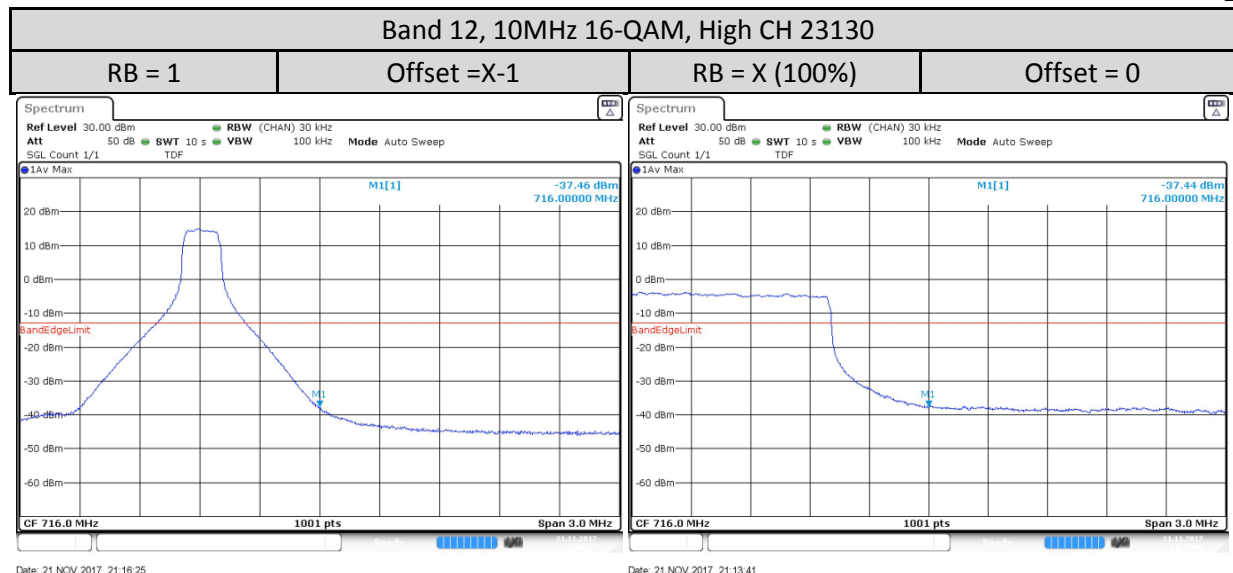
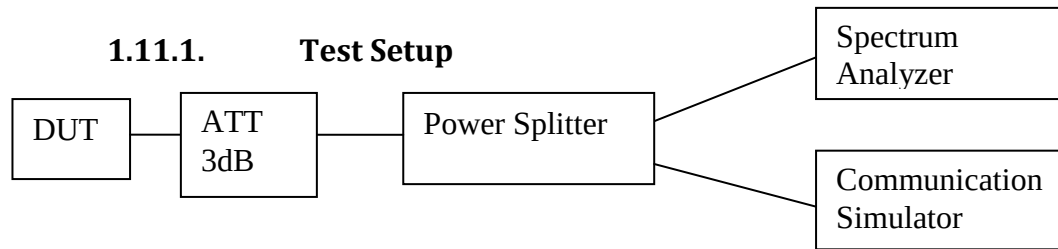




1.11. Conducted Spurious Emission

1.11.1. Test Setup



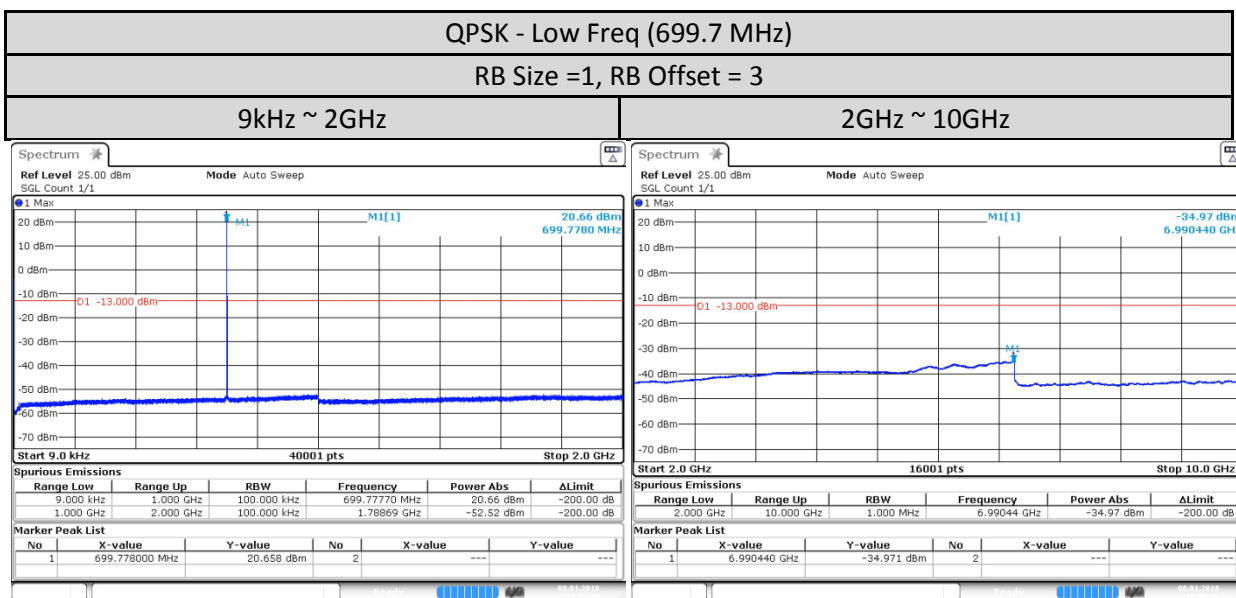
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) Spectrum Analyzer setting, RBW = 100 kHz or greater, VBW = 3*RBW.
- 5) The spurious emission of lowest, middle and highest channels with the highest RF powers were measured.
- 6) Record the maximum trace plot into the test report.

1.11.2. Test Limit

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

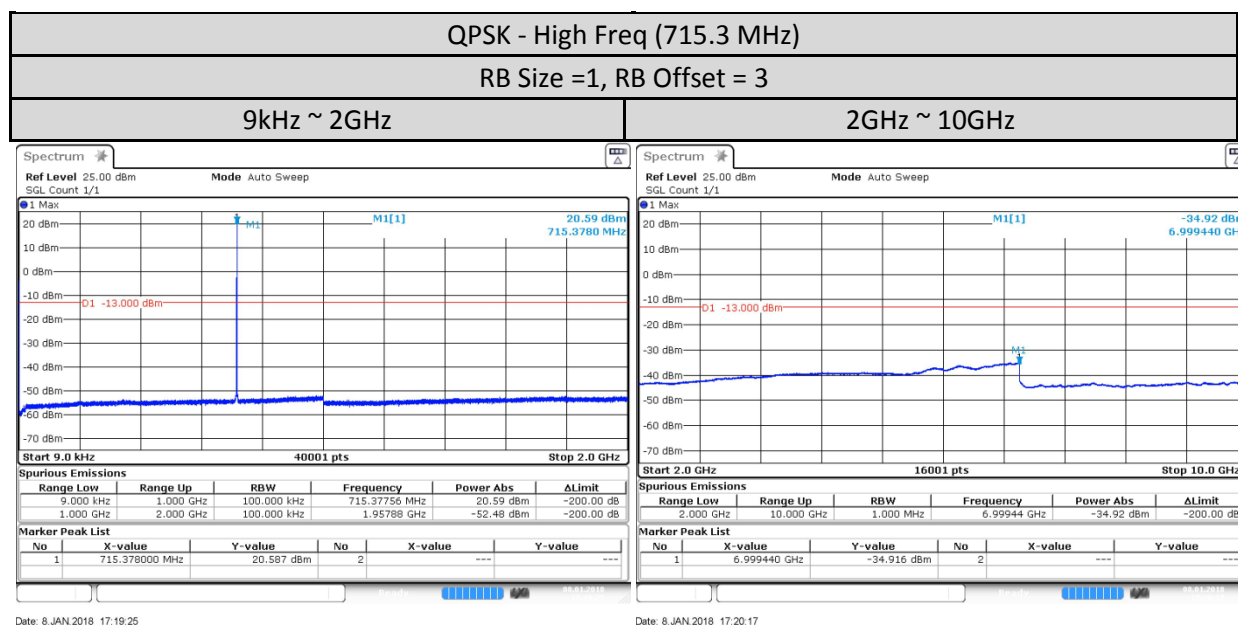
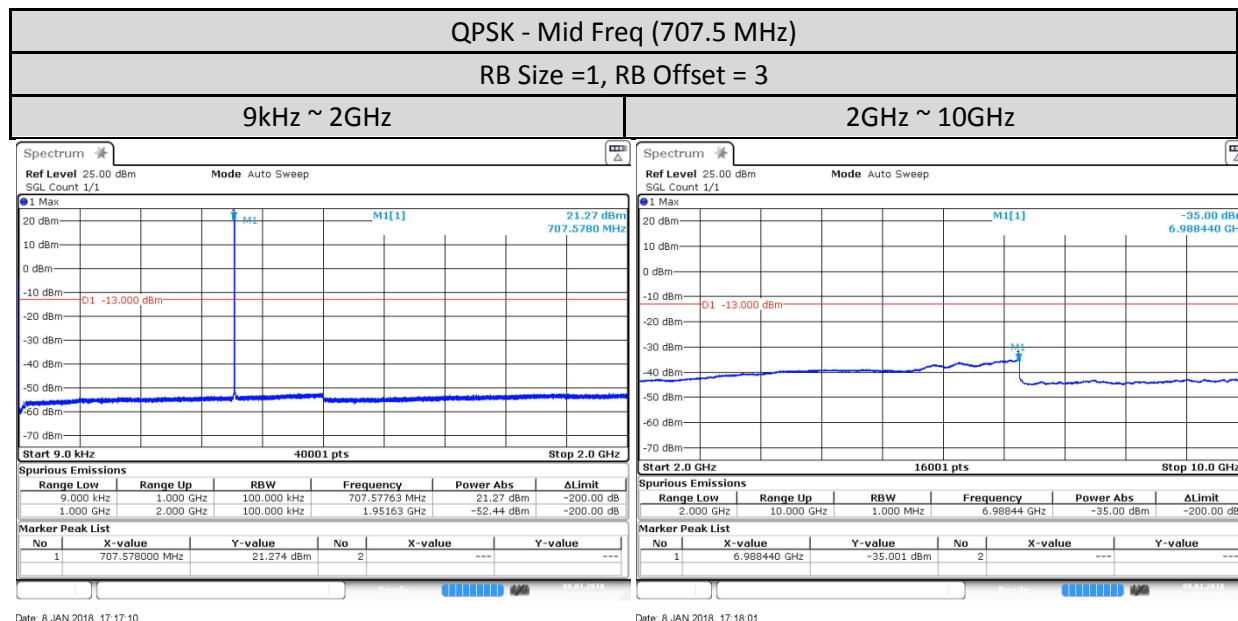
1.11.3. Conducted Spurious Emissions - LTE Band 12 (698-716MHz)

