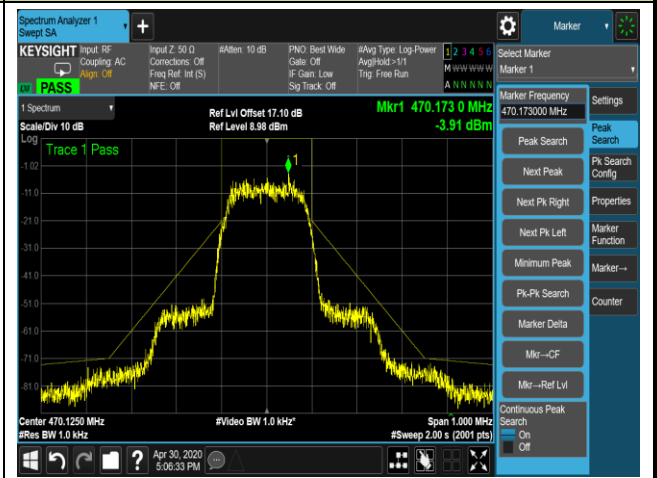


Necessary Bandwidth - STD Mode, 10mW, 470.125MHz

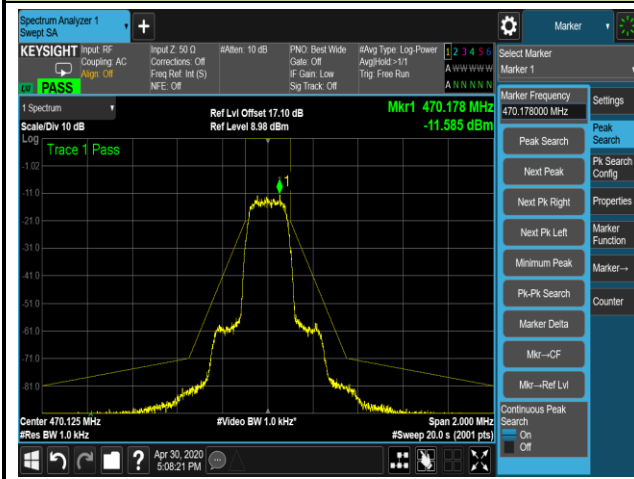
Step 1



Step 2



Step 3

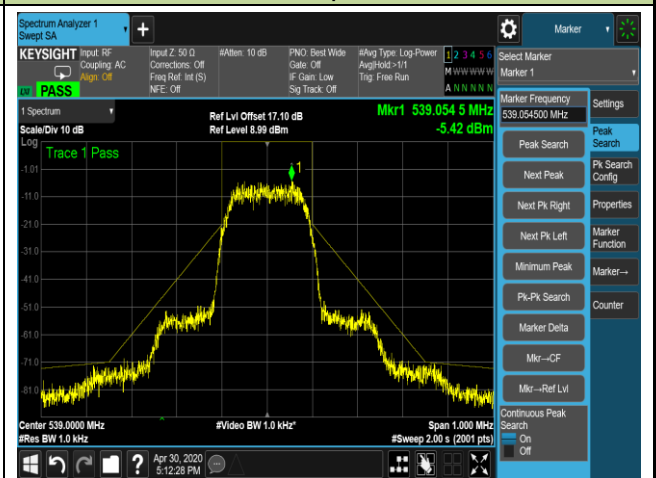


Necessary Bandwidth - STD Mode, 10mW, 539.000MHz

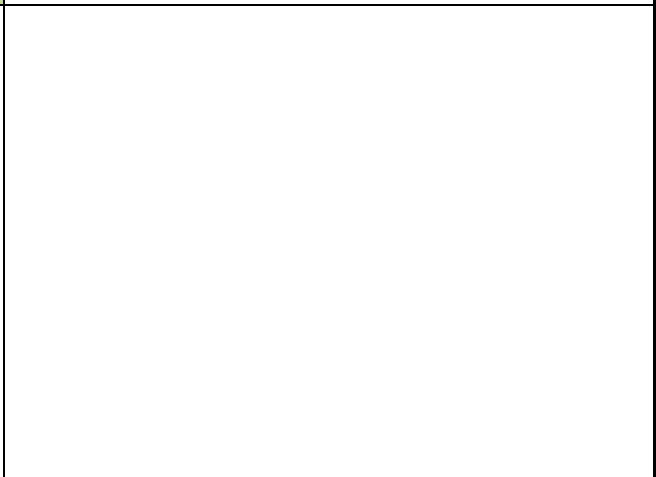
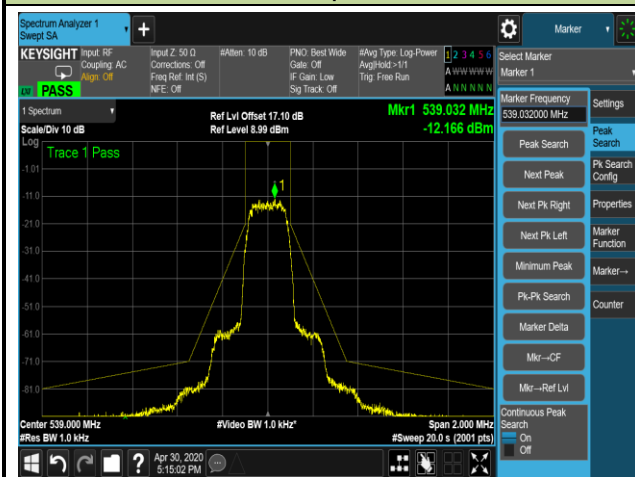
Step 1



