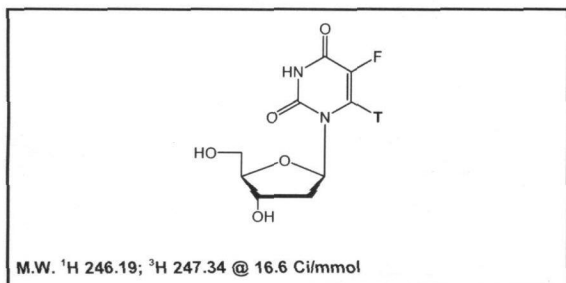




Product Data Sheet

MT-683

2'-Deoxy-5-fluorouridine, [6-³H]-



Lot #: 167-157-0166-A-20070120-MW

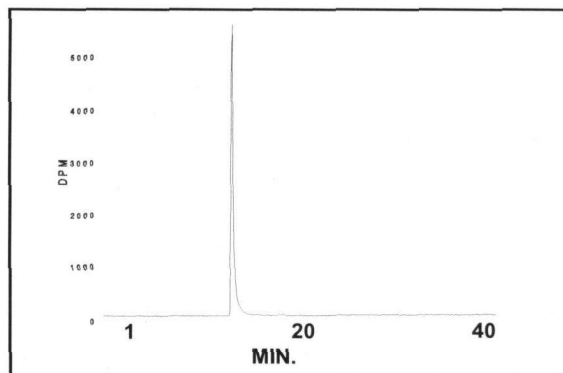
Specific Activity: 16.6 Ci/mmol

Concentration: 1.0 mCi/ml; 14.90 µg/ml

Packaged in: Ethanol : water (7 : 3) solution

Date of Analysis: October 21, 2009

Radiochemical Purity: 99.1%



HPLC ANALYSIS LOT 167-157-0166-A-20070120-MW
File Name: int20269 Date and Time: 10/21/2009 1:06:09 P
Unit 2 Radio

Peak #	Area %	Time	Area
1	99.14	13.18670	10327.79828
2	0.86	18.42330	89.23750
Totals	100.00		10417.03578

Stability and Storage Recommendation: The rate of decomposition is approximately 0.5%/ 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-683

2'-Deoxy-5-fluorouridine, [6-³H]-

Lot 167-157-0166-A-20070120-MW

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

Concentrations and volumes:

Standard solution concentration was 0.5 mg/mL.

2'-Deoxy-5-fluorouridine, [6-³H]- concentration was 0.1 mCi/mL.

Volume of standard alone injection was 2.0 µL

Volume of **2'-Deoxy-5-fluorouridine, [6-³H]-** alone injection was 2.0 µL.

Co-injection solution consisted of 2.0 µL **2'-Deoxy-5-fluorouridine, [6-³H]-** + 2.0 µL standard.

Volume of co-injection was 4.0 µL.

Volume of blank injection was 2.0 µL.

