Smithers AMS LLC
790 Main St
Wareham, MA 02571
License #: IL281355
Phone: 508-295-2550

Certificate of Analysis



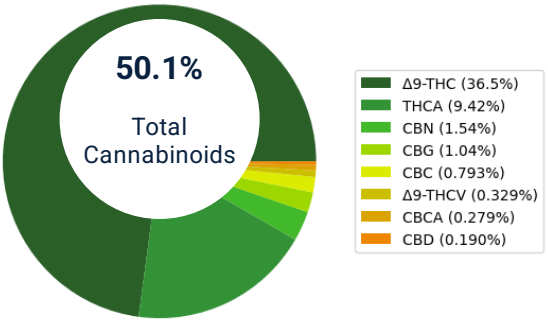
Customer: HAVN Extracts
Address:
125 Southbridge Rd
North Oxford MA 01537
Phone:
License #: MP281627

Sample ID: 54795
Sample Name: Stingers - Distillate Infused Flower Ghost Train Haze
Sample Type: Infused Pre-roll
Received Date: 10/07/2026
Report Date: 10/12/2026
METRC ID: 1A40A03000048A9000027921
METRC Source ID: 1A40A03000048A9000027875
Client Batch ID: S-100526-GTH
Sanitization Method: None
Client Sample Size: 4.4 grams

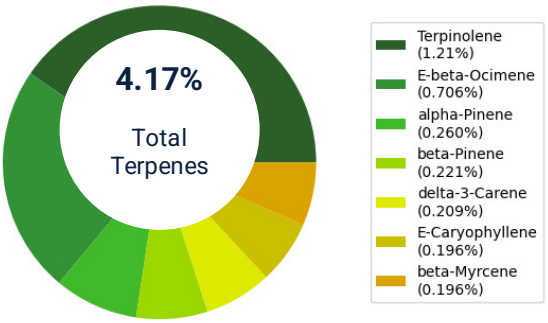
Results Summary

Cannabinoids	TESTED	10/08/2026
Terpenes	TESTED	10/12/2026
Heavy Metals	PASS	10/09/2026
Microbial Impurities	PASS	10/10/2026
Residual Solvents	PASS	10/08/2026
Mycotoxins	PASS	10/09/2026

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Certificate of Analysis

Cannabinoids

Date Started: 10/07/2026
Instrument: UPLC-PDA

Date Completed: 10/08/2026
Method: TP-09.001.06 & TP-09.012.07

Analyst: Lana Rivera (B144852)
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
Δ9-THC	36.5	365	0.156	0.842
THCA	9.42	94.2	0.135	0.842
CBN	1.54	15.4	0.00576	0.0421
CBG	1.04	10.4	0.00366	0.0421
CBC	0.793	7.93	0.00399	0.0337
Δ9-THCV	0.329	3.29	0.00454	0.0337
CBCA	0.279	2.79	0.0108	0.0337
CBD	0.190	1.90	0.00652	0.0842
CBDVA	ND	ND	0.00566	0.0337
CBDV	ND	ND	0.0161	0.0337
CBDA	ND	ND	0.00531	0.0842
CBGA	ND	ND	0.00330	0.0421
Δ8-THCV	ND	ND	0.00821	0.0337
THCVA	ND	ND	0.00358	0.0337
CBNA	ND	ND	0.00444	0.0337
Exo-THC	ND	ND	0.00673	0.0337
Δ8-THC	ND	ND	0.0147	0.0421
CBL	ND	ND	0.00997	0.0337
Total THC	**44.8**	**448**		
Total CBD	**0.190**	**1.90**		
Total Cannabinoids	**50.1**	**501**		

Total THC = Δ9-THC + (THCA x 0.877)
Total CBD = CBD + (CBDA x 0.877)
Total Cannabinoids = Sum of all cannabinoids without THC/CBD corrections.
LOD = Limit of Detection; **LOQ** = Limit of Quantitation; **ND** = Not Detected.

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SMITHERS

Smithers AMS LLC
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Certificate of Analysis

Terpenes

Date Started: 10/07/2026
Instrument: GC-MS

Date Completed: 10/12/2026
Method: TP-09.004.06

Analyst: Lana Rivera (B144852)
Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
Terpinolene	1.21	12.1	0.00103	0.00828
E-beta-Ocimene	0.706	7.06	0.00342	0.00828
alpha-Pinene	0.260	2.60	0.000695	0.00828
beta-Pinene	0.221	2.21	0.00172	0.00828
delta-3-Carene	0.209	2.09	0.00270	0.00828
E-Caryophyllene	0.196	1.96	0.00364	0.00828
beta-Myrcene	0.196	1.96	0.00139	0.00828
D-Limonene	0.182	1.82	0.00175	0.00828
Camphene	0.176	1.76	0.000914	0.00828
gamma-Terpinene	0.163	1.63	0.00187	0.00828
alpha-Terpinene	0.160	1.60	0.00254	0.00828
alpha-Humulene	0.124	1.24	0.00179	0.00828
Eucalyptol	0.121	1.21	0.00251	0.00828
Linalool	0.101	1.01	0.00252	0.00828
alpha-Bisabolol	0.0888	0.888	0.00307	0.00828
Caryophyllene Oxide	0.0602	0.602	0.00187	0.00828
Isopulegol	ND	ND	0.00401	0.00828
Geraniol	ND	ND	0.00258	0.00828
Z-Nerolidol	ND	ND	0.00225	0.00828
E-Nerolidol	ND	ND	0.00189	0.00828
Guaiol	ND	ND	0.00180	0.00828
Z-beta-Ocimene	ND	ND	0.00335	0.00828
Total Terpenes	**4.17**	**41.7**		

Heavy Metals

PASS

Date Started: 10/07/2026
Instrument: ICP-MS

Date Completed: 10/09/2026
Method: TP-09.007.04

Analyst: Meagan Mattos (B154555)
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	<LOQ	11.3	76.5	200	Pass
Cadmium	ND	67.9	76.5	200	Pass
Lead	ND	6.24	76.5	500	Pass
Mercury	ND	5.45	38.2	100	Pass

Microbial Impurities

PASS

Date Started: 10/07/2026
Instrument: TEMPO & Gene-Up

Date Completed: 10/10/2026
Method: TP-09.010.03 & TP-09.011.04

Analyst: Sydney Murphy (B168056)
Deviation: N/A

Microbials	Result (CFU/g)	Limit (CFU/g)	Status
Coliforms	ND	100	Pass
Bile-Tolerant Gram-Negative Bacteria	ND	100	Pass
Yeast & Mold	ND	1000	Pass
Aerobic Bacteria	ND	10000	Pass
E.coli	ND		Pass
Salmonella	ND		Pass

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Certificate of Analysis

Residual Solvents

PASS

Date Started: 10/07/2026
Instrument: HS-GC-MS

Date Completed: 10/08/2026
Method: TP-09.005.05

Analyst: Lana Rivera (B144852)
Deviation: N/A

Residual Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Limit (ppm)	Status
n-Propane	ND	0.400	1.57	12.0	Pass
n-Butane	ND	0.172	1.57	12.0	Pass
Methanol	ND	37.4	94.5	3000	Pass
Ethylene Oxide	ND	0.629	1.26		Pass
n-Pentane	ND	25.4	94.5	5000	Pass
Ethanol	ND	17.5	94.5	5000	Pass
Ethyl Ether	ND	23.9	94.5	5000	Pass
Acetone	ND	17.1	94.5	5000	Pass
Isopropyl Alcohol	ND	21.3	94.5	5000	Pass
Acetonitrile	ND	13.3	94.5	410	Pass
Methylene Chloride	ND	0.629	1.26	600	Pass
n-Hexane	ND	25.7	94.5	290	Pass
Ethyl Acetate	ND	14.8	94.5	5000	Pass
Chloroform	ND	0.629	1.26	60.0	Pass
1,2-Dichloroethane	ND	0.629	1.26	1870	Pass
Benzene	ND	0.629	1.26		Pass
n-Heptane	ND	27.5	94.5	5000	Pass
Trichloroethylene	ND	0.629	1.26	80.0	Pass
Toluene	ND	10.9	94.5	890	Pass
Total Xylenes	**ND**	**18.6**	**47.2**	**2170**	**Pass**

Mycotoxins

PASS

Date Started: 10/08/2026
Instrument: LC-MS/MS

Date Completed: 10/09/2026
Method: TP-09.009.06

Analyst: Lana Rivera (B144852)
Deviation: N/A

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	0.821	2.71		
Aflatoxin B2	ND	0.821	2.71		
Aflatoxin G1	ND	0.821	2.71		
Aflatoxin G2	ND	0.821	2.71		
Ochratoxin A	ND	0.821	2.71		
Total Mycotoxins	**ND**	**0.821**	**2.71**	**20.0**	**Pass**

Yuemin Wang Kovaleff, Lab Manager
10/12/2026

END OF REPORT

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