1.4MHz

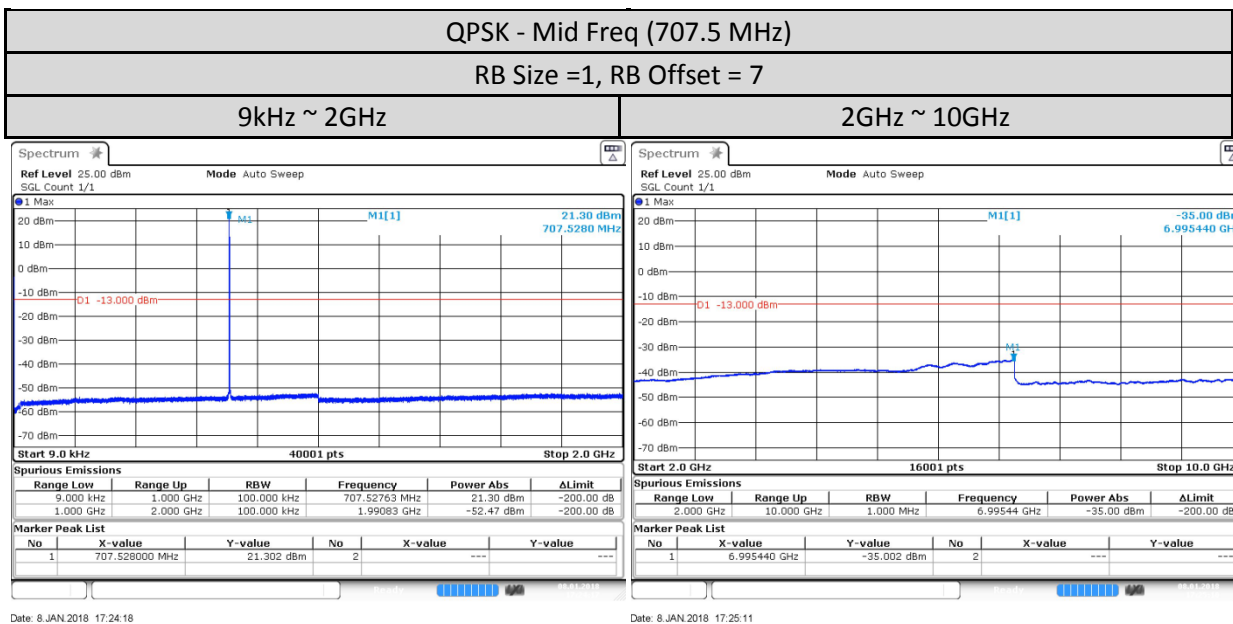
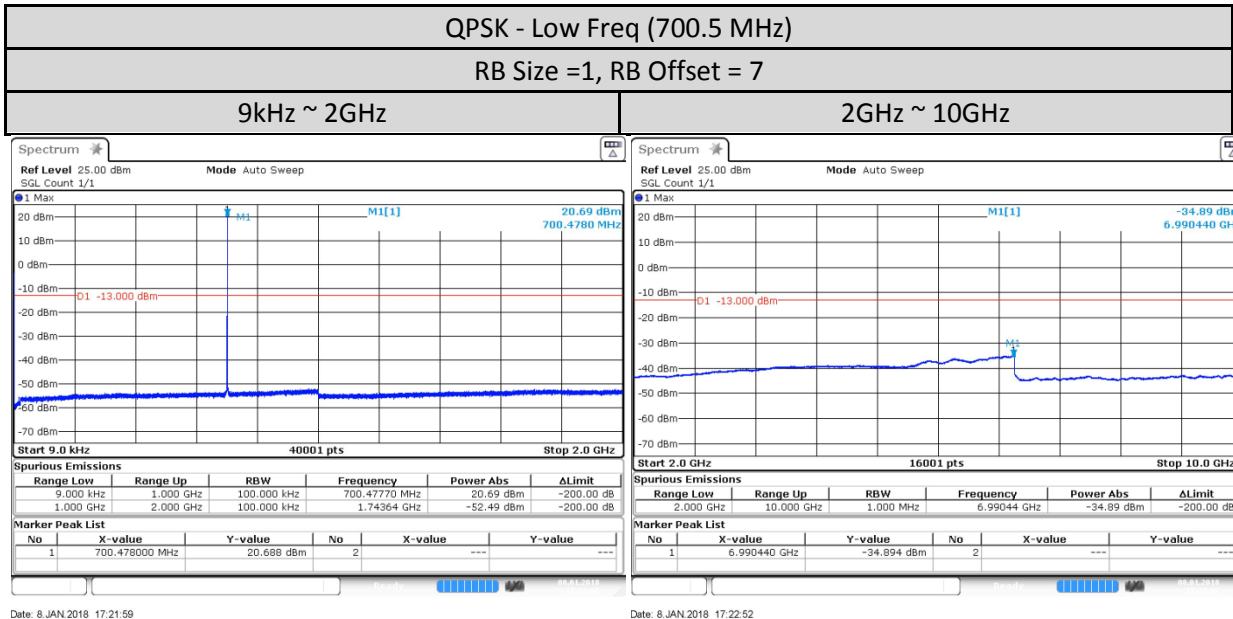


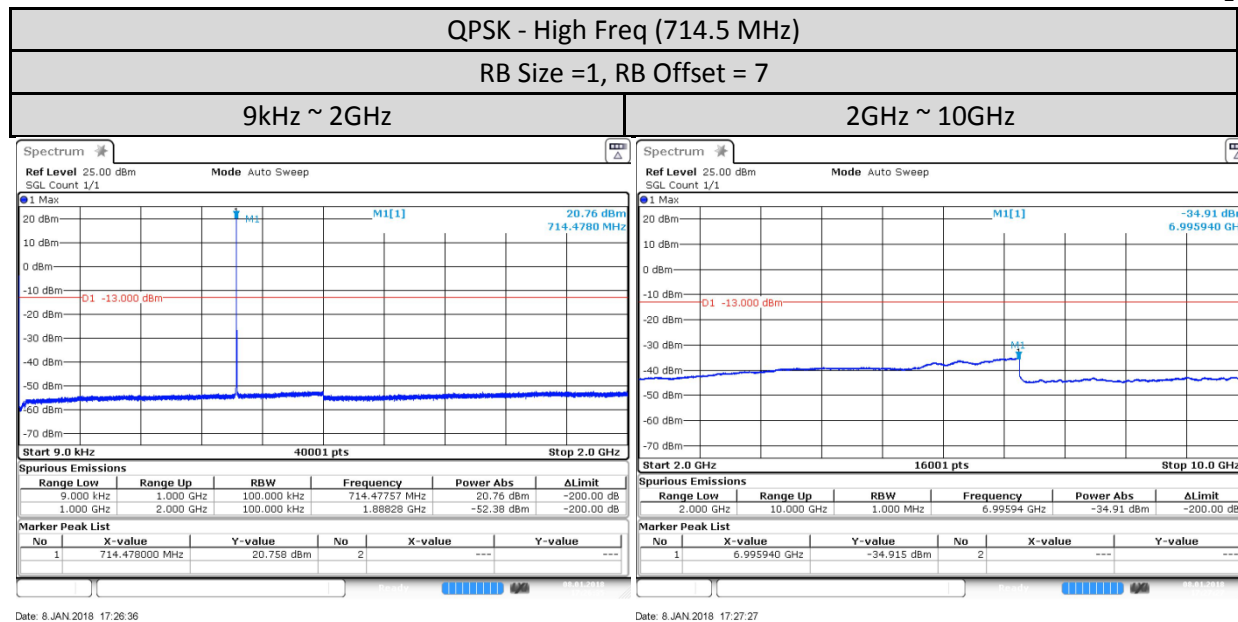
Date: 8 JAN 2018 17:14:55

Date: 8 JAN 2018 17:15:46

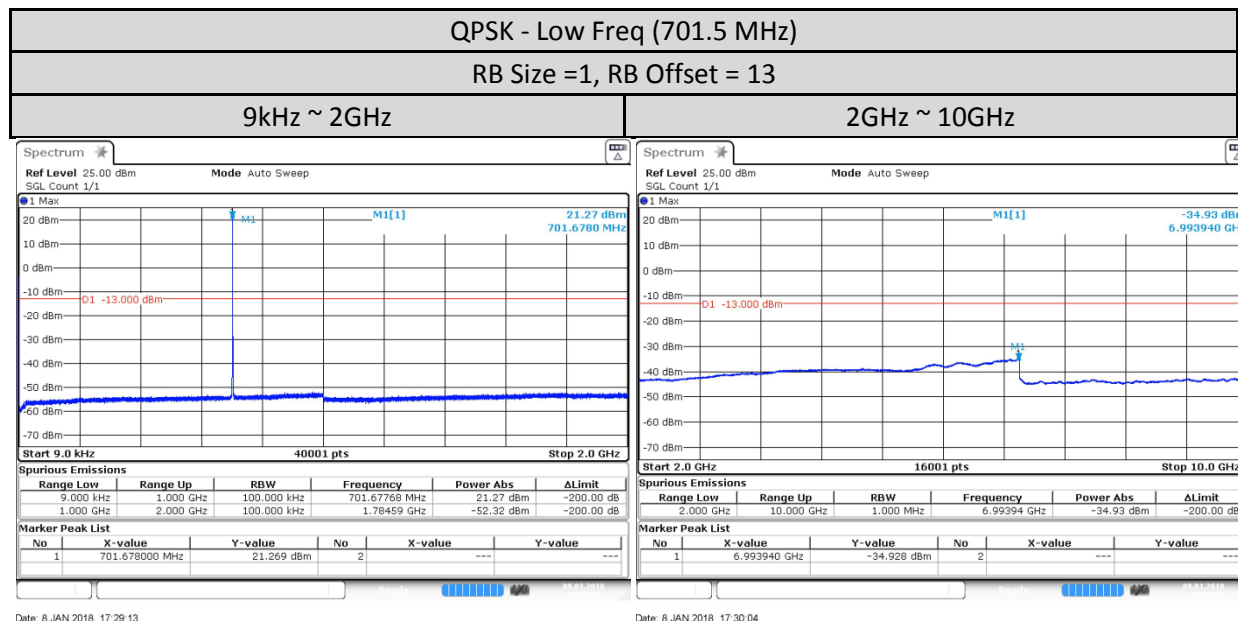


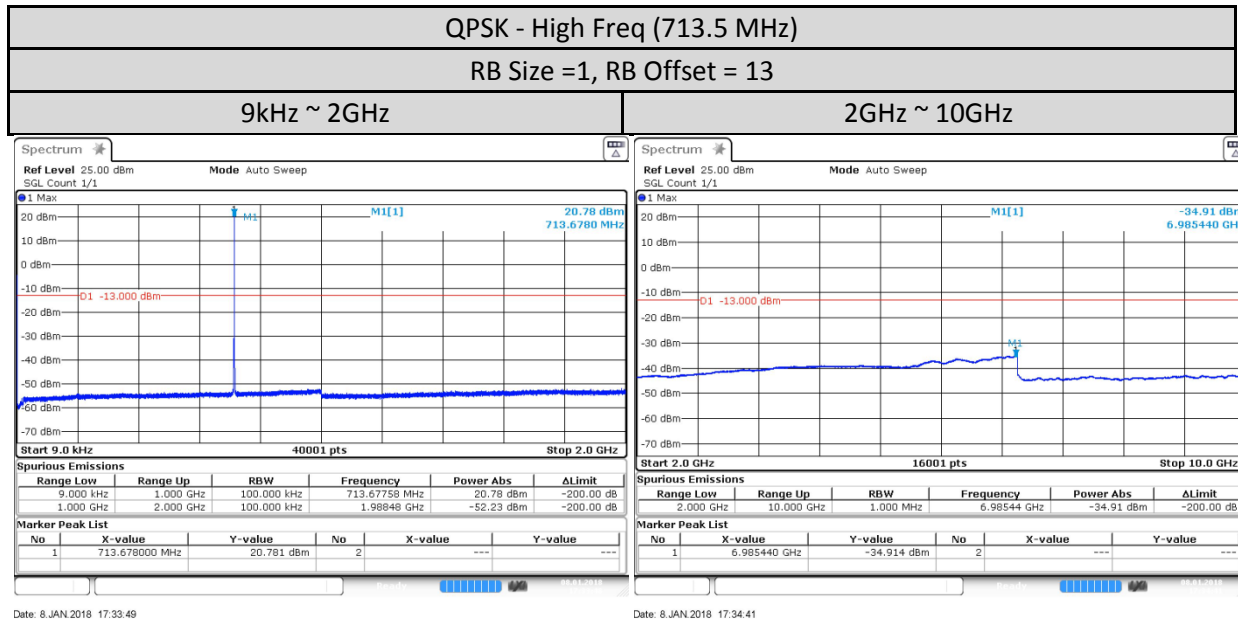
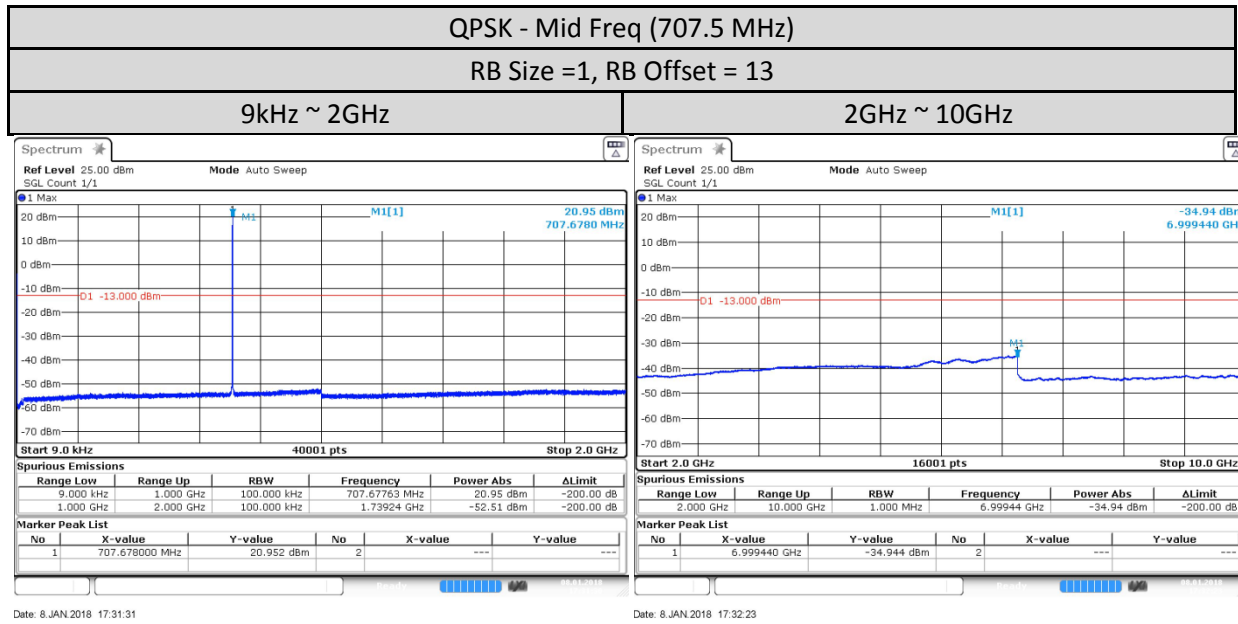
3MHz



