



ООО «Хевел Технолоджи»

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АО «Тинькофф Банк» г. Москва
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№3384 от «16» июля 2025 г.

Хромато масс анализ

Образец: поступил стеклянный флакон с маслянистой жидкостью. На флаконе имелась этикетка с надписью «...CBD...»



Общий вид флакона

Оборудование: Agilent GC 6850/MSD 5973N, Колонка капиллярная Mega-5ms, 30м, 0,25мм, 0,25мкм.

Пробоподготовка: жидкость исследовали без изменения.

Условия анализа:

6850 GC METHOD

OVEN

Initial temp: 115 'C (On)

Initial time: 2.00 min

Ramps:

#	Rate	Final temp	Final time
1	15.00	280	40.00
2	0.0(Off)		

Post temp: 0 'C

Post time: 0.00 min

Run time: 53.00 min

Maximum temp: 350 'C

Equilibration time: 0.50 min

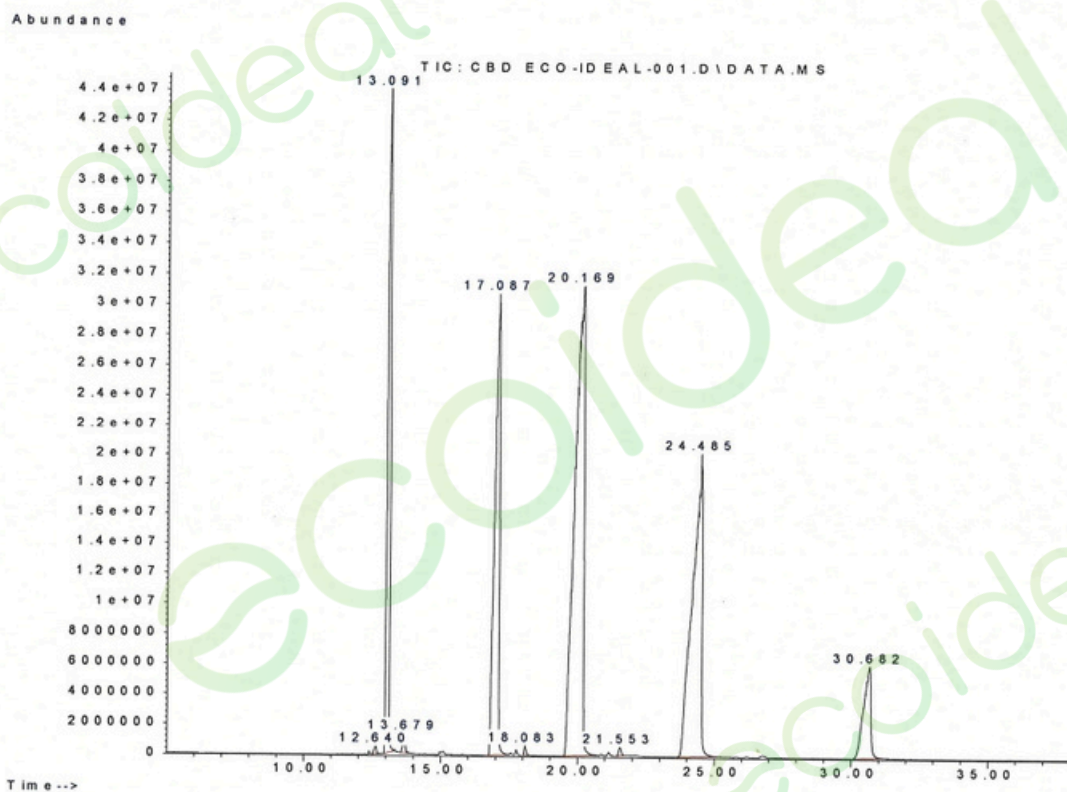
INLET (SPLIT/SPLITLESS)
Mode: Splitless
Initial temp: 290 'C (On)
Pressure: 11.27 psi (On)
Purge flow: 49.7 mL/min
Purge time: 0.00 min
Total flow: 53.7 mL/min
Gas saver: On
Saver flow: 20.0 mL/min
Saver time: 2.00 min
Gas type: Helium

DETECTOR (NO DET)

COLUMN
Capillary Column
Model Number: Mega MS5-025-025-30
Mega-5 MS
Max temperature: 350 'C
Nominal length: 30.0 m
Nominal diameter: 250.00 um
Nominal film thickness: 0.25 um
Mode: constant flow
Initial flow: 1.0 mL/min
Nominal init pressure: 11.28 psi
Average velocity: 37 cm/sec
Source: Inlet
Outlet: MSD
Outlet pressure: vacuum

SIGNAL
Data rate: 0.1 Hz
Type: col comp
Save Data: Off
Zero: 0.0 (Off)
Range: 0
Fast Peaks: Off
Attenuation: 0

Хроматограмма:



Сводная таблица по пикам

CAS	Name	RT	Amount
EPA-372769	>(E)-But-2-enyl isobutyl carbonate	6.4367	0.000458%
EPA-308767	>Diethylene glycol, O,O-di(pivaloyl)-	8.0990	0.000238%
EPA-343958	>Isophthalic acid, di(2-methylprop-2-en-1-yl) ester	11.7881	0.00182%
10541567	>p-Octylacetophenone	12.3894	0.0105%
60514489	>Octanoic acid, 1-(hydroxymethyl)-1,2-ethanediyl ester, (S)-	12.6370	0.100%
EPA-188442	>Cyclopenta[d]anthracene-8,11-dione, 1,2,3,3a,4,5,6,6a,7,12-decahydro-3-isopropyl-6-methylene-	13.0022	1.29%
13956291	>Cannabidiol	13.0237	2.85%
13956291	>Cannabidiol	13.0514	4.75%
58563556	>1-[(4-Hydroxyphenyl)thioxomethyl]-piperidine	13.0791	0.0125%
13956291	>Cannabidiol	13.0952	8.63%
13956291	>Cannabidiol	13.1014	4.56%
EPA-429607	>Methyl (2R,3R,4S)-3-(tert-butyldimethylsilyloxy)-2,4-dimethylhexanoate	13.4359	0.00113%
EPA-423718	>(3,5-Di-tert-butylphenyl)trimethylsilane	13.4420	0.000402%
27798567	>Methyl 2,5-dihydroxybenzoate, 2TMS derivative	13.6135	0.00333%
93980848	>Decanoic acid, 2-hydroxy-3-[(1-oxooctyl)oxy]propyl ester	13.6742	0.235%
791286	>Triphenylphosphine oxide	13.7065	0.00946%
EPA-293920	>(3,4-Dimethyl-phenyl)-[4-(4-fluoro-phenyl)-3-methyl-3H-thiazol-2-ylidene]-amine	13.8080	0.000627%
EPA-257073	>p-Sulfanilylbenzenesulfonamide	14.4277	0.000120%
1069870	>1,2-Dioctanoin	14.9736	0.0128%
17598935	>1,3-Dicaprin	15.0744	0.0203%
2082760	>Decanoic anhydride	15.0905	0.0319%
EPA-378178	>3,4-Difluorobenzyl alcohol, tert.-butyl ether	15.8056	0.000807%
EPA-378178	>3,4-Difluorobenzyl alcohol, tert.-butyl ether	15.8102	0.00171%
538238	>Glycerol tricaprylate	16.9374	0.374%
538238	>Glycerol tricaprylate	16.9658	1.52%
538238	>Glycerol tricaprylate	16.9889	0.365%
538238	>Glycerol tricaprylate	17.0635	0.192%
538238	>Glycerol tricaprylate	17.0727	0.0892%
55955889	>Phosphoric acid, dimethyl pentyl ester	17.0827	1.19%
538238	>Glycerol tricaprylate	17.0881	7.69%
1429669	>1,3-Dioctanoin	17.0927	3.67%
478422	>5H-Furo[3,2-g][1]benzopyran-5-one, 4-hydroxy-9-methoxy-7-methyl-	17.2311	0.00109%
98262625	>Imidazolidin-4-one, 1-benzoyl-2-t-butyl-3-methyl-4-ethyl-4-[2-(methylthio)ethyl]-	17.5664	0.0128%
EPA-413809	>3-(Benzoyloxy)propane-1,2-diyl dioctanoate	17.7639	0.0384%
EPA-412804	>2-(Nonanoyloxy)propane-1,3-diyl dioctanoate	18.0838	0.0910%
EPA-358108	>2,6-Difluoro-3-methylbenzamide, N-(1-naphthyl)-	18.1076	0.00159%
33368875	>2-(Decanoyloxy)propane-1,3-diyl dioctanoate	19.7362	0.376%
33368875	>2-(Decanoyloxy)propane-1,3-diyl dioctanoate	19.8500	0.336%

