

20+20MHz Channel Bandwidth

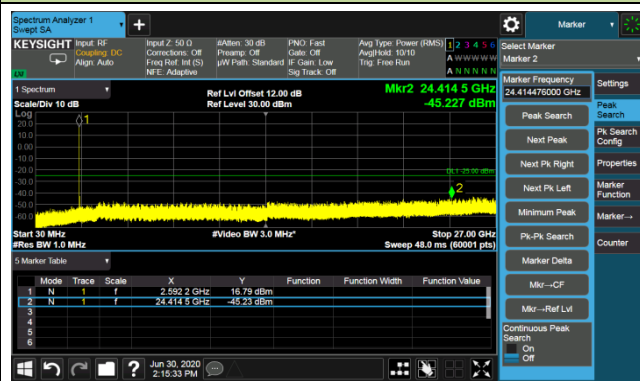
Lowest Channel



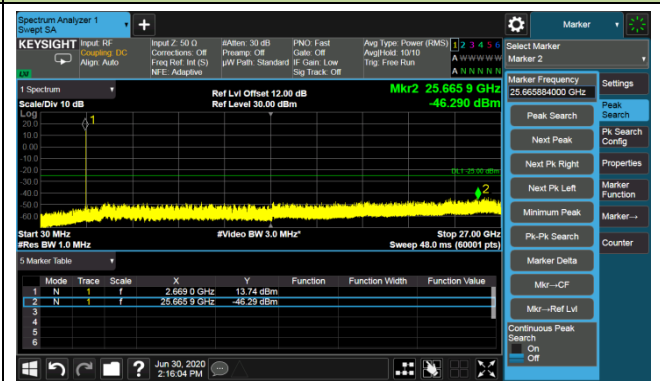
Middle Channel/1RB@0 and 1RB@99



Middle Channel/1RB@99 and 1RB@0

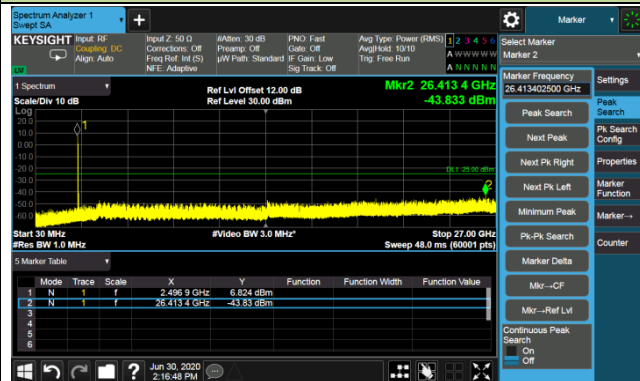


Highest Channel

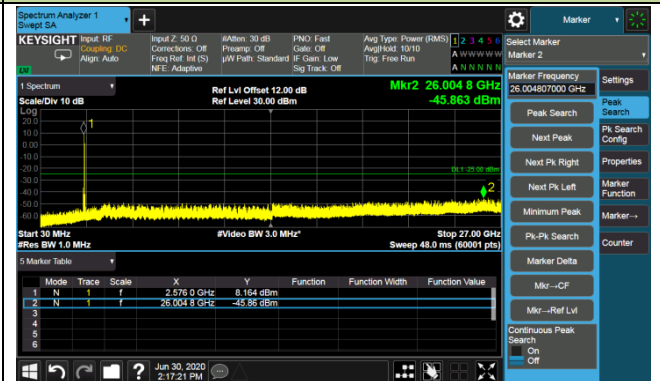


20+15MHz Channel Bandwidth

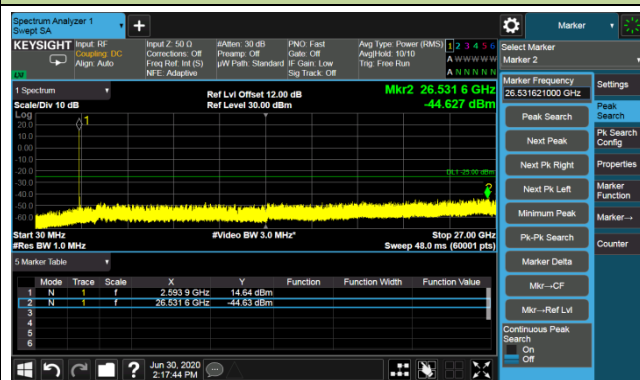
Lowest Channel



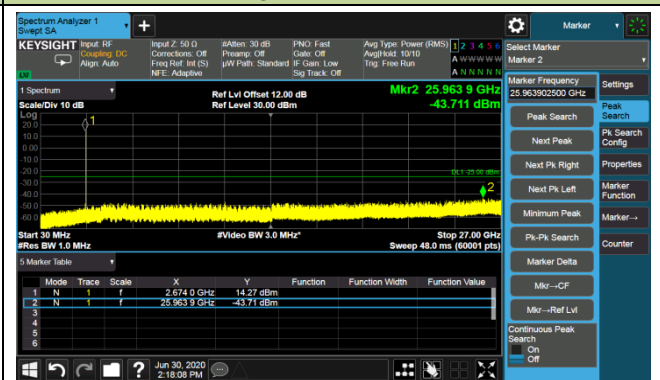
