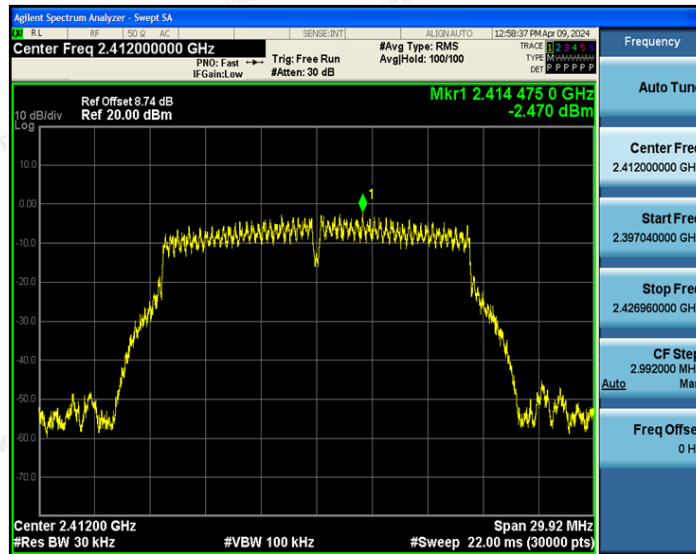


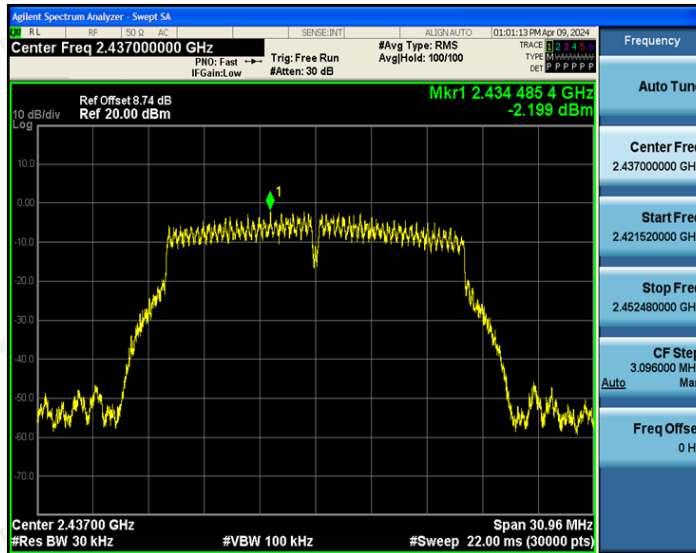


802.11g Modulation

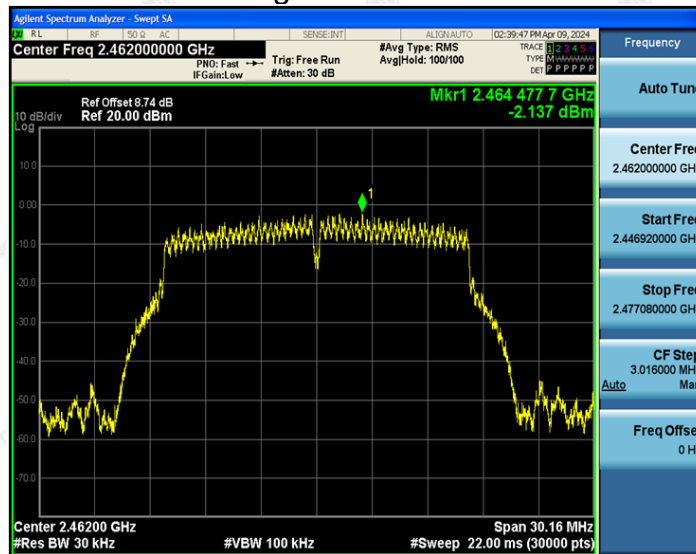
Lowest channel



Middle channel



Highest channel



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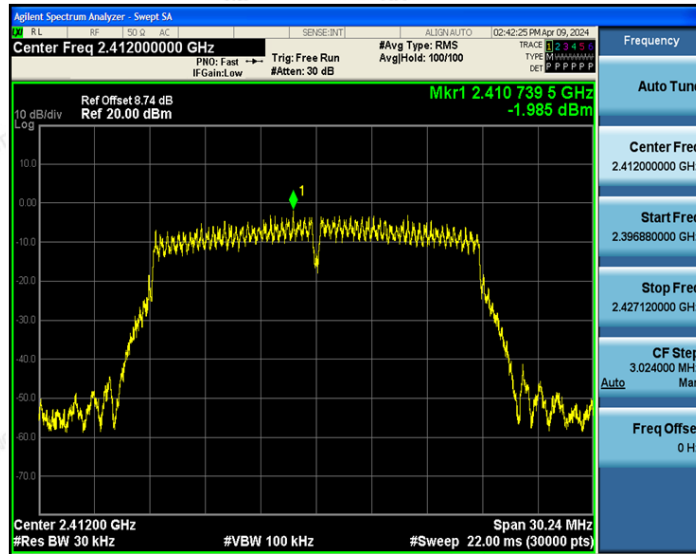
TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

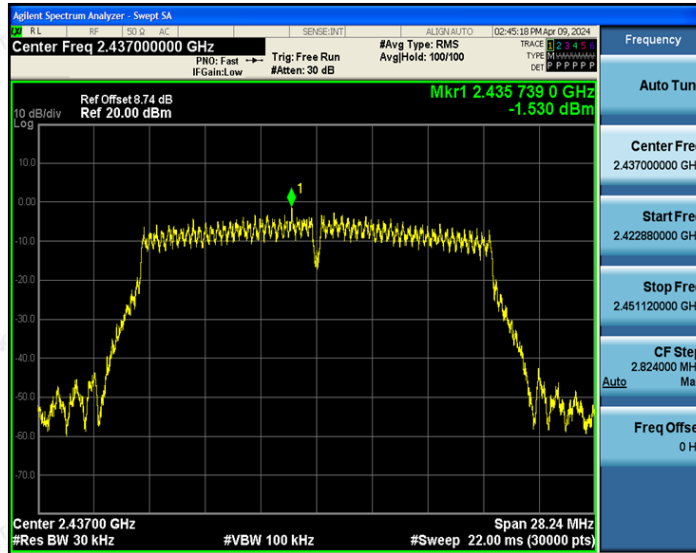


802.11n (HT20) Modulation

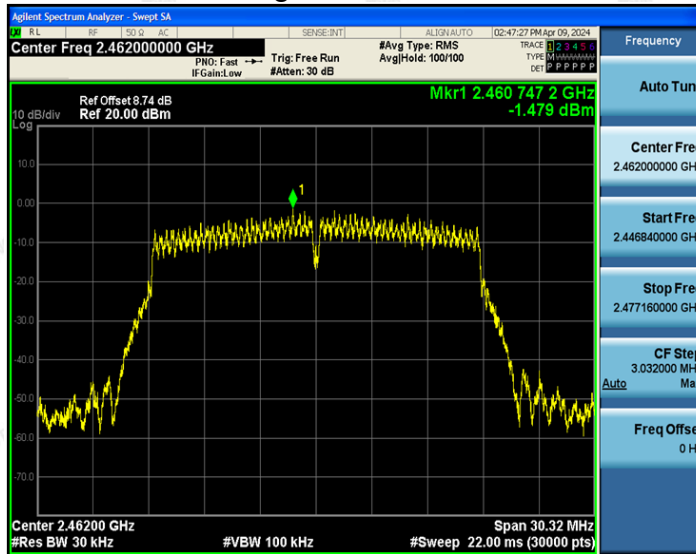
Lowest channel



Middle channel



Highest channel



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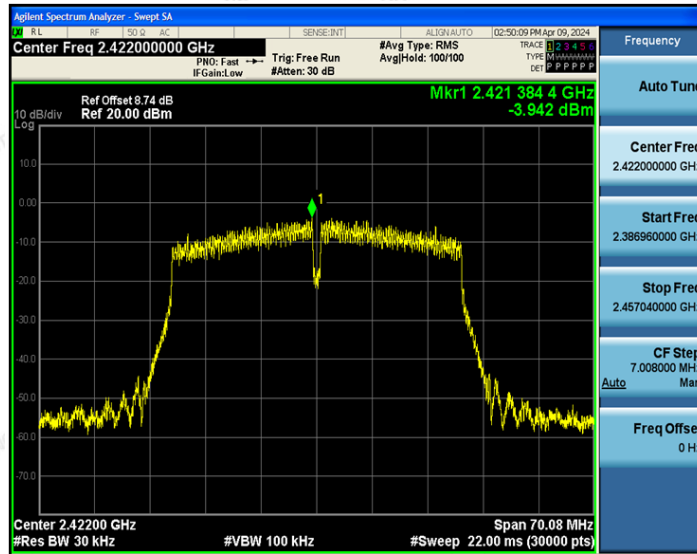
TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

