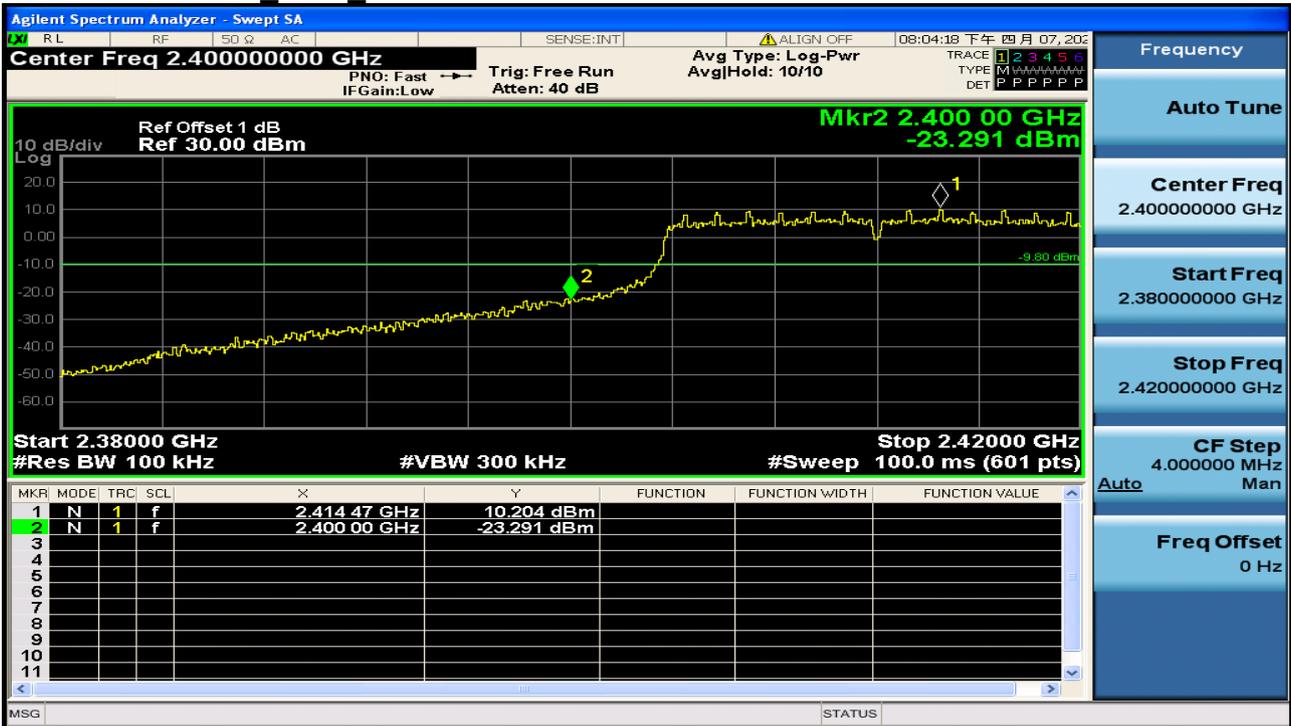


4.7 Band-edge for RF Conducted Emissions

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



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

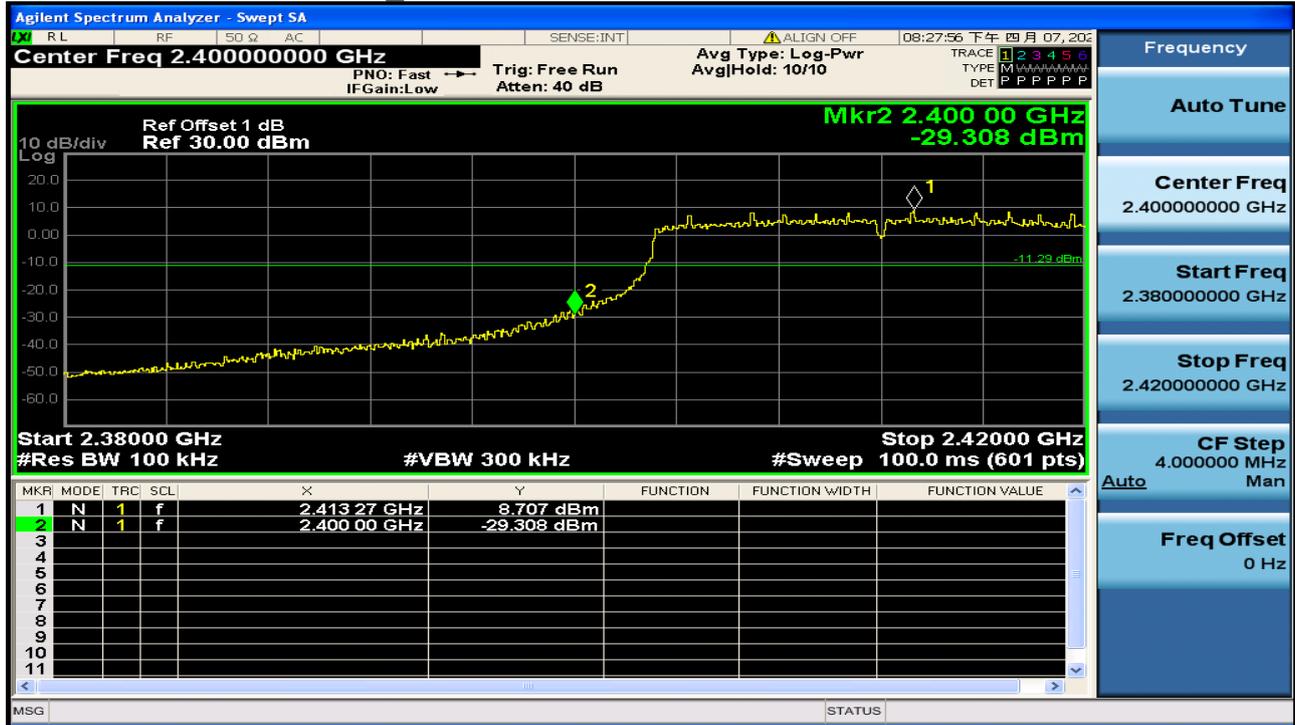


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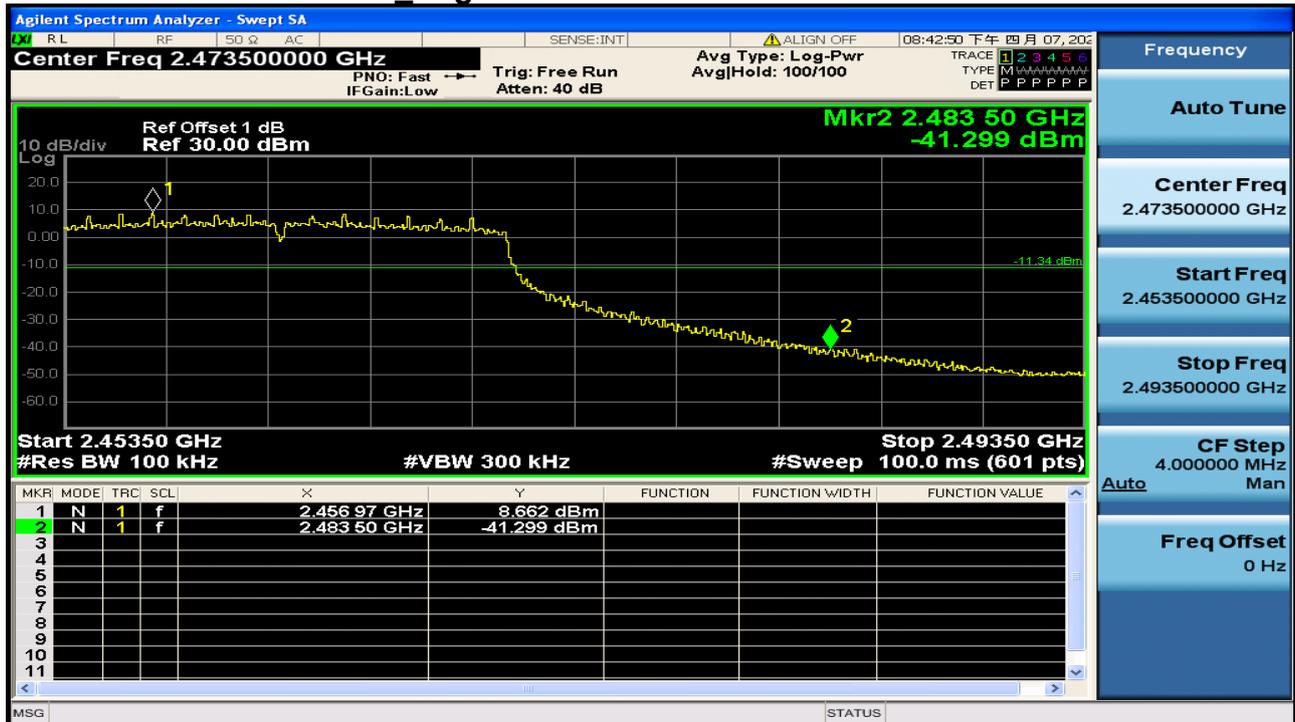
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4.7.1.1.3 802.11N20MIMO_Lowest Channel



4.7.1.1.4 802.11 N20MIMO_Highest Channel

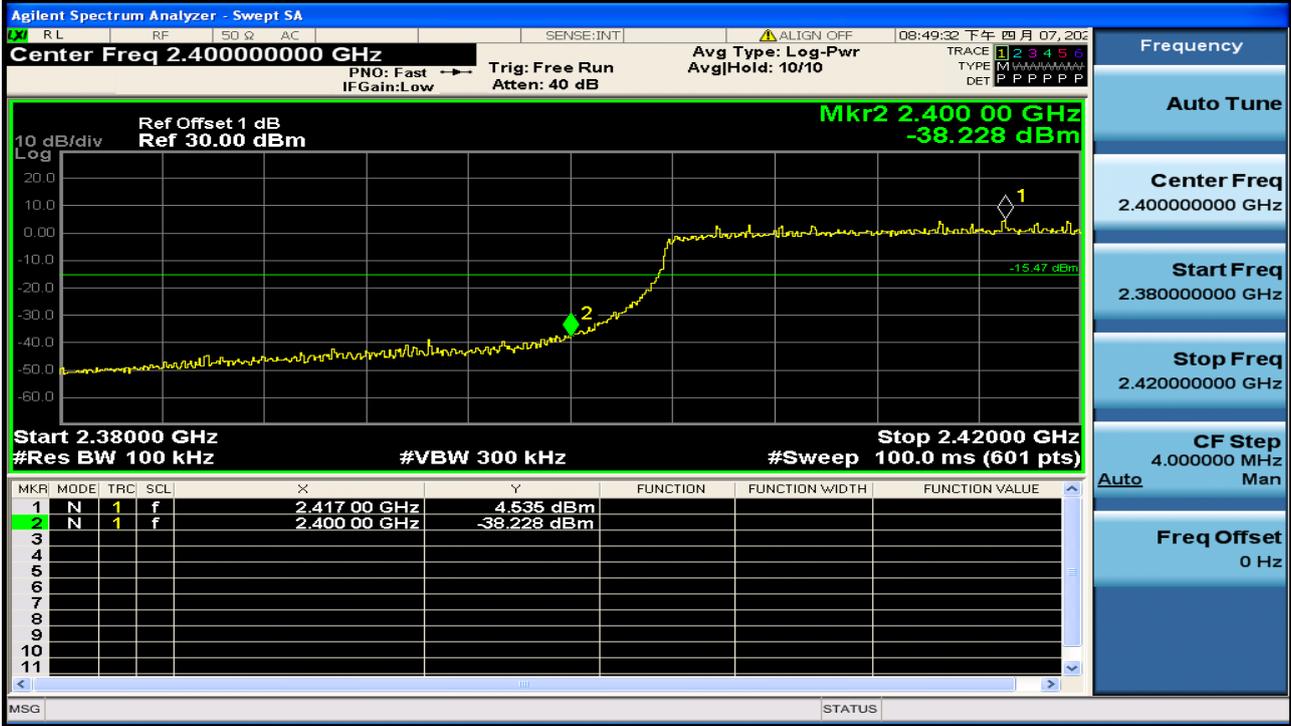


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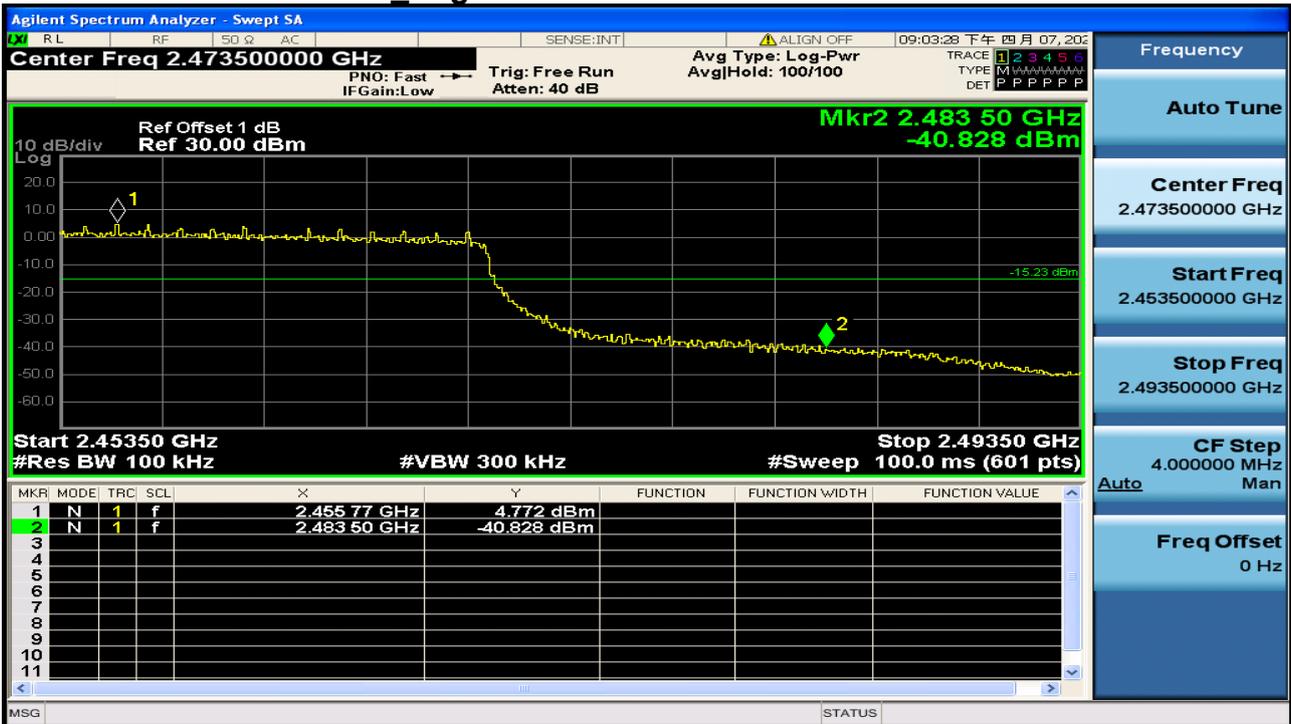
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4.7.1.1.5 802.11N40MIMO_Lowest Channel



4.7.1.1.6 802.11 N40MIMO_Highest Channel

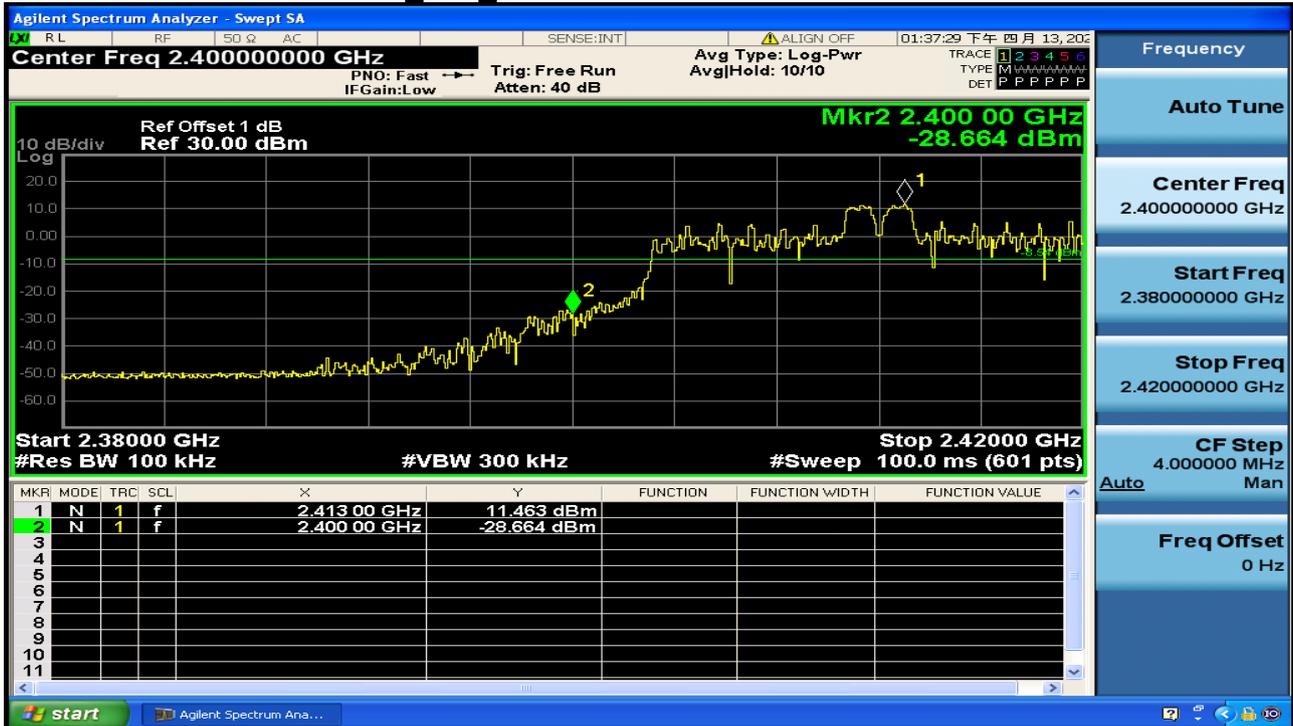


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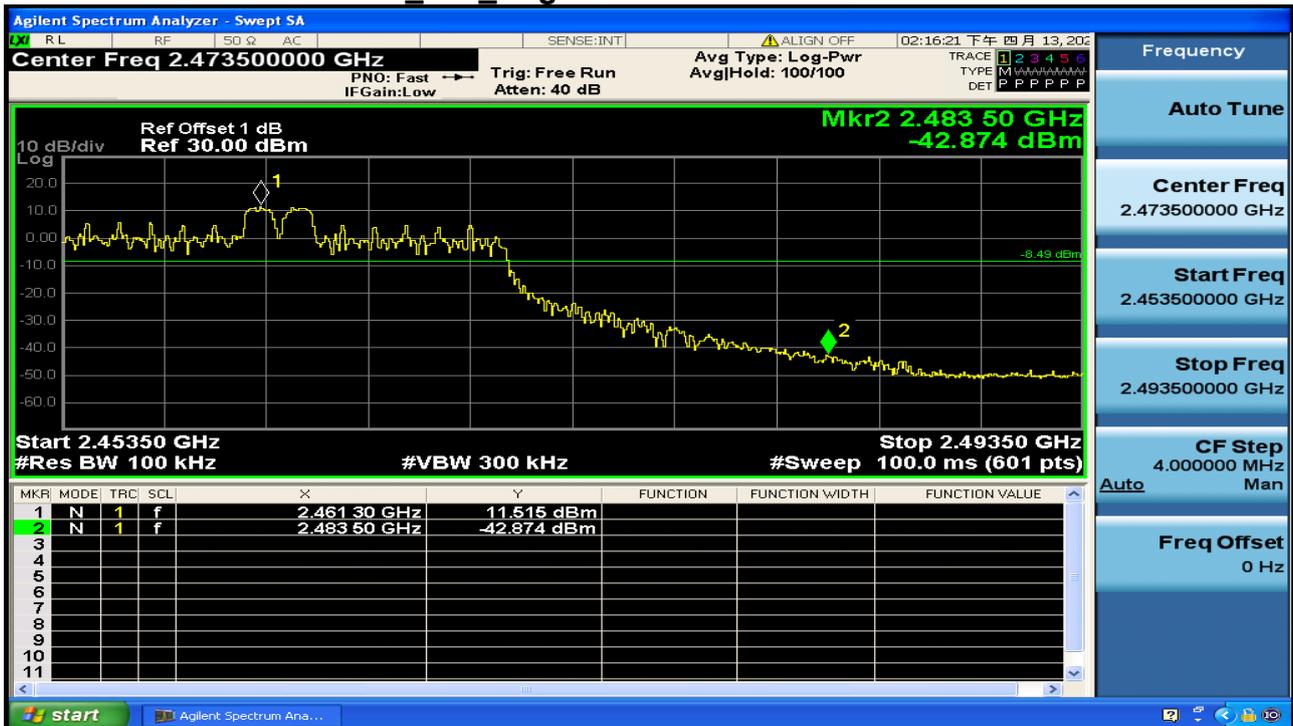
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4.7.1.1.7 802.11AX20MIMO_26T_Lowest Channel



4.7.1.1.8 802.11AX20MIMO_26T_Highest Channel



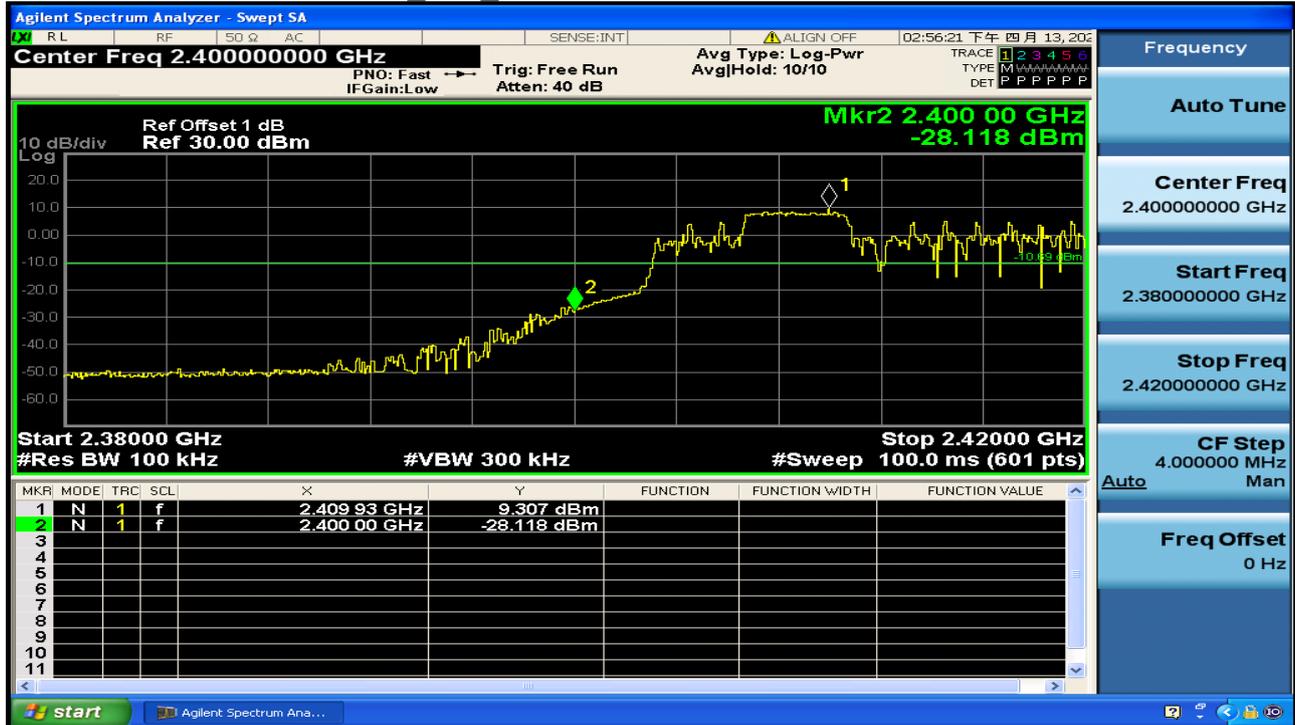
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Shenzhen Branch (SGS-CSTC) Laboratory

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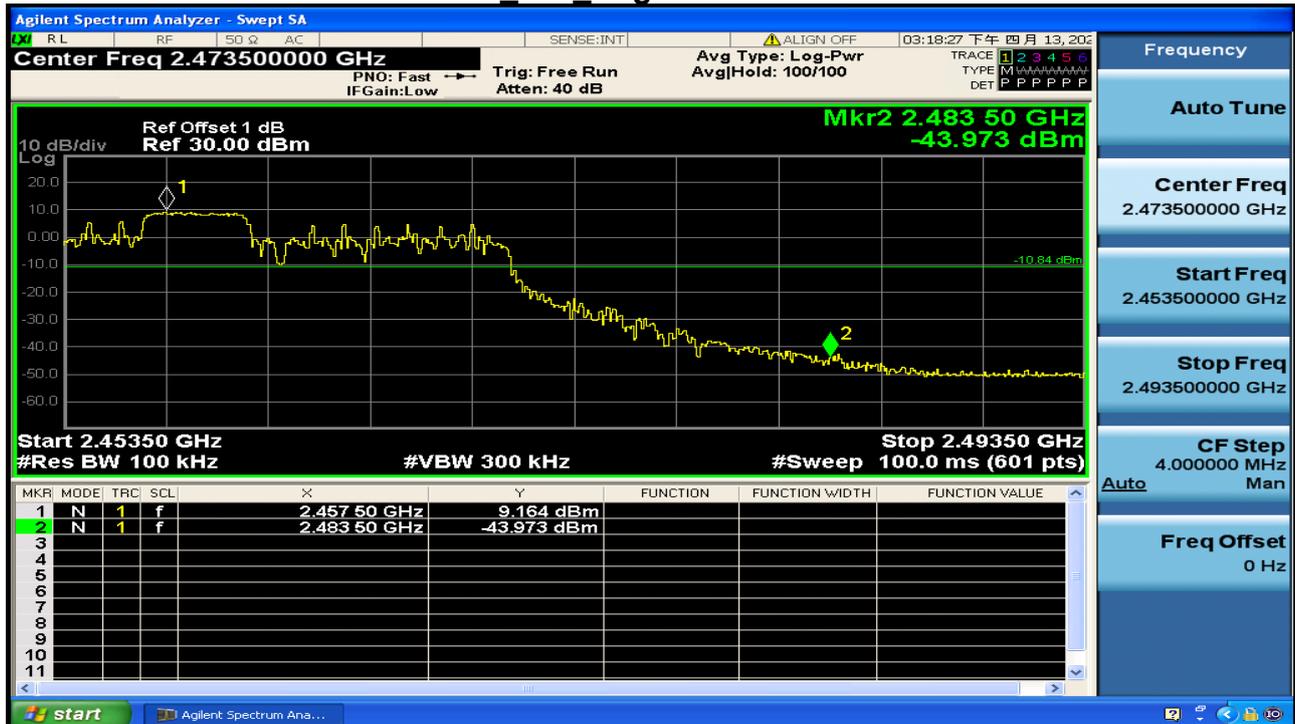
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4.7.1.1.9 802.11AX20MIMO_52T_Lowest Channel



4.7.1.1.10 802.11AX20MIMO_52T_Highest Channel

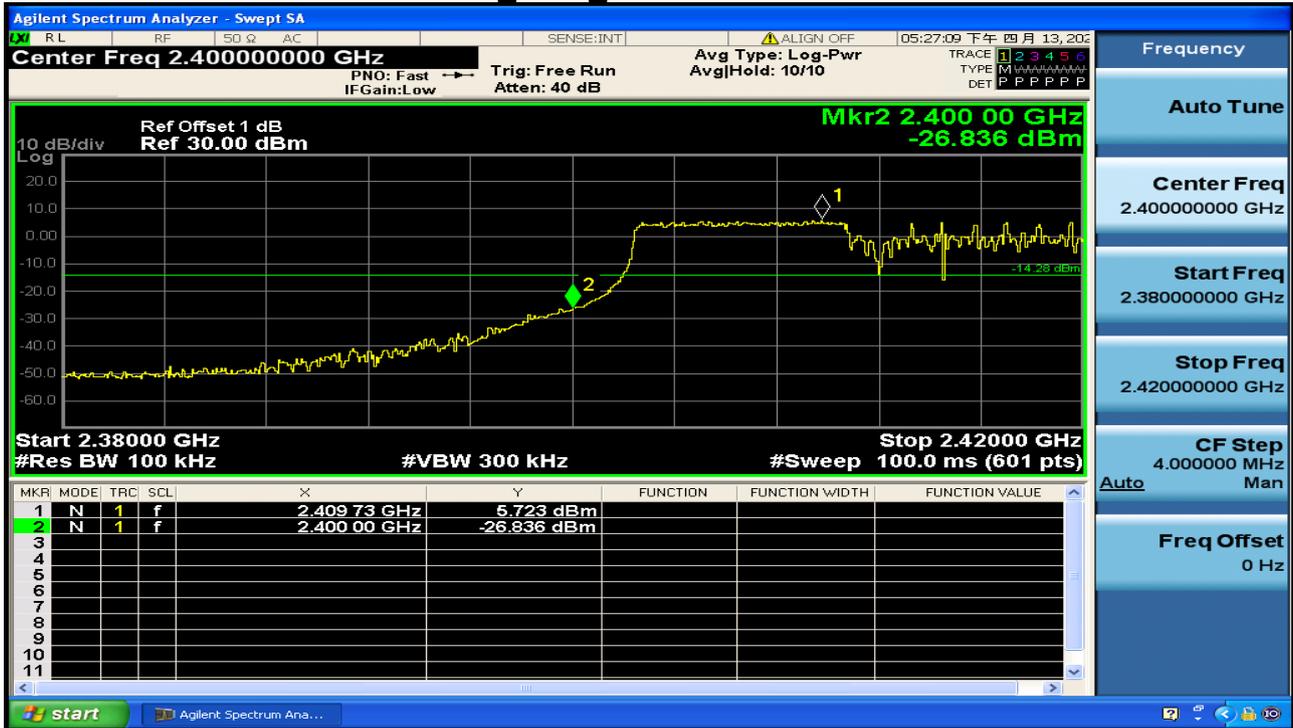


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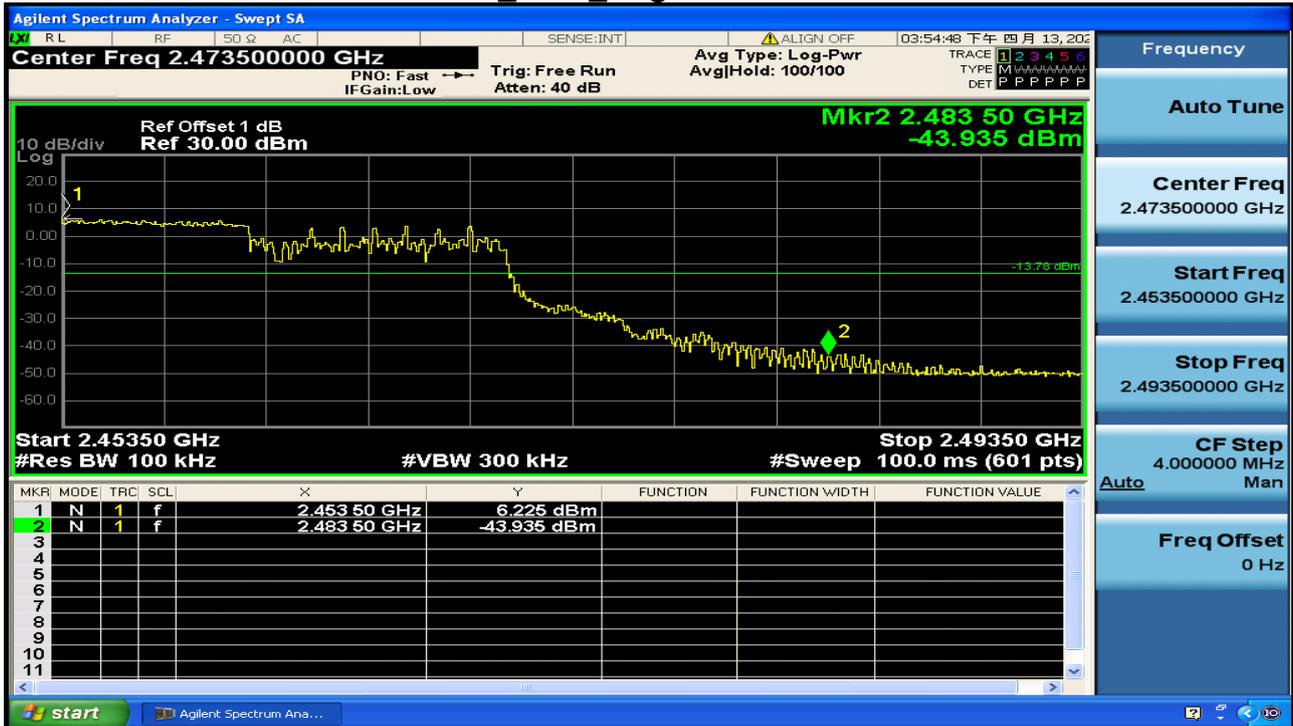
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4.7.1.1.11 802.11AX20MIMO_106T_Lowest Channel

