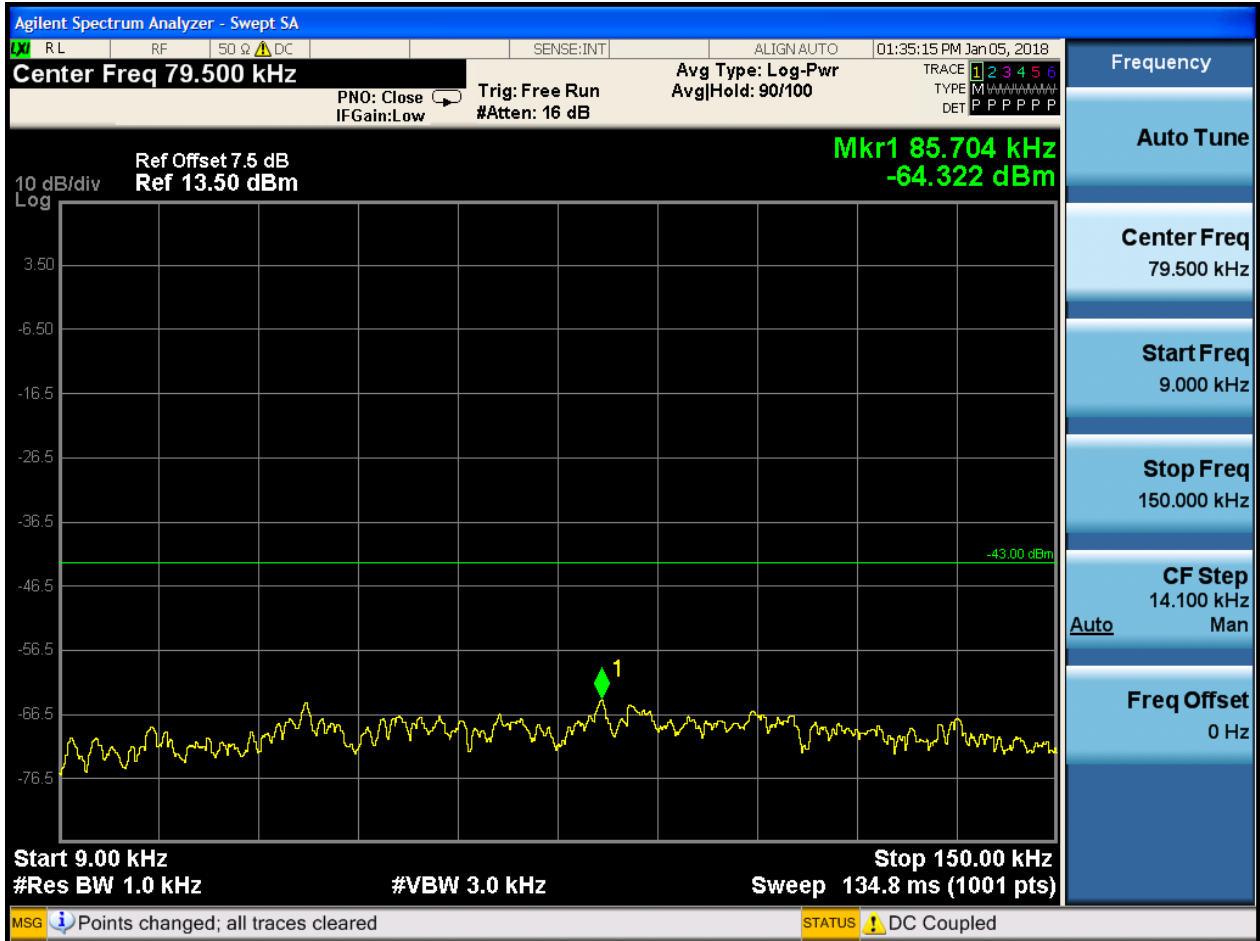
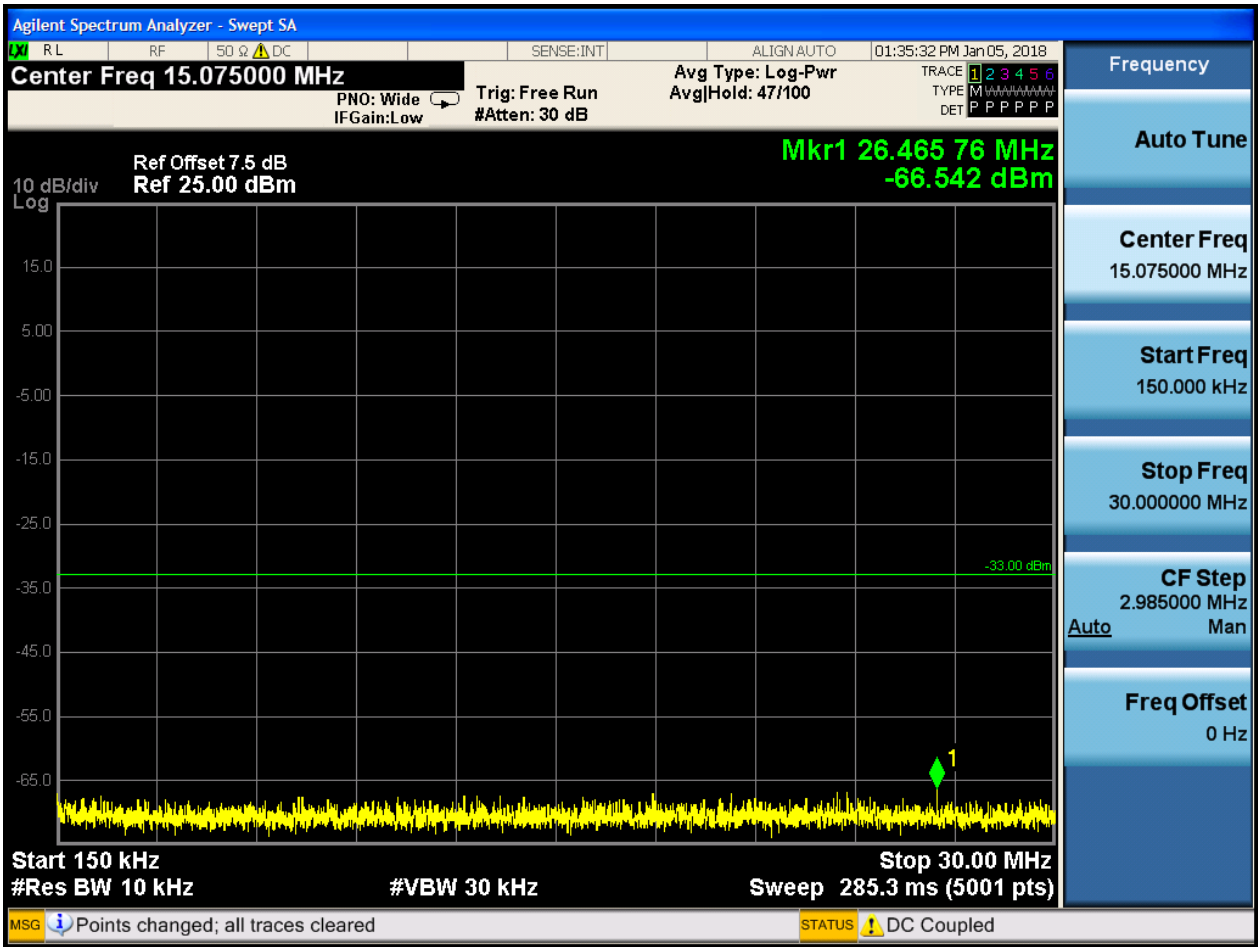


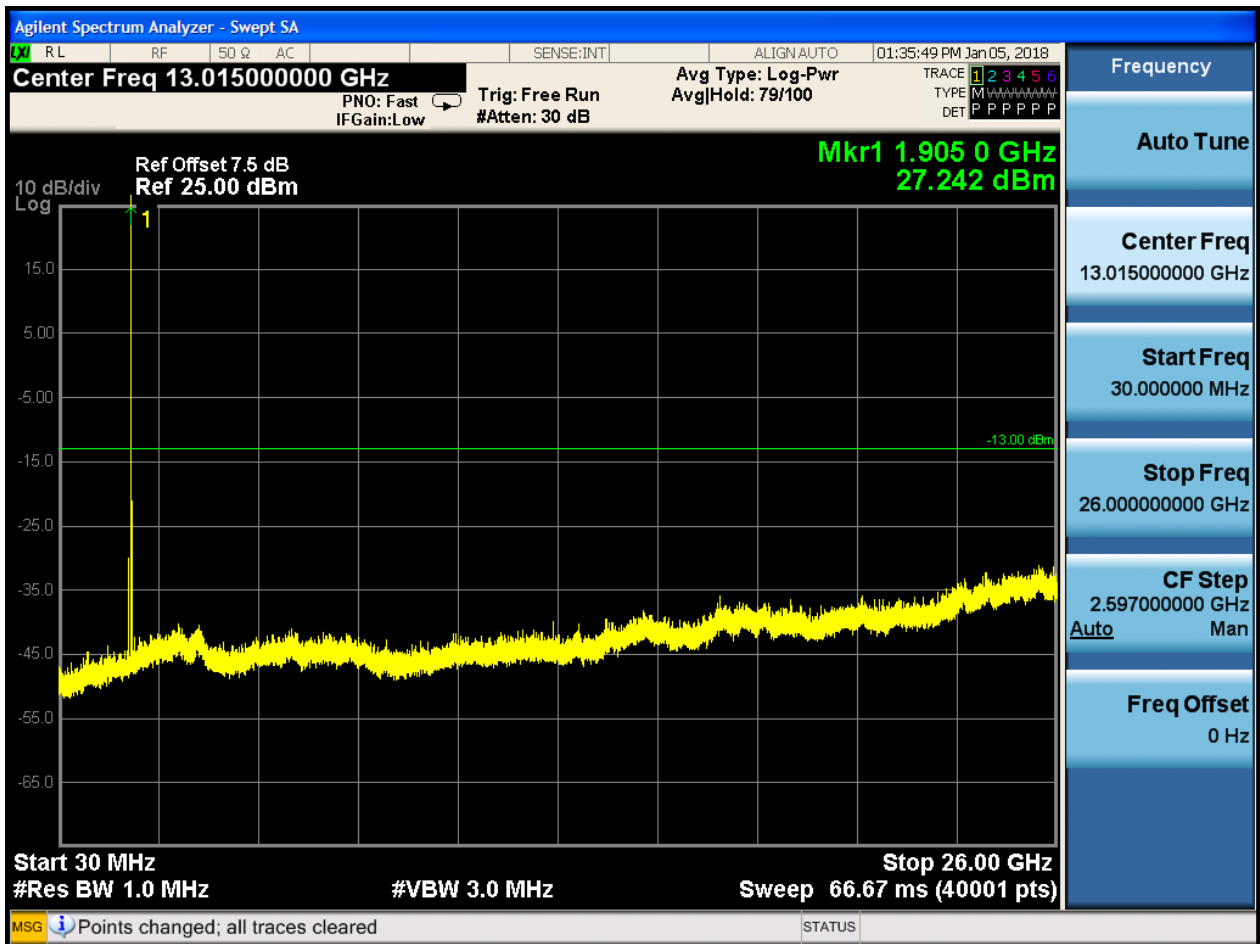


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





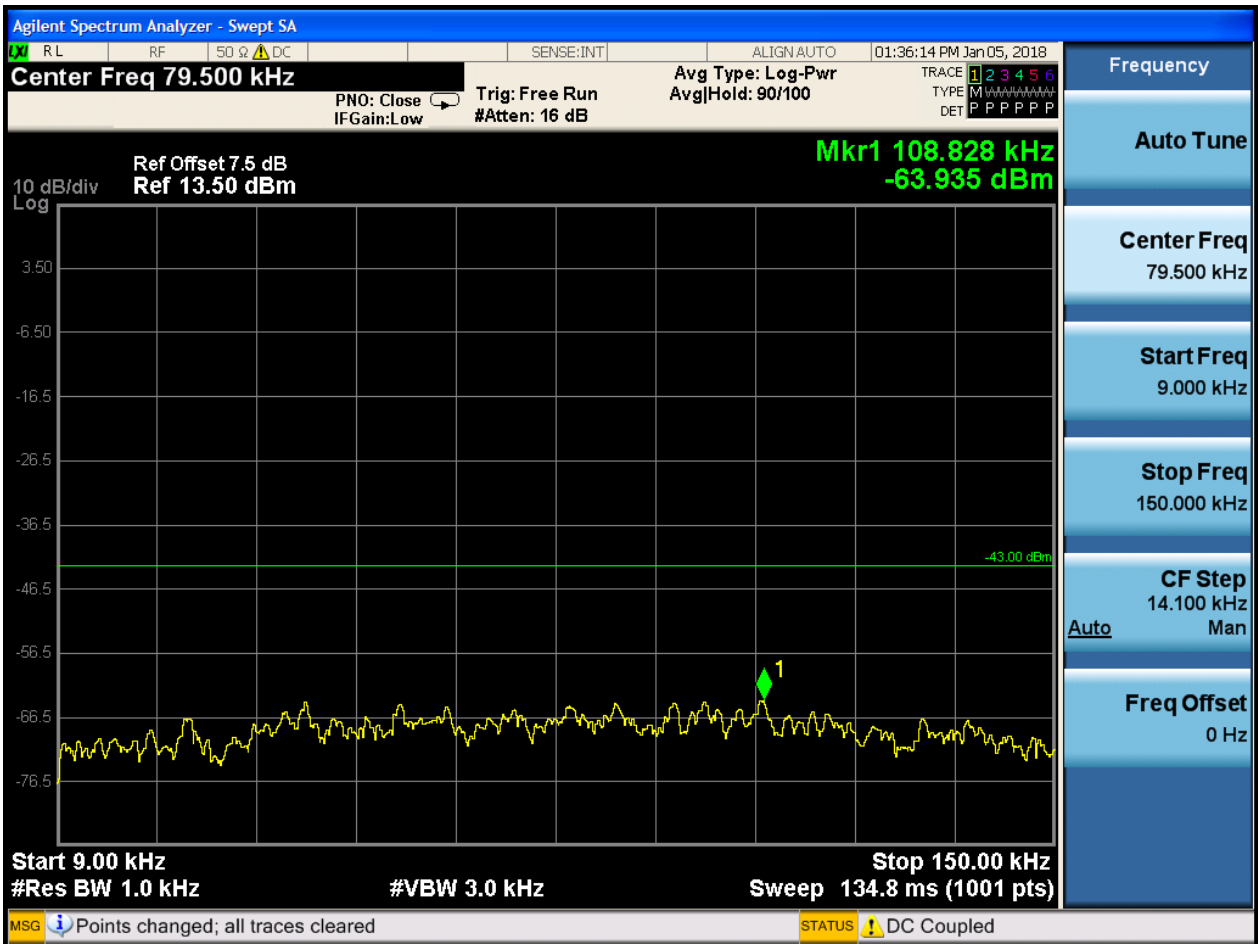


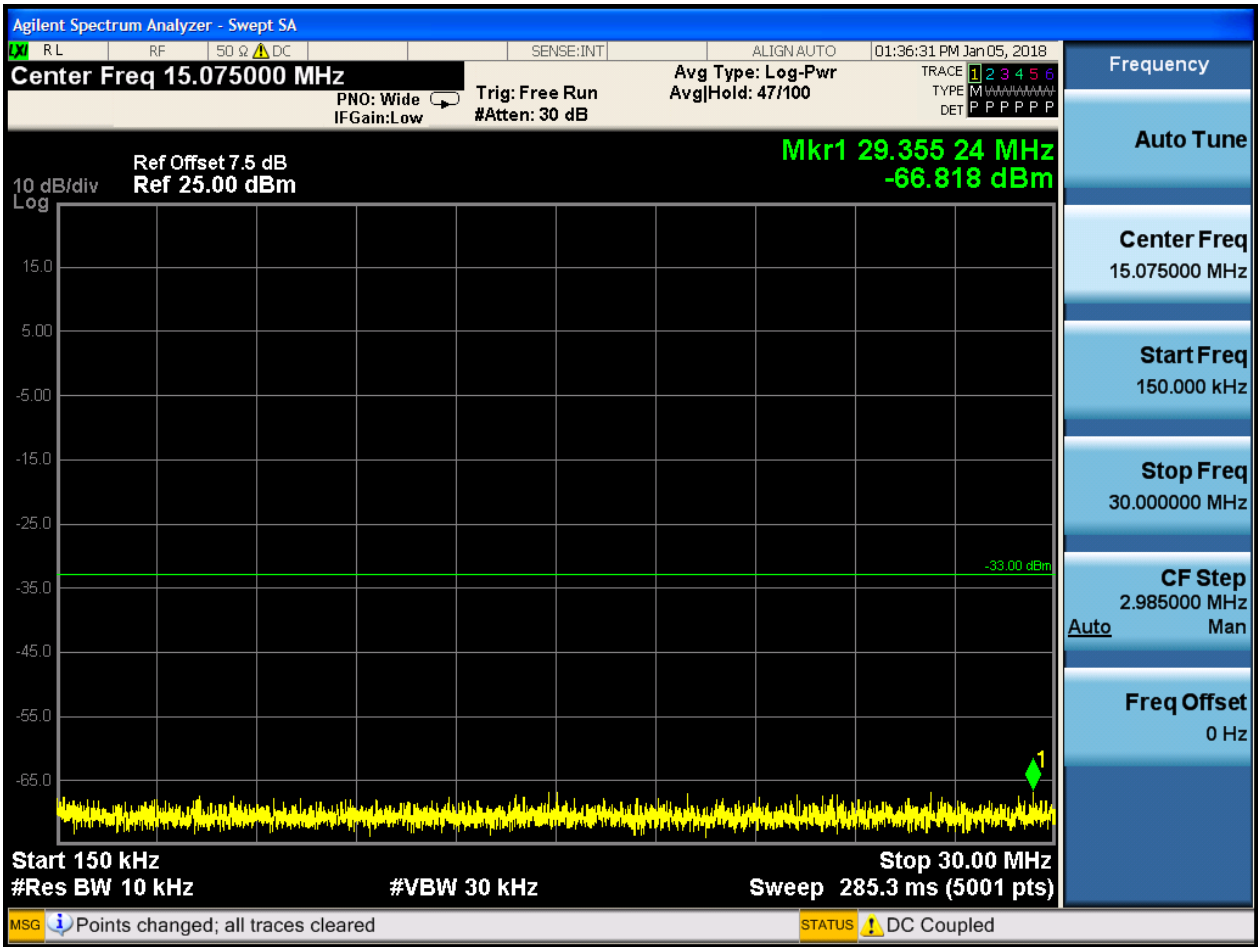


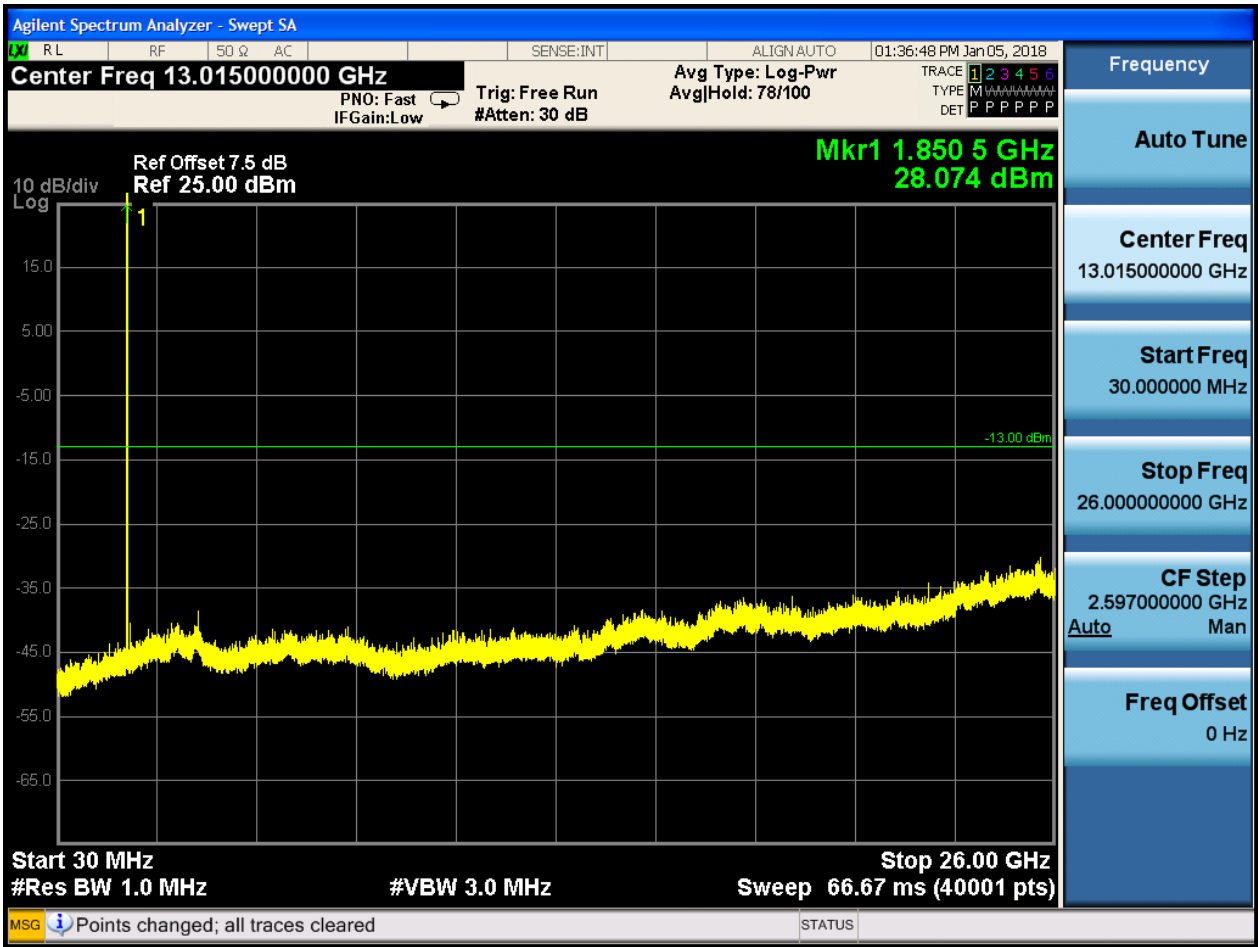
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



