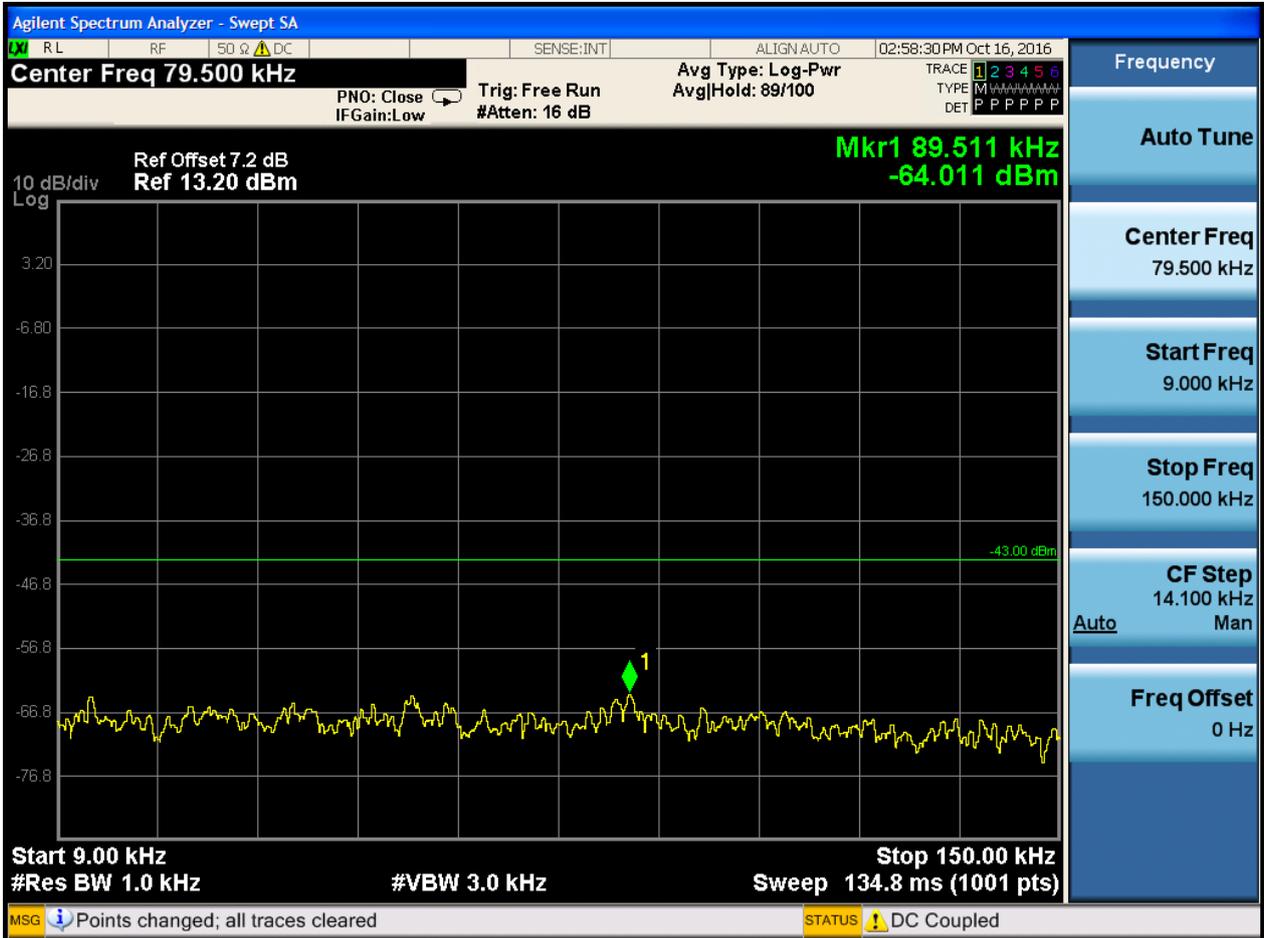




6.1.1.2.3.2 Test Channel = MCH

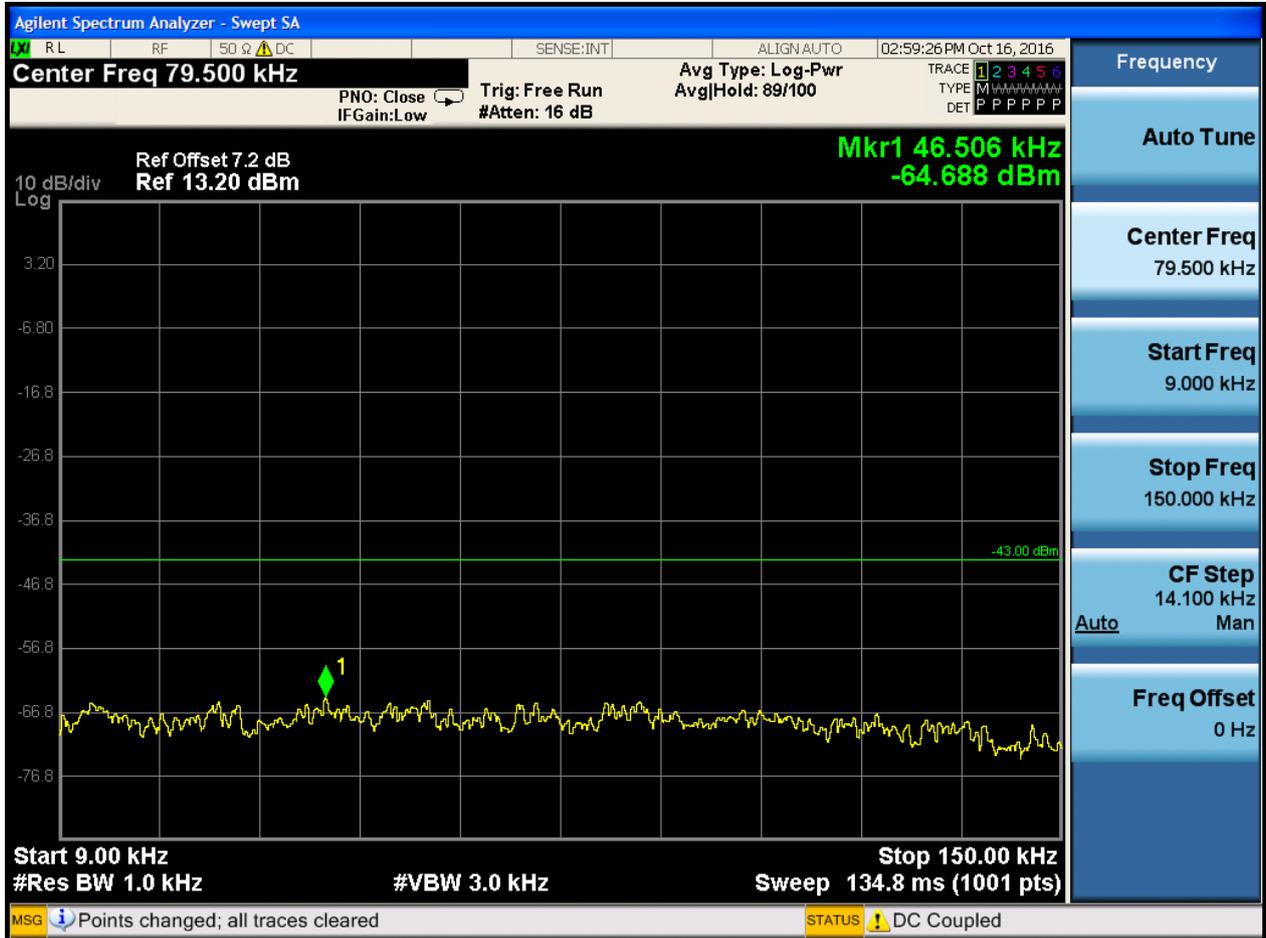
6.1.1.2.3.2.1 Test RB = RB1#0





6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0

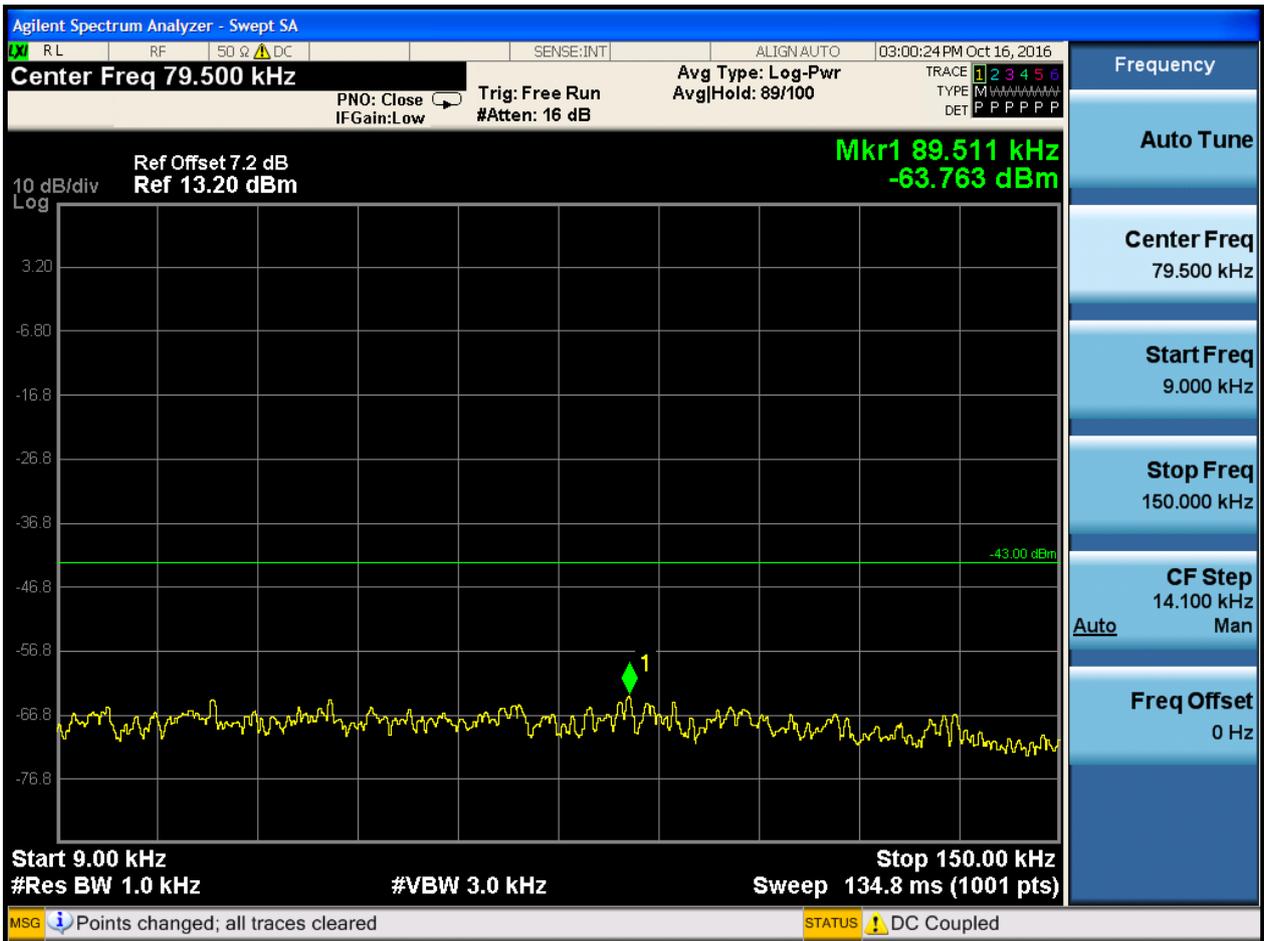


