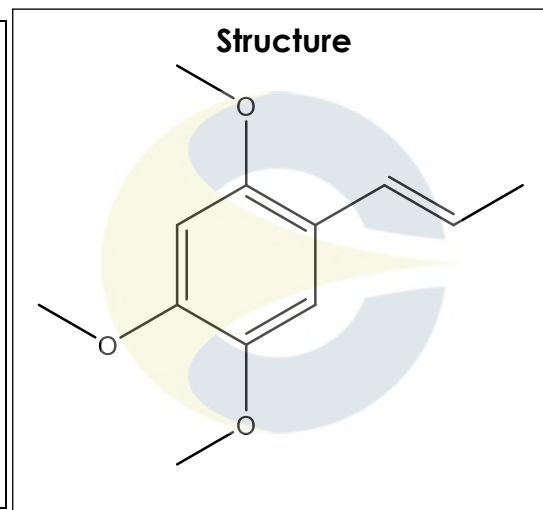


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PRODUCT NAME	alpha-Asarone
PART NUMBER	00011016
STANDARD TYPE	Primary (P)
LOT NUMBER	00011016-5604
REPORT NUMBER	CDXA-RSS-5241-02
SAMPLE NUMBER	CDXA-12-5604
DATE OF SAMPLE	08/29/2012
DATE OF RE-EVALUATION	11/09/2016 (1 st); 12/30/2020(2 nd)
DATE OF REPORT	01/25/2021



CHEMICAL NAMES	(E)-1,2,4-Trimethoxy-5-(1-propenyl)benzene; Asaron; trans-Isoasarone
CHEMICAL FORMULA	C ₁₂ H ₁₆ O ₃
MOLECULAR WEIGHT (MW)	208.25
CHEMICAL FAMILY	Phenols
CAS NUMBER	[2883-98-9]
EC#(EINECS)	220-743-6
RTECS	DC2975000

ANALYTICAL RESULTS

TEST	METHOD	SPECIFICATION	RESULT
Adjusted Purity	NA	≥ 85%	99.3%
HPLC	0.700.10.2.METH22	≥ 90%	99.5%
NMR	99.1-CD-1.0-000122	Conforms to structure	Conforms to structure
Mass Spectrum	Direct Infusion, ESI (+)	Conforms	Conforms
Residual Solvent*	99.1-CD-6.0-0000115	NA	0.2% - DCM
Water	0.700.12.37	NA	ND
Appearance	NA	NA	White powder

ADJUSTED PURITY: 99.3% IS BASED ON (100 - 0.2 SOLVENTS - 0.0 WATER) X 99.5% HPLC

STORAGE CONDITIONS

STORAGE	+4 °C in a dry place.
EXPIRATION DATE	12/2025 under the above conditions.