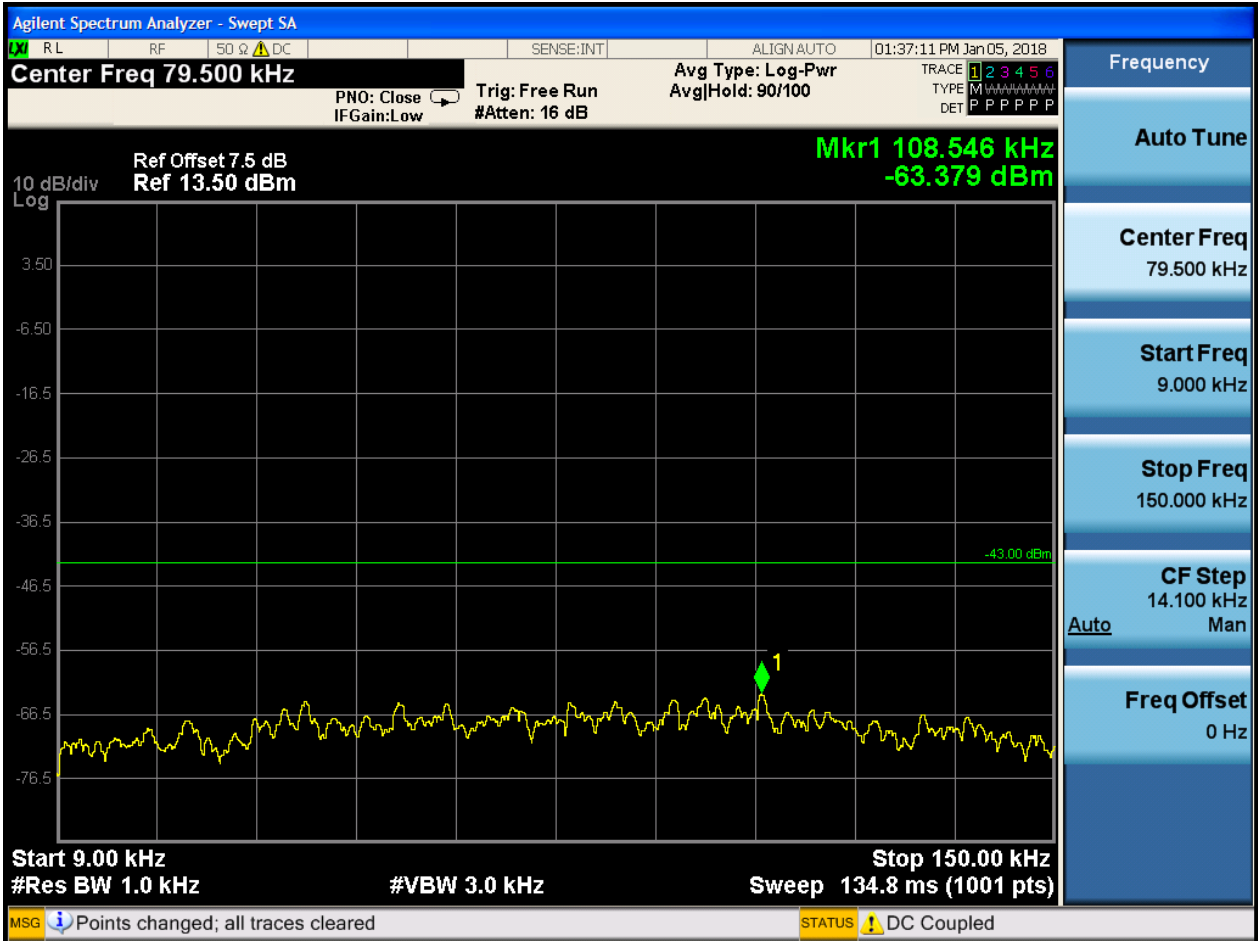


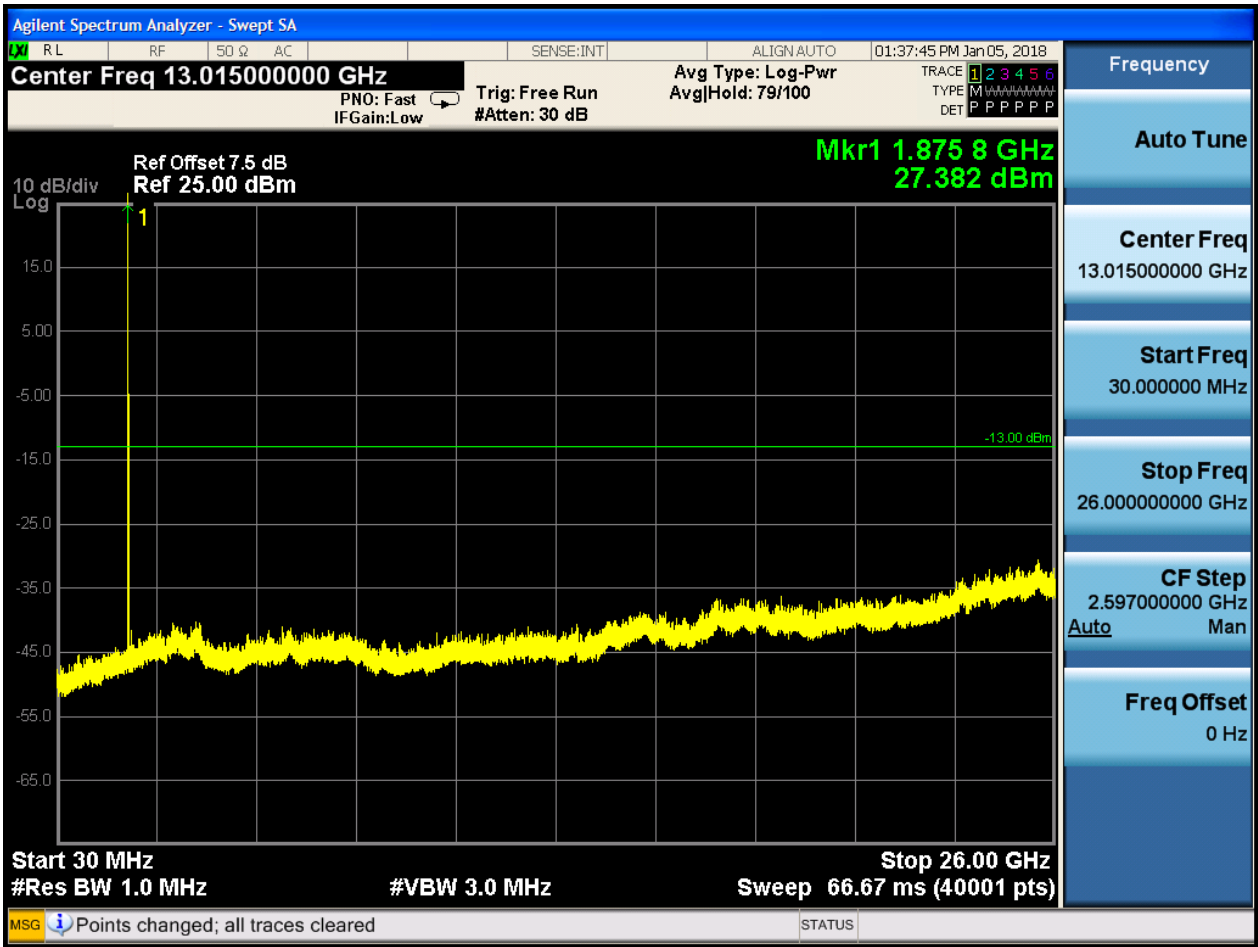




6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

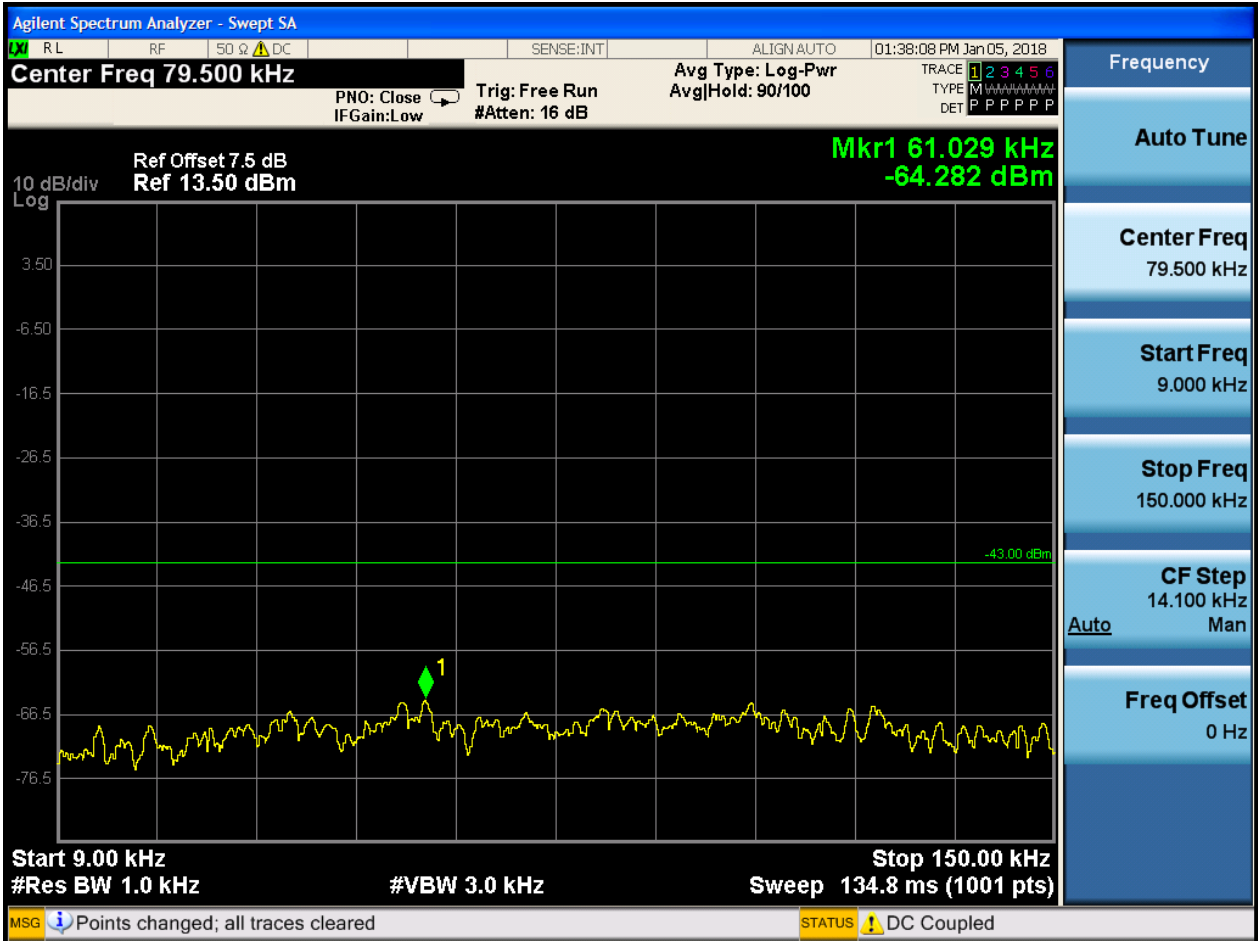


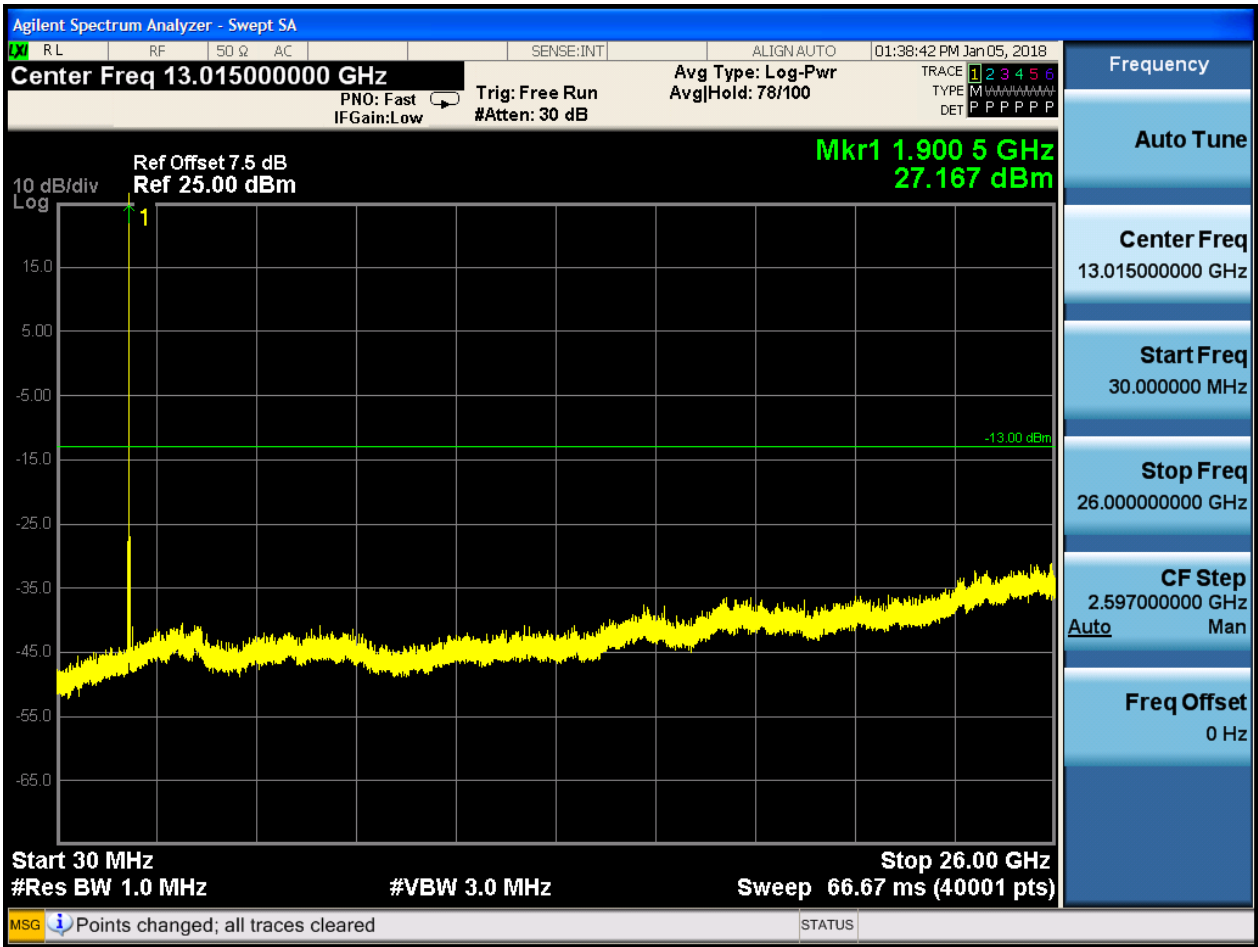




6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0



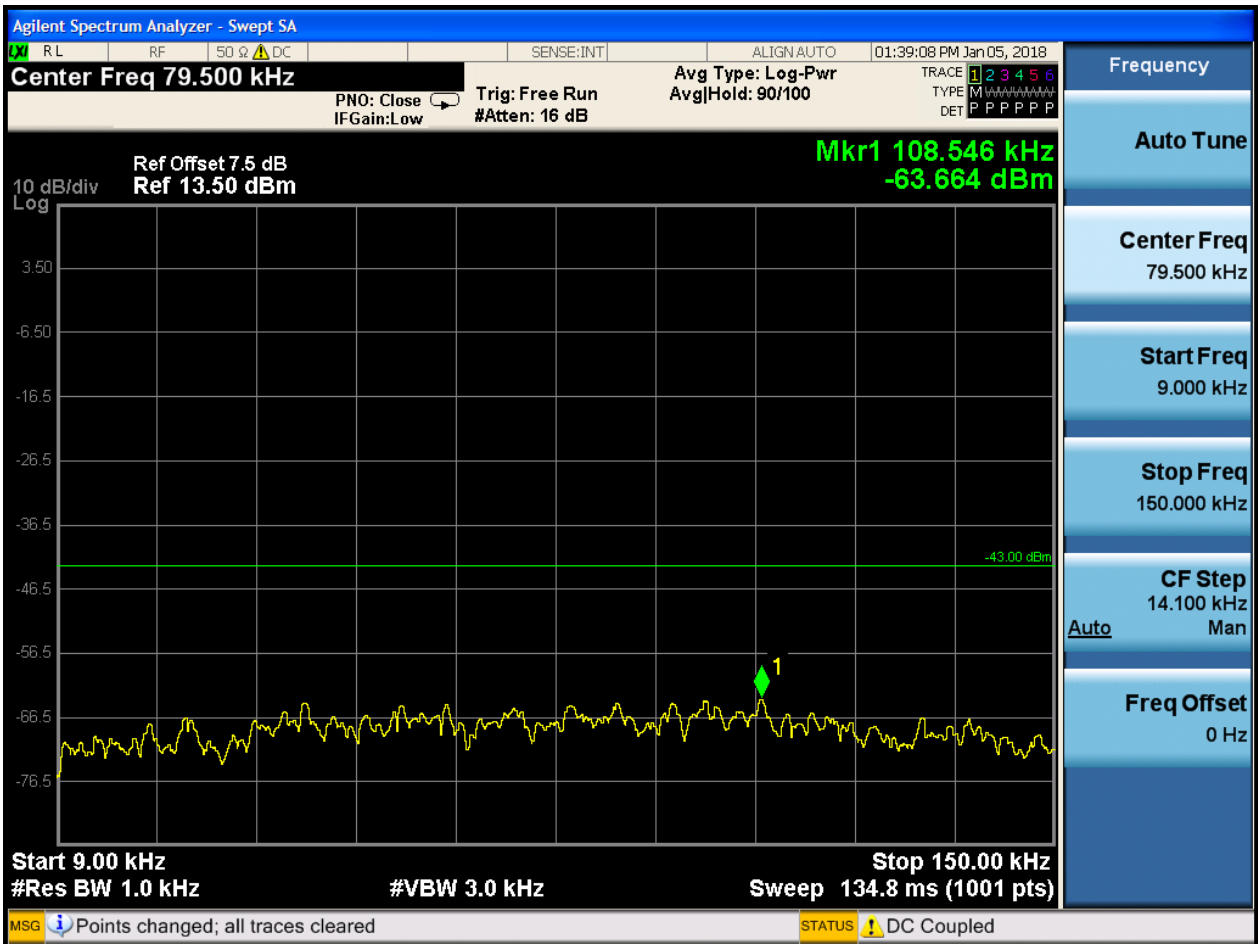


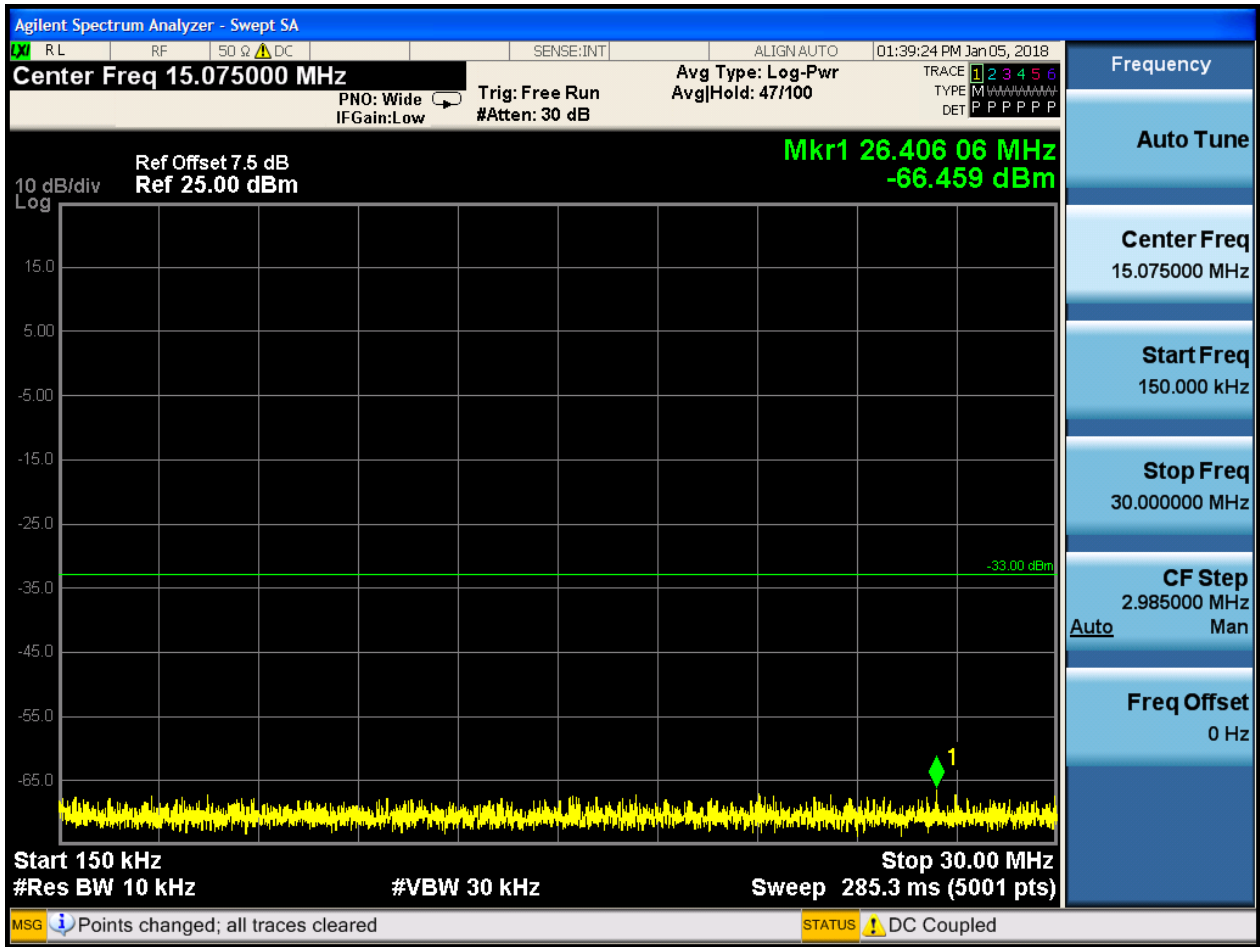


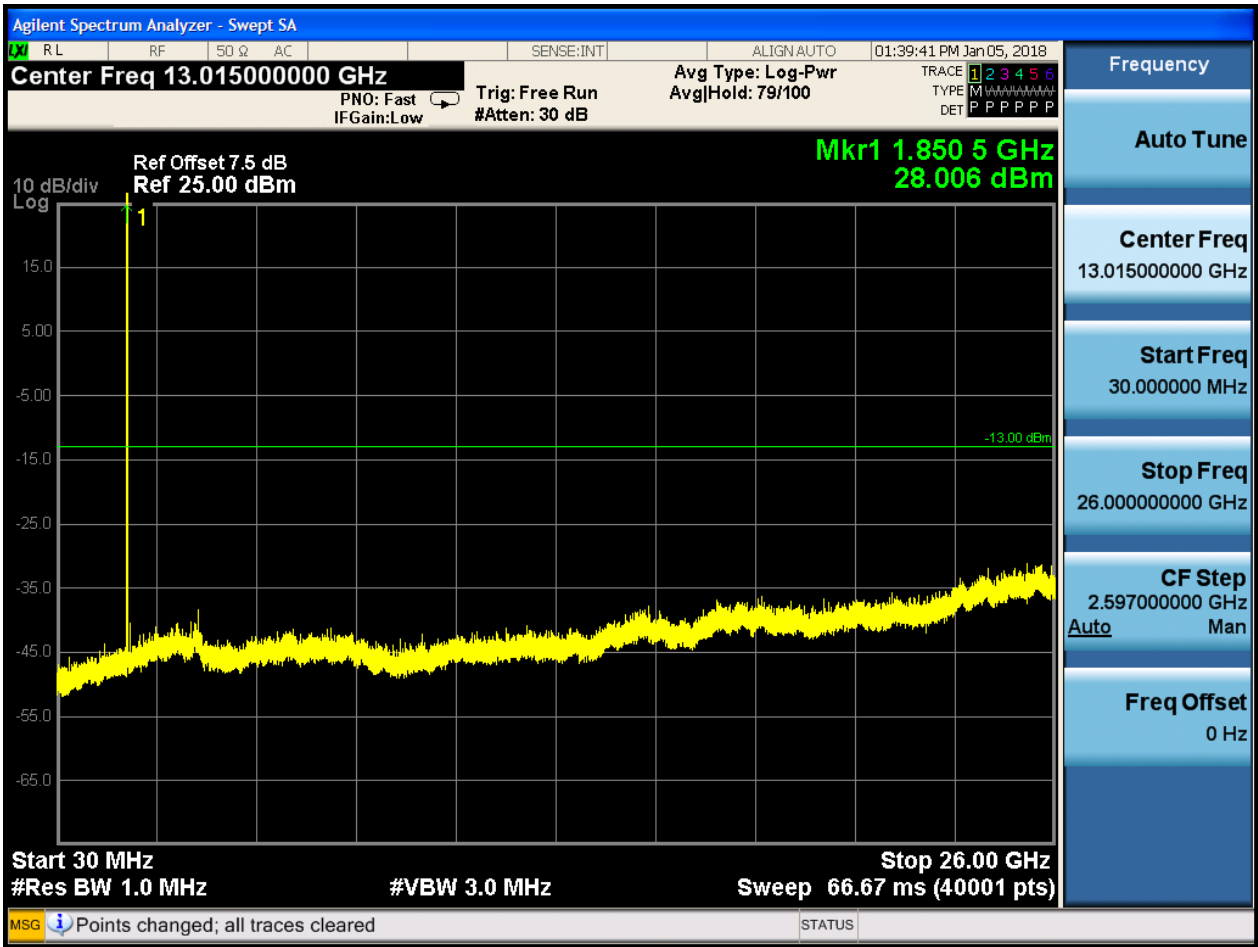
6.1.1.1.5 Test Bandwidth = 15

6.1.1.1.5.1 Test Channel = LCH

6.1.1.1.5.1.1 Test RB = RB1#0



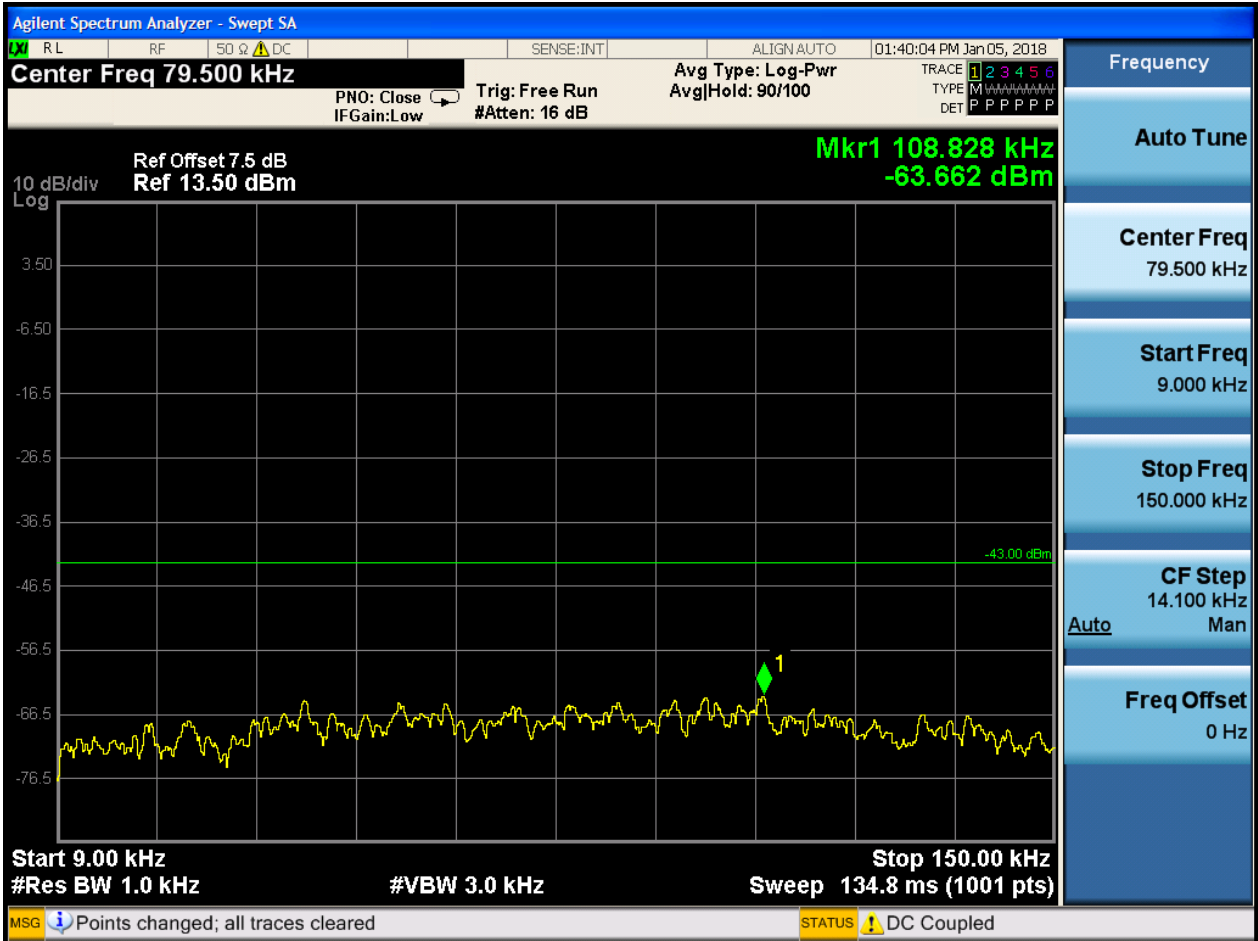


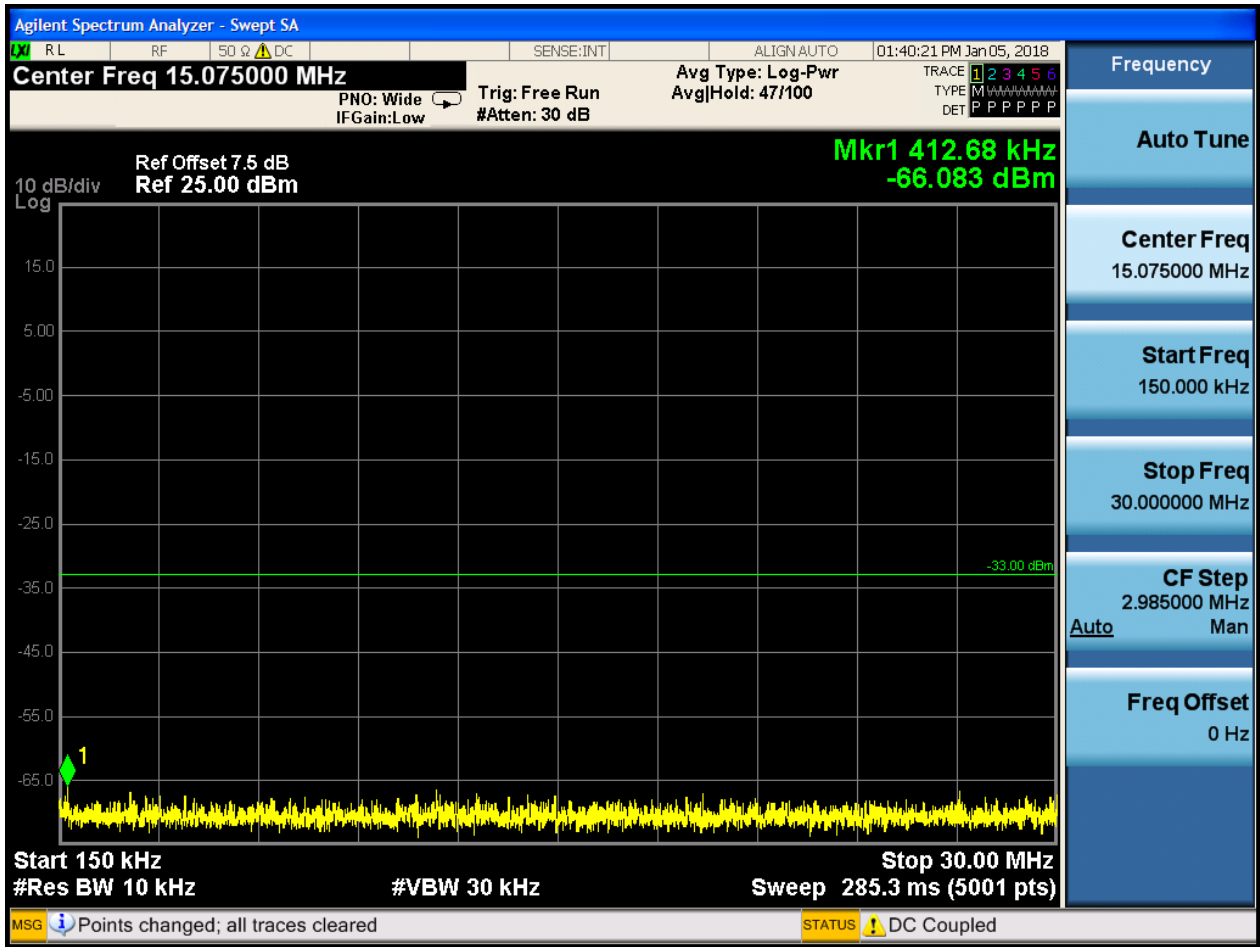


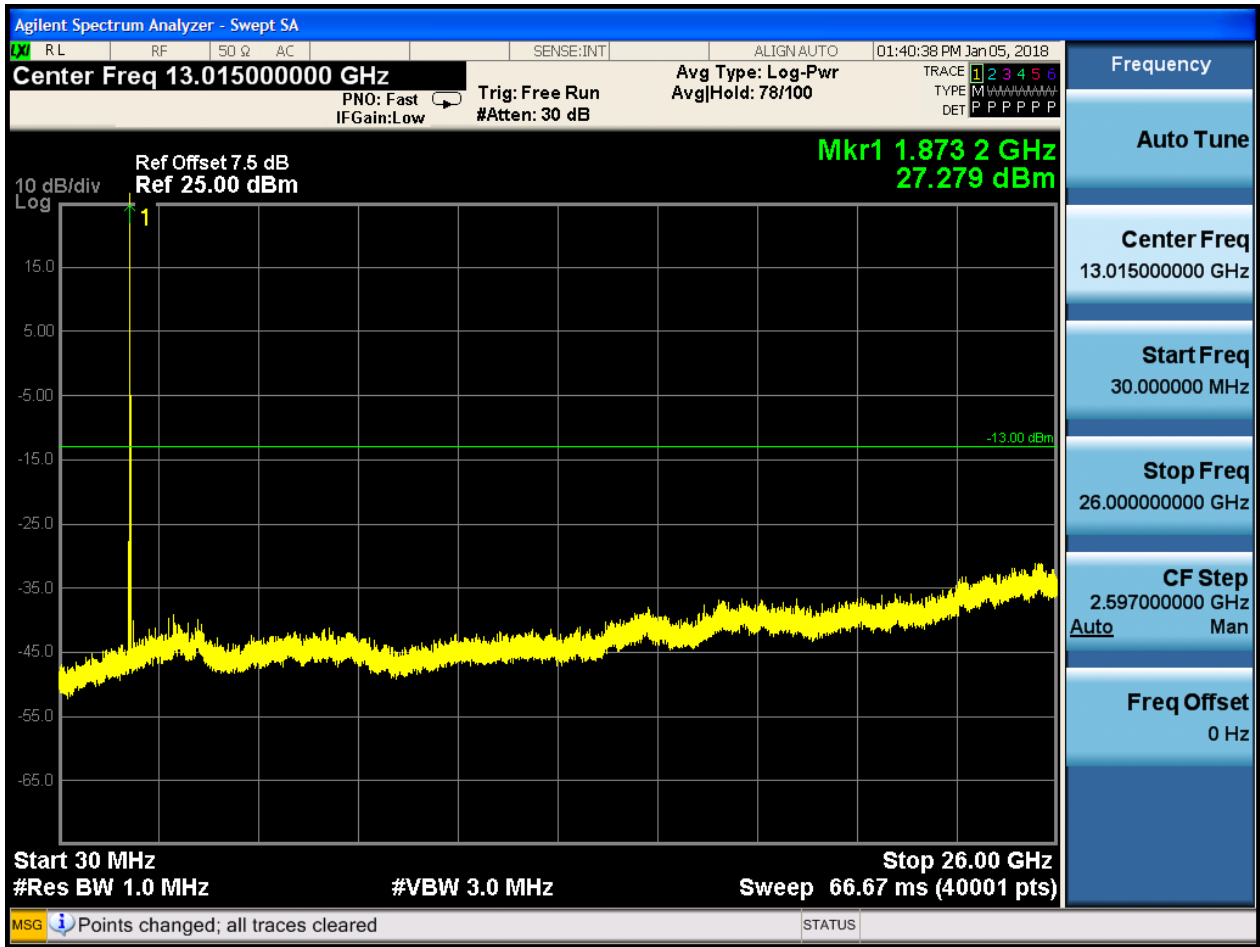


6.1.1.1.5.2 Test Channel = MCH

6.1.1.1.5.2.1 Test RB = RB1#0



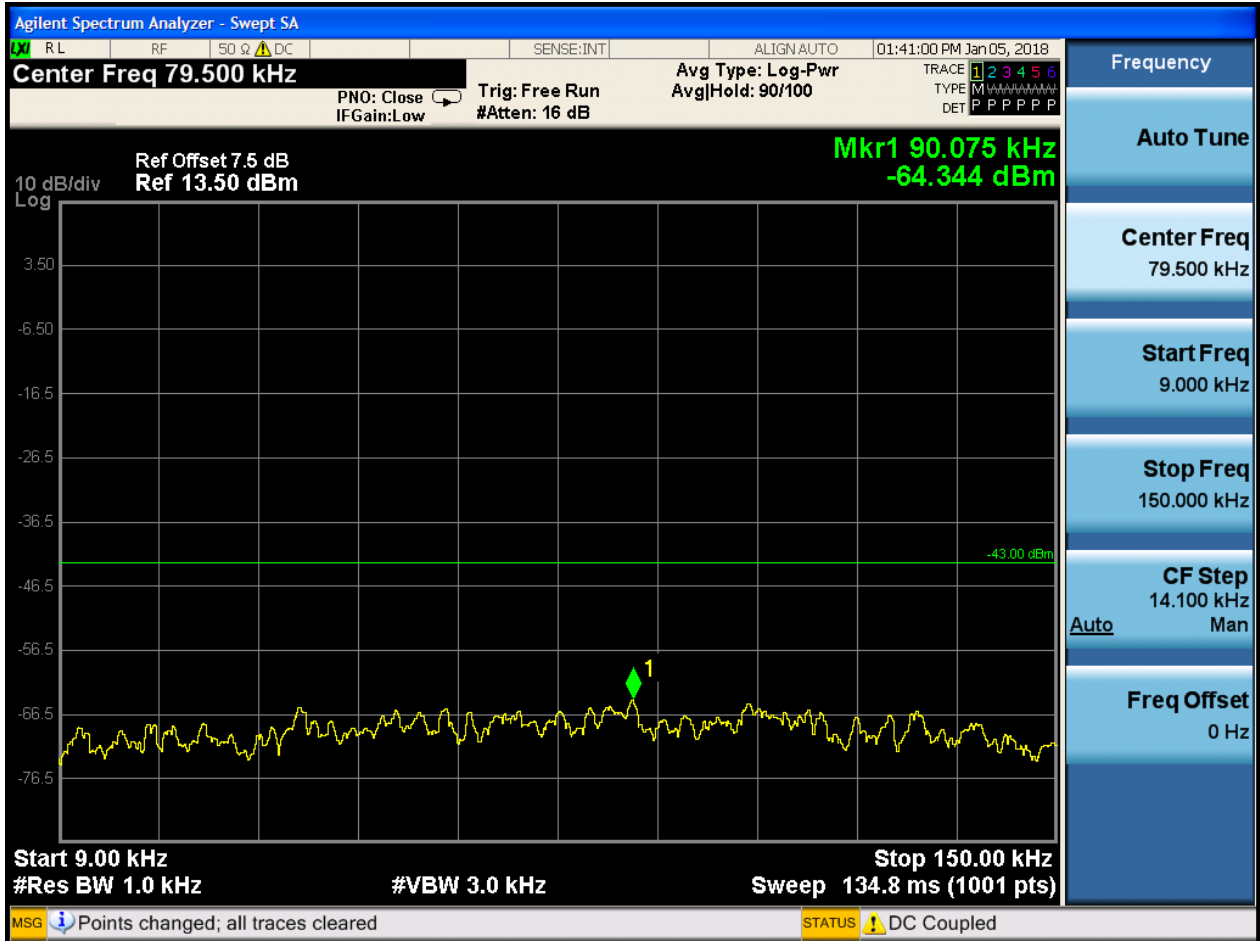


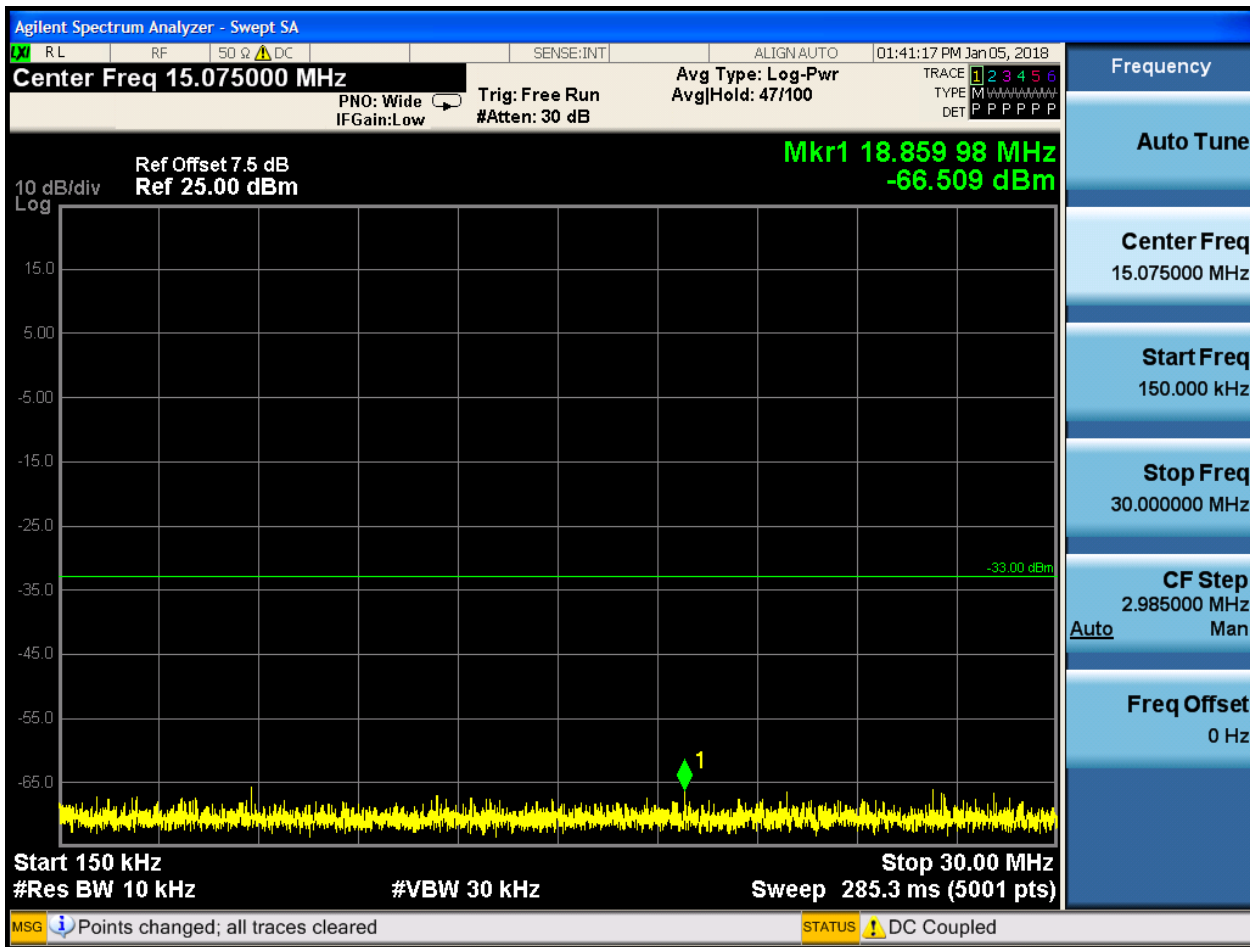


