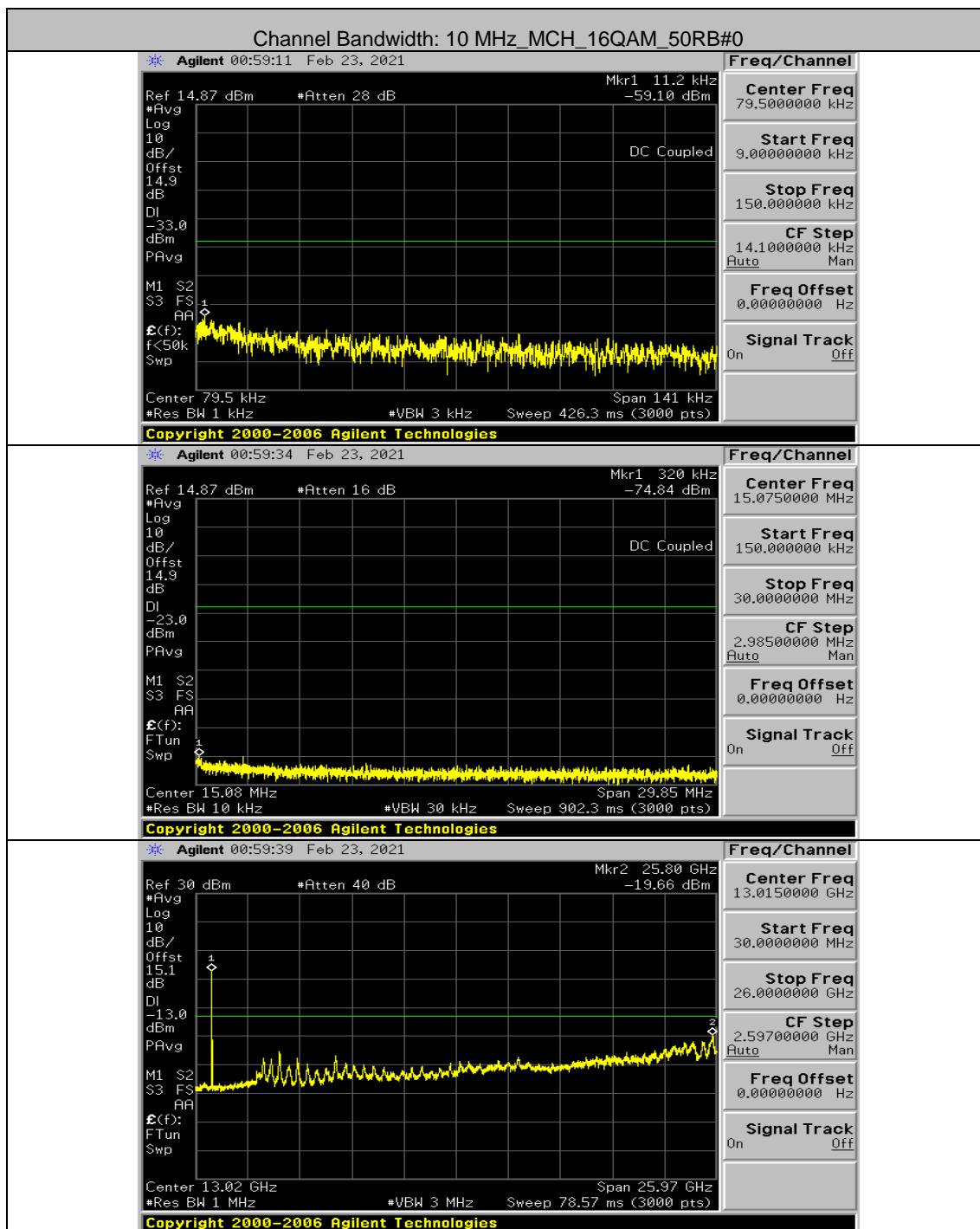
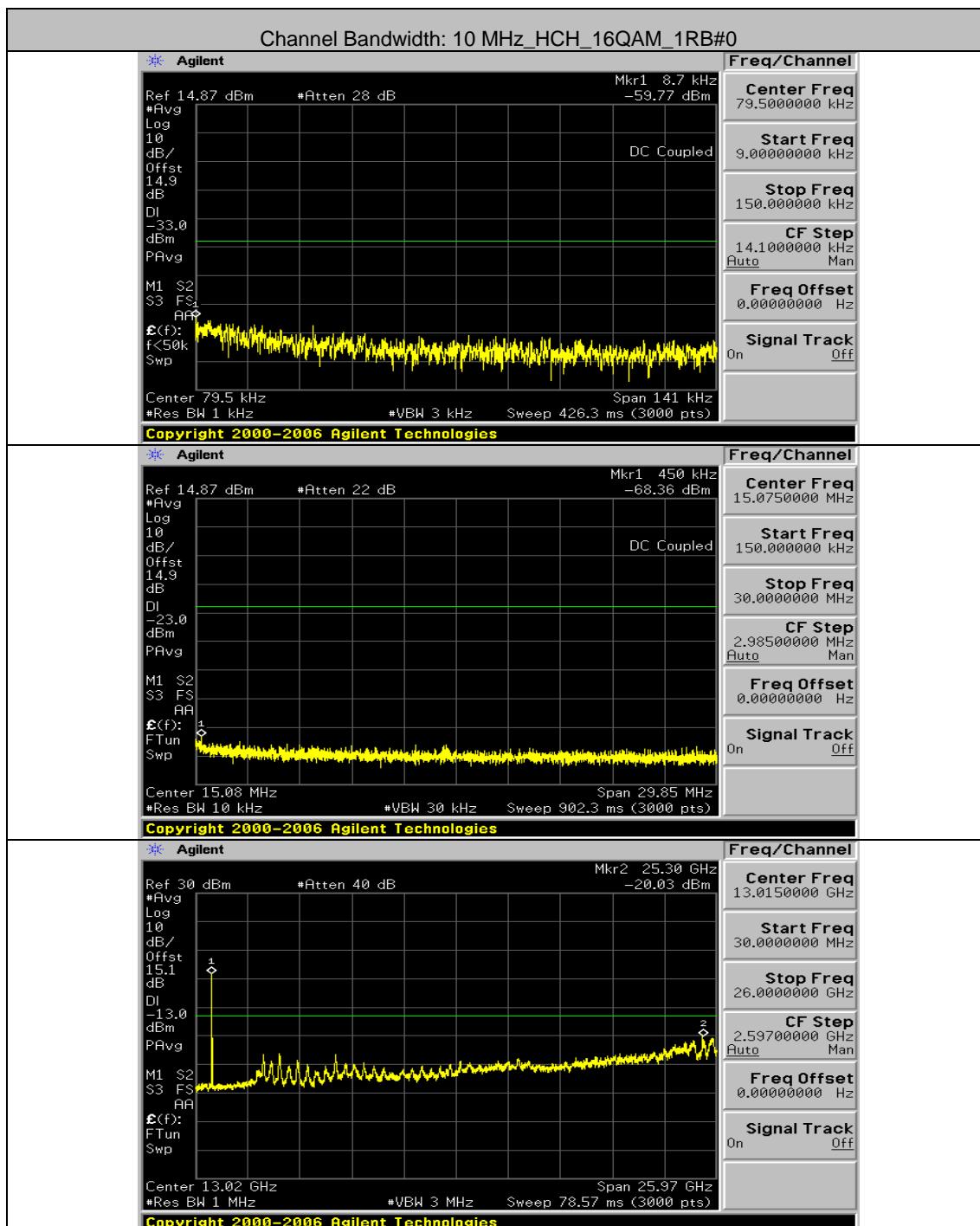


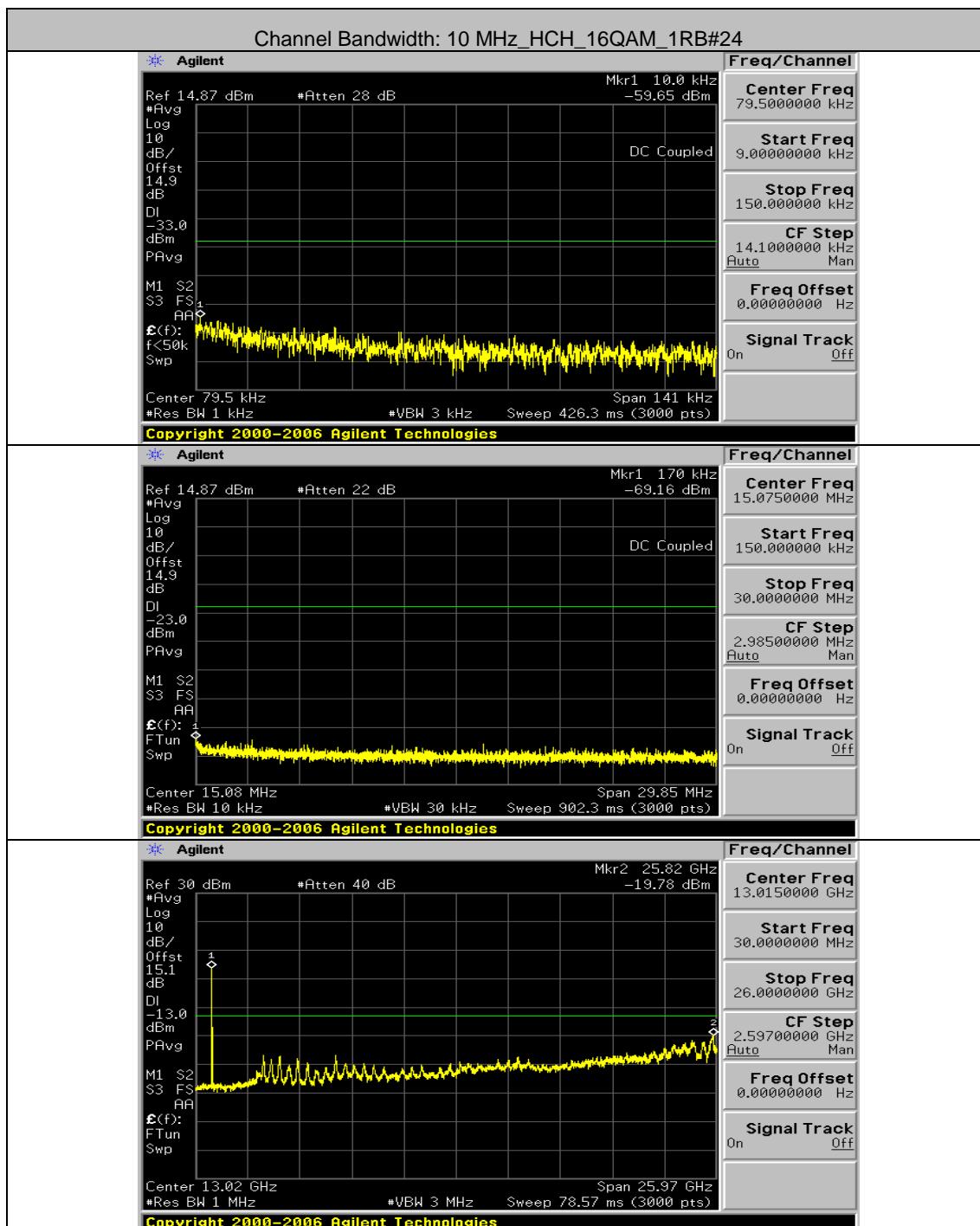


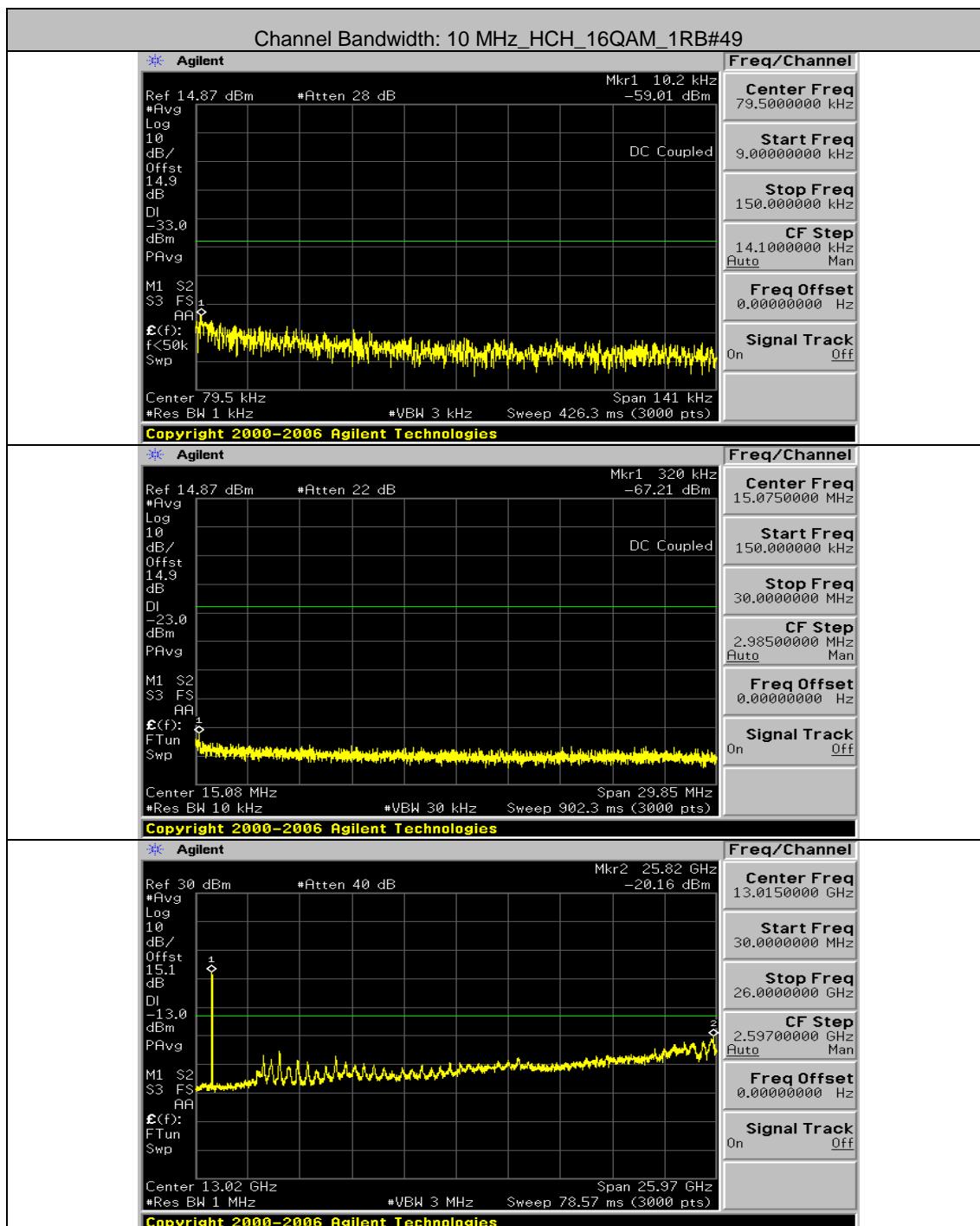
Shenzhen Huaxia Testing Technology Co., Ltd

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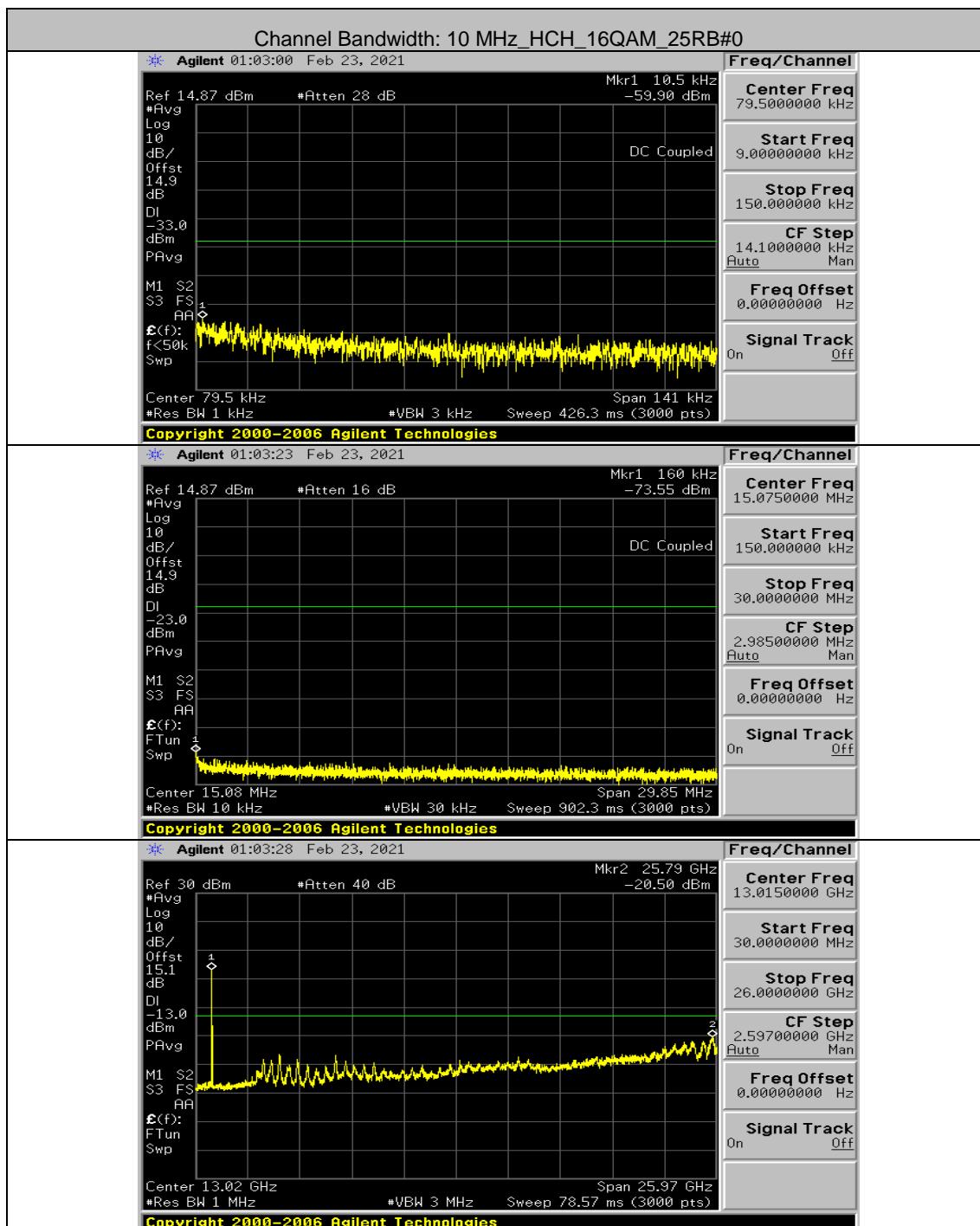


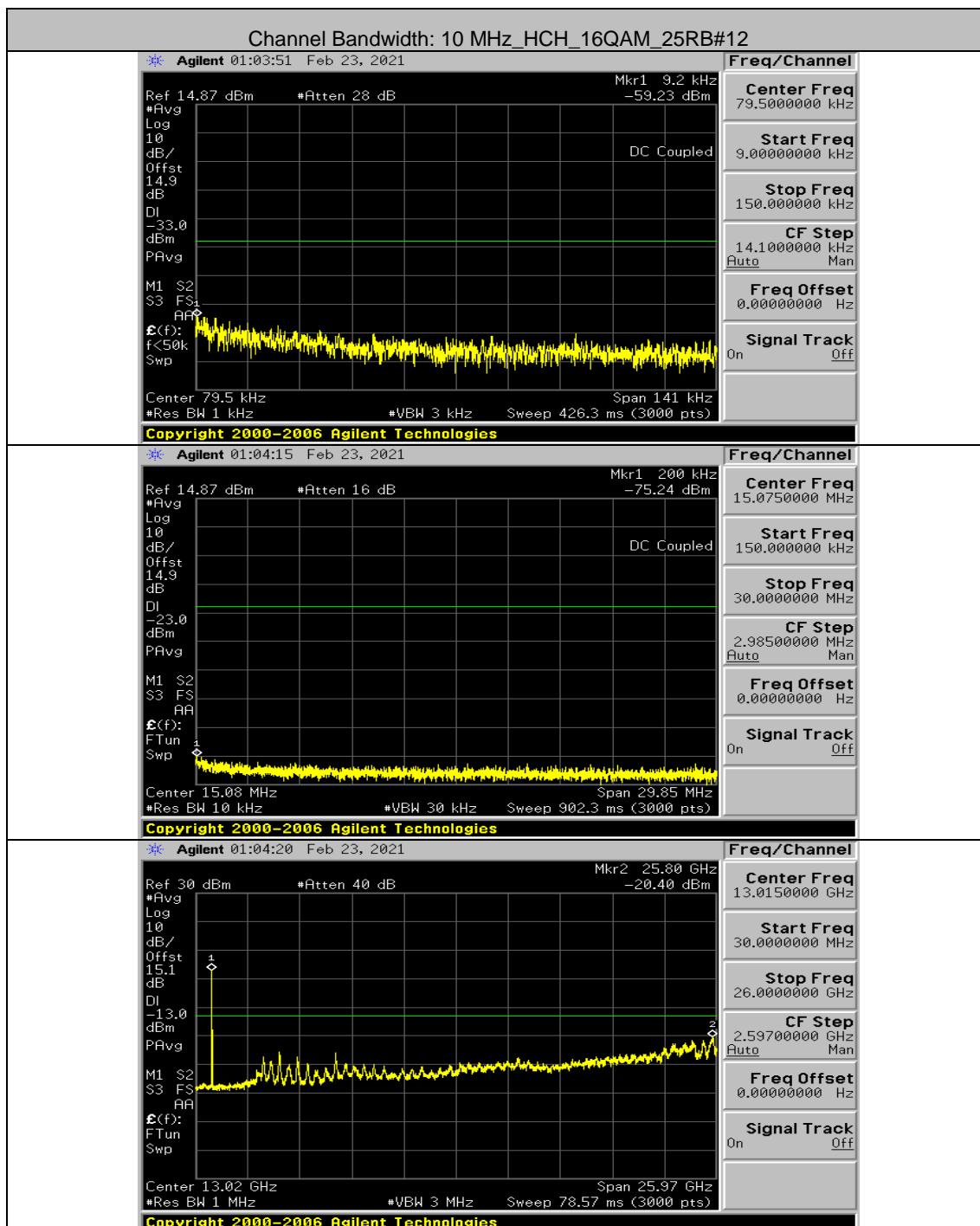


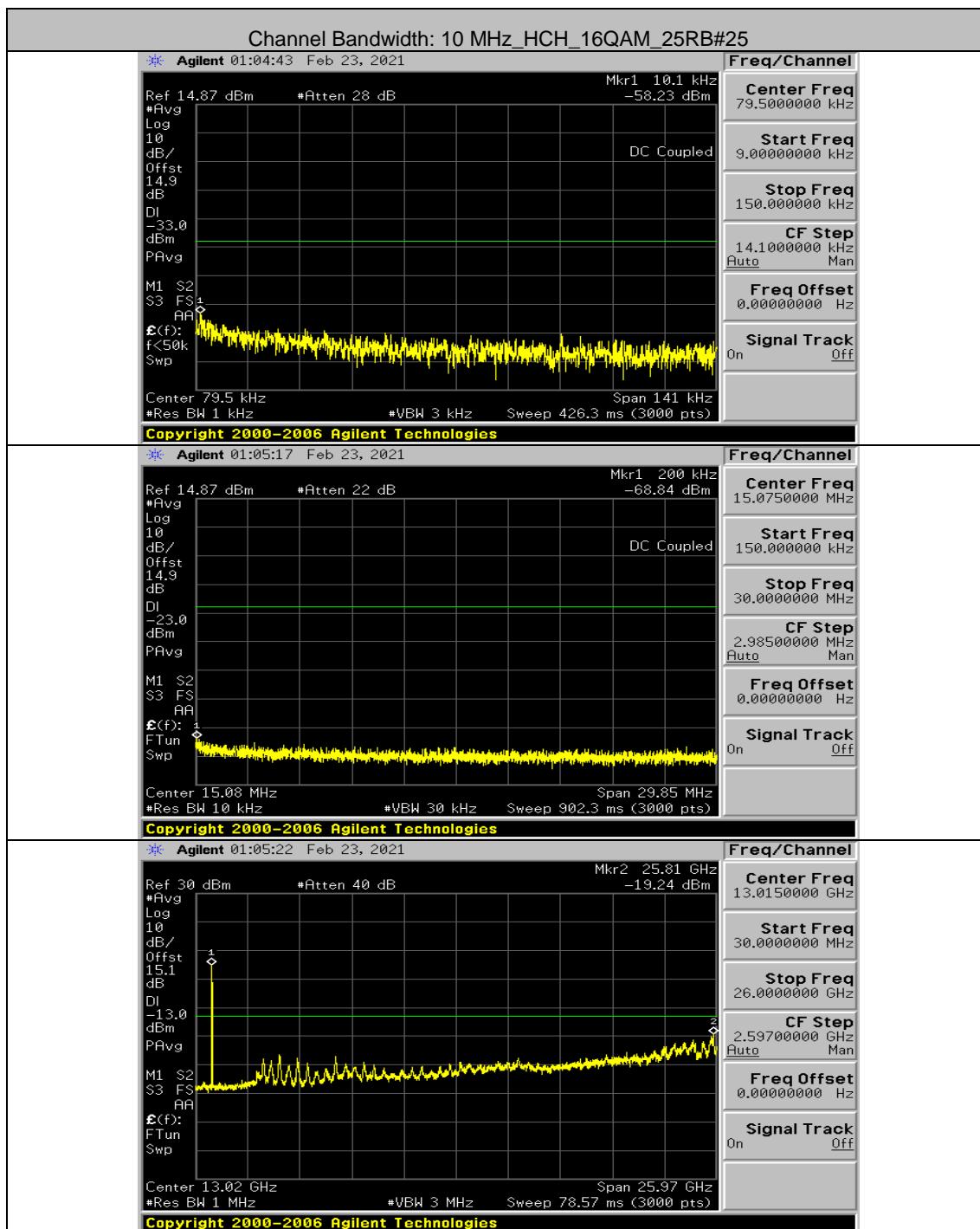


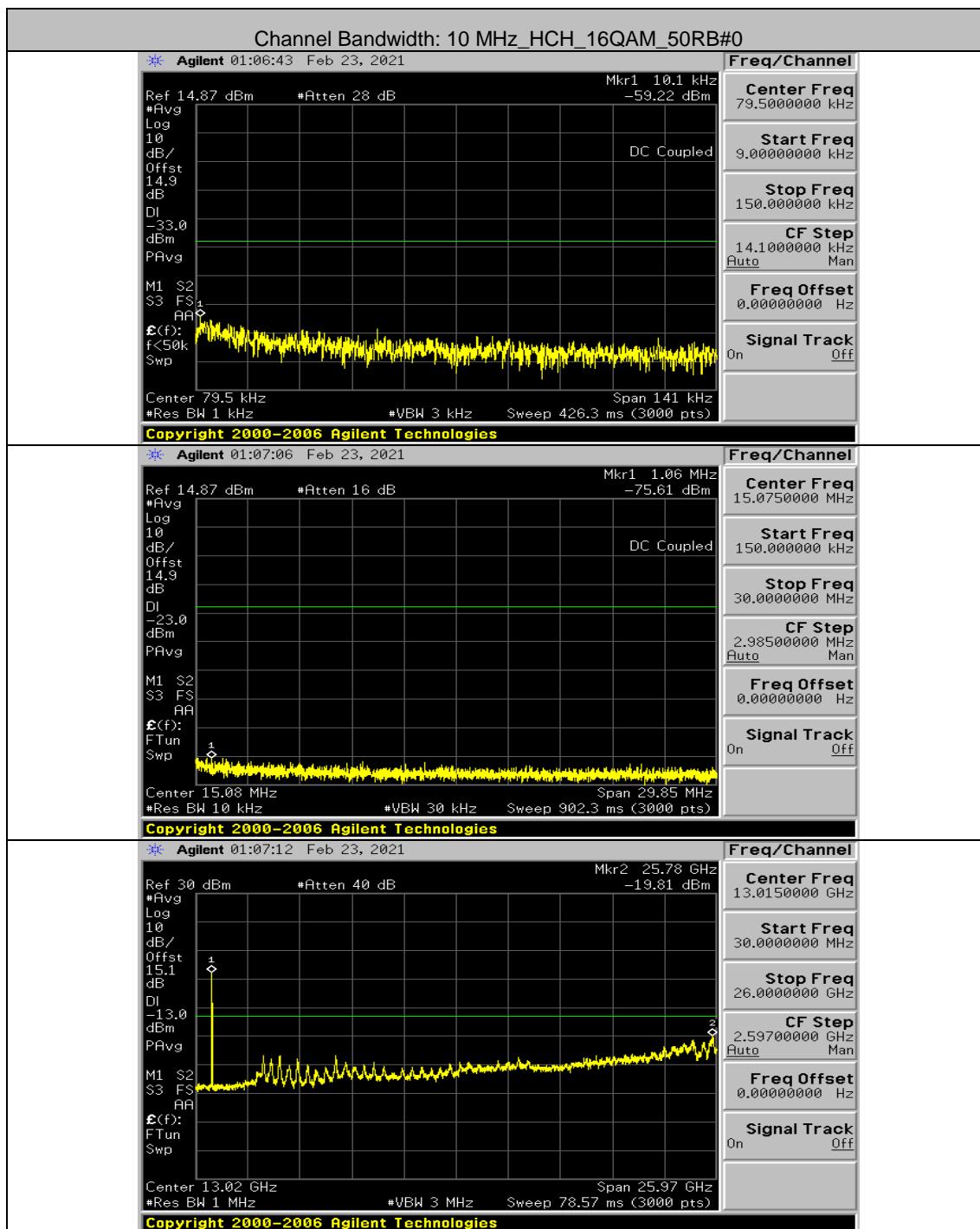
Shenzhen Huaxia Testing Technology Co., Ltd

Report No.: CQASZ20190200042E-05



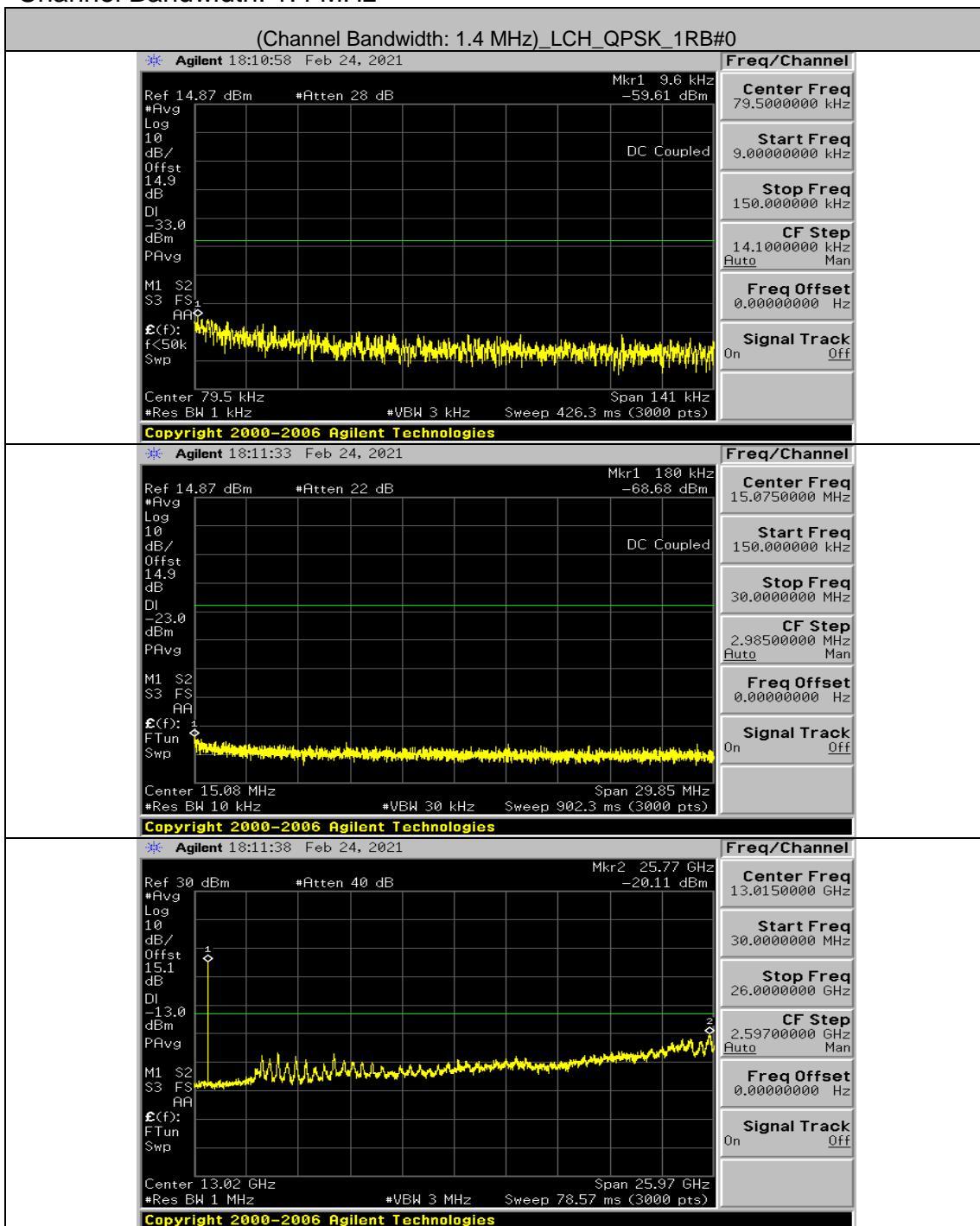


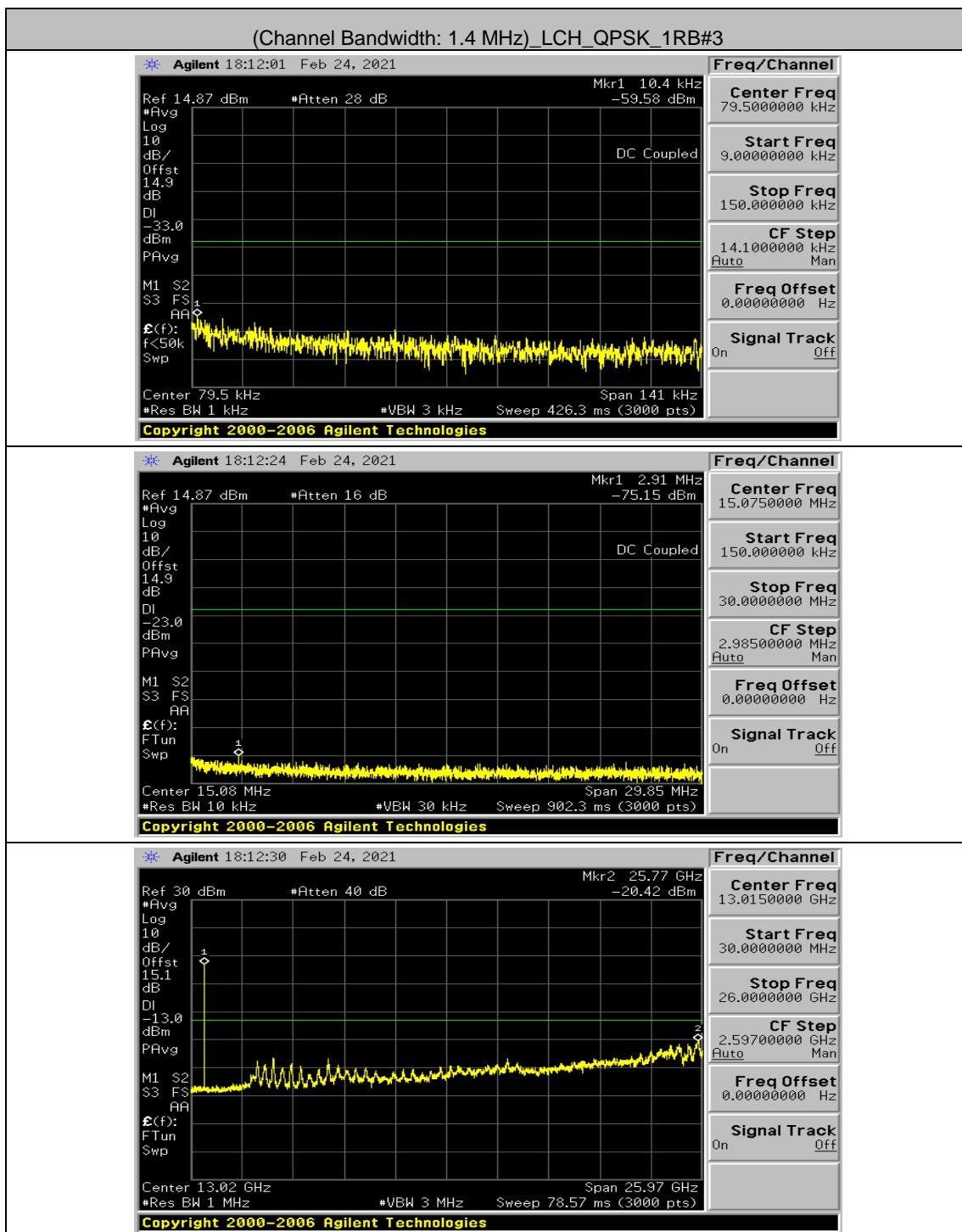


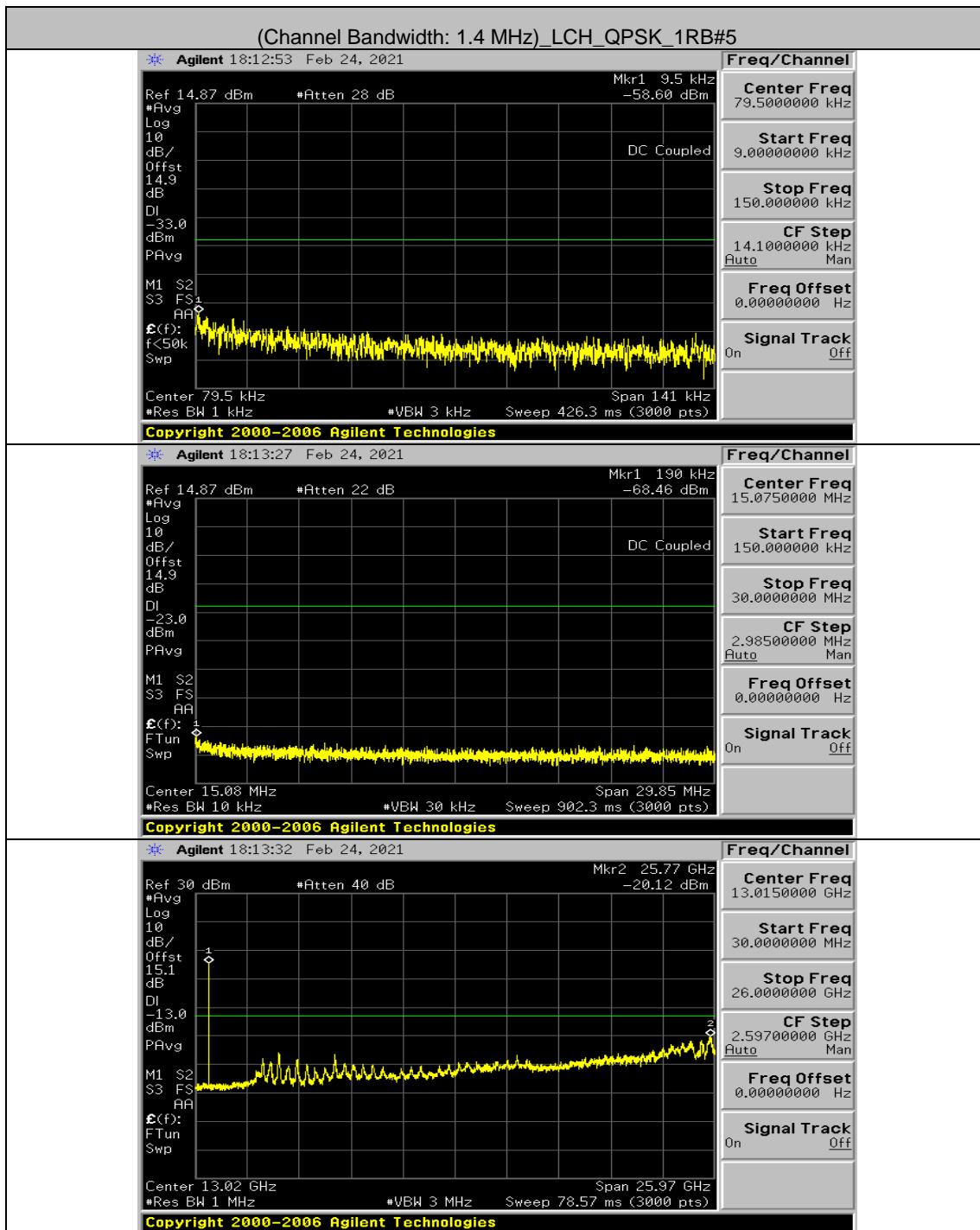


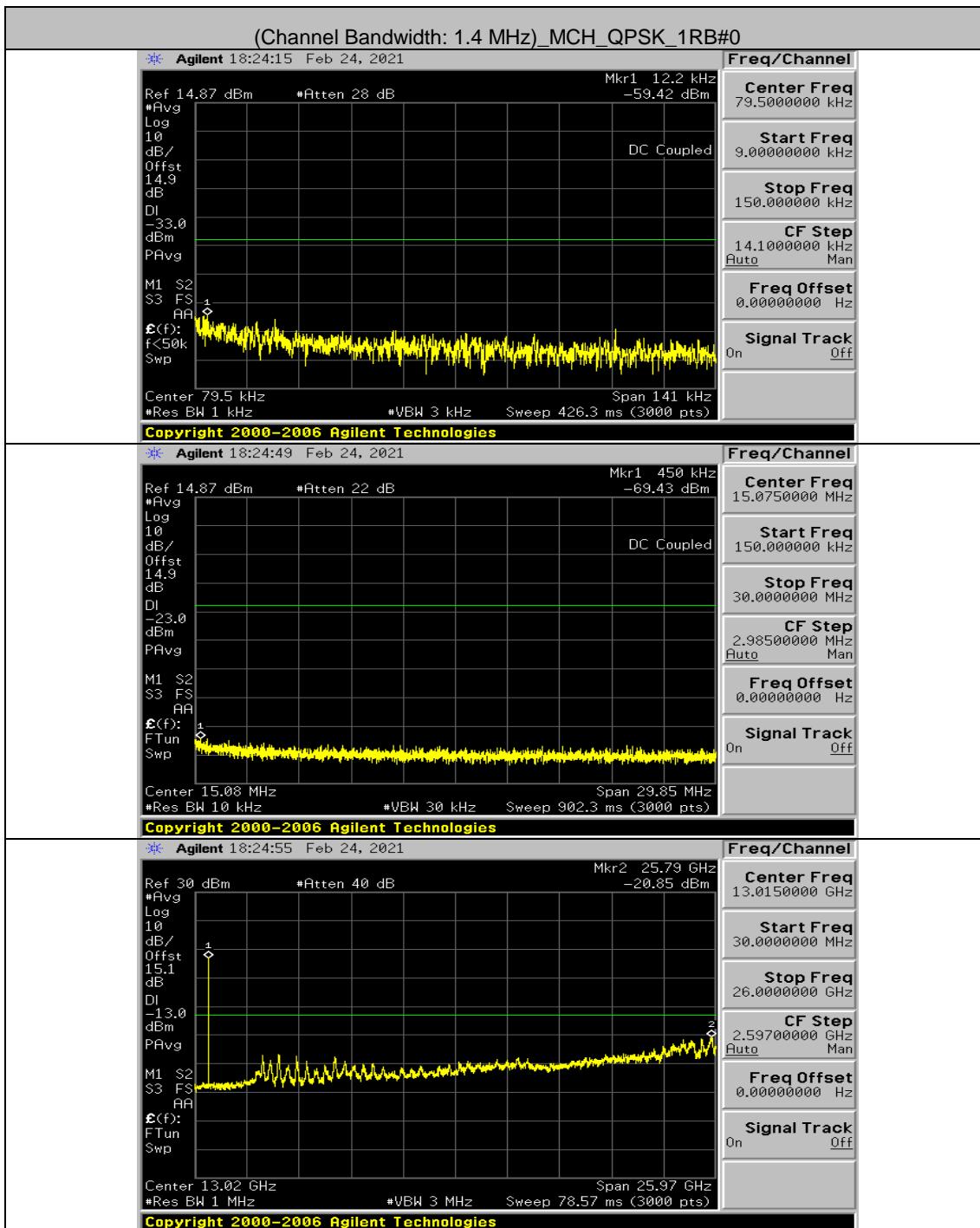
**LTE Band 12**
**Test Graphs:**

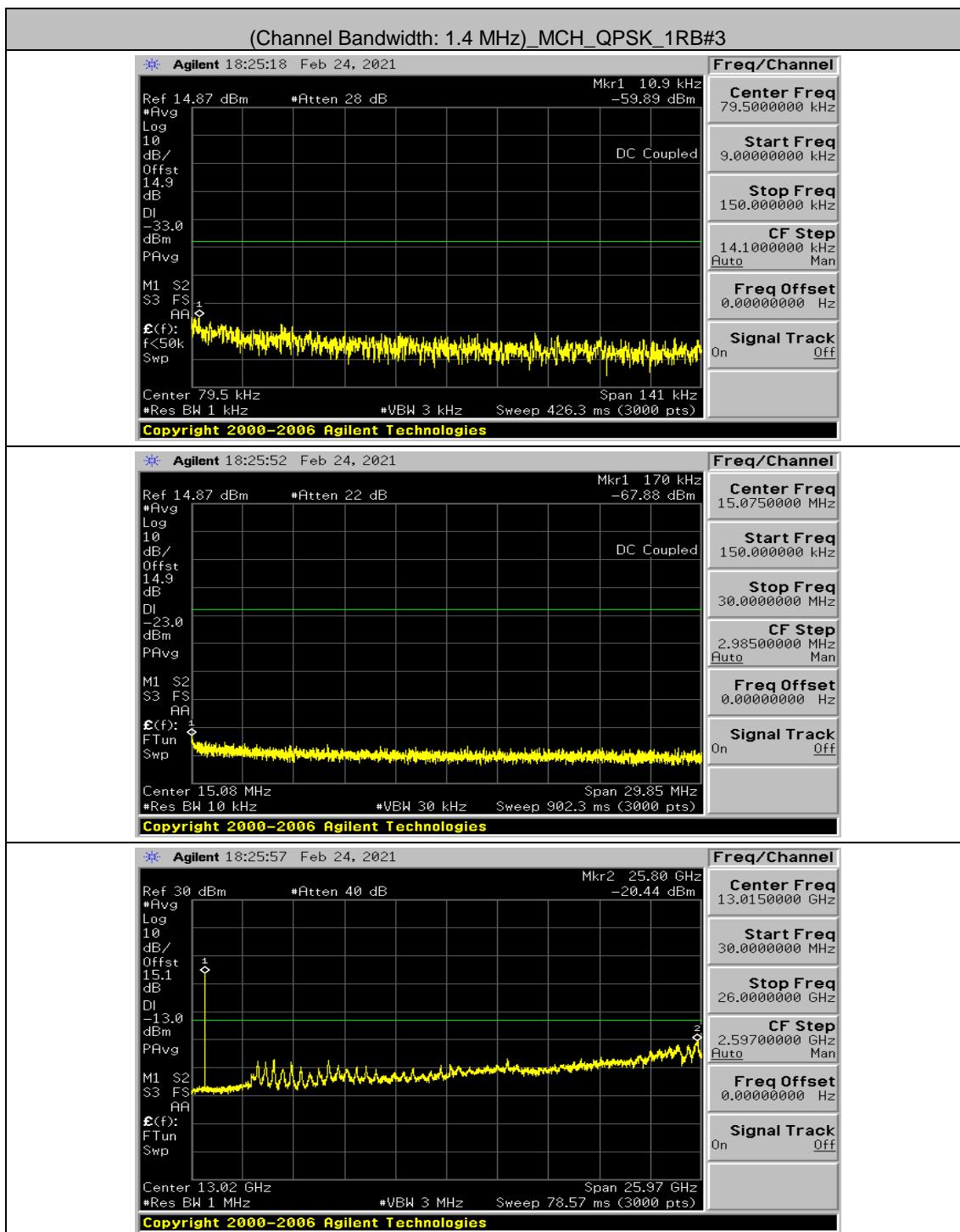
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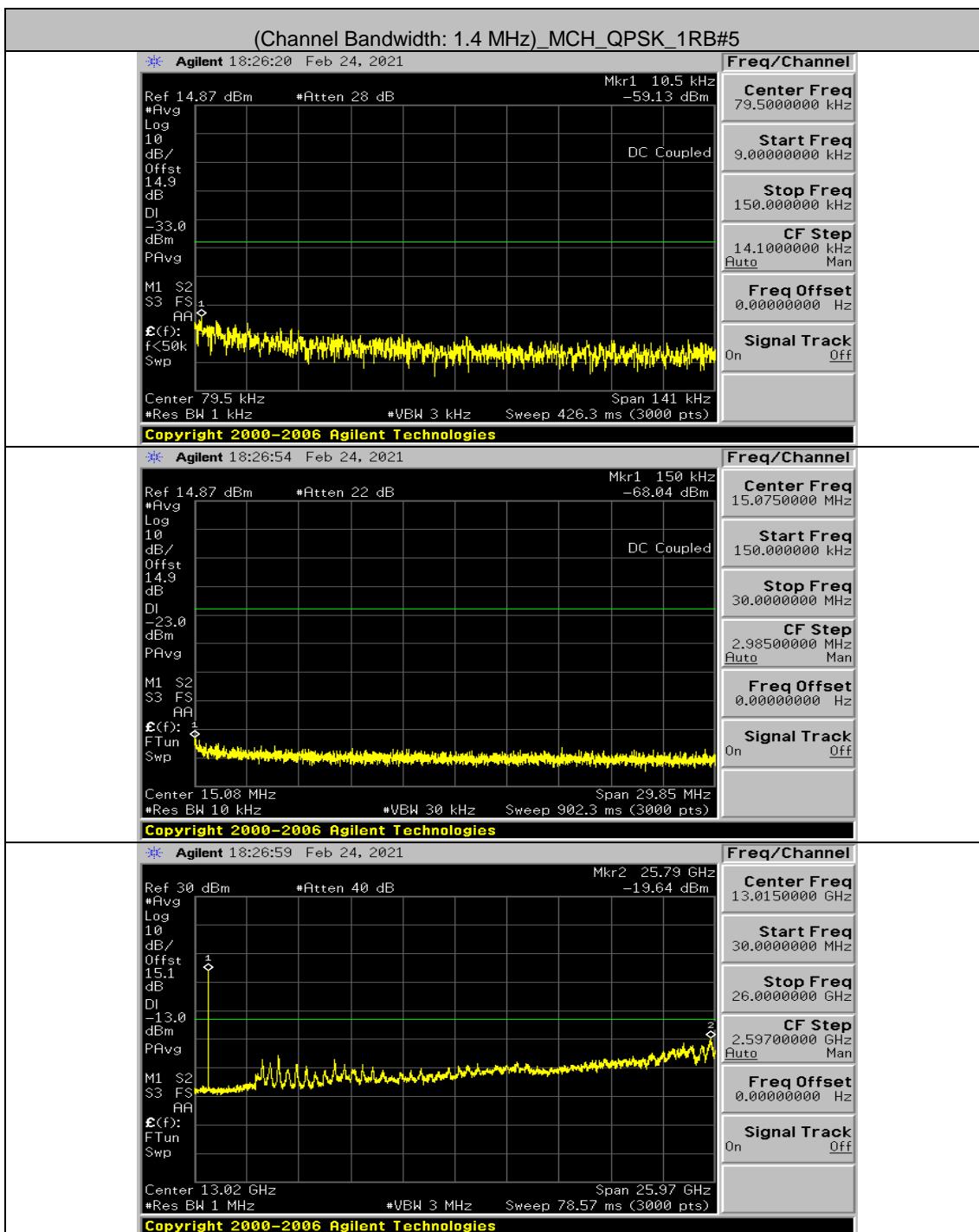


