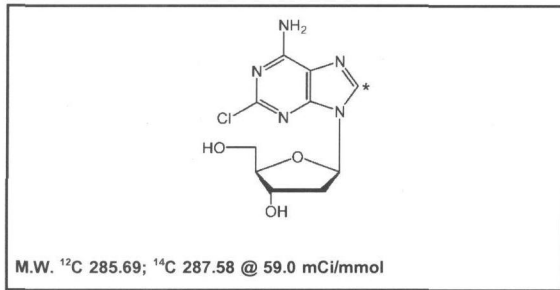




Product Data Sheet

MC-1418

2-Chloro-2'-deoxyadenosine, [8-¹⁴C]-



Lot #: 167-129-059-A-20090702-JK

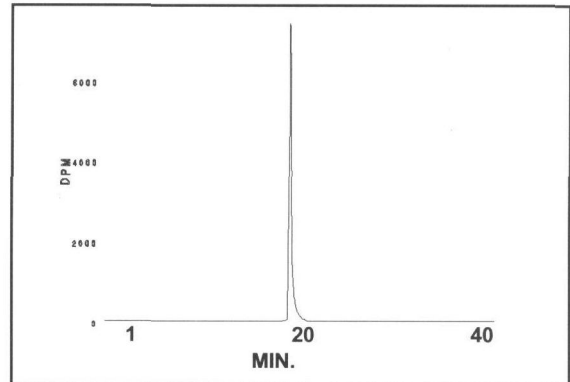
Specific Activity: 59 mCi/mmol

Concentration: 0.1 mCi/ml; 487.43 µg/ml

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

Date of Analysis: July 10, 2009

Radiochemical Purity: 99.4%



HPLC ANALYSIS LOT 167-129-059-A-20090702-JK
File Name: int42009 Date and Time: 7/10/2009 9:25:08 AM
Unit 4 Radio

Peak #	Area %	Time	Area
1	0.22	18.49670	33.38519
2	0.22	18.71330	33.72796
3	99.48	19.04330	15203.94616
4	0.08	20.40670	11.62724
Totals	100.00		15282.68655

Stability and 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.

MC-1418

2-Chloro-2'-deoxyadenosine, [8-¹⁴C]-

Lot 167-129-059-A-20090702-JK

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.

2-Chloro-2'-deoxyadenosine, [8-¹⁴C]- concentration was 0.1 mCi/ml.

Volume of standard alone injection was 1.5 µl

Volume of **2-Chloro-2'-deoxyadenosine, [8-¹⁴C]-** alone injection was 1.5 µl.

Co-injection solution consisted of 1.5 µl **2-Chloro-2'-deoxyadenosine, [8-¹⁴C]-** + 1.5 µl standard.

Volume of co-injection was 3.0 µl.

Volume of blank injection was 1.5 µl.

