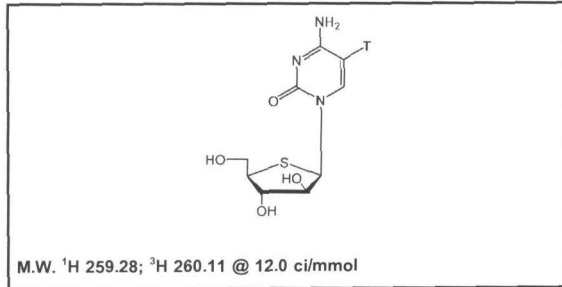


Product Data Sheet

MT-1655

4'-Thio-arabinofuranosyl cytosine, [5-³H]-



Lot #: 746-104-012-A-20090909-JP

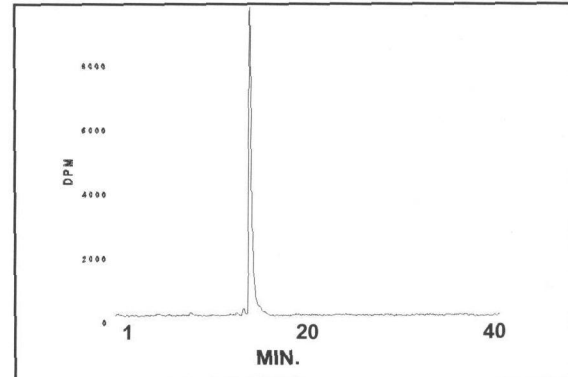
Specific Activity: 12.0 Ci/mmol

Concentration: 1.0 mCi/ml; 21.68 µg/ml

Packaged in: Ethanol : water (1 : 1) solution

Date of Analysis: September 09, 2009

Radiochemical Purity: 98.3%



HPLC ANALYSIS LOT 746-104-012-A-20090909-JP
File Name: intd2706 Date and Time: 9/9/2009 9:24:20 AM
Unit 13 Radio

Peak #	Area %	Time	Area
1	1.29	13.49330	279.55861
2	98.33	14.17670	21248.42340
3	0.37	15.06330	80.89904
Totals	100.00		21608.88105

Storage Recommendation: Store 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-1655

T-araC, [5-³H(N)]-

Lot 746-104-012-A-20090909-JP

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.

T-araC, [5-³H(N)]- concentration was 0.1 mCi/mL.

Volume of standard alone injection was 10.0 µL.

Volume of **T-araC, [5-³H(N)]-** alone injection was 5.0 µL.

Co-injection solution consisted of 5.0 µL **T-araC, [5-³H(N)]-** + 10.0 µL standard.

Volume of co-injection was 15.0 µL.

Volume of blank injection was 5.0 µL.