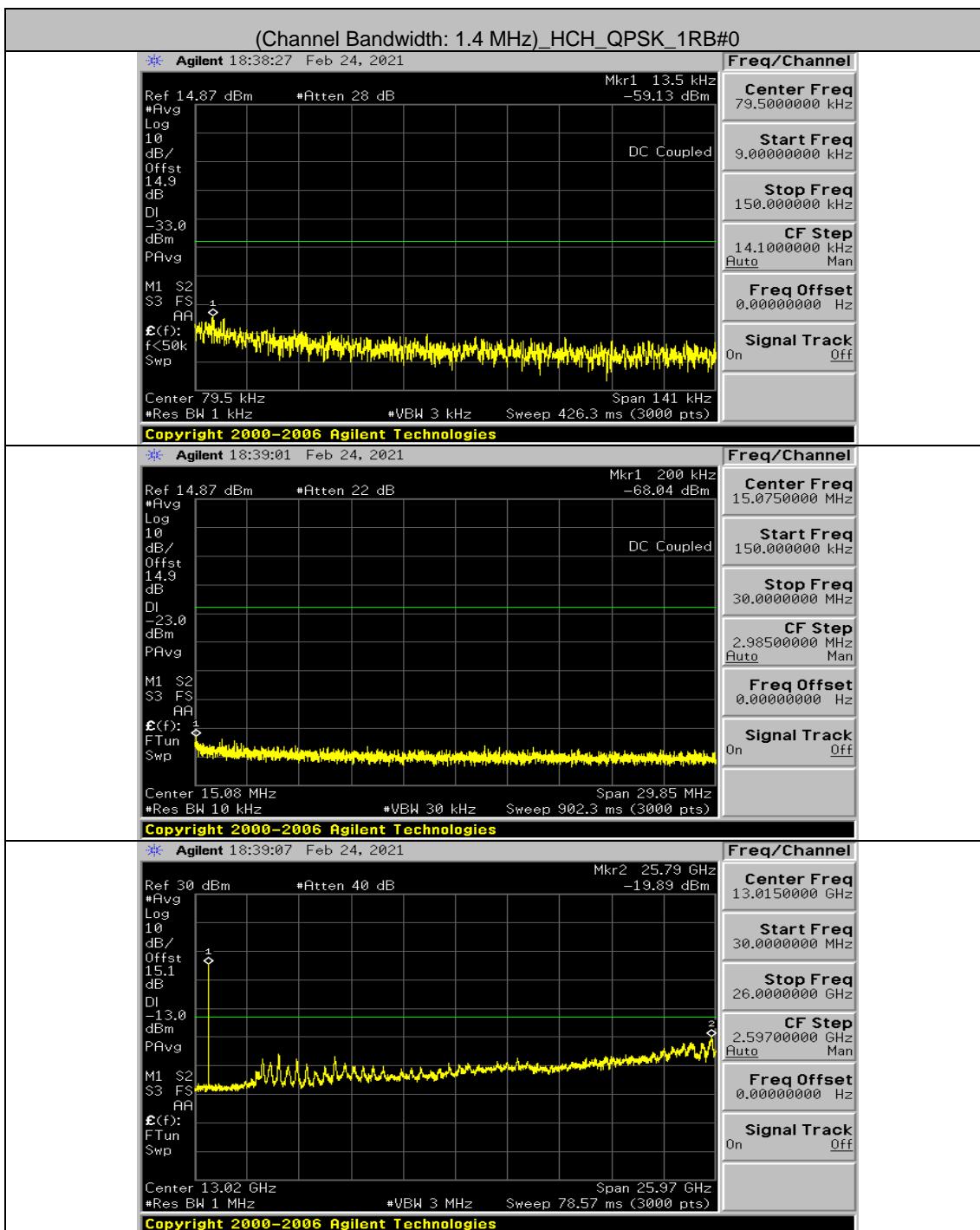


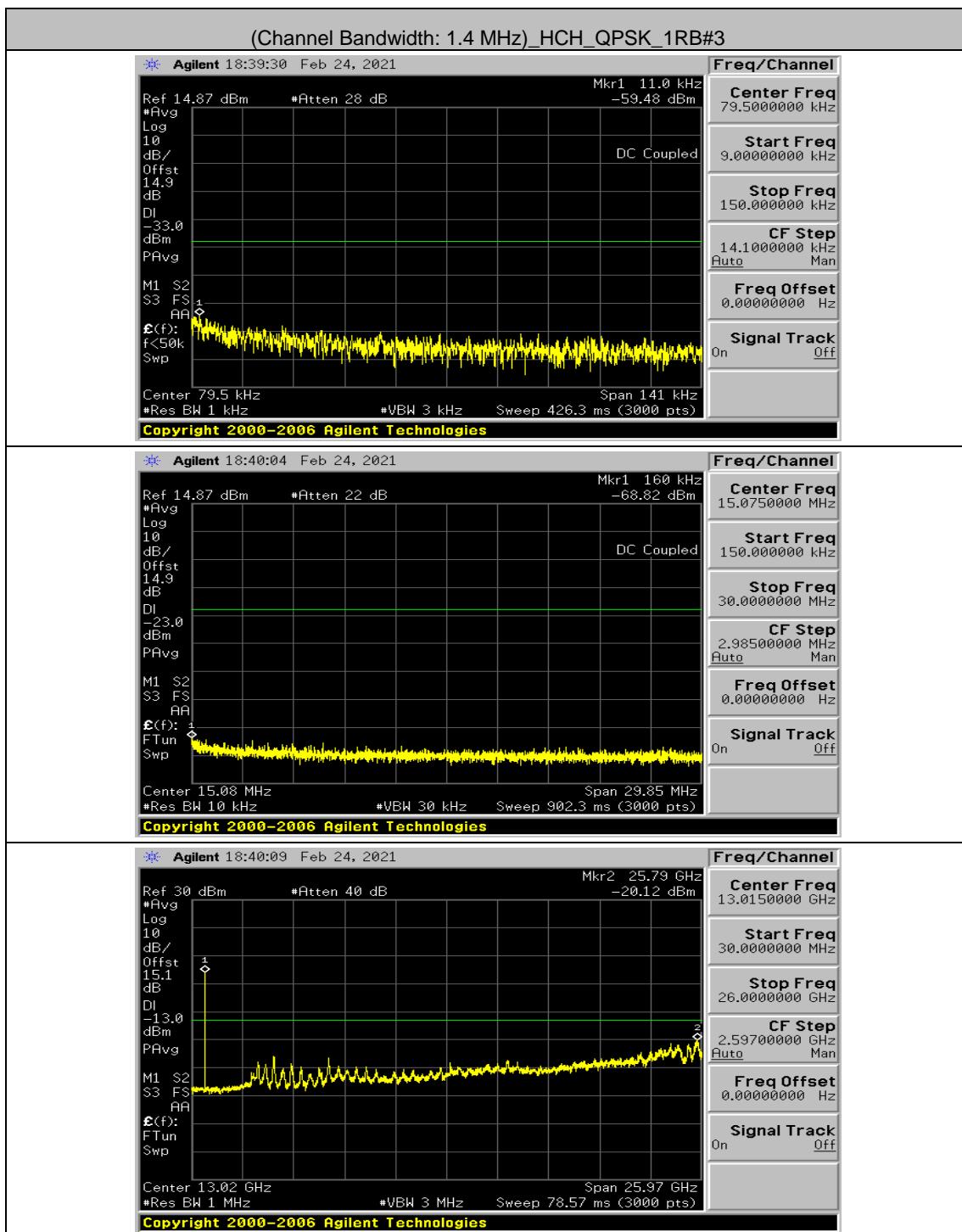


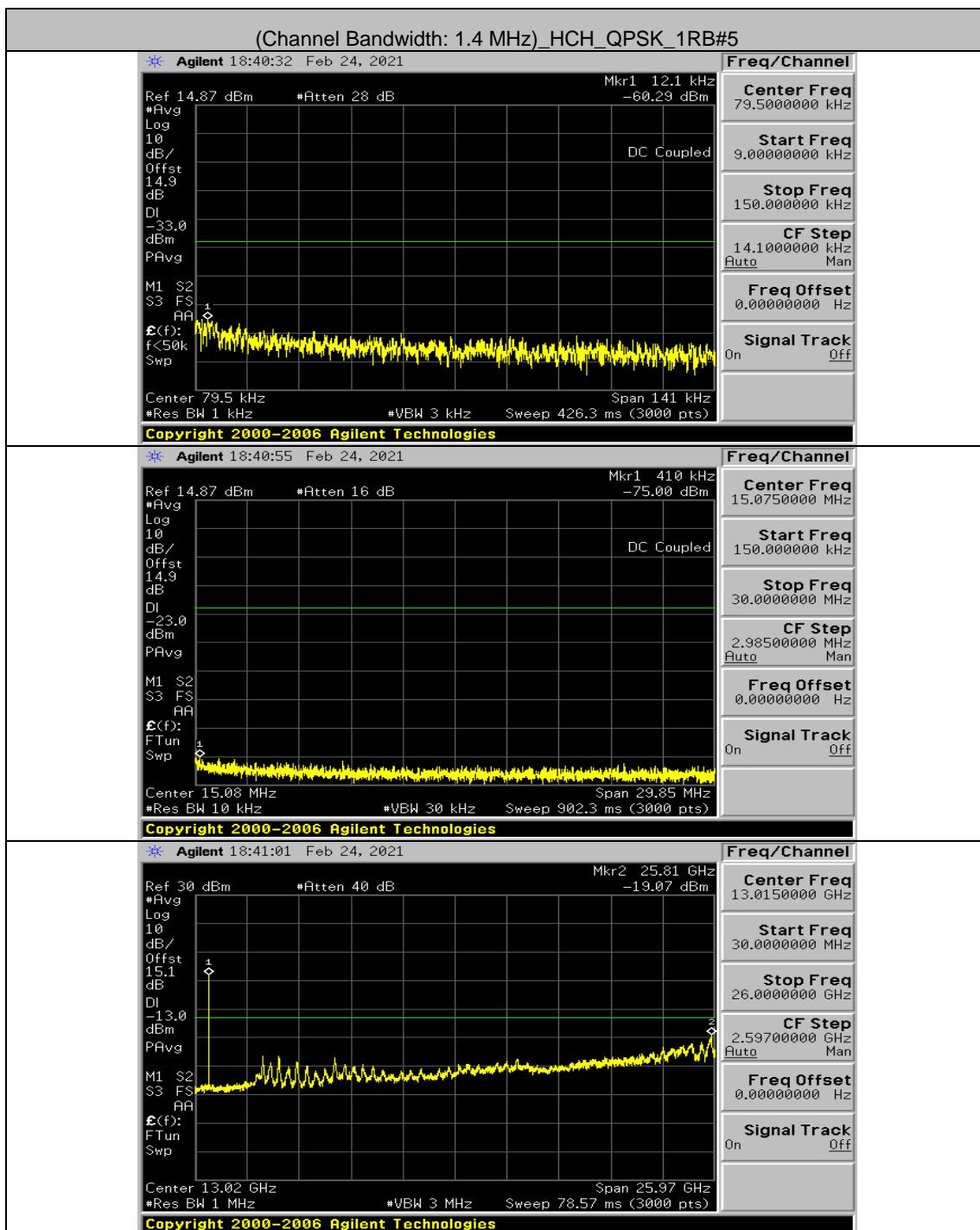


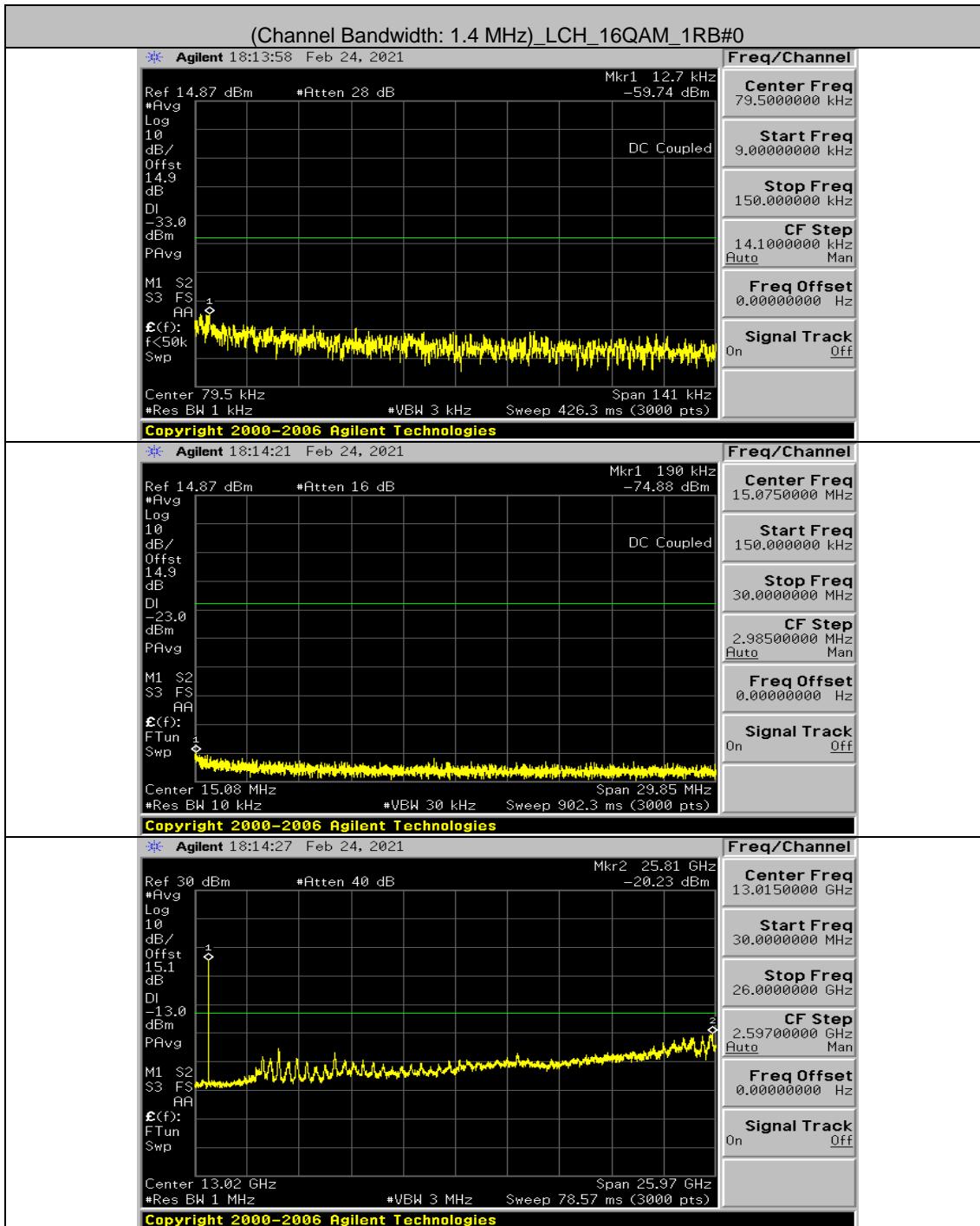


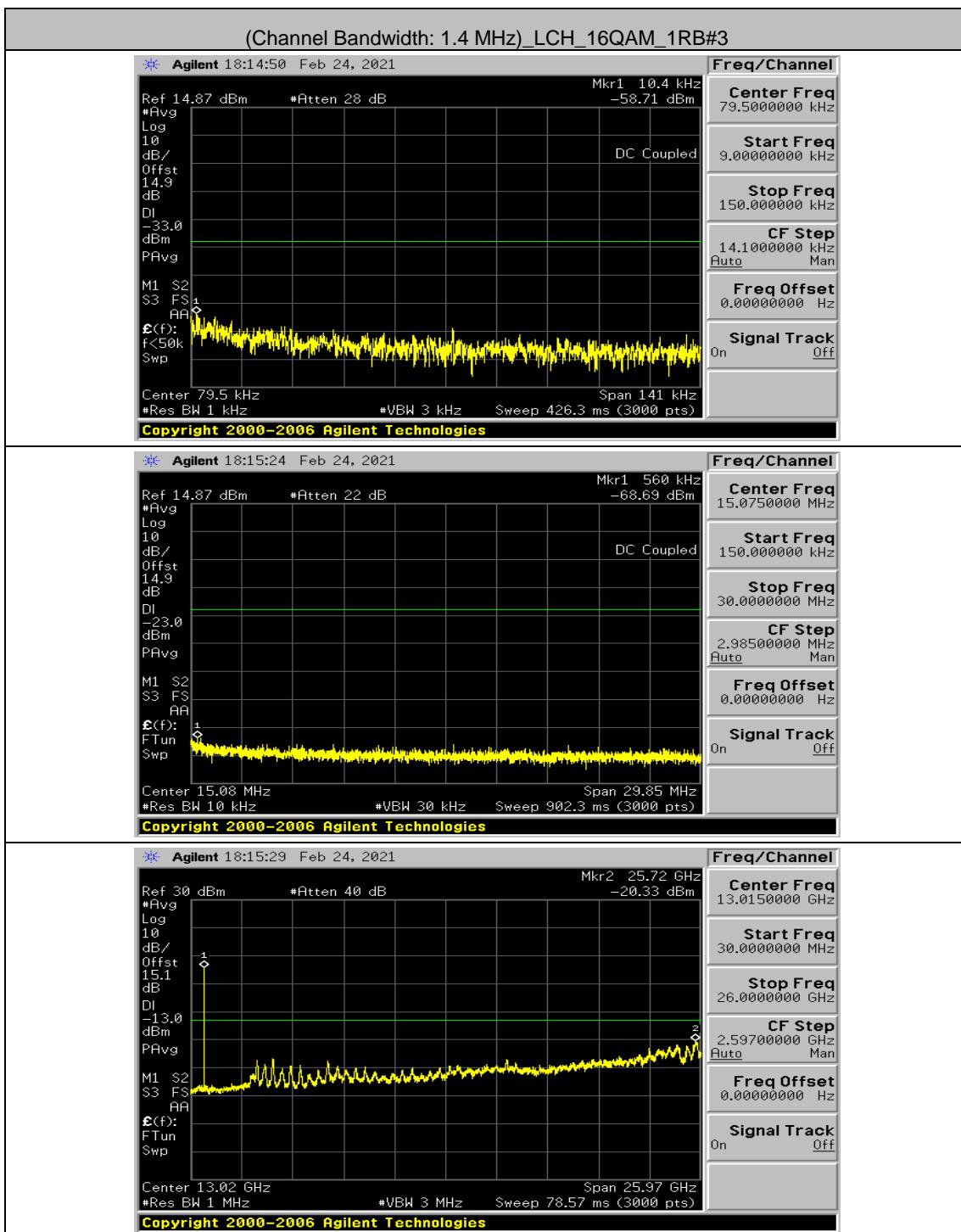


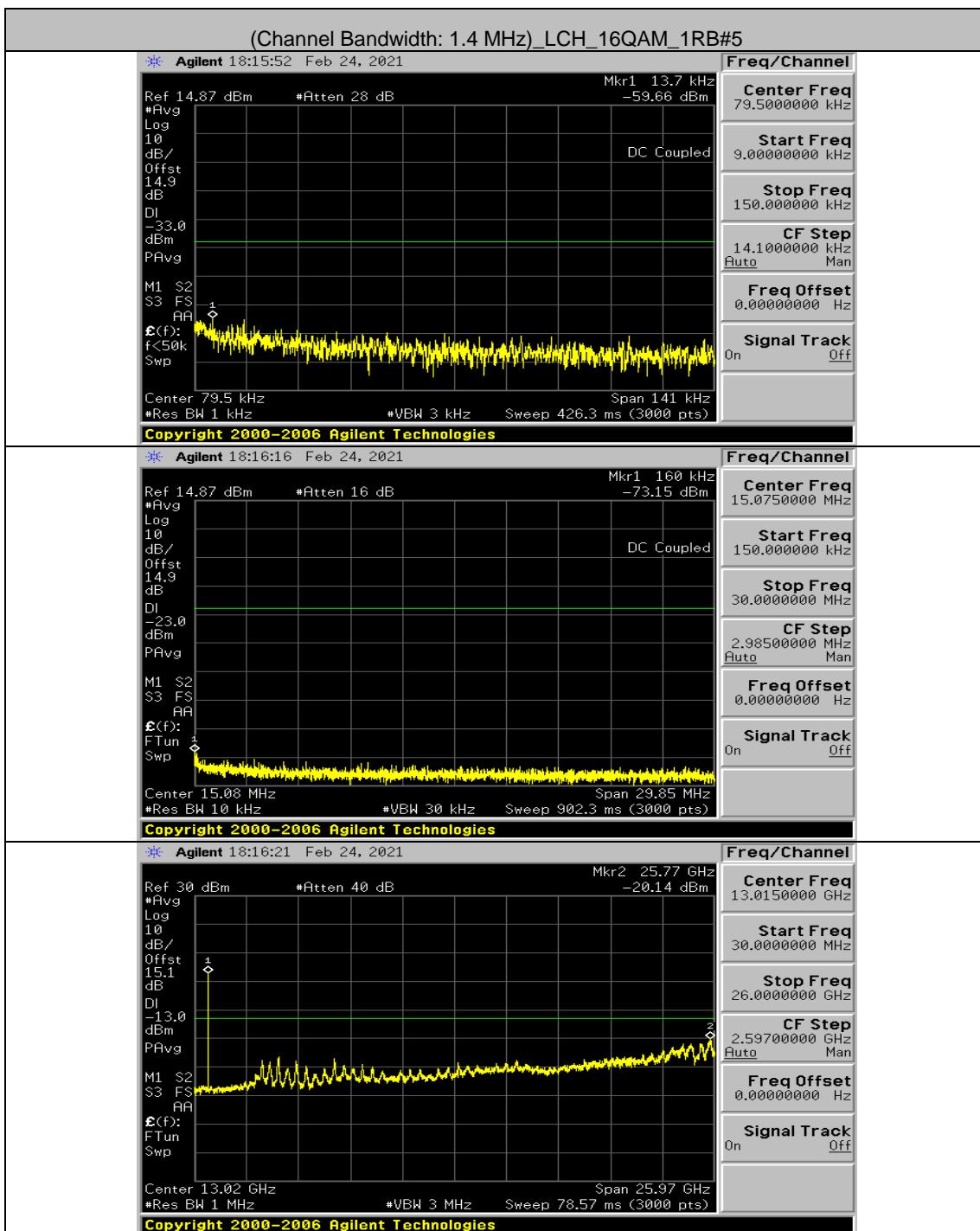


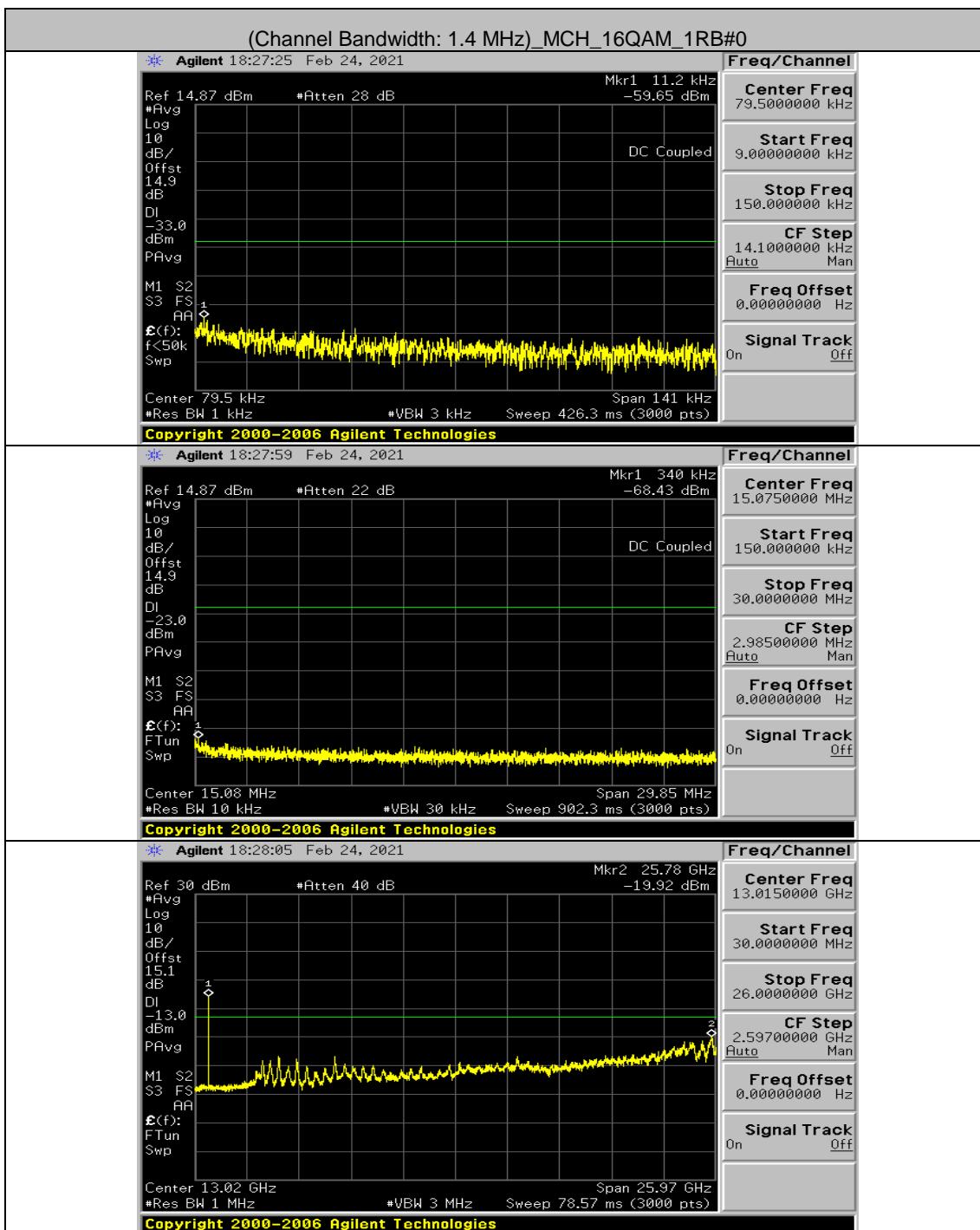


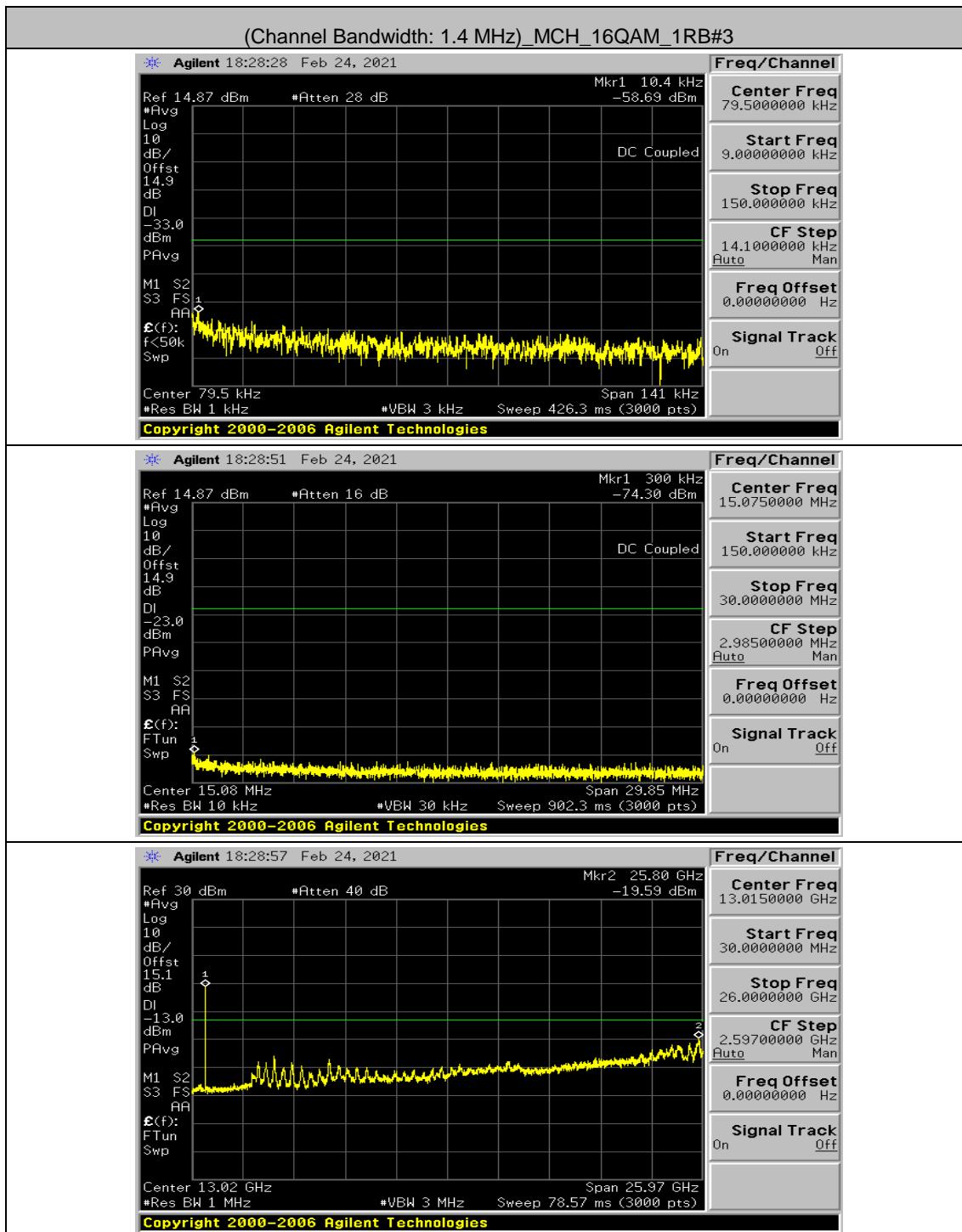


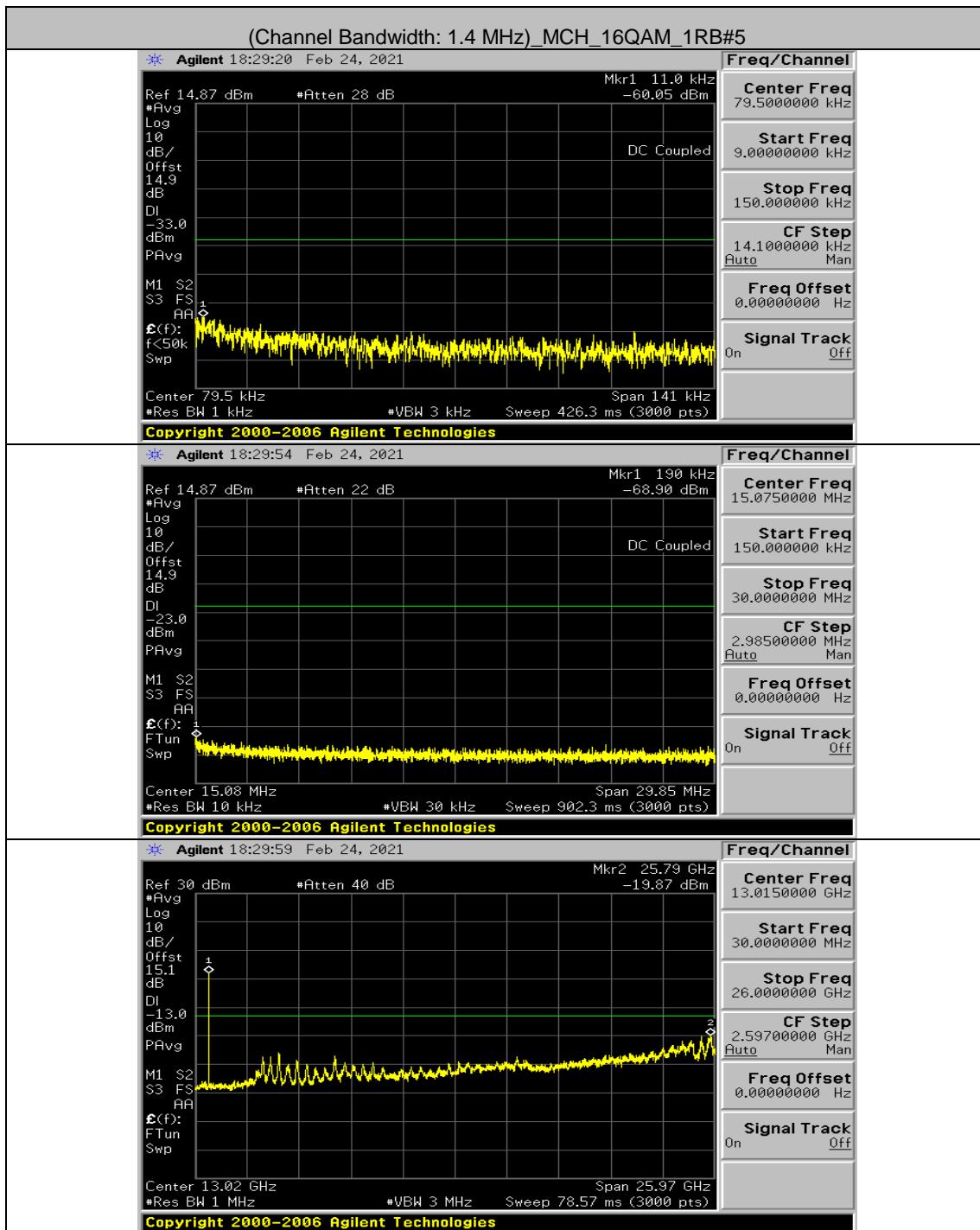


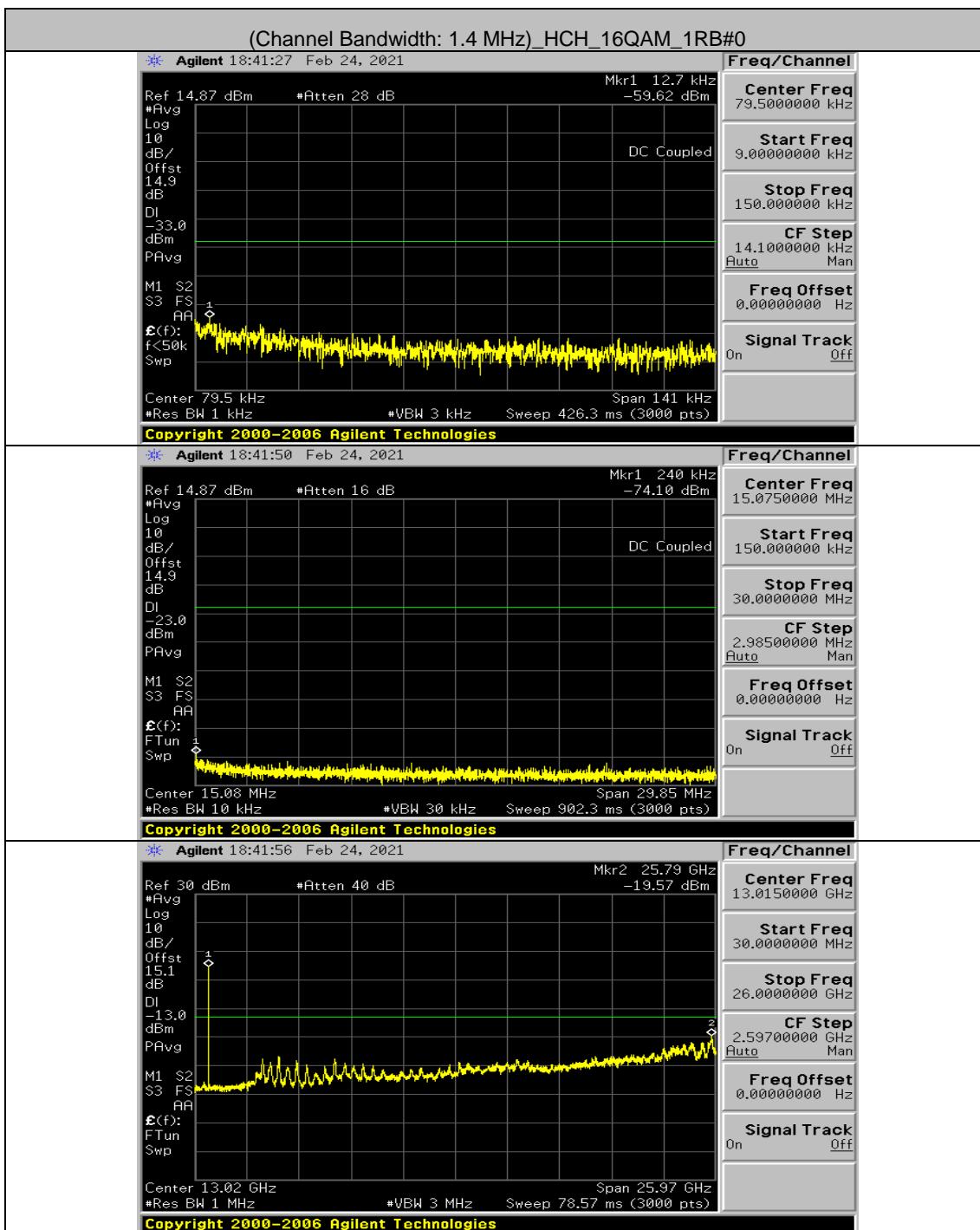


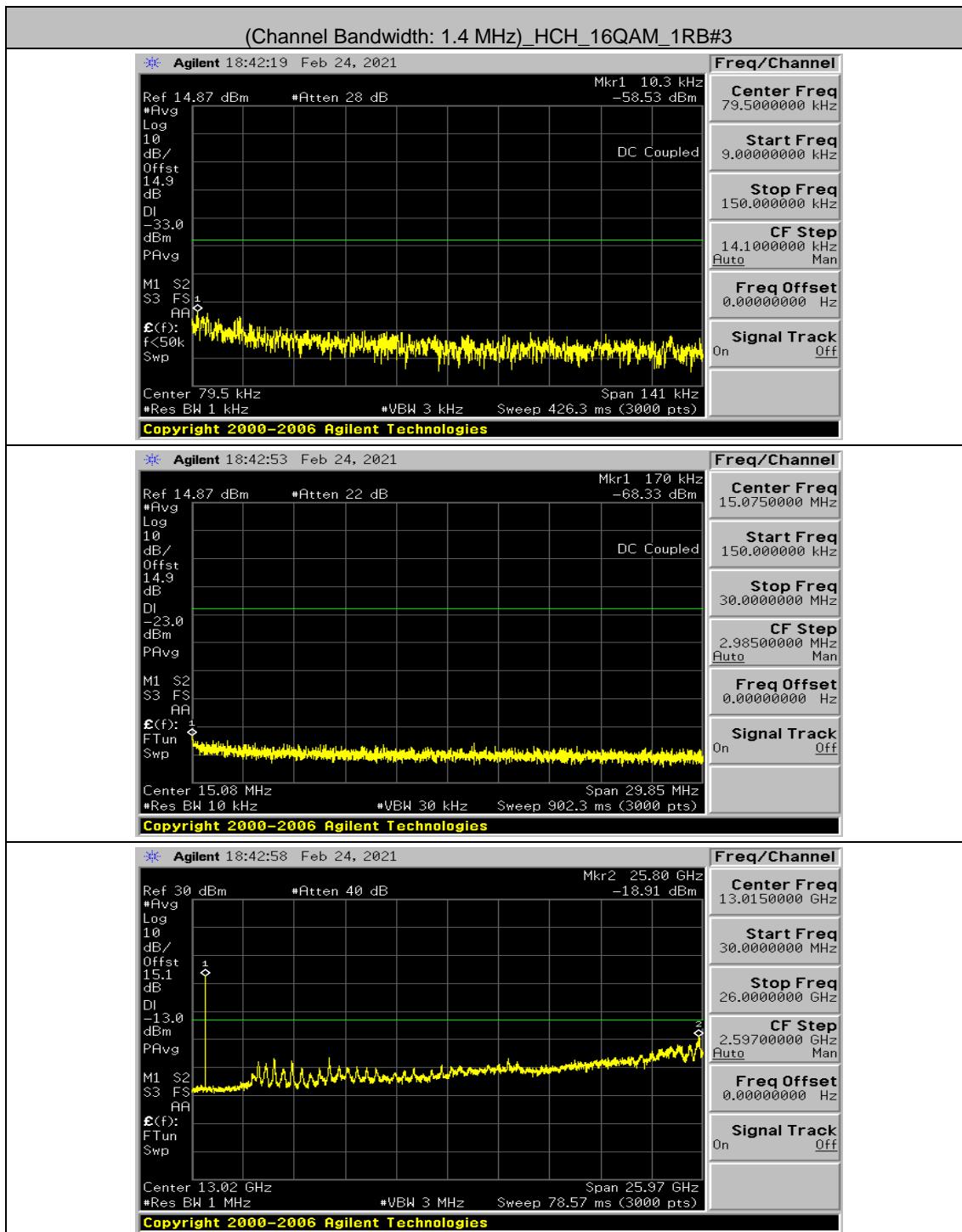


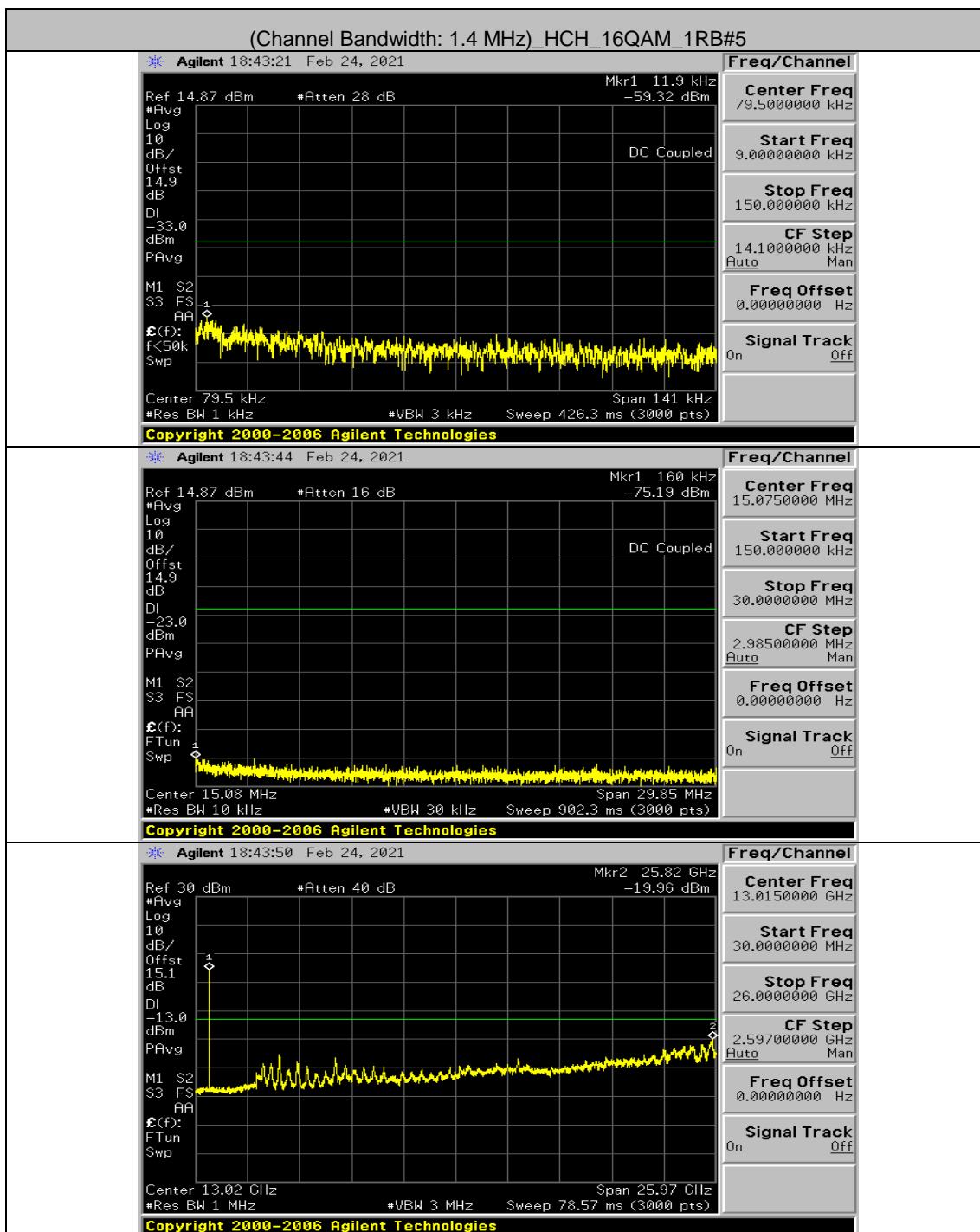


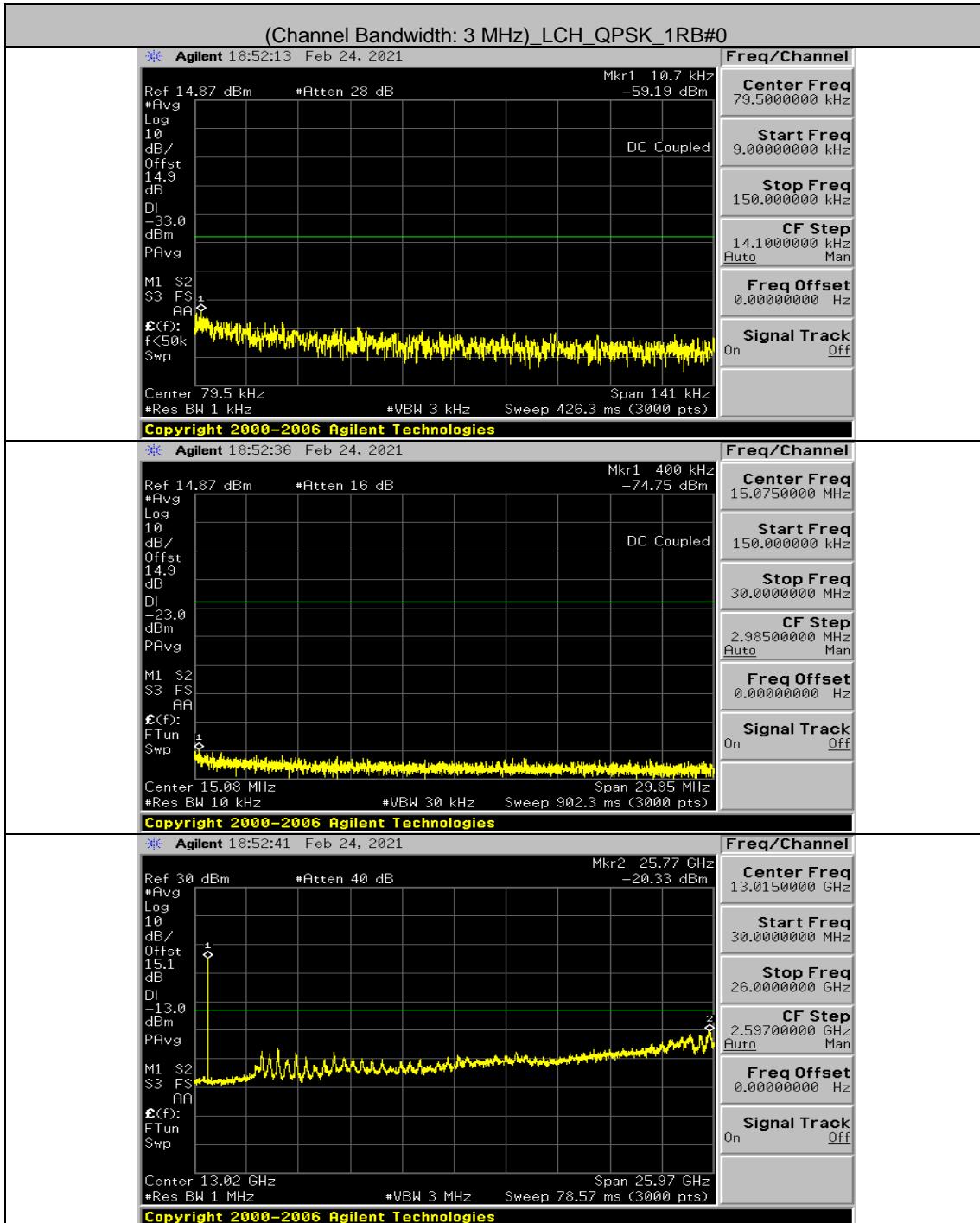


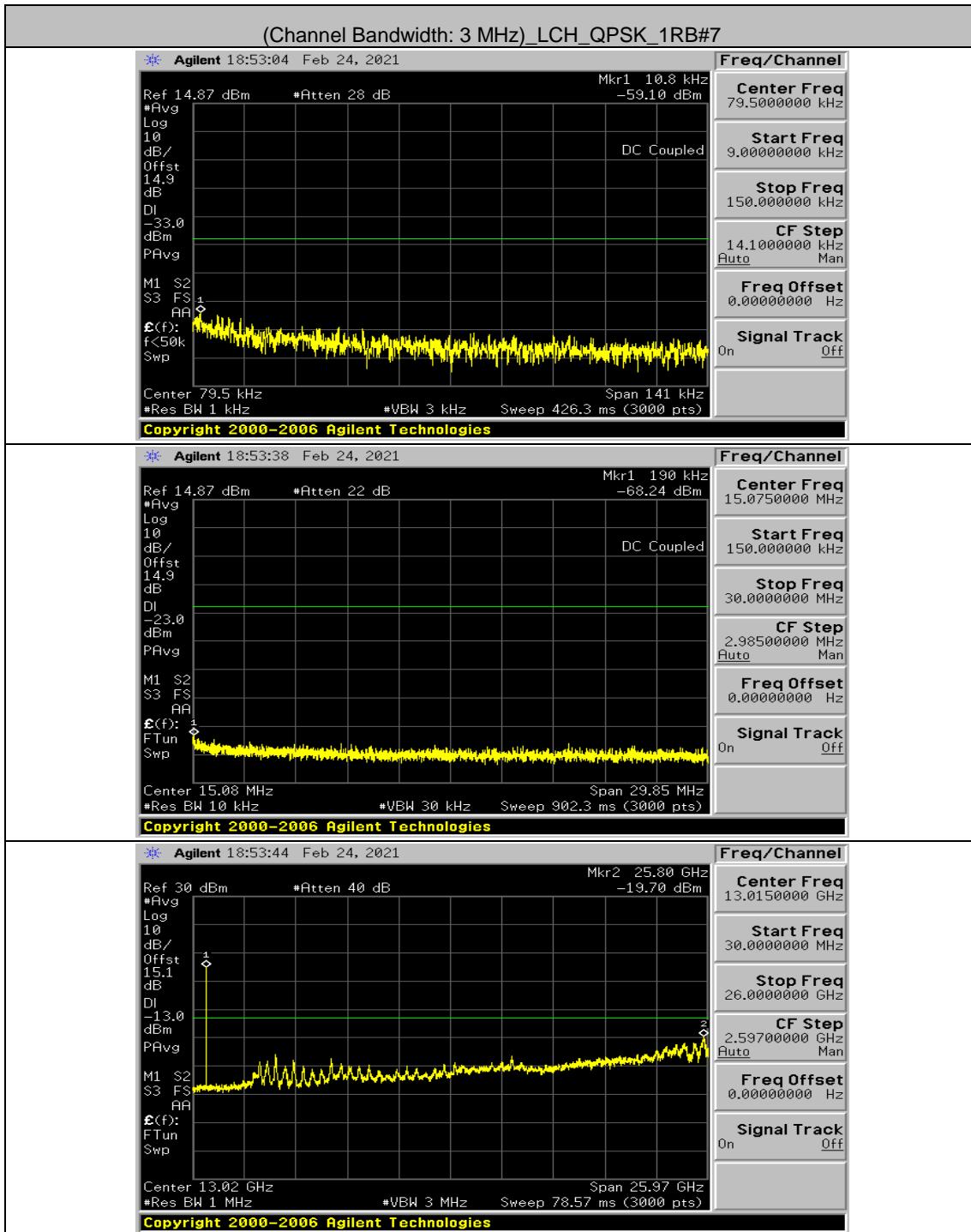


