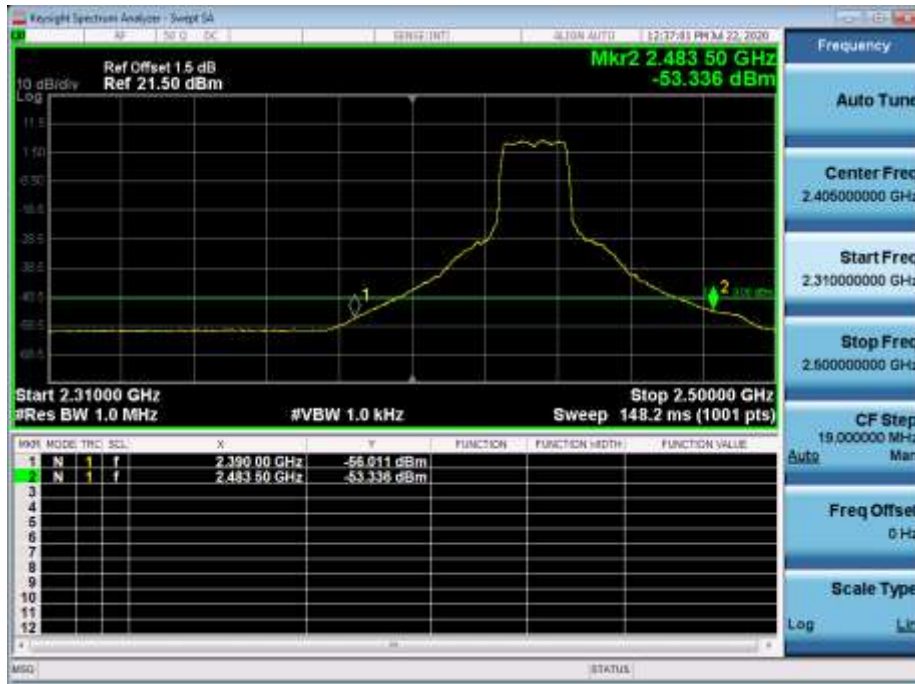


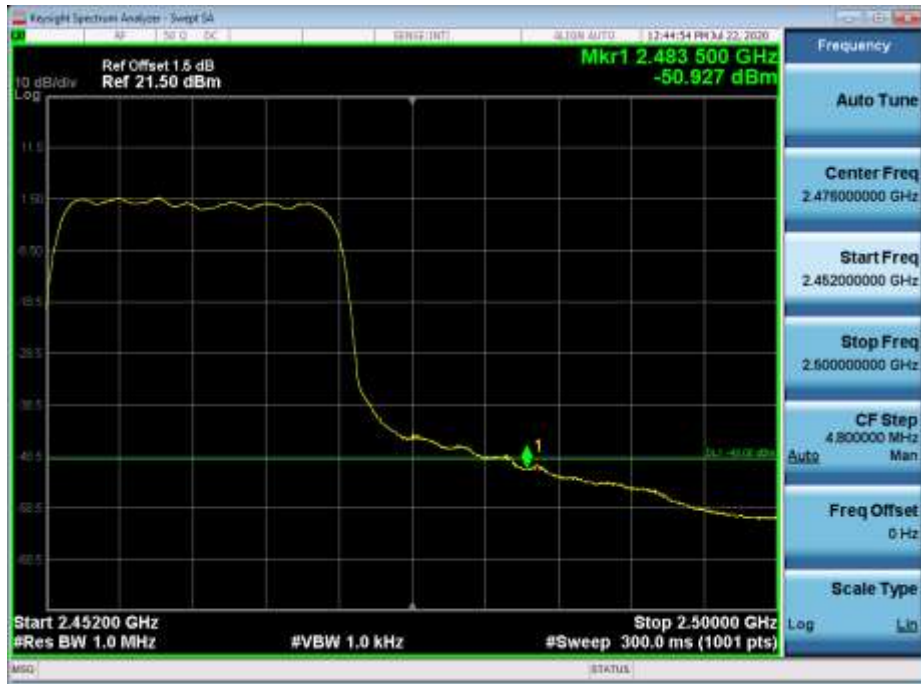
2437MHz by 802.11ax(20MHz):



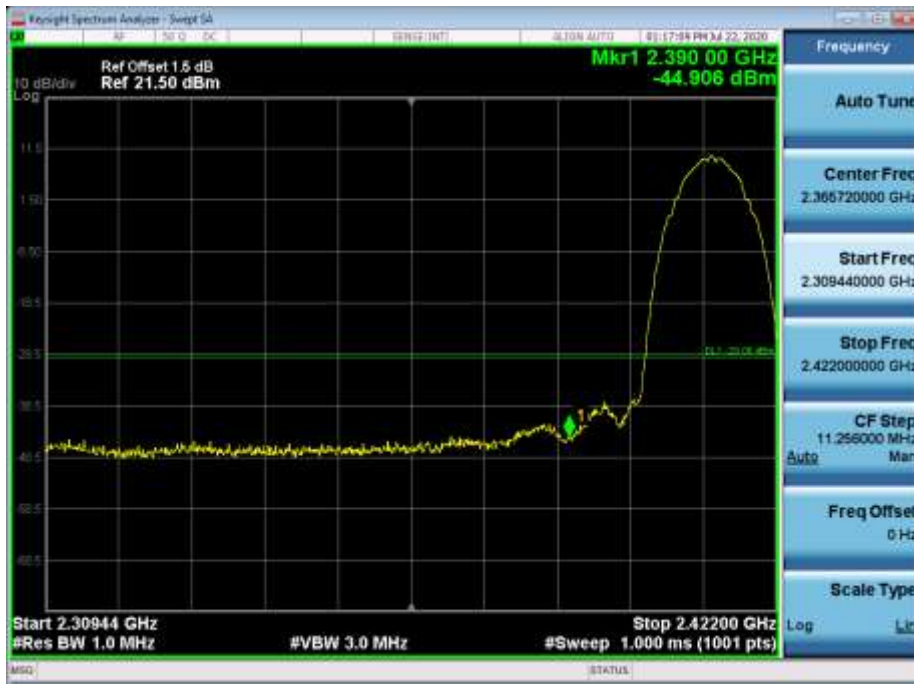
2457MHz by 802.11ax(20MHz):



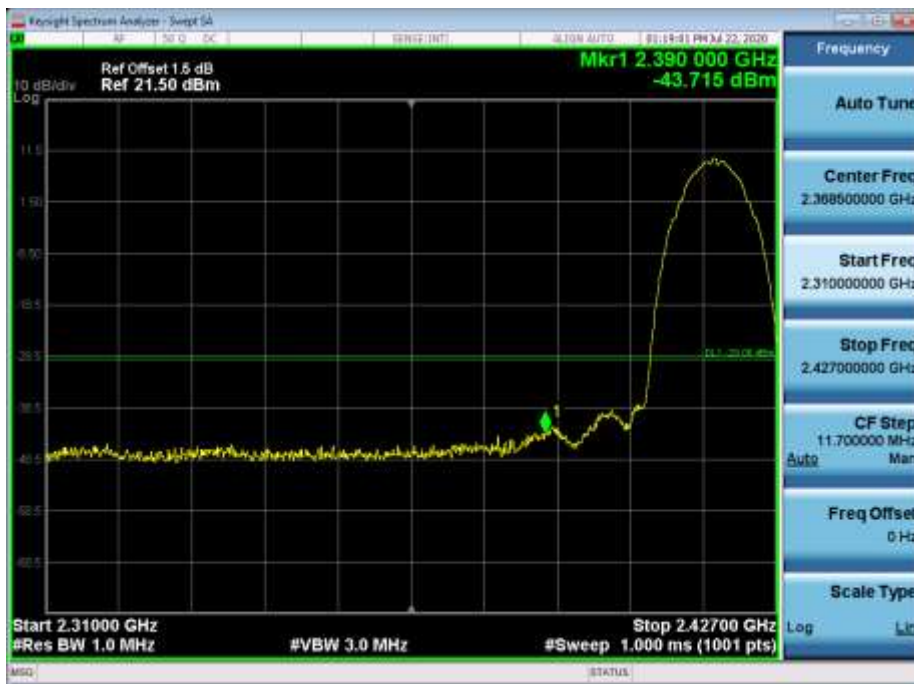
2462MHz by 802.11ax(20MHz):



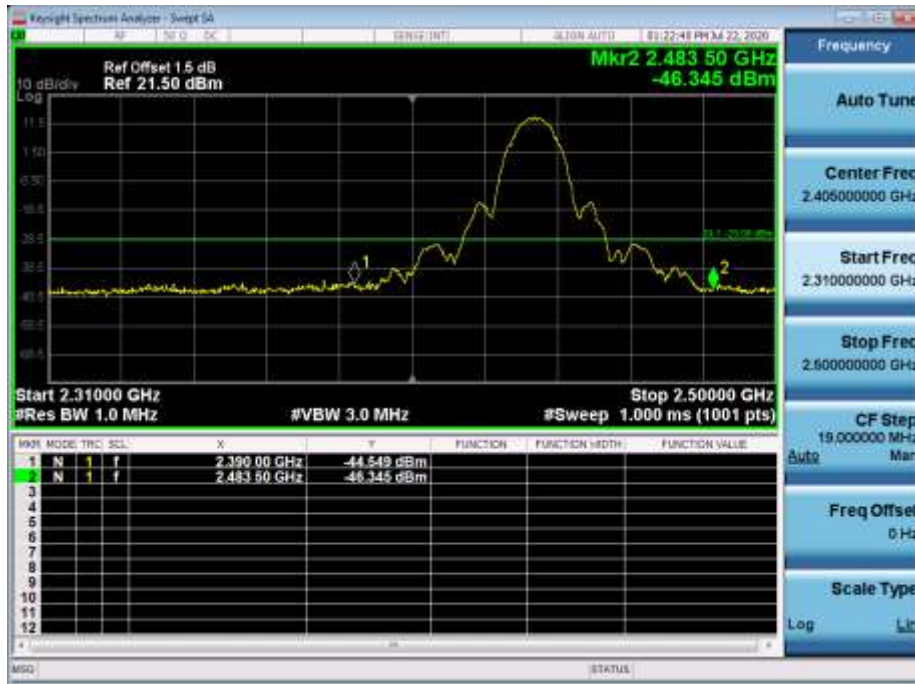
**PK Limit-SISO:
2412MHz by 802.11b:**



2417MHz by 802.11b:



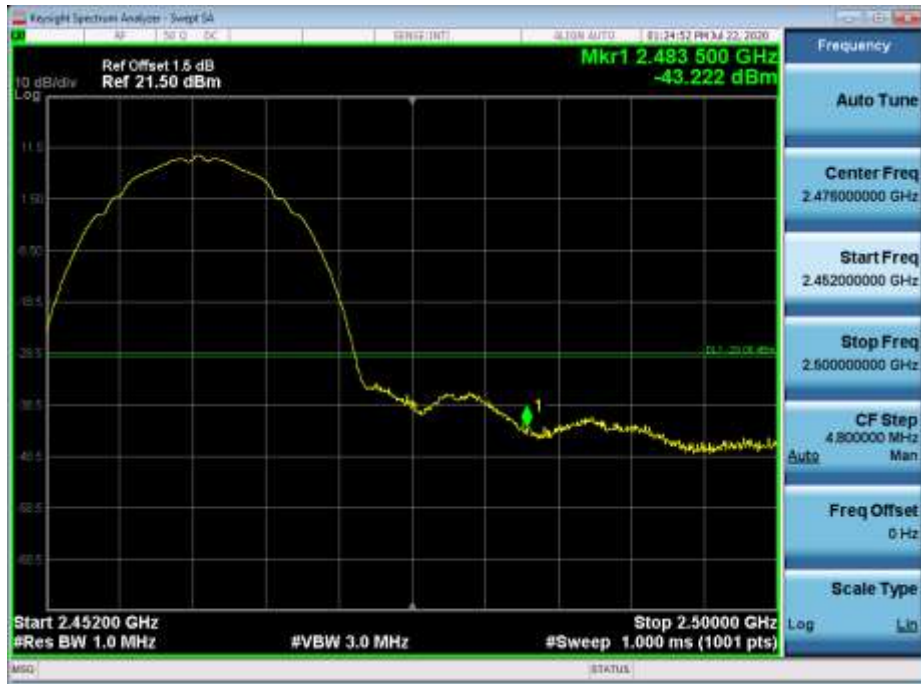
2437MHz by 802.11b:



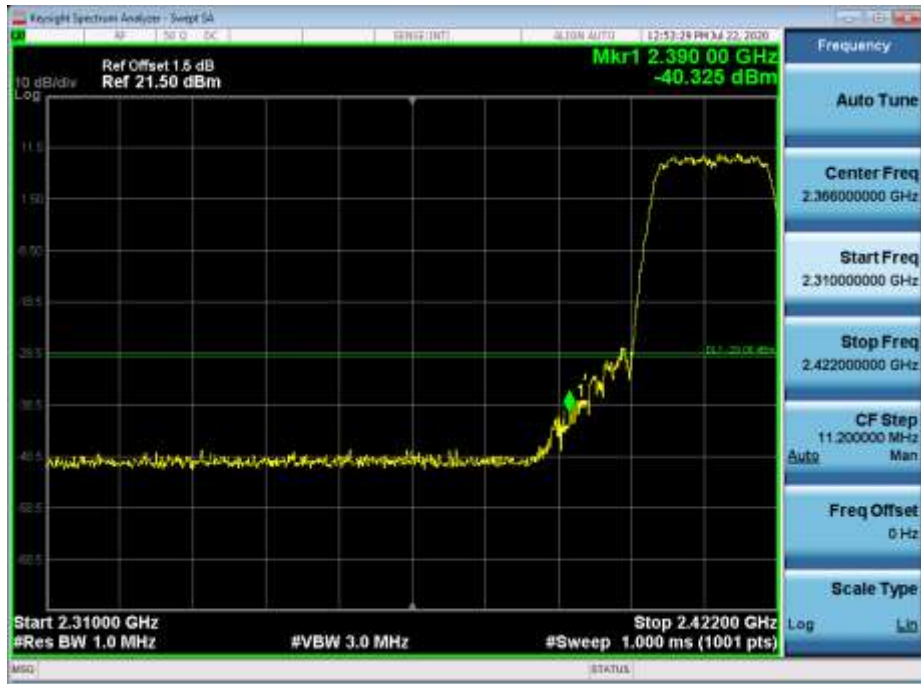
2457MHz by 802.11b:



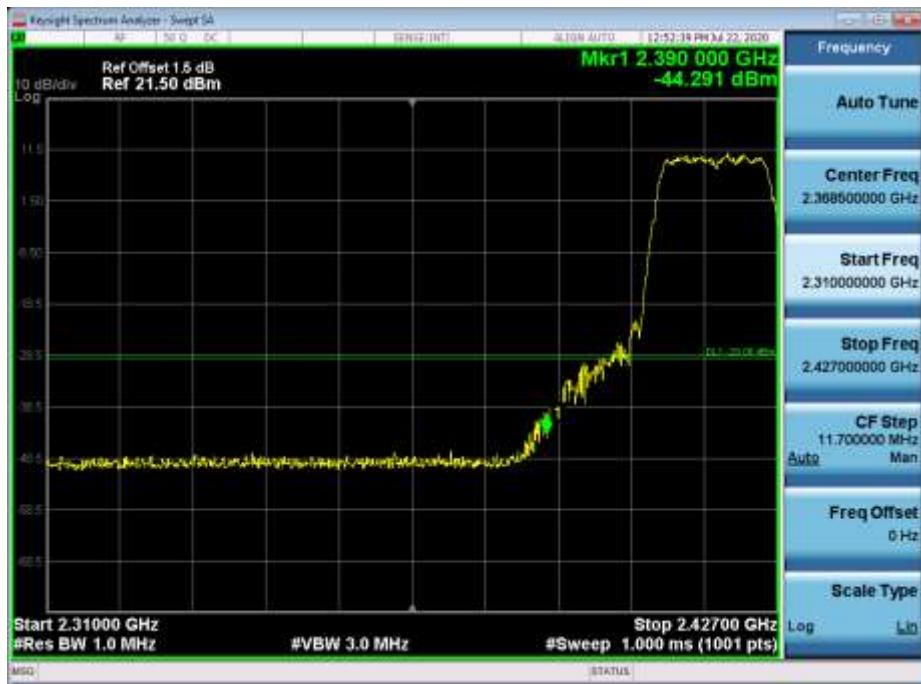
2462MHz by 802.11b:



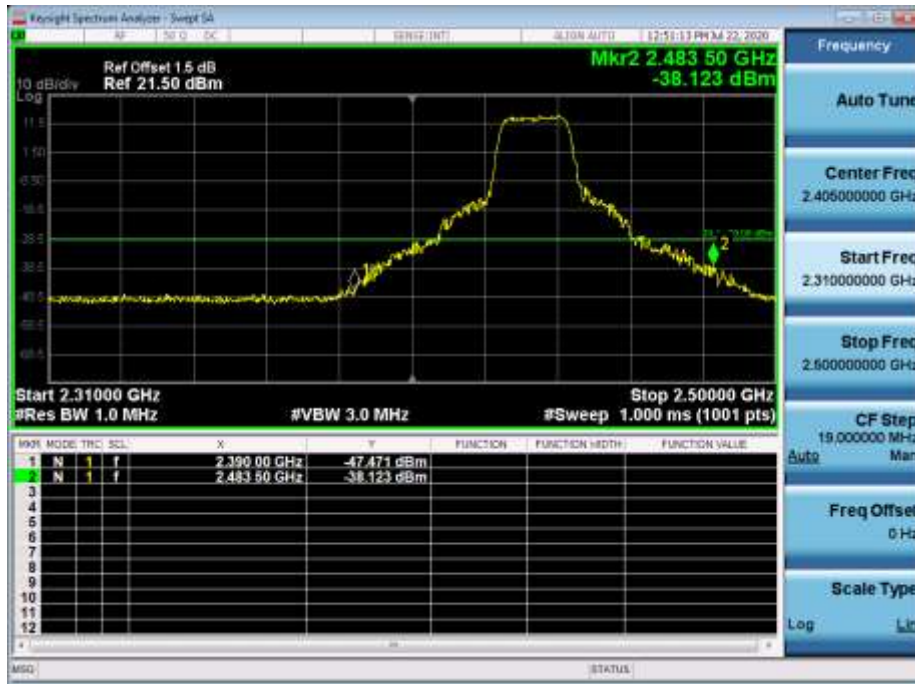
2412MHz by 802.11g:



2417MHz by 802.11g:



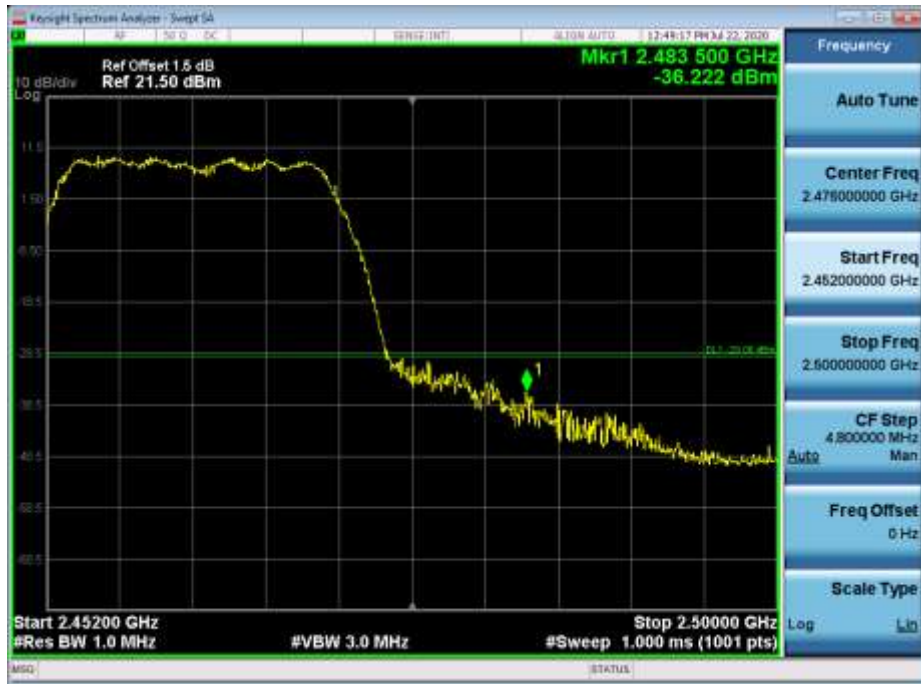
2437MHz by 802.11g:



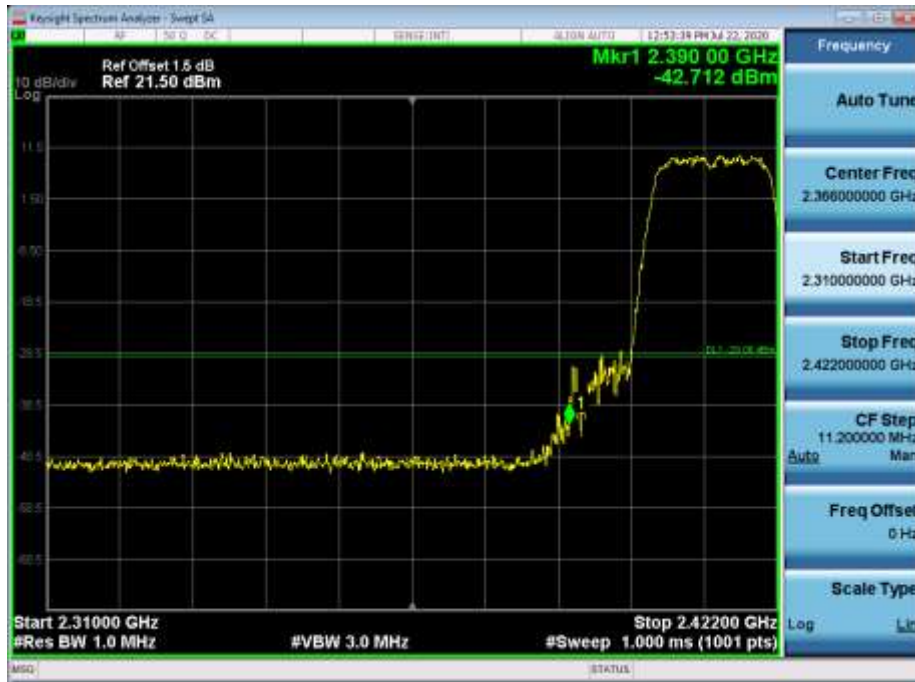
2457MHz by 802.11g:



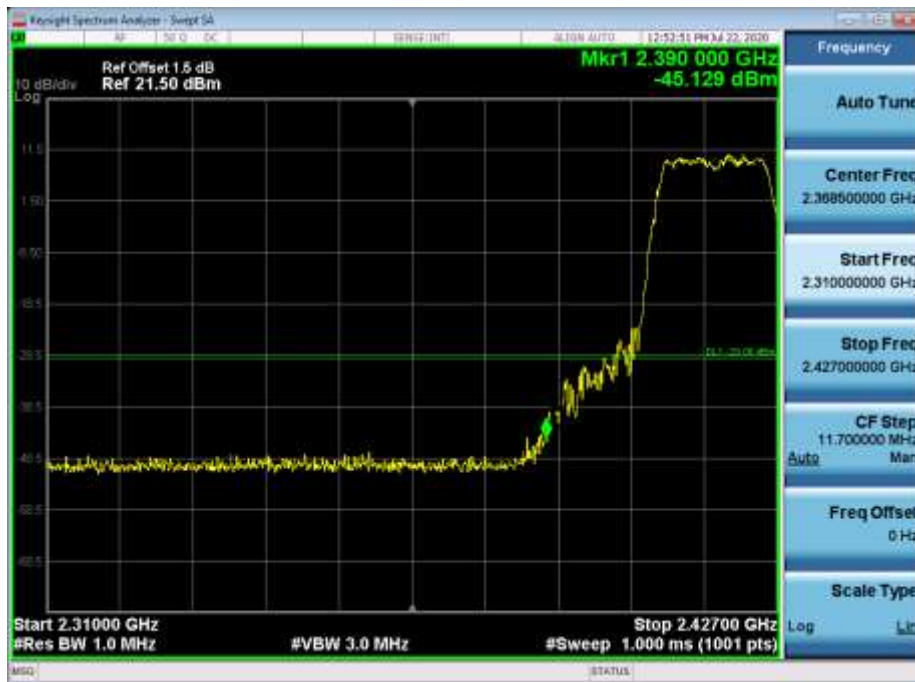
2462MHz by 802.11g:



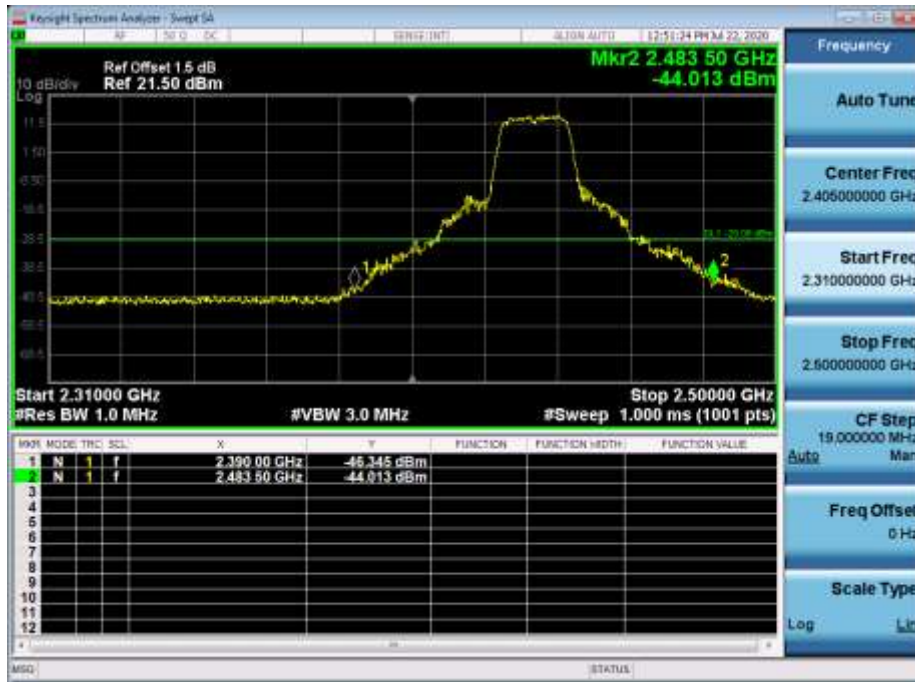
2412MHz by 802.11n(20MHz):



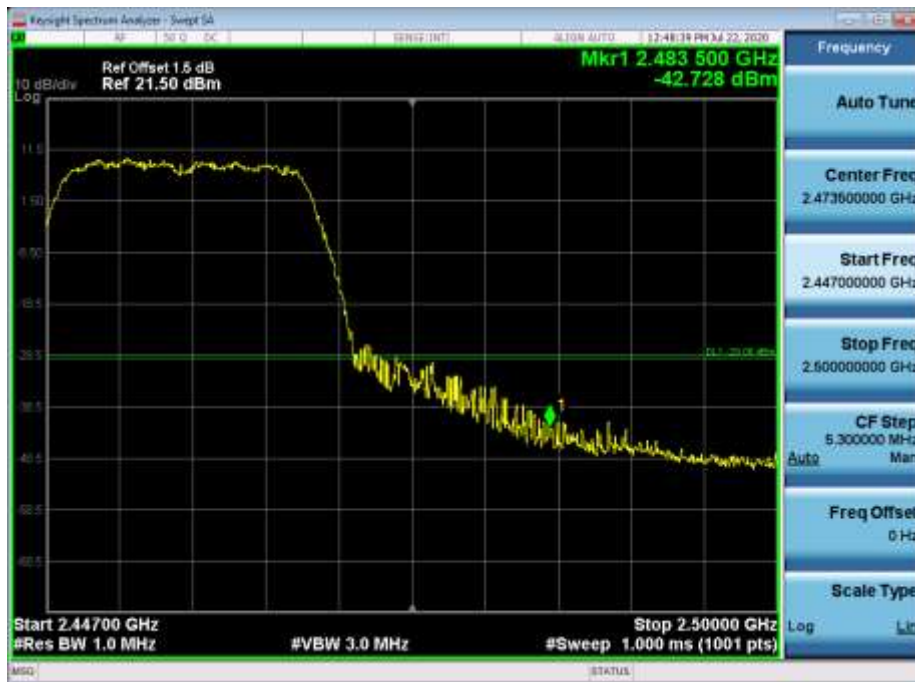
2417MHz by 802.11n(20MHz):



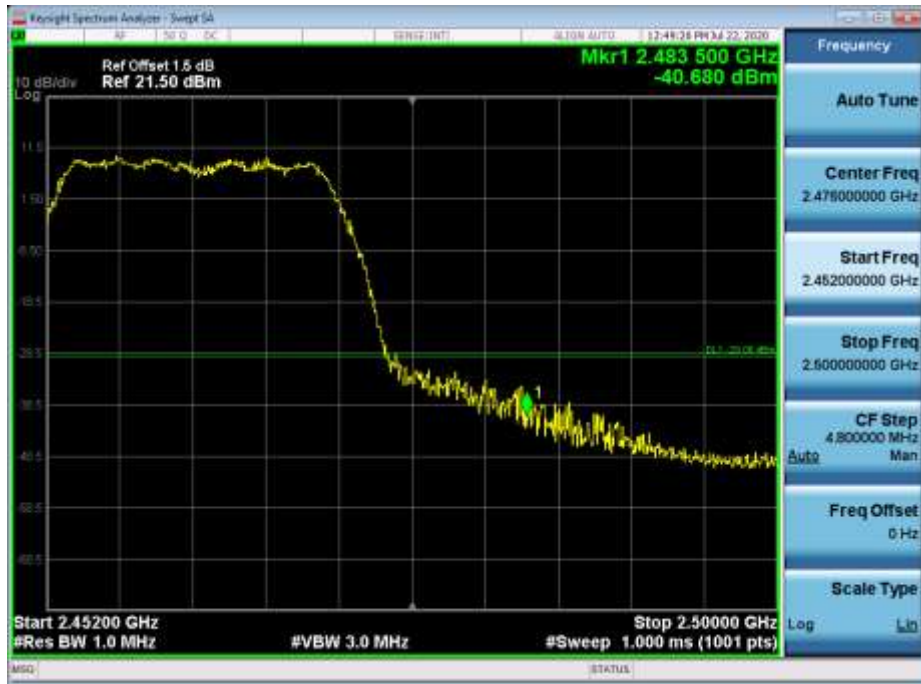
2437MHz by 802.11n(20MHz):



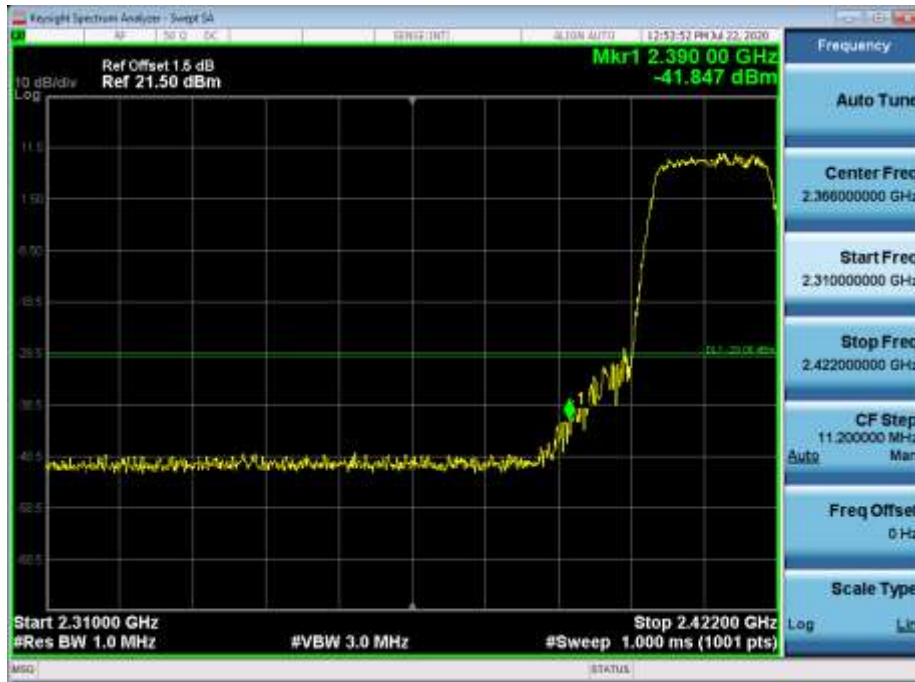
2457MHz by 802.11n(20MHz):



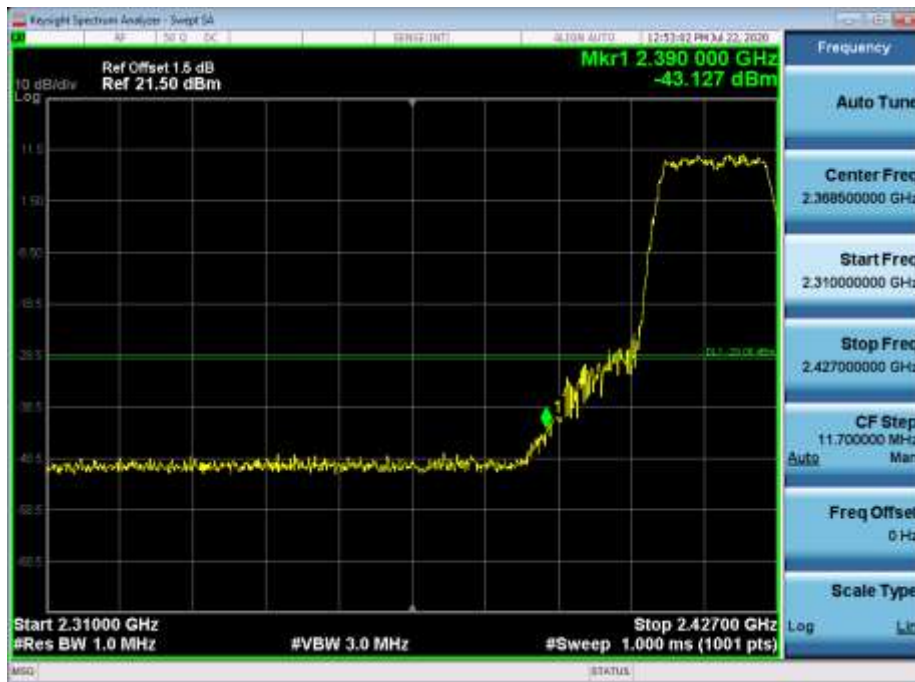
2462MHz by 802.11n(20MHz):



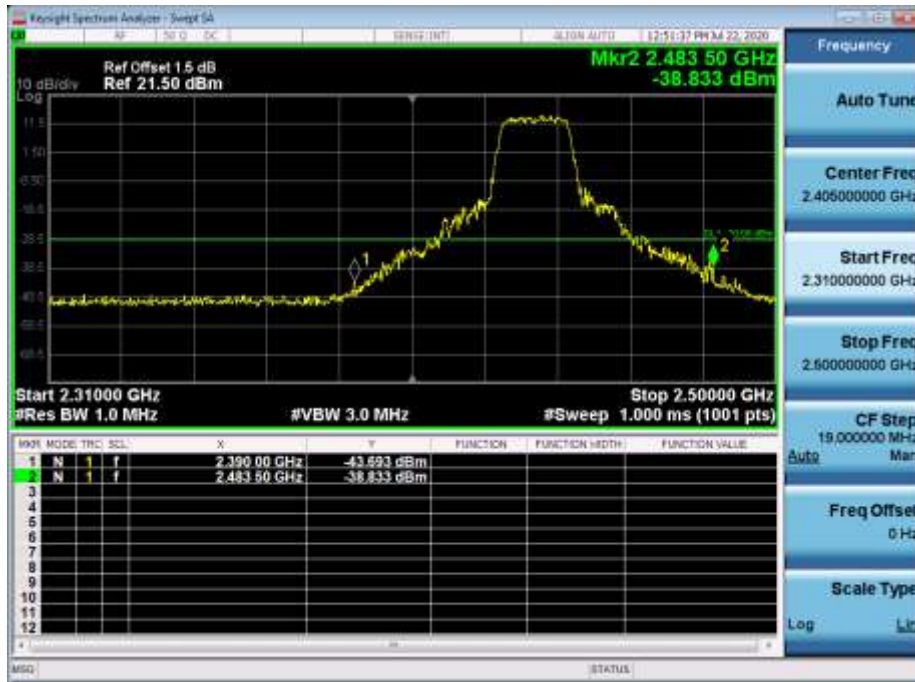
2412MHz by 802.11ax(20MHz):



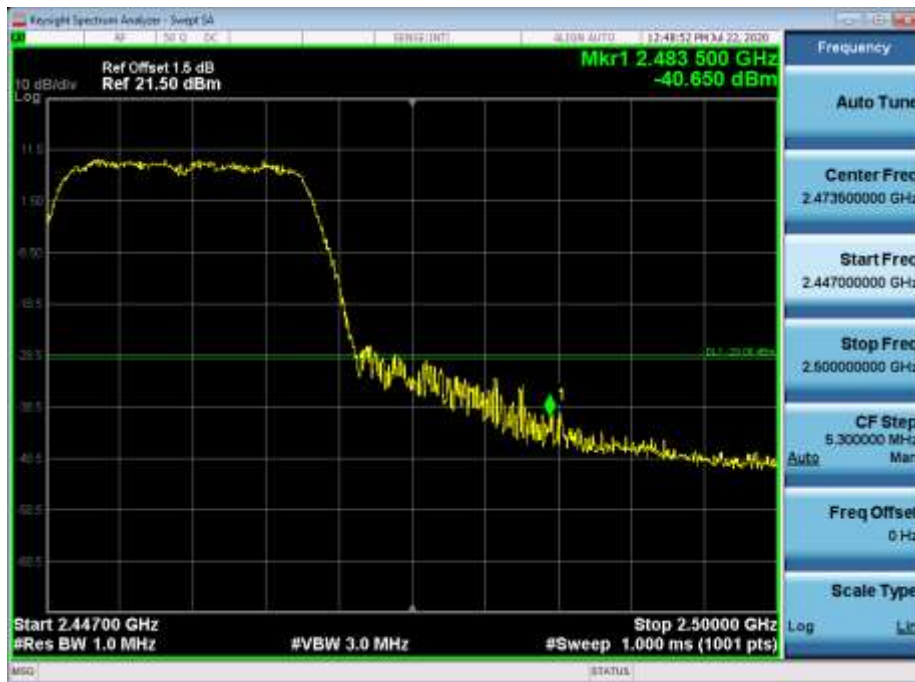
2417MHz by 802.11ax(20MHz):



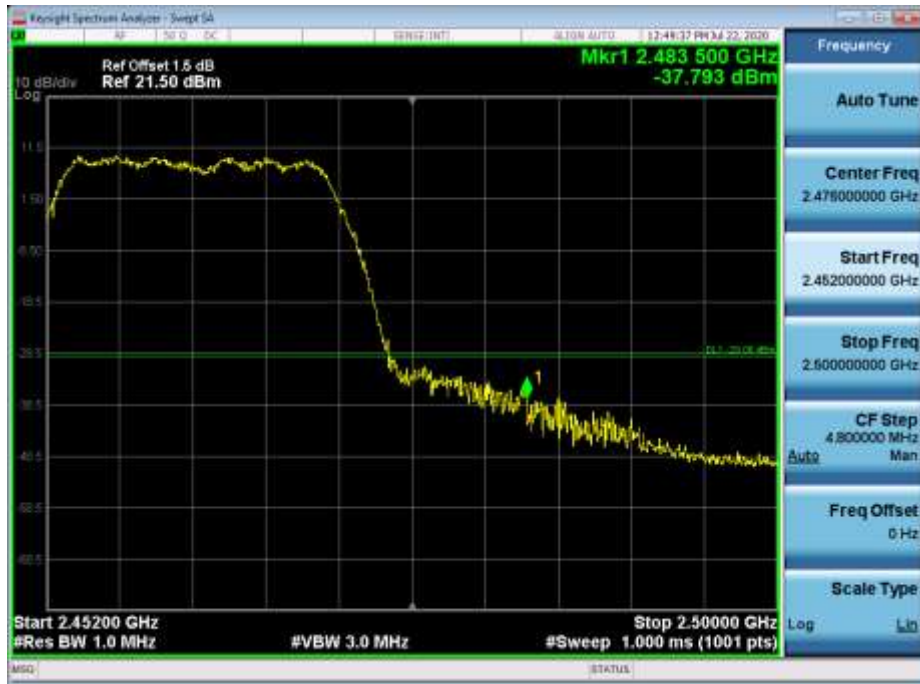
2437MHz by 802.11ax(20MHz):



2457MHz by 802.11ax(20MHz):



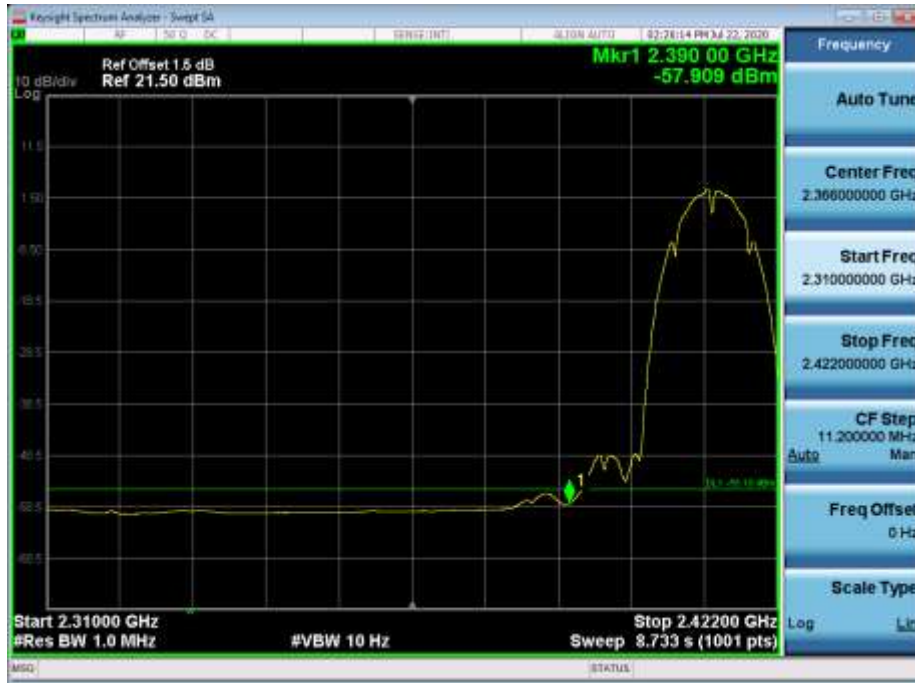
2462MHz by 802.11ax(20MHz):



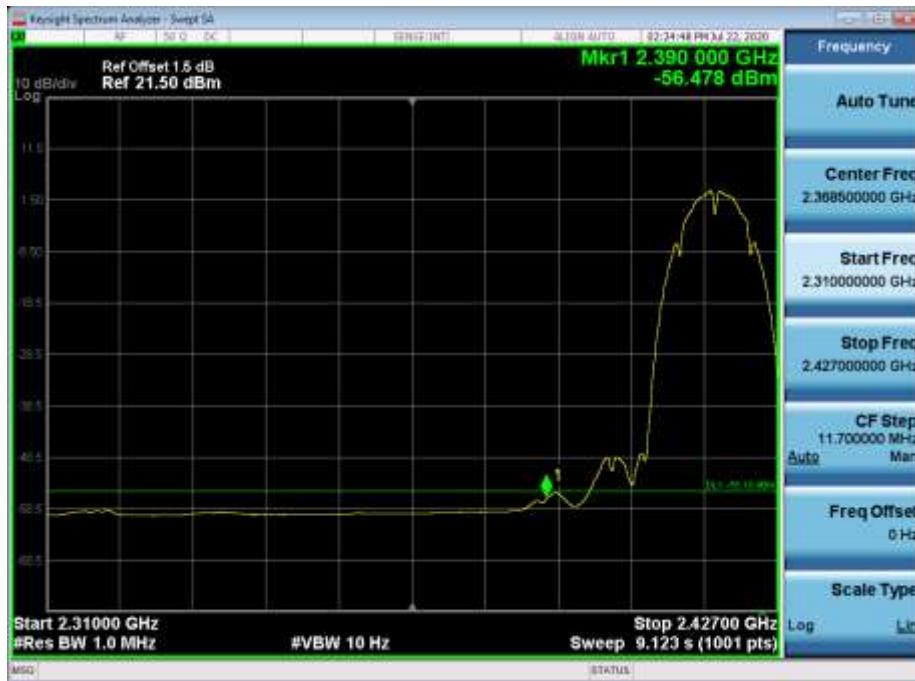
Radio 2

AV Limit-CDD:

2412MHz by 802.11b:



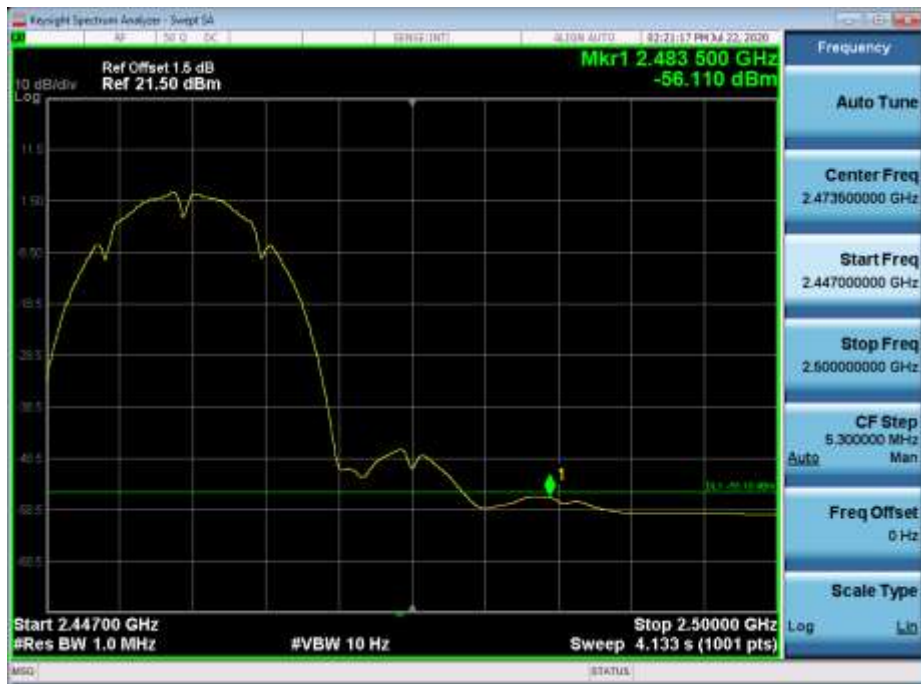
2417MHz by 802.11b:



2437MHz by 802.11b:



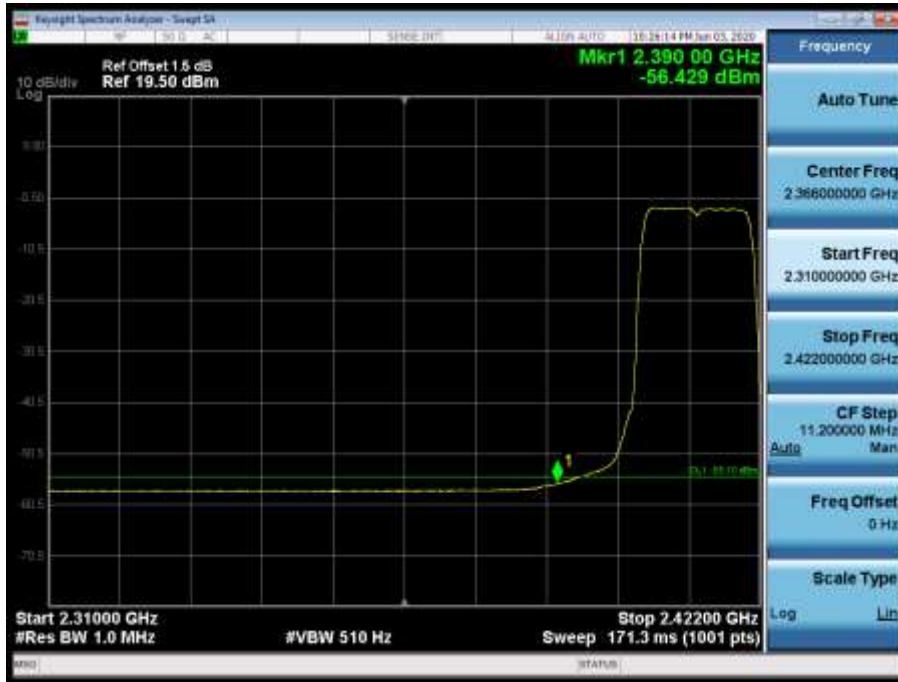
2457MHz by 802.11b:



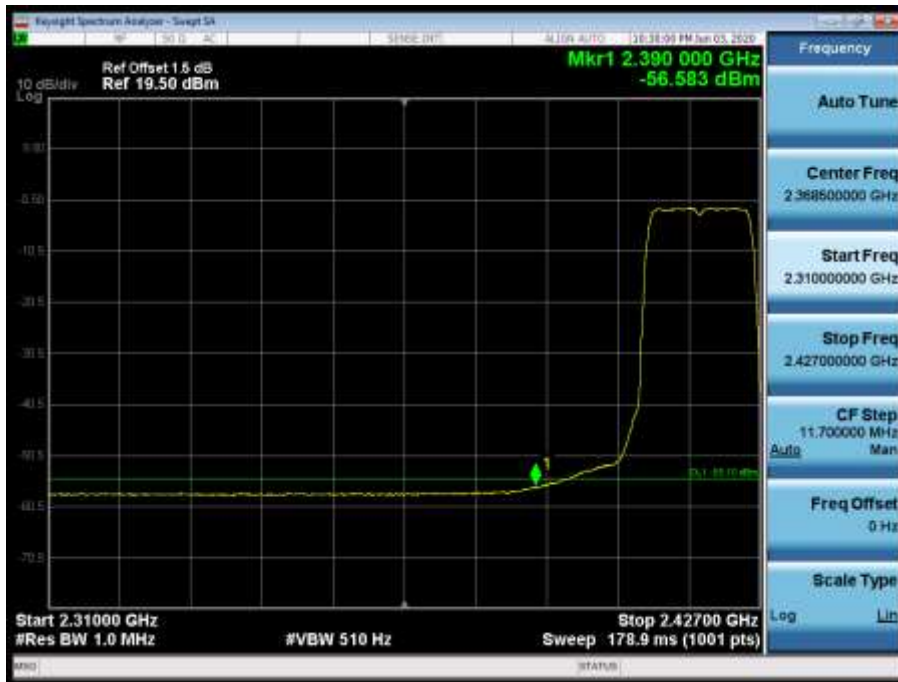
2462MHz by 802.11b:



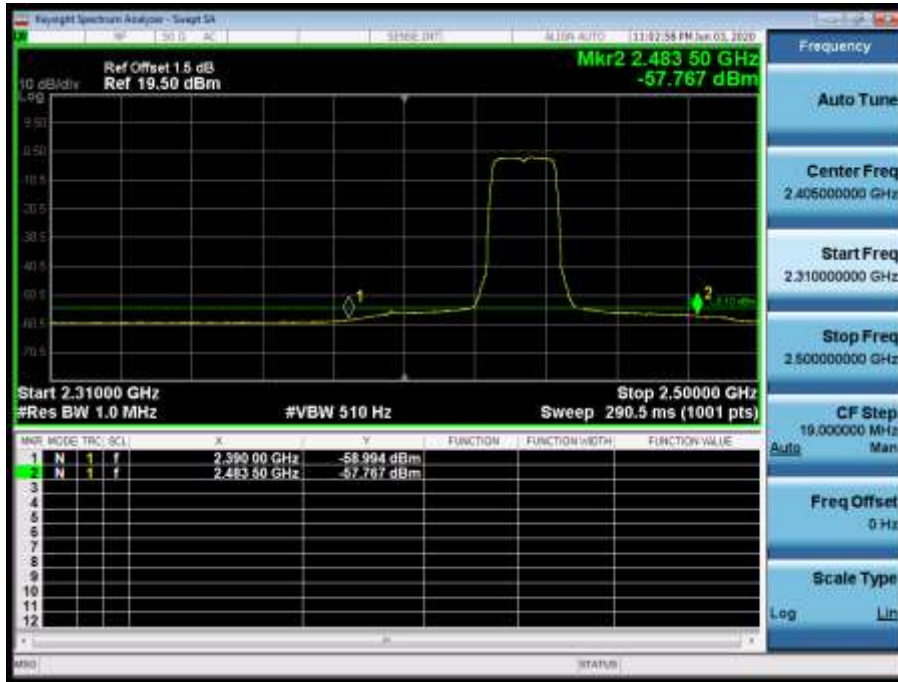
2412MHz by 802.11g:



2417MHz by 802.11g:



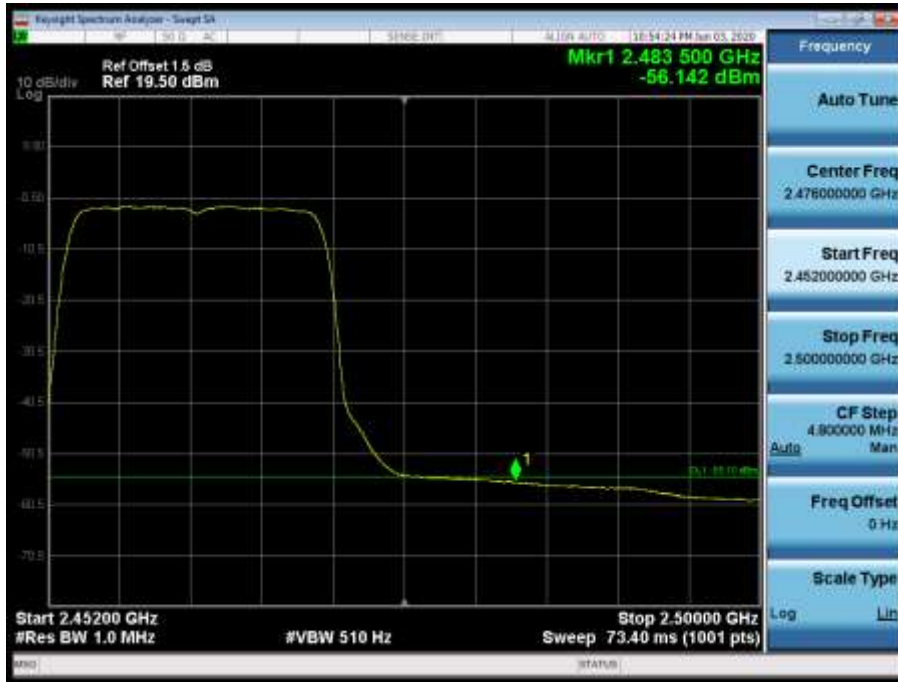
2437MHz by 802.11g:



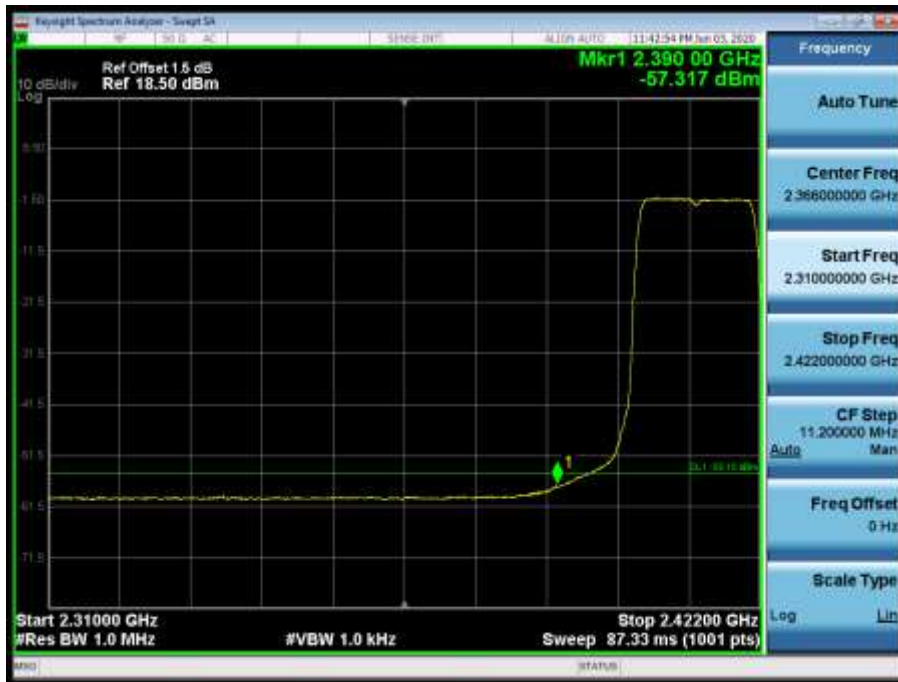
2457MHz by 802.11g:



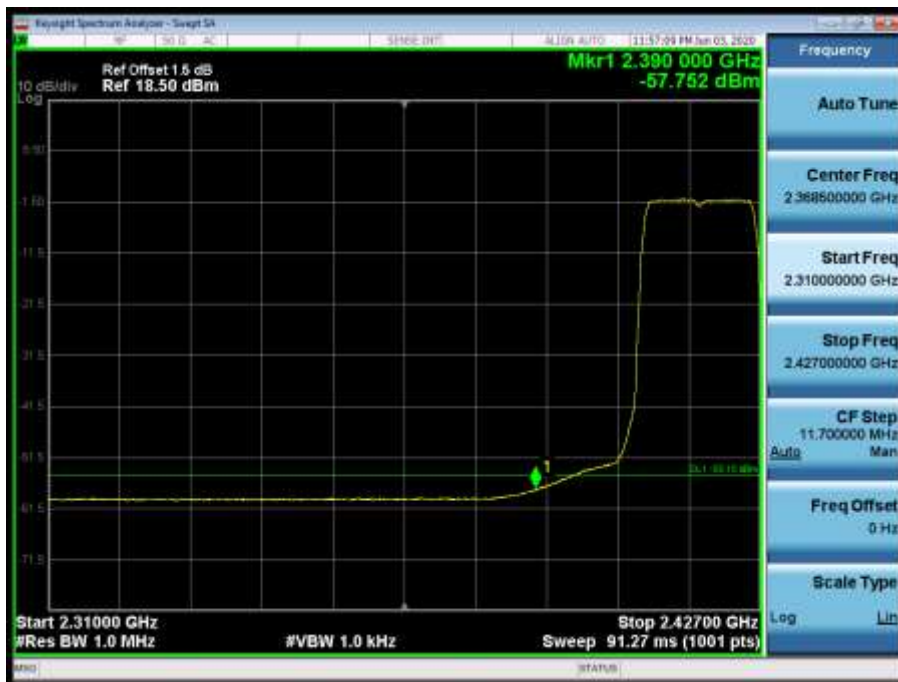
2462MHz by 802.11g:



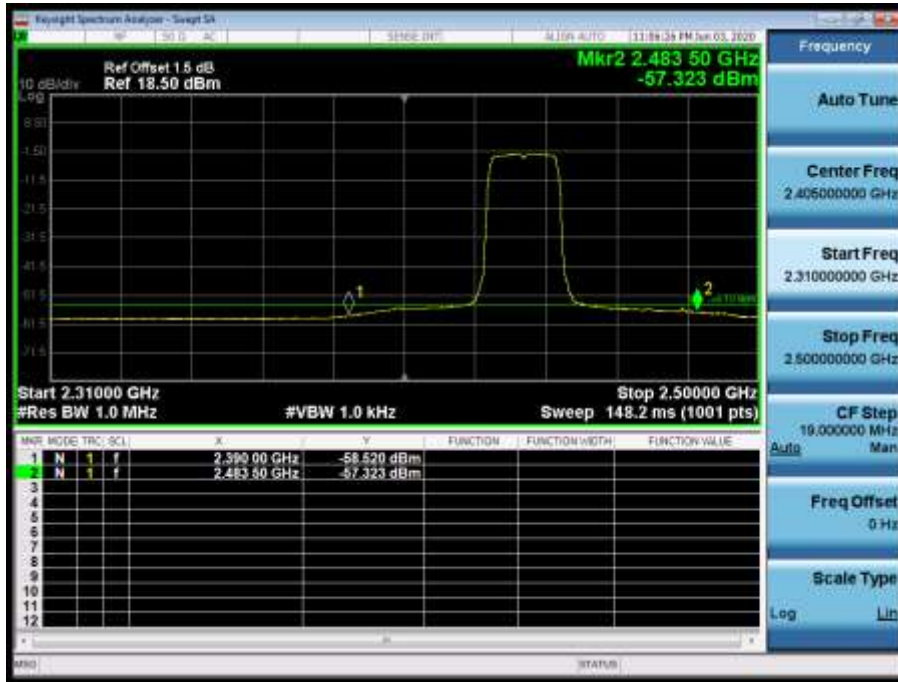
2412MHz by 802.11n(20MHz):



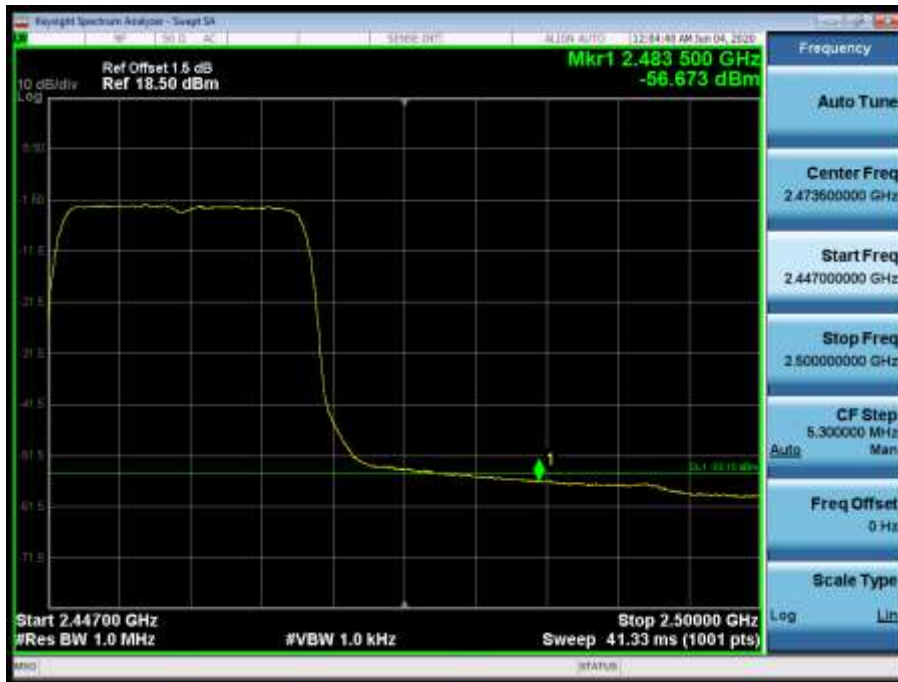
2417MHz by 802.11n(20MHz):



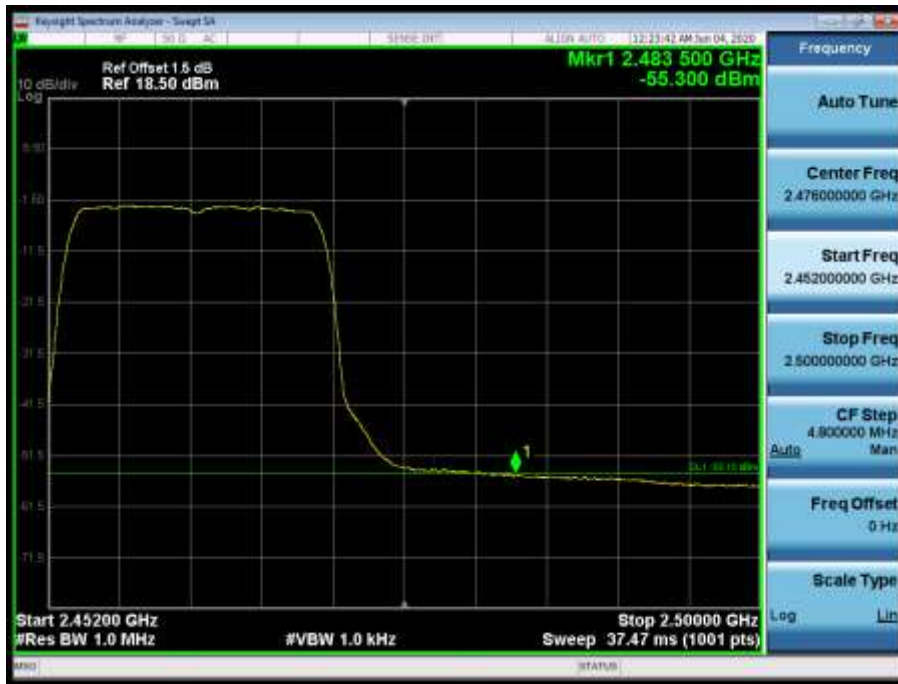
2437MHz by 802.11n(20MHz):



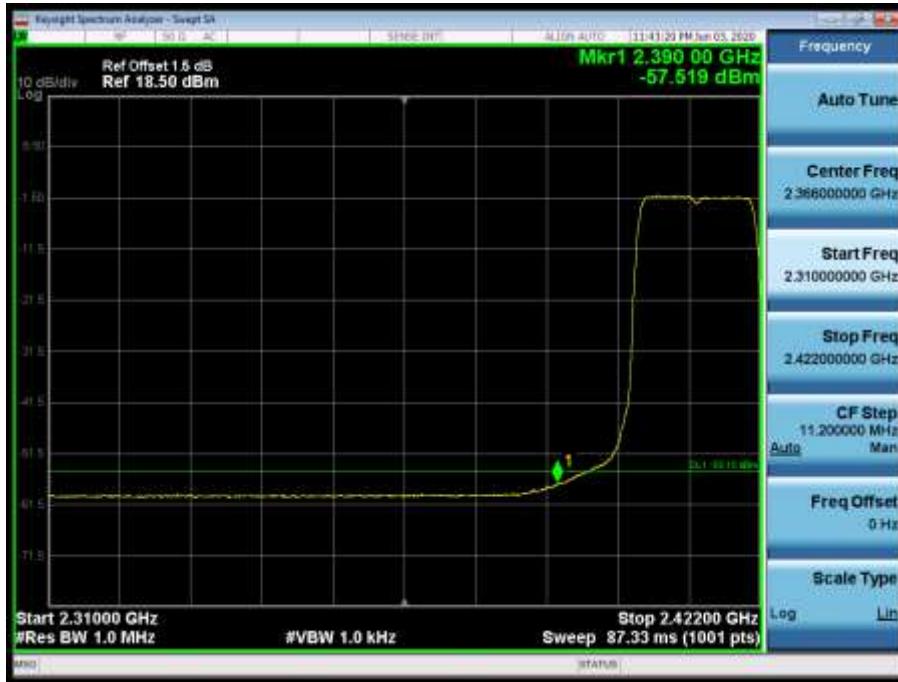
2457MHz by 802.11n(20MHz):



