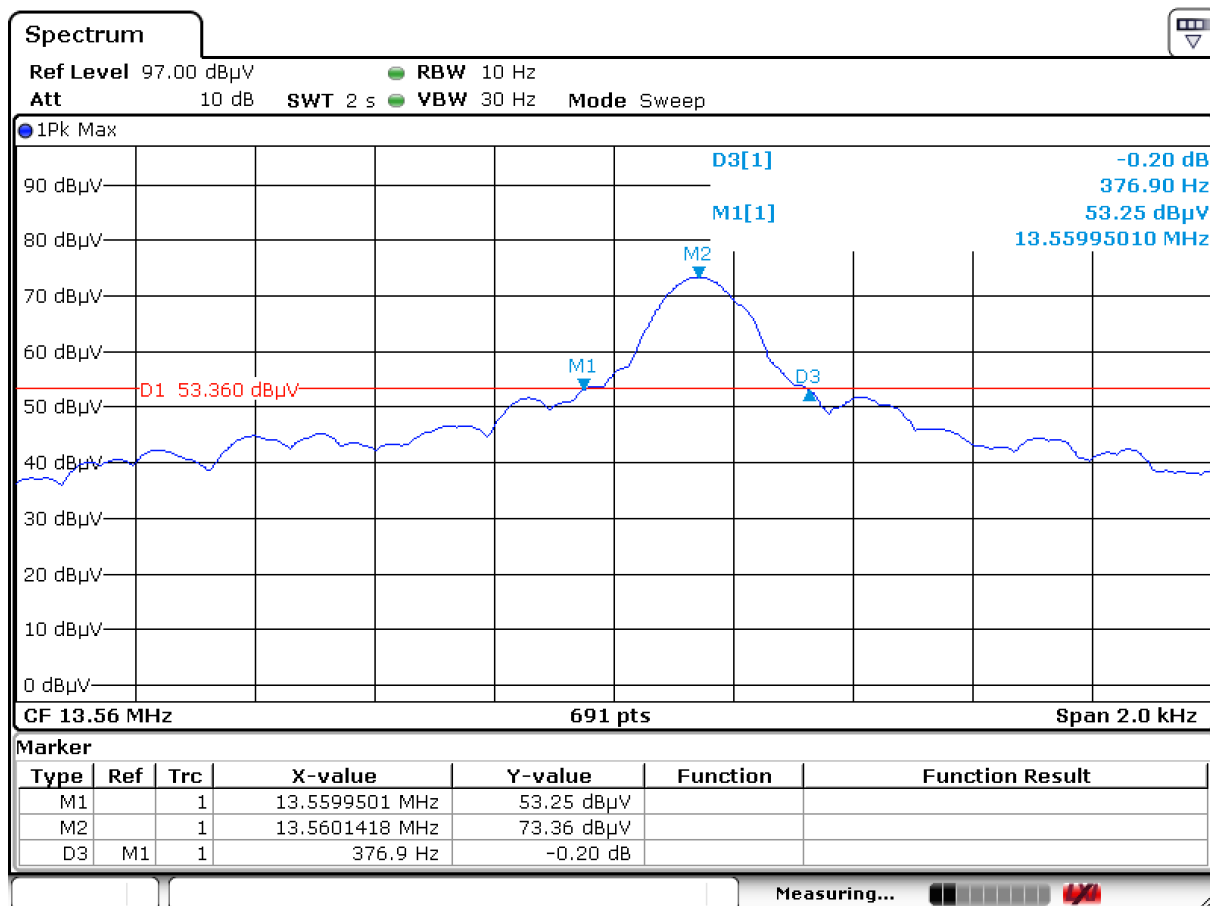


## Appendix A for KSCR220500069201

## 1. 20dB Bandwidth

| 20dB bandwidth (kHz) | F <sub>L</sub> (MHz) | F <sub>H</sub> (MHz) | Limit(MHz)      | Result |
|----------------------|----------------------|----------------------|-----------------|--------|
| 0.3769               | 13.5600              | 13.5603              | 13.110 – 14.010 | Pass   |

