

### 4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; MCS0 of rate is the worst case of 802.11N(HT20) ; MCS0 of rate is the worst case of 802.11N(HT40). MCS0 of rate is the worst case of 802.11AX(HT20). MCS0 of rate is the worst case of 802.11AX(HT40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



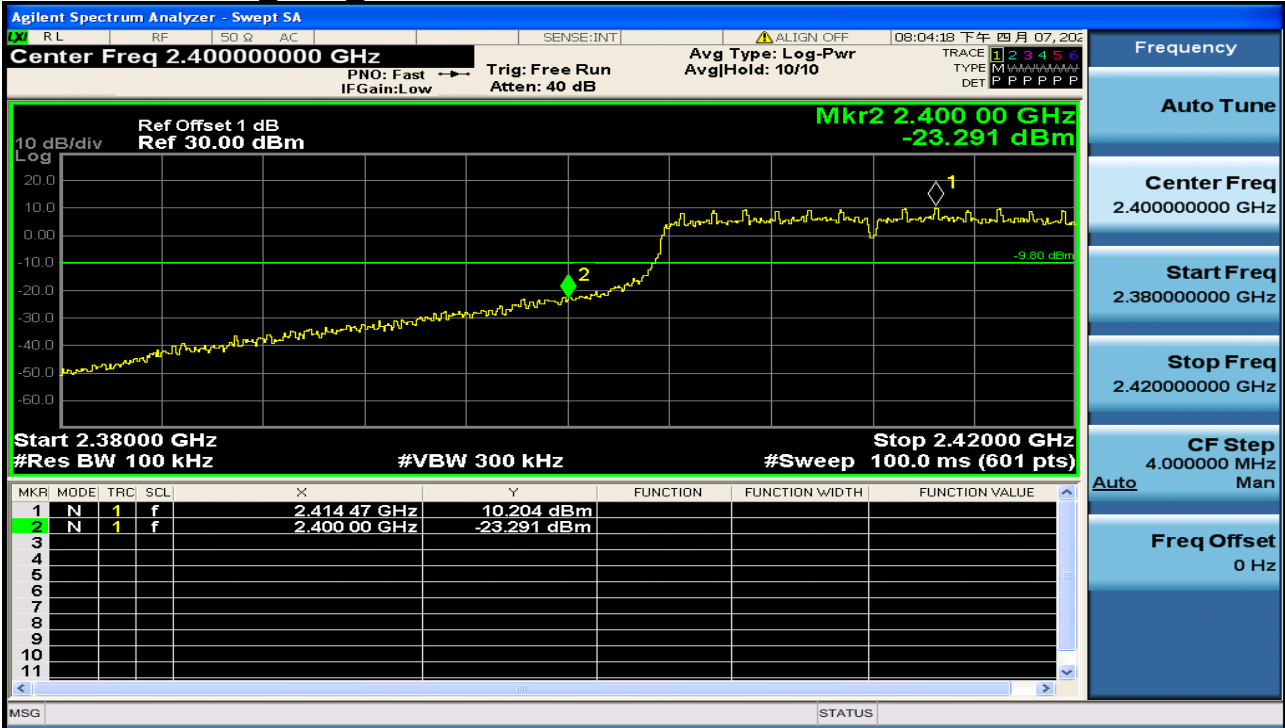
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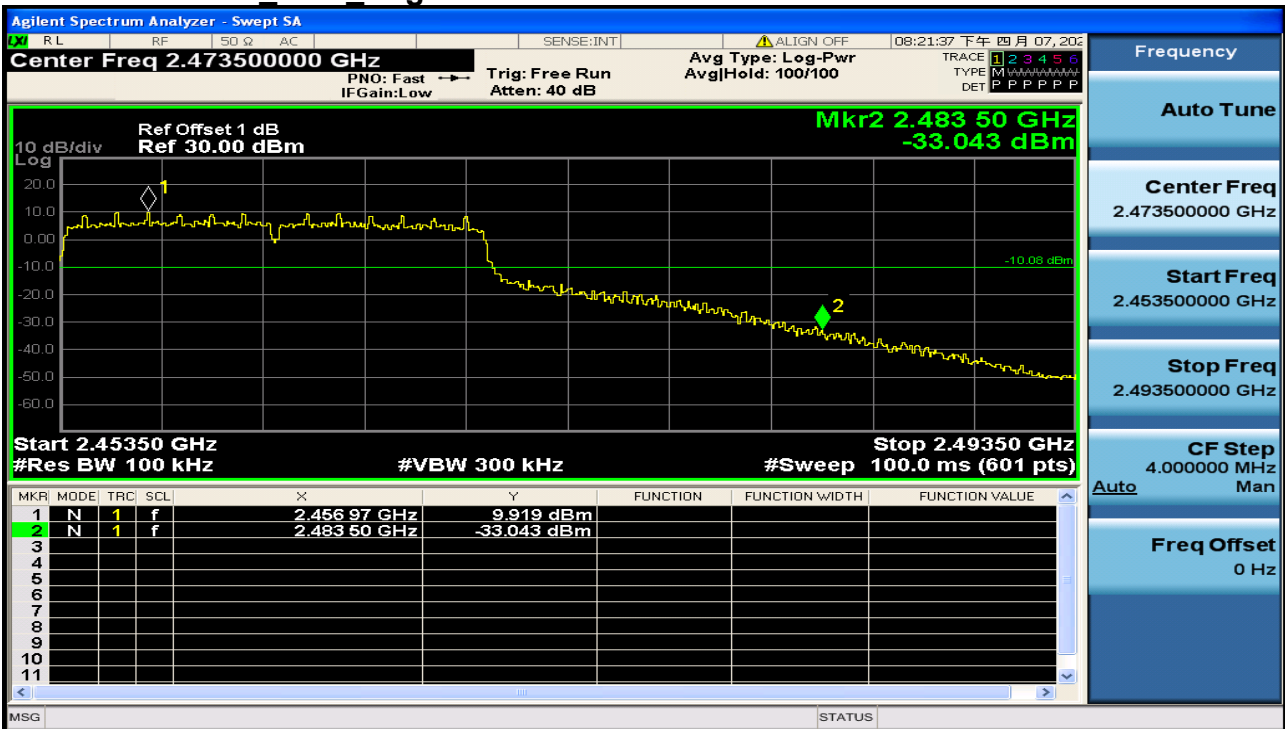
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 Shenzhen Branch, Technical Services Co., Ltd. Laboratory. 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



4.7.1 Test plots  
 4.7.1.1 CDD & MIMO\_ANT1  
 4.7.1.1.1 802.11G\_CDD\_Lowest Channel



4.7.1.1.2 802.11G\_CDD\_Highest Channel

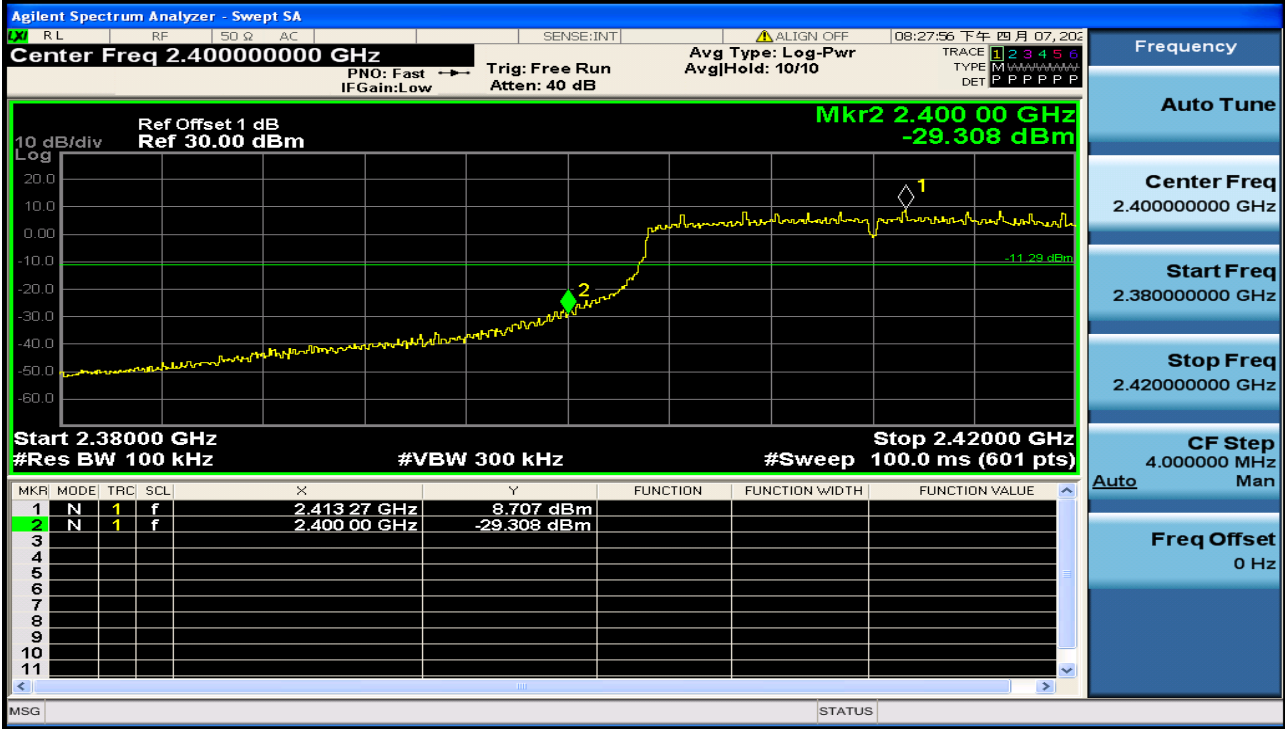


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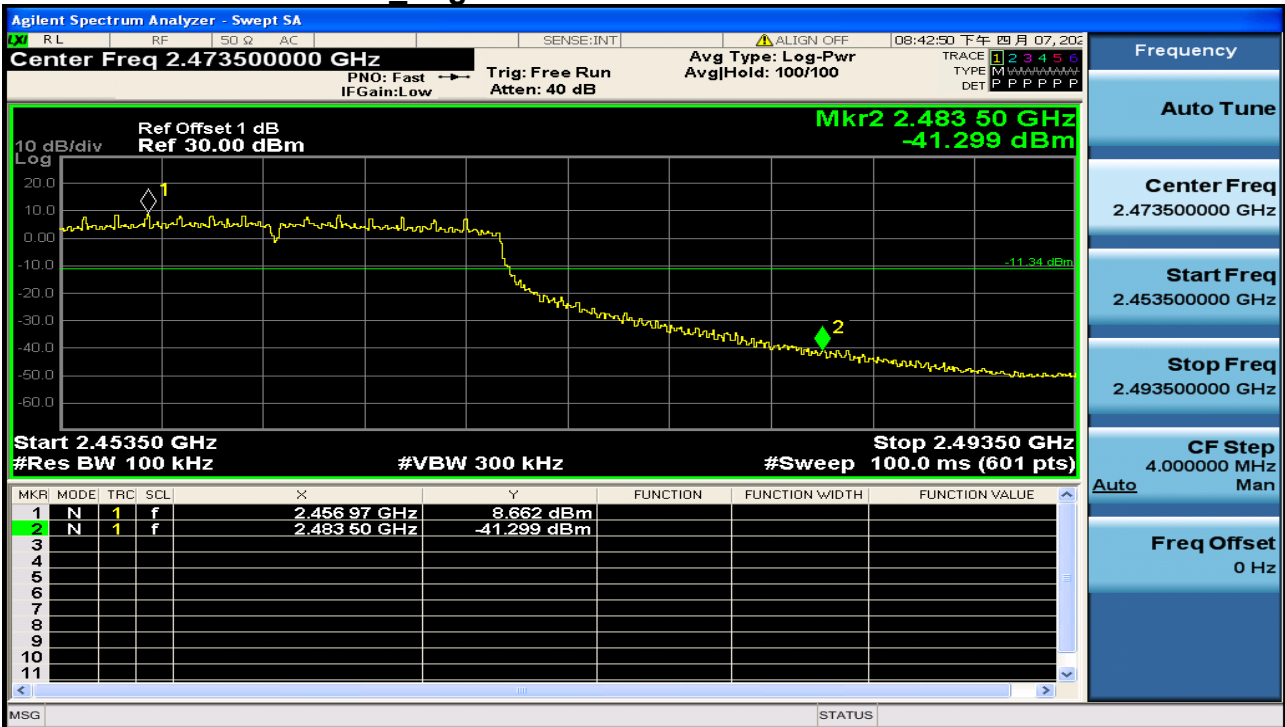
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4.7.1.1.3 802.11N20MIMO\_Lowest Channel



4.7.1.1.4 802.11 N20MIMO\_Highest Channel

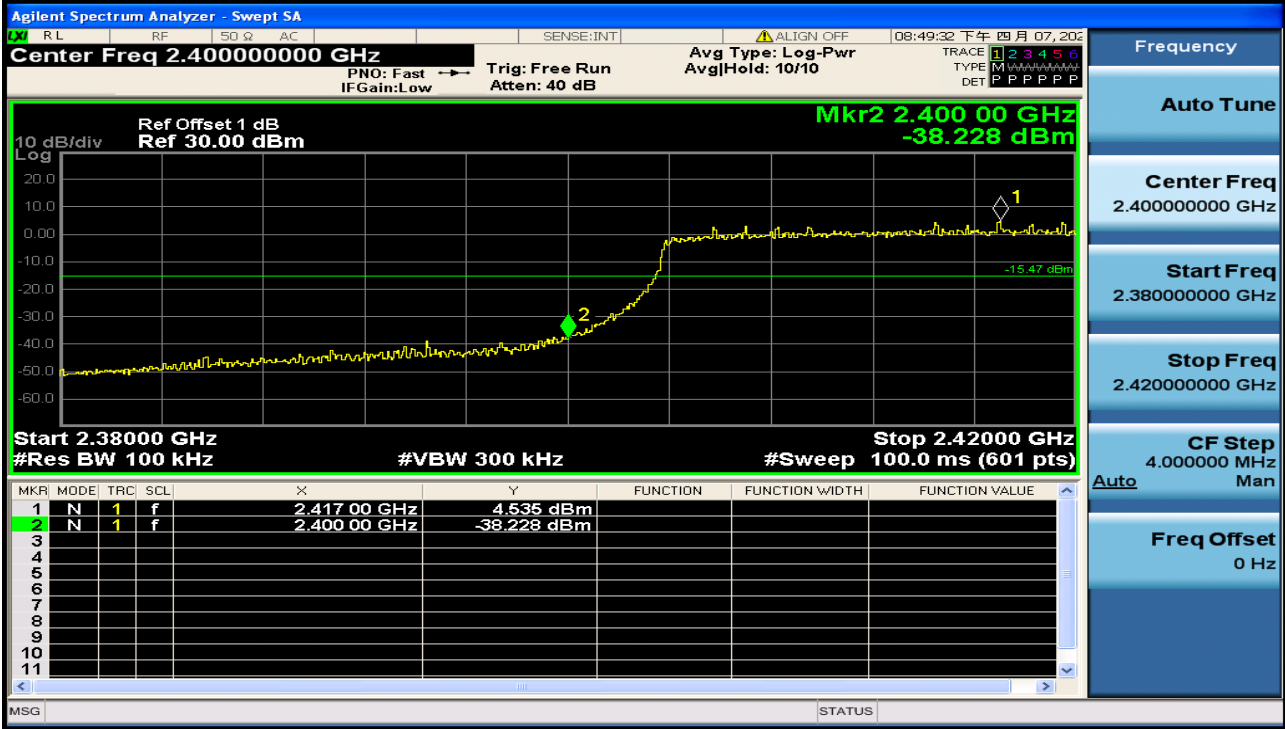


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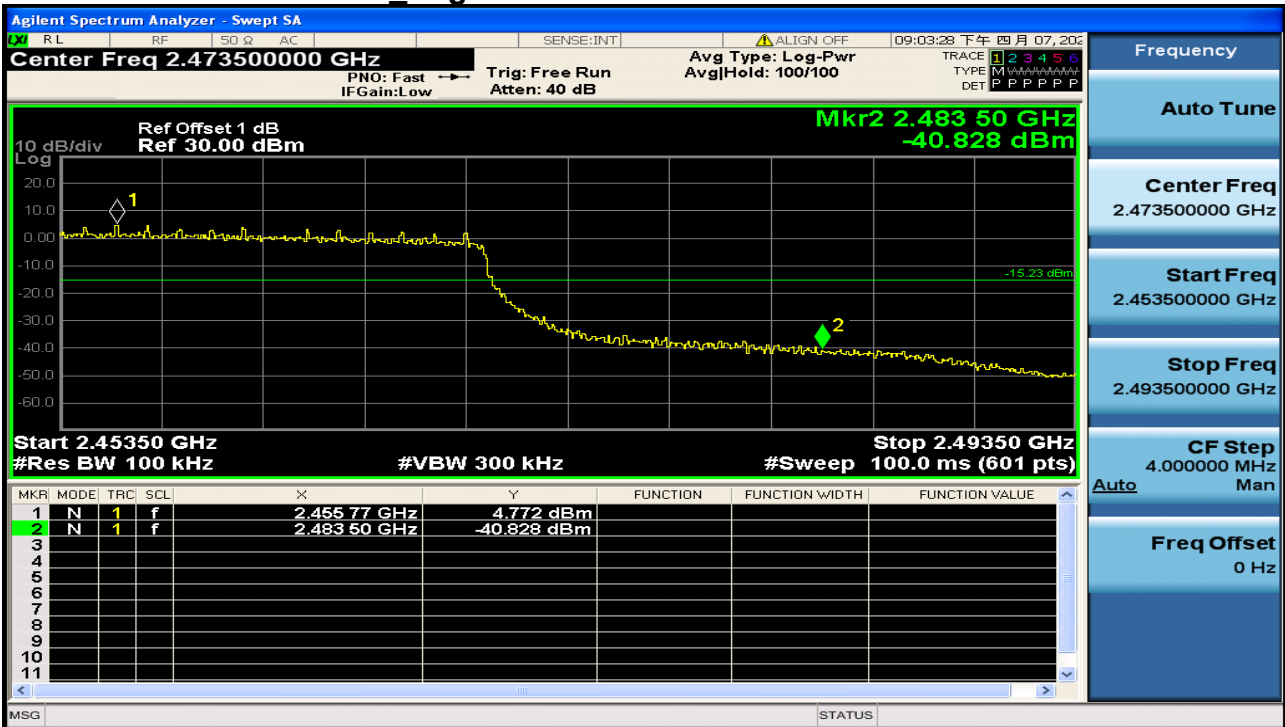
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4.7.1.1.5 802.11N40MIMO\_Lowest Channel



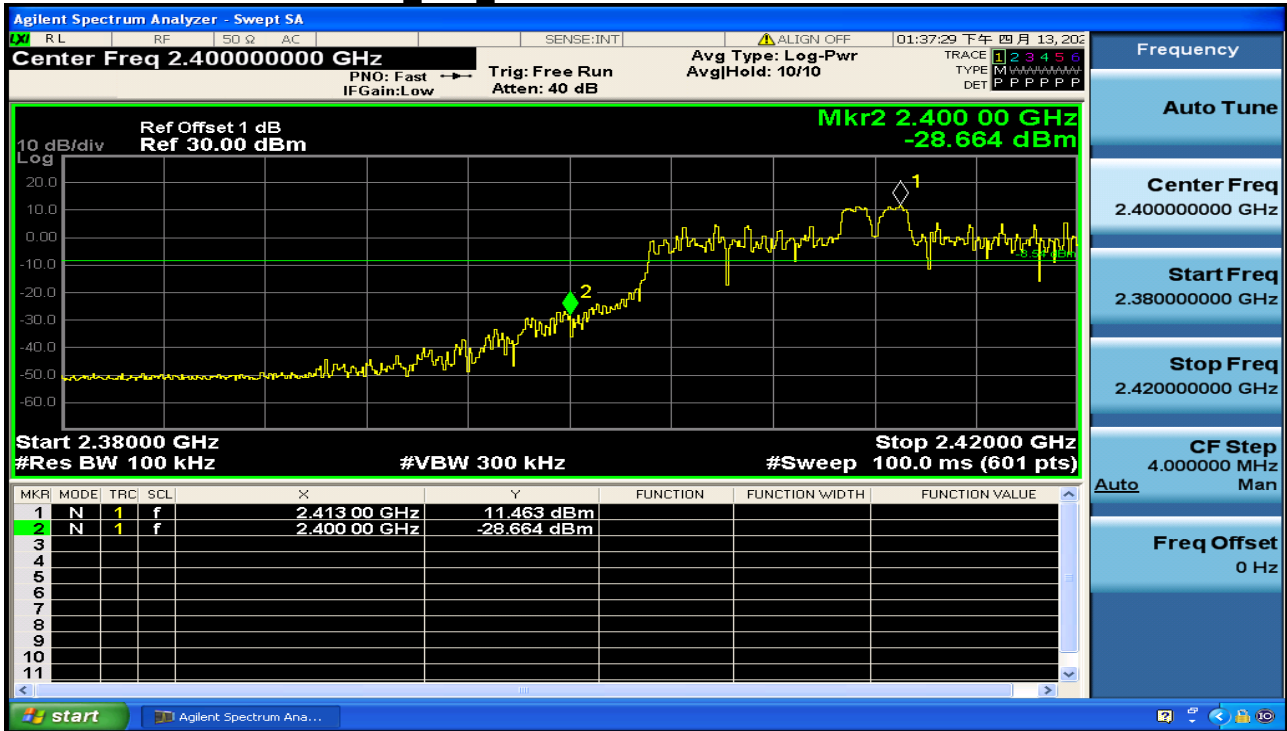
4.7.1.1.6 802.11 N40MIMO\_Highest Channel



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**4.7.1.1.7 802.11AX20MIMO\_26T\_Lowest Channel**

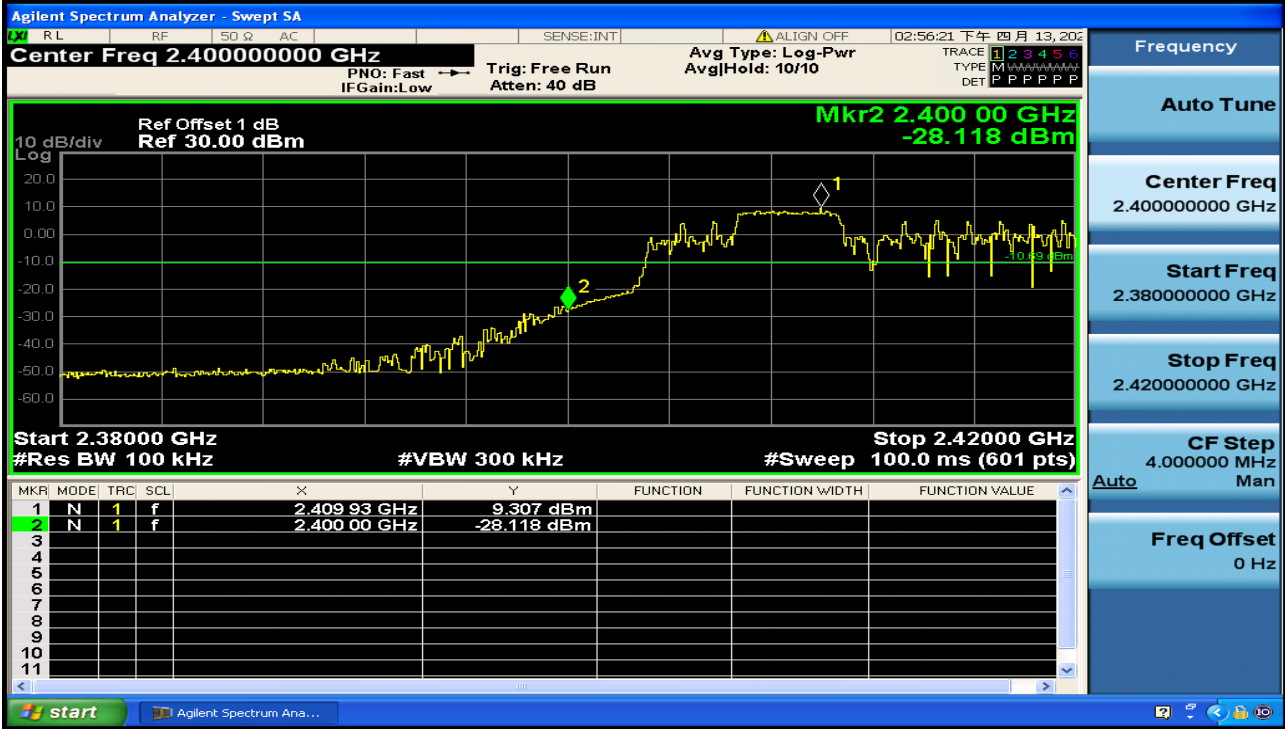


**4.7.1.1.8 802.11AX20MIMO\_26T\_Highest Channel**

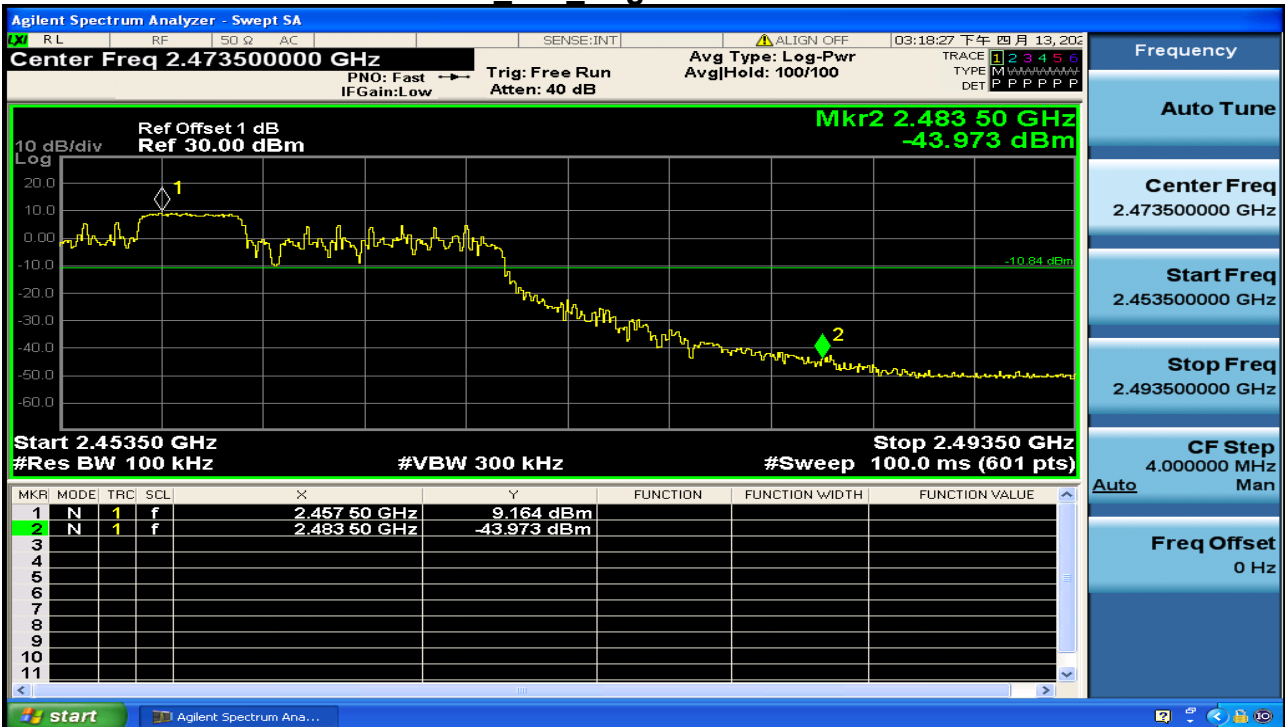




4.7.1.1.9 802.11AX20MIMO\_52T\_Lowest Channel



4.7.1.1.10 802.11AX20MIMO\_52T\_Highest Channel

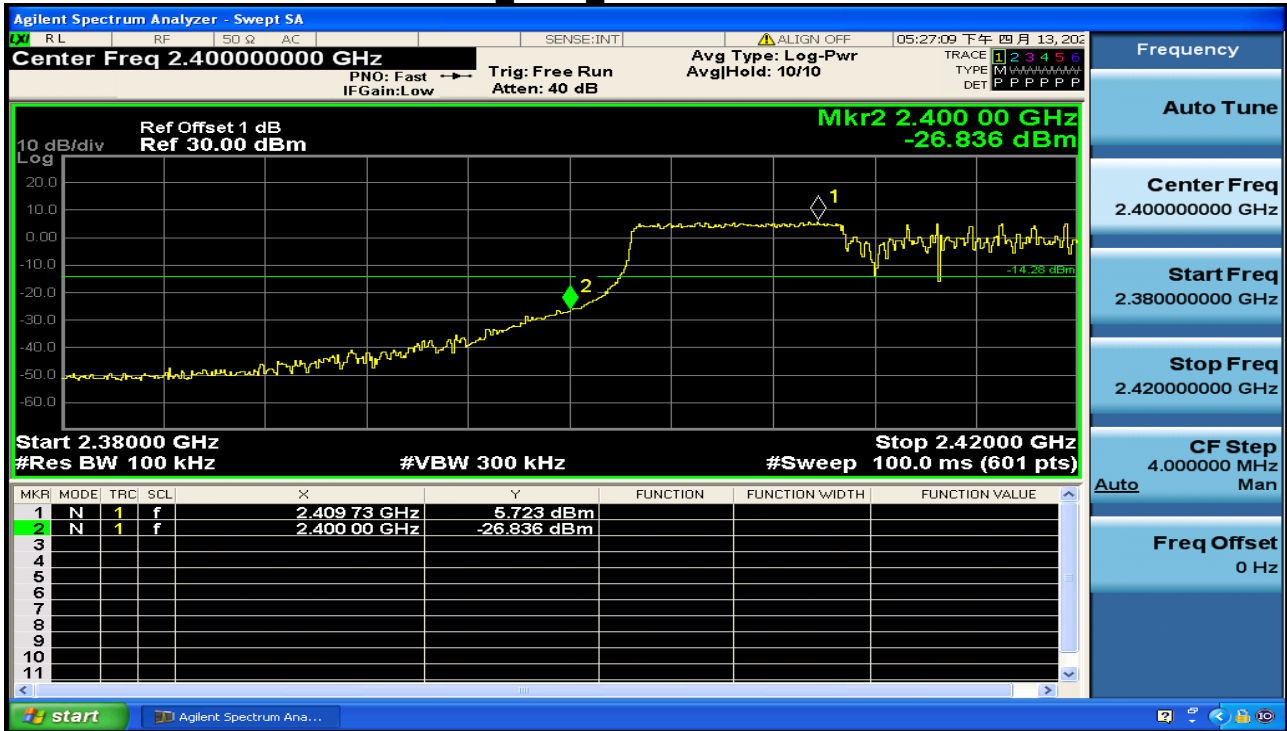


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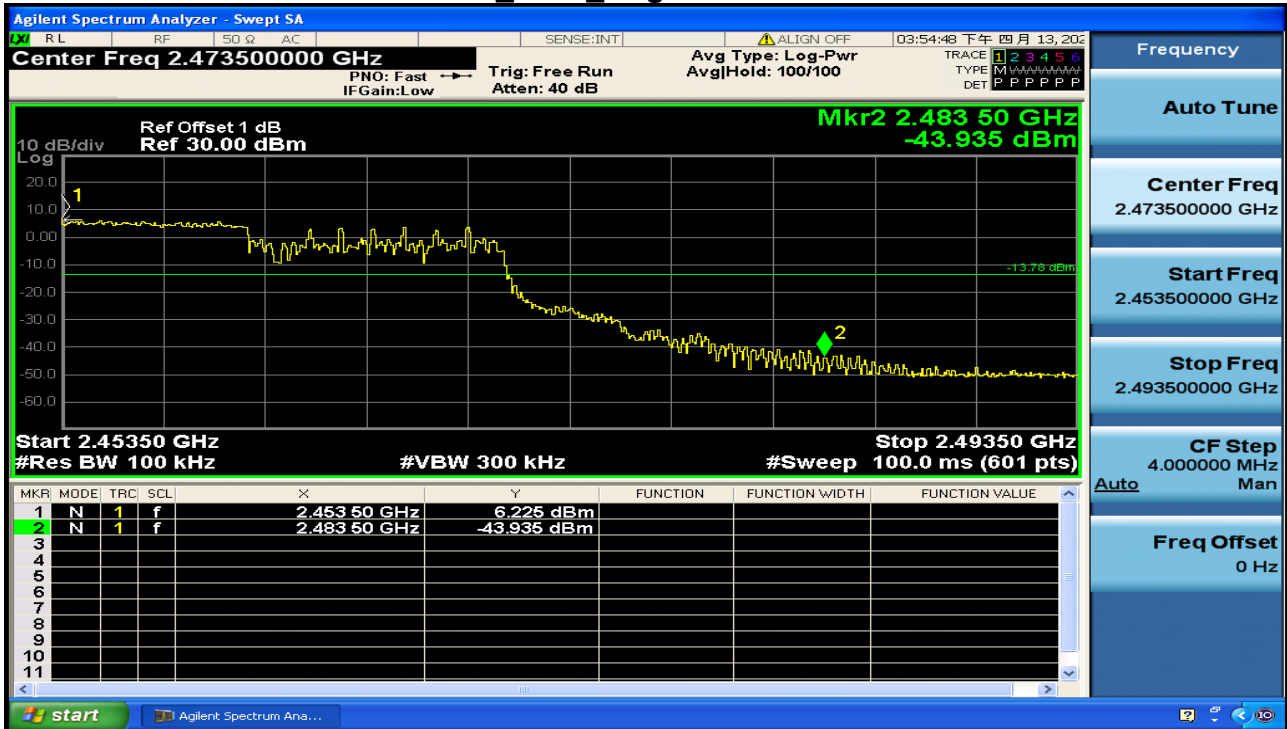
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4.7.1.1.11 802.11AX20MIMO\_106T\_Lowest Channel