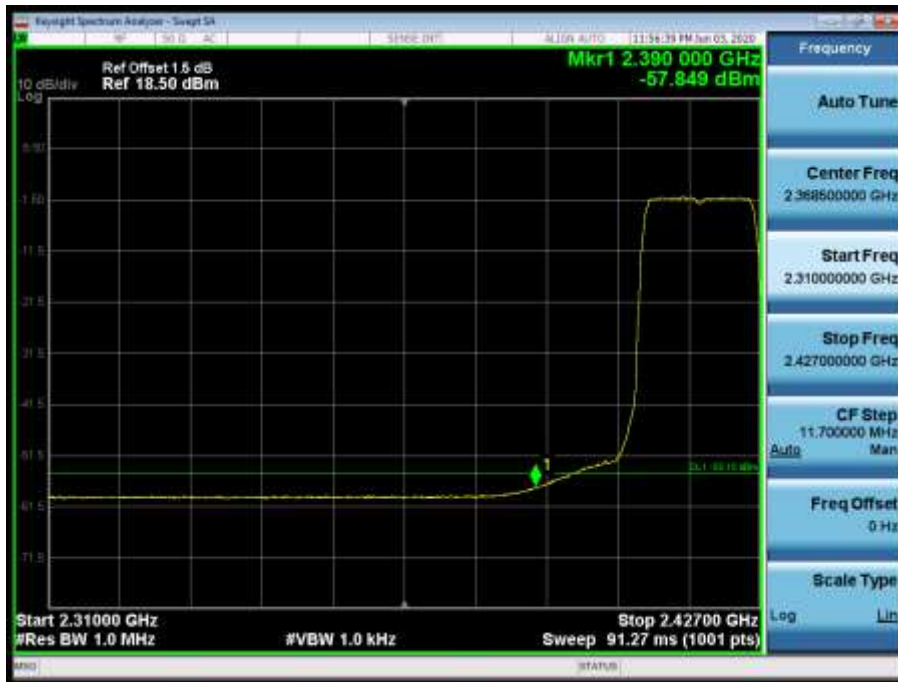
2462MHz by 802.11n(20MHz):



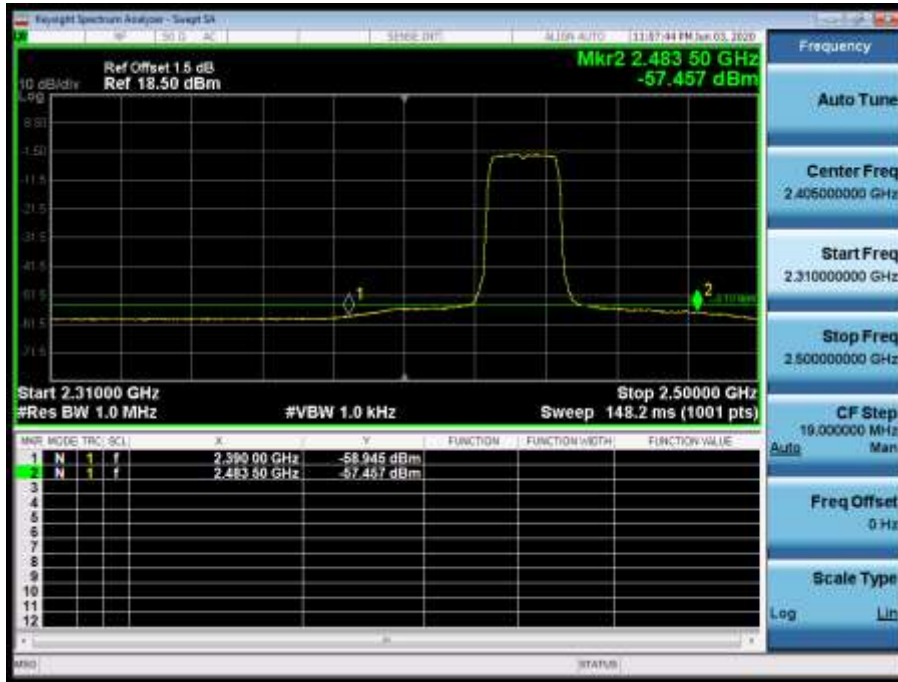
2412MHz by 802.11ax(20MHz):



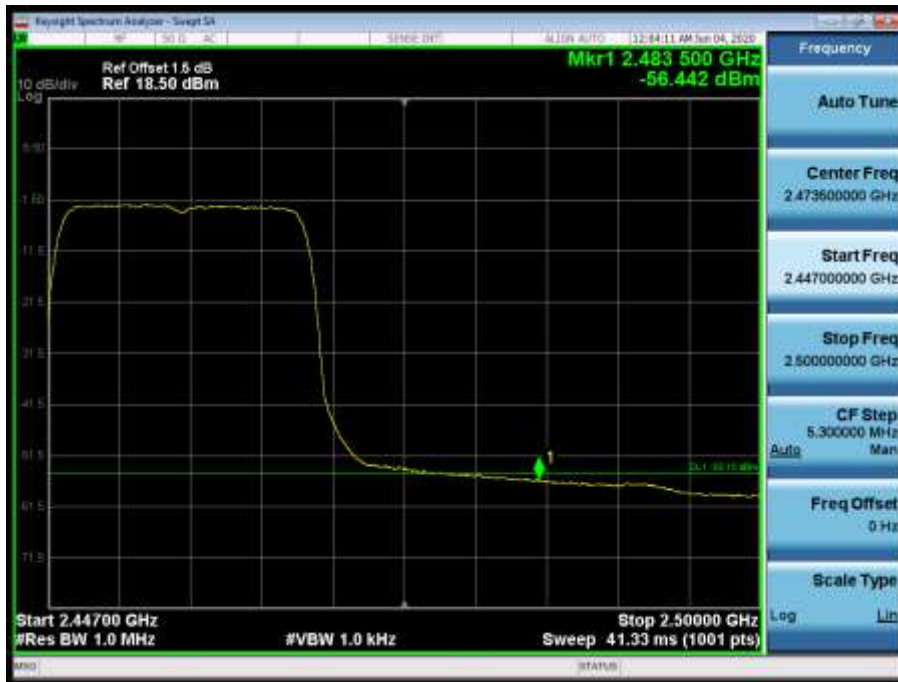
2417MHz by 802.11ax(20MHz):



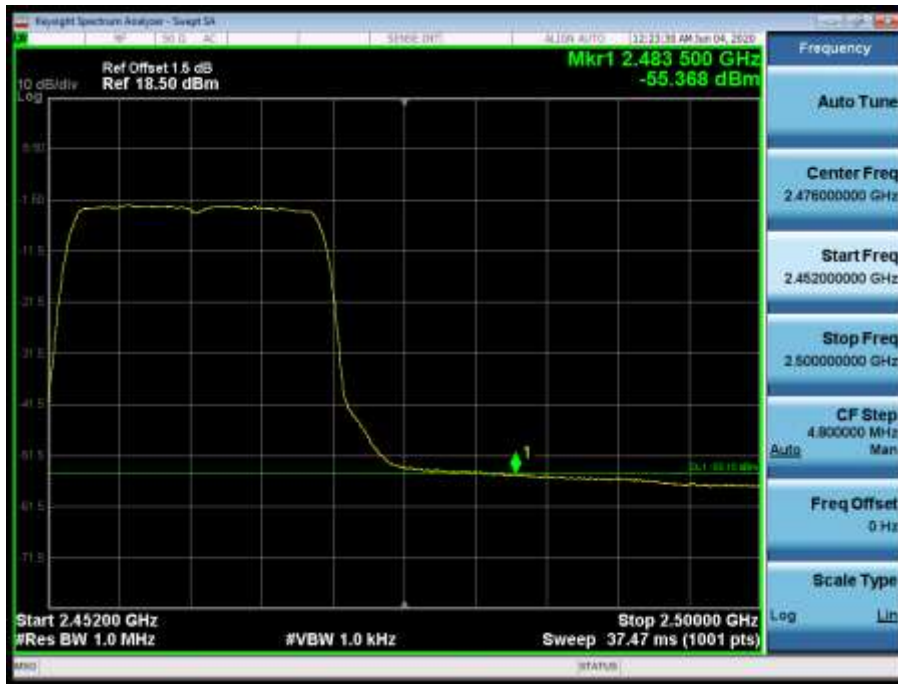
2437MHz by 802.11ax(20MHz):



2457MHz by 802.11ax(20MHz):



2462MHz by 802.11ax(20MHz):

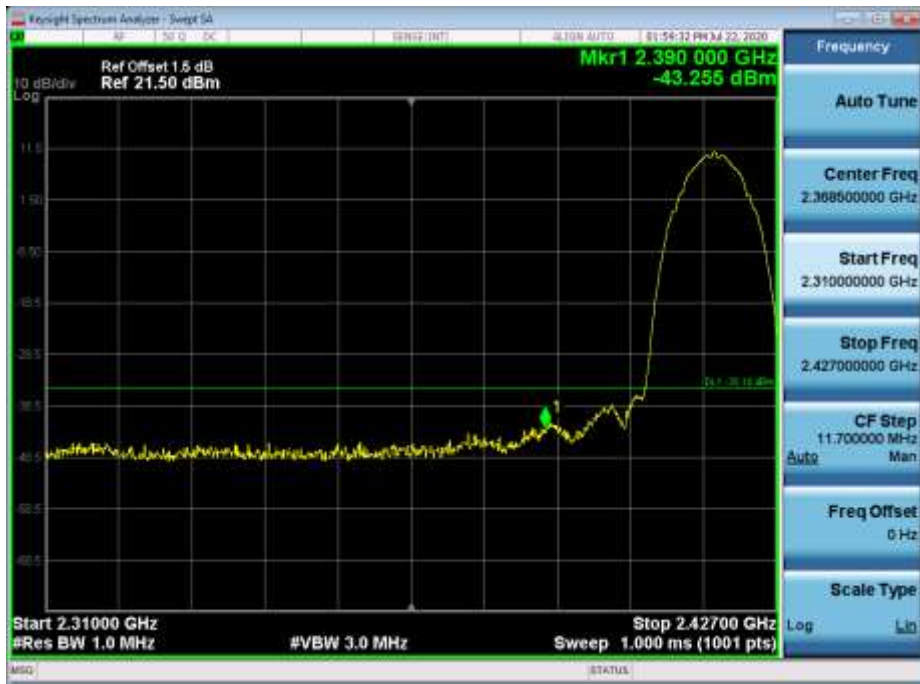


PK Limit-CDD:

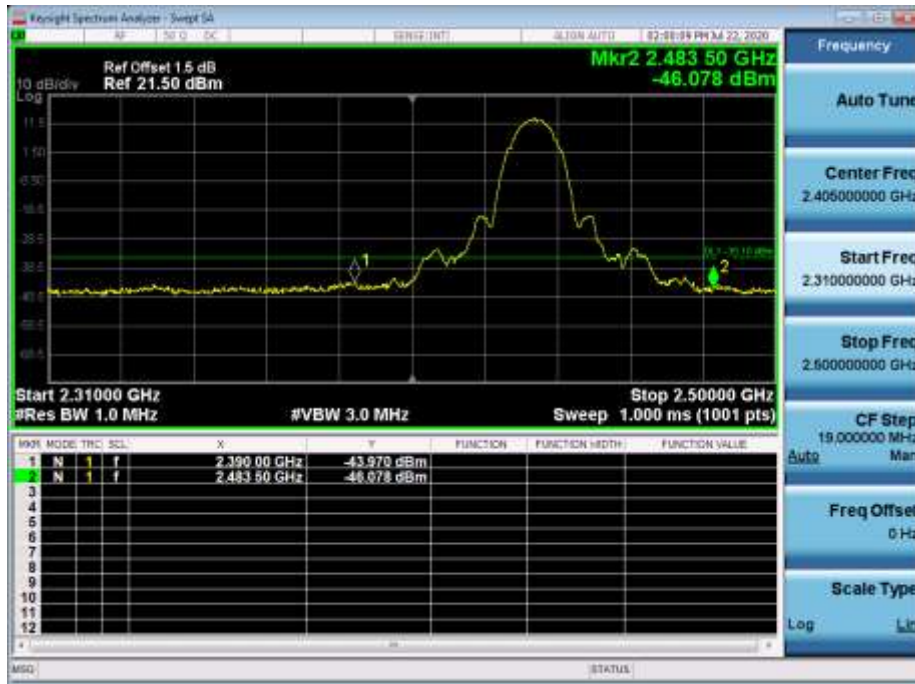
2412MHz by 802.11b:



2417MHz by 802.11b:



2437MHz by 802.11b:



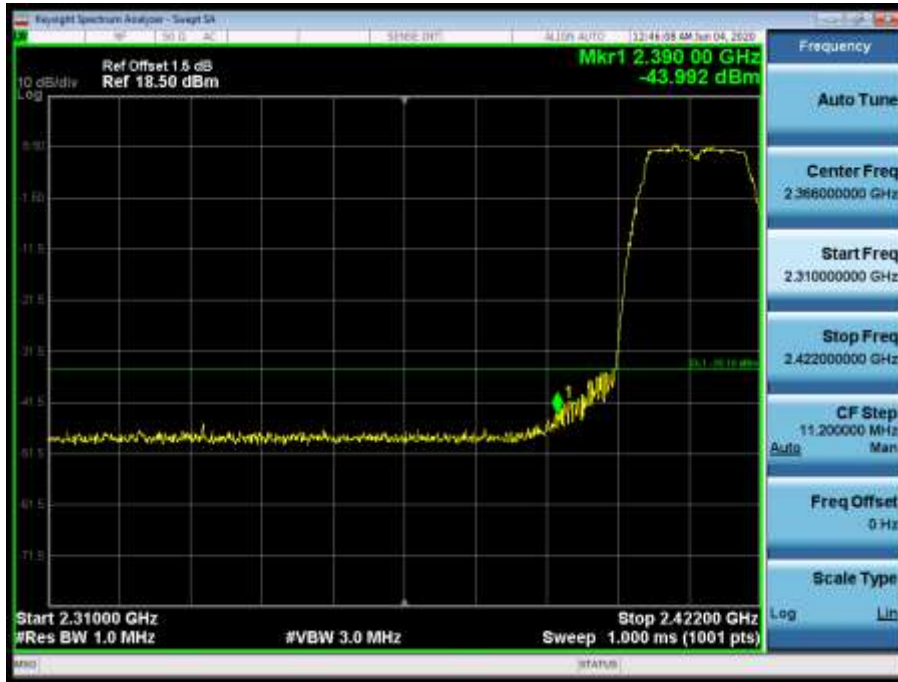
2457MHz by 802.11b:



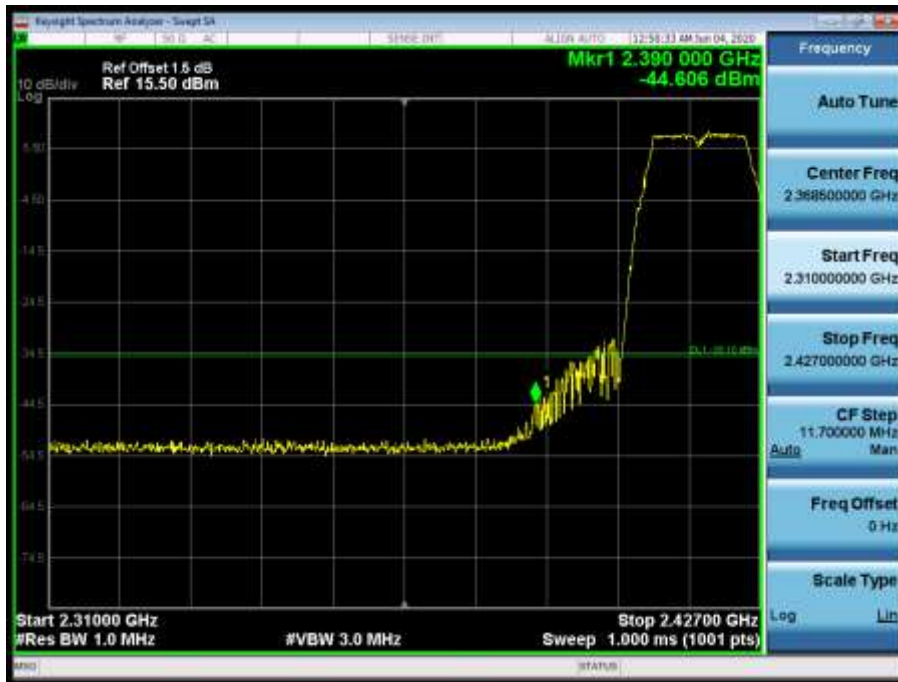
2462MHz by 802.11b:



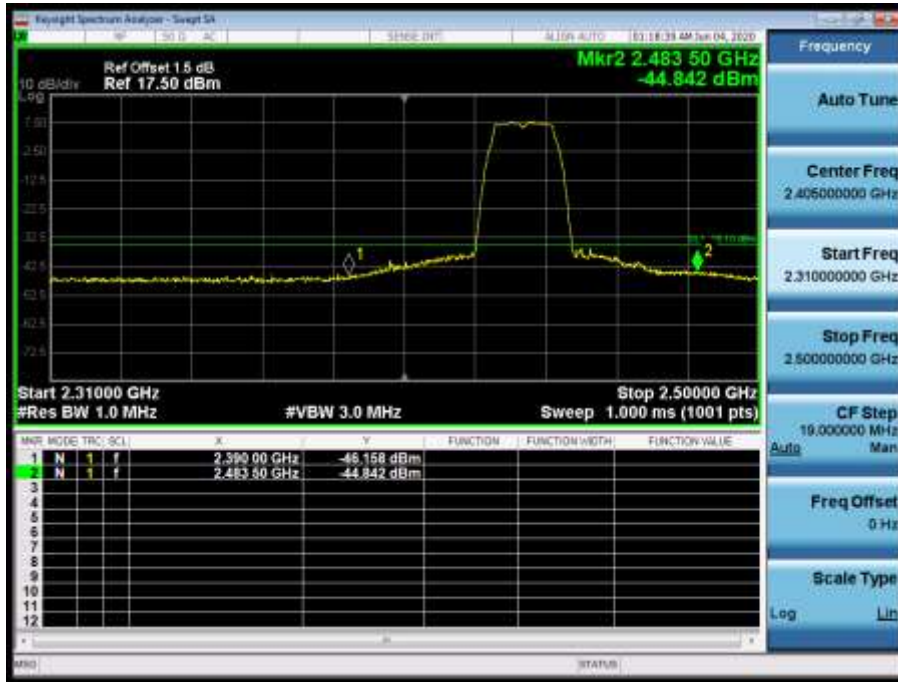
2412MHz by 802.11g:



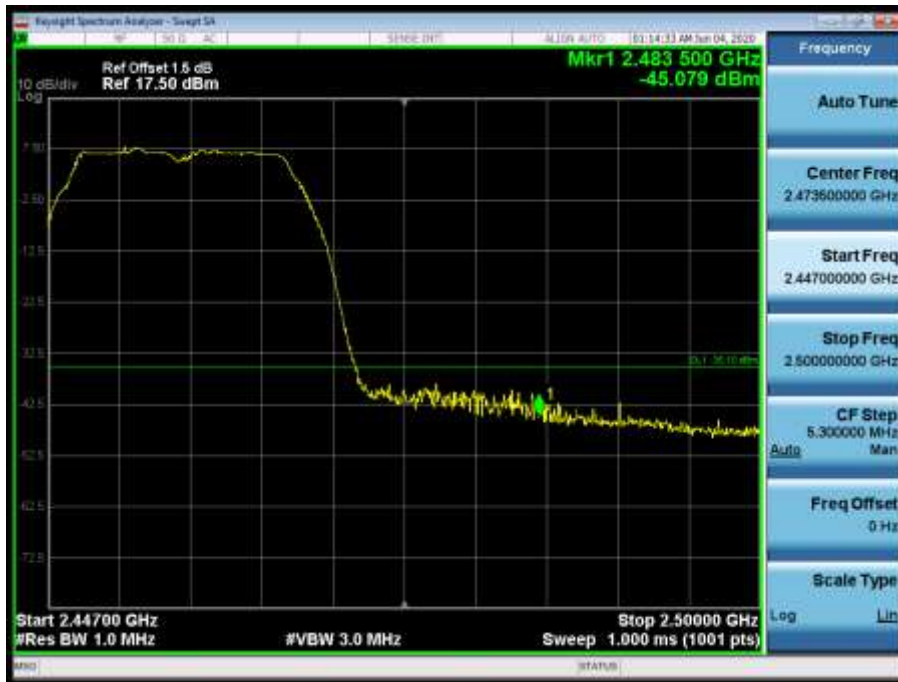
2417MHz by 802.11g:



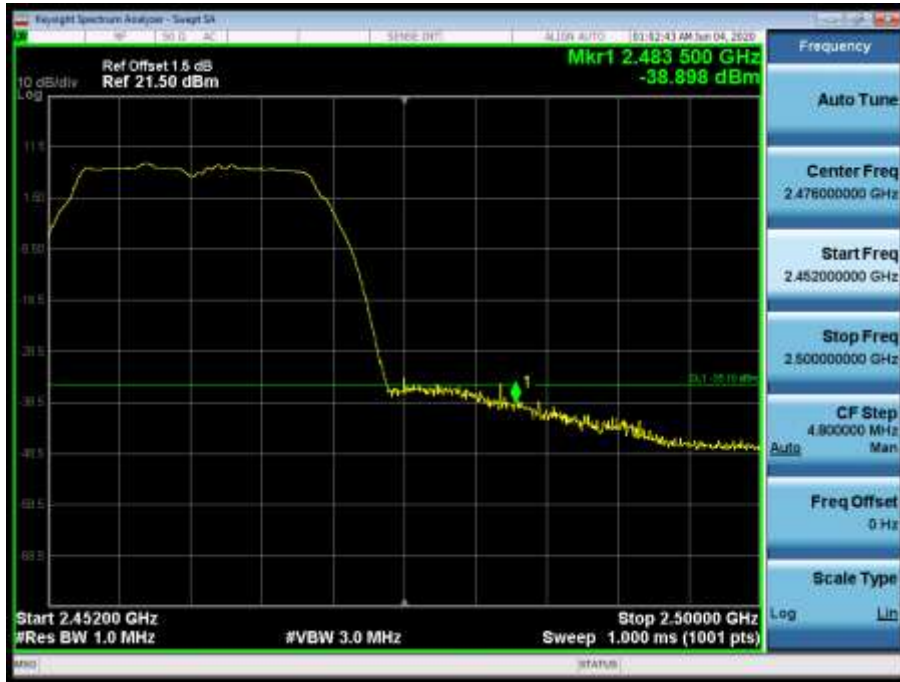
2437MHz by 802.11g:



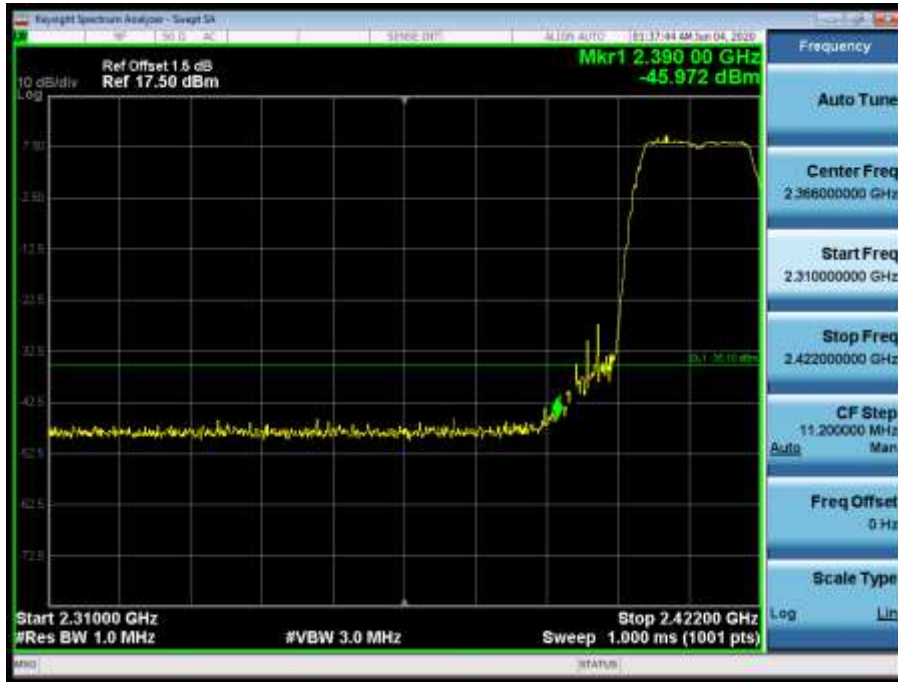
2457MHz by 802.11g:



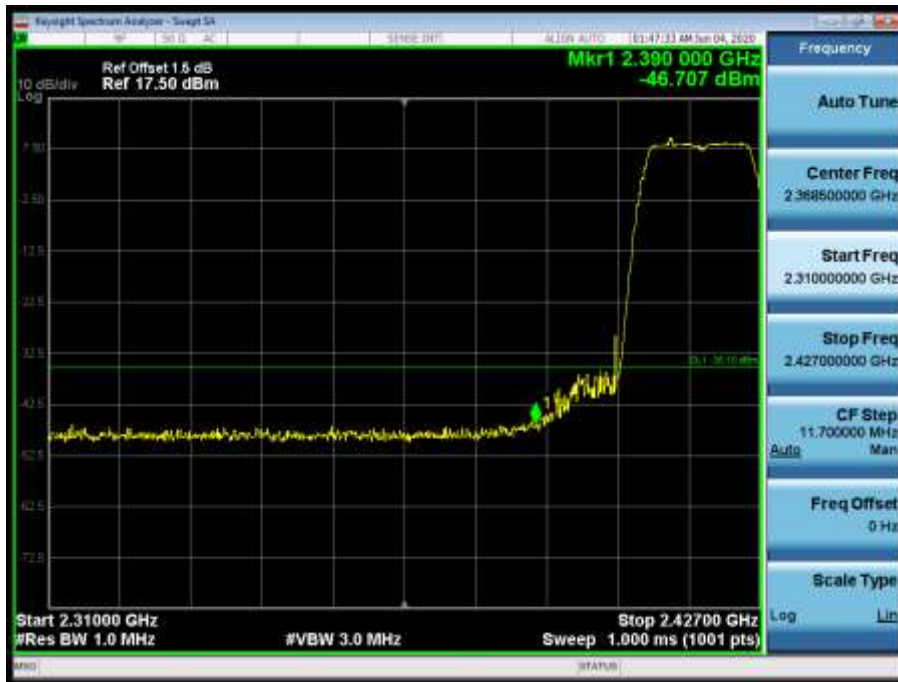
2462MHz by 802.11g:



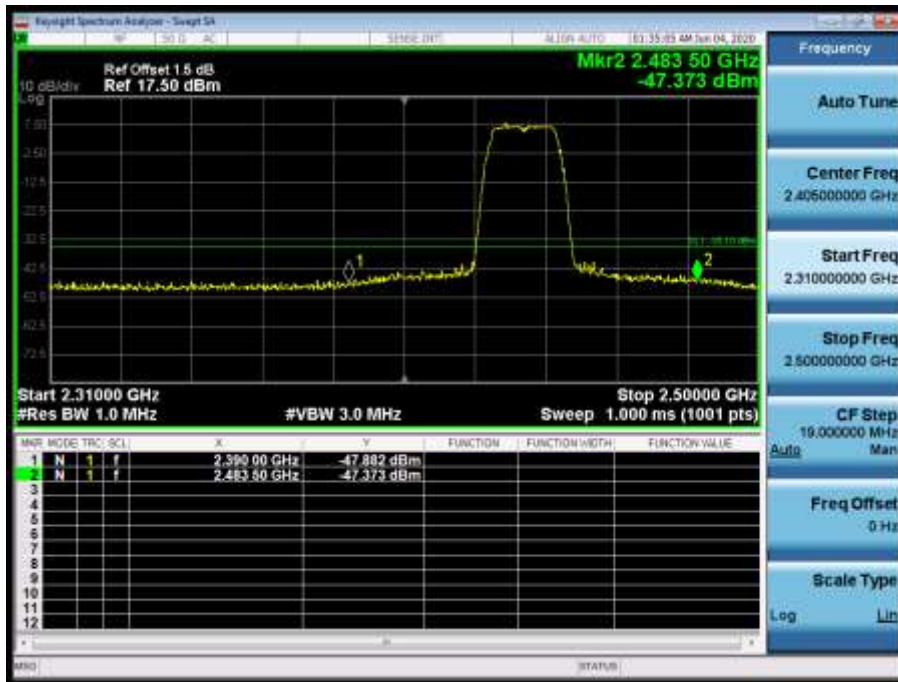
2412MHz by 802.11n(20MHz):



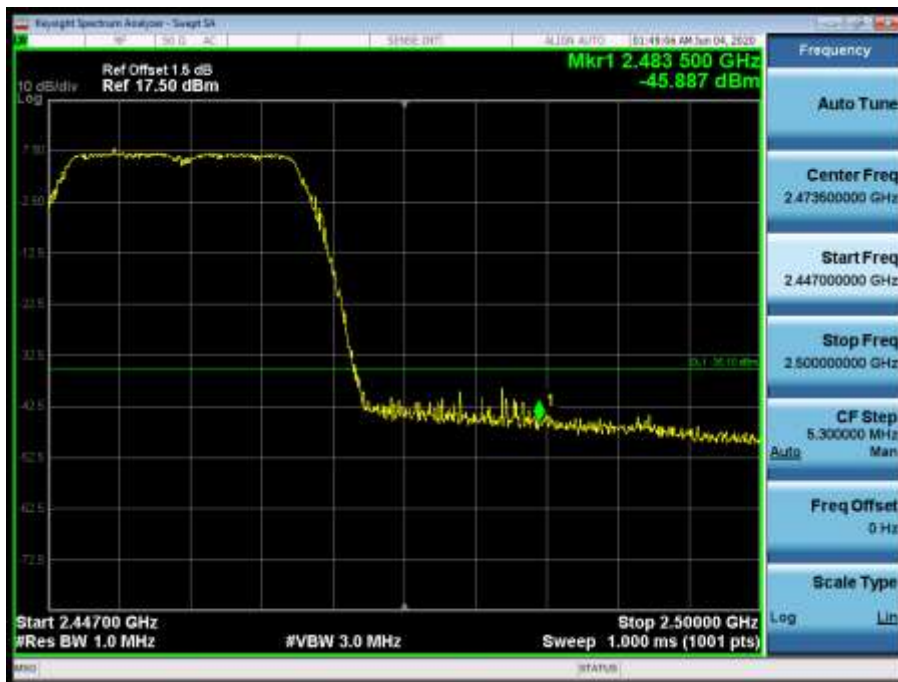
2417MHz by 802.11n(20MHz):



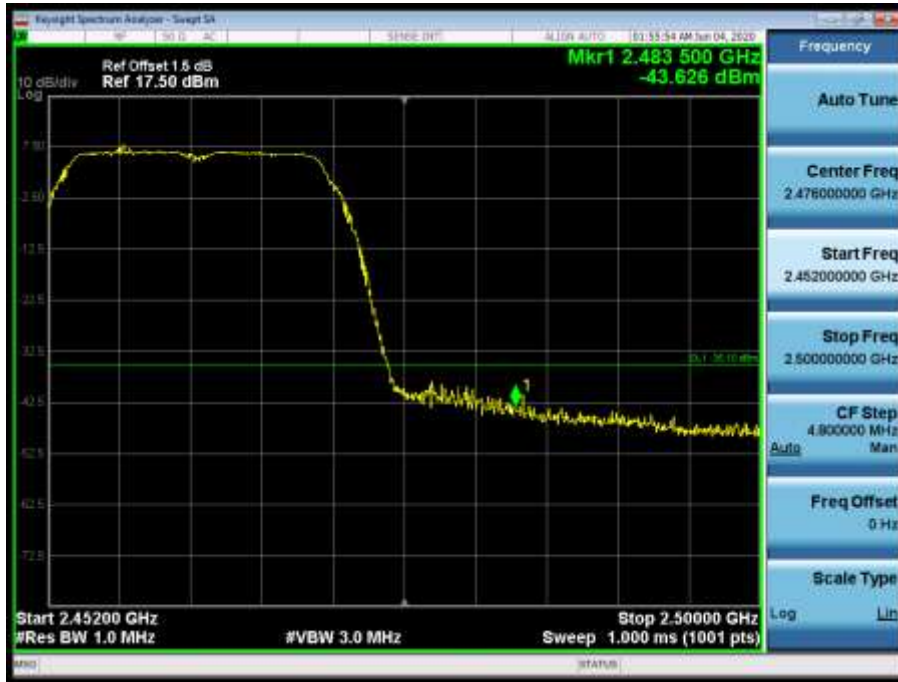
2437MHz by 802.11n(20MHz):



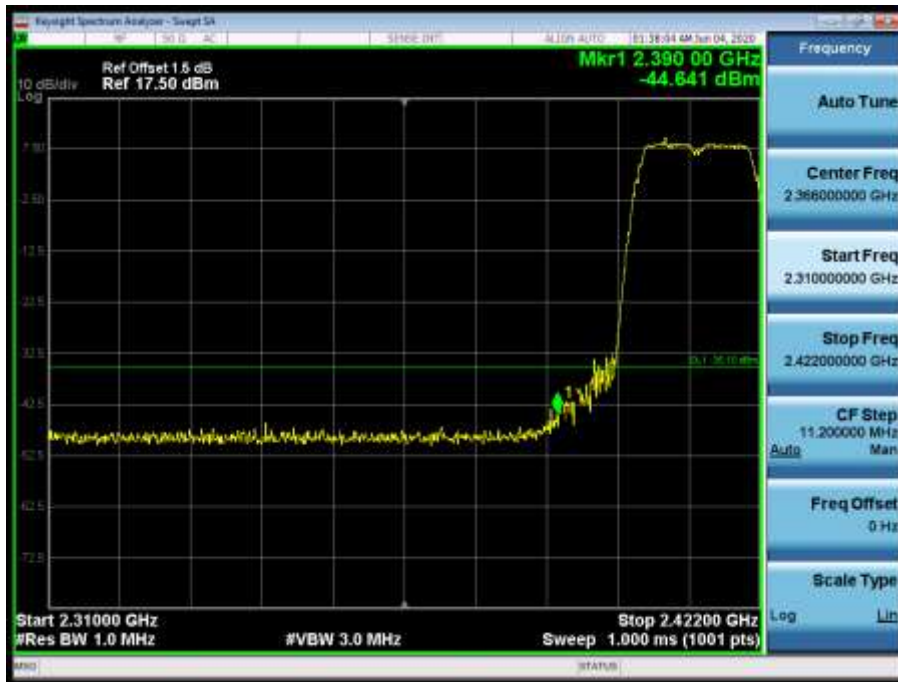
2457MHz by 802.11n(20MHz):



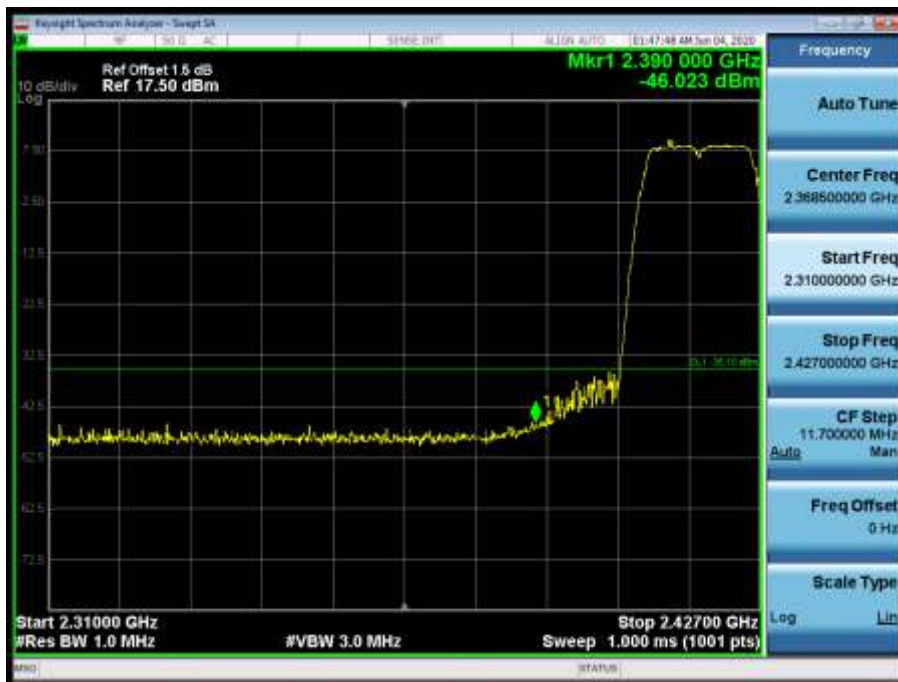
2462MHz by 802.11n(20MHz):



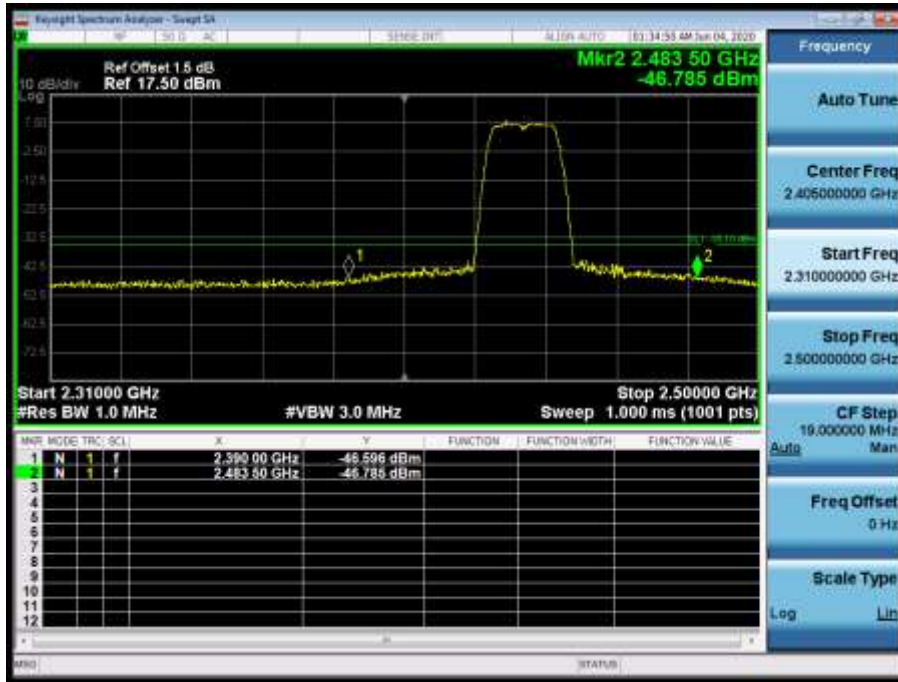
2412MHz by 802.11ax(20MHz):



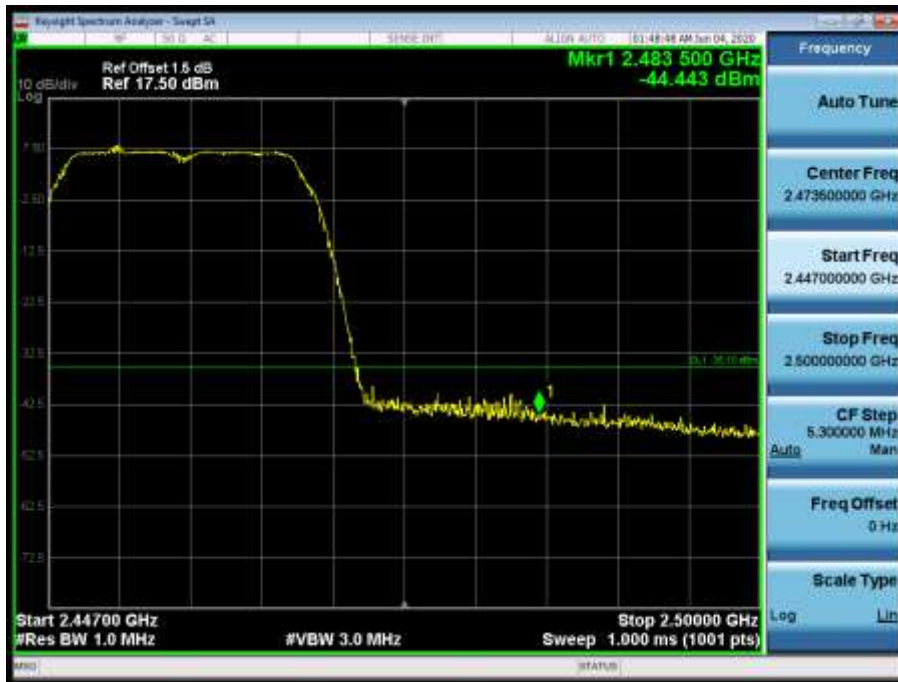
2417MHz by 802.11ax(20MHz):



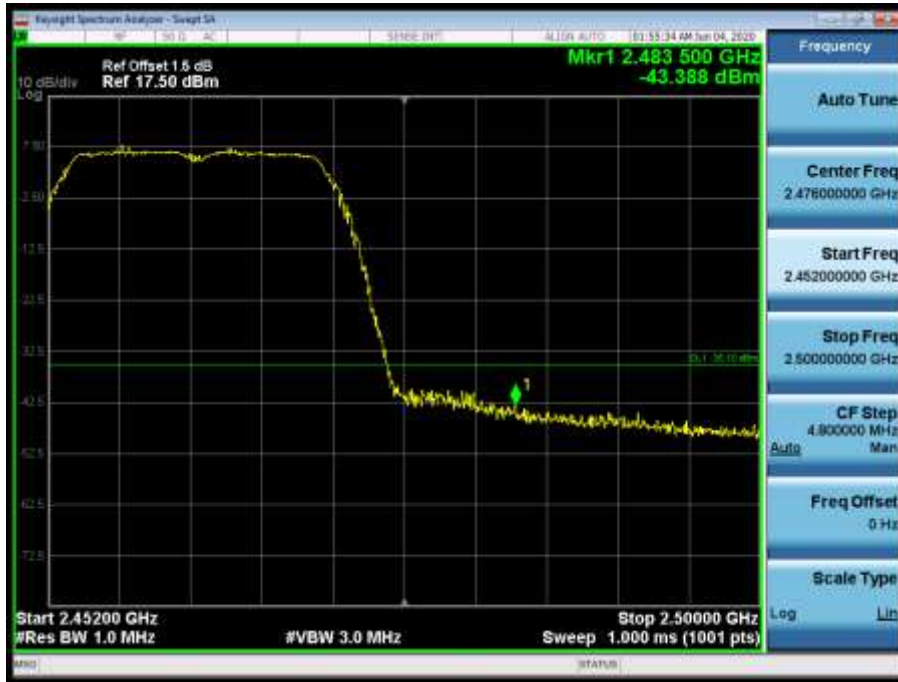
2437MHz by 802.11ax(20MHz):



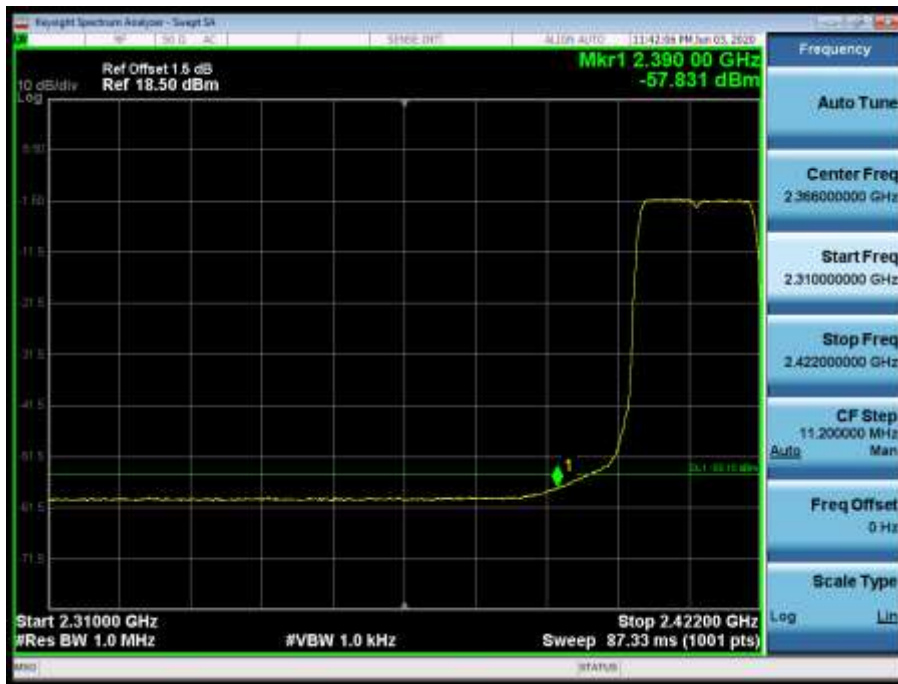
2457MHz by 802.11ax(20MHz):



