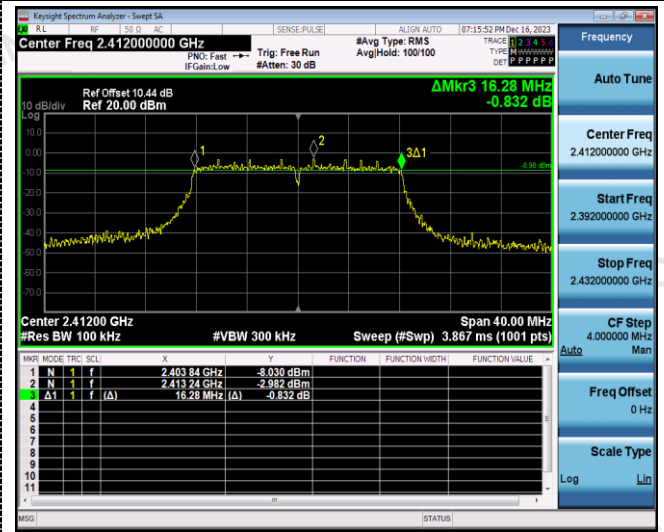


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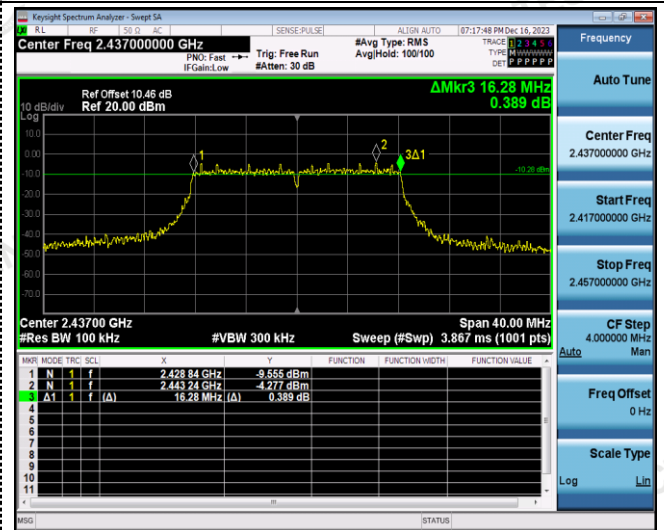
802.11b