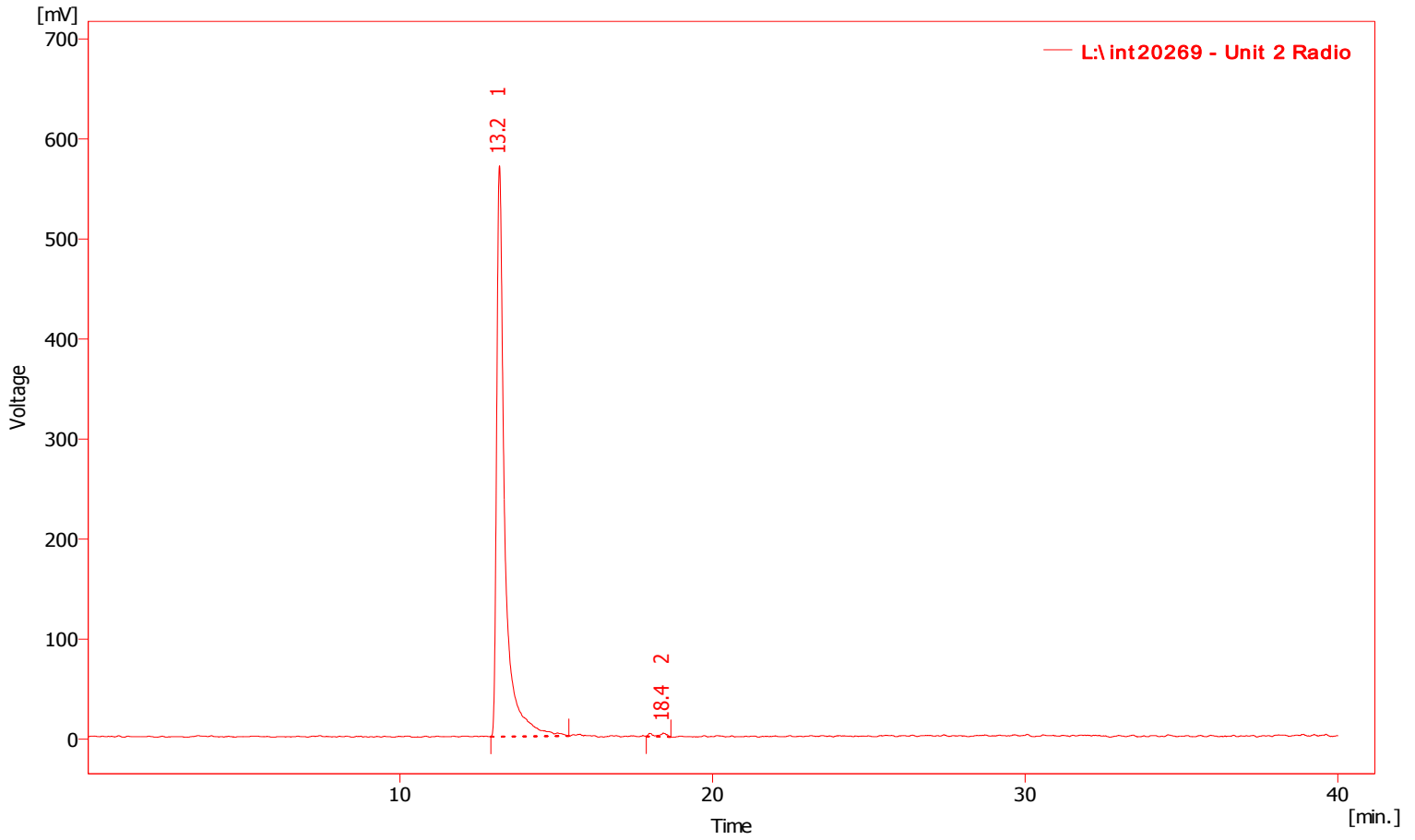
B) Mass spectrometry – Negative mode

C) NMR

MT-683
2'-Deoxy-5-fluorouridine, [6-3H]-
Lot 167-157-0166-A-20070120-MW

Chromatogram Info:

File Name	: L:\int20269	File Created	: 3/5/2014 9:25:11 AM
Origin	: Acquired, Acquisition started 10/21/2009 12:26:11 PM	Acquired Date	: 10/21/2009 1:06:09 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 3/5/2014 9:36 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



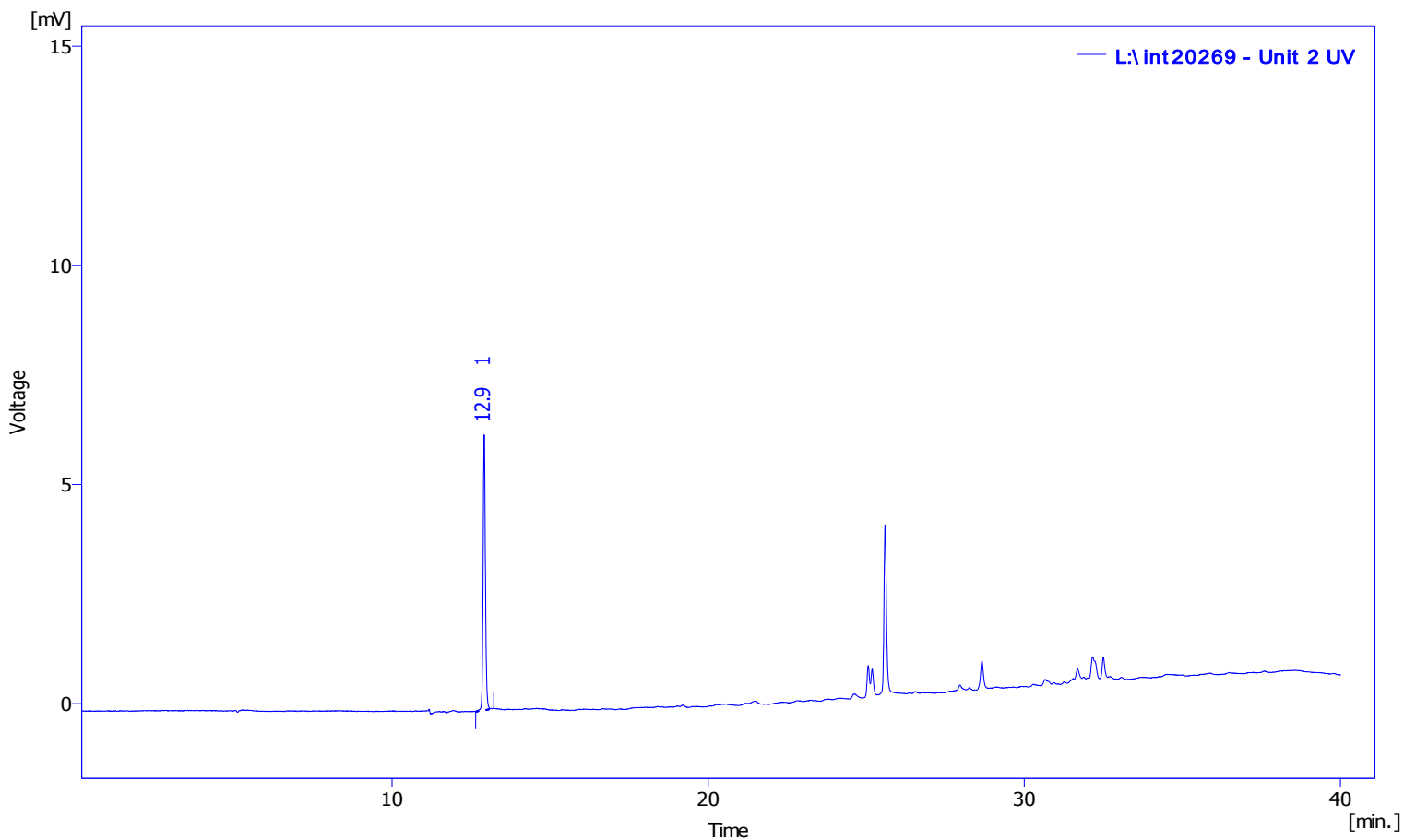
Result Table (Uncal - L:\int20269 - Unit 2 Radio)

