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Thermo Scientific TruNarc Handheld Narcotics Analyzer

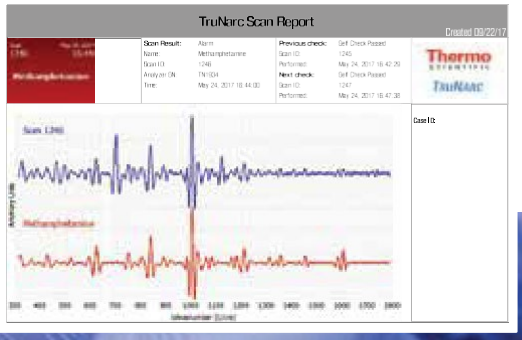
Field-based presumptive narcotics, precursor and cutting agent testing

ThermoFisher SCIENTIFIC

The TruNarc Handheld Narcotics Analyzer

- Tests for almost 500 substances, including narcotics, stimulants, depressants, hallucinogens and analgesics
- Library regularly updated to include emerging drug threats
- Requires no direct contact with most substances
- Delivers clear, real-time results for presumptive evidence
- Provides automated, tamper-proof records with scan results, including time-and-date stamps to help expedite prosecution

limits direct contact



Helping law enforcement

TruNarc: Efficient, Economical, Safe

Agencies across the United States who deploy TruNarc are seeing immediate benefits:

- Even little known substances can be identified almost instantly in the field
- The need for Law Enforcement Officers to handle potentially lethal narcotics is greatly reduced
- Valuable lab time is freed up for higher priority cases
- Reduced demand for lab testing delivers significant cost savings

benefits

stay ahead of the curve: safe, preci

TruNarc Success Stories

quickly identified fentanyl

Quincy PD, Massachusetts: Little-known Drugs Identified Quickly

- TruNarc immediately identified an unknown sample as Alpha-PVP (“Flakka”) a synthetic cathinone
- Official state-wide alert about new drug issued next day

Etowah County, Alabama: Reduced Court Wait Times

- *“We’re definitely seeing a benefit because of TruNarc. We’re able to take cases to the grand jury where before we didn’t have a toxicology report. Now, a defendant doesn’t have to wait for his day in court. It’s been a godsend.”*

  – Etowah County

Charles County, Maryland: Improved Protection for Law Enforcement Officers

- Using TruNarc, officers quickly identified fentanyl (a potent opioid absorbed by touch, potentially causing overdose or death) in heroin seizure.
- *“The safety of our officers is one of our top priorities, and this technology will allow us to safely identify controlled dangerous substances quickly and accurately without having to wait on lab results.”*

  – Charles County

se narcotics identification

TruNarc Helps Keep Officers Safe

The use of illicit narcotics and opioids continues to skyrocket. Emerging lethal drugs like fentanyl and carfentanil threaten public safety.

To save lives and protect law enforcement officers, banned substances need to be identified quickly, safely and accurately.

The Thermo Scientific™ TruNarc™ Analyzer rapidly identifies drugs and can reduce the backlog of cases at crime labs while decreasing costs. This leads to quicker case resolution and helps drug offenders access treatment faster.

saves time and money

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TruNarc: A more accurate and reliable presumptive test

Specifications	Description
Weight	**1.25 lb (.570 kg)**
Size	6.4 x 4.1 x 2.0 in. (16.26 x 10.41 x 5.10 cm)
Library	Controlled substances, cutting agents and precursors
Configurations	Unlimited or Pay-Per-Scan
Data export formats	CSV, SPC, PDF, SCZ, SCN
Battery	Rechargeable internal 3.7V battery pack (10 hrs.); DC wall adapter, 5V DC, 1.5A; optional car charger
Operating temperature	14° F to 122° F (-10° C to +50° C)
Language configurations	English, Arabic, Chinese, Czech, Dutch, French, Japanese, Polish, Russian, Spanish
Computer administration	TruNarc Admin software connected via microUSB to USB
Reachback support	Spectral analysis by staff chemists available
Validation	Third party test results available on request

To learn more about the TruNarc or schedule a demo, please visit us on line at: **thermofisher.com/trunarc**

