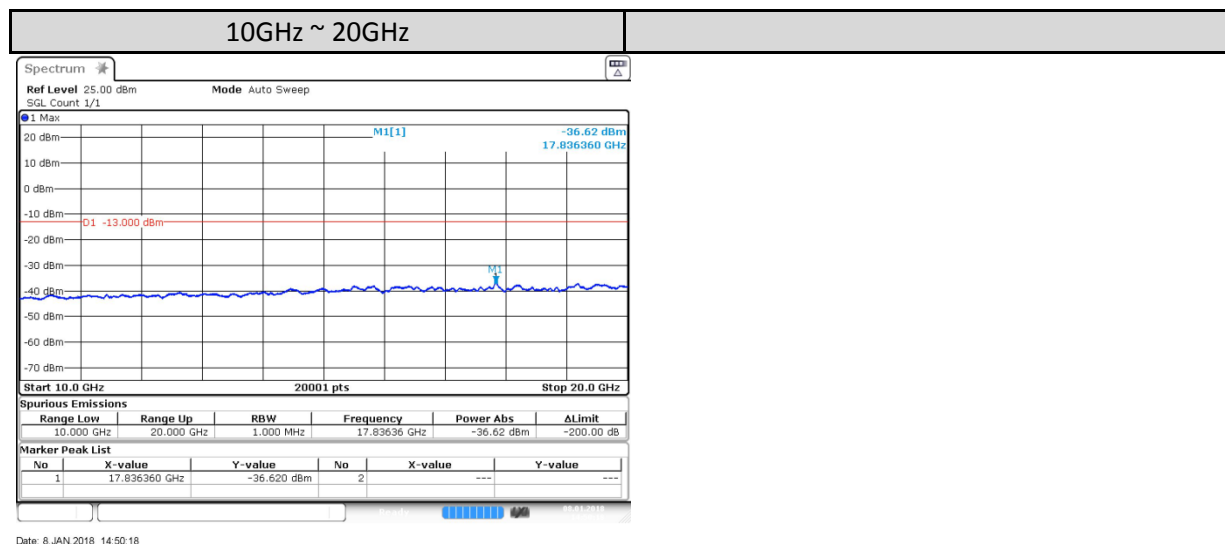
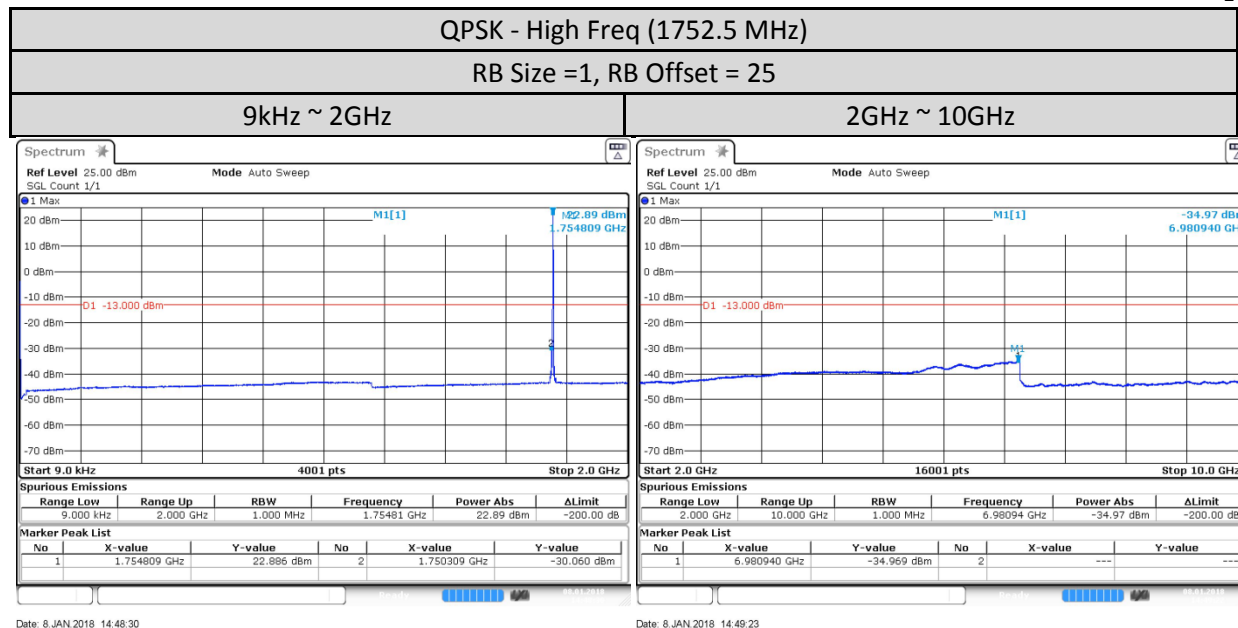
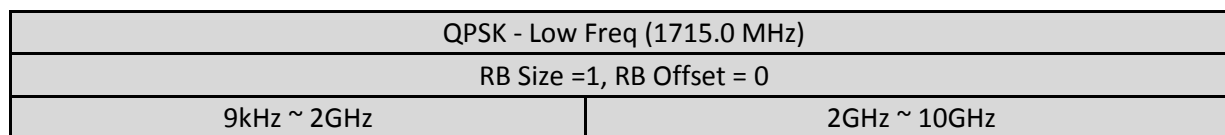
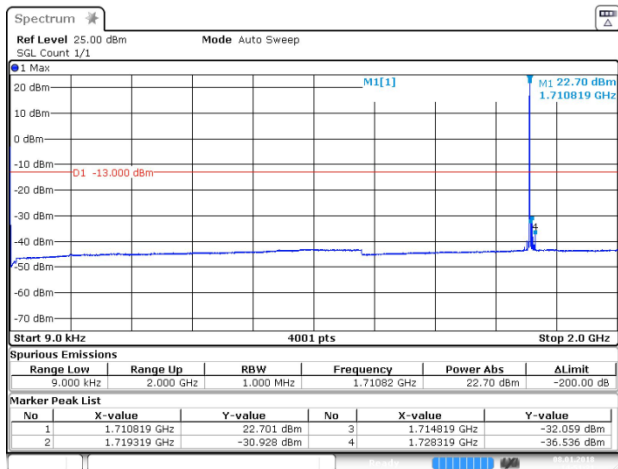