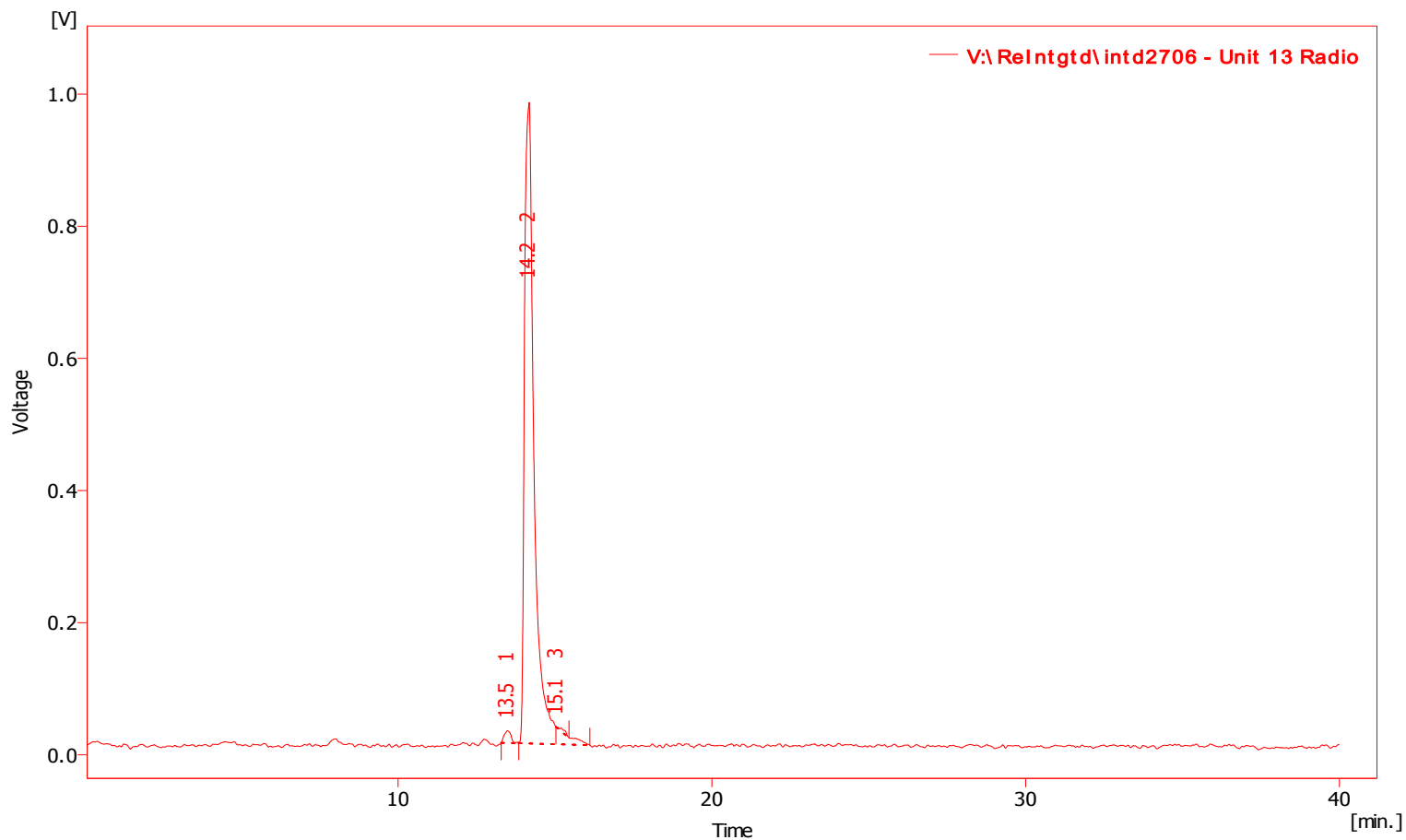
B) Mass spectrometry – Positive mode

C) NMR

MT-1655
T-araC, [5-3H(N)]-
Lot 746-104-012-A-20090909-JP

Chromatogram Info:

File Name	: V:\ReIntgtd\intd2706	File Created	: 3/27/2014 3:29:14 PM
Origin	: Acquired, Acquisition started 9/9/2009 8:44:21 AM	Acquired Date	: 9/9/2009 9:24:20 AM
Project	: Test	By	: Administrator
Method	: Unit13_40_min_run	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 3/27/2014 4:13 PM
Created	: 8/8/2007 9:26 AM	Detection	: Radiochemical
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



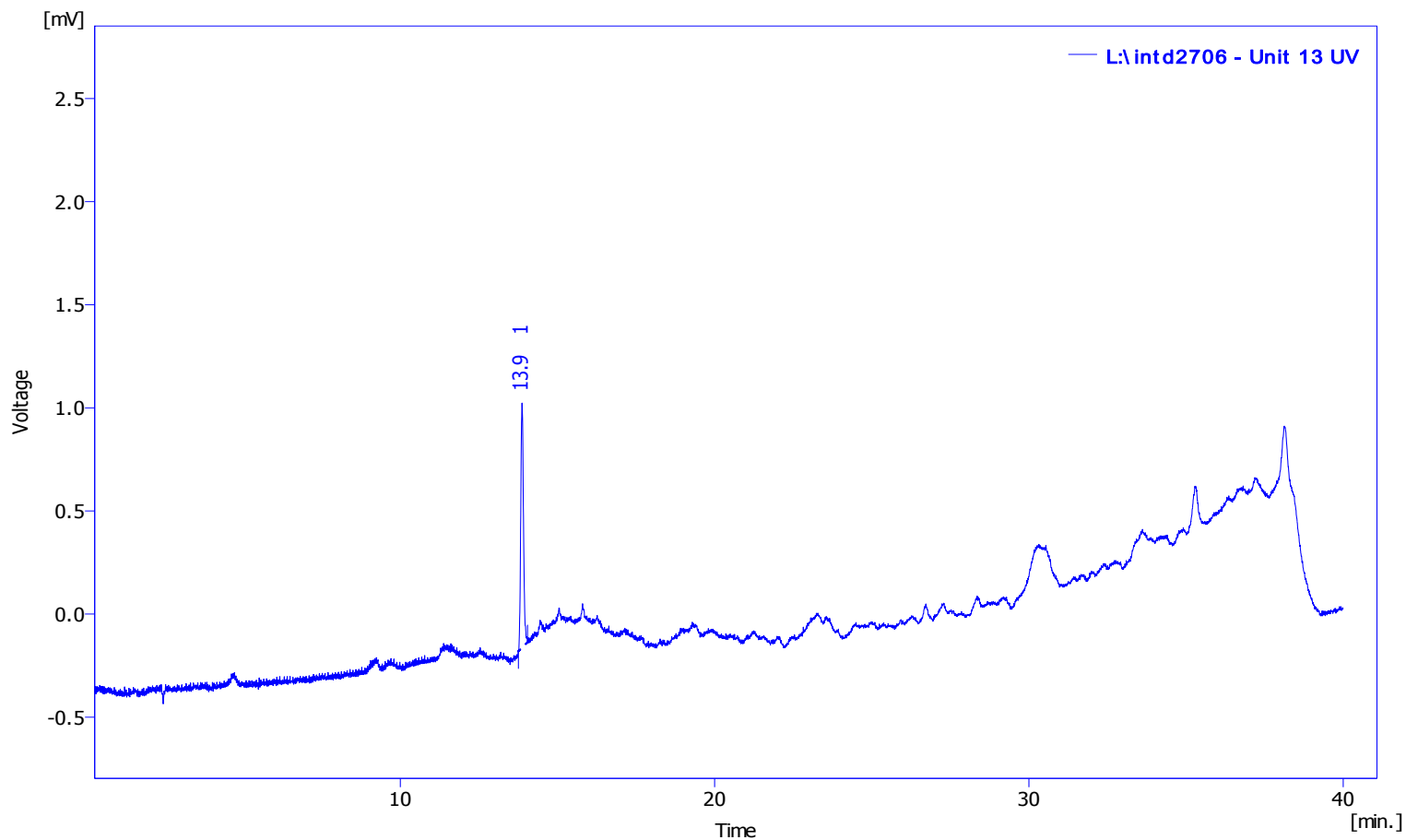
Result Table (Uncal - V:\ReIntgtd\intd2706 - Unit 13 Radio)