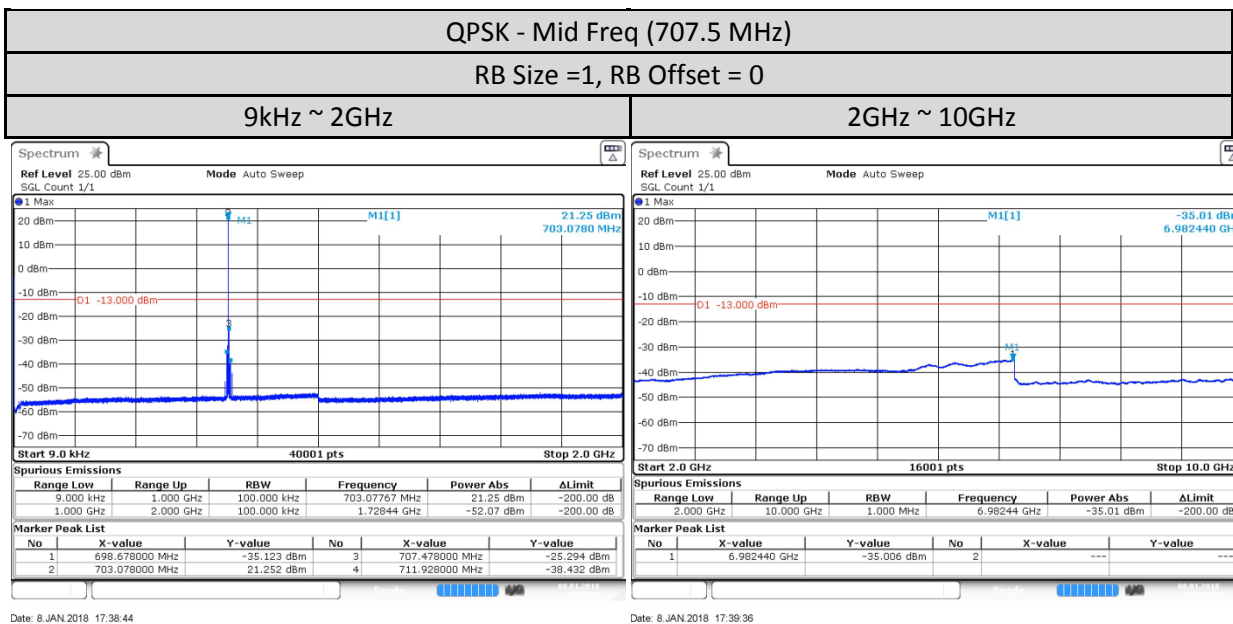
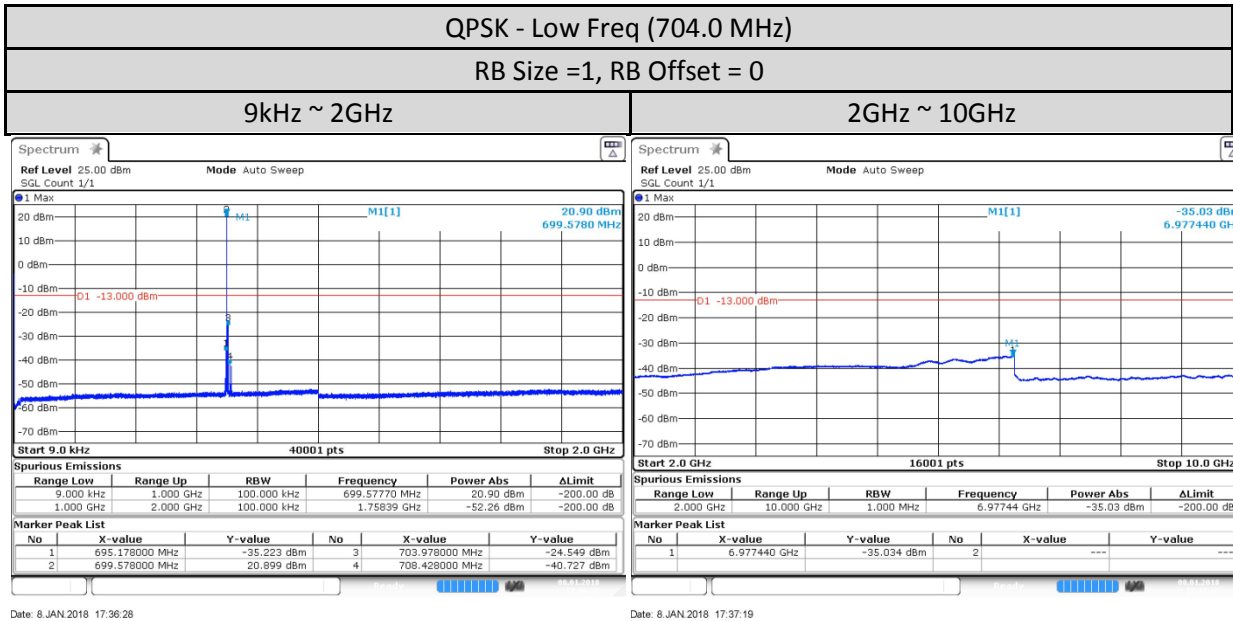


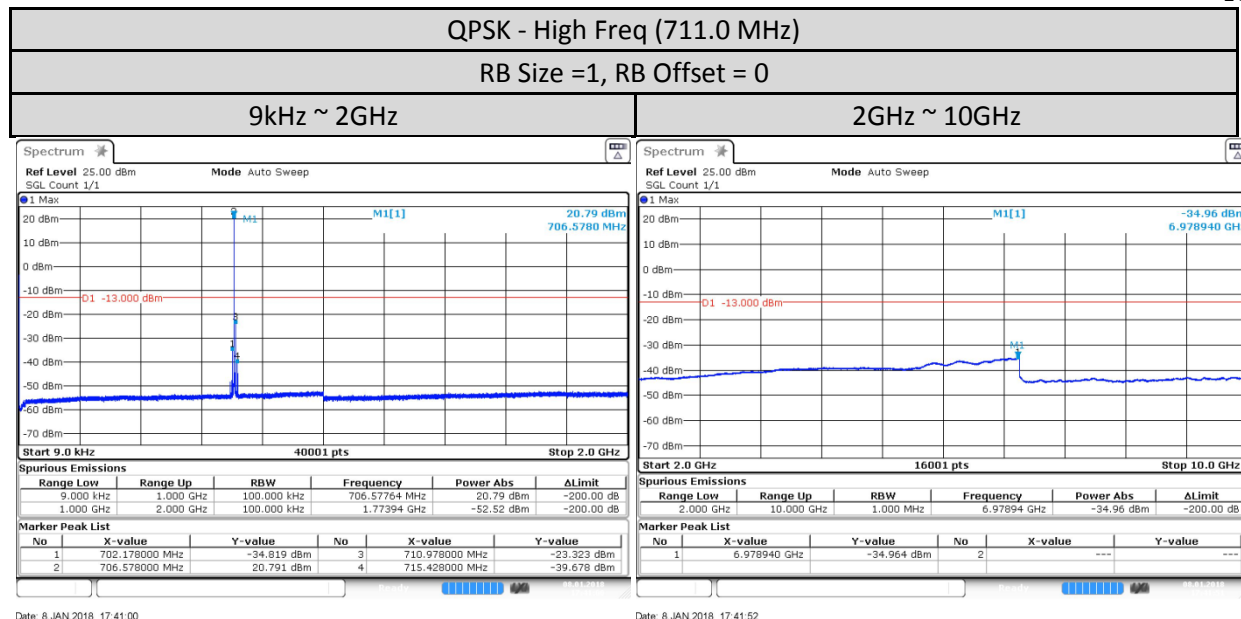
5MHz





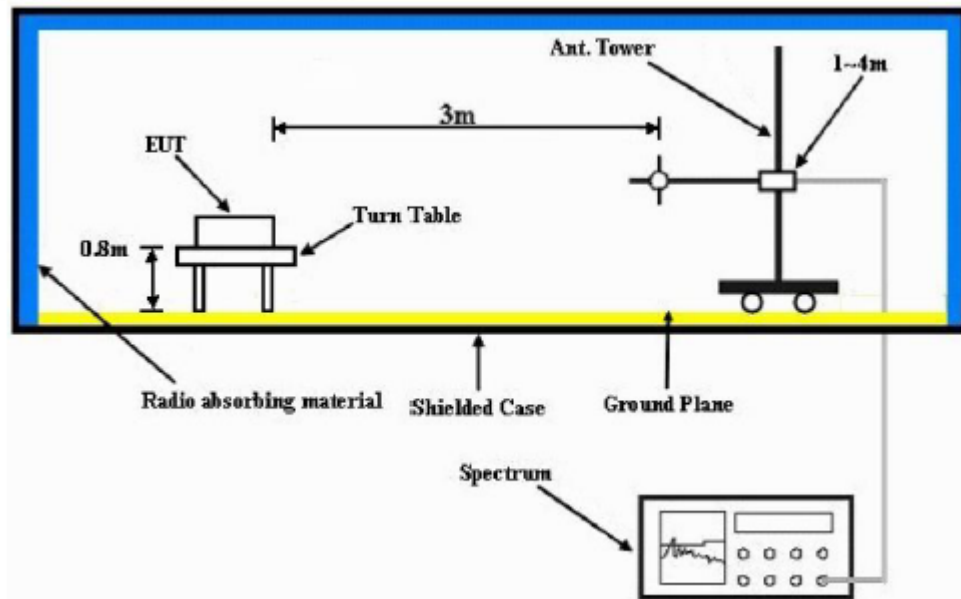
10MHz





1.12. Radiated Spurious Emission

1.12.1. Test Setup



- 1) The spectrum setting for scanning Radiated Emission below 1 GHz is RBW = 100 kHz, VBW = 300 kHz and above 1 GHz is RBW = 1MHz, VBW = 3MHz. Detector mode is positive peak.
- 2) In the semi-anechoic chamber, setup as illustrated above the EUT placed on the Turn Table at 0.8m height for below 1Ghz measurement and at 1.5m height for above 1GHz measurement, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- 3) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) Final Radiated Spurious Emission = “Read Value” + Measured substitution value.