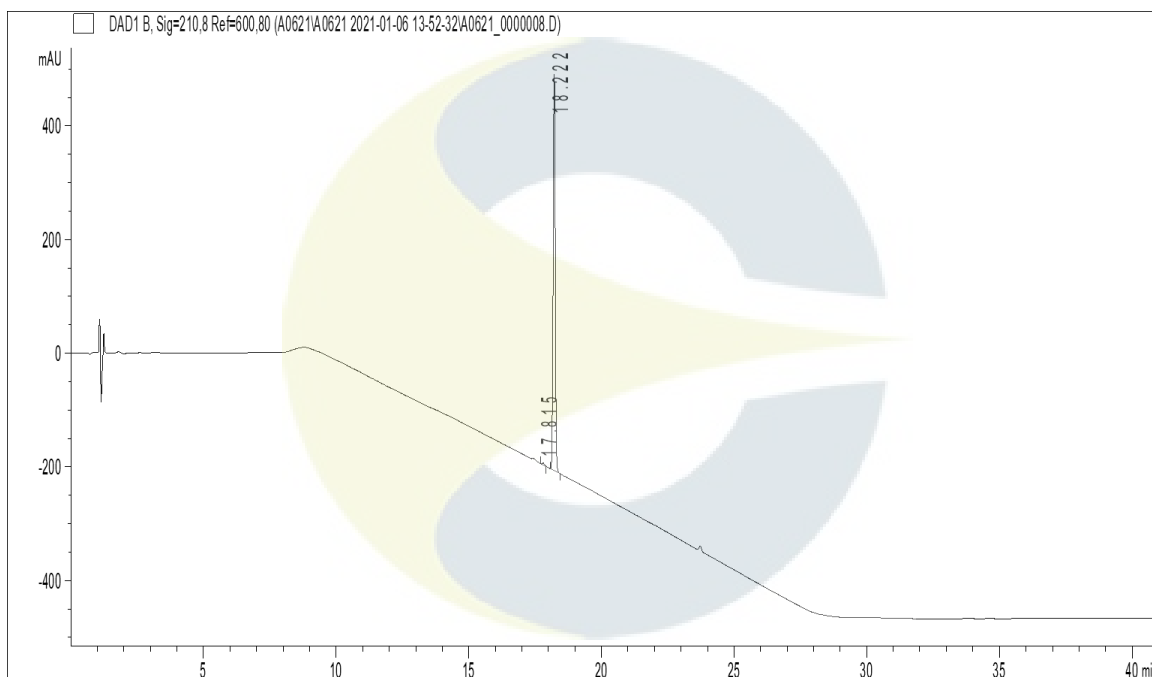
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ANALYTICAL CONDITIONS

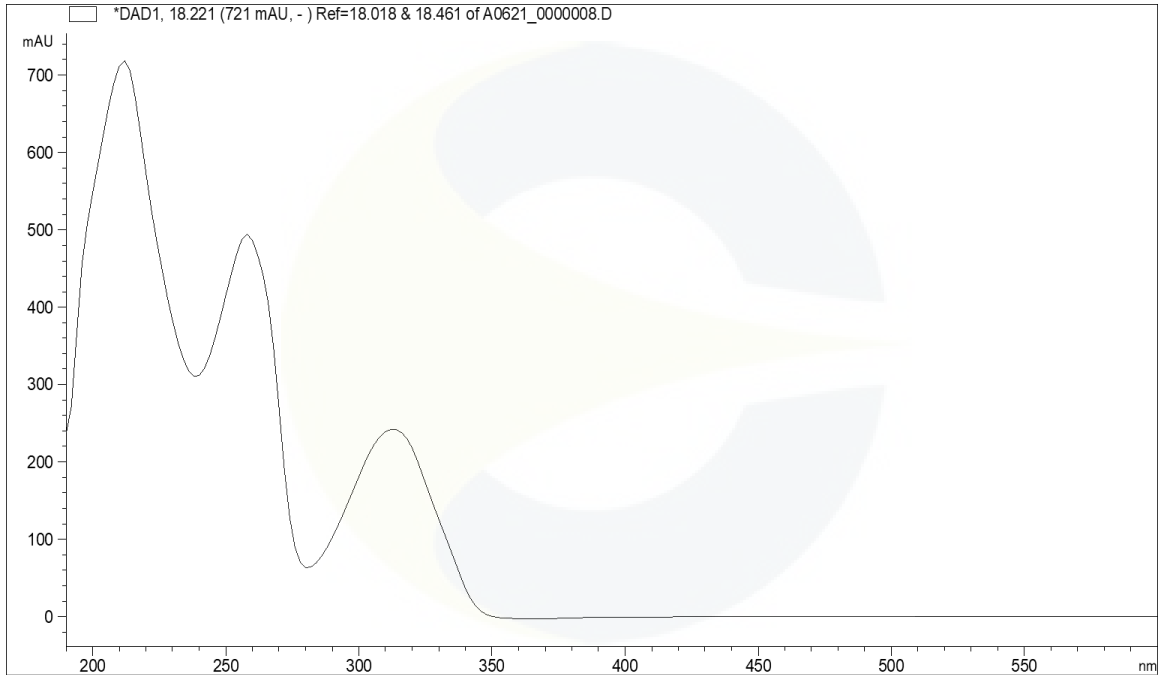
INSTRUMENT	AGILENT 1260 HPLC UV-VIS (DAD); AGILENT 6510 QTOF
COLUMN	Phenomenex Luna C18(2) 150 x 2.00 mm, 5 µm particle size
MOBILE PHASE	A - 0.1% Trifluoroacetic acid in Ultrapure water, B - Acetonitrile; Isocratic 5% B for 5 minutes, then increasing to 95% B over 20 minutes. Hold at 95% B for 15 minutes.
COLUMN TEMP.	60 °C
FLOW RATE	0.4 mL/minute
INJECTION VOL.	0.2 µL
INJECTION CONC.	1.2 mg/mL in Methanol
DETECTION	210 ± 4 nm

