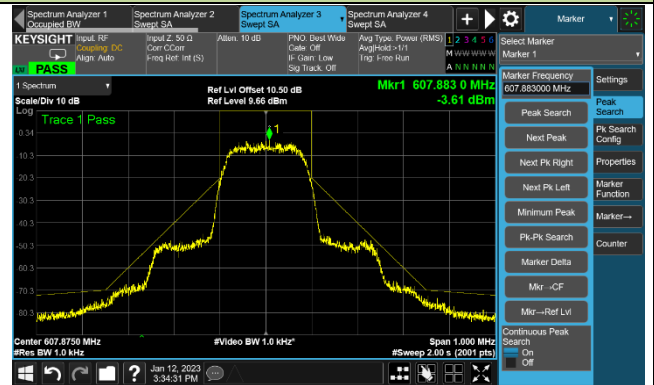


### Necessary Bandwidth - STD Mode, 10mW, 607.875MHz

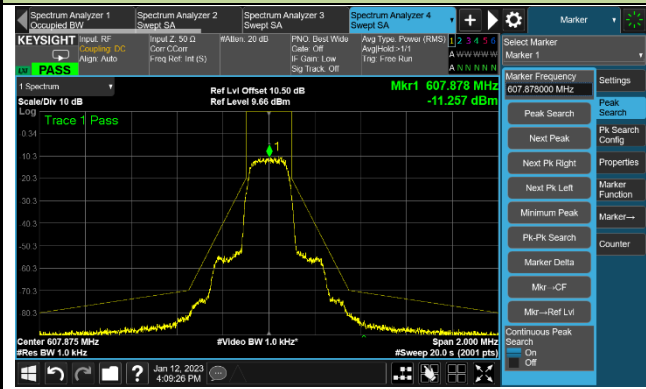
#### Step 1



#### Step 2

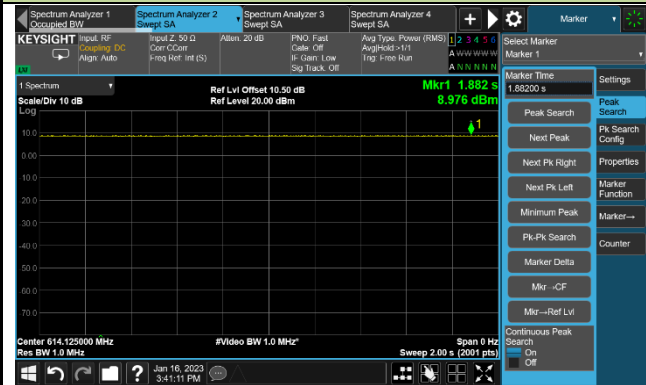


#### Step 3

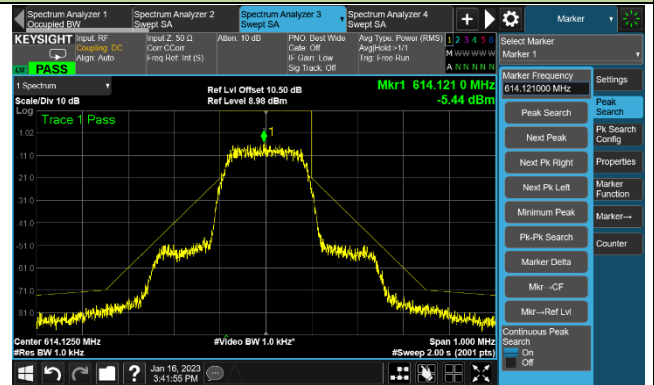


### Necessary Bandwidth - STD Mode, 10mW, 614.125MHz

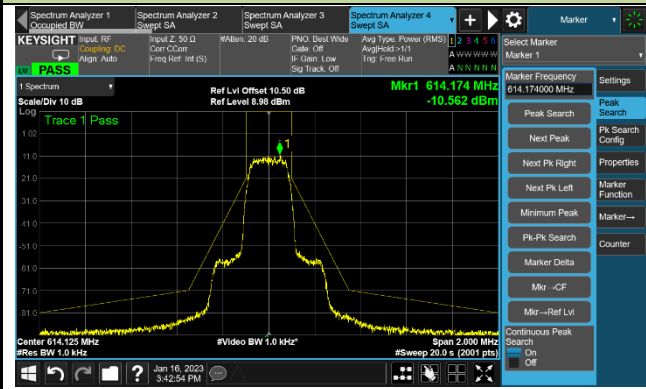
#### Step 1



#### Step 2

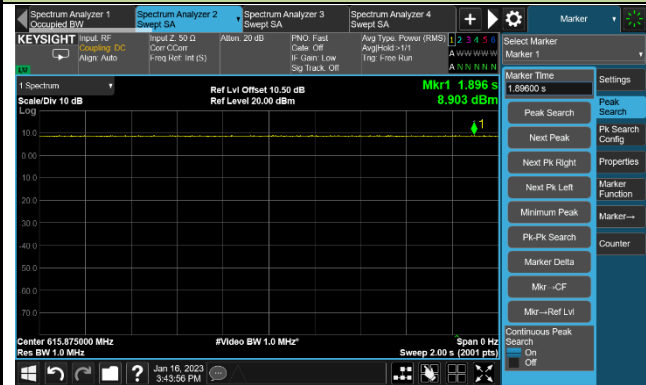


#### Step 3

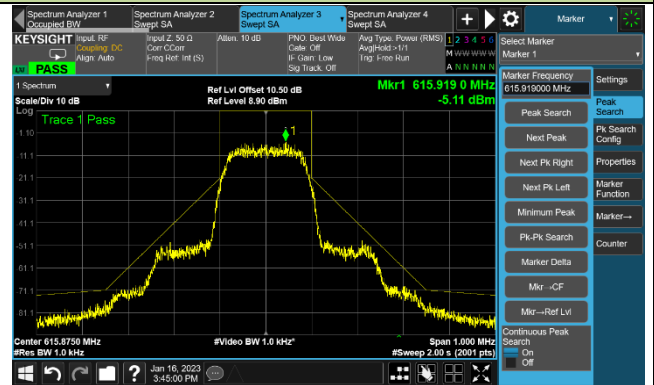


### Necessary Bandwidth - STD Mode, 10mW, 615.875MHz

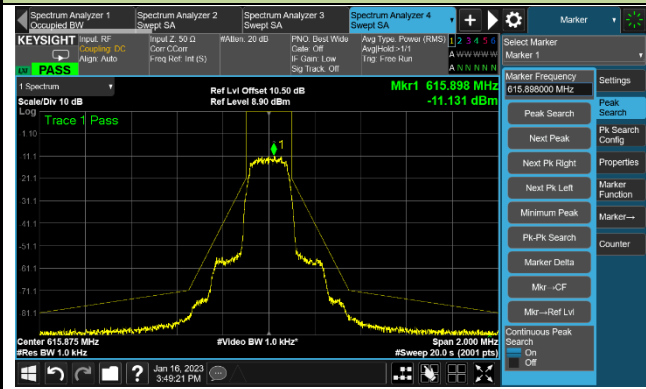