Step 2



Step 3

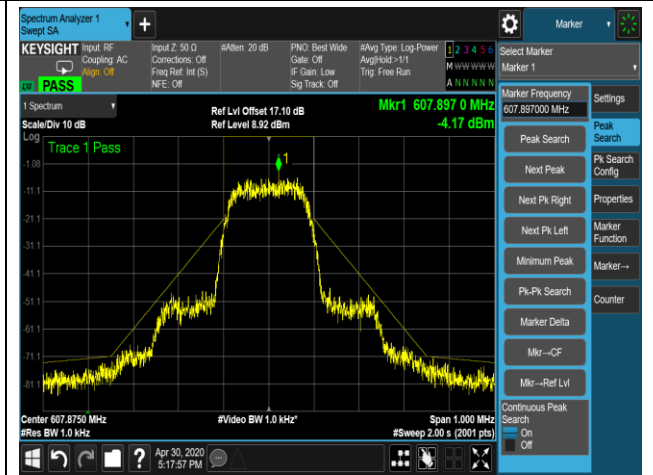


Necessary Bandwidth - STD Mode, 10mW, 607.875MHz

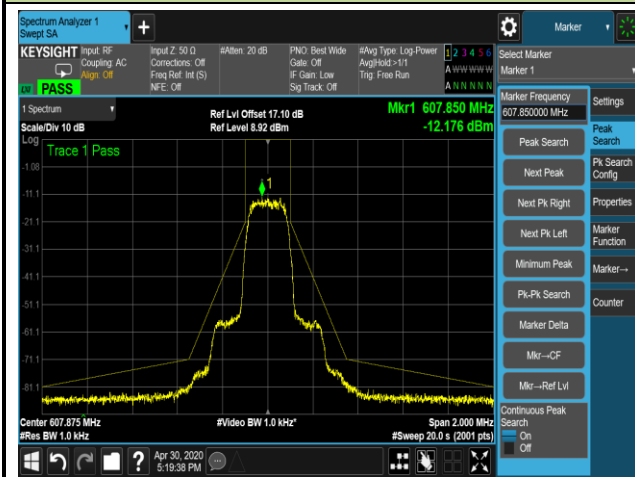
Step 1



Step 2



Step 3

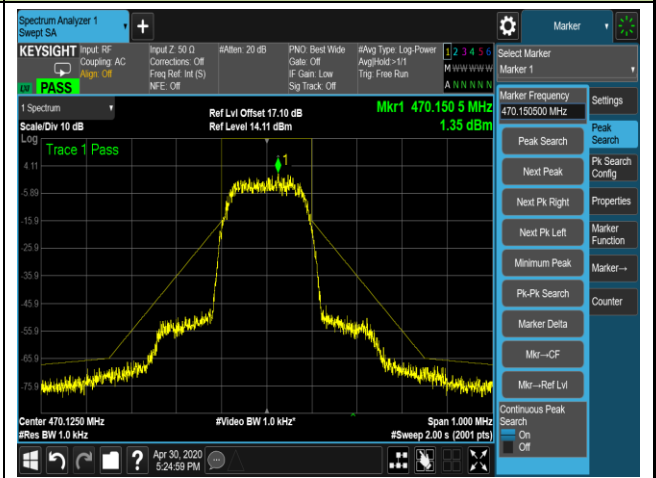


Necessary Bandwidth - STD Mode, 35mW, 470.125MHz

