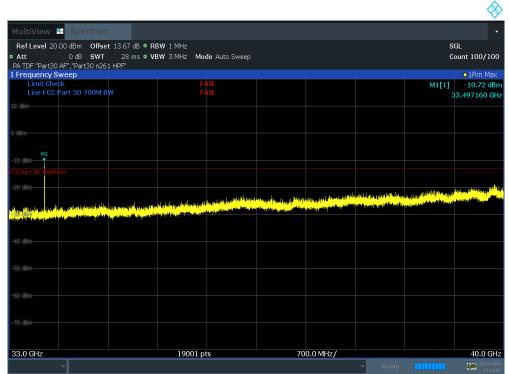


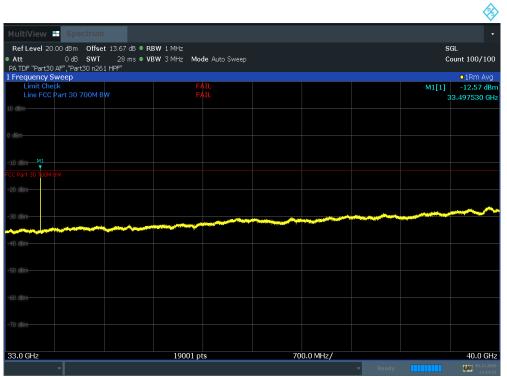
Plot 7-395. Radiated Spurious Plot 33 GHz – 40 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Mid Channel Pol. H) Fin



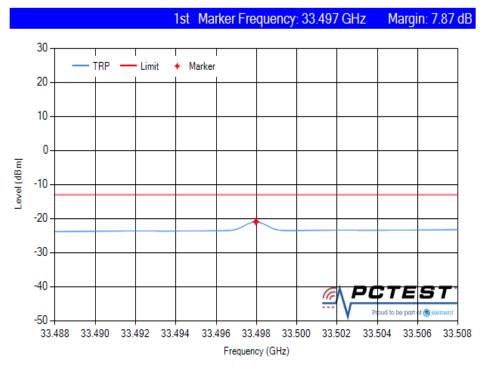
Plot 7-396. Radiated Spurious Plot 33 GHz – 40 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|--|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 226 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 236 of 322 |
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Plot 7-397. Radiated Spurious Plot 33 GHz – 40 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Mid Channel Pol. V) Fin



Plot 7-398. Radiated Spurious Plot 33.48 GHz – 33.51 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Mid TRP)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|---|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 227 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 237 of 322 |
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| Limit Check FAIL M1[1] -8.57 dBm 10 dBm 0 | | | | | |
|--|---|--|--|--|-----------------------|
| Net Level 20.00 dbm Offset 13.67 db RBW 1 MHz SGL • Att 0 db SWT 23 ms VBW 3 MHz Mode Auto Sweep • Count 100/100 • Att 0 db SWT 23 ms VBW 3 MHz Mode Auto Sweep • IPm Max • Init Check FAIL M1[1] -5.57 dBm -5.57 dBm Line FCC Part 30 700M BW FAIL M1[1] -5.57 dBm 0 dBm M1 -6.57 dBm -6.57 dBm 10 dBm M1 -6.57 dBm -6.57 dBm -0 dBm -6.7 dB -6.7 dB -6.7 dB -0 dBm -6.7 dB -6.7 dB -6.7 dB -0 dBm -6.7 dB -6.7 dB -6.7 dB -0 dBm -6.7 dB -6.7 dB -6.7 dB -6.7 dB -0 dBm -6.7 dB -6.7 dB -6.7 dB -6.7 dB -6.7 dB -0 dBm -6.7 dB -6.7 dB -6.7 dB -6.7 dB -6.7 dB -6.7 dB -0 dBm -6.7 dB -0 dBm </td <td>MultiView - Snectrum</td> <td></td> <td></td> <td></td> <td>×</td> | MultiView - Snectrum | | | | × |
| Att 0.6.8 SWT 2.8 ms VBW 3 MHz Mode Auto Sweep Count 100/100 PA TOP Part30 AP, "part30 radi HPF" Ifrequency Sweep • 18m Max • 18m Max Limit Check FATL M1[1] -8.57 dBm Limit Check FATL M1[1] -8.57 dBm 0 dBm Image: State S | | | | | 201 |
| PA T30 P#T30 A261 H#F" Imm Colspan="4">Imm Colspan="4">Imm Colspan="4">Imm Colspan="4" Imm Colspan="4">Imm Colspan="4" ILIMIC Colspan="4">Imm Colspan="4" ILIMIC Colspan="4" Imm Colspan="4" ILIMIC Colspan="4" | | | | | |
| 1 Frequency Sweep • I Prequency Sweep <td></td> <td>W 5 MILZ MOUE AUTO Sweep</td> <td></td> <td></td> <td>Count 100/ 100</td> | | W 5 MILZ MOUE AUTO Sweep | | | Count 100/ 100 |
| Line FCC Part 30 700M BW FAIL 33.527740 GHz 10 dBm | 1 Frequency Sweep | | | | • 1Rm Max |
| Interfere Interfere <t< td=""><td></td><td>FAIL</td><td></td><td>MI</td><td>5 A</td></t<> | | FAIL | | MI | 5 A |
| 0 dBm- M1 | Line FCC Part 30 700M BW | FAIL | | | 33.527740 GHz |
| M1 M2 M3 M4 < | 10 dBm | | | | |
| M1 M2 M3 M4 < | | | | | |
| M1 M2 M3 M4 M4 <th< td=""><td>0 dBm</td><td></td><td></td><td></td><td></td></th<> | 0 dBm | | | | |
| -10 dbm | | | | | |
| FCC Pert 30 700M eV FCC Pert 30 70M eV | M1 V | | | | |
| -00 d8m - </td <td>-10 dBm-</td> <td></td> <td></td> <td></td> <td></td> | -10 dBm- | | | | |
| -40 dBm- -50 dBm- -60 dBm- -70 dB | FCC Part 30 700M BW | | | | |
| -40 dBm- -50 dBm- -60 dBm- -70 dB | -20 dBm- | | | | a statutele o Alla da |
| -40 dBm- -50 dBm- -60 dBm- -70 dB | | | an a | te for the first particular and the first state of the first state of the first state of the first state of the | |
| -40 dBm- -50 dBm- -60 dBm- -70 dB | والمعتقد مصرفاته متعاطين كالأستعما المتطابع والمناج والمناج والمتعاد والمتعادية | | ألحم والمتشقل وحراب ويتأويه أتتر التشع وتجريها وماركا والمتحاط | hi de de la compensió de la constitución de la constitución de la constitución de la constitución de la constitu | |
| -40 dBm -60 dBm -70 dBm -70 dBm -70 dBm -10 | | and the second s | | | |
| -50 dBm- -60 dBm- -70 dBm- 33.0 GHz 19001 pts 700.0 MHz/ 40.0 GHz | | | | | |
| 160 dBm -70 dBm 33.0 GHz 19001 pts 700.0 MHz/ 40.0 GHz | -40 dBm- | | | | |
| 160 dBm -70 dBm 33.0 GHz 19001 pts 700.0 MHz/ 40.0 GHz | | | | | |
| 160 dBm -70 dBm 33.0 GHz 19001 pts 700.0 MHz/ 40.0 GHz | 10.10 | | | | |
| -70 dBm | -50 dBm- | | | | |
| -70 dBm | | | | | |
| 33.0 GHz 19001 pts 700.0 MHz/ 40.0 GHz | -60 dBm | | | | |
| 33.0 GHz 19001 pts 700.0 MHz/ 40.0 GHz | | | | | |
| 33.0 GHz 19001 pts 700.0 MHz/ 40.0 GHz | -70 dBm | | | | |
| | -vo ubiii | | | | |
| | | | | | |
| | 33.0 GHz | 19001 pts | 700.0 MHz/ | | 40,0 GHz |
| | | | | ✓ Ready | |

Plot 7-399. Radiated Spurious Plot 33 GHz – 40 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High Channel Pol. H)



Plot 7-400. Radiated Spurious Plot 33 GHz – 40 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High Channel Pol. H) Fin

| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 220 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 238 of 322 |
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| MultiView 🖶 Spectrum | | | | • |
|--|--|--|---------------------------------------|--|
| Ref Level 20.00 dBm Offset 13.67 dB • RB | W 1 MHz | | | SGL |
| | W 3 MHz Mode Auto Sweep | | | Count 100/100 |
| PA TDF "Part30 AF", "Part30 n261 HPF" | | | | |
| 1 Frequency Sweep | E A D | | | IRm Max |
| Limit Check Line FCC Part 30 700M BW | FAIL | | м | 1[1] -9.59 dBm 33.527740 GHz |
| | | | | 33.527740 GHz |
| 10 dBm | | | | |
| | | | | |
| 0 dBm- | | | | |
| | | | | |
| -10 dBm- | | | | |
| FCC Part 30 700M BW | | | | |
| | | | | |
| -20 dBm- | | | i i i i i i i i i i i i i i i i i i i | and the standard black of the standard |
| | اللطفة المانية بالربية والدريان التلاجين | inter i di spilling opportente i diel general di di sendi di | | And a state of the |
| -20 dBm | and state of the | and the second | | |
| a the distribution of a start of the start o | | | | |
| | | | | |
| -40 dBm | | | | |
| | | | | |
| -50 dBm- | | | | |
| | | | | |
| -60 dBm- | | | | |
| -00 abm | | | | |
| | | | | |
| -70 dBm | | | | |
| | | | | |
| | 10000 | | | |
| 33.0 GHz | 19001 pts | 700.0 MHz/ | | 40.0 GHz |
| * | | | 👻 Ready 🚺 | 03.11.2020 10:22:17 |

Plot 7-401. Radiated Spurious Plot 33 GHz – 40 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High Channel Pol. V)



Plot 7-402. Radiated Spurious Plot 33 GHz – 40 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High Channel Pol. V) Fin

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|---|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 220 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 239 of 322 |
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1st Marker Frequency: 33.528 GHz Margin: 7.82 dB 30 TRP Limit Marker 20 10 0 Level (dBm) -10 -20 -30 -40 PCTEST (c ud to be pa 0 -50 33.518 33.520 33.522 33.524 33.526 33.528 33.530 33.532 33.534 33.536 33.538 Frequency (GHz)

Plot 7-403. Radiated Spurious Plot 33.51 GHz - 33.54 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High TRP)

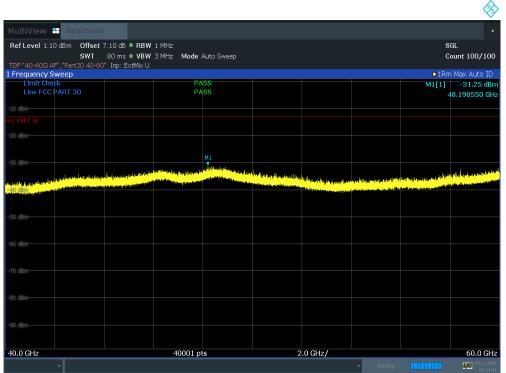
| Configuration | Channel | Ant Pol. [Degree] | Frequency [GHz] | RSE EIRP [dBm] | TRP [dBm] | Limit [dBm] | Margin [dB] | Reference Plot |
|--------------------------------------|---------|----------------------|--------------------|-------------------|--------------|----------------|----------------------|-----------------------|
| | | H | | -12.92 | | | | |
| | Low | V | 33.56 | -13.46 | -15.66 | -13 | 2.66 | Plot. 7-329 to 7-333 |
| | | н | | -12.90 | | 10 | 0.00 | |
| 100 MHz BW 4CC NC | Mid | V | 33.59 | -13.58 | -22.96 | -13 | 9.96 | Plot. 7-334 to 7-338 |
| | Lligh | Н | 33.62 | -12.51 | -22.89 | -13 | 9.89 | Plot. 7-339 to 7-343 |
| | High | V | 33.62 | -12.60 | -22.69 | -13 | 9.69 | Plot. 7-339 to 7-343 |
| | Low | Н | 33.48 | -10.10 | -21.60 | -13 | 8.60 | Plot. 7-344 to 7-348 |
| | LOW | V | 55.40 | -11.17 | -21.00 | -15 | 0.00 | 1 101. 7-344 10 7-348 |
| 50 MHz BW 2CC + | Mid | Н | 33.75 | -13.50 | -21.67 | -13 | 8.67 | Plot. 7-349 to 7-353 |
| 100 MHz BW 3CC | IVIIG | V | 00.70 | -13.66 | 21.07 | | 0.07 | |
| | High | Н | 34.02 | -14.39 | -21.92 | -13 | 8.92 | Plot. 7-354 to 7-358 |
| | , iigii | V | 0 | -15.34 | 202 | | 0.02 | |
| - | Low | Н | 33.53 | -11.10 | -20.25 | -13 | 7.25 | Plot. 7-359 to 7-363 |
| | - | V | | -11.80 | | - | _ | |
| 50 MHz BW 2CC + 100 MHz BW 3CC NC | Mid | H | 33.56 | -10.88 | -20.74 | -13 | 7.74 | Plot. 7-364 to 7-368 |
| TOO IVINZ BVV 3CC INC | | V | | -12.76 | | | | |
| | High | H | 33.59 | -13.12 -13.97 | -21.28 | -13 | 8.28 | Plot. 7-369 to 7-373 |
| | | Н | | -13.97 -12.65 | | | | |
| | Low | H V | 33.48 | -12.65 | -20.90 -13 | -13 7.90 | Plot. 7-374 to 7-378 | |
| 50 MHz BW 2CC + | | Н | | -12.19 | | | -13 7.95 | Plot. 7-379 to 7-383 |
| 100 MHz BW 6CC | Mid | V | 33.57 | -13.11 | -20.95 | -13 | | |
| | | Н | | -12.81 | | | | |
| | High | V | 33.66 | -13.02 | -21.28 | -13 | 8.28 | Plot. 7-384 to 7-388 |
| | | H | | -10.41 | | | | |
| | Low | V | 33.47 | -11.96 | -20.31 | -13 | 7.31 | Plot. 7-389 to 7-393 |
| 50 MHz BW 2CC + | | H | | -10.43 | | | | |
| 100 MHz BW 6CC NC | Mid | V | 33.50 | -12.57 | -20.87 | -13 | 7.87 | Plot. 7-394 to 7-398 |
| | | Н | | -10.34 | | 10 | 7.00 | |
| | High | V | 33.53 | -11.01 | -20.82 -13 | -13 | -13 7.82 | Plot. 7-399 to 7-403 |