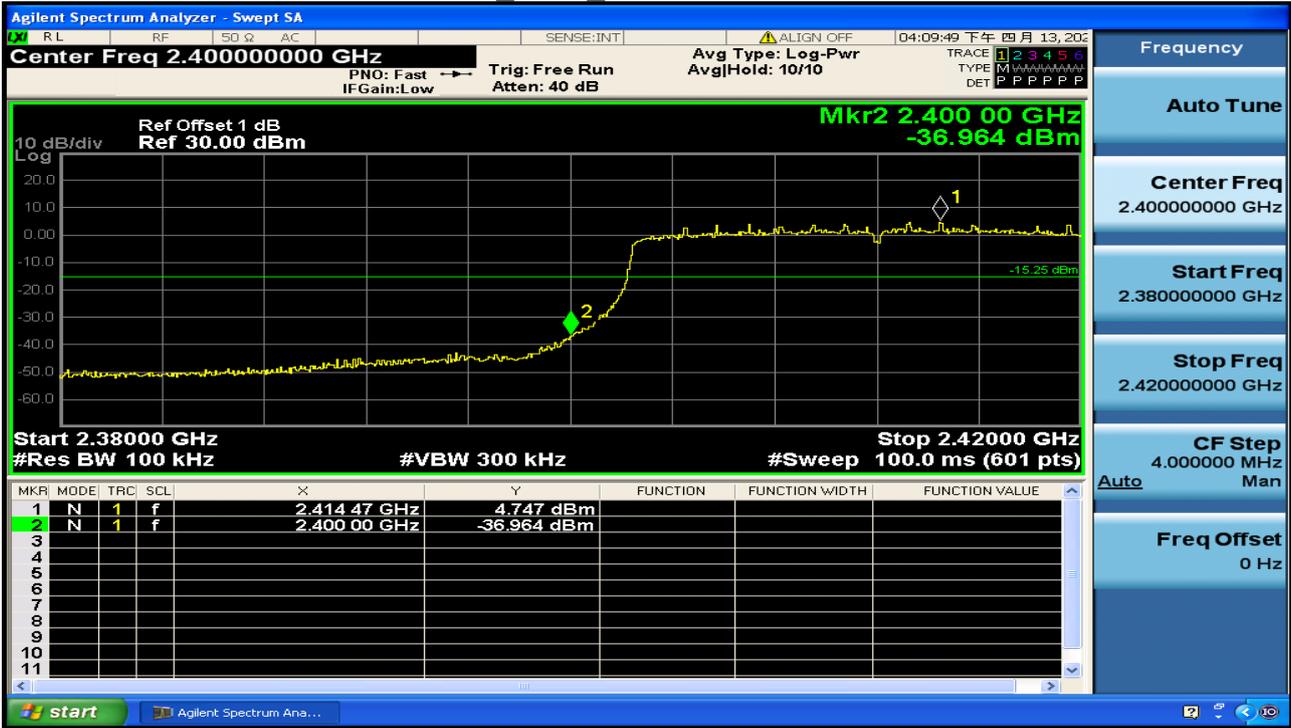


4.7.1.1.12 802.11AX20MIMO_106T_Highest Channel

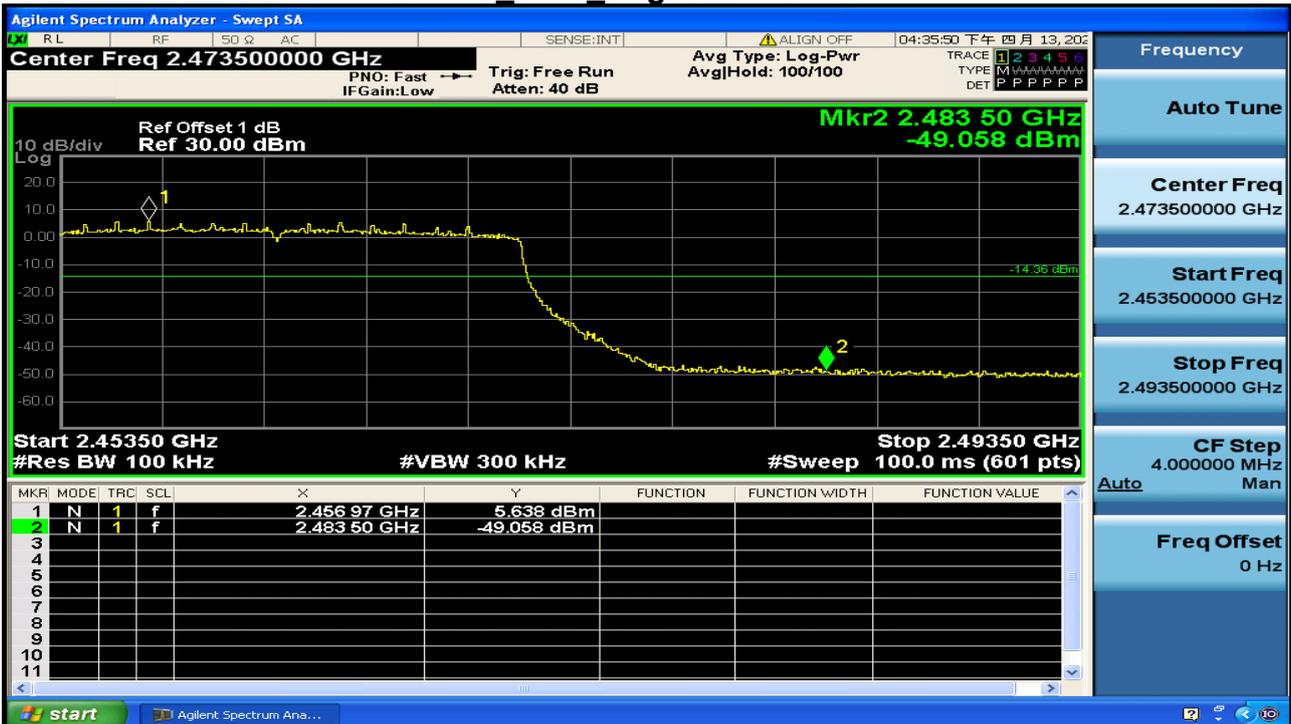




4.7.1.1.13 802.11AX20MIMO_242T_Lowest Channel



4.7.1.1.14 802.11AX20MIMO_242T_Highest Channel

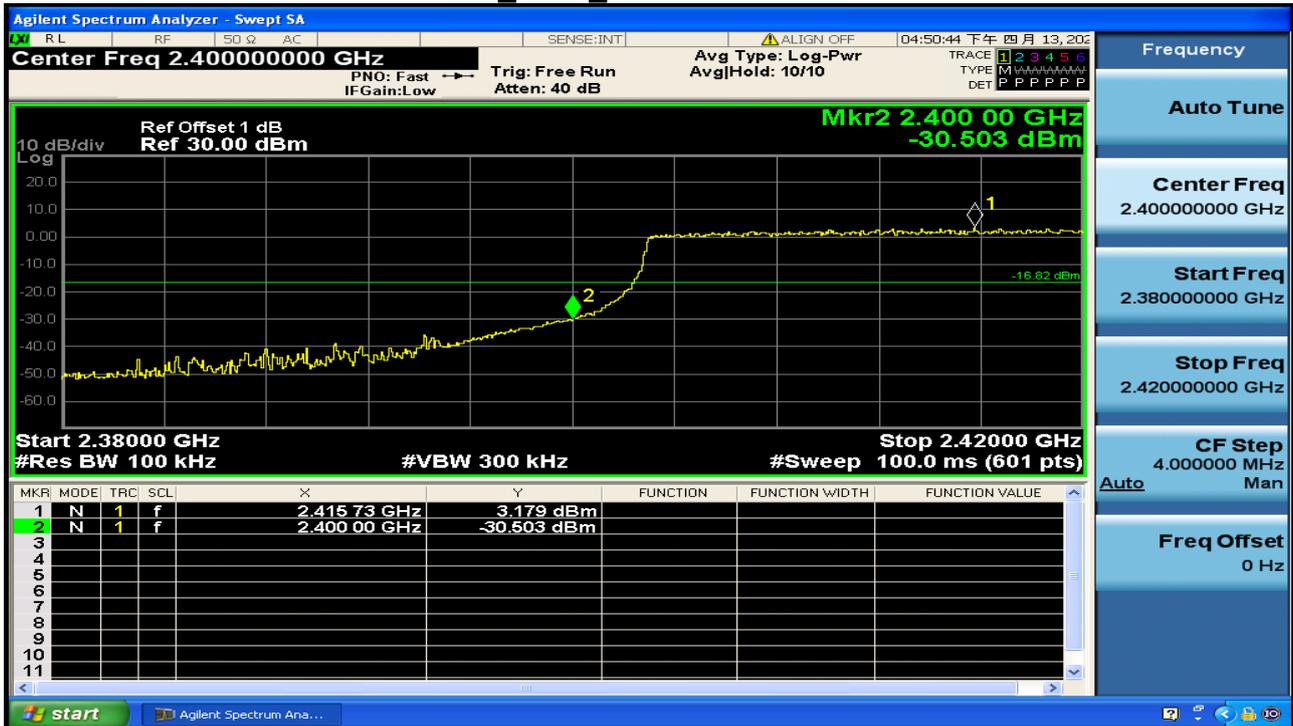


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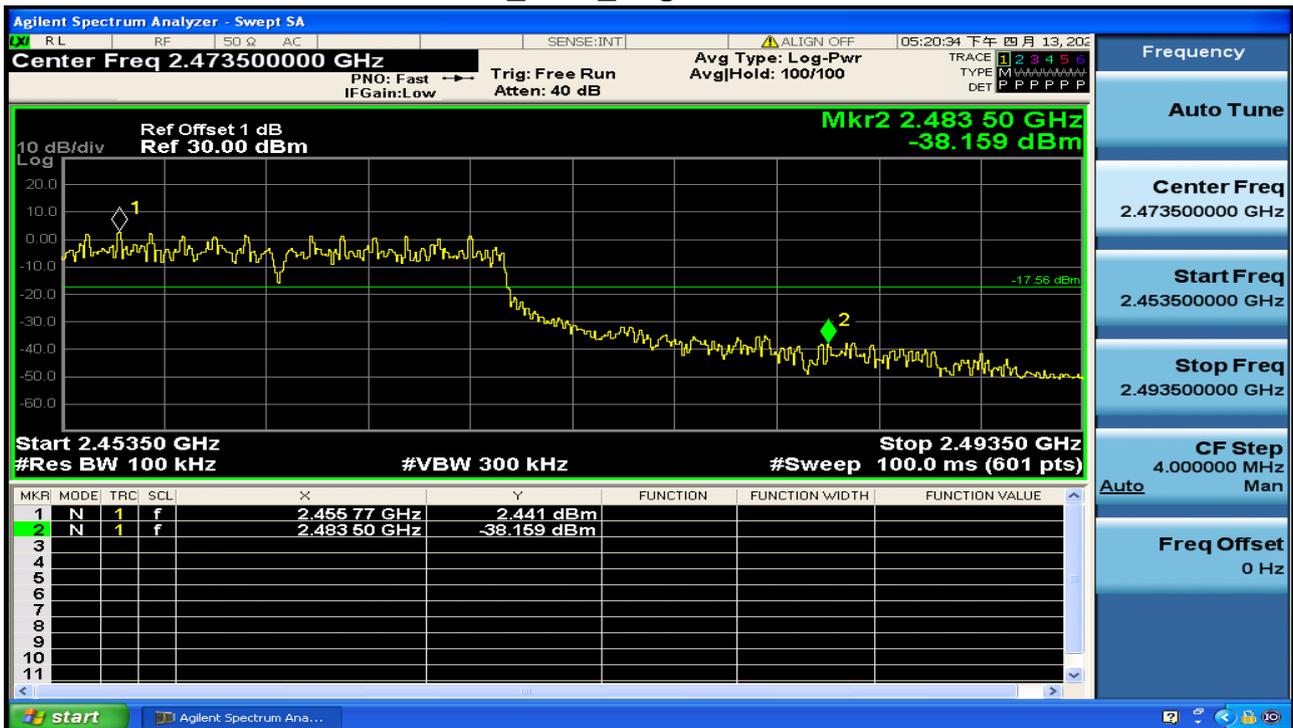
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4.7.1.1.15 802.11AX40MIMO_242T_Lowest Channel



4.7.1.1.16 802.11 AX40MIMO_242T_Highest Channel

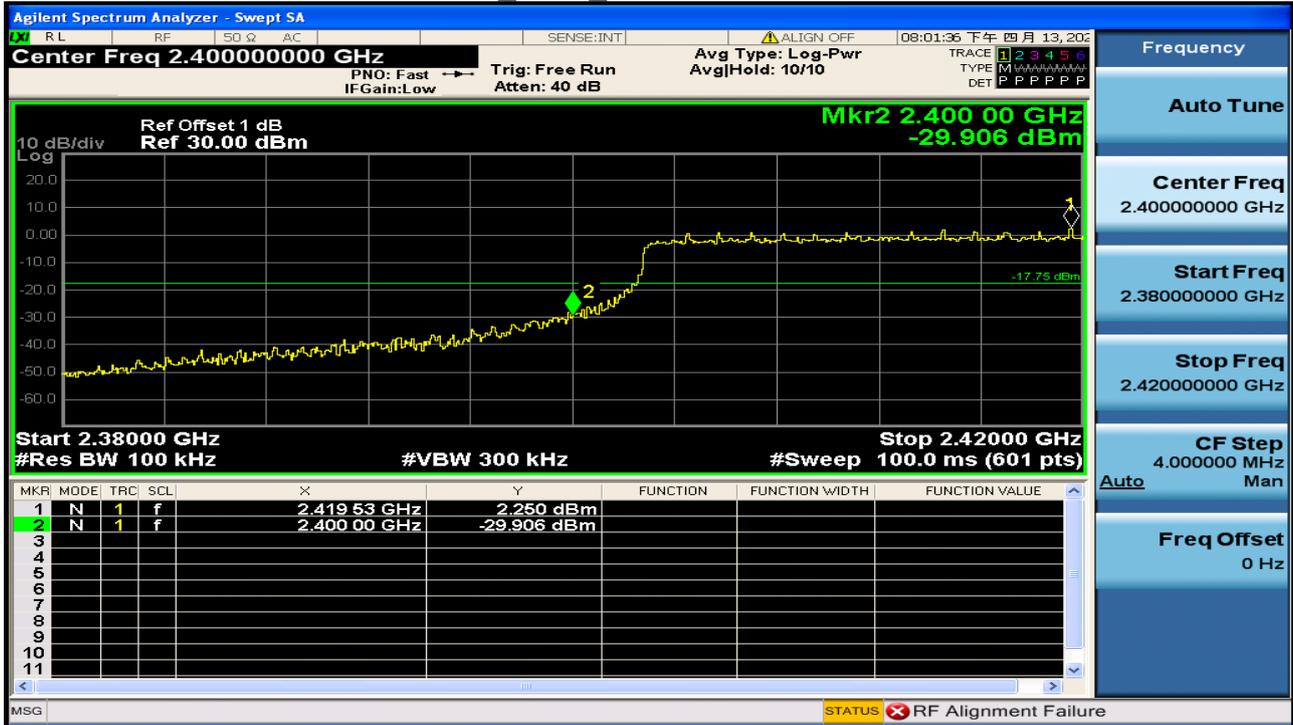


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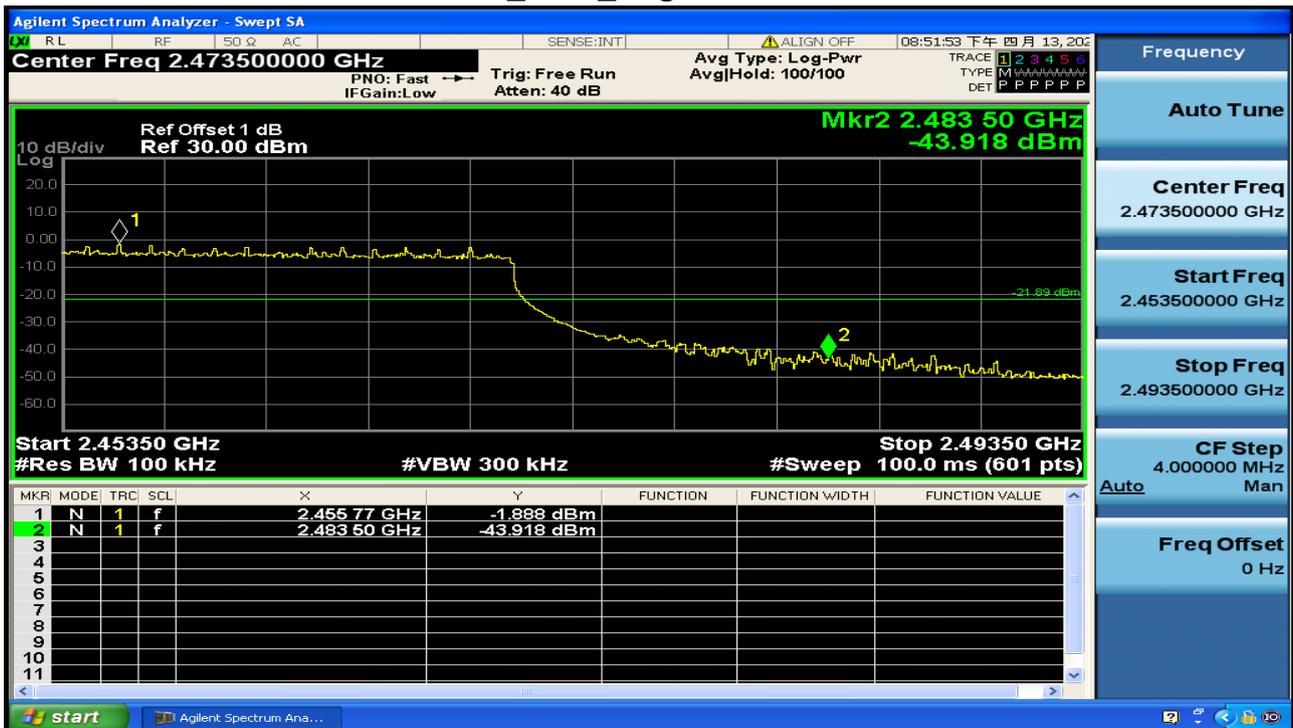
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4.7.1.1.17 802.11AX40MIMO_484T_Lowest Channel



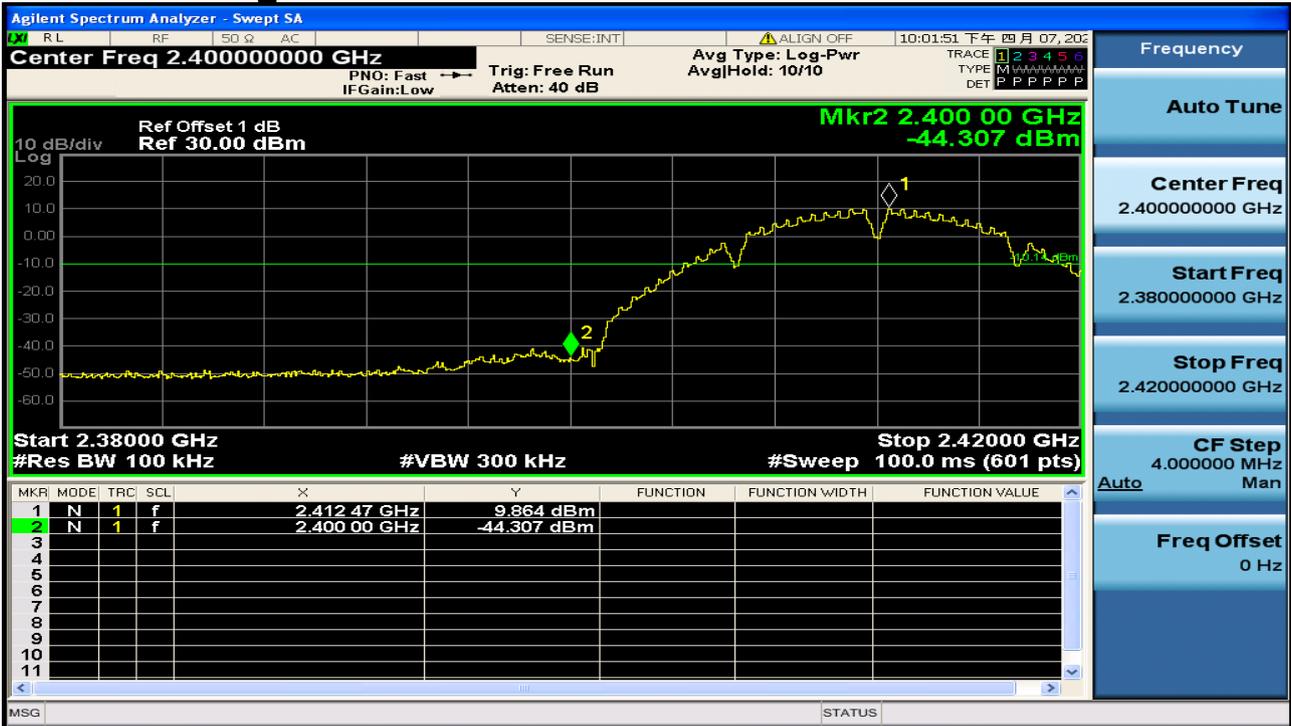
4.7.1.1.18 802.11 AX40MIMO_484T_Highest Channel



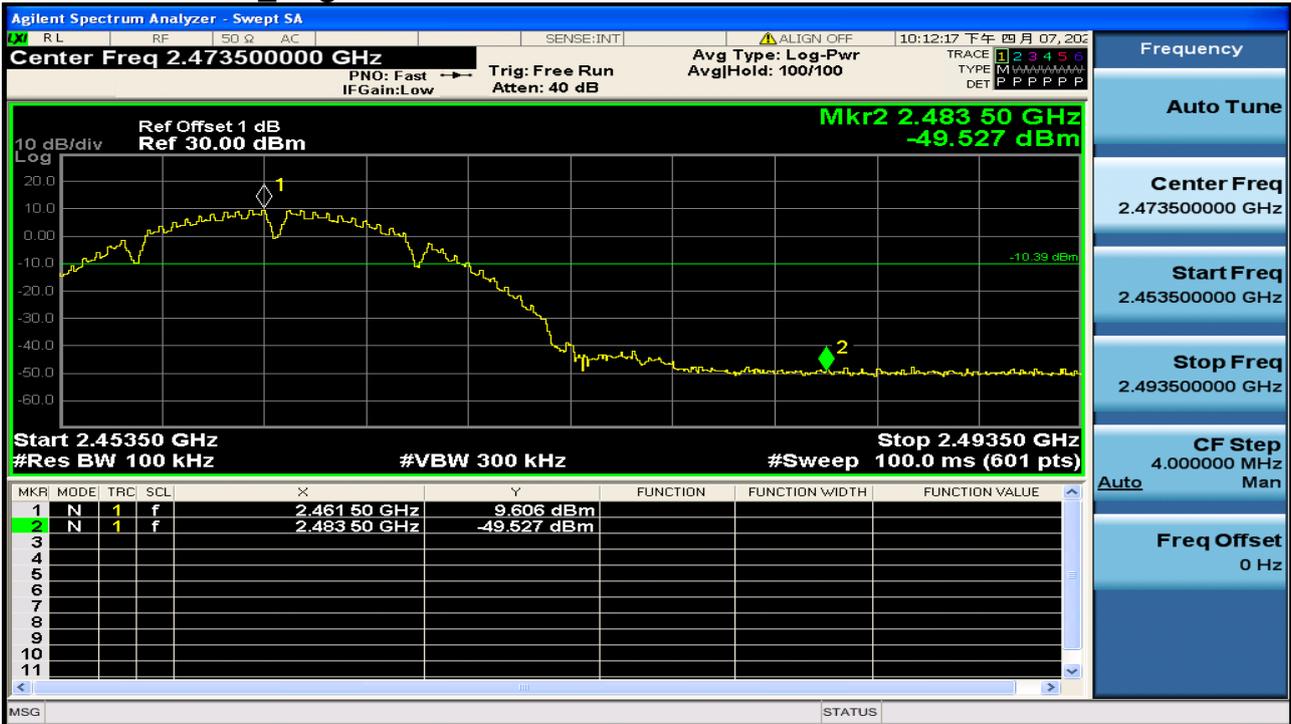
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4.7.1.2 CDD & MIMO_ANT2
4.7.1.2.1 802.11B Lowest Channel



4.7.1.2.2 802.11B_Highest Channel

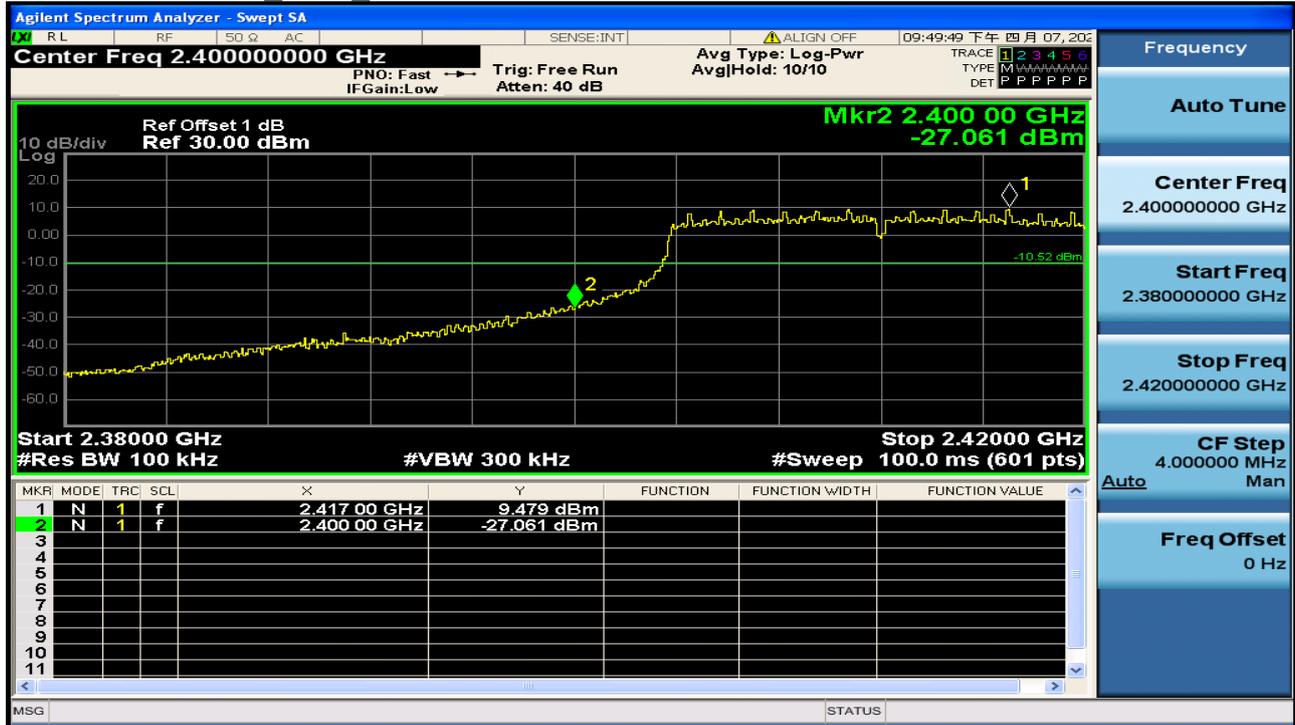


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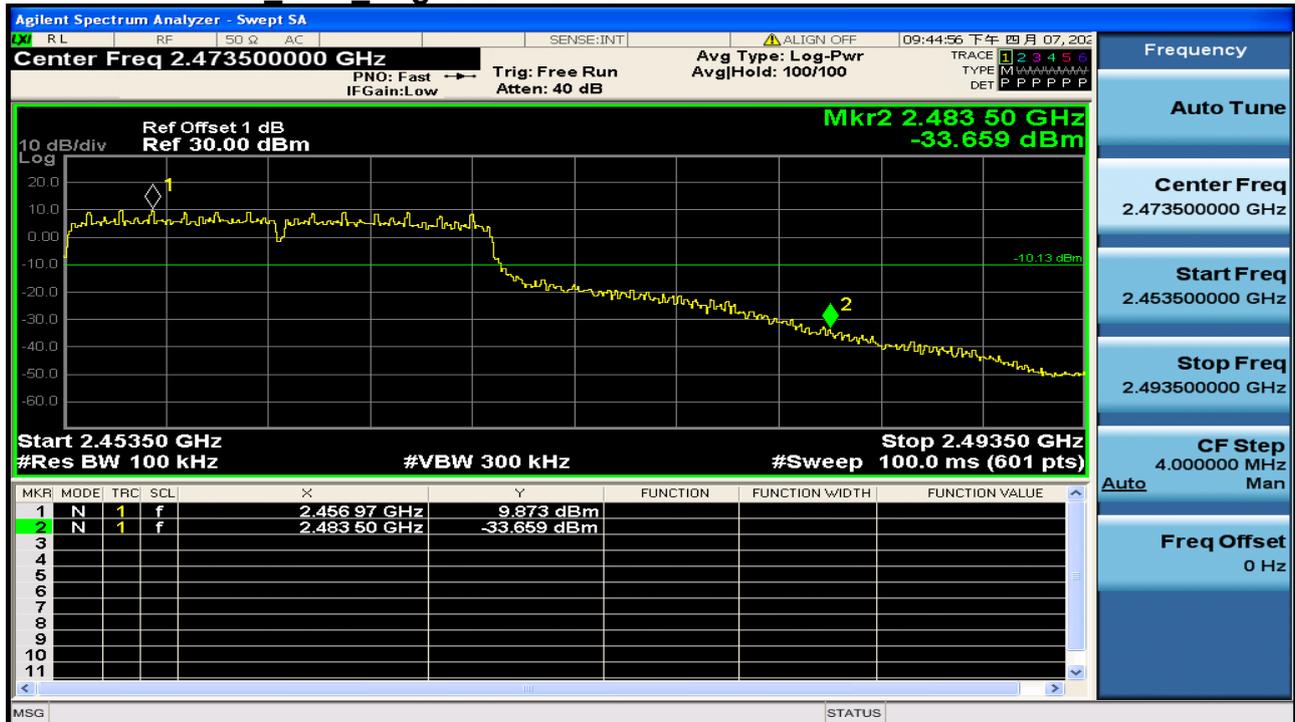
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4.7.1.2.3 802.11G_CDD_Lowest Channel



