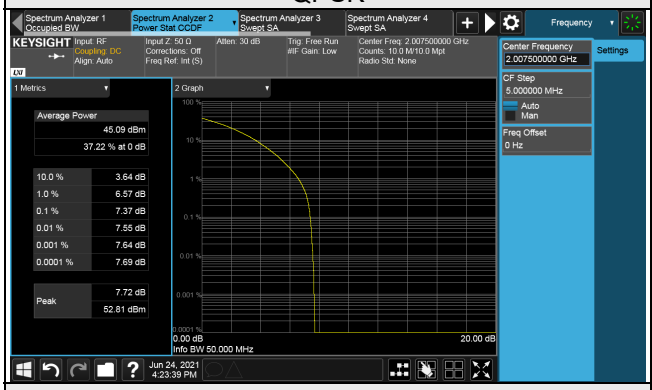
5MHz+20MHz

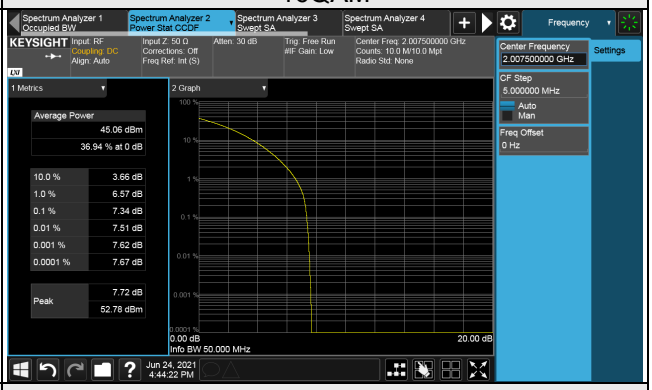
Channel Number	Freq. (MHz)	Peak-to-Average Power Ratio (dB)															
		Ant. TX0				Ant. TX1				Ant. TX2				Ant. TX3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
399500+ 402000	1997.5+ 2010.0	7.37	7.34	7.37	7.39	7.37	7.34	7.37	7.36	7.35	7.34	7.37	7.35	7.37	7.34	7.37	7.34

Spectrum Plot of Worst Value

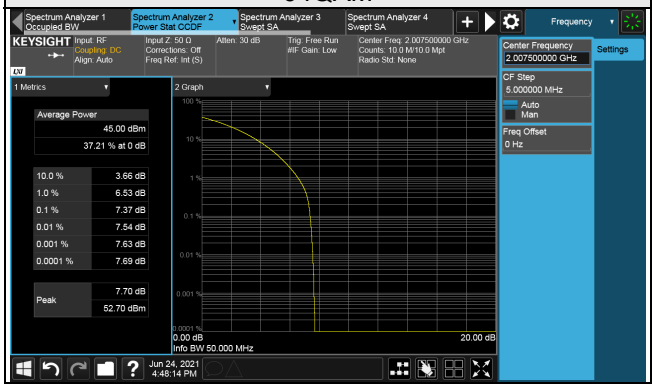
QPSK



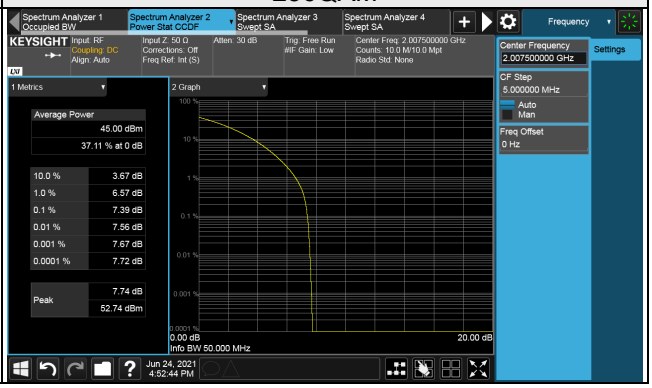
16QAM



64QAM



256QAM

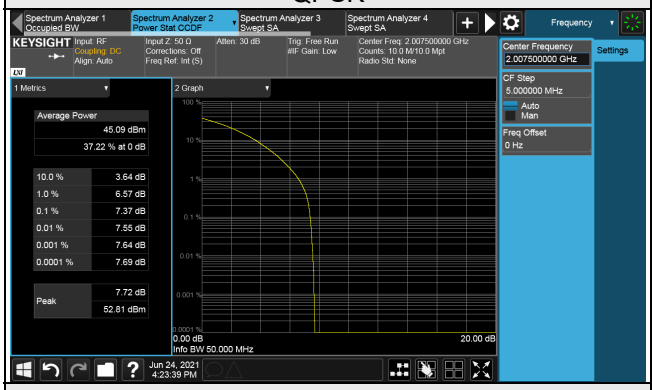


20MHz+5MHz

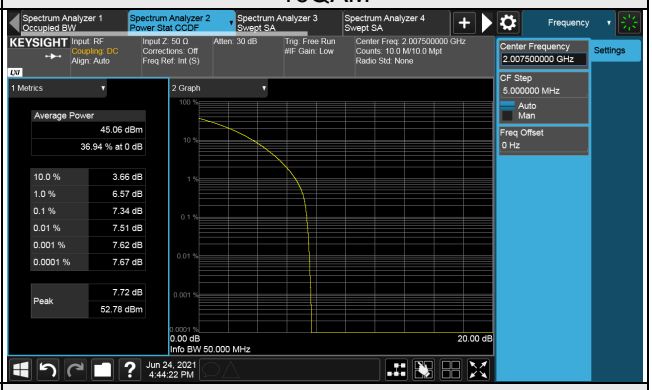
Channel Number	Freq. (MHz)	Peak-to-Average Power Ratio (dB)															
		Ant. TX0				Ant. TX1				Ant. TX2				Ant. TX3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
401000+ 403500	2005.0+ 2017.5	7.37	7.34	7.37	7.39	7.37	7.34	7.37	7.36	7.35	7.34	7.37	7.35	7.37	7.34	7.37	7.34

Spectrum Plot of Worst Value

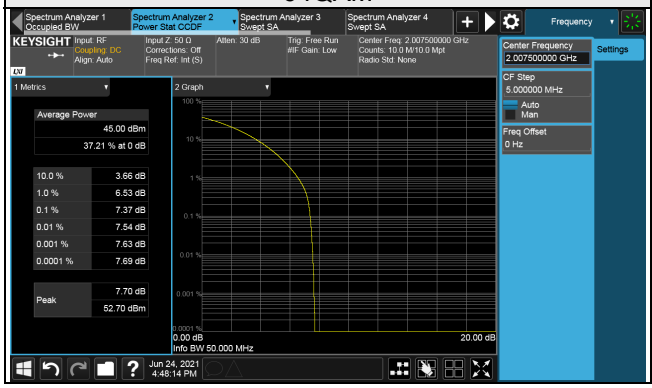
QPSK



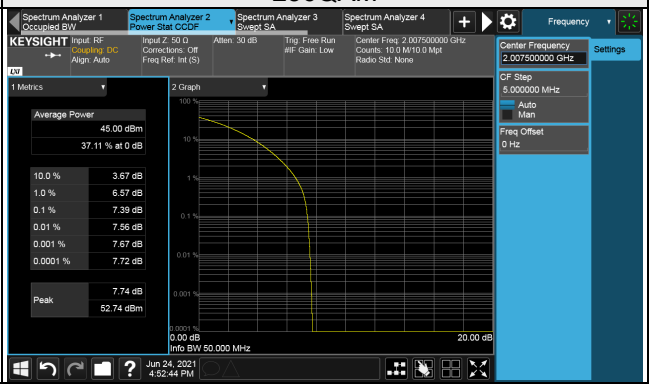
16QAM



64QAM



256QAM



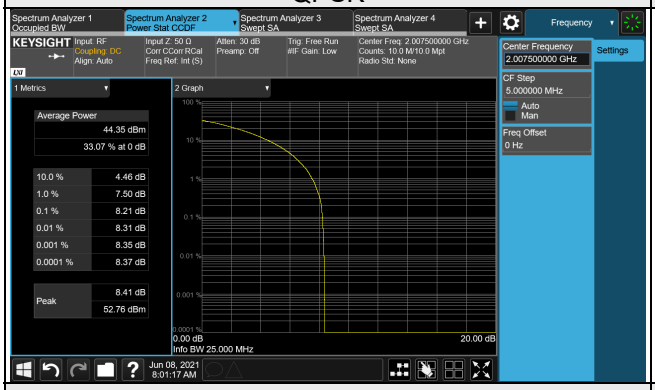
CA-NC Non-Contiguous

5MHz+5MHz

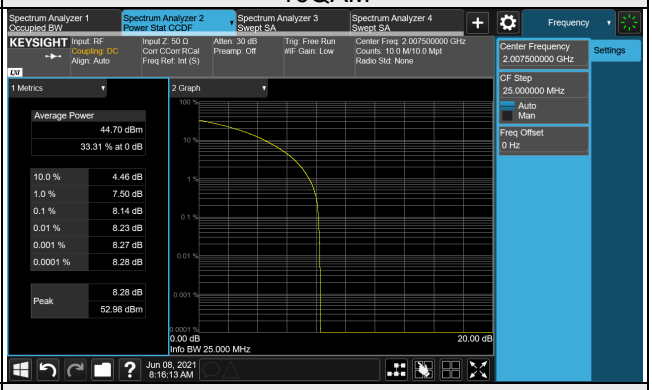
Channel Number	Freq. (MHz)	Peak-to-Average Power Ratio (dB)															
		Ant. TX0				Ant. TX1				Ant. TX2				Ant. TX3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
399500+ 403500	1997.5+ 2017.5	8.21	8.10	8.13	8.21	8.19	8.14	8.13	8.21	8.19	8.14	8.12	8.21	8.18	8.12	8.09	8.20

