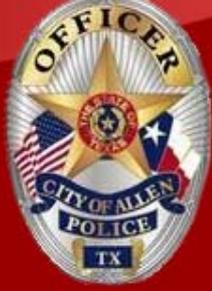


## INTELLIGENCE TASK FORCE

*“Legal Marijuana”*

*What are*

*K2 and Salvia Divinorum?*



# INTELLIGENCE TASK FORCE

## K2

High like Marijuana

- Herbal compounds
- Same effects as THC
- Approx. \$10 a gram

## Salvia Divinorum

Trip like LSD

- A Plant : genus Salvia, better known as sage.
- Hallucinogen
- Price varies due to potency. 10x \$ 10

**Neither are a tobacco product, sold to individuals of any age.**



# INTELLIGENCE TASK FORCE

**K2** : “Spice” “Jdub” “Legal Marijuana”

Made up of herbal substances:

*Canavalia rosea, Clematis vitalba,  
Nelumbo nucifera, Pedicularis grandifolia,  
Heimia salicifolia, Leonurus sibiricus and  
Ledum palustre*

Effects

*High that mocks Marijuana (THC)*

Active Ingredients JWH 018

**(1-pentyl-3-(1-naphthoyl)indole)** is an [analgesic](#) chemical from the naphthoylindole family, which acts as a [cannabinoid](#) agonist at both the CB<sub>1</sub> and CB<sub>2</sub> receptors, with some selectivity for CB<sub>2</sub>.<sup>[1][2][3]</sup> It produces effects in animals very similar to those of [THC](#) itself, but with a longer duration of action.



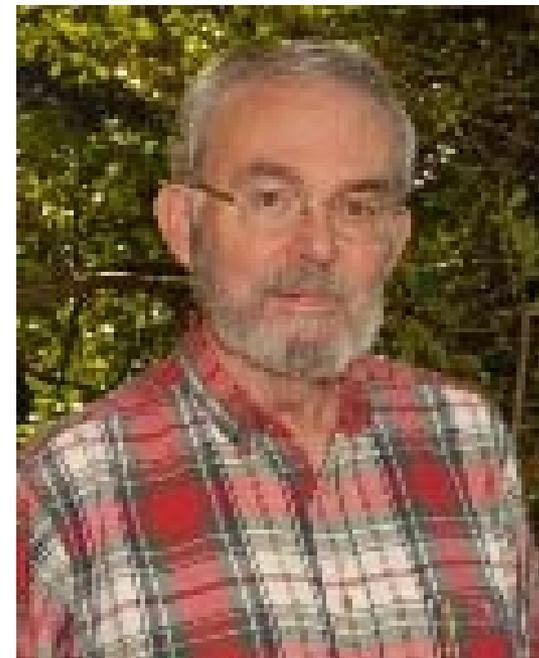


# INTELLIGENCE TASK FORCE

## Creator of JWH-018

The principal emphasis in Dr. Huffman's research group is on the synthesis of analogues and metabolites of delta-9-tetrahydrocannabinol (THC), the principal active component of marijuana. The long term goals of this research are two-fold and include the potential **development of new pharmaceutical products** and an exploration of the geometry of both the cannabinoid brain (CB1) and peripheral (CB2) receptors.

Cannabinoid receptors are found in mammalian brain and spleen tissue, however, the structural details of the active sites are currently unknown. **Marijuana metabolites are used in drug testing and THC analogues show promise for the treatment of nausea, glaucoma and as appetite stimulants**



John W. Huffman



# INTELLIGENCE TASK FORCE

## K2: User's report

**Duration of main effects** : 1 hour

**Main effects** : strong head buzz which spreads to body after 20 minutes, almost Cannabis-like. Slightly trippy, occasionally borderline anxiety and paranoia (which usually fades pretty fast). Main effects soften/weaken into the second hour, becoming more mellow and spacey,...and then buzz finally fades to nothing within three hours.

slight ringing in ears on occasion, feeling vibrations on head and body,

**Side effects** : periodic (short-termed) anxiety/paranoia, redness of eyes, cotton-mouth, feels a faster drop in body temps during cold weather

**After effects** : occasional munchies, but not nearly as often as it occurred during former Cannabis use.



# INTELLIGENCE TASK FORCE

## **K2 Landing people in the Hospital**

"I blacked out and was having seizures," Croft said. "My boyfriend was brave enough to take the step and call the cops. My boyfriend was doing CPR on me before they got there because I wasn't breathing, and then they had to do CPR once they got there. The last thing I remember was actually smoking. That was the last thing I remember until I got to the hospital."