1.12.2. Test Limit

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

1.12.3. Radiated Spurious Emission – LTE Band 12 (698-716MHz)

DC configuration: Link Mode 12V

Model Number: LEX L11n
 Battery Part No: PMNN4546A

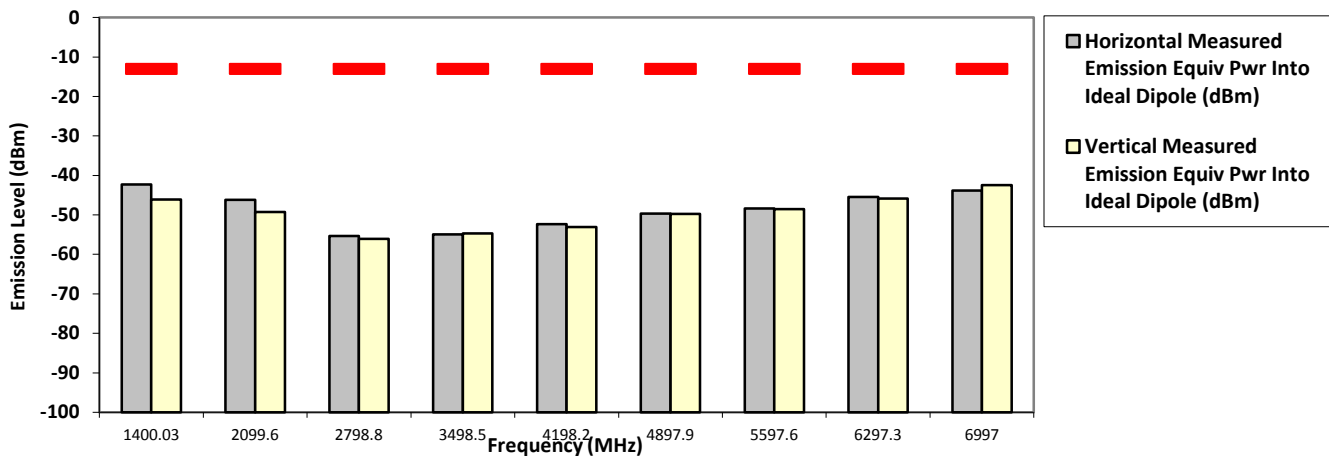
Link Mode Radiated Emission:
 S/N: 790TTV0214
 Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

SR:08397-EMC-00076

Test Mode: TX LTE (Band 12)
 699.700000 MHz (Low) Bandwidth 1.4MHz 0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1399.4000	-13.0000	-42.2900 *	-46.1200 *
2099.1000	-13.0000	-46.1500 *	-49.2400 *
2798.8000	-13.0000	-55.3588 **	-56.0984 **
3498.5000	-13.0000	-54.9005 **	-54.6692 **
4198.2000	-13.0000	-52.3845 **	-53.0745 **
4897.9000	-13.0000	-49.6391 **	-49.7269 **
5597.6000	-13.0000	-48.3645 **	-48.5666 **
6297.3000	-13.0000	-45.4778 **	-45.8379 **
6997.0000	-13.0000	-43.8180 **	-42.4179 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

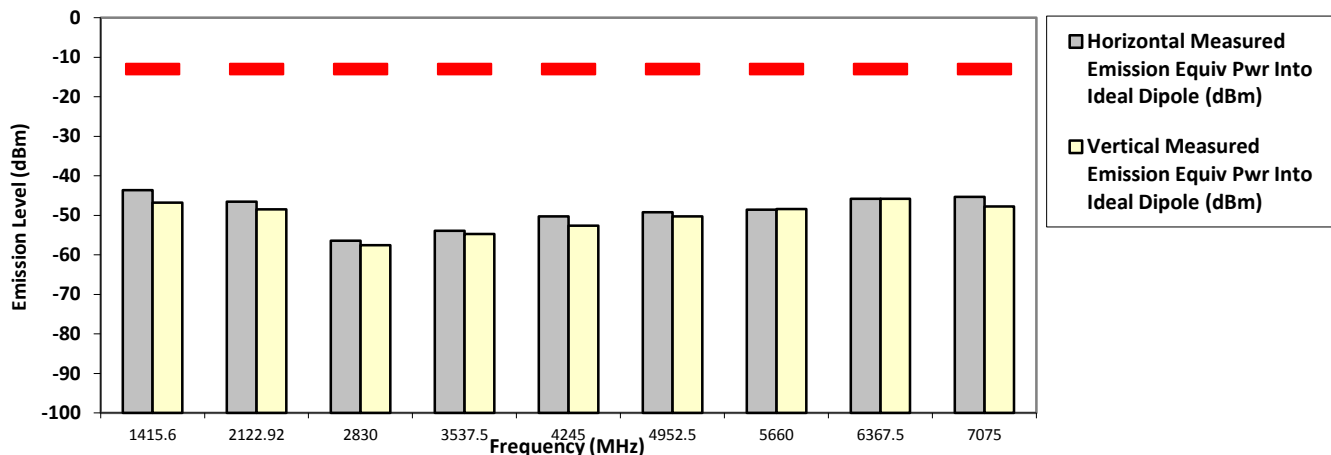
707.500000 MHz (Mid)

Bandwidth 1.4MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1415.0000	-13.0000	-43.6500 *	-46.8100 *
2122.5000	-13.0000	-46.5700 *	-48.5200 *
2830.0000	-13.0000	-56.4463 **	-57.5906 **
3537.5000	-13.0000	-53.9013 **	-54.7175 **
4245.0000	-13.0000	-50.2480 **	-52.6063 **
4952.5000	-13.0000	-49.1803 **	-50.2942 **
5660.0000	-13.0000	-48.5630 **	-48.3973 **
6367.5000	-13.0000	-45.8062 **	-45.8025 **
7075.0000	-13.0000	-45.3141 **	-47.7953 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

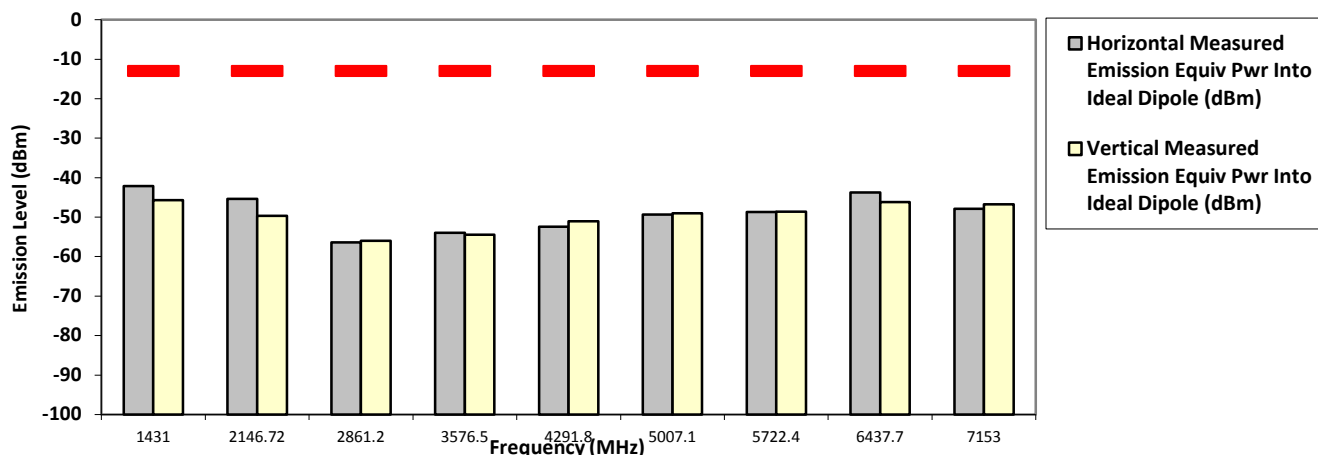
715.300000 MHz (High)

Bandwidth 1.4MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1430.6000	-13.0000	-42.1300 *	-45.7100 *
2145.9000	-13.0000	-45.3600 *	-49.6600 *
2861.2000	-13.0000	-56.3698 **	-56.0028 **
3576.5000	-13.0000	-53.9339 **	-54.4403 **
4291.8000	-13.0000	-52.4347 **	-51.0235 **
5007.1000	-13.0000	-49.3768 **	-49.0154 **
5722.4000	-13.0000	-48.6823 **	-48.6277 **
6437.7000	-13.0000	-43.7266 **	-46.1723 **
7153.0000	-13.0000	-47.8652 **	-46.7898 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

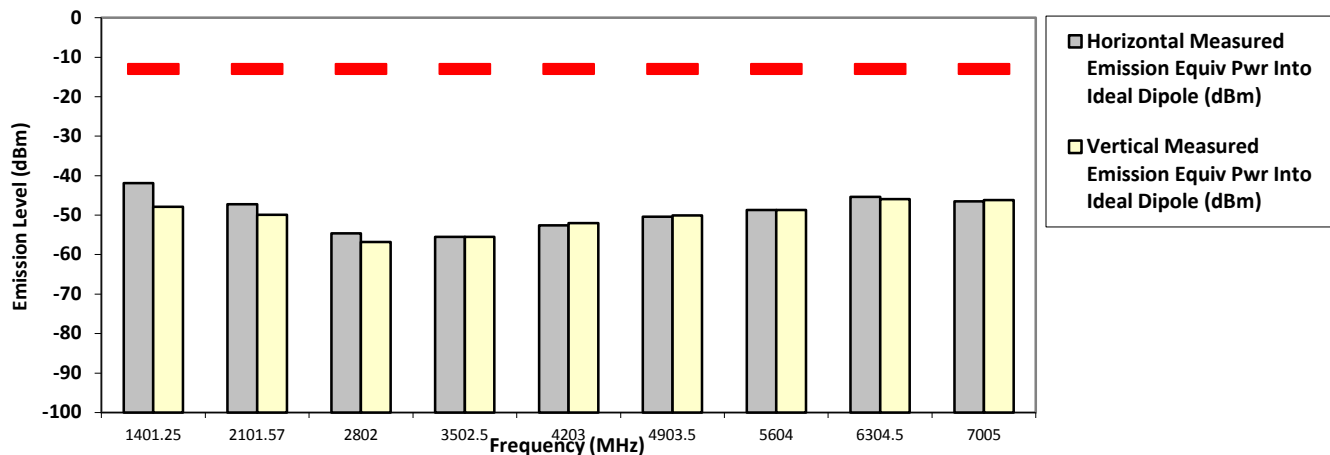
700.500000 MHz (Low)

Bandwidth 3MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1401.0000	-13.0000	-41.8900 *	-47.8800 *
2101.5000	-13.0000	-47.2500 *	-49.9100 *
2802.0000	-13.0000	-54.5768 **	-56.8318 **
3502.5000	-13.0000	-55.4711 **	-55.5050 **
4203.0000	-13.0000	-52.6128 **	-52.0245 **
4903.5000	-13.0000	-50.4094 **	-50.0876 **
5604.0000	-13.0000	-48.7122 **	-48.6609 **
6304.5000	-13.0000	-45.4044 **	-45.9600 **
7005.0000	-13.0000	-46.4772 **	-46.2169 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

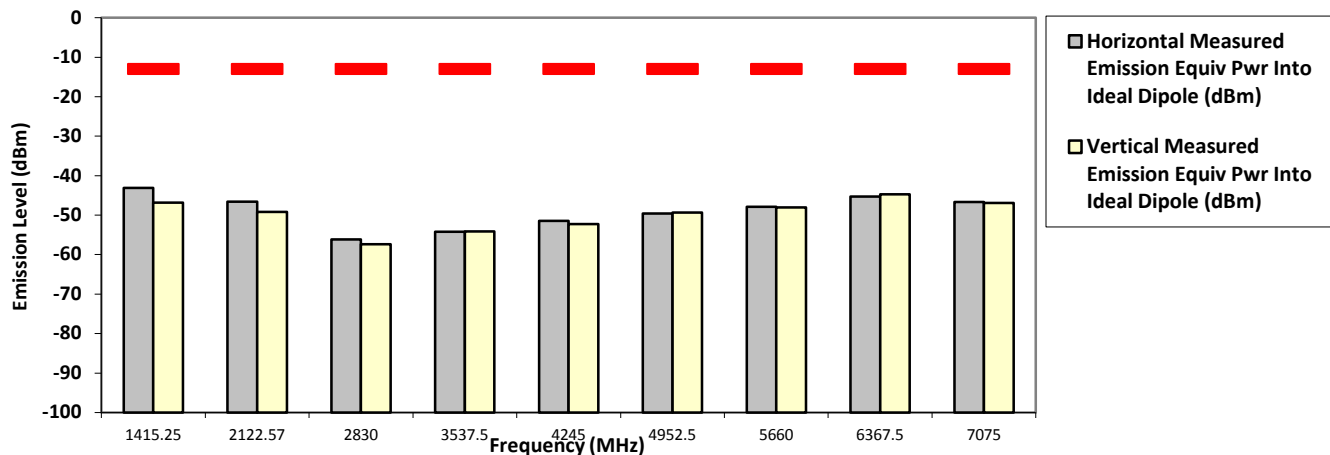
707.500000 MHz (Mid)

Bandwidth 3MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1415.0000	-13.0000	-43.1300 *	-46.8200 *
2122.5000	-13.0000	-46.6300 *	-49.1600 *
2830.0000	-13.0000	-56.1729 **	-57.3815 **
3537.5000	-13.0000	-54.2002 **	-54.1376 **
4245.0000	-13.0000	-51.4913 **	-52.2265 **
4952.5000	-13.0000	-49.6004 **	-49.3616 **
5660.0000	-13.0000	-47.8925 **	-48.0628 **
6367.5000	-13.0000	-45.3313 **	-44.7379 **
7075.0000	-13.0000	-46.6702 **	-46.9149 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