ThermoFisher SCIENTIFIC

RB 1810320 1019 v03

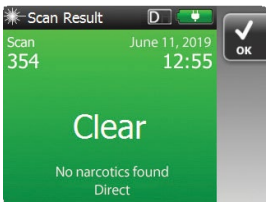
April 2023

TruNarc v1.10 substance library: Display names

Alarm

1 1,4-Dibenzylpiperazine (DBZP)
2 1-Naphthyl U-47700
3 2',5'-Dimethoxy fentanyl
4 25B-NBOMe
5 25C-NBOMe
6 25D-NBOMe
7 25E-NBOMe
8 25I-NBOMe
9 25N-NBOMe
10 25P-NBOMe
11 25T4-NBOMe
12 25T7-NBOMe
13 2-AI (Aminoindan)
14 2C-B (phenethylamine)
15 2C-C (phenethylamine)
16 2C-D (phenethylamine)
17 2C-E (phenethylamine)
18 2C-H (phenethylamine)
19 2-Chloromethcathinone (2-CMC)
20 2C-I (phenethylamine)
21 2C-N (phenethylamine)
22 2C-P (phenethylamine)
23 2C-T-2 (phenethylamine)
24 2C-T-7 (phenethylamine)
25 2-Ethylmethcathinone (2-EMC)
26 2-Fluoromethamphetamine
27 2-MAPB
28 2-Methyl AP-237
29 2-Methylmethcathinone (2-MMC)
30 3,4-Dichloromethylphenidate
31 3,4-Dimethoxymethcathinone
32 3-Bromoamphetamine
33 3-Bromomethcathinone (3-BMC)
34 3-Chloroethcathinone (3-CEC)
35 3-Chloromethcathinone (3-CMC)
36 3-Ethylmethcathinone (3-EMC)
37 3-Fluoroamphetamine
38 3-Fluoromethcathinone (3-FMC)
39 3-Fluorophenmetrazine
40 3-MeO-PCP
41 3-Methoxymethcathinone
42 3-Methylmethcathinone (3-MMC)
43 4-APDB
44 4-Bromoethcathinone (4-BEC)
45 4-Bromomethcathinone (4-BMC)
46 4-Chloro 2,5-DMA
47 4-Chloroamphetamine
48 4-Chloroethcathinone (4-CEC)
49 4-Chloromethcathinone (4-CMC)
50 4-Chloro-N-isopropylcathinone
51 4-Chloropentedrone (cathinone)
52 4-Cyano CUMYL-BUT7AICA (cannabinoid)
53 4-Cyano CUMYL-BUTINACA (cannabinoid)
54 4-Ethylethcathinone
55 4-Ethylmethcathinone
56 4-Fluoro PV8
57 4-Fluoro-alpha-PVP (cathinone)
58 4-Fluoroamphetamine
59 4-Fluorobuphedrone (cathinone)
60 4-Fluoromethamphetamine
61 4-Fluoromethcathinone (4-FMC)
62 4-Fluoropentedrone (cathinone)
63 4-MeO-alpha-PVP (cathinone)
64 4-MeO-DMT
65 4-MeO-PCP
66 4-Methoxy PV8
67 4'-Methyl acetylfentanyl
68 4-Methylaminorex
69 4-Methylbuphedrone (cathinone)
70 4-Methylethcathinone (4-MEC)
71 4-Methylpentedrone (cathinone)
72 5-APB
73 5-APDB
74 5-Chloro AB-PINACA (cannabinoid)
75 5-Chloro AKB48 (cannabinoid)
76 5-Chloro UR-144 (cannabinoid)
77 5-DBFPV
78 5-EAPB
79 5-Fluoro ABICA (cannabinoid)
80 5-Fluoro AB-PINACA (cannabinoid)
81 5-Fluoro ADB (cannabinoid)
82 5-Fluoro ADBICA (cannabinoid)
83 5-Fluoro AEB (cannabinoid)
84 5-Fluoro AKB48 (cannabinoid)
85 5-Fluoro AMB (cannabinoid)
86 5-Fluoro CUMYL-P7AICA (cannabinoid)
87 5-Fluoro EDMB-PINACA (cannabinoid)
88 5-Fluoro MDMB-PICA (cannabinoid)
89 5-Fluoro MN-18 (cannabinoid)
90 5-Fluoro NNEI (cannabinoid)
91 5-Fluoro NPB-22 (cannabinoid)
92 5-Fluoro PB-22 (cannabinoid)
93 5-Fluoro SDB-006 (cannabinoid)
94 5-IAI
95 5-IT
96 5-MAPB
97 5-MeO-DALT
98 5-MeO-DiPT
99 5-MeO-MiPT
100 6-APDB
101 6-Bromo-MDMA
102 6-Chloro-MDMA
103 6-EAPB
104 7-APDB
105 A-834735 (cannabinoid)
106 AB-001 (cannabinoid)
