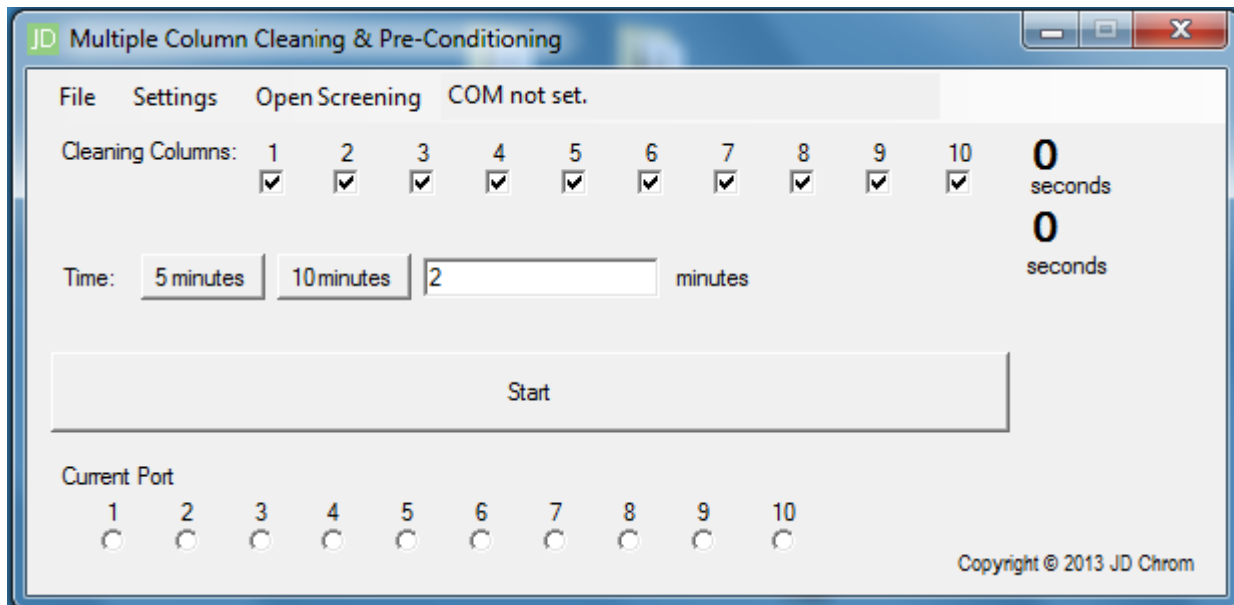


Application Example 1: Multiple Column Cleaning Operation

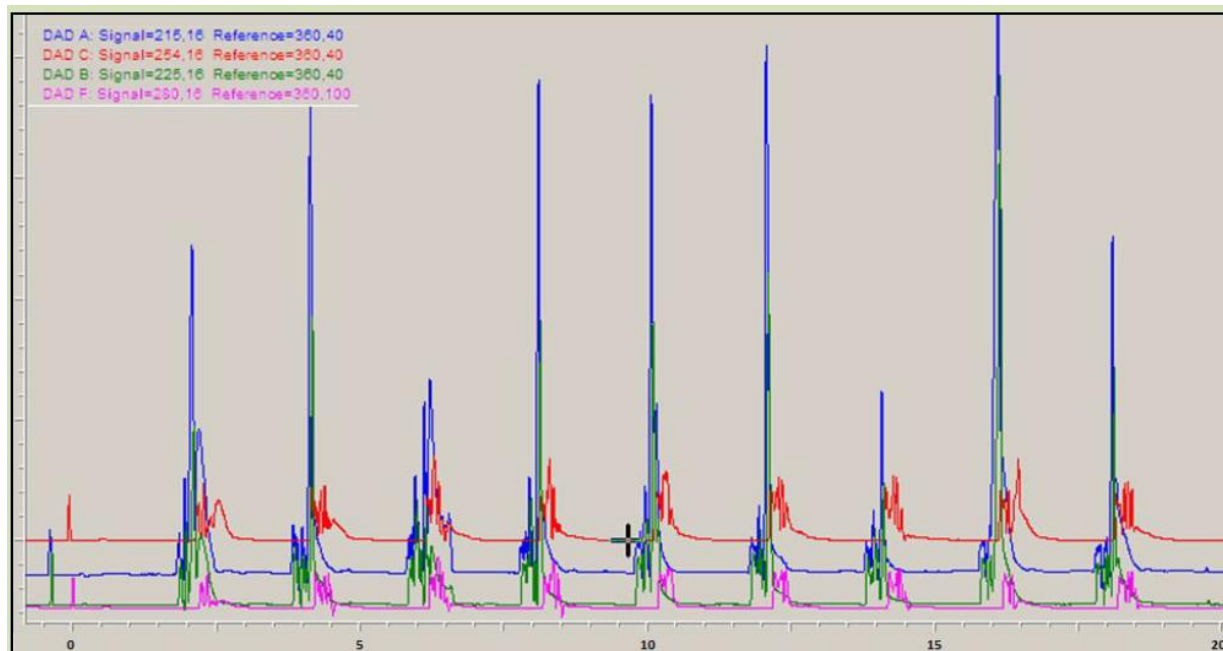
Operation Detail: A set of 10 columns spent 2 min. each in the cleaning process. Each peak represents the residual compounds from the column. These cleaned columns are now ready for the pre-conditioning phase.

Cleaning conditions: Flow rate =4.0 mL/min. Mobile phase: A/B (50/50) A: Methanol, B: Liquid CO₂.

Multiple Column Cleaning & Pre-Conditioning Settings



Resultant Chromatogram



Application Example 2: Ten Column Screening of a Racemate using Supercritical Fluid Chromatography

Experimental Condition:

Instrument: Agilent Aurora-SFC-MSD system

All chiral columns are from Chiral Technologies, and column dimensions are 2.1 mm x 100 mm, 3 μ m.

Flow Rate: 1.0 mL/min, gradient: Mobile Phase A: Liquid CO₂, B: Organic Solvent

Time =0 min, A/B 10/90, T=3 30/70, T=3.5 30/70, T=3.9 90/10, T=4.0 90/10

Column Arrangement:

Columns

Active Column Set

#1	AD-H	#6	IF
#2	OD-H	#7	AY
#3	AS-H	#8	AZ
#4	OJ-H	#9	OZ
#5	IC	#10	OX

Additional Column Sets

Saved Column Sets: Tier-1 10 CSPs

Buttons: Save/Add Set, Import Set, Add Set to List, Load Set, Delete Set, Delete Set/File

Allow deletion: Yes No

Methods Favorites | Available Methods | Available Columns

Multiple Column Screening Setup

Multiple Column Screening

File Preferences Open Cleaning Help

	COM	Port
▶ 1	5	1
2	5	2
3	5	3
4	5	4
5	5	5
6	5	6
7	5	7
8	5	8
9	5	9
10	5	10
* 11		

0 seconds
0 seconds

Start

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Sequence Setting

File Views

Generate Sequence

Required Information

12 Name Sample-1 15

Sample Location Identifier #1 Identifier #2 Injection Volume

Current default method: Not assigned Method in datafile name: Yes No

Selected method: Generic Gradient 10-70.M *Sequence uses default method if none selected