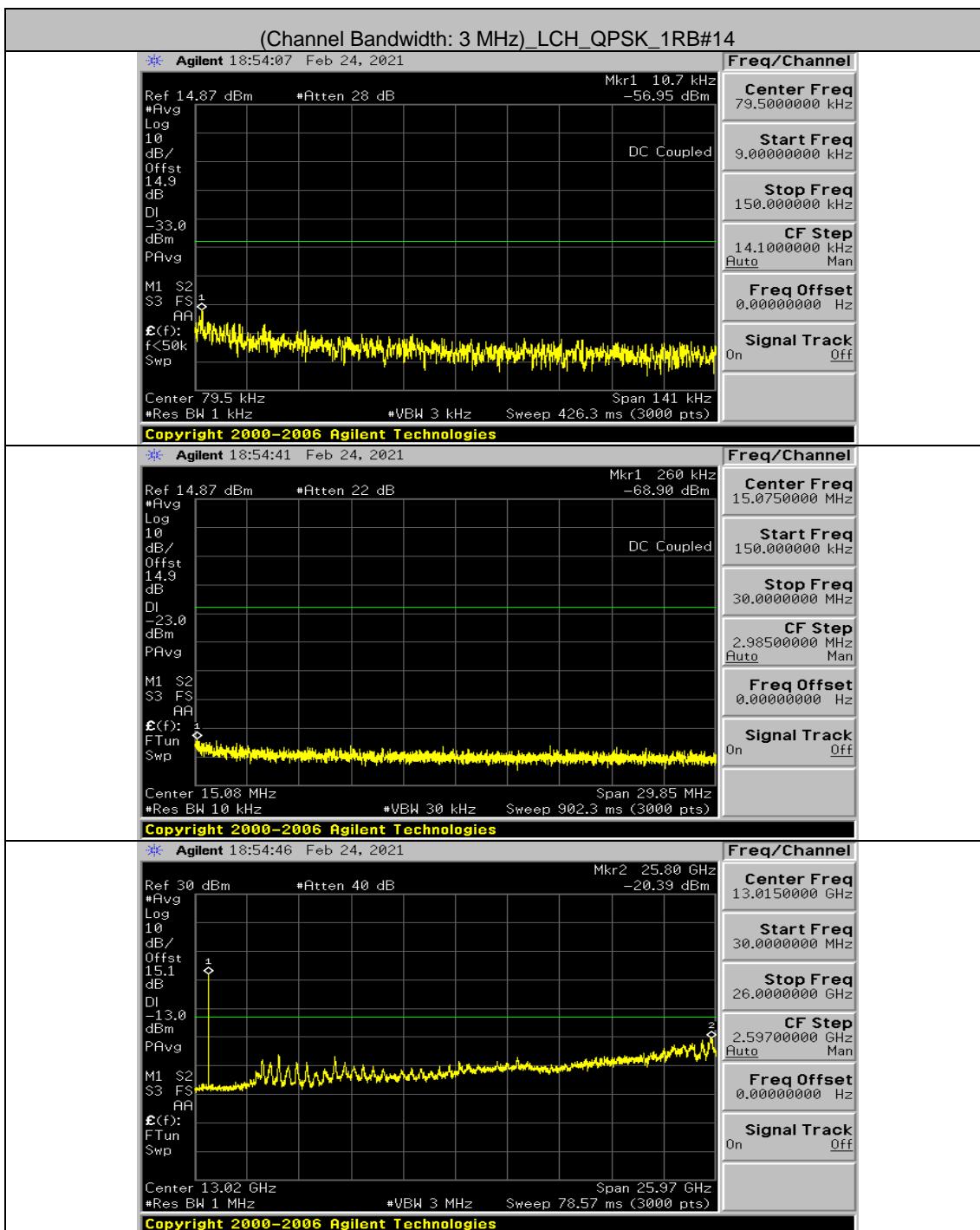


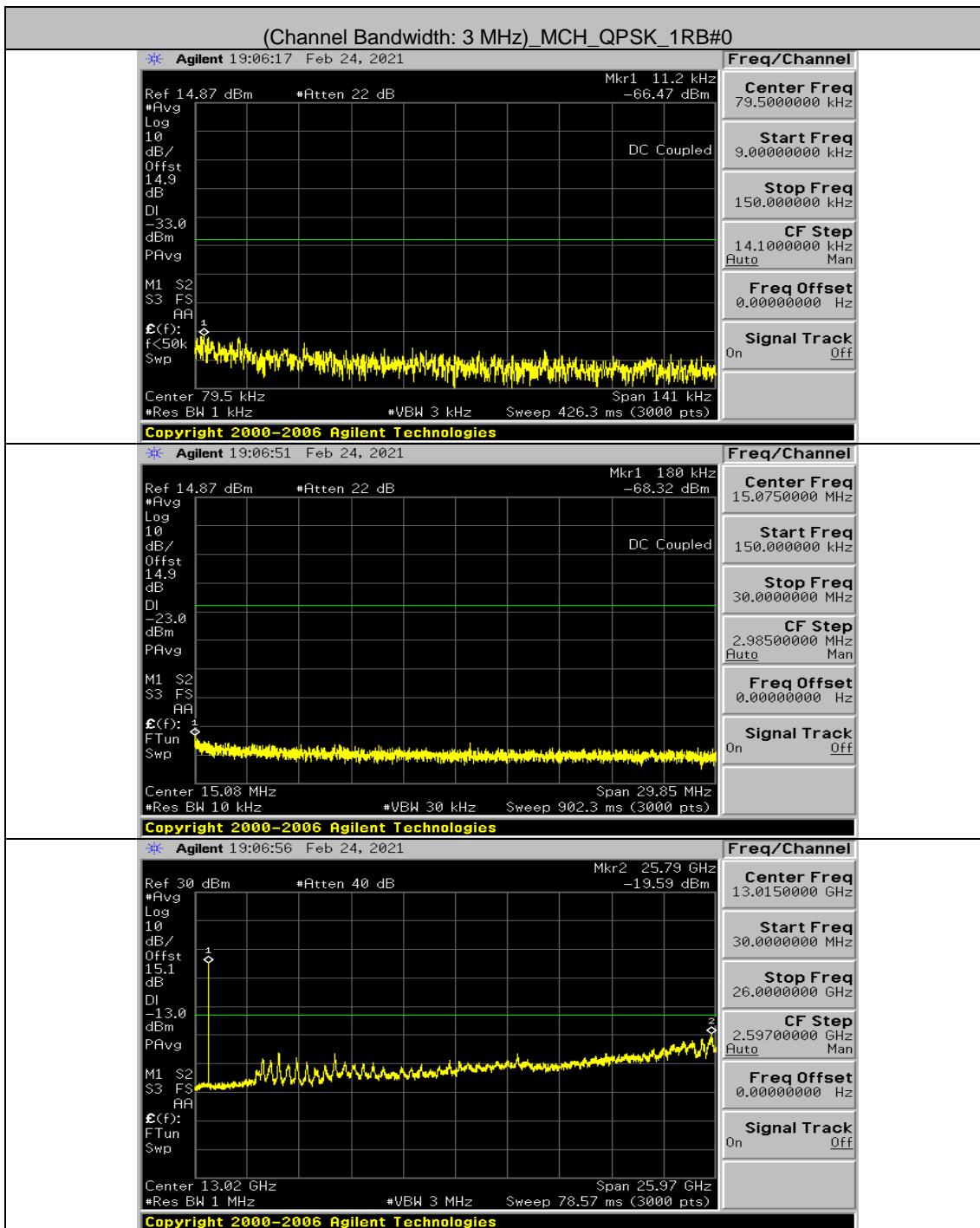




**Channel Bandwidth: 3 MHz**




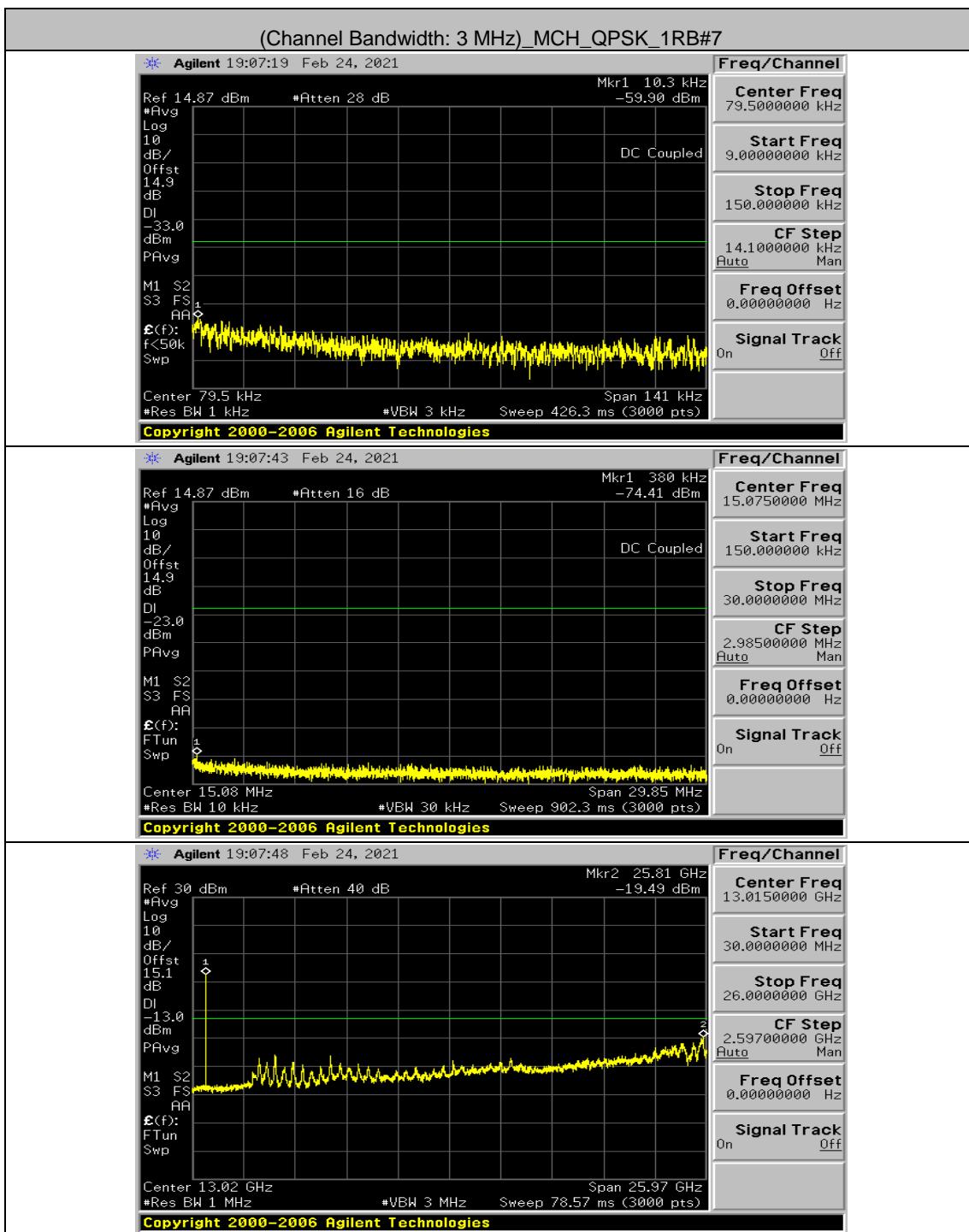


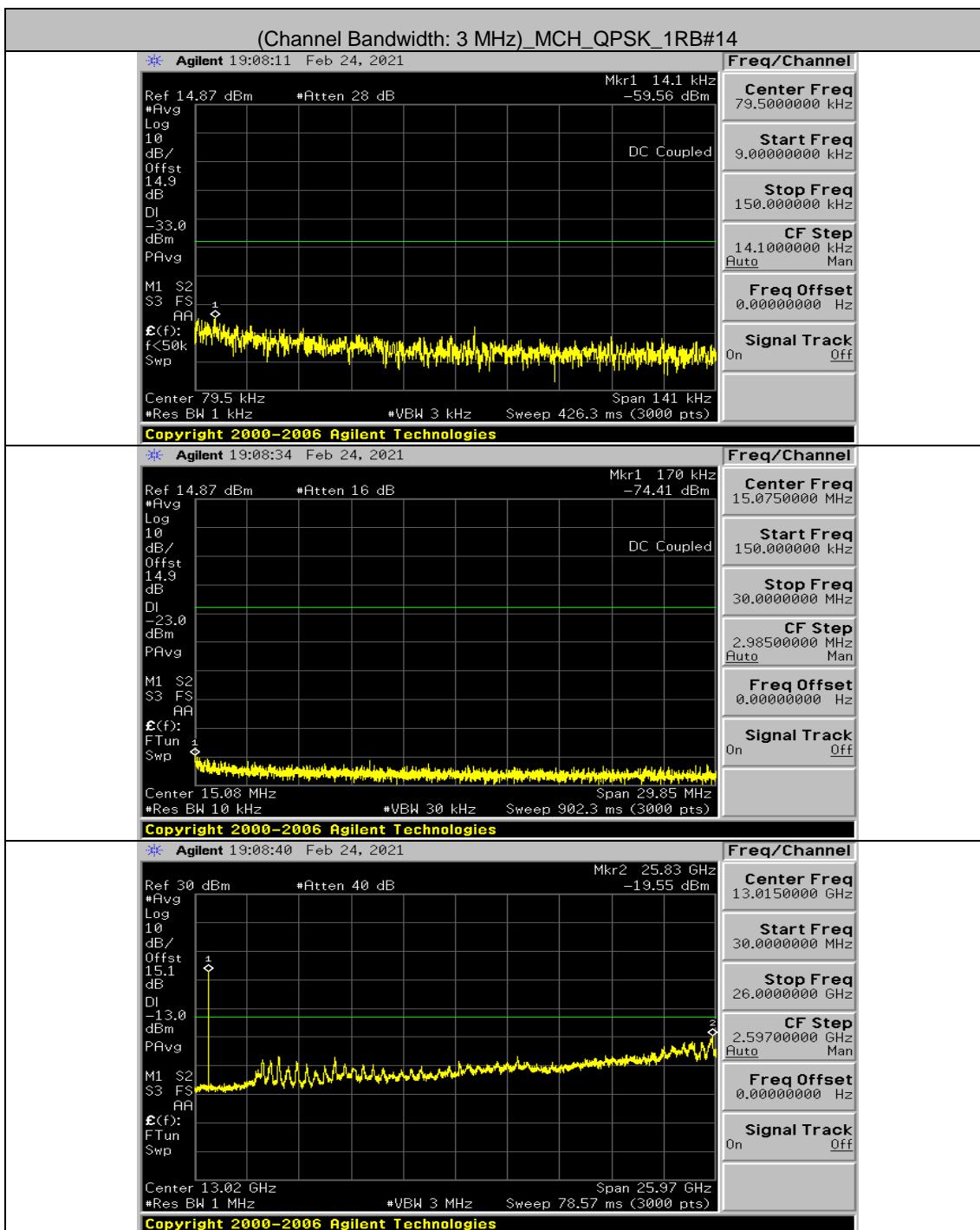


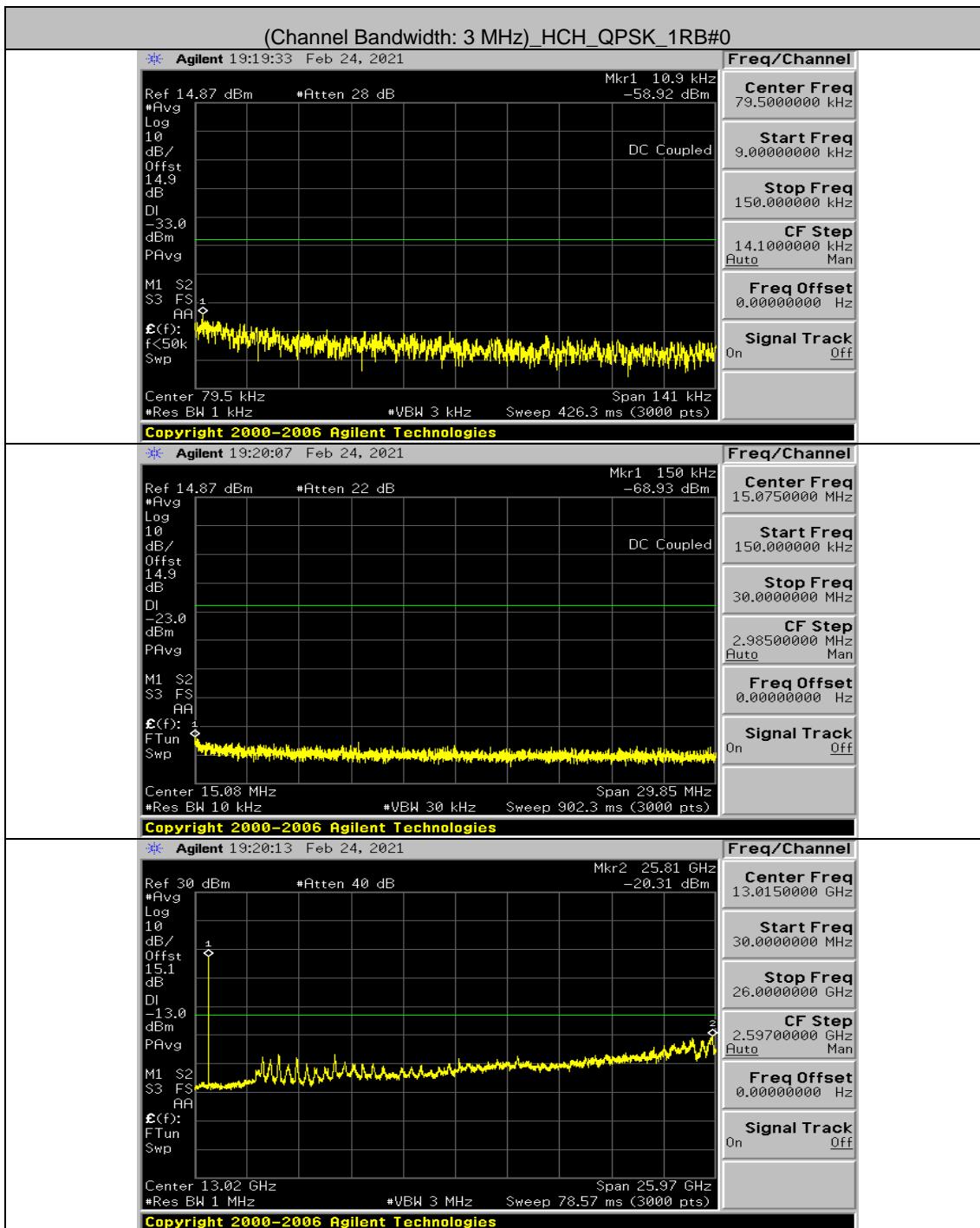


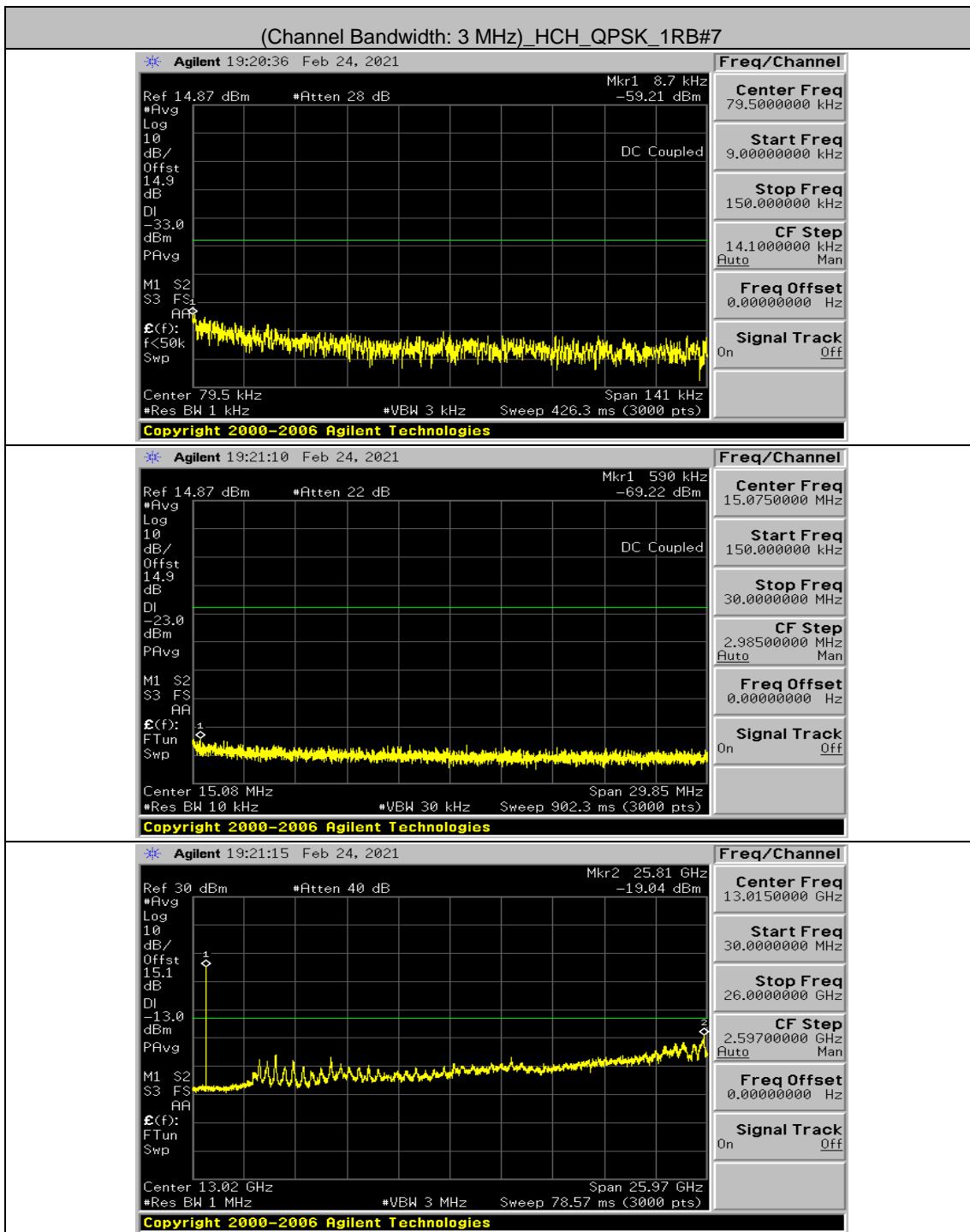
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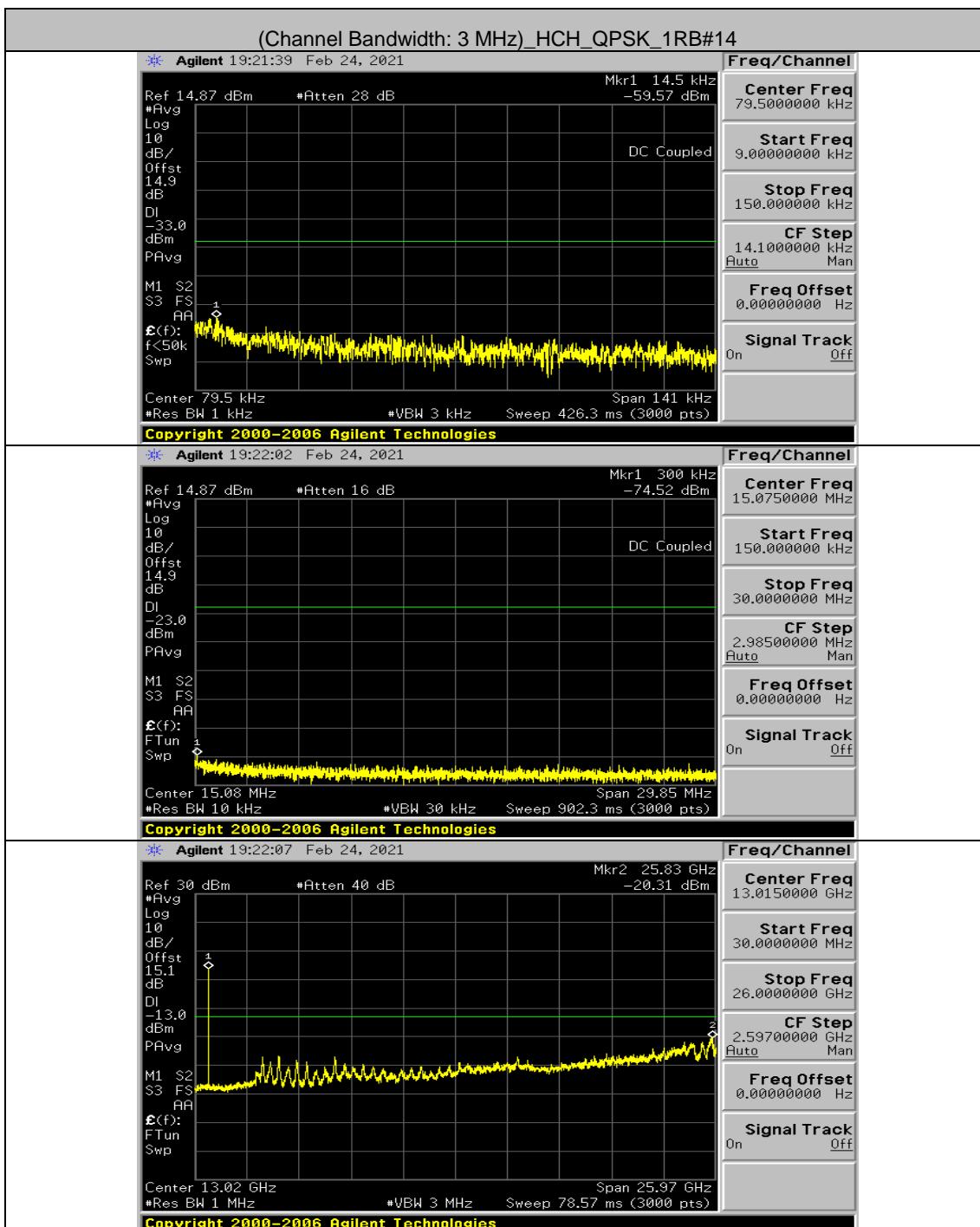
Report No.: CQASZ20190200042E-05







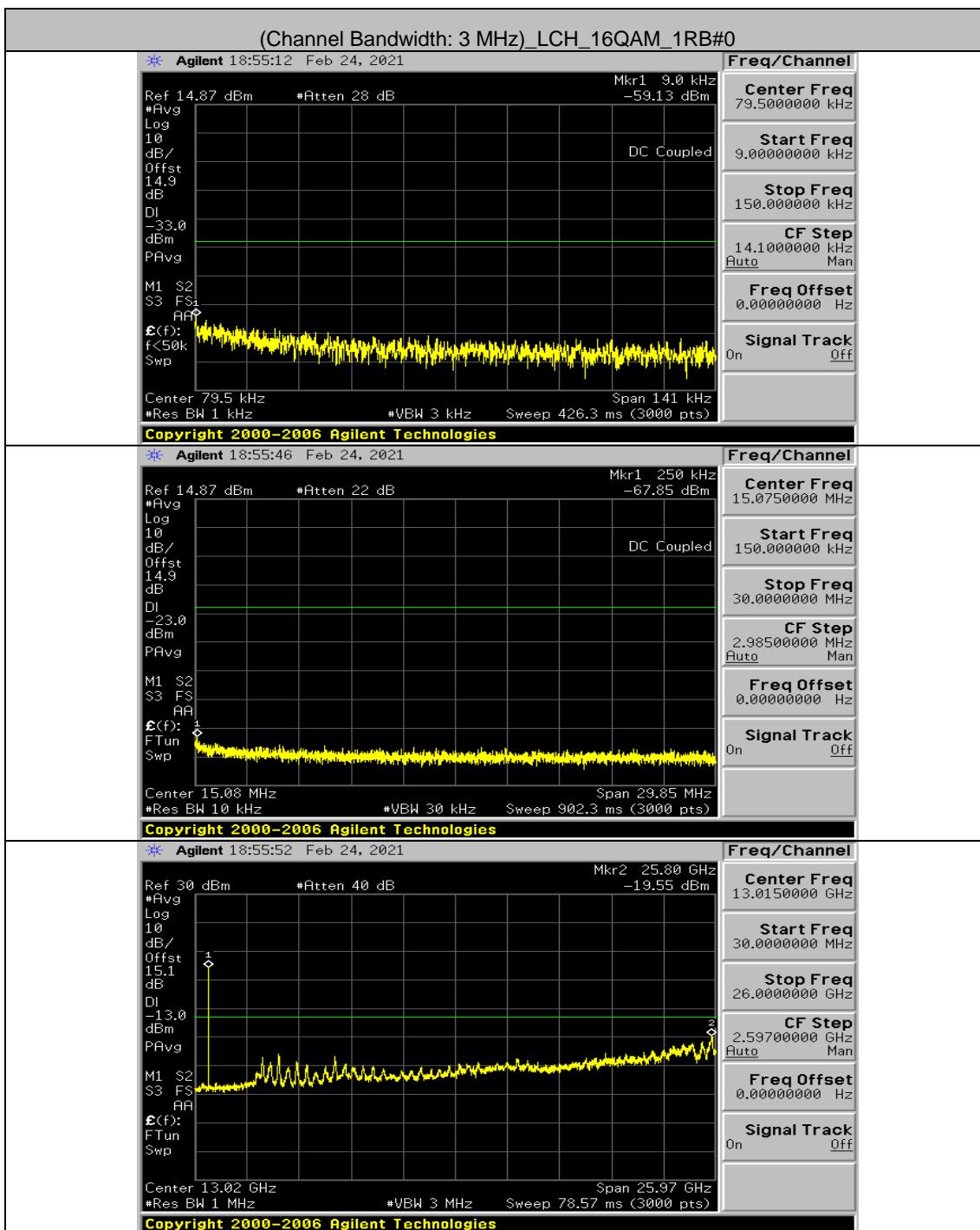


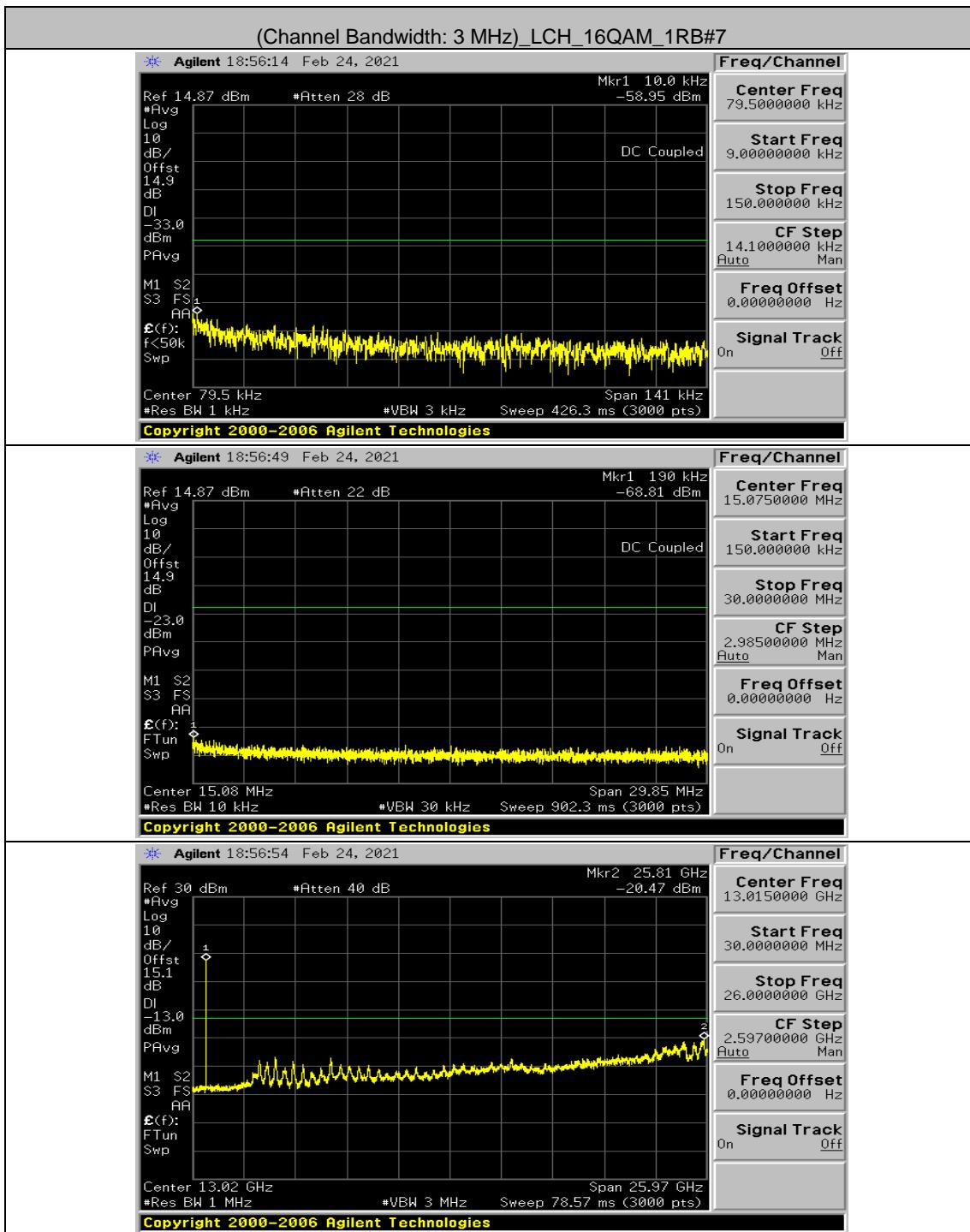


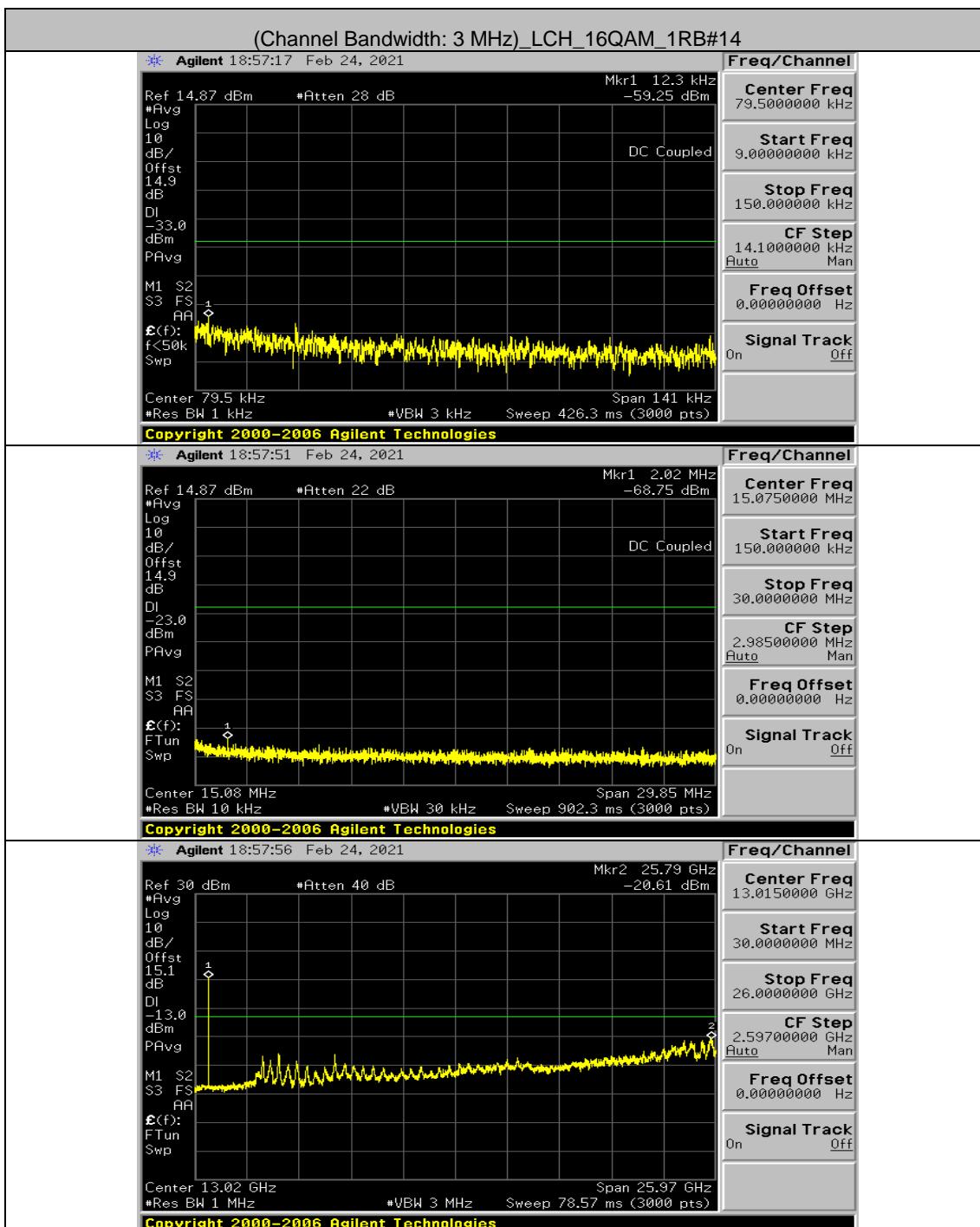


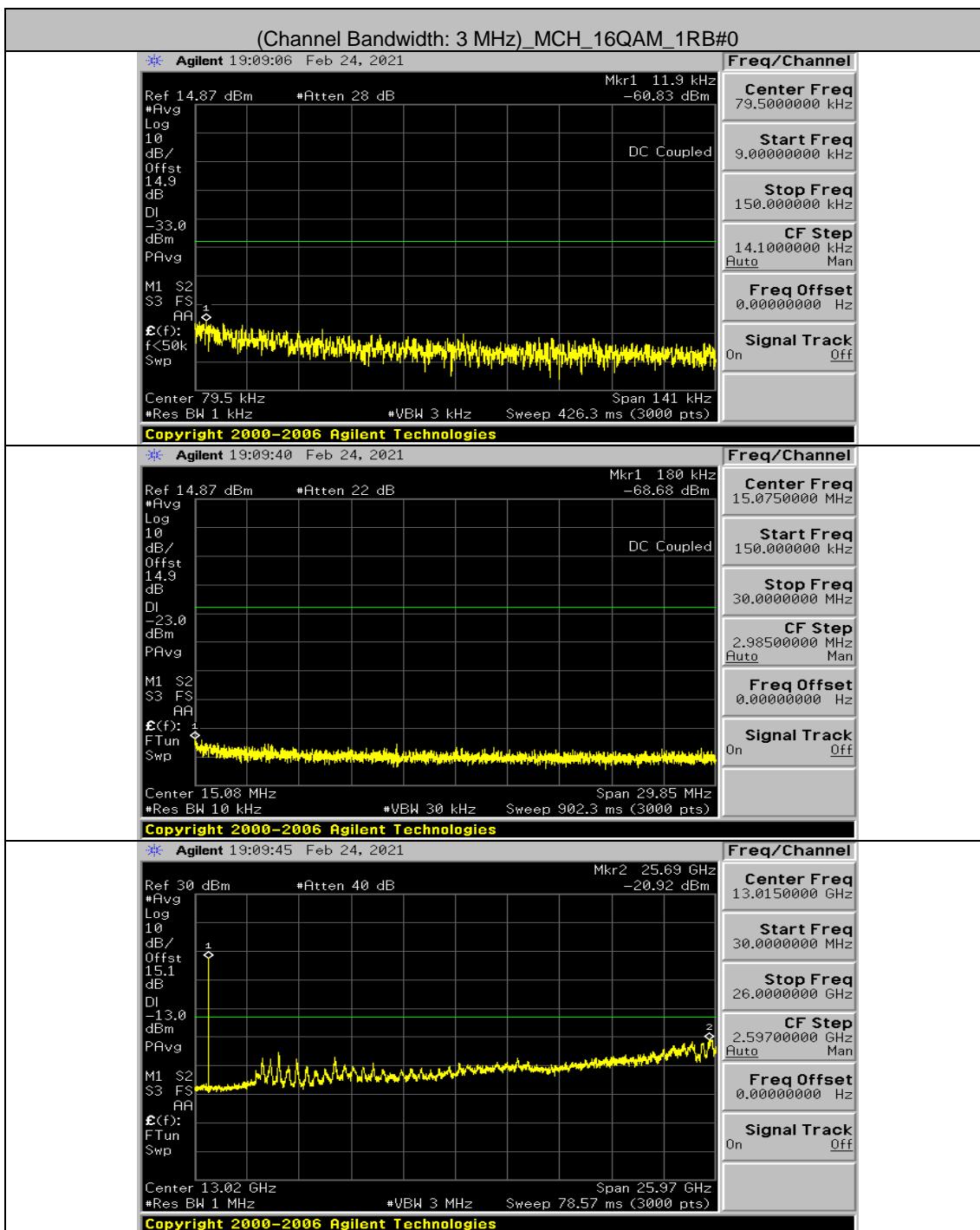
Shenzhen Huaxia Testing Technology Co., Ltd

