

# Short Report (ISTD)

STD 5



**Name :** Abietic Acid

Name	RT	Area	Amount
STD 5	34.878	51.4736	2.212
STD 5	35.766	52.3505	2.171
	<b>Mean</b>	51.9120	2.191
	<b>Std.Dev.</b>	0.6201	0.029
	<b>%RSD</b>	1.1944	1.3184

**Name :** Decanoic Acid

Name	RT	Area	Amount
STD 5	18.991	115.3305	2.250
<b>Data file:</b>	C:\Users\Public\Documents\ChemStation 215\Data\AAL 2024\January\Acids 011124 AC Client Samples 2024-01-11 12-24-13\F-008-106-STD 5.D		
	<b>Mean</b>	112.4533	2.249
	<b>Std.Dev.</b>	4.0689	0.000
	<b>%RSD</b>	3.6183	0.0204

**Name :** Dehydroabietic Acid

Name	RT	Area	Amount
STD 5	34.256	150.4590	2.277
STD 5	35.118	155.1129	2.223
	<b>Mean</b>	152.7859	2.250
	<b>Std.Dev.</b>	3.2908	0.038
	<b>%RSD</b>	2.1539	1.7024

# Short Report (ISTD)

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## Sample name: Dodecanoic Acid

Name	RT	Area	Amount
STD 5	21.910	111.8871	2.245
STD 5	23.163	109.0377	2.245
	<b>Mean</b>	110.4624	2.245
	<b>Std.Dev.</b>	2.0148	0.000
	<b>%RSD</b>	1.8240	0.0037

## Name : Heptadecanoic Acid

Name	RT	Area	Amount
STD 5	29.781	51.3960	113.422
STD 5	31.028	52.7537	114.154
	<b>Mean</b>	52.0749	113.788
	<b>Std.Dev.</b>	0.9600	0.517
	<b>%RSD</b>	1.8435	0.4547

## Name : Hexanoic Acid

Name	RT	Area	Amount
STD 5	12.101	102.8570	2.237
STD 5	13.429	101.0428	2.197
	<b>Mean</b>	101.9499	2.217
	<b>Std.Dev.</b>	1.2828	0.028
	<b>%RSD</b>	1.2583	1.2814

# Short Report (ISTD)

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## Description: Isopimaric Acid

Name	RT	Area	Amount
STD 5	33.401	98.5347	2.284
STD 5	34.469	97.3322	2.173
	<b>Mean</b>	97.9335	2.228
	<b>Std.Dev.</b>	0.8503	0.078
	<b>%RSD</b>	0.8682	3.5184

## Name : Linoleic Acid

Name	RT	Area	Amount
STD 5	30.982	60.9179	2.158
STD 5	32.131	62.4912	2.182
	<b>Mean</b>	61.7045	2.170
	<b>Std.Dev.</b>	1.1125	0.017
	<b>%RSD</b>	1.8030	0.7821

## Name : Methyl Pentadecanoate

Name	RT	Area	Amount
STD 5	24.439	78.0831	2.000
STD 5	25.538	76.4345	2.000
	<b>Mean</b>	77.2588	2.000
	<b>Std.Dev.</b>	1.1657	0.000
	<b>%RSD</b>	1.5088	0.0000

# Short Report (ISTD)

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Name : **MOMP**

Name	Instrument:	GC-FID	RT	Area	Amount	Location:
STD 5			32.770	80.3920	2.000	106
STD 5			33.434	78.8289	2.000	
			<b>Mean</b>	79.6104	2.000	
			<b>Std.Dev.</b>	1.1052	0.000	
			<b>%RSD</b>	1.3883	0.0000	

Name : **Myrisitic Acid**

Name	RT	Area	Amount
STD 5	24.773	104.0553	2.188
STD 5	26.066	103.8534	2.173
	<b>Mean</b>	103.9543	2.180
	<b>Std.Dev.</b>	0.1428	0.011
	<b>%RSD</b>	0.1373	0.4845

Name : **Neoabietic Acid**

Name	RT	Area	Amount
STD 5	36.399	11.5565	2.293
STD 5	37.454	11.1014	2.188
	<b>Mean</b>	11.3290	2.240
	<b>Std.Dev.</b>	0.3218	0.074
	<b>%RSD</b>	2.8407	3.3254