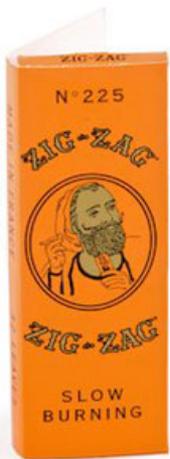
Four Valley Vista High School freshmen were taken to the hospital early Wednesday after police said they suffered negative reactions to an unregulated synthetic drug.

A Surprise police officer found one of the teens curled up in a fetal position near the school's tennis court at about 7:20 a.m. The officer, who is assigned to the high school near Greenway Road and Parkview Place, requested firefighters come to assist



# INTELLIGENCE TASK FORCE

## K2: Smoking Devices





# INTELLIGENCE TASK FORCE

<b>Argentina</b>	JWH-018 is illegal
<b>Austria</b>	JWH-018 is illegal
<b>Canada</b>	JWH-018 falls under item 1 of Schedule 2 of the Controlled Drugs and Substances Act which lists similar synthetic preparations of $\Delta$ -9-THC and other cannabinoids
<b>Chile</b>	JWH-018 is illegal in Chile
<b>France</b>	JWH-018 is illegal in France as of February 24th, 2009
<b>Germany</b>	JWH-018 is illegal in Germany as of January 22nd, 2009
<b>Luxembourg</b>	JWH-018 is illegal in Luxembourg
<b>Netherlands</b>	JWH-018 is illegal in the Netherlands
<b>Poland</b>	JWH-018 is illegal in Poland as of May, 2009
<b>Romania</b>	JWH-018 is illegal in Romania
<b>United Kingdom</b>	JWH-018 Scheduling in the United Kingdom is imminent [20] which will cover a variety of cannabinoids including JWH-018. This is expected to be written into law in early 2010
<b>United States</b>	JWH-018 is not considered a structural/positional isomer of any scheduled compound, including $\Delta$ -9-THC and HU-210 (both Schedule I substances). <b><u>NOT ILLEGAL</u></b>



**Kansas and Kentucky:**  
**Illegal as of April 13, 2010**



# INTELLIGENCE TASK FORCE

*What is  
Salvia Divinorum?*



# INTELLIGENCE TASK FORCE

## Salvia Divinorum

### Salvia Plant

Salvia divinorum belongs to the genus Salvia, better known as sage.

### Effects

*Hallucinogen*

### Active Ingredients *Salvinorin*

*Psychoactive properties have been known to the Mexican Mazatec Indians for ages, it was relatively recent that the plant drew the attention of Western ethnobotanists, and even more recent (the early 90's) that its active component, salvinorin A, was isolated. Salvinorin A turned out to be the strongest natural hallucinogen known to man.*





# INTELLIGENCE TASK FORCE

The main difference between *Salvia divinorum* and other types of sage is the presence of a substance called salvinorin.

*Salvia* extracts generally come in 5x, 10x and 20x concentrations (**concentrations are now available up to 140x**).

This indicates how many times more potent it is than ordinary dried leaves. Warning on website states “be very careful when using extracts: a single hit of extract may be enough at any of these concentrations.”





# INTELLIGENCE TASK FORCE

## Smoking

Smoking is the most common way of consuming salvia. The effects are a lot stronger when smoked, but be careful: they can be overwhelming. *"We strongly advise you to start with a low dose to test your sensitivity for salvia and not to take extracts stronger than 5x for a first experience."*

Salvia is usually smoked in a pipe or water-cooled (bong), but a small sized tobacco pipe will also do. Smoking in a cigarette or joint is also possible, but less effective.

## Effects

- Loss of physical coordination
- Uncontrollable laughter
- Visual alterations or visions
- Experiencing multiple realities
- A contemplative sense of peace
- Sense of profound understanding
- Dream-like veneer over the world
- Sense of total confusion or madness
- Seeing or becoming part of a tunnel
- Appearing to travel to other places and/or times
- Becoming inanimate objects (a wall, stairs, a couch, etc.)
- Viewing patterns or shapes that are tube-like, snake-like, or worm-like
- Loss of sense of awareness as an individual
- Experiencing a "non-Euclidean" geometry
- Sense of flying, floating, twisting, or turning
- Feeling of being immersed in an energy field
- Feeling of being connected to a larger "whole"
- Feeling of being underground or underwater





# INTELLIGENCE TASK FORCE

## In Comparison



- **K2** : Botanical mixture sprayed with pharmaceutical grade synthetic marijuana.
- **Salvia**: Natural plant which contains salvinorin A, hallucinogenic psychoactive

Salvia is sometimes marketed as a “legal cannabis” substitute, although the **effects are in no way similar.**