	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		13.49	279.559	18.48	1.29	1.87	18328.48	366569.63	1.01		
2		14.18	21248.423	970.28	98.33	97.99	0.00	0.00	3.43		1.4
3		15.06	80.899	1.39	0.37	0.14	30823.58	616471.58	6.15		2.8
		Total	21608.881	990.16	100.00	100.00					

MT-1655
T-araC, [5-3H(N)]-
Lot 746-104-012-A-20090909-JP

Chromatogram Info:

File Name	: L:\intd2706	File Created	: 3/27/2014 2:08:58 PM
Origin	: Acquired, Acquisition started 9/9/2009 8:44:21 AM	Acquired Date	: 9/9/2009 9:24:20 AM
Project	: Test	By	: Administrator
Method	: Unit13_40_min_run	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 3/27/2014 3:16 PM
Created	: 8/8/2007 9:26 AM		
Column	:	Detection	: UV 276nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



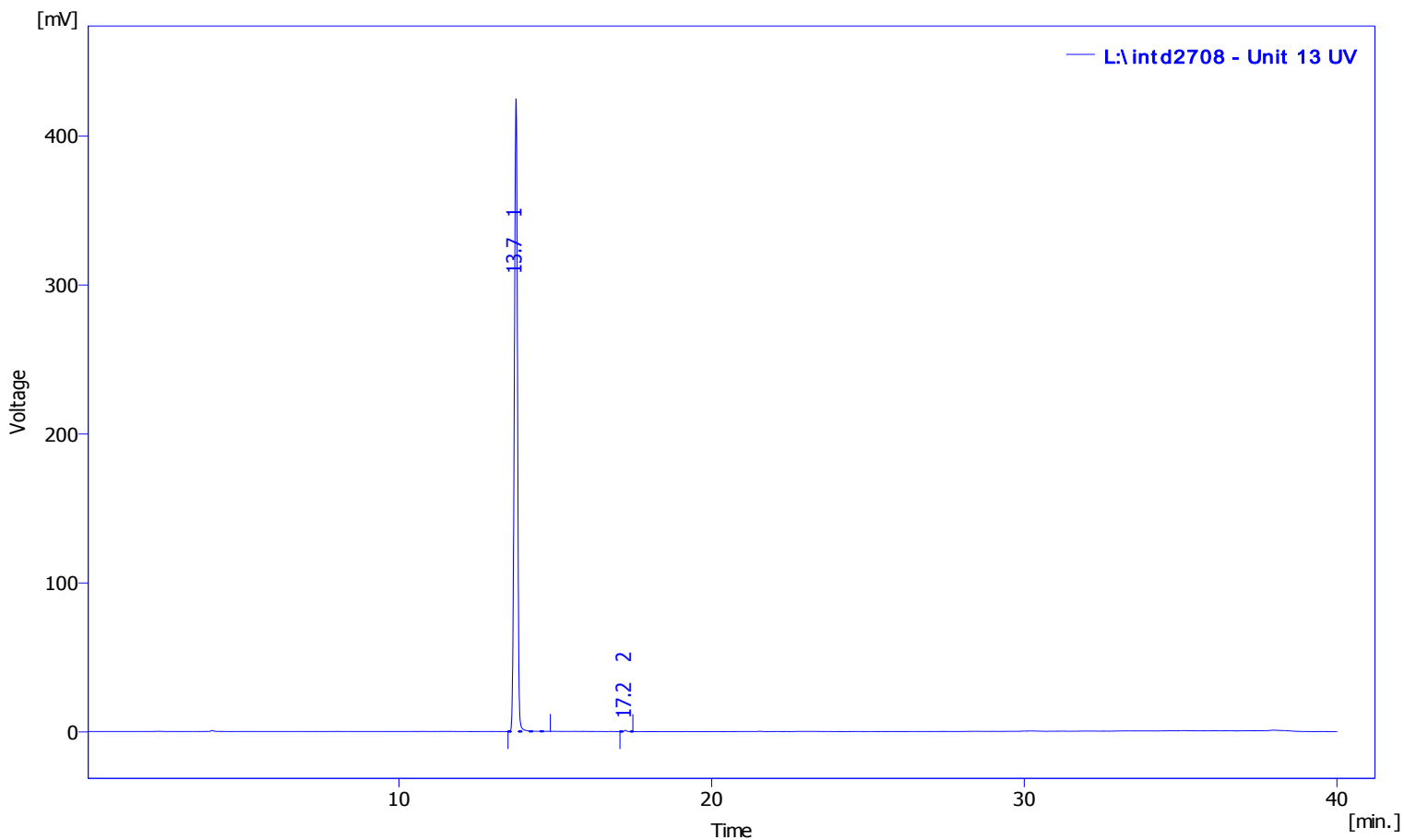
Result Table (Uncal - L:\intd2706 - Unit 13 UV)

	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 [-]
1		13.87	7.143	1.19	100.00	100.00	107808.03	2156160.68	1.14		
		Total	7.143	1.19	100.00	100.00					

MT-1655
T-araC, [5-3H(N)]-
Lot 746-104-012-A-20090909-JP

Chromatogram Info:

File Name	: L:\intd2708	File Created	: 3/27/2014 2:08:58 PM
Origin	: Acquired, Acquisition started 9/9/2009 10:35:19 AM	Acquired Date	: 9/9/2009 11:15:17 AM
Project	: Test	By	: Administrator
Method	: Unit13_40_min_run	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 3/27/2014 3:17 PM
Created	: 8/8/2007 9:26 AM		
Column	:	Detection	: UV 276nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



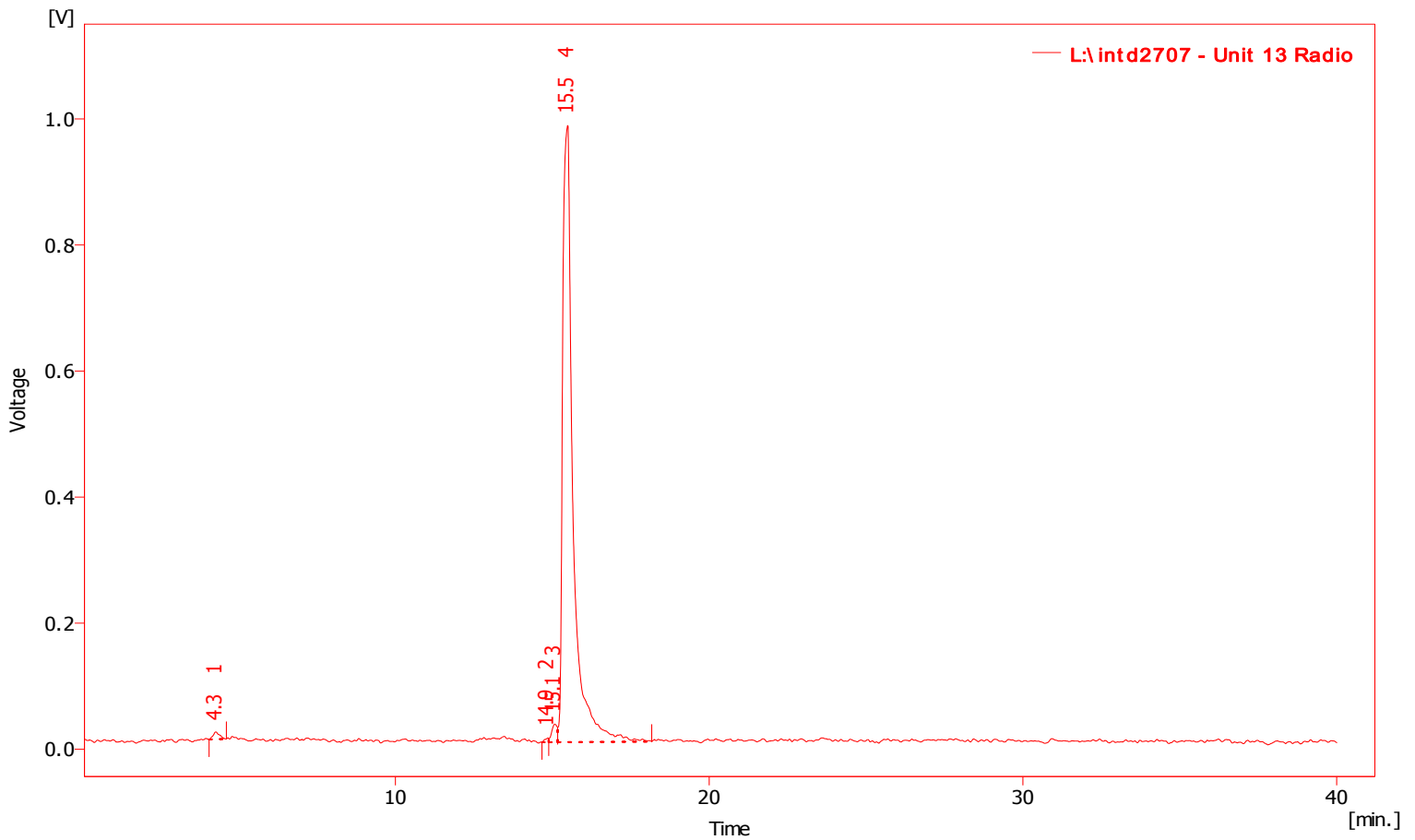
Result Table (Uncal - L:\intd2708 - Unit 13 UV)

	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 [-]
1		13.74	3047.607	424.82	99.85	99.81	57798.49	1155969.78	0.92		
2		17.24	4.684	0.83	0.15	0.19	115361.52	2307230.39	1.10		21.0
		Total	3052.291	425.65	100.00	100.00					

MT-1655
T-araC, [5-3H(N)]-
Lot 746-104-012-A-20090909-JP

Chromatogram Info:

File Name	: L:\intd2707	File Created	: 3/27/2014 2:08:58 PM
Origin	: Acquired, Acquisition started 9/9/2009 9:25:35 AM	Acquired Date	: 9/9/2009 10:05:33 AM
Project	: Test	By	: Administrator
Method	: Unit13_40_min_run	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 3/27/2014 3:19 PM
Created	: 8/8/2007 9:26 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



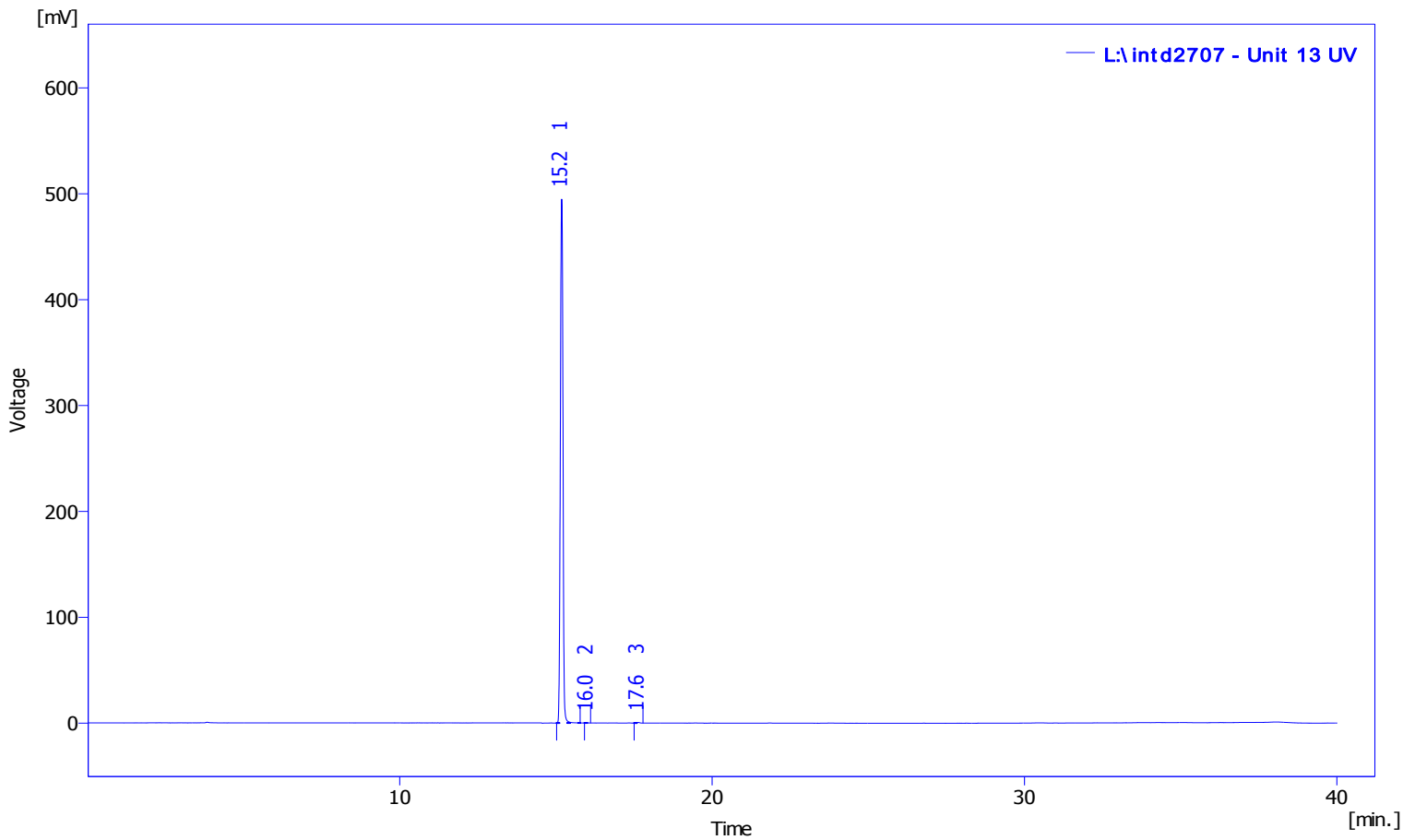
Result Table (Uncal - L:\intd2707 - Unit 13 Radio)