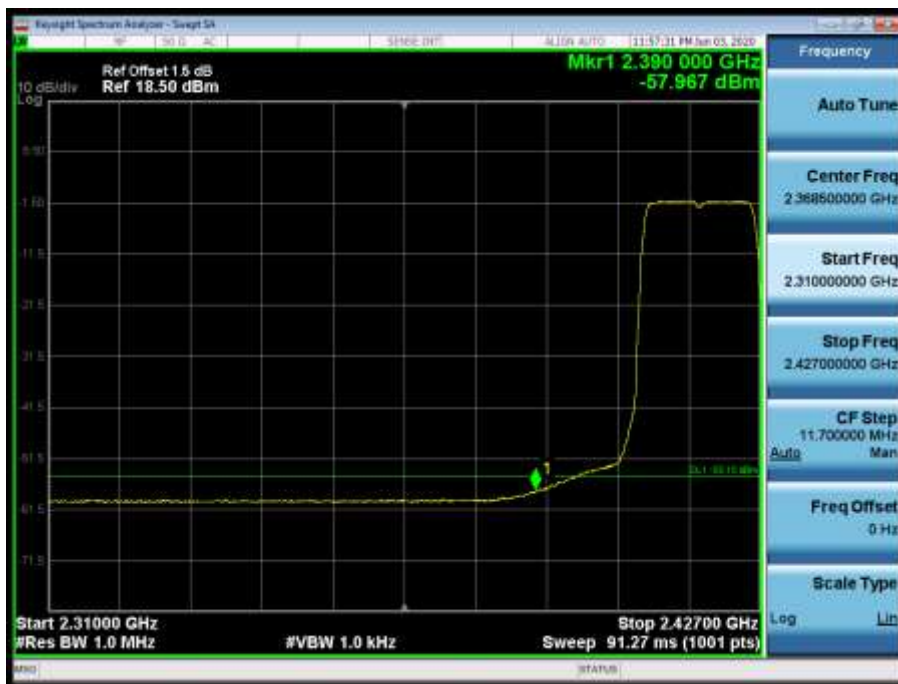
2462MHz by 802.11ax(20MHz):



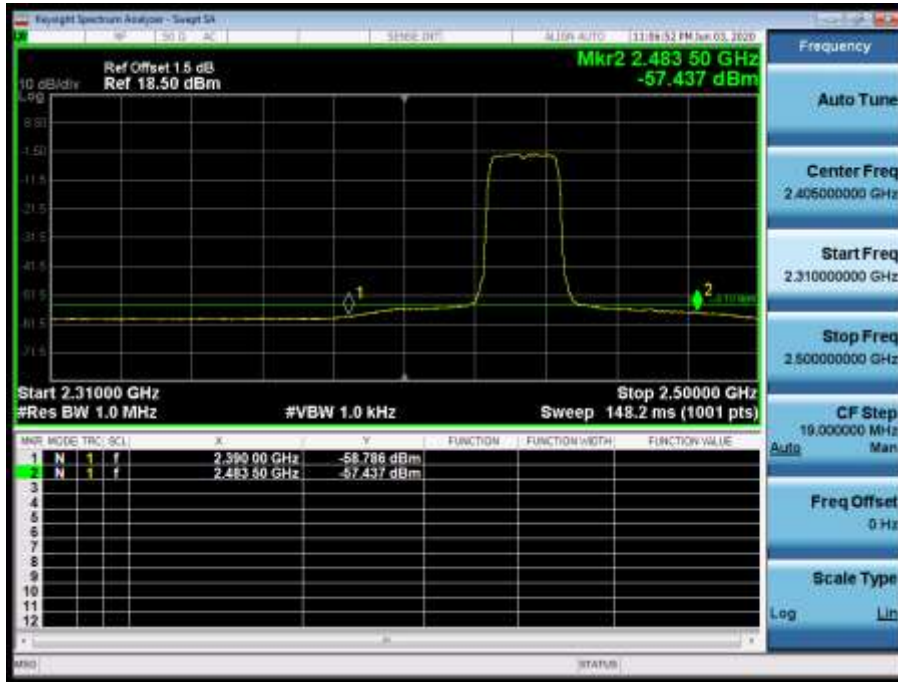
**AV Limit-Beamforming:
2412MHz by 802.11n(20MHz):**



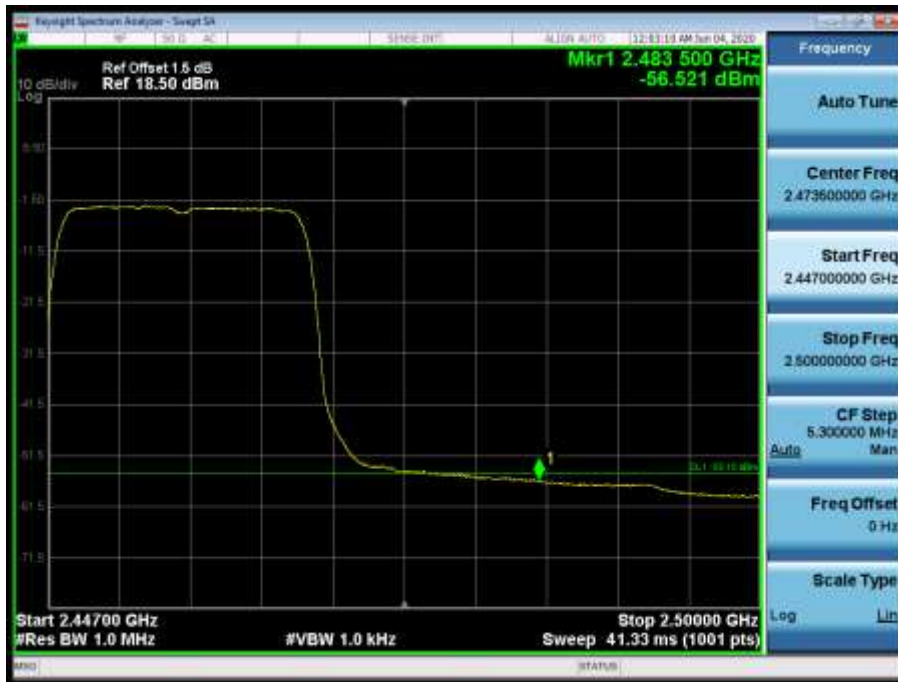
2417MHz by 802.11n(20MHz):



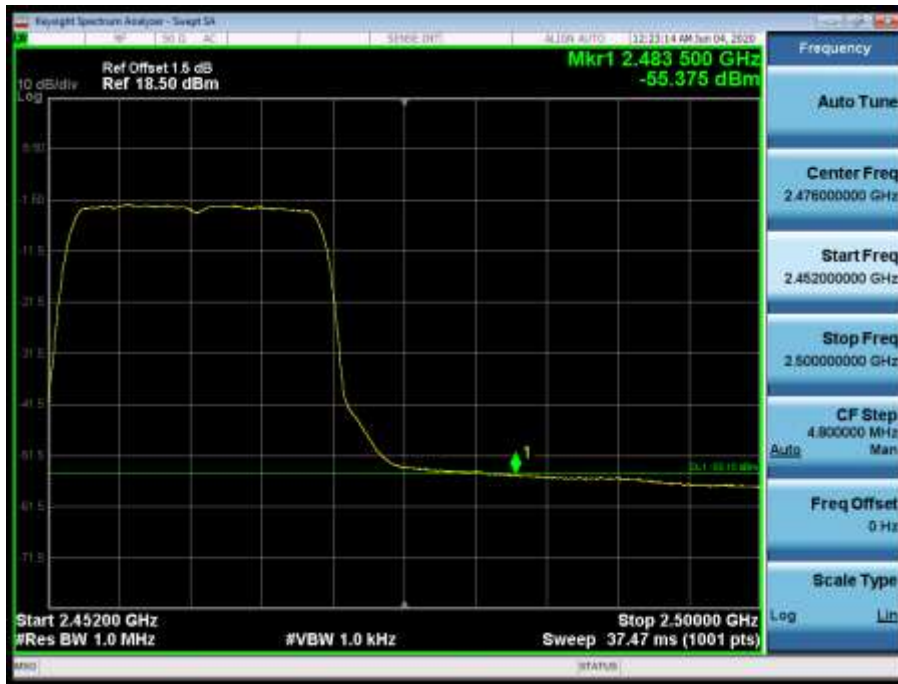
2437MHz by 802.11n(20MHz):



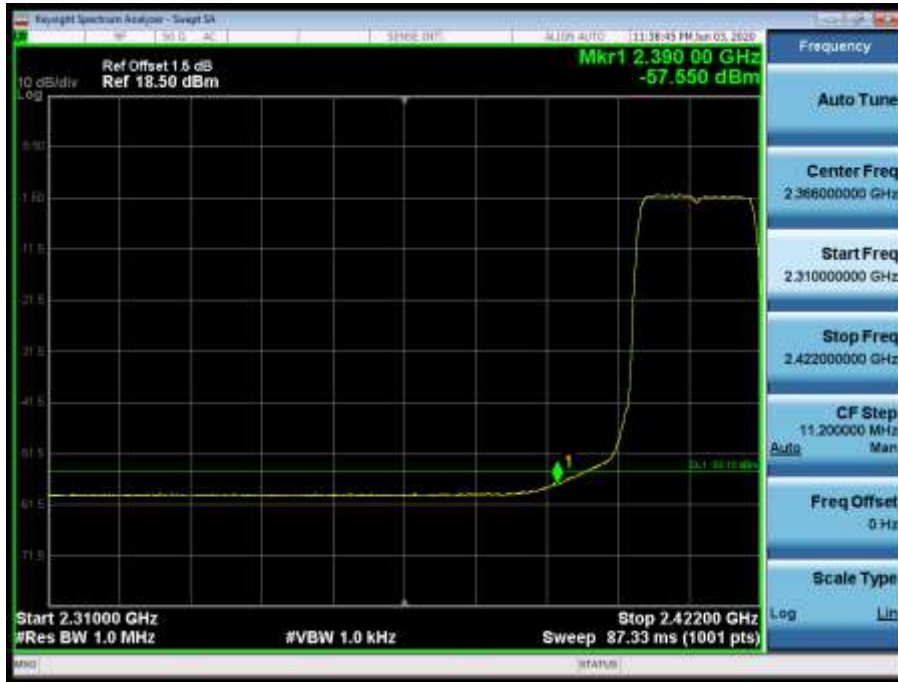
2457MHz by 802.11n(20MHz):



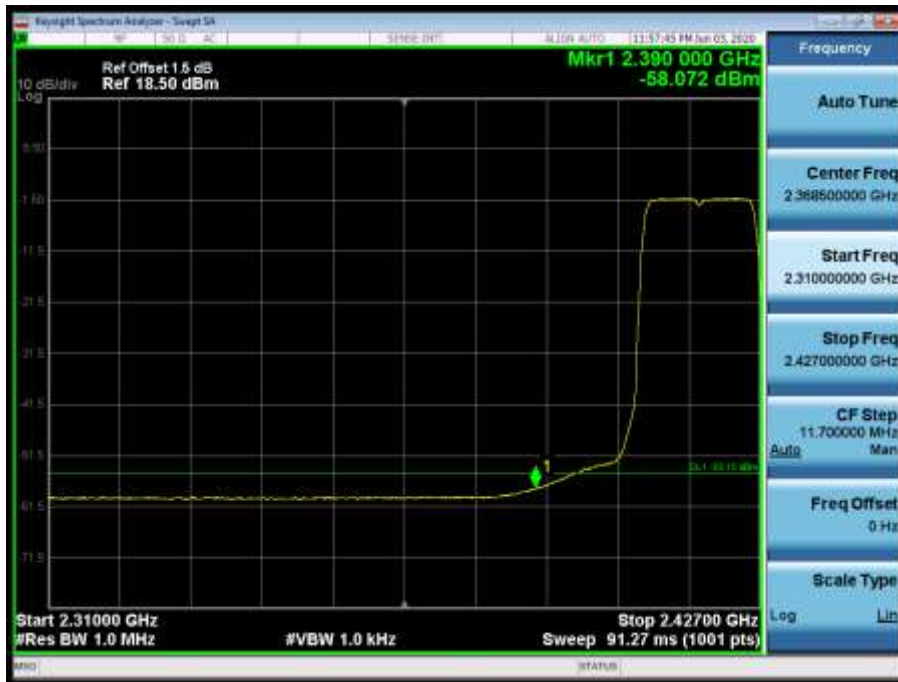
2462MHz by 802.11n(20MHz):



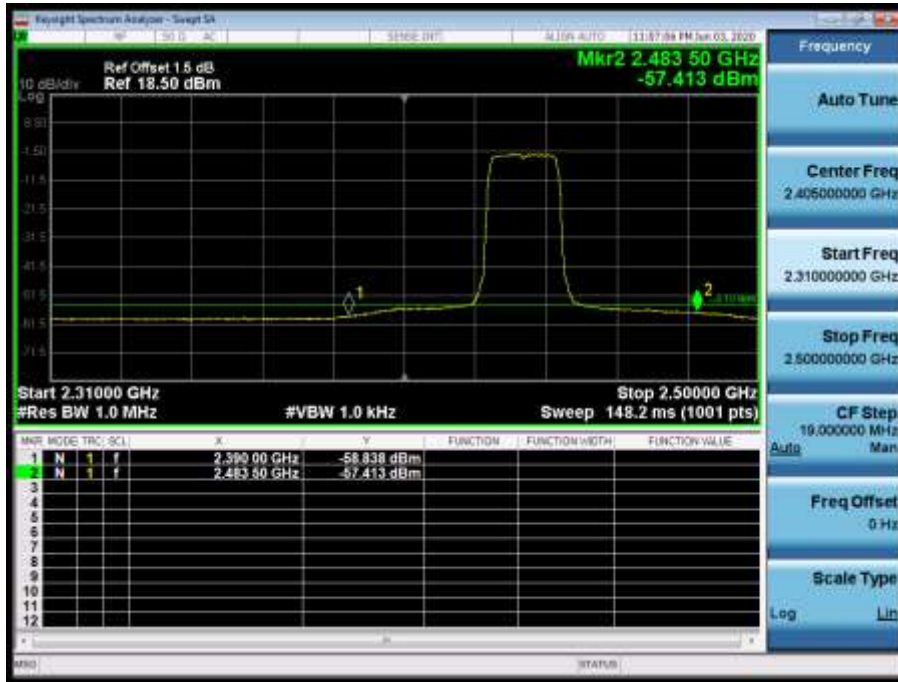
2412MHz by 802.11ax(20MHz):



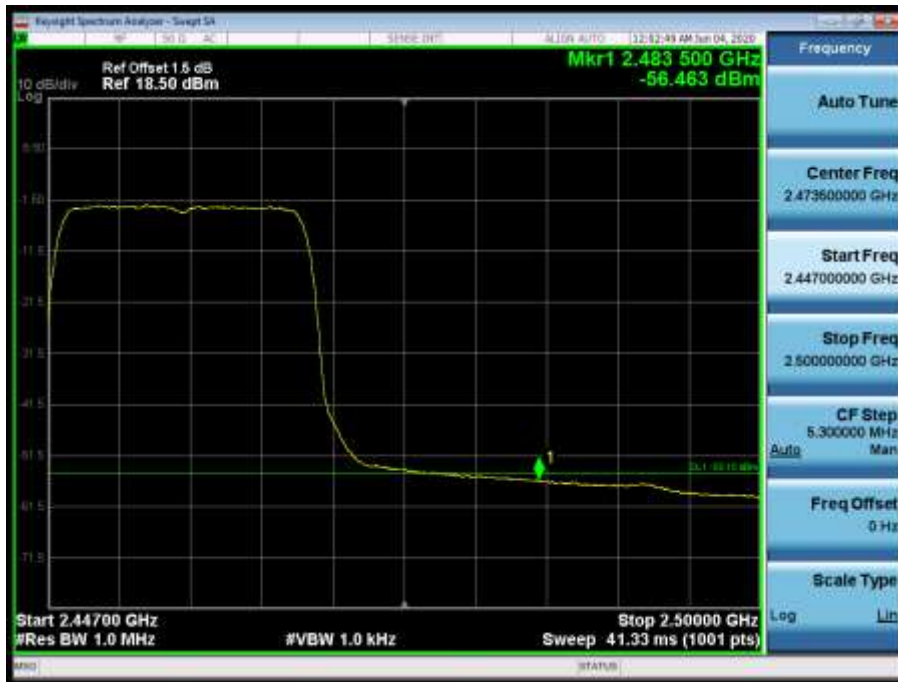
2417MHz by 802.11ax(20MHz):



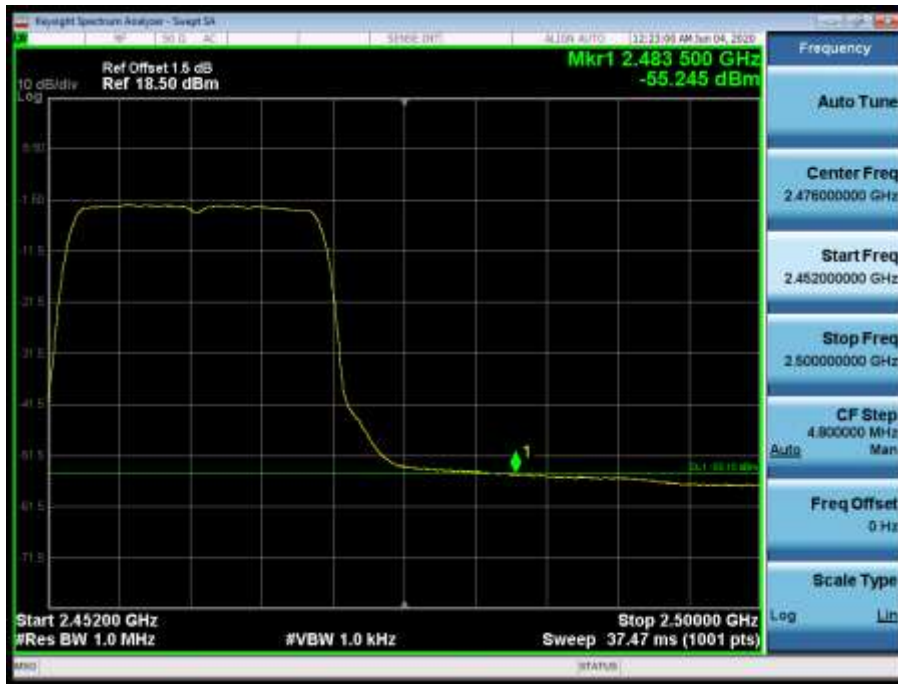
2437MHz by 802.11ax(20MHz):



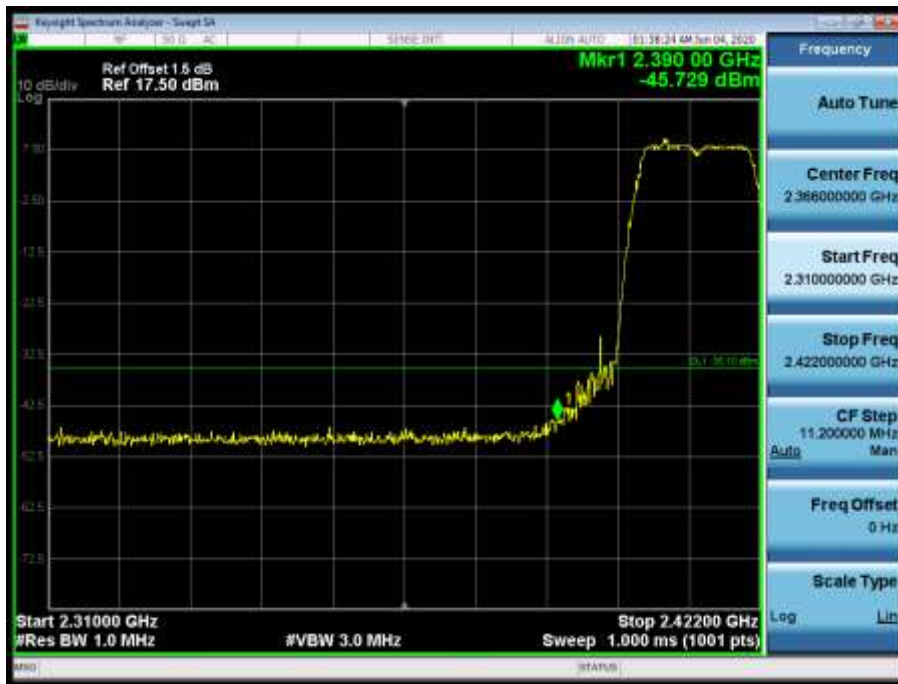
2457MHz by 802.11ax(20MHz):



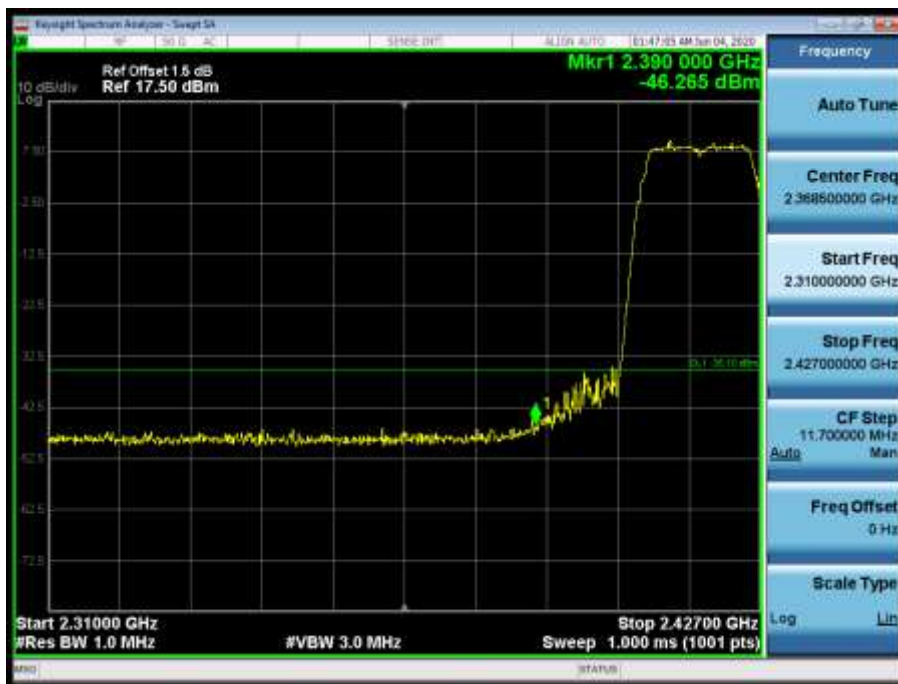
2462MHz by 802.11ax(20MHz):