#### Step 1



#### Step 2

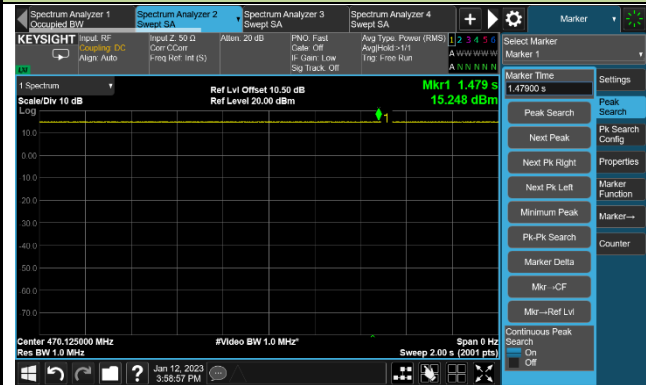


#### Step 3

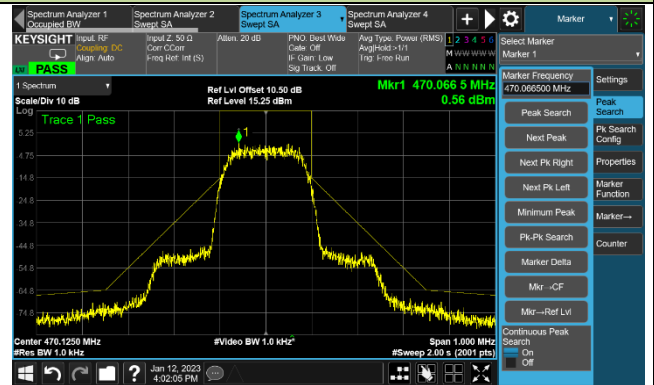


### Necessary Bandwidth - STD Mode, 35mW, 470.125MHz

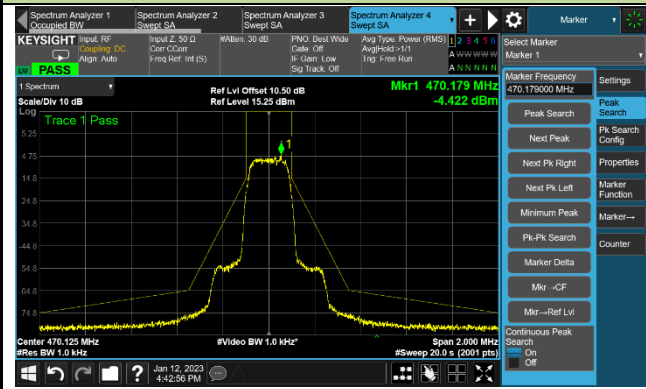
#### Step 1



#### Step 2

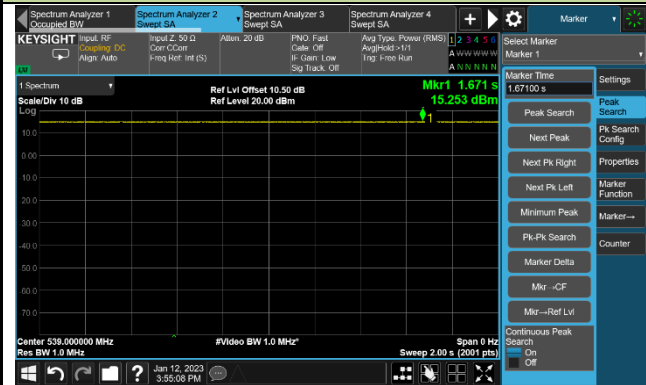


#### Step 3

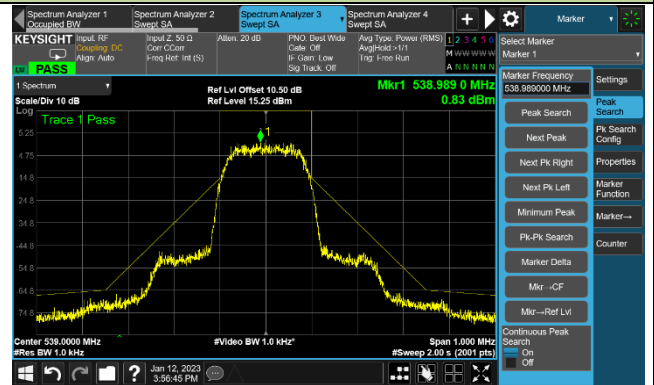


### Necessary Bandwidth - STD Mode, 35mW, 539.000MHz

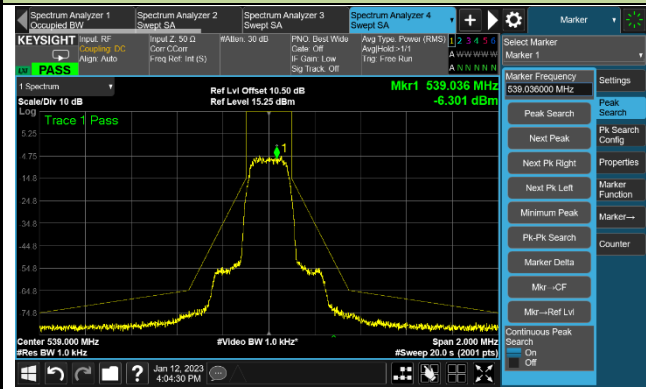
Step 1



Step 2

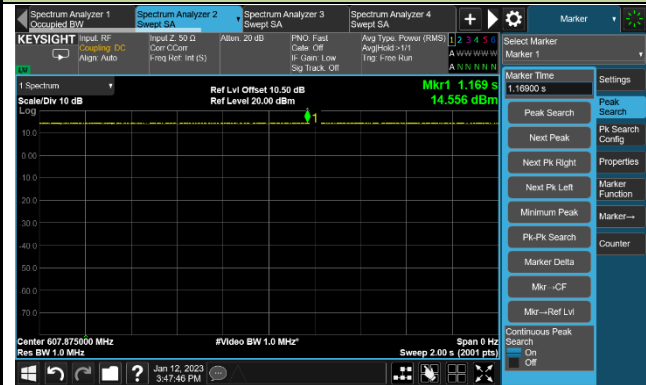


Step 3

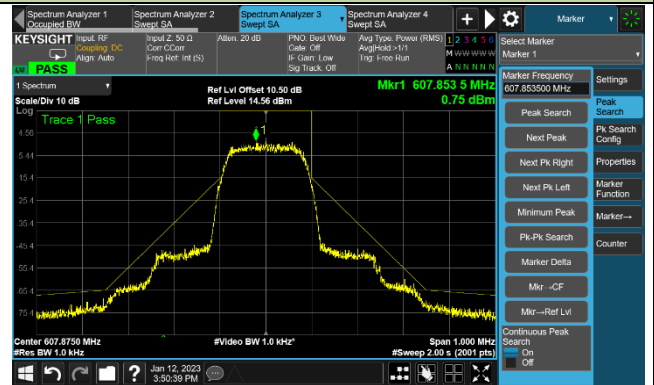


### Necessary Bandwidth - STD Mode, 35mW, 607.875MHz

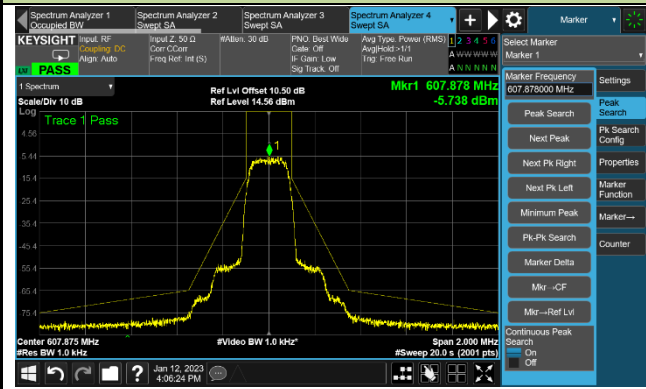
