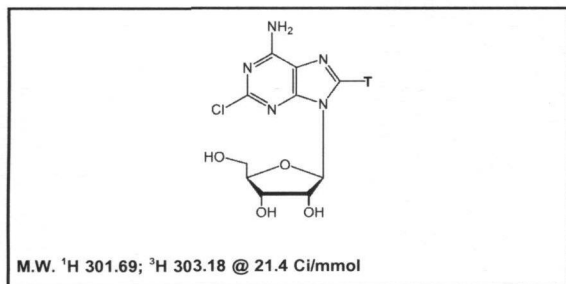




Product Data Sheet

MT-697

2-Chloroadenosine, [8-³H]-



Lot #: 190-010-0214-A-20090721-TT

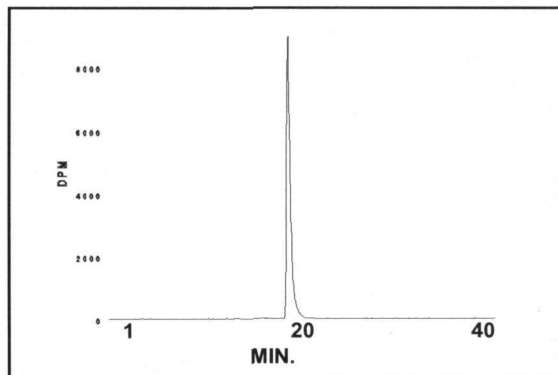
Specific Activity: 21.4 Ci/mmol

Concentration: 1.0 mCi/ml; 14.17 µg/ml

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

Date of Analysis: July 22, 2009

Radiochemical Purity: 99.7%



HPLC ANALYSIS LOT 190-010-0214-A-20090721-TT
File Name: int42028 Date and Time: 7/22/2009 4:45:36 PM
Unit 4 Radio

Peak #	Area %	Time	Area
1	0.14	13.27000	37.58885
2	0.11	15.99000	28.81303
3	99.74	18.59670	25969.42344
Totals	100.00		26035.82532

Stability and Storage Recommendation: The rate of decomposition is approximately 1% / 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-697

2-Chloroadenosine, [8-³H]-

Lot 190-010-0214-A-20090721-TT

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-Chloroadenosine, [8-³H]- concentration was 1.0 mCi/mL.

Volume of standard alone injection was 1.0 µL.

Volume of **2-Chloroadenosine, [8-³H]-** alone injection was 1.0 µL.

Co-injection solution consisted of 1.0 µL **2-Chloroadenosine, [8-³H]-** + 1.0 µL standard.

Volume of co-injection was 2.0 µL.

Volume of blank injection was 1.0 µL.

