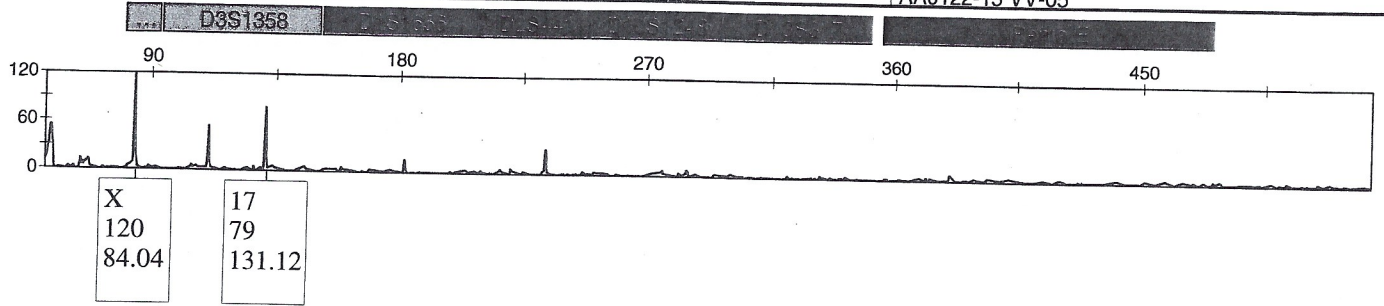


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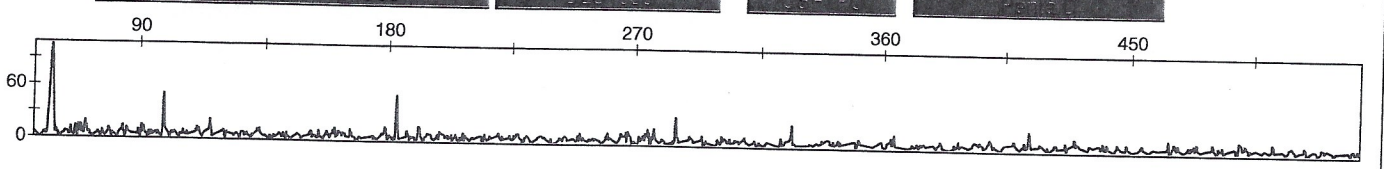


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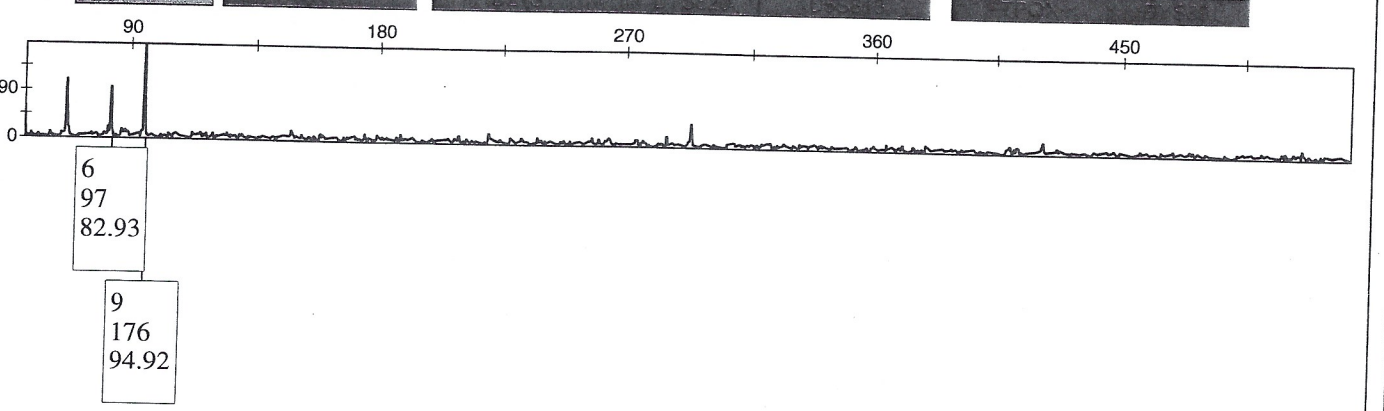
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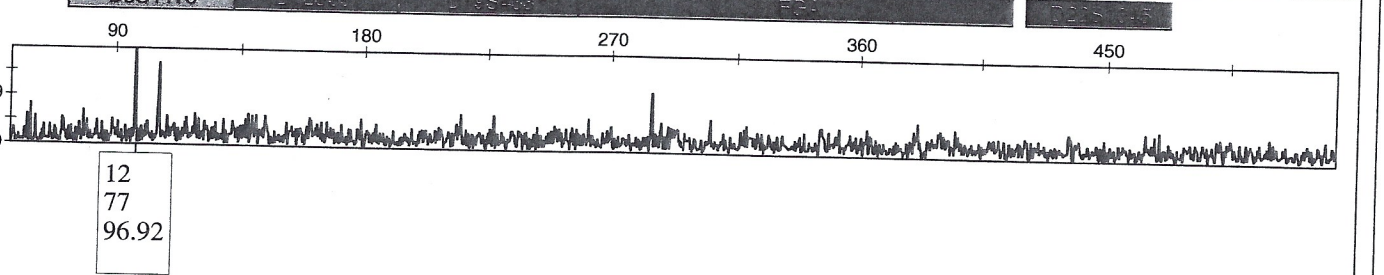
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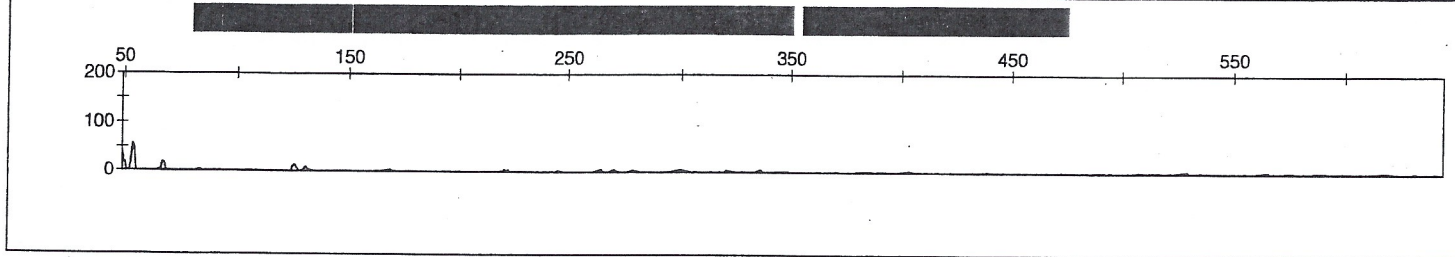
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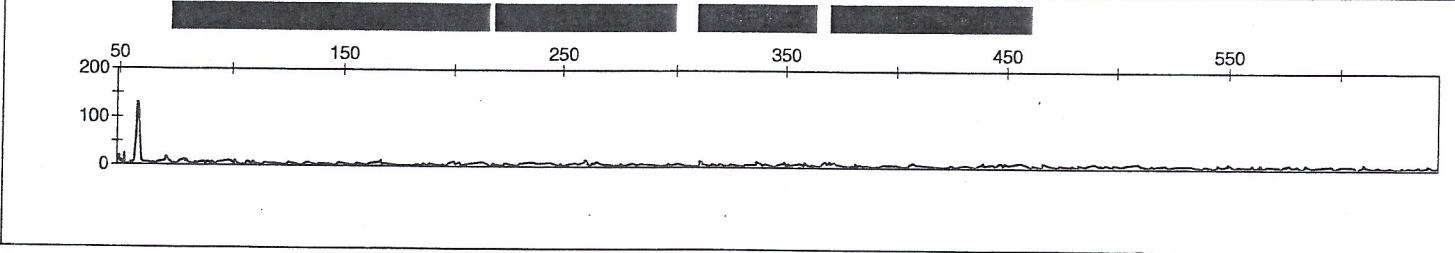
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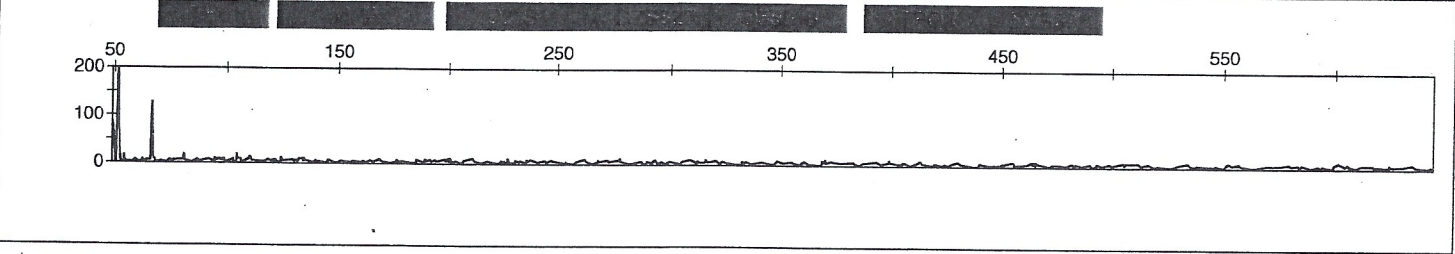
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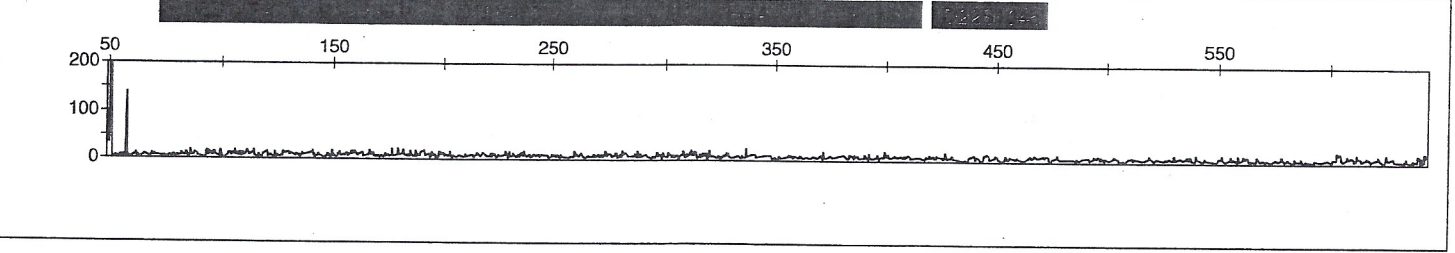
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RBQ B 051315.PPFusion 5s.D04.05.2015-05-14-09-59-07.hid	RBQ B 051315



