Vectra Polaris specification:
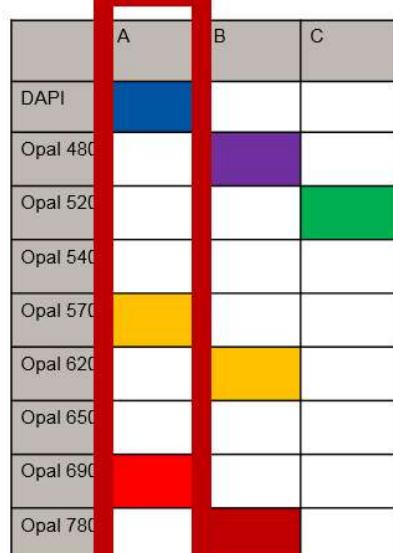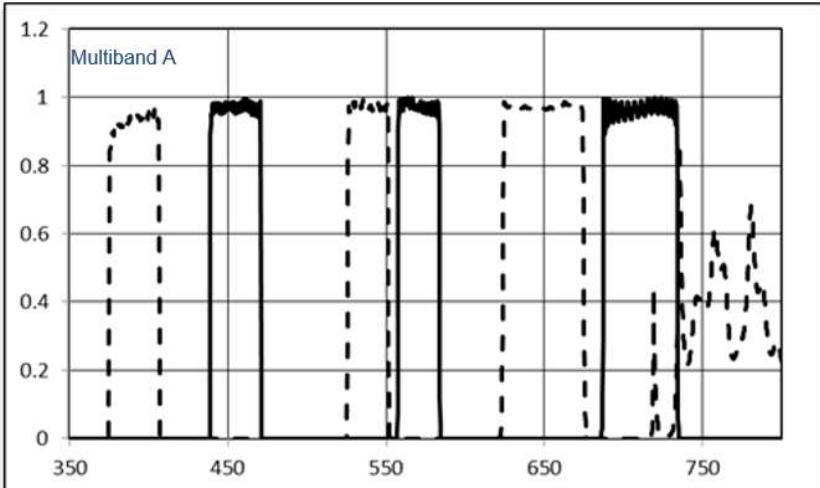
| Tissue Formats	Tissue microarrays (TMAs) and tissue sections
Multispectral Range	440 - 780 nm
Modality	Brightfield and Fluorescence (multispectral or color)
Fluorescence Whole Slide Scanning Speed (1.5 cm x 1.5 cm sample at 20X)	11 slides/ hour (7 Color Opal, unmixed)
Brightfield Whole Slide Scanning Speed (1.5 cm x 1.5 cm sample at 20X)	10 slides/hour
Slide Capacity	80 slide capacity, automated image acquisition
Max. slide dimension (L*W*H)	76 mm * 27 mm * 1 mm
Multiplexing Capability	Separates up to 9 colors
Image Analysis Software (inForm)	Machine learning interface to automatically segment and quantitate tissue structures, cells and sub-cellular signatures
Resolution	10X (1.0 µm/pixel), 20X (0.5 µm/pixel) and 40X (0.25 µm/pixel)
Whole slide image (.qbtiff) file size (1.5 cm x 1.5 cm sample at 20X, 7 color)	~3 GB per file
Multispectral image (.im3) file size (1862 µm x 1396 µm field at 20X, 7 color)	~700 MB per file
File Format	PerkinElmer Whole slide scan image (.qptiff), PerkinElmer multispectral images (.im3), monochrome or color images (JPEG, TIFF, BMP, PNG)

Filter information:

Scan filters:	DAPI, Opal 480, Opal 520, Opal 570, Opal 620, Opal 690, Opal 780
Multispectral filters:	DAPI MSI, Opal 480, FITC, Cy3, Texas Red, Cy5, Opal 780