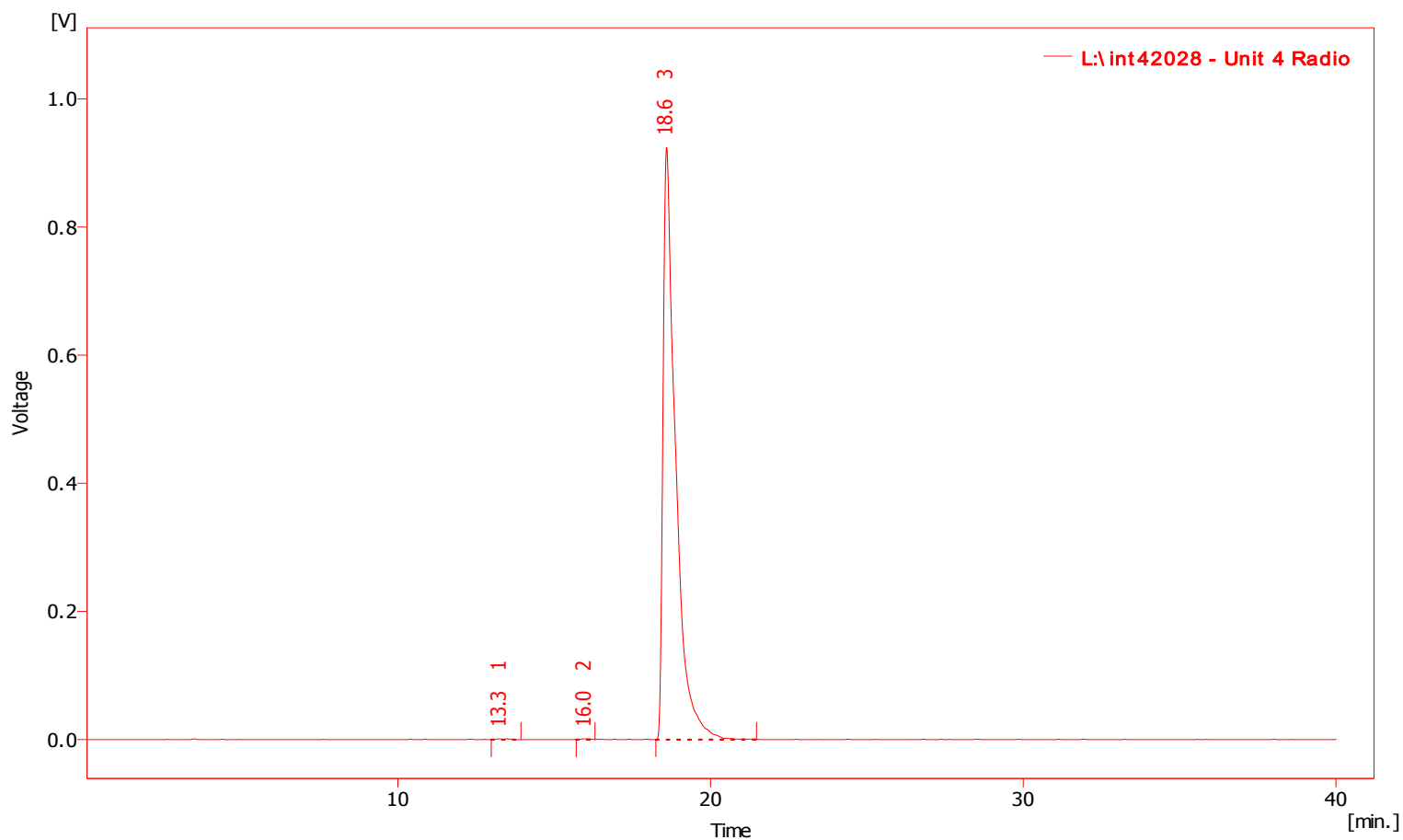
B) Mass spectrometry – Positive mode

C) NMR

MT-697
2-Chloroadenosine, [8-3H]-
Lot 190-010-0214-A-20090721-TT

Chromatogram Info:

File Name	: L:\int42028	File Created	: 3/5/2014 3:23:02 PM
Origin	: Acquired, Acquisition started 7/22/2009 4:05:37 PM	Acquired Date	: 7/22/2009 4:45:36 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 3/5/2014 3:34 PM
Created	: 6/12/2008 10:30 AM	Detection	: Radiochemical
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



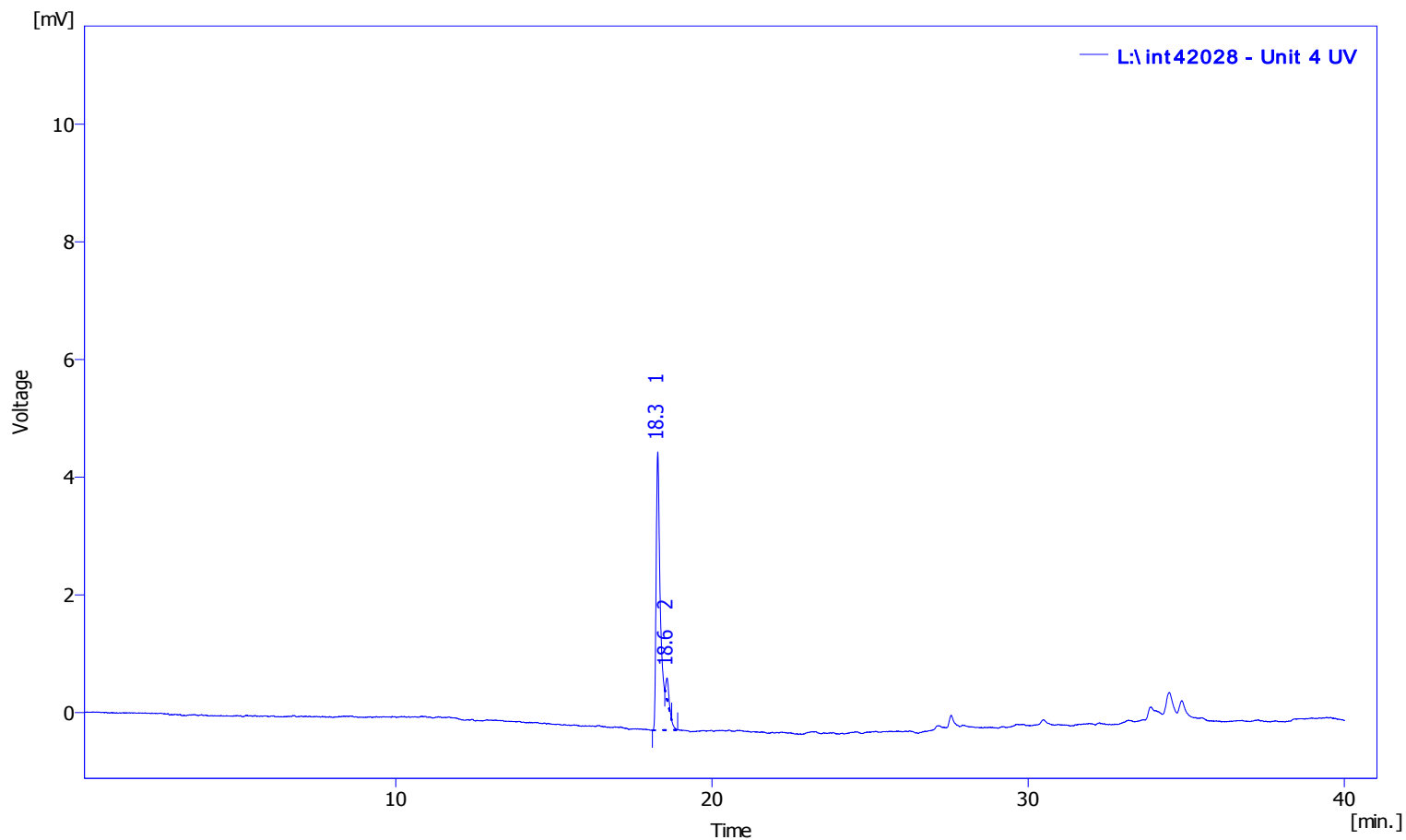
Result Table (Uncal - L:\int42028 - Unit 4 Radio)