4.7.1.2.4 802.11G_CDD_Highest Channel

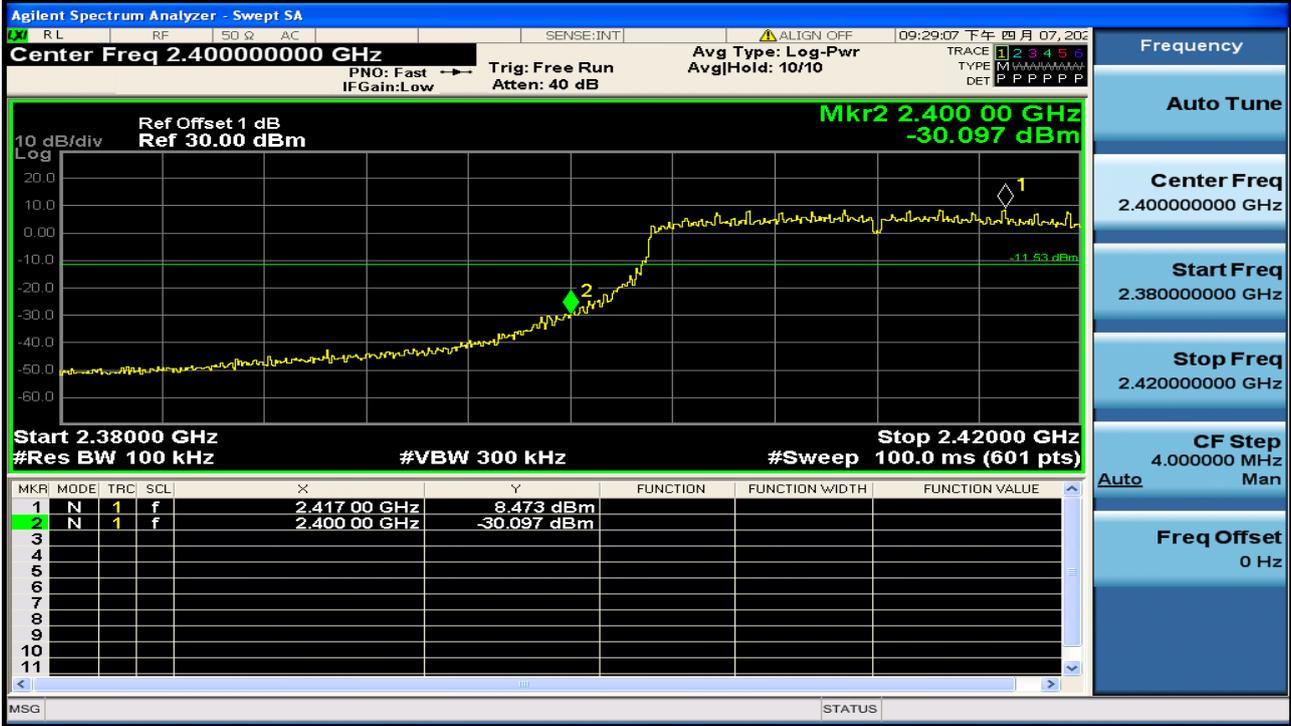


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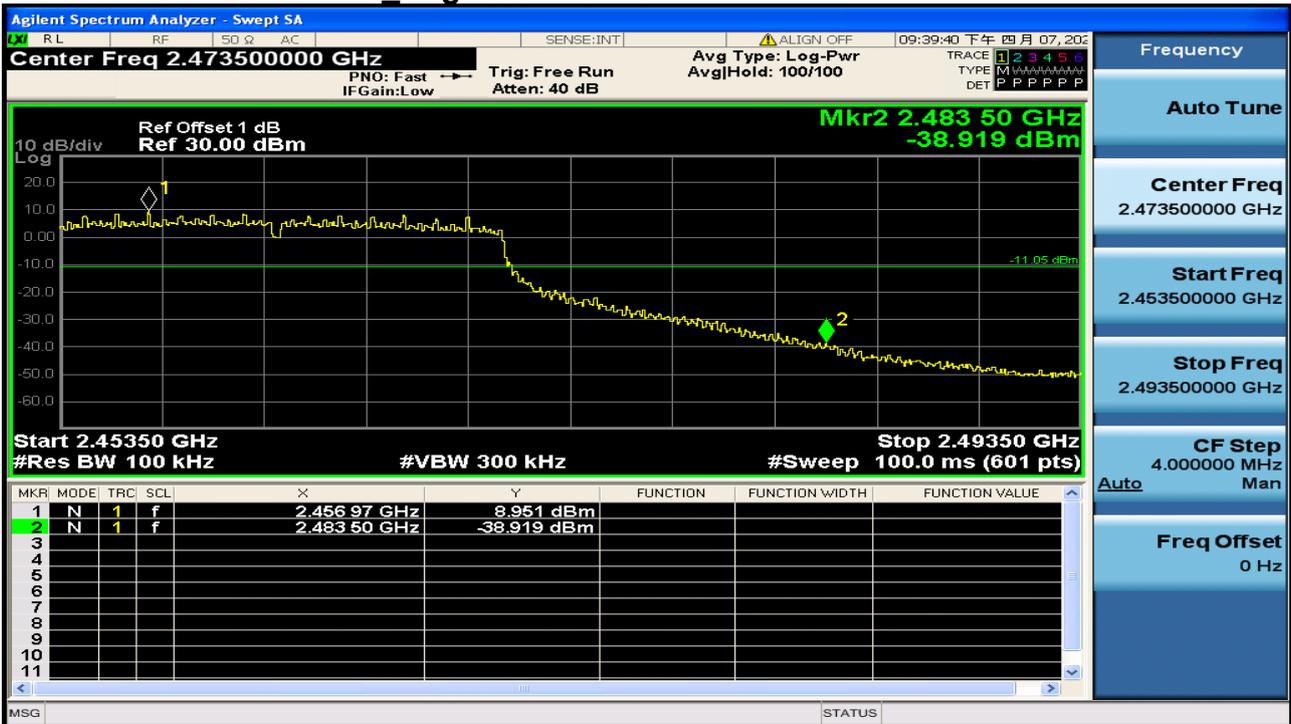
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4.7.1.2.5 802.11N20MIMO_Lowest Channel



4.7.1.2.6 802.11N20MIMO_Highest Channel

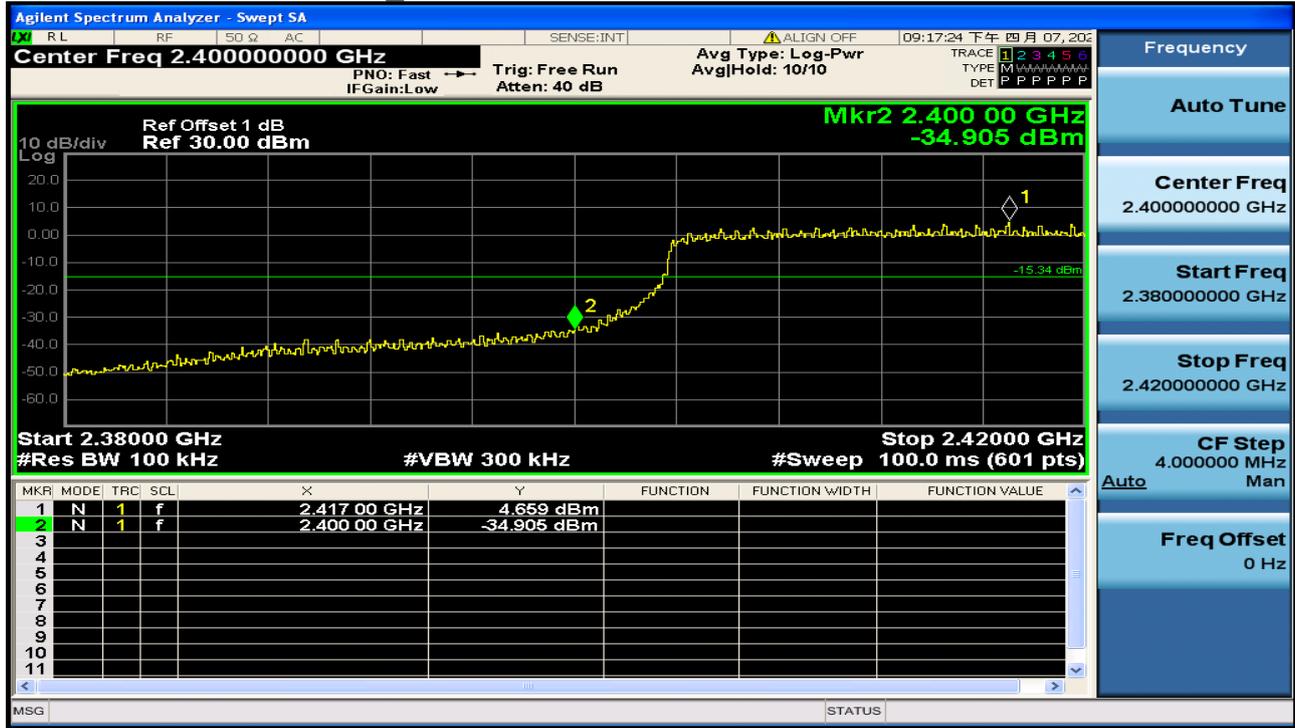


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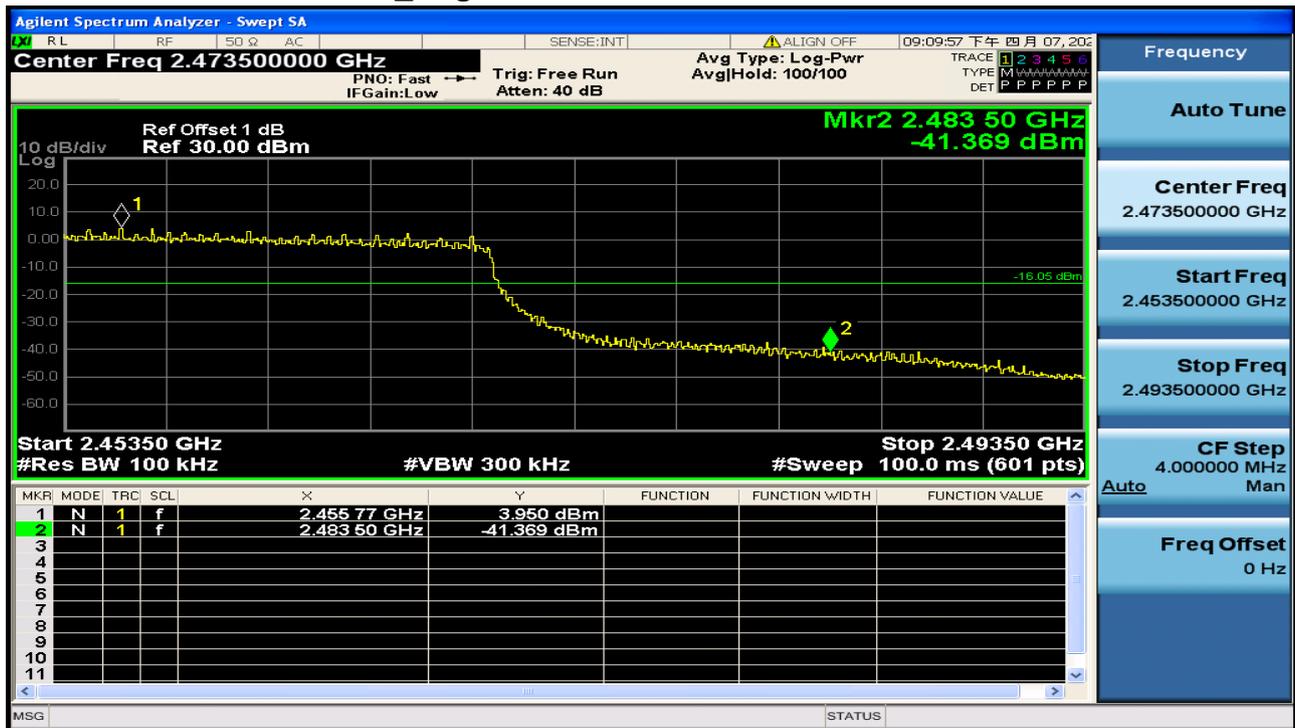
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4.7.1.2.7 802.11N40MIMO_Lowest Channel



4.7.1.2.8 802.11 N40MIMO_Highest Channel

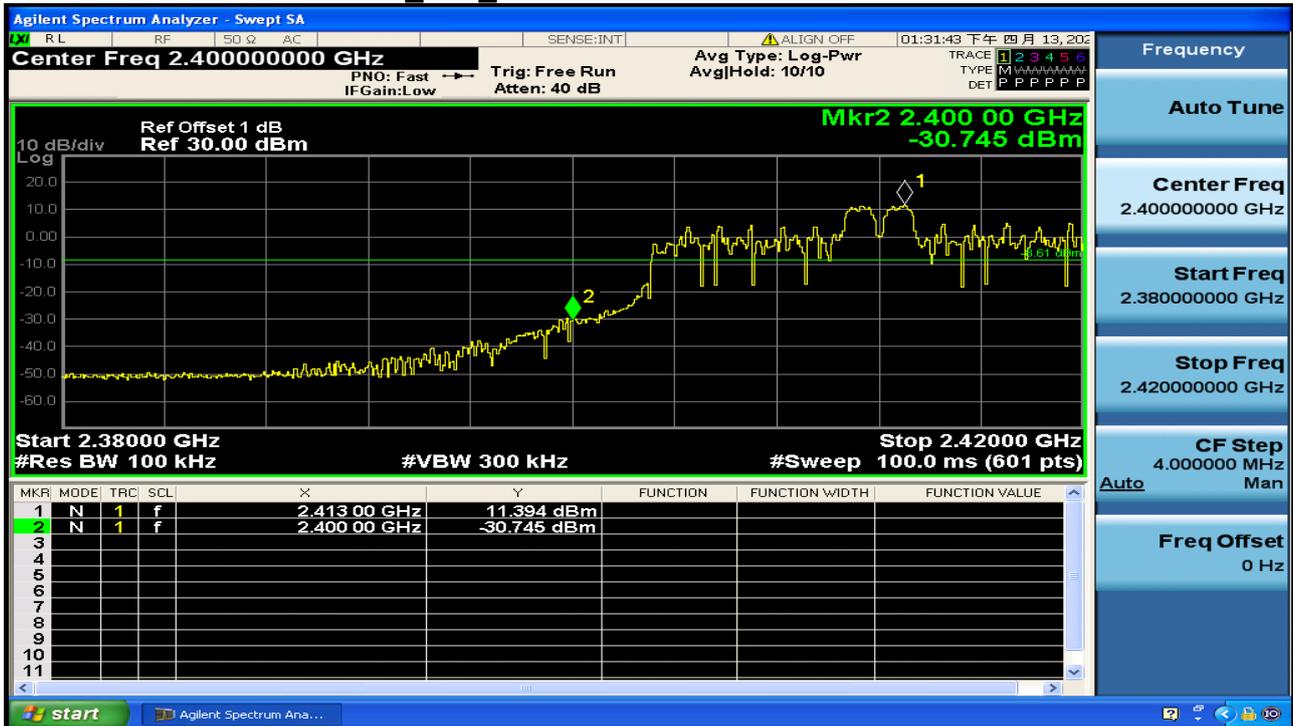


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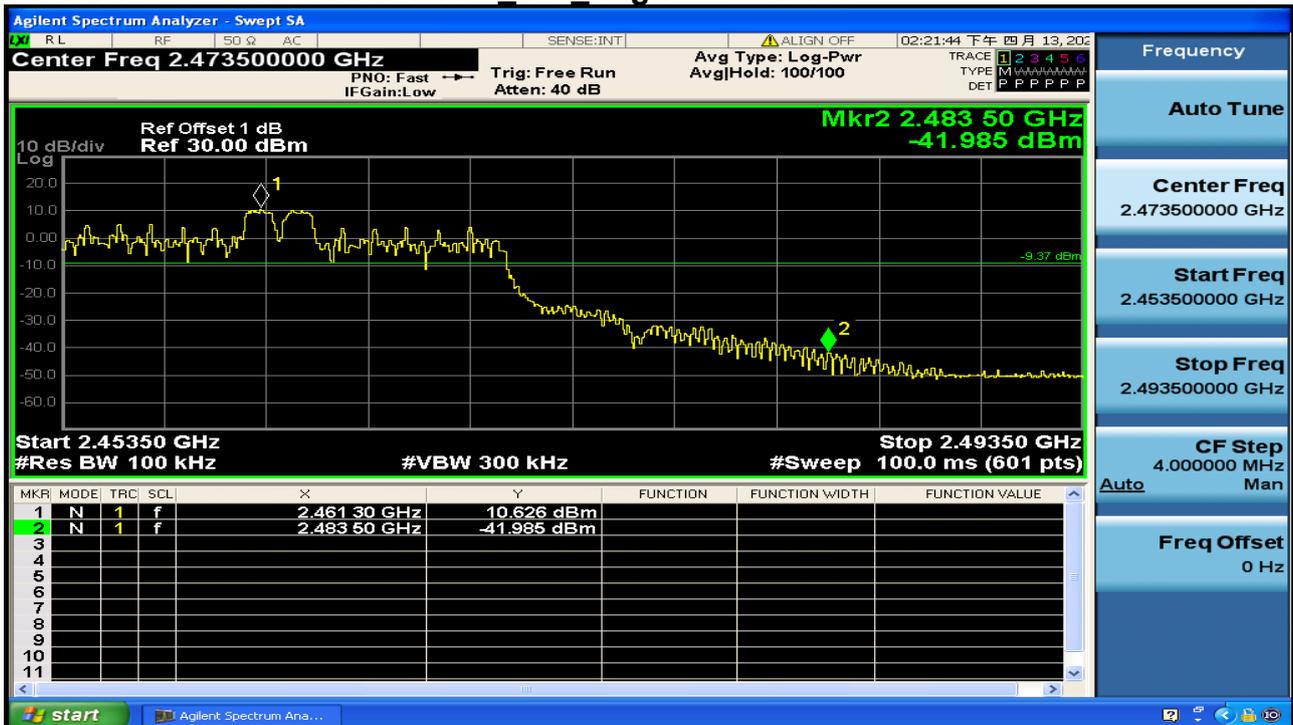
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4.7.1.2.9 802.11AX20MIMO_26T_Lowest Channel

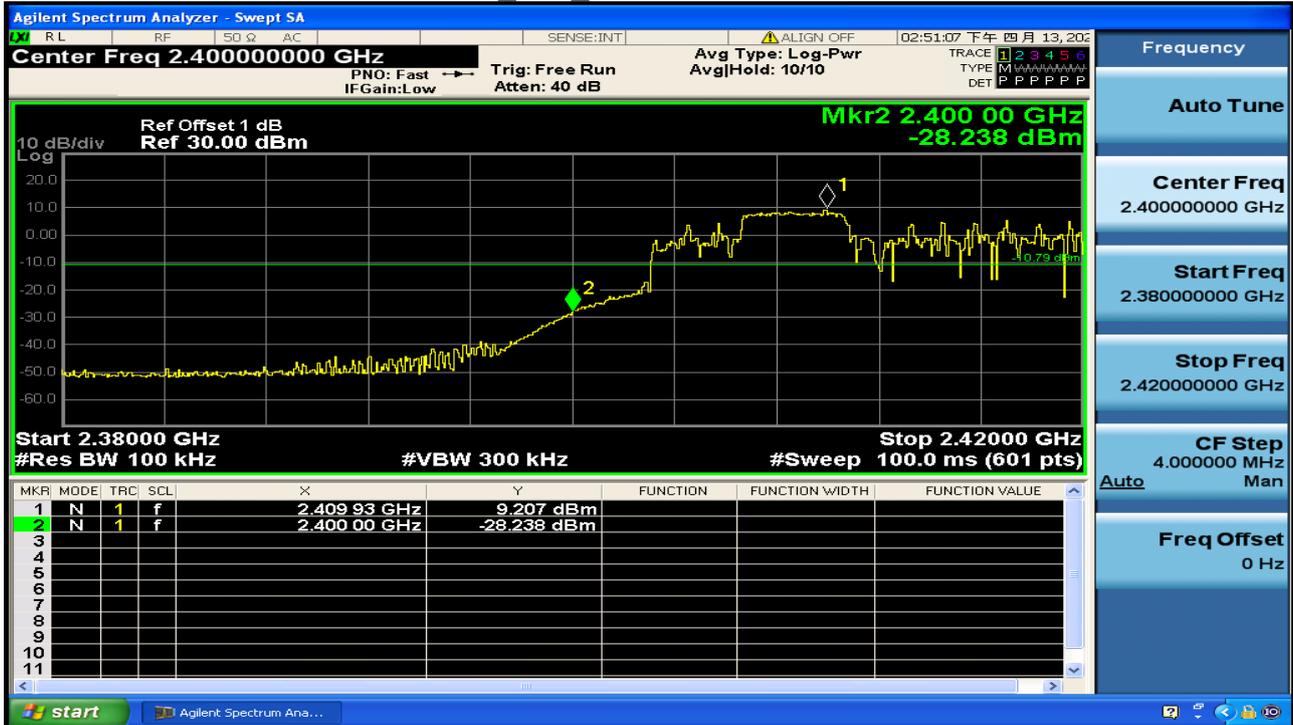


4.7.1.2.10 802.11AX20MIMO_26T_Highest Channel

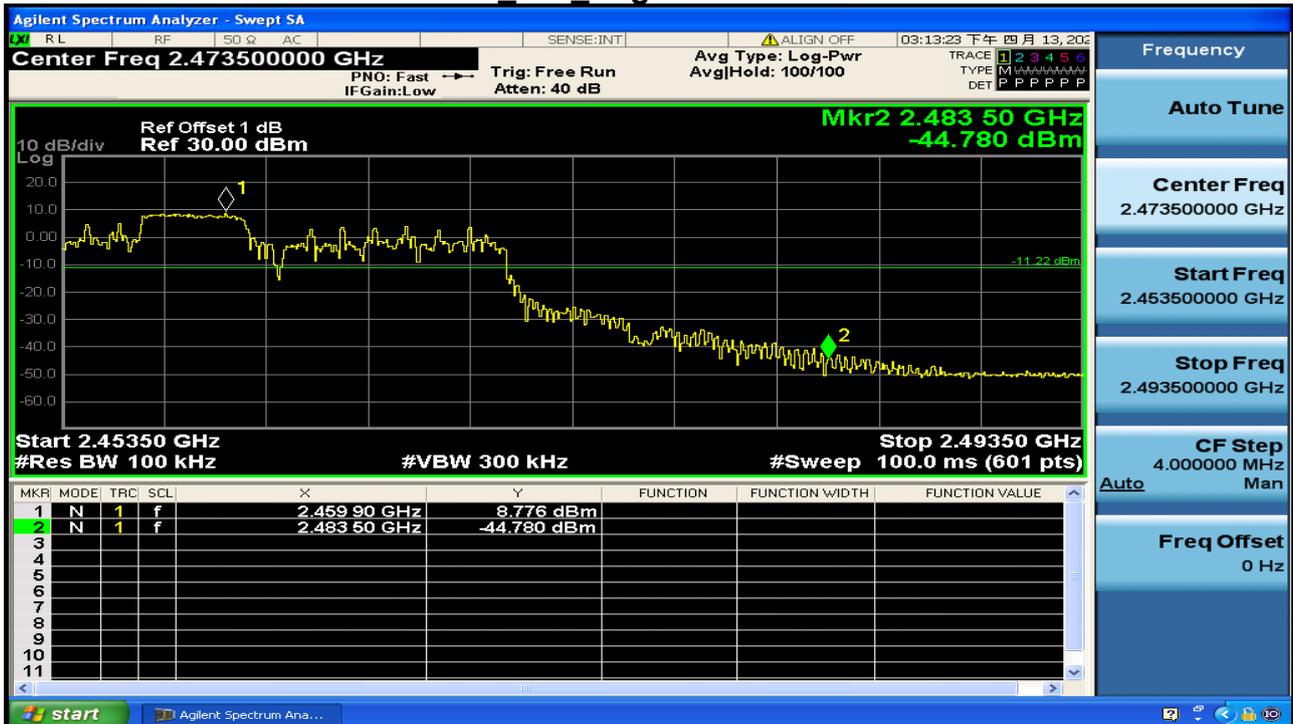




4.7.1.2.11 802.11AX20MIMO_52T_Lowest Channel



4.7.1.2.12 802.11AX20MIMO_52T_Highest Channel

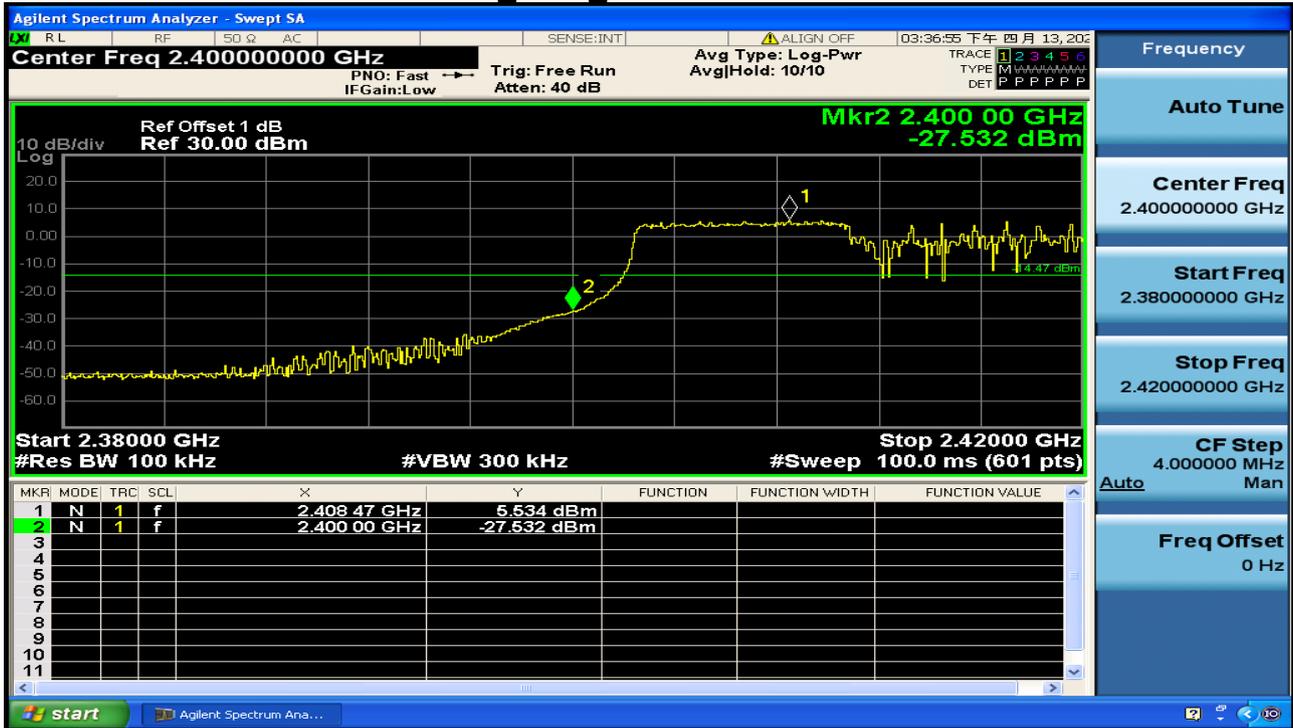


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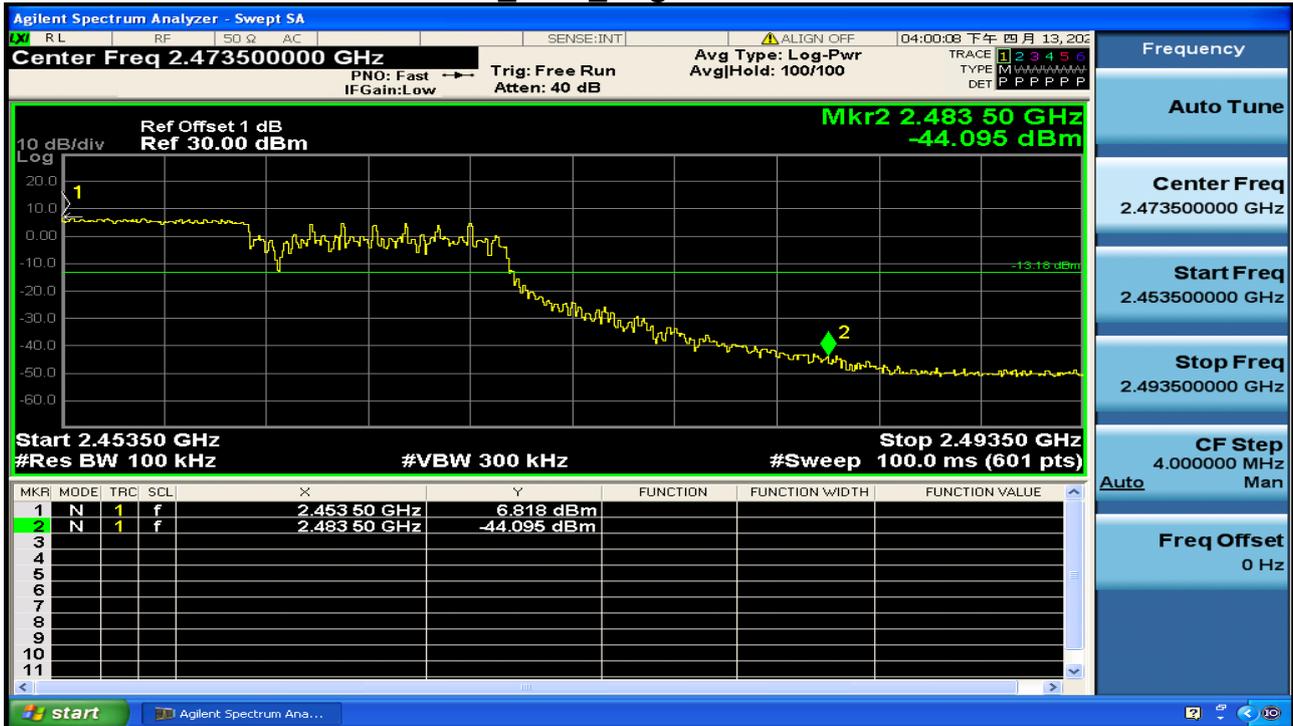
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4.7.1.2.13 802.11AX20MIMO_106T_Lowest Channel



4.7.1.2.14 802.11AX20MIMO_106T_Highest Channel

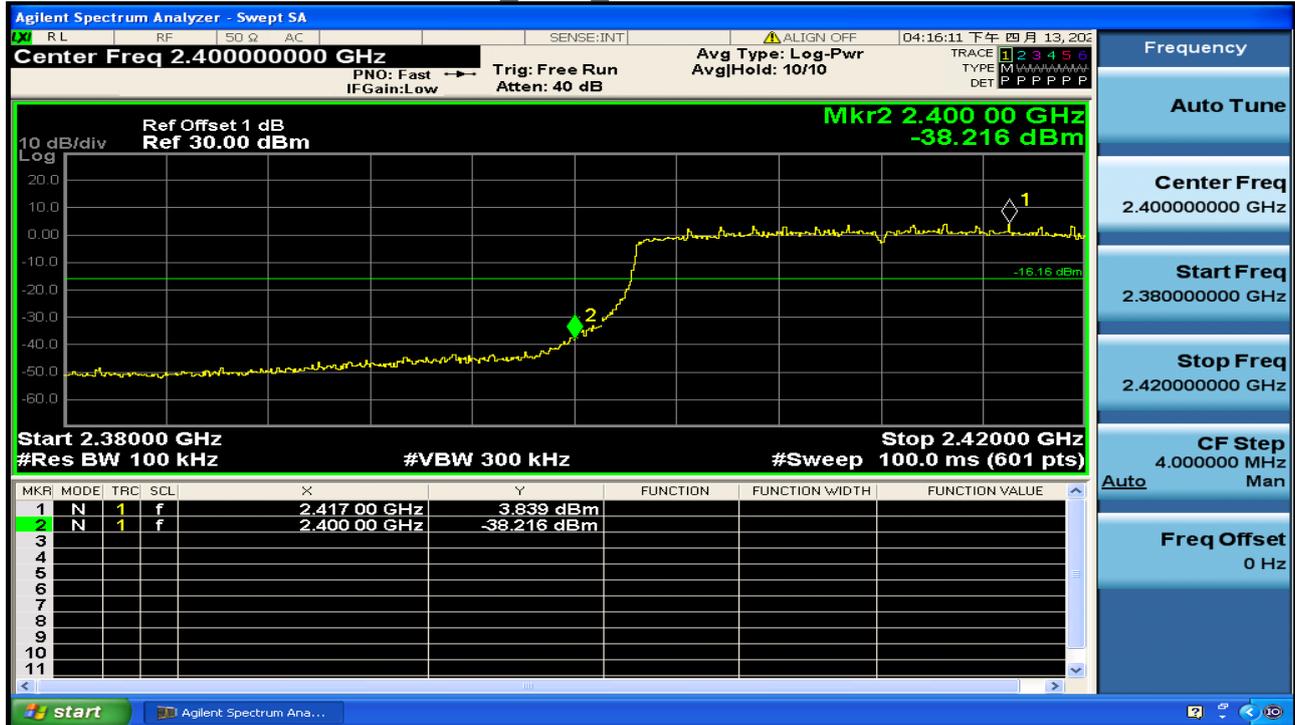


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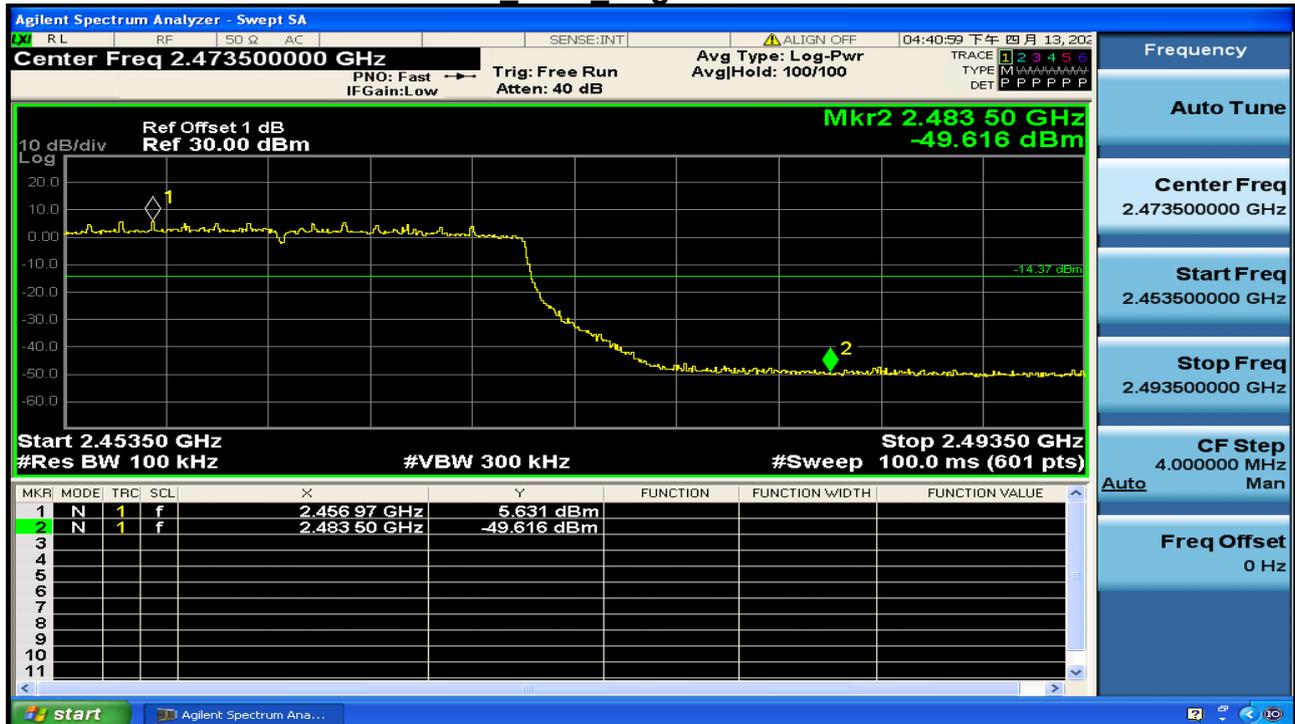
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4.7.1.2.15 802.11AX20MIMO_242T_Lowest Channel



