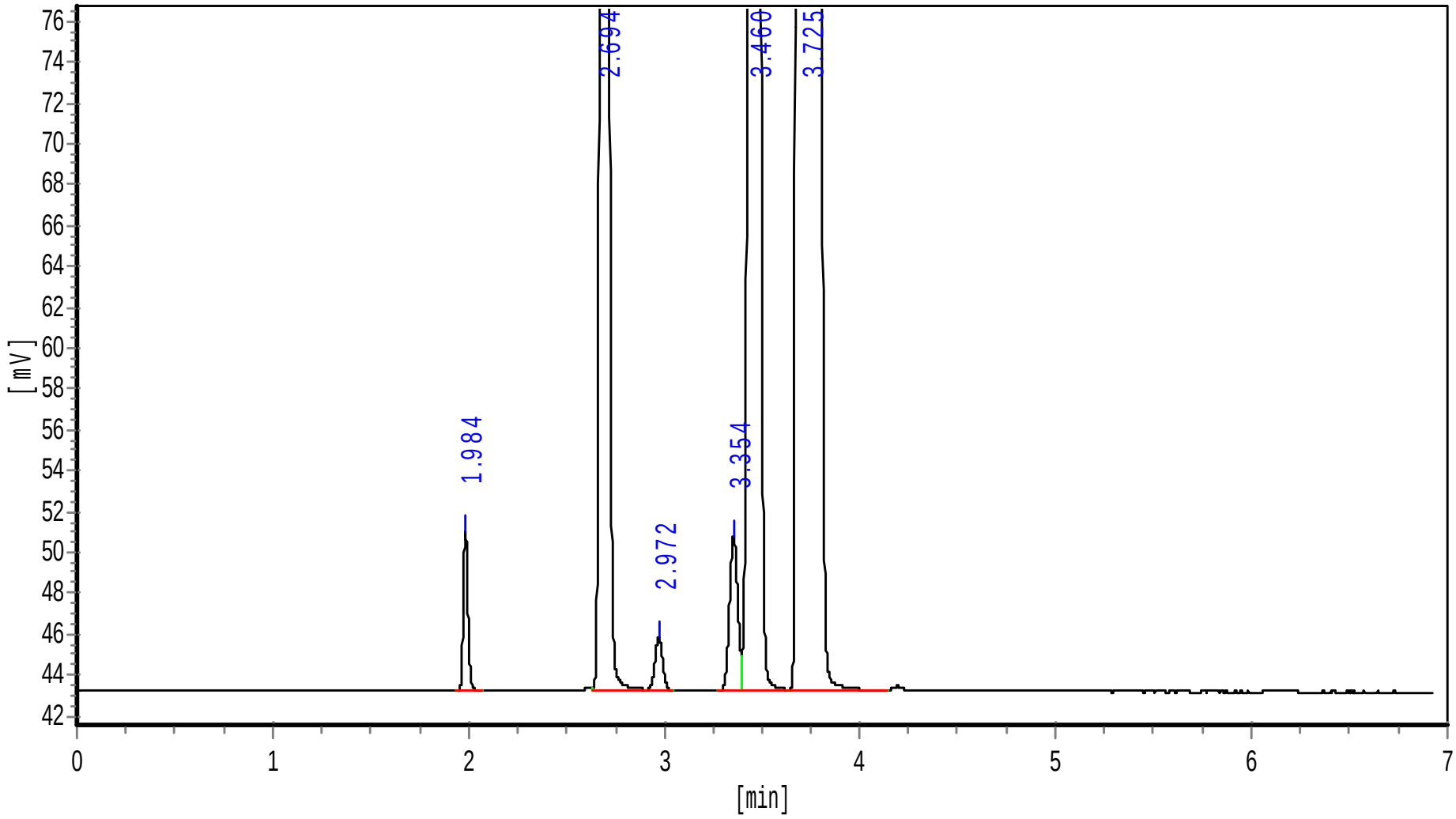
Ethanol/IPA Separation on GsBP-624 column

Instrumentation Conditions

- GC: Agilent 7890A w/ FID
- Cat no: *GsBP-624 30m x 0.32mm x 1.8um*
- Oven: 40°C
- Carrier: Hydrogen, 8psi
- Inlet: Split, 240 °C, split flow 50ml/min
- Detector: FID 260 °C
- Samples: Common solvents
- Inject volume: 1ul

Chromatogram:



Data analysis：

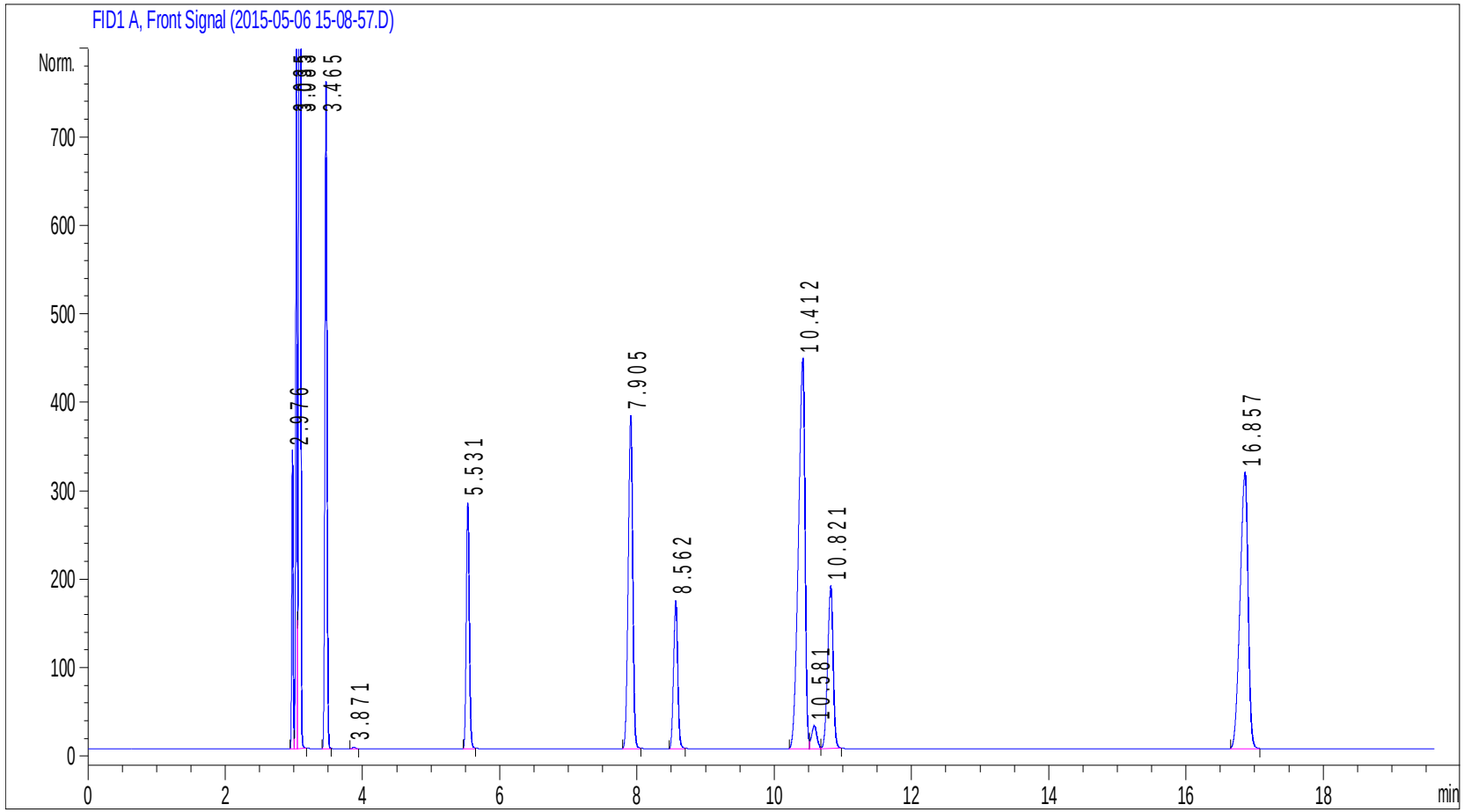
Peak#	compound	Retention Time
1	Methanol	1.984
2	Ethanol	2.694
3	Iso-propanol	2.972
4	Impurity	3.354
5	Acetonitrile	3.460
6	Dichloromethane	3.725

Ethanol/IPA Separation on GsBP-Inowax column

Instrumentation Conditions

- GC: Agilent 7890A w/ FID
- Cat no: 2032-6005 *GsBP-Inowax 60m x 0.32mm x 0.5um*
- Oven: 30°C
- Carrier: Hydrogen, 8psi
- Inlet: Split, 240 °C, split flow 50ml/min
- Detector: FID 260 °C
- Samples: solvents
- Inject volume: 1ul

Chromatogram:



Data analysis：

Peak#	compound	Retention Time	Resolution
1	Hexane isomers	2.976	
2		3.035	2.53
3		3.083	2.08
4	Cyclohexane	3.465	
5	Acetone	5.531	
6	Ehtyl acetate	7.905	
7	Methanol	8.562	
8	Iso-propanol	10.412	
9	Dichloromethane	10.581	1.86
10	Ethanol	10.821	2.83
11	Acetoneitrile	16.857	

email me the summary of EG on the water rinsed PEG columns, also try some experiment of 0.32mm x 30m column, 0.25um or 0.5um with/without water rinse.

work at your spare time to summary of IPA/Ethanol separation on different column, -1, Inowax, FFAP, 624, 1701 columns. IPA/EtOH is very difficult to be separated on Inowax with consistent results. there are a lot of misunderstanding/misleading for this topics.