Shay & Company
NATURAL INGREDIENT SUPPLIER

GC/MS Report

GC3

Item	Lot
98401-21	**13630**
Juniperus virginiana Cedarwood (Rectified) EO virginiana	
Date	Analyst
9/2/2025	**J. S**

Sample Information

Sample Name: Cedarwood Virginian
Botanical Name: Juniperus virginiana
Lot Number: 13630
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: USA
Analysis Date: 9/2/2025
Manufacture Date: September 2025

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra
Injection Type: Split
Split Ratio: 24.4

Column Type: ZB-5
Injection Volume: 0.1 µL
Temperature Program: 2C/min

Physical Data

ANALYSIS	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	-26.36
Refractive Index @20°C	USP[831]	1.50552
Specific Gravity @20°C	USP[841]	0.95794

Components

Ret. Time	Component	Ret. Idx.	Conc. %	
12.438	alpha-Thujene	924	0.02%	
12.863	alpha-Pinene	931	0.1%	
18.264	para-Cymene	1023	0.01%	
18.568	Limonene	1027	0.01%	IFRA
22.309	Terpinolene	1084	0.01%	
28.312	Borneol	1171	0.02%	
30.730	Verbenone	1205	0.01%	
36.946	Unidentified	1296	0.07%	
39.758	Unidentified	1339	0.01%	
40.447	Unidentified	1349	0.05%	
40.651	Unidentified	1352	0.01%	
42.513	2-epi-alpha-Funebrene	1380	0.59%	
42.720	Unidentified	1384	0.06%	
42.801	alpha-Duprezianene	1385	0.83%	
42.905	Unidentified	1386	0.07%	
43.247	Isolongifolene	1392	0.17%	
43.431	Unidentified	1394	0.02%	
43.700	beta-Longipinene	1398	0.18%	
43.826	alpha-Funebrene	1400	0.18%	
44.047	Cedrene isomer	1404	0.1%	
44.330	Acora-3,7(14)-diene	1408	0.02%	
44.760	alpha-Cedrene	1415	27.34%	IFRA
44.916	beta-Caryophyllene	1418	1.27%	
45.155	Unidentified	1422	0.7%	
45.220	beta-Cedrene	1423	4.98%	IFRA
45.458	Unidentified	1426	0.03%	
45.628	(+)-epi-Bicyclosesquiphellandrene	1429	0.05%	
45.935	cis-Thujopsene	1434	16.26%	
46.042	Isobazzanene	1436	0.12%	
46.200	Unidentified	1438	0.01%	
46.575	Unidentified	1444	0.03%	
46.784	beta-Barbatene	1448	0.1%	
46.925	Prezizaene	1450	0.27%	
47.005	Unidentified	1451	0.06%	
47.165	alpha-Humulene	1454	0.03%	
47.250	Unidentified	1455	0.04%	
47.437	Unidentified	1458	0.12%	
47.672	alpha-Acoradiene	1462	0.16%	
47.818	beta-Acoradiene	1464	0.36%	
48.301	10-epi-beta-Acoradiene	1472	0.33%	

Components

Ret. Time	Component	Ret. Idx.	Conc. %
48.555	Unidentified	1476	0.17%
48.769	beta-Chamigrene	1479	1.05%
48.900	Unidentified	1481	0.04%
48.985	Unidentified	1483	0.02%
49.244	beta-Selinene	1487	0.04%
49.449	Valencene	1490	0.04%
49.589	beta-Alaskene	1492	0.17%
49.675	Unidentified	1494	0.05%
49.913	beta-Himachalene	1498	0.15%
50.131	alpha-Cuprenene	1501	1.6%
50.192	Pseudowiddrene	1502	1.32%
50.304	alpha-Chamigrene	1504	0.63%
50.438	Cuparene	1506	1.04%
50.582	alpha-Alaskene	1509	0.24%
50.645	Unidentified	1510	0.13%
50.880	Unidentified	1514	0.03%
50.995	Unidentified	1516	0.33%
51.255	Unidentified	1520	0.22%
51.506	trans-gamma-Bisabolene	1524	0.06%
51.991	gamma-Cuprenene	1532	1.51%
52.380	Unidentified	1539	0.24%
52.749	delta-Cuprenene	1545	0.22%
52.800	Unidentified	1546	0.14%
53.183	Unidentified	1552	0.01%
53.545	Unidentified	1558	0.02%
54.445	Unidentified	1574	0.12%
54.574	Unidentified	1576	0.08%
54.790	Unidentified	1579	0.02%
54.901	Unidentified	1581	0.06%
55.356	Unidentified	1589	0.01%
55.660	Unidentified	1594	0.06%
55.716	Funebrol	1595	0.17%
55.997	Unidentified	1600	0.03%
56.340	Widdrol	1606	4.39%
56.450	Cedrol	1608	22.86%
56.690	Unidentified	1612	0.08%
56.920	Unidentified	1616	0.05%
57.197	Epicedrol	1621	0.44%
57.581	2-epi-alpha-Cedren-3-one	1628	0.17%
57.747	Unidentified	1631	0.08%