Middle Channel/1RB@0 and 1RB@99



Middle Channel/ 1RB@99 and 1RB@0



Highest Channel

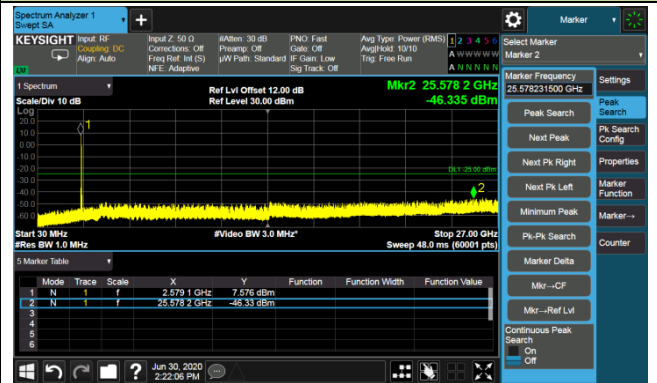


20+10MHz Channel Bandwidth

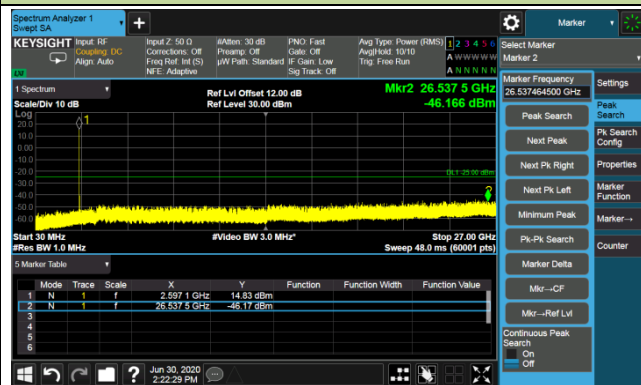
Lowest Channel



Middle Channel/1RB@0 and 1RB@49



Middle Channel/1RB@99 and 1RB@0

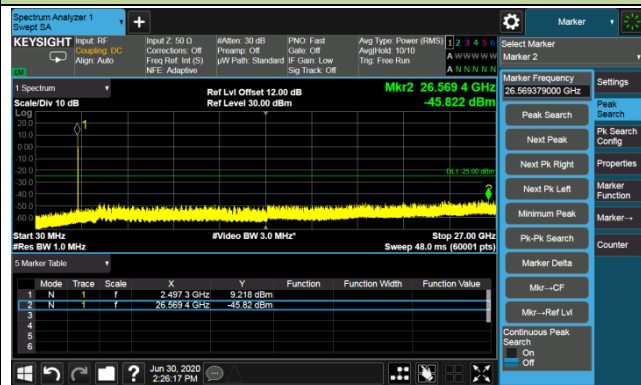


Highest Channel

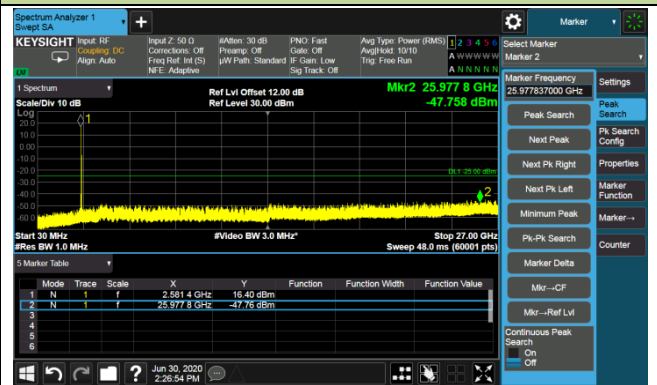


20+5MHz Channel Bandwidth