HPLC CHROMATOGRAM OF ALPHA-ASARONE (CDXA-12-5604)


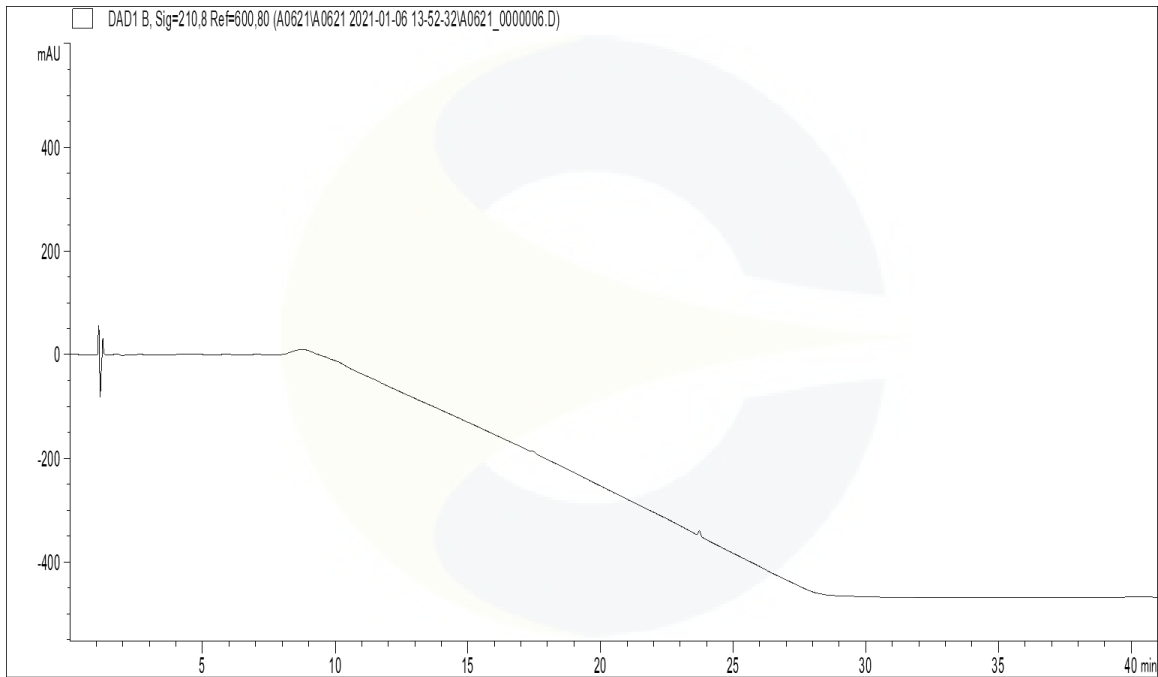
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UV SPECTRUM AT RT 18.2 MINUTES



