



Synthetic Drug Analysis

Test No. 22-5041 Summary Report

Each sample pack consisted of two questioned samples, containing plant material. Participants were requested to analyze these samples for the presence of synthetic drugs. Data were returned from 61 participants and are compiled into the following tables:

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This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

Manufacturer's Information

Each sample pack consisted of two items. Item 1 contained approximately 500 mg of catnip leaf. Item 2 contained approximately 500 mg of damiana leaf spiked with approximately 2 mg of AB-FUBINACA, a synthetic cannabinoid. AB-FUBINACA is a Schedule I controlled substance in the United States.

SAMPLE PREPARATION-

The AB-FUBINACA in Item 2 was a pure powder that was dissolved in 70% ethanol. The solution was mixed thoroughly to ensure homogeneity.

ITEM 1 (PREPARATION): Approximately 500 mg of loose catnip leaf material was weighed out and deposited into a glassine bag, which was folded and secured with a label. The folded glassine bag was placed into a small zip-top bag, which was heat sealed and then placed into a pre-labeled envelope.

ITEM 2 (PREPARATION): Approximately 500 mg of loose damiana leaf material was weighed out and placed into a plastic weigh boat. A total of 5 mL of ethanol containing approximately a 2 mg dose of AB-FUBINACA was dispensed onto the leaf material and allowed to dry. The leaf material was then transferred into a glassine bag which was folded and secured with a label. The folded glassine bag was placed into a small zip-top bag, which was heat sealed and then placed into a pre-labeled envelope.

SAMPLE PACK ASSEMBLY: One of each of the Item 1 and Item 2 envelopes was placed into a larger pre-labeled sample pack envelope.

VERIFICATION: The above substance was identified by predistribution laboratories, who used the following combined list of techniques: LC, GC, and GC/MS.

<u>Item</u>	<u>Substance</u>
Item 1	No Synthetic Substance
Item 2	AB-FUBINACA (cannabinoid)

Summary Comments

This test was designed to allow participants to assess their proficiency in the qualitative analysis of questioned samples that may contain synthetic substances. Item 1 consisted of approximately 500 mg of catnip leaf plant material. Item 2 consisted of 500 mg of damiana leaf plant material containing 2 mg of AB-FUBINACA, a synthetic cannabinoid. In the United States, AB-FUBINACA is a Schedule I controlled substance (See Manufacturer's Information for preparation details).

Of the 61 participants, 60 reported that no synthetic substances were identified for Item 1. For Item 2, 48 of the 61 participants reported the synthetic drug group "cannabinoid" while nine reported that a synthetic substance was detected/identified but did not specify a group. The remaining four participants reported "No synthetic substance was detected/identified." All 57 participants that reported that a synthetic drug was present further identified/detected AB-FUBINACA.

The most common examination methods reported for both items include GC/MS, color tests, LC/MS, and LC.

Synthetic Drug Analysis (Item 1)

TABLE 1a - Item 1 Results
Item Contents: No Synthetic Substance

WebCode	Synthetic Drug Group Detected	Synthetic Drug Detected
2FXQY7	No synthetic drug group or synthetic drug was detected or identified in this item.	
372BRE	No synthetic drug group or synthetic drug was detected or identified in this item.	
3TUH3M	No synthetic drug group or synthetic drug was detected or identified in this item.	
47DKXK	No synthetic drug group or synthetic drug was detected or identified in this item.	
4LTMJE	No synthetic drug group or synthetic drug was detected or identified in this item.	
694VND	No synthetic drug group or synthetic drug was detected or identified in this item.	
74KE96	No synthetic drug group or synthetic drug was detected or identified in this item.	
7AAWP2	No synthetic drug group or synthetic drug was detected or identified in this item.	
7R96R8	No synthetic drug group or synthetic drug was detected or identified in this item.	
83QQTV	No synthetic drug group or synthetic drug was detected or identified in this item.	
9A3K63	No synthetic drug group or synthetic drug was detected or identified in this item.	
9HWPX4	No synthetic drug group or synthetic drug was detected or identified in this item.	
AWT6VC	No synthetic drug group or synthetic drug was detected or identified in this item.	
BKCLVT	No synthetic drug group or synthetic drug was detected or identified in this item.	
BPA6V7	No synthetic drug group or synthetic drug was detected or identified in this item.	
BQK8G6	No synthetic drug group or synthetic drug was detected or identified in this item.	
BTLB9R	No synthetic drug group or synthetic drug was detected or identified in this item.	
C9UJNL	No synthetic drug group or synthetic drug was detected or identified in this item.	
CUX36E	No synthetic drug group or synthetic drug was detected or identified in this item.	