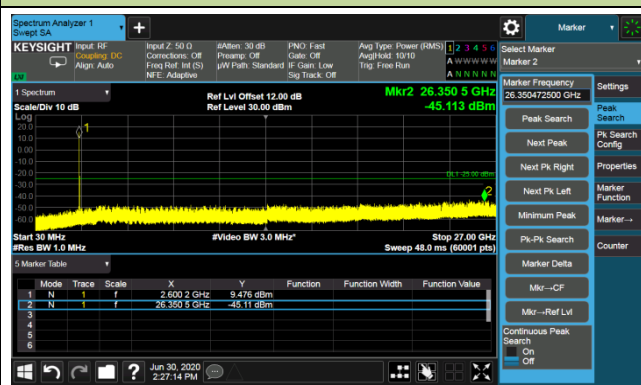
Lowest Channel



Middle Channel/1RB@0 and 1RB@24



Middle Channel/1RB@99 and 1RB@0

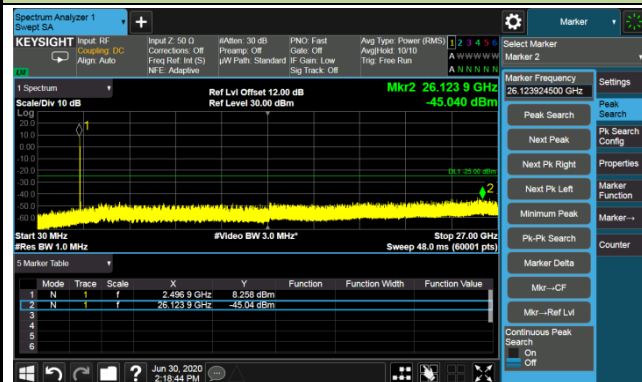


Highest Channel



15+20MHz Channel Bandwidth

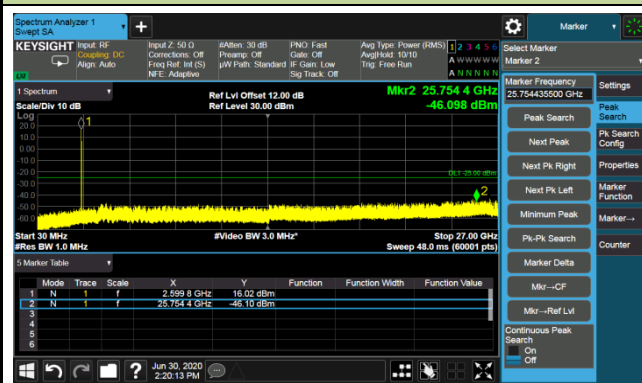
Lowest Channel



Middle Channel/1RB@0 and 1RB@99



Middle Channel/1RB@74 and 1RB@0

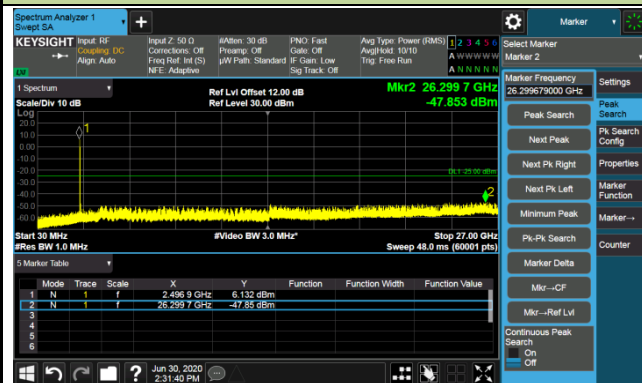


Highest Channel