107 AB-CHMINACA (cannabinoid)
108 AB-FUBINACA (cannabinoid)
109 AB-PINACA (cannabinoid)
110 Acetyl fentanyl
111 Acrylfentanyl
112 ADB-FUBINACA (cannabinoid)
113 ADB-PINACA (cannabinoid)
114 AH-7921
115 AKB48 (APINACA) (cannabinoid)
116 Alfentanil
117 alpha-Methyl acetylfentanyl
118 alpha-Methyl fentanyl
119 alpha-Methyltryptamine (AMT)
120 alpha-PiHP (cathinone)
121 alpha-PVP (cathinone)
122 Alprazolam
123 AM1220 (cannabinoid)
124 AM1235 (cannabinoid)
125 AM1241 (cannabinoid)
126 AM1248 (cannabinoid)
127 AM2201 (cannabinoid)
128 AM2233 (cannabinoid)
129 AM630 (cannabinoid)
130 AM694 (cannabinoid)
131 Amphetamine
132 AP-237
133 APICA (cannabinoid)
134 APP-CHMINACA (cannabinoid)
135 APP-FUBINACA (cannabinoid)
136 APP-PICA (cannabinoid)
137 BB-22 (cannabinoid)
138 Benzedrone (cathinone)
139 Benzodioxole fentanyl
140 Benzyl fentanyl
141 bk-2C-B
142 Bromadol
143 Bromo-dragonFLY (phenethylamine)
144 Brorphine
145 Buphedrone (cathinone)
146 Buprenorphine
147 Butalbital
148 Butonitazene
149 Butylone (cathinone)
150 Butyryl fentanyl
151 BZP
152 Carfentanil
153 Carisoprodol
154 Cathinone
155 CB-13
156 Clonazepam
157 Clonazolam
158 Cocaine
159 Cocaine base
160 Cocaine HCl
161 Codeine
162 CP-47 497 (cannabinoid)
163 Crotonyl fentanyl
164 CUMYL-THPINACA (cannabinoid)
165 Cyclobenzaprine
166 Cyclobutyl fentanyl
167 Cyclohexyl fentanyl
168 Cyclopentyl fentanyl
169 Cyclopropyl fentanyl
170 Deschloroketamine
171 Desomorphine
172 Dextromethorphan (DXM)
173 Diazepam
174 Dibutylone (bk-DMBDB) (cathinone)
175 Diclazepam
176 Diethylcathinone
177 Dimethylaminorex (DMAR)
178 Dimethylcathinone
179 Dimethylmethcathinone
180 Dimethylone (bk-MDDMA) (cathinone)
181 Dimethyltryptamine (DMT)
182 Diphenidine
183 Diphenylprolinol (D2PM)
184 EADB-FUBINACA (cannabinoid)
185 EAM-2201 (cannabinoid)
186 EMB-FUBINACA (cannabinoid)
187 Ethcathinone
188 Ethylone (cathinone)
189 Ethylphenidate
190 Etizolam
191 Eutylone (cathinone)
192 FDU-PB-22 (cannabinoid)
193 Fenethylline
194 Fentanyl
195 Flualprazolam
196 Flubromazepam
197 Flubromazolam
198 Flunitazene
199 Flunitrazepam
200 Fluoxetine
201 FUB-144 (cannabinoid)
202 FUB-AMB (cannabinoid)
203 FUB-JWH-018 (cannabinoid)
204 FUB-PB-22 (cannabinoid)
205 Furanyl fentanyl
206 Gabapentin
207 GBL
208 GHB
209 Heroin
210 Hexanoyl fentanyl
211 HU-210 (cannabinoid)
212 HU-211 (cannabinoid)
213 Hydromorphone
214 Isobutyryl fentanyl
215 Isopropyl U-47700
216 Isotodesnitazene
217 Isotonitazene
218 JWH-015 (cannabinoid)
219 JWH-018 (cannabinoid)
220 JWH-019 (cannabinoid)
221 JWH-020 (cannabinoid)
222 JWH-073 (cannabinoid)
223 JWH-081 (cannabinoid)
224 JWH-122 (cannabinoid)
225 JWH-182 (cannabinoid)
226 JWH-200 (cannabinoid)
227 JWH-203 (cannabinoid)
228 JWH-210 (cannabinoid)
229 JWH-250 (cannabinoid)
230 JWH-412 (cannabinoid)