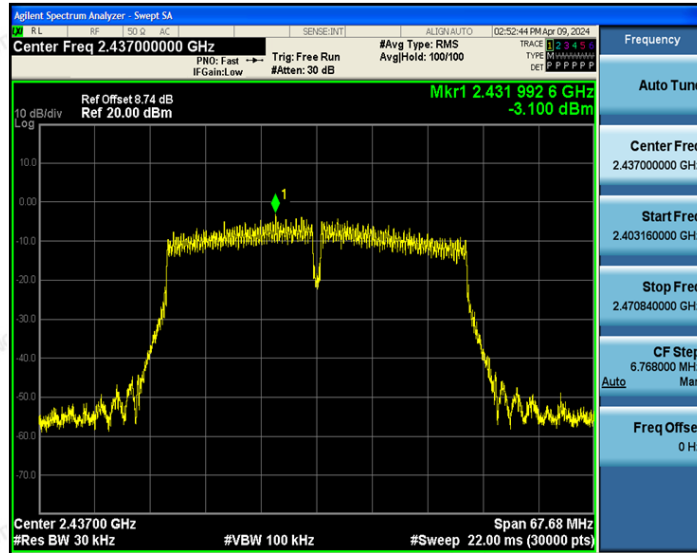


802.11n (HT40) Modulation

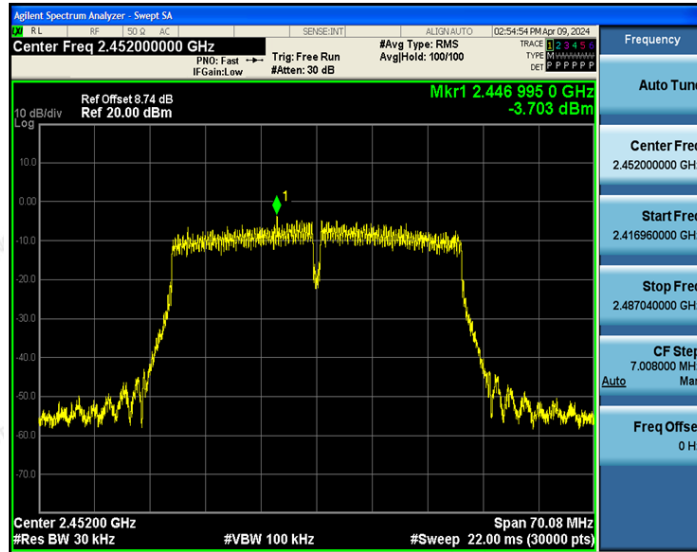
Lowest channel



Middle channel



Highest channel



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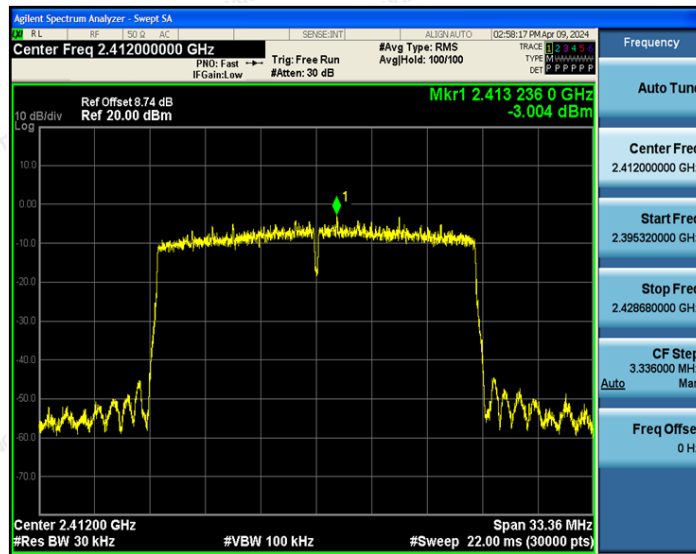
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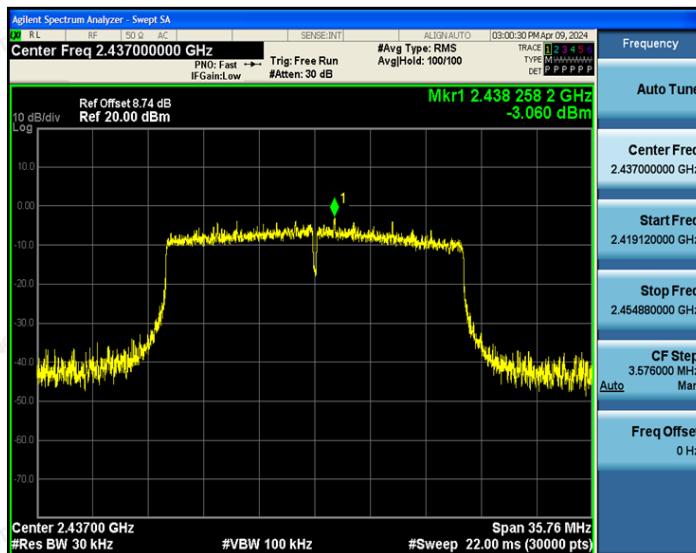


802.11ax (HT20) Modulation

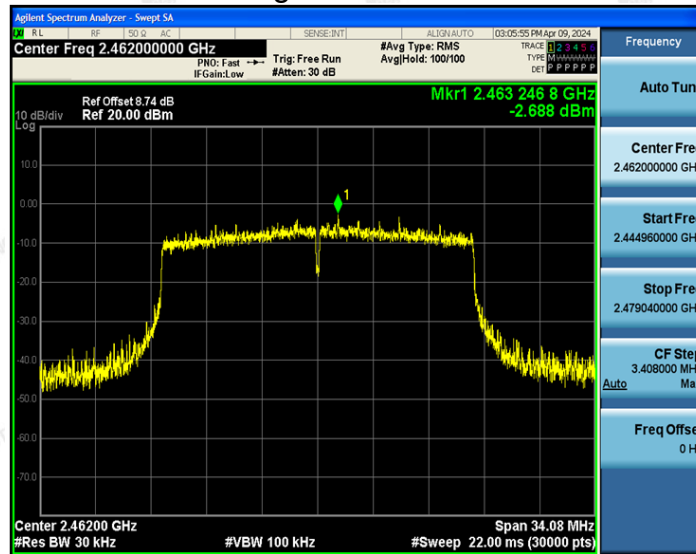
Lowest channel



Middle channel



Highest channel



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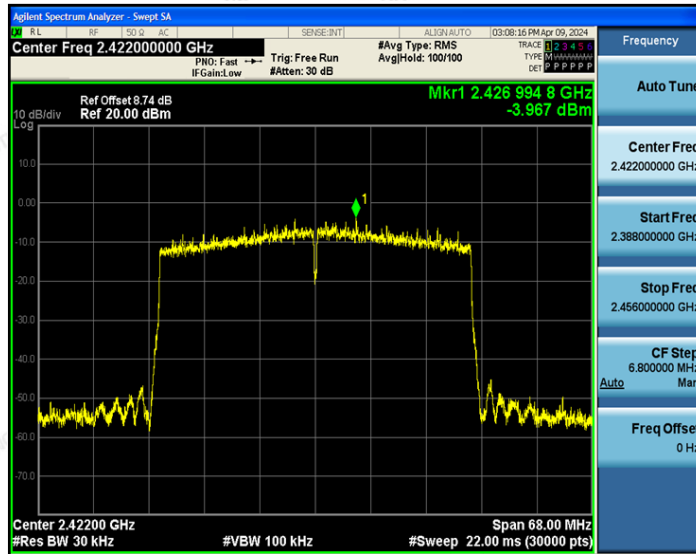
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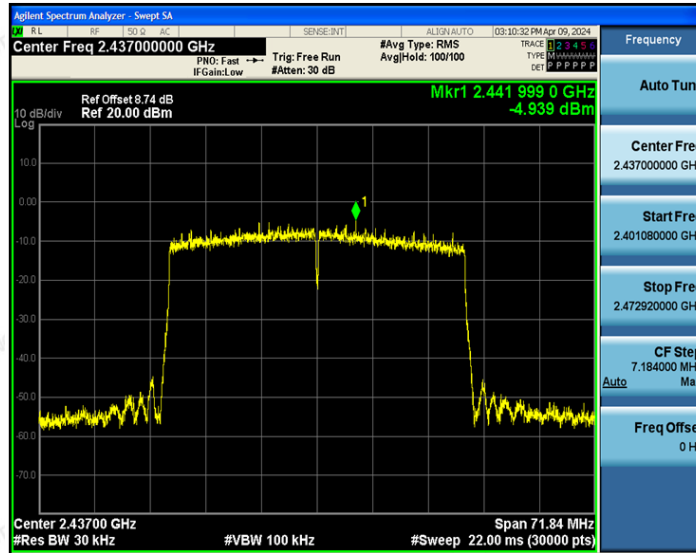


802.11ax (HT40) Modulation

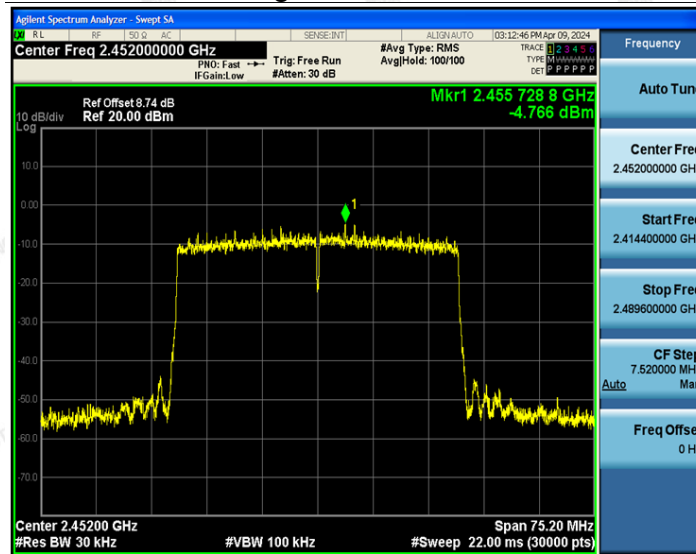
Lowest channel



Middle channel



Highest channel



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For MIMO antenna port 1+antenna port 2			
Frequency	Power Density (dBm)	Limit (dBm)	Result
TX 802.11n/HT20 Mode			
2412 MHz	-9.04	7.4	PASS
2437 MHz	-8.05	7.4	PASS
2462 MHz	-8.24	7.4	PASS
TX 802.11n/HT40 Mode			
2422 MHz	-10.48	7.4	PASS
2437 MHz	-10.25	7.4	PASS
2452 MHz	-10.72	7.4	PASS
TX 802.11ax/HT20 Mode			
2412 MHz	-9.54	7.4	PASS
2437 MHz	-9.50	7.4	PASS
2462 MHz	-9.14	7.4	PASS
TX 802.11ax/HT40 Mode			
2422 MHz	-10.45	7.4	PASS
2437 MHz	-10.87	7.4	PASS
2452 MHz	-11.22	7.4	PASS
Note: 1 According to KDB 662911, Result power = $10\log(10^{(ant1/10)} + 10^{(ant2/10)})$. 2 Result unit: W, The end result is converted to units of dBm. limit=8dBm-(direction gain-6dBi)=8-(3.59+10log2-6)=7.4dBm			

Note: This product supports antenna 1, and antenna 2 launch, but only support 802.11 n/802.11ax for MIMO mode, not support 802.11 b and 802.11 g for MIMO mode.



