

1 IN THE UNITED STATES DISTRICT COURT
2 FOR THE DISTRICT OF COLORADO

3 Criminal Action No. 10-CR-00567-MSK

4 UNITED STATES OF AMERICA,

5 Plaintiff,

6 vs.

- 7 1. COSME MOISES GOMEZ-PAZ,
8 2. SERGIO ABRAHAM BELTRAN,
9 3. RAFAEL PELAYO-ESCARDA,
4. ESEQUIEL MEZA-TORRES, and
5. LOUIS ARMANDO CELAYA,

10 Defendants.

11 **REPORTER'S TRANSCRIPT**

12 (Rule 702 Hearing)

13
14 Proceedings before the HONORABLE MARCIA S. KRIEGER,
15 Judge, United States District Court for the District of
16 Colorado, commencing at 9:13 a.m., on the 27th day of May,
17 2011, in Courtroom A901, United States Courthouse, Denver,
18 Colorado.

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24 Proceeding Recorded by Mechanical Stenography, Transcription
25 Produced via Computer by Paul Zuckerman, 901 19th Street,
Room A259, Denver, Colorado, 80294, (303) 629-9285

APPEARANCES

1
2 JAMES BOMA, Assistant U.S. Attorney, 1225 17th Street,
3 Suite 700, Denver, Colorado, 80202, appearing for the
4 plaintiff.

5 SOLETTE MAGNELLI, Special Assistant U.S. Attorney,
6 U.S. Drug Enforcement Administration, Office of Chief Counsel,
7 8701 Morrisette Drive, Springfield, Virginia, 22152, appearing
8 for the plaintiff.

9 MITCHELL BAKER, Attorney at Law, Mitchell Baker &
10 Associates, 1543 Champa Street, Suite 400, Denver, Colorado,
11 80202, appearing for Defendant Gomez Paz.

12 JEFFREY EDELMAN, Attorney at Law, 19201 East
13 Mainstreet, Suite 203, Parker, Colorado, 80134, appearing for
14 Defendant Beltran.

15 ROBERT DRISCOLL, Attorney at Law, 455 Sherman Street,
16 Suite 310, Denver, Colorado, 80203, appearing for Defendant
17 Pelayo Escarda.

18 MATTHEW GOLLA, Assistant Federal Public Defender , 633
19 17th Street, 10th Floor, Denver, Colorado, 80202, appearing for
20 Defendant Meza Torres.

21 BRUCE BROWN, Attorney at Law, 1630 Miner Street, Idaho
22 Springs, Colorado, 80452, appearing for Defendant Celaya.

23 * * * * *

PROCEEDINGS

24
25 (In open court at 9:13 a.m.)

1 *THE COURT:* Please be seated.

2 The Court is convened this morning in Case
3 No. 10-cr-567, which is encaptioned the United States of
4 America vs. a number of defendants. I'll get entries of
5 appearance as I announce their names.

6 Let me get entries of appearance for the United
7 States.

8 *MR. BOMA:* Good morning, your Honor. Jim Boma,
9 appearing on behalf of the United States. And with me at
10 counsel table are Forensic Chemist Bryan Henderson, an
11 associate lab director from the San Francisco Lab with DEA;
12 Scott Oulton, Associate Deputy Assistant Administrator and also
13 a forensic chemist from DEA Headquarters in Washington;
14 Ms. Solette Magnelli, who is a senior attorney, Office of Chief
15 Counsel, with DEA. And she also entered her appearance as a
16 special assistant yesterday in this matter. And finally
17 Ms. Shana Irby, I-R-B-Y. She's a senior forensic chemist and
18 quality assurance specialist with the DEA lab in San Francisco.

19 *THE COURT:* Good morning and welcome.

20 Cosme Moises Gomez Paz.

21 *MR. BAKER:* Good morning, your Honor. Mitchell Baker.
22 I'm here with Mr. Gomez Paz.

23 *THE COURT:* Good morning and welcome.

24 Sergio Abraham Beltran.

25 *MR. EDELMAN:* Good morning, your Honor. My name is

1 Jeffrey Edelman, and I'm here with Mr. Beltran. And I
2 respectfully ask, request permission for my intern who assisted
3 in me in this matter, who is sitting in the back and will be a
4 first year law student Monday. May she have permission to join
5 me at counsel table?

6 *THE COURT:* No, sir. I'm going to deny your request
7 but not because I have any problem with your intern sitting
8 with you. It's just simply too crowded in the courtroom with
9 the number of defendants that we have.

10 *MR. EDELMAN:* We have made room for her with this
11 chair.

12 *THE COURT:* I understand. Thank you.

13 *MR. EDELMAN:* Thank you.

14 *THE COURT:* Rafael Pelayo Escarda.

15 *MR. DRISCOLL:* Good morning, your Honor. Bob
16 Driscoll, present with Mr. Pelayo, who is here at my side in
17 custody.

18 *THE COURT:* Good morning and welcome.

19 *MR. DRISCOLL:* Thank you, your Honor.

20 *THE COURT:* Esequiel Meza Torres.

21 *MR. GOLLA:* Good morning, your Honor. Matthew Golla
22 appearing on behalf of Mr. Esequiel Meza Torres, who is seated
23 to my left at counsel table.

24 *THE COURT:* Good morning and welcome.

25 And Luis Armando Celaya.

1 *MR. BROWN:* Good morning, your Honor. Bruce Brown,
2 appearing on behalf of Mr. Celaya, who is present in custody.

3 *THE COURT:* Good morning and welcome.

4 And if I've missed greeting anyone, good morning and
5 welcome to you.

6 I see that some of our defendants are assisted by our
7 court interpreters. Let me get their appearances, too.

8 *INTERPRETER CAHILL:* Good morning, your Honor. Susana
9 Cahill and Ruth Warner.

10 *THE COURT:* Good morning and welcome to you.

11 Does anyone object to the qualifications of Ms. Cahill
12 and Ms. Warner to serve in this capacity?

13 *MR. BOMA:* No, your Honor.

14 *MR. EDELMAN:* No.

15 *MR. GOLLA:* No, your Honor.

16 *MR. DRISCOLL:* No, your Honor.

17 *MR. BAKER:* No, your Honor.

18 *MR. BROWN:* No, your Honor. Thank you.

19 *THE COURT:* Thank you.

20 Would you please administer the oath.

21 (Interpreters sworn).

22 *THE COURT:* This is a 702 hearing. It concerns
23 opinions that have been proffered by a witness, Ms. Irby, on
24 behalf of the Government.

25 Mr. Boma, ordinarily we would have you identify those

1 opinions and I'd hear from the defendants as to their
2 objections to the foundation for the opinions; but it looks to
3 me as if you have done essentially that in the affidavit that
4 was attached to your motion at Docket No. 160; is that correct?

5 *MR. BOMA:* That's correct, your Honor. And the
6 Government would ask if the Court would take judicial notice of
7 the declaration with attachments.

8 *THE COURT:* For the defense?

9 *MR. EDELMAN:* Beltran would object.

10 *THE COURT:* Any other defendants?

11 *MR. BROWN:* I'm not sure I know what you're asking,
12 your Honor. Are you asking the procedure of offering the
13 affidavit for the foundational basis?

14 *THE COURT:* I'm not asking anything.

15 *MR. BROWN:* So I don't understand.

16 *THE COURT:* What the Government has said is that the
17 Government wants me to take judicial notice of the affidavit.

18 *MR. BROWN:* As a proffer; correct?

19 I don't object to that procedure.

20 *MR. DRISCOLL:* On behalf of Mr. Pelayo Escarda, we
21 have no objection.

22 *MR. BAKER:* On behalf before Mr. Gomez Paz, we would
23 object, your Honor.

24 *MR. GOLLA:* On behalf of Mr. Meza Torres, we would
25 object, your Honor.

1 *THE COURT:* All right.

2 In light of the objections that are made, we'll
3 proceed with the presentation of the testimony that would
4 constitute the proffer that the Government is intending to
5 make.

6 *MR. BOMA:* Your Honor. We'd call Forensic Chemist
7 Irby to the stand.

8 (**Shana Irby** was sworn.)

9 *THE COURTROOM DEPUTY:* Please state your full name for
10 the record and spell your first and last name for the record.

11 *THE WITNESS:* My name is Shana Irby. First name is
12 S-H-A-N-A. Last name is I-R-B-Y.

13 *THE COURT:* You may proceed.

14 *MR. EDELMAN:* Excuse me, your Honor. On behalf of
15 Mr. Beltran, I would like to insert an objection to this
16 testimony and this matter proceeding on the basis of law of the
17 case, that concept. And I believe it's issue preclusion. It's
18 already been -- this has already been litigated once before.
19 And I understand that you've made your ruling, but I don't
20 believe anybody raised those legal concepts in their responses.

21 *THE COURT:* Mr. Boma, do you care to respond?

22 *MR. BOMA:* Yes, your Honor. We basically have
23 proffered a new witness who has conducted an independent
24 analysis of the drugs at issue here. And we're not relying on
25 the testimony in the previous 702 hearing; so we would like to

1 begin anew, if we could, and start with this witness.

2 THE COURT: Thank you.

3 Reply?

4 MR. EDELMAN: As I've stated in my reply, losing at
5 one hearing in the same case doesn't necessarily give a party a
6 second bite of the apple or a third bite or a fourth bite of
7 the apple or those opportunities to continue to try to get
8 their evidence. If this hearing was held during trial, it's my
9 suspicion, without trying to predict your rulings or any
10 judge's rulings, that it would have caused too much delay and
11 would probably have been disallowed.

12 THE COURT: Thank you.

13 This hearing is conducted under Rule 104 of the
14 Federal Rules of Evidence in order to determine the
15 foundational adequacy of an opinion in application of Rule 702.

16 I overrule the objection that is made here because the
17 prior determination made by the Court concerned another
18 opinion. It is not law of the case, it is not subject to
19 collateral estoppel, it is not subject to *res judicata*. There
20 was no determination with regard to the admissibility of this
21 opinion.

22 In my prior ruling with regard to the Government's
23 motion *in limine*, I found that the tendering of this opinion
24 was untimely but no prejudice had been shown. And as a
25 consequence we proceed with a new opinion, testing its

1 foundational sufficiency under Rule 702 in accordance with
2 Rule 104 of the Federal Rules of Evidence.

3 Any need for clarification or further explanation?

4 *MR. BOMA:* No, your Honor.

5 *MR. EDELMAN:* No, your Honor. Thank you.

6 *THE COURT:* Thank you. You may proceed.

7 *MR. BOMA:* Thank you, your Honor.

8 **DIRECT EXAMINATION**

9 *BY MR. BOMA:*

10 Q. Good morning, Ms. Irby.

11 A. Good morning.

12 Q. Ma'am, by whom are you employed?

13 A. I work for the Drug Enforcement Administration's Western
14 Laboratory in San Francisco, California.

15 Q. And how long have you been so employed?

16 A. Since November of 2003.

17 Q. All right. And what is your title, if you will, with that
18 laboratory?

19 A. Excuse me. I'm a senior forensic chemist as well as the
20 quality assurance specialist for the laboratory.

21 Q. Could you summarize for the Court, ma'am, your educational
22 background and experience, including any experience prior to
23 working with the DEA?

24 A. I have a bachelor of arts in chemistry and a bachelor of
25 science in biology both from Central Washington University in

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1 Ellensburg, Washington. Those were obtained in 1993.

2 And prior to working for the Drug Enforcement
3 Administration, I worked at a company called John I. Haas
4 Incorporated -- that's H-A-A-S. And it was an analytical lab
5 where I analyzed hops using good laboratory practices, the same
6 techniques, the same instrumentation, as I currently use with
7 the DEA.

8 Q. All right. And since you joined the DEA, what type of
9 specialized training did you receive, starting with your
10 initial training and then any follow-on training?

11 A. I went through the basic chemist's program at headquarters,
12 our headquarters in Quantico, Virginia, as well as I was
13 trained by a senior forensic chemist. It was about a
14 four-month program.

15 In that program, we learned the theory and -- with the
16 instrumentation that we use, as well as all of the information
17 about controlled substances: for example, methamphetamine,
18 cocaine, heroin. So the training involved the procedures and
19 the analysis and the techniques that you use in the laboratory.

20 And when that training was finished, I was competency-
21 tested; and I've been doing analysis ever since.

22 Q. All right. And approximately how many methamphetamine
23 exhibits has DEA done, say, in the last seven years, or '03 to
24 '10?

25 A. Since I have been with the Drug Enforcement Administration,

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1 they've done over 60,000 exhibits.

2 Q. In terms of your experience working in the laboratory, how
3 many controlled substance exhibits have you analyzed?

4 A. I've analyzed over 2,300.

5 And let me clarify. I'm sorry. I said over 60,000
6 exhibits. Those were 60,000 methamphetamine exhibits.

7 Q. All right. And that's nationwide, based upon your
8 research?

9 A. Yes.

10 Q. All right. How many methamphetamine exhibits specifically
11 have you analyzed?

12 A. So I personally have done over 2,300 exhibits; and of
13 those, over 700 have been methamphetamine.

14 Q. You said you are a quality assurance specialist as well as
15 a senior chemist?

16 A. Yes.

17 Q. When were you promoted to those positions?

18 A. In February of 2009.

19 Q. And what is the distinction between a senior chemist and a
20 junior chemist or a chemist?

21 A. When you become a senior forensic chemist, you have learned
22 all of the instrumentation, you have intimate knowledge with
23 all of the instrumentation and the drugs that you analyze, and
24 you have a specialty. And my specialty is quality assurance.

25 Q. And what type of training did you receive to be -- I take

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1 it that's collateral duty in addition to being a senior
2 chemist?

3 A. Yes, I'm still a forensic chemist.

4 Q. All right. So you still do lab work, if you will?

5 A. Yes.

6 Q. All right. What training did you receive for the quality
7 assurance specialist designation?

8 A. I have taken the American Society of Crime Laboratory
9 Directors Laboratory Accreditation boards, preparation course
10 for their International Program, as well as I have taken their
11 assessor training course.

12 And then I had a background prior with John I. Haas
13 Incorporated. I had quality assurance duties there as well.

14 So no specific on-the-job training, but I have taken
15 these outside courses.

16 Q. All right. Is the American Society for Criminal [sic]
17 Laboratory Directors: Is that known by an acronym?

18 A. Yes. That's ASCLD/LAB.

19 Q. And can you spell ASCLD? Lab, I believe, is LAB.

20 A. A-S-C-L-D slash L-A-B.

21 Q. In terms of your quality assurance responsibilities, what
22 do your responsibilities in the lab cover?

23 A. I am in charge of making sure that the laboratory -- All of
24 the work that leaves the laboratory is of high quality
25 standard. And in doing so, I answer any questions from any of

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1 the chemists pertaining to quality issues. I also do audits,
2 perform internal audits. I'm involved in external audits; and
3 I also make sure that our laboratory is up to current ASCLD/LAB
4 standards as well as other entities, outside entities such as
5 the Scientific Working Group for the Analysis of Seized Drugs,
6 which the acronym is SWGDRUG, which is S-W-G-D-R-U-G.

7 Q. All right. And what is that organization, since you
8 brought it up?

9 First of all, let's back up and talk about ASCLD.
10 What is the function of that organization and what do they do?
11 A. ASCLD/LAB is an accrediting body. And ASCLD/LAB, the
12 International Program, comes into our laboratory and does an
13 independent audit to make sure that our laboratory is in
14 accordance with two documents. And those two documents are the
15 ISO 17025 documentation, which is for the analysis -- or the
16 testing -- excuse me -- testing and calibration laboratories.
17 And then they have -- Because they are forensic-specific, they
18 have gone beyond the 17205 and said we also want you to adhere
19 to these ASCLD/LAB supplemental requirements.

20 So ASCLD/LAB comes to our laboratory, and they do an
21 independent audit. They look at our policies and procedures
22 and make sure that we are matching those two documents that I
23 spoke about. And then they look for evidence that we are
24 following those policies.

25 Q. And could you very briefly summarize the ASCLD/LAB

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1 International standards and then the supplemental -- I don't
2 know if you call them standards or recommendations?

3 A. It is supplemental requirements.

4 ASCLD/LAB is -- the purpose of having them come in,
5 it's actually -- it's not a necessity. We choose to do them.
6 It's not a requirement to be assessed or have an assessment by
7 them. It's a choice that DEA has made.

8 So basically they come into the lab, they do all of
9 the assessments to requirement. They look at our entire
10 management. That's including our management system,
11 documentation, our protocols, procedures. They look at
12 environmental conditions. They look at every aspect of our
13 laboratory and make sure that we adhere to those ISO 17025
14 documents.

15 And their supplemental is labeled exactly the same as
16 ISO. They just say, ISO has done a great job for testing
17 laboratories; but we're a forensic laboratory, so let's go a
18 little bit beyond. So we also have to adhere to those
19 supplemental requirements.

20 Q. Could you summarize what the more stringent requirements
21 are just briefly?

22 A. The more stringent requirements? I'm sorry.

23 Q. In the supplemental to the ISO 17025?

24 A. Let me think for an instance.

25 Honestly, offhand, I can't think of anything. But

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1 they might say, for example, Make sure your coffee is, you
2 know, at such as such temperature. And ASCLD/LAB will say,
3 Yeah, that's good, it should be at that temperature; but we're
4 going to say it actually has to be a little bit hotter than
5 that.

6 Q. Okay. So would it be accurate to state that the
7 supplemental fleshes out the ISO 17025?

8 A. It's more like it adds to it. 17025 is still there. It is
9 the requirement that you have to follow, but you also have to
10 go a little bit beyond that. It's not saying one is better
11 than the other, but they work in coordination with each other
12 to make your system the best system possible.

13 Q. All right. And based upon your knowledge of the -- your
14 place of employment, did ASCLD certify your lab?

15 A. Yes.

16 Q. And when was it first certified?

17 A. The initial certification was in 2005, and we were
18 reaccredited in February of 2010.

19 Q. And I believe there was a slightly different
20 qualification -- excuse me.

21 I believe it was ASCLD/LAB International, as opposed
22 to the former ASCLD/LAB?

23 A. Yes. Prior to 2005, we were also accredited by ASCLD/LAB;
24 but that was to a different document. It was called the legacy
25 document. But then they went to the International, which is

1 the 17 -- the ISO 17025 document.

2 Q. All right. And what about the International as opposed to
3 the ASCLD/LAB -- Is that a -- is that significant in any way?

4 A. ASCLD/LAB International accredits your laboratory to those
5 two documents I spoke of earlier, the ISO 17025 and their own
6 supplemental requirements. That is what ASCLD/LAB

7 International -- They have an accrediting body -- those are the
8 two documents that they look at in your laboratory.

9 Q. And ASCLD/LAB: Are they internationally recognized?

10 A. Yes.

11 Q. Do they, in fact, set the standard in the field of forensic
12 chemistry?

13 A. Yes.

14 Q. You talked about an inspection, I believe, or certification
15 in 2005, and then recertification, if you will, in 2010; is
16 that correct?

17 A. Yes.

18 Q. Does ASCLD/LAB do any annual assessments or perform any
19 other assessments?

20 A. Yes. They do a surveillance visit. And so that's where
21 they come into the laboratory and they do an abbreviated full
22 assessment. So they come into the laboratory and they look at
23 just separate parts. That's like spot-checking. And that's
24 done annually, as well as we do internal audits ourselves. And
25 we generate a report once a year that is sent to the ASCLD

1 body.

2 Q. All right. So you submit the required paperwork and then
3 they send an assessor to actually come to the lab?

4 A. It may not be in that order; but once a year, a report is
5 sent and they do the surveillance visits.

6 Q. All right. How about the five-year accreditation
7 examination, if you will? How big is the team that comes into
8 your lab and what's it comprised of?

9 A. The people that came to our laboratory in January of 2010
10 to do the reassessment, the reaccreditation: There was a team
11 of two forensic chemists, a fingerprint specialist, and then
12 they had a lead assessor, a team leader; so there were four
13 people that came into the laboratory.

14 Q. In terms of focusing on the forensic chemistry expert, did
15 that individual, man or woman, interview chemists?

16 A. Yes.

17 Q. Was paperwork reviewed as well?

18 A. Yes. They look at all of your documentation and then they
19 also talk to people to make sure you're doing what you say you
20 do.

21 Q. And what were the results of that inspection in 2010?

22 A. We were reaccredited in February of 2010.

23 Q. As part of your quality assurance specialist duties, you
24 mentioned internal assessments or audits.

25 A. Yes. We do -- we have internal audits that we look at our

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1 entire system once a year to make sure that we are doing things
2 the way that we say we're doing and the way we're supposed to
3 be doing them, as well as we have -- it's internal to DEA, but
4 it's external to our Western Laboratory. People from our
5 headquarters office come, and they do an independent inspection
6 as well.

7 Q. All right. And are you checking not just the
8 administrative or procedural side, are you also looking at --
9 in your duties at technical analysis?

10 A. Yes.

11 Q. All right. And what does that consist of? What are you
12 reviewing in general?

13 A. When a technical review of case work is done, you are
14 looking to make sure that all the policies that are in place
15 are followed and they were done in that specific case.

16 Q. All right. And do you or another individual at your
17 laboratory conduct monthly and quarterly checks?

18 A. I do monthly checks of all -- I do a spotcheck of case work
19 that goes out of the laboratory. I do that monthly of one per
20 chemist in the laboratory.

21 I also do quarterly audits of different portions of
22 our management system, as well as I assist in the internal
23 audit and the -- I assist in preparation for the external
24 audits; but every piece of evidence or every exhibit that
25 leaves the laboratory has a technical and an administrative

1 review by a supervisor and the laboratory director.

2 Q. And including yourself, when you -- you work the bench or
3 the lab?

4 A. Yes.

5 Q. And who generally approves your reports or reviews and
6 approves those?

7 A. My supervisor does that.

8 Q. All right. In this instance, I believe someone else
9 approved it, reviewed and approved it.

10 A. No, my supervisor, my actual supervisor, did the technical
11 review. My actual supervisor also did the administrative
12 review because it was the associate lab director of the
13 laboratory.

14 Q. And who is that individual?

15 A. That's Bryan Henderson.

16 Q. Going back to ASCLD, are there any restrictions on what you
17 can do as an ASCLD assessor? I assume that's comparable to an
18 inspector. Is that accurate?

19 A. Yes, yes. I took a course in January of this year to
20 become an ASCLD/LAB assessor. When you're finished with that
21 course, you take or you fill out an ethics of conduct
22 paperwork. And in doing so, you say that you are going to
23 independently look at another laboratory. You are not going to
24 put your own opinions on what you do. You're going to go into
25 their laboratory, you're going to make sure that their policy

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1 adheres to the two policies, the ISO 17025 and the supplemental
2 documents; and then you're going to say yes or no, did they
3 follow those policies.

4 Q. All right. So you can't recommend better practices, for
5 instance, or this is the way we do it at DEA, something like
6 that.

7 A. You're definitely discouraged from saying, Oh, we do it
8 this way. That is not how an assessor is supposed to assess a
9 lab. You say -- you would say you do not or you do follow this
10 policy.

11 Q. All right. And have you participated on any teams yet
12 doing --

13 A. No, I haven't had the opportunity.

14 Q. All right. But you do have the training and background for
15 it?

16 A. I have the training and background, yes.

17 Q. Okay. Well, SWGDRUG: Are you familiar with how many
18 people are with that organization?

19 A. Yes. They have a core group of more than 20 forensic
20 chemists that get together. And they come up with
21 recommendations that will be accepted internationally for the
22 analysis of drugs.

23 Q. All right. And what are the requirements under ASCLD/LAB,
24 if any, regarding tests of controlled substances?

25 A. SWGDRUG requires, in order to identify a controlled

1 substance, that you must do at least two tests. And of those
2 two tests, you must have one -- one confirmatory and one
3 separation technique -- or I'm sorry -- I'm sorry. One
4 confirmatory and one presumptive test.

5 Q. All right. What's an example of a presumptive test?

6 A. That would be a color test or a reagent test or a field
7 test that an agent does in the field.

8 Q. Regarding methamphetamine, what reagent is commonly used?

9 A. There are more than one; but the most common one would
10 probably be the Marquis.

11 Q. And if you get a positive indication on that -- in other
12 words the color change --

13 *MR. EDELMAN:* I'm going to object.