15+15MHz Channel Bandwidth

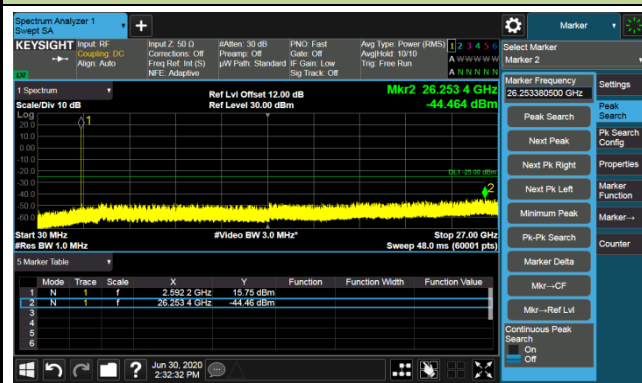
Lowest Channel



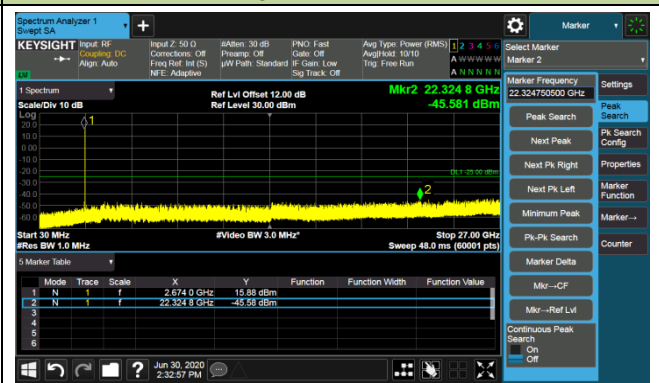
Middle Channel/1RB@0 and 1RB@74



Middle Channel/1RB@74 and 1RB@0



Highest Channel



15+10MHz Channel Bandwidth

Lowest Channel



Middle Channel/1RB@0 and 1RB@49



Middle Channel/1RB@74 and 1RB@0

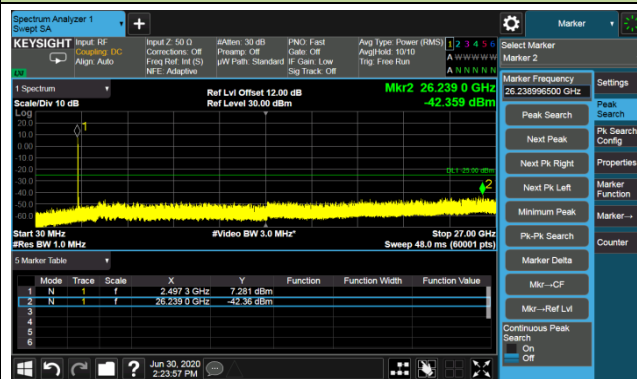


Highest Channel



10+20MHz Channel Bandwidth