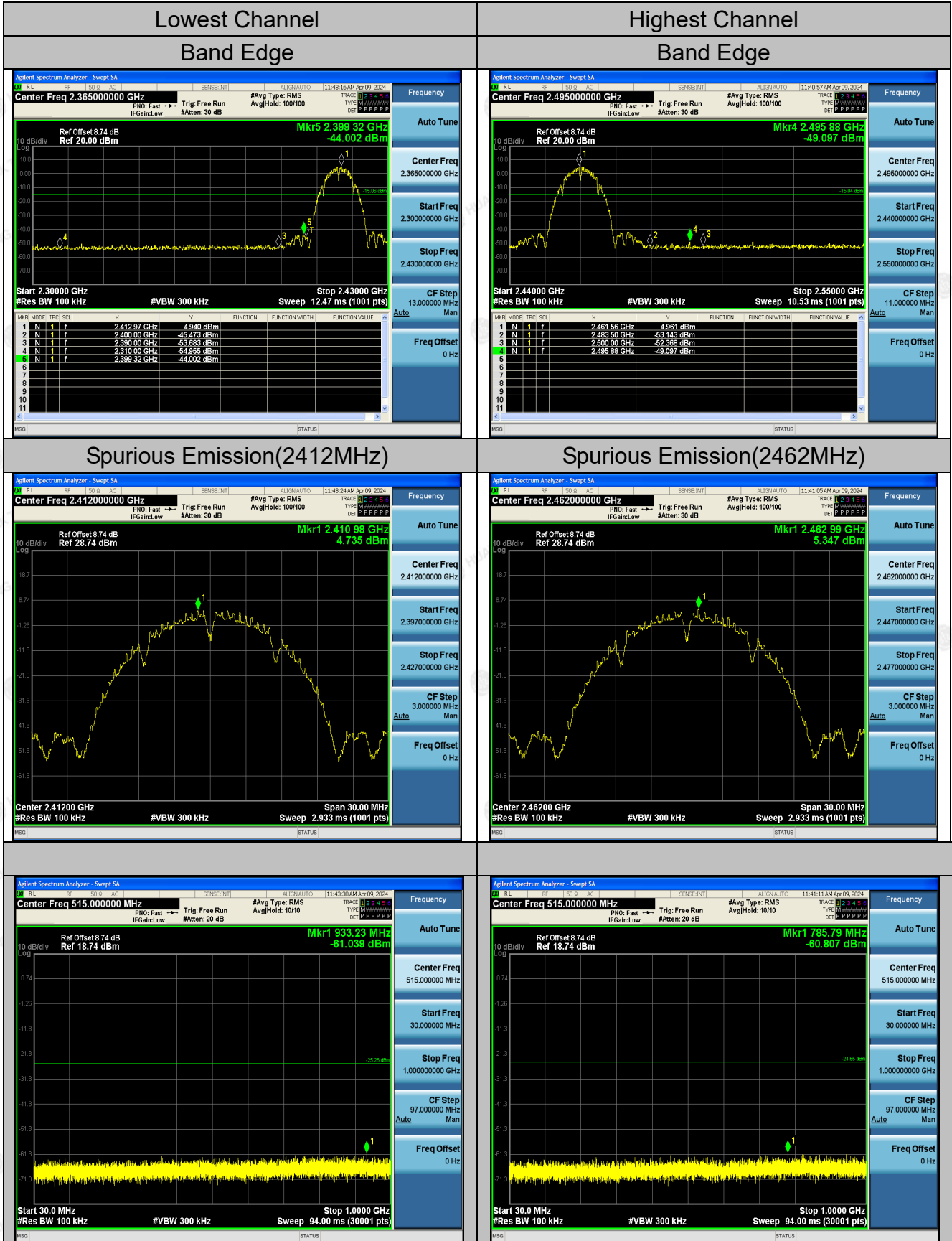
4.5.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



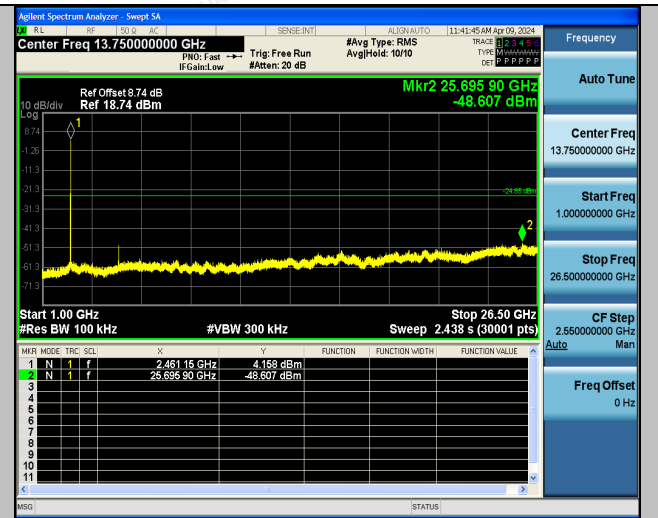
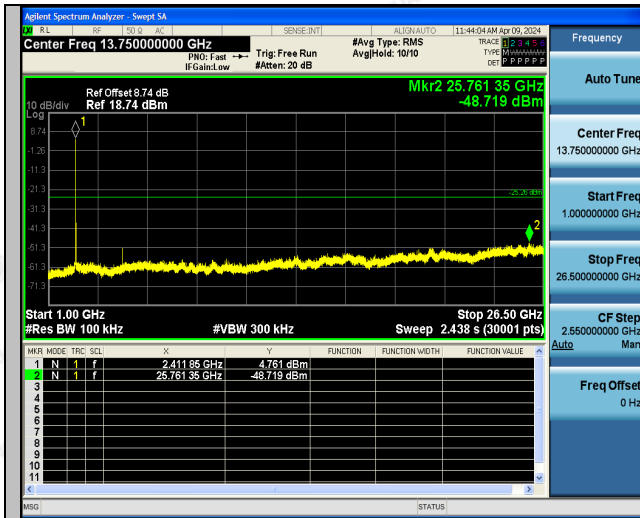
4.5.3. Test Data
Chain 1
802.11b Modulation



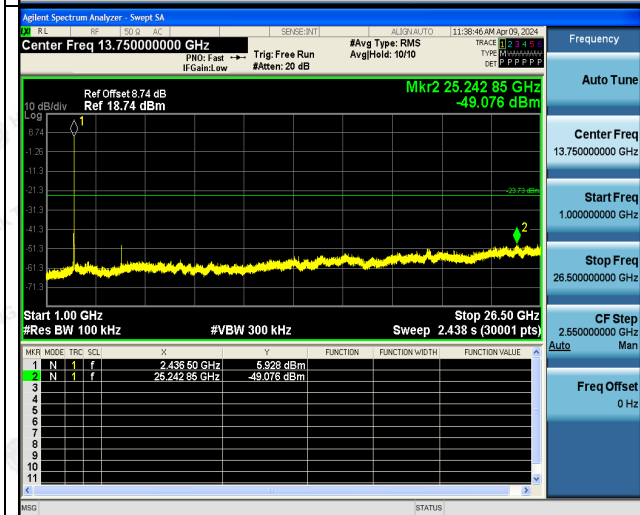
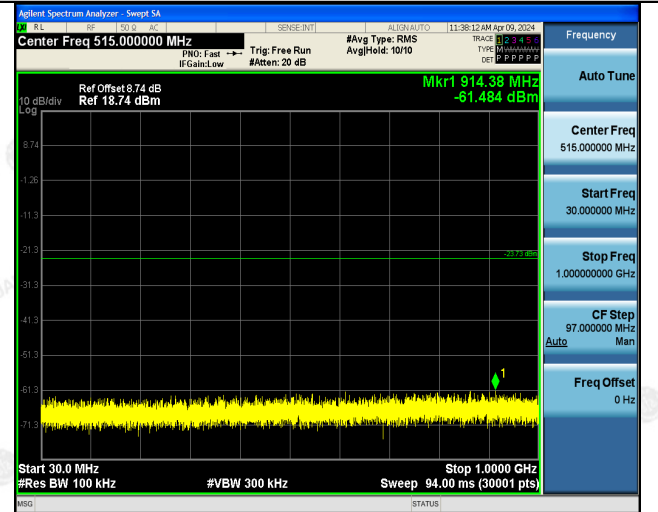
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Spurious Emission(2437MHz)