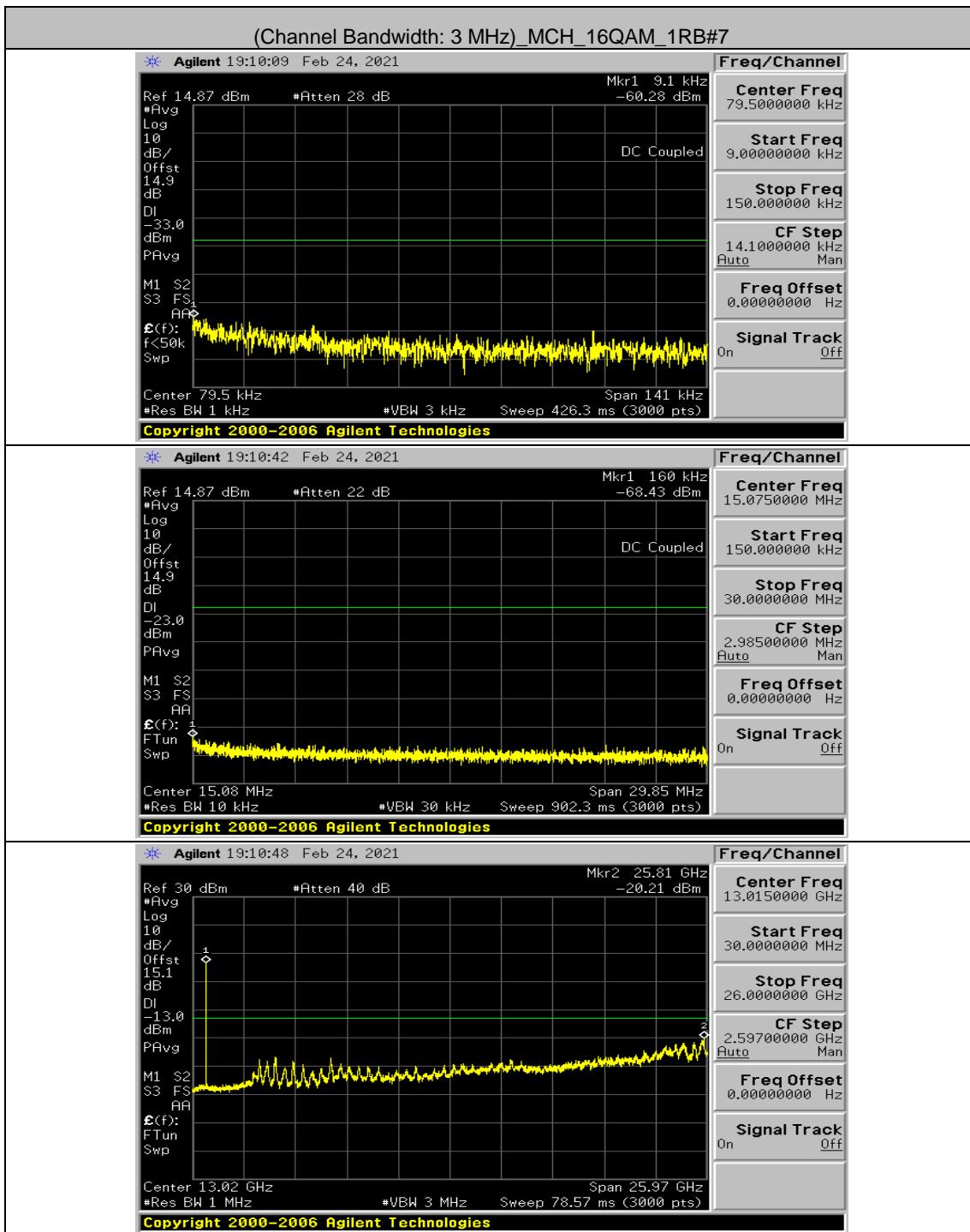
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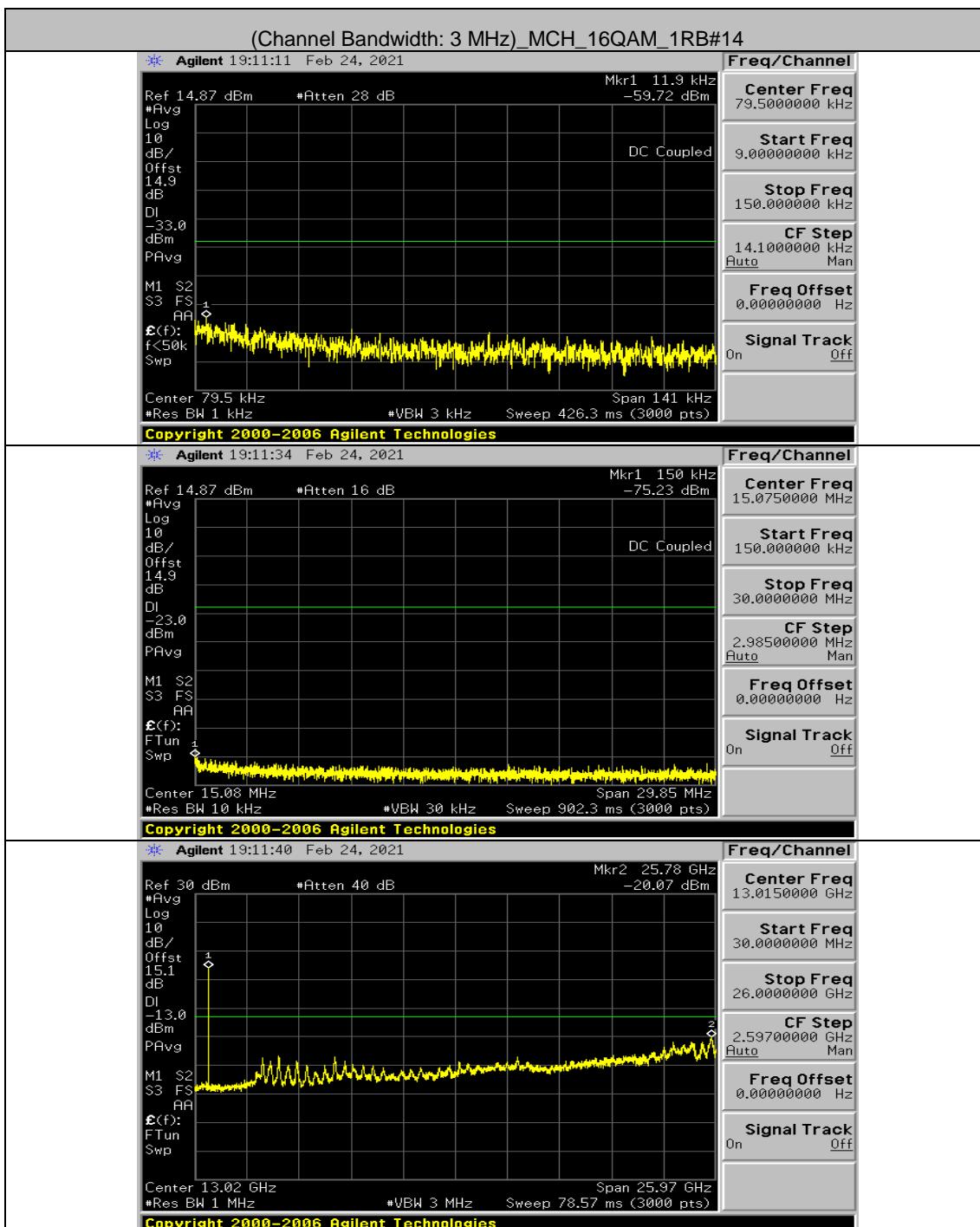


