REKAMAN PENGUJIAN GC

Parameter Uji : Asam Lemak
Tanggal Pengujian : 18/06/2022
Metode Acuan : IK Metode Uji Asam Lemak Jenuh & Tak Jenuh dengan GC No. 18-6-1/MU/SMM-SIG

SAMPEL	Sample Name:	106.R.3363_a_Minyak			KONFIRMASI		
	Area	% Asam Lemak	% Asam Lemak dalam sampel	Asam Lemak	RT sampel	RT STD	Selisih
C 4:0		0.00%	0.0000%	(*as.butirat*)			
C 6:0		0.00%	0.0000%	(*as.kaproat*)			
C 8:0		0.00%	0.0000%	(*as.kaprilat*)			
C 10:0		0.00%	0.0000%	(*as.kaprat*)			
C 11:0		0.00%	0.0000%	(as.undekanoat)			
C 12:0		0.00%	0.0000%	(*as.laurat*)			
C 13:0		0.00%	0.0000%	(as.tridekanoat)			
C 14:0	26.04	0.06%	0.0644%	(*as.miristat*)	9.084	9.144	0.06
C 14:1		0.00%	0.0000%	(as.miristoleat)			
C 15:0		0.00%	0.0000%	(as.pentadekanoat)			
C 15:1		0.00%	0.0000%	(as.pentadekenoat)			
C 16:0	3,780.46	9.35%	9.3494%	(*as.palmitat*)	10.663	10.72	0.057
C 16:1	35.24	0.09%	0.0872%	(as.palmitoleat)	10.991	11.047	0.056
C 17:0	31.28	0.08%	0.0774%	(as.heptadekanoat)	11.651	11.712	0.061
C 17:1		0.00%	0.0000%	(as.heptadekenoat)			
C 18:0	1,507.58	3.73%	3.7284%	(*as.stearat*)	12.827	12.873	0.046
C 18:1 W9T		0.00%	0.0000%	(*as.oleat/* ω9t)			
C 18:1 W9C	14,044.51	34.75%	34.7333%	(*as.oleat/* ω9c)	13.211	13.239	0.028
C 18:2 W6T		0.00%	0.0000%	(*as.linoleat/* ω6t)			
C 18:2 W6C	18,343.42	45.38%	45.3649%	(*as.linoleat/* ω6c)	13.911	13.925	0.014
C 20:0	133.97	0.33%	0.3313%	(as.arachidat)	15.652	15.711	0.059
C 18:3 W6	262.91	0.65%	0.6502%	(*as.linolenat/* ω6)	14.435	14.359	0.076
C 20:1	81.27	0.20%	0.2010%	(as.eikosenoat)	16.127	16.184	0.057
C 18:3 W3	1,976.76	4.89%	4.8887%	(*as.linolenat/* ω3)	14.784	14.841	0.057
C 21:0		0.00%	0.0000%	(as.heneikosanoat)			
C 20:2		0.00%	0.0000%	(as.eikosadienoat)			
C 22:0	198.22	0.49%	0.4902%	(as.behenat)	19.077	19.127	0.05
C 20:3 W6		0.00%	0.0000%	(as.eikosatrienoat)			
C 22:1 W9		0.00%	0.0000%	(as.erukat)			
C 20:3 W3		0.00%	0.0000%	(as.eikosatrienoat)			
C 23:0		0.00%	0.0000%	(as.trikosanoat)			
C 20:4 W6		0.00%	0.0000%	AA (as.arachidonat)			
C 22:2		0.00%	0.0000%	(as.dokosadienoat)			
C 24:0		0.00%	0.0000%	(as.lignokerat)			
C 20:5 W3		0.00%	0.0000%	EPA (as.eikosapentaenoat)			
C 24:1		0.00%	0.0000%	(as.nervonat)			
C 22:6 W3		0.00%	0.0000%	DHA (as.dokosahexaenoat)			
Lain-lain		0.00%	0.0000%				
Total	40,421.66	100.00%	99.9664%				

Asam lemak	% Asam Lemak	% Asam lemak dalam sampel
Lemak jenuh	14.05%	14.0411%
Lemak tak jenuh	85.95%	85.9253%
> tunggal (MUFA)	35.03%	35.0215%
> ganda (PUFA)	50.92%	50.9038%
C 18:3 *(as.linolenat/* ω3*)*	4.89%	4.8887%
omega 3	4.89%	4.8887%
EPA	0.00%	0.0000%
DHA	0.00%	0.0000%
AA	0.00%	0.0000%
omega 6	46.03%	46.0151%
omega 9	34.75%	34.7333%
Kadar Lemak (%)	**99.9664**	