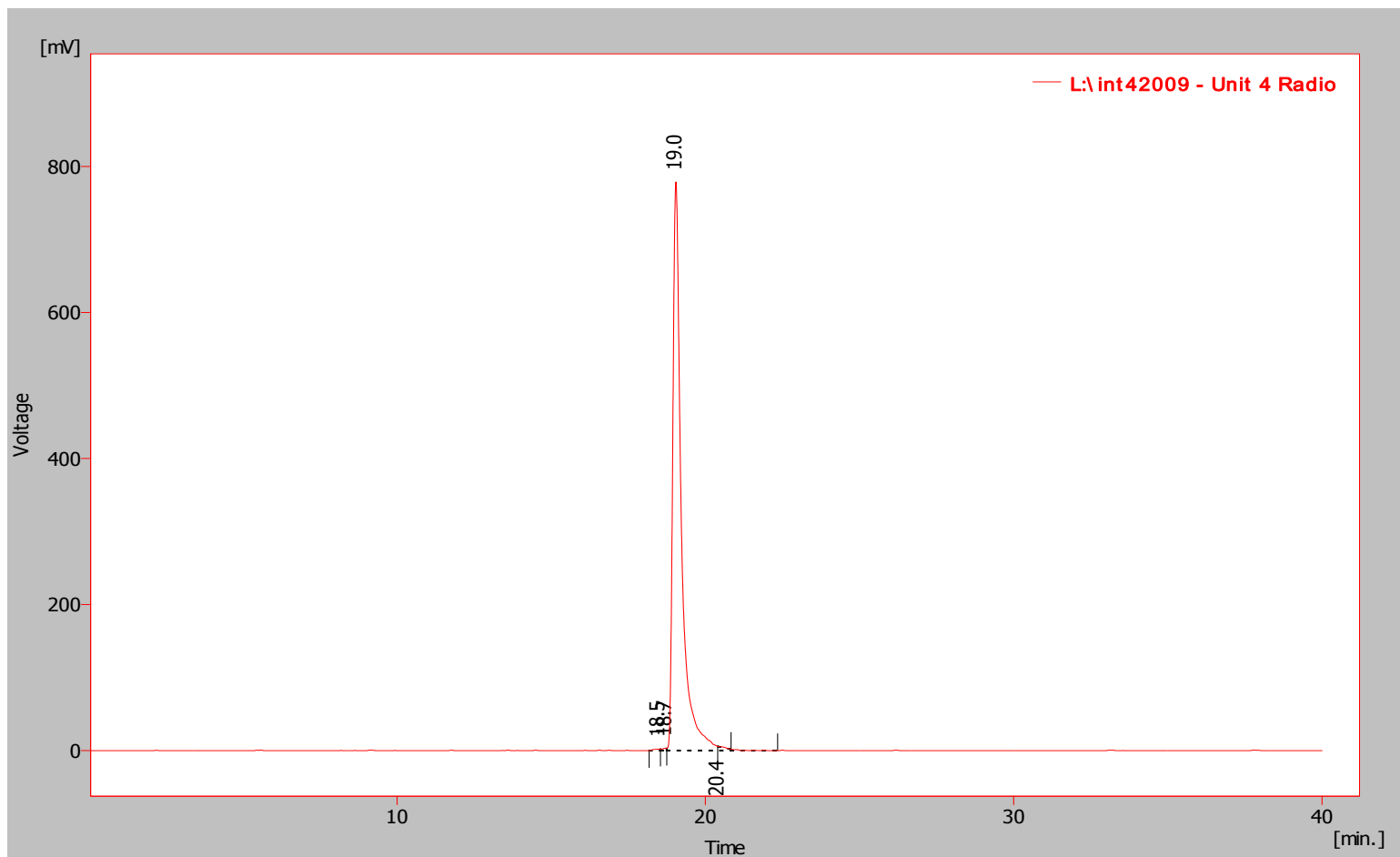
B) Mass spectrometry – Positive mode

C) NMR

MC-1418
2-Chloro-2'-deoxyadenosine, [8-14C]-
Lot 167-129-059-A-20090702-JK

Chromatogram Info:

File Name	: L:\int42009	File Created	: 11/22/2013 12:43:04 PM
Origin	: Acquired, Acquisition started 7/10/2009 8:45:10 AM	Acquired Date	: 7/10/2009 9:25:08 AM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 11/22/2013 4:06 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



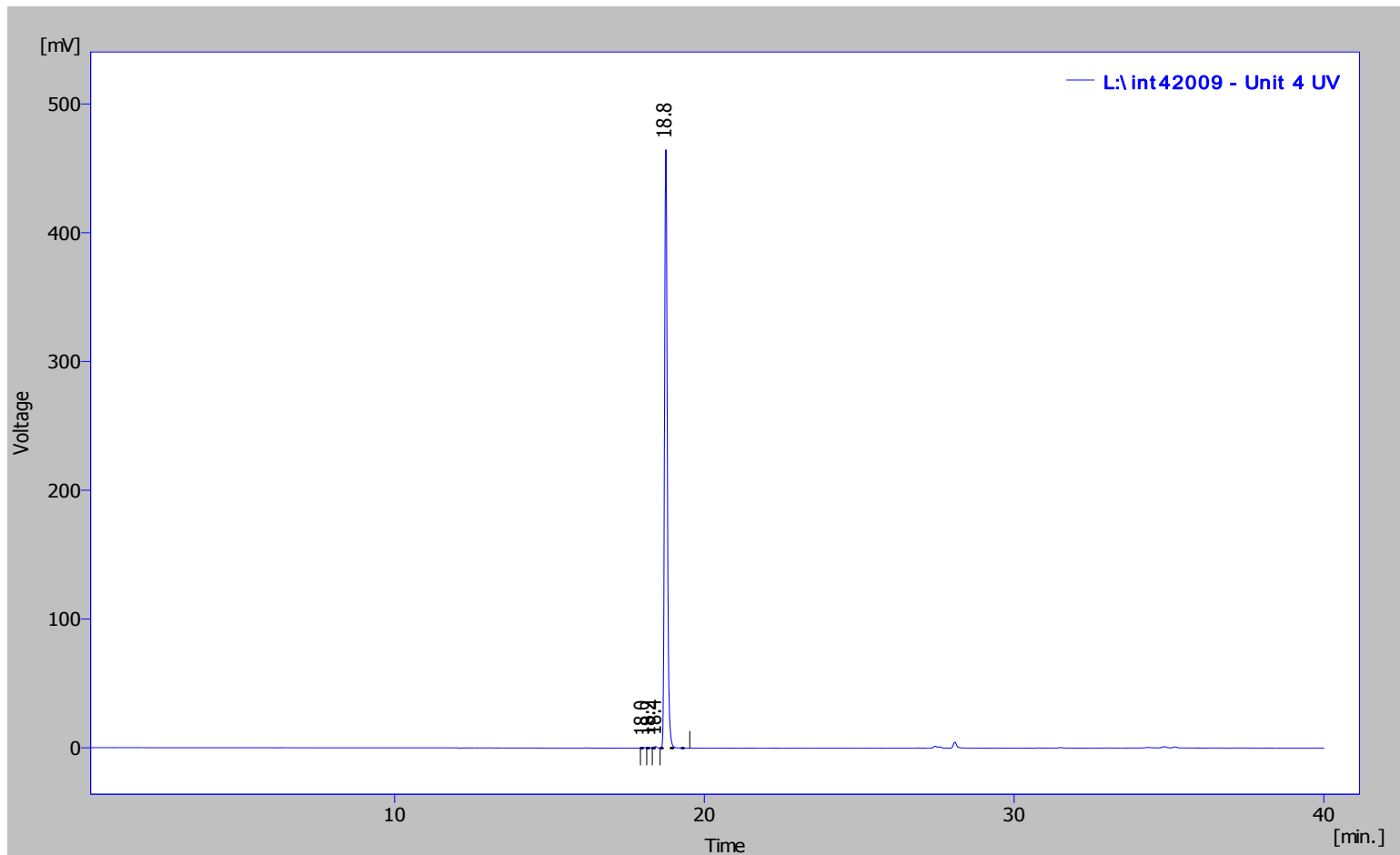
Result Table (Uncal - L:\int42009 - Unit 4 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		18.497	0.22	33.385	2.199	0.280	24761.847
2		18.713	0.22	33.728	3.339	0.426	46923.988
3		19.043	99.48	15203.946	778.947	99.288	30496.975
4		20.407	0.08	11.627	0.049	0.006	8305320.694
		Total	100.00	15282.687	784.534	100.000	

