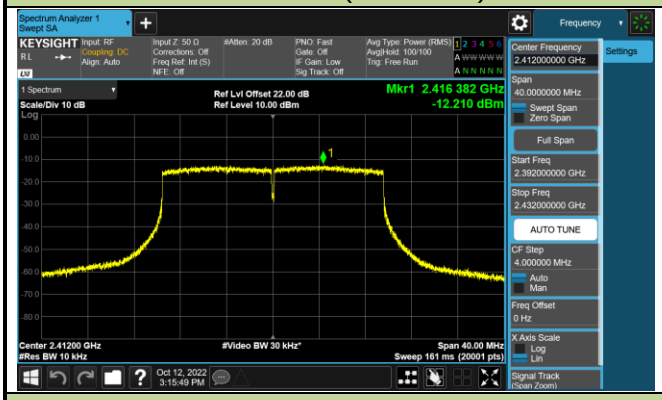
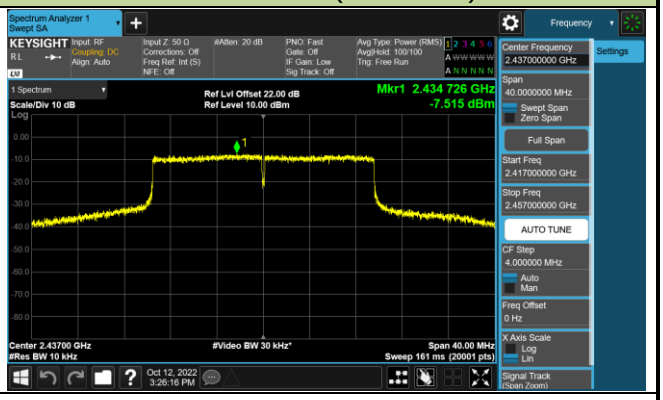
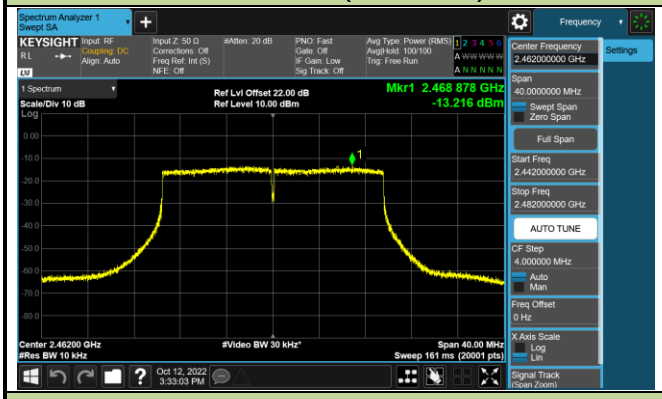
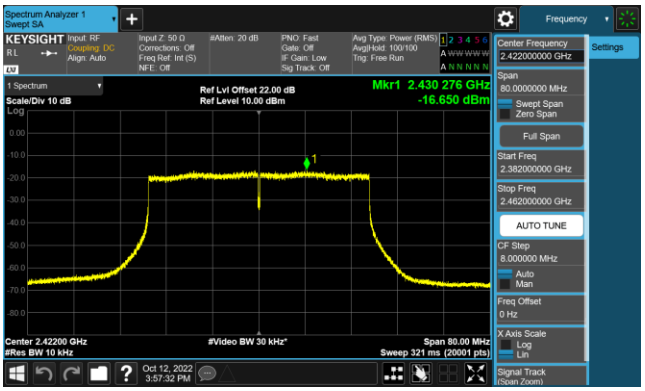
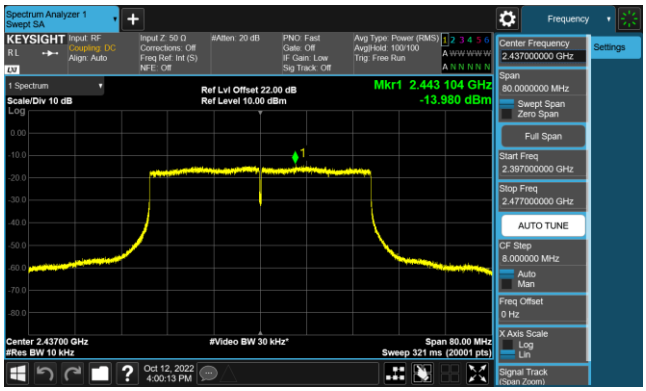
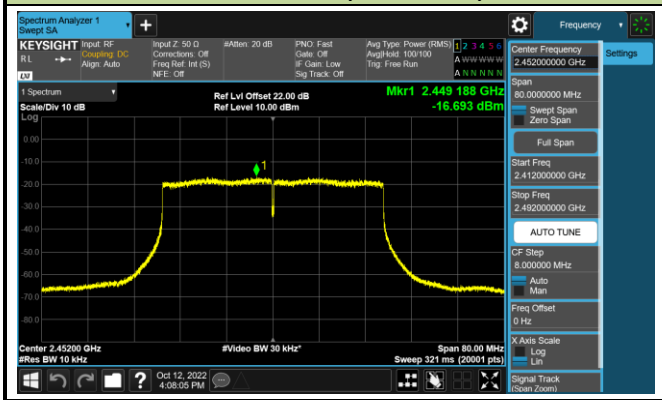
802.11ax-HE20 AVGPSD - Horizontal Antenna -Ant 1	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11ax-HE40 AVGPSD - Horizontal Antenna -Ant 1	
Channel 03 (2422MHz)	Channel 06 (2437MHz)
	
Channel 09 (2452MHz)	
	

Product	AX3000 Indoor/Outdoor Wi-Fi 6 Access Point	Temperature	25°C
Test Engineer	Jay	Relative Humidity	54%
Test Site	SR5	Test Date	2022/10/11

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/ 10kHz)	Ant 1 PSD (dBm/ 10kHz)	Duty Cycle (%)	Total PSD (dBm/ 10kHz)	Limit (dBm/ 3kHz)	Result
Vertical Antenna									
802.11b	1Mbps	01	2412	-0.104	-1.745	93.82	2.440	≤ 8.00	Pass
802.11b	1Mbps	06	2437	-0.637	-1.054	93.82	2.447	≤ 8.00	Pass
802.11b	1Mbps	11	2462	-1.150	-1.950	93.82	1.756	≤ 8.00	Pass
802.11g	6Mbps	01	2412	-7.989	-8.513	93.59	-4.945	≤ 8.00	Pass
802.11g	6Mbps	06	2437	-5.113	-5.498	93.59	-2.003	≤ 8.00	Pass
802.11g	6Mbps	11	2462	-8.933	-9.381	93.59	-5.853	≤ 8.00	Pass
802.11n-HT20	MCS0	01	2412	-10.800	-10.454	89.17	-7.115	≤ 8.00	Pass
802.11n-HT20	MCS0	06	2437	-5.219	-5.632	89.17	-1.912	≤ 8.00	Pass
802.11n-HT20	MCS0	11	2462	-10.789	-11.331	89.17	-7.543	≤ 8.00	Pass
802.11n-HT40	MCS0	03	2422	-14.900	-15.026	87.50	-11.372	≤ 8.00	Pass
802.11n-HT40	MCS0	06	2437	-12.369	-12.734	87.50	-8.957	≤ 8.00	Pass
802.11n-HT40	MCS0	09	2452	-14.674	-15.141	87.50	-11.311	≤ 8.00	Pass
802.11ax-HE20	MCS0	01	2412	-12.696	-12.518	89.25	-9.102	≤ 8.00	Pass
802.11ax-HE20	MCS0	06	2437	-7.093	-6.702	89.25	-3.389	≤ 8.00	Pass
802.11ax-HE20	MCS0	11	2462	-13.515	-13.409	89.25	-9.957	≤ 8.00	Pass
802.11ax-HE40	MCS0	03	2422	-17.494	-17.429	88.67	-13.929	≤ 8.00	Pass
802.11ax-HE40	MCS0	06	2437	-13.792	-14.750	88.67	-10.712	≤ 8.00	Pass
802.11ax-HE40	MCS0	09	2452	-16.514	-16.950	88.67	-13.194	≤ 8.00	Pass

Note: When EUT duty cycle < 98%, Total AVGPSD = $10*\log\{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\} + 10*\log(1/\text{Duty Cycle})$.