Spectrum Plot of Worst Value

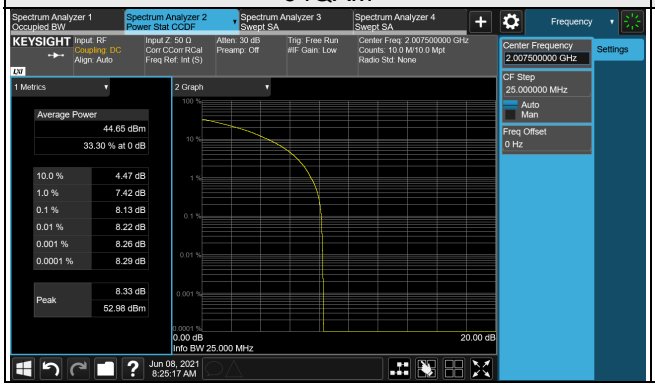
QPSK



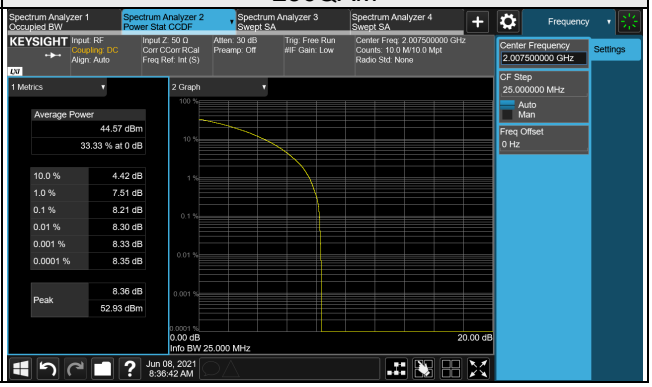
16QAM



64QAM



256QAM



4.7 Conducted Spurious Emissions

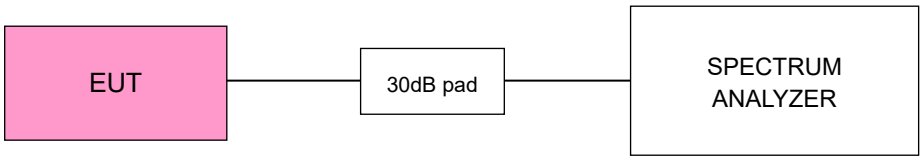
4.7.1 Limits of Conducted Spurious Emissions Measurement

In the FCC 27.53(h)(1),On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB.

Note:
This device can be impelement MIMO function, so the limit of spurious emissions needs to be reduced by 10log($Numbers_{Ant}$) according to FCC KDB 662911 D01 guidance.

(4TX: The limit is adjusted to -13dBm – 10*log(4) = -19.02dBm.)

4.7.2 Test Setup



4.7.3 Test Procedure

a. All measurements were done at 3 channels: low, middle and high operational frequency range.

b. When the spectrum scanned from 9kHz to 26GHz, it shall be connected to the 30dB pad attenuated the carried frequency.

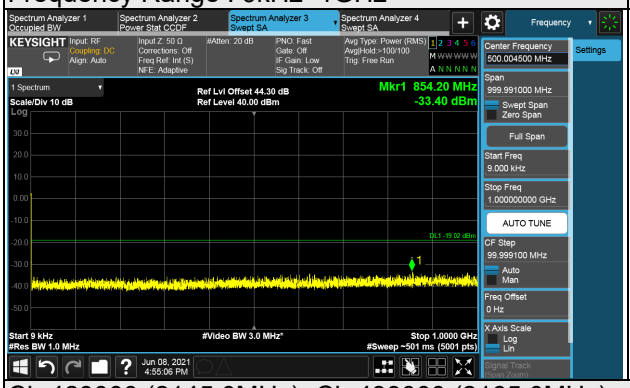
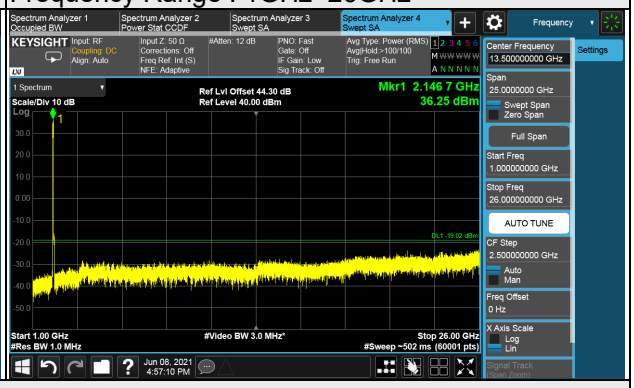
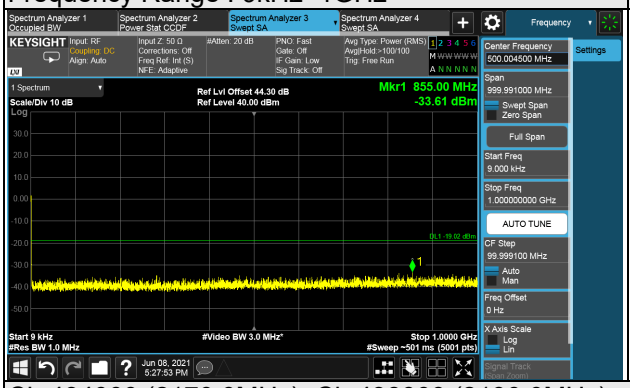
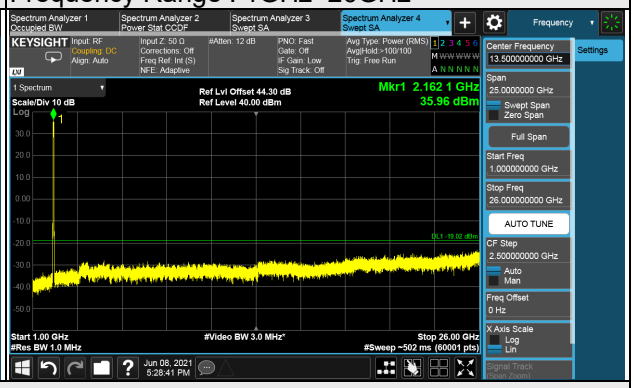
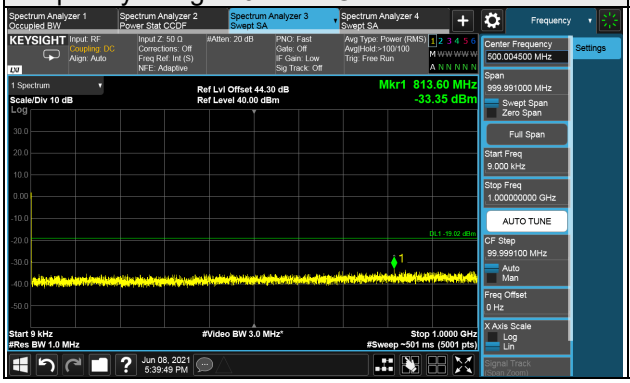
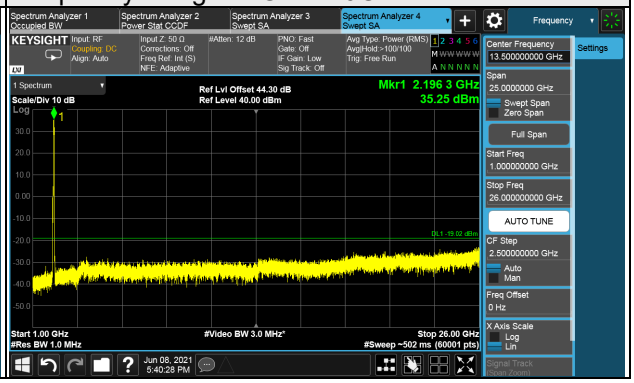
c. S.A. setting: RBW=1MHz, VBW=3MHz, Detector=RMS (Power average)