	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		13.19	10327.798	570.65	99.14	99.31	18210.60	364211.91	2.12		
2		18.42	89.237	3.96	0.86	0.69	50307.50	1006149.93	0.71		14.6
		Total	10417.036	574.61	100.00	100.00					

MT-683
2'-Deoxy-5-fluorouridine, [6-3H]-
Lot 167-157-0166-A-20070120-MW

Chromatogram Info:

File Name	: L:\int20269	File Created	: 3/5/2014 9:25:11 AM
Origin	: Acquired, Acquisition started 10/21/2009 12:26:11 PM	Acquired Date	: 10/21/2009 1:06:09 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 3/5/2014 9:35 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 268nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



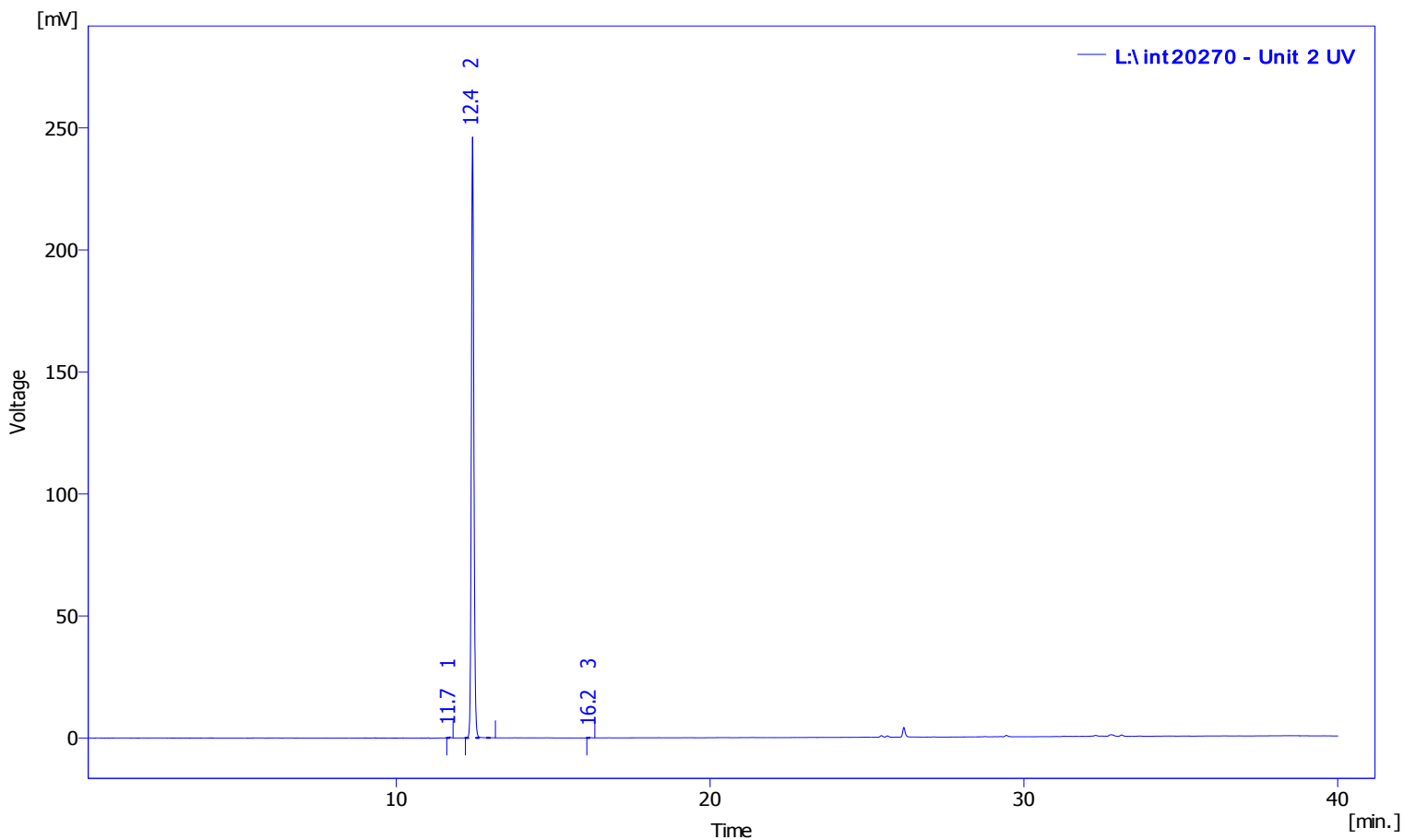
Result Table (Uncal - L:\int20269 - Unit 2 UV)