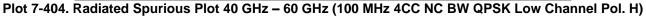
MEASUREMENT REPORT (Class II Permissive Change) PCTEST Approved by: <u>@</u> SAMSUNG FCC ID: A3LAT1K01-A10 e part of 🚗 Quality Manager Test Report S/N: Test Dates: EUT Type: Page 240 of 322 8K20092801-02-R4.A3L 10/27/2020-11/18/2020 AU(AT1K01)

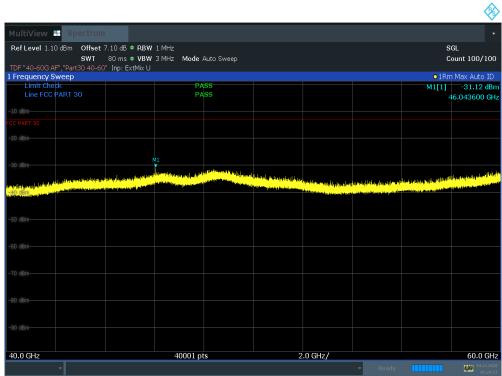
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7.5.6 Radiated Spurious Emissions Plots (40 GHz to 60 GHz)



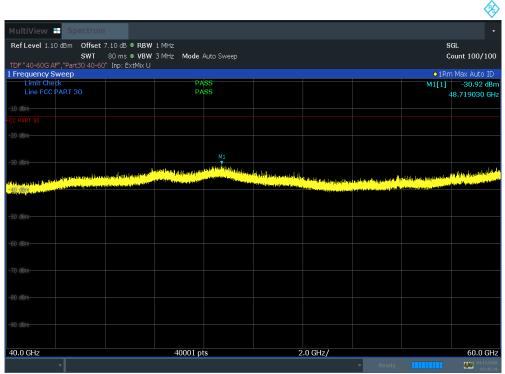




Plot 7-405. Radiated Spurious Plot 40 GHz - 60 GHz (100 MHz 4CC NC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 244 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 241 of 322 |
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Plot 7-406. Radiated Spurious Plot 40 GHz – 60 GHz (100 MHz 4CC NC BW QPSK Mid Channel Pol. H)



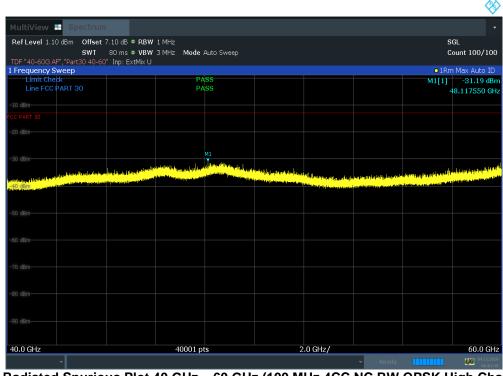
Plot 7-407. Radiated Spurious Plot 40 GHz – 60 GHz (100 MHz 4CC NC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Page 242 of 322 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 242 01 322 |
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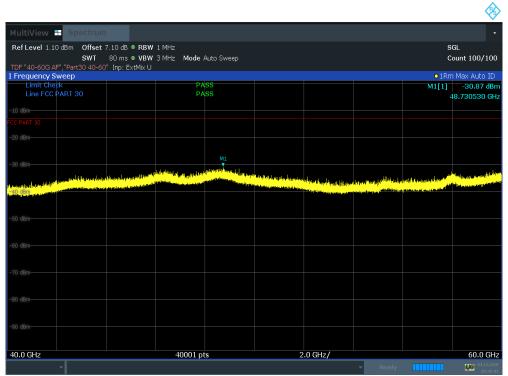
Plot 7-408. Radiated Spurious Plot 40 GHz – 60 GHz (100 MHz 4CC NC BW QPSK High Channel Pol. H)



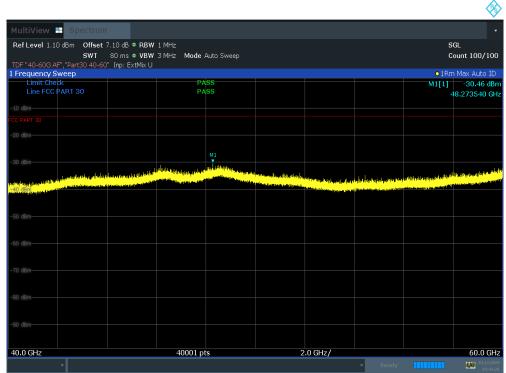
Plot 7-409. Radiated Spurious Plot 40 GHz – 60 GHz (100 MHz 4CC NC BW QPSK High Channel Pol. V)

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| Test Report S/N: | Test Dates: | EUT Type: | | Daga 242 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 243 of 322 |
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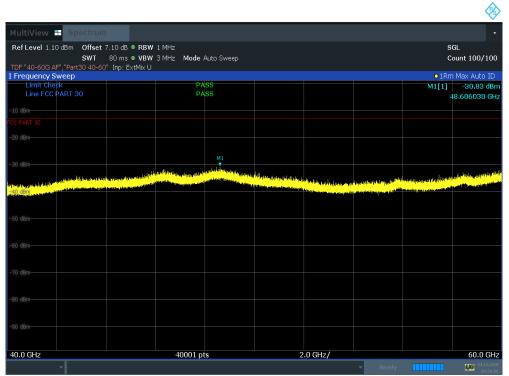
Plot 7-410. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Low Channel Pol. H)



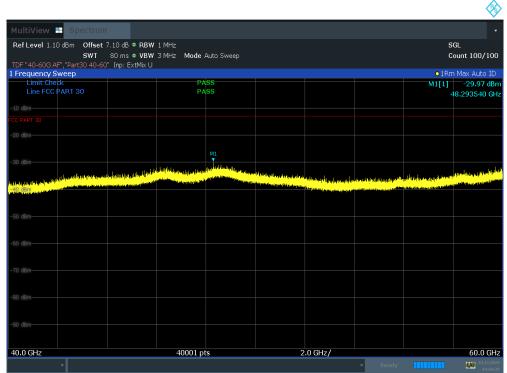
Plot 7-411. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 244 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 244 of 322 |
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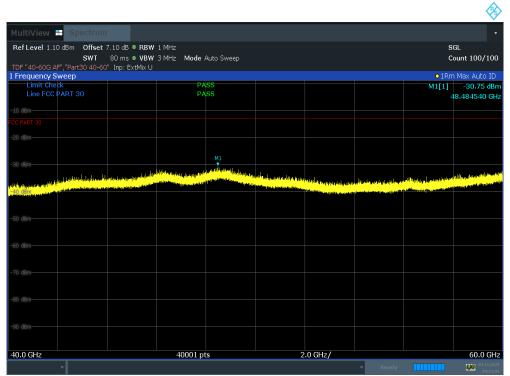
Plot 7-412. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Mid Channel Pol. H)



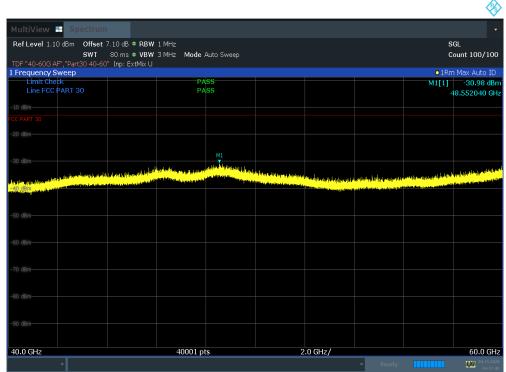
Plot 7-413. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 245 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 245 of 322 |
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Plot 7-414. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK High Channel Pol. H)



Plot 7-415. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK High Channel Pol. V)

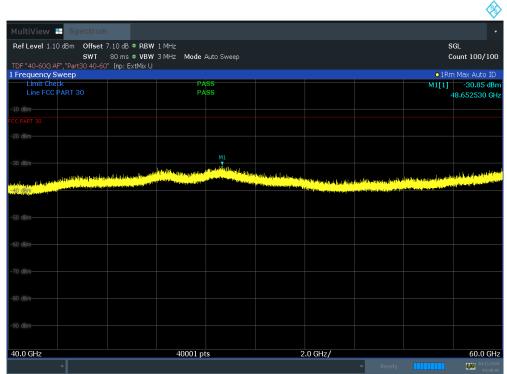
| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dogo 246 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 246 of 322 |
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| fultiView 🗄 Spectrum | | | | |
|--|--|--|---------|----------------------------------|
| Ref Level 1.10 dBm Offset 7.10 dB • R | BW 1 MHz | | | SGL |
| SWT 80 ms 🗢 V | BW 3 MHz Mode Auto Sweep | | | Count 100/10 |
| DF "40-60G AF","Part30 40-60" Inp: ExtMi | ×U | | | |
| Frequency Sweep Limit Check | PASS | | - | 1Rm Max Auto II [1] -31.08 dE |
| Line FCC PART 30 | PASS | | I M I | [1] -31.08 dE 48.685530 G |
| 0 dBm | | | | 10100000000 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | M1 | | | |
| الشابلا المعينا الاستعاد والمالية المعادي والمعادي والمعاد | | e di li ta a di paa dig da di fan sekint in di angerije di sekint in sekint in sekint in sekint in sekint in s | | أسأعماذ بالإعطار معاديهما |
| 17 July Inc. in the second | and the second | | | Marine Statistics of States |
| | | | | |
| 50 dBm | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 30 dBm | | | | |
| | | | | |
| | | | | |
| 90 dBm- | | | | |
| | | | | |
| 0.0 GHz | 40001 pts | 2.0 GHz/ | | 60.0 Gł |
| * | | | ▼ Ready | 04.11.20 |

~

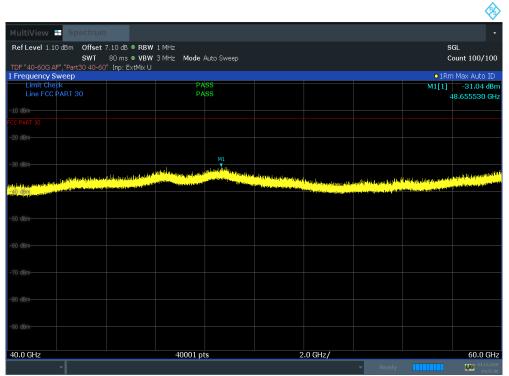
Plot 7-416. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Low Channel Pol. H)



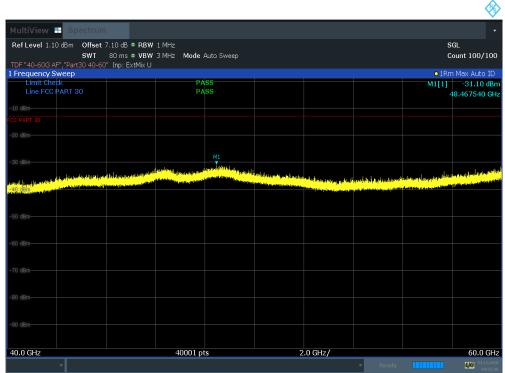
Plot 7-417. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 247 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 247 of 322 |
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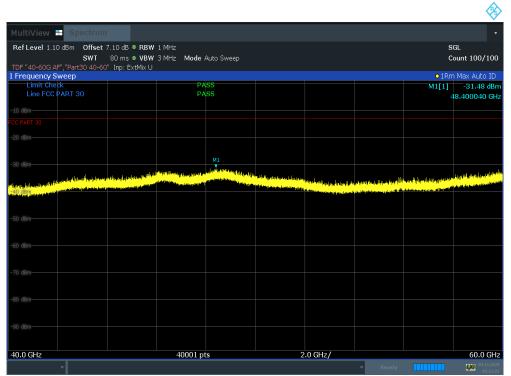
Plot 7-418. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Mid Channel Pol. H)



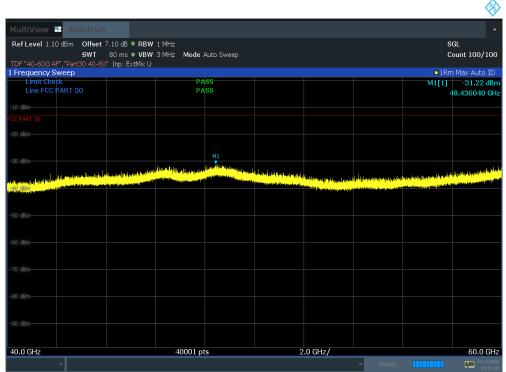
Plot 7-419. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 240 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 248 of 322 |
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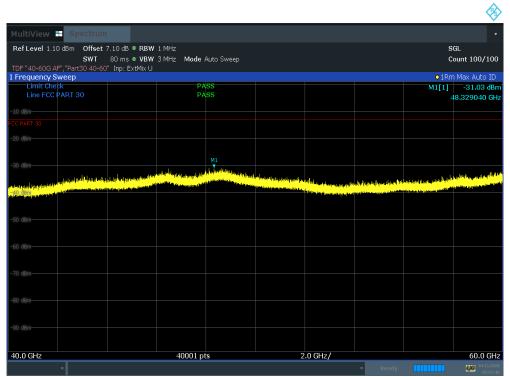
Plot 7-420. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK High Channel Pol. H)



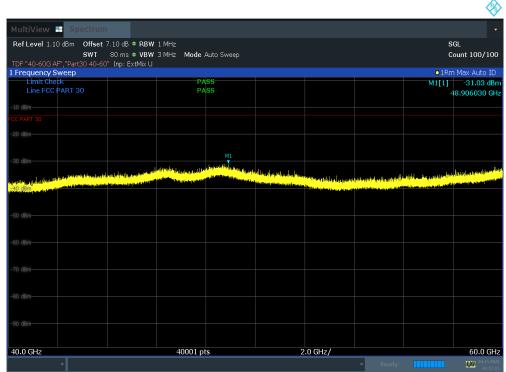
Plot 7-421. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK High Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 240 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 249 of 322 |
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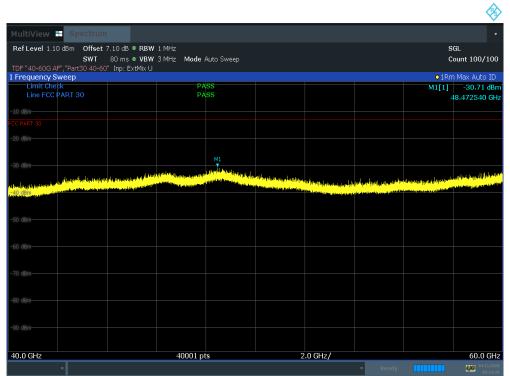
Plot 7-422. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Low Channel Pol. H)