Test plot as follows:



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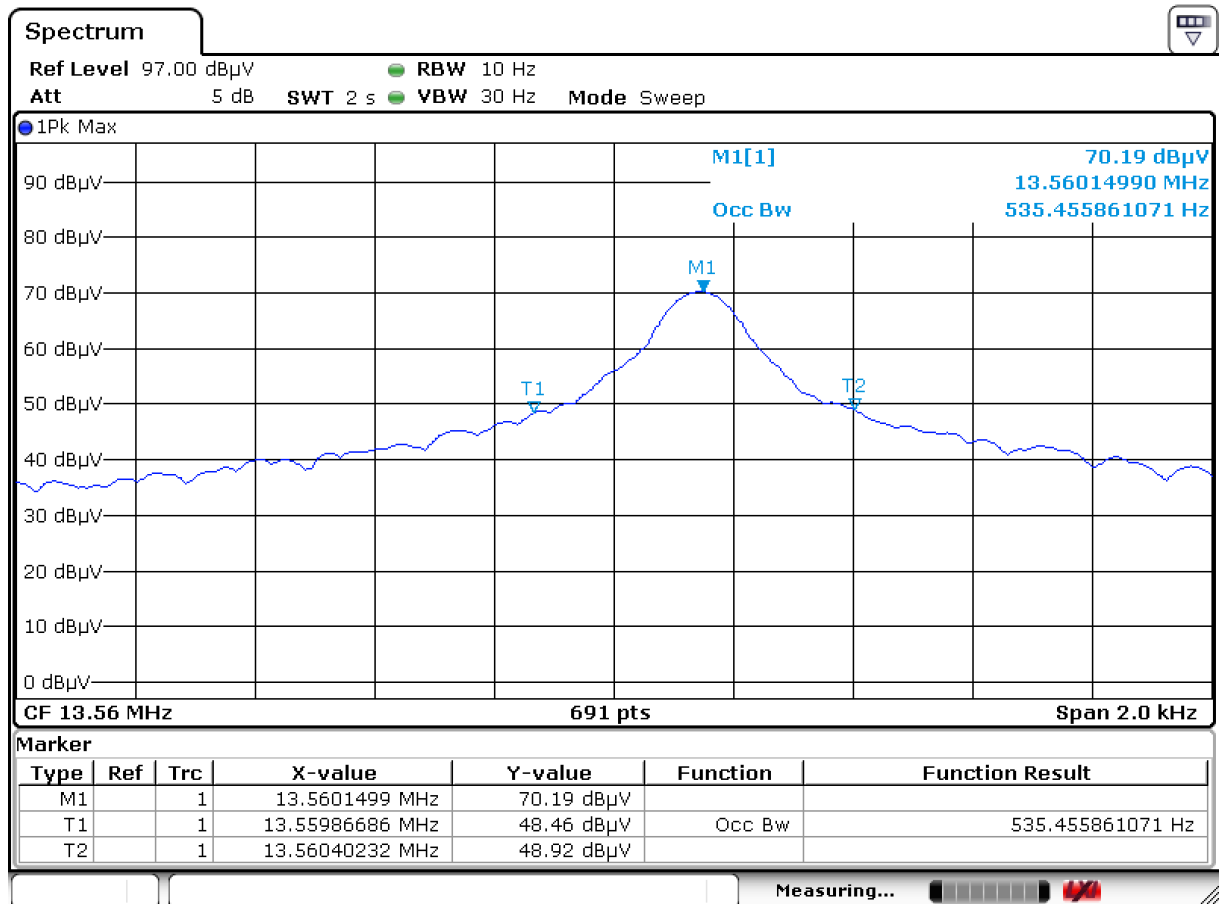
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## 2. 99% Bandwidth

| 99% bandwidth (kHz) | F <sub>L</sub> (MHz) | F <sub>H</sub> (MHz) | Limit(MHz)      | Result |
|---------------------|----------------------|----------------------|-----------------|--------|
| 0.5355              | 13.5600              | 13.5604              | 13.110 – 14.010 | Pass   |