4.7.4 Test Results

Band n66

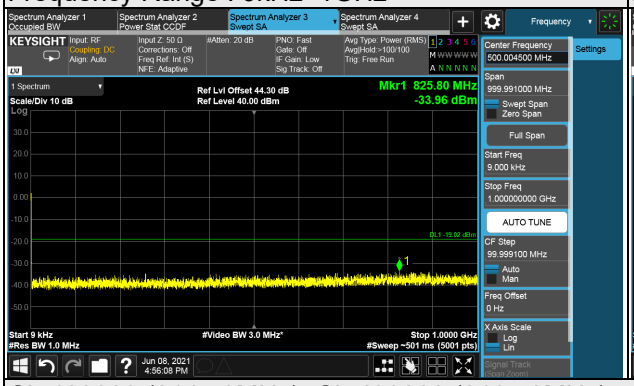
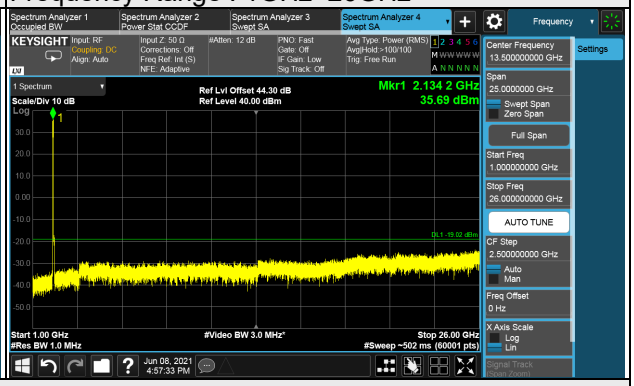
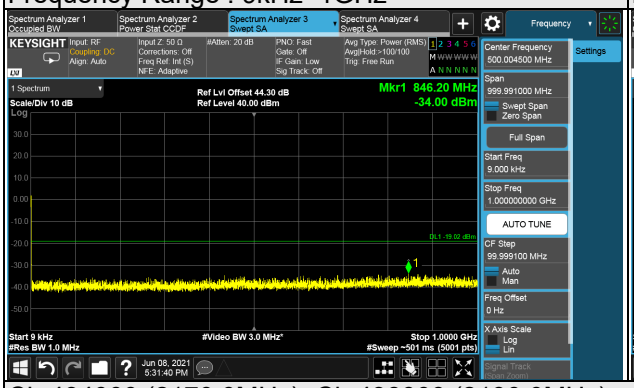
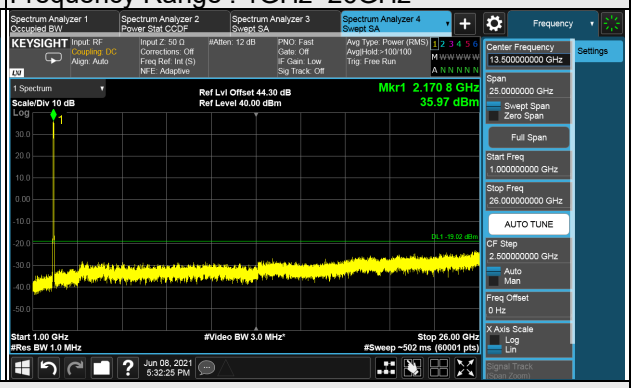
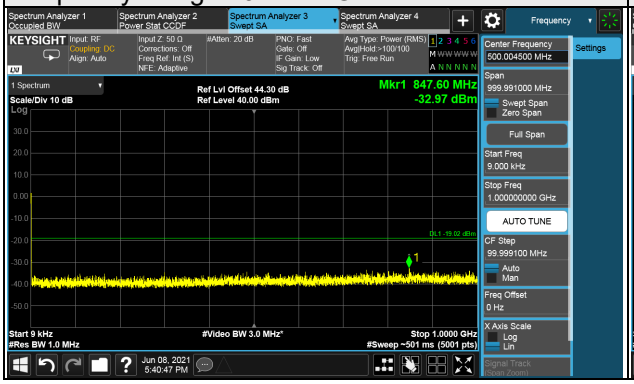
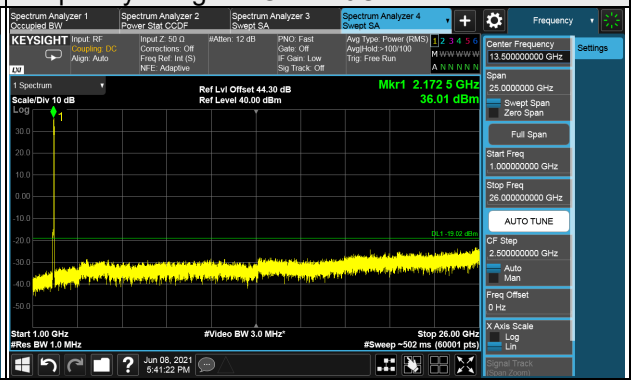
CA Contiguous

20MHz+20MHz-Ant. TX 0

16QAM	
Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	

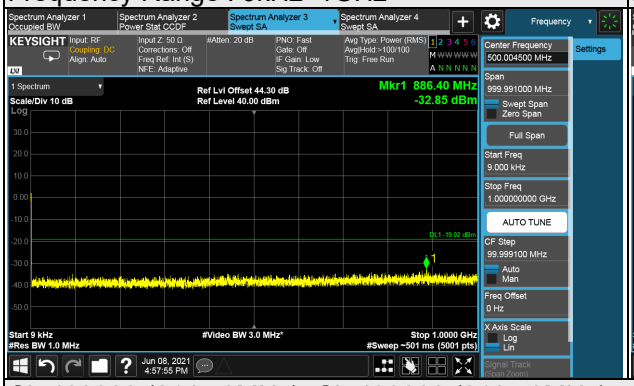
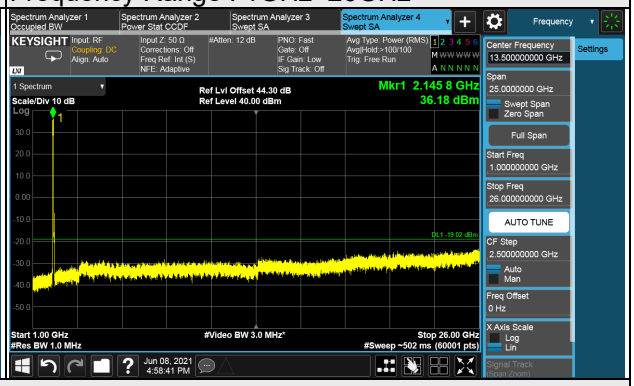
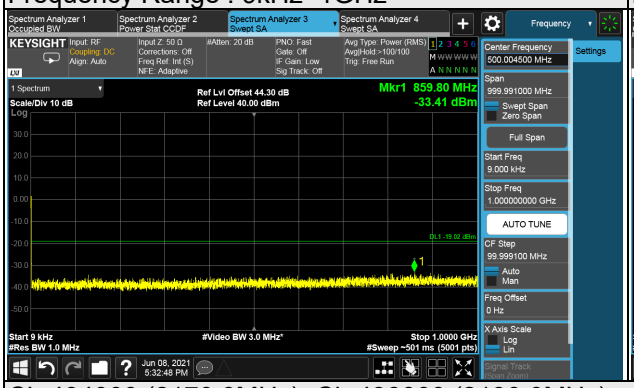
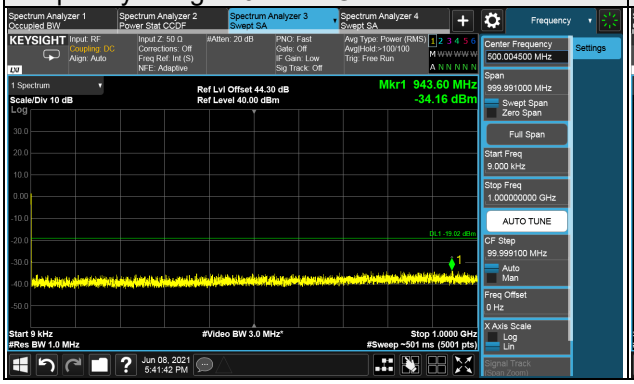
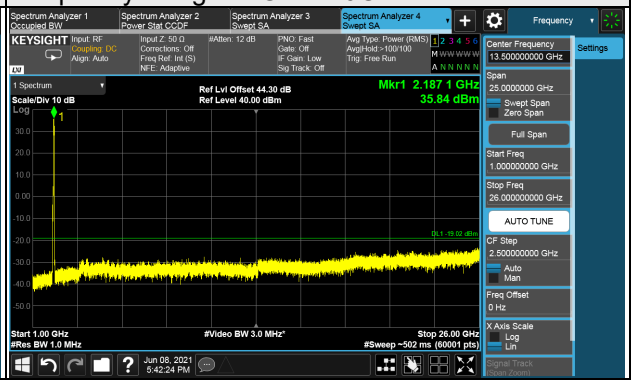
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