4.7.1.2.16 802.11AX20MIMO_242T_Highest Channel

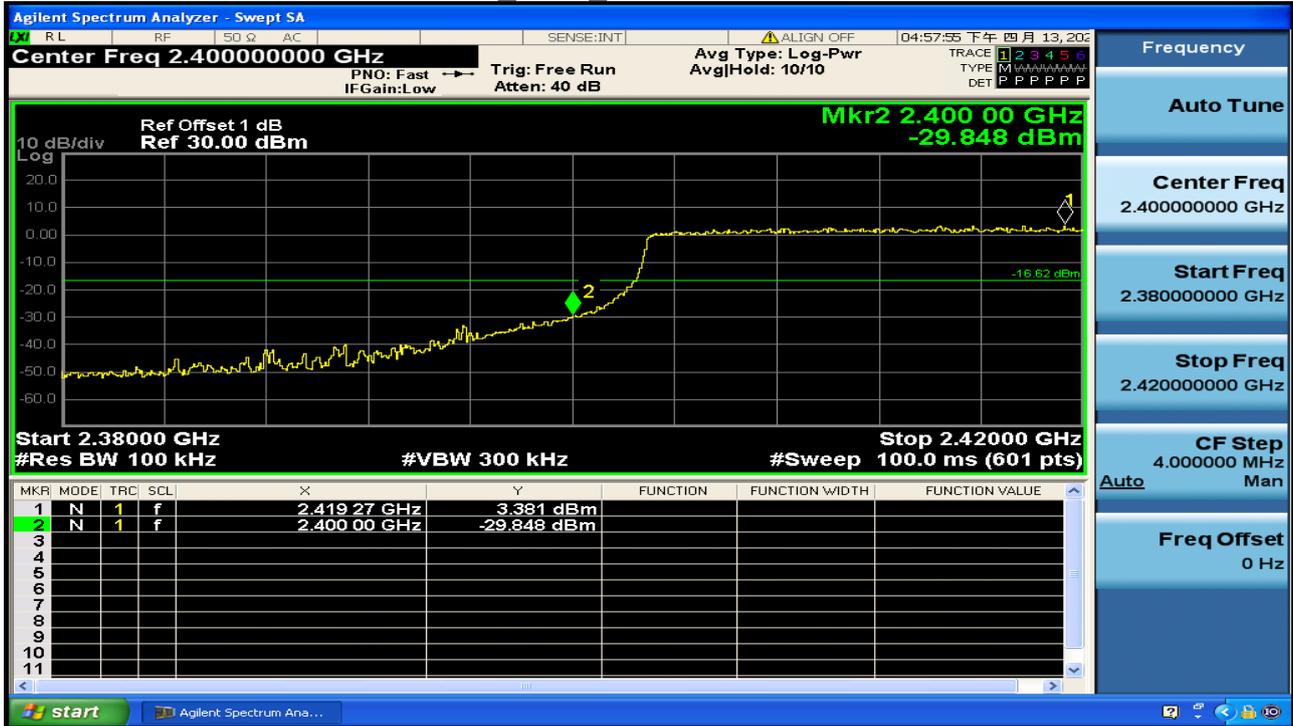


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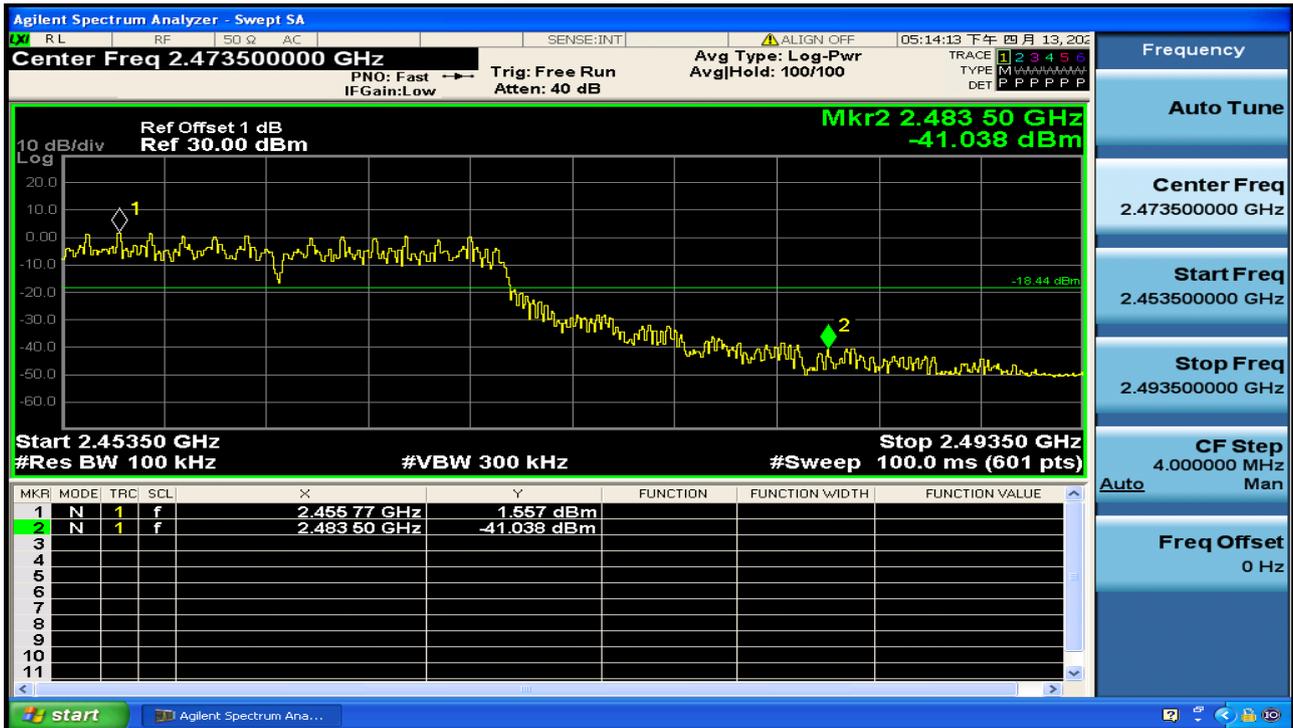
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4.7.1.2.17 802.11AX40MIMO_242T_Lowest Channel



4.7.1.2.18 802.11 AX40MIMO_242T_Highest Channel

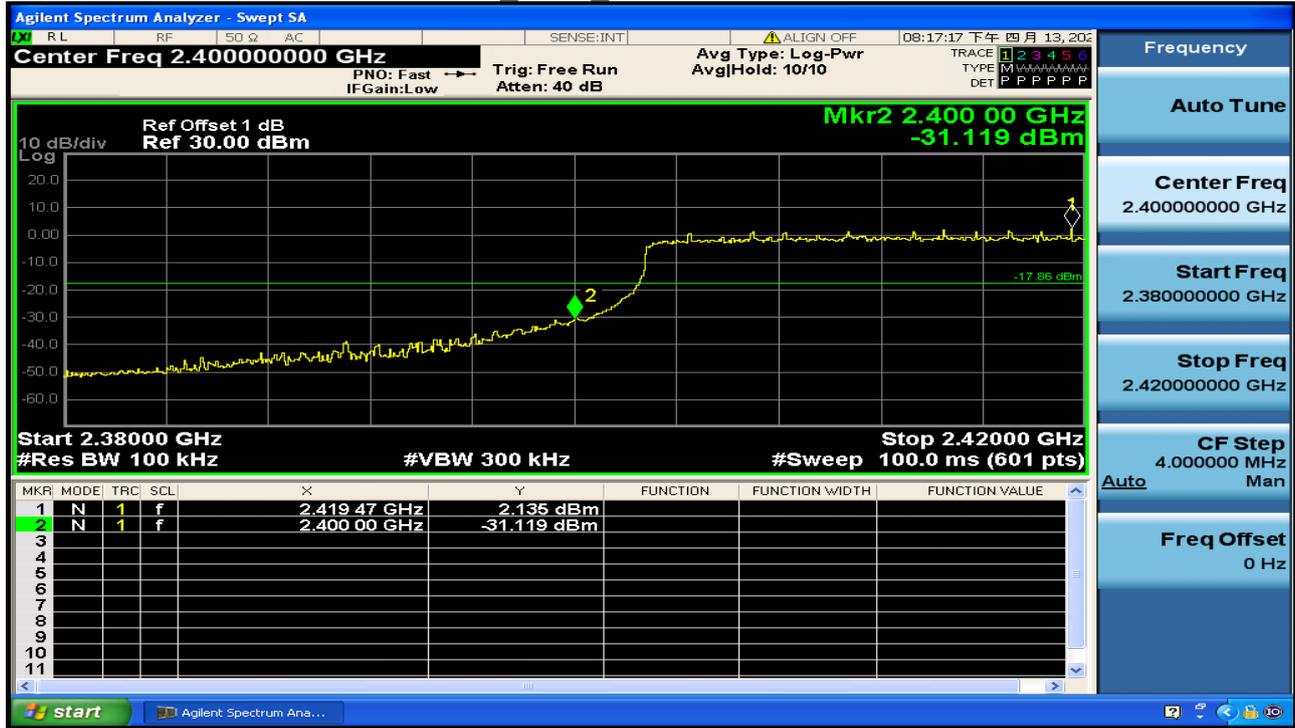


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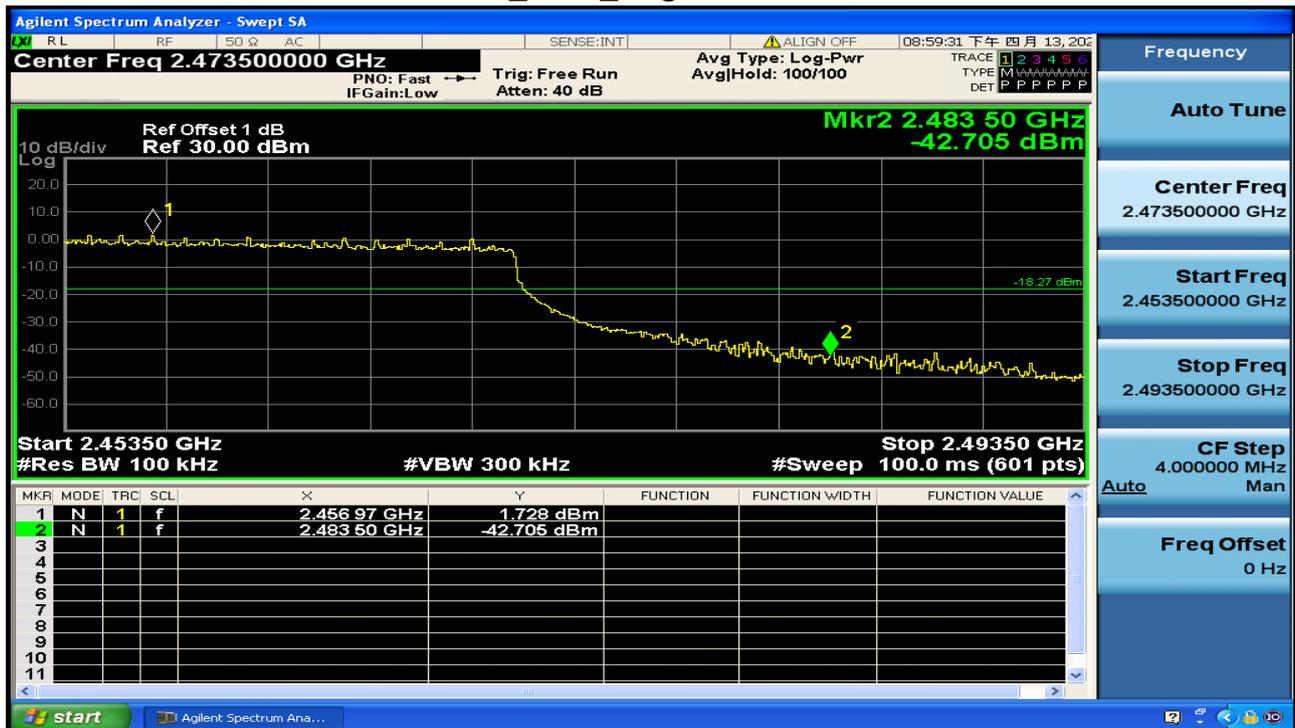
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4.7.1.2.19 802.11AX40MIMO_484T_Lowest Channel



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

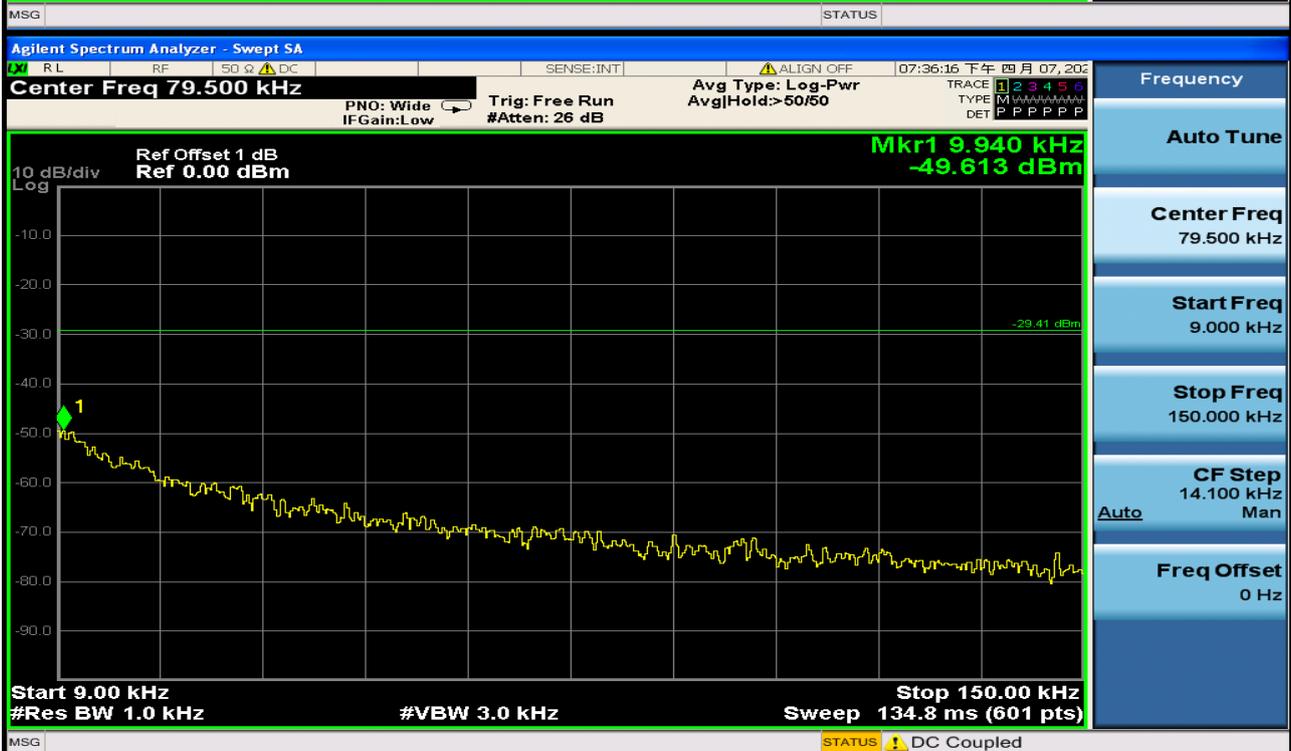


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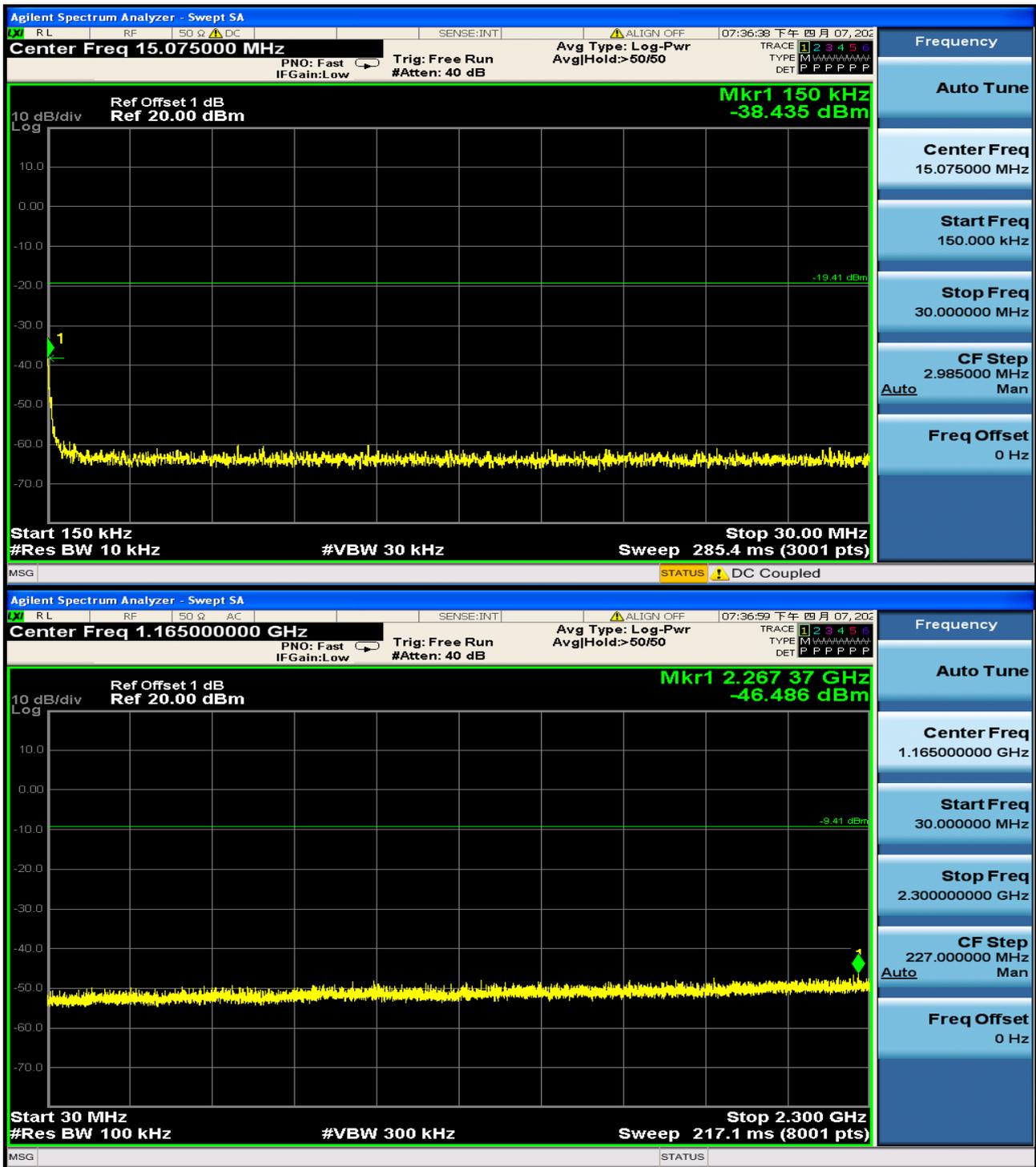
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4.8.1 Test plots
 4.8.1.1 CDD & MIMO_ANT1
 4.8.1.1.1 802.11B Lowest Channel



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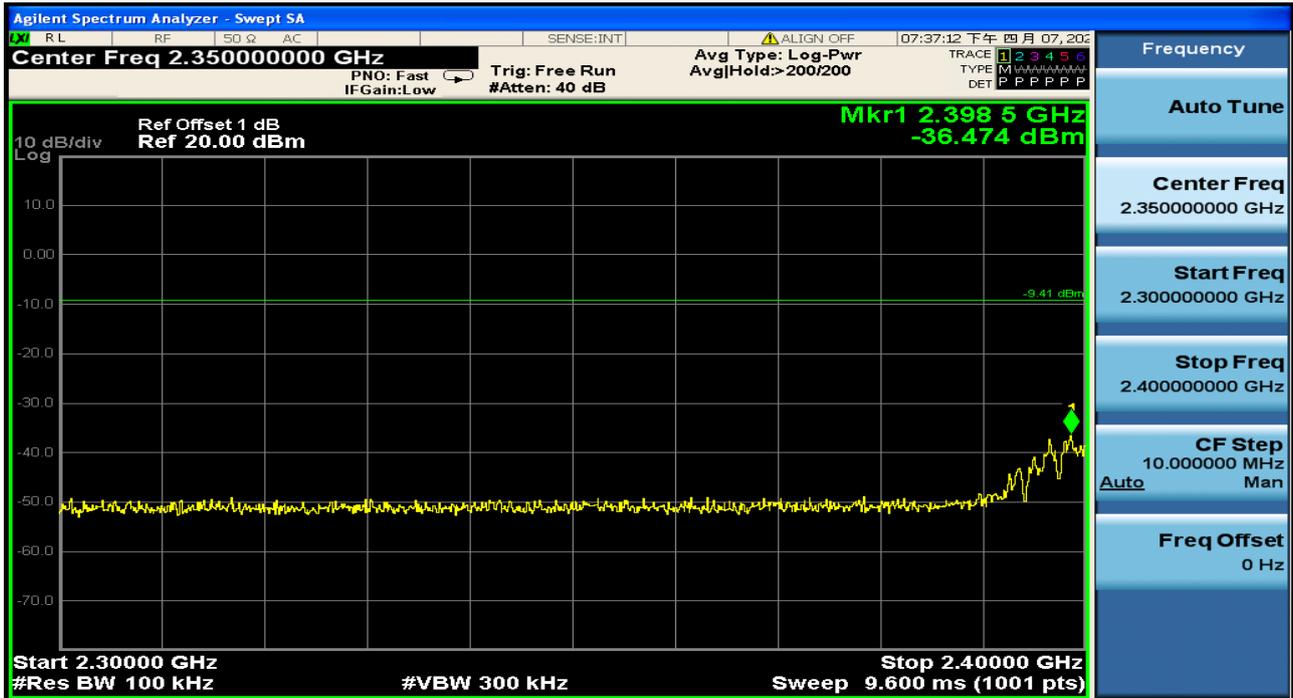


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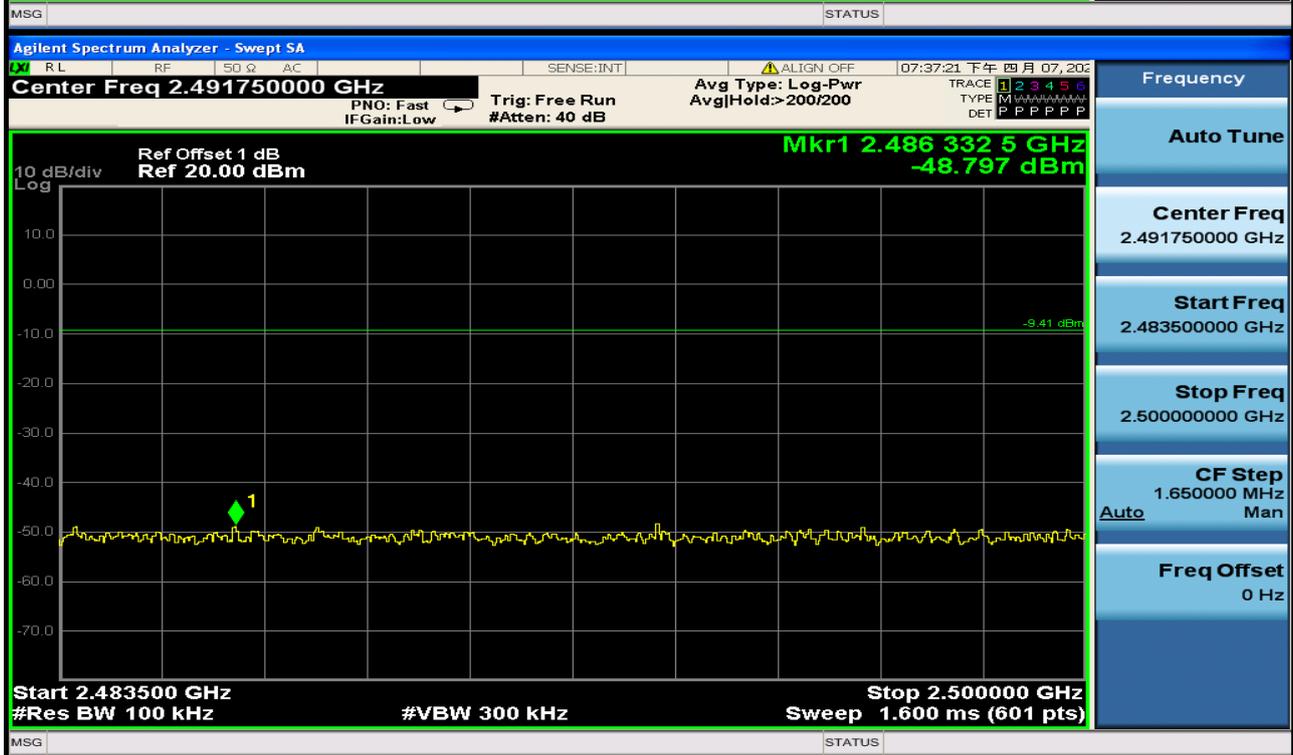
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Frequency
Auto Tune
Center Freq 2.35000000 GHz
Start Freq 2.30000000 GHz
Stop Freq 2.40000000 GHz
CF Step 10.000000 MHz Auto
Freq Offset 0 Hz

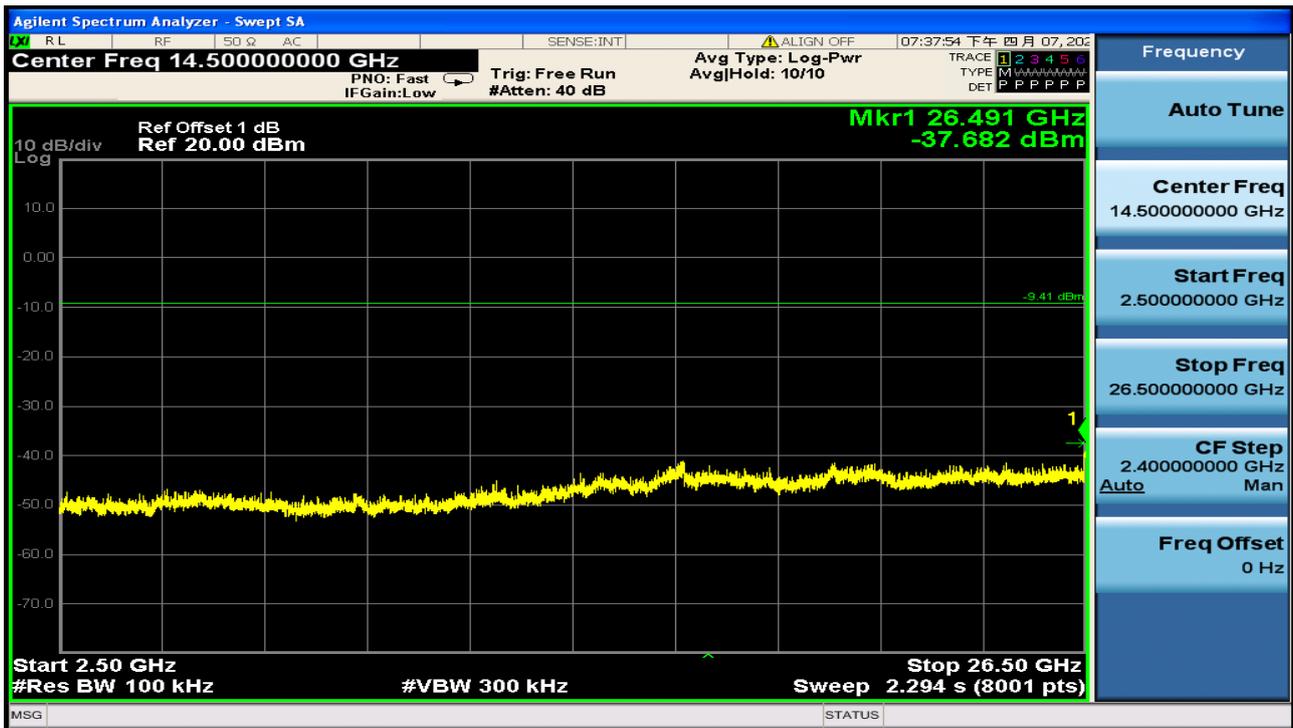


Frequency
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Start Freq 2.48350000 GHz
Stop Freq 2.50000000 GHz
CF Step 1.650000 MHz Auto
Freq Offset 0 Hz