	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		13.27	37.589	1.26	0.14	0.14	14068.25	281364.91	1.42		
2		15.99	28.813	1.25	0.11	0.14	8158.85	163177.09	1.02		4.7
3		18.60	25969.423	924.42	99.74	99.73	11397.57	227951.40	2.42		3.7
		Total	26035.825	926.93	100.00	100.00					

MT-697
2-Chloroadenosine, [8-3H]-
Lot 190-010-0214-A-20090721-TT

Chromatogram Info:

File Name	: L:\int42028	File Created	: 3/5/2014 3:23:02 PM
Origin	: Acquired, Acquisition started 7/22/2009 4:05:37 PM	Acquired Date	: 7/22/2009 4:45:36 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 3/5/2014 3:27 PM
Created	: 6/12/2008 10:30 AM	Detection	: UV 259nm
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



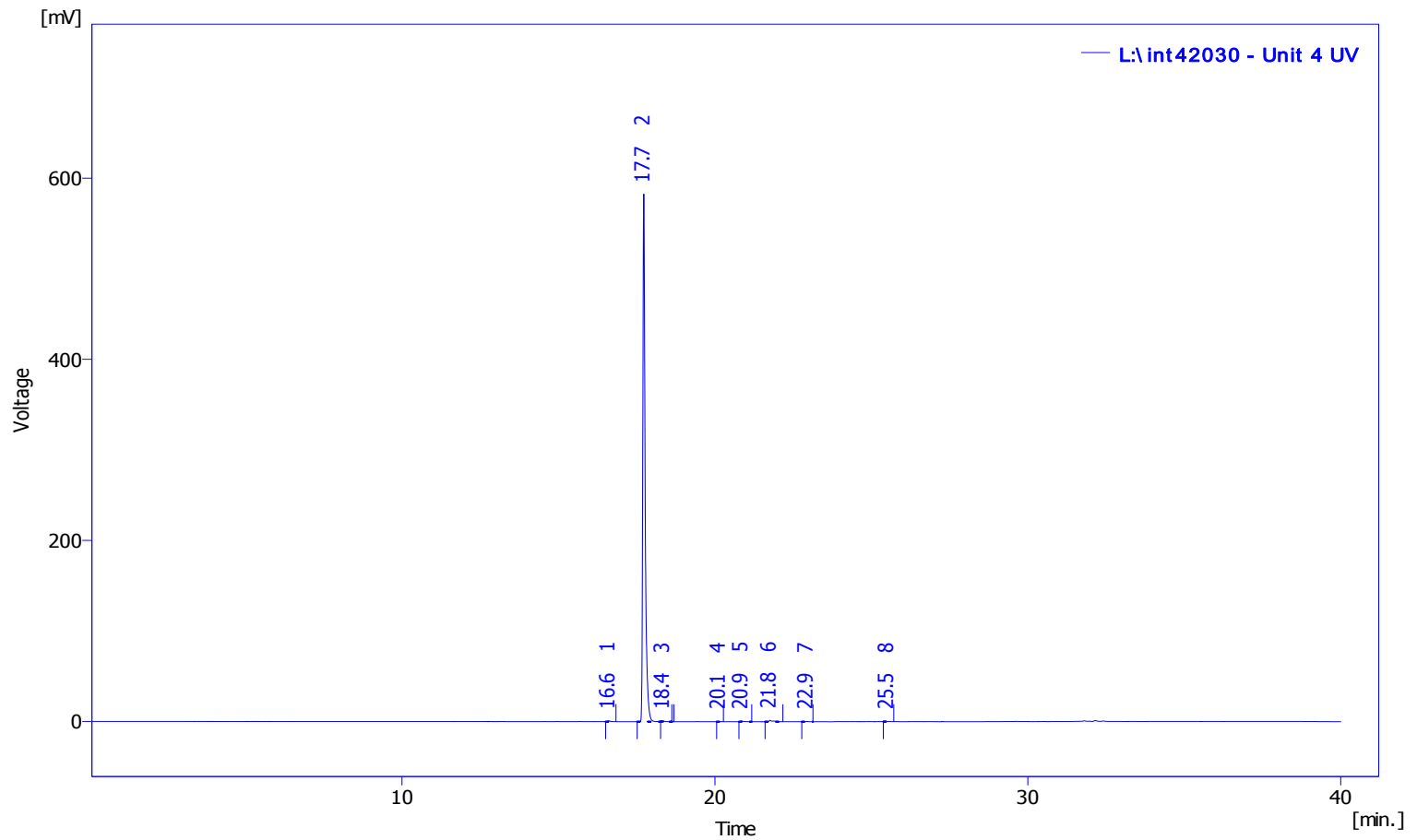
Result Table (Uncal - L:\int42028 - Unit 4 UV)

