

Name:	24-Nor Tauroursodeoxycholic Acid-D4 (major) Sodium
Lot#:	GR-16-277
Test Date:	02/09/2022 (re-test date: 02/09/2027)
CAS No.:	NA
MF:	C ₂₅ H ₃₈ D ₄ NNaO ₆ S
MW:	511.68
Appearance:	Off-white solid
Purity:	96.8% by HPLC (average of two sample preparations); >98% atom D
¹H-NMR:	Conforms (contains a trace of ACN and MeOH)
MS-ESI (-)	Conforms (shows peak at m/z = 488.28 [M-Na] ⁻)
Storage	Store at 0-5°C in a dry place away from direct sunlight

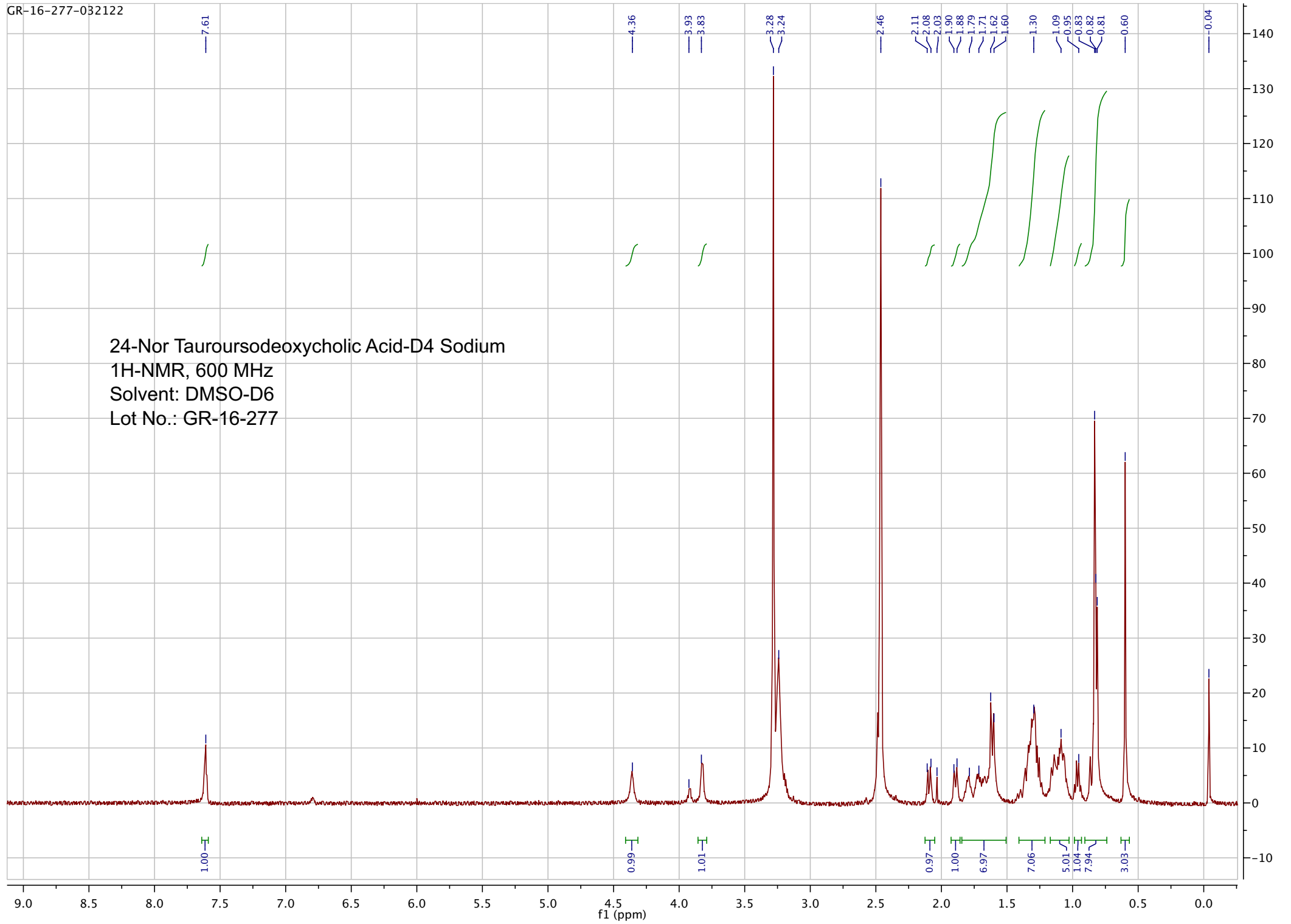
Approved by:

Date: 03/21/2022



Viorica Rusu, QC/QA Manager

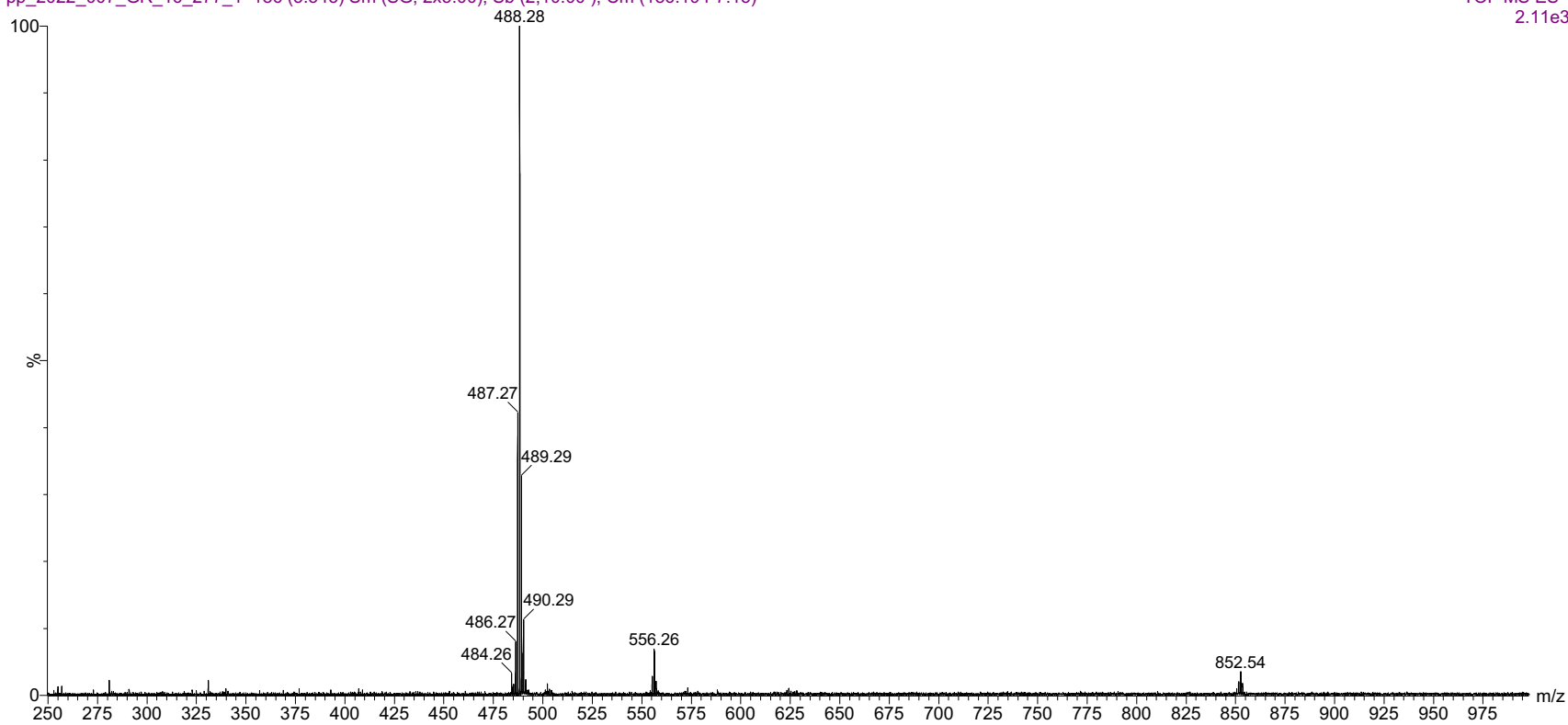
24-Nor Tauroursodeoxycholic Acid-D4 Sodium
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-16-277



25-Jan-2022, 14:31:36

TOF MS ES-
2.11e3

pp_2022_007_GR_16_277_1 186 (3.543) Sm (SG, 2x5.00); Sb (2,10.00); Cm (186:194-7:15)