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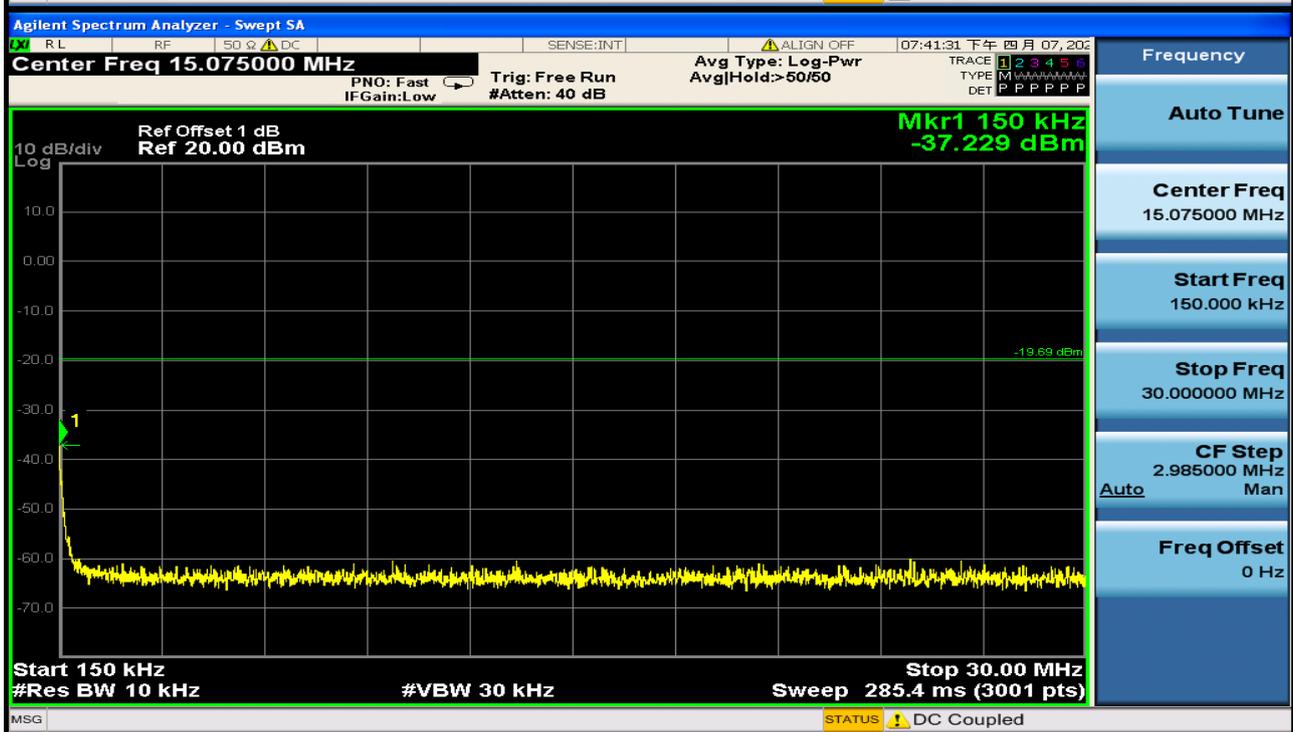
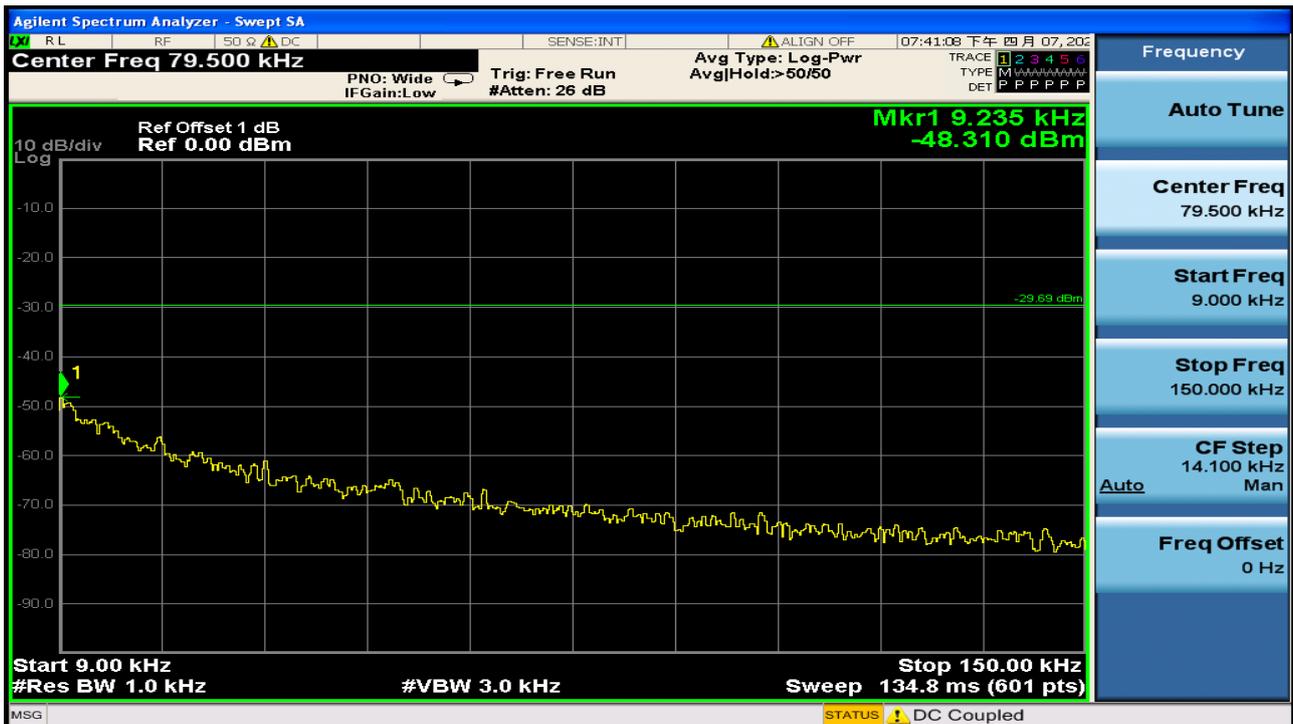
4.8.1.1.2 802.11B Middle Channel



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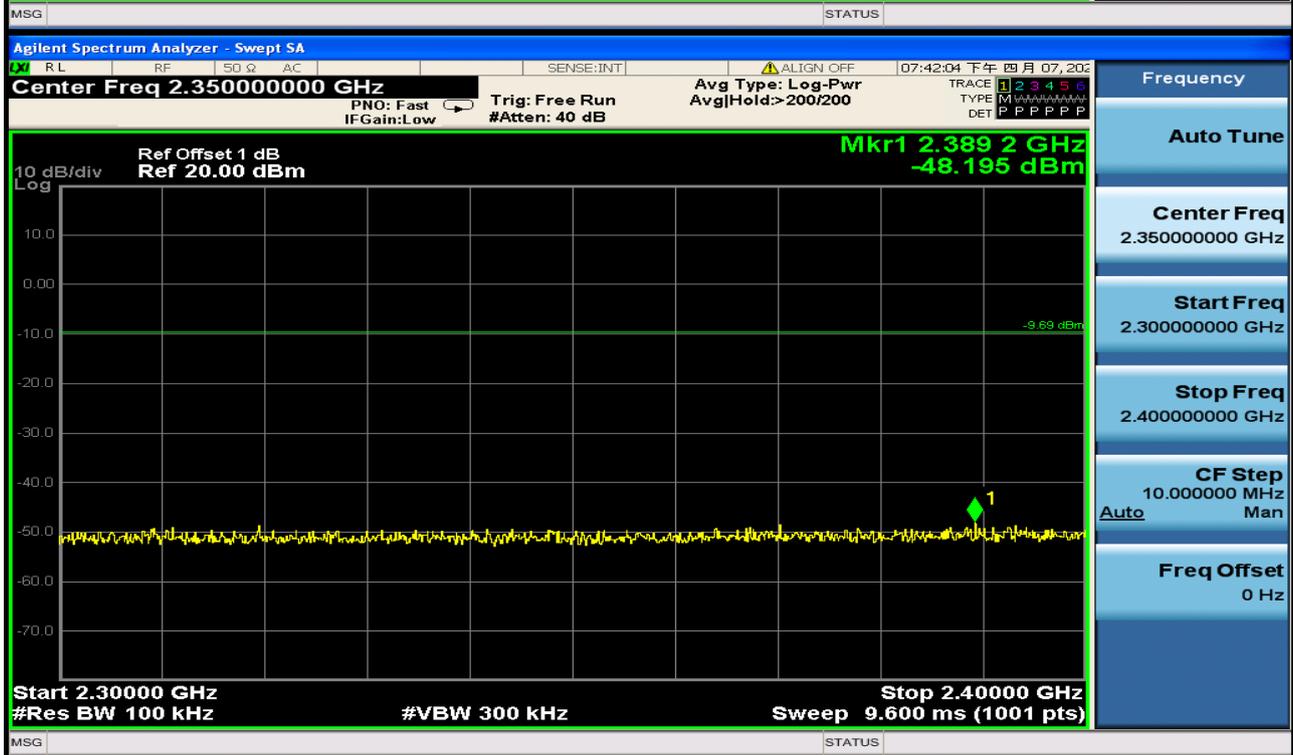
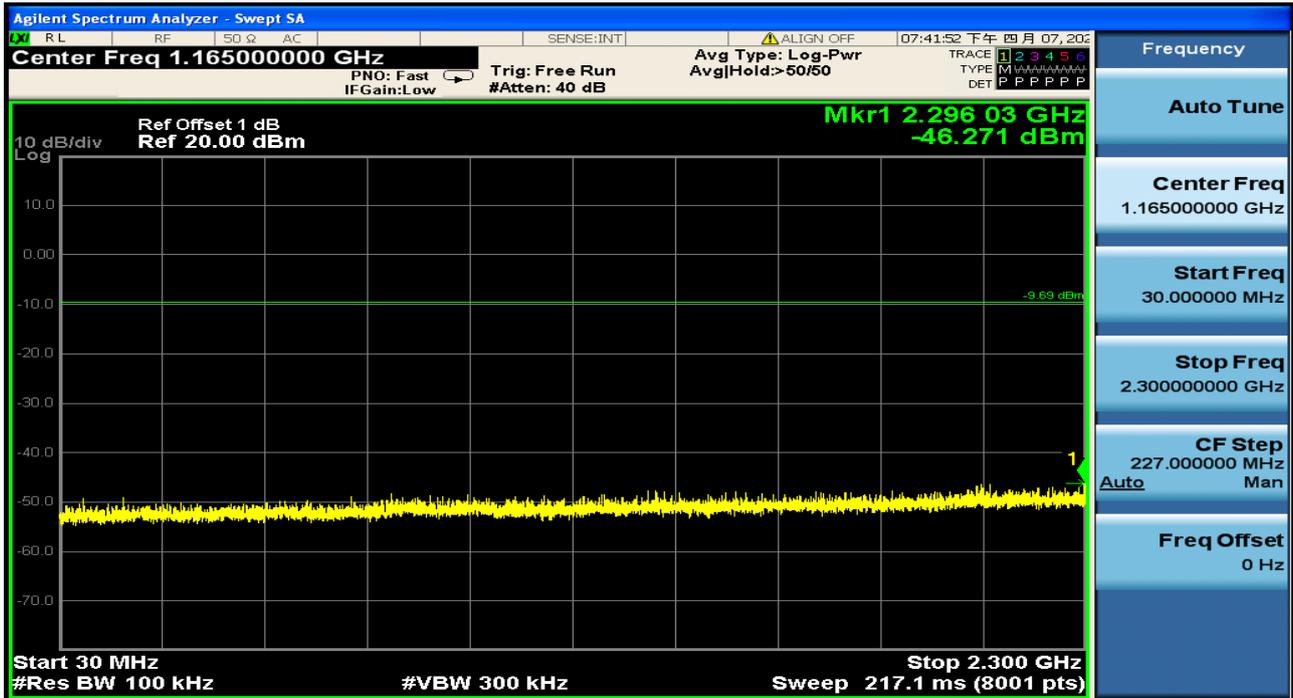
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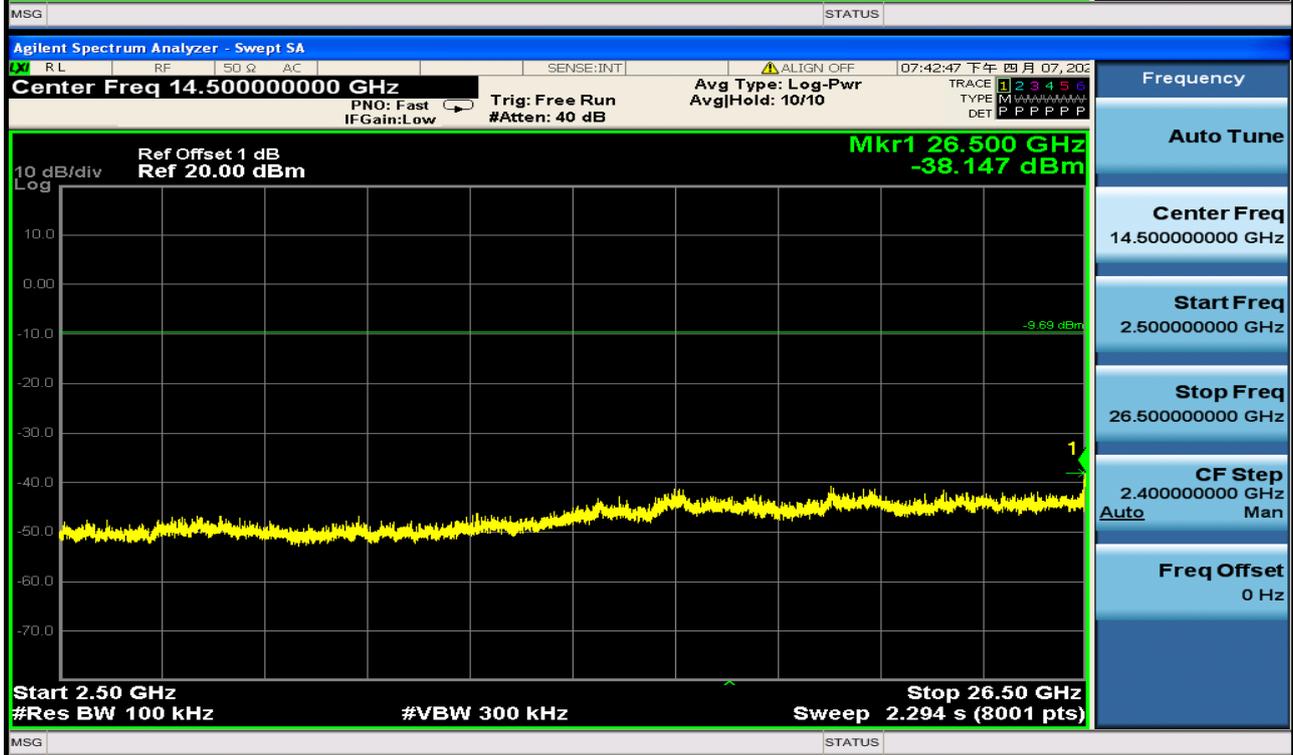
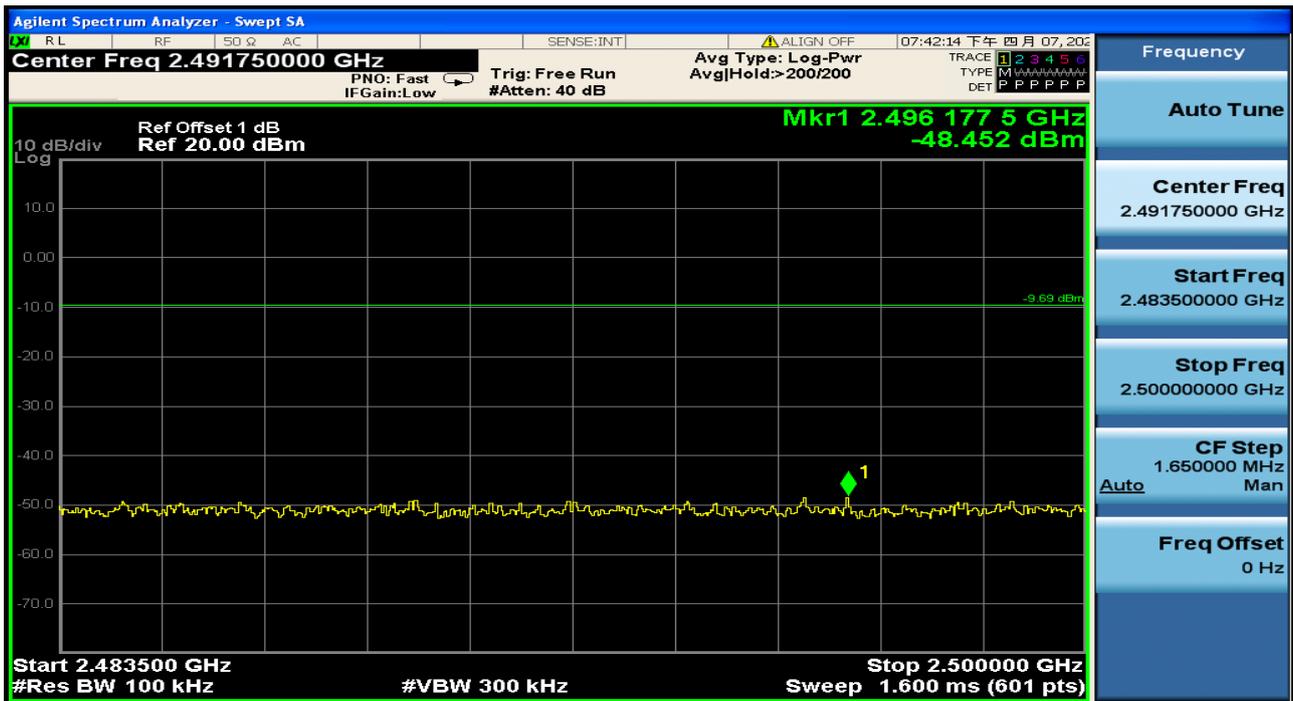
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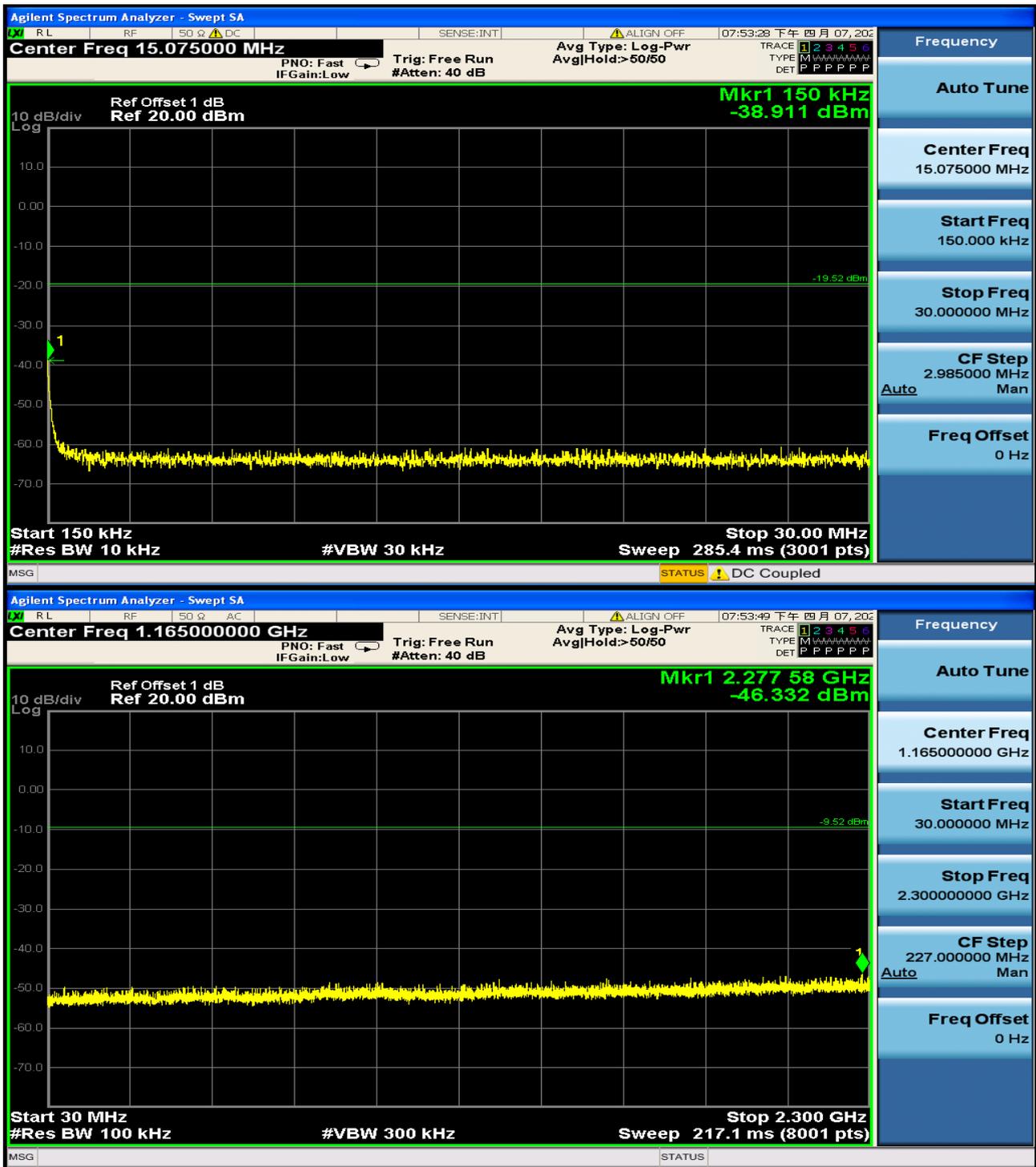


4.8.1.1.3 802.11B Highest Channel



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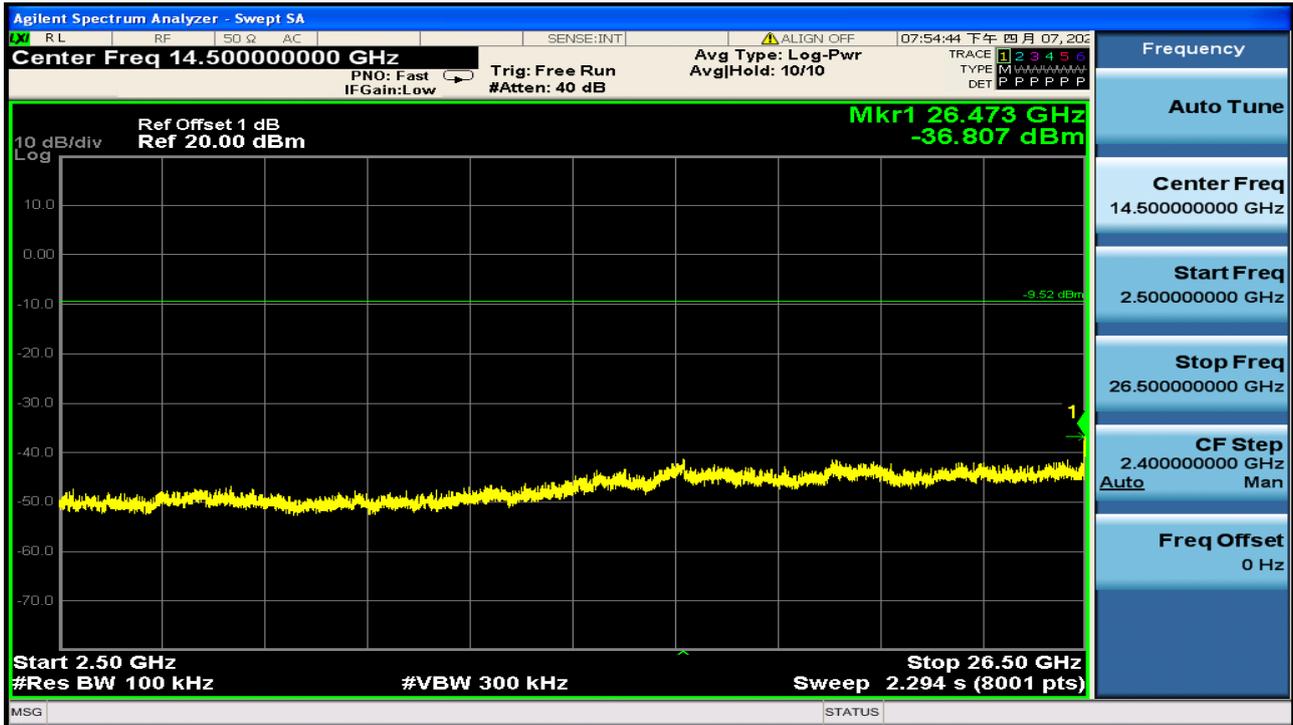
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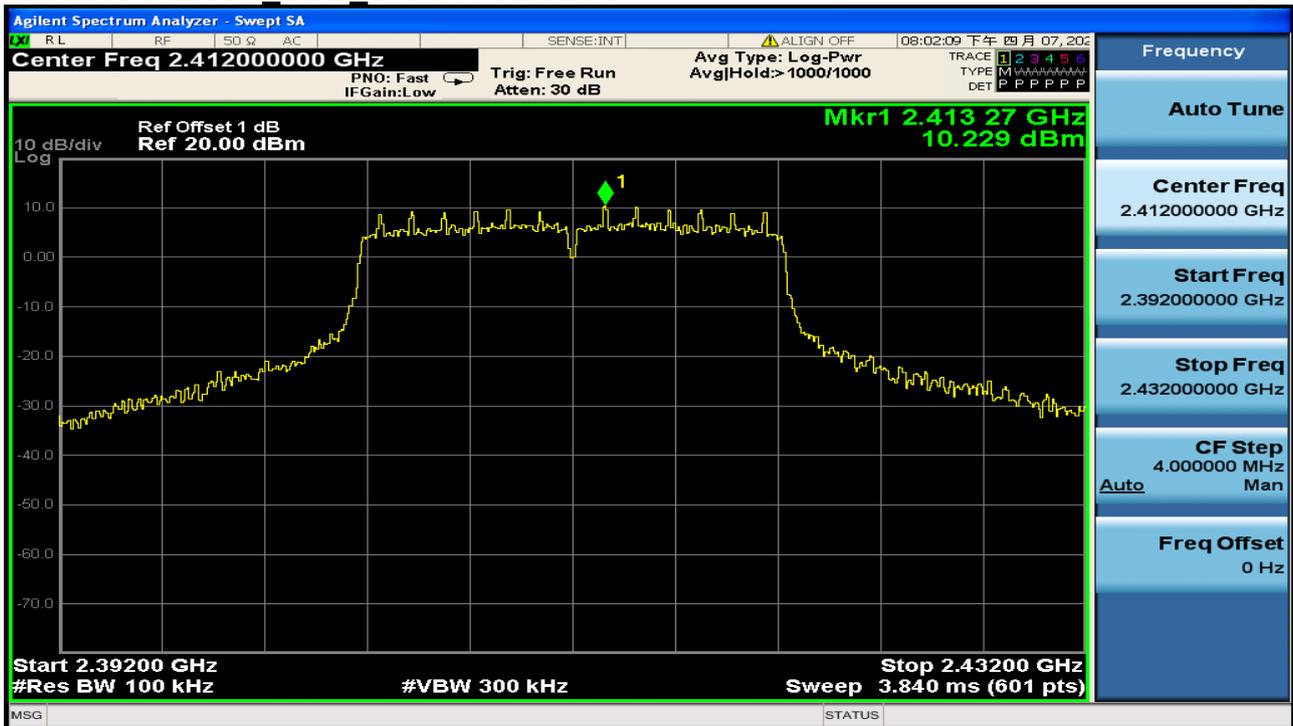


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4.8.1.1.4 802.11G CDD Lowest Channel

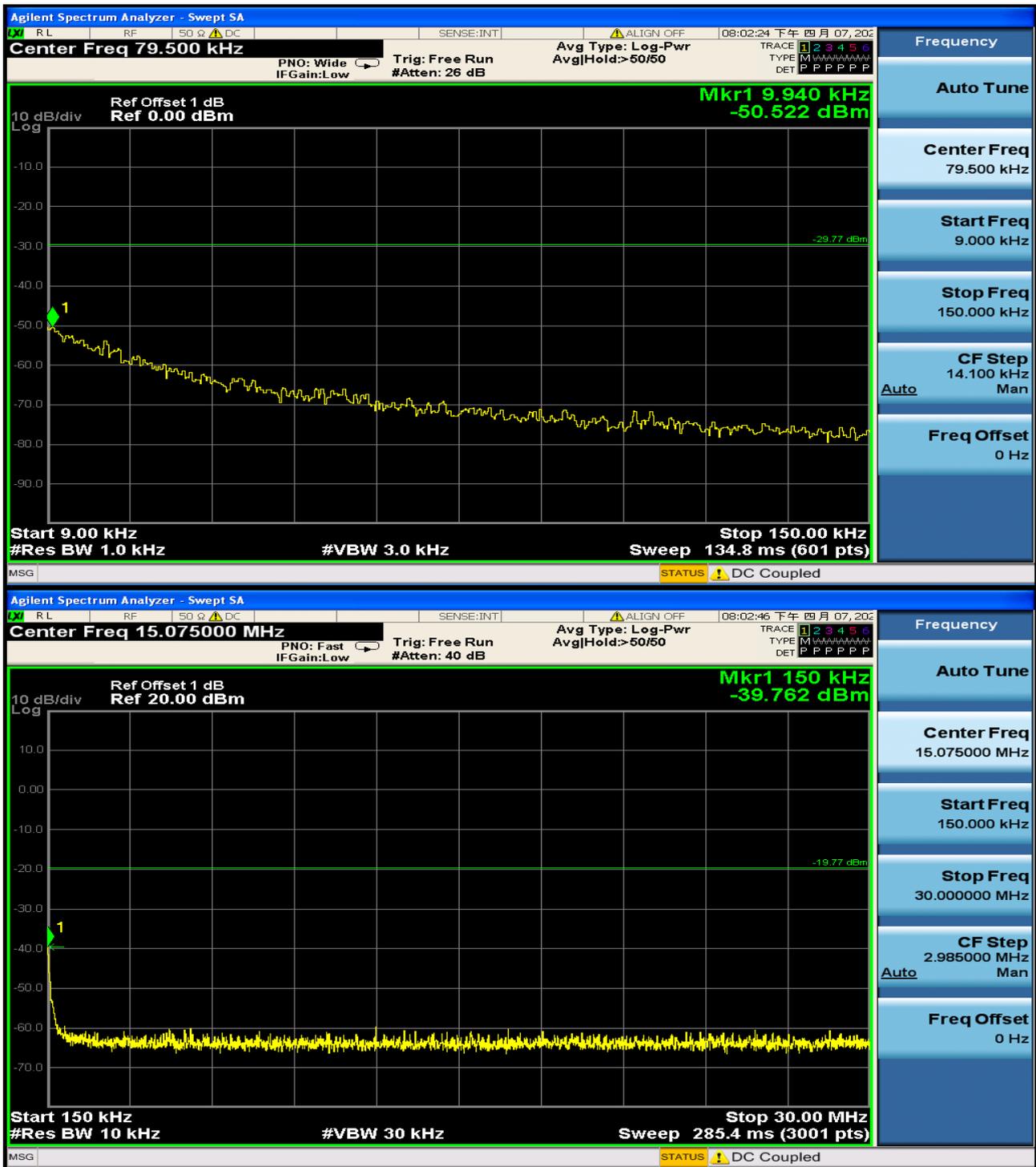


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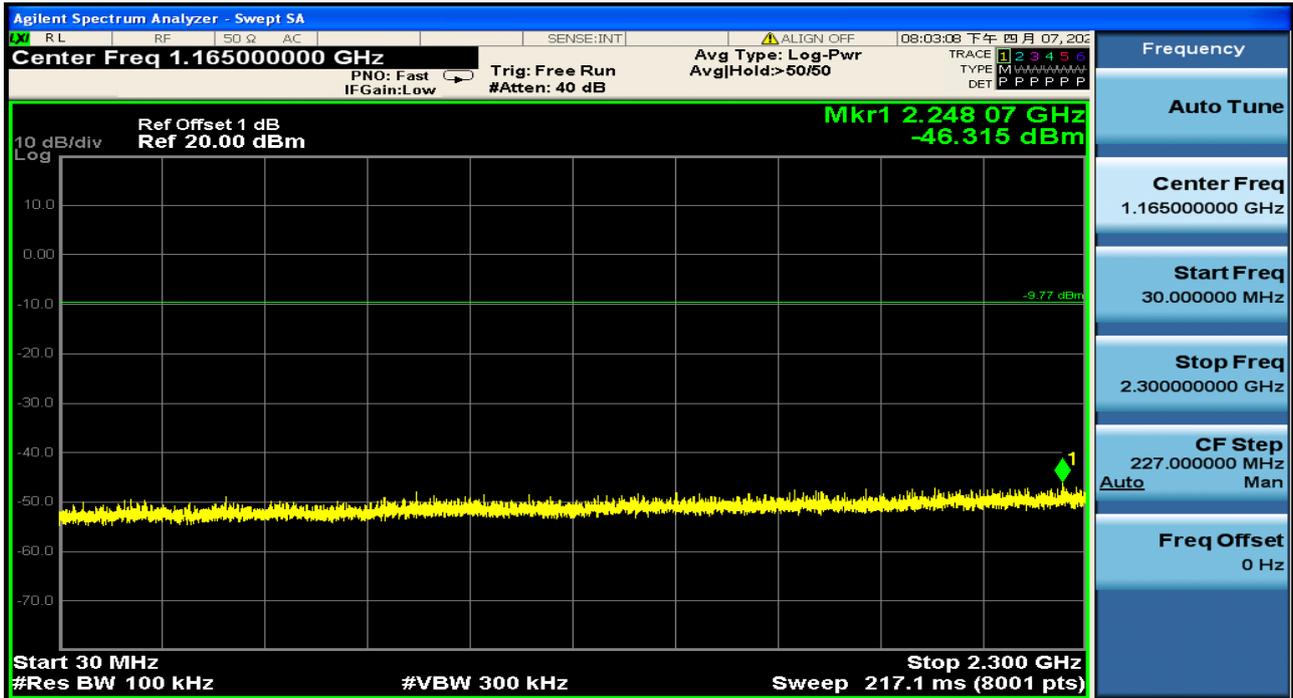
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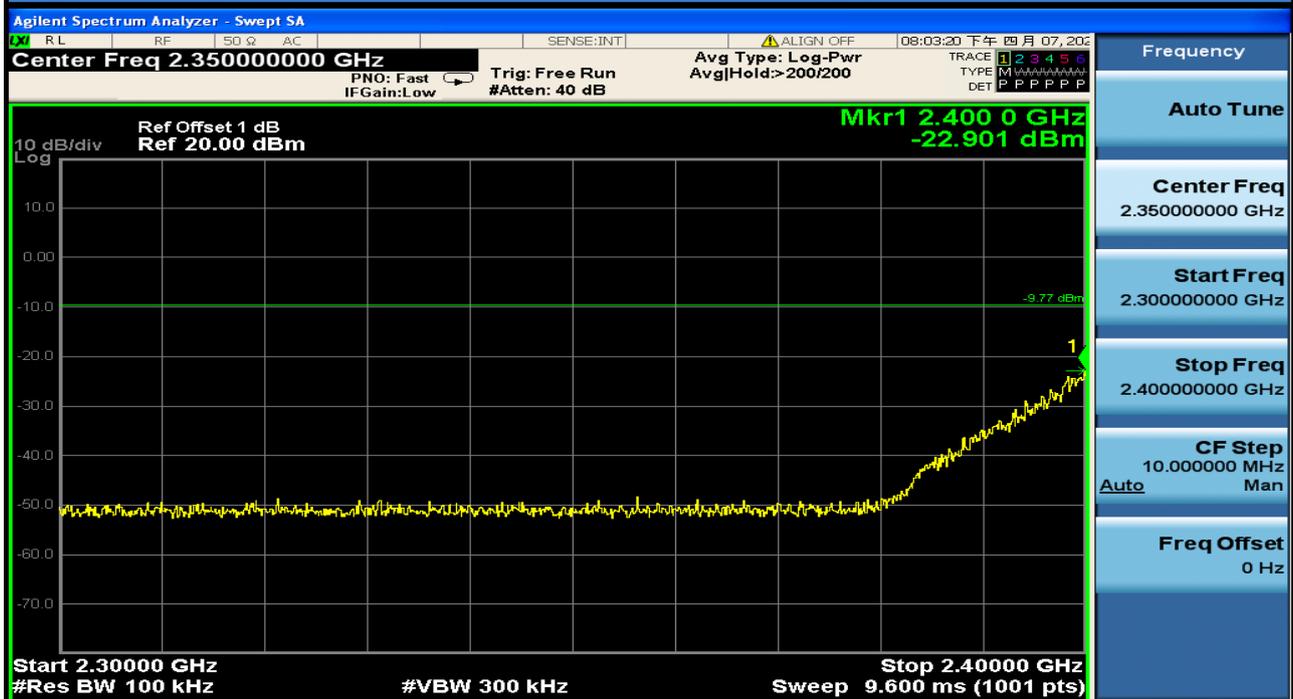