Test plot as follows:



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### 3. Frequency tolerance

Nominal Operation Frequency: 13.56MHz

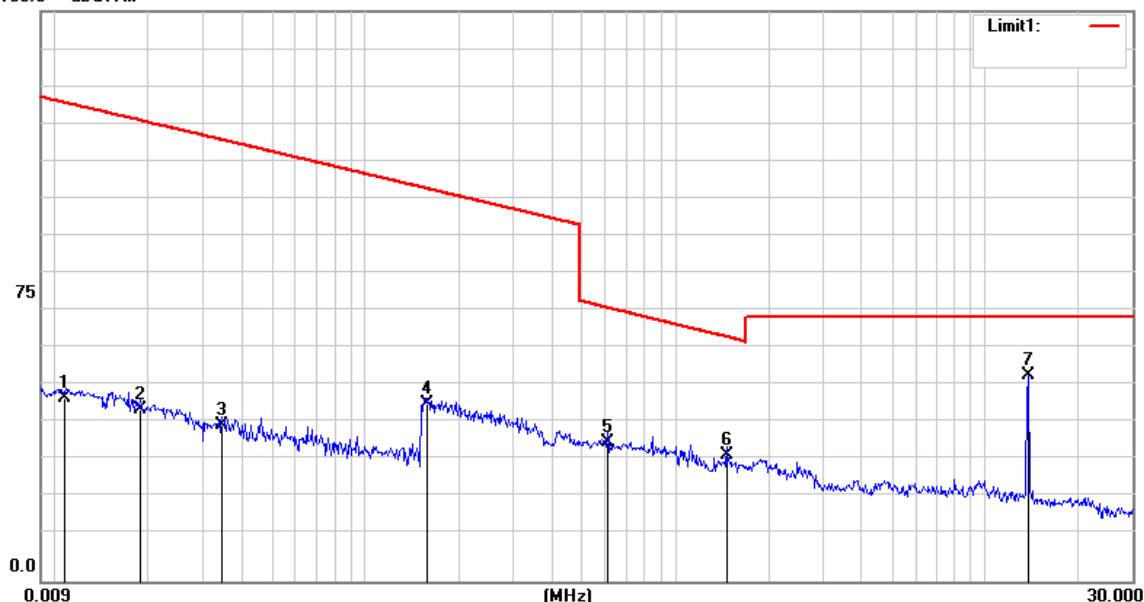
| Test Conditions        |                        | Test Result<br>(MHz) | Deviation<br>(kHz) | Limit<br>(kHz)        | Result |
|------------------------|------------------------|----------------------|--------------------|-----------------------|--------|
| Temp (°C)              | Volt (V AC)            |                      |                    |                       |        |
| T <sub>nom</sub> (-20) | V <sub>nom</sub> (120) | 13.55991             | -0.09              | ±0.01%<br>(1.3560kHz) | Pass   |
| T <sub>nom</sub> (-10) | V <sub>nom</sub> (120) | 13.55984             | -0.16              |                       | Pass   |
| T <sub>nom</sub> (0)   | V <sub>nom</sub> (120) | 13.55997             | -0.03              |                       | Pass   |
| T <sub>nom</sub> (10)  | V <sub>nom</sub> (120) | 13.56012             | 0.12               |                       | Pass   |
| T <sub>nom</sub> (20)  | V <sub>nom</sub> (120) | 13.56006             | 0.06               |                       | Pass   |
| T <sub>nom</sub> (30)  | V <sub>nom</sub> (120) | 13.56015             | 0.15               |                       | Pass   |
| T <sub>nom</sub> (40)  | V <sub>nom</sub> (120) | 13.56022             | 0.22               |                       | Pass   |
| T <sub>nom</sub> (50)  | V <sub>nom</sub> (120) | 13.56005             | 0.05               |                       | Pass   |
| T <sub>nom</sub> (20)  | V <sub>min</sub> (102) | 13.56013             | 0.13               |                       | Pass   |
|                        | V <sub>max</sub> (138) | 13.56010             | 0.10               |                       | Pass   |