MC-1418
2-Chloro-2'-deoxyadenosine, [8-14C]-
Lot 167-129-059-A-20090702-JK

Chromatogram Info:

File Name	: L:\int42009	File Created	: 11/22/2013 12:43:04 PM
Origin	: Acquired, Acquisition started 7/10/2009 8:45:10 AM	Acquired Date	: 7/10/2009 9:25:08 AM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of 14C material alone	Modified	: 11/22/2013 4:08 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 262nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



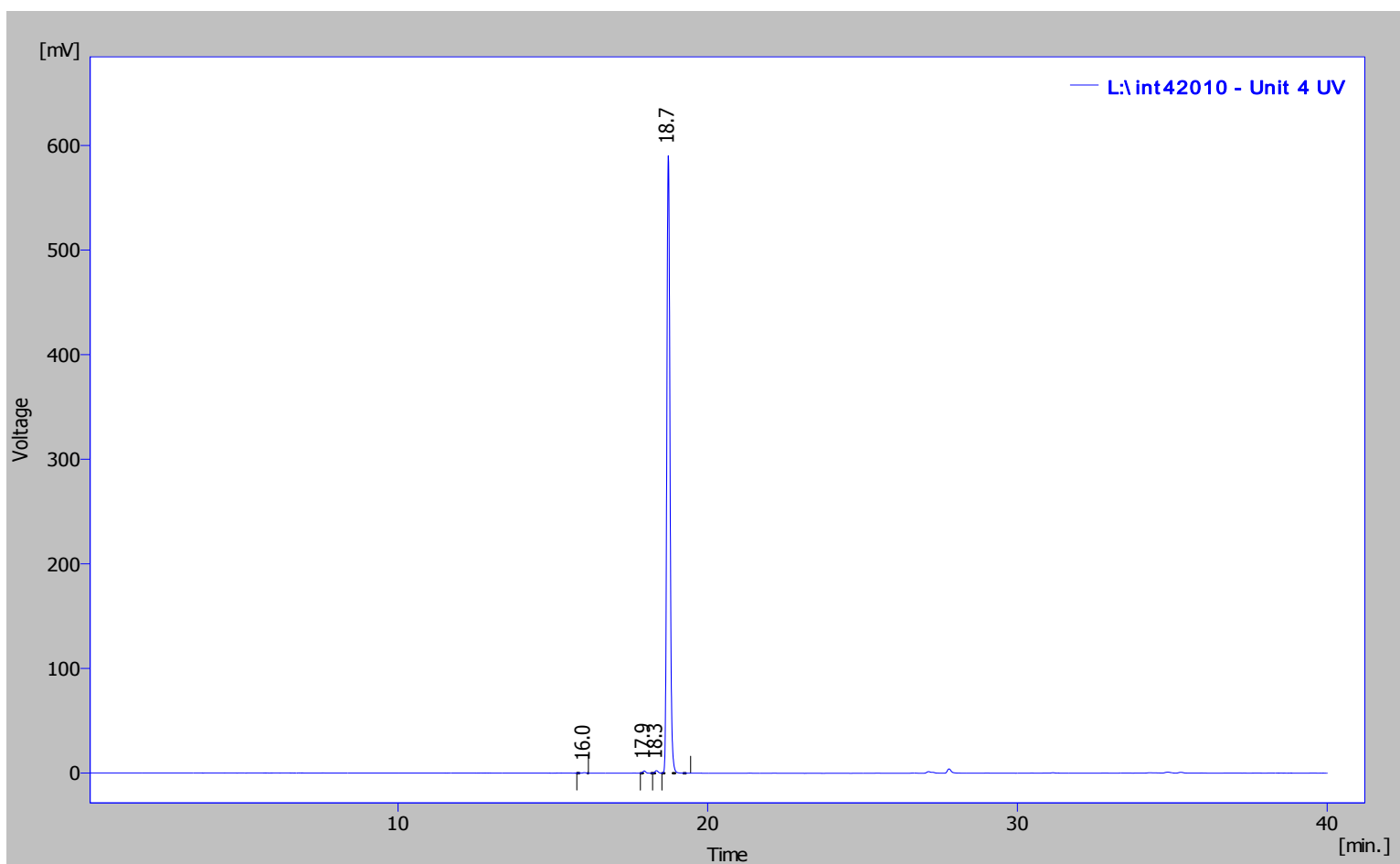
Result Table (Uncal - L:\int42009 - Unit 4 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		18.037	0.10	3.004	0.534	0.114	206894.416
2		18.240	0.06	1.746	0.291	0.062	184314.470
3		18.423	0.27	7.791	1.274	0.273	188038.243
4		18.757	99.57	2925.951	464.703	99.550	194904.150
		Total	100.00	2938.491	466.802	100.000	