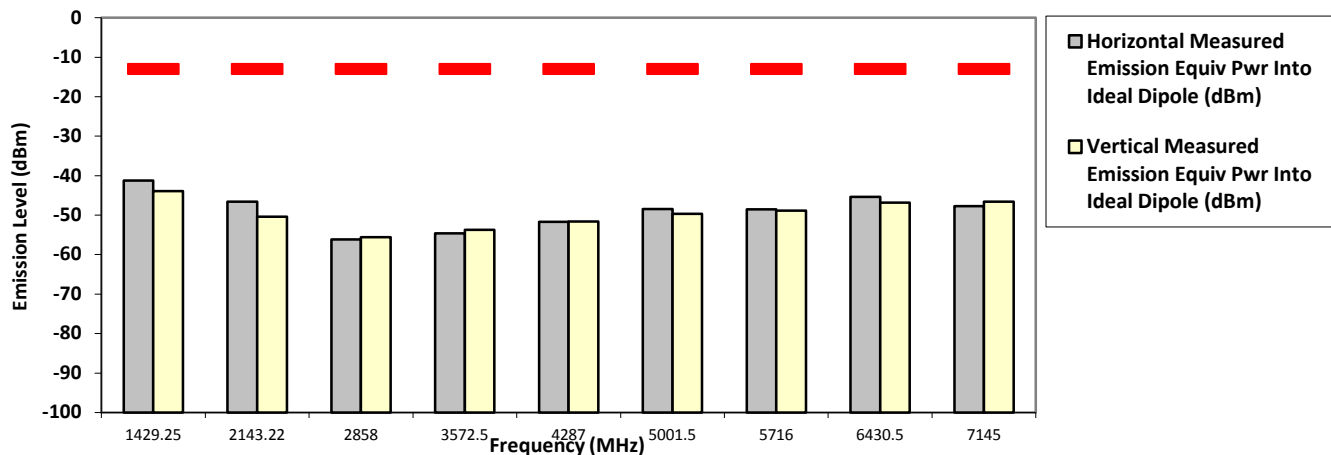
714.500000 MHz (High)

Bandwidth 3MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1429.0000	-13.0000	-41.2000 *	-43.9300 *
2143.5000	-13.0000	-46.5800 *	-50.4000 *
2858.0000	-13.0000	-56.1211 **	-55.5684 **
3572.5000	-13.0000	-54.6184 **	-53.7066 **
4287.0000	-13.0000	-51.6715 **	-51.6235 **
5001.5000	-13.0000	-48.4899 **	-49.6667 **
5716.0000	-13.0000	-48.5550 **	-48.8676 **
6430.5000	-13.0000	-45.3725 **	-46.8348 **
7145.0000	-13.0000	-47.7249 **	-46.6105 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

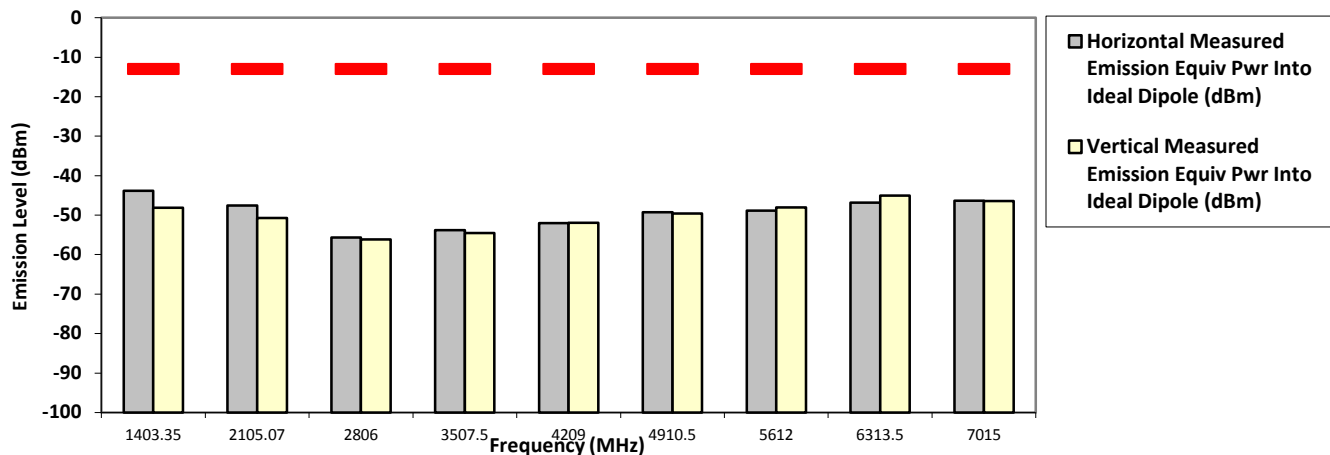
701.500000 MHz (Low)

Bandwidth 5MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1403.0000	-13.0000	-43.8500 *	-48.1100 *
2104.5000	-13.0000	-47.5900 *	-50.7000 *
2806.0000	-13.0000	-55.6953 **	-56.1806 **
3507.5000	-13.0000	-53.8148 **	-54.5301 **
4209.0000	-13.0000	-52.0483 **	-51.9736 **
4910.5000	-13.0000	-49.2739 **	-49.5718 **
5612.0000	-13.0000	-48.8451 **	-48.0467 **
6313.5000	-13.0000	-46.8440 **	-45.0800 **
7015.0000	-13.0000	-46.3502 **	-46.4313 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

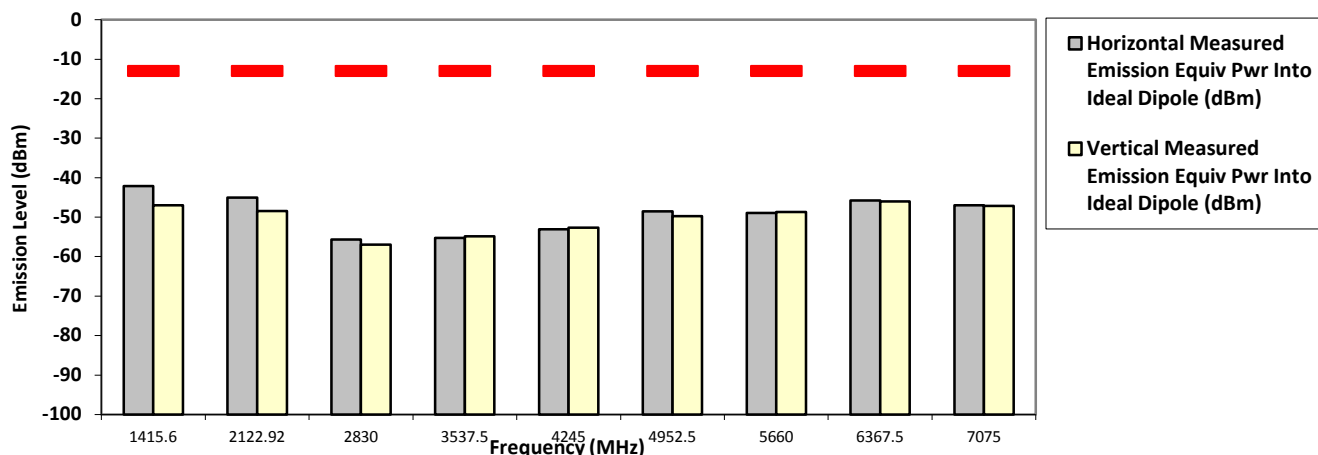
Link Mode Radiated Emission:
 S/N: 790TTV0214
 Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 12)
 Bandwidth 5MHz

SR:08397-EMC-00076
 0.252 Watt(s) /Max Power

707.500000 MHz (Mid)

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1415.0000	-13.0000	-42.1200 *	-47.0100 *
2122.5000	-13.0000	-45.0500 *	-48.4800 *
2830.0000	-13.0000	-55.7058 **	-56.9353 **
3537.5000	-13.0000	-55.2580 **	-54.8442 **
4245.0000	-13.0000	-53.0730 **	-52.6455 **
4952.5000	-13.0000	-48.5507 **	-49.7839 **
5660.0000	-13.0000	-48.9398 **	-48.7136 **
6367.5000	-13.0000	-45.7694 **	-46.0258 **
7075.0000	-13.0000	-47.0001 **	-47.1618 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

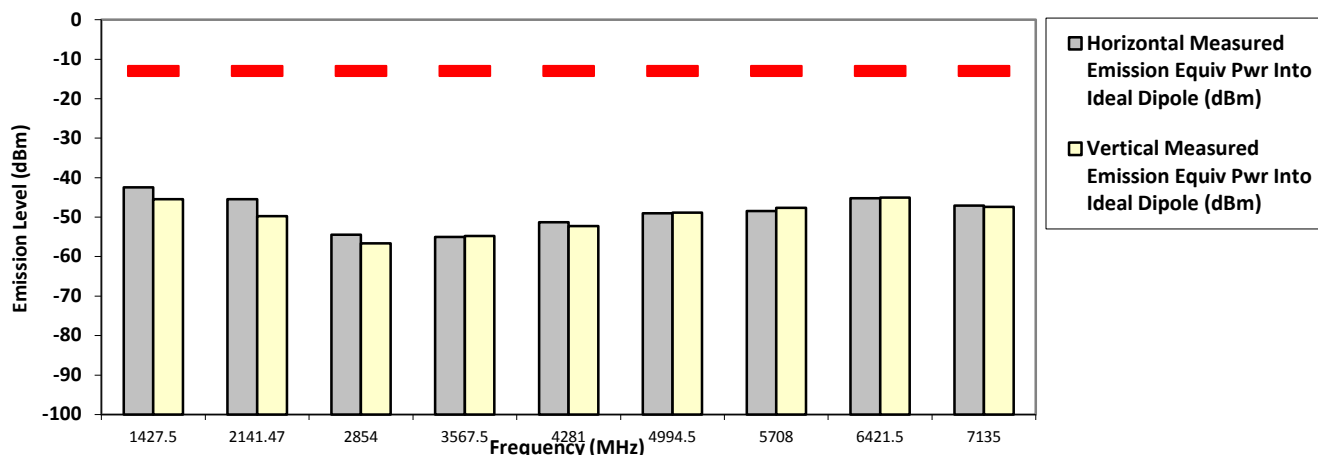
713.500000 MHz (High)

Bandwidth 5MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1427.0000	-13.0000	-42.4400 *	-45.4800 *
2140.5000	-13.0000	-45.4300 *	-49.7900 *
2854.0000	-13.0000	-54.4223 **	-56.6532 **
3567.5000	-13.0000	-55.0143 **	-54.7847 **
4281.0000	-13.0000	-51.3193 **	-52.2543 **
4994.5000	-13.0000	-49.0300 **	-48.8345 **
5708.0000	-13.0000	-48.4431 **	-47.6490 **
6421.5000	-13.0000	-45.2136 **	-45.0524 **
7135.0000	-13.0000	-47.0735 **	-47.3654 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

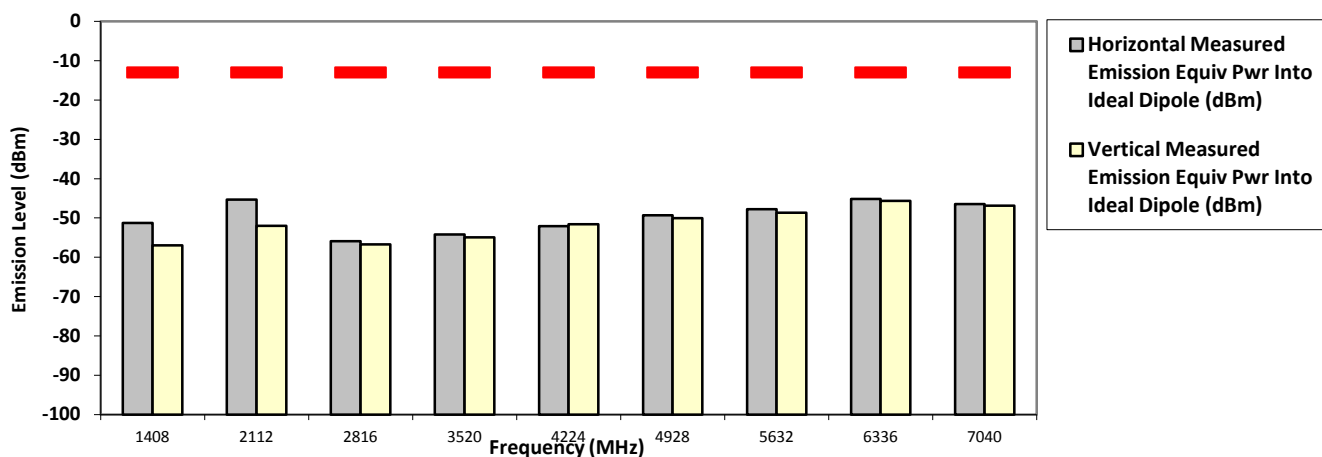
704.000000 MHz (Low)

Bandwidth 10MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1408.0000	-13.0000	-51.3000 *	-56.9300 *
2112.0000	-13.0000	-45.3100 *	-52.0000 *
2816.0000	-13.0000	-55.9097 **	-56.6914 **
3520.0000	-13.0000	-54.2041 **	-54.9563 **
4224.0000	-13.0000	-52.0490 **	-51.6252 **
4928.0000	-13.0000	-49.3500 **	-50.0353 **
5632.0000	-13.0000	-47.7600 **	-48.6654 **
6336.0000	-13.0000	-45.1915 **	-45.6440 **
7040.0000	-13.0000	-46.4982 **	-46.8442 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

