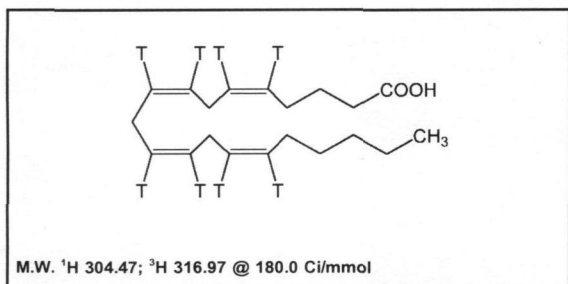




## Product Data Sheet

**MT-901T**

### Arachidonic acid, [5,6,8,9,11,12,14,15-<sup>3</sup>H]-



**Lot #:** 167-100-180-A-20081023-NT

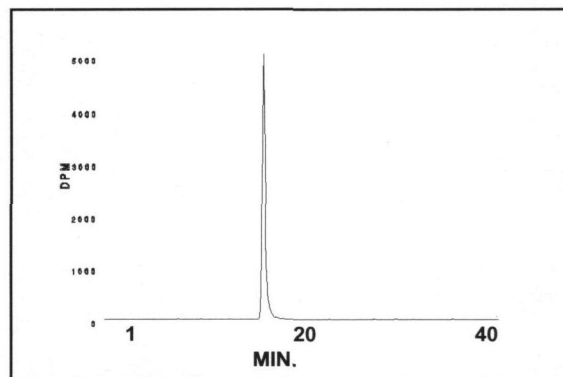
**Specific Activity:** 180.0 Ci/mmol

**Concentration:** 1.0 mCi/ml; 1.76 µg/ml

**Packaged in:** Toluene solution ↓ argon

**Date of Analysis:** May 08, 2009

**Radiochemical Purity:** 99.7%



HPLC ANALYSIS LOT 167-100-180-A-20081023-NT  
File Name: intm1236 Date and Time: 5/8/2009 8:59:32 AM  
Unit 20 Radio

Peak #	Area %	Time	Area
1	99.73	16.22670	11651.40481
2	0.19	17.46000	22.36734
3	0.07	18.14670	8.75978
Totals	100.00		11682.53193

**Stability and Storage Recommendation:** The rate of decomposition is approximately 2%/month for the first six months after purification when stored at -20°C.

**Product Warranty:** Stated on the reverse side of this Product Data Sheet.

**Caution:** Not For Use In Humans Or Clinical Diagnosis. This product is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not intended for use in humans. Responsibility for its use in humans, as a diagnostic reagent, and compliance with federal laws rests solely with the purchaser.

**MT-901T**

**Arachidonic acid, [5,6,8,9,11,12,14,15-<sup>3</sup>H(N)]-**

**Lot 167-100-180-A-20081023-NT**

**A) All chromatograms were run using the HPLC method described on the Product Data Sheet.**

**Concentrations and volumes:**

Standard solution concentration was 1.0 mg/mL.

**Arachidonic acid, [5,6,8,9,11,12,14,15-<sup>3</sup>H(N)]-** concentration was 1.0 mCi/mL.

Volume of standard alone injection was 2.0 µL.

Volume of **Arachidonic acid, [5,6,8,9,11,12,14,15-<sup>3</sup>H(N)]-** alone injection was 2.0 µL.

Co-injection solution consisted of 2.0 µL **Arachidonic acid, [5,6,8,9,11,12,14,15-<sup>3</sup>H(N)]-** + 2.0 µL standard.

Volume of co-injection was 4.0 µL.

Volume of blank injection was 2.0 µL.