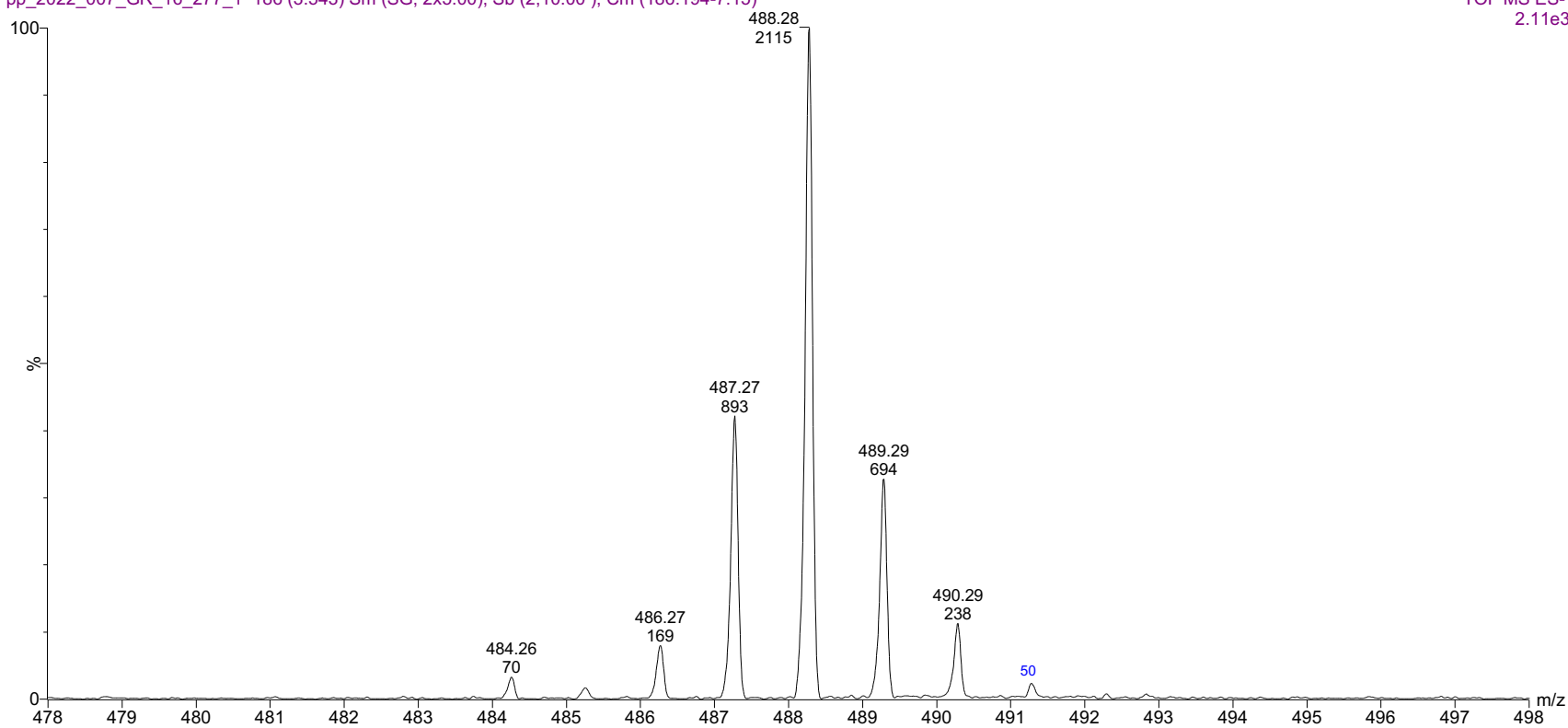


ESI-MS data for sample GR-16-277. Shows monoisotopic [M-H]- mass.