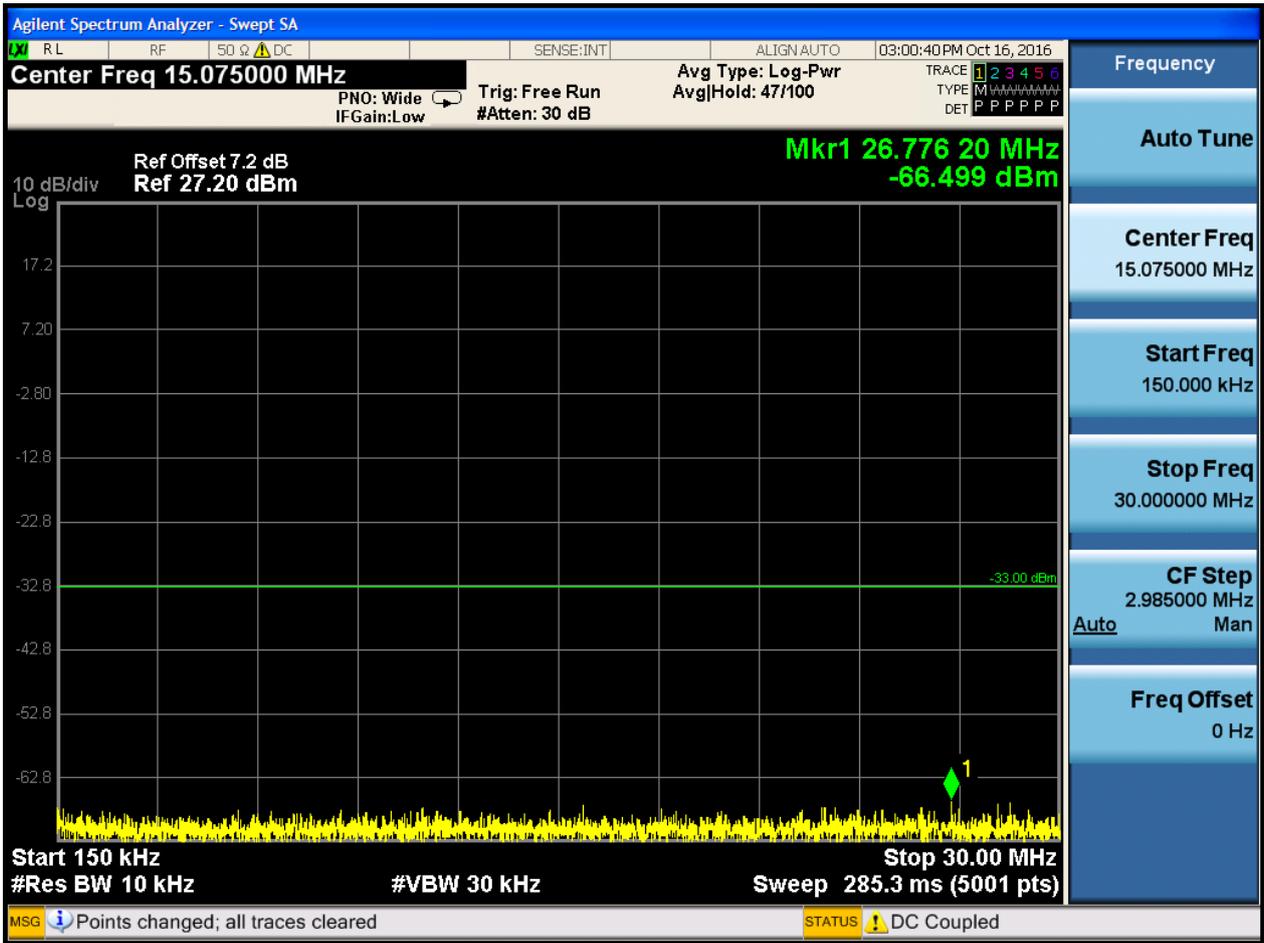


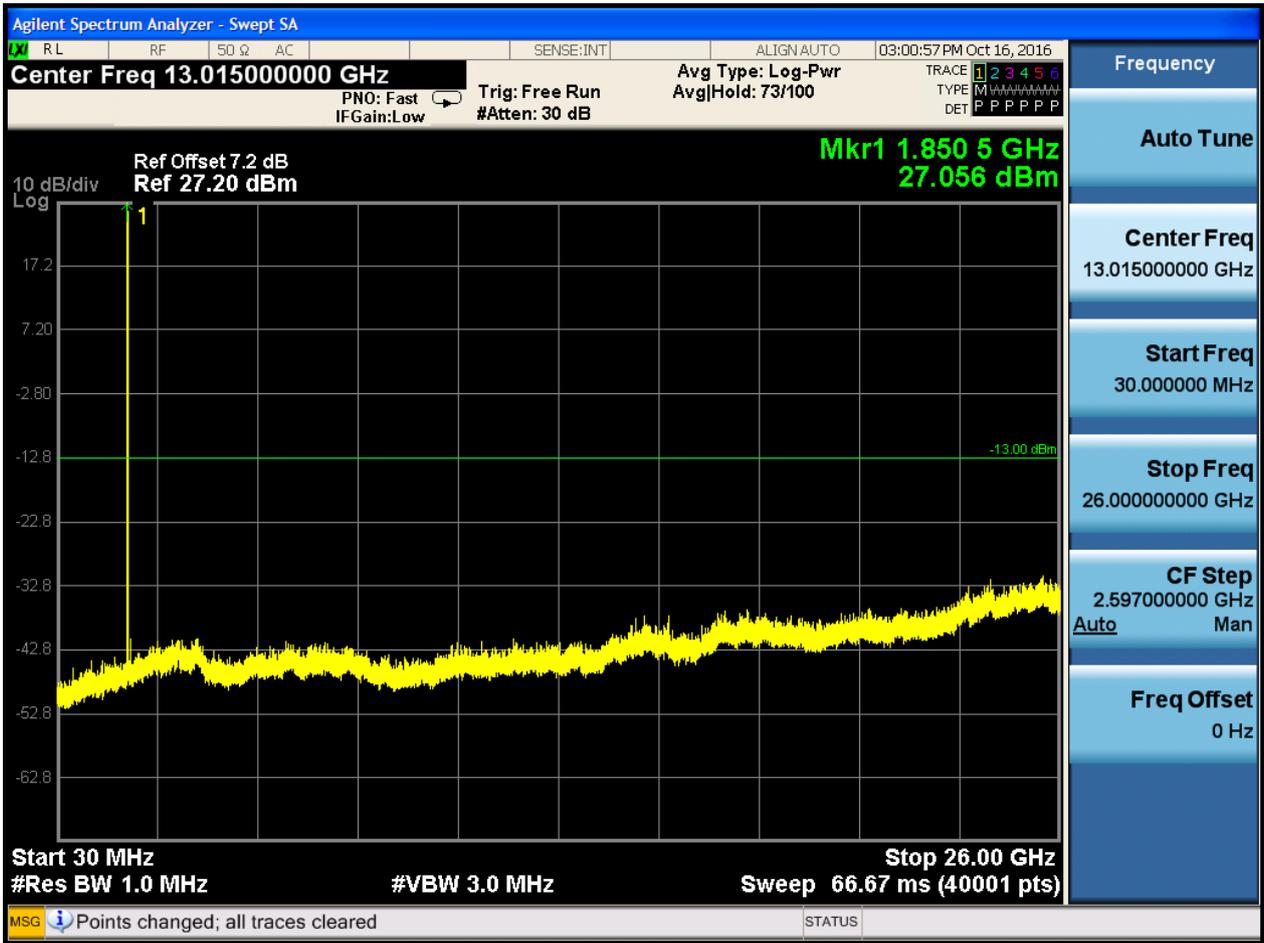
6.1.1.2.4 Test Bandwidth = 10

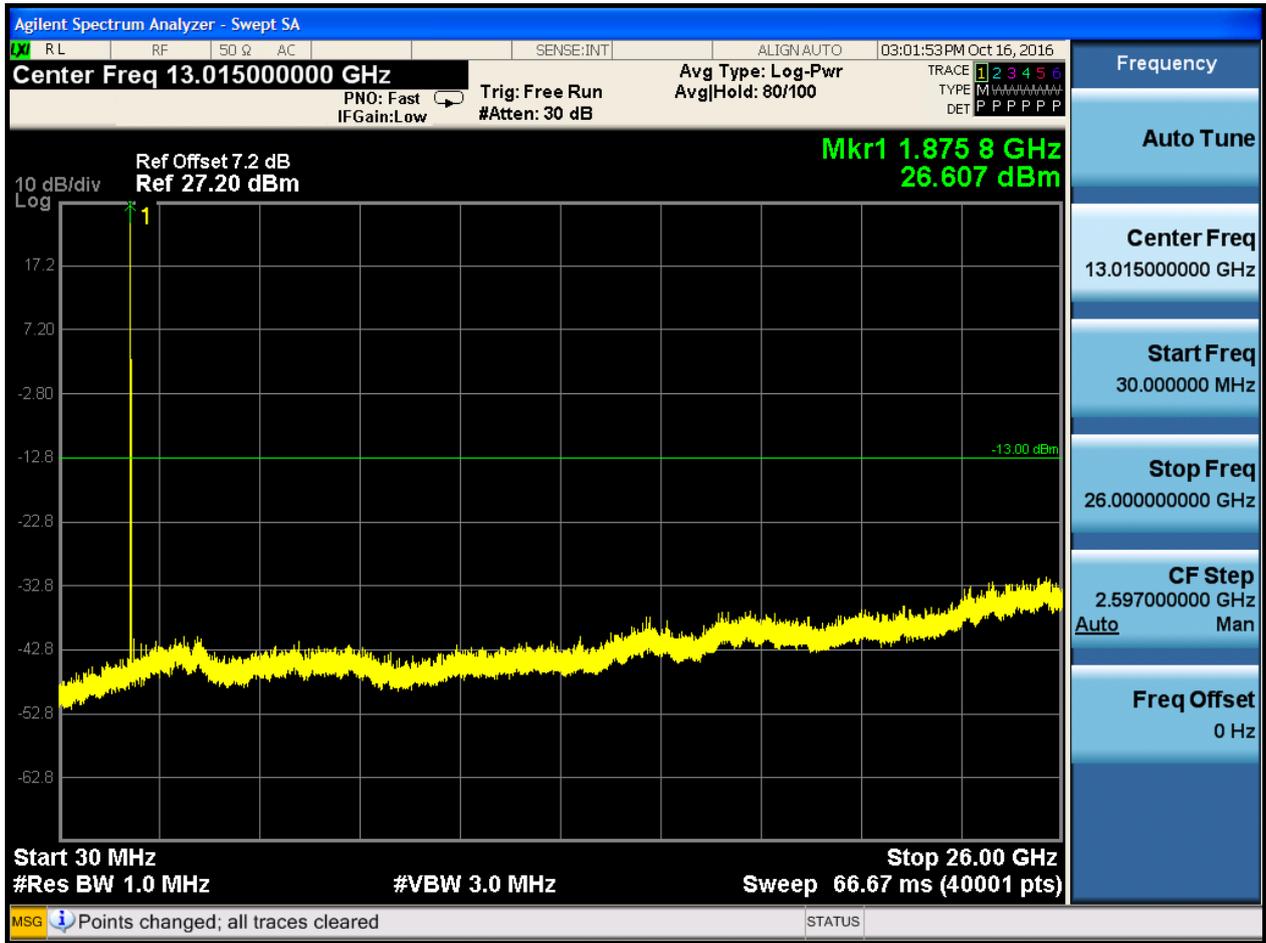
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