14 *BY MR. BOMA:*

15 Q. -- what does that mean to you?

16 *MR. EDELMAN:* Objection. Lack of foundation as to a
17 color change.

18 *THE COURT:* The Rules of Evidence do not apply to
19 Rule 104 hearings by definition. I'll note your objection for
20 the record.

21 *MR. EDELMAN:* Thank you.

22 *BY MR. BOMA:*

23 Q. You may answer, ma'am.

24 A. You get a color change if you put the substance in this
25 reagent.

1 In my analysis, I ran it against a standard so that
2 you could see a color change to what a known controlled
3 substance would be.

4 Q. Okay. Could you briefly summarize for the Court what an
5 unknown is, blank or negative control and a positive control?

6 A. Okay. Controls are something that are used in a laboratory
7 to show that your -- that what you're doing is -- I'm sorry.
8 Let me think about this for a minute.

9 I'm going to go individually.

10 A positive control is something there to show that
11 your instrumentation is working as it should be.

12 Q. All right. And while we're on positive controls, what do
13 you use? Is it called an authenticated standard or some
14 terminology like that?

15 A. An authenticated standard could be used for a positive
16 control. You run a sample, you know what the sample is that
17 you place on the instrument or introduce into the instrument,
18 and you get a result, a known result.

19 There are other ways to evaluate if your
20 instrumentation is working or not, but that is one way.

21 Q. Okay. Regarding the authenticated standards, how are those
22 obtained by your laboratory, for instance?

23 A. Authenticated standards we get in our laboratory come from
24 two different sources. That would either be our special
25 testing and research laboratory, or from a commercial source.

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1 So either one of the -- those two places, it comes to us. It's
2 already been tested by those two places, it comes into our
3 laboratory, and then we verify that it is what it is. We just
4 don't say, Hey, we got this, let's use it. Comes into our
5 laboratory, we verify that it is what it is, and it becomes
6 reference material.

7 Q. What about a negative control or blank?

8 A. A negative control is to show that the reagents and the
9 instrumentation that you use in the unknown is not showing any
10 contamination; so another word for it would be a "blank." And
11 when a blank is run, you are getting baseline data or you're
12 getting information which from that as well. So this could
13 also be an indication that your instrumentation is working
14 correctly.

15 Q. We talked about a presumptive test. Could you give me one
16 example of a confirmatory test? I know there are probably 10
17 or 12, but give me an example?

18 A. Our laboratory, the DEA, says there are four -- four ways
19 that you can -- or we have four instruments that are
20 confirmatory. And an example of that would be mass
21 spectrometry.

22 Q. Are you familiar with the ASD?

23 A. Yes. That is the -- that is the Drug Enforcement
24 Administration's Analytical Sufficiency Document.

25 Q. And what does that cover?

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1 A. There is actually numerous documents in the laboratory, the
2 Analytical Sufficiency Document being one of them that in using
3 these documents it gives the protocol or the procedures for
4 running your analysis.

5 Q. All right. And chemists adhere to those standards?

6 A. That's correct.

7 Q. What are the other documents that you mentioned?

8 A. The Analysis of Drugs Manual or the Evidence Sampling Plan.
9 All of those in themselves give the requirements or the
10 procedures and requirements for the analysis in the Western --
11 or throughout the DEA.

12 Q. And when you do your quality assurance checks, monthly and
13 quarterly, are you seeing if the lab chemists are adhering to
14 those standards?

15 A. Yes.

16 If I can just clarify, our Analytical Sufficiency
17 Document is actually the document that tells you which
18 instrumentation that you need to use. So SWGDRUG
19 recommendations, like I said earlier, say that you need to do
20 one confirmatory and one presumptive.

21 The DEA goes a little bit beyond that and says you've
22 got to do one confirmatory and then you've also got to do a
23 separation technique. And what I mean by "separation
24 technique" is a technique that tells you if there is more than
25 one substance in a mixture.

1 Q. All right. So a polydrug exhibit, where it contains more
2 than one controlled substance?

3 A. It could be a controlled substance. It could also be a
4 noncontrolled substance. But it just tells you if there is
5 more than one thing in that sample.

6 Q. Would that be something like a cut or adulterant?

7 A. It could be.

8 Q. Could that be something that you might find?

9 A. It could be.

10 Q. Regarding the use of a standard, have you ever seen the
11 literature or in your education or practice a requirement of
12 using a standard each and every time you perform an analysis?

13 A. No.

14 Q. All right. For some tests, do you use a standard?

15 A. Yes.

16 Q. And for other tests, what do you use?

17 A. It depends on what I'm doing with the analysis. Sometimes
18 our reference standard is just there to compare to your unknown
19 so that you can make an identification. Sometimes positive --
20 or the reference standard is there -- for instance, in my
21 analysis, you need to run a reference standard at the same time
22 when you're doing quantitation or you're getting a purity of a
23 substance. You would always have that run on the same day.

24 Q. And the standard would have a known composition in terms of
25 controlled substance and also a concentration or purity?

Shana Irby - Direct

1 A. Not necessarily. We have specific drugs in our laboratory
2 that are used for quantitation or purity, and that has a known
3 value with it. We also have other substances in the
4 laboratory: say, for instance, caffeine. That is not something
5 that we commonly -- it is a reference standard, but it's not
6 something that we commonly get a purity for if we find that in
7 a sample; so that doesn't have a purity level with it. So some
8 of them can and some of them can't. Obviously, if we're using
9 it for quantitation or purity, there would be that known --
10 that known concentration in that standard.

11 Q. All right. Turning to the drugs in this case, did you
12 perform forensic chemical analysis of the exhibits in this case
13 or the exhibit?

14 A. Yes, yes.

15 Q. All right. How did you receive the exhibit in this case
16 for testing? Could you go through the procedure that you went
17 through to obtain access to the drugs?

18 A. Sure. Our drugs are kept in an evidence vault, and so I
19 don't have access to that evidence vault. The evidence
20 technicians and the managers of the laboratory do. So I went
21 and told the manager that I needed this exhibit, and they
22 checked it out of the vault. And it came into my possession.

23 Now, the evidence has a lab number on it which is a
24 unique bar code number; so when it's scanned out to me, they
25 know that that drug is now in my possession.

Shana Irby - Direct

1 I checked it out from the vault; and the first thing I
2 do once I receive it is I check for evidence of tampering and
3 get a gross weight. Now, that gross weight is the entire
4 package, including all of the packaging materials, the outside,
5 heat-sealed evidence bags inside.

6 So the first thing I did is I went ahead and weighed
7 those two. And I noticed that there was a difference between
8 the weight of when it was last sealed and the weight of when I
9 sealed that. And when that happens, you get it witnessed by
10 another forensic chemist. And I did in this case.

11 Q. All right. And what do you attribute that -- first of all,
12 was there any evident tampering with the sealed evidence bag
13 when you received it?

14 A. No.

15 Q. All right. But the way -- would you describe that as
16 significant, or marginal, or how would you describe that?

17 A. It was just a little different.

18 Q. And what do you attribute that to based upon your
19 experience and training?

20 A. I attribute it to solvent loss.

21 Q. And could you explain and summarize what that means?

22 A. A lot of times, especially when we get large seizures
23 there -- the samples that come in look a little bit moist or
24 they look a little bit wet, so they lose that moisture; and
25 that is the solvent loss.

1 Q. All right.

2 A. So the weight gets a little bit lower.

3 Q. And that can even happen when they're double-sealed, if you
4 will, in plastic bags?

5 A. Yes.

6 Q. Okay. You talked about the gross weight. What did you do
7 after you took the gross weight of the packages?

8 First of all, could you describe -- Let me back up one
9 question. The barred coding number: Is that a unique
10 identifier?

11 A. Yes.

12 Q. Does that number appear on your laboratory reports?

13 A. Yes.

14 Q. And so each and every one would have that bar code number?

15 A. Yes.

16 Q. All right. And when you receive these exhibits, I believe
17 there were two exhibits inside the outer evidence bag, if you
18 will.

19 A. Well, what I received was two heat-sealed evidence
20 envelopes. Okay. Inside the first one was two Ziploc bags.
21 One was smaller than the other. The smaller Ziploc bag was
22 labeled "composite," and it had a fine-ground white powder in
23 it. The other was labeled "threshold." And inside of those
24 Ziplocs was another Ziploc and that was labeled "threshold" and
25 a white crystalline substance.

Shana Irby - Direct

1 In the second heat-sealed evidence envelope, there
2 were two larger Ziploc bags. And inside of those was yet
3 another Ziploc bag and finally containing the white crystalline
4 substance. And each one of those bags were labeled "bulk."

5 Q. All right. And did you designate those for the purposes of
6 your analysis -- did you give them separate numbers, if you
7 will?

8 A. I did. I ended up doing what you call a "split" exhibit.
9 And the three larger bags, one being labeled "threshold," the
10 other two labeled "bulk," I called Exhibit 1.01. So when it
11 came to me, it was Exhibit 1. I now am going to have two
12 separate ones. And the second one, 1.02, was the smaller bag
13 that was labeled "composite."

14 Q. All right. And what does "bulk" mean in laboratory
15 parlance?

16 A. Bulk exhibit in the laboratory is something that is large.
17 Okay. And in this case, for methamphetamine, anything over two
18 kilos is going to be considered a bulk. And what we do -- or
19 our requirement is to preserve two kilos and under; and then
20 anything above that two kilos will eventually be burnt. Its
21 not retained for analysis. And so that is the bulk portion.

22 Q. All right. And the other is "threshold" that you
23 discussed?

24 A. Correct.

25 Q. And the third was labeled "composite"?

1 A. Yes.

2 Q. Or the other exhibit?

3 A. Yes.

4 Q. What does that mean to you, based upon your training?

5 A. A composite is something that is representative of the
6 whole. And it also is a homogenous material, which means that
7 it's the same throughout the whole Ziploc bag that it was in.

8 Q. All right. Is -- is that the most accurate way to perform
9 the tests with the composite, in your opinion, based on your
10 expertise?

11 A. Tests can be run prior to that; but in order to get a
12 purity, that is by far the best way to get a representative
13 sample of the whole.

14 Q. All right. Excuse me. I'm going to drop back. I forgot
15 something on the confirmatory tests that you were talking
16 about.

17 A. Yes.

18 Q. You said use of a standard is one method of confirming the
19 unknown substance.

20 A. No, you have to use reference material or the use of a
21 standard. You have to do that to identify a controlled
22 substance.

23 I think what you're getting at -- What I said earlier
24 is there is a positive control and a negative control. Both of
25 those are an indication that your instrument is functioning

Shana Irby - Direct

1 properly, as well as experience and familiarity with an
2 instrument, because if you've ever seen the instrument we work
3 with and the software that we work, with there is a lot of
4 bells and whistles on it. So as soon as I walk up to an
5 instrument, I know -- I generally know if it's working or not.

6 Q. All right. And I believe there are external documents or
7 reference publications you can refer to in some of your --
8 those are available for comparison?

9 A. Correct. If you're making an identification of -- a
10 comparison of your unknown to a standard, you can also use
11 literature or reference libraries for that.

12 Q. All right. And could you summarize just very briefly what
13 information is contained in those references? In other words
14 if you ran a GCMS, would they have something that would --

15 A. They would have the mass spec. portion of that substance in
16 their literature.

17 Q. All right. And is it the same with the other tests with
18 the exception of the presumptive tests?

19 A. For confirmatory tests, yes.

20 Q. All right. All right. Back to the weighing, if I could:
21 After you mark the exhibits for your purposes in the lab, what
22 did you do next?

23 A. I got a net weight. And what a net weight is is just the
24 substance itself without the packaging. So for Exhibit 1.01, I
25 currently have three Ziploc bags with the white crystalline

1 substance. So I weighed each bag individually, and then I took
2 it off of the balance or scale and I dumped it all out. And
3 then I weighed the empty bag. And the difference between those
4 two is the actual amount of substance that I have.

5 Q. All right. Do you have your laboratory report in front of
6 you?

7 A. I do.

8 Q. Would looking at that refresh your recollection?

9 I believe the smaller exhibit, the composite, was
10 designated at 1.02?

11 A. Yes. I'm saying in Exhibit 1.01, there were three separate
12 bags, three separate Ziploc bags. I put each individually on
13 the balance, and then took it off.

14 And then I did that for the second one; and I emptied
15 it, and I got the net weight. Okay.

16 I did that as well for Unit 1.02, which is the
17 composite. It's the one little Ziploc bag with the finer
18 crystalline substance. I put that on the balance, I took it
19 off of the balance, emptied it out, put the empty bag on there,
20 and got what's called a "net weight." At this point I have
21 four bags, the one labeled "composite," one labeled
22 "threshold," and two labeled "bulk"; however, I have split
23 these into two different exhibits. The one labeled "composite"
24 is all by itself. The other three bags I'm calling
25 Exhibit 1.01.

Shana Irby - Direct

1 Q. Okay. We'll get to the weight at the conclusion of your
2 testimony, what your findings were in that regard.

3 A. Okay.

4 Q. Turning now to the tests that you performed in the
5 laboratory, I believe the first one you performed was a Marquis
6 reagent presumptive color test.

7 A. Before I actually began any of the testing, I processed --
8 I did a little bit of processing, because in Exhibit 1.01, I
9 have three units. Now, I need to test each one of those three
10 individually to see that they all contain the same substance.
11 So the way I did that was I poured out the substance into a
12 cone. And you could think of that as like a birthday cap for a
13 little child's birthday. So I put it into a cone and I
14 randomly sampled from five different areas. And then I put
15 that into a mortar and pestle. And then I ground that up to
16 the size of a 20-mesh sieve. And you can think of a sieve as
17 like a flower sifter.

18 Okay. So I did that for each one of those units. I
19 made a cone for the one labeled threshold and I randomly
20 sampled. I did the same thing for the first one labeled
21 "bulk," and I did the same thing for the second one labeled
22 "bulk."

23 And then I also took Exhibit 1.02 and I also ground
24 that up in the mortar and pestle to a 20-mesh sieve size. So
25 at this point, I have four different mortars and pestles, and

1 then I proceeded with my analysis.

2 Q. And how does Marquis reagent test -- What do you physically
3 do? Can you explain what that looks like and what you do?

4 A. So the first test I do was the Marquis test. And that's
5 going to give you a presumptive indication of what you have.
6 So I put that on a spot plate, which you could think of that in
7 general terms takes an ice cube tray. So I put the Marquis
8 reagent in six different wells. Okay. The first well is my
9 negative, my blank. Okay. The second, third, and fourth well,
10 I individually put from those three separate units of
11 Exhibit 1.01. The fifth well, I put Exhibit 1.02, which is
12 just the one bag. And then the very last well, the sixth well,
13 I used a reference material. I used Methamphetamine Standard
14 No. 267.

15 So what happens is there is a color change into --
16 there was a color change in the four wells, the three from
17 Exhibit 1.01 and the one from Exhibit 1.02. That color change
18 was orange to a brown color.

19 And the Methamphetamine Standard No. 267 also changed
20 that same color.

21 So in this instance, or the -- I also have the one
22 well that is a negative. And -- excuse me -- so in this case,
23 I actually have a positive control and a negative control.

24 Q. Okay. And I assume the negative was negative?

25 A. Yeah. There was no color change.

1 Q. You don't use charts or tables to compare the colors that
2 you achieved in the reagent testing?

3 A. Well, in this instance there is no need for that. I
4 actually ran a standard, so I'm using that for my comparison
5 because it's a known methamphetamine.

6 Actually, color charts are ill-advised because the
7 Marquis color reagent could actually degrade over time; so if
8 you're looking at a color chart, you know nothing about the
9 where that color came from. You don't know when the reagent
10 was made, you don't know -- you don't know anything about that.

11 Also, with your samples, you don't know if there is
12 any sort of cut or you have a very, very dilute sample. So the
13 best way to do that is with the actual drug, like I did.

14 Q. Okay. And with the standard you're basically using the
15 same reagent; so if it's not brand-new, if you will, or fresh,
16 you're still going to get results from the reagent?

17 A. Right. The color change is going to be what it is for that
18 standard.

19 Q. Okay. And the Marquis again is a presumptive test?

20 A. That's correct.

21 Q. What does that do for you? In other words, what did you
22 find here and what did you conclude based just on the reagent
23 test?

24 A. I found in each unit of 1.01 and in 1.02 that there was an
25 indication of a phenethylamine.

Shana Irby - Direct

1 Q. What are -- I can't say that.

2 A. Phenethylamine. It could be a methamphetamine or
3 amphetamine.

4 Q. All right. So is it accurate to state that the Marquis
5 test narrows the field for you?

6 A. Yes. It gives me a class of drugs.

7 Q. How long has the Marquis reagent test been used in DEA
8 laboratories?

9 A. It has been used since its inception in 1973, since DEA's
10 inception.

11 Q. Is that technique subject to peer review?

12 A. Yes.

13 Q. All right. And have there been articles written in
14 professional journals in the field of forensic chemistry
15 regarding the use of the Marquis reagent test?

16 A. Yes.

17 Q. And by reference, Attachment 1 to your declaration are the
18 lab results -- excuse me -- that's your *curriculum vitae*.

19 A. Attachment 1, yes, is my CV.

20 Q. Attachment 2: What is that?

21 A. Attachment 2 is basically all of my case notes and data
22 from this particular -- or these two particular exhibits.

23 Q. Of all the tests you conduct?

24 A. Yes.

25 THE COURT: Mr. Boma, for your record, we probably

1 need to specify what the attachment is to.

2 *MR. BOMA:* Your Honor, it was attached initially to
3 Document No. 160. For some reason, that document did not get
4 header numbers when it was filed in ECF; so it was refiled as
5 Document 162-1, so that we would have header information. So
6 either of those documents, the exhibit attached, they're
7 identical, your Honor.

8 *THE COURT:* Okay. So the witness is referring to
9 Attachment 2 to Docket No. 162-1?

10 *MR. BOMA:* Yes, your Honor.

11 *THE COURT:* Okay. Thank you.

12 *MR. BOMA:* And I better clarify for the record. Thank
13 you, your Honor.

14 *BY MR. BOMA:*

15 Q. Exhibit 1: Is that attached to the file declaration in
16 this case?

17 A. Yes.

18 Q. And Exhibit 3: Could you summarize what that is?
19 Exhibit 3 -- or excuse me Attachment 3 to Document 162-1.

20 A. Attachment 3 is a bibliography showing that the methodology
21 that I used is scientifically sound. And it's been
22 peer-reviewed in this field.

23 Q. All right. And that relates to all the tests --

24 A. Yes.

25 Q. -- that you are going to be testifying to?

1 And I assume that's just a sampling of the literature,
2 not an exhaustive list?

3 A. Yes. An exhaustive list is in the thousands.

4 Q. Okay. But in your view, those are representative articles?

5 A. Yeah. It's just a quick, representative sampling of what
6 you can find out there.

7 Q. What did you do next after you had the results from your
8 Marquis reagent test?

9 A. When the Marquis gave me indication of a phenethylamine, I
10 proceeded to do the gas chromatography coupled with mass
11 spectrometry. And this is, as I said earlier -- is one of the
12 techniques used in our laboratory for confirmation. So I ran
13 each one of those individual units from 1.01 as well as the
14 composite from 1.02, and I put those on the GCMS composite.

15 Q. And what -- what does that instrument accomplish for you?

16 A. Well, the GC portion of the instrumentation is that
17 separation technique I spoke about earlier. So it would tell
18 me if there were multiple components in that one sample.

19 And then it proceeds to go to the mass spectrometer,
20 and that breaks apart the molecule and gives you a unique
21 fragmentation. So that's where the confirmatory technique
22 comes in.

23 Q. And so could it be accurate to state that that provides
24 unique molecular information on the substance?

25 A. Yes.

1 Q. That would be not the GC but the MS?

2 A. The mass spec. portion, yes.

3 Q. Is that one of the techniques, confirmatory tests approved
4 by DEA and SWGDRUG?

5 A. Yes.

6 Q. What did you find when you conducted the GCMS hybrid test,
7 if you will?

8 A. I found that in each of the three units of 1.01 and in 1.02
9 that methamphetamine was confirmed in each one of those.

10 Q. All right. And what did you compare the results to?

11 A. I compared them to a reference standard.

12 Q. To your knowledge, how long has the GCMS instrument been
13 used by DEA in their laboratories?

14 A. It has also been there since the inception in 1973.

15 Q. And is that instrument and the use of that instrument
16 subject to peer review and have there been professional
17 articles published?

18 A. Yes.

19 Q. And several of those articles are in Attachment 3 to
20 Document 162-1?

21 A. Yes.

22 Q. When did you perform that test?

23 A. I performed that on April 26, 2011.

24 Q. And when was the instrument, the GCMS, last calibrated?

25 A. April 12, 2011.

Shana Irby - Direct

1 Q. And based upon your experience and training as a forensic
2 chemist, is that sufficiently recent calibration on that
3 instrument?

4 A. Yes. We perform a performance verification once a month,
5 and that one was done on the 12th.

6 Q. Could you briefly summarize what the performance --

7 A. The performance verification is a test mix. It's got
8 different substances in it; and it's checking the validity of
9 the instrument, checking to see that the instrument is working
10 properly. The responses that you get from each one of those
11 peaks are looked at in detail by -- we have what are called
12 "instrument monitors"; so any instrumentation that we have in
13 the laboratory goes through this performance verification once
14 a month.

15 Q. All right. And I'm calling it calibration. Is that
16 accurate, or --

17 A. It's actually yes and no. "Calibration" is kind of a loose
18 term. I would actually call it a performance verification.

19 Q. All right. And when those performance verification tests
20 are done, is that noted in a document anywhere?

21 A. It's -- well, it's a requirement for us to run this
22 performance verification, and that data is kept. It's at the
23 laboratory.

24 Q. All right. And is there a log book or something similar
25 where that information is recorded?

Shana Irby - Direct

1 A. We actually have a log book as well. We have a log book,
2 and then we have a separate binder that has the results from
3 all of the performance verifications.

4 Q. All right. So you have basically two copies of the same
5 information?

6 A. Well, the log book has the results in there. It doesn't
7 have the actual data in it. The actual data is in the binder.

8 Q. Okay. What did you do next after you determined from the
9 GCMS that you were dealing with methamphetamine?

10 A. Well, as we spoke earlier about the requirements per
11 SWGDRUG and our Analytical Sufficiency Document, at this point
12 I had done a confirmatory and I had also done a separation
13 technique on at least two portions of the sample. So the
14 Exhibit 1.01 that had three units, I can now combine that and
15 say that they are all similar.

16 And so what I did is I took the substance in each one
17 of those mortar and pestles and combined them all together; and
18 I did what is called "cone and quartering," and I got a
19 composite. I formed a composite. So at this point, I have one
20 composite of Exhibit 1.01 and one composite, the only
21 composite, of Exhibit 1.02.

22 Q. All right. And were 1.01 and 1.02 kept separate, then, at
23 that point?

24 A. Yes. They're two separate exhibits.

25 Q. And you said you did -- I'm drawing a blank here.

Shana Irby - Direct

1 Quartering. Cone and quartering?

2 A. Cone and quartering, yes.

3 Q. Yes. What is that procedure?

4 A. As I spoke earlier about putting each one of the substances
5 in the bags in a corner -- cone -- excuse me -- like a party
6 hat. Okay. Then you cut that in fourths. You cut it down the
7 middle one way, and you cut it down the middle the other way;
8 and so you have four quadrants. And then you take opposite
9 quadrants, and you're mixing in a mortar and pestle and
10 reducing the parcel size, and then you -- and then you do that
11 again until you have in this case I had about a 35-gram
12 composite.

13 Q. All right. And quartering: It's called that because there
14 are actually four quarters of the exhibit?

15 A. Yes.

16 Q. Okay.

17 A. And now this composite that I have is representative of
18 those three bags.

19 Q. All right. So that's done a number of times with respect
20 to each exhibit? I mean the coning and quartering process?

21 A. If you're talking about regular exhibits, cone and
22 quartering is common practice in our laboratory. In this
23 instance, I took whatever substance I had from those three
24 mortar and pestles that I had already taken a random sampling
25 of and I ground that down using the cone and quartering. And

1 you do that until you get, you know, somewhere around a 30-gram
2 composite.