MC-1418
2-Chloro-2'-deoxyadenosine, [8-14C]-
Lot 167-129-059-A-20090702-JK

Chromatogram Info:

File Name	: L:\int42010	File Created	: 11/22/2013 12:44:48 PM
Origin	: Acquired, Acquisition started 7/10/2009 9:34:22 AM	Acquired Date	: 7/10/2009 10:14:20 AM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of standard alone	Modified	: 11/22/2013 4:09 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 262nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



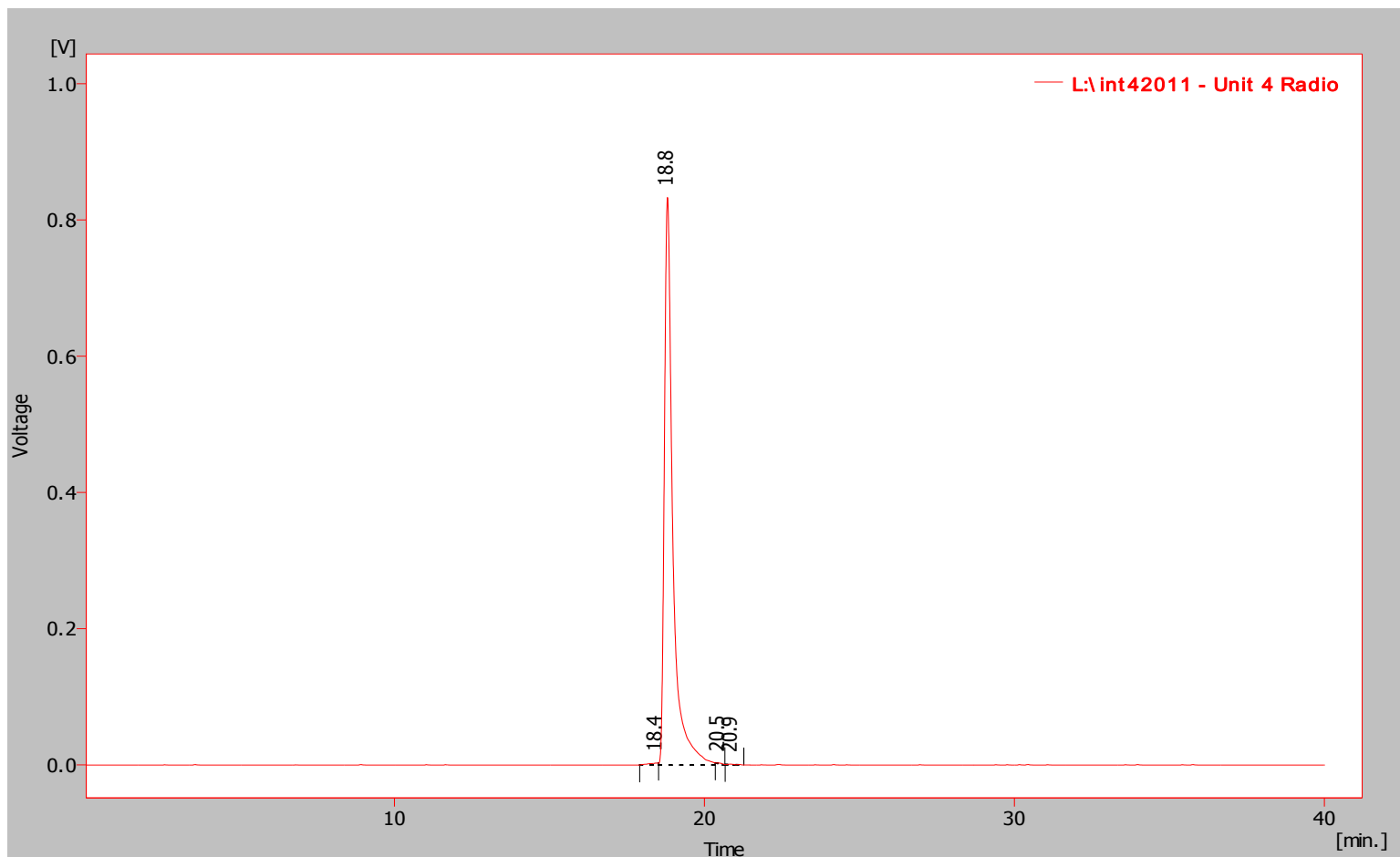
Result Table (Uncal - L:\int42010 - Unit 4 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		16.013	0.10	4.120	0.469	0.079	124857.837
2		17.950	0.33	14.063	2.183	0.367	167169.788
3		18.347	0.41	17.280	2.456	0.412	145180.665
4		18.730	99.17	4228.968	590.445	99.142	151310.823
		Total	100.00	4264.432	595.554	100.000	