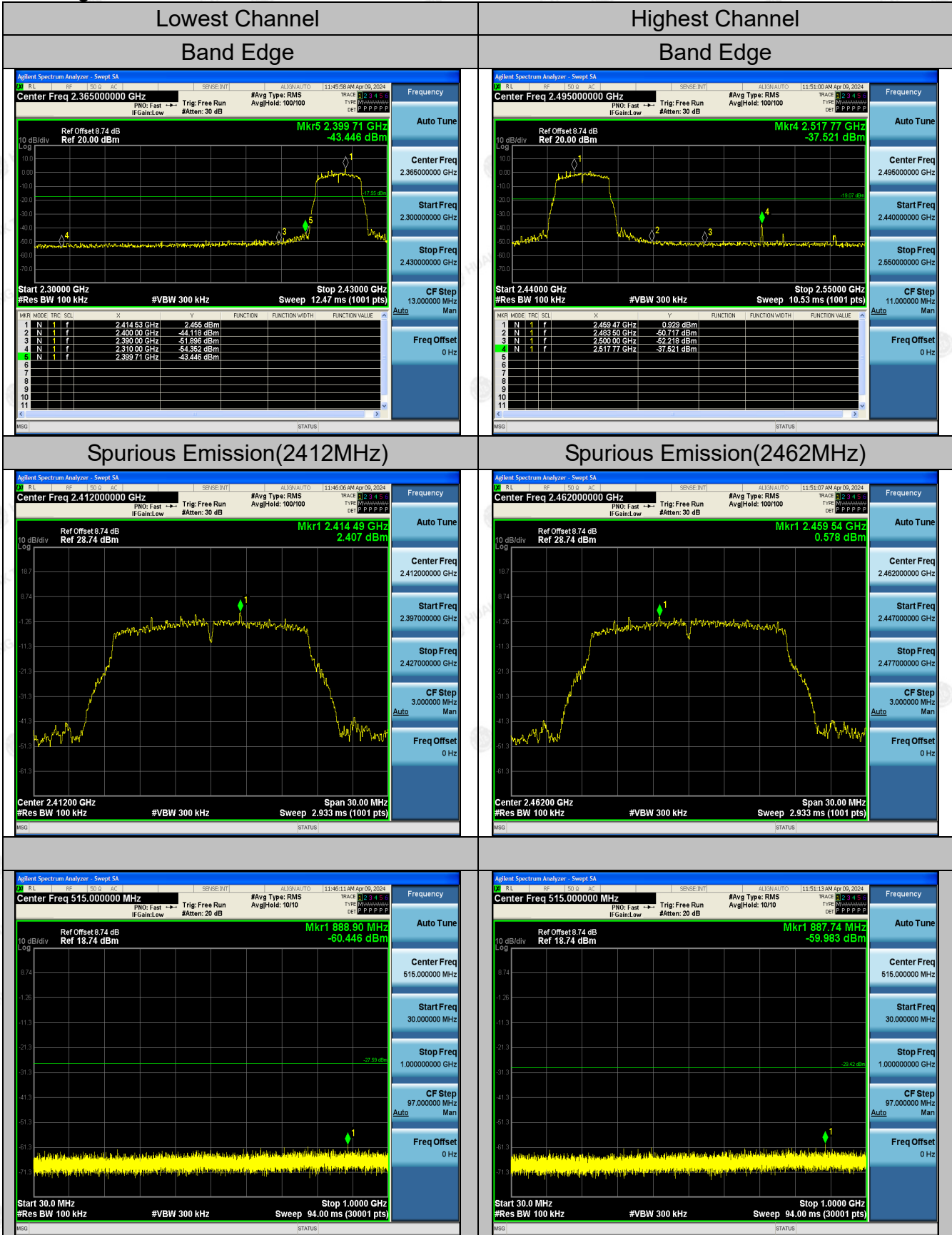
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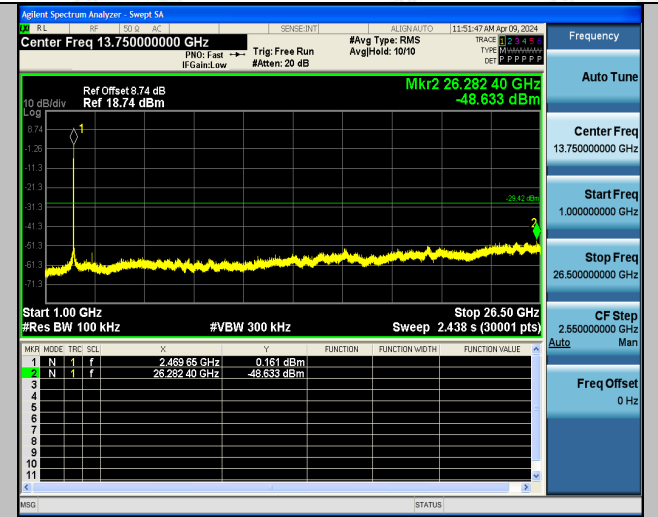
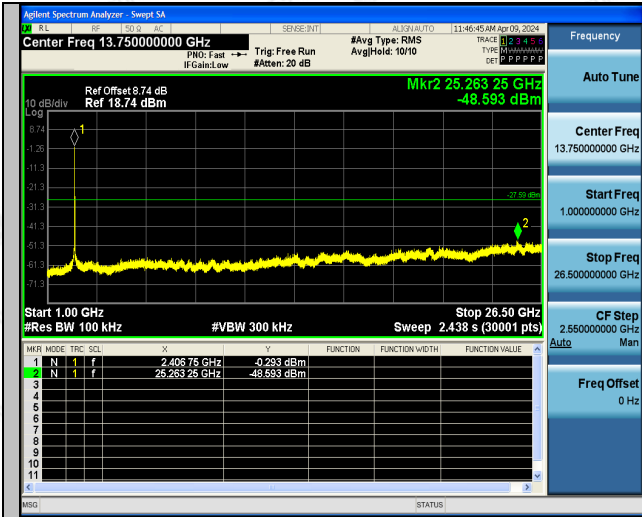
802.11g Modulation



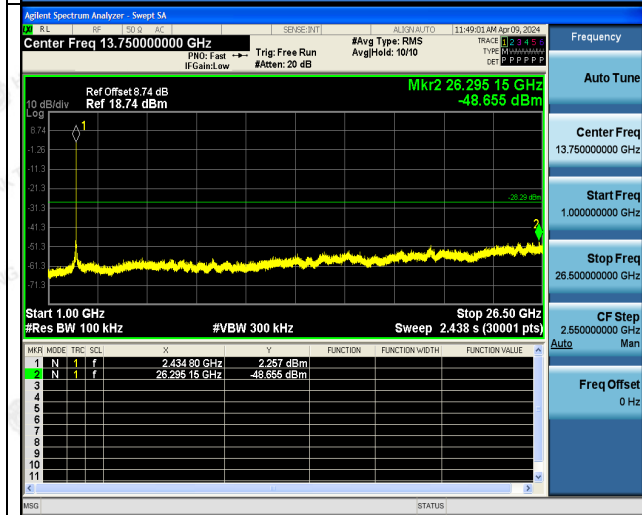
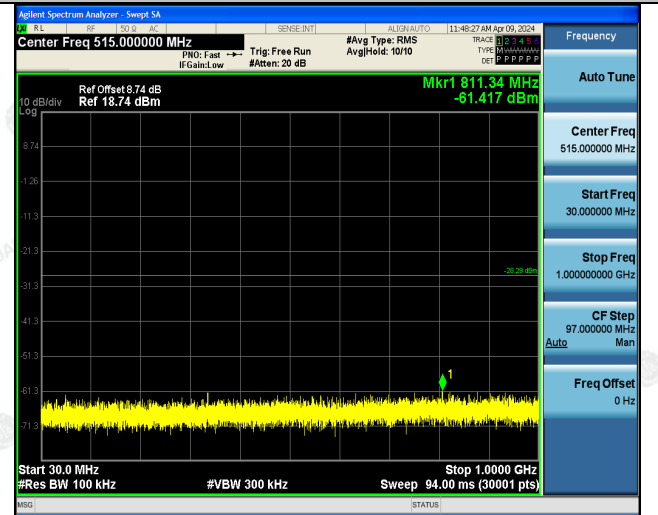
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Spurious Emission(2437MHz)



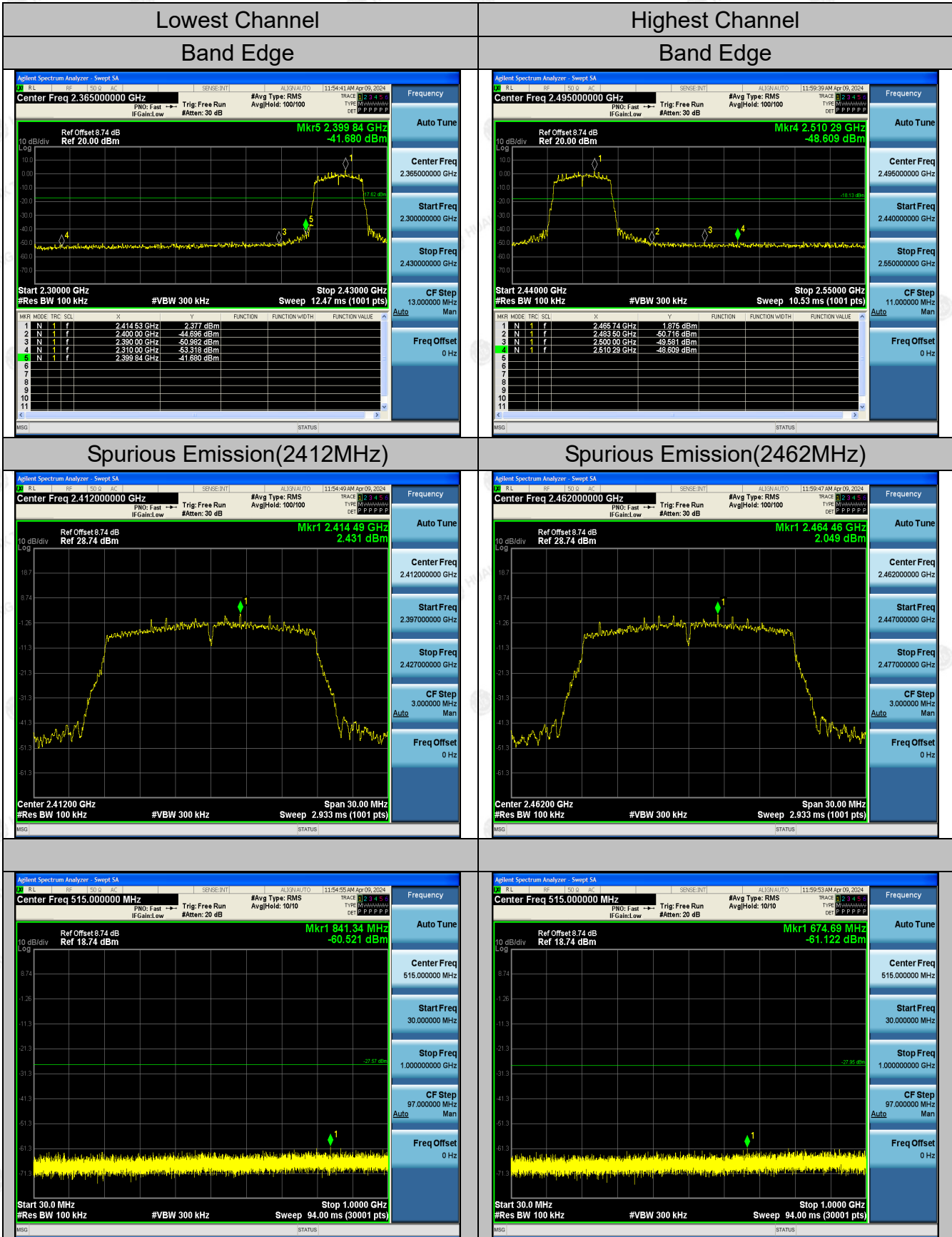
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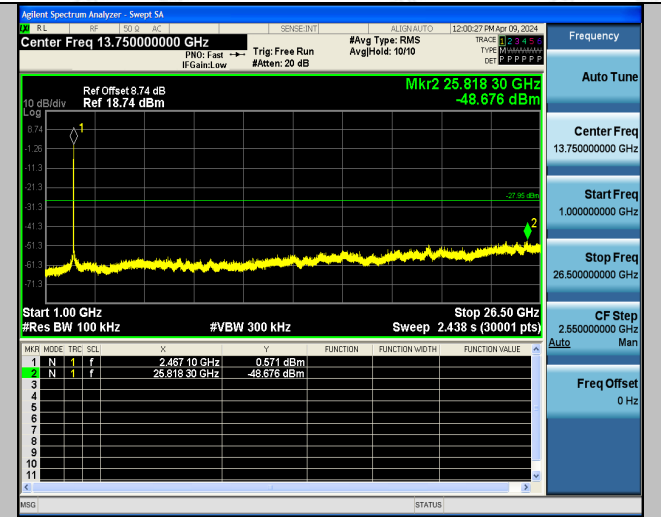
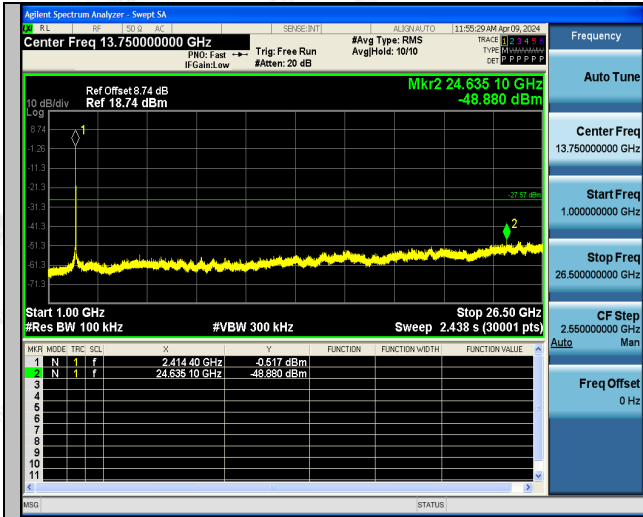
802.11n (HT20) Modulation