View Options: Simple

Preview

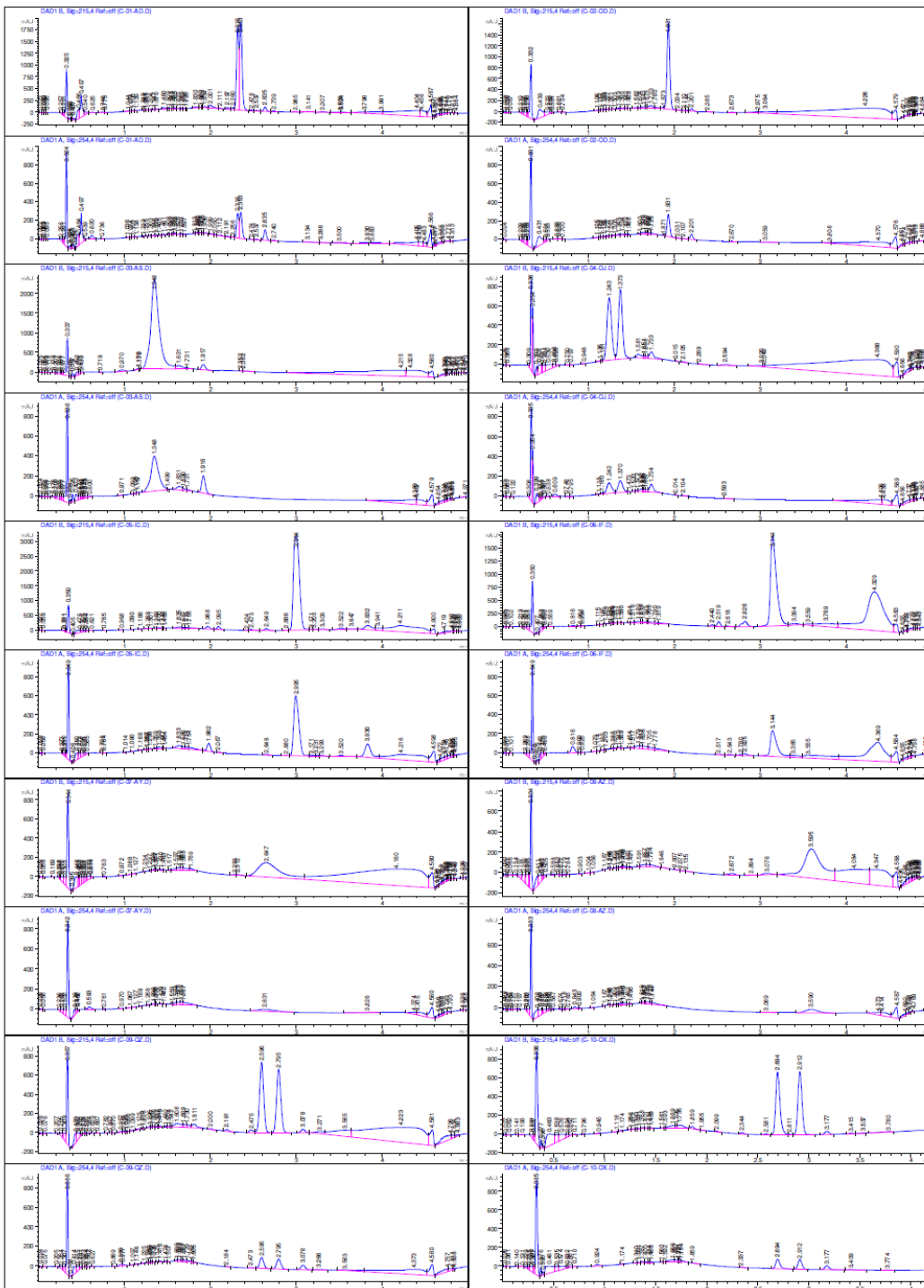
Local	Sample Name	Method Name	Inj/Vol	Datafile	Vol
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15
12	Name-Sample-1	Generic Gradient 10...	1	Name-Sample-1-Generi...	15

Save to CSV
Clear Preview



Printout of Screening Results using JD Chrom's Proprietary Chromatogram Stacking Program

1 minute is sufficient to display & print all chromatograms here.



*Chromatograms were drawn at both 215 and 254 nm for each column screening.