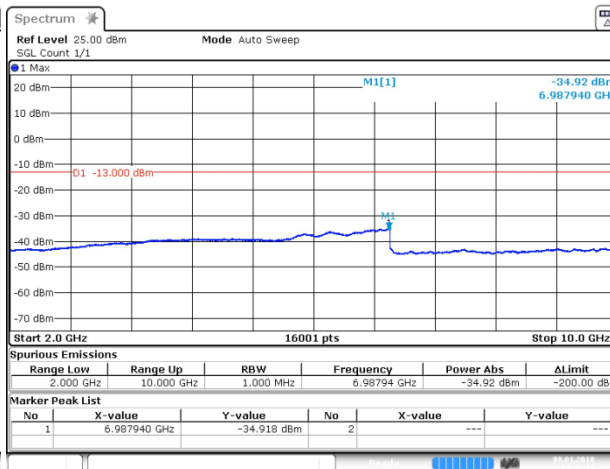


10MHz



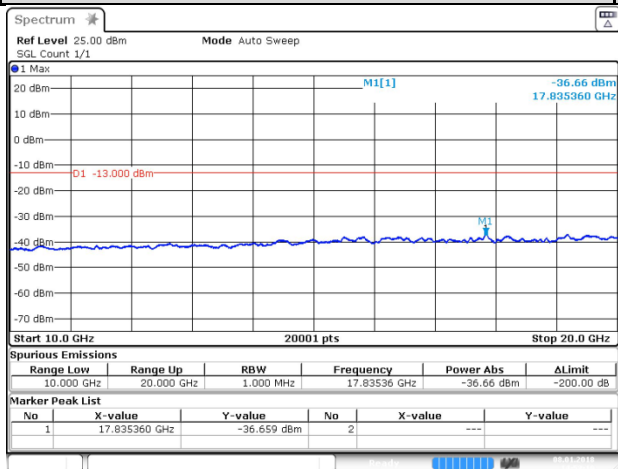


Date: 8 JAN 2018 14:51:21



Date: 8 JAN 2018 14:52:14

10GHz ~ 20GHz



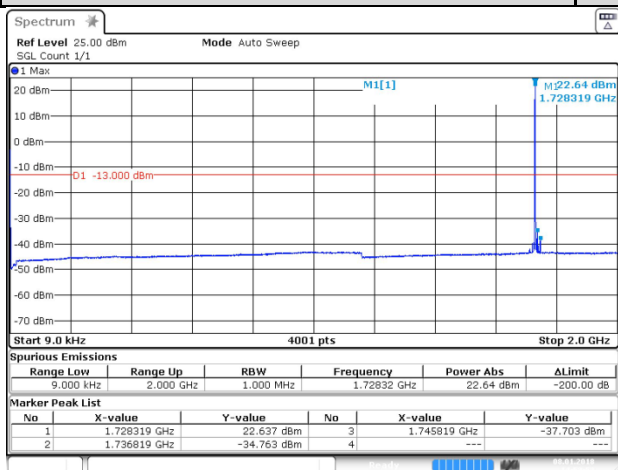
Date: 8 JAN 2018 14:53:11

QPSK - Mid Freq (1732.5 MHz)