#### Step 1



#### Step 2

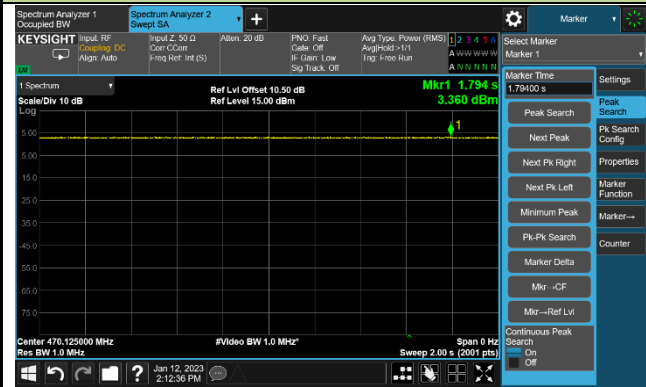


#### Step 3

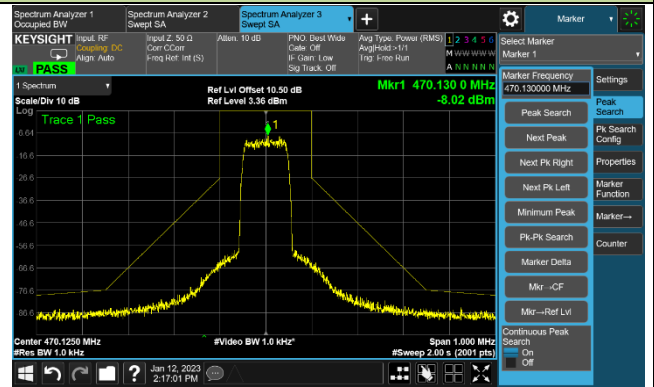


### Necessary Bandwidth - HD Mode, 2mW, 470.125MHz

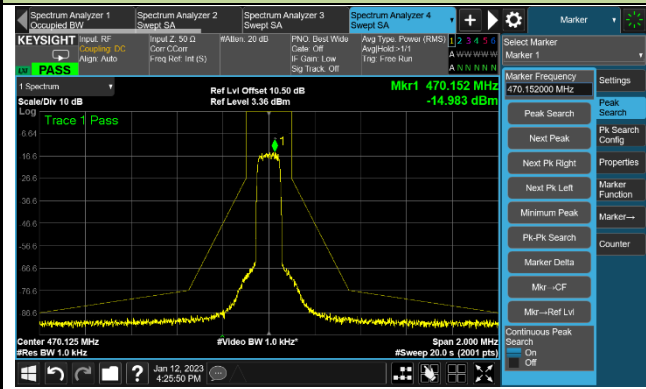
#### Step 1



#### Step 2

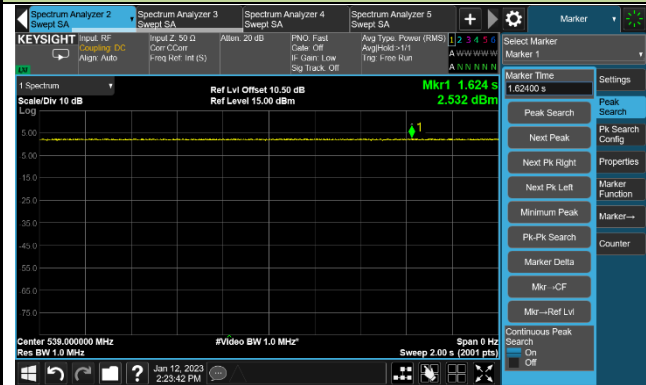


#### Step 3

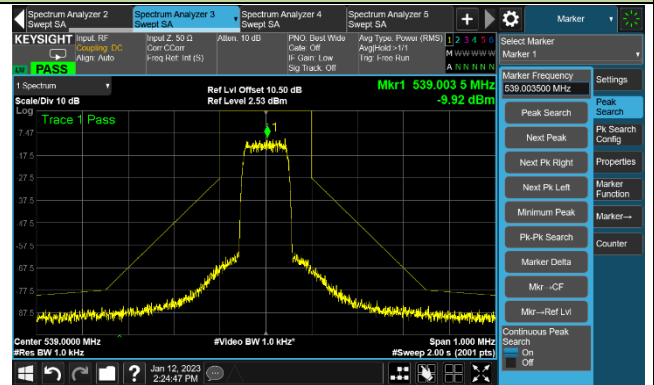


### Necessary Bandwidth - HD Mode, 2mW, 539.000MHz

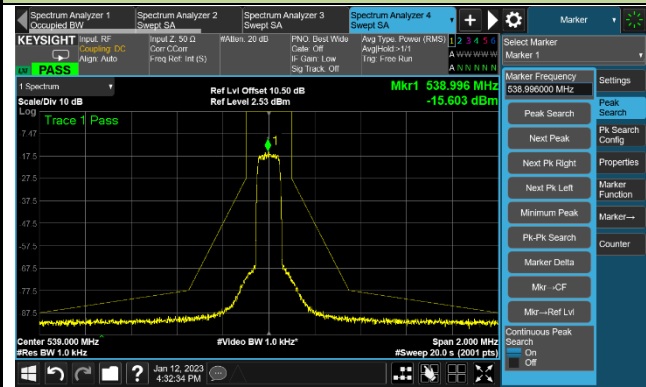
#### Step 1



#### Step 2



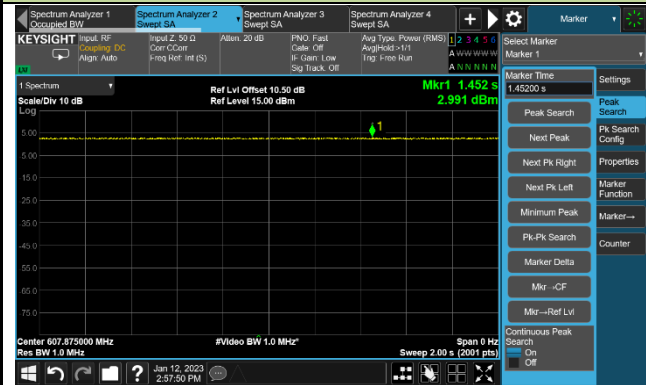
#### Step 3



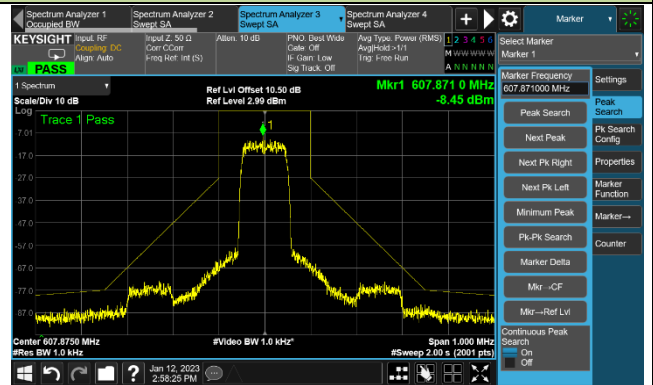