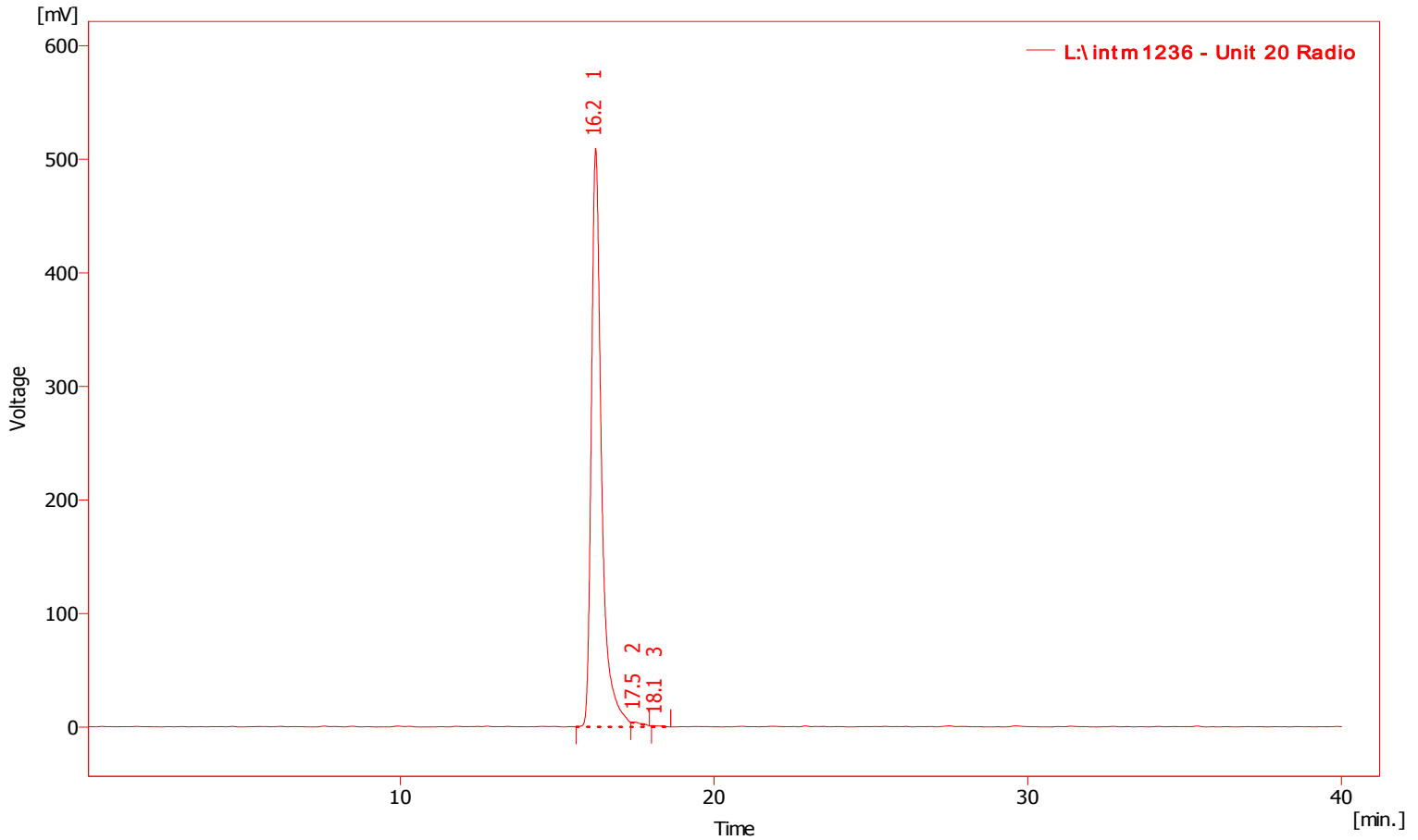
**B) Mass spectrometry – Negative mode**

**C) NMR**

**MT-901T**  
**Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-**  
**Lot 167-100-180-A-20081023-NT**

Chromatogram Info:

File Name	: L:\intm1236	File Created	: 3/19/2014 12:37:36 PM
Origin	: Acquired, Acquisition started 5/8/2009 8:19:33 AM	Acquired Date	: 5/8/2009 8:59:32 AM
Project	: Test	By	: Administrator
Method	: Unit_20_40_min_run	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 3/19/2014 12:46 PM
Created	: 4/12/2008 10:42 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



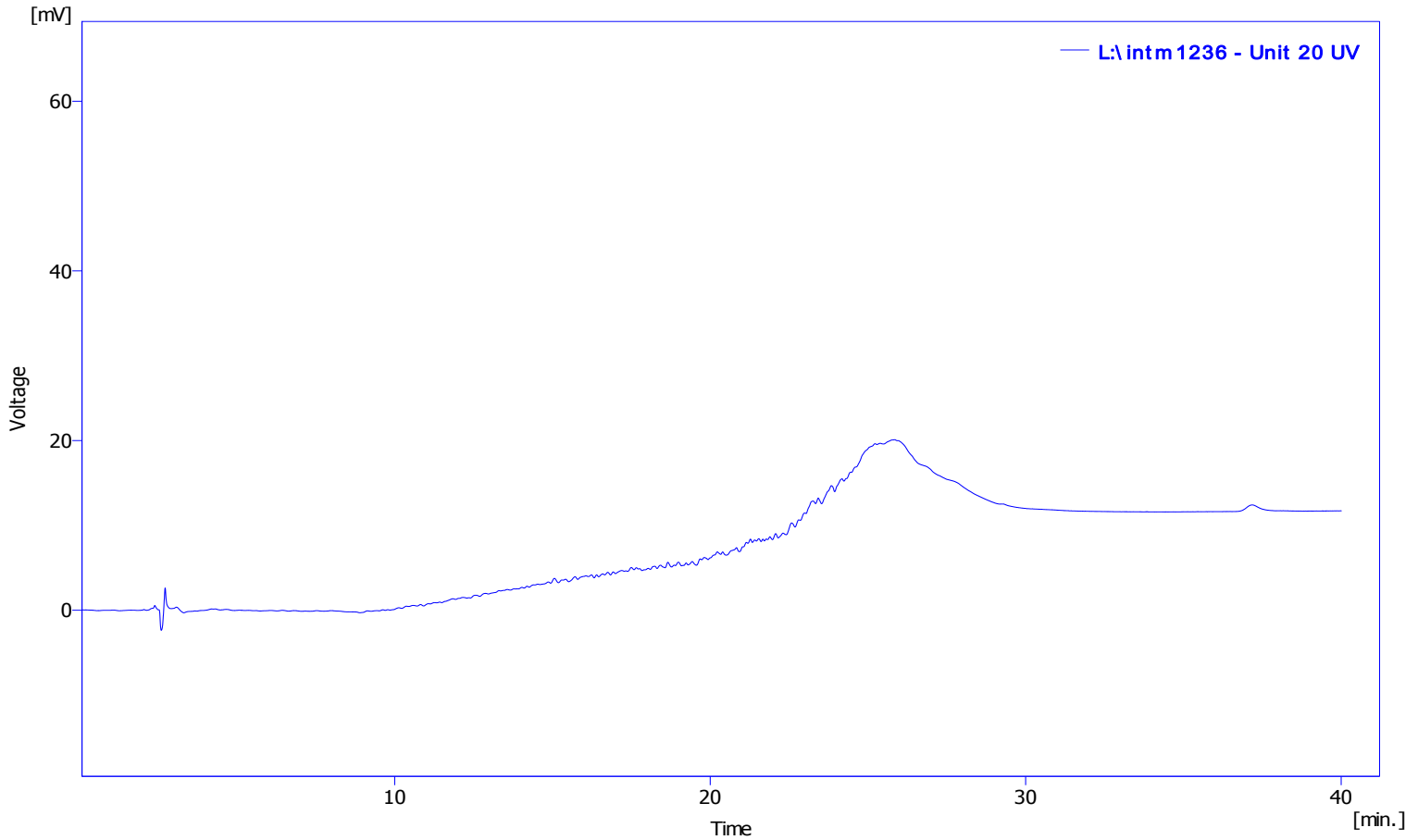
Result Table (Uncal - L:\intm1236 - Unit 20 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		16.23	11651.405	509.53	99.73	99.72	14245.20	284903.93	2.42		
2		17.46	22.367	0.99	0.19	0.19	46783.32	935666.41	2.60		2.9
3		18.15	8.760	0.44	0.07	0.09	84808.75	1696174.93	2.00		2.4
		Total	11682.532	510.96	100.00	100.00					