20MHz+20MHz-Ant. TX 1

16QAM	
Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	

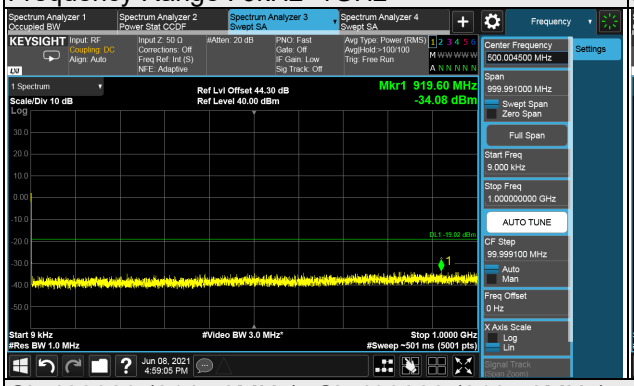
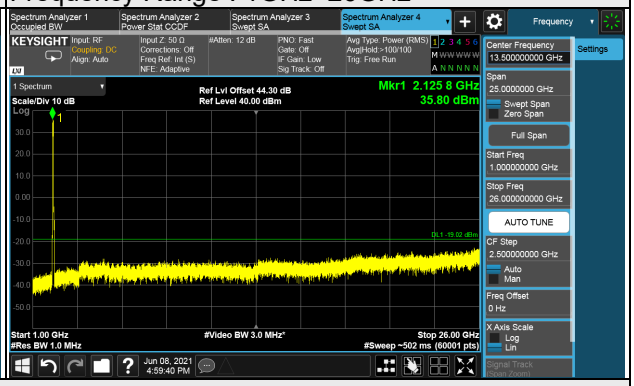
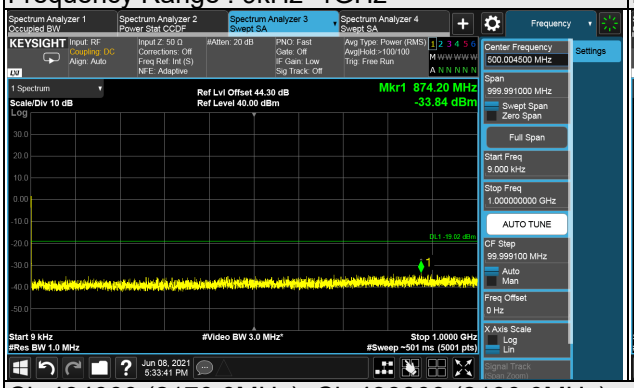
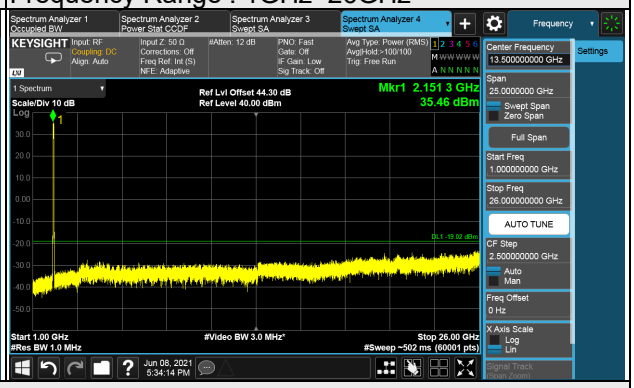
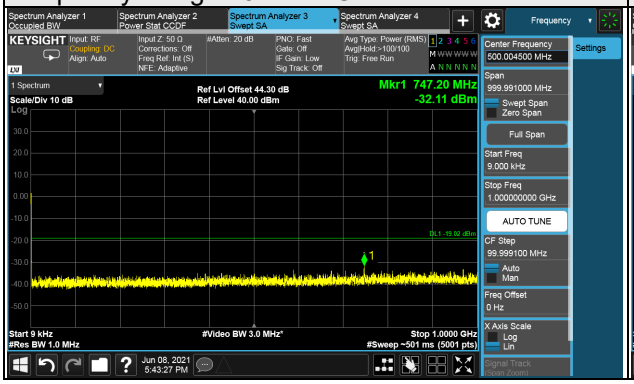
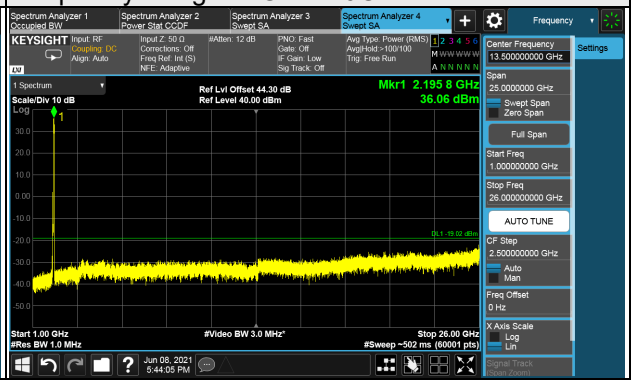
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

20MHz+20MHz-Ant. TX 2

16QAM	
Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

20MHz+20MHz-Ant. TX 3

16QAM	
Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	

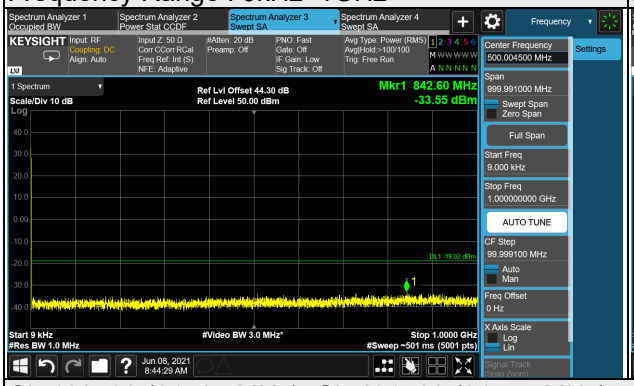
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

5MHz+5MHz-Ant. TX 0

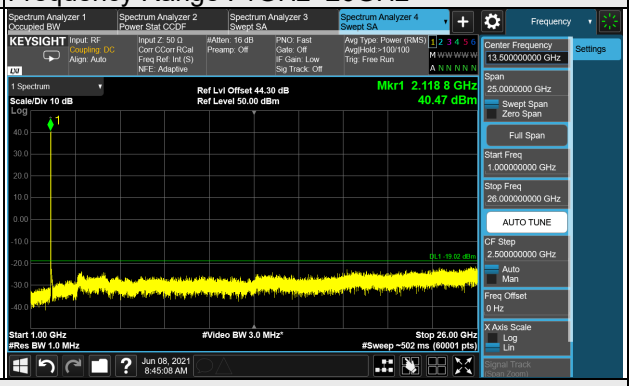
16QAM

Ch 422500 (2112.5MHz)+Ch 423500 (2117.5MHz)

Frequency Range : 9kHz~1GHz

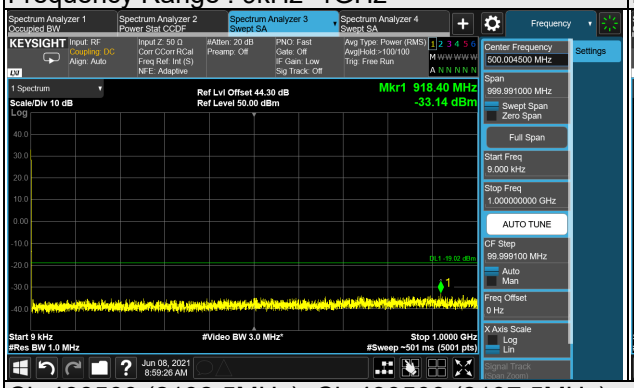


Frequency Range : 1GHz~26GHz

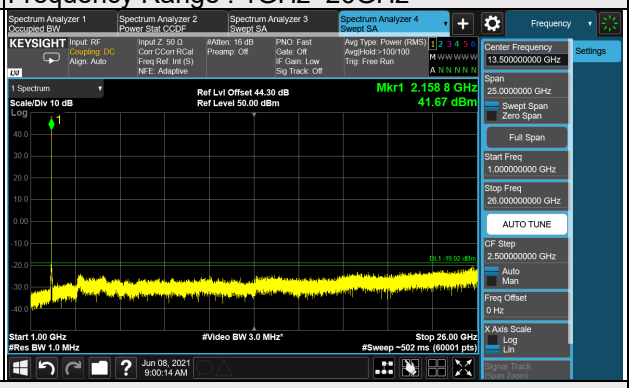


Ch 430500 (2152.5MHz)+Ch 431500 (2157.5MHz)

