



## Appendix B

### RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: SwitchBot Mobile Base

Test Model: W3002060

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8°C    |
| Relative Humidity: | 52.1%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jay Luo   |
| Supervised by:     | Nick Peng |



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## B.1 -6dB Bandwidth

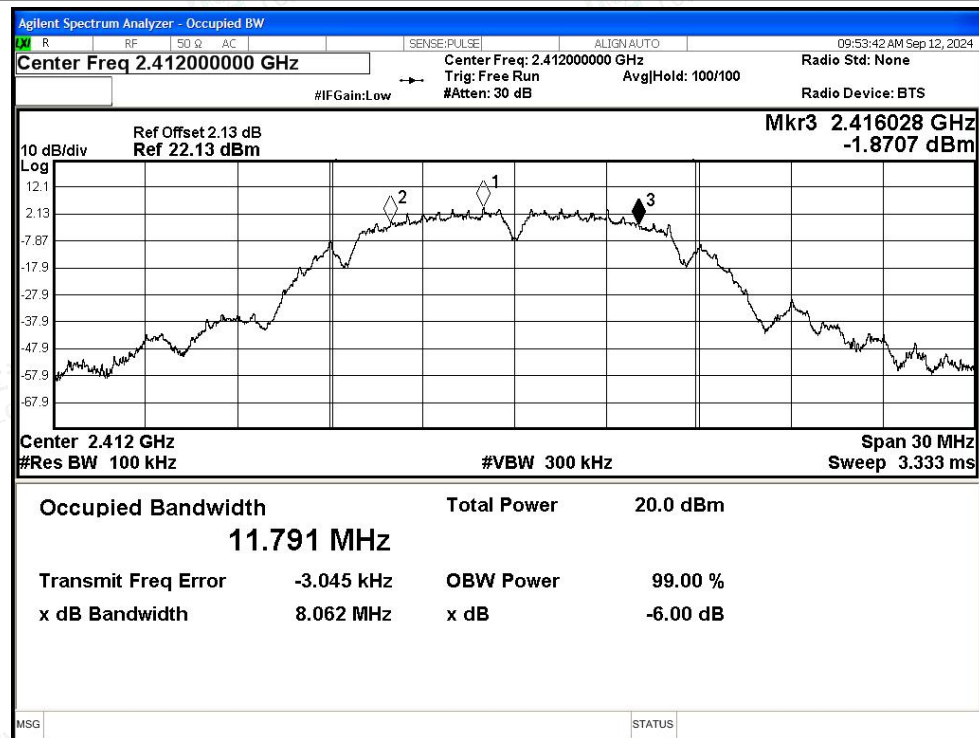
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.062                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 9.022                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.038                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 15.693                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.303                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.316                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16.977                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.005                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.13                 | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 35.538                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 35.887                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 35.486                | $\geq 0.5$                  | Pass    |



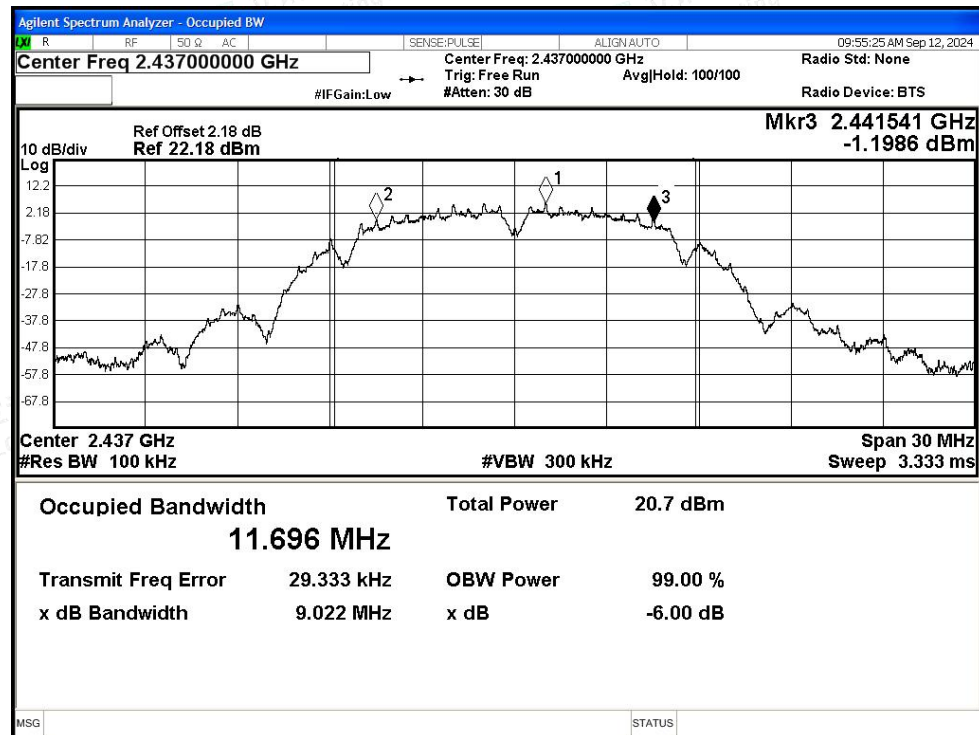


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

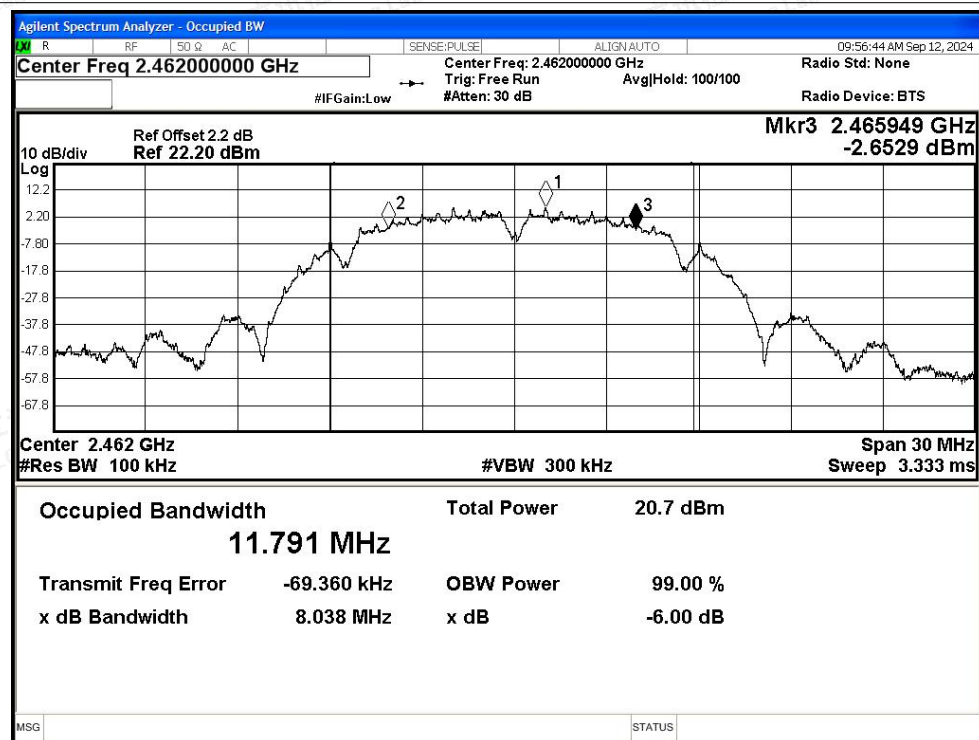


-6dB Bandwidth NVNT b 2437MHz Ant1

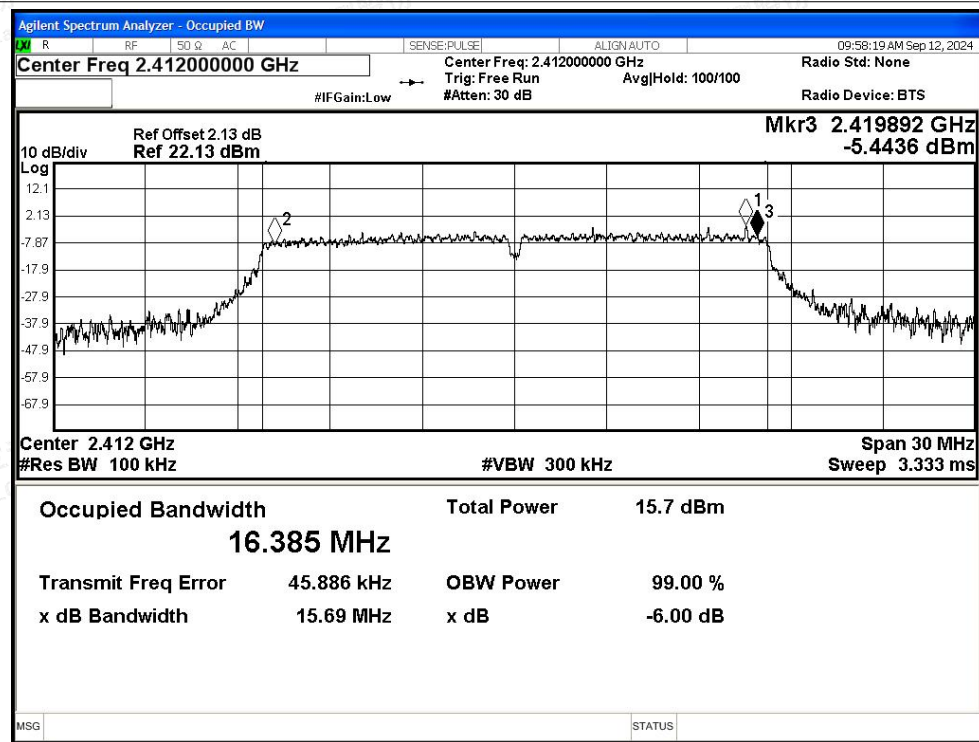




## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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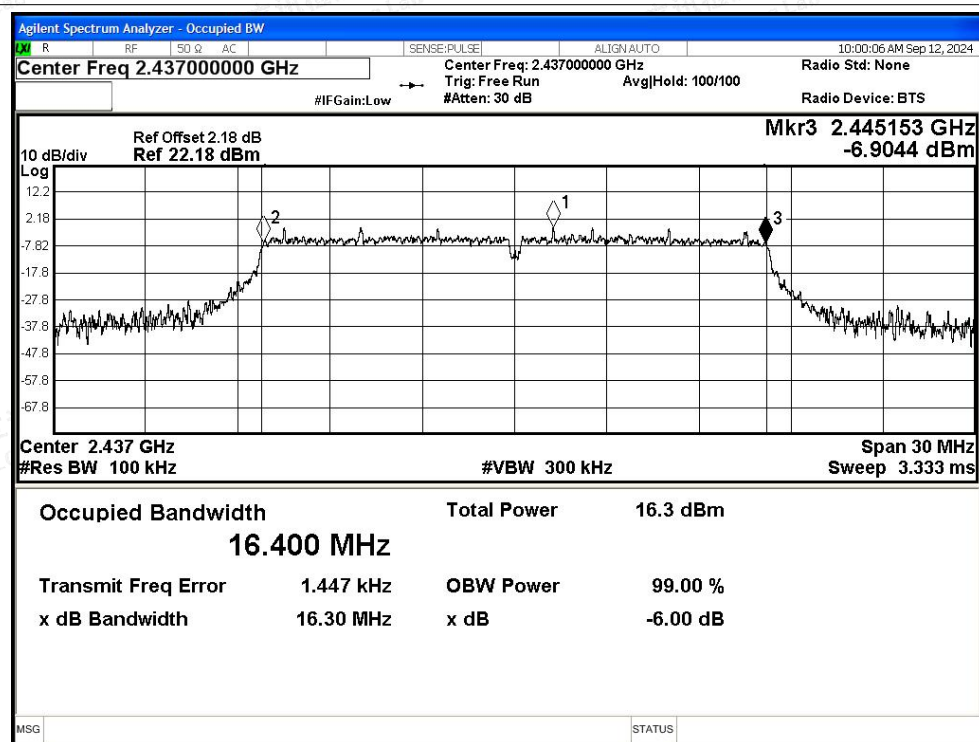
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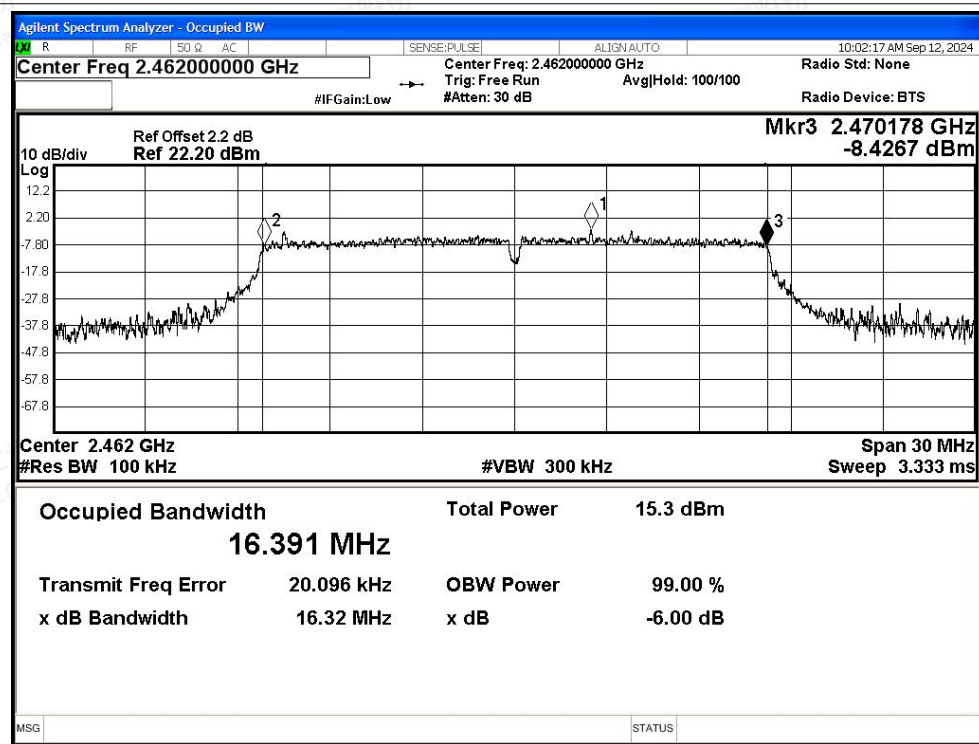
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## -6dB Bandwidth NVNT g 2437MHz Ant1



## -6dB Bandwidth NVNT g 2462MHz Ant1



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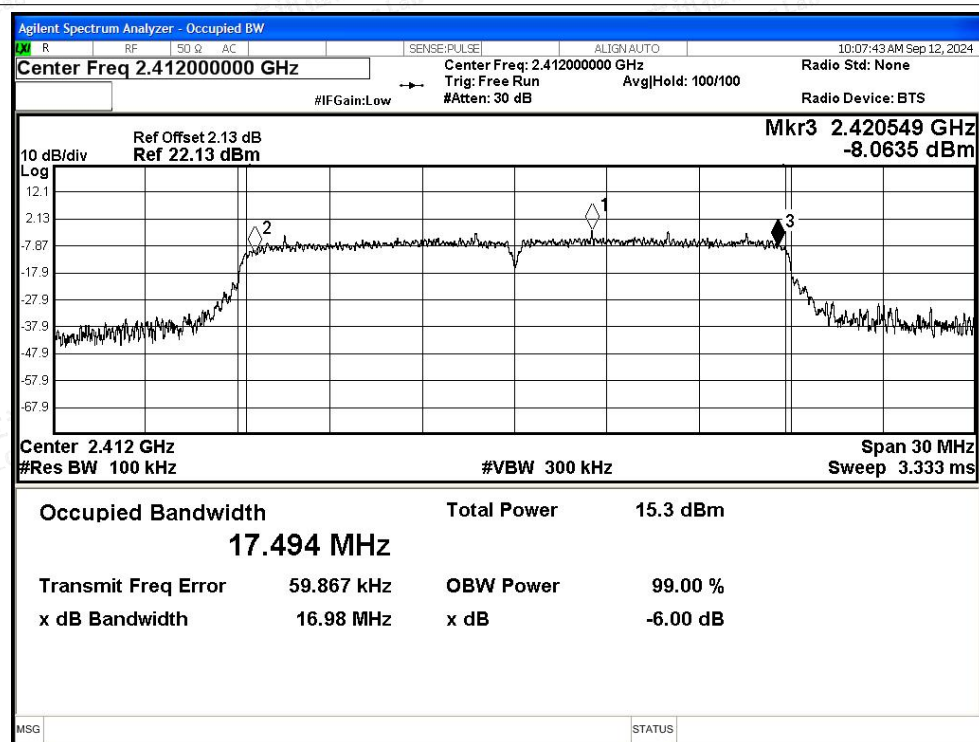
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

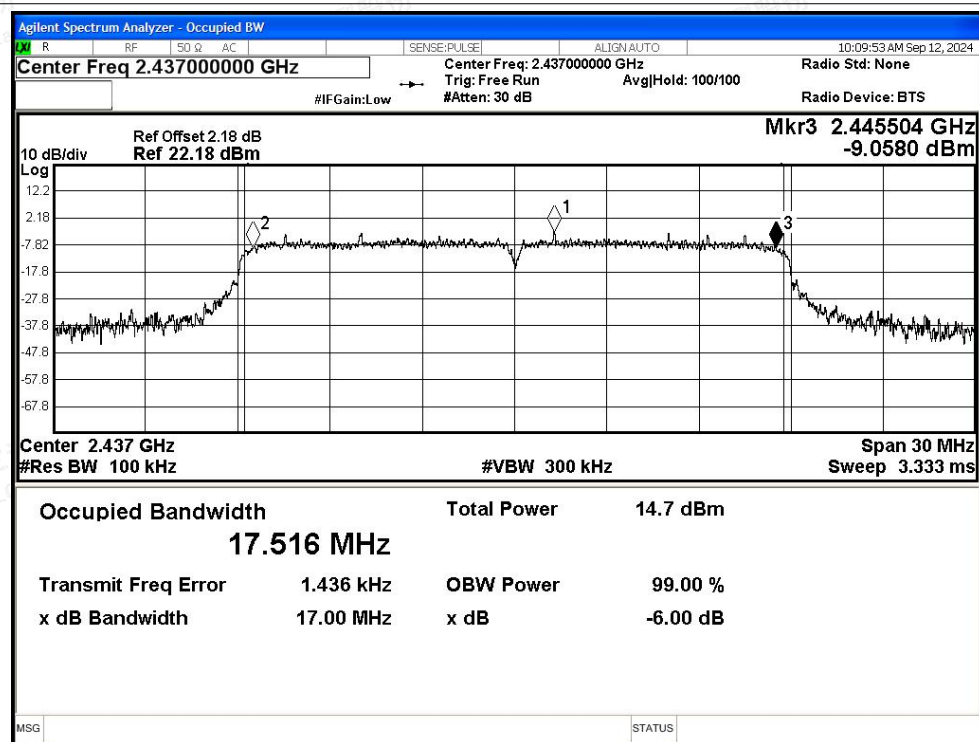
Scan code to check authenticity



## -6dB Bandwidth NVNT n20 2412MHz Ant1

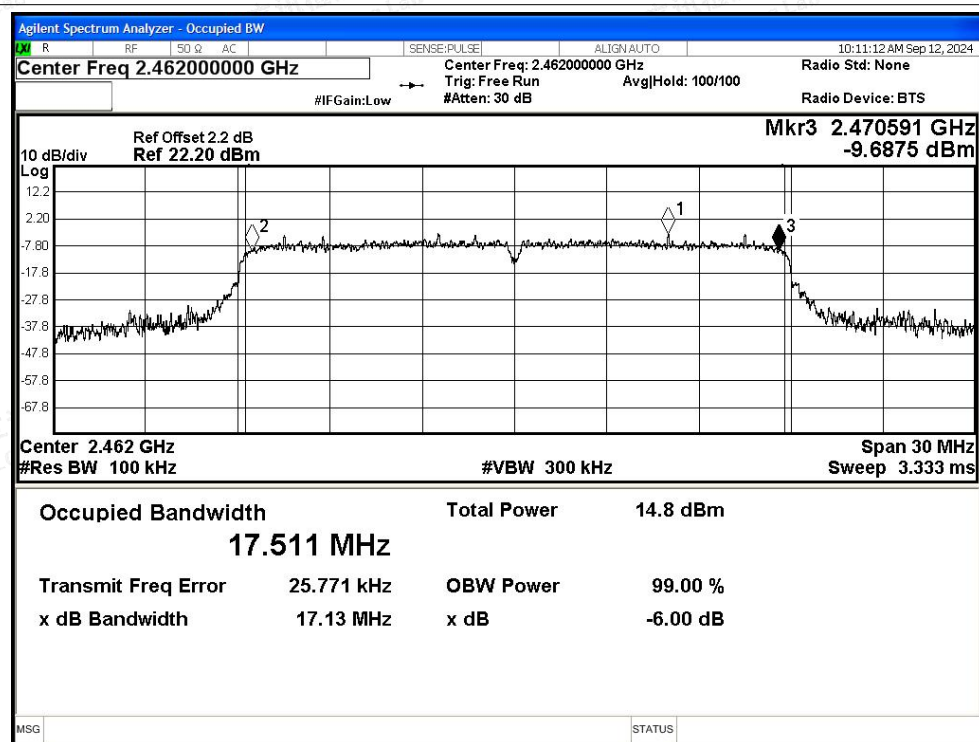


## -6dB Bandwidth NVNT n20 2437MHz Ant1

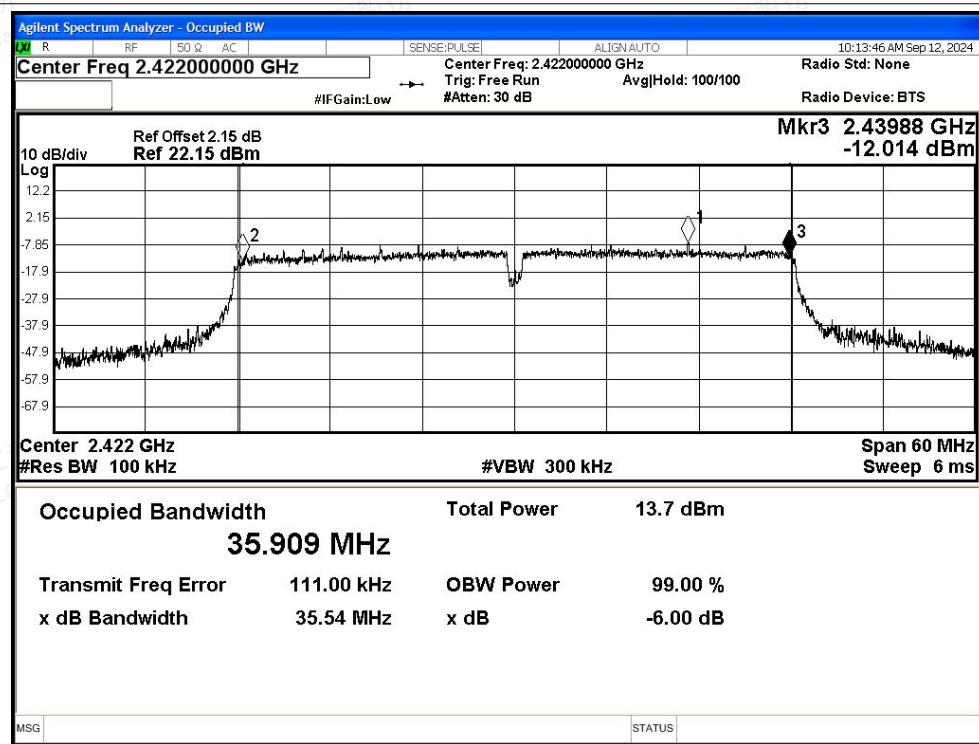




## -6dB Bandwidth NVNT n20 2462MHz Ant1

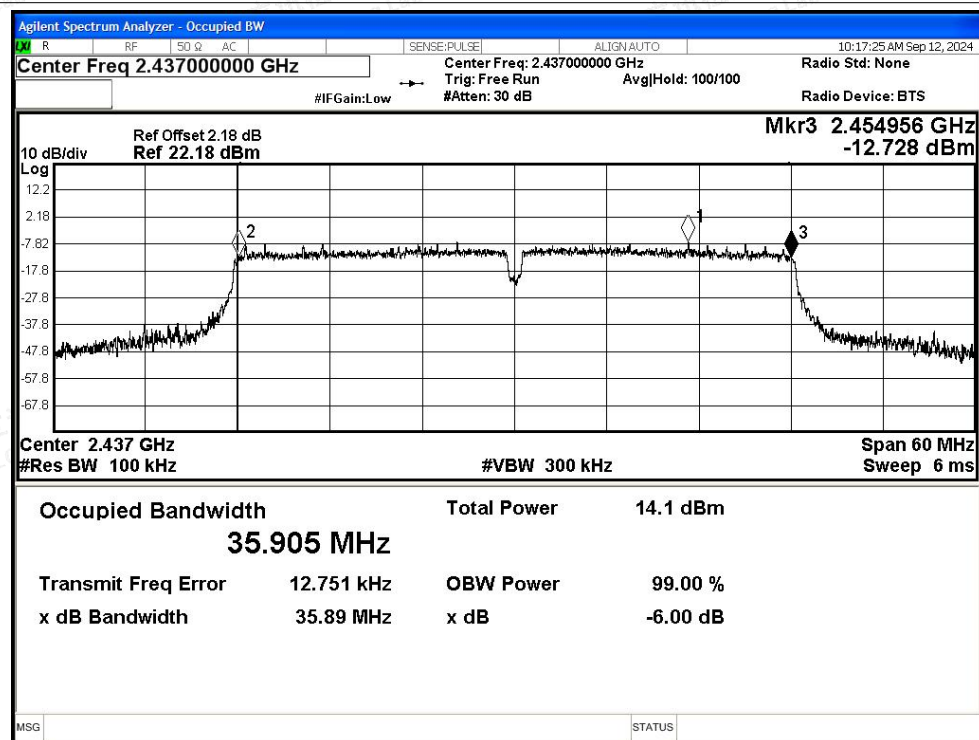


## -6dB Bandwidth NVNT n40 2422MHz Ant1

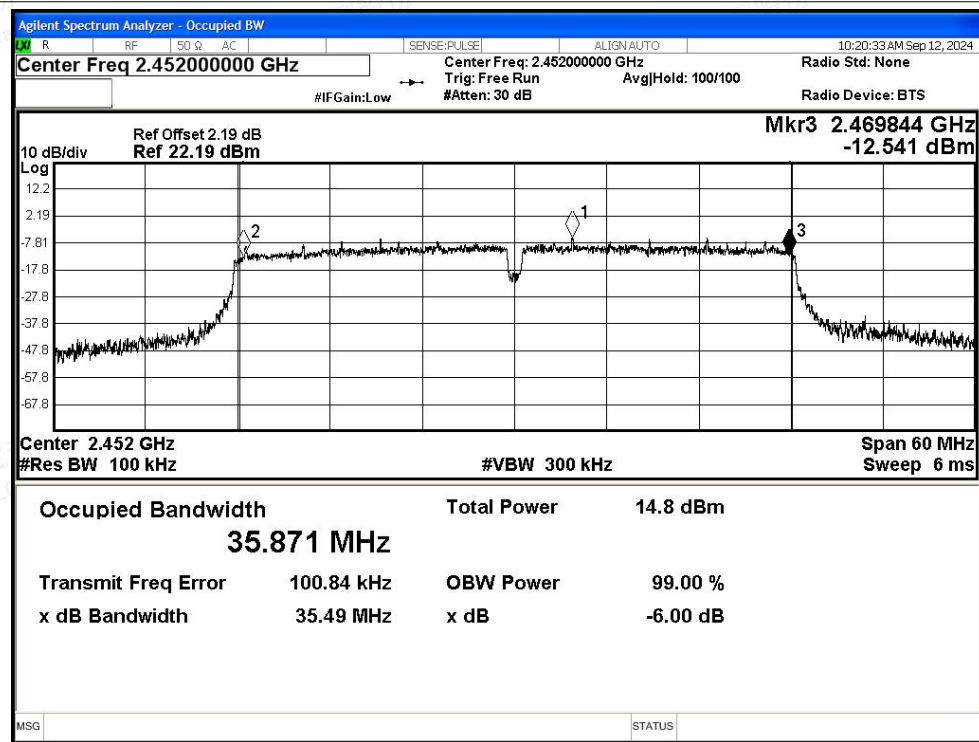




## -6dB Bandwidth NVNT n40 2437MHz Ant1



## -6dB Bandwidth NVNT n40 2452MHz Ant1



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## B.2 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 15.16                 | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.65                 | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 15.73                 | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.47                 | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.09                 | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.11                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.88                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 13.35                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 13.47                 | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 12.26                 | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 12.57                 | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 12.23                 | 30          | Pass    |





### B.3 Maximum Power Spectral Density Level

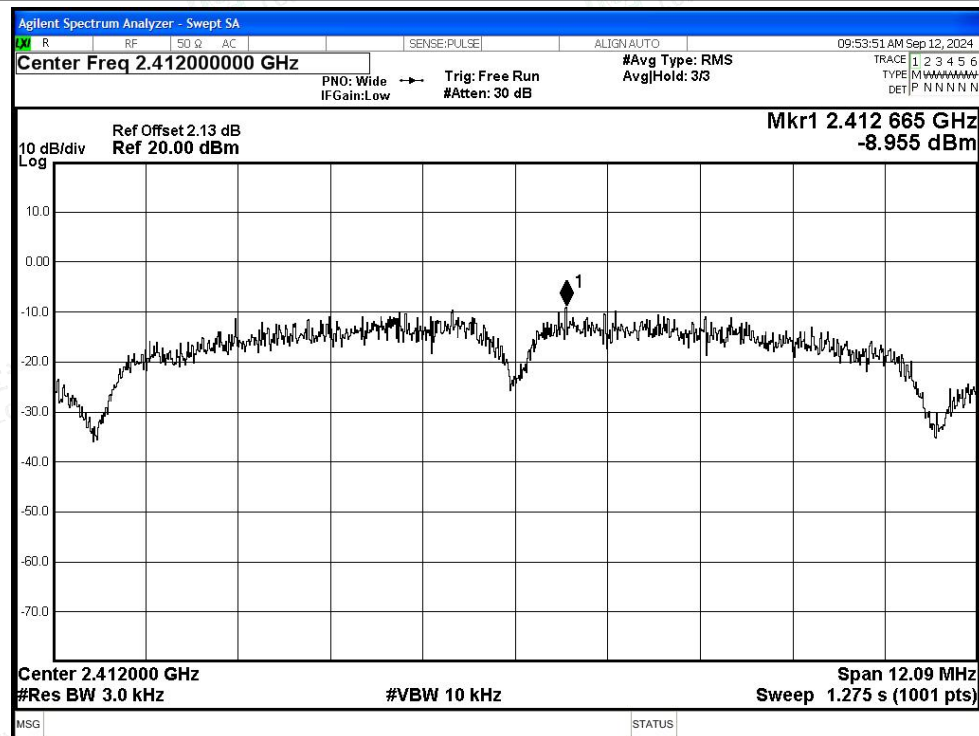
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -8.96                    | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -8.66                    | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -7.28                    | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -16.27                   | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -14.63                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -16.74                   | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -16.41                   | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -17                      | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -16.5                    | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -21.25                   | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -20.89                   | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -20.3                    | 8                | Pass    |



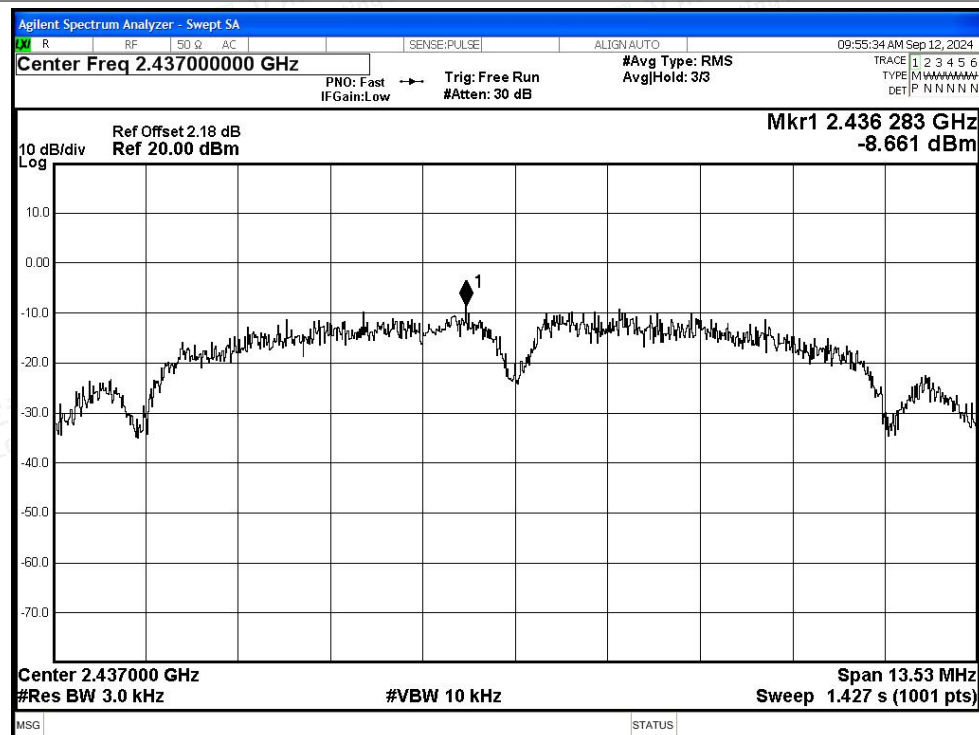


## Test Graphs

PSD NVNT b 2412MHz Ant1

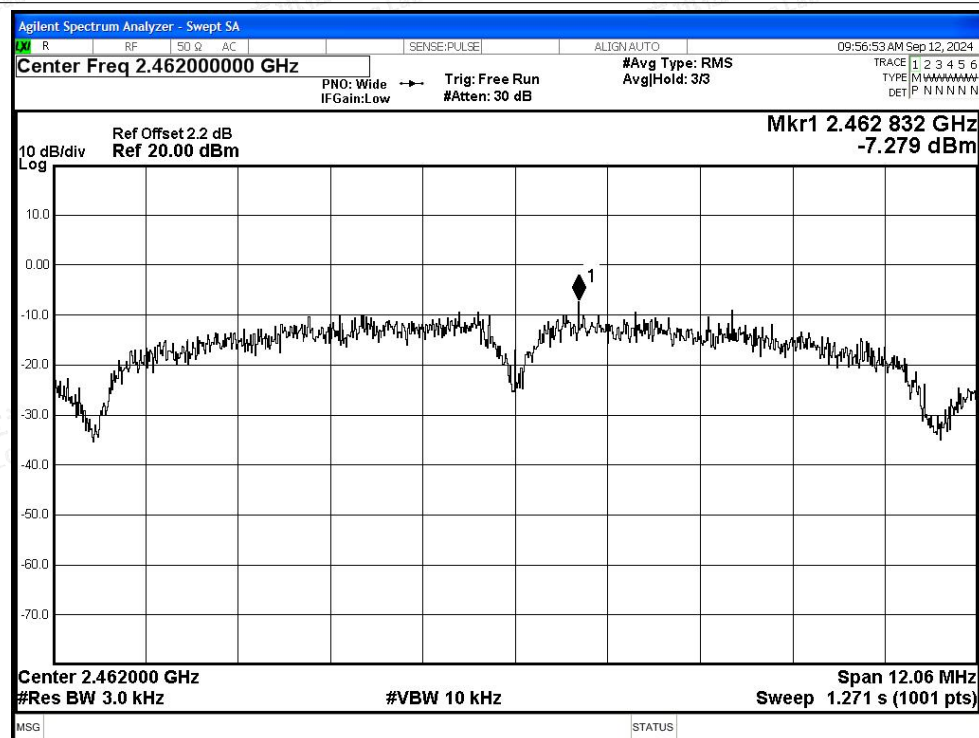


PSD NVNT b 2437MHz Ant1

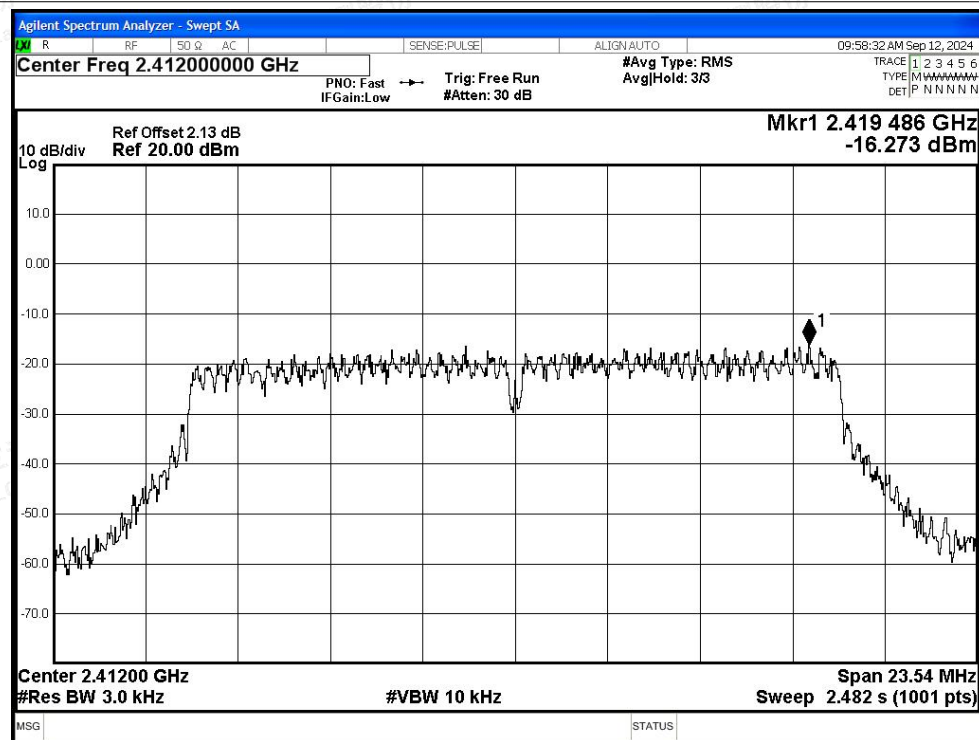




## PSD NVNT b 2462MHz Ant1

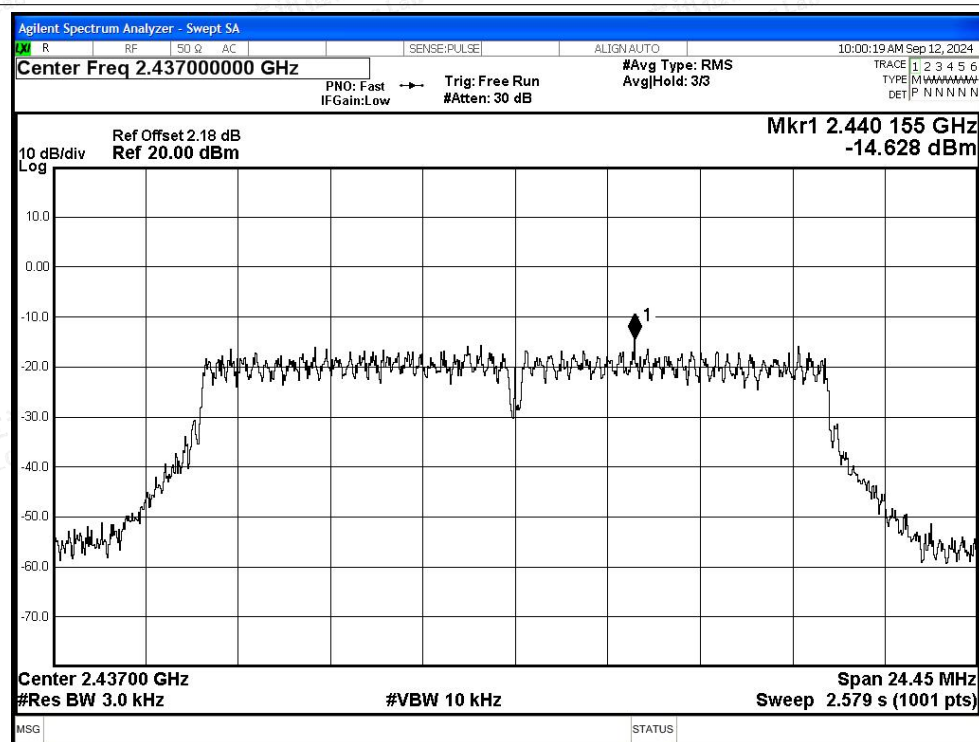


## PSD NVNT g 2412MHz Ant1

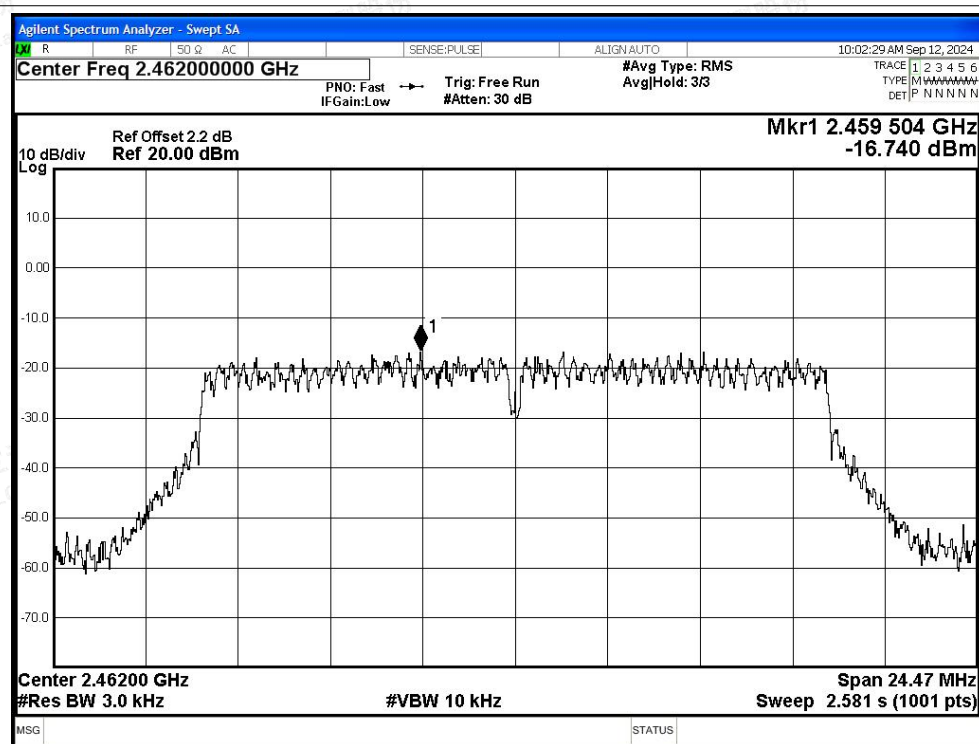


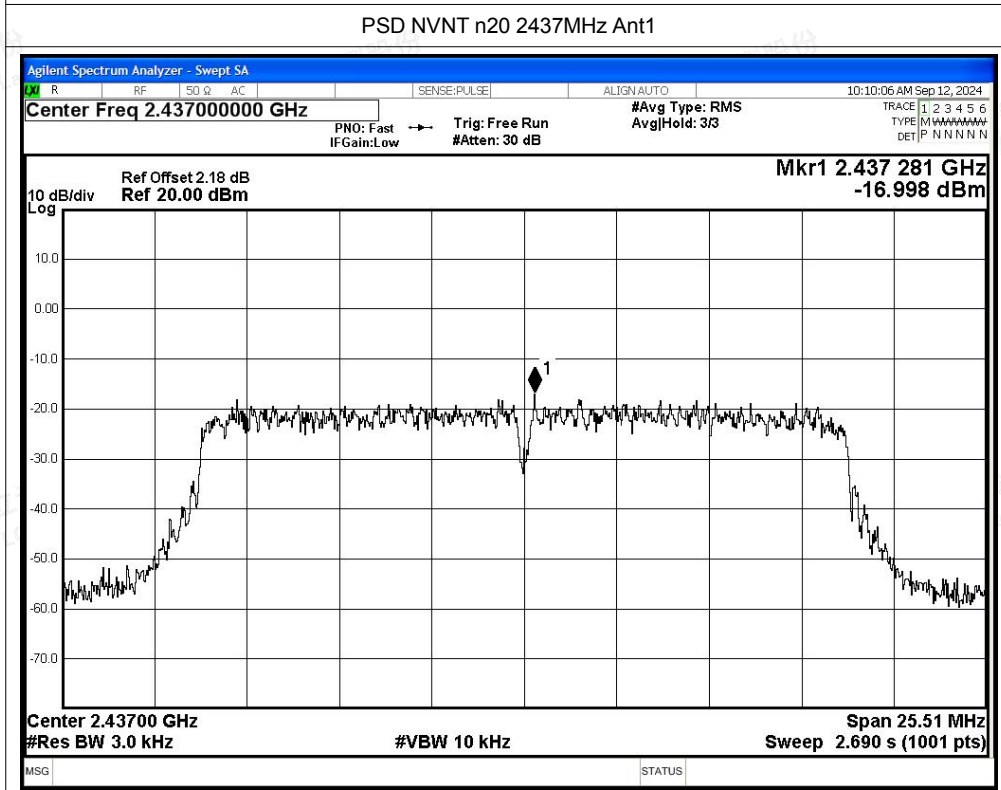
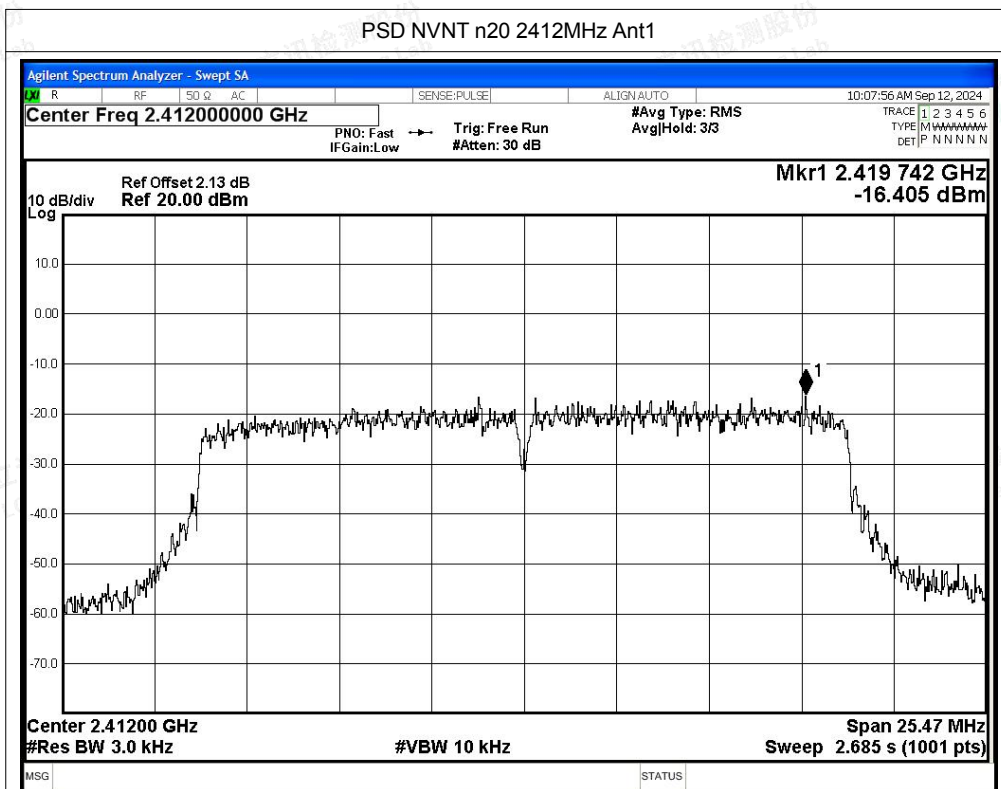


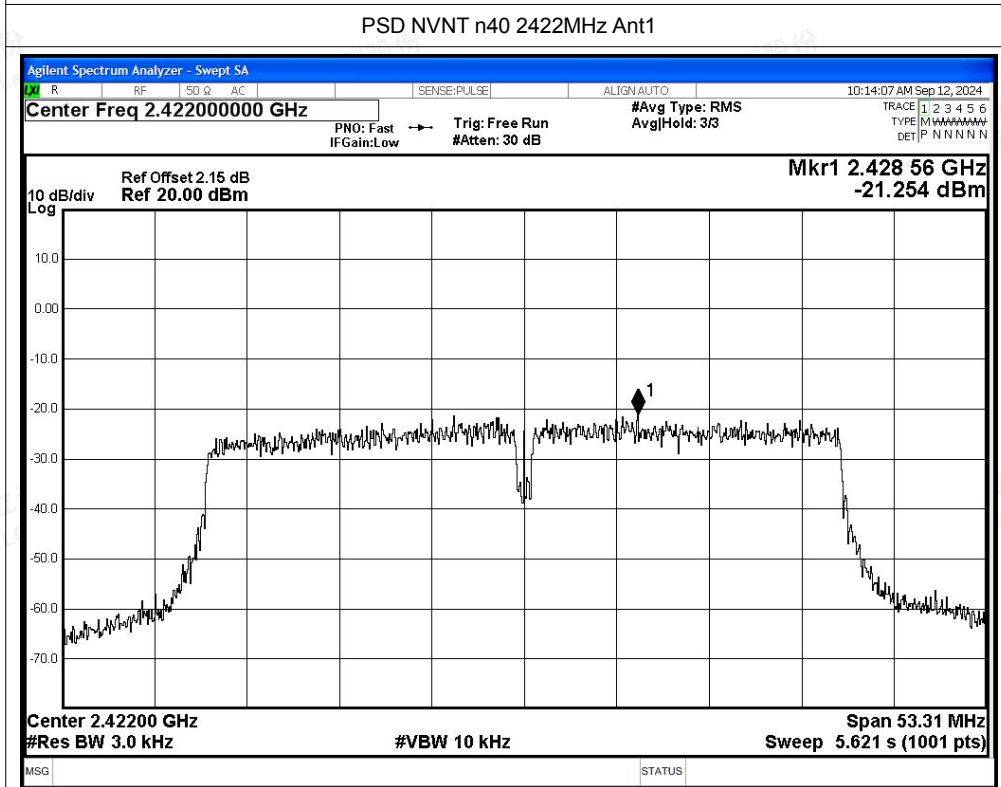
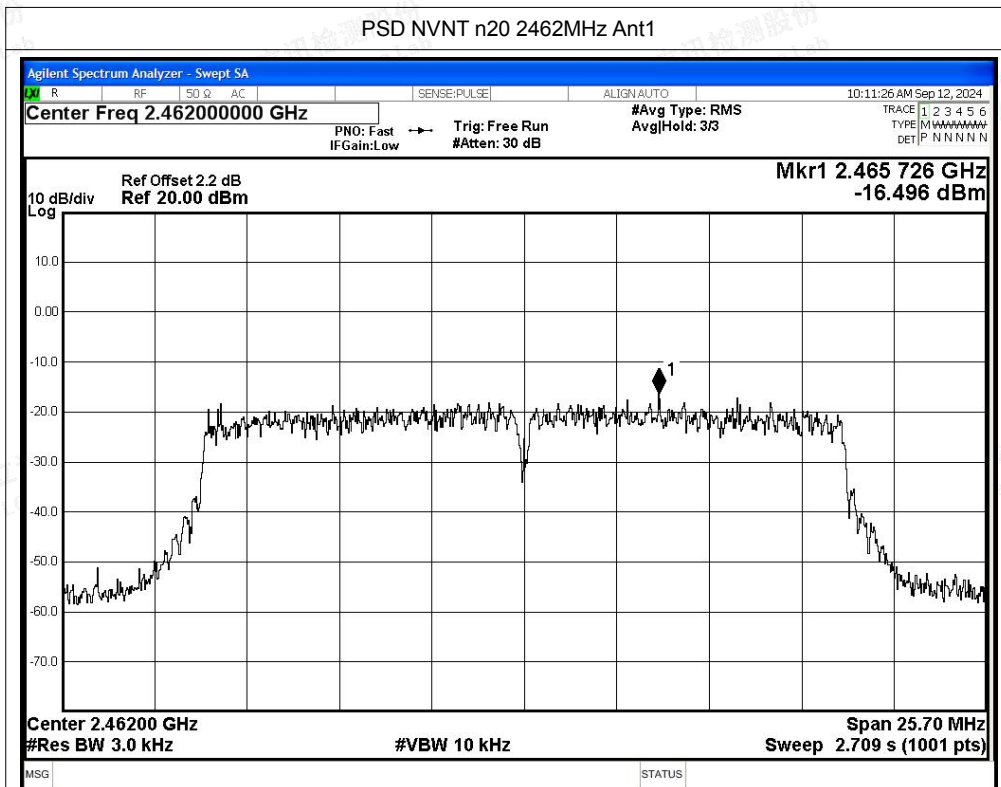
PSD NVNT g 2437MHz Ant1

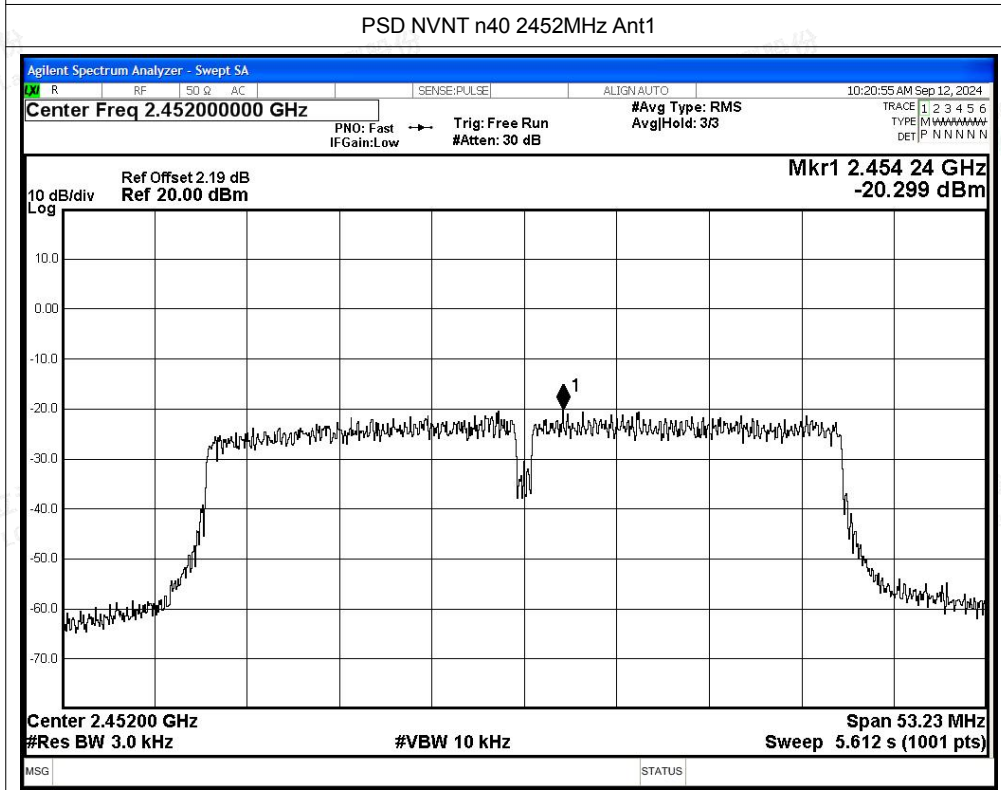
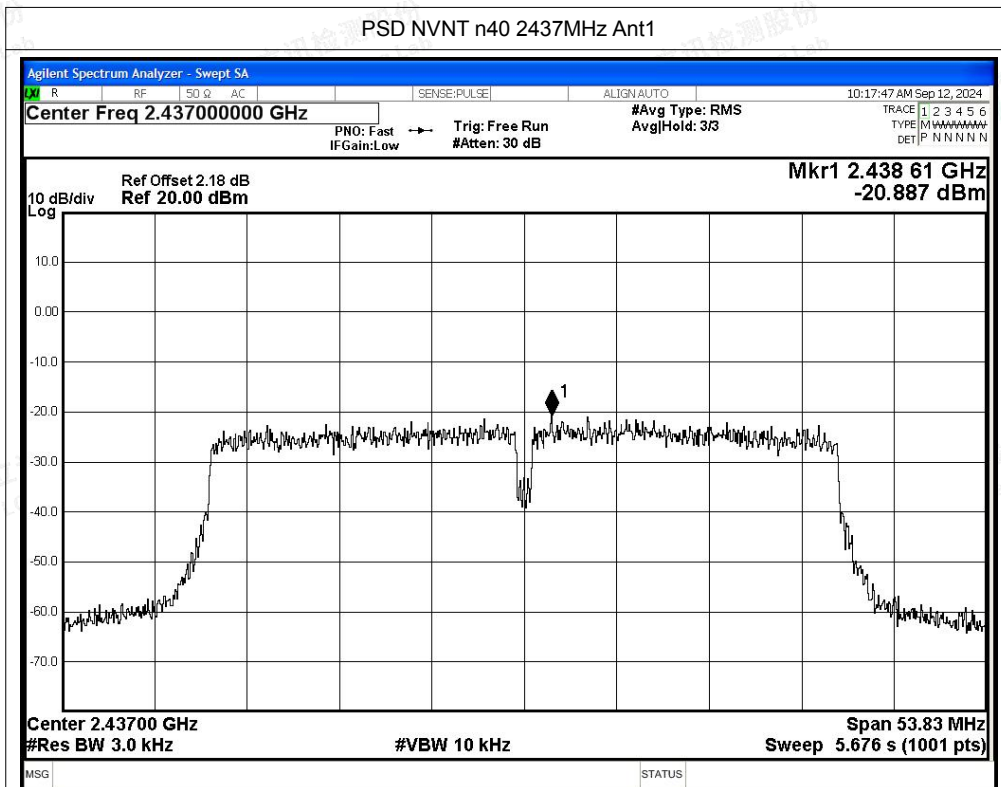