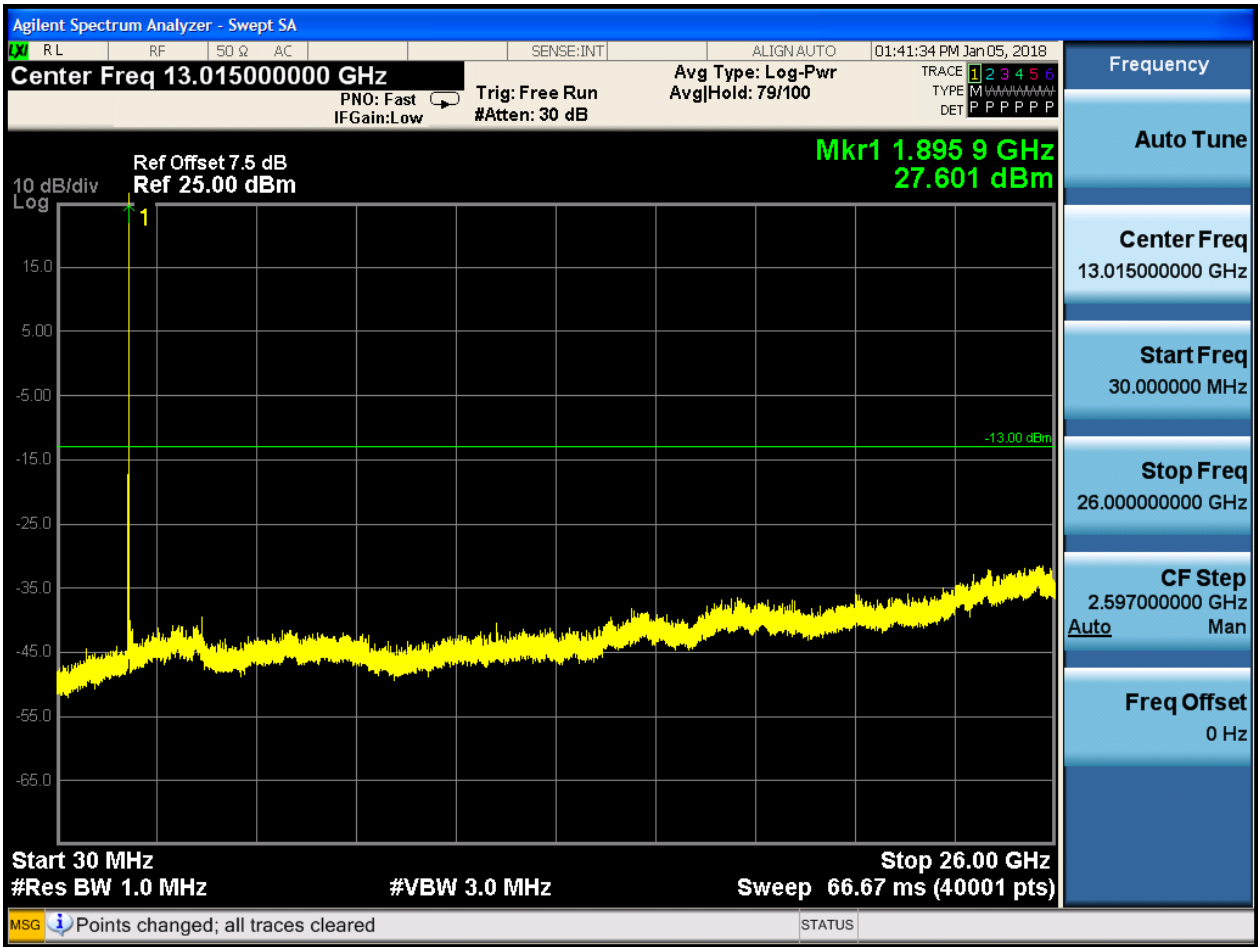


6.1.1.1.5.3 Test Channel = HCH

6.1.1.1.5.3.1 Test RB = RB1#0





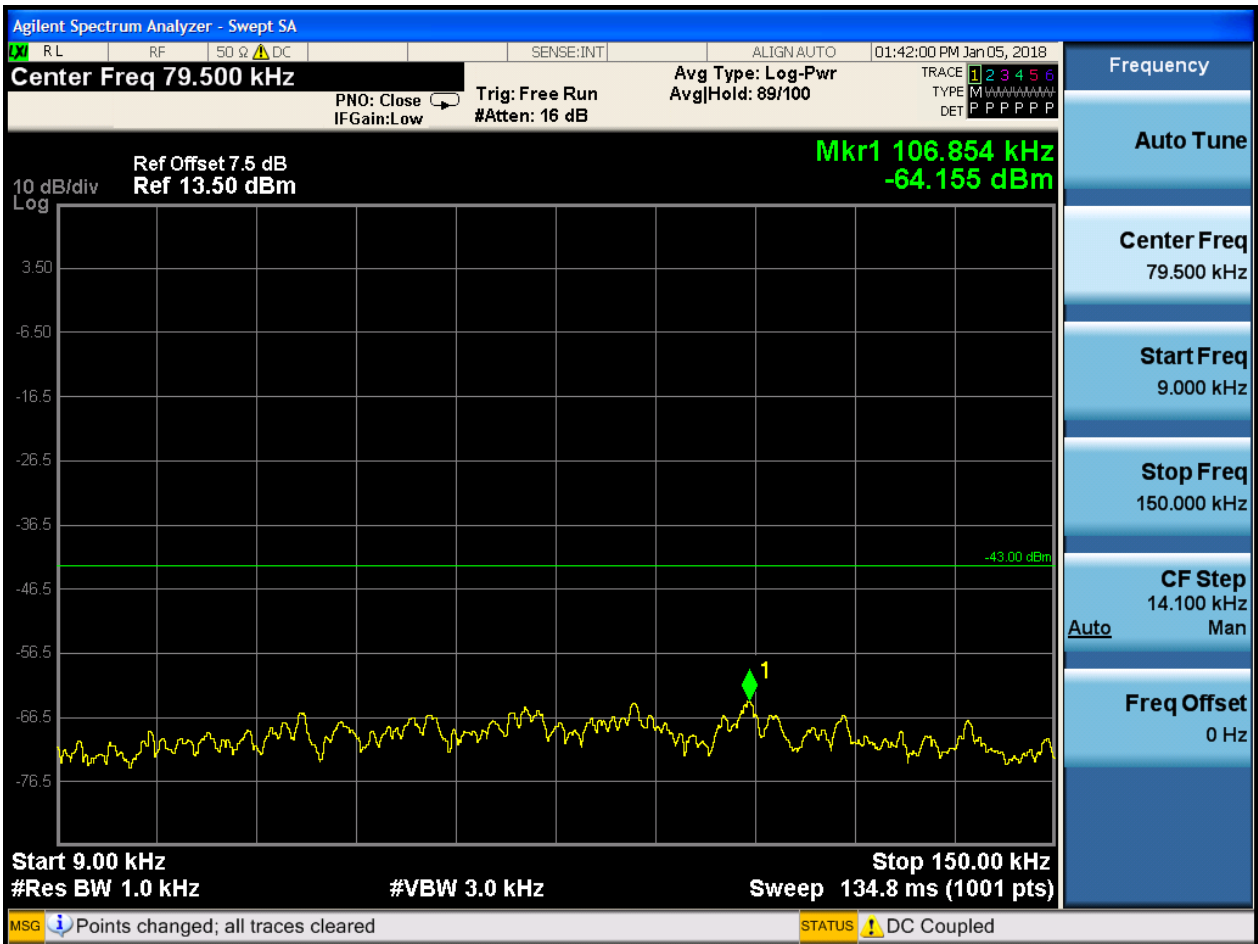


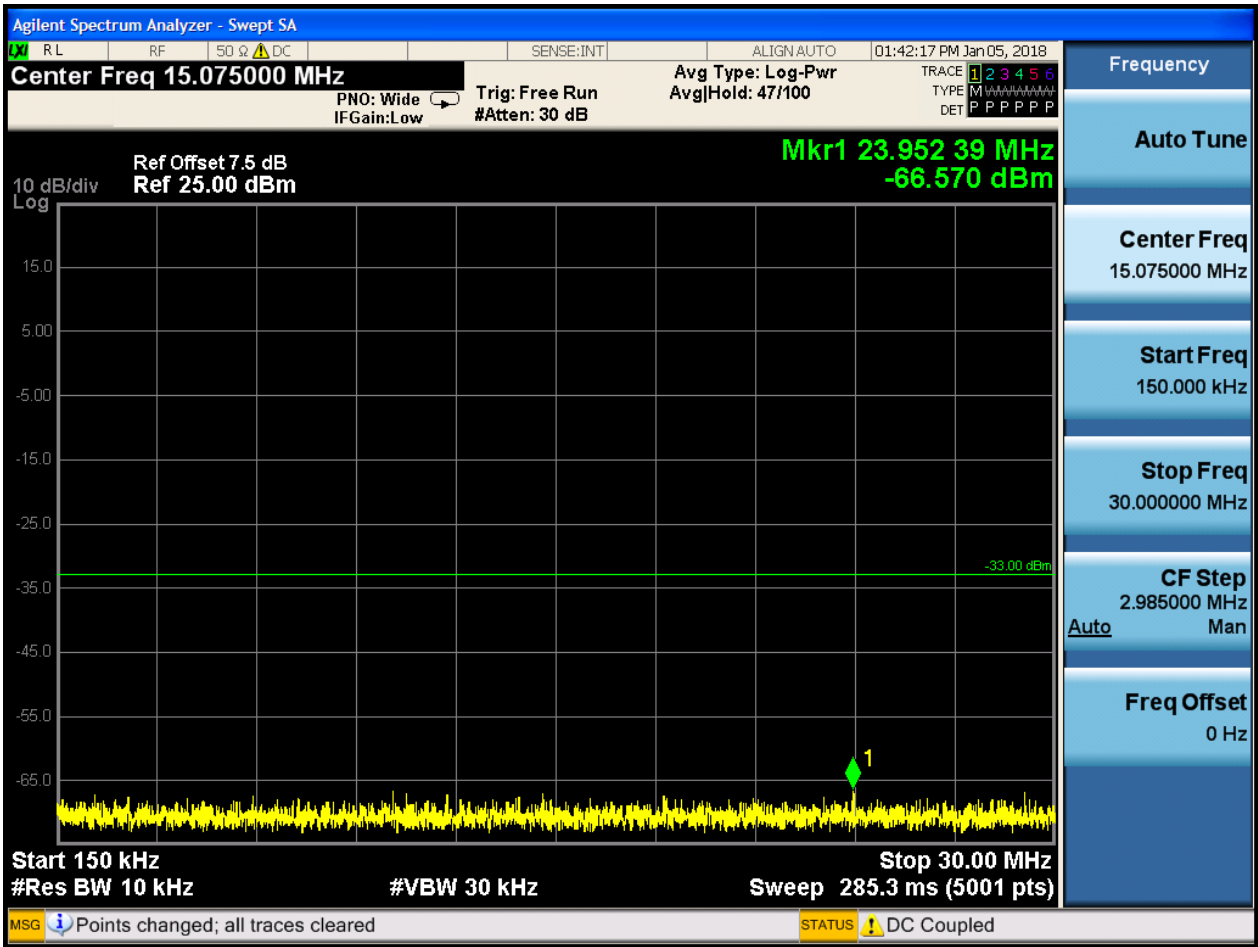


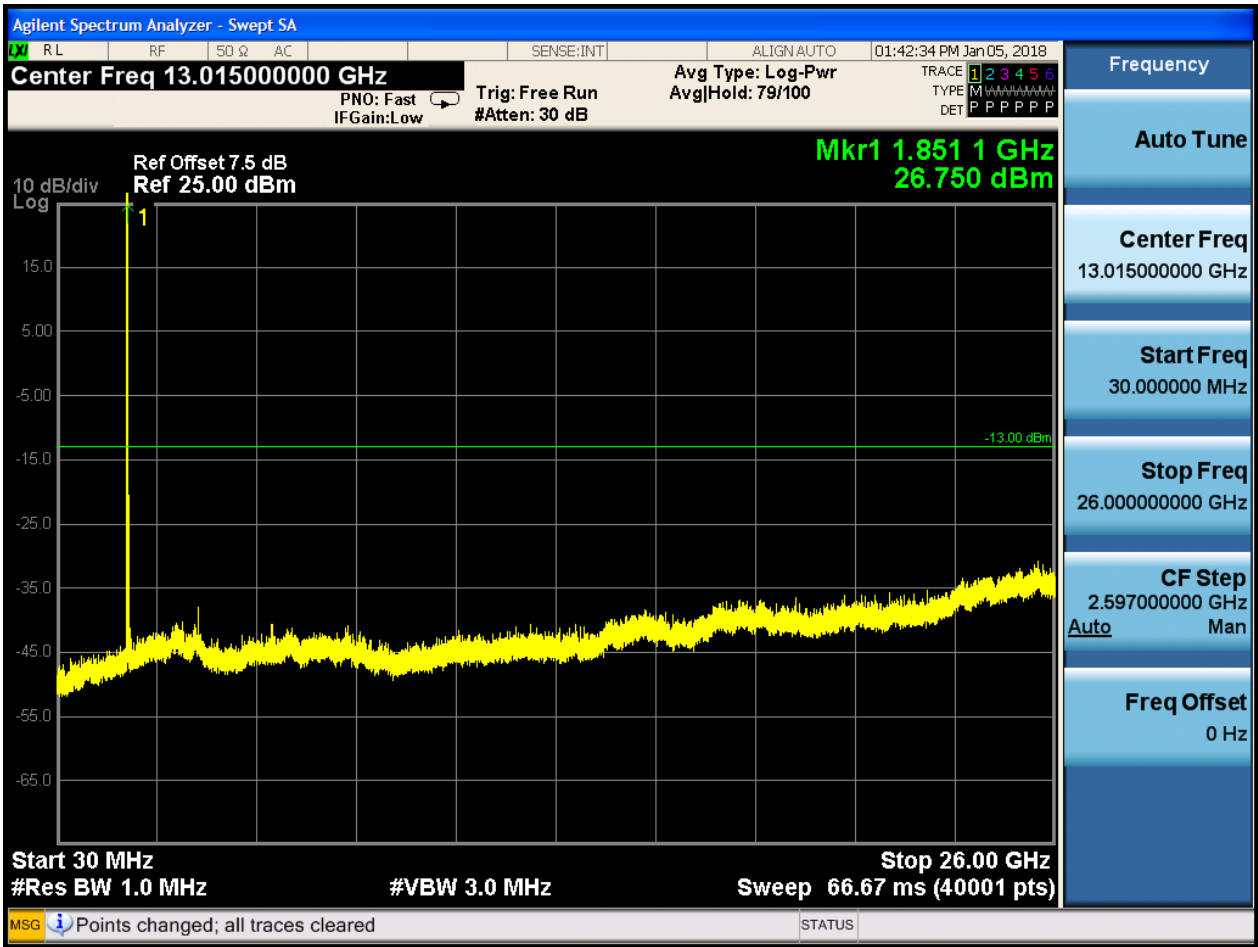
6.1.1.1.6 Test Bandwidth = 20

6.1.1.1.6.1 Test Channel = LCH

6.1.1.1.6.1.1 Test RB = RB1#0



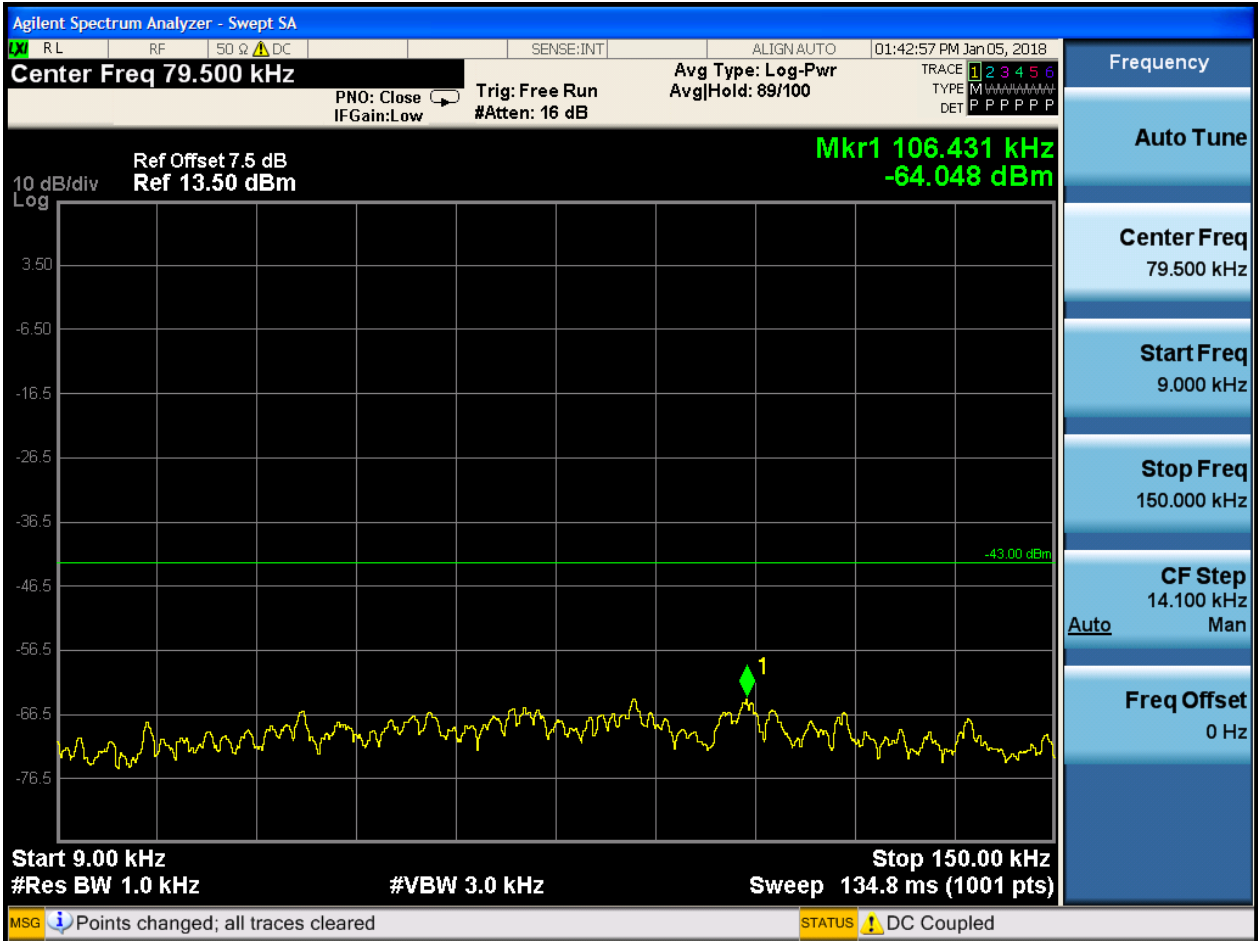




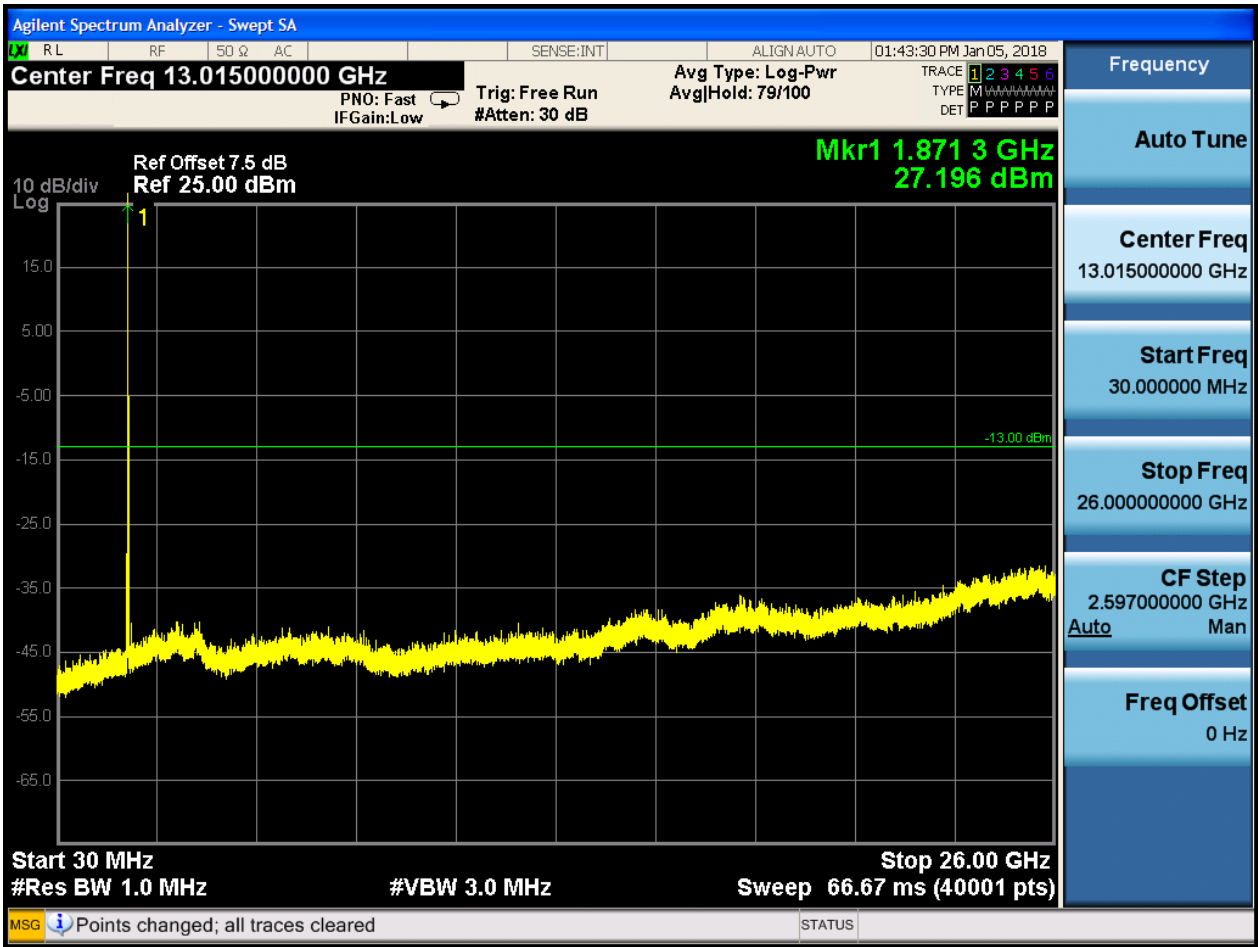


6.1.1.1.6.2 Test Channel = MCH

6.1.1.1.6.2.1 Test RB = RB1#0



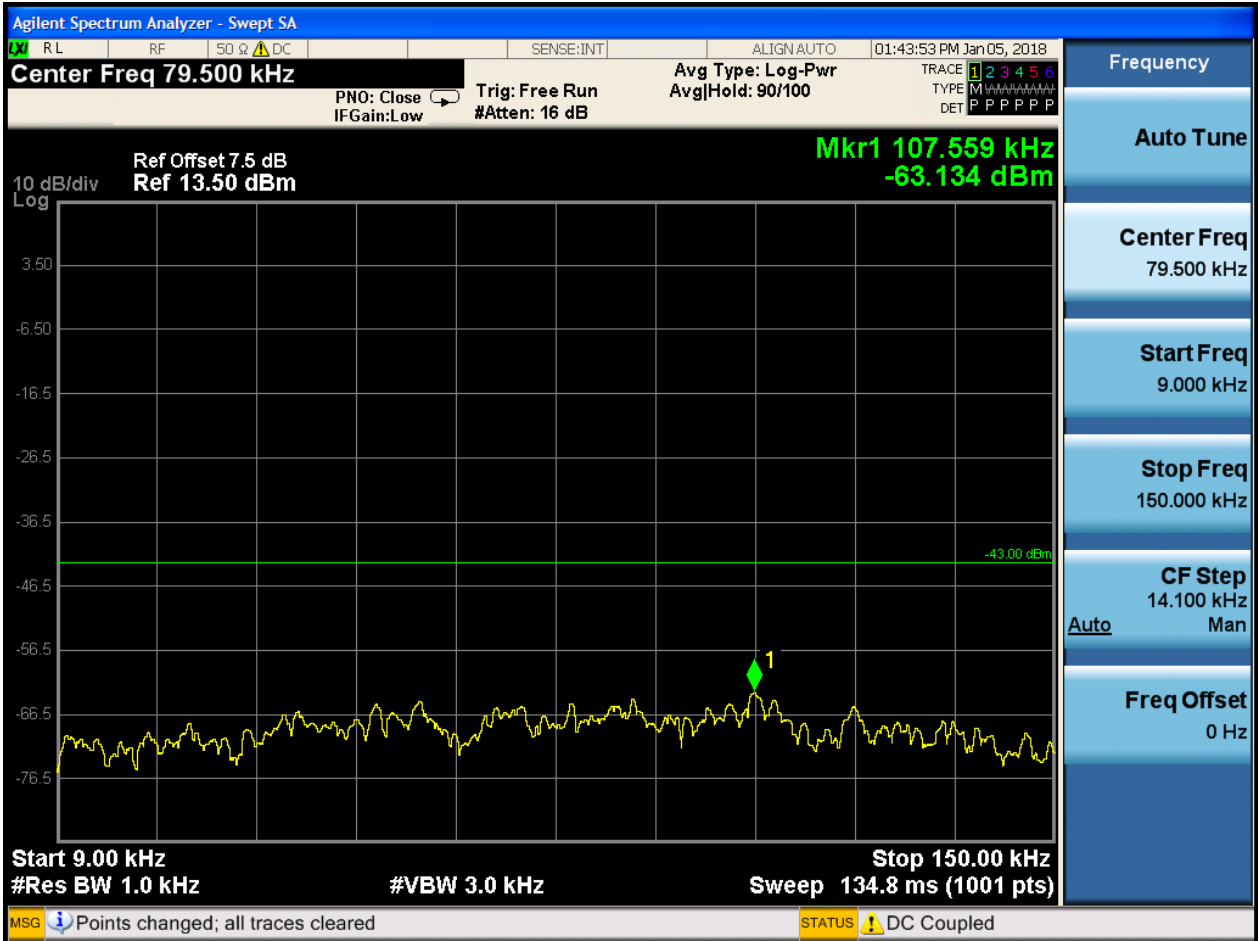


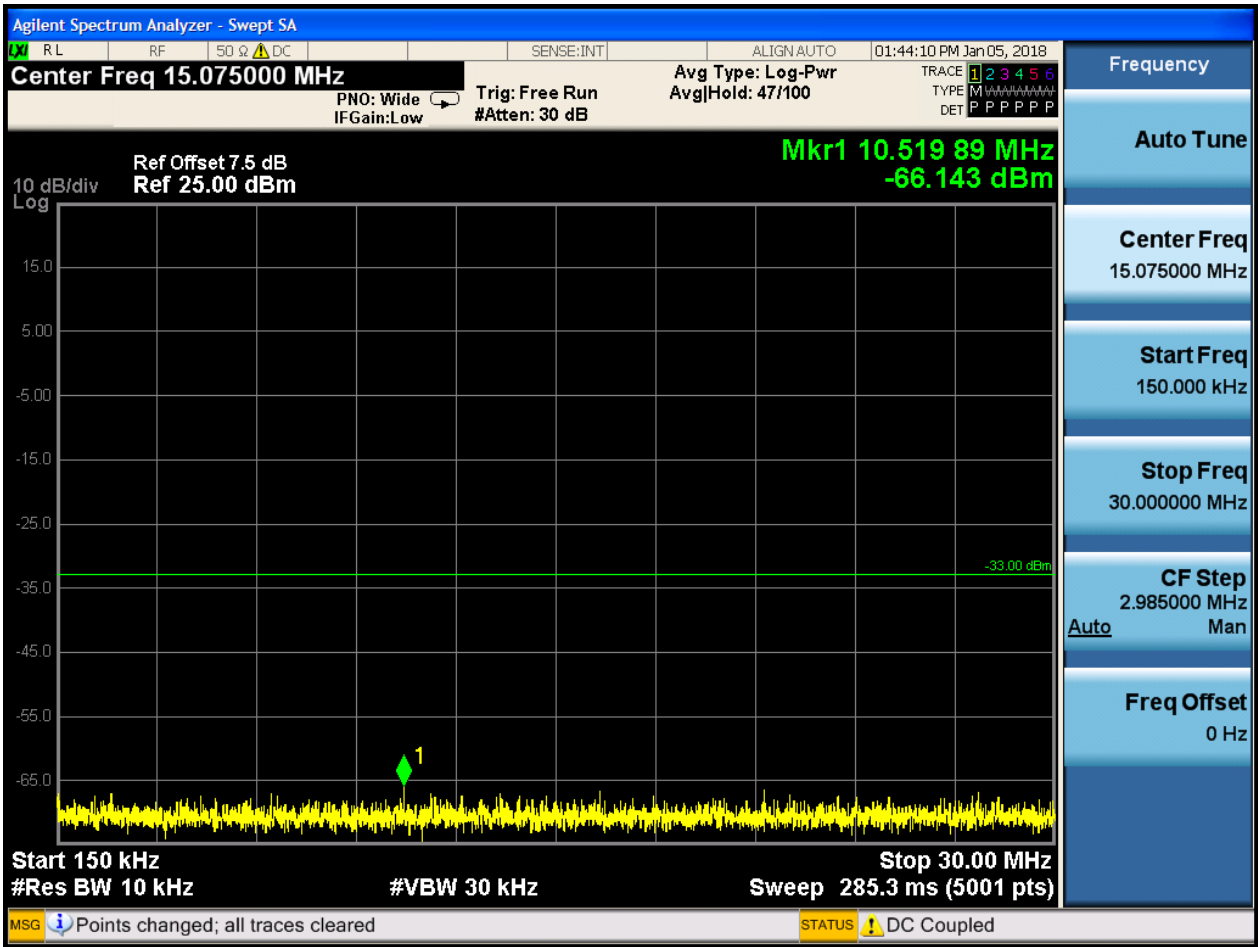


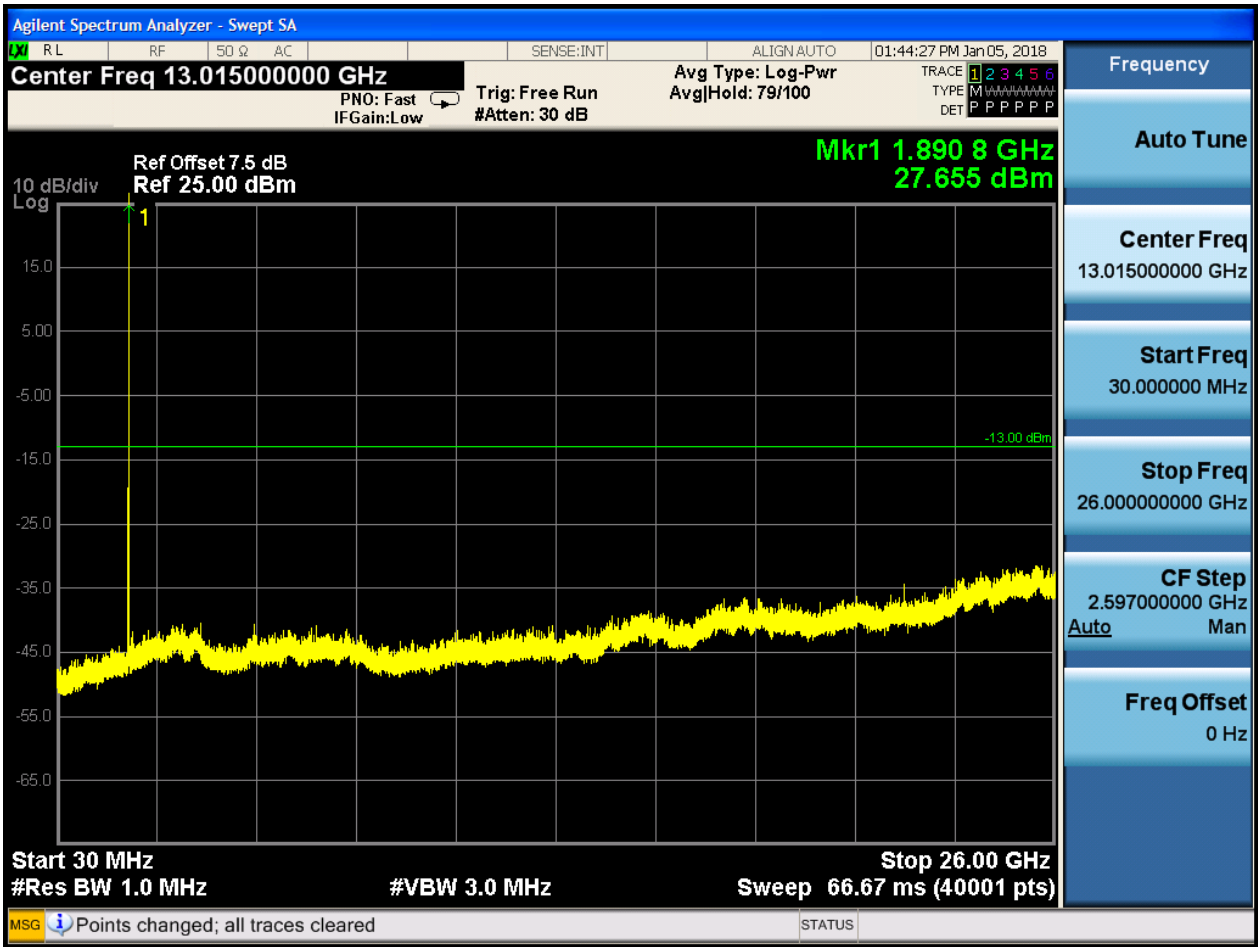


6.1.1.1.6.3 Test Channel = HCH

6.1.1.1.6.3.1 Test RB = RB1#0







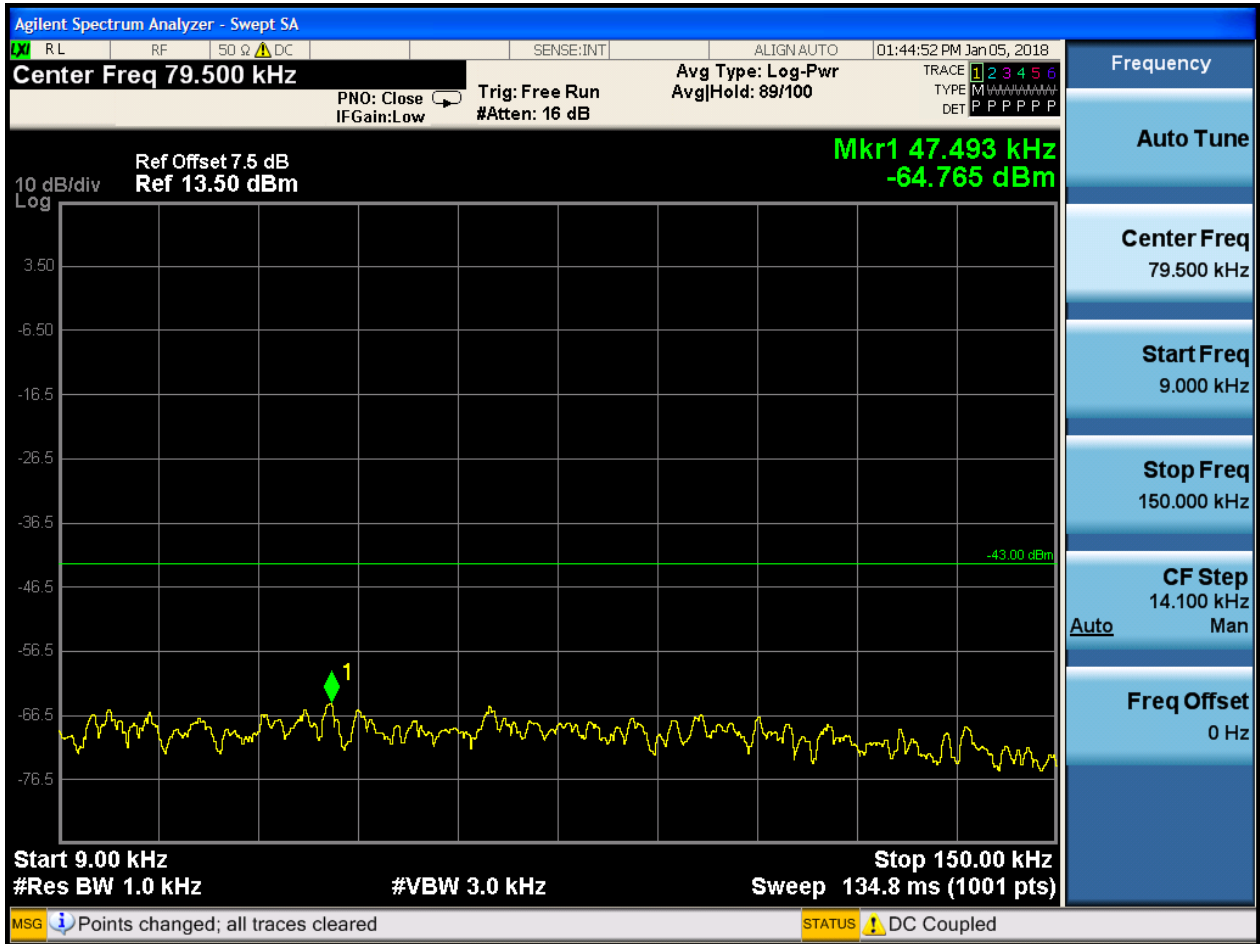


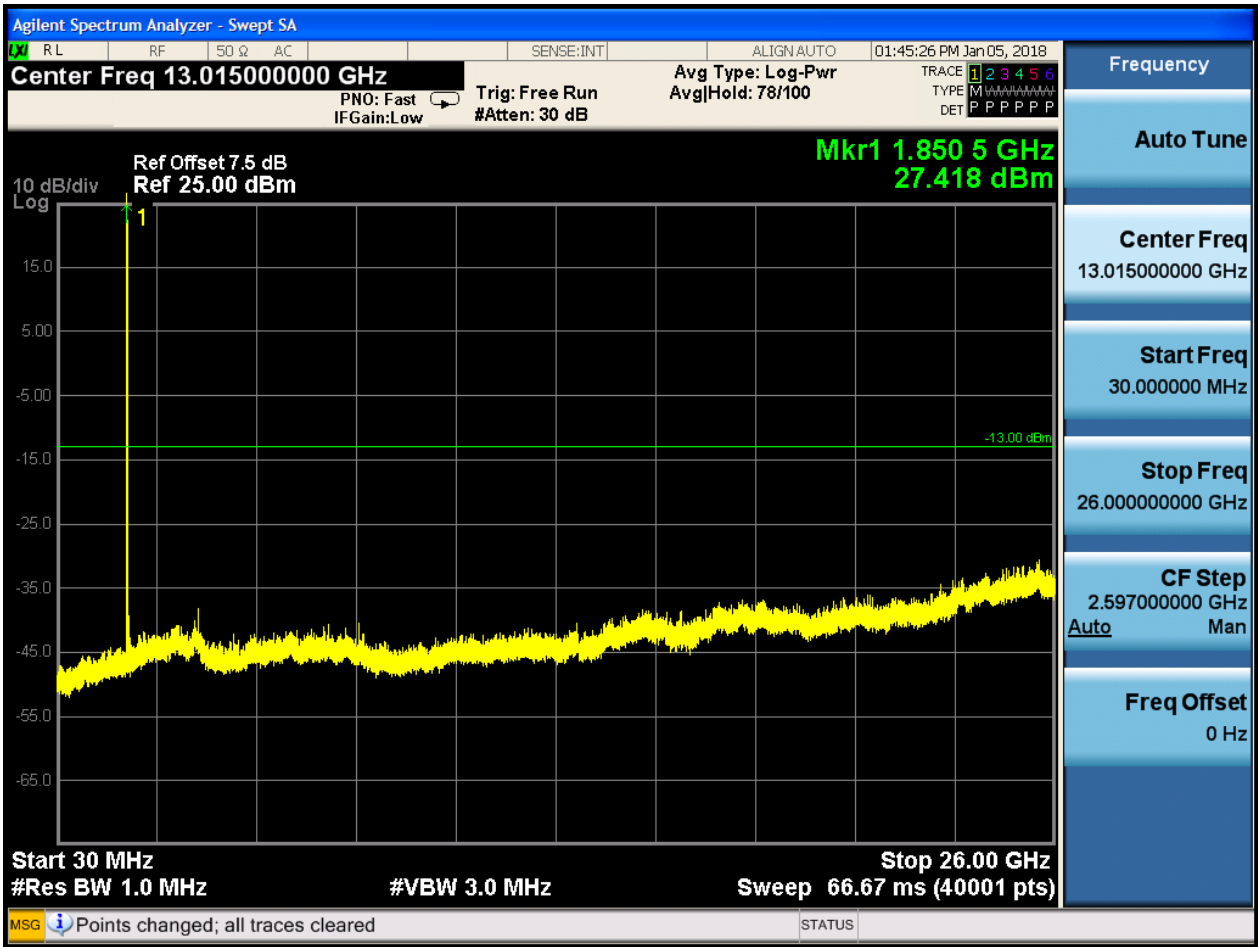
6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