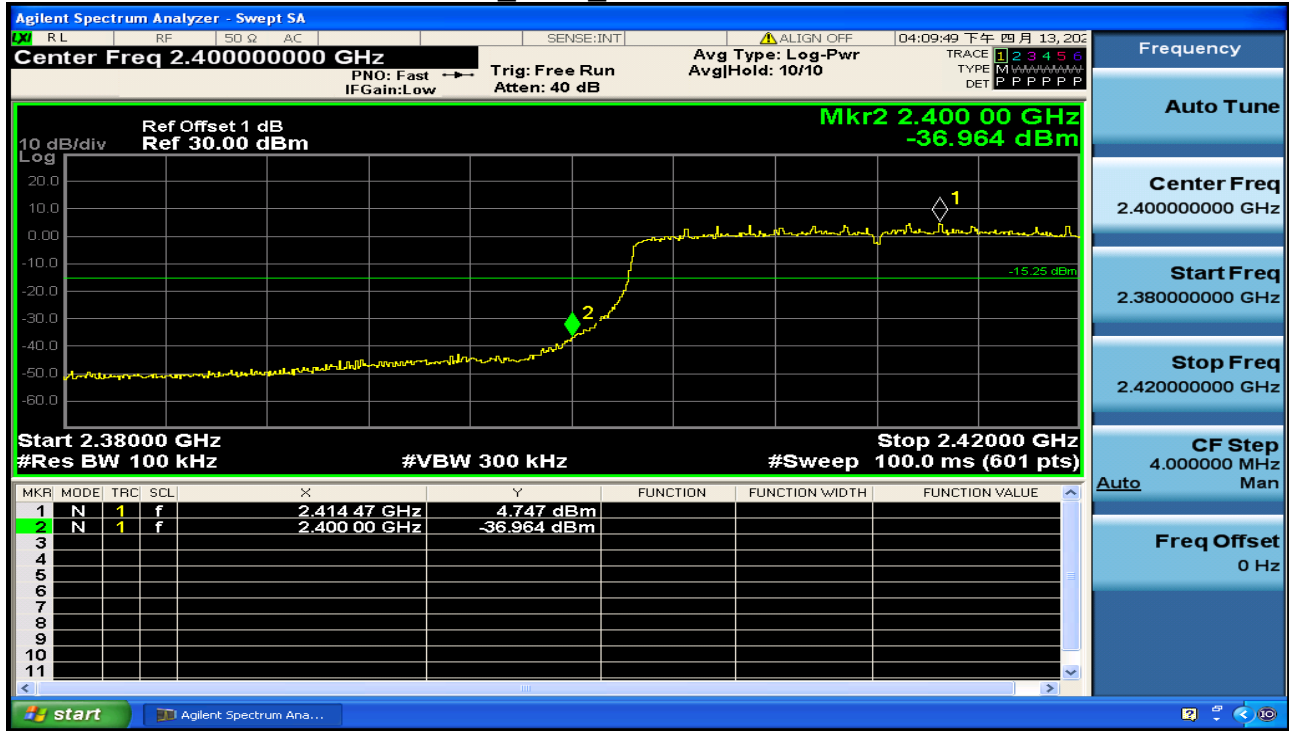


4.7.1.1.12 802.11AX20MIMO\_106T\_Highest Channel

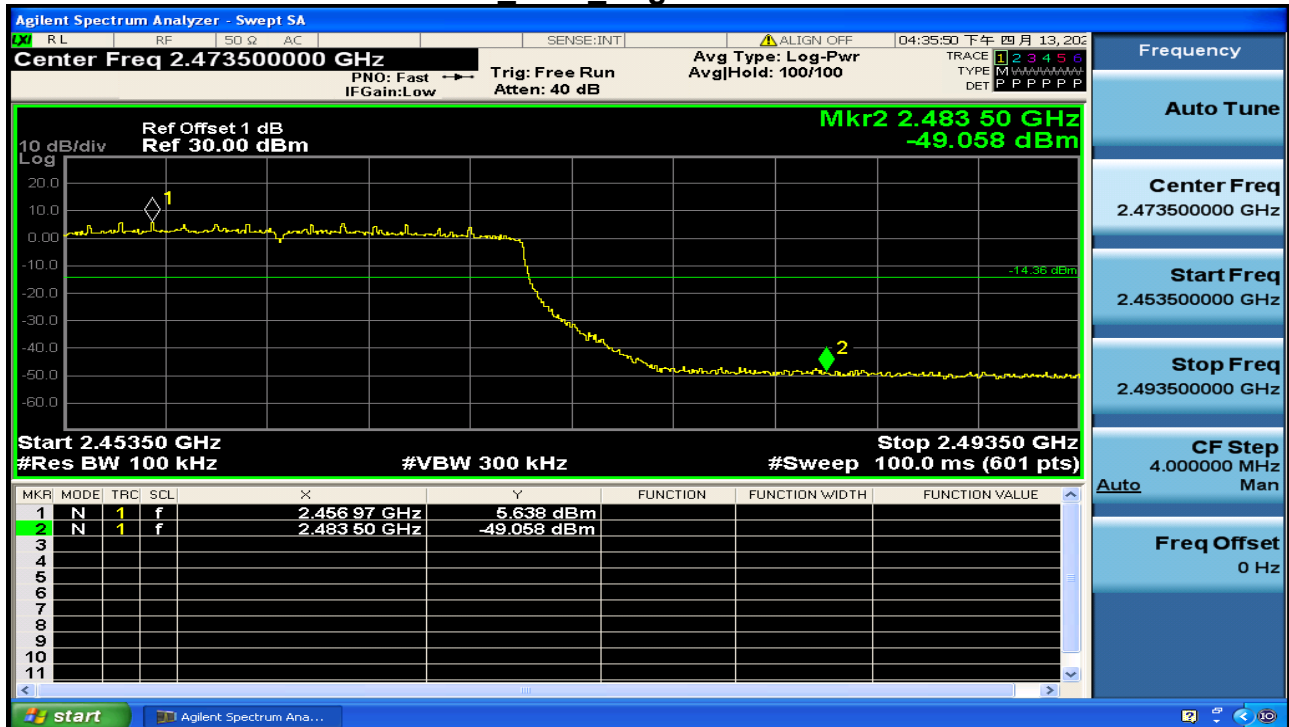




4.7.1.1.13 802.11AX20MIMO\_242T\_Lowest Channel



4.7.1.1.14 802.11AX20MIMO\_242T\_Highest Channel



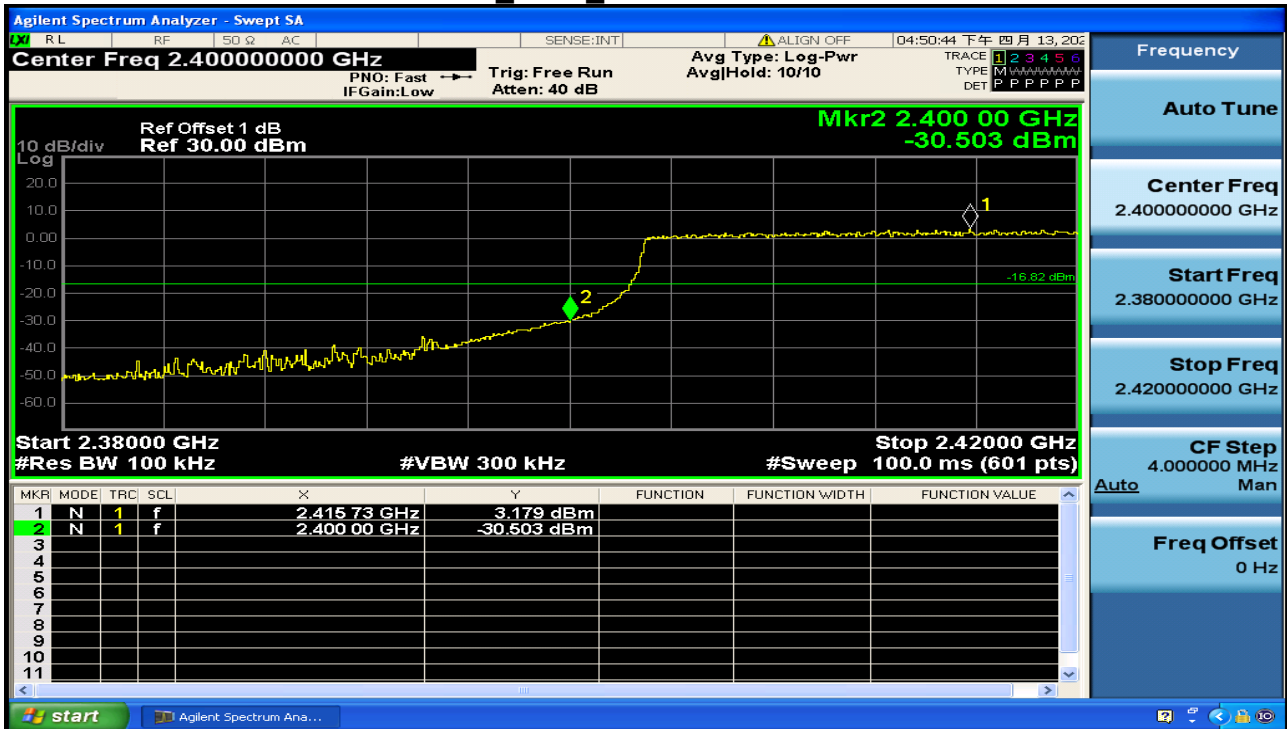
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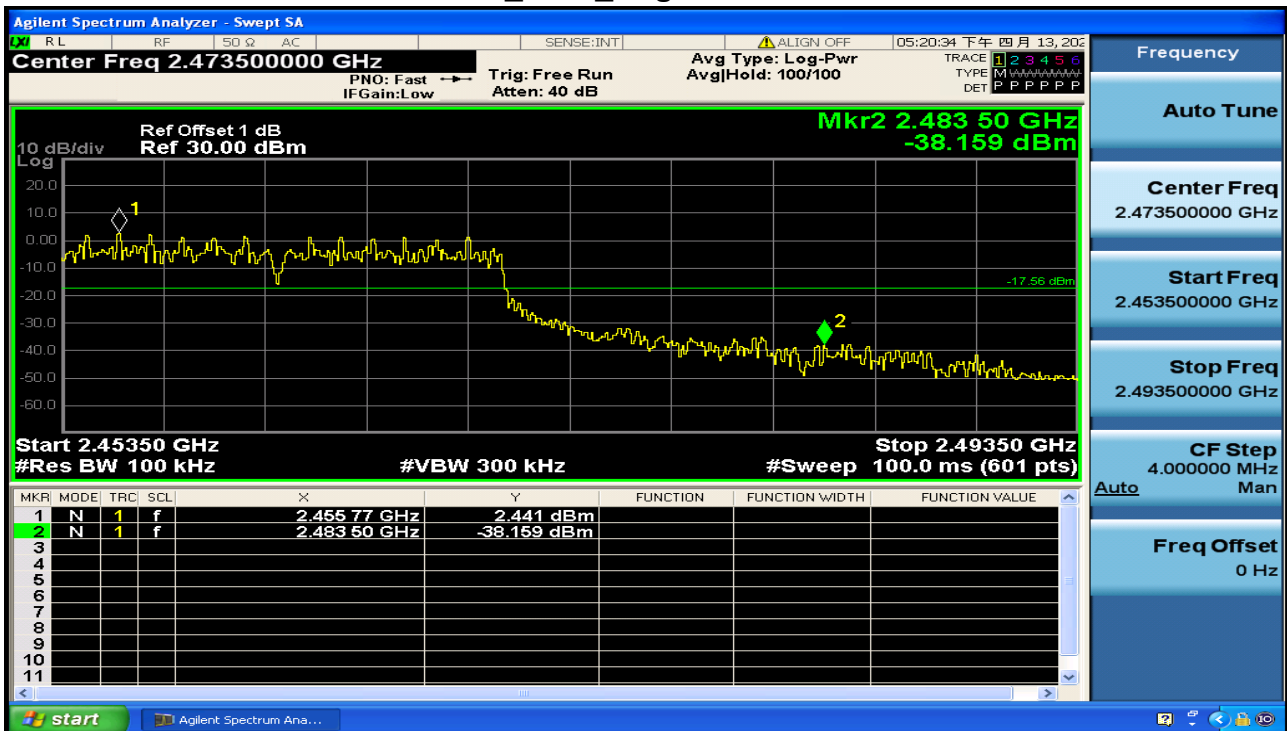




4.7.1.1.15 802.11AX40MIMO\_242T\_Lowest Channel



4.7.1.1.16 802.11 AX40MIMO\_242T\_Highest Channel



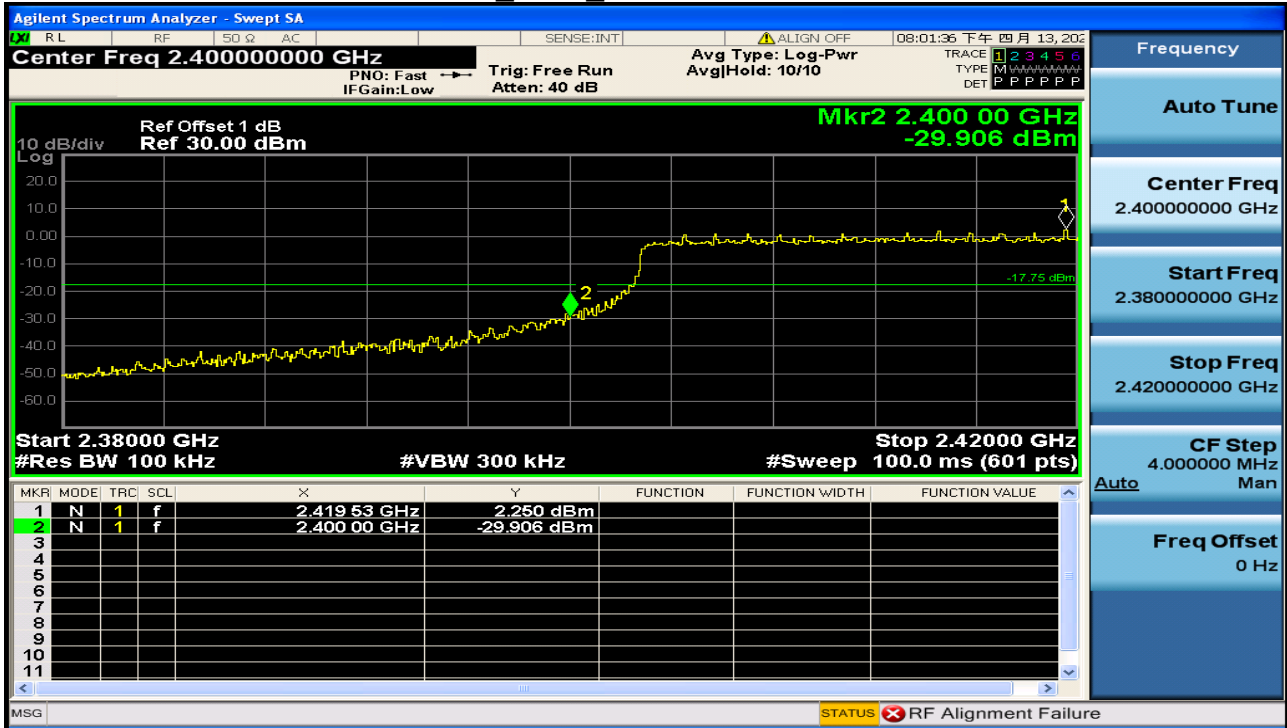
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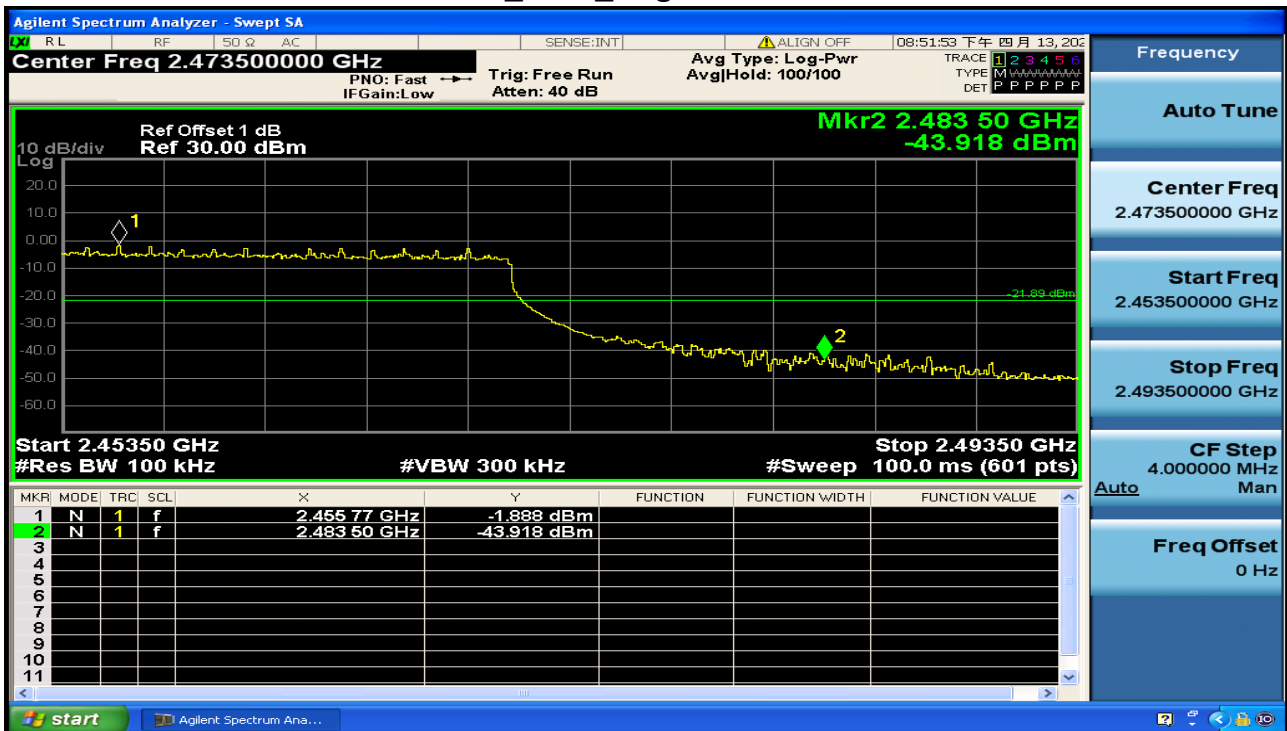
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4.7.1.1.17 802.11AX40MIMO\_484T\_Lowest Channel



4.7.1.1.18 802.11 AX40MIMO\_484T\_Highest Channel

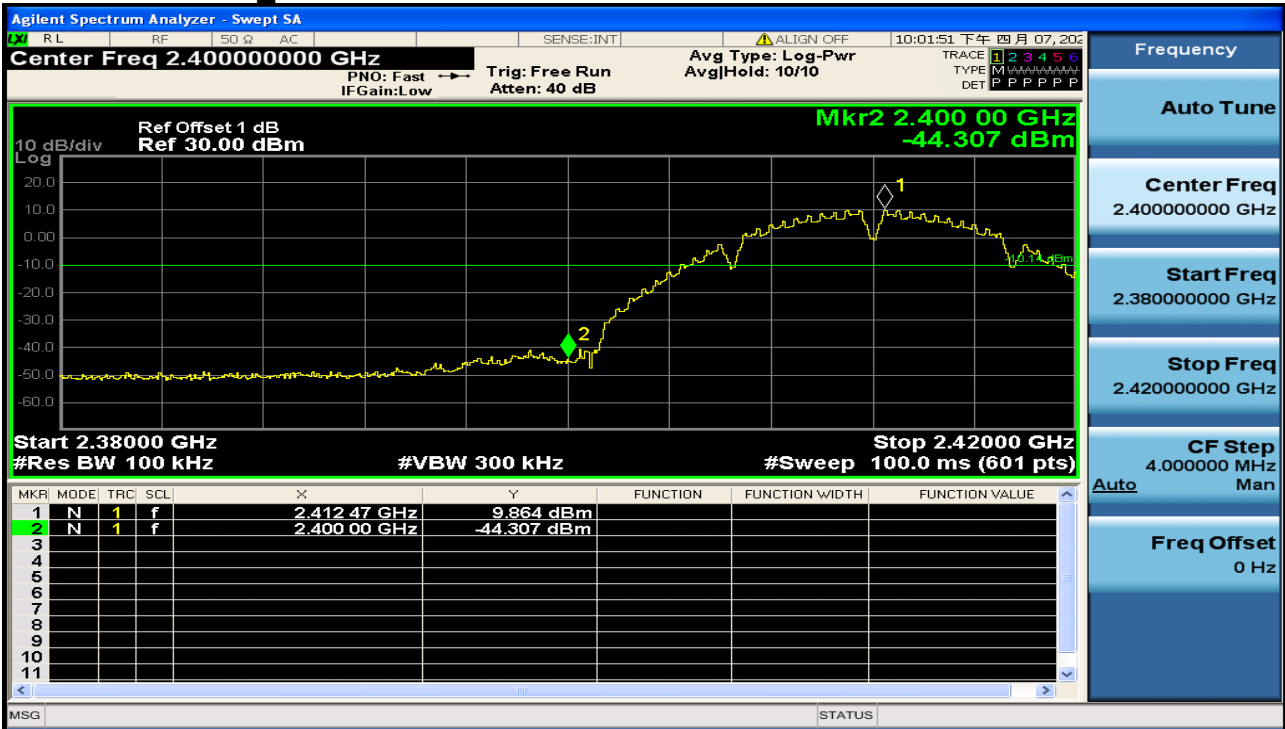


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4.7.1.2 CDD & MIMO\_ANT2  
4.7.1.2.1 802.11B\_Lowest Channel



4.7.1.2.2 802.11B\_Highest Channel

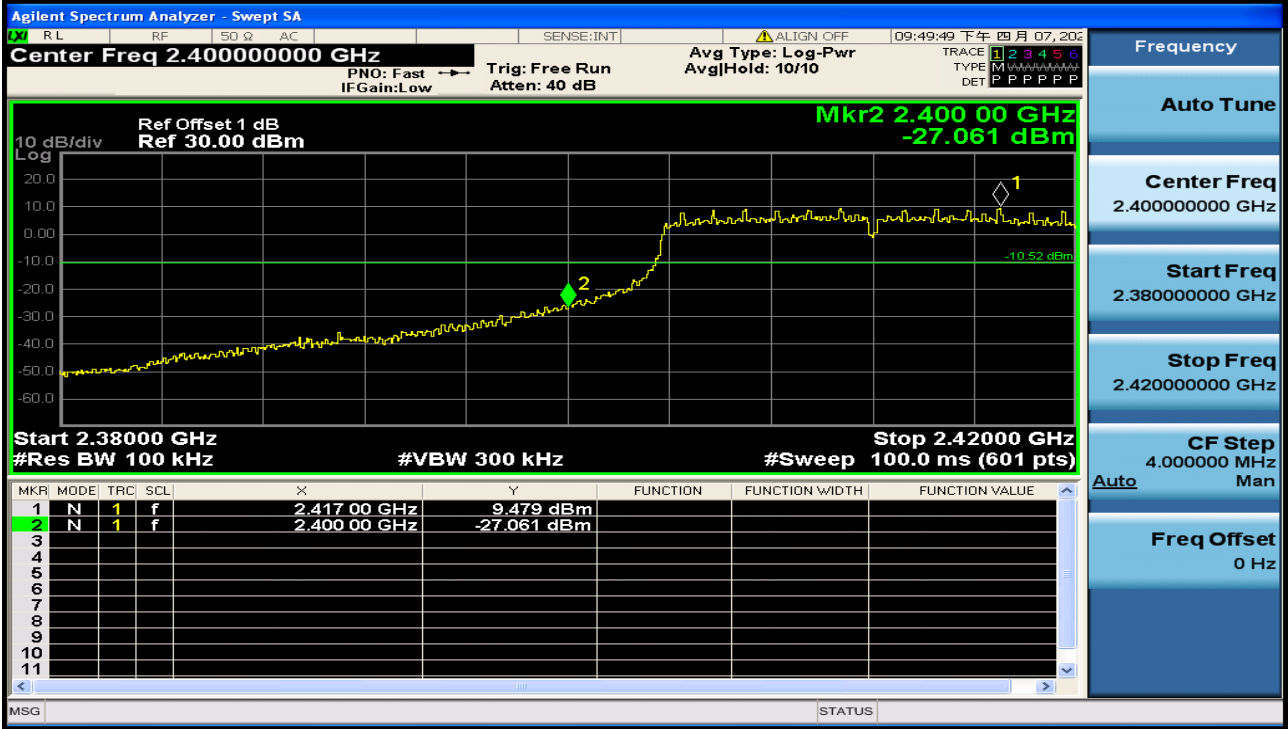


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4.7.1.2.3 802.11G\_CDD\_Lowest Channel



4.7.1.2.4 802.11G\_CDD\_Highest Channel

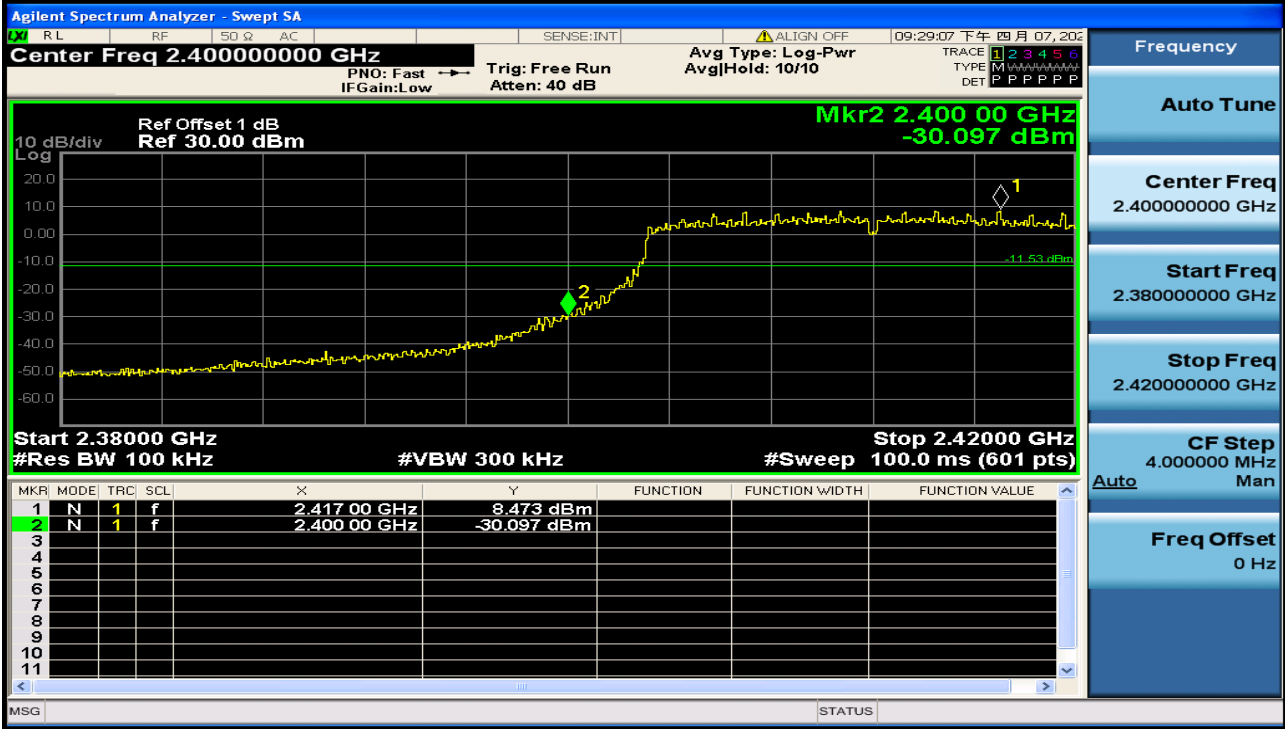


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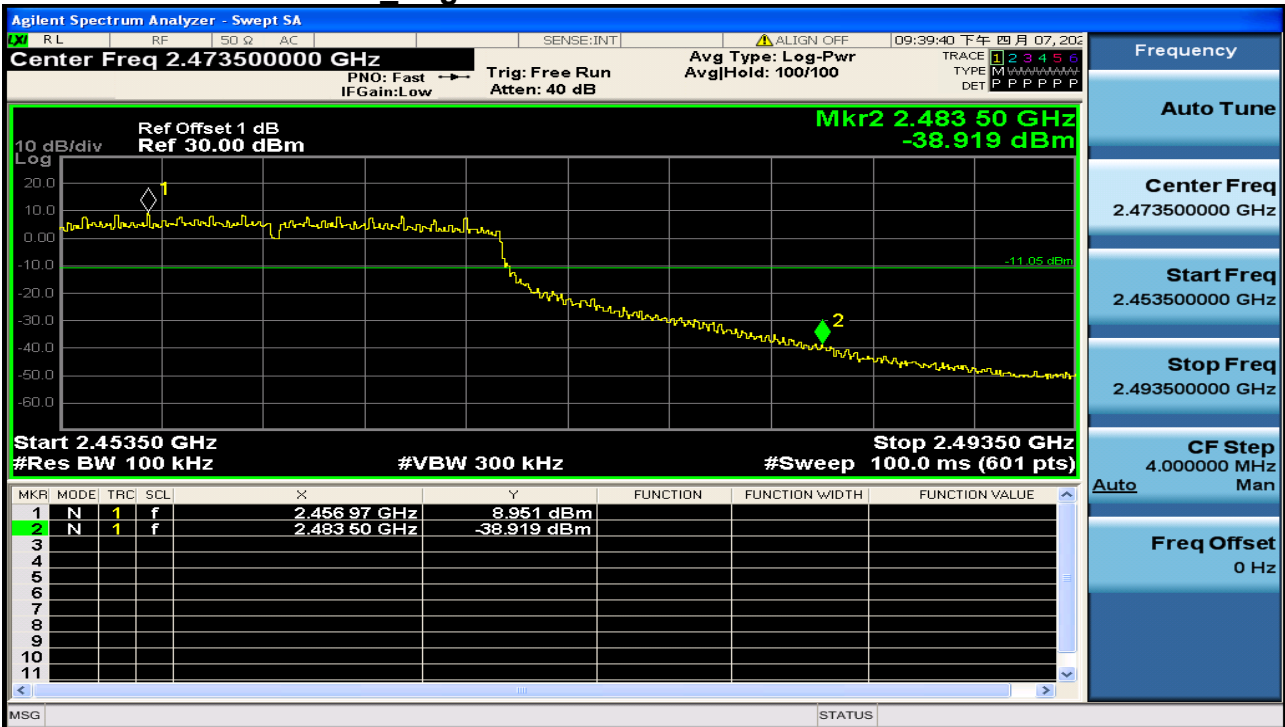
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4.7.1.2.5 802.11N20MIMO\_Lowest Channel



4.7.1.2.6 802.11N20MIMO\_Highest Channel

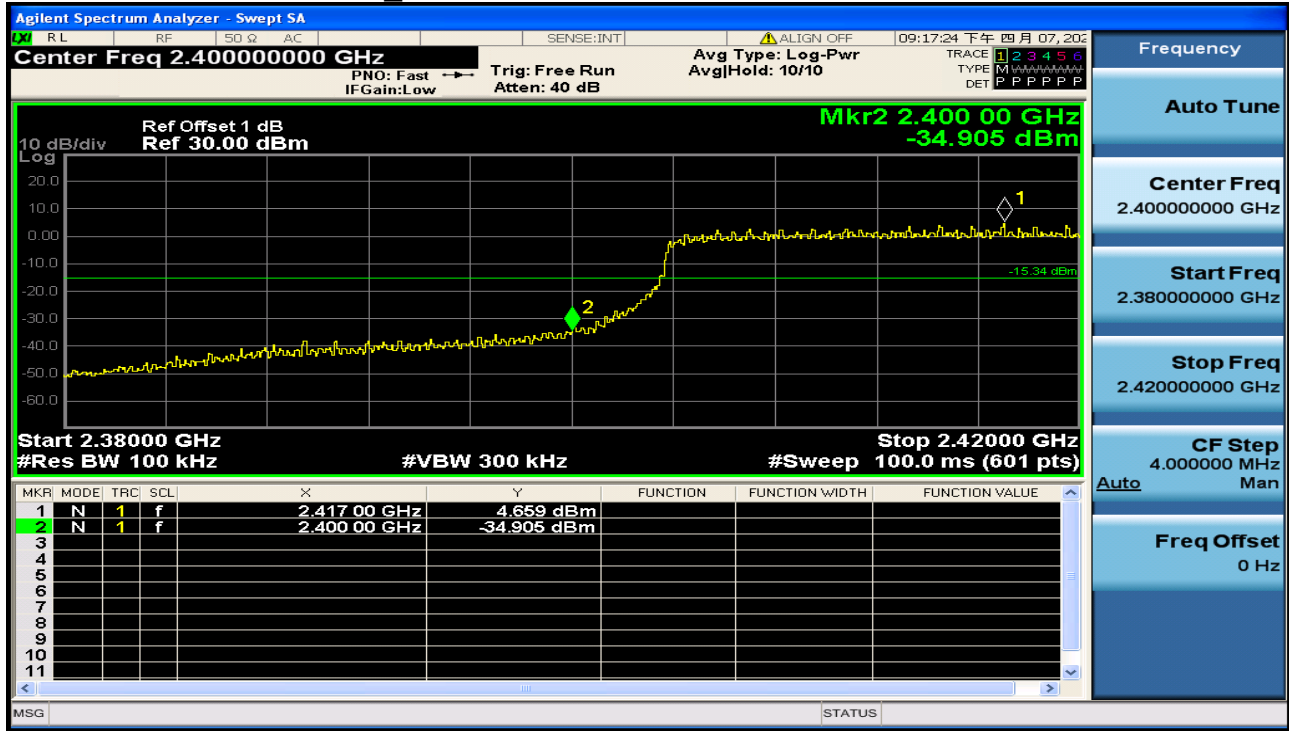


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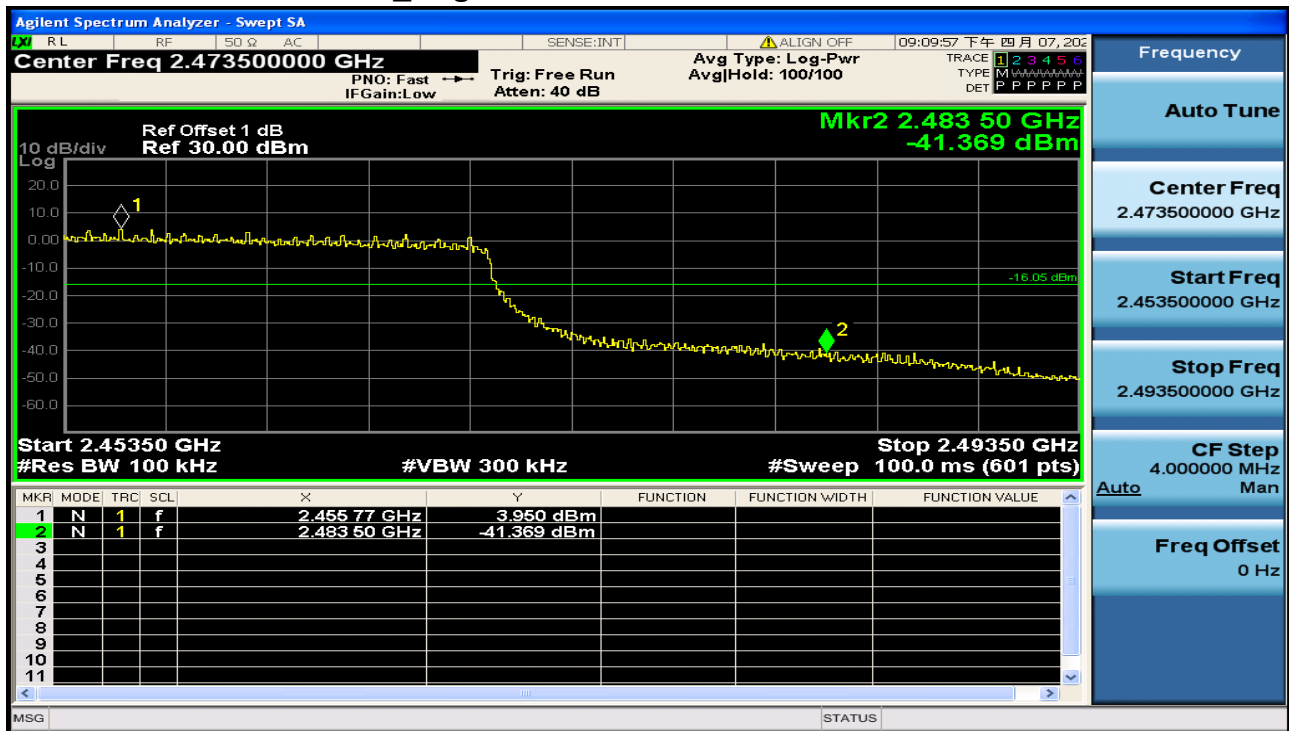
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4.7.1.2.7 802.11N40MIMO\_Lowest Channel