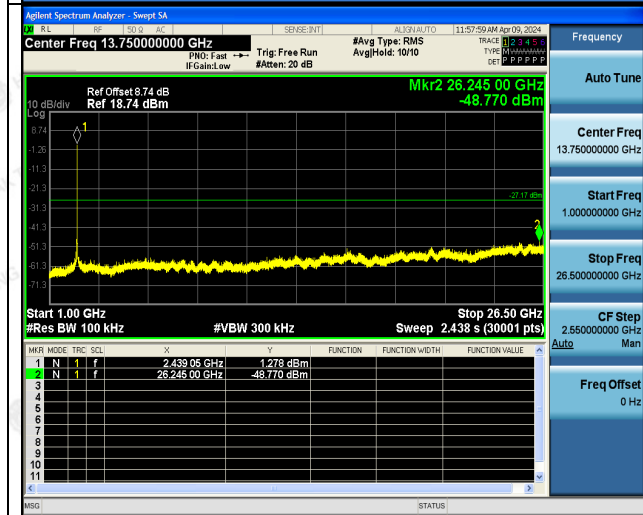
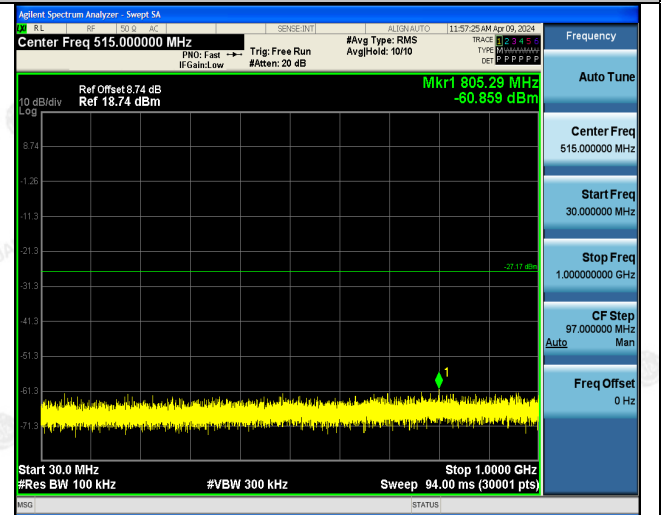
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Spurious Emission(2437MHz)



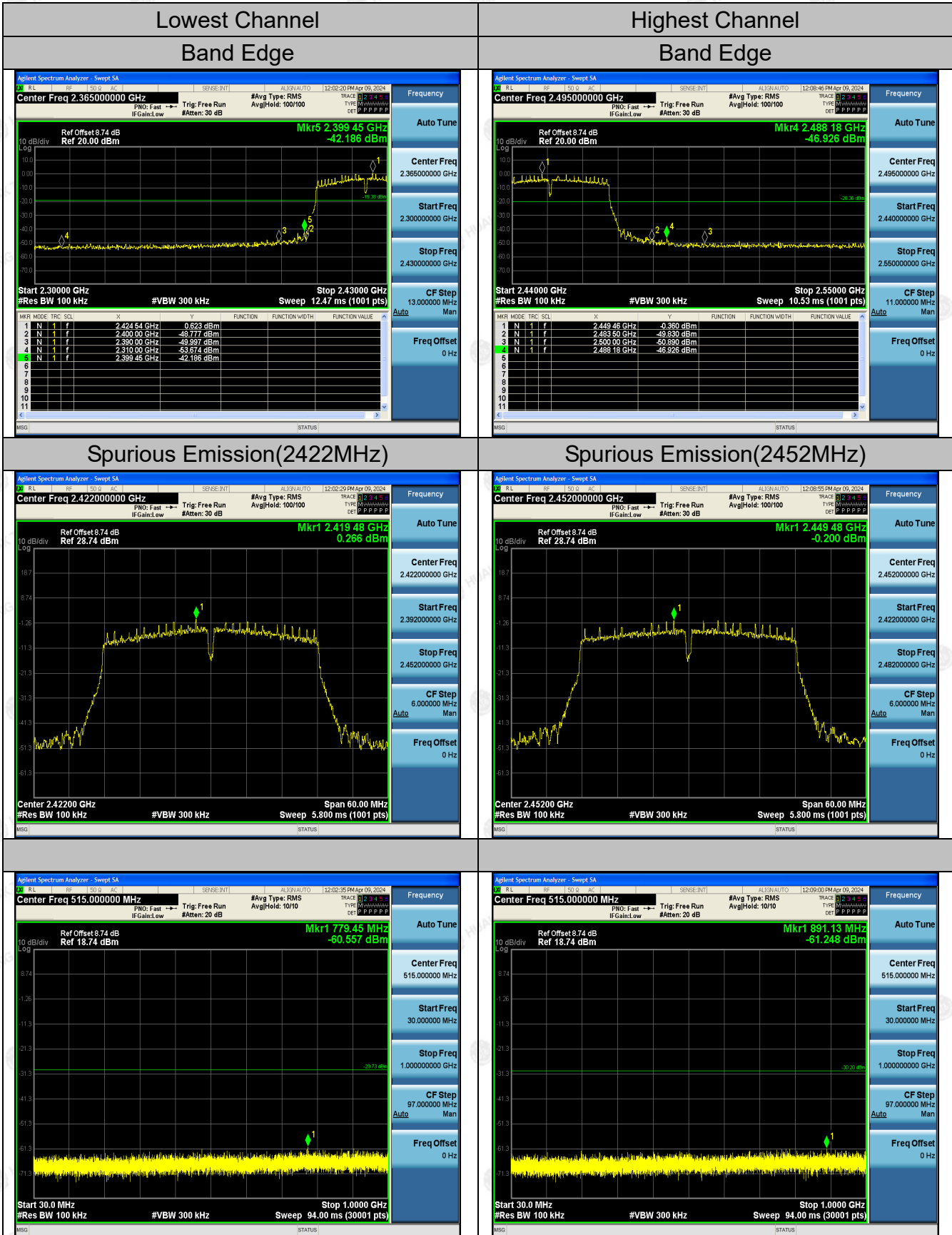
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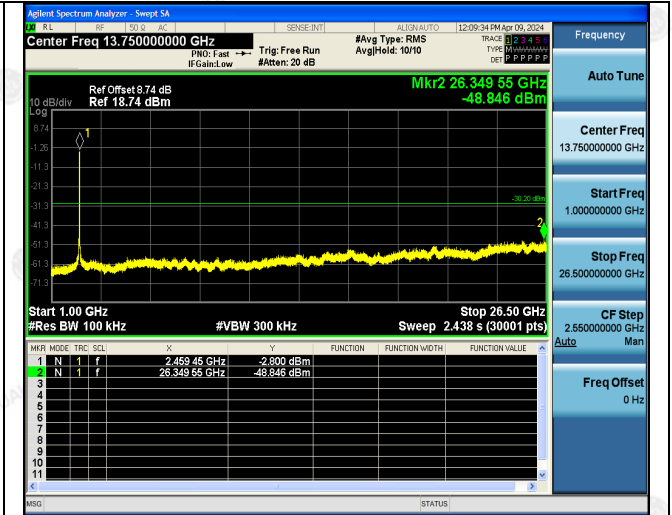
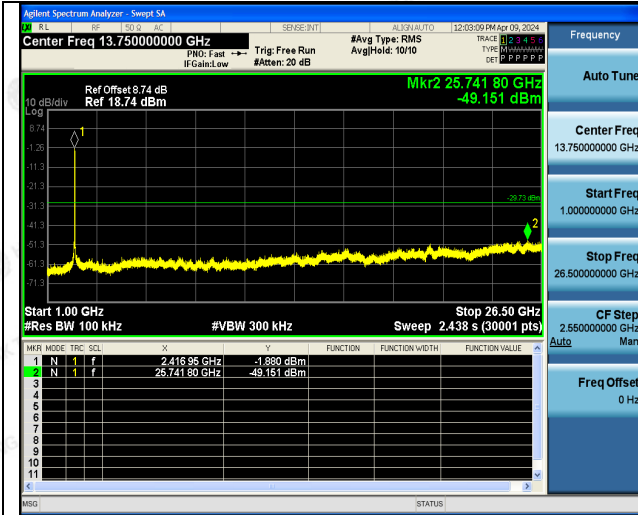
802.11n (HT40) Modulation