	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		18.28	49.486	4.73	95.67	92.90	109580.64	2191612.71	2.35		
2		18.58	2.238	0.36	4.33	7.10	191181.27	3823625.39	1.50		1.5
		Total	51.723	5.09	100.00	100.00					

MT-697
2-Chloroadenosine, [8-3H]-
Lot 190-010-0214-A-20090721-TT

Chromatogram Info:

File Name	: L:\int42030	File Created	: 3/5/2014 3:23:02 PM
Origin	: Acquired, Acquisition started 7/23/2009 11:08:18 AM	Acquired Date	: 7/23/2009 11:48:16 AM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 3/5/2014 3:35 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 259nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



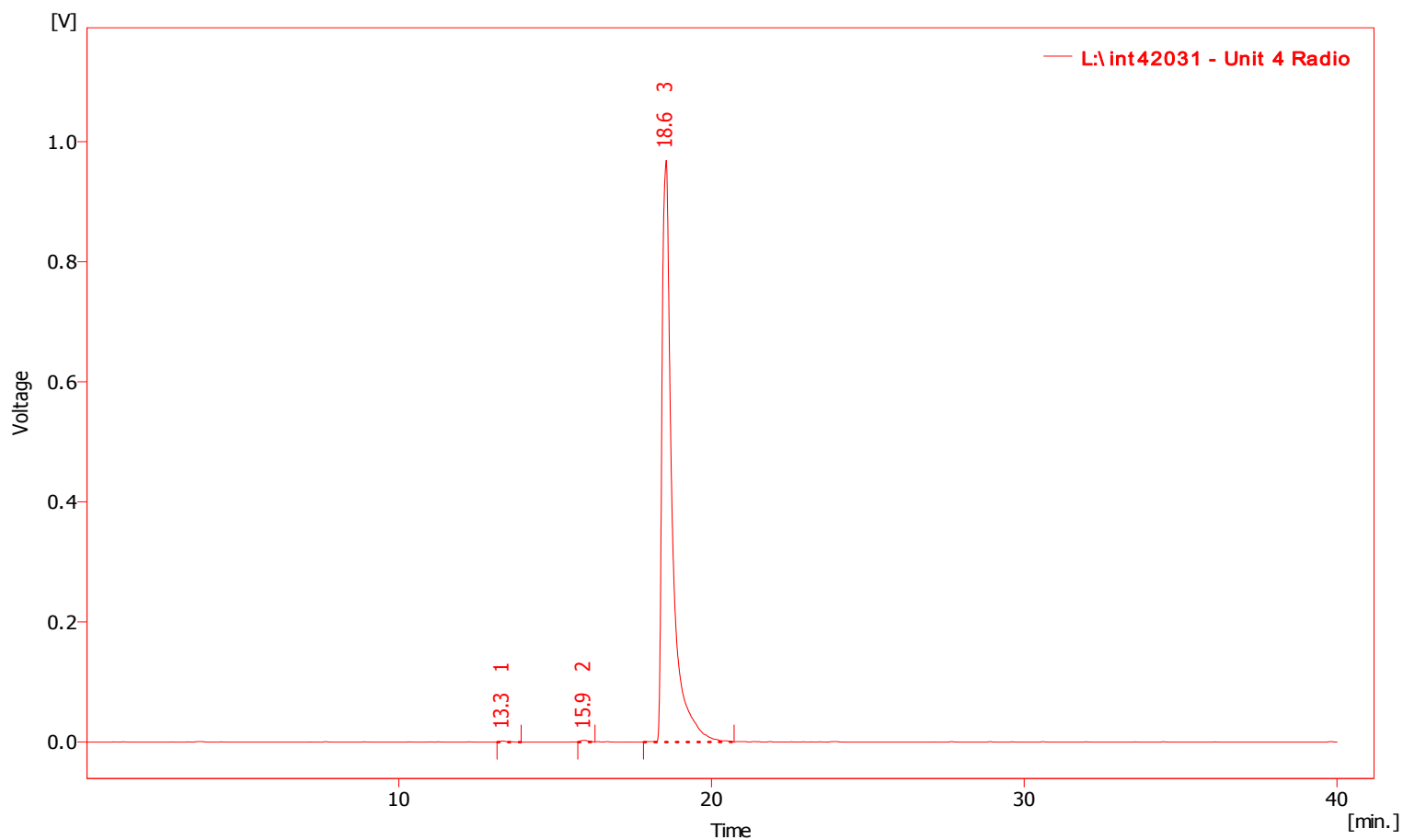
Result Table (Uncal - L:\int42030 - Unit 4 UV)