4.7.1.2.8 802.11 N40MIMO\_Highest Channel

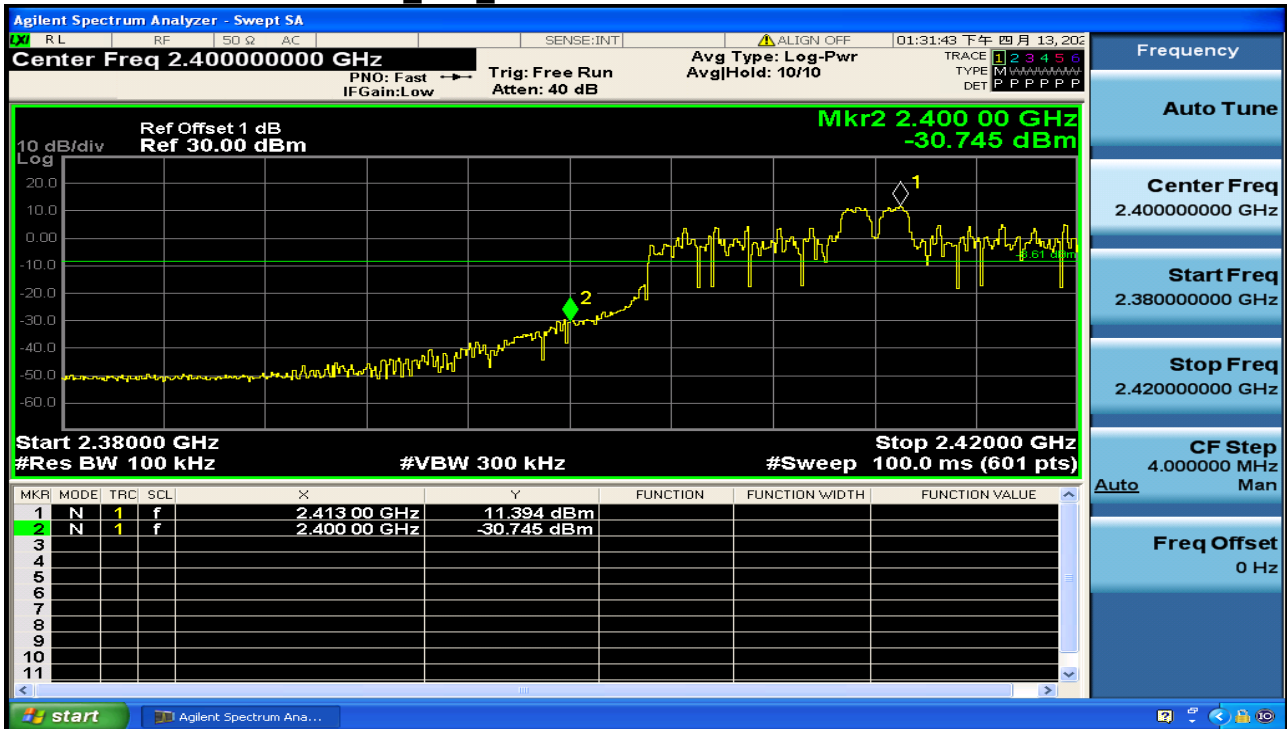


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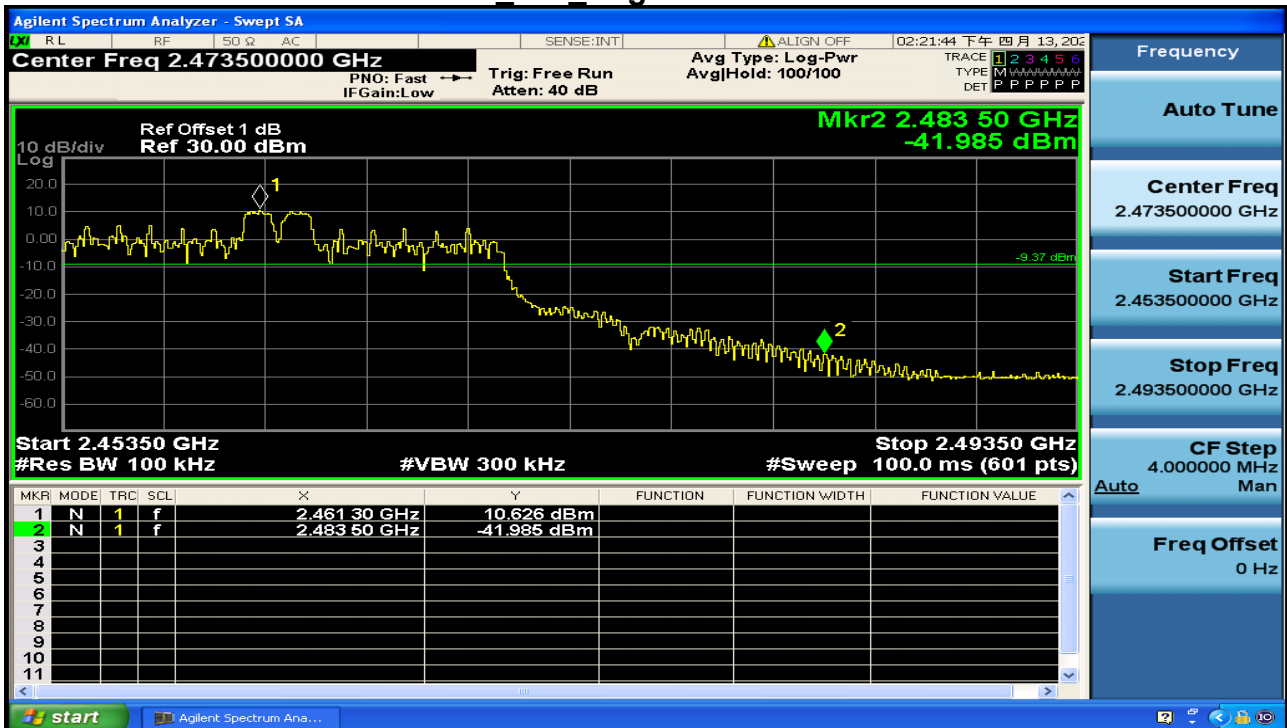
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### 4.7.1.2.9 802.11AX20MIMO\_26T\_Lowest Channel



### 4.7.1.2.10 802.11AX20MIMO\_26T\_Highest Channel

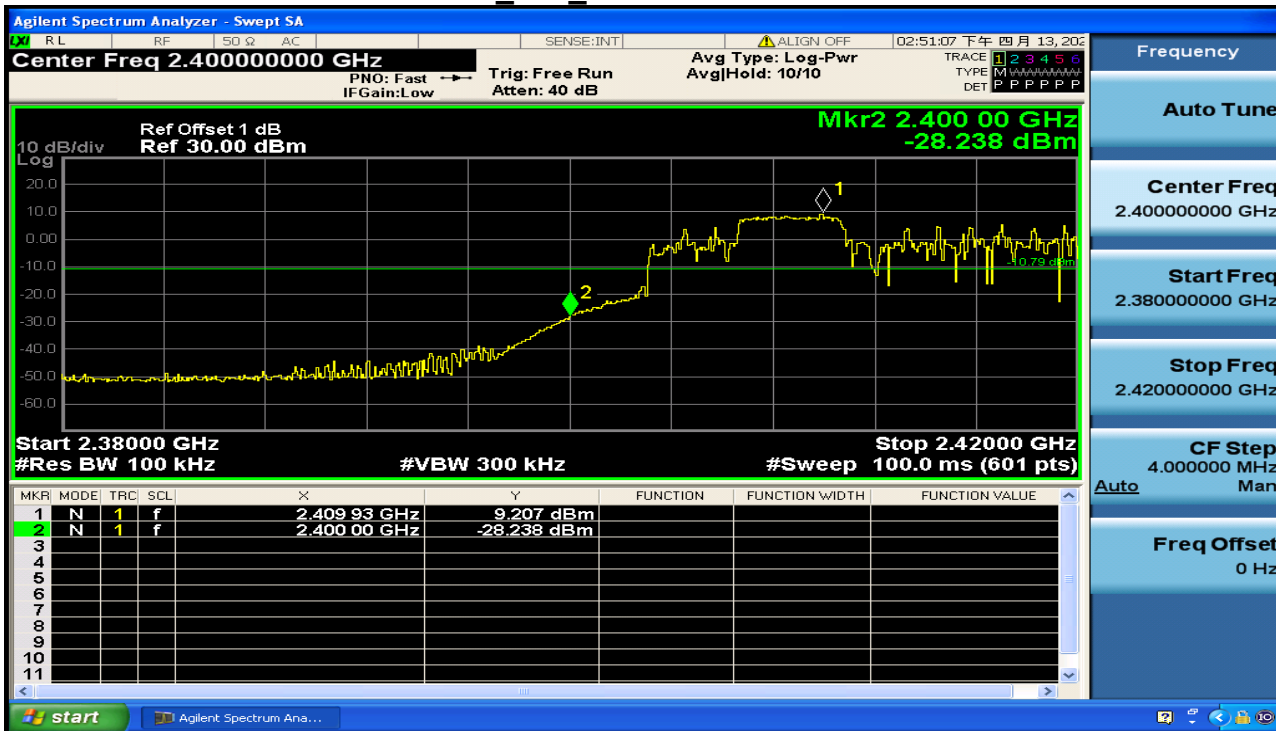


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4.7.1.2.11 802.11AX20MIMO\_52T\_Lowest Channel



4.7.1.2.12 802.11AX20MIMO\_52T\_Highest Channel



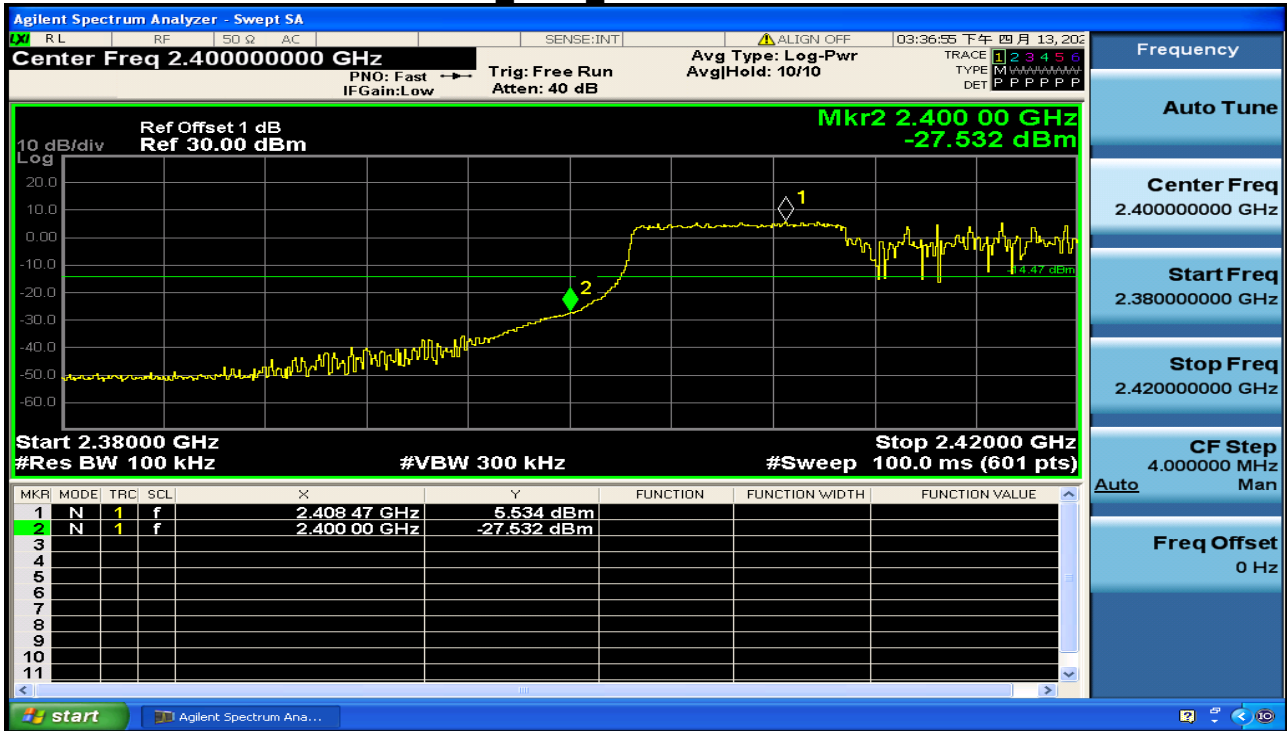
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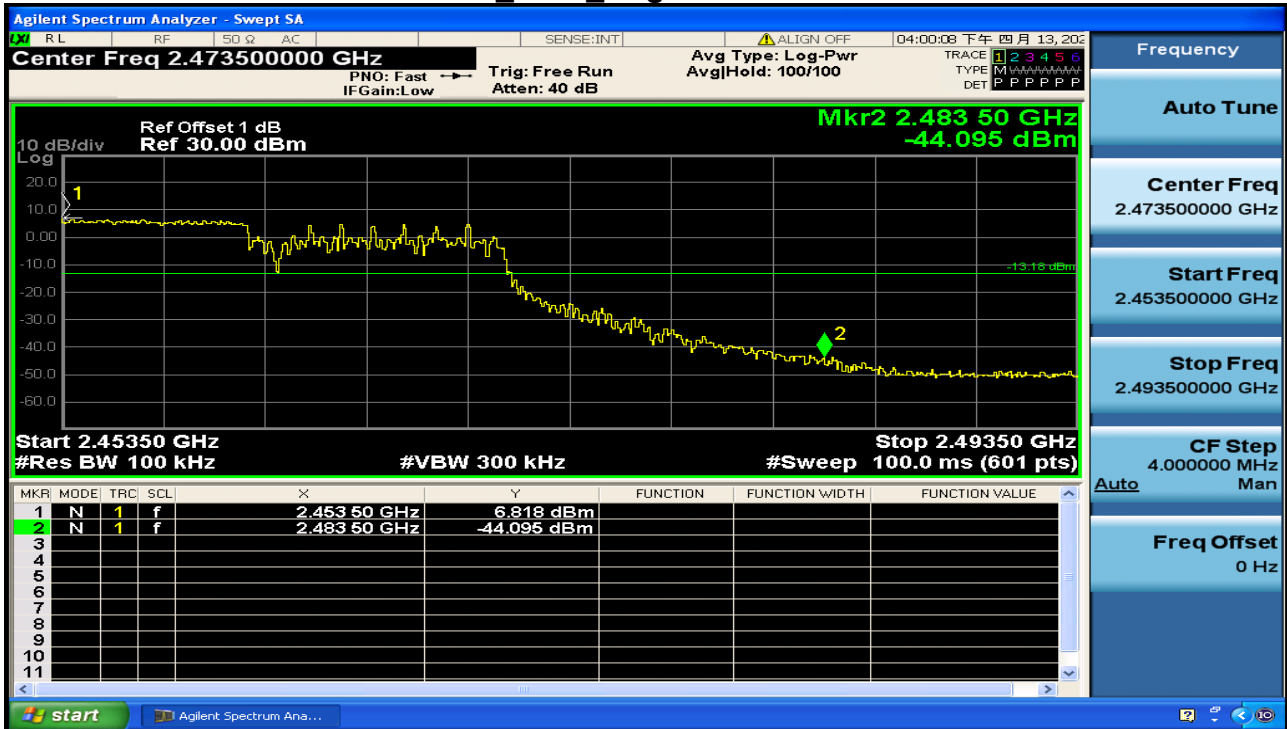




4.7.1.2.13 802.11AX20MIMO\_106T\_Lowest Channel



4.7.1.2.14 802.11AX20MIMO\_106T\_Highest Channel

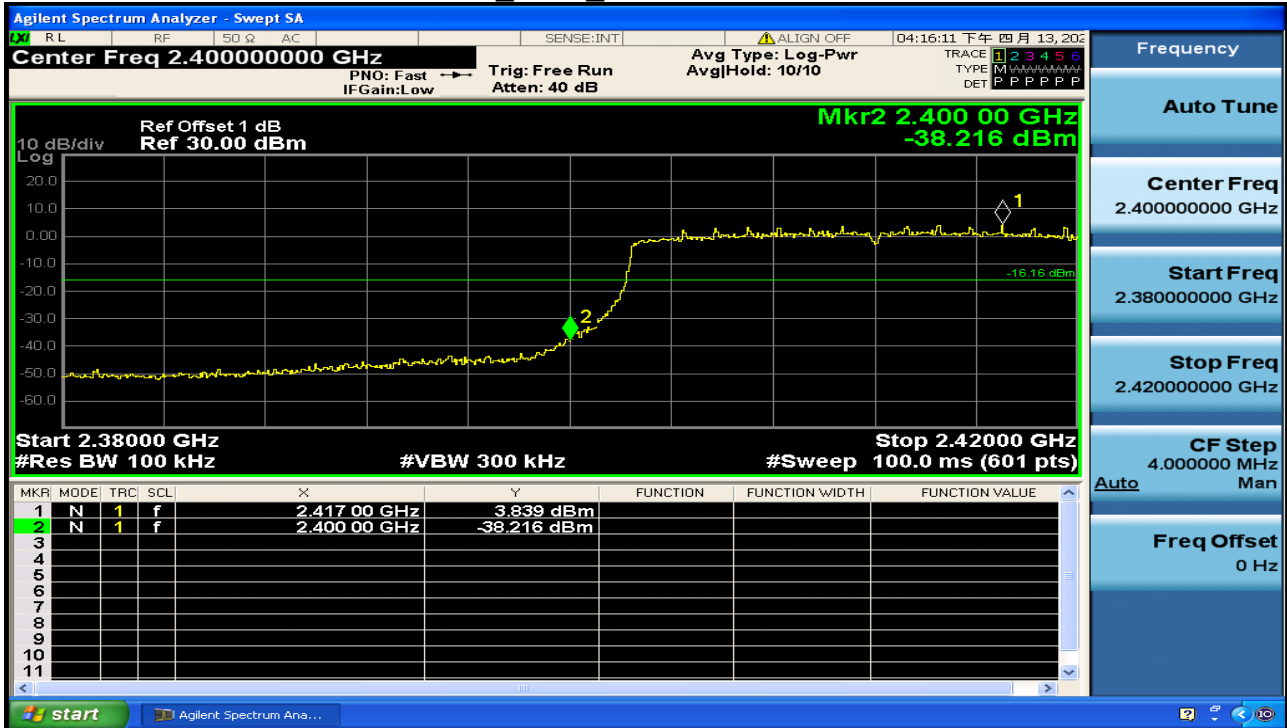


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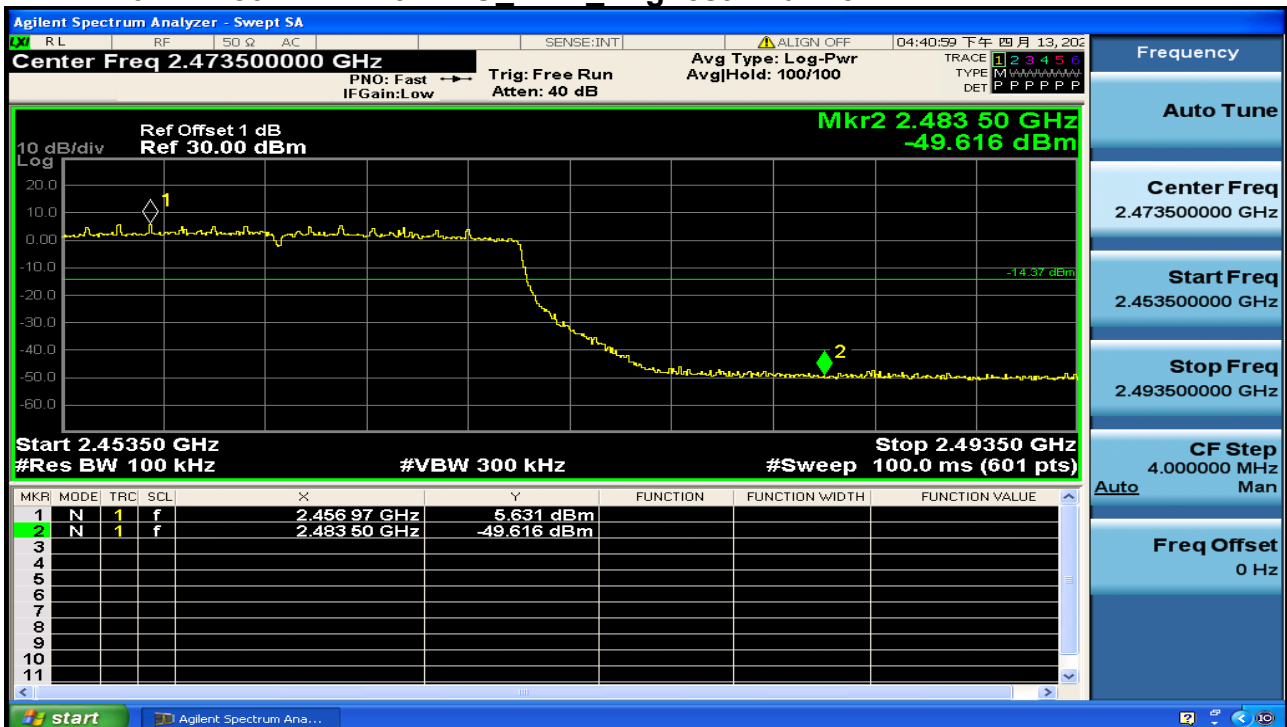
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4.7.1.2.15 802.11AX20MIMO\_242T\_Lowest Channel



4.7.1.2.16 802.11AX20MIMO\_242T\_Highest Channel

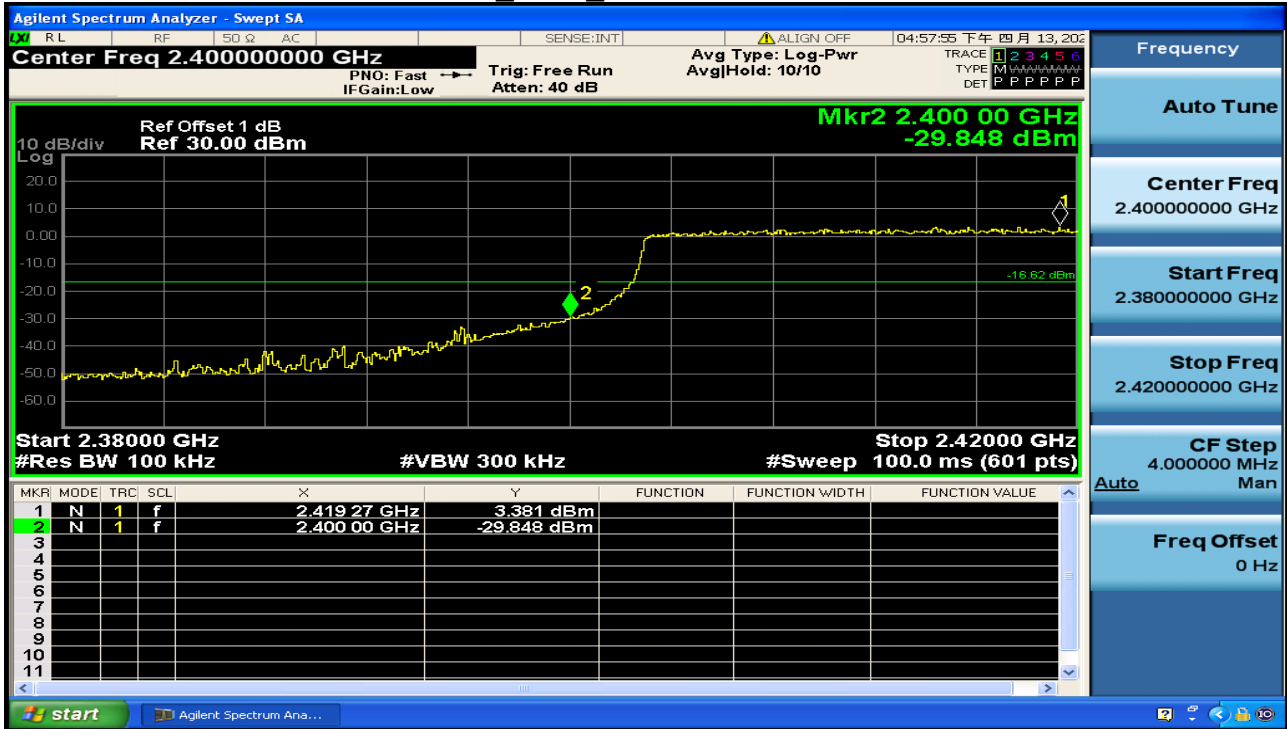


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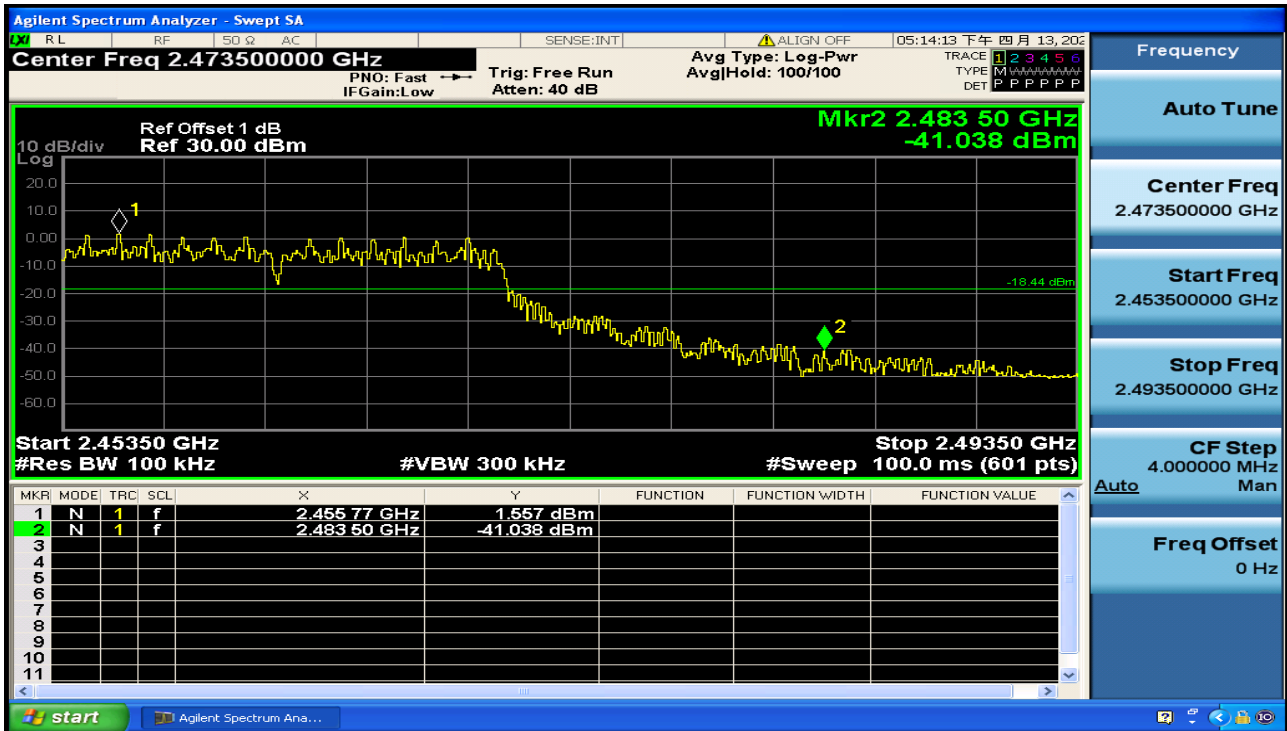
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4.7.1.2.17 802.11AX40MIMO\_242T\_Lowest Channel



4.7.1.2.18 802.11 AX40MIMO\_242T\_Highest Channel

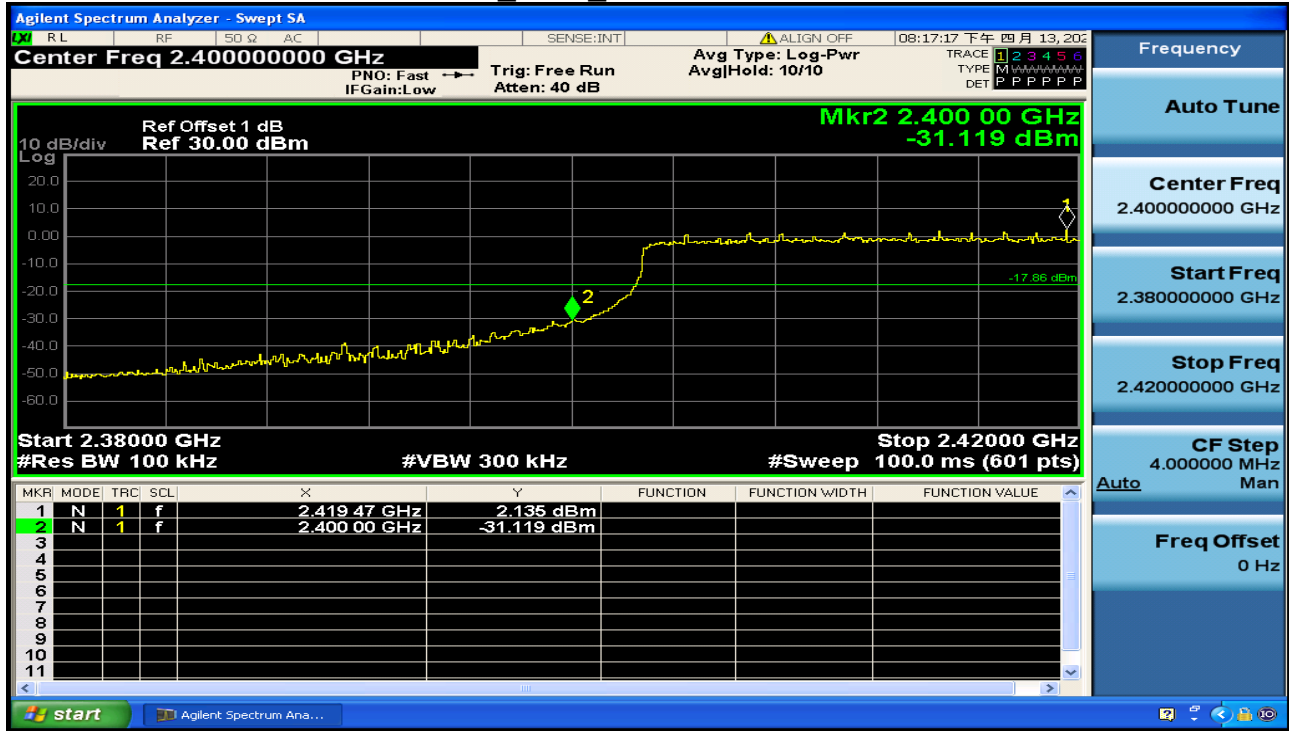


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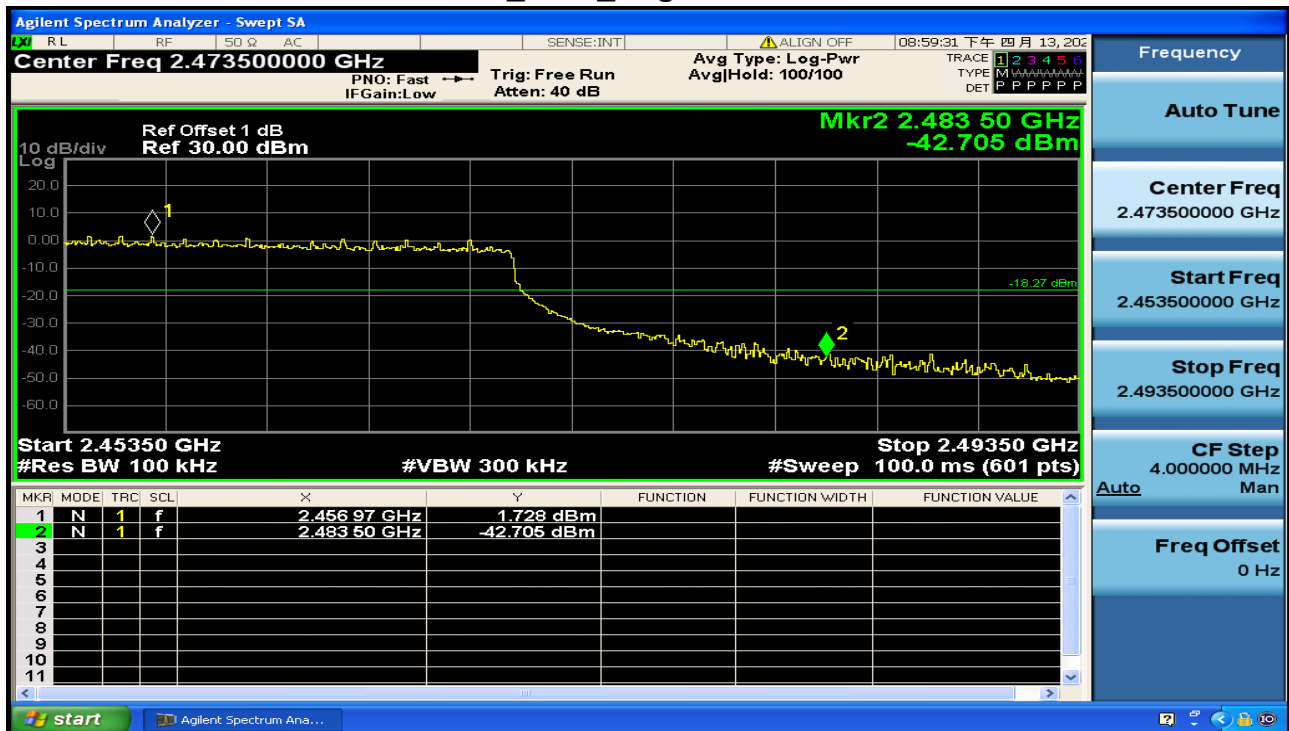
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4.7.1.2.19 802.11AX40MIMO\_484T\_Lowest Channel