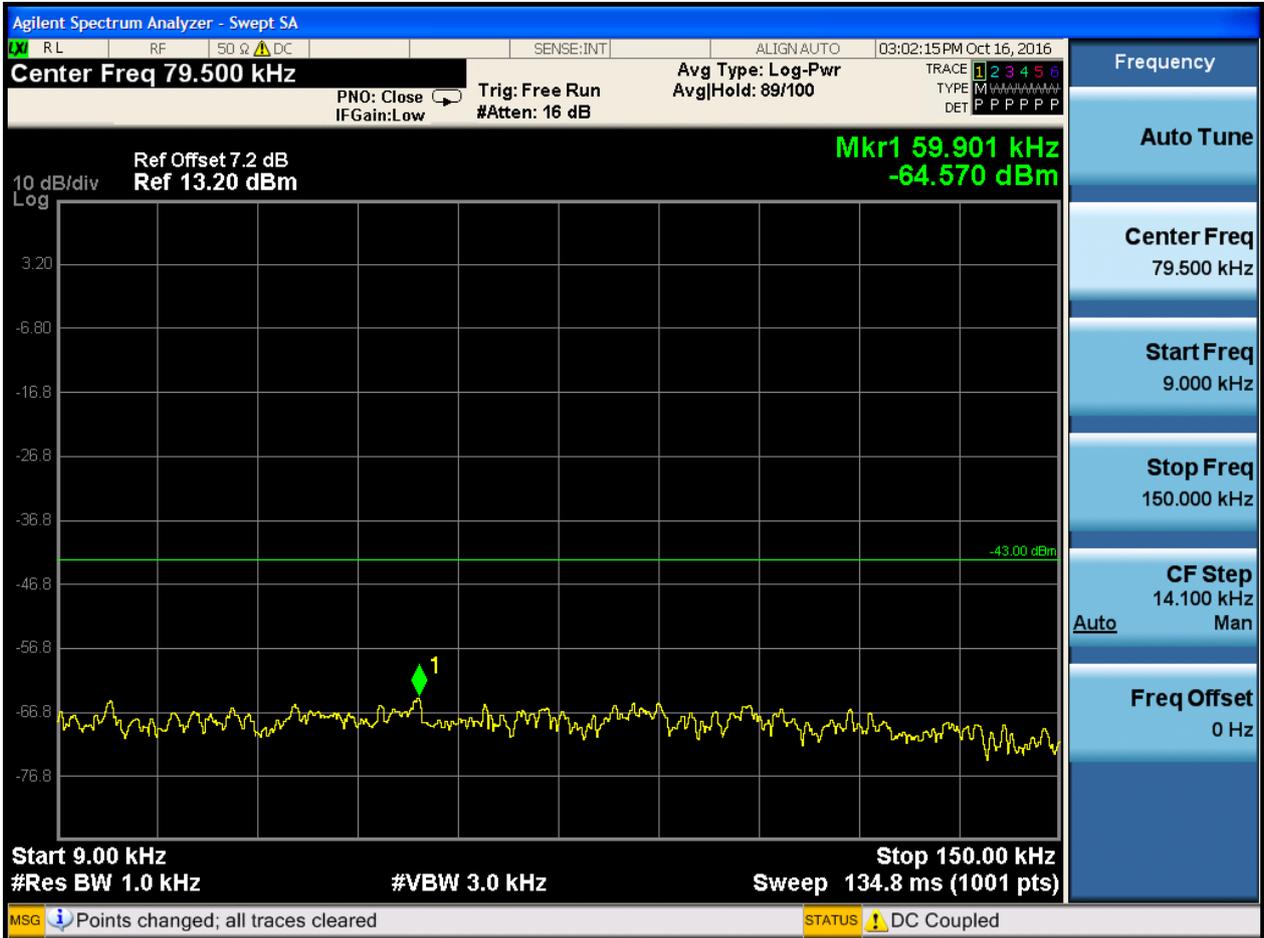




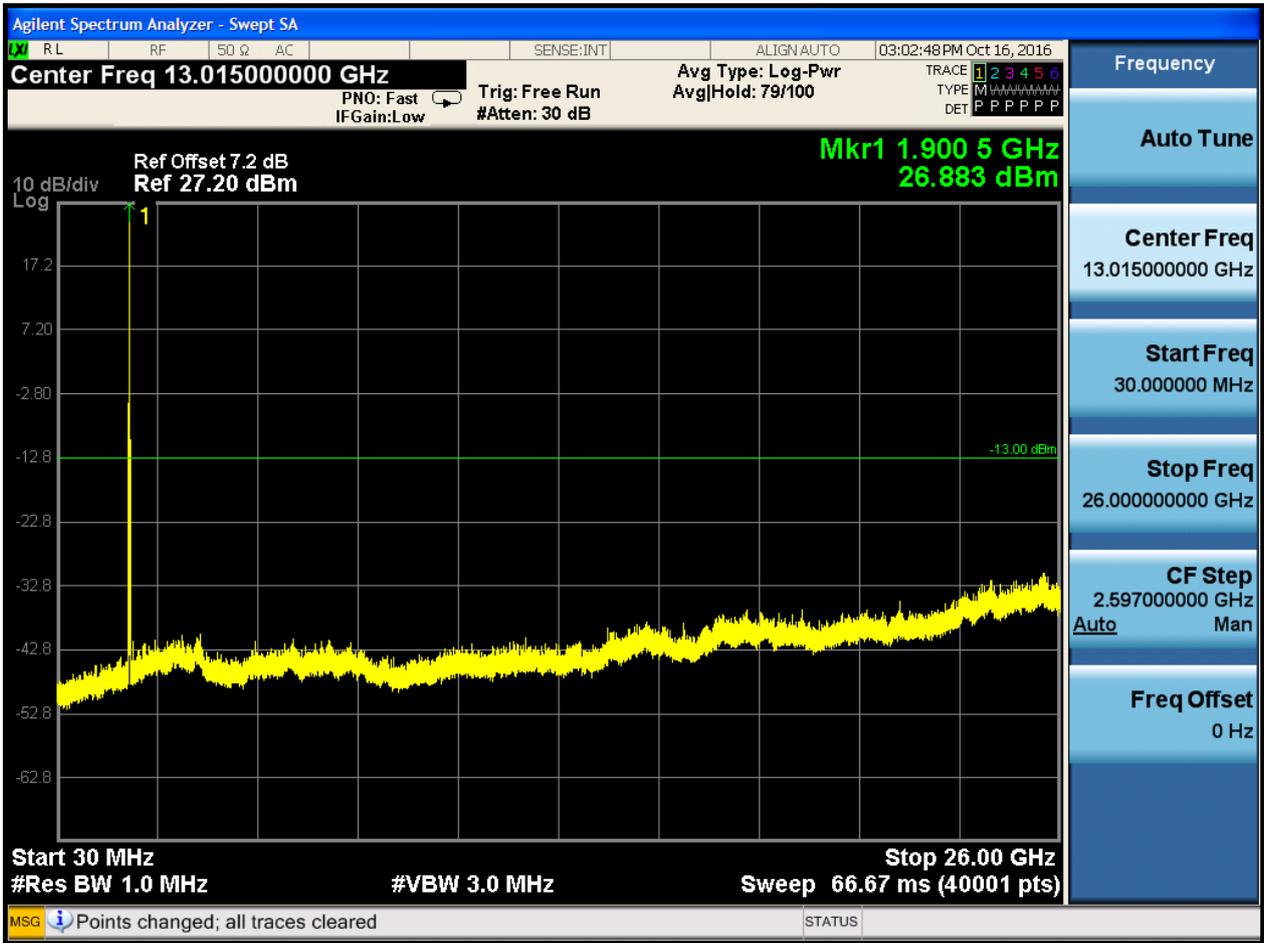


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0





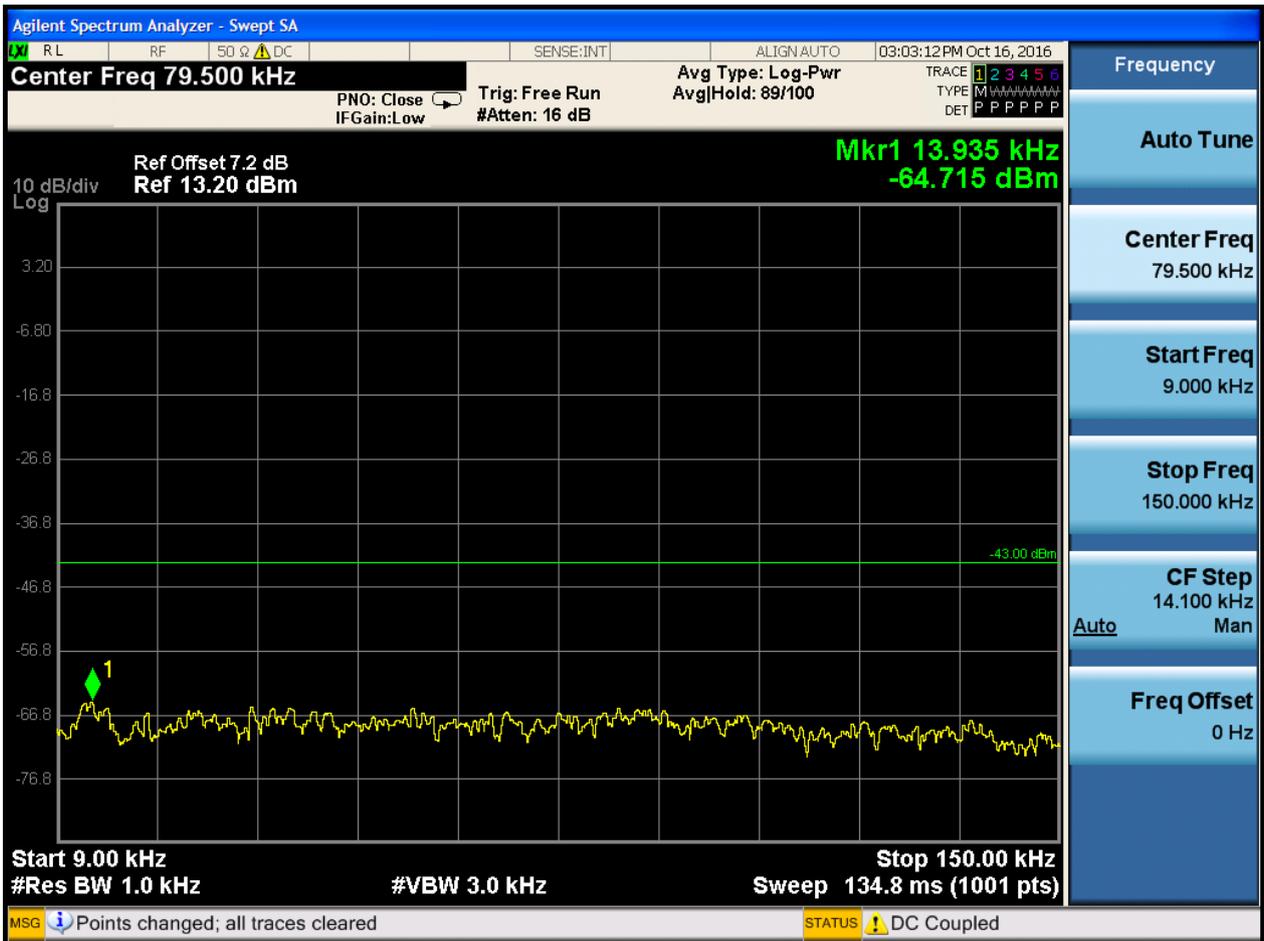


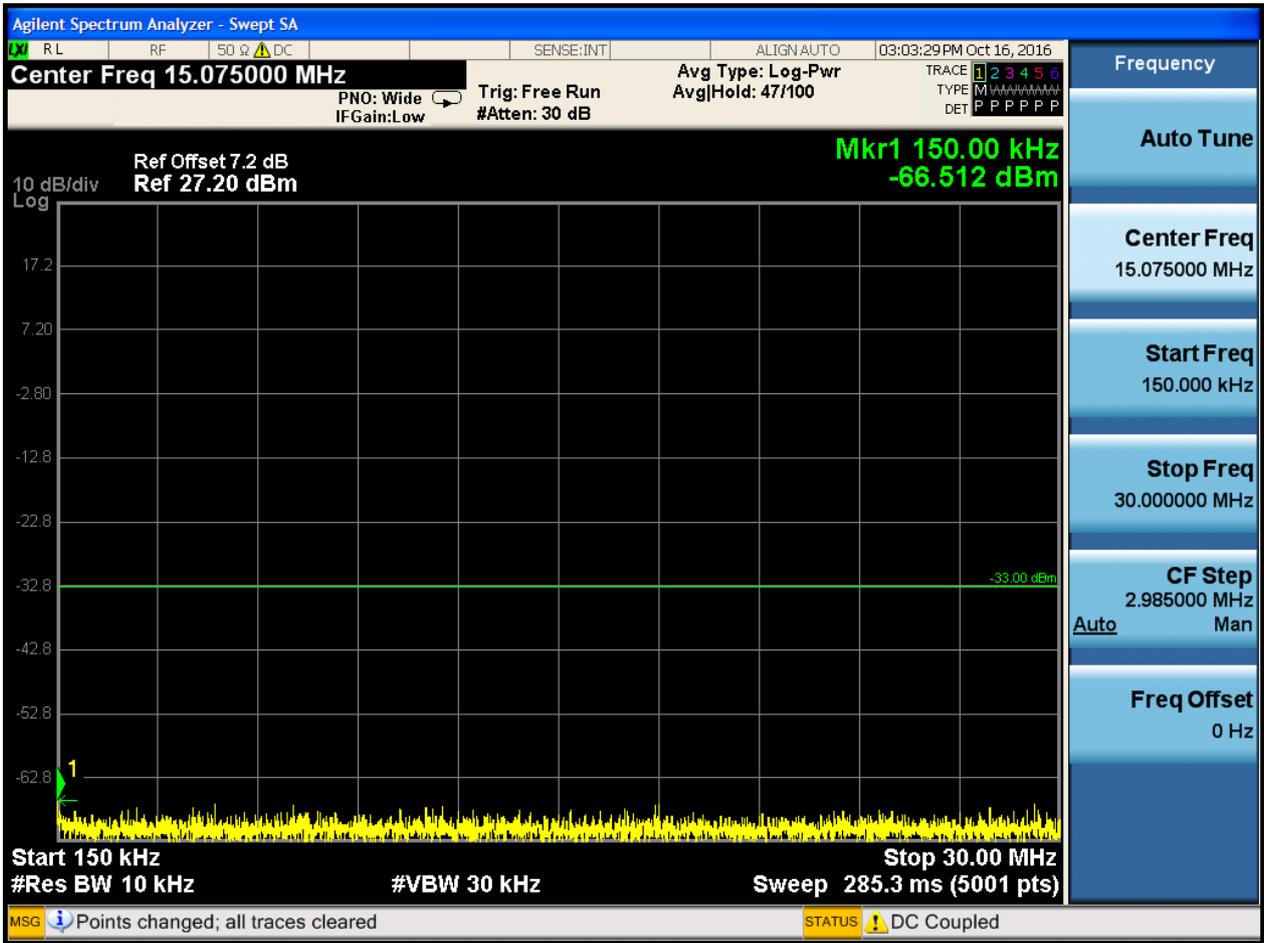


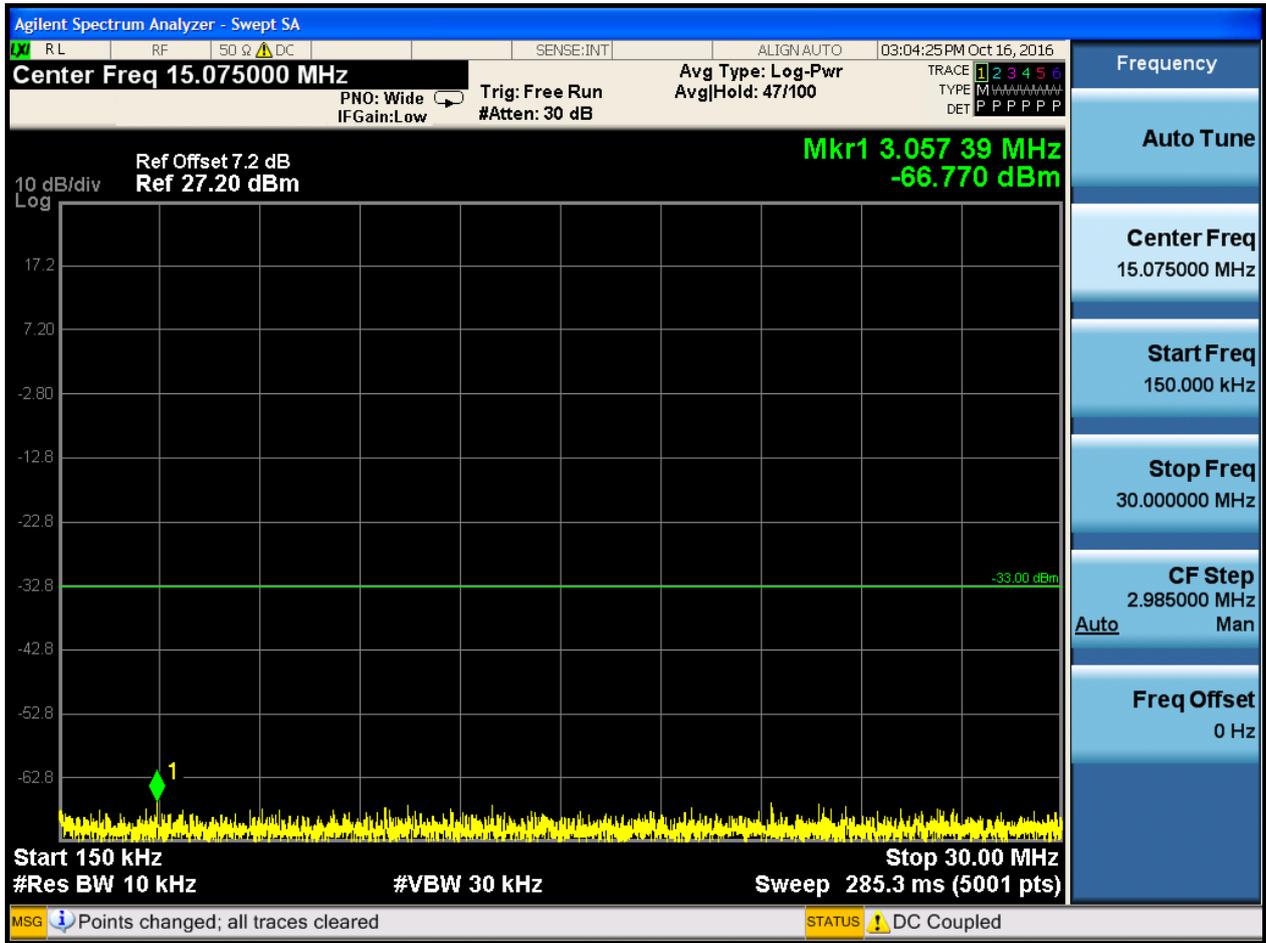
6.1.1.2.5 Test Bandwidth = 15

6.1.1.2.5.1 Test Channel = LCH