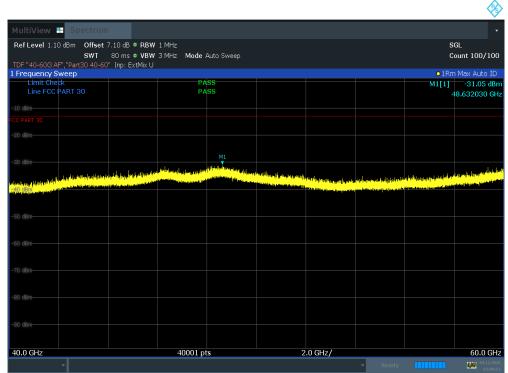
Plot 7-423. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 250 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 250 of 322 |
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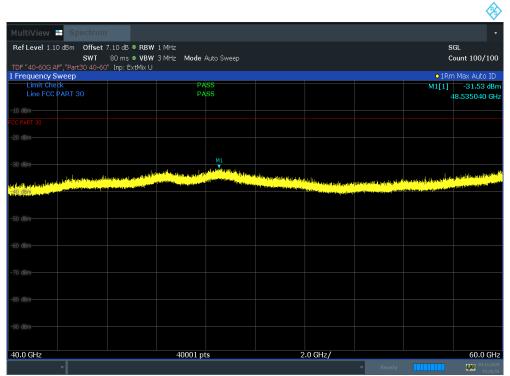
Plot 7-424. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Mid Channel Pol. H)



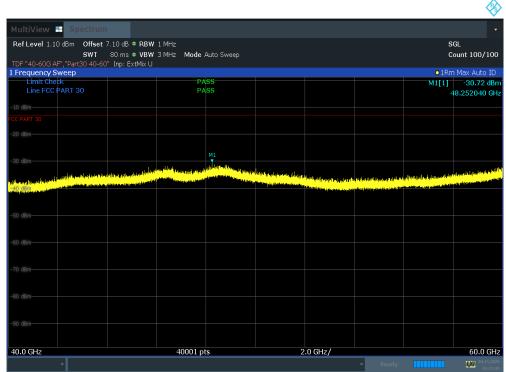
Plot 7-425. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dogo 251 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 251 of 322 |
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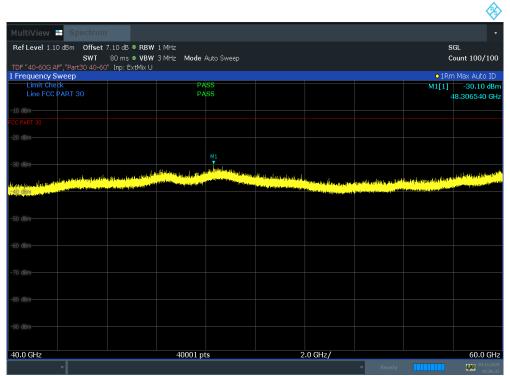
Plot 7-426. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK High Channel Pol. H)



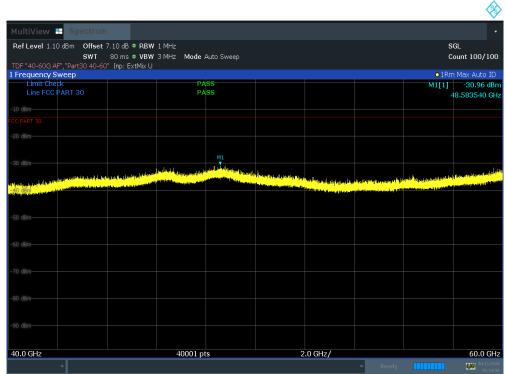
Plot 7-427. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK High Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 252 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 252 of 322 |
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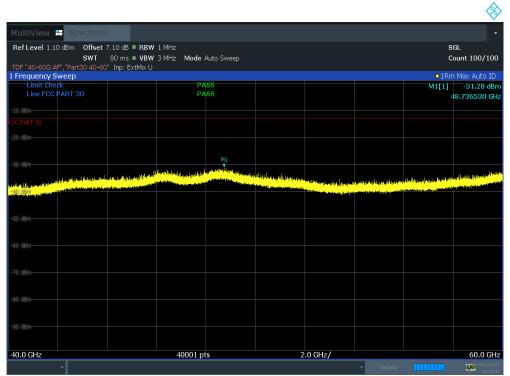
Plot 7-428. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Low Channel Pol. H)



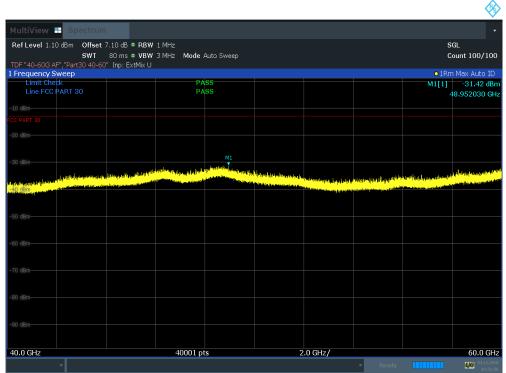
Plot 7-429. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|---|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 252 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 253 of 322 |
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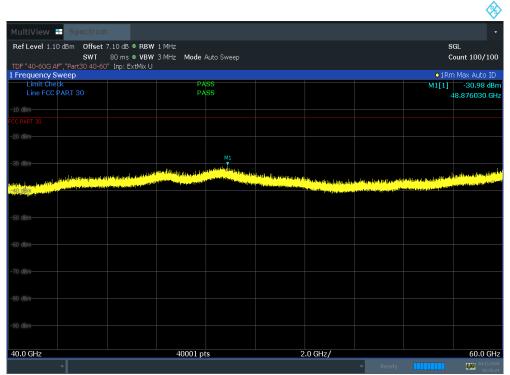
Plot 7-430. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Mid Channel Pol. H)



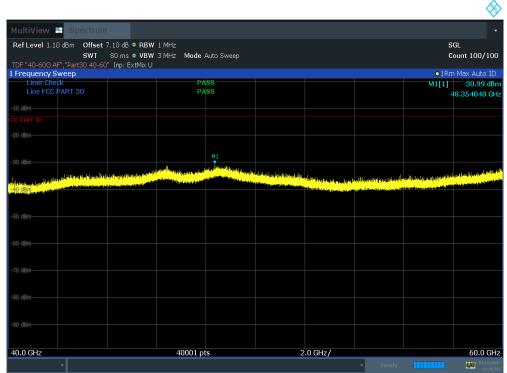
Plot 7-431. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|---|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 254 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 254 of 322 |
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Plot 7-432. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High Channel Pol. H)

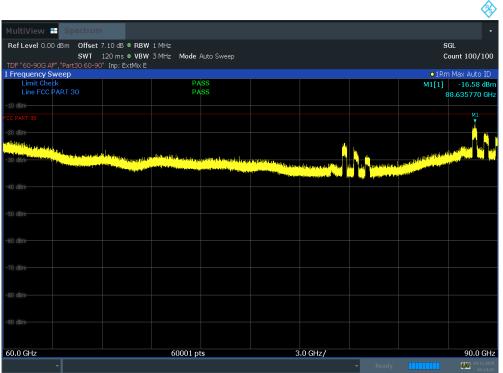


Plot 7-433. Radiated Spurious Plot 40 GHz – 60 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High Channel Pol. V)

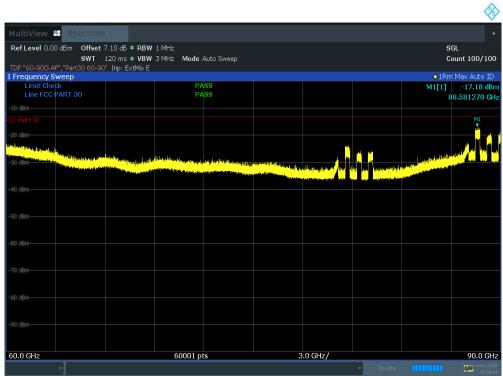
| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|--|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 255 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 255 of 322 |
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7.5.7 Radiated Spurious Emissions Plots (60 GHz to 90 GHz)



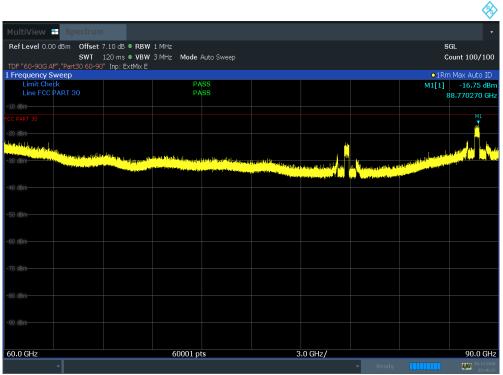
Plot 7-434. Radiated Spurious Plot 60 GHz – 90 GHz (100 MHz 4CC NC BW QPSK Low Channel Pol. H)



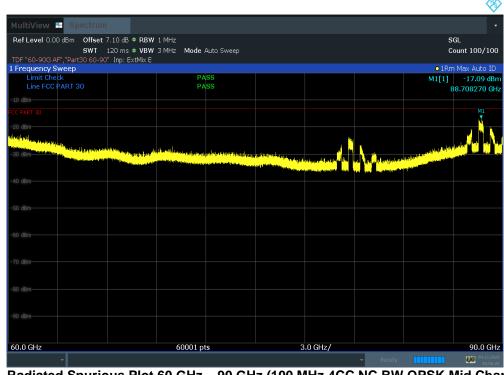
Plot 7-435. Radiated Spurious Plot 60 GHz – 90 GHz (100 MHz 4CC NC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 256 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 256 of 322 |
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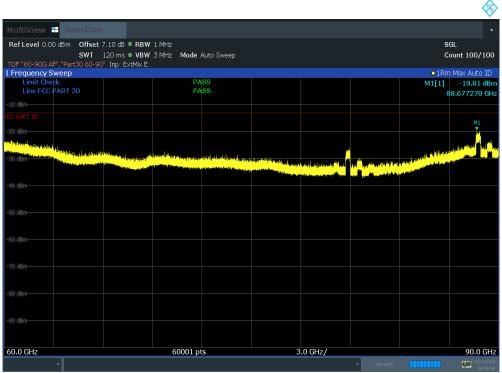
Plot 7-436. Radiated Spurious Plot 60 GHz – 90 GHz (100 MHz 4CC NC BW QPSK Mid Channel Pol. H)



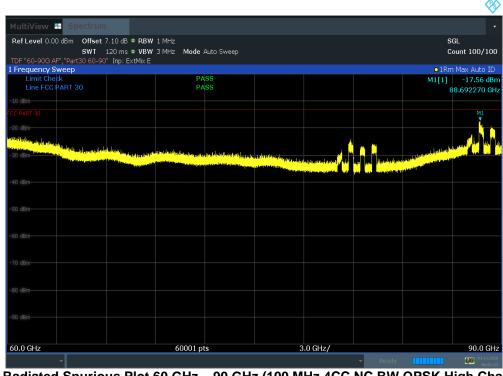
Plot 7-437. Radiated Spurious Plot 60 GHz – 90 GHz (100 MHz 4CC NC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|--|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 257 of 322 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 257 01 322 |
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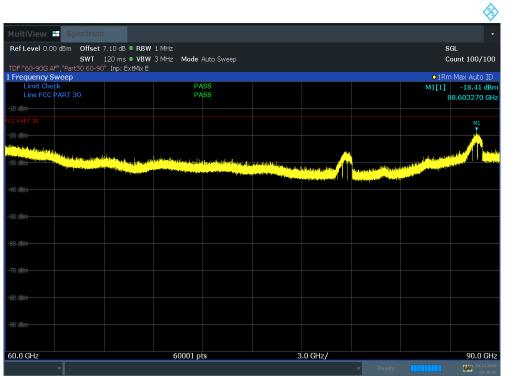
Plot 7-438. Radiated Spurious Plot 60 GHz – 90 GHz (100 MHz 4CC NC BW QPSK High Channel Pol. H)



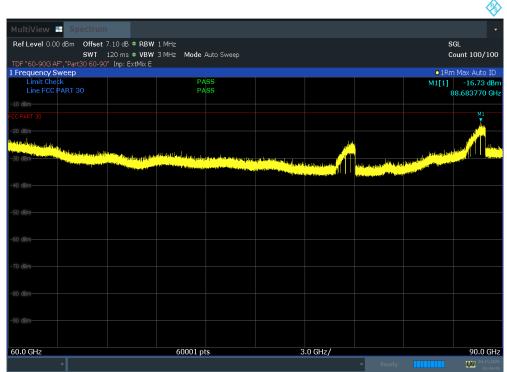
Plot 7-439. Radiated Spurious Plot 60 GHz – 90 GHz (100 MHz 4CC NC BW QPSK High Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 258 of 322 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 258 01 322 |
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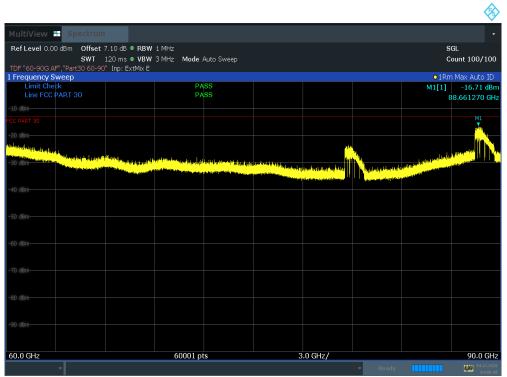
Plot 7-440. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Low Channel Pol. H)