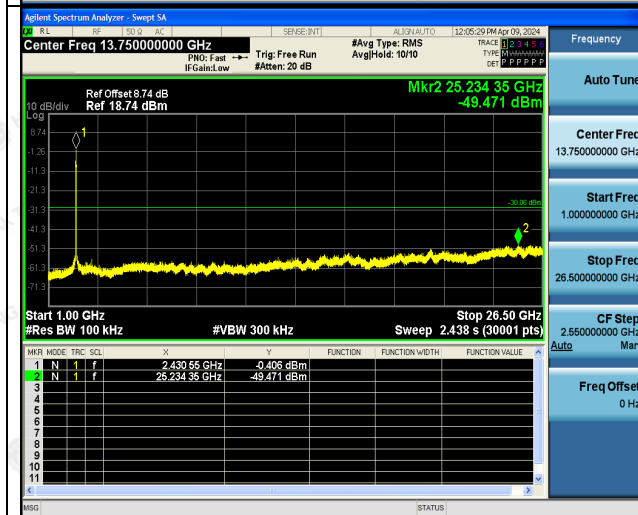
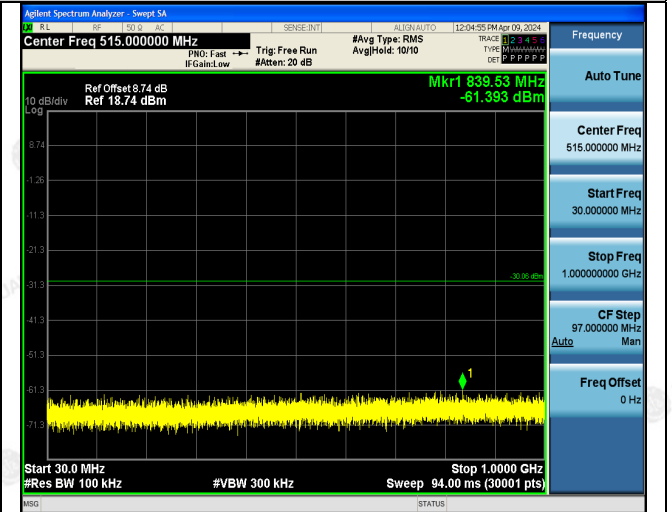
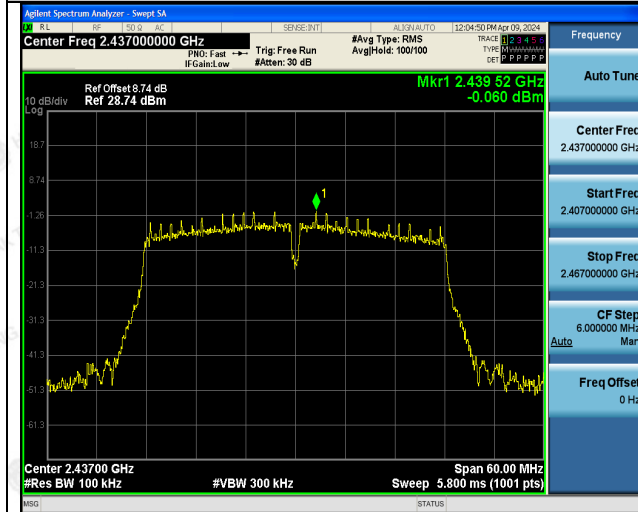
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Spurious Emission(2437MHz)



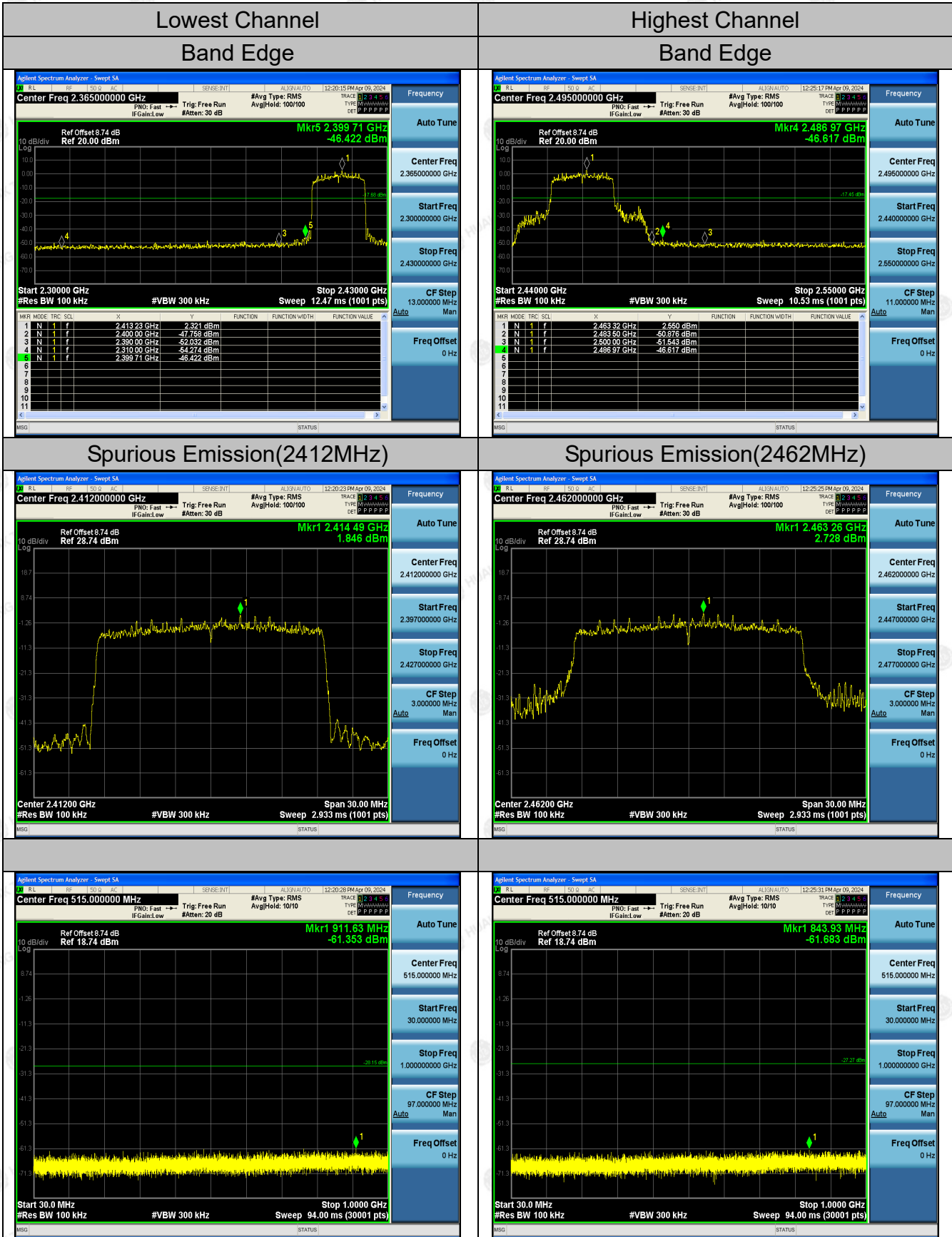
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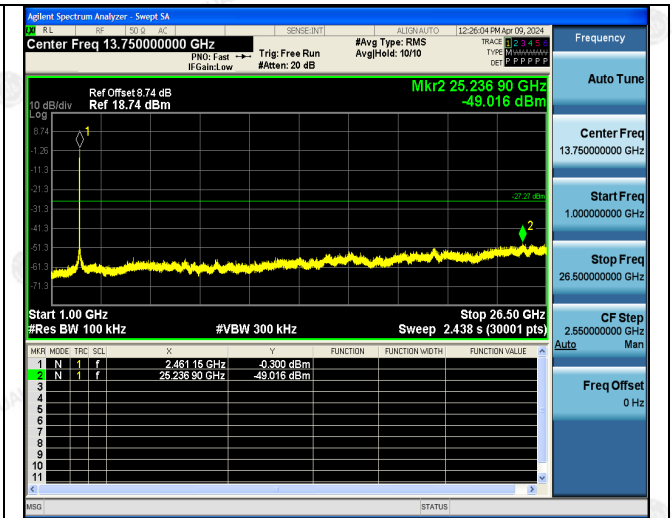
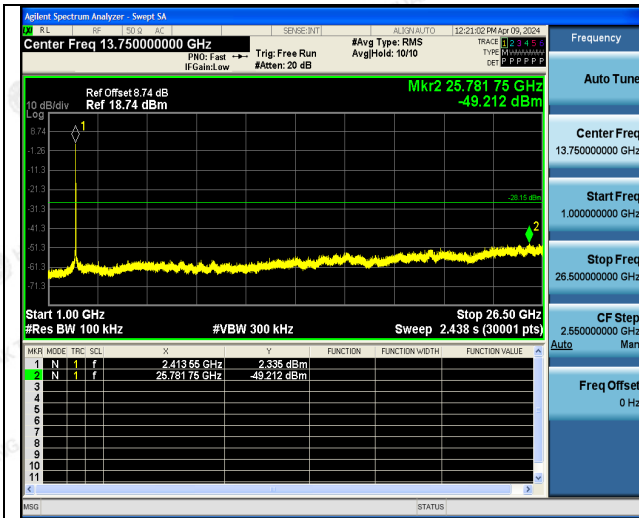
802.11ax (HT20) Modulation