TABLE 1a - Item 1 Results
Item Contents: No Synthetic Substance

WebCode	Synthetic Drug Group Detected	Synthetic Drug Detected
CZMM6N	No synthetic drug group or synthetic drug was detected or identified in this item.	
DFC869	No synthetic drug group or synthetic drug was detected or identified in this item.	
EEWCVL	No synthetic drug group or synthetic drug was detected or identified in this item.	
EMQHPM	No synthetic drug group or synthetic drug was detected or identified in this item.	
F8TR7V	Synthetic substance(s) detected/identified	Unable to determine
F97FNB	No synthetic drug group or synthetic drug was detected or identified in this item.	
FGDY4Z	No synthetic drug group or synthetic drug was detected or identified in this item.	
FJM4GN	No synthetic drug group or synthetic drug was detected or identified in this item.	
FVYCGU	No synthetic drug group or synthetic drug was detected or identified in this item.	
HA82CY	No synthetic drug group or synthetic drug was detected or identified in this item.	
K739BY	No synthetic drug group or synthetic drug was detected or identified in this item.	
L7YVJW	No synthetic drug group or synthetic drug was detected or identified in this item.	
LDYA7J	No synthetic drug group or synthetic drug was detected or identified in this item.	
LP93HW	No synthetic drug group or synthetic drug was detected or identified in this item.	
LQ7DDY	No synthetic drug group or synthetic drug was detected or identified in this item.	
MBPPVN	No synthetic drug group or synthetic drug was detected or identified in this item.	
MC48YU	No synthetic drug group or synthetic drug was detected or identified in this item.	
MCYU8R	No synthetic drug group or synthetic drug was detected or identified in this item.	
MTNV9P	No synthetic drug group or synthetic drug was detected or identified in this item.	
MZ9VN2	No synthetic drug group or synthetic drug was detected or identified in this item.	

TABLE 1a - Item 1 Results
 Item Contents: No Synthetic Substance

WebCode	Synthetic Drug Group Detected	Synthetic Drug Detected
NE79FH	No synthetic drug group or synthetic drug was detected or identified in this item.	
NZLUDJ	No synthetic drug group or synthetic drug was detected or identified in this item.	
QEX99E	No synthetic drug group or synthetic drug was detected or identified in this item.	
QYH7QP	No synthetic drug group or synthetic drug was detected or identified in this item.	
RGZLBX	No synthetic drug group or synthetic drug was detected or identified in this item.	
RJQNGL	No synthetic drug group or synthetic drug was detected or identified in this item.	
T46REU	No synthetic drug group or synthetic drug was detected or identified in this item.	
TP8PTF	No synthetic drug group or synthetic drug was detected or identified in this item.	
U2ETU4	No synthetic drug group or synthetic drug was detected or identified in this item.	
UW4XVL	No synthetic drug group or synthetic drug was detected or identified in this item.	
VJBHMC	No synthetic drug group or synthetic drug was detected or identified in this item.	
W4GDUA	No synthetic drug group or synthetic drug was detected or identified in this item.	
WFAUJB	No synthetic drug group or synthetic drug was detected or identified in this item.	
WU79J4	No synthetic drug group or synthetic drug was detected or identified in this item.	
XHU7X7	No synthetic drug group or synthetic drug was detected or identified in this item.	
XWR9JK	No synthetic drug group or synthetic drug was detected or identified in this item.	
Y3DRTD	No synthetic drug group or synthetic drug was detected or identified in this item.	
YMGB72	No synthetic drug group or synthetic drug was detected or identified in this item.	
YTKEUE	No synthetic drug group or synthetic drug was detected or identified in this item.	
ZACEMY	No synthetic drug group or synthetic drug was detected or identified in this item.	