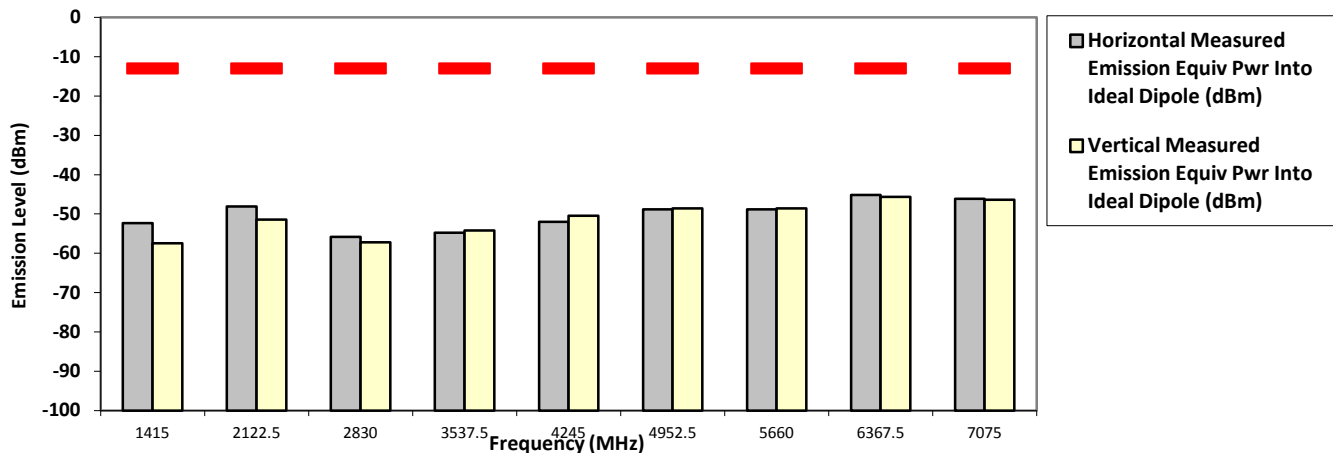
707.500000 MHz (Mid)

Bandwidth 10MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1415.0000	-13.0000	-52.3300 *	-57.4200 *
2122.5000	-13.0000	-48.0700 *	-51.4000 *
2830.0000	-13.0000	-55.8643 **	-57.2262 **
3537.5000	-13.0000	-54.7738 **	-54.1620 **
4245.0000	-13.0000	-52.0196 **	-50.4719 **
4952.5000	-13.0000	-48.8207 **	-48.5843 **
5660.0000	-13.0000	-48.8034 **	-48.5516 **
6367.5000	-13.0000	-45.1712 **	-45.6186 **
7075.0000	-13.0000	-46.1697 **	-46.3573 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

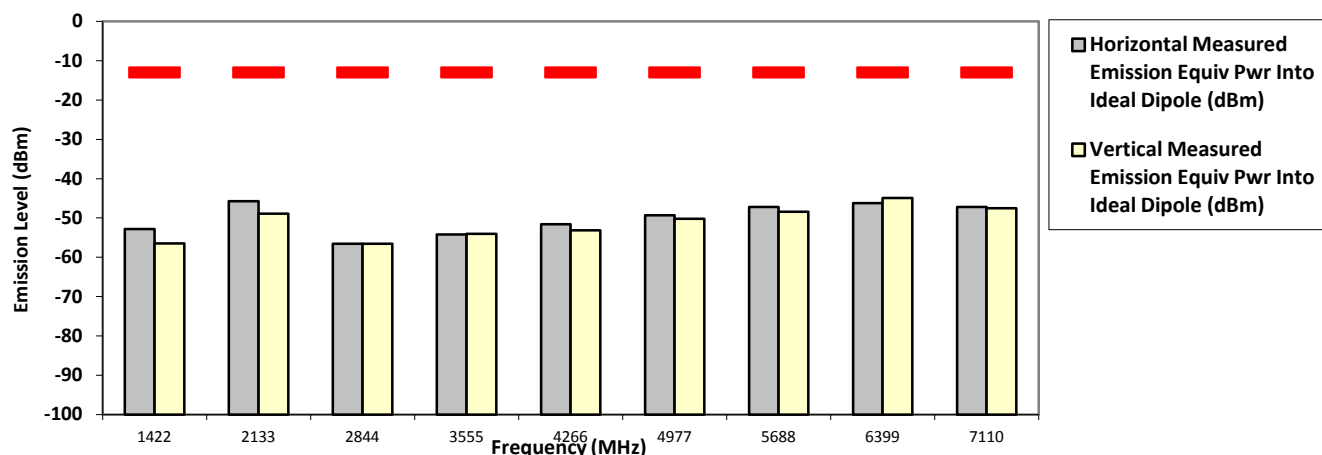
Link Mode Radiated Emission:
 S/N: 790TTV0214
 Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 12)
 Bandwidth 10MHz

SR:08397-EMC-00076
 0.252 Watt(s) /Max Power

711.000000 MHz (High)

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1422.0000	-13.0000	-52.7900 *	-56.4900 *
2133.0000	-13.0000	-45.7700 *	-48.9100 *
2844.0000	-13.0000	-56.5452 **	-56.5901 **
3555.0000	-13.0000	-54.1602 **	-54.0361 **
4266.0000	-13.0000	-51.6111 **	-53.1303 **
4977.0000	-13.0000	-49.3500 **	-50.1765 **
5688.0000	-13.0000	-47.2379 **	-48.4326 **
6399.0000	-13.0000	-46.2430 **	-44.9126 **
7110.0000	-13.0000	-47.2319 **	-47.5030 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

DC configuration: Link Mode 24V

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:
 S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

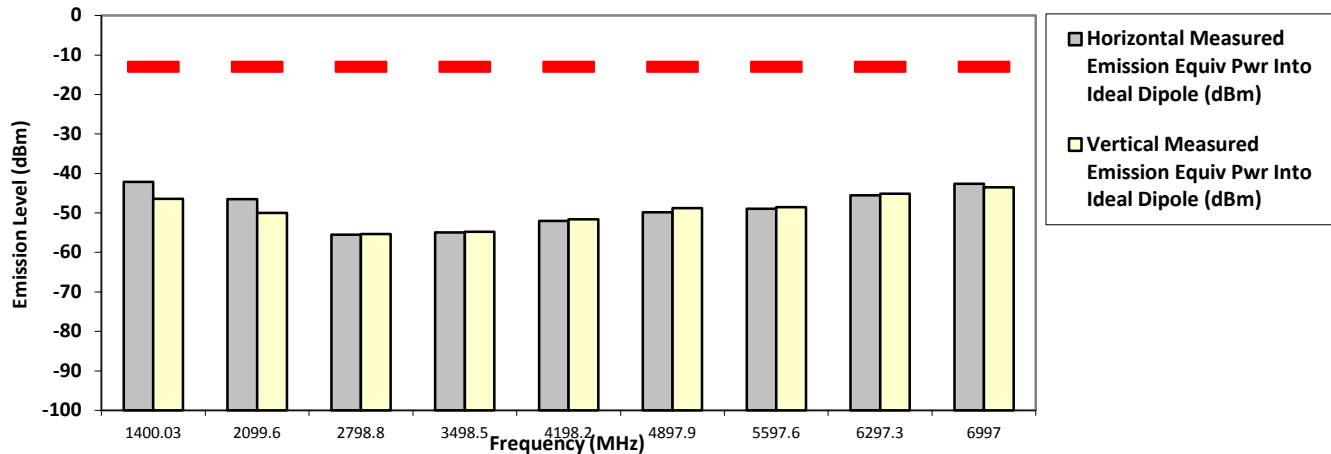
699.700000 MHz (Low)

Bandwidth 1.4MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1399.4000	-13.0000	-42.1400 *	-46.4600 *
2099.1000	-13.0000	-46.4700 *	-50.0100 *
2798.8000	-13.0000	-55.4689 **	-55.3582 **
3498.5000	-13.0000	-54.9029 **	-54.7767 **
4198.2000	-13.0000	-52.0600 **	-51.6547 **
4897.9000	-13.0000	-49.8013 **	-48.7904 **
5597.6000	-13.0000	-48.9512 **	-48.5430 **
6297.3000	-13.0000	-45.5245 **	-45.1436 **
6997.0000	-13.0000	-42.6497 **	-43.4966 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n
 Battery Part No: PMNN4546A

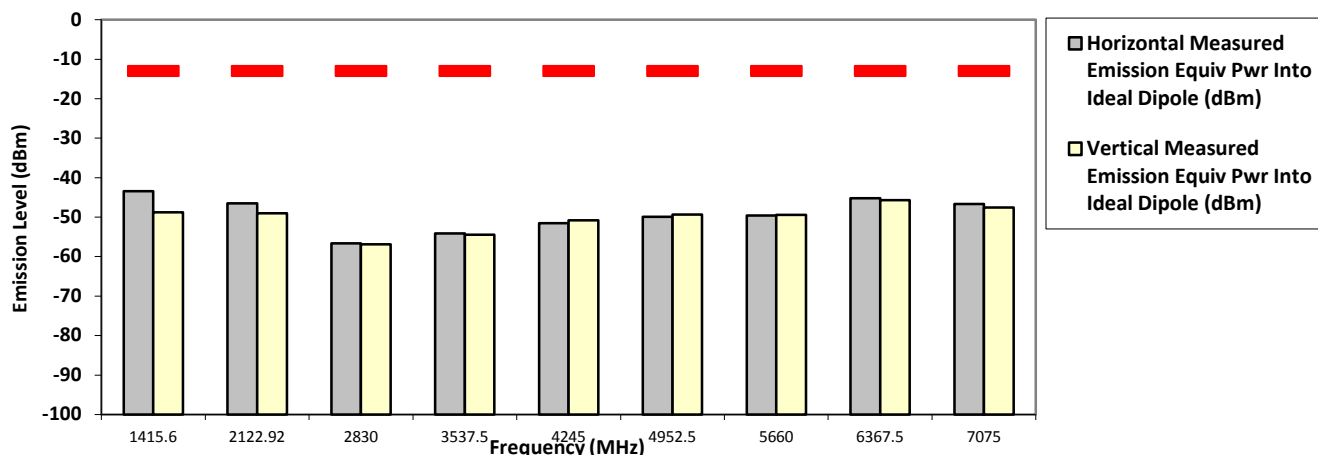
Link Mode Radiated Emission:
 S/N: 790TTV0214
 Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 12)
 Bandwidth 1.4MHz

SR:08397-EMC-00076
 0.252 Watt(s) /Max Power

707.500000 MHz (Mid)

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1415.0000	-13.0000	-43.4400 *	-48.7400 *
2122.5000	-13.0000	-46.5200 *	-48.9900 *
2830.0000	-13.0000	-56.6066 **	-56.8957 **
3537.5000	-13.0000	-54.1106 **	-54.4485 **
4245.0000	-13.0000	-51.5026 **	-50.8230 **
4952.5000	-13.0000	-49.9313 **	-49.3477 **
5660.0000	-13.0000	-49.5903 **	-49.4471 **
6367.5000	-13.0000	-45.2273 **	-45.6672 **
7075.0000	-13.0000	-46.6821 **	-47.5265 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

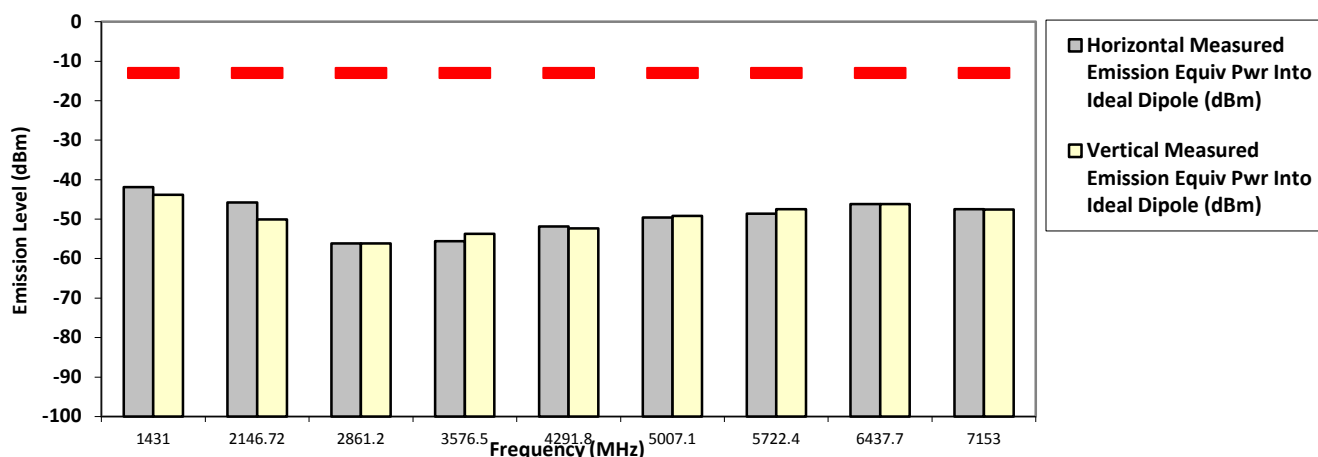
715.300000 MHz (High)

