



## Appendix C

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

Product Name: Formuler Z12 Pro

Test Model: Z12 Pro

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24.8°C    |
| Relative Humidity: | 52.2%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jerry Chu |
| Supervised by:     | Can Kun   |



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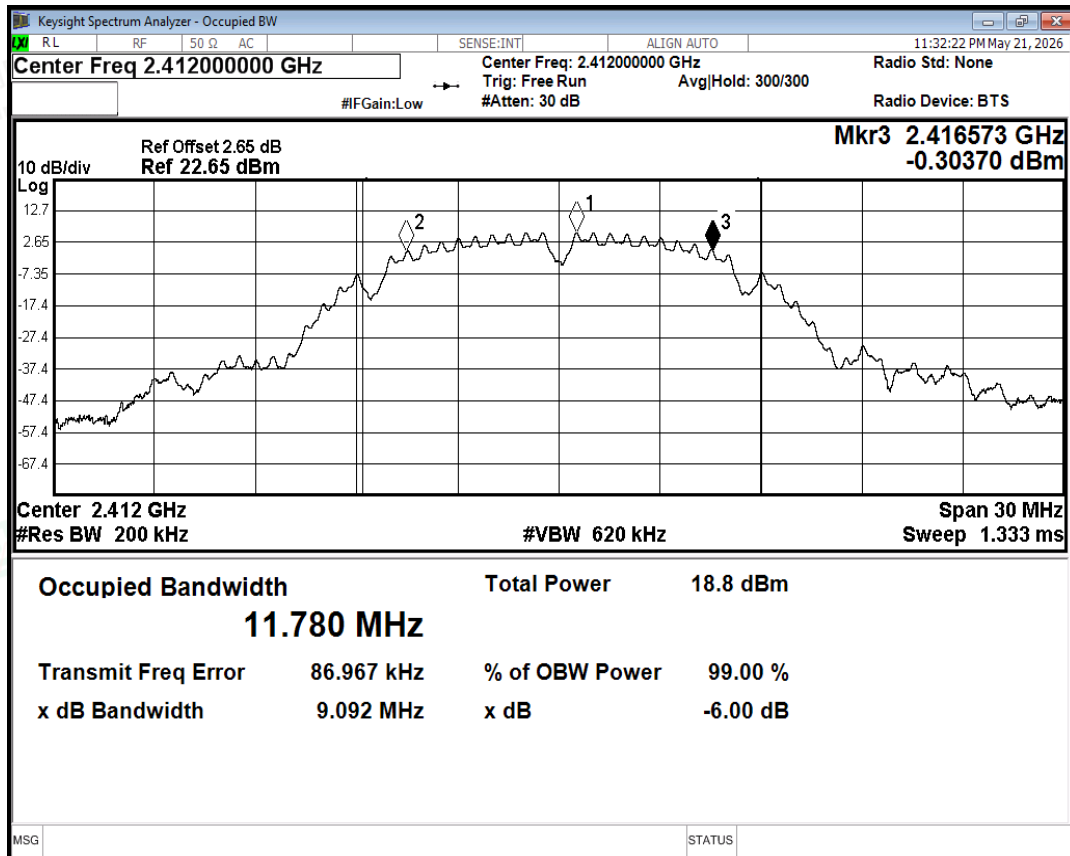


## C.1 -6dB Bandwidth

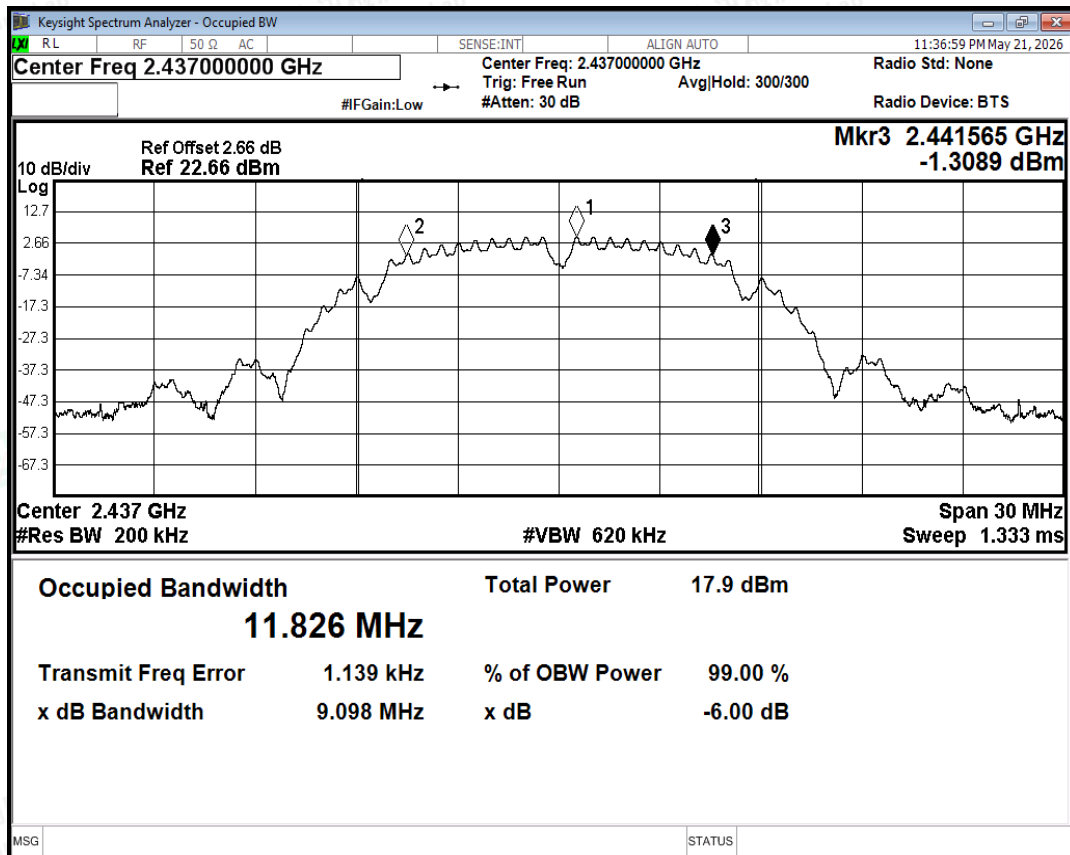
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 9.092                 | 0.5                         | Pass    |
| NVNT      | b    | 2437            | Ant1    | 9.098                 | 0.5                         | Pass    |
| NVNT      | b    | 2462            | Ant1    | 9.109                 | 0.5                         | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.25                 | 0.5                         | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.34                 | 0.5                         | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.37                 | 0.5                         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 17.17                 | 0.5                         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.33                 | 0.5                         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.3                  | 0.5                         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 35.83                 | 0.5                         | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 35.82                 | 0.5                         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 35.8                  | 0.5                         | Pass    |

Note :offset=System attenuation +cabal loss





-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1

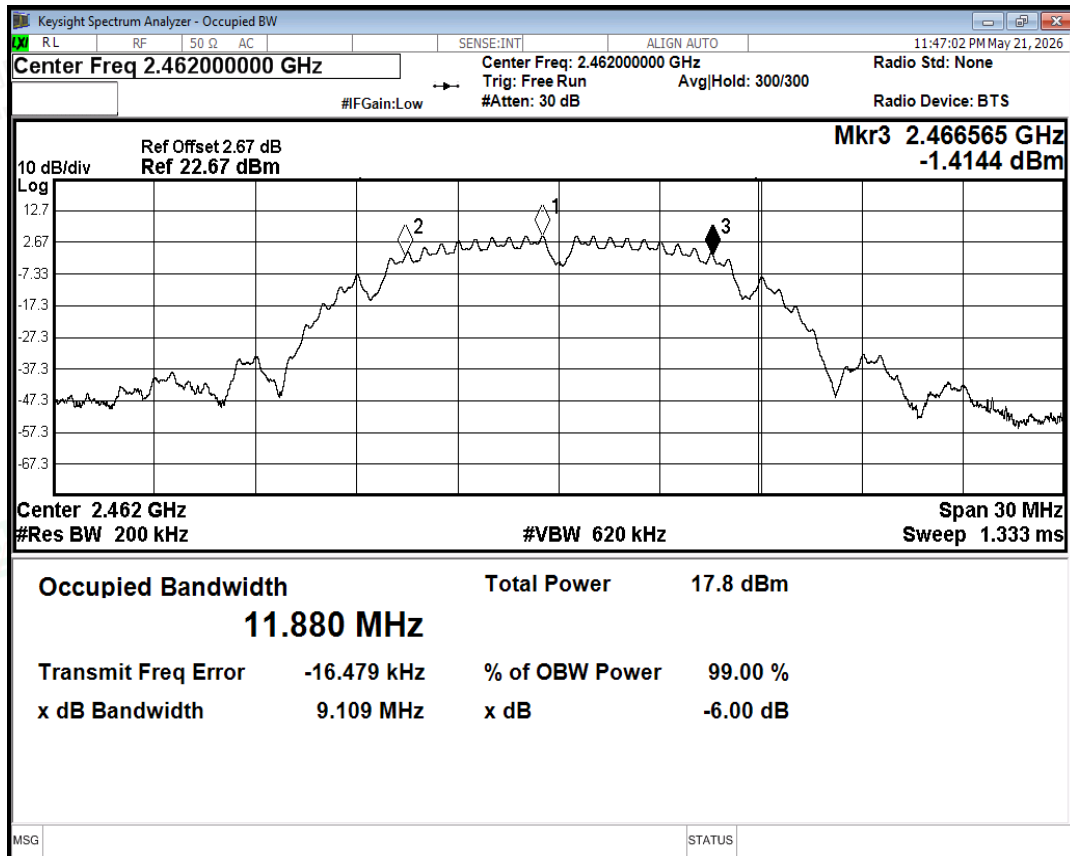


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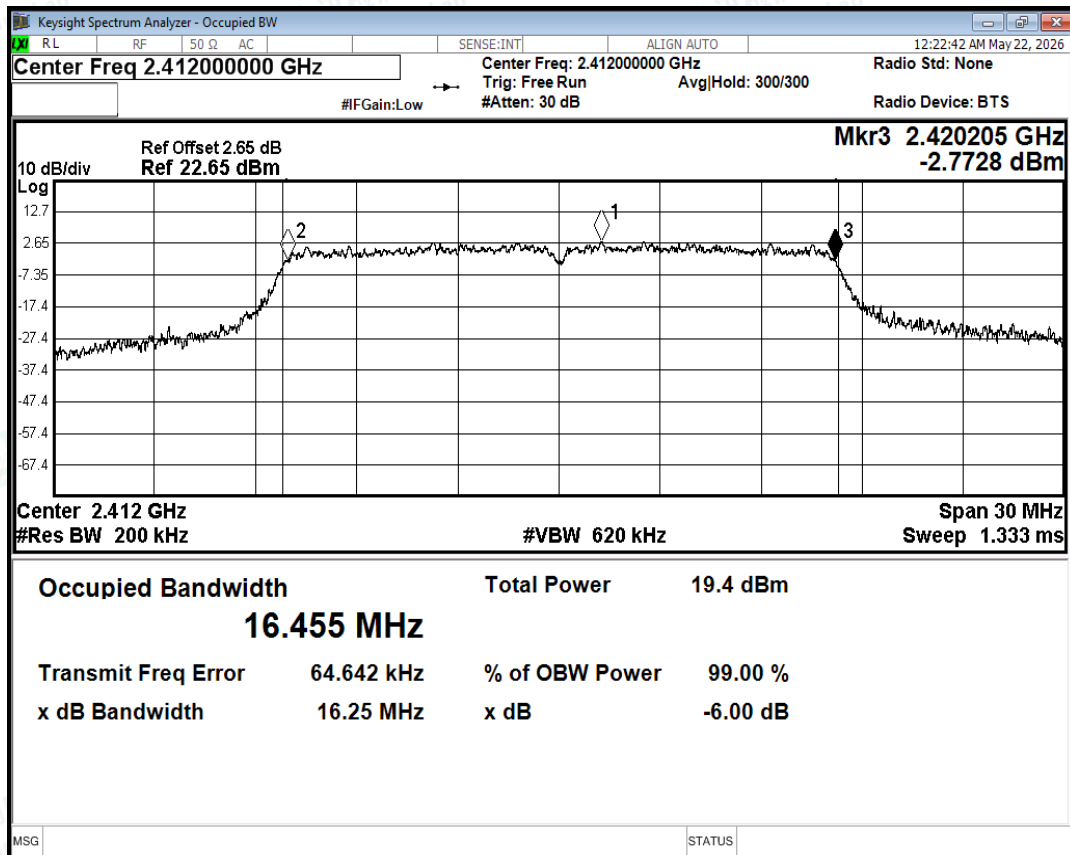
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

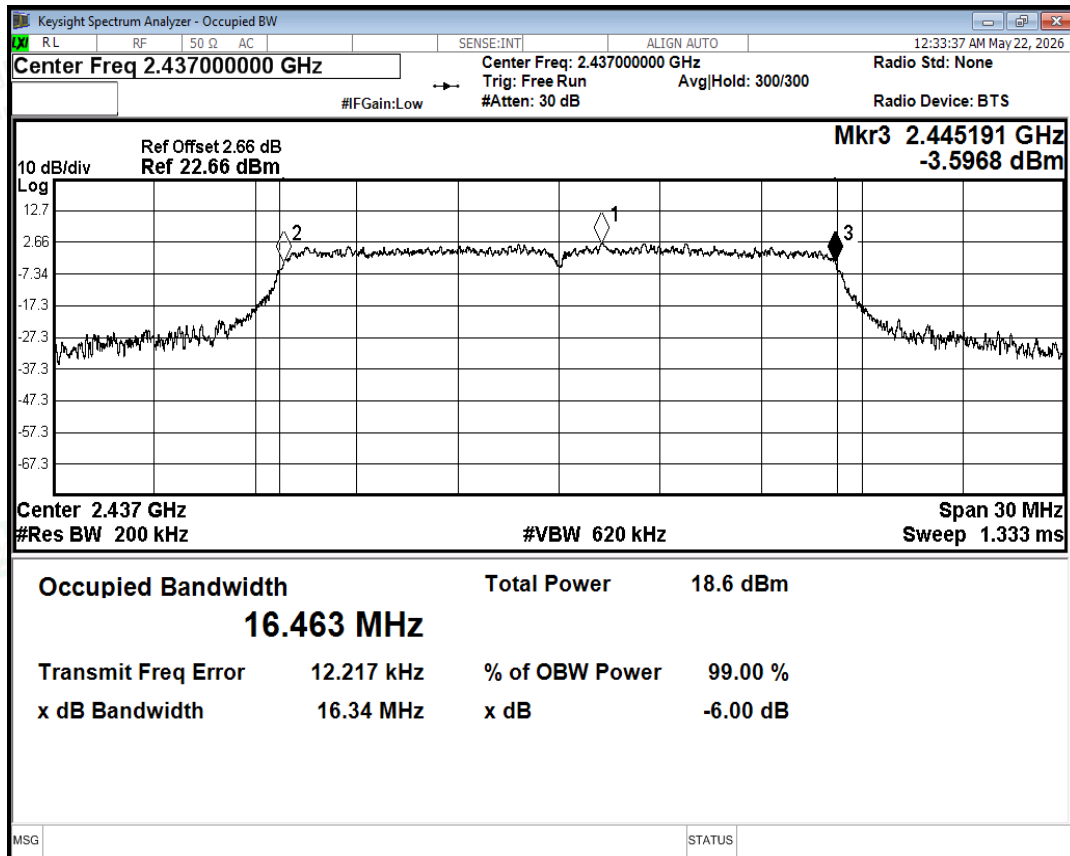


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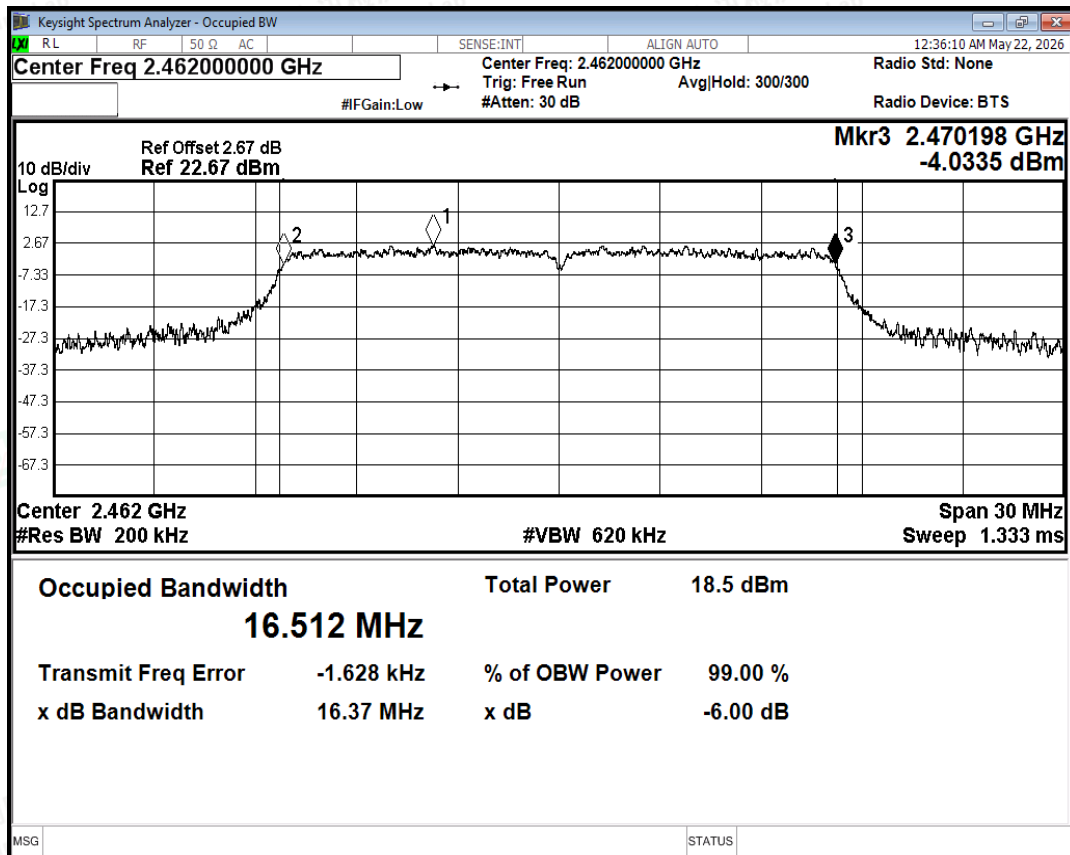
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1

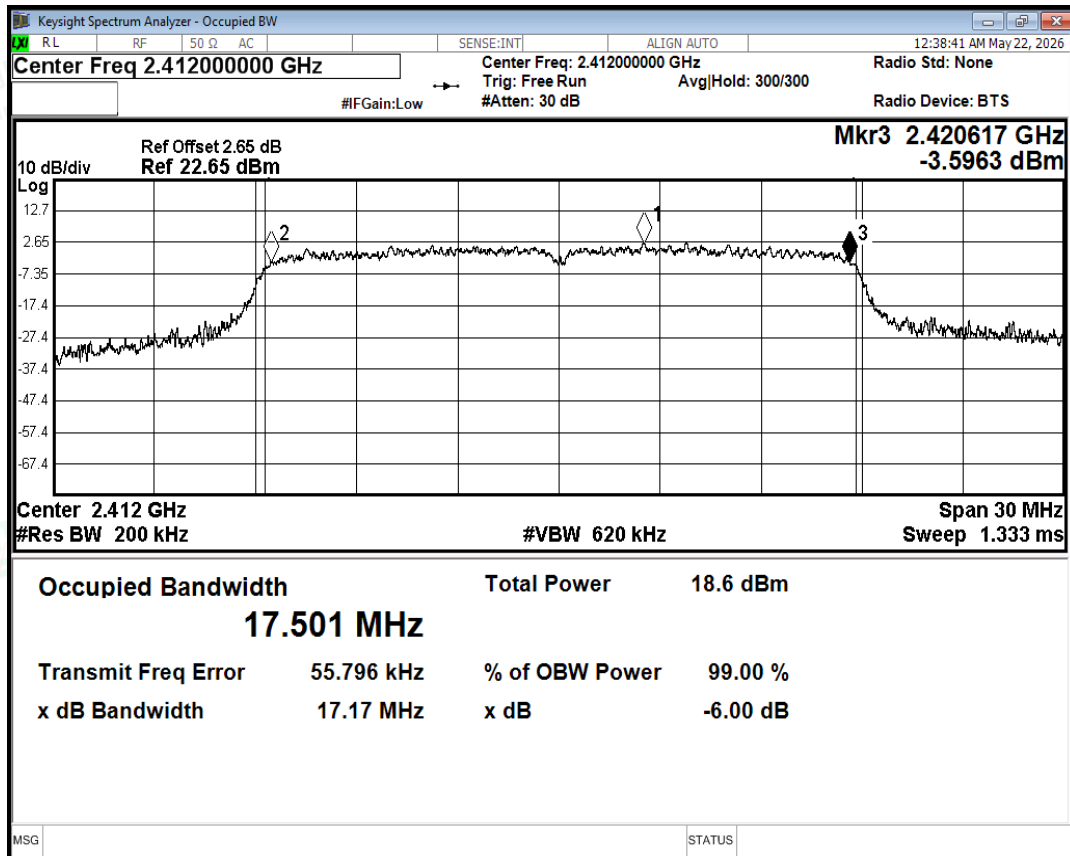


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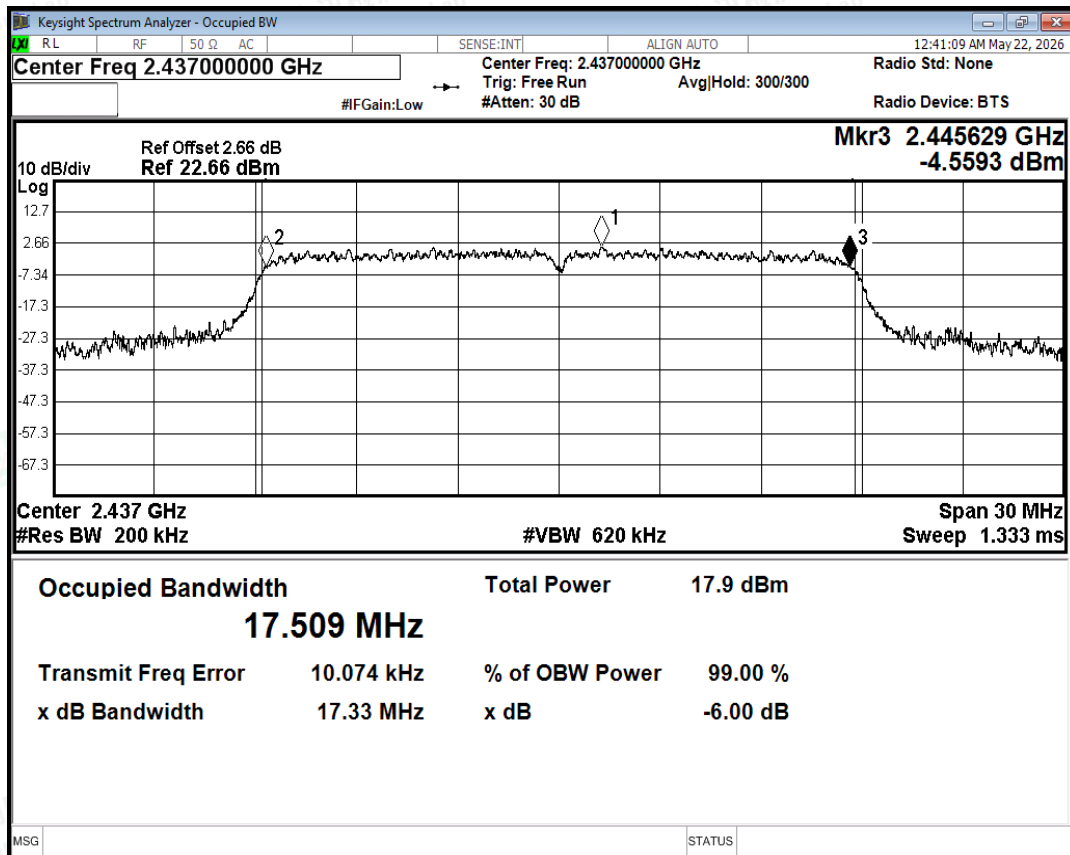
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

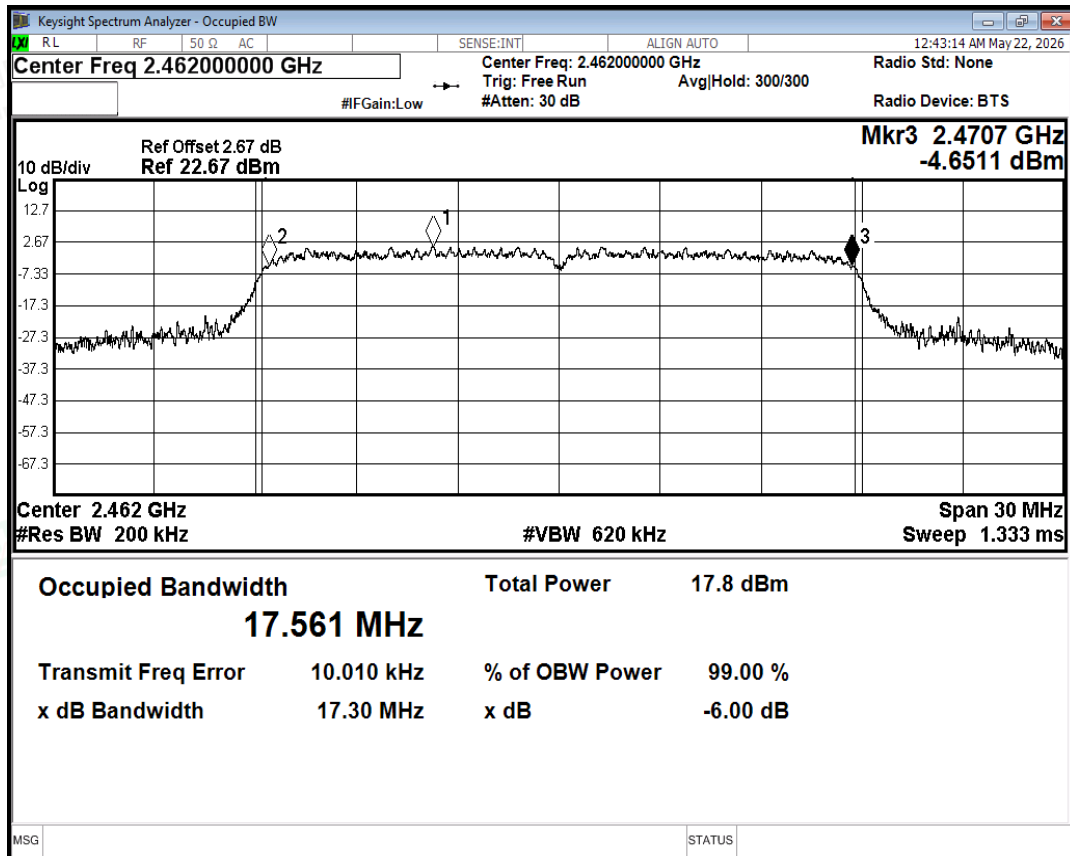


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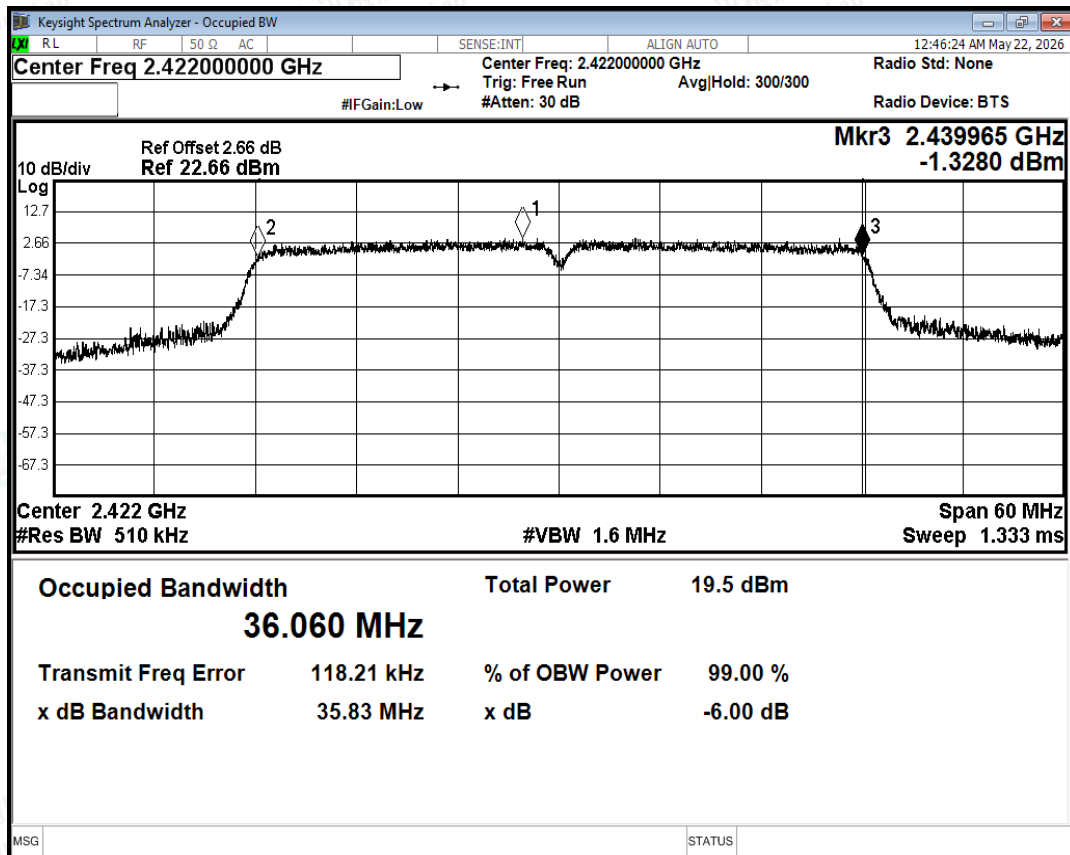
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-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1

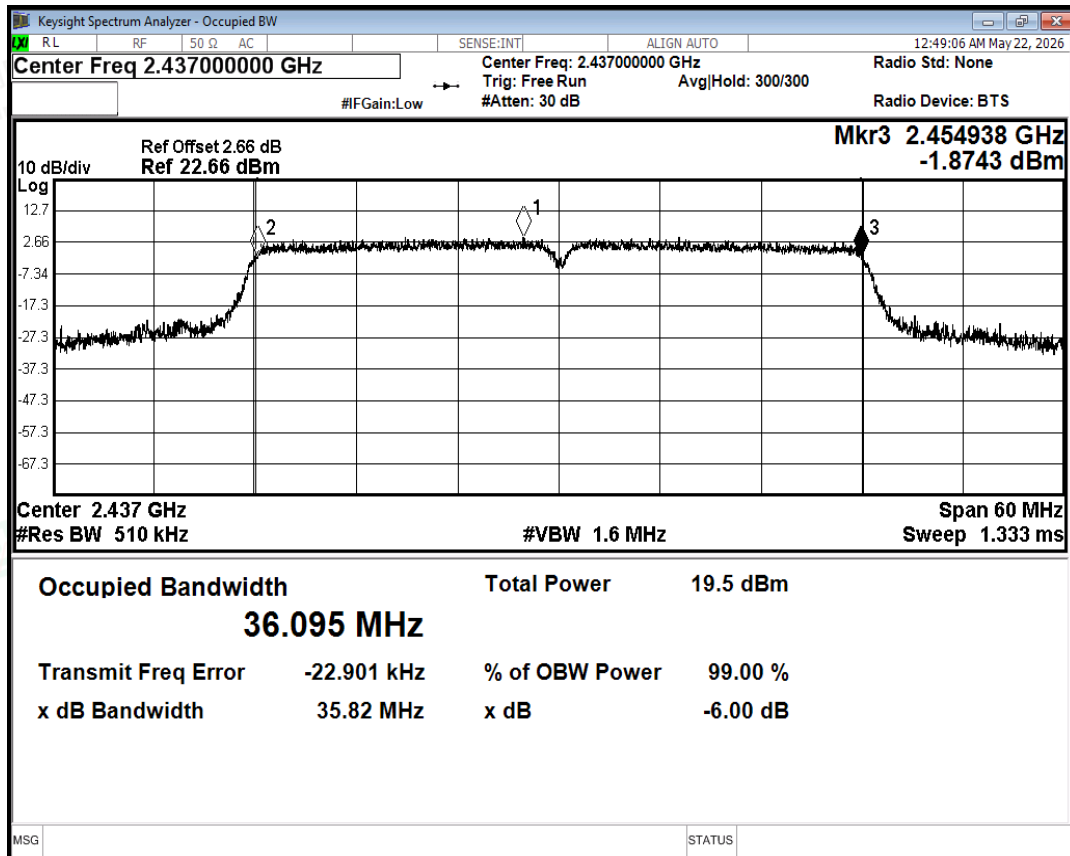


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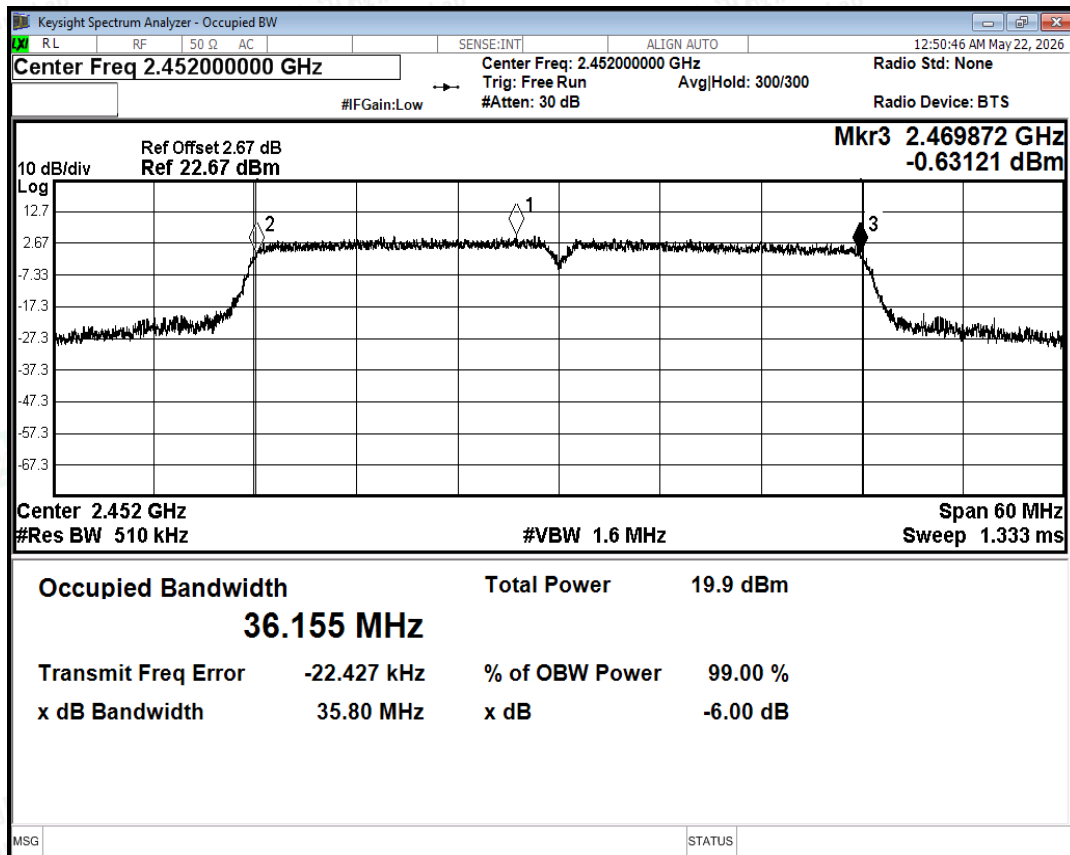
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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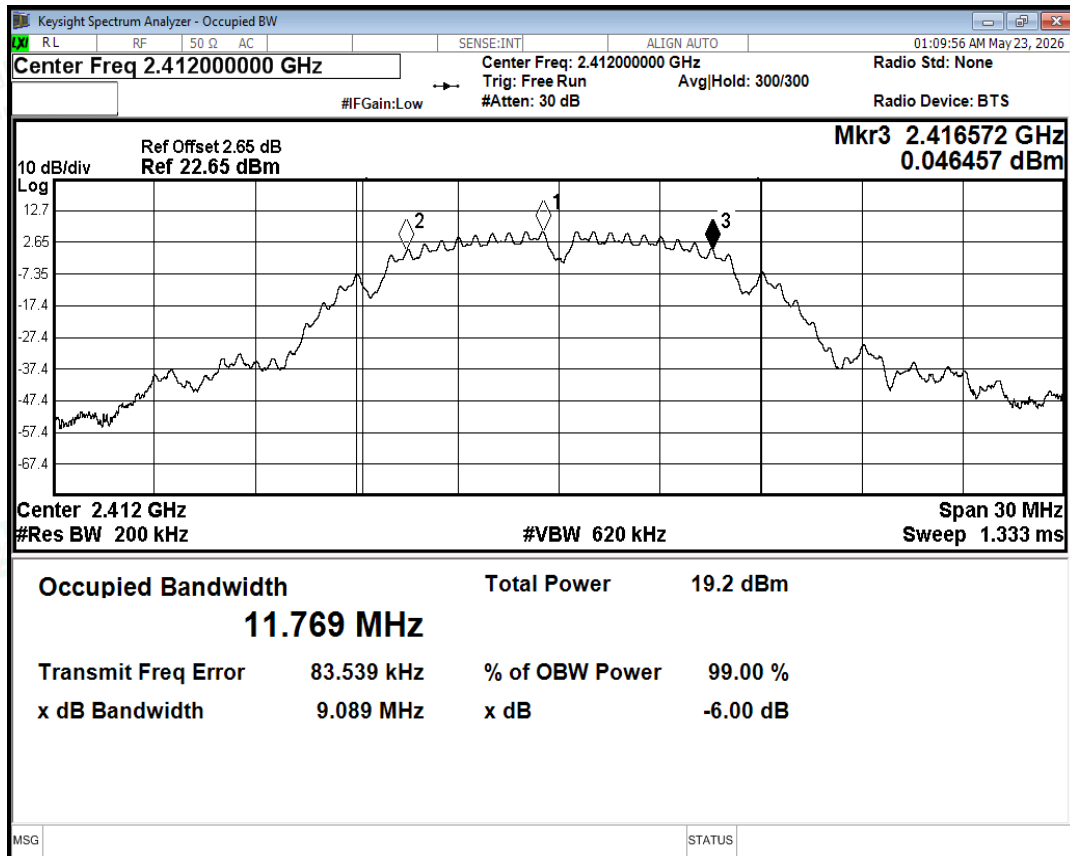
Scan code to check authenticity



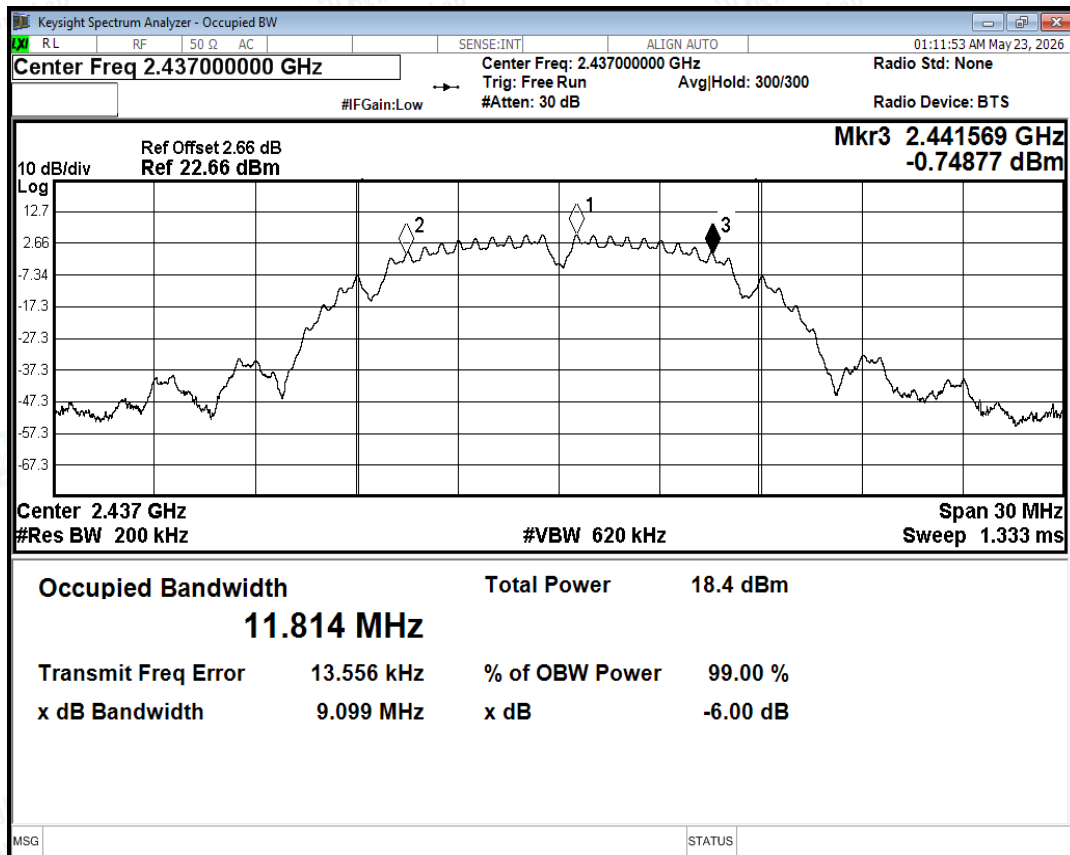
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant2    | 9.089                 | 0.5                         | Pass    |
| NVNT      | b    | 2437            | Ant2    | 9.099                 | 0.5                         | Pass    |
| NVNT      | b    | 2462            | Ant2    | 9.11                  | 0.5                         | Pass    |
| NVNT      | g    | 2412            | Ant2    | 16.26                 | 0.5                         | Pass    |
| NVNT      | g    | 2437            | Ant2    | 16.37                 | 0.5                         | Pass    |
| NVNT      | g    | 2462            | Ant2    | 16.36                 | 0.5                         | Pass    |
| NVNT      | n20  | 2412            | Ant2    | 17.14                 | 0.5                         | Pass    |
| NVNT      | n20  | 2437            | Ant2    | 17.17                 | 0.5                         | Pass    |
| NVNT      | n20  | 2462            | Ant2    | 17.48                 | 0.5                         | Pass    |
| NVNT      | n40  | 2422            | Ant2    | 35.61                 | 0.5                         | Pass    |
| NVNT      | n40  | 2437            | Ant2    | 35.83                 | 0.5                         | Pass    |
| NVNT      | n40  | 2452            | Ant2    | 35.75                 | 0.5                         | Pass    |

Note :offset=System attenuation +cabal loss





-6dB Bandwidth NVNT b 2412MHz Ant2



-6dB Bandwidth NVNT b 2437MHz Ant2

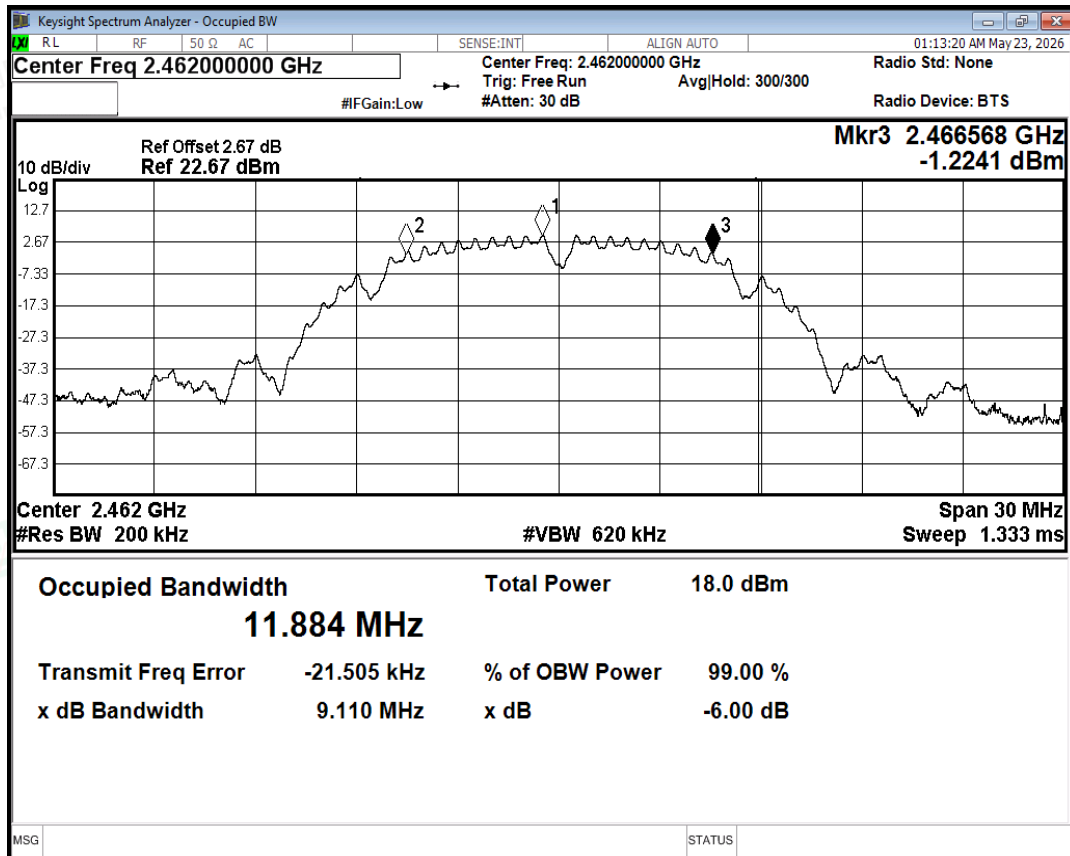


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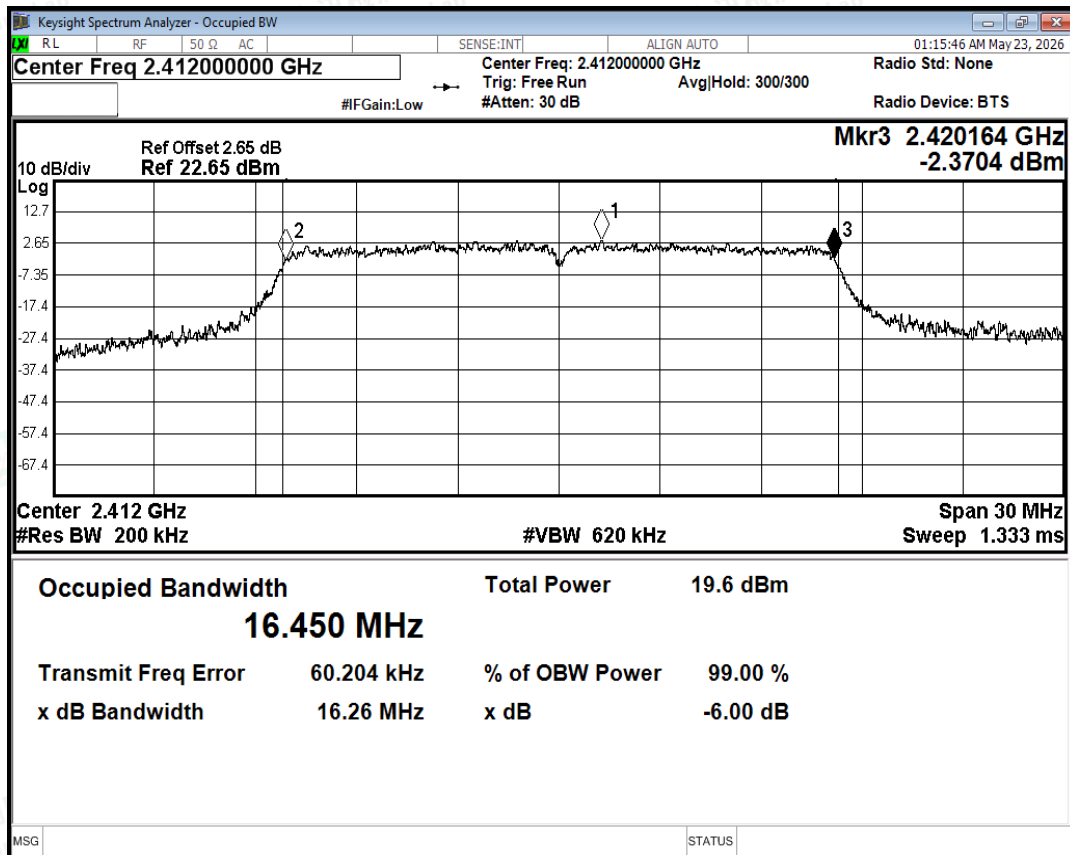
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-6dB Bandwidth NVNT b 2462MHz Ant2



-6dB Bandwidth NVNT g 2412MHz Ant2

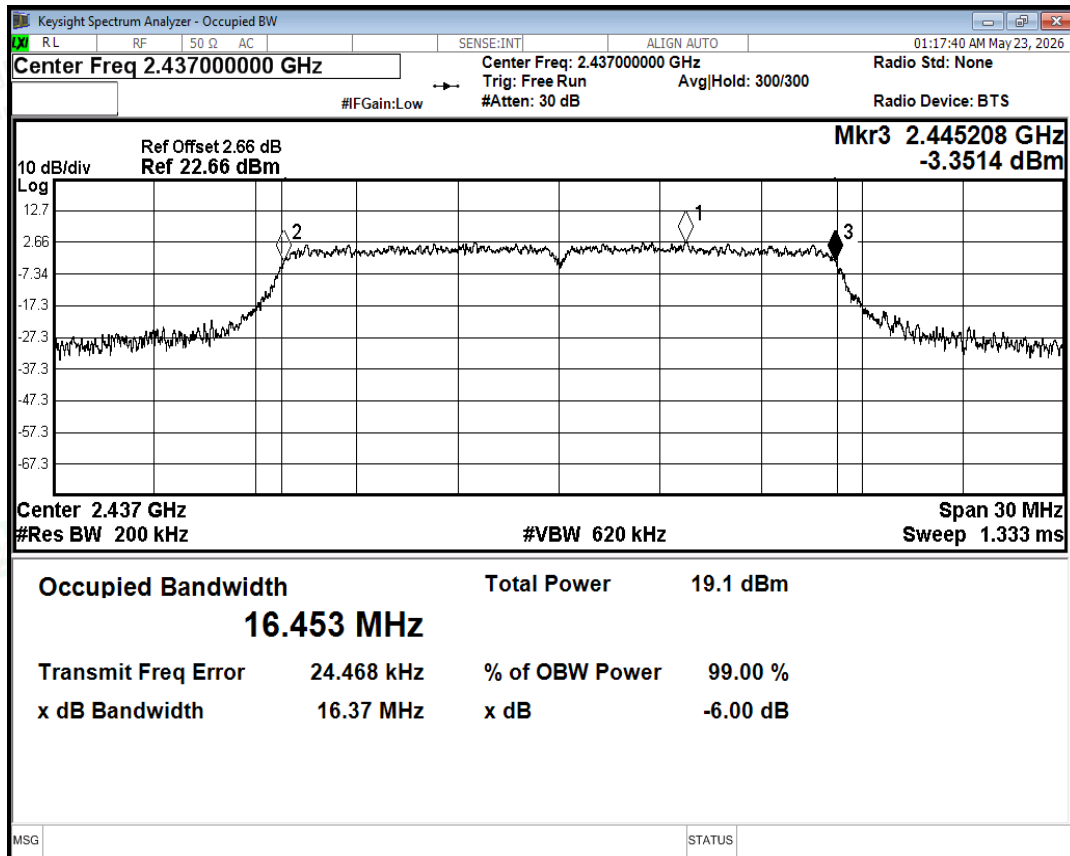


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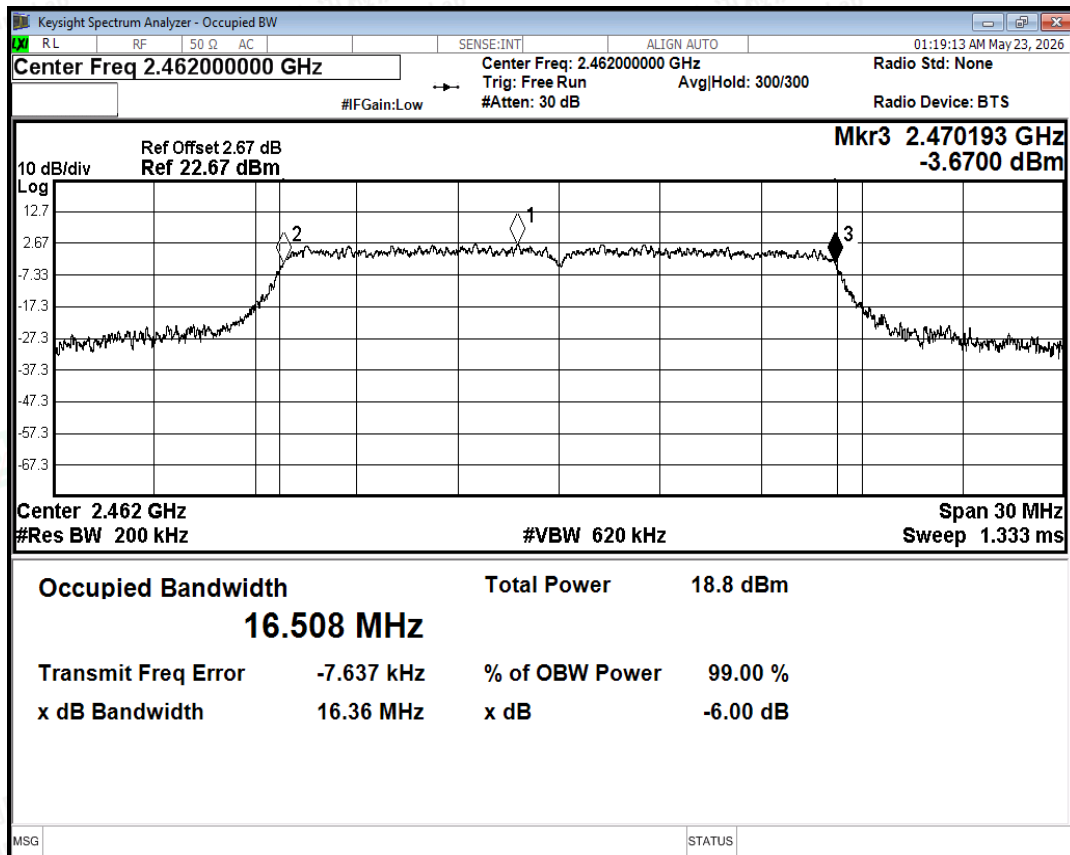
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-6dB Bandwidth NVNT g 2437MHz Ant2



-6dB Bandwidth NVNT g 2462MHz Ant2

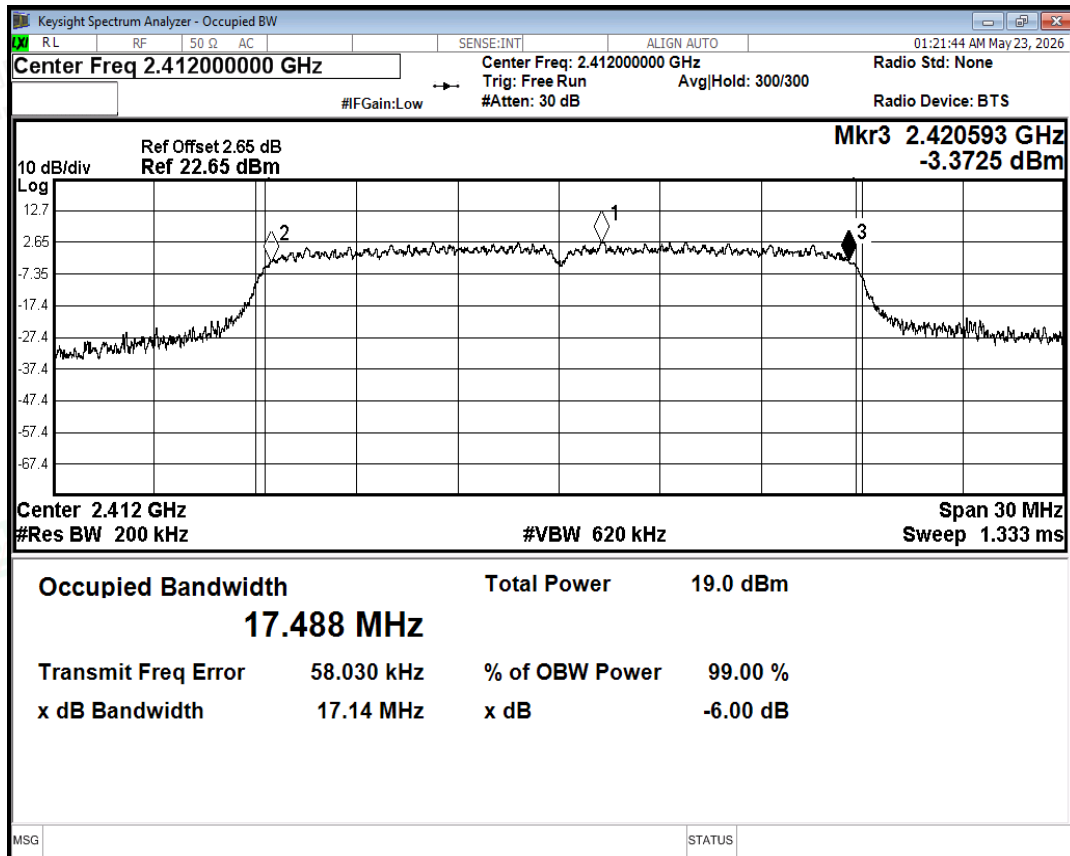


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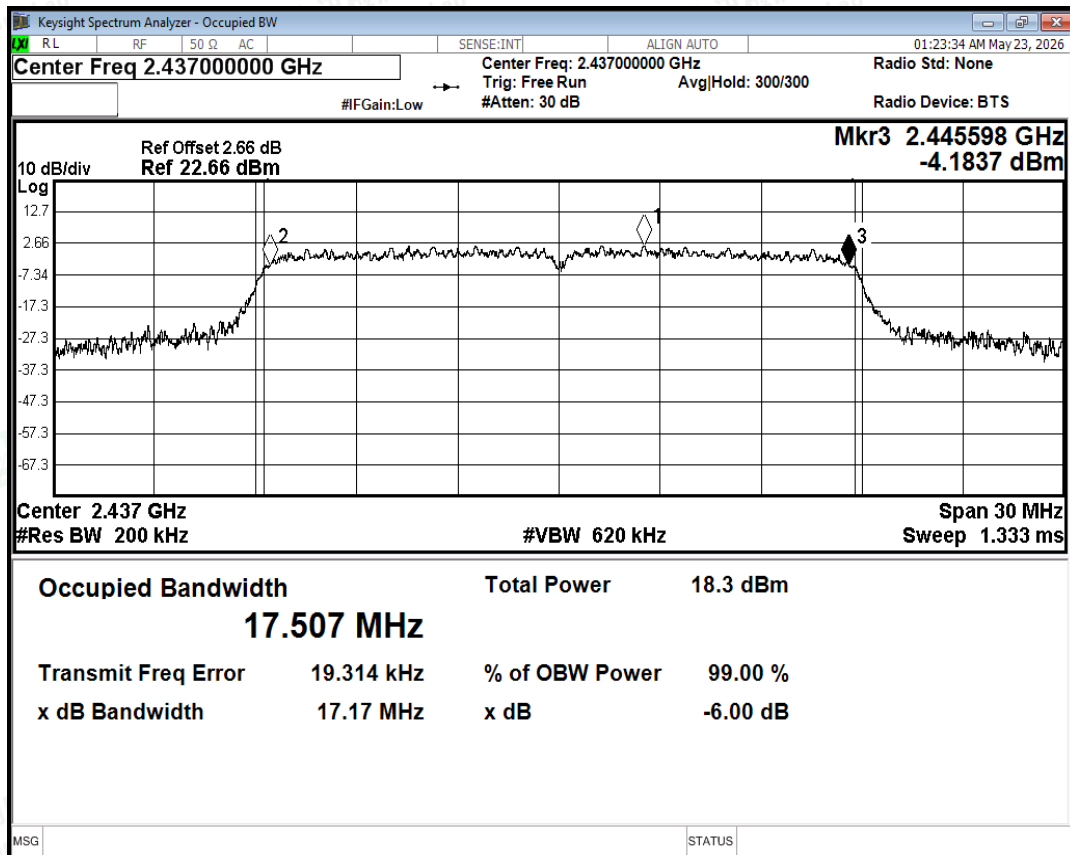
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-6dB Bandwidth NVNT n20 2412MHz Ant2



-6dB Bandwidth NVNT n20 2437MHz Ant2

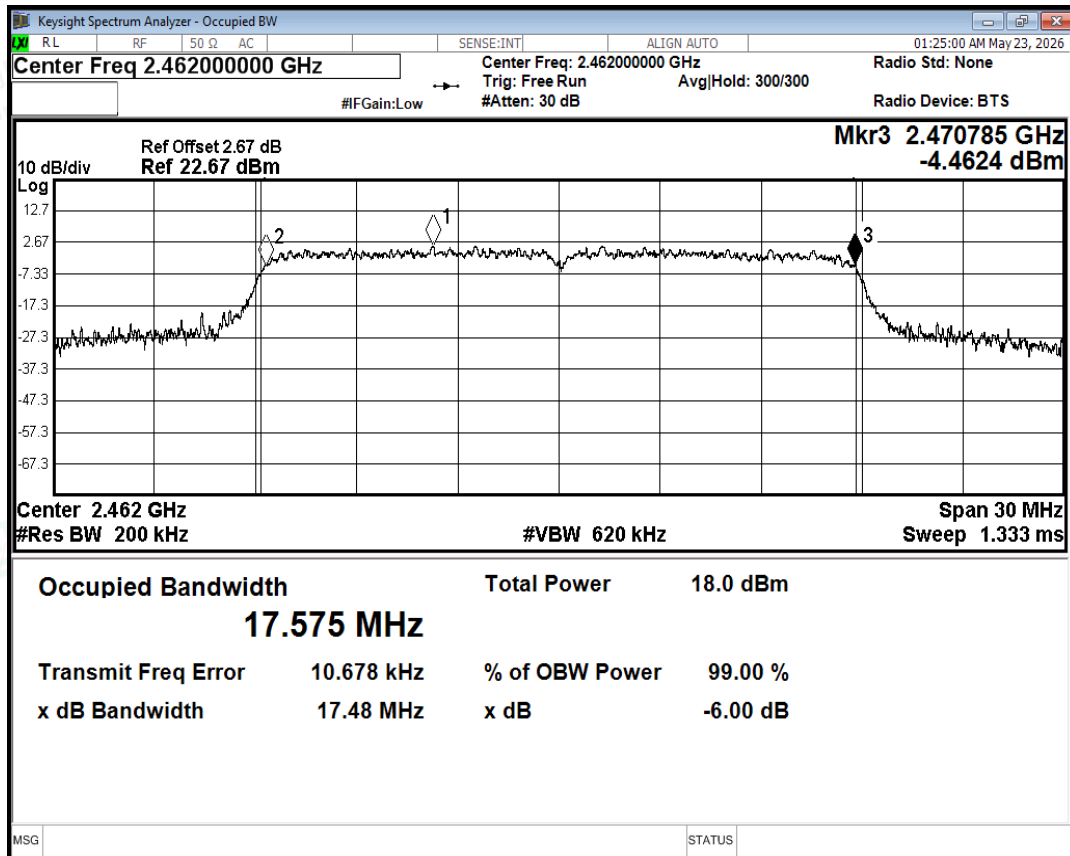


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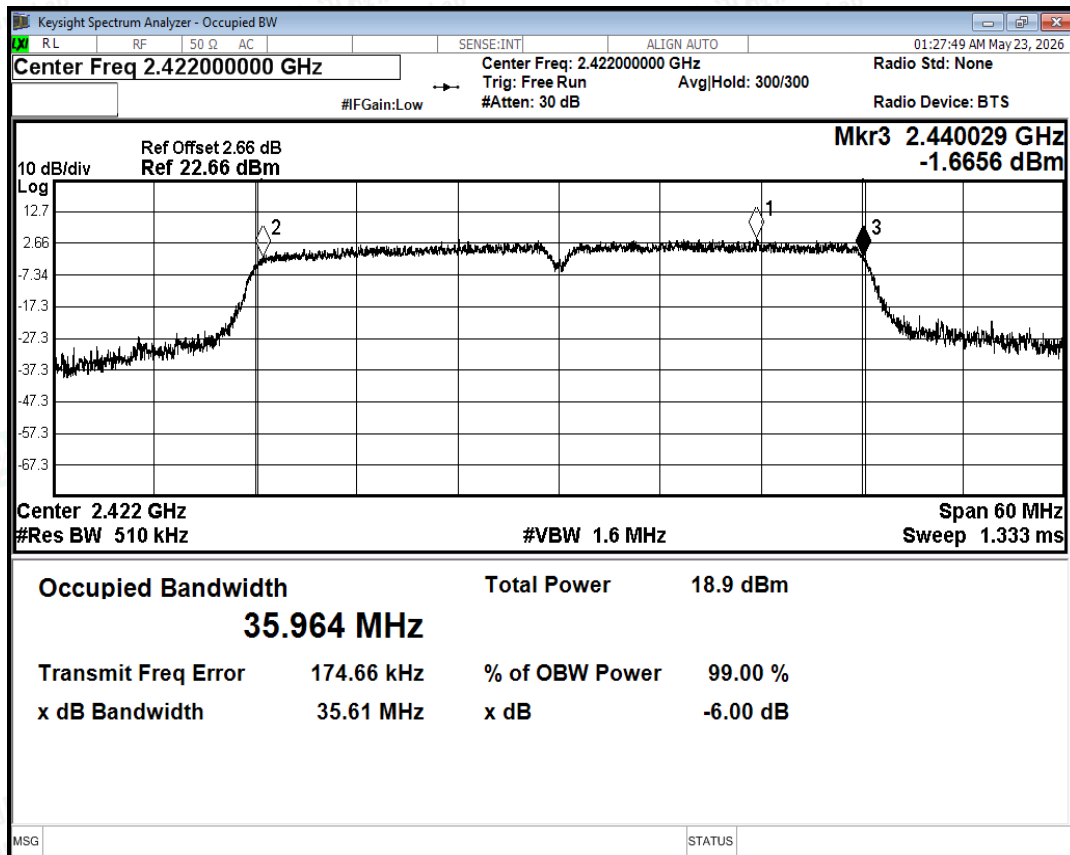
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-6dB Bandwidth NVNT n20 2462MHz Ant2



-6dB Bandwidth NVNT n40 2422MHz Ant2

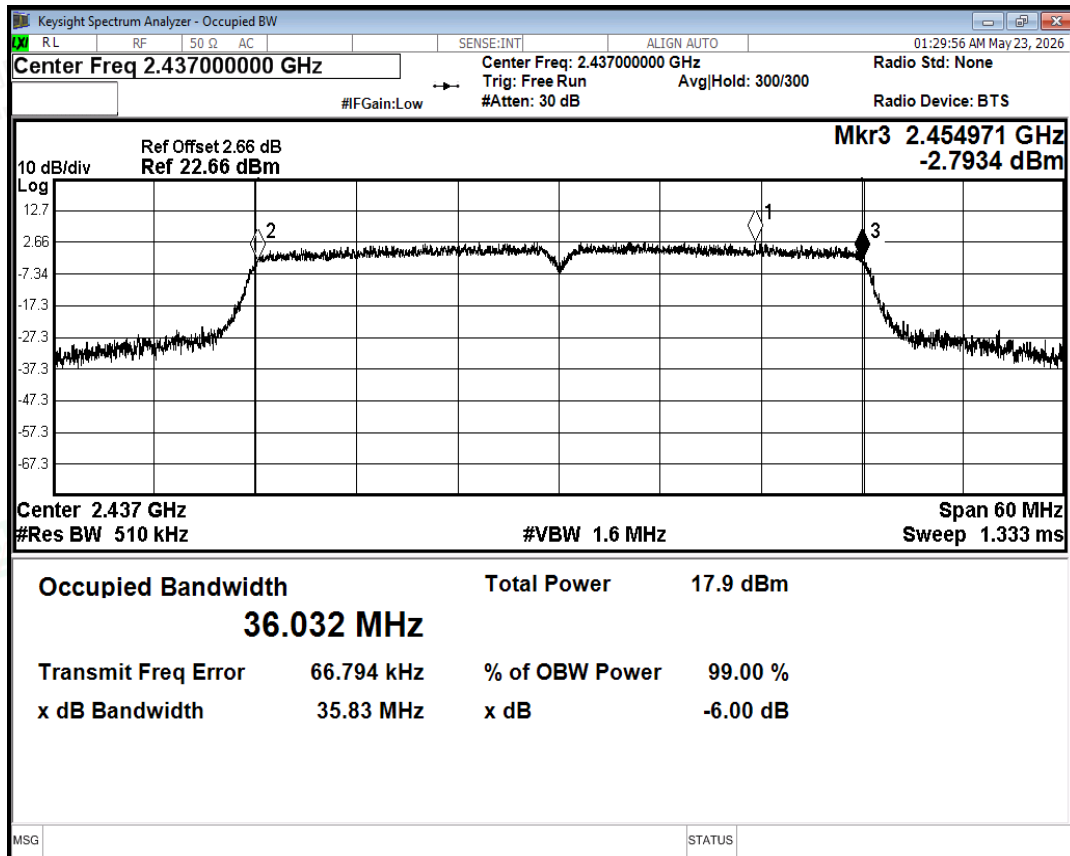


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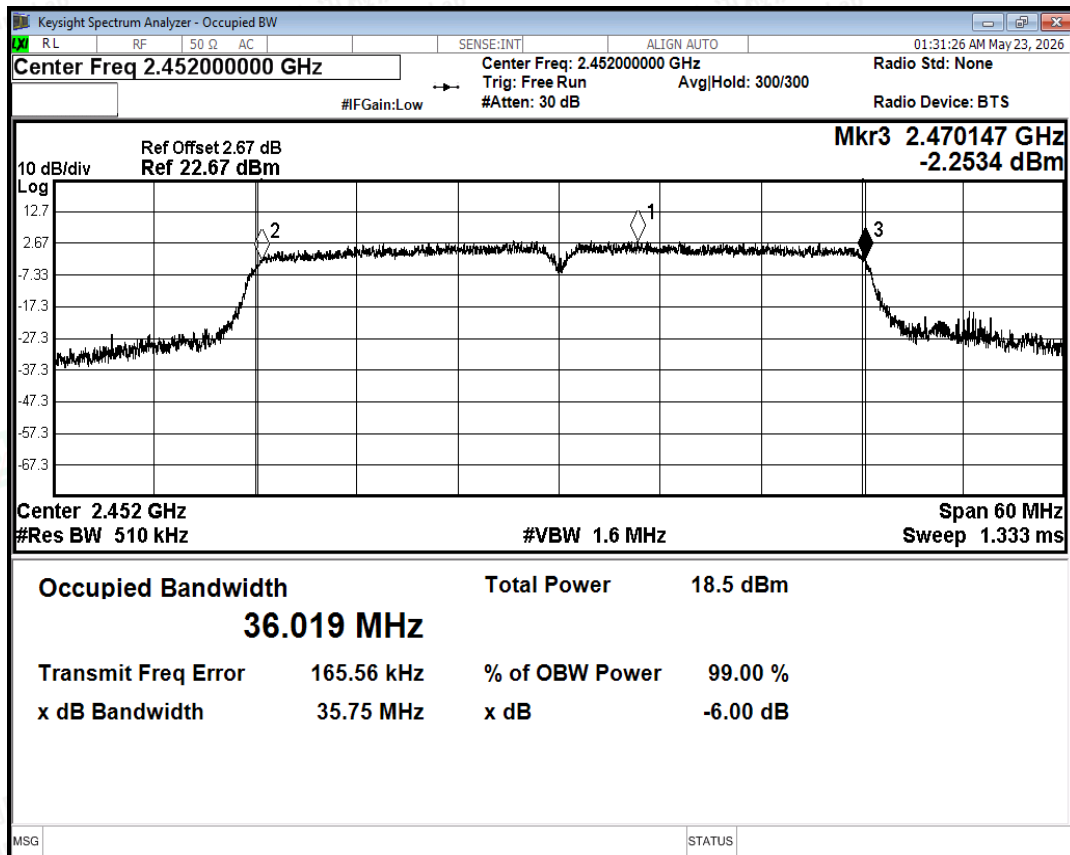
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-6dB Bandwidth NVNT n40 2437MHz Ant2



-6dB Bandwidth NVNT n40 2452MHz Ant2



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### C.3 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Conducted Power (dBm) | Limit Conducted(dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-----------------------------|----------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 17.69                 | 0.03             | 17.72                       | 30                   | Pass    |
| NVNT      | b    | 2437            | Ant1    | 17.98                 | 0.03             | 18.01                       | 30                   | Pass    |
| NVNT      | b    | 2462            | Ant1    | 17.77                 | 0.03             | 17.8                        | 30                   | Pass    |
| NVNT      | g    | 2412            | Ant1    | 17.1                  | 0.19             | 17.29                       | 30                   | Pass    |
| NVNT      | g    | 2437            | Ant1    | 17.4                  | 0.19             | 17.59                       | 30                   | Pass    |
| NVNT      | g    | 2462            | Ant1    | 17.2                  | 0.19             | 17.39                       | 30                   | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16                    | 0.22             | 16.22                       | 30                   | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 16.41                 | 0.22             | 16.63                       | 30                   | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 16.13                 | 0.23             | 16.36                       | 30                   | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 14.92                 | 0.42             | 15.34                       | 30                   | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 14.56                 | 0.44             | 15.0                        | 30                   | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 14.45                 | 0.44             | 14.89                       | 30                   | Pass    |

Note :offset=System attenuation +cabel loss

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Conducted Power (dBm) | Limit Conducted(dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-----------------------------|----------------------|---------|
| NVNT      | b    | 2412            | Ant2    | 17.2                  | 0.03             | 17.23                       | 30                   | Pass    |
| NVNT      | b    | 2437            | Ant2    | 17.66                 | 0.03             | 17.69                       | 30                   | Pass    |
| NVNT      | b    | 2462            | Ant2    | 17.18                 | 0.03             | 17.21                       | 30                   | Pass    |
| NVNT      | g    | 2412            | Ant2    | 17.55                 | 0.19             | 17.74                       | 30                   | Pass    |
| NVNT      | g    | 2437            | Ant2    | 17.07                 | 0.19             | 17.26                       | 30                   | Pass    |
| NVNT      | g    | 2462            | Ant2    | 16.83                 | 0.19             | 17.02                       | 30                   | Pass    |
| NVNT      | n20  | 2412            | Ant2    | 15.94                 | 0.23             | 16.17                       | 30                   | Pass    |
| NVNT      | n20  | 2437            | Ant2    | 15.47                 | 0.23             | 15.7                        | 30                   | Pass    |
| NVNT      | n20  | 2462            | Ant2    | 15.26                 | 0.23             | 15.49                       | 30                   | Pass    |
| NVNT      | n40  | 2422            | Ant2    | 15.21                 | 0.44             | 15.65                       | 30                   | Pass    |
| NVNT      | n40  | 2437            | Ant2    | 14.18                 | 0.44             | 14.62                       | 30                   | Pass    |
| NVNT      | n40  | 2452            | Ant2    | 14.93                 | 0.44             | 15.37                       | 30                   | Pass    |

Note :offset=System attenuation +cabel loss

#### MIMO

| Condition | Mode | Frequency (MHz) | Conducted Power (dBm) |       |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|-----------------------|-------|-----------|-------------|---------|
|           |      |                 | Ant1                  | Ant2  | Ant1+Ant2 |             |         |
| NVNT      | n20  | 2412            | 16.22                 | 16.17 | 19.21     | 30          | Pass    |
| NVNT      | n20  | 2437            | 16.63                 | 15.7  | 19.20     | 30          | Pass    |
| NVNT      | n20  | 2462            | 16.36                 | 15.49 | 18.96     | 30          | Pass    |
| NVNT      | n40  | 2422            | 15.34                 | 15.65 | 18.51     | 30          | Pass    |
| NVNT      | n40  | 2437            | 15.0                  | 14.62 | 17.82     | 30          | Pass    |
| NVNT      | n40  | 2452            | 14.89                 | 15.37 | 18.15     | 30          | Pass    |



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### C.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/30kHz) | Duty Factor (dB) | Total PSD (dBm/30kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|---------------------------|------------------|-----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -7.46                     | 0.03             | -7.43                 | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -8.25                     | 0.03             | -8.22                 | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -8.28                     | 0.03             | -8.25                 | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -10.86                    | 0.19             | -10.67                | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -11.29                    | 0.19             | -11.1                 | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -12.13                    | 0.19             | -11.94                | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -11.63                    | 0.22             | -11.41                | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -13.06                    | 0.22             | -12.84                | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -13.03                    | 0.23             | -12.8                 | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -15.64                    | 0.42             | -15.22                | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -16.58                    | 0.44             | -16.14                | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -16.11                    | 0.44             | -15.67                | 8                | Pass    |

Note :offset=System attenuation +cabal loss

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/30kHz) | Duty Factor (dB) | Total PSD (dBm/30kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|---------------------------|------------------|-----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant2    | -7.34                     | 0.03             | -7.31                 | 8                | Pass    |
| NVNT      | b    | 2437            | Ant2    | -8.47                     | 0.03             | -8.44                 | 8                | Pass    |
| NVNT      | b    | 2462            | Ant2    | -7.87                     | 0.03             | -7.84                 | 8                | Pass    |
| NVNT      | g    | 2412            | Ant2    | -10.91                    | 0.19             | -10.72                | 8                | Pass    |
| NVNT      | g    | 2437            | Ant2    | -11.5                     | 0.19             | -11.31                | 8                | Pass    |
| NVNT      | g    | 2462            | Ant2    | -11.88                    | 0.19             | -11.69                | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant2    | -11.4                     | 0.23             | -11.17                | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant2    | -12.85                    | 0.23             | -12.62                | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant2    | -13.25                    | 0.23             | -13.02                | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant2    | -15.46                    | 0.44             | -15.02                | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant2    | -16.38                    | 0.44             | -15.94                | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant2    | -16                       | 0.44             | -15.56                | 8                | Pass    |

Note :offset=System attenuation +cabal loss

#### MIMO

| Condition | Mode | Frequency (MHz) | Conducted PSD (dBm/3kHz) |        |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|--------------------------|--------|-----------|-------------|---------|
|           |      |                 | Ant1                     | Ant2   | Ant1+Ant2 |             |         |
| NVNT      | n20  | 2412            | -11.41                   | -11.17 | -8.28     | 8           | Pass    |
| NVNT      | n20  | 2437            | -12.84                   | -12.62 | -9.72     | 8           | Pass    |
| NVNT      | n20  | 2462            | -12.8                    | -13.02 | -9.90     | 8           | Pass    |
| NVNT      | n40  | 2422            | -15.22                   | -15.02 | -12.11    | 8           | Pass    |
| NVNT      | n40  | 2437            | -16.14                   | -15.94 | -13.03    | 8           | Pass    |
| NVNT      | n40  | 2452            | -15.67                   | -15.56 | -12.60    | 8           | Pass    |

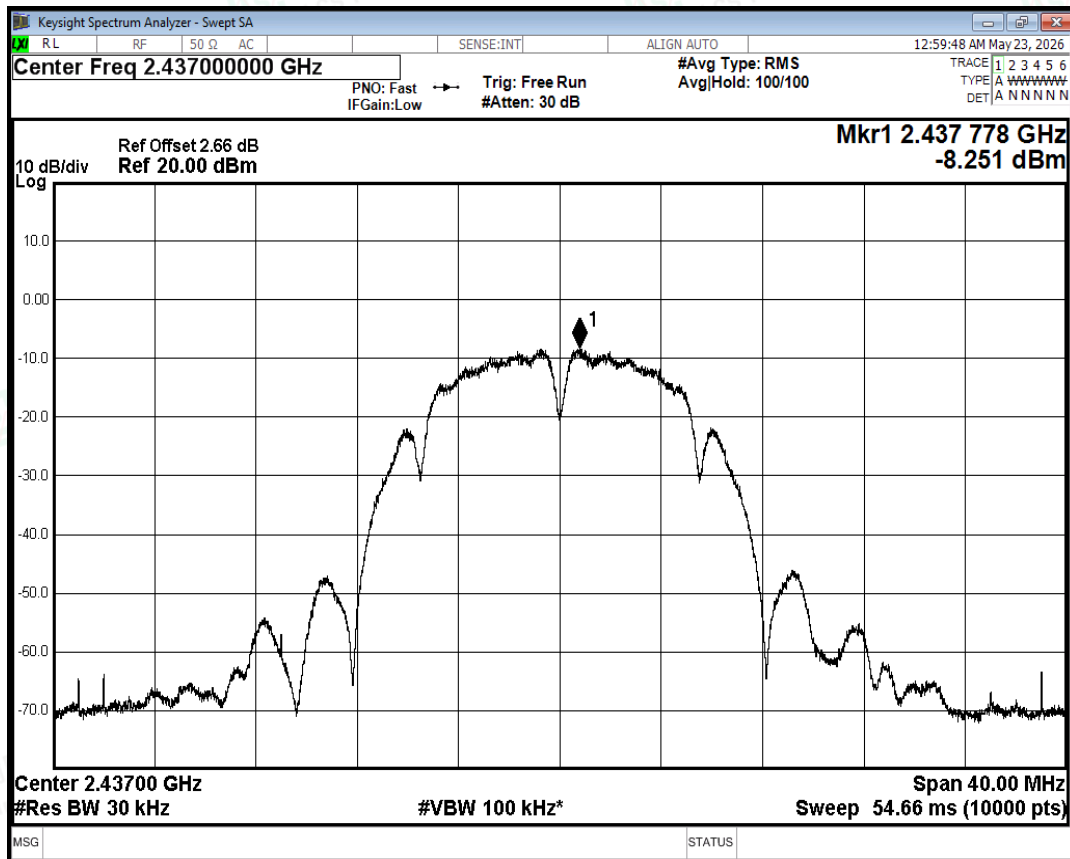
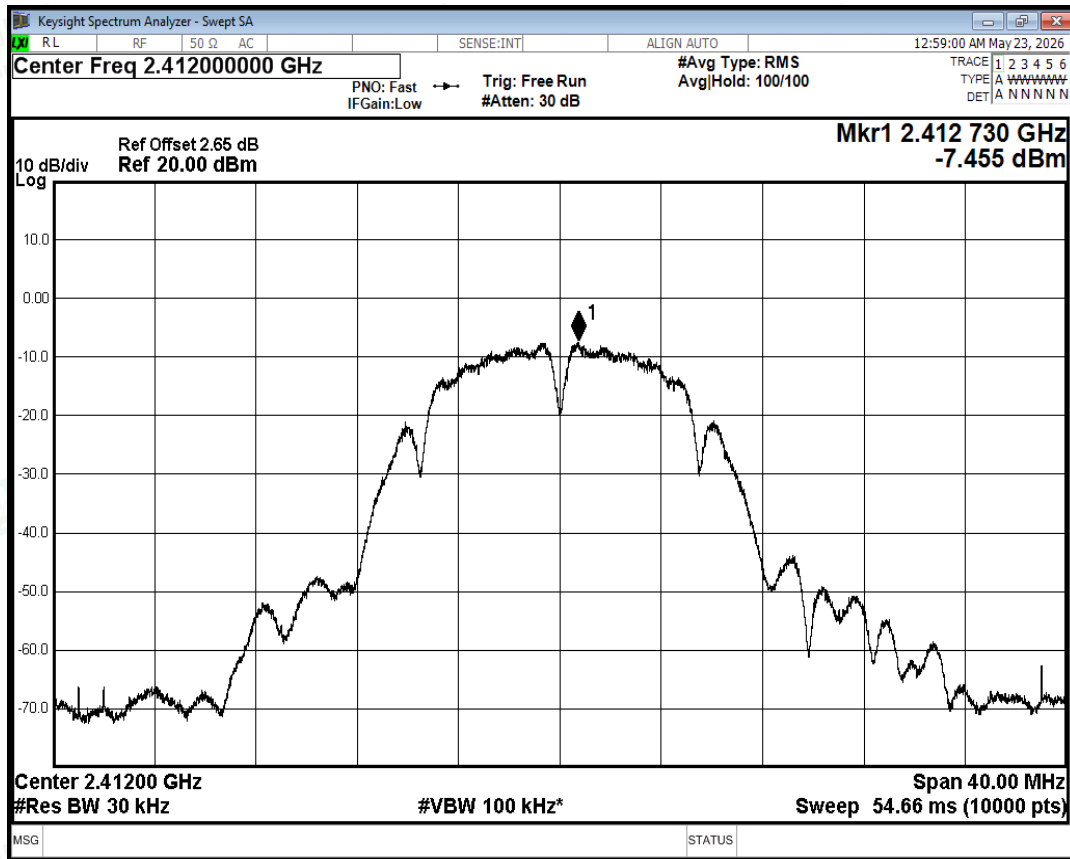


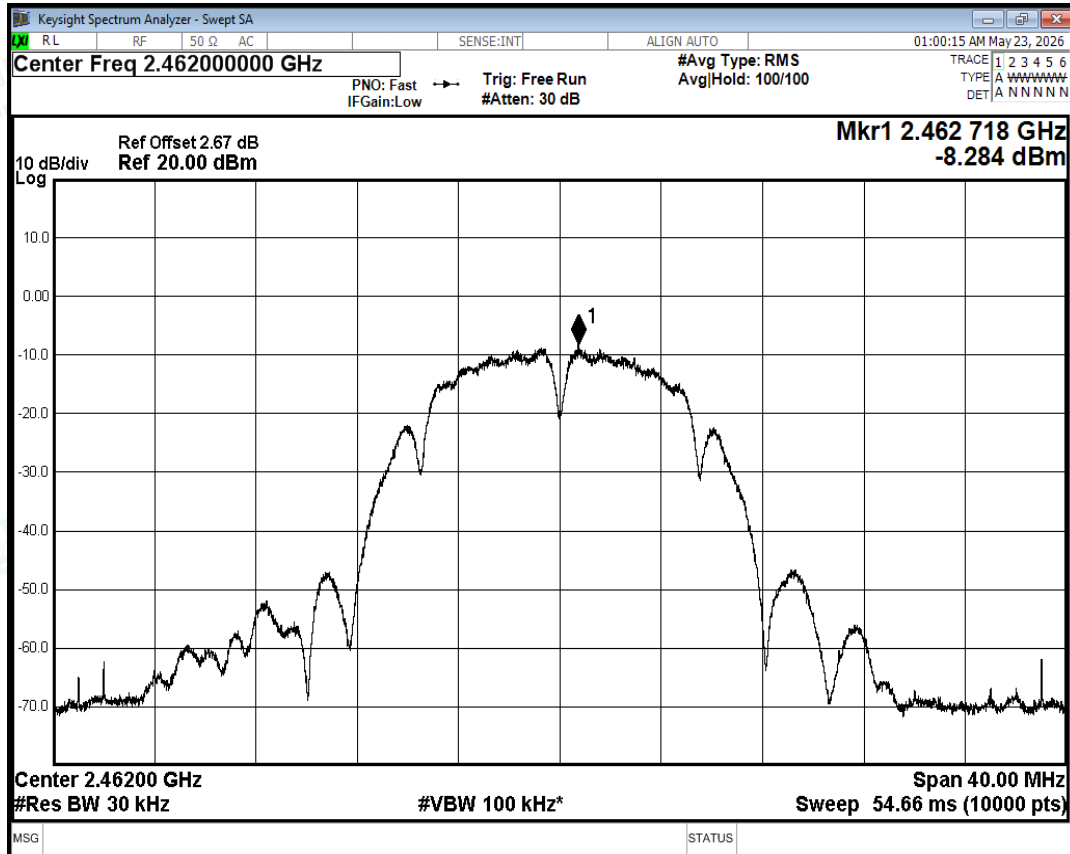
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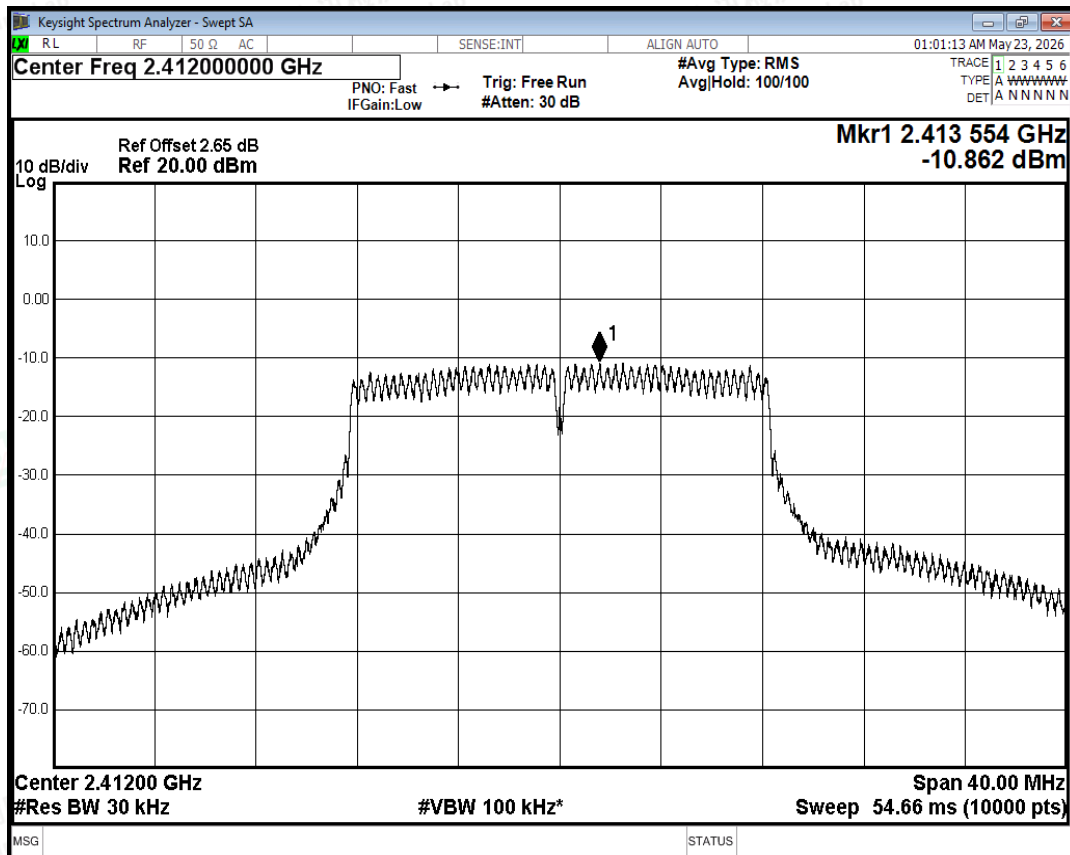
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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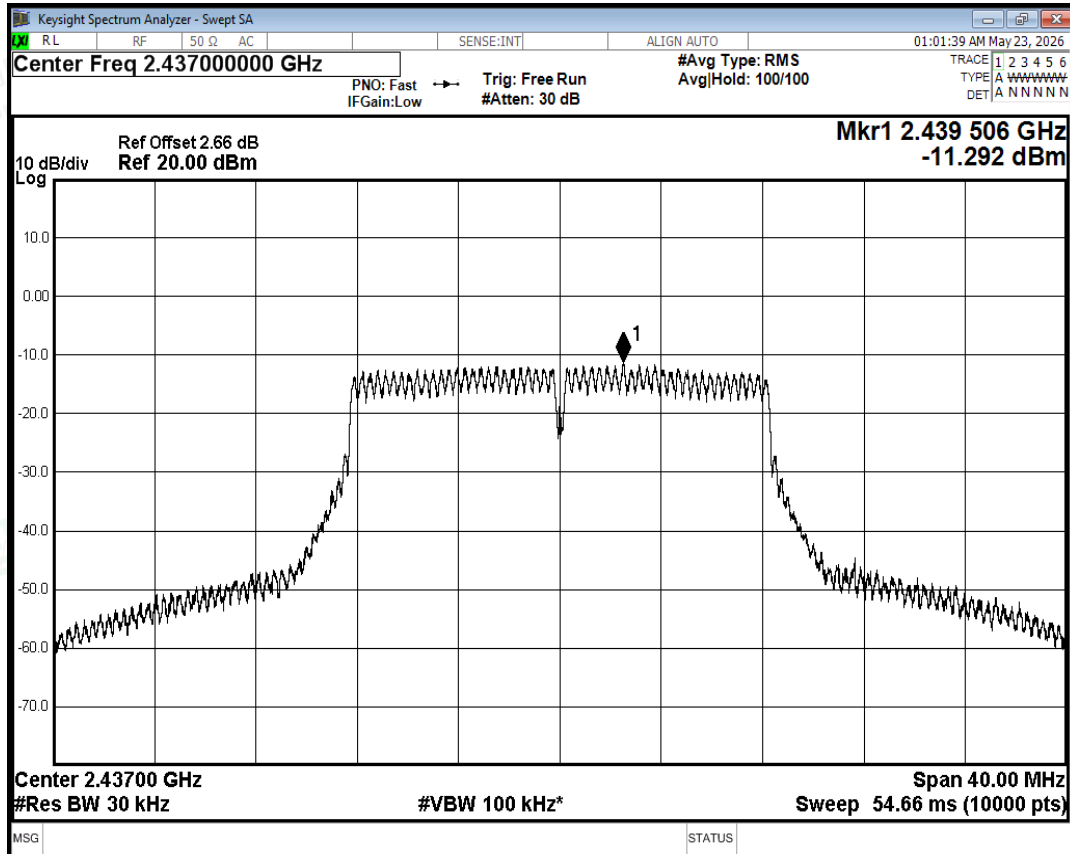


PSD NVNT b 2462MHz Ant1

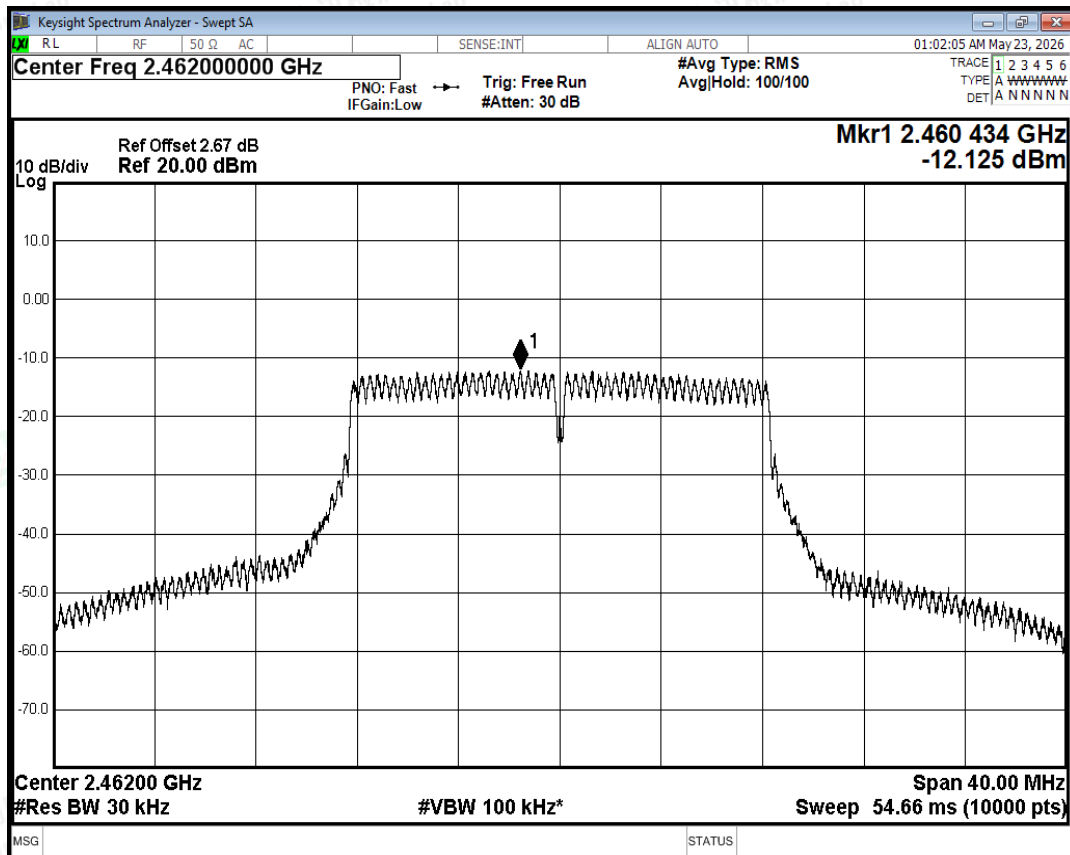


PSD NVNT g 2412MHz Ant1



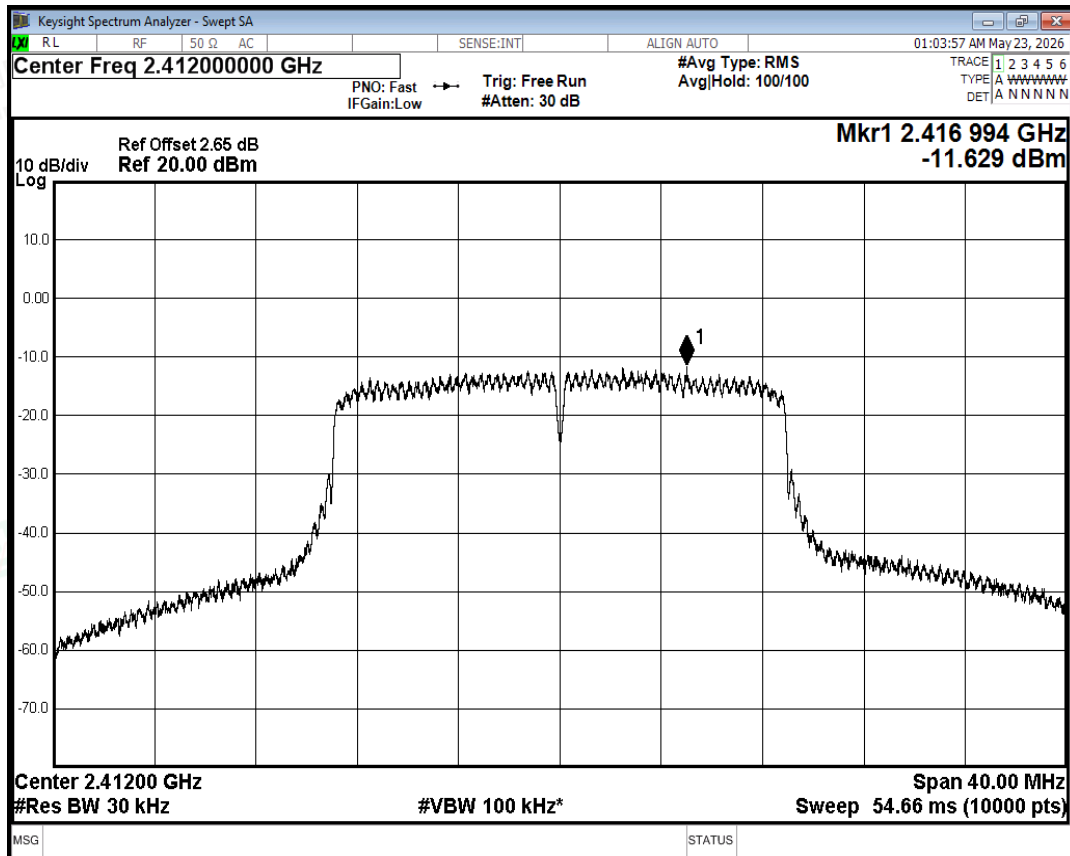


PSD NVNT g 2437MHz Ant1

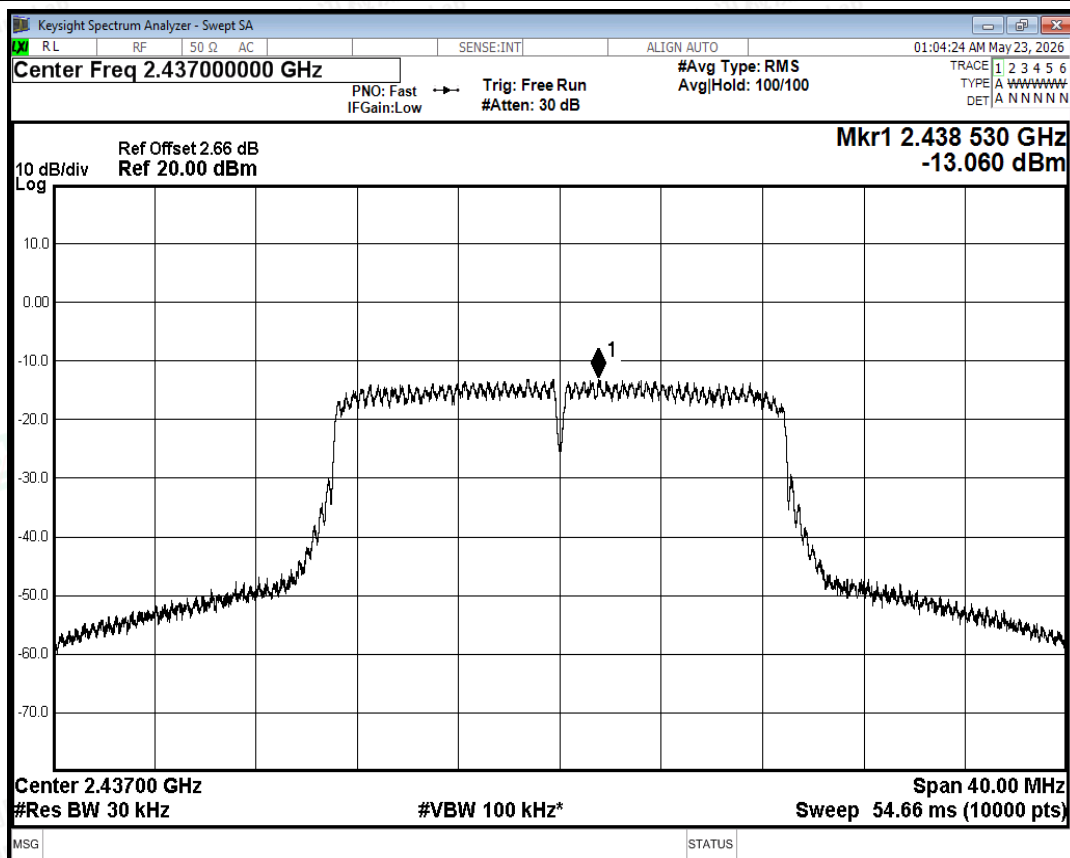


PSD NVNT g 2462MHz Ant1



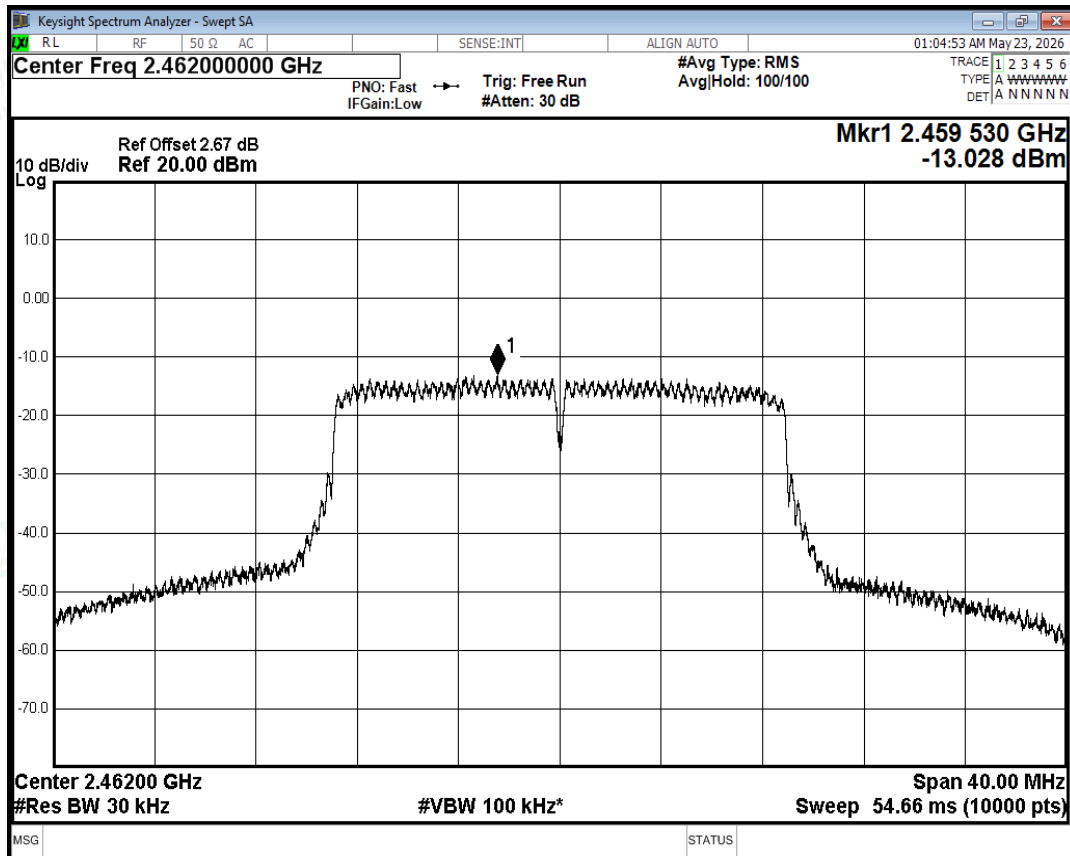


PSD NVNT n20 2412MHz Ant1

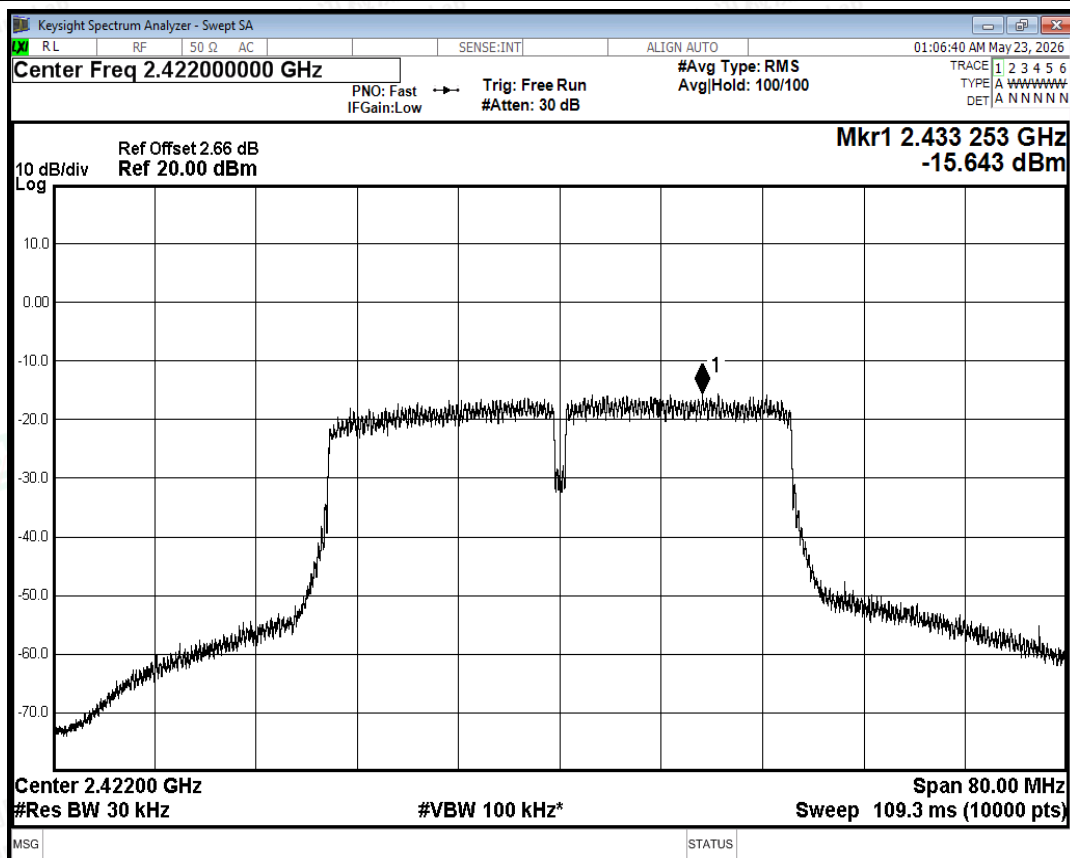


PSD NVNT n20 2437MHz Ant1



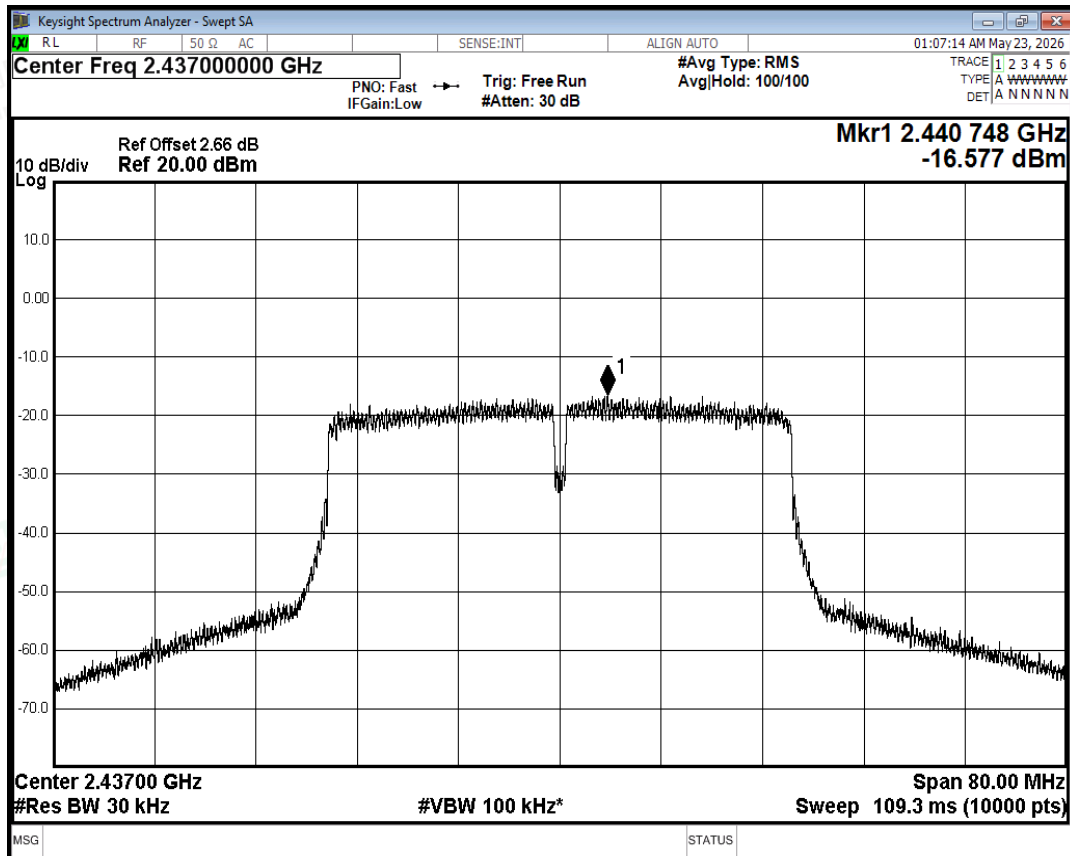


PSD NVNT n20 2462MHz Ant1

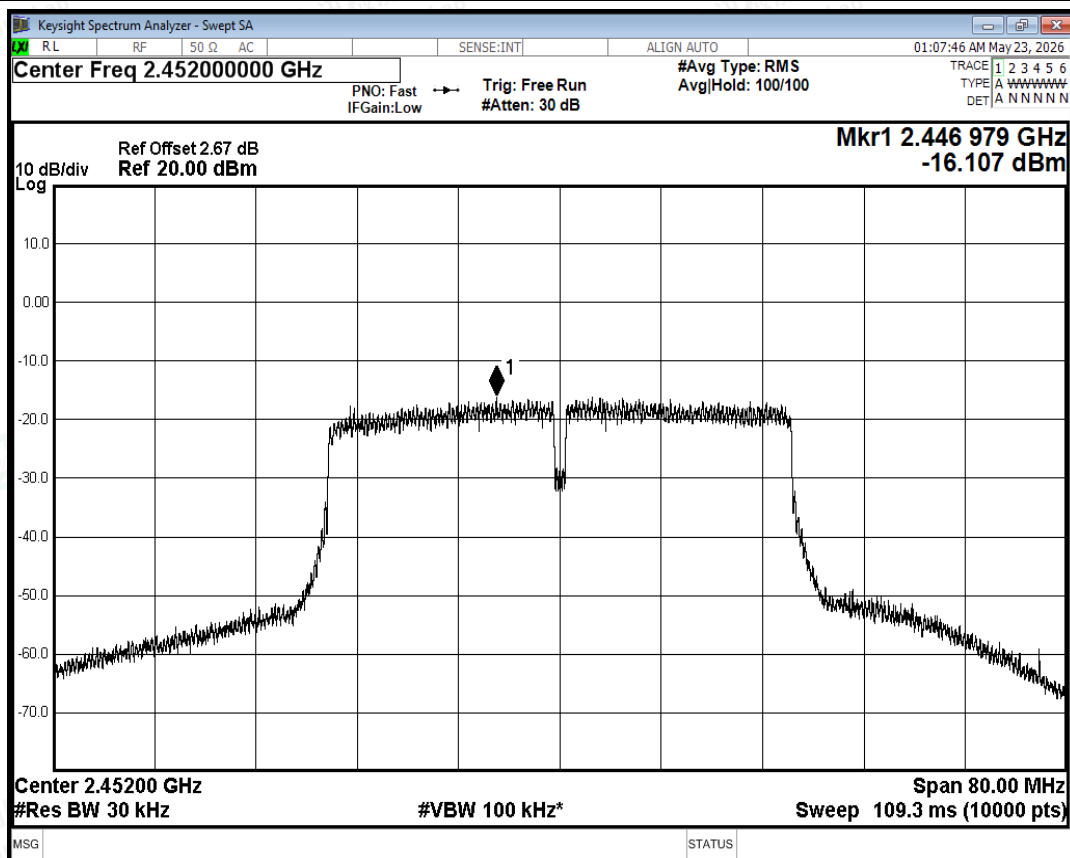


PSD NVNT n40 2422MHz Ant1





PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

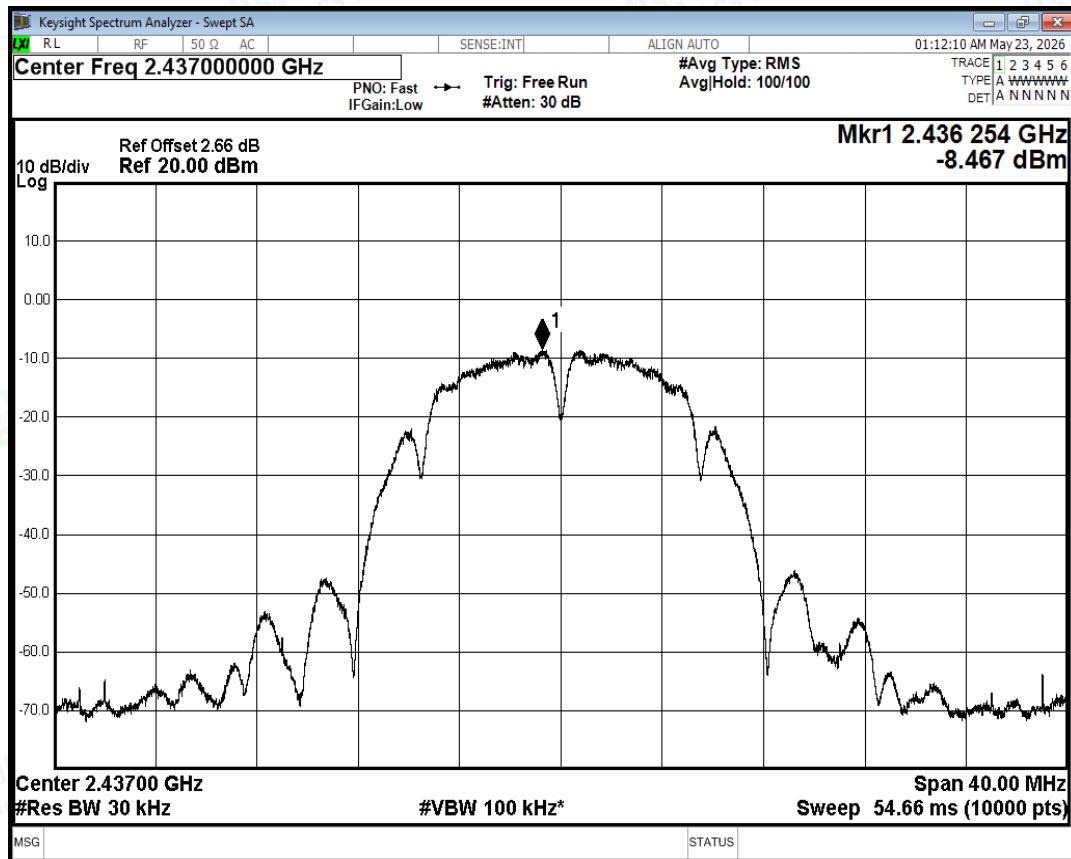
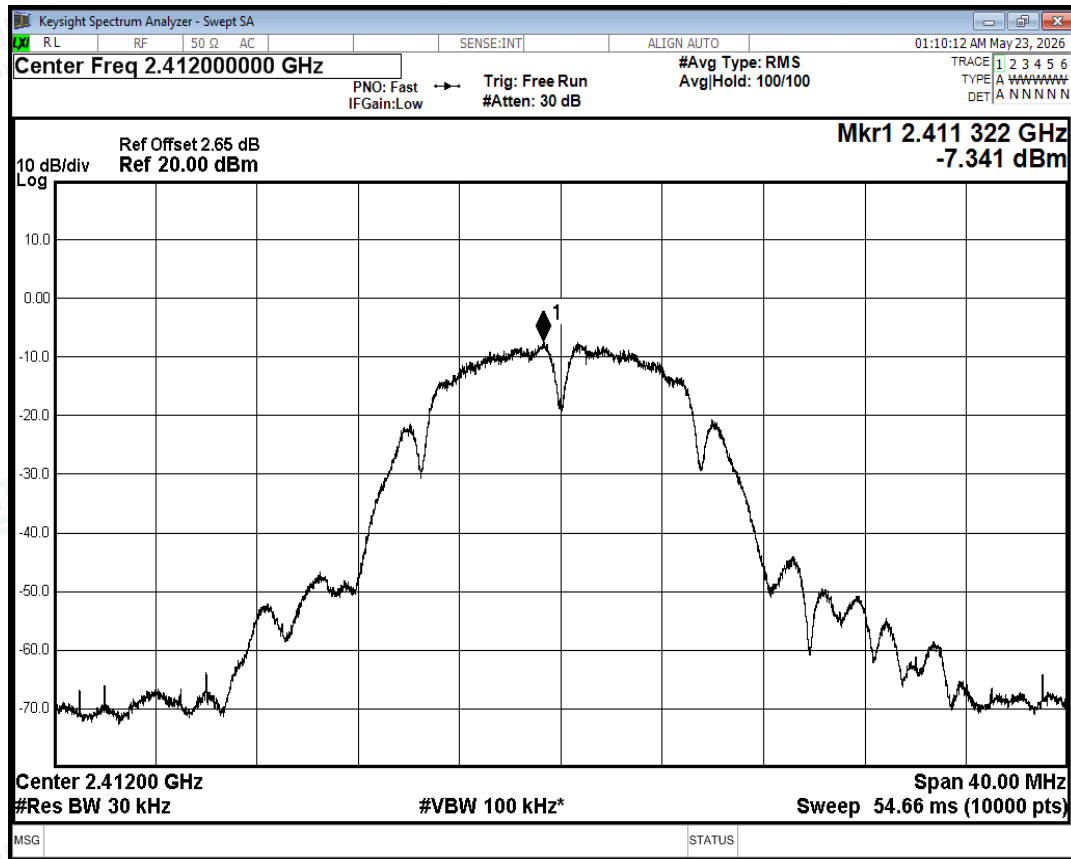


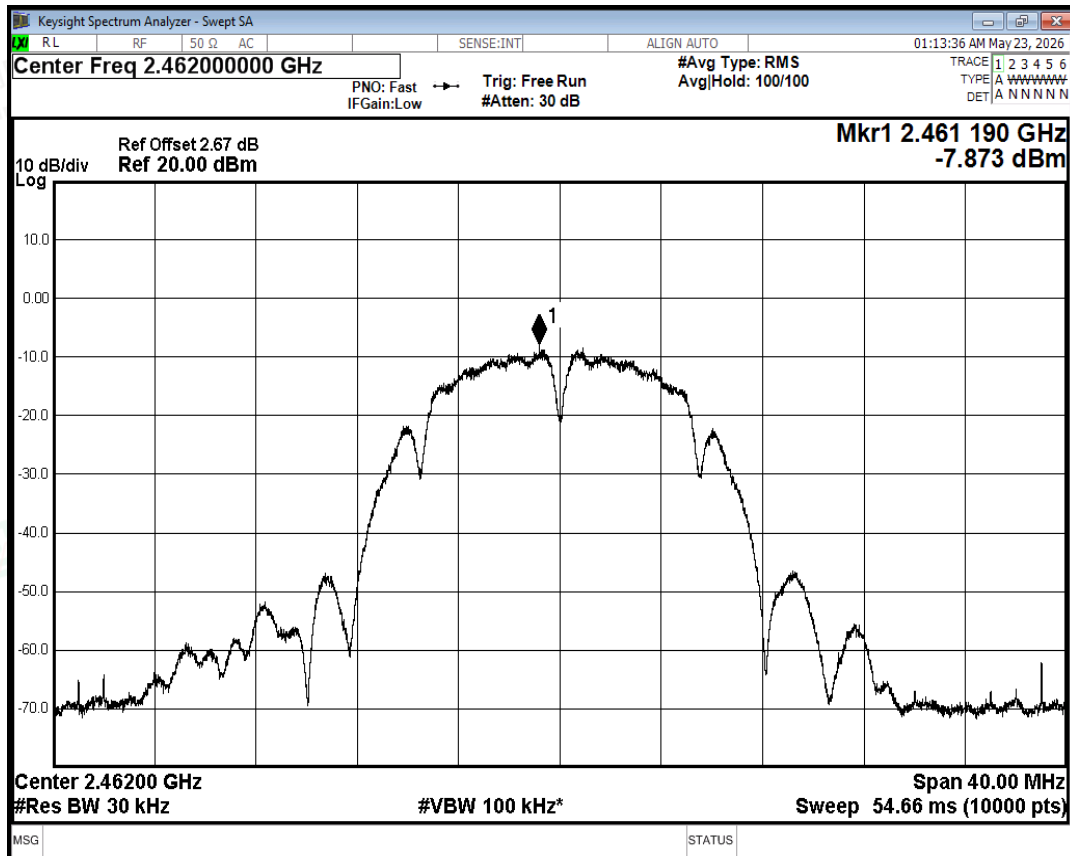
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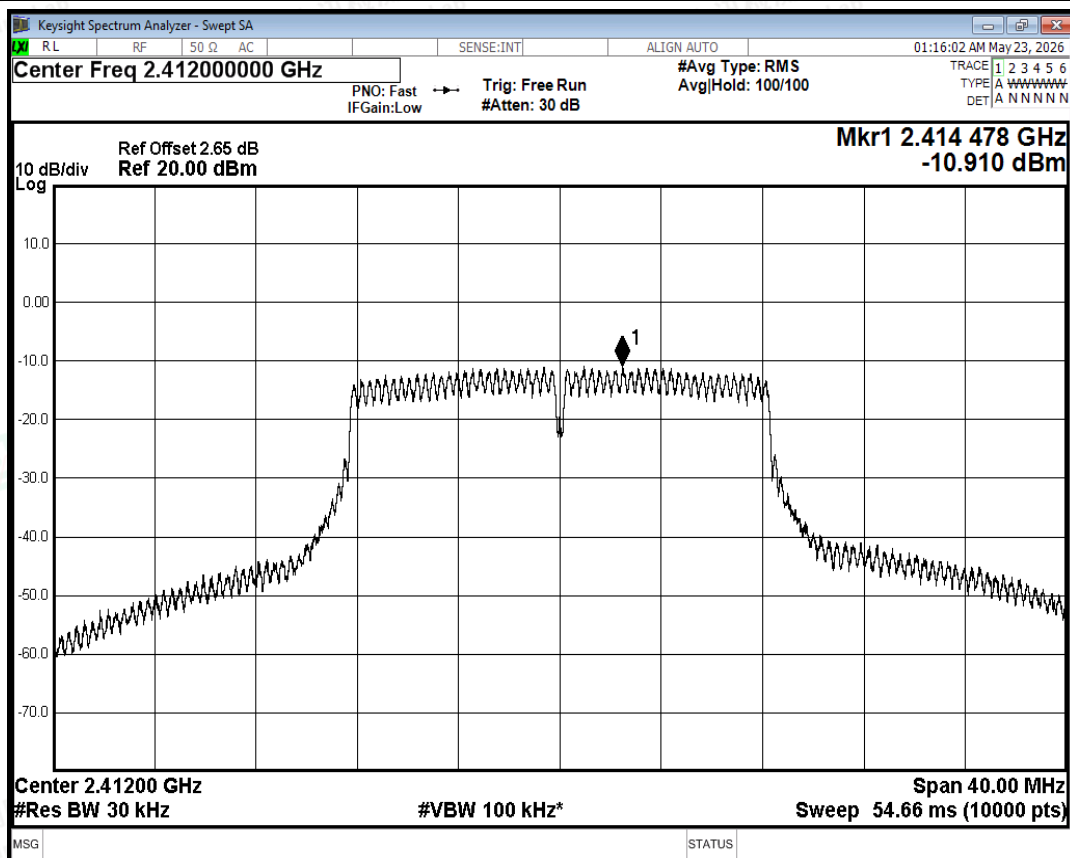
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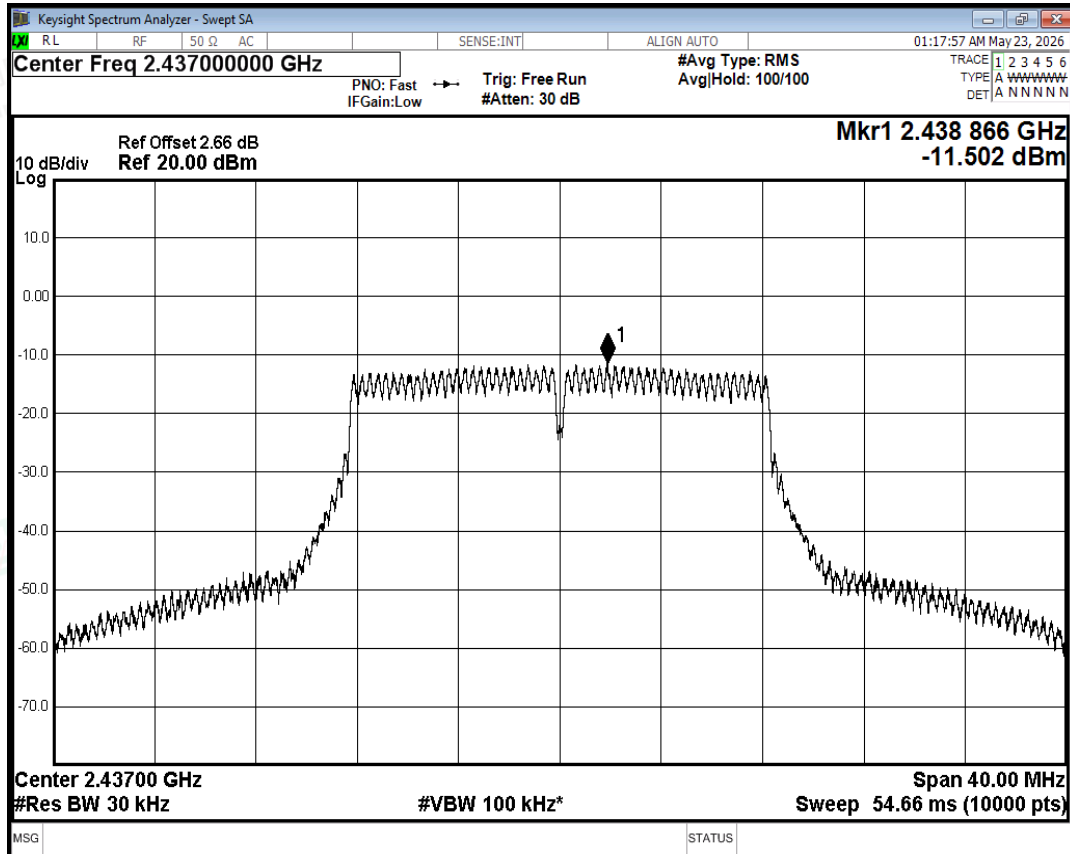


PSD NVNT b 2462MHz Ant2

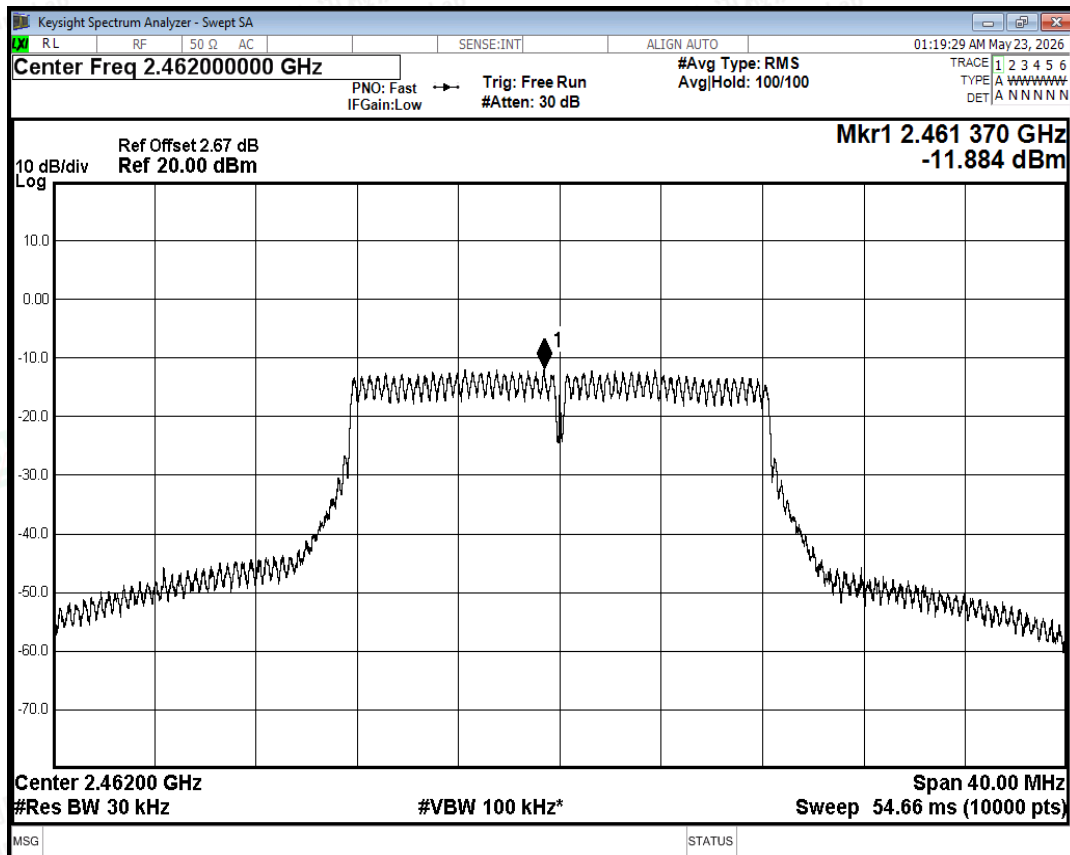


PSD NVNT g 2412MHz Ant2



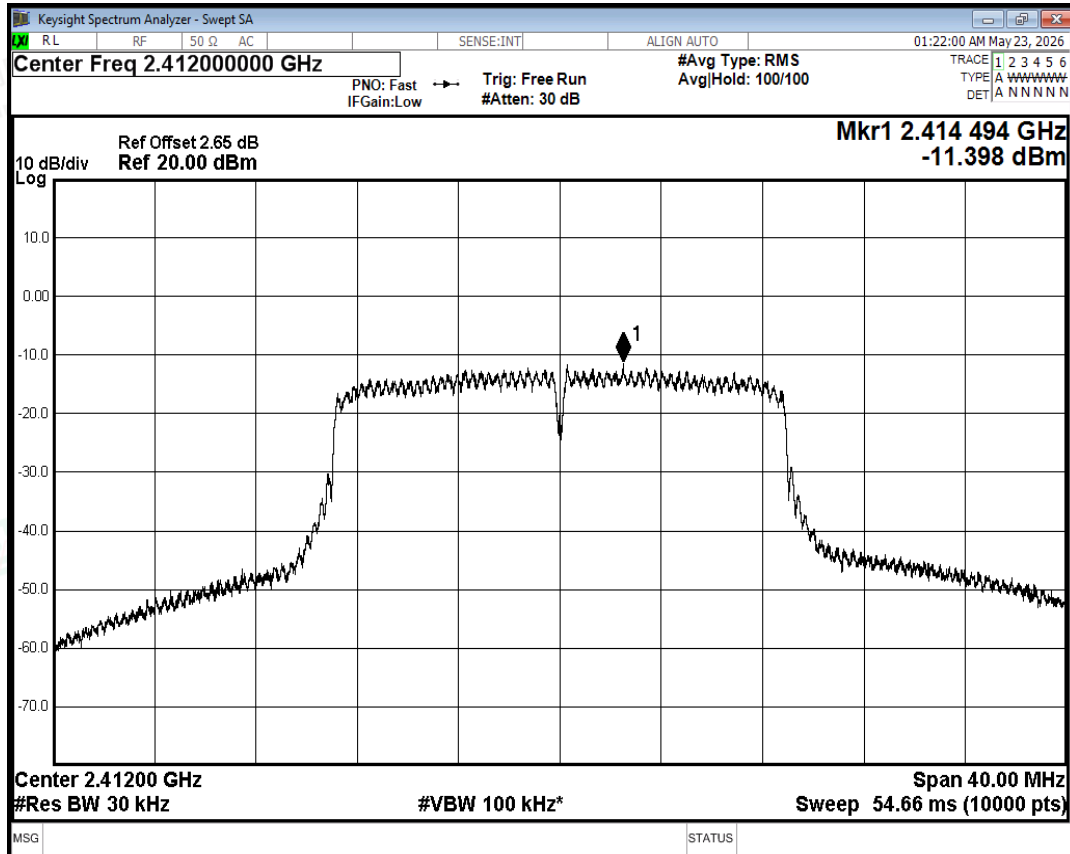


PSD NVNT g 2437MHz Ant2

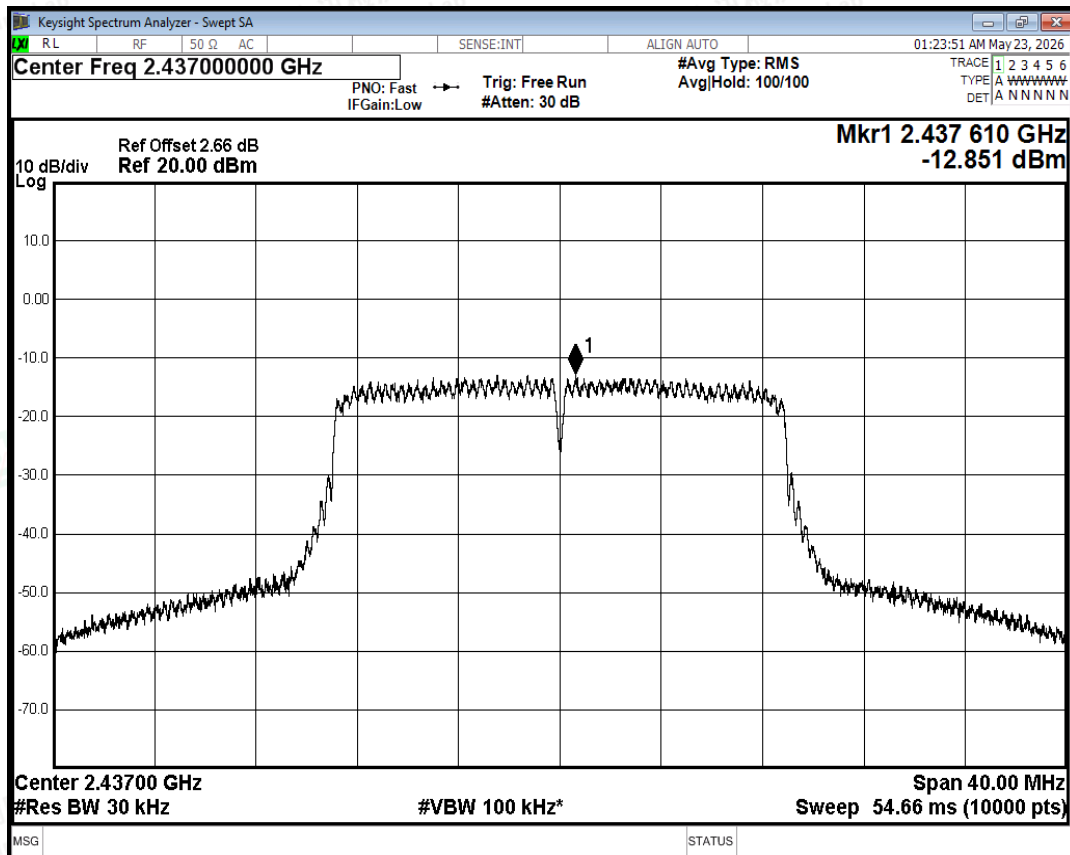


PSD NVNT g 2462MHz Ant2





PSD NVNT n20 2412MHz Ant2



PSD NVNT n20 2437MHz Ant2

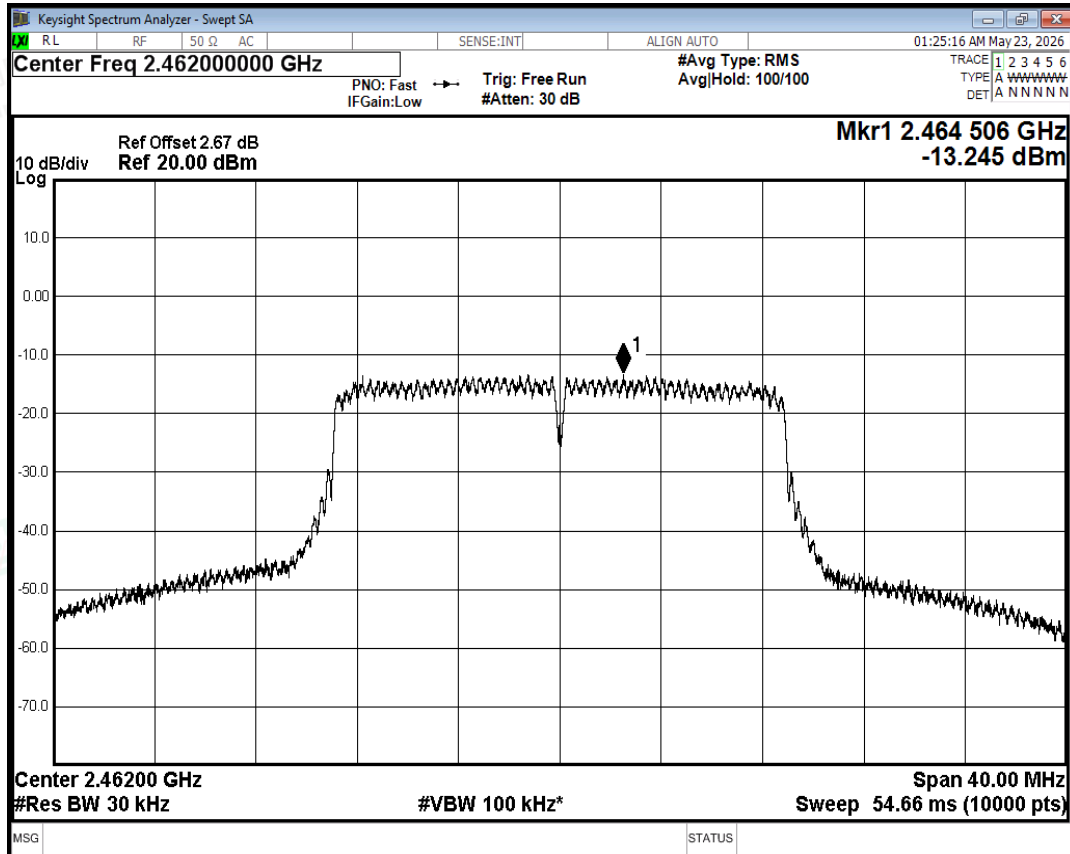


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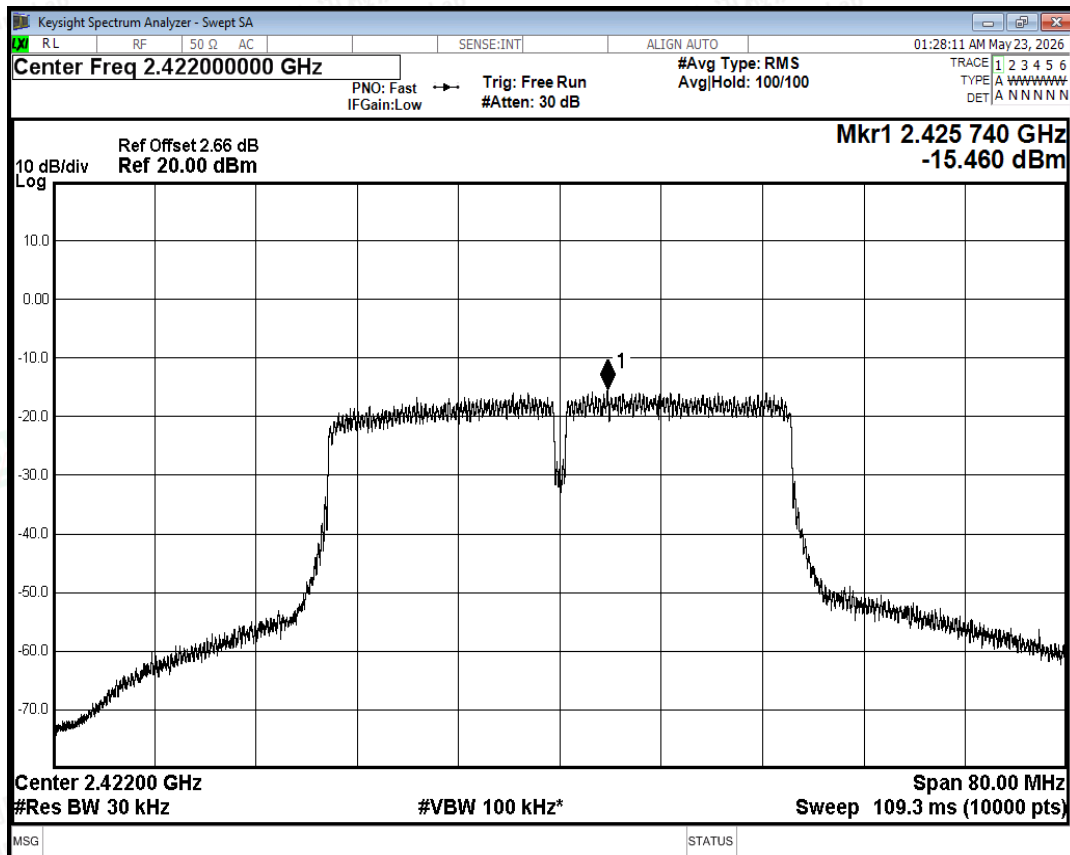
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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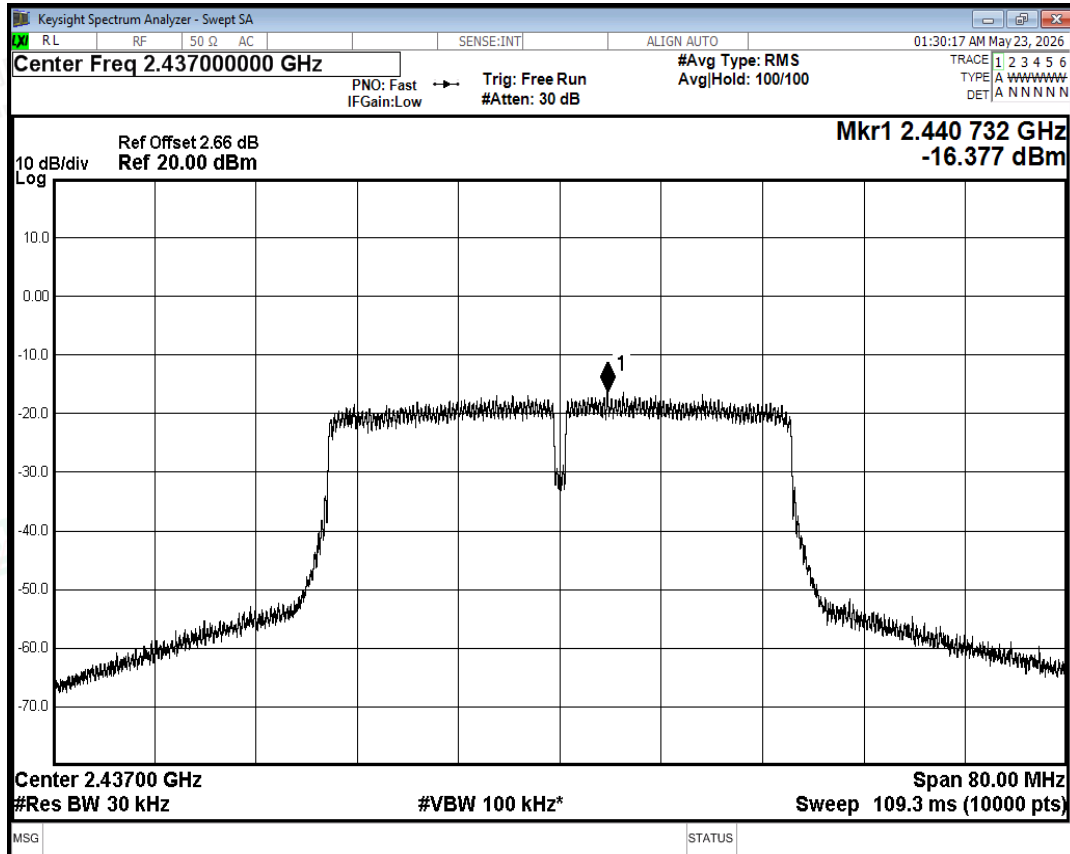


PSD NVNT n20 2462MHz Ant2

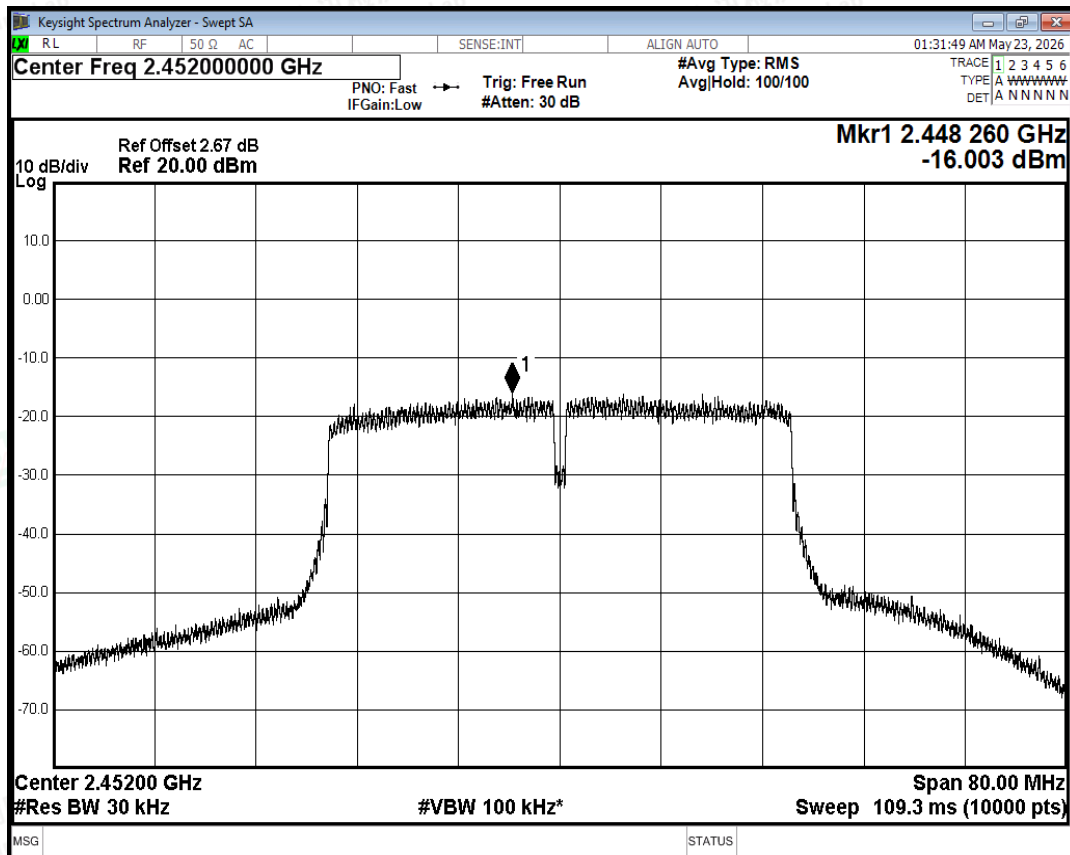


PSD NVNT n40 2422MHz Ant2





PSD NVNT n40 2437MHz Ant2



PSD NVNT n40 2452MHz Ant2



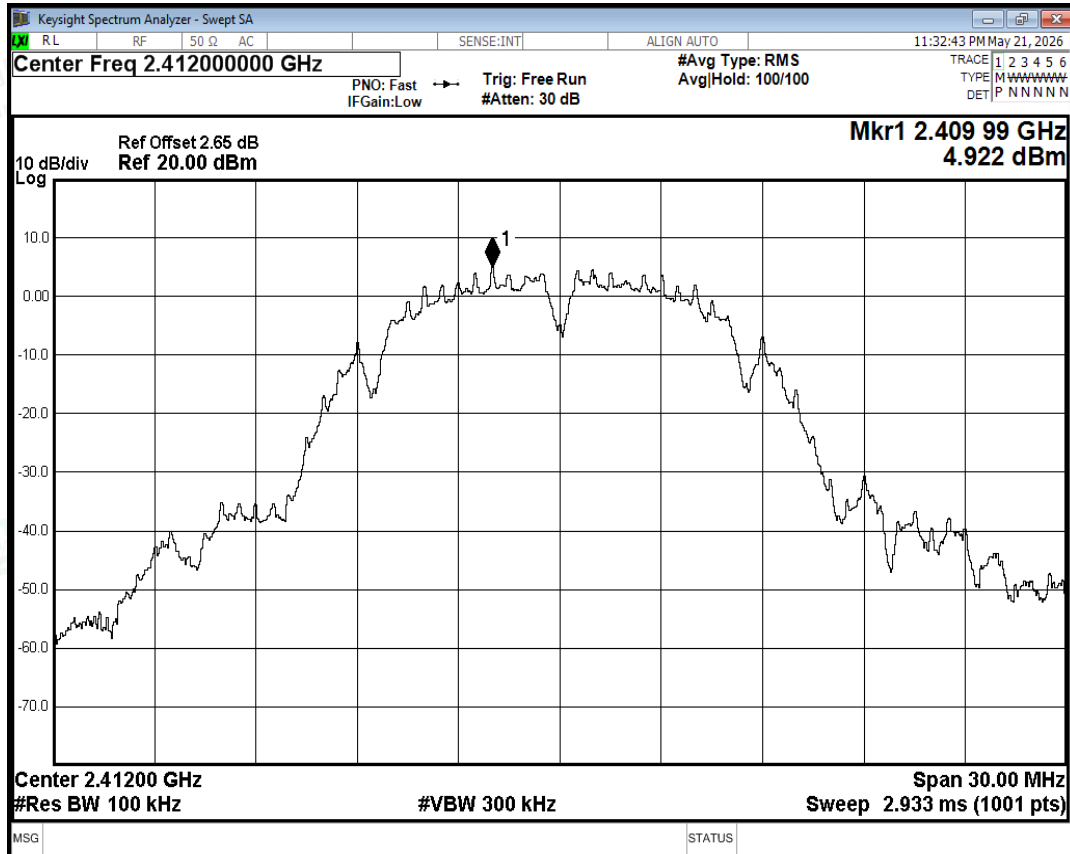


## C.4 Band Edge

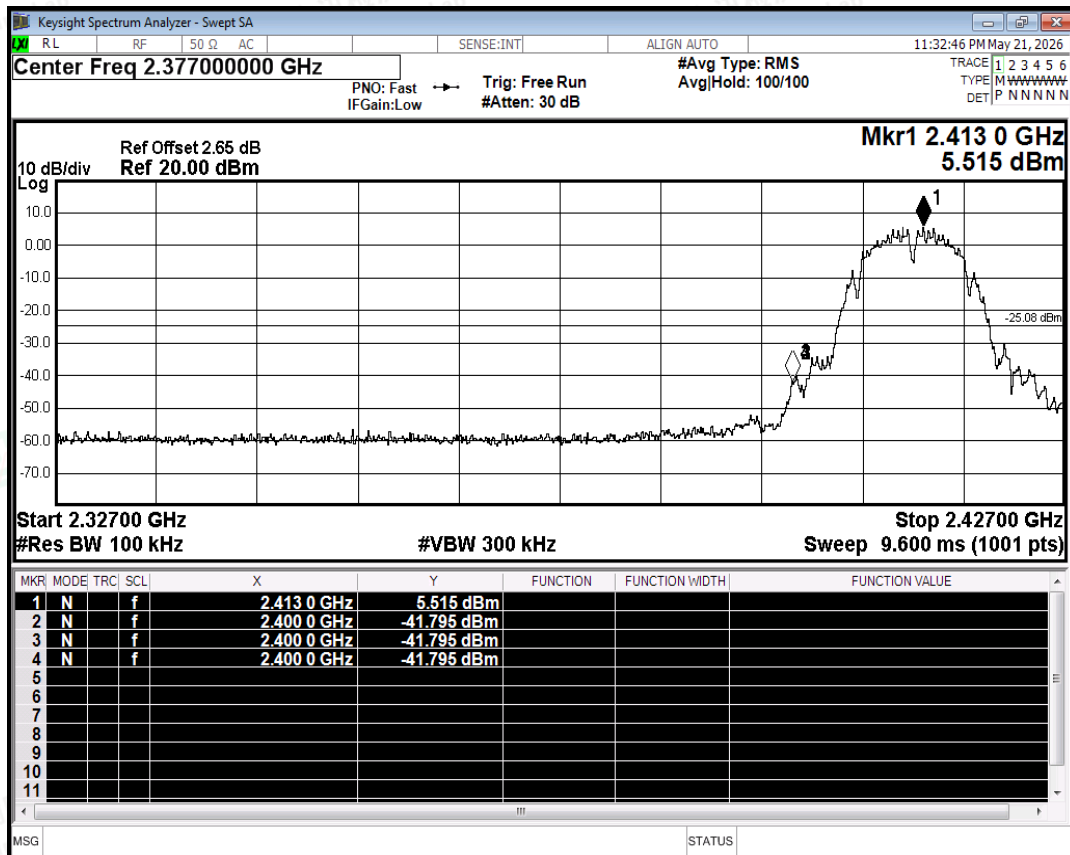
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -46.71          | -30         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -58.6           | -30         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -31.94          | -30         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -44.08          | -30         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -32.89          | -30         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -43.28          | -30         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -31.39          | -30         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -35.88          | -30         | Pass    |

Note :offset=System attenuation +cabal loss





Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

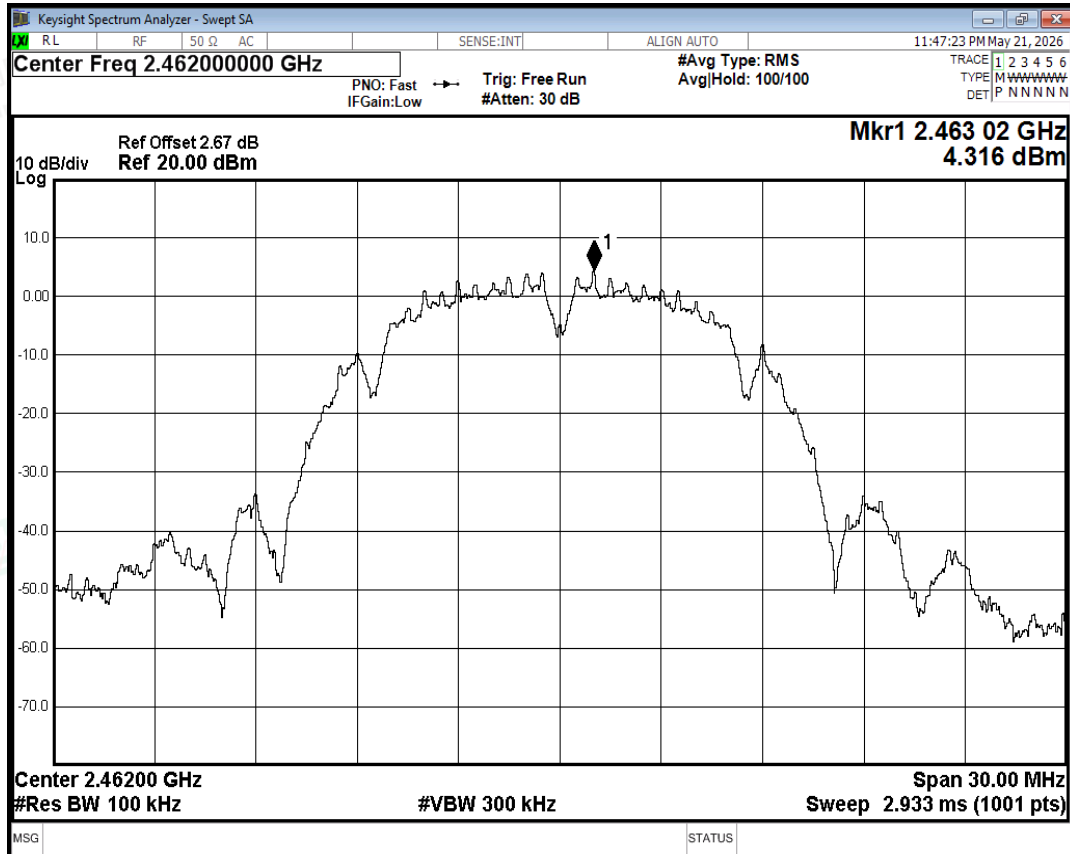


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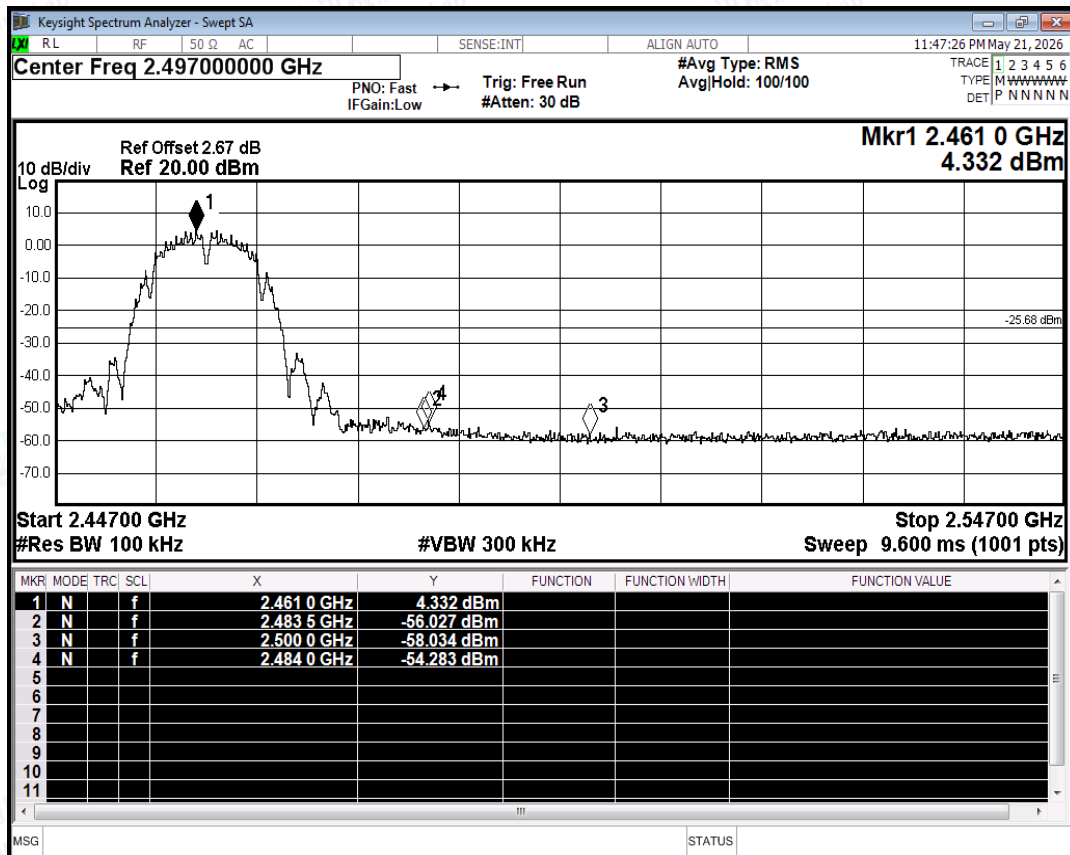
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission

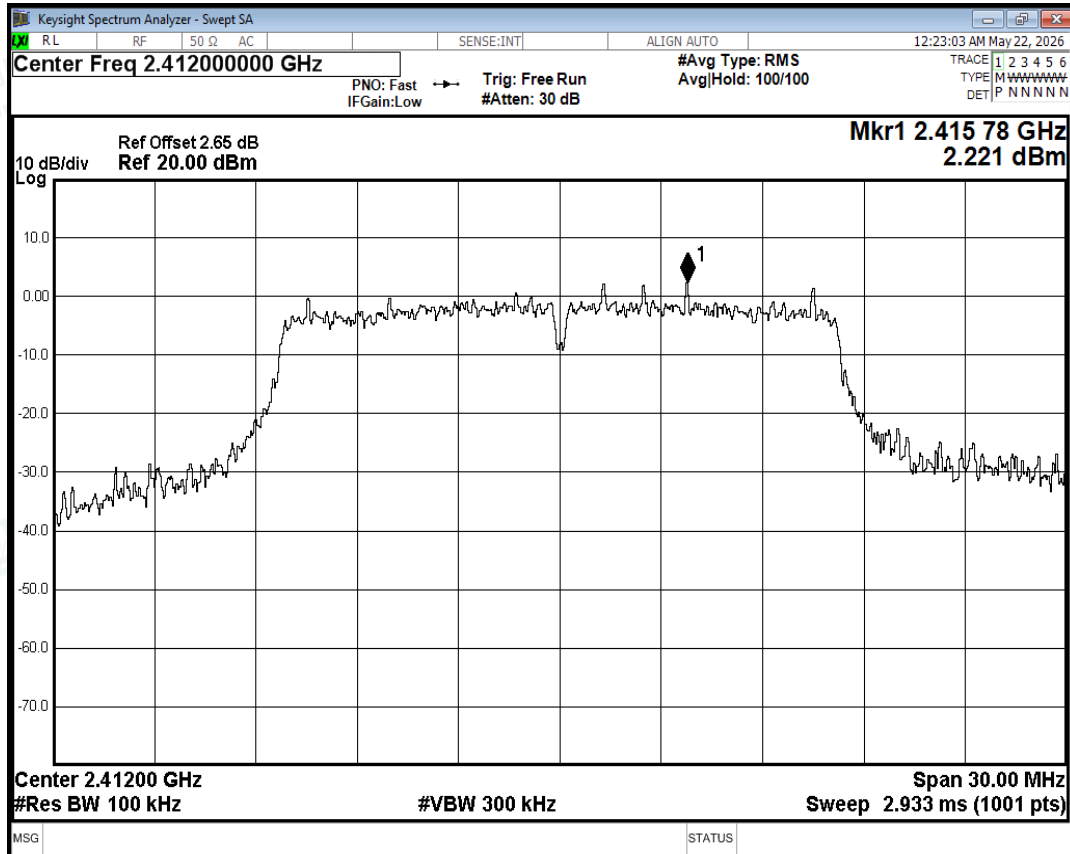


Shenzhen LCS Compliance Testing Laboratory Ltd.

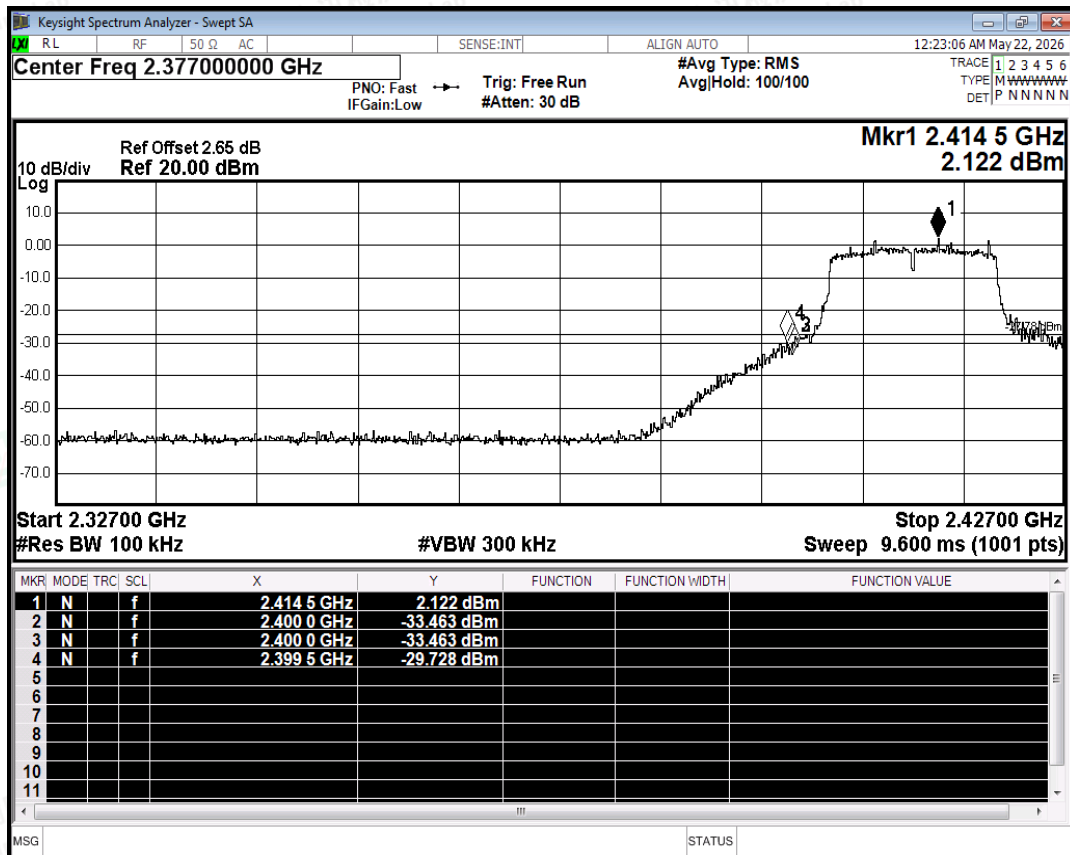
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission

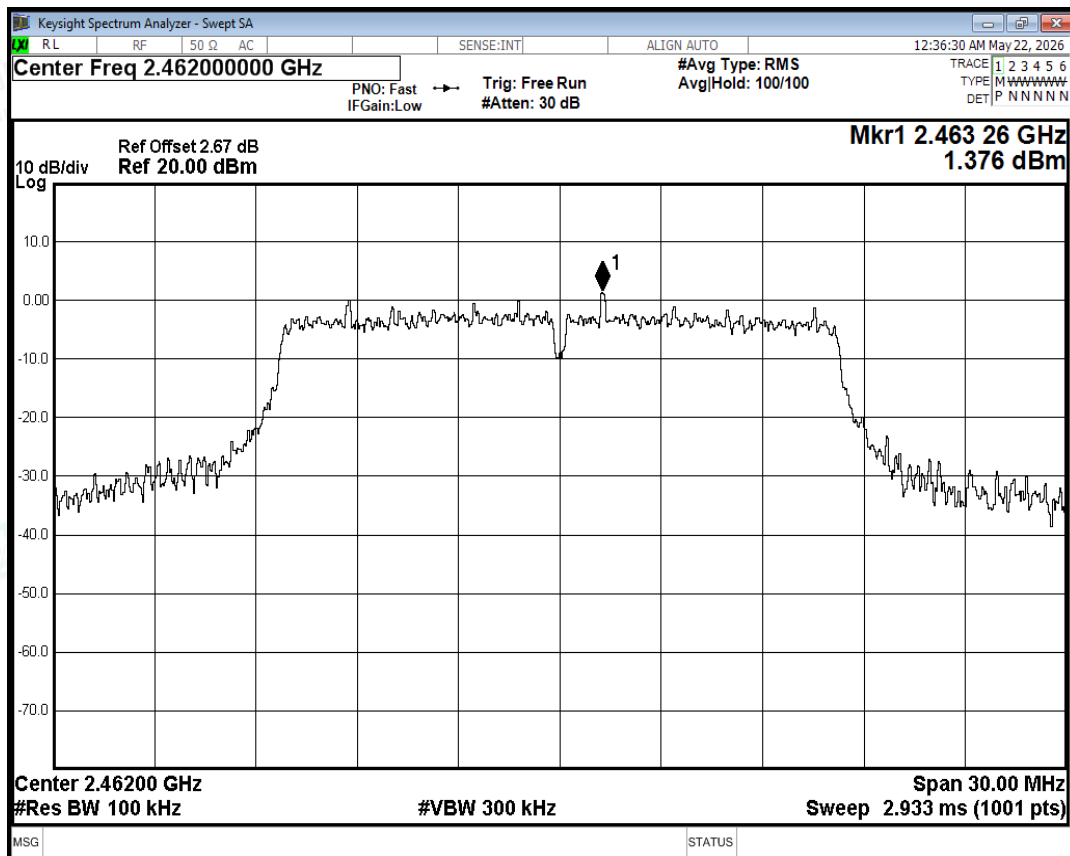


Shenzhen LCS Compliance Testing Laboratory Ltd.

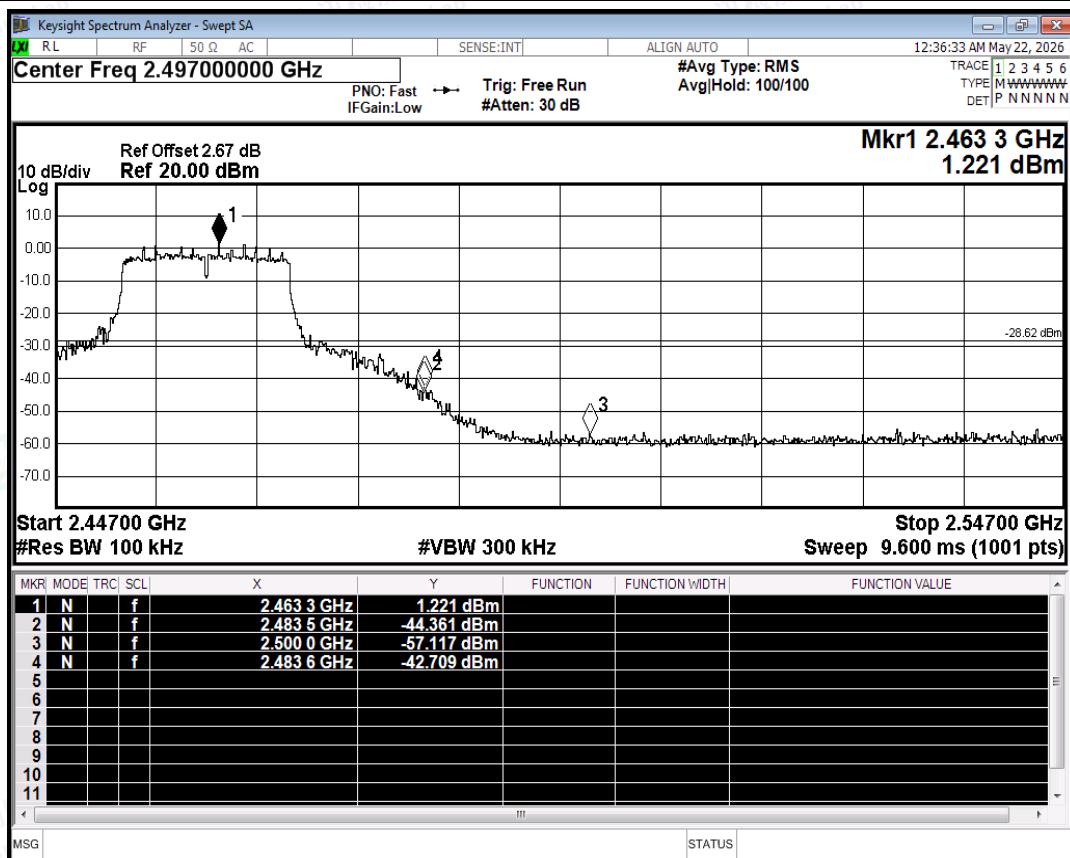
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission

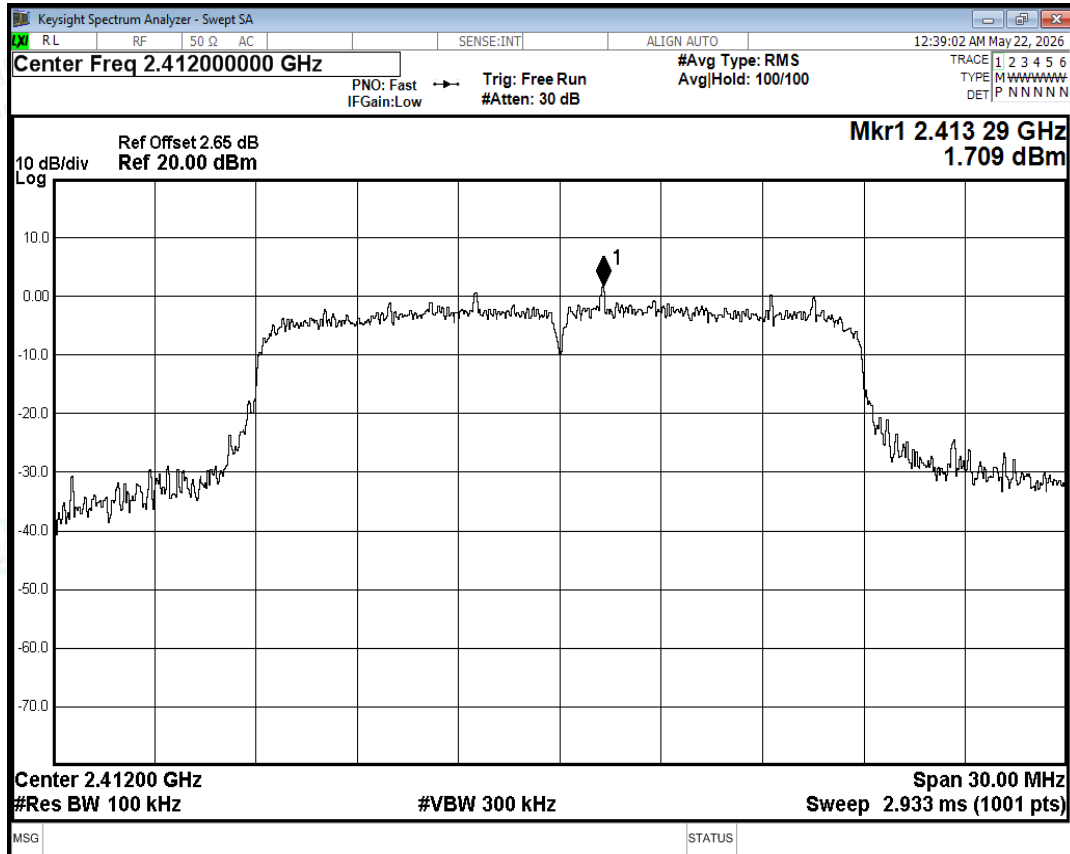


Shenzhen LCS Compliance Testing Laboratory Ltd.

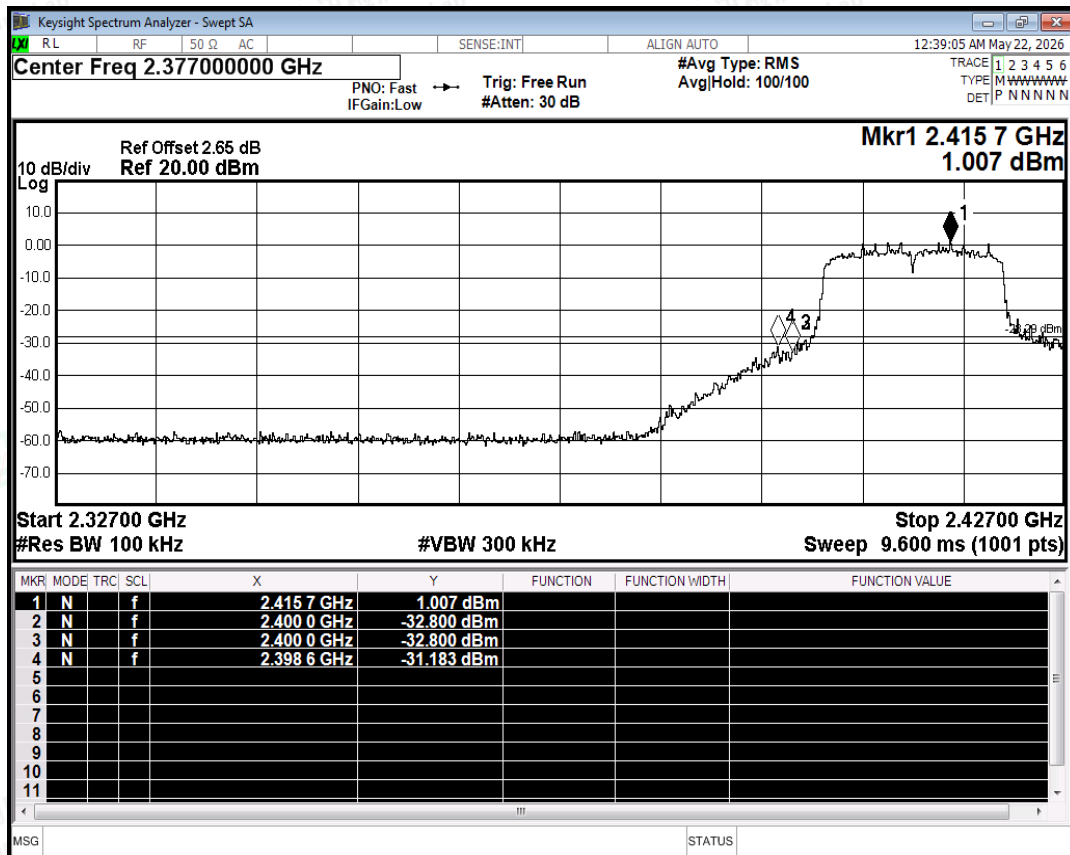
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission

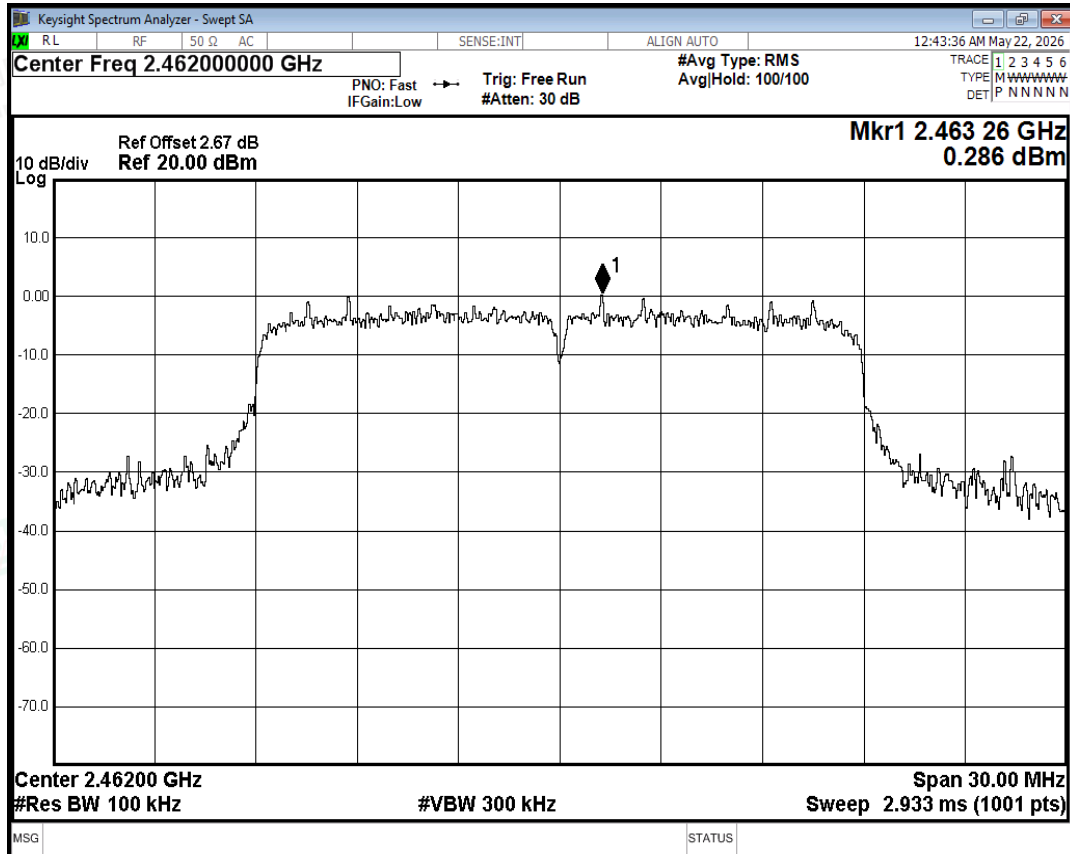


Shenzhen LCS Compliance Testing Laboratory Ltd.

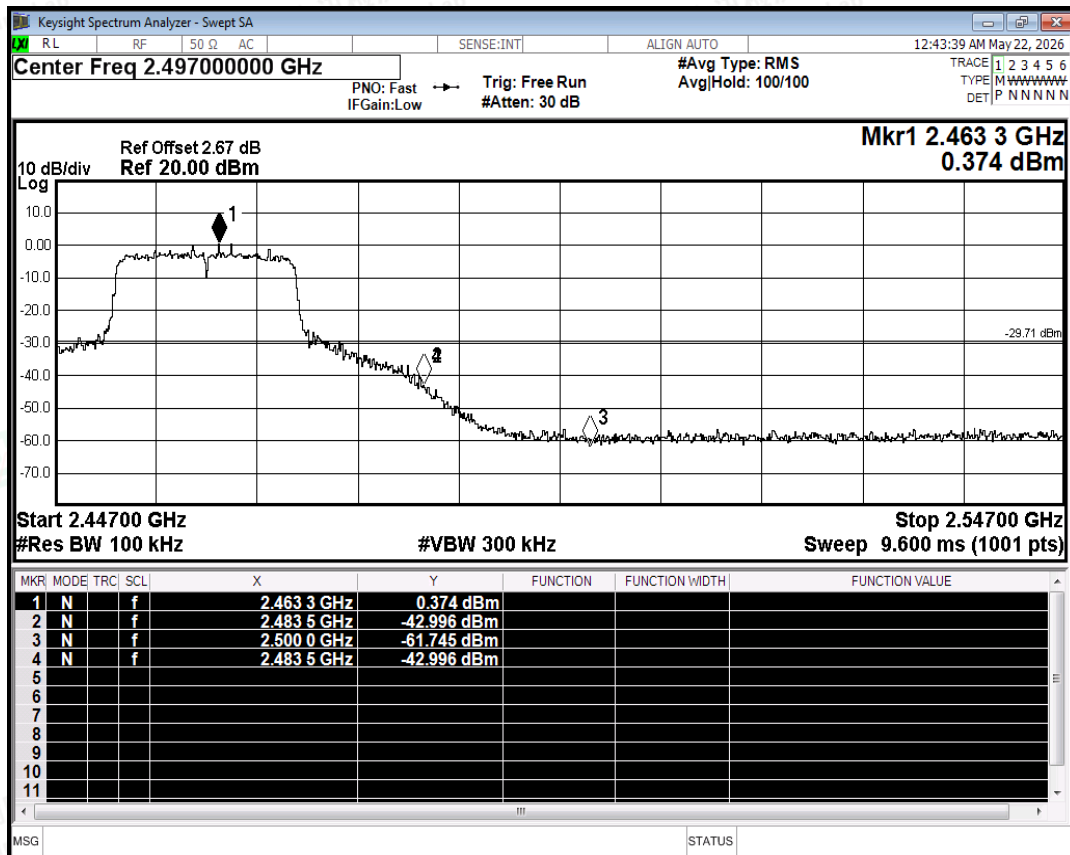
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission

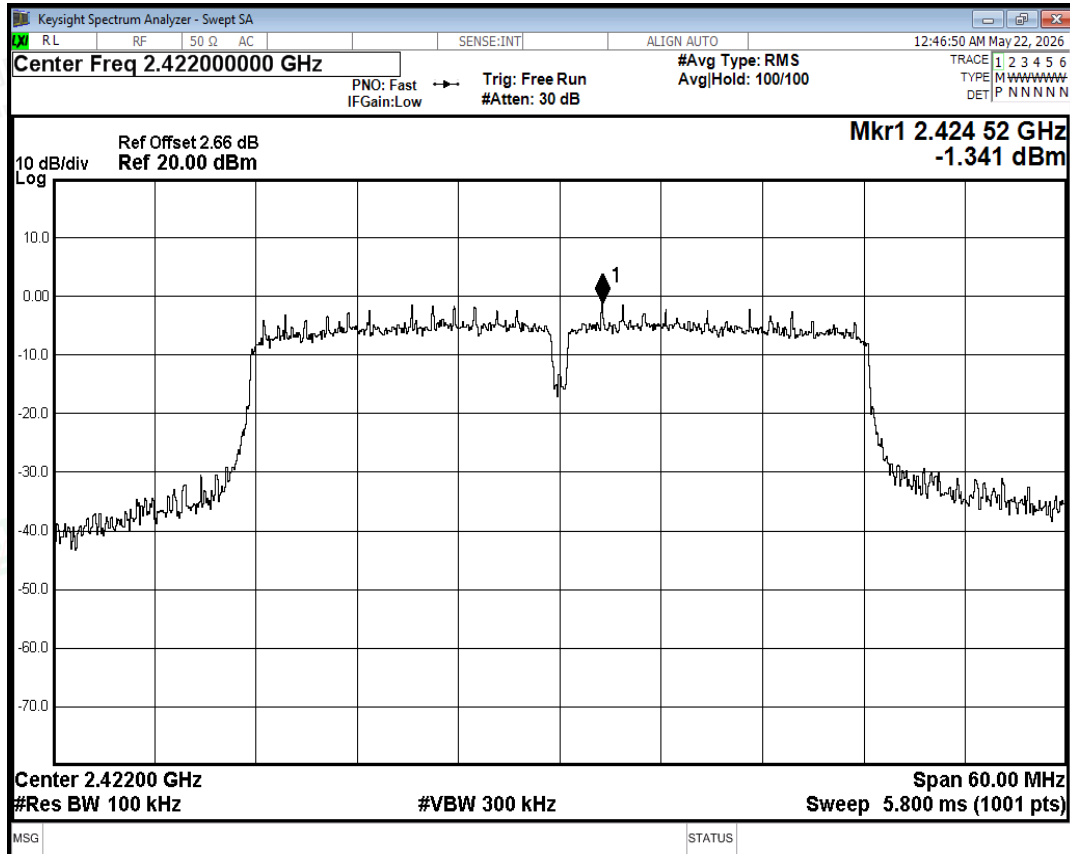


Shenzhen LCS Compliance Testing Laboratory Ltd.

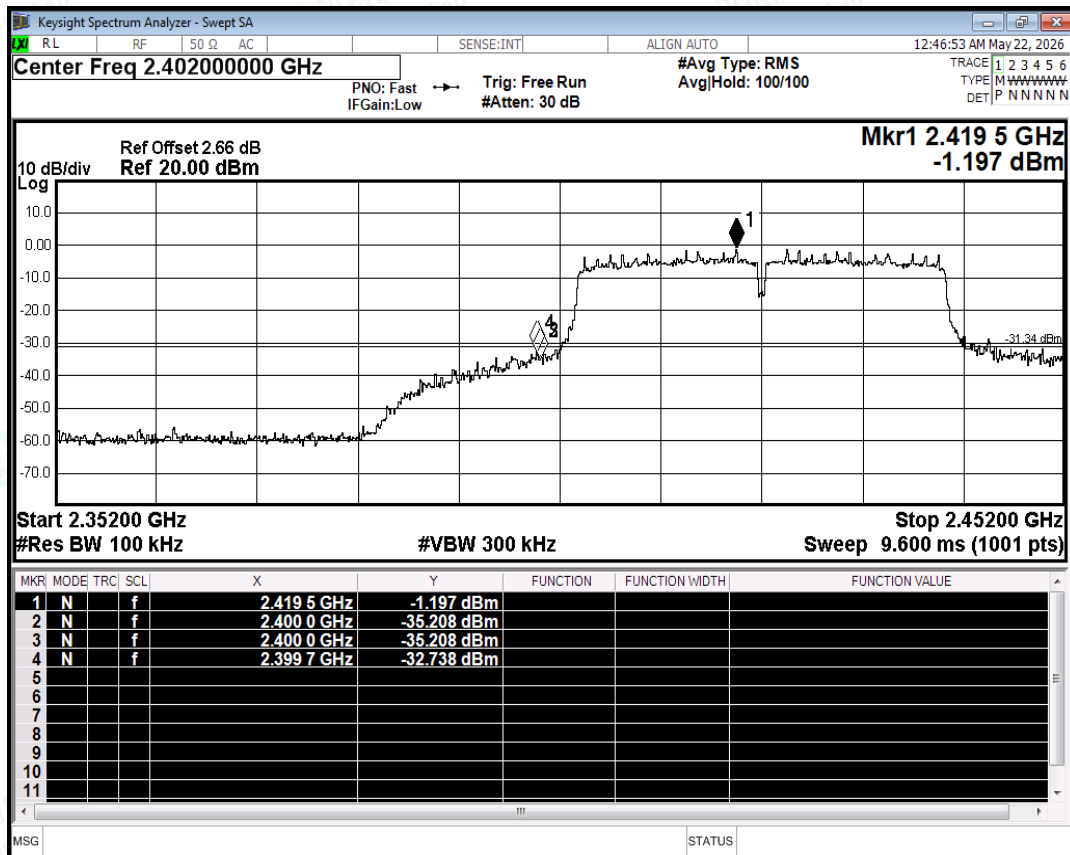
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission

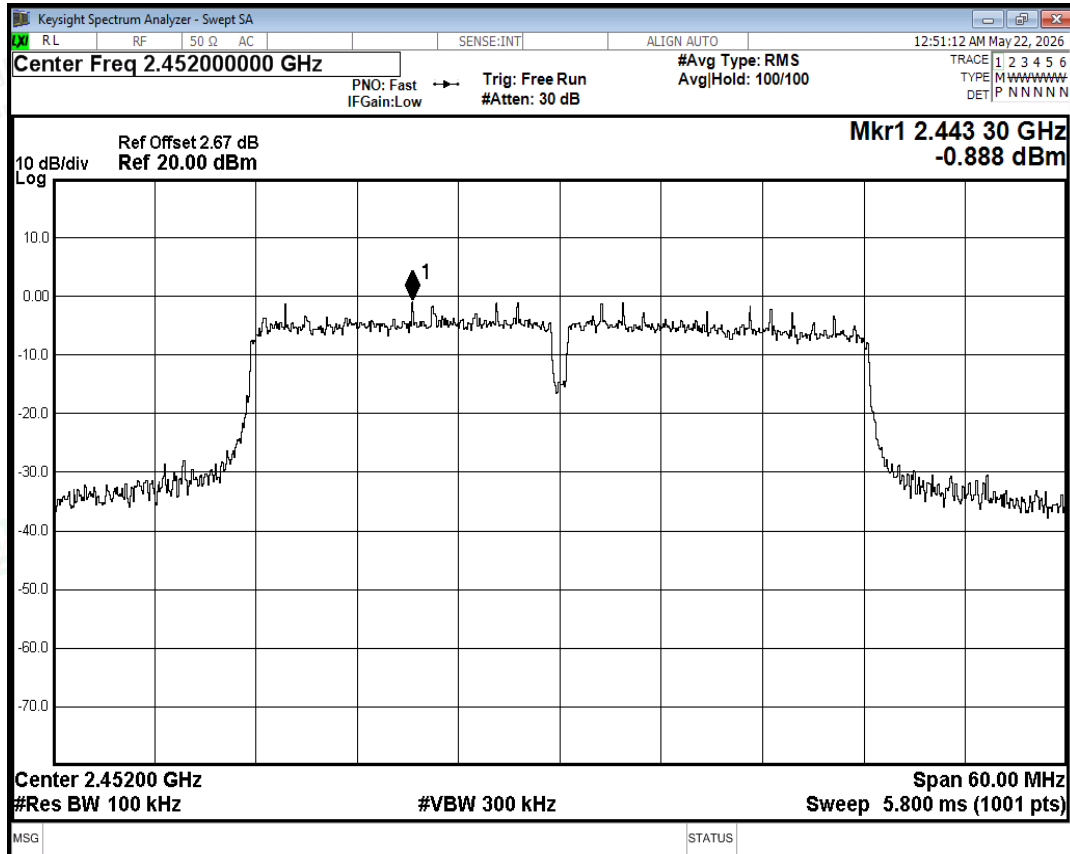


Shenzhen LCS Compliance Testing Laboratory Ltd.

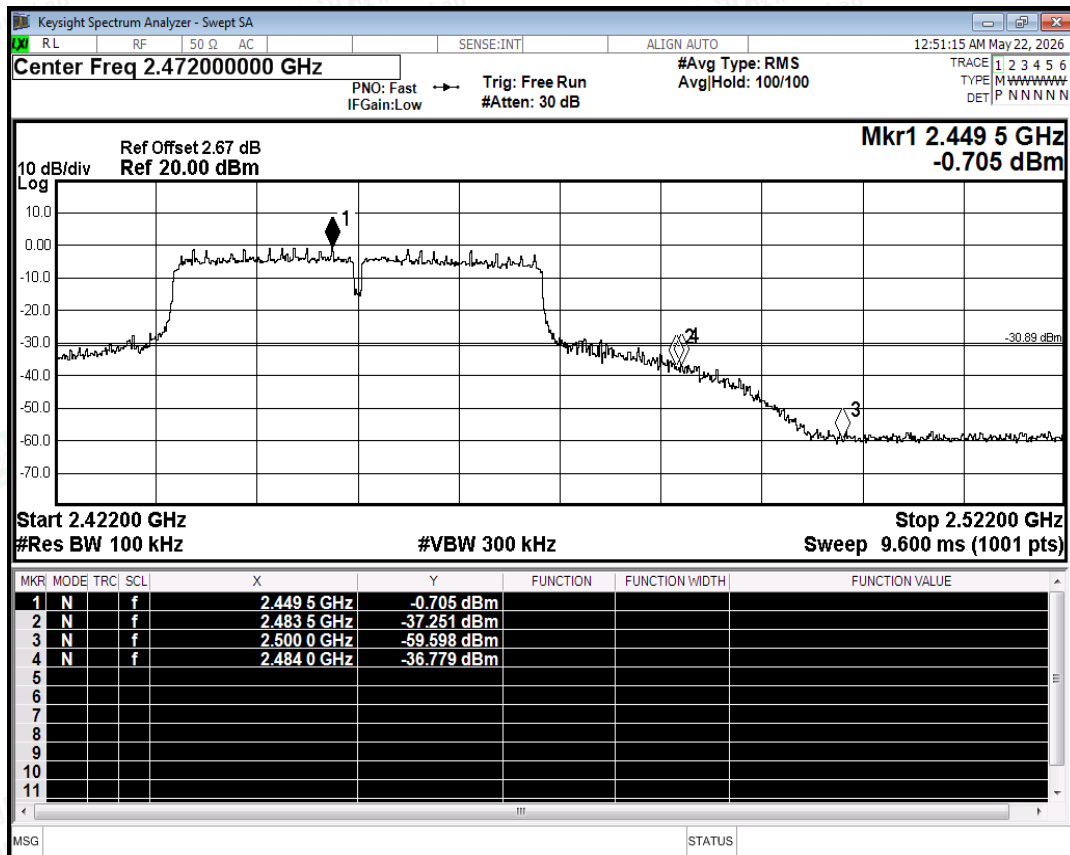
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



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

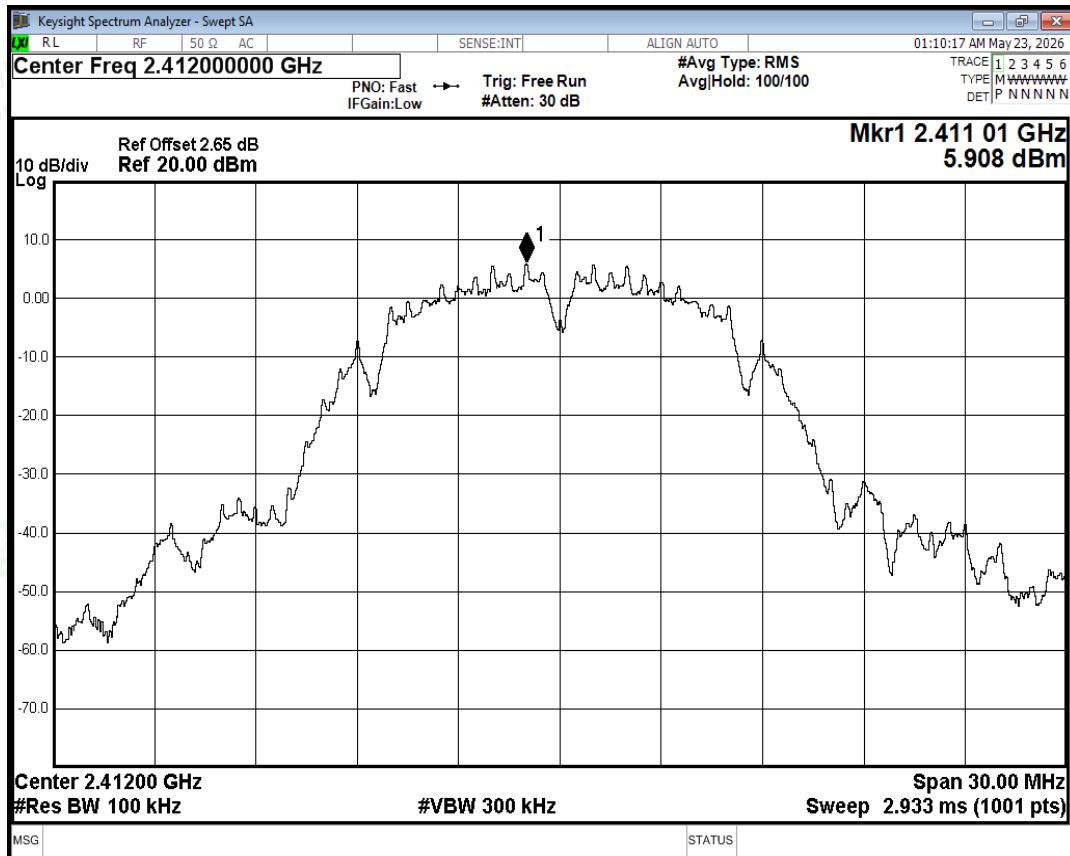
Scan code to check authenticity



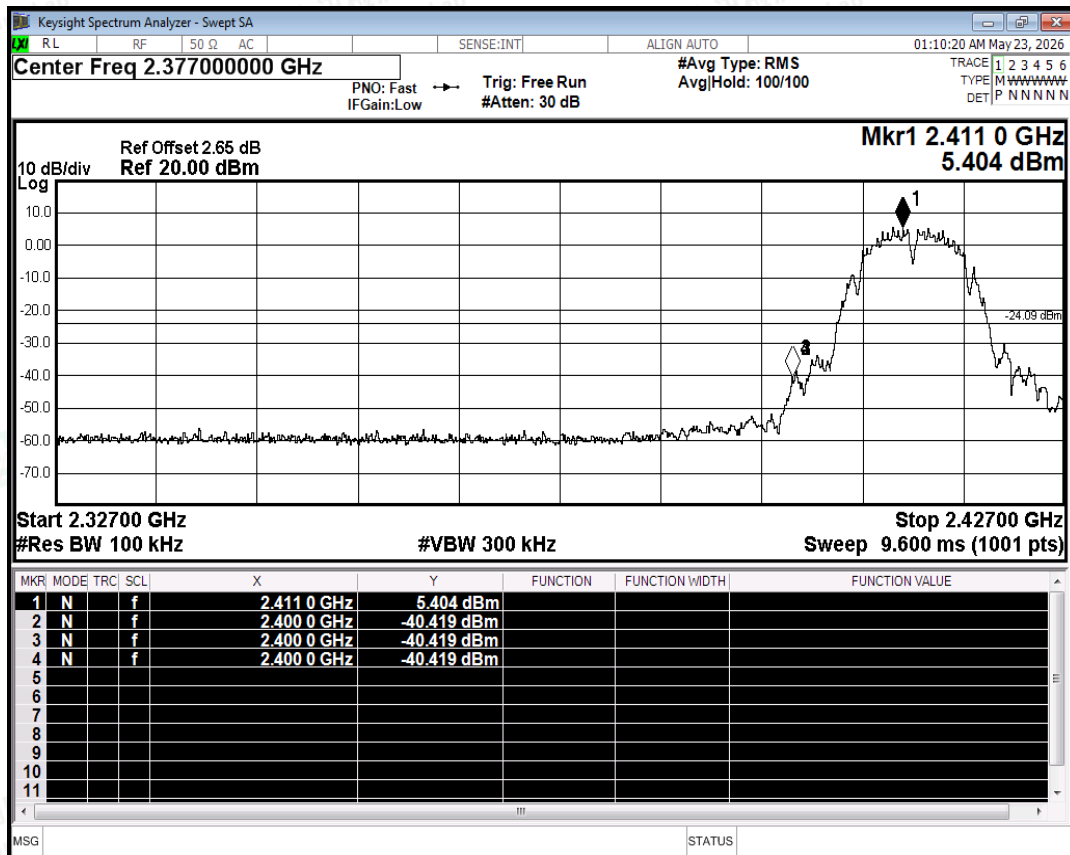
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant2    | -46.32          | -30         | Pass    |
| NVNT      | b    | 2462            | Ant2    | -58.11          | -30         | Pass    |
| NVNT      | g    | 2412            | Ant2    | -31.88          | -30         | Pass    |
| NVNT      | g    | 2462            | Ant2    | -40.64          | -30         | Pass    |
| NVNT      | n20  | 2412            | Ant2    | -32.17          | -30         | Pass    |
| NVNT      | n20  | 2462            | Ant2    | -41.16          | -30         | Pass    |
| NVNT      | n40  | 2422            | Ant2    | -33.11          | -30         | Pass    |
| NVNT      | n40  | 2452            | Ant2    | -36.13          | -30         | Pass    |

Note :offset=System attenuation +cabal loss





Band Edge NVNT b 2412MHz Ant2 Ref



Band Edge NVNT b 2412MHz Ant2 Emission

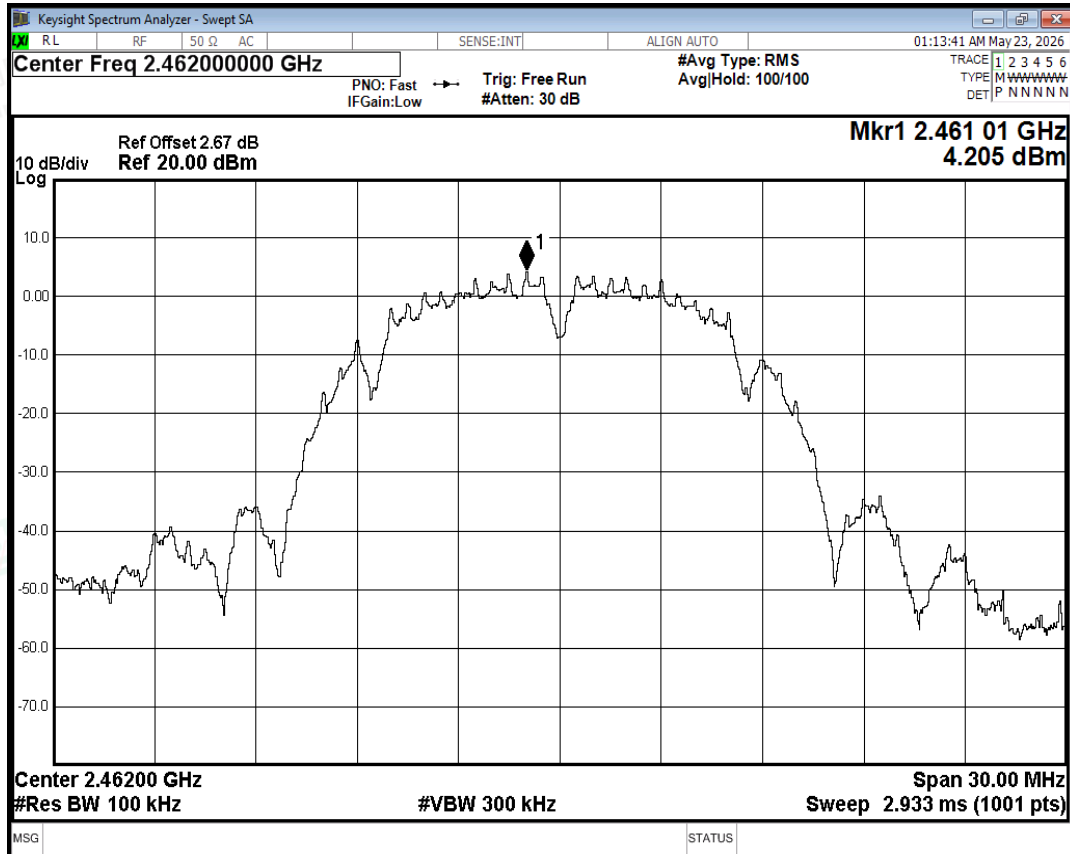


Shenzhen LCS Compliance Testing Laboratory Ltd.

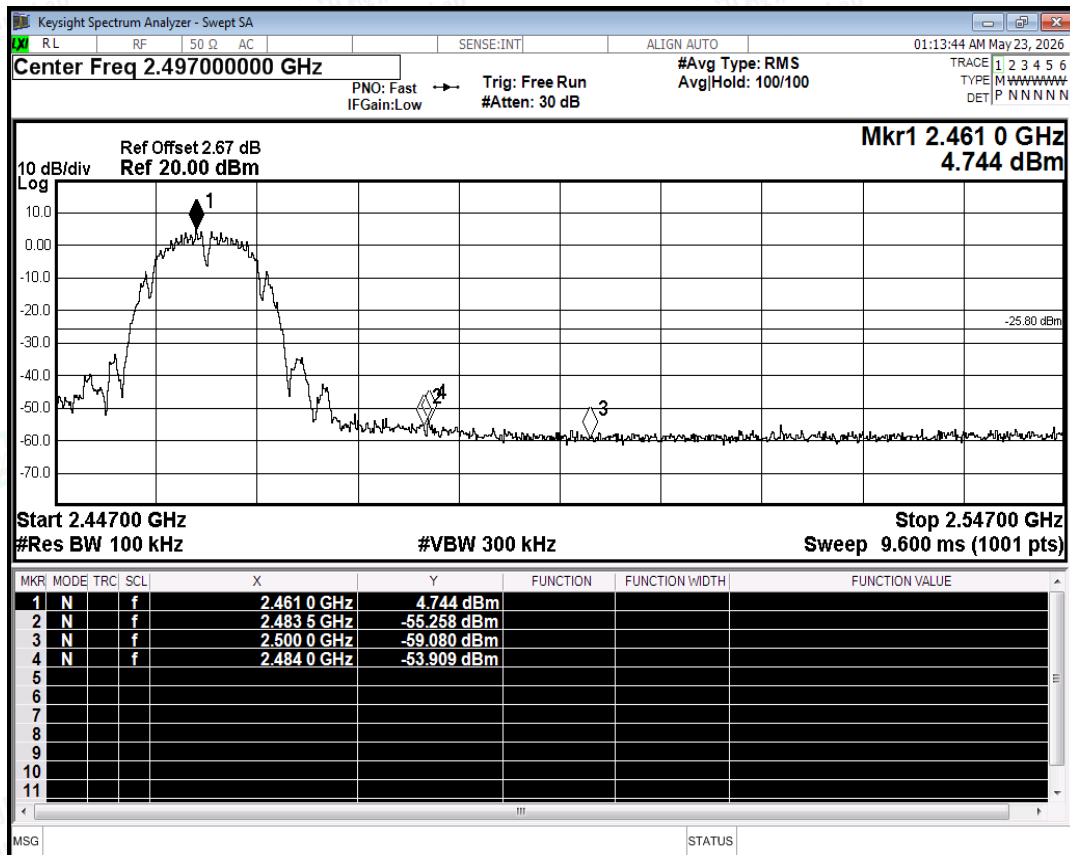
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT b 2462MHz Ant2 Ref



Band Edge NVNT b 2462MHz Ant2 Emission

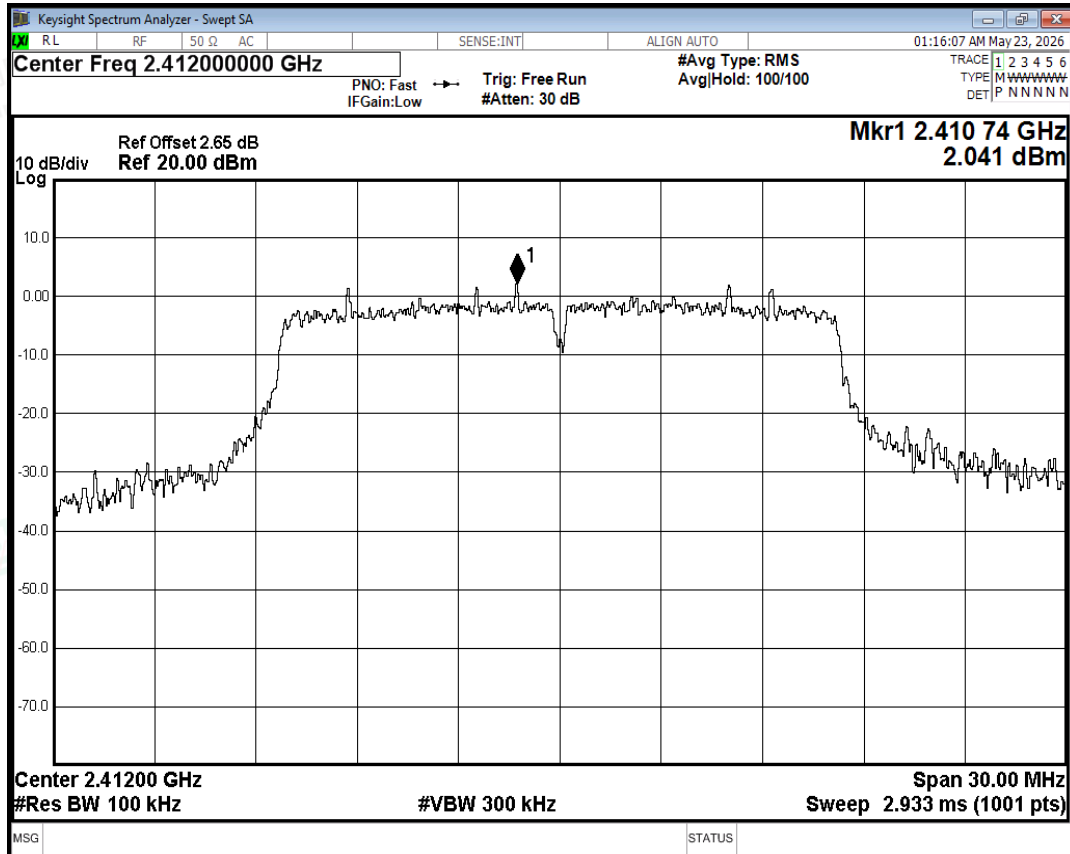


Shenzhen LCS Compliance Testing Laboratory Ltd.

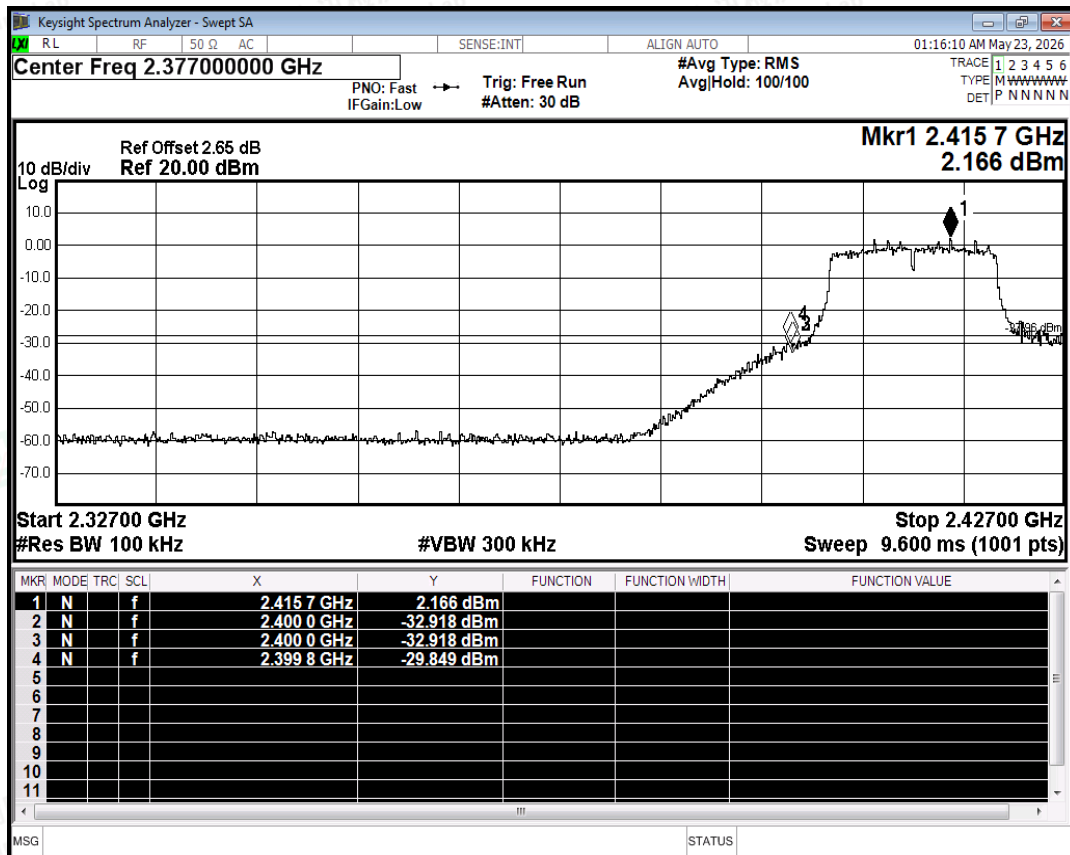
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Band Edge NVNT g 2412MHz Ant2 Ref



Band Edge NVNT g 2412MHz Ant2 Emission

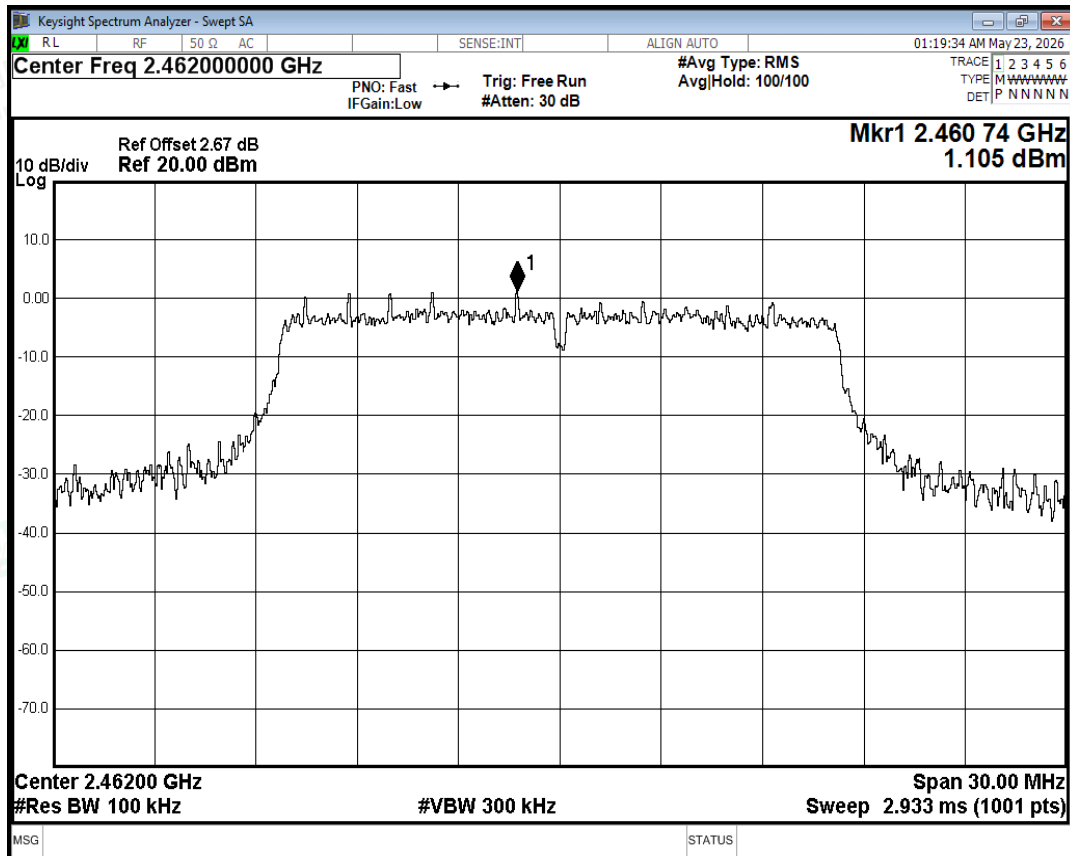


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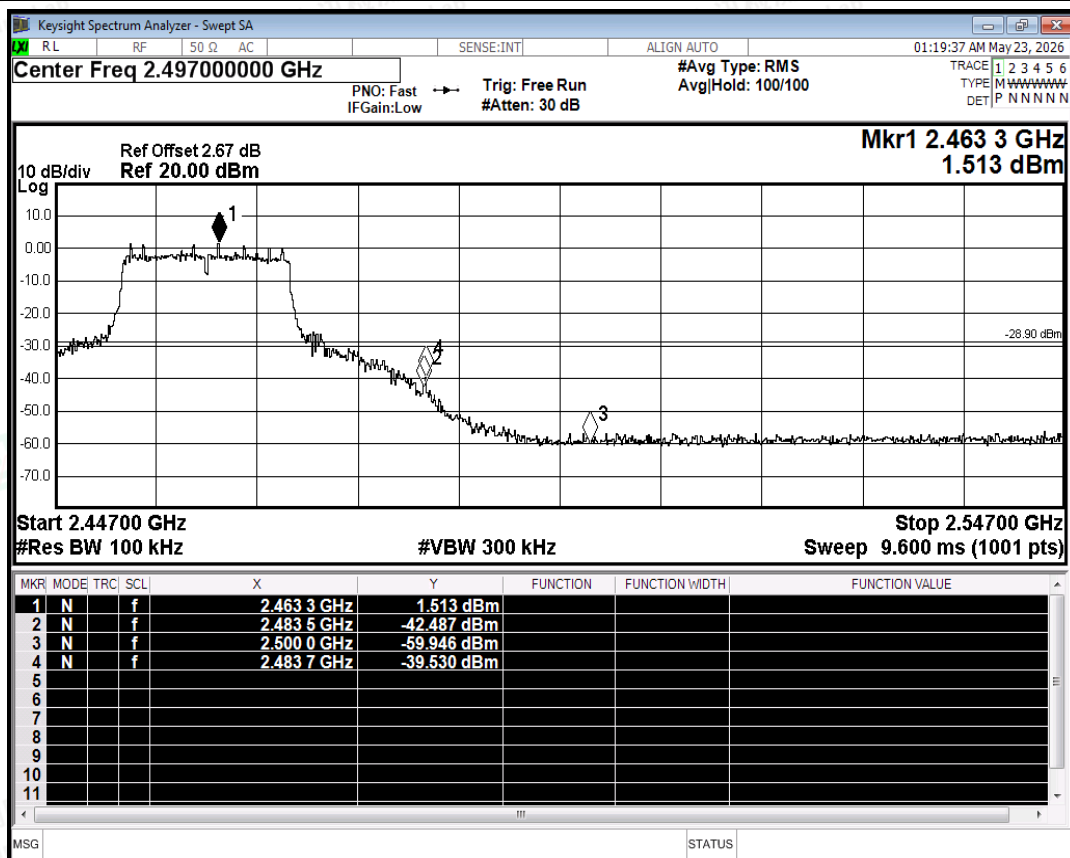
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT g 2462MHz Ant2 Emission

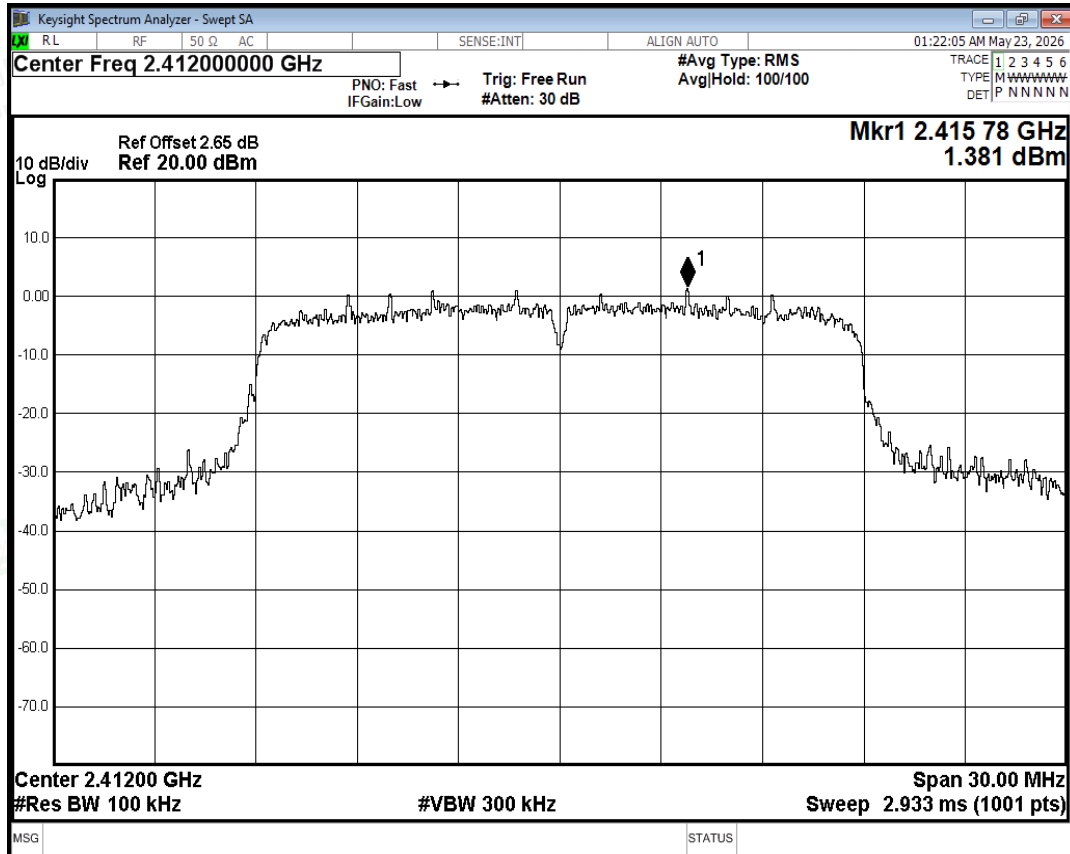


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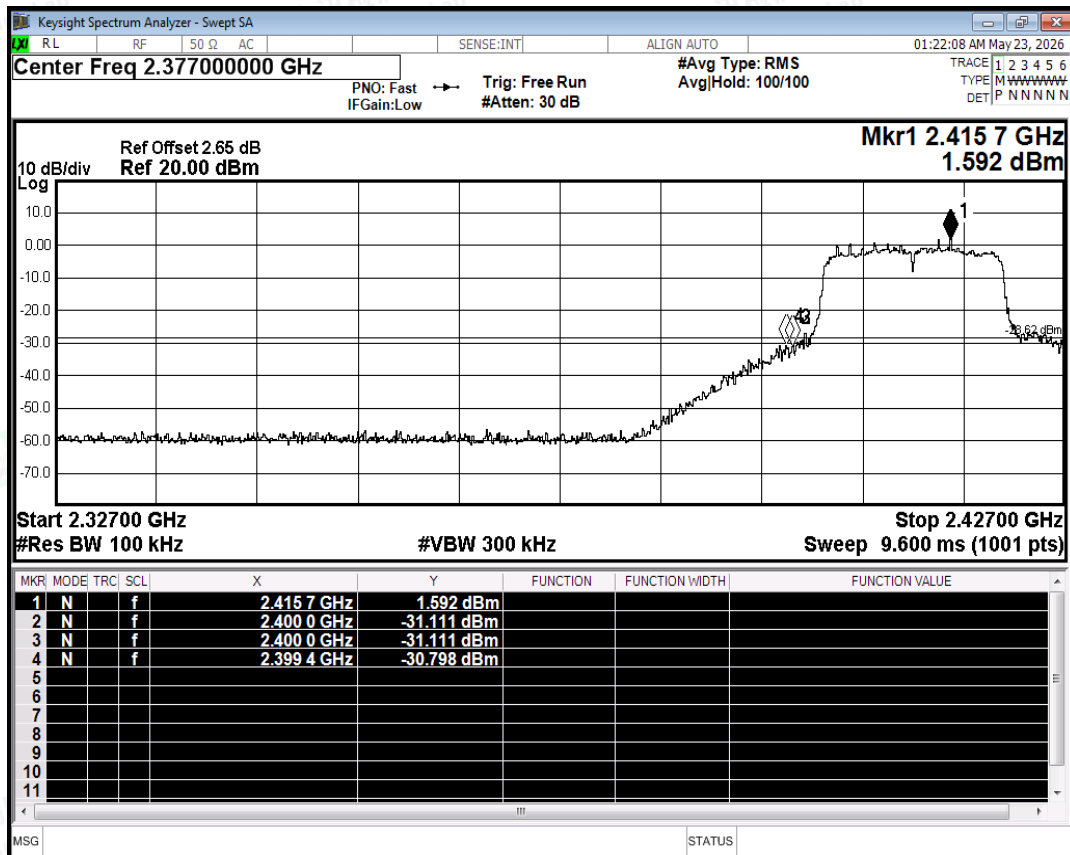
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n20 2412MHz Ant2 Ref



Band Edge NVNT n20 2412MHz Ant2 Emission

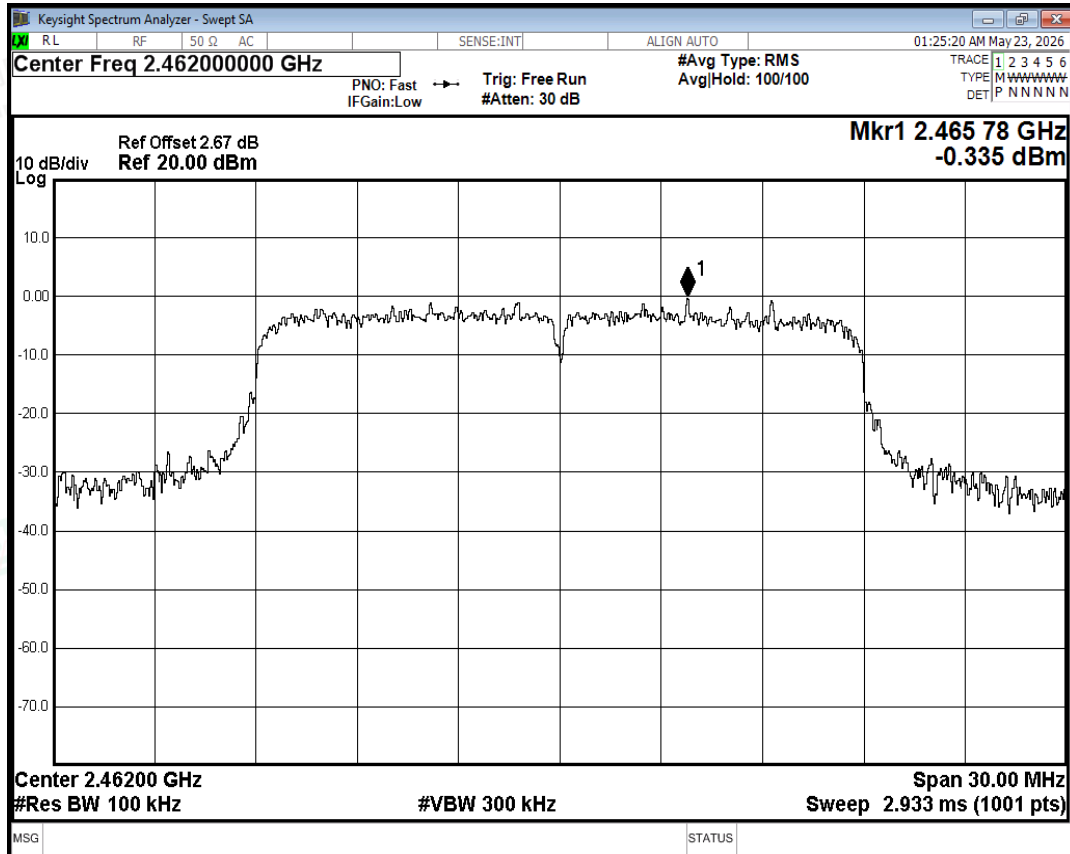


Shenzhen LCS Compliance Testing Laboratory Ltd.

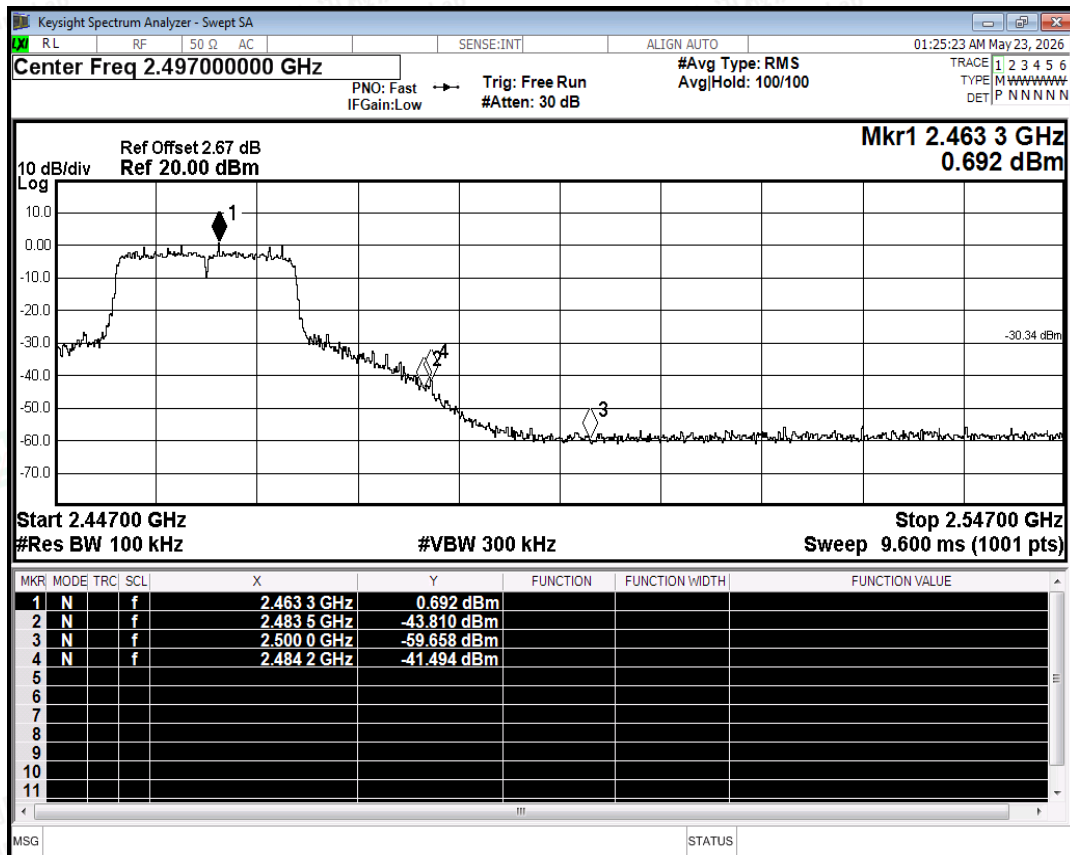
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n20 2462MHz Ant2 Ref



Band Edge NVNT n20 2462MHz Ant2 Emission

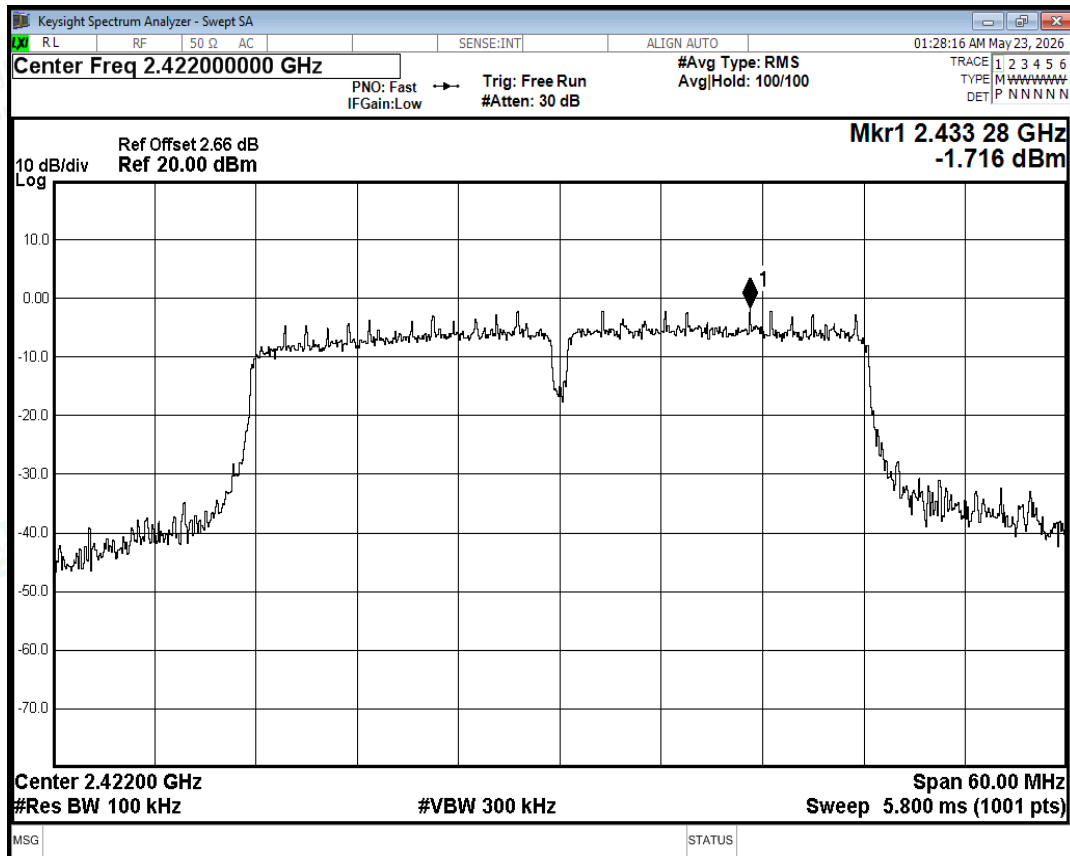


Shenzhen LCS Compliance Testing Laboratory Ltd.

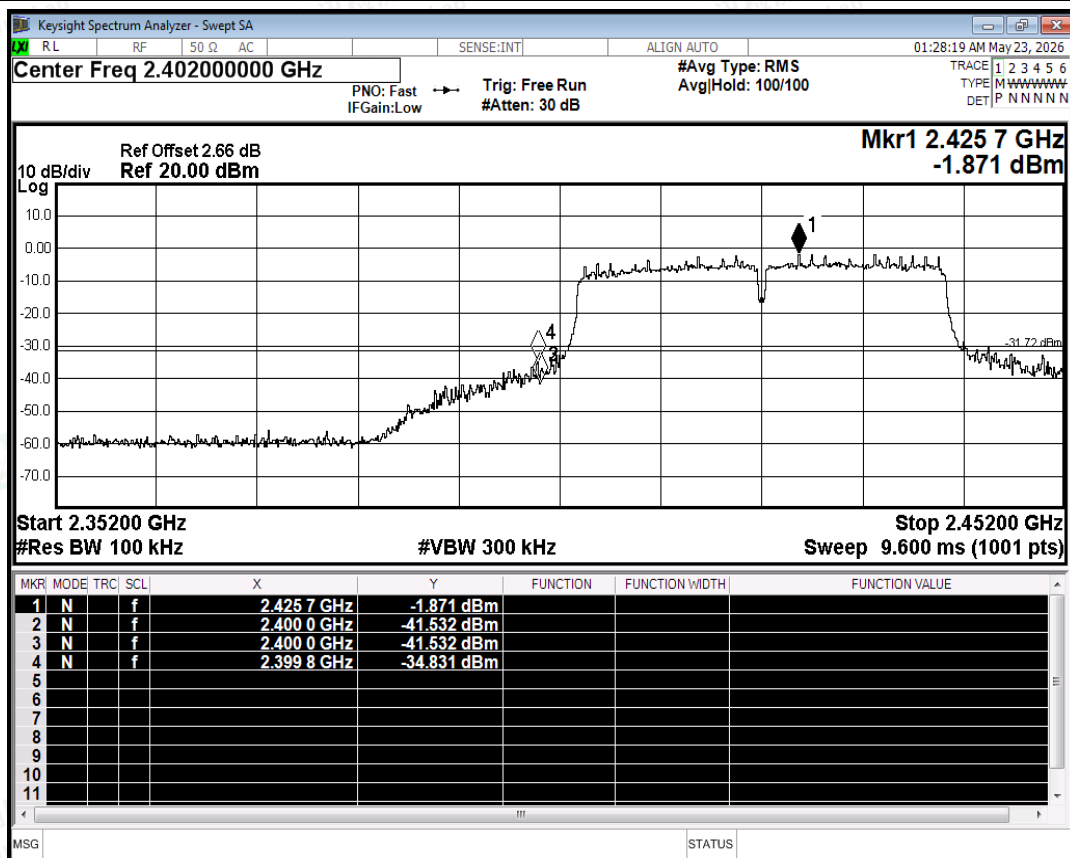
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n40 2422MHz Ant2 Ref



Band Edge NVNT n40 2422MHz Ant2 Emission

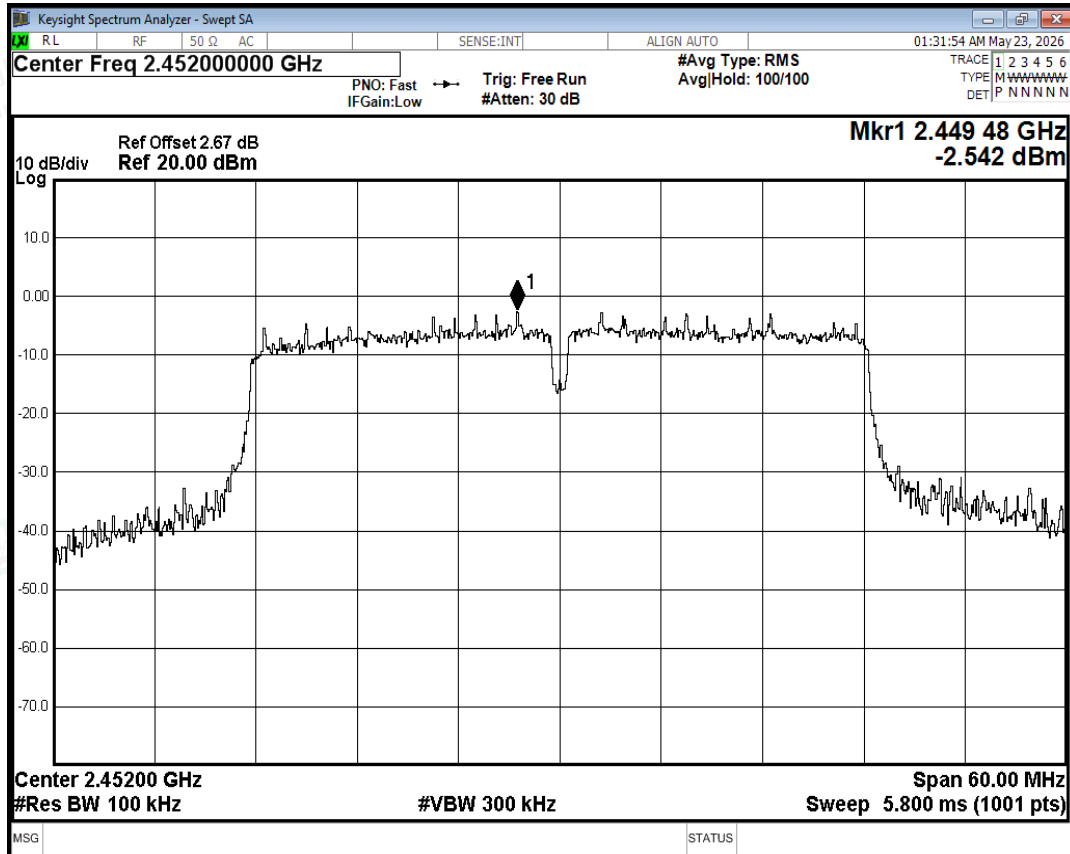


Shenzhen LCS Compliance Testing Laboratory Ltd.

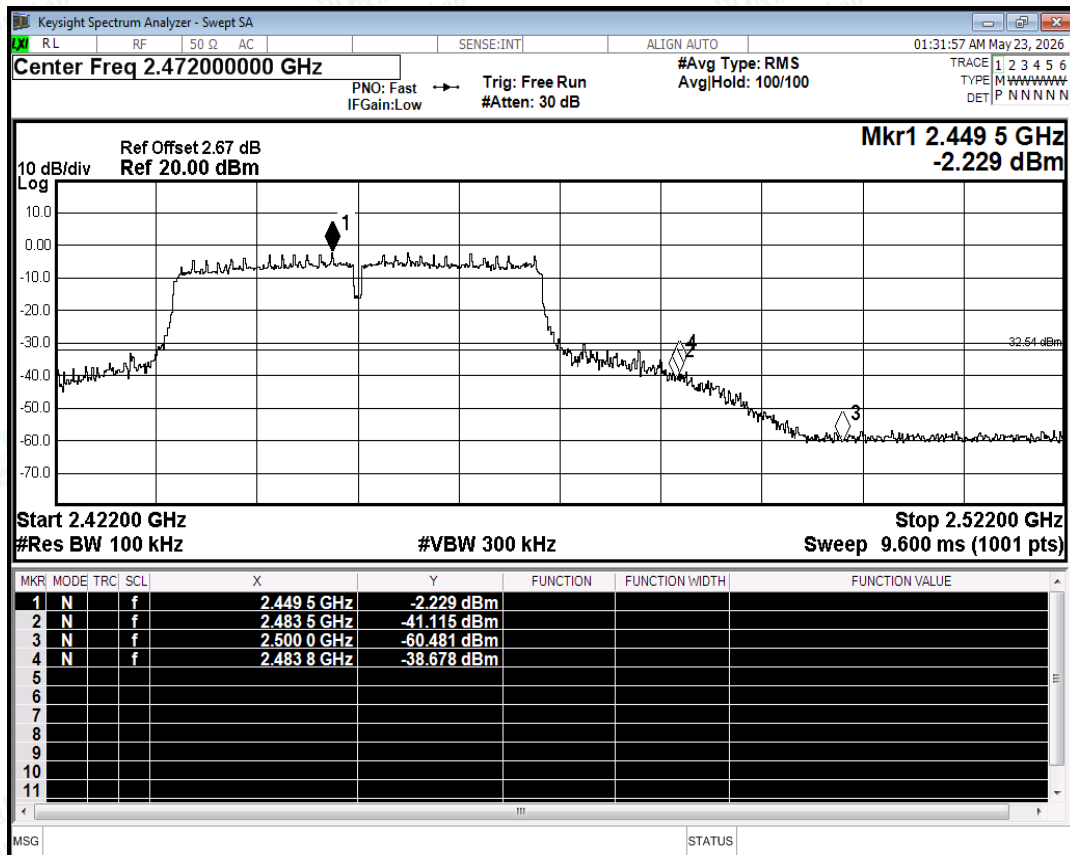
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band Edge NVNT n40 2452MHz Ant2 Ref



Band Edge NVNT n40 2452MHz Ant2 Emission



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

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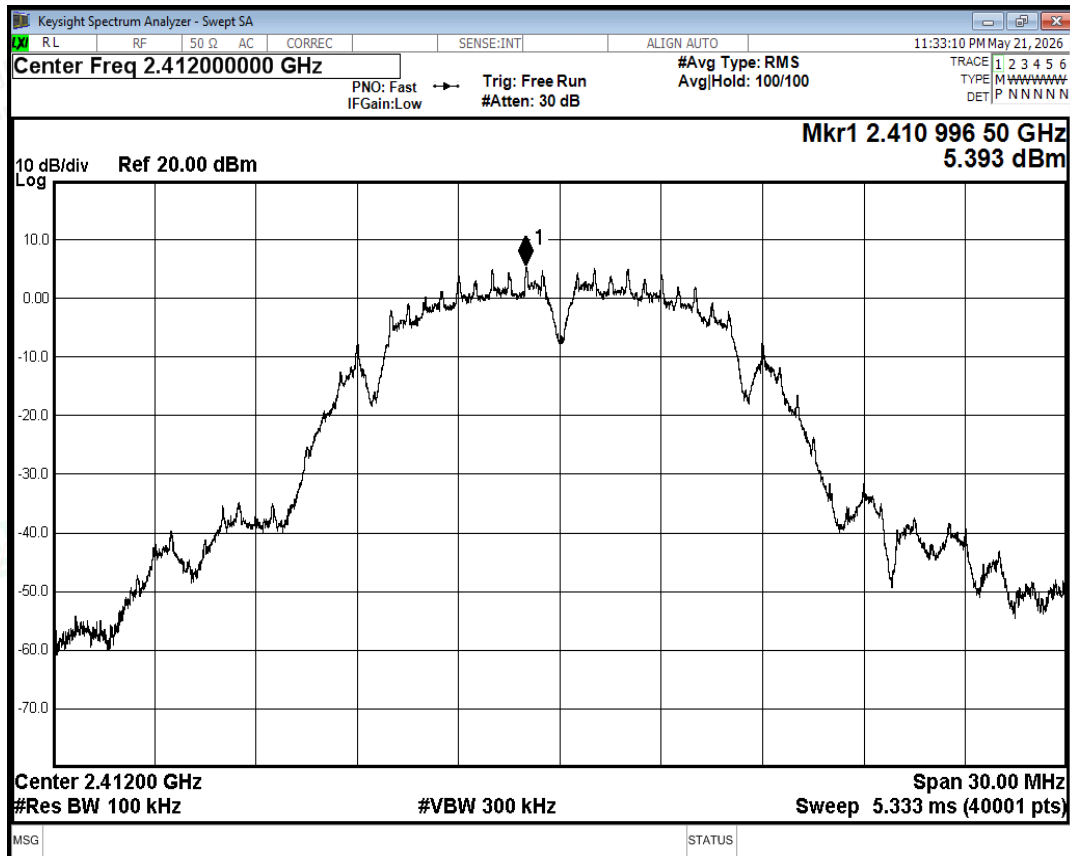


## C.5 Conducted RF Spurious Emission

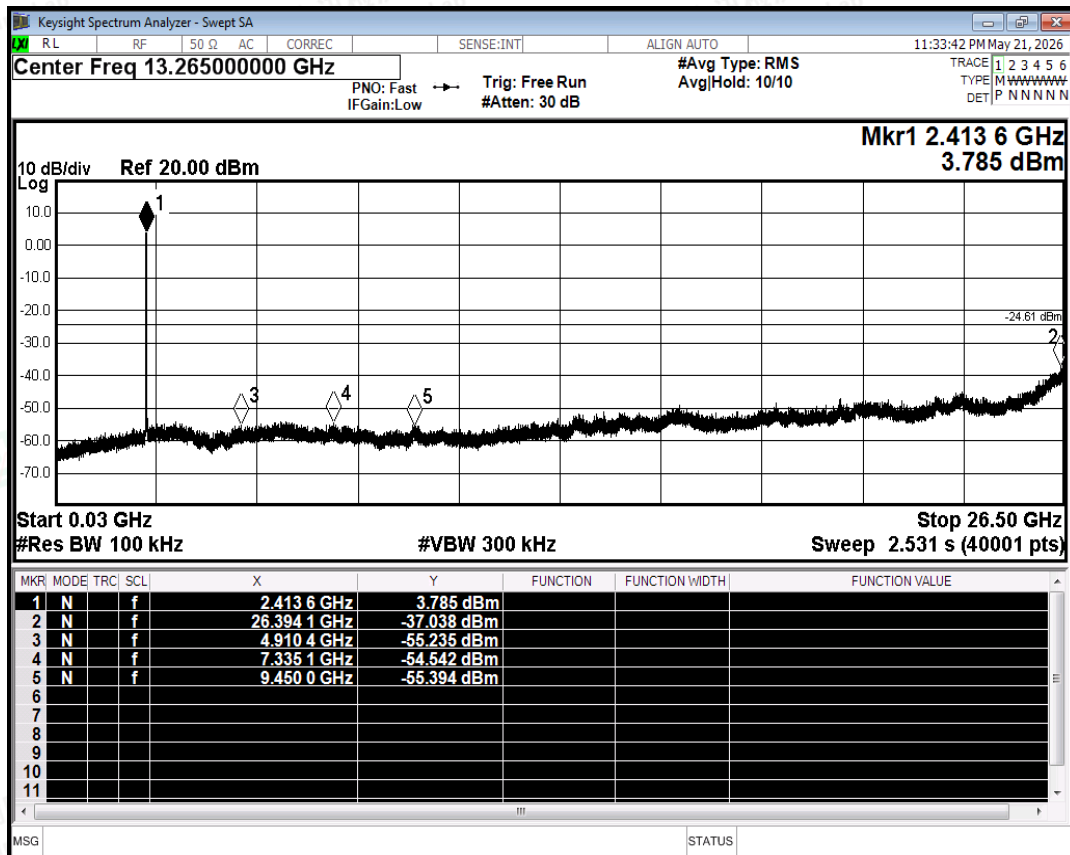
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -42.42          | -30         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -42.51          | -30         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -41.68          | -30         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -39.28          | -30         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -37.57          | -30         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -38.96          | -30         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -39.34          | -30         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -38.04          | -30         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -37.7           | -30         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -35.76          | -30         | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -36.55          | -30         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -36.82          | -30         | Pass    |

Note :Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.





Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

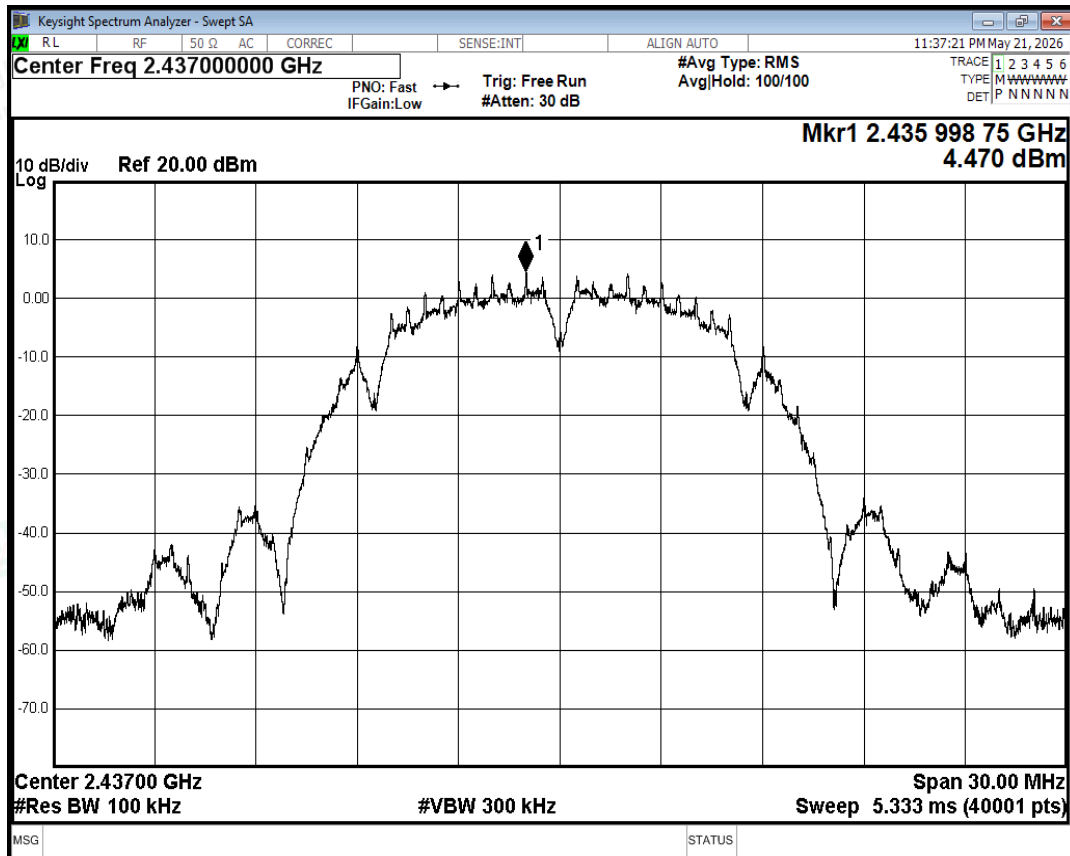


Shenzhen LCS Compliance Testing Laboratory Ltd.

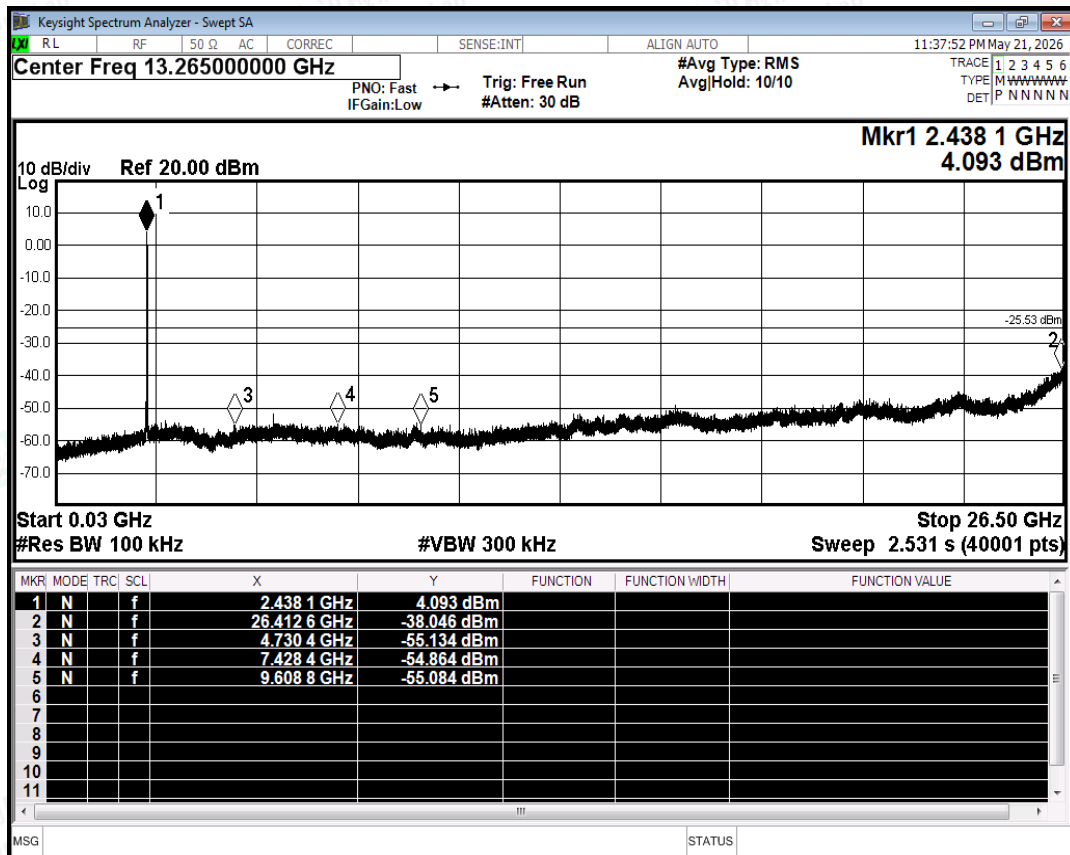
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission

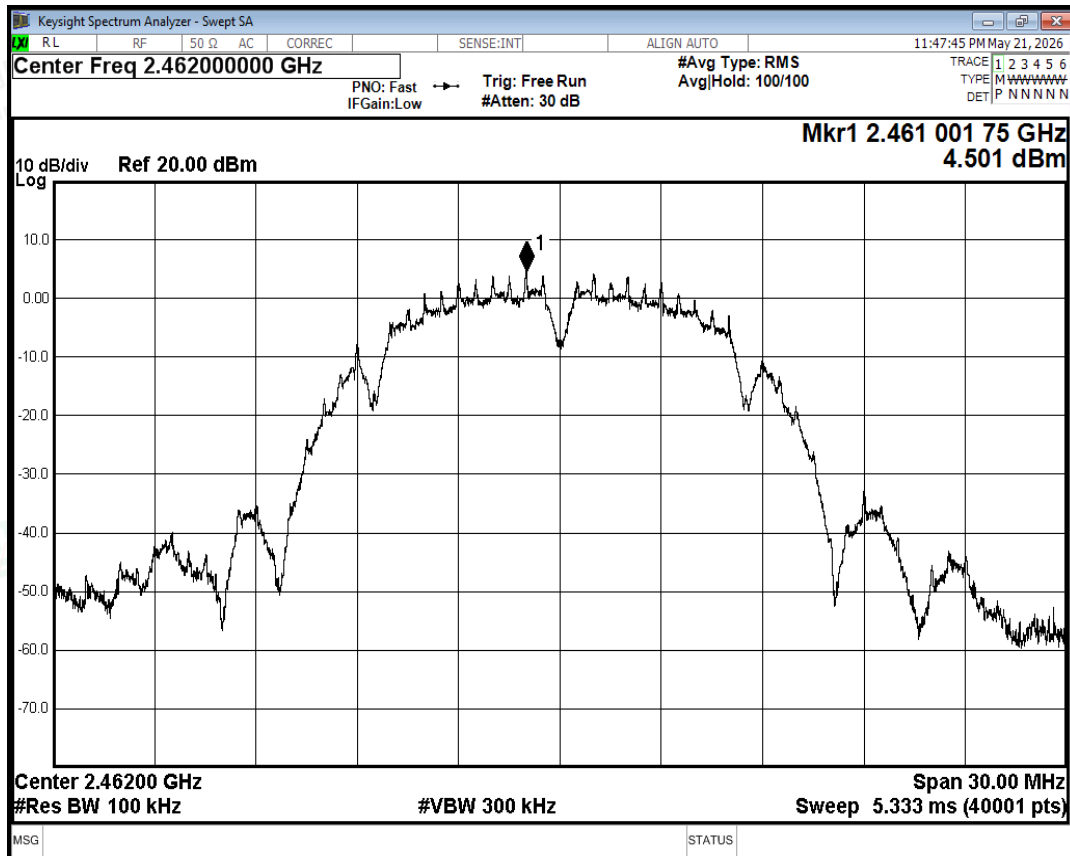


Shenzhen LCS Compliance Testing Laboratory Ltd.

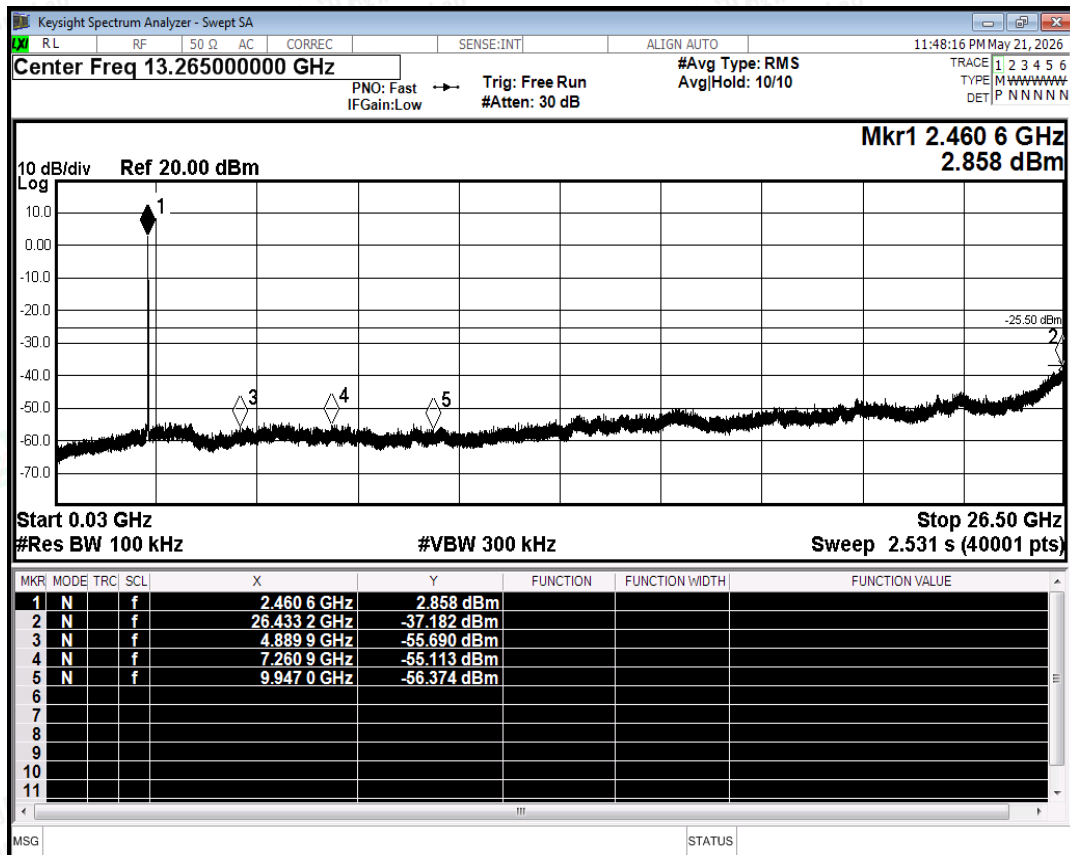
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission

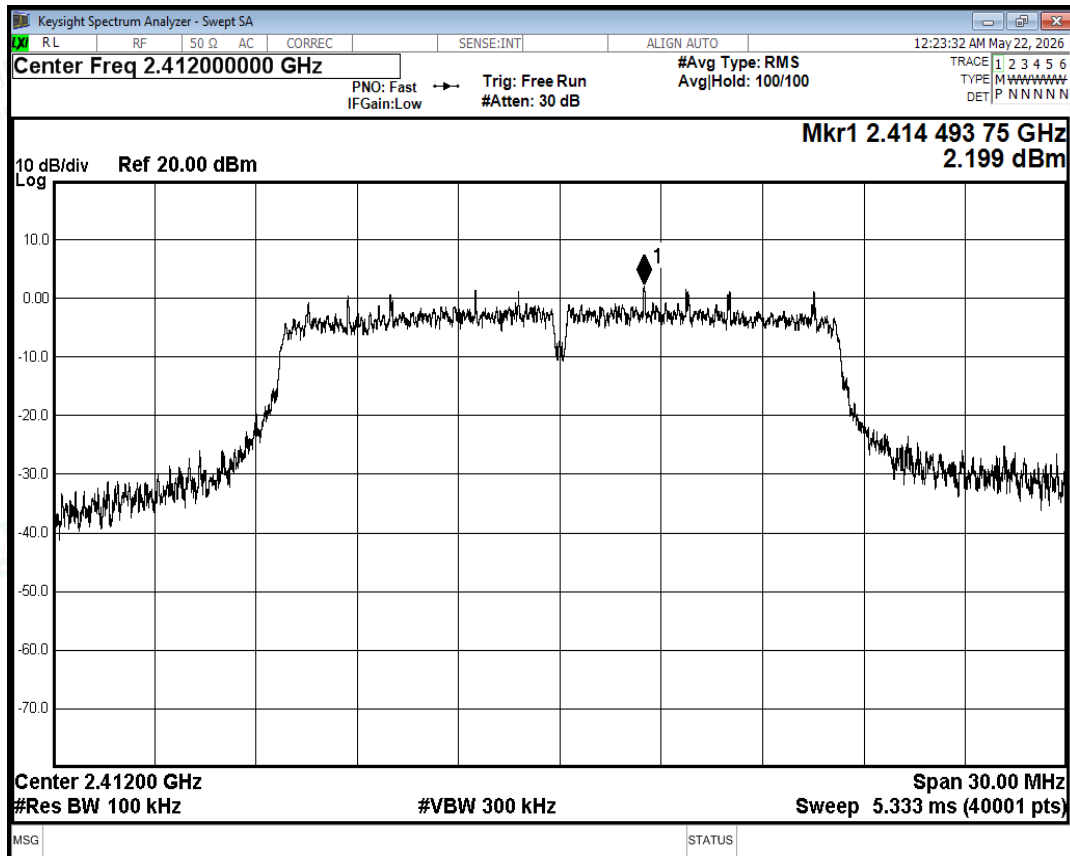


Shenzhen LCS Compliance Testing Laboratory Ltd.

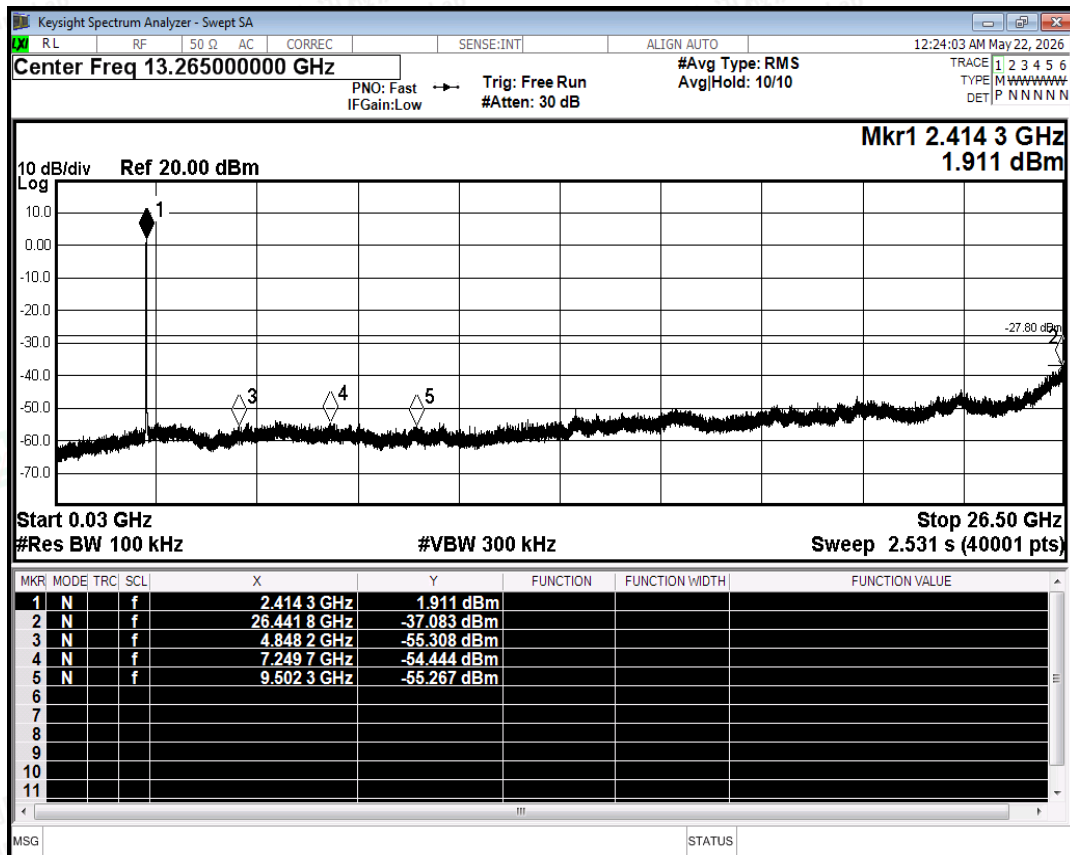
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission

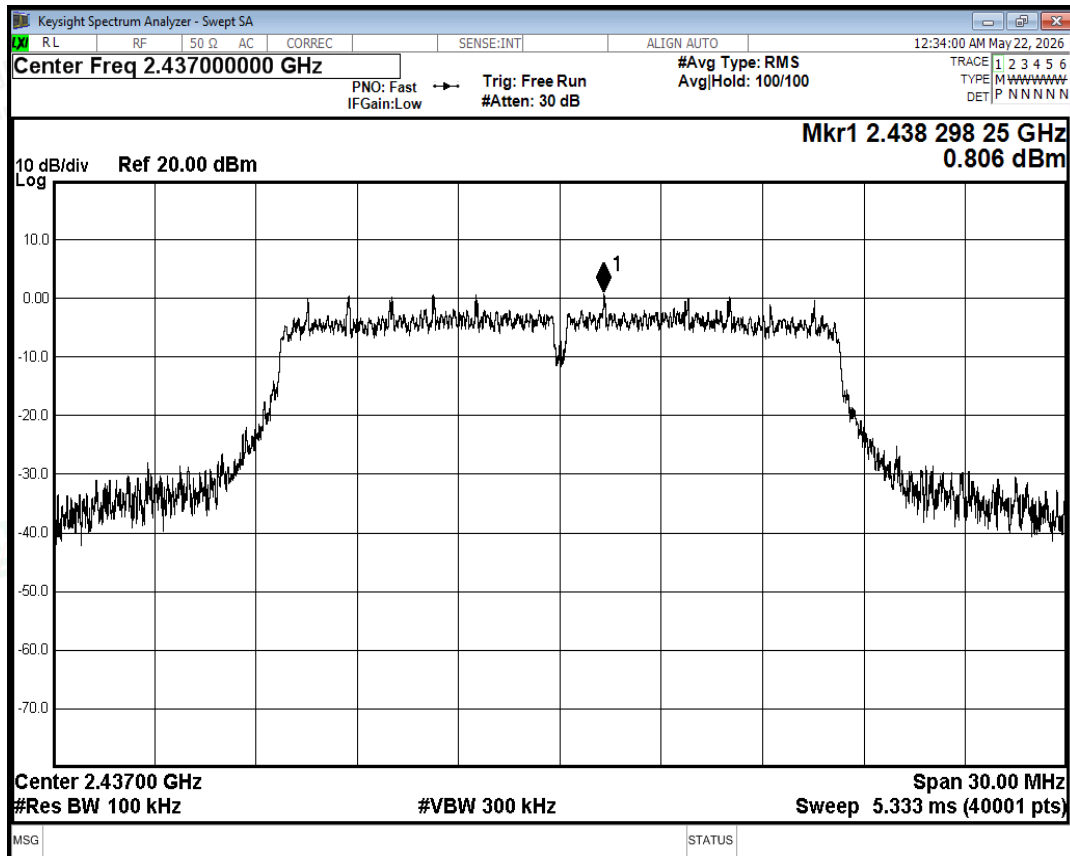


Shenzhen LCS Compliance Testing Laboratory Ltd.

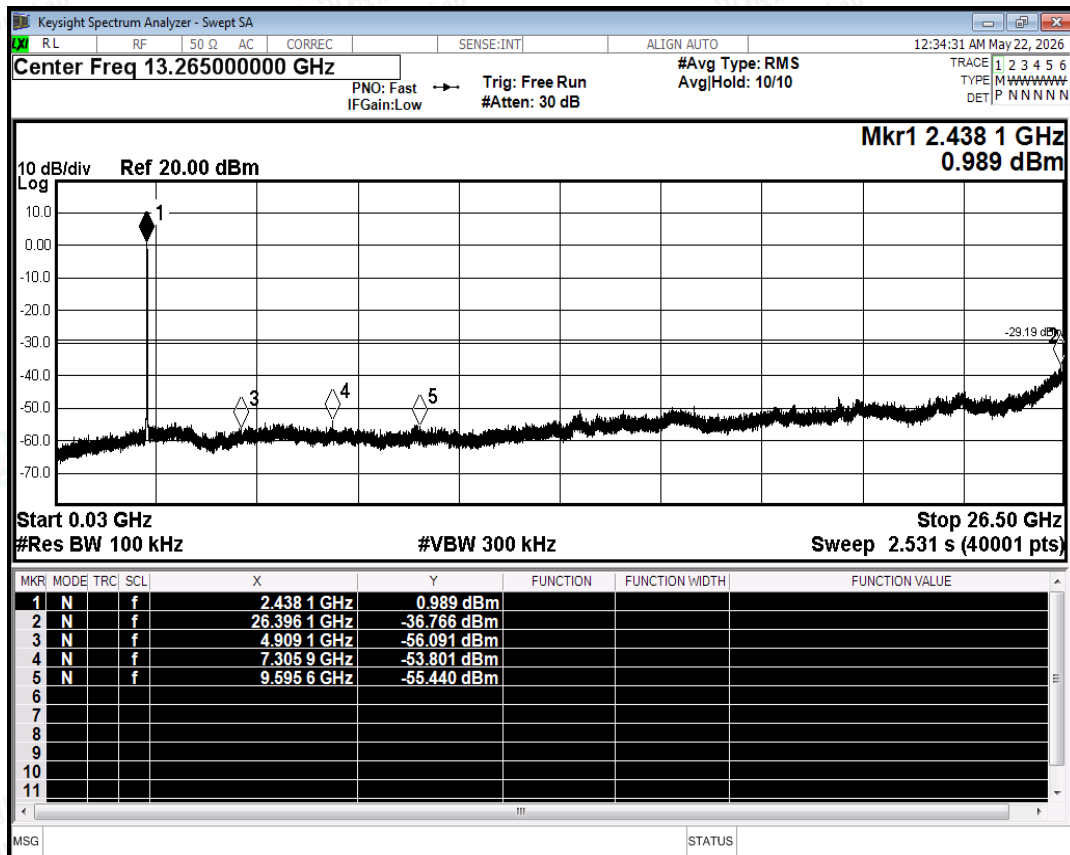
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission

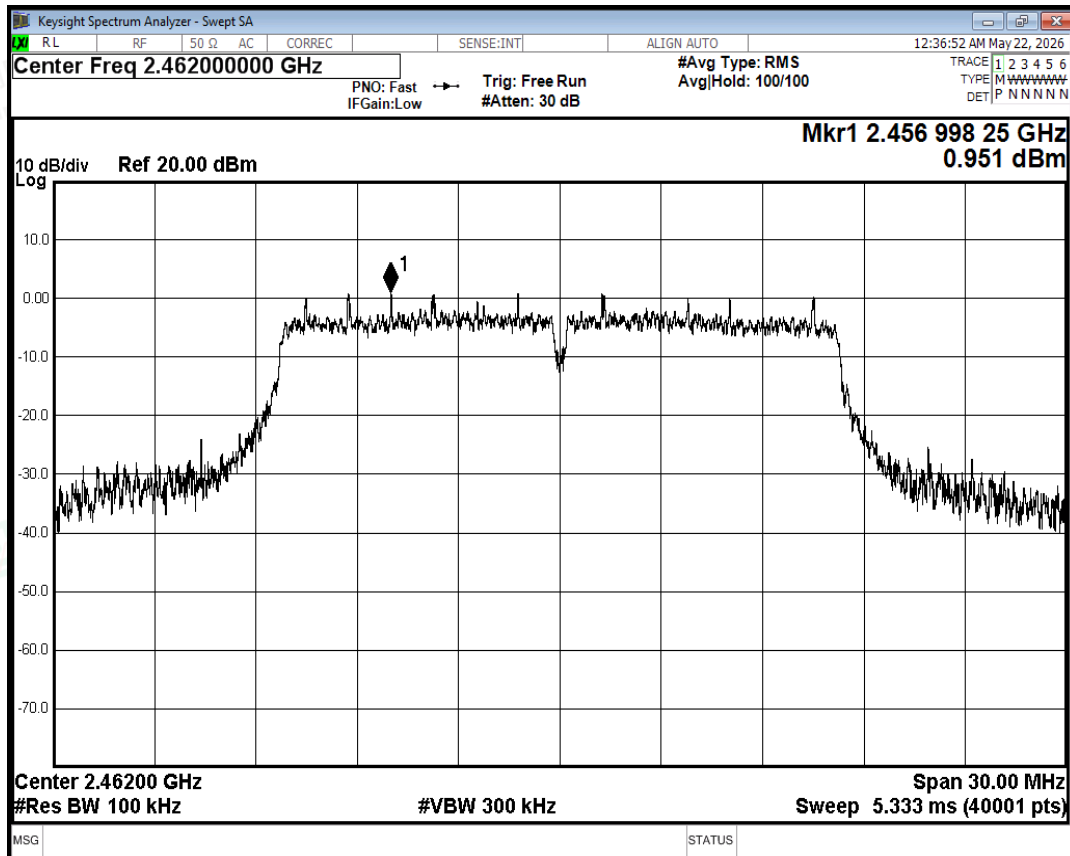


Shenzhen LCS Compliance Testing Laboratory Ltd.

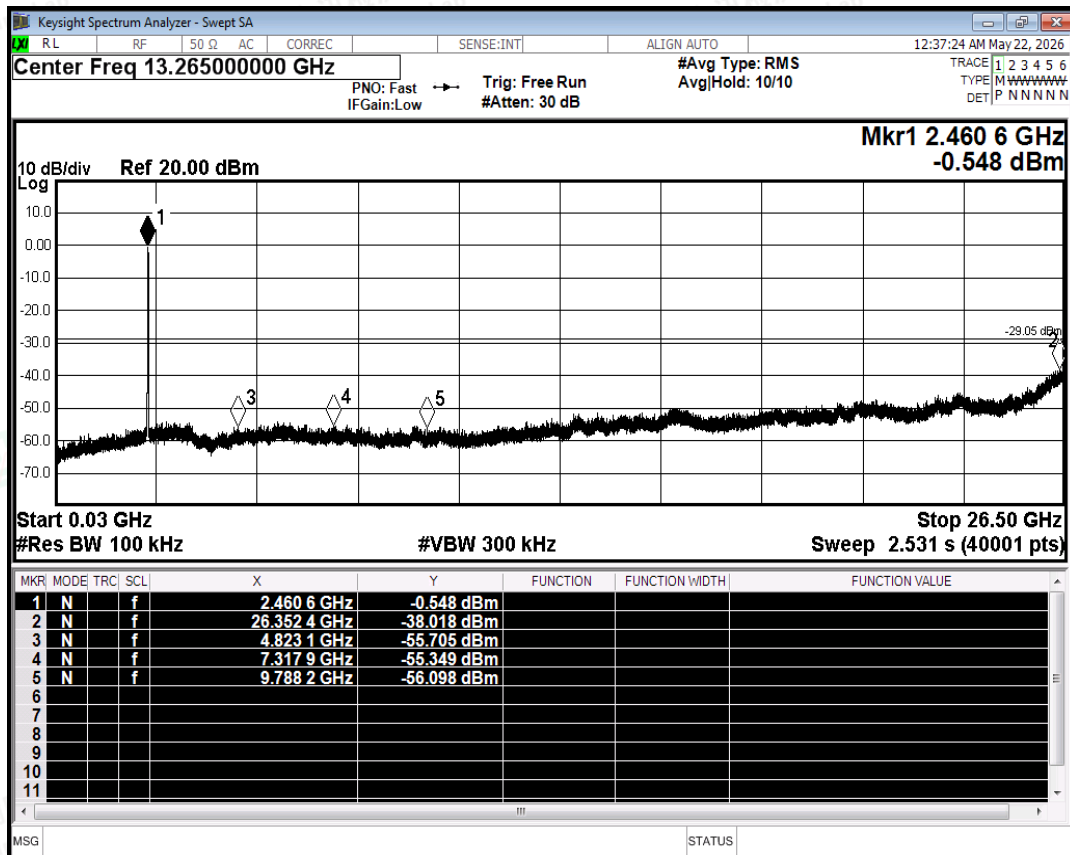
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission

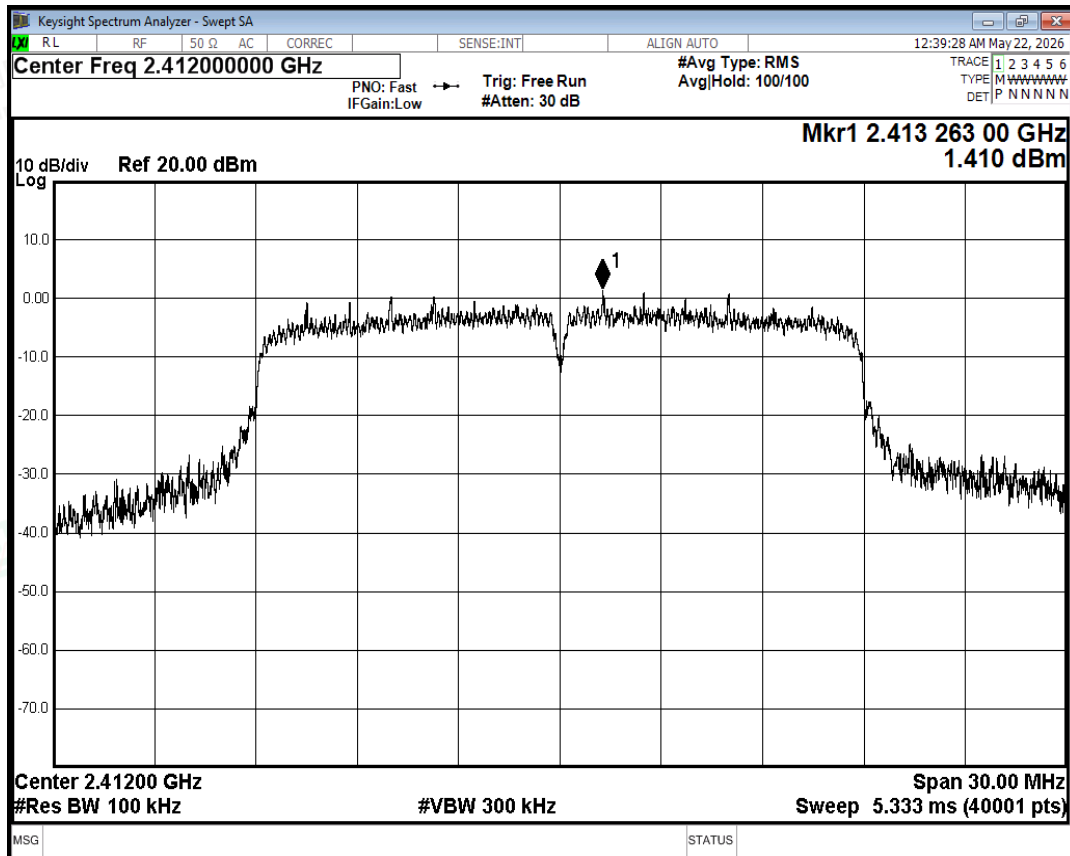


Shenzhen LCS Compliance Testing Laboratory Ltd.

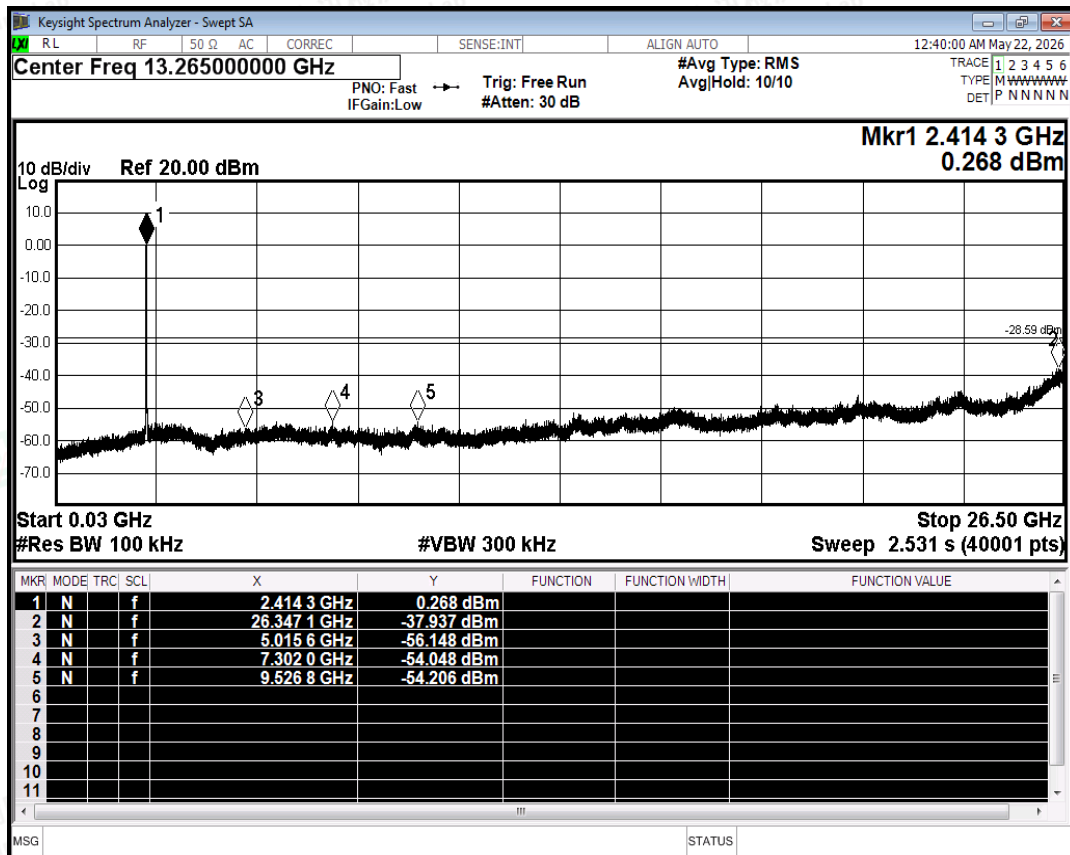
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission

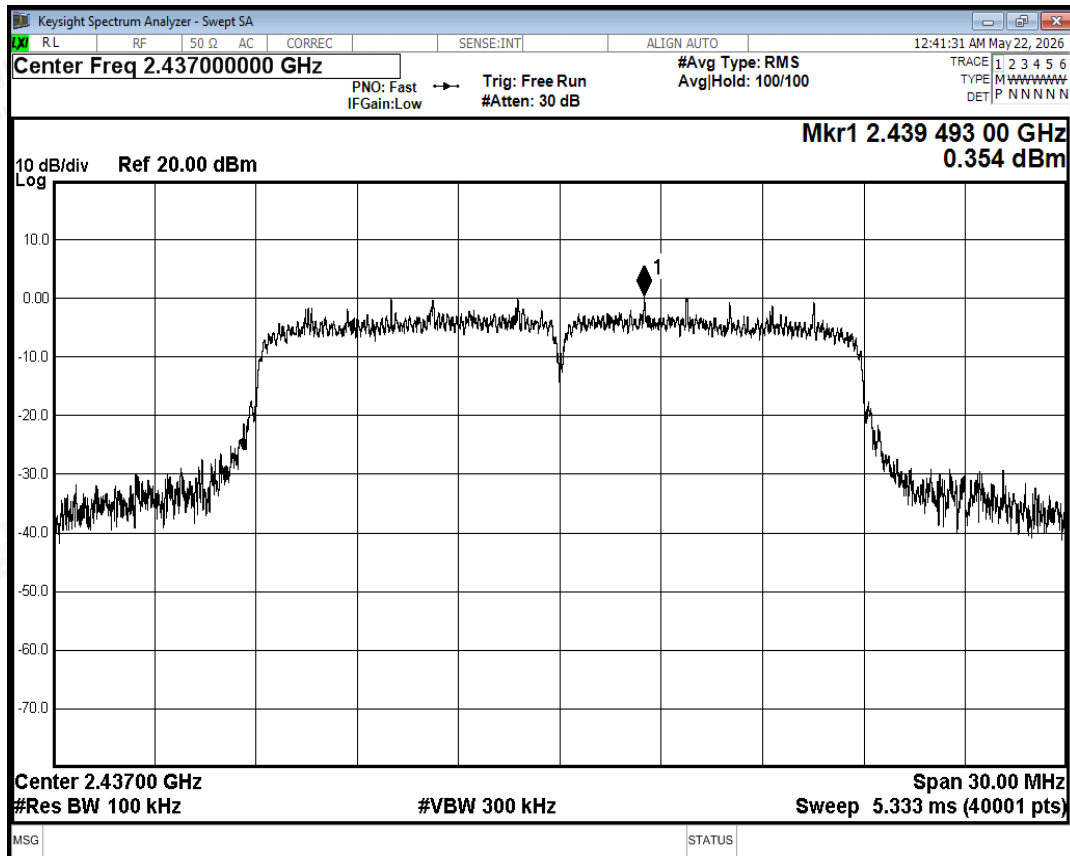


Shenzhen LCS Compliance Testing Laboratory Ltd.

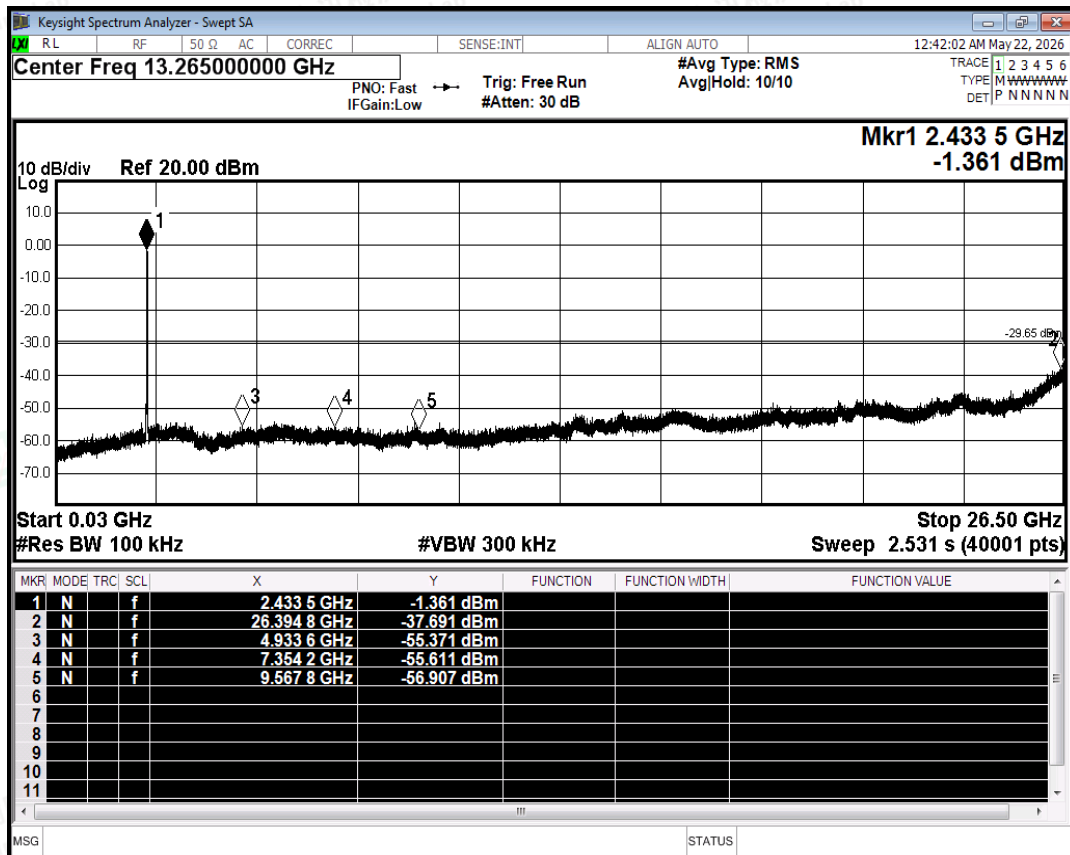
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission

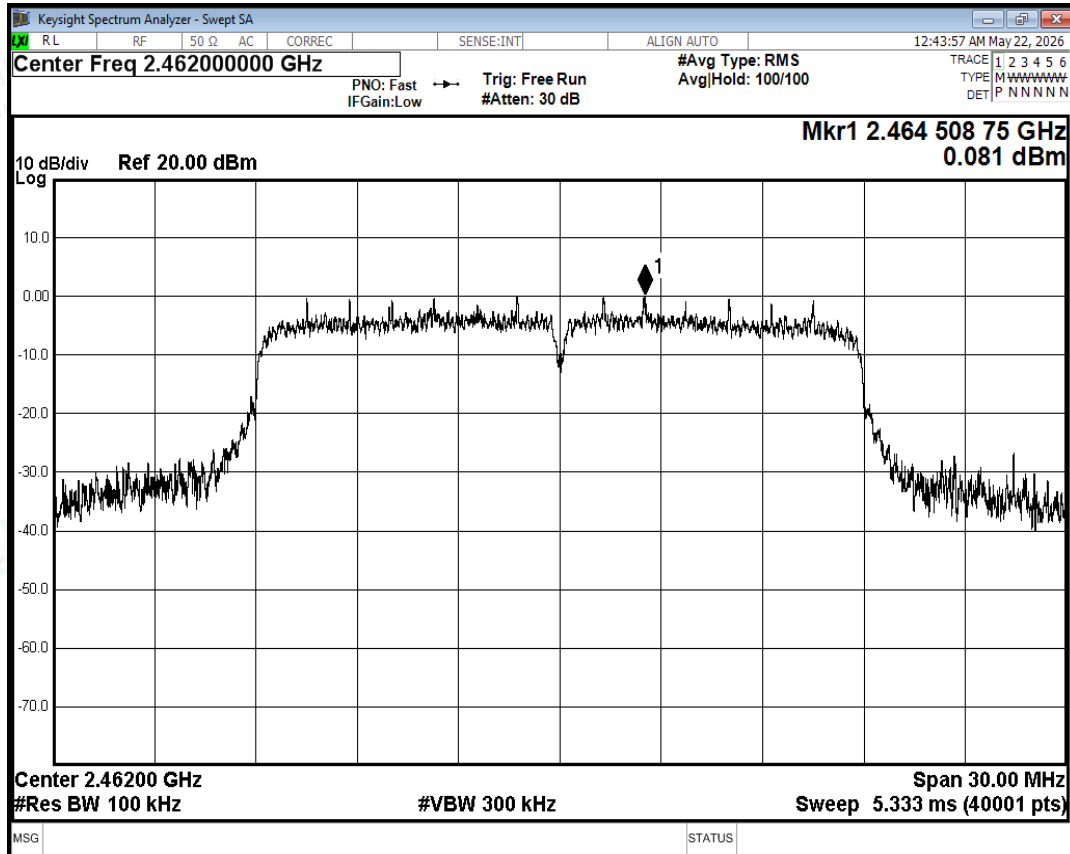


Shenzhen LCS Compliance Testing Laboratory Ltd.

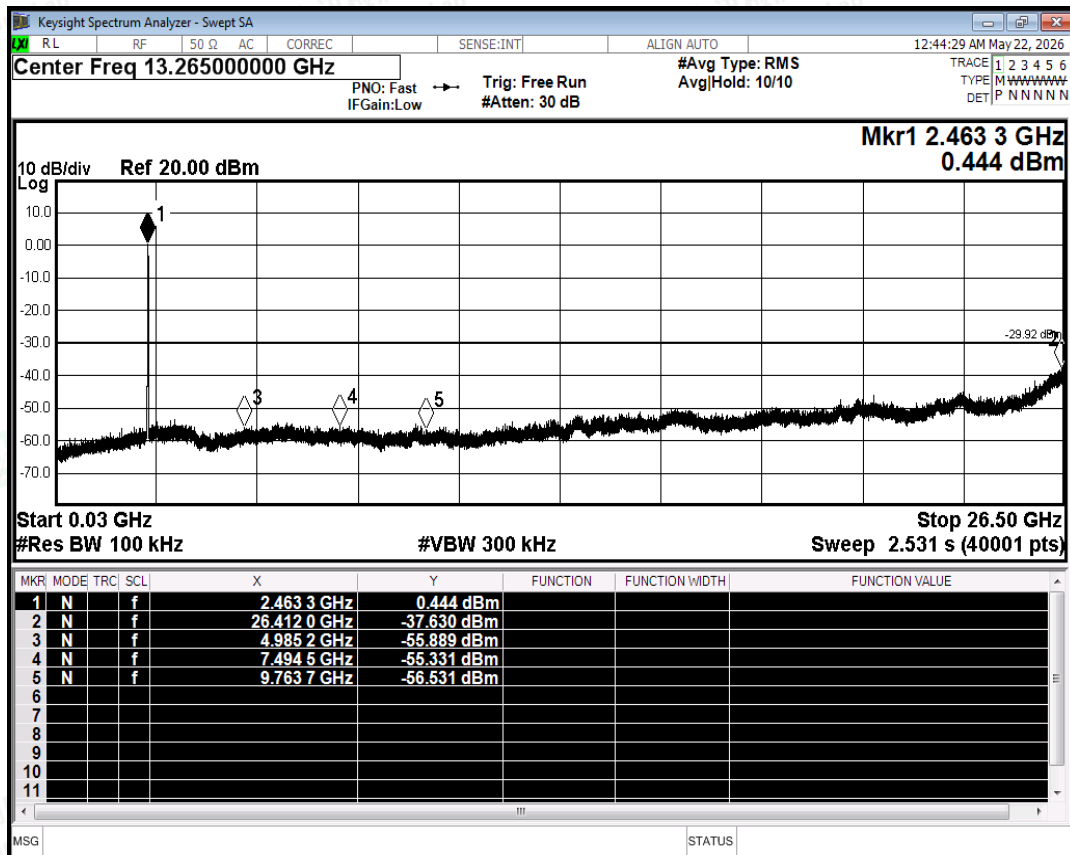
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

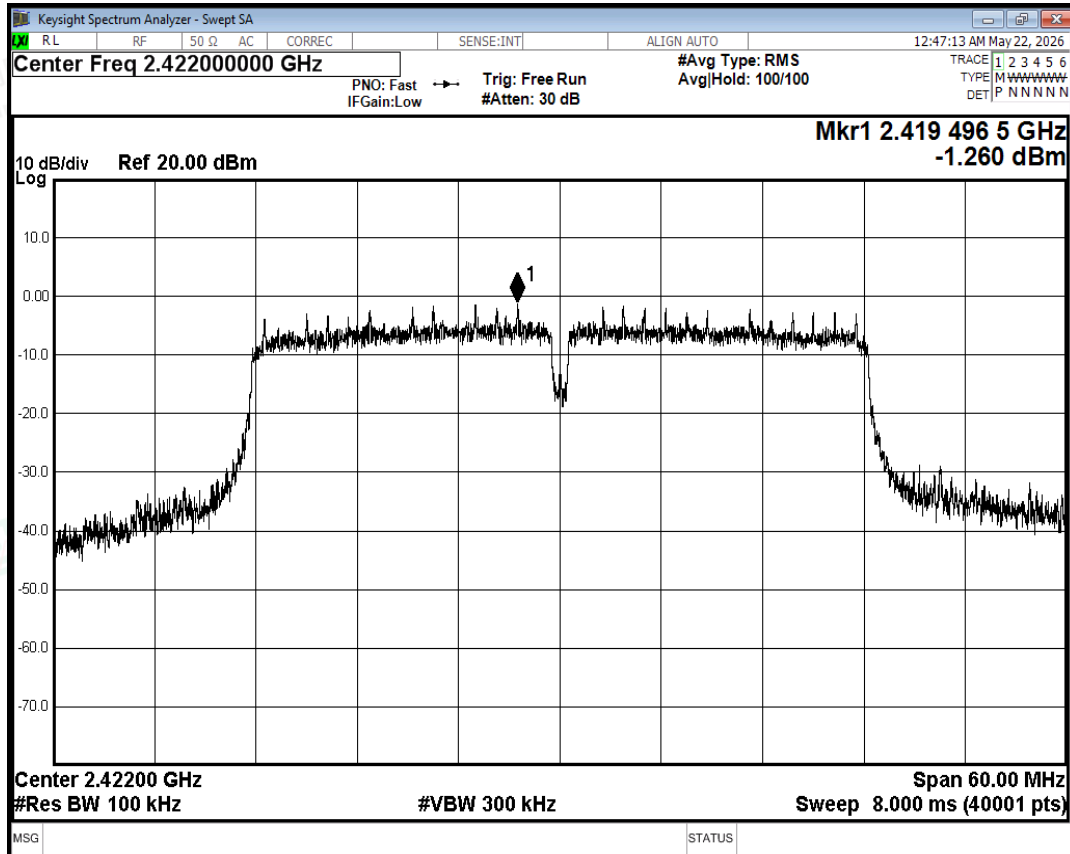


Shenzhen LCS Compliance Testing Laboratory Ltd.

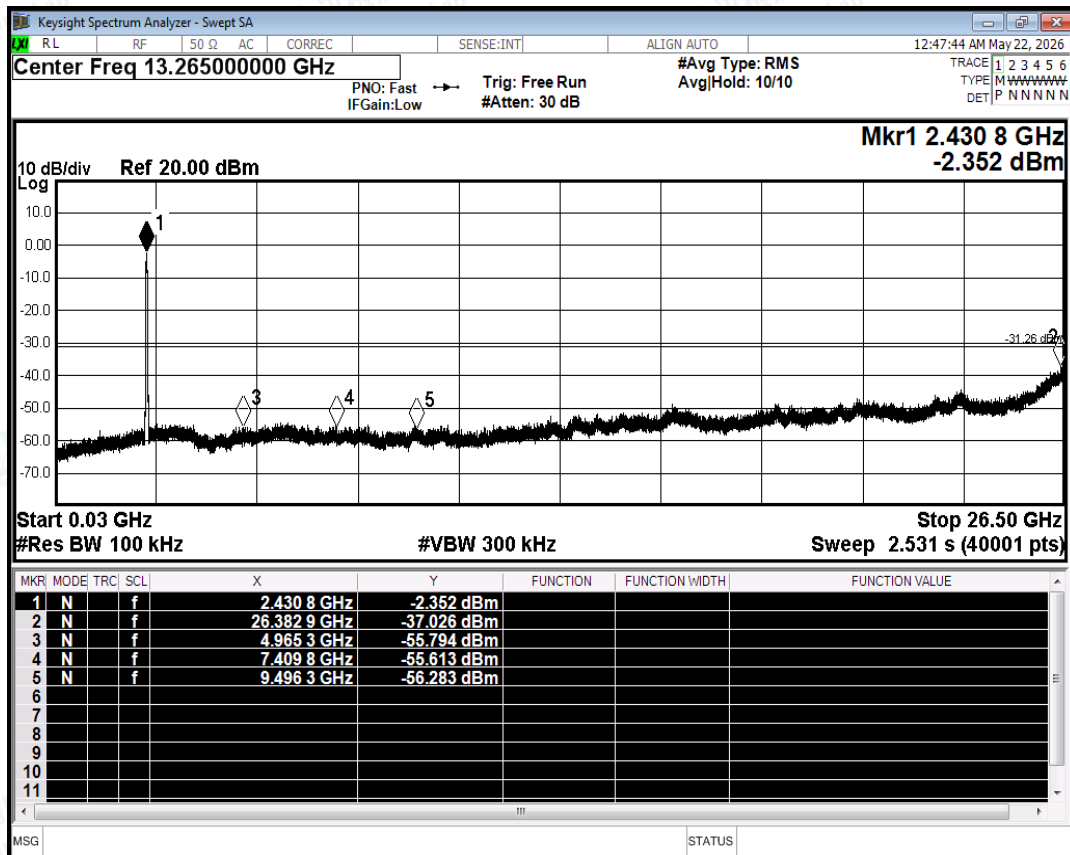
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission

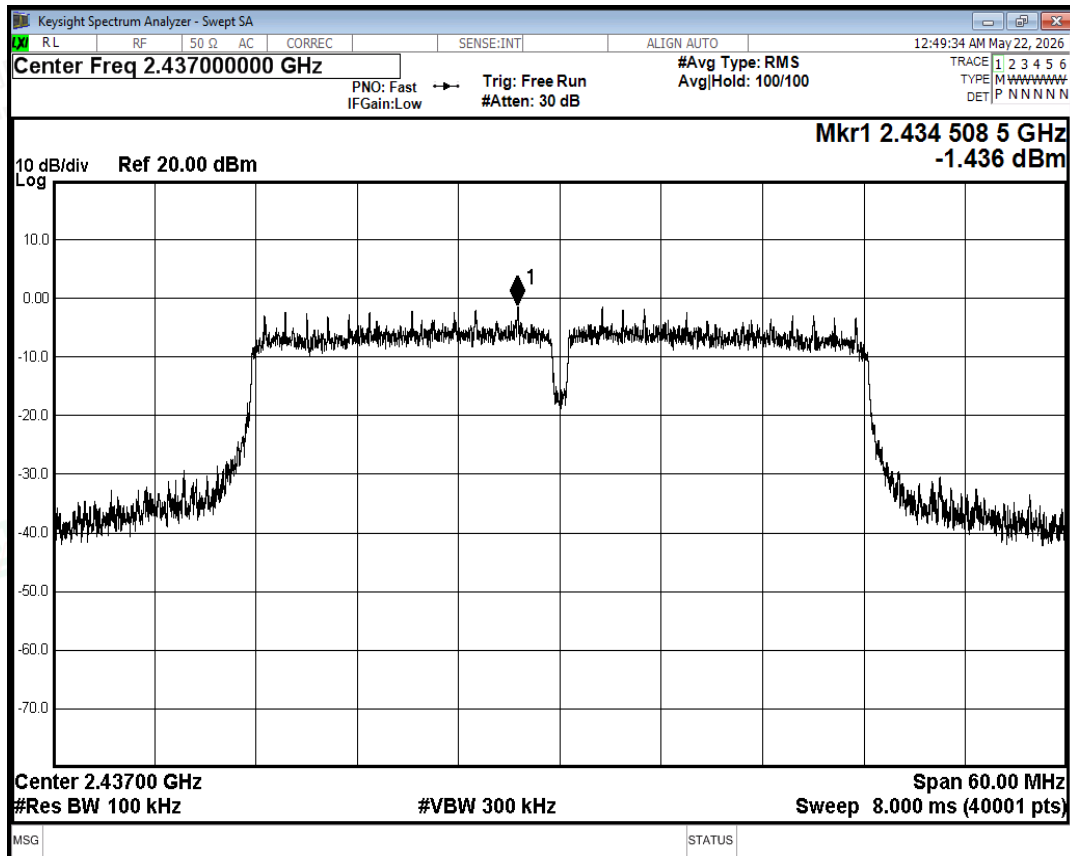


Shenzhen LCS Compliance Testing Laboratory Ltd.

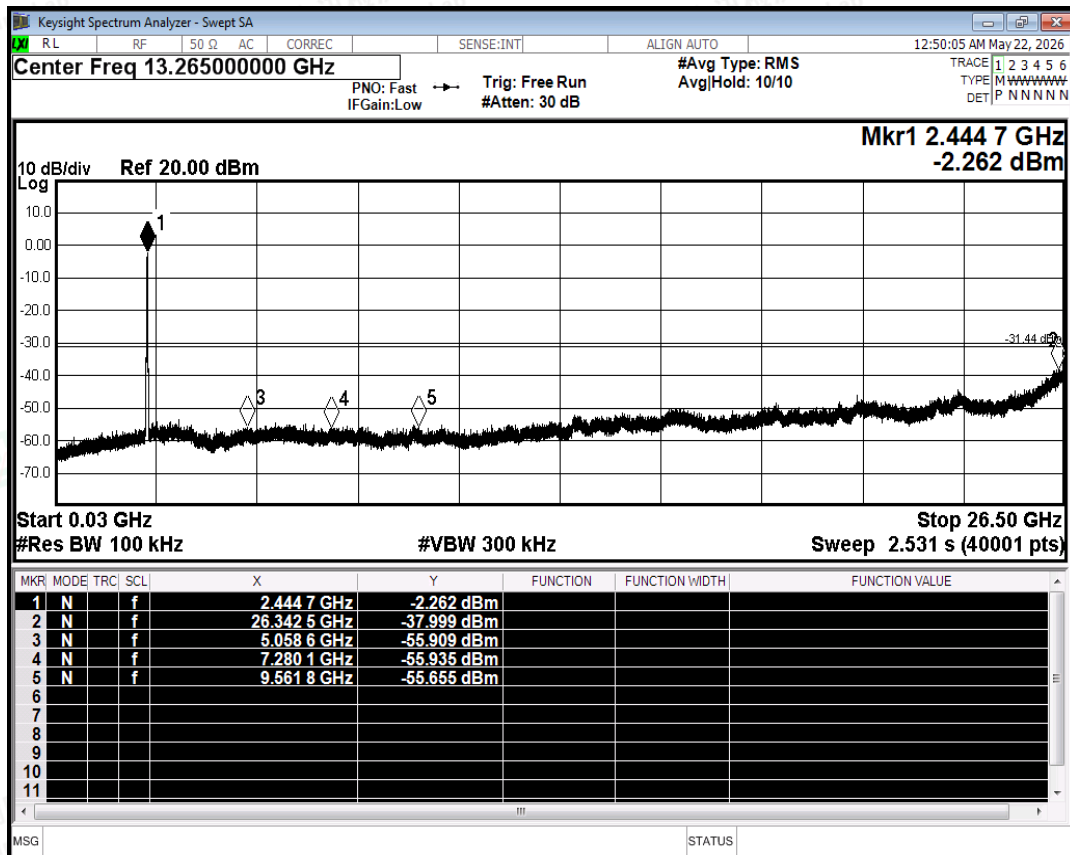
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission

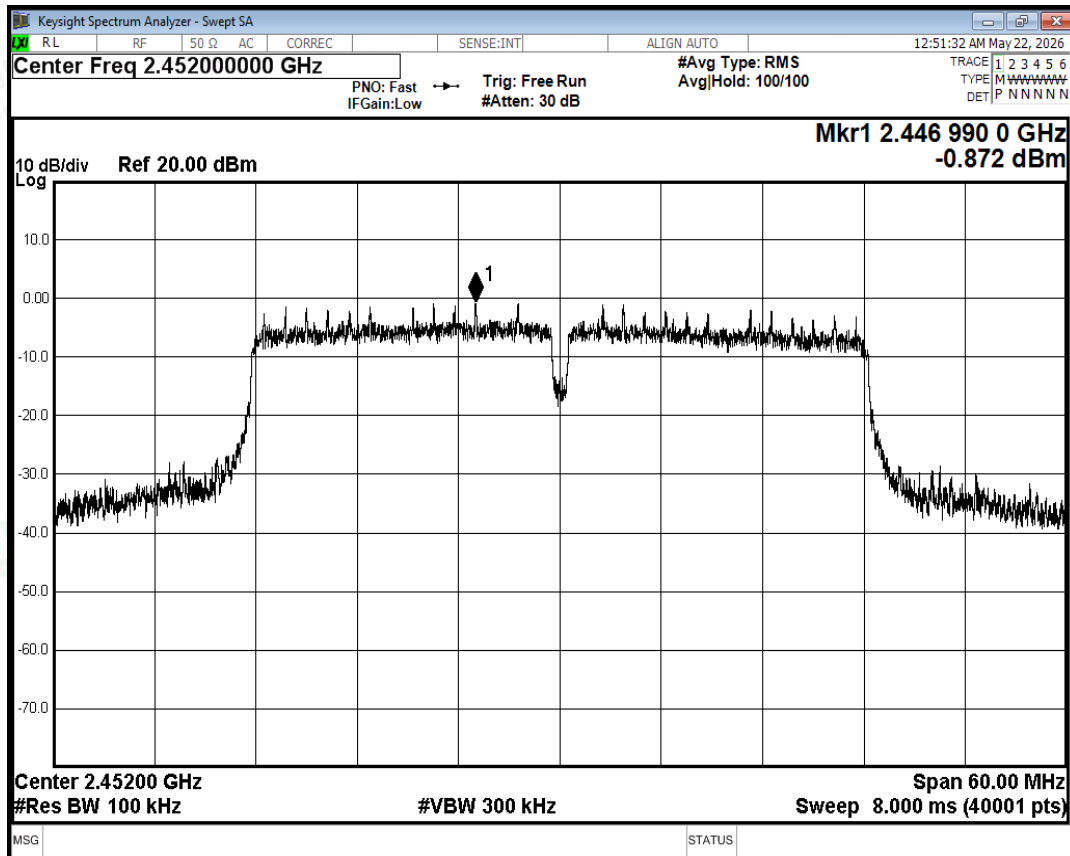


Shenzhen LCS Compliance Testing Laboratory Ltd.

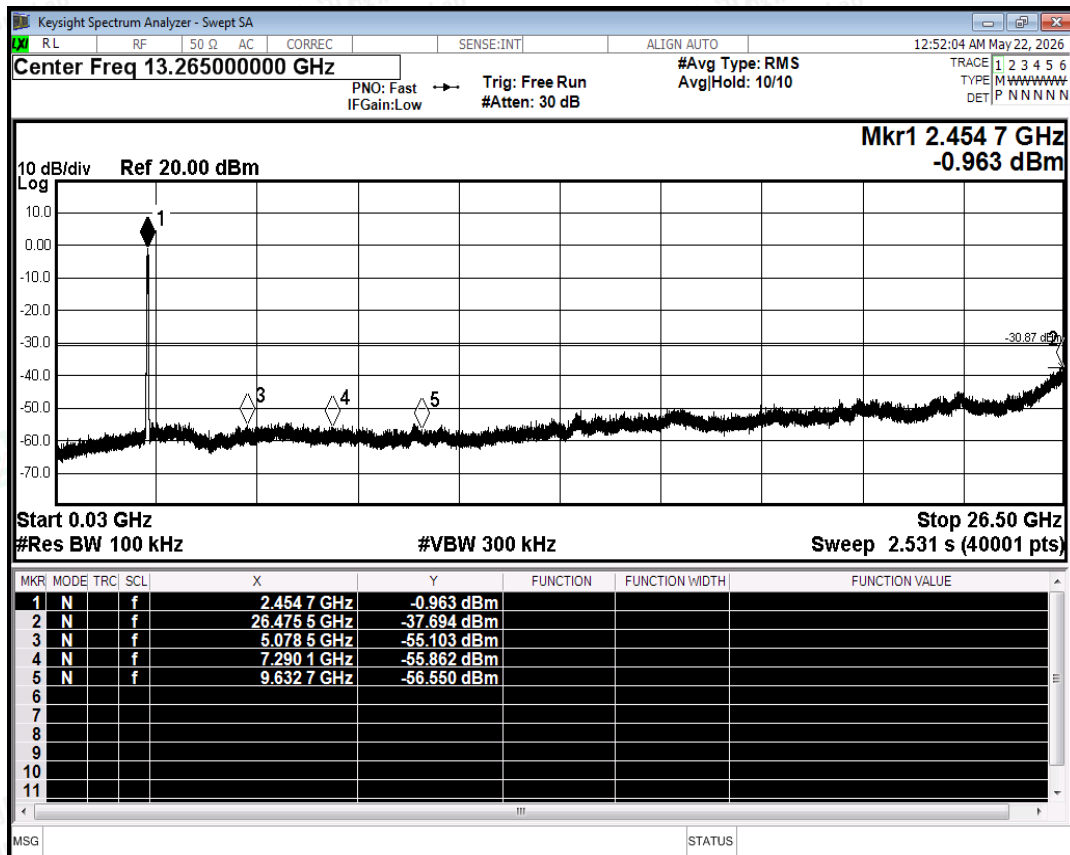
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission

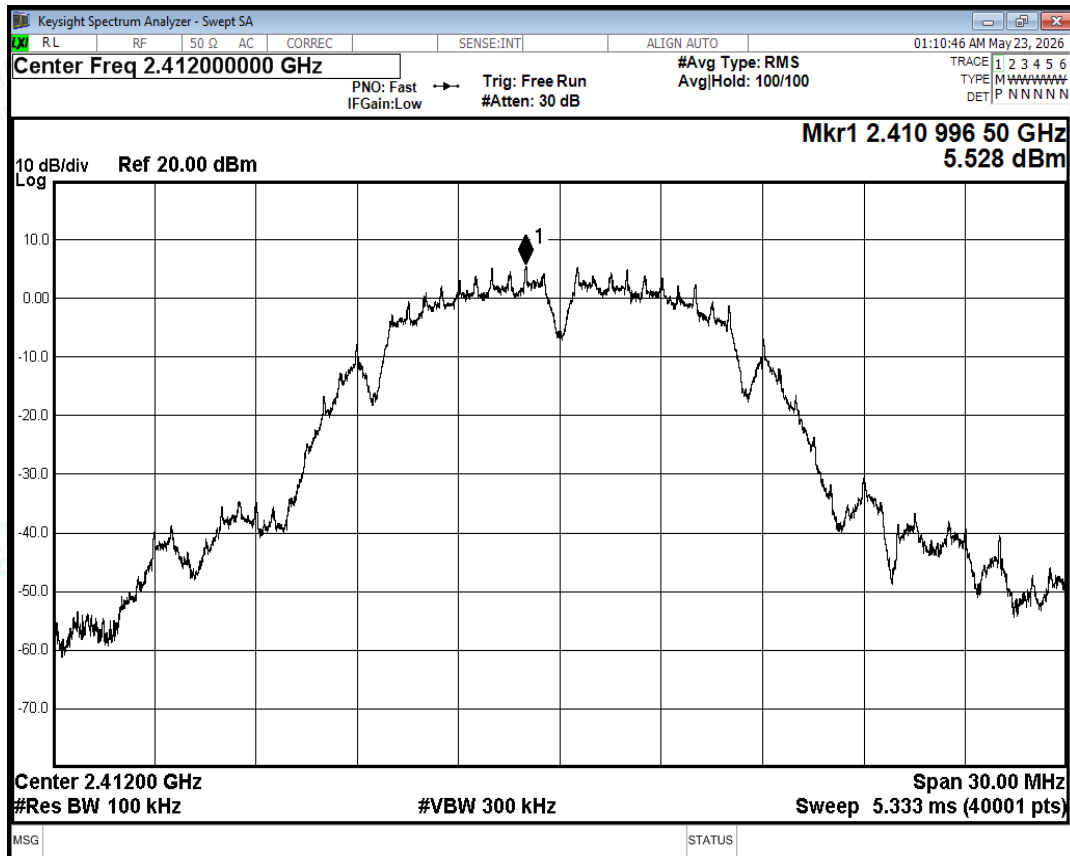




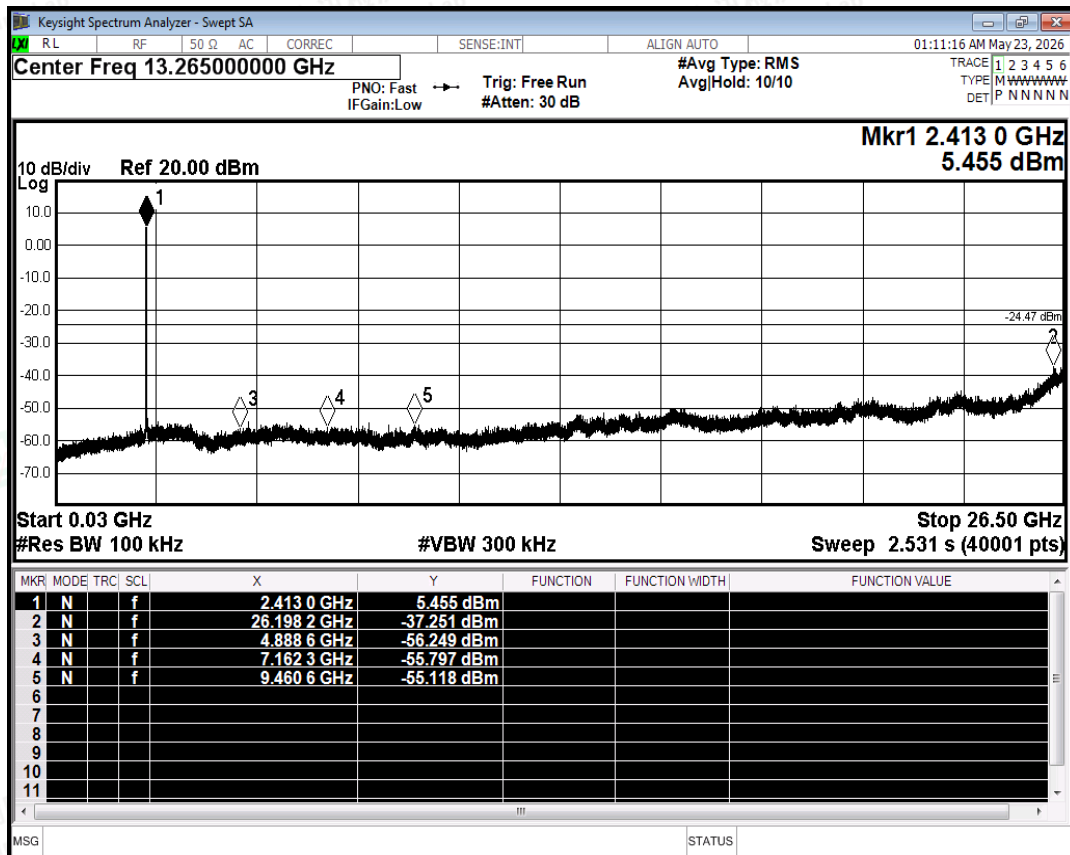
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant2    | -42.78          | -30         | Pass    |
| NVNT      | b    | 2437            | Ant2    | -43.1           | -30         | Pass    |
| NVNT      | b    | 2462            | Ant2    | -42.27          | -30         | Pass    |
| NVNT      | g    | 2412            | Ant2    | -39.8           | -30         | Pass    |
| NVNT      | g    | 2437            | Ant2    | -39.44          | -30         | Pass    |
| NVNT      | g    | 2462            | Ant2    | -38.5           | -30         | Pass    |
| NVNT      | n20  | 2412            | Ant2    | -39.2           | -30         | Pass    |
| NVNT      | n20  | 2437            | Ant2    | -38.16          | -30         | Pass    |
| NVNT      | n20  | 2462            | Ant2    | -38.16          | -30         | Pass    |
| NVNT      | n40  | 2422            | Ant2    | -35.71          | -30         | Pass    |
| NVNT      | n40  | 2437            | Ant2    | -34.9           | -30         | Pass    |
| NVNT      | n40  | 2452            | Ant2    | -34.89          | -30         | Pass    |

Note :Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.





Tx. Spurious NVNT b 2412MHz Ant2 Ref



Tx. Spurious NVNT b 2412MHz Ant2 Emission

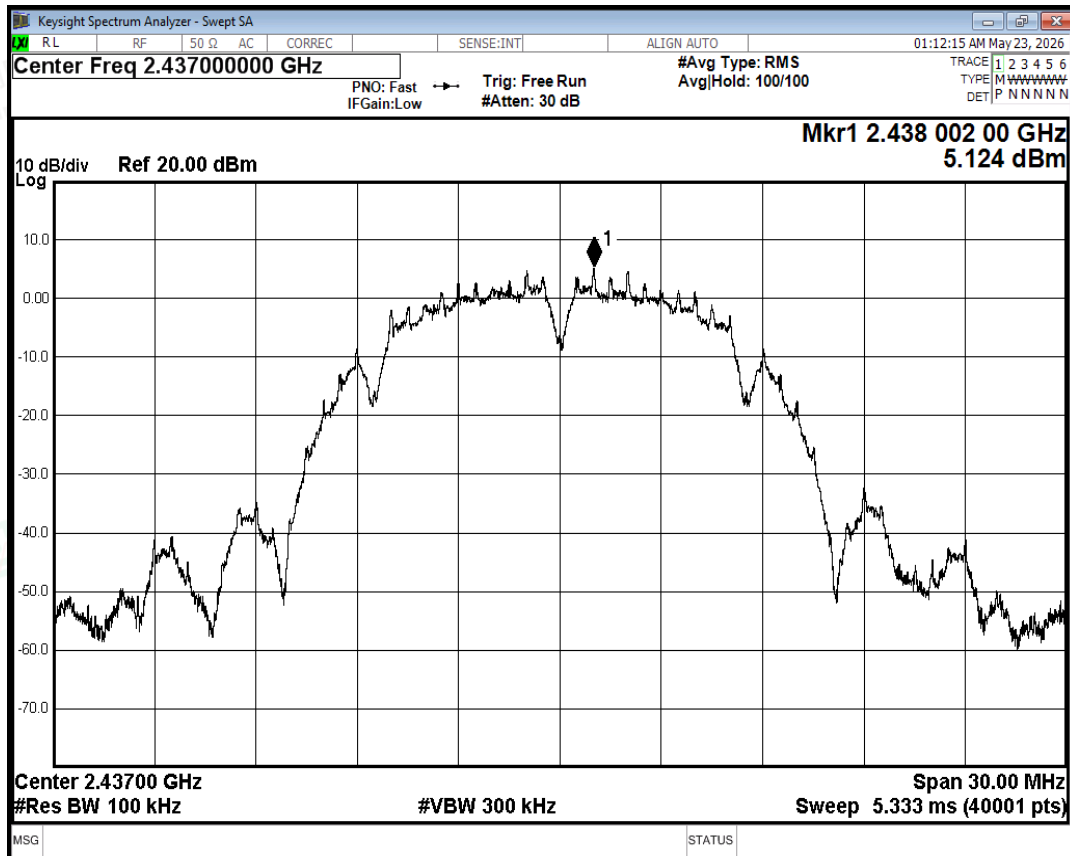


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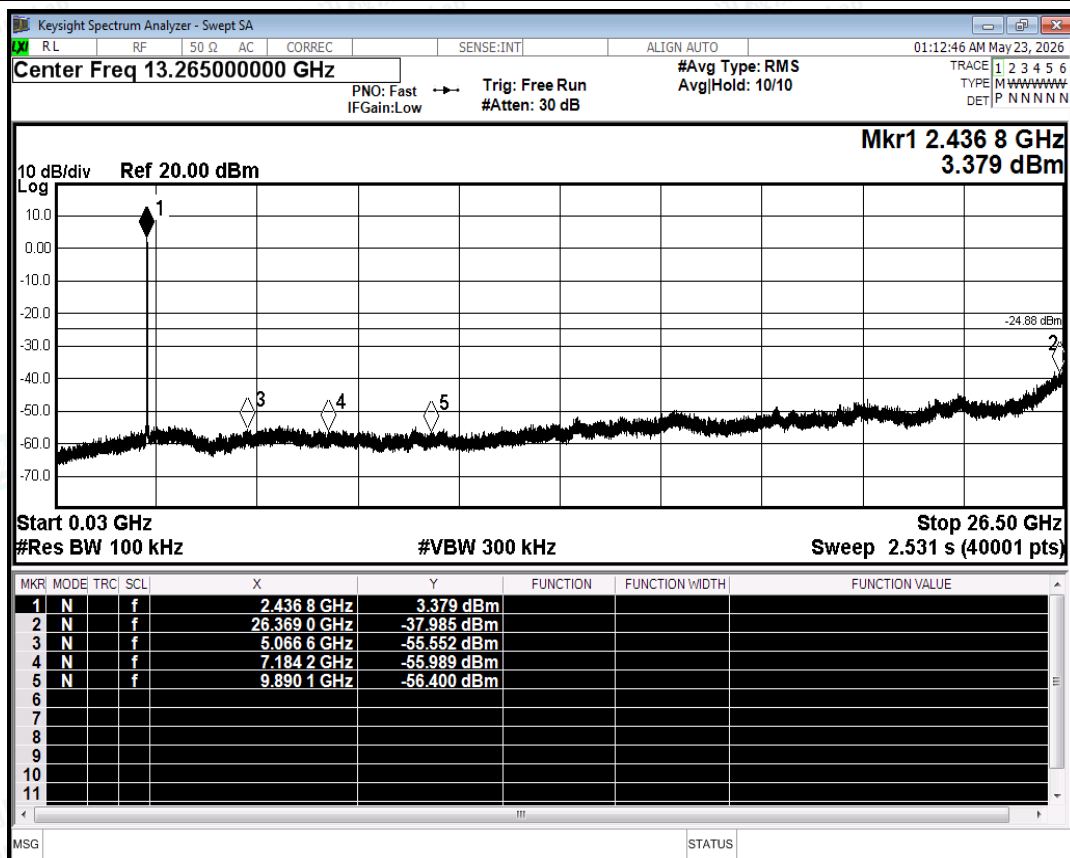
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2437MHz Ant2 Ref



Tx. Spurious NVNT b 2437MHz Ant2 Emission

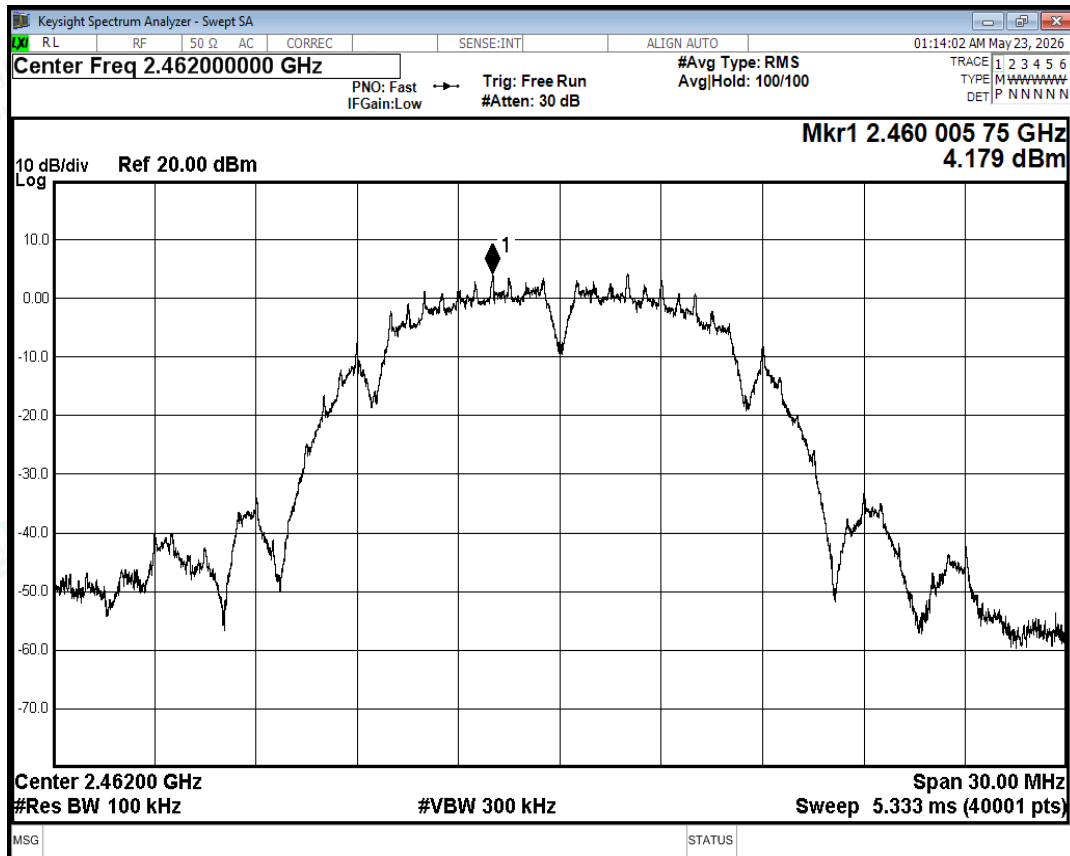


Shenzhen LCS Compliance Testing Laboratory Ltd.

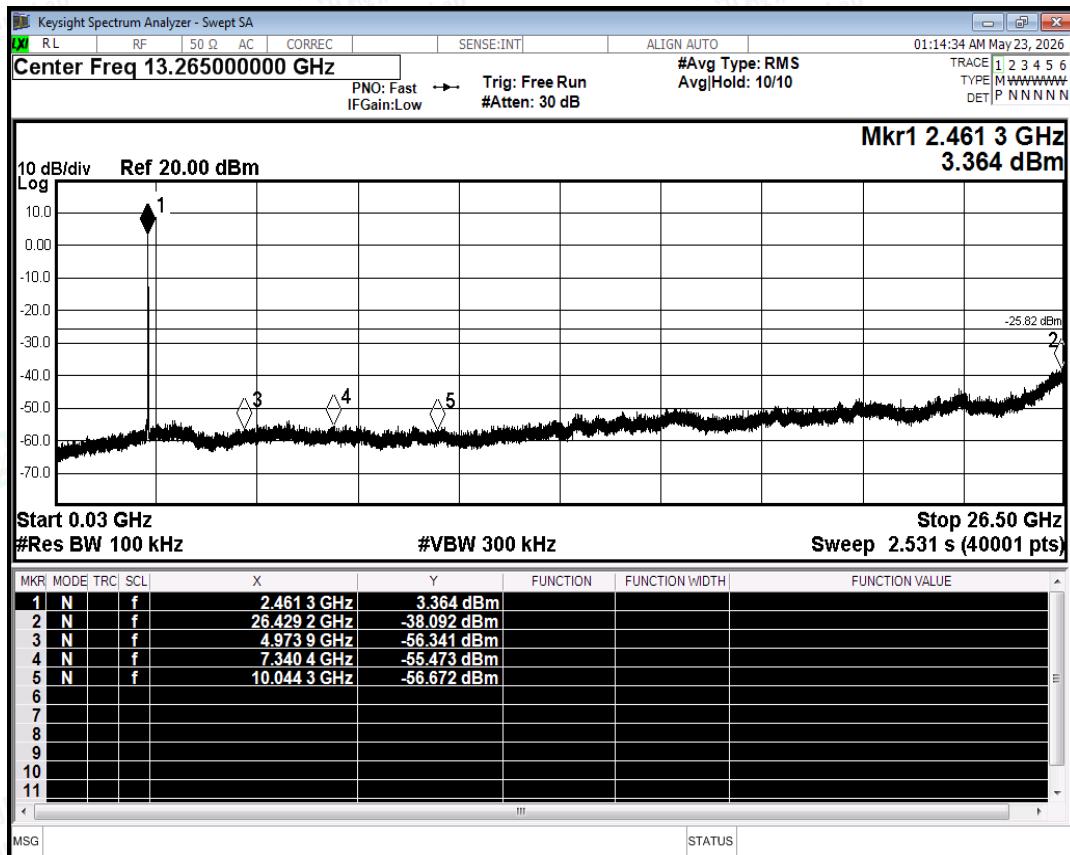
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2462MHz Ant2 Ref



Tx. Spurious NVNT b 2462MHz Ant2 Emission

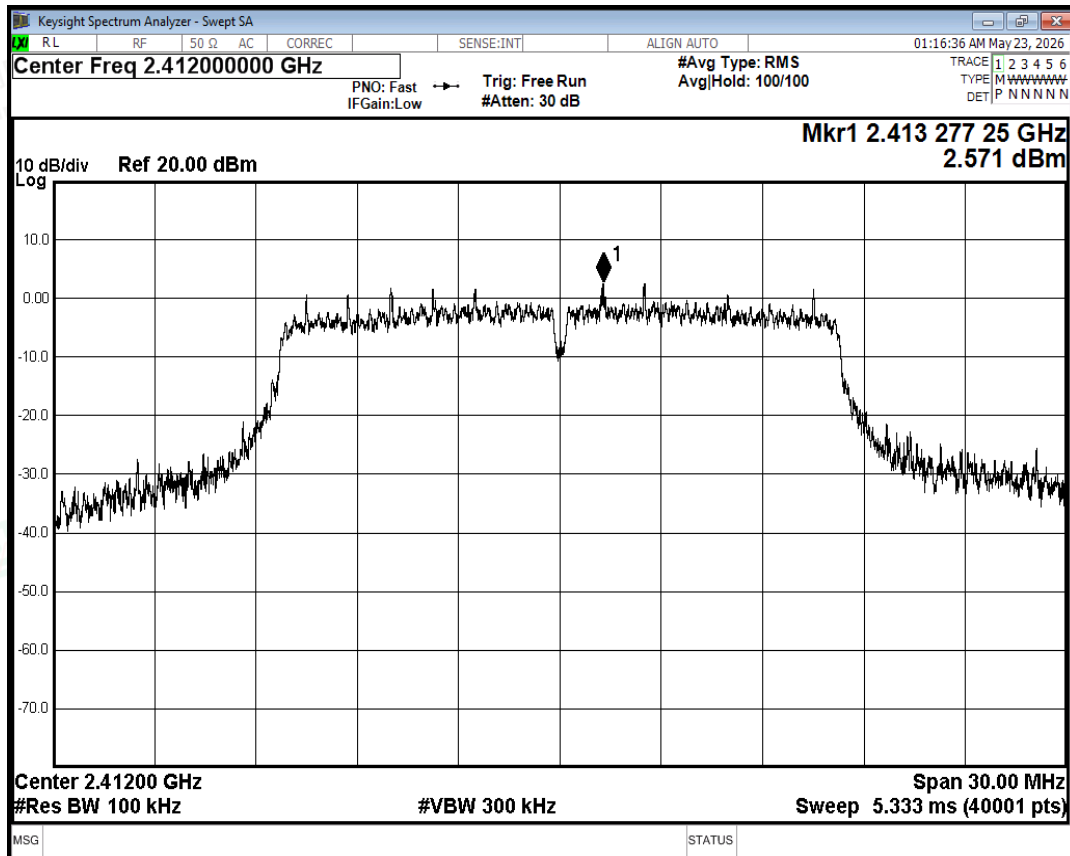


Shenzhen LCS Compliance Testing Laboratory Ltd.

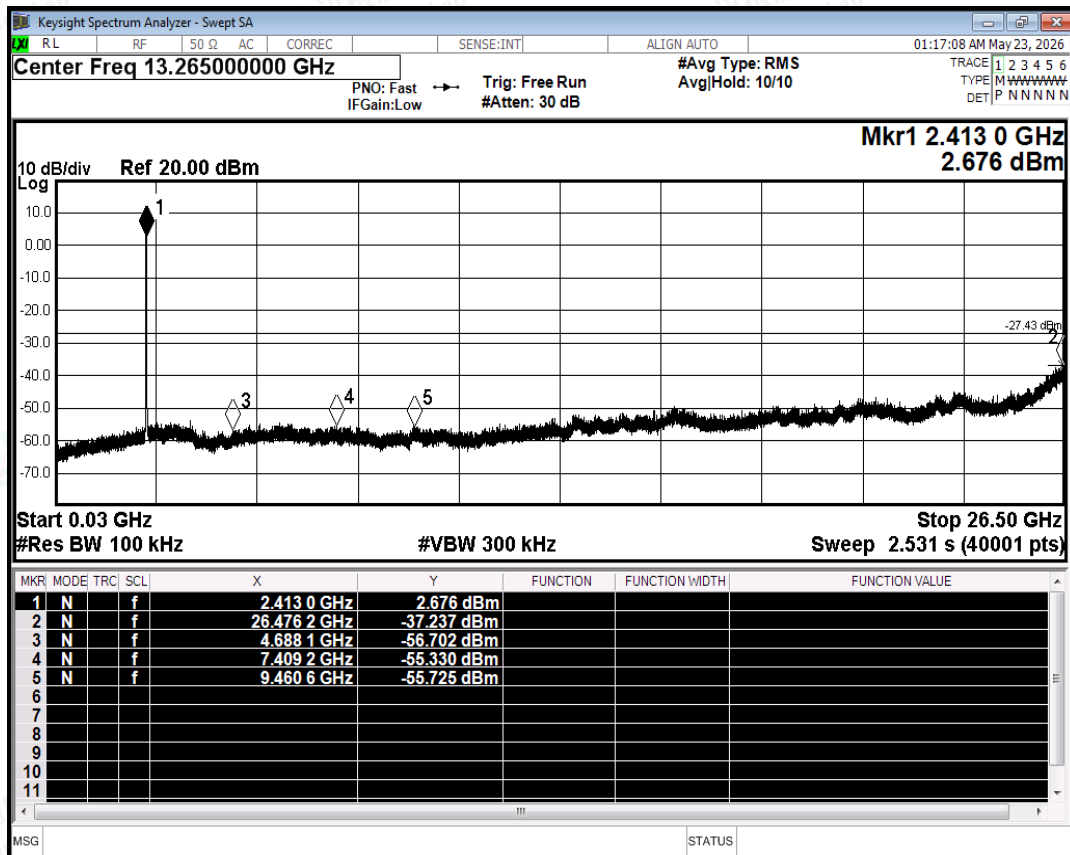
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2412MHz Ant2 Ref



Tx. Spurious NVNT g 2412MHz Ant2 Emission

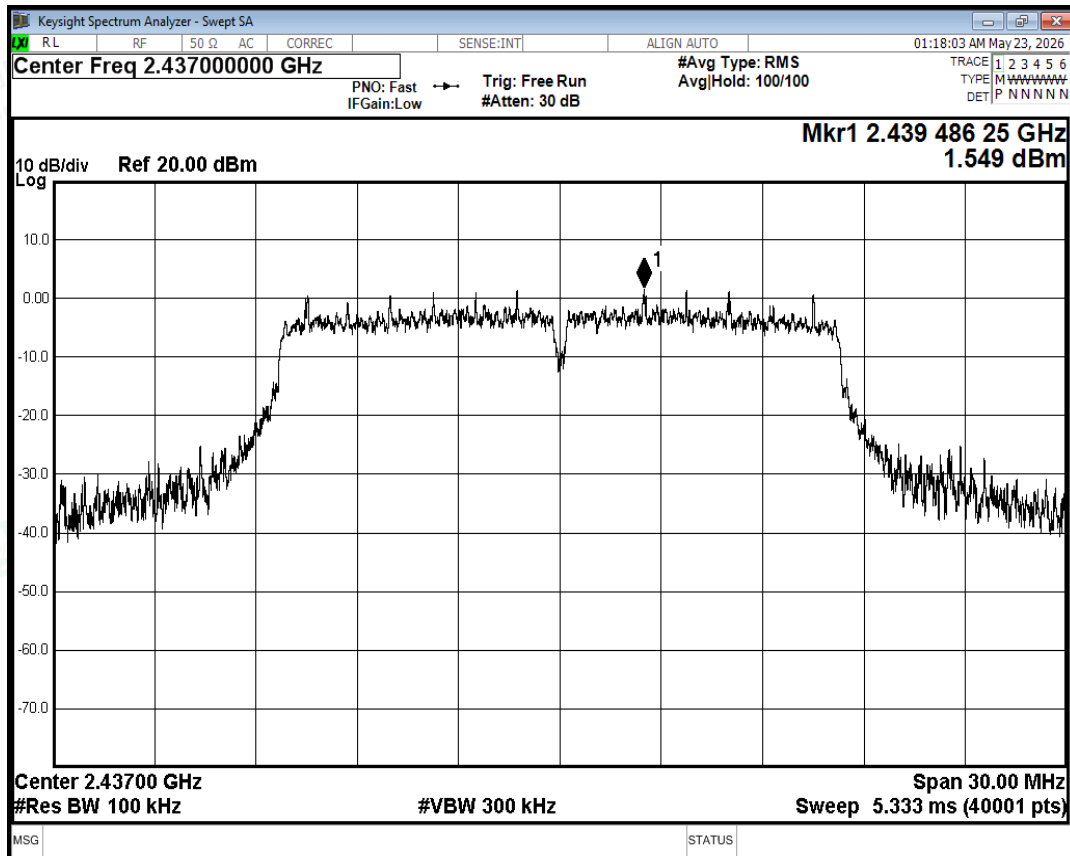


Shenzhen LCS Compliance Testing Laboratory Ltd.