TABLE 1a - Item 1 Results
Item Contents: No Synthetic Substance

WebCode	Synthetic Drug Group Detected	Synthetic Drug Detected
ZUVH6G	No synthetic drug group or synthetic drug was detected or identified in this item.	
ZZMQPB	No synthetic drug group or synthetic drug was detected or identified in this item.	

<i>Response Summary - Item 1</i>	
Participants: 61	
Synthetic Drug Group Detected:	No synthetic substance(s) detected/identified: 60 Synthetic substance(s) detected/identified: 1
Synthetic Drug Detected:	Other : 1

Examination Methods (Item 1)

TABLE 1b

WebCode	Color	FTIR	LC	UV	GC	Crystal	TLC	LC/MS	Raman	GC/MS	Other
2FXQY7										✓	Microscopic
372BRE	✓									✓	
3TUH3M								✓		✓	Microscopy
47DKKK	✓	✓								✓	microscopic
4LTMJE			✓							✓	Electronic balance and/or mechanical scale
694VND										✓	
74KE96										✓	Microscopy
7AAWP2										✓	
7R96R8										✓	
83QQTV										✓	
9A3K63										✓	
9HWPX4										✓	
AWT6VC										✓	Microscopy
BKCLVT										✓	GC/FID
BPA6V7										✓	
BQK8G6										✓	NMR
BTLB9R	✓									✓	
C9UJNL										✓	
CUX36E			✓							✓	
CZMM6N					✓					✓	
DFC869	✓									✓	
EEWCVL								✓		✓	
EMQHPM										✓	
F8TR7V								✓		✓	
F97FNB			✓							✓	Balance
FGDY4Z										✓	
FJM4GN										✓	
FVYCGU										✓	
HA82CY										✓	
K739BY			✓							✓	electronic balance
L7YVJW										✓	microscopic examination
LDYA7J										✓	
LP93HW			✓	✓						✓	Electronic Balance
LQ7DDY										✓	Visual Examination, Weight

TABLE 1b - Item 1

WebCode	Color	FTIR	LC	UV	GC	Crystal	TLC	LC/MS	Raman	GC/MS	Other
MBPPVN								✓		✓	
MC48YU			✓							✓	Electronic balance/mechanical scale
MCYU8R										✓	
MTNV9P	✓									✓	microscopic
MZ9VN2	✓						✓			✓	microscopic examination
NE79FH										✓	
NZLUDJ					✓					✓	
QEX99E										✓	
QYH7QP					✓					✓	
RGZLBX										✓	LC-TOF-MS; Microscopy
RJQNGL								✓		✓	
T46REU										✓	microscopy
TP8PTF	✓									✓	Macroscopy Morphology and Microscopy Morphology
U2ETU4	✓							✓			HRMS
UW4XVL			✓							✓	Balance
VJBHMC	✓									✓	
W4GDUA										✓	
WFAUJB										✓	
WU79J4										✓	
XHU7X7										✓	
XWR9JK			✓							✓	Microscope, balance
Y3DRTD										✓	
YMGB72	✓				✓						
YTKEUE										✓	Microscopy
ZACEMY										✓	
ZUVH6G										✓	
ZZMQPB								✓		✓	

Response Summary											Total Participants: 61
	Color	FTIR	LC	UV	GC	Crystal	TLC	LC/MS	Raman	GC/MS	
Participants	10	1	8	1	4	0	1	7	0	59	
Percent	16%	2%	13%	2%	7%	0%	2%	11%	0%	97%	

Synthetic Drug Analysis (Item 2)

TABLE 2a - Item 2 Results
Item Contents: AB-FUBINACA (cannabinoid)