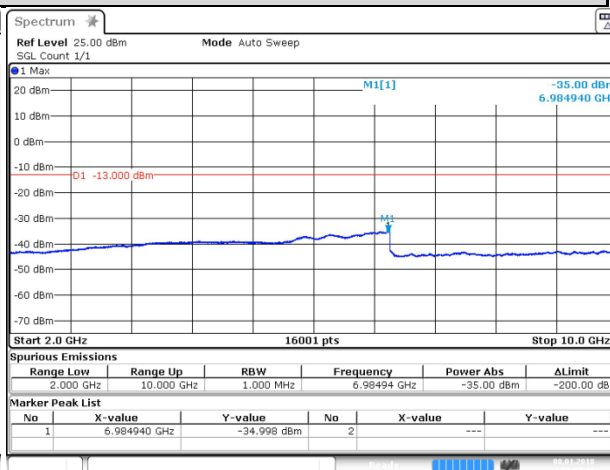
RB Size =1, RB Offset = 0

9kHz ~ 2GHz

2GHz ~ 10GHz

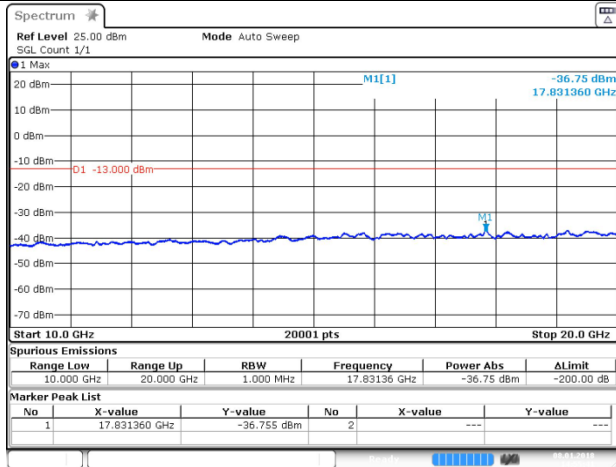


Date: 8 JAN 2018 14:53:53



Date: 8 JAN 2018 14:54:48

10GHz ~ 20GHz

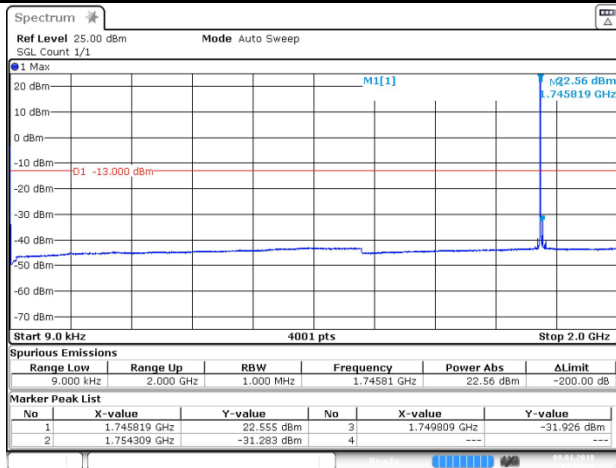


Date: 8 JAN 2018 14:55:41

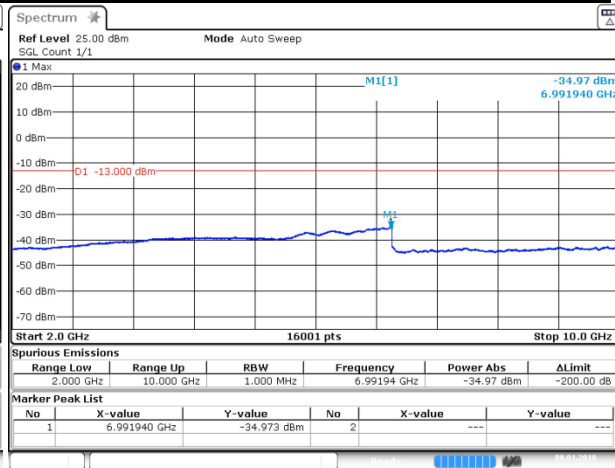
QPSK - High Freq (1750.0 MHz)