	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		4.28	169.271	11.62	0.73	1.13	1854.81	37096.30	1.22		
2		14.85	53.820	6.81	0.23	0.66	86565.25	1731305.04	0.60		31.5
3		15.07	342.586	28.81	1.48	2.81	47462.17	949243.30	0.77		0.7
4		15.49	22599.038	978.32	97.56	95.39	1933.65	38673.00	1.90		1.0
		Total	23164.716	1025.57	100.00	100.00					

MT-1655
T-araC, [5-3H(N)]-
Lot 746-104-012-A-20090909-JP

Chromatogram Info:

File Name	: L:\intd2707	File Created	: 3/27/2014 2:08:58 PM
Origin	: Acquired, Acquisition started 9/9/2009 9:25:35 AM	Acquired Date	: 9/9/2009 10:05:33 AM
Project	: Test	By	: Administrator
Method	: Unit13_40_min_run	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 3/27/2014 3:18 PM
Created	: 8/8/2007 9:26 AM		
Column	:	Detection	: UV 276nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



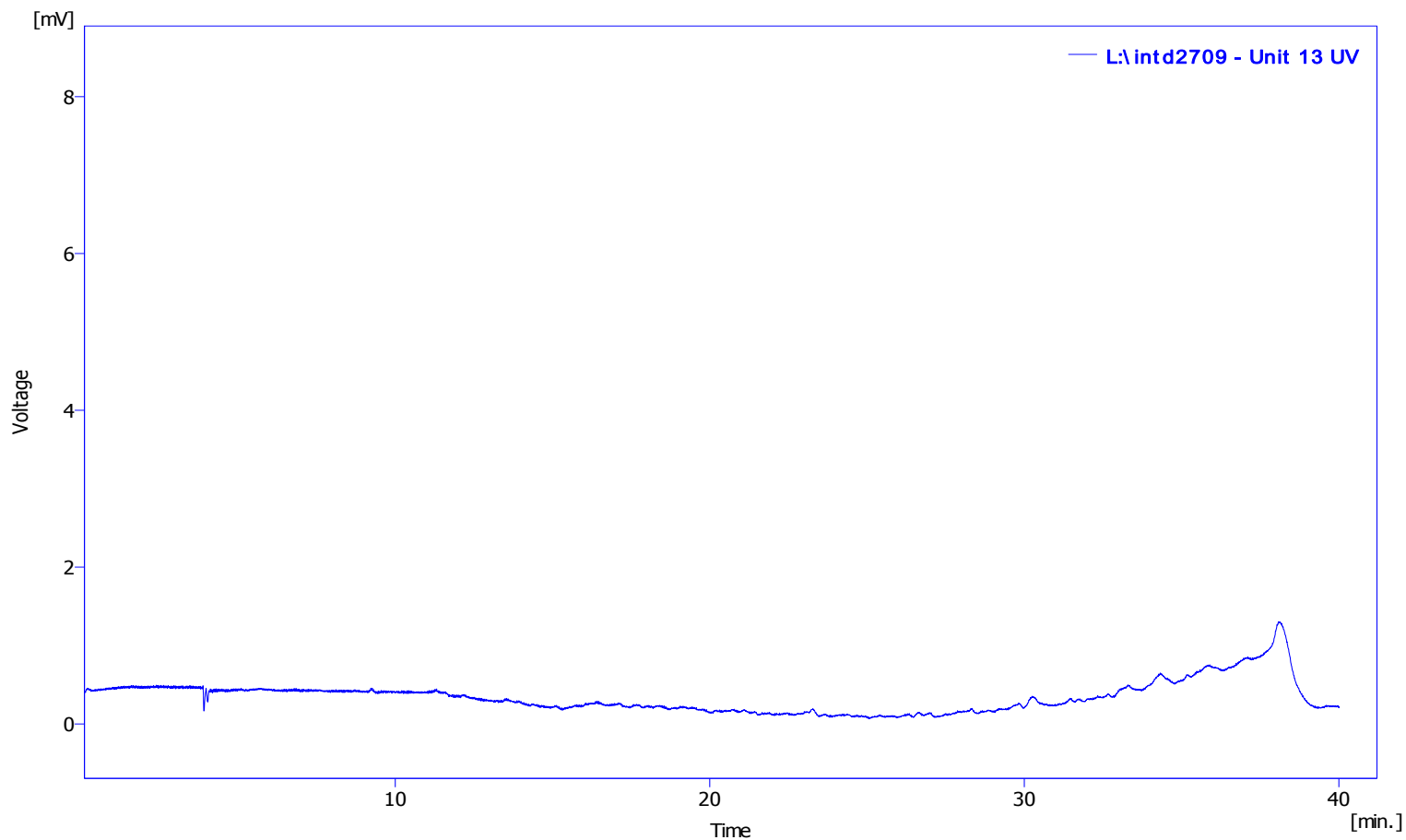
Result Table (Uncal - L:\intd2707 - Unit 13 UV)