JD CHROM

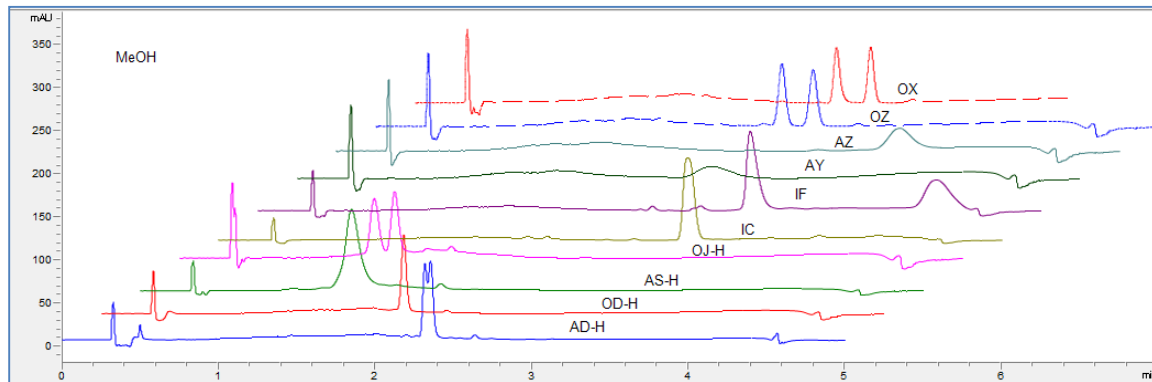
PO Box 19146
Newbury Park, CA 91319-9146

Email: support@jdchrom.com

Website: www.jdchrom.com

Stacked Chromatograms using Agilent ChemStation Software

30 minutes is the approximate length of time required to display all chromatograms as below.



*Chromatograms were drawn at 215 nm.

Application Example 3: Ten Column Screening of a Racemate using Supercritical Fluid Chromatography

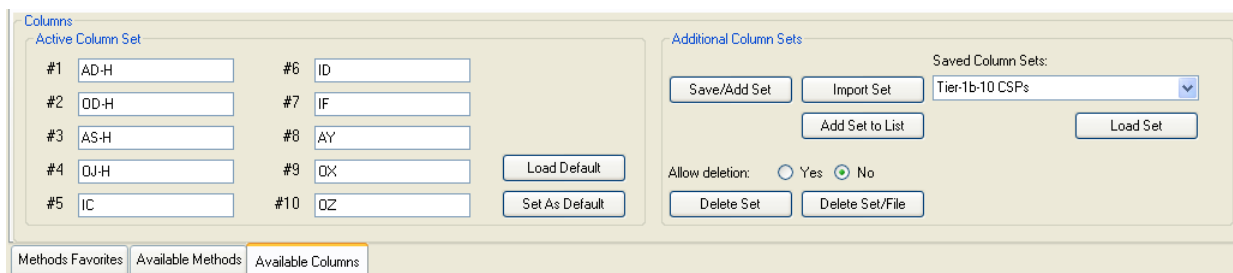
Experiment Condition:

Instrument: Agilent Aurora-SFC-UV system.

All chiral columns are from Chiral Technologies, and column dimensions are 4.6 mm x 150 mm, 5 µm.