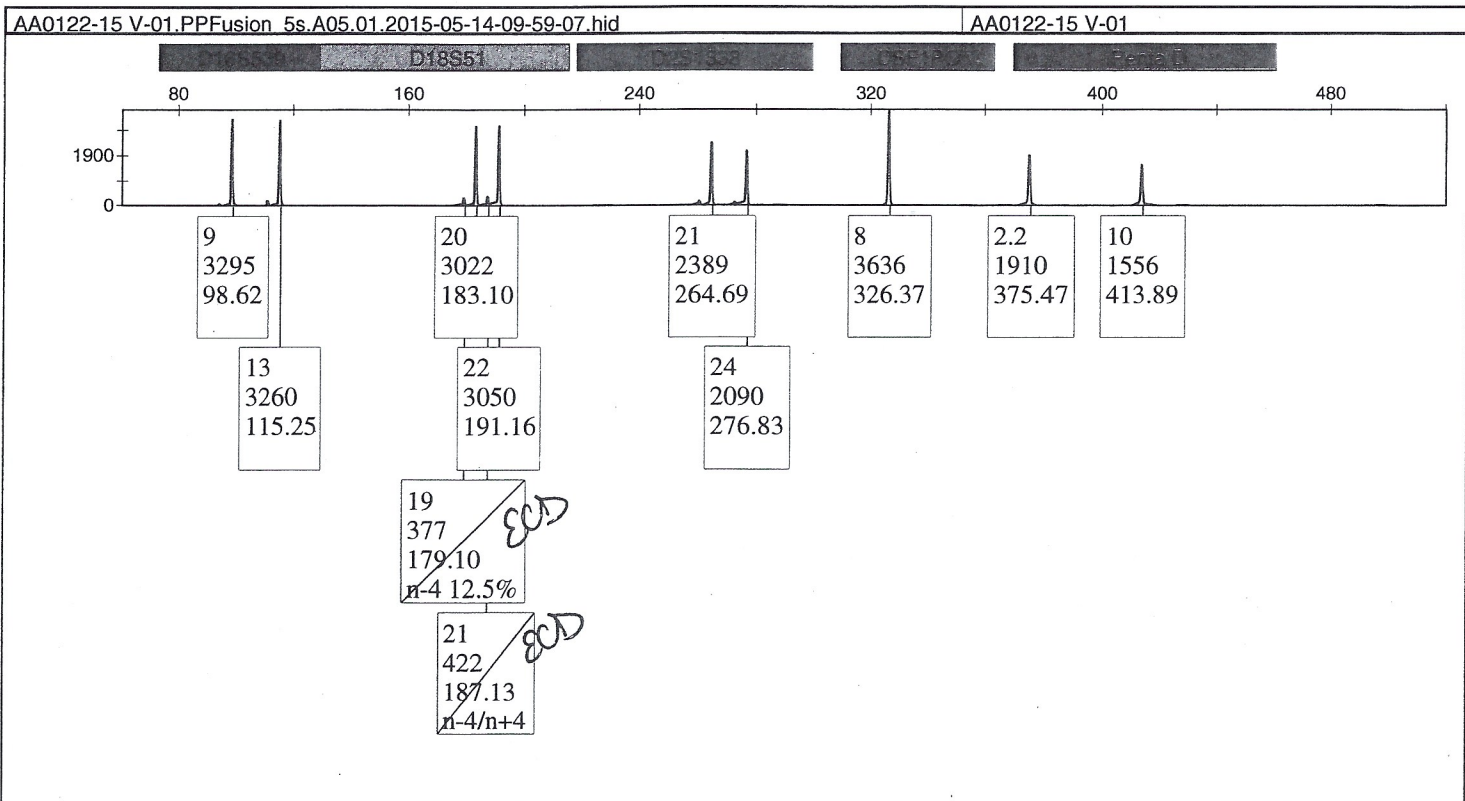
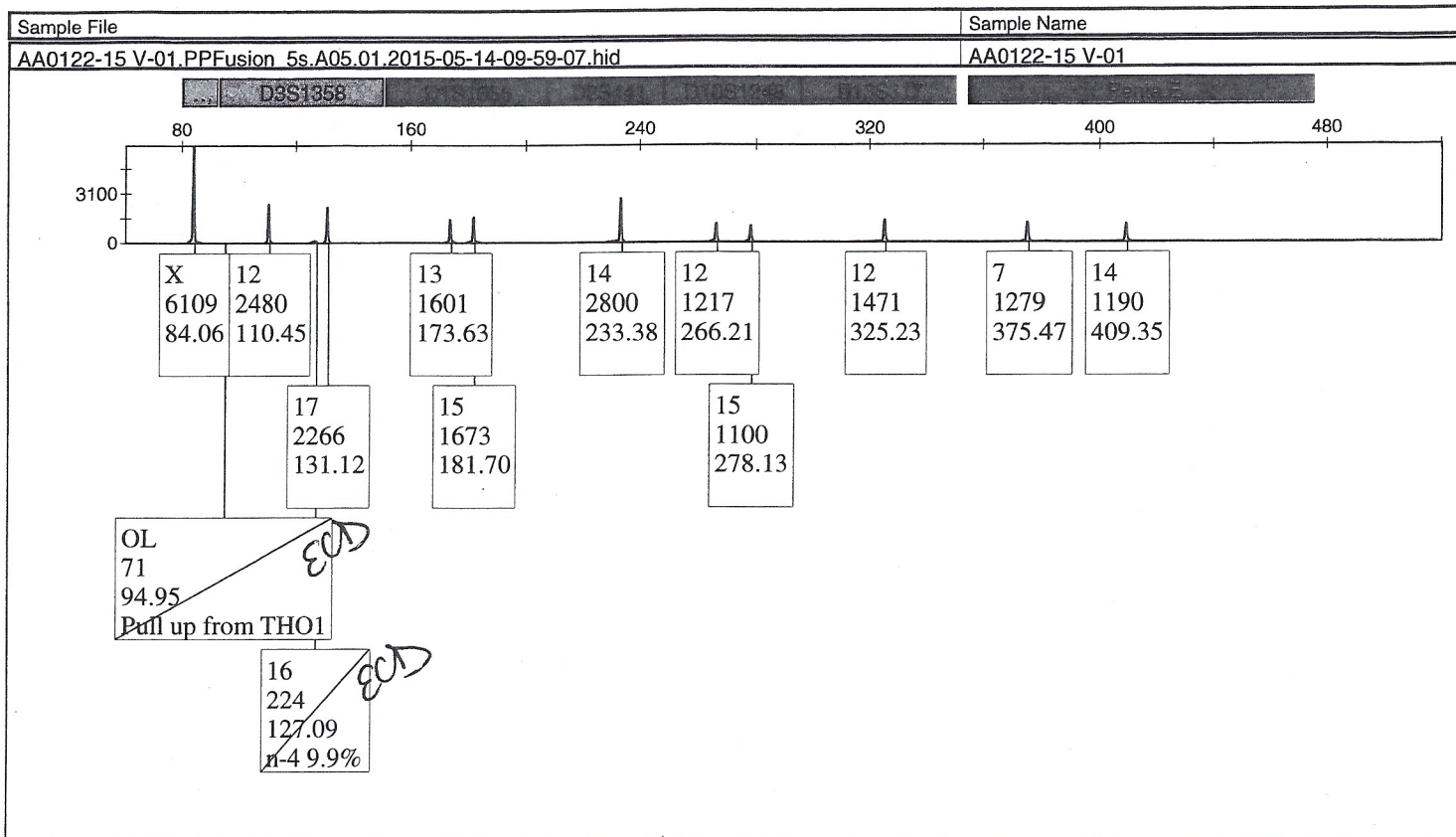
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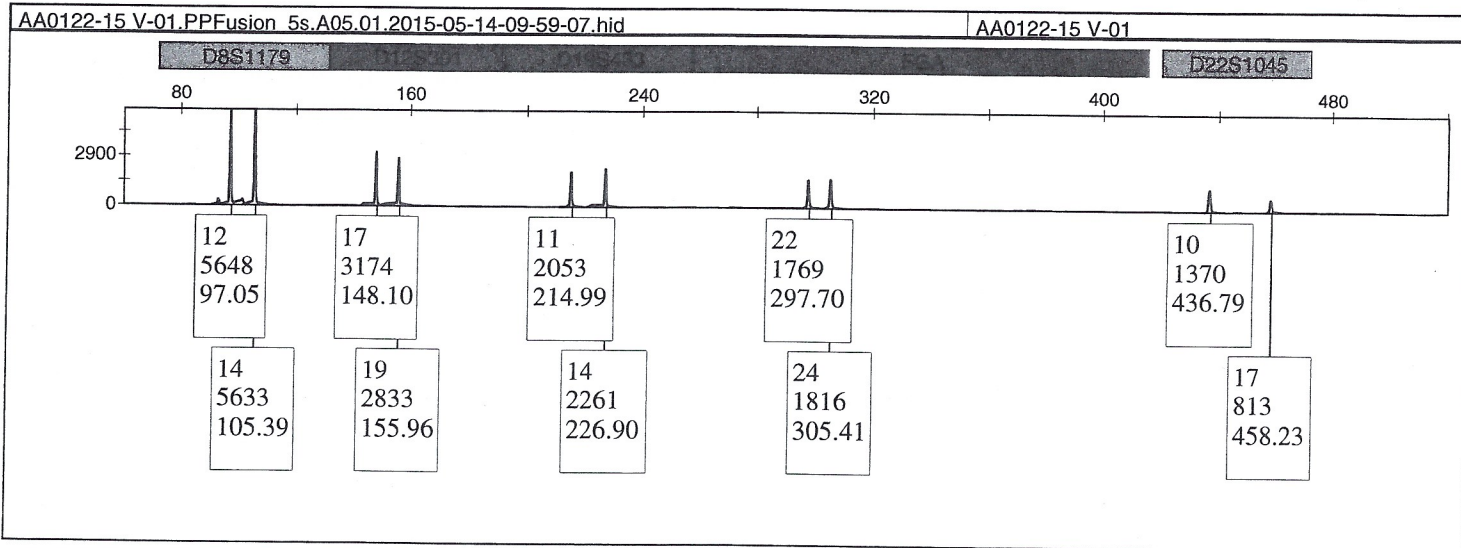
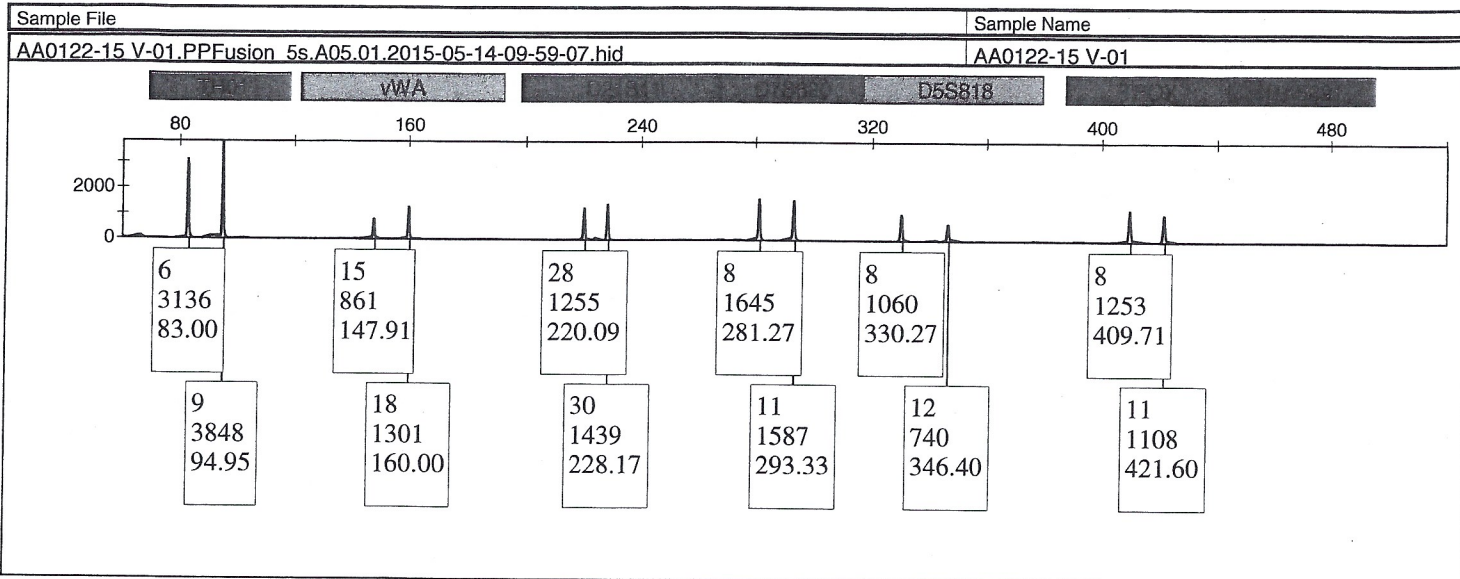
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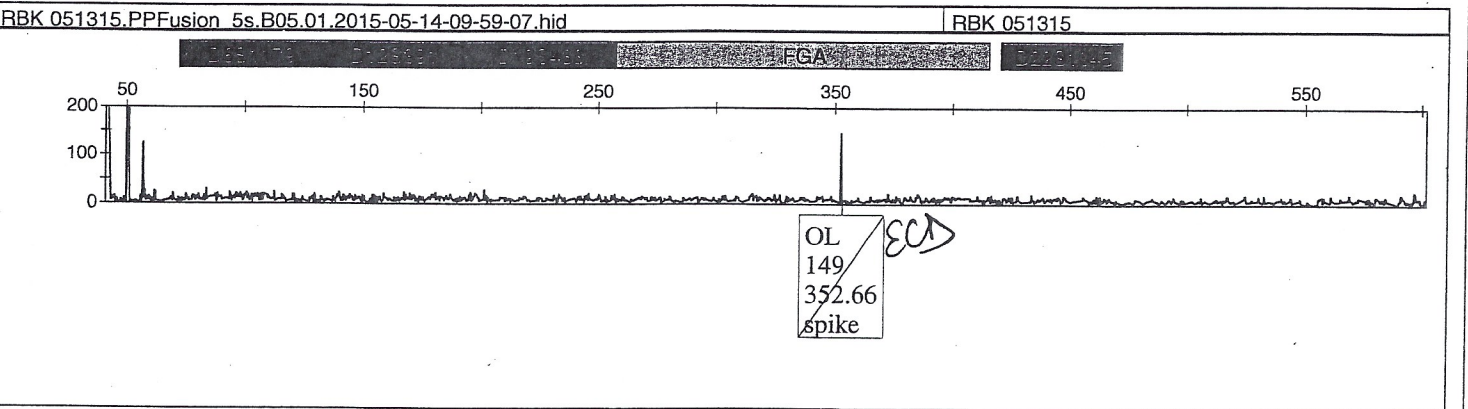
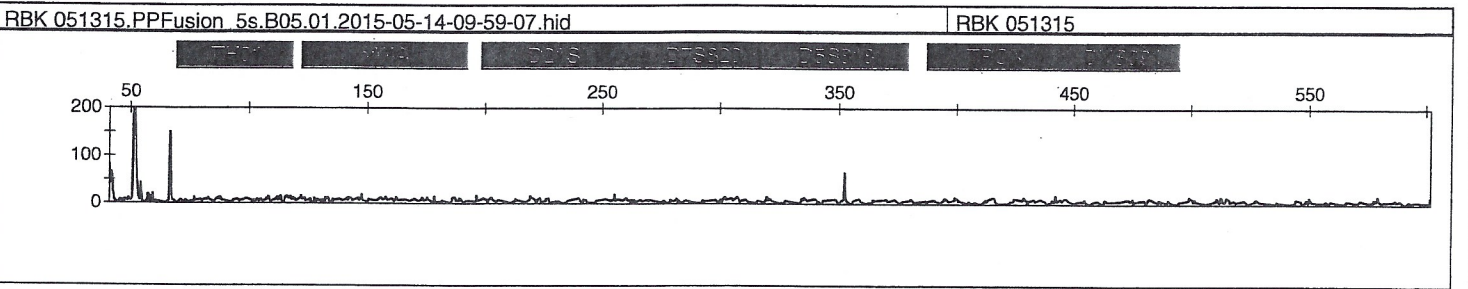
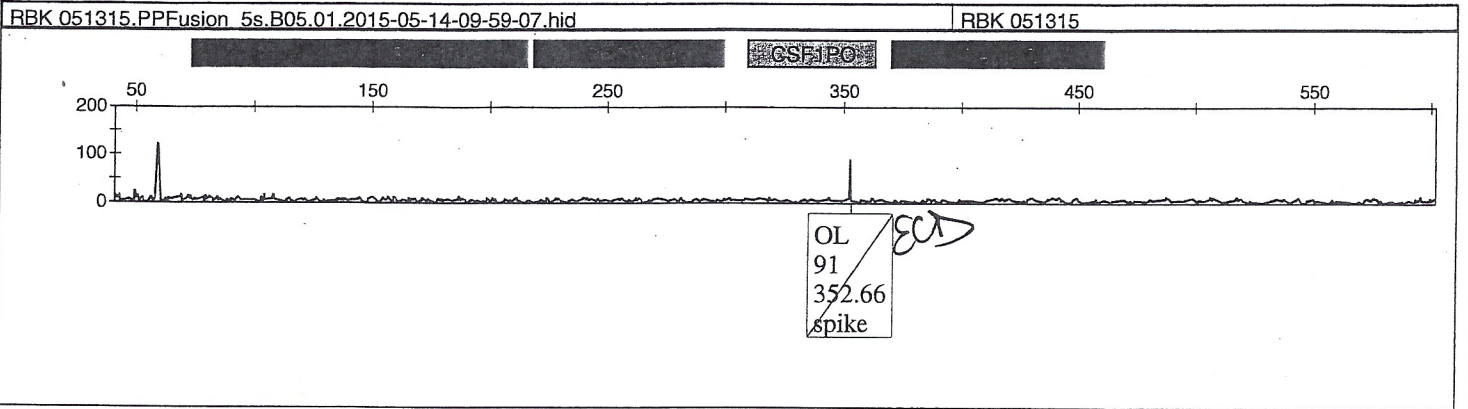
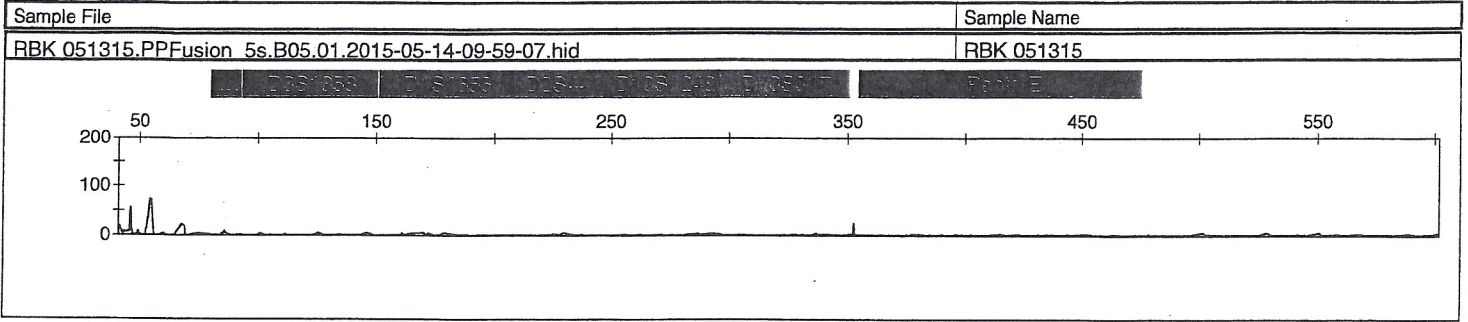
ECA



ECD



ECD



3500 Run Information Worksheet

Run date: 5-14-15

Analyst: ECD

Formamide lot: 1403040^{ECD}8

ILS & ladder kit lot: F1
(note if different kits or a dilution was used)

Additional notes:

CS-01
CS-06 A
RBQ B 051315
Amp Neg 051315
} 15s injections

Same setup as original run

Plate Grid Report

Plate Details

Plate Name: ECD 051415 reinjections
 Number of Wells: 96
 Plate Type: HID
 Polymer: POP4

Owner:
 Barcode:
 Capillary Length: 36

	1	2	3	4	5	6	7	8	9	10	11
A											
B		H AA0105-15.1A.H	H AA0122-15.CS.01		H Amp Pos 051315						
C					H Amp Neg 051315						
D					H Ladder						
E			H AA0122-15.CS.06A								
F		H R8Q.051315									
G											
H	H AA0105-15.1A.G										

Legend

- H Plate : HID
- Assay : PPFusion_5s

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Plate Grid Report

	1	2	3	4	5	6	7	8	9	10	11
A											
B		H AA0105-151AH	H AA0122-15 CS-01		H Amp Pos 051315						
C					H Amp Neg 051315						
D				H R8Q.051315	H Amp Neg 051315						
E			H AA0122-15 CS-06A		H Ladder						
F		H R8Q.051315									
G											
H	H AA0105-151AG										