HPLC CHROMATOGRAM OF DILUENT BLANK

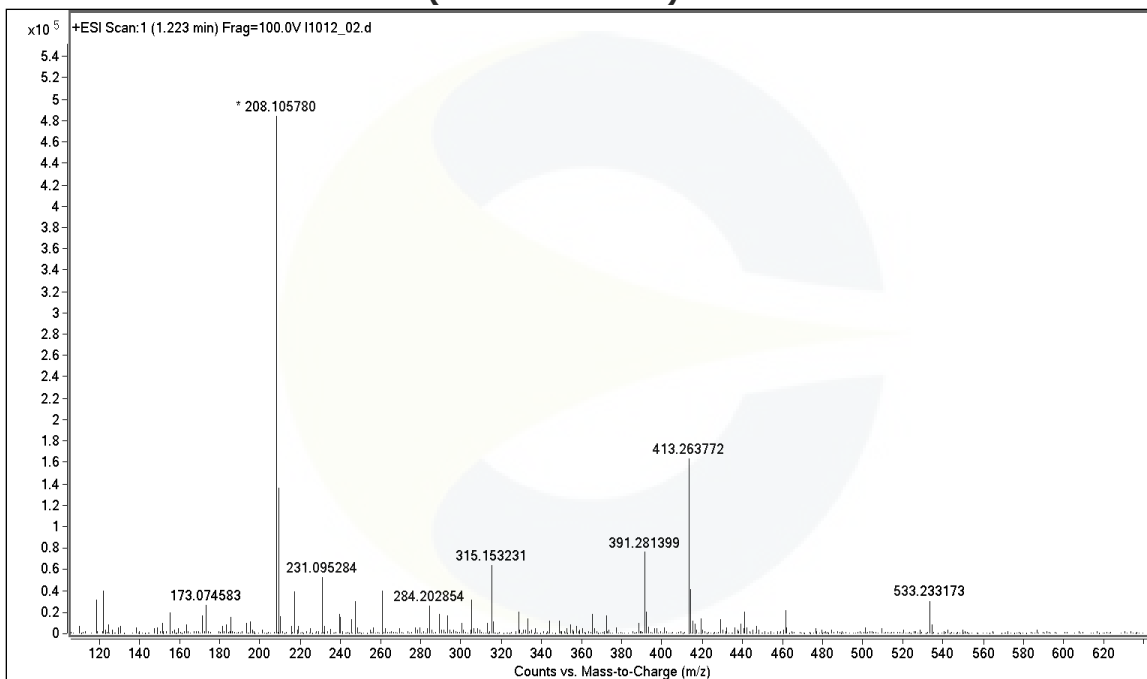


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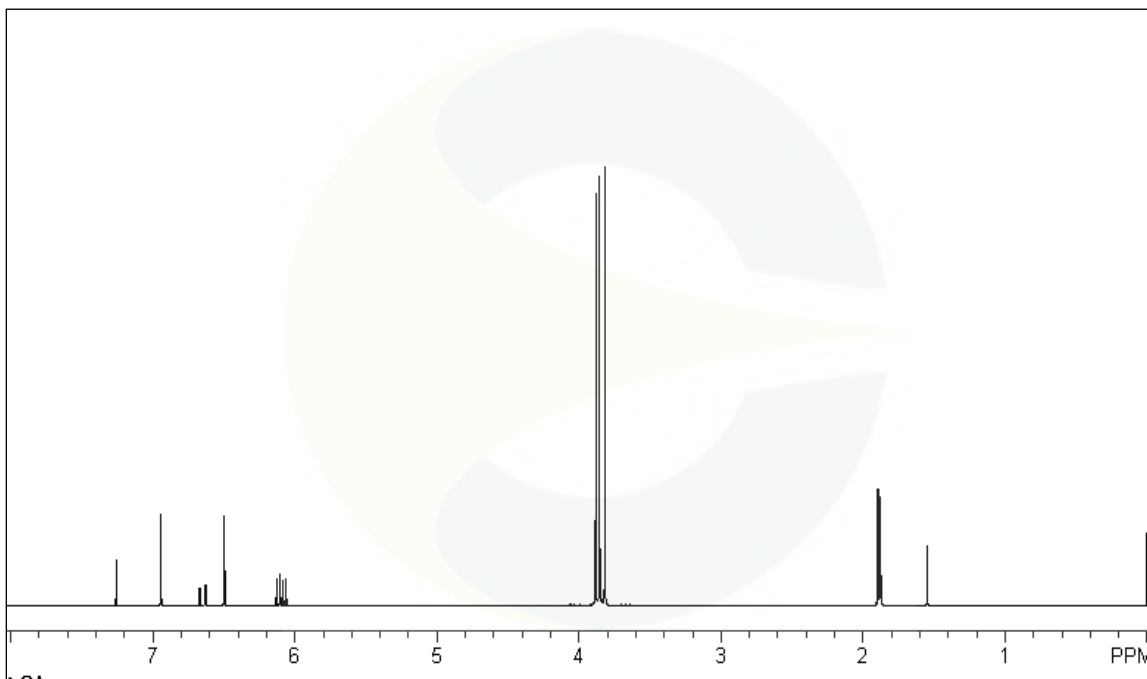
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MASS SPECTRUM OF ALPHA-ASARONE (CDXA-12-5604)