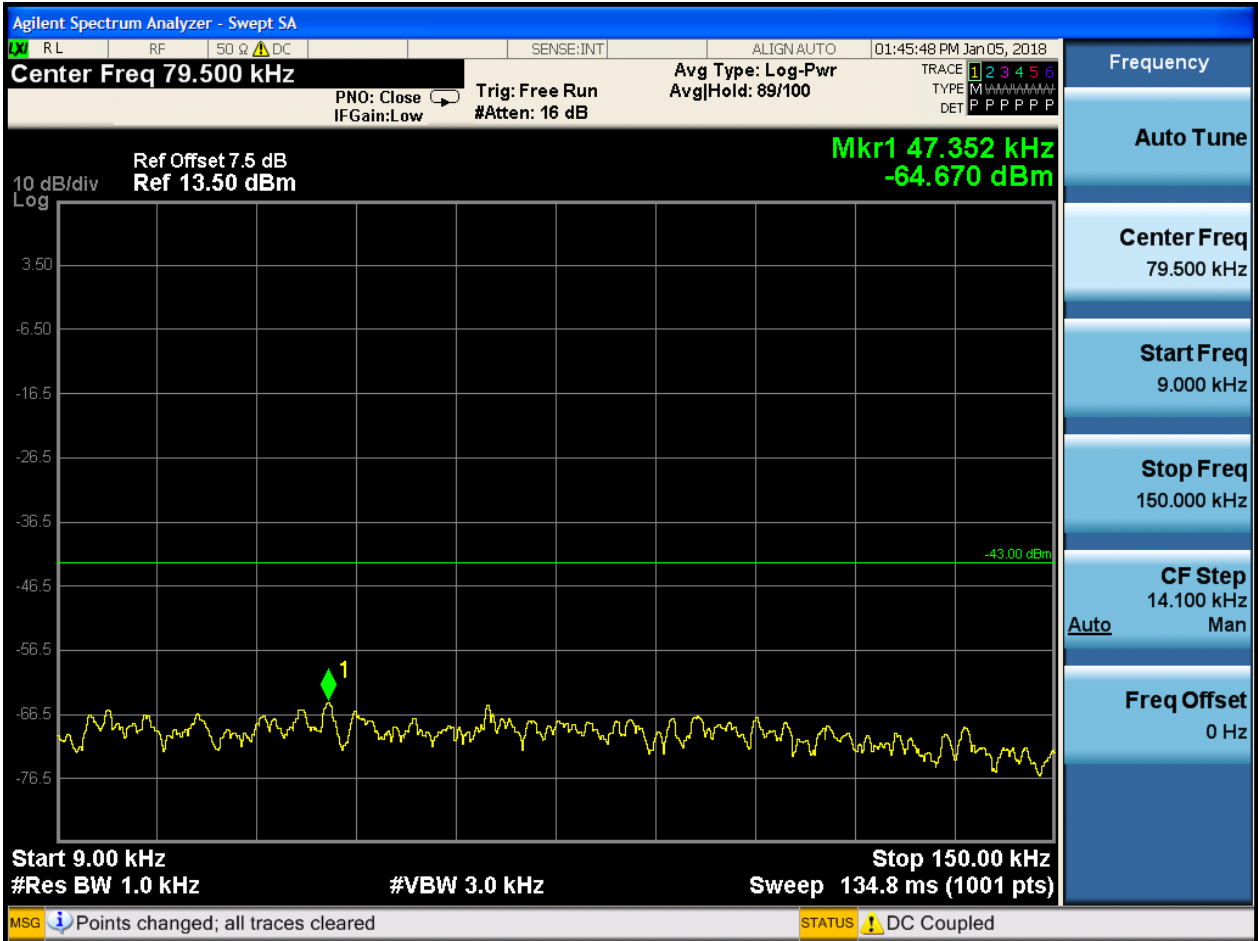


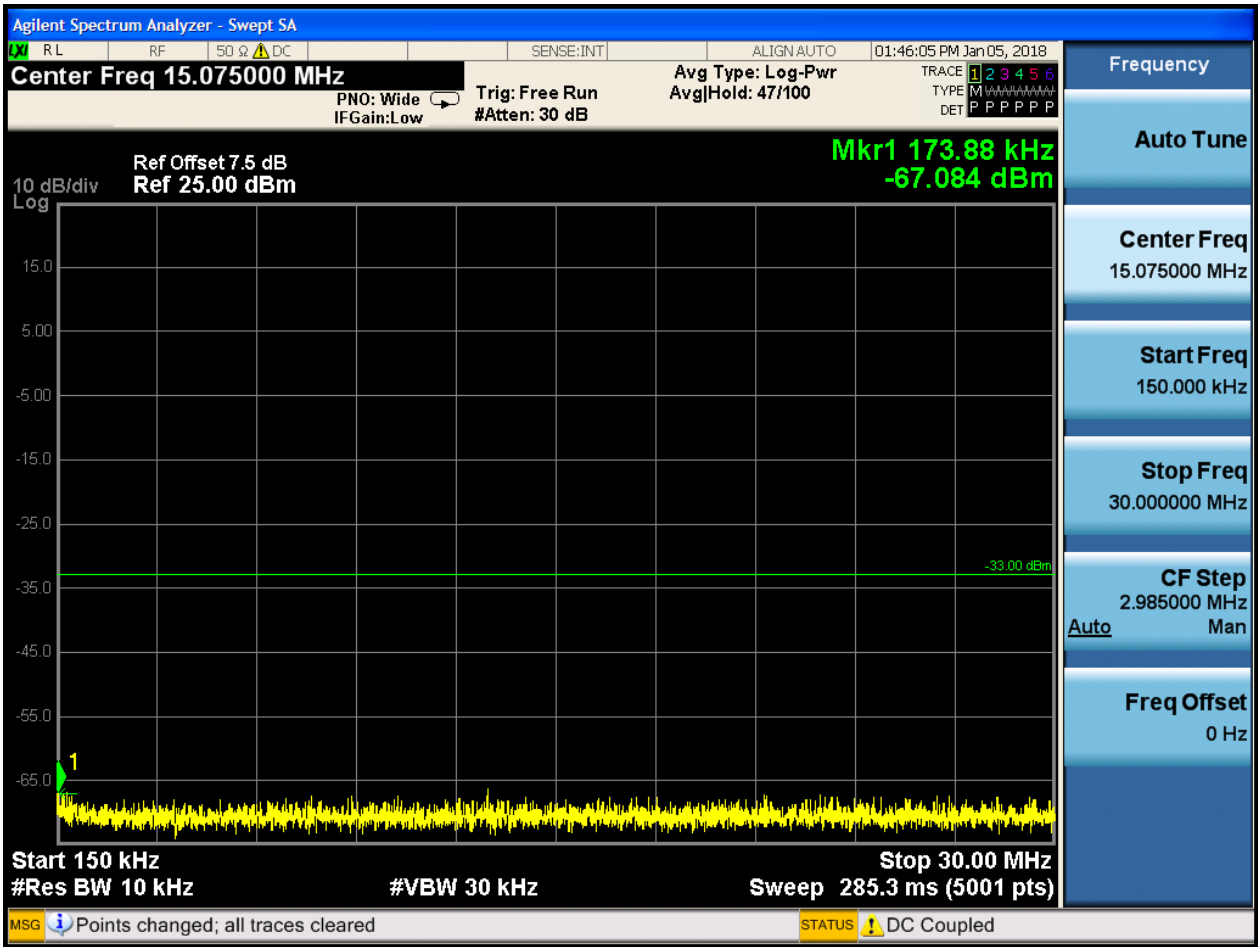


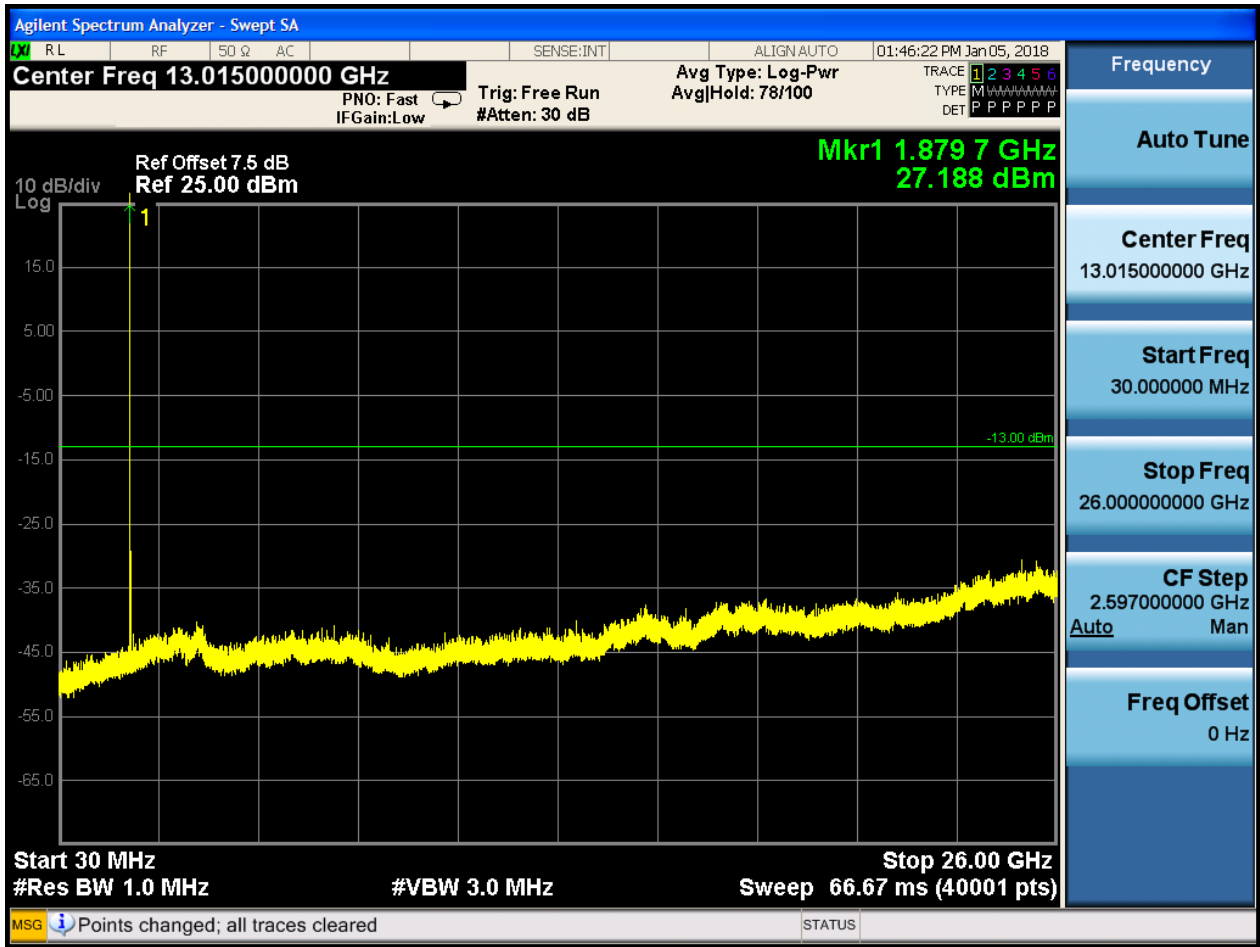


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



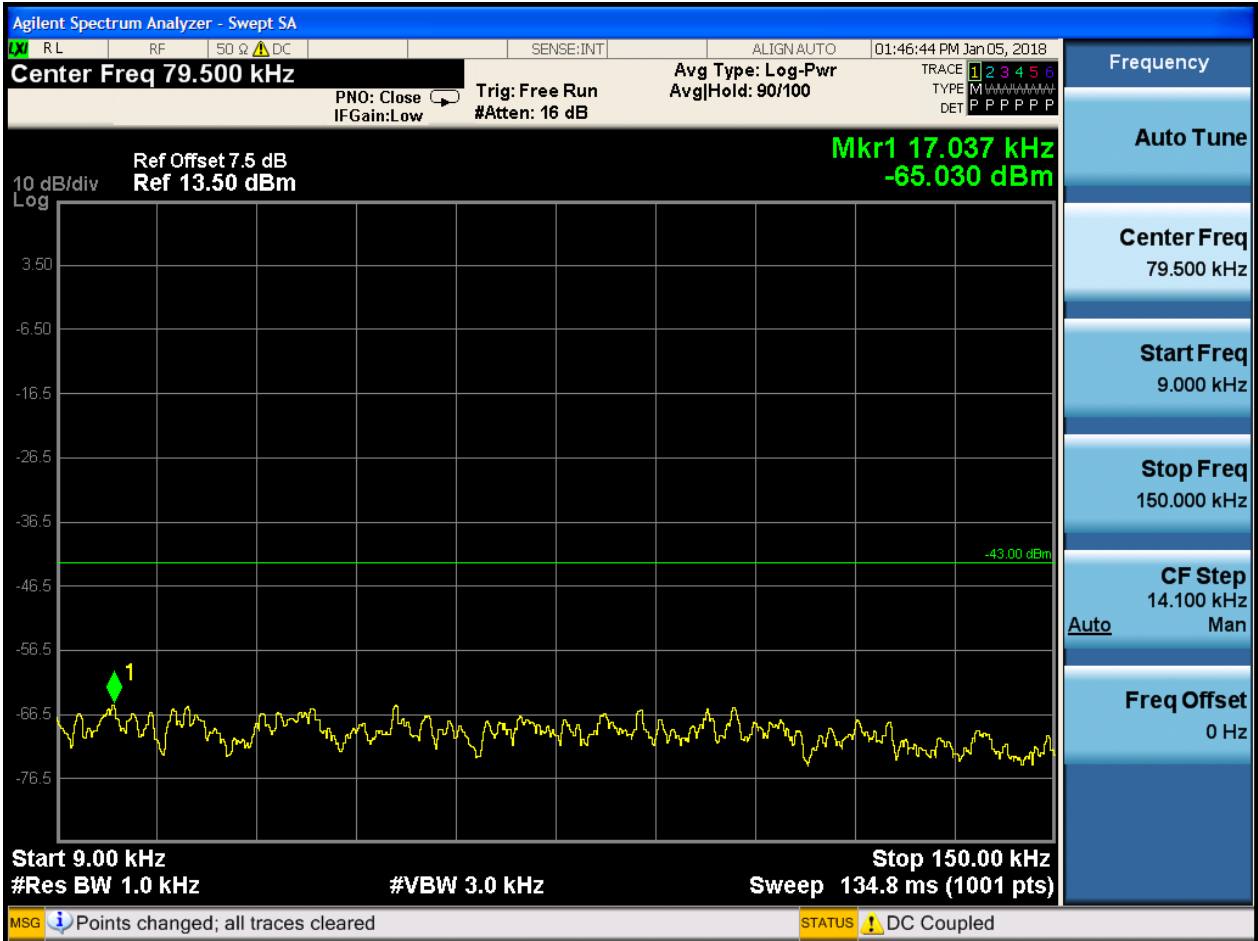


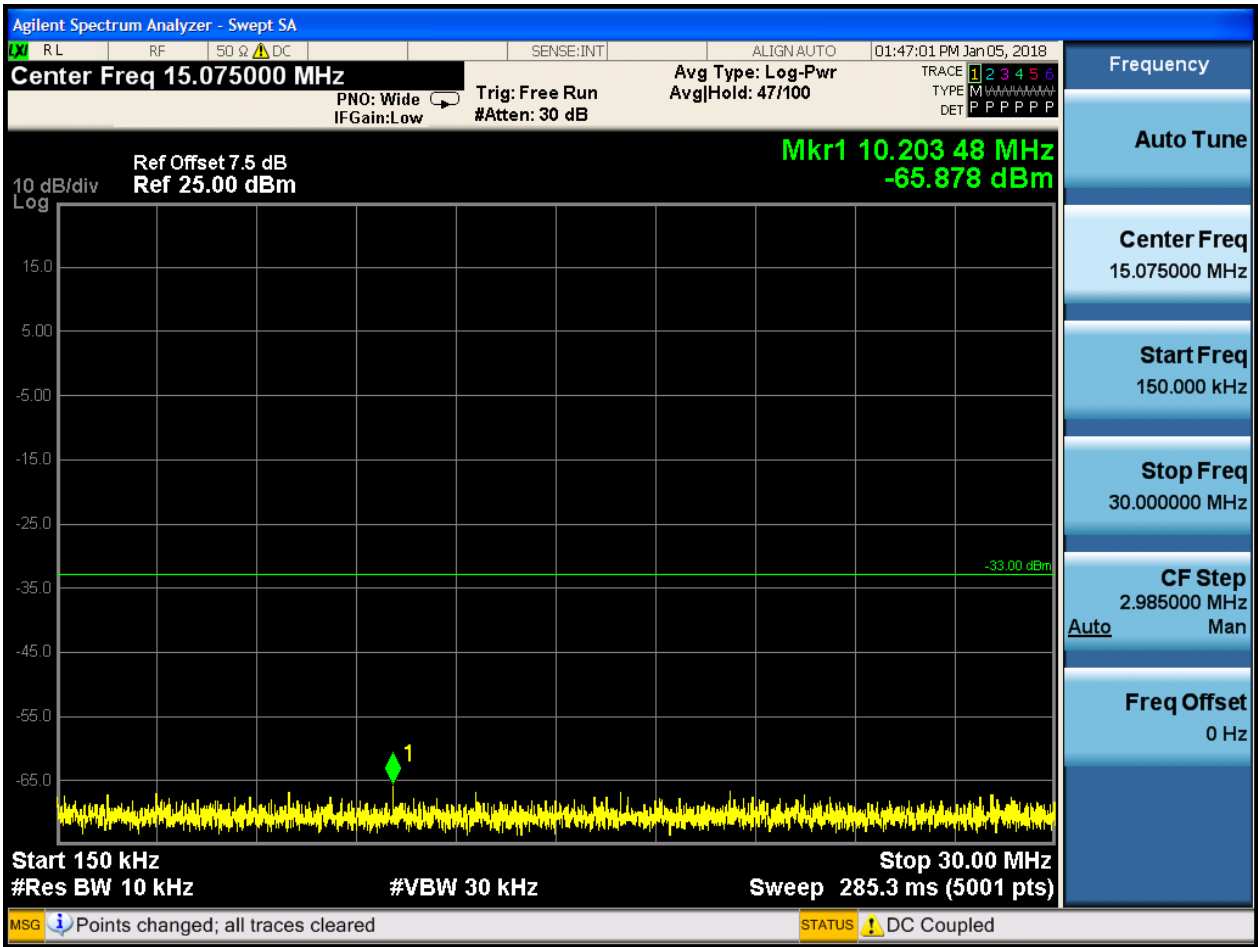


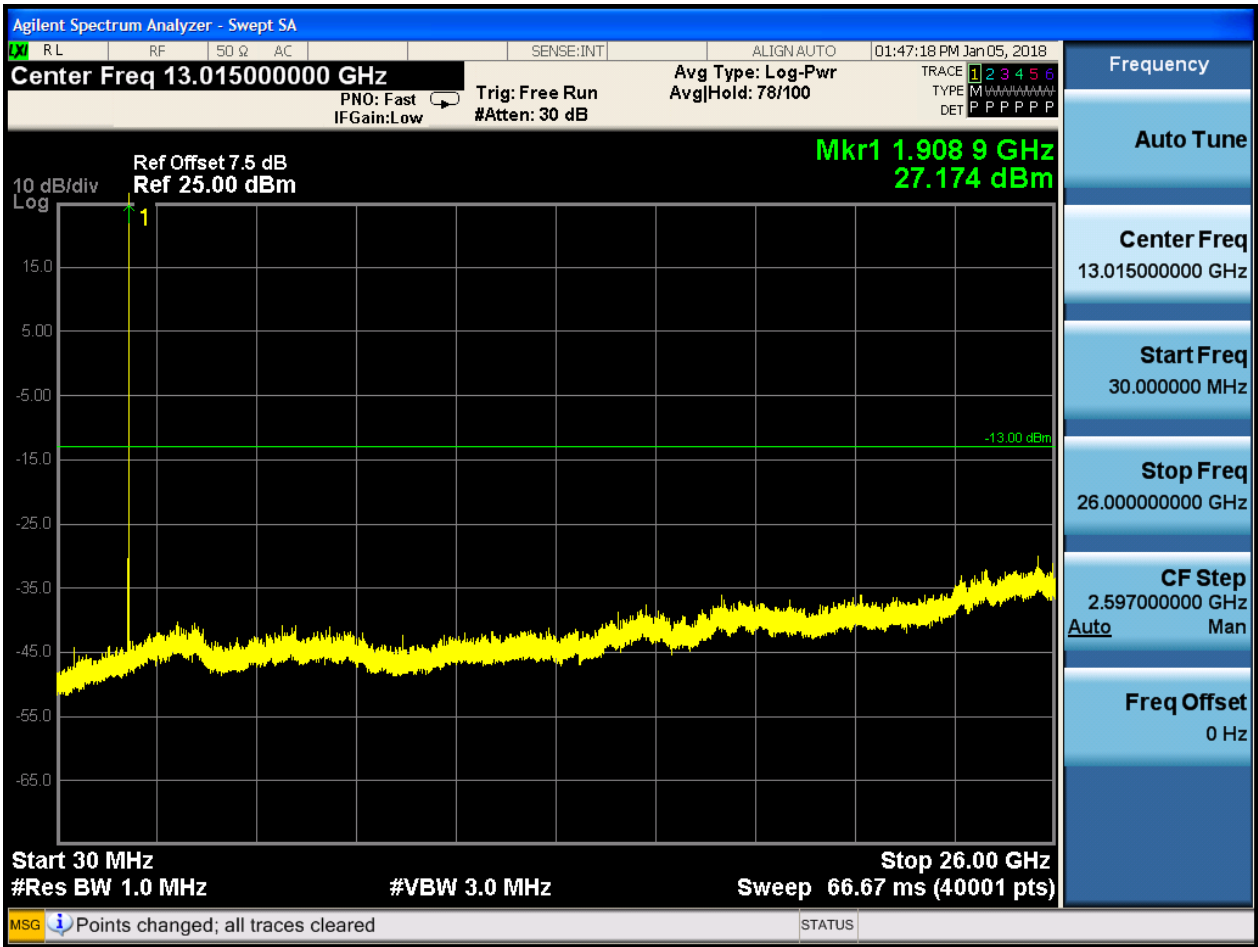


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





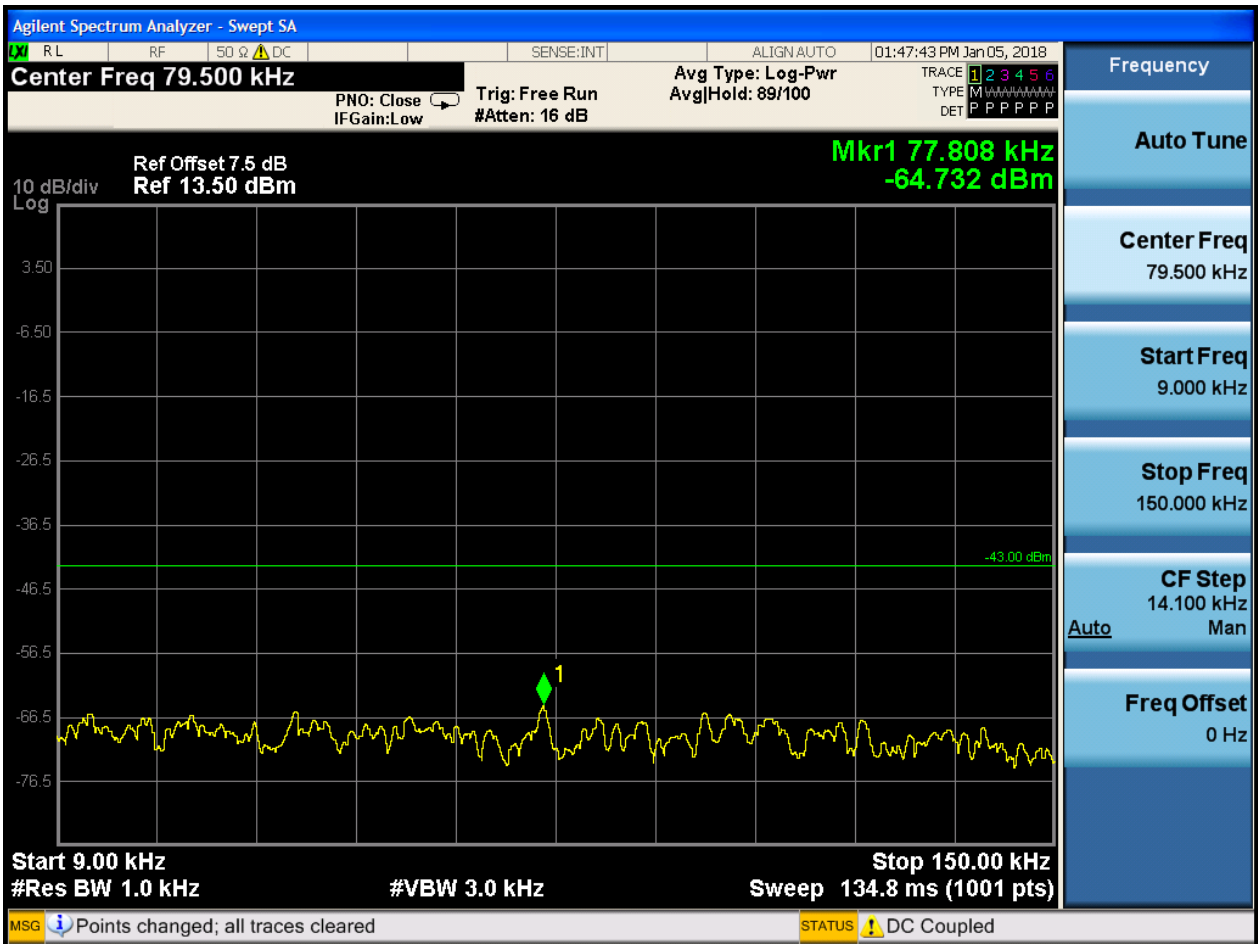


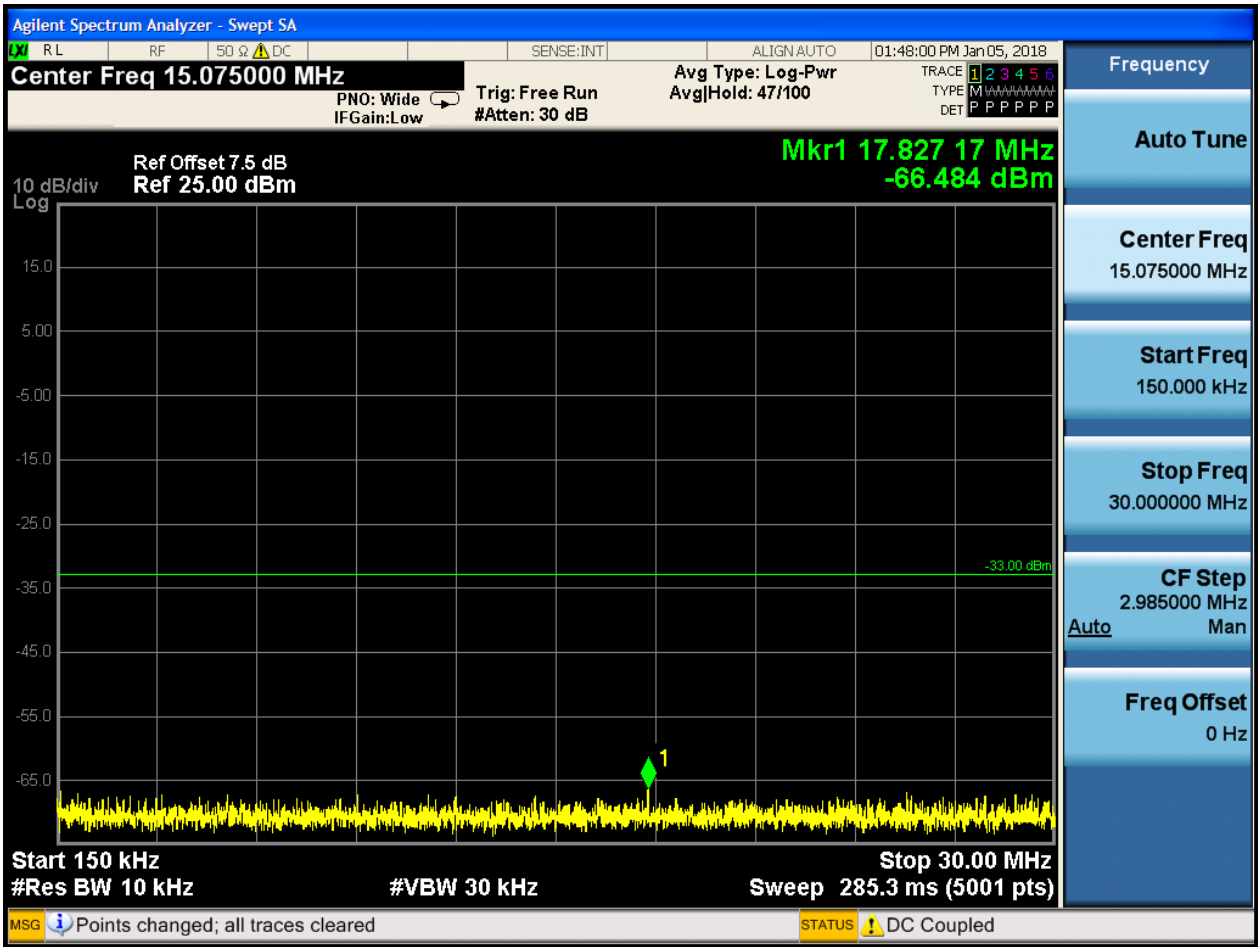


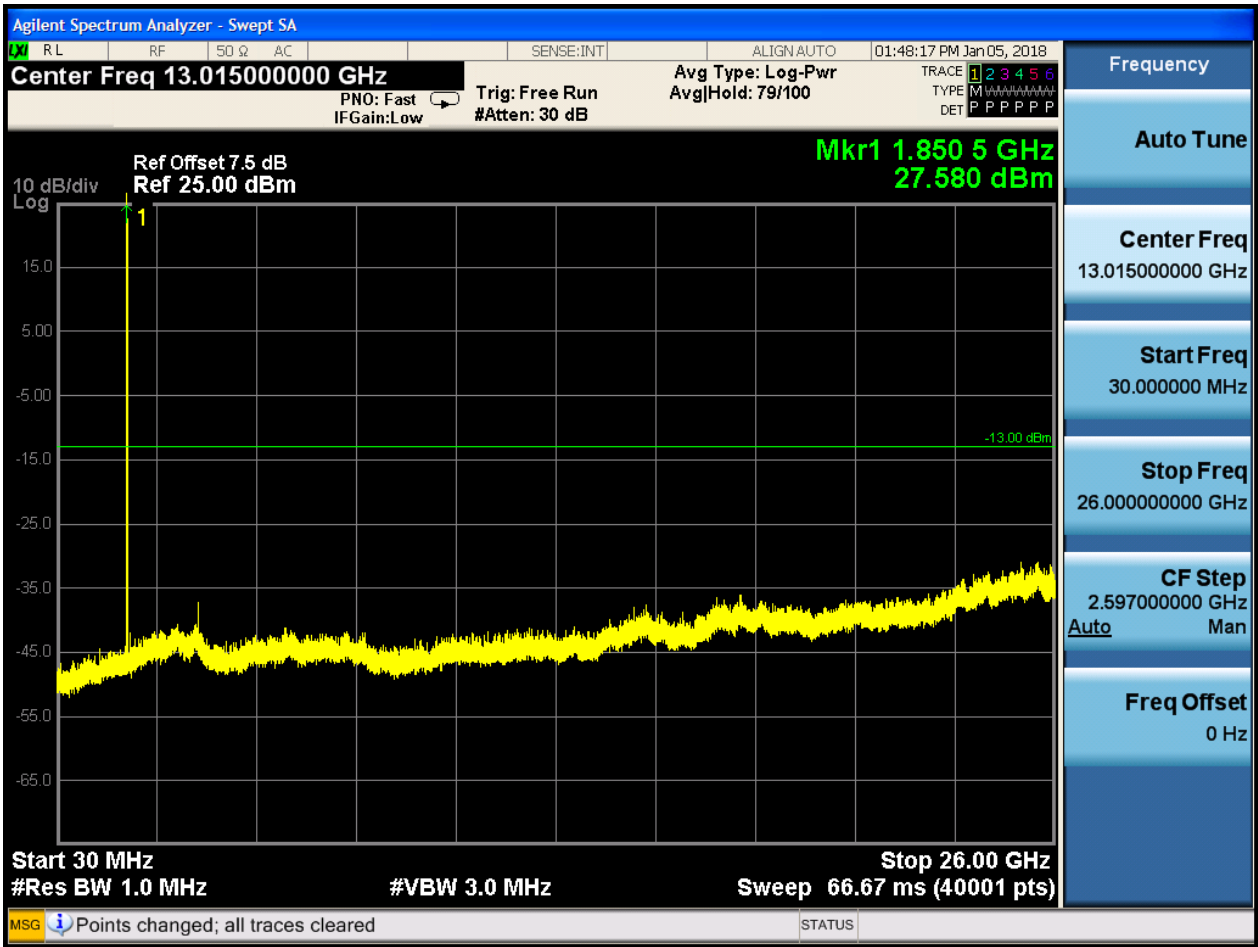
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