4.7.1.2.20 802.11 AX40MIMO\_484T\_Highest Channel



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### 4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; MCS0 of rate is the worst case of 802.11N(HT20); MCS0 of rate is the worst case of 802.11N(HT40). MCS0 of rate is the worst case of 802.11AX(HT20). MCS0 of rate is the worst case of 802.11AX(HT40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

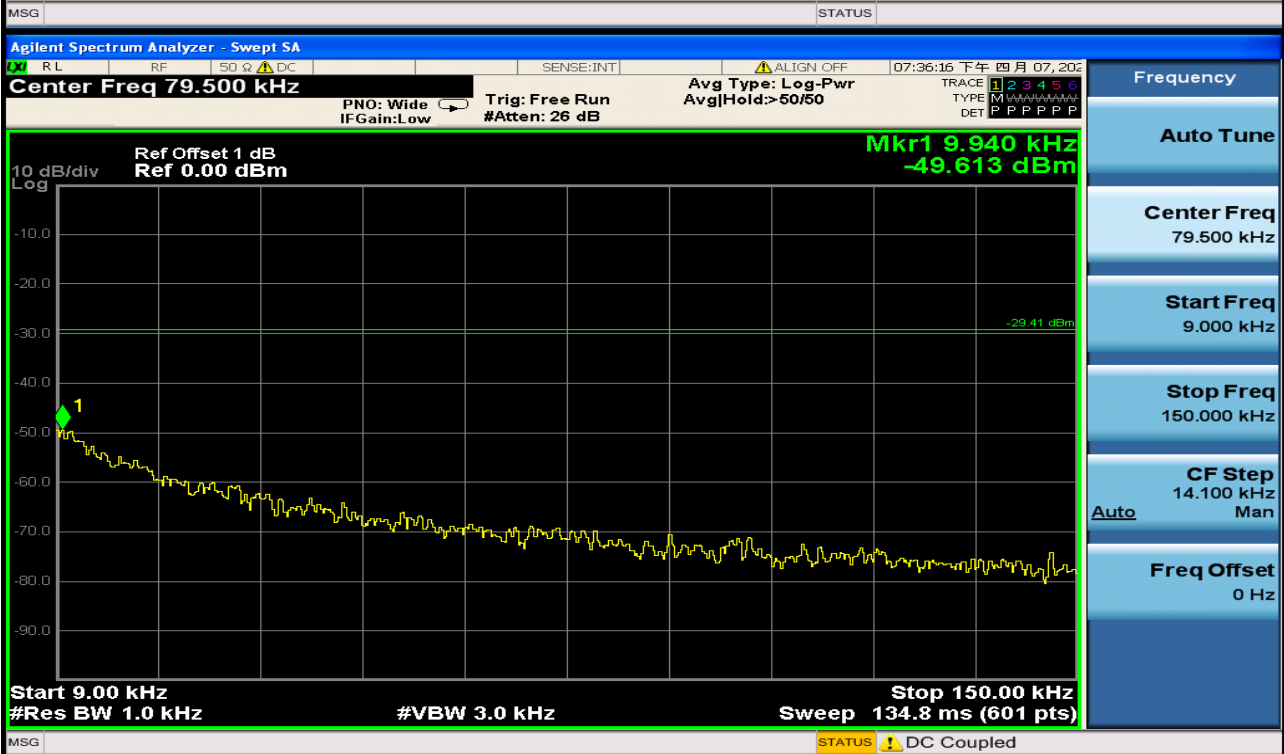
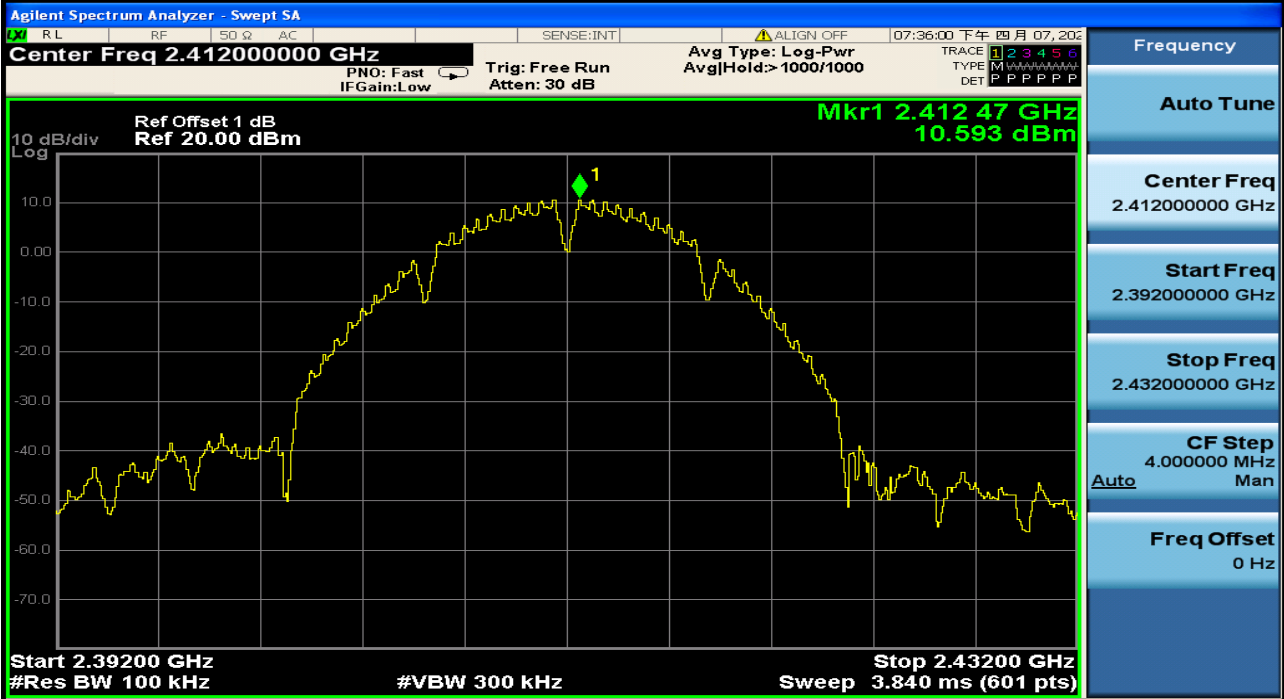


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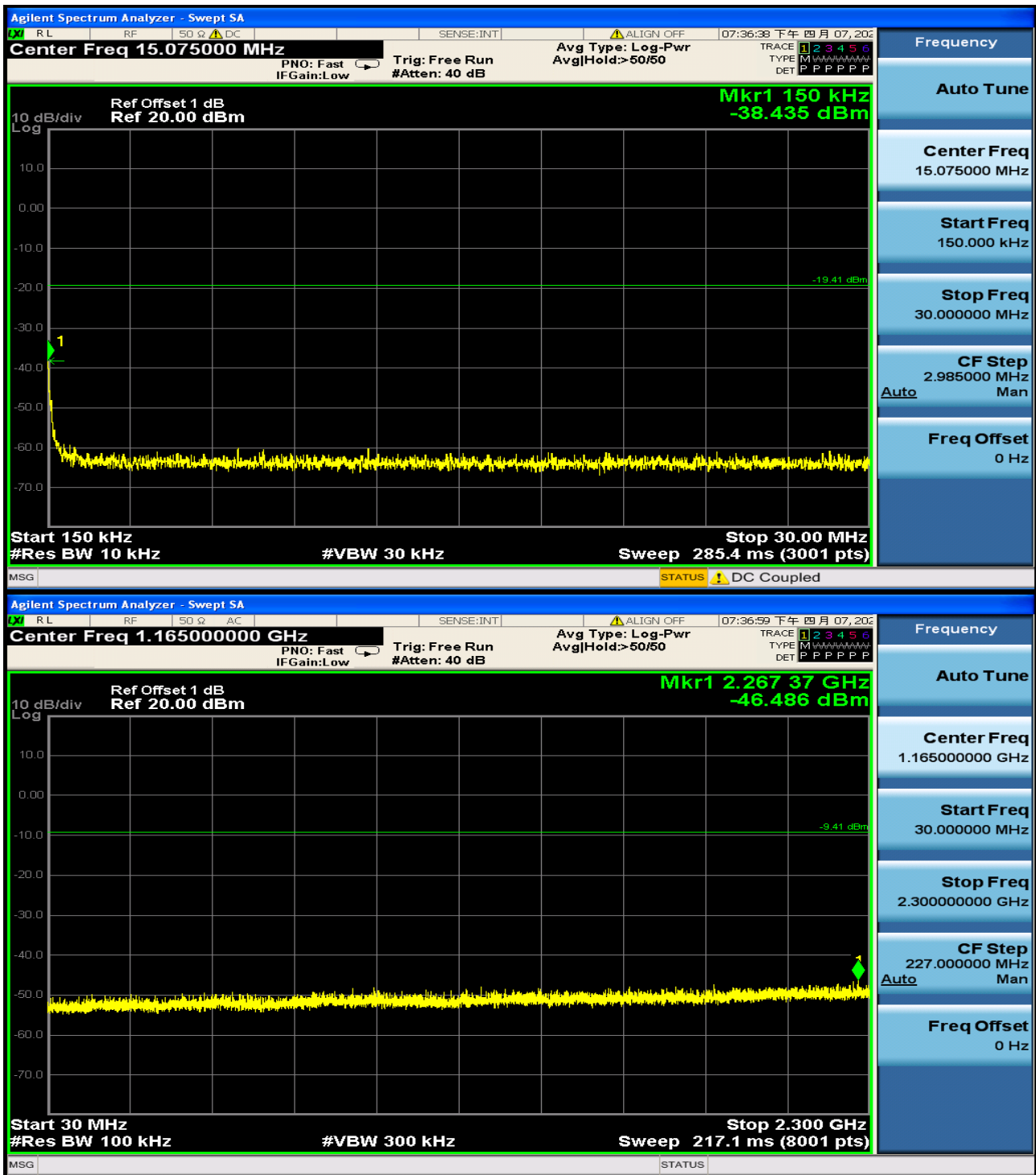
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4.8.1 Test plots  
4.8.1.1 CDD & MIMO\_ANT1  
4.8.1.1.1 802.11B Lowest Channel



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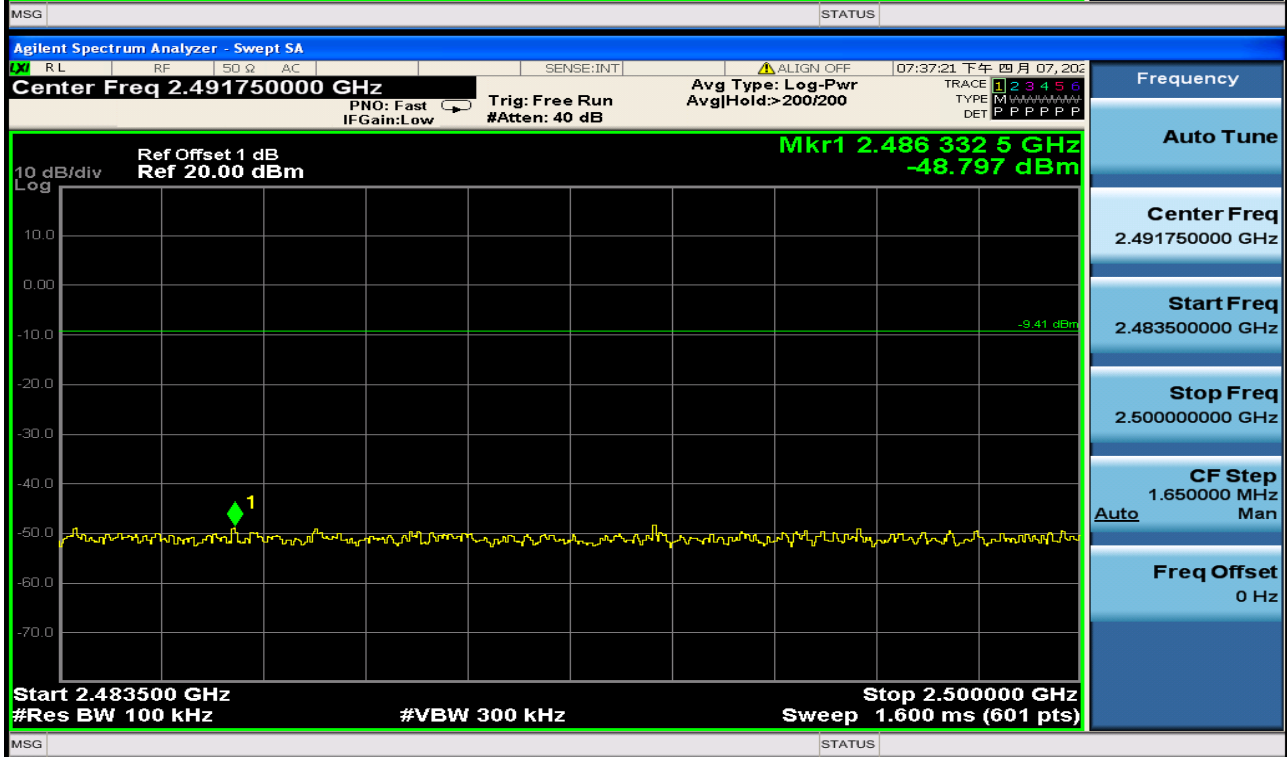
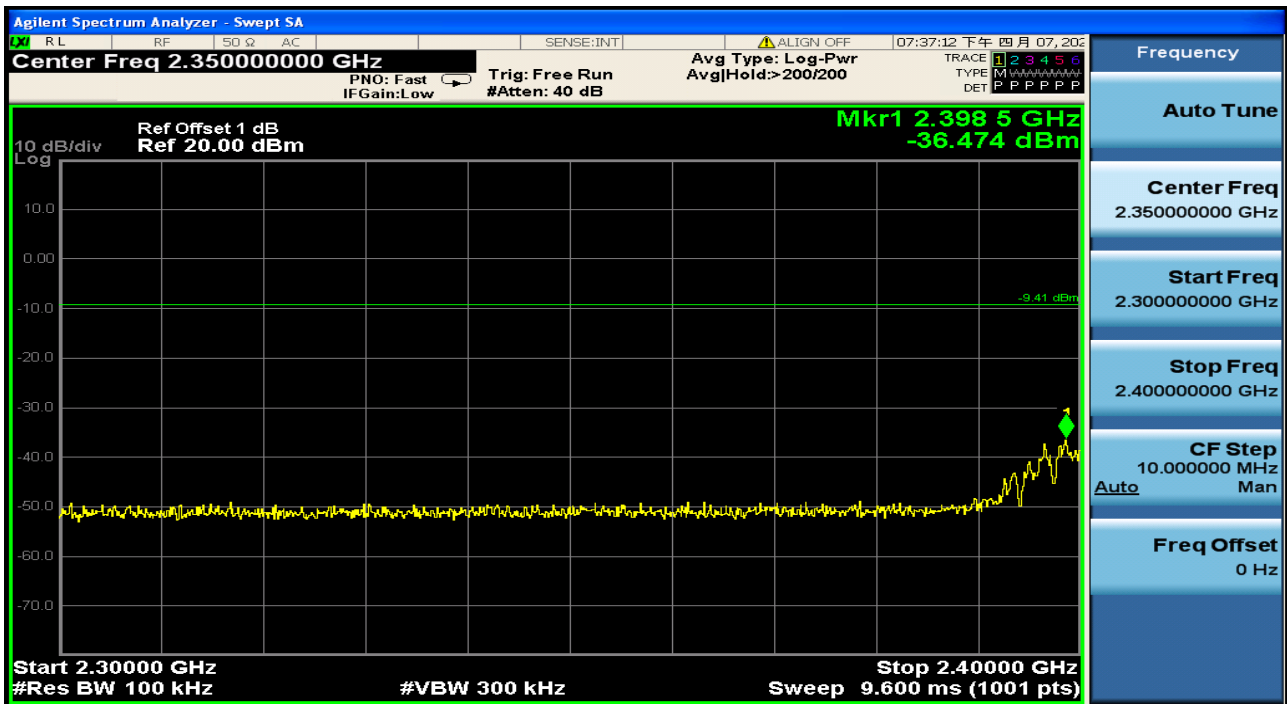


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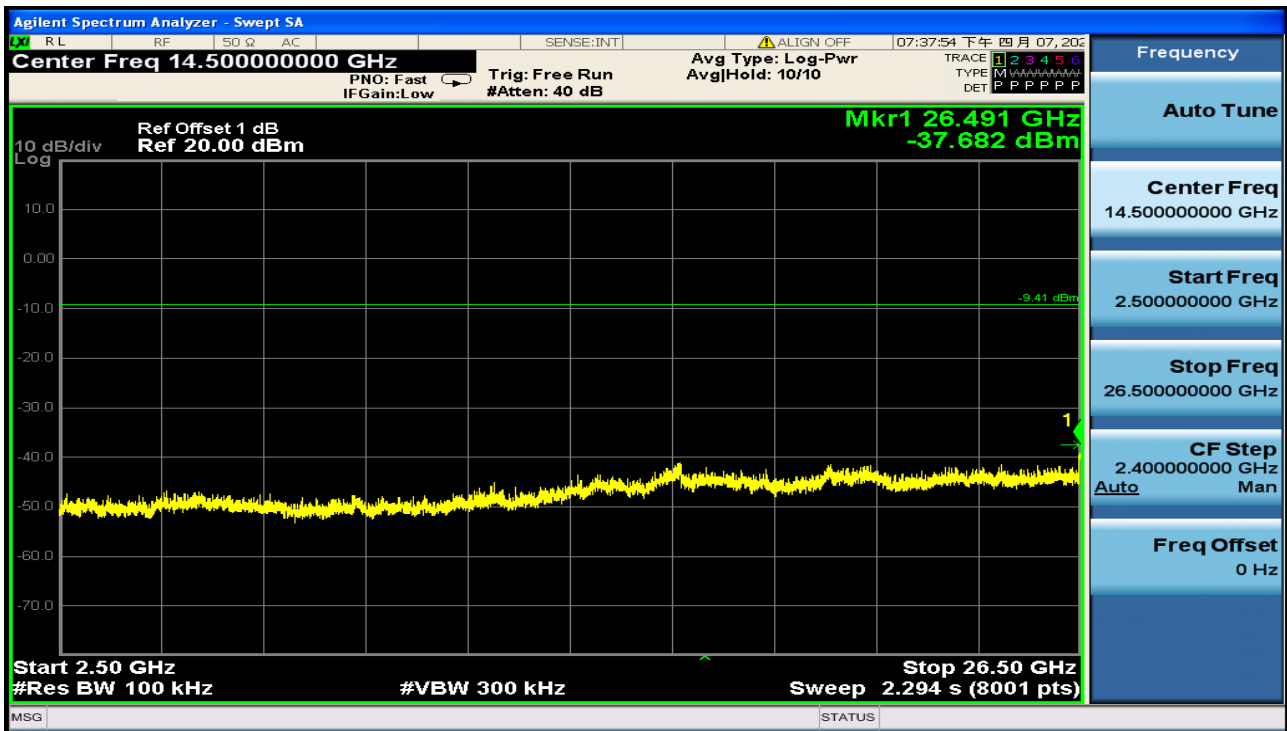
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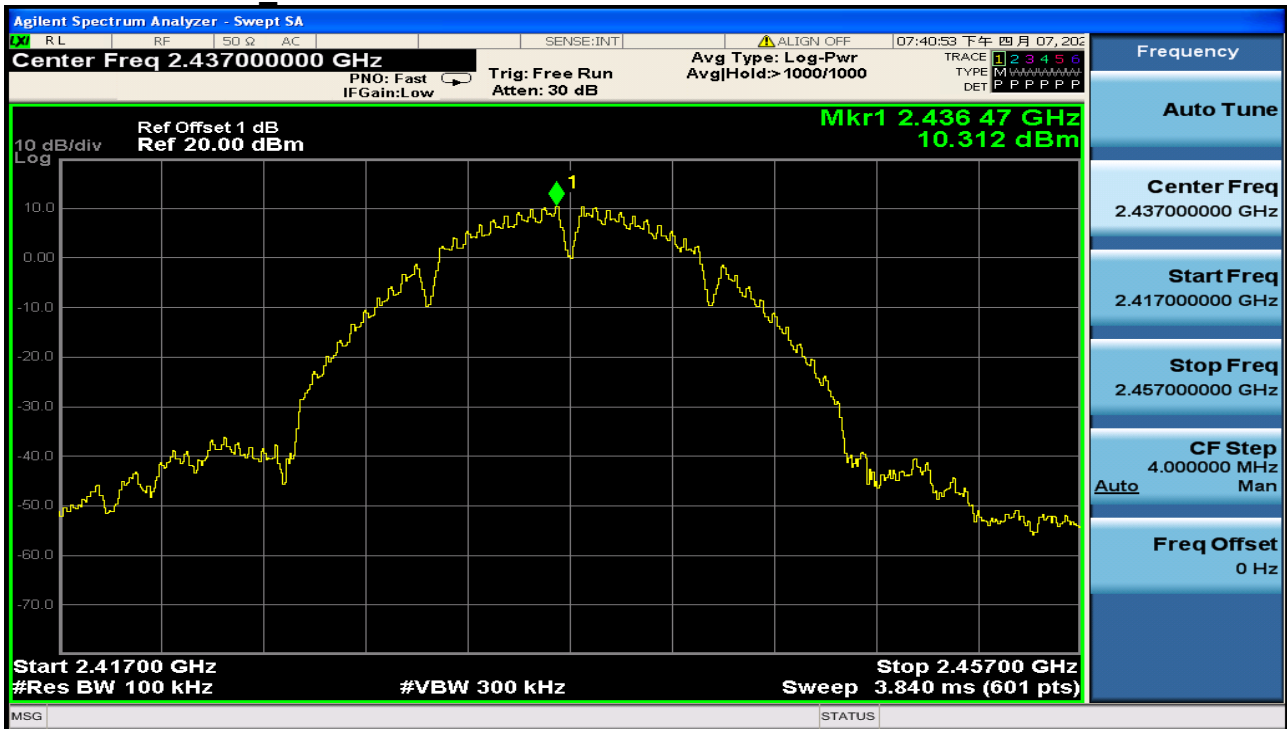
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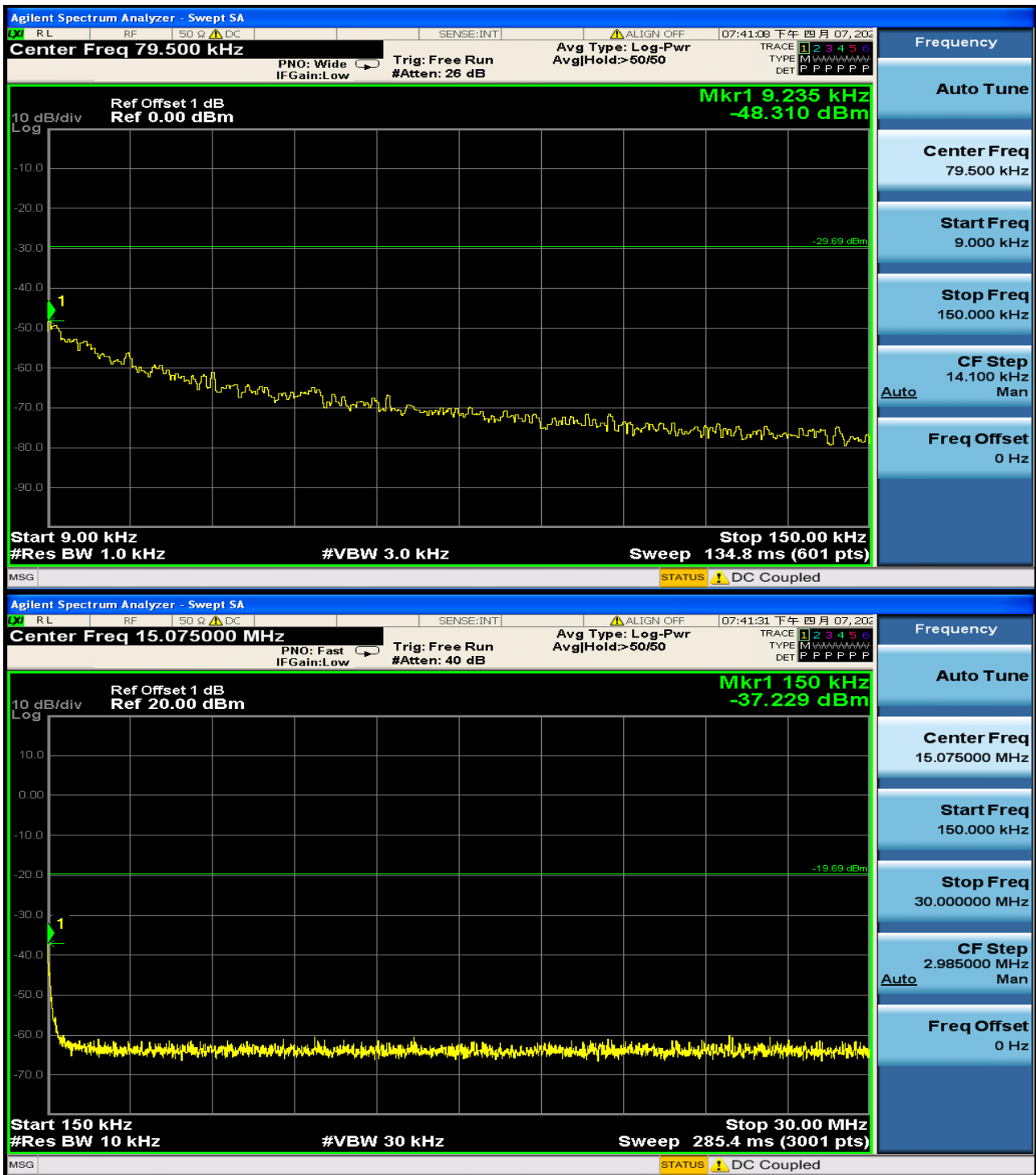
#### 4.8.1.1.2 802.11B Middle Channel