3 Q. All right. Okay. And what happened to the balance of the
4 material?

5 A. I put it in a separate Ziploc bag.

6 Q. And what did you do after that?

7 A. I proceeded with my analysis. The next test I ran was
8 infrared spectroscopy, and ATR, attenuated total reflectance.

9 Q. If you don't mind, I'll refer to that as IRATR?

10 A. Perfect.

11 Q. What is the purpose, function of an instrument and the
12 tests you did on that?

13 A. An IR is one of those confirmatory techniques that we spoke
14 of earlier. In this instance, there is a diamond window, and
15 you -- I ran the diamond window individually as my negative
16 control, as my blank; and there showed no source of
17 contamination. So then I placed the sample just in its solid
18 phase as it is on that window for Exhibit 1.01. Then I ran yet
19 another blank to make sure the window did not have
20 contamination, and then I ran Exhibit 1.02.

21 And in both of those tests, I identified
22 methamphetamine hydrochloride.

23 Q. All right. So the reactant or the presumptive test tells
24 you it's phenethylamine?

25 A. Phenethylamine.

1 Q. All right. And I'll get that down one of these days.

2 GCMS tells you you're dealing with methamphetamine?

3 A. Yes.

4 Q. And this particular test, the IRATR, then allows to you go
5 one step further and determine it's methamphetamine
6 hydrochloride?

7 A. That's correct.

8 Q. And just briefly, what readings do you rely on or how do
9 you conduct your analysis, read the results?

10 A. There are no reagents. The sample is actually placed
11 directly on the window, and infrared light is shined on to that
12 sample. And the sample is -- or the light is absorbed or
13 reflected from that sample to give you a unique pattern or
14 "spectra," as we call it, of the substance that you placed on
15 the window.

16 Q. All right. And based upon your experience and training,
17 you knew that to be methamphetamine hydrochloride?

18 A. Yes. And I did compare it to a reference standard.

19 Q. Okay. Was the reference standard already loaded into the
20 instrument, if you will?

21 A. It was in a library, yes.

22 Q. All right. So you're looking at the spectra associated
23 with methamphetamine hydrochloride --

24 A. Yes.

25 Q. -- for instance? And how long has that testing equipment

1 been used by DEA laboratories?

2 A. Infrared has been used since its inception, but the ATR has
3 been used for about the last 12 years.

4 Q. All right. Do you -- did you use a standard when
5 conducting this particular test?

6 A. I compared the unknown to reference material, but I did not
7 actually put a standard on there for comparison that day.

8 Q. Okay. And based upon SWGDRUG and DEA policy, is the way
9 that you did this -- is that in accordance with proper
10 procedure?

11 A. Yes. It's not required to run the sample on that day. The
12 spectrum from infrared is very, very robust. You can run
13 something 20 years later on the same instrumentation using the
14 same parameters and you will get the same spectra. This is why
15 there is literature available and reference libraries available
16 for this type of instrumentation.

17 Q. And again, referring to Attachment 3 or Attachment 3 of
18 Document 162-1, do you have articles in that attachment
19 addressing IRATR?

20 A. Yes.

21 Q. And I assume based upon those articles it is subject to
22 peer review?

23 A. Yes.

24 Q. And is it an accepted confirmatory test in the field of
25 forensic chemistry?

Shana Irby - Direct

1 A. Yes.

2 Q. Regarding the IRATR, when was that machine last calibrated
3 before you conducted your tests on April 26?

4 A. It was done on April 1, 2011.

5 Q. All right. After you performed the IRATR testing, what did
6 you do next?

7 A. I ran gas chromatography coupled with infrared detection.

8 Q. And what does that test -- what is the function of a test?

9 A. That is a test similar to the GCMS that I spoke about
10 earlier. I didn't actually say that was a hyphenated
11 technique, but it is, as well as the GCIRD is a hyphenated
12 technique. It has the same separation or it has the GC portion
13 which is used for separation of multiple components, and then
14 that substance goes through transfer lines, through the
15 infrared detector. And that infrared detection is a
16 confirmatory technique. It is IR, like I just spoke about.

17 Q. And technique that you're describing or the instrument and
18 use of that instrument: Is that one of the four techniques
19 approved by DEA and SWGDRUG for confirmatory tests?

20 A. Yes.

21 Q. And when you performed that test, did you follow the
22 procedures set forth in the manuals you previously discussed?

23 A. Yes. I ran a blank in between -- or I'm sorry. I ran a
24 blank before each one of the exhibits, 1.01 and 1.02.

25 Q. All right. And what were the results of your GCIRD?

Shana Irby - Direct

1 A. Both of those exhibits contained methamphetamine.

2 Q. All right. And did you use reference -- I believe you
3 referred to them as "spectra" -- in making that analysis?

4 A. I did.

5 Q. All right. And again, this test is just another
6 confirmatory test that the substance you're dealing with is
7 methamphetamine?

8 A. That's correct.

9 Q. And that was the same result for all the exhibits --
10 well --

11 A. So far, other than the presumptive of Marquis, all of the
12 tests have come to the same conclusion: that I have
13 methamphetamine.

14 Q. And how long has that testing, the GCIRD -- excuse me --
15 yeah, that's right. How long has that been in use by DEA
16 laboratories?

17 A. For the last 20 years.

18 Q. And again, is that subject to peer review in the field of
19 forensic chemistry?

20 A. Yes.

21 Q. And has it been adopted by that community?

22 A. Yes.

23 Q. And do you have articles relating to that in Attachment 3
24 to Document 162-1?

25 A. Yes.

1 Q. When was that machine, the GCIRD instrument, last
2 calibrated before you performed your tests on April 26 of this
3 year?

4 A. It was calibrated on April 12, 2011.

5 Q. Okay. After you completed the GCIRD, what did you do next?

6 A. Next I did gas chromatography.

7 Q. All right. Is that flame ionization? Is that that
8 particular test?

9 A. It's gas chromatography, and the detector is a flame
10 ionization detector.

11 Q. Can you describe the function of that machine -- that
12 instrument, rather?

13 A. Yes. It's an instrument -- as we spoke earlier about the
14 two hyphenated techniques, the beginning of those techniques
15 are GC. This instrument is exactly that without that
16 identification technique hyphenated on to it. So it is used --
17 it's a nonselective instrument used to show you if there is
18 different or multiple components in your substance.

19 In this particular case, it's actually kind of a
20 unique case. I used it for the identification of the isomers.
21 I'm not identifying methamphetamine. I've already done that.
22 But in this case I need to identify the isomers of
23 methamphetamine.

24 Q. All right. I believe there are two, D and L?

25 A. There is actually more than just D and L. There is a

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1 racemic, which is a 50/50 mixture.

2 Q. All right. What are you primarily looking?

3 A. I'm looking for basically is it -- is it all D, is it L, is
4 it a mixture of the two, or is it a racemic mixture?

5 Q. And what were the results of the testing?

6 A. Both exhibits contained both the D and the L in a
7 nonracemic isomer mixture.

8 Q. And in this particular test, did you use a standard?

9 A. I did use a standard.

10 Q. All right. Could you describe how you did the procedure in
11 terms of blank and --

12 A. Yes, I ran the blank. Then I ran Exhibit 1.01. Then I ran
13 another blank. Then I ran Exhibit 1.02. And then I ran
14 standards, three known standards.

15 Q. And those were of methamphetamine?

16 A. Yes. Those were the other -- the isomers of
17 methamphetamine.

18 Q. Okay. And I don't believe I asked you this: Is this a
19 confirmatory test approved by both DEA and SWGDRUG?

20 A. It's actually a presumptive test. It's not a confirmatory
21 test; but, yes, it's approved by DEA and it's peer-reviewed.
22 It's a common -- common instrument used in laboratories.

23 Q. So in addition to the Marquis reagent test, this is another
24 presumptive test?

25 A. Yes.

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1 Q. And how long has the GCFID been used in your field?

2 A. It's been used in DEA since its inception in 1973.

3 Q. All right. What was the date that particular instrument
4 was calibrated before you performed your testing on April 26?

5 A. That was April 19, 2011.

6 Q. After you performed that test, what did you do next?

7 A. I had actually completed all my qualitative analysis, so it
8 was time to get quantitative and get the purity of the mixture.

9 Q. So if we could, just to summarize for the record, what is
10 qualitative vs. quantitative?

11 A. Okay. Qualitative is all of the tests that you run to
12 where you're making the identification of methamphetamine
13 hydrochloride.

14 Quantitative is where you're saying okay -- you're
15 saying this is methamphetamine hydrochloride, but how much of
16 that mixture is methamphetamine hydrochloride?

17 Q. All right.

18 A. So one of them is going to how much is there and the other
19 one is going to the identification of it.

20 Q. In terms of purity, the quantity?

21 A. The quantitation is the purity, yes.

22 Q. And what does the HPLC -- how do you operate that
23 instrument?

24 A. That instrument is similar to the GC, only it's using
25 liquid chromatography vs. gas chromatography. It's a

1 nonselective instrument that will also separate components.

2 In this instance, I ran the samples or the ran the
3 unknowns against a known reference standard of methamphetamine
4 at a specific concentration. So when the known sample goes
5 through the instrumentation, it gives a response. And then the
6 unknown goes through and also gives a response. And because I
7 know the concentration of the standard, I can go ahead and do
8 some simple math and tell you what the concentration of the
9 unknown is.

10 Q. All right. And did you use blank before you started the
11 procedure?

12 A. I did not on this instrumentation. The blank is normally
13 there for -- The blank is there to show contamination. This is
14 qualitative vs. quantitative. I'm only doing it to show what
15 the purity is, and it's not a requirement to run a blank in
16 this instance.

17 Q. All right. And is this a confirmatory test adopted by DEA
18 and SWGDRUG?

19 A. It's not a confirmatory test.

20 Q. All right. But it is --

21 A. But it is adopted by the -- by DEA and it's also adopted by
22 SWGDRUG.

23 Q. For the purpose of quantitation?

24 A. Quantitation. There are other instrumentation. I just
25 those this one.

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1 Q. And how long has that instrument been in use?

2 A. Since DEA's inception in 1973.

3 Q. And has that been the subject of peer review and
4 professional articles?

5 A. Yes.

6 Q. And forensic chemistry journals?

7 A. Yes.

8 Q. And I don't believe I asked you: When was that machine
9 last calibrated before you did the tests?

10 A. It was on April 4, 2011.

11 Q. Was that the final test that you did in this case?

12 A. Yes.

13 Q. So to summarize, would it be two presumptive tests that you
14 testified to and four confirmatory tests?

15 A. Yes. In most laboratories, after you have done the two
16 tests that I did at the beginning, the Marquis and the GCMS,
17 most laboratories, most forensic laboratories throughout the
18 United States, they're done with their analysis at that point.
19 They do not have to go any further. They can say, I have this
20 much and it contains methamphetamine.

21 The DEA goes a little bit further because of --
22 because of some requirements on the evidence that we analyze to
23 say, It contains this much. I go to the purity and the
24 concentration. So in routine analysis, I have to do those two
25 tests and I have to do a purity. So I technically only have to

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1 do three tests; but in this case, I ran six, and all six of the
2 tests told me that I had methamphetamine or I -- I came to the
3 conclusion that they had methamphetamine.

4 Q. All right. And did you have sufficient data from which to
5 reach a conclusion as an expert in the field of forensic
6 chemistry?

7 A. Yes.

8 Q. And could you summarize what those conclusions were as a
9 result of your examination of the data in this case?

10 A. In this particular case, Exhibit 1.01 contained
11 methamphetamine hydrochloride. The net weight was 5,196 grams.
12 The purity was 99 percent pure with an actual amount of
13 5,144 grams of methamphetamine hydrochloride.

14 Exhibit 1.2 [sic] contained methamphetamine
15 hydrochloride. The net weight was 47.6 grams. The
16 concentration was 98.9 percent with an actual amount of
17 47.0 grams of meth hydrochloride.

18 Q. All right. And could you clarify for the record what the
19 distinction is between net weight and actual drug weight?

20 A. Okay. The net weight is the substance -- is the entire
21 substance that you have. Okay.

22 And then the purity is saying of that whole substance,
23 99 percent of it is methamphetamine. So if you multiply the
24 net weight multiplied by the purity, it's saying of all of the
25 substance you have, the actual amount of methamphetamine is the

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1 net weight times the purity equals the amount of actual
2 methamphetamine.

3 Q. Is it accurate to state that actual is an equivalent to a
4 hundred percent purity?

5 A. Yes.

6 Q. All right. So, for instance, if you had 80 grams of
7 80 percent purity, you'd have 80 grams of methamphetamine?

8 A. If you have 80 grams and it's a hundred percent, you have
9 80 grams.

10 Q. Okay. All right. Based upon your experience and training
11 in the area of methamphetamine, were the purities here higher
12 than you normally see?

13 A. 99 percent is very pure. I mean you can only go up to a
14 hundred.

15 Q. All right. And is there a range when you conduct purity
16 examinations of methamphetamine that's brought to you?

17 A. Yes. There is -- Any time you take a measurement, there is
18 an uncertainty associated with that. So it's actually
19 99 percent plus or minus 3 1/2 percent.

20 Q. All right. And what's the uncertainty --

21 A. Like I just said.

22 Q. -- okay -- attributable to?

23 A. For me -- the easiest way for me to explain uncertainty is
24 in a cooking analogy. Okay. If I'm making a cake and I need a
25 cup of sugar and I use a cup of sugar, everybody in the room

1 would know that this is a cup of sugar. But the recipe calls
2 for two cups, so I pour the first cup in and then I do the
3 second cup. Everybody in this room knows it's still a cup of
4 sugar, but there actually might be a couple granules less or
5 more than the first cup. So that's the uncertainty. This is a
6 measurement, but we can't take this measurement out to
7 uncertainty [sic], so we know there is probably a little bit of
8 variation there. So that's what the uncertainty is.

9 Q. And on the weight, there is also a very small margin of
10 uncertainty?

11 A. Yes. The uncertainty goes with any measurement. When I'm
12 weighing it, that's a measurement. When I'm doing the purity,
13 that's a measurement. So that's why there is uncertainty
14 associated with those.

15 Q. All right. And I'd note in your lab report, which again is
16 Attachment 2 to Documents 162-1, the uncertainty associated
17 with the smaller exhibit, 1.02, is plus or minus 1.07 grams,
18 while the uncertainty associated with the large Exhibit, 1.01,
19 is plus or minus 182 grams. Could you explain why that is?

20 A. Well, the uncertainty is just going to be bigger with the
21 larger amount that you have.

22 Q. All right. And the quantities here in excess of 5, or
23 almost 5.2 kilograms in 1.01, combined with 47.6 grams: Is
24 that a significant quantity of methamphetamine, in your view?

25 A. Yes.

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1 Q. Could you approximate with those if you converted kilograms
2 to pounds approximately how many pounds that might be?

3 A. Yeah. It's about 11 1/2 pounds of methamphetamine.

4 Q. All right. During the course of your professional career,
5 in particular as a forensic chemist with the DEA, have you ever
6 found an exhibit not to contain a controlled substance?

7 A. Yes.

8 Q. And on how many occasions approximately, if you know?

9 A. Oh, boy. I don't know off -- offhand; but I mean whether
10 it has something in it or whether it hasn't, I'm going to
11 analyze it the same. I can't put something in it. My results
12 are going to be what my results are. And I'm confident in my
13 results, whether I find a controlled substance or whether I
14 don't.

15 Q. Could your data be duplicated by a competent chemist in the
16 field?

17 A. Yes.

18 Q. And based upon your submission -- and again I'm referring
19 to Attachment 2 with all the charts and worksheets and
20 everything else that was provided -- again that's Attachment 2
21 to Document 162-1 -- by reviewing that attachment,
22 Attachment 2, could a competent chemist render an expert
23 opinion?

24 A. Yes.

25 Q. And finally, do you have any indications that these

1 exhibits contained any controlled substance besides
2 methamphetamine?

3 A. No.

4 *MR. BOMA:* Your Honor, at this time we'd move for the
5 admission into evidence of Government's Exhibit 1, also
6 captioned or having the header of 162-1.

7 *THE COURT:* Technically the Rules of Evidence do not
8 apply, in accordance with Rule 1101(d)(1); however, I'll treat
9 your request as a request to consider the report and the
10 attachments to it.

11 *MR. BOMA:* Yes, your Honor. Thank you.

12 *THE COURT:* Thank you.

13 *MR. BOMA:* No further questions.

14 *THE COURT:* Thank you.

15 I think this might be a good time to take a midmorning
16 recess. It's 11:35, according to the court clock; and we'll
17 stand in recess for 10 minutes.

18 Yes, sir.

19 *MR. EDELMAN:* I didn't mean to interrupt, your Honor.
20 I'm just standing before you recess.

21 *THE COURT:* And then we'll reconvene at 10:45.

22 Yes, sir.

23 *MR. EDELMAN:* I would request that you instruct the
24 witness not to confer with any of the parties in this case on
25 the prosecuting -- prosecution side to in any way -- about this

1 case and her testimony.

2 *THE COURT:* I'm sure Ms. Irby will not.

3 *MR. EDELMAN:* Thank you.

4 *THE COURT:* Thank you. We'll stand in recess.

5 (Recess at 10:35 a.m.)

6 (Reconvened at 10:49 a.m.)

7 *THE COURT:* Please be seated.

8 Let me ask defense counsel how you're going to handle
9 cross-examination.

10 *MR. EDELMAN:* Your Honor, I think I'm going to go
11 first.

12 *THE COURT:* Well, let me ask a little more
13 specifically: Is everyone going to cross-examine?

14 *MR. DRISCOLL:* Your Honor, Bob Driscoll on behalf of
15 Mr. Pelayo.

16 I have a few questions, two or three questions, that
17 I'd like clarification. I was unclear regarding one portion of
18 the testimony. My examination, I would guess, would be in the
19 neighborhood of five minutes.

20 *THE COURT:* Okay. I'm going to ask those of you who
21 plan to cross-examine -- and maybe there are others of you --
22 that you listen closely to Mr. Edelman's questions and not
23 duplicate --

24 *MR. DRISCOLL:* Sure.

25 *THE COURT:* -- his questions.

1 Okay. Mr. Edelman.

2 MR. EDELMAN: Thank you.

3 **CROSS-EXAMINATION**

4 BY MR. EDELMAN:

5 Q. Good morning, Ms. Irby.

6 A. Good morning.

7 Q. I have a few questions.

8 In Exhibit 1 -- Do you have that in front of you?

9 Your declaration?

10 A. Yes.

11 Q. You prepared that declaration?

12 A. Yes.

13 Q. And did you prepare that declaration from scratch, or did
14 you use somebody -- something else?

15 A. I had assistance. But I am comfortable with everything the
16 declaration says. It's my declaration.

17 Q. And what kind of assistance did you have?

18 A. I had assistance from another senior forensic chemist in my
19 lab. After I had made some changes, I had somebody read it for
20 administrative: Am I saying this clearly; is it saying it
21 correctly? Nobody told me what to put in here. This is what
22 happened in this case.

23 Q. Who was that individual by name that assisted you?

24 A. Bryan Henderson.

25 Q. And is he here today?

1 A. Yes.

2 Q. And is that the young man at the end of the table?

3 A. Yes.

4 Q. Thank you.

5 So did he provide you with some written materials to
6 help formulate the language that you used in this declaration?

7 A. I'm not -- I don't remember the specifics of, Oh, you
8 should say it this way, or You should say it that way. I think
9 the bottom line is I'm comfortable with everything that's in
10 here, and I have -- it is my word. I signed it.

11 Q. Okay. I understand that. Did you use a template, do any
12 cut and paste from a Word document or another document? Not
13 boilerplate type of language, not in the specific language in
14 this document that pertains just to the specifics, the
15 weights --

16 A. Right.

17 Q. -- and that sort of stuff?

18 A. That portion is all mine.

19 There are some areas in here that make reference to
20 other entities, and some of that is verbatim from them --

21 Q. From who --

22 A. -- or from their website.

23 Q. Whose website?

24 A. Like SWGDRUG and ASCLD/LAB.

25 Q. And is this the way that declarations are prepared in your

1 lab?

2 A. This is my first declaration.

3 Q. Okay. And is it available for any of your other chemists
4 to utilize and borrow the language?

5 A. I do not know.

6 Q. Who would know?

7 A. Probably the laboratory director.

8 Q. Okay. So your document is given to the laboratory director
9 to put in the laboratory director's files for anybody to review
10 for reference materials?

11 A. I do not know that.

12 Q. Okay. Do you know if anybody shared the language from your
13 declaration for another declaration?

14 A. I don't know that.

15 Q. Okay. Now, in your declaration, I think you said there was
16 a bibliography.

17 A. Yes.

18 Q. Did you read all of the reference materials that you
19 referred to specifically to what you did in this case?

20 A. I have not read them in detail. I have glanced at the
21 majority of them.

22 Q. And you said there were thousands besides the one --

23 A. Yes. I mean in reference to using this instrumentation in
24 some sort of forensic field, there are thousands out there.

25 Q. Other than the 29. Excuse me.

1 A. Correct. Yes, ma'am.

2 Q. Okay. Now, did you read the actual language from the
3 different standards that you placed into your declaration?

4 A. Yes.

5 Q. And at the time that you prepared your declaration?

6 A. Yes.

7 Q. And that's public record?

8 A. What's public record?

9 Q. The language that you put into your declaration that is not
10 specific, referring to ISO, ASCLD/LAB, SWGDRUG, and all --

11 A. Correct. Like I said, a couple of those are from their
12 actual website.

13 Q. SWGDRUG was originally put together by the DEA, was it not?

14 A. I don't know that.

15 Q. Okay. Now, I think you indicated that anybody who came
16 into the -- your laboratory can duplicate the testing that you
17 just testified to?

18 A. Well, from this data packet, a chemist should be able to
19 see what I did, know the instrumentation, and be able to
20 re-create what I did; and that is the requirement in SWGDRUG
21 and ASCLD/LAB, is that somebody can re-create what I did.

22 Q. And in order to re-create what you did, they would have to
23 know the procedures that you were following?

24 A. A lot of the procedures I followed are basic analytical
25 chemistry things that you learn in your laboratory. My report

1 might say that I put 10 milligrams per mil into some sort of
2 solvent. Somebody should be able to do that. And when the
3 report is generated, you can compare this to this.

4 Q. Well, it's my understanding that you testified at some
5 portions of your testimony that you were relying upon DEA
6 procedures and protocols.

7 A. Sure. Yes.

8 Q. So somebody who would do an independent confirmatory review
9 and testing of your testing -- they'd have to look at the DEA
10 procedures and protocols manual or manuals?

11 A. I disagree with that because it tells you right on there
12 how I did my sampling. Okay. Right on the data, it tells you
13 how I went about the procedure to introduce that into my
14 sampling.

15 The other part, like you say, needing those background
16 information is not important because it's actually in this data
17 packet, how I went about it.

18 Q. All right. If you would please turn to -- before you turn
19 to any page, tell me again, if you would, please -- we'll try
20 to be brief -- there were how many packages that were
21 separately sealed from the evidence vault?

22 A. I had two heat-sealed evidence envelopes. Inside each one
23 of those were two bags.

24 Q. Okay.

25 A. Some of them had multiple Ziplocs, but there were a total

1 of four.

2 Q. A total of two big ones when you took them out of the
3 evidence locker; correct?

4 A. Yes.

5 Q. And you identified one as 1.01?

6 A. No. I took two big ones out of the vault. When I opened
7 those up, there were two inside of each one of those, for a
8 total of four. There were three larger ones and one small one.

9 The three larger ones, I called 1.01; and the smaller
10 one was 1.02.

11 Q. And they weighed differently?

12 A. Yes.

13 Q. Different amounts?

14 A. Yes.

15 Q. So on page Irby Declaration 004, which is EC -- I think it
16 says that. I'll say it on the top: Document 162.1, page 19 of
17 76. Do you have that?

18 A. Yes.

19 Q. You indicate that about one-third down, this is all in your
20 handwriting; correct?

21 A. Yes.

22 Q. And this is the actual size and a photocopy of the document
23 you prepared?

24 A. This is a scanned copy and then probably photocopied.

25 Q. Okay, but it looks the same way as yours?

1 A. Yes.

2 Q. The one that you put the pen or pencil to paper?

3 A. Yes.

4 Q. Exhibit 1.01 says it contains methamphetamine
5 hydrochloride, HCL, gross weight 5406 grams?

6 A. That's correct.

7 Q. Those are the one package with the three in it, did you
8 say?

9 A. No, no, no, no. The gross weight. Okay. As I received
10 the exhibit, it's all Exhibit 1; and it's two of those heat
11 seals. I took those two heat-sealed evidence envelopes, placed
12 them right on the balance, and that weighed 5,406. I may have
13 done them individually; I'm not sure -- I actually did them
14 individually.