Note: Deviation (kHz) = (Test Result-13.56MHz)\*1000

### 4. Radiated Emissions(9kHz-30MHz)

#### Horizontal

150.0 dBuV/m



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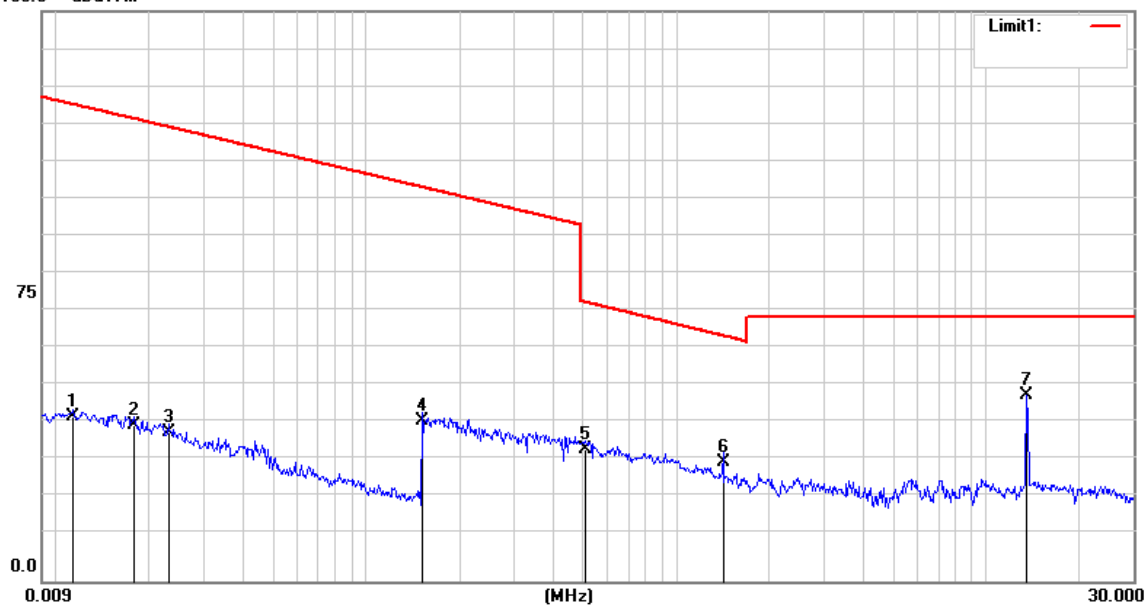
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| Item   | Freq.   | Read Level | Correct Factor | Result Level@ 3m | Result Level@S PEC | Limit Line@SP EC | Over Limit | Detector |
|--------|---------|------------|----------------|------------------|--------------------|------------------|------------|----------|
| (Mark) | (MHz)   | (dBμV)     | (dB/m)         | (dBuV/m)         | (dBuV/m)           | (dBuV/m)         | (dB)       |          |
| 1      | 0.0108  | 32.37      | 15.99          | 48.36            | -31.64             | 47.50            | -79.14     | QP       |
| 2      | 0.0188  | 29.32      | 15.90          | 45.22            | -34.78             | 36.65            | -71.43     | QP       |
| 3      | 0.0345  | 25.33      | 15.73          | 41.06            | -38.94             | 22.83            | -61.77     | QP       |
| 4      | 0.1590  | 32.18      | 14.45          | 46.63            | -33.37             | 13.82            | -47.19     | QP       |
| 5      | 0.6040  | 22.19      | 14.40          | 36.59            | -3.41              | 29.74            | -33.15     | QP       |
| 6      | 1.4560  | 18.86      | 14.32          | 33.18            | -6.82              | 29.50            | -36.32     | QP       |
| 7      | 13.8411 | 41.02      | 13.06          | 54.08            | 14.08              | 29.50            | -15.42     | Peak     |