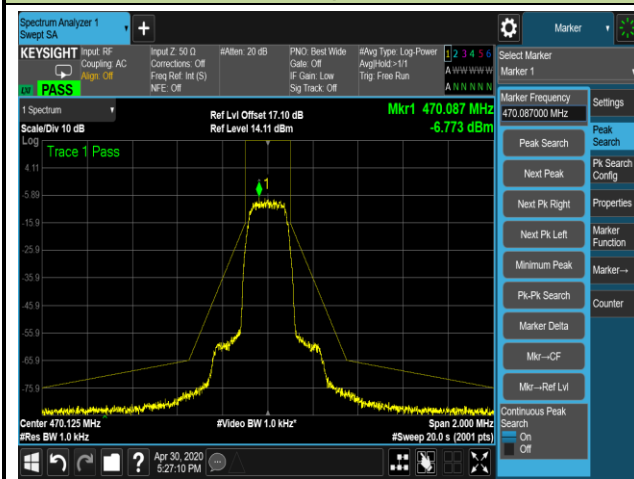
Step 1



Step 2

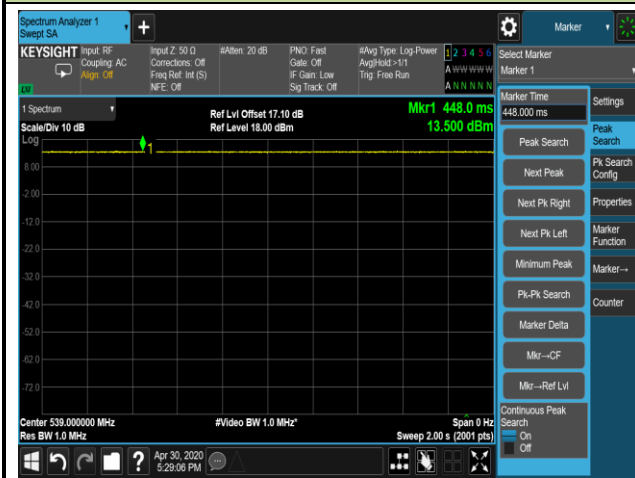


Step 3

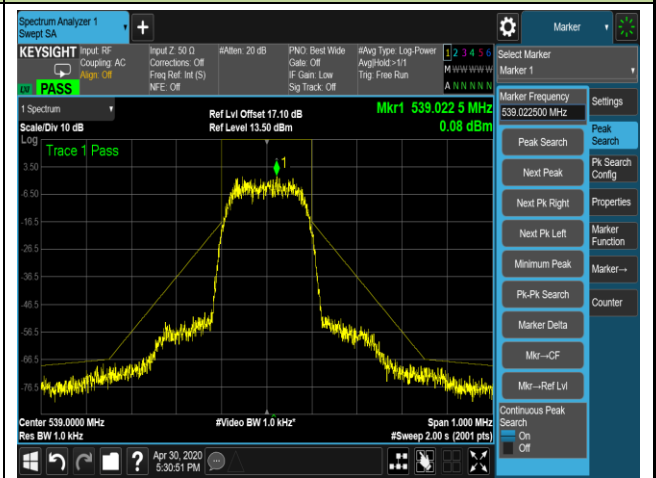


Necessary Bandwidth - STD Mode, 35mW, 539.000MHz

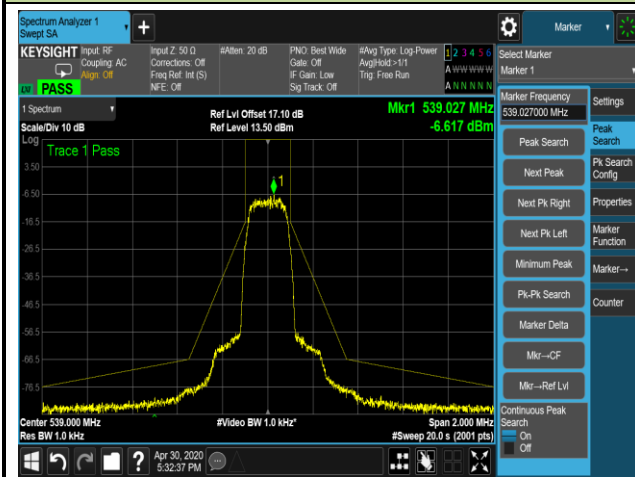
Step 1



Step 2

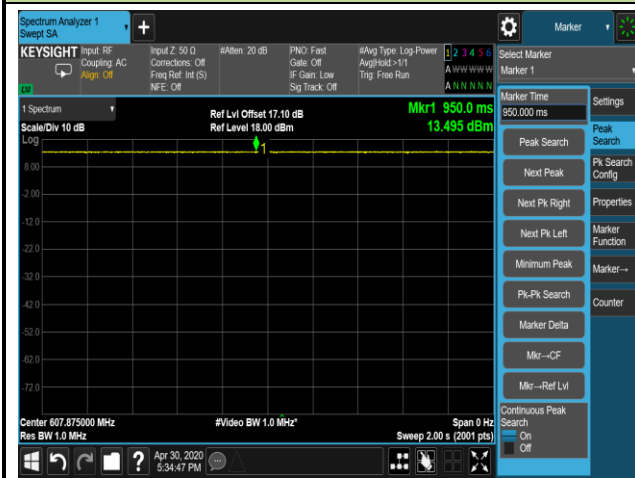


Step 3

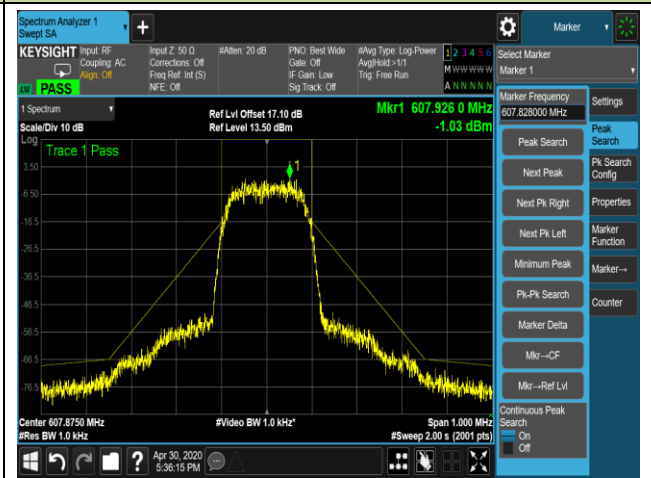


Necessary Bandwidth - STD Mode, 35mW, 607.875MHz

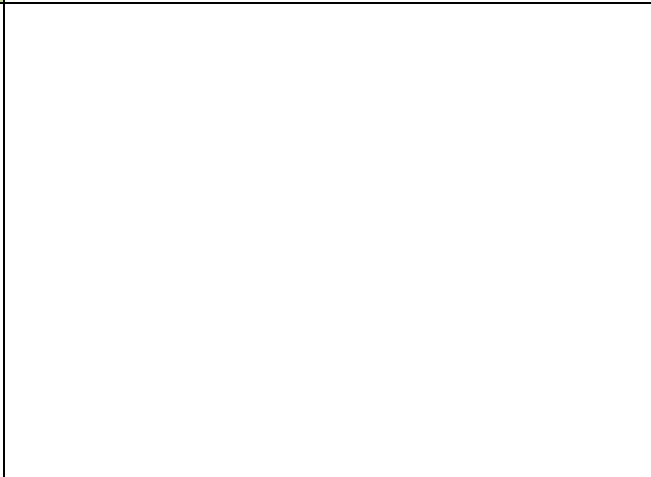
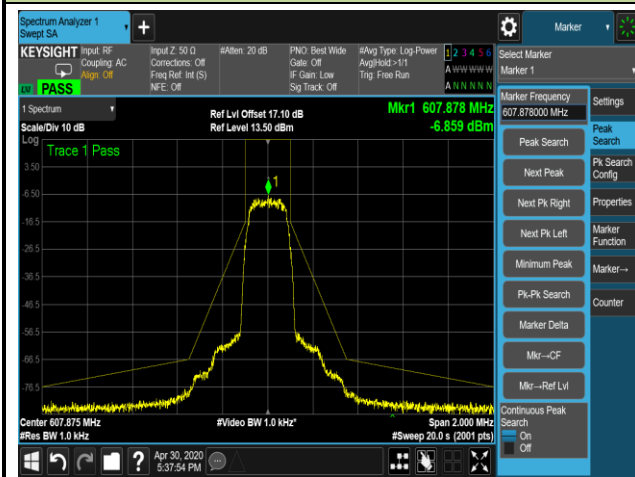
Step 1



Step 2



Step 3

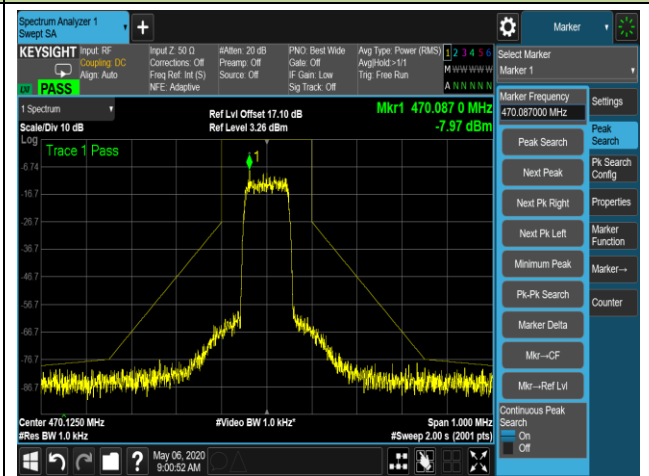


Necessary Bandwidth - HD Mode, 2mW, 470.125MHz

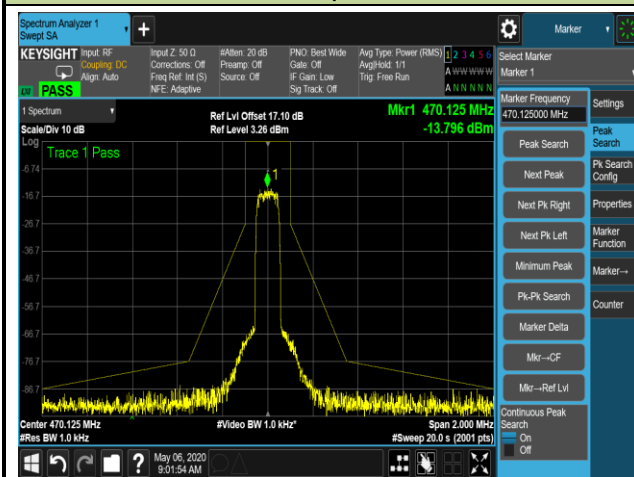
Step 1

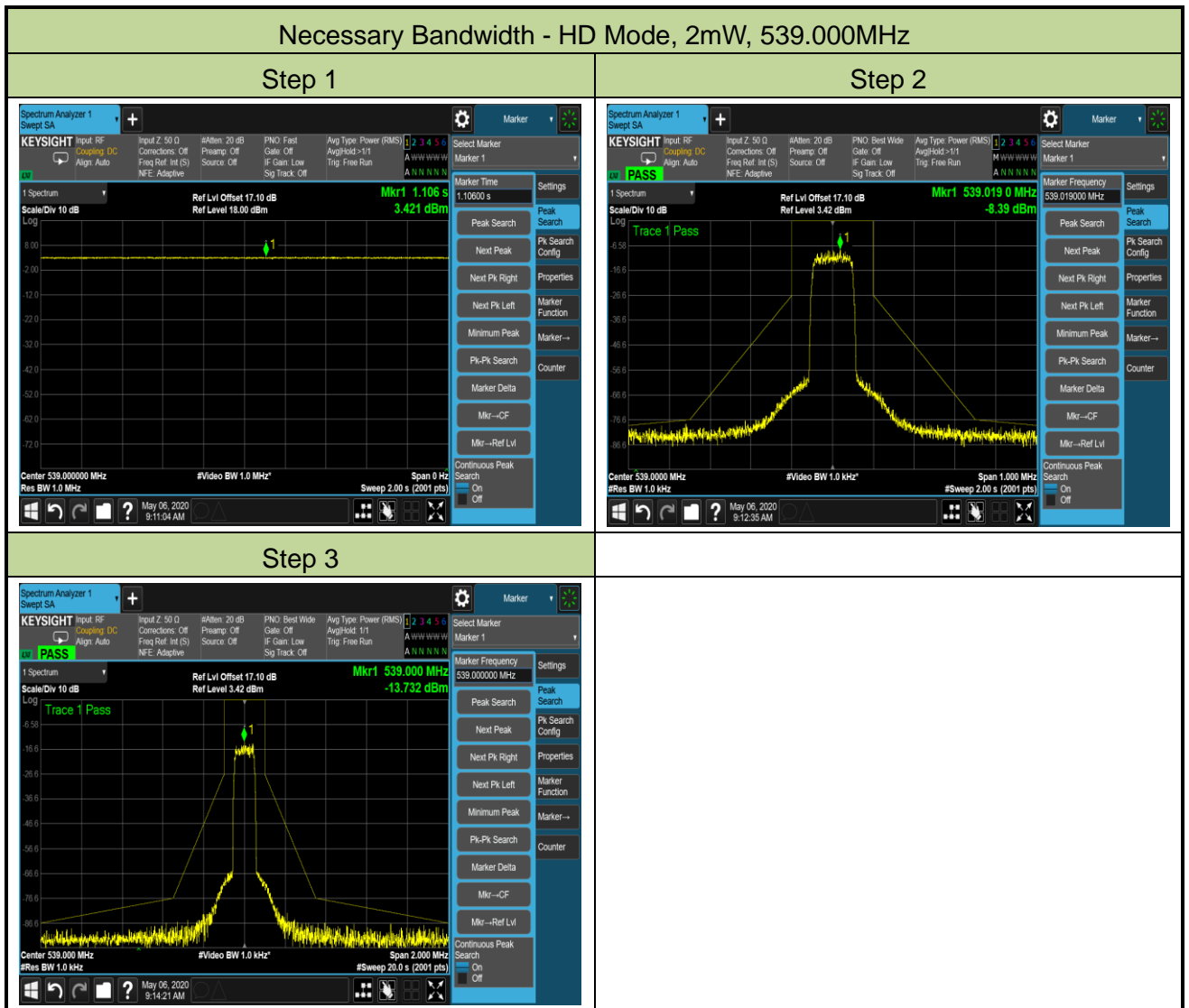


Step 2



Step 3



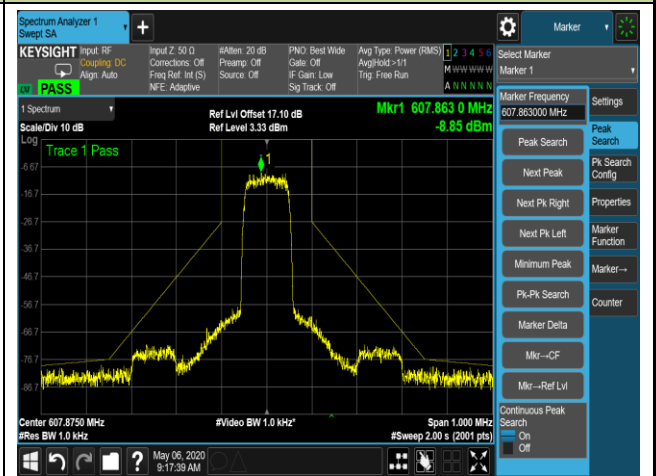


Necessary Bandwidth - HD Mode, 2mW, 607.875MHz

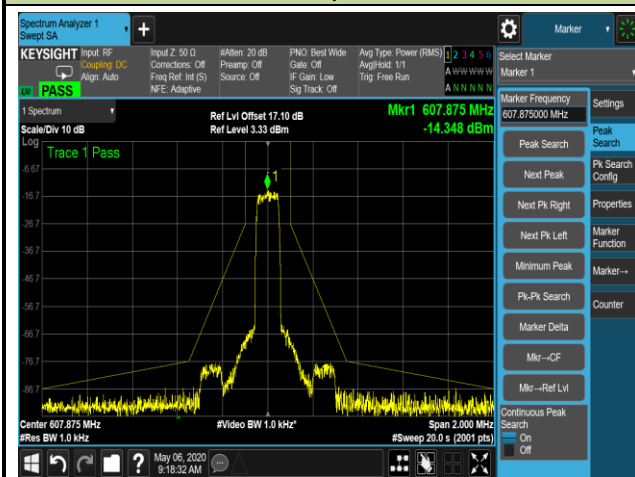
Step 1



Step 2



Step 3



6.7. Radiated Spurious Emissions Measurement

6.7.1. Test Limit

According to FCC Part 74.861(e)(7), beyond one megahertz below and above the carrier frequency, emissions shall comply with the limits specified in section 8.4 of ETSI EN 300 422-1 v1.4.2.

State	Frequency Range		
	47MHz to 74MHz, 87.5MHz to 137MHz 174MHz to 230MHz, 470MHz to 862MHz	Other Frequencies below 1000MHz	Frequencies above 1000MHz
Operation	4nW	250nW	1uW
Standby	2nW	2nW	20nW

6.7.2. Test Procedure Used

ETSI EN 300 422-1 V1.4.2 clause 8.4.2.

6.7.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
25 ~ 30 MHz	9 kHz
30 ~ 1000 MHz	100 kHz
1000 ~ 6000 MHz	1 MHz

Emissions shall be investigated up to the 10th harmonic of the fundamental.

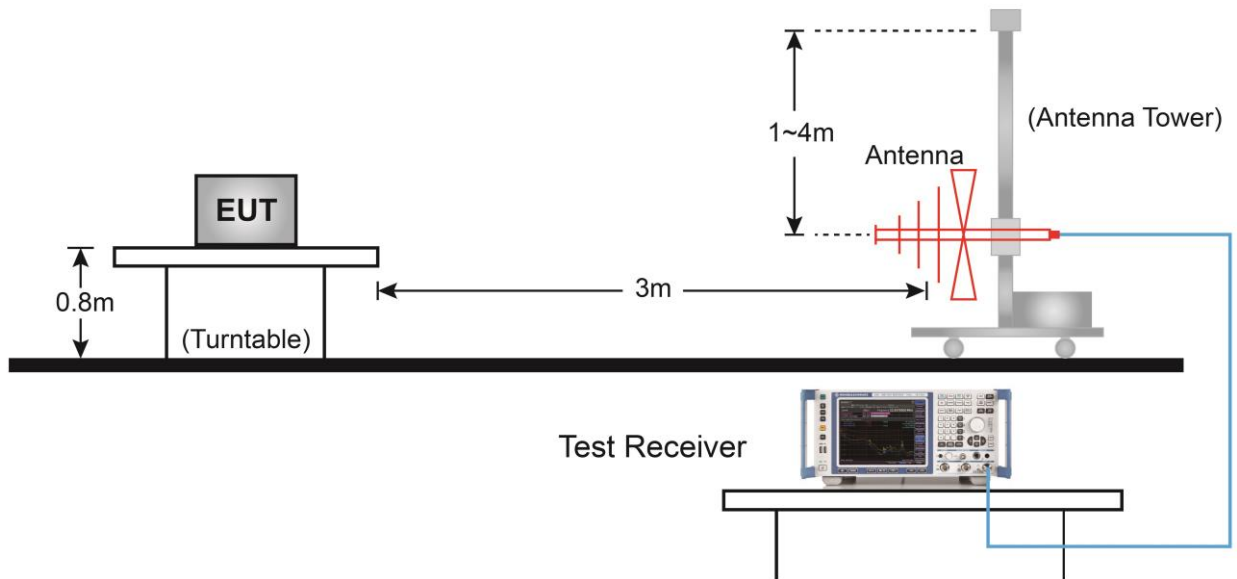
Compliance with the emission limits shall be demonstrated using an RMS Average detector.

All significant broadband and narrowband signals found in the preliminary sweeps were measured using a peak detector at a test distance of 3 meters.

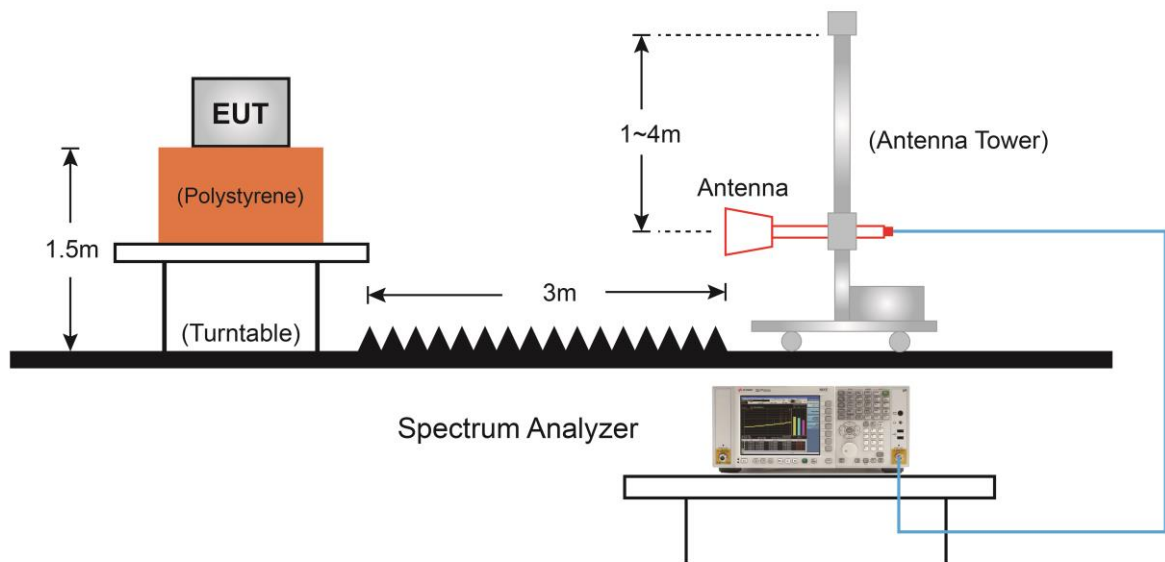
At each frequency at which a component is detected, the sample shall be rotated to obtain maximum response and the effective radiated power of that component determined by a substitution measurement.

6.7.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.7.5. Test Result

Test Site	AC1	Temperature	25°C
Test Engineer	Buter Shi	Relative Humidity	54%
Test Mode	STD Mode - 35mW	Test Date	2020/05/16

Test Channel (MHz)	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
470.125	1410.4	H	-64.5	0.5	7.1	-57.9	-30.0	-27.9
	1880.5	H	-68.7	0.6	10.1	-59.1	-30.0	-29.1
	3761.0	H	-67.5	0.8	12.3	-56.0	-30.0	-26.0
	1410.4	V	-64.2	0.5	7.1	-57.6	-30.0	-27.6
	1880.5	V	-69.1	0.6	10.1	-59.5	-30.0	-29.5
	3761.0	V	-67.0	0.8	12.3	-55.5	-30.0	-25.5
539.000	2156.0	H	-66.2	0.6	9.3	-57.5	-30.0	-27.5
	2695.0	H	-67.0	0.7	11.1	-56.6	-30.0	-26.6
	4312.0	H	-67.9	0.8	12.7	-56.0	-30.0	-26.0
	2156.0	V	-66.5	0.6	9.3	-57.8	-30.0	-27.8
	2695.0	V	-67.3	0.7	11.1	-56.9	-30.0	-26.9
	4312.0	V	-68.4	0.8	12.7	-56.5	-30.0	-26.5
607.875	1823.6	H	-67.8	0.6	9.9	-58.4	-30.0	-28.4
	2431.5	H	-66.3	0.6	10.4	-56.5	-30.0	-26.5
	4863.0	H	-66.6	0.9	12.7	-54.8	-30.0	-24.8
	1823.6	V	-68.7	0.6	9.9	-59.3	-30.0	-29.3
	2431.5	V	-67.4	0.6	10.4	-57.6	-30.0	-27.6
	4863.0	V	-66.1	0.9	12.7	-54.3	-30.0	-24.3

Note 1: $EIRP (dBm) = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$

Note 2: $Margin (dB) = EIRP (dBm) - Limit (dBm)$

Note 3: All data in this table is based on peak detection. Due to peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak and RMS detector. Thus, the data measured using the peak detector of a spectrum analyzer or EMI receiver will represent the worst-case results.

Test Site	AC1	Temperature	25°C
Test Engineer	Buter Shi	Relative Humidity	54%
Test Mode	HD Mode - 2mW	Test Date	2020/05/16

Test Channel (MHz)	Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
470.125	1410.4	H	-64.6	0.5	7.1	-58.0	-30.0	-28.0
	1880.5	H	-69.2	0.6	10.1	-59.6	-30.0	-29.6
	3761.0	H	-67.0	0.8	12.3	-55.5	-30.0	-25.5
	1410.4	V	-64.0	0.5	7.1	-57.4	-30.0	-27.4
	1880.5	V	-68.8	0.6	10.1	-59.2	-30.0	-29.2
	3761.0	V	-67.4	0.8	12.3	-55.9	-30.0	-25.9
539.000	2156.0	H	-65.8	0.6	9.3	-57.1	-30.0	-27.1
	2695.0	H	-67.9	0.7	11.1	-57.5	-30.0	-27.5
	4312.0	H	-67.9	0.8	12.7	-56.0	-30.0	-26.0
	2156.0	V	-66.1	0.6	9.3	-57.4	-30.0	-27.4
	2695.0	V	-66.8	0.7	11.1	-56.4	-30.0	-26.4
	4312.0	V	-67.4	0.8	12.7	-55.5	-30.0	-25.5
607.875	1823.6	H	-67.5	0.6	9.9	-58.1	-30.0	-28.1
	2431.5	H	-65.4	0.6	10.4	-55.6	-30.0	-25.6
	4863.0	H	-66.1	0.9	12.7	-54.3	-30.0	-24.3
	1823.6	V	-68.8	0.6	9.9	-59.4	-30.0	-29.4
	2431.5	V	-67.2	0.6	10.4	-57.4	-30.0	-27.4
	4863.0	V	-66.3	0.9	12.7	-54.5	-30.0	-24.5

Note 1: $EIRP (dBm) = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$

Note 2: $Margin (dB) = EIRP (dBm) - Limit (dBm)$

Note 3: All data in this table is based on peak detection. Due to peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak and RMS detector. Thus, the data measured using the peak detector of a spectrum analyzer or EMI receiver will represent the worst-case results.

7. CONCLUSION

The data collected relate only the item(s) tested and show that the unit compliance with all the requirements of Parts 74H of the FCC Rules.

The End

Appendix A – Test Setup Photograph

Refer to “ 2004RSU052-UT” file.

Appendix B – EUT Photograph

Refer to “2004RSU052-UE” file.