Frequency Range : 9kHz~1GHz

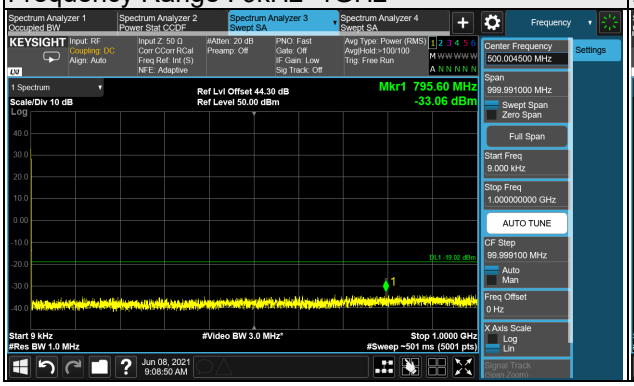


Frequency Range : 1GHz~26GHz

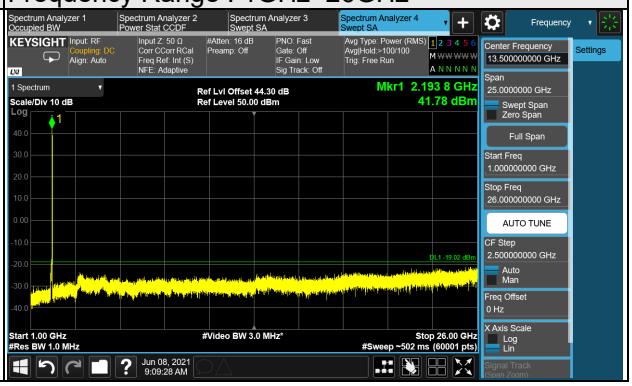


Ch 438500 (2192.5MHz)+Ch 439500 (2197.5MHz)

Frequency Range : 9kHz~1GHz

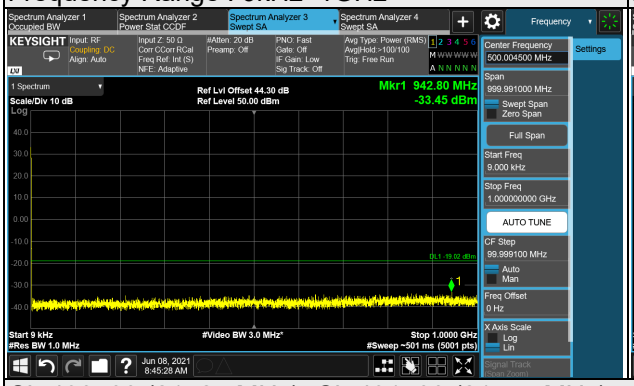
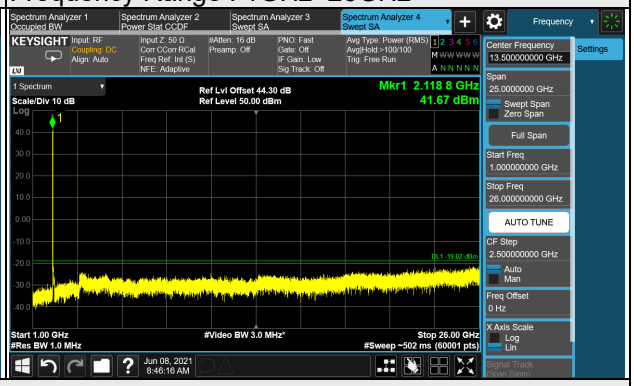
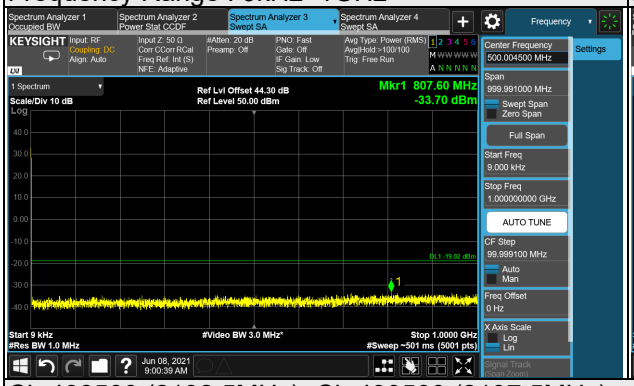
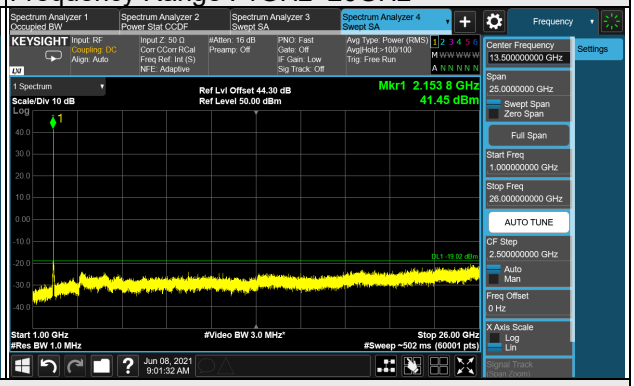
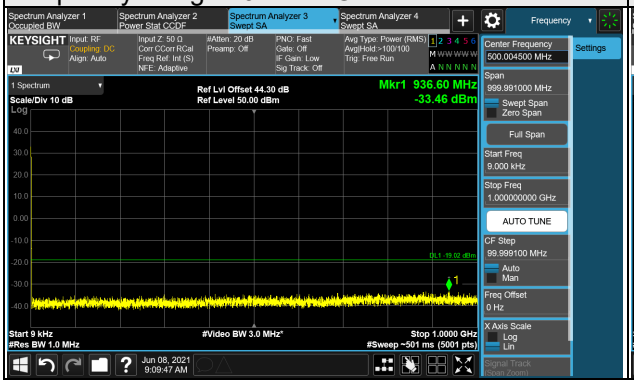
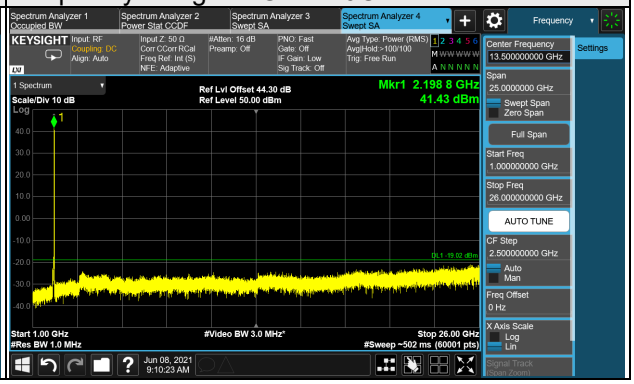


Frequency Range : 1GHz~26GHz



Note: The signal at 9 kHz is IF signal from spectrum analyzer.