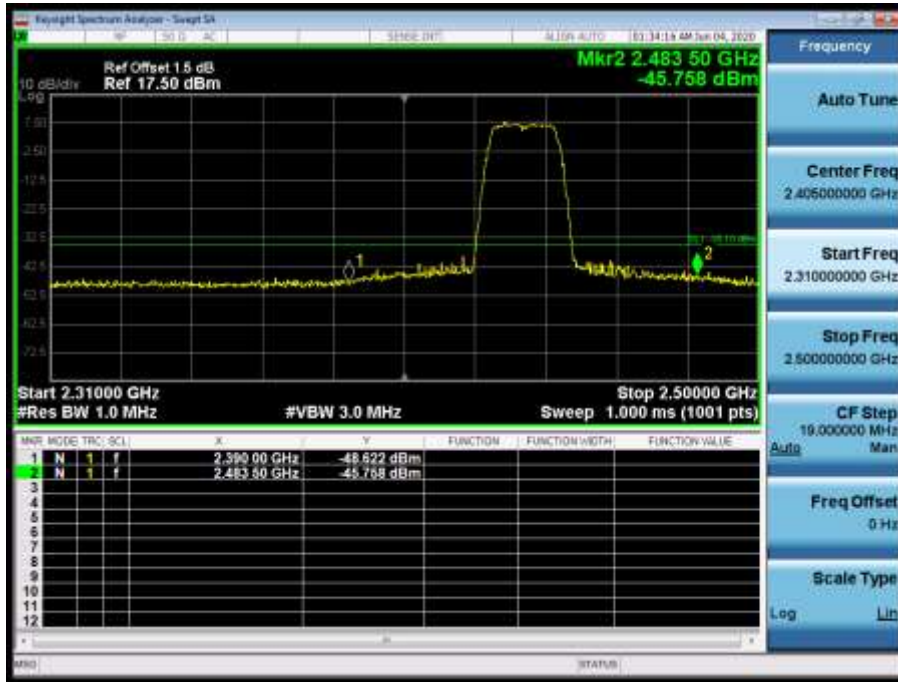
PK Limit-Beamforming
2412MHz by 802.11n(20MHz):



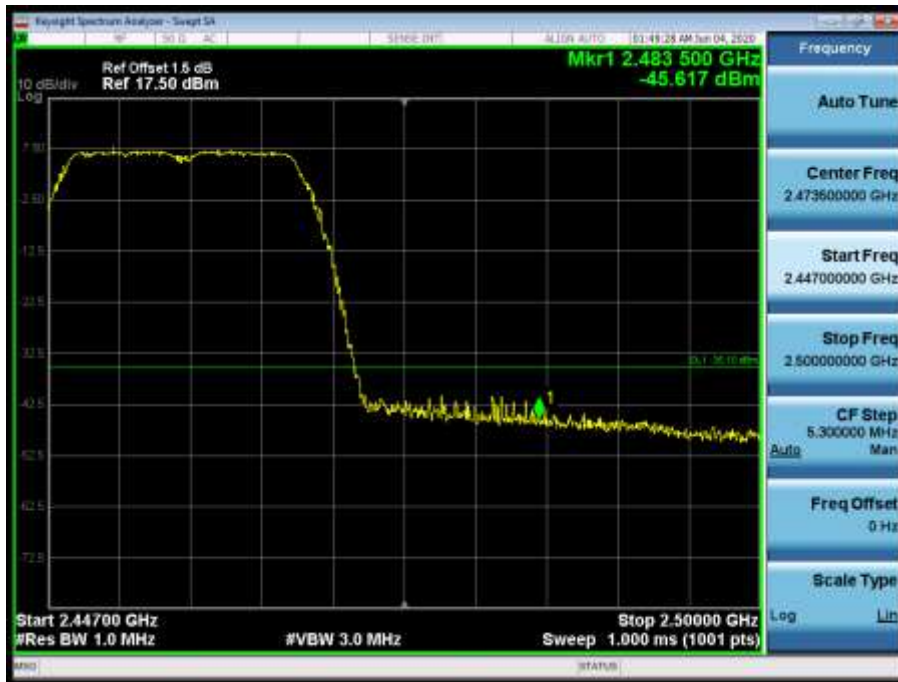
2417MHz by 802.11n(20MHz):



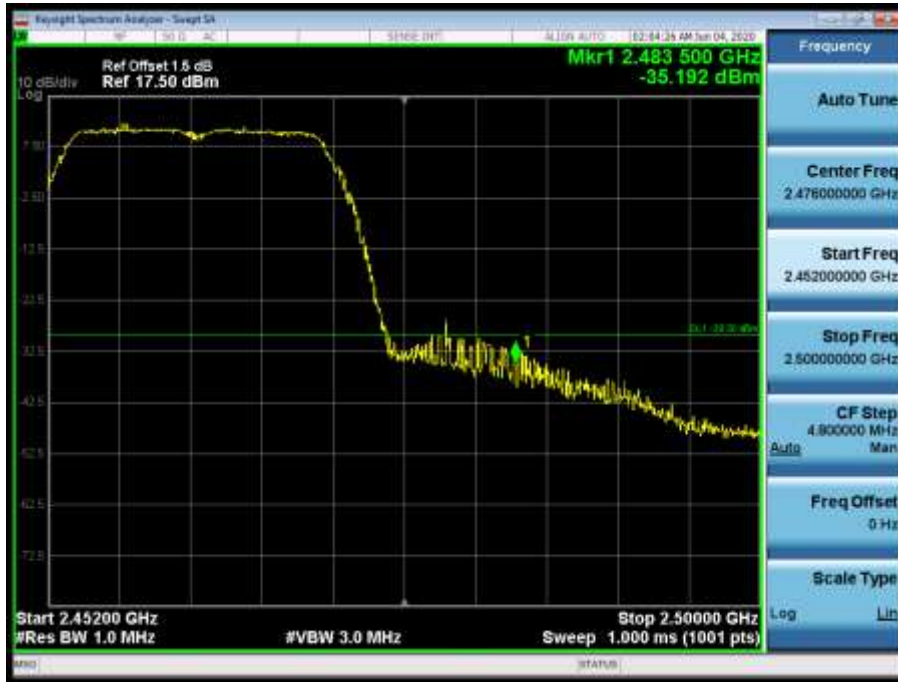
2437MHz by 802.11n(20MHz):



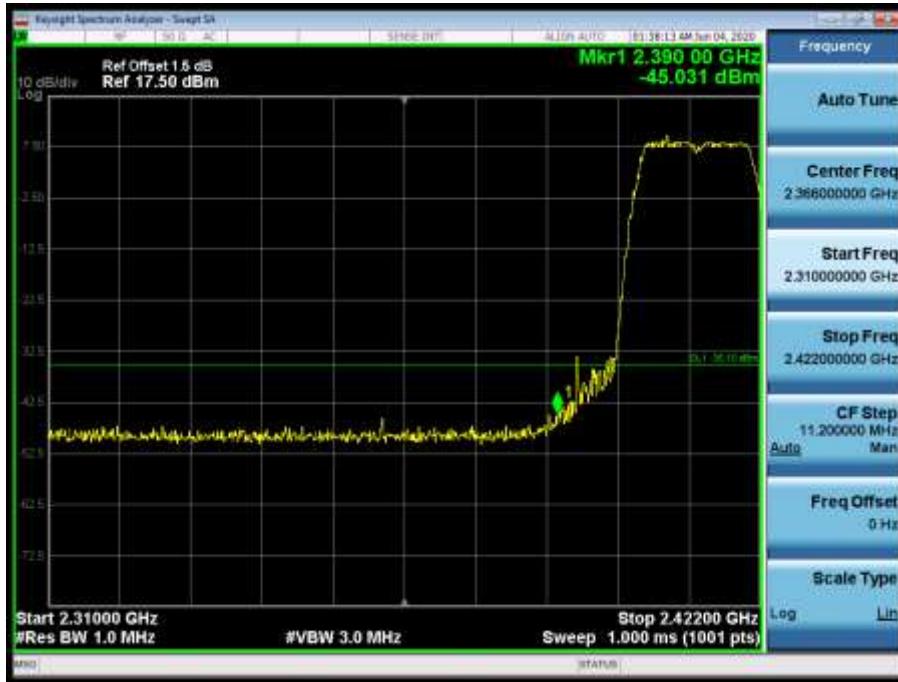
2457MHz by 802.11n(20MHz):



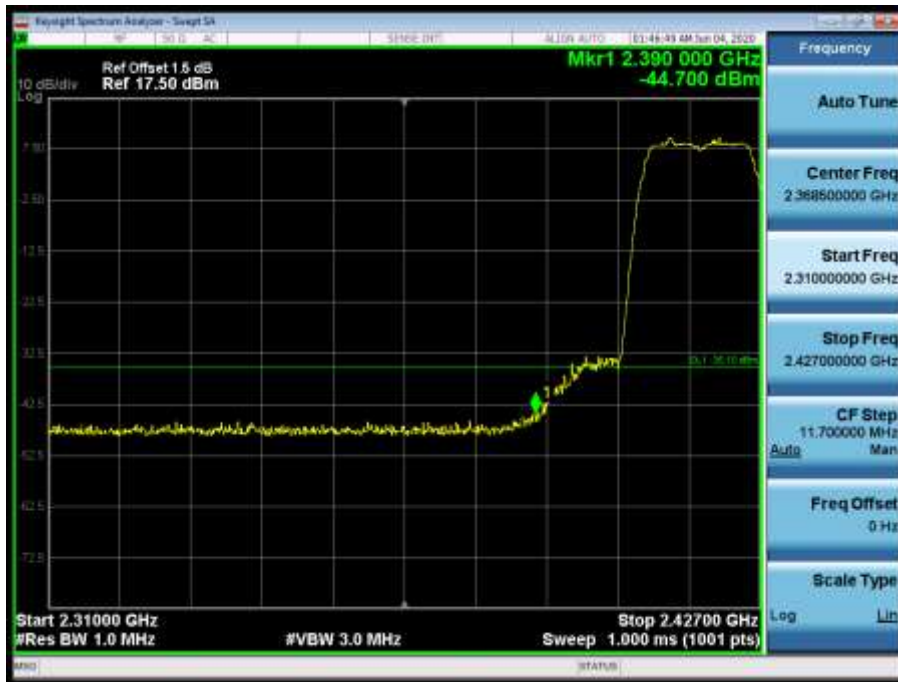
2462MHz by 802.11n(20MHz):



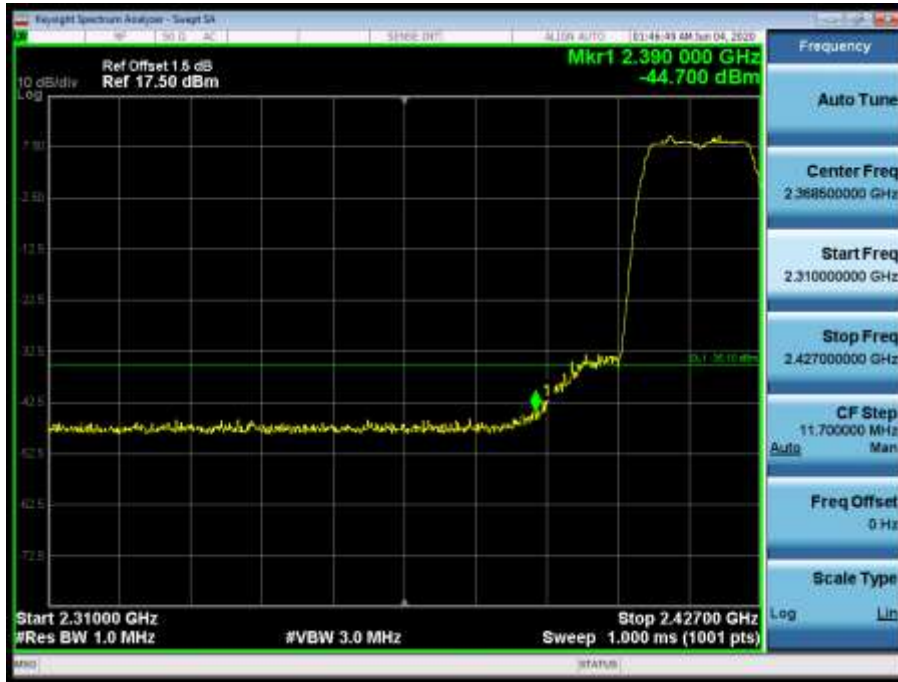
2412MHz by 802.11ax(20MHz):



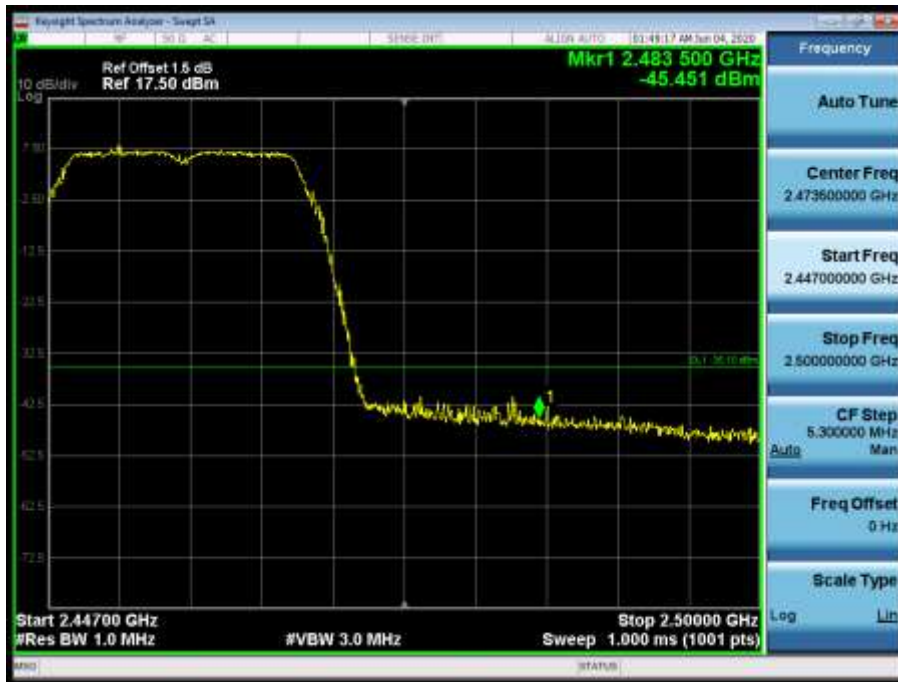
2417MHz by 802.11ax(20MHz):



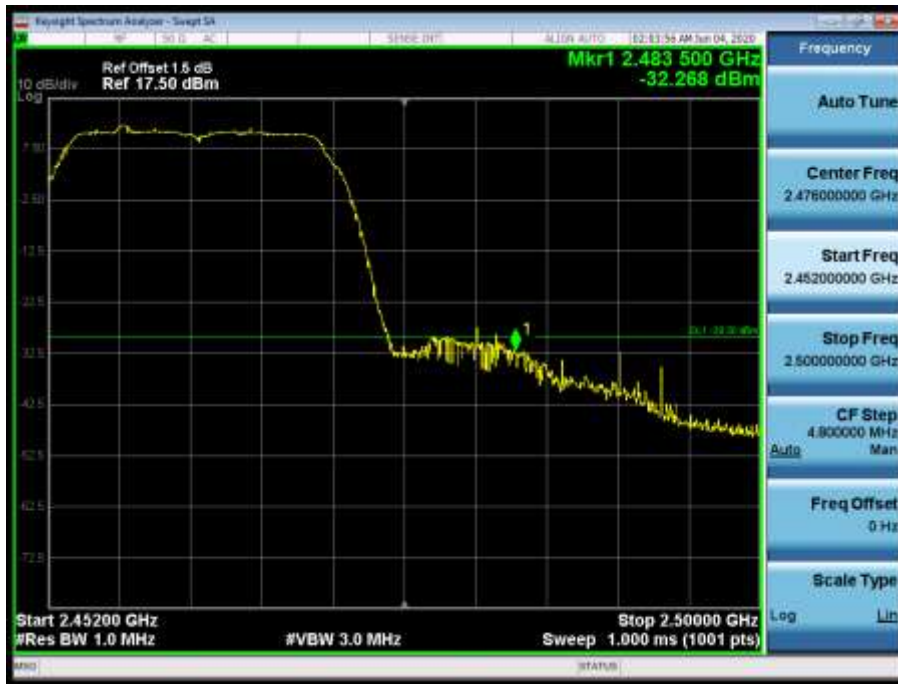
2437MHz by 802.11ax(20MHz):



2457MHz by 802.11ax(20MHz):



2462MHz by 802.11ax(20MHz):



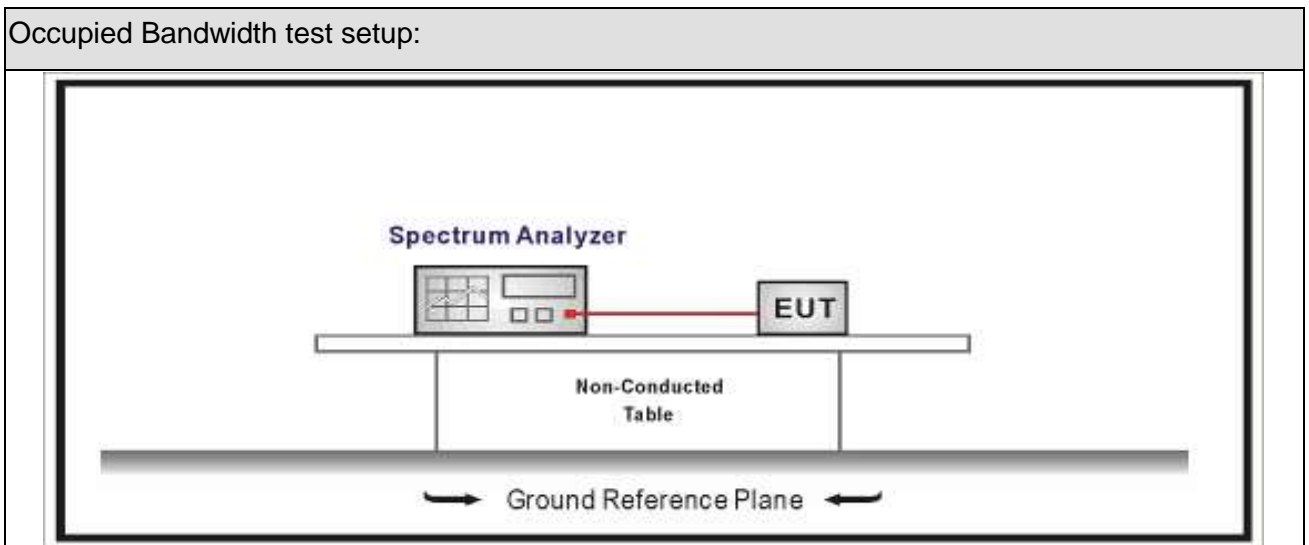
7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.09.28	2020.09.27
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2019.08.30	2020.08.29
Temperature/Humidity Meter	Zhichen	ZC1-2	TR8-TH	2019.09.02	2020.09.01

Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



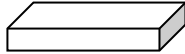
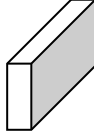
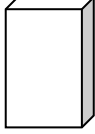
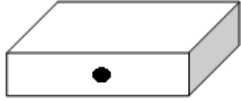


7.3. Limit

Occupied Bandwidth
Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

7.4. Test Procedure

Test Method			
	Reference Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.8	DTS bandwidth
<input type="checkbox"/>	ANSI C63.10	11.8.1	Option 1
<input checked="" type="checkbox"/>	ANSI C63.10	11.8.2	Option 2

7.5. EUT test definition

Item	Occupied Bandwidth			
Device Category	<input type="checkbox"/>	Fixed point-to-point		
	<input type="checkbox"/>	Emit multiple directional beams, simultaneously or sequentially		
	<input checked="" type="checkbox"/>	Other cases		
Test mode	Mode 1~4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

7.6. Test Result

Product Name	: Wireless Access Point	Power	: AC 120V/60Hz
Test Mode	: Mode 1~4	Test Site	: TR8
Test Date	: 2019.11.19	Test Engineer	: Eric

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	01	2412	13.265	7.583	>500	Pass
1	06	2437	13.569	7.555	>500	Pass
1	11	2462	13.583	7.087	>500	Pass
2	01	2412	17.551	16.35	>500	Pass
2	06	2437	17.439	16.39	>500	Pass
2	11	2462	17.393	16.39	>500	Pass
3	01	2412	18.517	17.57	>500	Pass
3	06	2437	18.539	17.64	>500	Pass
3	11	2462	18.446	17.59	>500	Pass
4	01	2412	19.193	18.83	>500	Pass
4	06	2437	19.194	19.02	>500	Pass
4	11	2462	19.171	18.97	>500	Pass

Note : The worst case of Occupied Bandwidth as below in next page:

Mode 1 CH11 (2462MHz)



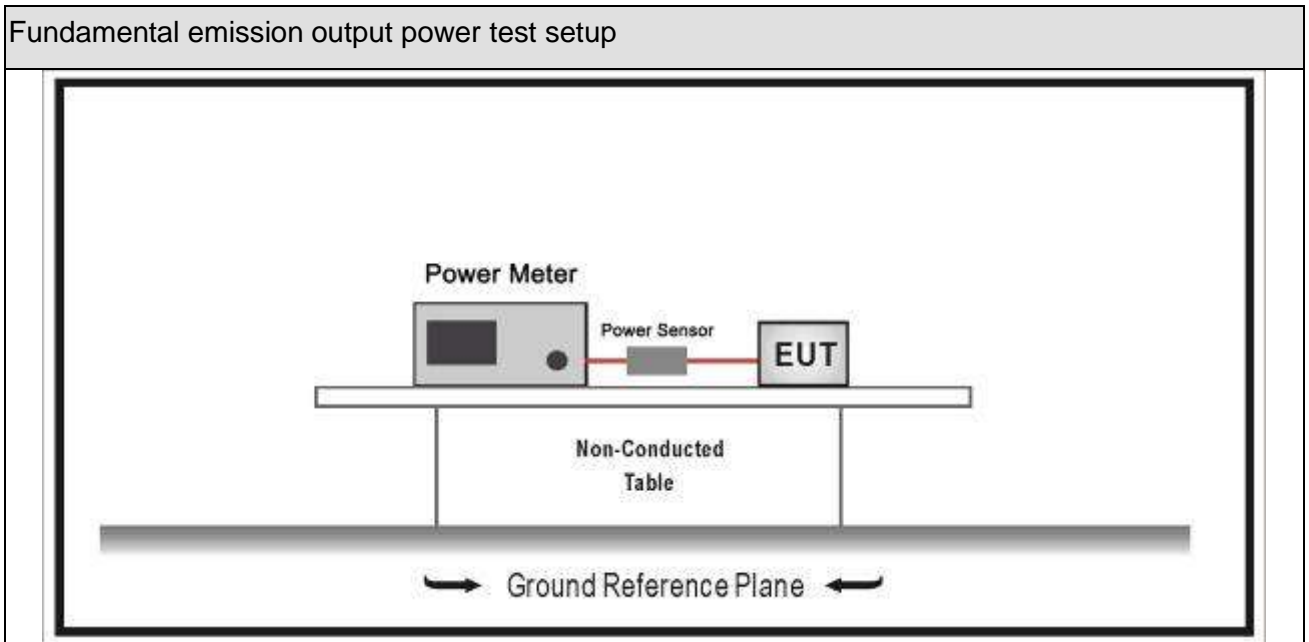
8. Fundamental emission output power

8.1. Test Equipment

Fundamental Emission output power / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.09.28	2020.09.27
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2019.08.30	2020.08.29
Wideband Peak Power Meter	Anritsu	ML2495A	1613005	2019.10.28	2020.10.27
Power Sensor	Anritsu	MA2411B	1531092	2019.10.14	2020.10.13
Temperature/Humidity Meter	Zhichen	ZC1-2	TR8-TH	2019.09.02	2020.09.01

Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup



8.3. Limit

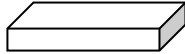
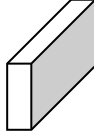
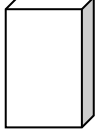



Fundamental emission output power Limit		
<input checked="" type="checkbox"/>	$G_{TX} < 6\text{dBi}$	$P_{out} \leq 30\text{dBm}$
<input checked="" type="checkbox"/>	$G_{TX} > 6\text{dBi}$	
<input checked="" type="checkbox"/>	Non-Fix point-point	$P_{out} \leq 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Fix point-point	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	Point-to-multipoint	$P_{out} \leq 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Overlap Beams	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	Aggregate power transmitted simultaneously on all beams	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	single directional beam	$P_{out} \leq 30 - [(G_{TX} - 6)]/3 + 8\text{dB}$
Note 1 : G_{TX} directional gain of transmitting antennas.		
Note 2 : P_{out} is maximum peak conducted output power .		