### Necessary Bandwidth - HD Mode, 2mW, 607.875MHz

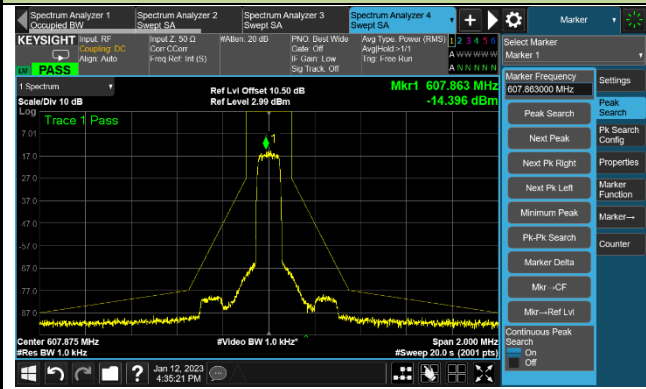
#### Step 1



#### Step 2

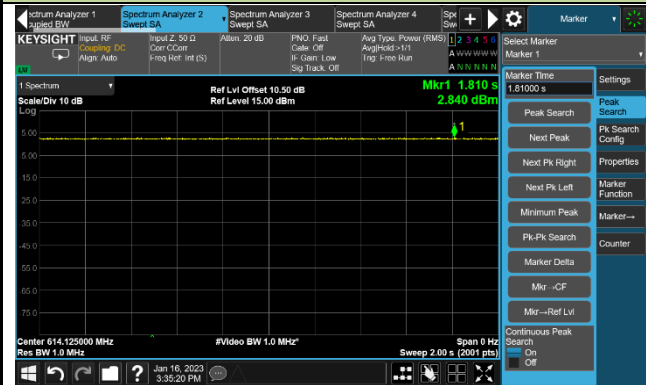


#### Step 3

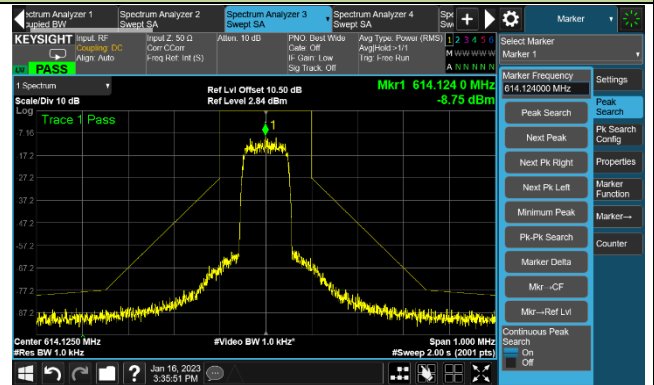


### Necessary Bandwidth - HD Mode, 2mW, 614.125MHz

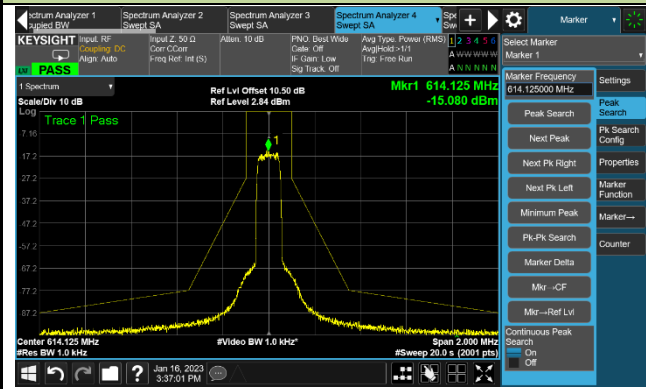
#### Step 1



#### Step 2

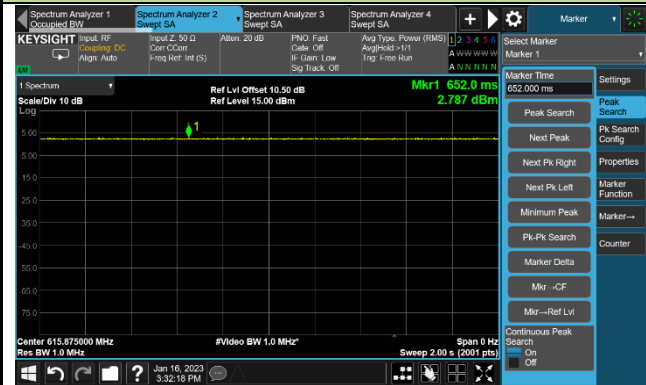


#### Step 3

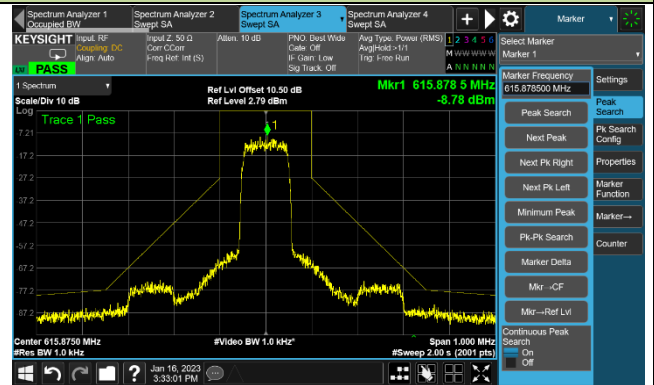


### Necessary Bandwidth - HD Mode, 2mW, 615.875MHz

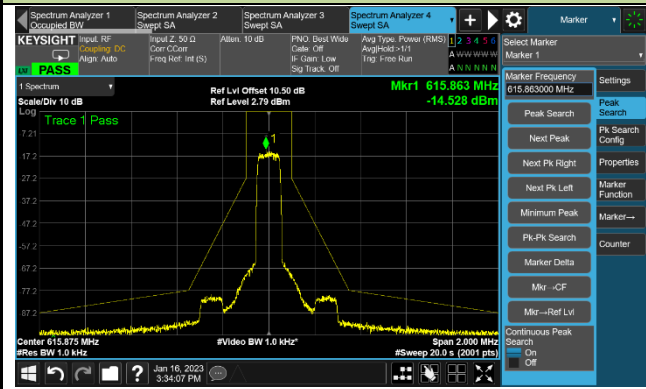
Step 1



Step 2



Step 3



**A.4 Output Power Test Result**

Test Site	WZ-TR3	Test Engineer	Dandy Li
Test Date	2023-01-03		

Frequency (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Test Result
STD Mode (35mW)					
470.125	14.22	2.55	16.77	16.99	Pass
539.000	14.28	2.55	16.83	16.99	Pass
607.875	14.36	2.55	16.91	16.99	Pass
STD Mode (10mW)					
614.125	9.33	2.55	11.88	13.01	Pass
615.875	9.29	2.55	11.84	13.01	Pass
HD Mode (2mW)					
470.125	2.95	2.55	5.50	16.99	Pass
539.000	2.08	2.55	4.63	16.99	Pass
607.875	2.58	2.55	5.13	16.99	Pass
614.125	2.46	2.55	5.01	13.01	Pass
615.875	2.42	2.55	4.97	13.01	Pass

Note 1: Limit =  $10 \cdot \log(50\text{mW}) = 16.99$  dBm.