15 Q. Well, you identify in that first left-hand box, which is
16 No. 6, Summary of Findings, Exhibit 1.01 contains
17 methamphetamine hydrochloric -- methamphetamine hydrochloride,
18 HCL gross weight 5406?

19 A. Right. That was the gross weight as I received it.

20 Q. Okay. And then 1.02 contains methamphetamine hydrochloride
21 gross weight 5,406 grams?

22 A. That's correct.

23 Q. Okay. Where does it say in your report that -- does it
24 break it up and show that's what you did?

25 A. If you -- okay. Of the gross weight, if you'll look on the

1 back -- I'm sorry. Very next page. Page 20, and you'll see
2 under the first line -- Well, it's the line labeled "gross
3 weight." And you have unit, .001. That is an extension to the
4 unique lab number. So one of these bags was labeled .001 and
5 the other one was labeled .008.

6 So I just took that heat-sealed evidence envelope
7 containing everything inside.

8 Now, this weight is just for chain of custody. This
9 weight has no bearing on the analysis of the evidence inside.
10 That is the gross weight. That's what it weighed as I received
11 it.

12 Q. All right. Did you speak -- or look at Ms. Chan's report?

13 A. You know, I may have glanced at it. I never read it. I
14 never read it all the way through. I never looked at it and
15 reviewed it.

16 Q. Did you speak with her?

17 A. Yes.

18 Q. And did you discuss her methods of testing and the
19 proceeding we were -- the last proceeding she testified in?

20 A. Yes.

21 Q. And I think you indicated that you performed an extra test
22 that you don't have to?

23 A. Well, I performed the tests I needed to be comfortable with
24 the analysis. That's a minimum of three. I did six.

25 Q. Who says that you do three?

1 A. The minimum of three comes from the recommendations of
2 SWGDRUG as well as DEA.

3 Q. And how many did Ms. Chan do?

4 A. I do not know.

5 Q. I take that back -- or strike that, please.

6 Now, if you would please take a look at Exhibit 2.

7 D2. In a different book.

8 A. I don't know where I'm going.

9 D2? Okay.

10 Q. I think you testified that there was an ASCLD/LAB
11 certificate of accreditation?

12 A. Yes.

13 Q. I think you said sometime in February, 2010.

14 A. Yes.

15 Q. And Exhibit D2 on page 000104: Would you turn to that,
16 please.

17 A. I don't think I'm in the right area. I don't know -- I
18 went to Tab 2. Is that --

19 *THE COURTROOM DEPUTY:* Mr. Edelman, are you looking
20 for a certain page? She's on page D2. What page would you
21 like her to look at?

22 *MR. EDELMAN:* Bottom right-hand corner, 000104.

23 *THE WITNESS:* 104?

24 *BY MR. EDELMAN:*

25 Q. Right. Or 70 of 93 on the top right.

1 A. Okay. Yes. I'm sorry.

2 Q. Is that the accreditation you're talking about?

3 A. Yes.

4 Q. Now, that accreditation took place or was finalized in
5 February, 2010?

6 A. Correct.

7 Q. Correct?

8 A. That's when the certificate was -- that's when the
9 certificate was stamped. They actually backdated it.

10 Q. From when?

11 A. From September of 2010.

12 Q. Okay. If you take a look at page 120 on the bottom, or 86
13 of 93?

14 A. Yes.

15 Q. That's entitled "Corrective Action Request"?

16 A. Yes.

17 Q. And one of the corrective actions were 5.8.2 -- let's
18 see -- doesn't that talk about the compositing of your samples,
19 they had problems with that?

20 A. If you'd read at the top of that, under "Finding," it says,
21 "This CAR was appealed by the laboratory, and the ASCLD/LAB
22 board sustained a portion of the appeal and a portion of the
23 findings."

24 Q. But we don't know which ones, do we?

25 A. Let me see what information you have here.

1 I know that the portion that was appealed was the --
2 was the -- the -- was the drug side of it, not forensic side.
3 And this document is written by ASCLD; it's not written by me.
4 So I can't really attest to the fact that -- I just know that
5 this document didn't apply to controlled substances.

6 Q. But you're not familiar with the document?

7 A. I have seen it before; but I'm not familiar with it, no.

8 Q. So ASCLD/LAB says that you shouldn't composite. Somebody
9 appeals. And is there anything in this, meaning the DEA
10 appeals and says, We can, I suppose, composite; and ASCLD/LAB
11 says, Okay, what we thought was a violation of our standards,
12 we're going to ignore?

13 A. Well, the appeal process is us saying, okay, you didn't
14 understand what we do. Let me give you more information.

15 If ASCLD still did not agree with it, they would not
16 have -- they would not have said, It's okay, you don't need to
17 do that anymore, or --

18 Q. Have you participated ever in the appeal process?

19 A. No.

20 Q. Do you know what information was provided by your lab to
21 convince ASCLD/LAB that they didn't understand it?

22 A. Actually I -- I may have from behind the scenes provided
23 them with some information. They did ask for some information
24 and for us to like photocopy some reports and actually
25 photocopy some evidence. And that was sent to ASCLD/LAB from

1 our laboratory, but I wasn't involved in talking to anybody
2 about this appeal.

3 Q. And you don't know what ASCLD/LAB received?

4 A. I just know that --

5 Q. Please.

6 A. We would not have been accredited had they not sustained
7 the appeal.

8 Q. I understand that. I just want to know what you knew or
9 know and didn't know with regards to the information provided
10 ASCLD/LAB -- ASCLD/LAB?

11 A. Well, I assisted in providing them the information. What
12 they did with that information, I do not know.

13 Q. Do you know the know what -- you say you provided them.
14 Who are you talking about?

15 A. ASCLD -- or I don't actually recall if I -- actually, I'm
16 pretty sure I didn't send it directly to ASCLD. I extent to
17 our headquarters in Washington, D.C.

18 Q. And those were the folks, the headquarters of the DEA, that
19 were participating in the appeal?

20 A. Correct.

21 Q. And so one of the problems, at least in this appeal -- in
22 this action by ASCLD/LAB was the compositing of drug samples;
23 correct?

24 A. Can you give me just a minute to read what this says here?

25 Q. Okay. It's under "Requirements."

1 A. Well, the Requirements are just straight out of ISO. The
2 findings are --

3 Q. And that says --

4 A. The findings that they found are in reference to our
5 labeling. It has nothing to do with forming a composite.

6 Q. Okay. Let me just understand it. It states in the
7 findings in the Controlled Substance section, "Multiple bags of
8 evidence received in a single exhibit are not uniquely
9 identified to ensure that the items cannot be confused when
10 referred to in the records or reports"; correct?

11 A. Yes.

12 Q. And you received what Ms. Chan identified and put into the
13 evidence locker?

14 A. I received the four bags that we spoke about earlier, yes.

15 Q. Do you know what she received?

16 A. I know that she had 12 units of -- in some plastic
17 containers.

18 Q. And were they individually marked?

19 A. I do not know; but it is our policy to mark all of the
20 evidence inside of our heat seals.

21 Q. Could you take a look at Exhibit 8, D8.

22 A. D8.

23 Q. Page 1. Do you see that?

24 A. Yes.

25 Q. And there are 12 -- looks like 12 different packages;

1 right?

2 A. Yes.

3 Q. Three white ones and the rest sort of bluish green or
4 greenish blue or blue green or green blue; right?

5 A. Correct.

6 Q. And two white ones are in one sealed bag; right?

7 A. Yes.

8 Q. And two of those -- excuse me -- there are two packages of
9 two blue green substances; correct?

10 A. It looks to me like there is three.

11 Q. Okay. And there were no evidence labels on that -- that
12 picture, that photograph?

13 A. I don't know where this photograph came from. I don't know
14 if this is a photograph that Anthea took or if somebody took
15 when the evidence was seized. I don't know where this came
16 from.

17 Q. So if there were no labeling on these packages in this
18 photograph that are the packages that Ms. Chan testified to as
19 what she received, would you agree with the findings of the
20 ASCLD/LAB as an improper sampling -- What am I trying to think
21 of -- sampling or initial testing and handling of this package
22 of drugs?

23 A. I disagree. In looking at this picture, I believe that
24 this picture was taken before the laboratory received it. This
25 does not look like any table in our laboratory. There is file

1 cabinets in the back. It's got -- I mean it does not look
2 familiar to me. And I know our laboratory and where photos
3 would normally be taken, and this does not look familiar to me.

4 Q. Have you seen any photographs of each of the separate 12
5 packages of substances that were individually marked?

6 A. No.

7 Q. And you said you did not review Ms. Chance's reports?

8 A. I didn't.

9 Q. So you do not know if her sampling was -- her sampling of
10 these packages were marked?

11 MR. BOMA: Objection. Relevance. We're not relying
12 upon Forensic Chemist Chan's testimony.

13 THE COURT: Response?

14 MR. EDELMAN: I think the entire process that Ms. Irby
15 has testified to and discussed was fatally defective by the way
16 the drugs were handled by Ms. Chan, and it just goes down the
17 entire defective handling, which makes these -- her testing
18 unreliable.

19 THE COURT: Reply?

20 MR. BOMA: Your Honor, if anything, it's a chain-of-
21 custody issue; and the Government submits that these -- the
22 picture referred to was taken by field agents prior to the
23 submission to the laboratory, if I could proffer that.

24 THE COURT: Thank you.

25 MR. BOMA: Because I happen to have asked them.

1 *THE COURT:* This is a chain-of-custody issue. Today
2 we are concerned with the opinion that Ms. Irby gave with
3 regard to the substance she tested. There is no determination
4 that the Court is making that what she tested is the same
5 substance as Ms. Chan tested or even necessarily the same
6 substance as was seized in this case. We are only looking at
7 the methodology by which she formulated an opinion as to the
8 substance she tested.

9 *MR. EDELMAN:* Thank you, your Honor.

10 *BY MR. EDELMAN:*

11 Q. As part of the methods that you believe were performed by
12 yourself and I assume up to standards of these several
13 organizations that you've mentioned and the separate individual
14 standards -- would require you knowing whether the drugs that
15 you were testing had anything to do with the case you were
16 testing them for.

17 A. Well, I know it's related to the case because the evidence
18 envelopes I receive have the case information on there.

19 I treat them as an independent analysis, but I know
20 that it's associated with this case because of the DEA 7 that
21 came into the laboratory that's associated with the information
22 that's on the evidence itself.

23 Q. Would your methods require you to know if the drugs were
24 previously mishandled?

25 A. I -- going to if they were mishandled or not, I can only

1 attest to what I found, which the purity of what I found tells
2 me that no matter what happened before, you know, saying there
3 were 12 units, methamphetamine had to be in all of those 12
4 units because my results are 99 percent methamphetamine. If
5 one of those 12 units did not have methamphetamine in it, it
6 would be less than 99 percent.

7 Q. Does your methods require you to observe or have some
8 documentation to show you how the samples were prepared for
9 your subsequent testing?

10 A. I'm not sure I understand the question.

11 Q. Well, do you need to look -- do you need to know or look at
12 how the samples that you pulled out of the evidence vault were
13 prepared?

14 A. No.

15 Q. So you're just given a bunch of packages and you're
16 supposed to test them?

17 A. Correct. It's a completely independent analysis.

18 Q. Anybody help you or assist you in your testing -- your
19 testing and your analysis?

20 A. No.

21 Q. Anybody help you write your -- your handwritten reports?

22 A. No. I did have another chemist witness the gross weights,
23 so there is an assistance; but that's it. The analysis was
24 done by me.

25 Q. And who witnessed that?

1 A. It was another chemist in our laboratory. Its just like I
2 said: This is before it's even opened. It's just she's
3 witnessing the fact that the weights are a little different
4 than they were before.

5 Q. So you've narrowed it down to a she?

6 A. Oh, yeah, it's a she.

7 Q. Who?

8 A. Oh, Marsha Lee.

9 Q. Sorry?

10 A. Her name is Marsha Lee.

11 Q. Lee?

12 A. And her initials are on my report.

13 Q. Is your -- do you know if your testing was representative
14 of the drugs seized, or just the packaging, the packages you
15 received?

16 A. Well, I can make the assumption that it's the same as
17 originally because you saw that I separated out the original
18 composite. Okay. That was Exhibit 1.02.

19 My analysis and my composite is Exhibit 1.01.

20 I did a complete independent analysis on both of
21 those, but the results from both of those were the same.

22 Q. Does the DEA have a procedures and protocols manual that
23 you are familiar with?

24 A. Well, as I stated earlier, we have numerous different
25 manuals. Parts of your procedure might be in one, parts might

1 be in the other, parts might be in this one. You use all of
2 those documentation to go about your analysis.

3 Q. And were you familiar with the provisions?

4 A. Yes.

5 Q. Can you tell me what the procedures from the DEA manual are
6 for each of the steps you took and the date and identity or
7 identification of those manuals?

8 A. Well, I --

9 MR. BOMA: Objection to the form if it refers to one
10 document, because the witness has already testified that there
11 are several documents she refers to.

12 THE COURT: Response?

13 MR. EDELMAN: I can rephrase the question.

14 THE COURT: Okay.

15 BY MR. EDELMAN:

16 Q. Identify by date and name of one of the several procedures
17 and protocol documents that you relied upon.

18 A. I don't know what you mean by dates, but one of the
19 documents I rely upon which I already testified was the
20 Analytical Sufficiency Document. And that is the document that
21 tells you -- that follows the SWGDRUG recommendations that you
22 must run at least one confirmatory and one separatory
23 technique.

24 Q. And do you know how current that document is?

25 A. I don't.

1 Q. Okay. Could you identify the next document that you
2 considered?

3 A. The Analysis of Drugs Manual.

4 Q. I don't know. I've never seen them, ma'am, so I don't know
5 which ones you've looked at.

6 A. Well, I didn't look at any of the documents. I know in my
7 head the protocol that we take to analyze the sample. So I
8 didn't refer to the document and, say, Oh, I have to do this
9 step, this step, this step. I'm not a technician; I'm a
10 chemist. I can use the discretion of my knowledge and my
11 experience in analyzing these drugs to carry about my analysis.
12 I don't have a recipe that I follow; however, I do have
13 requirements that I have to meet in my analysis.

14 Q. And you've memorized those?

15 A. I know a lot of them, yes.

16 Q. Do you know all of the ones that you had to follow for your
17 analysis of these drugs in this case?

18 A. Yes.

19 Q. Well, where you get your control from?

20 A. The control that I ran was a negative control.

21 Q. How about the positive control?

22 A. Well, I ran positive controls as necessary. Not all of the
23 instrumentations had what your calling a positive control; but
24 what I have is reference material, and I would get that
25 reference material -- I would get it as needed.

1 Q. So when you talk about reference material, you mean some
2 white powdery substance that someone else has determined is
3 methamphetamine?

4 A. Well, somebody else may have determined it. It comes into
5 our laboratory, and then it's verified. And I run this white
6 substance all the time. So I am familiar with the results that
7 I get in using that standard.

8 Q. Okay. Then this standard, are you saying, was
9 methamphetamine?

10 A. Yes.

11 Q. And some white powdery substance comes into your lab;
12 correct?

13 A. Yes.

14 Q. And you get that from some commercial source?

15 A. Or our special testing and research laboratory.

16 Q. And where is that?

17 A. That is in Dulles, Virginia.

18 Q. And how many positives did you -- how many standards or
19 substances did you use in this case?

20 A. Well, I used a standard for the Marquis.

21 Q. Uh-huh.

22 A. I used a reference library with the standard on the GCIR.

23 Q. What's a reference library?

24 A. As we spoke earlier, it's a reference library -- standards
25 don't change, so that's why there is literature out there that

1 has the -- what methamphetamine -- the GCI -- I'm sorry -- the
2 GC mass spec. of methamphetamine looks like this.

3 There is also literature out there that says it looks
4 like -- the IR of methamphetamine looks like this. That
5 doesn't change. So we -- the standard that I used was run
6 about two weeks prior to my analysis.

7 Q. Okay. I'm sorry. I'm not a chemist; and when I think of a
8 standard, I think of a chunk of drugs that, you know, is
9 methamphetamine; correct?

10 A. Correct.

11 Q. Okay. And if I understand you correctly, you receive this
12 quantity of drugs that you were sure was methamphetamine from
13 some commercial source or from your DEA headquarters or some
14 lab in, I think you said, Virginia.

15 A. I could have been wrong when I said that. It's somewhere
16 near D.C.

17 Q. D.C.?

18 A. Washington, D.C., yes.

19 Q. And how many of those chunks of known methamphetamine did
20 you have, did you use in this case?

21 A. Well, I was going into the fact that I used it for the
22 Marquis.

23 Q. So you used one. One?

24 A. Well, yes. There is more tests.

25 Q. So you used one for several tests?

1 A. No, I used more than one.

2 Q. Okay. How many?

3 A. I used -- I had three separate standards for the GC
4 analysis to get the isomer. We talked about the three
5 different isomers earlier. I used the one that I used in the
6 Marquis, and then I also used the standard for the HPLC
7 analysis when I did the quantitation.

8 Q. And do you know where each of those three came from?

9 A. Yes. They are traceable.

10 Q. And do you trace it on your report?

11 A. Yes. It has the standard number on there, which is
12 traceable back to our laboratory.

13 Q. And is that subject to peer review or some independent
14 testing person that comes in to check out the --

15 A. It was already tested before it came into our laboratory,
16 and then we tested it again to make sure that it was what it
17 was; but that data is kept in our laboratory, and that's
18 compared against literature or reference material.

19 Q. So it's not on your report that it was -- it came from ABC
20 Methamphetamine Company and was tested by such and such when it
21 came in, so we've confirmed that it is what the ABC
22 Methamphetamine Company says it is.

23 A. That is not required on my report. What is required is
24 that it's traceable. So I have Standard, for example,
25 No. 267 -- was used in my Marquis; and that is traceable to our

1 laboratory, which is traceable to where the source came from.

2 Q. It's not on the report, though?

3 A. It's not required to be on the report. It's required to be
4 traceable.

5 Q. Ma'am, I understand we're having a dispute over what's
6 required and what you believe is required. I only want to know
7 if it was on the report.

8 A. It's not on the report.

9 Q. Thank you. Now, you indicated you did about 60,000
10 exhibits. That's where your background came from -- and was
11 all methamphetamine.

12 A. That is throughout the entire DEA. That's not just my
13 analysis.

14 Q. Okay. And how many methamphetamine tests did you perform?

15 A. Over 700.

16 Q. And did you follow this same procedure you testified to
17 today?

18 A. Some of the procedures have evolved. So I've been with the
19 DEA for almost eight years. So the requirements are a little
20 bit different now than they used to be, but I've always
21 followed procedures and protocol.

22 Q. In the same lab?

23 A. Yes, and it's all -- our reports are technically reviewed
24 by somebody else, so they also make sure that I am following
25 all the policies and procedures.

1 Q. Well, by "somebody else," is that somebody else in your
2 lab, or somebody from ASCLD/LAB or one of the other accrediting
3 organizations?

4 A. It's actually both. Every one of our reports that go out
5 of the laboratory is reviewed by a supervisor. And then when
6 ASCLD/LAB came in and did their accreditation, they look at
7 data from each analyst and they make sure that we're following
8 what we say we do.

9 Q. Now, before you came into court today, did you have an
10 opportunity to read any of the testimony or documents prepared
11 by a person named Janine Arvizu?

12 A. Yes.

13 Q. What did you review?

14 A. I reviewed a document that she wrote about my declaration.

15 Q. Did you read what she testified to on April 19, 2011?

16 A. I read it once over a month ago. I've not read it again.

17 Q. And did you read anything else of hers?

18 A. Of hers? I have glanced at the document that she wrote
19 earlier about the previous analysis.

20 Q. And you used those in preparation for your testimony today?

21 A. Some of it, yes.

22 Q. And did you bring any documents today in preparation --
23 that you've reviewed in preparation of your testimony today?

24 A. Did I --

25 Q. Did you bring anything?

1 A. Yes.

2 Q. What did you bring?

3 A. I brought the document that you just referred to. I
4 obviously brought my declaration and all of the information in
5 that. I've also got some SWGDRUG and ASCLD/LAB requirements.

6 Q. And what else?

7 A. I have some documents that I've printed from like forensic
8 chemistry books, like a page here and a page there.

9 I have some things that I've cut and pasted from like
10 SWGDRUG and ASCLD/LAB that we've talked about earlier that are
11 actually in my declaration.

12 MR. EDELMAN: May I have a moment, your Honor?

13 THE COURT: You may.

14 MR. EDELMAN: Your Honor, may I request a short recess
15 so I can review the ASCLD/LAB standards that were relied upon?
16 Because they're unavailable to the public.

17 THE COURT: Response?

18 MS. MAGNELLI: Your Honor, if I may, ISO 17025 is
19 available to the public.

20 THE COURT: Thank you.

21 Reply?

22 MR. EDELMAN: Ms. Arvizu says it's not.

23 THE COURT: I think you can look at this over the noon
24 hour.

25 MR. EDELMAN: I'm sorry?

1 *THE COURT:* Please move on.

2 *MR. EDELMAN:* I beg your pardon?

3 *THE COURT:* You can look at it over the noon hour.

4 Move on.

5 *MR. EDELMAN:* Okay. Thank you.

6 Again, one moment, please, may I have, your Honor?

7 *BY MR. EDELMAN:*

8 Q. I think your declaration states in paragraph 9A that you
9 have never encountered a protocol that involves collecting a
10 standard spectrum every time an unknown is analyzed.

11 Can you tell me how many non-DEA protocols have you
12 reviewed?

13 A. Well, I reviewed protocols at my last lab, but we didn't
14 have IR there, so --

15 Q. The "last lab" meaning?

16 A. The lab -- previous lab that I worked at, yes.

17 Q. That does some testing for hops that are used to make beer?

18 A. Correct. Yes.

19 Q. Okay. But none from DEA?

20 A. I don't recall offhand seeing any other protocol from other
21 labs.

22 Q. Did you individually mark the three bags that constituted
23 Item 1.01?

24 A. I did.

25 Q. Which result from your GCMS with SMI initials, which is

1 your initials, I assume, are from which bag? Did you do that?

2 A. Yes. The -- do you want me to turn to that page?

3 Q. Sure.

4 A. Okay.

5 Q. That would be in Exhibit 1, I think.

6 A. Yes, Exhibit 1.01, page 24.

7 Oh, I'm sorry. Page 25. You'll see that it says
8 7160630. That's the unique lab number.

9 Dash 1.01. That is the exhibit number in this case
10 Dash 01. And the bag 01 is the bag that was labeled
11 "threshold."

12 Q. On page 26 of 76?

13 A. 25 of 76.

14 Q. Oh, I'm sorry.

15 A. It's also actually -- the same data is on page 26. It's
16 just zoomed into the baseline, and it's the mass spec. of the
17 other small peak that's there.

18 Q. And this is for the instrument you call Smoky?

19 A. Correct. It's the DEA Property No. 365175 -- is the
20 instrument that is used.

21 *MR. EDELMAN:* Again one more moment, your Honor,
22 please.

23 I have nothing else. Thank you.

24 *THE COURT:* Thank you. I assume you're reserving the
25 right after you get a chance over the noon hour to look at the

1 document you want to look at to ask further questions.

2 *MR. EDELMAN:* Yes, please.

3 *THE COURT:* All right.

4 Let me hear cross-examination from any of the other
5 defense counsel.

6 *MR. DRISCOLL:* If I may, your Honor, bob Driscoll on
7 behalf of Mr. Pelayo.

8 **CROSS-EXAMINATION**

9 *BY MR. DRISCOLL:*

10 Q. Good morning, ma'am.

11 A. Good morning.

12 Q. Ms. Irby, I'm reviewing your declaration and paragraph 3,
13 the first page of Exhibit 1, and the -- the scope of the
14 national testing and your personal testing; and I'm seeing that
15 you indicate here -- and you've also testified -- that you
16 analyzed more than 2300 controlled substance exhibits.