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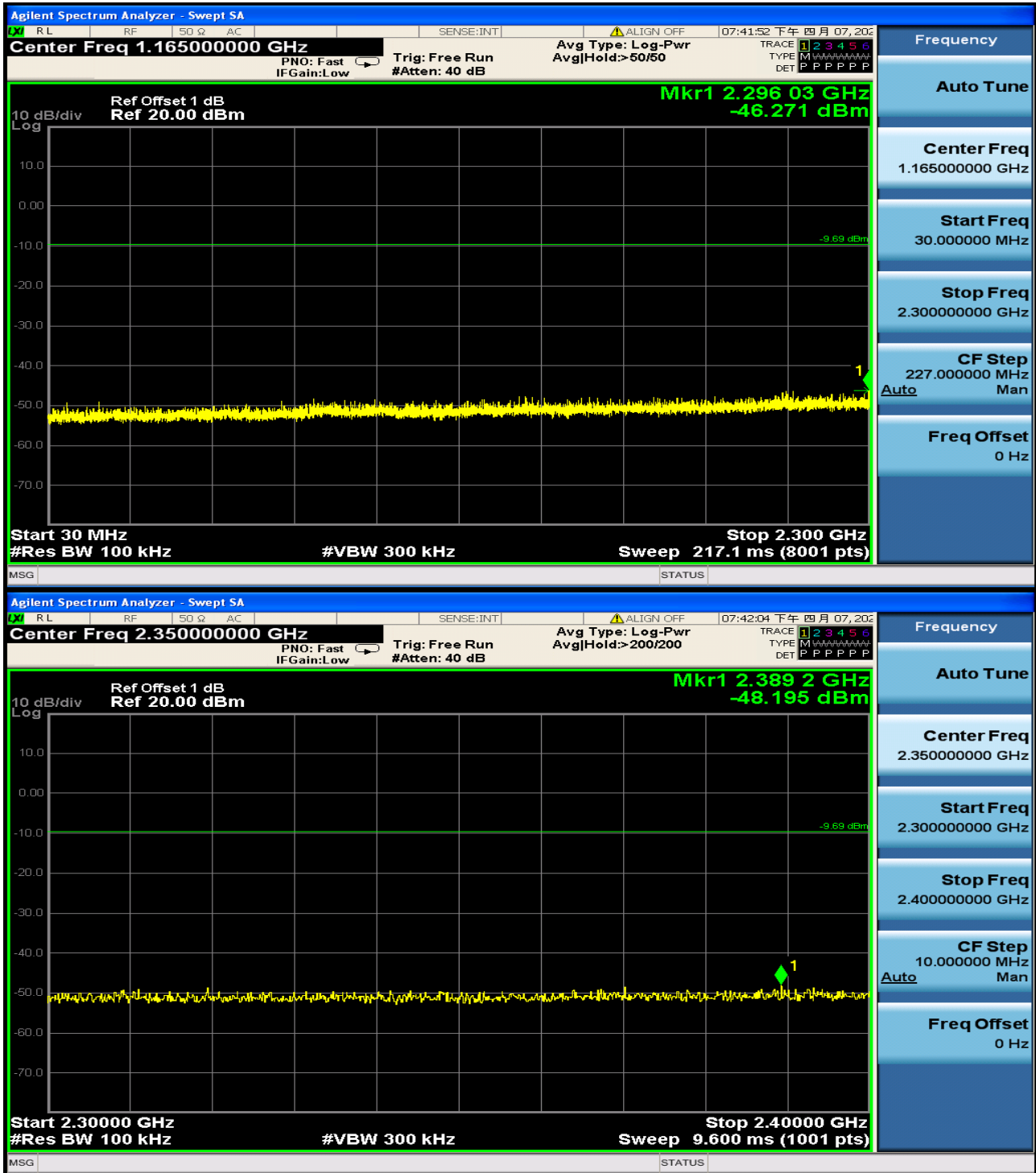
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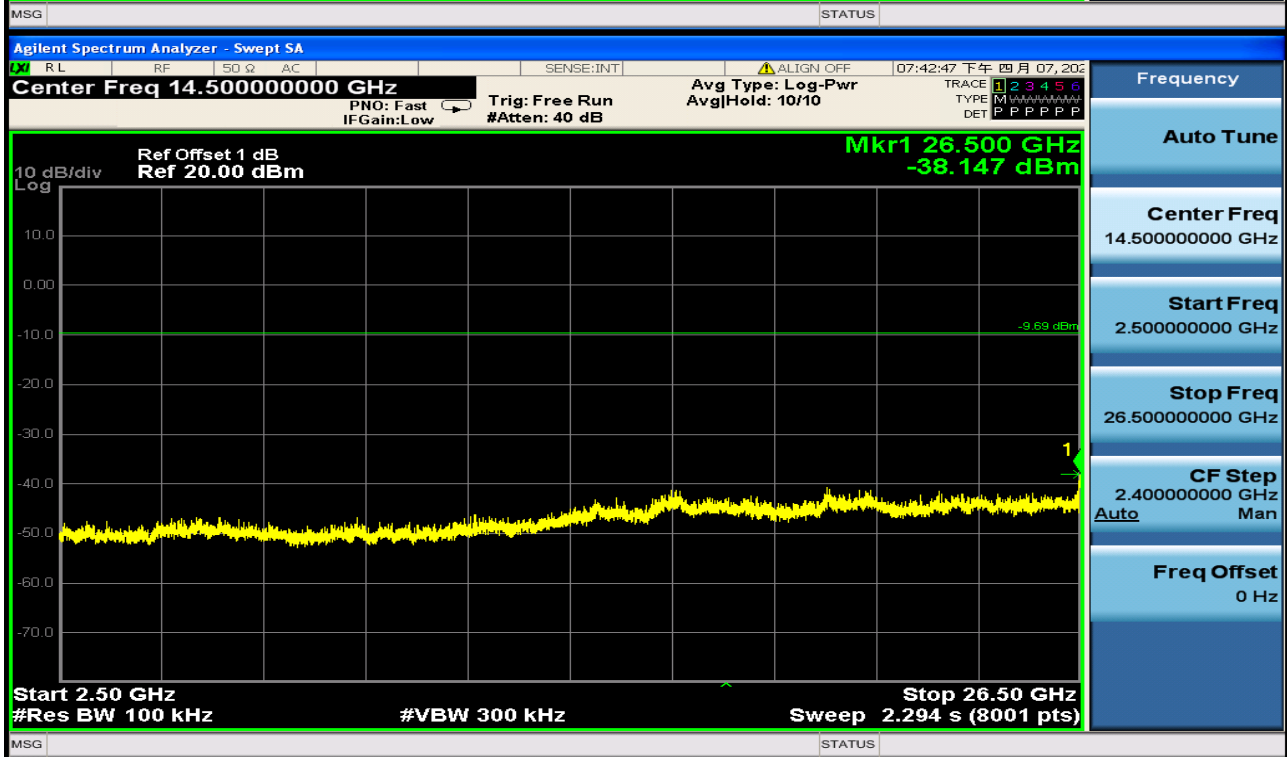
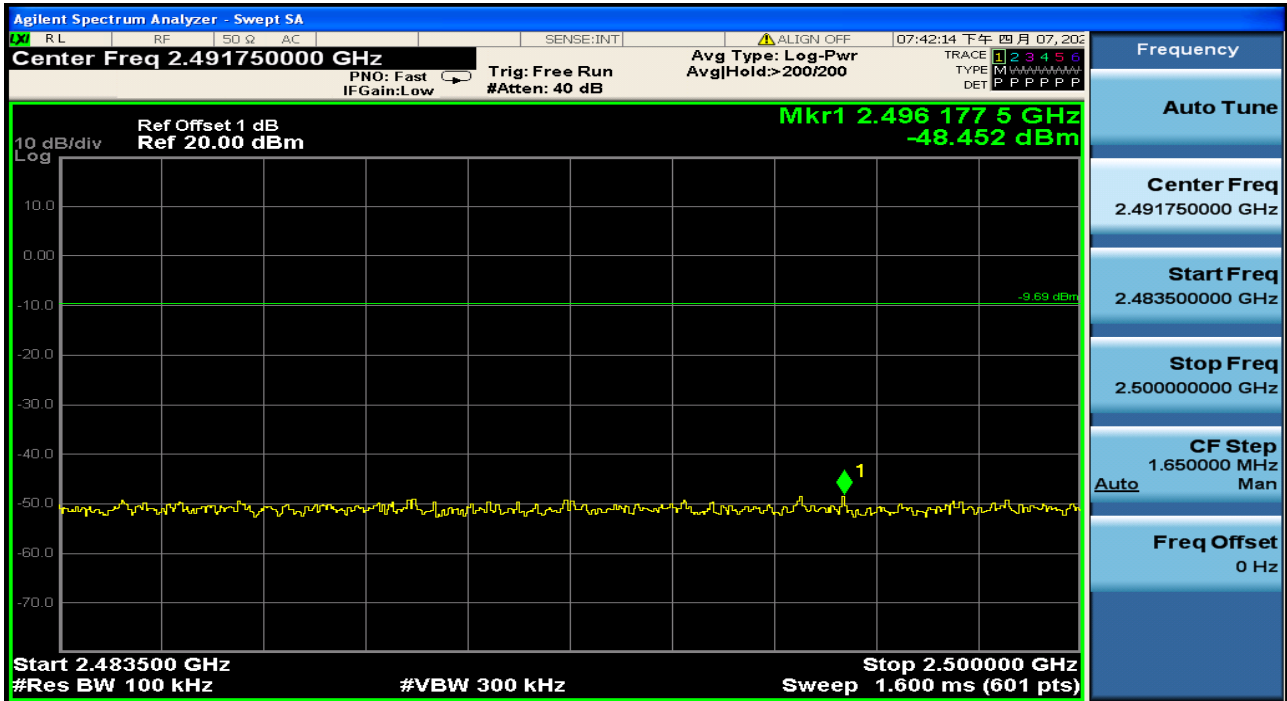
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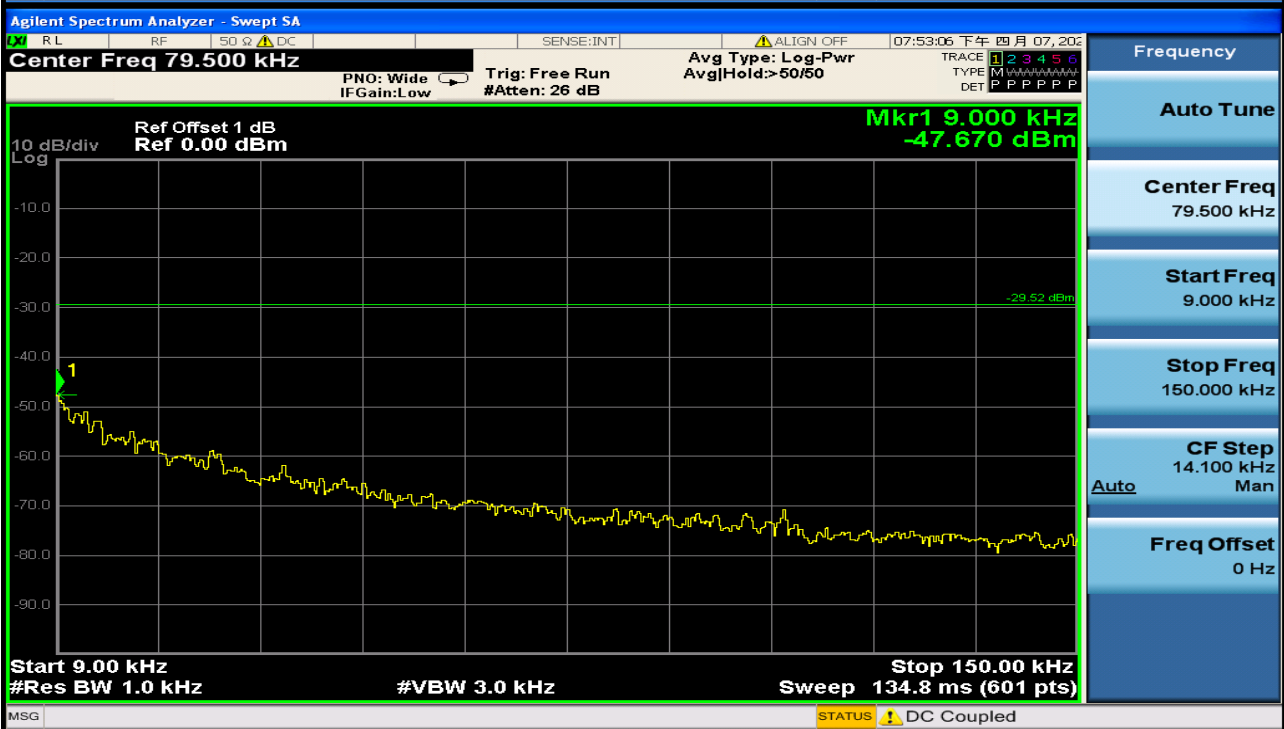
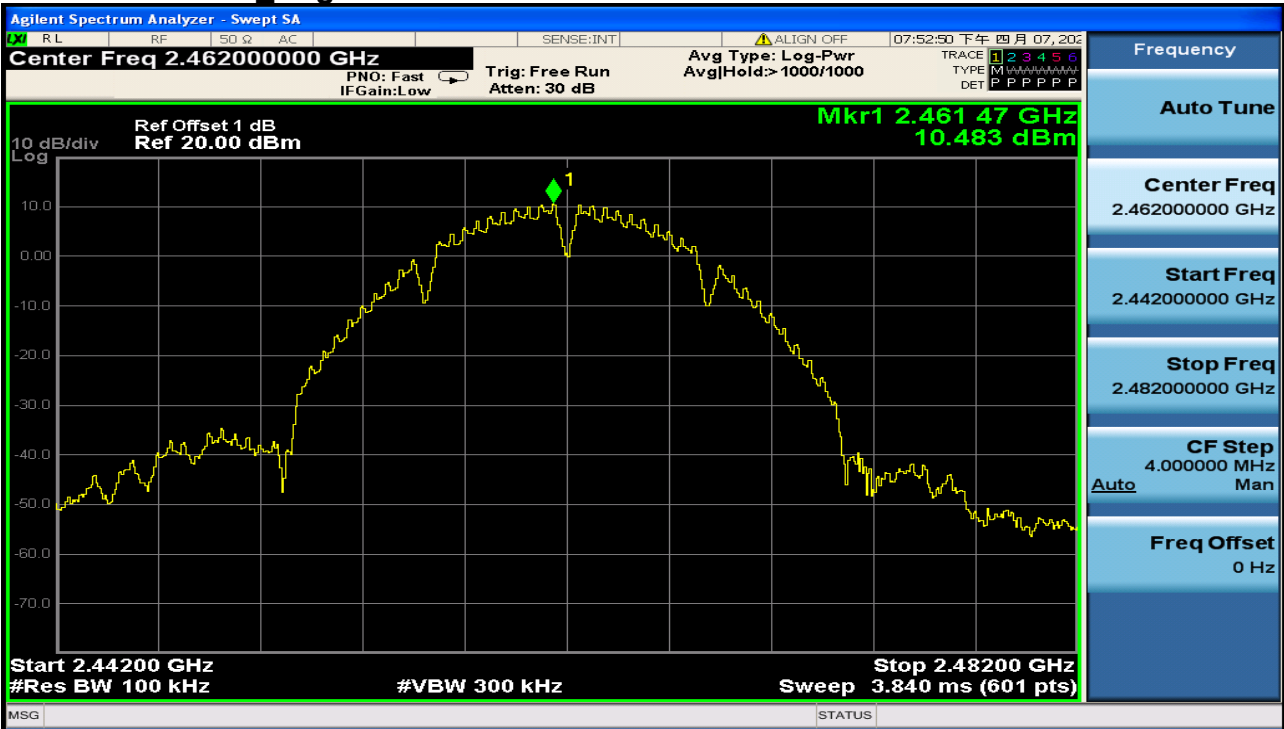
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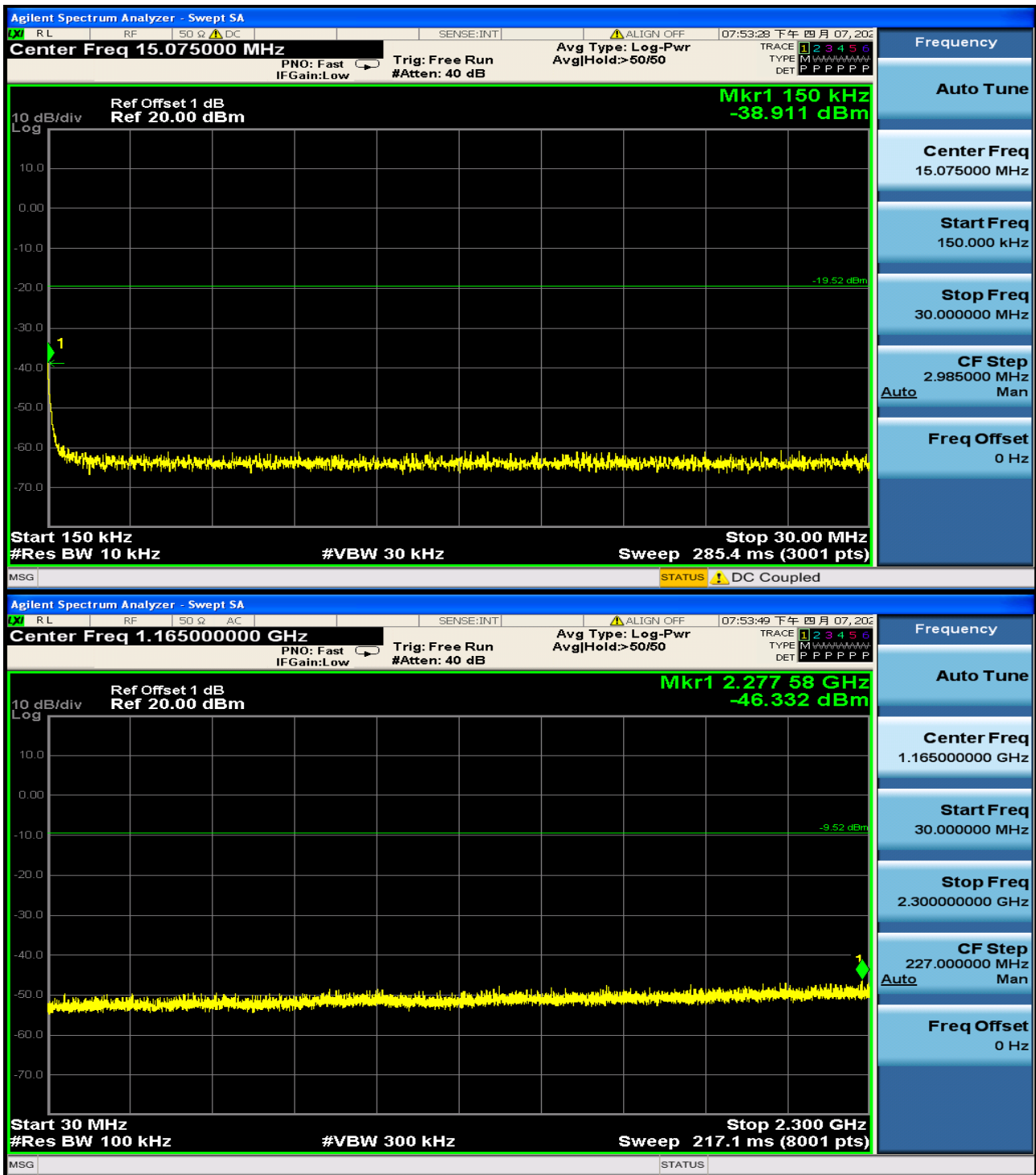
4.8.1.1.3 802.11B Highest Channel



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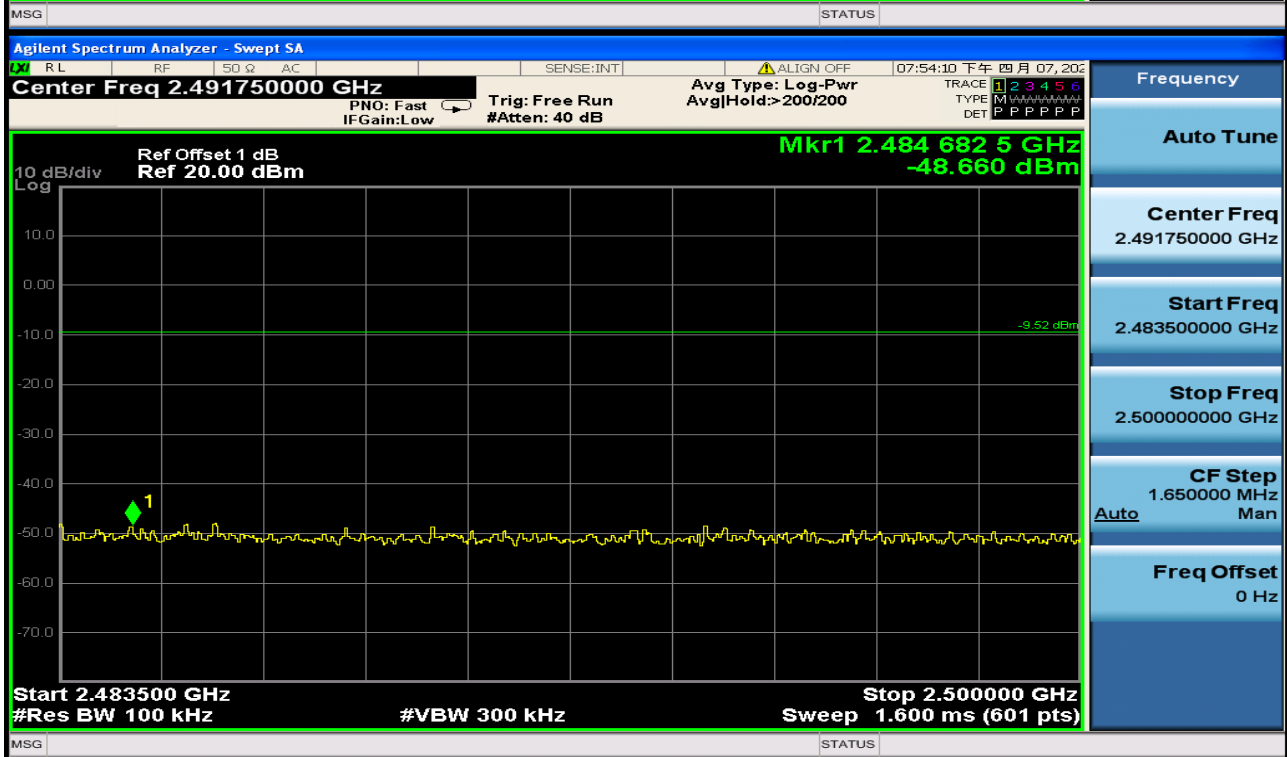
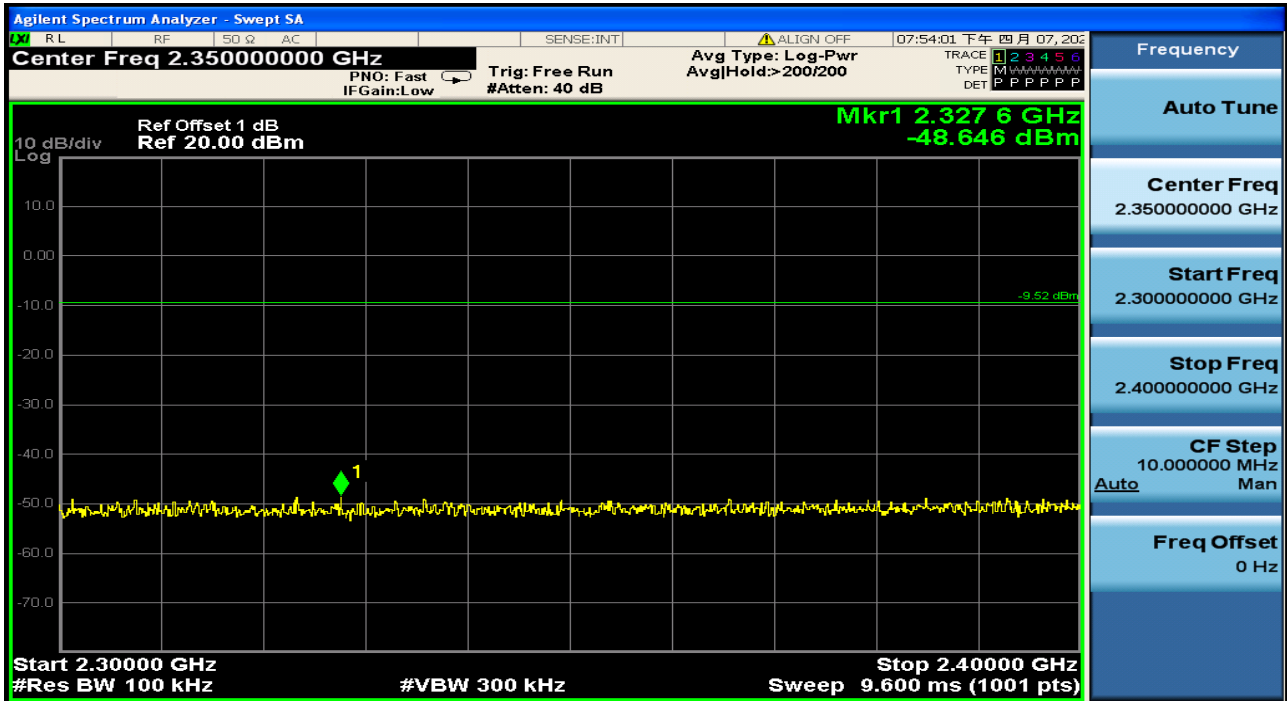
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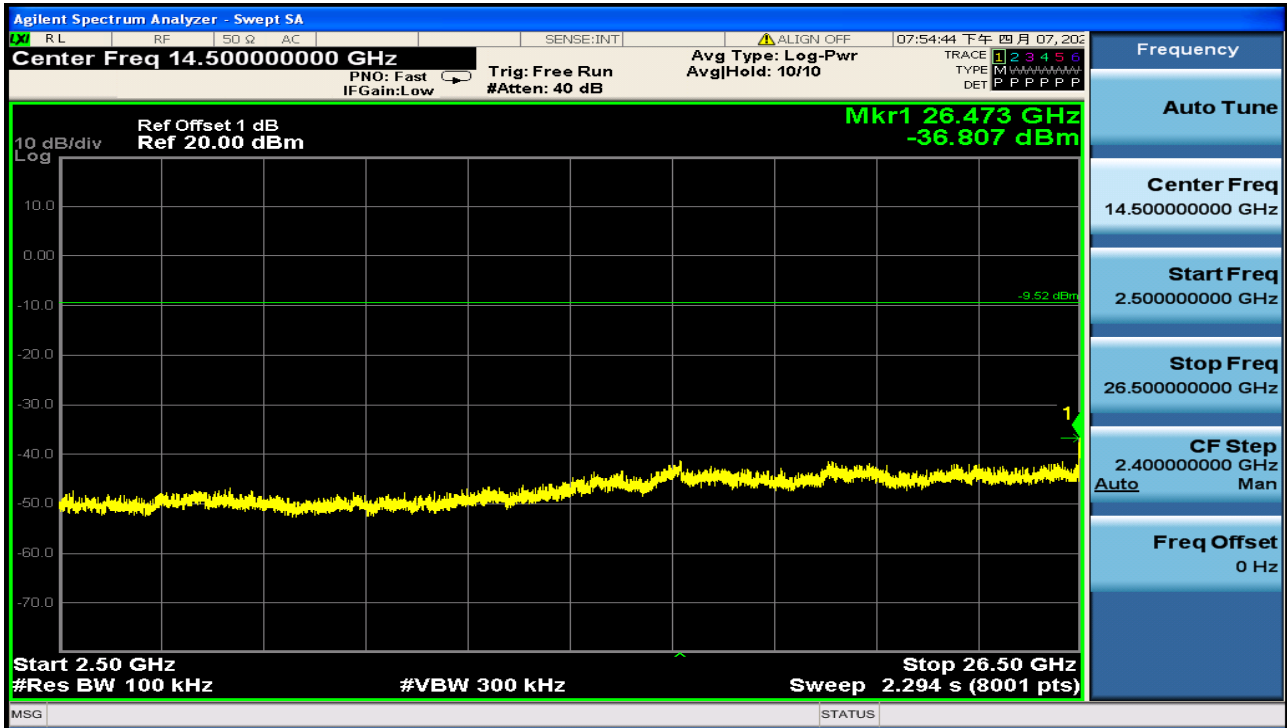
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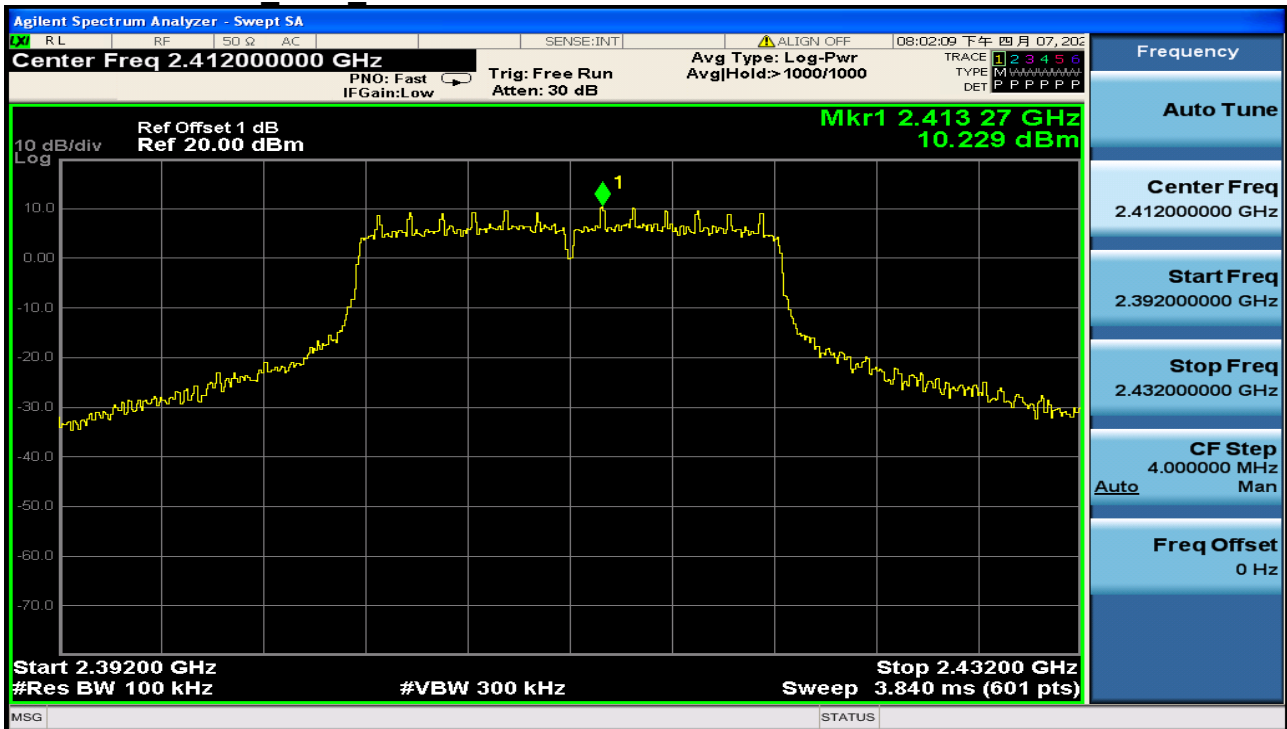


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#### 4.8.1.1.4 802.11G CDD Lowest Channel

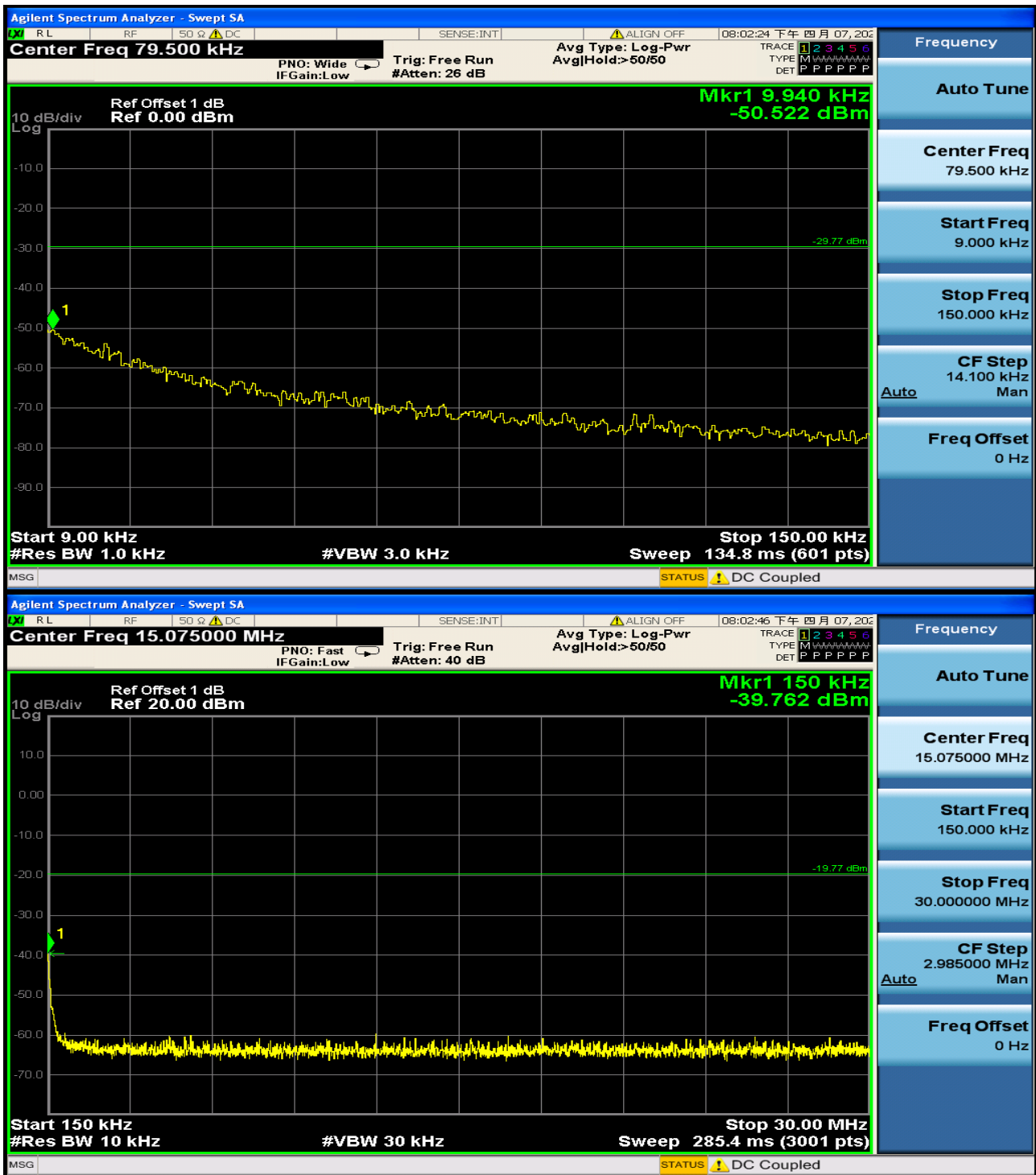


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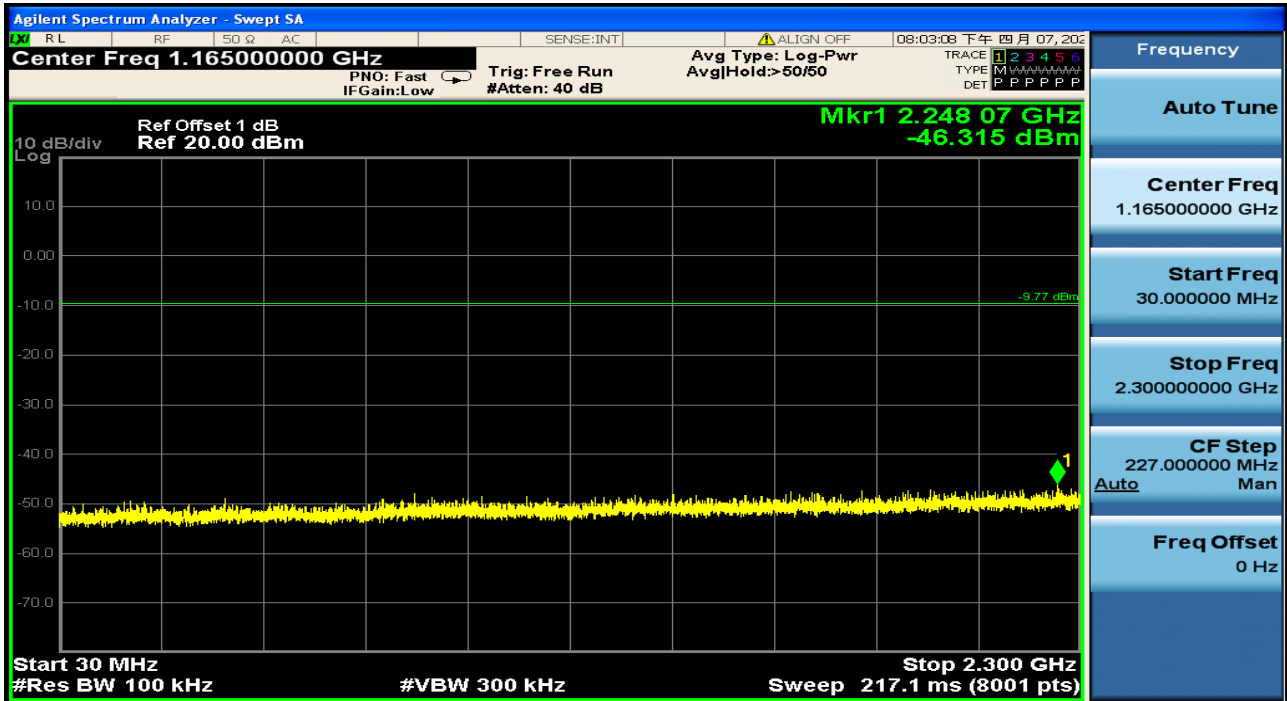
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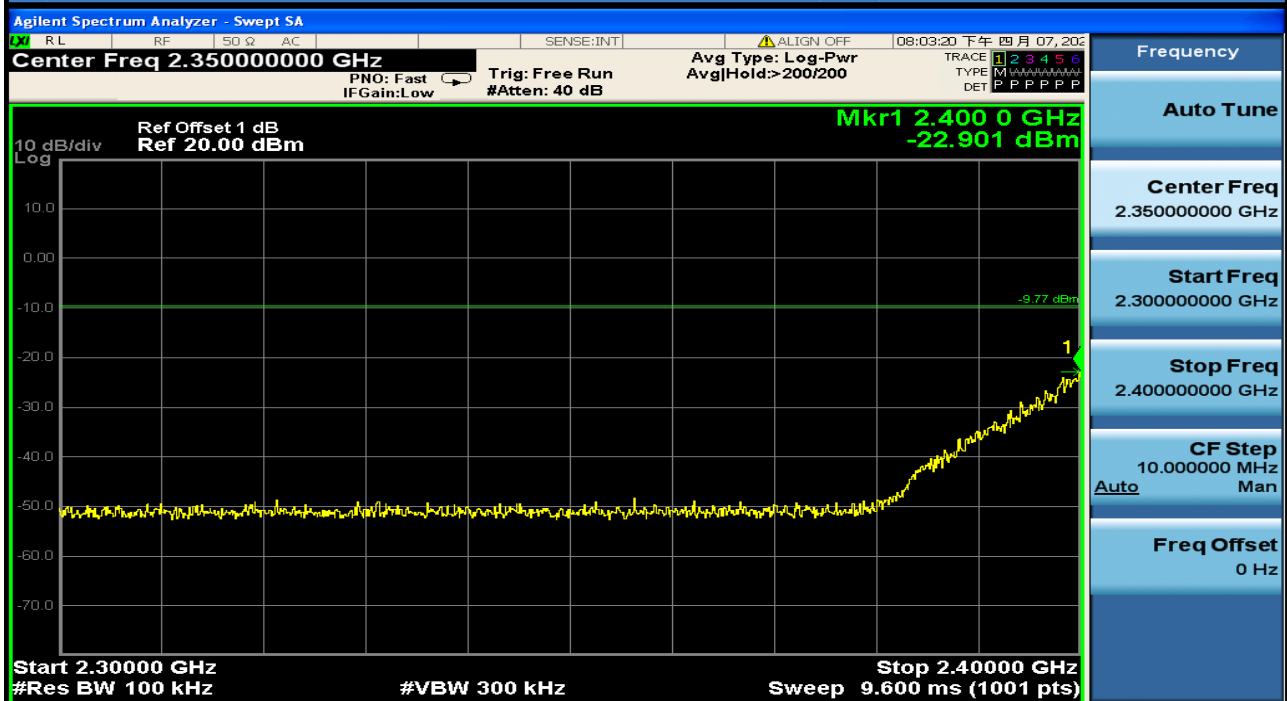


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Center Freq 1.16500000 GHz
Start Freq 30.000000 MHz
Stop Freq 2.30000000 GHz
CF Step 227.000000 MHz Auto Man
Freq Offset 0 Hz