25-Jan-2022, 14:31:36

TOF MS ES-
2.11e3

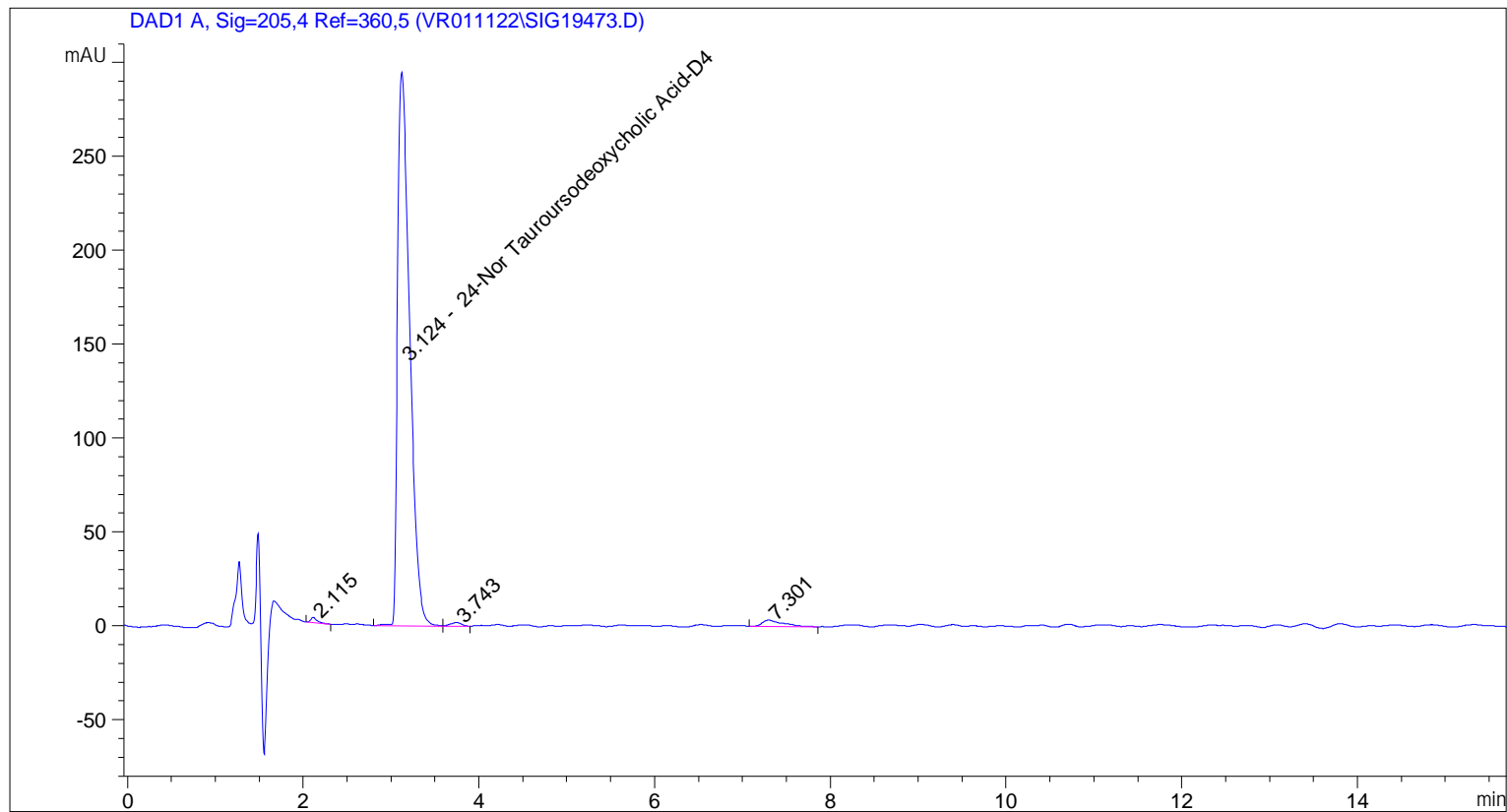
pp_2022_007_GR_16_277_1 186 (3.543) Sm (SG, 2x5.00); Sb (2,10.00); Cm (186:194-7:15)



Expansion of above showing intensity labels.