Bandwidth 1.4MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1430.6000	-13.0000	-41.8500 *	-43.8000 *
2145.9000	-13.0000	-45.7900 *	-50.0800 *
2861.2000	-13.0000	-56.1232 **	-56.1761 **
3576.5000	-13.0000	-55.5603 **	-53.6835 **
4291.8000	-13.0000	-51.8771 **	-52.3595 **
5007.1000	-13.0000	-49.5972 **	-49.1699 **
5722.4000	-13.0000	-48.6469 **	-47.5198 **
6437.7000	-13.0000	-46.1694 **	-46.1666 **
7153.0000	-13.0000	-47.5062 **	-47.5549 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n
 Battery Part No: PMNN4546A

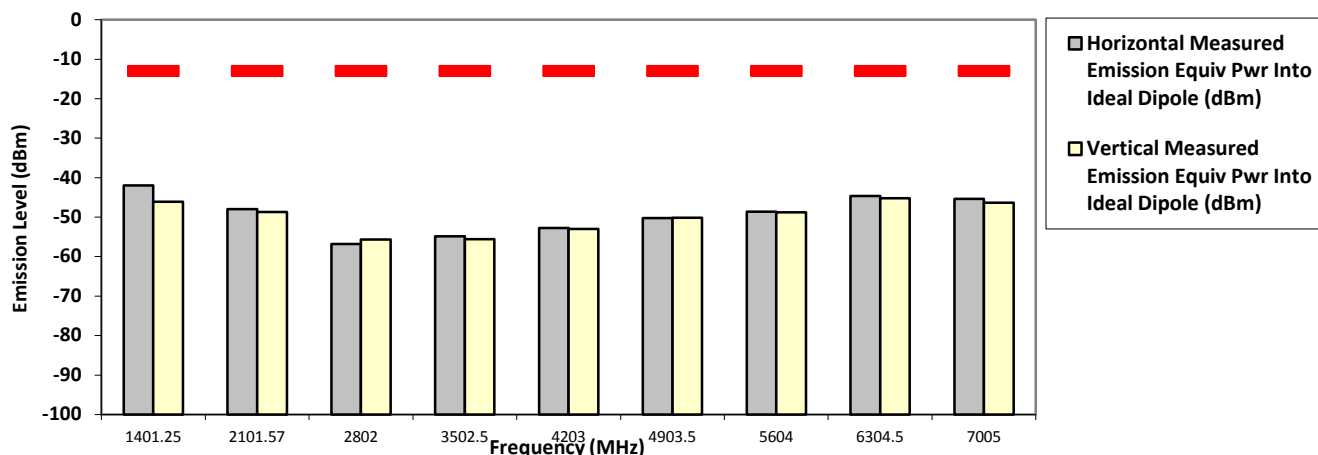
Link Mode Radiated Emission:
 S/N: 790TTV0214
 Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 12)
 Bandwidth 3MHz
 0.252 Watt(s) /Max Power

SR:08397-EMC-00076

700.500000 MHz (Low)

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1401.0000	-13.0000	-41.9600 *	-46.0800 *
2101.5000	-13.0000	-47.9600 *	-48.6600 *
2802.0000	-13.0000	-56.7649 **	-55.6463 **
3502.5000	-13.0000	-54.8610 **	-55.6147 **
4203.0000	-13.0000	-52.7357 **	-53.0167 **
4903.5000	-13.0000	-50.2013 **	-50.1172 **
5604.0000	-13.0000	-48.6497 **	-48.7918 **
6304.5000	-13.0000	-44.6500 **	-45.2245 **
7005.0000	-13.0000	-45.3786 **	-46.3770 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

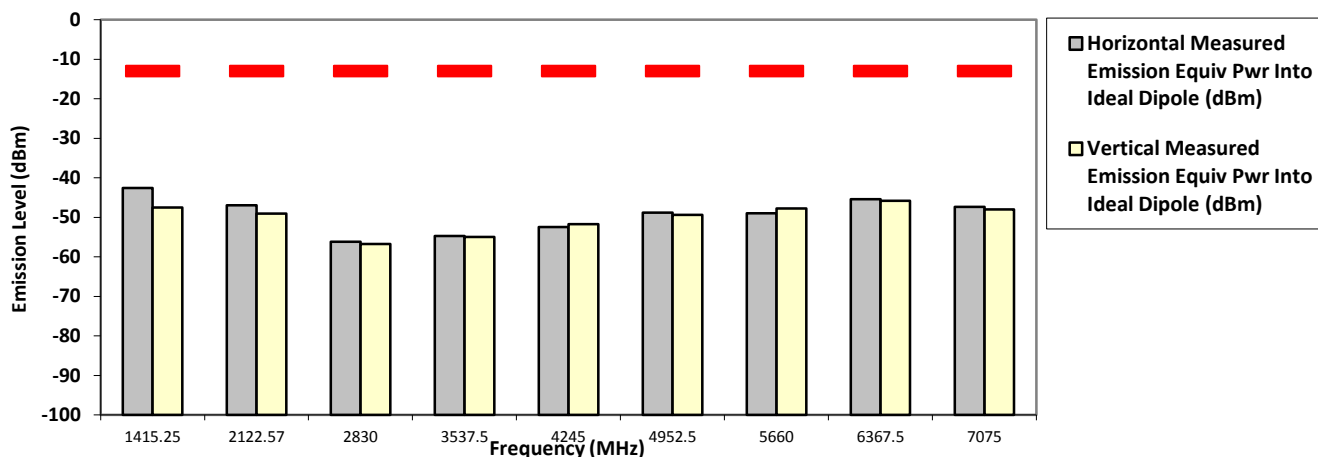
707.500000 MHz (Mid)

Bandwidth 3MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1415.0000	-13.0000	-42.5400 *	-47.4900 *
2122.5000	-13.0000	-46.9200 *	-49.0300 *
2830.0000	-13.0000	-56.1853 **	-56.7119 **
3537.5000	-13.0000	-54.7234 **	-54.9418 **
4245.0000	-13.0000	-52.4933 **	-51.7368 **
4952.5000	-13.0000	-48.8301 **	-49.3956 **
5660.0000	-13.0000	-48.9854 **	-47.7565 **
6367.5000	-13.0000	-45.4026 **	-45.7875 **
7075.0000	-13.0000	-47.3157 **	-47.9893 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

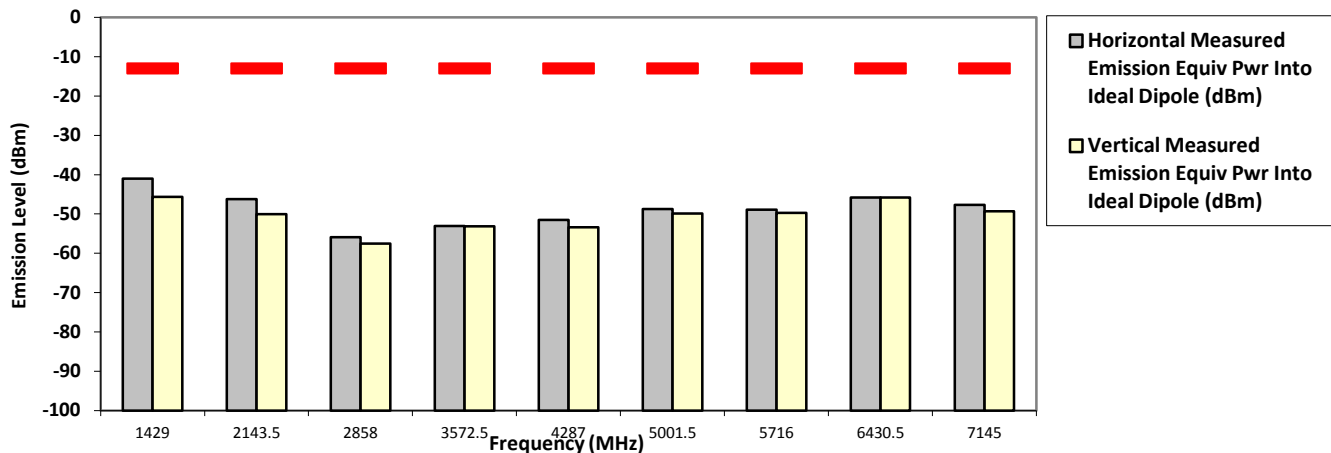
714.500000 MHz (High)

Bandwidth 3MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1429.0000	-13.0000	-41.0300 *	-45.6800 *
2143.5000	-13.0000	-46.2400 *	-50.0100 *
2858.0000	-13.0000	-55.9129 **	-57.5067 **
3572.5000	-13.0000	-53.0717 **	-53.1515 **
4287.0000	-13.0000	-51.5425 **	-53.3850 **
5001.5000	-13.0000	-48.7283 **	-49.8991 **
5716.0000	-13.0000	-48.9116 **	-49.7478 **
6430.5000	-13.0000	-45.7919 **	-45.7866 **
7145.0000	-13.0000	-47.7036 **	-49.3068 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

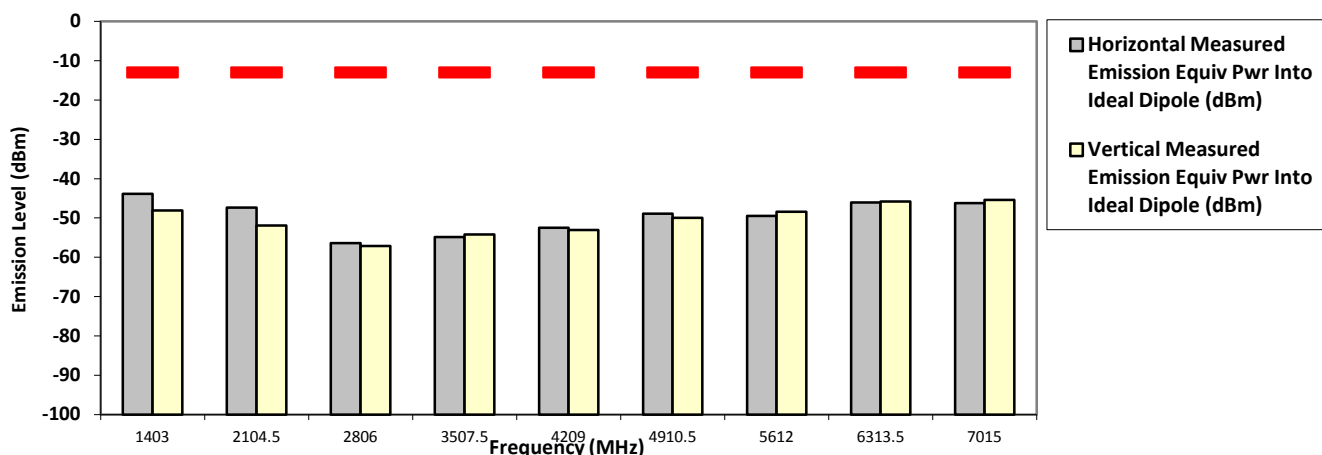
701.500000 MHz (Low)

Bandwidth 5MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1403.0000	-13.0000	-43.8200 *	-48.0900 *
2104.5000	-13.0000	-47.3800 *	-51.9100 *
2806.0000	-13.0000	-56.3901 **	-57.1400 **
3507.5000	-13.0000	-54.8196 **	-54.2003 **
4209.0000	-13.0000	-52.5077 **	-53.0736 **
4910.5000	-13.0000	-48.9185 **	-49.9419 **
5612.0000	-13.0000	-49.4532 **	-48.4093 **
6313.5000	-13.0000	-46.0549 **	-45.8266 **
7015.0000	-13.0000	-46.2063 **	-45.4192 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