## Vertical

150.0 dBuV/m



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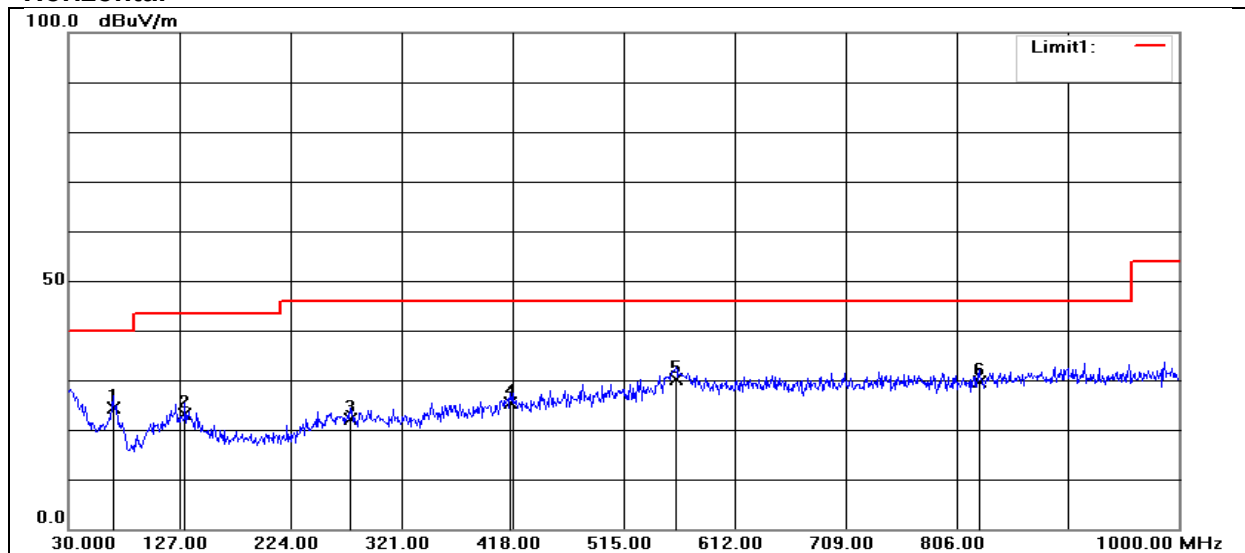
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| Item   | Freq.   | Read Level | Correct Factor | Result Level@3 m | Result Level@SP EC | Limit Line@SP EC | Over Limit | Detector |
|--------|---------|------------|----------------|------------------|--------------------|------------------|------------|----------|
| (Mark) | (MHz)   | (dBμV)     | (dB/m)         | (dBuV/m)         | (dBuV/m)           | (dBuV/m)         | (dB)       |          |
| 1      | 0.0114  | 27.21      | 15.98          | 43.19            | -36.81             | 47.50            | -84.31     | QP       |
| 2      | 0.0177  | 25.31      | 15.91          | 41.22            | -38.78             | 36.65            | -75.43     | QP       |
| 3      | 0.0230  | 23.41      | 15.86          | 39.27            | -40.73             | 22.83            | -63.56     | QP       |
| 4      | 0.1500  | 27.61      | 14.45          | 42.06            | -37.94             | 13.82            | -51.76     | QP       |
| 5      | 0.5100  | 20.17      | 14.41          | 34.58            | -5.42              | 29.74            | -35.16     | QP       |
| 6      | 1.4107  | 16.90      | 14.32          | 31.22            | -8.78              | 29.50            | -38.28     | QP       |
| 7      | 13.4793 | 35.70      | 13.10          | 48.80            | 8.80               | 29.50            | -20.70     | Peak     |