Note 2: Limit =  $10 \cdot \log(20\text{mW}) = 13.01$  dBm.

Note 3: EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi).

**A.5 Radiated Spurious Emission Test Result**

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2023-02-07	Test Mode	STD Mode - 35mW

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
470.125	48.915	-104.5	31.9	-72.6	-54.0	-18.6	Peak	Horizontal
	542.160	-95.0	35.1	-59.9	-54.0	-5.9	Peak	Horizontal
	96.445	-104.3	40.0	-64.3	-54.0	-10.3	Peak	Vertical
	712.395	-101.9	37.2	-64.7	-54.0	-10.7	Peak	Vertical
	1354.000	-67.3	9.7	-57.6	-30.0	-27.6	Peak	Horizontal
	3904.000	-68.0	11.9	-56.1	-30.0	-26.1	Peak	Horizontal
	2818.000	-67.3	10.5	-56.8	-30.0	-26.8	Peak	Vertical
	4822.000	-69.7	14.9	-54.8	-30.0	-24.8	Peak	Vertical
539.000	119.725	-89.9	22.8	-67.1	-54.0	-13.1	Peak	Horizontal
	672.140	-95.9	36.6	-59.3	-54.0	-5.3	Peak	Horizontal
	97.415	-105.9	40.6	-65.3	-54.0	-11.3	Peak	Vertical
	666.320	-96.9	36.5	-60.4	-54.0	-6.4	Peak	Vertical
	1417.500	-66.3	8.4	-57.9	-30.0	-27.9	Peak	Horizontal
	1920.000	-63.0	8.2	-54.8	-30.0	-24.8	Peak	Horizontal
	1920.000	-63.7	8.0	-55.7	-30.0	-25.7	Peak	Vertical
	3815.000	-69.8	11.9	-57.9	-30.0	-27.9	Peak	Vertical
607.875	222.545	-103.5	31.5	-72.0	-54.0	-18.0	Peak	Horizontal
	684.265	-96.1	37.1	-59.0	-54.0	-5.0	Peak	Horizontal
	96.930	-105.9	40.4	-65.5	-54.0	-11.5	Peak	Vertical
	756.045	-103.5	38.1	-65.4	-54.0	-11.4	Peak	Vertical
	1921.000	-64.3	8.1	-56.2	-30.0	-26.2	Peak	Horizontal
	4495.000	-68.4	14.2	-54.2	-30.0	-24.2	Peak	Horizontal
	1888.000	-61.8	7.6	-54.2	-30.0	-24.2	Peak	Vertical
	3841.000	-67.7	12.1	-55.6	-30.0	-25.6	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit below 1G.

RMS measurement was not performed when peak measure level was lower than the RMS limit above 1G.

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2023-02-07	Test Mode	STD Mode - 10mW

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
614.125	49.400	-105.2	31.8	-73.4	-54.0	-19.4	Peak	Horizontal
	728.400	-103.2	38.1	-65.1	-54.0	-11.1	Peak	Horizontal
	97.900	-106.0	40.7	-65.3	-54.0	-11.3	Peak	Vertical
	754.590	-102.9	38.1	-64.8	-54.0	-10.8	Peak	Vertical
	1357.000	-67.4	9.8	-57.6	-30.0	-27.6	Peak	Horizontal
	6793.000	-72.4	20.5	-51.9	-30.0	-21.9	Peak	Horizontal
	1246.000	-66.0	8.7	-57.3	-30.0	-27.3	Peak	Vertical
	6805.000	-72.3	20.6	-51.7	-30.0	-21.7	Peak	Vertical
615.875	48.915	-104.9	31.9	-73.0	-54.0	-19.0	Peak	Horizontal
	689.600	-101.4	37.2	-64.2	-54.0	-10.2	Peak	Horizontal
	96.930	-104.4	40.4	-64.0	-54.0	-10.0	Peak	Vertical
	714.335	-103.0	37.2	-65.8	-54.0	-11.8	Peak	Vertical
	1357.000	-67.7	9.8	-57.9	-30.0	-27.9	Peak	Horizontal
	6781.000	-72.5	20.4	-52.1	-30.0	-22.1	Peak	Horizontal
	1357.000	-67.3	9.1	-58.2	-30.0	-28.2	Peak	Vertical
	6820.000	-72.1	20.5	-51.6	-30.0	-21.6	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit below 1G.

RMS measurement was not performed when peak measure level was lower than the RMS limit above 1G.