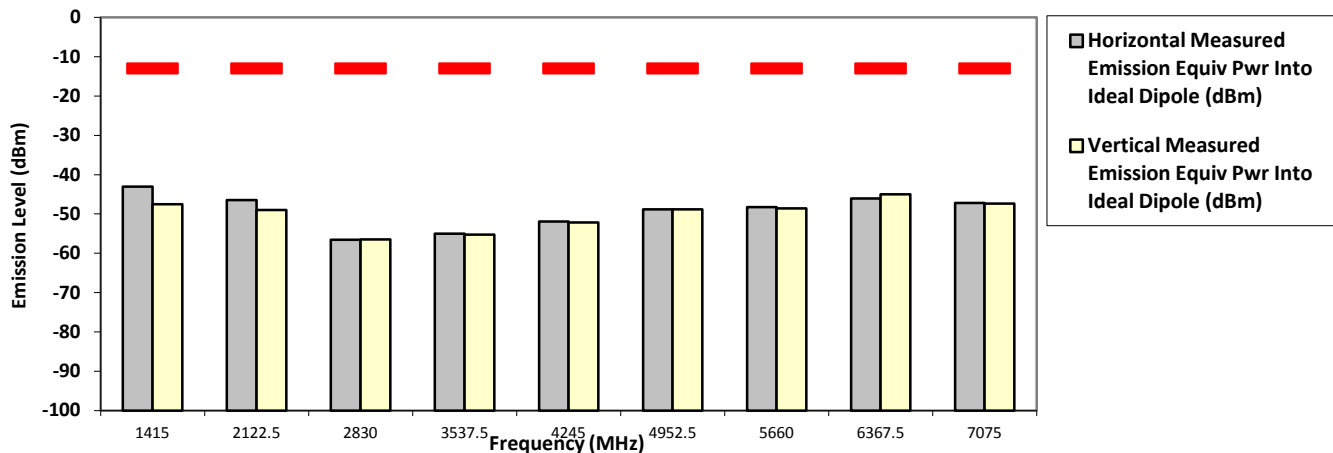
707.500000 MHz (Mid)

Bandwidth 5MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1415.0000	-13.0000	-43.0100 *	-47.5000 *
2122.5000	-13.0000	-46.4900 *	-48.9600 *
2830.0000	-13.0000	-56.5580 **	-56.4539 **
3537.5000	-13.0000	-55.0268 **	-55.2794 **
4245.0000	-13.0000	-51.9158 **	-52.1284 **
4952.5000	-13.0000	-48.8114 **	-48.8291 **
5660.0000	-13.0000	-48.2383 **	-48.5534 **
6367.5000	-13.0000	-46.0272 **	-45.0397 **
7075.0000	-13.0000	-47.2094 **	-47.3357 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

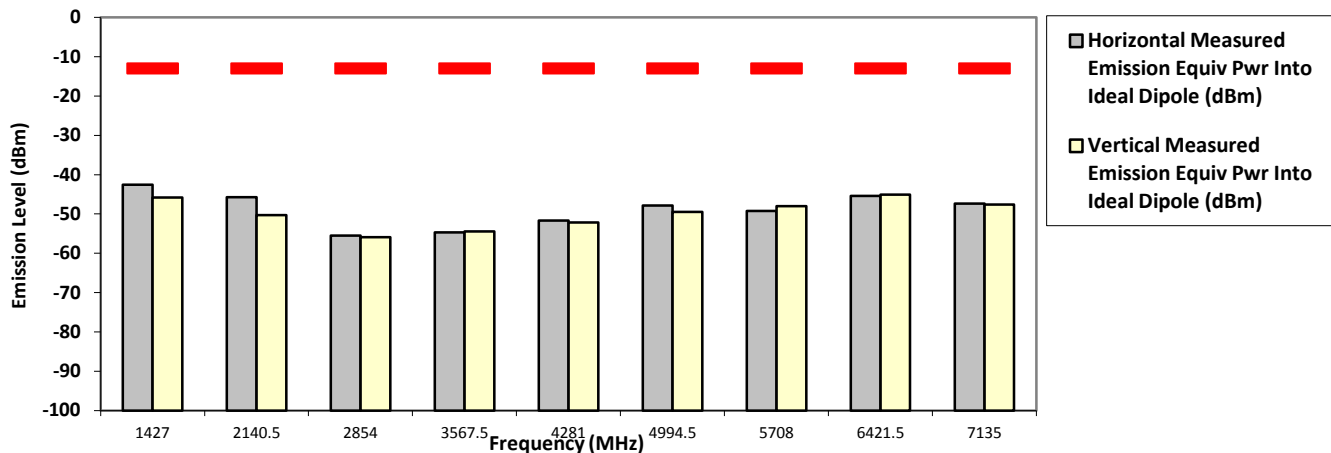
713.500000 MHz (High)

Bandwidth 5MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1427.0000	-13.0000	-42.5500 *	-45.8100 *
2140.5000	-13.0000	-45.7100 *	-50.2800 *
2854.0000	-13.0000	-55.5102 **	-55.8990 **
3567.5000	-13.0000	-54.7226 **	-54.4070 **
4281.0000	-13.0000	-51.6849 **	-52.1995 **
4994.5000	-13.0000	-47.8155 **	-49.5094 **
5708.0000	-13.0000	-49.1937 **	-48.0025 **
6421.5000	-13.0000	-45.4098 **	-45.0929 **
7135.0000	-13.0000	-47.3591 **	-47.5897 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

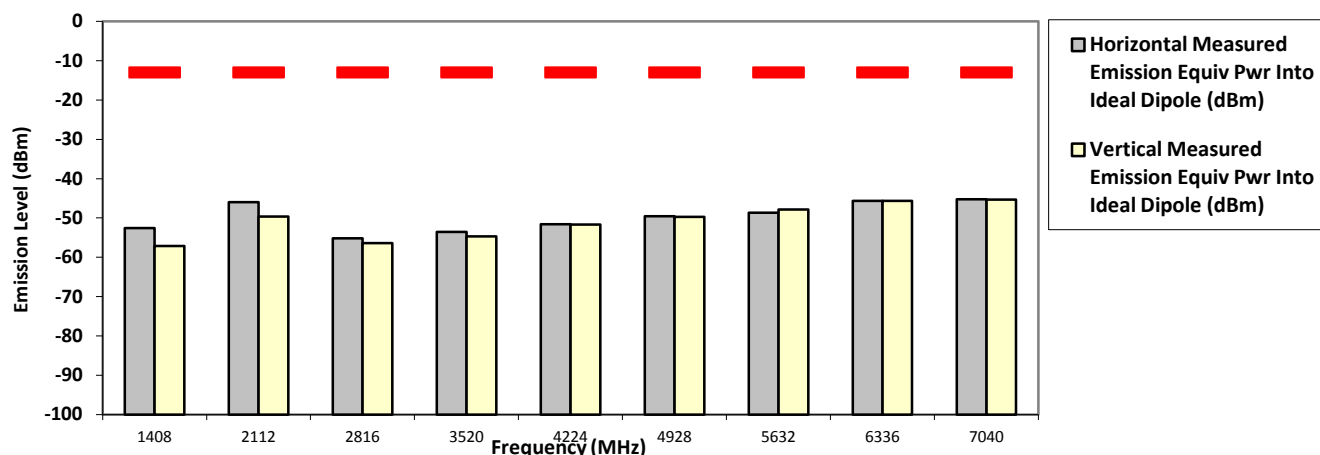
704.000000 MHz (Low)

Bandwidth 10MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1408.0000	-13.0000	-52.5500 *	-57.1700 *
2112.0000	-13.0000	-46.0100 *	-49.6800 *
2816.0000	-13.0000	-55.2020 **	-56.4293 **
3520.0000	-13.0000	-53.5802 **	-54.7096 **
4224.0000	-13.0000	-51.6121 **	-51.6426 **
4928.0000	-13.0000	-49.5209 **	-49.7357 **
5632.0000	-13.0000	-48.6554 **	-47.8705 **
6336.0000	-13.0000	-45.6562 **	-45.6565 **
7040.0000	-13.0000	-45.2453 **	-45.3650 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

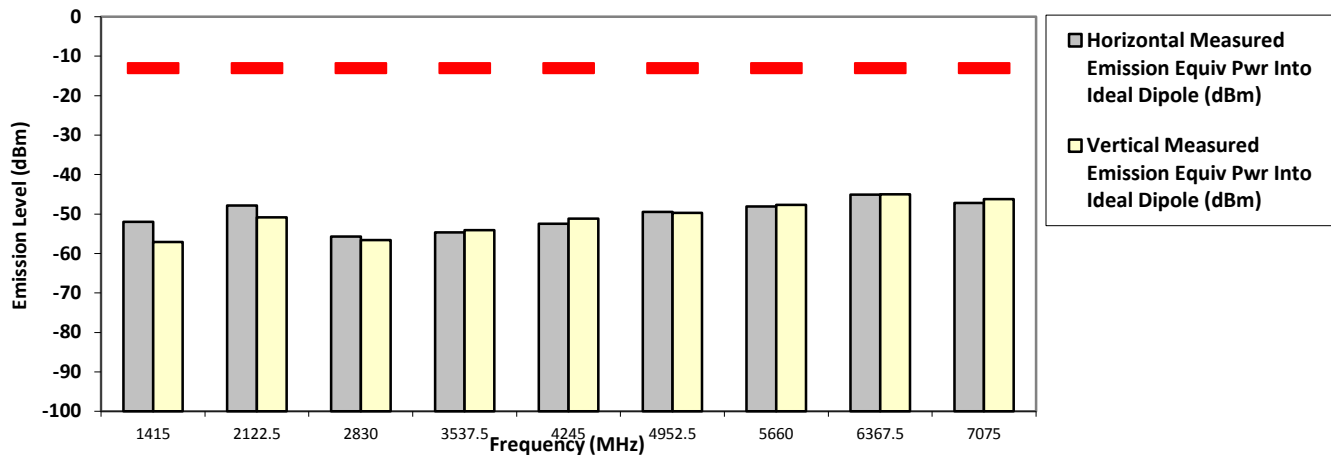
707.500000 MHz (Mid)

Bandwidth 10MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1415.0000	-13.0000	-51.9700 *	-57.0500 *
2122.5000	-13.0000	-47.8200 *	-50.8800 *
2830.0000	-13.0000	-55.6929 **	-56.5779 **
3537.5000	-13.0000	-54.6169 **	-54.1221 **
4245.0000	-13.0000	-52.4912 **	-51.1916 **
4952.5000	-13.0000	-49.4323 **	-49.7393 **
5660.0000	-13.0000	-48.0426 **	-47.6919 **
6367.5000	-13.0000	-45.0454 **	-45.0207 **
7075.0000	-13.0000	-47.2072 **	-46.2284 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n
 Battery Part No: PMNN4546A

Link Mode Radiated Emission:

S/N: 790TTV0214

SR:08397-EMC-00076

Accy Part No: 8397-PMLN7779A-2, 8397-PMLN7779A-5

Test Mode: TX LTE (Band 12)

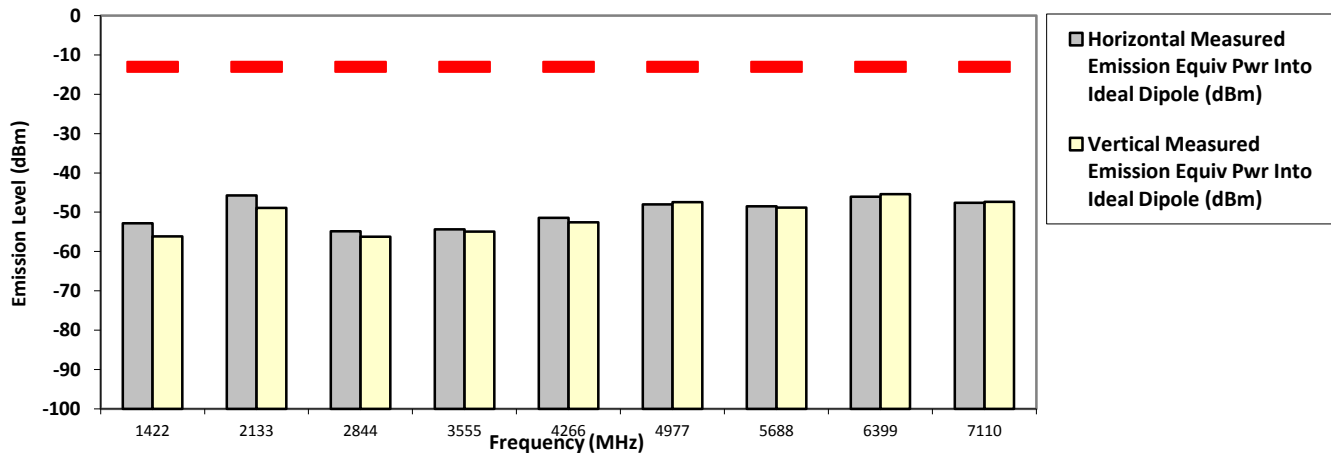
711.000000 MHz (High)

Bandwidth 10MHz

0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1422.0000	-13.0000	-52.7900 *	-56.1900 *
2133.0000	-13.0000	-45.7000 *	-48.9400 *
2844.0000	-13.0000	-54.8430 **	-56.2035 **
3555.0000	-13.0000	-54.3859 **	-54.9616 **
4266.0000	-13.0000	-51.4064 **	-52.6101 **
4977.0000	-13.0000	-47.9844 **	-47.4450 **
5688.0000	-13.0000	-48.5012 **	-48.8517 **
6399.0000	-13.0000	-46.0293 **	-45.4199 **
7110.0000	-13.0000	-47.6121 **	-47.3650 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

Sun, Dec 03, 2017

Industry Canada: 109AK

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.9 Hum(%RH): 70.2

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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--Test Report End--