

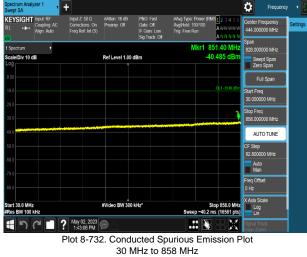


Plot 8-728. Conducted Spurious Emission Plot 895 MHz to 1 GHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE



Hora Coupled Hora Coupled Plot 8-730. Conducted Spurious Emission Plot 9 kHz to 150 kHz

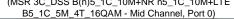
(MSR 2NC_NR n5_1C_5M+LTE B5_1C_5M_4T_QPSK - Mid Channel, Port 0)



(MSR 2NC_NR n5_1C_5M+LTE B5_1C_5M_4T_QPSK - Mid Channel, Port 0)

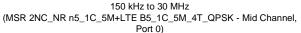
| KEYSIGHT Input Ri RL +++ Coupling Align: AL | AC Corrections: O | | PNO: Fast Gate: Off IF Gain: Low Sig Track: Off | #Avg Type: Power (RM Avg Hold: 50/50 Trig: Free Run | 15 <mark>123456</mark> Awwwww ANNNNN | Center Frequency 5.500000000 GHz Span | Settings |
|---------------------------------------------------|-------------------|-----------------|----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------|---------------------------------------------|----------|
| Spectrum Scale/Div 10 dB | | Ref Level 1.00 | dBm | | 89 52 GHz 2.930 dBm | 9.00000000 GHz Swept Span Zero Span | |
| | | | | | N 1 1 A S | Full Span | |
| 29.0 | | - | ومنافق ومحمد ومغمر ومرو | | | Start Freq 1.000000000 GHz | |
| 49.0 | | | | | | Stop Freq 10.00000000 GHz | |
| 59.0 | | | | | | AUTO TUNE CF Step 900.000000 MHz | |
| | | | | | | Auto Man | |
| | | | | | | Freq Offset 0 Hz | |
| tart 1.000 GHz Res BW 1.0 MHz | | #Video BW 3.0 P | MHz* | Steep ~19.1 r | op 10.000 GHz | X Axis Scale Log Lin | |

Plot 8-729. Conducted Spurious Emission Plot 1 GHz to 10 GHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE





Plot 8-731. Conducted Spurious Emission Plot





Plot 8-733. Conducted Spurious Emission Plot 858 MHz to 868 MHz

(MSR 2NC_NR n5_1C_5M+LTE B5_1C_5M_4T_QPSK - Mid Channel, Port 0)

| FCC ID: A3LRF4461D-13A | element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
|------------------------|-------------------------|---------------------------------------|---------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 244 of 404 |
| 8K23073101-00.A3L | 04/12/2023 - 08/03/2023 | RRU(RF4461d) | | Page 344 of 404 |
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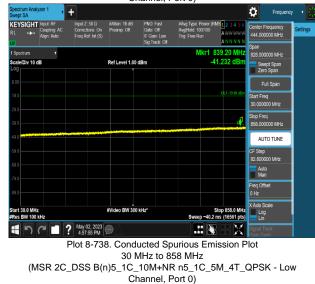
Plot 8-734. Conducted Spurious Emission Plot 895 MHz to 1 GHz

(MSR 2NC_NR n5_1C_5M+LTE B5_1C_5M_4T_QPSK - Mid Channel, Port 0)



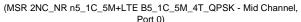
Plot 8-736. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_4T_QPSK - Low Channel, Port 0)



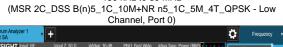


Plot 8-735. Conducted Spurious Emission Plot 1 GHz to 10 GHz





Plot 8-737. Conducted Spurious Emission Plot 150 kHz to 30 MHz





Plot 8-739. Conducted Spurious Emission Plot 858 MHz to 868 MHz

(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_4T_QPSK - Low Channel, Port 0)

| FCC ID: A3LRF4461D-13A | element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
|------------------------|-------------------------|---------------------------------------|---------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dere 245 of 404 |
| 8K23073101-00.A3L | 04/12/2023 - 08/03/2023 | RRU(RF4461d) | | Page 345 of 404 |
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KEYSIGHT

/Div 10 dE

Start 30.0 MHz #Res BW 100 kHz

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Input Z: 50 0 Corrections: On Freq Ref: Int (S)

Ref Level 1.00 dBm

#Video BW 300 kHz



Plot 8-740. Conducted Spurious Emission Plot 895 MHz to 1 GHz (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_4T_QPSK - Low