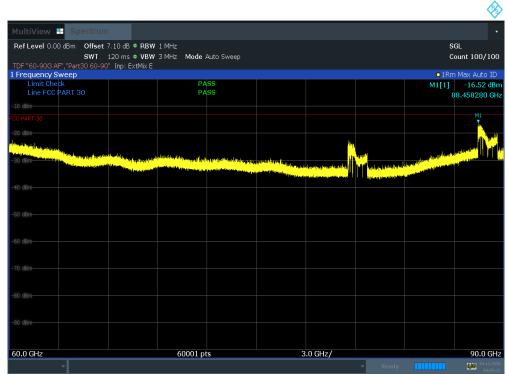
Plot 7-441. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 250 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 259 of 322 |
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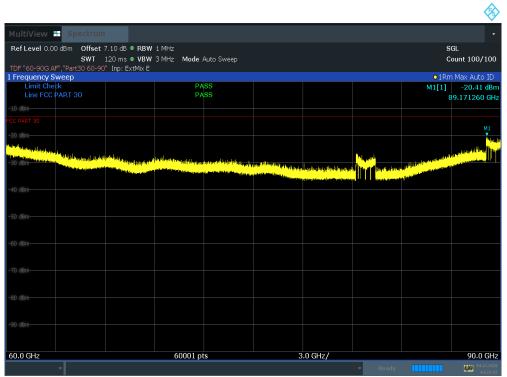
Plot 7-442. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Mid Channel Pol. H)



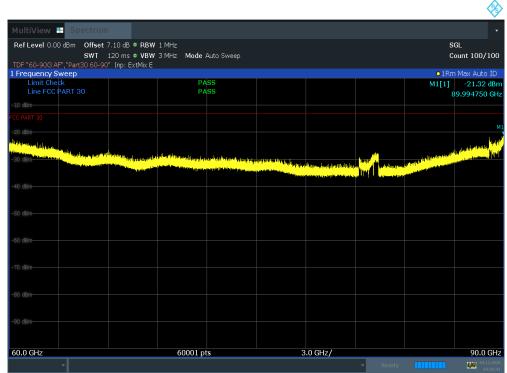
Plot 7-443. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dogo 200 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 260 of 322 |
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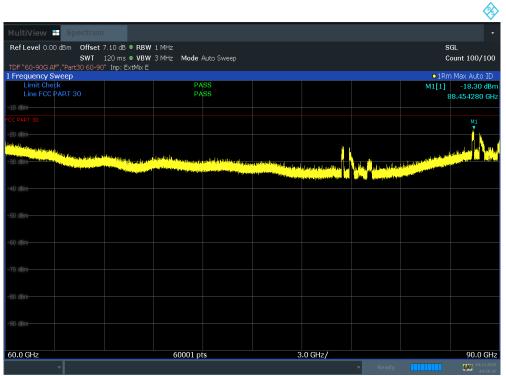
Plot 7-444. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK High Channel Pol. H)



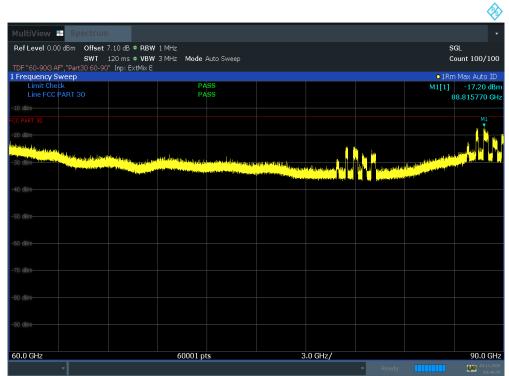
Plot 7-445. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK High Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 261 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 261 of 322 |
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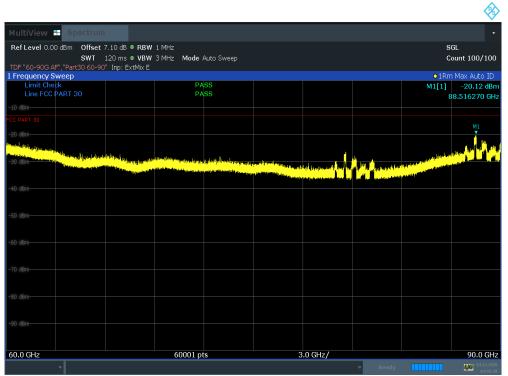
Plot 7-446. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Low Channel Pol. H)



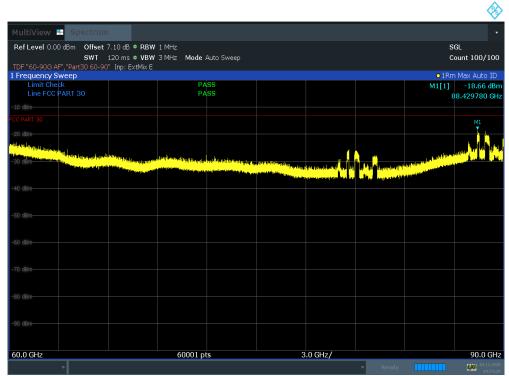
Plot 7-447. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Low Channel Pol. V)

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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 202 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 262 of 322 |
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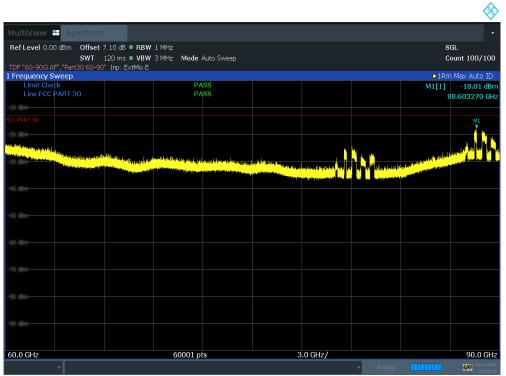
Plot 7-448. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Mid Channel Pol. H)



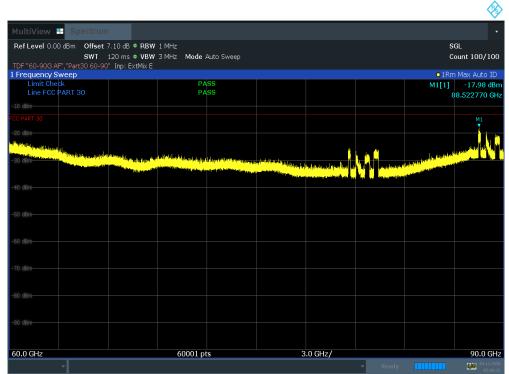
Plot 7-449. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dogo 262 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 263 of 322 |
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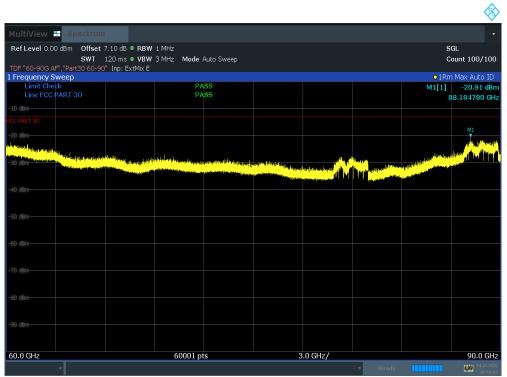
Plot 7-450. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK High Channel Pol. H)



Plot 7-451. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK High Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 204 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 264 of 322 |
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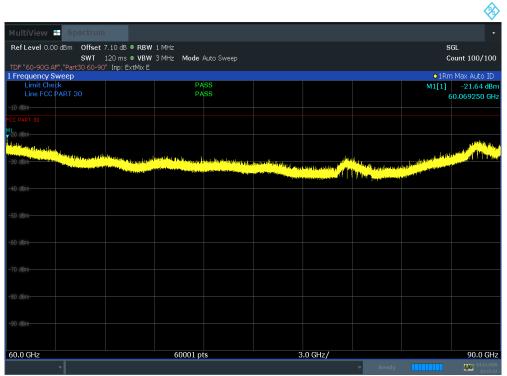
Plot 7-452. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Low Channel Pol. H)



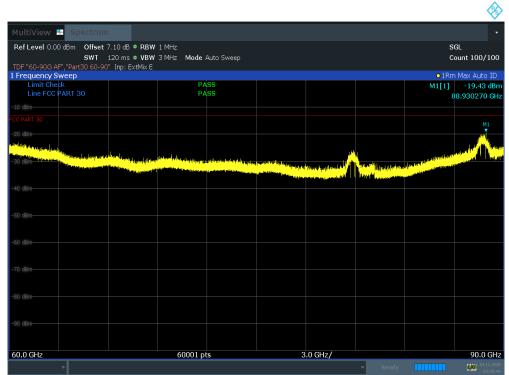
Plot 7-453. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Low Channel Pol. V)

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|-----------------------|--|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 205 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 265 of 322 |
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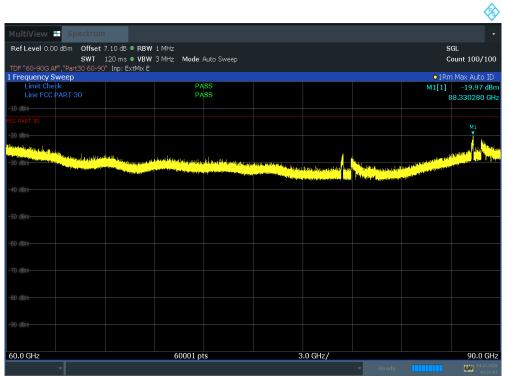
Plot 7-454. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Mid Channel Pol. H)



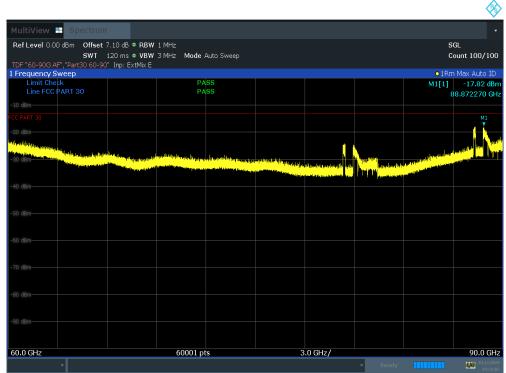
Plot 7-455. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Demo 200 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 266 of 322 |
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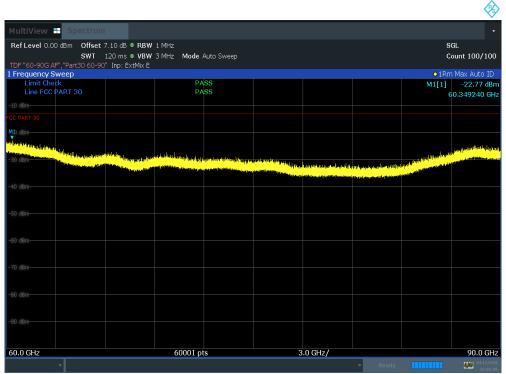
Plot 7-456. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK High Channel Pol. H)



Plot 7-457. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK High Channel Pol. V)

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|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 267 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 267 of 322 |
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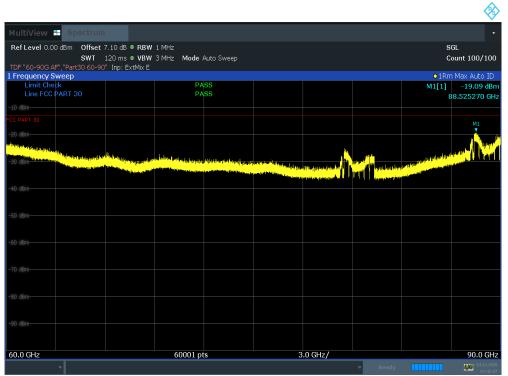
Plot 7-458. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Low Channel Pol. H)



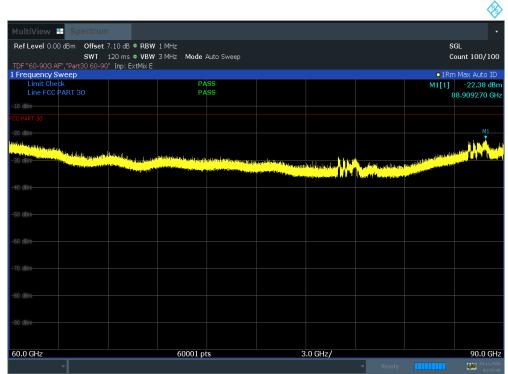
Plot 7-459. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Low Channel Pol. V)

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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 200 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 268 of 322 |
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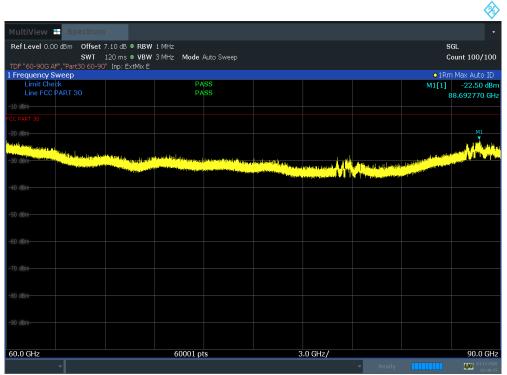
Plot 7-460. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Mid Channel Pol. H)



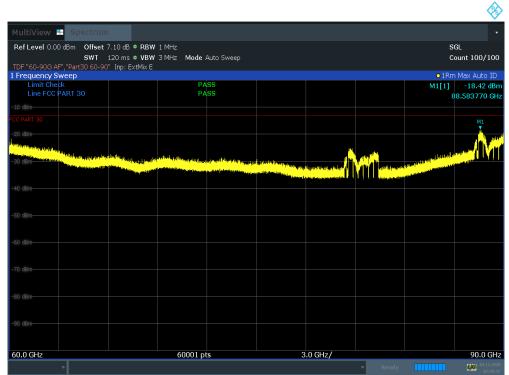
Plot 7-461. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|---|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 269 of 322 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | |
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Plot 7-462. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High Channel Pol. H)

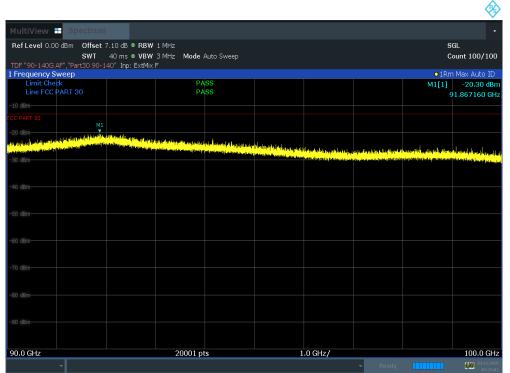


Plot 7-463. Radiated Spurious Plot 60 GHz – 90 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High Channel Pol. V)

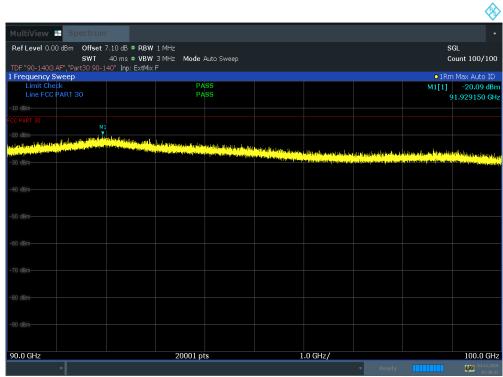
| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|---|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 270 of 322 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | |
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7.5.8 Radiated Spurious Emissions Plots (90 GHz – 100 GHz)