802.11g



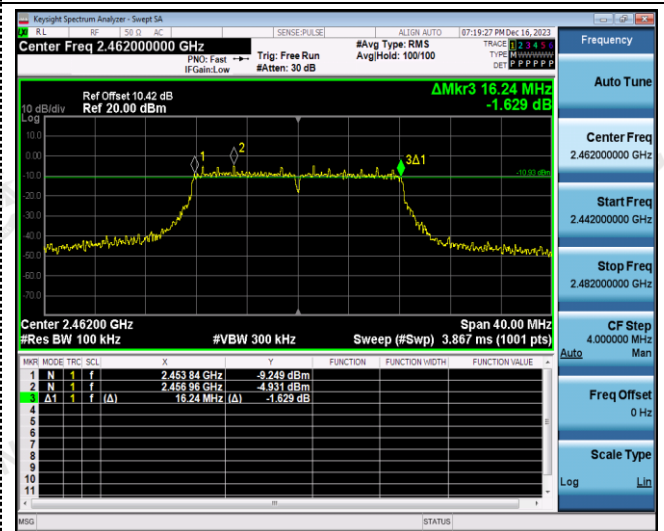
CH01

CH01



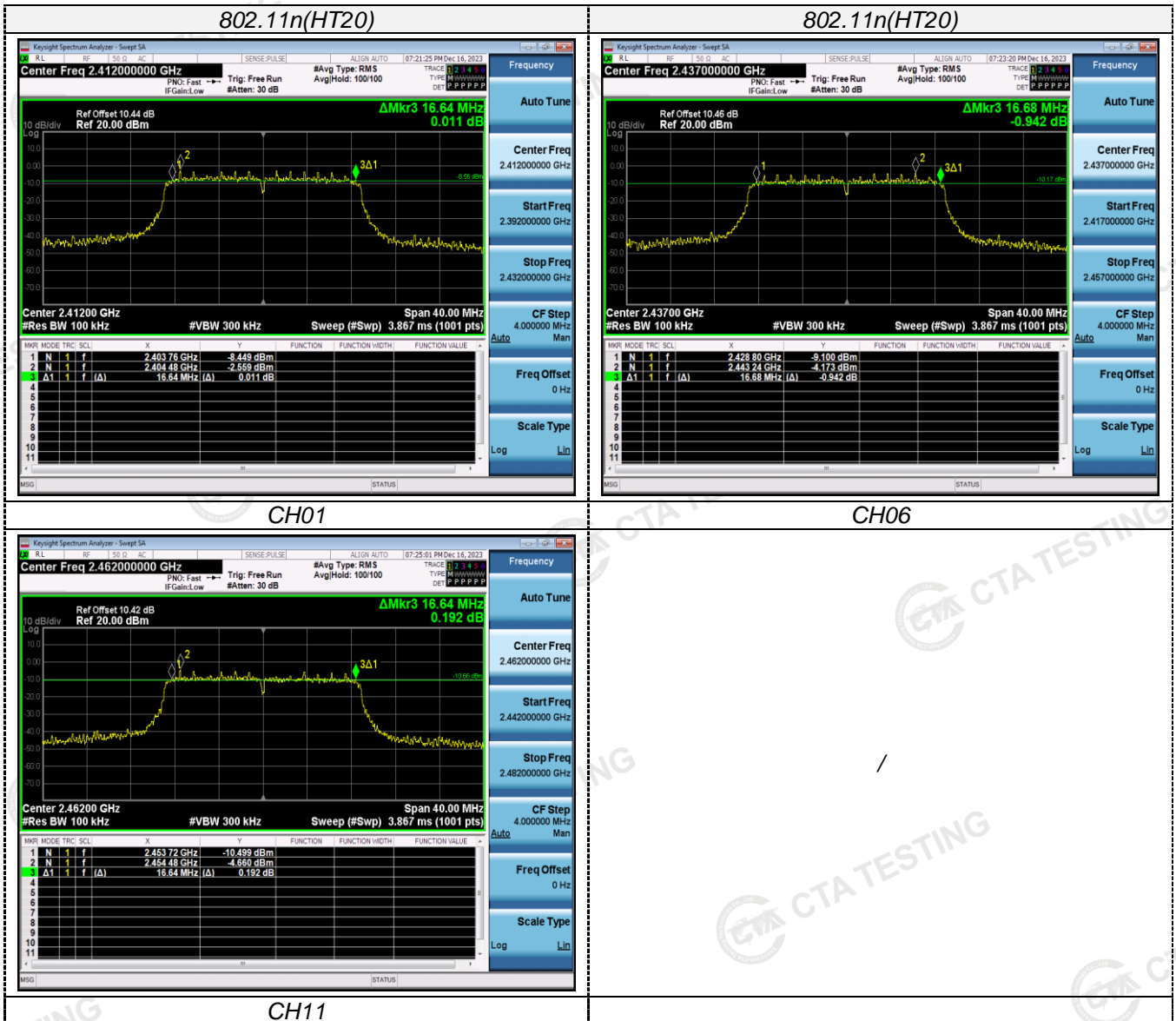
CH06

CH06



CH11

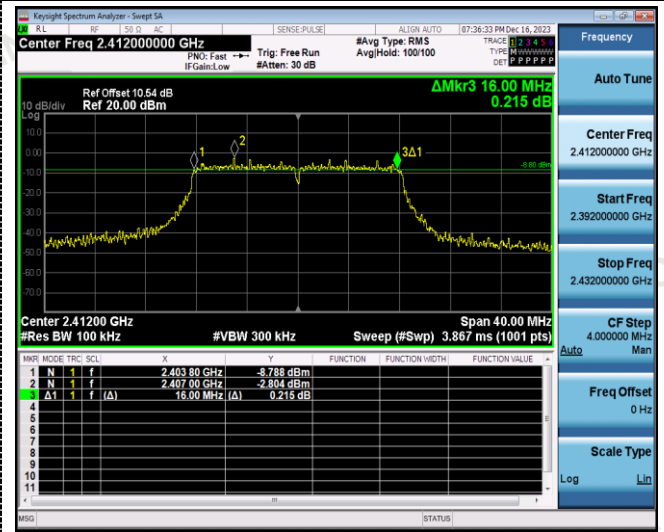
CH11



Ant 6:

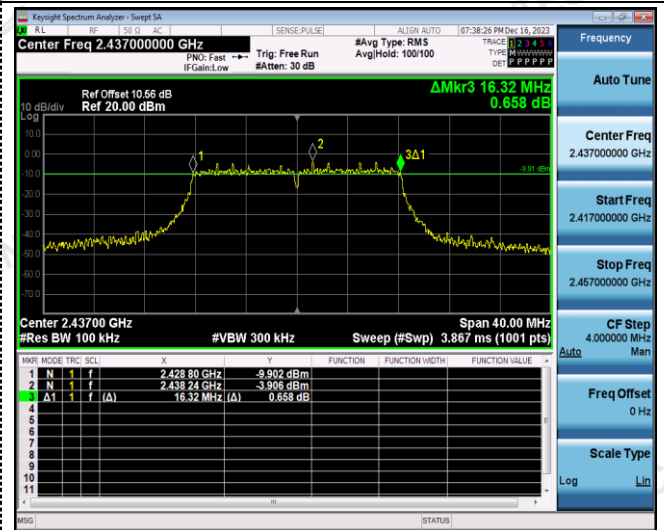
802.11b

802.11g



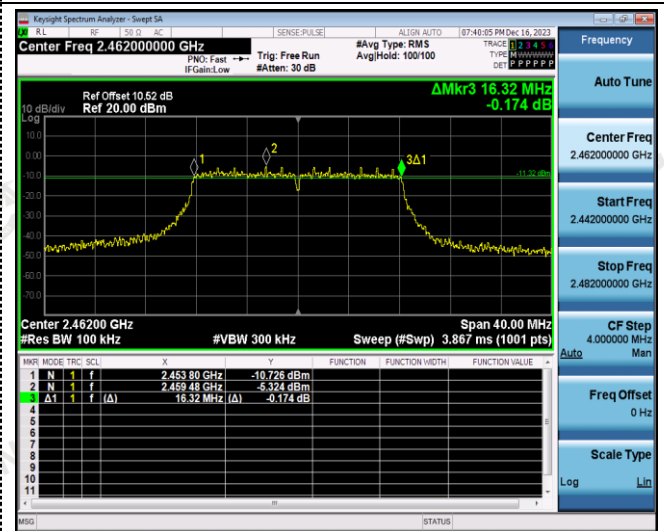
CH01

CH01



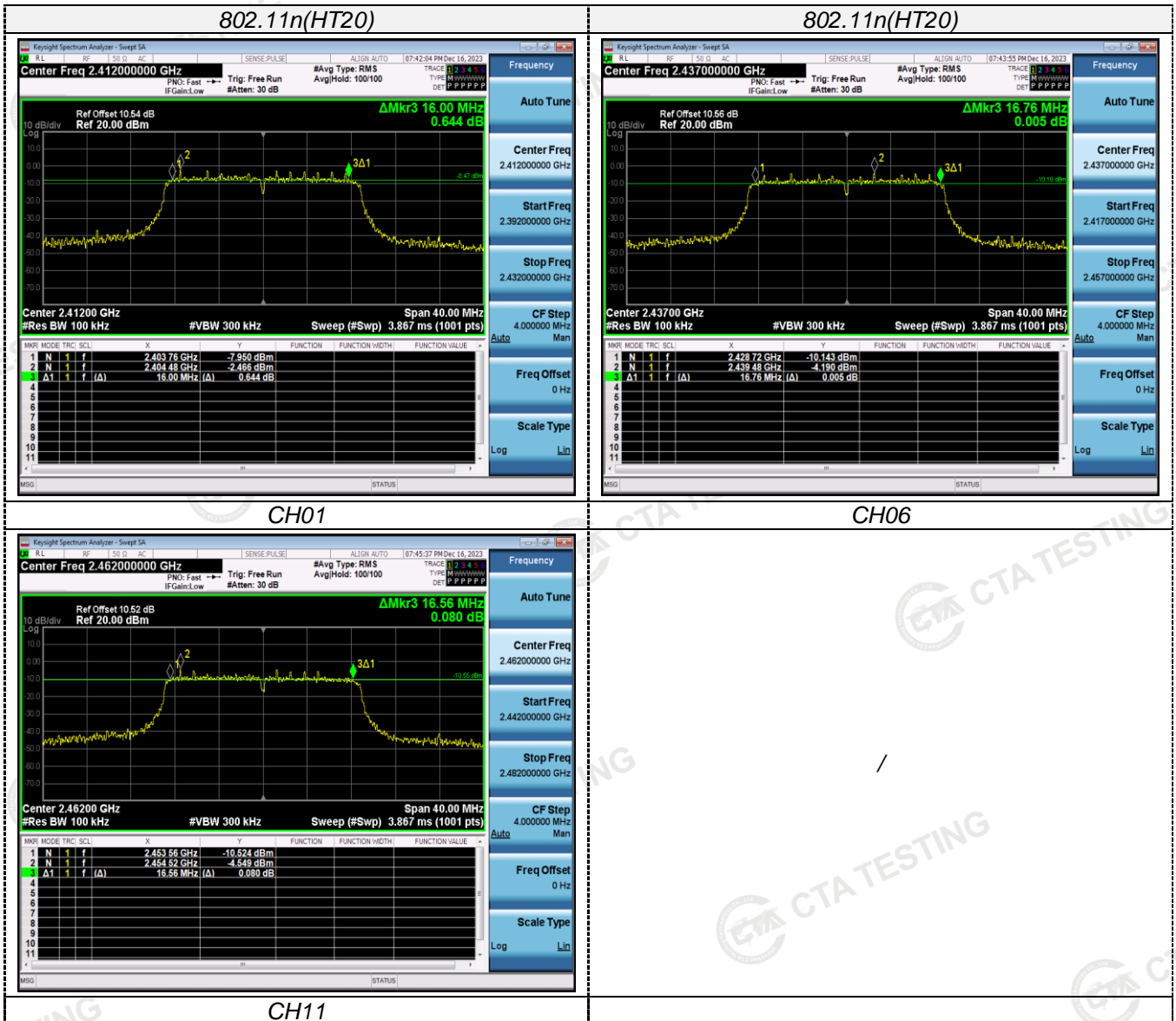
CH06

CH06



CH11

CH11



4.6 Out-of-band Emissions

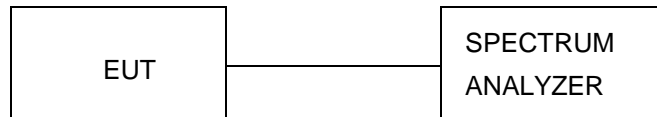
Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

Test Configuration



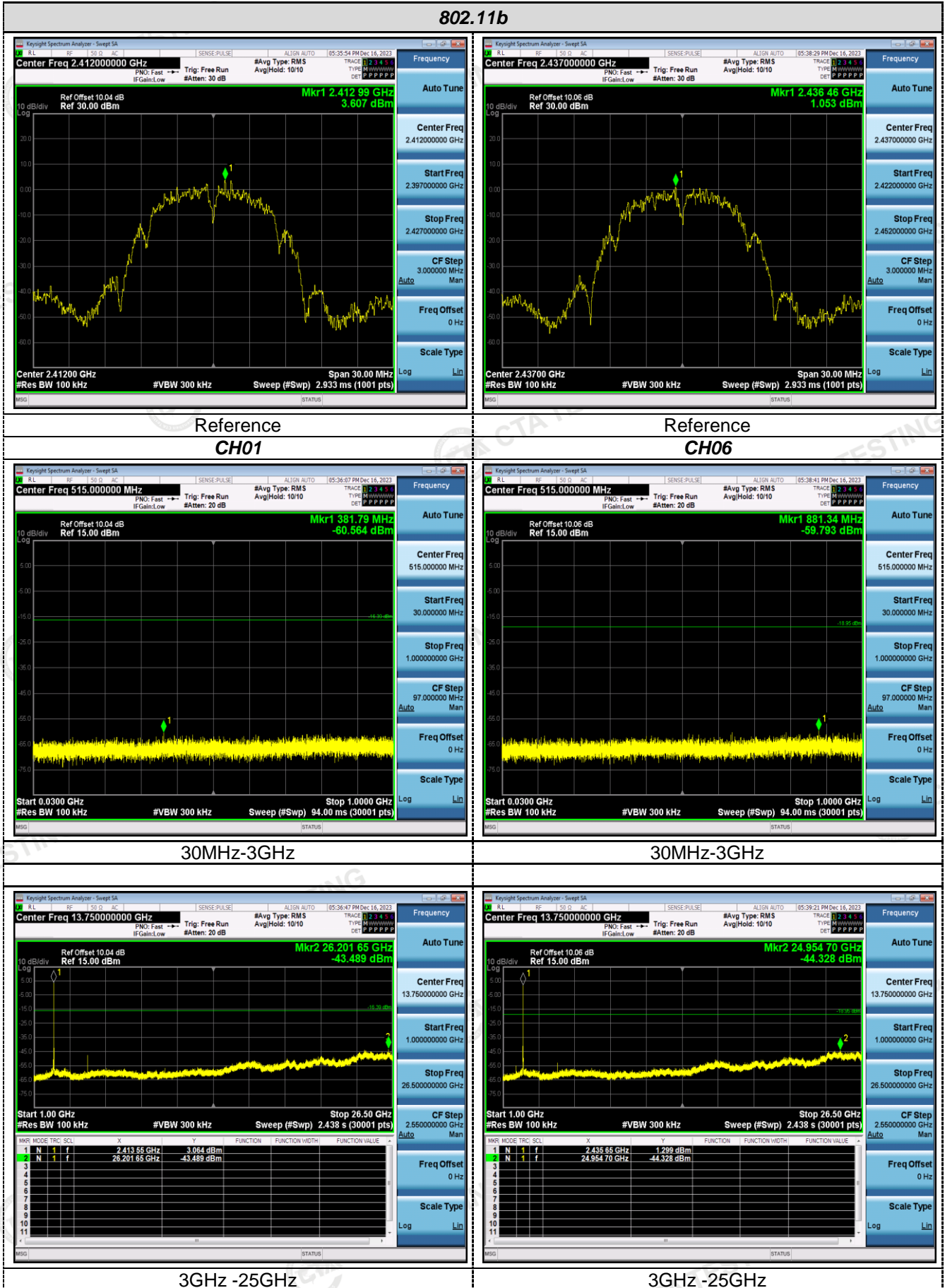
Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data. And record the worst data in the report.

Test plot as follows:

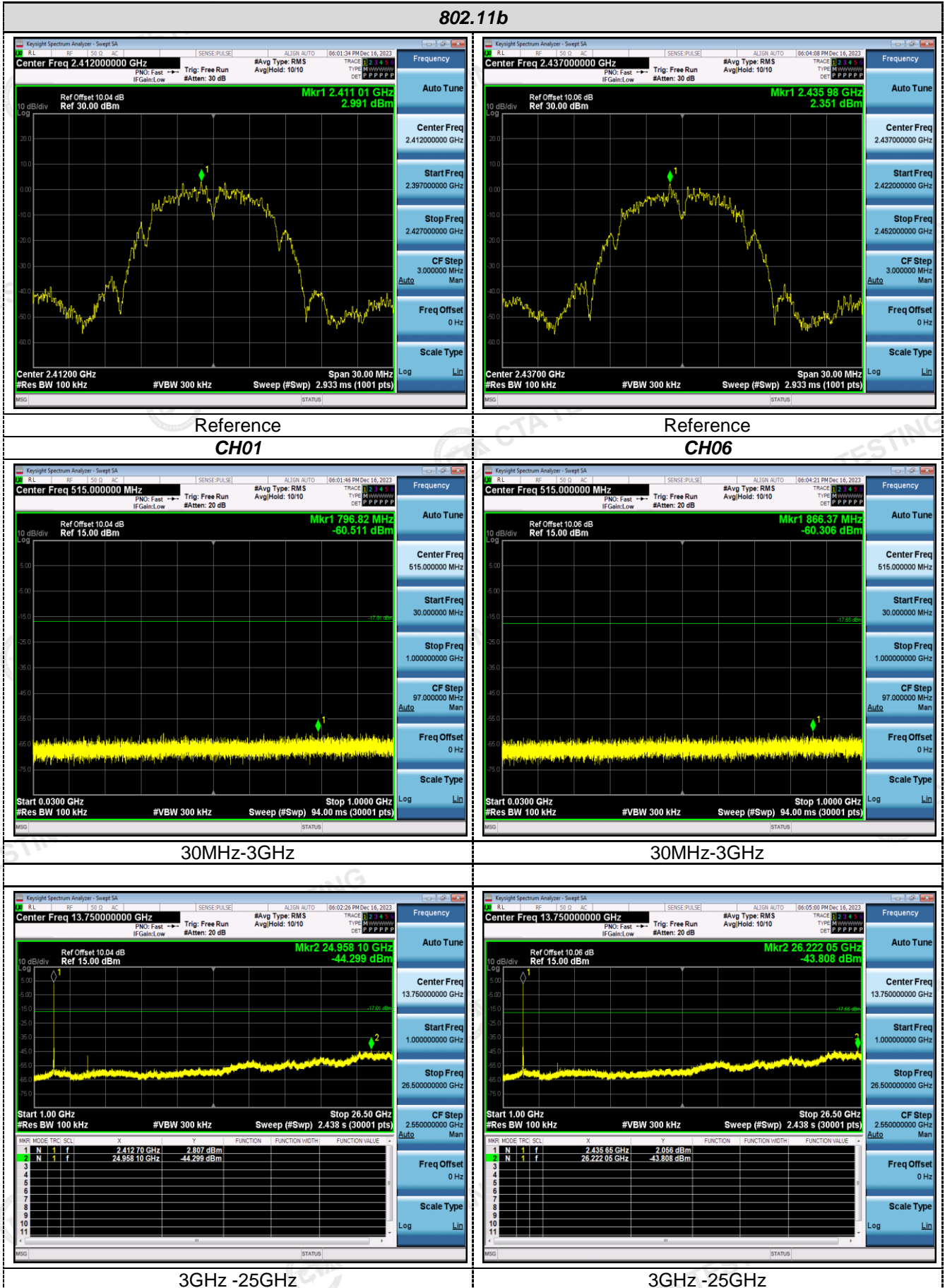
Note: 802.11b/802.11g/802.11n (H20) Mode and Ant1-6 all have been tested, and recorded ANT 1 11b the worst case as follow:

Ant 1:



<p style="text-align: center;">802.11b</p> <p>Center Freq 2.46200000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep (#Swp) 2.933 ms (1001 pts)</p>	<p style="text-align: center;">/</p>																											
<p style="text-align: center;">Reference CH011</p>	<p style="text-align: center;">/</p>																											
<p>Center Freq 515.000000 MHz #Res BW 100 kHz #VBW 300 kHz Sweep (#Swp) 94.00 ms (30001 pts)</p>	<p style="text-align: center;">/</p>																											
<p style="text-align: center;">30MHz-3GHz</p>	<p style="text-align: center;">/</p>																											
<p>Center Freq 13.75000000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep (#Swp) 2.438 s (30001 pts)</p> <table border="1"> <thead> <tr> <th>MNR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.462 85 GHz</td> <td>1.661 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>24.128 50 GHz</td> <td>-44.368 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MNR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.462 85 GHz	1.661 dBm				2	N	1	f	24.128 50 GHz	-44.368 dBm				<p style="text-align: center;">/</p>
MNR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
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2	N	1	f	24.128 50 GHz	-44.368 dBm																							
<p style="text-align: center;">3GHz -25GHz</p>	<p style="text-align: center;">/</p>																											

Ant 2:



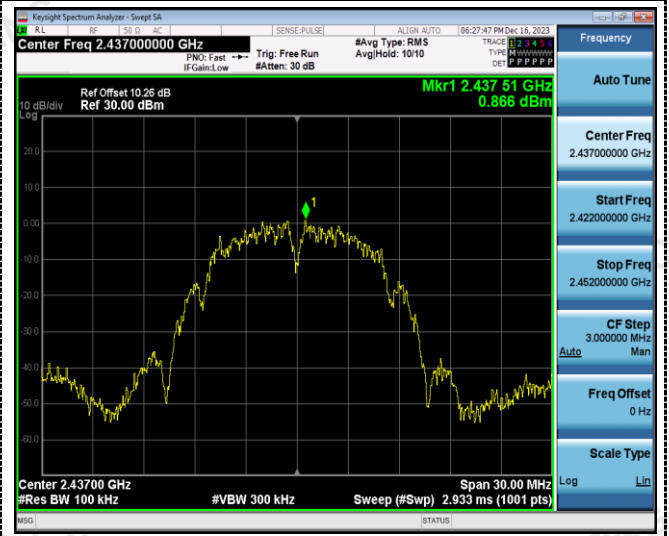
<p align="center">802.11b</p>	<p align="center">/</p>																											
	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.46200000 GHz</p> <p>Start Freq 2.44700000 GHz</p> <p>Stop Freq 2.47700000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p> <p>Scale Type Log</p>																											
<p align="center">Reference</p>	<p align="center">/</p>																											
<p align="center">CH011</p>	<p align="center">/</p>																											
	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Freq Offset 0 Hz</p> <p>Scale Type Log</p>																											
<p align="center">30MHz-3GHz</p>	<p align="center">/</p>																											
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MARK	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																				
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<p align="center">3GHz -25GHz</p>	<p align="center">/</p>																											

Ant 3:

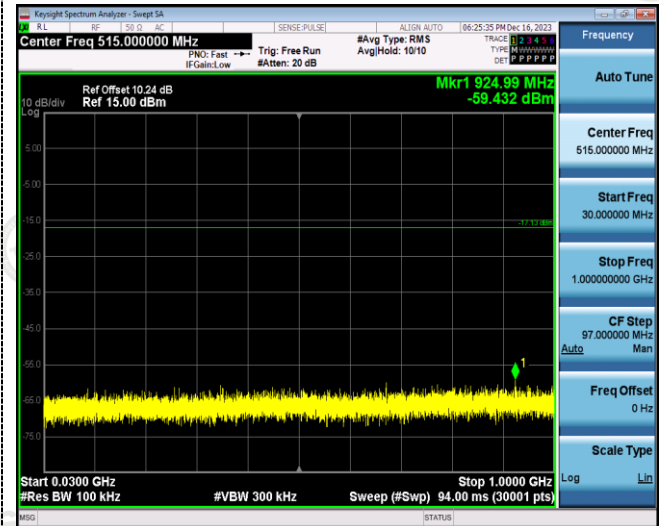
802.11b



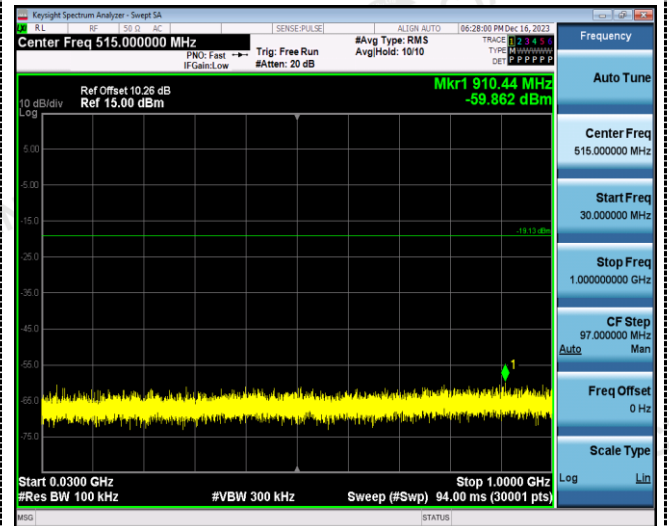
Reference
CH01



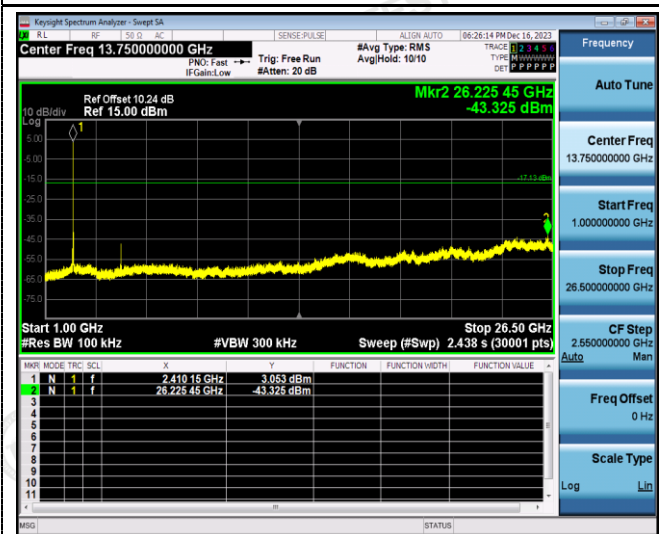
Reference
CH06



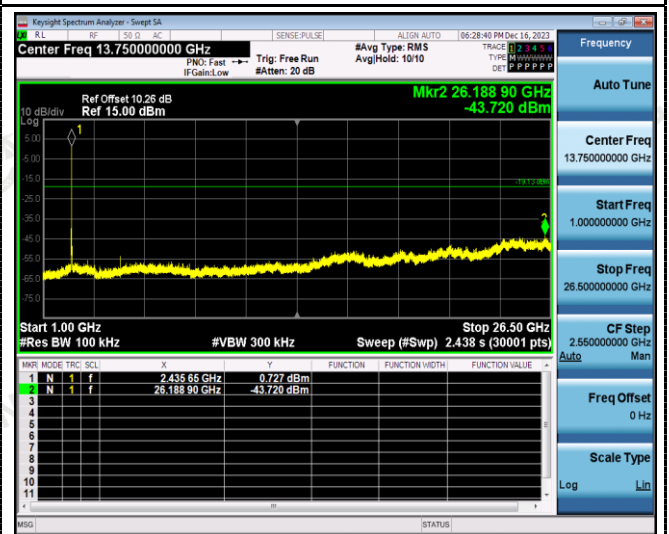
30MHz-3GHz



30MHz-3GHz



3GHz -25GHz



3GHz -25GHz