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Center Freq 1.16500000 GHz
Start Freq 30.000000 MHz
Stop Freq 2.30000000 GHz
CF Step 227.000000 MHz Auto Man
Freq Offset 0 Hz

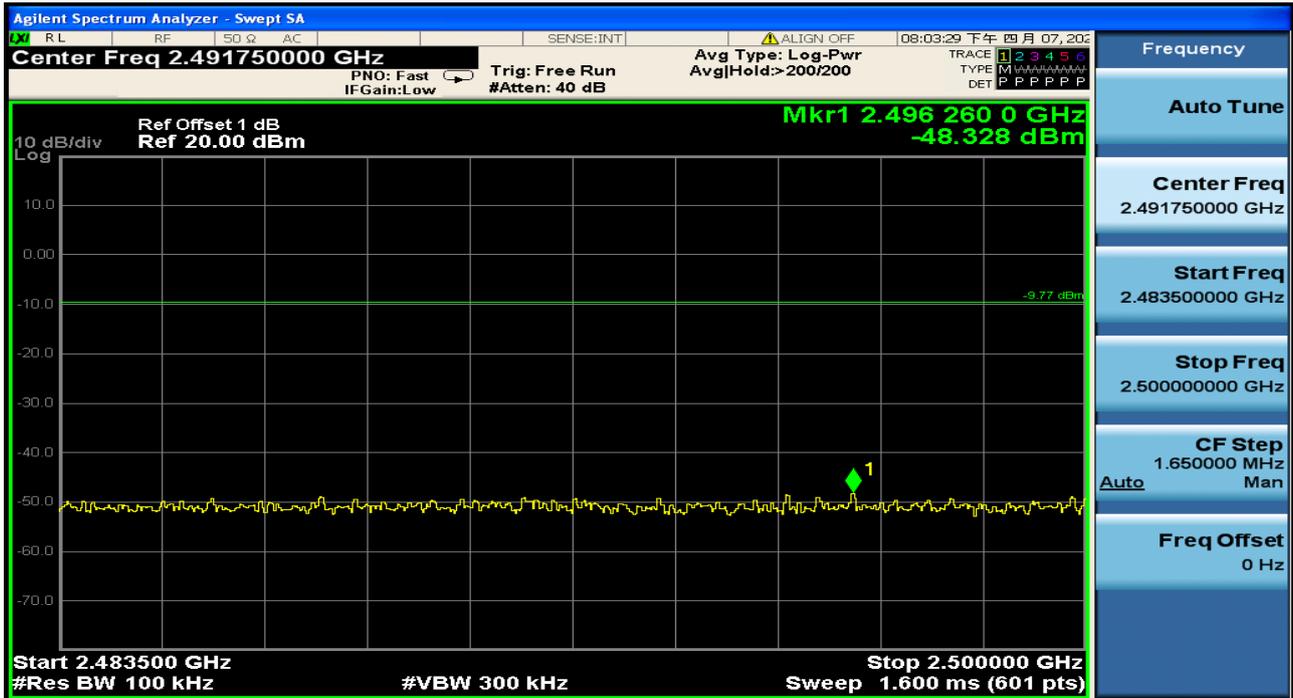


Frequency
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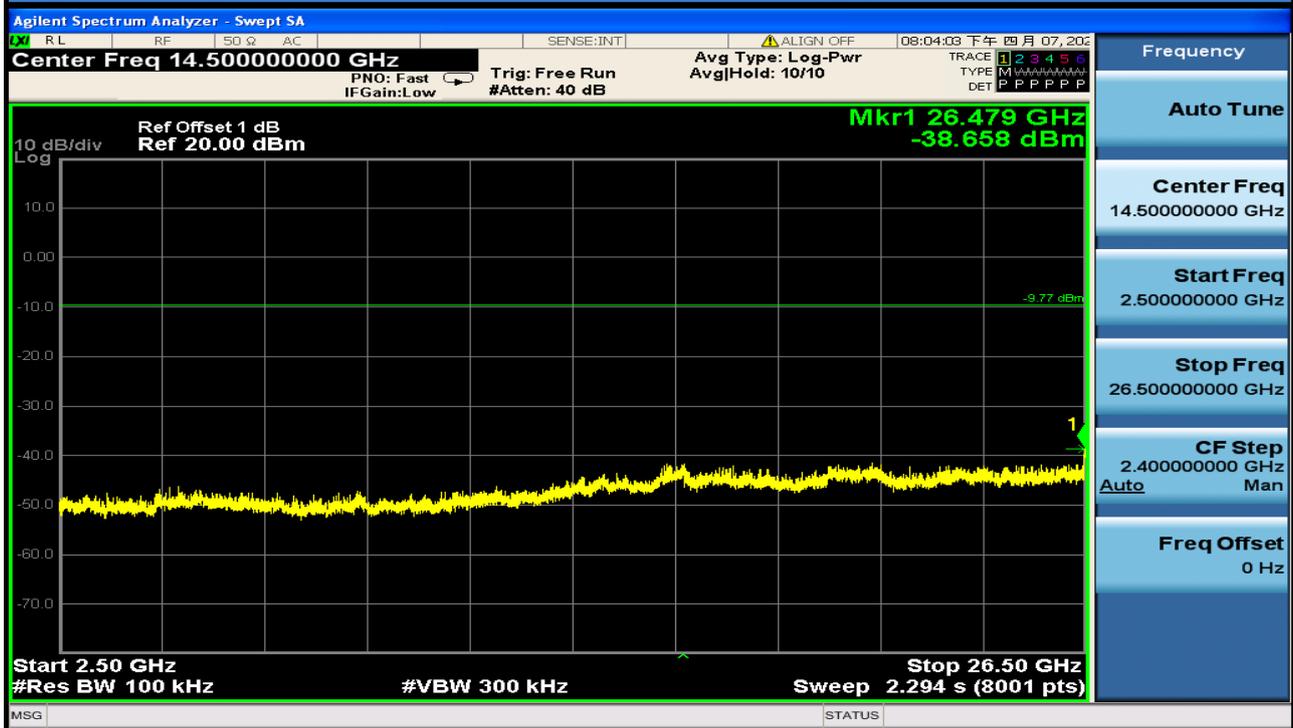


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Frequency
Auto Tune
Center Freq 2.491750000 GHz
Start Freq 2.483500000 GHz
Stop Freq 2.500000000 GHz
CF Step 1.650000 MHz Auto Man
Freq Offset 0 Hz



Frequency
Auto Tune
Center Freq 14.500000000 GHz
Start Freq 2.500000000 GHz
Stop Freq 26.500000000 GHz
CF Step 2.400000000 GHz Auto Man
Freq Offset 0 Hz

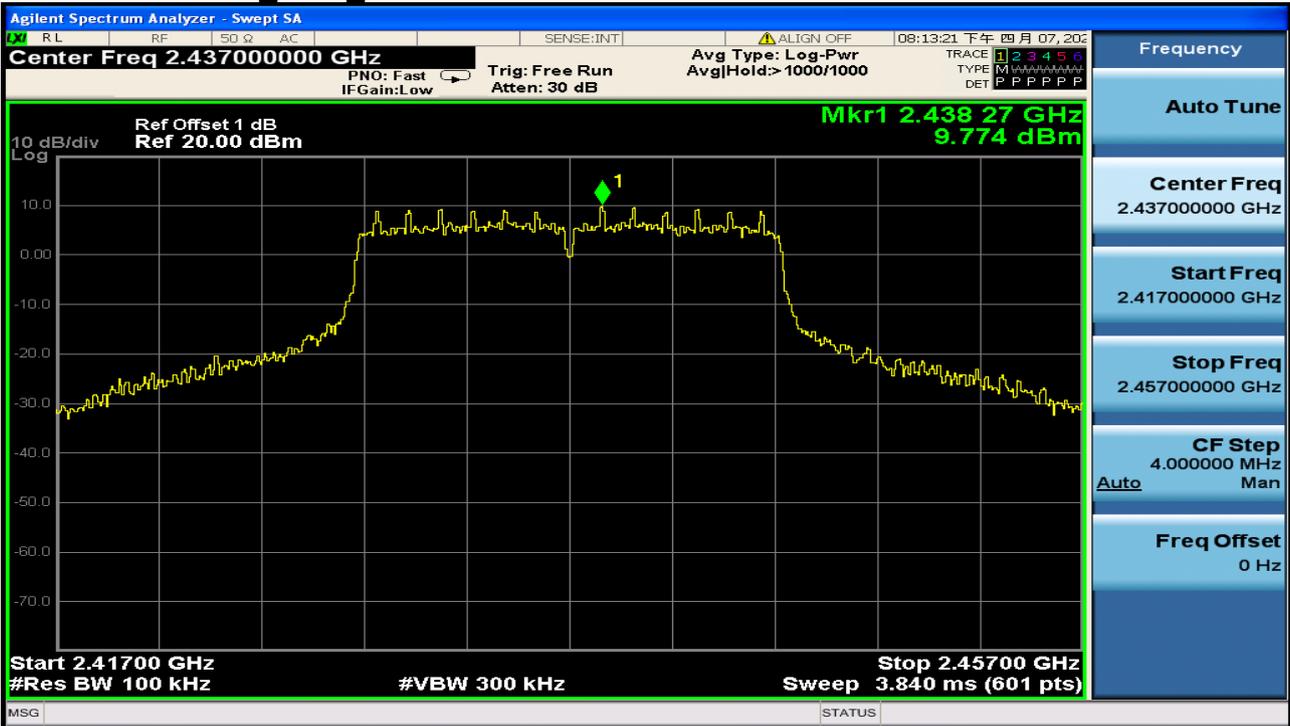


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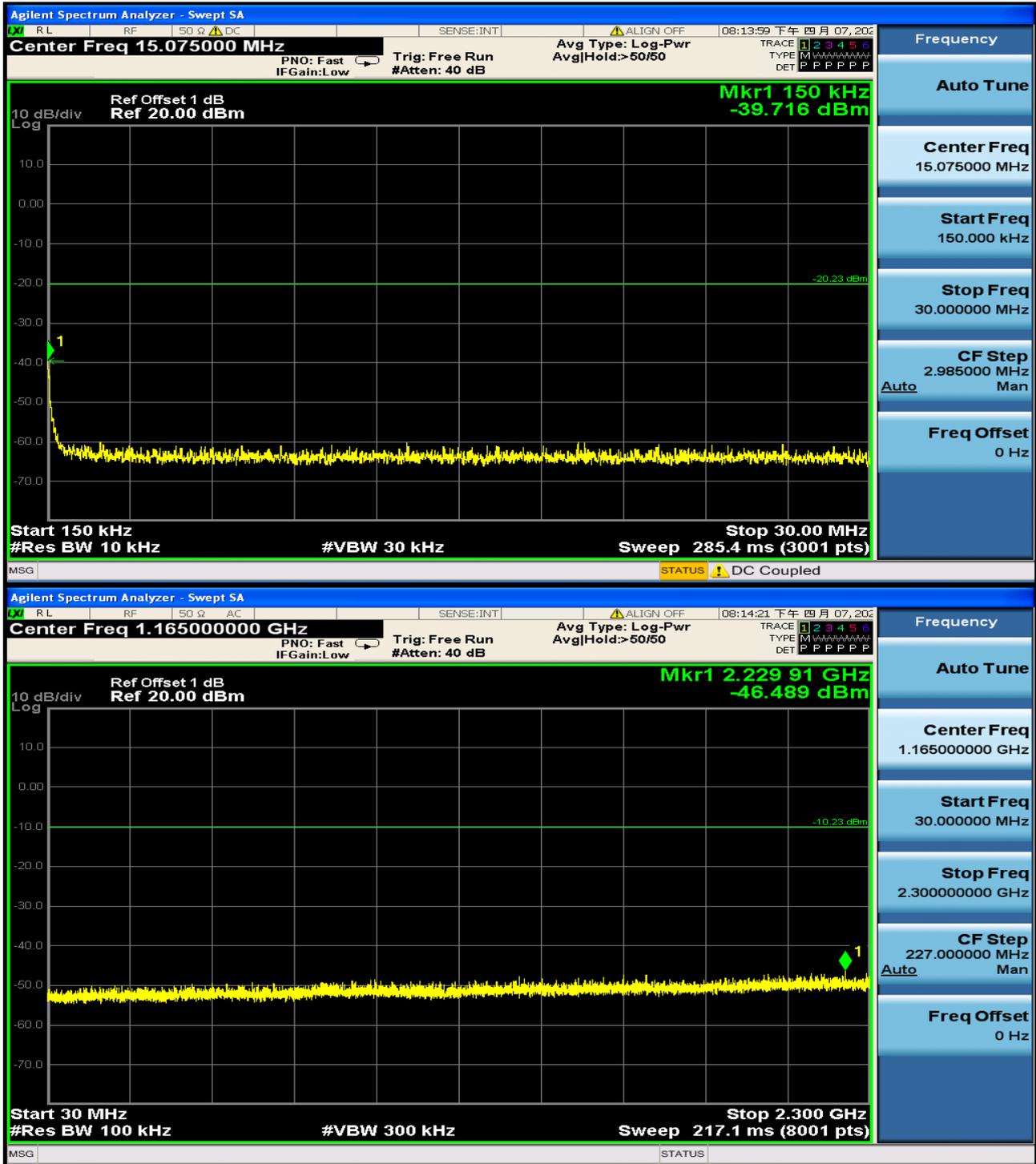
4.8.1.1.5 802.11G CDD Middle Channel



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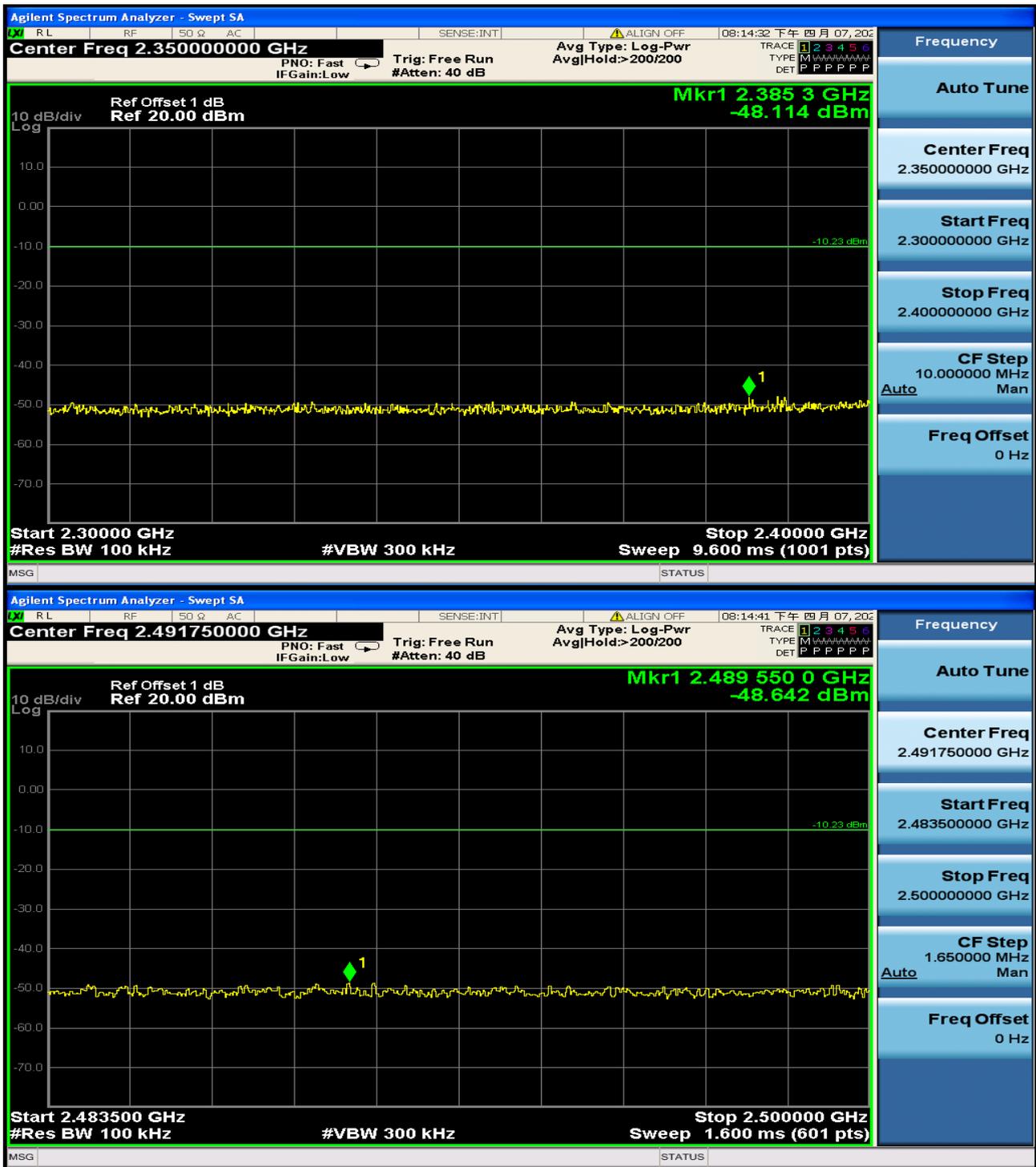
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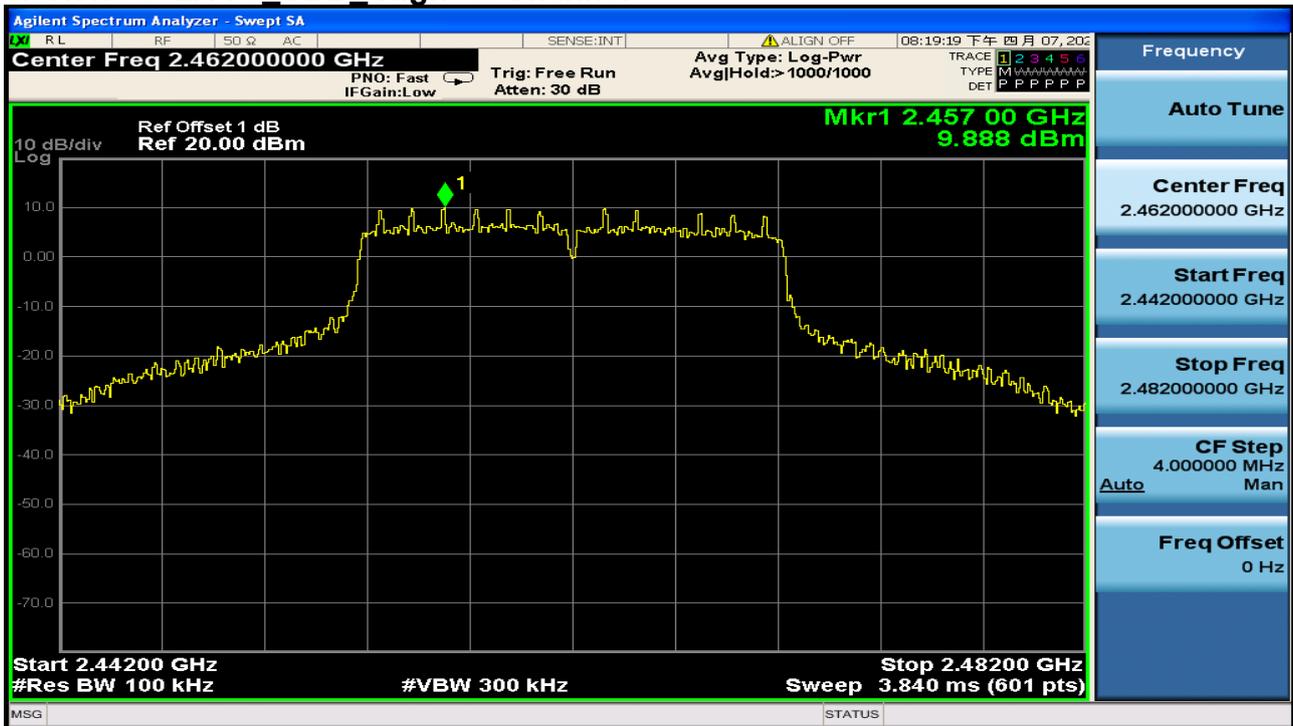


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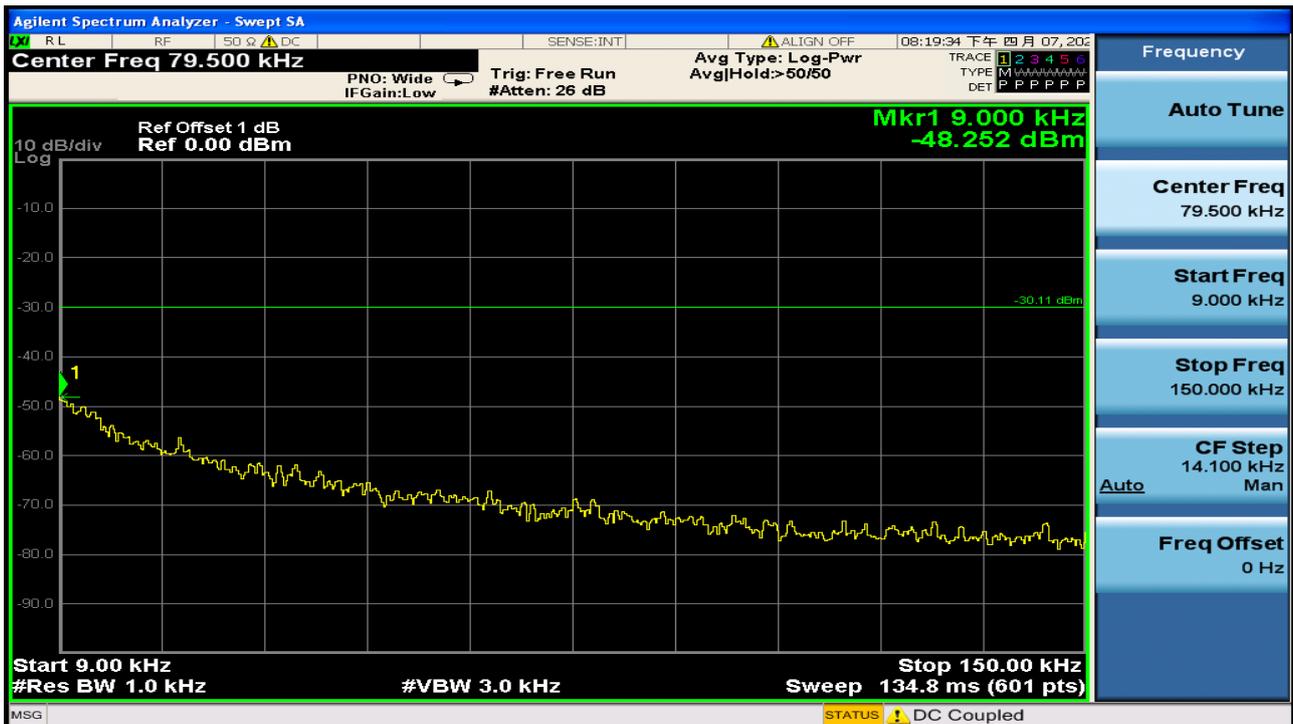


4.8.1.1.6 802.11G CDD_Highest Channel

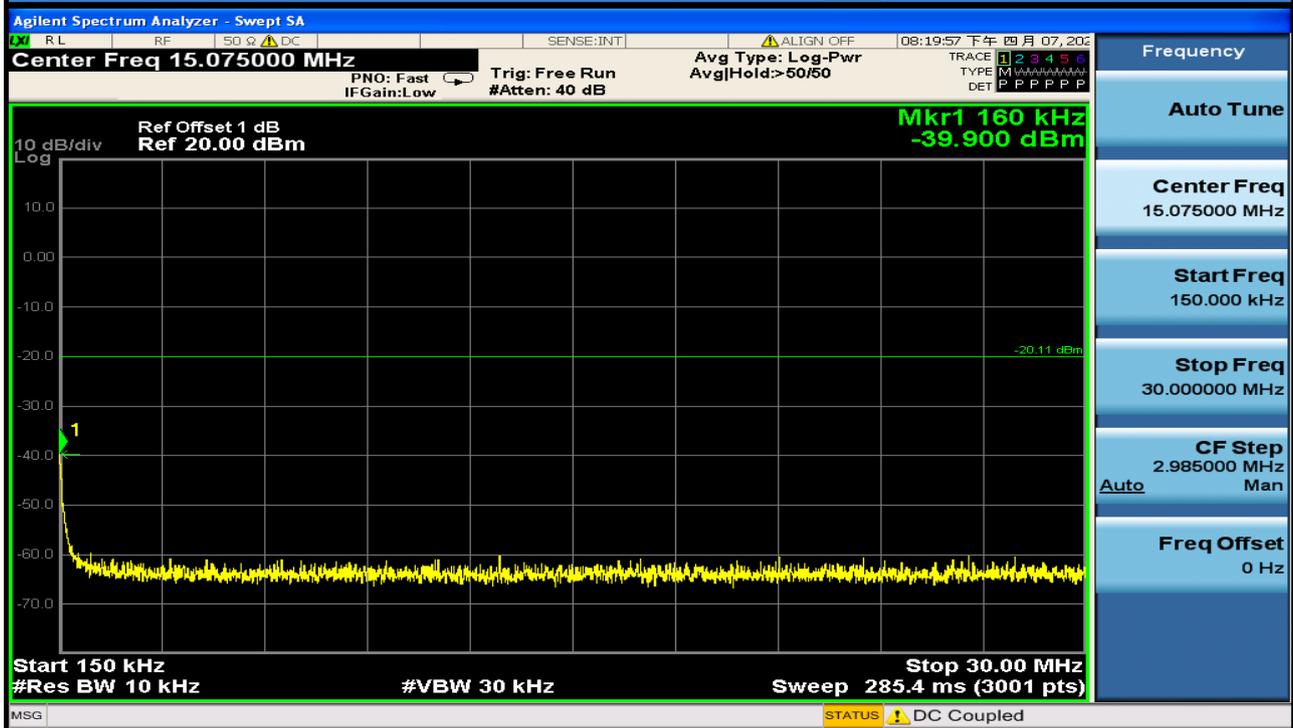


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Center Freq 79.500 kHz
Start Freq 9.000 kHz
Stop Freq 150.000 kHz
CF Step 14.100 kHz Man
Freq Offset 0 Hz



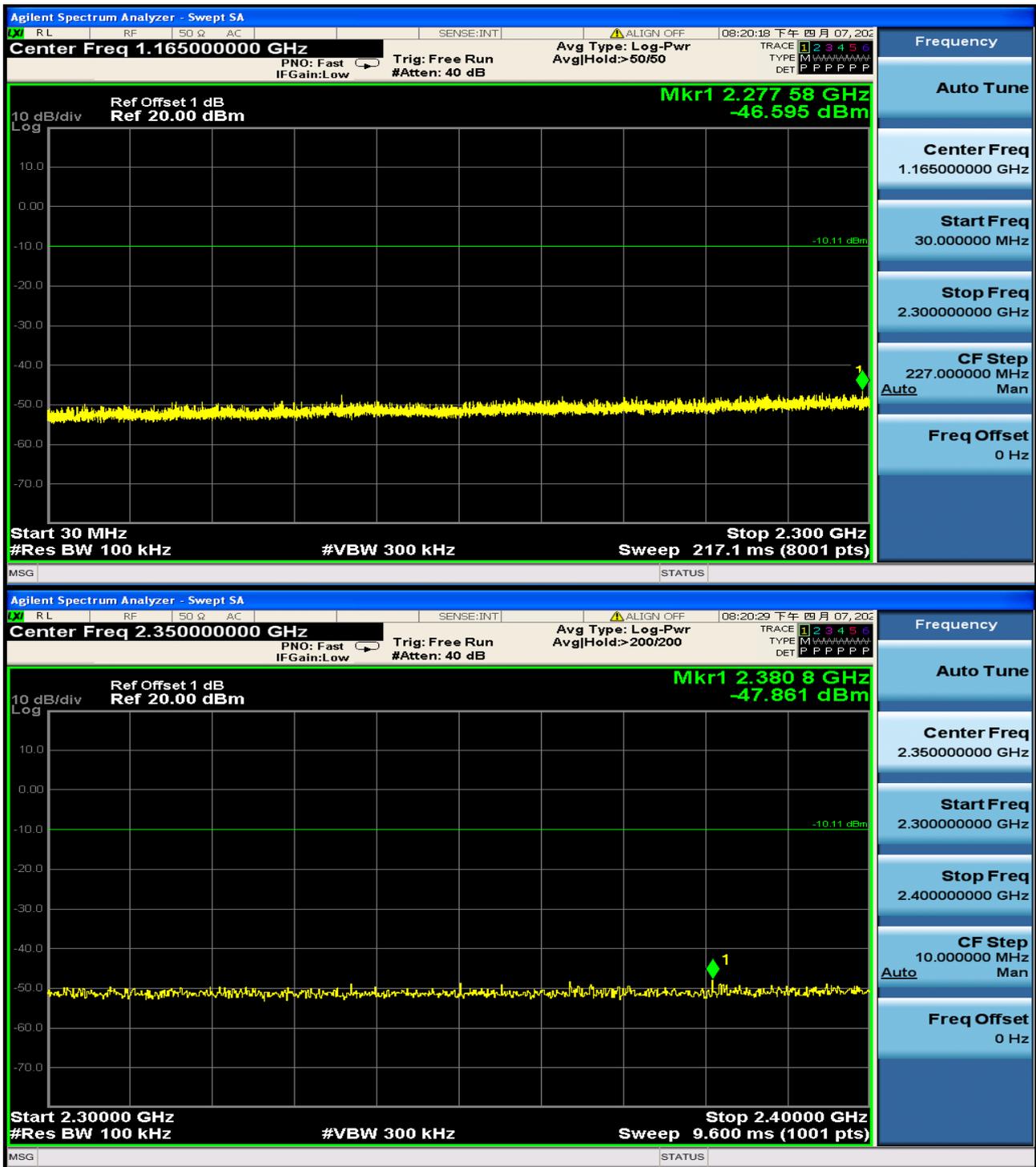
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Start Freq 150.000 kHz
Stop Freq 30.000000 MHz
CF Step 2.985000 MHz Man
Freq Offset 0 Hz