MC-1418
2-Chloro-2'-deoxyadenosine, [8-14C]-
Lot 167-129-059-A-20090702-JK

Chromatogram Info:

File Name	: L:\int42011	File Created	: 11/22/2013 12:43:04 PM
Origin	: Acquired, Acquisition started 7/10/2009 10:21:34 AM	Acquired Date	: 7/10/2009 11:01:33 AM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard	Modified	: 11/22/2013 4:11 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



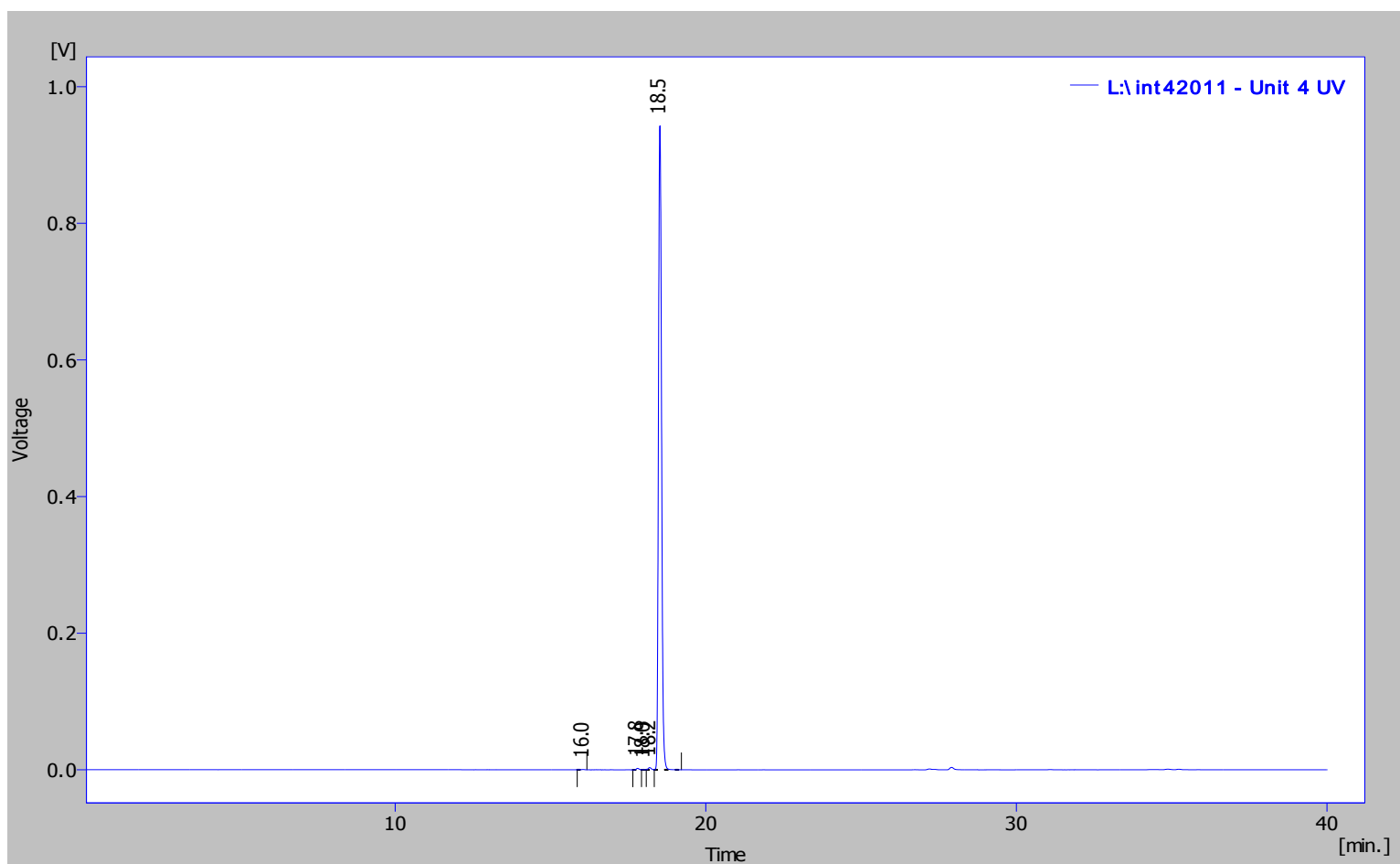
Result Table (Uncal - L:\int42011 - Unit 4 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		18.440	0.40	64.135	3.010	0.359	14011.632
2		18.810	99.43	15927.557	833.181	99.413	30542.366
3		20.467	0.07	11.098	0.987	0.118	74352.362
4		20.867	0.10	15.806	0.921	0.110	45599.518
		Total	100.00	16018.596	838.100	100.000	