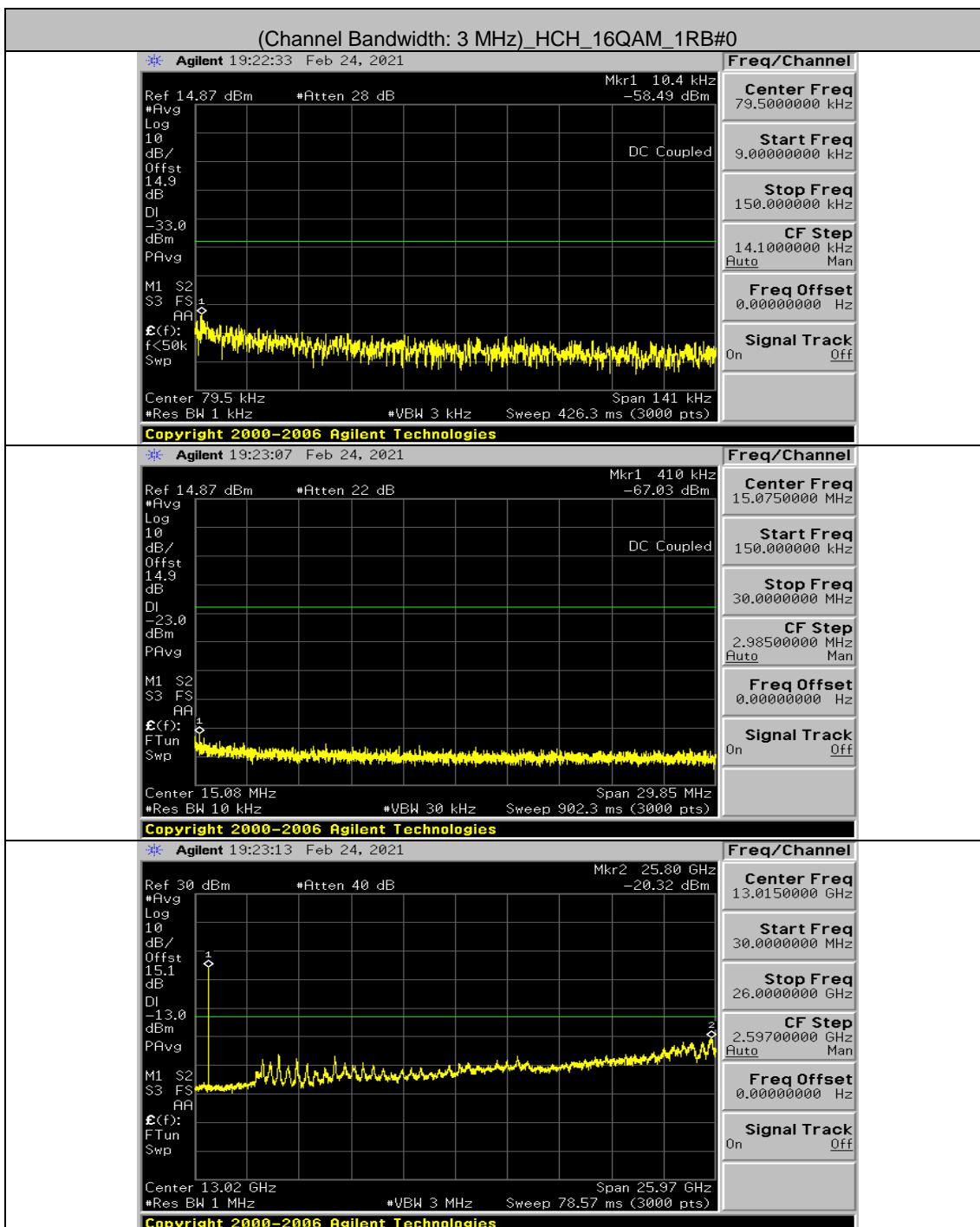


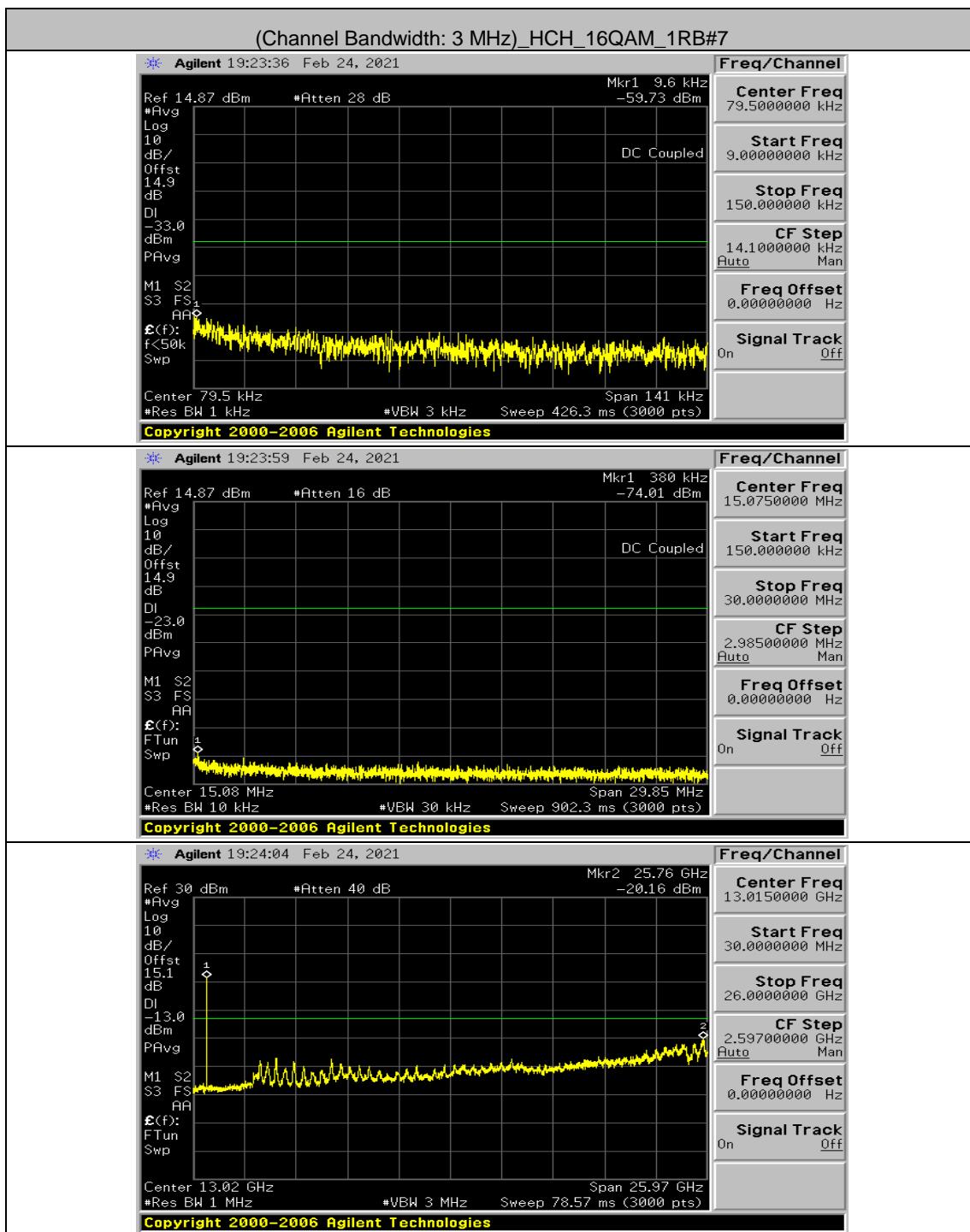


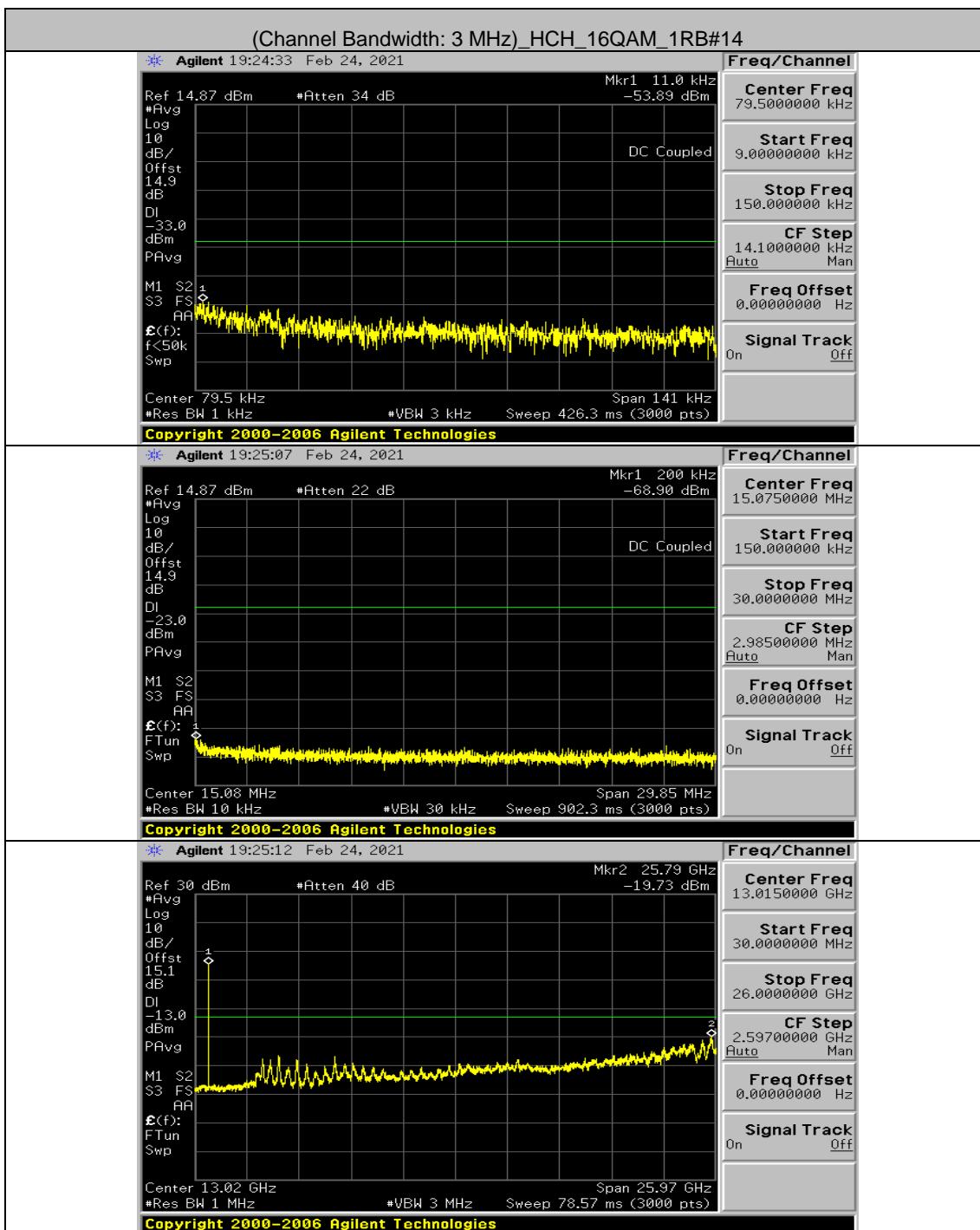




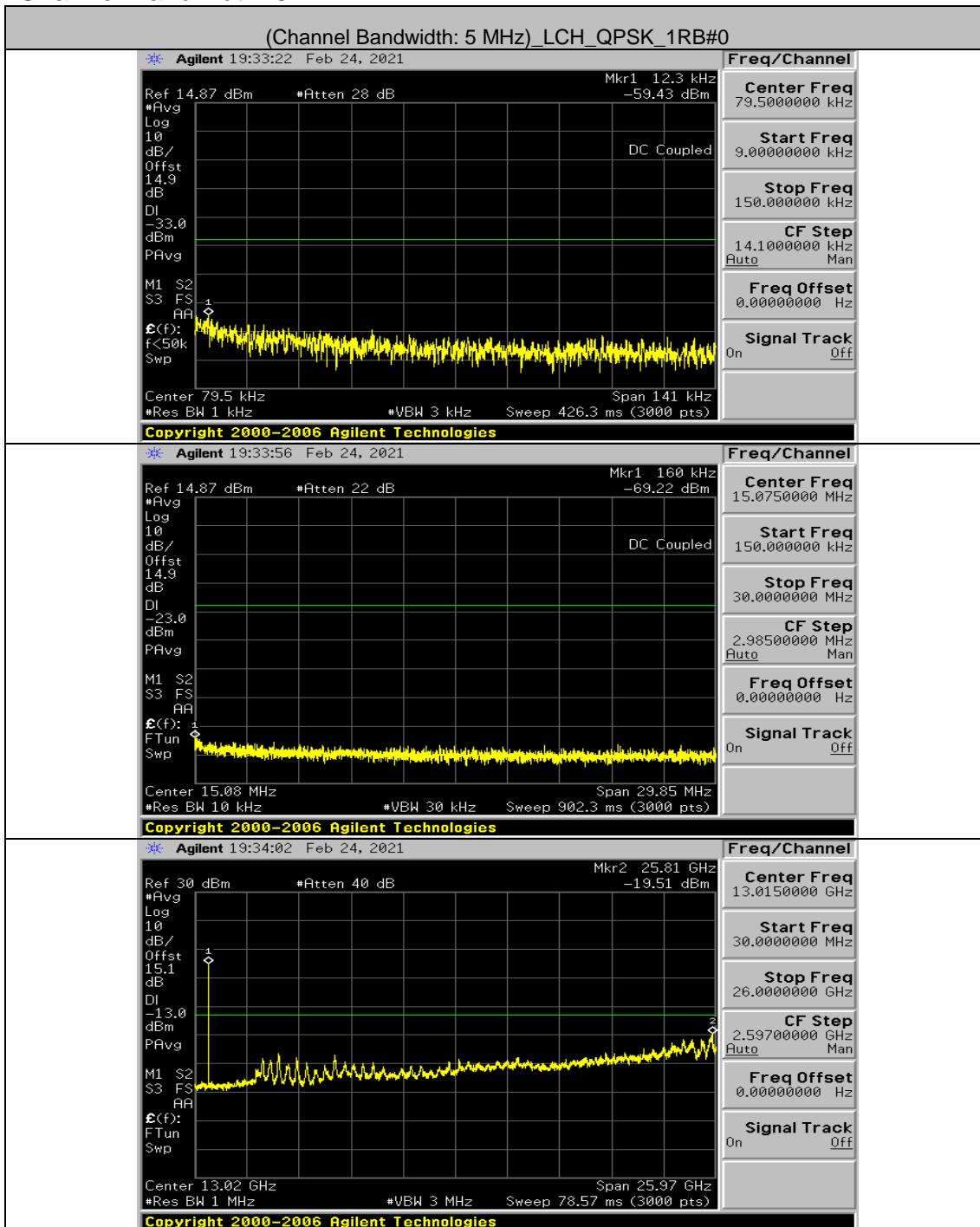


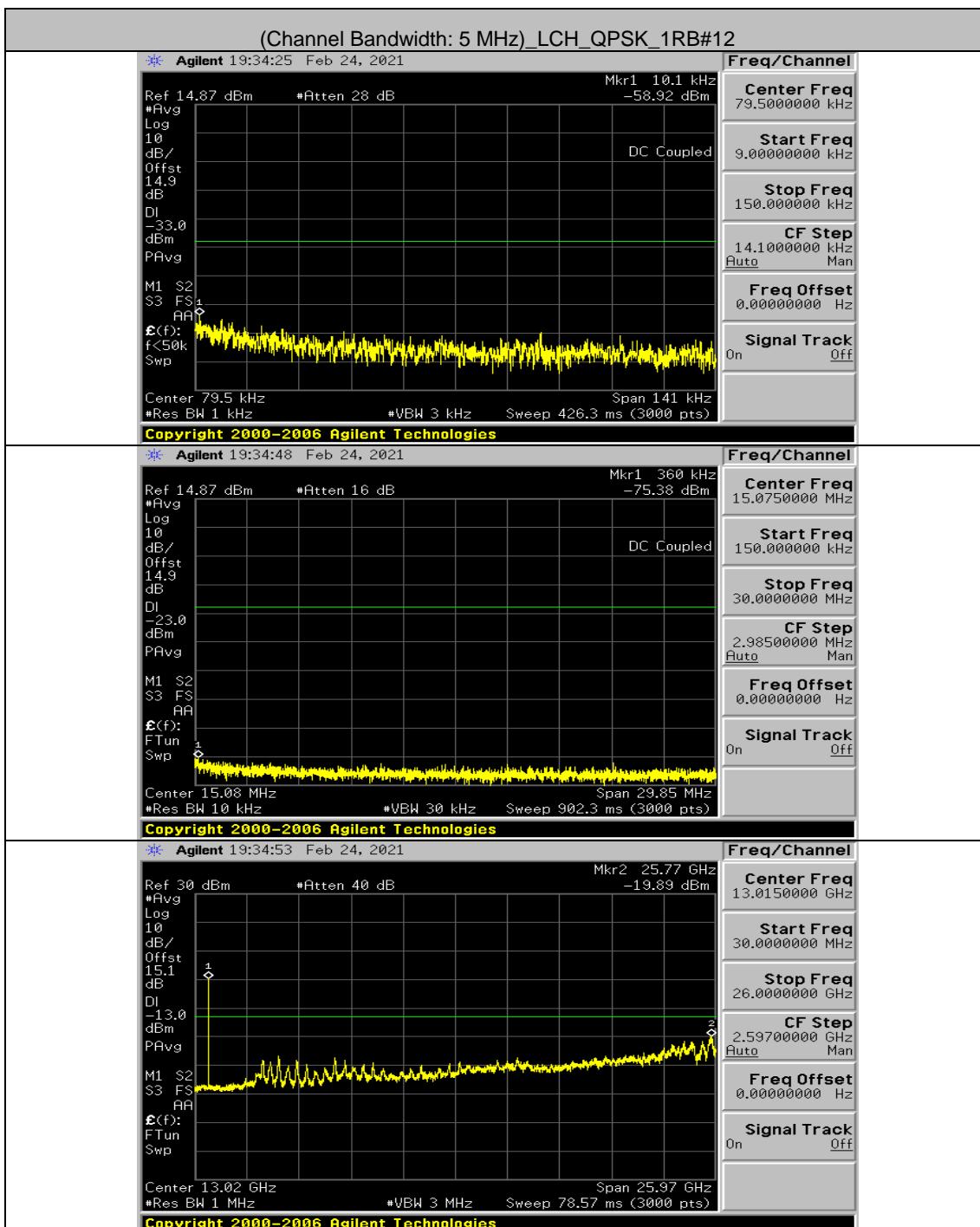


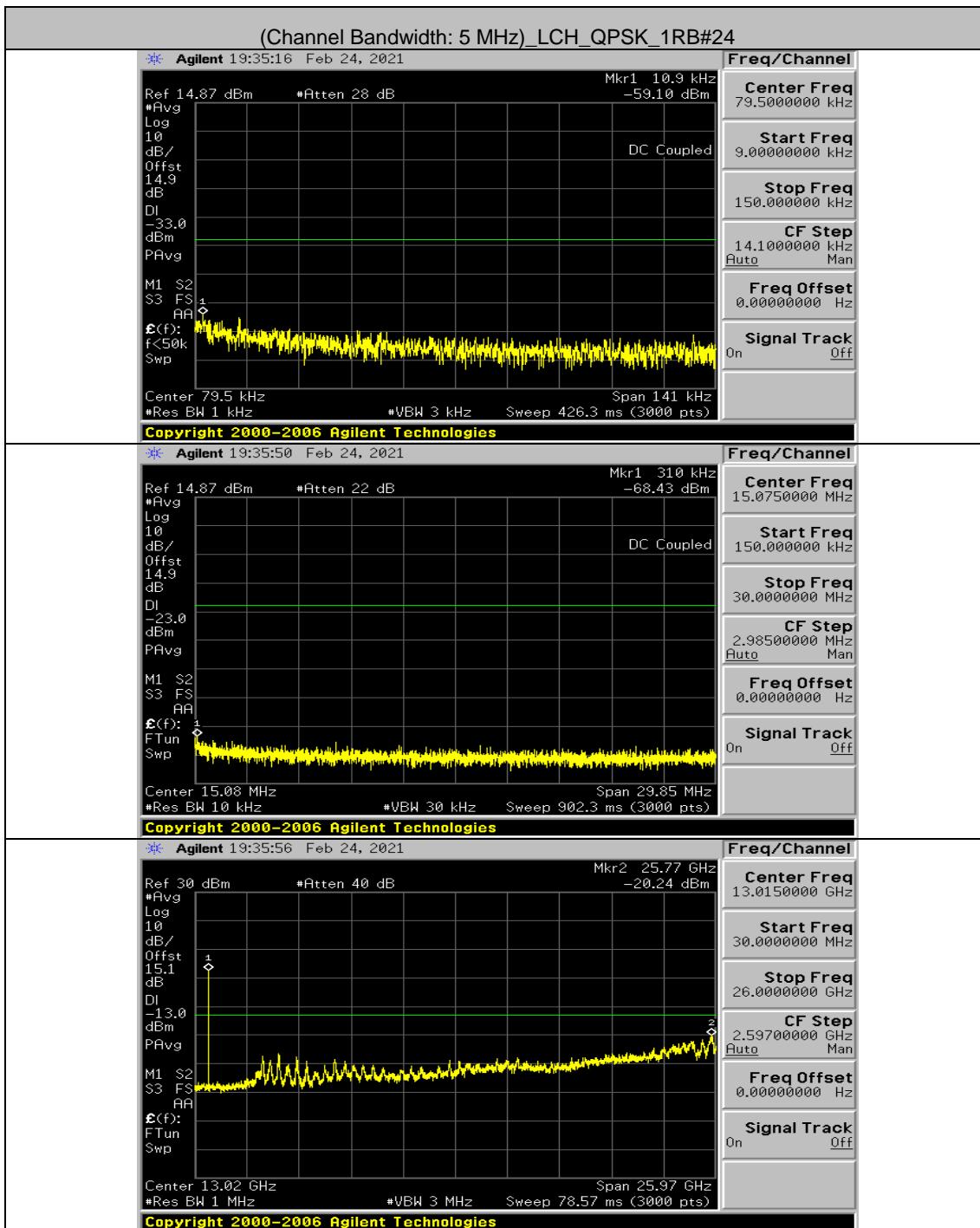


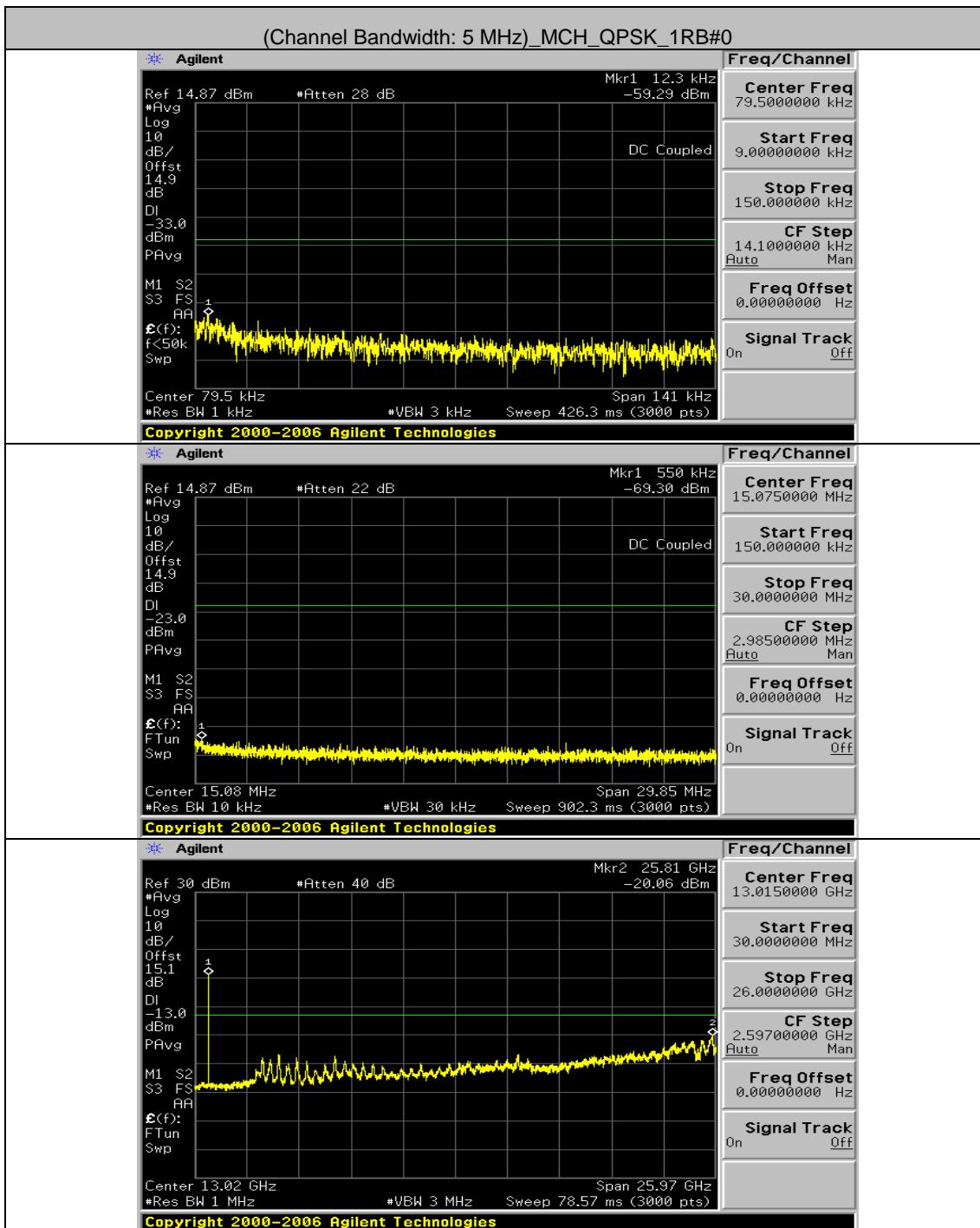


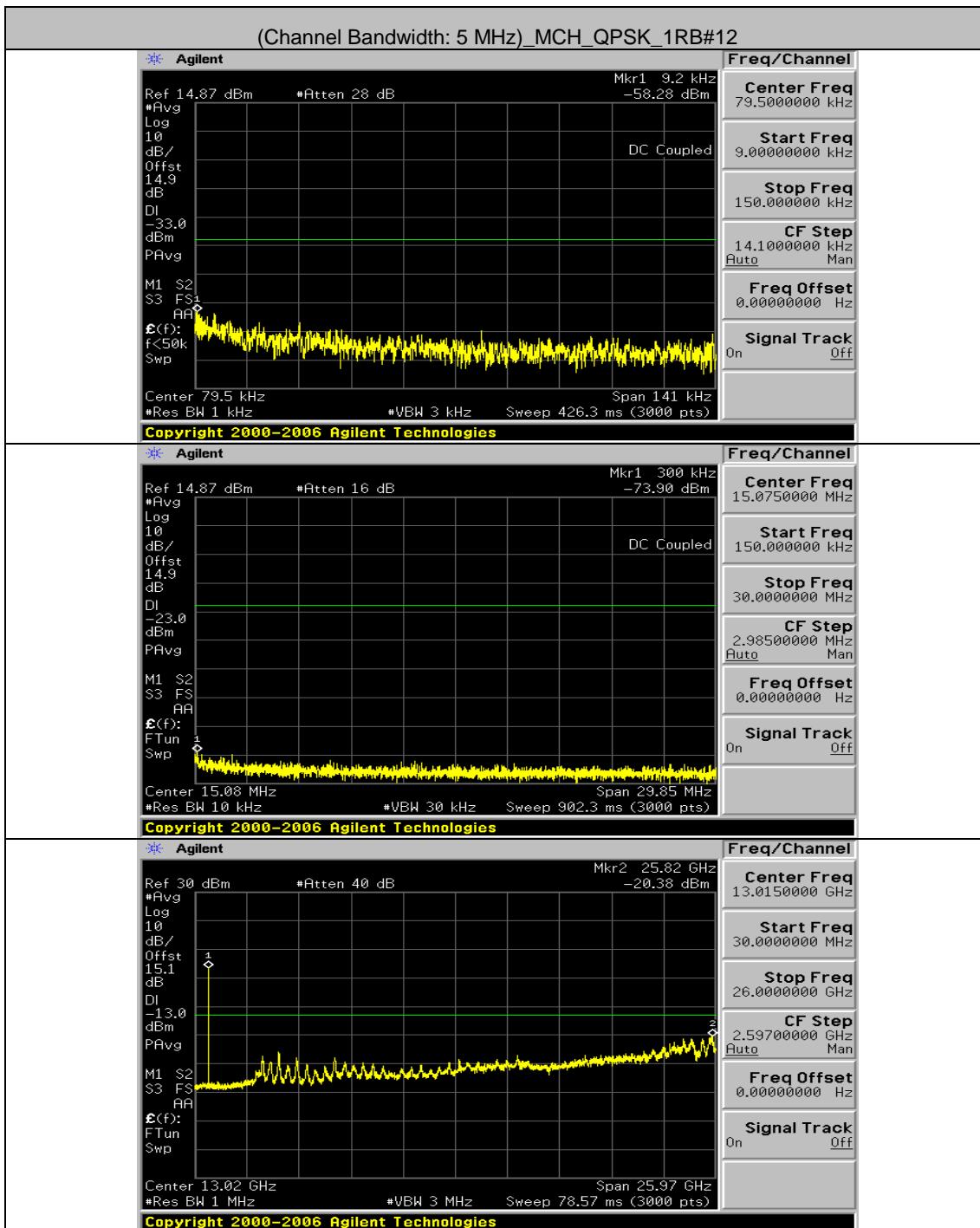
Channel Bandwidth: 5 MHz

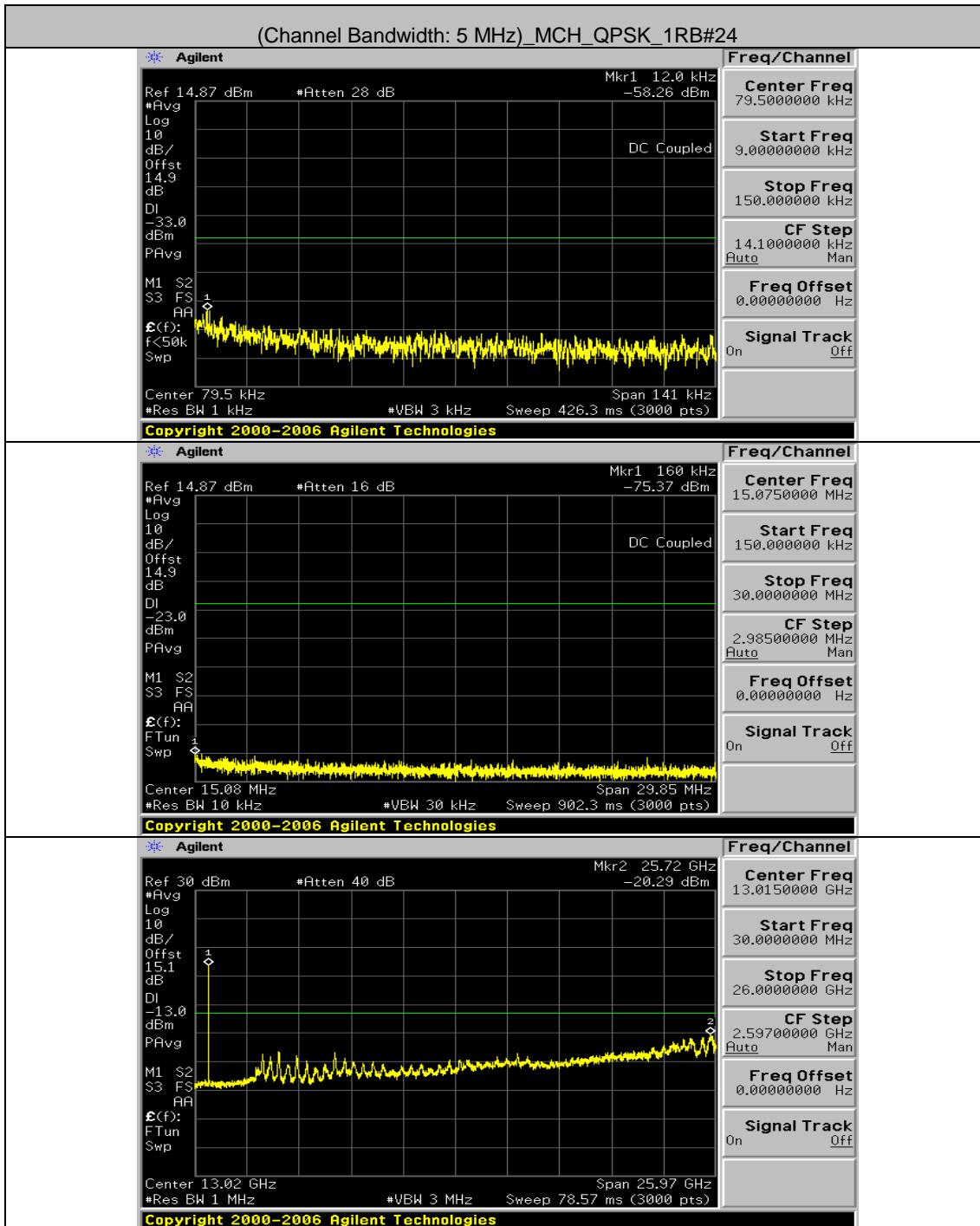


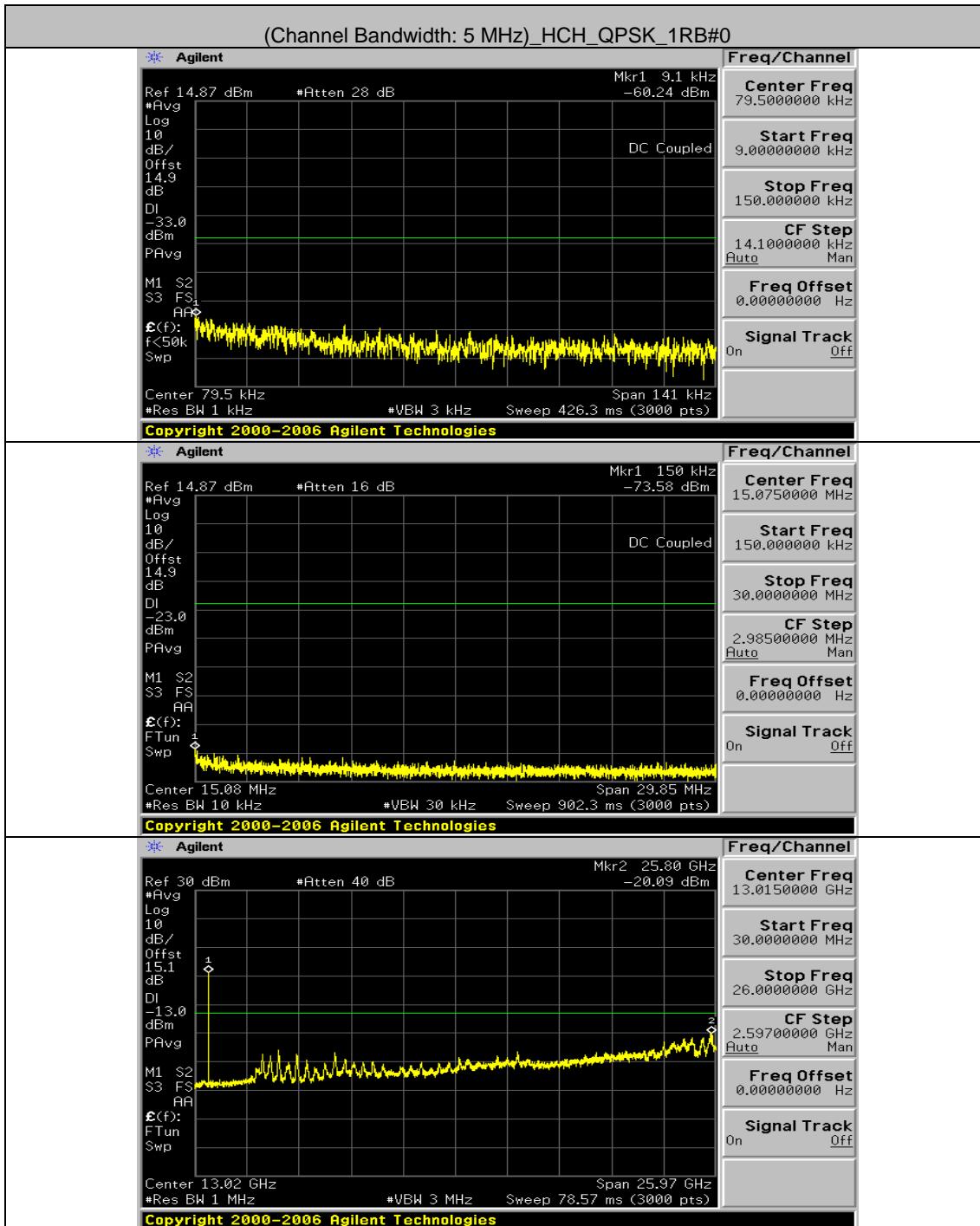


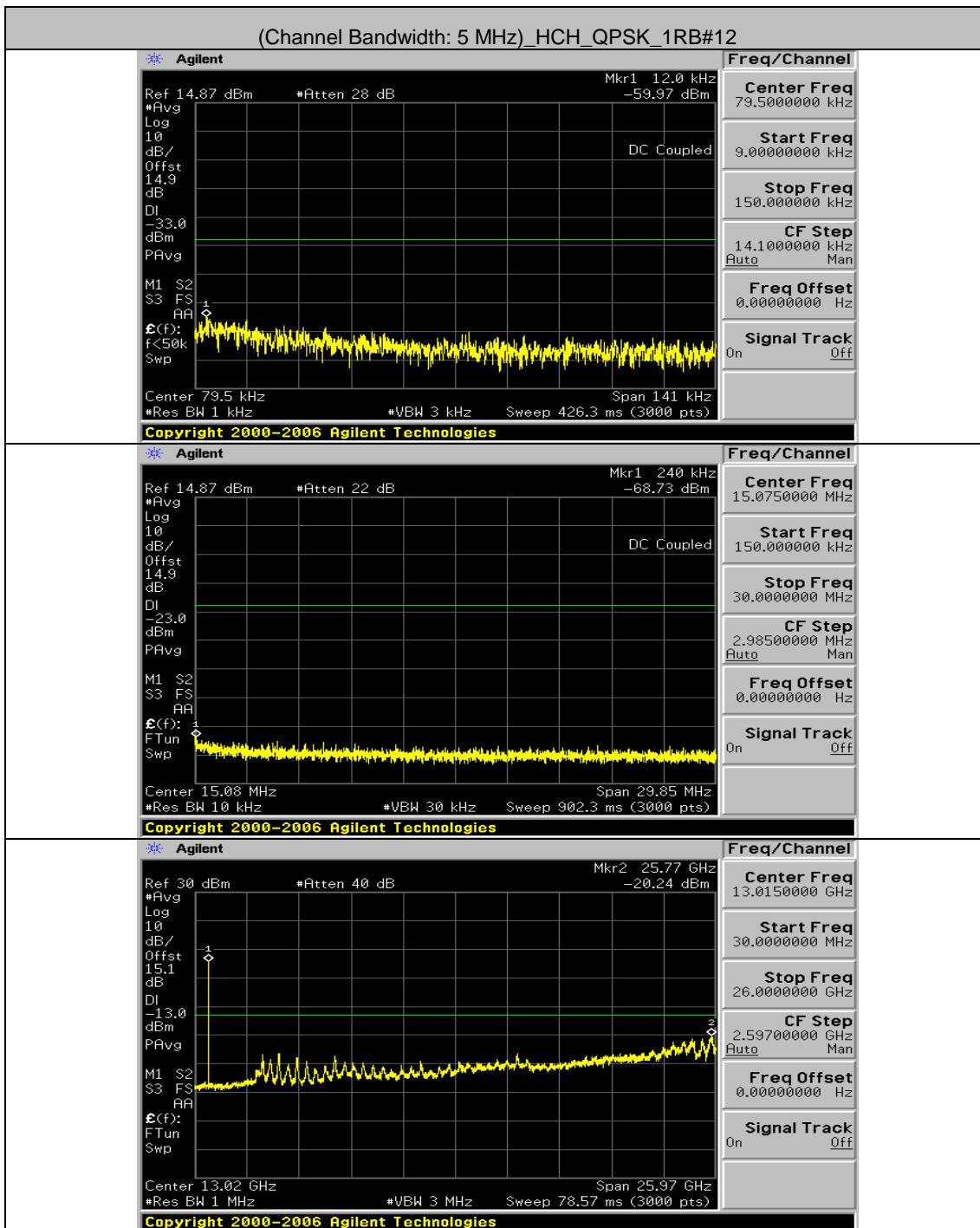


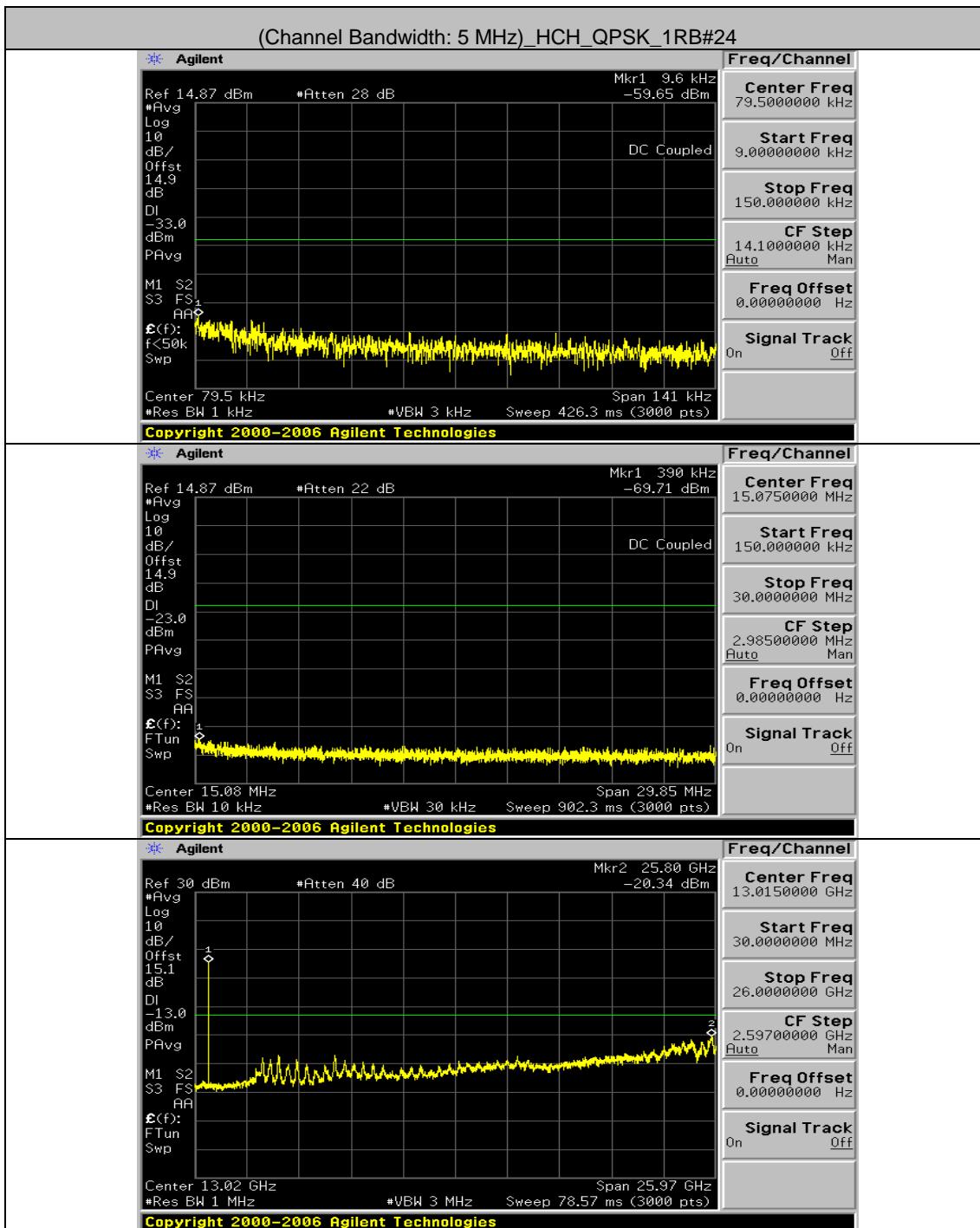


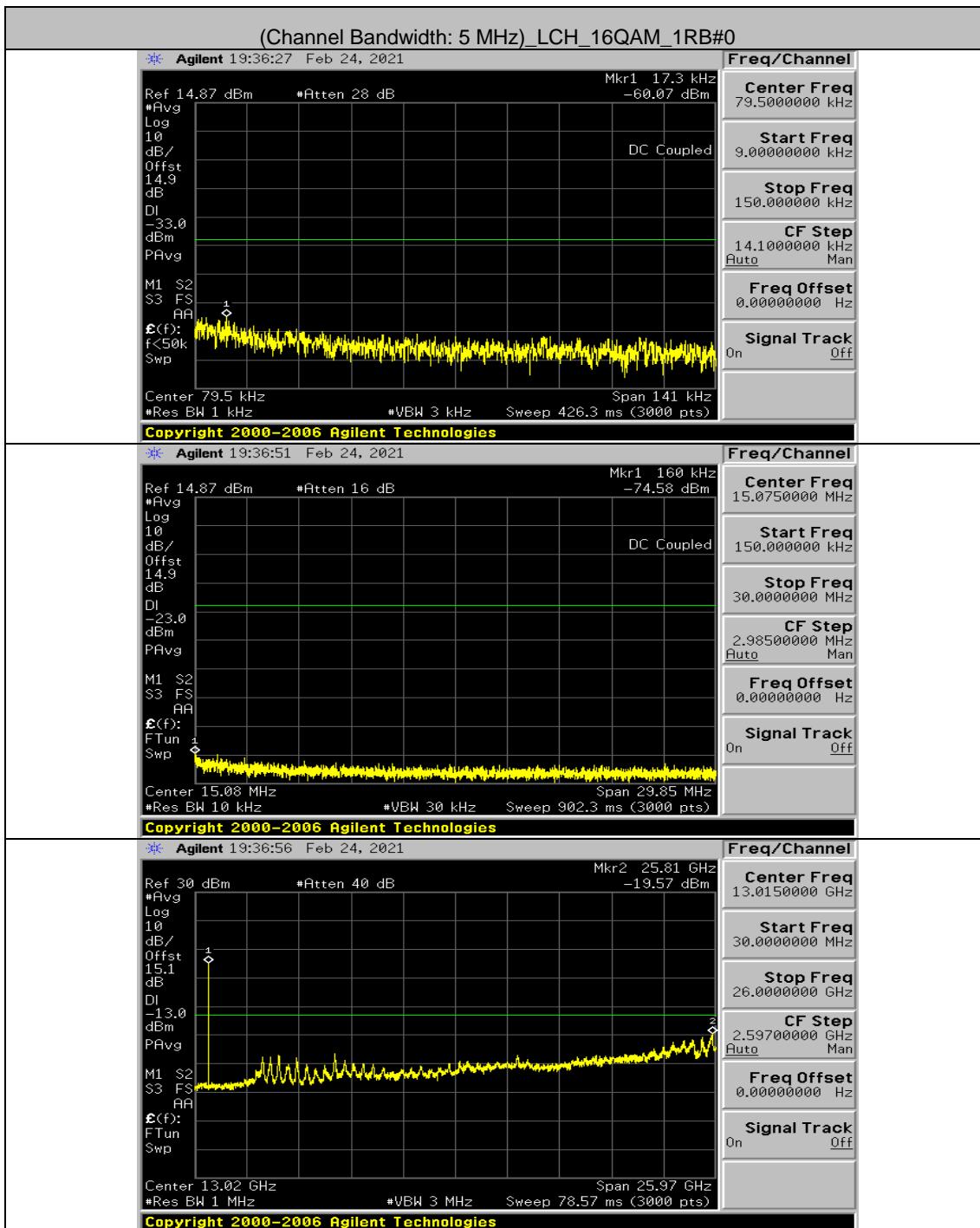


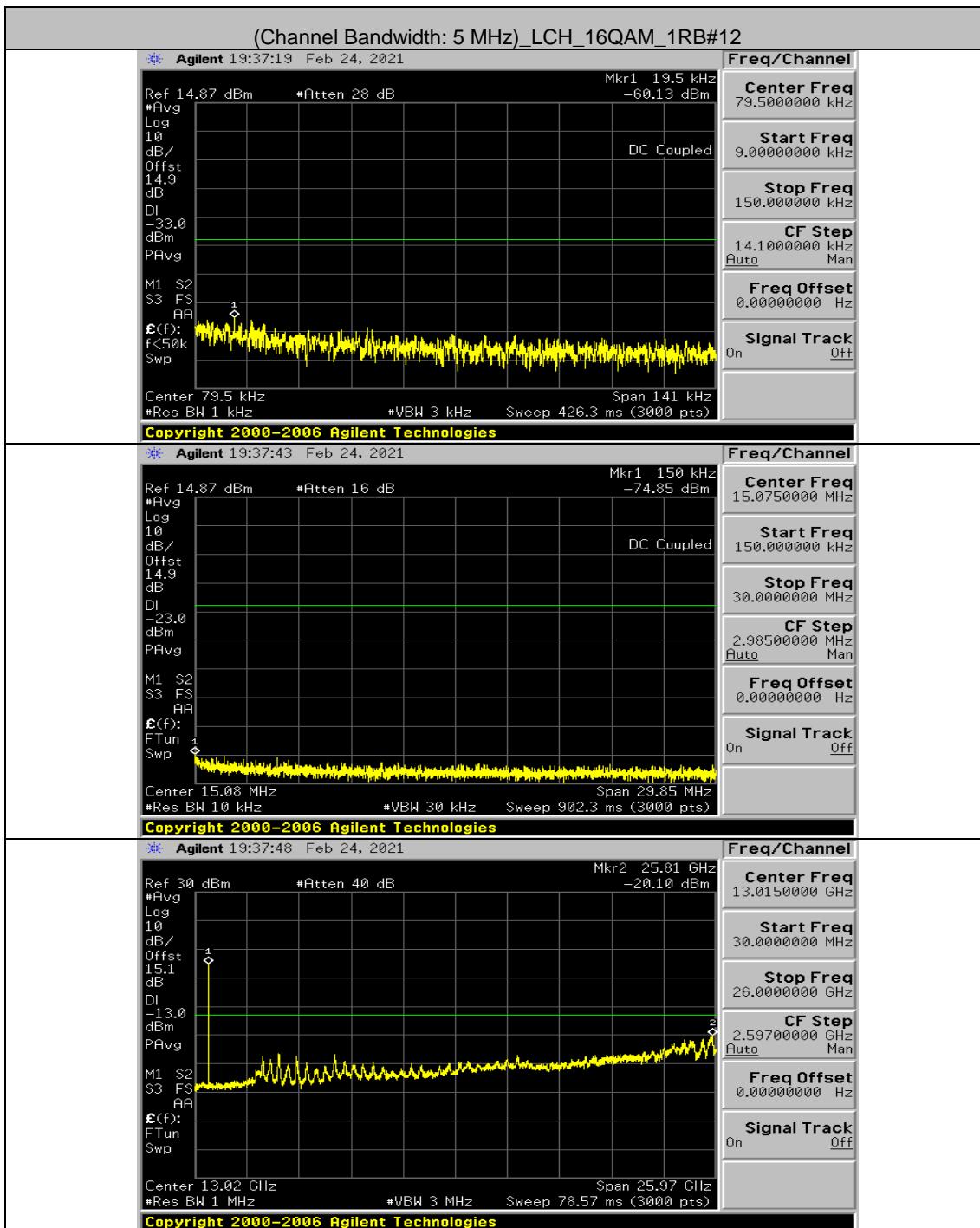


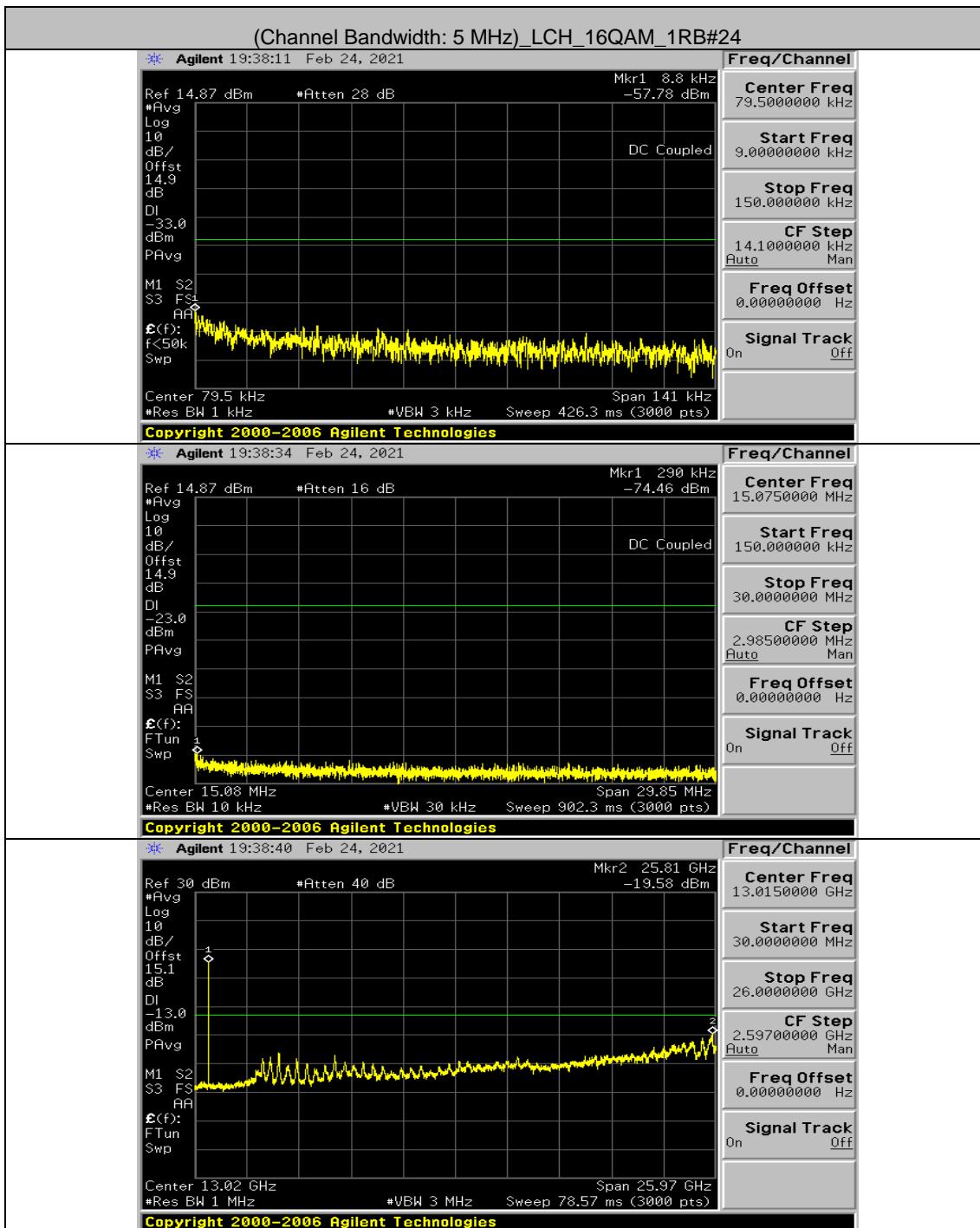


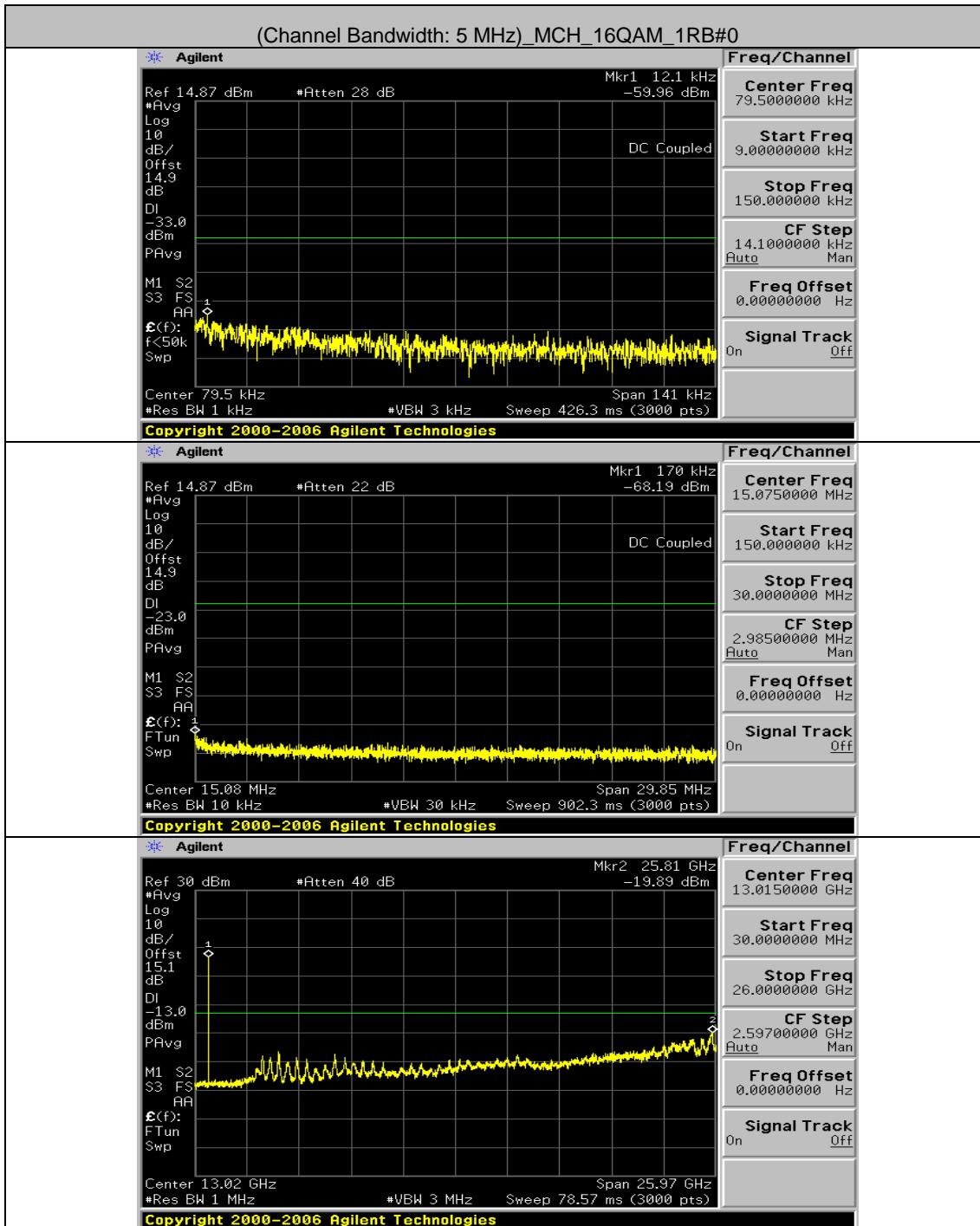








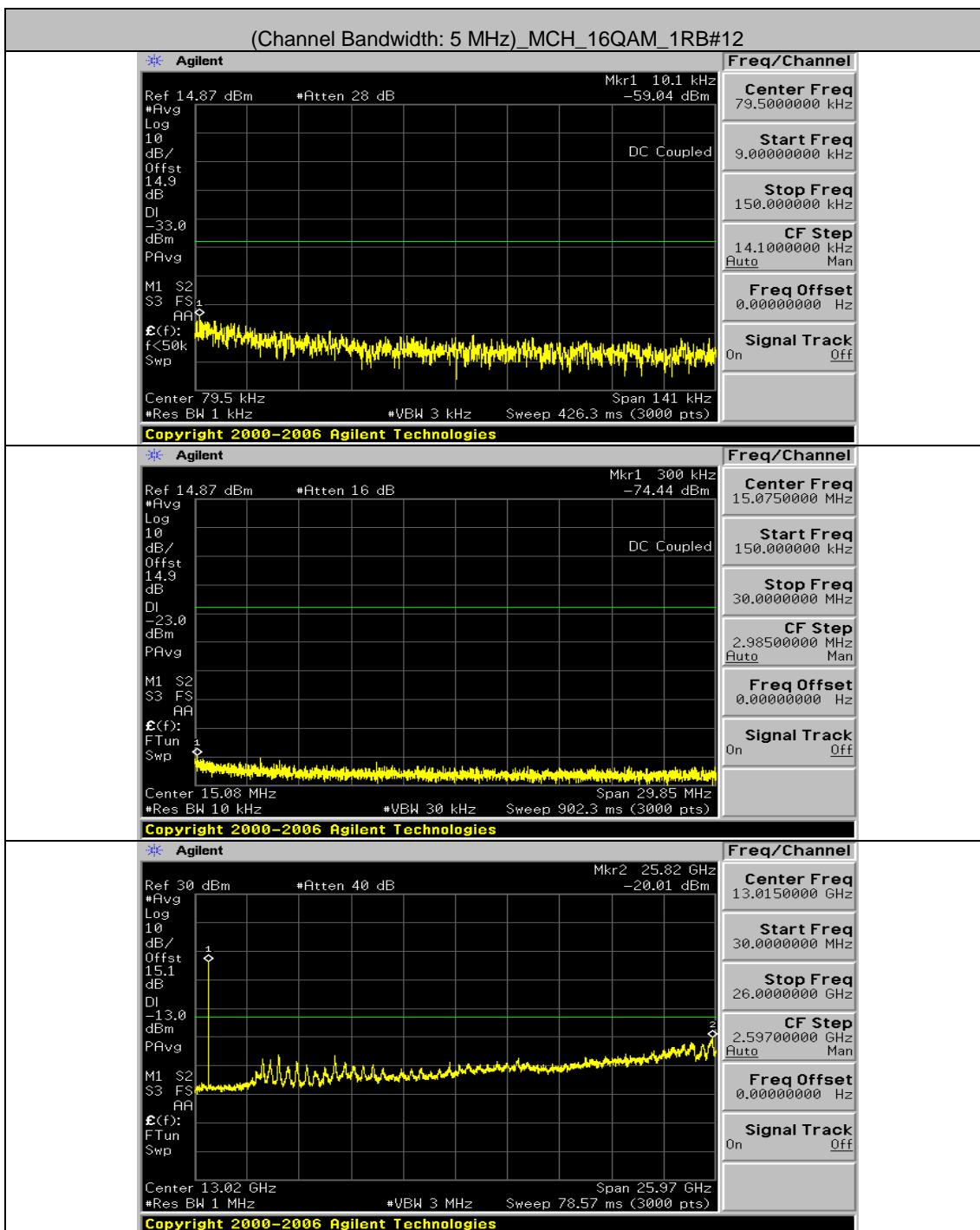


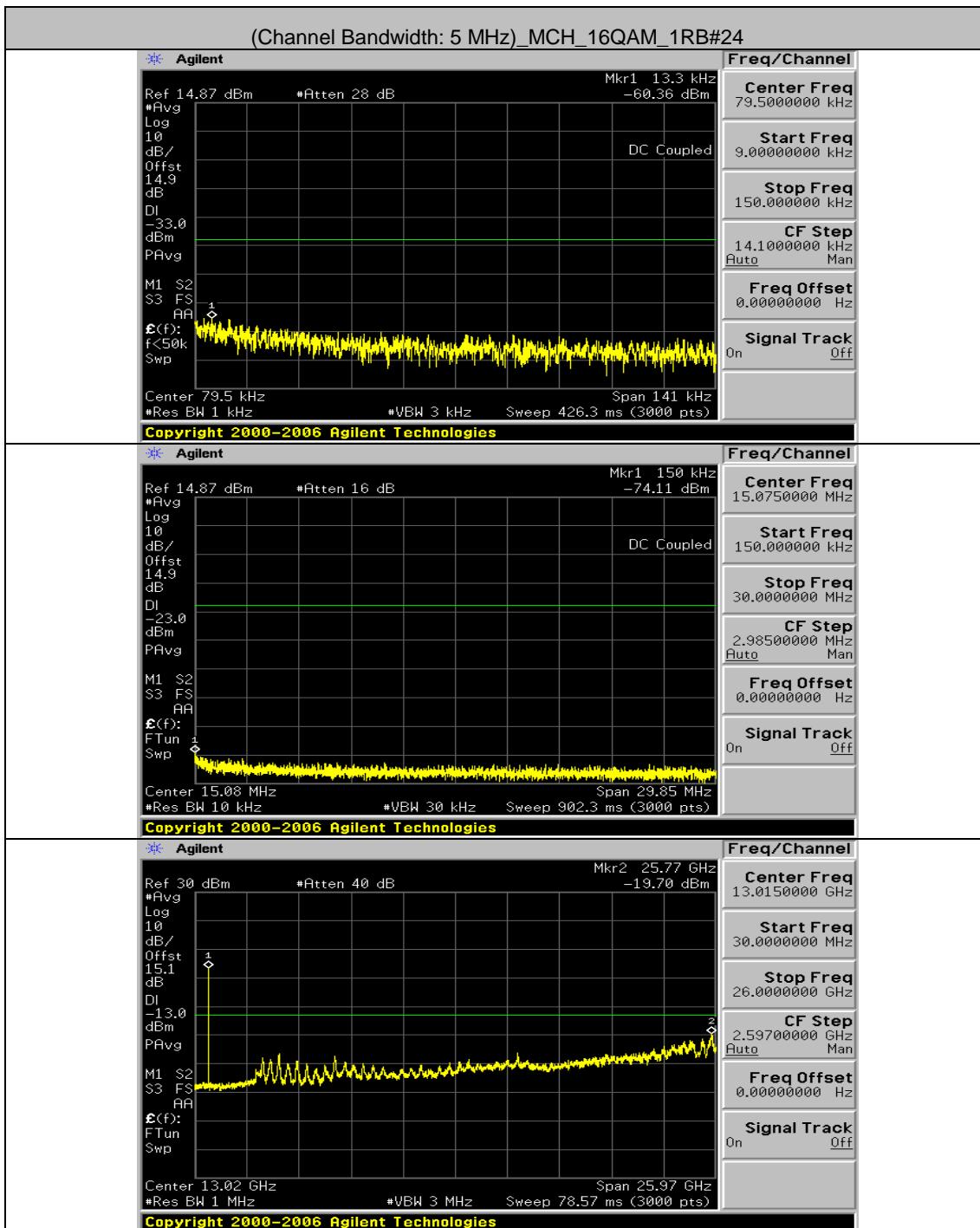


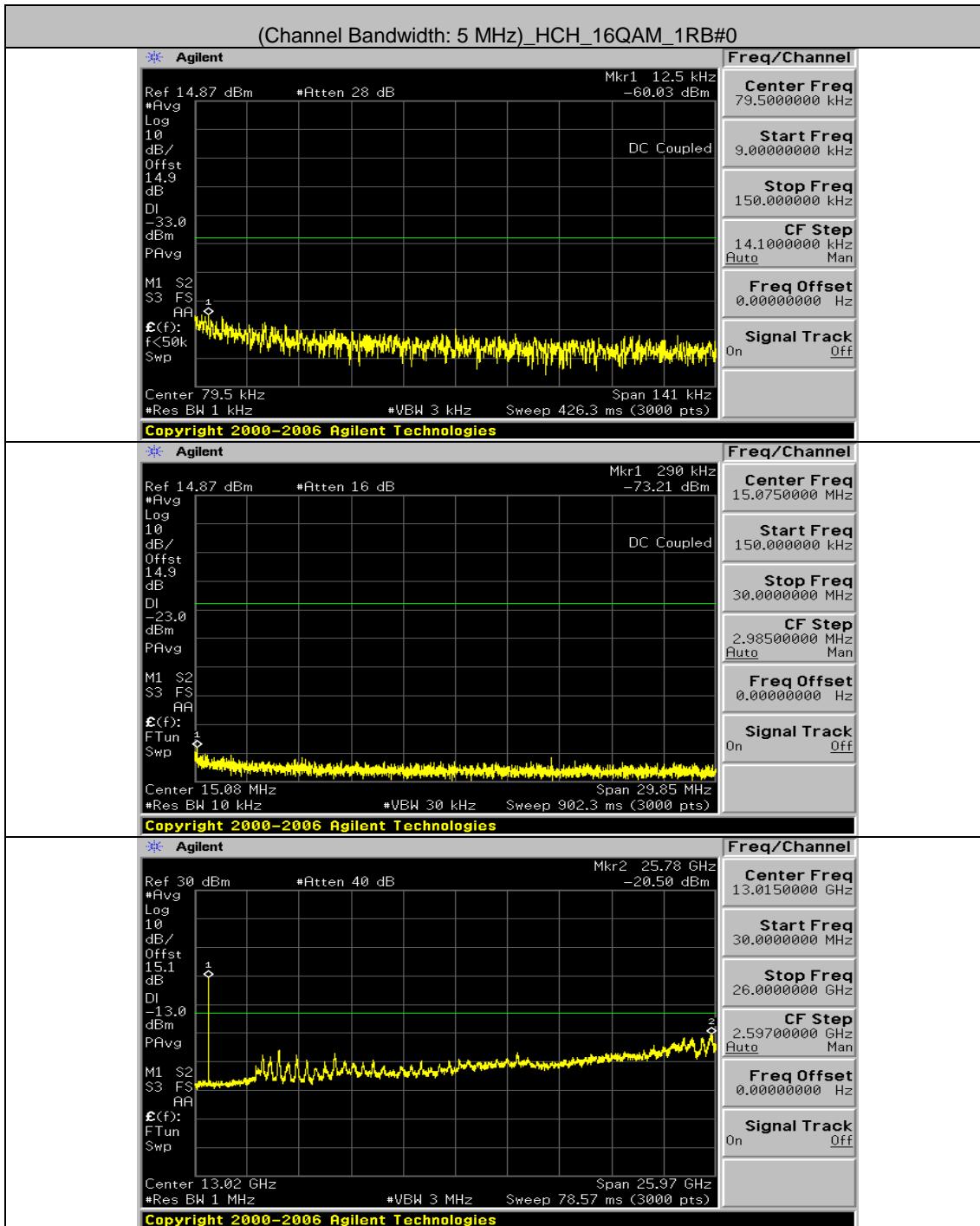


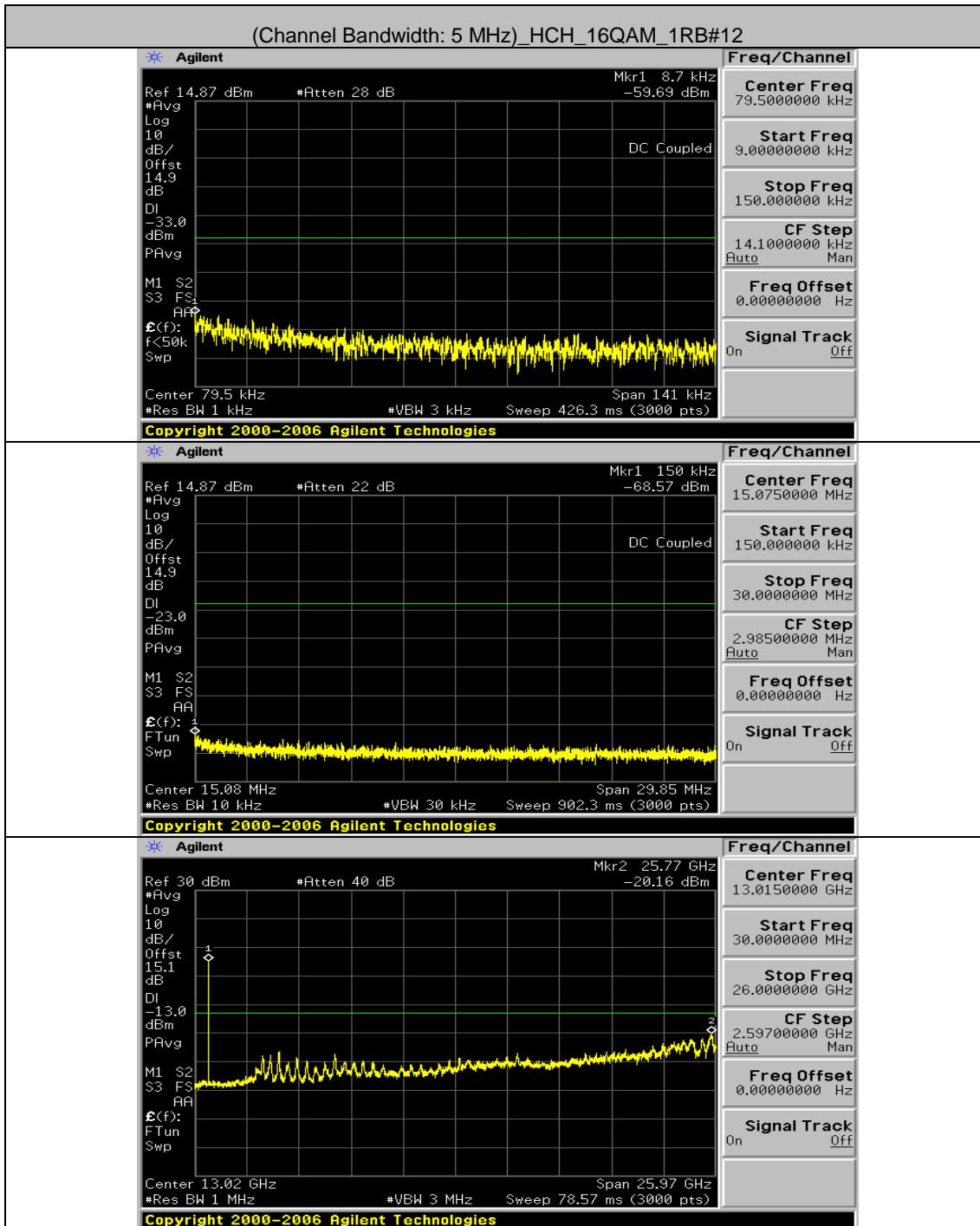
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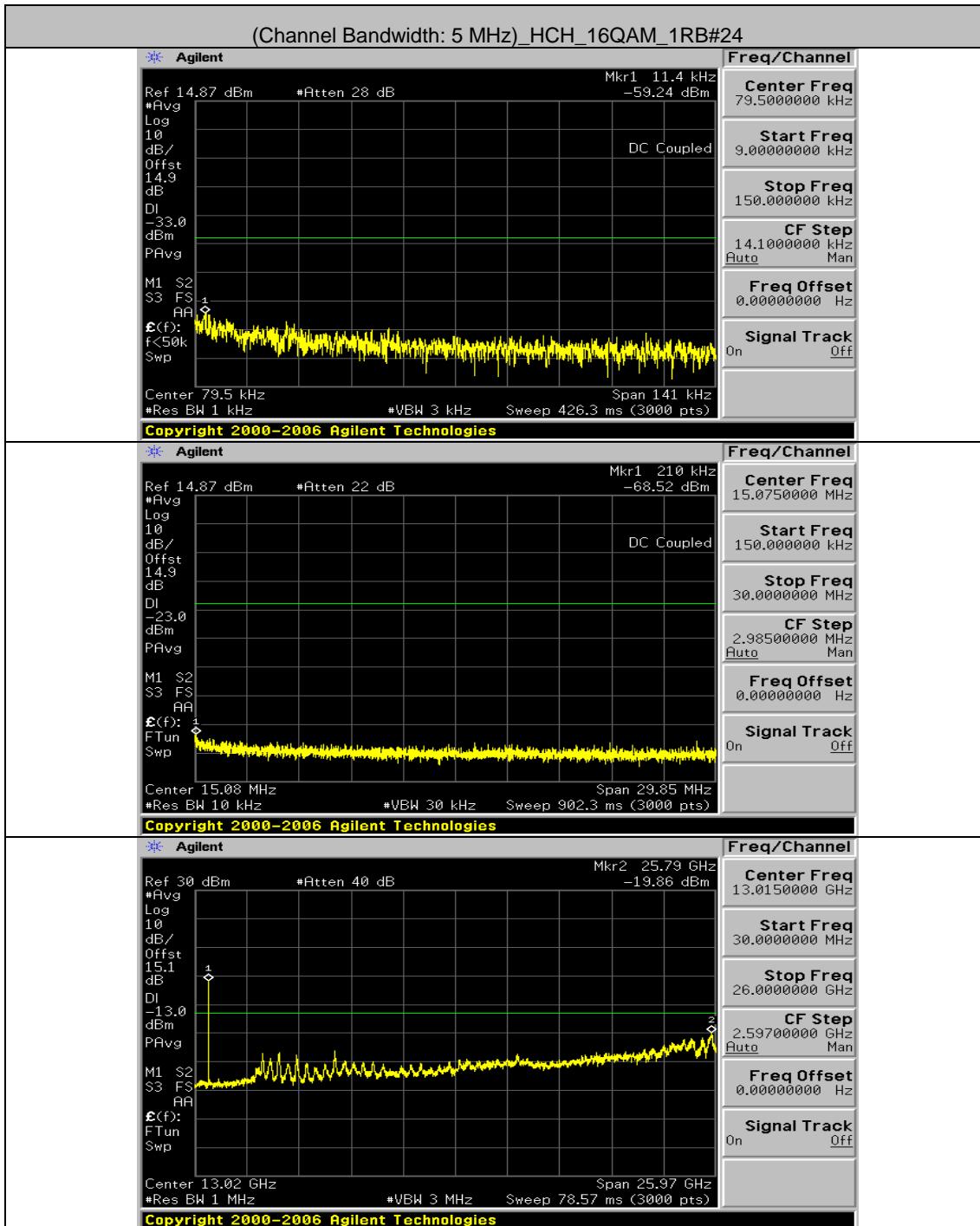
Report No.: CQASZ20190200042E-05