RB Size =1, RB Offset = 0

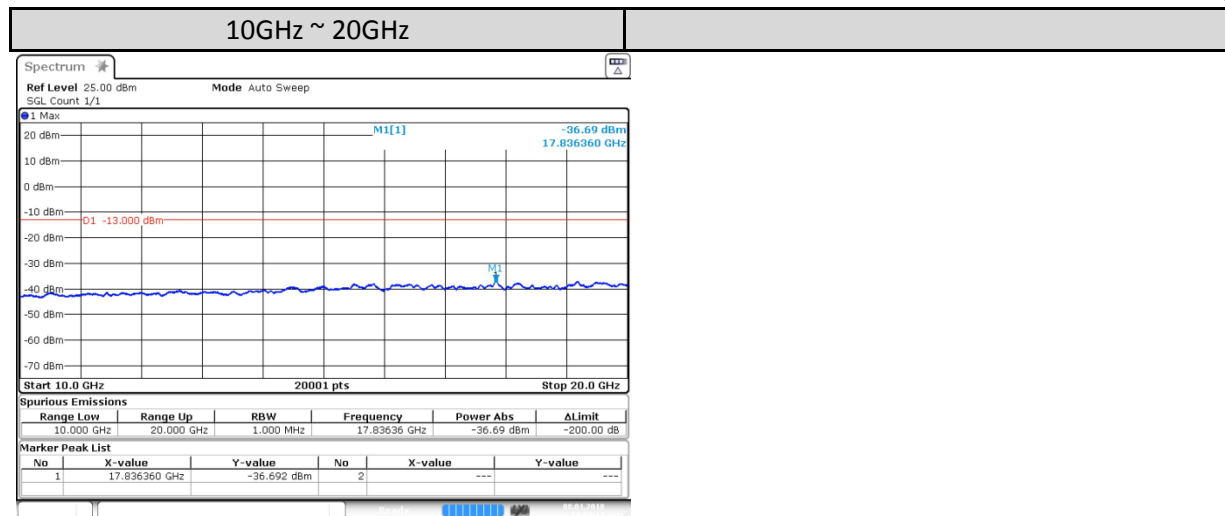
9kHz ~ 2GHz 2GHz ~ 10GHz



Date: 8 JAN 2018 14:56:23

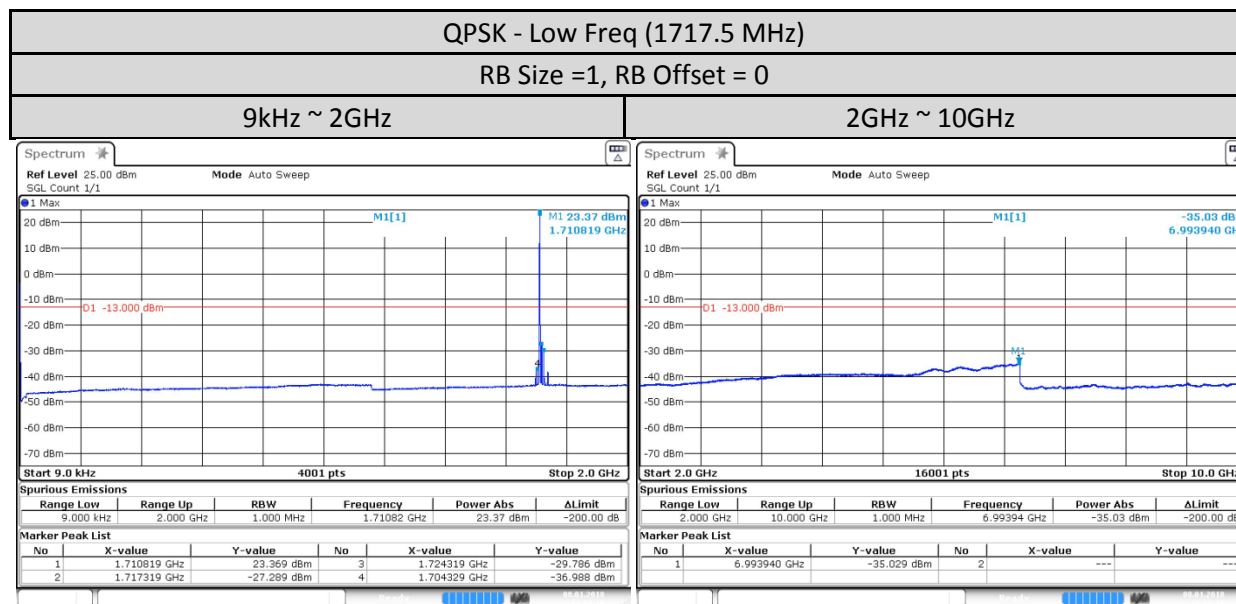


Date: 8 JAN 2018 14:57:16



Date: 8 JAN 2018 14:58:13