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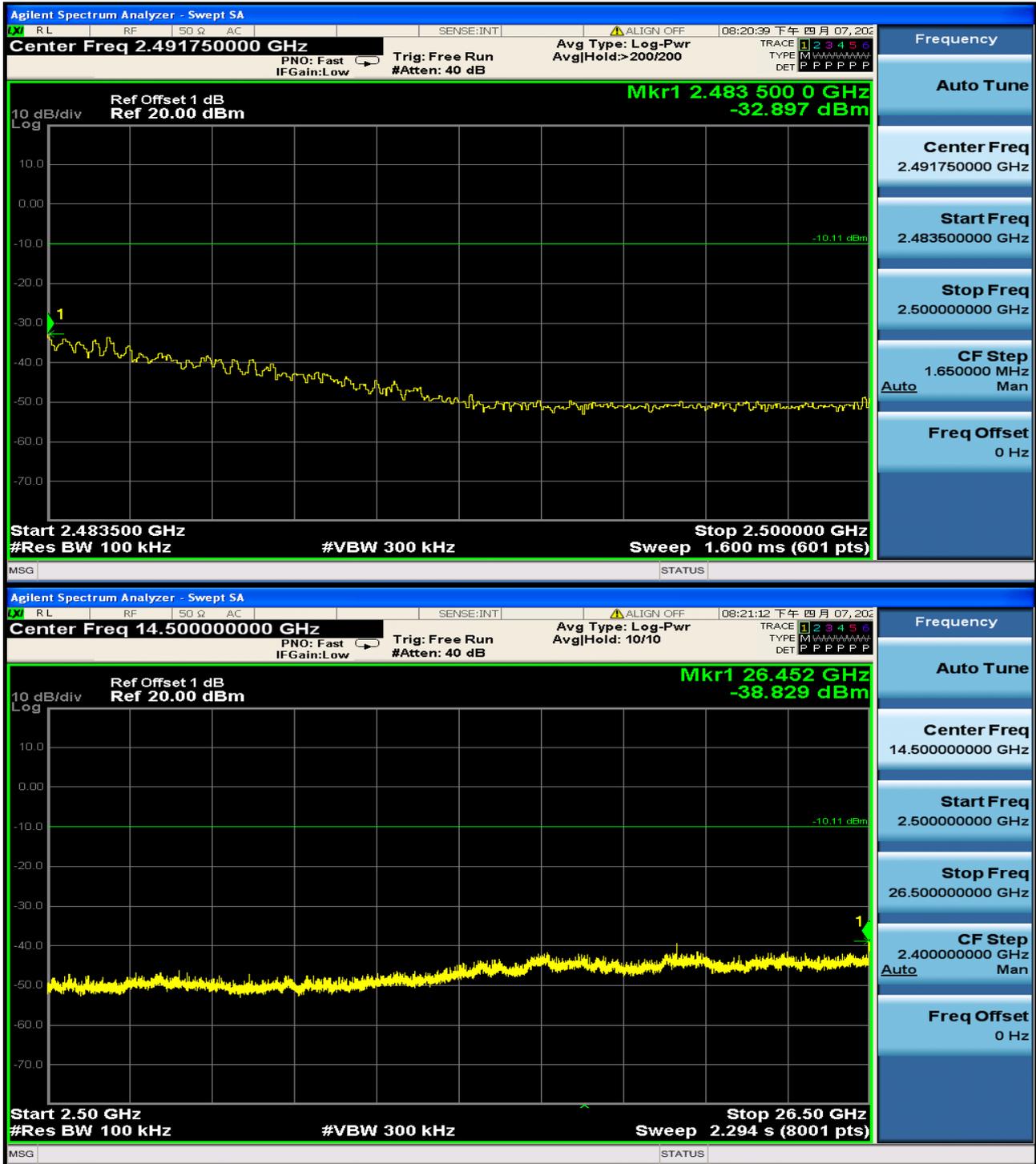
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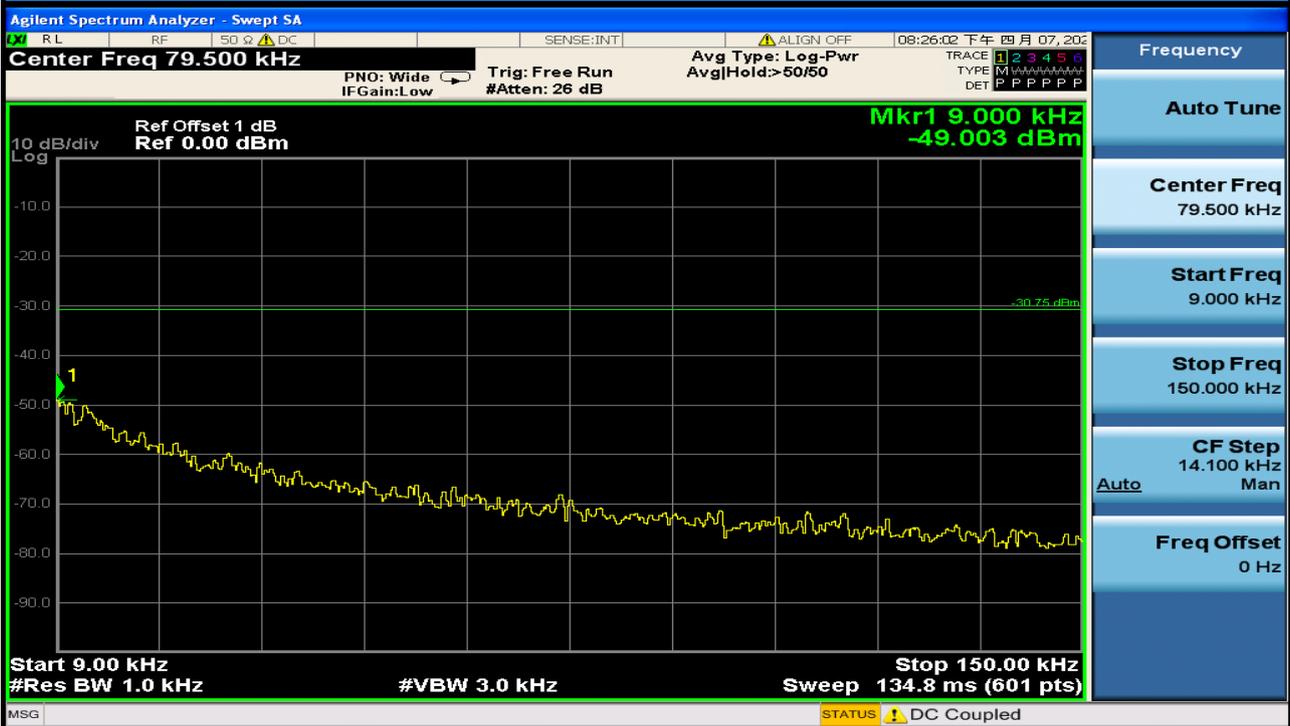
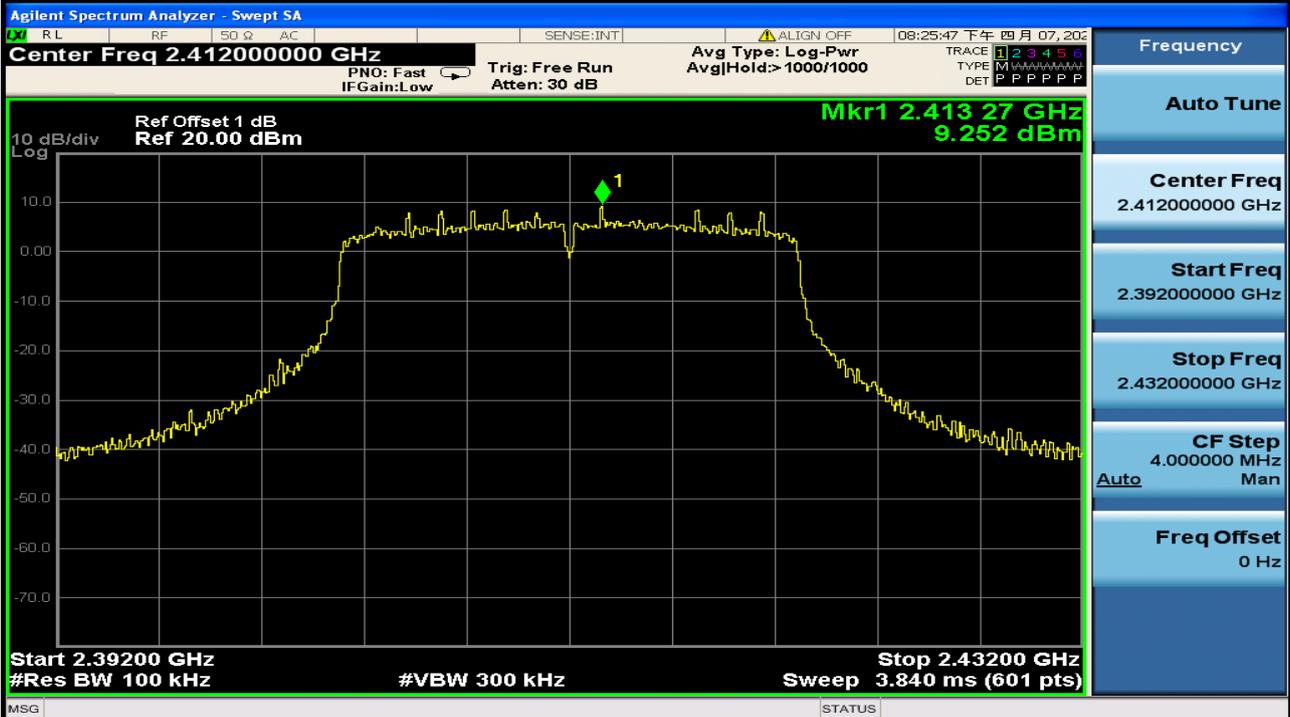


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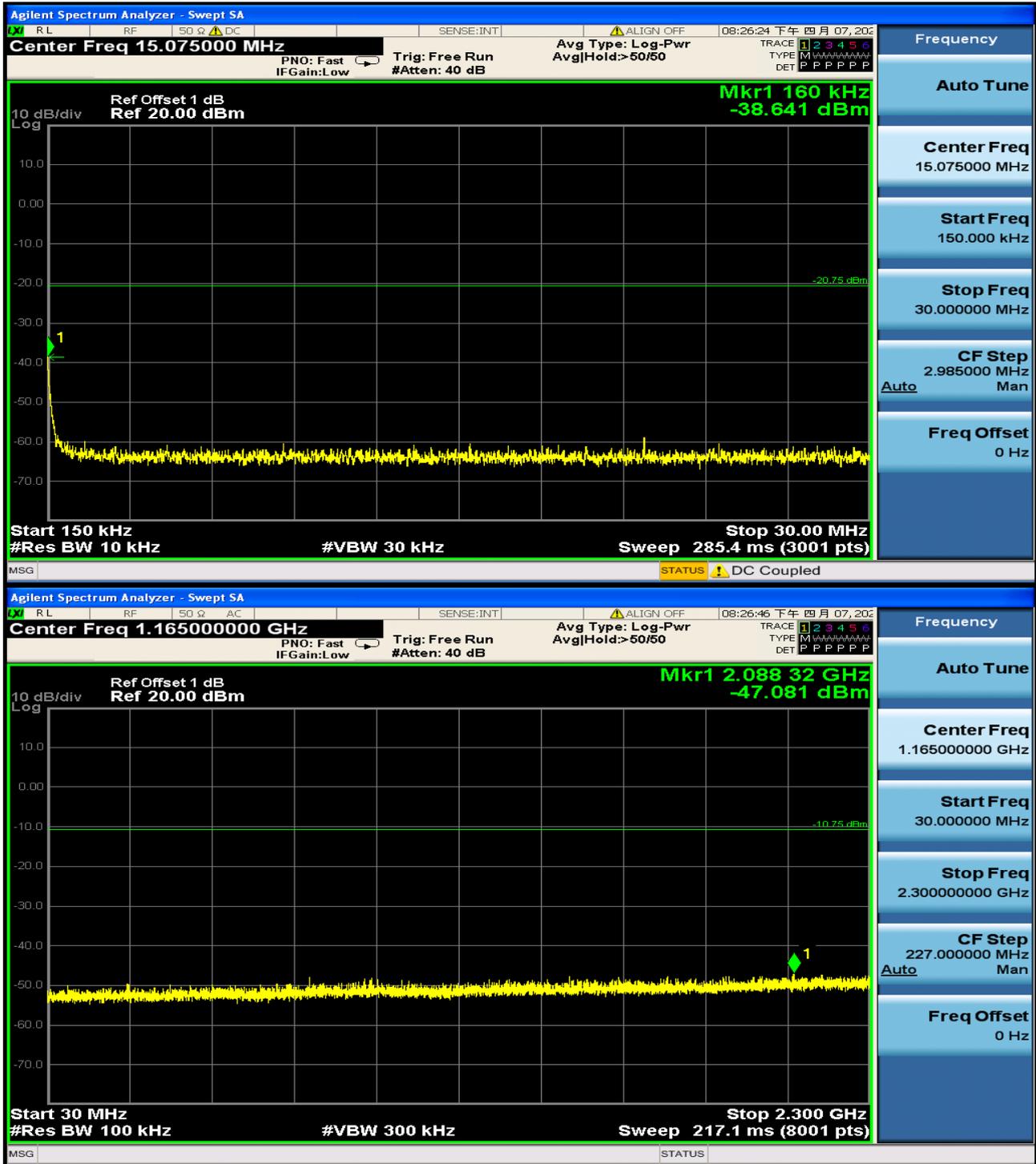
4.8.1.1.7 802.11N20MIMO_Lowest Channel



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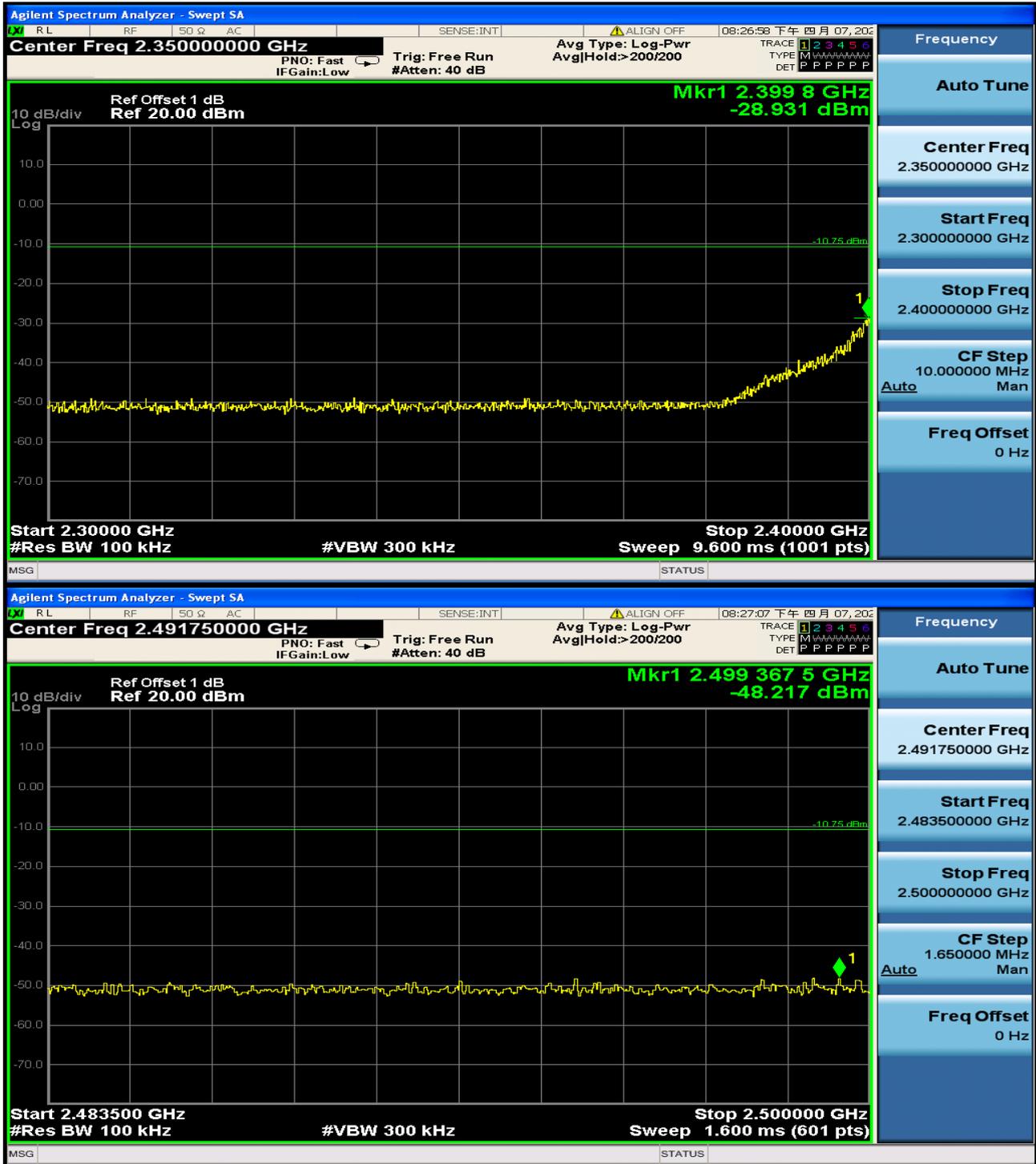
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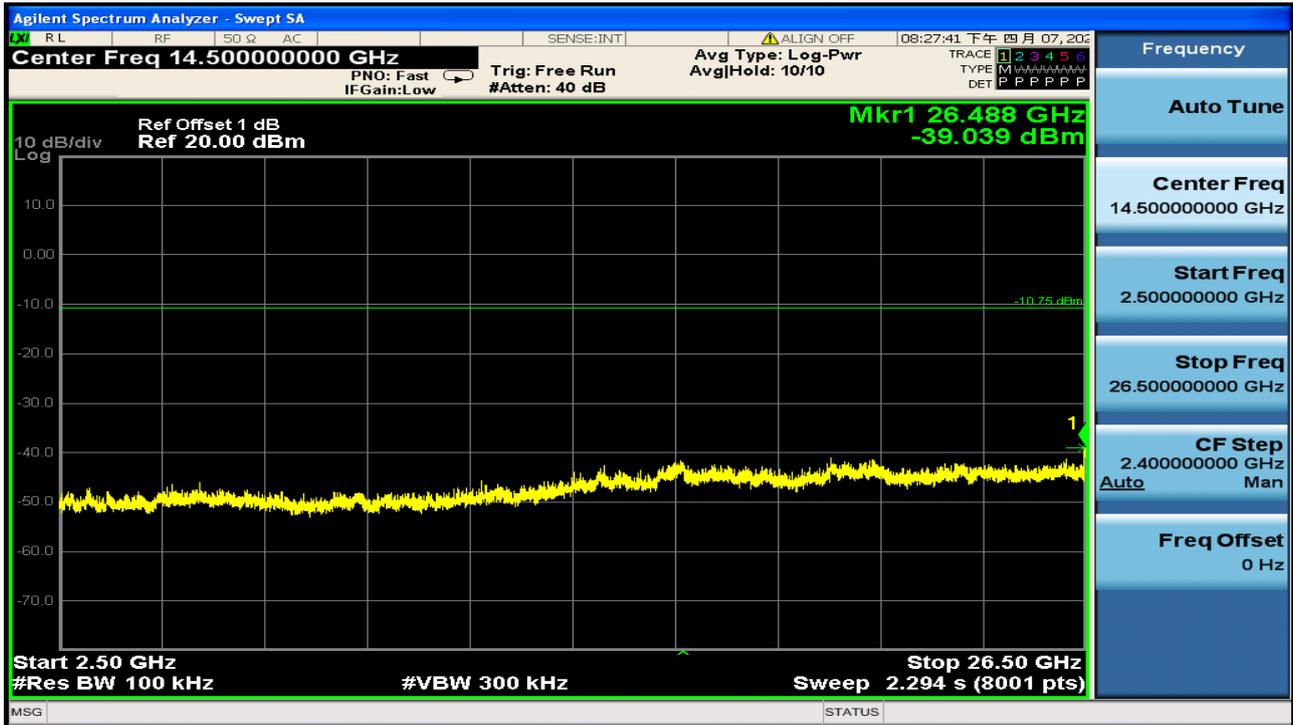
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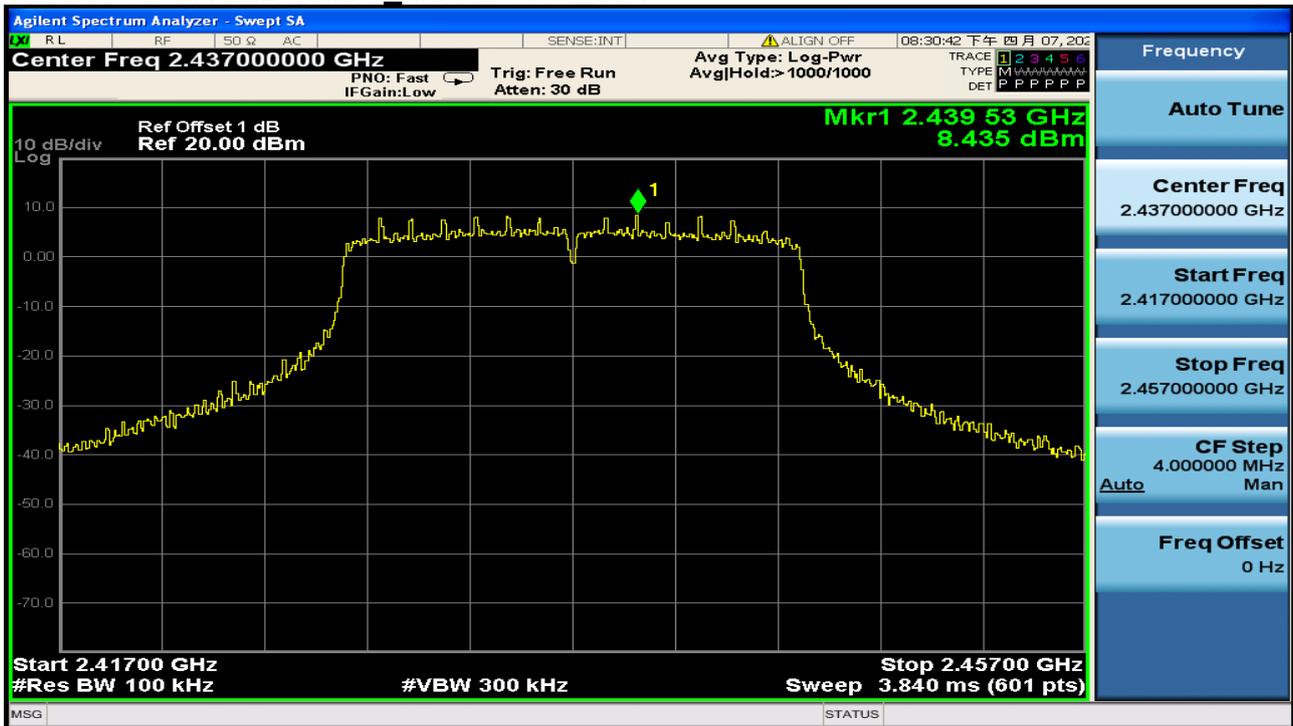


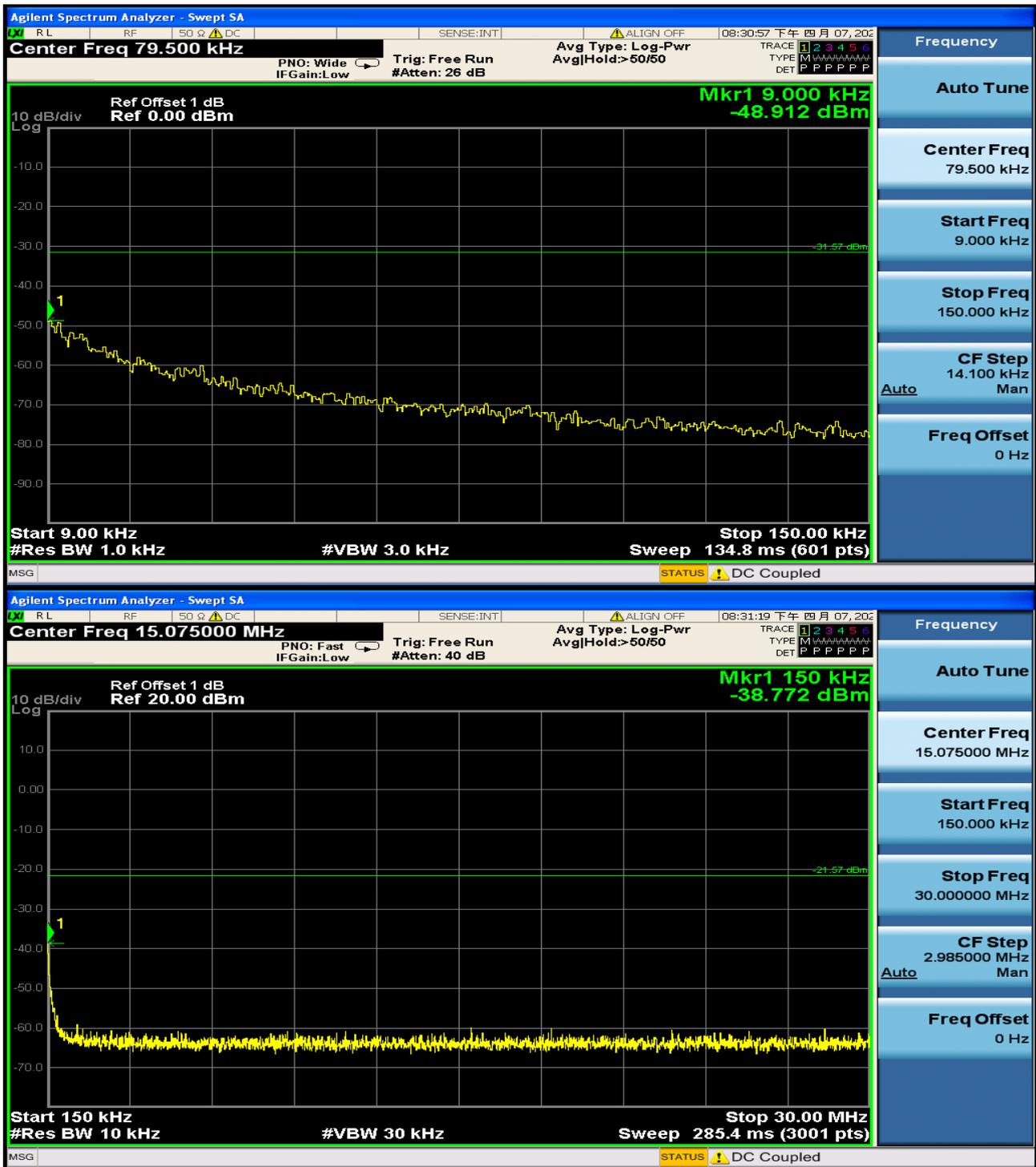
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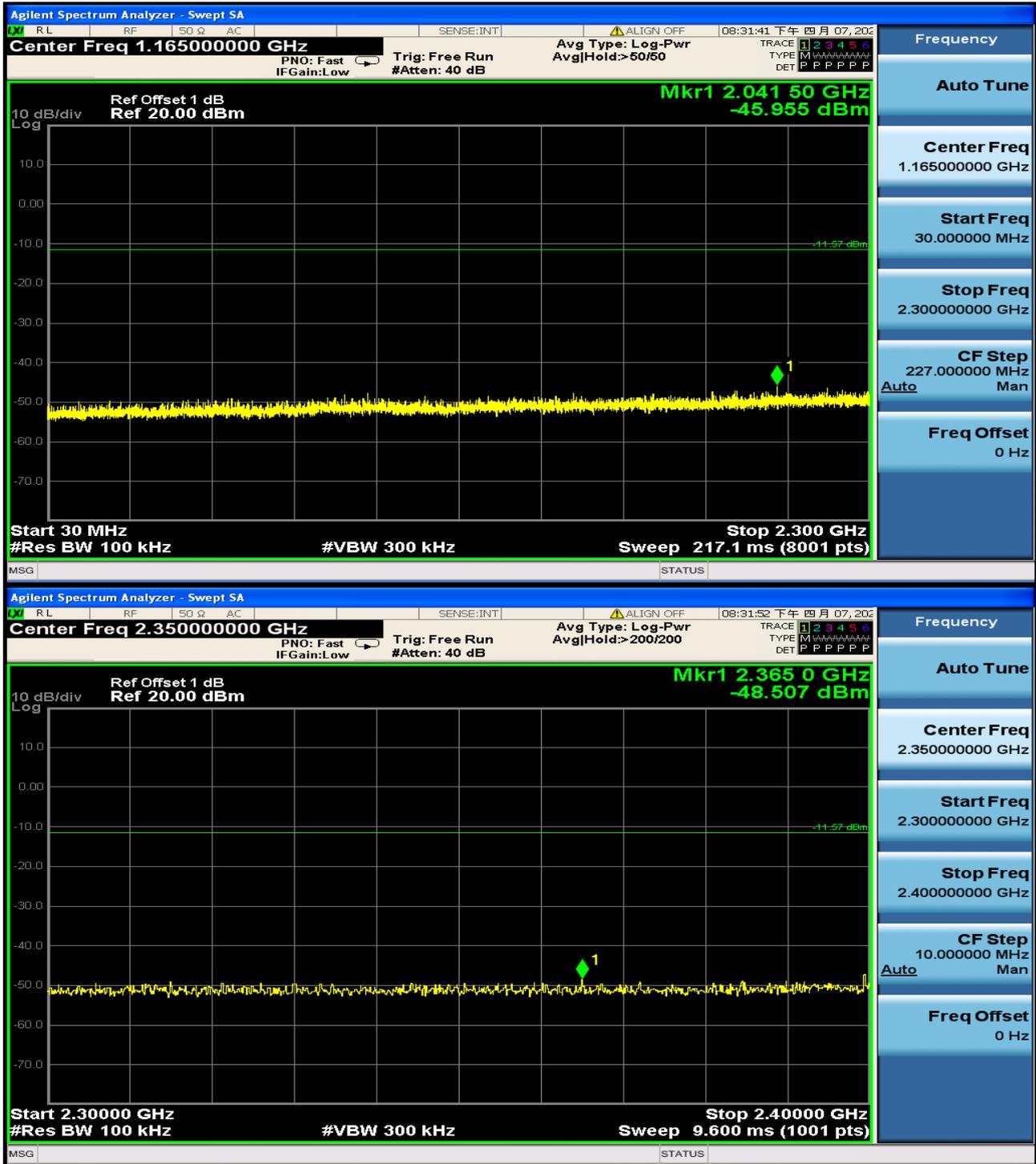
4.8.1.1.8 802.11N20MIMO_Middle Channel