6.1.1.2.5.1.1 Test RB = RB1#0



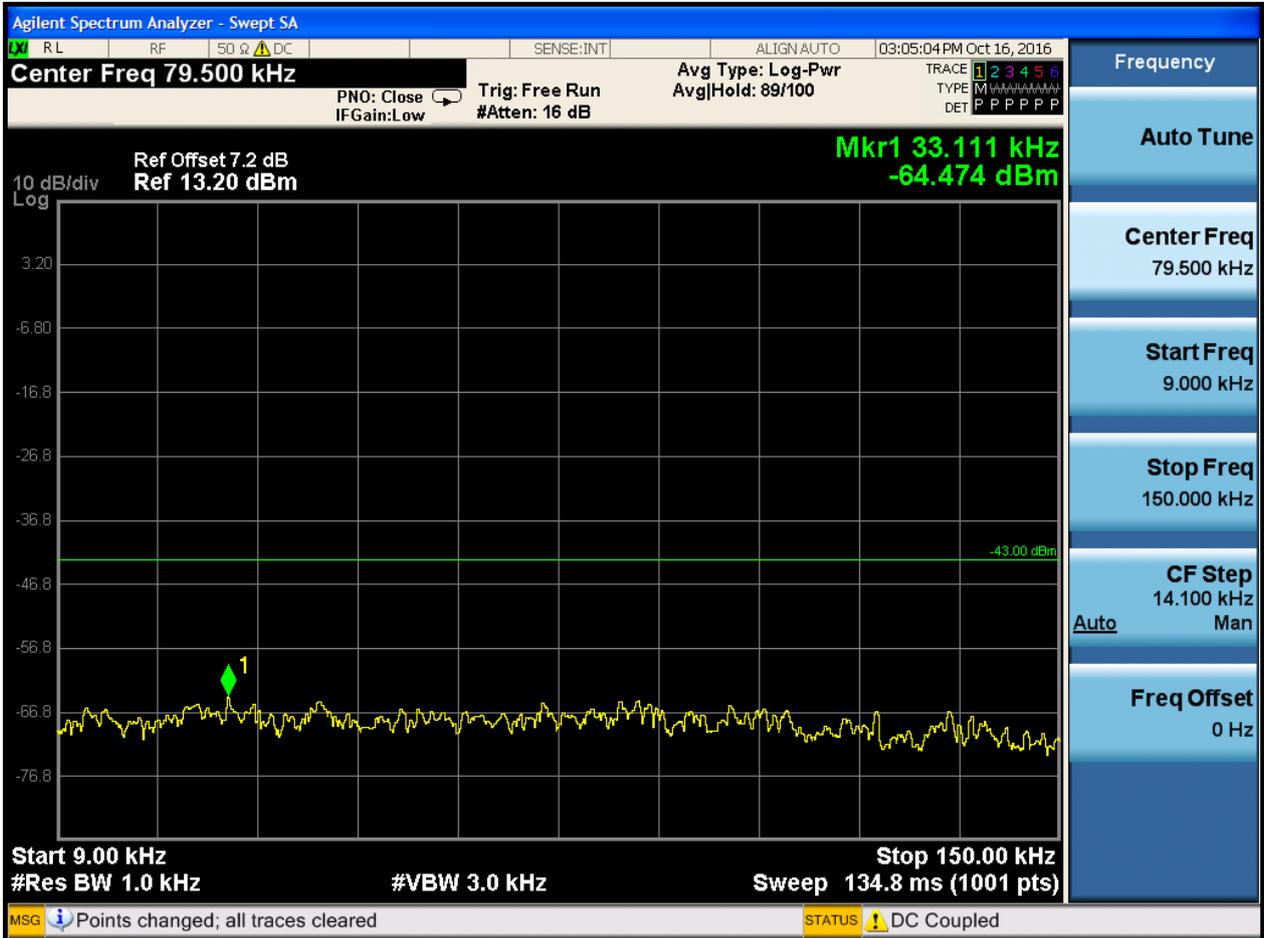






6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0

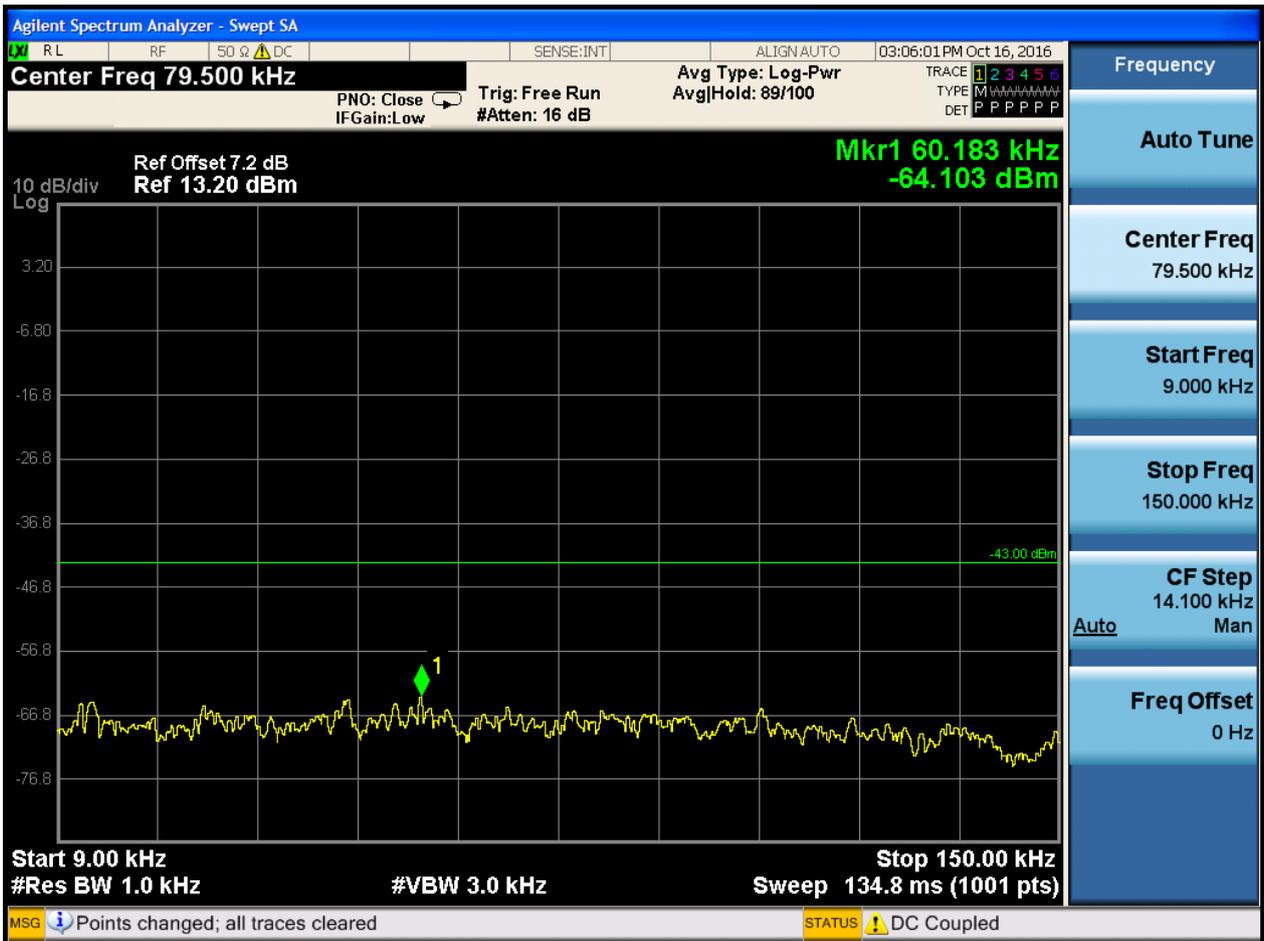


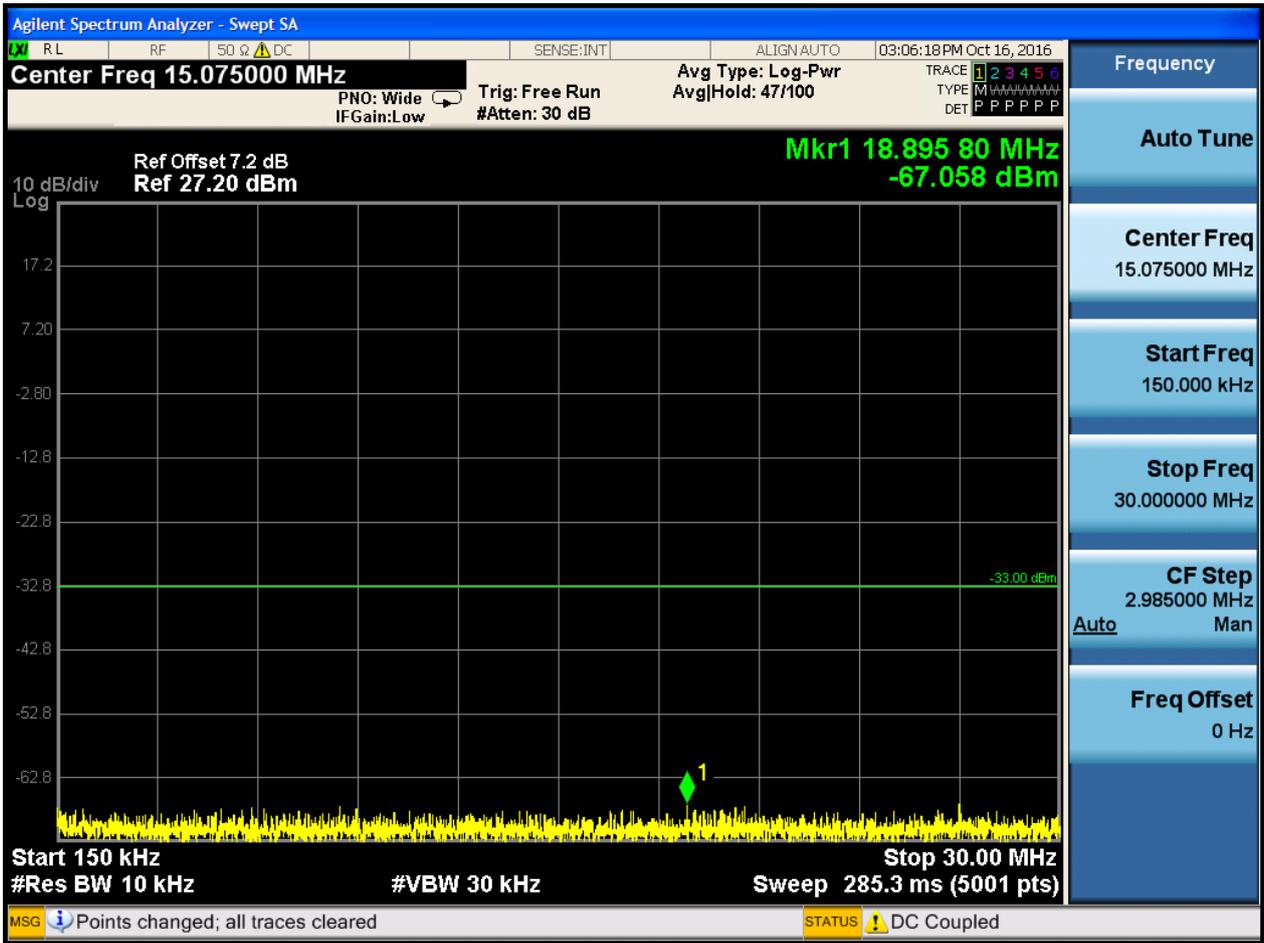


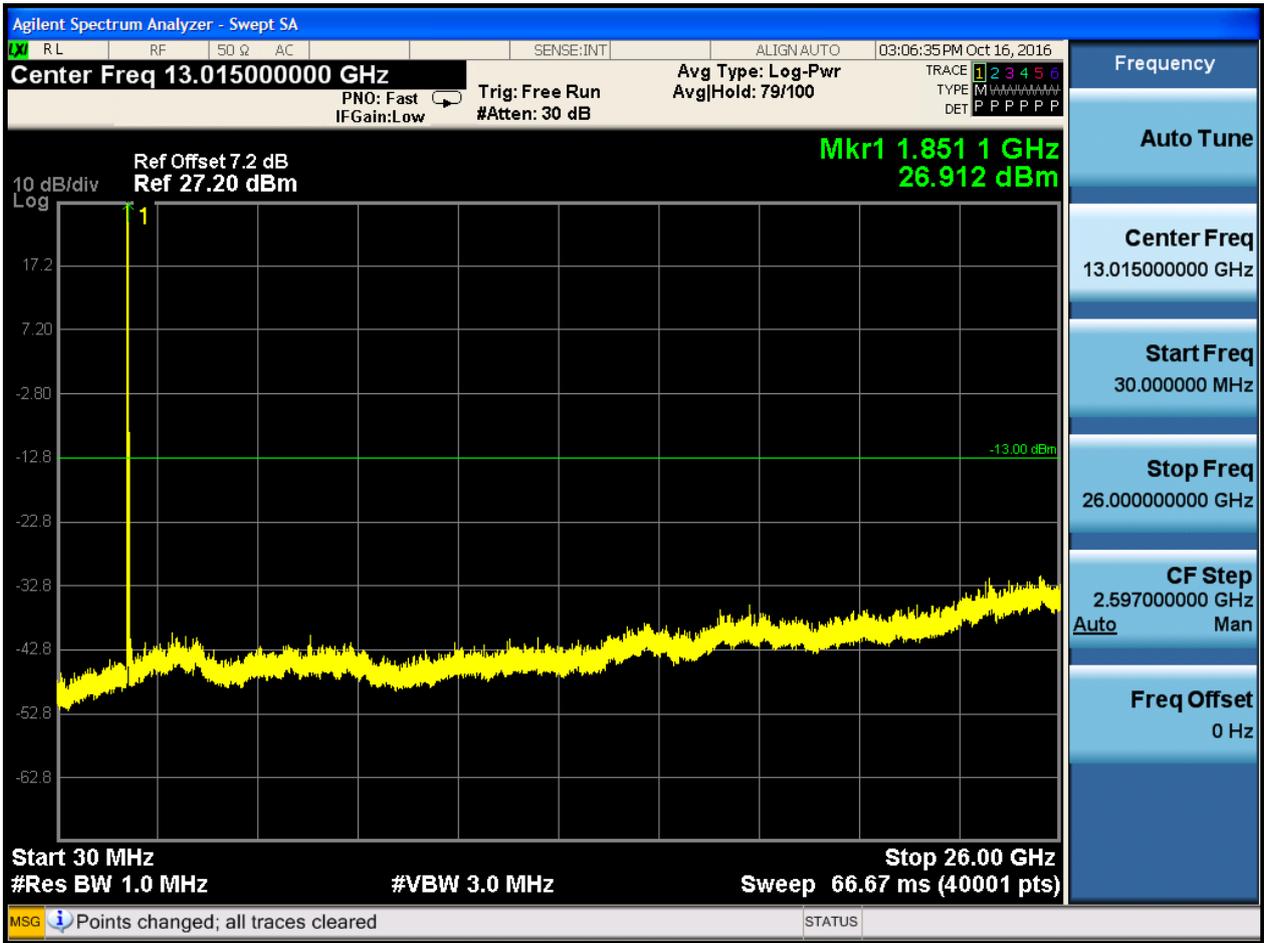
6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0