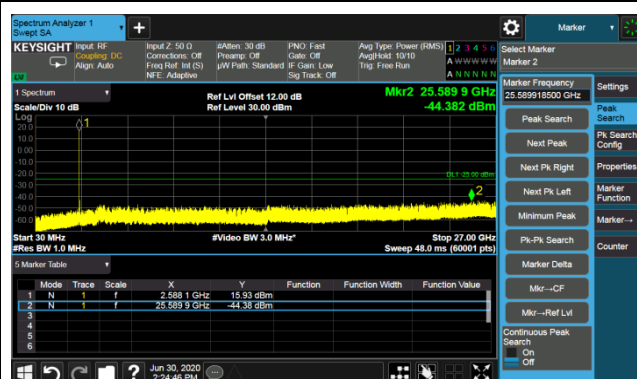
Lowest Channel



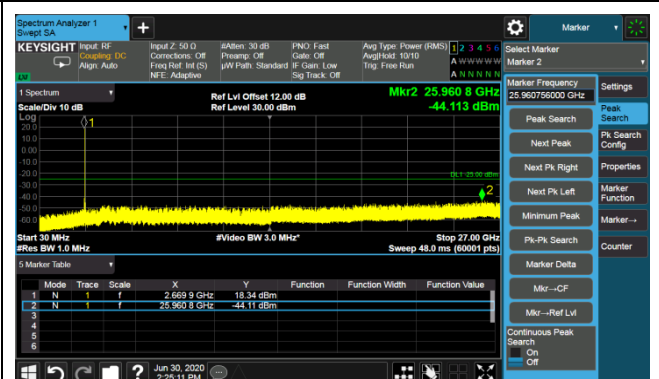
Middle Channel/1RB@49 and 1RB@99



Middle Channel/1RB@49 and 1RB@0

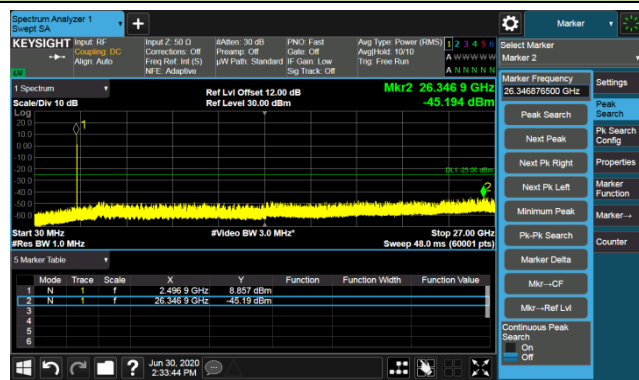


Highest Channel



10+15MHz Channel Bandwidth

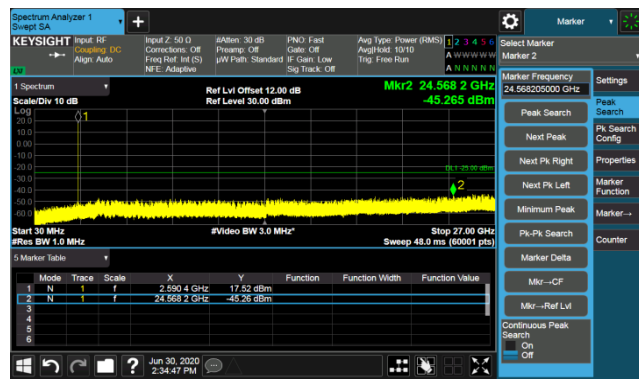
Lowest Channel



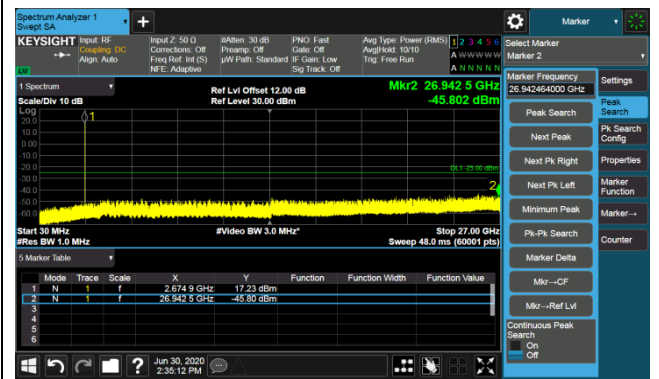
Middle Channel/1RB@0 and 1RB@74



Middle Channel/1RB@49 and 1RB@0