231 Ketamine
232 Levorphanol
233 Lisdexamfetamine
234 MAB-CHMINACA (cannabinoid)
235 MAM-2201 (cannabinoid)
236 mCPP
237 MDA
238 MDAI
239 MDEA
240 MDMA
241 MDMB-CHMICA (cannabinoid)
242 MDMB-FUBINACA (cannabinoid)
243 MDPBP (cathinone)
244 MDPHP (cathinone)
245 MDPPP (cathinone)
246 MDPV (cathinone)
247 Mephedrone (cathinone)
248 Mephtetramine (MTTA)
249 Mescaline-NBOMe
250 meta-Fluoro methoxyacetyl fentanyl
251 meta-Fluorofentanyl
252 Methadone
253 Methamphetamine
254 Methaqualone
255 Methcathinone
256 Methedrone (cathinone)
257 Methoxetamine (MXE)
258 Methoxphenidine (MXP)
259 Methoxyacetylfentanyl
260 Methylone (cathinone)
261 Methylphenidate
262 Metodesnitazene
263 Metonitazene
264 Mexedrone (cathinone)
265 MMB2201 (cannabinoid)
266 MMB-CHMICA (cannabinoid)
267 MN-18 (cannabinoid)
268 MN-24 (NNEI) (cannabinoid)
269 MN-25 (cannabinoid)
270 MO-CHMINACA (cannabinoid)
271 Morphine
272 MPHP (cathinone)
273 N,N-Diethylpentylone (cathinone)
274 N,N-Dimethylpentylone (cathinone)
275 Naphyrone (cathinone)
276 N-Ethylbuphedrone (cathinone)
277 N-Ethylhexedrone (cathinone)
278 N-Ethylnorketamine
279 N-Ethylpentedrone (cathinone)
280 N-Ethylpentylone (cathinone)
281 Nimetazepam
282 Nitracaine
283 NPB-22 (cannabinoid)
284 N-Piperidinyl etonitazene
285 N-Pyrrolidino etonitazene
286 NRG-3 (cathinone)
287 Ocfentanil
288 ortho-Fluorofentanyl
289 ortho-Methyl acetyl fentanyl
290 ortho-Methyl furanyl fentanyl
291 Oxazepam
292 Oxycodone
293 Oxymorphone
294 para-Chloro furanylfentanyl
295 para-Chlorofentanyl
296 para-Chloroisobutyryl fentanyl
297 para-Fluoro cyclopropyl fentanyl
298 para-Fluoro furanyl fentanyl
299 para-Fluoro methoxyacetyl fentanyl
300 para-Fluorobutyryl fentanyl
301 para-Fluorofentanyl
302 para-Fluoroisobutyrylfentanyl (FIBF)
303 para-Methoxy butyryl fentanyl
304 para-Methoxyacetyl fentanyl
305 para-Methoxyfentanyl
306 para-methyl AP-237
307 para-Methyl furanyl fentanyl
308 PB-22 (cannabinoid)
309 PCP
310 Pentedrone (cathinone)
311 Pentylone (cathinone)
312 Phenazepam
313 Phentermine
314 Phenyl fentanyl
315 PMA
316 PMEA
317 PMMA
318 Pravadoline
319 Protonitazene
320 PX-1 (cannabinoid)
321 PX-2 (cannabinoid)
322 RCS-4 (cannabinoid)
323 RCS-8 (cannabinoid)
324 Remifentanil
325 SDB-005 (cannabinoid)
326 ß'-Phenyl fentanyl
327 STS-135
328 Sufentanil
329 t-BOC MDMA
330 t-BOC Methamphetamine
331 Temazepam
332 Tetrahydrofuran fentanyl
333 TFMPP
334 Thiophene fentanyl
335 THJ-018 (cannabinoid)
336 THJ-2201 (cannabinoid)
337 Tramadol
338 Trihexyphenidyl (THP)
339 U-47700
340 U-48800
341 U-49900
342 U-50488
343 U-51754
344 UR-144 (cannabinoid)
345 UR-144 N-heptyl (cannabinoid)
346 Valeryl fentanyl
347 W-18
348 XLR-11 (cannabinoid)
349 XLR-11 N-(4-pentenyl)
350 Xylazine
351 Zolpidem
352 β-Hydroxythiofentanyl