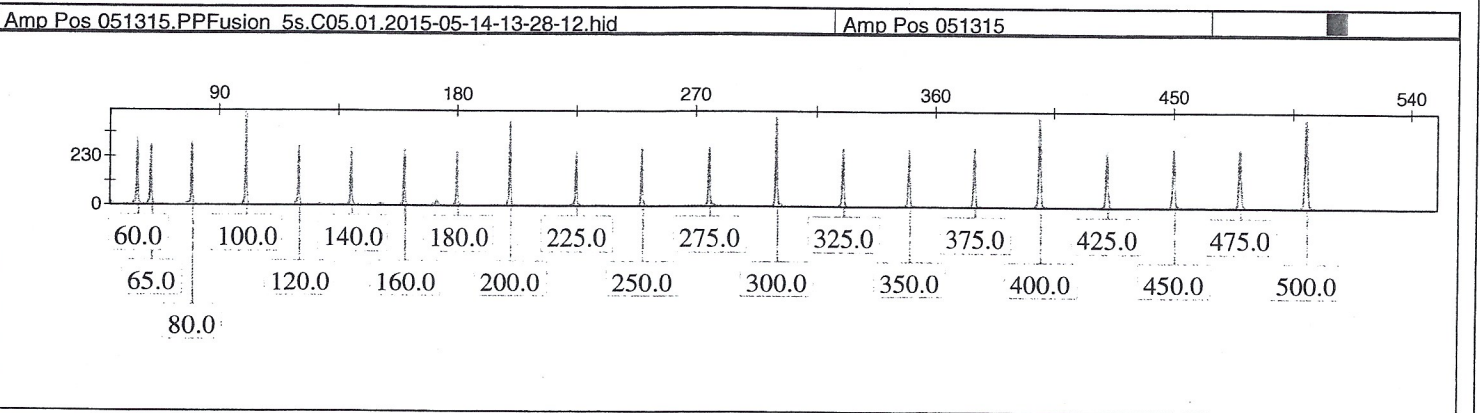
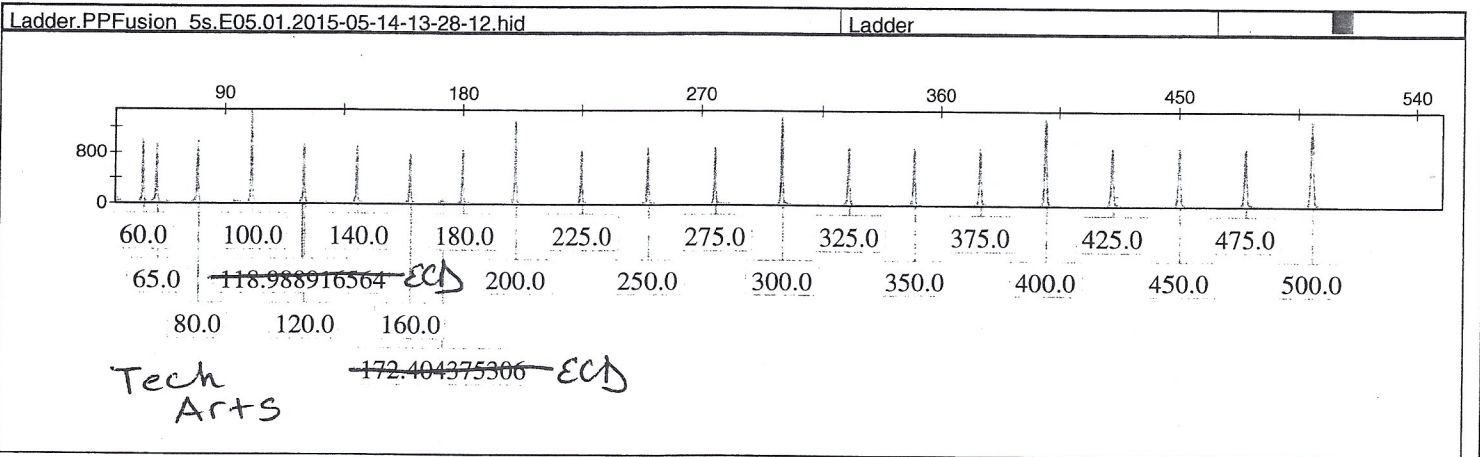
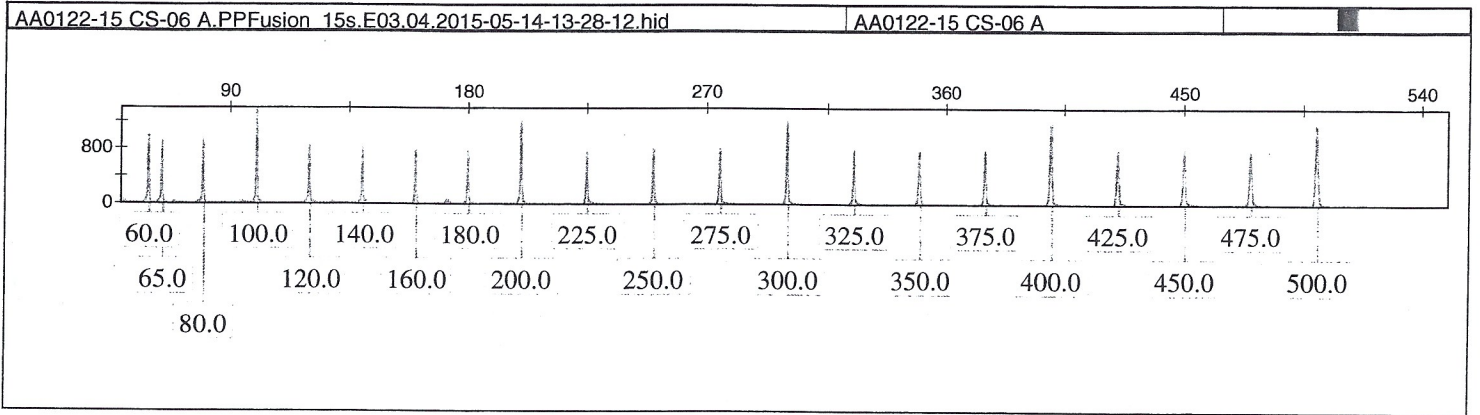
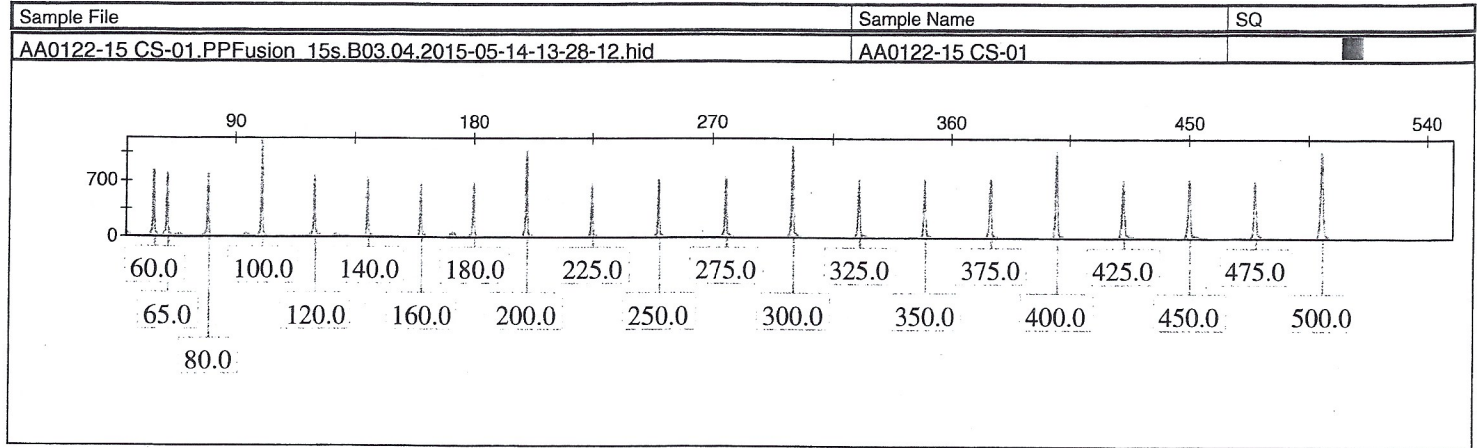
Assay : PPFusion_15S
 Assay : PPFusion_10S

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Status	Sample Name	Sample Type	Analysis Method	Panel	Size Standard	SQ
	AA0105-15 1A G	Sample	Fusion 10s 80rfu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
	AA0105-15 1A H	Sample	Fusion 15s 100rfu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
	AA0122-15 CS-01	Sample	Fusion 15s 100rfu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
	AA0122-15 CS-06 A	Sample	Fusion 15s 100rfu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
	Amp Neg 051315	Sample	Fusion 15s 100rfu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
	Amp Pos 051315	Positive Control	Fusion 5s 70rfu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
	Ladder	Allelic Ladder	Fusion 5s 70rfu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
	RBQ A 051315	Sample	Fusion 15s 100rfu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■
	RBQ B 051315	Sample	Fusion 15s 100rfu	PowerPlex Fusion Panels IDX v1.0 AA stutter	ILS 500 Fusion	■

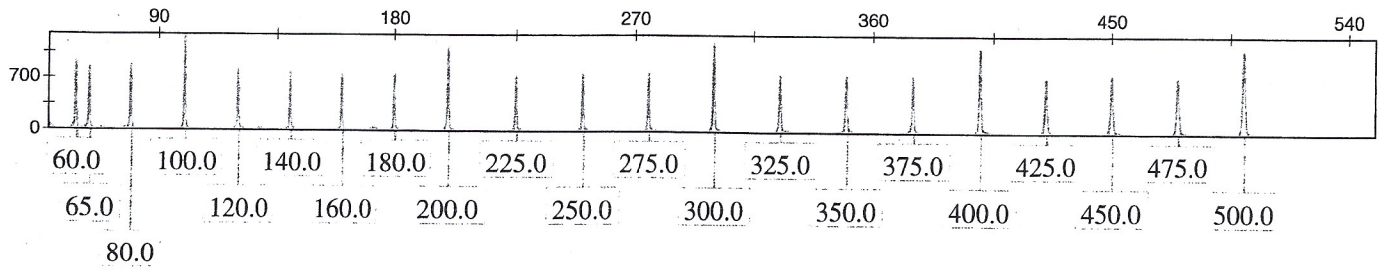
ASB

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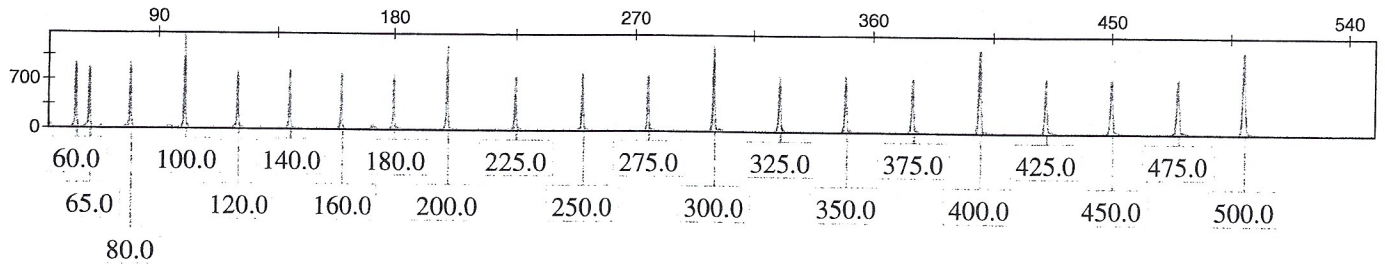


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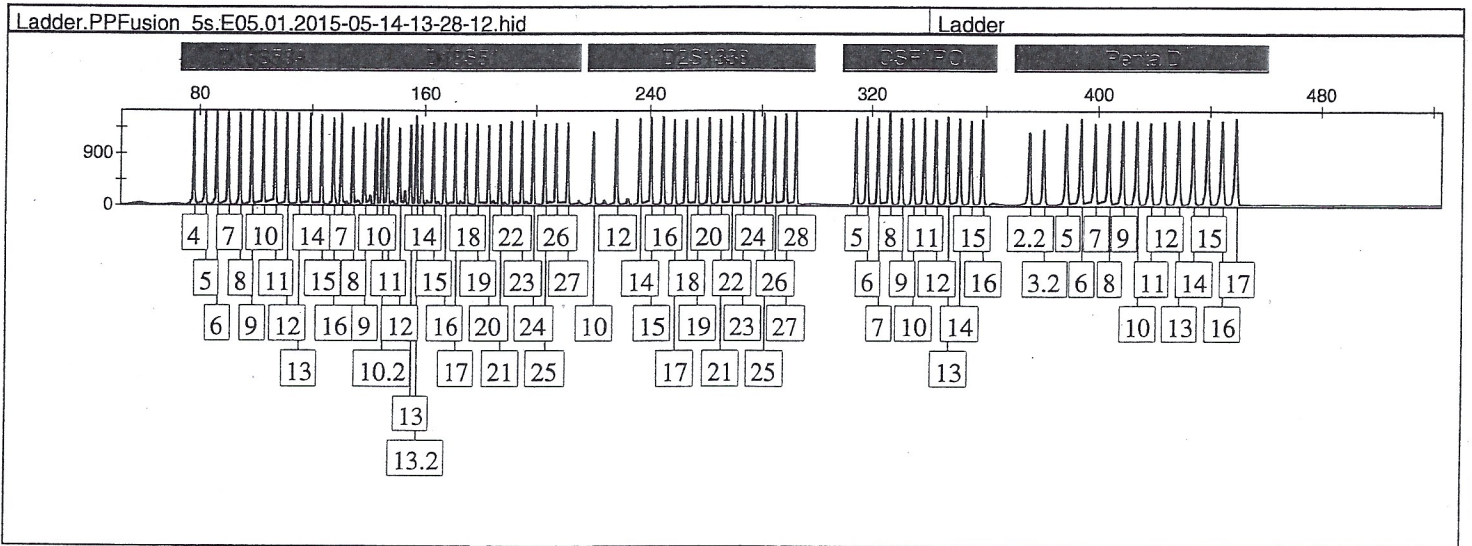
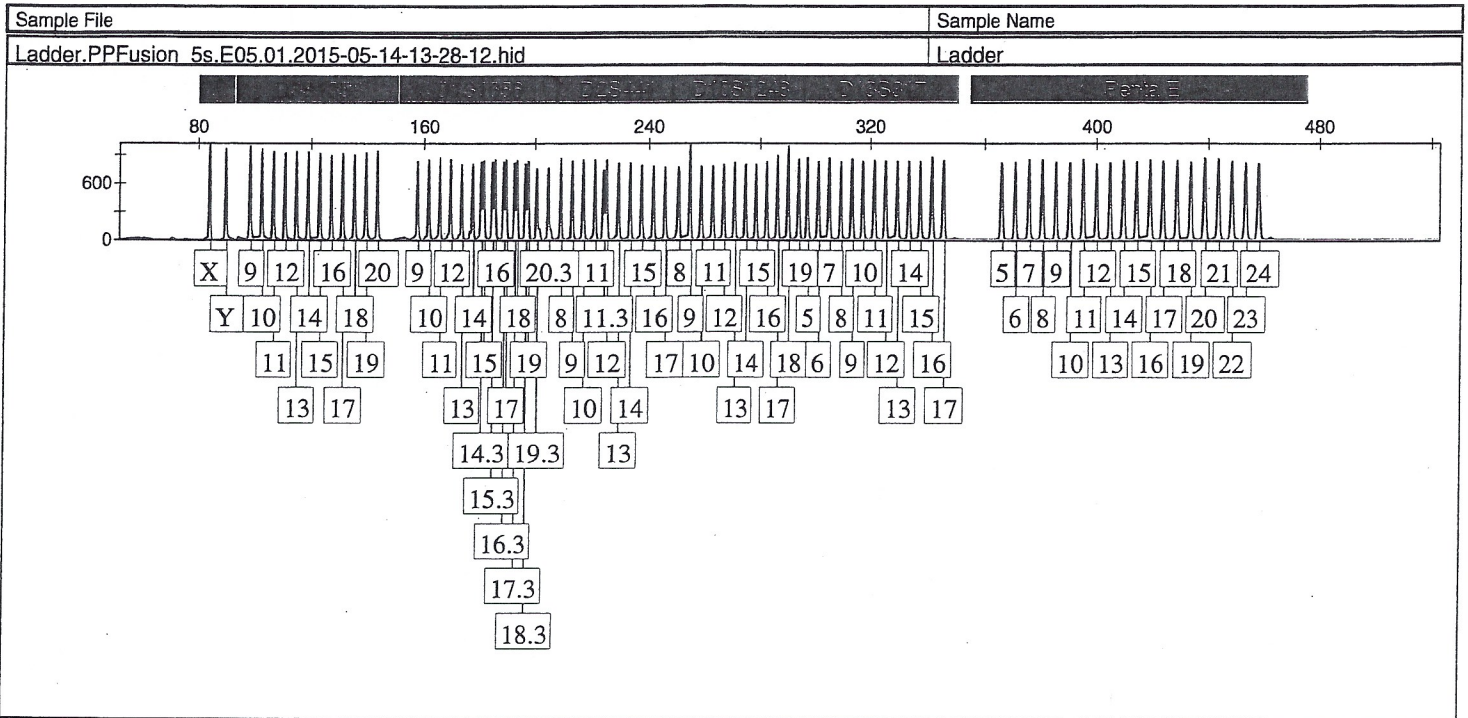
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Amp Neg 051315.PPFusion 15s.D05.06.2015-05-14-13-28-12.hid	Amp Neg 051315	