MC-1418
2-Chloro-2'-deoxyadenosine, [8-14C]-
Lot 167-129-059-A-20090702-JK

Chromatogram Info:

File Name	: L:\int42011	File Created	: 11/22/2013 12:43:04 PM
Origin	: Acquired, Acquisition started 7/10/2009 10:21:34 AM	Acquired Date	: 7/10/2009 11:01:33 AM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of 14C material co-injected with standard		
Created	: 6/12/2008 10:30 AM	Modified	: 11/22/2013 4:12 PM
Column	:	Detection	: UV 262nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



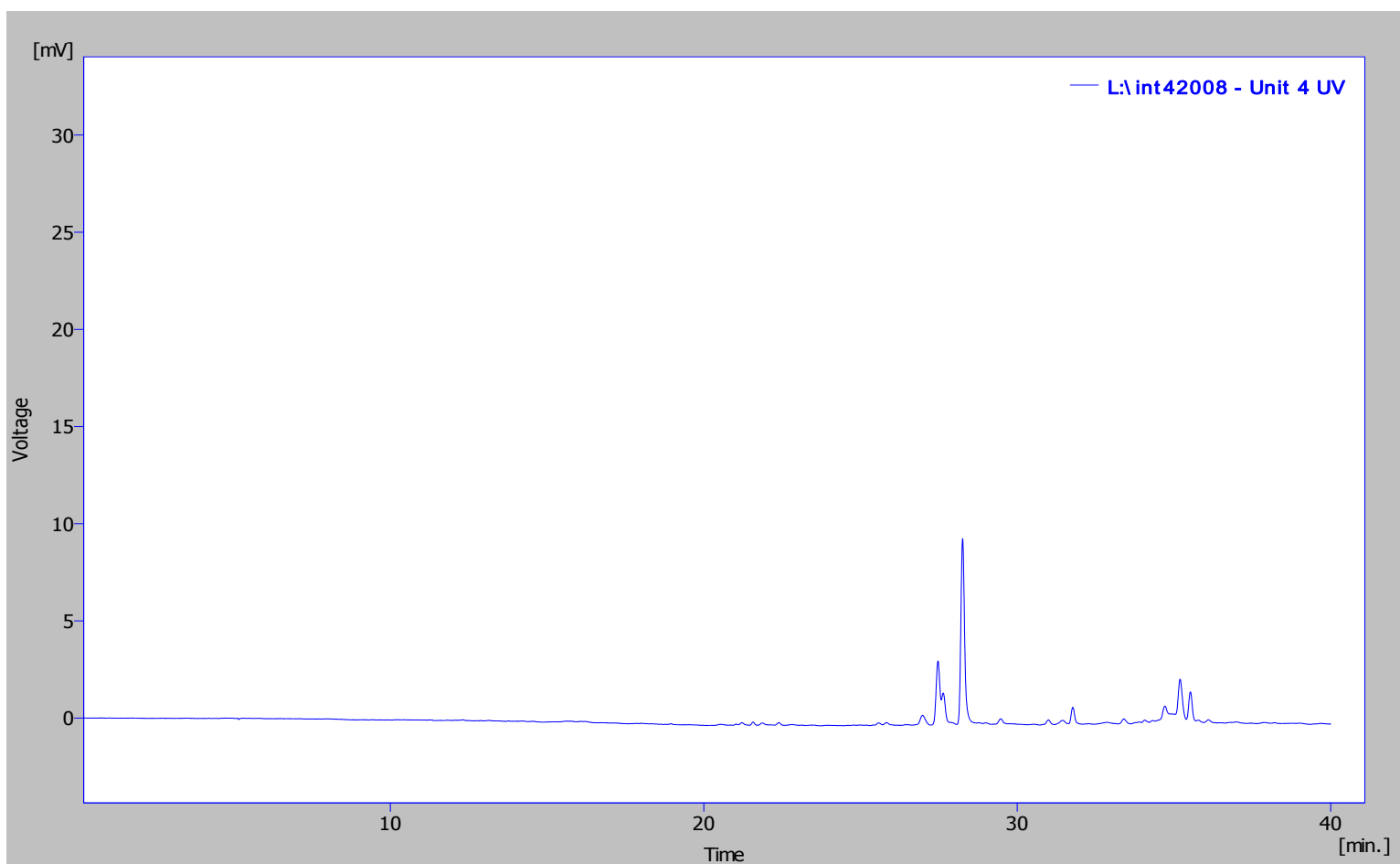
Result Table (Uncal - L:\int42011 - Unit 4 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		16.047	0.06	3.909	0.417	0.044	125378.185
2		17.803	0.20	12.925	2.132	0.225	175595.107
3		18.013	0.03	2.008	0.325	0.034	168351.526
4		18.193	0.33	21.743	3.220	0.339	151547.560
5		18.523	99.38	6521.307	942.725	99.358	157095.114
		Total	100.00	6561.890	948.820	100.000	