Plot 7-464. Radiated Spurious Plot 90 GHz – 100 GHz (100 MHz 4CC NC BW QPSK Low Channel Pol. H)



Plot 7-465. Radiated Spurious Plot 90 GHz – 100 GHz (100 MHz 4CC NC BW QPSK Low Channel Pol. V)

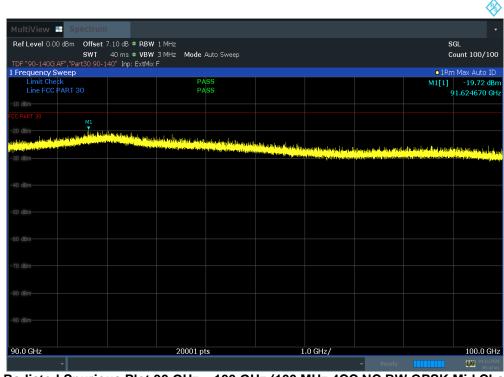
| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 271 of 322 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | |
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| MultiView 🗄 Spectrum | | | • |
|--|--|--|--|
| Ref Level 0.00 dBm Offset 7.10 dB | • RBW 1 MHz | | SGL |
| SWT 40 ms TDF "90-140G AF","Part30 90-140" Inp: | VBW 3 MHz Mode Auto Sweep ExtMix E | | Count 100/100 |
| 1 Frequency Sweep | | | o1Rm Max Auto ID |
| Limit Check Line FCC PART 30 | PASS PASS | | M1[1] -19.72 dBm 91.624670 GHz |
| -10 dBm- | | | |
| FCC PART 30 M1 | | | |
| -20 dBm- | the Manual data and the antipert action to a transfer of the second | | |
| and the second | And the second | na Alfran Bilanna Alexana. Alfran ann an Sanna an Sanna an Sanna an Anna an Anna an Anna an Anna an Anna an Ann Anna Anna | and a standard of the provide state of the s |
| -30 dBm- | | a de la contration e bien aco, lla palatie aparator o participante de la constitución de de la const | Manana ha kata haina da majalan di se dida a kijakanak sa tang jan sa p |
| -40 dBm- | | | |
| | | | |
| -50 dBm | | | |
| | | | |
| -60 dBm- | | | |
| | | | |
| -70 dBm- | | | |
| ~ ~ | | | |
| -80 dBm | | | |
| -90 dBm | | | |
| | | | |
| 90.0 GHz | 20001 = 1= | | 100-0-04 |
| 90.0 GH2 | 20001 pts | 1.0 GHz/ | 100.0 GHz |
| ľ ľ | | * Reau | 05:47:01 |

~

Plot 7-466. Radiated Spurious Plot 90 GHz – 100 GHz (100 MHz 4CC NC BW QPSK Mid Channel Pol. H)



Plot 7-467. Radiated Spurious Plot 90 GHz – 100 GHz (100 MHz 4CC NC BW QPSK Mid Channel Pol. V)

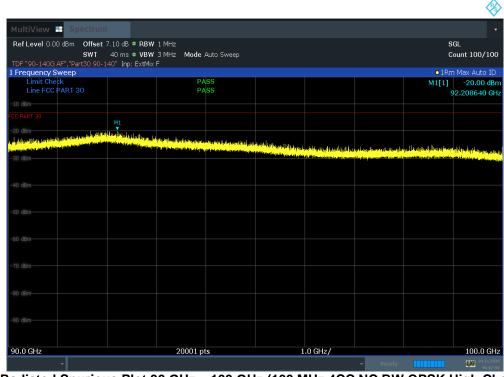
| FCC ID: A3LAT1K01-A10 | Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 070 of 000 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 272 of 322 |
| © 2020 PCTEST | | | | PK-OP-16-09 Rev 02 |



| | | | | (*) |
|--|--|---|--|------------------------|
| MultiView 🗄 Spectrum | | | | + |
| Ref Level 0.00 dBm Offset 7.10 dB • RBW | 1 MHz | | | SGL |
| | 3 MHz Mode Auto Sweep | | | Count 100/100 |
| TDF "90-140G AF", "Part30 90-140" Inp: ExtMix 1 Frequency Sweep | :F | | 01 | Rm Max Auto ID |
| Limit Check | PASS | | M1[1 | |
| Line FCC PART 30 | PASS | | | 91.932650 GHz |
| -10 dBm- | | | | |
| FCC PART 30 M1 | | | | |
| -20 dBm | | | | _ |
| -20 dBm M1 erzh ka el kan di a statu je Nata al la di dal bete Angesing je j kan an di a statu je Nata al la di dal bete Angesing je j | Personalities and a state of a state of the base | in the state of the test trained with the free trained | r adaat di lata daar sadaat awaata na Balkasanto dha | ana |
| -30 dBm | | a far for a standard of the second standard of the second s | | |
| | | | | |
| -40 dBm- | | | | |
| | | | | |
| -50 dBm | | | | |
| | | | | |
| -60 dBm- | | | | |
| | | | | |
| -70 dBm- | | | | |
| -ro upin | | | | |
| | | | | |
| -80 dBm- | | | | |
| | | | | |
| -90 dBm- | | | | |
| | | | | |
| 90.0 GHz | 20001 pts | 1.0 GHz/ | | 100.0 GHz |
| | | | 🔻 Ready | 04.11.2020 06:06:35 |

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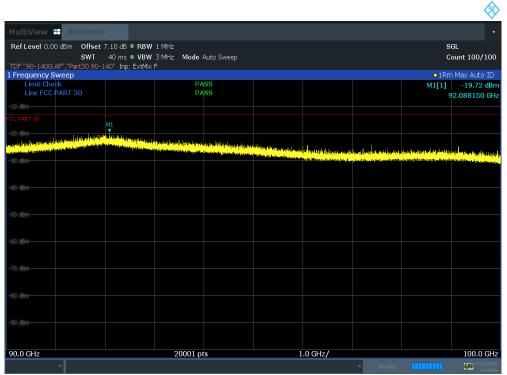
Plot 7-468. Radiated Spurious Plot 90 GHz – 100 GHz (100 MHz 4CC NC BW QPSK High Channel Pol. H)



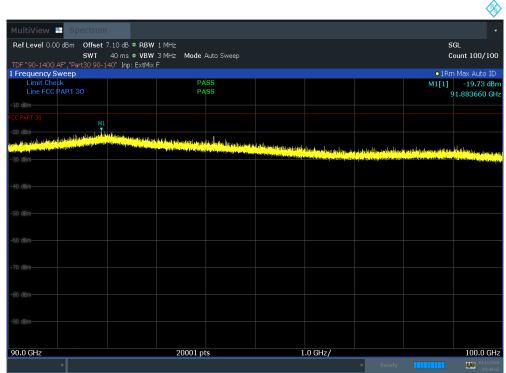
Plot 7-469. Radiated Spurious Plot 90 GHz – 100 GHz (100 MHz 4CC NC BW QPSK High Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|--|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 272 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 273 of 322 |
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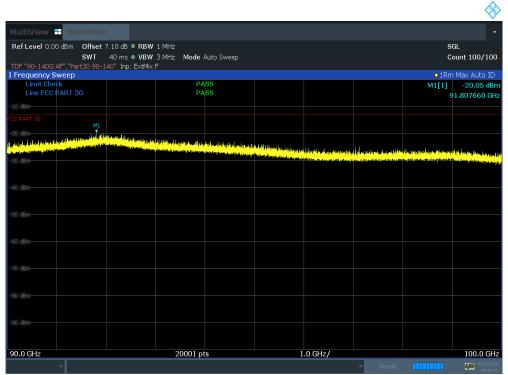
Plot 7-470. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Low Channel Pol. H)



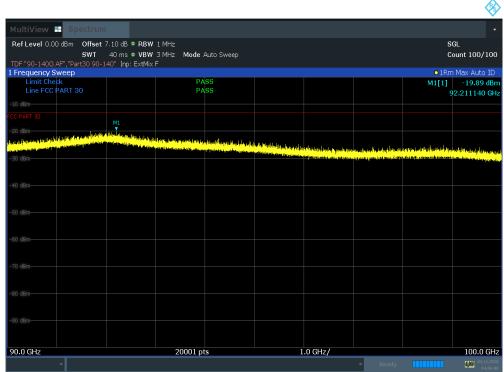
Plot 7-471. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-------------------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 274 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 274 of 322 |
| © 2020 PCTEST. | | | | PK-QP-16-09 Rev.02 |





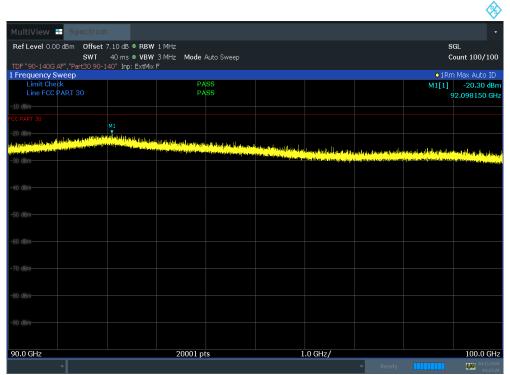
Plot 7-472. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Mid Channel Pol. H)



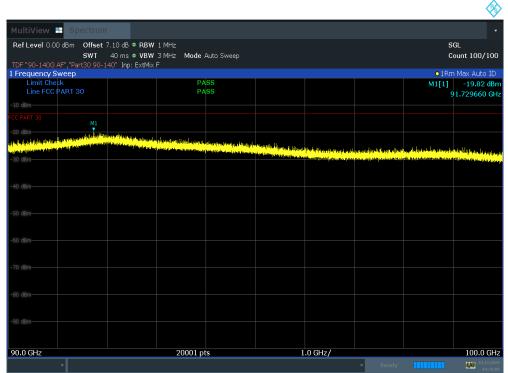
Plot 7-473. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|---|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 275 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 275 of 322 |
| © 2020 PCTEST. | | | | PK-QP-16-09 Rev.02 |





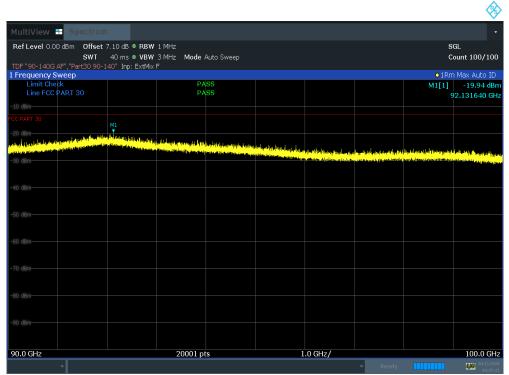
Plot 7-474. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK High Channel Pol. H)



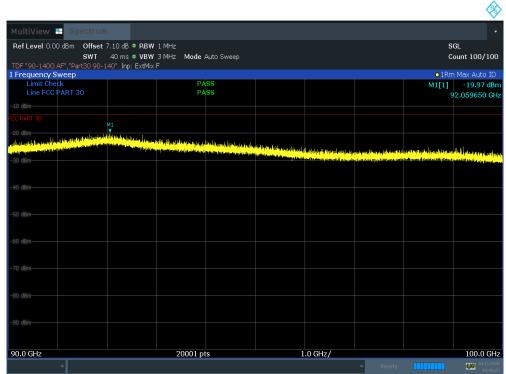
Plot 7-475. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC BW QPSK High Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|---|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 276 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 276 of 322 |
| © 2020 PCTEST. | | | | PK-QP-16-09 Rev.02 |





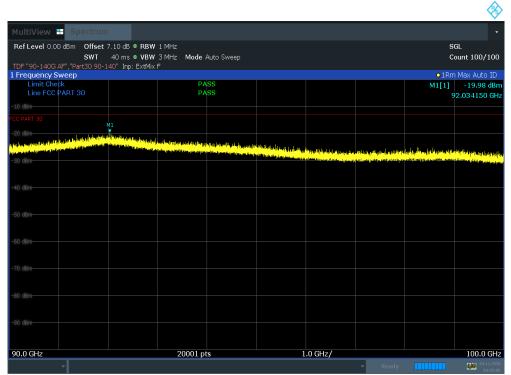
Plot 7-476. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Low Channel Pol. H)



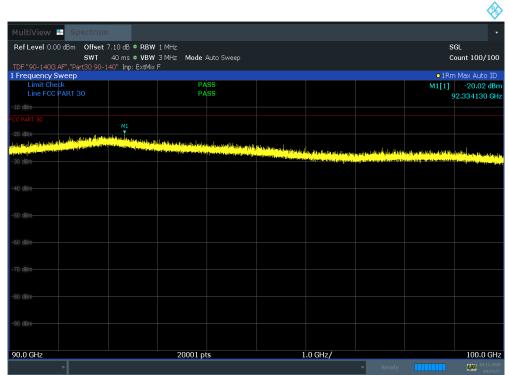
Plot 7-477. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|-----------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 277 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 277 of 322 |
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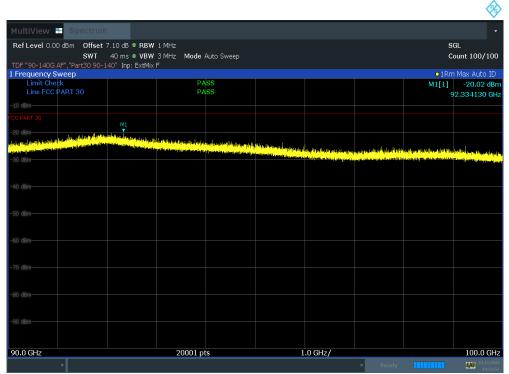
Plot 7-478. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Mid Channel Pol. H)