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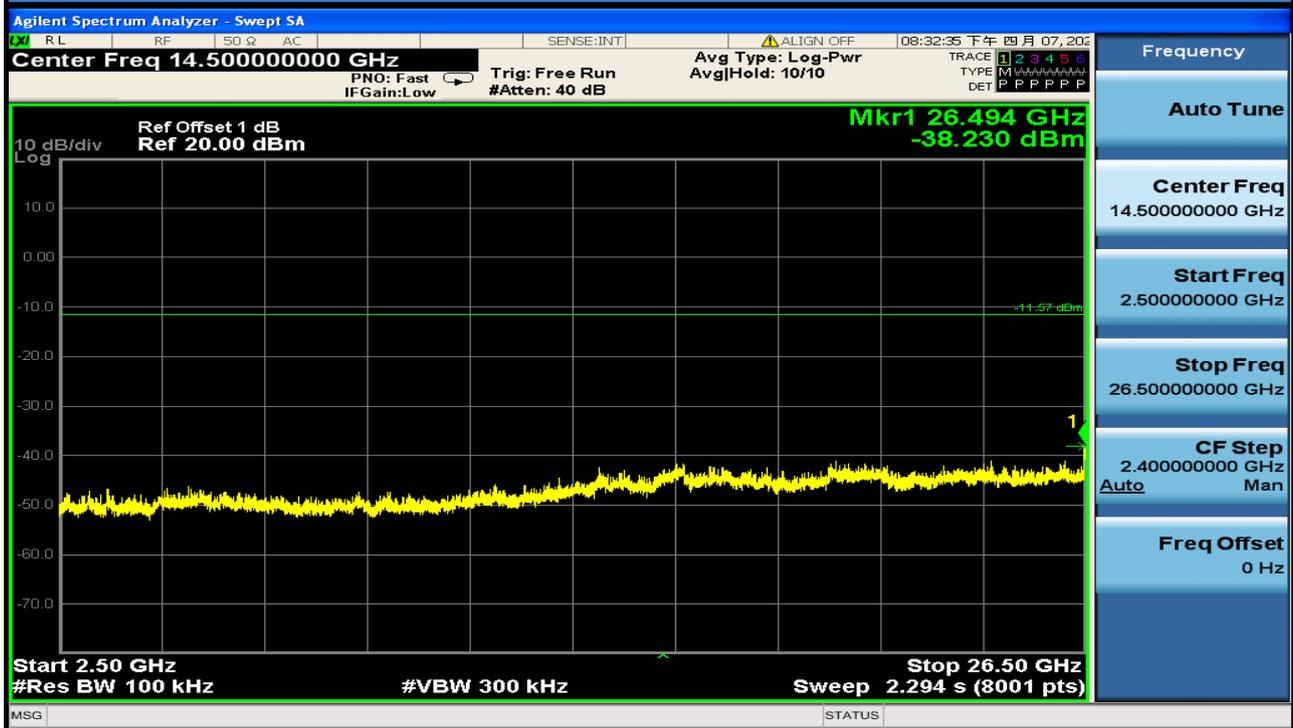
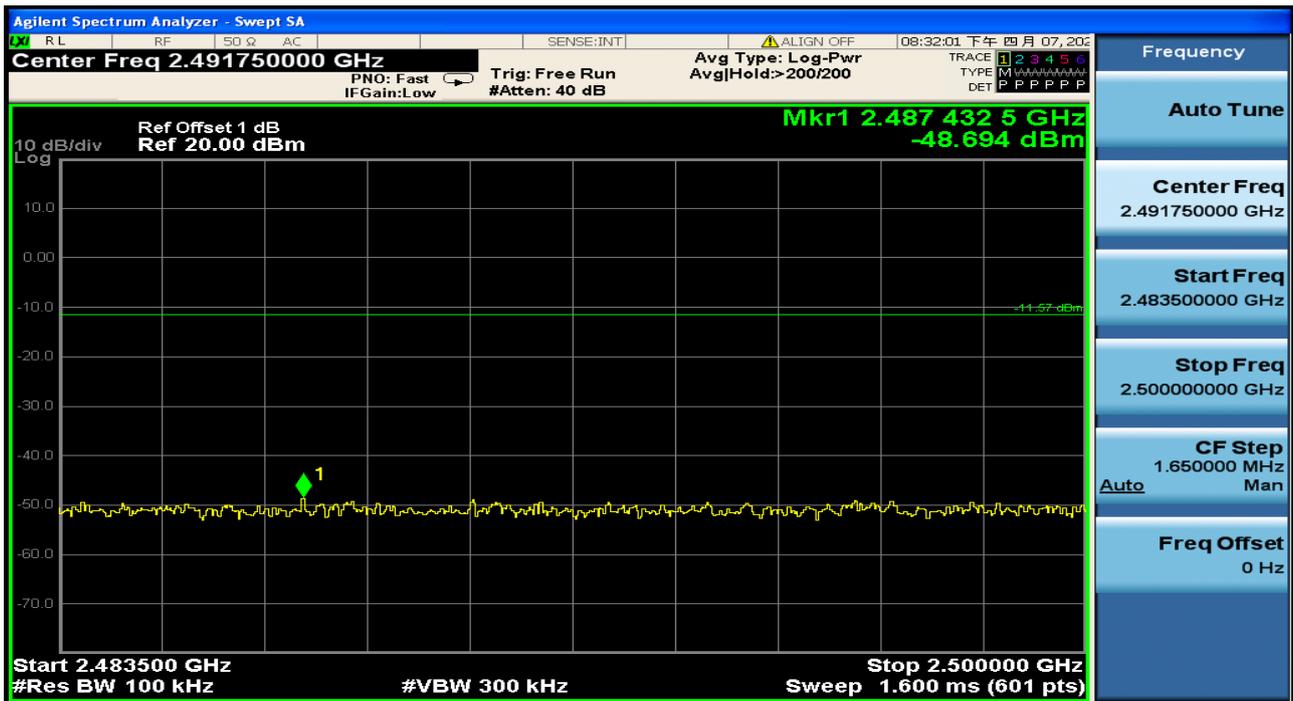
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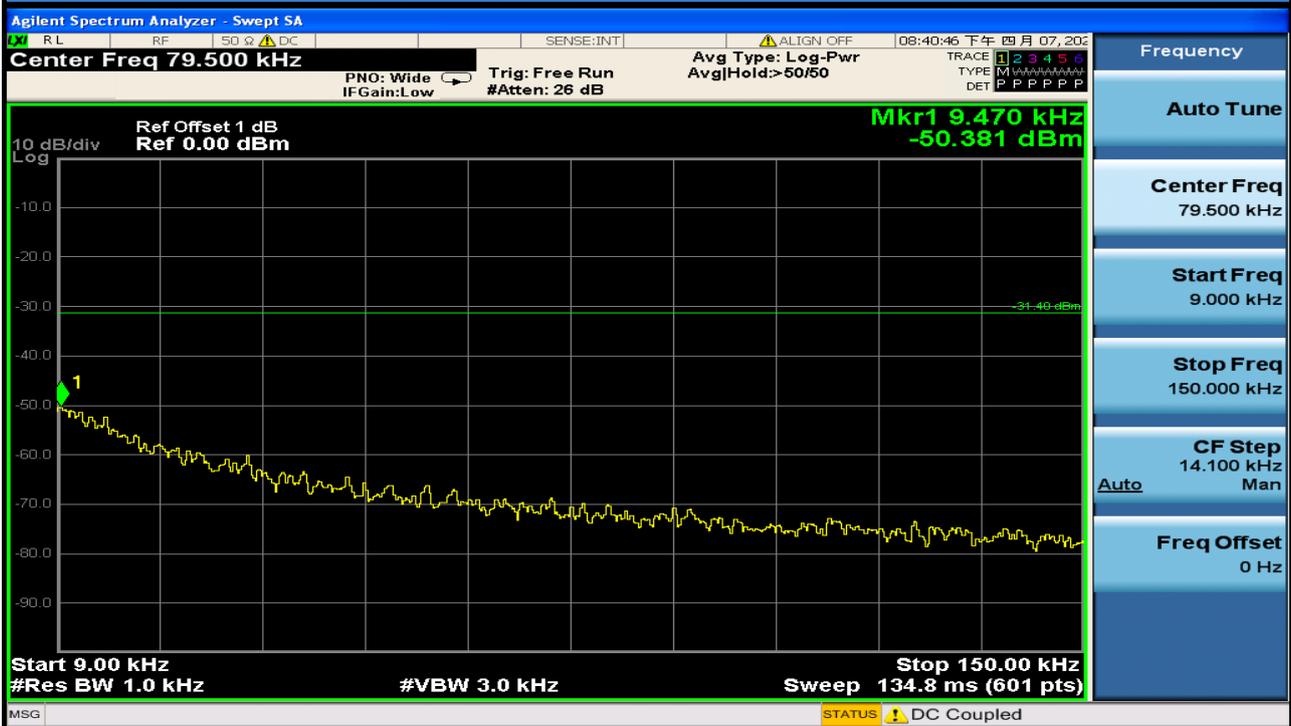
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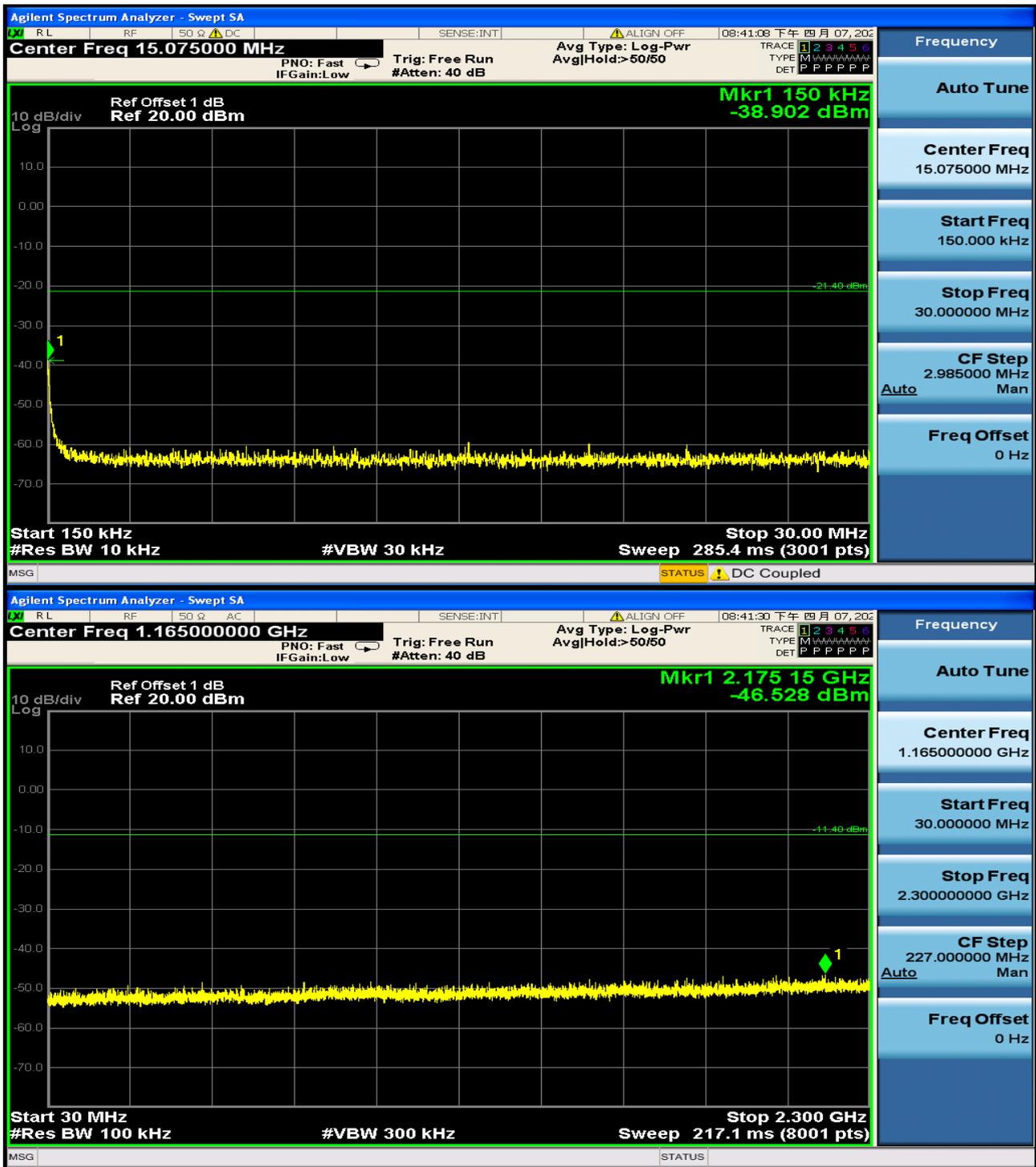
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4.8.1.1.9 802.11N20MIMO Highest Channel



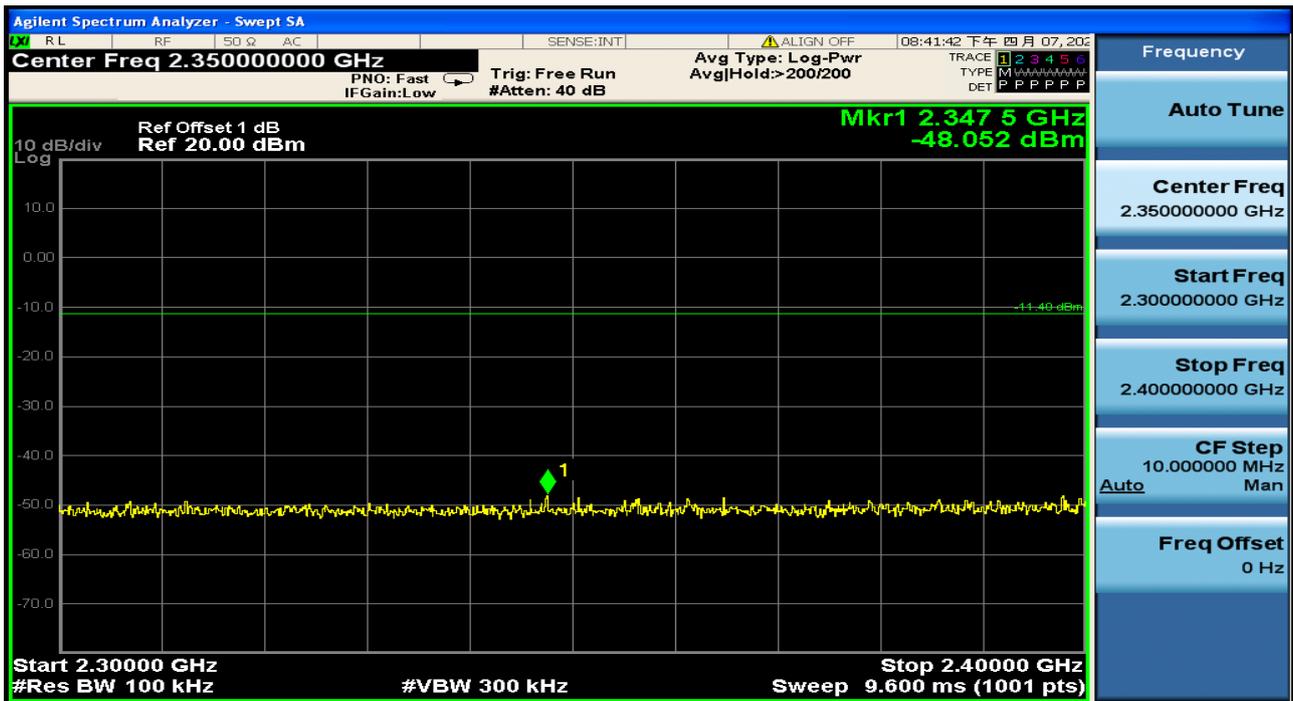
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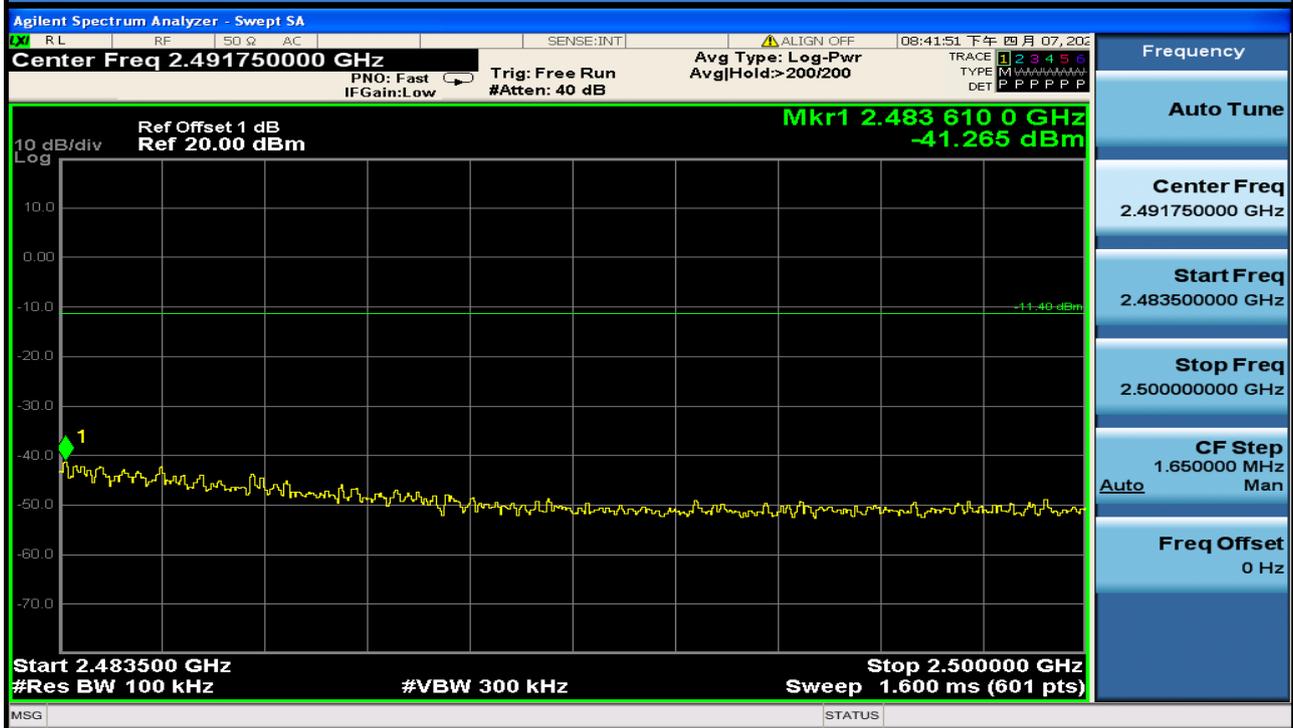


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Frequency
Auto Tune
Center Freq 2.35000000 GHz
Start Freq 2.30000000 GHz
Stop Freq 2.40000000 GHz
CF Step 10.000000 MHz Auto
Freq Offset 0 Hz

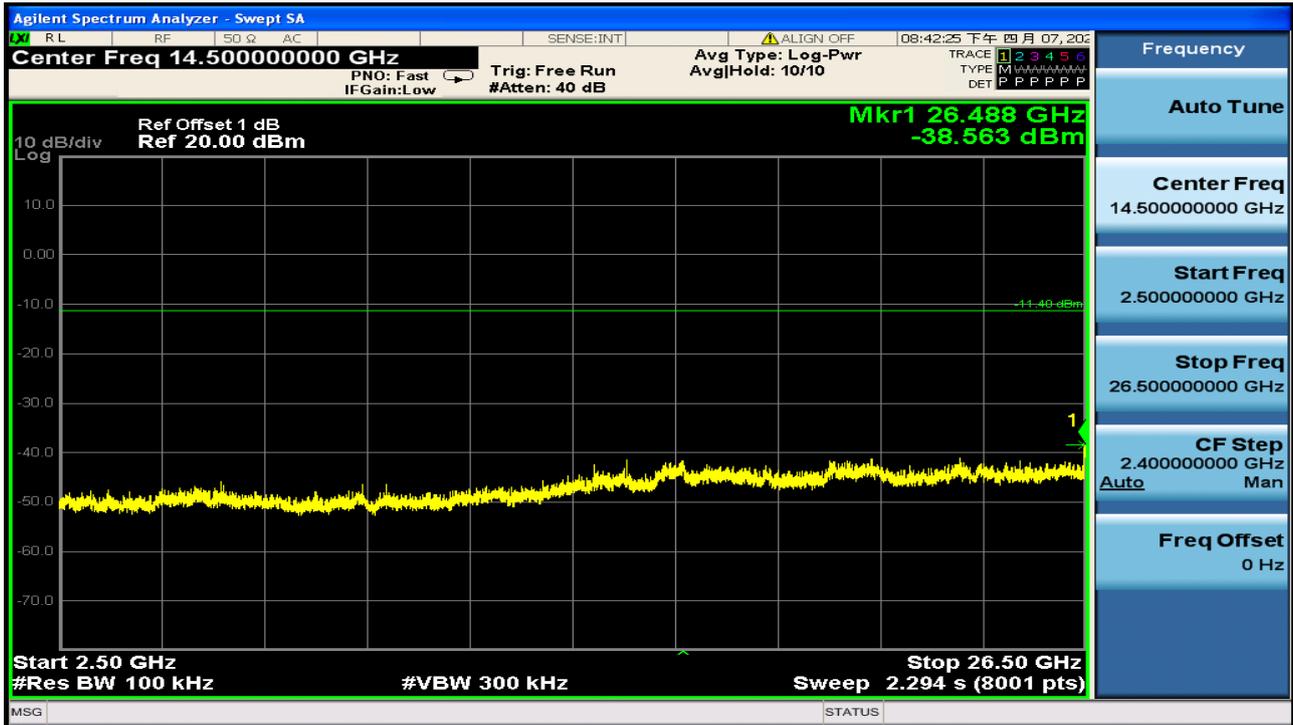


Frequency
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Start Freq 2.48350000 GHz
Stop Freq 2.50000000 GHz
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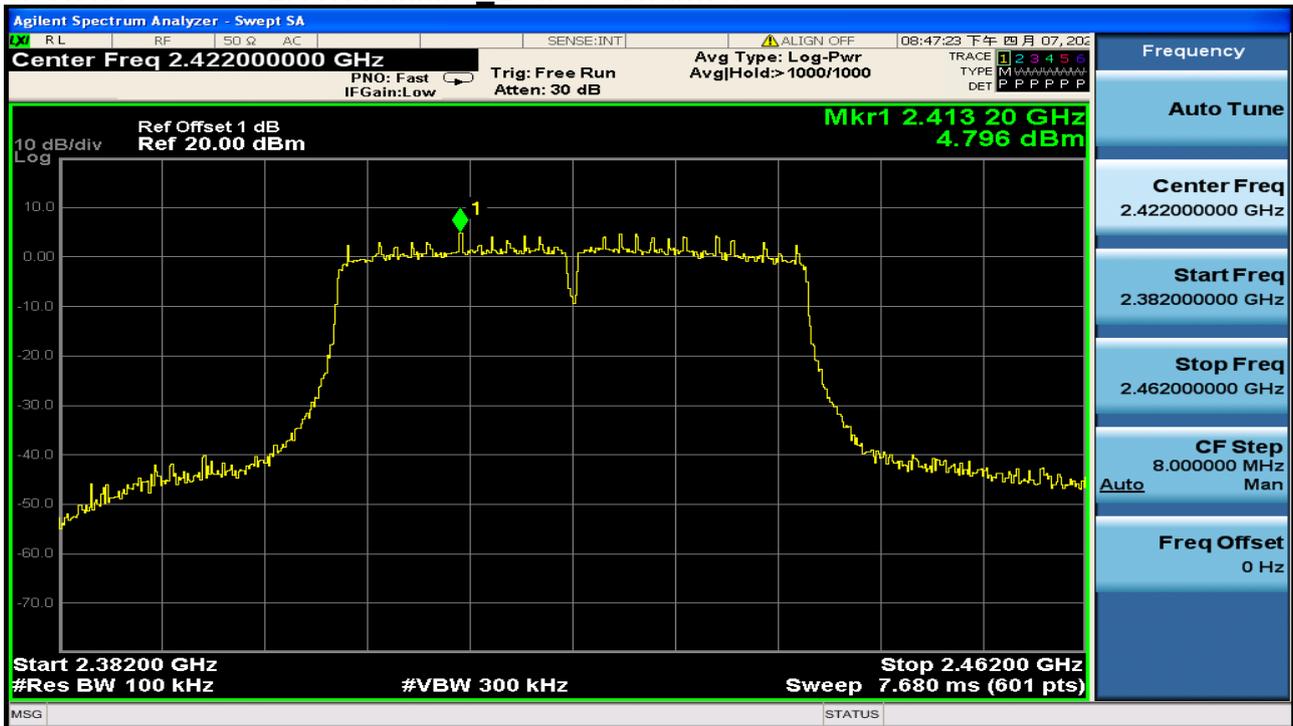


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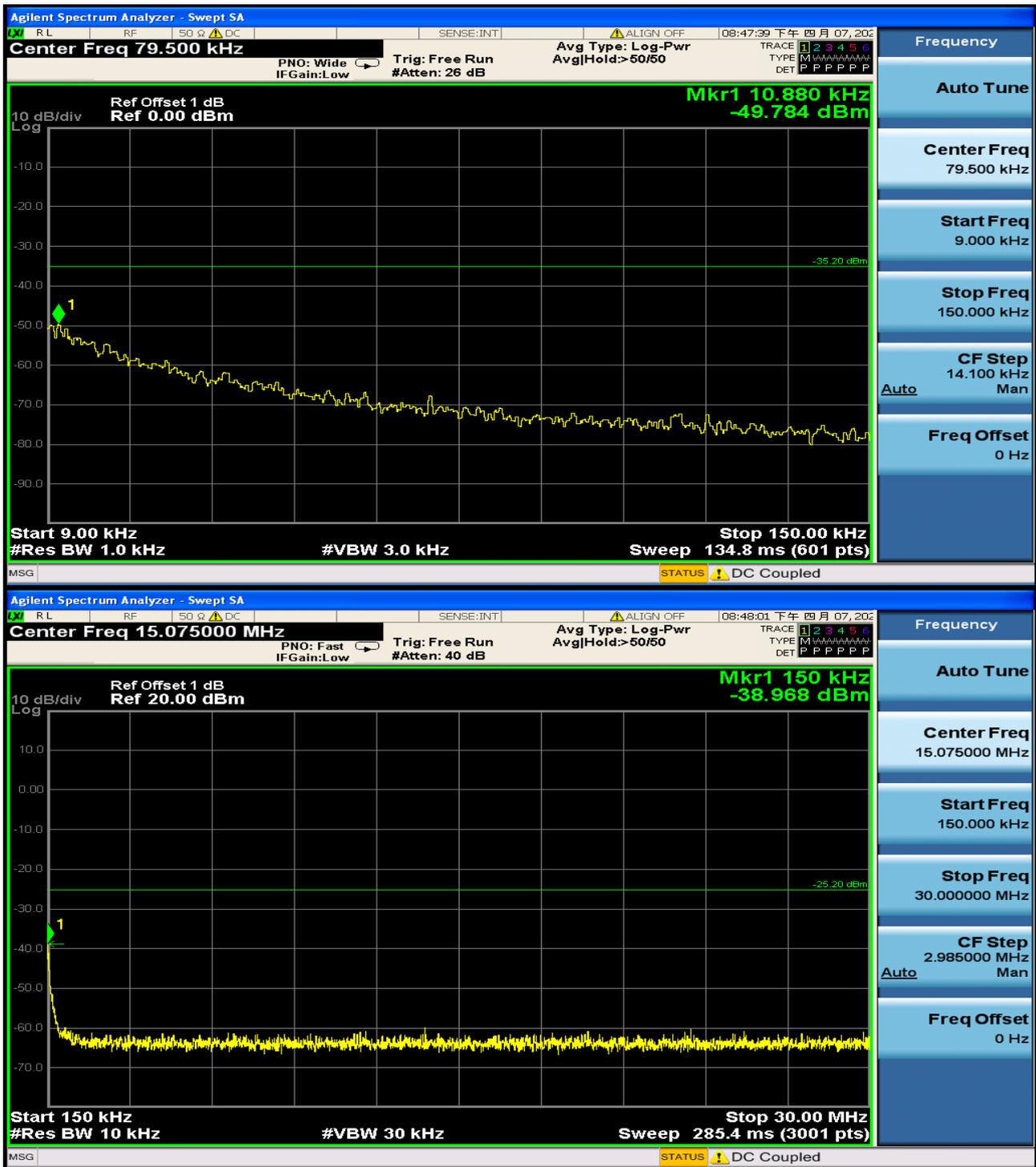


4.8.1.1.10 802.11N40MIMO Lowest Channel



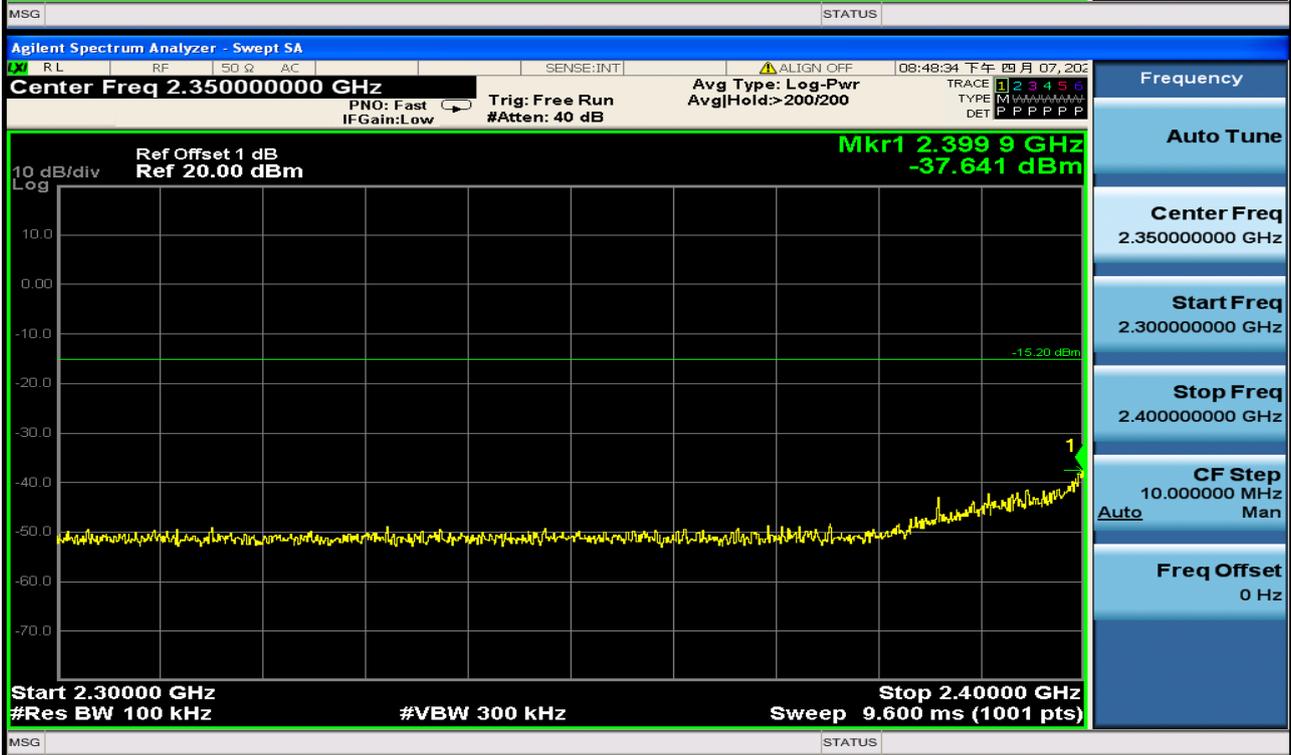
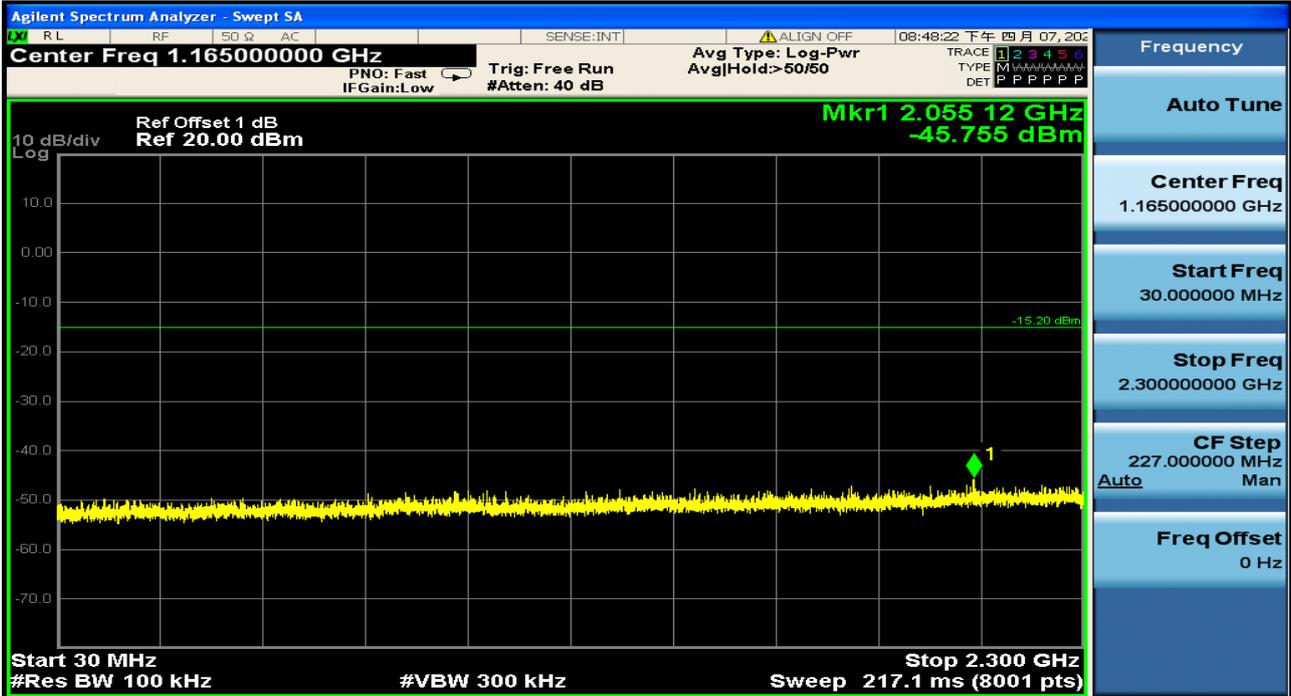
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