WebCode	Synthetic Drug Group Detected	Synthetic Drug Detected
2FXQY7	Cannabinoid	AB-FUBINACA
372BRE	Cannabinoid	AB-FUBINACA
3TUH3M	Cannabinoid	AB-FUBINACA
47DKKK	Cannabinoid	AB-Fubinaca (isomer not determined)
4LTMJE	Cannabinoid	AB-FUBINACA
694VND	Cannabinoid	AB-FUBINACA
74KE96	Cannabinoid	N-[(1S)-1-(AMINOCARBONYL)-2-METHYLPROPYL]-1-[(4-FLUOROPHENYL)METHYL]-1H-INDAZOLE-3-CARBOXAMIDE (AB-FUBINACA)
7AAWP2	Cannabinoid	AB-FUBINACA
7R96R8	Cannabinoid	N-(1-Carbamoyl-2-methylpropyl)-1-(4-fluorobenzyl)-indazole-3-carboxamide (AB-FUBINACA)
83QQTV	Cannabinoid	AB-FUBINACA
9A3K63	Cannabinoid	AB-FUBINACA
9HWPX4	Cannabinoid	AB-FUBINACA
AWT6VC	Synthetic substance(s) detected/identified	AB-FUBINACA
BKCLVT	Cannabinoid	AB-FUBINACA
BPA6V7	Cannabinoid	AB-FUBINACA
BQK8G6	Cannabinoid	AB-FUBINACA
BTLB9R	Cannabinoid	AB-FUBINACA

TABLE 2a - Item 2 Results
 Item Contents: AB-FUBINACA (cannabinoid)

WebCode	Synthetic Drug Group Detected	Synthetic Drug Detected
C9UJNL	Cannabinoid	AB-Fubinaca
CUX36E	Cannabinoid	AB Fubinaca
CZMM6N	Synthetic substance(s) detected/identified	AB-Fubinaca
DFC869	No synthetic drug group or synthetic drug was detected or identified in this item.	
EEWCVL	Synthetic substance(s) detected/identified	AB-FUBINACA
EMQHPM	Cannabinoid	AB-FUBINACA
F8TR7V	Cannabinoid	AB-FUBINACA
F97FNB	Cannabinoid	AB-FUBINACA
FGDY4Z	Synthetic substance(s) detected/identified	AB-FUBINACA
FJM4GN	Cannabinoid	AB-FUBINACA
FVYCGU	Synthetic substance(s) detected/identified	AB-FUBINACA
HA82CY	Cannabinoid	AB-FUBINACA
K739BY	Cannabinoid	AB-FUBINACA
L7YVJW	Cannabinoid	AB-FUBINACA
LDYA7J	Cannabinoid	AB-FUBINACA
LP93HW	Cannabinoid	AB-FUBINACA
LQ7DDY	Synthetic substance(s) detected/identified	AB-FUBINACA
MBPPVN	Cannabinoid	AB-FUBINACA
MC48YU	No synthetic drug group or synthetic drug was detected or identified in this item.	
MCYU8R	Cannabinoid	AB-FUBINACA

TABLE 2a - Item 2 Results
 Item Contents: AB-FUBINACA (cannabinoid)

WebCode	Synthetic Drug Group Detected	Synthetic Drug Detected
MTNV9P	Cannabinoid	AB-FUBINACA (and/or isomers) - trace
MZ9VN2	Cannabinoid	AB-FUBINACA (isomer not determined)
NE79FH	No synthetic drug group or synthetic drug was detected or identified in this item.	
NZLUDJ	Cannabinoid	AB-FUBINACA
QEX99E	Cannabinoid	AB-FUBINACA
QYH7QP	Cannabinoid	AB-Fubinaca
RGZLBX	Cannabinoid	AB-FUBINACA
RJQNGL	Cannabinoid	AB-FUBINACA
T46REU	Cannabinoid	AB-FUBINACA
TP8PTF	No synthetic drug group or synthetic drug was detected or identified in this item.	
U2ETU4	Cannabinoid	AB-FUBINACA
UW4XVL	Cannabinoid	AB-FUBINACA
VJBHMC	Cannabinoid	AB-FUBINACA
W4GDUA	Cannabinoid	AB-FUBINACA
WFAUJB	Cannabinoid	AB-FUBINACA
WU79J4	Cannabinoid	AB-FUBINACA
XHU7X7	Cannabinoid	AB-FUBINACA
XWR9JK	Cannabinoid	AB-FUBINACA
Y3DRTD	Synthetic substance(s) detected/identified	AB-FUBINACA
YMGB72	Cannabinoid	AB-FUBINACA