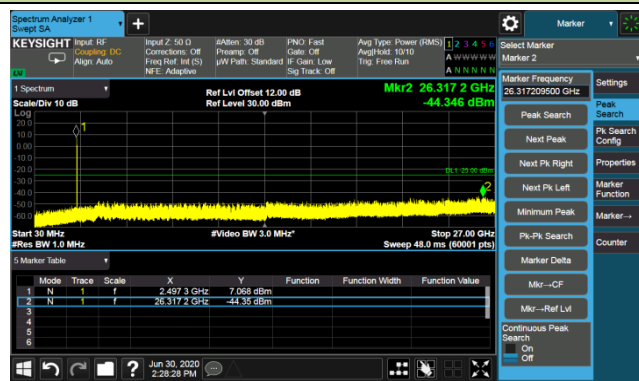


Highest Channel



5+20MHz Channel Bandwidth

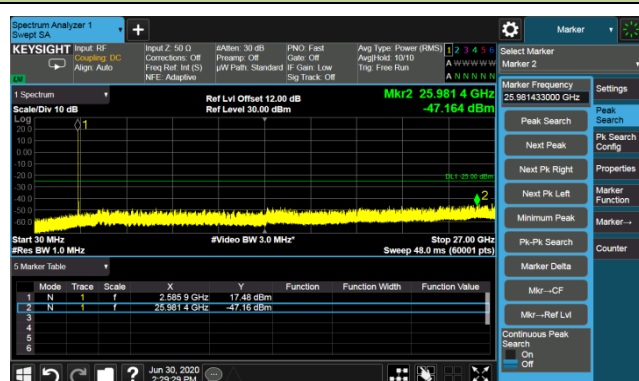
Lowest Channel



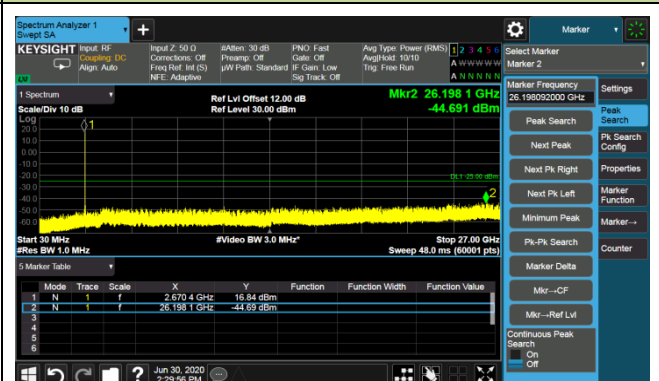
Middle Channel/1RB@0 and 1RB@99



Middle Channel/1RB@24 and 1RB@0



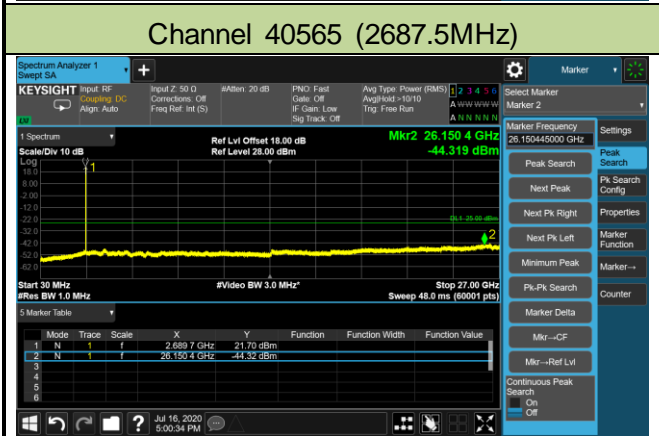
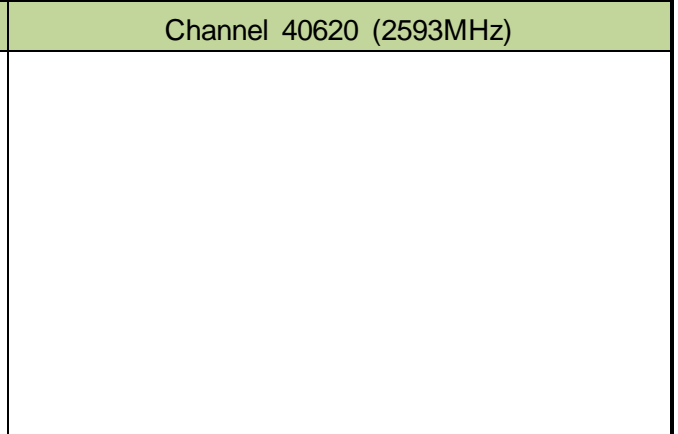
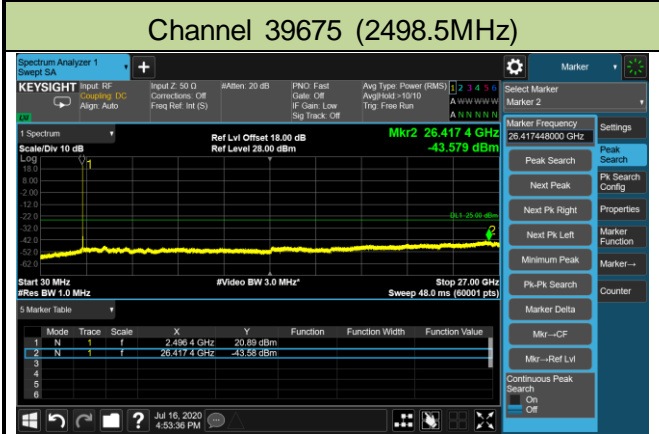
Highest Channel