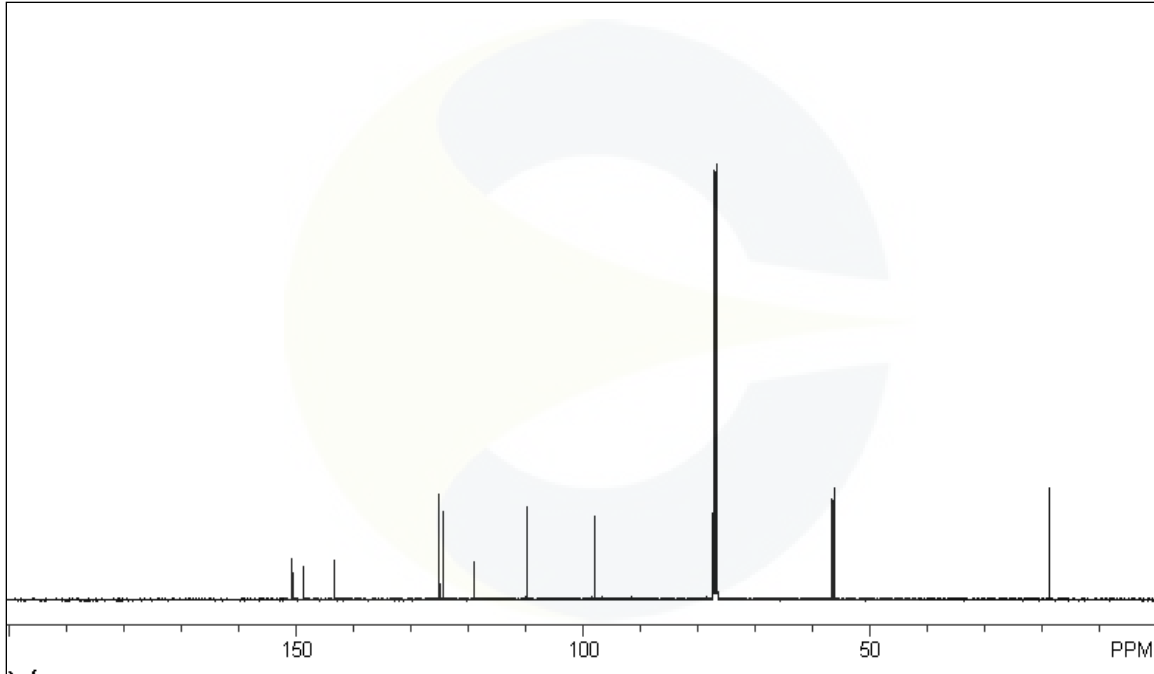


¹H-NMR SPECTRUM OF ALPHA-ASARONE (CDXA-12-5604) IN CDCl₃



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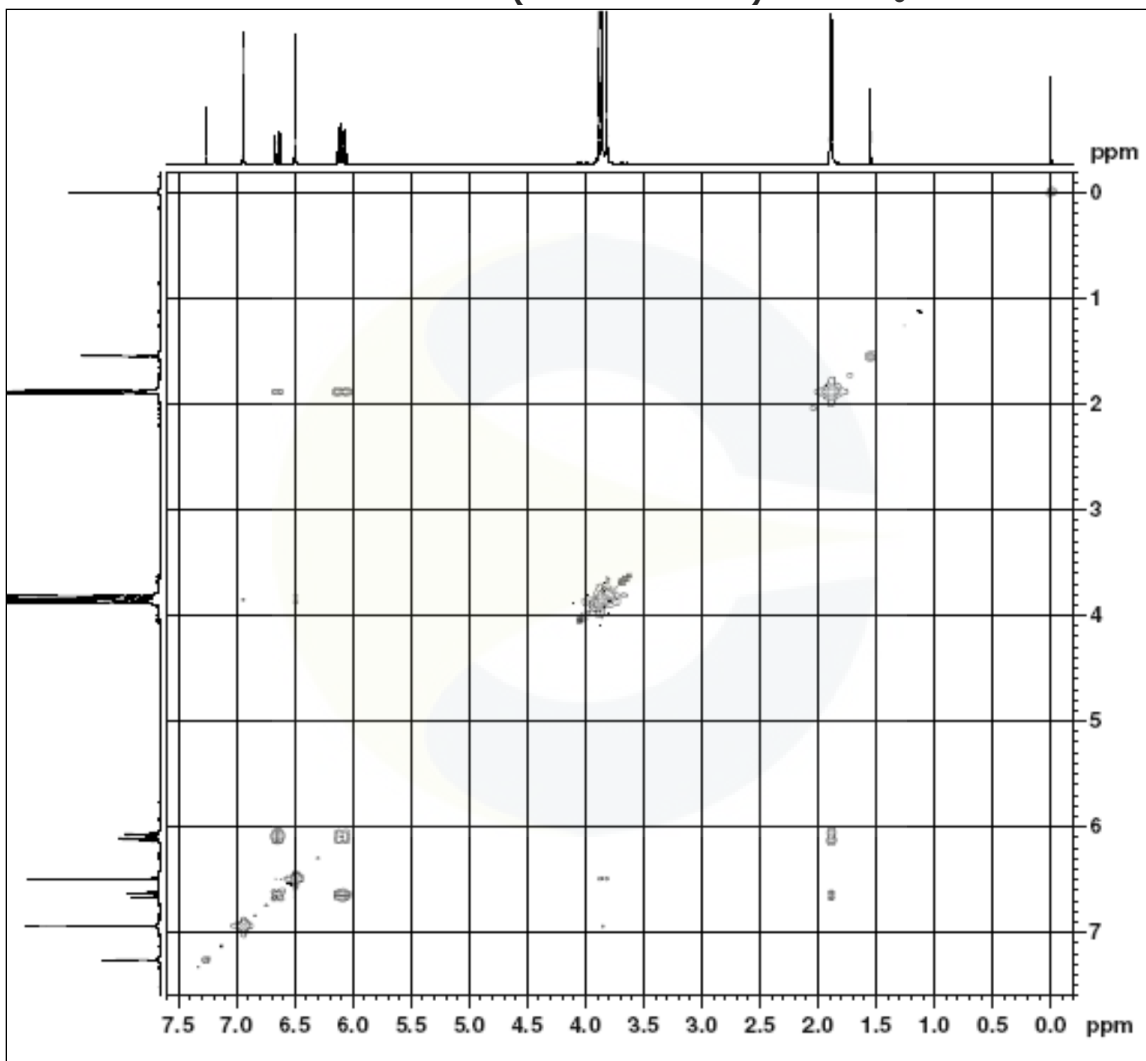
¹³C-NMR SPECTRUM OF ALPHA-ASARONE (CDXA-12-5604) IN CDCl₃



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COSY-NMR SPECTRUM OF ALPHA-ASARONE (CDXA-12-5604) IN CDCl₃

REVISION HISTORY

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	10/26/2012	New report
01	12/05/2016	Passed re-evaluation by HPLC, KF. Updated expiration date and melting point.
02	01/25/2021	Passed re-evaluation by HPLC, KF. Updated structure, purity, expiration date, analytical conditions, chromatograms, UV spectrum, and removed melting point.

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