Clear



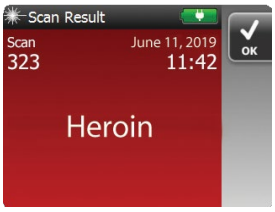
1 2-Ethylamino- 1-phenylbutane
2 Antipyrine
3 Atropine
4 Baby powder
5 Baking soda
6 Benzocaine
7 Boric acid
8 Brucine
9 Caffeine*
10 Calcium carbonate
11 Calcium stearate
12 Calcium sulfate
13 Cellulose
14 Chloroquine
15 Citric acid
16 Confectioner's sugar
17 Copper phthalocyanine
18 Corn starch
19 Creatine
20 Dextrose
21 Diltiazem
22 Dimethyl aminoantipyrine
23 Dimethyl sulfone
24 Diphenhydramine (Benadryl)
25 Dipyrone
26 Epsom salt
27 Ethanol
28 Ethyl benzoate
29 Fructose
30 Glucose
31 Glutamine
32 Griseofulvin
33 Guaifenesin
34 Gypsum
35 High density polyethylene
36 Hydroxyzine
37 Inositol
38 Isopropyl benzylamine
39 Lactose
40 Levamisole (Tetramisole)
41 Lidocaine
42 Loratidine
43 Low density polyethylene
44 Magnesium citrate
45 Magnesium stearate
46 Magnesium sulfate
47 Maltose
48 Mannitol
49 Methyl salicylate
50 Methylhexanamine (DMAA)
51 Minoxidil
52 Naloxone*
54 Naproxen
55 Nicotinamide*
56 Nicotine
57 Nicotinic acid
58 N-Methyl- phenethylamine
59 Noscapine
60 Papaverine*
61 Phenacetin
62 Piracetam
63 Plaster of Paris
64 Poly(propylene glycol)
65 Polyethylene glycol
66 Polyethylene terephthalate
67 Polypropylene
68 Polyvinyl chloride
69 Procaine*
70 Propyphenazone
71 Quinine*
72 Saccharin
73 Silicon dioxide
74 Sodium sulfate
75 Sorbitol
76 Sucrose
77 Sugar
78 Tetracaine
79 Theophylline
80 Titanium oxide
81 Vitamin C

* These substances may also be displayed after a TypeH scan.

Precursor/Chemical

1 1,4-Butanediol
2 1-Phenethyl-4-piperidone (NPP)
3 Acetic acid
4 Acetic anhydride
5 Acetone
6 Acetyl bromide
7 Acetyl chloride
8 Acetyl norfentanyl
9 AIBN
10 Ammonium chloride
11 Ammonium nitrate
12 Ammonium sulfate
13 Anthranilic acid
14 APAA
15 APAAN
16 Barium sulfate
17 Benzoic acid
18 BMK ethyl glycidate
19 BMK Glycidic acid
20 BMK Glycidic acid (sodium salt)
21 BMK methyl glycidate
22 Bromobenzene
23 Chloroephedrine/ Chloropseudoephedrine
24 Chloroform
25 Chlorophenyl cyclopentyl ketone
26 Chloropseudoephedrine
27 Cyclohexane
28 Cyclohexanone
29 Despropionyl fentanyl (ANPP)
30 Despropionyl para-fluorofentanyl
31 Dichloromethane
32 Diethyl ether
33 Dihydrosafrole
34 Dimethylacetamide
35 Ephedrine
36 Ethyl acetate
37 H-Phe- Cyclohexylamide
38 Hydrogen Peroxide
39 Hydroxylamine
40 Hydroxylimine
41 Hypophosphorous acid
42 Isopropanol
43 Isosafrole
44 Lead acetate
45 MAPA
46 Methanol
47 Methyl ethyl ketone (MEK)
48 Methylamine HCl
49 MYCP
50 N-Benzyl para-fluoro norfentanyl
51 N-Benzyl phenyl norfentanyl
52 N-Isopropylbenzylamine
53 Nitric acid
54 N-Methyl cyclopropyl norfentanyl
55 N-Methyl norfentanyl
56 N-Methylephedrine
57 Norephedrine
58 Norfentanyl
59 Palladium chloride
60 Phenethylamine
61 Phenyl-2-propanone (P2P, BMK)
62 Phenylacetic acid
63 Phenylnitropropene
64 Phosphoric acid
65 Piperidine
66 Piperonal
67 Piperonyl methyl ketone (PMK, MDP2P)
68 PMK (MDP2P) methyl glycidate
69 PMK Glycidic acid (sodium salt)
70 Potassium permanganate
71 Propyl acetate
72 Pseudoephedrine
73 Red phosphorus
74 Safrole
75 Sodium acetate
76 Sodium carbonate
77 Sulfuric acid
78 t-BOC Pseudoephedrine
79 Toluene
80 White Fuel (camping)
81 Xylene