	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		12.92	31.893	6.29	100.00	100.00	144421.12	2888422.31	1.10		
		Total	31.893	6.29	100.00	100.00					

MT-683
2'-Deoxy-5-fluorouridine, [6-3H]-
Lot 167-157-0166-A-20070120-MW

Chromatogram Info:

File Name	: L:\int20270	File Created	: 3/5/2014 9:25:11 AM
Origin	: Acquired, Acquisition started 10/21/2009 1:41:25 PM	Acquired Date	: 10/21/2009 2:21:24 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 3/5/2014 9:37 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 268nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



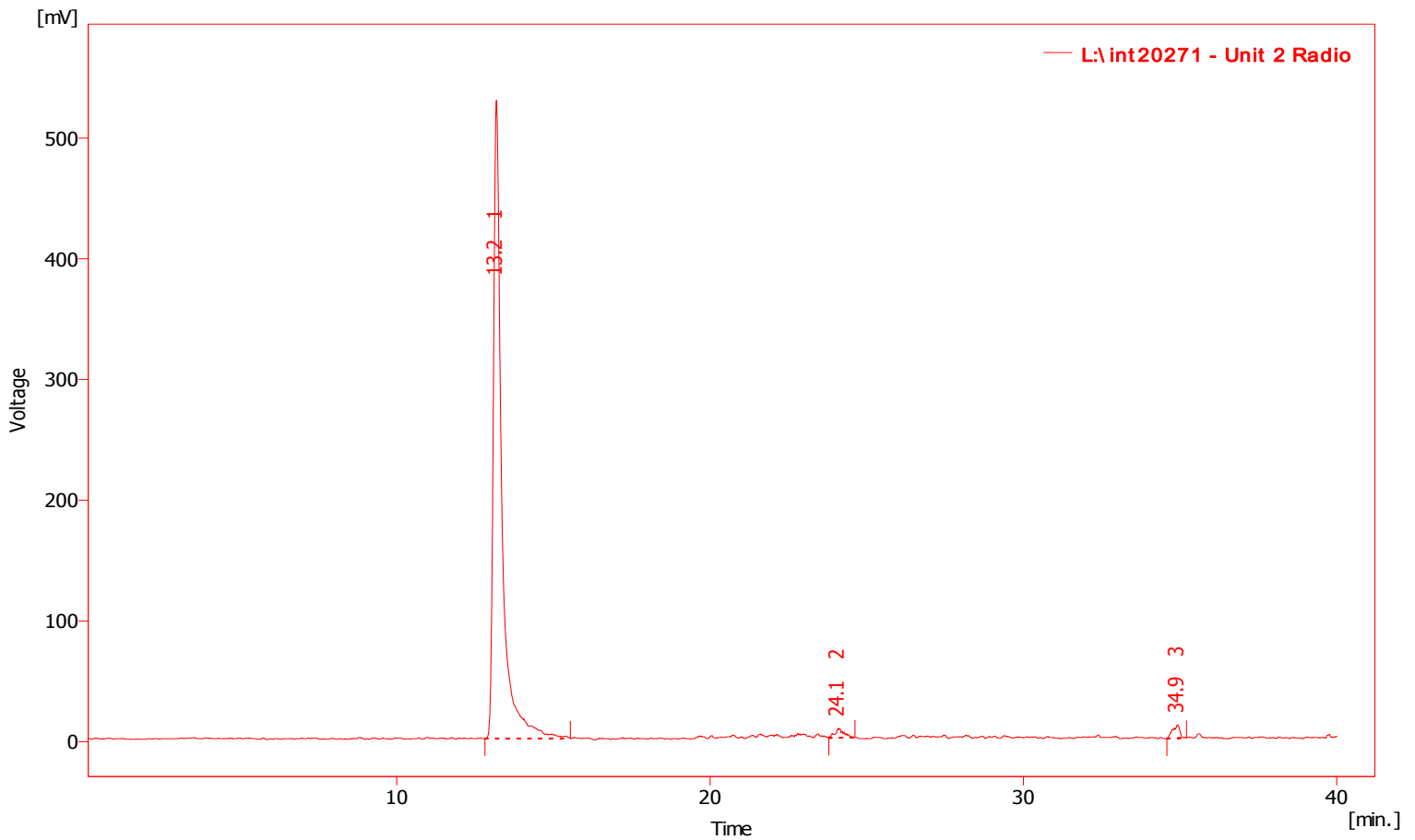
Result Table (Uncal - L:\int20270 - Unit 2 UV)