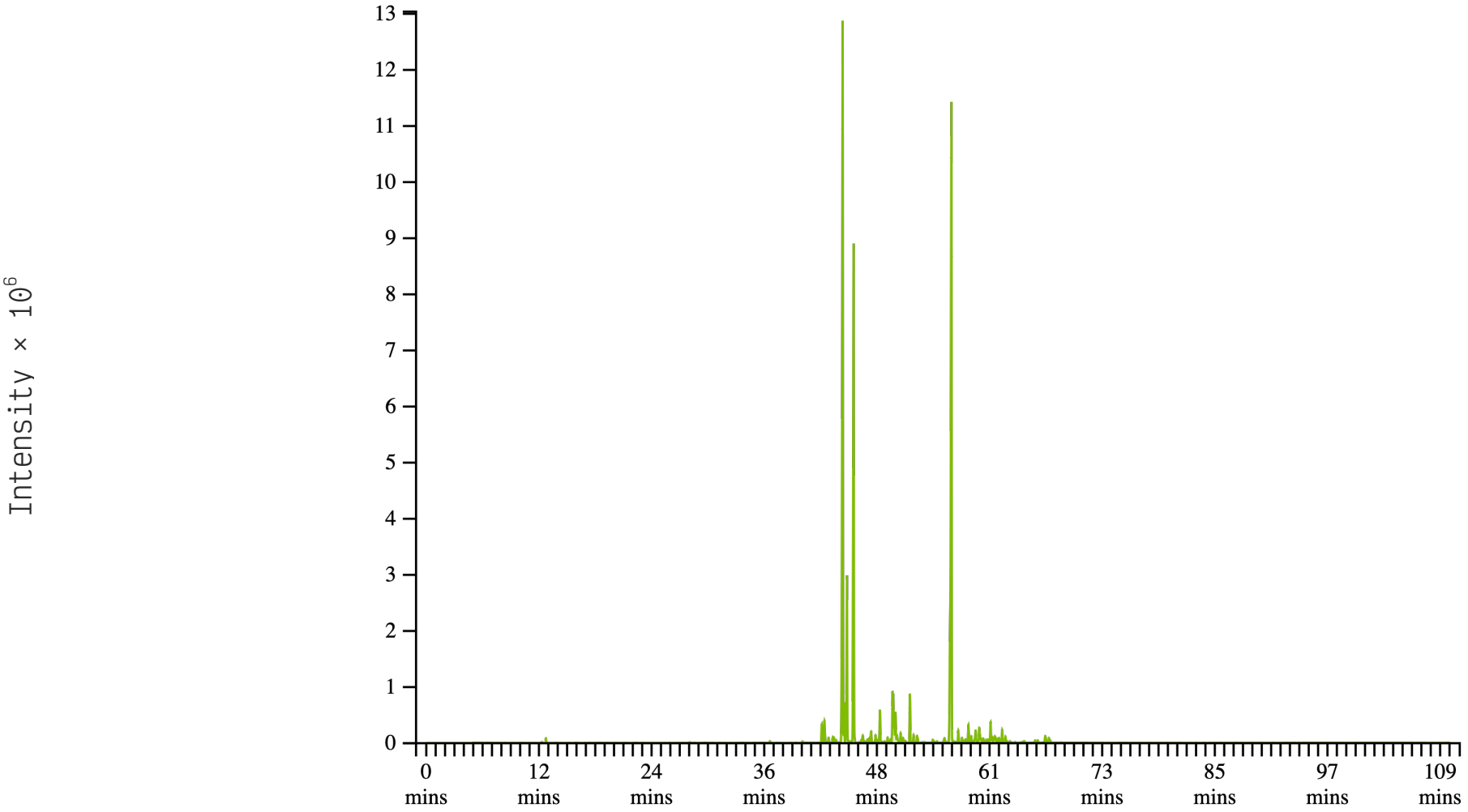
Components

Ret. Time	Component	Ret. Idx.	Conc. %	
57.859	Unidentified	1633	0.06%	
57.973	beta-Acorenol	1635	0.13%	
58.287	Unidentified	1640	0.61%	
58.505	Unidentified	1644	0.06%	
58.577	Unidentified	1645	0.22%	
58.975	Unidentified	1652	0.15%	
59.054	Unidentified	1654	0.53%	
59.447	Unidentified	1661	0.5%	
59.505	Unidentified	1662	0.14%	
59.616	Unidentified	1664	0.18%	
59.865	Unidentified	1668	0.24%	
59.990	Unidentified	1670	0.04%	
60.195	Junicedranone	1674	0.11%	
60.393	Unidentified	1678	0.11%	
60.480	Unidentified	1679	0.06%	
60.667	alpha-Bisabolol	1682	0.75%	IFRA
60.867	Khusian-2-ol	1686	0.23%	
61.011	Unidentified	1689	0.12%	
61.121	Unidentified	1690	0.2%	
61.160	Unidentified	1691	0.18%	
61.373	Unidentified	1695	0.14%	
61.589	Unidentified	1699	0.21%	
61.914	Unidentified	1705	0.44%	
62.255	Thujopsenal	1711	0.24%	
62.390	Unidentified	1714	0.08%	
62.740	Unidentified	1720	0.07%	
63.262	Unidentified	1730	0.03%	
63.988	Unidentified	1743	0.04%	
64.169	Unidentified	1747	0.06%	
64.286	Unidentified	1749	0.07%	
65.070	Unidentified	1764	0.01%	
65.457	Unidentified	1771	0.09%	
65.736	Unidentified	1776	0.13%	
66.370	Unidentified	1788	0.03%	
66.537	Unidentified	1791	0.23%	
66.585	Unidentified	1792	0.15%	
66.793	Unidentified	1796	0.1%	
66.936	Nootkatone	1798	0.19%	IFRA
67.099	Unidentified	1801	0.09%	
67.382	Unidentified	1807	0.02%	

Components

Ret. Time	Component	Ret. Idx.	Conc. %
67.570	Unidentified	1811	0.02%
68.010	Unidentified	1819	0.01%
68.240	Unidentified	1824	0.02%
80.810	Abietadiene	2081	0.01%

Total Identified Compounds **91.28 %**

GC/MS Report: Chromatogram

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