	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		15.18	2886.820	494.74	99.84	99.85	133730.95	2674618.98	1.00		
2		15.99	0.881	0.16	0.03	0.03	190186.56	3803731.17	1.20		4.9
3		17.63	3.686	0.59	0.13	0.12	175649.11	3512982.17	0.98		10.0
		Total	2891.387	495.49	100.00	100.00					

MT-1655
T-araC, [5-3H(N)]-
Lot 746-104-012-A-20090909-JP

Chromatogram Info:

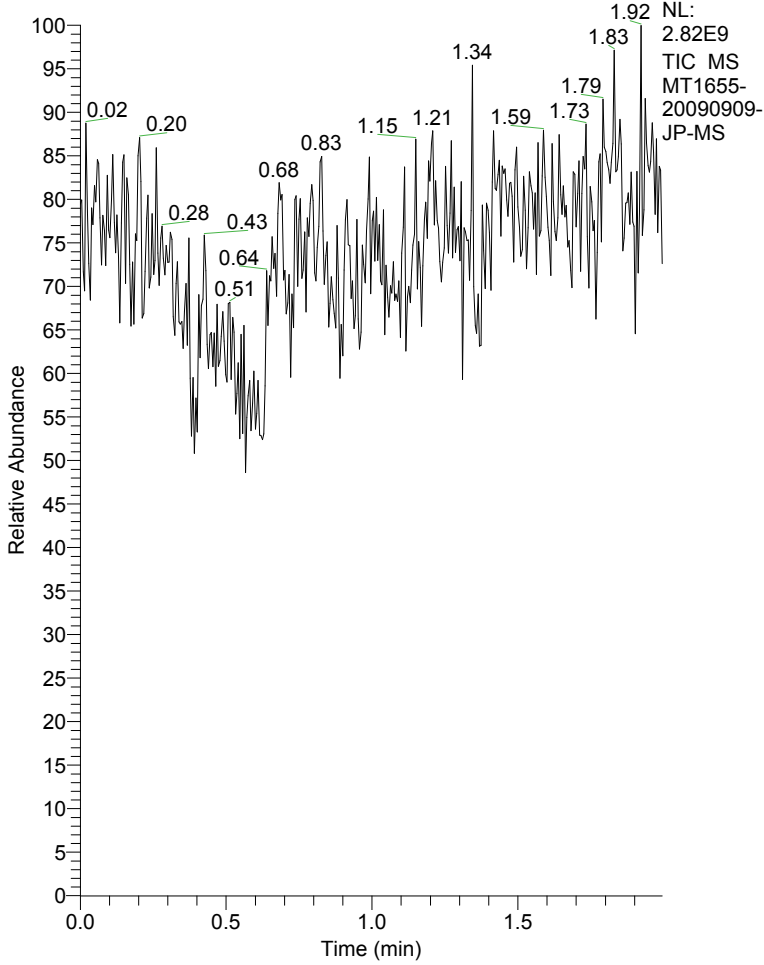
File Name	: L:\intd2709	File Created	: 3/27/2014 2:08:58 PM
Origin	: Acquired, Acquisition started 9/9/2009 11:16:35 AM	Acquired Date	: 9/9/2009 11:56:34 AM
Project	: Test	By	: Administrator
Method	: Unit13_40_min_run	By	: Administrator
Description	: UV trace of blank injection	Modified	: 3/27/2014 3:23 PM
Created	: 8/8/2007 9:26 AM		
Column	:	Detection	: UV 276nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intd2709 - Unit 13 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



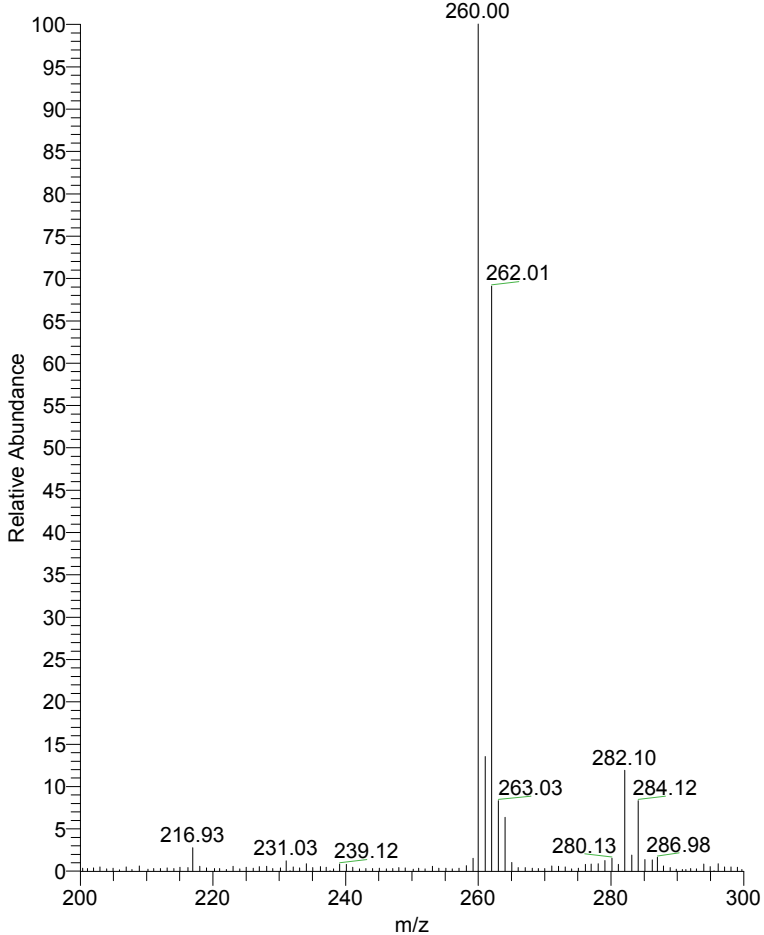
MT1655-20090909-JP-MS#1-413 RT: 0.00-1.99