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2023-02-07	Test Mode	HD Mode - 2mW

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	50.370	-104.9	31.4	-73.5	-54.0	-19.5	Peak	Horizontal
	701.725	-102.6	37.7	-64.9	-54.0	-10.9	Peak	Horizontal
	96.445	-104.9	40.0	-64.9	-54.0	-10.9	Peak	Vertical
	695.420	-103.9	37.3	-66.6	-54.0	-12.6	Peak	Vertical
	1920.000	-64.0	8.2	-55.8	-30.0	-25.8	Peak	Horizontal
	3176.000	-67.3	10.8	-56.5	-30.0	-26.5	Peak	Horizontal
	1920.000	-63.0	8.0	-55.0	-30.0	-25.0	Peak	Vertical
	2818.000	-68.1	10.5	-57.6	-30.0	-27.6	Peak	Vertical
539.000	53.280	-103.9	30.4	-73.5	-54.0	-19.5	Peak	Horizontal
	686.690	-102.4	37.1	-65.3	-54.0	-11.3	Peak	Horizontal
	98.385	-105.3	40.2	-65.1	-54.0	-11.1	Peak	Vertical
	742.950	-102.3	37.6	-64.7	-54.0	-10.7	Peak	Vertical
	1920.000	-64.1	8.2	-55.9	-30.0	-25.9	Peak	Horizontal
	4515.000	-69.8	14.4	-55.4	-30.0	-25.4	Peak	Horizontal
	1920.000	-63.2	8.0	-55.2	-30.0	-25.2	Peak	Vertical
	3840.000	-67.1	12.1	-55.0	-30.0	-25.0	Peak	Vertical
607.875	50.855	-105.0	31.3	-73.7	-54.0	-19.7	Peak	Horizontal
	723.065	-102.4	38.1	-64.3	-54.0	-10.3	Peak	Horizontal
	98.385	-105.6	40.2	-65.4	-54.0	-11.4	Peak	Vertical
	758.955	-103.4	38.4	-65.0	-54.0	-11.0	Peak	Vertical
	1255.000	-67.0	9.3	-57.7	-30.0	-27.7	Peak	Horizontal
	4141.000	-68.5	13.3	-55.2	-30.0	-25.2	Peak	Horizontal
	1921.000	-63.4	8.0	-55.4	-30.0	-25.4	Peak	Vertical
	4309.000	-70.2	14.0	-56.2	-30.0	-26.2	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit below 1G.

RMS measurement was not performed when peak measure level was lower than the RMS limit above 1G.

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2023-02-07	Test Mode	HD Mode - 2mW

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)
614.125	47.945	-105.0	32.0	-73.0	-54.0	-19.0	Peak	Horizontal
	704.150	-102.4	37.7	-64.7	-54.0	-10.7	Peak	Horizontal
	97.900	-104.8	40.7	-64.1	-54.0	-10.1	Peak	Vertical
	630.430	-103.1	36.0	-67.1	-54.0	-13.1	Peak	Vertical
	1921.000	-64.1	8.1	-56.0	-30.0	-26.0	Peak	Horizontal
	4840.000	-68.9	14.5	-54.4	-30.0	-24.4	Peak	Horizontal
	1921.000	-63.1	8.0	-55.1	-30.0	-25.1	Peak	Vertical
	4834.000	-70.0	14.7	-55.3	-30.0	-25.3	Peak	Vertical
615.875	101.295	-103.0	24.9	-78.1	-54.0	-24.1	Peak	Horizontal
	737.615	-101.7	37.9	-63.8	-54.0	-9.8	Peak	Horizontal
	97.900	-105.9	40.7	-65.2	-54.0	-11.2	Peak	Vertical
	721.610	-102.7	37.2	-65.5	-54.0	-11.5	Peak	Vertical
	1921.000	-63.7	8.1	-55.6	-30.0	-25.6	Peak	Horizontal
	4858.000	-69.0	15.0	-54.0	-30.0	-24.0	Peak	Horizontal
	1921.000	-63.4	8.0	-55.4	-30.0	-25.4	Peak	Vertical
	3097.000	-66.4	10.0	-56.4	-30.0	-26.4	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

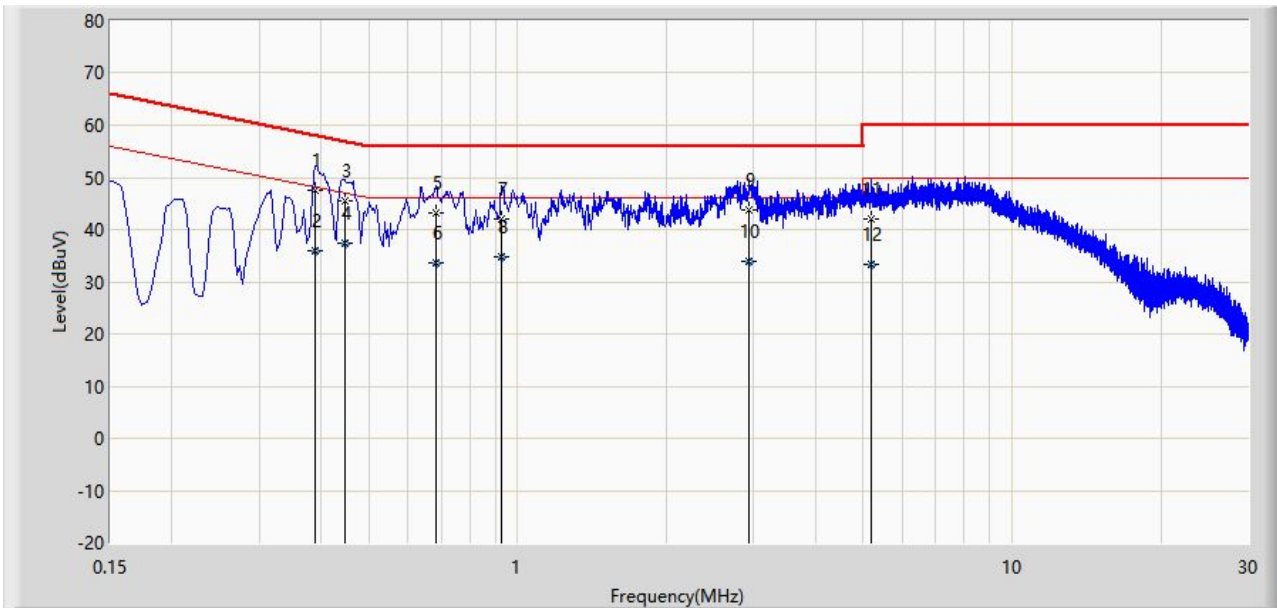
Note 3: QP measurement was not performed when peak measure level was lower than the QP limit below 1G.