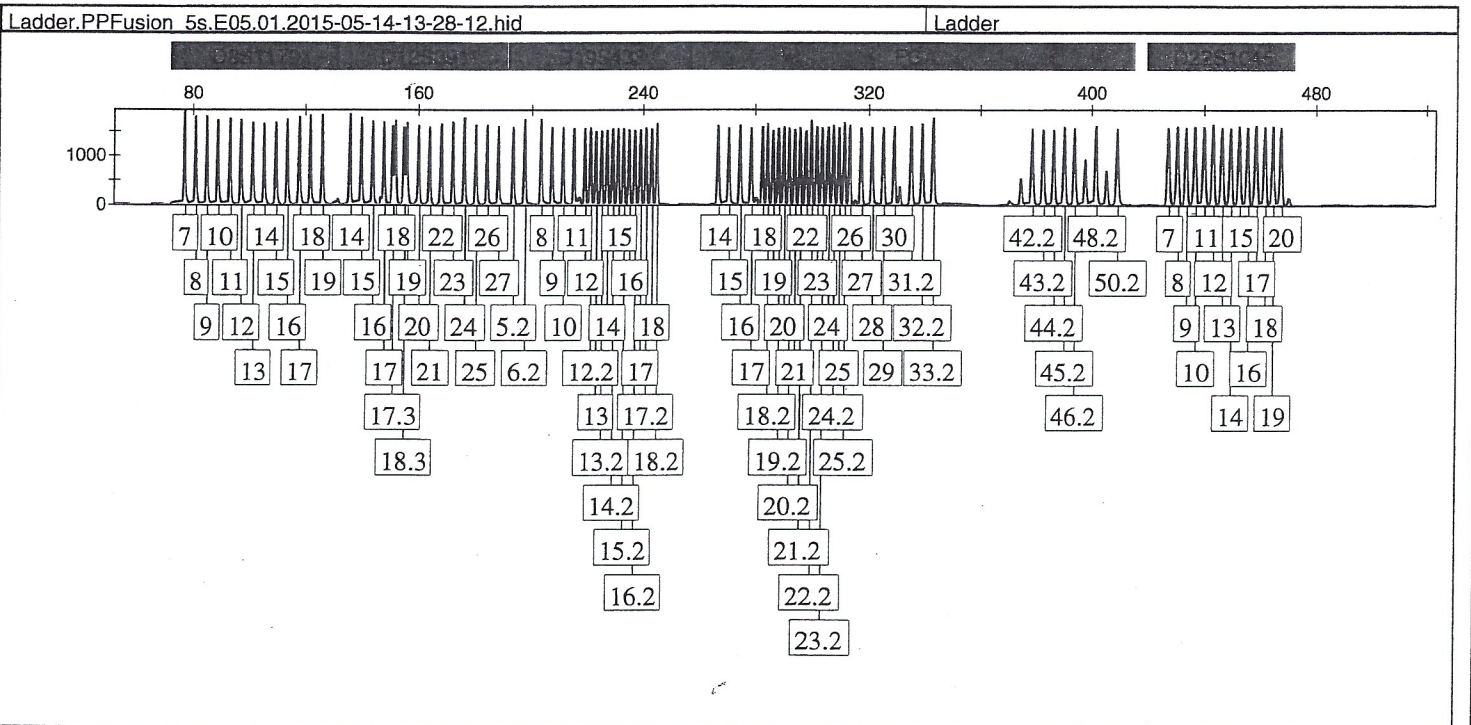
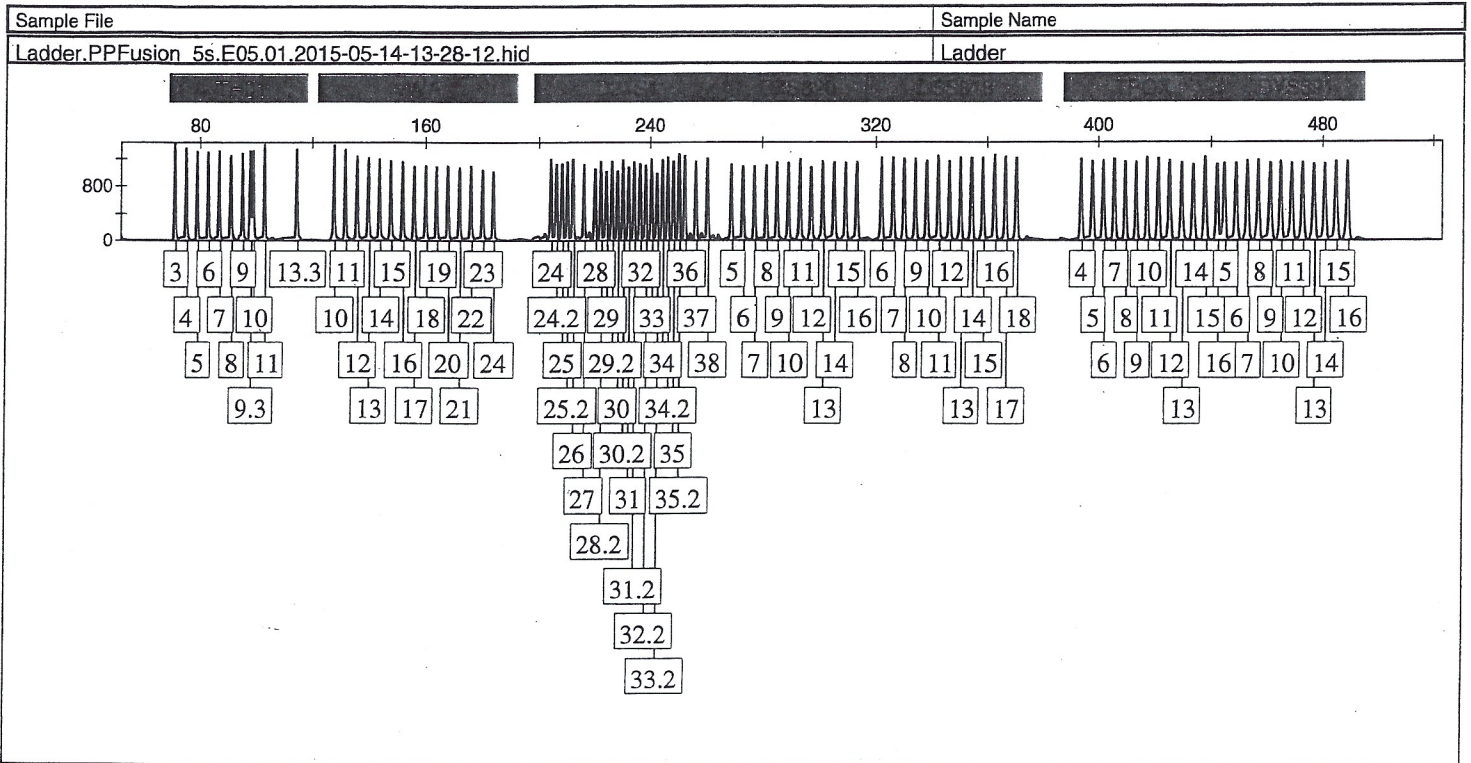
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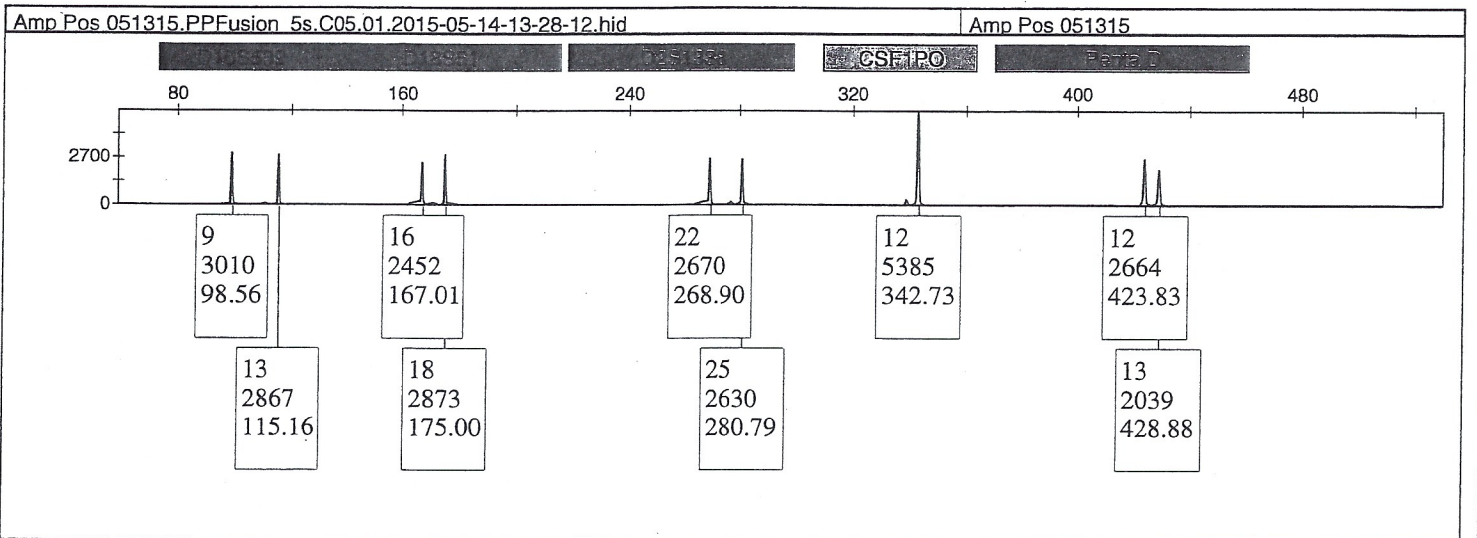
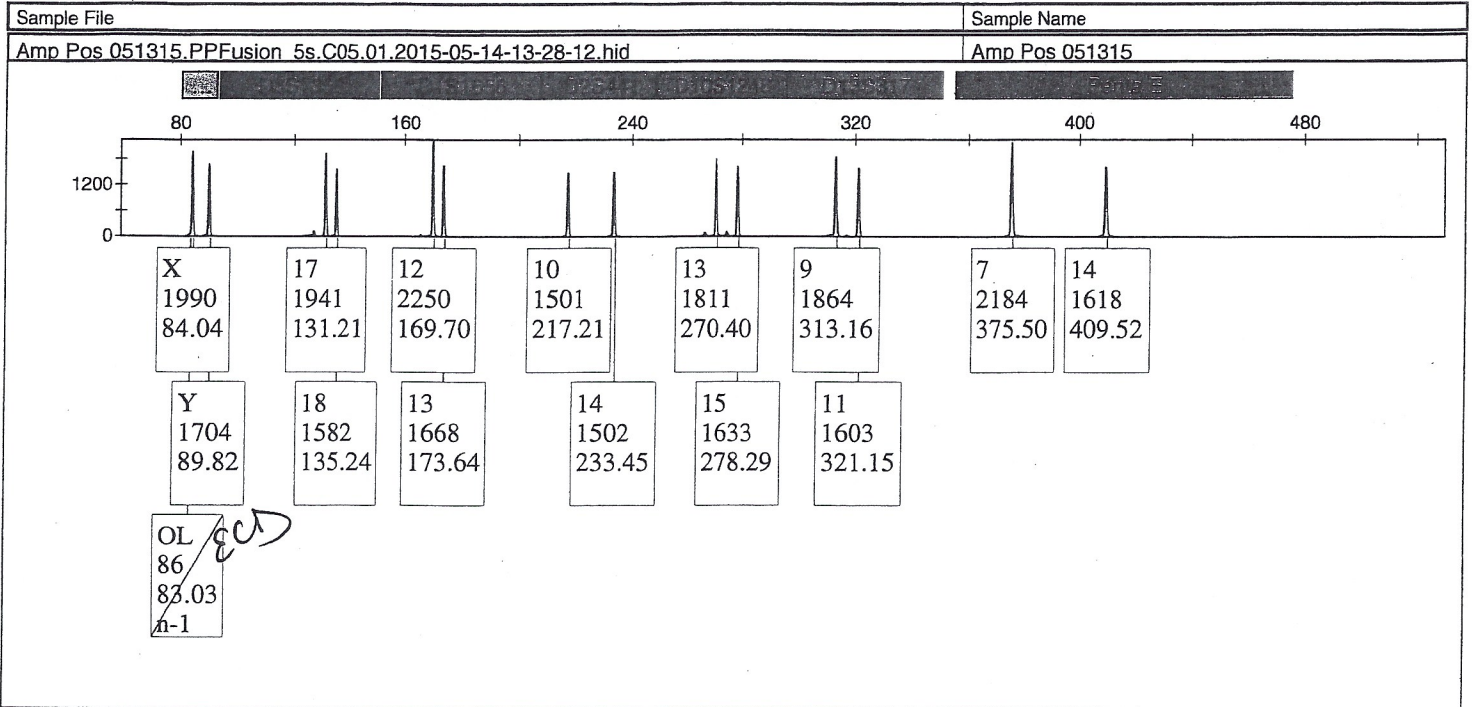
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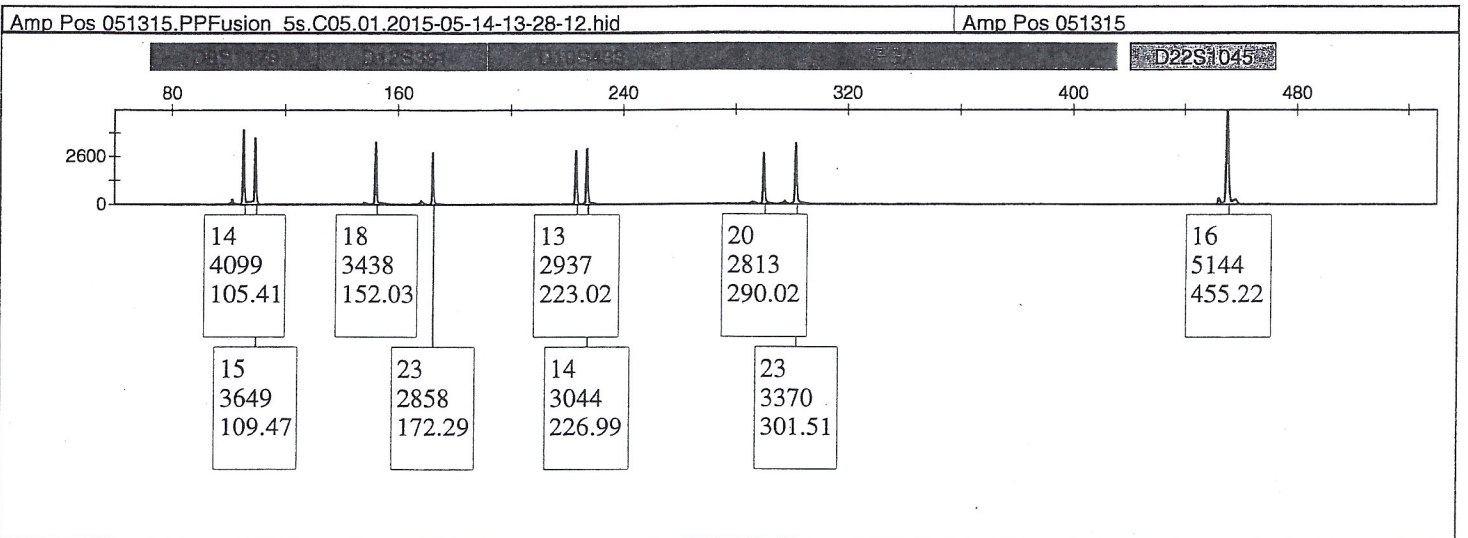
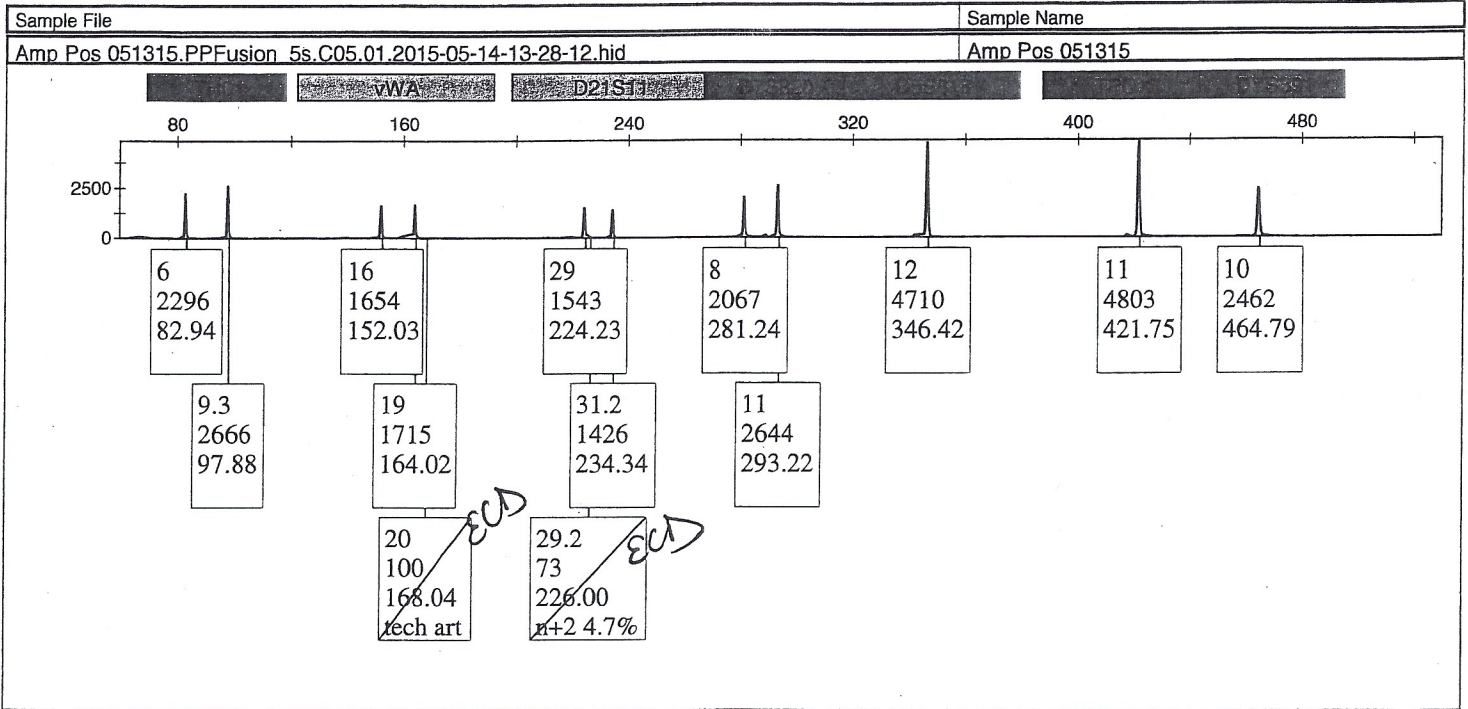
ECD



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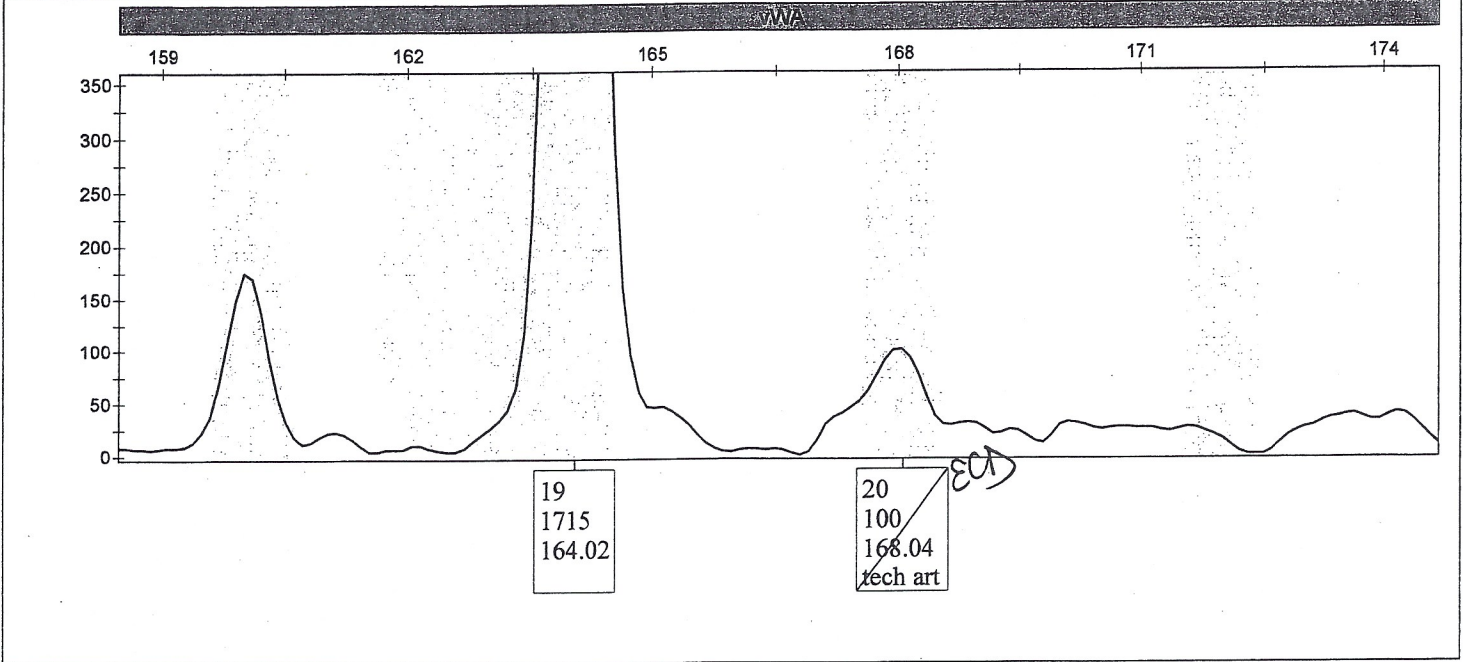


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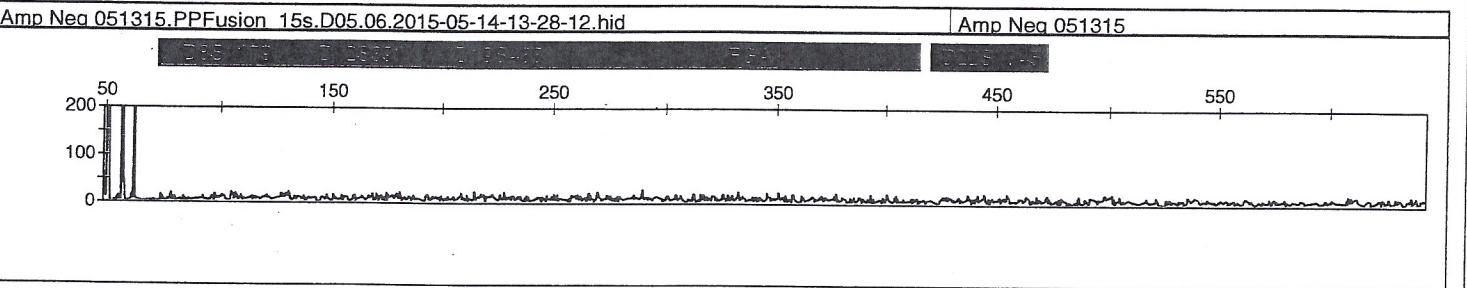
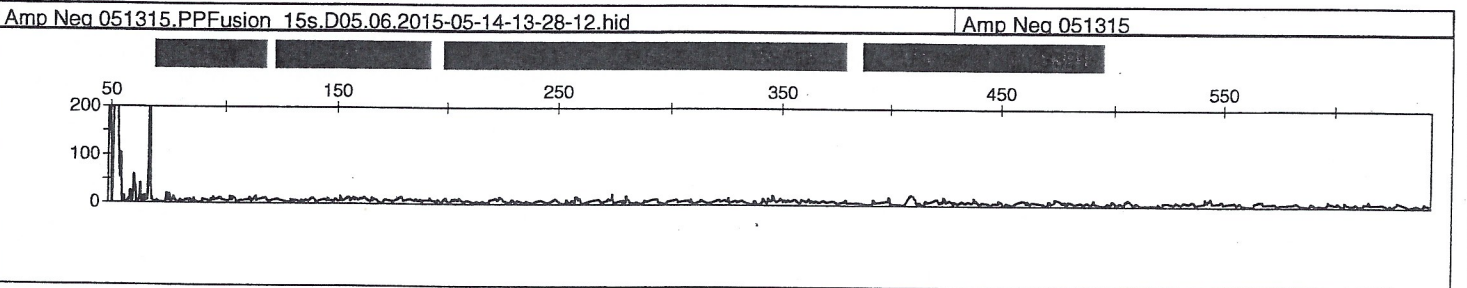
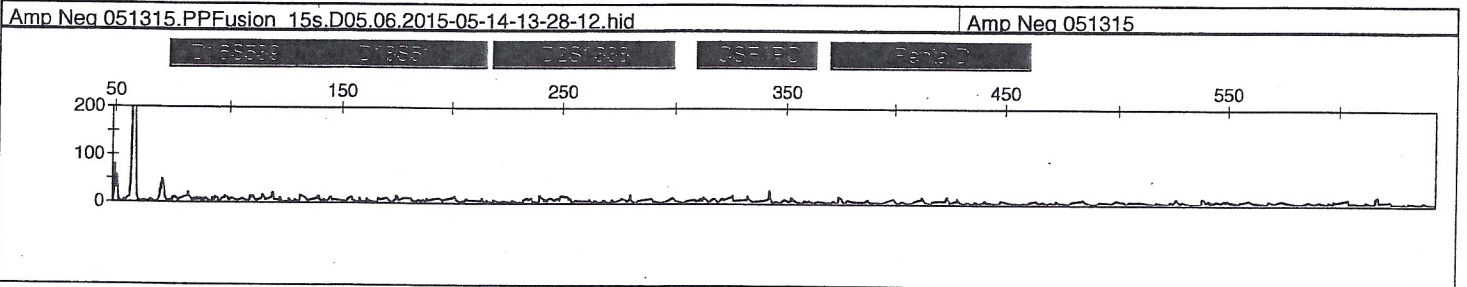
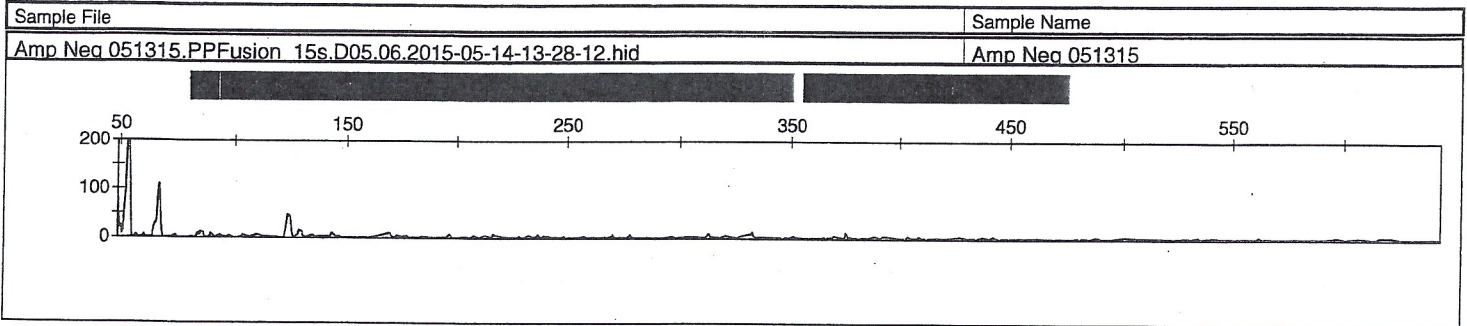
Sample File	Sample Name
Amp Pos 051315.PPFusion 5s.C05.01.2015-05-14-13-28-12.hid	Amp Pos 051315



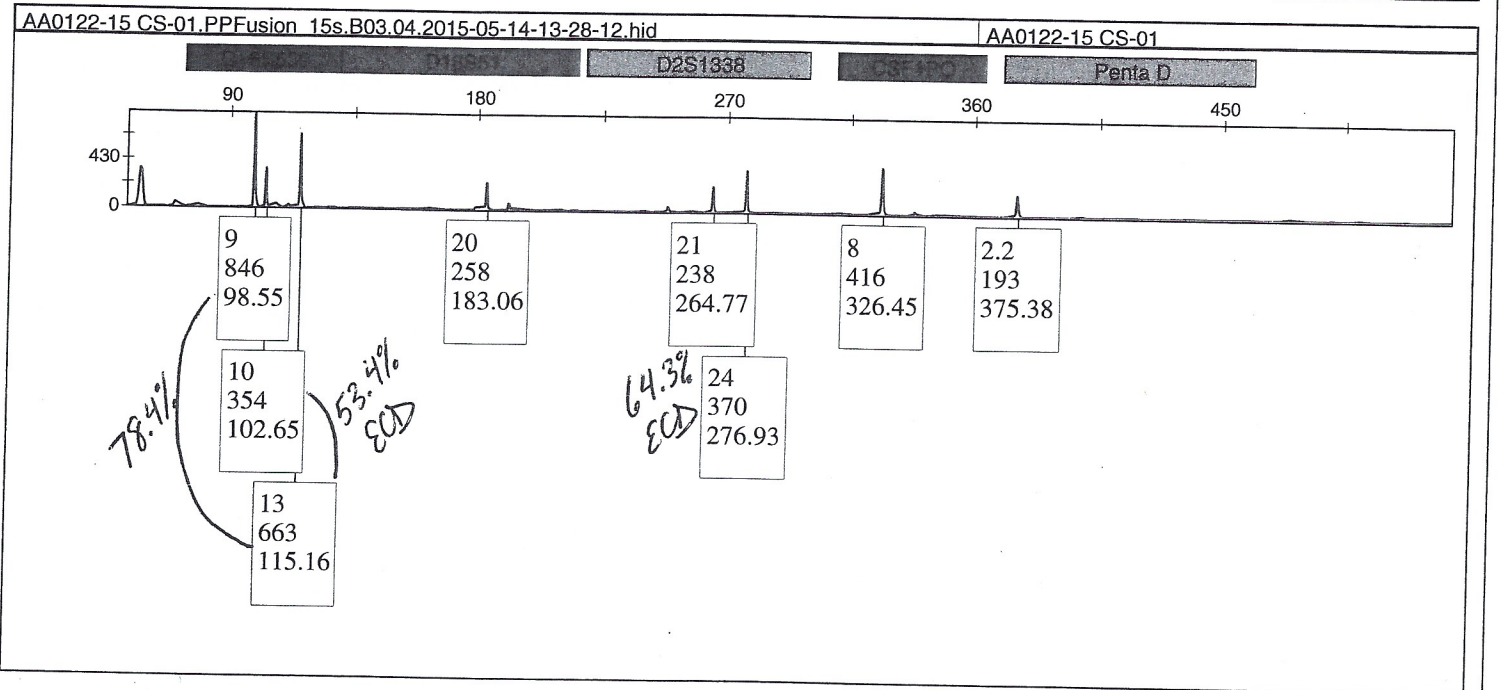
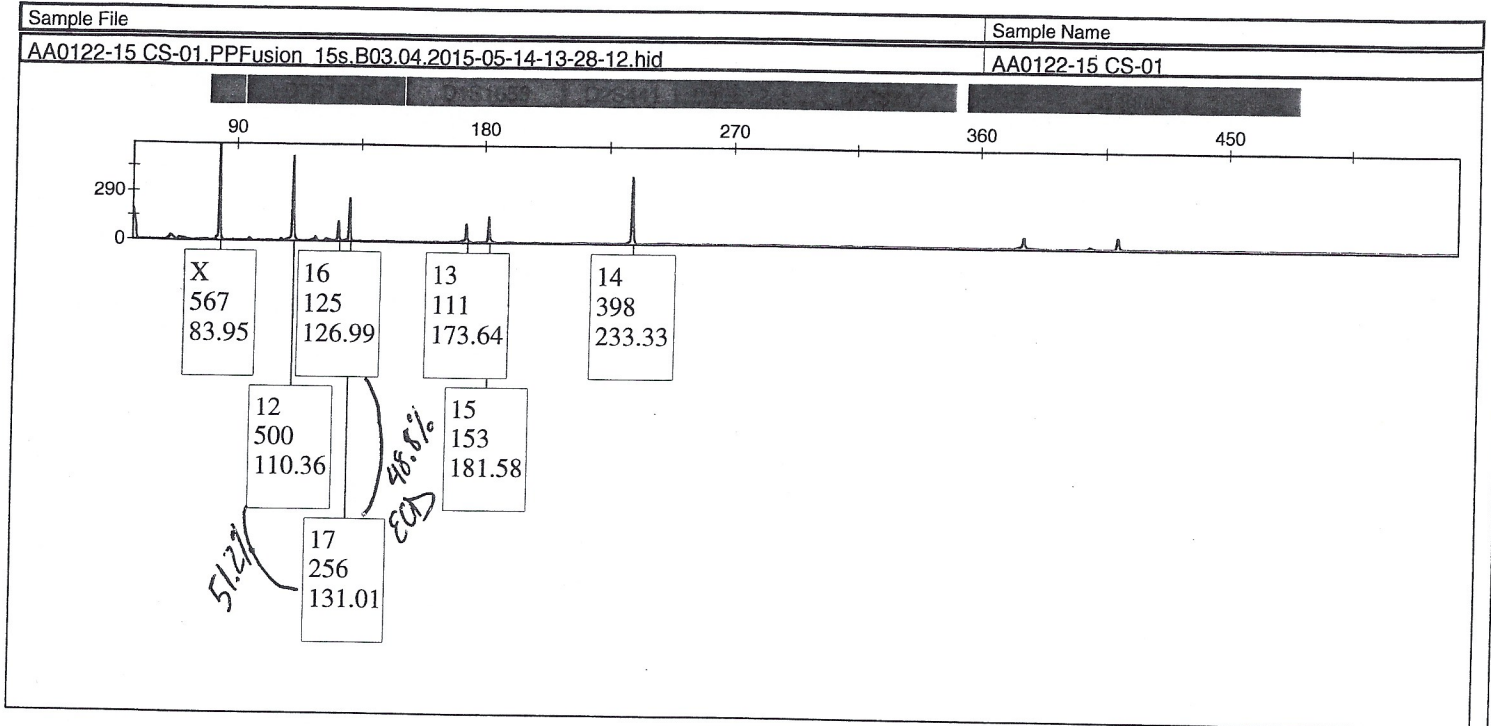
ECD

	Sample Name	Marker	Allele 1	Allele 2	Height 1	Height 2	CC
1	Amp Pos 051315	AMEL	X	Y	1990	1704	▲
2	Amp Pos 051315	D3S1358	17	18	1941	1582	■
3	Amp Pos 051315	D1S1656	12	13	2250	1668	■
4	Amp Pos 051315	D2S441	10	14	1501	1502	■
5	Amp Pos 051315	D10S1248	13	15	1811	1633	■
6	Amp Pos 051315	D13S317	9	11	1864	1603	■
7	Amp Pos 051315	Penta E	7	14	2184	1618	■
8	Amp Pos 051315	D16S539	9	13	3010	2867	■
9	Amp Pos 051315	D18S51	16	18	2452	2873	■
10	Amp Pos 051315	D2S1338	22	25	2670	2630	■
11	Amp Pos 051315	CSF1PO	12		5385		■
12	Amp Pos 051315	Penta D	12	13	2664	2039	■
13	Amp Pos 051315	TH01	6	9.3	2296	2666	■
14	Amp Pos 051315	vWA	16	19	1654	1715	▲
15	Amp Pos 051315	D21S11	29	31.2	1543	1426	▲
16	Amp Pos 051315	D7S820	8	11	2067	2644	■
17	Amp Pos 051315	D5S818	12		4710		■
18	Amp Pos 051315	TPOX	11		4803		■
19	Amp Pos 051315	DYS391	10		2462		■
20	Amp Pos 051315	D8S1179	14	15	4099	3649	■
21	Amp Pos 051315	D12S391	18	23	3438	2858	■
22	Amp Pos 051315	D19S433	13	14	2937	3044	■
23	Amp Pos 051315	FGA	20	23	2813	3370	■
24	Amp Pos 051315	D22S1045	16		5144		■

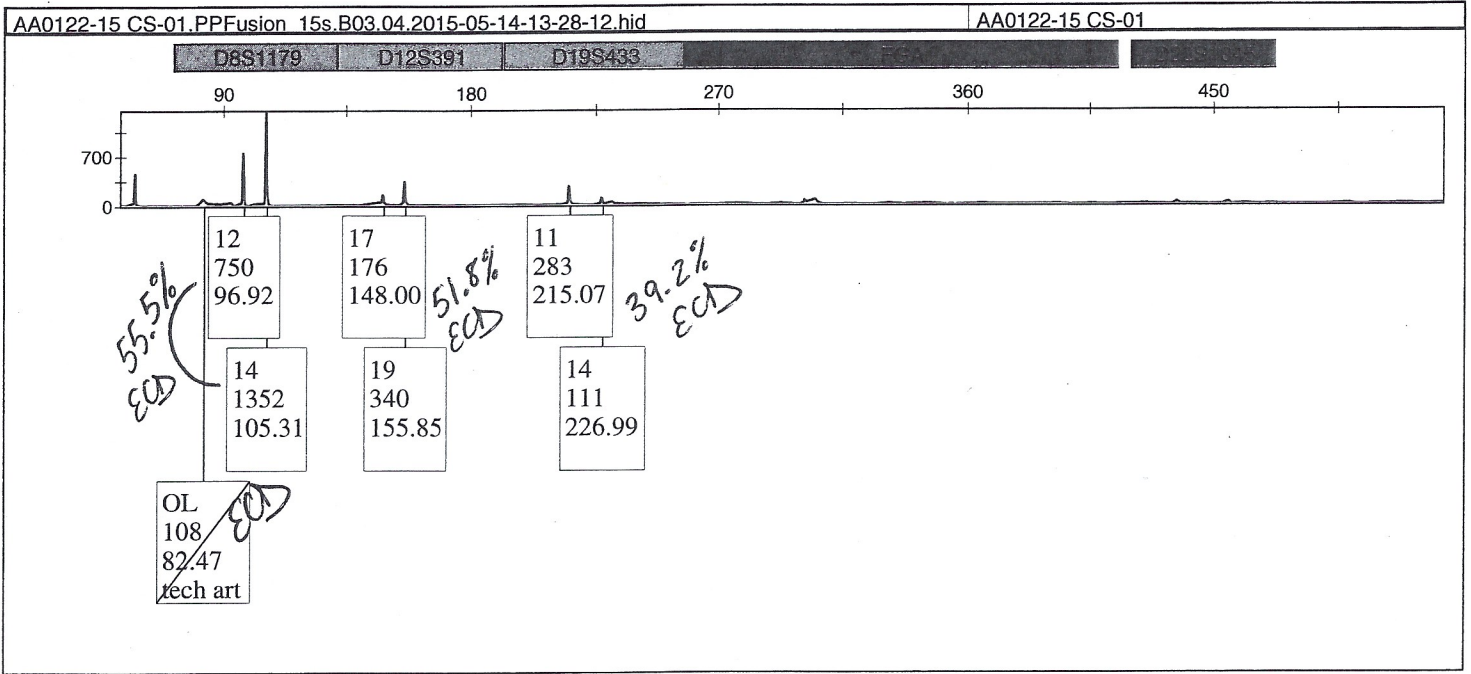
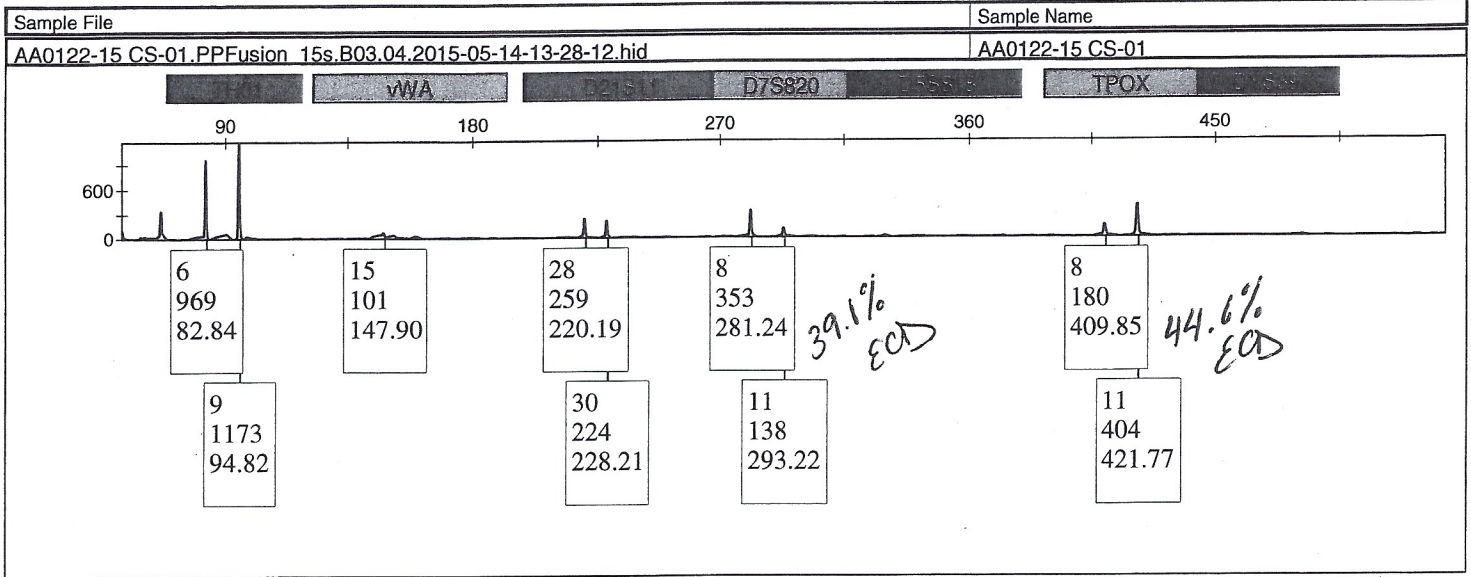
ECD



ECD

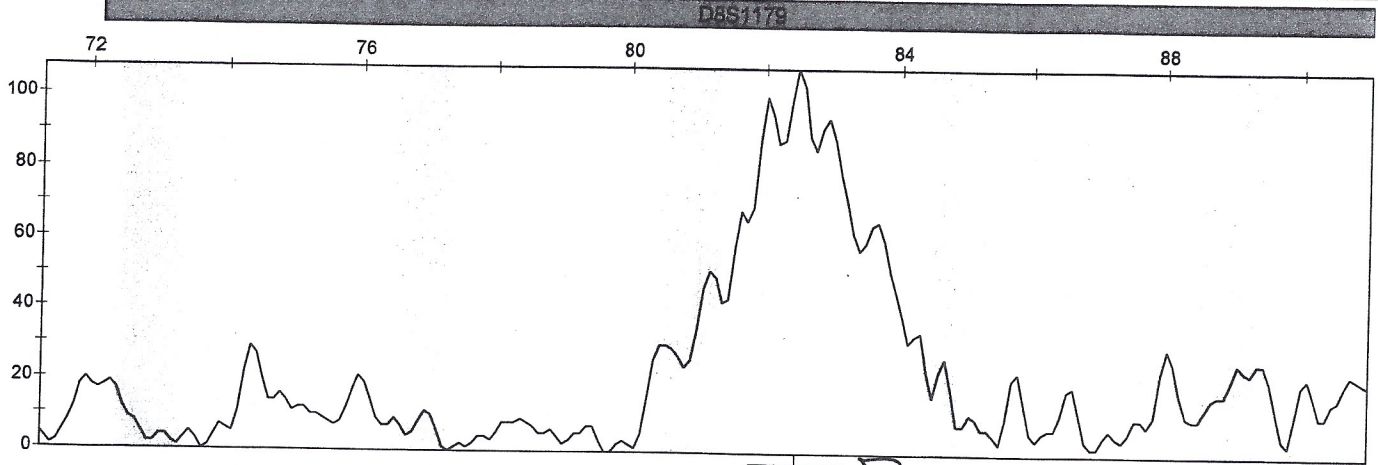


60% PHR used for major component and stats. ECD



ECD

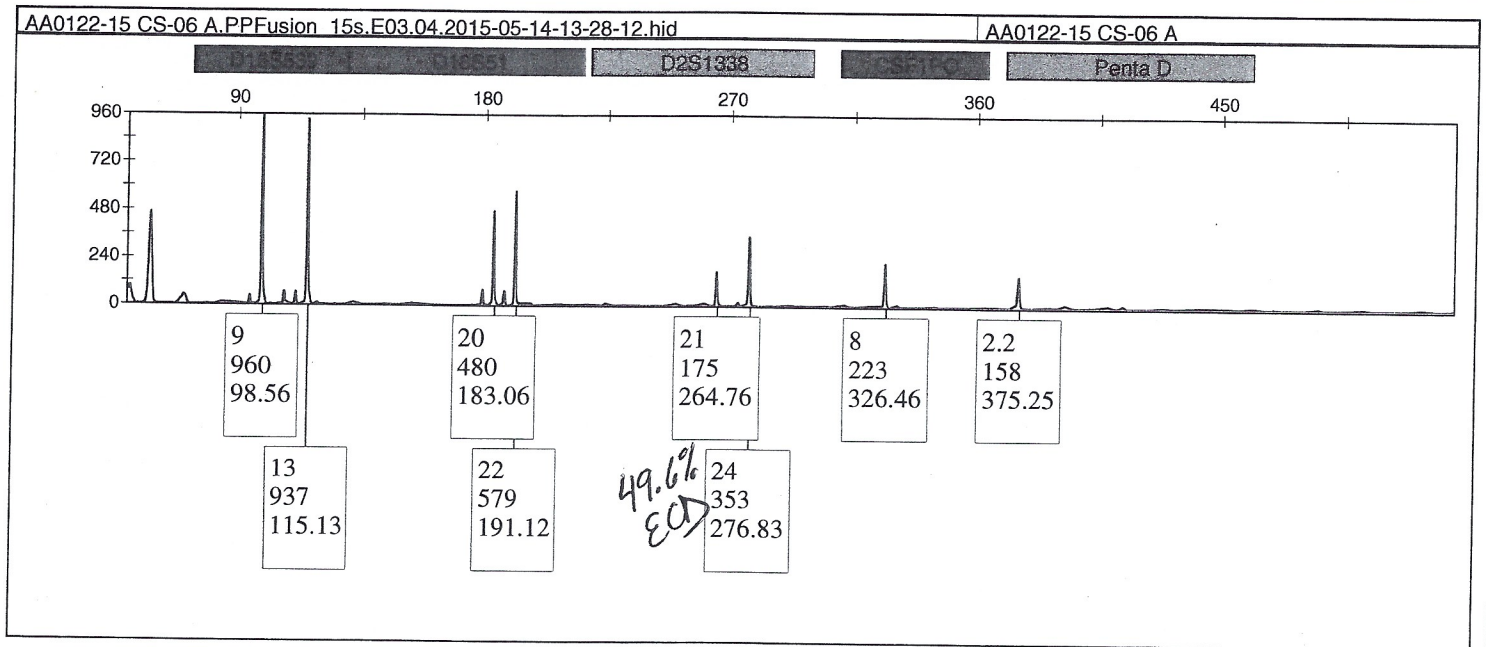
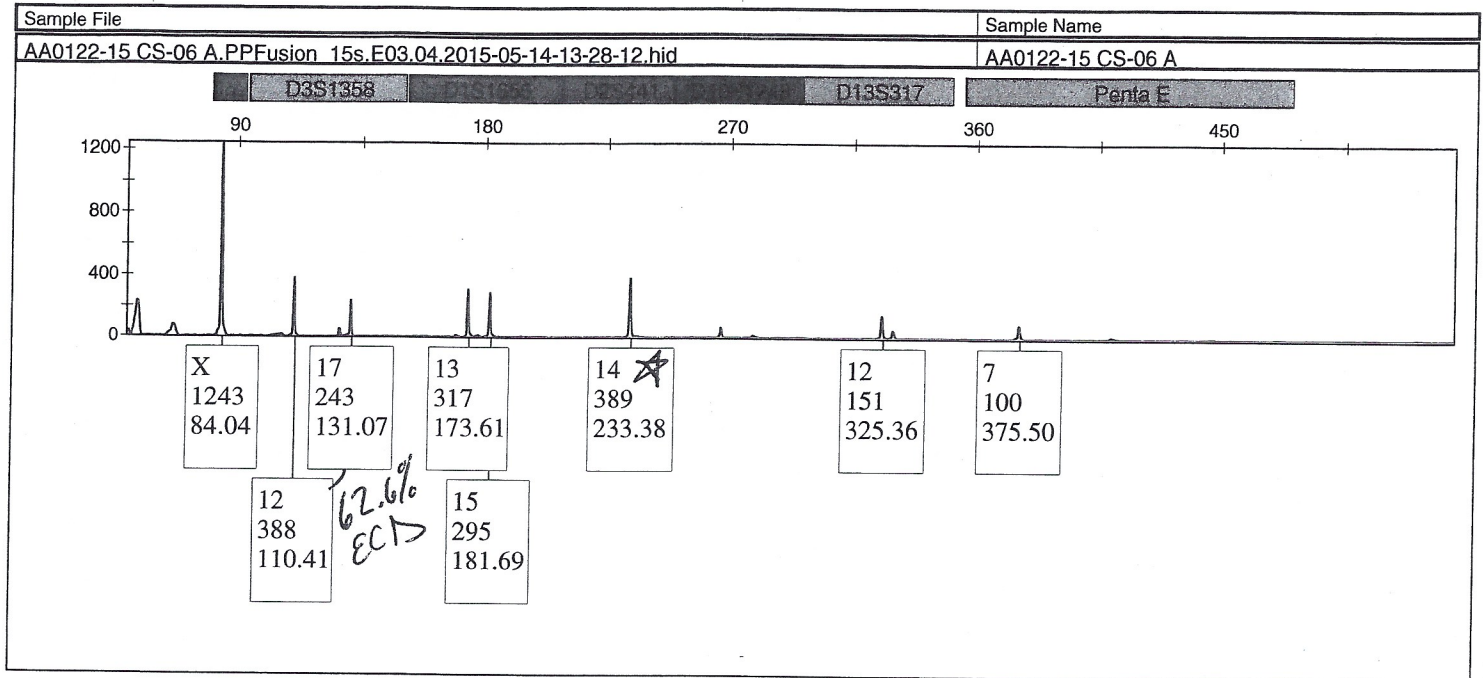
Sample File	Sample Name
AA0122-15 CS-01.PPFusion 15s.B03.04.2015-05-14-13-28-12.hid	AA0122-15 CS-01



OL
108
82.47
tech art

ECD

ECD

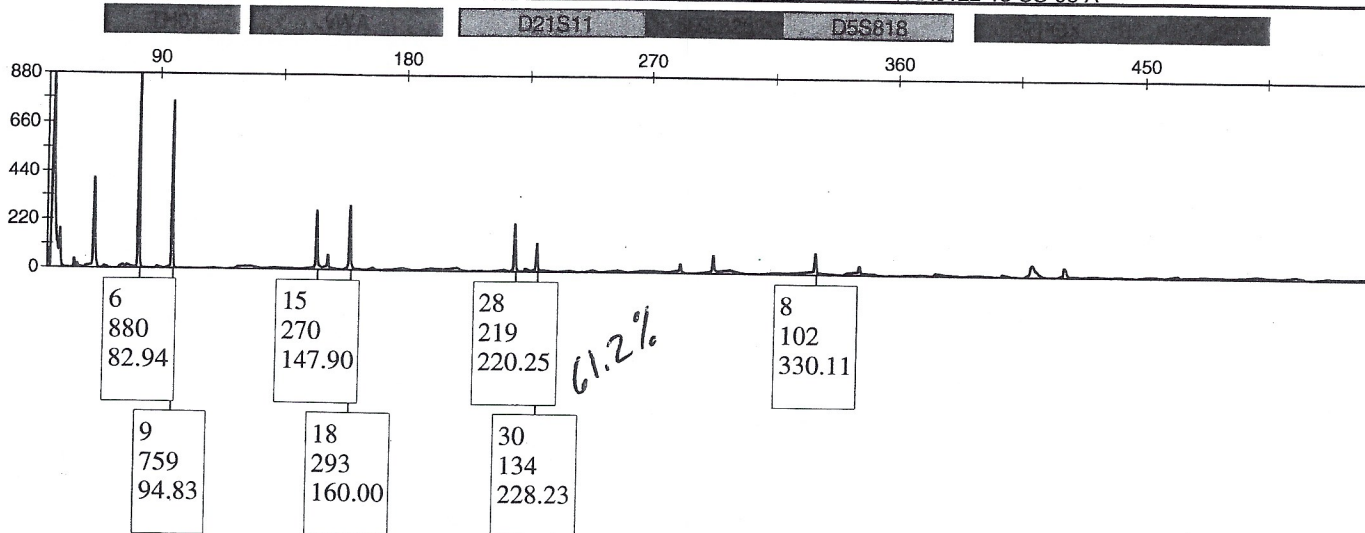


No indication of mixture. Will use all areas with 2 alleles for stats.
ECD

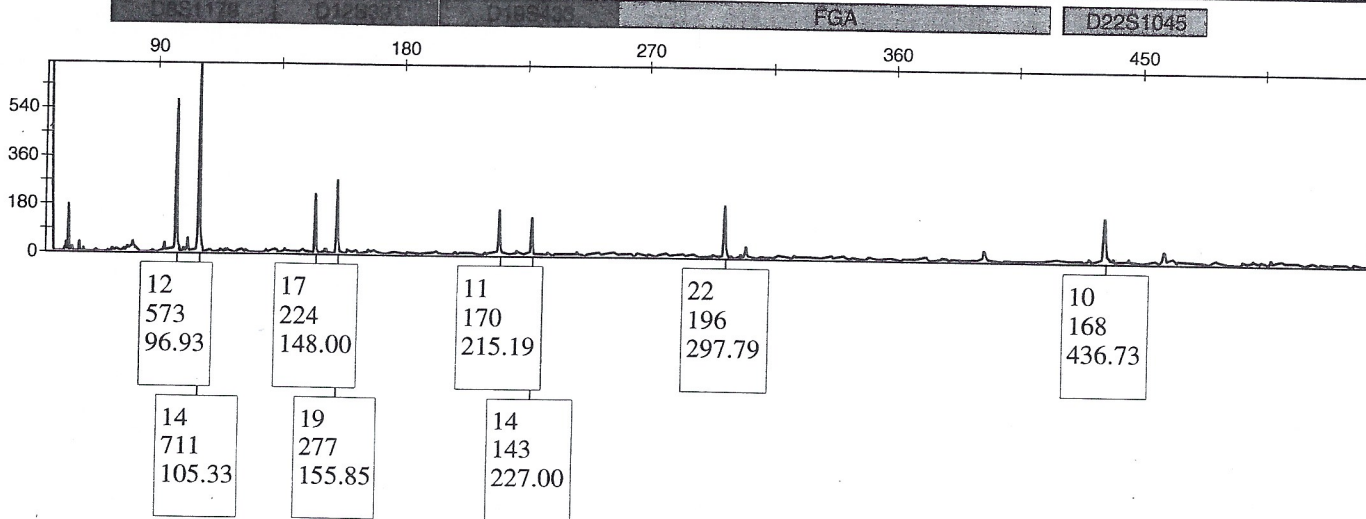
* This allele was below stochastic threshold in 5s injection. will not be used for stats.
ECD

ECD

Sample File	Sample Name
AA0122-15 CS-06 A.PPFusion 15s.E03.04.2015-05-14-13-28-12.hid	AA0122-15 CS-06 A



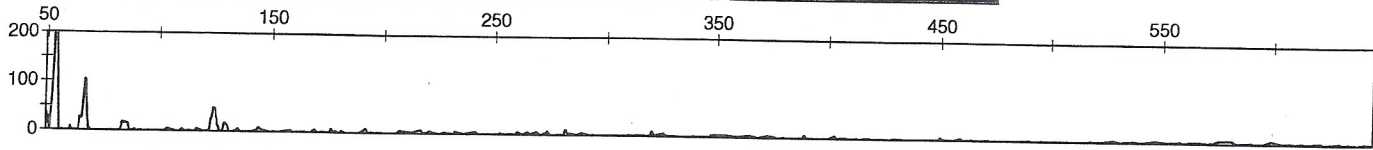
AA0122-15 CS-06 A.PPFusion 15s.E03.04.2015-05-14-13-28-12.hid	AA0122-15 CS-06 A
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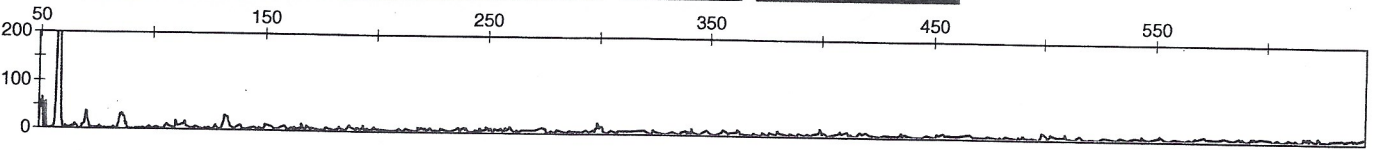
ECD