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 88
Injection Date  : 2/9/2022 8:23:17 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR020922_277.M
Last changed    : 2/9/2022 8:22:25 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR020922_277PM.M
Last changed    : 2/9/2022 9:31:01 AM by vrusu
  
```



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 Area Percent Report
 =====

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Sorted By           :      Signal
Calib. Data Modified :      2/9/2022 9:26:10 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=205,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.115	BB	0.0736	14.01949	0.4818	?
2	3.124	BV	0.1498	2823.59570	97.0299	24-Nor Tauroursodeoxycholic Acid-D4
3	3.743	VB	0.1223	15.94079	0.5478	?
4	7.301	BB	0.2322	56.46915	1.9405	?

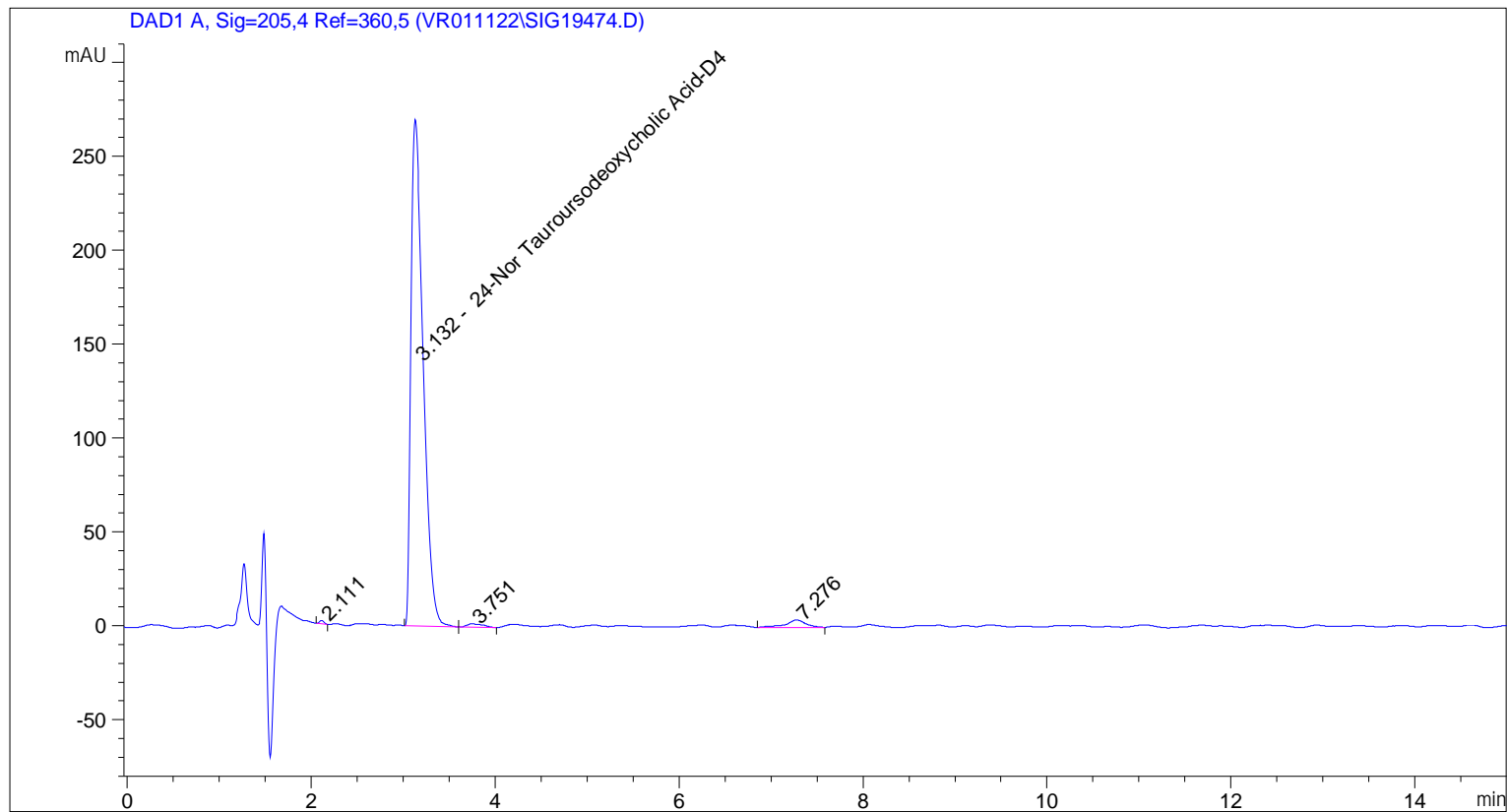
Totals : 2910.02514

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*** End of Report ***

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 89
Injection Date  : 2/9/2022 8:41:11 AM
                                           Inj Volume : 5.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR020922_277.M
Last changed   : 2/9/2022 8:40:14 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR020922_277PM.M
Last changed   : 2/9/2022 9:31:01 AM by vrusu
  
```



=====
 Area Percent Report
 =====

```

Sorted By           :      Signal
Calib. Data Modified :      2/9/2022 9:26:10 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=205,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.111	BB	0.0530	5.87139	0.2268	?
2	3.132	BB	0.1441	2501.11841	96.5927	24-Nor Tauroursodeoxycholic Acid-D4
3	3.751	BB	0.1663	23.17096	0.8949	?
4	7.276	BB	0.2149	59.18360	2.2857	?

Totals : 2589.34436

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*** End of Report ***