17 Would it be more accurate to say that those were
18 suspected controlled substance exhibits?

19 A. Absolutely, yes.

20 Q. And of those, some 700 were suspected methamphetamine
21 exhibits.

22 A. They came into the laboratory as suspected -- well,
23 actually I don't know offhand what they came from; but where I
24 got those numbers from, those were more than 700 exhibits where
25 I actually identified methamphetamine. So there is not a

1 speculation with that 700 number.

2 Q. So of 2300 suspected controlled substance exhibits, you
3 identified the presence of methamphetamine in a solid 700 or
4 so?

5 A. Correct.

6 Q. The balance of the exhibits, the balance, the 1600, using
7 round figures of course -- the 1600 other suspected controlled
8 substance exhibits, you did not find the presence of
9 methamphetamine.

10 A. Actually, I wasn't there when he pulled the report. And
11 sometimes when methamphetamine is the secondary substance, it
12 may not have been in that; but I actually -- I don't know.

13 Q. And then going to questions by Government Counsel regarding
14 your personal examination of suspected controlled substance
15 exhibits --

16 A. Correct.

17 Q. -- I believe the question was asked, Did you ever -- did
18 you ever -- did your findings result in a negative finding that
19 there was not a controlled substance?

20 And I remember your answer being, I always tell the
21 truth and I always present an accurate report.

22 But you didn't answer the question. And so now I'd
23 like to reask the question: In those 2300 examinations, did
24 you -- and I'd like a yes or no answer, please -- in those
25 2300 -- well, actually in the 1600 that weren't methamphetamine

1 findings, did you ever come to the conclusion that there was
2 not a controlled substance present?

3 A. Yes.

4 Q. And in how many of those examinations roughly were the
5 findings? And you can do it by number or by percentage or a
6 comfortable layman, understandable answer. But I'd like it to
7 be a quantitative answer.

8 A. Yes. This is a very rough estimate; but I would say
9 probably of all of the controlled substance I've analyzed -- I
10 would say it would maybe be a 10th of a percent, so 20 exhibits
11 out of those 2300 I may not have found a controlled substance.

12 That's a guess. I really don't --

13 Q. So 20 of the 1600?

14 A. Yeah.

15 Q. Because the other 700 we know were methamphetamine
16 findings.

17 A. Correct. That's a fair statement.

18 Q. Okay. Thank you.

19 Refocusing to another area of your testimony, I was
20 unclear, and I may have heard it wrong; but I'd like you to
21 enlighten me, if you would. After you quartered in the cone
22 and combined 101 and 102 and then proceeded to two additional
23 qualitative exams before your quantitative exam, the third, you
24 ran an infrared exam and then a GC exam. Am I right?

25 A. No.

1 Q. All right. Thank you for correcting me.

2 You ran an IRACR exam. Am I correct?

3 A. It's ATR.

4 Q. Excuse me. But that's an infrared exam?

5 A. Correct.

6 Q. And that infrared exam, as I recall from other
7 experiences -- at least my impression is that a infrared exam
8 produces a light spectrum; is that right?

9 A. It produces a picture of how the molecule reacts to the
10 light spectrum, as you say.

11 Q. Okay. And do you actually look at the light spectrum, or
12 do you just look at the results of the light spectrum?

13 A. You look at the results.

14 Q. And then how about the gas chromatography? Does it produce
15 a light spectrum?

16 A. No. It -- the only thing the gas chromatograph produces is
17 a peak.

18 Q. It burns them. Does it burn --

19 A. It does not burn them. That actually has to be in some
20 sort of organic substance in order to introduce it into the
21 instrument. Okay.

22 Q. An organic substance like water?

23 A. Like alcohol. Water is not an organic substance.

24 Q. Okay. Alcohol.

25 A. You can't introduce that into the gas chromatograph.

1 But you -- what happens is the sample that you
2 introduce goes through the column, and it separates different
3 components; so -- and then you get a picture of a straight line
4 with a peak here like -- kind of like an EKG when you see
5 those, a flat line and then you see a peak and a flat line
6 and then you see a peak.

7 Q. And you've produced those charts in your packet?

8 A. Yes.

9 Q. My question goes to is you're moving from the IR test, the
10 infrared test, to the gas chromatograph?

11 A. Yes.

12 Q. Do I understand that those are two different machines?

13 A. Correct.

14 Q. So they're in two different places in your laboratory?

15 A. Yes.

16 Q. But in the same room?

17 A. It depends on which instrument you're talking about.

18 Q. Well, I'm talking about the two instruments you used in
19 testing these exhibits.

20 A. The ATR and the gas chromatograph by itself are in the same
21 room, but there is a large wall separating the two.

22 Q. All right. And so you went to two different places to
23 perform the tests?

24 A. Correct. They were actually applied very differently.

25 Q. Excuse me. So that's a yes.

1 A. Yes.

2 Q. Okay. And did I hear you to say that the sample was
3 channeled?

4 A. No.

5 Q. From the infrared?

6 A. Oh, I said there was a transfer line; but that's a
7 completely different instrument.

8 Q. Okay. Let's talk about the transfer line.

9 A. Yes.

10 Q. When you perform the infrared testing, you took a
11 measurable amount of these the suspected control substance and
12 you put into the machine or the infrared machine. Is that
13 right? Yes or no?

14 A. Correct.

15 Q. And did you introduce it into the machine on a slide or in
16 a baggie with an eye dropper? How did you introduce the
17 unknown or the sample into the infrared machine? How did you
18 mechanically perform that task, please.

19 A. Well, if you're referring to the ATR, you just place the
20 sample directly onto the diamond plate.

21 Q. Okay. And how did you place it there? Did you use a
22 tweezer?

23 A. I used a spatula.

24 Q. Okay. And you put it onto the machine itself?

25 A. I did not put the spatula on there. I just placed the

1 sample right onto the instrument.

2 Q. And was it consumed in the testing?

3 A. Yes.

4 Q. And then did you locate a second sample, a new sample from
5 the exhibit and take it to the gas chromatograph?

6 A. Yes.

7 Q. And then tell me about the transferring that I heard you
8 comment at that point in your testimony. What was the
9 transferring or the channeling that I understood you to testify
10 about?

11 A. Okay. If we're talking about the gas chromatograph, as I
12 just said, you have to put the sample into an organic
13 substance. So I took that little portion that you are talking
14 about and I put it into a test tube and then put it in the
15 organic solvent. And then I placed it into a little test tube
16 and brought it over to an auto injector on the gas
17 chromatograph.

18 Q. Affixed to the gas chromatograph?

19 A. Correct. You just place the little vial into a little well
20 and it -- the auto sampler picks it up and runs it.

21 Q. And was that sample also consumed in the testing?

22 A. Yes.

23 Q. Did you perform a microcrystalline test relative to the
24 exhibits?

25 A. No.

1 Q. Can you explain to us what microcrystalline test is?

2 A. A microcrystalline test is to look at the actual substance
3 under the microscope.

4 Q. So you just put a piece of it on a slide, introduce the
5 slide into a microscope, and look at it?

6 A. I actually have never actually done a microcrystalline
7 test, because so I have all these other instrumentations in our
8 laboratory. So I'm really not comfortable going to that area.

9 Q. You're not comfortable looking through a microscope at a
10 crystal?

11 A. I am comfortable with looking through a microscope. I'm
12 not comfortable saying anything about that because that is not
13 something that I -- I'm used to doing.

14 Q. But how about just answering my questions? Are you
15 comfortable doing that?

16 A. Yes.

17 Q. Okay. Are you familiar with the use of a microcrystalline
18 test?

19 A. Yes.

20 Q. And is it not a fact that microcrystalline testing of
21 crystalline substances like methamphetamine hydrochloride is
22 and has been a common examination technique that was used in
23 tens of thousands if not hundreds of thousands of examinations
24 of methamphetamine hydrochloride? Yes or no.

25 A. Yes.

1 Q. And it is a recognized technique that is sanctioned by the
2 Drug Enforcement Administration for decades. Is that a fact?

3 A. Yes.

4 Q. And it was not performed in this examination?

5 A. That's correct.

6 Q. And the examination is as simple as taking a piece of
7 Exhibit 101 and 102 and looking at it and then taking a little
8 piece of the standard sample and looking at it and drawing a
9 conclusion as to whether they look the same?

10 A. Again --

11 Q. Yes or no. Is that what it is?

12 A. I can't -- I don't know because it's not something I've
13 done.

14 Q. You don't -- you've never done a microcrystalline test?

15 A. I have not.

16 *MR. DRISCOLL:* No further questions, your Honor.

17 Thank you.

18 *THE COURT:* Thank you.

19 *MR. BAKER:* Thank you, your Honor.

20 **CROSS-EXAMINATION**

21 *BY MR. BAKER:*

22 Q. Good morning, Ms. Irby. My name is Mitchell Baker.

23 Could you take a look at Exhibit 1? And I don't know
24 whether it's easier to go to page 22 of 76 or Irby Declaration
25 007.

1 A. Yes.

2 Q. Do you see what I'm looking at?

3 A. I do.

4 Q. And do you have sort of like a black kind of blobby thing
5 in front of you?

6 A. Yes.

7 Q. Can you tell us what those are, please.

8 A. Those are photos that I took in this case. And I knew when
9 I made this photo that it wasn't good, so I put color copies at
10 the end of this.

11 *MR. BOMA:* Your Honor, those have been served in
12 discovery in this case, the photographs that he's referenced.

13 *MR. BAKER:* Okay. As long as we have them someplace,
14 we'll figure out what goes with what.

15 And they're identified how? I mean is there a way
16 we're supposed to know?

17 (Discussion off the record between Ms. Magnelli and
18 Mr. Baker.)

19 *BY MR. BAKER:*

20 Q. Do you have the color photos with you?

21 *THE COURT:* Can you speak in the microphone, please.

22 *MR. BAKER:* I'm sorry.

23 *BY MR. BAKER:*

24 Q. Do you have the color photos with you?

25 A. I do.

1 Q. Can we just see what they are, please.

2 A. They're not -- I don't have them with me here.

3 MR. BAKER: I'm just trying to pair up. I'm not sure
4 that anything I have -- I have color photos, your Honor, but
5 trying to --

6 THE COURT: Let me ask this question: Was this served
7 electronically? Was this served electronically?

8 MR. BOMA: No, your Honor, but color copies were made.

9 THE COURT: You served in paper and you attached color
10 copies to what you served in paper?

11 MR. BOMA: Yes, your Honor.

12 THE COURT: Okay. Does that answer your question,
13 Mr. Baker?

14 MR. BAKER: I believe I was given color copies, your
15 Honor. The problem is that there is no way that I think was
16 available to us to determine the color copies we have received
17 bore any relationship to what's on this page. Now that they've
18 been identified for us, we know what they are. That was all I
19 needed to do.

20 THE COURT: Thank you.

21 MR. BAKER: Thank you.

22 MR. GOLLA: Your Honor, I have no questions at this
23 time.

24 THE COURT: Thank you, Mr. Golla.

25 MR. BROWN: Thank you.

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CROSS-EXAMINATION

BY MR. BROWN:

Q. Good morning, Ms. Irby.

A. Good morning.

Q. You indicated early in your testimony when Mr. Boma was asking you questions that when ASCLD inspection took place in February of 2010 that they looked at all documentation. You also, I think, indicated that there was spot-checking. Is it fair to say that they didn't look at all the documentation in the lab but it was merely a spot-checking exam?

A. There were surveillance visits between 2005 and 2010, and they -- they do do a spotcheck. But as I said earlier, we also do an internal audit of our documentation as well as external coming to our laboratory. And that information is sent to ASCLD along with the surveillance visit.

Q. So their responsibility is not to double-check all the work within the lab.

A. I -- when they do the initial assessment and when they did the reaccreditation, they're looking at everything; but when they --

Q. February, 2010, was a reaccreditation?

A. Correct.

Q. Is your testimony that they inspected the underlying data for all the testing that was occurring in the lab between 2005 and 2010?

1 A. They did not look at every exhibit, but they spot-checked
2 an exhibit. They looked at every part of our system against
3 those two documents, ISO 17025 and the ASCLD supplemental.

4 Q. So they might pull a particular test that was performed.
5 Then it would be retrieved by a lab person, and that particular
6 folder would be tested as perhaps a representative sample of
7 what was going on in the lab; correct?

8 A. They don't retest anything. They look at the --

9 Q. I didn't ask you about retesting. I asked you whether or
10 not they looked at the underlying data, meaning the
11 documentation?

12 A. Yes. I'm sorry. I thought you said "tested."

13 Q. So they reexamined the documentation. From that they try
14 to extrapolate whether the -- whether the lab's practices are
15 consistent with or inconsistent with their protocols.

16 A. Well, it goes further to that. It's to -- to their
17 protocols and also our protocols. They -- our protocols have
18 to match those two documents. And then they look at objective
19 evidence to make sure that we're doing what we say we do.

20 Q. If you had generated a thousand documents hypothetically --
21 okay -- representing a hundred percent of the documentation
22 within the lab between the original accreditation in '05 and
23 the reaccreditation in 2010, how many pages, to kind of
24 correlate to a percentage, of that documentation would have
25 been looked at during the reaccreditation visit in 2010?

1 A. Also just to let you --

2 Q. It's okay. I don't want to know. I just want to know the
3 answer to that question.

4 A. They look at all of our documents.

5 Actually, before they come into the laboratory and do
6 the visit, they look at the documentation prior to that so that
7 they don't have to spend the whole entire time that they're at
8 the laboratory looking at the data. They've already looked at
9 the policies and procedures.

10 Q. So let me ask you this: There is reaccreditation, I
11 assume, that will take place in 2015.

12 A. Correct.

13 Q. And at that time, will the examiners from ASCLD look at the
14 documentation that is the underlying data that's contained in
15 peoples exhibit -- Government's Exhibit 1?

16 A. Yes.

17 Q. When you were asked -- You have responsibility as a senior
18 forensic chemist; correct?

19 A. Yes.

20 Q. And in the course of that responsibility, you do
21 spot-checking of other lab technicians?

22 A. Actually, it's not -- it's my quality assurance duties
23 where I spot-check other people's work.

24 Q. Okay. So kind of more of your administrative hat?

25 A. Yes.

1 Q. And you have that responsibility in November of 2010?

2 A. Yes.

3 Q. And you have spot-checking responsibilities for Ms. Chan?

4 A. Yes.

5 Q. During the course of your spot-checking responsibilities of
6 Ms. Chan during November of 2010, wearing the quality assurance
7 hat, did you review her work in connection with this case --

8 *MR. BOMA:* Objection. Relevance.

9 *MR. BROWN:* -- the testing that we're referring to in
10 this proceeding.

11 *THE COURT:* Mr. Brown, this is far outside the scope
12 of a 702 determination with regard to the opinion formulated by
13 this witness. Please move on.

14 *MR. BROWN:* If I may --

15 *BY MR. BROWN:*

16 Q. When you -- when you retrieved the items, when you broke
17 them down, Items 1.01 and 1.02, from the two evidence bags that
18 you retrieved from the DEA locker -- do you recall doing that?

19 A. Yes.

20 Q. Was there an accompanying packet of documents that
21 corresponded to those exhibits that you reviewed?

22 A. There was one sheet of paper, and that's called a DEA 7.

23 Q. Okay. And the DEA 7 basically documented the original
24 seizure of the narcotics?

25 A. Yes. That's filled out by the agent. That is just a paper

1 trail for me.

2 Q. So you didn't go to any other data to see what other prior
3 testing had been done?

4 A. No.

5 Q. Now, when you looked at those, the DEA 7, you could see
6 that there were 12 individually packaged items that had
7 originally by virtue of the DEA 7 been delivered to the DEA
8 lab?

9 A. Yes.

10 Q. You didn't see the 12 individually packaged items, the did
11 you?

12 A. I have seen them in a photo.

13 Q. But they weren't in that condition when you received them?

14 A. That's correct.

15 Q. And, in fact, they had been broken down into two packets
16 and, is it three, sub-packages?

17 A. It's two heat-sealed evidence envelopes and four Ziploc
18 bags.

19 Q. And the mass of what you received -- had any of it been
20 disposed of between the authoring apparently of the DEA 7 and
21 your examination, or did it appear to be in at least the
22 original quantity, if not the type of packaging?

23 A. I'm not sure I understand your question.

24 MR. BOMA: Objection. Chain of custody.

25 MR. BROWN: I think what we're trying to understand,

1 your Honor, is the methods by which the evidence was tested.
2 And as such, the condition that this witness tested them in
3 comparison to the other documentation regarding the substances
4 is important to understand the results.

5 *THE COURT:* No, it isn't. This witness has proffered
6 an opinion based on what she tested. If you want to inquire as
7 to how the substance that she tested was dealt with before she
8 tested it, it is a chain-of-custody question.

9 *MR. BROWN:* I understand.

10 *THE COURT:* And that, you can raise at trial but not
11 in the scope of the 702 hearing.

12 *MR. BROWN:* I understand the legal distinction the
13 Court is making. Thank you.

14 *BY MR. BROWN:*

15 *Q.* Ms. Irby, with respect to the individual standards that you
16 used, I understand you used a total of five positive standards.
17 There were three for the isomer testing, one for the Marquis,
18 and one for the HCPL?

19 *A.* Yes. The HPLC.

20 I used three -- or I mean that's five what you would
21 call a "positive" standard.

22 *Q.* Fine. And you said one of them you're able to identify by
23 number, 267.

24 *A.* Oh, no. The other ones I can identify by number as well.

25 *Q.* Okay. Let's talk about -- okay. So were there five

1 separate identifiable standards including 267?

2 A. Let me clarify. For the Marquis, I used Methamphetamine
3 No. 267. Okay.

4 In my GC analysis for isomer, I used 267, 285, and
5 570.

6 And for my HPLC, I used No. 618. And all of those
7 standards are traceable in the laboratory.

8 Q. Okay.

9 A. They're my documents, so that -- so they can be traced.

10 Q. Okay. Let's talk about first of all do you know -- Well,
11 each of those standards: Were they produced commercially, or
12 were they produced at a DEA lab somewhere around Washington,
13 D.C.?

14 A. I do not know.

15 Q. And with respect to when they have been received at the
16 Western Regional Lab, because no matter how the source came,
17 from which source, they're always delivered to the Western
18 Regional Lab. And you said a retesting will occur there;
19 correct?

20 A. Correct.

21 Q. To verify, for example, that it's methamphetamine?

22 A. Yes.

23 Q. Now, when that occurs, for example, with the HPLC testing
24 and that one you said was Standard 618, it could be done on any
25 one of several instruments within the lab that do HPLC testing;

1 correct?

2 A. That Methamphetamine Standard No. 618, I could have used
3 that on the Marquis.

4 Q. We're not -- It's really easy for me to get confused here.
5 So that HPLC is not the Marquis; correct?

6 A. Correct.

7 Q. I want to talk about the HPLC testing. When 618 comes into
8 the lab and it's going to be used in HPLC testing you have more
9 than one instrument at the lab for HPLC testing?

10 A. Yes.

11 Q. And when it comes into the lab in, when, 2002, 2006, 2009?
12 When did 618 come in?

13 A. I don't know. That is traceable back to the laboratory.

14 Q. Which piece of equipment was it testified [sic] in order to
15 verify it was a reliable standard?

16 A. I don't know.

17 Q. And you cannot tell this court whether or not, then, in
18 fact that the confirmation of that as a viable standard at the
19 lab was done on the same type of -- the same instrument that
20 you used; correct?

21 A. That's correct.

22 Q. And in your declaration, which is People's [sic] Exhibit 1,
23 you indicate that that can be a very important criteria in
24 establishing whether the standard utilized is scientifically
25 valid; correct?

1 A. I'm not sure I understand your question.

2 Q. Let me direct you to page 4 of your declaration, which is
3 contained in Exhibit 1. And it's under section No. 8, 8H,
4 which is at page 4.

5 A. Okay.

6 Q. And I'll just read it. It says, quote, "There are some
7 other instrumental techniques, including chromatographic
8 methods where the data is not necessarily invariant between
9 different instruments and at different times. In these
10 instances, it is prudent to include a positive control when the
11 data is collected for an unknown sample for the added purposes
12 of comparison," end of quote.

13 You authored that; correct?

14 A. Correct.

15 Q. And that deals with the topic that we're talking about,
16 which is the instruments can have variations in the graphical
17 information they produce, even if you're testing the same
18 substance; correct?

19 A. Yes.

20 Q. And so it would be important to identify that the standard
21 that's received in the lab and which is being used by you for
22 comparison to determine that it's methamphetamine was done on
23 the same machine as that which you're testing the received
24 evidence from?

25 A. No. You're misunderstanding the purpose of a standard. A

1 standard coming into the laboratory -- and that standard is
2 going into our reference material -- that standard can be run
3 on any instrument.

4 On HPLC, we're saying that that be invariant. I've
5 ran a standard. It's -- okay.

6 Let me start over.

7 The initial verification of that has to be done on
8 those one -- on one of those four instruments that are
9 confirmatory in our laboratory. Okay. As we said, HPLC is not
10 confirmatory.

11 So when I ran that standard 618, it had already been
12 verified to be what it is on another instrument that is able to
13 confirm that. So now that standard is able to be used in the
14 laboratory.

15 So now I use that standard on the HPLC to compare it
16 against the unknown. That standard is a known substance.

17 When I run that standard on the HPLC, it's being run
18 as a known. I know what it is, I know the percentage of it.

19 Q. Okay. Let me ask you this: With respect to these
20 standards -- particularly, to identify, we're talking about
21 618 -- do they have a usage life like, you know, what would
22 appear on a medicine bottle as an expiration date?

23 A. No. But let me tell you about our standards --

24 Q. Well, let me ask you -- thank you for answering the
25 question.

1 They don't have an expiration date on them; but they
2 do have a scientifically expected date that they would expire;
3 that they would no longer be usable based upon time; correct?

4 A. Not that I'm aware of.

5 Q. Do these -- does everything in this courtroom, in a
6 laboratory, have a half life?

7 A. I'm not sure where you're going. I can go back and say
8 that our standards are verified once every three years.

9 Q. Do they degrade over time?

10 A. No.

11 Q. They don't degrade over time. So if I took 618 and I take
12 it out of its packaging on the day it's received at the lab, do
13 you expect that it will be in the identical chemical
14 competition [*sic*], the same quality and integrity on that date
15 as in 20 years from that day?

16 A. Yes.

17 Q. Same -- same would apply in the other laboratories that
18 you've worked with other materials which constitute standards?
19 For example, when you were testing hops, you would expect --
20 did you ever test them against standard, the hops that you
21 received?

22 A. Yes.

23 Q. Does hops degrade over time?

24 A. Hops do, yes. They're a plant material.

25 Q. It's an organic material. Is this -- is -- and it's

1 comprised of chemical compounds; is that correct?

2 A. Yes.

3 Q. So you'd say, to take this to, I guess, absurdity, you
4 would say to infinity, 618 is still going to be viable and
5 usable in the lab?

6 MR. BOMA: Objection. Calls for speculation on the
7 part of the witness.

8 THE COURT: I'll allow the witness to answer.

9 THE WITNESS: I'm sure -- I can't attest to infinity
10 because I'm not going to be around to test it; but -- I'd also
11 like to clarify that there are some substances in our
12 laboratory -- each substance is individually -- individual and
13 unique; so there might be a substance that does degrade over
14 time. Methamphetamine to my knowledge does not degrade.

15 BY MR. BROWN:

16 Q. But it does evaporate.

17 A. Yeah.

18 Q. So that when you took the material from the initial vault
19 and took it out and you crossed -- cross-checked the gross
20 weight, you determined that the material had degraded because
21 you have evaporation?

22 A. And let me clarify.

23 Q. Yes or no.

24 A. It's not the methamphetamine that is degrading. It's the
25 solvent that's -- the methamphetamine is losing the solvent.

1 The methamphetamine is not changing.

2 Q. What was the period of time over which you determined the
3 solvent had degraded and evaporated?

4 A. I don't know. I just know that I got the evidence on
5 April 26.

6 Q. And from that you made a determination that it was a small
7 amount that had been lost in the gross weight; correct?