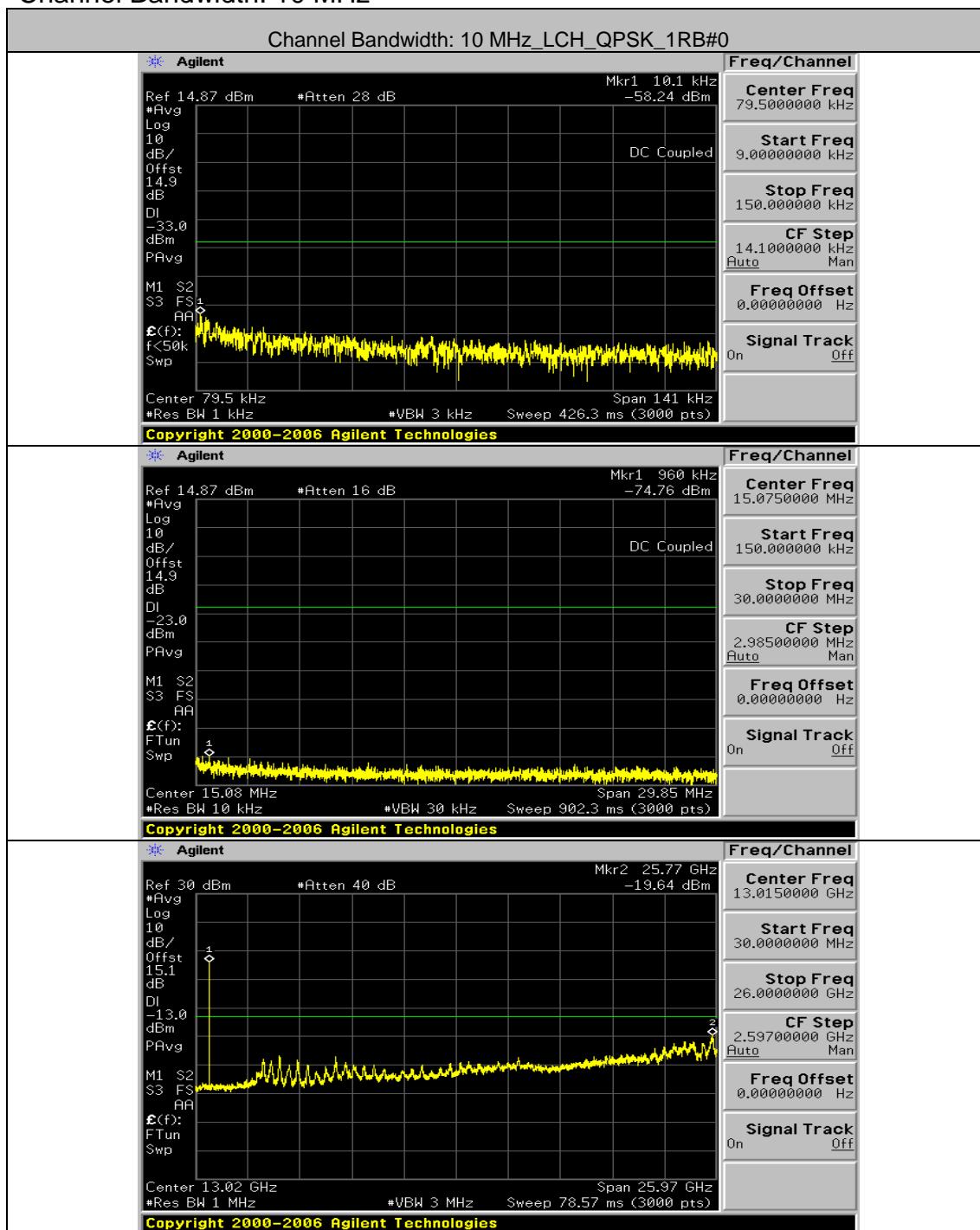


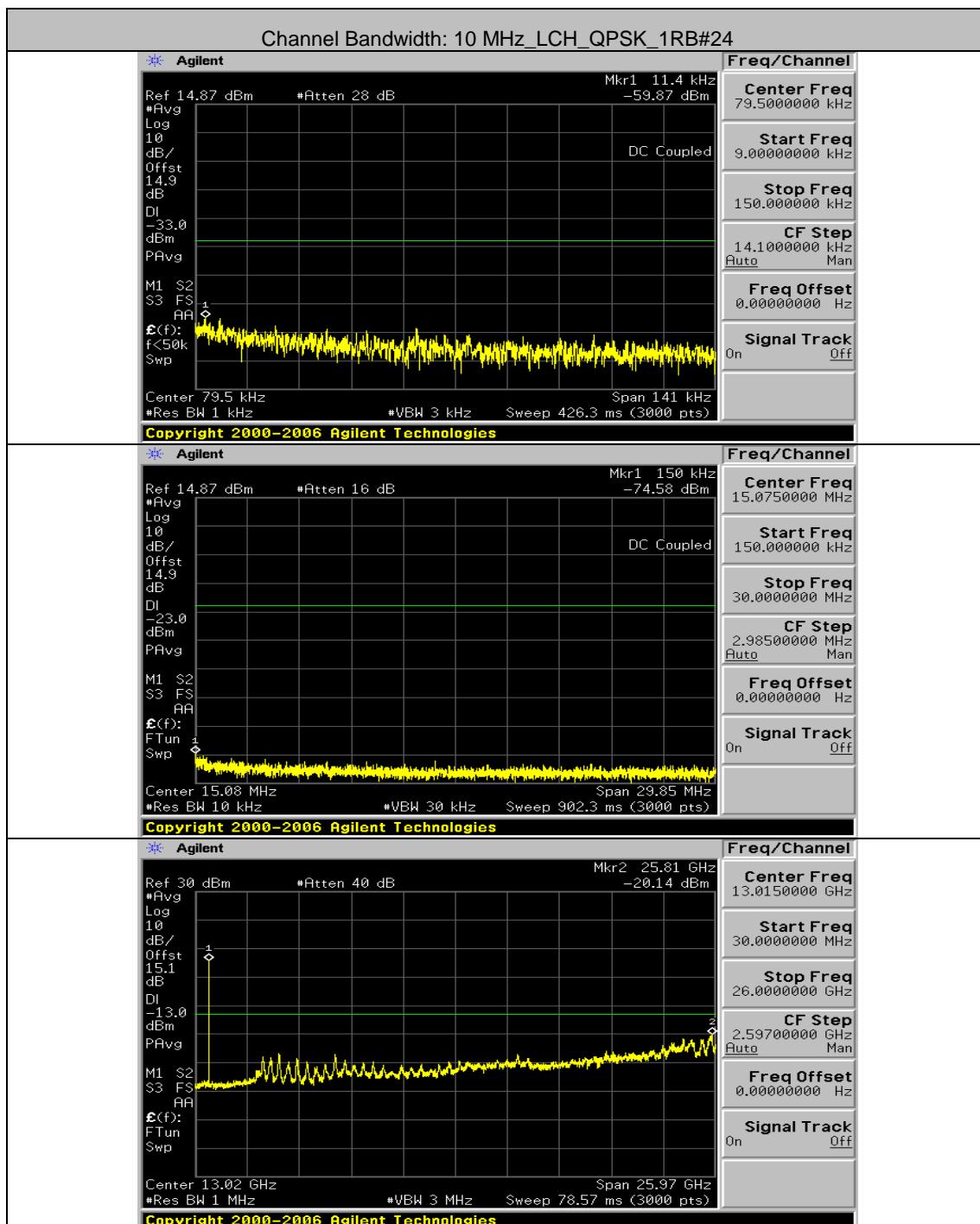


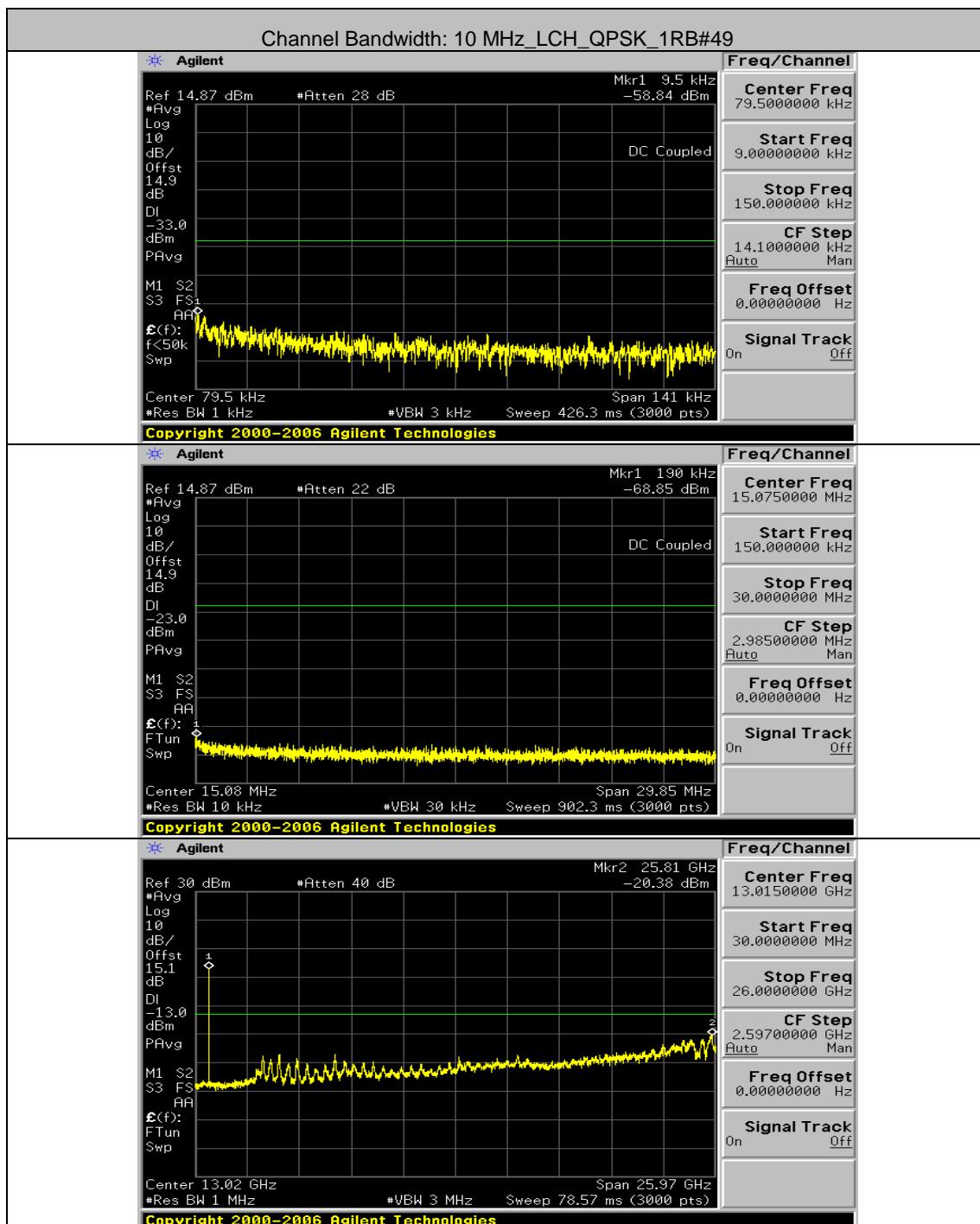


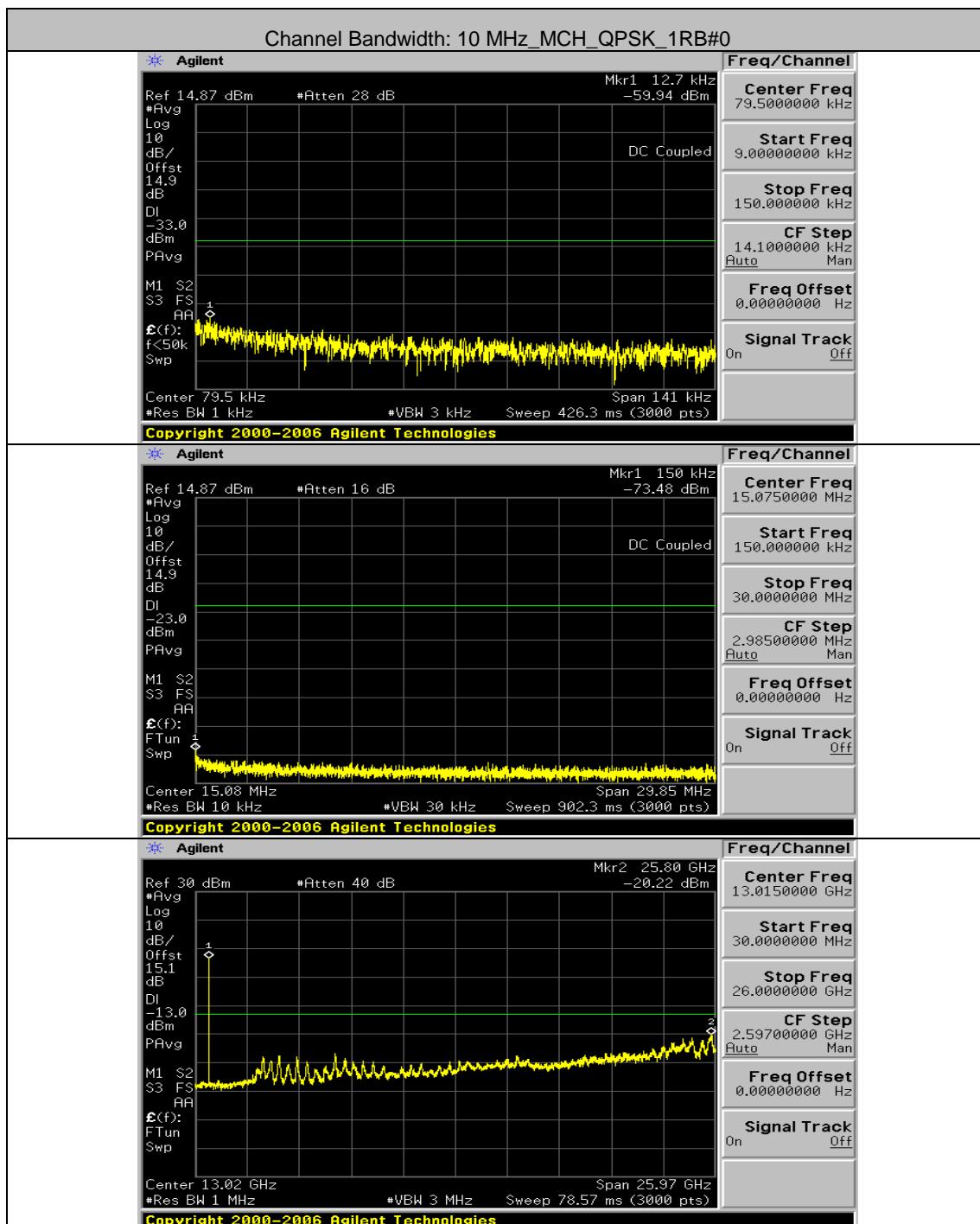


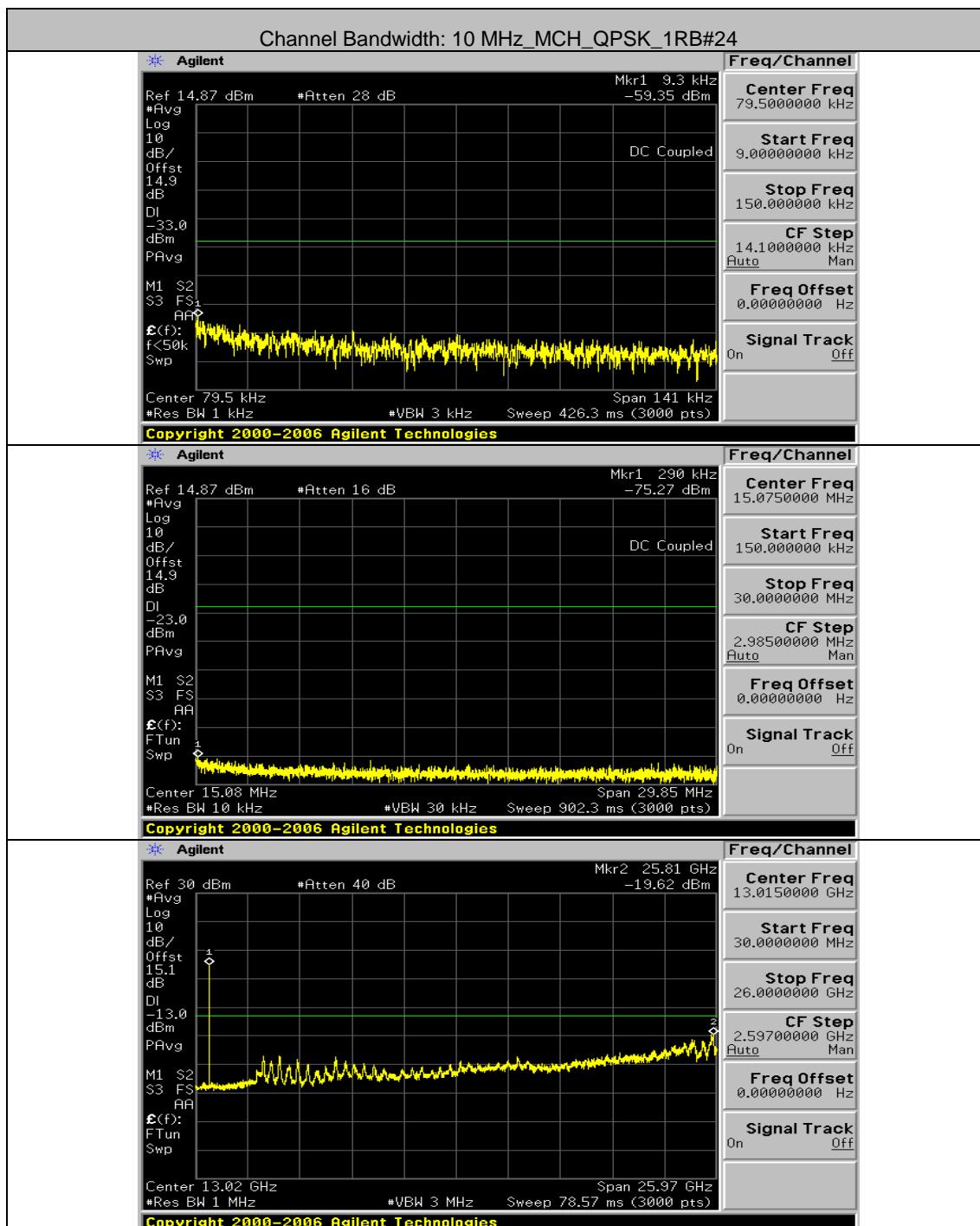
## Channel Bandwidth: 10 MHz

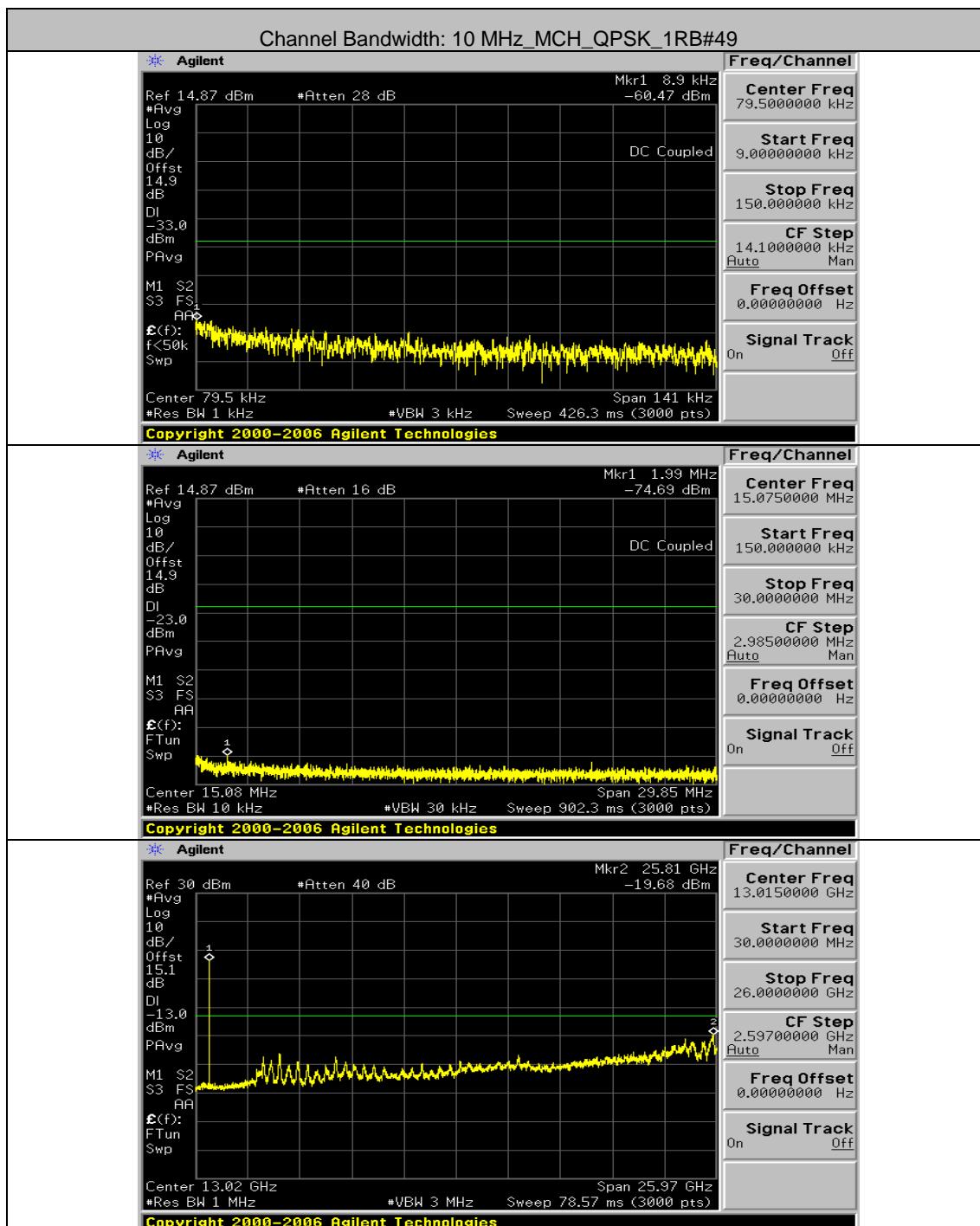


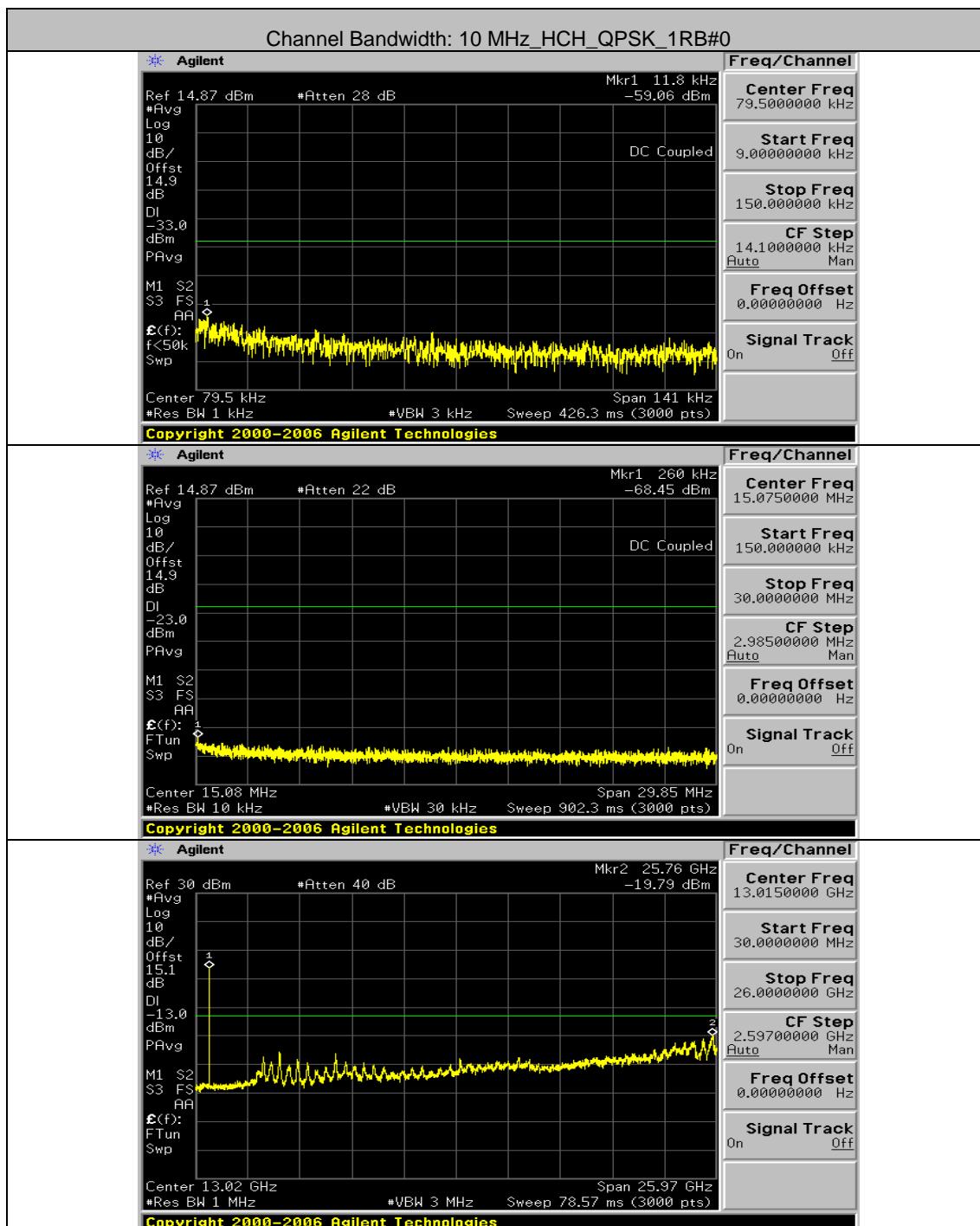








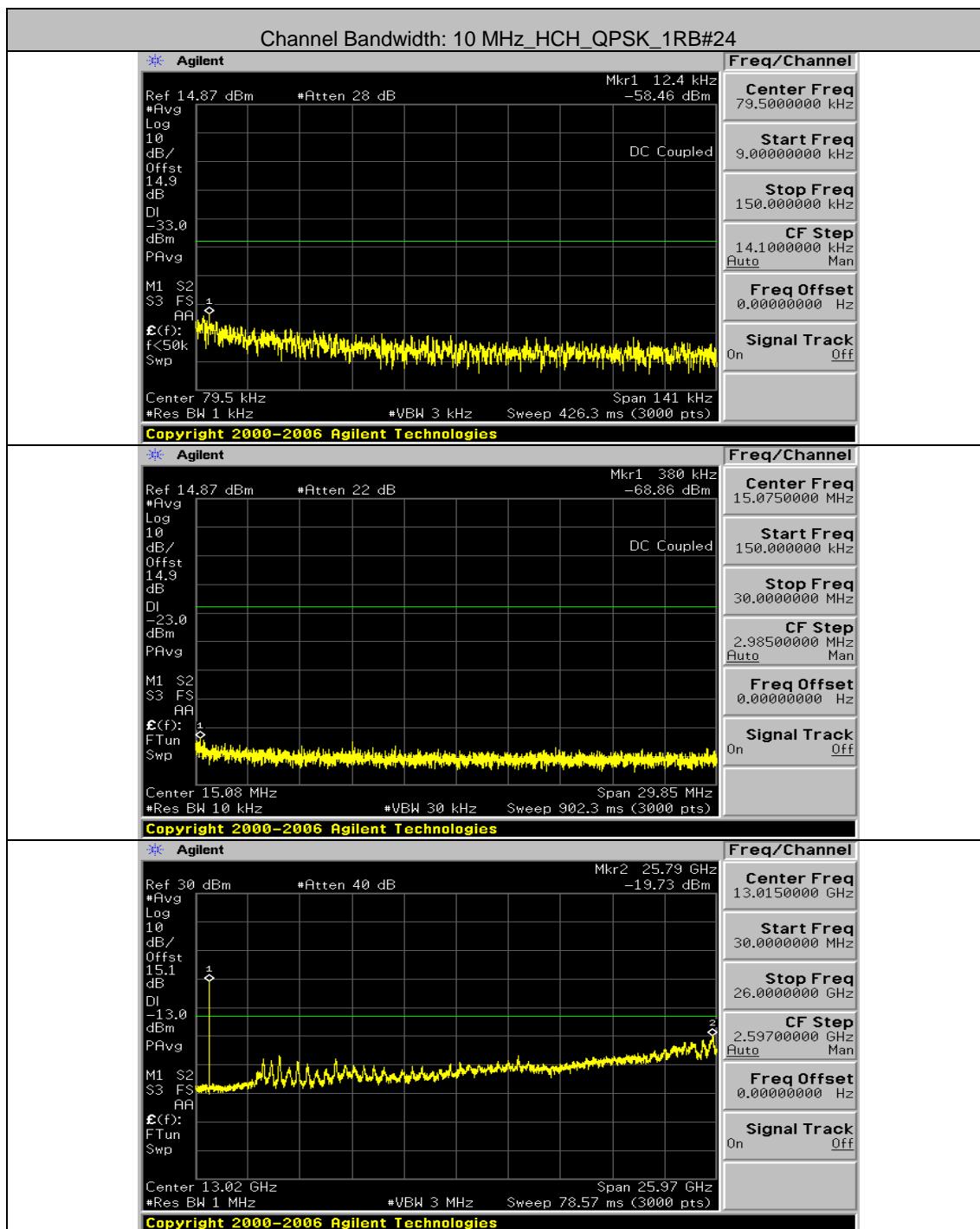


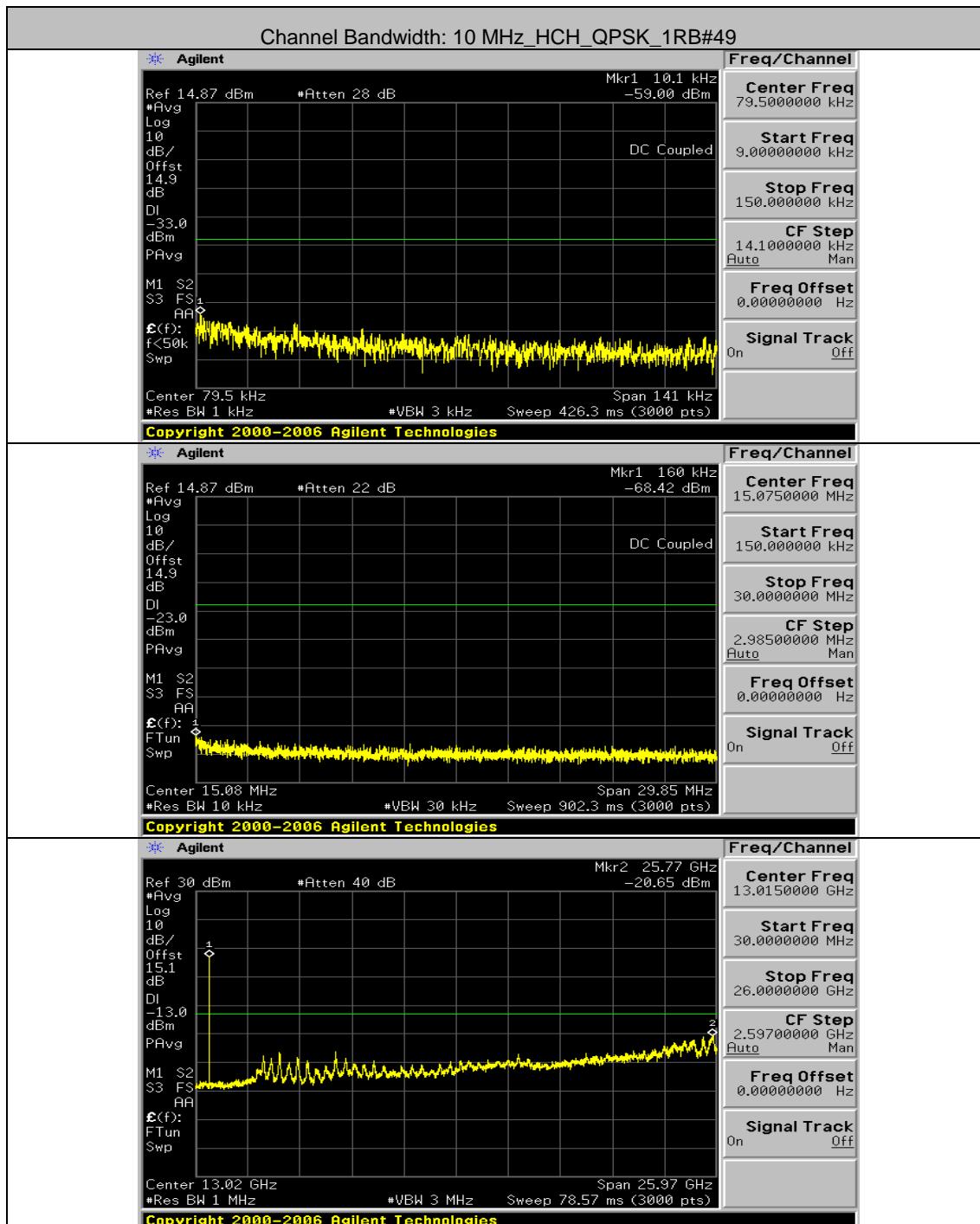


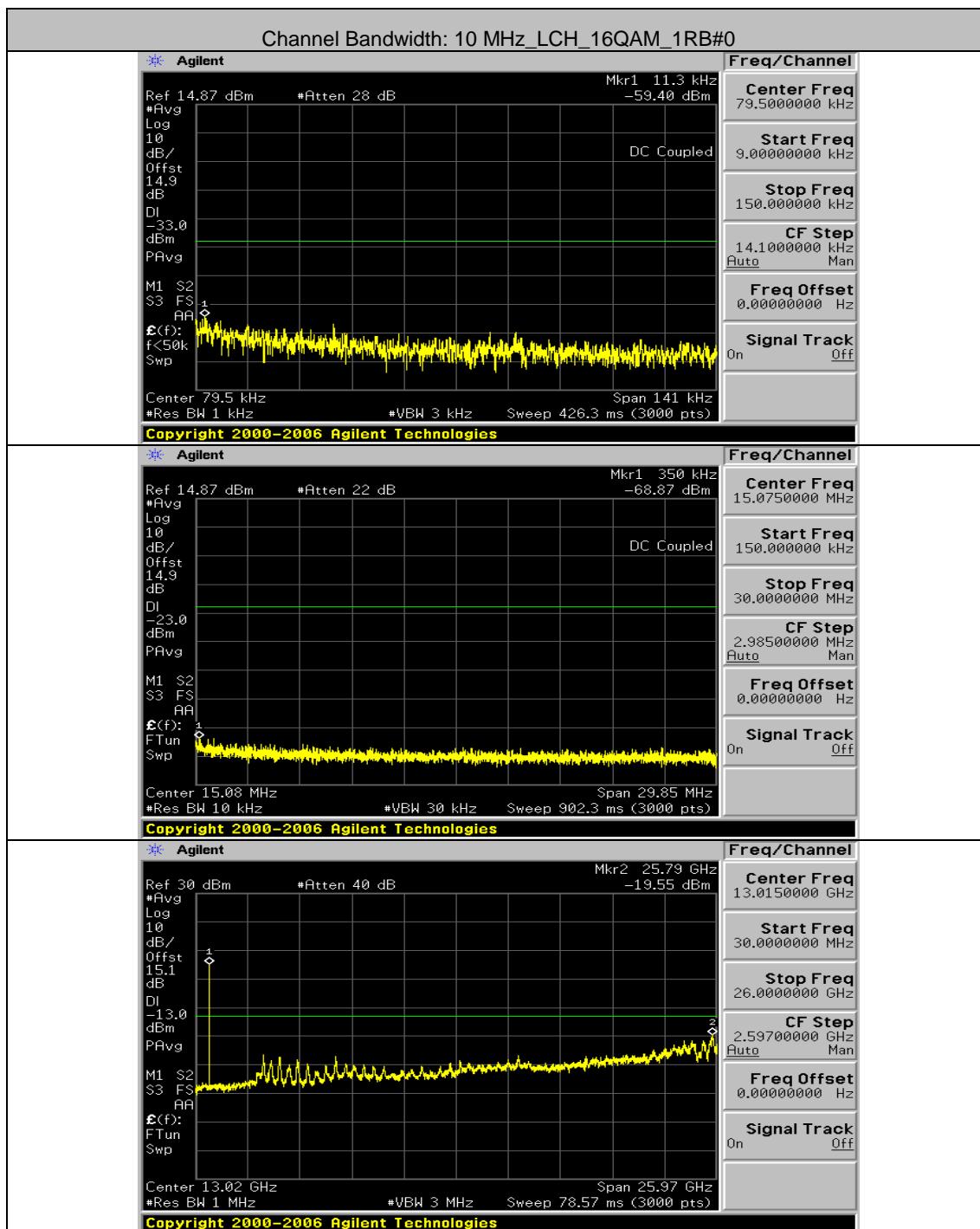


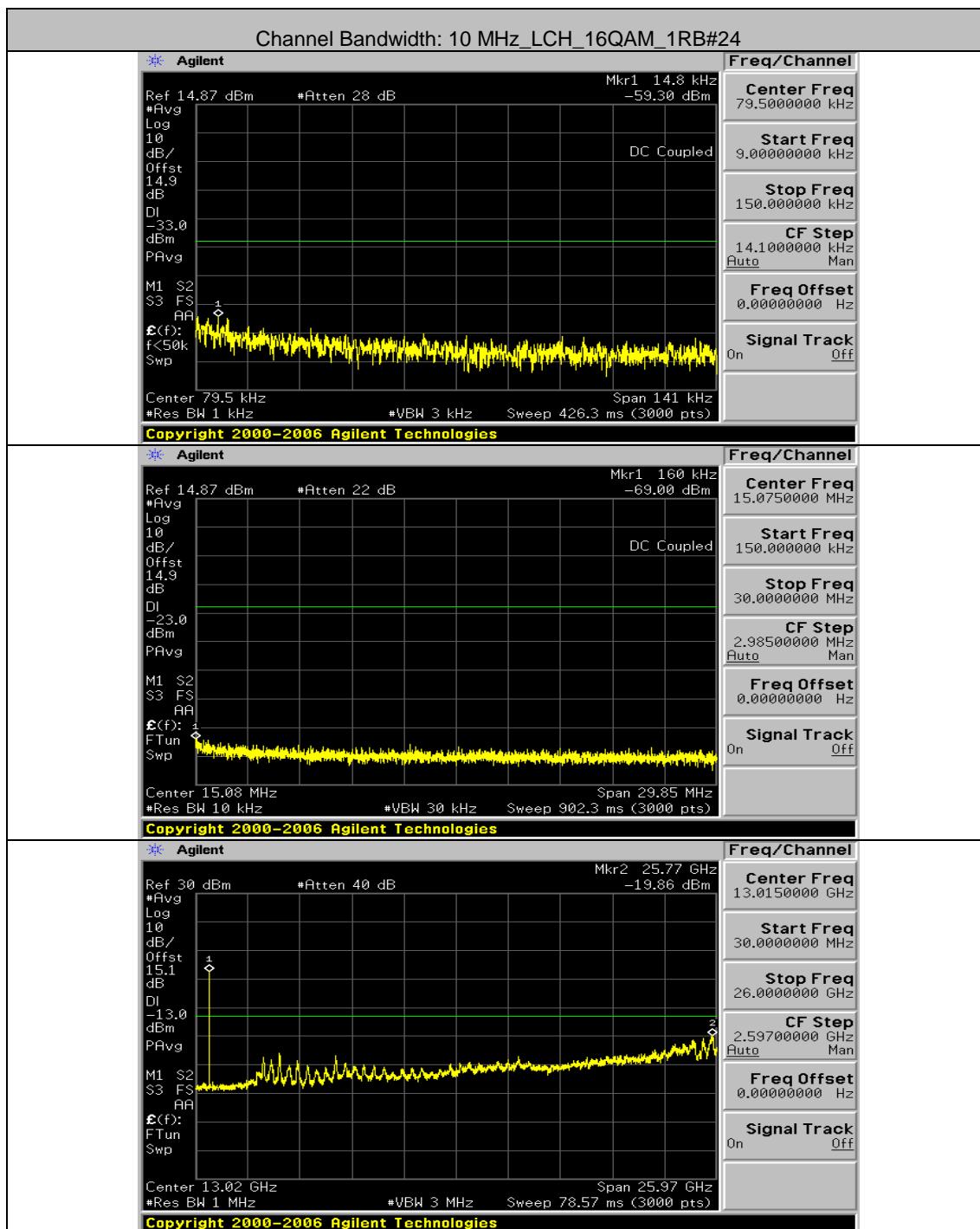
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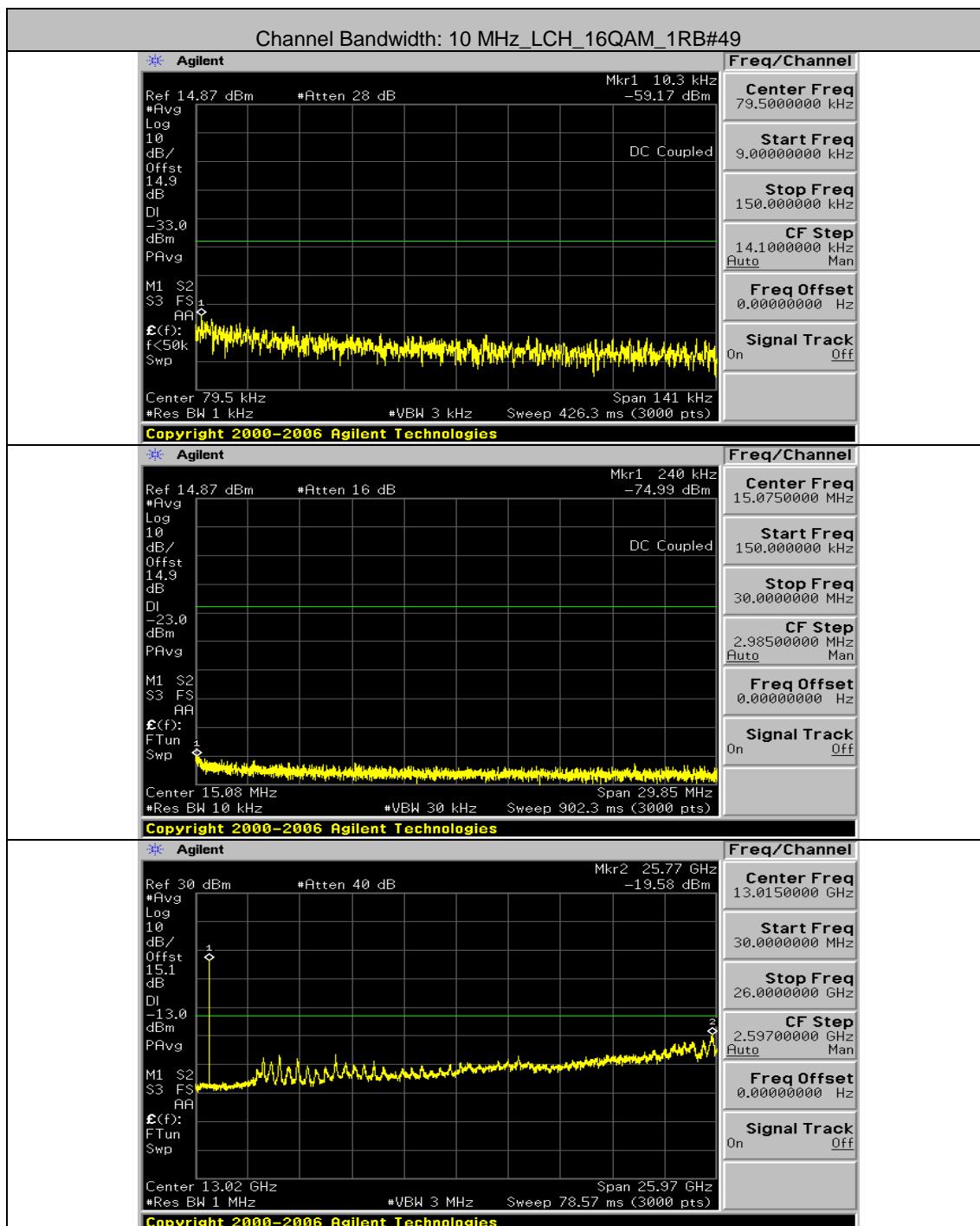
Report No.: CQASZ20190200042E-05