MC-1418
2-Chloro-2'-deoxyadenosine, [8-14C]-
Lot 167-129-059-A-20090702-JK

Chromatogram Info:

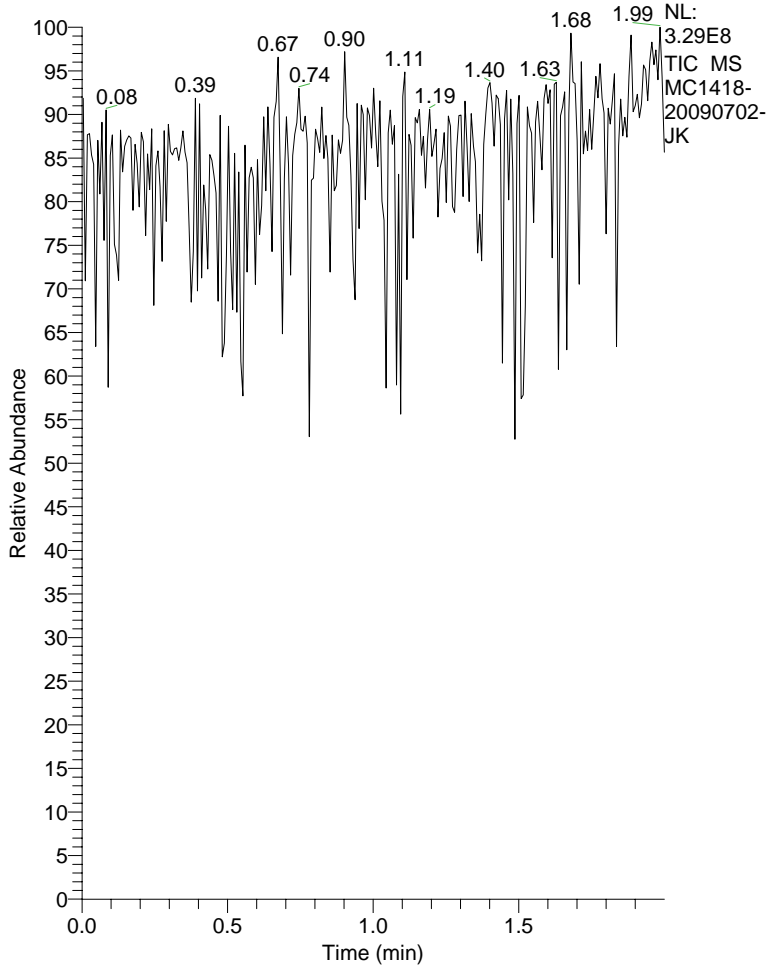
File Name	: L:\int42008	File Created	: 11/22/2013 12:43:04 PM
Origin	: Acquired, Acquisition started 7/10/2009 7:56:02 AM	Acquired Date	: 7/10/2009 8:36:00 AM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 11/22/2013 12:48 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 262nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int42008 - Unit 4 UV)

Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
No peak to report						

RT: 0.00 - 2.00



MC1418-20090702-JK#1-281 RT: 0.00-2.00

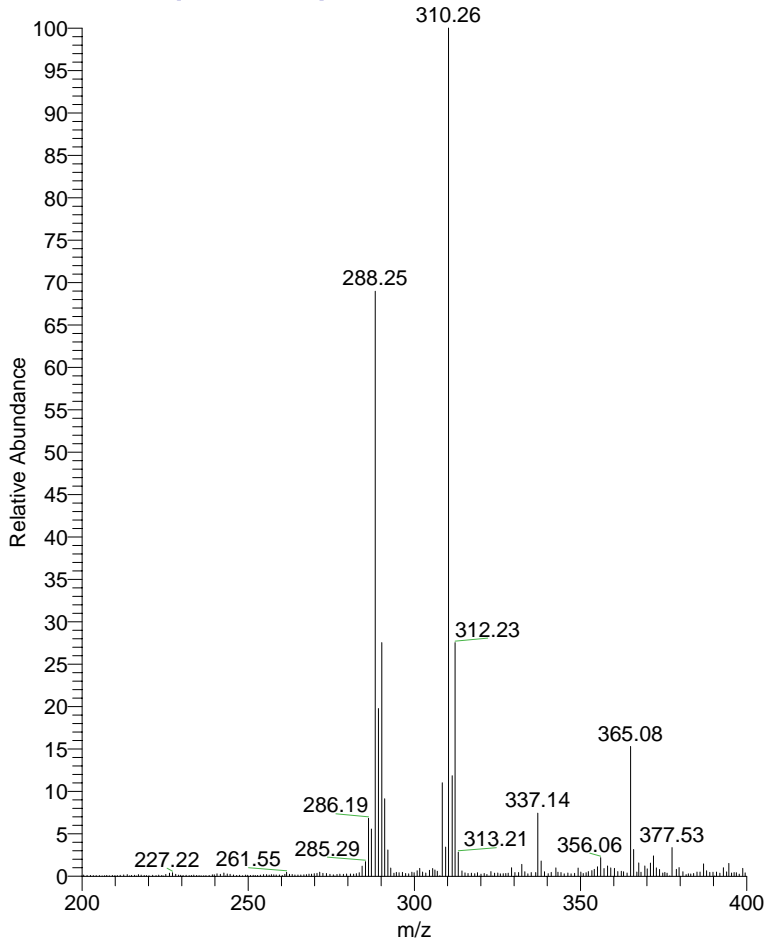
T: + c NSI Full ms [200.00-400.00]