PSD NVNT g 2462MHz Ant1











## B.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -48.68          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -59.93          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -33.24          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -42.03          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -32.63          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -39.97          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -33.62          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -38.82          | -20         | Pass    |



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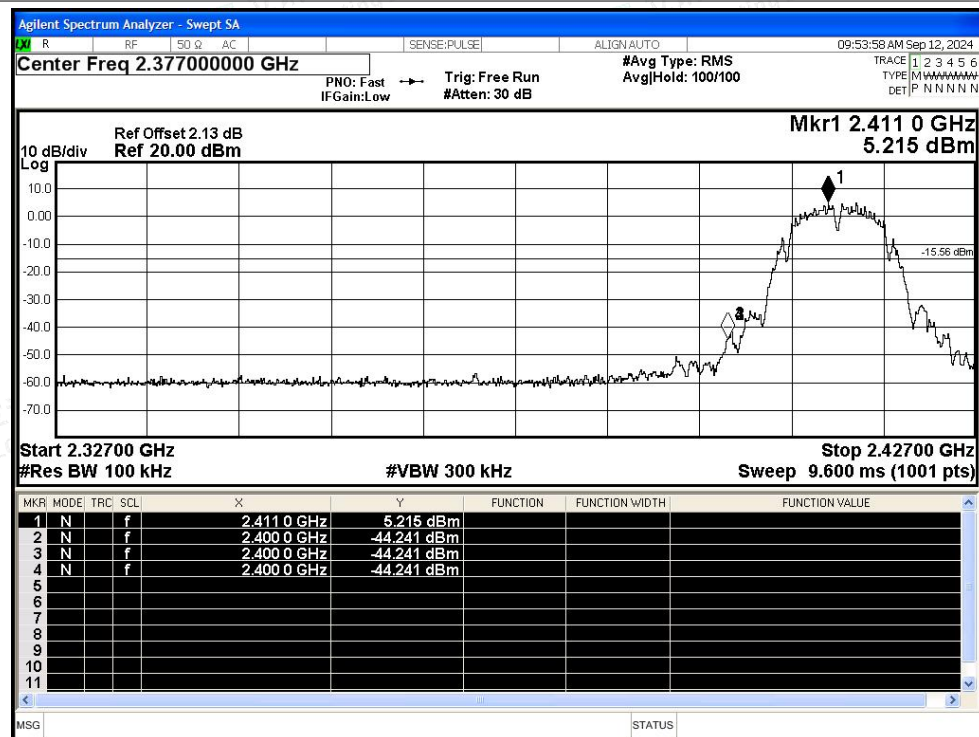


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



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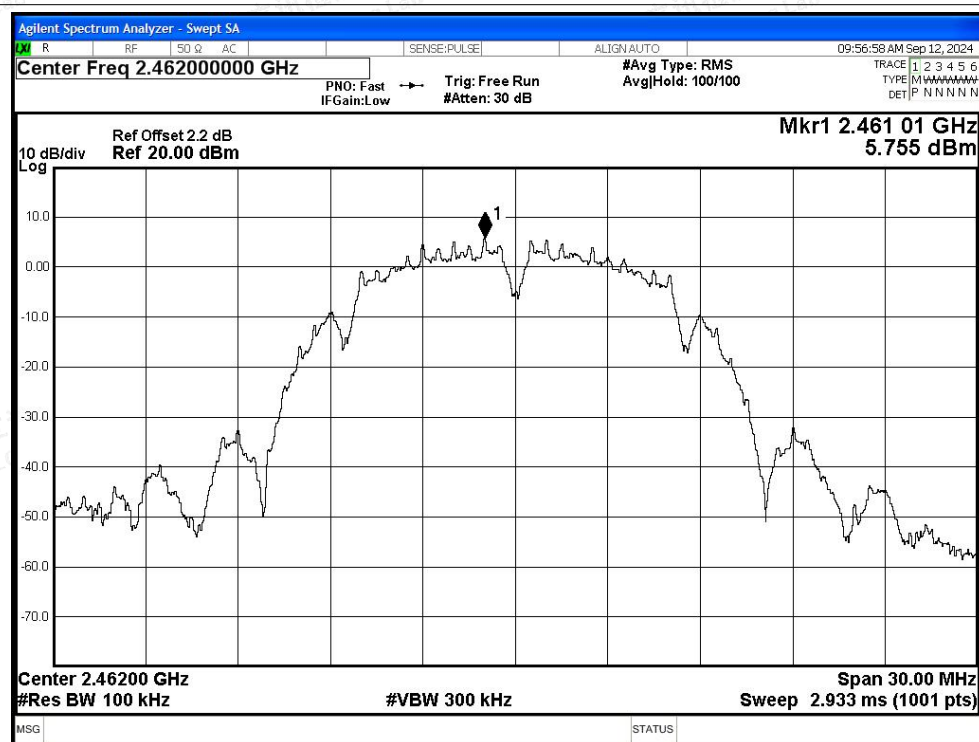
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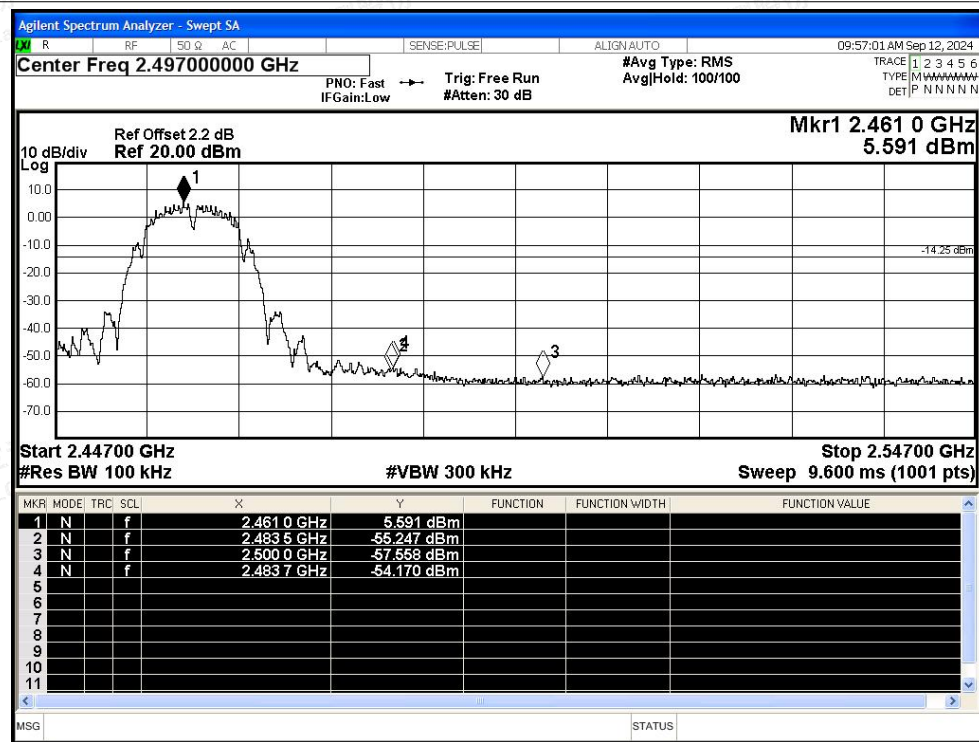
Scan code to check authenticity

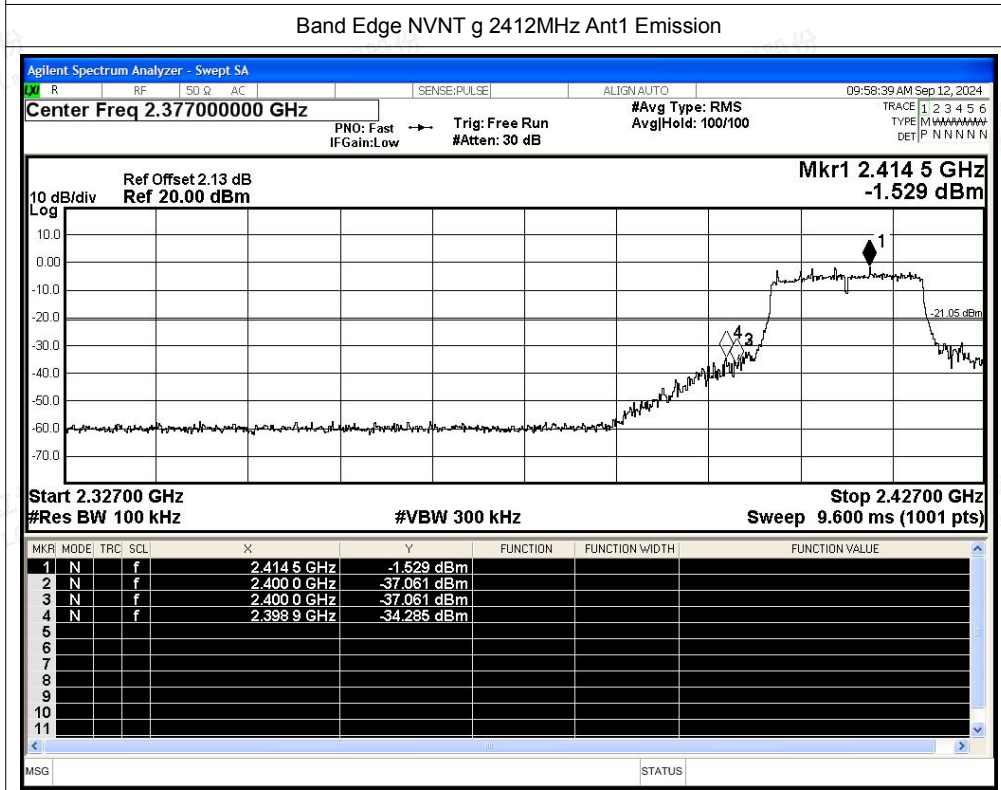
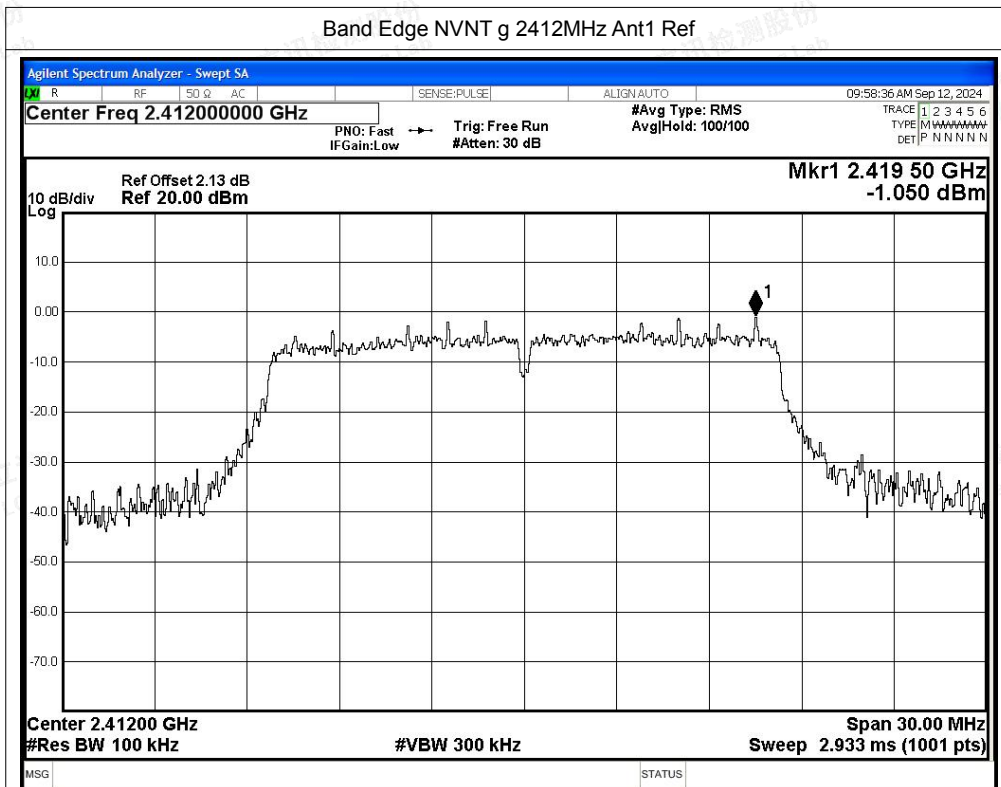