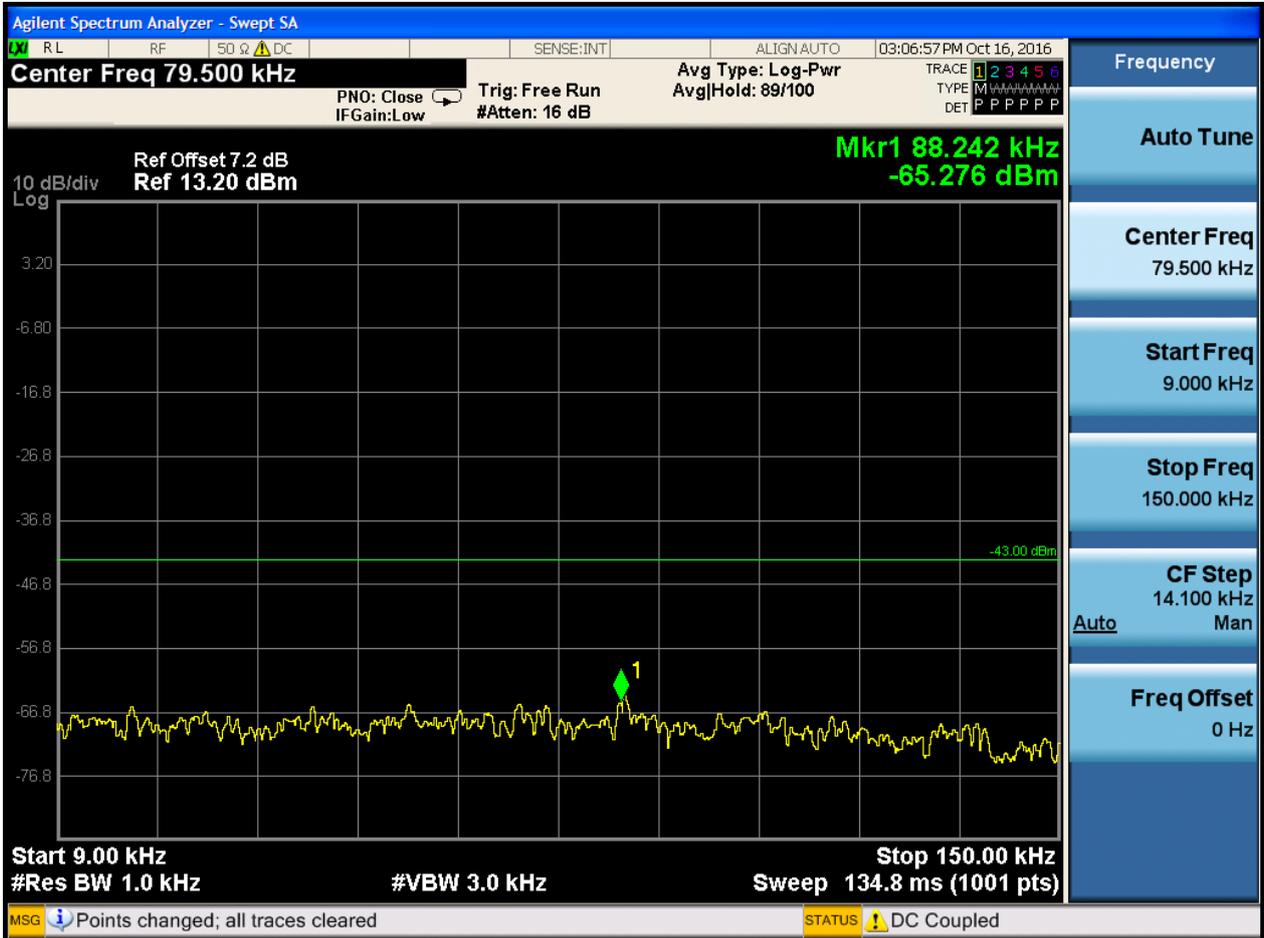


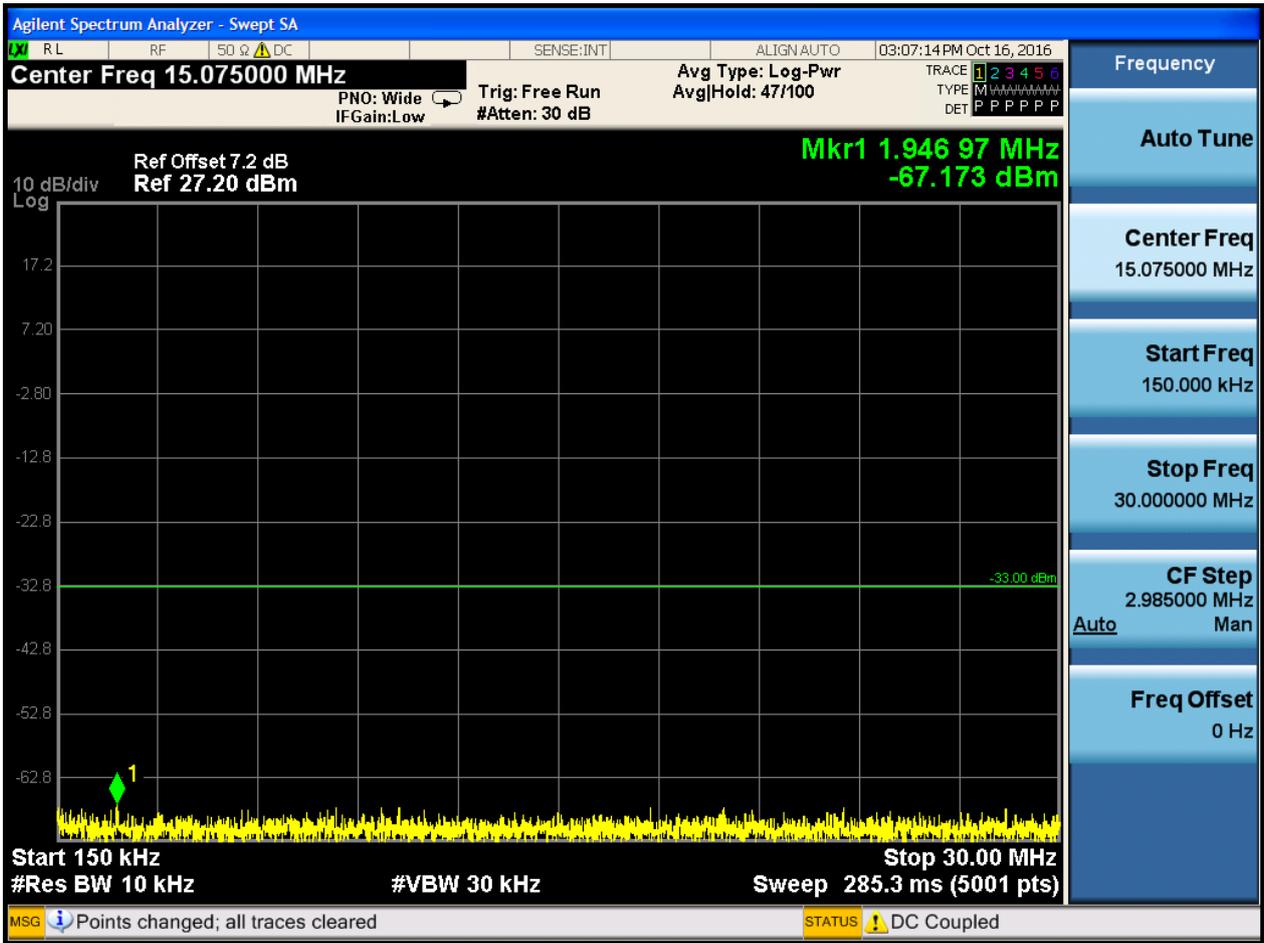


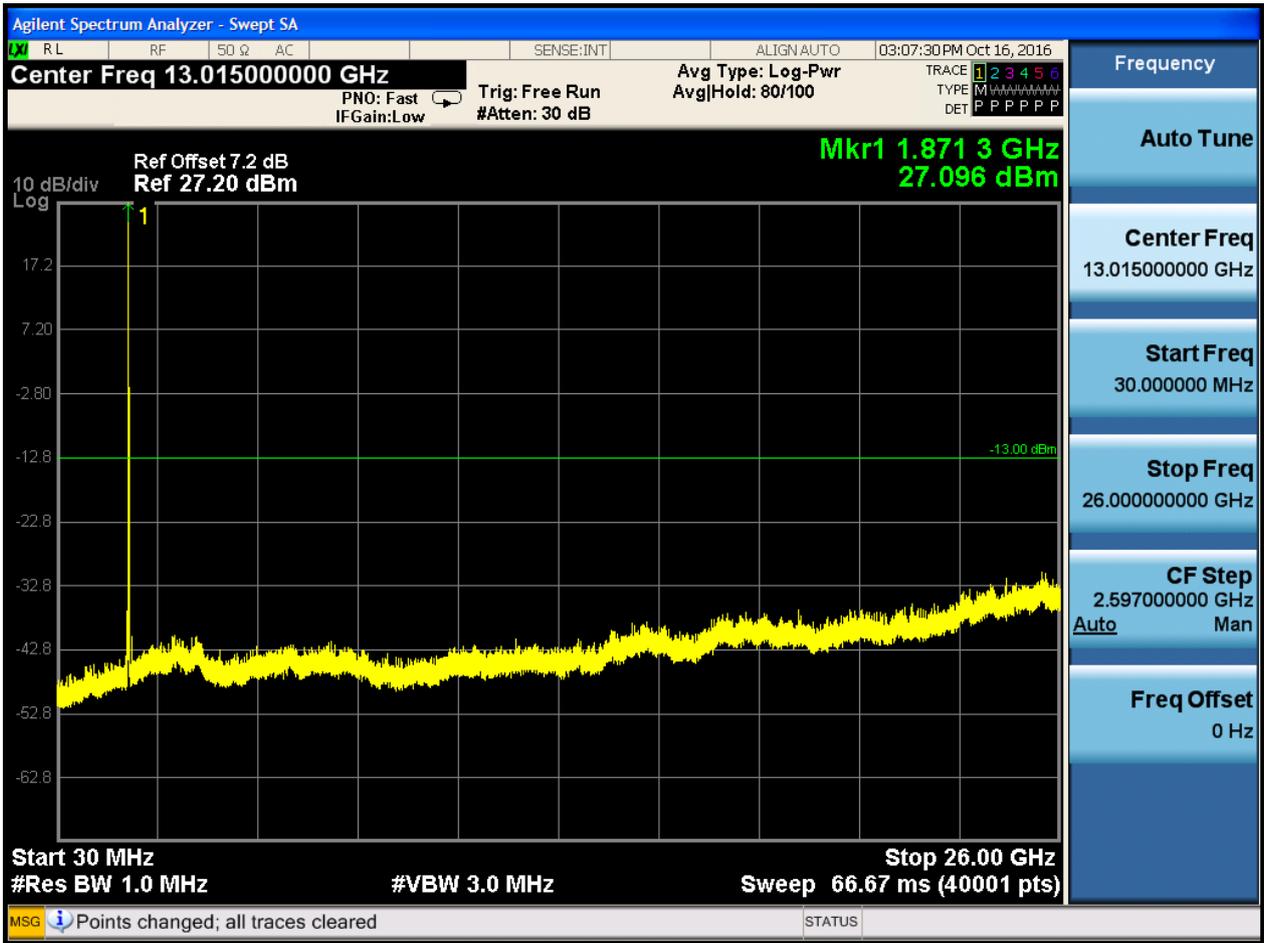


6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 Test RB = RB1#0



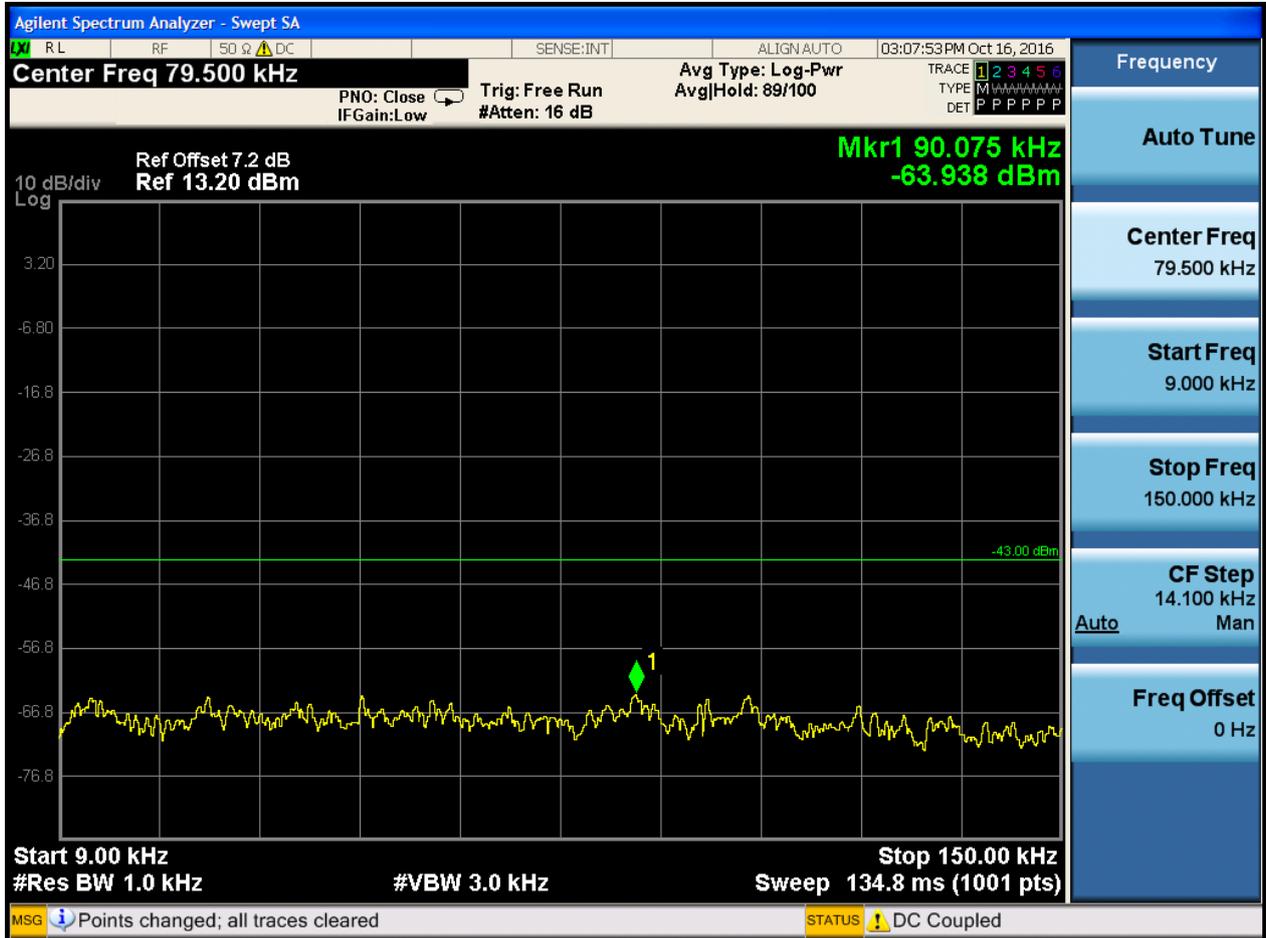






6.1.1.2.6.3 Test Channel = HCH

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.

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

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

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

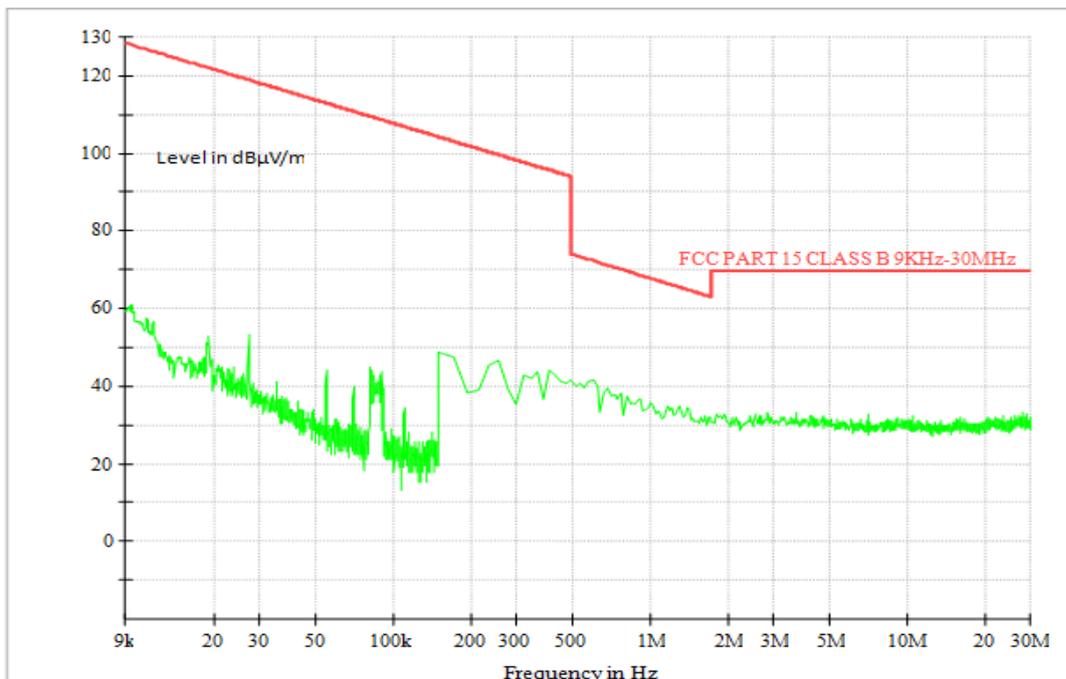
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

