

## 7. Band Edge and Spurious Emissions (Conducted)

### 7.1. Block diagram of test setup

Same as section 4.1

### 7.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

### 7.3. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Establish a reference level by using the following procedure:
 

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold
- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

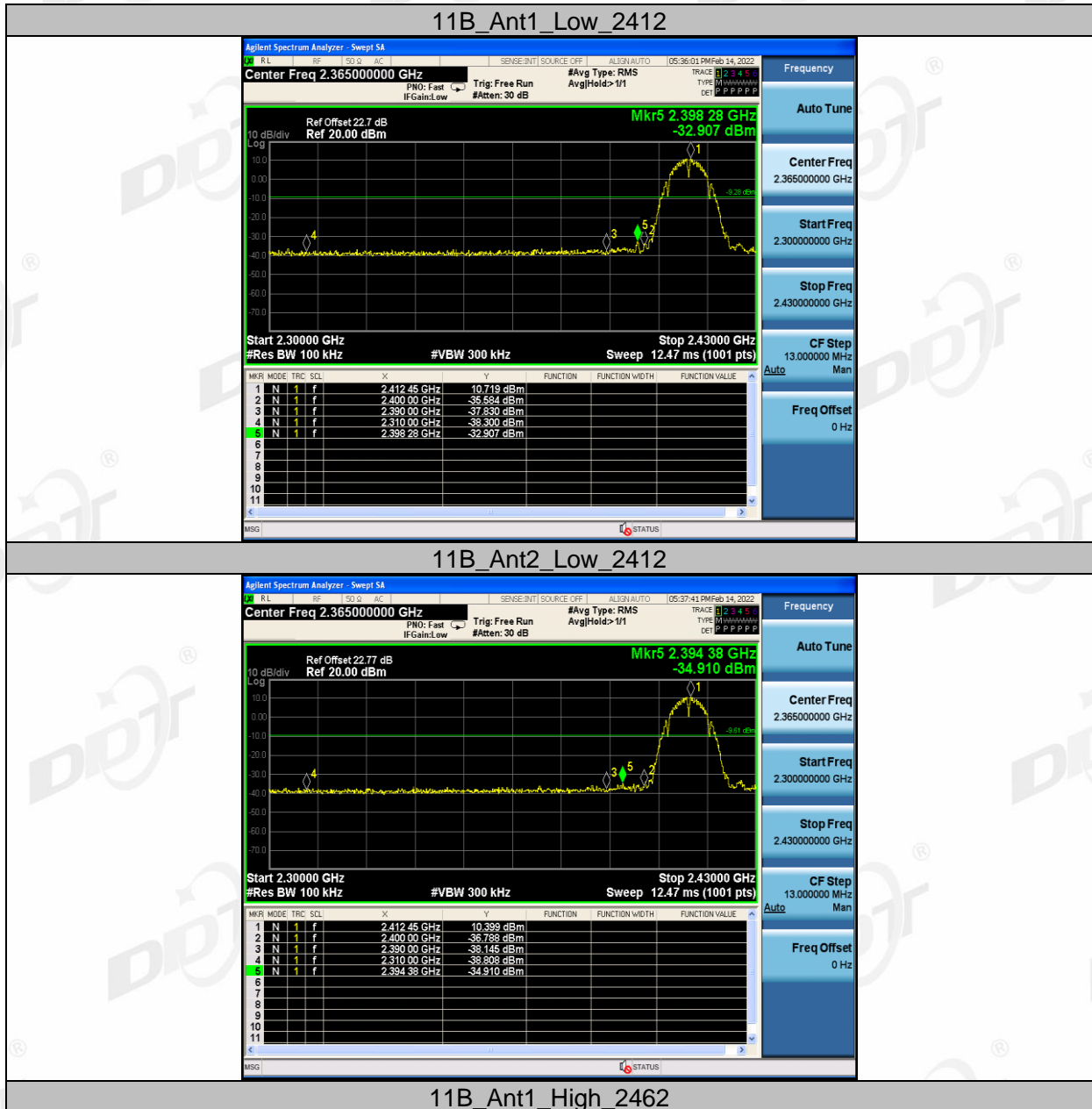
### 7.4. Test Result

EUT Set Mode	CH or Frequency	Result (dBm)	EUT Set Mode	CH or Frequency	Result Result (dBm)
11b	CH1	Pass	11g	CH1	Pass
	CH6	Pass		CH6	Pass
	CH11	Pass		CH11	Pass
11n HT 20	CH1	Pass	11n HT 40	CH3	Pass
	CH6	Pass		CH6	Pass
	CH11	Pass		CH9	Pass
11ax HE 20	CH1	Pass	11ax HE 40	CH3	Pass
	CH6	Pass		CH6	Pass
	CH11	Pass		CH9	Pass

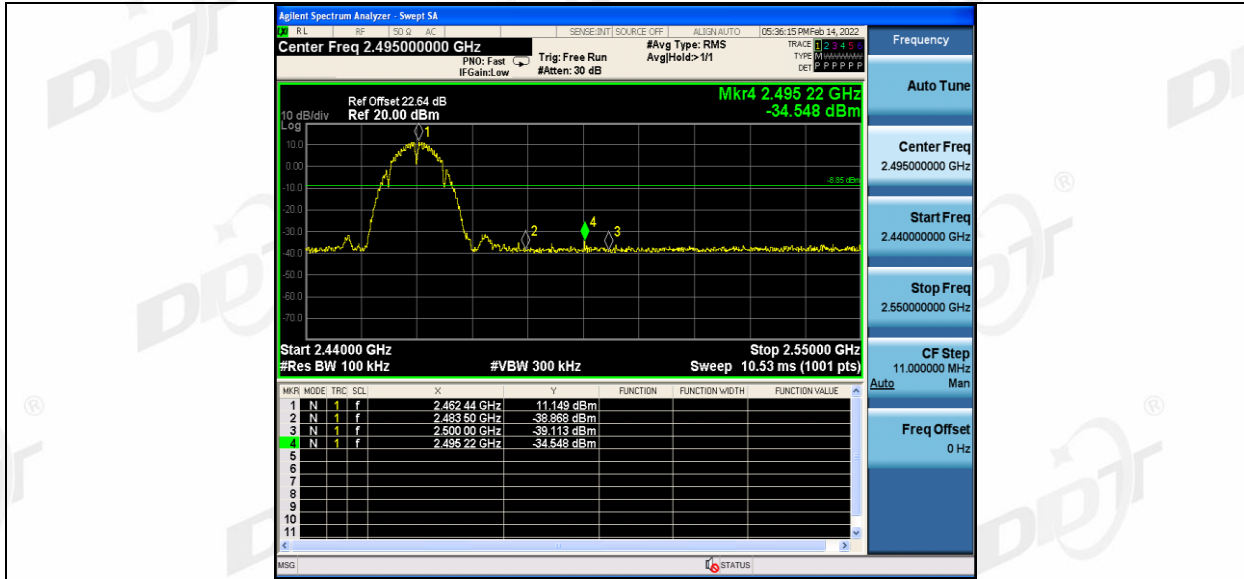
Note: for 802.11ax mode, according exploratory explorer test, Specific Resource Unit have no distinct influence, so the final test data only record the Worst Case.

### 7.5. Original test data

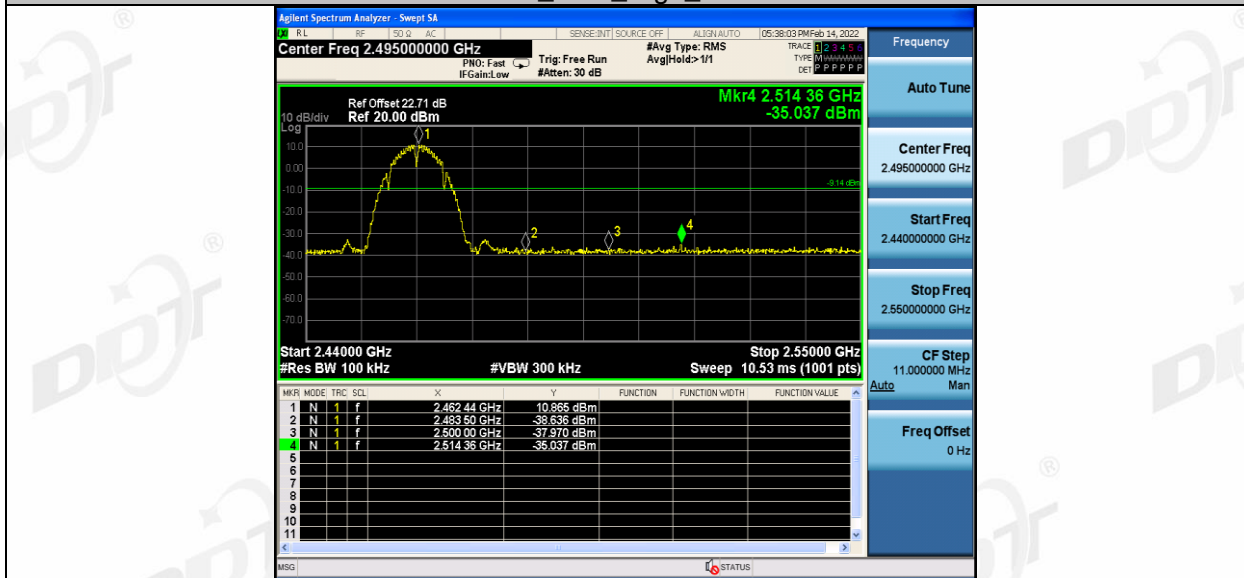
#### Band Edge



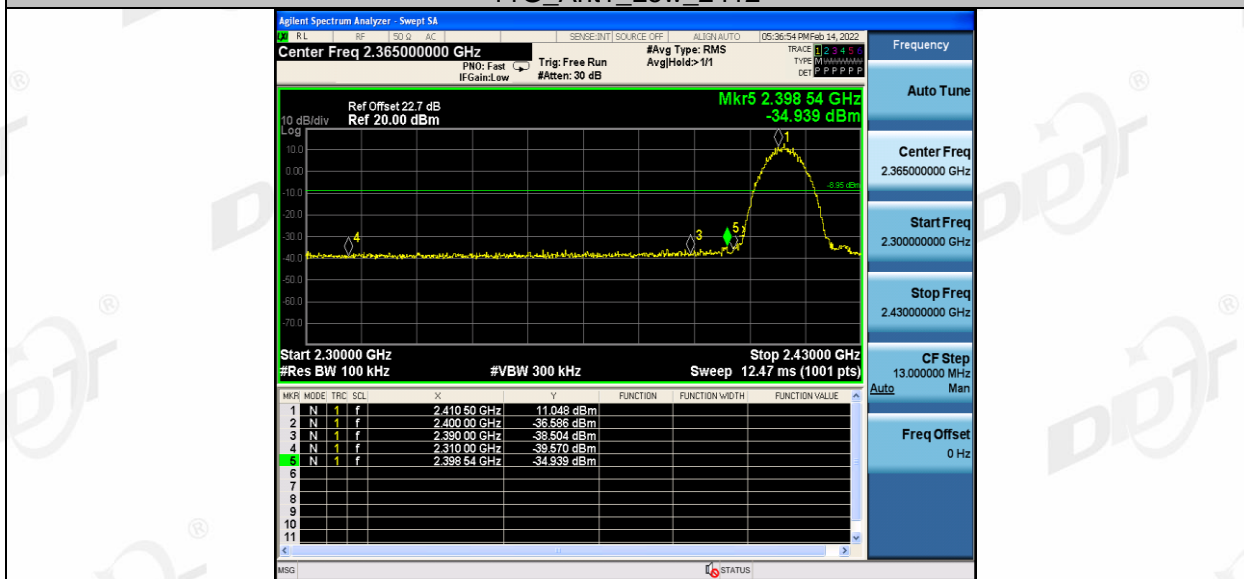
11B\_Ant1\_High\_2462



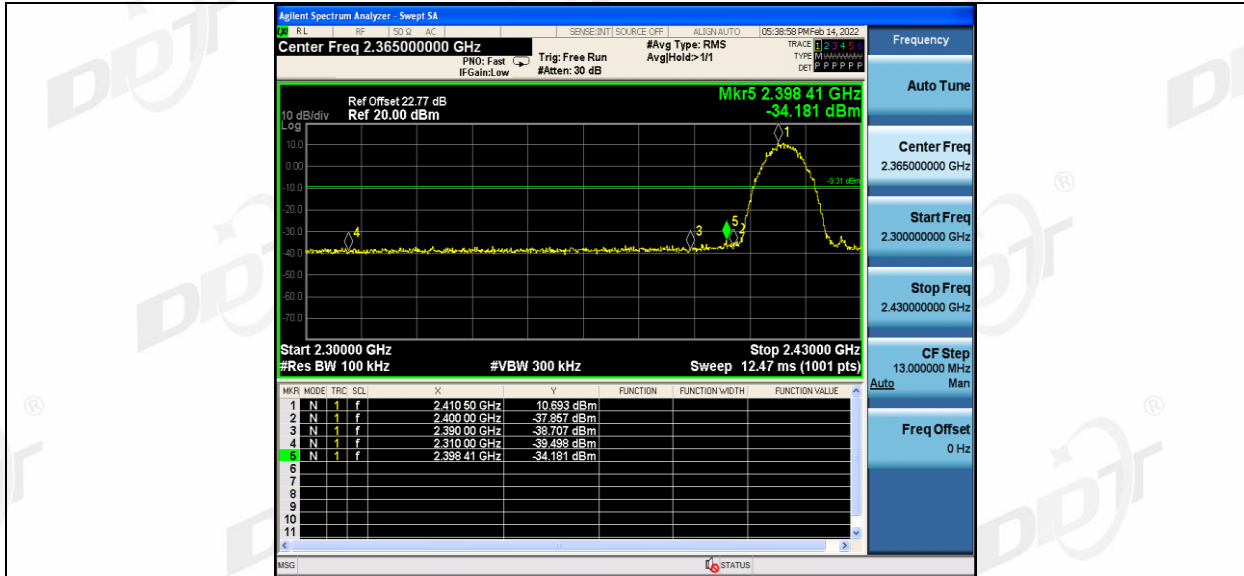
11B\_Ant2\_High\_2462



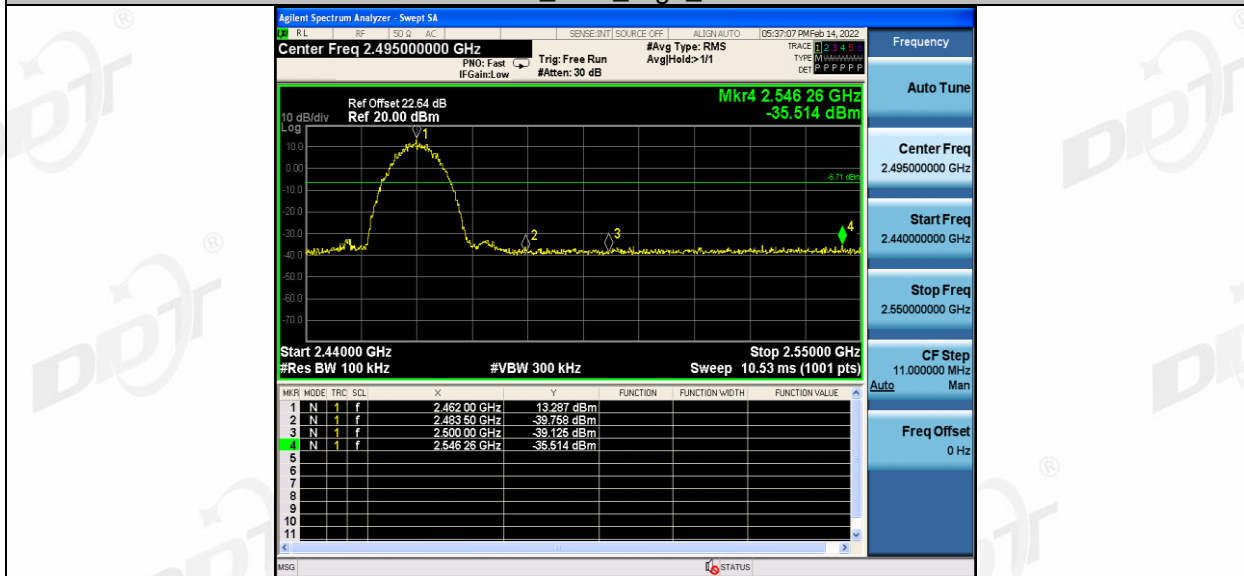
11G\_Ant1\_Low\_2412



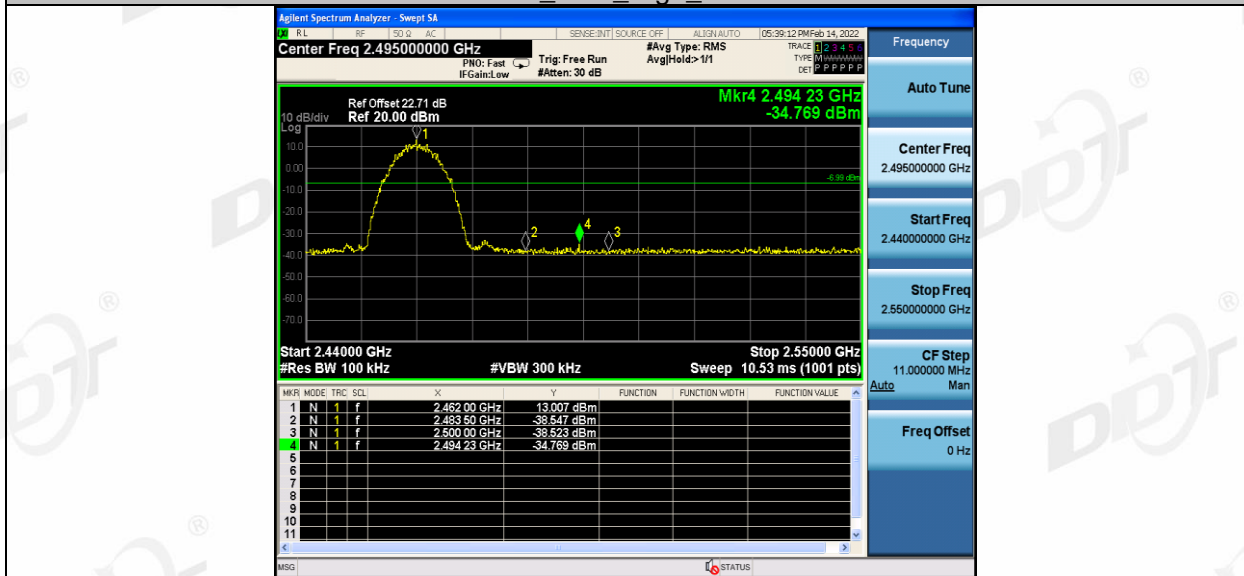
11G\_Ant2\_Low\_2412



11G\_Ant1\_High\_2462



11G\_Ant2\_High\_2462



11N20MIMO\_Ant1\_Low\_2412



11N20MIMO\_Ant2\_Low\_2412



11N20MIMO\_Ant1\_High\_2462



11N20MIMO\_Ant2\_High\_2462



11N40MIMO\_Ant1\_Low\_2422



11N40MIMO\_Ant2\_Low\_2422



11N40MIMO\_Ant1\_High\_2452



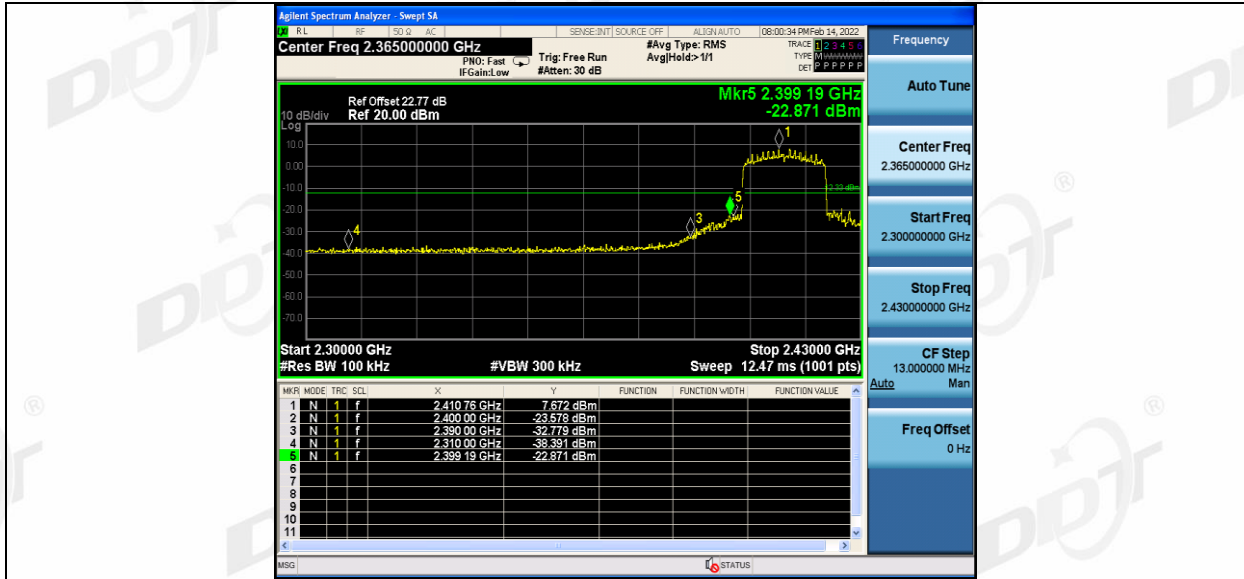
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11AX20SU\_Ant1\_Low\_2412



11AX20SU\_Ant2\_Low\_2412



11AX20SU\_Ant1\_High\_2462



11AX20SU\_Ant2\_High\_2462



11AX40SU\_Ant1\_Low\_2422





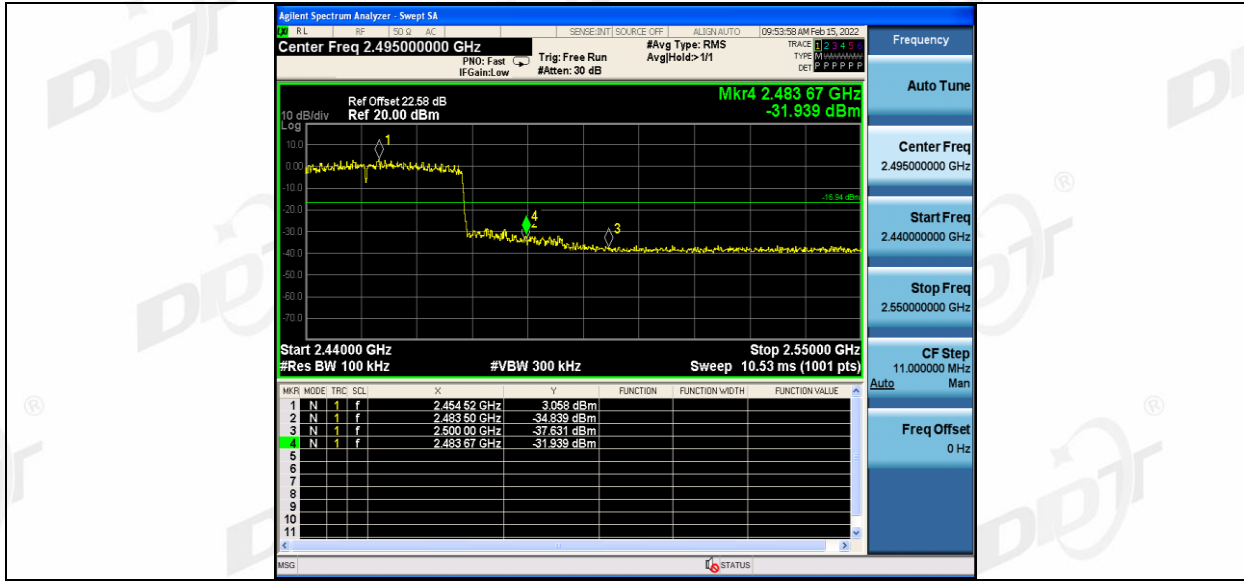
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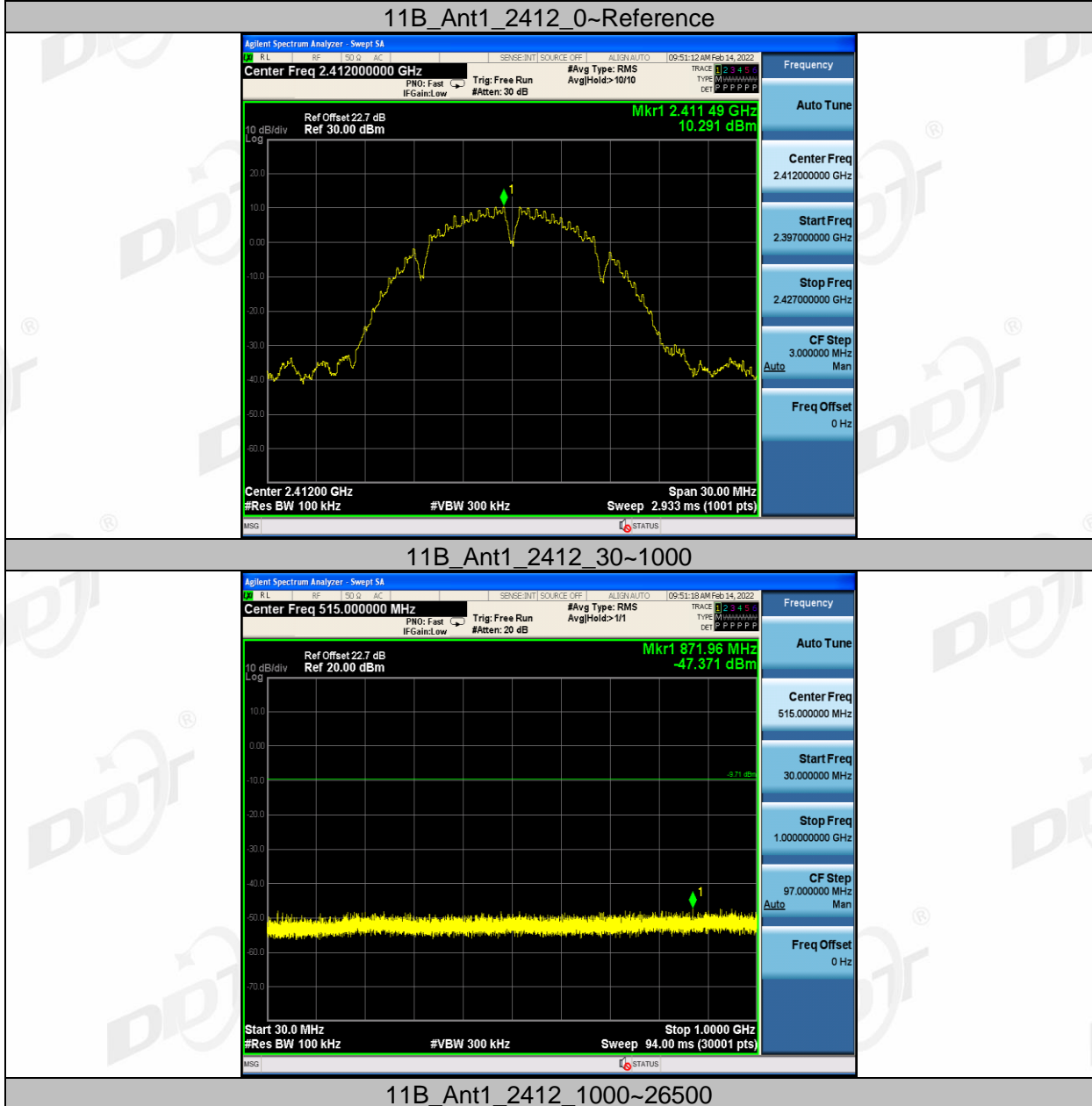
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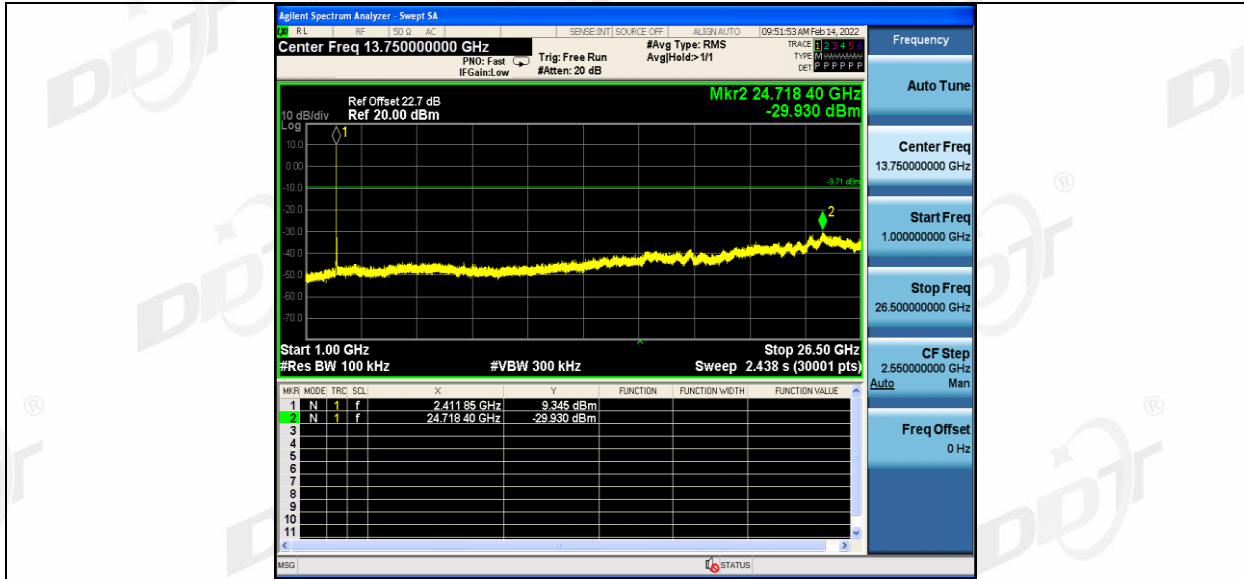


11AX40SU\_Ant2\_High\_2452



Spurious Emissions

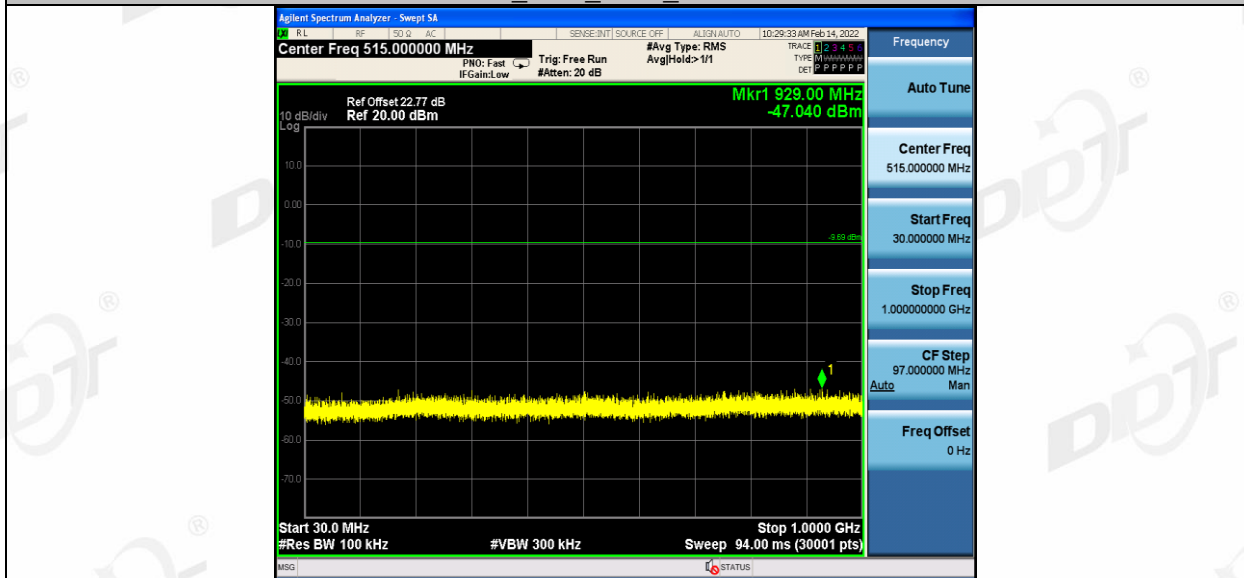




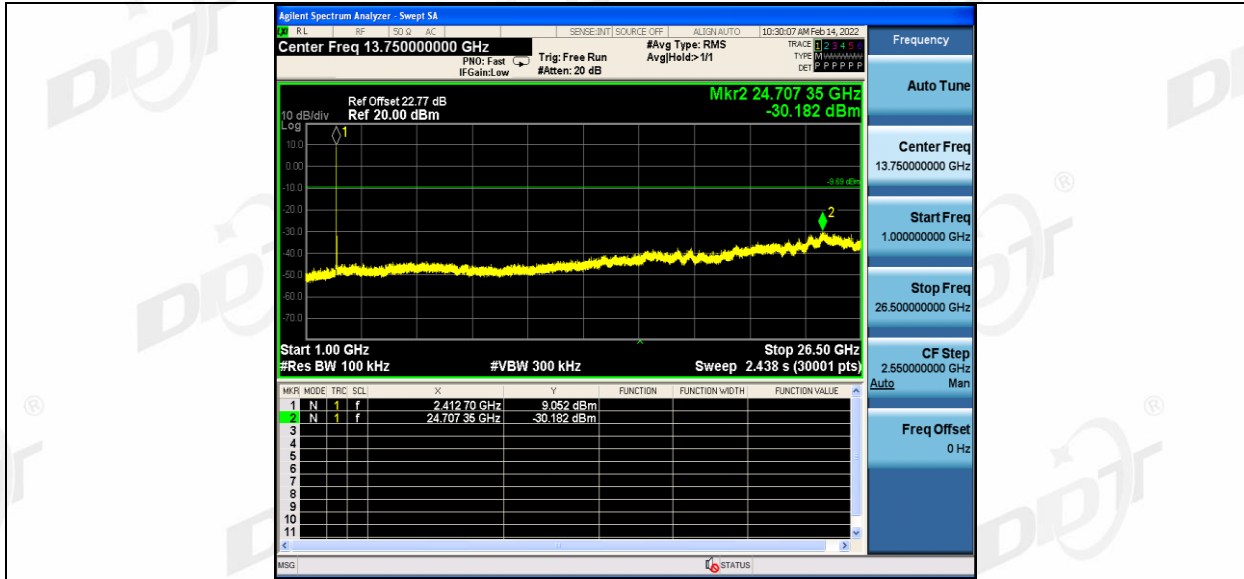
11B\_Ant2\_2412\_0~Reference



11B\_Ant2\_2412\_30~1000



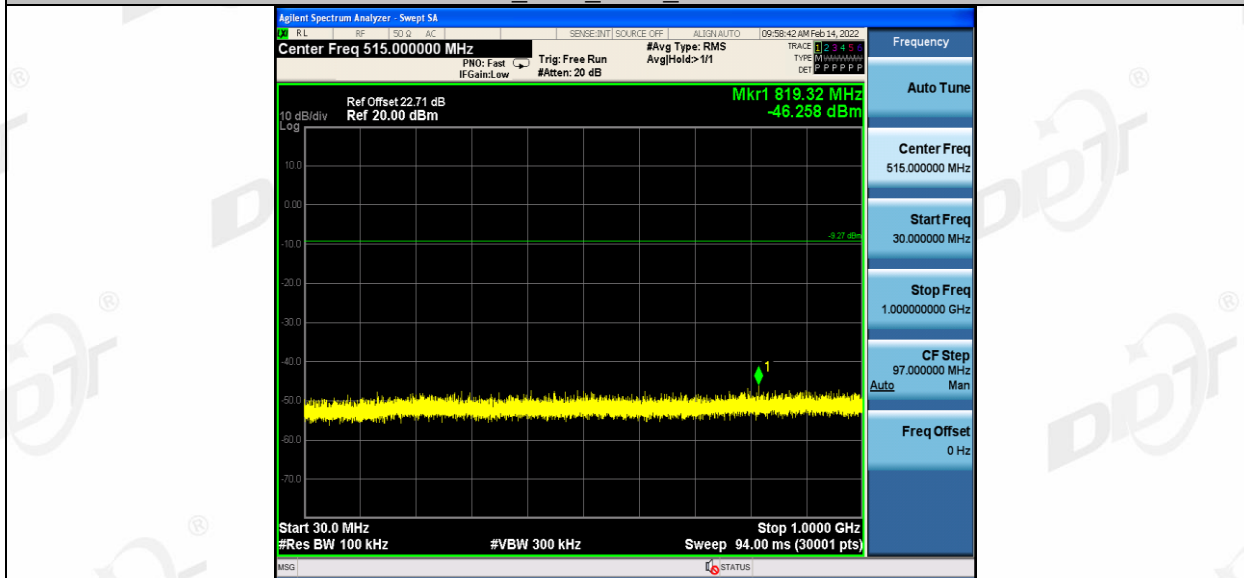
11B\_Ant2\_2412\_1000~26500



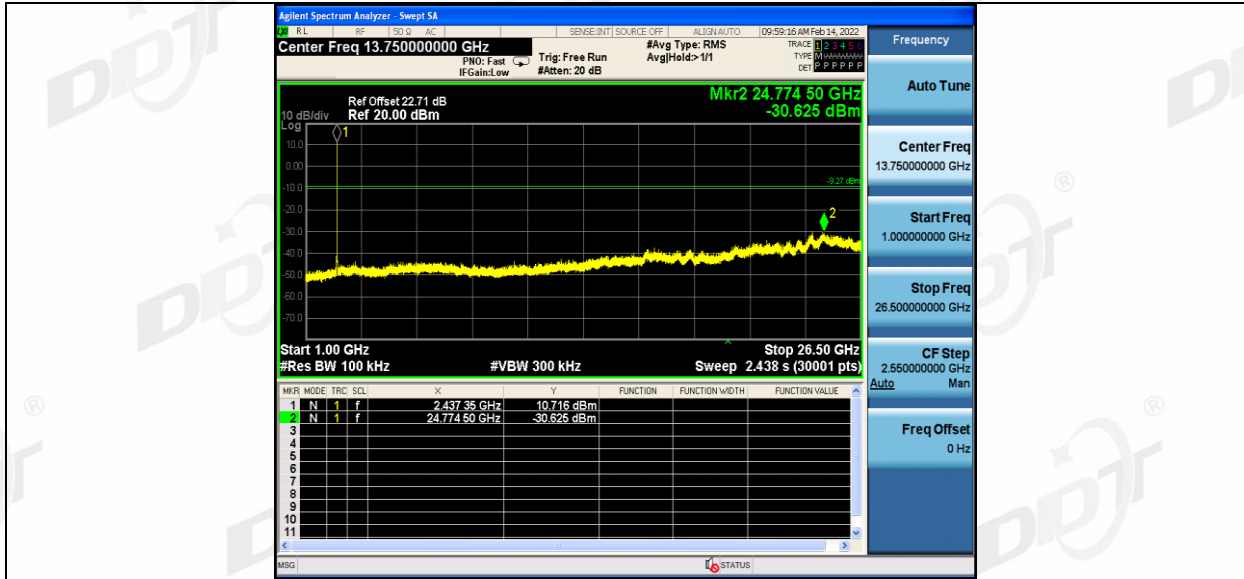
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11B\_Ant1\_2437\_30~1000



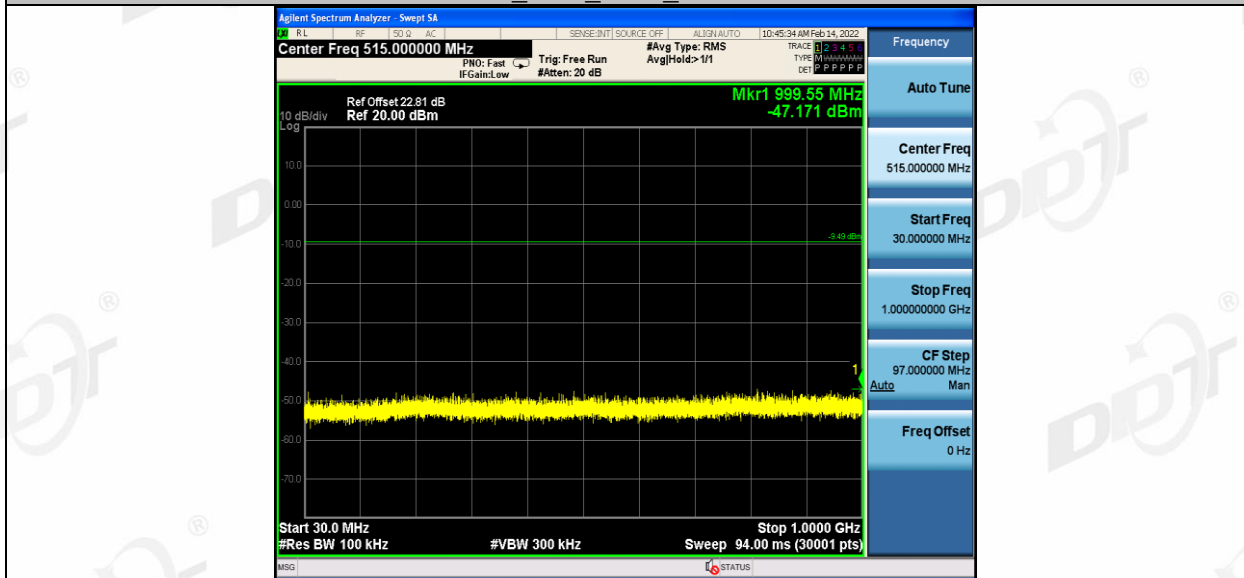
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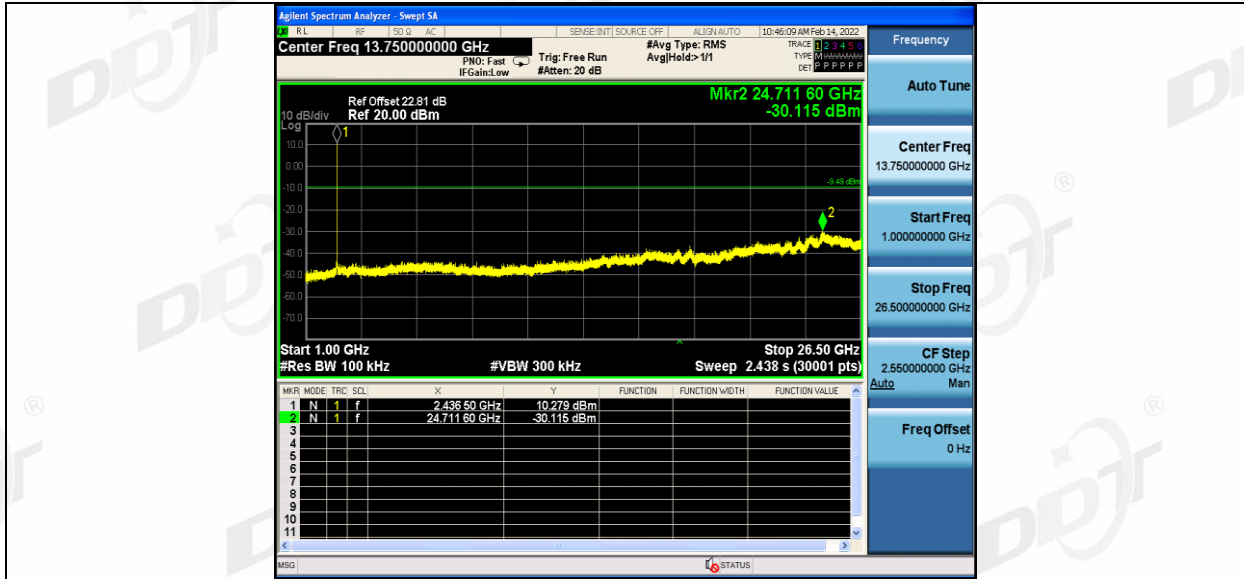
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11B\_Ant2\_2437\_30~1000



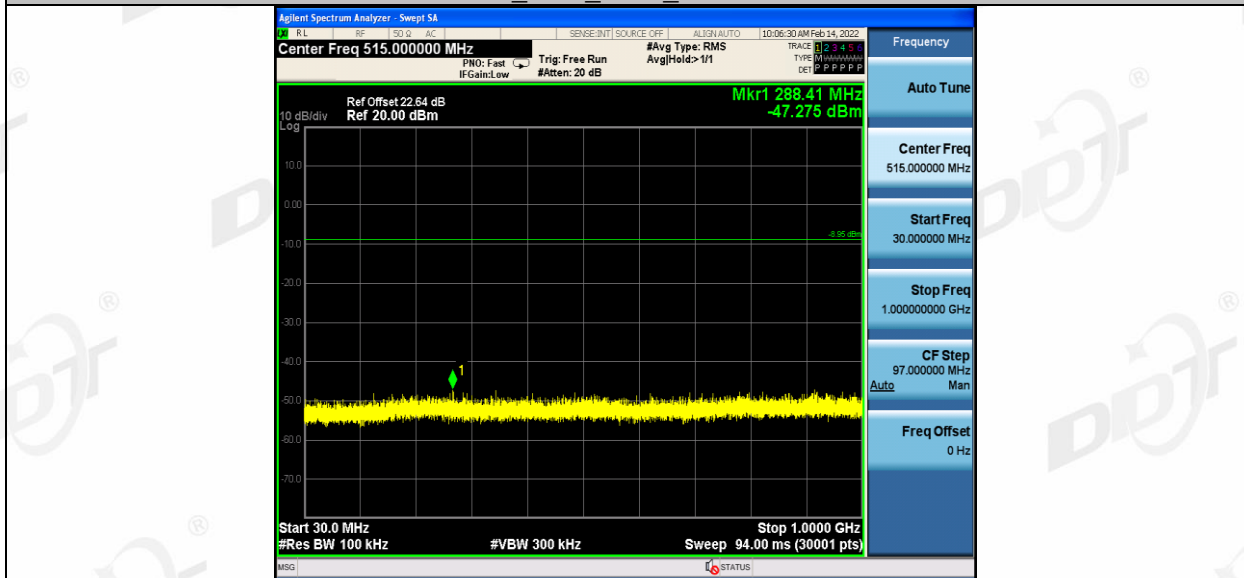
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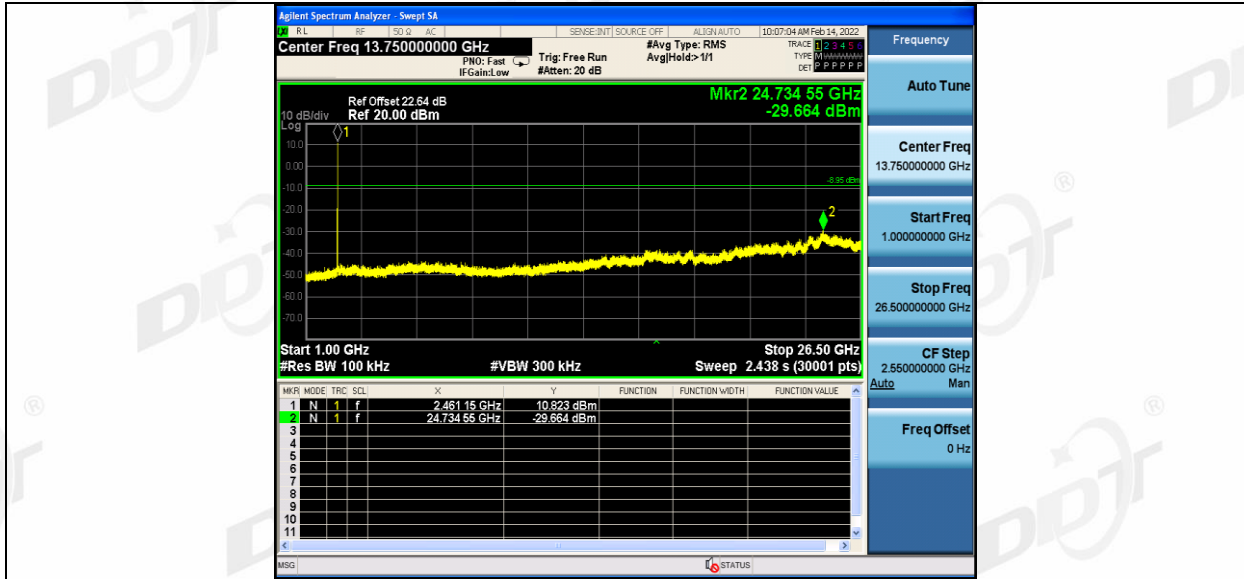
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11B\_Ant1\_2462\_30~1000



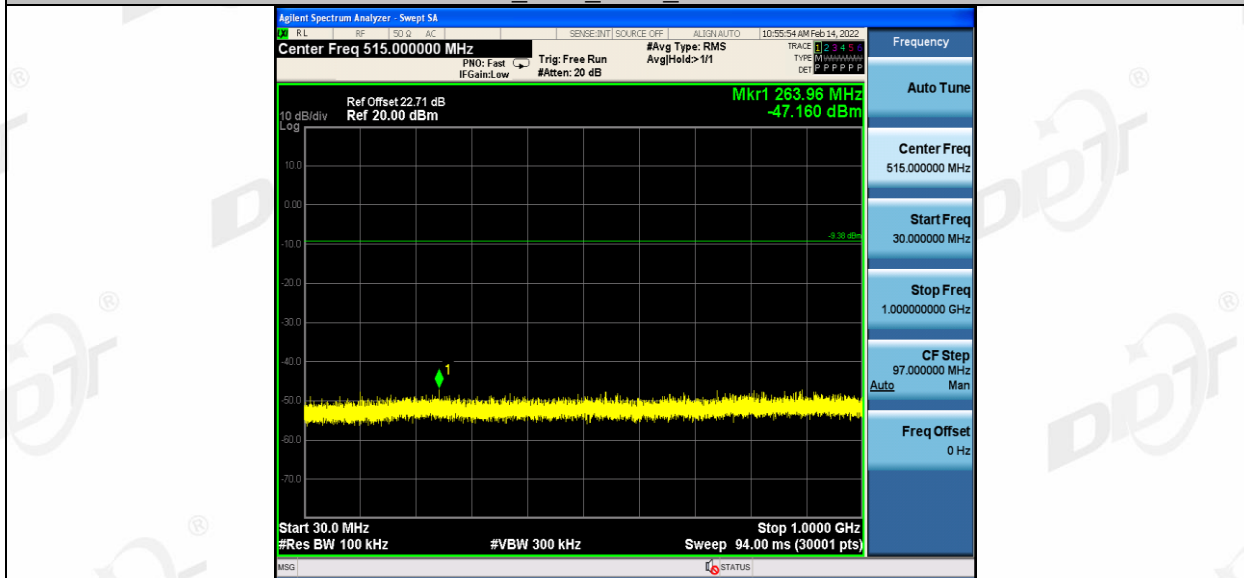
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11B\_Ant2\_2462\_0~Reference

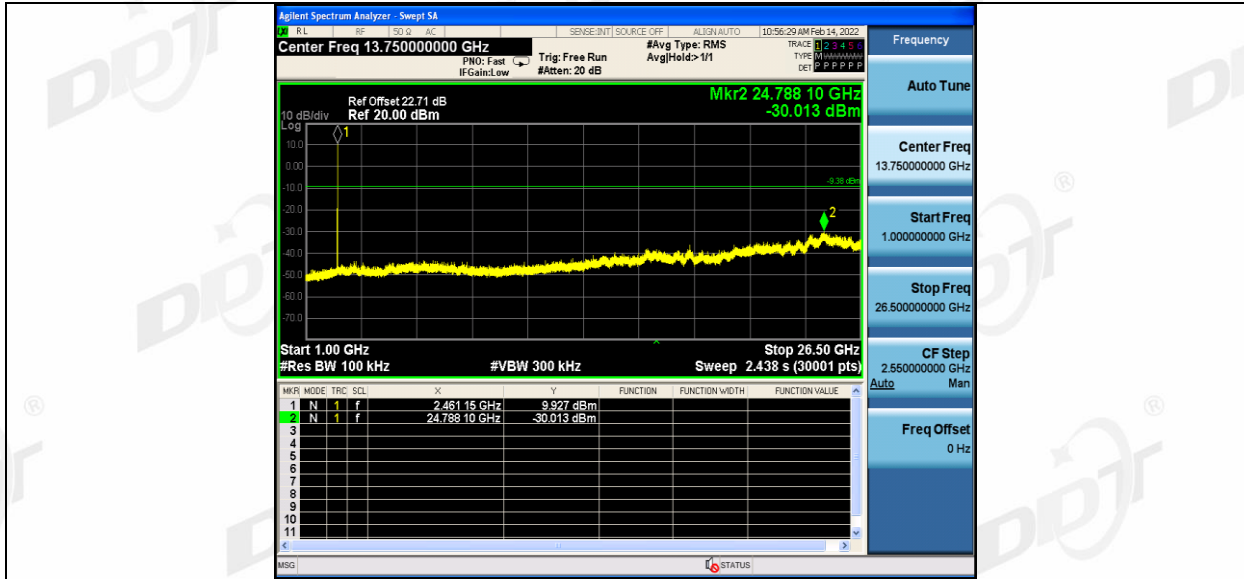


11B\_Ant2\_2462\_30~1000



11B\_Ant2\_2462\_1000~26500

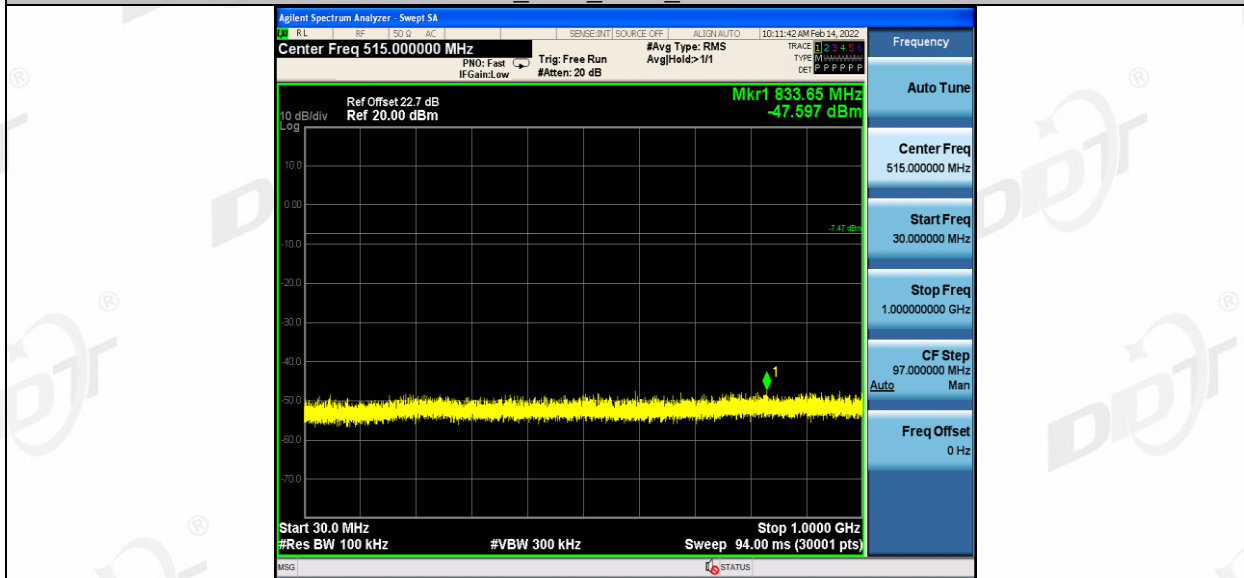




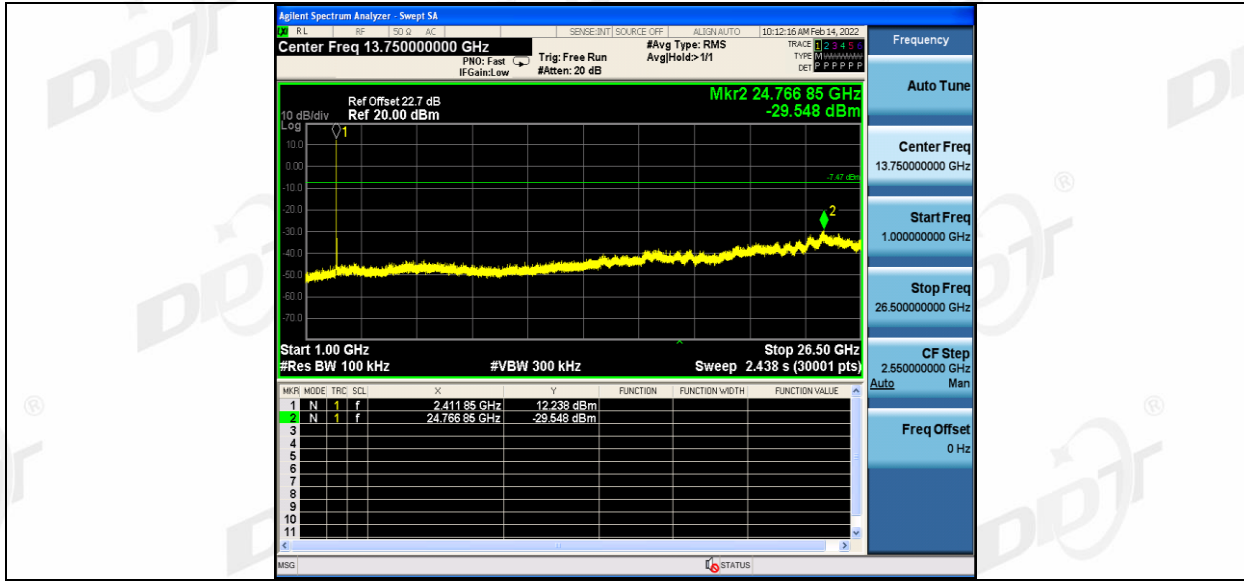
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11G\_Ant1\_2412\_30~1000



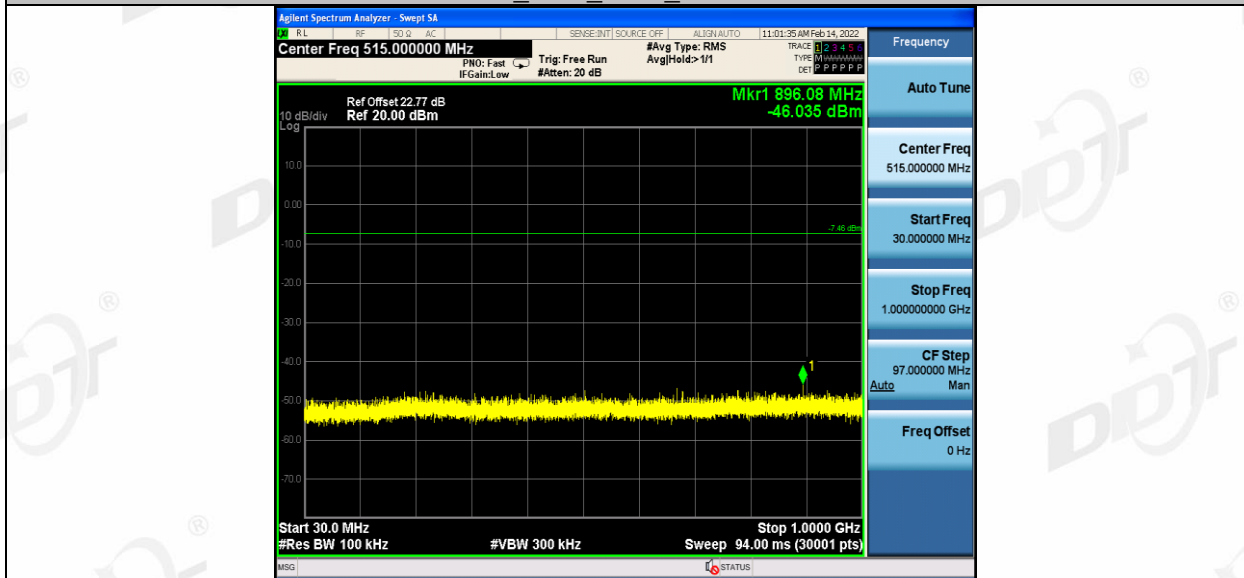
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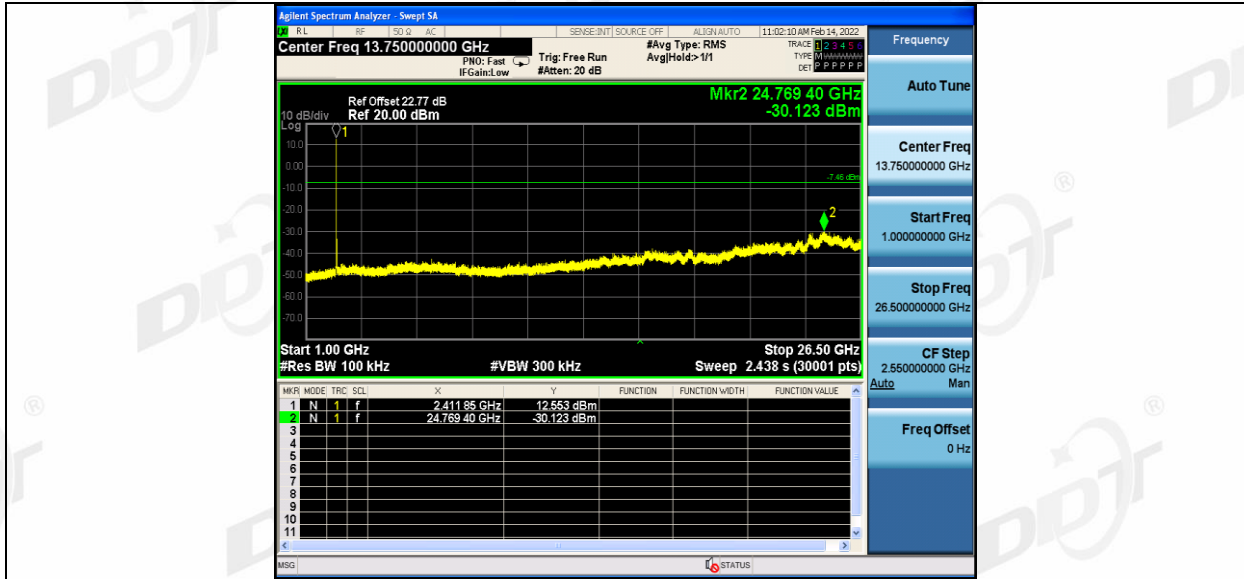
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11G\_Ant2\_2412\_30~1000



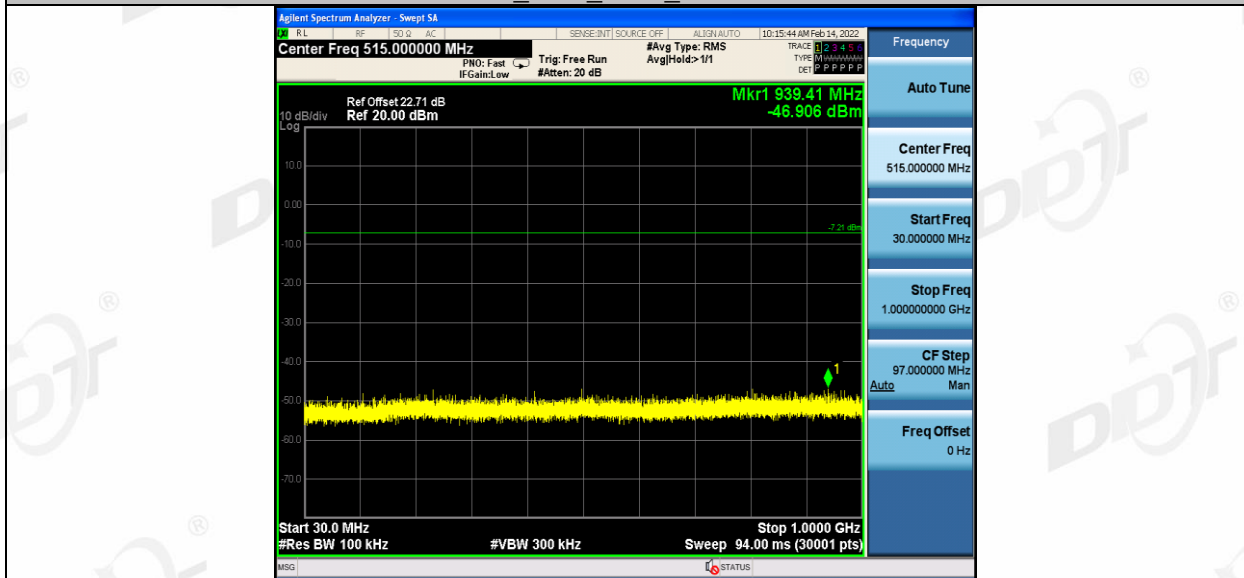
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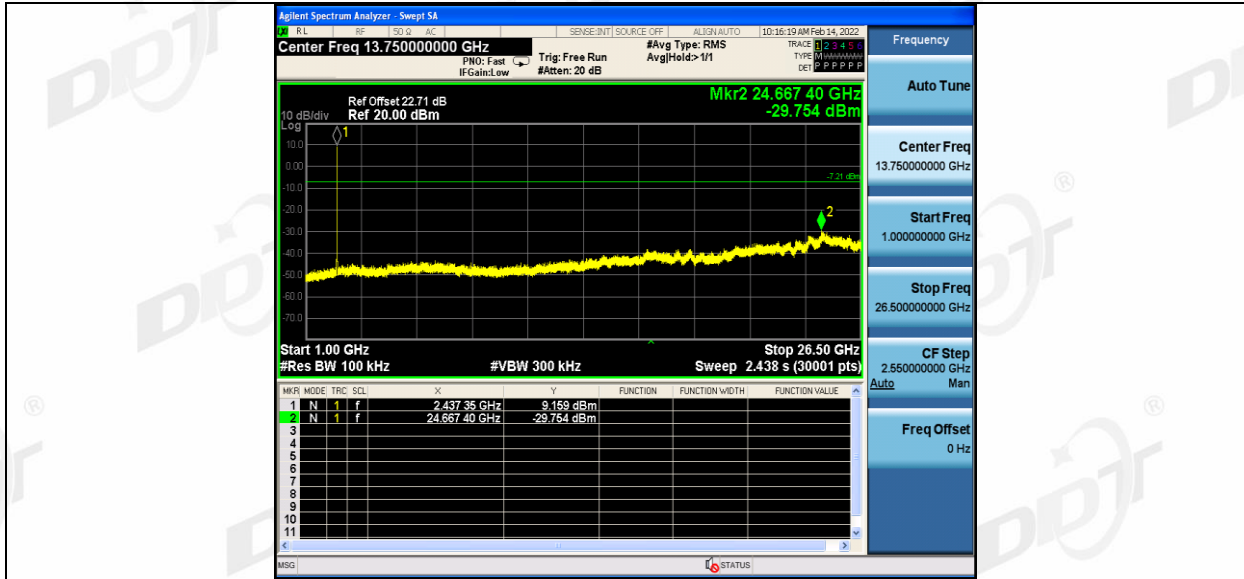
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11G\_Ant1\_2437\_30~1000