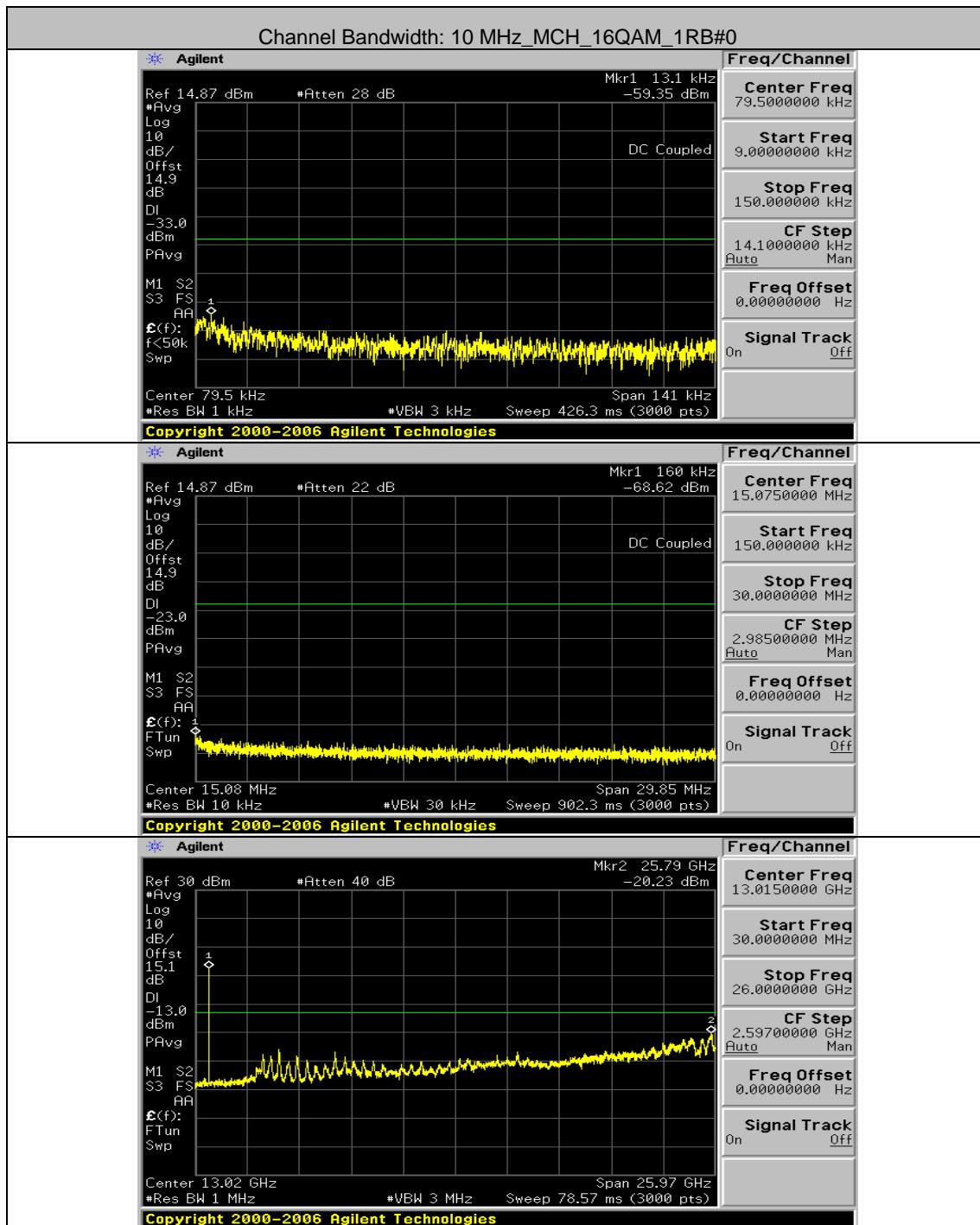


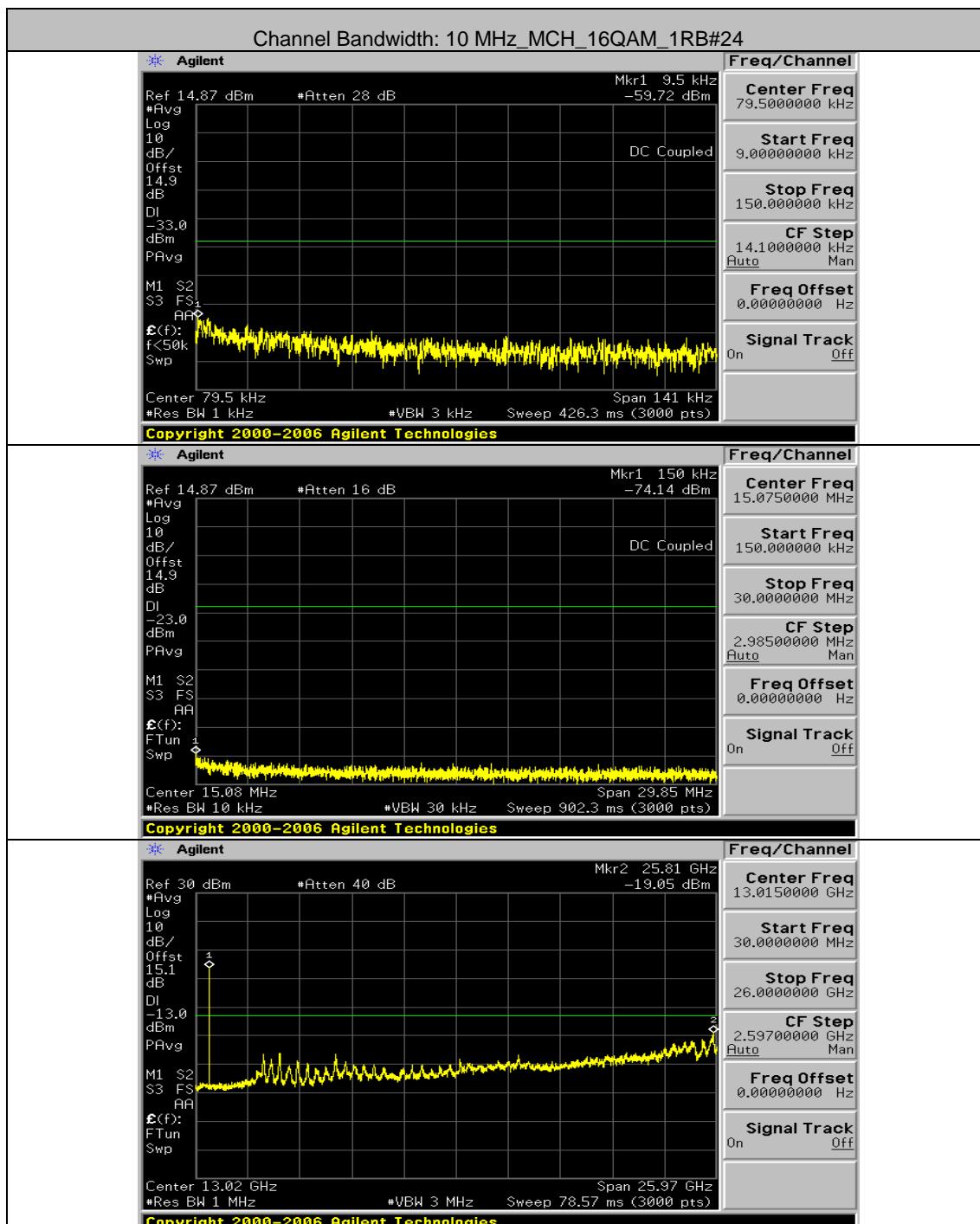


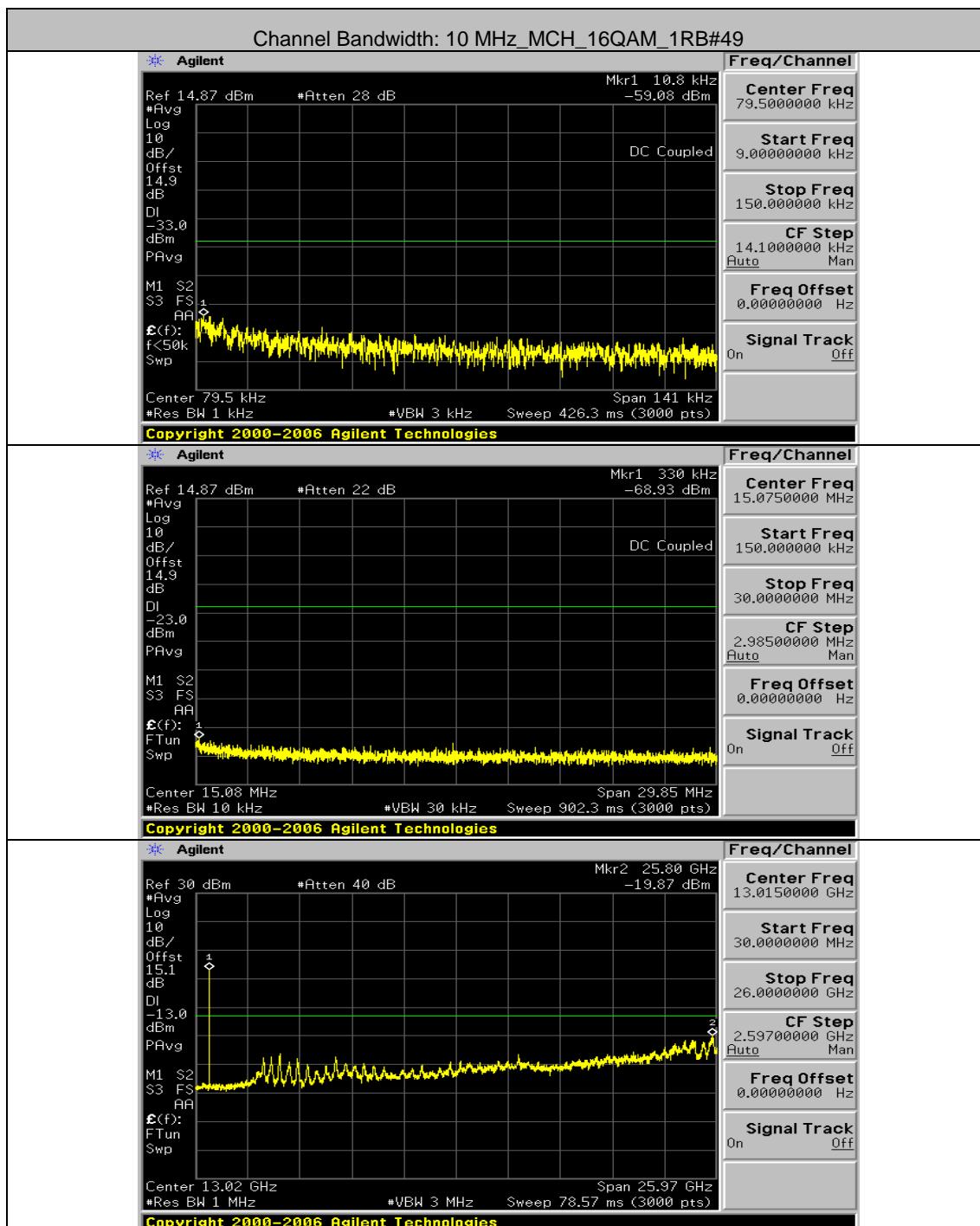


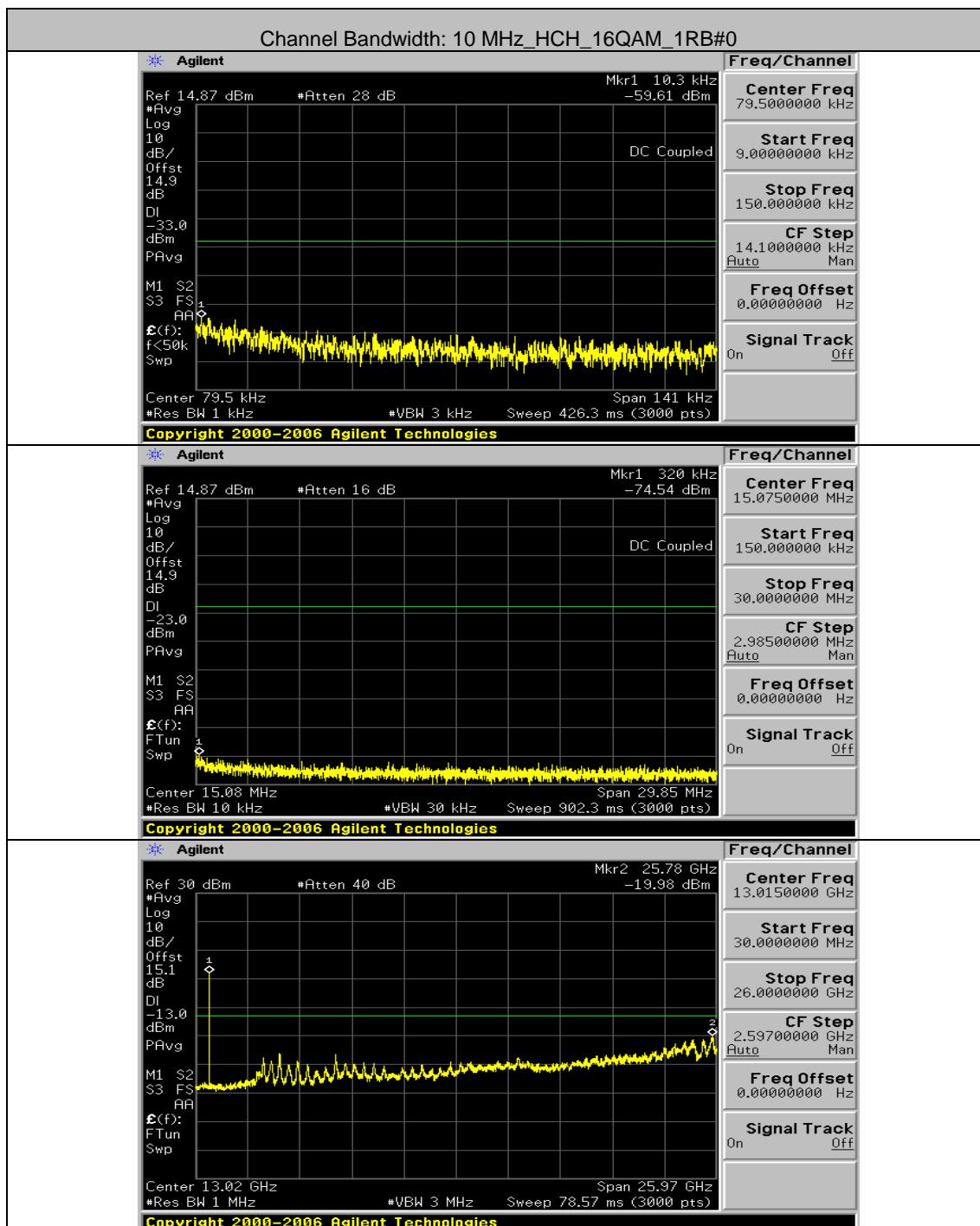


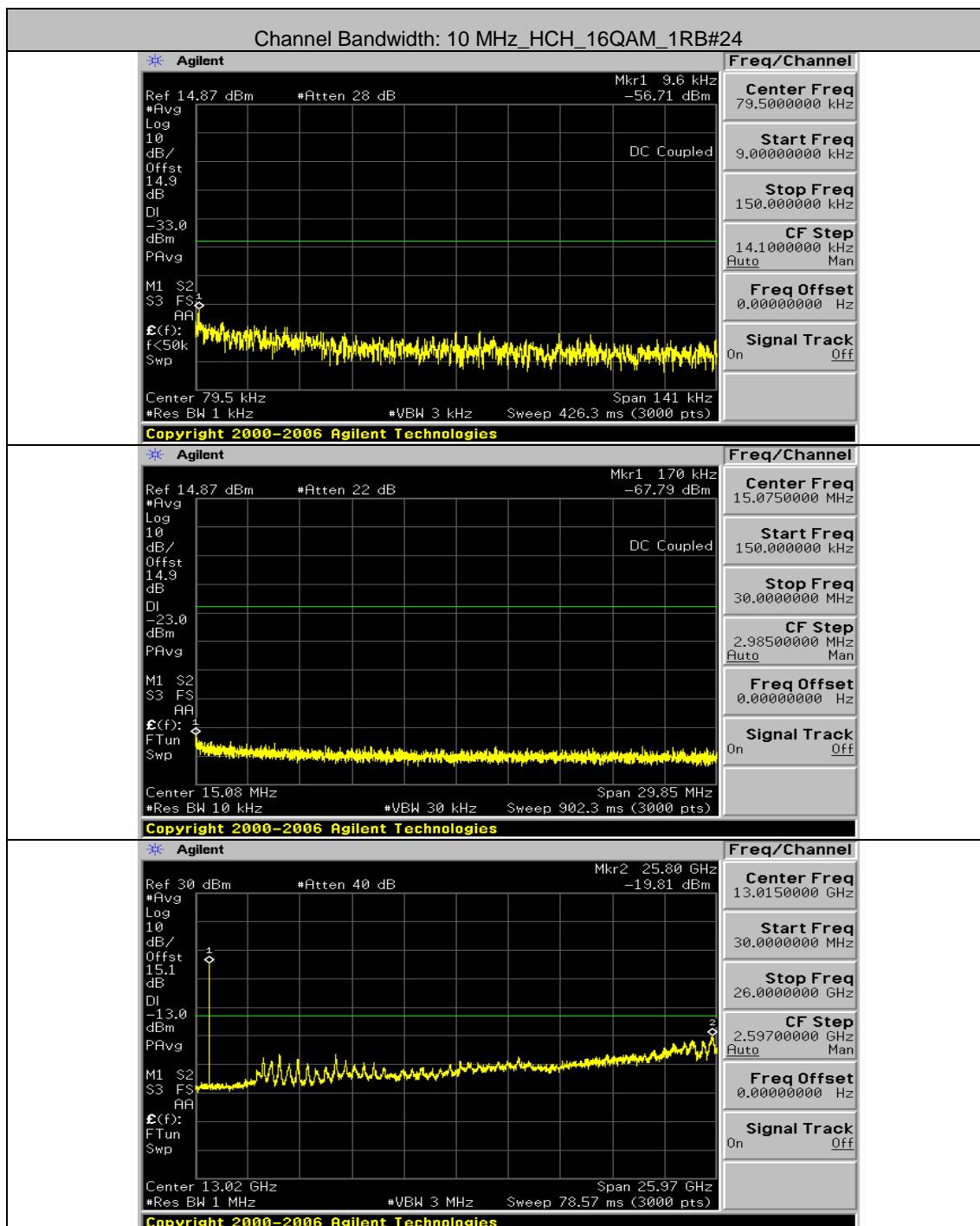


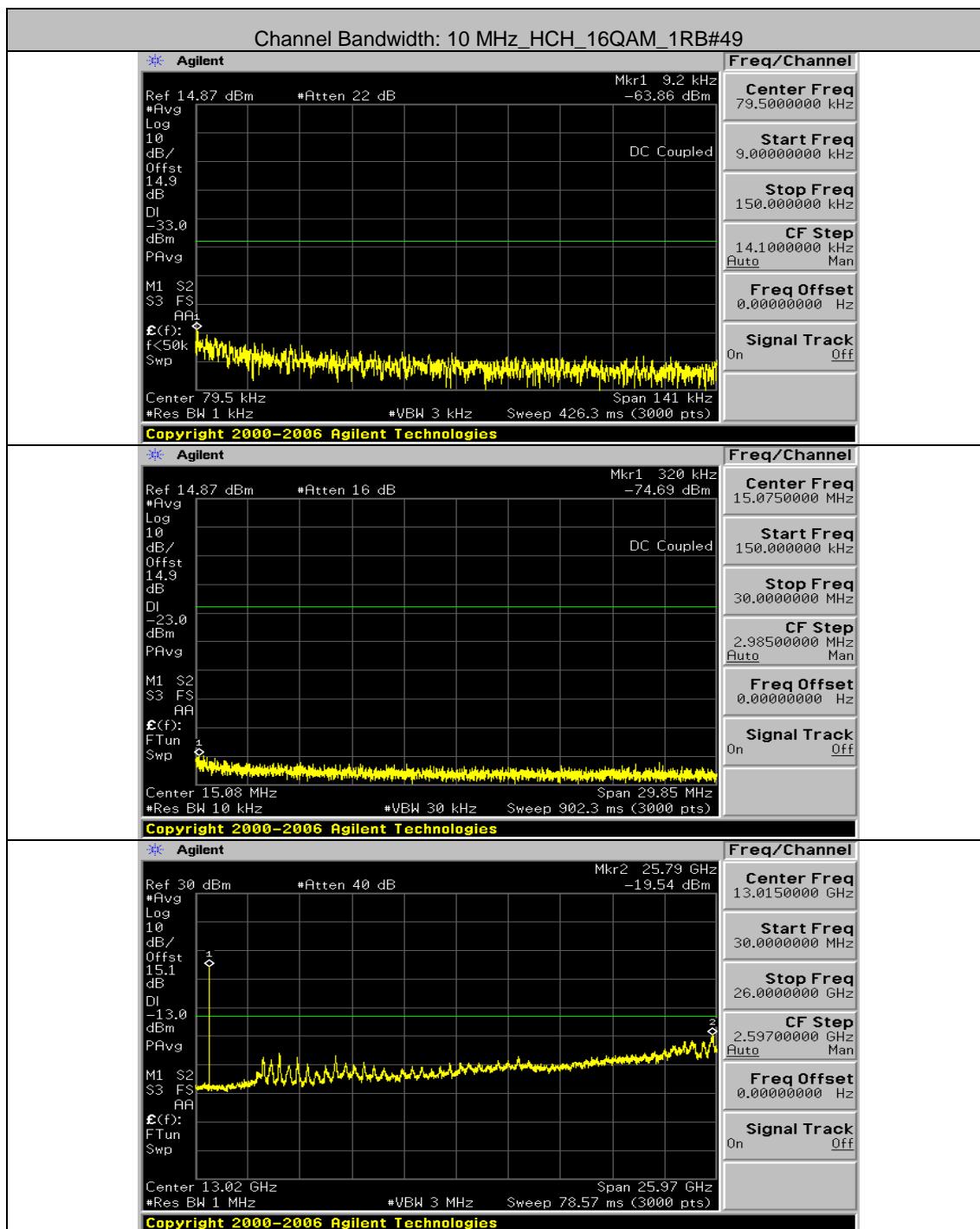












## 6 Field Strength of Spurious Radiation

### GSM

#### Test Data:

Test Band=GSM850

Test Mode=GSM/TM1

Test Channel=LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 432.48          | -41.41      | -13              | -28.41          | Vertical     |
| 657.65          | -39.91      | -13              | -26.91          | Vertical     |
| 1648.400        | -38.73      | -13              | -25.73          | Vertical     |
| 2472.600        | -42.96      | -13              | -29.96          | Vertical     |
| 3296.800        | -50.56      | -13              | -37.56          | Vertical     |
| 435.91          | -41.26      | -13              | -28.26          | Horizontal   |
| 695.10          | -40.84      | -13              | -27.84          | Horizontal   |
| 1648.400        | -50.05      | -13              | -37.05          | Horizontal   |
| 2472.600        | -45.78      | -13              | -32.78          | Horizontal   |
| 3296.800        | -51.30      | -13              | -38.30          | Horizontal   |

Test Channel=MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 431.38          | -41.74      | -13              | -28.74          | Vertical     |
| 696.90          | -39.89      | -13              | -26.89          | Vertical     |
| 1673.200        | -43.17      | -13              | -30.17          | Vertical     |
| 2509.800        | -44.47      | -13              | -31.47          | Vertical     |
| 3346.400        | -49.61      | -13              | -36.61          | Vertical     |
| 437.12          | -41.70      | -13              | -28.70          | Horizontal   |
| 638.88          | -39.62      | -13              | -26.62          | Horizontal   |
| 1673.200        | -43.00      | -13              | -30.00          | Horizontal   |
| 2509.800        | -46.12      | -13              | -33.12          | Horizontal   |
| 3346.400        | -51.35      | -13              | -38.35          | Horizontal   |

Test Channel=HCH

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 438.23                 | -42.25             | -13                     | -29.25                 | Vertical            |
| 682.09                 | -40.65             | -13                     | -27.65                 | Vertical            |
| 1697.600               | -41.80             | -13                     | -28.80                 | Vertical            |
| 2546.400               | -42.00             | -13                     | -29.00                 | Vertical            |
| 3395.200               | -50.39             | -13                     | -37.39                 | Vertical            |
| 426.30                 | -41.91             | -13                     | -28.91                 | Horizontal          |
| 605.25                 | -41.24             | -13                     | -28.24                 | Horizontal          |
| 1697.600               | -43.18             | -13                     | -30.18                 | Horizontal          |
| 2546.400               | -45.75             | -13                     | -32.75                 | Horizontal          |
| 3395.200               | -50.78             | -13                     | -37.78                 | Horizontal          |

Test Mode=GSM/TM2

Test Channel=LCH

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 413.57                 | -41.04             | -13                     | -28.04                 | Vertical            |
| 653.21                 | -40.04             | -13                     | -27.04                 | Vertical            |
| 1648.400               | -40.48             | -13                     | -27.48                 | Vertical            |
| 2472.600               | -43.15             | -13                     | -30.15                 | Vertical            |
| 3296.800               | -49.48             | -13                     | -36.48                 | Vertical            |
| 428.13                 | -42.13             | -13                     | -29.13                 | Horizontal          |
| 690.81                 | -41.37             | -13                     | -28.37                 | Horizontal          |
| 1648.400               | -51.25             | -13                     | -38.25                 | Horizontal          |
| 2472.600               | -45.82             | -13                     | -32.82                 | Horizontal          |
| 3296.800               | -51.50             | -13                     | -38.50                 | Horizontal          |

Test Channel=MCH

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 435.50                 | -41.57             | -13                     | -28.57                 | Vertical            |
| 667.34                 | -39.83             | -13                     | -26.83                 | Vertical            |
| 1673.200               | -41.95             | -13                     | -28.95                 | Vertical            |
| 2509.800               | -45.37             | -13                     | -32.37                 | Vertical            |
| 3346.400               | -50.37             | -13                     | -37.37                 | Vertical            |
| 441.33                 | -41.63             | -13                     | -28.63                 | Horizontal          |
| 696.49                 | -40.11             | -13                     | -27.11                 | Horizontal          |
| 1673.200               | -43.11             | -13                     | -30.11                 | Horizontal          |
| 2509.800               | -45.72             | -13                     | -32.72                 | Horizontal          |
| 3346.400               | -51.58             | -13                     | -38.58                 | Horizontal          |

Test Channel=HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 435.59          | -41.08      | -13              | -28.08          | Vertical     |
| 662.42          | -39.97      | -13              | -26.97          | Vertical     |
| 1697.600        | -41.88      | -13              | -28.88          | Vertical     |
| 2546.400        | -41.93      | -13              | -28.93          | Vertical     |
| 3395.200        | -50.59      | -13              | -37.59          | Vertical     |
| 443.03          | -41.77      | -13              | -28.77          | Horizontal   |
| 642.54          | -39.93      | -13              | -26.93          | Horizontal   |
| 1697.600        | -42.17      | -13              | -29.17          | Horizontal   |
| 2546.400        | -45.55      | -13              | -32.55          | Horizontal   |
| 3395.200        | -51.50      | -13              | -38.50          | Horizontal   |

Test Band=GSM1900

Test Mode=GSM/TM1

Test Channel=LCH

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 436.85                 | -40.87             | -13                     | -27.87                 | Vertical            |
| 688.49                 | -40.92             | -13                     | -27.92                 | Vertical            |
| 3700.400               | -40.14             | -13                     | -27.14                 | Vertical            |
| 5550.600               | -41.82             | -13                     | -28.82                 | Vertical            |
| 7400.800               | -48.71             | -13                     | -35.71                 | Vertical            |
| 423.45                 | -42.06             | -13                     | -29.06                 | Horizontal          |
| 682.82                 | -41.38             | -13                     | -28.38                 | Horizontal          |
| 3700.400               | -43.60             | -13                     | -30.60                 | Horizontal          |
| 5550.600               | -45.52             | -13                     | -32.52                 | Horizontal          |
| 7400.800               | -50.12             | -13                     | -37.12                 | Horizontal          |

Test Channel=MCH

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 420.34                 | -41.11             | -13                     | -28.11                 | Vertical            |
| 632.84                 | -41.18             | -13                     | -28.18                 | Vertical            |
| 3760.000               | -39.64             | -13                     | -26.64                 | Vertical            |
| 5640.000               | -42.73             | -13                     | -29.73                 | Vertical            |
| 7520.000               | -50.30             | -13                     | -37.30                 | Vertical            |
| 410.66                 | -42.52             | -13                     | -29.52                 | Horizontal          |
| 606.93                 | -40.90             | -13                     | -27.90                 | Horizontal          |
| 3760.000               | -42.79             | -13                     | -29.79                 | Horizontal          |
| 5640.000               | -46.25             | -13                     | -33.25                 | Horizontal          |
| 7520.000               | -50.36             | -13                     | -37.36                 | Horizontal          |

Test Channel=HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 440.29          | -41.57      | -13              | -28.57          | Vertical     |
| 609.94          | -40.20      | -13              | -27.20          | Vertical     |
| 3819.600        | -42.50      | -13              | -29.50          | Vertical     |
| 5729.400        | -43.21      | -13              | -30.21          | Vertical     |
| 7639.200        | -49.90      | -13              | -36.90          | Vertical     |
| 418.14          | -41.74      | -13              | -28.74          | Horizontal   |
| 611.49          | -40.15      | -13              | -27.15          | Horizontal   |
| 3819.600        | -42.09      | -13              | -29.09          | Horizontal   |
| 5729.400        | -45.11      | -13              | -32.11          | Horizontal   |
| 7639.200        | -50.40      | -13              | -37.40          | Horizontal   |

Test Mode=GSM/TM2

Test Channel=LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 411.27          | -41.48      | -13              | -28.48          | Vertical     |
| 609.44          | -40.53      | -13              | -27.53          | Vertical     |
| 3700.400        | -38.62      | -13              | -25.62          | Vertical     |
| 5550.600        | -42.66      | -13              | -29.66          | Vertical     |
| 7400.800        | -49.01      | -13              | -36.01          | Vertical     |
| 415.56          | -41.84      | -13              | -28.84          | Horizontal   |
| 694.36          | -39.67      | -13              | -26.67          | Horizontal   |
| 3700.400        | -42.89      | -13              | -29.89          | Horizontal   |
| 5550.600        | -44.97      | -13              | -31.97          | Horizontal   |
| 7400.800        | -49.91      | -13              | -36.91          | Horizontal   |

Test Channel=MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 443.85          | -41.70      | -13              | -28.70          | Vertical     |
| 623.57          | -40.72      | -13              | -27.72          | Vertical     |
| 3760.000        | -40.10      | -13              | -27.10          | Vertical     |
| 5640.000        | -43.11      | -13              | -30.11          | Vertical     |
| 7520.000        | -50.43      | -13              | -37.43          | Vertical     |
| 430.00          | -40.71      | -13              | -27.71          | Horizontal   |
| 676.79          | -41.52      | -13              | -28.52          | Horizontal   |
| 3760.000        | -41.61      | -13              | -28.61          | Horizontal   |
| 5640.000        | -44.83      | -13              | -31.83          | Horizontal   |
| 7520.000        | -51.21      | -13              | -38.21          | Horizontal   |

Test Channel=HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 416.91          | -42.29      | -13              | -29.29          | Vertical     |
| 615.89          | -40.05      | -13              | -27.05          | Vertical     |
| 3819.600        | -39.52      | -13              | -26.52          | Vertical     |
| 5729.400        | -43.54      | -13              | -30.54          | Vertical     |
| 7639.200        | -49.83      | -13              | -36.83          | Vertical     |
| 415.35          | -41.04      | -13              | -28.04          | Horizontal   |
| 669.04          | -39.73      | -13              | -26.73          | Horizontal   |
| 3819.600        | -42.06      | -13              | -29.06          | Horizontal   |
| 5729.400        | -46.42      | -13              | -33.42          | Horizontal   |
| 7639.200        | -50.07      | -13              | -37.07          | Horizontal   |

**WCDMA**
**Test Data:**

Test Band=WCDMA850

Test Mode=UMTS/TM1

Test Channel=LCH

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 417.28                 | -42.46             | -13                     | -29.46                 | Vertical            |
| 645.72                 | -41.52             | -13                     | -28.52                 | Vertical            |
| 1652.800               | -39.80             | -13                     | -26.80                 | Vertical            |
| 2479.200               | -43.51             | -13                     | -30.51                 | Vertical            |
| 3305.600               | -48.67             | -13                     | -35.67                 | Vertical            |
| 414.39                 | -40.71             | -13                     | -27.71                 | Horizontal          |
| 606.86                 | -41.18             | -13                     | -28.18                 | Horizontal          |
| 1652.800               | -42.62             | -13                     | -29.62                 | Horizontal          |
| 2479.200               | -44.89             | -13                     | -31.89                 | Horizontal          |
| 3305.600               | -51.24             | -13                     | -38.24                 | Horizontal          |

Test Channel=MCH

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 428.46                 | -41.31             | -13                     | -28.31                 | Vertical            |
| 644.05                 | -40.98             | -13                     | -27.98                 | Vertical            |
| 1672.800               | -42.05             | -13                     | -29.05                 | Vertical            |
| 2509.200               | -44.51             | -13                     | -31.51                 | Vertical            |
| 3345.600               | -49.27             | -13                     | -36.27                 | Vertical            |
| 418.17                 | -41.97             | -13                     | -28.97                 | Horizontal          |
| 638.22                 | -41.48             | -13                     | -28.48                 | Horizontal          |
| 1672.800               | -42.10             | -13                     | -29.10                 | Horizontal          |
| 2509.200               | -46.23             | -13                     | -33.23                 | Horizontal          |
| 3345.600               | -51.03             | -13                     | -38.03                 | Horizontal          |

Test Channel=HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 438.20          | -40.61      | -13              | -27.61          | Vertical     |
| 654.67          | -41.58      | -13              | -28.58          | Vertical     |
| 1693.200        | -42.33      | -13              | -29.33          | Vertical     |
| 2539.800        | -42.43      | -13              | -29.43          | Vertical     |
| 3386.400        | -50.47      | -13              | -37.47          | Vertical     |
| 413.81          | -41.99      | -13              | -28.99          | Horizontal   |
| 627.80          | -41.47      | -13              | -28.47          | Horizontal   |
| 1693.200        | -43.12      | -13              | -30.12          | Horizontal   |
| 2539.800        | -45.83      | -13              | -32.83          | Horizontal   |
| 3386.400        | -50.60      | -13              | -37.60          | Horizontal   |

Test Band=WCDMA1900

Test Mode=UMTS/TM1

Test Channel=LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 432.38          | -41.73      | -13              | -28.73          | Vertical     |
| 631.58          | -41.33      | -13              | -28.33          | Vertical     |
| 3704.800        | -43.44      | -13              | -30.44          | Vertical     |
| 5557.200        | -44.41      | -13              | -31.41          | Vertical     |
| 7409.600        | -49.33      | -13              | -36.33          | Vertical     |
| 411.57          | -41.76      | -13              | -28.76          | Horizontal   |
| 688.82          | -41.41      | -13              | -28.41          | Horizontal   |
| 3704.800        | -43.28      | -13              | -30.28          | Horizontal   |
| 5557.200        | -45.88      | -13              | -32.88          | Horizontal   |
| 7409.600        | -50.58      | -13              | -37.58          | Horizontal   |

Test Channel=MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 416.66          | -40.97      | -13              | -27.97          | Vertical     |
| 620.66          | -39.76      | -13              | -26.76          | Vertical     |
| 3760.000        | -40.40      | -13              | -27.40          | Vertical     |
| 5640.000        | -42.70      | -13              | -29.70          | Vertical     |
| 7520.000        | -49.58      | -13              | -36.58          | Vertical     |
| 415.65          | -42.31      | -13              | -29.31          | Horizontal   |
| 626.50          | -41.11      | -13              | -28.11          | Horizontal   |
| 3760.000        | -41.79      | -13              | -28.79          | Horizontal   |
| 5640.000        | -46.39      | -13              | -33.39          | Horizontal   |
| 7520.000        | -51.23      | -13              | -38.23          | Horizontal   |

Test Channel=HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 414.30          | -40.71      | -13              | -27.71          | Vertical     |
| 603.25          | -40.30      | -13              | -27.30          | Vertical     |
| 3815.200        | -43.54      | -13              | -30.54          | Vertical     |
| 5722.800        | -42.07      | -13              | -29.07          | Vertical     |
| 7630.400        | -48.69      | -13              | -35.69          | Vertical     |
| 416.27          | -41.54      | -13              | -28.54          | Horizontal   |
| 610.77          | -41.23      | -13              | -28.23          | Horizontal   |
| 3815.200        | -43.43      | -13              | -30.43          | Horizontal   |
| 5722.800        | -45.28      | -13              | -32.28          | Horizontal   |
| 7630.400        | -50.07      | -13              | -37.07          | Horizontal   |

**LTE Band 2**
**Test Data:**

Through Pre-scan, find the 1RB#0 of data type and QPSK modulation is the worst case.

Channel Bandwidth: 1.4 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 410.67                 | -41.72             | -13                     | -28.72                 | Vertical            |
| 676.68                 | -40.48             | -13                     | -27.48                 | Vertical            |
| 3701.400               | -39.97             | -13                     | -26.97                 | Vertical            |
| 5552.100               | -41.83             | -13                     | -28.83                 | Vertical            |
| 7402.800               | -49.99             | -13                     | -36.99                 | Vertical            |
| 433.90                 | -42.04             | -13                     | -29.04                 | Horizontal          |
| 627.03                 | -41.12             | -13                     | -28.12                 | Horizontal          |
| 3701.400               | -51.17             | -13                     | -38.17                 | Horizontal          |
| 5552.100               | -44.80             | -13                     | -31.80                 | Horizontal          |
| 7402.800               | -51.14             | -13                     | -38.14                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 443.78                 | -41.02             | -13                     | -28.02                 | Vertical            |
| 685.94                 | -39.79             | -13                     | -26.79                 | Vertical            |
| 3760.000               | -43.46             | -13                     | -30.46                 | Vertical            |
| 5640.000               | -45.48             | -13                     | -32.48                 | Vertical            |
| 7520.000               | -49.28             | -13                     | -36.28                 | Vertical            |
| 414.48                 | -41.11             | -13                     | -28.11                 | Horizontal          |
| 678.26                 | -40.45             | -13                     | -27.45                 | Horizontal          |
| 3760.000               | -42.56             | -13                     | -29.56                 | Horizontal          |
| 5640.000               | -45.06             | -13                     | -32.06                 | Horizontal          |
| 7520.000               | -50.59             | -13                     | -37.59                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 421.25                 | -41.22             | -13                     | -28.22                 | Vertical            |
| 603.78                 | -40.37             | -13                     | -27.37                 | Vertical            |
| 3818.600               | -40.83             | -13                     | -27.83                 | Vertical            |
| 5727.900               | -43.17             | -13                     | -30.17                 | Vertical            |
| 7637.200               | -48.68             | -13                     | -35.68                 | Vertical            |
| 431.80                 | -40.86             | -13                     | -27.86                 | Horizontal          |
| 652.50                 | -41.16             | -13                     | -28.16                 | Horizontal          |
| 3818.600               | -42.99             | -13                     | -29.99                 | Horizontal          |
| 5727.900               | -44.64             | -13                     | -31.64                 | Horizontal          |
| 7637.200               | -49.99             | -13                     | -36.99                 | Horizontal          |

Channel Bandwidth: 3 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 424.95                 | -41.77             | -13                     | -28.77                 | Vertical            |
| 639.11                 | -39.81             | -13                     | -26.81                 | Vertical            |
| 3703.000               | -39.12             | -13                     | -26.12                 | Vertical            |
| 5554.500               | -41.95             | -13                     | -28.95                 | Vertical            |
| 7406.000               | -49.08             | -13                     | -36.08                 | Vertical            |
| 435.61                 | -40.78             | -13                     | -27.78                 | Horizontal          |
| 699.59                 | -41.28             | -13                     | -28.28                 | Horizontal          |
| 3703.000               | -42.43             | -13                     | -29.43                 | Horizontal          |
| 5554.500               | -45.53             | -13                     | -32.53                 | Horizontal          |
| 7406.000               | -49.87             | -13                     | -36.87                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 418.94                 | -41.10             | -13                     | -28.10                 | Vertical            |
| 682.47                 | -41.31             | -13                     | -28.31                 | Vertical            |
| 3760.000               | -41.43             | -13                     | -28.43                 | Vertical            |
| 5640.000               | -42.20             | -13                     | -29.20                 | Vertical            |
| 7520.000               | -50.16             | -13                     | -37.16                 | Vertical            |
| 428.99                 | -41.93             | -13                     | -28.93                 | Horizontal          |
| 613.85                 | -40.51             | -13                     | -27.51                 | Horizontal          |
| 3760.000               | -42.88             | -13                     | -29.88                 | Horizontal          |
| 5640.000               | -45.88             | -13                     | -32.88                 | Horizontal          |
| 7520.000               | -50.97             | -13                     | -37.97                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 421.31                 | -40.92             | -13                     | -27.92                 | Vertical            |
| 606.33                 | -41.50             | -13                     | -28.50                 | Vertical            |
| 3817.000               | -41.82             | -13                     | -28.82                 | Vertical            |
| 5725.500               | -40.87             | -13                     | -27.87                 | Vertical            |
| 7634.000               | -49.66             | -13                     | -36.66                 | Vertical            |
| 433.70                 | -41.52             | -13                     | -28.52                 | Horizontal          |
| 671.68                 | -41.53             | -13                     | -28.53                 | Horizontal          |
| 3817.000               | -43.04             | -13                     | -30.04                 | Horizontal          |
| 5725.500               | -46.25             | -13                     | -33.25                 | Horizontal          |
| 7634.000               | -50.48             | -13                     | -37.48                 | Horizontal          |

Channel Bandwidth: 5 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 436.06                 | -41.82             | -13                     | -28.82                 | Vertical            |
| 648.87                 | -40.76             | -13                     | -27.76                 | Vertical            |
| 3705.000               | -40.33             | -13                     | -27.33                 | Vertical            |
| 5557.500               | -41.94             | -13                     | -28.94                 | Vertical            |
| 7410.000               | -49.43             | -13                     | -36.43                 | Vertical            |
| 427.14                 | -41.60             | -13                     | -28.60                 | Horizontal          |
| 614.62                 | -41.60             | -13                     | -28.60                 | Horizontal          |
| 3705.000               | -51.34             | -13                     | -38.34                 | Horizontal          |
| 5557.500               | -46.48             | -13                     | -33.48                 | Horizontal          |
| 7410.000               | -50.09             | -13                     | -37.09                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 444.27                 | -40.81             | -13                     | -27.81                 | Vertical            |
| 644.07                 | -40.63             | -13                     | -27.63                 | Vertical            |
| 3760.000               | -42.60             | -13                     | -29.60                 | Vertical            |
| 5640.000               | -44.04             | -13                     | -31.04                 | Vertical            |
| 7520.000               | -50.27             | -13                     | -37.27                 | Vertical            |
| 411.45                 | -41.60             | -13                     | -28.60                 | Horizontal          |
| 639.43                 | -40.97             | -13                     | -27.97                 | Horizontal          |
| 3760.000               | -42.64             | -13                     | -29.64                 | Horizontal          |
| 5640.000               | -46.31             | -13                     | -33.31                 | Horizontal          |
| 7520.000               | -49.82             | -13                     | -36.82                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 441.98                 | -41.48             | -13                     | -28.48                 | Vertical            |
| 634.68                 | -41.37             | -13                     | -28.37                 | Vertical            |
| 3815.000               | -40.07             | -13                     | -27.07                 | Vertical            |
| 5722.500               | -42.46             | -13                     | -29.46                 | Vertical            |
| 7630.000               | -49.92             | -13                     | -36.92                 | Vertical            |
| 433.91                 | -42.50             | -13                     | -29.50                 | Horizontal          |
| 627.66                 | -39.90             | -13                     | -26.90                 | Horizontal          |
| 3815.000               | -42.88             | -13                     | -29.88                 | Horizontal          |
| 5722.500               | -45.17             | -13                     | -32.17                 | Horizontal          |
| 7630.000               | -51.43             | -13                     | -38.43                 | Horizontal          |

Channel Bandwidth: 10 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 422.14                 | -42.49             | -13                     | -29.49                 | Vertical            |
| 672.60                 | -40.58             | -13                     | -27.58                 | Vertical            |
| 3710.000               | -39.06             | -13                     | -26.06                 | Vertical            |
| 5565.000               | -43.26             | -13                     | -30.26                 | Vertical            |
| 7420.000               | -48.91             | -13                     | -35.91                 | Vertical            |
| 413.36                 | -40.80             | -13                     | -27.80                 | Horizontal          |
| 673.46                 | -41.23             | -13                     | -28.23                 | Horizontal          |
| 3710.000               | -42.26             | -13                     | -29.26                 | Horizontal          |
| 5565.000               | -46.30             | -13                     | -33.30                 | Horizontal          |
| 7420.000               | -51.23             | -13                     | -38.23                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 434.99                 | -40.63             | -13                     | -27.63                 | Vertical            |
| 686.08                 | -39.99             | -13                     | -26.99                 | Vertical            |
| 3760.000               | -41.98             | -13                     | -28.98                 | Vertical            |
| 5640.000               | -41.42             | -13                     | -28.42                 | Vertical            |
| 7520.000               | -50.09             | -13                     | -37.09                 | Vertical            |
| 434.02                 | -41.39             | -13                     | -28.39                 | Horizontal          |
| 668.46                 | -40.76             | -13                     | -27.76                 | Horizontal          |
| 3760.000               | -42.90             | -13                     | -29.90                 | Horizontal          |
| 5640.000               | -45.82             | -13                     | -32.82                 | Horizontal          |
| 7520.000               | -49.71             | -13                     | -36.71                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 434.59                 | -41.12             | -13                     | -28.12                 | Vertical            |
| 638.97                 | -39.84             | -13                     | -26.84                 | Vertical            |
| 3810.000               | -41.87             | -13                     | -28.87                 | Vertical            |
| 5715.000               | -43.31             | -13                     | -30.31                 | Vertical            |
| 7620.000               | -48.73             | -13                     | -35.73                 | Vertical            |
| 425.78                 | -40.81             | -13                     | -27.81                 | Horizontal          |
| 615.31                 | -40.26             | -13                     | -27.26                 | Horizontal          |
| 3810.000               | -42.75             | -13                     | -29.75                 | Horizontal          |
| 5715.000               | -45.44             | -13                     | -32.44                 | Horizontal          |
| 7620.000               | -49.67             | -13                     | -36.67                 | Horizontal          |

Channel Bandwidth: 15 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 435.91                 | -42.31             | -13                     | -29.31                 | Vertical            |
| 679.46                 | -41.48             | -13                     | -28.48                 | Vertical            |
| 3715.000               | -40.51             | -13                     | -27.51                 | Vertical            |
| 5572.500               | -42.20             | -13                     | -29.20                 | Vertical            |
| 7430.000               | -50.21             | -13                     | -37.21                 | Vertical            |
| 425.40                 | -42.28             | -13                     | -29.28                 | Horizontal          |
| 673.43                 | -41.24             | -13                     | -28.24                 | Horizontal          |
| 3715.000               | -50.55             | -13                     | -37.55                 | Horizontal          |
| 5572.500               | -46.45             | -13                     | -33.45                 | Horizontal          |
| 7430.000               | -50.73             | -13                     | -37.73                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 422.31                 | -41.18             | -13                     | -28.18                 | Vertical            |
| 618.33                 | -41.40             | -13                     | -28.40                 | Vertical            |
| 3760.000               | -43.58             | -13                     | -30.58                 | Vertical            |
| 5640.000               | -44.58             | -13                     | -31.58                 | Vertical            |
| 7520.000               | -48.98             | -13                     | -35.98                 | Vertical            |
| 439.99                 | -41.33             | -13                     | -28.33                 | Horizontal          |
| 688.87                 | -40.60             | -13                     | -27.60                 | Horizontal          |
| 3760.000               | -43.06             | -13                     | -30.06                 | Horizontal          |
| 5640.000               | -46.48             | -13                     | -33.48                 | Horizontal          |
| 7520.000               | -50.24             | -13                     | -37.24                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 425.09                 | -41.68             | -13                     | -28.68                 | Vertical            |
| 641.12                 | -40.10             | -13                     | -27.10                 | Vertical            |
| 3805.000               | -41.60             | -13                     | -28.60                 | Vertical            |
| 5707.500               | -42.27             | -13                     | -29.27                 | Vertical            |
| 7610.000               | -49.39             | -13                     | -36.39                 | Vertical            |
| 433.76                 | -40.79             | -13                     | -27.79                 | Horizontal          |
| 678.89                 | -40.66             | -13                     | -27.66                 | Horizontal          |
| 3805.000               | -41.88             | -13                     | -28.88                 | Horizontal          |
| 5707.500               | -46.49             | -13                     | -33.49                 | Horizontal          |
| 7610.000               | -50.39             | -13                     | -37.39                 | Horizontal          |

Channel Bandwidth: 20 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 438.56                 | -42.23             | -13                     | -29.23                 | Vertical            |
| 692.08                 | -40.34             | -13                     | -27.34                 | Vertical            |
| 3920.000               | -40.05             | -13                     | -27.05                 | Vertical            |
| 5880.000               | -42.14             | -13                     | -29.14                 | Vertical            |
| 7840.000               | -49.83             | -13                     | -36.83                 | Vertical            |
| 424.84                 | -41.26             | -13                     | -28.26                 | Horizontal          |
| 623.51                 | -40.44             | -13                     | -27.44                 | Horizontal          |
| 3920.000               | -42.66             | -13                     | -29.66                 | Horizontal          |
| 5880.000               | -46.22             | -13                     | -33.22                 | Horizontal          |
| 7840.000               | -50.05             | -13                     | -37.05                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 423.17                 | -41.22             | -13                     | -28.22                 | Vertical            |
| 616.62                 | -40.26             | -13                     | -27.26                 | Vertical            |
| 3760.000               | -39.82             | -13                     | -26.82                 | Vertical            |
| 5640.000               | -43.44             | -13                     | -30.44                 | Vertical            |
| 7520.000               | -49.96             | -13                     | -36.96                 | Vertical            |
| 411.86                 | -40.84             | -13                     | -27.84                 | Horizontal          |
| 613.99                 | -39.70             | -13                     | -26.70                 | Horizontal          |
| 3760.000               | -42.15             | -13                     | -29.15                 | Horizontal          |
| 5640.000               | -45.31             | -13                     | -32.31                 | Horizontal          |
| 7520.000               | -50.59             | -13                     | -37.59                 | Horizontal          |

## HCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 443.33          | -41.69      | -13              | -28.69          | Vertical     |
| 658.16          | -41.16      | -13              | -28.16          | Vertical     |
| 3800.000        | -41.21      | -13              | -28.21          | Vertical     |
| 5700.000        | -40.18      | -13              | -27.18          | Vertical     |
| 7600.000        | -49.91      | -13              | -36.91          | Vertical     |
| 415.35          | -41.60      | -13              | -28.60          | Horizontal   |
| 648.56          | -41.51      | -13              | -28.51          | Horizontal   |
| 3800.000        | -42.03      | -13              | -29.03          | Horizontal   |
| 5700.000        | -45.73      | -13              | -32.73          | Horizontal   |
| 7600.000        | -51.25      | -13              | -38.25          | Horizontal   |

**LTE Band 4**
**Test Data:**

Through Pre-scan, find the 1RB#0 of data type and QPSK modulation is the worst case.

Channel Bandwidth: 1.4 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 419.61                 | -40.79             | -13                     | -27.79                 | Vertical            |
| 651.37                 | -41.10             | -13                     | -28.10                 | Vertical            |
| 3421.400               | -38.98             | -13                     | -25.98                 | Vertical            |
| 5132.100               | -41.97             | -13                     | -28.97                 | Vertical            |
| 6842.800               | -49.51             | -13                     | -36.51                 | Vertical            |
| 420.47                 | -41.67             | -13                     | -28.67                 | Horizontal          |
| 631.33                 | -40.71             | -13                     | -27.71                 | Horizontal          |
| 3421.400               | -50.38             | -13                     | -37.38                 | Horizontal          |
| 5132.100               | -46.05             | -13                     | -33.05                 | Horizontal          |
| 6842.800               | -50.66             | -13                     | -37.66                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 428.46                 | -41.04             | -13                     | -28.04                 | Vertical            |
| 671.62                 | -39.93             | -13                     | -26.93                 | Vertical            |
| 3465.000               | -43.05             | -13                     | -30.05                 | Vertical            |
| 5197.500               | -44.22             | -13                     | -31.22                 | Vertical            |
| 6930.000               | -50.13             | -13                     | -37.13                 | Vertical            |
| 435.71                 | -40.70             | -13                     | -27.70                 | Horizontal          |
| 698.85                 | -40.83             | -13                     | -27.83                 | Horizontal          |
| 3465.000               | -43.04             | -13                     | -30.04                 | Horizontal          |
| 5197.500               | -46.36             | -13                     | -33.36                 | Horizontal          |
| 6930.000               | -51.08             | -13                     | -38.08                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 411.97                 | -42.05             | -13                     | -29.05                 | Vertical            |
| 639.40                 | -41.35             | -13                     | -28.35                 | Vertical            |
| 3508.600               | -42.06             | -13                     | -29.06                 | Vertical            |
| 5262.900               | -43.20             | -13                     | -30.20                 | Vertical            |
| 7017.200               | -50.57             | -13                     | -37.57                 | Vertical            |
| 412.70                 | -41.37             | -13                     | -28.37                 | Horizontal          |
| 671.49                 | -41.48             | -13                     | -28.48                 | Horizontal          |
| 3508.600               | -42.42             | -13                     | -29.42                 | Horizontal          |
| 5262.900               | -45.61             | -13                     | -32.61                 | Horizontal          |
| 7017.200               | -51.52             | -13                     | -38.52                 | Horizontal          |

Channel Bandwidth: 3 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 432.23                 | -42.54             | -13                     | -29.54                 | Vertical            |
| 636.16                 | -41.58             | -13                     | -28.58                 | Vertical            |
| 3423.000               | -40.15             | -13                     | -27.15                 | Vertical            |
| 5134.500               | -43.07             | -13                     | -30.07                 | Vertical            |
| 6846.000               | -50.32             | -13                     | -37.32                 | Vertical            |
| 417.87                 | -42.50             | -13                     | -29.50                 | Horizontal          |
| 676.08                 | -40.76             | -13                     | -27.76                 | Horizontal          |
| 3423.000               | -41.93             | -13                     | -28.93                 | Horizontal          |
| 5134.500               | -45.15             | -13                     | -32.15                 | Horizontal          |
| 6846.000               | -50.25             | -13                     | -37.25                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 444.36                 | -42.26             | -13                     | -29.26                 | Vertical            |
| 646.39                 | -39.65             | -13                     | -26.65                 | Vertical            |
| 3465.000               | -39.88             | -13                     | -26.88                 | Vertical            |
| 5197.500               | -41.33             | -13                     | -28.33                 | Vertical            |
| 6930.000               | -49.44             | -13                     | -36.44                 | Vertical            |
| 427.94                 | -41.92             | -13                     | -28.92                 | Horizontal          |
| 696.72                 | -40.10             | -13                     | -27.10                 | Horizontal          |
| 3465.000               | -42.99             | -13                     | -29.99                 | Horizontal          |
| 5197.500               | -46.46             | -13                     | -33.46                 | Horizontal          |
| 6930.000               | -50.97             | -13                     | -37.97                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 437.59                 | -40.93             | -13                     | -27.93                 | Vertical            |
| 659.43                 | -40.29             | -13                     | -27.29                 | Vertical            |
| 3507.000               | -42.29             | -13                     | -29.29                 | Vertical            |
| 5260.500               | -42.77             | -13                     | -29.77                 | Vertical            |
| 7014.000               | -49.75             | -13                     | -36.75                 | Vertical            |
| 425.01                 | -41.86             | -13                     | -28.86                 | Horizontal          |
| 633.23                 | -40.69             | -13                     | -27.69                 | Horizontal          |
| 3507.000               | -42.49             | -13                     | -29.49                 | Horizontal          |
| 5260.500               | -45.34             | -13                     | -32.34                 | Horizontal          |
| 7014.000               | -50.82             | -13                     | -37.82                 | Horizontal          |

Channel Bandwidth: 5 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 416.70                 | -41.89             | -13                     | -28.89                 | Vertical            |
| 669.16                 | -41.15             | -13                     | -28.15                 | Vertical            |
| 3425.000               | -38.64             | -13                     | -25.64                 | Vertical            |
| 5137.500               | -41.78             | -13                     | -28.78                 | Vertical            |
| 6850.000               | -50.56             | -13                     | -37.56                 | Vertical            |
| 438.10                 | -40.83             | -13                     | -27.83                 | Horizontal          |
| 643.77                 | -41.19             | -13                     | -28.19                 | Horizontal          |
| 3425.000               | -51.50             | -13                     | -38.50                 | Horizontal          |
| 5137.500               | -46.50             | -13                     | -33.50                 | Horizontal          |
| 6850.000               | -50.00             | -13                     | -37.00                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 416.53                 | -41.23             | -13                     | -28.23                 | Vertical            |
| 628.73                 | -40.98             | -13                     | -27.98                 | Vertical            |
| 3465.000               | -42.40             | -13                     | -29.40                 | Vertical            |
| 5197.500               | -44.20             | -13                     | -31.20                 | Vertical            |
| 6930.000               | -49.60             | -13                     | -36.60                 | Vertical            |
| 420.54                 | -41.04             | -13                     | -28.04                 | Horizontal          |
| 633.38                 | -41.31             | -13                     | -28.31                 | Horizontal          |
| 3465.000               | -42.62             | -13                     | -29.62                 | Horizontal          |
| 5197.500               | -45.01             | -13                     | -32.01                 | Horizontal          |
| 6930.000               | -51.42             | -13                     | -38.42                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 415.03                 | -41.07             | -13                     | -28.07                 | Vertical            |
| 686.97                 | -41.21             | -13                     | -28.21                 | Vertical            |
| 3505.000               | -41.68             | -13                     | -28.68                 | Vertical            |
| 5257.500               | -43.48             | -13                     | -30.48                 | Vertical            |
| 7010.000               | -49.79             | -13                     | -36.79                 | Vertical            |
| 412.21                 | -42.58             | -13                     | -29.58                 | Horizontal          |
| 698.06                 | -40.23             | -13                     | -27.23                 | Horizontal          |
| 3505.000               | -42.67             | -13                     | -29.67                 | Horizontal          |
| 5257.500               | -46.16             | -13                     | -33.16                 | Horizontal          |
| 7010.000               | -50.91             | -13                     | -37.91                 | Horizontal          |

Channel Bandwidth: 10 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 440.18                 | -41.20             | -13                     | -28.20                 | Vertical            |
| 663.64                 | -40.97             | -13                     | -27.97                 | Vertical            |
| 3430.000               | -39.93             | -13                     | -26.93                 | Vertical            |
| 5145.000               | -42.56             | -13                     | -29.56                 | Vertical            |
| 6860.000               | -50.19             | -13                     | -37.19                 | Vertical            |
| 419.80                 | -41.40             | -13                     | -28.40                 | Horizontal          |
| 641.26                 | -40.18             | -13                     | -27.18                 | Horizontal          |
| 3430.000               | -42.38             | -13                     | -29.38                 | Horizontal          |
| 5145.000               | -46.39             | -13                     | -33.39                 | Horizontal          |
| 6860.000               | -51.02             | -13                     | -38.02                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 435.27                 | -41.37             | -13                     | -28.37                 | Vertical            |
| 613.96                 | -39.76             | -13                     | -26.76                 | Vertical            |
| 3465.000               | -40.08             | -13                     | -27.08                 | Vertical            |
| 5197.500               | -42.01             | -13                     | -29.01                 | Vertical            |
| 6930.000               | -49.80             | -13                     | -36.80                 | Vertical            |
| 418.79                 | -41.83             | -13                     | -28.83                 | Horizontal          |
| 622.63                 | -40.10             | -13                     | -27.10                 | Horizontal          |
| 3465.000               | -42.74             | -13                     | -29.74                 | Horizontal          |
| 5197.500               | -44.81             | -13                     | -31.81                 | Horizontal          |
| 6930.000               | -50.25             | -13                     | -37.25                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 411.22                 | -41.97             | -13                     | -28.97                 | Vertical            |
| 654.37                 | -41.48             | -13                     | -28.48                 | Vertical            |
| 3500.000               | -42.55             | -13                     | -29.55                 | Vertical            |
| 5250.000               | -43.21             | -13                     | -30.21                 | Vertical            |
| 7000.000               | -49.90             | -13                     | -36.90                 | Vertical            |
| 432.40                 | -40.71             | -13                     | -27.71                 | Horizontal          |
| 684.46                 | -40.44             | -13                     | -27.44                 | Horizontal          |
| 3500.000               | -43.51             | -13                     | -30.51                 | Horizontal          |
| 5250.000               | -46.31             | -13                     | -33.31                 | Horizontal          |
| 7000.000               | -50.92             | -13                     | -37.92                 | Horizontal          |

Channel Bandwidth: 15 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 441.80                 | -42.12             | -13                     | -29.12                 | Vertical            |
| 660.87                 | -40.36             | -13                     | -27.36                 | Vertical            |
| 3435.000               | -39.72             | -13                     | -26.72                 | Vertical            |
| 5152.500               | -43.39             | -13                     | -30.39                 | Vertical            |
| 6870.000               | -48.92             | -13                     | -35.92                 | Vertical            |
| 423.01                 | -40.83             | -13                     | -27.83                 | Horizontal          |
| 612.70                 | -41.55             | -13                     | -28.55                 | Horizontal          |
| 3435.000               | -50.76             | -13                     | -37.76                 | Horizontal          |
| 5152.500               | -45.52             | -13                     | -32.52                 | Horizontal          |
| 6870.000               | -50.27             | -13                     | -37.27                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 422.38                 | -40.96             | -13                     | -27.96                 | Vertical            |
| 670.95                 | -40.20             | -13                     | -27.20                 | Vertical            |
| 3465.000               | -42.79             | -13                     | -29.79                 | Vertical            |
| 5197.500               | -44.98             | -13                     | -31.98                 | Vertical            |
| 6930.000               | -50.16             | -13                     | -37.16                 | Vertical            |
| 411.38                 | -42.32             | -13                     | -29.32                 | Horizontal          |
| 676.32                 | -40.15             | -13                     | -27.15                 | Horizontal          |
| 3465.000               | -43.48             | -13                     | -30.48                 | Horizontal          |
| 5197.500               | -45.18             | -13                     | -32.18                 | Horizontal          |
| 6930.000               | -51.12             | -13                     | -38.12                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 432.55                 | -40.85             | -13                     | -27.85                 | Vertical            |
| 668.29                 | -40.23             | -13                     | -27.23                 | Vertical            |
| 3495.000               | -40.34             | -13                     | -27.34                 | Vertical            |
| 5242.500               | -42.21             | -13                     | -29.21                 | Vertical            |
| 6990.000               | -48.66             | -13                     | -35.66                 | Vertical            |
| 410.57                 | -41.90             | -13                     | -28.90                 | Horizontal          |
| 646.67                 | -40.15             | -13                     | -27.15                 | Horizontal          |
| 3495.000               | -41.74             | -13                     | -28.74                 | Horizontal          |
| 5242.500               | -46.10             | -13                     | -33.10                 | Horizontal          |
| 6990.000               | -50.00             | -13                     | -37.00                 | Horizontal          |

Channel Bandwidth: 20 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 424.57                 | -41.85             | -13                     | -28.85                 | Vertical            |
| 606.77                 | -40.89             | -13                     | -27.89                 | Vertical            |
| 3440.000               | -39.85             | -13                     | -26.85                 | Vertical            |
| 5160.000               | -42.08             | -13                     | -29.08                 | Vertical            |
| 6880.000               | -49.11             | -13                     | -36.11                 | Vertical            |
| 410.59                 | -42.14             | -13                     | -29.14                 | Horizontal          |
| 640.28                 | -40.91             | -13                     | -27.91                 | Horizontal          |
| 3440.000               | -42.10             | -13                     | -29.10                 | Horizontal          |
| 5160.000               | -44.74             | -13                     | -31.74                 | Horizontal          |
| 6880.000               | -49.61             | -13                     | -36.61                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 418.68                 | -40.85             | -13                     | -27.85                 | Vertical            |
| 622.81                 | -39.90             | -13                     | -26.90                 | Vertical            |
| 3465.000               | -42.34             | -13                     | -29.34                 | Vertical            |
| 5197.500               | -42.22             | -13                     | -29.22                 | Vertical            |
| 6930.000               | -48.99             | -13                     | -35.99                 | Vertical            |
| 410.60                 | -41.40             | -13                     | -28.40                 | Horizontal          |
| 668.85                 | -40.41             | -13                     | -27.41                 | Horizontal          |
| 3465.000               | -43.39             | -13                     | -30.39                 | Horizontal          |
| 5197.500               | -45.10             | -13                     | -32.10                 | Horizontal          |
| 6930.000               | -49.75             | -13                     | -36.75                 | Horizontal          |

## HCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 440.82          | -40.95      | -13              | -27.95          | Vertical     |
| 649.29          | -40.67      | -13              | -27.67          | Vertical     |
| 3490.000        | -39.65      | -13              | -26.65          | Vertical     |
| 5235.000        | -42.06      | -13              | -29.06          | Vertical     |
| 6980.000        | -50.08      | -13              | -37.08          | Vertical     |
| 435.69          | -41.43      | -13              | -28.43          | Horizontal   |
| 616.04          | -40.07      | -13              | -27.07          | Horizontal   |
| 3490.000        | -43.23      | -13              | -30.23          | Horizontal   |
| 5235.000        | -46.04      | -13              | -33.04          | Horizontal   |
| 6980.000        | -50.69      | -13              | -37.69          | Horizontal   |

**LTE Band 5**
**Test Data:**

Through Pre-scan, find the 1RB#0 of data type and QPSK modulation is the worst case.