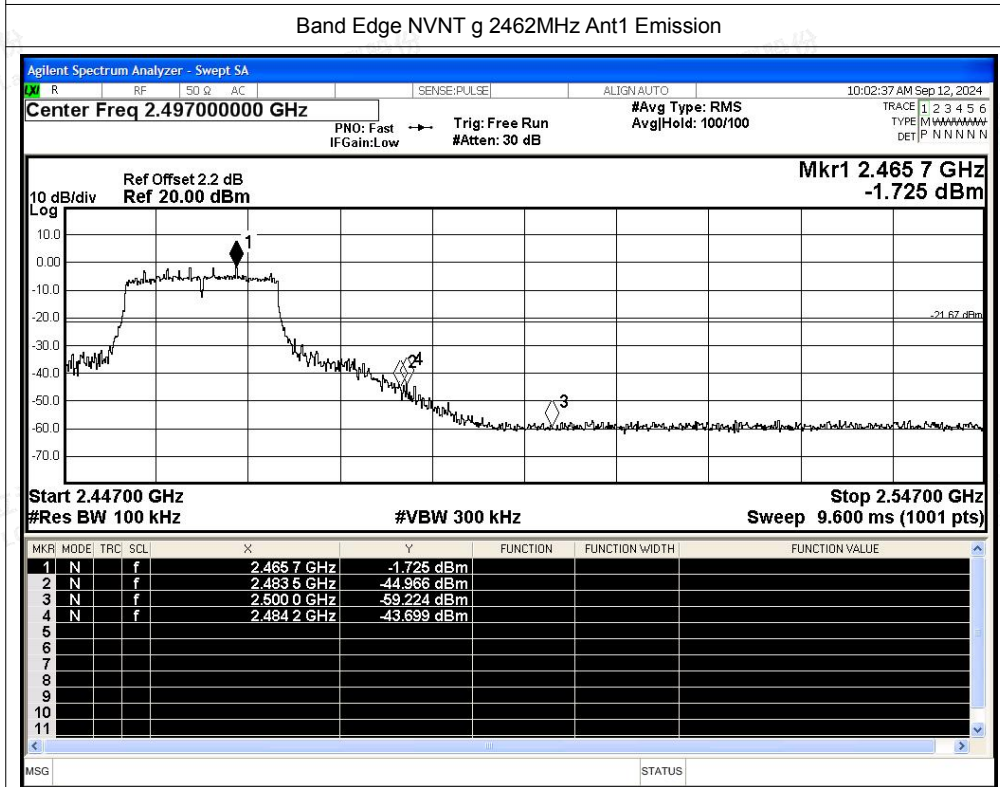
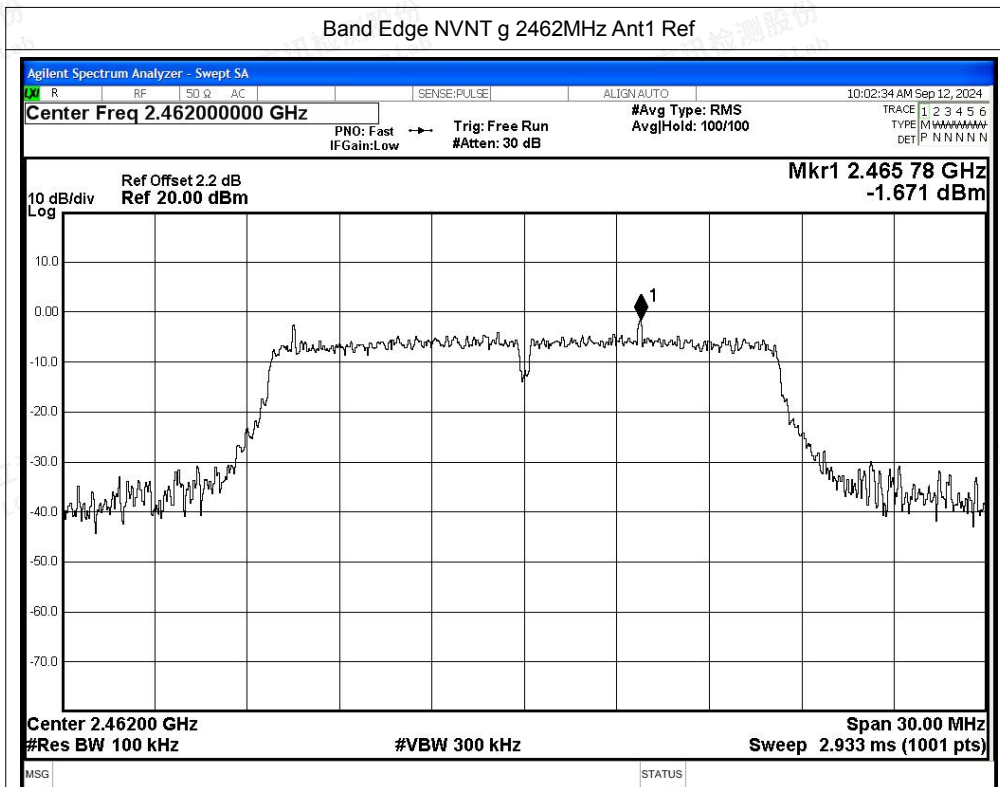
## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission

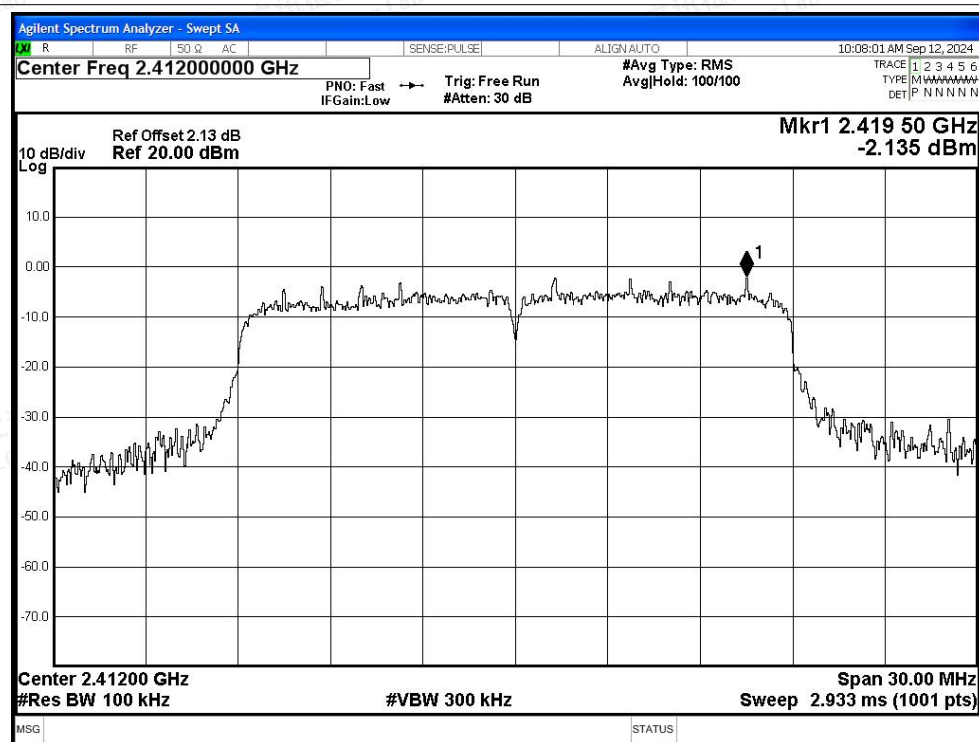




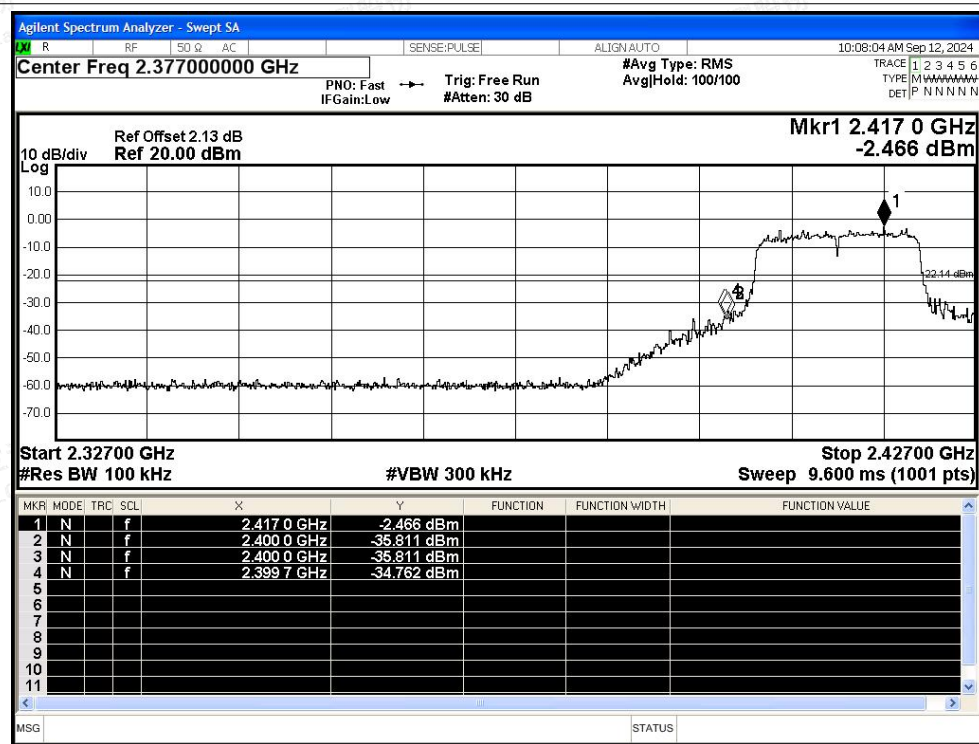




## Band Edge NVNT n20 2412MHz Ant1 Ref

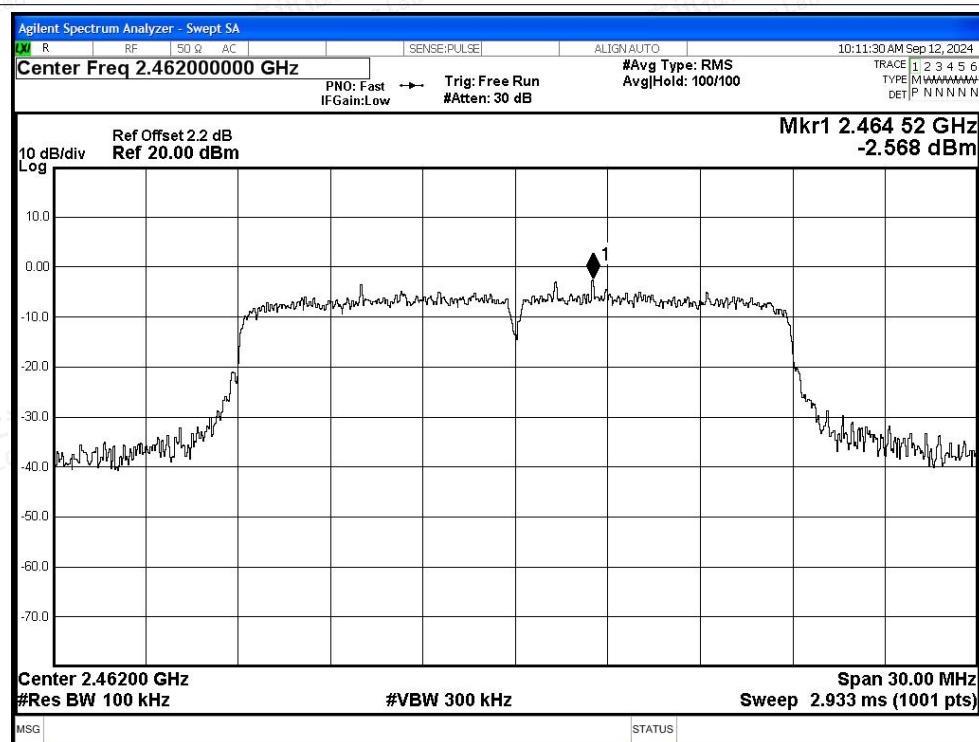


## Band Edge NVNT n20 2412MHz Ant1 Emission

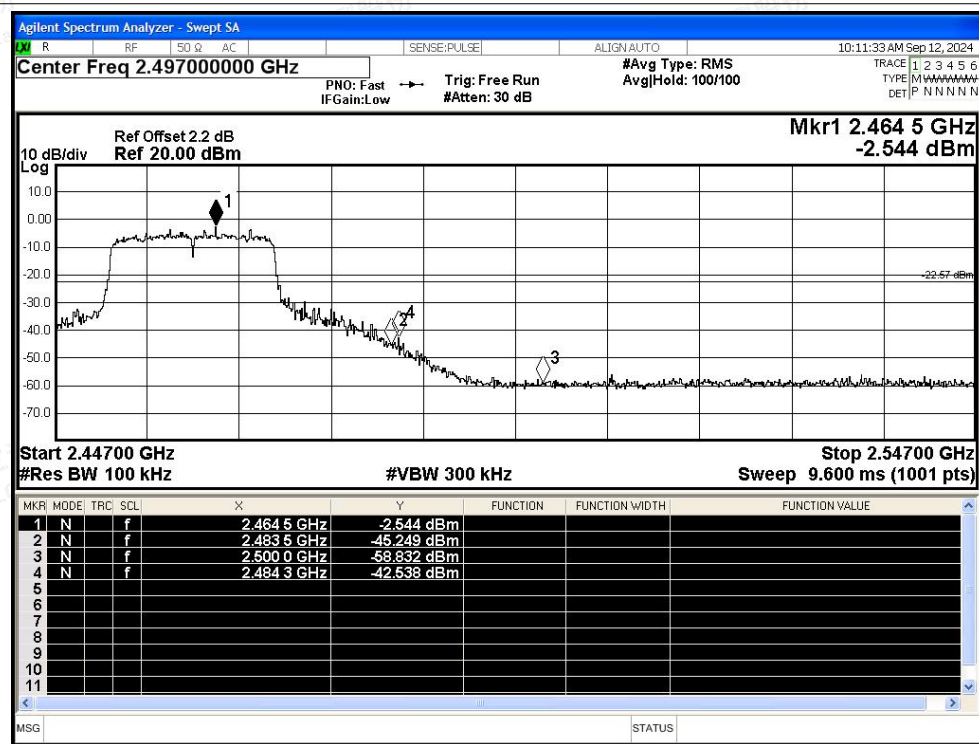




## Band Edge NVNT n20 2462MHz Ant1 Ref

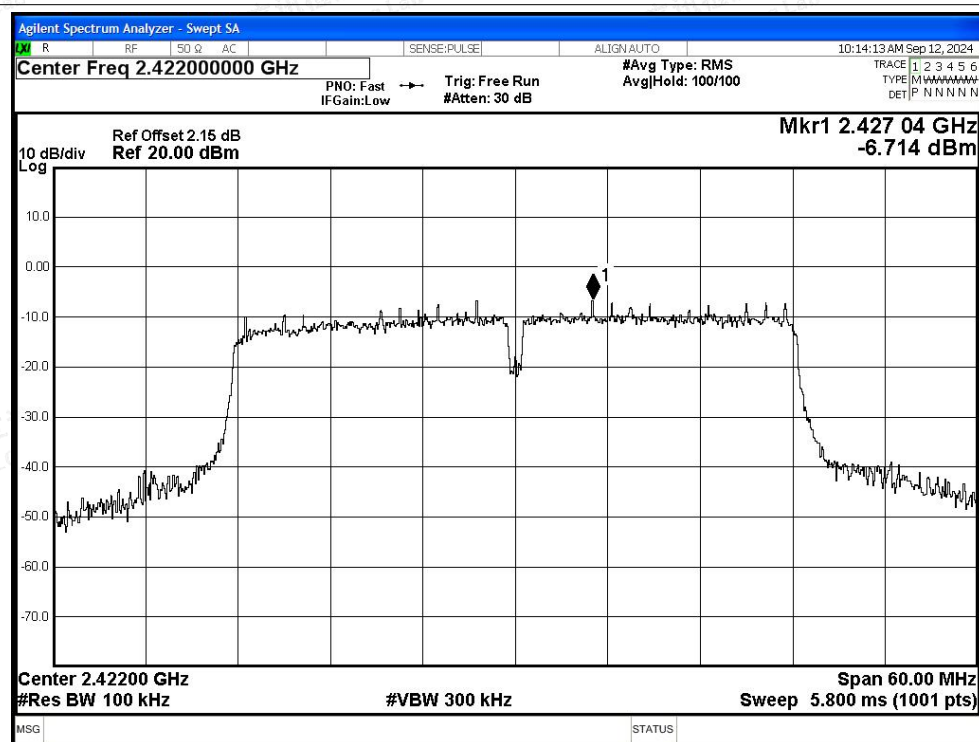


## Band Edge NVNT n20 2462MHz Ant1 Emission

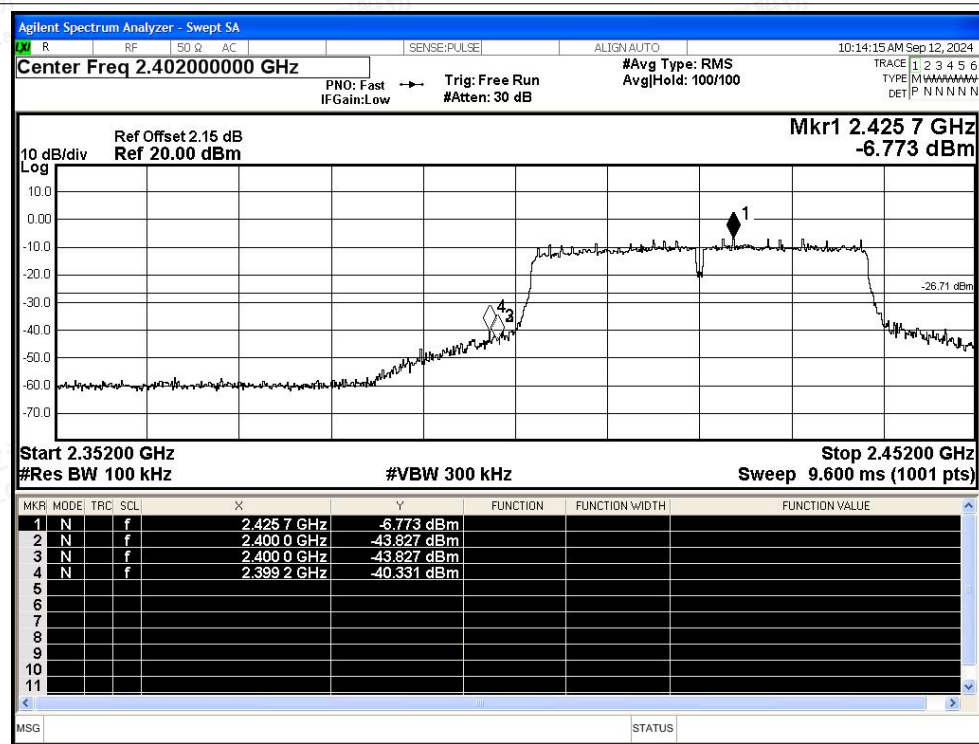




## Band Edge NVNT n40 2422MHz Ant1 Ref

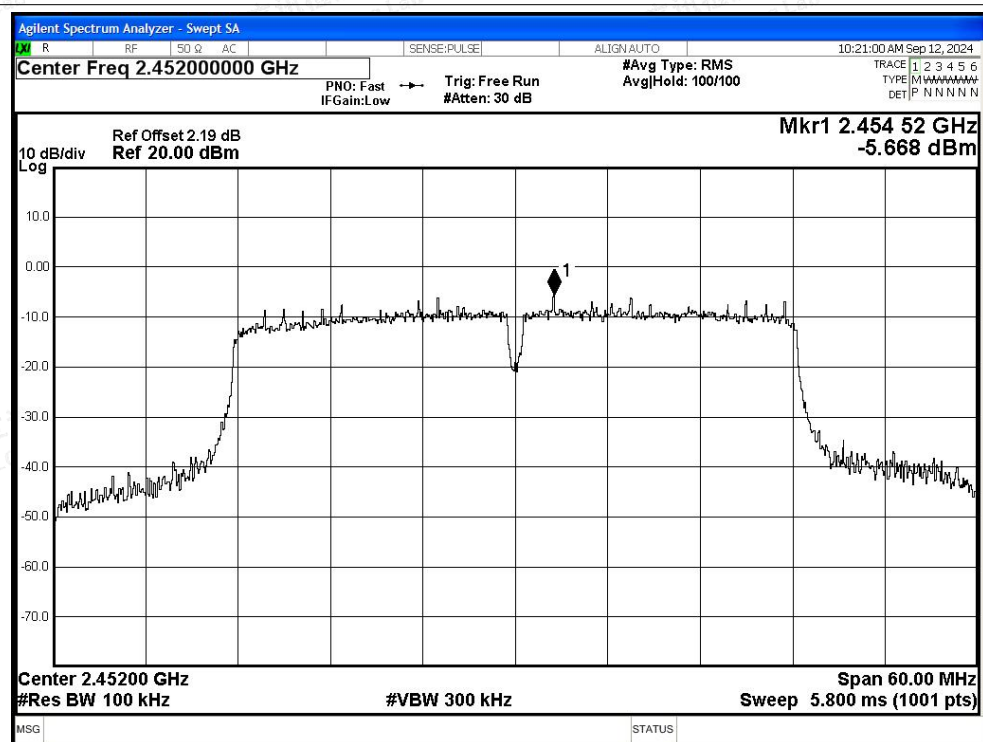


## Band Edge NVNT n40 2422MHz Ant1 Emission





## Band Edge NVNT n40 2452MHz Ant1 Ref



## Band Edge NVNT n40 2452MHz Ant1 Emission