8.4. Test Procedure

Fundamental emission output power Test Method					
	References Rule		Chapter	Description	
<input checked="" type="checkbox"/>	ANSI C63.10		11.9	Fundamental emission output power	
<input type="checkbox"/>	ANSI C63.10		11.9.1	Maximum peak conducted output power	
	<input type="checkbox"/>	ANSI C63.10	11.9.1.1	RBW \geq DTS bandwidth	
	<input type="checkbox"/>	ANSI C63.10	11.9.1.2	Integrated band power method	
	<input type="checkbox"/>	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method	
<input checked="" type="checkbox"/>	ANSI C63.10		11.9.2	Maximum conducted (average) output power	
	<input type="checkbox"/>	ANSI C63.10		11.9.2.2	Measurement using a spectrum analyzer (SA)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle \geq 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle \geq 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle \leq 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle \leq 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-3	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A	
	<input checked="" type="checkbox"/>	ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.2.3.1	Method AVGPM	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.3.2	Method AVGPM-G	

Directional Gain Calculations for In-Band test method			
	References Rule	Chapter	Description
<input type="checkbox"/>	KDB 662911	F2)a)	Basic methodology
	<input type="checkbox"/> KDB 662911	F2)a) (i)	transmit signals are correlated
	<input type="checkbox"/> KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
<input type="checkbox"/>	KDB 662911	F2)b)	Sectorized antenna systems.
<input type="checkbox"/>	KDB 662911	F2)c)	Cross-polarized antennas
	<input type="checkbox"/> ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	<input type="checkbox"/> ANSI C63.10	F2)c) (ii)	Multiple antennas
<input checked="" type="checkbox"/>	KDB 662911	F2)e)	Spatial Multiplexing
	<input type="checkbox"/> KDB 662911	F2)e) (i)	Antennas have the same gain
	<input type="checkbox"/> KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	<input checked="" type="checkbox"/> KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
<input checked="" type="checkbox"/>	KDB 662911	F2)f)	Cyclic Delay Diversity (CDD)
	<input type="checkbox"/> KDB 662911	F2)f) (i)	Antennas have the same gain
	<input type="checkbox"/> KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	<input checked="" type="checkbox"/> KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

8.5. EUT test definition

Item	Fundamental emission output power			
Device Category	<input type="checkbox"/>	Fixed point-to-point		
	<input type="checkbox"/>	Emit multiple directional beams, simultaneously or sequentially		
	<input checked="" type="checkbox"/>	Other cases		
Test mode	Mode 1~4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

8.6. Test Result

Pass

The test data please refer to the files attached.

Appendix 1: 2.4GHz FCC&ISED RF output power

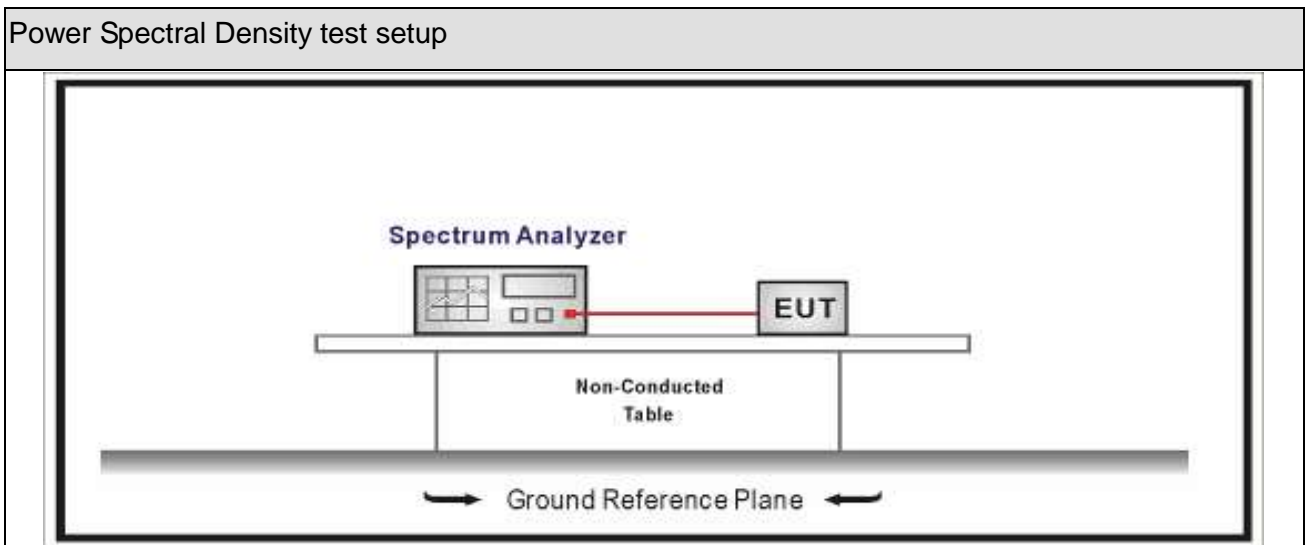
9. Power Spectral Density

9.1. Test Equipment

Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.09.28	2020.09.27
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2019.08.30	2020.08.29
Temperature/Humidity Meter	Zhichen	ZC1-2	TR8-TH	2019.09.02	2020.09.01

Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup



9.3. Limit

Power Spectral Density Limit

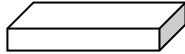
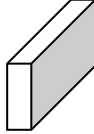
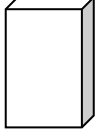



Power Spectral Density $\leq 8\text{dBm}/3\text{kHz}$

9.4. Test Procedure

Power Spectral Density Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.10	Maximum power spectral density level in the fundamental emission
<input checked="" type="checkbox"/>	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
<input type="checkbox"/>	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle \geq 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle \geq 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle $<$ 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle $<$ 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.7	Method AVGPSD-3
<input type="checkbox"/>	ANSI C63.10	11.10.8	Method AVGPSD-3A

Directional Gain Calculations for In-Band test method				
	Referred Rule		Chapter	Description
<input type="checkbox"/>	KDB 662911		F2)a)	Basic methodology
	<input type="checkbox"/>	KDB 662911	F2)a) (i)	transmit signals are correlated
	<input type="checkbox"/>	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
<input type="checkbox"/>	KDB 662911		F2)b)	Sectorized antenna systems.
<input type="checkbox"/>	KDB 662911		F2)c)	Cross-polarized antennas
	<input type="checkbox"/>	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	<input type="checkbox"/>	ANSI C63.10	F2)c) (ii)	Multiple antennas
<input checked="" type="checkbox"/>	KDB 662911		F2)e)	Spatial Multiplexing
	<input type="checkbox"/>	KDB 662911	F2)e) (i)	Antennas have the same gain
	<input type="checkbox"/>	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	<input checked="" type="checkbox"/>	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
<input checked="" type="checkbox"/>	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	<input type="checkbox"/>	KDB 662911	F2)f) (i)	Antennas have the same gain
	<input type="checkbox"/>	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	<input checked="" type="checkbox"/>	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

9.5. EUT test definition

Item	Power Spectral Density			
Device Category	<input type="checkbox"/>	Fixed point-to-point		
	<input type="checkbox"/>	Emit multiple directional beams, simultaneously or sequentially		
	<input checked="" type="checkbox"/>	Other cases		
Test mode	Mode 1~4			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

9.6. Test Result

Product Name	: Wireless Access Point	Power	: AC 120V/60Hz
Test Mode	: Mode 1~4	Test Site	: TR8
Test Date	: 2020.06.10	Test Engineer	: Eric

Radio 1:

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
			Worst Chain		
1	01	2412	-5.847	6.17	Pass
1	06	2437	-5.573	6.17	Pass
1	11	2462	-6.703	6.17	Pass
2	01	2412	-6.713	6.17	Pass
2	06	2437	-5.886	6.17	Pass
2	11	2462	-5.975	6.17	Pass
3	01	2412	-7.304	6.17	Pass
3	06	2437	-6.713	6.17	Pass
3	11	2462	-7.668	6.17	Pass
4	01	2412	-6.827	6.17	Pass
4	06	2437	-5.372	6.17	Pass
4	11	2462	-7.189	6.17	Pass

Note1: Both of two chains are tested and only the worst chain of the PSD was showed.

Radio 2 SISO:

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
			Worst Chain		
1	01	2412	-5.167	6.12	Pass
1	06	2437	-5.153	6.12	Pass
1	11	2462	-6.827	6.12	Pass
2	01	2412	-7.457	6.12	Pass
2	06	2437	-6.354	6.12	Pass
2	11	2462	-7.458	6.12	Pass
3	01	2412	-7.739	6.12	Pass
3	06	2437	-6.194	6.12	Pass
3	11	2462	-7.733	6.12	Pass
4	01	2412	-7.288	6.12	Pass
4	06	2437	-6.649	6.12	Pass
4	11	2462	-7.308	6.12	Pass

Note1: Both of two chains are tested and only the worst chain of the PSD was showed.

Radio 2 CDD:

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
			Worst Chain		
1	01	2412	-5.915	0.1	Pass
1	06	2437	-5.264	0.1	Pass
1	11	2462	-5.784	0.1	Pass
2	01	2412	-7.162	0.1	Pass
2	06	2437	-6.549	0.1	Pass
2	11	2462	-7.654	0.1	Pass
3	01	2412	-8.127	0.1	Pass
3	06	2437	-7.082	0.1	Pass
3	11	2462	-7.922	0.1	Pass
4	01	2412	-6.302	0.1	Pass
4	06	2437	-6.585	0.1	Pass
4	11	2462	-8.375	0.1	Pass

Note1: Both of two chains are tested and only the worst chain of the PSD was showed.

2: PSD limit = 8dBm/3kHz – 10Log(2) – (directional gain- 6)

Radio 2 Beamforming:

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
			Worst Chain		
3	01	2412	-8.146	0.1	Pass
3	06	2437	-6.445	0.1	Pass
3	11	2462	-7.705	0.1	Pass
4	01	2412	-7.420	0.1	Pass
4	06	2437	-5.509	0.1	Pass
4	11	2462	-6.902	0.1	Pass

Note1: Both of two chains are tested and only the worst chain of the PSD was showed.

2: PSD limit = 8dBm/3kHz – 10Log(2) – (directional gain- 6)

10. Antenna Requirement

10.1. Limit

Antenna Requirement Limit	
<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p>	

10.2. Antenna Connector Construction

Antenna Connector Construction	
<input type="checkbox"/>	The use of a permanently attached antenna
<input type="checkbox"/>	The antenna use of a unique coupling to the intentional radiator
<input checked="" type="checkbox"/>	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

_____ The End _____

Appendix 1: 2.4GHz FCC&ISED RF output power

FCC&ISED 2.4GHz Power Table-Radio 1									
Standard:	FCC Part 15.247&RSS-247	Test Date:	2020.5.29	Temperature:	25°C	Humidity:	55%RH		
Project No. :	2032034R			Product Name:	Wireless Access Point	Model Name:	AP460SC	Test Site:	TR8
Antenna Gain(dBi)		Ant 4	7.83						
Antenna Technology:	SISO								
Mode:	802.11b	Data Rate:	1Mbps	Power SISO mode					
Test Conditions		Channel	Frequency (MHz)	Conducted Power Ant 4 Avg. (dBm)	EIRP Ant 4 Avg. (dBm)	Conducted Power Limit		EIRP Limit	
Tnom (25 °C)	Vnom (120V)	1	2412	22.02	29.85	28.17	Pass	36	Pass
		2	2417	22.35	30.18	28.17	Pass	36	Pass
		6	2437	22.65	30.48	28.17	Pass	36	Pass
		10	2457	22.76	30.59	28.17	Pass	36	Pass
		11	2462	22.23	30.06	28.17	Pass	36	Pass
Mode:	802.11g	Data Rate:	6Mbps	Power SISO mode					
Test Conditions		Channel	Frequency (MHz)	Conducted Power Ant 4 Avg. (dBm)	EIRP Ant 4 Avg. (dBm)	Conducted Power Limit		EIRP Limit	
Tnom (25 °C)	Vnom (120V)	1	2412	19.57	27.40	28.17	Pass	36	Pass
		2	2417	20.97	28.80	28.17	Pass	36	Pass
		6	2437	21.23	29.06	28.17	Pass	36	Pass
		10	2457	19.98	27.81	28.17	Pass	36	Pass
		11	2462	18.91	26.74	28.17	Pass	36	Pass
Mode:	802.11n(20MHz)	Data Rate:	MCS0	Power SISO mode					
Test Conditions		Channel	Frequency (MHz)	Conducted Power Ant 4 Avg. (dBm)	EIRP Ant 4 Avg. (dBm)	Conducted Power Limit		EIRP Limit	
Tnom (25 °C)	Vnom (120V)	1	2412	18.96	26.79	28.17	Pass	36	Pass
		2	2417	20.43	28.26	28.17	Pass	36	Pass
		6	2437	21.29	29.12	28.17	Pass	36	Pass
		10	2457	19.92	27.75	28.17	Pass	36	Pass
		11	2462	18.82	26.65	28.17	Pass	36	Pass
Mode:	802.11ax(20MHz)	Data Rate:	HE0NSS1	Power SISO mode					
Test Conditions		Channel	Frequency (MHz)	Conducted Power Ant 4 Avg. (dBm)	EIRP Ant 4 Avg. (dBm)	Conducted Power Limit		EIRP Limit	
Tnom (25 °C)	Vnom (120V)	1	2412	18.73	26.56	28.17	Pass	36	Pass
		2	2417	20.42	28.25	28.17	Pass	36	Pass
		6	2437	21.20	29.03	28.17	Pass	36	Pass
		10	2457	19.67	27.50	28.17	Pass	36	Pass
		11	2462	18.58	26.41	28.17	Pass	36	Pass



FCC&ISED 2.4GHz Power Table-Radio 2



Standard:	FCC Part 15.247&RSS-247	Test Date:	2020.5.29	Temperature:	25°C	Humidity:	55%RH				
Project No. :	2032034R			Product Name:	Wireless Access Point	Model Name:	AP460SC	Test Site:	TR8		
Antenna Gain(dBi)		Ant 1	7.88	Ant 2	7.88						
CDD-Directional Gain-Power(dBi)		7.88									
BF-Directional Gain-Power(dBi)		10.89									
Antenna Technology:	SISO										
Mode:	802.11b	Data Rate:	1Mbps	Power							
				SISO mode							
Test Conditions		Channel	Frequency	Ant1	Ant2	EIRP	EIRP	Conducted Power Limit		EIRP Limit	
			(MHz)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)		Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	1	2412	21.56	21.26	29.44	29.14	28.12	Pass	36	Pass
		2	2417	21.72	21.50	29.60	29.38	28.12	Pass	36	Pass
		6	2437	21.55	21.38	29.43	29.26	28.12	Pass	36	Pass
		10	2457	21.93	21.66	29.81	29.54	28.12	Pass	36	Pass
		11	2462	21.63	21.06	29.51	28.94	28.12	Pass	36	Pass
Mode:	802.11g	Data Rate:	6Mbps	Power							
				SISO mode							
Test Conditions		Channel	Frequency	Ant1	Ant2	EIRP	EIRP	Conducted Power Limit		EIRP Limit	
			(MHz)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)		Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	1	2412	18.81	18.28	26.69	26.16	28.12	Pass	36	Pass
		2	2417	19.65	19.23	27.53	27.11	28.12	Pass	36	Pass
		6	2437	19.93	19.35	27.81	27.23	28.12	Pass	36	Pass
		10	2457	18.91	18.63	26.79	26.51	28.12	Pass	36	Pass
		11	2462	18.09	17.59	25.97	25.47	28.12	Pass	36	Pass
Mode:	802.11n(20MHz)	Data Rate:	MCS0	Power							
				SISO mode							
Test Conditions		Channel	Frequency	Ant1	Ant2	EIRP	EIRP	Conducted Power Limit		EIRP Limit	
			(MHz)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)		Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	1	2412	18.03	17.56	25.91	25.44	28.12	Pass	36	Pass
		2	2417	19.41	18.98	27.29	26.86	28.12	Pass	36	Pass
		6	2437	19.89	19.32	27.77	27.20	28.12	Pass	36	Pass
		10	2457	19.13	18.52	27.01	26.40	28.12	Pass	36	Pass
		11	2462	17.56	17.02	25.44	24.90	28.12	Pass	36	Pass
Mode:	802.11ax(20MHz)	Data Rate:	HE0NSS1	Power							
				SISO mode							
Test Conditions		Channel	Frequency	Ant1	Ant2	EIRP	EIRP	Conducted Power Limit		EIRP Limit	
			(MHz)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)		Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	1	2412	17.95	17.38	25.83	25.26	28.12	Pass	36	Pass
		2	2417	19.21	18.94	27.09	26.82	28.12	Pass	36	Pass
		6	2437	19.87	19.32	27.75	27.20	28.12	Pass	36	Pass
		10	2457	19.07	18.50	26.95	26.38	28.12	Pass	36	Pass
		11	2462	17.53	16.91	25.41	24.79	28.12	Pass	36	Pass

Antenna Technology:		CDD									
Mode:	802.11b	Data Rate:	1Mbps	Power							
				Conducted power				MIMO Mode(2TX+2RX)			
Test Conditions		Channel	Frequency	Ant 1+2		Conducted Power	EIRP	Conducted Power Limit		EIRP Limit	
				Avg. (dBm)				Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	1	2412	21.67	21.26	24.48	32.36	28.12	Pass	36	Pass
		2	2417	21.61	21.22	24.43	32.31	28.12	Pass	36	Pass
		6	2437	21.72	21.35	24.55	32.43	28.12	Pass	36	Pass
		10	2457	22.06	21.42	24.76	32.64	28.12	Pass	36	Pass
		11	2462	21.61	21.46	24.55	32.43	28.12	Pass	36	Pass
Mode:	802.11g	Data Rate:	6Mbps	Power							
				Conducted power				MIMO Mode(2TX+2RX)			
Test Conditions		Channel	Frequency	Ant 1+2		Conducted Power	EIRP	Conducted Power Limit		EIRP Limit	
				Avg. (dBm)				Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	1	2412	18.29	17.76	21.04	28.92	28.12	Pass	36	Pass
		2	2417	18.97	18.45	21.73	29.61	28.12	Pass	36	Pass
		6	2437	19.90	19.39	22.66	30.54	28.12	Pass	36	Pass
		10	2457	18.19	17.86	21.04	28.92	28.12	Pass	36	Pass
		11	2462	17.31	16.82	20.08	27.96	28.12	Pass	36	Pass
Mode:	802.11n(20MHz)	Data Rate:	MCS0	Power							
				Conducted power				MIMO Mode(2TX+2RX)			
Test Conditions		Channel	Frequency	Ant 1+2		Conducted Power	EIRP	Conducted Power Limit		EIRP Limit	
				Avg. (dBm)				Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	1	2412	17.51	17.06	20.30	28.18	28.12	Pass	36	Pass
		2	2417	19.11	18.76	21.95	29.83	28.12	Pass	36	Pass
		6	2437	19.87	19.35	22.63	30.51	28.12	Pass	36	Pass
		10	2457	17.95	17.35	20.67	28.55	28.12	Pass	36	Pass
		11	2462	17.03	16.55	19.81	27.69	28.12	Pass	36	Pass
Mode:	802.11ax(20MHz)	Data Rate:	HE0NSS1	Power							
				Conducted power				MIMO Mode(2TX+2RX)			
Test Conditions		Channel	Frequency	Ant 1+2		Conducted Power	EIRP	Conducted Power Limit		EIRP Limit	
				Avg. (dBm)				Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	1	2412	17.40	16.89	20.16	28.04	28.12	Pass	36	Pass
		2	2417	19.02	18.72	21.88	29.76	28.12	Pass	36	Pass
		6	2437	19.87	19.20	22.56	30.44	28.12	Pass	36	Pass
		10	2457	17.81	17.27	20.56	28.44	28.12	Pass	36	Pass
		11	2462	16.94	16.51	19.74	27.62	28.12	Pass	36	Pass
Antenna Technology:		Beamforming									
Mode:	802.11n(20MHz)	Data Rate:	MCS0	Power							
				Conducted power				MIMO Mode(2TX+2RX)			
Test Conditions		Channel	Frequency	Ant 1+2		Conducted Power	EIRP	Conducted Power Limit		EIRP Limit	
				Avg. (dBm)				Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail

			(MHz)	Ant1	Ant2	Avg. (dBm)		Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	1	2412	17.64	17.12	20.40	31.29	25.11	Pass	36	Pass
		2	2417	19.25	18.82	22.05	32.94	25.11	Pass	36	Pass
		6	2437	20.01	19.53	22.79	33.68	25.11	Pass	36	Pass
		10	2457	17.97	17.51	20.76	31.65	25.11	Pass	36	Pass
		11	2462	17.23	16.72	19.99	30.88	25.11	Pass	36	Pass
Mode:	802.11ax(20MHz)	Data Rate:	HE0NSS1	Power							
				MIMO Mode(2TX+2RX)							
Test Conditions		Channel	Frequency	Conducted power		Conducted Power	EIRP	Conducted Power Limit	EIRP Limit		
				Ant 1+2							
			(MHz)	Ant1	Ant2	Avg. (dBm)		Avg. (dBm)	Pass/Fail	Avg. (dBm)	Pass/Fail
Tnom (25 °C)	Vnom (120V)	1	2412	17.66	17.13	20.41	31.30	25.11	Pass	36	Pass
		2	2417	19.24	18.94	22.10	32.99	25.11	Pass	36	Pass
		6	2437	19.92	19.47	22.71	33.60	25.11	Pass	36	Pass
		10	2457	18.02	17.47	20.76	31.65	25.11	Pass	36	Pass
		11	2462	17.21	16.72	19.98	30.87	25.11	Pass	36	Pass