Sample File	Sample Name
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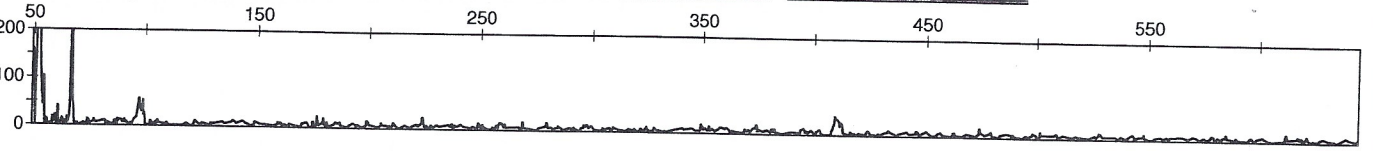
RBQ B 051315.PPFusion 15s.D04.05.2015-05-14-13-28-12.hid	RBQ B 051315
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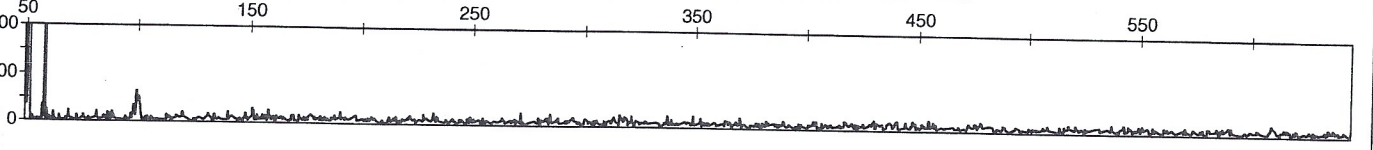
RBQ B 051315.PPFusion 15s.D04.05.2015-05-14-13-28-12.hid	RBQ B 051315
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RBQ B 051315.PPFusion 15s.D04.05.2015-05-14-13-28-12.hid	RBQ B 051315
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RBQ B 051315.PPFusion 15s.D04.05.2015-05-14-13-28-12.hid	RBQ B 051315
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ECD

Statistics Report

Database: C:\Program Files\CODIS\Standalone Popstats\Popstats\POPDATA\FBI\NIST 9-26-13
 Probability Formula: NRC '96 with selected alternative Homozygous Calculation: 2p
 Theta1: 0.01
 Lab ID: CODIS
 Specimen ID: AA0122-15/CS-01/Lighter
 Comment:

Locus	Allele	Allele Frequency			
		COMB	CAU	BLK	HSP
D1S1656	13	9.5100E-02	6.6500E-02	1.0090E-01	1.1440E-01
D1S1656	15	1.6170E-01	1.4960E-01	1.5790E-01	1.3770E-01
D2S441	14	2.2680E-01	2.4100E-01	2.6750E-01	2.0550E-01
D16S539	9	1.6260E-01	1.0660E-01	1.8270E-01	1.3980E-01
D16S539	13	1.3710E-01	1.6340E-01	1.2280E-01	1.3350E-01
D2S1338	21	6.6600E-02	3.7400E-02	1.3600E-01	3.1800E-02
D2S1338	24	9.7000E-02	1.1500E-01	8.3300E-02	7.6300E-02
CSF1PO	8	2.1200E-02	6.9000E-03 M	5.5600E-02	1.0600E-02 M
TH01	6	1.9590E-01	2.3550E-01	1.3160E-01	2.3940E-01
TH01	9	1.6890E-01	1.1910E-01	1.5940E-01	1.4620E-01
D21S11	28	1.6460E-01	1.5930E-01	2.4560E-01	9.9600E-02
D21S11	30	2.4760E-01	2.8250E-01	1.6960E-01	2.7330E-01

Locus	Allele	ASN
D1S1656	13	1.3400E-01
D1S1656	15	2.7840E-01
D2S441	14	8.2500E-02
D16S539	9	3.5570E-01
D16S539	13	9.7900E-02
D2S1338	21	2.5800E-02 M
D2S1338	24	1.2890E-01
CSF1PO	8	2.5800E-02 M
TH01	6	1.7010E-01
TH01	9	4.4330E-01
D21S11	28	5.6700E-02
D21S11	30	3.2990E-01

Inverse Probability for Population Groups

COMB: 1 in 299,500,000,000 *290 billion*
 CAU: 1 in 4,776,000,000,000
 BLK: 1 in 33,220,000,000
 HSP: 1 in 4,826,000,000,000
 ASN: 1 in 739,600,000,000

Code Legend

L: Locus data for the current population group is not available.
 M: Minimum allele frequency was used in the calculation.
 P: Alternate Formula Applied [2p]

ECD

Statistics Report

Database: C:\Program Files\CODIS\Standalone Popstats\Popstats\POPDATA\FBI\NIST 9-26-13
 Probability Formula: NRC '96 with selected alternative Homozygous Calculation: 2p
 Theta1: 0.01
 Lab ID: CODIS
 Specimen ID: AA0122-15/CS-06/Grilla
 Comment:

Locus	Allele	Allele Frequency			
		COMB	CAU	BLK	HSP
D3S1358	12	2.4000E-03 M	6.9000E-03 M	7.3000E-03 M	1.0600E-02 M
D3S1358	17	2.0420E-01	2.1050E-01	2.1200E-01	1.8430E-01
D1S1656	13	9.5100E-02	6.6500E-02	1.0090E-01	1.1440E-01
D1S1656	15	1.6170E-01	1.4960E-01	1.5790E-01	1.3770E-01
D16S539	9	1.6260E-01	1.0660E-01	1.8270E-01	1.3980E-01
D16S539	13	1.3710E-01	1.6340E-01	1.2280E-01	1.3350E-01
D18S51	20	3.5700E-02	1.8000E-02	6.2900E-02	2.7500E-02
D18S51	22	8.7000E-03	6.9000E-03	7.3000E-03	1.0600E-02
D2S1338	21	6.6600E-02	3.7400E-02	1.3600E-01	3.1800E-02
D2S1338	24	9.7000E-02	1.1500E-01	8.3300E-02	7.6300E-02
TH01	6	1.9590E-01	2.3550E-01	1.3160E-01	2.3940E-01
TH01	9	1.6890E-01	1.1910E-01	1.5940E-01	1.4620E-01
vWA	15	1.3470E-01	1.0530E-01	1.9150E-01	1.4410E-01
vWA	18	1.8000E-01	2.0220E-01	1.4910E-01	1.8010E-01
D21S11	28	1.6460E-01	1.5930E-01	2.4560E-01	9.9600E-02
D21S11	30	2.4760E-01	2.8250E-01	1.6960E-01	2.7330E-01
D8S1179	12	1.4190E-01	1.6760E-01	1.3010E-01	1.2920E-01
D8S1179	14	2.3360E-01	1.6620E-01	2.9390E-01	2.6270E-01
D12S391	17	1.2450E-01	1.2740E-01	1.6670E-01	7.6300E-02
D12S391	19	1.5150E-01	1.2470E-01	1.4770E-01	1.8860E-01
D19S433	11	2.6100E-02	6.9000E-03 M	6.2900E-02	1.4800E-02
D19S433	14	3.0410E-01	3.6150E-01	2.1050E-01	3.5380E-01

ECD

Statistics Report

Database: C:\Program Files\CODIS\Standalone Popstats\Popstats\POPDATA\FBI\NIST 9-26-13
 Probability Formula: NRC '96 with selected alternative Homozygous Calculation: 2p
 Theta1: 0.01
 Lab ID: CODIS
 Specimen ID: AA0122-15/CS-06/Grilla
 Comment:

Locus	Allele	ASN	Allele Frequency
D3S1358	12	2.5800E-02 M	
D3S1358	17	2.0100E-01	
D1S1656	13	1.3400E-01	
D1S1656	15	2.7840E-01	
D16S539	9	3.5570E-01	
D16S539	13	9.7900E-02	
D18S51	20	2.5800E-02	
D18S51	22	2.5800E-02 M	
D2S1338	21	2.5800E-02 M	
D2S1338	24	1.2890E-01	
TH01	6	1.7010E-01	
TH01	9	4.4330E-01	
vWA	15	2.5800E-02 M	
vWA	18	2.0620E-01	
D21S11	28	5.6700E-02	
D21S11	30	3.2990E-01	
D8S1179	12	1.1860E-01	
D8S1179	14	2.0100E-01	
D12S391	17	8.2500E-02	
D12S391	19	1.7530E-01	
D19S433	11	2.5800E-02 M	
D19S433	14	2.9900E-01	

Inverse Probability for Population Groups

COMB: 1 in 8,929,000,000,000,000 *8.9 quintillion*
 CAU: 1 in 122,400,000,000,000,000
 BLK: 1 in 545,600,000,000,000,000
 HSP: 1 in 19,010,000,000,000,000,000
 ASN: 1 in 1,641,000,000,000,000,000

Code Legend

L: Locus data for the current population group is not available.
 M: Minimum allele frequency was used in the calculation.
 P: Alternate Formula Applied [2p]

ECD

12^u ECU

CSU # 12-716431.1		Post (Orig. Location) SA5		Anne Arundell County Police Millersville, MD Crime Scene Unit Supplemental Report			Page 1 of 1	
Type Of Case DOA				Report Number 12-716431				
Date of Orig. Report 05/06/2012 - 00:00		Date/Time Called 5/6/2012 8:40	Time Arrived 5/6/12 9:50	Time Completed 5/6/12 9:35	Location of Scene Processed Parking Lot Of A.A.C.C. - 7009 Arundel Mills Circle, H			
Type of Scene Processed Other			Person Present for Custody of Property Dr. Aronica-Pollak		Name of Officer Present NP0001	Reporting Officer NH1821		
Description of Vehicle Processed								
Vehicle #	Year	Make	Model	Color(s)	Tag Display	State	VIN	Mileage
Process for Latents Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		Elimination Prints: Count: Elimination Letter Left:		Latent Examiner Only: Identifiable <input type="checkbox"/> Not Identifiable <input type="checkbox"/> MAFIS: Y N		Remarks: _____ Examiner: _____		
Photographs Taken: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		B & W	Color	Digital	Polaroid	Remarks:		
Victim Name Katherine Morris		Address 45810 Aberdeen Ln - Valley Lee, Md			Phone #	Sex - Race - Date of Birth - Age F - B - 03/11/90 - 22		

Narrative: (Include scene and victim injury descriptions and conditions, weather conditions, procedure used, statements of examination and processing, and additional information.)

On May 6, 2012, I, Technician Milazzo #3250, responded to the Office of Chief Medical Examiner at 900 W. Baltimore Street, Baltimore, Maryland around 0905 hours in reference to an autopsy for Katherine Sarah Moore (B/F, DOB: 03/11/1990), a victim of a possible suicide.

I was informed that Dr. Aronica-Pollak was going to perform the autopsy on Miss Morris. In additions, photographs of the victim were going to be taken by David Koch. Refer to OCME Case Number: 12-03499 for more information. This technician left a list of evidence that needed to be collected from the victim with Dr. Aronica-Pollak. The evidence will be collected at the OCME by another technician. Refer to the responding technicians report for additional information.

No further ECU services are requested at this time.


CST MILAZZO, KALA
Signature  ID # KM3250

CSU Supervisor COVER, JEFFREY G
Signature  ID # CJ9634

CSU # 12-716431.2		Post (Orig. Location) 5A5		Anne Arundell County Police Millersville, MD Crime Scene Unit Supplemental Report			Page 1 of 1			
Type Of Case DOA				Report Number 12-716431						
Date of Orig. Report 05/06/2012 - 00:00		Date/Time Called 5/6/2012 14:30		Time Arrived 5/6/12 14:50		Time Completed 5/6/12 15:35		Location of Scene Processed Parking Lot Of A.A.C.C. - 7009 Arundel Mills Circle, H		
Type of Scene Processed Other			Person Present for Custody of Property Dr. Aronica-Pollak			Name of Officer Present NP0001		Reporting Officer NH1821		
Description of Vehicle Processed										
Vehicle #	Year	Make	Model	Color(s)		Tag Display	State	VIN	Mileage	
Process for Latents Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		Elimination Prints: Count: Elimination Letter Left:		Latent Examiner Only: Identifiable <input type="checkbox"/> Not Identifiable <input type="checkbox"/> MAFIS: Y N		Remarks: _____ Examiner: _____				
Photographs Taken:										
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	B & W	Color	Digital	6	Polaroid	Remarks:			
Victim Name Katherine Morris			Address 45810 Aberdeen Ln - Valley Lee, Md				Phone #		Sex - Race - Date of Birth - Age F - B - 03/11/90 - 22	
Narrative: (Include scene and victim injury descriptions and conditions, weather conditions, procedure used, statements of examination and processing, and additional information.)										
<p>On 5/6/12, I responded to the Office of the Chief Medical Examiner to recover evidence from the autopsy of Katherine Sarah Morris. The autopsy had been conducted by Dr. Aronica-Pollak. I spoke with her and the following items of evidence were turned over to me:</p> <ul style="list-style-type: none"> V-01 - Blood Card V-02 - Head Hair Standard V-03 - Fingernail Clippings (right hand) V-04 - Fingernail Clippings (left hand) V-05 - Oral Swabs V-06 - Fingerprint & Palm Print cards (taken by this technician) V-07 - Sheet V-08 - Jeans with belt V-09 - Bra V-10 - Underwear V-11 - Shoes V-12 - Right hand bag V-13 - Left hand bag V-14 - Contact Lenses V-15 - Jewelry (ring) V-16 - Swab of right hand V-17 - Swab of left hand V-18 - Tank top <p>In addition, I collected a thumb drive that contained 6 photographs taken by the OCME photographer, Dave Koch. The thumb drive was submitted as item PE-02. All items of evidence were transported to ECU Headquarters and packaged.</p> <p>No further examinations were requested or conducted at this time.</p>										
CST BEALE, KRISTINA L. Signature <i>K Beale</i> ID # BK8806				CSU Supervisor <i>[Signature]</i> COVER, JEFFREY G Signature ID # CJ9634						

CSU # 12-716431.3	Post (Orig. Location) SA5	Anne Arundell County Police Millersville, MD Crime Scene Unit Supplemental Report			Page 1 of 2				
Type Of Case DOA		Report Number 12-716431							
Date of Orig. Report 05/06/2012 - 00:00	Date/Time Called 5/6/2012 5:40	Time Arrived 5/6/12 6:00	Time Completed 5/6/12 10:00	Location of Scene Processed Parking Lot Of A.A.C.C. - 7009 Arundel Mills Circle, H					
Type of Scene Processed Commercial		Person Present for Custody of Property		Name of Officer Present NH1821	Reporting Officer NH1821				
Description of Vehicle Processed									
Vehicle #	Year	Make	Model	Color(s)	Tag Display	State	VIN	Mileage	
Process for Latents Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		Elimination Prints: Count: Elimination Letter Left:		Latent Examiner Only: Identifiable <input type="checkbox"/> Not Identifiable <input type="checkbox"/> MAFIS: Y N		Remarks:		Examiner:	
Photographs Taken: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		B & W	Color	Digital	31	Polaroid	Remarks:		
Victim Name Katherine Morris		Address 45810 Aberdeen Ln - Valley Lee, Md			Phone #	Sex - Race - Date of Birth - Age F - B - 03/11/90 - 22			
Narrative: (Include scene and victim injury descriptions and conditions, weather conditions, procedure used, statements of examination and processing, and additional information.)									
<p>On May 6, 2012, this technician (Pifer #3212) responded to the parking lot behind Anne Arundel Community College located at 7009 Arundel Mills Circle in Hanover, Maryland in reference to a death. Upon arrival, this technician met with Officer Hollis #1821. According to the information received, Arundel Mills Mall Security noticed a gold Pontiac G6 (MD tag: 3EXG24, VIN: 1G2ZG528954147568) parked in the lot, running, with the doors closed but unlocked, and with the trunk slightly ajar. A female subject was lying across the front seats. The victim, Katherine Morris (B/F, DOB: 03/11/90) was deceased.</p> <p>Upon approaching the vehicle, this technician observed a strong odor of burnt charcoal. The decedent was lying across the front seats, with her feet on the driver's seat and her upper body partially on the passenger seat. Two disposable charcoal grills were observed, partially burnt, on the front passenger floor board, under the victim. A purse, containing credit cards was located on the front passenger seat, along with an iPod and a lighter. Over the counter CVS Nighttime Sleep Aide was also located in the purse. An iPhone was located in the center console. In the back seat packaging for two disposable Wal-Mart Charcoal grills were observed. No receipt was located during a search of the vehicle.</p> <p>Sergeant Clark arrived on scene. Forensic Investigator Abby Glenn also arrived to examine the victim. Additional photographs were taken. A large burn was visible on the victim's back. This technician provided a sheet to be placed with the victim in the body bag. This technician also bagged the victim's hands. The decedent was transported to the Office of the Chief Medical Examiner's in Baltimore for an autopsy.</p> <p>The interior of the vehicle was processed for latent fingerprints by utilizing black powder, with negative results. Due to the rain, the exterior of the vehicle was not processed. The interior of the four doors and the steering wheel were swabbed for possible DNA testing. A control swab was also obtained.</p> <p>The following items were collected.</p> <p>CS-01: lighter with black and red handle - front passenger seat CS-02: iPod 32GB - front passenger seat CS-03: iPhone, 16GB, black with green cover - center console CS-04: CVS Nighttime Sleep Aide Maximum Strength- Bottle for 32 soft gels, containing 24 blue pills CS-05: Box/Plastic Packaging Materials for Two Disposable Charcoal "Ready to Use" Grills - Rear Seat CS-06: Two disposable charcoal grills - front passenger floor board</p>									

CST KATIE PIFER
Signature  ID# KP3212

CSU Supervisor
Signature  COVER, JEFFREY G
ID# CJ9634

Anne Arundell County Police
Millersville, MD

CSU #
12-716431.3

Page
2 of 2

Type Of Case
DOA

Crime Scene Unit
Supplemental Report
(Continuation)

Report Number
12-716431

- VV-01: One Swab from Vehicle - Int. Driver Door
- VV-02: One Swab from Vehicle - Int. Front Passenger Door
- VV-03: One Swab from Vehicle - Int. Rear Driver's Side Door
- VV-04: One Swab from Vehicle - Int. Rear Passenger Side Door
- VV-05: One Swab from Vehicle - Steering Wheel
- VV-06: One Control Swab

The above items were later packaged and submitted into an evidence locker pending transfer to the appropriate facility for testing and/or storage.