	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		16.61	4.980	0.96	0.16	0.16	260037.43	5200748.62	1.48		
2		17.73	3046.144	582.56	99.04	99.22	296176.61	5923532.21	2.82		8.6
3		18.35	3.173	0.57	0.10	0.10	248447.99	4968959.75	1.43		4.5
4		20.14	0.930	0.17	0.03	0.03	277515.62	5550312.30	1.16		12.0
5		20.86	4.384	0.91	0.14	0.16	750488.83	15009776.57	2.53		5.7
6		21.76	12.435	1.44	0.40	0.25	409871.36	8197427.20	2.48		7.8
7		22.94	1.815	0.29	0.06	0.05	311991.75	6239834.93	1.07		7.9
8		25.52	1.822	0.22	0.06	0.04	213437.61	4268752.12	1.28		13.4
		Total	3075.683	587.12	100.00	100.00					

MT-697
2-Chloroadenosine, [8-3H]-
Lot 190-010-0214-A-20090721-TT

Chromatogram Info:

File Name	: L:\int42031	File Created	: 3/5/2014 3:23:01 PM
Origin	: Acquired, Acquisition started 7/23/2009 12:22:31 PM	Acquired Date	: 7/23/2009 1:02:30 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 3/5/2014 3:36 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



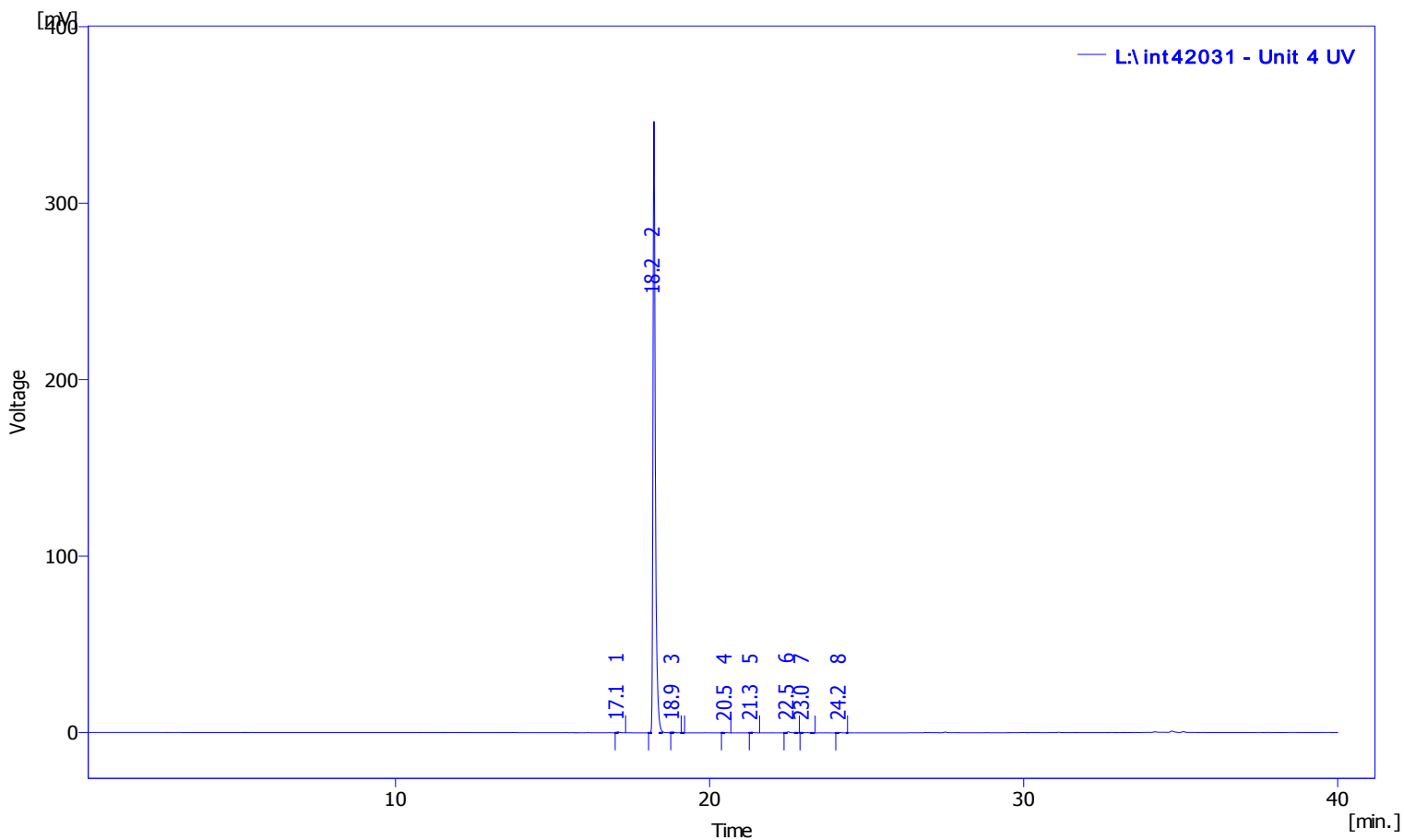
Result Table (Uncal - L:\int42031 - Unit 4 Radio)