5MHz+5MHz-Ant. TX 1

16QAM	
Ch 422500 (2112.5MHz)+Ch 423500 (2117.5MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 430500 (2152.5MHz)+Ch 431500 (2157.5MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 438500 (2192.5MHz)+Ch 439500 (2197.5MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	

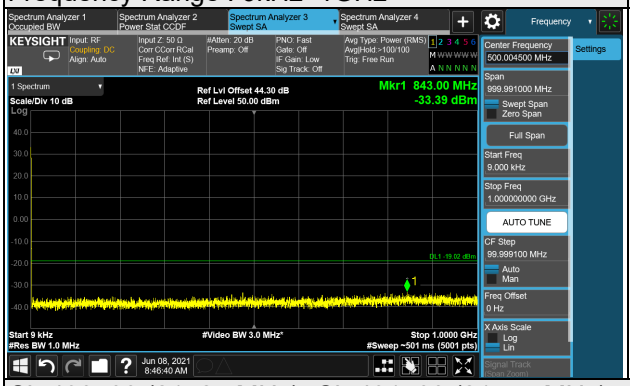
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

5MHz+5MHz-Ant. TX 2

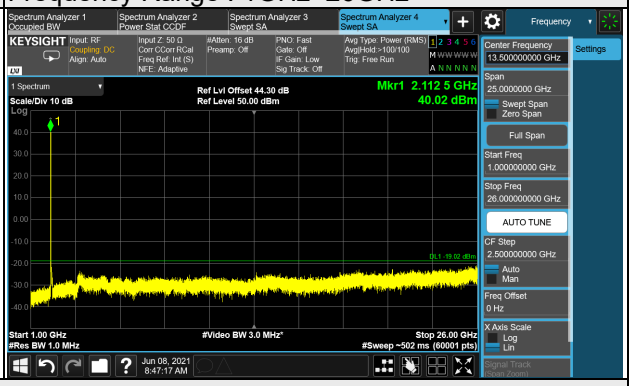
16QAM

Ch 422500 (2112.5MHz)+Ch 423500 (2117.5MHz)

Frequency Range : 9kHz~1GHz

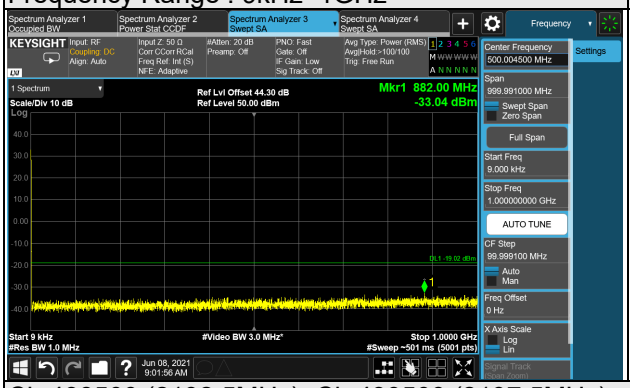


Frequency Range : 1GHz~26GHz

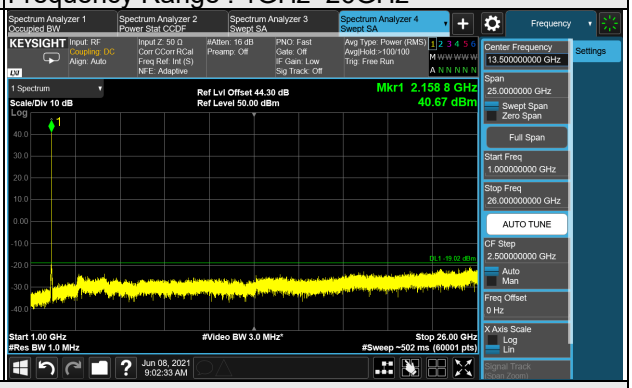


Ch 430500 (2152.5MHz)+Ch 431500 (2157.5MHz)

Frequency Range : 9kHz~1GHz

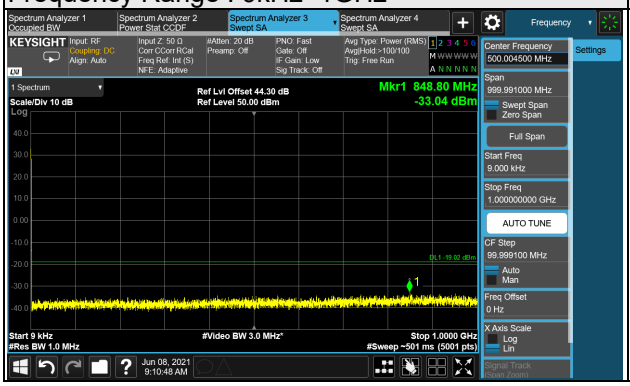


Frequency Range : 1GHz~26GHz

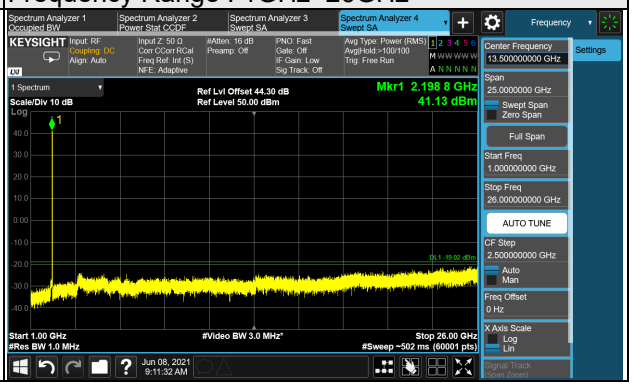


Ch 438500 (2192.5MHz)+Ch 439500 (2197.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~26GHz



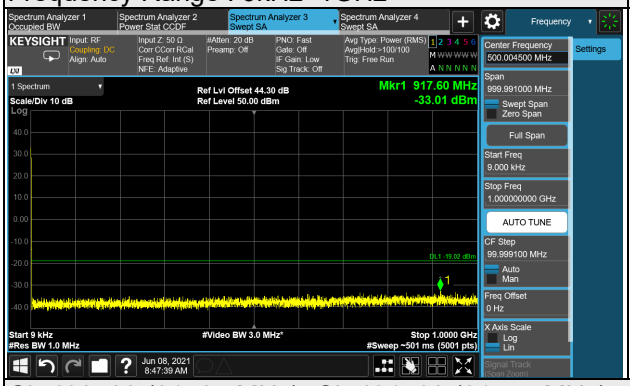
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

5MHz+5MHz-Ant. TX 3

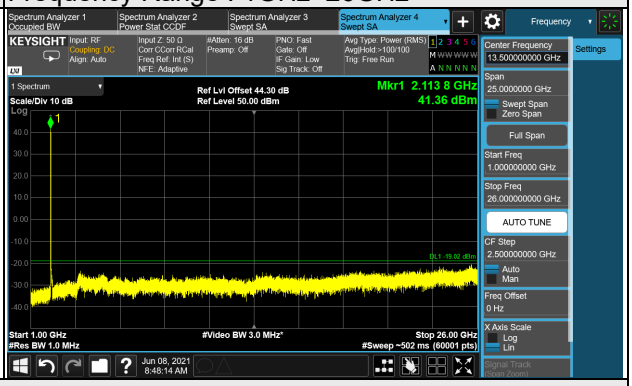
16QAM

Ch 422500 (2112.5MHz)+Ch 423500 (2117.5MHz)

Frequency Range : 9kHz~1GHz

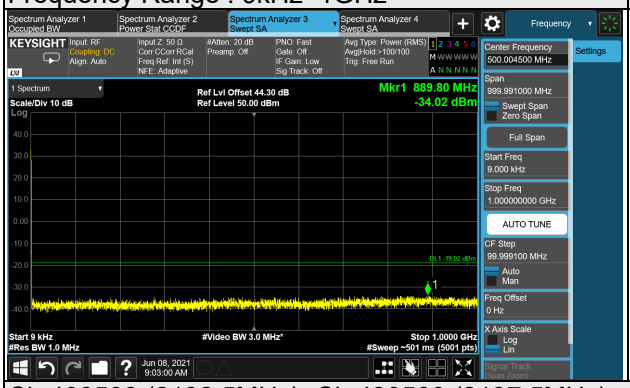


Frequency Range : 1GHz~26GHz

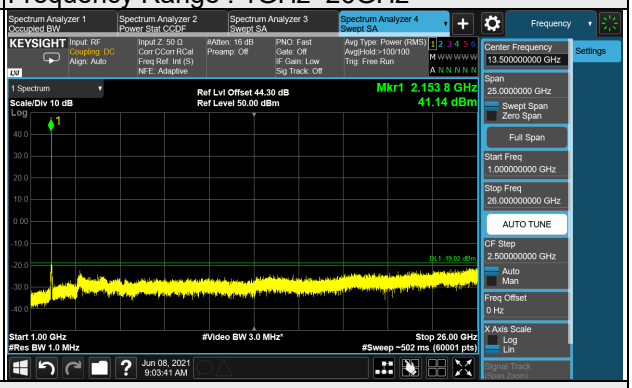


Ch 430500 (2152.5MHz)+Ch 431500 (2157.5MHz)