802.11b AVGPSD - Vertical Antenna - Ant 0

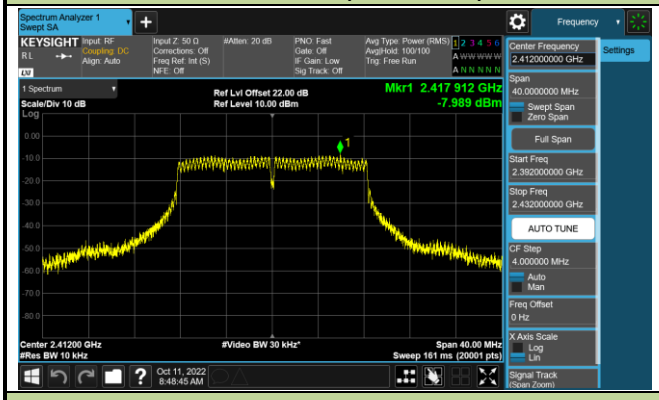
Channel 01 (2412MHz)

Channel 06 (2437MHz)

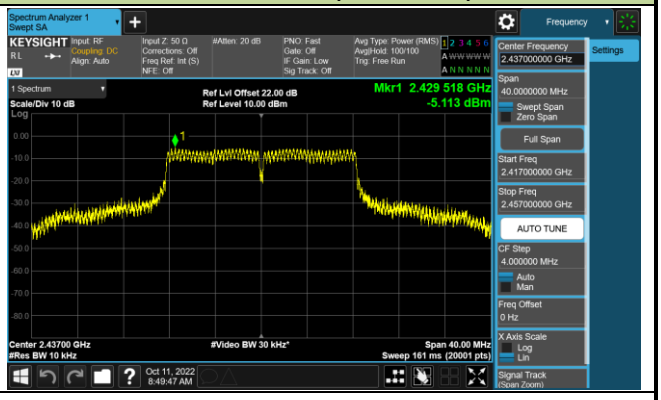
Channel 11 (2462MHz)

802.11g AVGPSD - Vertical Antenna - Ant 0

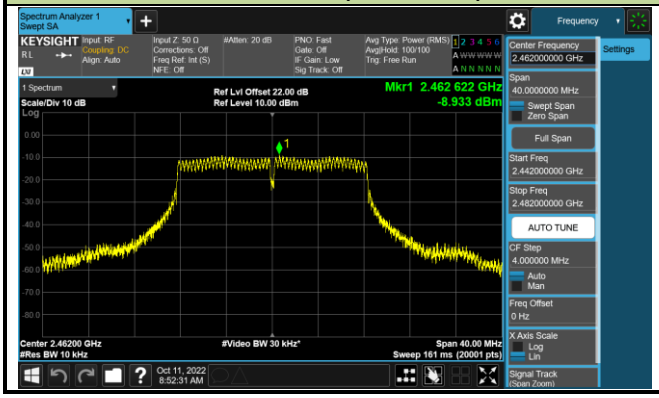
Channel 01 (2412MHz)



Channel 06 (2437MHz)

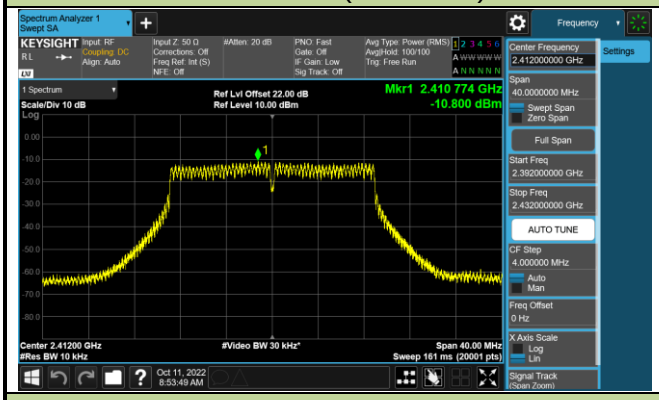


Channel 11 (2462MHz)

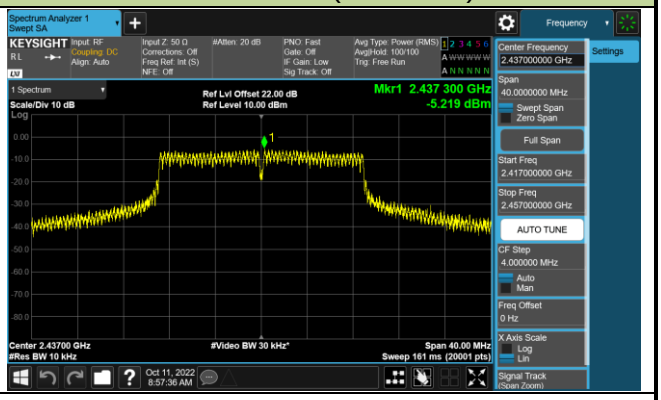


802.11n-HT20 AVGPSD - Vertical Antenna - Ant 0

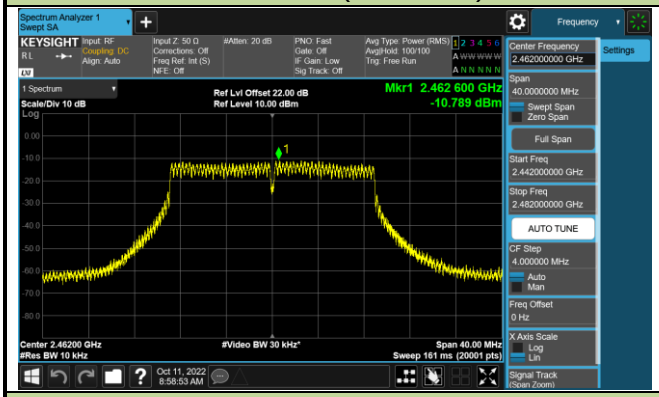
Channel 01 (2412MHz)



Channel 06 (2437MHz)

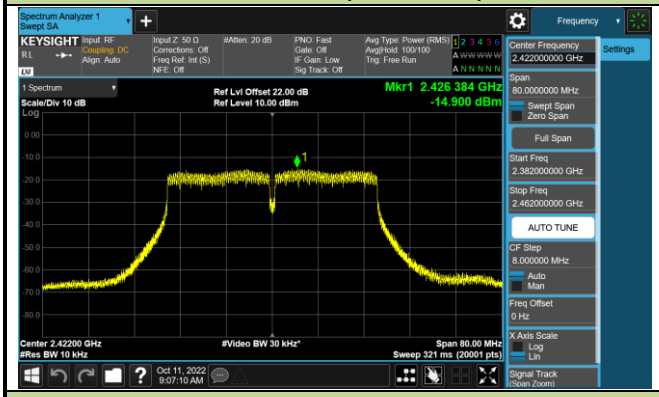


Channel 11 (2462MHz)

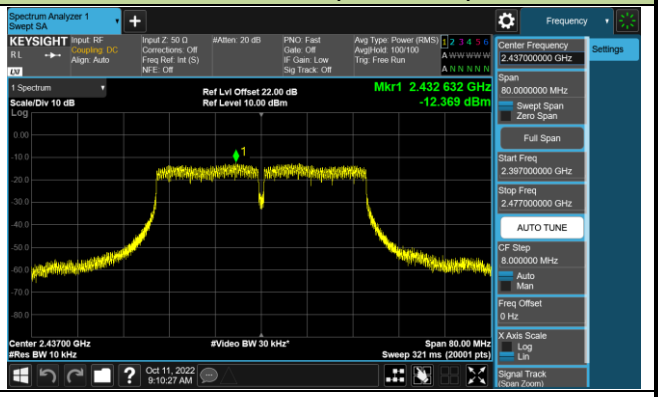


802.11n-HT40 AVGPSD - Vertical Antenna - Ant 0

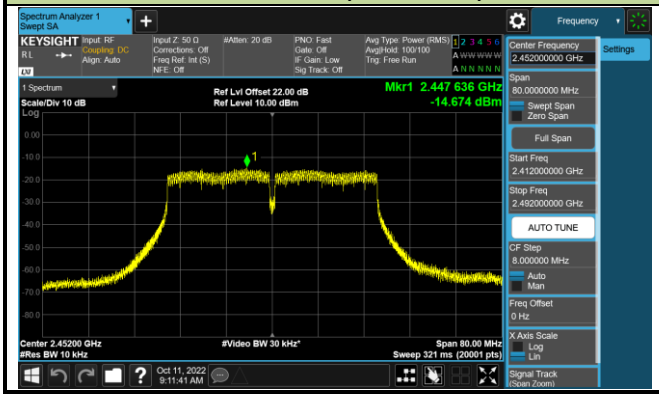
Channel 03 (2422MHz)



Channel 06 (2437MHz)

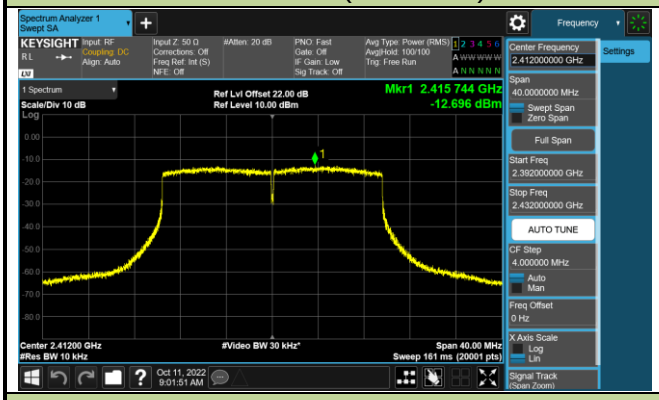


Channel 09 (2452MHz)

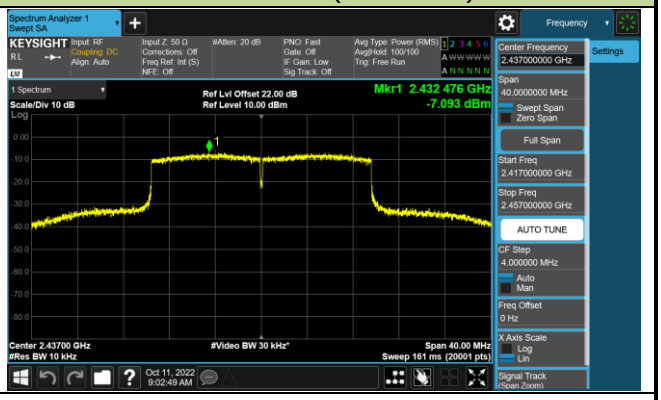


802.11ax-HE20 AVGPSD - Vertical Antenna - Ant 0

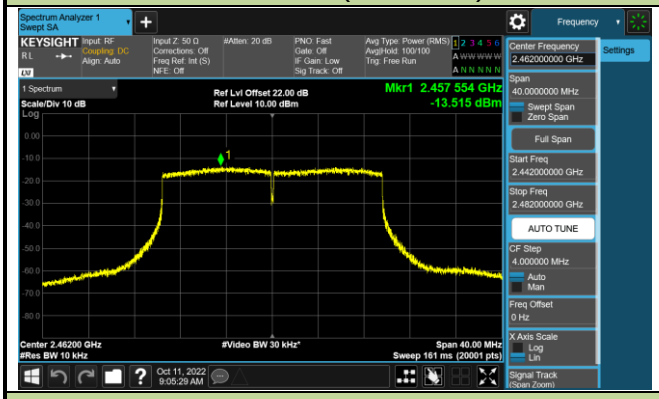
Channel 01 (2412MHz)



Channel 06 (2437MHz)

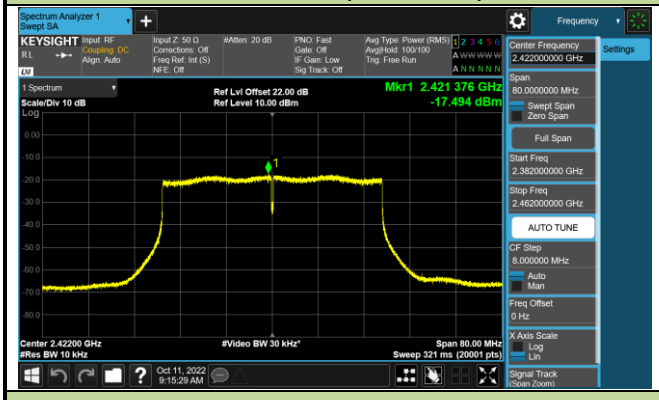


Channel 11 (2462MHz)

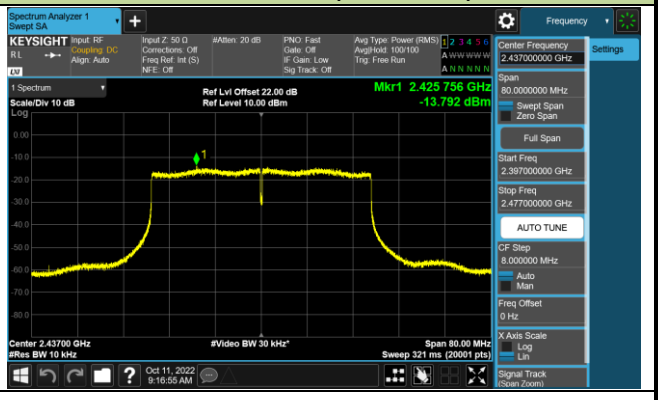


802.11ax-HE40 AVGPSD - Vertical Antenna - Ant 0

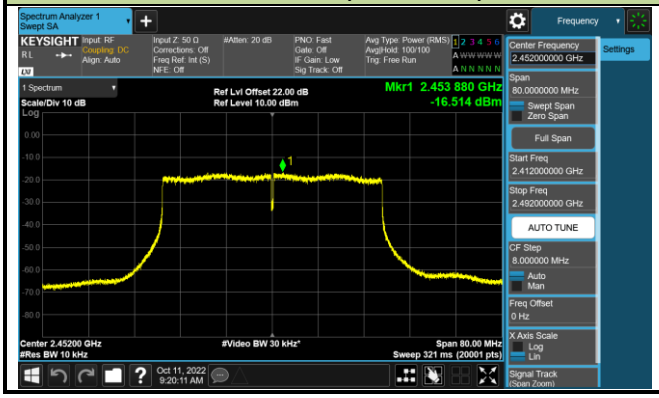
Channel 03 (2422MHz)



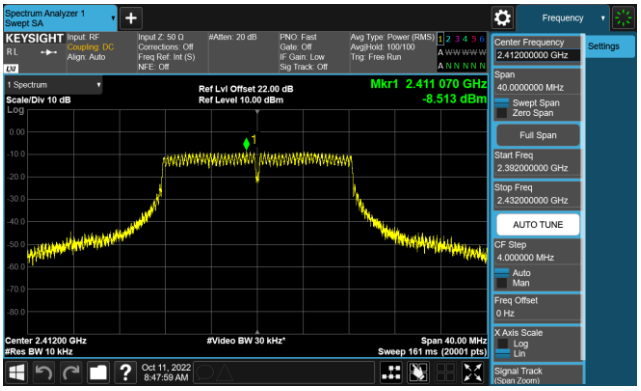
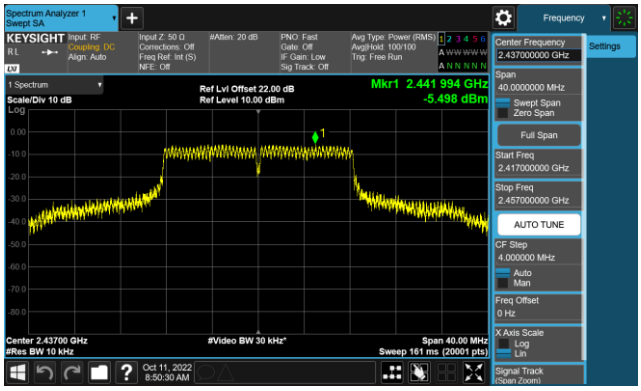
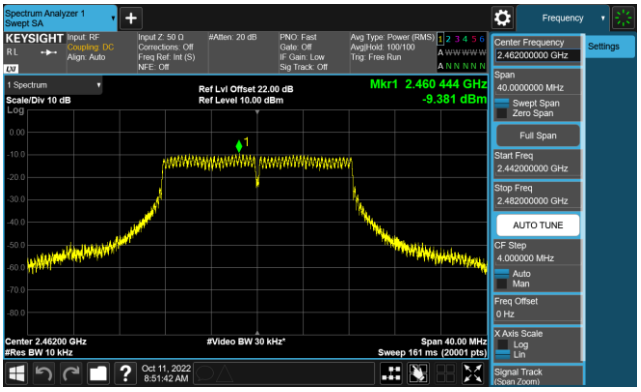
Channel 06 (2437MHz)

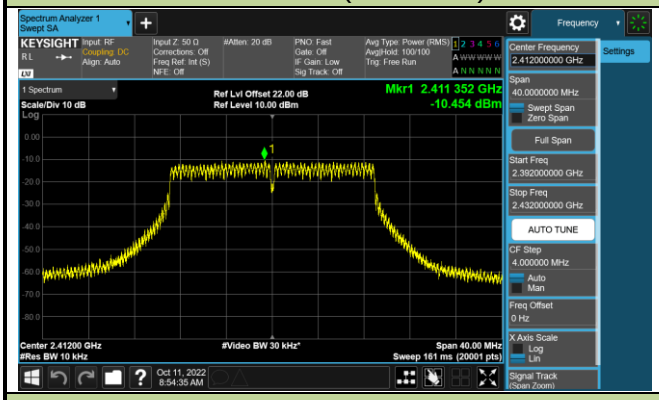
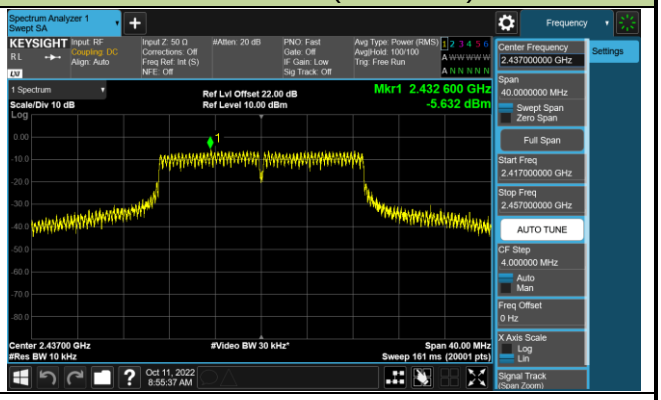
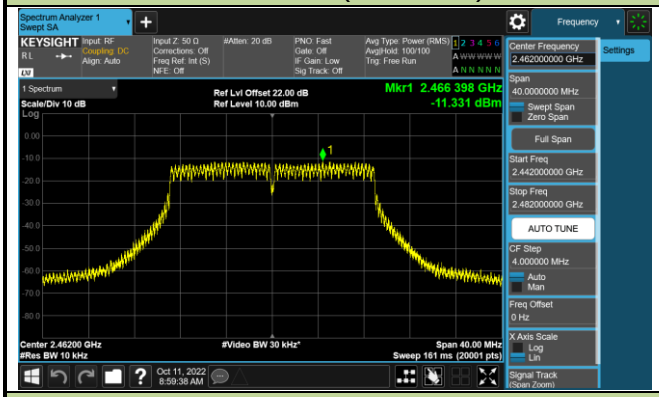


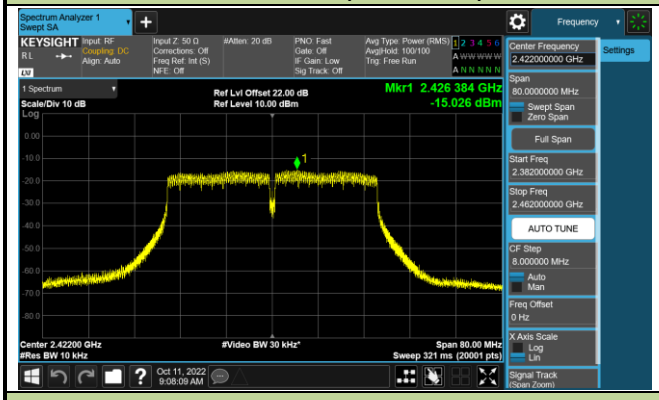
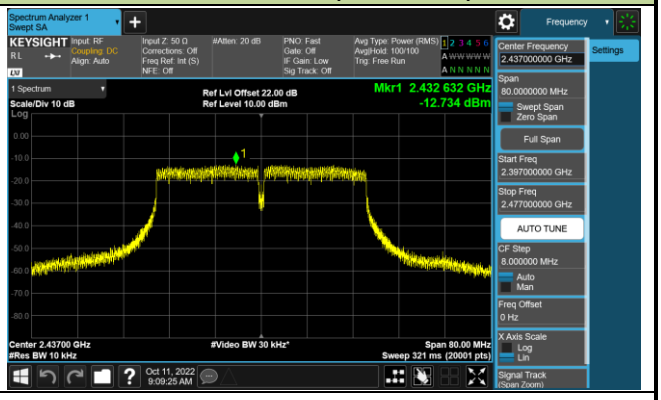
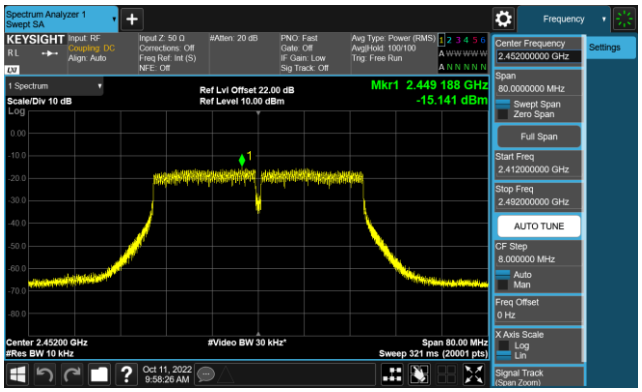
Channel 09 (2452MHz)



802.11b AVGPSD - Vertical Antenna - Ant 1	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
Channel 11 (2462MHz)	

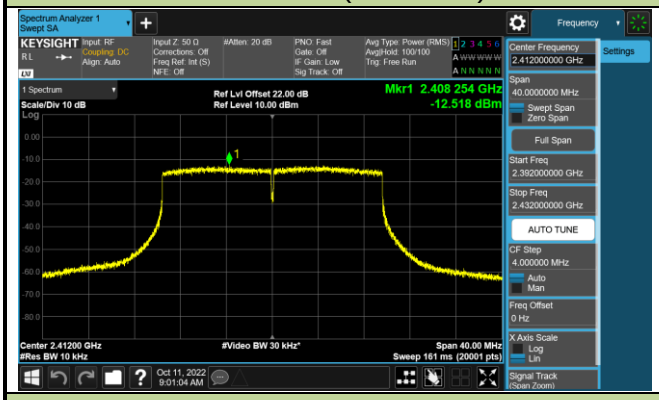
802.11g AVGPSD - Vertical Antenna - Ant 1	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11n-HT20 AVGPSD - Vertical Antenna - Ant 1	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

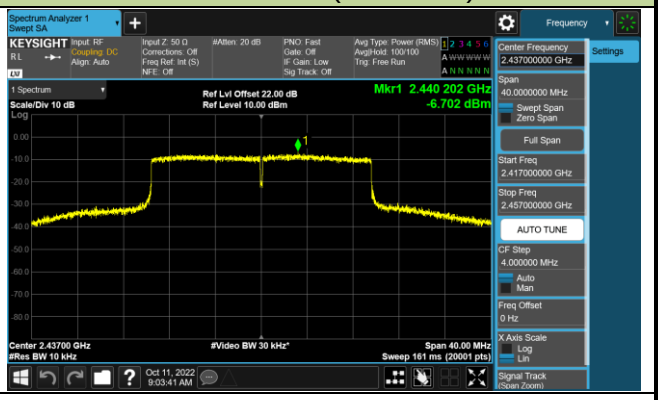
802.11n-HT40 AVGPSD - Vertical Antenna - Ant 1	
Channel 03 (2422MHz)	Channel 06 (2437MHz)
	
Channel 09 (2452MHz)	
	

802.11ax-HE20 AVGPSD - Vertical Antenna - Ant 1

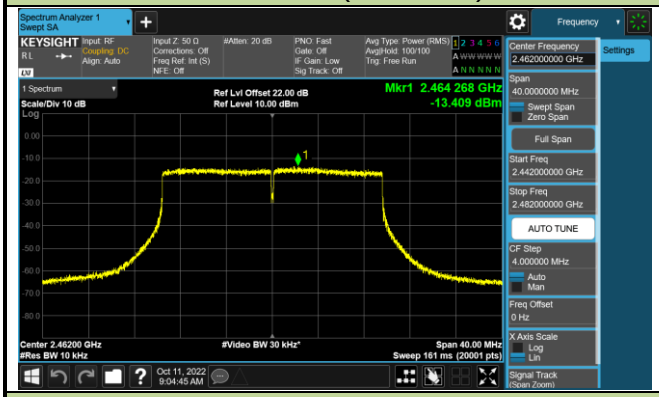
Channel 01 (2412MHz)



Channel 06 (2437MHz)

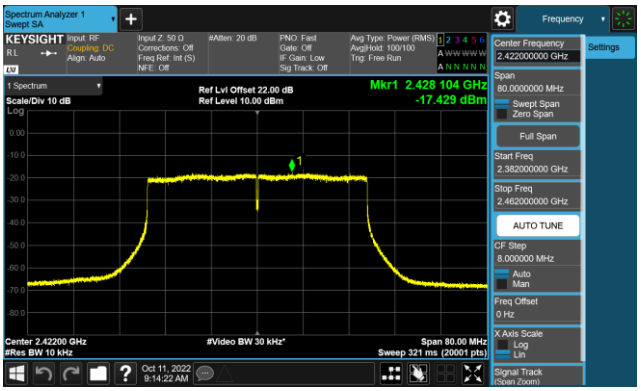


Channel 11 (2462MHz)

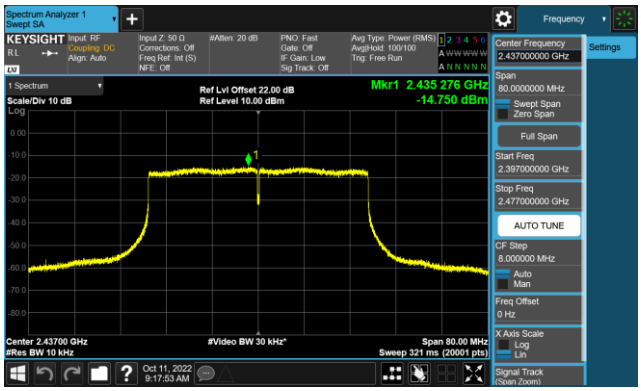


802.11ax-HE40 AVGPSD - Vertical Antenna - Ant 1

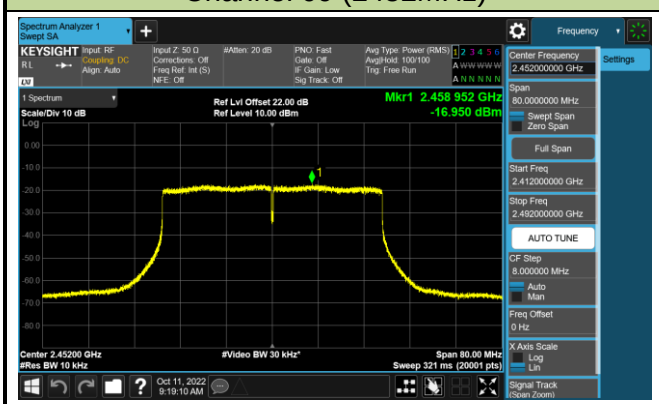
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1.Test Limit

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2.Test Procedure Used

ANSI C63.10 - 2013 Section 11.11

7.5.3.Test Setting

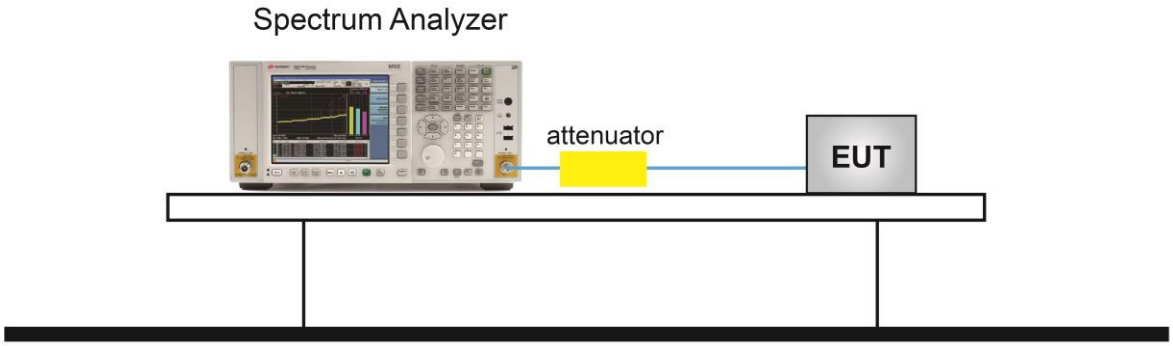
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW ≥ 3 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

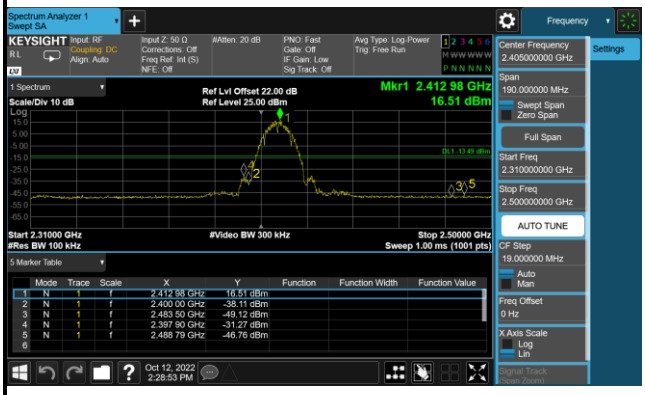
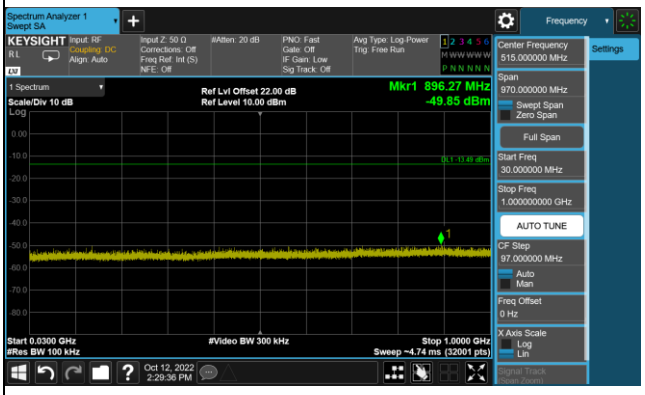
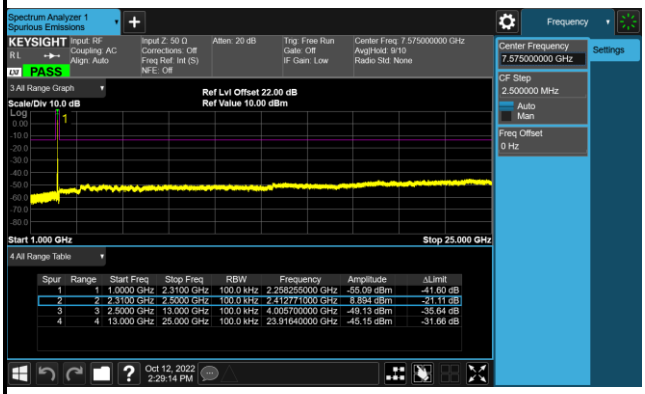
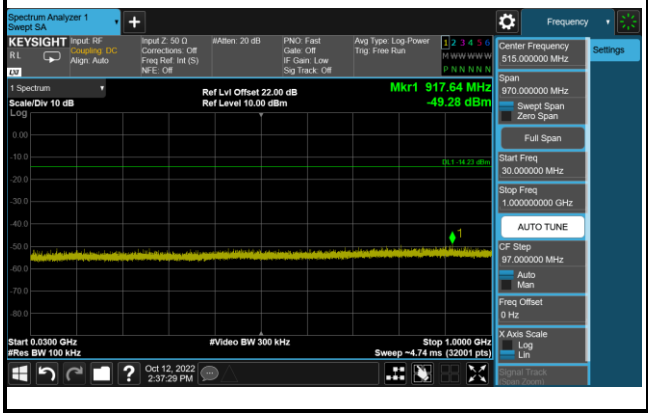
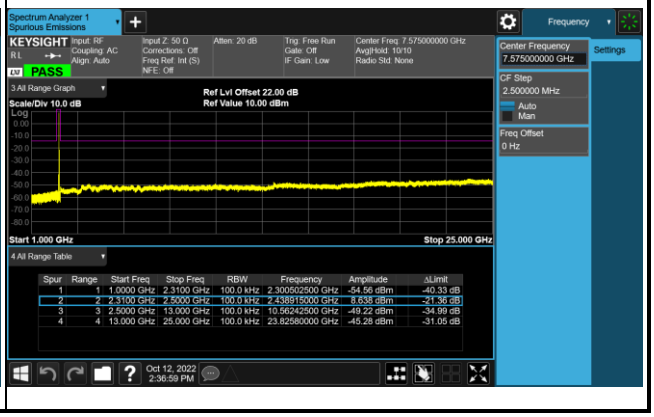
7.5.4.Test Setup

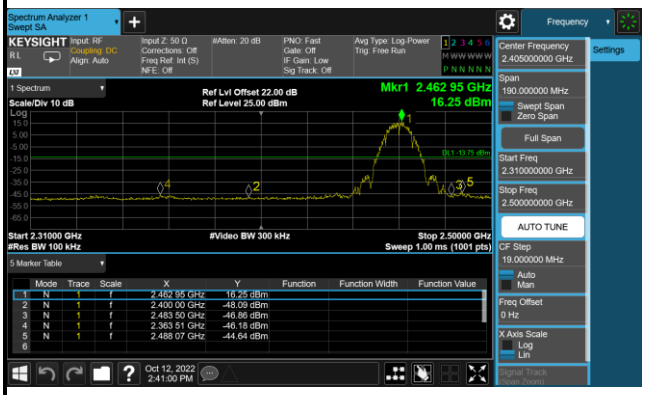
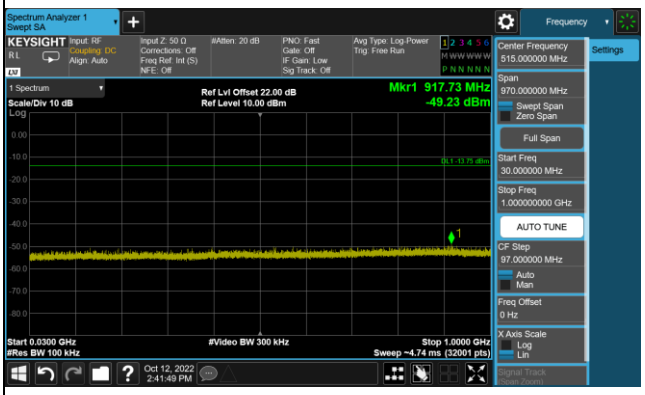


7.5.5.Test Result

Product	AX3000 Indoor/Outdoor Wi-Fi 6 Access Point	Temperature	25°C
Test Engineer	Jay	Relative Humidity	54%
Test Site	SR5	Test Date	2022/10/12

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
Horizontal Antenna					
802.11b	1Mbps	01	2412	30	Pass
802.11b	1Mbps	06	2437	30	Pass
802.11b	1Mbps	11	2462	30	Pass
802.11g	6Mbps	01	2412	30	Pass
802.11g	6Mbps	06	2437	30	Pass
802.11g	6Mbps	11	2462	30	Pass
802.11n-HT20	MCS0	01	2412	30	Pass
802.11n-HT20	MCS0	06	2437	30	Pass
802.11n-HT20	MCS0	11	2462	30	Pass
802.11n-HT40	MCS0	03	2422	30	Pass
802.11n-HT40	MCS0	06	2437	30	Pass
802.11n-HT40	MCS0	09	2452	30	Pass
802.11ax-HE20	MCS0	01	2412	30	Pass
802.11ax-HE20	MCS0	06	2437	30	Pass
802.11ax-HE20	MCS0	11	2462	30	Pass
802.11ax-HE40	MCS0	03	2422	30	Pass
802.11ax-HE40	MCS0	06	2437	30	Pass
802.11ax-HE40	MCS0	09	2452	30	Pass

Antenna 0	
802.11 b CH01 (2412MHz)	**802.11 b CH01 (2412MHz)**
	
802.11 b CH01 (2412MHz)	**802.11 b CH06 (2437MHz)**
	
802.11 b CH06 (2437MHz)	**802.11 b CH06 (2437MHz)**
	

802.11 b CH11 (2462MHz)	802.11 b CH11 (2462MHz)
	
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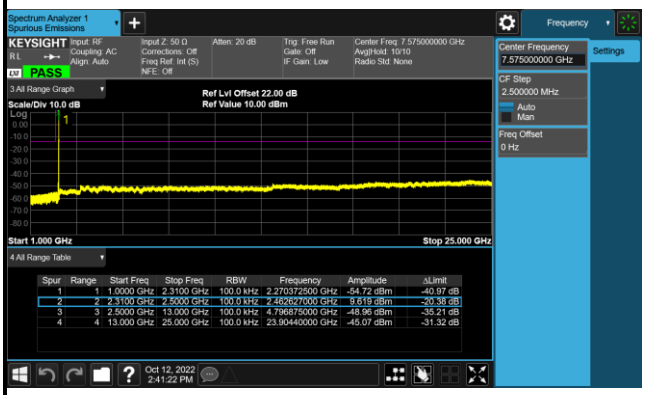	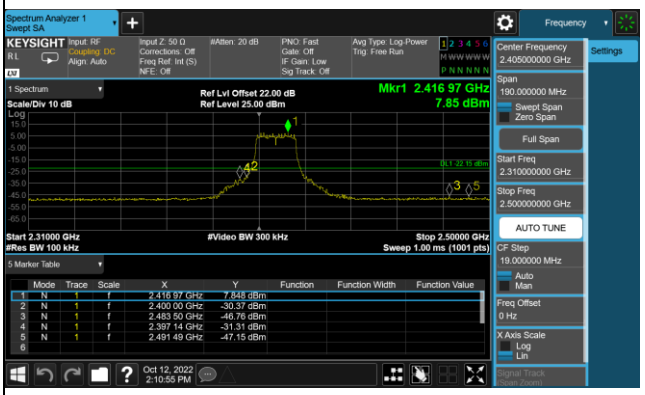
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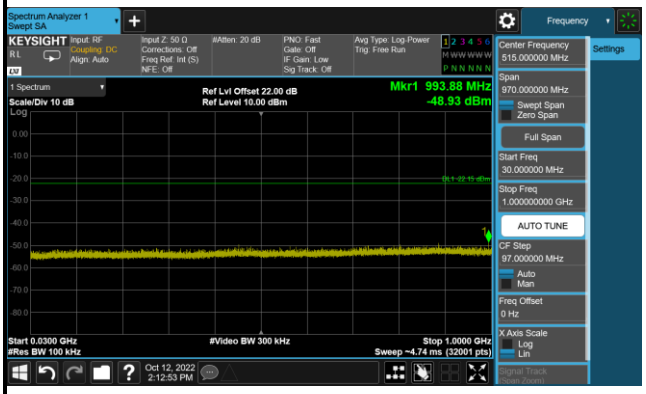
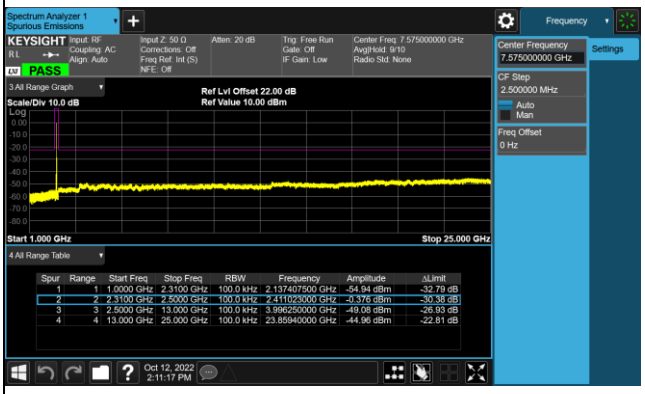
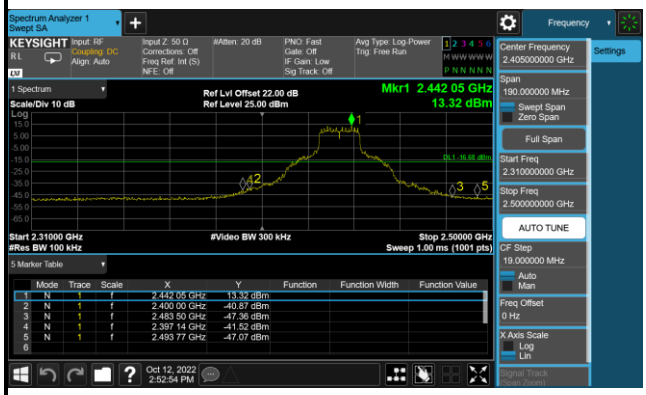
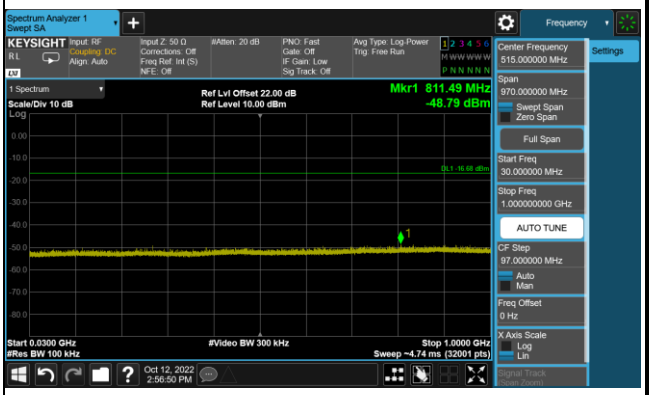
	

802.11 g CH06 (2437MHz)	802.11 g CH06 (2437MHz)
	
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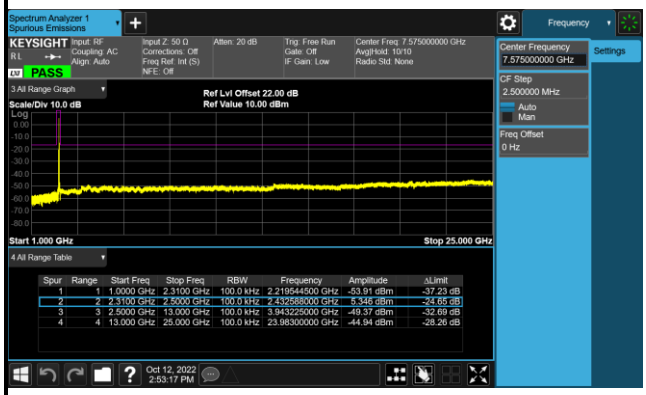	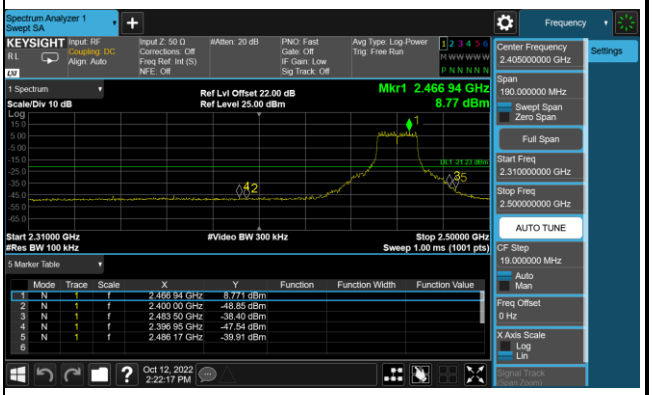
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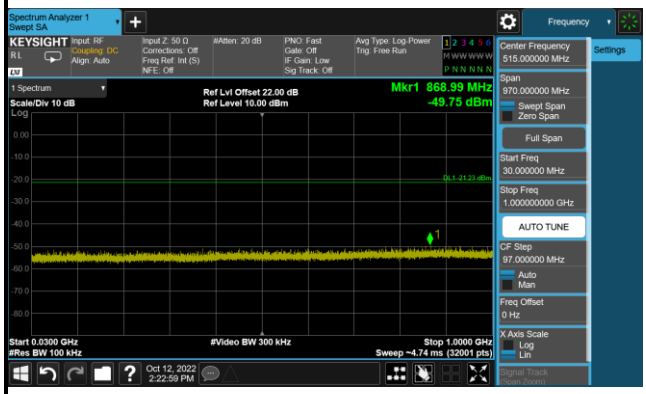	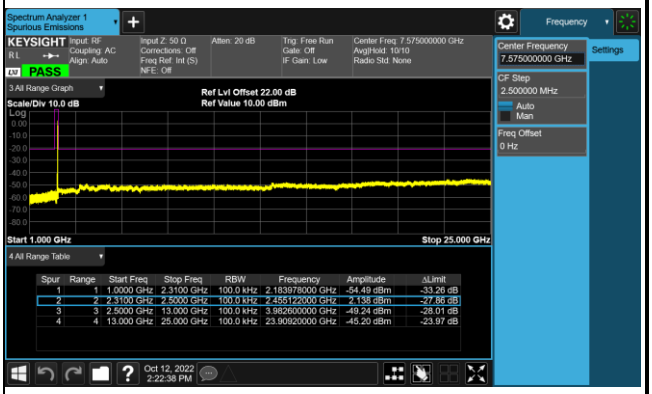

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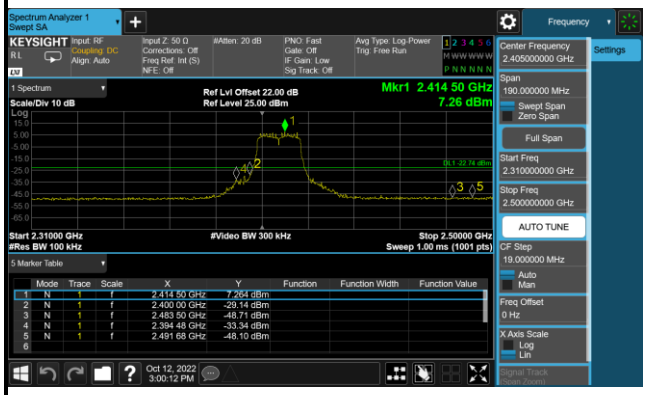	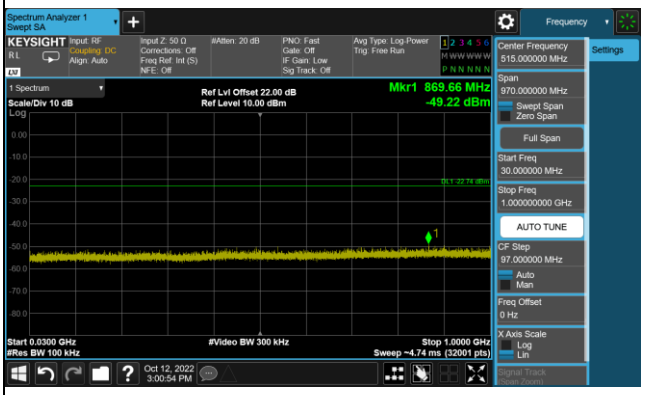
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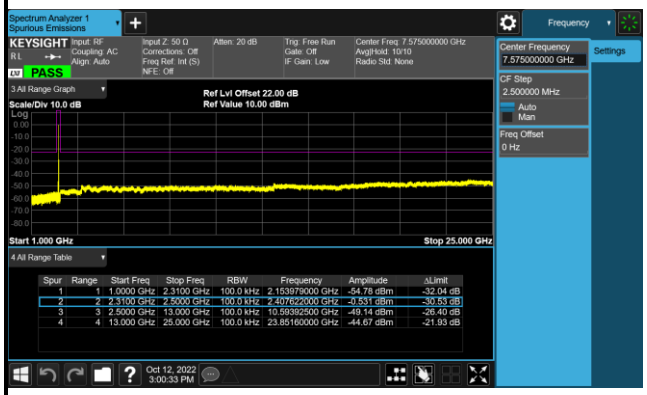
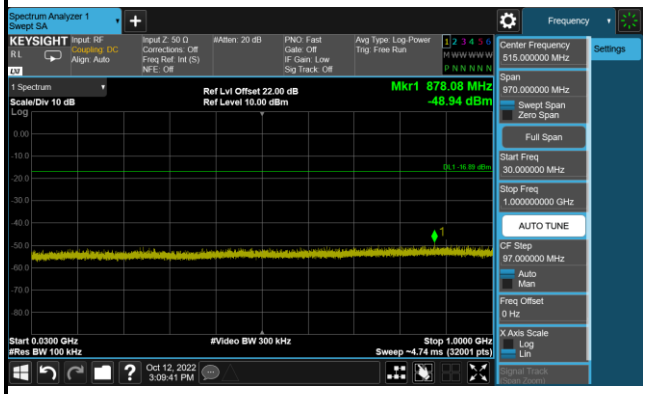
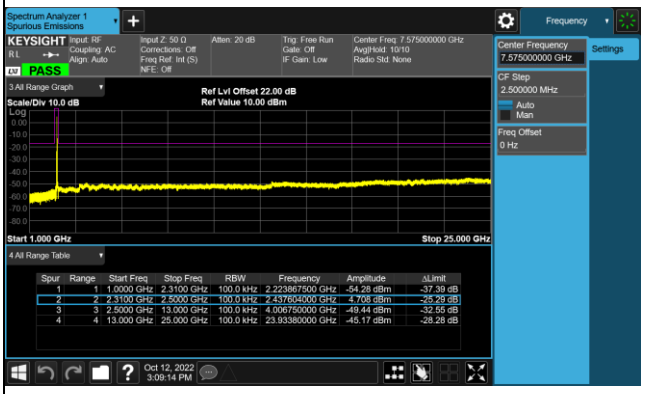
	
802.11 n20 CH06 (2437MHz)	**802.11 n20 CH06 (2437MHz)**
	

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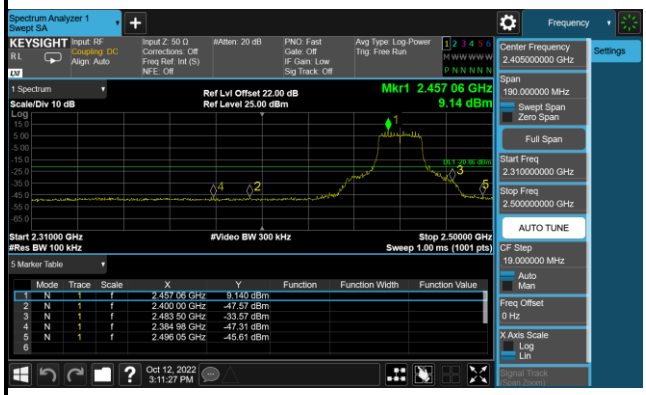
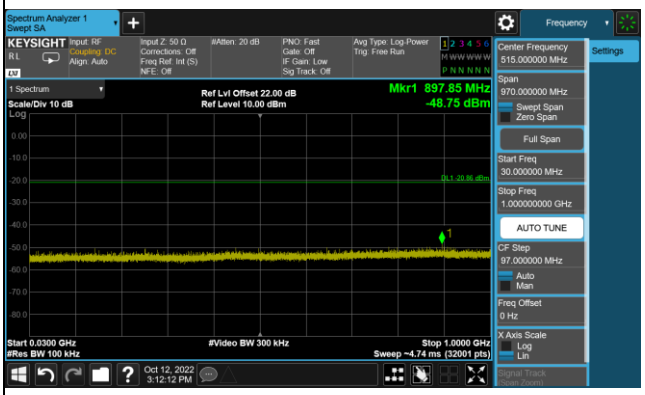
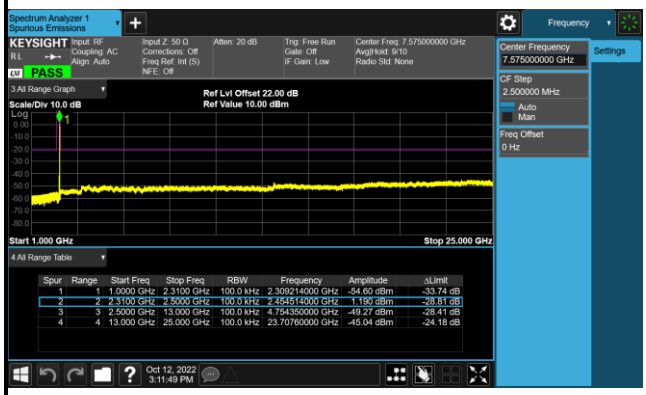
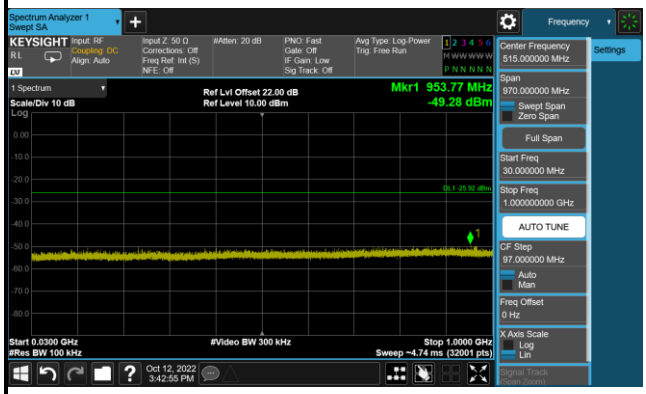
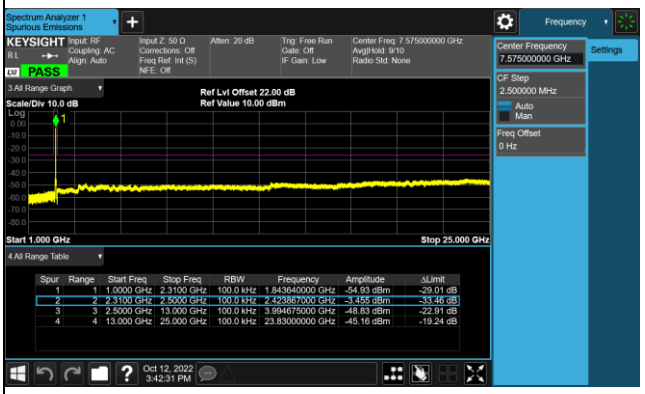
	
802.11 n20 CH11 (2462MHz)	**802.11 n40 CH03 (2422MHz)**
	
802.11 n40 CH03 (2422MHz)	**802.11 n40 CH03 (2422MHz)**