Perhitungan :

Kadar Asam Lemak dalam sampel (%) = $\frac{\%\ \text{Asam Lemak}}{100\ \%} \times \%\ \text{Lemak Total}$

Paraf Spv,

Software Version : 6.3.1.0504
Sample Name : 106.R.3363_a_Minyak
Instrument Name : clarus 580 Saturated Fat
Rack/Vial : 0/27
Sample Amount : 1,000000
Cycle : 1

Date : 24/06/2022 11:12:03
Data Acquisition Time : 18/06/2022 17:26:05
Channel : B
Operator : manager
Dilution Factor : 1,000000

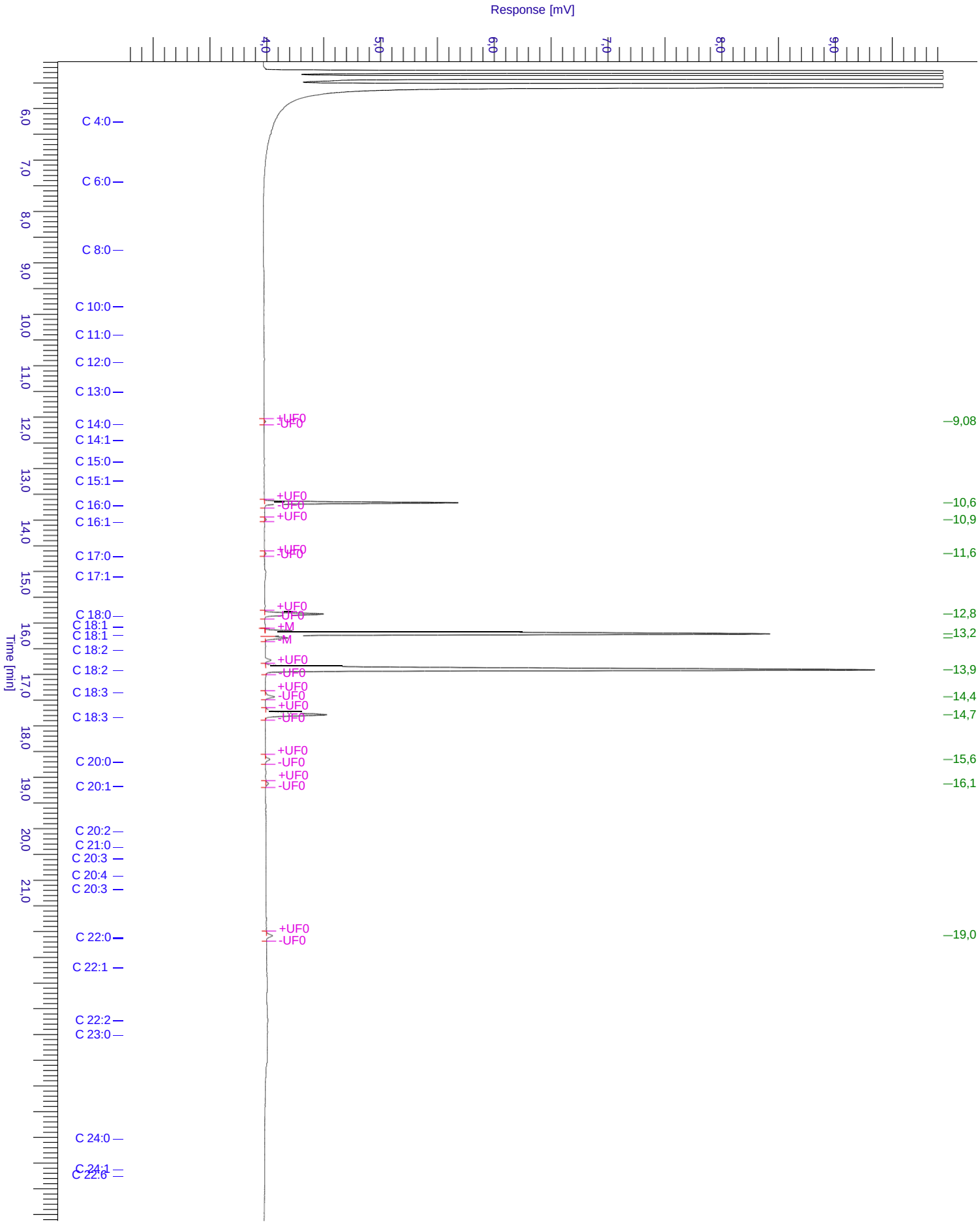
Result File : D:\GC Backup\My Documents\Data rutin\grafik sf\2022\6. Juni 580\106.R.3363_a_Minyak.rst
Sequence File : D:\GC Backup\My Documents\Data rutin\grafik sf\2022\6. Juni 580\140621 580 fastfame2.seq