	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		13.33	24.217	1.81	0.11	0.19	23797.74	475954.75	1.20		
2		15.94	51.995	2.90	0.24	0.30	15298.40	305968.08	1.22		6.1
3		18.55	21873.017	969.11	99.65	99.52	20725.90	414517.99	2.10		5.1
		Total	21949.229	973.83	100.00	100.00					

MT-697
2-Chloroadenosine, [8-3H]-
Lot 190-010-0214-A-20090721-TT

Chromatogram Info:

File Name	: L:\int42031	File Created	: 3/5/2014 3:23:01 PM
Origin	: Acquired, Acquisition started 7/23/2009 12:22:31 PM	Acquired Date	: 7/23/2009 1:02:30 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 3/5/2014 3:36 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 259nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



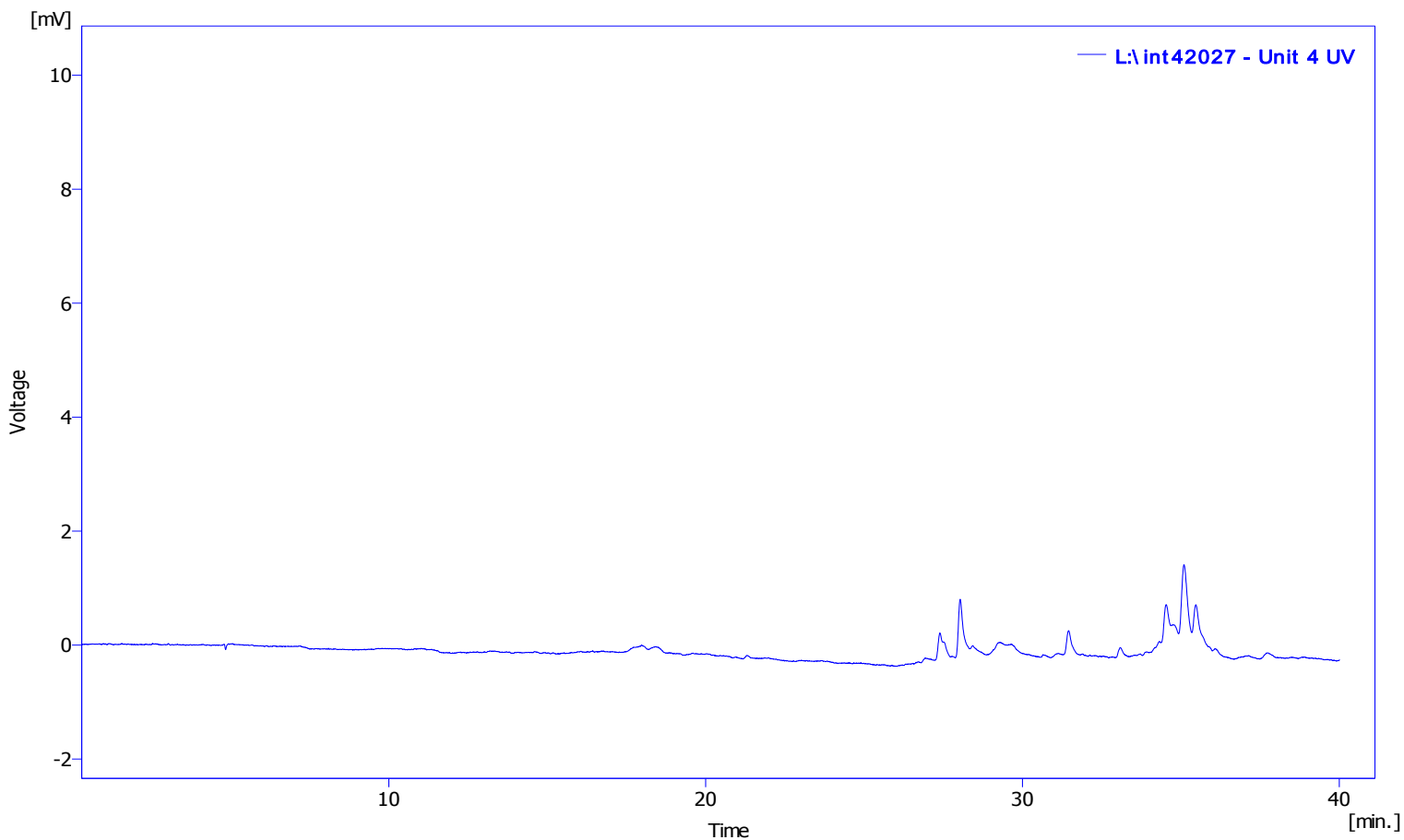
Result Table (Uncal - L:\int42031 - Unit 4 UV)