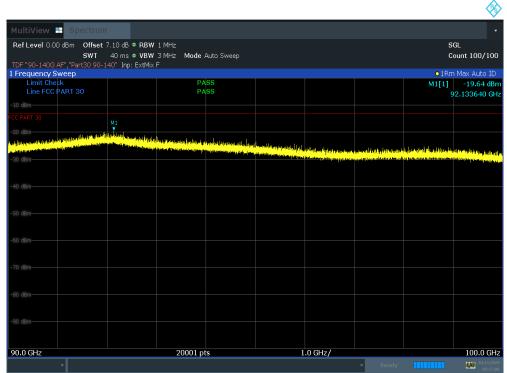
Plot 7-479. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|--|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 270 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 278 of 322 |
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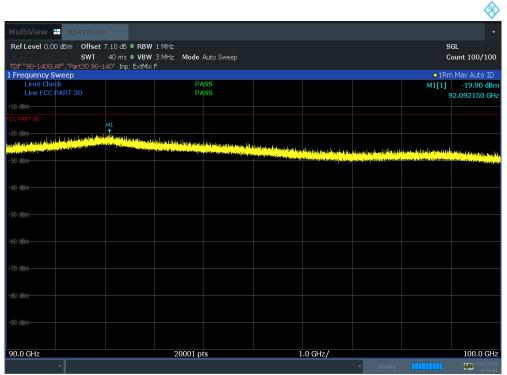
Plot 7-480. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK High Channel Pol. H)



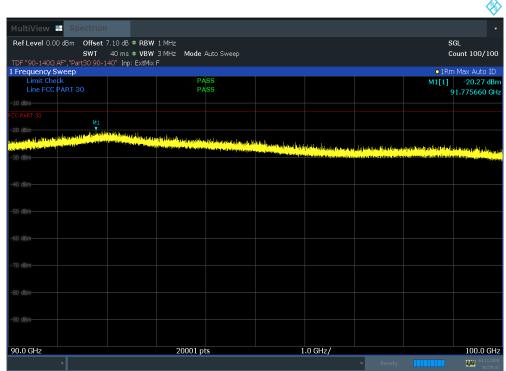
Plot 7-481. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 3CC NC BW QPSK High Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 270 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 279 of 322 |
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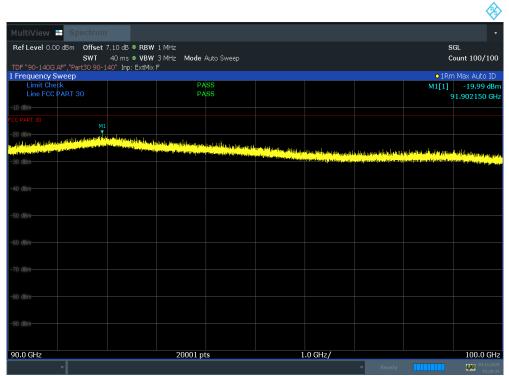
Plot 7-482. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Low Channel Pol. H)



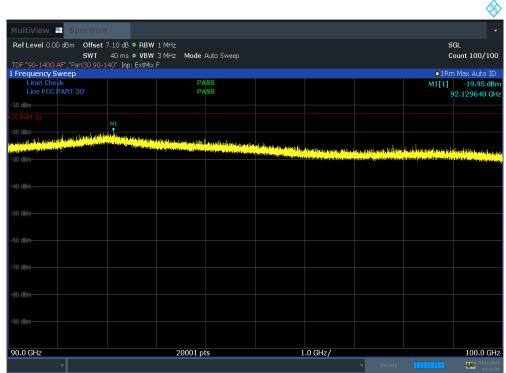
Plot 7-483. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 200 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 280 of 322 |
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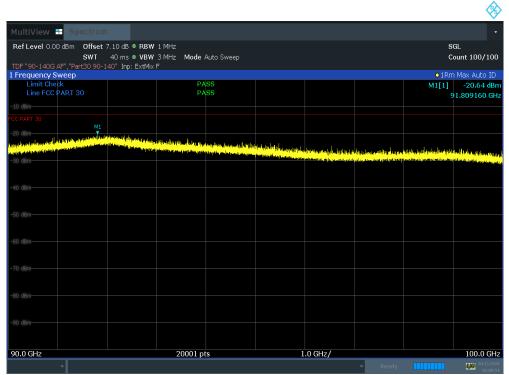
Plot 7-484. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Mid Channel Pol. H)



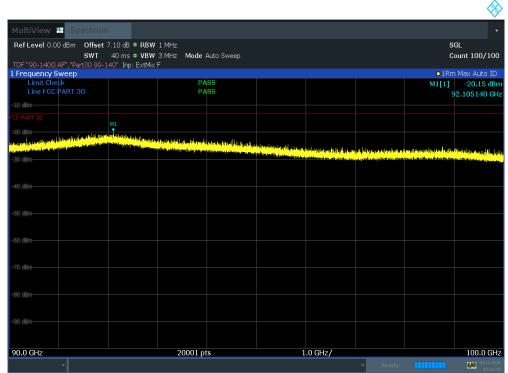
Plot 7-485. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK Mid Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 201 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 281 of 322 |
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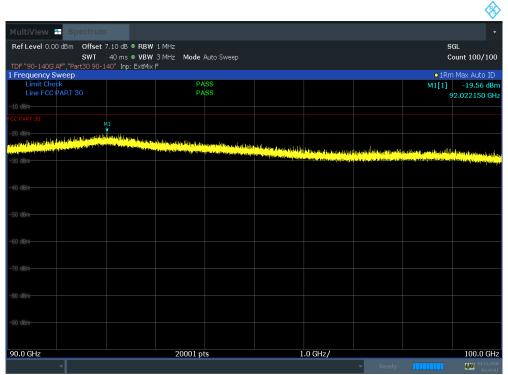
Plot 7-486. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK High Channel Pol. H)



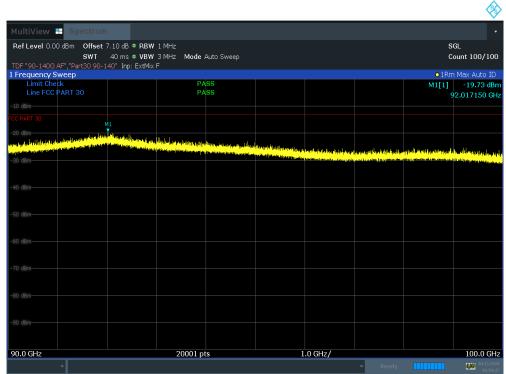
Plot 7-487. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC BW QPSK High Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 202 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 282 of 322 |
| © 2020 PCTEST. | | · | | PK-QP-16-09 Rev.02 |





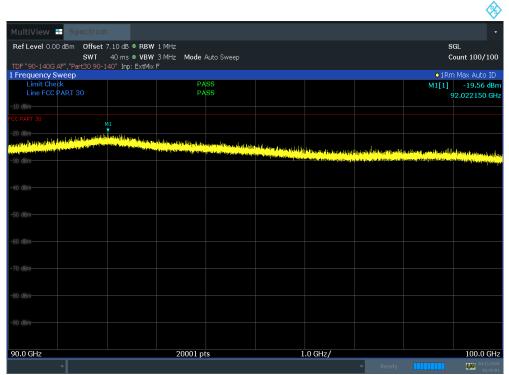
Plot 7-488. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Low Channel Pol. H)



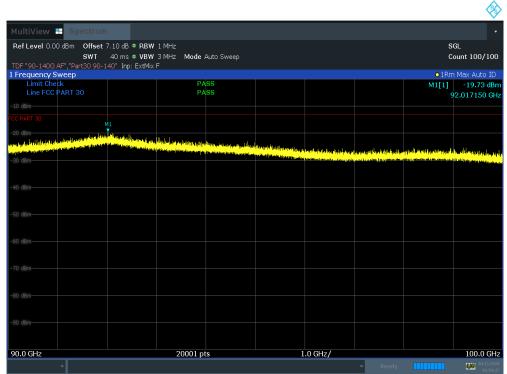
Plot 7-489. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Low Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|---|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 202 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 283 of 322 |
| © 2020 PCTEST. | | · | | PK-QP-16-09 Rev.02 |





Plot 7-490. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Mid Channel Pol. H)



Plot 7-491. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK Mid Channel Pol. V)

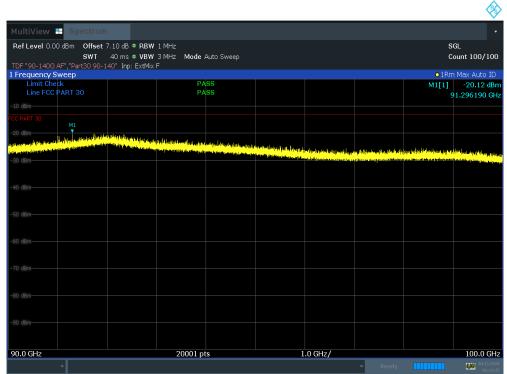
| FCC ID: A3LAT1K01-A10 | Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 204 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 284 of 322 |
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| MultiView 🕂 Sp | ectrum | | | | | | | |
|--------------------------------|------------------------|---|-----------------------|--|---|--|--|--|
| Ref Level 0.00 dBm | Offset 7.10 dB • RB | ₩ 1 MHz | | | | | s | GL |
| | SWT 40 ms • VBV | N 3 MHz Mode A | Auto Sweep | | | | с | ount 100/100 |
| | rt30 90-140" Inp: ExtM | ix F | | | | | | |
| Frequency Sweep Limit Check | | PA | <u>ee</u> | | | | | n Max Auto ID |
| Line FCC PART 3 | | PA | | | | | M1[1] | -19.86 dB 2.066650 GI |
| 10 dBm | | | | | | | | 2.000000 0 |
| | | | | | | | | |
| | M1 | | | | | | | |
| 20 dBm | | | | | | | | |
| | | | weigeneideren bereite | and a start of the all starts and a start of the start of | al and a later of the local | terror describitoria | Indution and described the | Bardan i ali i I |
| 30 dBm | | in distributions (distribution of the second se | | Contraction in the last of the local division of the local divisio | مركز بي المراجع | and the second | and a particular state of the s | all in the second s |
| | | | | | | | | |
| | | | | | | | | |
| 40 dBm | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 60 dBm | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 70 dBm | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 90 dBm | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 90.0 GHz | | 20001 pt | S | 1 | .0 GHz/ | | | 100.0 GF |
| | | | | | | | | 04.11.20 |

Δ

Plot 7-492. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High Channel Pol. H)



Plot 7-493. Radiated Spurious Plot 90 GHz – 100 GHz (50 MHz 2CC + 100 MHz 6CC NC BW QPSK High Channel Pol. V)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|---|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 205 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 285 of 322 |
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7.6 Band Edge Emissions §2.1051 §30.203

Test Overview

All out of band emissions are measured in a radiated setup while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All modulations were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is -13 dBm / 1 MHz. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be -5 dBm / MHz or lower.

Test Procedure Used

ANSI C63.26-2015 Section 5.7.3 ANSI C63.26-2015 Section 6.4 KDB 842590 D01 v01r01 Section 4.4.2.5

Test Settings

- 1. Start and stop frequency were set such that both upper and lower band edges are measured.
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW = 1 MHz
- 4. VBW \geq 3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
- 7. Trace mode = trace average
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

Test Notes

- 1) The EUT was tested while positioned upright and mounted on a mast 1.5 m height. The worst case emissions are reported with the EUT in this fixed position and with the modulations and active component carriers shown in the tables below.
- 2) All measurements in this section was performed in the radiated setup in the far field.
- 3) All appropriate Antenna Factor, Cable Loss, and Duty Correction factor have been applied in the spectrum analyzer for each measurement. Additionally, band Edge measurements in this section are shown as equivalent conductive powers for direct comparison to the 30.203 limit. The conductive power at the band edge is calculated by subtracting the gain of the EUT's antenna from the measured EIRP level. Antenna Gain information is shown on the following page.
- 4) For band edge measurement of the receive horn antenna was maximized on Antenna A were individually energized and measured while maintaining maximized position on Antenna A. These measurements were saved into a spreadsheet and their spectra were summed to determine the total conducted power for the band edge emissions level shown starting in Section 7.6.5. The same procedure was repeated with the receive horn antenna maximized on Antennas B, C, and D.

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|-----------------------|-------------------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dama 000 at 000 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 286 of 322 |
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- 5) The MIMO Band Edges were calculated by using the "measure and sum the spectra across the outputs" technique specified in Section 6.4.3.2.2 of ANSI C63.26-2015. The spectra were summed linearly and converted to dBm for comparison with the limit.
- 6) 10% outside of the channel bandwidth result should be referred from 7.5 Radiated Spurious and Harmonic Emissions due to EUT Antenna subtraction calculation adoption. Thus, some failure results are performed of TRP measurement adopted.
- A3LAT1K01-A10 test result is referenced as A3LAT1K01-A00 result which is difference of power type between AC(A3LAT1K01-A00) source and DC(A3LAT1K01-A10) source. Power supply condition is not affected to declared RF specification.