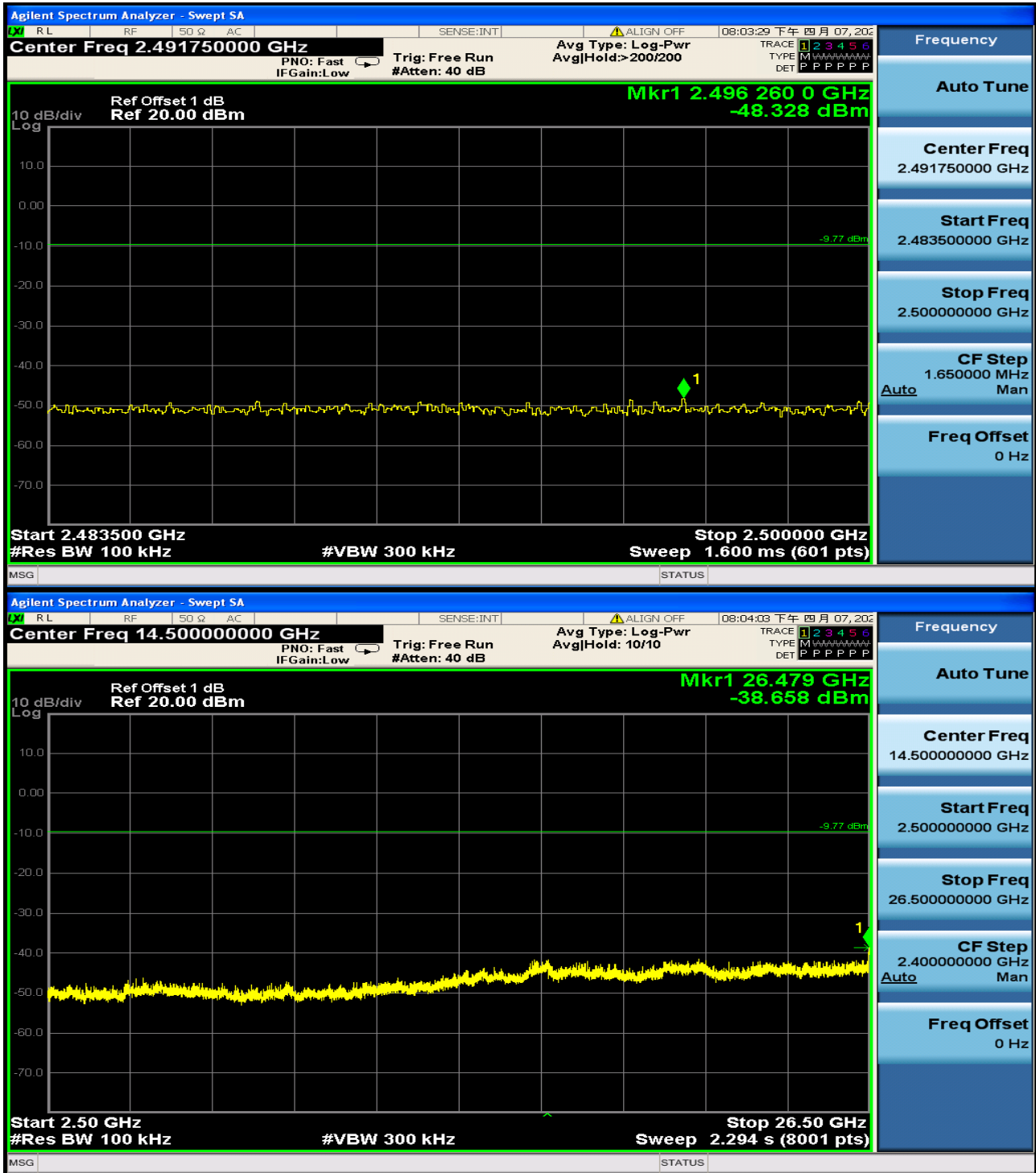


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CF Step 10.000000 MHz Auto Man
Freq Offset 0 Hz



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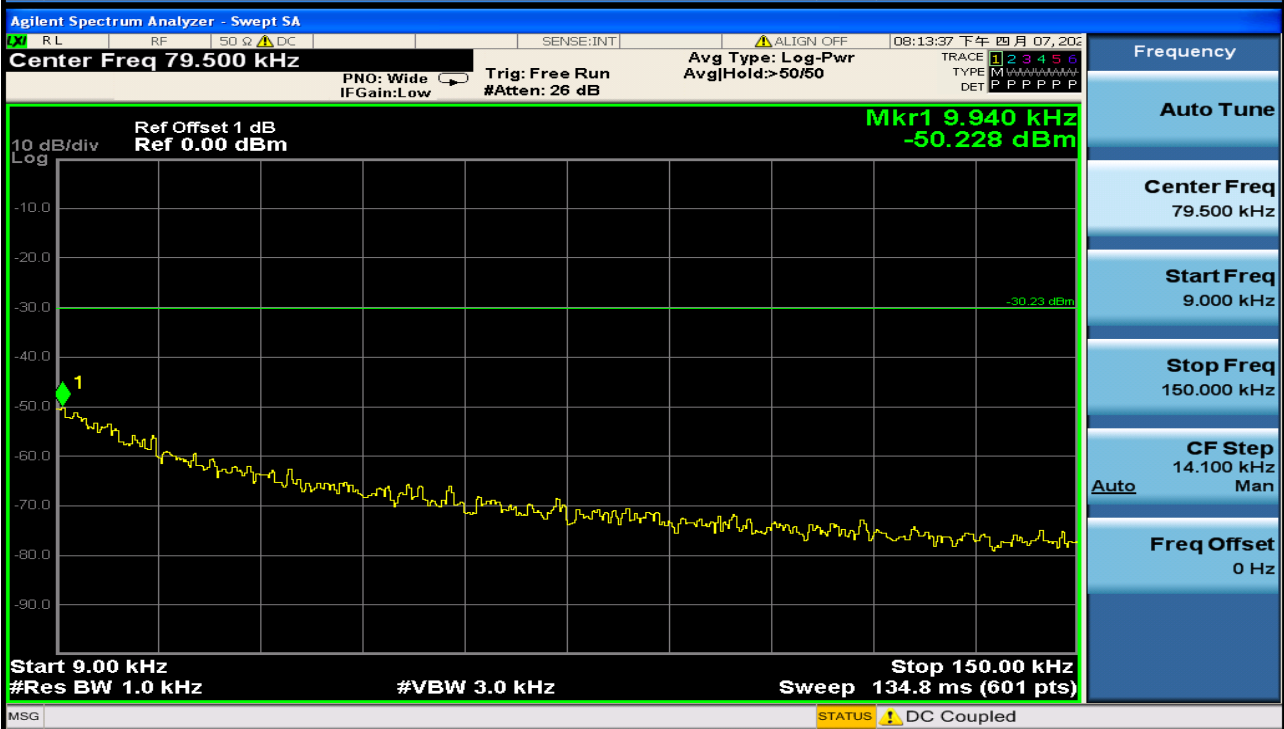
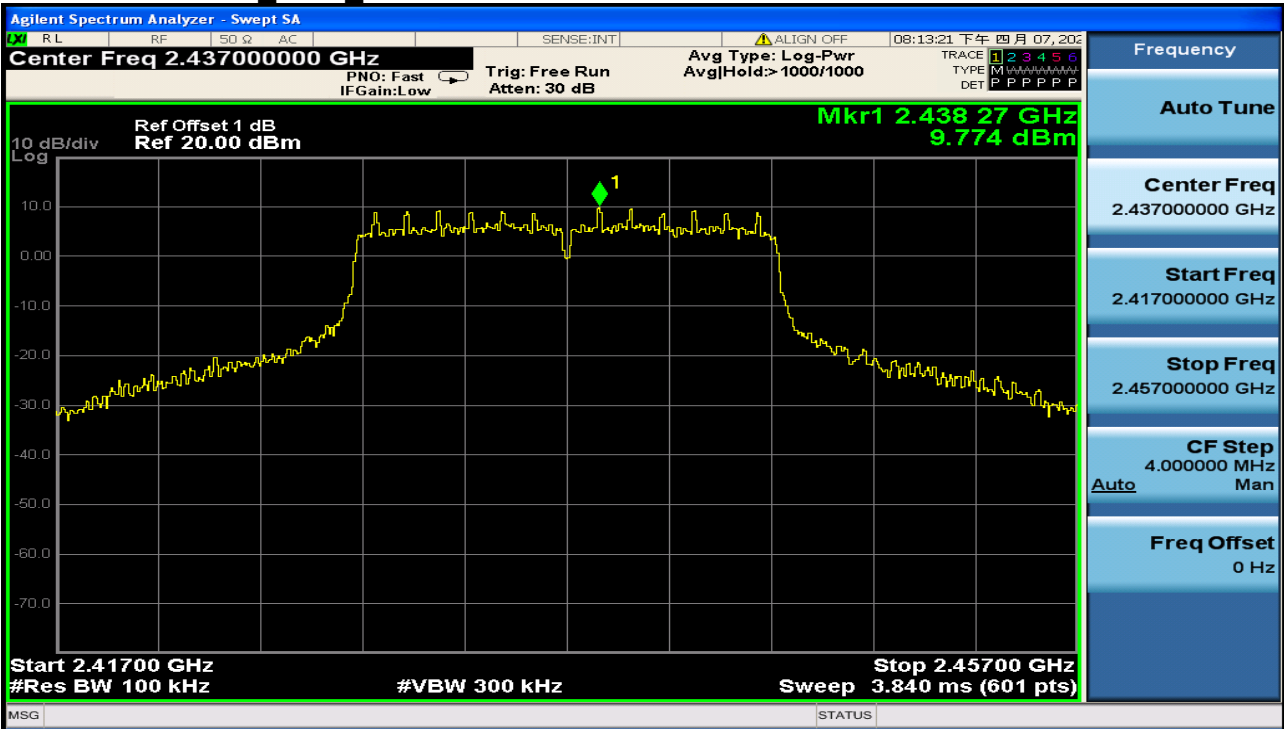


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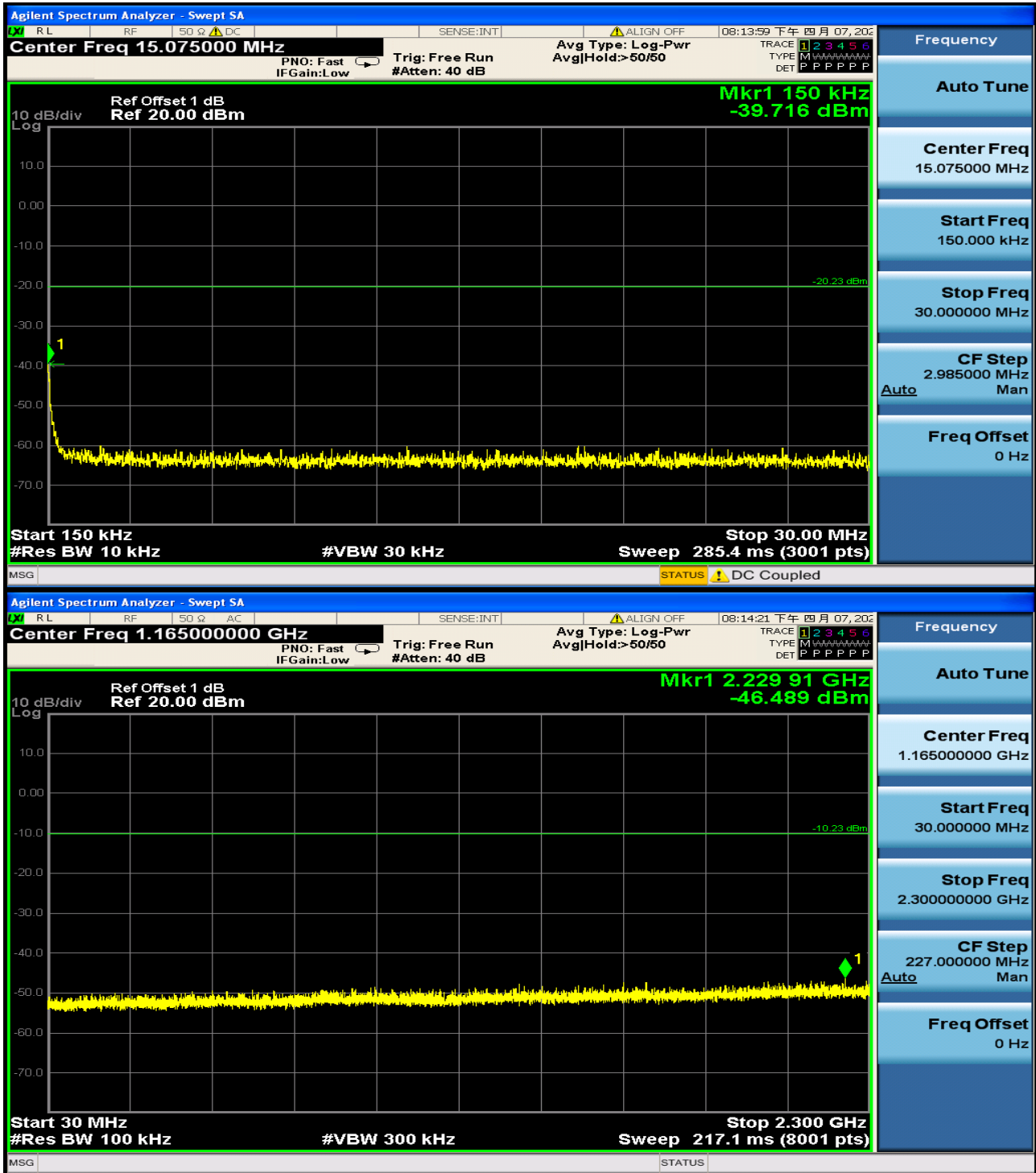


4.8.1.1.5 802.11G CDD Middle Channel



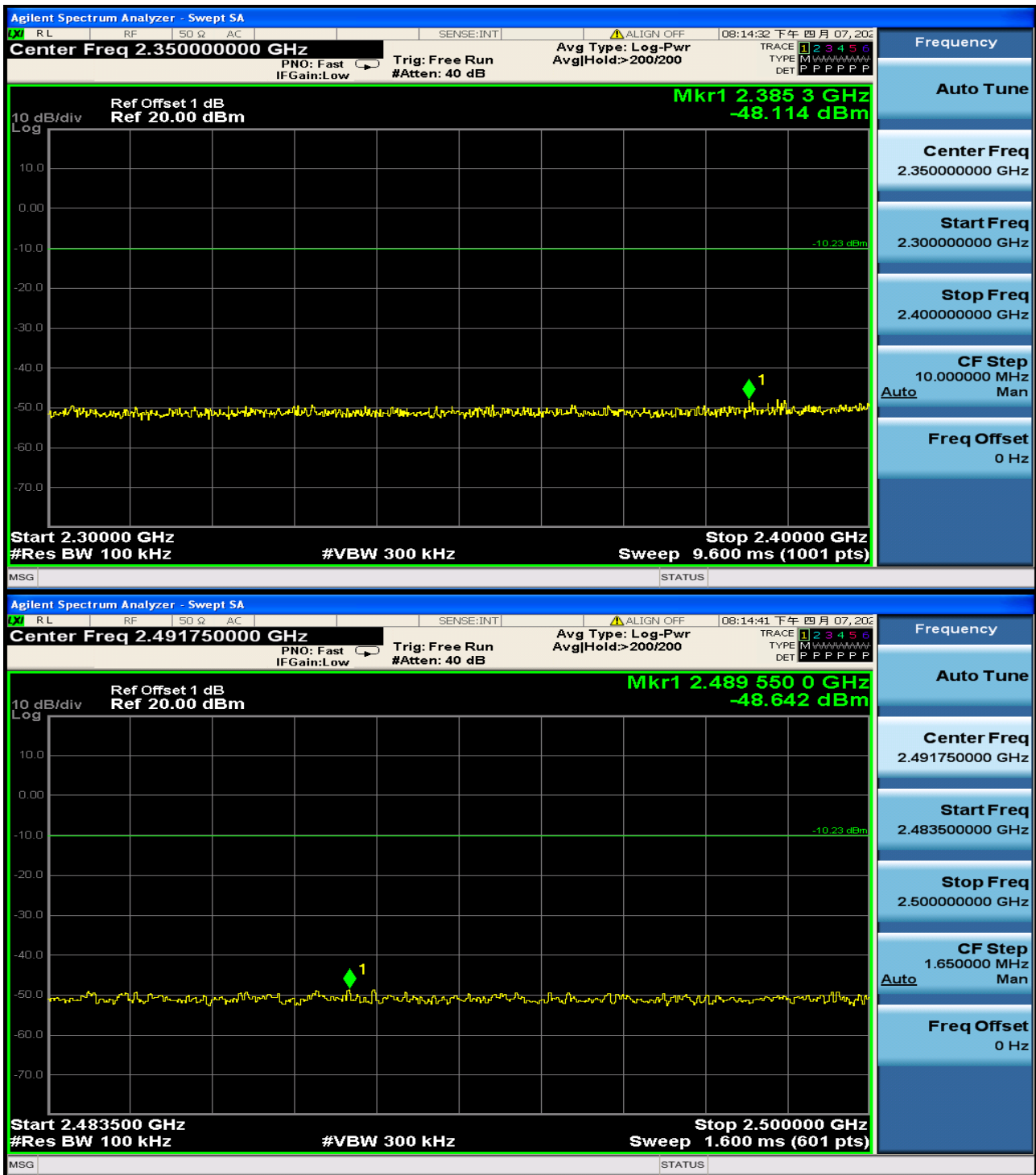
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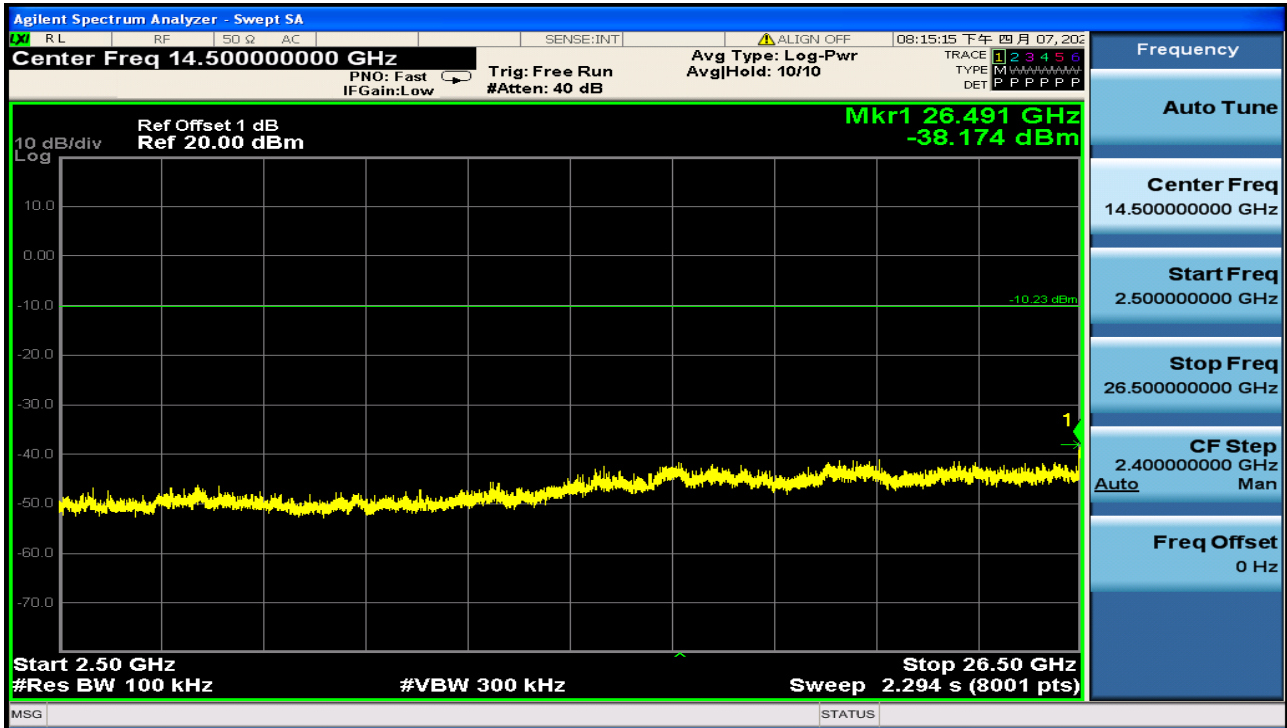
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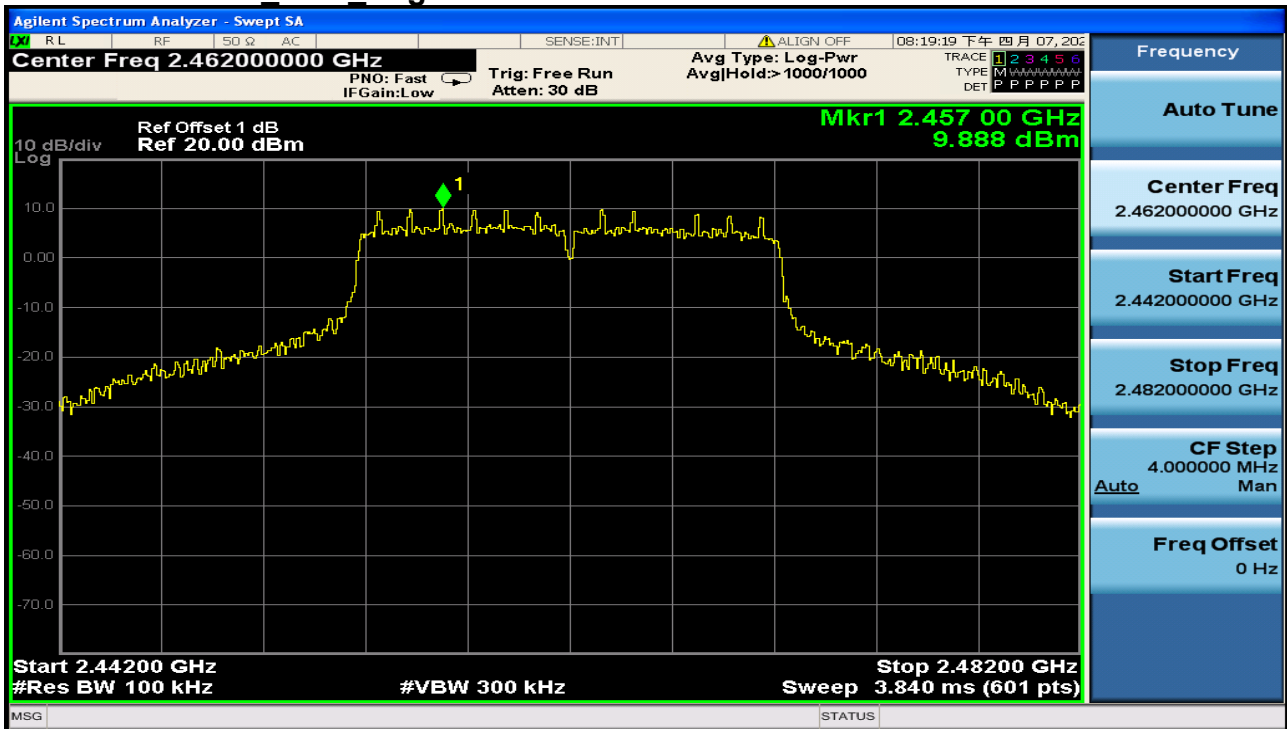


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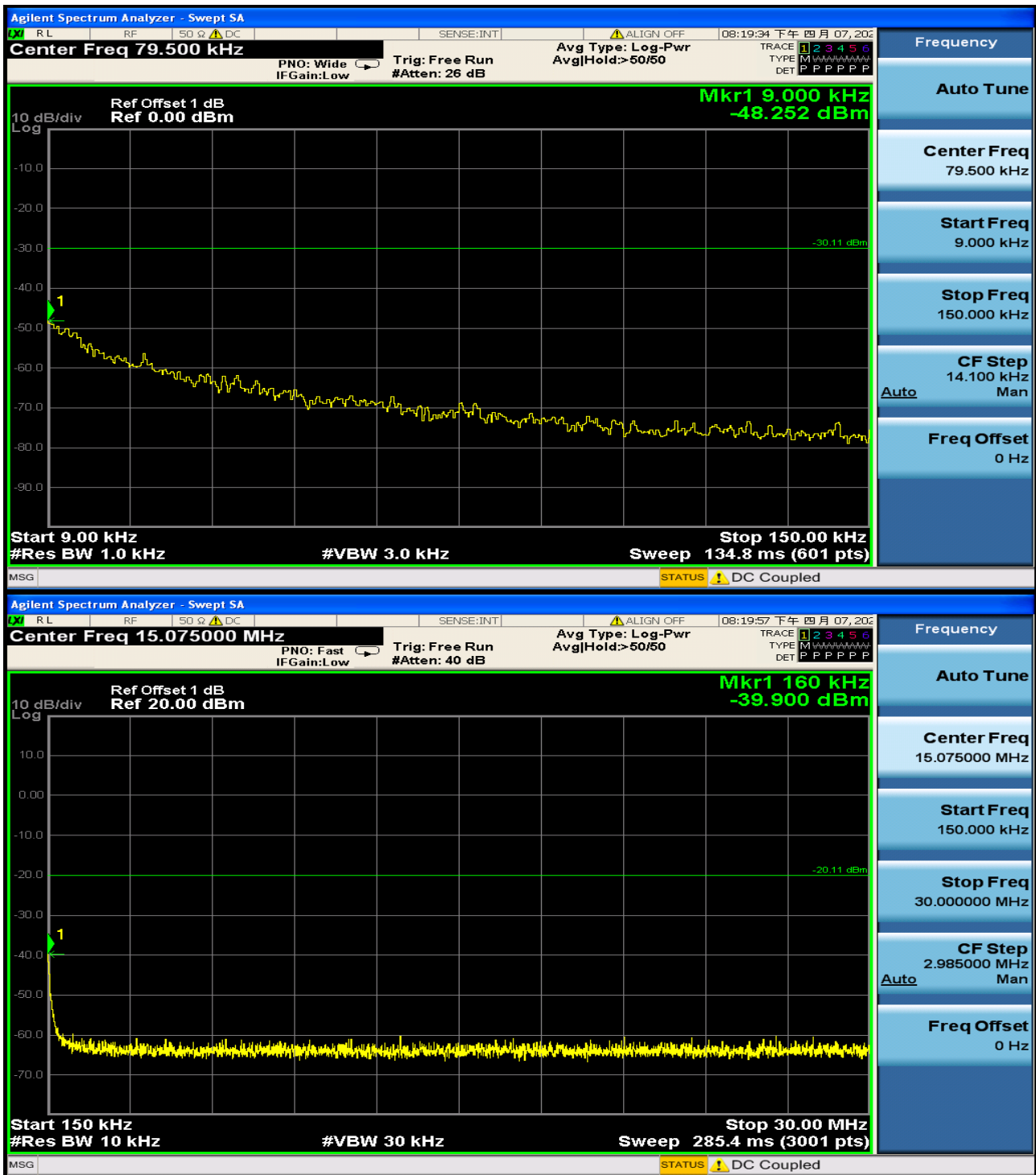


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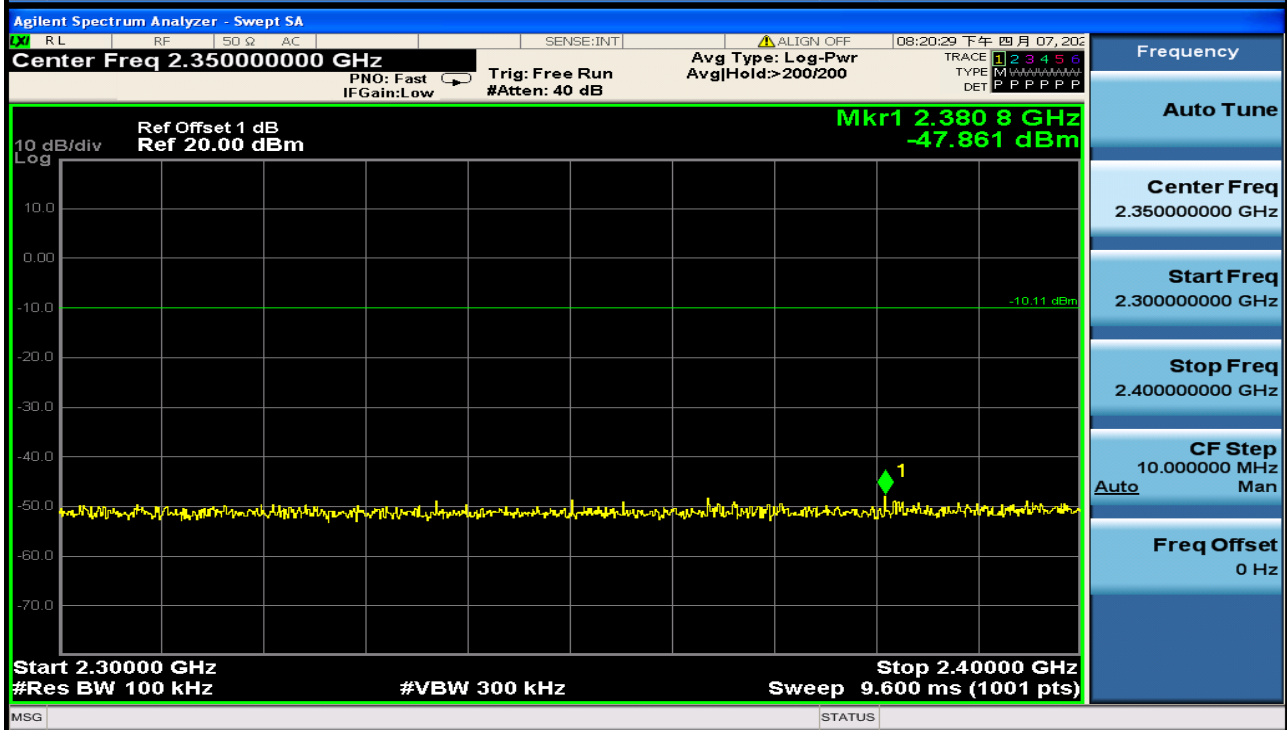
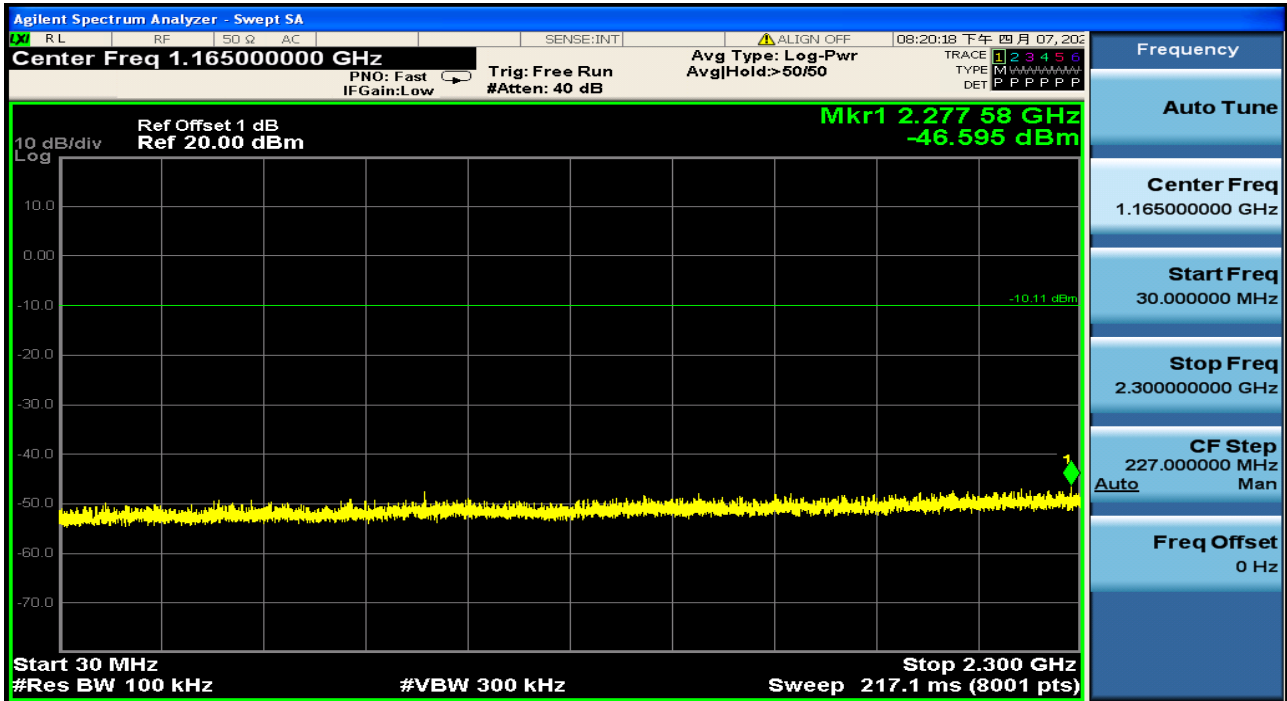