RMS measurement was not performed when peak measure level was lower than the RMS limit above 1G.



**A.6 AC Conducted Emissions Test Result**

Site: WZ-SR2	Test Date: 2023-02-06
Limit: FCC_Part15.207_CE_AC Power	Engineer: Helen Han
Probe: ENV216_101683_Filter Off_E	Polarity: Line
EUT: Digital Plug-on Transmitter	Power: AC 120V/60Hz
Note: STD mode, 35mW, Transmit at 470.125MHz	



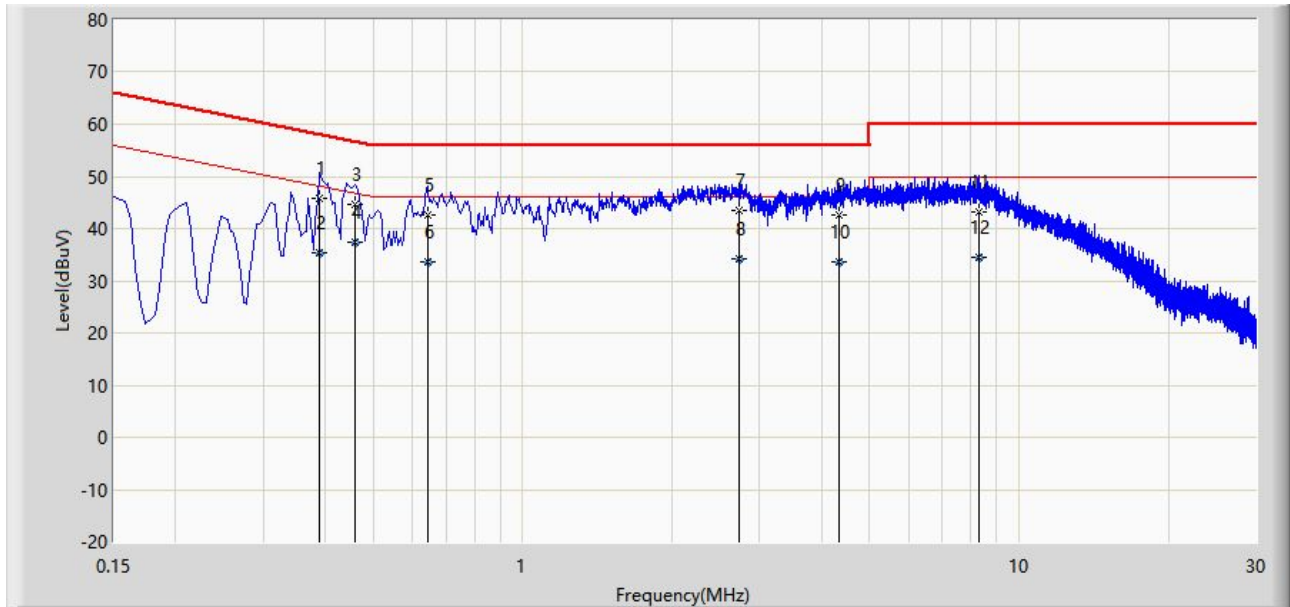
No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.390	47.468	37.544	-10.595	58.064	9.924	QP
2			0.390	36.013	26.089	-12.050	48.064	9.924	AV
3			0.446	45.605	35.668	-11.344	56.949	9.937	QP
4		*	0.446	37.324	27.387	-9.625	46.949	9.937	AV
5			0.682	43.097	33.149	-12.903	56.000	9.948	QP
6			0.682	33.536	23.588	-12.464	46.000	9.948	AV
7			0.930	42.110	32.137	-13.890	56.000	9.972	QP
8			0.930	34.742	24.770	-11.258	46.000	9.972	AV
9			2.942	43.703	33.524	-12.297	56.000	10.179	QP
10			2.942	33.810	23.631	-12.190	46.000	10.179	AV
11			5.186	41.900	31.314	-18.100	60.000	10.586	QP
12			5.186	33.446	22.859	-16.554	50.000	10.586	AV

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: WZ-SR2	Test Date: 2023-02-06
Limit: FCC_Part15.207_CE_AC Power	Engineer: Helen Han
Probe: ENV216_101683_Filter Off_E	Polarity: Neutral
EUT: Digital Plug-on Transmitter	Power: AC 120V/60Hz
Note: STD mode, 35mW, Transmit at 470.125MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.390	45.799	35.857	-12.265	58.064	9.941	QP
2			0.390	35.344	25.403	-12.720	48.064	9.941	AV
3			0.458	44.633	34.680	-12.095	56.729	9.953	QP
4		*	0.458	37.416	27.464	-9.312	46.729	9.953	AV
5			0.642	42.539	32.566	-13.461	56.000	9.973	QP
6			0.642	33.501	23.528	-12.499	46.000	9.973	AV
7			2.730	43.550	33.386	-12.450	56.000	10.164	QP
8			2.730	34.123	23.960	-11.877	46.000	10.164	AV
9			4.342	42.490	32.009	-13.510	56.000	10.480	QP
10			4.342	33.612	23.131	-12.388	46.000	10.480	AV
11			8.302	43.156	32.304	-16.844	60.000	10.853	QP
12			8.302	34.558	23.705	-15.442	50.000	10.853	AV

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

## **Appendix B - Test Setup Photograph**

Refer to "2211RSU077-UT" file.

## Appendix C - EUT Photograph

Refer to "2211RSU077-UE" file.