m/z = 306.78-319.82

m/z	Intensity	Relative
306.90	393920.9	0.58
307.70	34155.0	0.05
308.42	7445489.8	11.01
309.40	2319725.5	3.43
310.26	67649914.7	100.00
311.37	8009013.9	11.84
312.23	18635099.2	27.55
313.21	1905614.0	2.82
314.33	415575.0	0.61
315.26	258352.9	0.38
316.15	209713.1	0.31
317.16	232374.7	0.34
318.19	192730.2	0.28
319.02	275276.5	0.41
319.54	1081.0	0.00

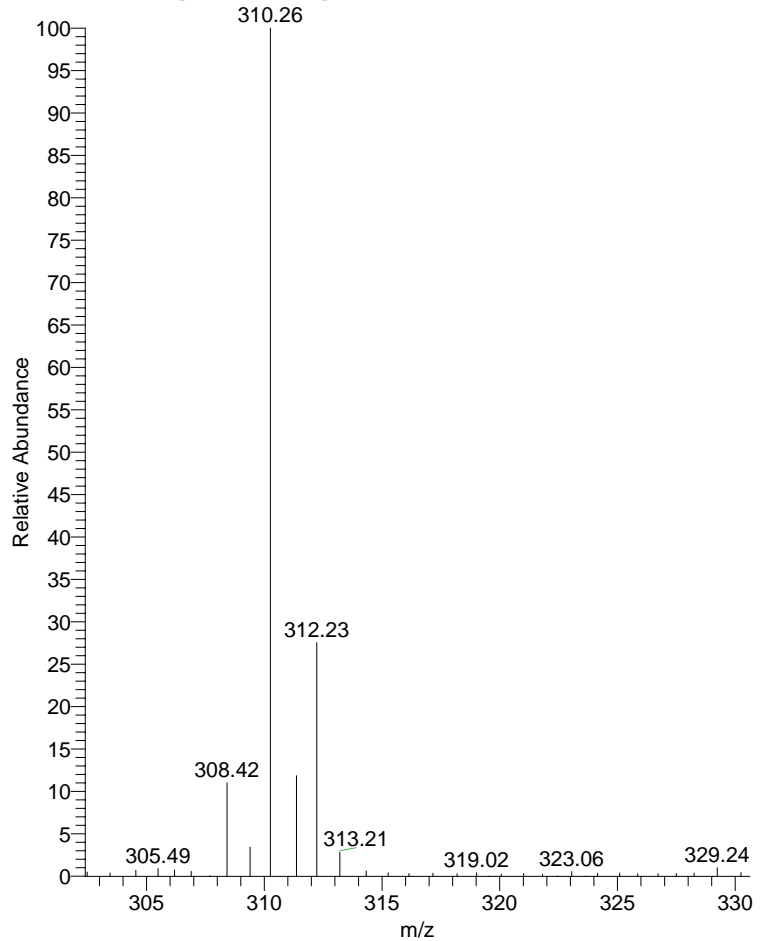
MC1418-20090702-JK #1-281 RT: 0.00-2.00 AV: 281 NL: 6.76E7

T: + c NSI Full ms [200.00-400.00]



MC1418-20090702-JK #1-281 RT: 0.00-2.00 AV: 281 NL: 6.76E7

T: + c NSI Full ms [200.00-400.00]



MC1418 1H NMR in D2O
Batch 20090702-JK



8.062
6.187
6.170
6.155
4.496
4.042
3.744
3.713
3.667
3.635
2.647
2.629
2.612
2.594
2.579
2.436
2.403

NAME MC1418
EXPNO 1
PROCNO 1
Date_ 20090709
Time 17.24
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT D2O
NS 470
DS 0
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 362
DW 60.400 usec
DE 6.50 usec
TE 294.9 K
D1 2.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 14.50 usec
PL1 -0.70 dB
PL1W 10.03411102 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300000 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