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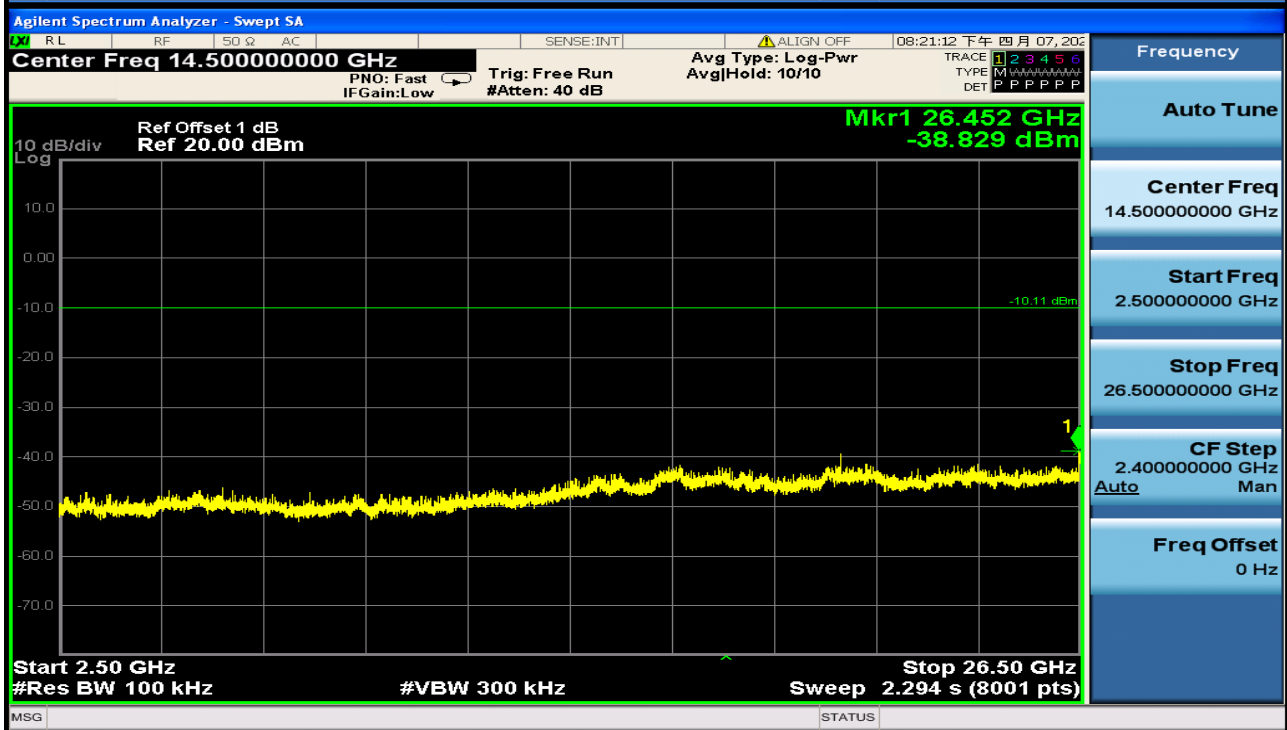
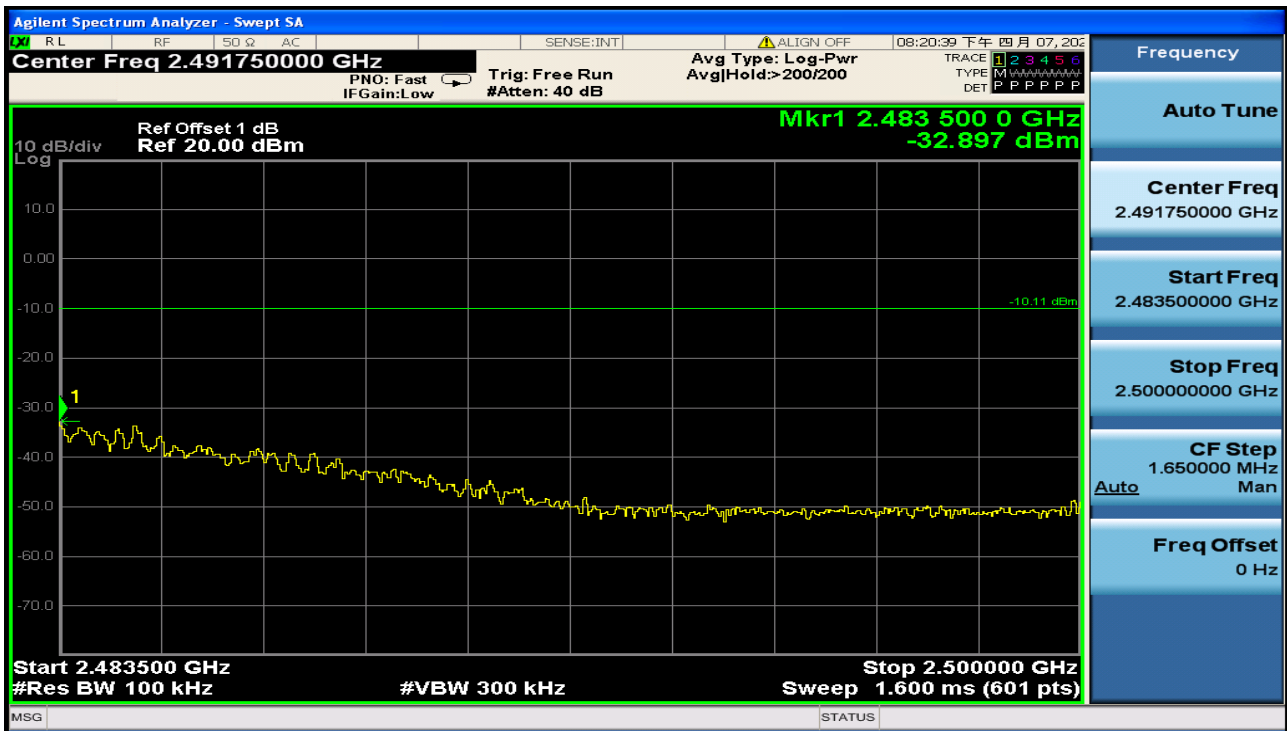






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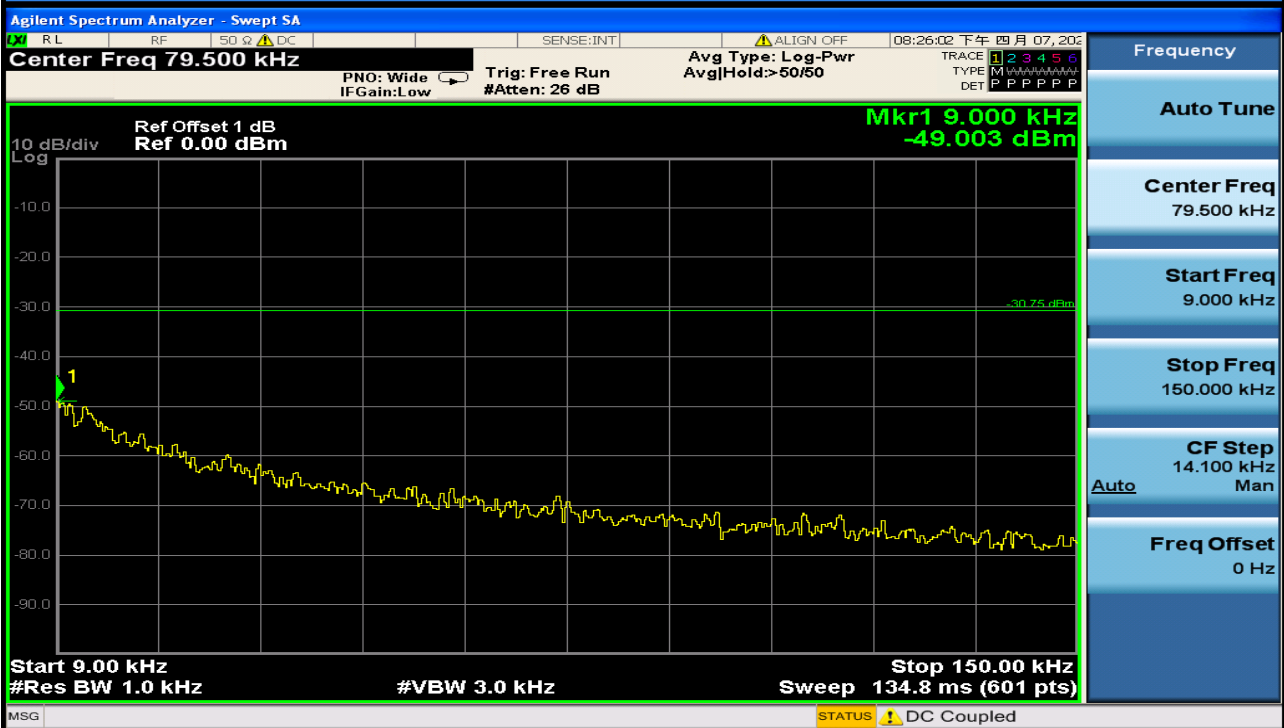
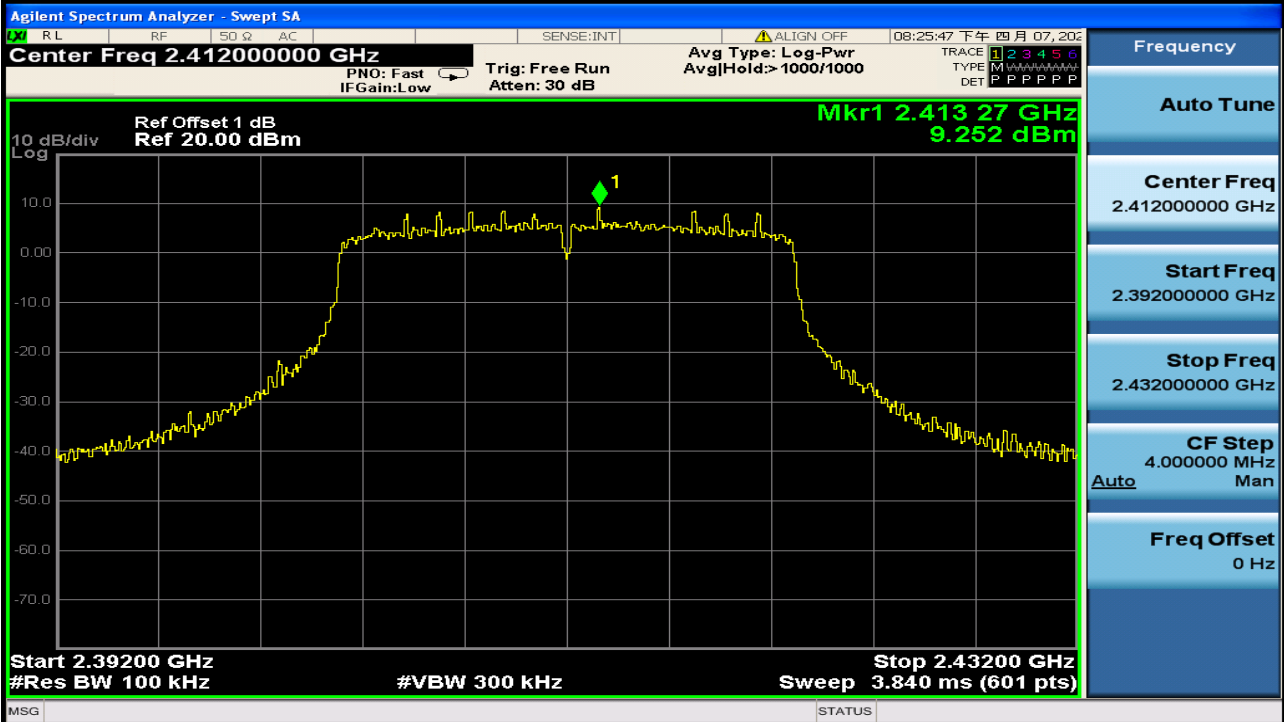


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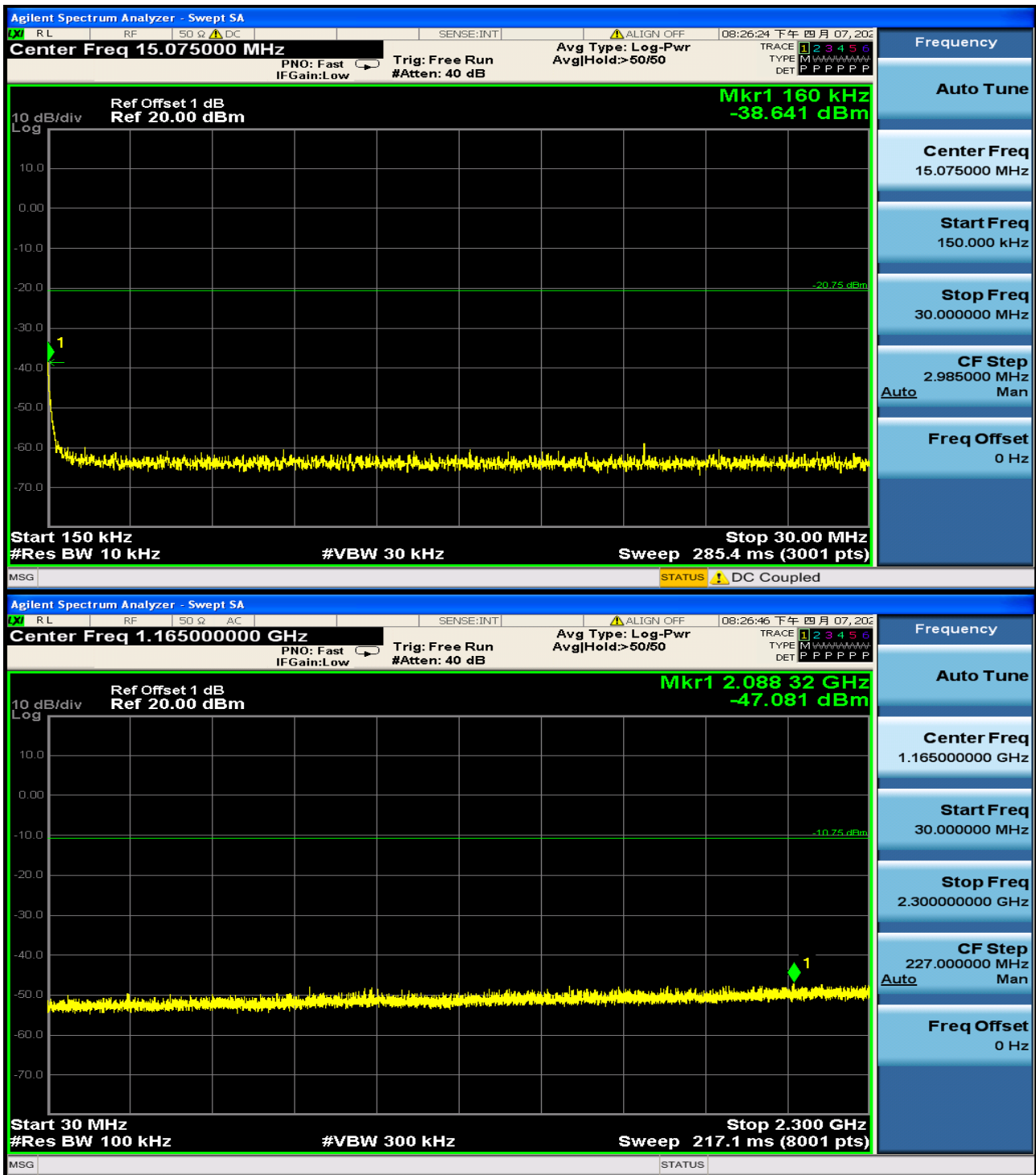
4.8.1.1.7 802.11N20MIMO\_Lowest Channel



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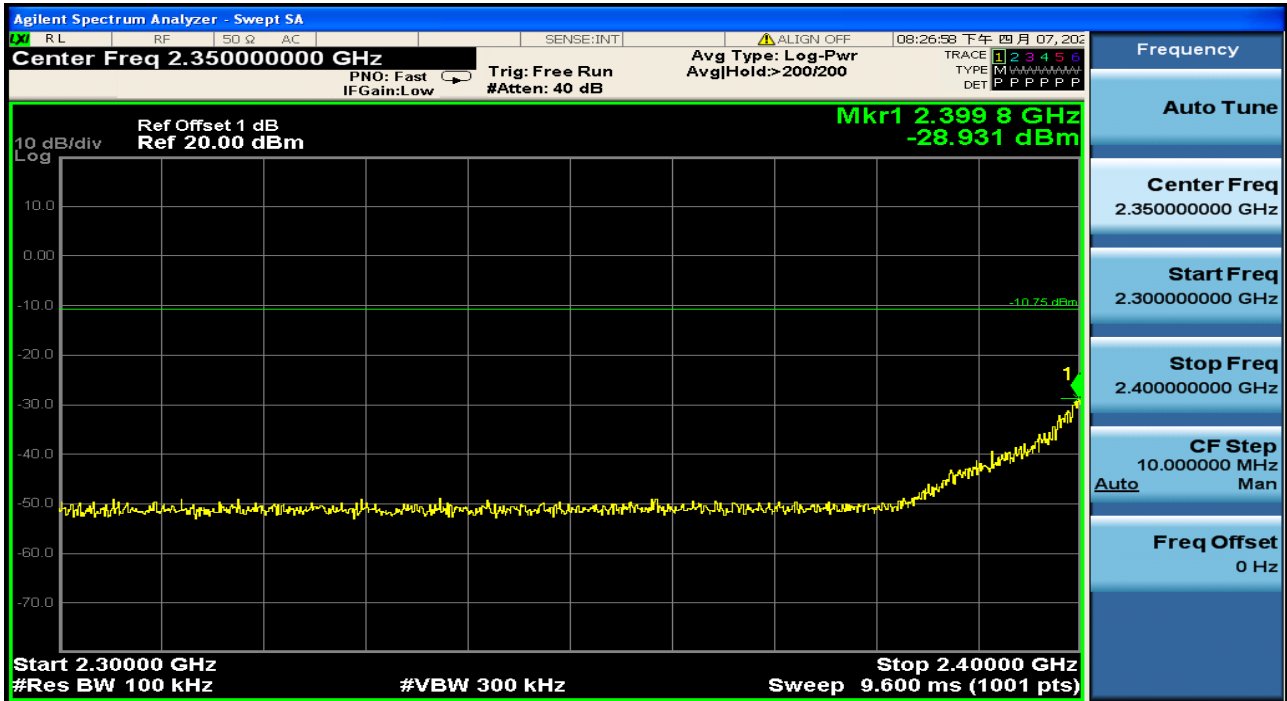
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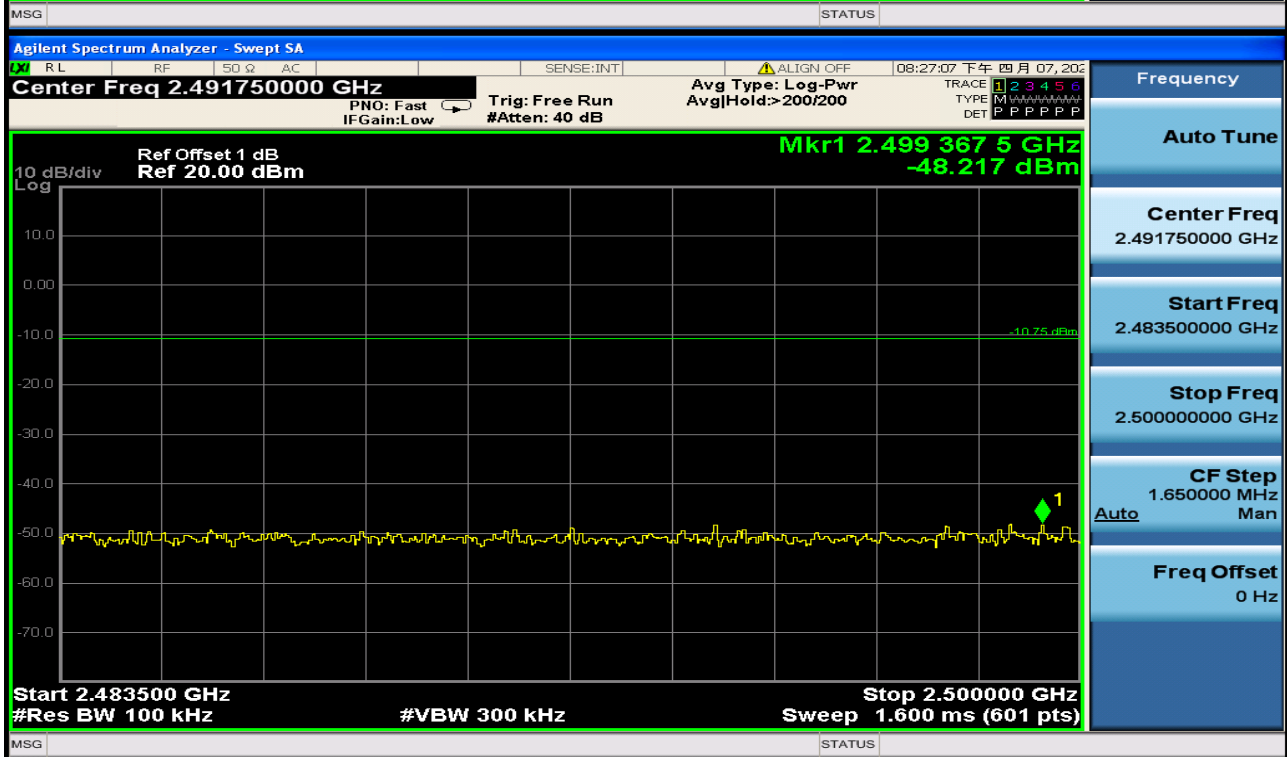


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Start Freq 2.30000000 GHz
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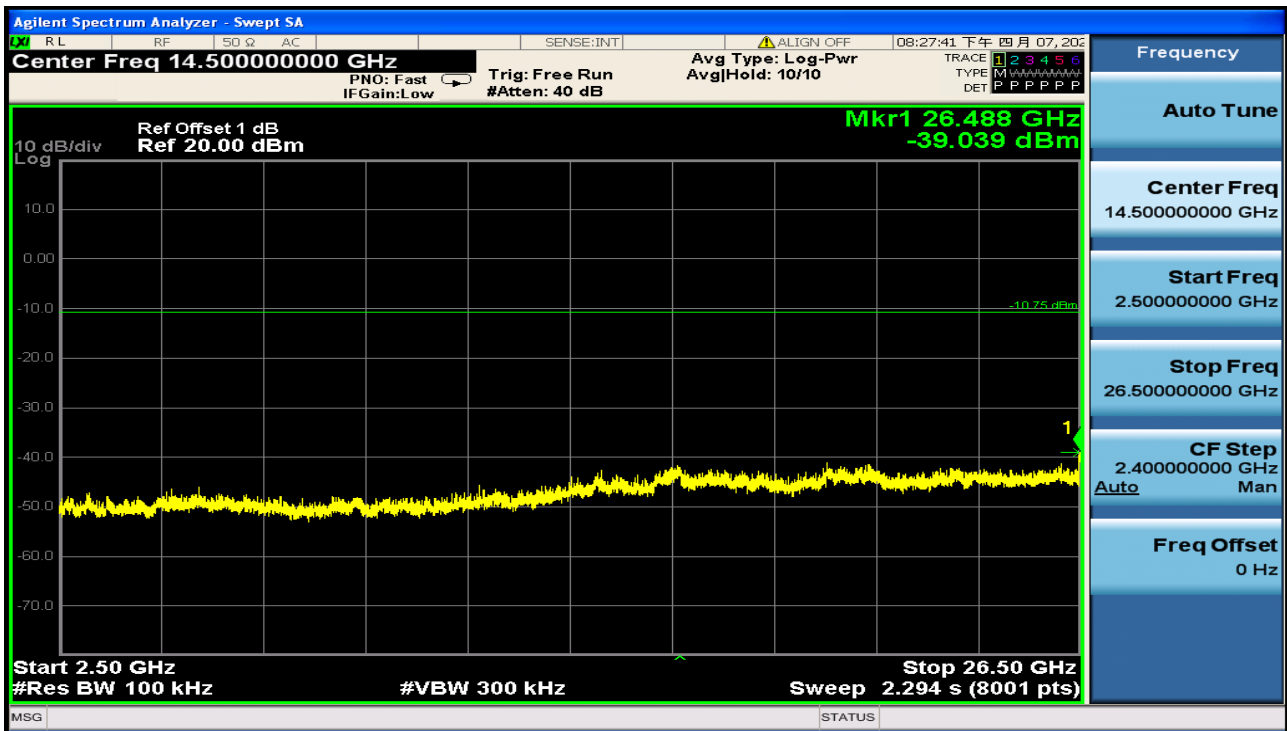


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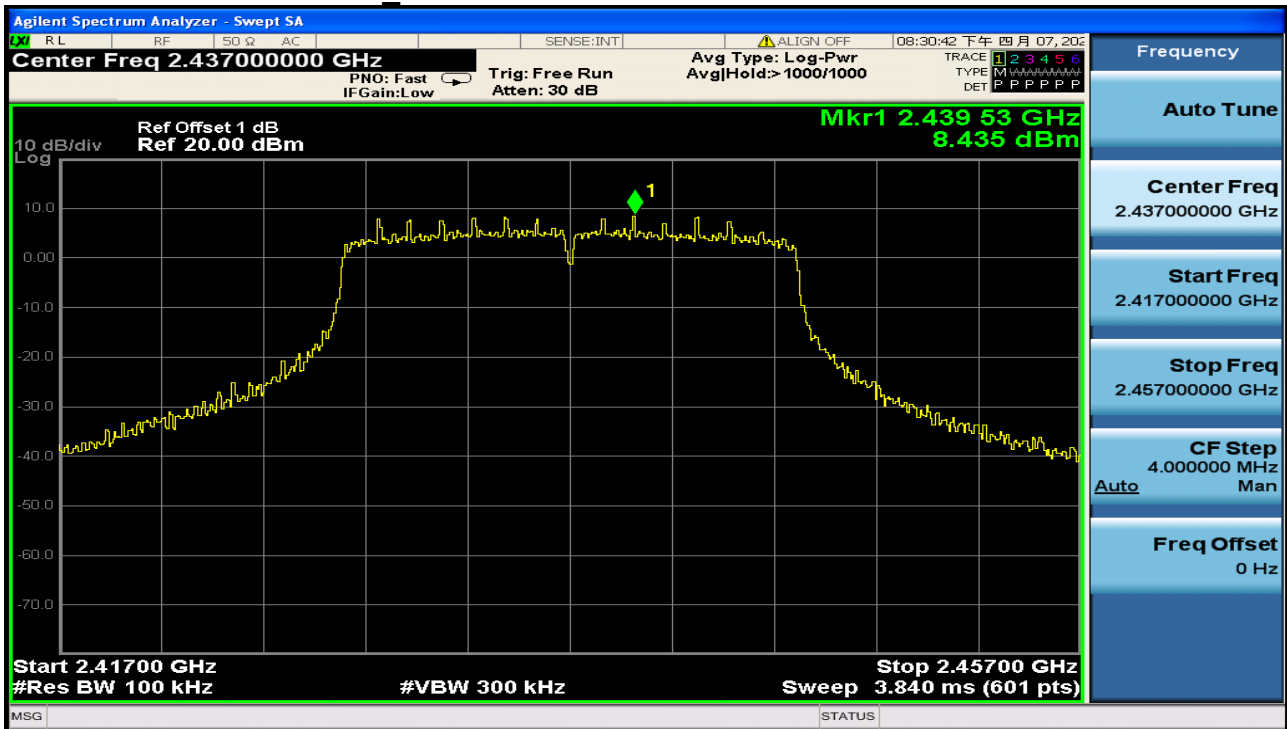


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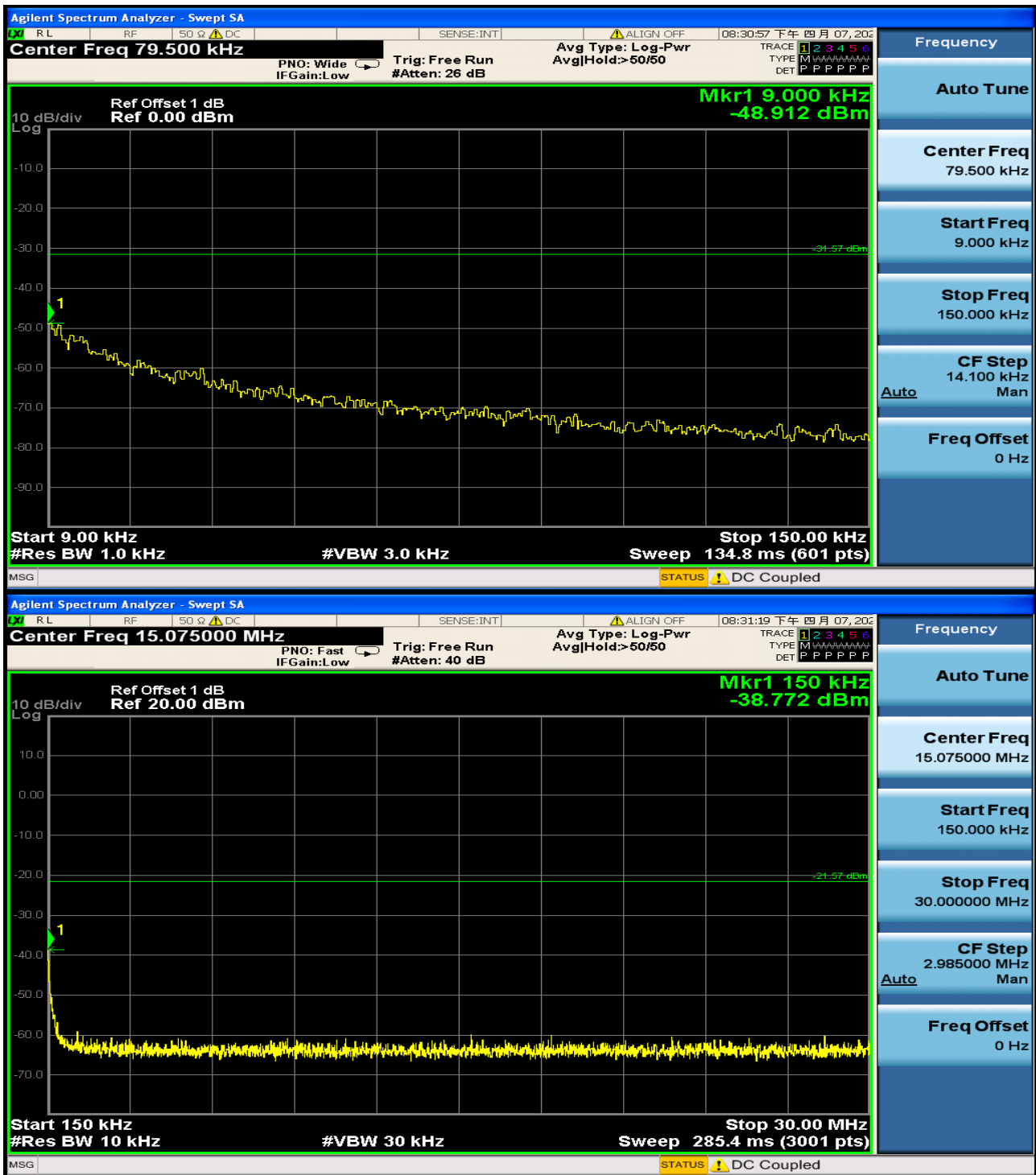
#### 4.8.1.1.8 802.11N20MIMO\_Middle Channel