Frequency Range : 9kHz~1GHz

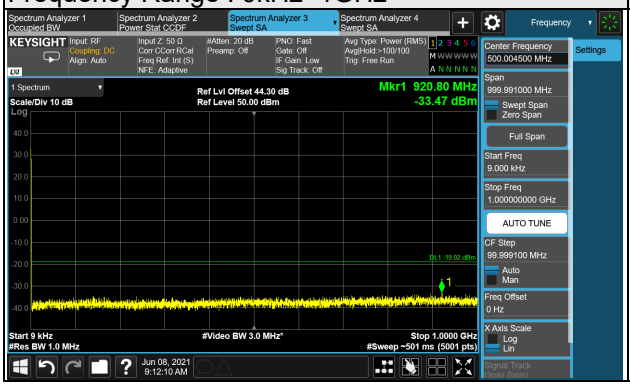


Frequency Range : 1GHz~26GHz

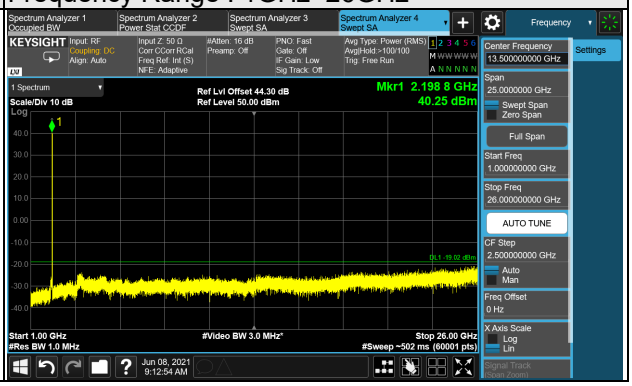


Ch 438500 (2192.5MHz)+Ch 439500 (2197.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~26GHz



Note: The signal at 9 kHz is IF signal from spectrum analyzer.

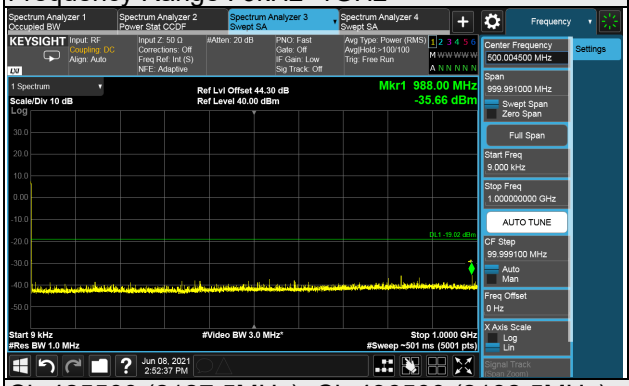
CA-NC Non-Contiguous

5MHz+5MHz-Ant. TX 0

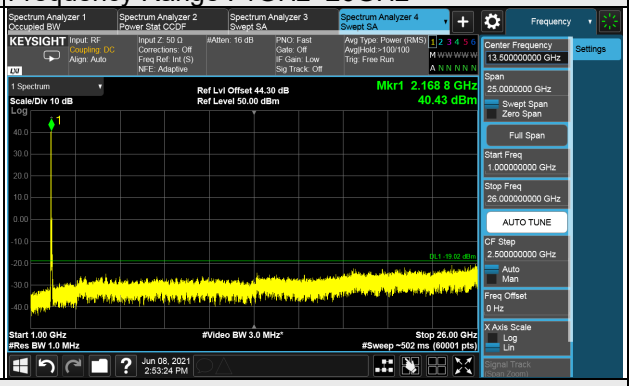
16QAM

Ch 422500 (2112.5MHz)+Ch 433500 (2167.5MHz)

Frequency Range : 9kHz~1GHz

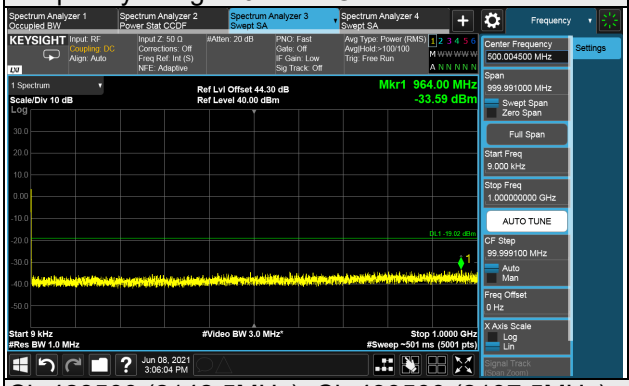


Frequency Range : 1GHz~26GHz

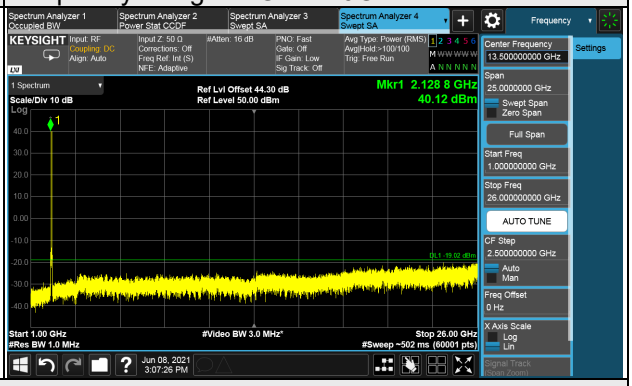


Ch 425500 (2127.5MHz)+Ch 436500 (2182.5MHz)

Frequency Range : 9kHz~1GHz

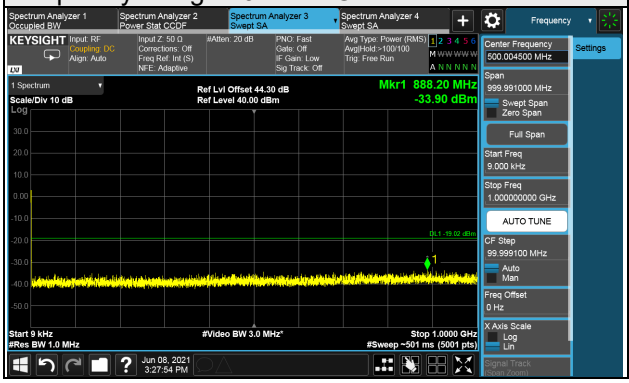


Frequency Range : 1GHz~26GHz

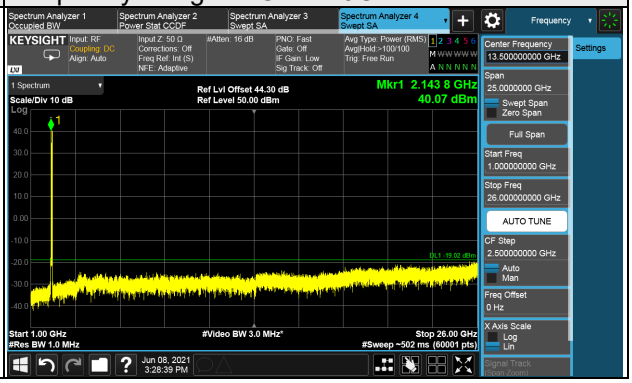


Ch 428500 (2142.5MHz)+Ch 439500 (2197.5MHz)