There were no further requests for ECU services at this time.

CST KATIE PIFER

Signature  ID # KP3212

CSU Supervisor COVER, JEFFREY G

Signature  ID # CJ9634

122-15
EOD

CSU # 12-716431.4	Post (Orig. Location) 5A5	Anne Arundell County Police Millersville, MD Crime Scene Unit Supplemental Report			Page 1 of 1				
Type Of Case DOA		Report Number 12-716431							
Date of Orig. Report 05/06/2012 - 00:00	Date/Time Called 11/22/2013 0:01	Time Arrived 11/22/13 0:01	Time Completed 11/22/13 2:30	Location of Scene Processed Parking Lot Of A.A.C.C. - 7009 Arundel Mills Circle, H					
Type of Scene Processed Commercial		Person Present for Custody of Property		Name of Officer Present NP0001	Reporting Officer NH1821				
Description of Vehicle Processed									
Vehicle #	Year	Make	Model	Color(s)	Tag Display	State	VIN	Mileage	
Process for Latents Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		Elimination Prints: Count: Elimination Letter Left:		Latent Examiner Only: Identifiable <input type="checkbox"/> Not Identifiable <input type="checkbox"/> MAFIS: Y N		Remarks:		Examiner:	
Photographs Taken: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		B & W	Color	Digital	Polaroid	Remarks:			
Owner Name MARGARITE MORRIS		Address			Phone #	Sex - Race - Date of Birth - Age - - -			
Victim Name Katherine Morris		Address 45810 Aberdeen Ln - Valley Lee, Md			Phone #	Sex - Race - Date of Birth - Age F - B - 03/11/90 - 22			

Narrative: (Include scene and victim injury descriptions and conditions, weather conditions, procedure used, statements of examination and processing, and additional information.)

On November 21, 2013 at 0615 hours I (Cst. Pifer #3212) received evidence items CS-01, CS-04, CS-05, and CS-06 from Evidence Coordinator Craig Robinson #9441 to be processed for latent fingerprints in the suicide of Katherine Morris, currently being investigated by detectives. These items were stored in an evidence locker until latent processing could be performed.

On November 22, 2013, I retrieved the items from my evidence locker. A new brush and fresh powder were used for each individual item processed in the event that DNA testing was to be conducted.

The lighter with a black and red handle (item CS-01) was processed with Cyanoacrylate fuming and black powder, with negative results.

The CVS Nighttime Sleep Aide Maximum Strength Bottle (item CS-04) was processed with Cyanoacrylate fuming and black powder, with negative results.

The Box/Plastic Packaging Materials for Two Disposable Charcoal "Ready to Use" Grills (item CS-05) were processed for latent fingerprints. Each pieces of plastic packaging was processed with Cyanoacrylate Fuming and black powder, utilizing a fresh brush and powder for each piece. The exterior surfaces of the boxes were also processed with Cyanoacrylate Fuming and black powder. The interior of these boxes were then processed with Ninhydrin for latent fingerprints. The paper inserts identifying the item as a Disposable Ready-to-Use grill (Both with Wal-Mart UPC: 8 35018 00174 5 and #UB41-084-033-01) were processed with Cyanoacrylate Fuming and black powder on the front, shiny surface. The back of this identifying paper was processed with Magnetic Ultra Blue 2000 powder. No possible identifiable latent lifts were obtained from any of the packaging materials. A copy of the paper inserts were placed in the case file.

The two disposable charcoal grills (item CS-06) were also processed Cyanoacrylate fuming and black powder on the bottom and sides of the tin grill. No possible identifiable latent lifts were obtained from these surfaces.

All items were resealed in their original packaging and submitted into an Evidence Locker.

There were no further requests for ECU services at this time.

CST KATIE PIFER Signature <i>Katie Pifer</i> 11/22/13 ID# KP3212	CSU Supervisor COVER, JEFFREY G Signature _____ ID# CJ9634
--	---

C. Robinson 9441
crab

8495 Veterans Hwy.
Millersville, MD 21108

SPECIAL CASE CONSIDERATIONS
CASE INVOLVES A JUVENILE: NO
OFFENSE NEAR A SCHOOL/PARK ZONE : NO

LABORATORY SUBMITTAL FORM

CASE No. : 12-716431 OFFENSE : 0005 DOA
DATE OF OFFENSE : 05/06/2012 SUBMITTING AGENCY:
SUBMISSION DATE : 04/30/2015

COURT DATE :

C. R. ... 9441 4/30/15
DELIVERING OFFICERS SIGNATURE

INVESTIGATED BY : HOLLIS, NATHANIEL R.

PHONE No. : 410-222-8800

FORWARD REPLY TO : ROBINSON, CRAIG

NAME / CDR #

(Name Type)	Case Name	(Gender)	(Race)	(DOB)	(CDR #)
Owner	MORRIS, MARGARITE				
Victim	Morris, Katherine Sarah	F	B	03/11/1990	

SUBMISSION TYPE:

COMMENTS TO LAB: Lt. Alban has directed the submission of this evidence and that each and every item have DNA analysis performed on it.

LIST OF SPECIMENS: (INDICATE DEFENDANT/LOCATION IF KNOWN)

Item Number: CS-05

Packaging: One sealed paper bag with: 1 Box
Item Description: Box/Plastic Packaging Materials for Two Disposable Charcoal "Ready to Use" Grills - Rear Seat
Collected: 05/06/2012 7:30
Address: 7009 Arundel Mills Circle, Hanover, Md
Exam: Forensic Biology

Item Number: CS-06

Packaging: One sealed paper bag with: 2 Charred debris
Item Description: Two disposable charcoal grills - front passenger floor board
Collected: 05/06/2012 7:30
Address: 7009 Arundel Mills Circle, Hanover, Md
Exam: Forensic Biology

Item Number: VV-01

Packaging: One sealed envelope with: 1 Swab(s) From Item
Item Description: Swab From Vehicle - Int. Driver Door
Collected: 05/06/2012 8:00
Address: 7009 Arundel Mills Circle, Hanover, Md
Exam: Forensic Biology

AA0122-15

Evidence Collection Unit 12-716431
Anne Arundel County Crime Lab - Biology

Item Number: VV-02

Packaging: One sealed envelope with: 1 Swab(s) From Item
Item Description: Swab From Vehicle - Int. Front Passenger Door
Collected: 05/06/2012 8:00
Address: 7009 Arundel Mills Circle, Hanover, Md
Exam: Forensic Biology

Received by: *[Signature]*

Date: 4/30/15

8495 Veterans Hwy.
Millersville, MD 21108

SPECIAL CASE CONSIDERATIONS

CASE INVOLVES A JUVENILE: NO

OFFENSE NEAR A SCHOOL/PARK ZONE : NO

LABORATORY SUBMITTAL FORM

CASE No. : 12-716431

OFFENSE : 0005 DOA

DATE OF OFFENSE : 05/06/2012

SUBMITTING AGENCY:

SUBMISSION DATE : 04/30/2015

COURT DATE :

DELIVERING OFFICERS SIGNATURE

PHONE No. : 410-222-8800

INVESTIGATED BY : HOLLIS, NATHANIEL R.

FORWARD REPLY TO : ROBINSON, CRAIG

Item Number: VV-03

Packaging: One sealed envelope with: 1 Swab(s) From Item

Item Description: Swab From Vehicle - Int. Rear Driver's Side Door

Collected: 05/06/2012 8:00

Address: 7009 Arundel Mills Circle, Hanover, Md

Exam: Forensic Biology

Item Number: VV-04

Packaging: One sealed envelope with: 1 Swab(s) From Item

Item Description: Swab From Vehicle - Int. Rear Passenger Side Door

Collected: 05/06/2012 8:00

Address: 7009 Arundel Mills Circle, Hanover, Md

Exam: Forensic Biology

Item Number: VV-05

Packaging: One sealed envelope with: 1 Swab(s) From Item

Item Description: Swab From Vehicle - Steering Wheel

Collected: 05/06/2012 8:00

Address: 7009 Arundel Mills Circle, Hanover, Md

Exam: Forensic Biology

Item Number: VV-06

Packaging: One sealed envelope with: 1 Control Swabs

Item Description: Control Swabs

Collected: 05/06/2012 8:00

Address: 7009 Arundel Mills Circle, Hanover, Md

Exam: Forensic Biology

Received by: Mull

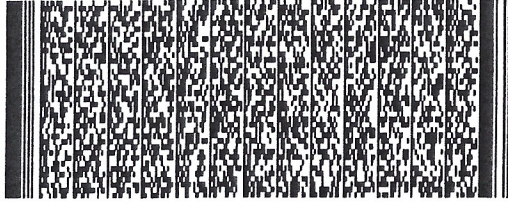
Date: 4/30/15

Alameda County
Submission Barcodes

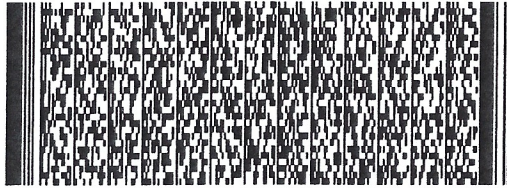
Agency Case #: 12-716431

Submission Number: 2

Submission Barcode # 1



Submission Barcode # 2



8495 Veterans Hwy.
Millersville, MD 21108

SPECIAL CASE CONSIDERATIONS

CASE INVOLVES A JUVENILE: NO

OFFENSE NEAR A SCHOOL/PARK ZONE

AA0122-15

Evidence Collection Unit 12-716431
Anne Arundel County Crime Lab - Biology

LABORATORY SUBMITTAL FORM

CASE No. : 12-716431

OFFENSE : 0005 DOA

DATE OF OFFENSE : 05/06/2012

SUBMITTING AGENCY :

SUBMISSION DATE : 04/22/2015

COURT DATE :

C. Robinson 9441 4/22/15

DELIVERING OFFICERS SIGNATURE

INVESTIGATED BY : HOLLIS, NATHANIEL R.

PHONE No. : 410-222-8800

FORWARD REPLY TO : ROBINSON, CRAIG

NAME / CDR #

(Name Type)	Case Name	(Gender)	(Race)	(DOB)	(CDR #)
Owner	MORRIS, MARGARITE				
Victim	Morris, Katherine Sarah	F	B	03/11/1990	

SUBMISSION TYPE:

COMMENTS TO LAB: Sgt. Poole has requested DNA analysis on items CS-01, CS-04, and V-05 due to a follow up investigation ordered by the command staff.

Items V-01, V-02, V-03, V-04, V-06, V-12, V-13, V-14, V-16, and V-17 do not need to be examined at this time.

LIST OF SPECIMENS: (INDICATE DEFENDANT/LOCATION IF KNOWN)

Item Number: CS-01 /

Packaging: One sealed envelope with: 1 Lighter
Item Description: lighter with black and red handle - front passenger seat
Collected: 05/06/2012 7:00
Address: 7009 Arundel Mills Circle, Hanover, Md
Exam: Forensic Biology

Item Number: CS-04 /

Packaging: One sealed envelope with: 24 Tablet(s)
Item Description: CVS Nighttime Sleep Aide Maximum Strength- Bottle for 32 soft gels, containing 24 blue pills
Collected: 05/06/2012 7:00
Address: 7009 Arundel Mills Circle, Hanover, Md
Exam: Forensic Biology

Item Number: V-01 /

Packaging: One sealed envelope with: 1 Known Blood Sample
Item Description: Known Blood Standard
Collected: 05/06/2012 15:05
Name: Katherine Sarah Morris
Exam: Forensic Biology

Item Number: V-02

Packaging: One sealed envelope with: 1 Head hair standard
Item Description: Head Hair Standard
Collected: 05/06/2012 15:05
Name: Katherine Sarah Morris
Exam: Forensic Biology

Received by: *[Signature]*

Date: *4/22/15*

8495 Veterans Hwy.
Millersville, MD 21108

SPECIAL CASE CONSIDERATIONS

CASE INVOLVES A JUVENILE: NO

OFFENSE NEAR A SCHOOL/PARK ZONE: NO

LABORATORY SUBMITTAL FORM

CASE No. : 12-716431

OFFENSE : 0005 DOA

DATE OF OFFENSE : 05/06/2012

SUBMITTING AGENCY:

SUBMISSION DATE : 04/22/2015

COURT DATE :

DELIVERING OFFICERS SIGNATURE

PHONE No. : 410-222-8800

INVESTIGATED BY : HOLLIS, NATHANIEL R.

FORWARD REPLY TO : ROBINSON, CRAIG

Item Number: V-03

Packaging: One sealed envelope with: 1 Fingernail Scrapings/Clippings

Item Description: Fingernail Clippings Right Hand

Collected: 05/06/2012 15:05

Name: Katherine Sarah Morris

Exam: Forensic Biology

Item Number: V-04

Packaging: One sealed envelope with: 1 Fingernail Scrapings/Clippings

Item Description: Fingernail Clippings Left Hand

Collected: 05/06/2012 15:05

Name: Katherine Sarah Morris

Exam: Forensic Biology

Item Number: V-05

Packaging: One sealed envelope with: 4 Oral swab(s)

Item Description: Oral Swabs

Collected: 05/06/2012 15:05

Name: Katherine Sarah Morris

Exam: Forensic Biology

Item Number: V-06

Packaging: One sealed envelope with: 1 Fingerprint & Palmprint cards

Item Description: Fingerprint & Palm Print Cards

Collected: 05/06/2012 15:05

Name: Katherine Sarah Morris

Exam: Forensic Biology

Item Number: V-12

Packaging: One sealed paper bag with: 1 Misc

Item Description: Right Hand Bag

Collected: 05/06/2012 15:05

Name: Katherine Sarah Morris

Exam: Forensic Biology

Item Number: V-13

Packaging: One sealed paper bag with: 1 Misc

Item Description: Left Hand Bag

Collected: 05/06/2012 15:05

Name: Katherine Sarah Morris

Exam: Forensic Biology

Received by: 

Date: 4/22/15

8495 Veterans Hwy.
Millersville, MD 21108

SPECIAL CASE CONSIDERATIONS

CASE INVOLVES A JUVENILE: NO

OFFENSE NEAR A SCHOOL/PARK ZONE : NO

LABORATORY SUBMITTAL FORM

CASE No. : 12-716431

OFFENSE : 0005 DOA

DATE OF OFFENSE : 05/06/2012

SUBMITTING AGENCY:

SUBMISSION DATE : 04/22/2015

COURT DATE :

DELIVERING OFFICERS SIGNATURE

PHONE No. : 410-222-8800

INVESTIGATED BY : HOLLIS, NATHANIEL R.

FORWARD REPLY TO : ROBINSON, CRAIG

Item Number: V-14

Packaging: One sealed paper bag with: 1 Misc

Item Description: Contact Lenses

Collected: 05/06/2012 15:05

Name: Katherine Sarah Morris

Exam: Forensic Biology

Item Number: V-16

Packaging: One sealed paper bag with: 1 Collected stain(s)-Swab(s)

Item Description: Collected stain(s)-Swab(s) - Right hand

Collected: 05/06/2012 15:05

Name: Katherine Sarah Morris

Exam: Fingerprints

Item Number: V-17

Packaging: One sealed paper bag with: 1 Collected stain(s)-Swab(s)

Item Description: Collected stain(s)-Swab(s) - Left hand

Collected: 05/06/2012 15:05

Name: Katherine Sarah Morris

Exam: Forensic Biology

Received by: _____ *mw*

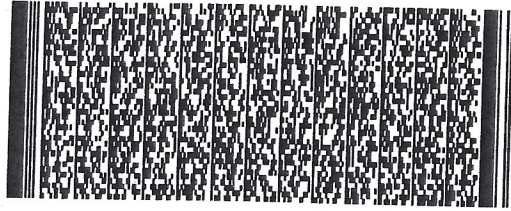
Date: 4/22/15

Submission Barcodes

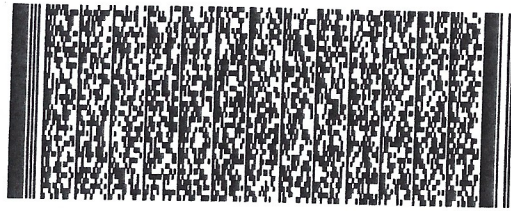
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Submission Number: 1

Submission Barcode # 1



Submission Barcode # 2



Submission Barcode # 3