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]
1	C 14:0	9,084	26,04	15,02	0,06
2	C 16:0	10,663	3780,46	1704,55	9,35
3	C 16:1	10,991	35,24	16,18	0,09
4	C 17:0	11,651	31,28	12,98	0,08
5	C 18:0	12,827	1507,58	517,67	3,73
6	C 18:1 W9C	13,211	14044,51	4440,72	34,75
8	C 18:2 W6C	13,911	18343,42	5356,89	45,38
9	C 18:3 W6	14,435	262,91	78,76	0,65
10	C 18:3 W3	14,784	1976,76	541,35	4,89
11	C 20:0	15,652	133,97	37,50	0,33
12	C 20:1	16,127	81,27	24,61	0,20
13	C 22:0	19,077	198,22	52,19	0,49
			40421,64	12798,42	100,00

Report stored in ASCII file: D:\GC Backup\My Documents\Data rutin\grafik sf\2022\6. Juni 580\106.R.3363_a_Minyak.TX0

Chromatogram

Sample Name : 106.R.3363_a_Minyak Sample #: 873 Page 1 of 1
FileName : D:\GC Backup\My Documents\Data rutin\grafik sf\2022\6. Juni 580\106.R.3363_a_Minyak_clarus 580 Saturated Fat_B_177.raw
Date : 24/06/2022 11:12:04
Method : sf kolom fast fame 2021 Time of Injection: 18/06/2022 17:26:05
Start Time : 2,09 min End Time : 24,63 min Low Point : 3,73 mV High Point : 10,95 mV
Plot Offset: 3,73 mV Plot Scale: 7,2 mV



REKAMAN PENGUJIAN GC

Parameter Uji : Asam Lemak
Tanggal Pengujian : 18/06/2022
Metode Acuan : IK Metode Uji Asam Lemak Jenuh & Tak Jenuh dengan GC No. 18-6-1/MU/SMM-SIG

SAMPEL	Sample Name:	106.R.3363_b_Minyak			KONFIRMASI		
	Area	% Asam Lemak	% Asam Lemak dalam sampel	Asam Lemak	RT sampel	RT STD	Selisih
C 4:0		0.00%	0.0000%	(*as.butirat*)			
C 6:0		0.00%	0.0000%	(*as.kaproat*)			
C 8:0		0.00%	0.0000%	(*as.kaprilat*)			
C 10:0		0.00%	0.0000%	(*as.kaprat*)			
C 11:0		0.00%	0.0000%	(as.undekanoat)			
C 12:0		0.00%	0.0000%	(*as.laurat*)			
C 13:0		0.00%	0.0000%	(as.tridekanoat)			
C 14:0	26.55	0.07%	0.0664%	(*as.miristat*)	9.091	9.144	0.053
C 14:1		0.00%	0.0000%	(as.miristoleat)			
C 15:0		0.00%	0.0000%	(as.pentadekanoat)			
C 15:1		0.00%	0.0000%	(as.pentadekenoat)			
C 16:0	3,749.68	9.38%	9.3789%	(*as.palmitat*)	10.669	10.72	0.051
C 16:1	33.16	0.08%	0.0829%	(as.palmitoleat)	10.996	11.047	0.051
C 17:0	29.82	0.07%	0.0746%	(as.heptadekanoat)	11.659	11.712	0.053
C 17:1		0.00%	0.0000%	(as.heptadekenoat)			
C 18:0	1,490.34	3.73%	3.7277%	(*as.stearat*)	12.832	12.873	0.041
C 18:1 W9T		0.00%	0.0000%	(*as.oleat/* ω9t)			
C 18:1 W9C	13,881.26	34.73%	34.7206%	(*as.oleat/* ω9c)	13.216	13.239	0.023
C 18:2 W6T		0.00%	0.0000%	(*as.linoleat/* ω6t)			
C 18:2 W6C	18,141.46	45.39%	45.3764%	(*as.linoleat/* ω6c)	13.913	13.925	0.012
C 20:0	129.72	0.32%	0.3245%	(as.arachidat)	15.657	15.711	0.054
C 18:3 W6	247.85	0.62%	0.6199%	(*as.linolenat/* ω6)	14.439	14.359	0.08
C 20:1	84.11	0.21%	0.2104%	(as.eikosenoat)	16.131	16.184	0.053
C 18:3 W3	1,952.91	4.89%	4.8847%	(*as.linolenat/* ω3)	14.789	14.841	0.052
C 21:0		0.00%	0.0000%	(as.heneikosanoat)			
C 20:2		0.00%	0.0000%	(as.eikosadienoat)			
C 22:0	199.36	0.50%	0.4987%	(as.behenat)	19.089	19.127	0.038
C 20:3 W6		0.00%	0.0000%	(as.eikosatrienoat)			
C 22:1 W9		0.00%	0.0000%	(as.erukat)			
C 20:3 W3		0.00%	0.0000%	(as.eikosatrienoat)			
C 23:0		0.00%	0.0000%	(as.trikosanoat)			
C 20:4 W6		0.00%	0.0000%	AA (as.arachidonat)			
C 22:2		0.00%	0.0000%	(as.dokosadienoat)			
C 24:0		0.00%	0.0000%	(as.lignokerat)			
C 20:5 W3		0.00%	0.0000%	EPA (as.eikosapentaenoat)			
C 24:1		0.00%	0.0000%	(as.nervonat)			
C 22:6 W3		0.00%	0.0000%	DHA (as.dokosahexaenoat)			
Lain-lain		0.00%	0.0000%				
Total	39,966.22	100.00%	99.9657%				