## 5. Below 1GHz

## Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 68.8000         | 8.73           | 15.60                | 24.33           | 40.00          | -15.67      | QP     |
| 2   | 131.8500        | 3.86           | 19.30                | 23.16           | 43.50          | -20.34      | QP     |
| 3   | 276.3800        | 1.79           | 20.26                | 22.05           | 46.00          | -23.95      | QP     |
| 4   | 416.0600        | 1.33           | 24.01                | 25.34           | 46.00          | -20.66      | QP     |
| 5   | 560.5900        | 2.82           | 27.34                | 30.16           | 46.00          | -15.84      | QP     |
| 6   | 825.4000        | 27.39          | 2.19                 | 29.58           | 46.00          | -16.42      | QP     |



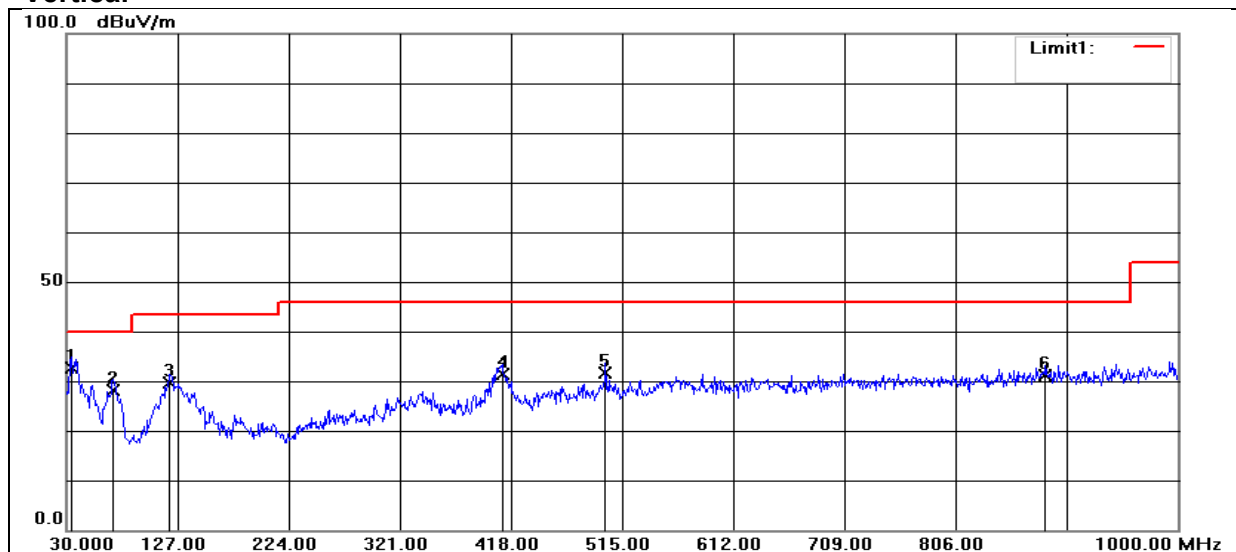
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## Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 33.8800         | 7.76           | 24.92                | 32.68           | 40.00          | -7.32       | QP     |
| 2   | 70.7400         | 12.45          | 15.70                | 28.15           | 40.00          | -11.85      | QP     |
| 3   | 120.2100        | 10.19          | 19.37                | 29.56           | 43.50          | -13.94      | QP     |
| 4   | 410.2400        | 7.47           | 23.79                | 31.26           | 46.00          | -14.74      | QP     |
| 5   | 500.4500        | 5.79           | 25.75                | 31.54           | 46.00          | -14.46      | QP     |
| 6   | 884.5700        | 28.82          | 2.35                 | 31.17           | 46.00          | -14.83      | QP     |



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