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|-----------------------|-------------------------------|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 207 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 287 of 322 |
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7.6.1 Antenna Gain Information at the Band Edge

The following antenna gain information is provided to demonstrate the antenna performance of the 27 to 28.85 GHz band. These antenna gains were subtracted from the measured EIRP levels at the lower and upper band edge frequencies to determine an equivalent conductive power that was compared directly with the §30.203 limits.

| Frequency [GHz] | Channel | Antenna Gain [dBi] | | | | |
|--------------------|---------|-----------------------|--|--|--|--|
| 27.50 | Low | 28.12 | | | | |
| 28.35 | High | 28.33 | | | | |
| | | | | | | |

Table 7-25. Antenna Gains at the Band Edges

Sample Analyzer Offset Calculation (at 27.50 GHz)

Measurement Antenna Factor = 39.54 dB/m

Cable Loss = 7.56 dB

Far Field Distance = 3.20 m

EUT Antenna Gain = 28.12 dBi

Duty Cycle Correction Factor = 1.37 dB

Analyzer Offset (dB) = AF (dB/m) + CL (dB) + 107 + $20\log_{10}(D) - 104.8 \text{ dB} - \text{Gain} (dBi) + \text{Duty Correction}$ factor (dB)

= 39.54 dB/m + 7.56 dB + 107 + 20log₁₀(3.20) - 104.8 dB - 28.12 dBi + 1.37 dB

= 32.65 dB

Sample Analyzer Offset Calculation (at 28.35 GHz)

Measurement Antenna Factor = 39.74 dB/m

Cable Loss = 7.77 dB

Far Field Distance = 3.20 m

- EUT Antenna Gain = 28.33 dBi
- Duty Cycle Correction Factor = 1.37 dB

Analyzer Offset (dB) = AF (dB/m) + CL (dB) + 107 + $20\log_{10}(D) - 104.8 \text{ dB} - \text{Gain} (dBi) + \text{Duty Correction}$ factor (dB)

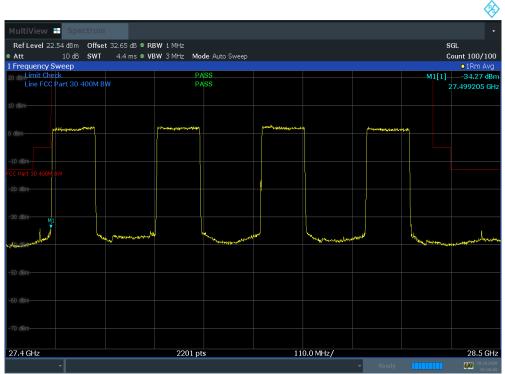
= 39.54 dB/m + 7.77 dB + 107 + 20log₁₀(3.20) - 104.8 dB - 28.33 dBi + 1.37 dB

= 32.85 dB

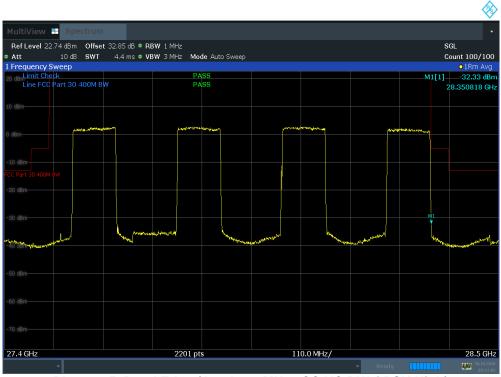
| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
|-----------------------|--|--|---------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dama 000 of 000 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 288 of 322 |
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7.6.2 Antenna A Conducted Band Edge Maximized on Antenna A



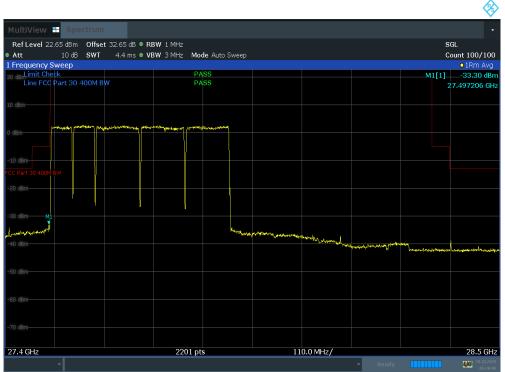
Plot 7-494. Band Edge (Ant A 100 MHz 4CC NC BW QPSK Low)



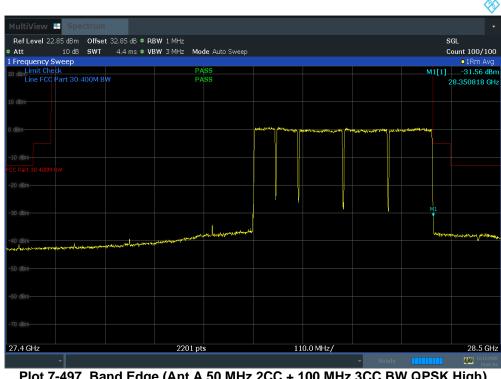
Plot 7-495. Band Edge (Ant A100 MHz 4CC NC BW QPSK High)

| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 200 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 289 of 322 |
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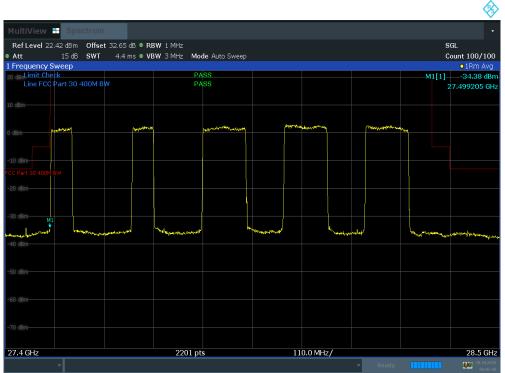
Plot 7-496. Band Edge (Ant A 50 MHz 2CC + 100 MHz 3CC BW QPSK Low)



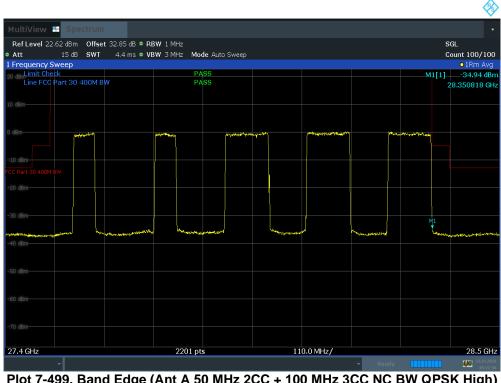
Plot 7-497. Band Edge (Ant A 50 MHz 2CC + 100 MHz 3CC BW QPSK High)

| FCC ID: A3LAT1K01-A10 | Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 200 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 290 of 322 |
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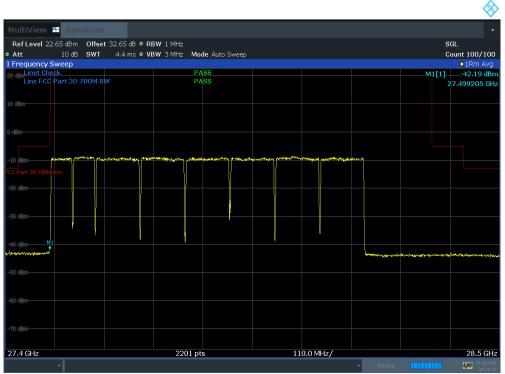




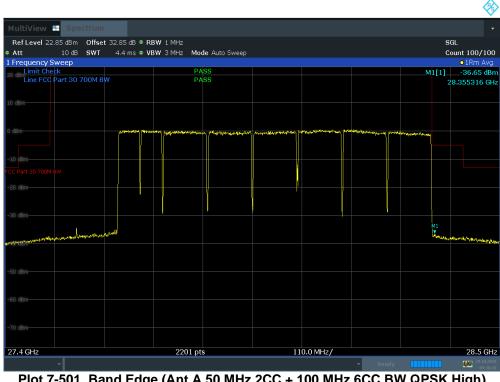
Plot 7-499. Band Edge (Ant A 50 MHz 2CC + 100 MHz 3CC NC BW QPSK High)

| FCC ID: A3LAT1K01-A10 | Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 201 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 291 of 322 |
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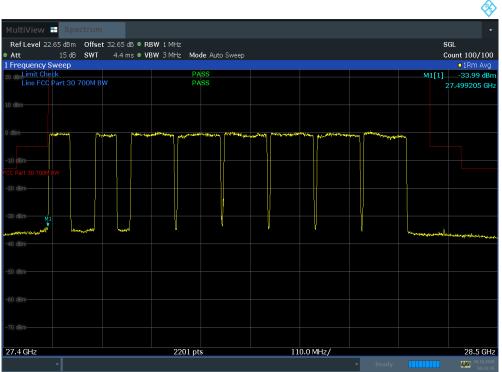
Plot 7-500. Band Edge (Ant A 50 MHz 2CC + 100 MHz 6CC BW QPSK Low)



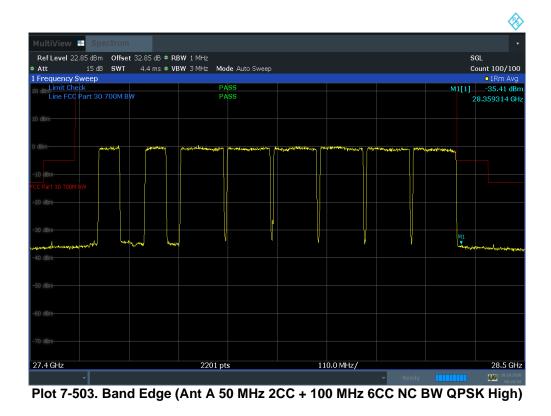
Plot 7-501. Band Edge (Ant A 50 MHz 2CC + 100 MHz 6CC BW QPSK High)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 292 of 322 |
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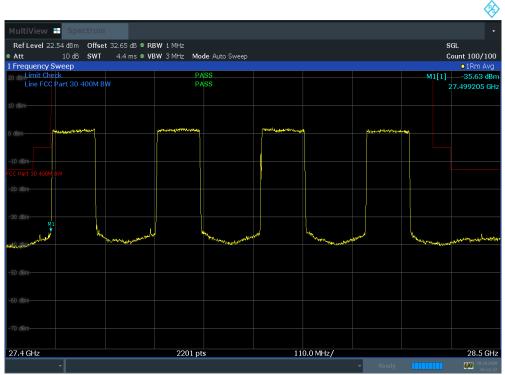
Plot 7-502. Band Edge (Ant A 50 MHz 2CC + 100 MHz 6CC NC BW QPSK Low)



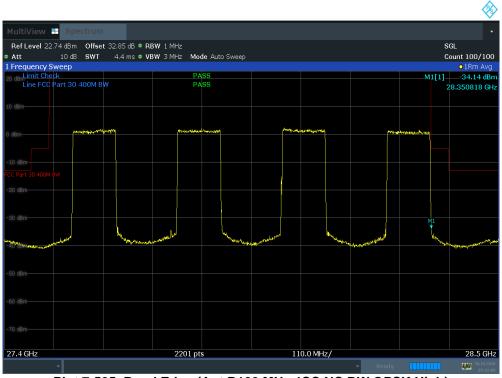
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Antenna B Conducted Band Edge Maximized on Antenna B 7.6.3



Plot 7-504. Band Edge (Ant B 100 MHz 4CC NC BW QPSK Low)

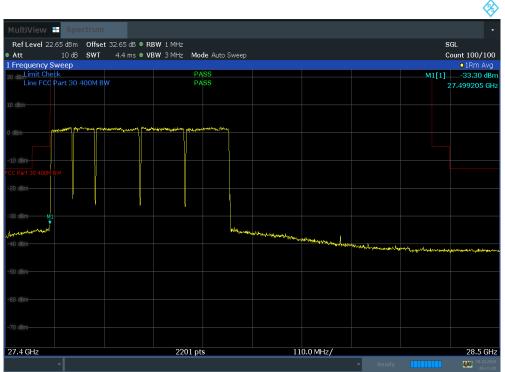


Plot 7-505. Band Edge (Ant B100 MHz 4CC NC BW QPSK High)

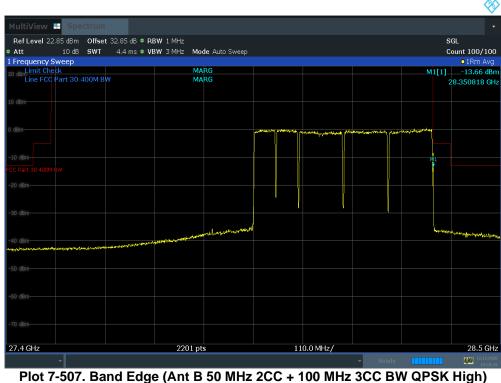
| FCC ID: A3LAT1K01-A10 | PCTEST* Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 294 of 322 |
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PK-QP-16-09 Rev.02



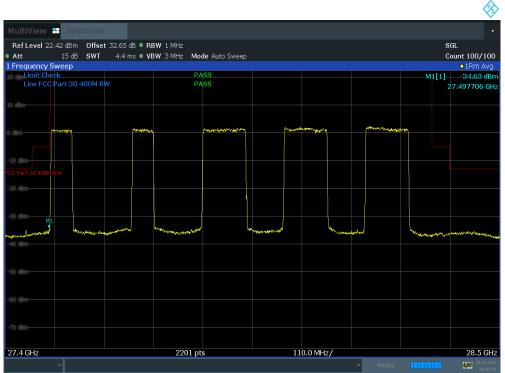


Plot 7-506. Band Edge (Ant B 50 MHz 2CC + 100 MHz 3CC BW QPSK Low)

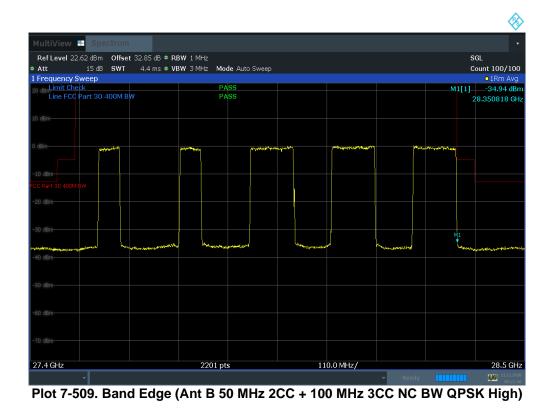


| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 205 of 202 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 295 of 322 |
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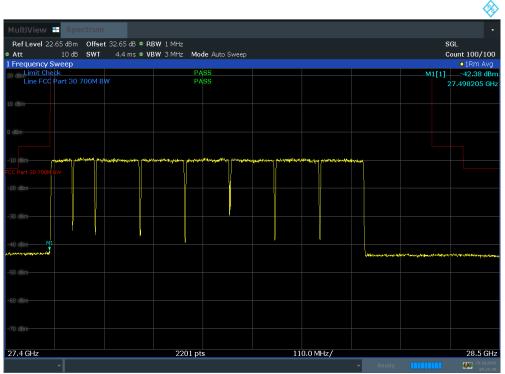


Plot 7-508. Band Edge (Ant B 50 MHz 2CC + 100 MHz 3CC NC BW QPSK Low)

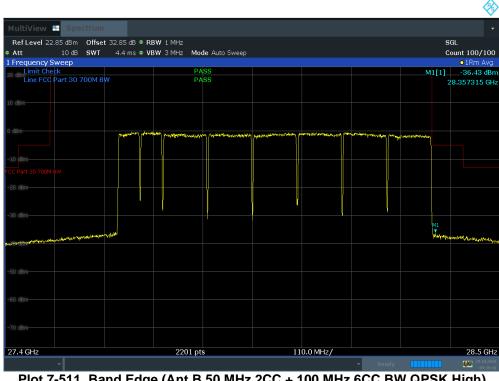


| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 200 of 200 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 296 of 322 |
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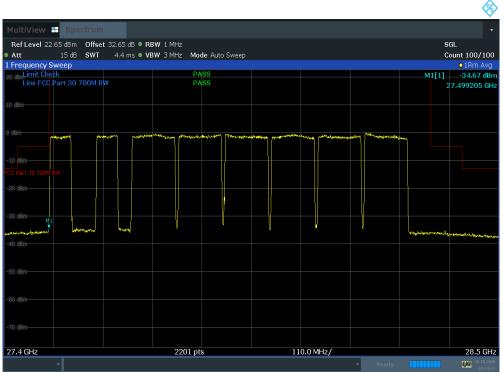
Plot 7-510. Band Edge (Ant B 50 MHz 2CC + 100 MHz 6CC BW QPSK Low)