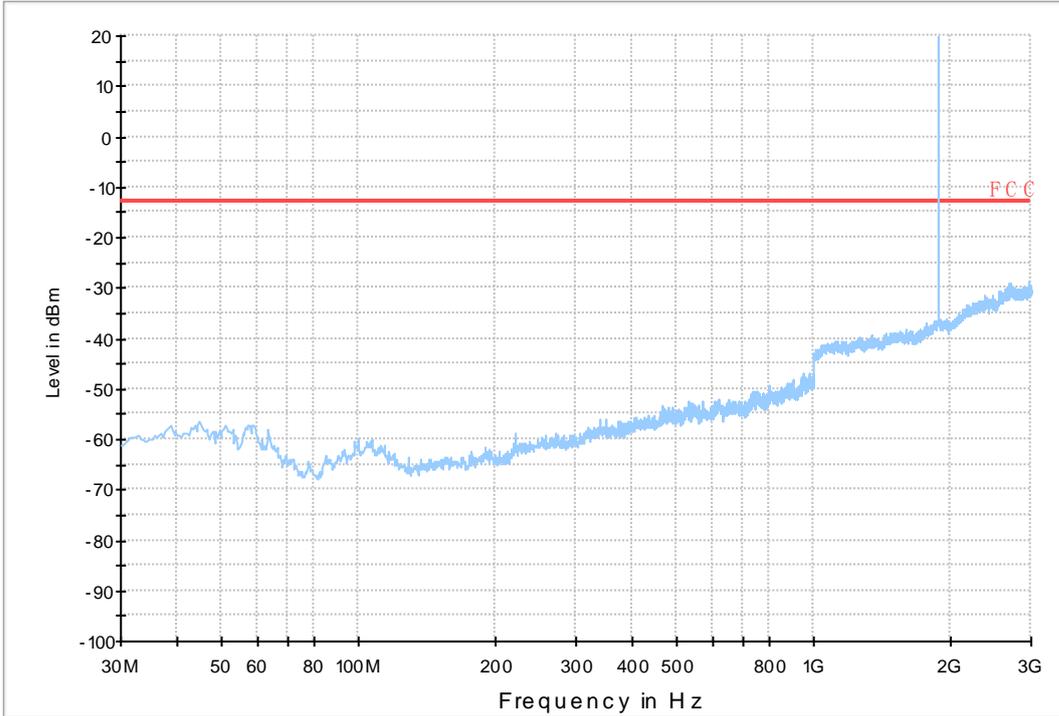
7.1 For LTE

7.1.1 Test Band = BAND2

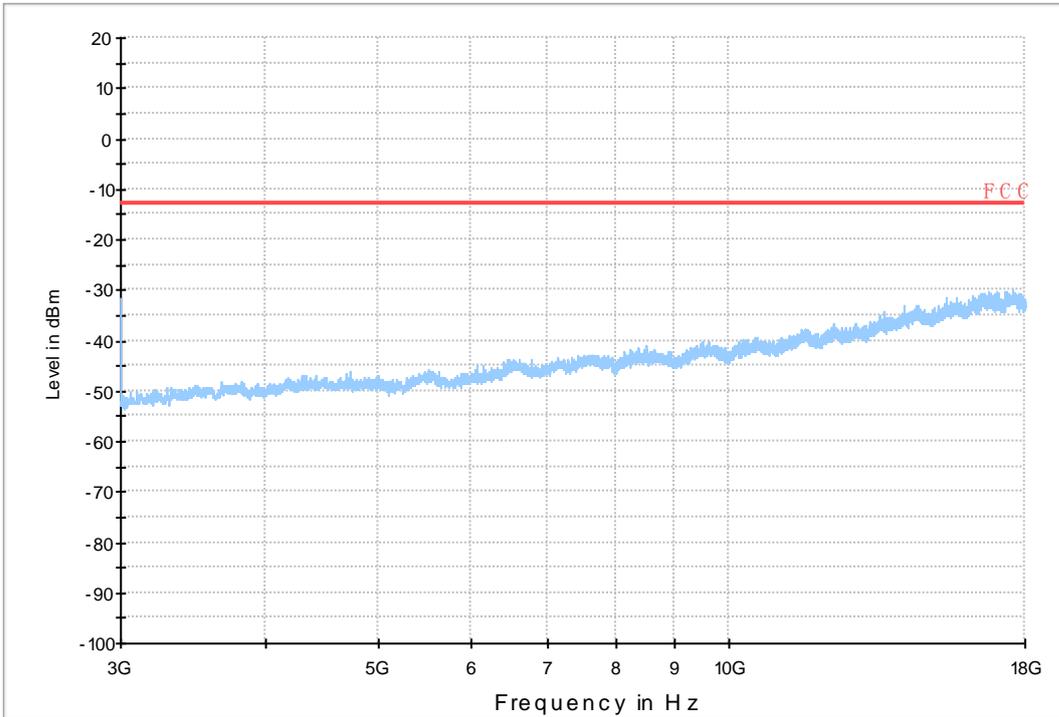
7.1.1.1 Test Bandwidth = 1.4

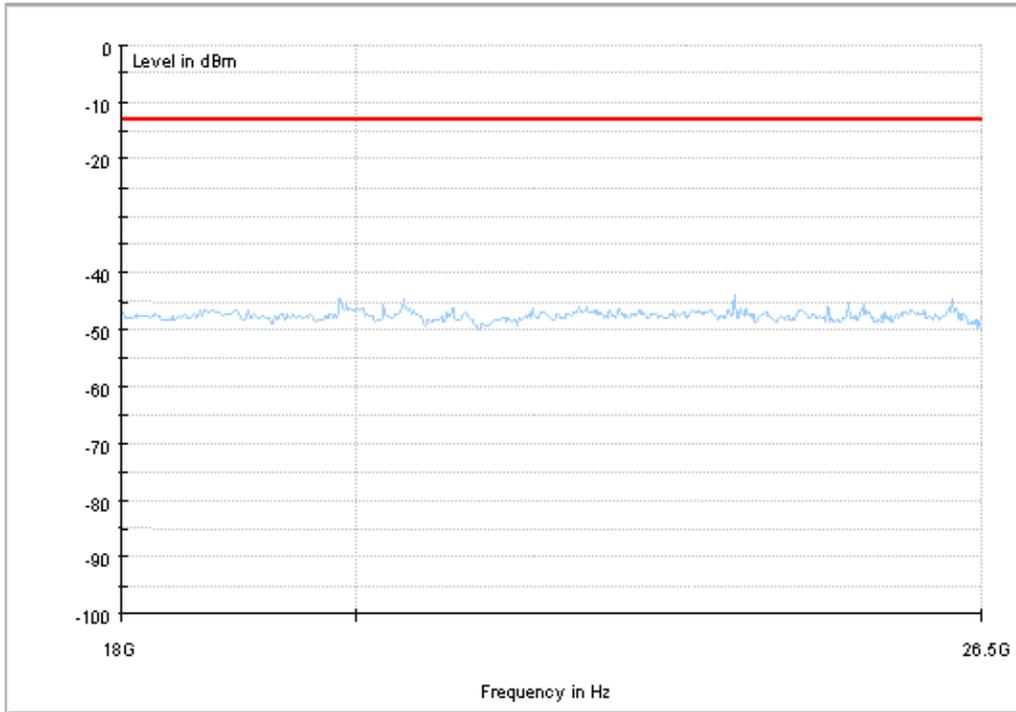


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

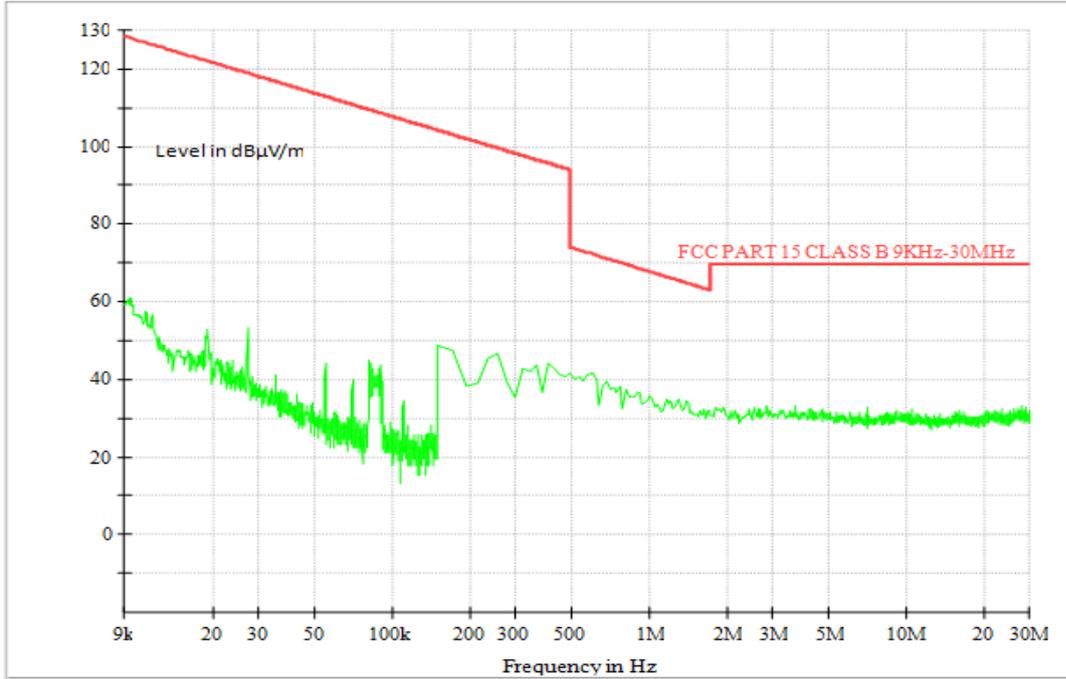


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

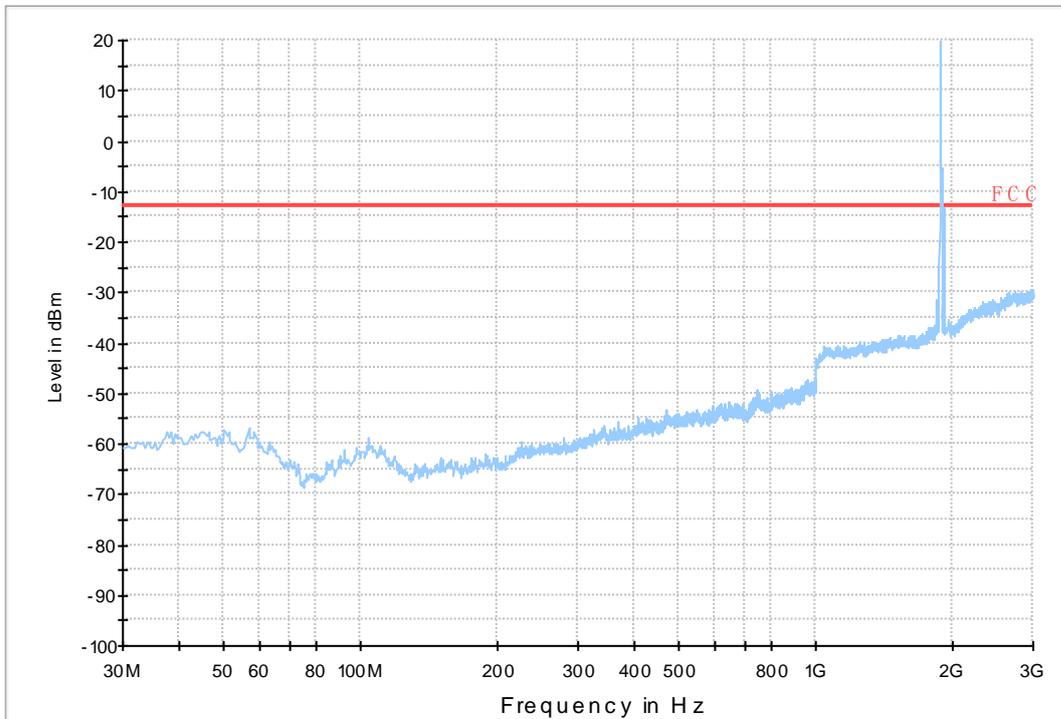




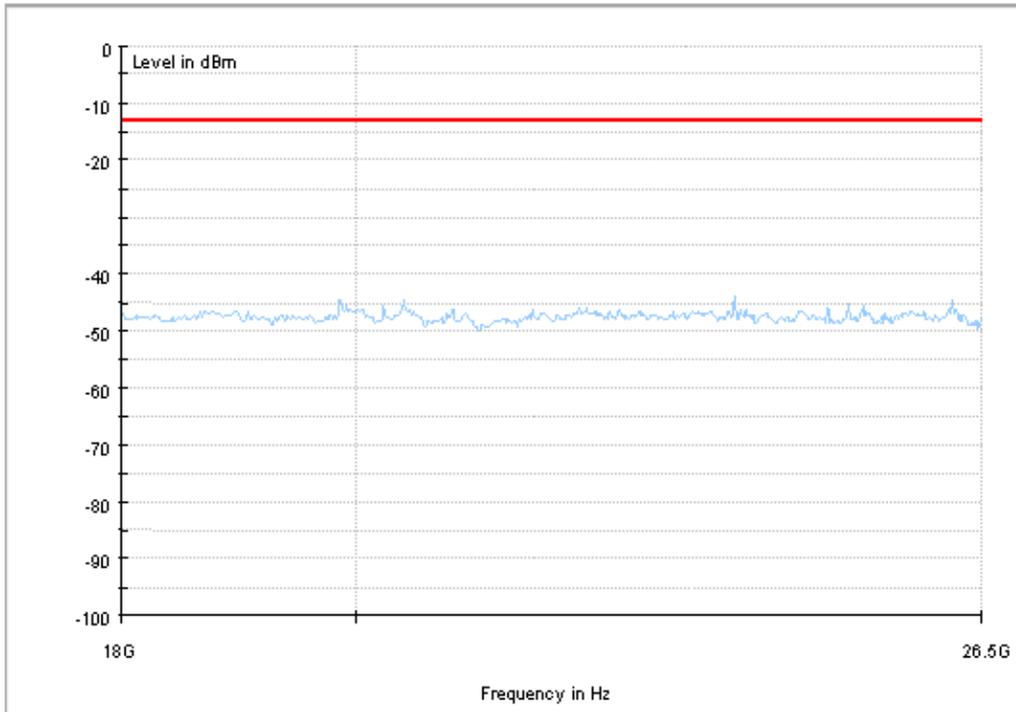
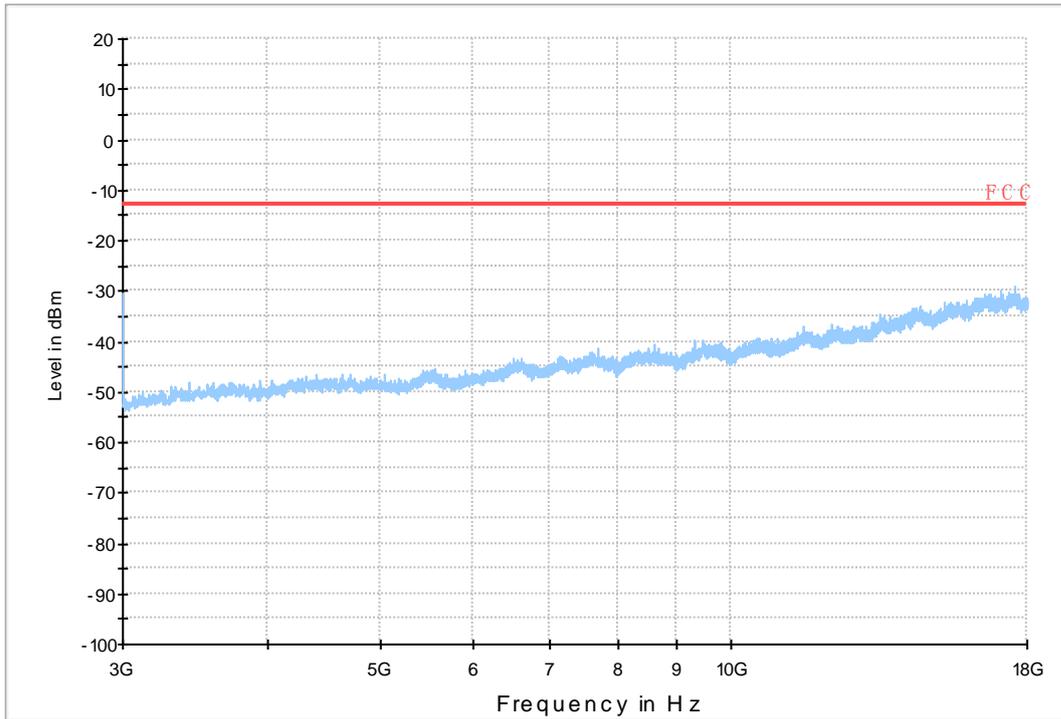
7.1.1.2 Test Bandwidth = 20