Vectra Polaris Multi-Band Filter A
DAPI / Opal570 / 690
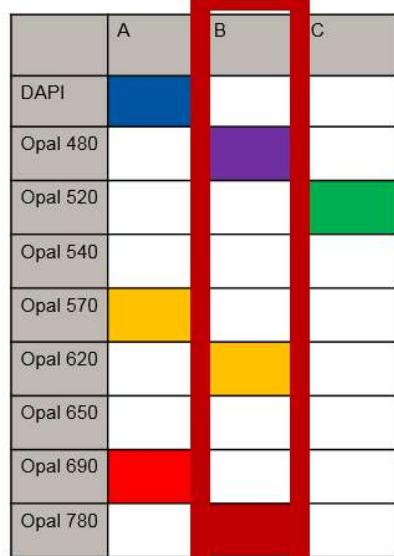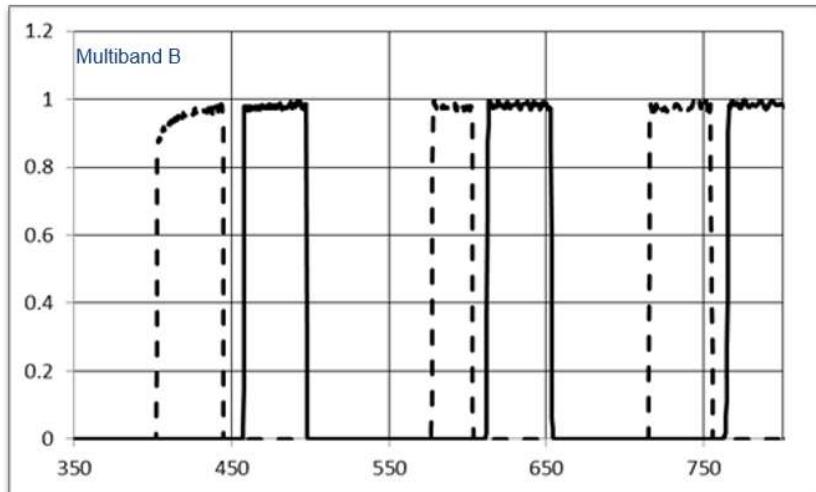
Part #	Filter Accy.	Exc band 1		Em band 1		Ex band 2		Em band 2		Ex band 3		Em band 3	
		CWL	FWHM	CWL	FWHM	CWL	FWHM	CWL	FWHM	CWL	FWHM	CWL	FWHM
CLS150078	A	391	32	453	30	538	25	571	20	649	50	709	40

Vectra Polaris Multi-Band Filter B
Opal 480 / 620 / 780
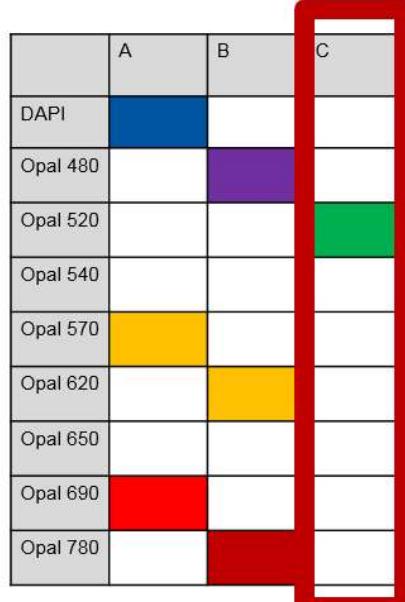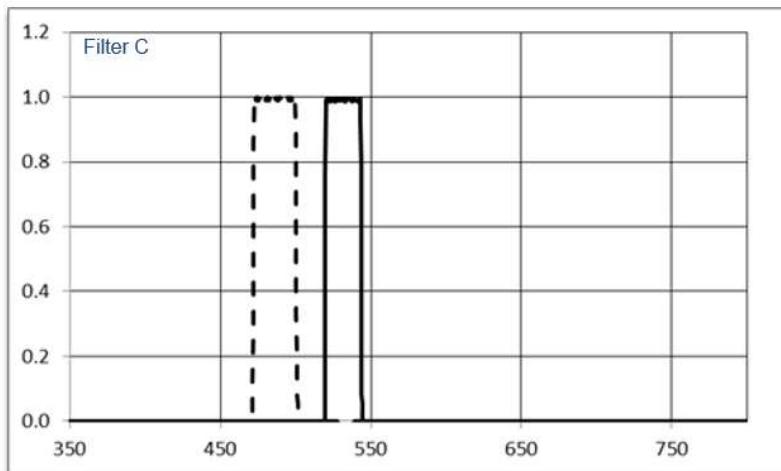
Part #	Filter Accy.	Exc band 1		Em band 1		Ex band 2		Em band 2		Ex band 3		Em band 3	
		CWL	FWHM	CWL	FWHM	CWL	FWHM	CWL	FWHM	CWL	FWHM	CWL	FWHM
CLS150079	B	424	42	478	40	590	25	633	40	735	40	832	135

Vectra Polaris Narrow Band Green Filter C
Opal 520

Part #	Filter Accy.	Exc band 1		Em band 1	
		CWL	FWHM	CWL	FWHM
CLS150077	C	486	30	532	18

2019 Vectra Polaris Filter Cube Configuration

	9 Color Unmixing for Regions of Interest					(empty slot)	7 Color Whole Slide Unmixing (designed specifically for Opal)				
	DAPI + Opal 780	FITC	Cy3	Texas Red	Opal 480 + Cy5		DAPI + O570/690	Opals480 620/780	Opal 520	Sample AF	
DAPI	■ (blue)						■ (blue)				Autofluorescence Detection
Opal 480					■ (purple)			■ (purple)			
Opal 520		■ (green)							■ (green)		
Opal 540		■ (green)	■ (yellow)								
Opal 570		■ (green)	■ (yellow)	■ (orange)			■ (orange)				
Opal 620			■ (yellow)	■ (orange)				■ (orange)			
Opal 650				■ (orange)	■ (red)						
Opal 690					■ (red)		■ (red)				
Opal 780	■ (dark red)							■ (dark red)			

Centre for Panorama (watermark)