TABLE 2a - Item 2 Results
Item Contents: AB-FUBINACA (cannabinoid)

WebCode	Synthetic Drug Group Detected	Synthetic Drug Detected
YTKEUE	Synthetic substance(s) detected/identified	AB-FUBINACA
ZACEMY	Cannabinoid	AB-Fubinaca
ZUVH6G	Synthetic substance(s) detected/identified	AB-FUBINACA
ZZMQPB	Cannabinoid	AB FUBINACA

<i>Response Summary - Item 2</i>	
Participants: 61	
Synthetic Drug Group Detected:	Cannabinoid: 48
	Synthetic substance(s) detected/identified: 9
	No synthetic substance detected/identified: 4
Synthetic Drug Detected:	AB-FUBINACA: 57

Examination Methods (Item 2)

TABLE 2b

WebCode	Color	FTIR	LC	UV	GC	Crystal	TLC	LC/MS	Raman	GC/MS	Other
2FXQY7										✓	
372BRE	✓									✓	
3TUH3M								✓		✓	Microscopy, GC/IR
47DKXK	✓	✓			✓					✓	microscopic
4LTMJE			✓							✓	Electronic Balance and/or Mechanical Scale
694VND										✓	
74KE96										✓	Microscopy
7AAWP2										✓	GC/IR
7R96R8										✓	
83QQTV										✓	
9A3K63										✓	
9HWPX4										✓	
AWT6VC										✓	Microscopy
BKCLVT										✓	GC/FID
BPA6V7										✓	
BQK8G6										✓	NMR
BTLB9R	✓									✓	
C9UJNL										✓	
CUX36E			✓	✓						✓	
CZMM6N					✓					✓	
DFC869	✓									✓	
EEWCVL								✓		✓	GC/IR
EMQHPM										✓	
F8TR7V								✓		✓	
F97FNB			✓							✓	Balance
FGDY4Z										✓	
FJM4GN	✓									✓	
FVYCGU										✓	
HA82CY								✓		✓	
K739BY			✓							✓	electronic balance

TABLE 2b - Item 2

WebCode	Color	FTIR	LC	UV	GC	Crystal	TLC	LC/MS	Raman	GC/MS	Other
L7YVJW										✓	microscopic examination
LDYA7J										✓	
LP93HW			✓	✓						✓	Electronic Balance
LQ7DDY										✓	Visual Examination, Weight
MBPPVN								✓		✓	
MC48YU			✓							✓	Electronic balance/mechanical scale
MCYU8R										✓	
MTNV9P	✓					✓				✓	microscopic
MZ9VN2	✓	✓		✓	✓		✓			✓	microscopic examination; GC-IR
NE79FH										✓	
NZLUDJ						✓				✓	
QEX99E										✓	
QYH7QP						✓				✓	
RGZLBX										✓	LC-TOF-MS; GC-IR; Microscopy
RJQNGL								✓		✓	
T46REU										✓	microscopy
TP8PTF	✓									✓	Macroscopy Morphology and Microscopy Morphology
U2ETU4	✓							✓			HRMS
UW4XVL			✓							✓	Balance
VJBHMC	✓									✓	
W4GDUA										✓	
WFAUJB										✓	
WU79J4										✓	
XHU7X7										✓	
XWR9JK			✓	✓						✓	Microscope, balance
Y3DRTD										✓	
YMGB72	✓									✓	
YTKEUE										✓	Microscopy

TABLE 2b - Item 2

WebCode	Color	FTIR	LC	UV	GC	Crystal	TLC	LC/MS	Raman	GC/MS	Other
ZACEMY										✓	
ZUVH6G										✓	
ZZMQPB								✓		✓	

Response Summary											Total Participants: 61
	Color	FTIR	LC	UV	GC	Crystal	TLC	LC/MS	Raman	GC/MS	
Participants	11	2	8	4	6	0	1	8	0	60	
Percent	18%	3%	13%	7%	10%	0%	2%	13%	0%	98%	