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	17.09	2.783	0.54	0.15	0.16	275176.47	5503529.42	1.52		
2	18.23	1807.814	346.49	99.12	99.31	313234.75	6264695.04	3.41		8.8
3	18.85	1.903	0.34	0.10	0.10	283462.08	5669241.55	1.52		4.6
4	20.53	0.525	0.09	0.03	0.03	336131.42	6722628.50	1.19		11.9
5	21.35	2.326	0.39	0.13	0.11	394448.15	7888963.08	2.02		5.9
6	22.50	4.307	0.62	0.24	0.18	300227.16	6004543.29	1.65		7.7
7	22.98	2.844	0.21	0.16	0.06	257055.18	5141103.66	2.48		2.7
8	24.15	1.356	0.22	0.07	0.06	465400.03	9308000.60	1.19		7.3
Total		1823.859	348.91	100.00	100.00					

MT-697
2-Chloroadenosine, [8-3H]-
Lot 190-010-0214-A-20090721-TT

Chromatogram Info:

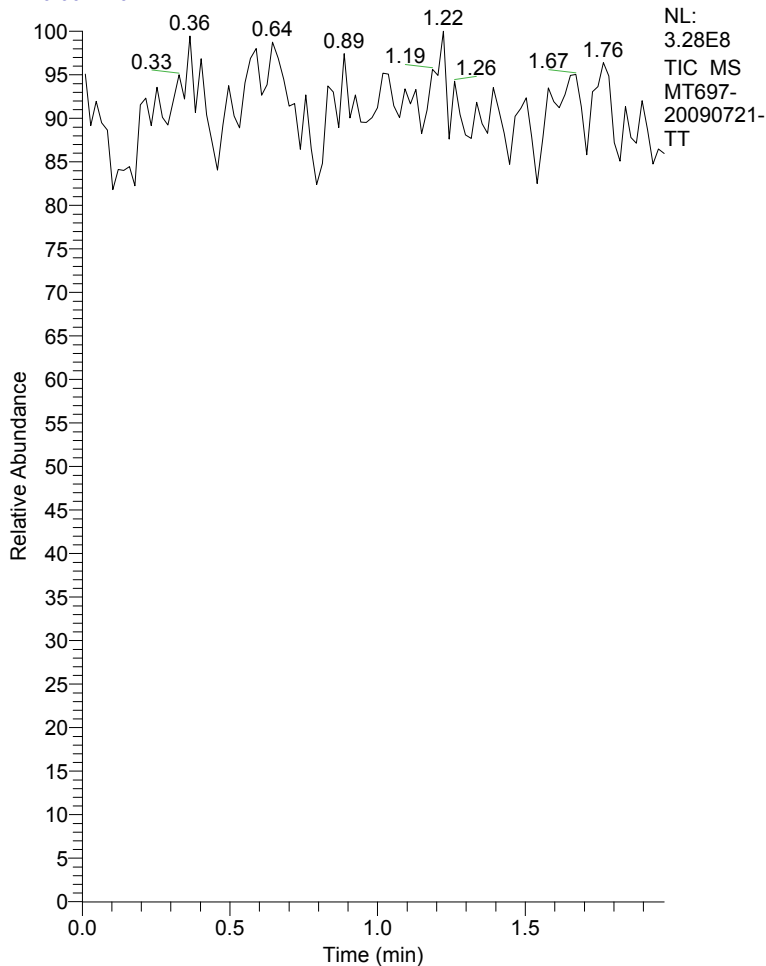
File Name	: L:\int42027	File Created	: 3/5/2014 3:23:01 PM
Origin	: Acquired, Acquisition started 7/22/2009 3:05:35 PM	Acquired Date	: 7/22/2009 3:45:33 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 3/5/2014 3:37 PM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 259nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int42027 - Unit 4 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 - 1.97



MT697-20090721-TT#1-106 RT: 0.01-1.97 AV:

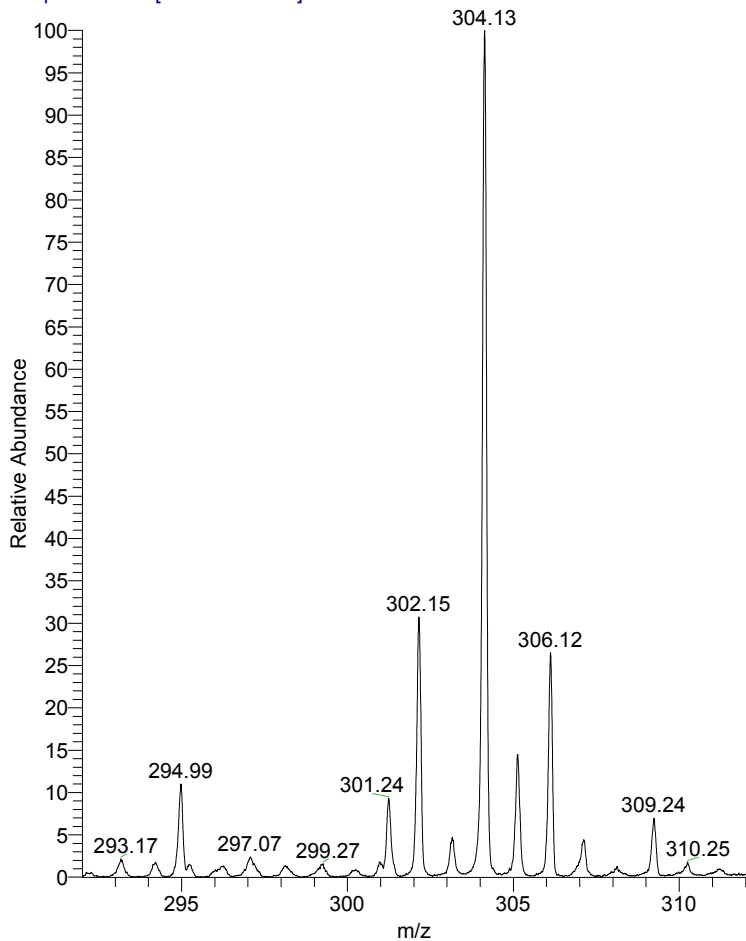
T: + p NSI Z ms [292.00-312.00]

m/z = 301.68-307.77

m/z	Intensity	Relative
302.14	36225096.0	30.85
303.13	8074761.5	6.88
304.12	117408952.0	100.00
305.10	19443866.0	16.56
306.10	29659718.0	25.26
307.06	8105173.0	6.90

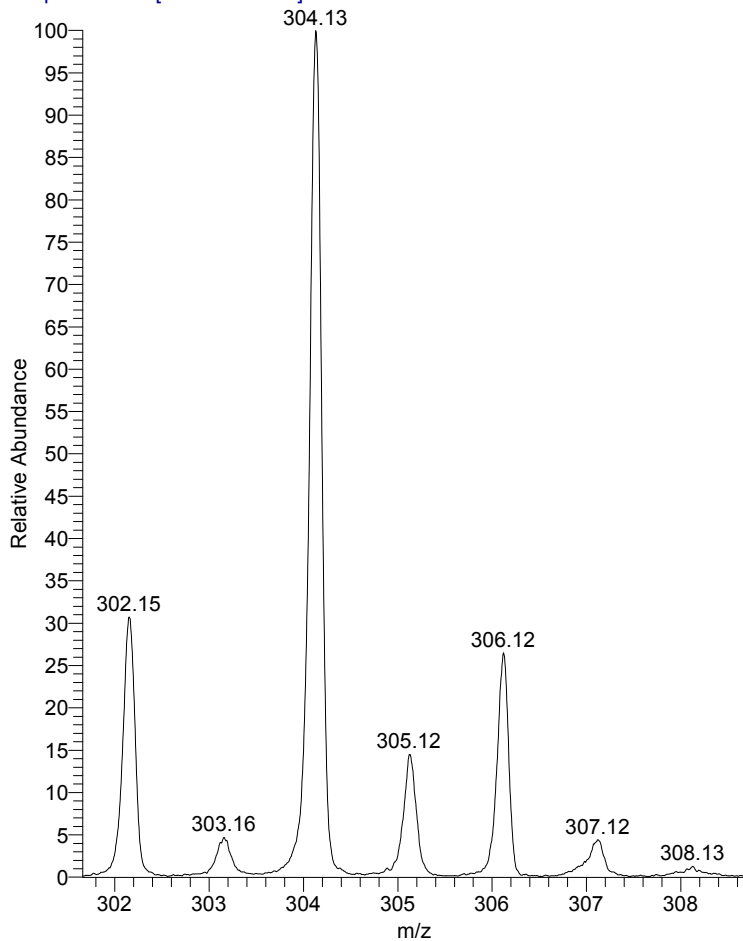
MT697-20090721-TT #1-106 RT: 0.01-1.97 AV: 106 NL: 3.69E6

T: + p NSI Z ms [292.00-312.00]



MT697-20090721-TT #1-106 RT: 0.01-1.97 AV: 106 NL: 3.69E6

T: + p NSI Z ms [292.00-312.00]



MT697 3H NMR in D2O
Batch 20090721-TT

1.88
1.54
0.88



BRUKER

NAME MT697
EXPNO 1
PROCNO 1
Date_ 20090723
Time_ 13.29
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT D2O
NS 4376
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

1.88
1.54