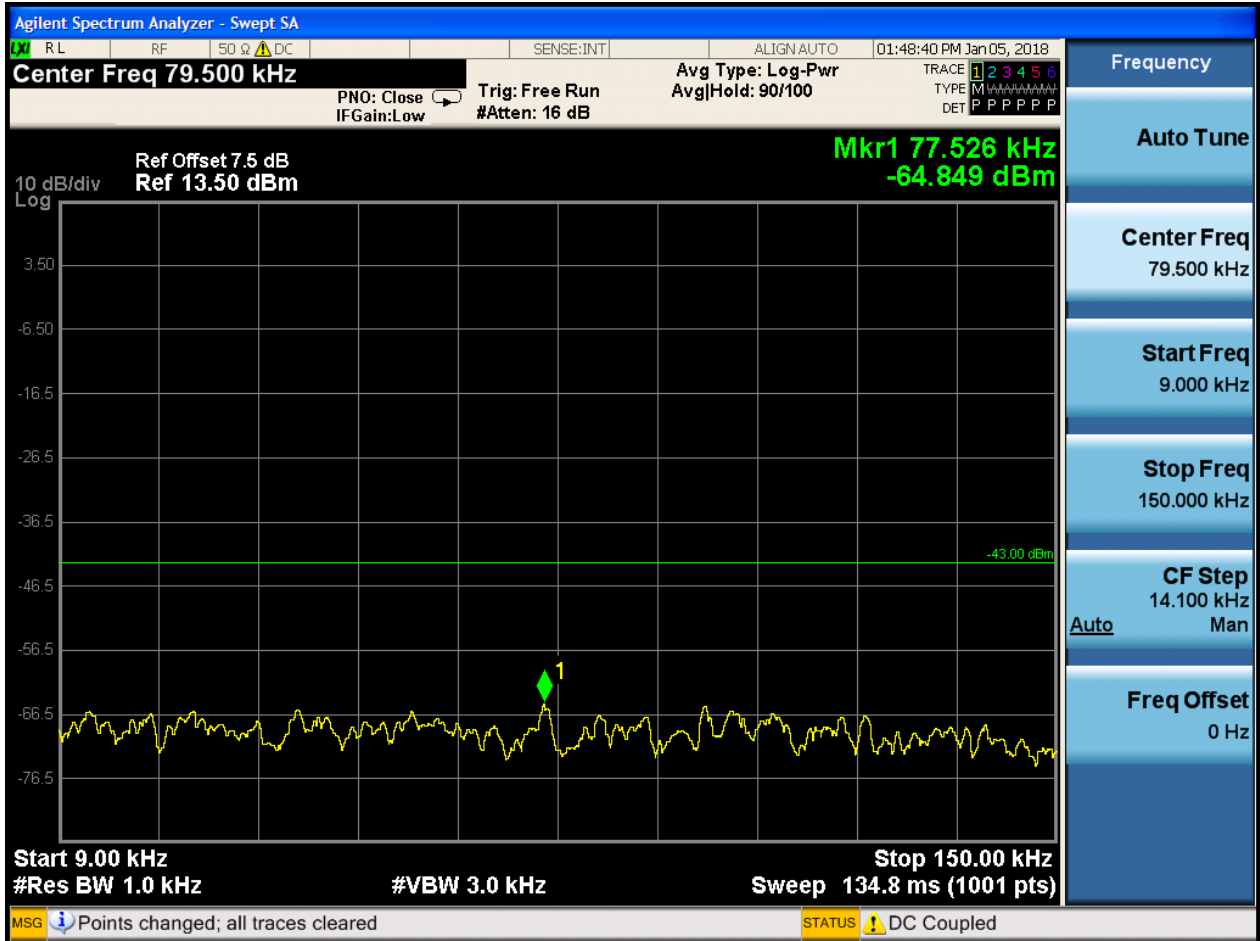


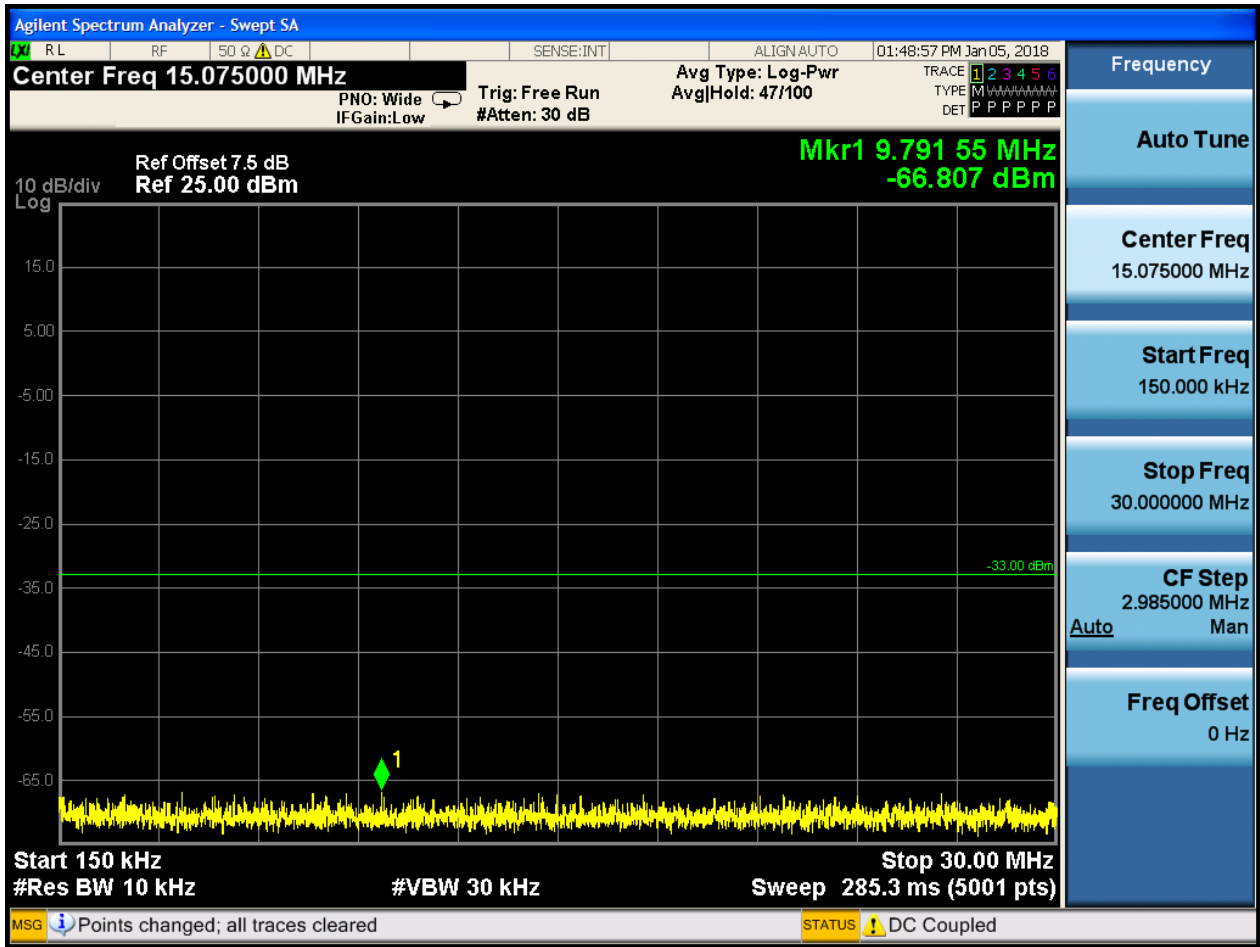


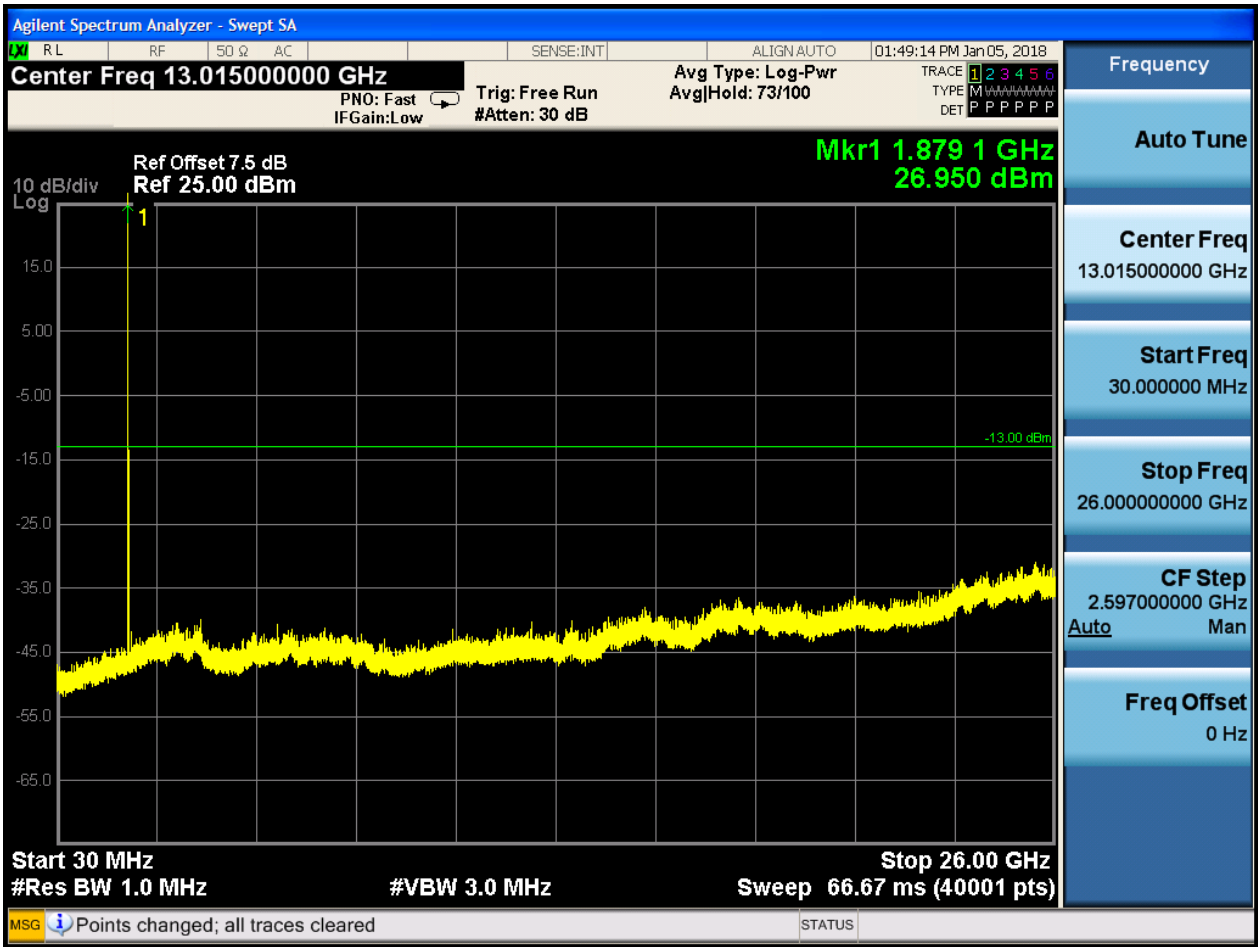


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



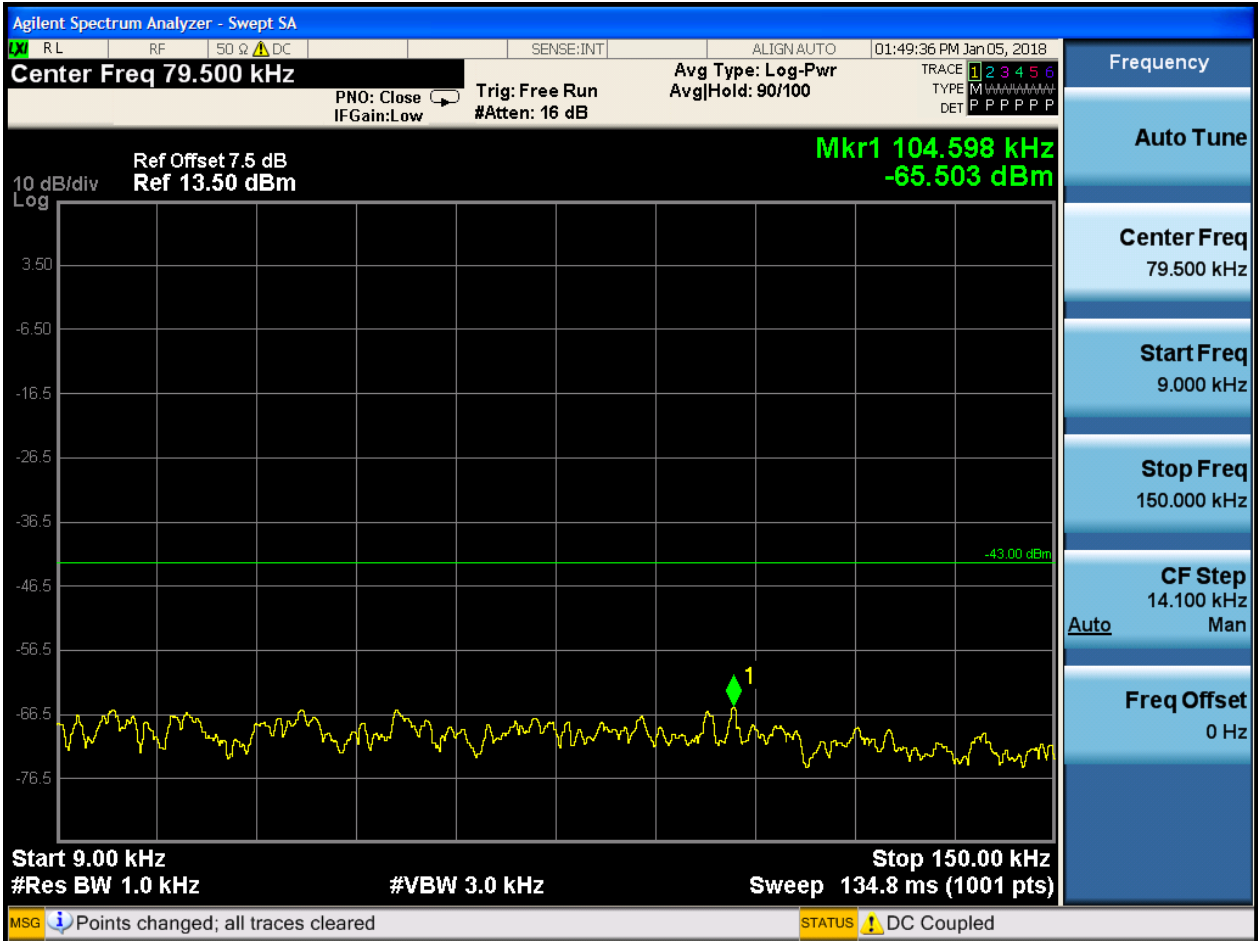


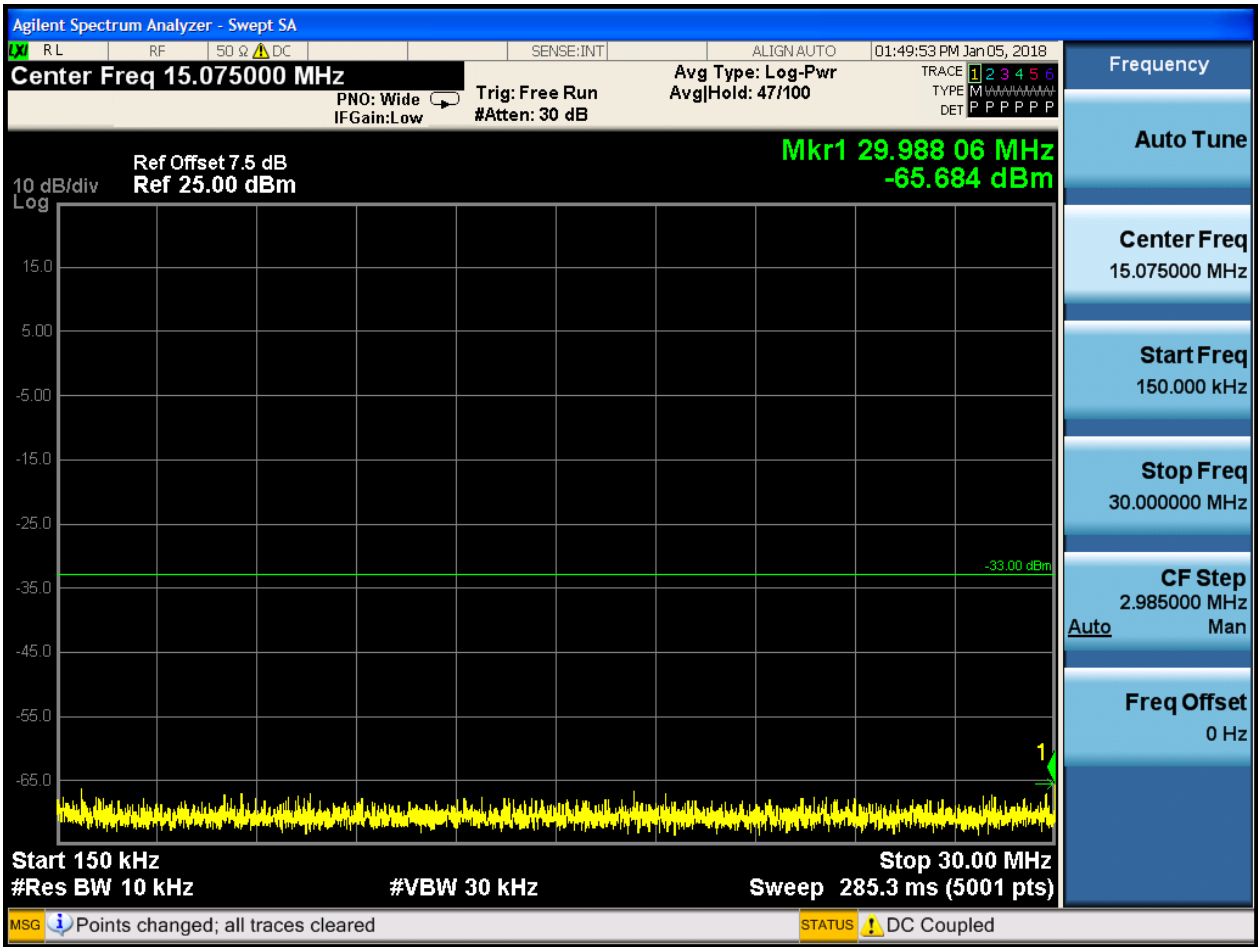


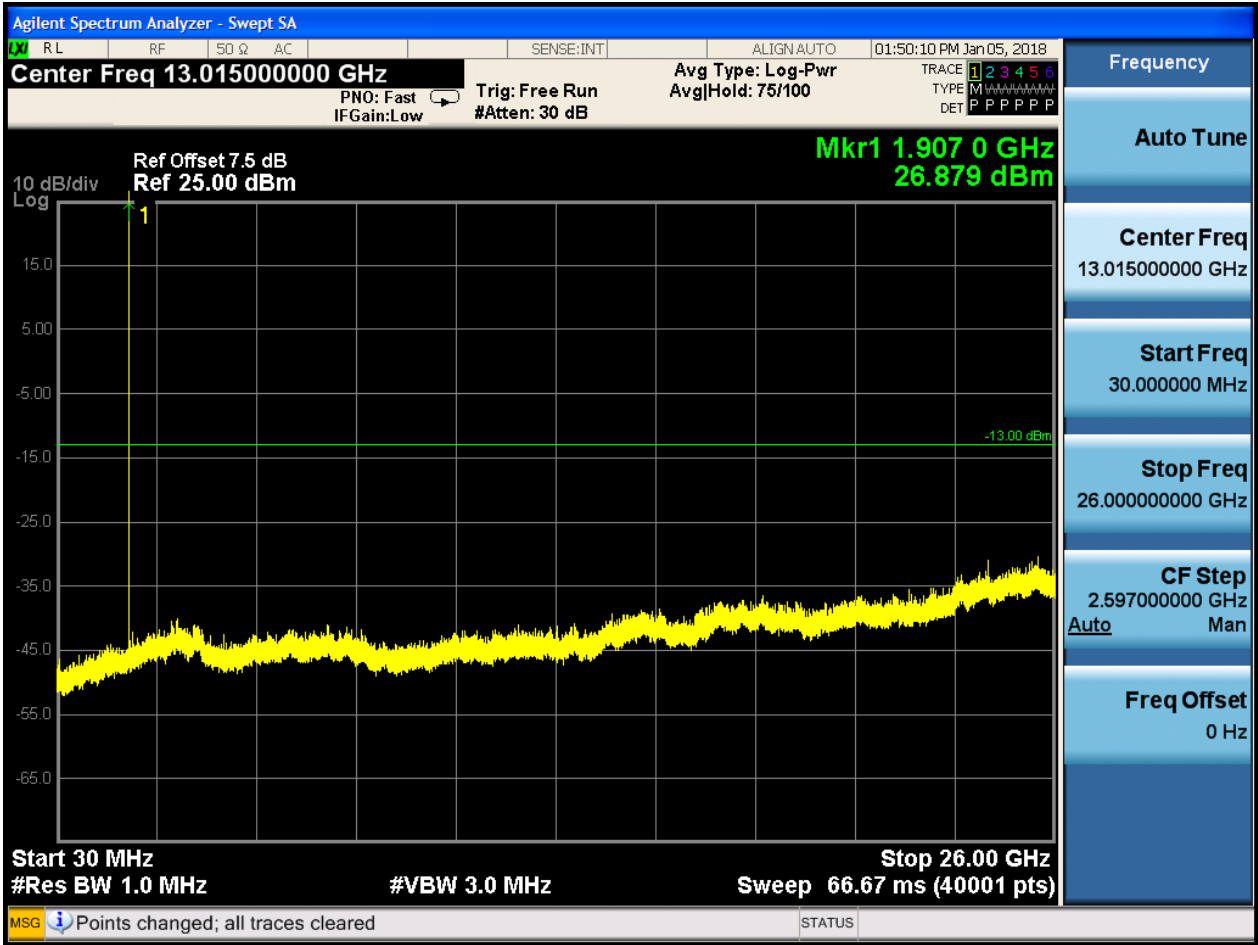


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





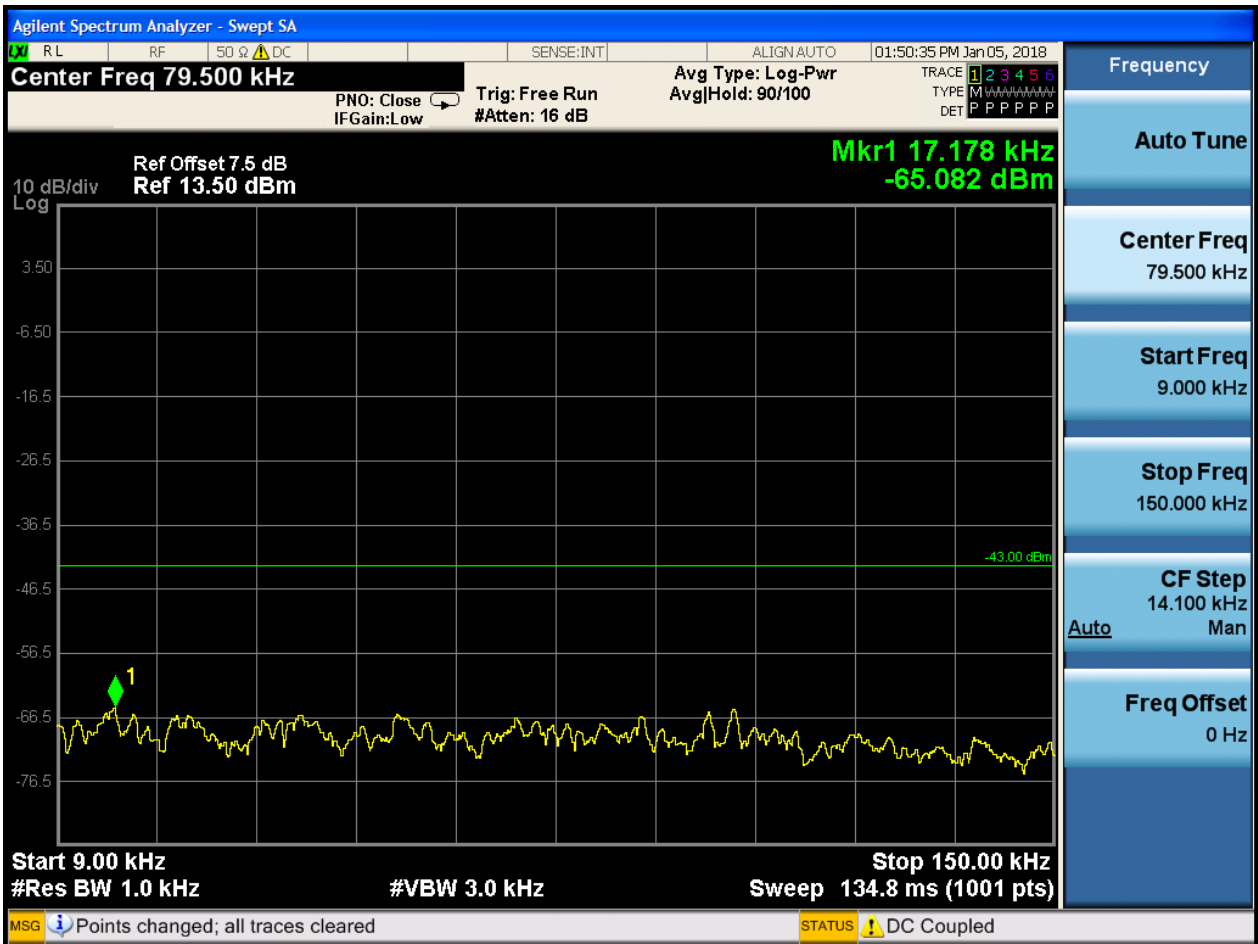


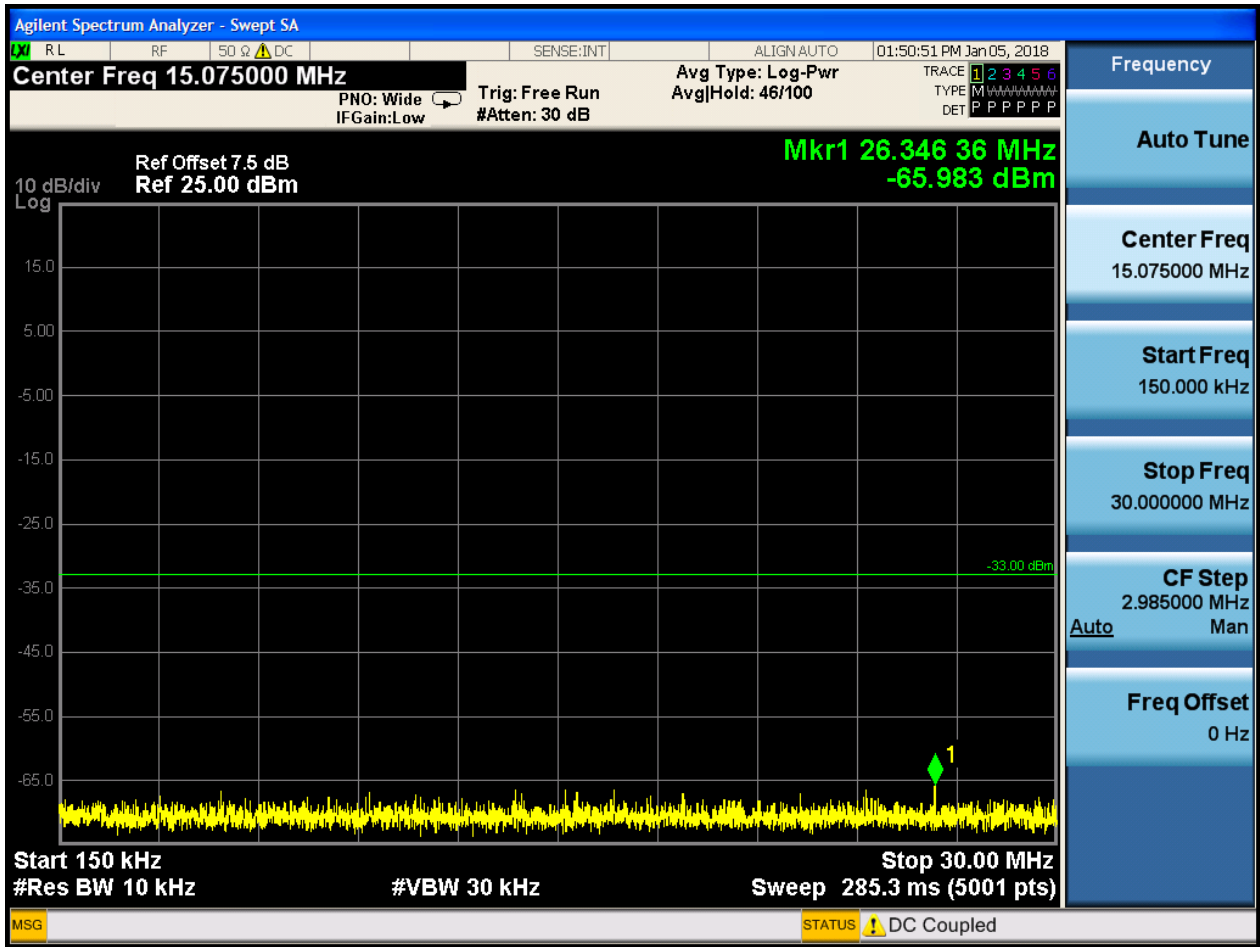


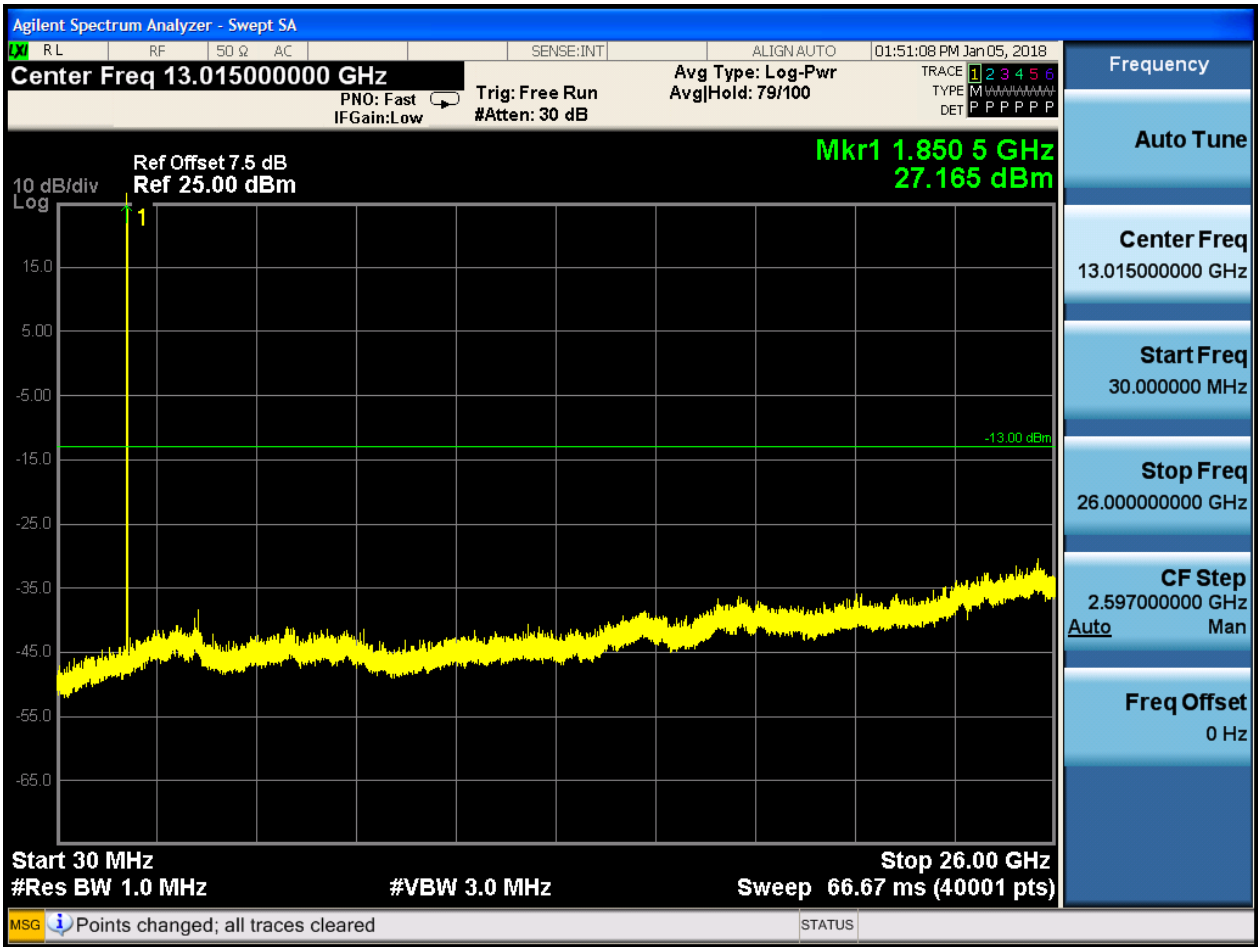
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



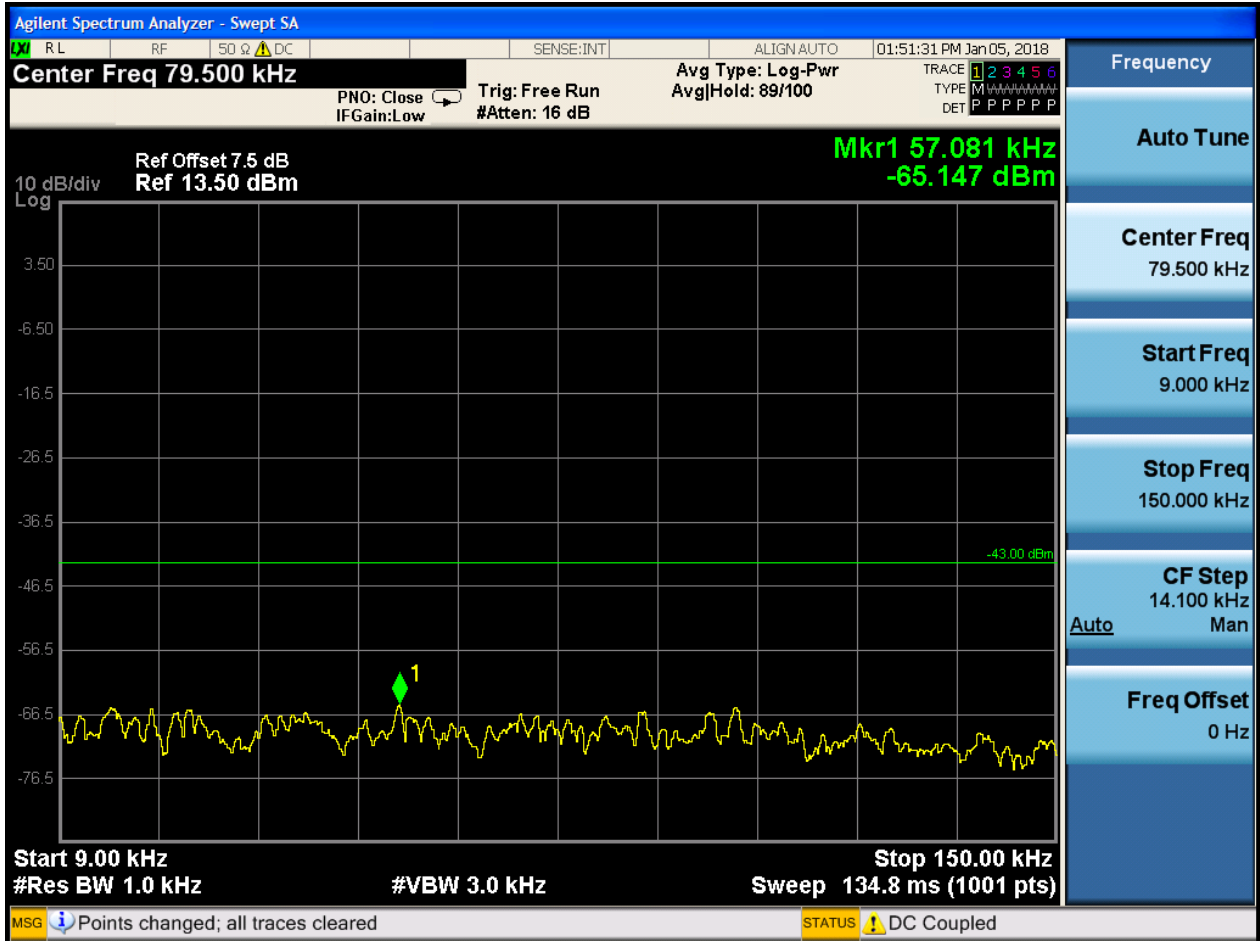


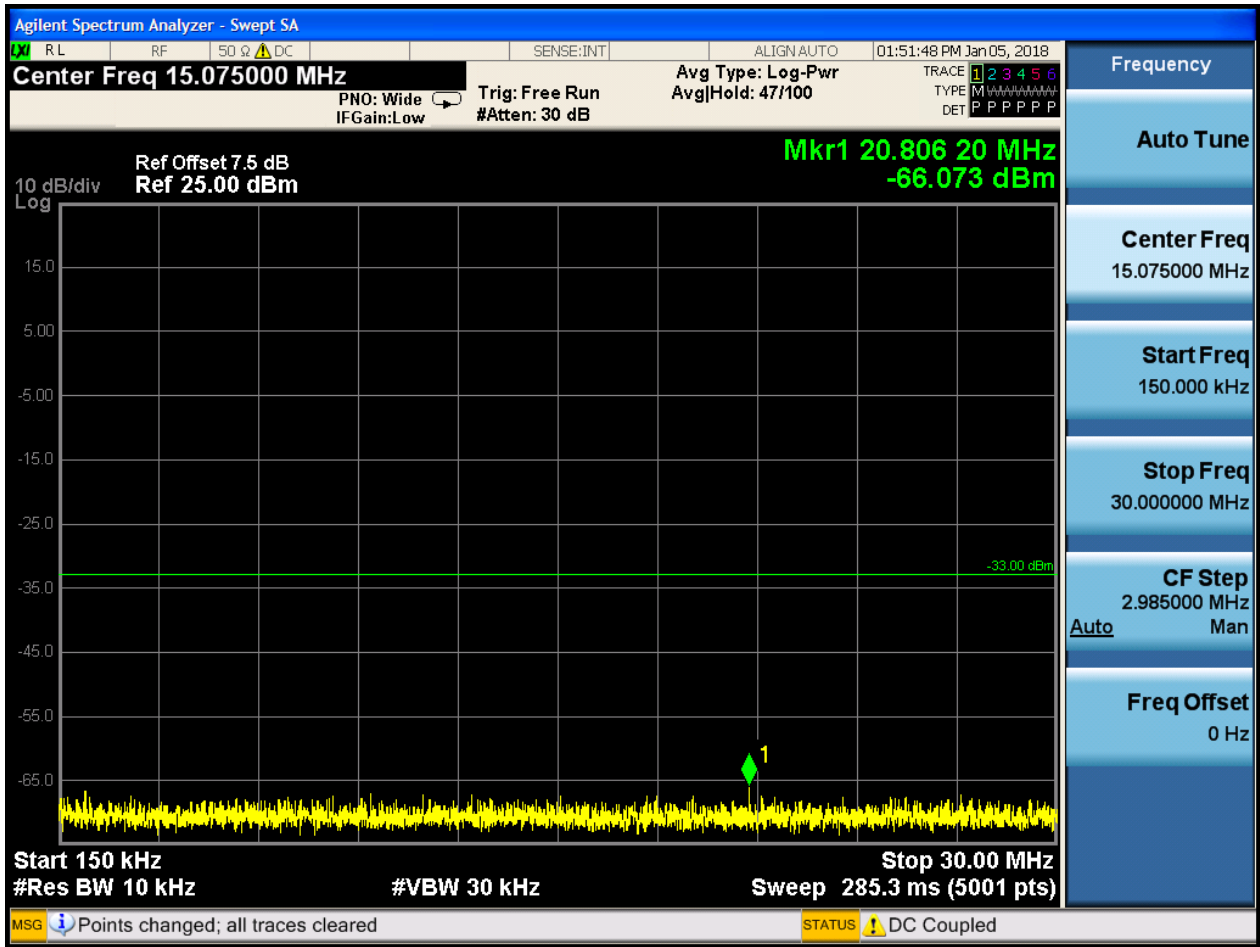


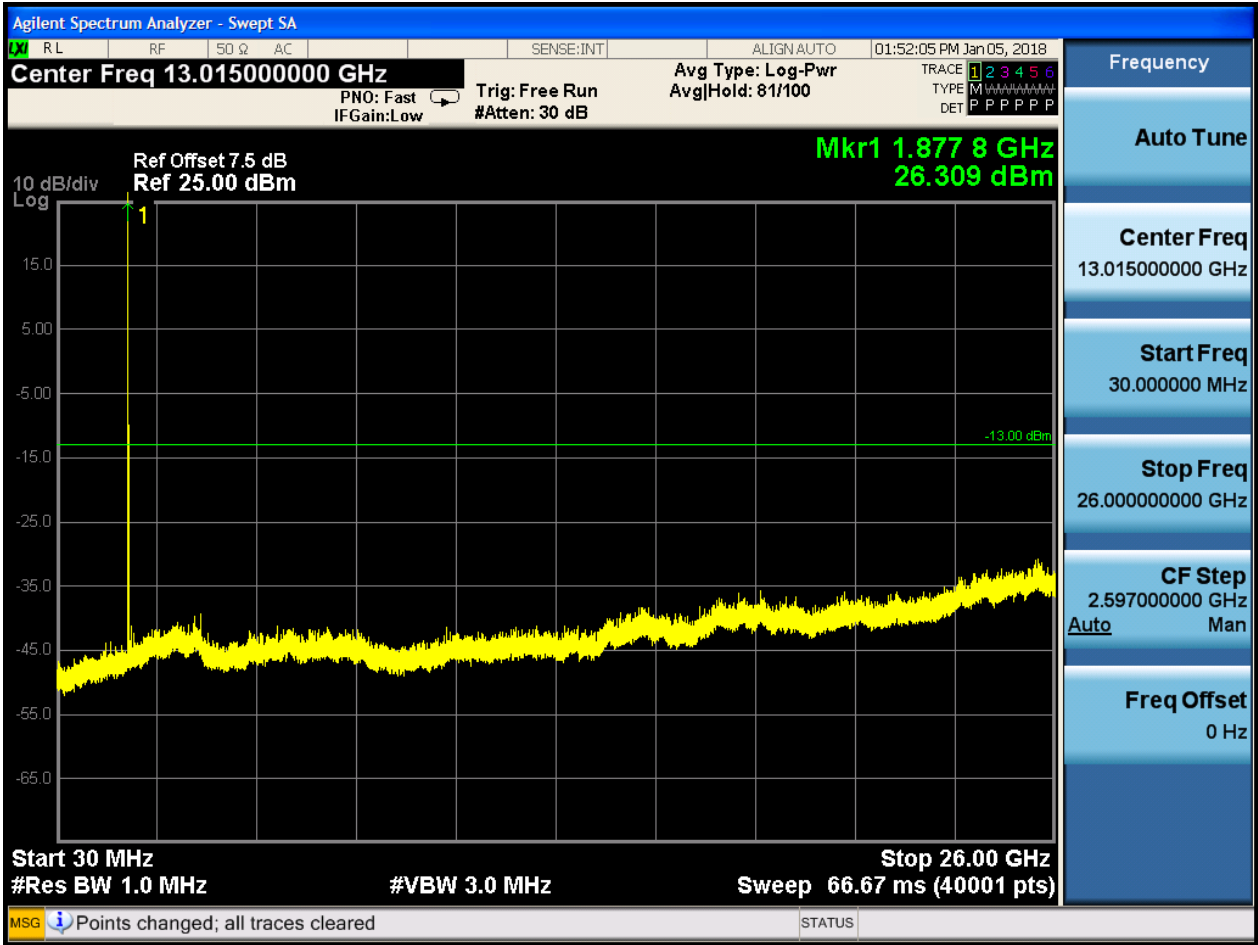


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



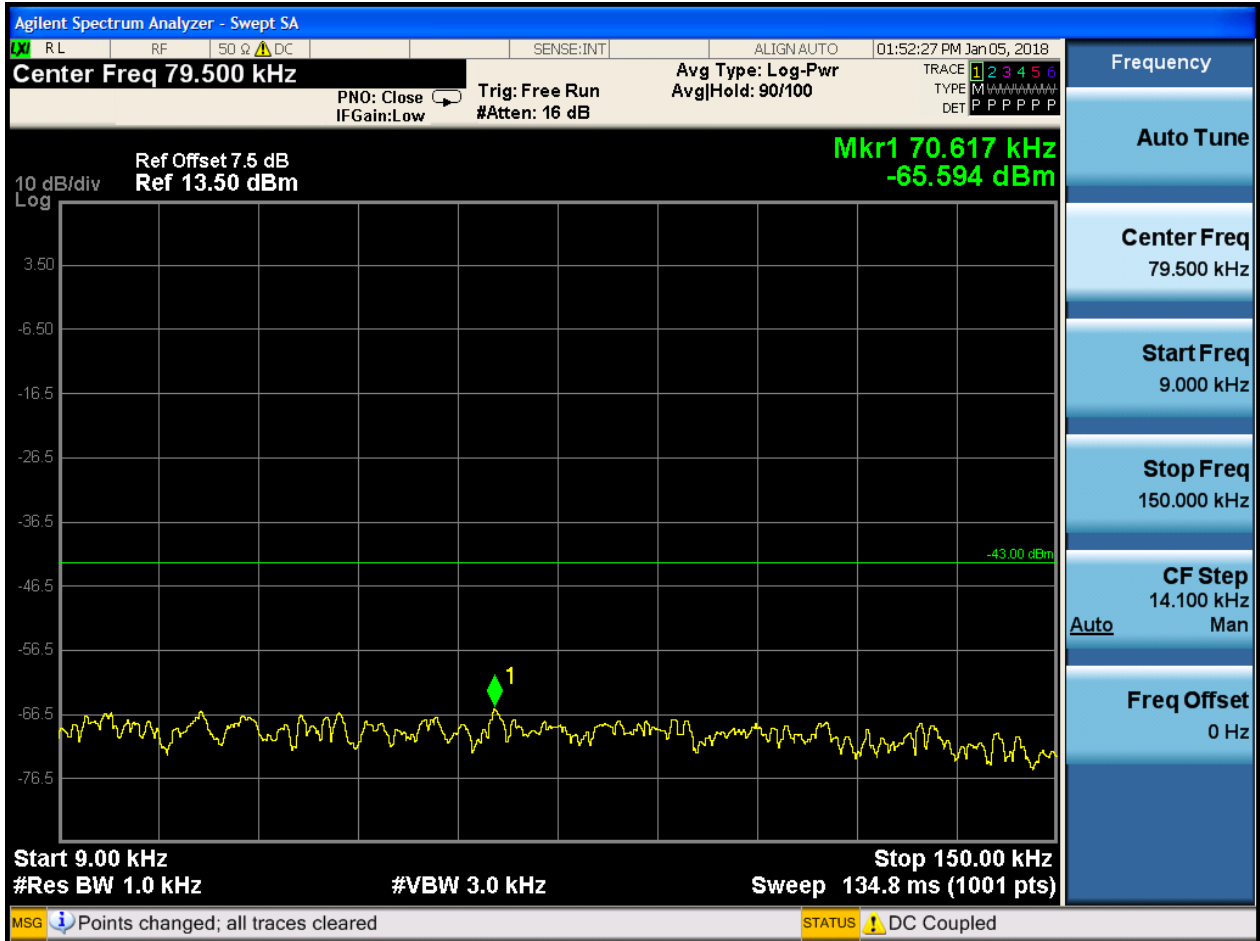


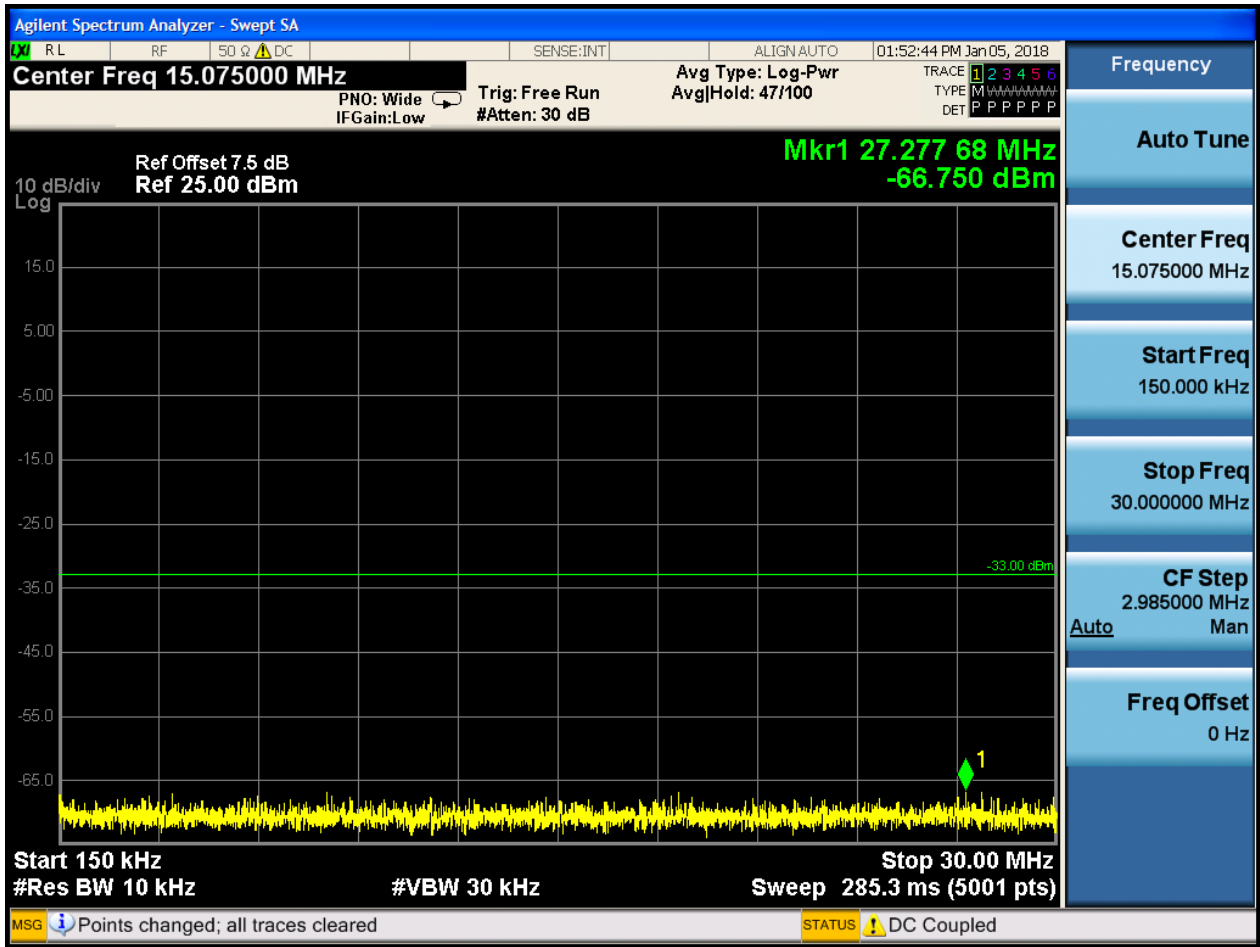


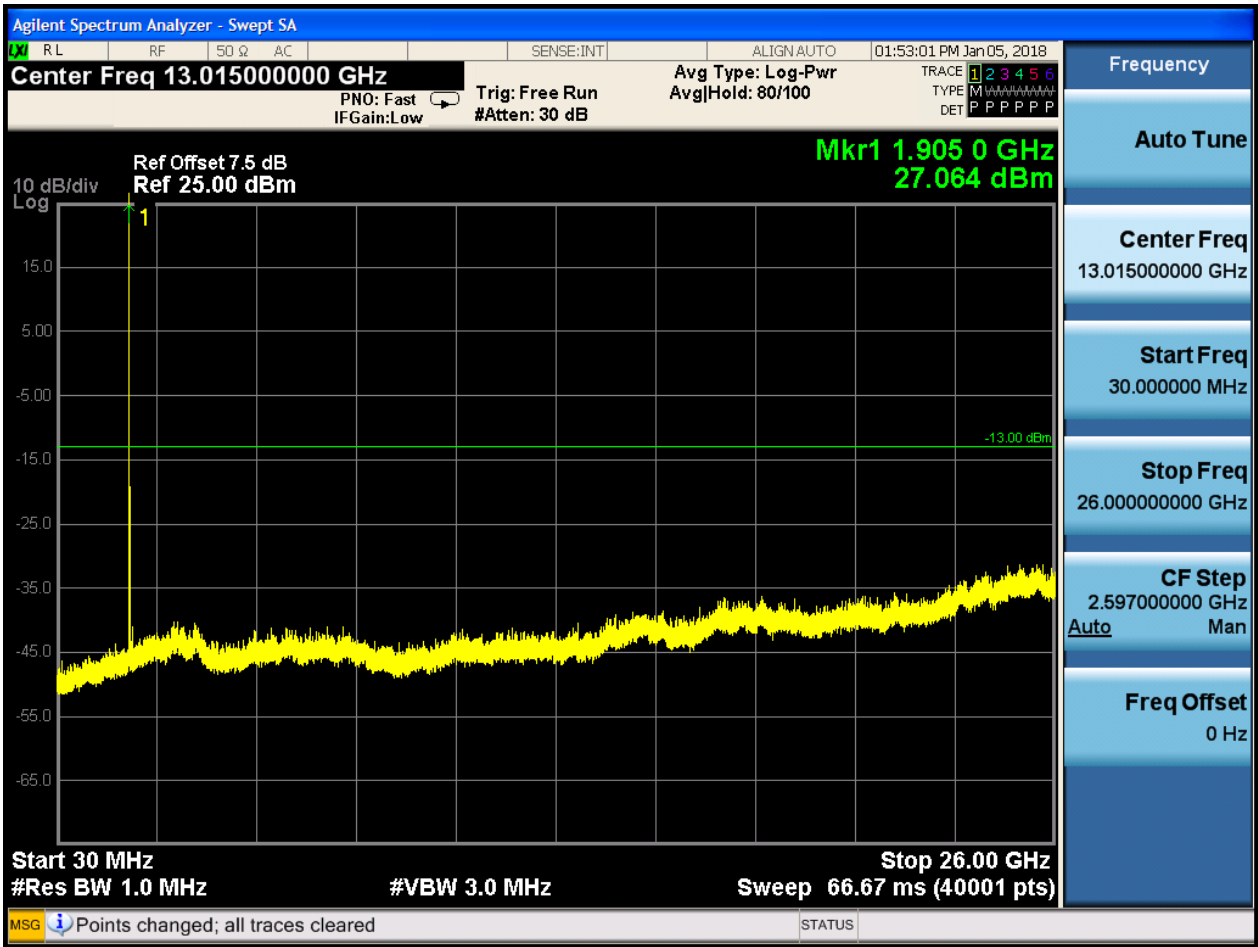


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





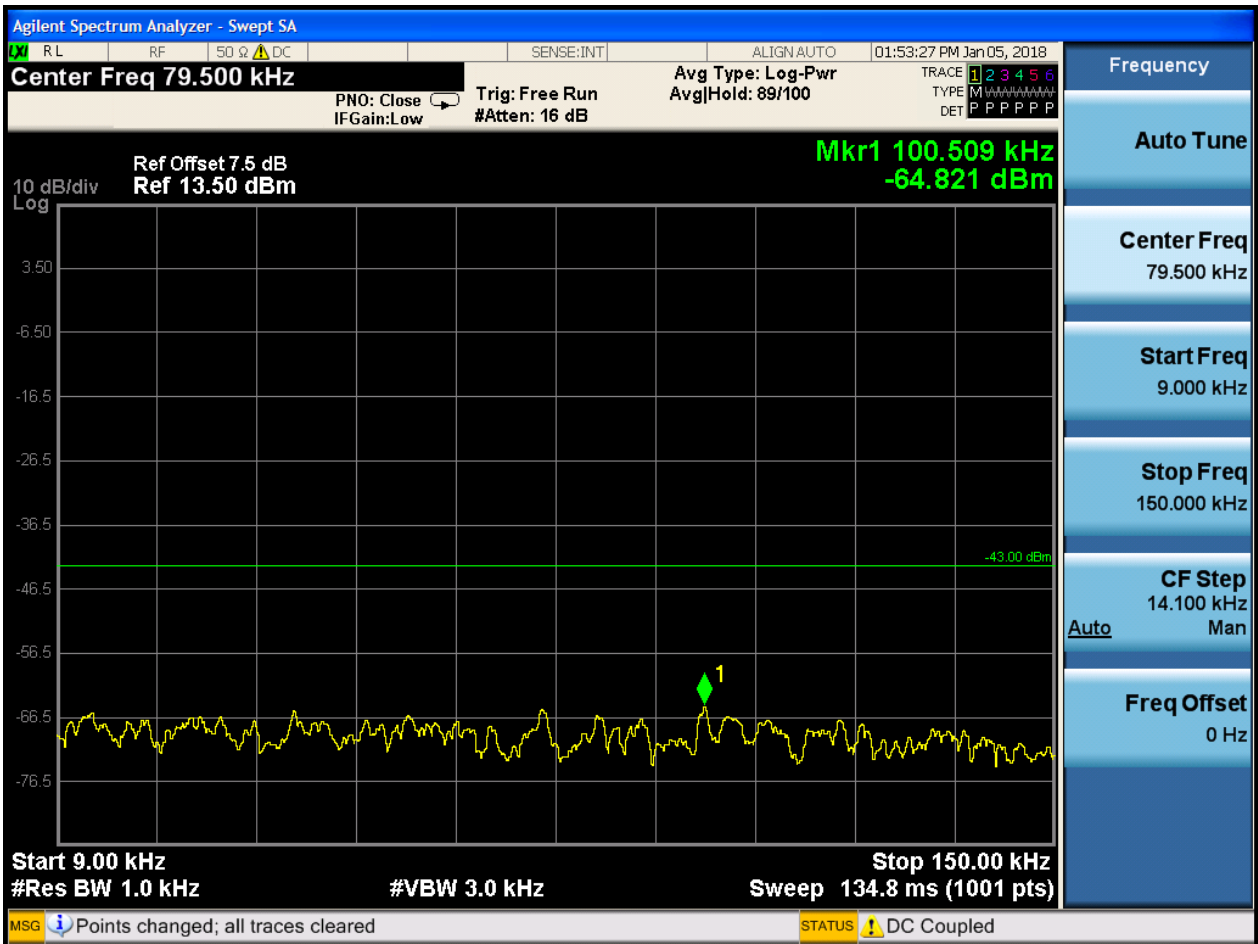


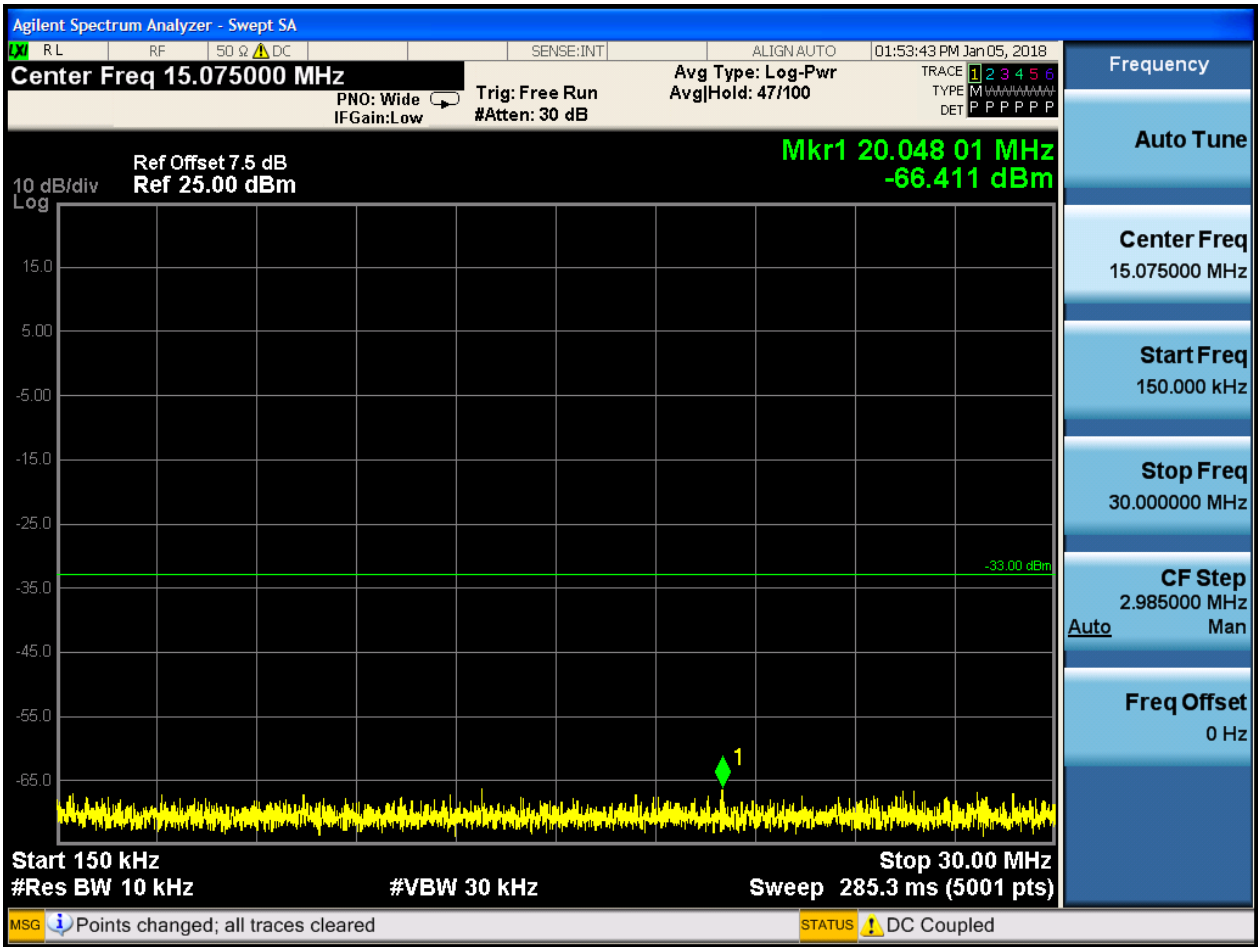


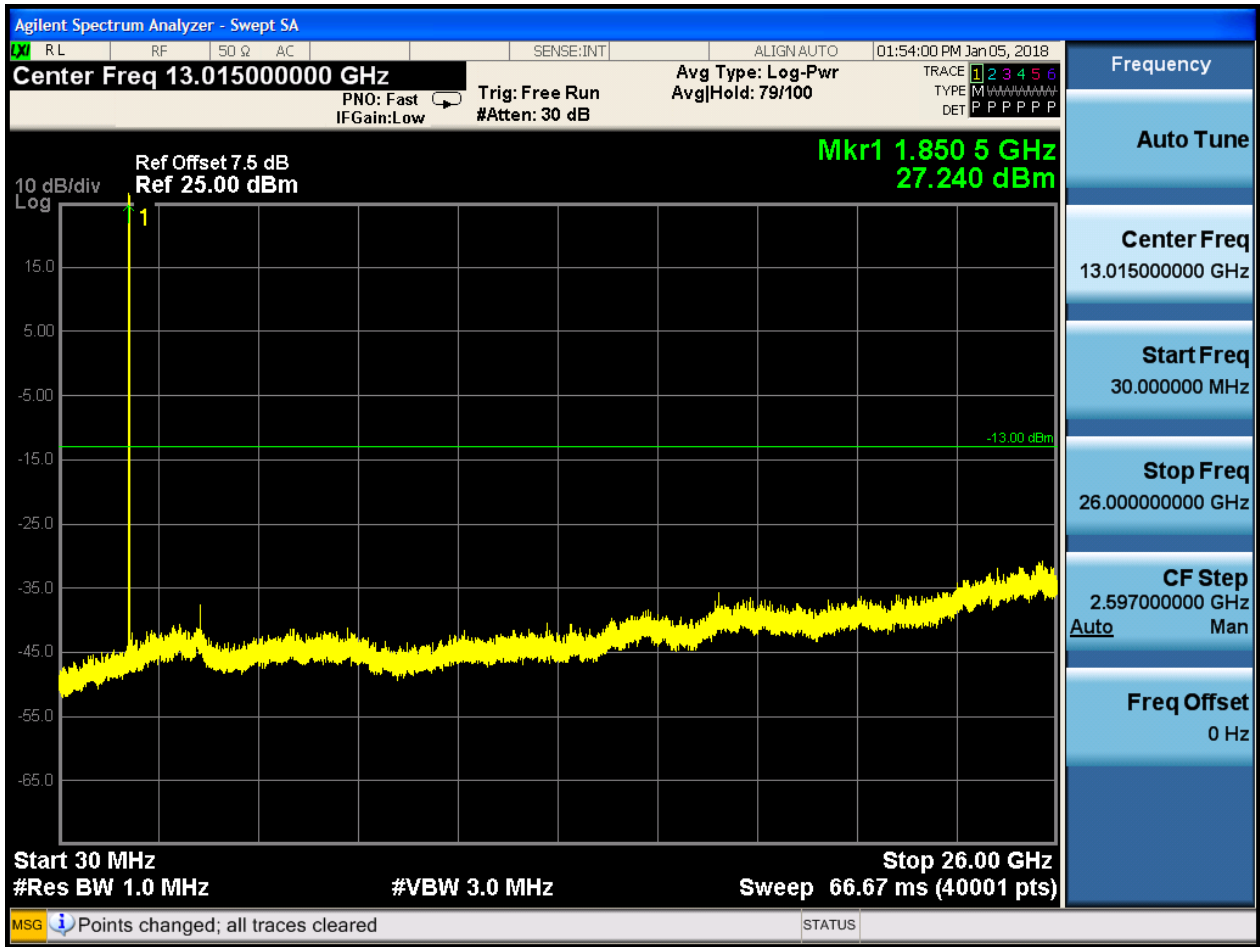
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