8 A. Yes. I don't know the numbers offhand.

9 Q. But small amount would be in proportion to time; correct?

10 A. Not necessarily. It can also be to a weight.

11 Q. Correct. One of the factors would be time, wouldn't it?

12 A. It could be time and weight.

13 Q. If you see that the material is degraded over a very short
14 period of time, a period of seconds, then whether or not it's a
15 small or large manner of degradation would be different;
16 correct?

17 MR. BOMA: Objection. Asked and answered. She said
18 it didn't degrade.

19 THE COURT: I'll allow her to answer.

20 THE WITNESS: I think it depends -- it's dependent on
21 what you're talking about. You know, if something is going to
22 go away in the air right away, then time might be a necessity.
23 Alls I can attest to is the fact that I noticed the weights
24 changed. And I got them initialed so that that other witness
25 says, At this time, this is what they weighed. That was the

1 purpose of that.

2 *BY MR. BROWN:*

3 Q. You tested the purity of 1.01 and I believe 1.02 as, I
4 think, respectively 99 and 96 percent rounded to the nearest
5 percentile?

6 A. No, 99 and 98.9 respectively.

7 Q. Thank you. And were you aware that that -- that substance
8 had been previously tested in the lab?

9 A. Yes.

10 Q. For purity?

11 A. Yes.

12 Q. Were you aware that the previous determination in the lab
13 was 96.3 percent?

14 A. No.

15 Q. Would you like to review a lab report dated November 10,
16 2010, which indicates that the purity was 96.3 percent?

17 *MR. BOMA:* Objection. Relevance.

18 *THE COURT:* Sustained. Whether she wants to review a
19 lab report or is not isn't relevant, and whether there is a lab
20 report or not is not relevant for purposes of the 702
21 determination.

22 *MR. BROWN:* May I have one moment, please, your Honor?

23 *THE COURT:* Uh-huh.

24 *MR. BROWN:* Nothing further at this time, your Honor.

25 *THE COURT:* Thank you. I think we've addressed the

1 cross-examination of all defense counsel who wanted to examine.
2 Am I; right, Mr. Baker?

3 *MR. BAKER:* I had my moment in the sun there. Thank
4 you.

5 *THE COURT:* Okay. Good. Then we'll take a noon
6 recess and we'll all go back to our organic chemistry textbooks
7 that we studied in high school and college. And over the noon
8 hour Mr. Edelman will have an opportunity to review the
9 standard he wanted to review. When we reconvene, if you want
10 to ask some more questions along that line, you're free to.

11 *MR. EDELMAN:* I have an additional request, if I may.
12 I'd like to see all of the DEA laboratory's procedure manuals
13 and protocol manuals to help prepare for my cross-examination,
14 which we've asked for and never received.

15 *THE COURT:* Response?

16 *MR. BOMA:* DEA does not disclose their internal -- the
17 ASD, I believe it is, the manual; and the Government submits
18 that with Ms. Irby's packet, if you will, of data, it lays out
19 clearly what tests were done, what the results were. And as
20 the witness has testified to, a competent chemist could
21 replicate those results or come to the same conclusions based
22 upon the data so far.

23 *THE COURT:* So Mr. Coma, is it fair to say that the
24 Court should disregard, then, all of Ms. Irby's testimony that
25 what she did complied with DEA standards?

1 MR. BOMA: No, your Honor. The DEA's position is that
2 the manual itself is not discoverable.

3 THE COURT: Well, I will be disregarding all of that
4 testimony that she complied with DEA standards unless you want
5 to share the standards that she complied with, with defense
6 counsel. I'm happy to consider whatever protective order you'd
7 like to request.

8 MR. BOMA: Your Honor, we also have testimony
9 regarding SWGDRUG, and those documents are available in the
10 public domain.

11 THE COURT: Well, that's fine; but that's not what's
12 been requested.

13 MR. BOMA: So they have access to that, SWGDRUG.

14 THE COURT: Do you want to ask for a protective order
15 and disclose the DEA standards that this witness testified she
16 complied with, or do you want me to disregard all of her
17 testimony that she complied with DEA standards?

18 MR. BOMA: Your Honor, the Government, after
19 conferring with Ms. Magnelli, we'll rely upon the SWGDRUG and
20 the open source materials which were referenced during the
21 testimony. And we do submit that the attachment to -- in
22 conjunction with Attachment 3 and also her resumé --

23 THE REPORTER: I'm having trouble hearing you, Mr.
24 Boma.

25 MR. BOMA: I'll go to the podium.

1 -- that 162-1, including the three attachments
2 thereto, satisfy our Rule 16 and 702 requirements and that
3 we -- I don't believe the Government's under any burden to
4 supply documents that are in the public domain, such as
5 SWGDRUG.

6 *THE COURT:* That's not the issue, Counsel.

7 *MR. BOMA:* In terms of DEA internal documentation or
8 manuals, this is not like a report or something that we turn
9 over. So we would not be disclosing the manual. There are,
10 however, 4 pages of excerpts from the manual in the
11 Government's earlier submission relating to Ms. Chan.

12 *THE COURT:* Well, but you've told me we're not relying
13 on what Ms. Chan did --

14 *MR. BOMA:* But there are manual excerpts that are in
15 there, your Honor, four pages. And that's the extent of what I
16 know of.

17 *THE COURT:* I'm going to disregard all references to
18 the fact that Ms. Irby followed DEA standards. You're not
19 relying -- you've told me you're not relying on what was
20 supplied with regards to Ms. Chan's opinions. You've told me
21 that it's DEA policy not to disclose its standards. And
22 therefore, the Court cannot consider whether the witness
23 complied with those standards as part of evaluating the
24 reliability of the methodology.

25 That resolves Mr. Edelman's request for copies of the

1 standards, and we'll stand in recess until 1:30.

2 (Recess at 12:13 p.m.)

3 (Reconvened at 1:38 p.m.)

4 *THE COURT:* Please be seated.

5 *MS. MAGNELLI:* Your Honor, if I may address the Court.

6 *THE COURT:* You may.

7 *MS. MAGNELLI:* Your Honor, again, my name is Solette
8 Magnelli; and I've been cross-designated as Special Assistant.
9 I actually used to be an AUSA, so it's kind of nice to be home,
10 so to speak.

11 What I have done, just so the Court understands --
12 DEA, given how large we are and the fact that we operate in
13 every jurisdiction -- we have these policies in place about
14 what we produce and what we don't produce. However, I am not
15 authorized to deviate from that policy.

16 So during the lunch break, I called back to
17 headquarters and explained the situation. And through some
18 conferencing on their behalf, we have identified documents to
19 produce to the defense that we are in the middle of trying to
20 gather. We have half of it together with enough copies. And
21 these are the procedures and protocols with regard to
22 methamphetamine that Ms. Irby has been testifying about.

23 *THE COURT:* All right.

24 *MS. MAGNELLI:* I also wanted to clarify that there
25 seems to be a confusion on some behalves in terms of the ISO

1 17025 and the supplemental requirements. As I said on the
2 record, ISO 17025 is publicly available; however, both
3 documents are copywritten [sic]. The supplemental requirement
4 is not something that we have, nor if we had it here could we
5 turn it over. When we are accredited, we are provided with a
6 copy of that; and we sign a contract, a nondisclosure
7 agreement. So the defense would have to go to ASCLD/LAB
8 directly to Executive Director Bud Keaton, I believe, and
9 request that information. That is just simply not ours to
10 give.

11 *THE COURT:* All right.

12 *MS. MAGNELLI:* And I believe Mr. Boma has some
13 additional items on the documents.

14 *THE COURT:* Thank you.

15 *MR. BOMA:* Your Honor, just to follow up on
16 Ms. Magnelli, what we have in hand right now is what's known
17 and been referred to as excerpts or -- excuse me. It's the
18 entirety of the ASD, Analysis Sufficiency of Drug Evidence,
19 referred to as the ASD. That is what I would term a generic
20 document dealing with drug evidence in general.

21 There is another -- DEA's lab operating manual section
22 7002. And this is also what I would term a generic document
23 dealing with lab procedures that were testified to this
24 morning.

25 And finally we do not have or -- excuse me -- there is

1 an Evidence Sampling Plan, which I don't think I mentioned.
2 That's relates to analysis or sampling from controlled
3 substances in general, and that is not here yet.

4 The lab operating manual Section 7002 is in the
5 process -- they're both in Denver in terms of being on a
6 computer and they're being printed and copied at this time.

7 And we would seek a protective order from the Court.
8 No. 1, we'd ask that no photocopying of any kind be permitted
9 of these documents --

10 *THE COURT:* How do you plan on getting these to
11 Defense Counsel?

12 *MR. BOMA:* Your Honor, they're in the process of being
13 duplicated now; and we'll get them as soon as they're
14 photocopied.

15 *THE COURT:* So what you're planning on doing is giving
16 hard copies to each of defense counsel?

17 *MR. BOMA:* That's correct, your Honor. Photocopies.

18 *THE COURT:* And then you're asking them not to
19 photocopy it.

20 *MR. BOMA:* Yes, your Honor. And we're asking no
21 disclosure of these documents beyond the confines of this
22 courtroom. And we're numbering the copies of the documents
23 similar to what we do with indictments before the grand jury.

24 And we would ask that all these documents that are
25 being disclosed pursuant to our requested protective order be

1 returned to the Government at the conclusion of this hearing.
2 And I've asked DEA to allow me to maintain one copy of all
3 these documents in my office. If someone wants to come by and
4 refer to them, read them again, they can do that; but we would
5 not -- request that they not be allowed to photocopy them or
6 remove them from the premises.

7 *THE COURT:* Thank you.

8 What's the defense's perspective?

9 *MR. EDELMAN:* Your Honor --

10 *MR. BOMA:* Your Honor, if I might. I forgot one
11 thing.

12 If the Court retains a copy and wishes to file it,
13 we'd ask that that filing be done under seal so that it's not
14 public domain.

15 *THE COURT:* Thank you.

16 *MR. BOMA:* Thank you.

17 *MR. EDELMAN:* Good afternoon, your Honor.

18 The first thing I would like to address is what I
19 understood your order during the latter part of the morning
20 session and at the end of the session for the Government to
21 turn over the ASCLD/LAB supplemental documents that I believe
22 the witness testified she had with her and had relied upon to
23 give her testimony.

24 *THE COURT:* Sir, I didn't order that.

25 *MR. EDELMAN:* Okay. In any event, we didn't get it.

1 *THE COURT:* Okay.

2 *MR. EDELMAN:* And it may be copyrighted, it may not be
3 copyrighted; but I think your order would probably supersede
4 copyrights.

5 There may be an agreement that was signed between the
6 DEA and ASCLD/LAB. There may not have been. But copyrighted
7 documents are shared all the time: books, Westlaw documents.
8 That may or may not be a violation of copyright law. It may.
9 I think it's the -- the responsibility of ASCLD/LAB to enforce
10 their copyright rights.

11 In any event, we didn't get it; and it's not subject
12 to public domain.

13 With regards to whatever the Government is offering to
14 give Defense Counsel at this time, I don't know if it's going
15 to be sufficient. They have to show it -- the documents to us,
16 and Ms. Arvizu has to look at them because I wouldn't know if
17 they're accurate, not accurate, current, not current, or those
18 standards that were utilized by this witness during the time
19 that she did the testing.

20 The Court recalls she testified that she memorized
21 them; she doesn't recall what year they were promulgated or
22 effective.

23 *THE COURT:* This sounds like it comes to the defense
24 counsel as somewhat of a surprise and you haven't had an
25 opportunity to talk with the Government about what is being

1 supplied, when it would be supplied, what you need to review,
2 who you'd like to have review it. Is that fair?

3 *MR. EDELMAN:* Yes.

4 *THE COURT:* Well, would you like a continuance right
5 now so that you can confer?

6 *MR. EDELMAN:* If that's the only option available to
7 the Court, then -- and defense counsel --

8 *THE COURT:* Well, what would you prefer?

9 *MR. EDELMAN:* The evidence be excluded because of
10 discovery abuses.

11 Now, if I may, on 11-19, 2010, I asked for all this in
12 my motion for additional discovery. The Government, as I
13 understood it, offered to give this information at the
14 conclusion of the 702 hearing on April 19, 2011. We rejected
15 that offer because we didn't need it. The Court already ruled,
16 excluding the evidence.

17 Subsequent to that time, the Government filed
18 Ms. Irby's declaration and opinion. The Government did not
19 volunteer to give us any of that information that they
20 apparently in a broad sense offered to give us. And I don't
21 know exactly what they offered because it was general in
22 nature. So they've had another opportunity to give it, give
23 the information to us so Ms. Arvizu can adequately consider it.

24 And a transcript was prepared of that hearing. I
25 think the Government had access to it. Certainly they could

1 have ordered their own transcript to know specifically what
2 Ms. Arvizu testified about with regards to documents she has
3 not seen or did not see. And if the Court denies the motion *in*
4 *limine* and disallows the opinion, at a minimum we're going to
5 need the evidence, the documents at trial, because at that time
6 it's my understanding that Ms. Irby's testimony will be subject
7 to cross-examination for the fact-finder to give it whatever
8 weight the fact-finder would like.

9 So that's my position, your Honor. They've had -- the
10 Government has had more than adequate opportunity. They've
11 never asked for a protective order before.

12 By the way, a protective order for -- just to give me
13 the documents, without allowing at least one copy for
14 Ms. Arvizu to review, is unacceptable. And I'd ask that she be
15 included in the protective order at a minimum.

16 *THE COURT:* Other counsel: Are you prepared to
17 address this, or would you like to confer?

18 *MR. BROWN:* May I have one moment to address the
19 Court? May I address the Court?

20 *THE COURT:* Sure.

21 *MR. BROWN:* I did have an opportunity to speak a
22 little bit with the Government, so I think we've made some
23 progress on particular items that they're willing to disclose.

24 For example, your Honor, there are certain topical
25 areas that we've identified that the Government is prepared

1 shortly -- I don't know how shortly; timing is an issue -- to
2 provide to us. One is an analytical sufficiency document. The
3 other is a sampling plan, and the other is an analysis of the
4 drugs manual as pertaining to methamphetamine.

5 These broad areas of disclosure should for the most
6 part satisfy our ability to investigate the policies of the DEA
7 lab. Perhaps one other document, a table of contents, may
8 clarify.

9 But I think that the Court's proposal that we confer
10 on this is sound, and I think that the chances that we'll be
11 able to conclude our hearing today are unlikely; so
12 understanding that the Court is willing to allow the Government
13 to disclose the policy, procedures, and manuals information
14 that have been previously been presented [sic] to us, I am
15 moving to continue this hearing so that we would have an
16 opportunity to review the documentation.

17 I do think that Mr. Boma's plan as stated regarding
18 the protective order would be difficult to comply with. It
19 seems like, as Mr. Edelman was proposing, that we could take
20 the documents from the courtroom, we could make copies in order
21 to provide them to our expert, and then return them to the
22 Government at the conclusion -- seems sound. But I think we'll
23 need at least a week, given the complexity of the
24 documentation, in order to complete that review.

25 Can -- may I confer with Mr. Edelman and cocounsel?

1 *THE COURT:* No. We're going to take a recess. And
2 we're going to take a recess because all defense counsel need
3 to confer together and figure out what your positions are with
4 regard to this. I think you also need to talk with the
5 Government to determine whether or not the suggested protective
6 order is something you can live with. These are issues that
7 we're not going to process sort of in the courtroom. Please
8 confer, discuss; and when you're ready to reconvene, let
9 Ms. Glover know and we'll be glad to reconvene.

10 *MR. BOMA:* Your Honor, if it please the Court, until
11 the Court rules on the terms of the protective order, we would
12 defer turning over the documents at this time.

13 *THE COURT:* I haven't authorized the turnover of the
14 documents at all yet.

15 *MR. BOMA:* Yes, your Honor.

16 *THE COURT:* So we'll stand in recess.

17 (Recess at 1:51 p.m.)

18 (Reconvened at 2:24 p.m.)

19 *THE COURT:* Please be seated.

20 *MR. BOMA:* Your Honor, we'd ask that Ms. Irby be
21 allowed to step down, remain in the courtroom.

22 *THE WITNESS:* Thank you.

23 *THE COURT:* Absolutely. She may step down.

24 *MR. BOMA:* Thank you.

25 *THE COURT:* All right. Where do you stand?

1 MR. BOMA: Your Honor, Mr. Baker is going to be --

2 THE COURT: Are you the lead?

3 MR. BAKER: No. I think -- I think when you're at the
4 other end is when you get to do things like this, your Honor.
5 I'm not the lead.

6 THE COURT: Okay.

7 MR. BAKER: So as I understand things, the defense as
8 a group would like to join in Mr. Edelman's motion that he made
9 initially that the evidence all be stricken because it wasn't
10 turned over; any reference to any of this be stricken because
11 the discovery wasn't turned over in a timely fashion.

12 We understand that the Court -- or we don't understand
13 for sure, but it did not seem like the Court was terribly
14 receptive to that idea. If the Court is not receptive to that
15 idea, we've reached an agreement with the Government, subject
16 to the Court's approval, which would involve the Government
17 turning over what they described as approximately 40 pages of
18 documents to us. They have copied them. But rather than doing
19 it in a sort of piecemeal way, we've agreed that they would
20 Bates stamp them and do them in a formal way and get them to
21 us. They'll have them in the mail by next Friday, June 3.

22 We would agree that those documents would be subject
23 to a protective order that would involve nobody copying the
24 documents. The documents would be kept in the custody of the
25 attorney and Mr. Edelman's expert, who would also be subject to

1 the protective order. So there be one additional copy beyond
2 the attorneys currently on the case.

3 If any other attorney decided to hire another expert
4 or do anything along those lines, we could apply to the Court
5 to have that expert have access to these documents with notice
6 to the Government.

7 At the end of the case, all of the documents would be
8 returned to the Government.

9 That's that part of it.

10 Then the rest of it, I think, is going to depend
11 somewhat on the Court's schedule and on the expert's schedule.
12 It's not my expert, so I don't have an in-depth knowledge of
13 her schedule. My understanding is that she's got a very, very
14 busy June and will need some period of time to review the
15 documents.

16 Also, we don't know what the documents are. The
17 Government -- it's a little bit of a Catch-22. They can't tell
18 us what they're giving us until there is a protective order.
19 We don't know whether they're giving us what we're asking for
20 until we see them.

21 So we may need to have a little bit of time built in
22 so that if we feel we haven't gotten what we think we're
23 entitled to we can make a further request either upon the
24 Government, or if that doesn't work, upon the Court.

25 And then at a time after that, convenient with the

1 Court's schedule, we have to pick up where we're leaving off at
2 this hearing. And we've all spoken; and, of course, it's
3 totally up to the Court. If that necessitates a continuance of
4 the trial, then so be it. We need to get this done.

5 So that's kind of as best we could, covering all the
6 issues that we have any control over.

7 *THE COURT:* Mr. Baker, I have a question for
8 defense -- for the defense counsel; and it may be that in
9 answering this question you need to confer with your
10 colleagues. And let me start with a predicate before I ask the
11 question: There seems to be some confusion here between what
12 the purposes of this hearing are and general discovery. And,
13 in fact, that was one of the problems that became apparent when
14 Mr. Edelman was stating what his client's position was.

15 Is it the defense's position that you want to proceed
16 with this hearing based on the record that's been made without
17 reference to the DEA regulations?

18 *MR. BAKER:* May I -- I'm sorry.

19 *THE COURT:* Hold on -- but that you want discovery for
20 purposes of trial, or is it that you want to proceed with
21 regard to this hearing without regard to the DEA regulations
22 and you don't need any discovery for purposes of trial?

23 *MR. BAKER:* Just so I'm clear -- and I think we
24 definitely do need to consult -- does this go back to the
25 statement that the Court made prior to the recess, which was to

1 the effect that the Court would not consider compliance with
2 DEA regulations?

3 *THE COURT:* Yes, sir.

4 *MR. BAKER:* And then the Court -- that ruling of the
5 Court is still in place.

6 *THE COURT:* What I said was that the Government could
7 either give the defense the DEA regulations, to which Ms. Irby
8 said -- with which Ms. Irby said she complied, or I wouldn't
9 consider her compliance with those regulations in determining
10 whether her methodology was reliable.

11 And let me share my reasoning with everyone so that
12 you know where I'm coming from. This has to do -- this hearing
13 has to do with reliability of methodology. Standards or
14 regulations are a shorthand for describing methodology. And if
15 you comply with those, you're essentially saying, I did all the
16 things that the standards and the regulations require.

17 Now, if the defense and the Court doesn't know what
18 those standards and regulations are, then compliance with them
19 is absolutely meaningless for purposes of determining the
20 reliability of the methodology. Instead, the reliability of
21 the methodology would hinge upon only the evidence that was
22 presented here in the courtroom by Ms. Irby as to what she did
23 and whether that was a reliable methodology.

24 The analogy is like this: If I were to say that I
25 considered all of the objectives and factors in 18 U.S.C.

1 Section 3553(a) in imposing sentence but you didn't know what
2 those objectives and factors were, my reference to that would
3 be meaningless.

4 So where we left this at the end of the morning
5 session was at the place of the DEA -- Government saying that
6 the DEA would not supply its regulations and standards. And
7 the way we left it was that if they were not going to supply
8 that, then I would not consider the compliance with those
9 regulations and standards as being evidence of reliability of
10 methodology.

11 When you all came back, the train was on a different
12 track.

13 *MR. BAKER:* Right. We were told that they were now
14 going to supply those.

15 *THE COURT:* Or some of those.

16 *MR. BAKER:* Yes. Yeah. We don't know exactly what.

17 *THE COURT:* And so then as I saw it, Mr. Edelman was
18 talking about discovery and the need for this information for
19 purposes of trial.

20 Today's hearing is 702 hearing, and I'm only looking
21 at the reliability of the methodology used by Ms. Irby in
22 testing what she tested, not looking at discovery. I'm not
23 looking at whether it's persuasive opinion. I'm not looking at
24 chain of custody. I'm not looking at what arguments you may
25 want to make at trial. I'm only determining the reliability of

1 the methodology used by Ms. Irby with regard to the opinions
2 that were produced from that methodology.

3 So I need to know whether you want to proceed with
4 this hearing with me not looking at compliance with the DEA
5 regs and standards, or whether -- and whether you need this
6 information for discovery purposes for trial, or whether you
7 don't want to proceed with this hearing because you need this
8 information in order to proceed, whatever regs and standards
9 the Government is interested in supplying.

10 *MR. BAKER:* I think our confusion, your Honor -- at
11 least my personal confusion, and I'll consult with everybody
12 before stating any position -- came from the fact that the
13 Government was now agreeing to offer us something and as a
14 result we were under the impression that the Court's earlier
15 comments about not considering that was no longer applicable.
16 But maybe I have misunderstood that.

17 *THE COURT:* I didn't say anything with regard to that.

18 *MR. BAKER:* I know that. And so we sort of added 2
19 plus 2 and came up with 5, which is why most of us aren't good
20 at chemistry, I suppose.

21 *THE COURT:* No, we went to law school because we
22 weren't.

23 *MR. BAKER:* Yeah, exactly. So maybe we should
24 consult. If you'll give us a couple of minutes for the defense
25 to consult, because I'm certainly not in any position to speak

1 for --

2 *THE COURT:* We'll take another recess; but I need to
3 know what your position is with regard to the limited scope of
4 this hearing.

5 *MR. BAKER:* We understand what that scope is, your
6 Honor. And we understand -- it's been our intention to seek
7 only those documents -- and whether the term "discovery" was
8 used or not -- was to seek only those documents that were
9 applicable to the scope of this hearing, not stuff generally
10 applicable to the expert opinion at trial.

11 *THE COURT:* And please keep in mind that we really
12 only for purposes of this afternoon's proceedings have about an
13 hour left. So we'll stand in brief recess.

14 (Recess at 2:34 p.m.)

15 (Reconvened at 2:40 p.m.)

16 *THE COURT:* Please be seated.

17 Mr. Baker? I think you're the last person to -- who
18 spoke on behalf of the defense counsel.

19 *MR. BAKER:* The group has met, your Honor. And based
20 on the Court -- our understanding of the Court's position, we
21 would like to proceed with the hearing today with the
22 understanding that the DEA material would not be considered by
23 the Court.

24 *THE COURT:* Okay. Then what's what we will do.

25 *MR. BOMA:* Your Honor, if the Government might be

1 heard briefly.