T: + c NSI Full ms [200.00-300.00]

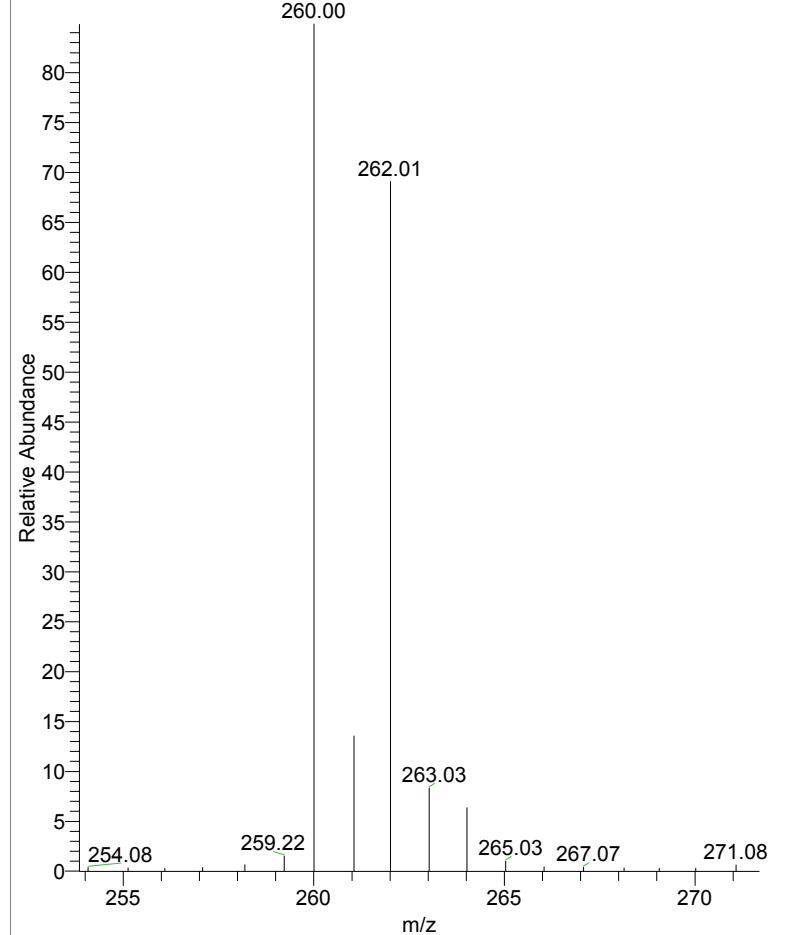
m/z = 258.58-268.22

m/z	Intensity	Relative
259.22	11724688.9	1.50
260.00	783216298.2	100.00
261.05	105765095.2	13.50
262.01	540838713.6	69.05
263.03	65031396.5	8.30
264.02	49707447.4	6.35
265.03	7708760.0	0.98
266.04	3043018.8	0.39
267.07	2992501.6	0.38
268.14	2413480.3	0.31

MT1655-20090909-JP-MS #1-413 RT: 0.00-1.99 AV: 413 NL: 7.83E8
T: + c NSI Full ms [200.00-300.00]



MT1655-20090909-JP-MS #1-413 RT: 0.00-1.99 AV: 413 NL: 7.83E8
T: + c NSI Full ms [200.00-300.00]



MT1655 3H NMR in MeOD
Batch 20090909-JP



BRUKER

5.934

NAME MT1655
EXPNO 1
PROCNO 1
Date_ 20090909
Time_ 21.15
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT MeOD
NS 5000
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
TD0 1

==== CHANNEL f1 =====
NUC1 3H
P1 10.00 usec
PL1 2.00 dB
SFO1 320.1321857 MHz
SI 32768
SF 320.1305850 MHz
WDW EM
SSB 0
LB 1.80 Hz
GB 0
PC 1.00