# Short Report (ISTD)

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Injection date: Octanoic Acid 2024-01-11 18:27:08-06:00 Injection: 1 of 1

Name	RT	Area	Amount
STD 5	15.748	113.8937	2.246
STD 5	17.105	108.8394	2.254
	<b>Mean</b>	111.3665	2.250
	<b>Std.Dev.</b>	3.5739	0.006
	<b>%RSD</b>	3.2091	0.2599

Name : Oleic Acid

Name	RT	Area	Amount
STD 5	31.101	171.5267	2.159
STD 5	32.277	98.9485	2.201
	<b>Mean</b>	135.2376	2.180
	<b>Std.Dev.</b>	51.3205	0.030
	<b>%RSD</b>	37.9484	1.3583

Name : Palmitic Acid

Name	RT	Area	Amount
STD 5	28.030	105.7861	2.165
STD 5	29.310	106.3156	2.178
	<b>Mean</b>	106.0508	2.171
	<b>Std.Dev.</b>	0.3744	0.009
	<b>%RSD</b>	0.3530	0.4066

# Short Report (ISTD)

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**Name:** Palmitoleic Acid  
**Analysis method:** Acids 011121.AC.M **Area**  
**Last changed:** 2024-01-19 13:32:25-06:00  
**STD 5** 27.670 93.6915  
**STD 5** 28.916 92.7920  
**Sample amount:** 0.000  
**Multiplier:** 1 **Mean** 93.2418  
**Calib. data modified:** 2024-01-12 09:28:24-06:00  
**Std.Dev.** 0.6361  
**%RSD** 0.6822  
**Column name:** DB-1  
**Serial #:** autoID-3

**Injection volume:** 2.000  
**Amount:** 2.189  
**Acq. operator:** SYSTEM  
**Sample type:** Sample  
**Dilution:** 1  
**Lims ID:** 0.0141

**Name :** Palustric Acid

Name	RT	Area	Amount
STD 5	33.671	40.4440	2.254
STD 5	34.743	42.0595	2.194
	<b>Mean</b>	41.2517	2.224
	<b>Std.Dev.</b>	1.1424	0.042
	<b>%RSD</b>	2.7693	1.8993

**Name :** Stearic Acid

Name	RT	Area	Amount
STD 5	31.590	104.5089	2.149
STD 5	32.793	104.8579	2.153
	<b>Mean</b>	104.6834	2.151
	<b>Std.Dev.</b>	0.2468	0.003
	<b>%RSD</b>	0.2357	0.1326

## Short Report (ISTD)

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## ISTD report based on Area

Signal: FID1 A, Front Signal

Name	RT [min]	RF	Area	Amount [mg/L]	ISTD Name	Group
Hexanoic Acid	12.101	0.84925	102.85704	2.237	Methyl Pentadecanoate	
Octanoic Acid	15.748	0.76983	113.89368	2.246	Methyl Pentadecanoate	
Decanoic Acid	18.991	0.76158	115.33046	2.250	Methyl Pentadecanoate	
Dodecanoic Acid	21.910	0.78346	111.88710	2.245	Methyl Pentadecanoate	
Methyl Pentadecanoate	24.439	1.00000	78.08309	2.000	** ISTD ***	
Myristic Acid	24.773	0.82076	104.05531	2.188	Methyl Pentadecanoate	
Palmitoleic Acid	27.670	0.91225	93.69154	2.189	Methyl Pentadecanoate	
Palmitic Acid	28.030	0.79909	105.78609	2.165	Methyl Pentadecanoate	
Heptadecanoic Acid	29.781	86.15768	51.39605	113.422	Methyl Pentadecanoate	
Linoleic Acid	30.982	1.38330	60.91785	2.158	Methyl Pentadecanoate	
Oleic Acid	31.101	0.49136	171.52670	2.159	Methyl Pentadecanoate	
Stearic Acid	31.590	0.80286	104.50894	2.149	Methyl Pentadecanoate	
MOMP	32.770	1.00000	80.39195	2.000	** ISTD ***	
Isopimaric Acid	33.401	0.93162	98.53469	2.284	MOMP	
Palustric Acid	33.671	2.24013	40.44396	2.254	MOMP	
Dehydroabietic Acid	34.256	0.60839	150.45900	2.277	MOMP	
Abietic Acid	34.878	1.72701	51.47359	2.212	MOMP	
Neoabietic Acid	36.399	7.97501	11.55655	2.293	MOMP	
<b>Totals w/o ISTD(s):</b>				146.728		