33368875	>2-(Decanoyloxy)propane-1,3-diyl dioctanoate	19.8569	0.551%
33368875	>2-(Decanoyloxy)propane-1,3-diyl dioctanoate	19.9099	0.377%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	19.9499	0.223%
EPA-479690	>2,4-Diamino-6-oxo-1,6-dihydro-5-pyrimidinecarbaldehyde, 3TMS derivative	19.9953	0.104%
EPA-158070	>Bicyclo[4.1.0]hepta-2,4-diene, 2,3,4,5-tetraethyl-7,7-diphenyl-	20.0114	0.0446%
258340668	>6-Amino-4-(4-methoxyphenyl)-3-methyl-1-phenyl-1H-pyrazolo[3,4-b]pyridine-5-carbonitrile	20.0160	0.00135%
33368875	>2-(Decanoyloxy)propane-1,3-diyl dioctanoate	20.0560	0.103%
67549795	>Permethyl 4"-O-glucosylisovitexin	20.1106	0.00217%
14630401	>Bis(trimethylsilyl)acetylene	20.1352	0.0203%
112447015	>3H-Pyrazolo[3,4-b]quinolin-9-one, 1,3-dimethyl-4,9-dihydro-7-methoxy-	20.1560	0.0457%
33368875	>2-(Decanoyloxy)propane-1,3-diyl dioctanoate	20.1652	0.221%
33368875	>2-(Decanoyloxy)propane-1,3-diyl dioctanoate	20.1798	5.09%
177717463	>1-Hydroxy-3-(octanoyloxy)propan-2-yl decanoate	20.1844	1.56%
EPA-446922	>Methyl hippurate, N-chlorodifluoroacetyl-	20.8718	0.00924%
324051550	>2-Cyclohexene-1,4-dione, 5,6-dichloro-2,3-dimethyl-, 1-oxime, o-benzoyl-	20.8803	0.00329%
EPA-413788	>2-(Decanoyloxy)-3-(octanoyloxy)propyl benzoate	21.1401	0.0368%
EPA-413787	>1-(Nonanoyloxy)-3-(octanoyloxy)propan-2-yl decanoate	21.5315	0.0207%
EPA-413787	>1-(Nonanoyloxy)-3-(octanoyloxy)propan-2-yl decanoate	21.5577	0.108%
EPA-413787	>1-(Nonanoyloxy)-3-(octanoyloxy)propan-2-yl decanoate	21.5923	0.0372%
24014446	>Thiophene, 2,2'-(1,1,2,2,3,3,4,4,5,5-decafluoro-1,5-pentenediyl)bis-	22.1205	0.000555%
EPA-352094	>2-Methoxyethanol, TBDMS derivative	22.1466	0.00122%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	23.8659	0.0648%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	23.9697	0.0117%
EPA-331929	>5-(Aminomethylene)-2,4,6(1H,3H,5H)-pyrimidinetrione tritms	24.0089	0.0379%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	24.0312	0.172%
19719687	>2-Norbornen-7-ol, 7-(p-methoxyphenyl)-, p-nitrobenzoate, anti-	24.1088	0.000543%
39228369	>Isothiazole, trimethyl-	24.1496	0.0144%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	24.2019	0.143%
82426888	>3-(Octanoyloxy)propane-1,2-diyl bis(decanoate)	24.2103	0.0989%
82426888	>3-(Octanoyloxy)propane-1,2-diyl bis(decanoate)	24.2242	0.0817%
82426888	>3-(Octanoyloxy)propane-1,2-diyl bis(decanoate)	24.2311	0.0882%
EPA-321408	>Sarcosine, N-(1-naphthoyl)-, decyl ester	24.2572	0.0265%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	24.2872	0.0216%
93980848	>Decanoic acid, 2-hydroxy-3-[(1-oxooctyl)oxy]propyl ester	24.3341	0.319%
69826637	>2-Naphthuric acid	24.3403	0.00987%
93980848	>Decanoic acid, 2-hydroxy-3-[(1-oxooctyl)oxy]propyl ester	24.3780	0.318%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	24.4095	0.133%

33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	24.4218	0.00950%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	24.4402	0.0300%
EPA-458437	>Methyl 3-(3-chlorobenzyl)-2-cyclohexylimidazo[1,2-a]pyridine-6-carboxylate	24.4794	0.0552%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	24.4840	0.164%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	24.5048	0.895%
33368864	>2-(Octanoyloxy)propane-1,3-diyl bis(decanoate)	24.5071	1.10%
82426888	>3-(Octanoyloxy)propane-1,2-diyl bis(decanoate)	24.5202	3.93%
13143925	>Arabinopyranoside, methyl, 2,3-dibenzoate 4-p-toluenesulfonate, .beta.-L-	26.1941	0.000800%
EPA-195202	>5-Allyl-1-benzoyl-5-benzyl-2-t-butyl-3-methylimidazolidin-4-one	26.2225	0.00134%
74113	>Benzoic acid, 4-chloro-	26.7469	0.00283%
2082760	>Decanoic anhydride	26.7630	0.0101%
EPA-143926	>Cyclobutane-1,2-dicarboxylic acid peroxide t-butyl ester	26.7777	0.00449%
EPA-321950	>.beta.-Alanine, N-(1-naphthoyl)-, octyl ester	26.7838	0.00785%
EPA-321409	>Sarcosine, N-(1-naphthoyl)-, undecyl ester	26.8169	0.00369%
19682305	>7a-Aza-B-homocholesta-3,5-dien-7-one	30.4230	0.0136%
621716	>Decanoic acid, 1,2,3-propanetriyl ester	30.5175	0.0271%
17863693	>1,2-Dicaprin	30.5767	0.0182%
621716	>Decanoic acid, 1,2,3-propanetriyl ester	30.6290	0.0762%
621716	>Decanoic acid, 1,2,3-propanetriyl ester	30.6521	0.0838%
621716	>Decanoic acid, 1,2,3-propanetriyl ester	30.6682	0.845%
621716	>Decanoic acid, 1,2,3-propanetriyl ester	30.6836	1.48%
EPA-391995	>Glutaric acid, 1,1,1-trifluoroprop-2-yl 2,6-dimethoxyphenyl ester	30.7174	0.00485%
EPA-306150	>Tri(n-butyl)difluorophosphorane	30.7413	0.00934%
621716	>Decanoic acid, 1,2,3-propanetriyl ester	30.7582	0.0315%

Вывод

Жидкость во флаконе каннабидиол, тетрагидроканнабинол не обнаружен в пределах чувствительности используемого метода.