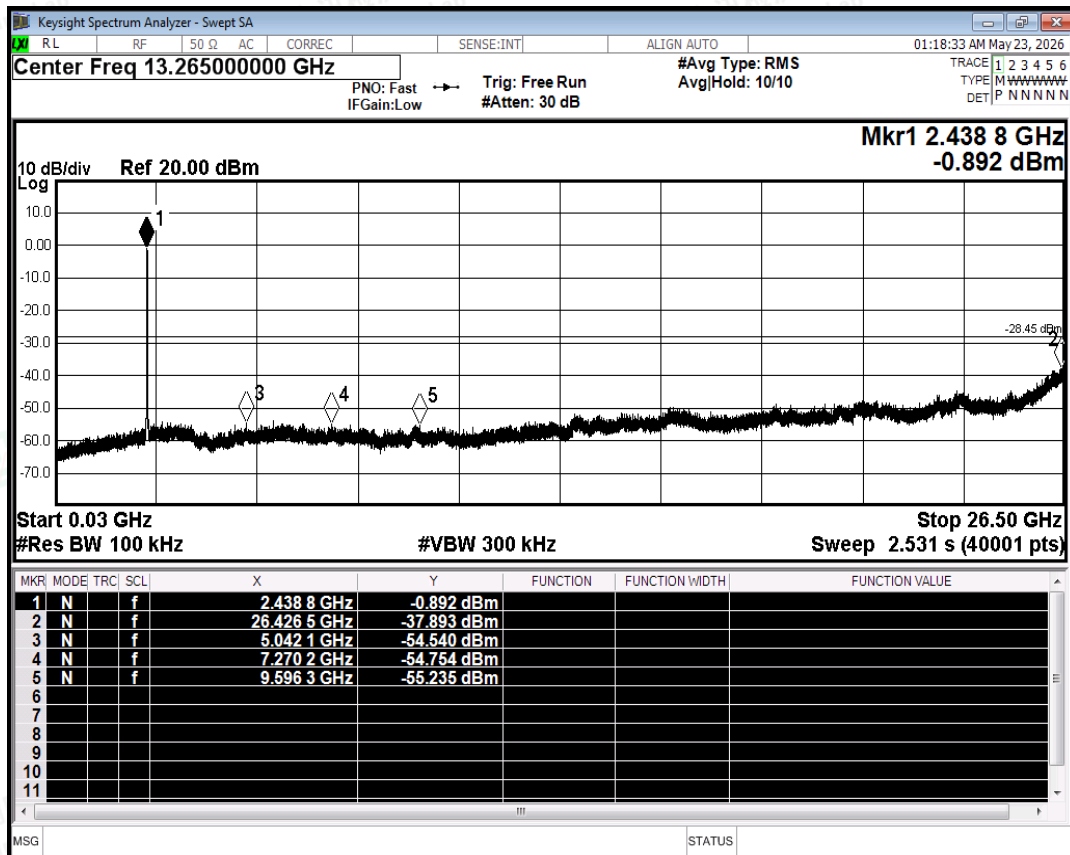
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Tx. Spurious NVNT g 2437MHz Ant2 Ref



Tx. Spurious NVNT g 2437MHz Ant2 Emission

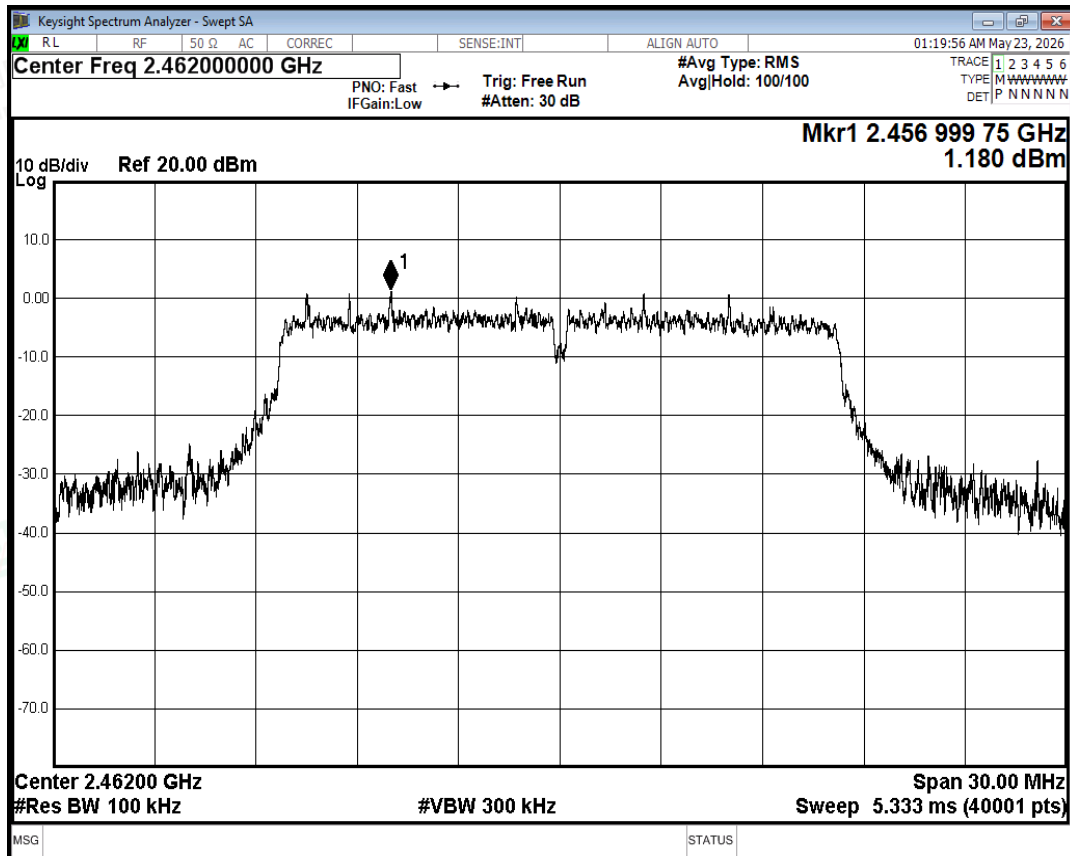


Shenzhen LCS Compliance Testing Laboratory Ltd.

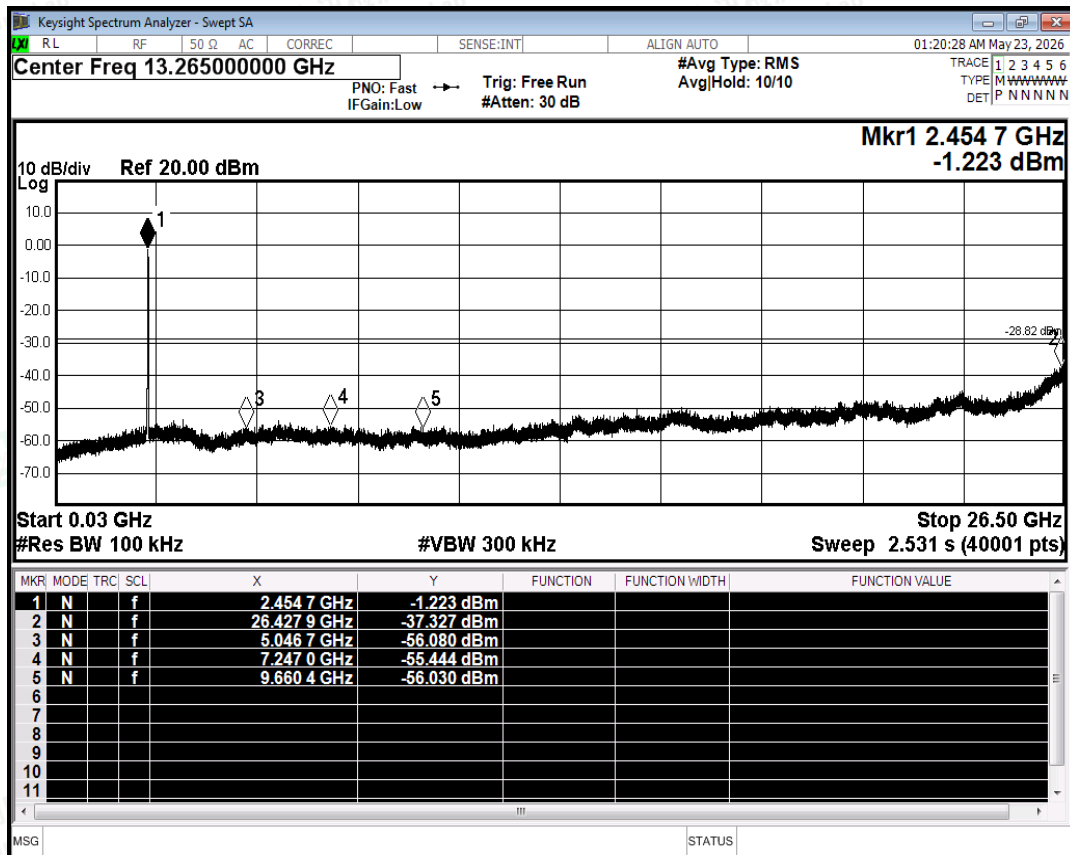
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2462MHz Ant2 Ref



Tx. Spurious NVNT g 2462MHz Ant2 Emission

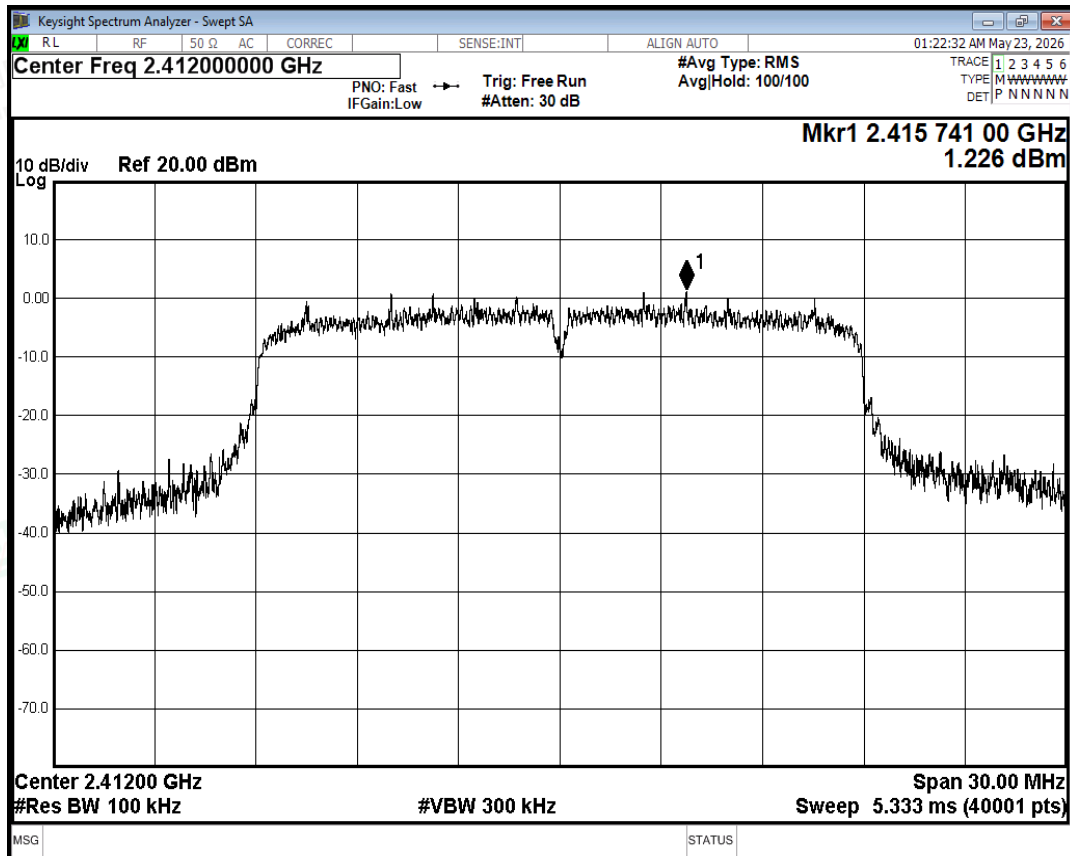


Shenzhen LCS Compliance Testing Laboratory Ltd.

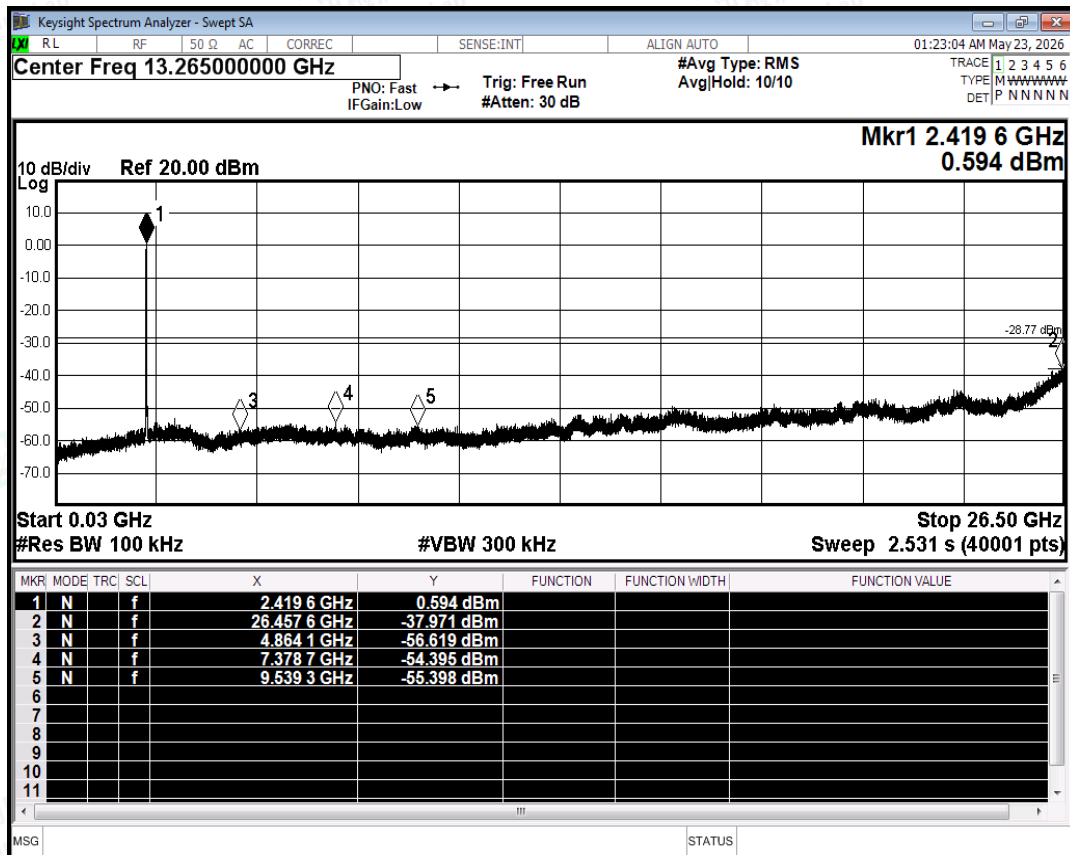
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2412MHz Ant2 Ref



Tx. Spurious NVNT n20 2412MHz Ant2 Emission

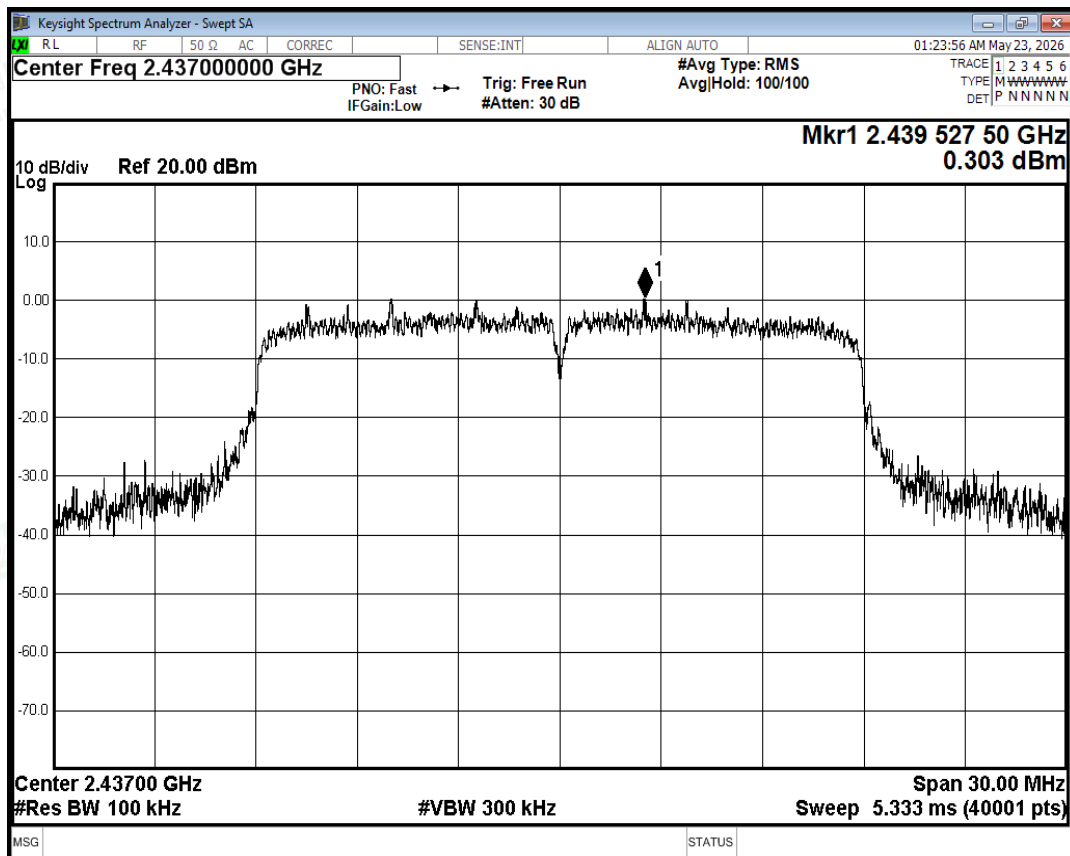


Shenzhen LCS Compliance Testing Laboratory Ltd.

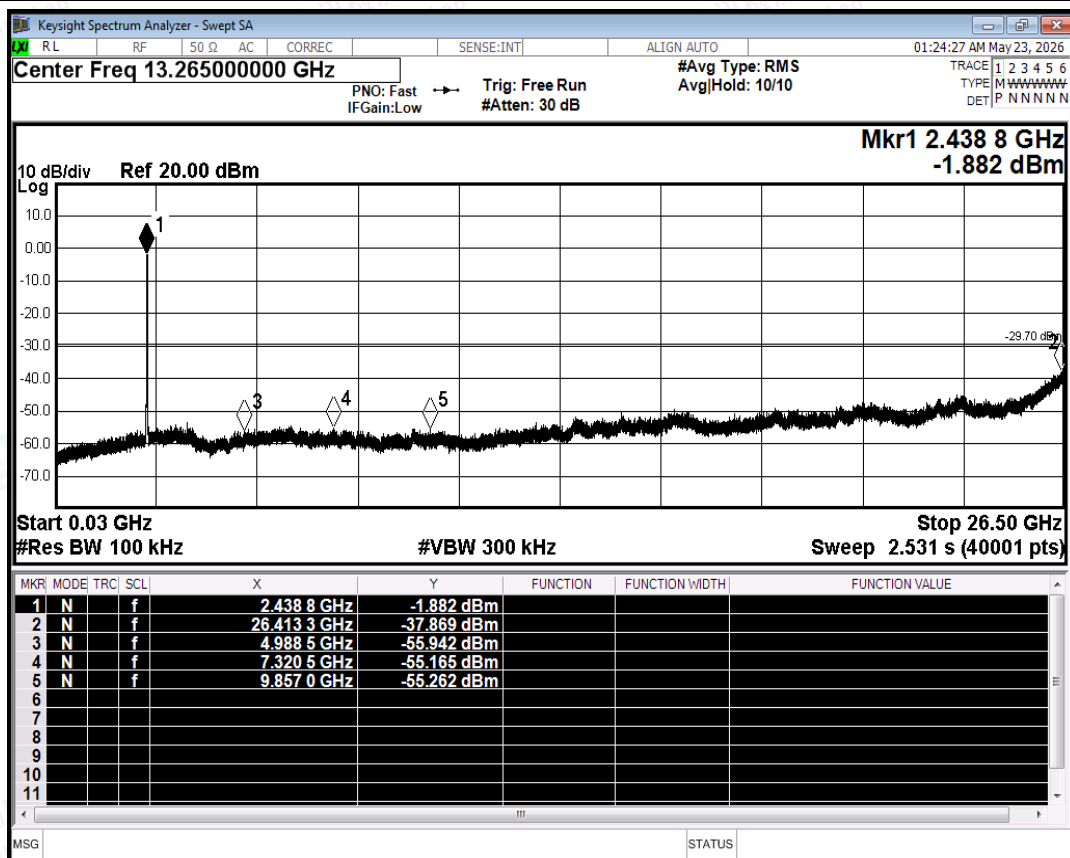
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Tx. Spurious NVNT n20 2437MHz Ant2 Emission

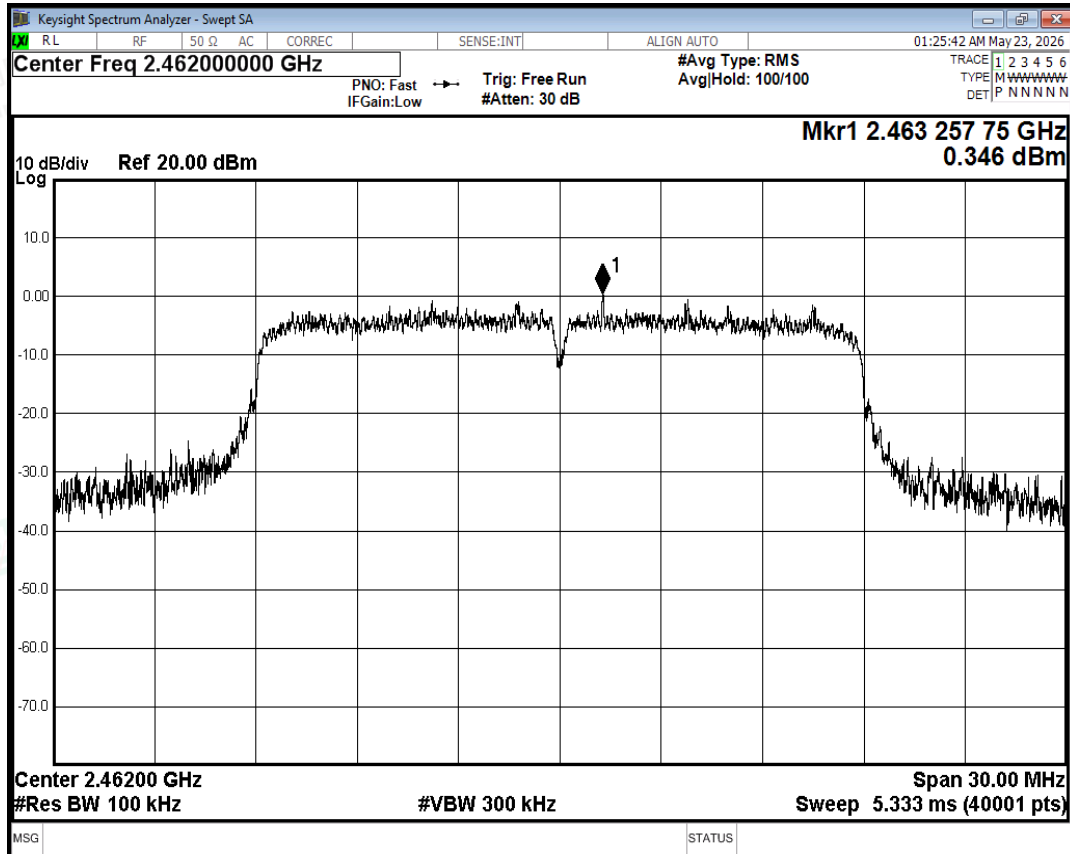


Shenzhen LCS Compliance Testing Laboratory Ltd.

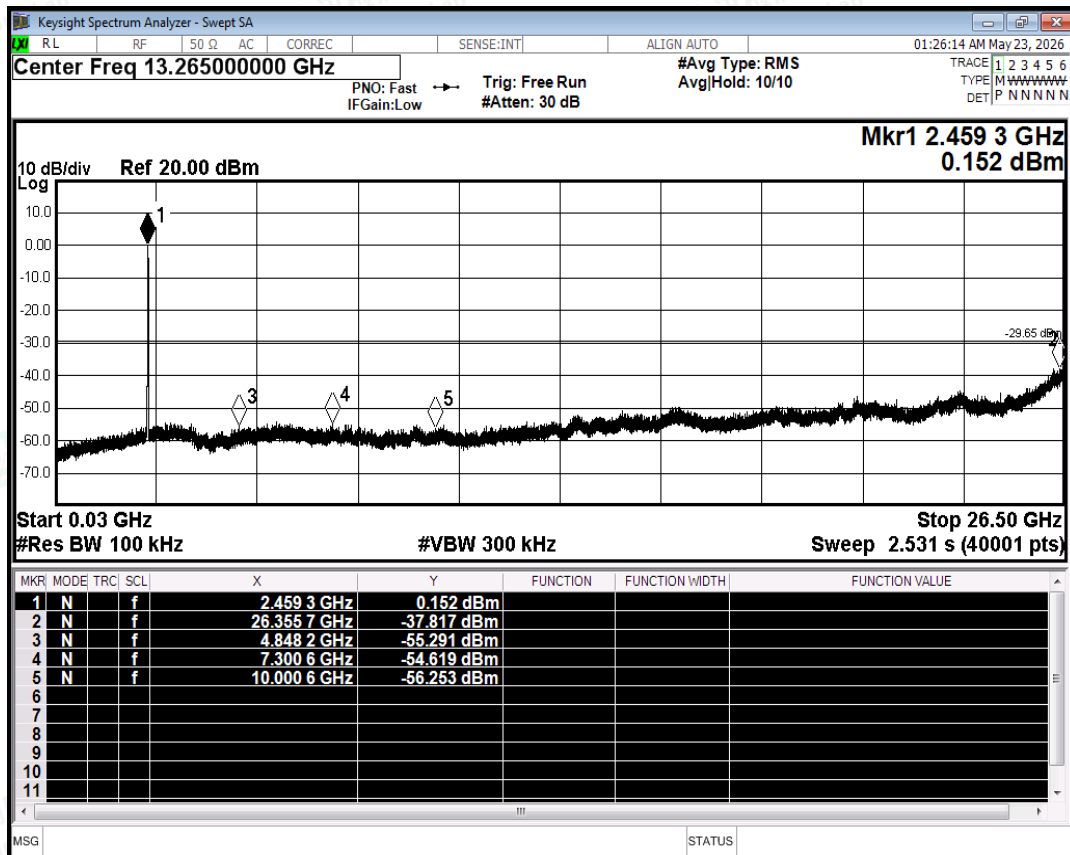
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2462MHz Ant2 Ref



Tx. Spurious NVNT n20 2462MHz Ant2 Emission

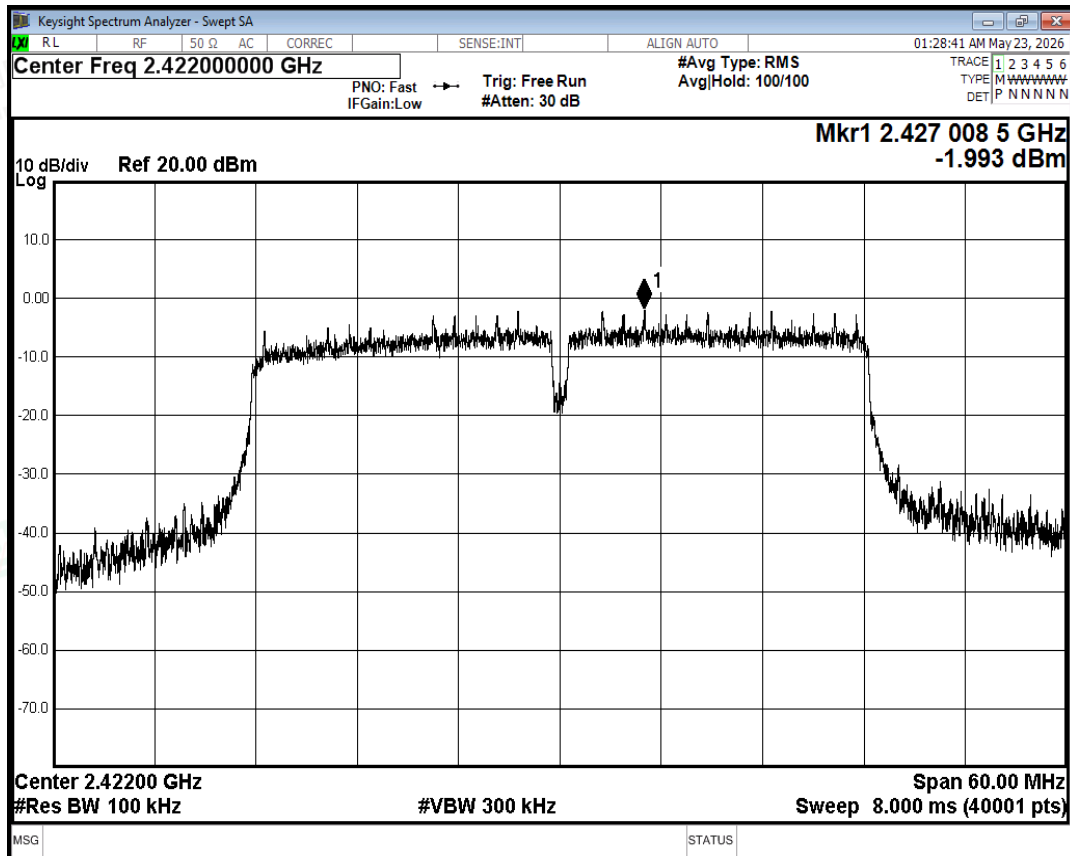


Shenzhen LCS Compliance Testing Laboratory Ltd.

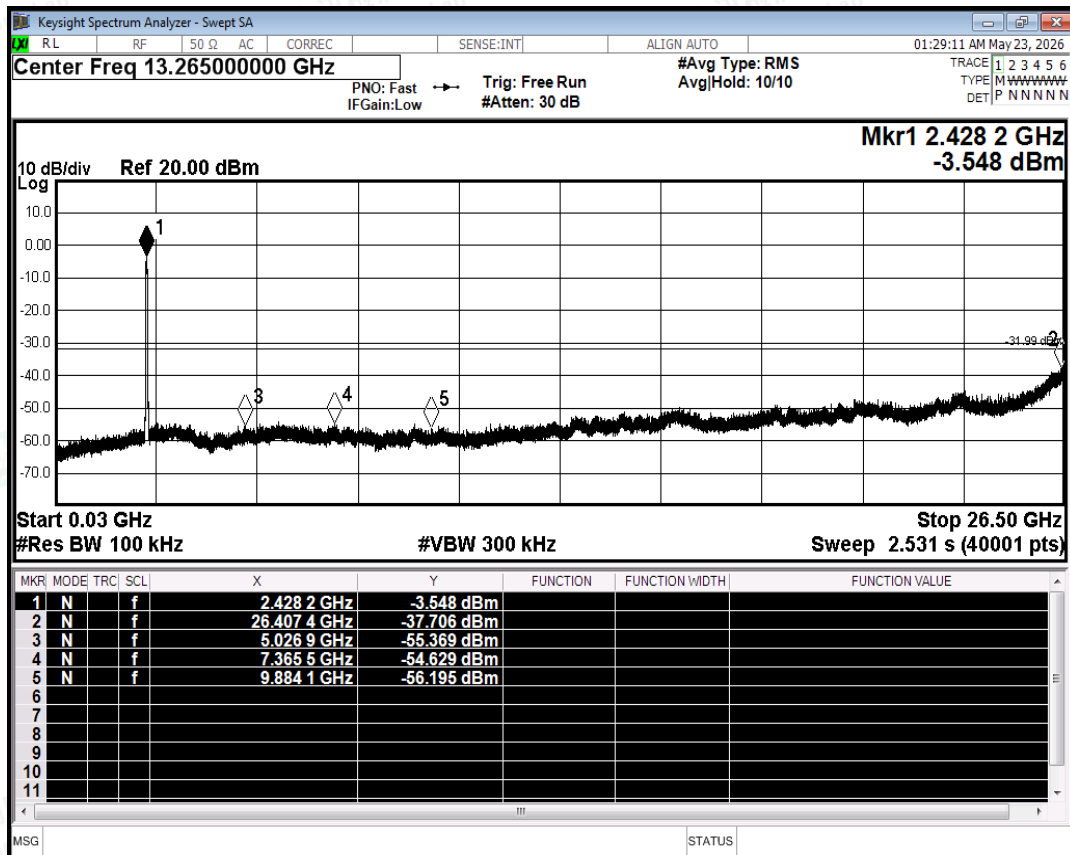
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Tx. Spurious NVNT n40 2422MHz Ant2 Ref



Tx. Spurious NVNT n40 2422MHz Ant2 Emission

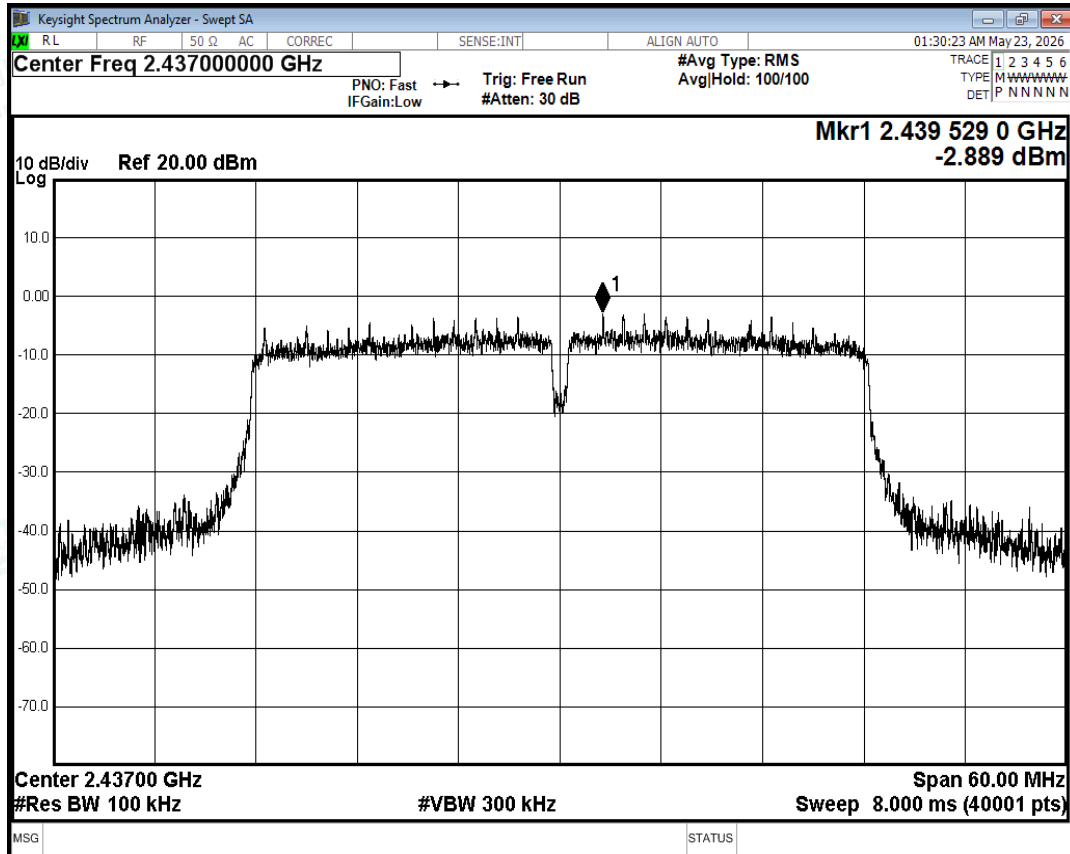


Shenzhen LCS Compliance Testing Laboratory Ltd.

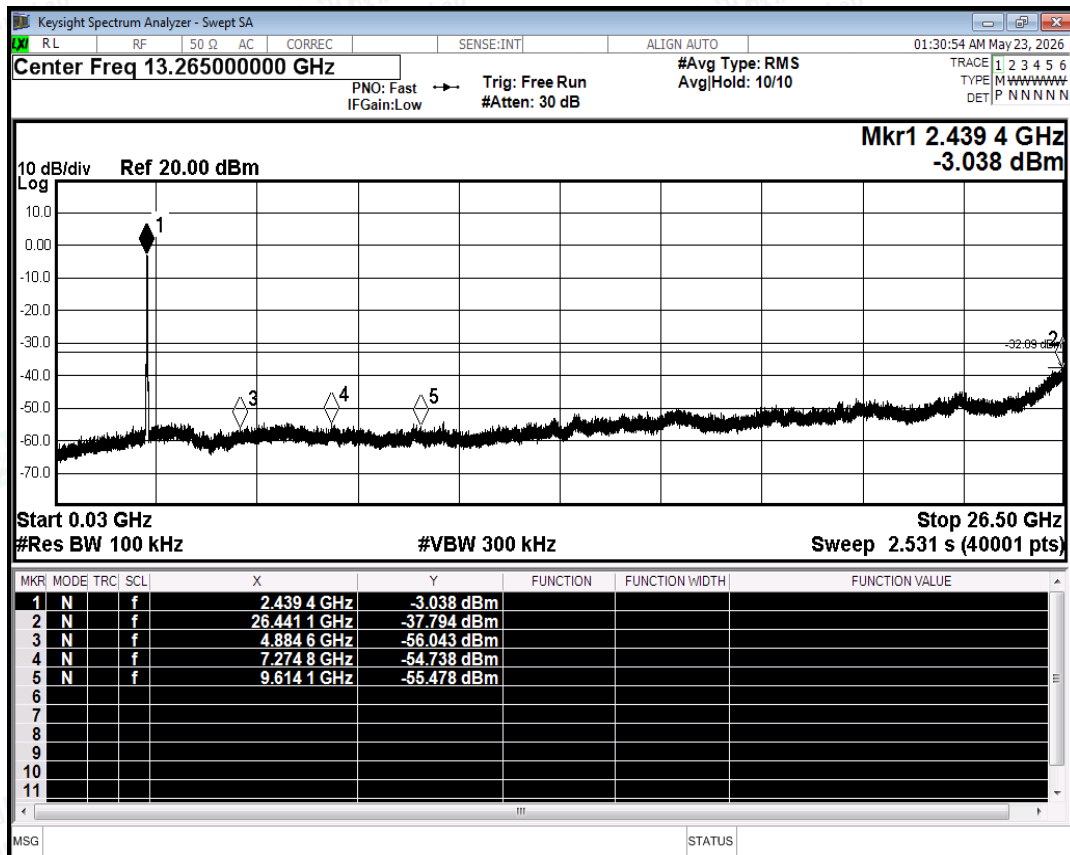
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2437MHz Ant2 Ref



Tx. Spurious NVNT n40 2437MHz Ant2 Emission

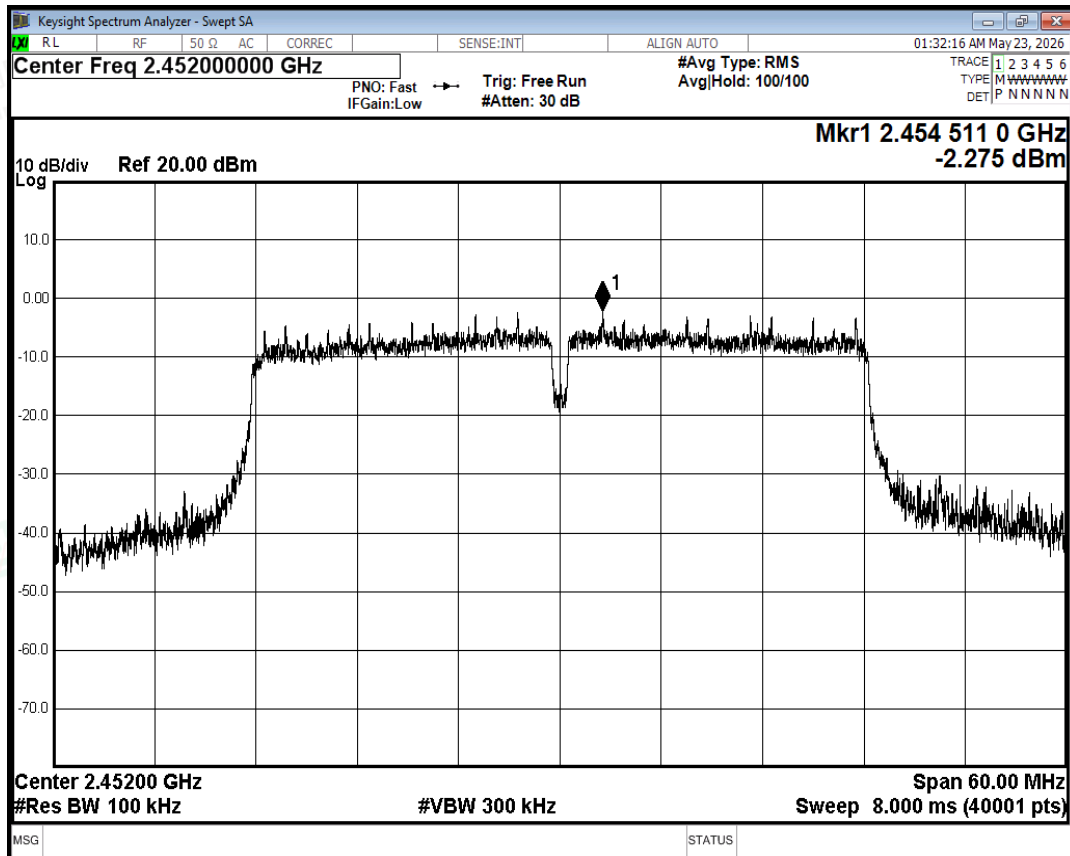


Shenzhen LCS Compliance Testing Laboratory Ltd.

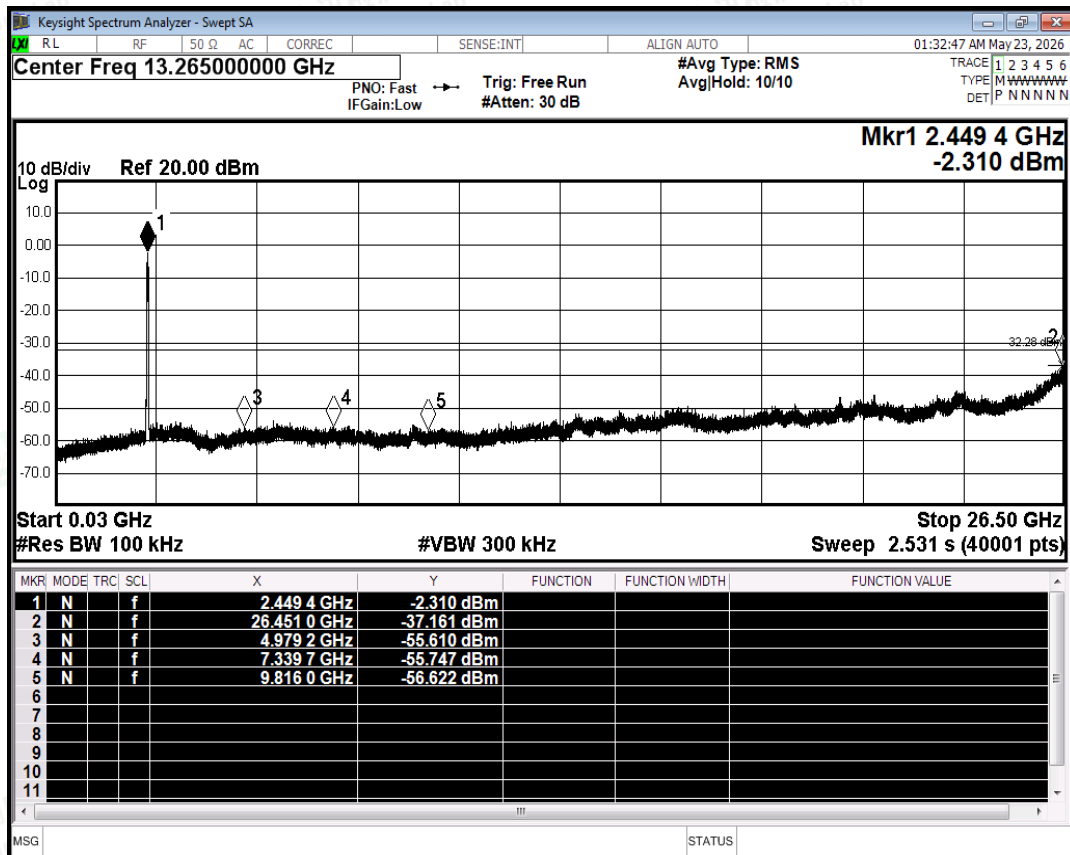
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2452MHz Ant2 Ref



Tx. Spurious NVNT n40 2452MHz Ant2 Emission



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## C.6 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 99.3           | 0.03                   | 0.12      |
| NVNT      | b    | 2437            | Ant1    | 99.3           | 0.03                   | 0.12      |
| NVNT      | b    | 2462            | Ant1    | 99.3           | 0.03                   | 0.12      |
| NVNT      | g    | 2412            | Ant1    | 95.75          | 0.19                   | 0.72      |
| NVNT      | g    | 2437            | Ant1    | 95.75          | 0.19                   | 0.72      |
| NVNT      | g    | 2462            | Ant1    | 95.62          | 0.19                   | 0.72      |
| NVNT      | n20  | 2412            | Ant1    | 95.02          | 0.22                   | 0.85      |
| NVNT      | n20  | 2437            | Ant1    | 95.02          | 0.22                   | 0.85      |
| NVNT      | n20  | 2462            | Ant1    | 94.86          | 0.23                   | 0.85      |
| NVNT      | n40  | 2422            | Ant1    | 90.74          | 0.42                   | 1.7       |
| NVNT      | n40  | 2437            | Ant1    | 90.46          | 0.44                   | 1.7       |
| NVNT      | n40  | 2452            | Ant1    | 90.43          | 0.44                   | 1.71      |

Note :offset=System attenuation +cabal loss