Signal: FID2 B, Back Signal

Name	RT [min]	RF	Area	Amount [mg/L]	ISTD Name	Group
Hexanoic Acid	13.429	0.83105	101.04285	2.197	Methyl Pentadecanoate	
Octanoic Acid	17.105	0.79147	108.83940	2.254	Methyl Pentadecanoate	
Decanoic Acid	20.305	0.78442	109.57615	2.249	Methyl Pentadecanoate	
Dodecanoic Acid	23.163	0.78692	109.03767	2.245	Methyl Pentadecanoate	

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Name	RT [min]	RF	Area	Amount [mg/L]	ISTD Name	Group
Methyl Pentadecanoate	25.538	1.00000	76.43452	2.000	** ISTD ***	
Myristic Acid	26.066	0.79950	103.85339	2.173	Methyl Pentadecanoate	
Palmitoleic Acid	28.916	0.90147	92.79203	2.189	Methyl Pentadecanoate	
Palmitic Acid	29.310	0.78281	106.31555	2.178	Methyl Pentadecanoate	
Heptadecanoic Acid	31.028	82.69825	52.75368	114.154	Methyl Pentadecanoate	
Linoleic Acid	32.131	1.33469	62.49120	2.182	Methyl Pentadecanoate	
Oleic Acid	32.277	0.84996	98.94849	2.201	Methyl Pentadecanoate	
Stearic Acid	32.793	0.78476	104.85792	2.153	Methyl Pentadecanoate	
MOMP	33.434	1.00000	78.82890	2.000	** ISTD ***	
Isopimaric Acid	34.469	0.87990	97.33221	2.173	MOMP	
Palustric Acid	34.743	2.05622	42.05953	2.194	MOMP	
Dehydroabietic Acid	35.118	0.56489	155.11288	2.223	MOMP	
Abietic Acid	35.766	1.63431	52.35048	2.171	MOMP	
Neoabietic Acid	37.454	7.76651	11.10141	2.188	MOMP	
<b>Totals w/o ISTD(s):</b>				147.123		

Name :		Abietic Acid		
Name	RT	Area	Amount	
STD 5	34.878	51.4736	2.212	
STD 5	35.766	52.3505	2.171	
	<b>Mean</b>	51.9120	2.191	
	<b>Std.Dev.</b>	0.6201	0.029	
	<b>%RSD</b>	1.1944	1.3184	



# Short Report (ISTD)

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<b>Name :</b>	<b>Decanoic Acid</b>			
<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>	
STD 5	18.991	115.3305	2.250	
STD 5	20.305	109.5761	2.249	
	<b>Mean</b>	112.4533	2.249	
	<b>Std.Dev.</b>	4.0689	0.000	
	<b>%RSD</b>	3.6183	0.0204	

<b>Name :</b>	<b>Dehydroabietic Acid</b>			
<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>	
STD 5	34.256	150.4590	2.277	
STD 5	35.118	155.1129	2.223	
	<b>Mean</b>	152.7859	2.250	
	<b>Std.Dev.</b>	3.2908	0.038	
	<b>%RSD</b>	2.1539	1.7024	

<b>Name :</b>	<b>Dodecanoic Acid</b>			
<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>	
STD 5	21.910	111.8871	2.245	
STD 5	23.163	109.0377	2.245	
	<b>Mean</b>	110.4624	2.245	
	<b>Std.Dev.</b>	2.0148	0.000	
	<b>%RSD</b>	1.8240	0.0037	

# Short Report (ISTD)

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<b>Name :</b>	<b>Heptadecanoic Acid</b>		
<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5	29.781	51.3960	113.422
STD 5	31.028	52.7537	114.154
	<b>Mean</b>	52.0749	113.788
	<b>Std.Dev.</b>	0.9600	0.517
	<b>%RSD</b>	1.8435	0.4547