Plot 8-742. Conducted Spurious Emission Plot

9 kHz to 150 kHz

(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_4T_16QAM - Middle

Channel, Port 0)

X

6 00 N

Stop 858.0 MH

Х

Sweep ~40.2 ms (16561 pt

Ö

Freque

28.000000 MH

Swept Span Zero Span Full Span

art Freq

Stop Freq 858.0000

Auto Man

reg Offset

Log Lin

AUTO TUNE



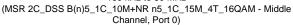
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Plot 8-741. Conducted Spurious Emission Plot 1 GHz to 10 GHz (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_5M_4T_QPSK - Low Channel, Port 0)



Plot 8-743. Conducted Spurious Emission Plot 150 kHz to 30 MHz





Plot 8-745. Conducted Spurious Emission Plot 858 MHz to 868 MHz

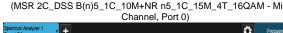
ES-QP-16-09 Rev.05

30 MHz to 858 MHz (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_4T_16QAM - Middle Channel, Port 0)

Plot 8-744. Conducted Spurious Emission Plot

(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_4T_16QAM - Middle Channel, Port 0)

| FCC ID: A3LRF4461D-13A | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|------------------------|-------------------------|---------------------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dega 246 of 404 |
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Plot 8-746. Conducted Spurious Emission Plot 895 MHz to 1 GHz

(MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_4T_16QAM - Middle Channel, Port 0)

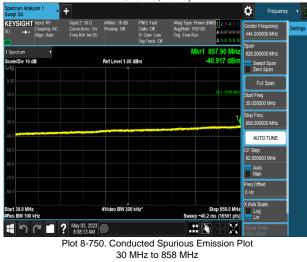


Plot 8-747. Conducted Spurious Emission Plot 1 GHz to 10 GHz (MSR 2C_DSS B(n)5_1C_10M+NR n5_1C_15M_4T_16QAM - Middle Channel, Port 0)



Plot 8-748. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(MSR 2NC_DSS B(n)5_1C_10M+NR n5_1C_5M_4T_QPSK - Middle Channel, Port 0)



Ö l+ Frequency KEYSIGHT Input F . мн: 00 MH: Ref Level -9.00 dBm -51.302 dE Div 10 dB Swept Span Zero Span 150.000 kHz Stop Freq 30.000000 MHz AUTO TUNE Auto Man rea Offse (Axis Scale #Video BW 30 kHz* Log Lin Sweep 120 ms (59) 1 pts) .:: 🔖 X

Plot 8-749. Conducted Spurious Emission Plot 150 kHz to 30 MHz (MSR 2NC_DSS B(n)5_1C_10M+NR n5_1C_5M_4T_QPSK - Middle



Plot 8-751. Conducted Spurious Emission Plot 858 MHz to 868 MHz

(MSR 2NC_DSS B(n)5_1C_10M+NR n5_1C_5M_4T_QPSK - Middle Channel, Port 0) (MSR 2NC_DSS B(n)5_1C_10M+NR n5_1C_5M_4T_QPSK - Middle Channel, Port 0)

| FCC ID: A3LRF4461D-13A | element) | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
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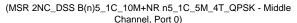
ctrum / pt SA

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Plot 8-752. Conducted Spurious Emission Plot 895 MHz to 1 GHz

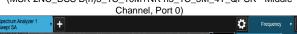


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Frequency

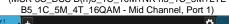


Plot 8-753. Conducted Spurious Emission Plot 1 GHz to 10 GHz (MSR 2NC_DSS B(n)5_1C_10M+NR n5_1C_5M_4T_QPSK - Middle





Plot 8-755. Conducted Spurious Emission Plot 150 kHz to 30 MHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE





Plot 8-757. Conducted Spurious Emission Plot 858 MHz to 868 MHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE

B5_1C_5M_4T_16QAM - Mid Channel, Port 1)

ES-QP-16-09 Rev.05

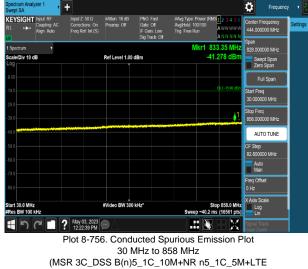
| B5_1C_5M_4T_16QAM - Mid Channel, Port | | rt 1) B5_1C_5M_4T_16QAM - Mid Channel, Port 1) | | |
|---------------------------------------|-------------------------|------------------------------------------------|---------|-----------------------------------|
| FCC ID: A3LRF4461D-13A | element) | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: | Test Dates: | EUT Type: | | Page 348 of 404 |
| 8K23073101-00.A3L | 04/12/2023 - 08/03/2023 | RRU(RF4461d) | | Faye 340 01 404 |