**MT-901T**  
**Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-**  
**Lot 167-100-180-A-20081023-NT**

Chromatogram Info:

File Name	: L:\intm1236	File Created	: 3/19/2014 12:37:36 PM
Origin	: Acquired, Acquisition started 5/8/2009 8:19:33 AM	Acquired Date	: 5/8/2009 8:59:32 AM
Project	: Test	By	: Administrator
Method	: Unit_20_40_min_run	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 3/19/2014 12:47 PM
Created	: 4/12/2008 10:42 AM		
Column	:	Detection	: UV 220nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



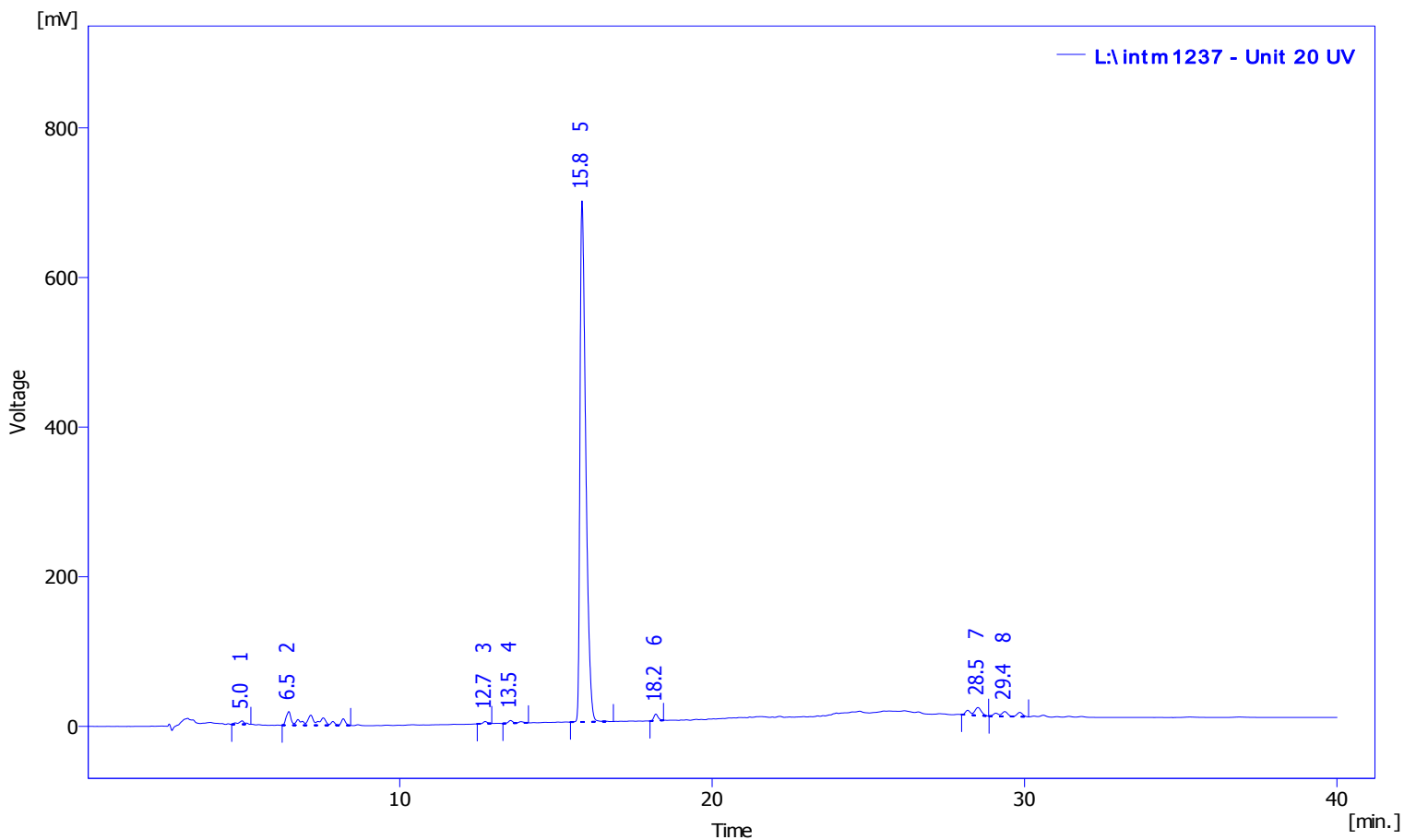
Result Table (Uncal - L:\intm1236 - Unit 20 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
No peak to report										