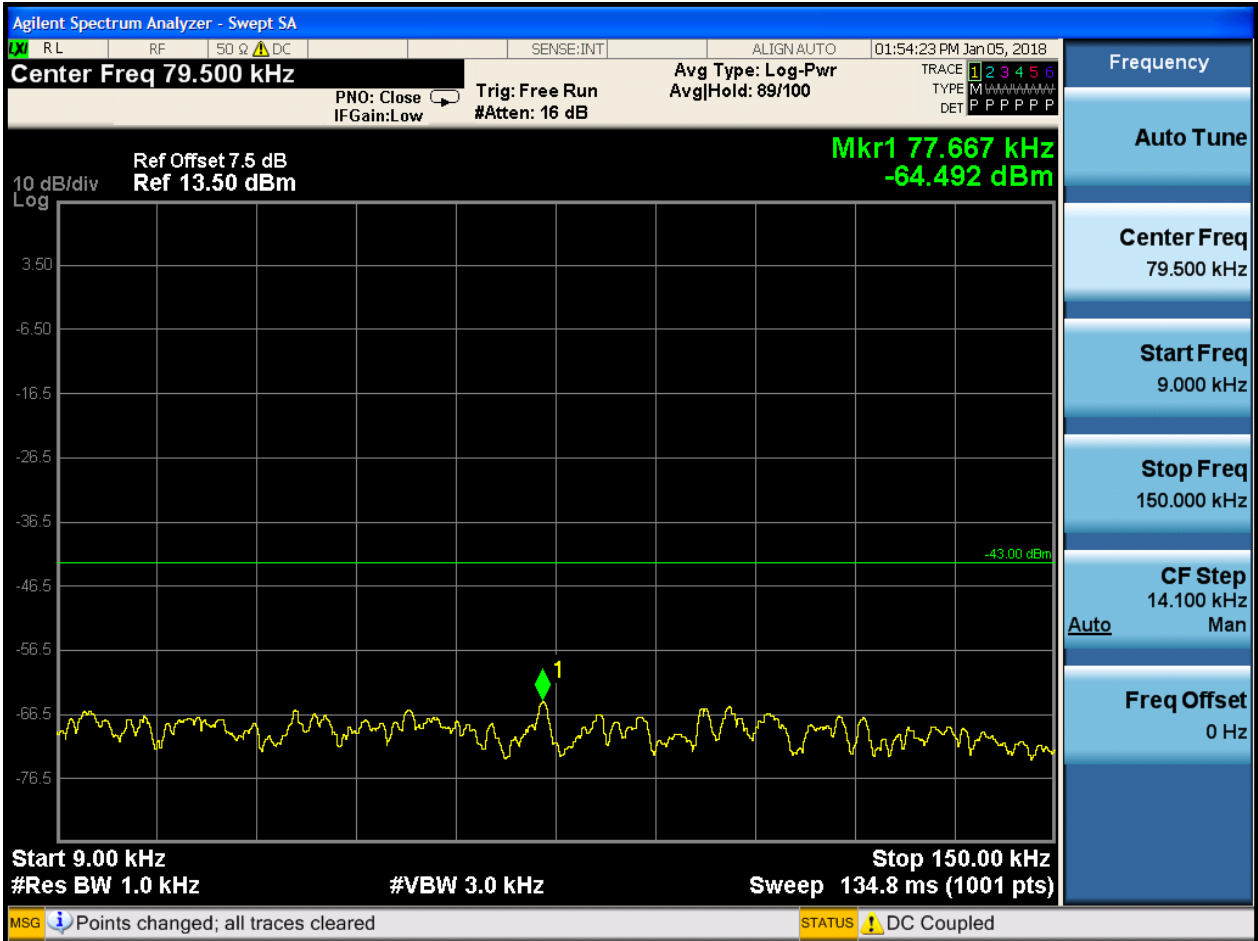


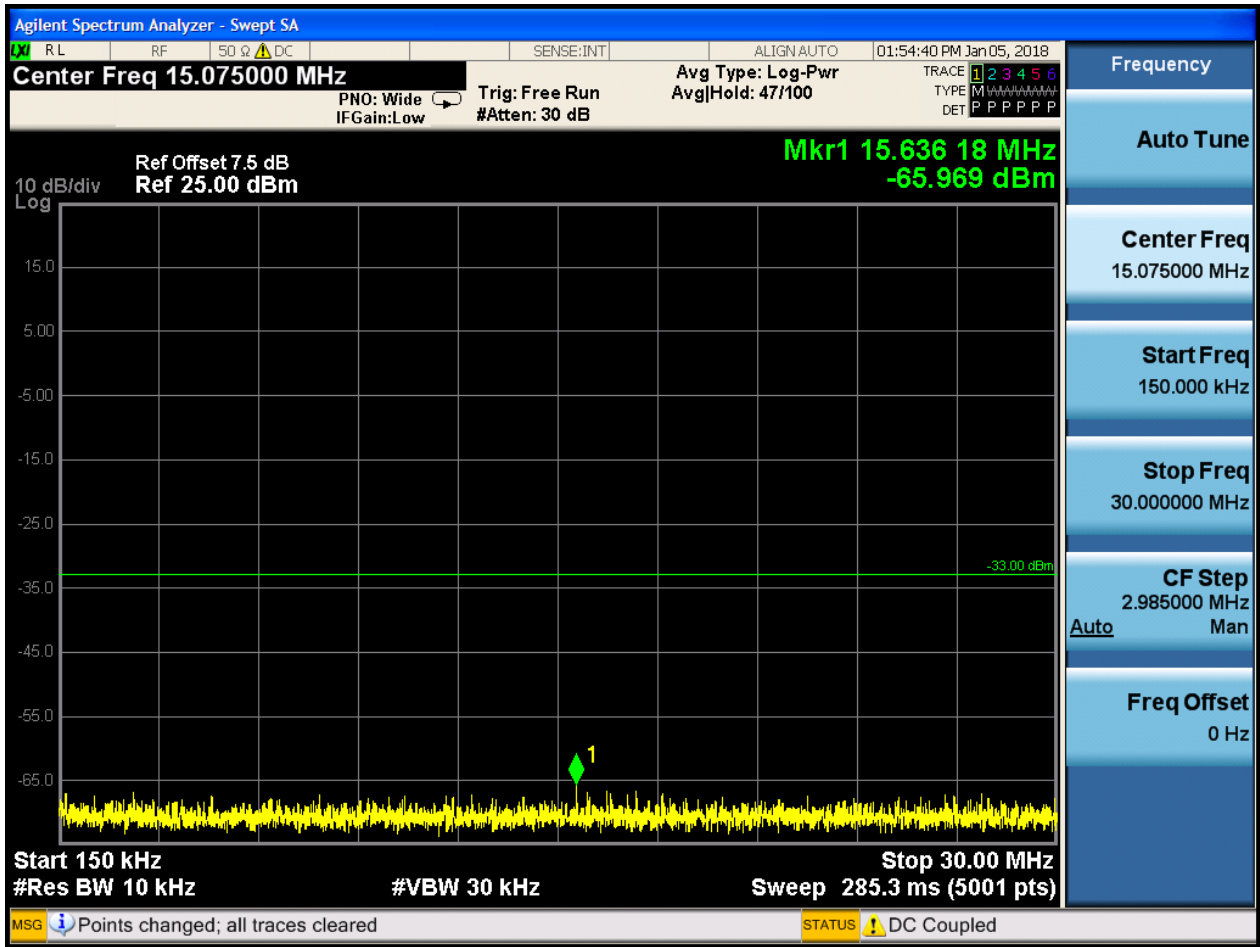


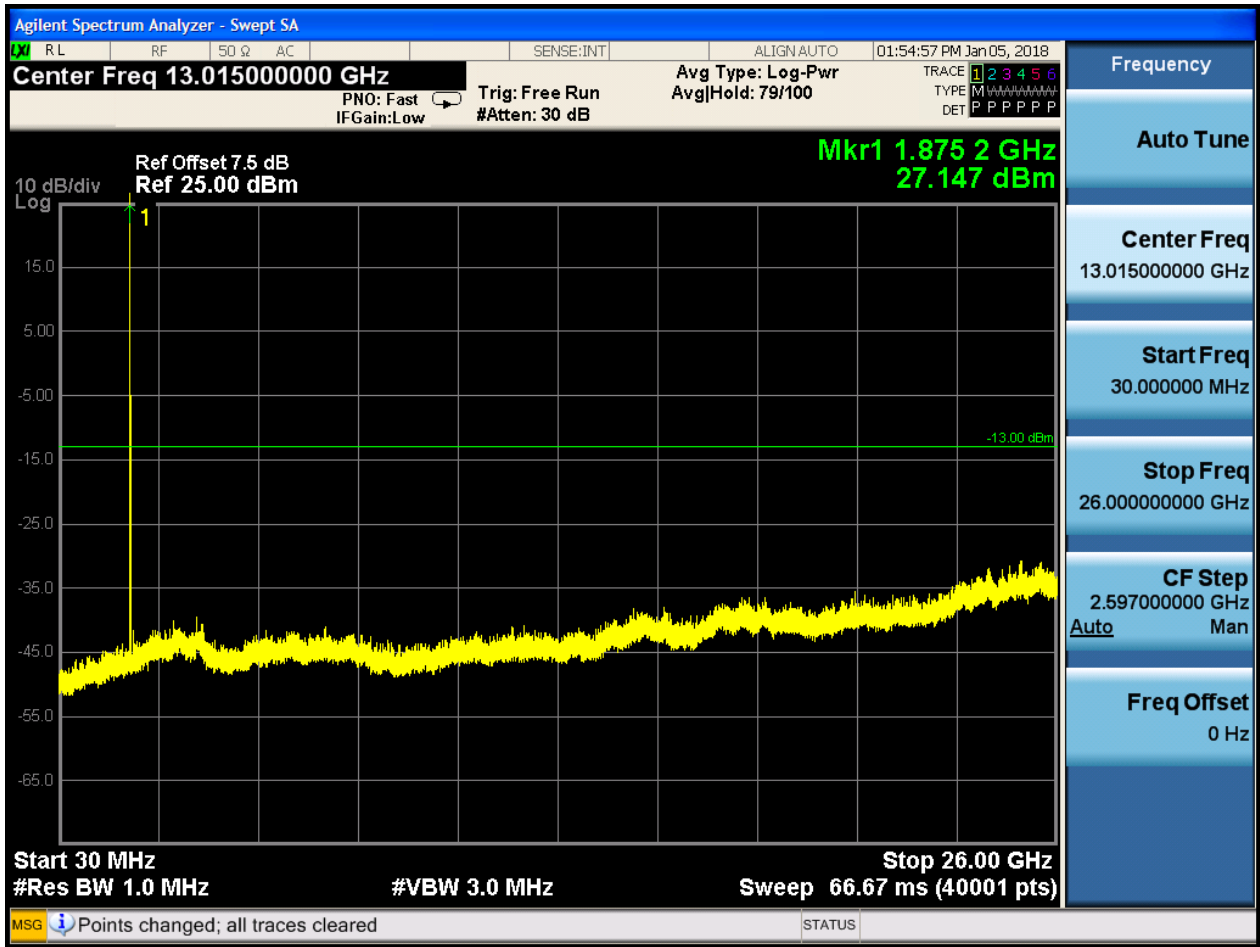


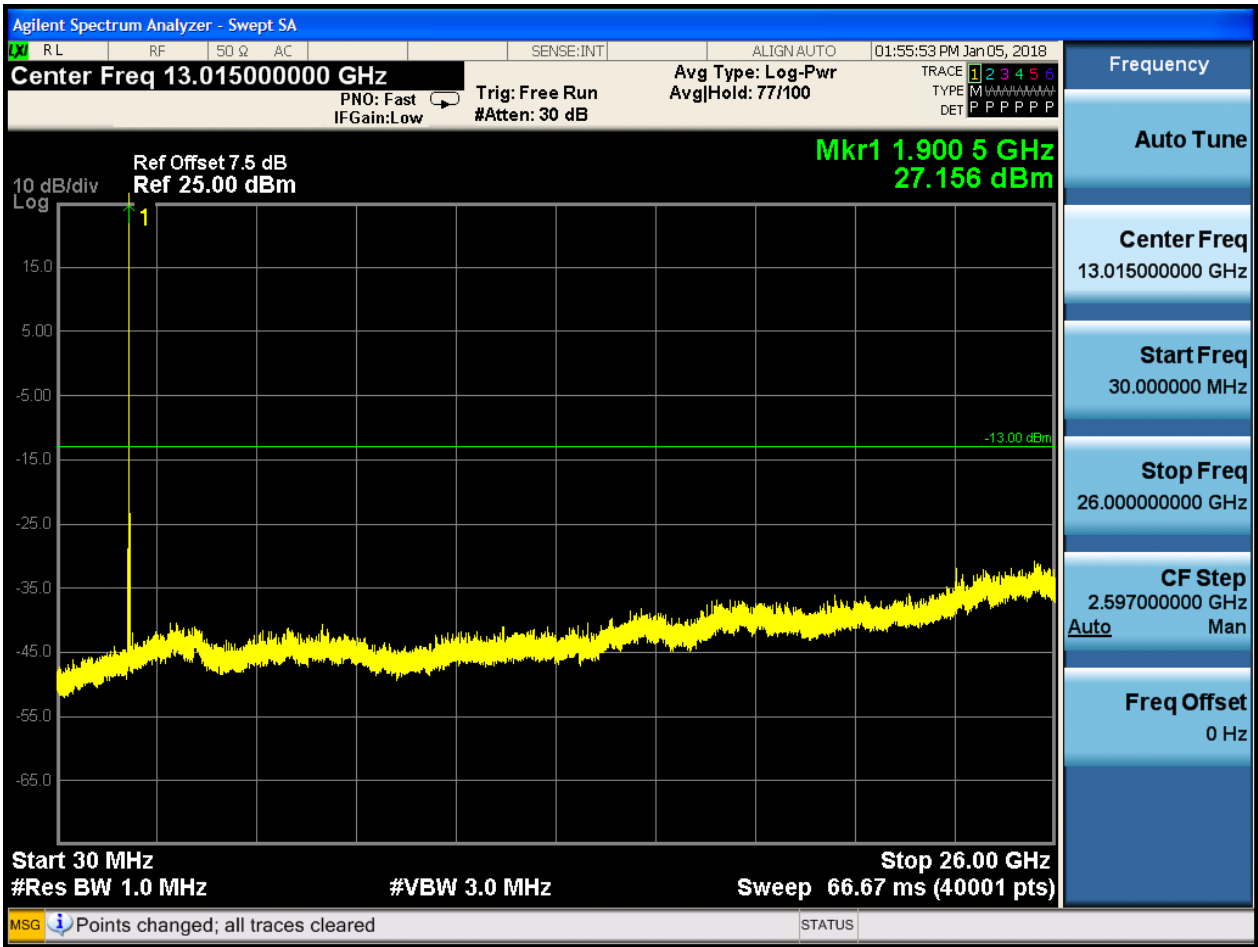
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0