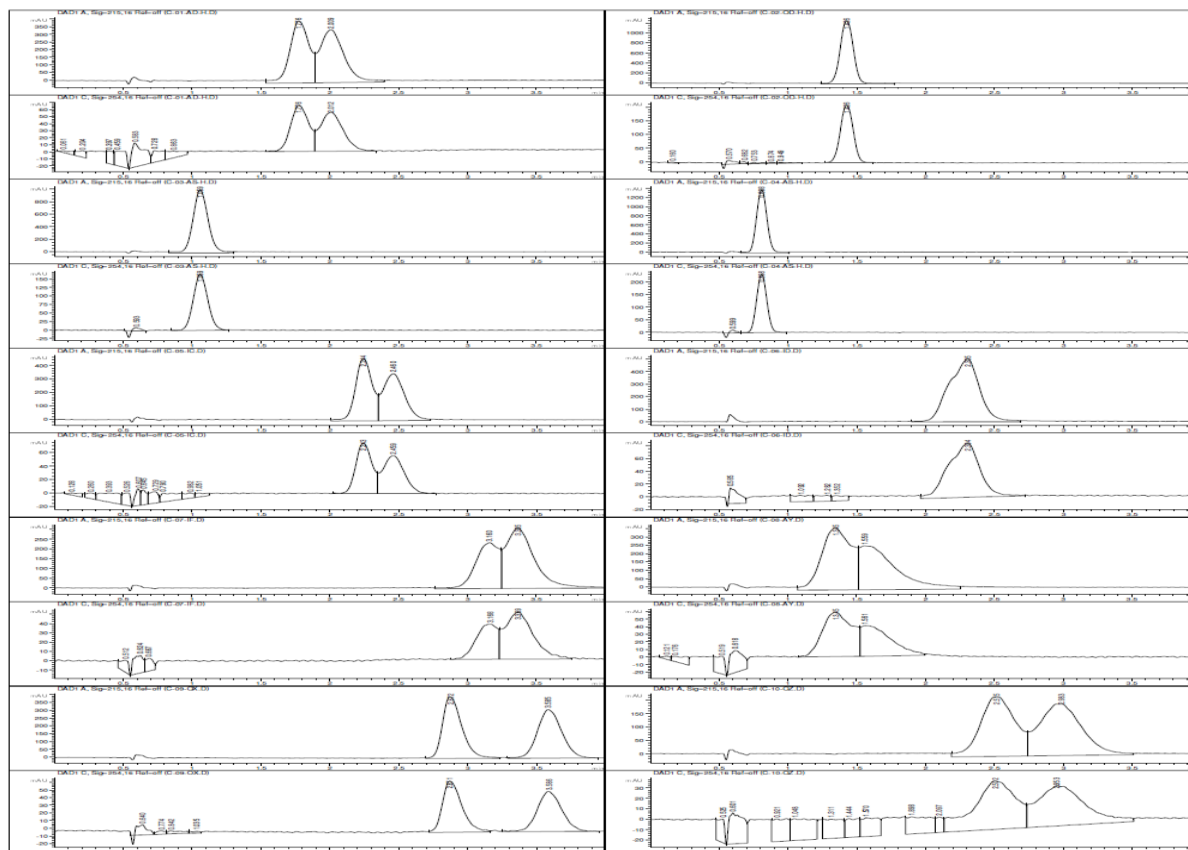
Flow Rate: 4.0 mL/min, 10% Ethanol and 90% Liquid CO₂

Column Arrangement:



Printout of Screening Results using JD Chrom’s Proprietary Chromatogram Stacking Program

1 minute is sufficient to display & print all chromatograms here.



JD CHROM

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Email: support@jdchrom.com
Website: www.jdchrom.com

Application Example 4: Twenty Column Screening of a Racemate using Supercritical Fluid Chromatography

Experiment Condition:

Instrument: Agilent Aurora-SFC-UV system

Column dimensions: 4.6 mm x 150 mm, 5 µm

Flow Rate: 4.0 mL/min, 20% Isopropanol and 80% Liquid CO₂

Column Arrangement:

The screenshot shows the 'Columns' configuration window with the following details:

- Active Column Set:**
 - #1: AD-H
 - #2: OD-H
 - #3: AS-H
 - #4: OJ-H
 - #5: IC
 - #6: ID
 - #7: IF
 - #8: AY
 - #9: OX
 - #10: OZ
- Buttons:** Load Default, Set As Default
- Additional Column Sets:** Save/Add Set, Import Set, Add Set to List, Load Set
- Saved Column Sets:** Tier-1b-10 CSPs
- Allow deletion:** Yes (radio), No (radio, selected)
- Buttons:** Delete Set, Delete Set/File
- Navigation:** Methods Favorites, Available Methods, Available Columns