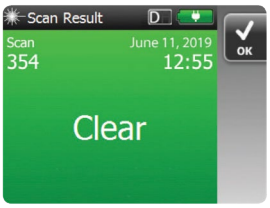
Type H Alarm



1 25B-NBOMe
2 25C-NBOMe
3 25I-NBOMe
4 2C-B (phenethylamine)
5 2C-E (phenethylamine)
6 2C-I (phenethylamine)
7 Alprazolam
8 Buprenorphine*#
9 Clonazepam
10 Cocaine HCl
11 Diazepam
12 Fentanyl Compound or Methamphetamine ^ †
13 Flubromazolam
14 Heroin
15 Heroin w/Fentanyl Compound or Methamphetamine †
16 Hydromorphone*
17 Lorazepam
18 MDMA
19 Oxycodone*
20 Oxymorphone*
21 Synthetic Cannabinoid+

* Some low dose pills require a Type H Kit for identification.
# Buprenorphine both tablet and strip.
+ A "Synthetic Cannabinoid" screen result encompasses the individual cannabinoids listed above.
^ Fentanyl Compound includes fentanyl and fentanyl analogs.
† Combined result

Type H Clear



1 Caffeine
2 Naloxone
3 Nicotinamide
4 Noscapine
5 Papaverine
6 Procaine
7 Quinine

Warning

1 Acetaminophen (Paracetamol)*
2 Aspirin
3 Ibuprofen*

These substances have a strong Raman signal which can mask certain narcotics.
Additional testing via an alternate method is recommended.
* These substances may also be displayed after a TypeH scan.

Learn more at **thermofisher.com.trunarc**

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10 REASONS Handheld Raman for Narcotics ID Strengthens Law Enforcement

A well-established technique for identifying chemicals, Raman spectroscopy has been used in forensic laboratory analysis for decades. It is widely accepted by the scientific community and has a proven track record in the United States court system.

1

Point and Shoot Simplicity

A handheld Raman analyzer can ID hundreds of narcotics, precursors or cutting agents in seconds-right at the scene. With high specificity, the analyzer is non-destructive, non-contact and easy to use.

2

Court-admissible Results

Handheld Raman analysis is allowed in early court proceedings. Law enforcement gains probable cause and the ability to charge suspects while rapidly moving cases through the system.

3

Faster Turnaround

With backlogs at the crime lab, the time between arrest and early court proceedings can reach one year in some cases. With admission of handheld Raman analysis, cases can be prepared for court in a matter of weeks.

4

Complete Police Reports

A handheld analyzer automatically generates a tamper-proof report, with test location, time, result and operator, for inclusion in the investigative file delivered to the prosecuting attorney's office.

5

6

Lower Costs

Given the cost per sample at the crime lab, drug testing can run tens of thousands of dollars per month. By deploying a handheld Raman analyzer, law enforcement can realize substantial savings over the life of the instrument.

7

Early Warning Sign

Handheld Raman analysis helps discover novel synthetic compounds. When these new substances are understood at the lab level, the information is quickly passed back to the analyzer for positive field ID.

8

Fast Library Updates

As new drug threats emerge, new substances can be added to an analyzer's "fingerprint" library quickly. These updates are made available frequently and are typically free of charge.

9

Beyond Wet Chemistry Kits

Wet chemistry kits require multiple steps with user interpretation. Some drugs require multiple chem kits to make the correct call. Handheld Ramanprovides a more accurate and reliable test, and is a total solution.

Reduced Backlogs at the Crime Lab

In jurisdictions that permit handheld Raman analysis,crime labs may enjoy more efficient operation because each field test becomes a screening test, preventing backlogs.Lea

vation

Handheld Raman technology helps law enforcement respond to the rising demands on police services. The analyzer improves testing accuracy, speeds pro

nity- all while reducing costs.

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