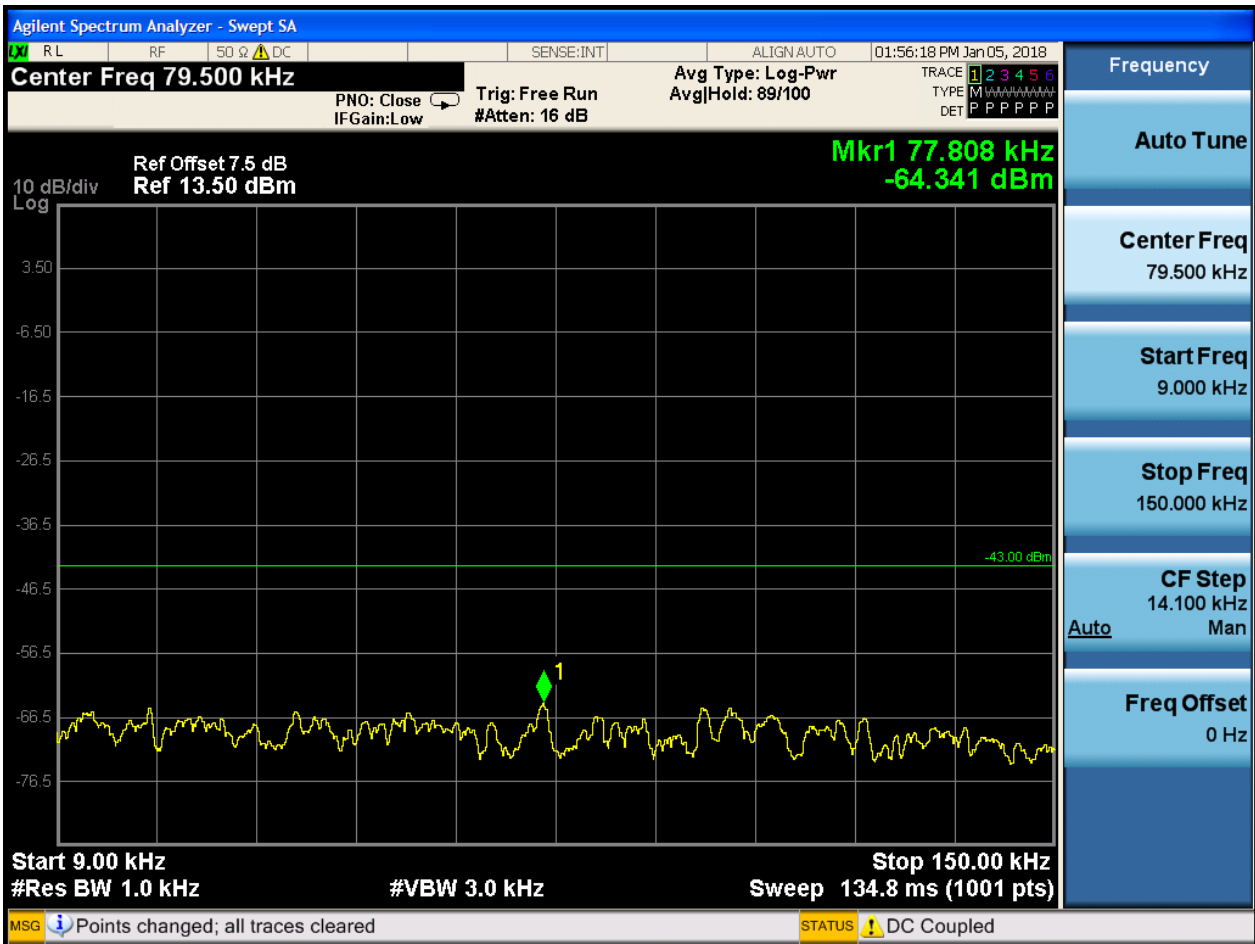


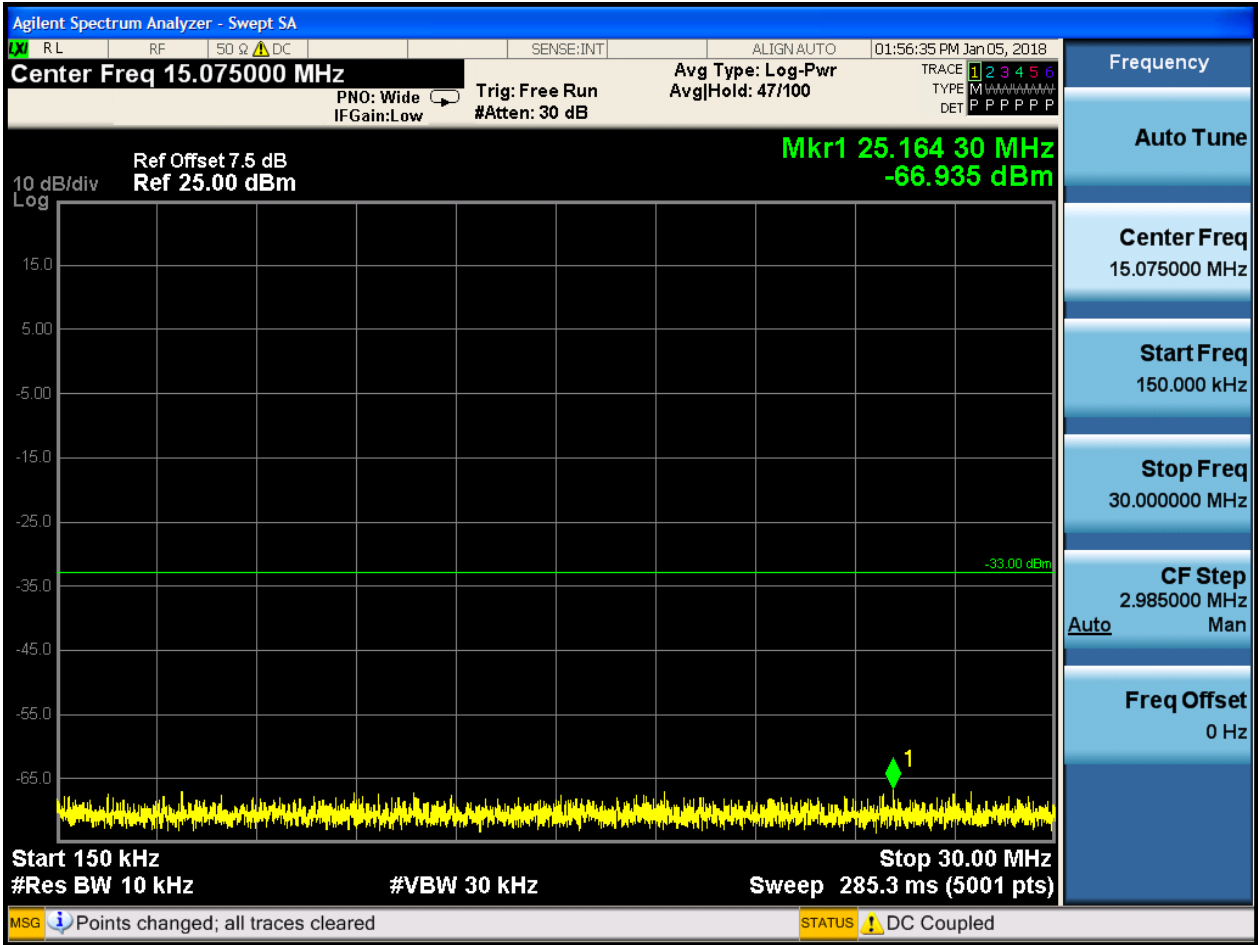


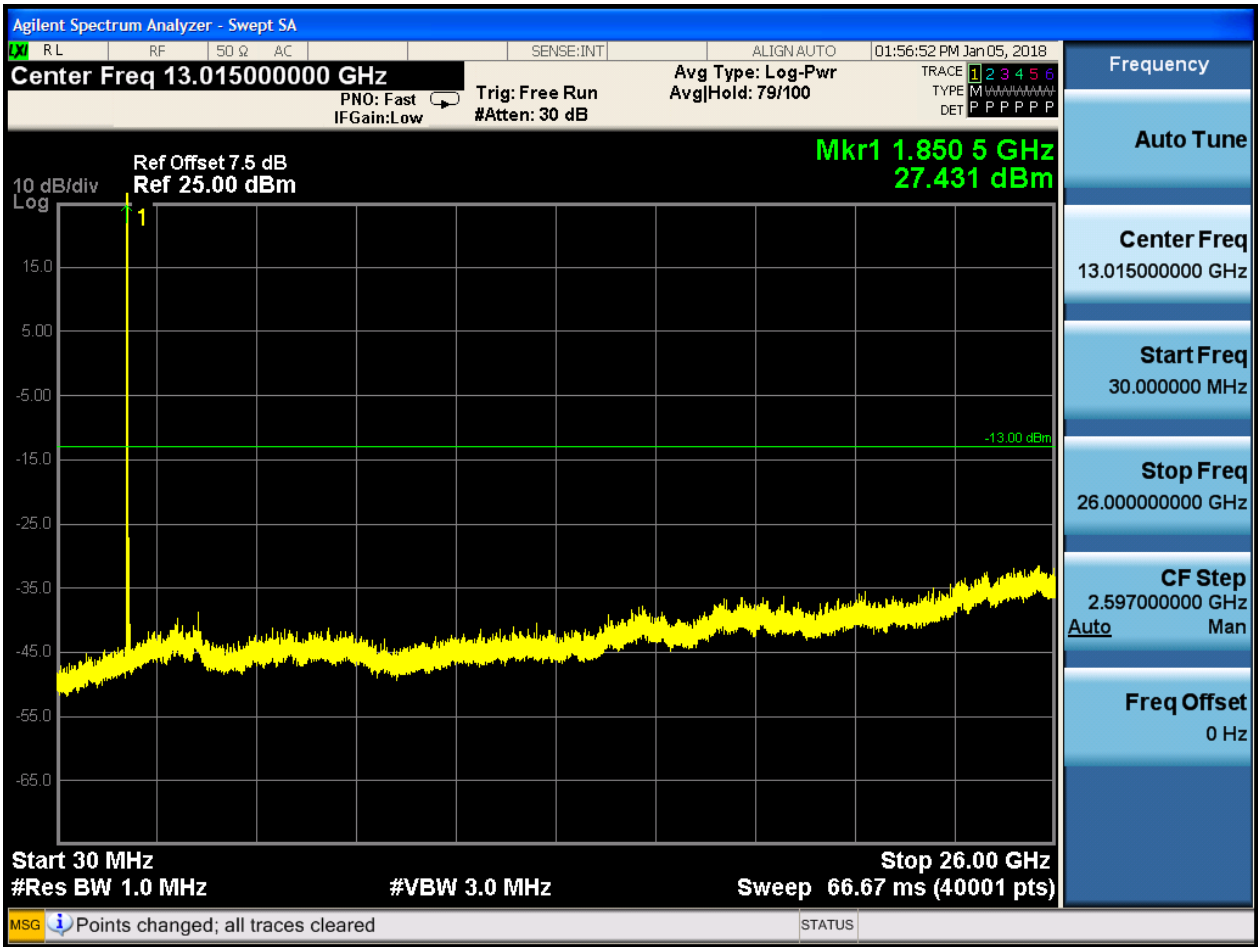
6.1.1.2.5 Test Bandwidth = 15

6.1.1.2.5.1 Test Channel = LCH

6.1.1.2.5.1.1 Test RB = RB1#0



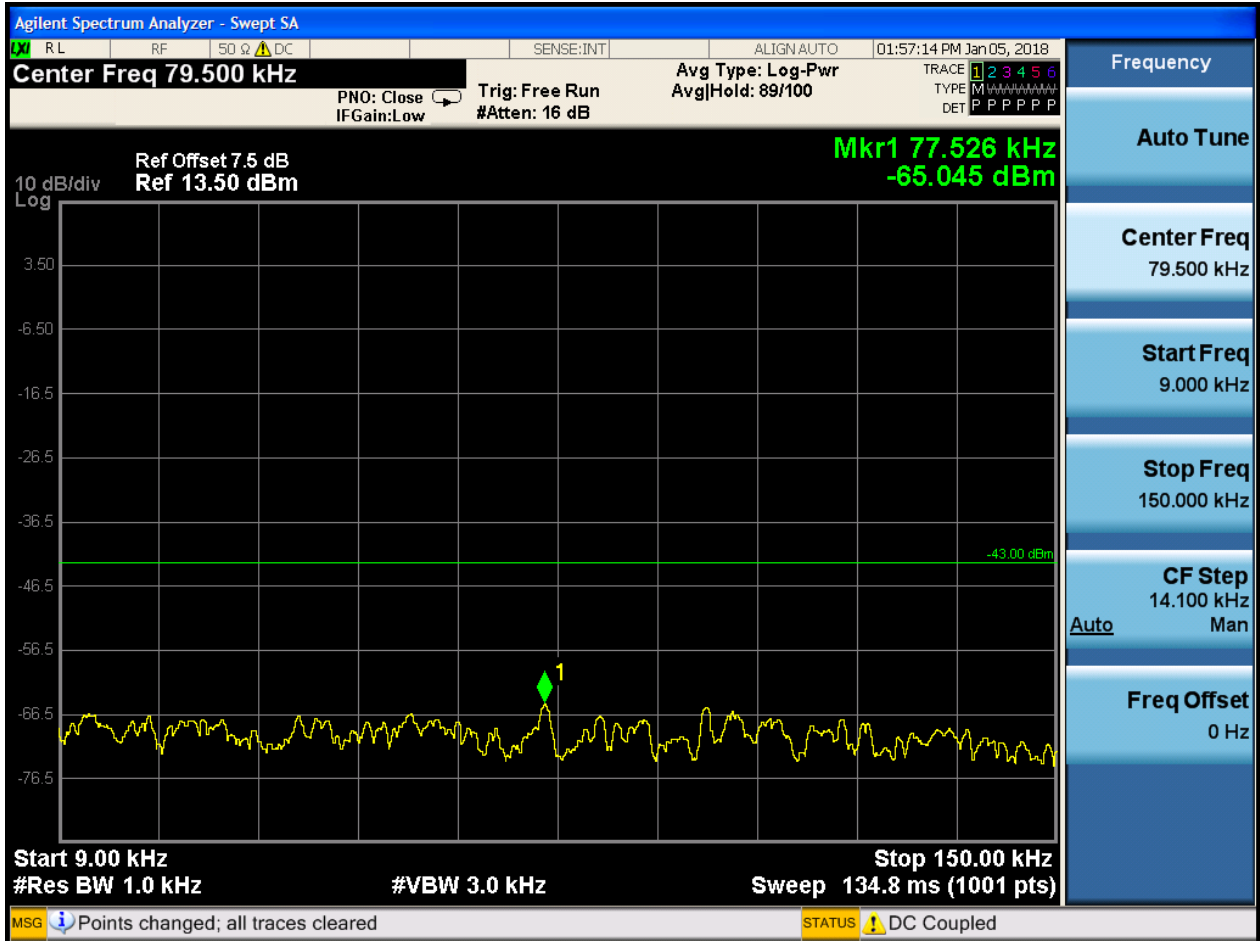


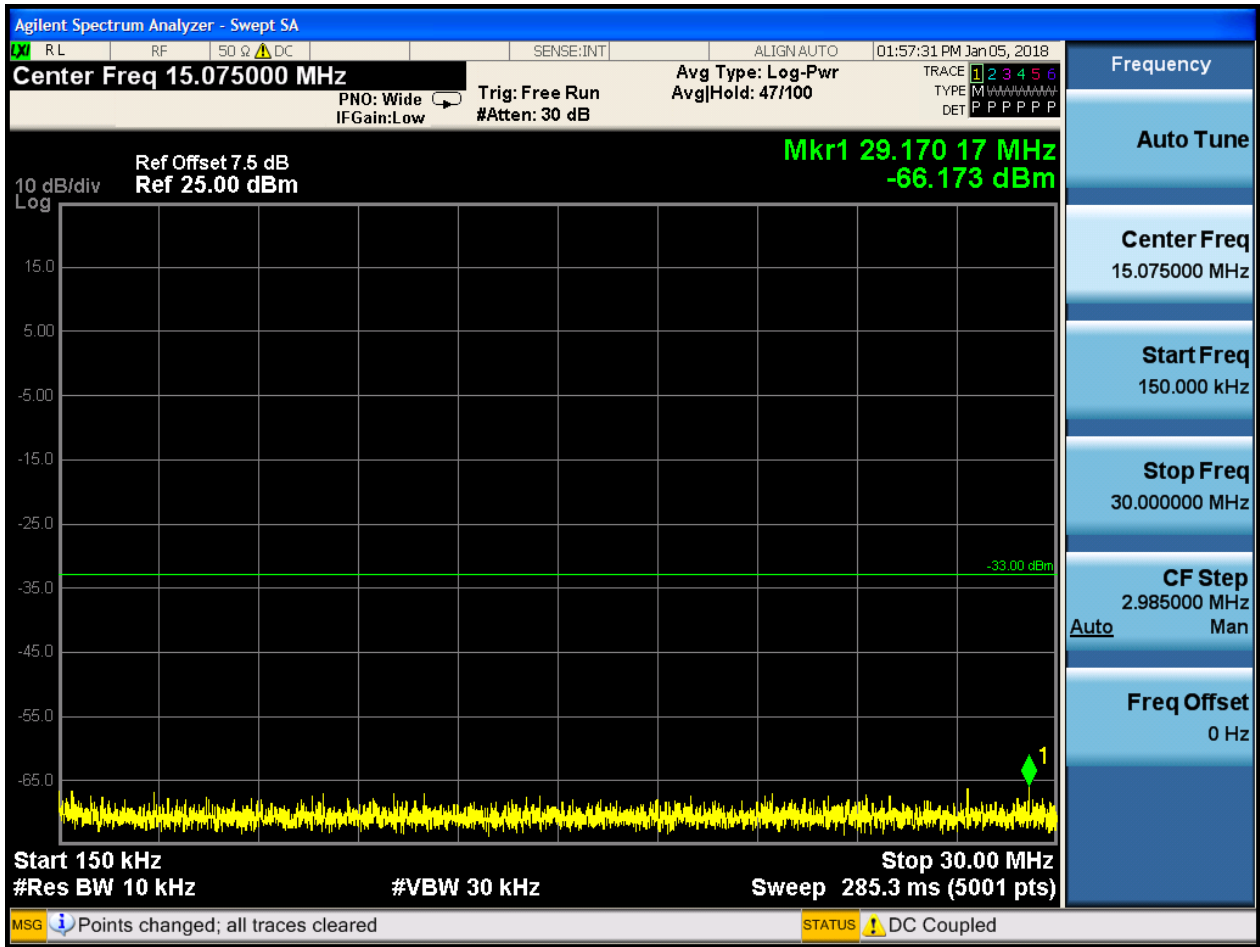


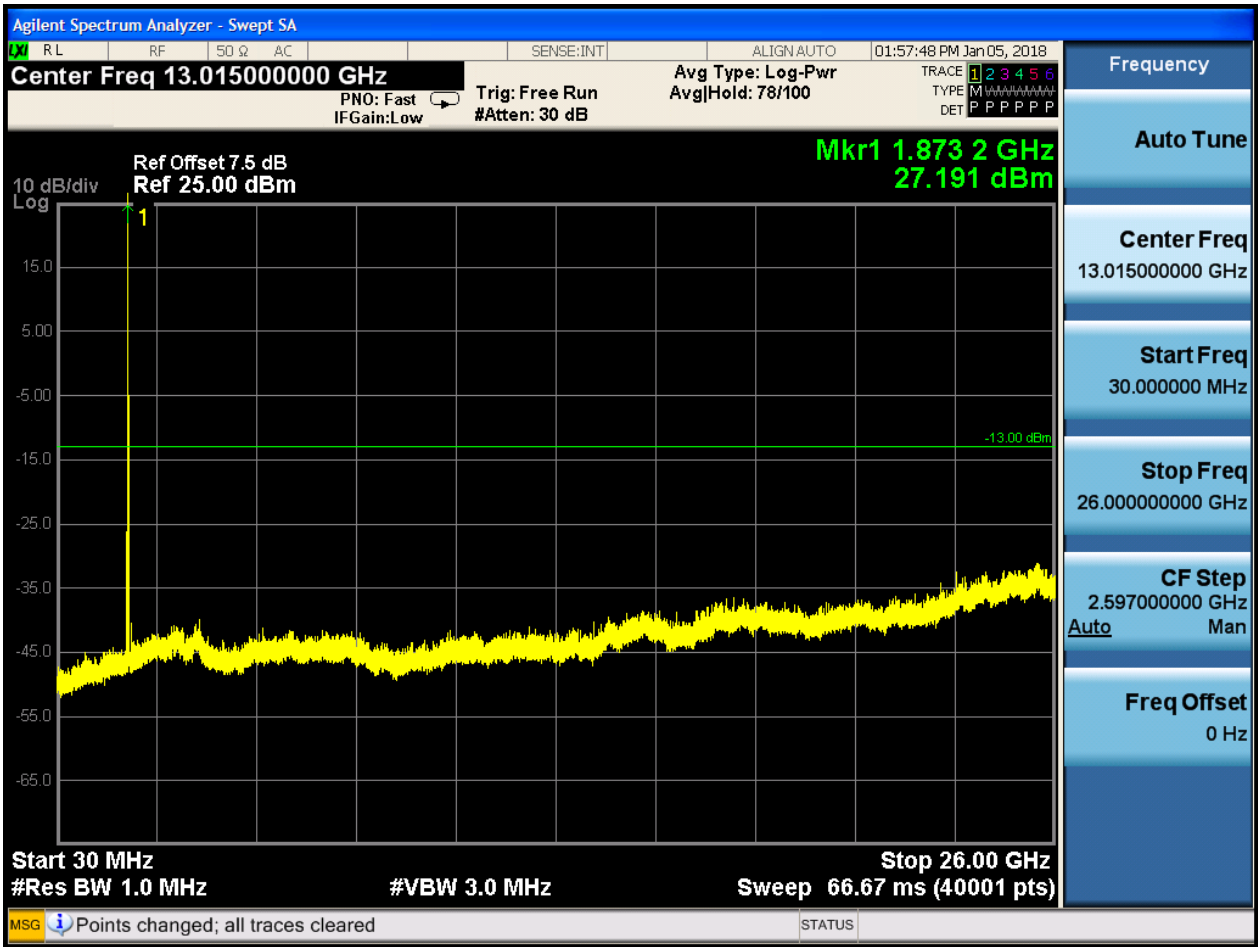


6.1.1.2.5.2 Test Channel = MCH

6.1.1.2.5.2.1 Test RB = RB1#0



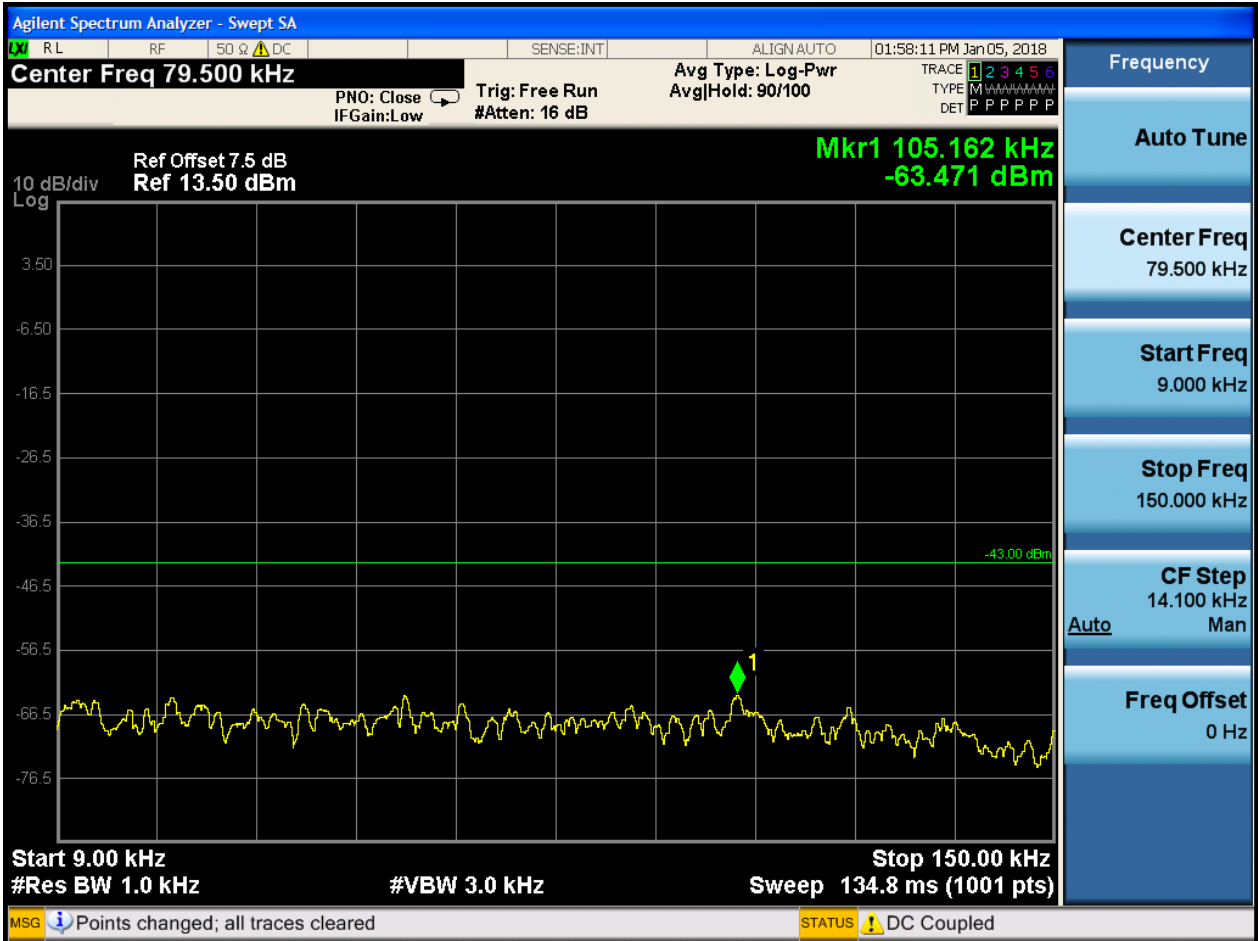


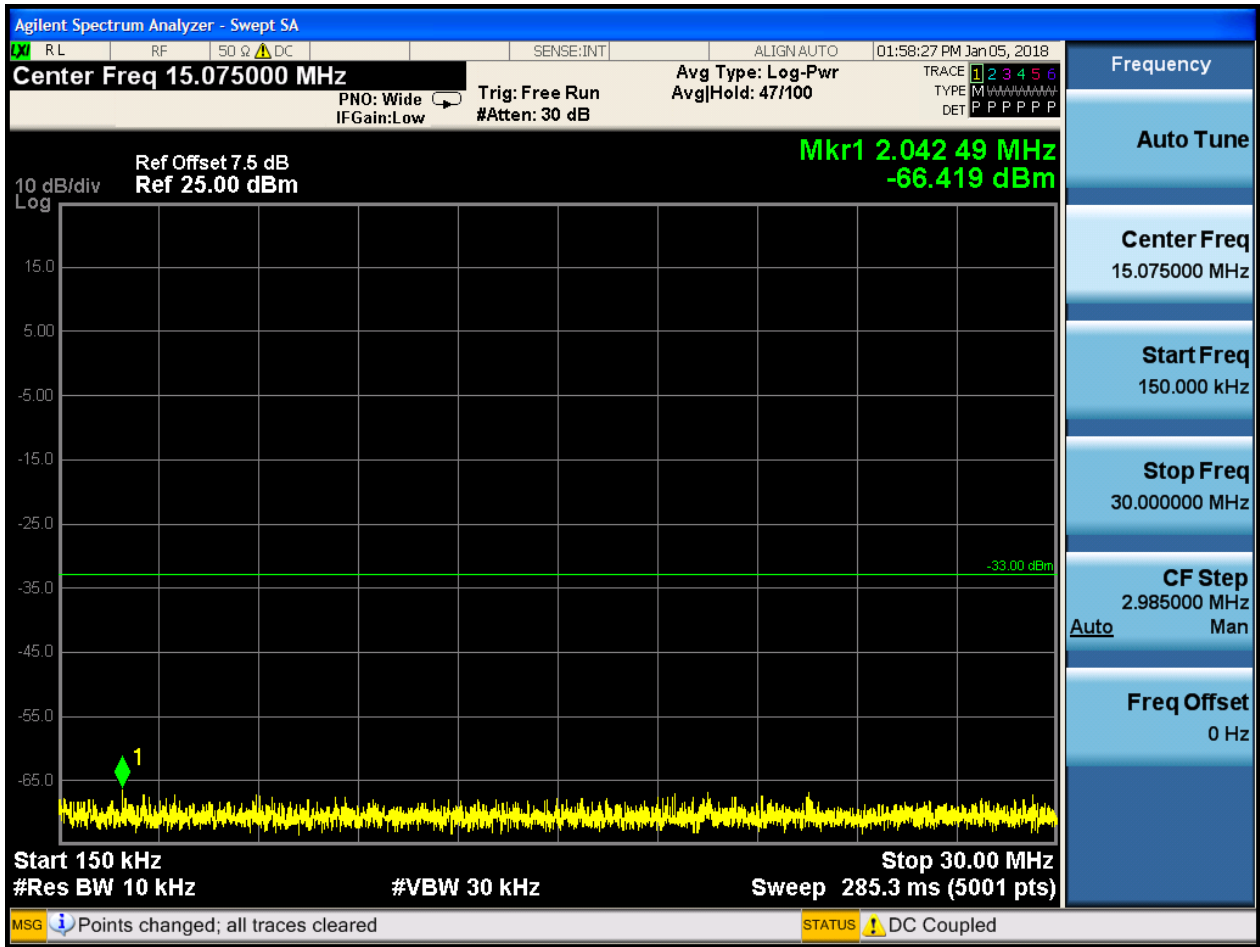


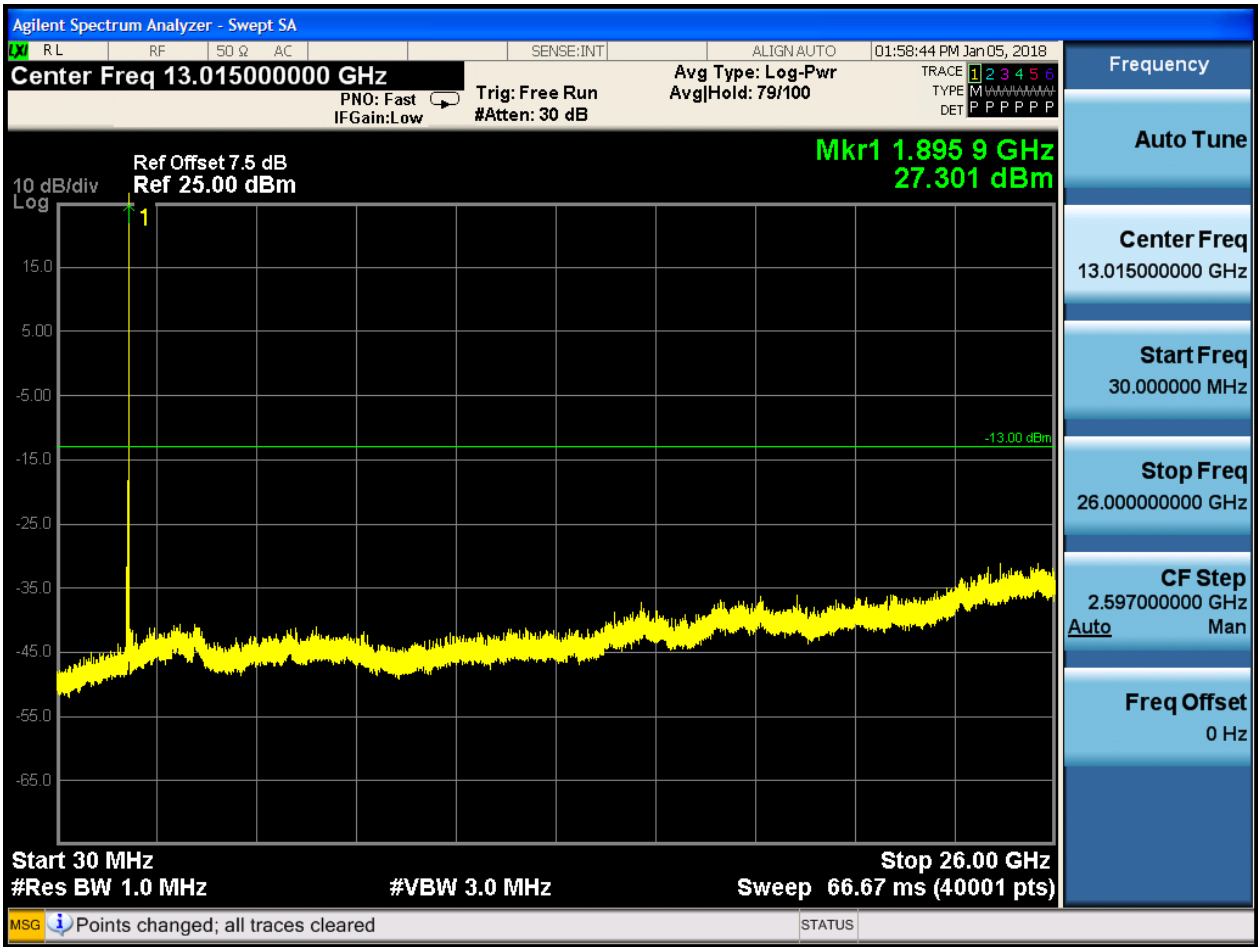


6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0





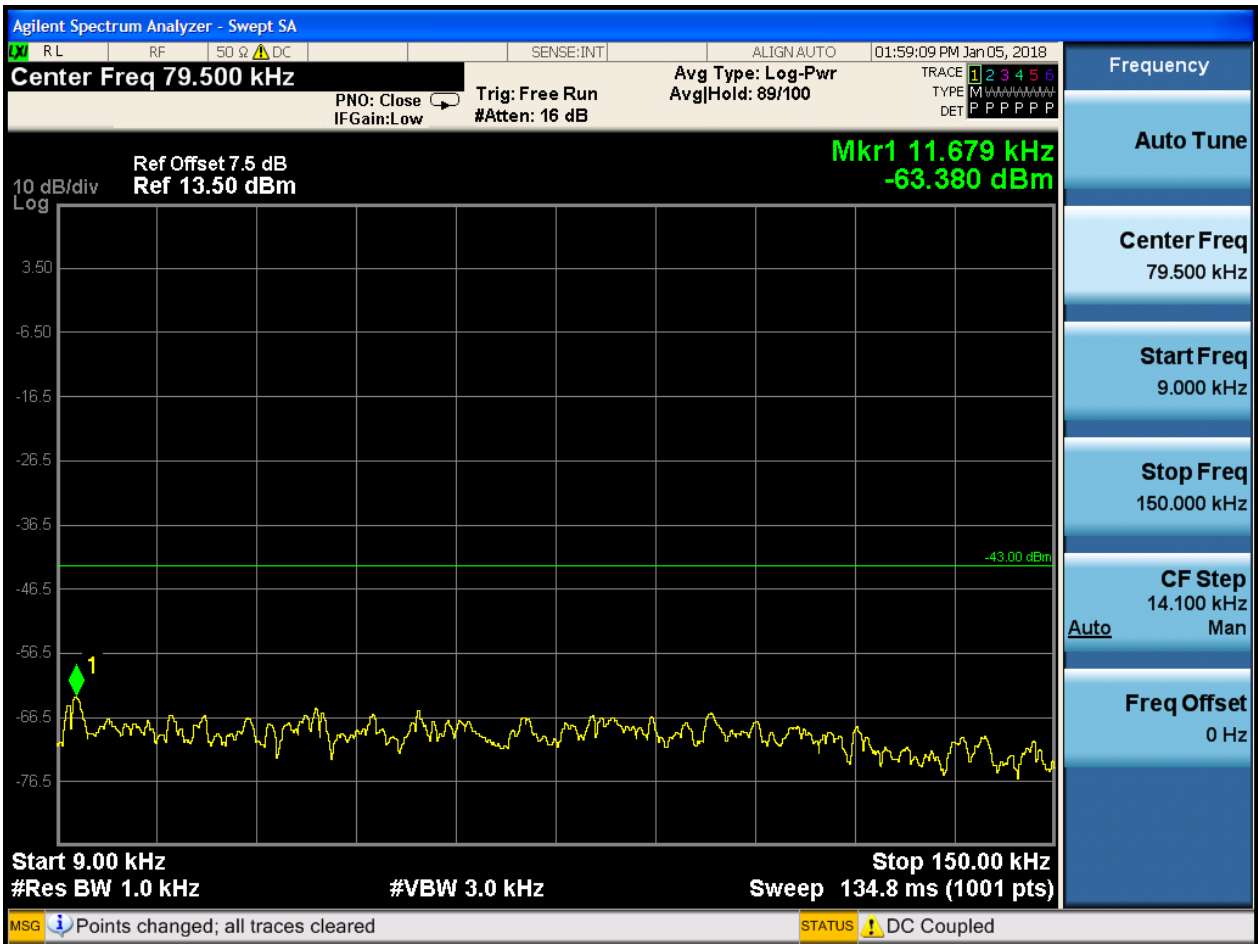


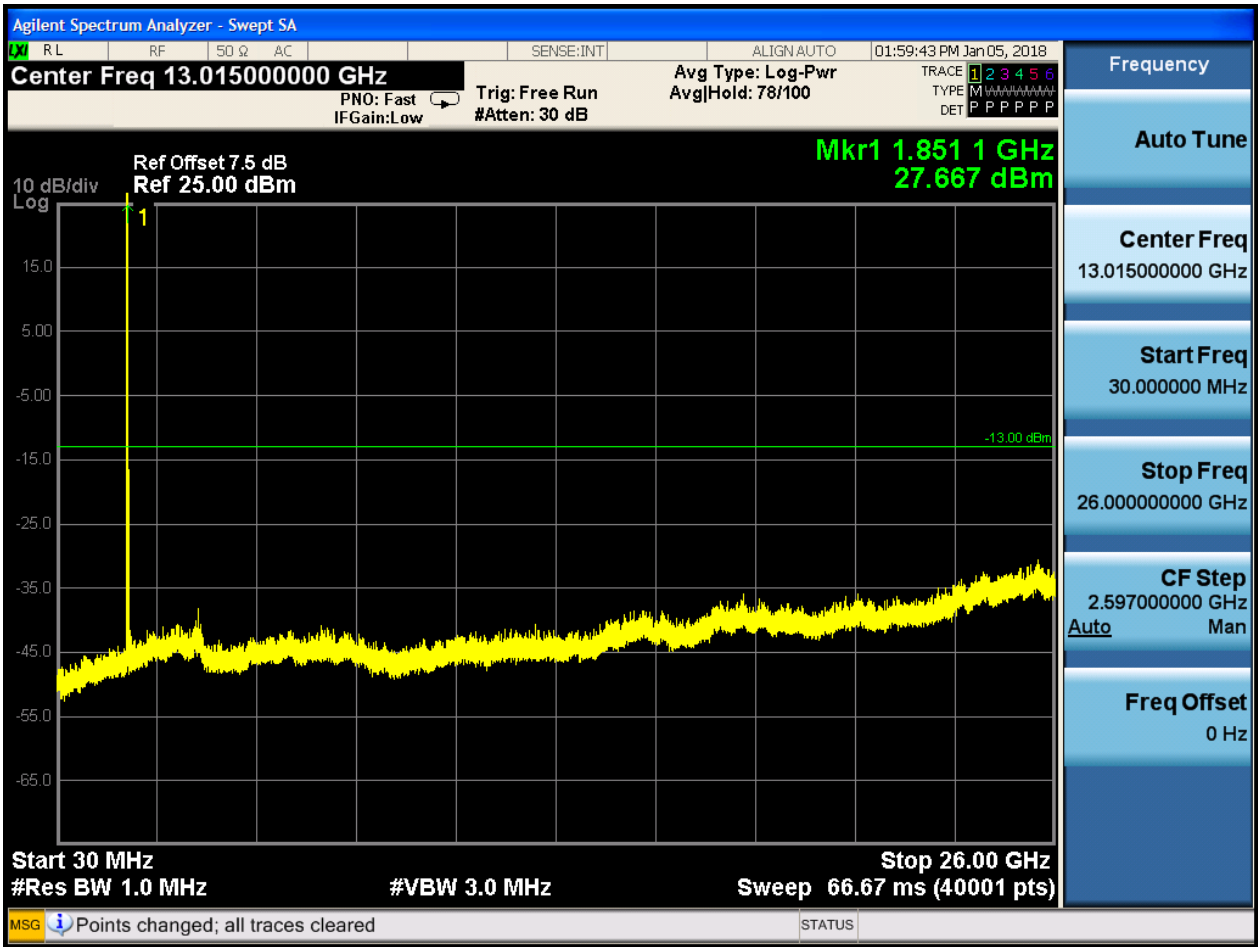


6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0

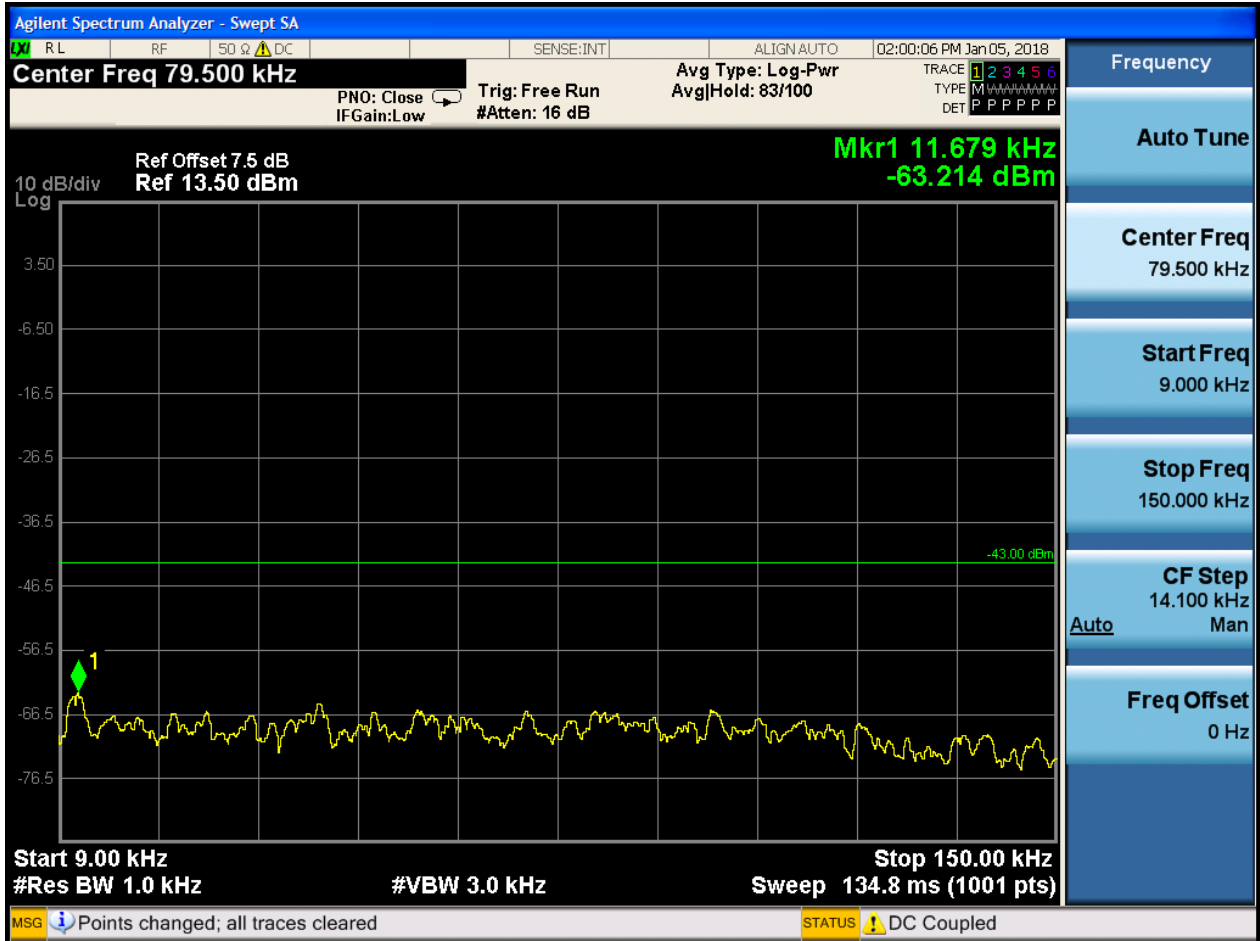


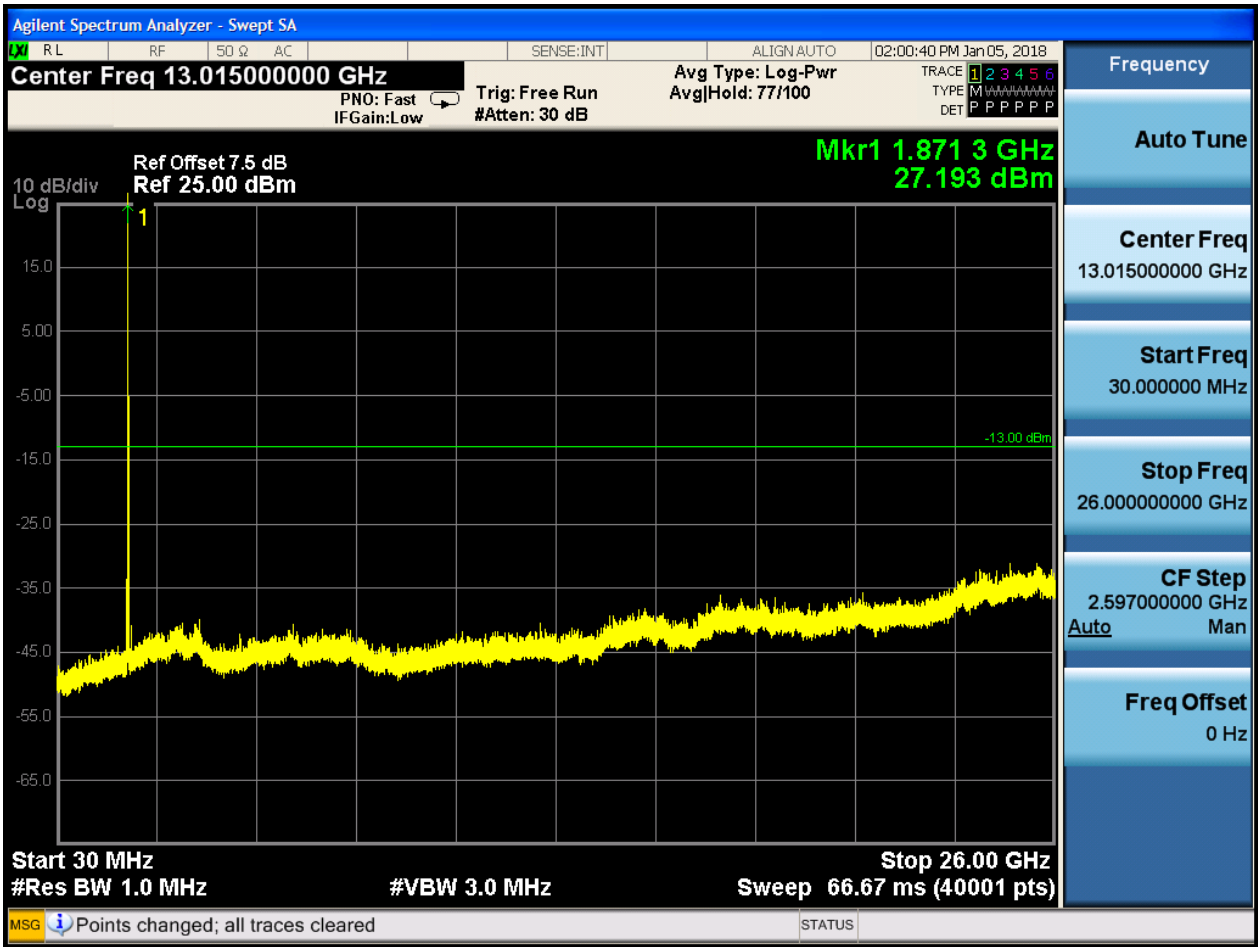




6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 Test RB = RB1#0

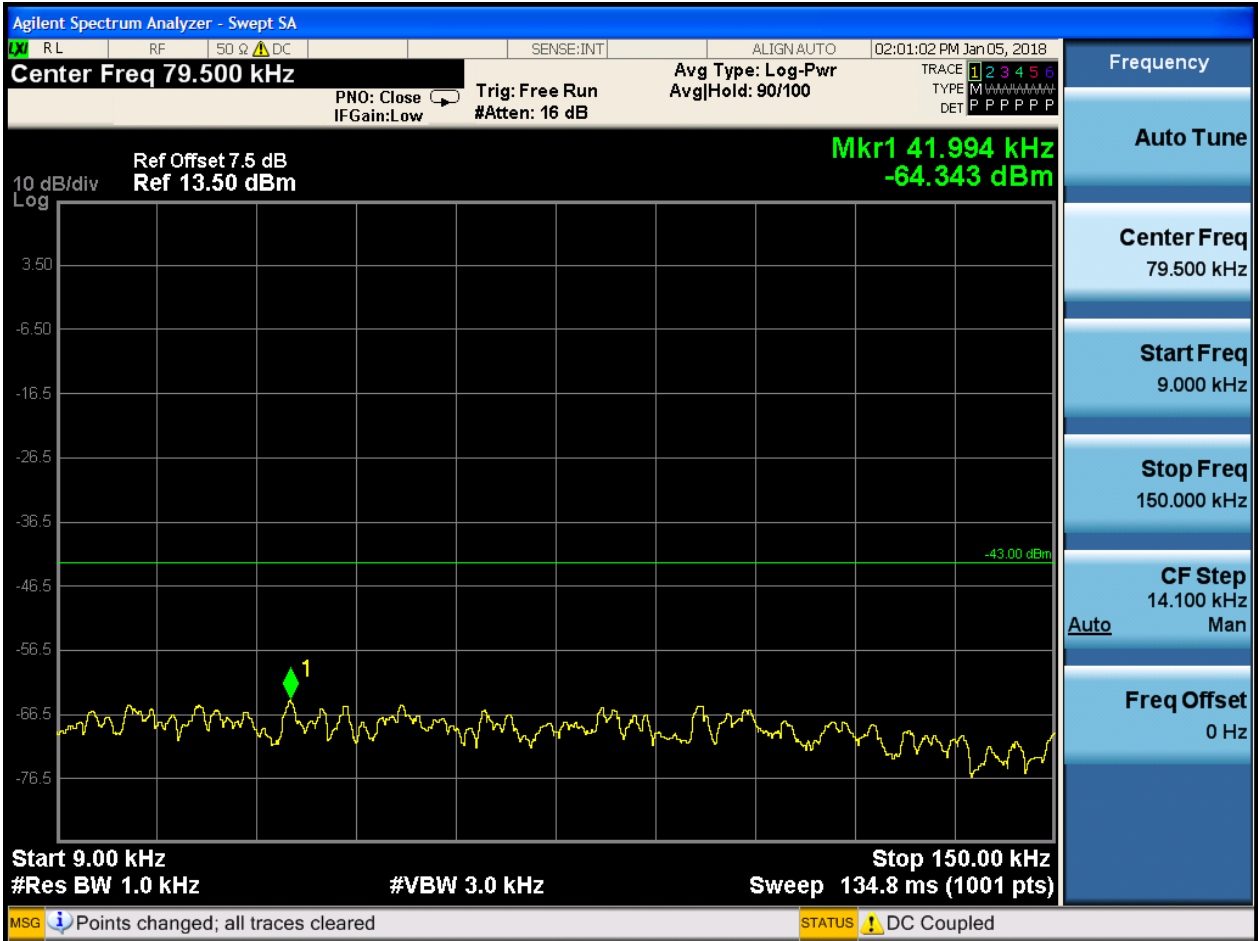


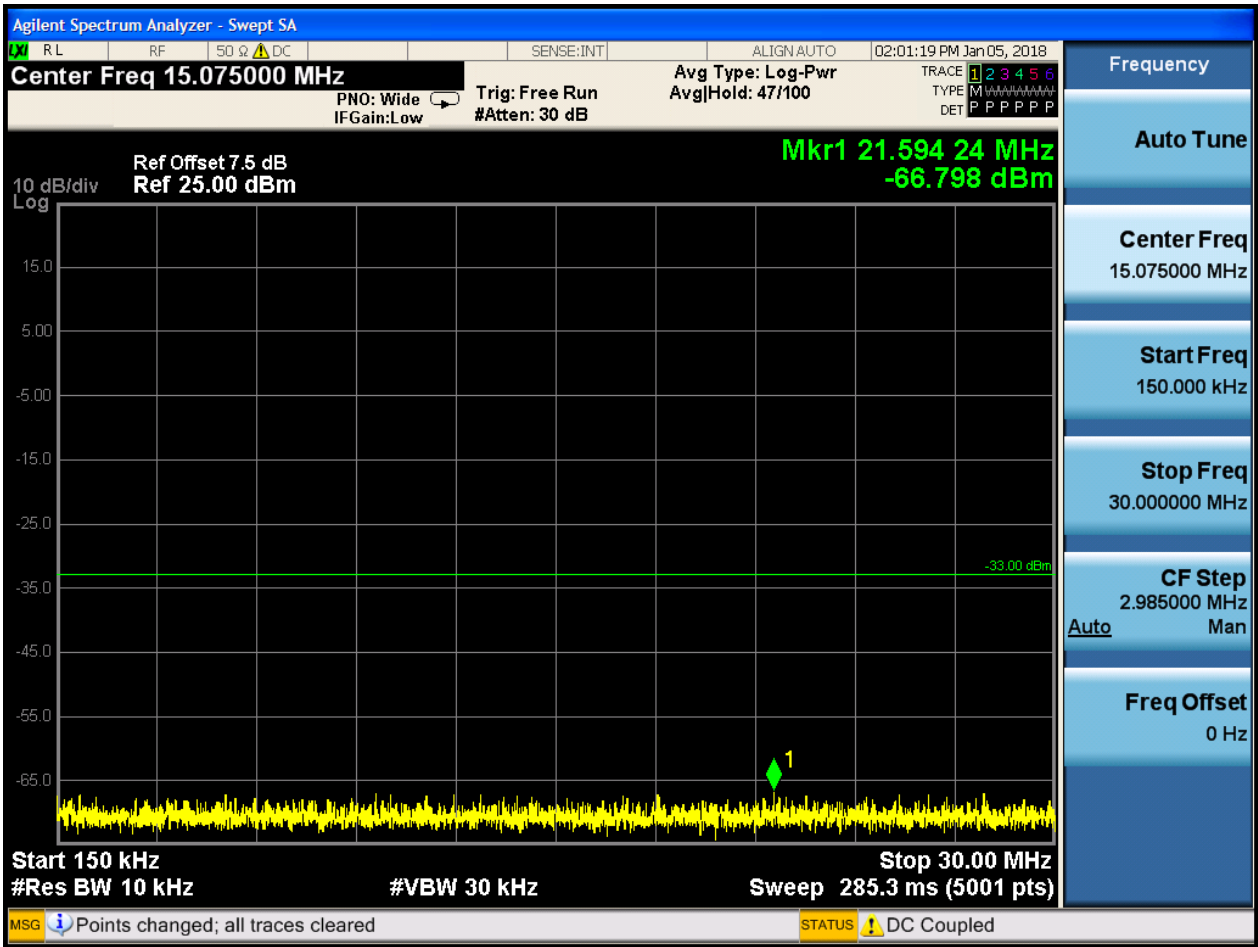


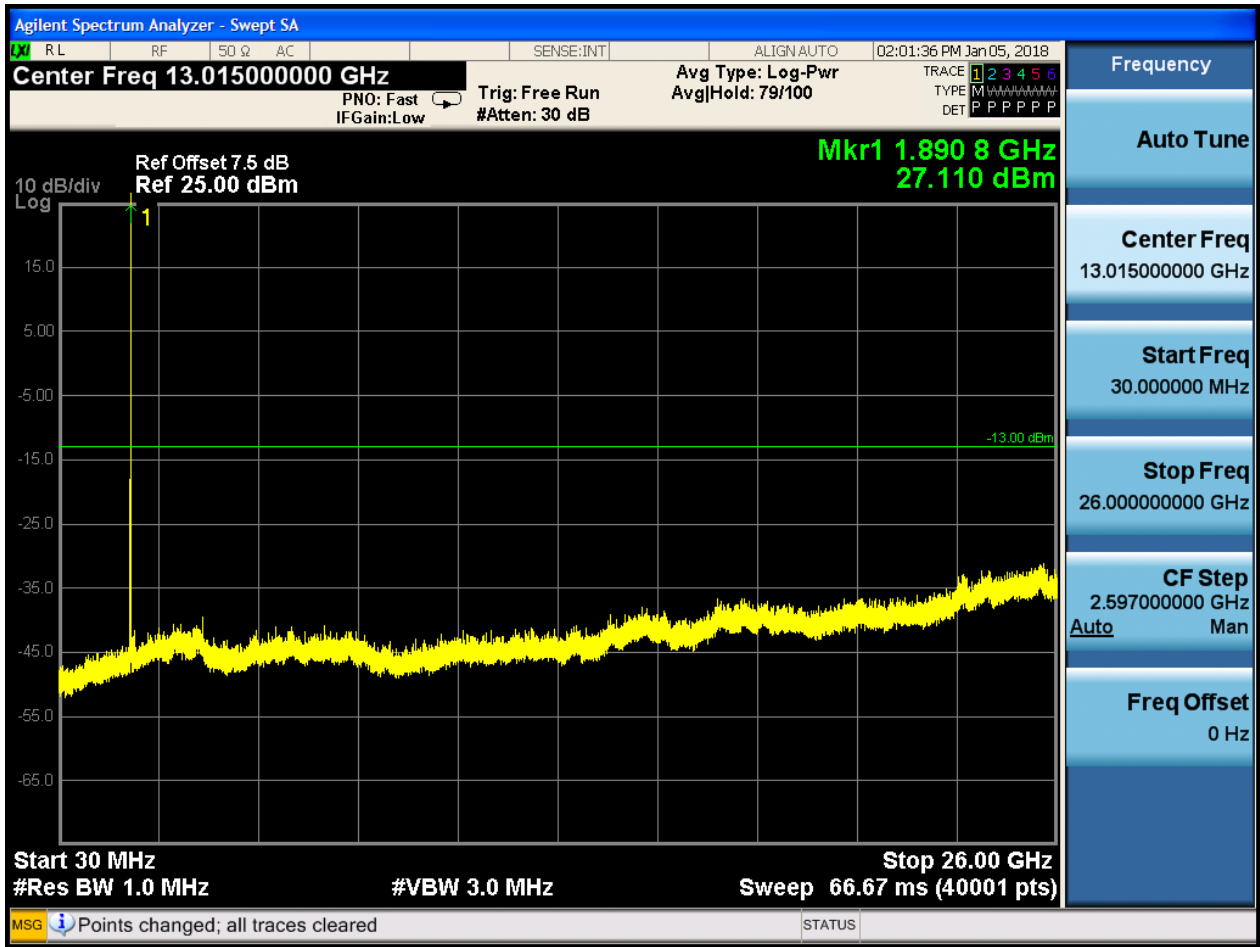


6.1.1.2.6.3 Test Channel = HCH

6.1.1.2.6.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9 kHz ~150 kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150 kHz ~30MHz, RBW = 9 kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

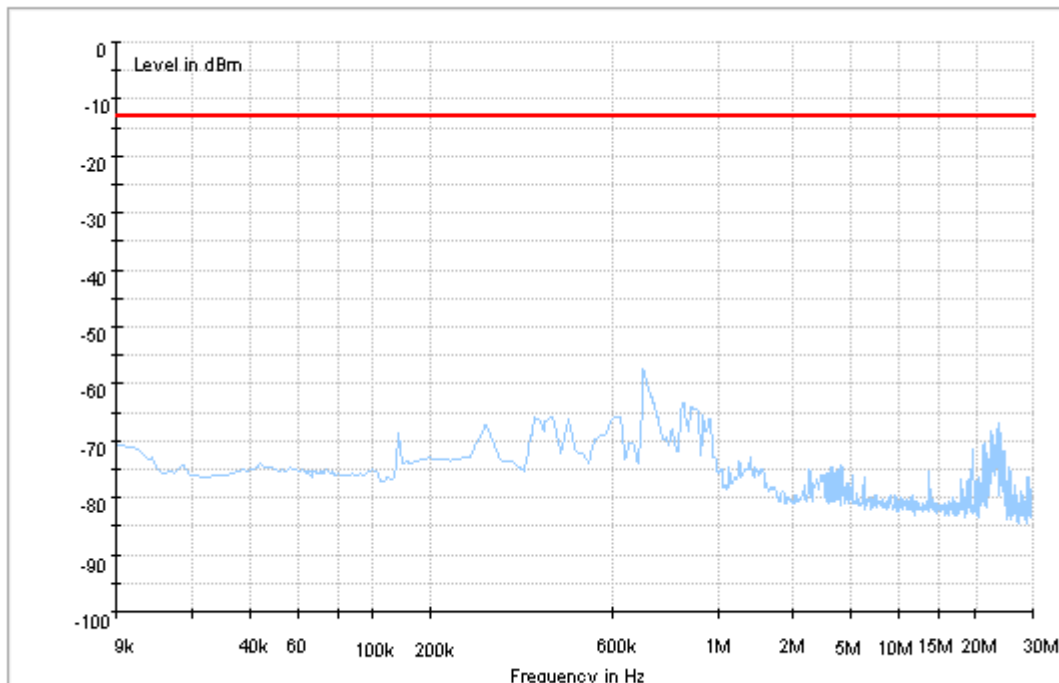
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