	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		11.70	1.682	0.43	0.12	0.17	189175.21	3783504.17	1.21		
2		12.43	1365.048	246.18	99.81	99.75	105673.72	2113474.43	1.12		5.6
3		16.17	0.871	0.18	0.06	0.07	246443.09	4928861.76	1.33		26.5
		Total	1367.601	246.79	100.00	100.00					

MT-683
2'-Deoxy-5-fluorouridine, [6-3H]-
Lot 167-157-0166-A-20070120-MW

Chromatogram Info:

File Name	: L:\int20271	File Created	: 3/5/2014 9:25:11 AM
Origin	: Acquired, Acquisition started 10/21/2009 2:54:28 PM	Acquired Date	: 10/21/2009 3:34:26 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 3/5/2014 9:38 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



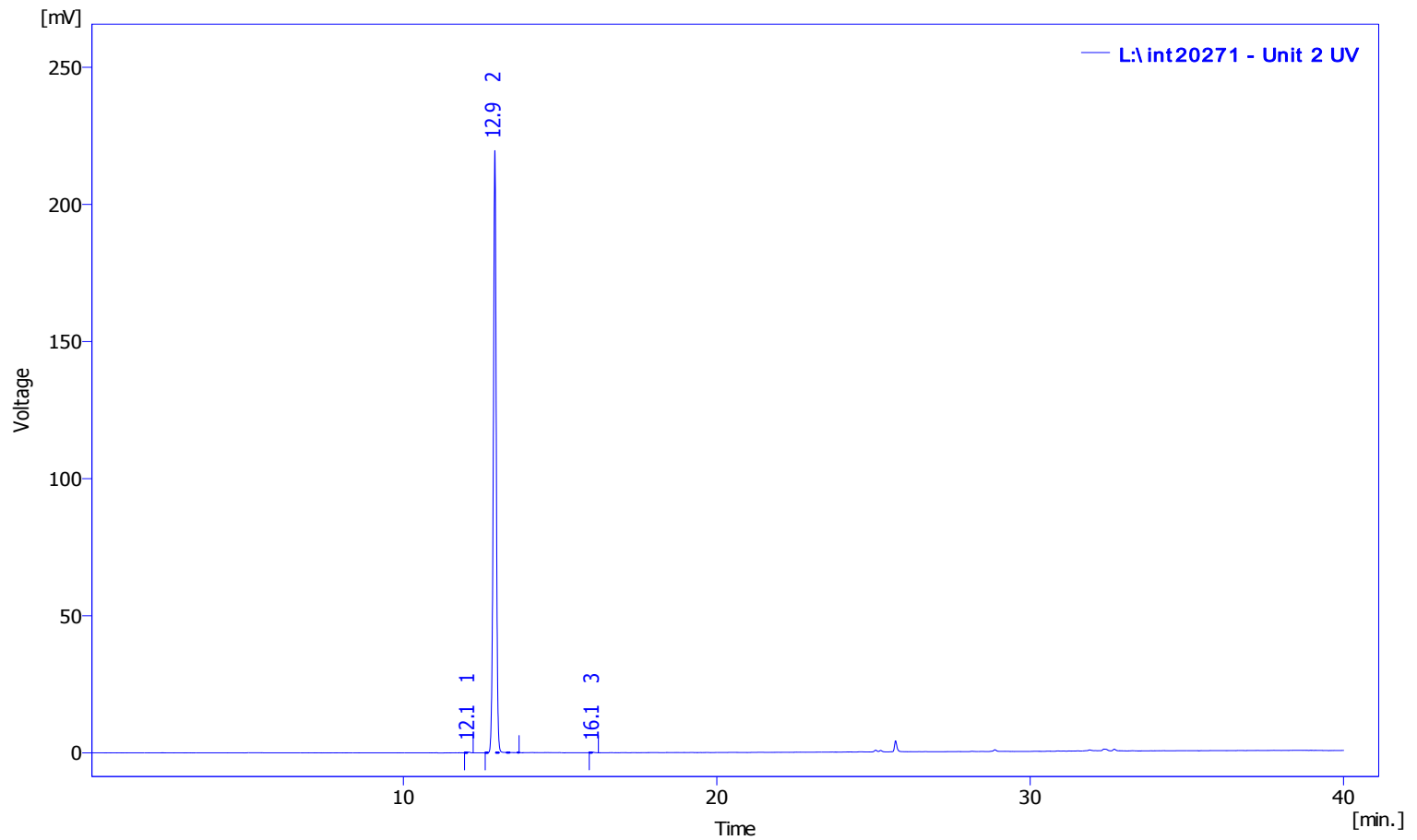
Result Table (Uncal - L:\int20271 - Unit 2 Radio)