The screenshot shows the 'Columns' configuration window with the following details:

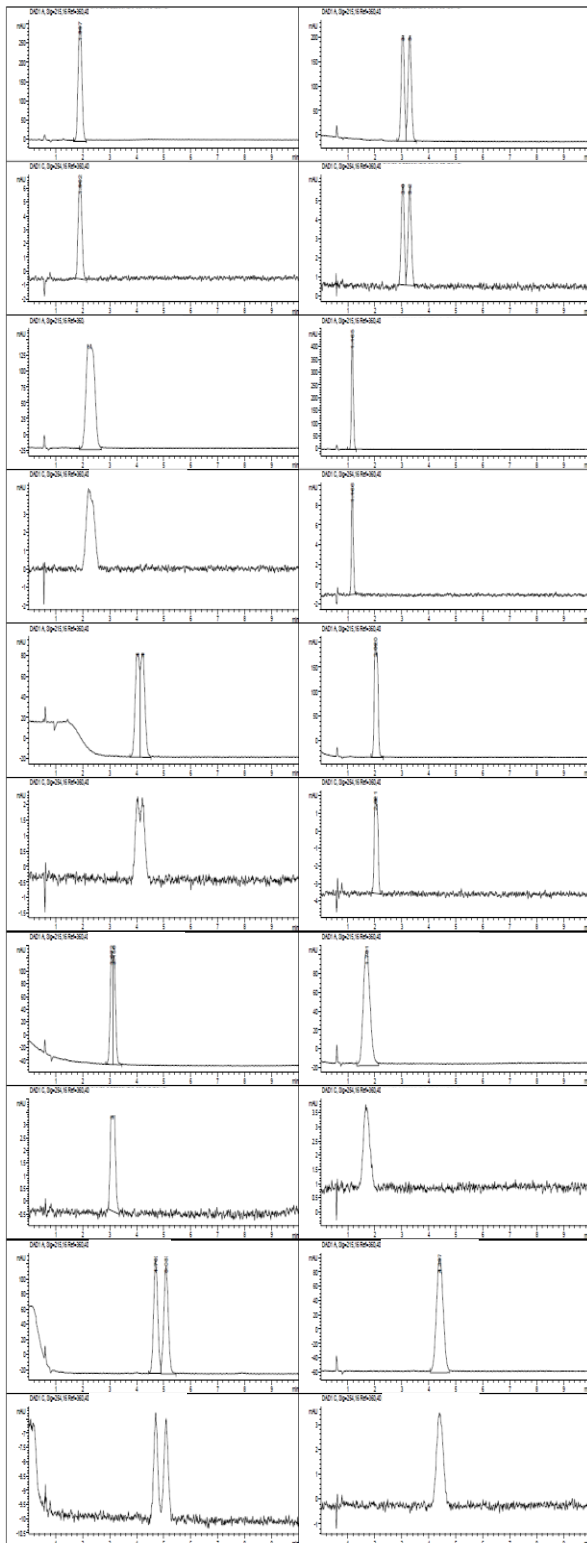
- Active Column Set:**
 - #1: IA
 - #2: IB
 - #3: IE
 - #4: AZ
 - #5: YAD-AC
 - #6: YDD-CC
 - #7: W0-1
 - #8: W0-2
 - #9: CC-4
 - #10: CC-2
- Buttons:** Load Default, Set As Default
- Additional Column Sets:** Save/Add Set, Import Set, Add Set to List, Load Set
- Saved Column Sets:** Tier-2 10 CSPs
- Allow deletion:** Yes (radio), No (radio, selected)
- Buttons:** Delete Set, Delete Set/File
- Navigation:** Methods Favorites, Available Methods, Available Columns



Printout of Screening Results using JD Chrom's Proprietary Chromatogram Stacking Program

1 minute is sufficient to display & print all chromatograms at 215 & 254 nm.

Tier 1b – 10 CSPs



Tier 2 – 10 CSPs