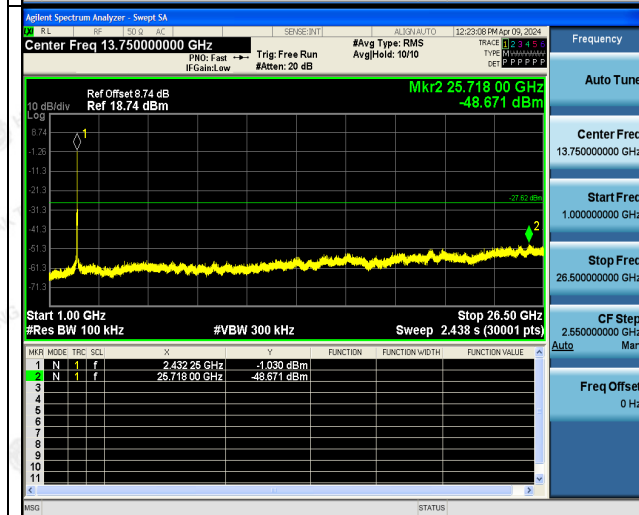
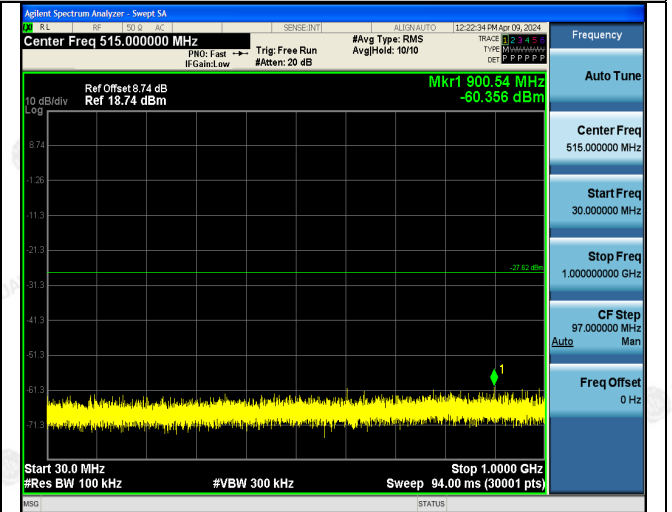
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Spurious Emission(2437MHz)



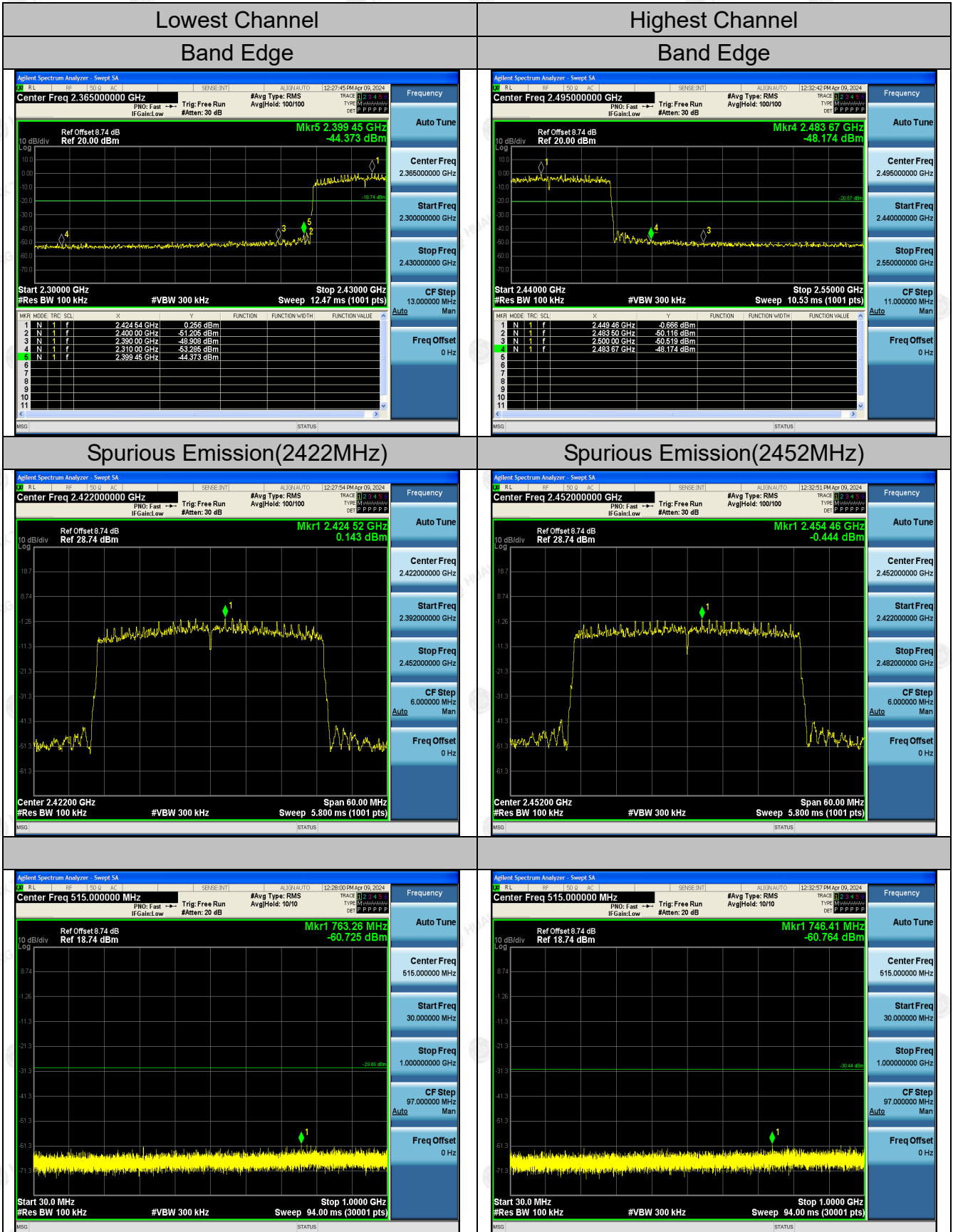
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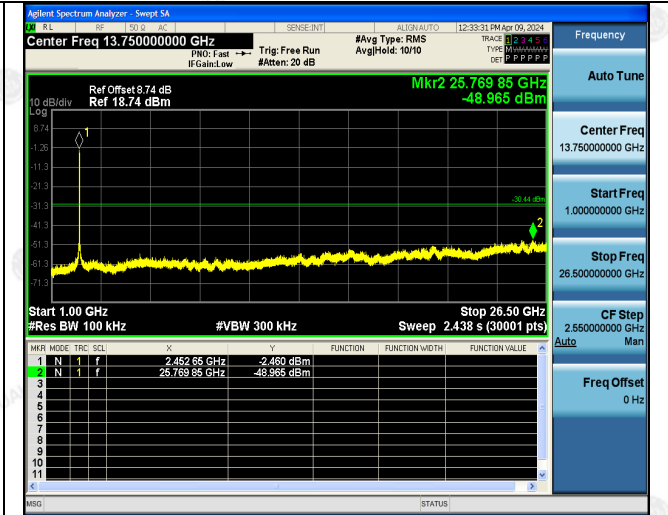
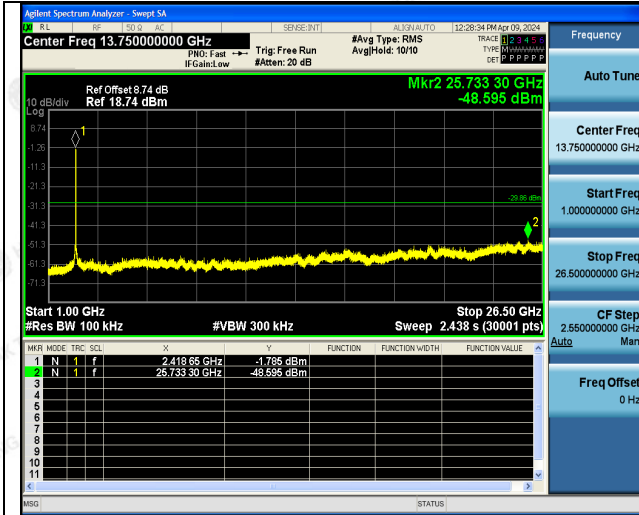
802.11ax (HT40) Modulation