**MT-901T**  
**Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-**  
**Lot 167-100-180-A-20081023-NT**

Chromatogram Info:

File Name	: L:\intm1237	File Created	: 3/19/2014 12:37:36 PM
Origin	: Acquired, Acquisition started 5/8/2009 9:34:46 AM	Acquired Date	: 5/8/2009 10:14:45 AM
Project	: Test	By	: Administrator
Method	: Unit_20_40_min_run	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 3/19/2014 12:48 PM
Created	: 4/12/2008 10:42 AM		
Column	:	Detection	: UV 220nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intm1237 - Unit 20 UV)

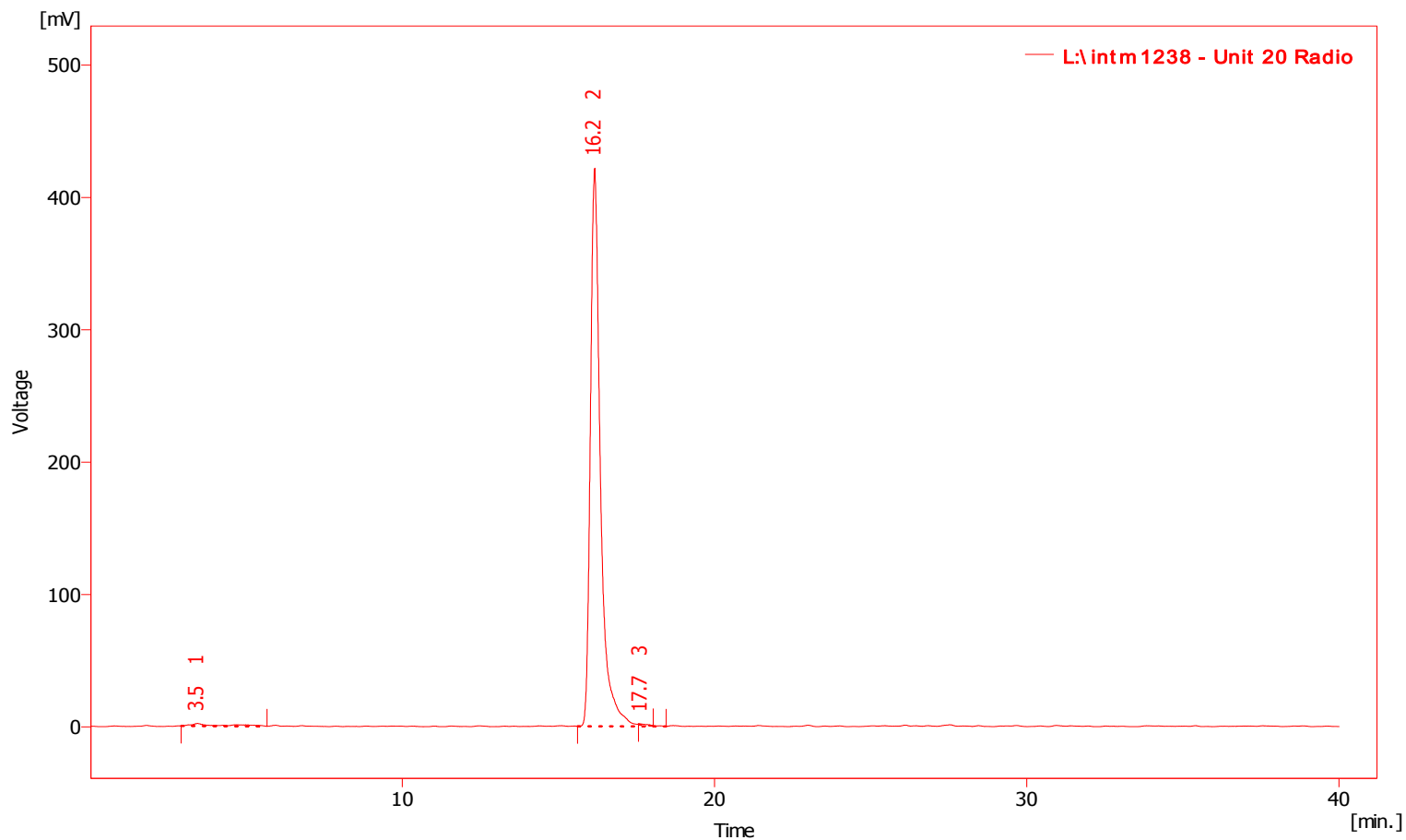
	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		4.95	68.905	4.79	0.66	0.64	5309.64	106192.76	0.87		
2		6.45	729.720	18.39	7.03	2.44	7975.01	159500.24	4.92		5.4
3		12.74	25.869	2.89	0.25	0.38	45852.74	917054.73	1.14		23.9
4		13.55	56.351	3.75	0.54	0.50	45184.78	903695.52	1.93		3.3
5		15.83	8987.102	696.69	86.61	92.57	33592.11	671842.25	1.69		7.6
6		18.20	83.777	8.94	0.81	1.19	85276.74	1705534.84	1.18		8.0
7		28.51	221.331	10.67	2.13	1.42	87624.86	1752497.15	0.79		32.6
8		29.37	203.303	6.50	1.96	0.86	108337.92	2166758.35	0.76		2.3
		Total	10376.359	752.62	100.00	100.00					



**MT-901T**  
**Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-**  
**Lot 167-100-180-A-20081023-NT**

Chromatogram Info:

File Name	: L:\intm1238	File Created	: 3/19/2014 12:37:36 PM
Origin	: Acquired, Acquisition started 5/8/2009 11:21:33 AM	Acquired Date	: 5/8/2009 12:01:31 PM
Project	: Test	By	: Administrator
Method	: Unit_20_40_min_run	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 3/19/2014 12:49 PM
Created	: 4/12/2008 10:42 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



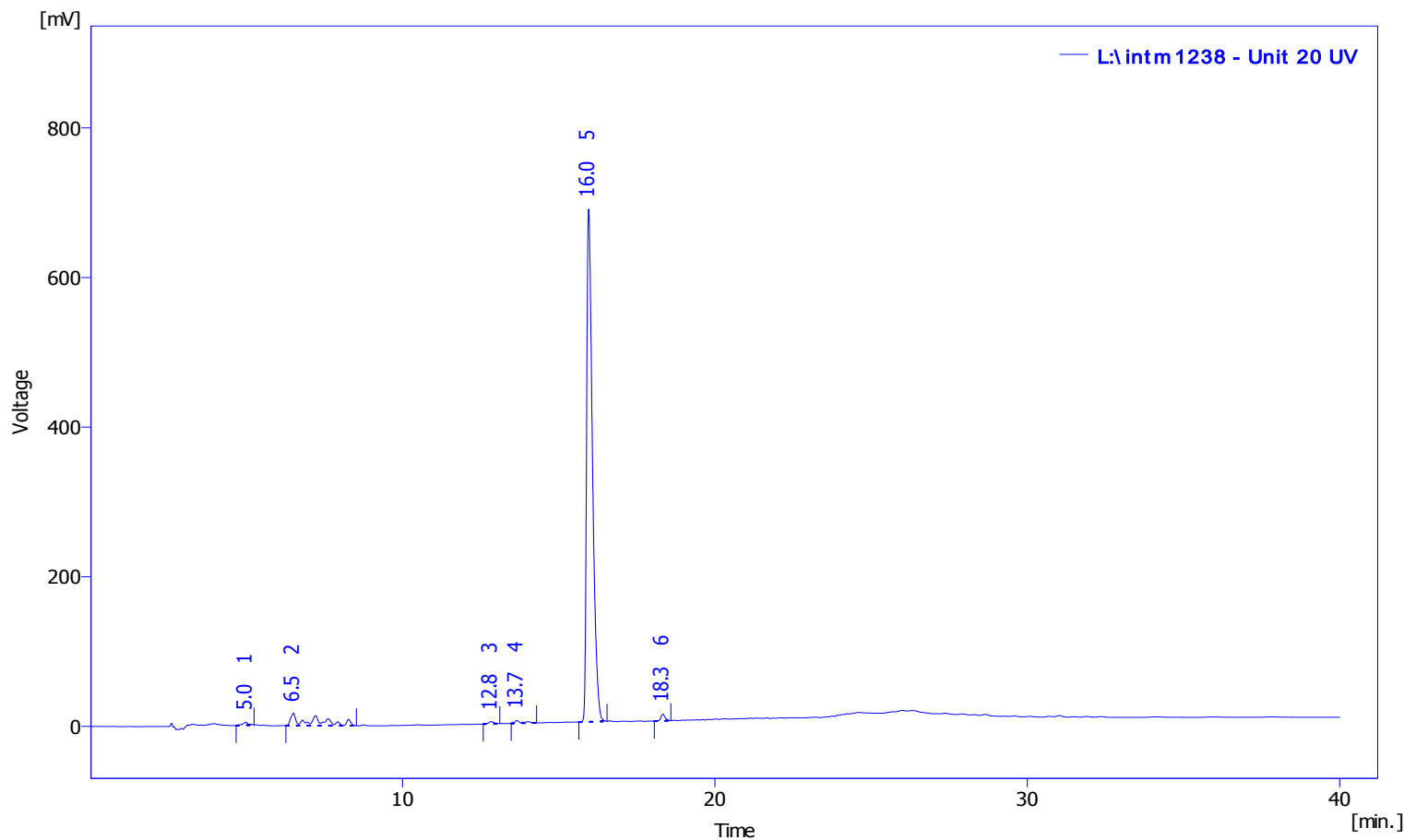
Result Table (Uncal - L:\intm1238 - Unit 20 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		3.45	133.265	2.07	1.39	0.49	559.39	11187.83	2.85		
2		16.17	9475.410	421.69	98.50	99.40	14145.88	282917.52	2.56		22.6
3		17.65	11.058	0.46	0.11	0.11	70341.24	1406824.74	2.88		3.7
		Total	9619.733	424.22	100.00	100.00					

**MT-901T**  
**Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-**  
**Lot 167-100-180-A-20081023-NT**

Chromatogram Info:

File Name	: L:\intm1238	File Created	: 3/19/2014 12:37:36 PM
Origin	: Acquired, Acquisition started 5/8/2009 11:21:33 AM	Acquired Date	: 5/8/2009 12:01:31 PM
Project	: Test	By	: Administrator
Method	: Unit_20_40_min_run	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 3/19/2014 12:49 PM
Created	: 4/12/2008 10:42 AM		
Column	:	Detection	: UV 220nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



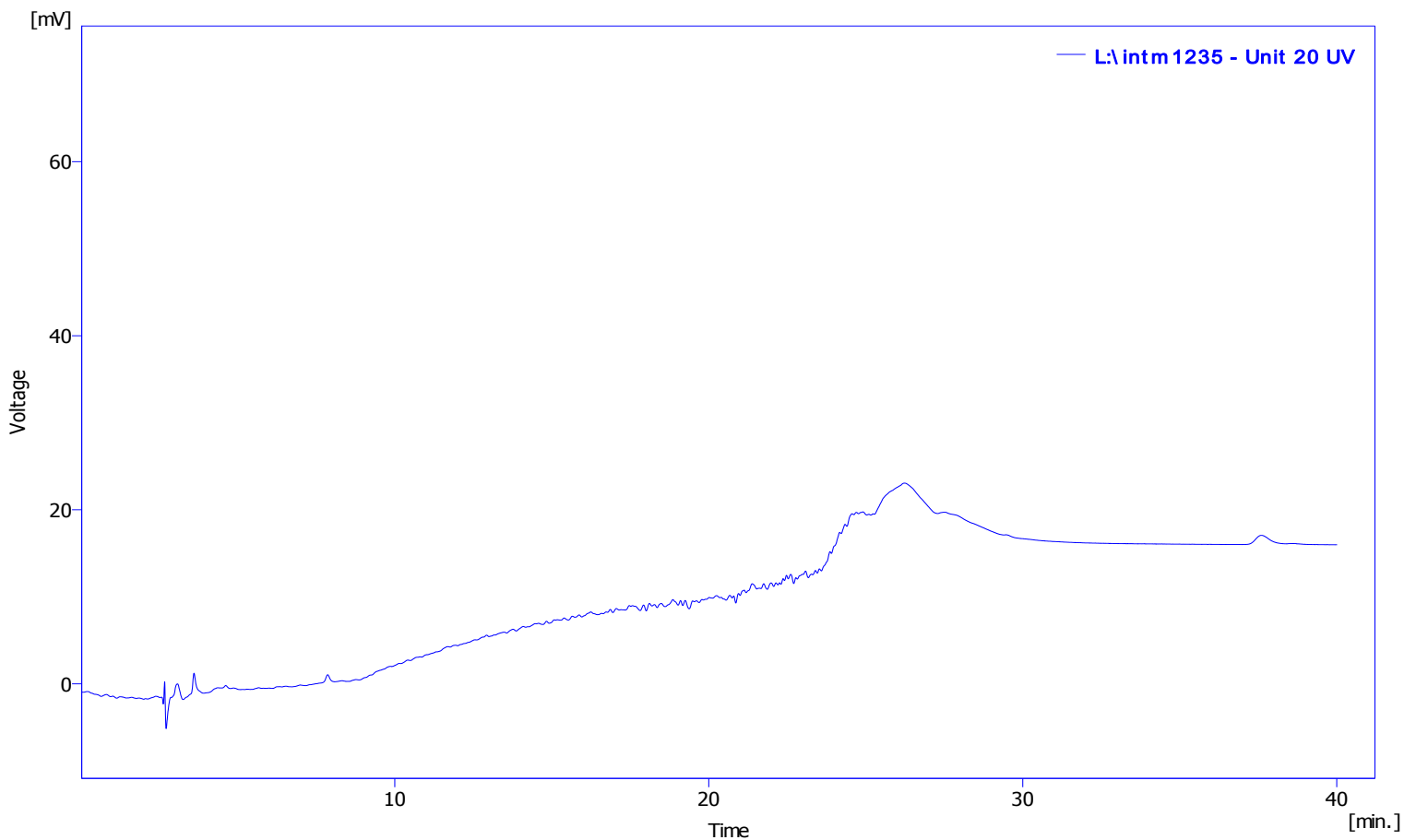
Result Table (Uncal - L:\intm1238 - Unit 20 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		4.99	50.587	4.11	0.51	0.57	5620.28	112405.52	0.91		
2		6.51	706.205	16.67	7.16	2.31	6985.36	139707.23	4.75		5.3
3		12.84	35.110	3.07	0.36	0.43	31587.59	631751.74	0.99		21.1
4		13.66	55.198	3.66	0.56	0.51	50317.23	1006344.69	2.41		3.1
5		15.96	8932.258	685.54	90.54	94.94	34131.74	682634.72	1.69		7.8
6		18.33	85.865	9.01	0.87	1.25	90635.48	1812709.57	1.15		8.1
		Total	9865.223	722.06	100.00	100.00					

**MT-901T**  
**Arachidonic acid, [5,6,8,9,11,12,14,15-3H(N)]-**  
**Lot 167-100-180-A-20081023-NT**

Chromatogram Info:

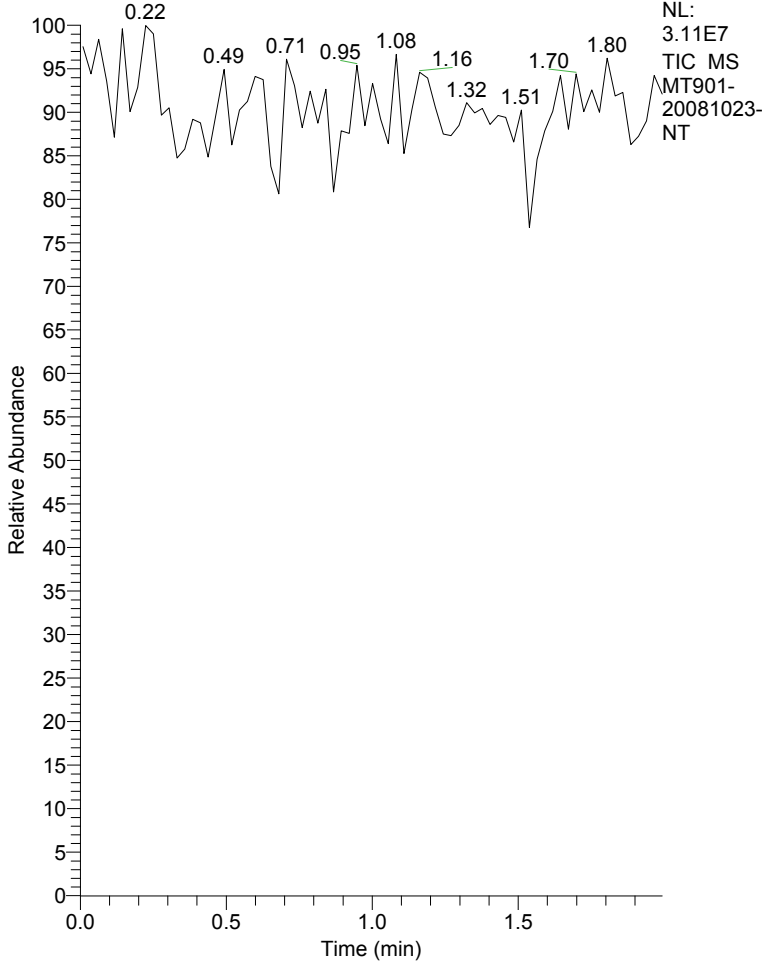
File Name	: L:\intm1235	File Created	: 3/19/2014 12:37:36 PM
Origin	: Acquired, Acquisition started 5/8/2009 7:21:34 AM	Acquired Date	: 5/8/2009 8:01:33 AM
Project	: Test	By	: Administrator
Method	: Unit_20_40_min_run	By	: Administrator
Description	: UV trace of blank injection	Modified	: 3/19/2014 12:50 PM
Created	: 4/12/2008 10:42 AM		
Column	:	Detection	: UV 220nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intm1235 - Unit 20 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
No peak to report										

RT: 0.00 - 1.99



MT901T-20081023-NT#1-75 RT: 0.01-1.99 AV:

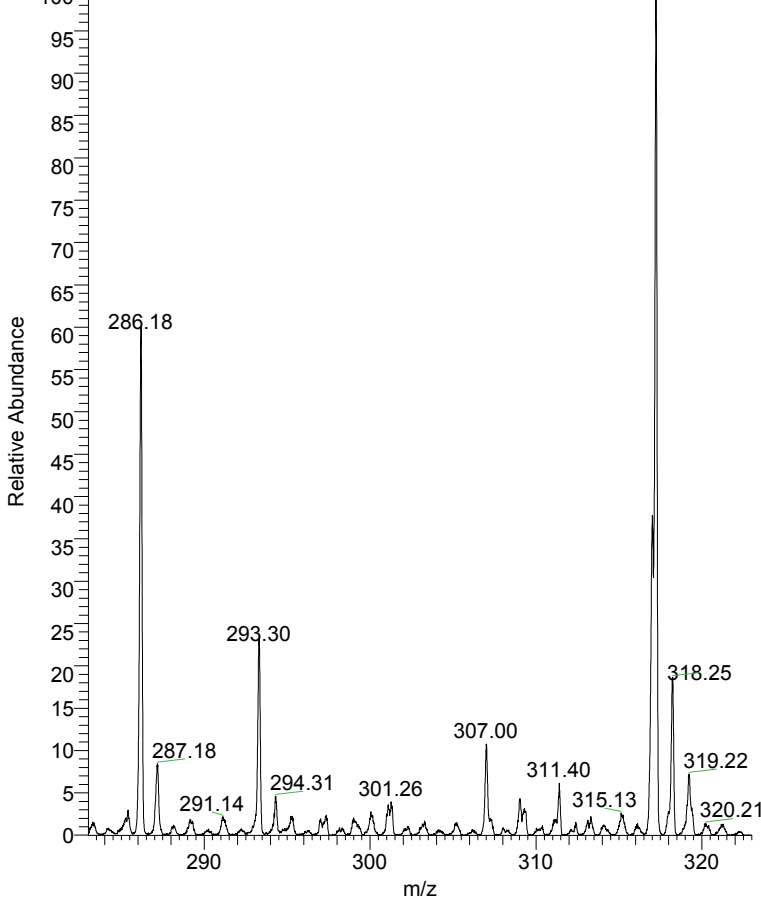
T: - p NSI Z ms [283.00-323.00]

m/z = 300.63-321.80

m/z	Intensity	Relative
301.16	569421.4	6.07
302.18	143739.8	1.53
303.19	233835.2	2.49
305.17	201777.7	2.15
307.02	918444.6	9.79
308.15	126622.9	1.35
309.05	449435.2	4.79
309.35	224185.2	2.39
310.20	161075.4	1.72
311.28	591594.3	6.30
312.27	164064.1	1.75
313.21	294201.3	3.14
314.13	182904.9	1.95
315.17	354697.6	3.78
316.13	171405.0	1.83
317.15	9383277.0	100.00
318.19	1509136.4	16.08
319.22	884529.4	9.43
320.25	202669.4	2.16
321.19	203423.0	2.17

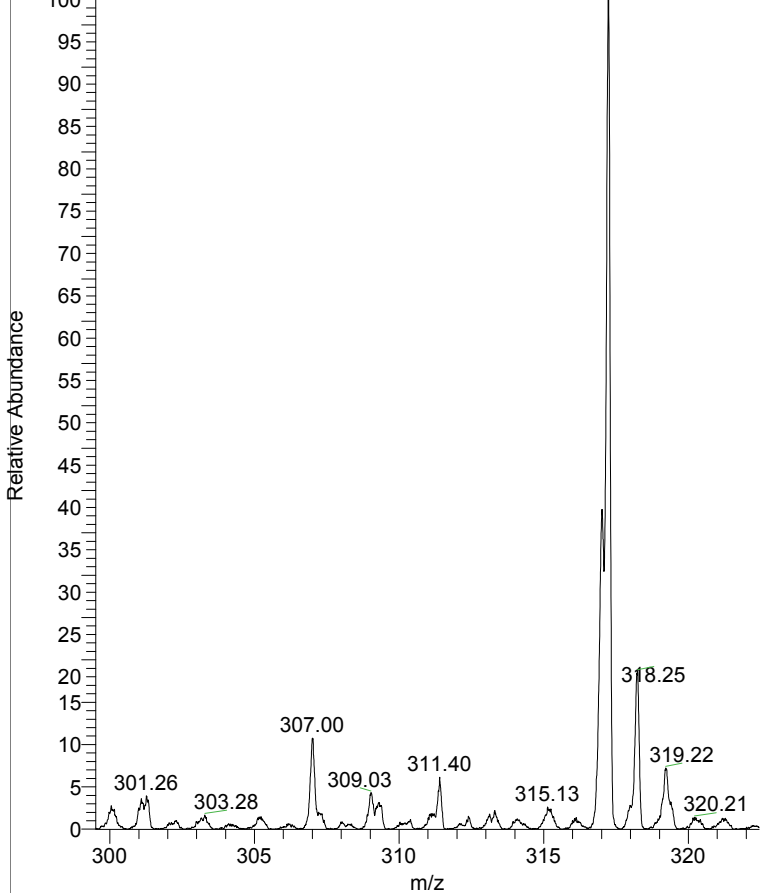
MT901T-20081023-NT #1-75 RT: 0.01-1.99 AV: 75 NL: 2.03E5

T: - p NSI Z ms [283.00-323.00]



MT901T-20081023-NT #1-75 RT: 0.01-1.99 AV: 75 NL: 2.03E5

T: - p NSI Z ms [283.00-323.00]



MT901T 3H NMR in MeOD  
Batch 20081023-NT



5.487  
5.436  
5.416  
5.398  
5.384  
5.332

Current Data Parameters  
NAME MT901T-20081023-NT  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20090508  
Time\_ 12.02  
INSTRUM spect  
PROBHD 5 mm DUX 3H-1H  
PULPROG zgpg  
TD 16384  
SOLVENT MeOD  
NS 1484  
DS 2  
SWH 6172.839 Hz  
FIDRES 0.376760 Hz  
AQ 1.3271540 sec  
RG 46341  
DW 81.000 usec  
DE 6.00 usec  
TE 300.0 K  
D1 2.00000000 sec  
d11 0.03000000 sec  
TD0 1

==== CHANNEL f1 =====  
NUC1 3H  
P1 10.00 usec  
PL1 2.00 dB  
SFO1 320.1321857 MHz

==== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 85.00 usec  
PL12 18.59 dB  
PL2 0.00 dB  
SFO2 300.1318534 MHz

F2 - Processing parameters  
SI 32768  
SF 320.1305850 MHz  
WDW no  
SSB 0  
LB 0.00 Hz  
GB 0  
PC 1.00