Channel Bandwidth: 1.4 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 420.94                 | -41.70             | -13                     | -28.70                 | Vertical            |
| 662.39                 | -41.34             | -13                     | -28.34                 | Vertical            |
| 1649.400               | -40.27             | -13                     | -27.27                 | Vertical            |
| 2474.100               | -43.27             | -13                     | -30.27                 | Vertical            |
| 3298.800               | -49.67             | -13                     | -36.67                 | Vertical            |
| 421.17                 | -42.04             | -13                     | -29.04                 | Horizontal          |
| 659.24                 | -40.38             | -13                     | -27.38                 | Horizontal          |
| 1649.400               | -51.57             | -13                     | -38.57                 | Horizontal          |
| 2474.100               | -46.17             | -13                     | -33.17                 | Horizontal          |
| 3298.800               | -50.95             | -13                     | -37.95                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 438.89                 | -40.78             | -13                     | -27.78                 | Vertical            |
| 682.94                 | -40.16             | -13                     | -27.16                 | Vertical            |
| 1673.000               | -41.89             | -13                     | -28.89                 | Vertical            |
| 2509.500               | -45.22             | -13                     | -32.22                 | Vertical            |
| 3346.000               | -49.30             | -13                     | -36.30                 | Vertical            |
| 440.83                 | -42.33             | -13                     | -29.33                 | Horizontal          |
| 684.89                 | -41.32             | -13                     | -28.32                 | Horizontal          |
| 1673.000               | -42.19             | -13                     | -29.19                 | Horizontal          |
| 2509.500               | -46.47             | -13                     | -33.47                 | Horizontal          |
| 3346.000               | -51.06             | -13                     | -38.06                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 430.67                 | -40.71             | -13                     | -27.71                 | Vertical            |
| 603.59                 | -40.93             | -13                     | -27.93                 | Vertical            |
| 1696.600               | -41.15             | -13                     | -28.15                 | Vertical            |
| 2544.900               | -43.21             | -13                     | -30.21                 | Vertical            |
| 3393.200               | -49.48             | -13                     | -36.48                 | Vertical            |
| 415.30                 | -40.79             | -13                     | -27.79                 | Horizontal          |
| 690.38                 | -41.56             | -13                     | -28.56                 | Horizontal          |
| 1696.600               | -42.00             | -13                     | -29.00                 | Horizontal          |
| 2544.900               | -45.67             | -13                     | -32.67                 | Horizontal          |
| 3393.200               | -50.89             | -13                     | -37.89                 | Horizontal          |

Channel Bandwidth: 3 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 416.21                 | -41.85             | -13                     | -28.85                 | Vertical            |
| 645.00                 | -39.69             | -13                     | -26.69                 | Vertical            |
| 1651.000               | -40.15             | -13                     | -27.15                 | Vertical            |
| 2476.500               | -43.18             | -13                     | -30.18                 | Vertical            |
| 3302.000               | -49.36             | -13                     | -36.36                 | Vertical            |
| 441.54                 | -41.47             | -13                     | -28.47                 | Horizontal          |
| 699.20                 | -40.51             | -13                     | -27.51                 | Horizontal          |
| 1651.000               | -42.43             | -13                     | -29.43                 | Horizontal          |
| 2476.500               | -45.31             | -13                     | -32.31                 | Horizontal          |
| 3302.000               | -49.63             | -13                     | -36.63                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 425.16                 | -41.81             | -13                     | -28.81                 | Vertical            |
| 679.24                 | -41.39             | -13                     | -28.39                 | Vertical            |
| 1673.000               | -40.92             | -13                     | -27.92                 | Vertical            |
| 2509.500               | -42.20             | -13                     | -29.20                 | Vertical            |
| 3346.000               | -50.23             | -13                     | -37.23                 | Vertical            |
| 412.21                 | -42.49             | -13                     | -29.49                 | Horizontal          |
| 653.80                 | -41.29             | -13                     | -28.29                 | Horizontal          |
| 1673.000               | -42.19             | -13                     | -29.19                 | Horizontal          |
| 2509.500               | -45.95             | -13                     | -32.95                 | Horizontal          |
| 3346.000               | -49.86             | -13                     | -36.86                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 432.08                 | -41.64             | -13                     | -28.64                 | Vertical            |
| 644.24                 | -40.87             | -13                     | -27.87                 | Vertical            |
| 1695.000               | -41.49             | -13                     | -28.49                 | Vertical            |
| 2542.500               | -42.35             | -13                     | -29.35                 | Vertical            |
| 3390.000               | -49.70             | -13                     | -36.70                 | Vertical            |
| 419.46                 | -41.49             | -13                     | -28.49                 | Horizontal          |
| 610.60                 | -40.64             | -13                     | -27.64                 | Horizontal          |
| 1695.000               | -42.39             | -13                     | -29.39                 | Horizontal          |
| 2542.500               | -44.87             | -13                     | -31.87                 | Horizontal          |
| 3390.000               | -50.59             | -13                     | -37.59                 | Horizontal          |

Channel Bandwidth: 5 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 431.57                 | -41.46             | -13                     | -28.46                 | Vertical            |
| 643.59                 | -41.10             | -13                     | -28.10                 | Vertical            |
| 1653.000               | -39.15             | -13                     | -26.15                 | Vertical            |
| 2479.500               | -42.14             | -13                     | -29.14                 | Vertical            |
| 3306.000               | -48.81             | -13                     | -35.81                 | Vertical            |
| 436.34                 | -42.21             | -13                     | -29.21                 | Horizontal          |
| 600.82                 | -39.67             | -13                     | -26.67                 | Horizontal          |
| 1653.000               | -51.02             | -13                     | -38.02                 | Horizontal          |
| 2479.500               | -46.57             | -13                     | -33.57                 | Horizontal          |
| 3306.000               | -50.75             | -13                     | -37.75                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 443.80                 | -42.18             | -13                     | -29.18                 | Vertical            |
| 654.48                 | -40.61             | -13                     | -27.61                 | Vertical            |
| 1673.000               | -42.13             | -13                     | -29.13                 | Vertical            |
| 2509.500               | -44.45             | -13                     | -31.45                 | Vertical            |
| 3346.000               | -50.55             | -13                     | -37.55                 | Vertical            |
| 444.55                 | -40.79             | -13                     | -27.79                 | Horizontal          |
| 690.90                 | -40.83             | -13                     | -27.83                 | Horizontal          |
| 1673.000               | -42.06             | -13                     | -29.06                 | Horizontal          |
| 2509.500               | -45.51             | -13                     | -32.51                 | Horizontal          |
| 3346.000               | -49.80             | -13                     | -36.80                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 441.94                 | -41.87             | -13                     | -28.87                 | Vertical            |
| 617.28                 | -39.95             | -13                     | -26.95                 | Vertical            |
| 1693.000               | -41.20             | -13                     | -28.20                 | Vertical            |
| 2539.500               | -42.29             | -13                     | -29.29                 | Vertical            |
| 3386.000               | -49.55             | -13                     | -36.55                 | Vertical            |
| 436.16                 | -41.20             | -13                     | -28.20                 | Horizontal          |
| 698.01                 | -41.12             | -13                     | -28.12                 | Horizontal          |
| 1693.000               | -42.96             | -13                     | -29.96                 | Horizontal          |
| 2539.500               | -46.14             | -13                     | -33.14                 | Horizontal          |
| 3386.000               | -51.20             | -13                     | -38.20                 | Horizontal          |

Channel Bandwidth: 10 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 425.12                 | -41.14             | -13                     | -28.14                 | Vertical            |
| 624.85                 | -40.00             | -13                     | -27.00                 | Vertical            |
| 1658.000               | -39.26             | -13                     | -26.26                 | Vertical            |
| 2487.000               | -43.40             | -13                     | -30.40                 | Vertical            |
| 3316.000               | -49.20             | -13                     | -36.20                 | Vertical            |
| 443.48                 | -42.41             | -13                     | -29.41                 | Horizontal          |
| 671.88                 | -41.28             | -13                     | -28.28                 | Horizontal          |
| 1658.000               | -41.88             | -13                     | -28.88                 | Horizontal          |
| 2487.000               | -44.80             | -13                     | -31.80                 | Horizontal          |
| 3316.000               | -50.72             | -13                     | -37.72                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 436.17                 | -41.66             | -13                     | -28.66                 | Vertical            |
| 655.42                 | -40.25             | -13                     | -27.25                 | Vertical            |
| 1673.000               | -40.93             | -13                     | -27.93                 | Vertical            |
| 2509.500               | -42.93             | -13                     | -29.93                 | Vertical            |
| 3346.000               | -49.30             | -13                     | -36.30                 | Vertical            |
| 425.10                 | -42.15             | -13                     | -29.15                 | Horizontal          |
| 674.82                 | -40.89             | -13                     | -27.89                 | Horizontal          |
| 1673.000               | -42.27             | -13                     | -29.27                 | Horizontal          |
| 2509.500               | -44.97             | -13                     | -31.97                 | Horizontal          |
| 3346.000               | -51.26             | -13                     | -38.26                 | Horizontal          |

## HCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 417.18          | -41.87      | -13              | -28.87          | Vertical     |
| 611.85          | -41.11      | -13              | -28.11          | Vertical     |
| 1688.000        | -39.69      | -13              | -26.69          | Vertical     |
| 2532.000        | -42.28      | -13              | -29.28          | Vertical     |
| 3376.000        | -48.76      | -13              | -35.76          | Vertical     |
| 439.43          | -40.96      | -13              | -27.96          | Horizontal   |
| 608.82          | -39.70      | -13              | -26.70          | Horizontal   |
| 1688.000        | -42.24      | -13              | -29.24          | Horizontal   |
| 2532.000        | -45.30      | -13              | -32.30          | Horizontal   |
| 3376.000        | -51.53      | -13              | -38.53          | Horizontal   |

**LTE Band 12**
**Test Data:**

Through Pre-scan, find the 1RB#0 of data type and QPSK modulation is the worst case.

Channel Bandwidth: 1.4 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 441.25                 | -42.17             | -13                     | -29.17                 | Vertical            |
| 609.23                 | -40.57             | -13                     | -27.57                 | Vertical            |
| 1399.400               | -38.96             | -13                     | -25.96                 | Vertical            |
| 2099.100               | -42.32             | -13                     | -29.32                 | Vertical            |
| 2798.800               | -50.46             | -13                     | -37.46                 | Vertical            |
| 418.95                 | -40.72             | -13                     | -27.72                 | Horizontal          |
| 665.40                 | -40.96             | -13                     | -27.96                 | Horizontal          |
| 1399.400               | -50.51             | -13                     | -37.51                 | Horizontal          |
| 2099.100               | -45.82             | -13                     | -32.82                 | Horizontal          |
| 2798.800               | -51.03             | -13                     | -38.03                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 432.29                 | -42.33             | -13                     | -29.33                 | Vertical            |
| 619.61                 | -40.67             | -13                     | -27.67                 | Vertical            |
| 1415.000               | -42.56             | -13                     | -29.56                 | Vertical            |
| 2122.500               | -44.56             | -13                     | -31.56                 | Vertical            |
| 2830.000               | -49.34             | -13                     | -36.34                 | Vertical            |
| 413.48                 | -42.09             | -13                     | -29.09                 | Horizontal          |
| 634.47                 | -41.19             | -13                     | -28.19                 | Horizontal          |
| 1415.000               | -43.57             | -13                     | -30.57                 | Horizontal          |
| 2122.500               | -46.27             | -13                     | -33.27                 | Horizontal          |
| 2830.000               | -50.69             | -13                     | -37.69                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 416.17                 | -40.80             | -13                     | -27.80                 | Vertical            |
| 620.54                 | -40.72             | -13                     | -27.72                 | Vertical            |
| 1430.600               | -40.16             | -13                     | -27.16                 | Vertical            |
| 2145.900               | -42.48             | -13                     | -29.48                 | Vertical            |
| 2861.200               | -48.72             | -13                     | -35.72                 | Vertical            |
| 422.18                 | -42.17             | -13                     | -29.17                 | Horizontal          |
| 698.57                 | -41.26             | -13                     | -28.26                 | Horizontal          |
| 1430.600               | -43.27             | -13                     | -30.27                 | Horizontal          |
| 2145.900               | -45.93             | -13                     | -32.93                 | Horizontal          |
| 2861.200               | -50.34             | -13                     | -37.34                 | Horizontal          |

Channel Bandwidth: 3 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 436.71                 | -41.46             | -13                     | -28.46                 | Vertical            |
| 672.17                 | -39.88             | -13                     | -26.88                 | Vertical            |
| 1401.000               | -39.15             | -13                     | -26.15                 | Vertical            |
| 2101.500               | -42.03             | -13                     | -29.03                 | Vertical            |
| 2802.000               | -50.05             | -13                     | -37.05                 | Vertical            |
| 438.68                 | -41.52             | -13                     | -28.52                 | Horizontal          |
| 602.03                 | -41.32             | -13                     | -28.32                 | Horizontal          |
| 1401.000               | -42.95             | -13                     | -29.95                 | Horizontal          |
| 2101.500               | -46.00             | -13                     | -33.00                 | Horizontal          |
| 2802.000               | -50.83             | -13                     | -37.83                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 421.76                 | -42.07             | -13                     | -29.07                 | Vertical            |
| 624.74                 | -41.48             | -13                     | -28.48                 | Vertical            |
| 1415.000               | -40.62             | -13                     | -27.62                 | Vertical            |
| 2122.500               | -41.32             | -13                     | -28.32                 | Vertical            |
| 2830.000               | -49.59             | -13                     | -36.59                 | Vertical            |
| 426.14                 | -42.23             | -13                     | -29.23                 | Horizontal          |
| 682.33                 | -40.50             | -13                     | -27.50                 | Horizontal          |
| 1415.000               | -42.94             | -13                     | -29.94                 | Horizontal          |
| 2122.500               | -45.89             | -13                     | -32.89                 | Horizontal          |
| 2830.000               | -50.93             | -13                     | -37.93                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 436.95                 | -41.85             | -13                     | -28.85                 | Vertical            |
| 658.95                 | -40.77             | -13                     | -27.77                 | Vertical            |
| 1429.000               | -40.27             | -13                     | -27.27                 | Vertical            |
| 2143.500               | -43.16             | -13                     | -30.16                 | Vertical            |
| 2858.000               | -50.44             | -13                     | -37.44                 | Vertical            |
| 411.48                 | -42.57             | -13                     | -29.57                 | Horizontal          |
| 699.37                 | -40.66             | -13                     | -27.66                 | Horizontal          |
| 1429.000               | -41.84             | -13                     | -28.84                 | Horizontal          |
| 2143.500               | -45.75             | -13                     | -32.75                 | Horizontal          |
| 2858.000               | -50.09             | -13                     | -37.09                 | Horizontal          |

Channel Bandwidth: 5 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 417.34                 | -41.19             | -13                     | -28.19                 | Vertical            |
| 672.44                 | -40.72             | -13                     | -27.72                 | Vertical            |
| 1403.000               | -39.02             | -13                     | -26.02                 | Vertical            |
| 2104.500               | -42.26             | -13                     | -29.26                 | Vertical            |
| 2806.000               | -48.98             | -13                     | -35.98                 | Vertical            |
| 412.31                 | -41.98             | -13                     | -28.98                 | Horizontal          |
| 618.17                 | -41.37             | -13                     | -28.37                 | Horizontal          |
| 1403.000               | -49.90             | -13                     | -36.90                 | Horizontal          |
| 2104.500               | -44.77             | -13                     | -31.77                 | Horizontal          |
| 2806.000               | -49.83             | -13                     | -36.83                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 439.81                 | -42.05             | -13                     | -29.05                 | Vertical            |
| 671.82                 | -40.59             | -13                     | -27.59                 | Vertical            |
| 1415.000               | -41.73             | -13                     | -28.73                 | Vertical            |
| 2122.500               | -44.03             | -13                     | -31.03                 | Vertical            |
| 2830.000               | -49.36             | -13                     | -36.36                 | Vertical            |
| 414.19                 | -42.26             | -13                     | -29.26                 | Horizontal          |
| 610.60                 | -39.81             | -13                     | -26.81                 | Horizontal          |
| 1415.000               | -42.42             | -13                     | -29.42                 | Horizontal          |
| 2122.500               | -45.25             | -13                     | -32.25                 | Horizontal          |
| 2830.000               | -51.45             | -13                     | -38.45                 | Horizontal          |

**HCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 433.95                 | -41.90             | -13                     | -28.90                 | Vertical            |
| 629.19                 | -41.12             | -13                     | -28.12                 | Vertical            |
| 1427.000               | -40.68             | -13                     | -27.68                 | Vertical            |
| 2140.500               | -41.61             | -13                     | -28.61                 | Vertical            |
| 2854.000               | -49.15             | -13                     | -36.15                 | Vertical            |
| 422.10                 | -40.97             | -13                     | -27.97                 | Horizontal          |
| 603.71                 | -39.82             | -13                     | -26.82                 | Horizontal          |
| 1427.000               | -43.42             | -13                     | -30.42                 | Horizontal          |
| 2140.500               | -45.18             | -13                     | -32.18                 | Horizontal          |
| 2854.000               | -51.00             | -13                     | -38.00                 | Horizontal          |

Channel Bandwidth: 10 MHz

**LCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 427.02                 | -40.82             | -13                     | -27.82                 | Vertical            |
| 601.42                 | -40.79             | -13                     | -27.79                 | Vertical            |
| 1408.000               | -38.97             | -13                     | -25.97                 | Vertical            |
| 2112.000               | -43.49             | -13                     | -30.49                 | Vertical            |
| 2816.000               | -50.50             | -13                     | -37.50                 | Vertical            |
| 422.20                 | -41.85             | -13                     | -28.85                 | Horizontal          |
| 666.92                 | -39.83             | -13                     | -26.83                 | Horizontal          |
| 1408.000               | -41.73             | -13                     | -28.73                 | Horizontal          |
| 2112.000               | -45.06             | -13                     | -32.06                 | Horizontal          |
| 2816.000               | -49.73             | -13                     | -36.73                 | Horizontal          |

**MCH\_QPSK\_1RB#0**

| <b>Frequency (MHz)</b> | <b>Level (dBm)</b> | <b>Limit Line (dBm)</b> | <b>Over Limit (dB)</b> | <b>Polarization</b> |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 417.04                 | -42.48             | -13                     | -29.48                 | Vertical            |
| 699.80                 | -40.33             | -13                     | -27.33                 | Vertical            |
| 1415.000               | -42.20             | -13                     | -29.20                 | Vertical            |
| 2122.500               | -42.76             | -13                     | -29.76                 | Vertical            |
| 2830.000               | -49.65             | -13                     | -36.65                 | Vertical            |
| 425.60                 | -41.44             | -13                     | -28.44                 | Horizontal          |
| 623.21                 | -40.76             | -13                     | -27.76                 | Horizontal          |
| 1415.000               | -42.29             | -13                     | -29.29                 | Horizontal          |
| 2122.500               | -45.31             | -13                     | -32.31                 | Horizontal          |
| 2830.000               | -51.18             | -13                     | -38.18                 | Horizontal          |

## HCH\_QPSK\_1RB#0

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 428.78          | -42.37      | -13              | -29.37          | Vertical     |
| 607.59          | -39.61      | -13              | -26.61          | Vertical     |
| 1422.000        | -40.15      | -13              | -27.15          | Vertical     |
| 2133.000        | -39.80      | -13              | -26.80          | Vertical     |
| 2844.000        | -49.41      | -13              | -36.41          | Vertical     |
| 429.25          | -40.93      | -13              | -27.93          | Horizontal   |
| 605.63          | -40.10      | -13              | -27.10          | Horizontal   |
| 1422.000        | -42.43      | -13              | -29.43          | Horizontal   |
| 2133.000        | -45.90      | -13              | -32.90          | Horizontal   |
| 2844.000        | -51.41      | -13              | -38.41          | Horizontal   |

## 7 Frequency Stability

**GSM**
**Test Data:**
**Frequency Error vs. Voltage:**

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|-----------|-----------|--------------|------------|------------|-----------------|---------------------|-------------|---------|
| GSM850    | TM1       | LCH          | TN         | VL         | 4.57            | 0.005545            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 4.96            | 0.006018            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 5.25            | 0.006370            | $\pm 2.5$   | PASS    |
|           |           | MCH          | TN         | VL         | 9.31            | 0.011128            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 13.25           | 0.015838            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 11.61           | 0.013878            | $\pm 2.5$   | PASS    |
|           |           | HCH          | TN         | VL         | 11              | 0.012959            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 11.16           | 0.013148            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 8.8             | 0.010368            | $\pm 2.5$   | PASS    |

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|-----------|-----------|--------------|------------|------------|-----------------|---------------------|-------------|---------|
| GSM850    | TM2       | LCH          | TN         | VL         | 7.99            | 0.009694            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 7.93            | 0.009621            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 9.26            | 0.011235            | $\pm 2.5$   | PASS    |
|           |           | MCH          | TN         | VL         | 9.36            | 0.011188            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 9.49            | 0.011344            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 7.83            | 0.009359            | $\pm 2.5$   | PASS    |
|           |           | HCH          | TN         | VL         | 9.03            | 0.010639            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 8.23            | 0.009696            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 7               | 0.008247            | $\pm 2.5$   | PASS    |

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|-----------|-----------|--------------|------------|------------|-----------------|---------------------|-------------|---------|
| GSM1900   | TM1       | LCH          | TN         | VL         | 9.35            | 0.005054            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 12.81           | 0.006924            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 15.53           | 0.008394            | $\pm 2.5$   | PASS    |
|           |           | MCH          | TN         | VL         | 13.32           | 0.007085            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 12.95           | 0.006888            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 14.48           | 0.007702            | $\pm 2.5$   | PASS    |
|           |           | HCH          | TN         | VL         | 12.55           | 0.006571            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 10.44           | 0.005467            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 9.84            | 0.005152            | $\pm 2.5$   | PASS    |

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|-----------|-----------|--------------|------------|------------|-----------------|---------------------|-------------|---------|
| GSM1900   | TM2       | LCH          | TN         | VL         | 11.85           | 0.006405            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 12.92           | 0.006983            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 11.3            | 0.006107            | $\pm 2.5$   | PASS    |
|           |           | MCH          | TN         | VL         | 13.51           | 0.007186            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 13.3            | 0.007074            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 11.33           | 0.006027            | $\pm 2.5$   | PASS    |
|           |           | HCH          | TN         | VL         | 9.31            | 0.004875            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VN         | 15.3            | 0.008011            | $\pm 2.5$   | PASS    |
|           |           |              | TN         | VH         | 8.18            | 0.004283            | $\pm 2.5$   | PASS    |

**Frequency Error vs. Temperature:**

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|-----------|-----------|--------------|------------|-----------|-----------------|---------------------|-------------|---------|
| GSM850    | TM1       | LCH          | VN         | -30       | 5.78            | 0.007013            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -20       | 8.06            | 0.009779            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -10       | 4.97            | 0.006030            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 0         | 9.82            | 0.011915            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 10        | 12.59           | 0.015275            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 20        | 11.98           | 0.014535            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 30        | 8.36            | 0.010143            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 40        | 11.44           | 0.013880            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 50        | 7.17            | 0.008699            | $\pm 2.5$   | PASS    |
| GSM850    | TM1       | MCH          | VN         | -30       | 12.89           | 0.015408            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -20       | 11              | 0.013148            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -10       | 9.04            | 0.010806            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 0         | 11.1            | 0.013268            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 10        | 10.74           | 0.012838            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 20        | 11.25           | 0.013447            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 30        | 9.26            | 0.011069            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 40        | 11.63           | 0.013902            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 50        | 10.45           | 0.012491            | $\pm 2.5$   | PASS    |
| GSM850    | TM1       | HCH          | VN         | -30       | 4.91            | 0.005785            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -20       | 11.46           | 0.013501            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -10       | 11.2            | 0.013195            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 0         | 9.57            | 0.011275            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 10        | 10.04           | 0.011828            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 20        | 9.79            | 0.011534            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 30        | 9.82            | 0.011569            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 40        | 10.61           | 0.012500            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 50        | 9.95            | 0.011722            | $\pm 2.5$   | PASS    |



| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp . | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|-----------|-----------|--------------|------------|-------------|-----------------|---------------------|-------------|---------|
| GSM850    | TM2       | LCH          | VN         | -30         | 6.73            | 0.008165            | ±2.5        | PASS    |
|           |           |              | VN         | -20         | 10.4            | 0.012618            | ±2.5        | PASS    |
|           |           |              | VN         | -10         | 7               | 0.008493            | ±2.5        | PASS    |
|           |           |              | VN         | 0           | 8.65            | 0.010495            | ±2.5        | PASS    |
|           |           |              | VN         | 10          | 10              | 0.012133            | ±2.5        | PASS    |
|           |           |              | VN         | 20          | 4.01            | 0.004865            | ±2.5        | PASS    |
|           |           |              | VN         | 30          | 7.12            | 0.008639            | ±2.5        | PASS    |
|           |           |              | VN         | 40          | 5.98            | 0.007256            | ±2.5        | PASS    |
|           |           |              | VN         | 50          | 4.46            | 0.005411            | ±2.5        | PASS    |
| GSM850    | TM2       | MCH          | VN         | -30         | 10.12           | 0.012097            | ±2.5        | PASS    |
|           |           |              | VN         | -20         | 8.35            | 0.009981            | ±2.5        | PASS    |
|           |           |              | VN         | -10         | 10.67           | 0.012754            | ±2.5        | PASS    |
|           |           |              | VN         | 0           | 11.2            | 0.013388            | ±2.5        | PASS    |
|           |           |              | VN         | 10          | 10.46           | 0.012503            | ±2.5        | PASS    |
|           |           |              | VN         | 20          | 7.2             | 0.008606            | ±2.5        | PASS    |
|           |           |              | VN         | 30          | 7.34            | 0.008774            | ±2.5        | PASS    |
|           |           |              | VN         | 40          | 7.22            | 0.008630            | ±2.5        | PASS    |
|           |           |              | VN         | 50          | 3.75            | 0.004482            | ±2.5        | PASS    |
| GSM850    | TM2       | HCH          | VN         | -30         | 7.95            | 0.009366            | ±2.5        | PASS    |
|           |           |              | VN         | -20         | 7.55            | 0.008895            | ±2.5        | PASS    |
|           |           |              | VN         | -10         | 9.84            | 0.011593            | ±2.5        | PASS    |
|           |           |              | VN         | 0           | 10.53           | 0.012406            | ±2.5        | PASS    |
|           |           |              | VN         | 10          | 9.64            | 0.011357            | ±2.5        | PASS    |
|           |           |              | VN         | 20          | 7.83            | 0.009225            | ±2.5        | PASS    |
|           |           |              | VN         | 30          | -10.5           | -0.012370           | ±2.5        | PASS    |
|           |           |              | VN         | 40          | 3.33            | 0.003923            | ±2.5        | PASS    |
|           |           |              | VN         | 50          | 8.93            | 0.010521            | ±2.5        | PASS    |



| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp . | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|-----------|-----------|--------------|------------|-------------|-----------------|---------------------|-------------|---------|
| GSM1900   | TM1       | LCH          | VN         | -30         | 16.19           | 0.008750            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -20         | 16.23           | 0.008772            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -10         | 15.92           | 0.008604            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 0           | 16.28           | 0.008799            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 10          | 14.22           | 0.007686            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 20          | 14.73           | 0.007961            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 30          | 17.08           | 0.009231            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 40          | 13.7            | 0.007405            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 50          | 10.86           | 0.005870            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -30         | 15.7            | 0.008351            | $\pm 2.5$   | PASS    |
| GSM1900   | TM1       | MCH          | VN         | -20         | 15.97           | 0.008495            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -10         | 12.79           | 0.006803            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 0           | 17.86           | 0.009500            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 10          | 14.03           | 0.007463            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 20          | 15.44           | 0.008213            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 30          | 13.54           | 0.007202            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 40          | 14.23           | 0.007569            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 50          | 13.21           | 0.007027            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -30         | 11.9            | 0.006231            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -20         | 7.89            | 0.004131            | $\pm 2.5$   | PASS    |
| GSM1900   | TM1       | HCH          | VN         | -10         | 13.5            | 0.007069            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 0           | 10.22           | 0.005351            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 10          | 11.62           | 0.006084            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 20          | 12.99           | 0.006802            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 30          | 9.71            | 0.005084            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 40          | 11.76           | 0.006158            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 50          | 11.11           | 0.005817            | $\pm 2.5$   | PASS    |



| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp . | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|-----------|-----------|--------------|------------|-------------|-----------------|---------------------|-------------|---------|
| GSM1900   | TM2       | LCH          | VN         | -30         | 13.83           | 0.007475            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -20         | 12.95           | 0.006999            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -10         | 14.74           | 0.007967            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 0           | 15.69           | 0.008480            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 10          | 12.73           | 0.006880            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 20          | 15.79           | 0.008534            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 30          | 17.56           | 0.009491            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 40          | 15.82           | 0.008550            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 50          | 18.09           | 0.009777            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -30         | 11.66           | 0.006202            | $\pm 2.5$   | PASS    |
| GSM1900   | TM2       | MCH          | VN         | -20         | 13.97           | 0.007431            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -10         | 13.91           | 0.007399            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 0           | 12.6            | 0.006702            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 10          | 11.55           | 0.006144            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 20          | 12.94           | 0.006883            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 30          | 10.48           | 0.005574            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 40          | 17.86           | 0.009500            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 50          | 16.8            | 0.008936            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -30         | 8.79            | 0.004603            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | -20         | 10.6            | 0.005550            | $\pm 2.5$   | PASS    |
| GSM1900   | TM2       | HCH          | VN         | -10         | 10.04           | 0.005257            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 0           | 12.04           | 0.006304            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 10          | 9.97            | 0.005220            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 20          | 9.71            | 0.005084            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 30          | 6.55            | 0.003430            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 40          | 15.9            | 0.008325            | $\pm 2.5$   | PASS    |
|           |           |              | VN         | 50          | 9.44            | 0.004943            | $\pm 2.5$   | PASS    |

**WCDMA**
**Test Data:**
**Frequency Error vs. Voltage:**

| Test Band    | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|--------------|-----------|--------------|------------|------------|-----------------|---------------------|-------------|---------|
| WCDMA8<br>50 | TM1       | LCH          | TN         | VL         | -15.97          | -0.019325           | $\pm 2.5$   | PASS    |
|              |           |              | TN         | VN         | -4.62           | -0.005591           | $\pm 2.5$   | PASS    |
|              |           |              | TN         | VH         | -7.72           | -0.009342           | $\pm 2.5$   | PASS    |
|              |           | MCH          | TN         | VL         | -10.8           | -0.012912           | $\pm 2.5$   | PASS    |
|              |           |              | TN         | VN         | -4.6            | -0.005500           | $\pm 2.5$   | PASS    |
|              |           |              | TN         | VH         | -11.55          | -0.013809           | $\pm 2.5$   | PASS    |
|              |           | HCH          | TN         | VL         | -8.99           | -0.010619           | $\pm 2.5$   | PASS    |
|              |           |              | TN         | VN         | -4.63           | -0.005469           | $\pm 2.5$   | PASS    |
|              |           |              | TN         | VH         | -16.89          | -0.019950           | $\pm 2.5$   | PASS    |

| Test Band     | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|---------------|-----------|--------------|------------|------------|-----------------|---------------------|-------------|---------|
| WCDMA1<br>900 | TM1       | LCH          | TN         | VL         | -19.91          | -0.010748           | $\pm 2.5$   | PASS    |
|               |           |              | TN         | VN         | -15.43          | -0.008330           | $\pm 2.5$   | PASS    |
|               |           |              | TN         | VH         | -12.06          | -0.006510           | $\pm 2.5$   | PASS    |
|               |           | MCH          | TN         | VL         | -14.51          | -0.007718           | $\pm 2.5$   | PASS    |
|               |           |              | TN         | VN         | -15.4           | -0.008191           | $\pm 2.5$   | PASS    |
|               |           |              | TN         | VH         | -12.02          | -0.006394           | $\pm 2.5$   | PASS    |
|               |           | HCH          | TN         | VL         | -14.67          | -0.007690           | $\pm 2.5$   | PASS    |
|               |           |              | TN         | VN         | -15.4           | -0.008073           | $\pm 2.5$   | PASS    |
|               |           |              | TN         | VH         | -12.77          | -0.006694           | $\pm 2.5$   | PASS    |

**Frequency Error vs. Temperature:**

| Test Band    | Test Mode | Test Channel | Test Volt. | Test Temp | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|--------------|-----------|--------------|------------|-----------|-----------------|---------------------|-------------|---------|
| WCDMA8<br>50 | TM1       | LCH          | VN         | -30       | -7.24           | -0.008761           | ±2.5        | PASS    |
|              |           |              | VN         | -20       | -6.76           | -0.008180           | ±2.5        | PASS    |
|              |           |              | VN         | -10       | -13.89          | -0.016808           | ±2.5        | PASS    |
|              |           |              | VN         | 0         | -15.09          | -0.018260           | ±2.5        | PASS    |
|              |           |              | VN         | 10        | -9.1            | -0.011012           | ±2.5        | PASS    |
|              |           |              | VN         | 20        | -8.4            | -0.010165           | ±2.5        | PASS    |
|              |           |              | VN         | 30        | -12.19          | -0.014751           | ±2.5        | PASS    |
|              |           |              | VN         | 40        | -12.93          | -0.015646           | ±2.5        | PASS    |
|              |           |              | VN         | 50        | -14.26          | -0.017256           | ±2.5        | PASS    |
| WCDMA8<br>50 | TM1       | MCH          | VN         | -30       | -13.28          | -0.016070           | ±2.5        | PASS    |
|              |           |              | VN         | -20       | -15.6           | -0.018877           | ±2.5        | PASS    |
|              |           |              | VN         | -10       | -5.63           | -0.006813           | ±2.5        | PASS    |
|              |           |              | VN         | 0         | -6              | -0.007260           | ±2.5        | PASS    |
|              |           |              | VN         | 10        | -4.54           | -0.005494           | ±2.5        | PASS    |
|              |           |              | VN         | 20        | -6.29           | -0.007611           | ±2.5        | PASS    |
|              |           |              | VN         | 30        | -7.29           | -0.008821           | ±2.5        | PASS    |
|              |           |              | VN         | 40        | -13.48          | -0.016312           | ±2.5        | PASS    |
|              |           |              | VN         | 50        | -12.08          | -0.014618           | ±2.5        | PASS    |
| WCDMA8<br>50 | TM1       | HCH          | VN         | -30       | -9.56           | -0.011292           | ±2.5        | PASS    |
|              |           |              | VN         | -20       | -6.93           | -0.008186           | ±2.5        | PASS    |
|              |           |              | VN         | -10       | -9.03           | -0.010666           | ±2.5        | PASS    |
|              |           |              | VN         | 0         | -5.98           | -0.007064           | ±2.5        | PASS    |
|              |           |              | VN         | 10        | -5.15           | -0.006083           | ±2.5        | PASS    |
|              |           |              | VN         | 20        | -6.91           | -0.008162           | ±2.5        | PASS    |
|              |           |              | VN         | 30        | -6.09           | -0.007193           | ±2.5        | PASS    |
|              |           |              | VN         | 40        | -6.22           | -0.007347           | ±2.5        | PASS    |
|              |           |              | VN         | 50        | -5.16           | -0.006095           | ±2.5        | PASS    |

| Test Band     | Test Mode | Test Channel | Test Volt. | Test Temp . | Freq.Error (Hz) | Freq.vs.rated (ppm) | Limit (ppm) | Verdict |
|---------------|-----------|--------------|------------|-------------|-----------------|---------------------|-------------|---------|
| WCDMA1<br>900 | TM1       | LCH          | VN         | -30         | -11.88          | -0.006413           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | -20         | -10.6           | -0.005722           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | -10         | -6.5            | -0.003509           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 0           | -8.69           | -0.004691           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 10          | -9.74           | -0.005258           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 20          | -10.97          | -0.005922           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 30          | -12.34          | -0.006662           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 40          | -10.61          | -0.005728           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 50          | -12.67          | -0.006840           | $\pm 2.5$   | PASS    |
| WCDMA1<br>900 | TM1       | MCH          | VN         | -30         | -7.55           | -0.004016           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | -20         | -8.26           | -0.004394           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | -10         | -5.09           | -0.002707           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 0           | -4.21           | -0.002239           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 10          | -11.14          | -0.005926           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 20          | -4.25           | -0.002261           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 30          | -13.36          | -0.007106           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 40          | -1.58           | -0.000840           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 50          | -10.28          | -0.005468           | $\pm 2.5$   | PASS    |
| WCDMA1<br>900 | TM1       | HCH          | VN         | -30         | -12.78          | -0.006700           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | -20         | -10.14          | -0.005316           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | -10         | -12.57          | -0.006589           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 0           | -6.11           | -0.003203           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 10          | -4.9            | -0.002569           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 20          | -7.07           | -0.003706           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 30          | -7.72           | -0.004047           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 40          | -7.11           | -0.003727           | $\pm 2.5$   | PASS    |
|               |           |              | VN         | 50          | -9.05           | -0.004744           | $\pm 2.5$   | PASS    |

**LTE Band 2**
**Test Data:**

Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz |         |               |                  |                |                 |             |         |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage                   |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VL            | TN               | -8.89          | -0.004716       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -7.12          | -0.003777       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -8.87          | -0.004706       | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | -6.62          | -0.003521       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -9.55          | -0.005080       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -6.79          | -0.003612       | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -7.66          | -0.004021       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -10.18         | -0.005344       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -9.84          | -0.005165       | ± 2.5       | PASS    |
| 16QAM                     | LCH     | VL            | TN               | -2.6           | -0.001379       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -8.62          | -0.004573       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -14.1          | -0.007480       | ± 2.5       | PASS    |
|                           | MCH     | VL            | TN               | -9.91          | -0.005271       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -5.06          | -0.002691       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -6.43          | -0.003420       | ± 2.5       | PASS    |
|                           | HCH     | VL            | TN               | -7.94          | -0.004168       | ± 2.5       | PASS    |
|                           |         | VN            | TN               | -9.04          | -0.004745       | ± 2.5       | PASS    |
|                           |         | VH            | TN               | -6.61          | -0.003470       | ± 2.5       | PASS    |
| Temperature               |         |               |                  |                |                 |             |         |
| Modulation                | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK                      | LCH     | VN            | -30              | -6.16          | -0.003268       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -7.36          | -0.003905       | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -4.87          | -0.002584       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | -5.31          | -0.002817       | ± 2.5       | PASS    |
|                           |         | VN            | 10               | -11.78         | -0.006249       | ± 2.5       | PASS    |
|                           |         | VN            | 20               | -13.44         | -0.007130       | ± 2.5       | PASS    |
|                           |         | VN            | 30               | -6.08          | -0.003225       | ± 2.5       | PASS    |
|                           |         | VN            | 40               | -8.63          | -0.004578       | ± 2.5       | PASS    |
|                           |         | VN            | 50               | -7.72          | -0.004095       | ± 2.5       | PASS    |
|                           | MCH     | VN            | -30              | -12.91         | -0.006867       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -10            | -0.005319       | ± 2.5       | PASS    |
|                           |         | VN            | -10              | -10.11         | -0.005378       | ± 2.5       | PASS    |
|                           |         | VN            | 0                | -6.31          | -0.003356       | ± 2.5       | PASS    |
|                           |         | VN            | 10               | -8.6           | -0.004574       | ± 2.5       | PASS    |
|                           |         | VN            | 20               | -12.58         | -0.006691       | ± 2.5       | PASS    |
|                           |         | VN            | 30               | -5.73          | -0.003048       | ± 2.5       | PASS    |
|                           |         | VN            | 40               | -6.41          | -0.003410       | ± 2.5       | PASS    |
|                           |         | VN            | 50               | -8.51          | -0.004527       | ± 2.5       | PASS    |
|                           | HCH     | VN            | -30              | -6.99          | -0.003669       | ± 2.5       | PASS    |
|                           |         | VN            | -20              | -3.85          | -0.002021       | ± 2.5       | PASS    |



|       |     |    |     |        |           |       |      |
|-------|-----|----|-----|--------|-----------|-------|------|
|       |     | VN | -10 | -11.63 | -0.006105 | ± 2.5 | PASS |
|       |     | VN | 0   | -6.12  | -0.003213 | ± 2.5 | PASS |
|       |     | VN | 10  | -6.3   | -0.003307 | ± 2.5 | PASS |
|       |     | VN | 20  | -10.19 | -0.005349 | ± 2.5 | PASS |
|       |     | VN | 30  | -8.61  | -0.004520 | ± 2.5 | PASS |
|       |     | VN | 40  | -10.75 | -0.005643 | ± 2.5 | PASS |
|       |     | VN | 50  | -6.89  | -0.003617 | ± 2.5 | PASS |
| 16QAM | LCH | VN | -30 | -10.14 | -0.005379 | ± 2.5 | PASS |
|       |     | VN | -20 | -5.25  | -0.002785 | ± 2.5 | PASS |
|       |     | VN | -10 | -8.09  | -0.004292 | ± 2.5 | PASS |
|       |     | VN | 0   | -9.09  | -0.004822 | ± 2.5 | PASS |
|       |     | VN | 10  | -8.48  | -0.004499 | ± 2.5 | PASS |
|       |     | VN | 20  | -4.11  | -0.002180 | ± 2.5 | PASS |
|       |     | VN | 30  | -7.28  | -0.003862 | ± 2.5 | PASS |
|       |     | VN | 40  | -8     | -0.004244 | ± 2.5 | PASS |
|       |     | VN | 50  | -6.1   | -0.003236 | ± 2.5 | PASS |
|       | MCH | VN | -30 | -7.07  | -0.003761 | ± 2.5 | PASS |
|       |     | VN | -20 | -3.9   | -0.002074 | ± 2.5 | PASS |
|       |     | VN | -10 | -4.45  | -0.002367 | ± 2.5 | PASS |
|       |     | VN | 0   | -14.04 | -0.007468 | ± 2.5 | PASS |
|       |     | VN | 10  | -4.46  | -0.002372 | ± 2.5 | PASS |
|       |     | VN | 20  | -5.39  | -0.002867 | ± 2.5 | PASS |
|       |     | VN | 30  | -9.47  | -0.005037 | ± 2.5 | PASS |
|       |     | VN | 40  | -12.73 | -0.006771 | ± 2.5 | PASS |
|       |     | VN | 50  | -11.73 | -0.006239 | ± 2.5 | PASS |
|       | HCH | VN | -30 | -13.15 | -0.006903 | ± 2.5 | PASS |
|       |     | VN | -20 | -11.18 | -0.005869 | ± 2.5 | PASS |
|       |     | VN | -10 | -4.7   | -0.002467 | ± 2.5 | PASS |
|       |     | VN | 0   | -8.47  | -0.004446 | ± 2.5 | PASS |
|       |     | VN | 10  | -6.43  | -0.003375 | ± 2.5 | PASS |
|       |     | VN | 20  | -13.56 | -0.007118 | ± 2.5 | PASS |
|       |     | VN | 30  | -15.45 | -0.008110 | ± 2.5 | PASS |
|       |     | VN | 40  | -3.07  | -0.001612 | ± 2.5 | PASS |
|       |     | VN | 50  | 4.97   | 0.002609  | ± 2.5 | PASS |