Asam lemak	% Asam Lemak	% Asam lemak dalam sampel
Lemak jenuh	14.08%	14.0707%
Lemak tak jenuh	85.92%	85.8950%
> tunggal (MUFA)	35.03%	35.0139%
> ganda (PUFA)	50.90%	50.8811%
C 18:3 *(as.linolenat/* ω3*)*	4.89%	4.8847%
omega 3	4.89%	4.8847%
EPA	0.00%	0.0000%
DHA	0.00%	0.0000%
AA	0.00%	0.0000%
omega 6	46.01%	45.9964%
omega 9	34.73%	34.7206%
Kadar Lemak (%)	**99.9657**	

Perhitungan :

Kadar Asam Lemak dalam sampel (%) = $\frac{\%\ \text{Asam Lemak}}{100\ \%} \times \%\ \text{Lemak Total}$

Paraf Spv,

Software Version : 6.3.1.0504
Sample Name : 106.R.3363_b_Minyak
Instrument Name : clarus 580 Saturated Fat
Rack/Vial : 0/27
Sample Amount : 1,000000
Cycle : 1

Date : 24/06/2022 11:15:11
Data Acquisition Time : 18/06/2022 17:57:42
Channel : B
Operator : manager
Dilution Factor : 1,000000

Result File : D:\GC Backup\My Documents\Data rutin\grafik sf\2022\6. Juni 580\106.R.3363_b_Minyak.rst
Sequence File : D:\GC Backup\My Documents\Data rutin\grafik sf\2022\6. Juni 580\140621 580 fastfame2.seq

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [uV]	Area [%]
1	C 14:0	9,091	26,55	14,88	0,07
2	C 16:0	10,669	3749,68	1638,88	9,38
3	C 16:1	10,996	33,16	15,27	0,08
4	C 17:0	11,659	29,82	12,23	0,07
5	C 18:0	12,832	1490,34	533,77	3,73
6	C 18:1 W9C	13,216	13881,26	4486,53	34,73
8	C 18:2 W6C	13,913	18141,46	5342,67	45,39
9	C 18:3 W6	14,439	247,85	75,77	0,62
10	C 18:3 W3	14,789	1952,91	519,85	4,89
11	C 20:0	15,657	129,72	39,05	0,32
12	C 20:1	16,131	84,11	24,33	0,21
13	C 22:0	19,089	199,36	51,07	0,50
			39966,21	12754,30	100,00

Report stored in ASCII file: D:\GC Backup\My Documents\Data rutin\grafik sf\202\6. Juni 580\106.R.3363_b_Minyak.TX0

Chromatogram

Sample Name : 106.R.3363_b_Minyak Sample #: 874 Page 1 of 1
FileName : D:\GC Backup\My Documents\Data rutin\grafik sf\2022\6. Juni 580\106.R.3363_b_Minyak_clarus 580 Saturated Fat_B_178.raw
Date : 24/06/2022 11:15:13
Method : sf kolom fast fame 2021 Time of Injection: 18/06/2022 17:57:42
Start Time : 2,15 min End Time : 24,66 min Low Point : 4,10 mV High Point : 10,65 mV
Plot Offset: 4,10 mV Plot Scale: 6,5 mV