<b>Name :</b>	<b>Hexanoic Acid</b>		
<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5	12.101	102.8570	2.237
STD 5	13.429	101.0428	2.197
	<b>Mean</b>	101.9499	2.217
	<b>Std.Dev.</b>	1.2828	0.028
	<b>%RSD</b>	1.2583	1.2814

<b>Name :</b>	<b>Isopimaric Acid</b>		
<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5	33.401	98.5347	2.284
STD 5	34.469	97.3322	2.173
	<b>Mean</b>	97.9335	2.228
	<b>Std.Dev.</b>	0.8503	0.078
	<b>%RSD</b>	0.8682	3.5184

# Short Report (ISTD)

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<b>Name :</b>	<b>Linoleic Acid</b>			
<b>Name</b>		<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5		30.982	60.9179	2.158
STD 5		32.131	62.4912	2.182
	<b>Mean</b>		61.7045	2.170
	<b>Std.Dev.</b>		1.1125	0.017
	<b>%RSD</b>		1.8030	0.7821

<b>Name :</b>	<b>Methyl Pentadecanoate</b>			
<b>Name</b>		<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5		24.439	78.0831	2.000
STD 5		25.538	76.4345	2.000
	<b>Mean</b>		77.2588	2.000
	<b>Std.Dev.</b>		1.1657	0.000
	<b>%RSD</b>		1.5088	0.0000

<b>Name :</b>	<b>MOMP</b>			
<b>Name</b>		<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5		32.770	80.3920	2.000
STD 5		33.434	78.8289	2.000
	<b>Mean</b>		79.6104	2.000
	<b>Std.Dev.</b>		1.1052	0.000
	<b>%RSD</b>		1.3883	0.0000

# Short Report (ISTD)

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<b>Name :</b>	<b>Myrisitic Acid</b>			
<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>	
STD 5	24.773	104.0553	2.188	
STD 5	26.066	103.8534	2.173	
	<b>Mean</b>	103.9543	2.180	
	<b>Std.Dev.</b>	0.1428	0.011	
	<b>%RSD</b>	0.1373	0.4845	

<b>Name :</b>	<b>Neoabietic Acid</b>			
<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>	
STD 5	36.399	11.5565	2.293	
STD 5	37.454	11.1014	2.188	
	<b>Mean</b>	11.3290	2.240	
	<b>Std.Dev.</b>	0.3218	0.074	
	<b>%RSD</b>	2.8407	3.3254	

<b>Name :</b>	<b>Octanoic Acid</b>			
<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>	
STD 5	15.748	113.8937	2.246	
STD 5	17.105	108.8394	2.254	
	<b>Mean</b>	111.3665	2.250	
	<b>Std.Dev.</b>	3.5739	0.006	
	<b>%RSD</b>	3.2091	0.2599	

# Short Report (ISTD)

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**Name :** Oleic Acid

<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5	31.101	171.5267	2.159
STD 5	32.277	98.9485	2.201
	<b>Mean</b>	135.2376	2.180
	<b>Std.Dev.</b>	51.3205	0.030
	<b>%RSD</b>	37.9484	1.3583

**Name :** Palmitic Acid

<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5	28.030	105.7861	2.165
STD 5	29.310	106.3156	2.178
	<b>Mean</b>	106.0508	2.171
	<b>Std.Dev.</b>	0.3744	0.009
	<b>%RSD</b>	0.3530	0.4066

**Name :** Palmitoleic Acid

<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5	27.670	93.6915	2.189
STD 5	28.916	92.7920	2.189
	<b>Mean</b>	93.2418	2.189
	<b>Std.Dev.</b>	0.6361	0.000
	<b>%RSD</b>	0.6822	0.0141

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**Name :** Palustric Acid

<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5	33.671	40.4440	2.254
STD 5	34.743	42.0595	2.194
	<b>Mean</b>	41.2517	2.224
	<b>Std.Dev.</b>	1.1424	0.042
	<b>%RSD</b>	2.7693	1.8993

**Name :** Stearic Acid

<b>Name</b>	<b>RT</b>	<b>Area</b>	<b>Amount</b>
STD 5	31.590	104.5089	2.149
STD 5	32.793	104.8579	2.153
	<b>Mean</b>	104.6834	2.151
	<b>Std.Dev.</b>	0.2468	0.003
	<b>%RSD</b>	0.2357	0.1326

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