2 *THE COURT:* Sure.

3 *MR. BOMA:* Your Honor, it's the Government's position
4 until the Court made that ruling right before lunch that
5 without the production of the written methodologies the Court
6 would not consider references to those documents made by the
7 witness -- the Government thinks there is a middle ground.

8 Ms. Irby has testified that she is familiar with those
9 documents and has set forth the procedures that she followed in
10 conformity with those documents referenced. So the Government
11 would submit that she's knowledgeable as an expert in the area
12 of the DEA's procedures and their methodologies. She's been a
13 chemist there for eight years and has examined 2300 -- over
14 2300 controlled substance exhibits.

15 So we would conclude that she's authorized as part of
16 her expert testimony, if you will, to refer to documents that
17 she's familiar with. And in some cases she testified that she
18 has the different methodologies that she went through and the
19 confirming tests and the other tests -- she has them committed
20 to memory because she's done, for instance, 700-plus
21 methamphetamine exhibits.

22 So that would be our opening position.

23 The alternative position would be that the Government
24 does intend to rely upon the methodology employed by the DEA in
25 general and by Ms. Irby in particular in conducting the

1 analyses that she did on the controlled substance exhibits in
2 this case.

3 So in the alternative, we would seek a brief
4 continuance, have the opportunity to provide the documented
5 materials, and seek leave to file them with the Court under the
6 appropriate protective order. And if the Court were to agree
7 to disclosure, we would still seek the protective order
8 Mr. Baker had earlier referenced: no copying, no dissemination
9 of the documents, no disclosure beyond Counsel and identified
10 retained experts, and their return at the conclusion of the
11 F.R.E. 702 hearing.

12 So those would be the Government's positions, because
13 we think we have ample testimony from a knowledgeable expert
14 who works daily, if you will, with those DEA methodologies and
15 is intimately familiar with the tests that she conducted and
16 their conformity with DEA procedures, standard procedures,
17 methodologies, and the other requirements imposed by SWGDRUG
18 and the other entities cited.

19 So we're making an argument in the alternative, your
20 Honor.

21 *THE COURT:* Thank you.

22 We'll proceed with the hearing, and the Court will
23 consider the testimony of Ms. Irby as to what she did. The
24 Court will regard that testimony as being a description based
25 upon her experience and her testimony that this comports with

1 industry or discipline standards.

2 The Court will totally disregard that this testing was
3 done by the DEA. This will be just as if the testing was done
4 by some private organization or private lab and Ms. Irby
5 performed the testing in accordance with the methodology that
6 she described. In that way, the Court disregards any rules,
7 regulations, or standards that the DEA might have imposed and
8 will rely upon the expertise and description and testimony that
9 Ms. Irby has given as to the methodology she used.

10 Is there any further cross-examination that any of the
11 defense counsel wish to engage in?

12 *MR. EDELMAN:* None from Beltran, your Honor.

13 *MR. DRISCOLL:* None from Pelayo, your Honor.

14 *MR. GOLLA:* None from Mr. Meza Torres, your Honor.

15 *MR. BAKER:* None from Mr. Gomez Paz, your Honor.

16 *MR. BROWN:* None from Mr. Celaya.

17 *THE COURT:* Do you care to recall Ms. Irby for
18 redirect?

19 *MR. BOMA:* Yes, your Honor. If I might have just a
20 moment.

21 *THE COURT:* Ms. Irby please step up. You remain under
22 oath.

23 **REDIRECT EXAMINATION**

24 *BY MR. BOMA:*

25 *Q.* Ms. Irby, utilizing the confirmatory tests that you

1 testified to earlier -- and I believe there were four of
2 those --

3 A. Confirmatory. One, two -- there were three confirmatory
4 tests.

5 Q. All right. And there were two separation or other types of
6 tests along with the presumptive test?

7 A. If I could go through all of the tests, it would be easier.
8 Marquis is presumptive.

9 GC mass spec. is confirmatory. That does have that
10 separation technique.

11 IR --

12 MR. EDELMAN: Your Honor, this is going over testimony
13 I think that was already elicited by this witness; so I know
14 you indicated that the Rules of Evidence might not apply, but I
15 think it's a waste of time.

16 THE COURT: Response?

17 MR. BOMA: Your Honor, I'd just like her -- I have a
18 question relating to the confirmatory tests; and I believe what
19 the witness is trying to do is just ensure that she's talking
20 about confirmatory as opposed to other tests, presumptive
21 tests.

22 THE COURT: That's fine. I'll allow her to answer.

23 BY MR. BOMA:

24 Q. Could you start over with the Marquis?

25 A. Okay. Marquis is the first test, and that was presumptive.

1 The second test was GCMS, which is a confirmatory
2 test.

3 Then I did infrared spectroscopy, the ATR, which is a
4 confirmatory test.

5 Then I did GC, which is a presumptive test; however,
6 in this case, it was able to tell me which isomers I had.

7 The -- I did GCIRD, which is a confirmatory test.

8 And then I did HPLC, which is a presumptive test that
9 I utilized to get the purity.

10 Q. All right. And utilizing the three, then, confirmatory
11 tests -- is that correct?

12 A. Yes.

13 Q. I just want to make sure the record is correct that you
14 did -- Could you, in fact, determine the structure of the
15 controlled substance based on the data alone without the use of
16 controls or other means?

17 A. Yes. The science of that is sound of the spectra that you
18 get from those. When the sample is fragmented, those
19 fragments, you are able to put those back together and tell you
20 what your molecule is.

21 Q. All right. So even without the use of, well, blanks you
22 would have used, as you stated; but in terms of a control
23 standard or known, you wouldn't necessarily have to use those?

24 A. That's correct. The science is the same whether the
25 quality assurance is there or not. The science of the

1 technique is there.

2 Q. All right. So the use of the standard would be for quality
3 assurance purposes?

4 A. Yes.

5 Q. And is that basically a way for you to check your own work?
6 If you were doing a math problem, you'd check it at the end and
7 make sure you're correct?

8 A. Yes.

9 Q. Except you're doing it simultaneously, I take it?

10 A. Correct.

11 Q. All right. And to go back to the SWGDRUG, could you say
12 what that acronym stands for one more time, please.

13 A. The Scientific Working Group for the Analysis of Seized
14 Drugs.

15 Q. All right. And they have -- they have standards that they
16 promulgate?

17 A. They're an internationally recognized entity that gives
18 recommendations to the community that is analyzing seized
19 drugs.

20 Q. Is that open source? In other words, is that publicly
21 available information --

22 A. Yes.

23 Q. -- on SWGDRUG?

24 So if someone wanted to see what those were, they
25 could pull up a website somewhere and find those?

1 A. Yes.

2 Q. All right. In your testing that you did, first of all, how
3 many tests, confirming tests or other tests, does SWGDRUG
4 require?

5 A. SWGDRUG requires two, one confirmatory and one presumptive.

6 Q. In this case, you had three confirmatory?

7 A. Three confirmatory, yes.

8 Q. And one presumptive and the other two were the quantitation
9 and I believe the isomer determination? Is that accurate?

10 A. That's correct.

11 *MR. BOMA:* Your Honor, if I might have a moment.

12 *THE COURT:* Sure.

13 *MR. BOMA:* No further questions.

14 Thank you, ma'am.

15 We'd ask that Ms. Irby be allowed to step down and
16 remain in the courtroom at counsel table.

17 *THE COURT:* Thank you. You may step down.

18 Further witnesses?

19 *MR. BOMA:* Yes, your Honor.

20 *MS. MAGNELLI:* Your Honor, we call Scott Oulton.

21 *THE COURT:* Please step up and be sworn.

22 (**Scott Oulton** was sworn.)

23 *THE COURTROOM DEPUTY:* Please be seated.

24 Please state your name and spell your first and last
25 name for the record.

1 THE WITNESS: My name is Scott Oulton. My last name
2 is spelled O-U-L-T-O-N.

3 **DIRECT EXAMINATION**

4 BY MS. MAGNELLI:

5 Q. Sir, if I might, where are you currently employed?

6 A. I'm currently employed for the Department of Justice Drug
7 Enforcement Administration at the DEA headquarters in
8 Washington, D.C.

9 Q. What is your position there?

10 A. My current position is Associate Deputy Assistant
11 Administrator.

12 Q. Okay, sir. I'm going to back up a little bit so we can
13 give context to your testimony today.

14 Can you tell us a little bit about your education?

15 A. Yes. I have a bachelor of science degree in chemistry with
16 an emphasis in criminalistics from Northern Arizona University.

17 Q. And after college, did you go straight to work for DEA?

18 A. I did.

19 Q. Okay. And where did -- what did you start out doing?

20 A. I started out actually as a cooperative education student
21 with our college and DEA. And once I completed my coursework
22 and received my degree, I started as a forensic chemist with
23 the Drug Enforcement Administration in 1991.

24 Q. How many years were you working -- Well, can you tell us
25 what "on the bench" means?

Scott Oulton - Direct

1 A. Yes. Once I completed the in-house training program and
2 all the programs that teach me how to do that job, I then was
3 placed on the bench, analyzing controlled substances.

4 Q. What does being "on the bench" mean?

5 A. "On the bench" is competency-tested; I've been proficiency-
6 tested, I completed the -- I successfully completed the
7 training program in order to be able to analyze controlled
8 substances.

9 Q. And actually, is "on the bench" a reference to the long
10 table you do the analysis on? Is that what, quote/unquote, "on
11 the bench" means?

12 A. That is correct.

13 Q. So when you use that term, that's what you mean?

14 A. Yes.

15 Q. And did you find you had a specialty when you were on the
16 bench?

17 A. I did. I enjoyed using -- investigating clandestine
18 laboratories; so I tried to do a lot of those types of
19 investigations as a chemist particularly in methamphetamine.
20 So during that period of time, I participated in many
21 clandestine laboratories regarding methamphetamine, in which
22 case I've also authored several papers regarding those types of
23 analyses and how to identify methamphetamine, things like that.

24 Q. And, sir, have you, yourself, tested methamphetamine?

25 A. Yes, I have.

Scott Oulton - Direct

1 Q. Do you have any idea how many times?

2 A. I have analyzed methamphetamine approximately 1,000 times.

3 Q. And that means identifying a substance to contain
4 methamphetamine?

5 A. That is correct.

6 Q. And that would be the primary substance that came out as a
7 result, as opposed to secondary?

8 A. That's correct.

9 Q. Okay. Now, you've heard the Court's ruling today; correct?

10 A. Yes, I have.

11 Q. Now -- so I'm not going to get into DEA protocols; however
12 I'm going to get into our training a little bit because I think
13 that's informative.

14 Are you familiar with the training criteria at DEA?

15 A. Yes, I am.

16 Q. Can you tell us about the hiring and the training criteria,
17 please.

18 A. Sure. The hiring process begins with an advertisement, of
19 course; and we bring in the best-qualified list. We examine
20 them and we look for specifics. So they have to have a
21 bachelor of science degree, for example; and they have to have
22 certain attributes. And once we go through that process, we
23 would hire them.

24 We place them into an internal training program,
25 regardless if they've had experience outside or not. We put

Scott Oulton - Direct

1 them through a training program which is very intensive. It
2 can take upwards of six to nine months in some cases, depending
3 upon what level that they come in on.

4 And once they've completed that proficiency training
5 or that training program, they are competency tested, they're
6 proficiency tested, they're certified and, in essence, by the
7 laboratory to conduct analysis on controlled substances.

8 Q. Just to clarify, when you say bachelor of science, what you
9 mean is a degree from a four-year university or college?

10 A. Yes, it would be a baccalaureate, a bachelor's degree --

11 Q. Whether it's science or art?

12 *THE REPORTER:* Excuse me. You're both speaking at the
13 same time.

14 *MS. MAGNELLI:* Apologies.

15 *THE WITNESS:* Yes, that would be a bachelor's degree
16 in science or arts.

17 *MR. EDELMAN:* Judge, I'm going to object at this time
18 as to the relevancy of training and education. I think I said
19 on the basis of relevancy -- on the basis relevancy. And I
20 think Mr. Boma was given an opportunity to object as to
21 relevancy to this proceeding. And also because it may go to
22 their procedures and protocols about how they hire somebody,
23 which you've indicated you're not going to consider.

24 *THE COURT:* Thank you.

25 Response?

Scott Oulton - Direct

1 *MS. MAGNELLI:* Your Honor, we're not talking about the
2 policies and procedures of the methodology Ms. Irby employed;
3 however, any chemist training, I would submit, is important to
4 this hearing. And Mr. Oulton can tell you more about the
5 training criteria at DEA. And even if you take out the acronym
6 "DEA," this is the training program that Ms. Irby went through.
7 For that reason --

8 *THE COURT:* Ms. Irby has testified to what her
9 training and expertise is. How does this witness' testimony
10 add to that?

11 *MS. MAGNELLI:* Because he can expand on that program.

12 *THE COURT:* Why is that relevant? She's testified as
13 to what her expertise is.

14 *MS. MAGNELLI:* I can move on, your Honor.

15 *THE COURT:* All right.

16 *BY MS. MAGNELLI:*

17 *Q.* Sir, do you belong to any professional associations?

18 *A.* I do.

19 *Q.* Such as?

20 *A.* I belong to several. I belong to the American Society of
21 Crime Laboratory Directors, ASCLD. I belong as a delegate
22 assembly member to the American Society of Crime Laboratory
23 Directors Laboratory Accreditation Board, ASCLD/LAB. I belong
24 to ASTM, which stands for the American Society of Testing and
25 Materials. I belong to SWGDRUG, which stands for the

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1 Scientific Working Group of the Analysis of Seized Drugs -- for
2 the Analysis of Seized Drugs. I also belong to the ENFSI Drugs
3 Working Group, which stands for the European Network Forensic
4 Science Institutes Drugs Working Group.

5 *MR. DRISCOLL:* Objection, your Honor. Relevance of
6 the witness. Unless this witness examined the drugs, I think
7 he's irrelevant to these proceedings regarding 702; so I would
8 object to the testimony of the witness in its entirety unless,
9 of course, he's examined the substance in Exhibit 101 or 102.

10 *THE COURT:* Response?

11 *MS. MAGNELLI:* Your Honor, I do believe Mr. Oulton's
12 testimony is relevant. The Government's standard is, granted,
13 preponderance of the evidence; but if the Government is to meet
14 that standard or is to be sure to meet that standard, I think
15 the Court is entitled to all the information it can have in
16 terms of -- for example, there was cross-examination about the
17 appeals process for ASCLD/LAB, which Ms. Irby didn't have
18 specific knowledge of, although she knew she turned some
19 documents over. Mr. Oulton can fill in those gaps.

20 *THE COURT:* Why is that relevant?

21 *MS. MAGNELLI:* Your Honor, it was a sore subject of
22 cross-examination in terms of the accreditation process. And I
23 understand that the Court has sort of thrown out DEA protocols.

24 Mr. Oulton can also talk about SWGDRUG
25 recommendations. He can talk to all manner of the science and

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1 the methodology, having been a forensic chemist himself.

2 *THE COURT:* Why don't you make a proffer as to what
3 this witness would testify to relative to the methodology that
4 was used by Ms. Irby, whether it was reliable and whether it
5 was reliably applied.

6 *MS. MAGNELLI:* Your Honor, if I may have a moment --

7 *THE COURT:* Uh-huh.

8 *MS. MAGNELLI:* Mr. Oulton is not only the chair of
9 SWGDRUG, he also is a forensic chemist, has been for years. He
10 can tell this court, he can tell -- he can take Attachment 2,
11 which is all the lab work of Ms. Irby, and he can reconstruct
12 those tests, he can replicate them, he can tell the Court that
13 the science, the actual disrupting of a molecule's energy state
14 causing it to burst and measure the fragmentation is a science
15 that has been around for a hundred years. And the instrumental
16 technique that was used, say the GCMS, or what have you, that
17 is a technology. It involves. The science, the methodology at
18 question is proven; it is reliable. These particular -- and
19 that's the overall scope. The method is reliable. Science --
20 It is the science.

21 He would be able to say, looking at Ms. Irby's
22 results, I know exactly what she did, I can read these results,
23 and a competent examiner should be able to replicate them. And
24 he can tell the Court that the methods she applied from a
25 scientific point of view are reliable. He can tell you that

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1 there are facts and data upon which to form an opinion, and he
2 can talk about the science as well.

3 *THE COURT:* All right. Then why don't you limit your
4 inquiry to his qualifications to do that and those opinions.

5 *BY MS. MAGNELLI:*

6 Q. Sir, do you have before you Ms. Irby's declaration?

7 *MS. MAGNELLI:* I apologize to the Court. I don't know
8 what document number that is.

9 *MR. BOMA:* Your Honor, if I might assist, 162-1 is the
10 declaration itself; and it has three attachments.

11 *THE WITNESS:* Yes, I do.

12 *MR. BOMA:* And they've already been described on the
13 record.

14 *THE COURT:* And there are copies of that up on the
15 witness stand; right?

16 *MS. MAGNELLI:* Yes, your Honor.

17 *BY MS. MAGNELLI:*

18 Q. Mr. Oulton, do you have a copy of Document 162-1?

19 A. Yes, I do.

20 Q. And can you turn to Attachment 2, which I believe is --
21 starts -- it actually says Attachment 2. Page 15, sir.

22 A. Yes.

23 Q. Okay. And have you seen this packet? When I mean
24 "packet," I'm talking just about Attachment 2. Okay. Have you
25 seen this packet?

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1 A. Yes, I have.

2 Q. Can you describe what that is?

3 A. This packet contains the laboratory report issued by
4 Ms. Shana Irby with accompanying DEA 7, which is a form that
5 was submitted, in addition to handwritten notes, observations,
6 analytical data, and so on.

7 Q. Okay. And let's look at the first few pages. Is that sort
8 of a narrative, a step-by-step, if you will, of what happened?

9 A. Yes. The entire thing actually is a narrative that shows
10 all of the tests that were performed, what was done, and where
11 it went and what the conclusions were.

12 Q. All right. Now, sir, you've testified that you've been a
13 forensic chemist since 1991; is that correct?

14 A. Correct.

15 Q. And you have seen these types of lab reports and data
16 before?

17 A. Yes, I have.

18 Q. And have you seen those both because you've generated them
19 and you've reviewed them?

20 A. I have generated them, I've reviewed them, and approved
21 them, yes.

22 Q. And approved them. Okay.

23 Now, sir, what can you tell me from that first page of
24 that attachment? What do you interpret from that page?

25 A. The first page being page 16?

1 Just for clarification, page 16?

2 Q. I believe so.

3 A. Okay. This is the laboratory report in which Ms. Irby
4 stated her conclusions of what she's identified and the
5 percentages, the weights corresponding to the specific
6 exhibits.

7 Q. If you would turn to page 17.

8 Actually now that I have a copy of the document, page
9 19, please.

10 A. Yes. Page 19 is Ms. Irby's worksheet, in which she
11 documented and recorded all of her tests that she performed or
12 the description of the evidence as she received it, a summary
13 of her results as she concluded them, and what she did with the
14 evidence when she was done. And she signed it and dated it.
15 And it also shows that it was technically reviewed by one of
16 the supervisors.

17 Q. I see. And gleaning from pages 19 and 20 -- or reading
18 them -- actually 19, 20, and -- 21, can you discern what tests
19 she ran?

20 A. Yes. It's extremely detailed to show all of the tests that
21 were performed, how she approached her analysis, what she did
22 to make her sample, what she did to test each one of her
23 samples, and her conclusions.

24 Q. And is this series of tests considered an analytical
25 scheme?

1 A. Yes.

2 Q. When you look through these pages, are you able to
3 interpret that data?

4 A. Yes, I am.

5 Q. When you look through this attachment, are you able to
6 discern the methods, the scientific methods that Ms. Irby
7 applied?

8 A. Yes, I am.

9 Q. Can you explain some of those?

10 A. Yes. She's employed several scientific methods. She's
11 utilized, in fact, mass spectrometry. She's used or utilized
12 infrared spectrophotometry, gas chromatography, HPLC or liquid
13 chromatography. She's employed -- included quite a few, a
14 number of tests.

15 Q. And are you familiar with all these tests?

16 A. Yes, I am.

17 Q. Have you used all these tests?

18 A. Yes I have.

19 Q. So you are familiar with the data that comes out of these
20 tests; is that right?

21 A. Yes, I am.

22 Q. What is the science behind these tests?

23 A. The science, as we've discussed before, has been around for
24 a long time, a hundred years in some cases. Infrared
25 spectrophotometry and mass spectroscopy: These techniques are

1 very reliable in the world of science. In fact, as a chemist,
2 this is how we -- Our core structure is based off of these
3 types of techniques.

4 And this expands well beyond drug chemistry into other
5 fields, into pharmaceuticals and pesticides and testing foods,
6 in some instances. So this science, the science that's
7 employed, has been determined reliable time and time and time
8 again. It's actually standed [sic] the test of time.

9 Q. Tell me about the science behind the GCMS.

10 A. The GCMS: The way that the science works is that
11 essentially the sample is introduced into the mass
12 spectrometer, is what we're calling it. And as you described
13 earlier, it sort of bursts the molecule into pieces; and those
14 pieces are measured and detected at some capacity.

15 And the unique part about mass spectrometry is that it
16 actually reassembles -- it breaks apart the same way every
17 time. So it gives us what we would like to call, for example,
18 a fingerprint. So that spectra that is produced is unique to
19 methamphetamine. It is specific. It shows us that it only
20 breaks apart the same way, as in most of these techniques, such
21 as infrared -- is exactly same way, where the science hasn't
22 changed. An infrared that was done 20 years ago of
23 methamphetamine would be the same infrared spectrum of
24 methamphetamine today.

25 Q. And what is the science behind the infrared?

1 A. Infrared, for example, would be something like, as an
2 analogy, shining a light through the sample and measuring how
3 much that is absorbing and letting the light through. And
4 again, this science is actually -- tells us core structure
5 information. It tells us what the molecule is in some -- it
6 tells us that it's got an amine group, it's a carbon attached a
7 hydrogen. It tells us the core structure of the molecule.

8 In fact, it is so unique that there is no other
9 structure that has the same structure as methamphetamine or the
10 spectrum of methamphetamine, for instance.

11 Q. Okay. And so this science: Before we had all these
12 machines, what were scientists doing to measure these
13 fragments?

14 MR. EDELMAN: Objection, your Honor. I don't think
15 that's -- relevancy as to what the science a hundred years ago
16 did.

17 THE COURT: Well, actually the question is vague and
18 ambiguous. "Before we had all these machines," machines that
19 were developed at different times, "what were scientists doing
20 to measure these fragments?"

21 And we're talking about fragments of what?

22 MS. MAGNELLI: I can be more specific.

23 BY MS. MAGNELLI:

24 Q. Mr. Oulton, these instruments you've just referenced: Was
25 science able to detect and identify drugs before these

1 instruments existed?

2 A. Yes.

3 Q. And is that by the application of the science?

4 A. Yes. There are various sciences that were used to identify
5 drugs before this stuff existed.

6 Now, for example, one of the discussions was even --
7 was the crystal test. It's an old science. It's been around
8 for quite some time. And it is, in some capacity, with a
9 trained forensic chemist -- would be able to use that test to
10 indicate the presence of methamphetamine, for example.

11 Q. But the technology evolves; is that right?

12 A. Yes. The technology has evolved. Even in my experience
13 20, 21 years ago as a forensic chemist, the mass spectrometer,
14 for example, took up the entire room. The resolution, the
15 preciseness of the equipment, wasn't as good as it is today;
16 but it still resulted in a mass spectrum, it still resulted in
17 the same mass spectrum. But now those instruments as we find
18 them in laboratories today, are actually -- are bench-top.
19 They are small enough -- size of a computer, in some instances.

20 Q. Sir, looking Attachment 2, you've already testified you can
21 interpret that data. Would you consider that a standalone
22 packet?

23 A. Absolutely.

24 Q. Why?

25 A. This -- this packet contains all detailed information on

1 how the analyst approached their analysis, the description of
2 what it looked like, how they tested each individual unit,
3 confirmed the presence of each individual unit, formed a
4 composite, and then continued to test it and test it and test
5 it, all of which showed the presence of methamphetamine.