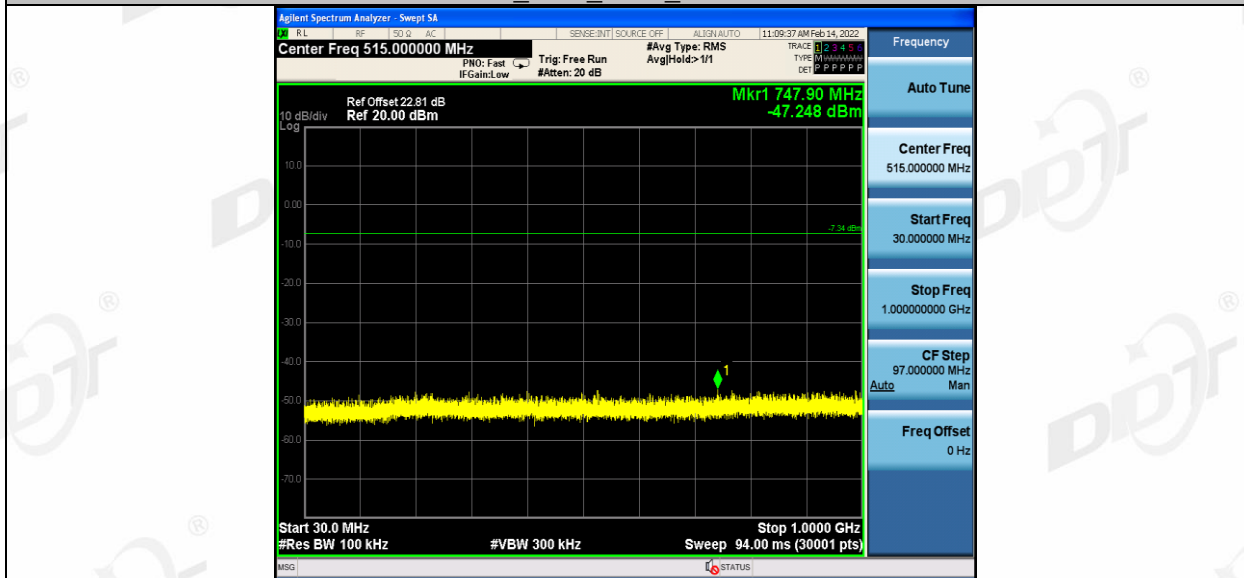
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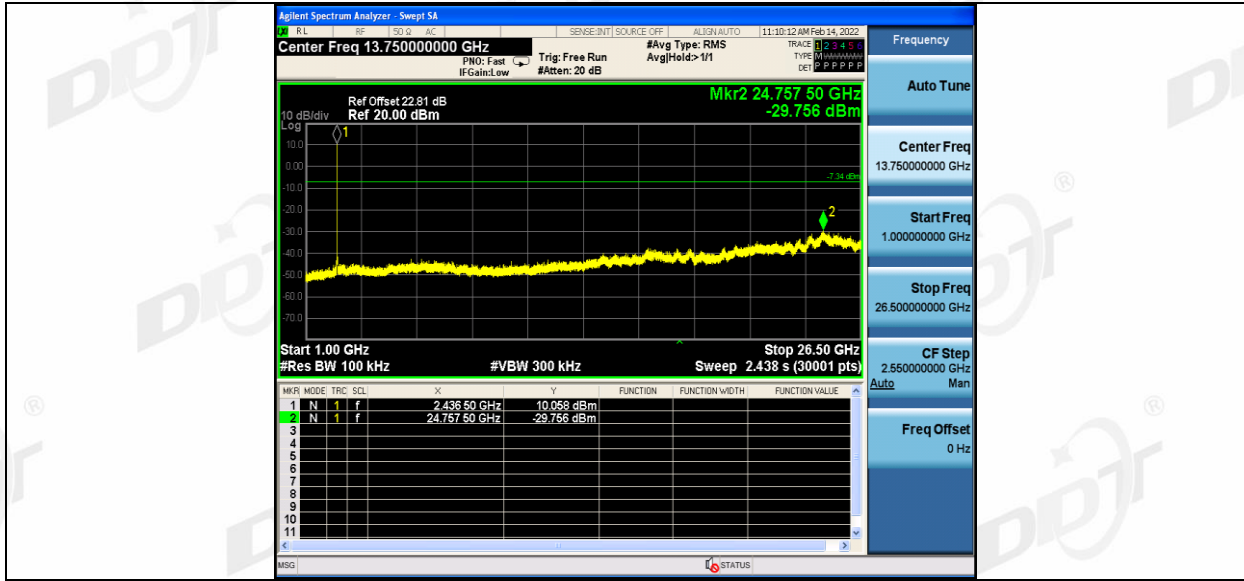
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11G\_Ant2\_2437\_30~1000



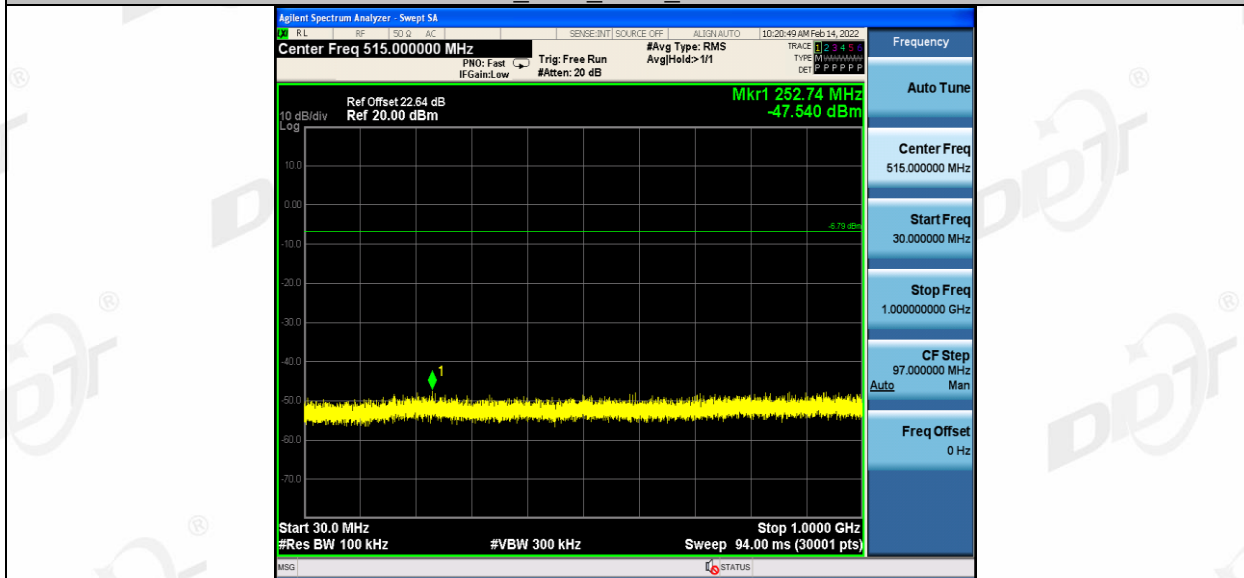
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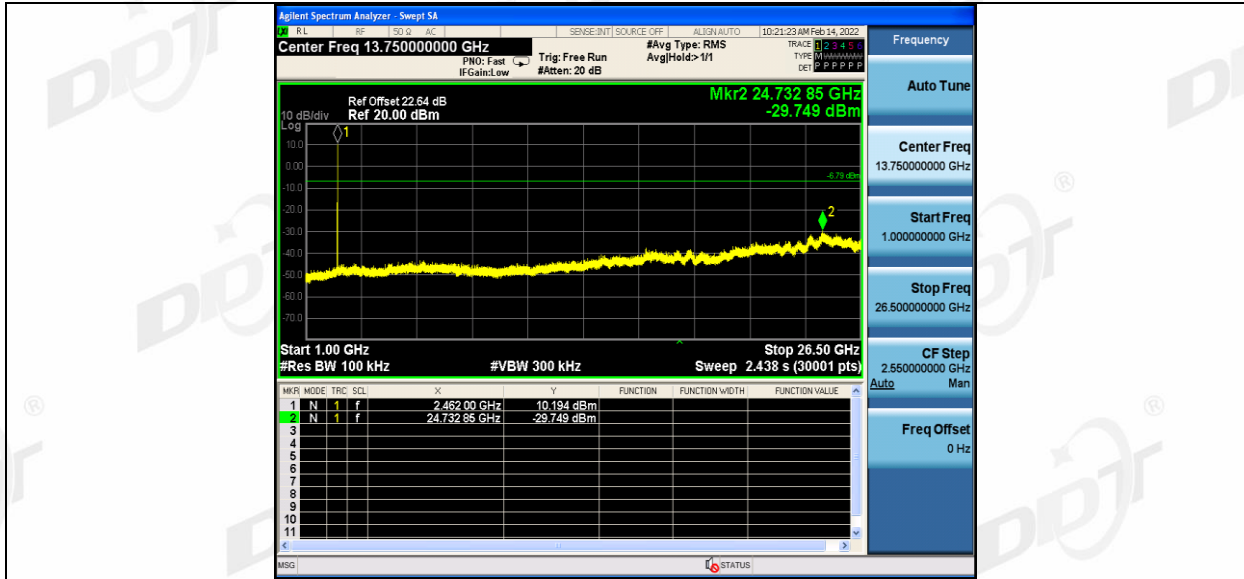
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11G\_Ant1\_2462\_30~1000



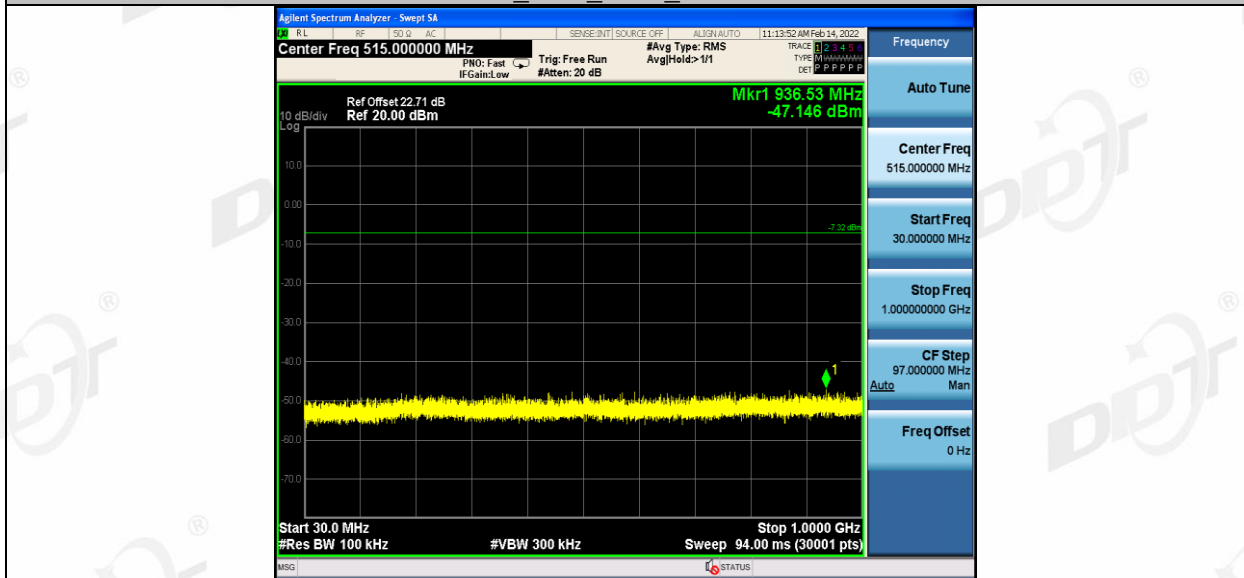
11G\_Ant1\_2462\_1000~26500



11G\_Ant2\_2462\_0~Reference



11G\_Ant2\_2462\_30~1000



11G\_Ant2\_2462\_1000~26500