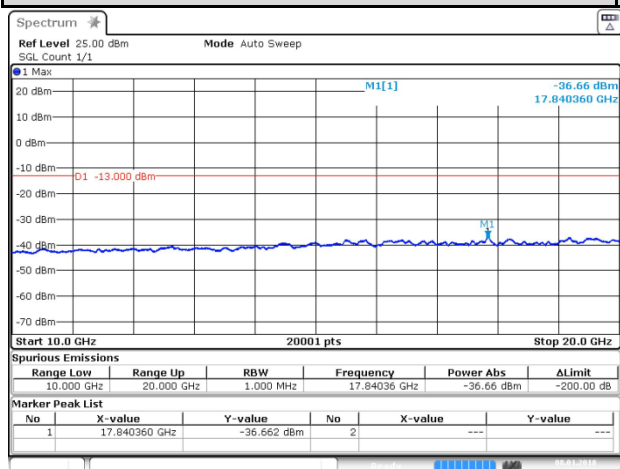
15MHz



Date: 8 JAN 2018 14:59:17

Date: 8 JAN 2018 15:00:10

10GHz ~ 20GHz

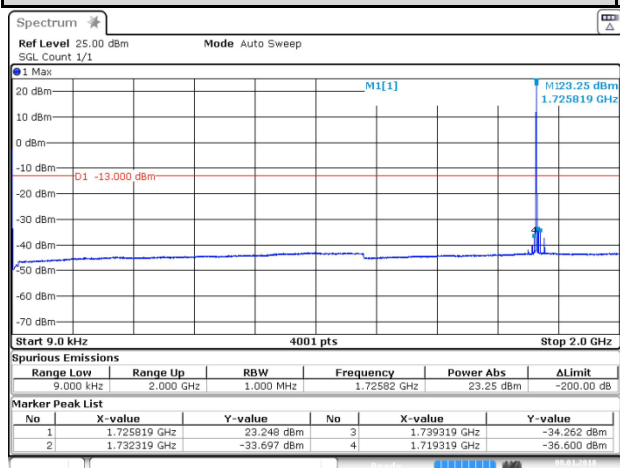


Date: 8 JAN 2018 15:01:05