Additional Comments

TABLE 3

WebCode	Additional Comments
4LTMJE	Reporting Statement for Item 1: No controlled substances confirmed in the sample tested as defined by O.C.G.A. § 16-13. Net weight of sample tested: Less than 1 gram. Reporting Statement for Item 2: Analysis confirms the presence of an indazole amide, in the sample tested, Schedule I. The indazole amide is N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl)methyl]-1H-indazole-3-carboxamide (AB-FUBINACA), or an isomer of AB-FUBINACA. Sample was consumed during analysis.
74KE96	Item 1 - Low level peaks were indicated on the GCMS however when the sample was concentrated, however, we were unable to confirm their identity in the analysis carried out to date.
7R96R8	Position of F differentiated (2F versus 4F isomer) based on retention time differences. 4-Fluoro isomer of AB-FUBINACA reported.
83QQTV	Item 1.1 (Agency Item SDA). No controlled substances were identified in the crushed plant material in the glassine bag. Item 1.2 (Agency Item SDA). AB-FUBINACA was identified in the glassine bag. The total weight of the crushed plant material was 502 milligrams +/- 3 milligrams. Weight measurement uncertainty calculated at a coverage probability of 95.45%.
9A3K63	Reporting of 2a [Synthetic Drug Analysis, Table 2a: Item 2 Results] would include "or one of its isomers"
CUX36E	Analysis confirms the presence of an indazole amide, in the sample tested, Schedule I. The indazole amide is N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl)methyl]-1H-indazole-3-carboxamide (AB-FUBINACA), or an isomer of AB-FUBINACA.
CZMM6N	In Item1 we have found several hydrocarbones and Oxooctahydrocyclopentapyran (with no synthetic drugs in this item). In Item2 we have found several Hydrocarbones as well as AB-Fubinaca.
DFC869	Both samples were run after a full general extraction (neutral, acid, base) and a 2nd time with a CHCl3/Methanol wash of a larger amount of material.
F8TR7V	Item 2: there was also an AB-FUBINACA oxidative deamination breakdown product detected
F97FNB	Full results for item 2 as it appears on report: Analysis confirms the presence of an indazole amide, in the sample tested, Schedule I. The indazole amide is N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl)methyl]-1H-indazole-3-carboxamide (AB-FUBINACA), or an isomer of AB-FUBINACA.
K739BY	item 2 reporting language: Analysis confirms the presence of an indazole amide in the sample tested, Schedule I. The indazole amide is N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl)methyl]-1H-indazole-3-carboxamide (AB-FUBINACA), or an isomer of AB-FUBINACA.
LP93HW	Result verbiage for item 2: Analysis confirms the presence of an indazole amide, in the sample tested, Schedule I. The indazole amide is N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl)methyl]-1H-indazole-3-carboxamide (AB-FUBINACA), or an isomer of AB-FUBINACA. Item 2 does not accurately represent similar cases found in casework. All of this item had to be used and concentrated to an insert amount in EtOH to give data that meets positive criteria. Generally in casework, these types of samples are much more concentrated and do not require the whole sample to be used. The submission process of this PT shows some bias in how many drugs are present if any at all. I am only allowed to select one drug group, so that rules out the idea that there might be more than one drug group present (synthetic cannabinoid and synthetic cathinone for example).
MBPPVN	1) One sealed paper envelope labelled 'Item 1' which held one grip-seal plastic bag, which held one paper package containing 499 milligrams of green herbal material. No controlled drugs were confirmed in the green herbal material, under the provisions of the Misuse of Drugs Act 1971 (as amended). 2) One sealed paper envelope labelled 'Item 2' which held one grip-seal plastic bag, which held one paper package containing 502 milligrams of green herbal material. The green herbal material contained N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl) methyl]-1H-indazole-3-carboxamide (AB-FUBINACA). AB-FUBINACA is a class B controlled drug under the provisions of the Misuse of Drugs Act 1971 (as amended).