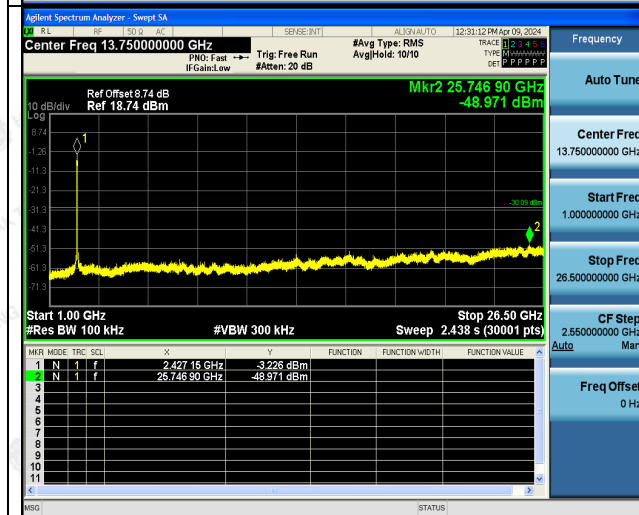
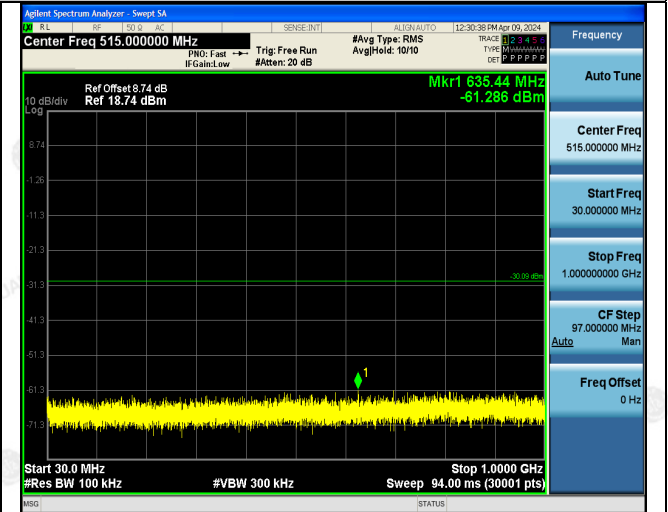
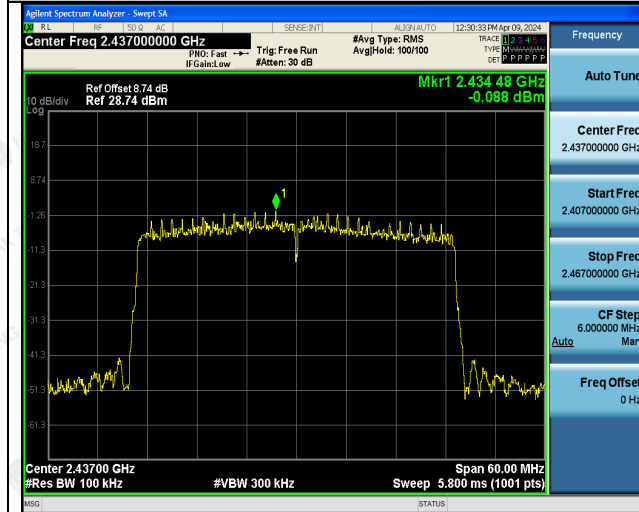
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Spurious Emission(2437MHz)



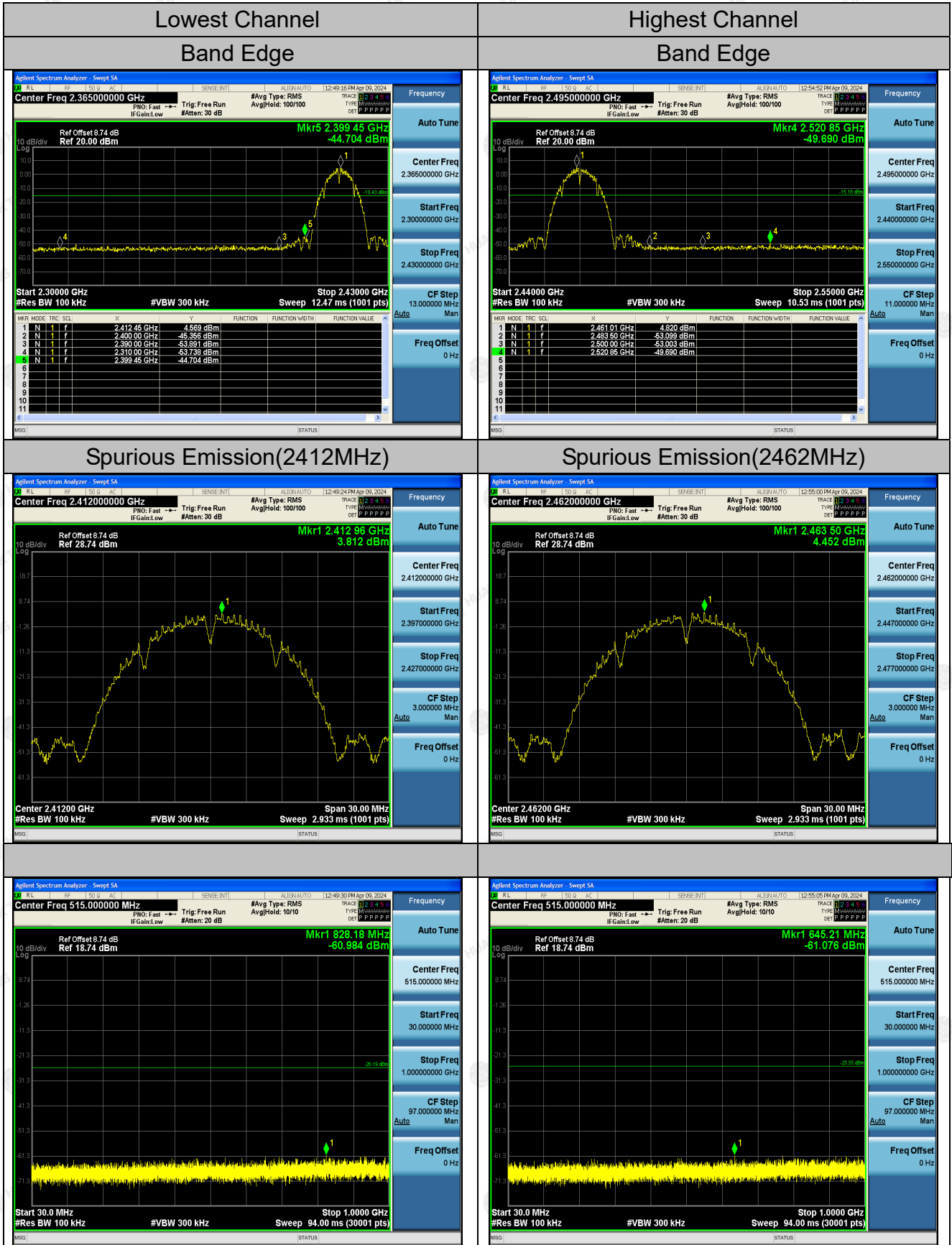
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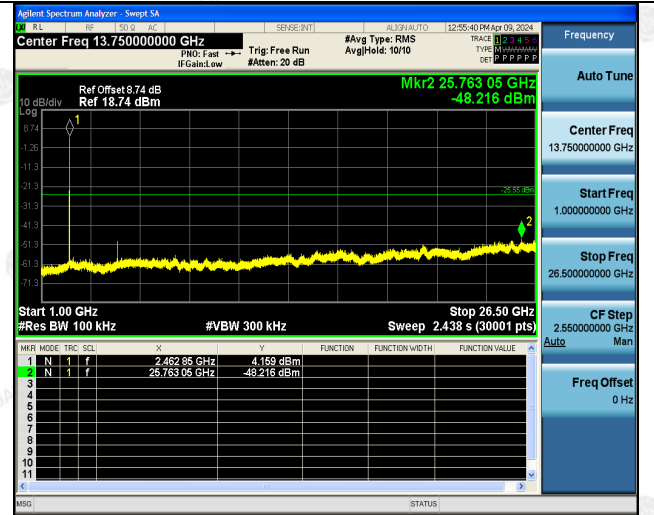
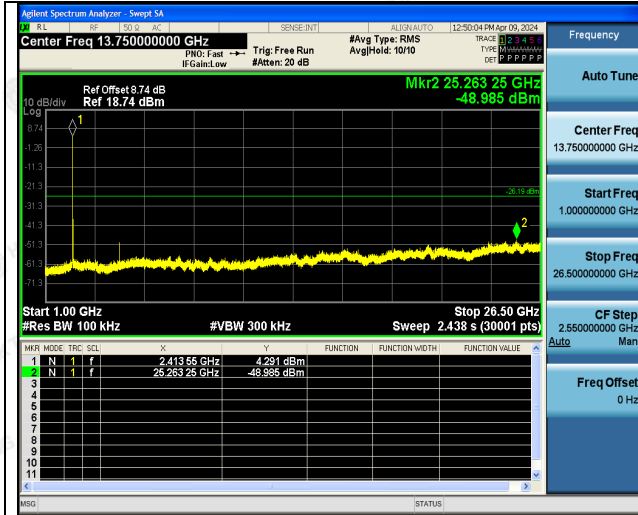
Chain 2
802.11b Modulation



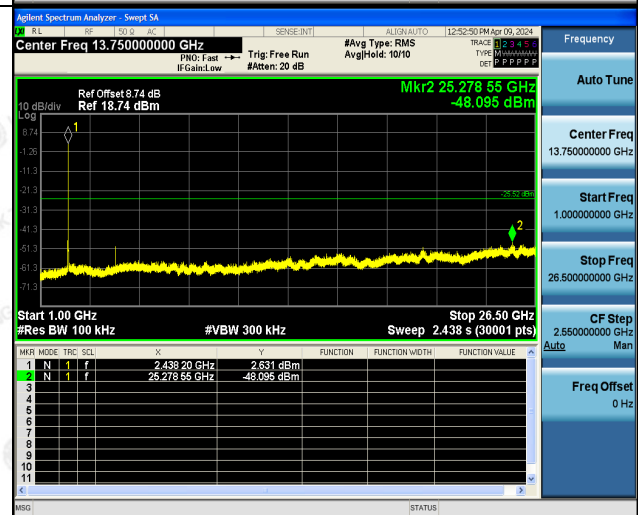
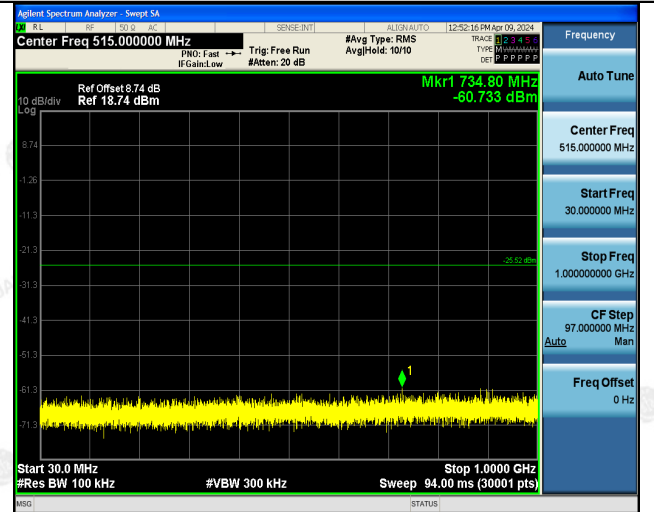
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Spurious Emission(2437MHz)



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