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 | -1.38 | -0.00231 | PASS |
| | | | | | VN | 2.56 | -0.00485 | PASS |
| | | | | | VH | -6.07 | -0.00572 | PASS |
| | | | MCH | TN | VL | -15.01 | -0.00798 | PASS |
| | | | | | VN | -5.97 | -0.00318 | PASS |
| | | | | | VH | 3.22 | 0.00171 | PASS |
| | | | HCH | TN | VL | -18.97 | -0.00994 | PASS |
| | | | | | VN | -12.79 | -0.0067 | PASS |
| | | | | | VH | -4.61 | -0.00241 | PASS |
| | | 3 | LCH | TN | VL | -7.11 | -0.00384 | PASS |
| | | | | | VN | -6.92 | -0.00374 | PASS |
| | | | | | VH | -5.39 | -0.00291 | PASS |
| | | | MCH | TN | VL | -3.99 | -0.00212 | PASS |
| | | | | | VN | -2.2 | -0.00117 | PASS |
| | | | | | VH | 5.95 | 0.00316 | PASS |
| | | | HCH | TN | VL | -13.9 | -0.00728 | PASS |
| | | | | | VN | -7.02 | -0.00368 | PASS |
| | | | | | VH | -0.56 | -0.00029 | PASS |
| | | 5 | LCH | TN | VL | -2.49 | -0.00134 | PASS |
| | | | | | VN | -2.89 | -0.00156 | PASS |
| | | | | | VH | -2.76 | -0.00149 | PASS |
| | | | MCH | TN | VL | -8.17 | -0.00435 | PASS |
| | | | | | VN | -2.89 | -0.00154 | PASS |
| | | | | | VH | -3.16 | -0.00168 | PASS |
| | | | HCH | TN | VL | -3.26 | -0.00171 | PASS |
| | | | | | VN | -6.12 | -0.00321 | PASS |
| | | | | | VH | -1.49 | -0.00078 | PASS |
| | | 10 | LCH | TN | VL | -3.88 | -0.00209 | PASS |
| | | | | | VN | -2.95 | -0.00159 | PASS |
| | | | | | VH | -0.72 | -0.00039 | PASS |
| MCH | TN | | VL | -0.29 | -0.00015 | PASS | | |
| | | | VN | -1.36 | -0.00072 | PASS | | |
| | | | VH | -0.8 | -0.00043 | PASS | | |

| | | | | | | | | | |
|--|--|---------|-----|-----|-------|----------|----------|----------|------|
| | | 15 | HCH | TN | VL | -3 | -0.00157 | PASS | |
| | | | | | VN | -1.47 | -0.00077 | PASS | |
| | | | | | VH | -2.2 | -0.00115 | PASS | |
| | | | LCH | TN | VL | -1.82 | -0.00098 | PASS | |
| | | | | | VN | -1.13 | -0.00061 | PASS | |
| | | | | | VH | -2.35 | -0.00127 | PASS | |
| | | | MCH | TN | VL | -2.63 | -0.0014 | PASS | |
| | | | | | VN | -1.26 | -0.00067 | PASS | |
| | | | | | VH | -3.81 | -0.00203 | PASS | |
| | | HCH | TN | VL | -1.87 | -0.00098 | PASS | | |
| | | | | VN | -0.6 | -0.00032 | PASS | | |
| | | | | VH | -4.61 | -0.00242 | PASS | | |
| | | 20 | LCH | TN | VL | -2.2 | -0.00118 | PASS | |
| | | | | | VN | -0.43 | -0.00023 | PASS | |
| | | | | | VH | -1.29 | -0.00069 | PASS | |
| | | | MCH | TN | VL | -2.27 | -0.00121 | PASS | |
| | | | | | VN | -1.53 | -0.00081 | PASS | |
| | | | | | VH | -2.56 | -0.00136 | PASS | |
| | | | HCH | TN | VL | -2.02 | -0.00106 | PASS | |
| | | | | | VN | -2.03 | -0.00107 | PASS | |
| | | | | | VH | 0.1 | 0.00005 | PASS | |
| | | LTE/TM2 | 1.4 | LCH | TN | VL | -0.99 | -0.00053 | PASS |
| | | | | | | VN | 3.28 | 0.00177 | PASS |
| | | | | | | VH | -4.75 | -0.00257 | PASS |
| | | | | MCH | TN | VL | -11.42 | -0.00607 | PASS |
| | | | | | | VN | 7.45 | 0.00396 | PASS |
| | | | | | | VH | -14.86 | -0.0079 | PASS |
| | | | | HCH | TN | VL | -21.73 | -0.01138 | PASS |
| | | | | | | VN | -7.01 | -0.00367 | PASS |
| | | | | | | VH | -2.43 | -0.00127 | PASS |
| | | | 3 | LCH | TN | VL | -0.29 | -0.00016 | PASS |
| | | | | | | VN | -0.2 | -0.00011 | PASS |
| | | | | | | VH | -12.13 | -0.00655 | PASS |
| | | | | MCH | TN | VL | 9.46 | 0.00503 | PASS |
| | | | | | | VN | -6.31 | -0.00336 | PASS |
| | | | | | | VH | -3.16 | -0.00168 | PASS |
| | | | HCH | TN | VL | -1.47 | -0.00077 | PASS | |
| | | | | | VN | 4.72 | 0.00247 | PASS | |
| | | | | | VH | -5.88 | -0.00308 | PASS | |
| | | 5 | LCH | TN | VL | 0.94 | 0.00051 | PASS | |
| | | | | | VN | -2.89 | -0.00156 | PASS | |

| | | | | | | | | | |
|--|--|----|-----|-----|------|---------|----------|----------|------|
| | | | | VH | 2.76 | 0.00149 | PASS | | |
| | | | MCH | TN | VL | -1.63 | -0.00087 | PASS | |
| | | | | | VN | -1.03 | -0.00055 | PASS | |
| | | | | | VH | -0.82 | -0.00044 | PASS | |
| | | | HCH | TN | VL | -2.37 | -0.00124 | PASS | |
| | | | | | VN | -1.79 | -0.00094 | PASS | |
| | | | | | VH | -0.41 | -0.00021 | PASS | |
| | | 10 | LCH | TN | VL | -3.22 | -0.00174 | PASS | |
| | | | | | | VN | -1.29 | -0.0007 | PASS |
| | | | | | | VH | -2.96 | -0.0016 | PASS |
| | | | | MCH | TN | VL | -0.21 | -0.00011 | PASS |
| | | | | | | VN | 2.63 | 0.0014 | PASS |
| | | | | | | VH | -2.53 | -0.00135 | PASS |
| | | | | HCH | TN | VL | -2.69 | -0.00141 | PASS |
| | | | | | | VN | -2.05 | -0.00108 | PASS |
| | | | | | | VH | 1.12 | 0.00059 | PASS |
| | | 15 | LCH | TN | VL | -0.53 | -0.00029 | PASS | |
| | | | | | | VN | -1.36 | -0.00073 | PASS |
| | | | | | | VH | -1.07 | -0.00058 | PASS |
| | | | | MCH | TN | VL | 1.26 | 0.00067 | PASS |
| | | | | | | VN | -1.75 | -0.00093 | PASS |
| | | | | | | VH | -0.14 | -0.00007 | PASS |
| | | | | HCH | TN | VL | -1.06 | -0.00056 | PASS |
| | | | | | | VN | -0.83 | -0.00044 | PASS |
| | | | | | | VH | -0.97 | -0.00051 | PASS |
| | | 20 | LCH | TN | VL | -0.47 | -0.00025 | PASS | |
| | | | | | | VN | 0.46 | 0.00025 | PASS |
| | | | | | | VH | -1 | -0.00054 | PASS |
| | | | | MCH | TN | VL | -2.45 | -0.0013 | PASS |
| | | | | | | VN | -0.73 | -0.00039 | PASS |
| | | | | | | VH | 0.23 | 0.00012 | PASS |
| | | | | HCH | TN | VL | 0.07 | 0.00004 | PASS |
| | | | | | | VN | -0.86 | -0.00045 | PASS |
| | | | | | | VH | -0.79 | -0.00042 | 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 | -0.37 | -0.00039 | PASS |
| | | | | | -20 | 1.25 | 0.00048 | PASS |
| | | | | | -10 | 0.66 | 0.00016 | PASS |
| | | | | | 0 | 0.92 | 0.0003 | PASS |
| | | | | | 10 | 0.26 | -0.00005 | PASS |
| | | | | | 20 | 0.39 | 0.00002 | PASS |
| | | | | | 30 | 0.88 | 0.00028 | PASS |
| | | | | | 40 | -0.1 | -0.00025 | PASS |
| | | | | | 50 | 0.42 | 0.00003 | PASS |
| | | | MCH | VN | -30 | 0.08 | -0.00015 | PASS |
| | | | | | -20 | -1.53 | -0.00101 | PASS |
| | | | | | -10 | -0.48 | -0.00045 | PASS |
| | | | | | 0 | -1.03 | -0.00074 | PASS |
| | | | | | 10 | -0.24 | -0.00032 | PASS |
| | | | | | 20 | -1.44 | -0.00096 | PASS |
| | | | | | 30 | -0.45 | -0.00043 | PASS |
| | | | | | 40 | 0.5 | 0.00007 | PASS |
| | | | | | 50 | -0.57 | -0.0005 | PASS |
| | | HCH | VN | -30 | -0.51 | -0.00046 | PASS | |
| | | | | -20 | -0.47 | -0.00044 | PASS | |
| | | | | -10 | -1.2 | -0.00082 | PASS | |
| | | | | 0 | 0.38 | 0 | PASS | |
| | | | | 10 | -0.4 | -0.0004 | PASS | |
| | | | | 20 | 0.12 | -0.00013 | PASS | |
| | | | | 30 | -1.05 | -0.00074 | PASS | |
| | | | | 40 | -0.7 | -0.00056 | PASS | |
| | | | | 50 | -1.45 | -0.00095 | PASS | |
| | | 3 | LCH | VN | -30 | -5.86 | -0.00338 | PASS |
| | | | | | -20 | 8.18 | 0.0042 | PASS |
| | | | | | -10 | -1.34 | -0.00094 | PASS |
| | | | | | 0 | 9.37 | 0.00484 | PASS |
| | | | | | 10 | -2.17 | -0.00139 | PASS |
| | | | | | 20 | -0.41 | -0.00044 | PASS |
| 30 | -0.4 | | | | -0.00043 | PASS | | |
| 40 | 0.37 | | | | -0.00002 | PASS | | |
| 50 | -1.54 | | | | -0.00105 | PASS | | |
| MCH | VN | | -30 | 1.39 | 0.00052 | PASS | | |

| | | | | | | | | |
|--|--|--|-----|----|-----|-------|----------|------|
| | | | | | -20 | -6.64 | -0.00375 | PASS |
| | | | | | -10 | -1.63 | -0.00108 | PASS |
| | | | | | 0 | -3 | -0.00181 | PASS |
| | | | | | 10 | -0.96 | -0.00073 | PASS |
| | | | | | 20 | 1.6 | 0.00064 | PASS |
| | | | | | 30 | 1.56 | 0.00061 | PASS |
| | | | | | 40 | 2.56 | 0.00115 | PASS |
| | | | | | 50 | -2.69 | -0.00165 | PASS |
| | | | HCH | VN | -30 | -1.84 | -0.00118 | PASS |
| | | | HCH | VN | -20 | -1.64 | -0.00108 | PASS |
| | | | HCH | VN | -10 | -5.99 | -0.00335 | PASS |
| | | | HCH | VN | 0 | -0.61 | -0.00054 | PASS |
| | | | HCH | VN | 10 | -2.43 | -0.00149 | PASS |
| | | | HCH | VN | 20 | -4.92 | -0.00279 | PASS |
| | | | HCH | VN | 30 | -2.36 | -0.00145 | PASS |
| | | | HCH | VN | 40 | 2.02 | 0.00084 | PASS |
| | | | HCH | VN | 50 | -0.36 | -0.0004 | PASS |
| | | | LCH | VN | -30 | -4.48 | -0.00263 | PASS |
| | | | LCH | VN | -20 | 7.9 | 0.00405 | PASS |
| | | | LCH | VN | -10 | 1.66 | 0.00073 | PASS |
| | | | LCH | VN | 0 | -2.31 | -0.00141 | PASS |
| | | | LCH | VN | 10 | -1.03 | -0.00072 | PASS |
| | | | LCH | VN | 20 | -5.3 | -0.00303 | PASS |
| | | | LCH | VN | 30 | -0.49 | -0.00043 | PASS |
| | | | LCH | VN | 40 | -2.06 | -0.00128 | PASS |
| | | | LCH | VN | 50 | 4.6 | 0.00232 | PASS |
| | | | MCH | VN | -30 | 2.74 | 0.00129 | PASS |
| | | | MCH | VN | -20 | -4.47 | -0.00255 | PASS |
| | | | MCH | VN | -10 | -0.9 | -0.00065 | PASS |
| | | | MCH | VN | 0 | -5.07 | -0.00286 | PASS |
| | | | MCH | VN | 10 | -9.14 | -0.00503 | PASS |
| | | | MCH | VN | 20 | -3.42 | -0.00199 | PASS |
| | | | MCH | VN | 30 | 4.72 | 0.00234 | PASS |
| | | | MCH | VN | 40 | -1.63 | -0.00104 | PASS |
| | | | MCH | VN | 50 | -3.87 | -0.00223 | PASS |
| | | | HCH | VN | -30 | 0.43 | 0.00006 | PASS |
| | | | HCH | VN | -20 | -3.45 | -0.00198 | PASS |
| | | | HCH | VN | -10 | -3.38 | -0.00194 | PASS |
| | | | HCH | VN | 0 | -4.79 | -0.00268 | PASS |
| | | | HCH | VN | 10 | -7.57 | -0.00414 | PASS |
| | | | HCH | VN | 20 | -9.49 | -0.00514 | PASS |



| | | | | | | | | |
|--|--|----|-----|----|-------|----------|----------|------|
| | | | | 30 | -6.3 | -0.00347 | PASS | |
| | | | | 40 | -2.51 | -0.00148 | PASS | |
| | | | | 50 | -5.54 | -0.00307 | PASS | |
| | | 10 | LCH | VN | -30 | -9.4 | -0.00511 | PASS |
| | | | | | -20 | 18.28 | 0.00982 | PASS |
| | | | | | -10 | 10.77 | 0.00577 | PASS |
| | | | | | 0 | 6.77 | 0.00361 | PASS |
| | | | | | 10 | 1.56 | 0.0008 | PASS |
| | | | | | 20 | 2.17 | 0.00113 | PASS |
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| | | 10 | MCH | VN | -30 | -11.87 | -0.00635 | PASS |
| | | | | | -20 | -7.67 | -0.00412 | PASS |
| | | | | | -10 | 5.71 | 0.003 | PASS |
| | | | | | 0 | -4.63 | -0.0025 | PASS |
| | | | | | 10 | -18.95 | -0.01012 | PASS |
| | | | | | 20 | -0.8 | -0.00047 | PASS |
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| | | 15 | LCH | VN | -30 | -4.82 | -0.00263 | PASS |
| | | | | | -20 | -5.45 | -0.00297 | PASS |
| | | | | | -10 | -3.82 | -0.0021 | PASS |
| | | | | | 0 | -4.21 | -0.0023 | PASS |
| | | | | | 10 | -2.13 | -0.00119 | PASS |
| | | | | | 20 | -4.73 | -0.00258 | PASS |
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| | | | MCH | VN | -30 | -31.04 | -0.01655 | PASS |
| | | | | | -20 | -2.8 | -0.00153 | PASS |