TABLE 3

WebCode	Additional Comments
MC48YU	Item 2 was insufficient for an indazole amide (Schedule I). The indazole amide is N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl)methyl]-1H-indazole-3-carboxamide (AB-FUBINACA), or an isomer of AB-FUBINACA. Item 2 was also insufficient for hydroquinone/resorcinol (specific isomer not identified). Per [Laboratory] policy, the sample was consumed, placed in an appropriate organic solvent (that I would have used for casework), sonicated for 15 minutes to extract as much target analyte from the leafy material as possible, and concentrated to a 250-350 microliter insert. The indazole amide is inconclusive/weak per [Laboratory] policy as I could not produce the molecular weight ion in GC/MS (which is present in my reference material). The hydroquinone/resorcinol is weak and I cannot produce a clean mass spectrum due to interference from other peaks.
UW4XVL	Reporting verbiage for item 2: "Analysis confirms the presence of an indazole amide, in the sample tested, Schedule I. The indazole amide is N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl)methyl]-1H-indazole-3-carboxamide (AB-FUBINACA), or an isomer of AB-FUBINACA. "
WFAUJB	AB-FUBINACA is a class B substance in [Country], under The Misuse of Drugs Act 1971 (as amended)
XWR9JK	Analysis confirms the presence of an indazole amide, in the sample tested, Schedule I. The indazole amide is N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl)methyl]-1H-indazole-3-carboxamide (AB-FUBINACA), or an isomer of AB-FUBINACA.
ZUVH6G	Isomeric form not determined
ZZMQPB	Full name of the drug listed is N-[(1S)-1-(aminocarbonyl)-2-methylpropyl]-1-[(4-fluorophenyl)methyl]-1H-indazole-3-carboxamide.

-End of Report-
(Appendix may follow)

Test No. 22-5041: Synthetic Drug Analysis

DATA MUST BE SUBMITTED BY **Sept. 26, 2022, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234D

WebCode: LBQDJU

The Accreditation Release section can be accessed by using the "Continue to Final Submission" button above. This information can be entered at any time prior to submitting to CTS.

Scenario:

An investigator has submitted two questioned samples for analysis, both of which appear to be plant material. Please examine the samples and determine if any synthetic drugs are present.

Items Submitted (Sample Pack SDA):

Item 1: Plant Material

Item 2: Plant Material

1a.) Were any synthetic substances present in Item 1? If yes, list each substance.

- No synthetic substance detected/identified
- Synthetic Substance(s) detected/identified (please list below).
Following your lab's protocols, list the synthetic drug group and/or synthetic drug present in the sample.

Synthetic drug group
(e.g. cathinones)

Synthetic drug
(e.g. dibutylone)

1b.) What methods were used to examine Item 1?

(If color and/or crystal tests are used, please simply check the appropriate method below. Specific color and crystal tests will not be listed in the summary report.)

Color Tests FTIR LC UV GC
Crystal Tests TLC LC/MS Raman GC/MS

Other (specify):

2a.) Were any synthetic substances present in Item 2? If yes, list each substance.

- No synthetic substance detected/identified
- Synthetic Substance(s) detected/identified (please list below).
Following your lab's protocols, list the synthetic drug group and/or synthetic drug present in the sample.

Synthetic drug group
(e.g. cathinones)

Synthetic drug
(e.g. dibutylone)

2b.) What methods were used to examine Item 2?

(If color and/or crystal tests are used, please simply check the appropriate method below. Specific color and crystal tests will not be listed in the summary report.)

- Color Tests FTIR LC UV GC
 Crystal Tests TLC LC/MS Raman GC/MS

Other (specify):

3.) Additional Comments

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section below must be completed.)
- This participant's data is not intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

Have the laboratory's designated individual complete the following steps **only if your laboratory is accredited in this testing/calibration discipline** by one or more of the following Accreditation Bodies.

Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory.

ANAB Certificate No.
(Include ASCLD/LAB Certificate here)

A2LA Certificate No.

Step 2: Complete the Laboratory Identifying Information in its entirety.

Authorized Contact Person and Title

Laboratory Name

Location (City/State)