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Plot 8-754. Conducted Spurious Emission Plot 9 kHz to 150 kHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE

B5_1C_5M_4T_16QAM - Mid Channel, Port 1)







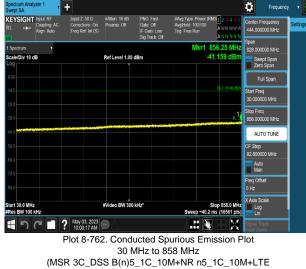
Plot 8-758. Conducted Spurious Emission Plot 895 MHz to 1 GHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE





Plot 8-760. Conducted Spurious Emission Plot 9 kHz to 150 kHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE

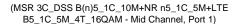
B5_1C_5M_4T_16QAM - Mid Channel, Port 0)



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Plot 8-759. Conducted Spurious Emission Plot 1 GHz to 10 GHz





Plot 8-761. Conducted Spurious Emission Plot 150 kHz to 30 MHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE

B5_1C_5M_4T_16QAM - Mid Channel, Port 0) Ö



Plot 8-763. Conducted Spurious Emission Plot 858 MHz to 868 MHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE

B5_1C_5M_4T_16QAM - Mid Channel, Port 0)

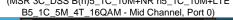
ES-QP-16-09 Rev.05

| B5_1C_5M_4T_16QAM - Mid Channel, Po | | t 0) B5_1C_5M_4T_16QAM - Mid Channel, Port 0) | | |
|-------------------------------------|-------------------------|-----------------------------------------------|---------|-----------------------------------|
| FCC ID: A3LRF4461D-13A | element) | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: | Test Dates: | EUT Type: | | Page 349 of 404 |
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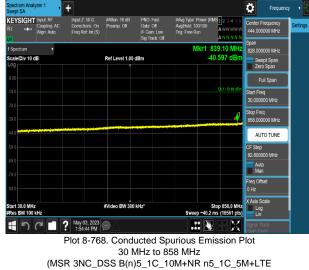
Plot 8-764. Conducted Spurious Emission Plot 895 MHz to 1 GHz (MSR 3C_DSS B(n)5_1C_10M+NR n5_1C_10M+LTE





Plot 8-766. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(MSR 3NC_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_4T_QPSK - Mid Channel, Port 0)

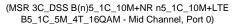


B5_1C_5M_4T_QPSK - Mid Channel, Port 0)

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Plot 8-765. Conducted Spurious Emission Plot 1 GHz to 10 GHz





Plot 8-767. Conducted Spurious Emission Plot 150 kHz to 30 MHz

(MSR 3NC_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE B5_1C_5M_4T_QPSK - Mid Channel, Port 0)



Plot 8-769. Conducted Spurious Emission Plot 858 MHz to 868 MHz (MSR 3NC_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE

B5_1C_5M_4T_QPSK - Mid Channel, Port 0)

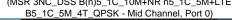
ES-QP-16-09 Rev.05

| FCC ID: A3LRF4461D-13A | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
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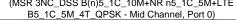


Plot 8-770. Conducted Spurious Emission Plot 895 MHz to 1 GHz (MSR 3NC_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE





Plot 8-771. Conducted Spurious Emission Plot 1 GHz to 10 GHz (MSR 3NC_DSS B(n)5_1C_10M+NR n5_1C_5M+LTE



Ö

150 kl

-48.934 dB

Frequency

ICO MH2

000 MH:

Swept Span Zero Span

Start Freq 150.000 kHz Stop Freq 30.000000 MHz

> AUTO TUNE Step

Auto Man

Freq Offse 0 Hz

(Axis Scale

Log Lin



z z start 150 kHz rese BW 10 kHz res

+

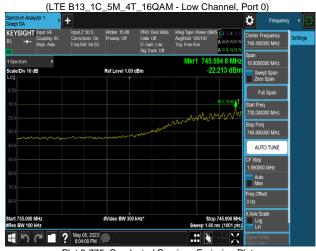
orrections: On reg Ref: Int (S

Ref Level -9.00 dBm

KEYSIGHT 🛛

e/Div 10 dE

150 kHz to 30 MHz



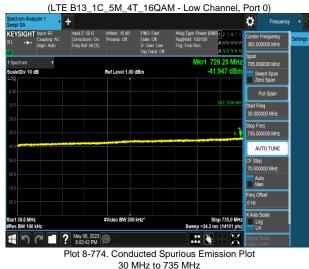
Plot 8-775. Conducted Spurious Emission Plot 735 MHz to 745.9 MHz