Frequency Range : 9kHz~1GHz

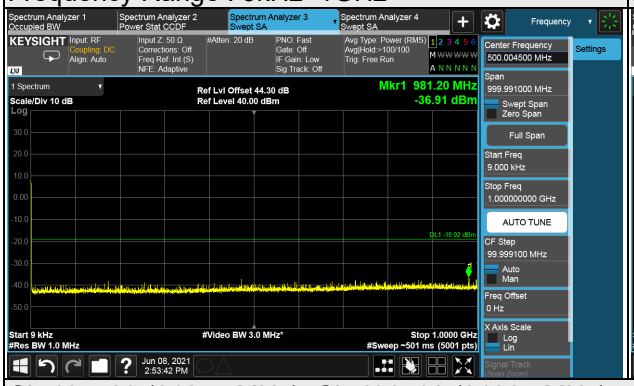
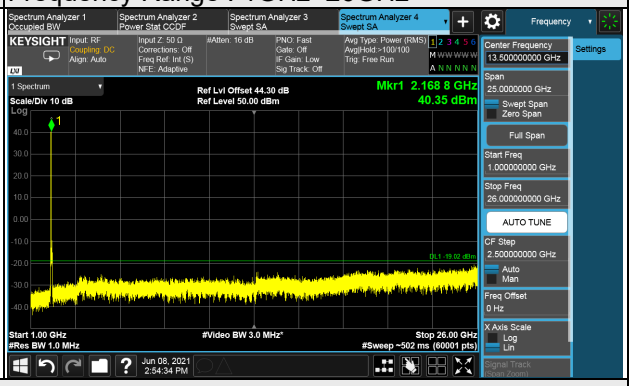
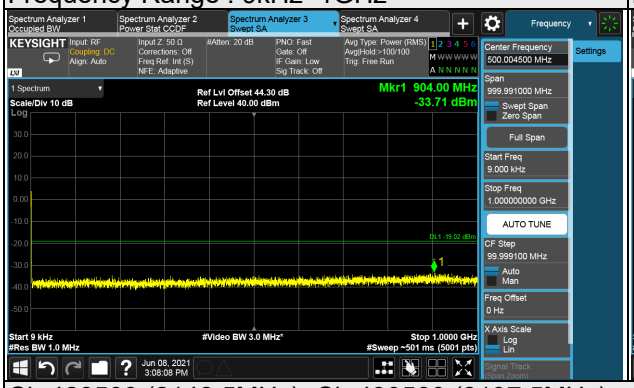
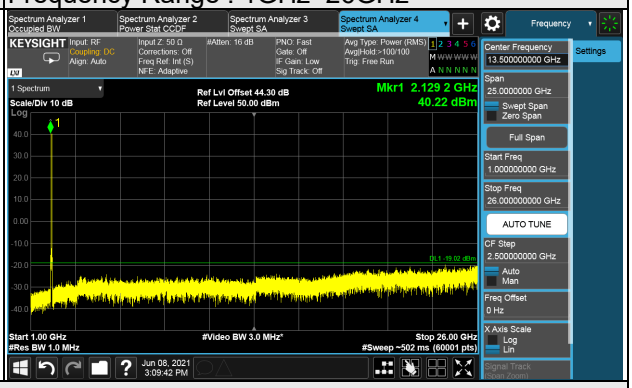
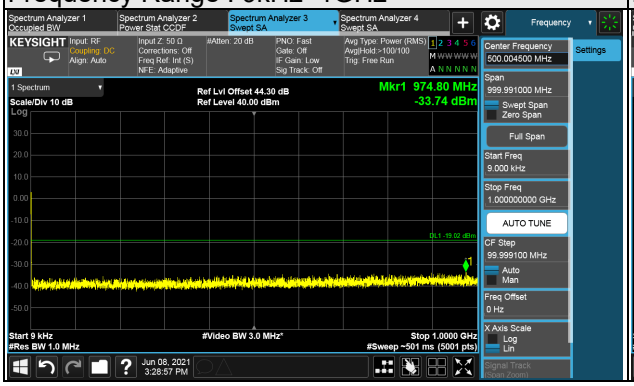
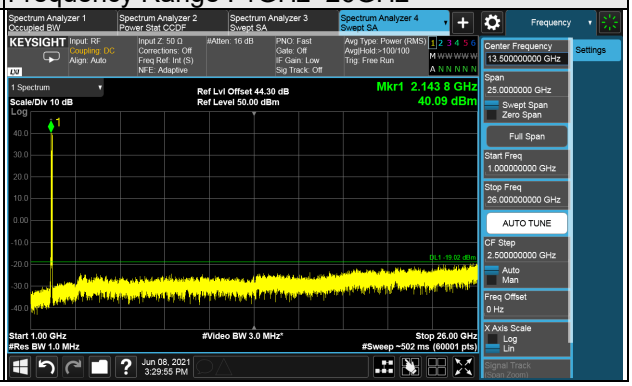


Frequency Range : 1GHz~26GHz



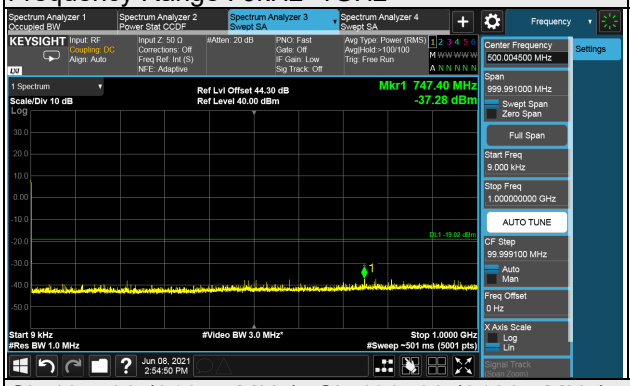
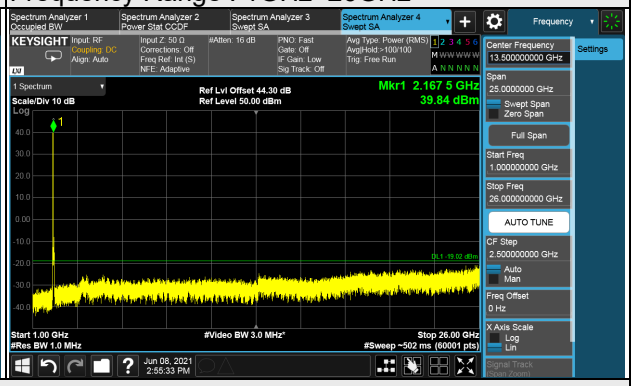
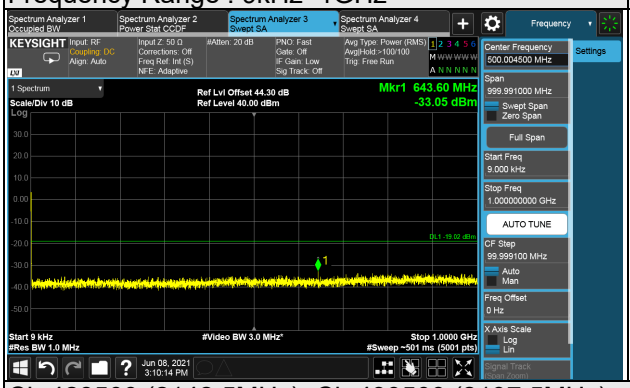
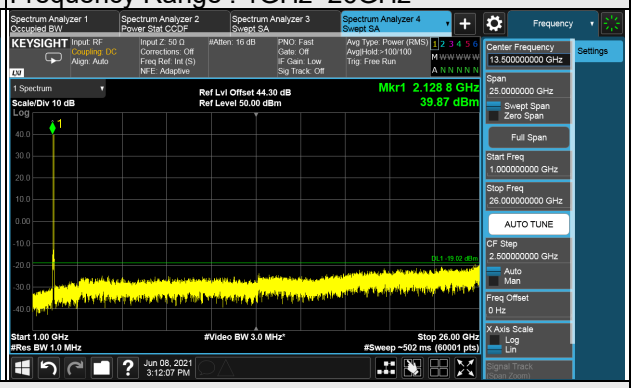
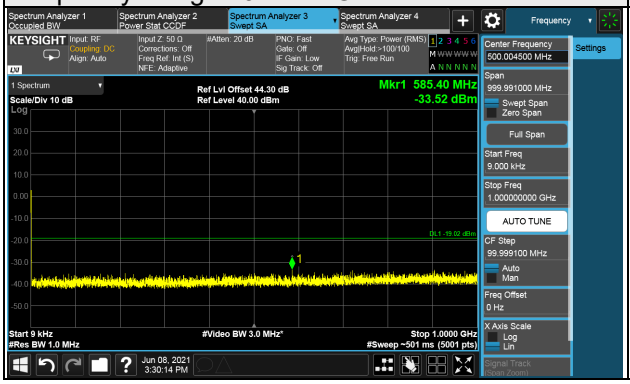
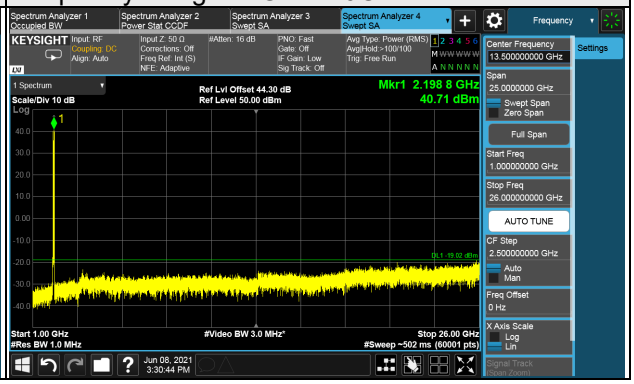
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

5MHz+5MHz-Ant. TX 1

16QAM	
Ch 422500 (2112.5MHz)+Ch 433500 (2167.5MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 425500 (2127.5MHz)+Ch 436500 (2182.5MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 428500 (2142.5MHz)+Ch 439500 (2197.5MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

5MHz+5MHz-Ant. TX 2

16QAM	
Ch 422500 (2112.5MHz)+Ch 433500 (2167.5MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 425500 (2127.5MHz)+Ch 436500 (2182.5MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	
Ch 428500 (2142.5MHz)+Ch 439500 (2197.5MHz)	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~26GHz
	

Note: The signal at 9 kHz is IF signal from spectrum analyzer.