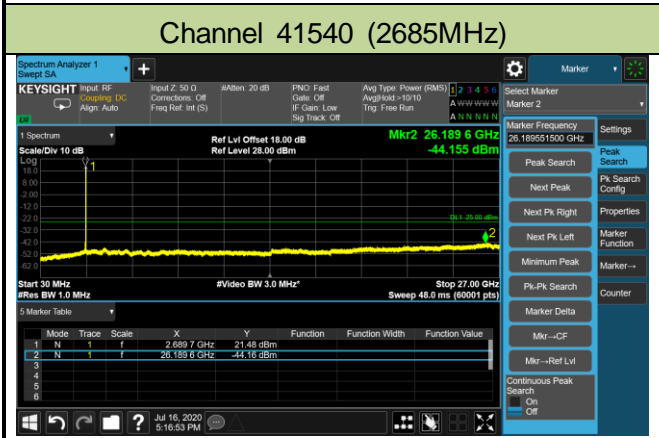
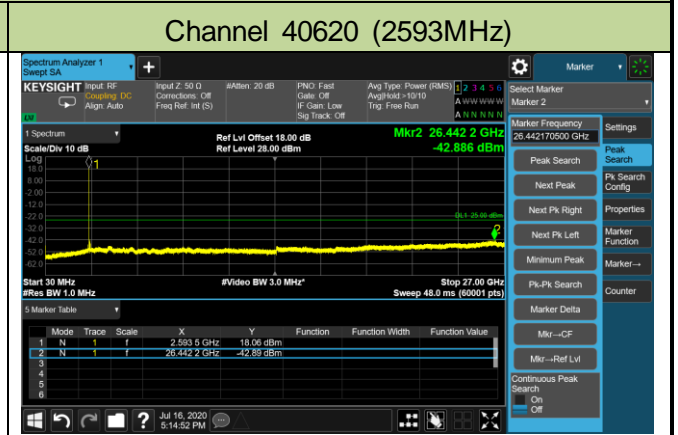
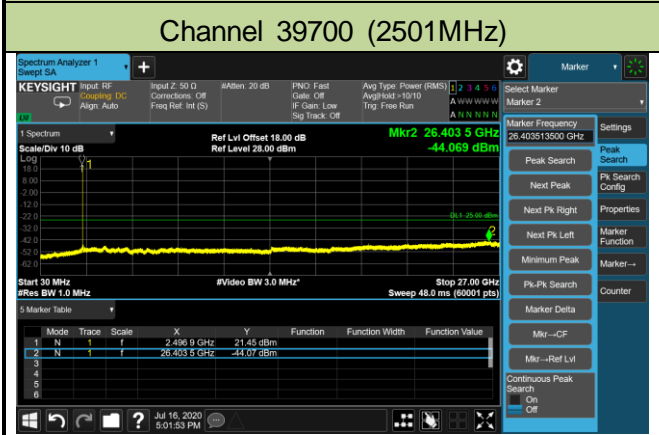
Product	LTE-A Cat 12 M.2 Module	Test Engineer	Candy Luo
Test Date	2020/06/16	Test Site	SR6
Test Band	Band 41 For HPUE	Test Result	Pass

Channel	Frequency (MHz)	Channel Bandwidth (MHz)	Frequency Range (MHz)	Max Spurious Emissions (dBm)	Limit (dBm)	Result
39675	2498.50	5	30 ~ 27000	-43.58	≤ -25.00	Pass
40620	2593.00	5	30 ~ 27000	-43.47	≤ -25.00	Pass
40565	2687.50	5	30 ~ 27000	-44.32	≤ -25.00	Pass
39700	2501.00	10	30 ~ 27000	-44.07	≤ -25.00	Pass
40620	2593.00	10	30 ~ 27000	-42.89	≤ -25.00	Pass
41540	2685.00	10	30 ~ 27000	-44.16	≤ -25.00	Pass
39725	2503.50	15	30 ~ 27000	-43.46	≤ -25.00	Pass
40620	2593.00	15	30 ~ 27000	-43.68	≤ -25.00	Pass
41515	2682.50	15	30 ~ 27000	-43.17	≤ -25.00	Pass
39750	2506.00	20	30 ~ 27000	-44.84	≤ -25.00	Pass
40620	2593.00	20	30 ~ 27000	-44.08	≤ -25.00	Pass
41490	2680.00	20	30 ~ 27000	-43.91	≤ -25.00	Pass