	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		13.18	9912.057	528.85	96.80	96.55	16707.76	334155.10	1.98		
2		24.09	151.009	7.83	1.47	1.43	72882.72	1457654.43	1.22		28.6
3		34.93	176.413	11.07	1.72	2.02	82237.45	1644749.06	0.78		25.8
		Total	10239.479	547.75	100.00	100.00					

MT-683
2'-Deoxy-5-fluorouridine, [6-3H]-
Lot 167-157-0166-A-20070120-MW

Chromatogram Info:

File Name	: L:\int20271	File Created	: 3/5/2014 9:25:11 AM
Origin	: Acquired, Acquisition started 10/21/2009 2:54:28 PM	Acquired Date	: 10/21/2009 3:34:26 PM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 3/5/2014 9:38 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 268nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



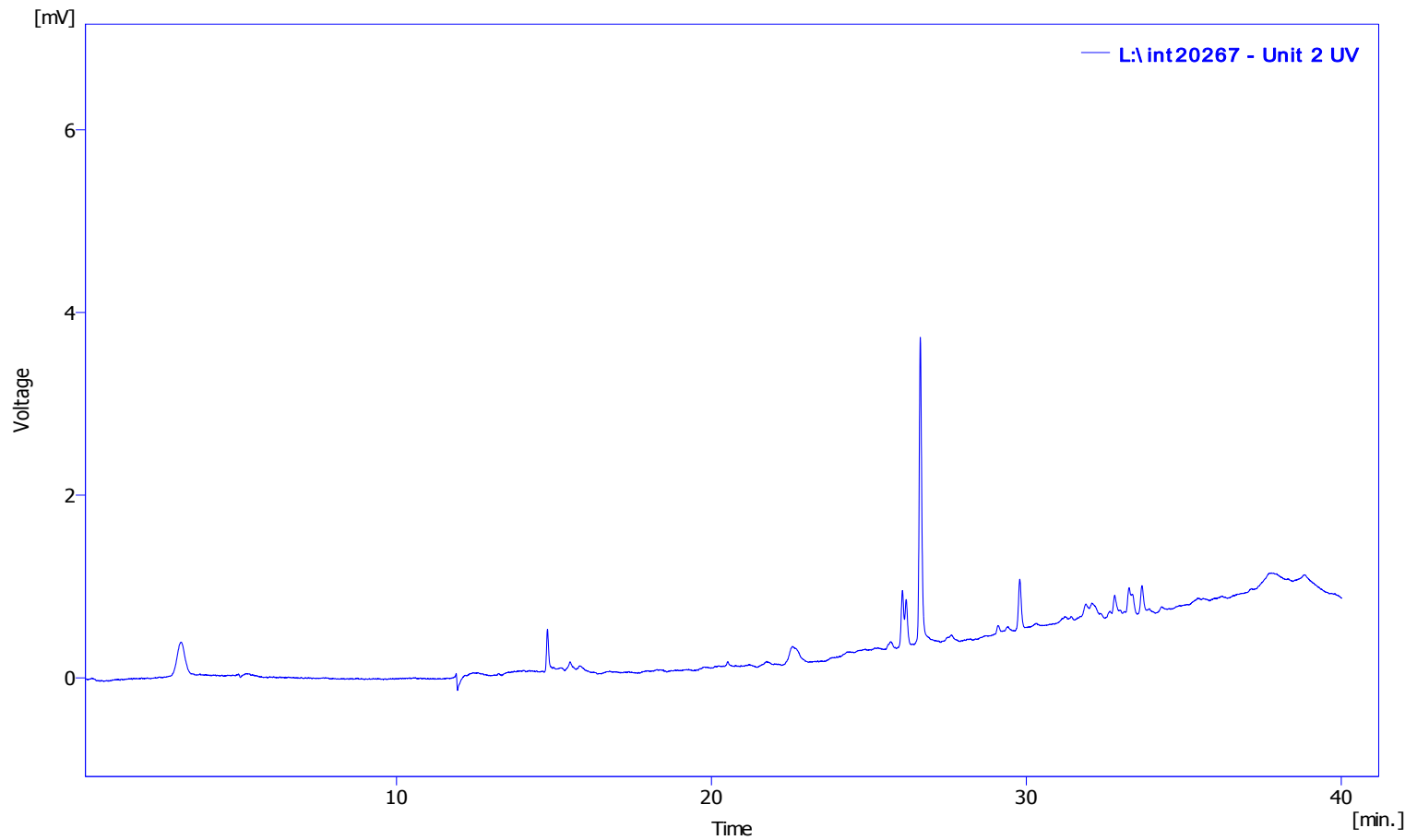
Result Table (Uncal - L:\int20271 - Unit 2 UV)