(LTE B13_1C_5M_4T_16QAM - Low Channel, Port 0)

| FCC ID: A3LRF4461D-13A | element | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Technical Manager |
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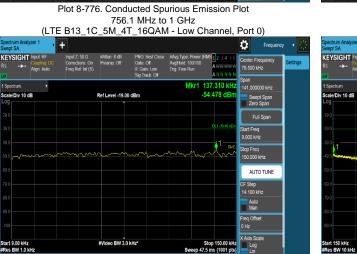
Plot 8-772. Conducted Spurious Emission Plot 9 kHz to 150 kHz

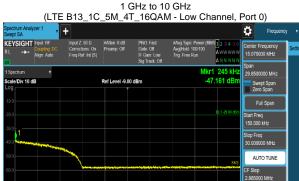


(LTE B13_1C_5M_4T_16QAM - Low Channel, Port 0)











Auto Man

X Axis Scale Log Lin

Stop 30.00 MHz Sweep 120 ms (5971 pts

150 kHz to 30 MHz

#Video BW 30 kHz



735 MHz to 745.9 MHz (LTE B13_1C_10M_4T_16QAM - Middle Channel, Port 1)

| FCC ID: A3LRF4461D-13A | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|------------------------|-------------------------|---------------------------------------|-----------------------------------|
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ä + Frequency KEYSIGHT 🔤 00 MHz 05.000000 MHz /Div 10 dB Ref Level 1.00 dBm 42.174 d Swept Span Zero Span

Start Freq 30.000000 MHz top Freq 735.00000 AUTO TUNE Auto Man eq Offse Axis Scale art 30.0 MHz es BW 100 kHz #Video BW 300 kHz Stop 735.0 Mi reep ~34.3 ms (14101 pi Log Lin モラ ペ I ? May 08, 2023 🗩 **...** X

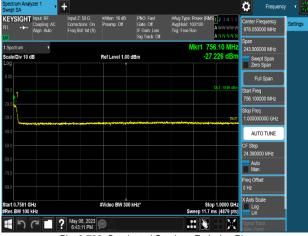
Plot 8-780. Conducted Spurious Emission Plot 30 MHz to 735 MHz (LTE B13_1C_10M_4T_16QAM - Middle Channel, Port 1)

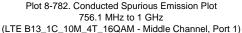
Plot 8-778. Conducted Spurious Emission Plot 9 kHz to 150 kHz (LTE B13_1C_10M_4T_16QAM - Middle Channel, Port 1)

X











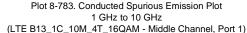
Plot 8-784. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(LTE B13_2C_5M+5M_4T_QPSK - Middle Channel, Port 0)



Plot 8-786. Conducted Spurious Emission Plot 30 MHz to 735 MHz (LTE B13_2C_5M+5M_4T_QPSK - Middle Channel, Port 0)

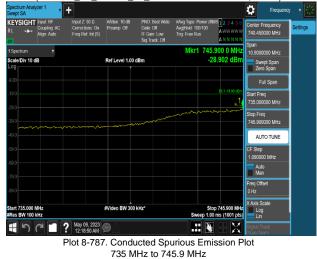






Plot 8-785. Conducted Spurious Emission Plot 150 kHz to 30 MHz

(LTE B13_2C_5M+5M_4T_QPSK - Middle Channel, Port 0)

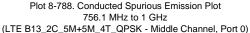


(LTE B13_2C_5M+5M_4T_QPSK - Middle Channel, Port 0)

| FCC ID: A3LRF4461D-13A | element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
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Plot 8-790. Conducted Spurious Emission Plot 9 kHz to 150 kHz

(LTE B13_1C_5M+NB-IoT(1IB)_4T_QPSK-High Channel, Port 0)



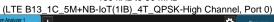
Plot 8-792. Conducted Spurious Emission Plot 30 MHz to 735 MHz (LTE B13_1C_5M+NB-IoT(1IB)_4T_QPSK-High Channel, Port 0)



Plot 8-789. Conducted Spurious Emission Plot 1 GHz to 10 GHz (LTE B13_2C_5M+5M_4T_QPSK - Middle Channel, Port 0)



Plot 8-791. Conducted Spurious Emission Plot 150 kHz to 30 MHz





(LTE B13_1C_5M+NB-IoT(1IB)_4T_QPSK-High Channel, Port 0)

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