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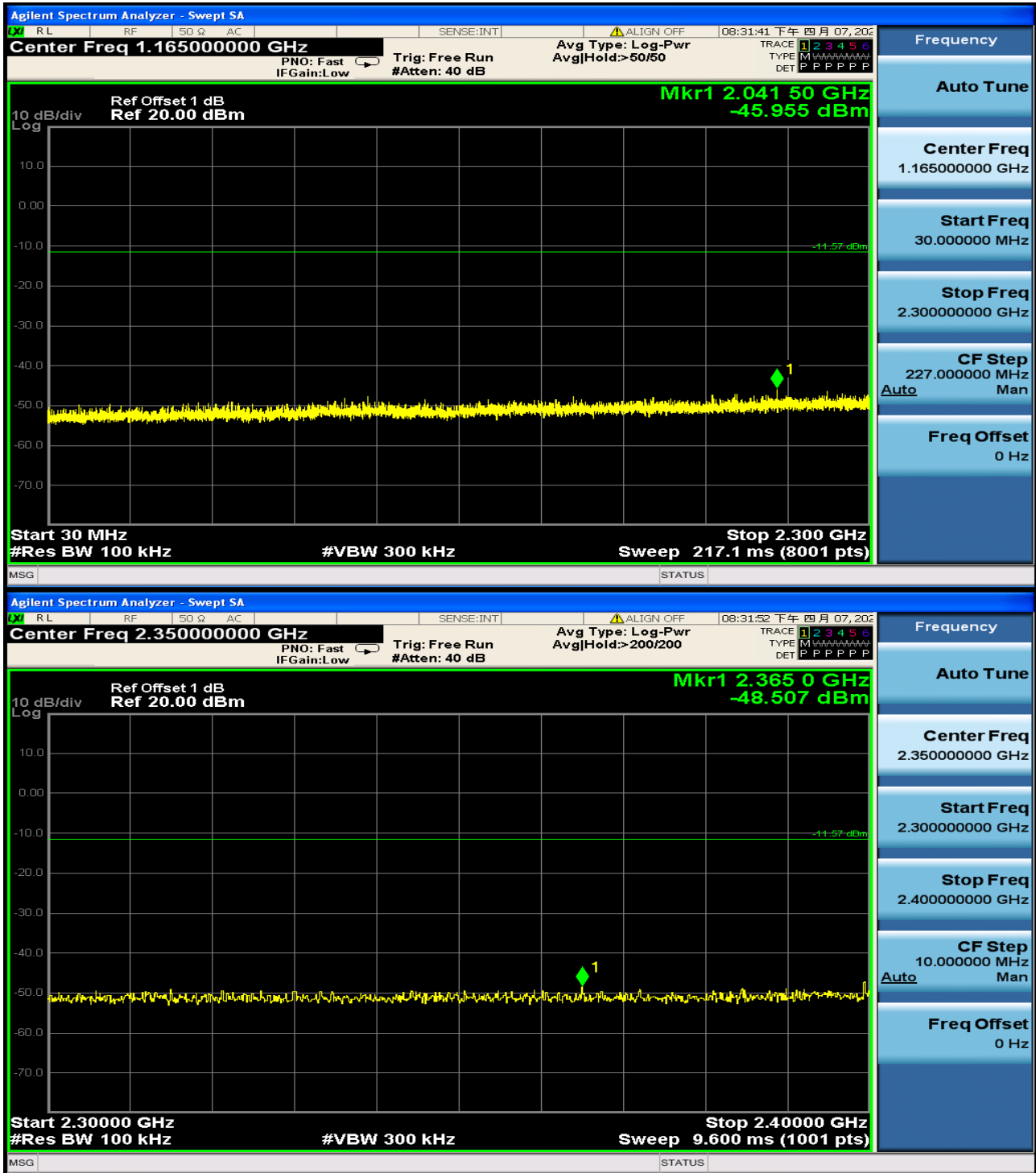
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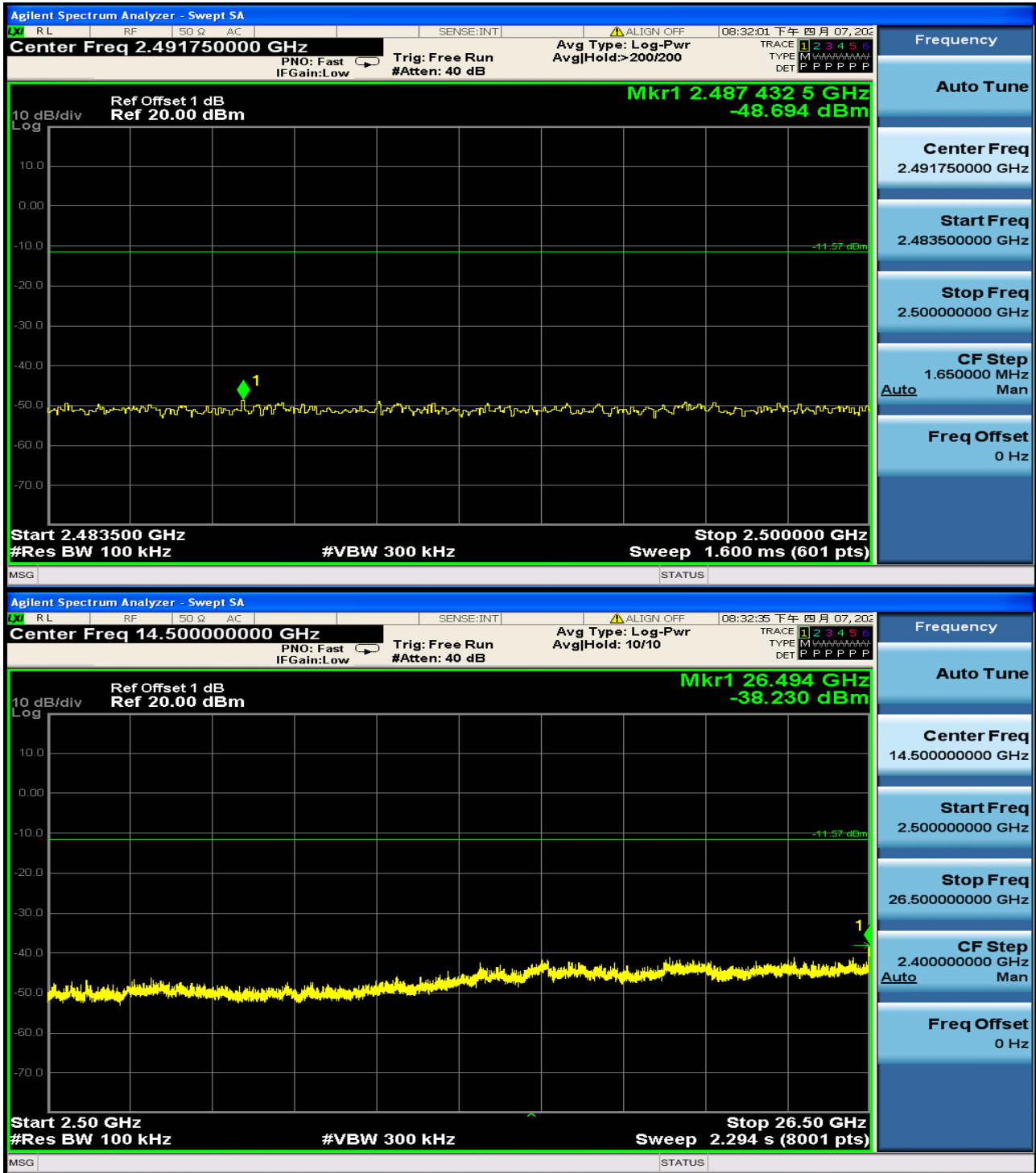
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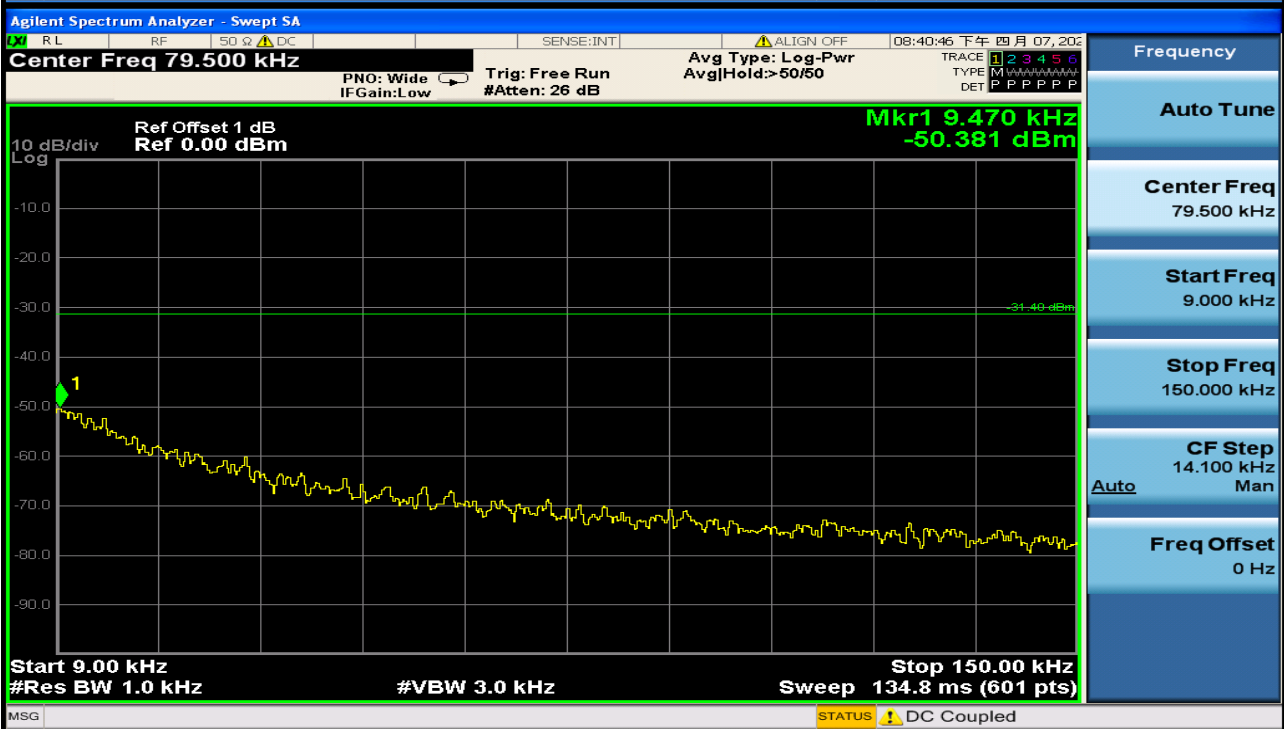
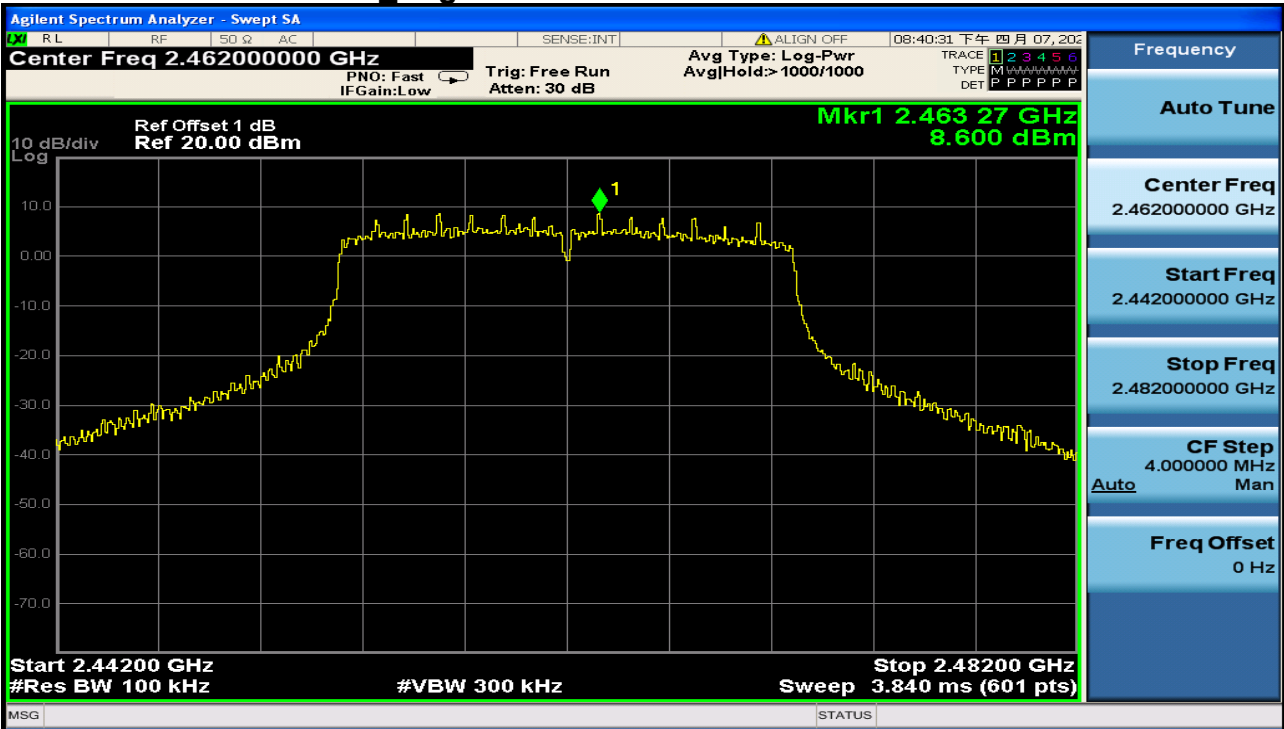


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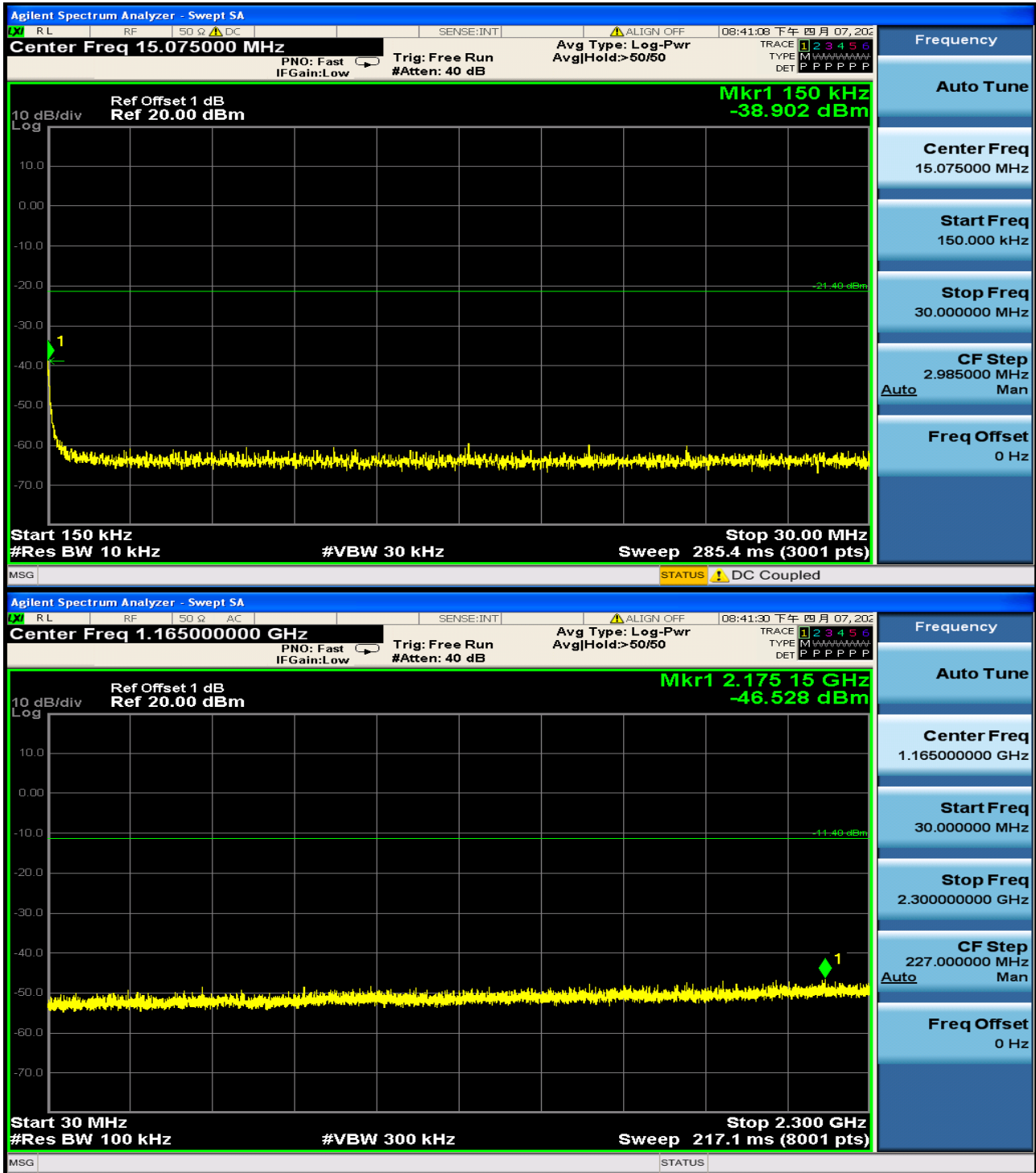
### 4.8.1.1.9 802.11N20MIMO\_Highest Channel



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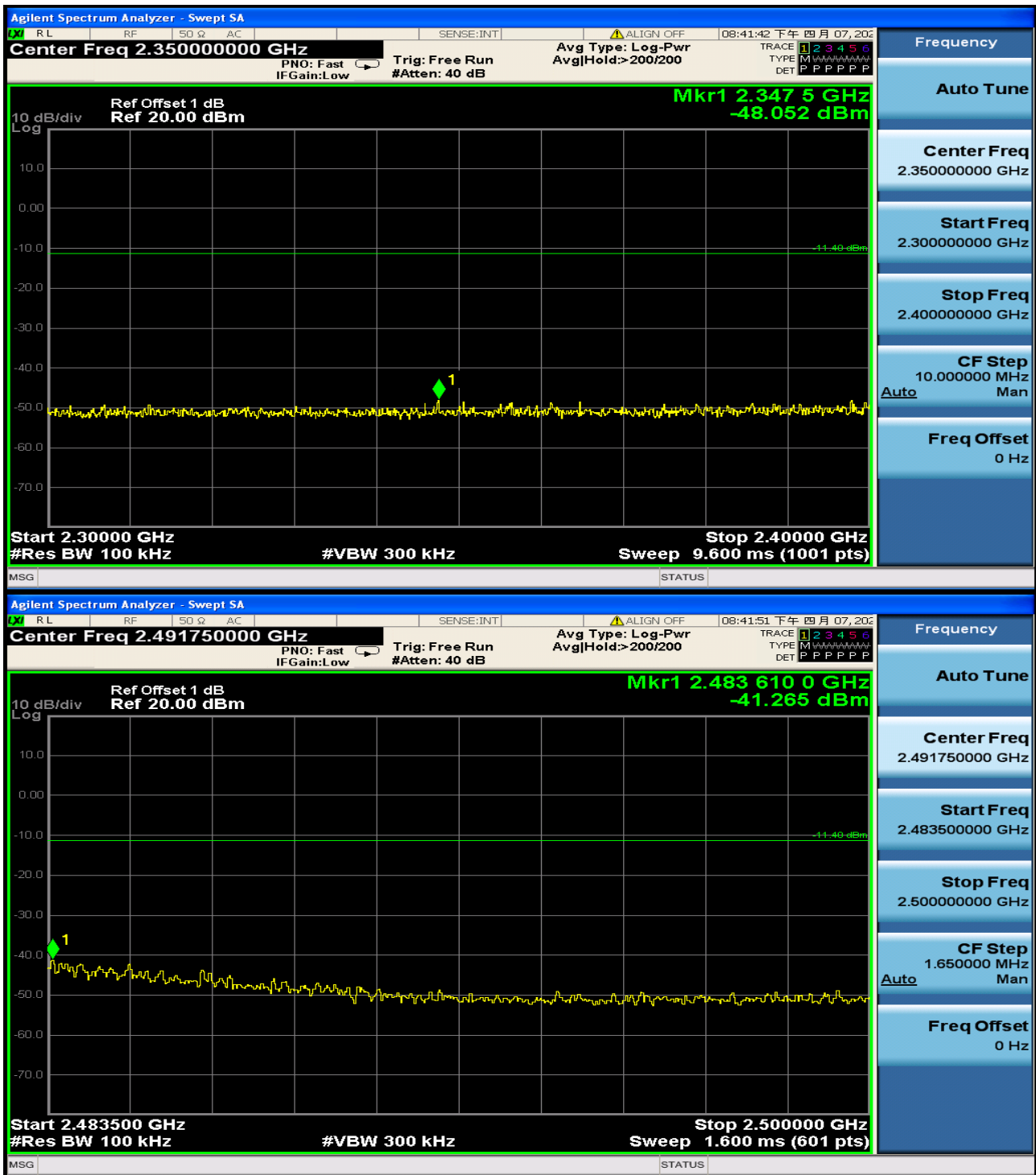
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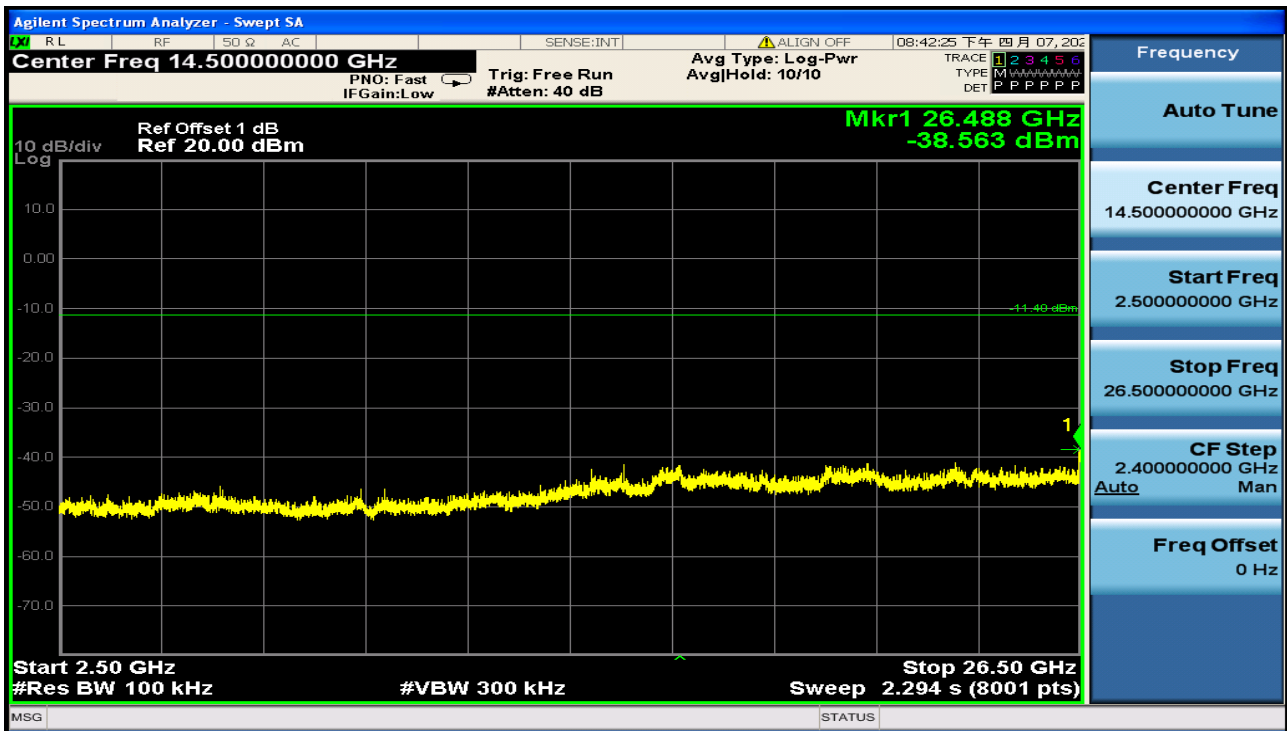
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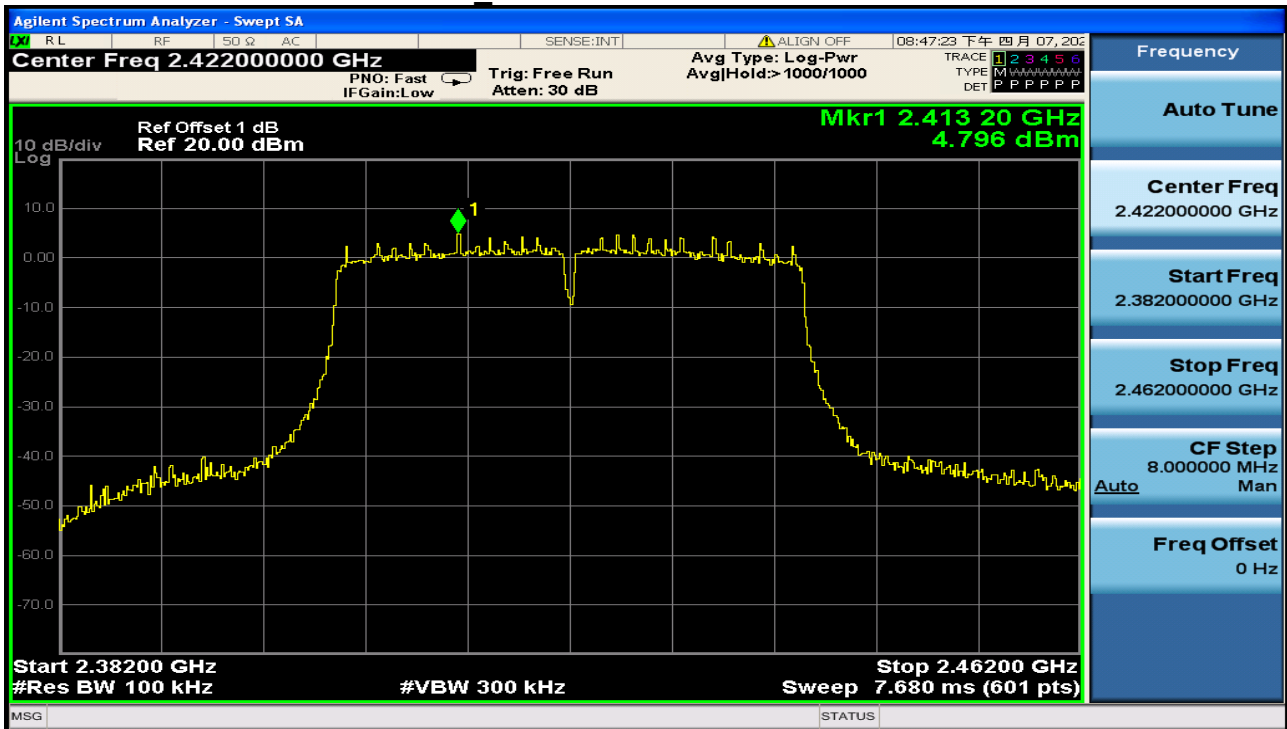


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#### 4.8.1.1.10 802.11N40MIMO Lowest Channel

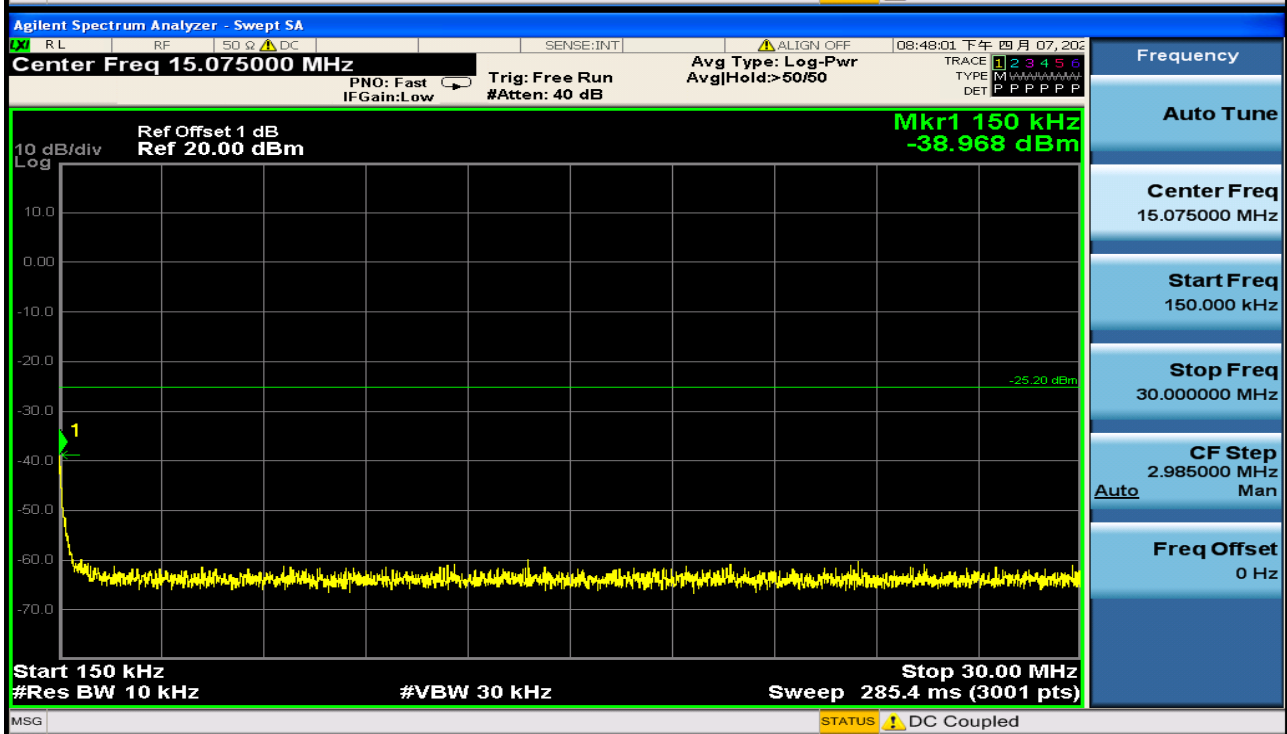
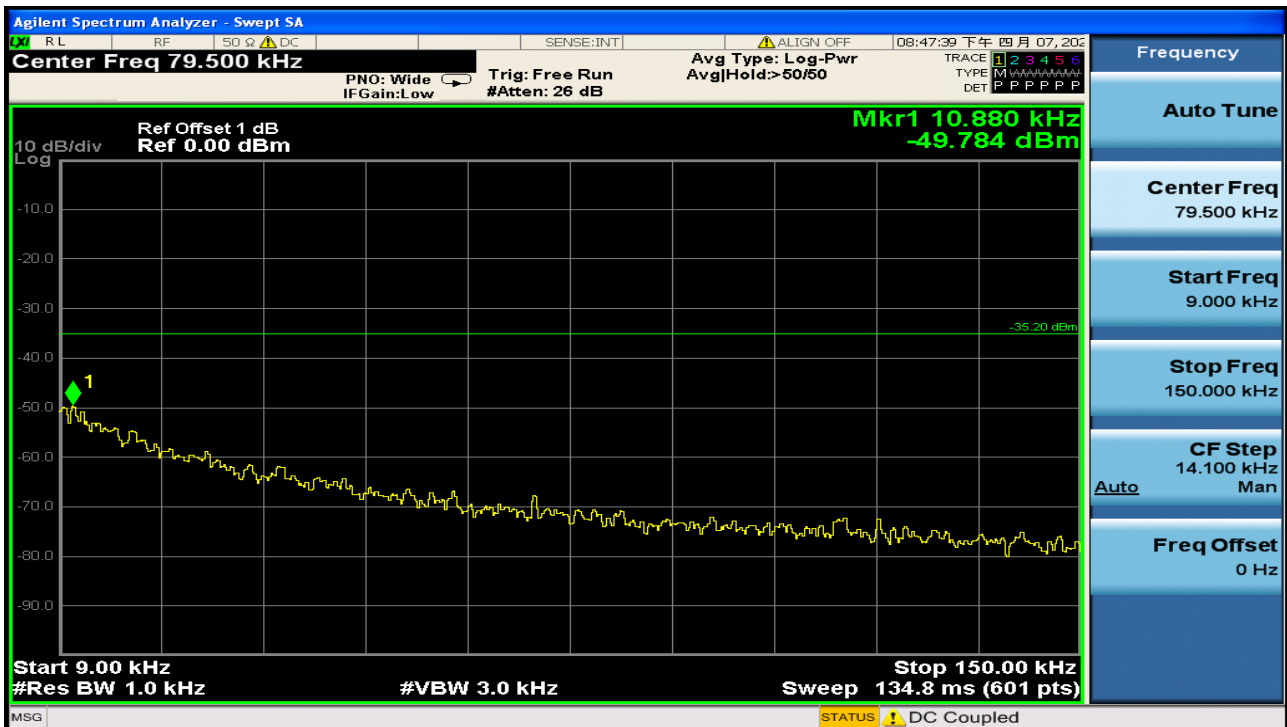


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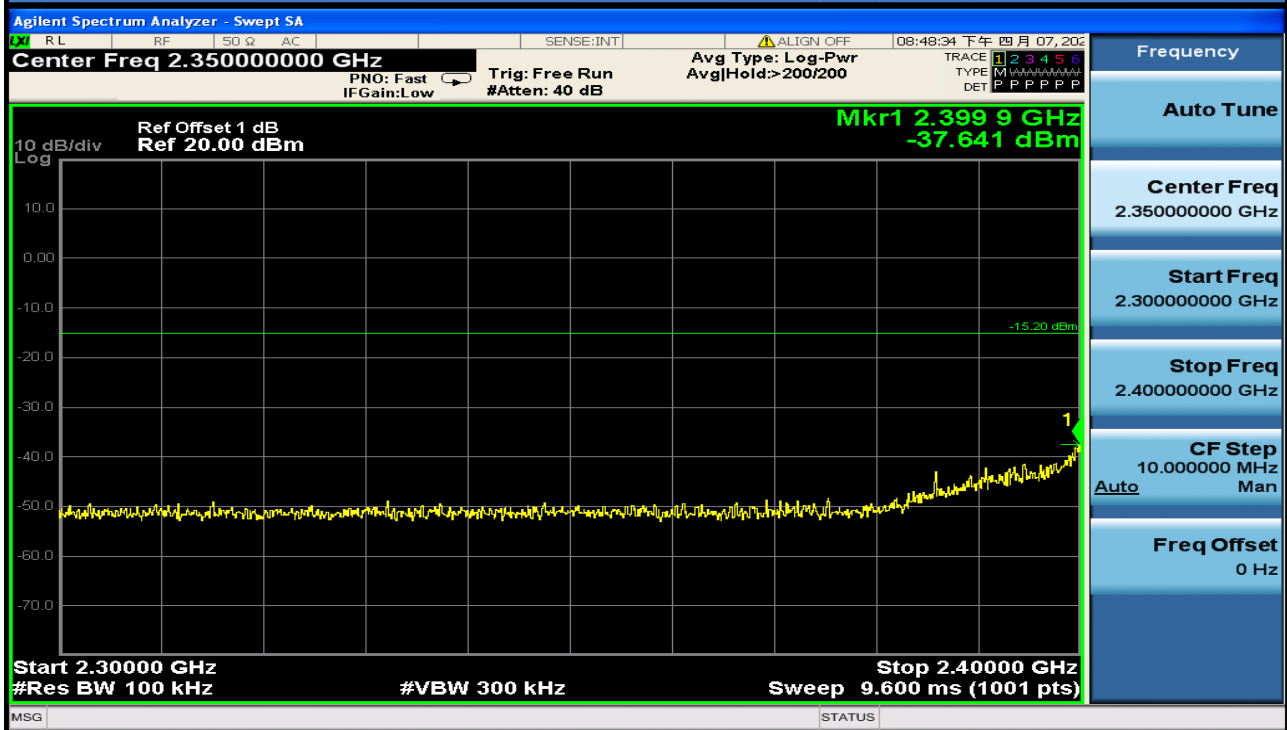
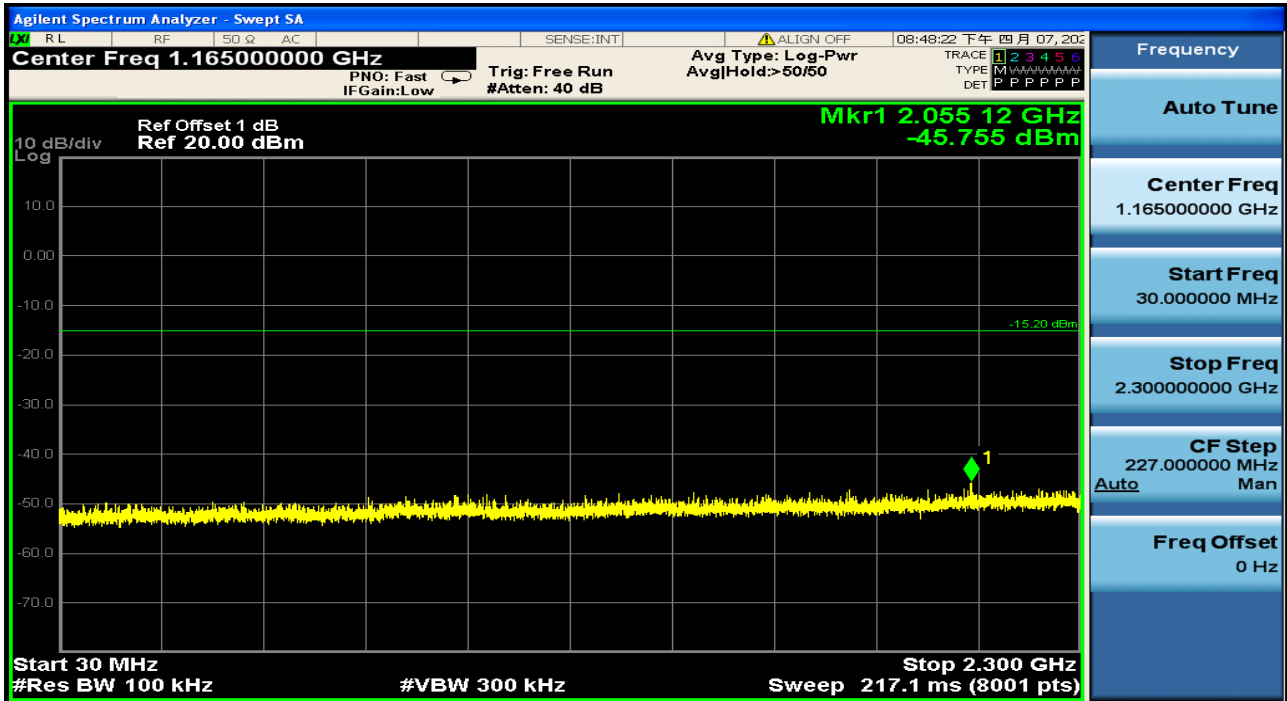
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