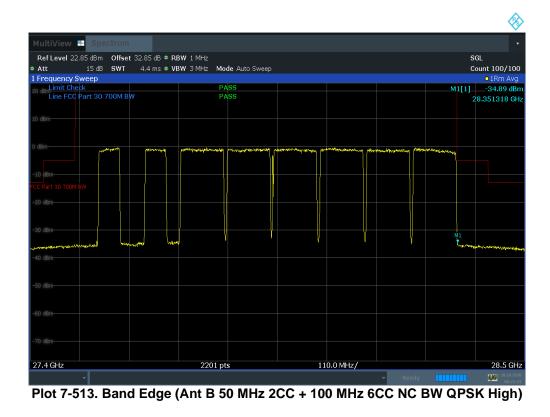
Plot 7-511. Band Edge (Ant B 50 MHz 2CC + 100 MHz 6CC BW QPSK High)

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| Test Report S/N: | Test Dates: | EUT Type: | | Daga 207 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 297 of 322 |
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Plot 7-512. Band Edge (Ant B 50 MHz 2CC + 100 MHz 6CC NC BW QPSK Low)

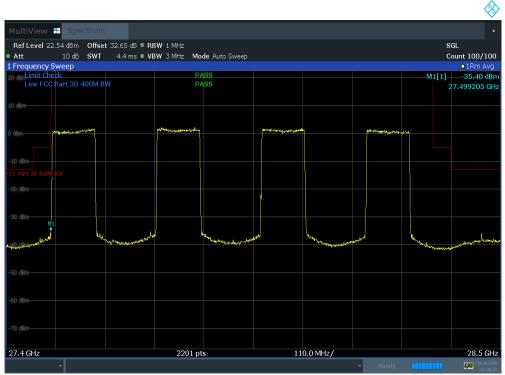


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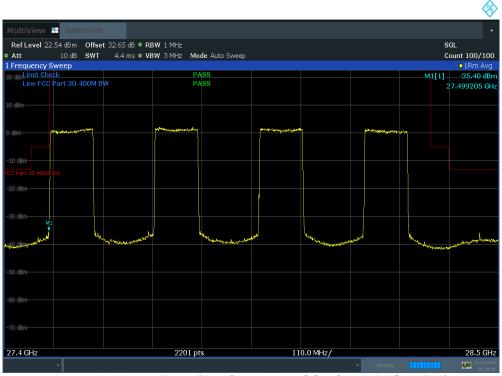
PK-QP-16-09 Rev.02



Antenna C Conducted Band Edge Maximized on Antenna C 7.6.4



Plot 7-514. Band Edge (Ant C 100 MHz 4CC NC BW QPSK Low)

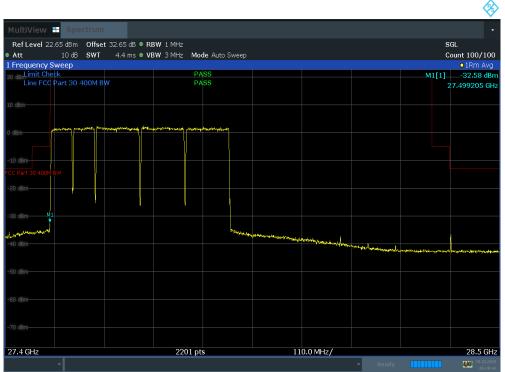


Plot 7-515. Band Edge (Ant C100 MHz 4CC NC BW QPSK High)

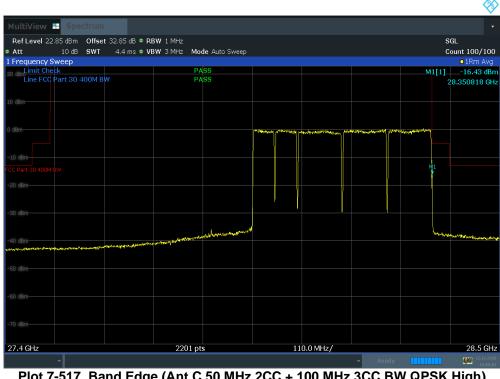
| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 200 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 299 of 322 |
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PK-QP-16-09 Rev.02





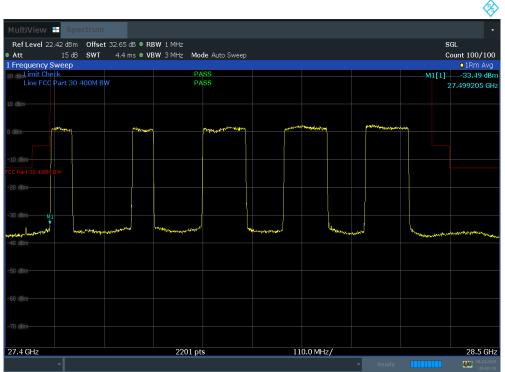
Plot 7-516. Band Edge (Ant C 50 MHz 2CC + 100 MHz 3CC BW QPSK Low)



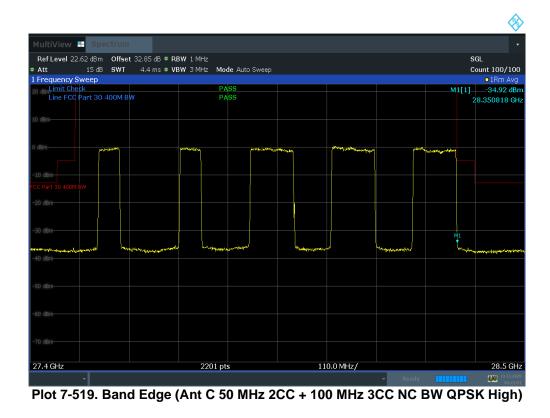
Plot 7-517. Band Edge (Ant C 50 MHz 2CC + 100 MHz 3CC BW QPSK High)

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| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 300 of 322 |
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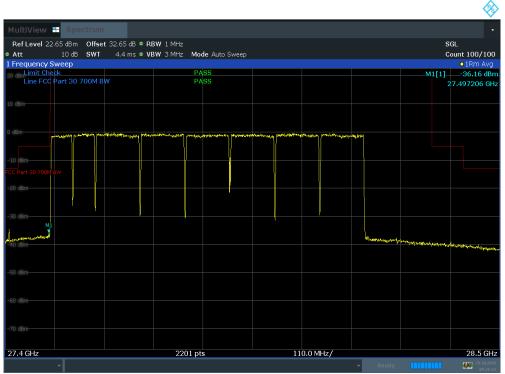


Plot 7-518. Band Edge (Ant C 50 MHz 2CC + 100 MHz 3CC NC BW QPSK Low)

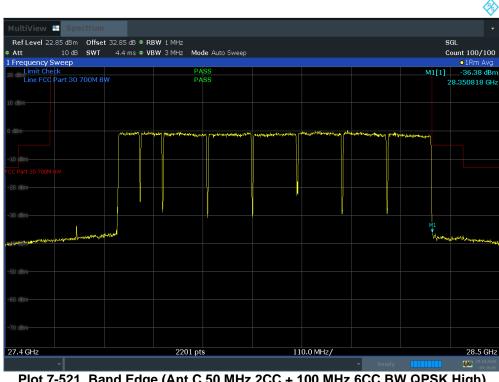


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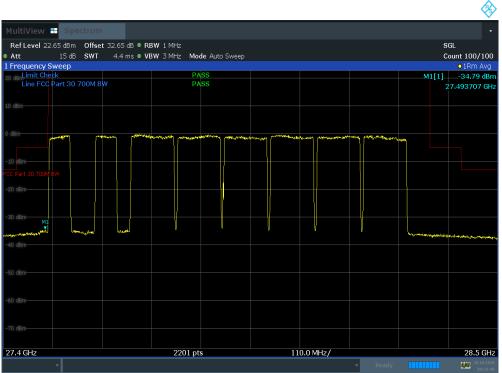
Plot 7-520. Band Edge (Ant C 50 MHz 2CC + 100 MHz 6CC BW QPSK Low)



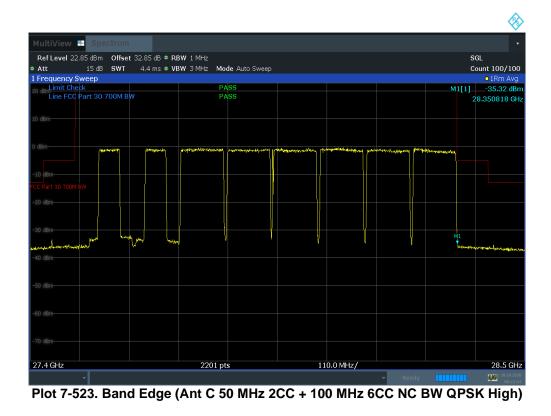
Plot 7-521. Band Edge (Ant C 50 MHz 2CC + 100 MHz 6CC BW QPSK High)

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| Test Report S/N: | Test Dates: | EUT Type: | | Dega 202 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 302 of 322 |
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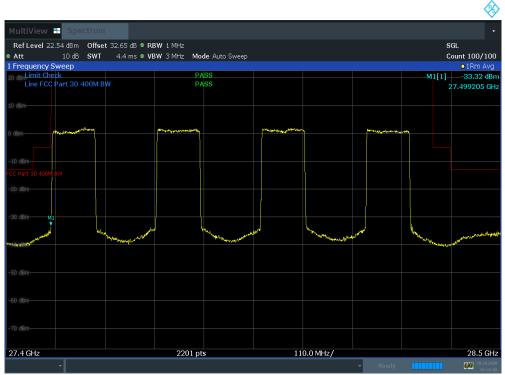
Plot 7-522. Band Edge (Ant C 50 MHz 2CC + 100 MHz 6CC NC BW QPSK Low)



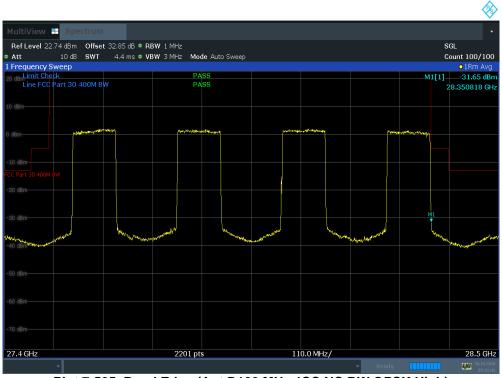
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| Test Report S/N: | Test Dates: | EUT Type: | | Dama 202 of 202 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 303 of 322 |
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Antenna D Conducted Band Edge Maximized on Antenna D 7.6.5



Plot 7-524. Band Edge (Ant D 100 MHz 4CC NC BW QPSK Low)

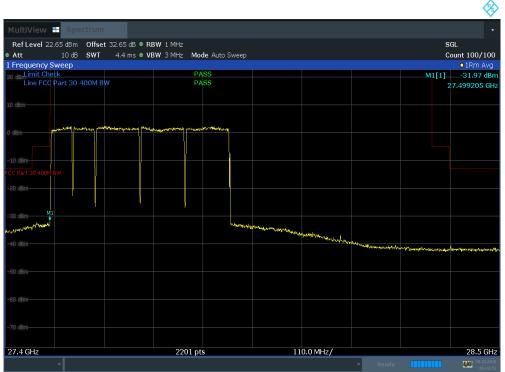


Plot 7-525. Band Edge (Ant D100 MHz 4CC NC BW QPSK High)

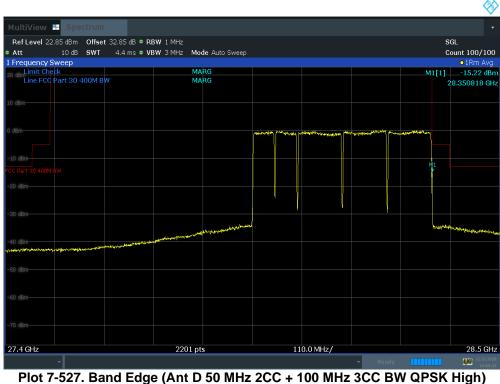
| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 304 of 322 |
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PK-QP-16-09 Rev.02



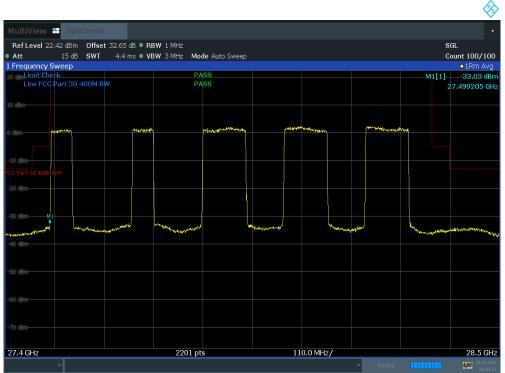


Plot 7-526. Band Edge (Ant D 50 MHz 2CC + 100 MHz 3CC BW QPSK Low)

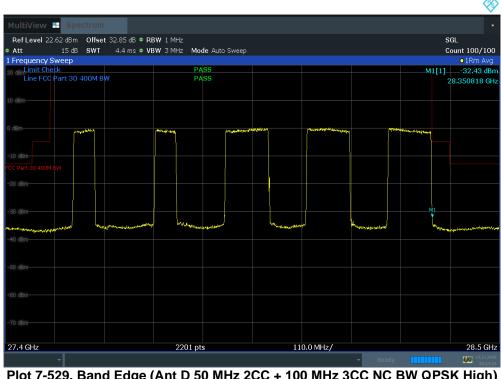


| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 205 of 222 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 305 of 322 |
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Plot 7-528. Band Edge (Ant D 50 MHz 2CC + 100 MHz 3CC NC BW QPSK Low)



Plot 7-529. Band Edge (Ant D 50 MHz 2CC + 100 MHz 3CC NC BW QPSK High)

| FCC ID: A3LAT1K01-A10 | PCTEST Proud to be part of @ element | MEASUREMENT REPORT (Class II Permissive Change) | SAMSUNG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Dage 206 of 200 |
| 8K20092801-02-R4.A3L | 10/27/2020-11/18/2020 | AU(AT1K01) | | Page 306 of 322 |
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