	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		12.08	1.625	0.26	0.11	0.12	86514.75	1730294.96	1.04		
2		12.92	1431.754	219.58	99.81	99.80	92477.23	1849544.51	0.95		5.0
3		16.06	1.079	0.19	0.08	0.09	205675.73	4113514.53	1.22		20.2
		Total	1434.458	220.03	100.00	100.00					

MT-683
2'-Deoxy-5-fluorouridine, [6-3H]-
Lot 167-157-0166-A-20070120-MW

Chromatogram Info:

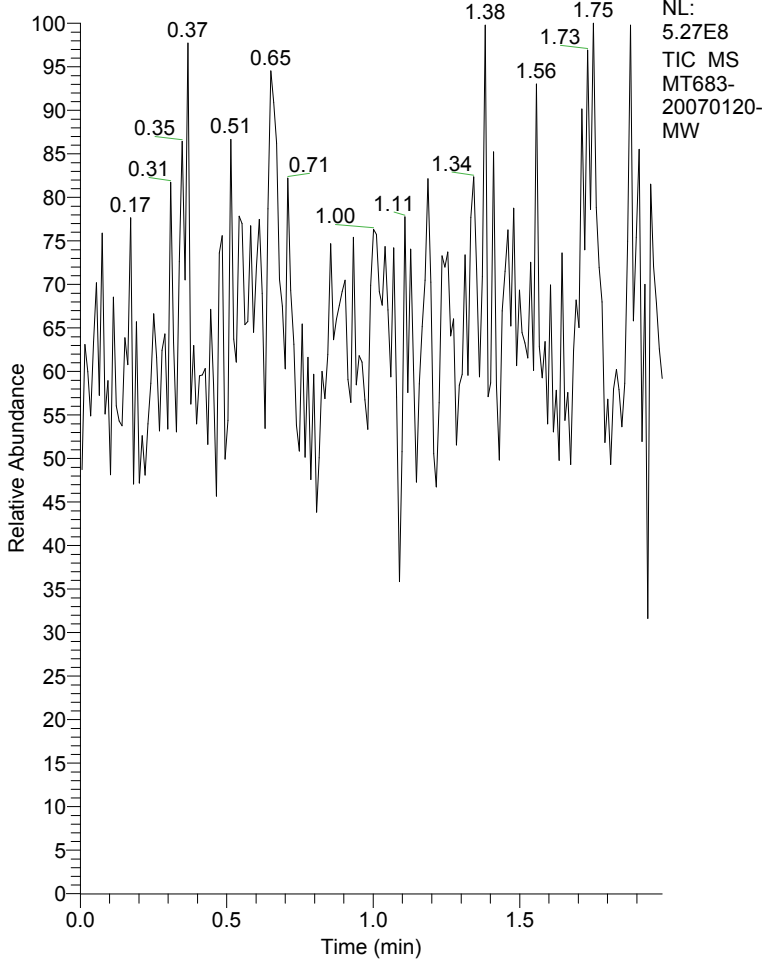
File Name	: L:\int20267	File Created	: 3/5/2014 9:25:11 AM
Origin	: Acquired, Acquisition started 10/21/2009 9:58:49 AM	Acquired Date	: 10/21/2009 10:38:47 AM
Project	: Test	By	: Administrator
Method	: Unit2-40minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 3/5/2014 9:39 AM
Created	: 6/16/2007 8:19 AM		
Column	:	Detection	: UV 268nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int20267 - Unit 2 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 [-]
No peak to report										

RT: 0.00 - 1.99



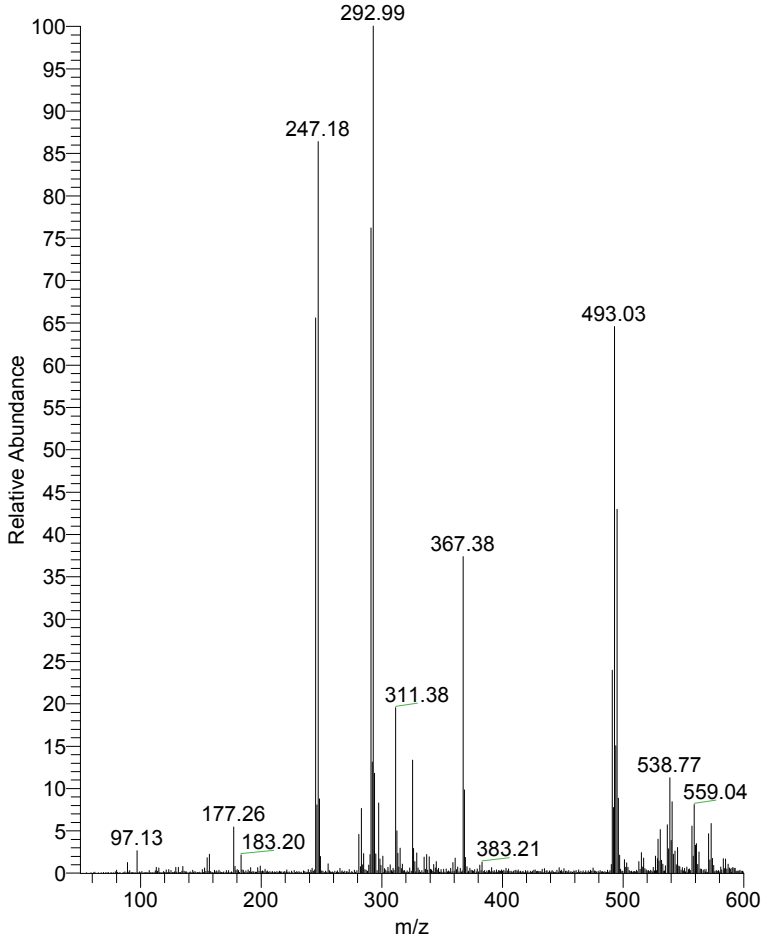
MT683-20070120-MW#1-204 RT: 0.01-1.99 AV:

T: - c NSI Full ms [50.00-600.00]

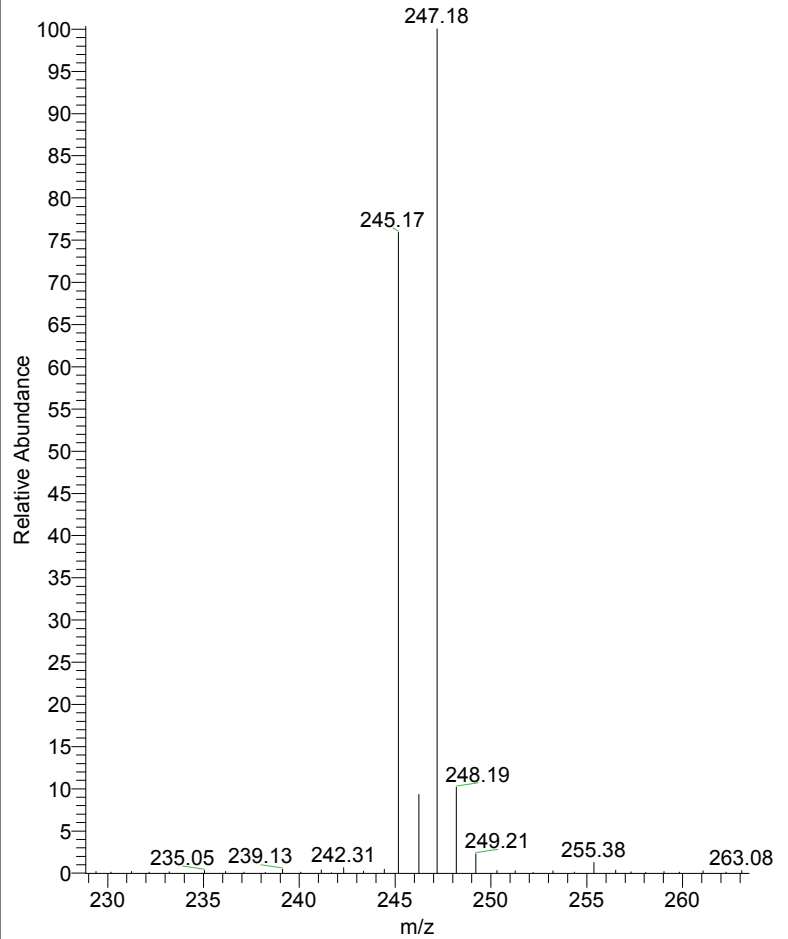
m/z= 239.86-260.80

m/z	Intensity	Relative
243.35	71335.3	0.22
244.44	138308.0	0.43
245.17	24444243.4	75.88
246.24	2998737.0	9.31
247.18	32215306.2	100.00
248.19	3268439.4	10.15
249.21	724772.3	2.25
250.31	87287.9	0.27
251.27	75833.8	0.24
252.20	15681.8	0.05
253.24	77436.7	0.24
254.35	36533.6	0.11
255.38	399175.2	1.24
256.51	98989.0	0.31
257.30	44114.3	0.14
259.03	54699.6	0.17
259.82	24978.0	0.08

MT683-20070120-MW #1-204 RT: 0.01-1.99 AV: 204 NL: 3.73E7
T: - c NSI Full ms [50.00-600.00]



MT683-20070120-MW #1-204 RT: 0.01-1.99 AV: 204 NL: 3.22E7
T: - c NSI Full ms [50.00-600.00]



MT683 3H NMR in MeOD
Batch 20070120-MW

0.256
0.236



NAME MT683
EXPNO 1
PROCNO 1
Date_ 20090908
Time_ 12.59
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT MeOD
NS 3171
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
SF01 320.1321857 MHz
SI 32768
SF 320.1305850 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