6 Q. And, sir, based on your knowledge, training, and
7 experience, could you replicate what Ms. Irby did in this case?

8 A. Absolutely. I can reconstruct all the tests that she
9 performed. I can look through the data and examine the data
10 for accuracy, compare it to literature values that show what a
11 mass spectrum would look like. I can compare the infrared
12 spectrum to literature, to show what it looks like. And I can
13 do all of that right here to show that without a doubt, this
14 substance contained methamphetamine.

15 Q. When looking at that data, can you make any interpretation
16 as to whether those -- the science was reliably applied to this
17 substance?

18 A. Yes.

19 Q. And how can you do that?

20 A. Primarily from my experience with SWGDRUG. As the chair of
21 the Scientific Working Group for the Analysis of Seized Drugs,
22 we recommend standards to the forensic science community on how
23 to analyze drugs. We have recommended, for example, in SWGDRUG
24 lingo, language that two tests is sufficient to identify a
25 drug.

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1 In this case, just looking at this particular work,
2 there are six tests. All six tests confirm the presence of
3 methamphetamine; so as far as SWGDRUG is concerned, it was --
4 this test was met at the second step, at the second test. In
5 fact, this is three times what is required to identify a drug
6 according to SWGDRUG, according to international
7 recommendations.

8 Q. Now, you just testified that SWGDRUG recommends two tests;
9 is that right?

10 A. That's correct.

11 Q. In your -- in your professional associations, have you had
12 occasion to look at lab results from other labs?

13 A. Yes, I have.

14 Q. And can you tell this court whether or not any other lab
15 ever stops at two tests, the recommended SWGDRUG requirement?

16 MR. EDELMAN: Objection. Not relevant.

17 THE COURT: Overruled.

18 BY MS. MAGNELLI:

19 Q. Please answer the question.

20 A. Through my experience with ASCLD/LAB, I serve as a board
21 member on their board. And part of our duties is to assess
22 these laboratories. And part of my duties is reviewing work
23 from many, many different laboratories so we can make
24 accreditation decisions.

25 And in that, I have seen numerous times, not only that

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1 with my experience with SWGDRUG and just in forensic community
2 itself -- I attend meetings, Academy of Forensic Science
3 meetings, and things like that. And with all that, it is
4 predominantly through my experience and my discussions and
5 everything else -- predominantly most, especially state
6 laboratories, would stop at that second test.

7 Q. And that would meet SWGDRUG recommendations?

8 A. Yes, SWGDRUG sets minimum recommendations, and that is two.
9 And they would stop.

10 Q. And the method, the science, you've testified is
11 well-tested; is that right?

12 A. Correct.

13 Q. Peer-reviewed; correct?

14 A. That's correct.

15 Q. The instrumental techniques themselves: Are they well-
16 accepted in the scientific community?

17 A. Yes, they are.

18 Q. In fact, is GCMS known as anything in particular?

19 A. I'm sorry. I didn't hear you.

20 Q. GCMS: How is that viewed by the scientific community?

21 A. It is predominantly used as the most commonly used
22 instrument in forensic drug chemistry.

23 Q. And that's based on your knowledge, training, and
24 experience and all of that combined; correct?

25 A. That's correct.

1 MS. MAGNELLI: Court's indulgence.

2 BY MS. MAGNELLI:

3 Q. And I don't want to belabor the point. I know we're
4 running short on time. IRATR, the GCFID, all of the other
5 tests that have been testified to extensively today -- how are
6 those recognized in the scientific community?

7 A. All of those tests are recognized as qualitative tests that
8 are highly discriminatory. And what SWGDRUG would say is they
9 would fall under what we call Category A, which means it's the
10 highest discriminating power. And those are all confirmatory
11 tests showing conclusively that the product contained a certain
12 material.

13 Q. And we're not talking about -- When you were talking just
14 then, you weren't including the Marquis color test; is that
15 correct?

16 A. That's correct.

17 Q. And the Marquis color test: What's its purpose?

18 A. The Marquis color test would be -- it is a presumptive
19 test. It does give us an indication of the class of compounds
20 and gives the analyst, a trained analyst, direction in which
21 way to go next. Maybe if it's it a phenethylamine, if it's a
22 barbiturate, if it's a heroin, or something like that. We
23 would be able to get an idea up front so that they could work
24 within the confines of the -- of maybe their procedures or
25 certainly the international recommendations on how to proceed

1 with their analytical scheme, how to get to the answer at the
2 end.

3 Q. And are you familiar with the -- a method parameter?

4 A. Yes.

5 Q. And the United Nations on -- I always forget what that
6 stands for?

7 A. United Nations Office of Drugs and Crime, I believe.

8 Q. Thank you. I believe that's correct. United Nations
9 Office on Drugs and Crime: They publish papers; correct?

10 A. They do.

11 Q. And they published recommended parameters; is that right?

12 *MR. DRISCOLL:* Objection. Relevance. None of the
13 United Nations standards were referred to by the initial
14 witness, nor are they relevant to these proceedings.

15 *THE COURT:* Response?

16 *MS. MAGNELLI:* Your Honor, if there are international
17 or other standards out there, I think that is relevant.

18 *THE COURT:* Was this something that the witness
19 originally based her opinion on, compliance with these
20 particular regs or standards?

21 *MS. MAGNELLI:* Your Honor, this is -- this is an area
22 the defense expert brought up in her criticisms of Ms. Irby's
23 methods; so it has been brought up in that context before. And
24 the point of the testimony is to show that the method
25 parameters, which have been accepted, are acceptable under

1 these United Nations documents that have been referenced by the
2 defense expert.

3 *THE COURT:* I'll allow the witness to answer.

4 *BY MS. MAGNELLI:*

5 Q. Sir, are you familiar with their publications?

6 A. Yes, I am.

7 Q. Okay. And have you had occasion to look at their method
8 parameters for various instruments?

9 A. Yes, I have.

10 Q. And you know the method parameters that Ms. Irby used in
11 this case; is that correct?

12 A. That's correct.

13 Q. In fact, they're right in that packet, aren't they?

14 A. It's all contained within this packet.

15 Q. And how do Ms. Irby's parameters compare to the United
16 Nations documents cited by the defense in this case?

17 A. In my opinion, it certainly is met, everything that I've
18 read in that document.

19 Q. So the actual method parameters, the ranges of what you set
20 an instrument at or how you measure the liquid -- is that
21 correct?

22 A. That's correct. You know, they had set out certain
23 parameters. Let's say, for example, anywhere from 200 degrees
24 to 280 degrees. And the method that she employed was 260, for
25 example. So, yes, I have actually taken a look at that, and

1 she has met all of those for that particular one alone, yes.

2 Q. And in your opinion, does that also go to the reliability
3 of her application of those instrumental techniques in this
4 case?

5 A. Absolutely, yes.

6 MS. MAGNELLI: Court's indulgence.

7 BY MS. MAGNELLI:

8 Q. Actually, sir, I think you've already testified about this:
9 You said testified that you could pull reference standards from
10 literature in the public realm and use them with Ms. Irby's
11 data that she's presented there?

12 A. That's correct.

13 Q. In fact, they're in science journals?

14 A. They're published, as I think Ms. Irby testified to, in
15 thousands of article on drugs and what the infrared spectrum
16 looks like and mass spectrometry. And like I said myself that
17 I've even published five articles about particularly
18 clandestine laboratory manufacture of methamphetamine.

19 Q. And everything that you've seen in that Attachment 2:
20 Based on those standards, can you tell whether or not Ms. Irby
21 ran her tests, applied the methods reliably?

22 A. Yes, I can. And I would say that she did apply the
23 methodology reliably and formed the correct conclusion.

24 MS. MAGNELLI: Nothing further at this time, your
25 Honor.

1 *THE COURT:* Thank you.

2 We'll begin cross-examination, but we'll have to
3 recess at 3:30; so at that point, we'll reset the remainder of
4 this hearing. I'll ask you to all have your calendars
5 available so that we can continue it.

6 *MR. EDELMAN:* I'm sorry. Will I be able to cross?

7 *THE COURT:* Right now.

8 *MR. EDELMAN:* Oh, this very moment.

9 *THE COURT:* No, that's what I just said.

10 *MR. EDELMAN:* I'm sorry. Thank you. I was confused.

11 **CROSS-EXAMINATION**

12 *BY MR. EDELMAN:*

13 *Q.* Mr. Oulton, do you know a William Moriwaki?

14 *A.* Yes, I do.

15 *Q.* He is the supervisory chemist for the DEA Western
16 Laboratory in San Francisco; is that correct?

17 *A.* He is one of the supervisory chemists.

18 *Q.* Okay. And are you familiar with him signing a document, a
19 Document 91-2, filed on March 11, 2011, in this case?

20 *A.* Is that up here?

21 *Q.* Well, I just want to know if you're aware of it?

22 *A.* You have to refer -- what was the content?

23 *Q.* Did you review the documents that have been filed in this
24 case before you came to testify today?

25 *A.* I did have a chance to review them, yes.

1 Q. Okay. And does -- Tell me the qualifications or if you
2 regard Mr. Moriwaki's opinion and knowledge of the way the
3 Western Regional Laboratory operates --

4 MR. BOMA: Objection. Relevance.

5 THE COURT: Response?

6 MR. EDELMAN: If the Court will give me some leeway, I
7 will tie up the relevance.

8 THE COURT: I'd like a proffer.

9 MR. EDELMAN: Mr. Moriwaki signed a document on 3-11,
10 2011, filed in this case that states the other documents
11 listed -- this is on page 9 of Exhibit 4, your Honor, in my
12 exhibits. He states in the middle of his paragraph -- last
13 paragraph on that page, or second-to-last paragraph, "The other
14 documents listed by Ms. Arvizu --" and this is a response to
15 Ms. Arvizu's comments that I think Mr. Oulton testified to
16 "-- are international laboratory accreditation --"

17 MR. BOMA: Your Honor, I'm going to object because
18 this is obviously referring to the previous hearing regarding
19 Forensic Chemist Chan. And Mr. Oulton didn't refer to that,
20 and I just heard him testify.

21 MR. EDELMAN: Can I finish, your Honor?

22 THE COURT: No. Mr. Edelman, I want to know what your
23 proffer is, not to read the document to me. But why is this
24 relevant.

25 MR. EDELMAN: Because Mr. Moriwaki says while there

1 are Scientific Working -- the SWGDRUG standards exist, this
2 laboratory, the DEA Western Laboratory, follows ASCLD/LAB
3 ISO/IEC 17025 requirements. So all the testimony about SWGDRUG
4 is not relevant because the lab doesn't use them or apply them
5 or rely upon them.

6 *THE COURT:* All right. I'm going to sustain the
7 objection as to relevance, because again you're focused on a
8 particular laboratory and a particular -- and DEA. And we're
9 not looking at that right now. We're looking at the
10 methodology that Ms. Irby used, so please move on.

11 *MR. EDELMAN:* Thank you.

12 *BY MR. EDELMAN:*

13 Q. Have you reviewed Ms. Irby's personal methodology and
14 procedures manual. Not the DEA's; her own?

15 A. I don't understand. Does she have a personal -- what do
16 you mean?

17 Q. That's what I'm asking you. Have you reviewed her personal
18 methodologies and procedures manual?

19 A. I have reviewed --

20 Q. Yes or no, sir.

21 *MS. MAGNELLI:* Objection, your Honor. Relevance.
22 She's never testified she had a personal methodology.

23 *THE COURT:* It assumes facts not in evidence.

24 You may proceed, but please reframe your question.

25 *MR. EDELMAN:* Thank you.

1 BY MR. EDELMAN:

2 Q. Are you aware if Ms. Irby has a personal procedures and
3 methodology manual?

4 A. Am I aware?

5 Q. Yes.

6 A. No.

7 Q. Does she have one?

8 A. I'm not aware if she has one.

9 Q. Okay. And do the SWGDRUG and ASCLD/LAB requirements
10 require the technician, the laboratory chemist, to use a
11 procedures and methodology manual?

12 A. Could you rephrase the question?

13 Q. Do SWGDRUG or ASCLD/LAB require that the chemist use a
14 procedures and methodology manual?

15 A. Under the -- yeah, SWGDRUG would have recommendations --

16 Q. Yes. The answer is yes?

17 A. I'd have to clarify.

18 MS. MAGNELLI: If he would let the witness answer the
19 question.

20 THE COURT: Thank you.

21 Mr. Edelman, would you let the witness answer the
22 question.

23 MR. EDELMAN: Certainly, your Honor. Thank you.

24 THE WITNESS: SWGDRUG recommendations would have
25 criteria that says that you should have policies and

1 procedures, of course, to follow. The laboratory needs to have
2 policies an procedures.

3 ASCLD/LAB would have standards that they would
4 accredit laboratories to, and they would expect to see policies
5 and procedures.

6 MR. EDELMAN: I have nothing else, your Honor. Thank
7 you.

8 THE COURT: Thank you.

9 Is there any other defense attorney who wants to
10 cross-examine this witness?

11 MR. BROWN: Yes, your Honor.

12 THE COURT: Okay.

13 **CROSS-EXAMINATION**

14 BY MR. BROWN:

15 Q. Good afternoon, Mr. Oulton.

16 A. Good afternoon.

17 Q. Have you ever participated in an ASCLD or a SWGDRUG
18 inspection of a DEA lab on behalf of either ASCLD or SWGDRUG?

19 A. No, I have not.

20 Q. And that would be somewhat inappropriate for you to do in
21 the capacity -- since you're currently employed by the DEA?

22 A. In my capacity as an ASCLD/LAB board member, I have to
23 recuse myself from any decisions, accreditation decisions
24 regarding Department of Justice laboratories, the DEA
25 laboratories, all that. I have to recuse myself from any of

1 those decisions.

2 However, in my position of Associate Deputy Assistant
3 Administrator, I do utilize SWGDRUG recommendations to
4 establish policies for our forensic chemists.

5 Q. So to use a legal phrase, to some degree -- and if you're
6 unfamiliar with the phrase, I'll be more specific -- it would
7 be somewhat of a conflict of interest for you on behalf of
8 SWGDRUG to be inspecting the DEA lab?

9 A. SWGDRUG does not have any enforcement end of it. It does
10 not do any assessments. That body is a scientific working
11 group that recommends standards on how to analyze seized drugs.
12 So we bring in 20 scientists from across the world and we write
13 standards and come up with recommendations. And we go out and
14 post it on our website for the forensic science community.

15 Q. But as far as ASCLD, you would agree that would present a
16 conflict of interest?

17 A. Yeah. As an ASCLD/LAB board member, I would not be allowed
18 to participate in any accreditation decisions regarding a DOJ
19 or DEA laboratory.

20 Q. Are you generally familiar with the way in which an
21 ASCLD/LAB inspection occurs?

22 A. Yes, I am.

23 Q. And you were present when we discussed kind of the
24 recertification that occurred -- I think it was February of
25 2010, of the Western Regional Lab?

1 A. Yes, I was.

2 Q. You heard the line of questioning that I asked regarding
3 the review of particular lab testing and results that would
4 occur, when Ms. Irby testified?

5 A. Yes, I am.

6 Q. Would you degree that it would be a misstatement for
7 Ms. Irby to have made regarding the fact that ASCLD would
8 likely review basically each and every lab report that's
9 generated within the regular course of business at the DEA lab?

10 A. I don't recall what she testified to; but ASCLD/LAB would
11 look at all of the policies and procedures in that laboratory
12 when they do an accreditation, and they would select on average
13 of about five pieces of evidence to be reviewed from a
14 technical assessor to determine if the testing was done in
15 accordance with the procedures.

16 Q. So the five particular tests would be over the duration
17 that either that employee had worked at the lab or since the
18 last certification occurred?

19 A. They do -- within the last certification. Exactly.

20 Q. So we would expect on average that a DEA chemist would do
21 hundreds of examinations between certifications and only really
22 a very small few would be reviewed by ASCLD?

23 A. That's a key auditing function. There is not enough time
24 to review all the records, so they would take a snapshot, and
25 they get indications on if there is any particular issues.

1 Q. You've never personally worked with Ms. Irby?

2 A. I have not. She works in the Western Laboratory. I've
3 never worked there.

4 MR. BROWN: Thank you. I have no further questions.

5 THE COURT: Thank you.

6 MR. DRISCOLL: May I, your Honor?

7 THE COURT: Yeah. We've just got a couple of minutes.

8 MR. DRISCOLL: It will only take a couple.

9 **CROSS-EXAMINATION**

10 BY MR. DRISCOLL:

11 Q. Mr. Oulton, good afternoon.

12 Sir, you referred to and examined pages 19, 20, and 21
13 of the exhibit that's before you. And I think you called a
14 freestanding document, self-supporting document?

15 A. This entire packet is a self-supporting document.

16 Q. Self-supporting document. And referring specifically to
17 19, 20, and 21, there is no description of the standard to
18 which the examination results were compared other than the
19 reference to a standard number. Is that a fact?

20 A. Are you talking about the reference material or
21 standards --

22 Q. Yes. The standards with which the unknown was compared.

23 A. For example, on page 20, she does refer to, down there in
24 the standard, methamphetamine HCL; and she also puts in that it
25 was from a certain lot number, for example, for the

1 traceability standpoint.

2 Q. Right. But there is no way of you knowing the source of
3 the standard or to -- or its origin other than the self-serving
4 statement on the report itself; is that correct?

5 A. The laboratory maintains those records in house.

6 Q. I'm talking about the report itself.

7 A. Would I be able to -- I'm sorry?

8 Q. There is no way for you to examine the standard other than
9 the self -- the statement on the report itself; right?

10 A. Other than the report itself; but I can also look at the
11 data that came from that and compare it to a known literature
12 value and see that it produced the same result.

13 Q. But those aren't contained in those three pages in the
14 self-sustaining report?

15 A. Which is not contained?

16 Q. The standard. The information regarding the standard. You
17 have to go someplace else to find that?

18 A. Yes. She records that she used a methamphetamine
19 hydrochloride standard. And she also included that it was a
20 verified traceable number; correct.

21 Q. However, had there been a microcrystalline test -- in other
22 words, an eyeball examination by the forensic chemist -- of the
23 crystals in the unknown and a comparison to a known crystal and
24 that -- had that been included in the report, you could then
25 know that the forensic chemist referred to a -- to --

1 identified it with her eye as a chemist; am I correct?

2 A. No. I don't think so.

3 She didn't do that particular test. Had she done it,
4 it would be another test showing that it contained
5 methamphetamine. So it would be a seventh test.

6 Q. And it would be a confirmation that the chemist actually
7 identified it with her eye as a forensic chemist and identified
8 the crystals to be methamphetamine crystals?

9 A. She's testified she used her eyes to look at the data that
10 came out, the color testing from the Marquis reagents, so she
11 had to use her eyes to do that.

12 Q. Right. She had to use her eyes to read the product of a
13 machine.

14 A. Of all the tests that she performed, yes.

15 Q. Right. She looked at the results from a machine. Is that
16 correct?

17 A. She looked at the results of instruments, of chemical
18 testing. The results of all these different tests, six of
19 them, to show again in aggregate that all of these contained
20 methamphetamine.

21 Q. And all of those tests were produced by machines. All of
22 those results were produced by machines, and she recorded them?

23 A. No, the Marquis test was a presumptive test.

24 Q. The presumptive test. But that's not a specific test.
25 That simply excludes other substances. Am I correct?

1 A. Not necessarily. The microcrystalline test you're
2 referring to is also considered in the international community
3 today not a confirmatory test, so --

4 Q. Didn't ask you --

5 A. I'm explaining my answer.

6 Q. Go ahead. I'm sorry.

7 A. The microcrystalline is considered a Category B. It is
8 corroborating information, but it is not no longer considered a
9 qualitative Category A technique.

10 Q. But it's firsthand examination by the chemist of the
11 substance, rather than the chemist reading a result produced by
12 a machine and recording it in the notes?

13 A. Based on Ms. Irby's notes, all of this was firsthand. She
14 said she took it and she added it to the Marquis reagent and
15 got a result.

16 Q. She got a result from a machine and she recorded it.

17 A. That's not correct. The Marquis is not a machine. She
18 used the methamphetamine standard, she -- she documents the
19 fact that she did and compared it to a known result, which was
20 the methamphetamine, and got a color test.

21 Q. Okay. The Marquis --

22 *THE COURT:* Ms. Driscoll, I regret we're going to have
23 to conclude this.

24 *MR. DRISCOLL:* Thank you, your Honor.

25 *THE COURT:* Would you like to continue this when we

1 reconvene?

2 *MR. DRISCOLL:* If I may, please, your Honor.

3 *THE COURT:* All right.

4 *MR. EDELMAN:* Excuse me, your Honor. If we may
5 inquire of the Government if they've rested. I have a motion
6 that may be dispositive.

7 *THE COURT:* They have not rested. This witness hasn't
8 been completely cross-examined. They have an opportunity for
9 redirect examination. And so we will have to continue this
10 hearing to another date to complete the Government's
11 presentation.

12 Here are the dates that are available: July 29 at
13 9:00 a.m., or August 18 at 9:00 a.m.

14 *MR. DRISCOLL:* Your Honor, I'm unavailable on July 29.

15 *THE COURT:* Is that an unavailability that could be
16 modified?

17 *MR. DRISCOLL:* Your Honor, I'm -- it could be
18 modified. I'm scheduled to be in the national forest on a
19 five- day pack trip; however, because of the H1 virus that's
20 restricting equine activities, you know, it could be canceled;
21 and so I need to be candid in that regard. There is an
22 epidemic that's going around the country in the equine
23 community that could cancel the whole thing. But barring that,
24 it's 100-man committed and it's been planned for a year.

25 *THE COURT:* Okay. I understand. Thank you.

1 MR. GOLLA: Your Honor, Matthew Golla on behalf of
2 Mr. Meza Torres. I'm scheduled to be in a two-week trial with
3 Judge Arguello during the August 8 --

4 THE COURT: 18th.

5 MR. GOLLA: I'll be in trial.

6 THE COURT: Okay. Do you have cocounsel?

7 MR. GOLLA: I do. Mr. Edelman.

8 THE COURT: Well, actually I was thinking cocounsel
9 that could cover for you in that trial.

10 MR. GOLLA: I may be able to, your Honor.

11 THE COURT: Or is there any possibility that that
12 trial will not go as to your client?

13 MR. GOLLA: It may not, but I can't be definite about
14 that right now. It's very likely to go to trial.

15 THE COURT: When will you know?

16 MR. GOLLA: I won't know for at least another -- there
17 is a motions hearing scheduled in early July. Actually July 7
18 is the motions hearing in that case.

19 THE COURT: Okay. Any other problems with August 18?

20 MR. BROWN: I'm in a similar position with respect to
21 a trial. I'm certainly would anticipate that the case will be
22 resolved prior to the anticipated trial date of August 15, and
23 I should know by July 22 whether or not that other trial, which
24 is scheduled for federal court, will go.

25 THE COURT: Okay.

1 *MR. EDELMAN:* Your Honor, I'm in that same trial with
2 Mr. Golla. I think it's scheduled for two weeks; and I do not
3 have cocounsel, and it is likely to go to trial.

4 *THE COURT:* All right. We're going to set this for
5 August 18 at 9:00 a.m. And if it appears that that conflicts
6 with an already scheduled trial, you can move to continue.

7 *MR. EDELMAN:* In this case?

8 *THE COURT:* Yes.

9 *MR. EDELMAN:* Thank you.

10 *MS. MAGNELLI:* Your Honor, may the witness step down?

11 *THE COURT:* Actually, he certainly can; but that's
12 going to conclude our hearing, so I think probably everybody
13 will be stepping down, so to speak.

14 Thank you, sir.

15 Thank you to Counsel; thank you to our court staff and
16 our marshal's staff. That will conclude our hearing for today.

17 In light of the fact that this hearing is being
18 continued and there is a pending motion, the Court vacates the
19 trial that's currently set and the final pretrial hearing
20 preceding it. It will be reset at the time that we conclude
21 this -- the ruling on this motion.

22 We'll stand in recess. I wish you all a good Memorial
23 Day weekend.

24 (Recess at 3:37 p.m.)

25 * * * * *

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PLAINTIFF'S EXHIBITS

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REPORTER'S CERTIFICATE

21 I certify that the foregoing is a correct transcript from
 22 the record of proceedings in the above-entitled matter. Dated
 23 at Denver, Colorado, this 1st day of June, 2011.

24

25

S/Paul A. Zuckerman
 Paul A. Zuckerman