| | | | | | | | | |
|--|--|--|-----|----|-----|---------|----------|------|
| | | | | | -10 | -29.04 | -0.01549 | PASS |
| | | | | | 0 | -76.93 | -0.04096 | PASS |
| | | | | | 10 | -18.02 | -0.00963 | PASS |
| | | | | | 20 | 44.2 | 0.02347 | PASS |
| | | | | | 30 | -23.77 | -0.01268 | PASS |
| | | | | | 40 | -85.33 | -0.04543 | PASS |
| | | | | | 50 | -182.39 | -0.09706 | PASS |
| | | | HCH | VN | -30 | -1.62 | -0.00089 | PASS |
| | | | HCH | VN | -20 | -3.59 | -0.00193 | PASS |
| | | | HCH | VN | -10 | -1.02 | -0.00058 | PASS |
| | | | HCH | VN | 0 | -1.12 | -0.00063 | PASS |
| | | | HCH | VN | 10 | -1.8 | -0.00099 | PASS |
| | | | HCH | VN | 20 | -4.26 | -0.00228 | PASS |
| | | | HCH | VN | 30 | -2.4 | -0.0013 | PASS |
| | | | HCH | VN | 40 | -4.16 | -0.00223 | PASS |
| | | | HCH | VN | 50 | -4.99 | -0.00267 | PASS |
| | | | LCH | VN | -30 | 20.06 | 0.01075 | PASS |
| | | | LCH | VN | -20 | 5.02 | 0.00266 | PASS |
| | | | LCH | VN | -10 | -12.14 | -0.00657 | PASS |
| | | | LCH | VN | 0 | -1.76 | -0.00098 | PASS |
| | | | LCH | VN | 10 | 13.59 | 0.00727 | PASS |
| | | | LCH | VN | 20 | -46.1 | -0.02482 | PASS |
| | | | LCH | VN | 30 | 4.19 | 0.00221 | PASS |
| | | | LCH | VN | 40 | -67.25 | -0.03619 | PASS |
| | | | LCH | VN | 50 | 3.53 | 0.00186 | PASS |
| | | | MCH | VN | -30 | -14.63 | -0.00782 | PASS |
| | | | MCH | VN | -20 | -13.8 | -0.00738 | PASS |
| | | | MCH | VN | -10 | 65.2 | 0.03464 | PASS |
| | | | MCH | VN | 0 | -27.74 | -0.0148 | PASS |
| | | | MCH | VN | 10 | 24.79 | 0.01315 | PASS |
| | | | MCH | VN | 20 | -8.33 | -0.00447 | PASS |
| | | | MCH | VN | 30 | 40.66 | 0.02159 | PASS |
| | | | MCH | VN | 40 | -12.14 | -0.0065 | PASS |
| | | | MCH | VN | 50 | -1.96 | -0.00108 | PASS |
| | | | HCH | VN | -30 | -4.19 | -0.00225 | PASS |
| | | | HCH | VN | -20 | -0.43 | -0.00027 | PASS |
| | | | HCH | VN | -10 | 0.37 | 0.00015 | PASS |
| | | | HCH | VN | 0 | 0.37 | 0.00015 | PASS |
| | | | HCH | VN | 10 | -0.59 | -0.00035 | PASS |
| | | | HCH | VN | 20 | -2 | -0.00109 | PASS |
| | | | HCH | VN | 30 | 0.49 | 0.00022 | PASS |

| | | | | | | | | |
|-----|---------|-----|-----|-------|----------|----------|----------|------|
| | LTE/TM2 | 1.4 | LCH | VN | 40 | -2.75 | -0.00149 | PASS |
| | | | | | 50 | -0.64 | -0.00038 | PASS |
| | | | | | -30 | 0.43 | 0.00019 | PASS |
| | | | | | -20 | 1.67 | 0.00086 | PASS |
| | | | | | -10 | 1.65 | 0.00085 | PASS |
| | | | | | 0 | 1.75 | 0.00091 | PASS |
| | | | | | 10 | 1.33 | 0.00068 | PASS |
| | | | | | 20 | 1.79 | 0.00093 | PASS |
| | | | | | 30 | 1 | 0.0005 | PASS |
| | | | 40 | 1.86 | 0.00097 | PASS | | |
| | | | 50 | 1.59 | 0.00082 | PASS | | |
| | | | MCH | VN | -30 | -0.16 | -0.00013 | PASS |
| | | | | | -20 | -0.2 | -0.00015 | PASS |
| | | | | | -10 | -0.23 | -0.00016 | PASS |
| | | | | | 0 | -1.37 | -0.00077 | PASS |
| | | | | | 10 | -1.96 | -0.00108 | PASS |
| | | | | | 20 | -0.5 | -0.00031 | PASS |
| | | | | | 30 | -0.84 | -0.00049 | PASS |
| | | 40 | | | -1.74 | -0.00097 | PASS | |
| | | 50 | | | -1.9 | -0.00105 | PASS | |
| | | HCH | VN | -30 | -0.61 | -0.00036 | PASS | |
| | | | | -20 | -1.49 | -0.00082 | PASS | |
| | | | | -10 | -0.24 | -0.00017 | PASS | |
| | | | | 0 | -0.89 | -0.00051 | PASS | |
| | | | | 10 | -2.49 | -0.00135 | PASS | |
| | | | | 20 | -1.34 | -0.00074 | PASS | |
| | | | | 30 | -2.32 | -0.00126 | PASS | |
| | | | | 40 | -1.87 | -0.00102 | PASS | |
| | | | | 50 | -1.73 | -0.00095 | PASS | |
| | | 3 | LCH | VN | -30 | -4.46 | -0.00245 | PASS |
| | | | | | -20 | 4.26 | 0.00226 | PASS |
| | | | | | -10 | 1.99 | 0.00104 | PASS |
| | | | | | 0 | 0.73 | 0.00036 | PASS |
| | | | | | 10 | 2.02 | 0.00105 | PASS |
| | | | | | 20 | -0.36 | -0.00023 | PASS |
| | | | | | 30 | -11.42 | -0.00621 | PASS |
| 40 | -3.23 | | | | -0.00178 | PASS | | |
| 50 | -1.19 | | | | -0.00068 | PASS | | |
| MCH | VN | | -30 | -2.56 | -0.0014 | PASS | | |
| | | | -20 | 0.44 | 0.00019 | PASS | | |
| | | | -10 | 0.09 | 0.00001 | PASS | | |



| | | | | | | | | |
|--|--|--|-----|----|-----|--------|----------|------|
| | | | | | 0 | 5.08 | 0.00266 | PASS |
| | | | | | 10 | -2.03 | -0.00112 | PASS |
| | | | | | 20 | -11.37 | -0.00609 | PASS |
| | | | | | 30 | -4.15 | -0.00251 | PASS |
| | | | | | 40 | -2.89 | -0.00184 | PASS |
| | | | | | 50 | -2.5 | -0.00164 | PASS |
| | | | HCH | VN | -30 | -3.45 | -0.00211 | PASS |
| | | | HCH | VN | -20 | -0.39 | -0.00051 | PASS |
| | | | HCH | VN | -10 | -0.39 | -0.00051 | PASS |
| | | | HCH | VN | 0 | 0.84 | 0.00014 | PASS |
| | | | HCH | VN | 10 | -1.36 | -0.00102 | PASS |
| | | | HCH | VN | 20 | -0.04 | -0.00033 | PASS |
| | | | HCH | VN | 30 | 0.6 | 0.00001 | PASS |
| | | | HCH | VN | 40 | -4.71 | -0.00277 | PASS |
| | | | HCH | VN | 50 | 0.53 | -0.00003 | PASS |
| | | | LCH | VN | -30 | 1.03 | 0.00025 | PASS |
| | | | LCH | VN | -20 | -0.64 | -0.00065 | PASS |
| | | | LCH | VN | -10 | 2.8 | 0.0012 | PASS |
| | | | LCH | VN | 0 | 1.83 | 0.00068 | PASS |
| | | | LCH | VN | 10 | 1.97 | 0.00076 | PASS |
| | | | LCH | VN | 20 | -1.87 | -0.00132 | PASS |
| | | | LCH | VN | 30 | 2.07 | 0.00081 | PASS |
| | | | LCH | VN | 40 | -0.93 | -0.00079 | PASS |
| | | | LCH | VN | 50 | 4.79 | 0.0023 | PASS |
| | | | MCH | VN | -30 | -2.92 | -0.00184 | PASS |
| | | | MCH | VN | -20 | 2.45 | 0.00102 | PASS |
| | | | MCH | VN | -10 | 3.16 | 0.0014 | PASS |
| | | | MCH | VN | 0 | 1.12 | 0.00031 | PASS |
| | | | MCH | VN | 10 | 1.2 | 0.00035 | PASS |
| | | | MCH | VN | 20 | 0.43 | -0.00006 | PASS |
| | | | MCH | VN | 30 | 5.42 | 0.0026 | PASS |
| | | | MCH | VN | 40 | -0.2 | -0.00039 | PASS |
| | | | MCH | VN | 50 | -1.41 | -0.00104 | PASS |
| | | | HCH | VN | -30 | -0.5 | -0.00055 | PASS |
| | | | HCH | VN | -20 | -1.28 | -0.00095 | PASS |
| | | | HCH | VN | -10 | -5.18 | -0.003 | PASS |
| | | | HCH | VN | 0 | -2.06 | -0.00136 | PASS |
| | | | HCH | VN | 10 | 0.25 | -0.00015 | PASS |
| | | | HCH | VN | 20 | -2.13 | -0.0014 | PASS |
| | | | HCH | VN | 30 | -0.14 | -0.00036 | PASS |
| | | | HCH | VN | 40 | -1.16 | -0.00089 | PASS |

| | | | | | | | |
|--|--|----|-----|-----|--------|----------|------|
| | | | | 50 | 2.38 | 0.00096 | PASS |
| | | | | -30 | 1 | 0.00025 | PASS |
| | | | | -20 | 2.66 | 0.0013 | PASS |
| | | | | -10 | -1.6 | -0.00099 | PASS |
| | | | | 0 | -0.33 | -0.00031 | PASS |
| | | | LCH | 10 | 1.09 | 0.00046 | PASS |
| | | | | 20 | -17.73 | -0.00969 | PASS |
| | | | | 30 | -2.46 | -0.00146 | PASS |
| | | | | 40 | -1.16 | -0.00076 | PASS |
| | | | | 50 | 29.41 | 0.01572 | PASS |
| | | | | -30 | -0.54 | -0.00042 | PASS |
| | | | | -20 | -1.95 | -0.00117 | PASS |
| | | | | -10 | -1.69 | -0.00103 | PASS |
| | | | | 0 | -1.02 | -0.00067 | PASS |
| | | 10 | MCH | 10 | 1.17 | 0.00049 | PASS |
| | | | | 20 | 3.19 | 0.00157 | PASS |
| | | | | 30 | 3.05 | 0.00149 | PASS |
| | | | | 40 | -0.6 | -0.00045 | PASS |
| | | | | 50 | -4.12 | -0.00232 | PASS |
| | | | | -30 | -2.05 | -0.00121 | PASS |
| | | | | -20 | -1.29 | -0.00081 | PASS |
| | | | | -10 | 0.21 | -0.00002 | PASS |
| | | | | 0 | -0.23 | -0.00025 | PASS |
| | | | | 10 | 1.6 | 0.00071 | PASS |
| | | | | 20 | 1.46 | 0.00063 | PASS |
| | | | | 30 | -0.76 | -0.00053 | PASS |
| | | | | 40 | 3.72 | 0.00182 | PASS |
| | | | | 50 | -0.14 | -0.00021 | PASS |
| | | | | -30 | -1.71 | -0.00113 | PASS |
| | | | | -20 | -4.41 | -0.00258 | PASS |
| | | | | -10 | -0.61 | -0.00054 | PASS |
| | | | | 0 | 6.2 | 0.00313 | PASS |
| | | | | 10 | 2.32 | 0.00104 | PASS |
| | | | | 20 | -2.9 | -0.00177 | PASS |
| | | | | 30 | -3.3 | -0.00199 | PASS |
| | | | | 40 | -1.37 | -0.00095 | PASS |
| | | | | 50 | 1.79 | 0.00075 | PASS |
| | | 15 | | -30 | 2.07 | 0.00089 | PASS |
| | | | | -20 | -2.18 | -0.00137 | PASS |
| | | | | -10 | -1.01 | -0.00075 | PASS |
| | | | | 0 | -1.02 | -0.00075 | PASS |

| | | | | | | | | |
|--|--|--|-----|----|-----|--------|----------|------|
| | | | | | 10 | -1.51 | -0.00101 | PASS |
| | | | | | 20 | -1.98 | -0.00126 | PASS |
| | | | | | 30 | 0.15 | -0.00013 | PASS |
| | | | | | 40 | 0.05 | -0.00018 | PASS |
| | | | | | 50 | -3.66 | -0.00216 | PASS |
| | | | HCH | VN | -30 | 1.97 | 0.00082 | PASS |
| | | | HCH | VN | -20 | -0.57 | -0.00051 | PASS |
| | | | HCH | VN | -10 | -1.05 | -0.00076 | PASS |
| | | | HCH | VN | 0 | -4.27 | -0.00245 | PASS |
| | | | HCH | VN | 10 | -1.61 | -0.00106 | PASS |
| | | | HCH | VN | 20 | -1.24 | -0.00086 | PASS |
| | | | HCH | VN | 30 | -0.35 | -0.00039 | PASS |
| | | | HCH | VN | 40 | -1.55 | -0.00103 | PASS |
| | | | HCH | VN | 50 | -0.08 | -0.00025 | PASS |
| | | | LCH | VN | -30 | 23.18 | 0.01225 | PASS |
| | | | LCH | VN | -20 | 26.2 | 0.01388 | PASS |
| | | | LCH | VN | -10 | -14.34 | -0.00792 | PASS |
| | | | LCH | VN | 0 | -4.43 | -0.00259 | PASS |
| | | | LCH | VN | 10 | -0.14 | -0.00033 | PASS |
| | | | LCH | VN | 20 | 48.59 | 0.02587 | PASS |
| | | | LCH | VN | 30 | 57.64 | 0.03074 | PASS |
| | | | LCH | VN | 40 | -11.49 | -0.00643 | PASS |
| | | | LCH | VN | 50 | 74.1 | 0.03958 | PASS |
| | | | MCH | VN | -30 | 19.63 | 0.01019 | PASS |
| | | | MCH | VN | -20 | 54.57 | 0.02877 | PASS |
| | | | MCH | VN | -10 | -62.57 | -0.03354 | PASS |
| | | | MCH | VN | 0 | -80.9 | -0.04329 | PASS |
| | | | MCH | VN | 10 | 13.86 | 0.00712 | PASS |
| | | | MCH | VN | 20 | 4.82 | 0.00231 | PASS |
| | | | MCH | VN | 30 | -0.06 | -0.00029 | PASS |
| | | | MCH | VN | 40 | 19.64 | 0.01019 | PASS |
| | | | MCH | VN | 50 | -43.62 | -0.02346 | PASS |
| | | | HCH | VN | -30 | -1.26 | -0.00092 | PASS |
| | | | HCH | VN | -20 | -0.29 | -0.00041 | PASS |
| | | | HCH | VN | -10 | -2.25 | -0.00144 | PASS |
| | | | HCH | VN | 0 | -1.17 | -0.00087 | PASS |
| | | | HCH | VN | 10 | 0.82 | 0.00018 | PASS |
| | | | HCH | VN | 20 | -1.97 | -0.00129 | PASS |
| | | | HCH | VN | 30 | -0.62 | -0.00058 | PASS |
| | | | HCH | VN | 40 | -1.59 | -0.00109 | PASS |
| | | | HCH | VN | 50 | -3.93 | -0.00232 | PASS |



END