5MHz Channel Bandwidth



10MHz Channel Bandwidth



15MHz Channel Bandwidth

Channel 39725 (2503.5MHz)



Channel 40620 (2593MHz)

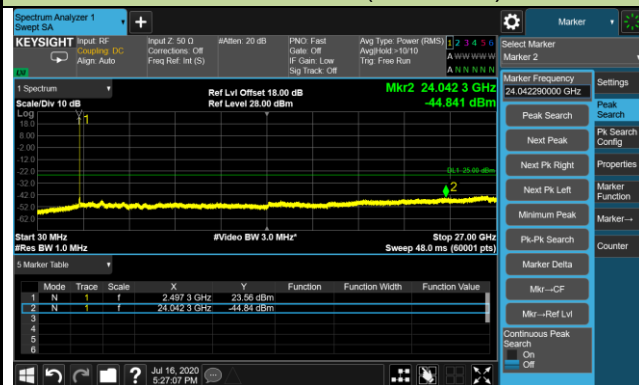


Channel 41515 (2682.5MHz)

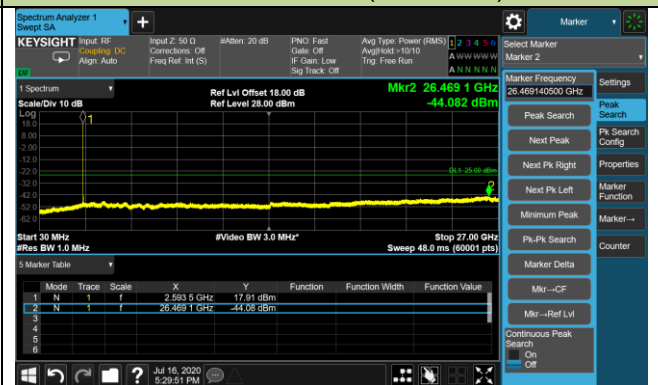


20MHz Channel Bandwidth

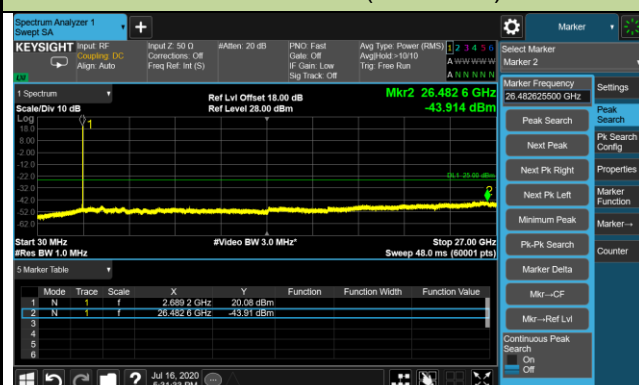
Channel 39750 (2506MHz)



Channel 40620 (2593MHz)



Channel 41490 (2680MHz)



5.8. Radiated Spurious Emissions Measurements

5.8.1. Test Limit

Out of band emissions: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

For Band 7, 38/41, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm.

For LTE Band 13, For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW (-50dBm) EIRP for discrete emissions of less than 700 Hz bandwidth.

E (dB μ V/m) = EIRP (dBm) - 20 log D + 104.8; where D is the measurement distance in meters. The emission limit equal to 82.3dB μ V/m or 70.3dB μ V/m.

5.8.2. Test Procedure Used

ANSI C63.26-2015 - Section 5.2.7 & 5.5

5.8.3. Test Setting

1. RBW = 1MHz
2. VBW \geq 3*RBW
3. Sweep time \geq 10 \times (number of points in sweep) \times (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize