eurofins | SN Special Analysis West

8 August 2022

Job Number:	26114b
PO Number:	Verbal

Anagen Bio Solutions, Inc.

REPORT OF ANALYSIS

One packet of white powder labeled "KX-826 KX1001" was received on 19 July 2022. Given that a reference standard was not available, portions of the sample were analyzed using four complimentary test methods.

The sample was first analyzed using Fourier transform infrared spectroscopy (FTIR) and the spectrum was found to share key spectral features with a molecule with a related molecular structure, enzalutamide. The powder was then tested using gas chromatography with mass spectroscopic detection (GC-MS) and key ion masses were consistent with those expected for KX-826. Scanning electron microscopy with energy dispersive x-ray spectroscopy (SEM-EDX) was next used to verify the presence of nitrogen, sulfur and fluorine. Finally, the sample was analyzed using proton nuclear magnetic resonance (^{1}H NMR) spectroscopy and the spectrum was consistent with a simulated spectrum, predicted using nmrdb.org's NMR spectrum simulation tool. The agreement and consistency of the data across the methods allowed for high confidence that the material was appropriately labeled.

An additional portion of the powder was analyzed for purity using high-performance liquid chromatography (HPLC). Based on ultraviolet (UV) detection at 195 nm, the chromatographic purity of the sample was found to be 99.5%.

The spectra and chromatograms are enclosed for your reference.

Chris French, PhD
Principal Scientist

26114

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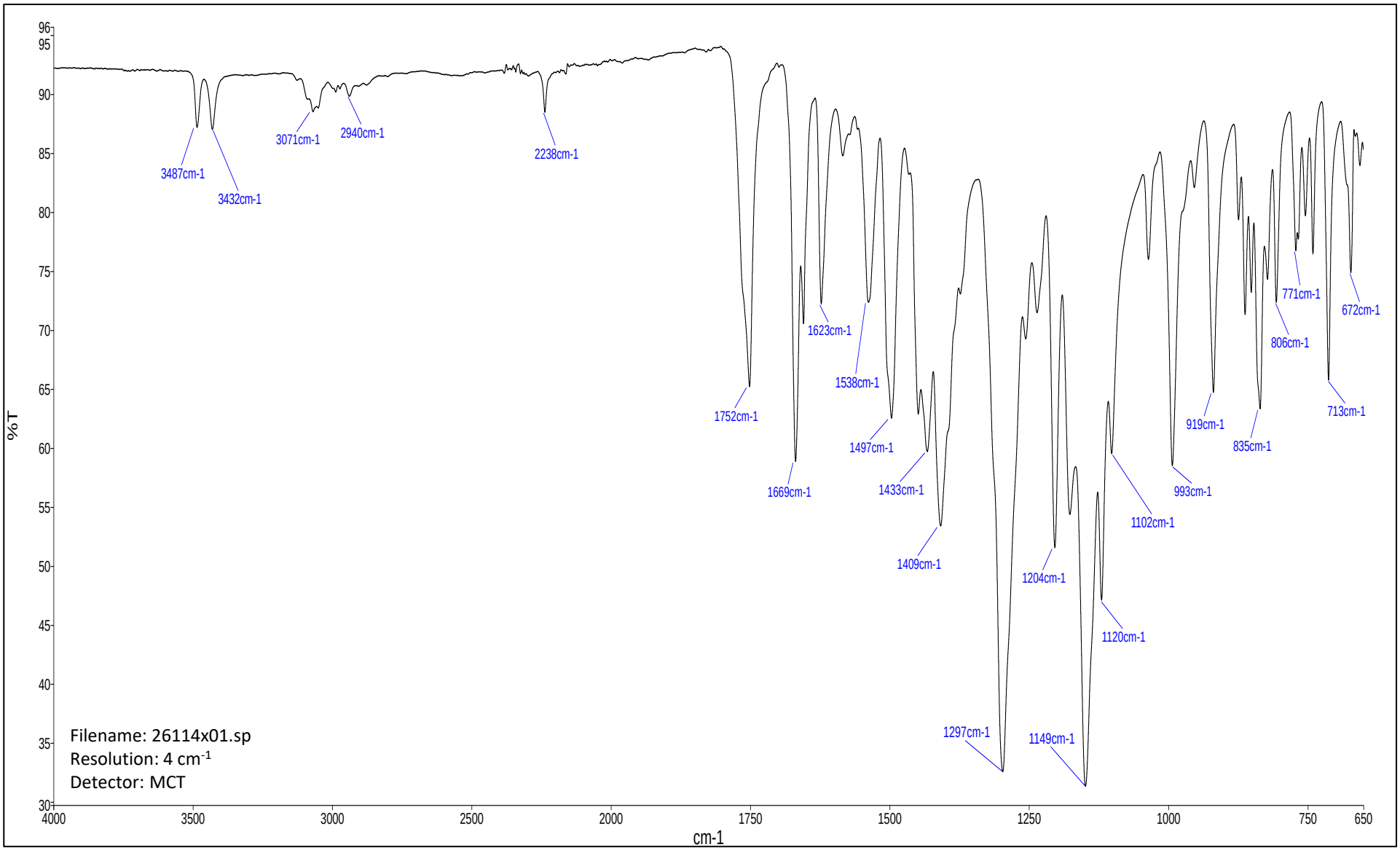
Sample: KX-826 Lot KX1001 – FTIR Analysis
Date: 07/22/2022
Analyst: Chris French

Client:
Anagen Bio Solutions, Inc.



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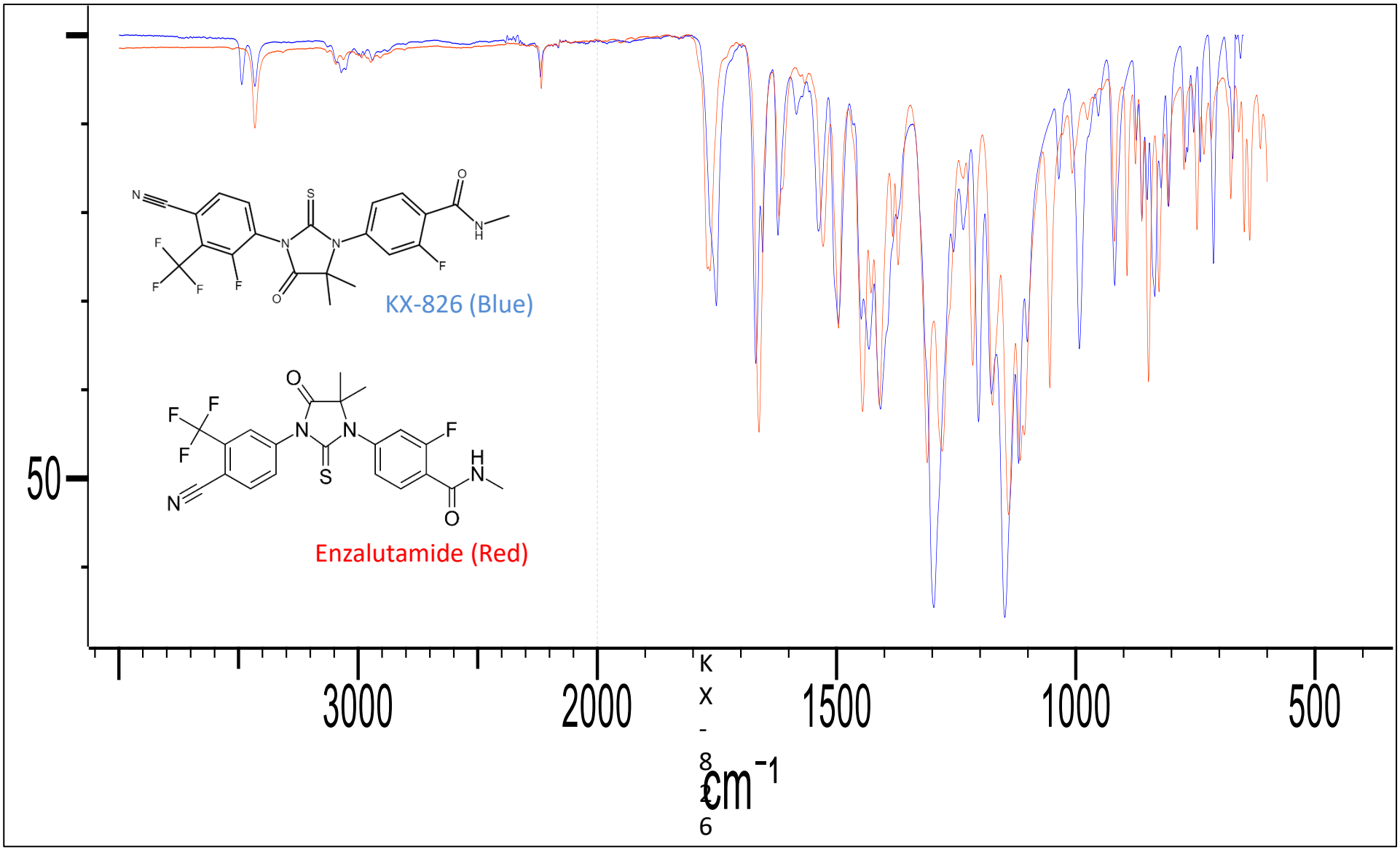
Sample: KX-826 Lot KX1001 vs. Enzalutamide
Date: 07/22/2022
Analyst: Chris French

Client:
Anagen Bio Solutions, Inc.



26114

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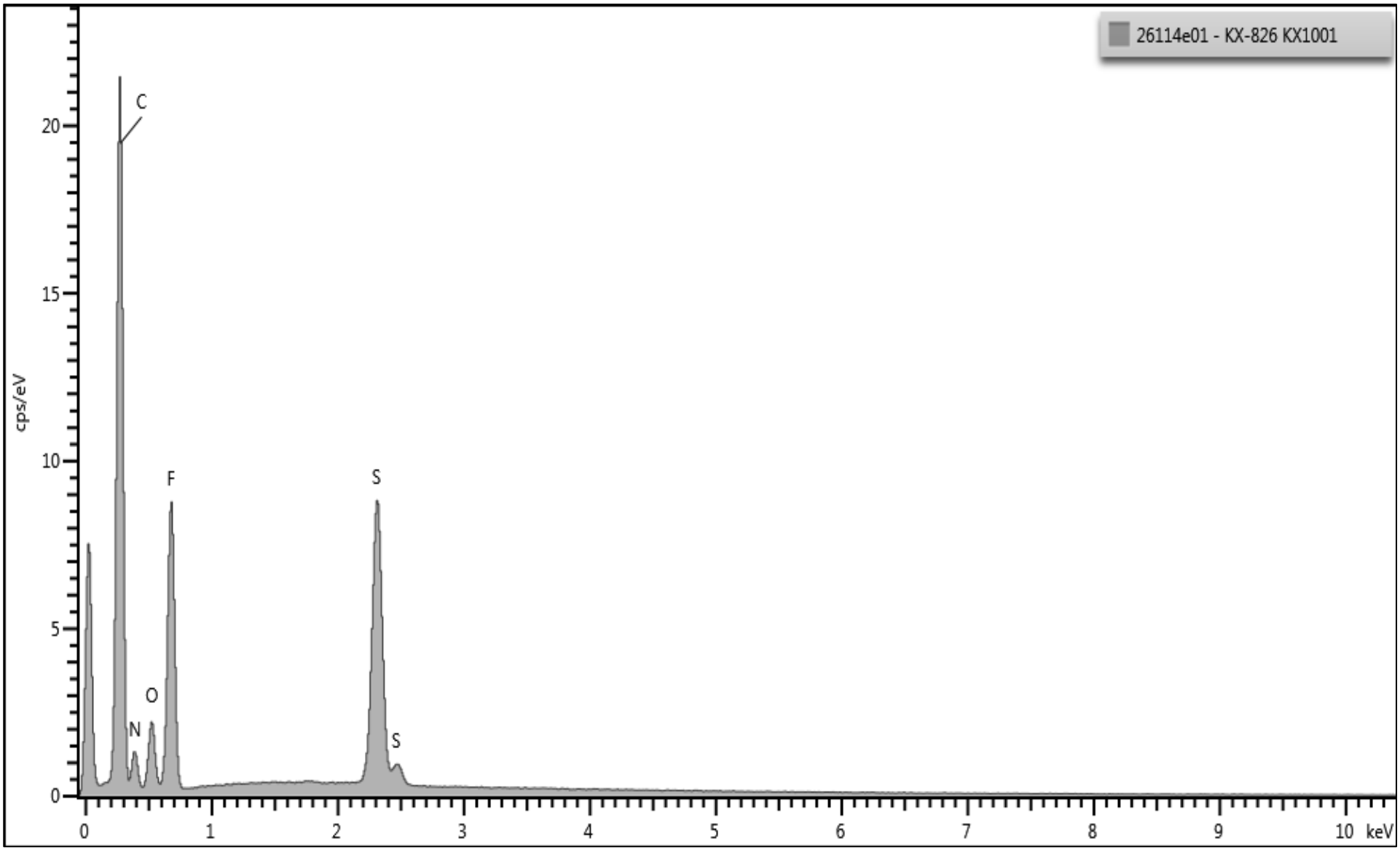
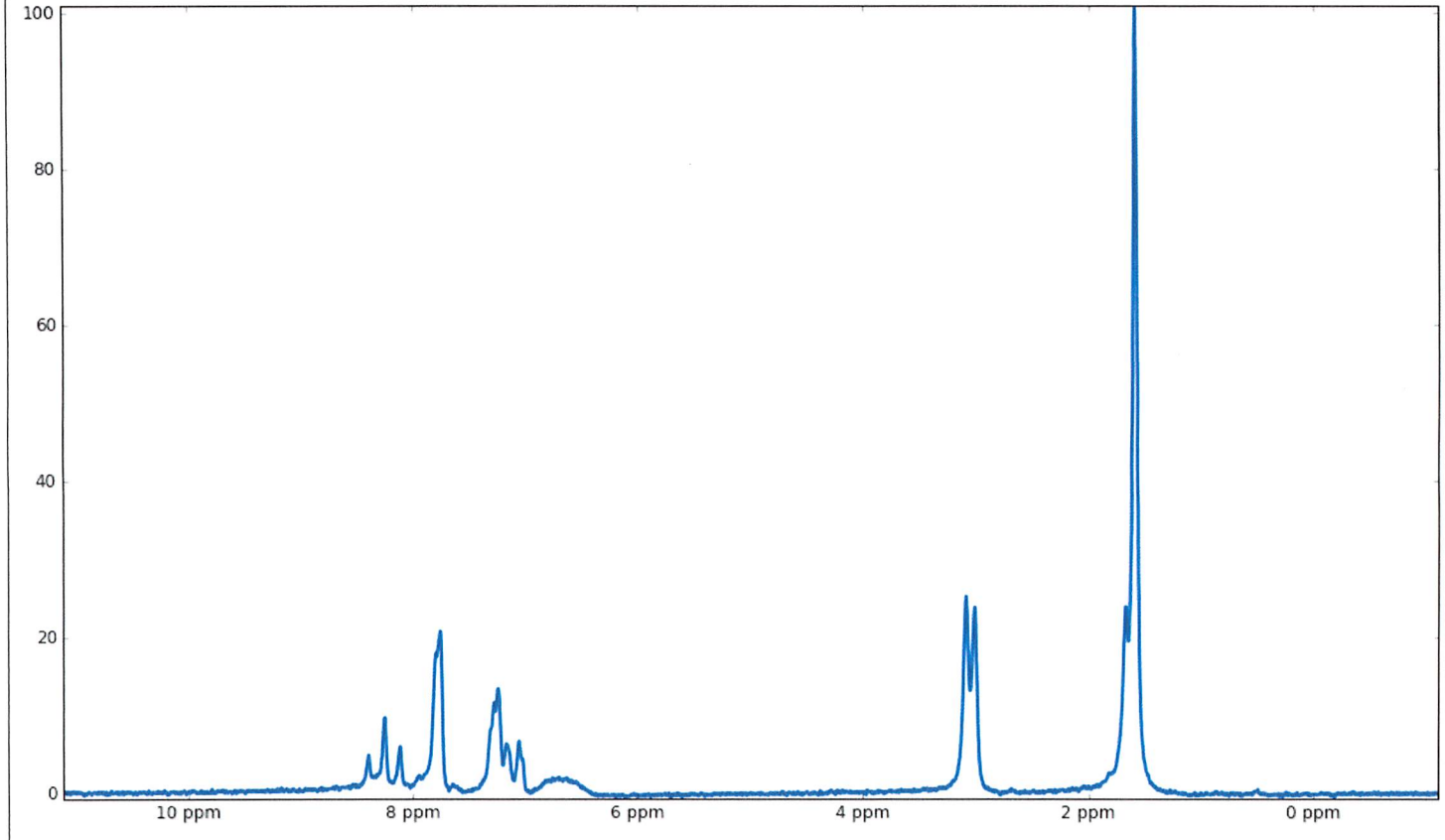
Sample: KX-826 Lot KX1001 – EDX Analysis
Date: 08/05/2022
Analyst: Chris French

Client:
Anagen Bio Solutions, Inc.



kx-826

2022-08-05



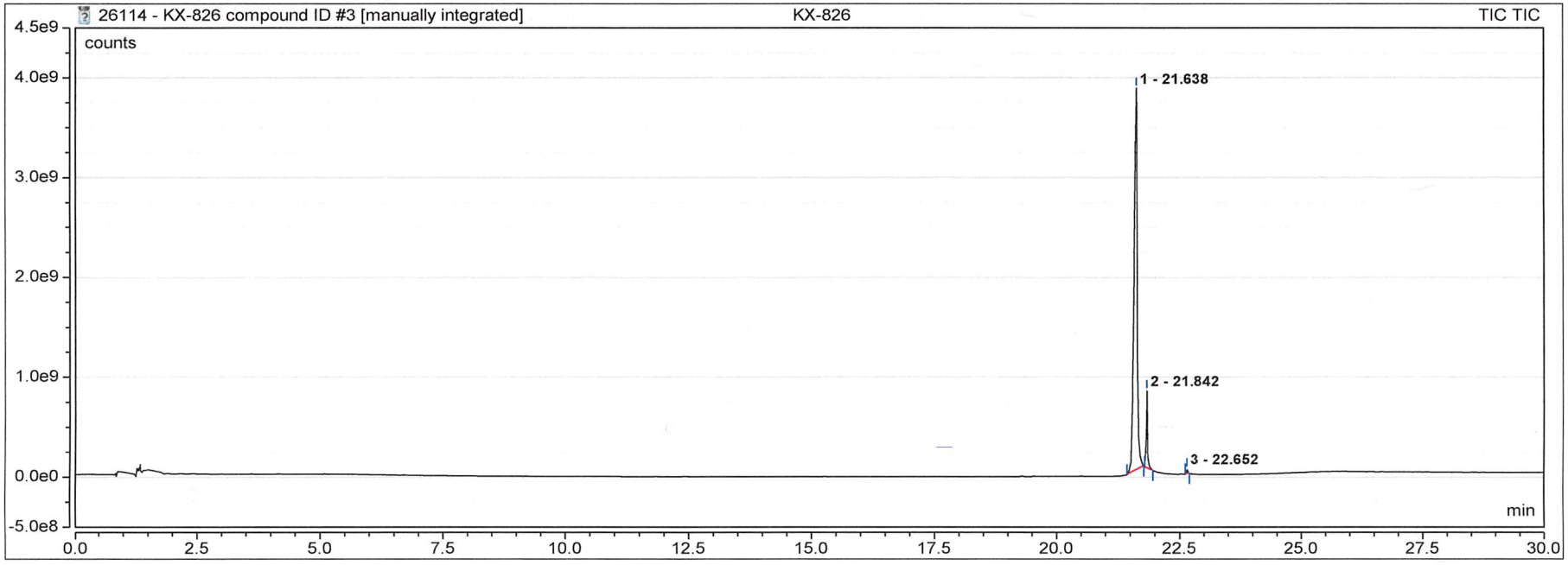
^{1}H NMR Spectrum

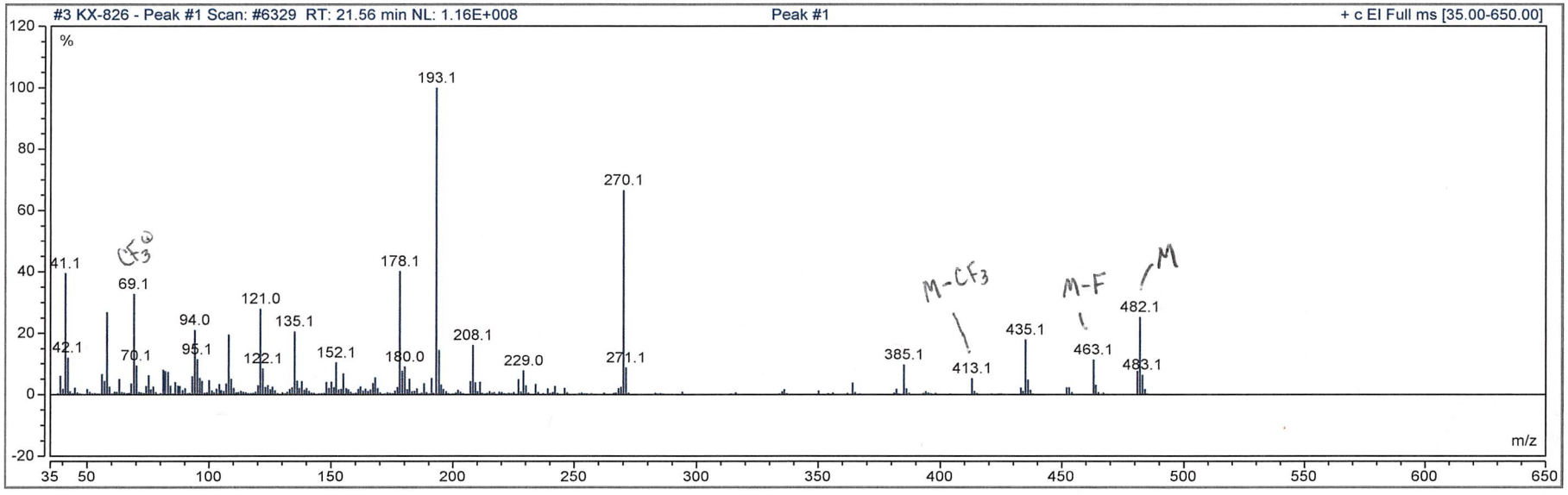
Acquisition and Processing Parameters

Filename:
26114-KX-826
Acquisition Time:
2022/08/05 10:51:27
Nucleus: 1H
Solvent: Chloroform-d
TX Frequency: 60.11 MHz
Scans: 64
Time Per Scan: 6.5 sec
Spectral Width: 12 ppm
Dwell Time: 0.29 uS
Digital Resolution: 0.02 Hz
NPoints (Complex): 4096
Zero Filling: 7
Apodization: 0.10
Receiver Gain: 44.2400016785
Pulse Width: 16.3 us

KX-826 – GC-MS Analysis

Chromatogram





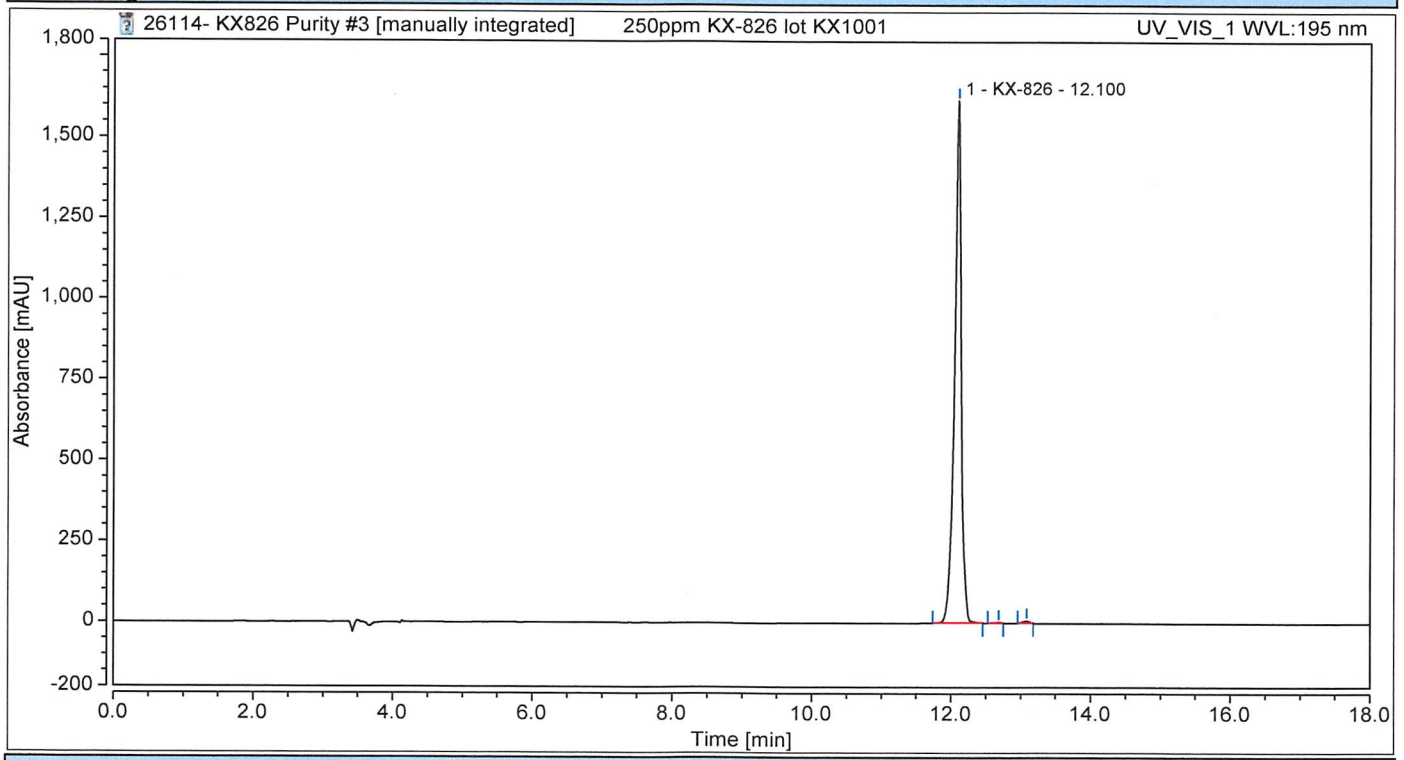
KX-826 – HPLC Analysis

Chromatogram and Results

Injection Details

Injection Name:	**250ppm KX-826 lot KX1001**	*Run Time (min):*	**20.00**
Vial Number:	**RB2**	*Injection Volume:*	**10.00**
Injection Type:	**Unknown**	*Channel:*	**UV_VIS_1**
Calibration Level:		*Wavelength:*	**195**
Instrument Method:	**AC 250mm Max RP 20min Purity Method**	*Bandwidth:*	**10**
Processing Method:	**Processing Method**	*Dilution Factor:*	**1.0000**
Injection Date/Time:	**26/Jul/22 15:17**	*Sample Weight:*	**1.0000**

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount
1	KX-826	12.100	179.095	1618.053	99.55	99.45	n.a.
2		12.677	0.150	1.637	0.08	0.10	n.a.
3		13.077	0.663	7.260	0.37	0.45	n.a.
Total:			**179.908**	**1626.950**	**100.00**	**100.00**	