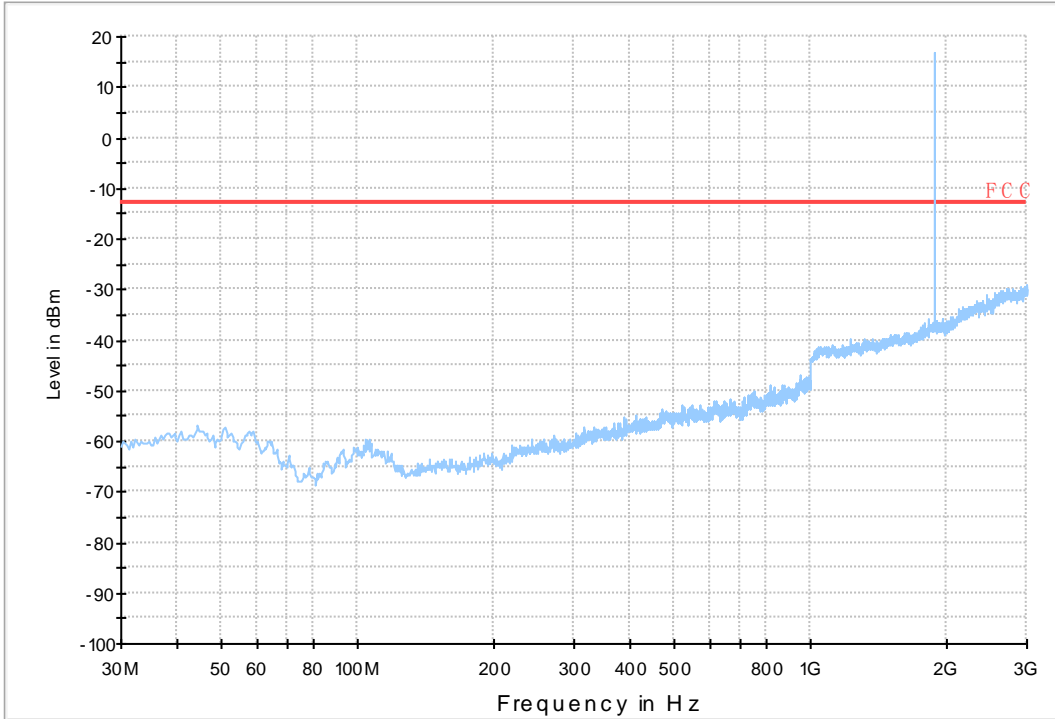
7.1 For LTE

7.1.1 Test Band = BAND2

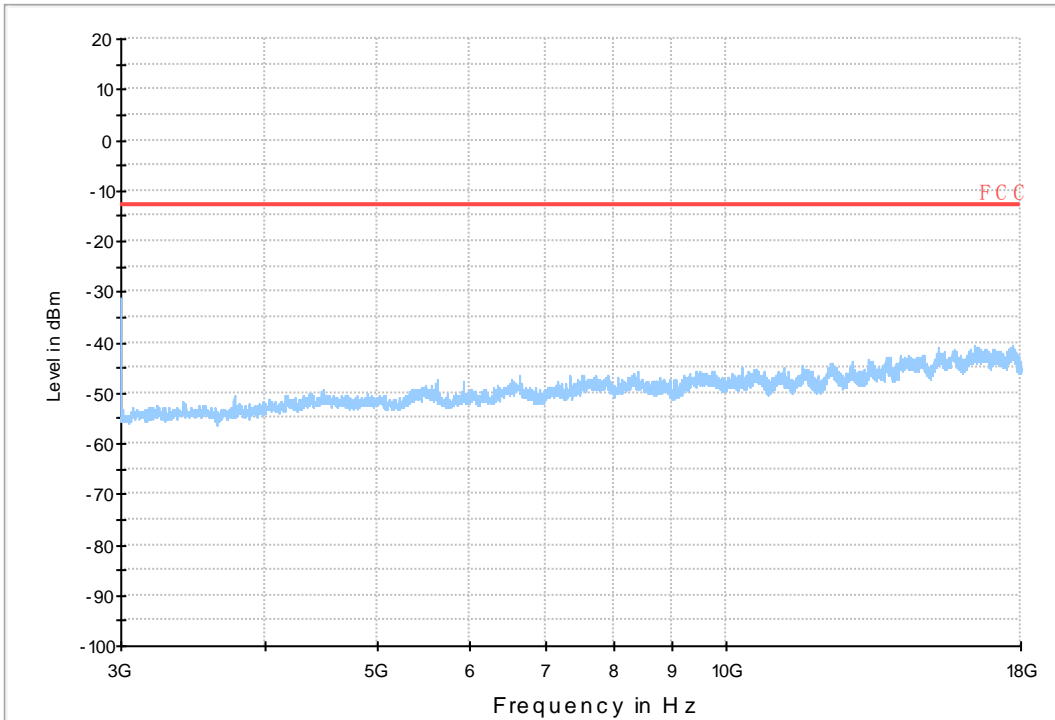
7.1.1.1 Test Bandwidth = 1.4

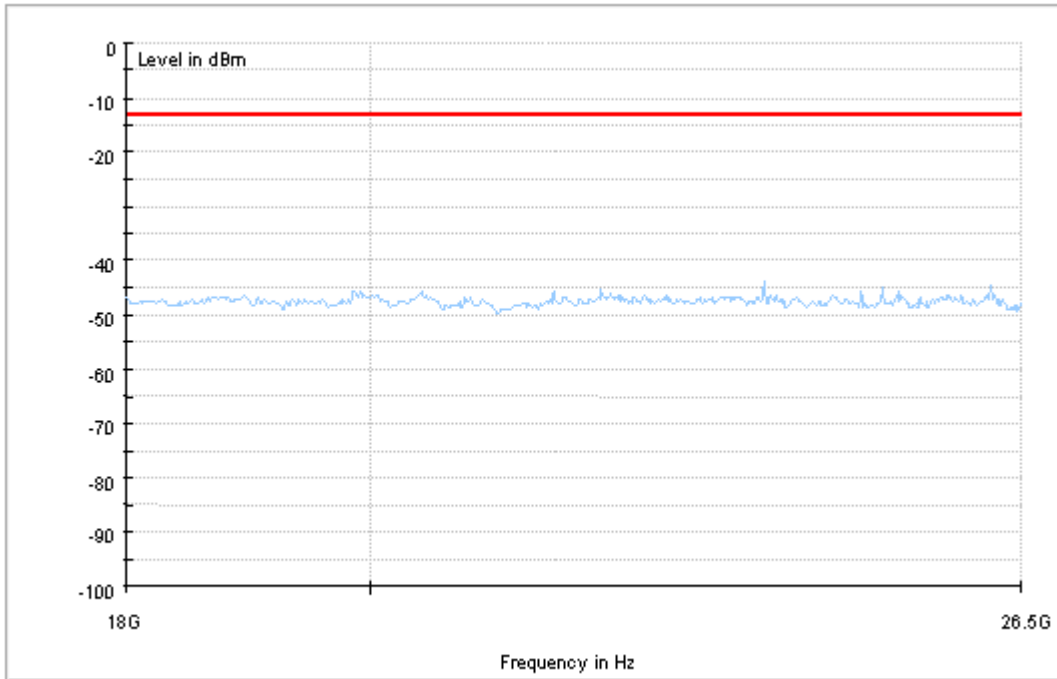


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

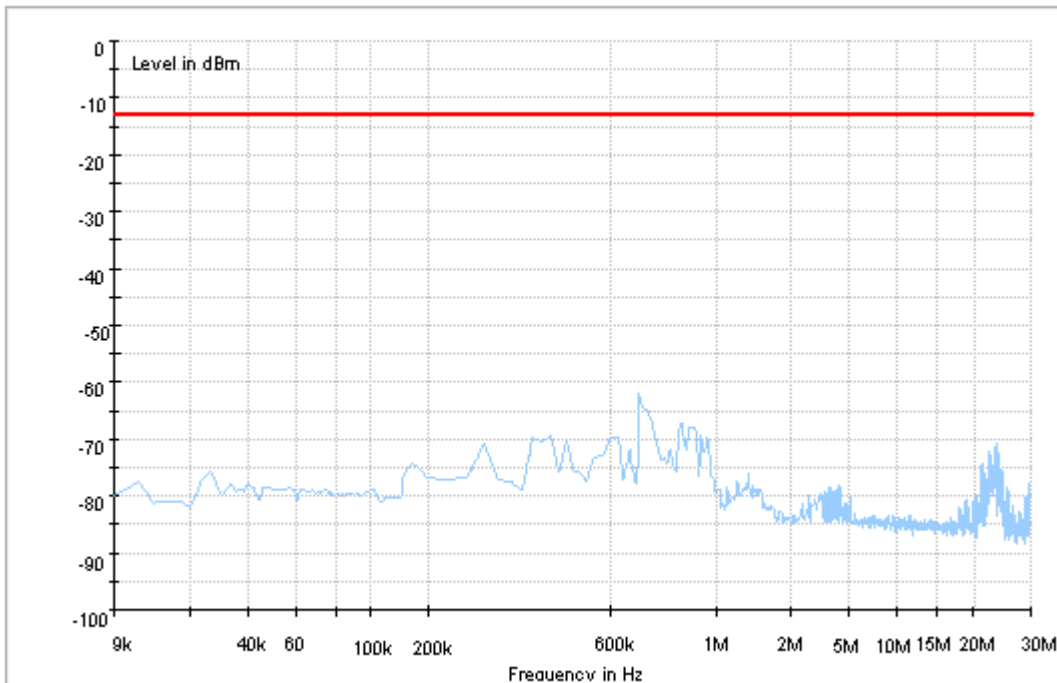


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

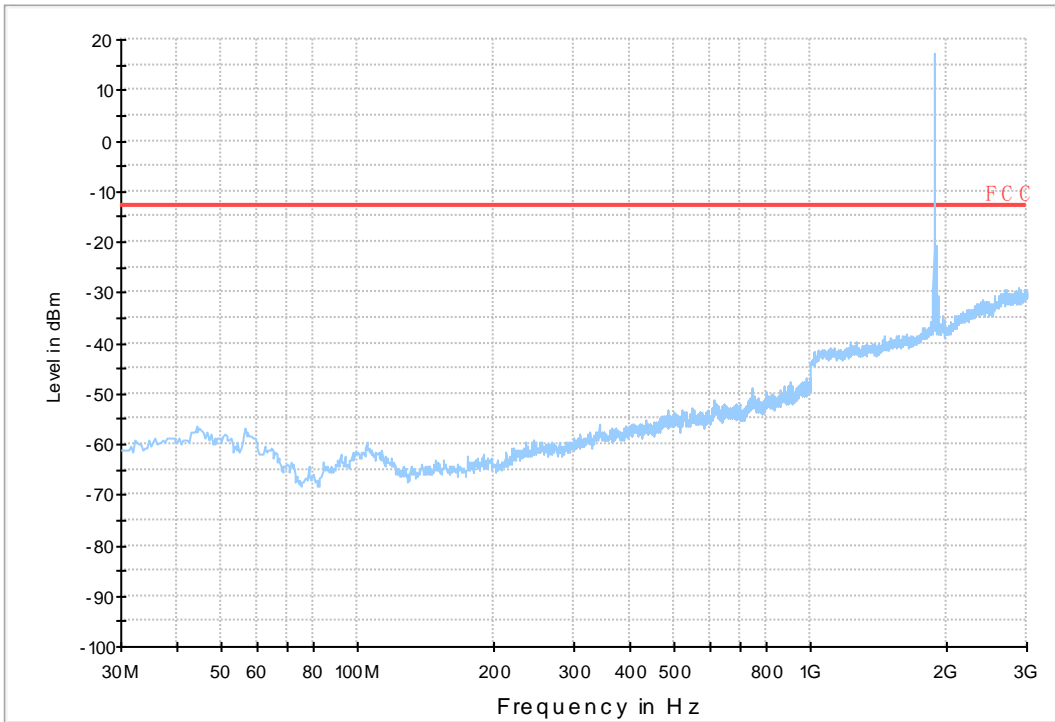




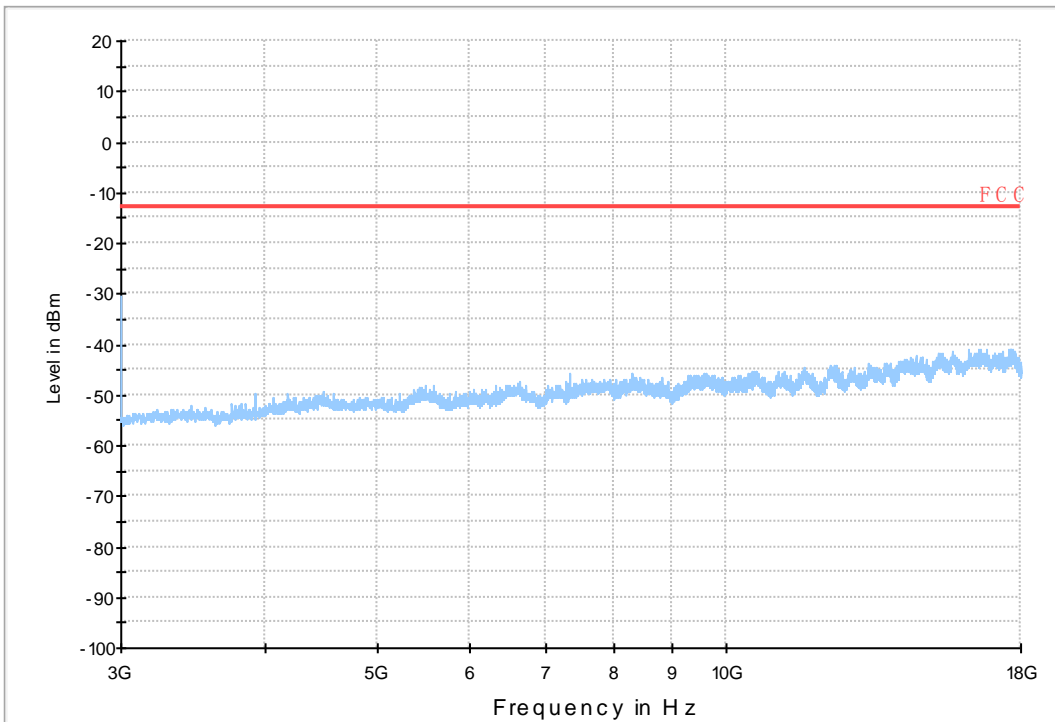
7.1.1.3 Test Bandwidth = 20

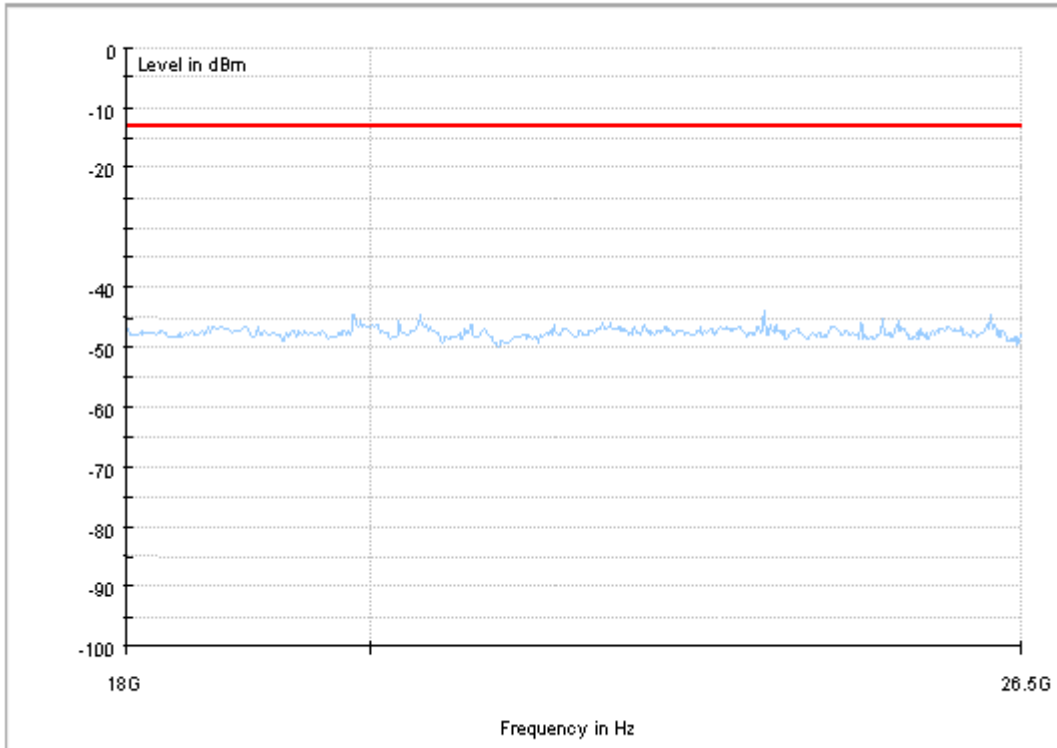


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H





8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1 Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| BAND2 | LTE/TM1 | 1.4 | LCH | TN | VL | -3.19 | -0.00172 | PASS |
| | | | | | VN | -3.2 | -0.00173 | PASS |
| | | | | | VH | -4.61 | -0.00249 | PASS |
| | | | MCH | TN | VL | -3.75 | -0.00199 | PASS |
| | | | | | VN | -5.24 | -0.00279 | PASS |
| | | | | | VH | -4.59 | -0.00244 | PASS |
| | | | HCH | TN | VL | 0.59 | 0.00031 | PASS |
| | | | | | VN | -2 | -0.00105 | PASS |
| | | | | | VH | -1 | -0.00052 | PASS |
| | | 3 | LCH | TN | VL | -3.35 | -0.00181 | PASS |
| | | | | | VN | -4.33 | -0.00234 | PASS |
| | | | | | VH | -4.18 | -0.00226 | PASS |
| | | | MCH | TN | VL | -3.45 | -0.00184 | PASS |
| | | | | | VN | -3.29 | -0.00175 | PASS |
| | | | | | VH | -2.45 | -0.0013 | PASS |
| | | | HCH | TN | VL | -1.06 | -0.00056 | PASS |
| | | | | | VN | -1.23 | -0.00064 | PASS |
| | | | | | VH | -0.79 | -0.00041 | PASS |
| | | 5 | LCH | TN | VL | -1.44 | -0.00078 | PASS |
| | | | | | VN | -1.86 | -0.001 | PASS |
| | | | | | VH | -3.4 | -0.00184 | PASS |
| | | | MCH | TN | VL | -4.92 | -0.00262 | PASS |
| | | | | | VN | -2.59 | -0.00138 | PASS |
| | | | | | VH | -4.88 | -0.0026 | PASS |
| | | | HCH | TN | VL | -0.67 | -0.00035 | PASS |
| | | | | | VN | -0.36 | -0.00019 | PASS |
| | | | | | VH | -0.07 | -0.00004 | PASS |
| | | 10 | LCH | TN | VL | -2.17 | -0.00117 | PASS |
| | | | | | VN | -1.33 | -0.00072 | PASS |
| | | | | | VH | -2.07 | -0.00112 | PASS |
| | | | MCH | TN | VL | -3.62 | -0.00193 | PASS |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|----------|------|
| | | | | | VN | -4.62 | -0.00246 | PASS | |
| | | | | | VH | -1.7 | -0.0009 | PASS | |
| | | | HCH | TN | VL | 1.57 | 0.00082 | PASS | |
| | | | | | VN | -0.03 | -0.00002 | PASS | |
| | | | | | VH | 1.82 | 0.00096 | PASS | |
| | | | | | VL | -3.08 | -0.00166 | PASS | |
| | | 15 | LCH | TN | VN | -3.06 | -0.00165 | PASS | |
| | | | | | VH | -3.2 | -0.00172 | PASS | |
| | | | | | VL | -3.96 | -0.00211 | PASS | |
| | | | MCH | TN | VN | -2.89 | -0.00154 | PASS | |
| | | | | | VH | -3.66 | -0.00195 | PASS | |
| | | | | | VL | -6.48 | -0.00341 | PASS | |
| | | | HCH | TN | VN | -5.69 | -0.00299 | PASS | |
| | | | | | VH | -6.47 | -0.0034 | PASS | |
| | | | | | VL | -0.03 | -0.00002 | PASS | |
| | | | 20 | LCH | TN | VN | -0.04 | -0.00002 | PASS |
| | | | | | | VH | -0.29 | -0.00016 | PASS |
| | | | | | | VL | -4.08 | -0.00217 | PASS |
| | | MCH | | TN | VN | -2.4 | -0.00128 | PASS | |
| | | | | | VH | -4.19 | -0.00223 | PASS | |
| | | | | | VL | -2.27 | -0.00119 | PASS | |
| | | HCH | | TN | VN | -2.37 | -0.00125 | PASS | |
| | | | | | VH | -3.13 | -0.00165 | PASS | |
| | | | | | VL | 0.2 | 0.00011 | PASS | |
| | | LTE/TM2 | 1.4 | LCH | TN | VN | -3.79 | -0.00205 | PASS |
| | | | | | | VH | -4.89 | -0.00264 | PASS |
| | | | | | | VL | -3.83 | -0.00204 | PASS |
| | | | | MCH | TN | VN | -3.23 | -0.00172 | PASS |
| | | | | | | VH | -3.2 | -0.0017 | PASS |
| | | | | | | VL | 1.76 | 0.00092 | PASS |
| | | | | HCH | TN | VN | 1.1 | 0.00058 | PASS |
| | | | | | | VH | 0.1 | 0.00005 | PASS |
| | | | | | | VL | -2.82 | -0.00152 | PASS |
| | | | 3 | LCH | TN | VN | -3.45 | -0.00186 | PASS |
| | | | | | | VH | -1.37 | -0.00074 | PASS |
| | | | | | | VL | -3.43 | -0.00182 | PASS |
| | | | | MCH | TN | VN | -5.79 | -0.00308 | PASS |
| | | | | | | VH | -3.09 | -0.00164 | PASS |
| | | | | | | VL | 0.96 | 0.0005 | PASS |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|------------|------------------|-----------------------|---------|
| | | | | | VN | -0.06 | -0.00003 | PASS |
| | | | | | VH | 0.66 | 0.00035 | PASS |
| | | 5 | LCH | TN | VL | -2.92 | -0.00158 | PASS |
| | | | | | VN | -2.2 | -0.00119 | PASS |
| | | | | | VH | -0.39 | -0.00021 | PASS |
| | | | MCH | TN | VL | -3.59 | -0.00191 | PASS |
| | | | | | VN | -3.09 | -0.00164 | PASS |
| | | | | | VH | -4.81 | -0.00256 | PASS |
| | | | HCH | TN | VL | 0.6 | 0.00031 | PASS |
| | | | | | VN | -0.66 | -0.00035 | PASS |
| | | | | | VH | -0.07 | -0.00004 | PASS |
| | | 10 | LCH | TN | VL | -1.86 | -0.001 | PASS |
| | | | | | VN | -2.3 | -0.00124 | PASS |
| | | | | | VH | -2.25 | -0.00121 | PASS |
| | | | MCH | TN | VL | -3.43 | -0.00182 | PASS |
| | | | | | VN | -2.59 | -0.00138 | PASS |
| | | | | | VH | -3.58 | -0.0019 | PASS |
| | | | HCH | TN | VL | 0.77 | 0.0004 | PASS |
| | | | | | VN | 1.09 | 0.00057 | PASS |
| | | | | | VH | 1.46 | 0.00077 | PASS |
| | | 15 | LCH | TN | VL | -3.23 | -0.00174 | PASS |
| | | | | | VN | -4.35 | -0.00234 | PASS |
| | | | | | VH | -4.28 | -0.0023 | PASS |
| | | | MCH | TN | VL | -2.62 | -0.00139 | PASS |
| | | | | | VN | -3.1 | -0.00165 | PASS |
| | | | | | VH | -3.92 | -0.00209 | PASS |
| | | | HCH | TN | VL | -7 | -0.00368 | PASS |
| | | | | | VN | -6.47 | -0.0034 | PASS |
| | | | | | VH | -6.71 | -0.00353 | PASS |
| | | 20 | LCH | TN | VL | -0.43 | -0.00023 | PASS |
| | | | | | VN | 0.53 | 0.00028 | PASS |
| | | | | | VH | -1.77 | -0.00095 | PASS |
| | | | MCH | TN | VL | -4.15 | -0.00221 | PASS |
| | | | | | VN | -3.69 | -0.00196 | PASS |
| | | | | | VH | -3.86 | -0.00205 | PASS |
| | | | HCH | TN | VL | -2.83 | -0.00149 | PASS |
| | | | | | VN | -4.15 | -0.00218 | PASS |
| | | | | | VH | -2.39 | -0.00126 | PASS |



8.1.2 Frequency Error vs. Temperature:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp . | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-------------|------------------|-----------------------|---------|
| BAND2 | LTE/TM1 | 1.4 | LCH | VN | -30 | -3.66 | -0.00198 | PASS |
| | | | | | -20 | -2.17 | -0.00117 | PASS |
| | | | | | -10 | -3.66 | -0.00198 | PASS |
| | | | | | 0 | -1.69 | -0.00091 | PASS |
| | | | | | 10 | -4.45 | -0.0024 | PASS |
| | | | | | 20 | -3.12 | -0.00169 | PASS |
| | | | | | 30 | -1.86 | -0.00101 | PASS |
| | | | | | 40 | -2.39 | -0.00129 | PASS |
| | | | 50 | -0.76 | -0.00041 | PASS | | |
| | | | MCH | VN | -30 | -3.69 | -0.00196 | PASS |
| | | | | | -20 | -3.91 | -0.00208 | PASS |
| | | | | | -10 | -3.29 | -0.00175 | PASS |
| | | | | | 0 | -3.39 | -0.0018 | PASS |
| | | | | | 10 | -2.49 | -0.00132 | PASS |
| | | | | | 20 | -5.39 | -0.00287 | PASS |
| | | | | | 30 | -5.26 | -0.0028 | PASS |
| | | 40 | | | -5.89 | -0.00313 | PASS | |
| | | 50 | -4.52 | -0.0024 | PASS | | | |
| | | HCH | VN | -30 | -1.69 | -0.00089 | PASS | |
| | | | | -20 | -2.43 | -0.00127 | PASS | |
| | | | | -10 | -2.5 | -0.00131 | PASS | |
| | | | | 0 | -0.34 | -0.00018 | PASS | |
| | | | | 10 | -2.66 | -0.00139 | PASS | |
| | | | | 20 | -1.53 | -0.0008 | PASS | |
| | | | | 30 | -1.24 | -0.00065 | PASS | |
| | | | | 40 | -1.59 | -0.00083 | PASS | |
| | | 50 | -2.16 | -0.00113 | PASS | | | |
| | | 3 | LCH | VN | -30 | -4.22 | -0.00228 | PASS |
| | | | | | -20 | -3.08 | -0.00166 | PASS |
| | | | | | -10 | -2.95 | -0.00159 | PASS |
| | | | | | 0 | -3.36 | -0.00181 | PASS |
| | | | | | 10 | -3.32 | -0.00179 | PASS |
| 20 | -3.03 | | | | -0.00164 | PASS | | |
| 30 | -1.77 | | | | -0.00096 | PASS | | |
| 40 | -2.96 | | | | -0.0016 | PASS | | |
| 50 | -3.81 | | | -0.00206 | PASS | | | |
| MCH | VN | | | -30 | -3.69 | -0.00196 | PASS | |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp . | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | | |
|-----------|-----------|----------------------|--------------|------------|-------------|------------------|-----------------------|---------|----------|------|
| | | | | | -20 | -2.7 | -0.00144 | PASS | | |
| | | | | | -10 | -3.3 | -0.00176 | PASS | | |
| | | | | | 0 | -2.9 | -0.00154 | PASS | | |
| | | | | | 10 | -3.13 | -0.00166 | PASS | | |
| | | | | | 20 | -3.78 | -0.00201 | PASS | | |
| | | | | | 30 | -3.46 | -0.00184 | PASS | | |
| | | | | | 40 | -3.85 | -0.00205 | PASS | | |
| | | | | | 50 | -3.4 | -0.00181 | PASS | | |
| | | | HCH | VN | -30 | -0.72 | -0.00038 | PASS | | |
| | | | | | -20 | -1.9 | -0.001 | PASS | | |
| | | | | | -10 | -1.43 | -0.00075 | PASS | | |
| | | | | | 0 | -0.87 | -0.00046 | PASS | | |
| | | | | | 10 | -2.13 | -0.00112 | PASS | | |
| | | | | | 20 | -0.1 | -0.00005 | PASS | | |
| | | | | | 30 | 0.07 | 0.00004 | PASS | | |
| | | | | | 40 | -2.06 | -0.00108 | PASS | | |
| | | | LCH | VN | -30 | -2 | -0.00108 | PASS | | |
| | | | | | -20 | -1.52 | -0.00082 | PASS | | |
| | | | | | -10 | -3.29 | -0.00178 | PASS | | |
| | | | | | 0 | -2.85 | -0.00154 | PASS | | |
| | | 10 | | | -1.67 | -0.0009 | PASS | | | |
| | | 20 | | | -1.7 | -0.00092 | PASS | | | |
| | | 30 | | | -2 | -0.00108 | PASS | | | |
| | | 40 | | | -1.87 | -0.00101 | PASS | | | |
| | | MCH | VN | -30 | -4.11 | -0.00219 | PASS | | | |
| | | | | -20 | -1.63 | -0.00087 | PASS | | | |
| | | | | -10 | -3.35 | -0.00178 | PASS | | | |
| | | | | 0 | -4.09 | -0.00218 | PASS | | | |
| | | | | 10 | -3.93 | -0.00209 | PASS | | | |
| | | | | 20 | -5.11 | -0.00272 | PASS | | | |
| | | | | 30 | -4.72 | -0.00251 | PASS | | | |
| | | | | 40 | -4.06 | -0.00216 | PASS | | | |
| | | HCH | VN | -30 | 0.44 | 0.00023 | PASS | | | |
| | | | | -20 | -1.04 | -0.00055 | PASS | | | |
| | | | | -10 | -0.37 | -0.00019 | PASS | | | |
| | | | | 0 | -1.07 | -0.00056 | PASS | | | |
| | | 5 | | | | | -30 | -2 | -0.00108 | PASS |
| | | | | | | | -20 | -1.52 | -0.00082 | PASS |
| | | | | | | | -10 | -3.29 | -0.00178 | PASS |
| | | | | | | | 0 | -2.85 | -0.00154 | PASS |
| 10 | -1.67 | | | | | | -0.0009 | PASS | | |
| 20 | -1.7 | | | | | | -0.00092 | PASS | | |
| 30 | -2 | | | | | | -0.00108 | PASS | | |
| 40 | -1.87 | | | | | | -0.00101 | PASS | | |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp . | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | | | |
|-----------|-----------|----------------------|--------------|------------|-------------|------------------|-----------------------|---------|-------|----------|------|
| | | | | | 10 | -0.47 | -0.00025 | PASS | | | |
| | | | | | 20 | 0.47 | 0.00025 | PASS | | | |
| | | | | | 30 | 1.14 | 0.0006 | PASS | | | |
| | | | | | 40 | -1.42 | -0.00074 | PASS | | | |
| | | | | | 50 | -0.46 | -0.00024 | PASS | | | |
| | | | | | 10 | LCH | VN | -30 | -1.13 | -0.00061 | PASS |
| | | | | | | | | -20 | -1.54 | -0.00083 | PASS |
| | | | | | | | | -10 | 0.21 | 0.00011 | PASS |
| | | | | | | | | 0 | -1.42 | -0.00077 | PASS |
| | | | | | | | | 10 | -1.89 | -0.00102 | PASS |
| | | 20 | -2.39 | -0.00129 | | | | PASS | | | |
| | | 30 | -2.23 | -0.0012 | | | | PASS | | | |
| | | 40 | -1 | -0.00054 | | | | PASS | | | |
| | | 50 | -1.3 | -0.0007 | | | | PASS | | | |
| | | 10 | MCH | VN | | | | -30 | -2.66 | -0.00141 | PASS |
| | | | | | -20 | -2.03 | -0.00108 | PASS | | | |
| | | | | | -10 | -3.73 | -0.00198 | PASS | | | |
| | | | | | 0 | -2.85 | -0.00152 | PASS | | | |
| | | | | | 10 | -3.33 | -0.00177 | PASS | | | |
| | | | | | 20 | -3.33 | -0.00177 | PASS | | | |
| | | | | | 30 | -4.13 | -0.0022 | PASS | | | |
| | | | | | 40 | -2.65 | -0.00141 | PASS | | | |
| | | | | | 50 | -4.39 | -0.00234 | PASS | | | |
| | | | | | 10 | HCH | VN | -30 | 0.66 | 0.00035 | PASS |
| | | -20 | 0.77 | 0.0004 | | | | PASS | | | |
| | | -10 | 1.24 | 0.00065 | | | | PASS | | | |
| | | 0 | 0.89 | 0.00047 | | | | PASS | | | |
| | | 10 | 1.6 | 0.00084 | | | | PASS | | | |
| | | 20 | 0.54 | 0.00028 | | | | PASS | | | |
| | | 30 | -0.06 | -0.00003 | | | | PASS | | | |
| | | 40 | 2.07 | 0.00109 | | | | PASS | | | |
| | | 50 | 1.86 | 0.00098 | | | | PASS | | | |
| | | 15 | LCH | VN | | | | -30 | -3.25 | -0.00175 | PASS |
| -20 | -4.48 | | | | -0.00241 | PASS | | | | | |
| -10 | -3.86 | | | | -0.00208 | PASS | | | | | |
| 0 | -4.39 | | | | -0.00236 | PASS | | | | | |
| 10 | 5.21 | | | | 0.0028 | PASS | | | | | |
| 20 | -3.99 | | | | -0.00215 | PASS | | | | | |
| 30 | -2.7 | | | | -0.00145 | PASS | | | | | |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp . | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | |
|-----------|-----------|----------------------|--------------|------------|-------------|------------------|-----------------------|----------|----------|
| | | | | | 40 | -2.75 | -0.00148 | PASS | |
| | | | | | 50 | -3.16 | -0.0017 | PASS | |
| | | | MCH | VN | -30 | -4.23 | -0.00225 | PASS | |
| | | | | | -20 | -3.58 | -0.0019 | PASS | |
| | | | | | -10 | -3.46 | -0.00184 | PASS | |
| | | | | | 0 | -3.59 | -0.00191 | PASS | |
| | | | | | 10 | -2.99 | -0.00159 | PASS | |
| | | | | | 20 | -3.32 | -0.00177 | PASS | |
| | | | | | 30 | -4.65 | -0.00247 | PASS | |
| | | | | | 40 | -3.79 | -0.00202 | PASS | |
| | | | | | 50 | -3.05 | -0.00162 | PASS | |
| | | | | | HCH | VN | -30 | -5.41 | -0.00284 |
| | | | -20 | -6.08 | | | -0.0032 | PASS | |
| | | | -10 | -5.16 | | | -0.00271 | PASS | |
| | | | 0 | -5.91 | | | -0.00311 | PASS | |
| | | | 10 | -6.72 | | | -0.00353 | PASS | |
| | | | 20 | -5.54 | | | -0.00291 | PASS | |
| | | | 30 | -5.75 | | | -0.00302 | PASS | |
| | | 40 | -5.25 | -0.00276 | | | PASS | | |
| | | 20 | | LCH | VN | -30 | -0.6 | -0.00032 | PASS |
| | | | | | | -20 | -0.56 | -0.0003 | PASS |
| | | | | | | -10 | -0.51 | -0.00027 | PASS |
| | | | | | | 0 | 0.01 | 0.00001 | PASS |
| | | | | | | 10 | -0.21 | -0.00011 | PASS |
| | | | | | | 20 | -0.43 | -0.00023 | PASS |
| | | | | | | 30 | -1.53 | -0.00082 | PASS |
| | | | | | | 40 | -0.1 | -0.00005 | PASS |
| | | | | | | 50 | -1.12 | -0.0006 | PASS |
| | | | | MCH | VN | -30 | -2.22 | -0.00118 | PASS |
| | | | | | | -20 | -3.09 | -0.00164 | PASS |
| | | | | | | -10 | -3.33 | -0.00177 | PASS |
| | | | | | | 0 | -2.37 | -0.00126 | PASS |
| | | | | | | 10 | -2.88 | -0.00153 | PASS |
| 20 | -3.5 | | | | | -0.00186 | PASS | | |
| HCH | VN | 30 | -2.88 | -0.00153 | PASS | | | | |
| | | 40 | -2.63 | -0.0014 | PASS | | | | |
| | | 50 | -1.17 | -0.00062 | PASS | | | | |
| | | | HCH | VN | -30 | -2.16 | -0.00114 | PASS | |

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp . | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | | |
|-----------|-----------|----------------------|--------------|------------|-------------|------------------|-----------------------|----------|----------|------|
| | | | | | -20 | -2.03 | -0.00107 | PASS | | |
| | | | | | -10 | -2.2 | -0.00116 | PASS | | |
| | | | | | 0 | -3.33 | -0.00175 | PASS | | |
| | | | | | 10 | -2 | -0.00105 | PASS | | |
| | | | | | 20 | -1.06 | -0.00056 | PASS | | |
| | | | | | 30 | -2.4 | -0.00126 | PASS | | |
| | | | | | 40 | -2.03 | -0.00107 | PASS | | |
| | | | | | 50 | -3.32 | -0.00175 | PASS | | |
| | LTE/TM2 | 1.4 | LCH | VN | -30 | -1.34 | -0.00072 | PASS | | |
| | | | | | -20 | -2.66 | -0.00144 | PASS | | |
| | | | | | -10 | -1.6 | -0.00086 | PASS | | |
| | | | | | 0 | 1.02 | 0.00055 | PASS | | |
| | | | | | 10 | -3.32 | -0.00179 | PASS | | |
| | | | | | 20 | -3.08 | -0.00166 | PASS | | |
| | | | | | 30 | -3.13 | -0.00169 | PASS | | |
| | | | | | 40 | -2.46 | -0.00133 | PASS | | |
| | | | | | 50 | -1.72 | -0.00093 | PASS | | |
| | | | | | MCH | VN | -30 | -2.72 | -0.00145 | PASS |
| | | | | | | | -20 | -4.02 | -0.00214 | PASS |
| | | | | | | | -10 | -3.09 | -0.00164 | PASS |
| | | | | | | | 0 | -4.49 | -0.00239 | PASS |
| | | | | | | | 10 | -4.05 | -0.00215 | PASS |
| | | | | | | | 20 | -3.93 | -0.00209 | PASS |
| | | | | | | | 30 | -3.59 | -0.00191 | PASS |
| | | | 40 | -4.96 | | | -0.00264 | PASS | | |
| | | | HCH | VN | -30 | 0.73 | 0.00038 | PASS | | |
| | | | | | -20 | 1.02 | 0.00053 | PASS | | |
| | | | | | -10 | -0.8 | -0.00042 | PASS | | |
| | | | | | 0 | 0.2 | 0.0001 | PASS | | |
| | | | | | 10 | -0.6 | -0.00031 | PASS | | |
| | | | | | 20 | -3.02 | -0.00158 | PASS | | |
| | | | | | 30 | -1.6 | -0.00084 | PASS | | |
| | | | | | 40 | -1.16 | -0.00061 | PASS | | |
| | | | 3 | LCH | VN | -30 | -0.24 | -0.00013 | PASS | |
| | | | | | | -20 | -2.25 | -0.00122 | PASS | |
| | | | | | | -10 | -3.19 | -0.00172 | PASS | |
| 0 | -3.18 | -0.00172 | | | | PASS | | | | |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp . | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | |
|-----------|-----------|----------------------|--------------|------------|-------------|------------------|-----------------------|----------|---------|
| | | | | | 10 | -0.6 | -0.00032 | PASS | |
| | | | | | 20 | -2.65 | -0.00143 | PASS | |
| | | | | | 30 | -2.47 | -0.00133 | PASS | |
| | | | | | 40 | -3.62 | -0.00196 | PASS | |
| | | | | | 50 | -1.56 | -0.00084 | PASS | |
| | | | MCH | VN | -30 | -2.69 | -0.00143 | PASS | |
| | | | | | -20 | -3.93 | -0.00209 | PASS | |
| | | | | | -10 | -2.82 | -0.0015 | PASS | |
| | | | | | 0 | -2.06 | -0.0011 | PASS | |
| | | | | | 10 | -4.15 | -0.00221 | PASS | |
| | | | | | 20 | -3.32 | -0.00177 | PASS | |
| | | | | | 30 | -3.08 | -0.00164 | PASS | |
| | | | | | 40 | -3.25 | -0.00173 | PASS | |
| | | | | | 50 | -2.27 | -0.00121 | PASS | |
| | | | | | HCH | VN | -30 | 0.01 | 0.00001 |
| | | | -20 | 1.65 | | | 0.00086 | PASS | |
| | | | -10 | -0.13 | | | -0.00007 | PASS | |
| | | | 0 | -0.17 | | | -0.00009 | PASS | |
| | | | 10 | 1.29 | | | 0.00068 | PASS | |
| | | | 20 | 0.64 | | | 0.00034 | PASS | |
| | | | 30 | 0.62 | | | 0.00032 | PASS | |
| | | | 40 | 0.07 | | | 0.00004 | PASS | |
| | | | 5 | LCH | VN | -30 | -2.98 | -0.00161 | PASS |
| | | | | | | -20 | -1.44 | -0.00078 | PASS |
| | | | | | | -10 | -1.93 | -0.00104 | PASS |
| | | | | | | 0 | -1.57 | -0.00085 | PASS |
| | | | | | | 10 | -1.8 | -0.00097 | PASS |
| | | | | | | 20 | -2.32 | -0.00125 | PASS |
| | | | | | | 30 | -2.19 | -0.00118 | PASS |
| | | | | | | 40 | -1.26 | -0.00068 | PASS |
| | | | | | | 50 | -1.67 | -0.0009 | PASS |
| | | | | | | MCH | VN | -30 | -1.67 |
| | | | | -20 | -3.69 | | | -0.00196 | PASS |
| | | | | -10 | -2.42 | | | -0.00129 | PASS |
| | | | | 0 | -3.71 | | | -0.00197 | PASS |
| | | | | 10 | -4.33 | | | -0.0023 | PASS |
| | | | | 20 | -2.73 | -0.00145 | PASS | | |
| | | | 30 | -3.95 | -0.0021 | PASS | | | |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp . | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | | |
|-----------|-----------|----------------------|--------------|------------|-------------|------------------|-----------------------|----------|----------|------|
| | | | | | 40 | -4.36 | -0.00232 | PASS | | |
| | | | | | 50 | -4.06 | -0.00216 | PASS | | |
| | | | HCH | VN | -30 | -0.3 | -0.00016 | PASS | | |
| | | | | | -20 | 0.7 | 0.00037 | PASS | | |
| | | | | | -10 | -0.62 | -0.00033 | PASS | | |
| | | | | | 0 | 0.27 | 0.00014 | PASS | | |
| | | | | | 10 | -0.44 | -0.00023 | PASS | | |
| | | | | | 20 | -0.06 | -0.00003 | PASS | | |
| | | | | | 30 | 0.27 | 0.00014 | PASS | | |
| | | | | | 40 | -1.42 | -0.00074 | PASS | | |
| | | 50 | 0.16 | 0.00008 | PASS | | | | | |
| | | | | | LCH | VN | -30 | -1.53 | -0.00082 | PASS |
| | | | | | | | -20 | -2.82 | -0.00152 | PASS |
| | | | | | | | -10 | -3.19 | -0.00172 | PASS |
| | | | | | | | 0 | -2.25 | -0.00121 | PASS |
| | | | | | | | 10 | -1.04 | -0.00056 | PASS |
| | | | | | | | 20 | -1.6 | -0.00086 | PASS |
| | | | | | | | 30 | -1.5 | -0.00081 | PASS |
| | | | | | | | 40 | -2.12 | -0.00114 | PASS |
| | | | | | | | 50 | -1.33 | -0.00072 | PASS |
| | | | | | | | | | | MCH |
| | | -20 | -4.18 | -0.00222 | PASS | | | | | |
| | | -10 | -2.19 | -0.00116 | PASS | | | | | |
| | | 0 | -3.6 | -0.00191 | PASS | | | | | |
| | | 10 | -1.6 | -0.00085 | PASS | | | | | |
| | | 20 | -3.28 | -0.00174 | PASS | | | | | |
| | | 30 | -2.35 | -0.00125 | PASS | | | | | |
| | | 40 | -3.36 | -0.00179 | PASS | | | | | |
| | | 50 | -2.95 | -0.00157 | PASS | | | | | |
| | | | | | HCH | VN | | | | |
| | | | | | | | -20 | 0.69 | 0.00036 | PASS |
| | | | | | | | -10 | 1.34 | 0.0007 | PASS |
| | | | | | | | 0 | 0.89 | 0.00047 | PASS |
| | | | | | | | 10 | 1.27 | 0.00067 | PASS |
| | | | | | | | 20 | 0.56 | 0.00029 | PASS |
| | | | | | | | 30 | 0.34 | 0.00018 | PASS |
| | | | | | | | 40 | 2.19 | 0.00115 | PASS |
| | | 50 | 1.2 | 0.00063 | PASS | | | | | |
| | | 15 | | LCH | VN | -30 | -4.03 | -0.00217 | PASS | |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp . | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict | |
|-----------|-----------|----------------------|--------------|------------|-------------|------------------|-----------------------|----------|------|
| | | | | | -20 | 0.69 | 0.00037 | PASS | |
| | | | | | -10 | -4.73 | -0.00255 | PASS | |
| | | | | | 0 | -3.62 | -0.00195 | PASS | |
| | | | | | 10 | -3.89 | -0.00209 | PASS | |
| | | | | | 20 | -3.72 | -0.002 | PASS | |
| | | | | | 30 | -4.21 | -0.00227 | PASS | |
| | | | | | 40 | -2.65 | -0.00143 | PASS | |
| | | | | | 50 | -3.39 | -0.00183 | PASS | |
| | | | MCH | VN | -30 | -2.82 | -0.0015 | PASS | |
| | | | | | -20 | -2.49 | -0.00132 | PASS | |
| | | | | | -10 | -3.56 | -0.00189 | PASS | |
| | | | | | 0 | -3.32 | -0.00177 | PASS | |
| | | | | | 10 | -3.18 | -0.00169 | PASS | |
| | | | | | 20 | -4.01 | -0.00213 | PASS | |
| | | | | | 30 | -4.36 | -0.00232 | PASS | |
| | | | | | 40 | -3.33 | -0.00177 | PASS | |
| | | | HCH | VN | -30 | -6.32 | -0.00332 | PASS | |
| | | | | | -20 | -7.57 | -0.00398 | PASS | |
| | | | | | -10 | -7.2 | -0.00378 | PASS | |
| | | | | | 0 | -7.37 | -0.00387 | PASS | |
| | | | | | 10 | -7.44 | -0.00391 | PASS | |
| | | | | | 20 | -7.64 | -0.00402 | PASS | |
| | | | | | 30 | -6.78 | -0.00356 | PASS | |
| | | | | | 40 | -7.44 | -0.00391 | PASS | |
| | | | 20 | LCH | VN | -30 | -0.07 | -0.00004 | PASS |
| | | | | | | -20 | -0.53 | -0.00028 | PASS |
| | | | | | | -10 | -1.4 | -0.00075 | PASS |
| | | | | | | 0 | -1.39 | -0.00075 | PASS |
| | | 10 | | | | 0.06 | 0.00003 | PASS | |
| | | 20 | | | | 0.36 | 0.00019 | PASS | |
| | | 30 | | | | -0.09 | -0.00005 | PASS | |
| | | 40 | | | | -0.94 | -0.00051 | PASS | |
| | | 50 | | -1.59 | -0.00085 | PASS | | | |
| | | MCH | | VN | -30 | -4.28 | -0.00228 | PASS | |
| | | | | | -20 | -4.49 | -0.00239 | PASS | |
| | | | | | -10 | -3.65 | -0.00194 | PASS | |
| | | | 0 | | -3.22 | -0.00171 | PASS | | |



| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp . | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|----------------------|--------------|------------|-------------|------------------|-----------------------|---------|
| | | | | | 10 | -3.4 | -0.00181 | PASS |
| | | | | | 20 | -3.02 | -0.00161 | PASS |
| | | | | | 30 | -3.66 | -0.00195 | PASS |
| | | | | | 40 | -3.5 | -0.00186 | PASS |
| | | | | | 50 | -3 | -0.0016 | PASS |
| | | | HCH | VN | -30 | -3.15 | -0.00166 | PASS |
| | | | | | -20 | -3.36 | -0.00177 | PASS |
| | | | | | -10 | -3.4 | -0.00179 | PASS |
| | | | | | 0 | -3.59 | -0.00189 | PASS |
| | | | | | 10 | -4.99 | -0.00263 | PASS |
| | | | | | 20 | -2.1 | -0.00111 | PASS |
| | | | | | 30 | -3.13 | -0.00165 | PASS |
| | | | | | 40 | -3.03 | -0.00159 | PASS |
| | | | | | 50 | -2.53 | -0.00133 | PASS |

END