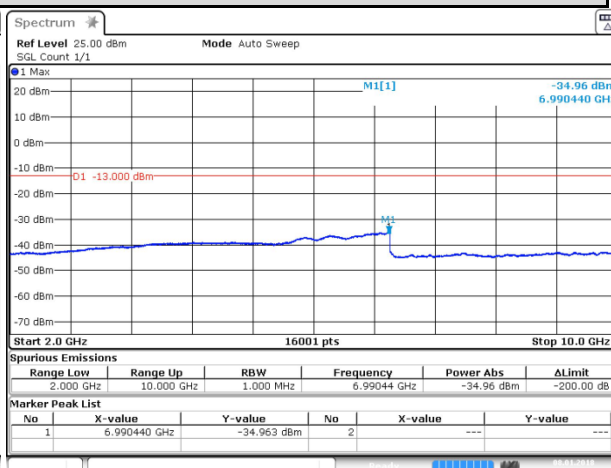
QPSK - Mid Freq (1732.5 MHz)

RB Size =1, RB Offset = 0

9kHz ~ 2GHz 2GHz ~ 10GHz

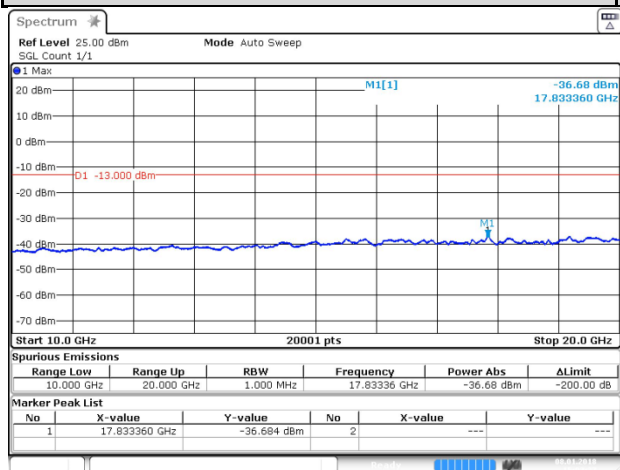


Date: 8 JAN 2018 15:01:47

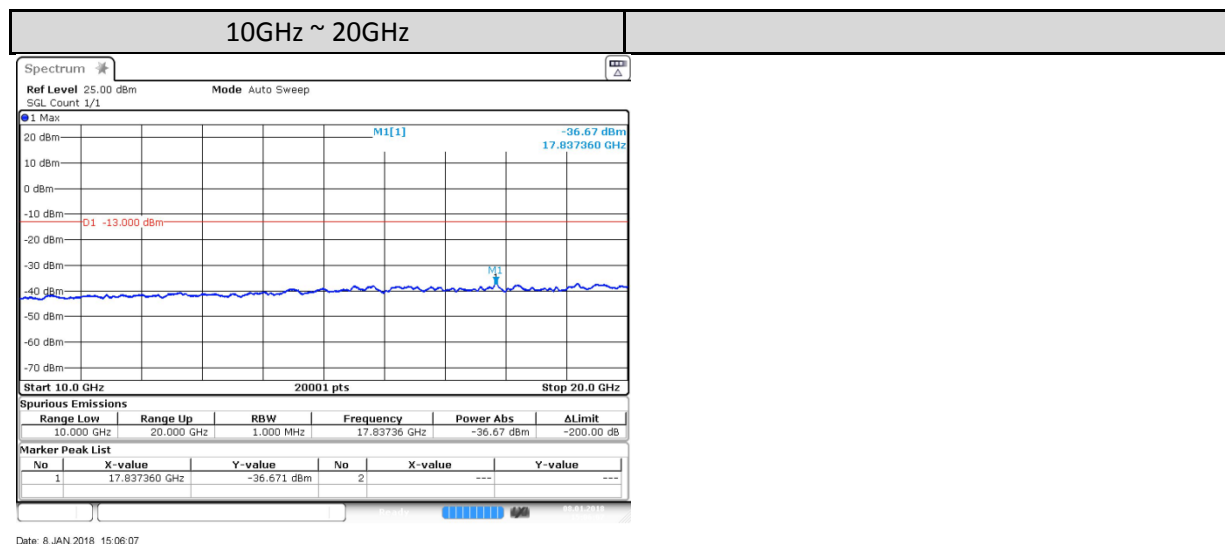
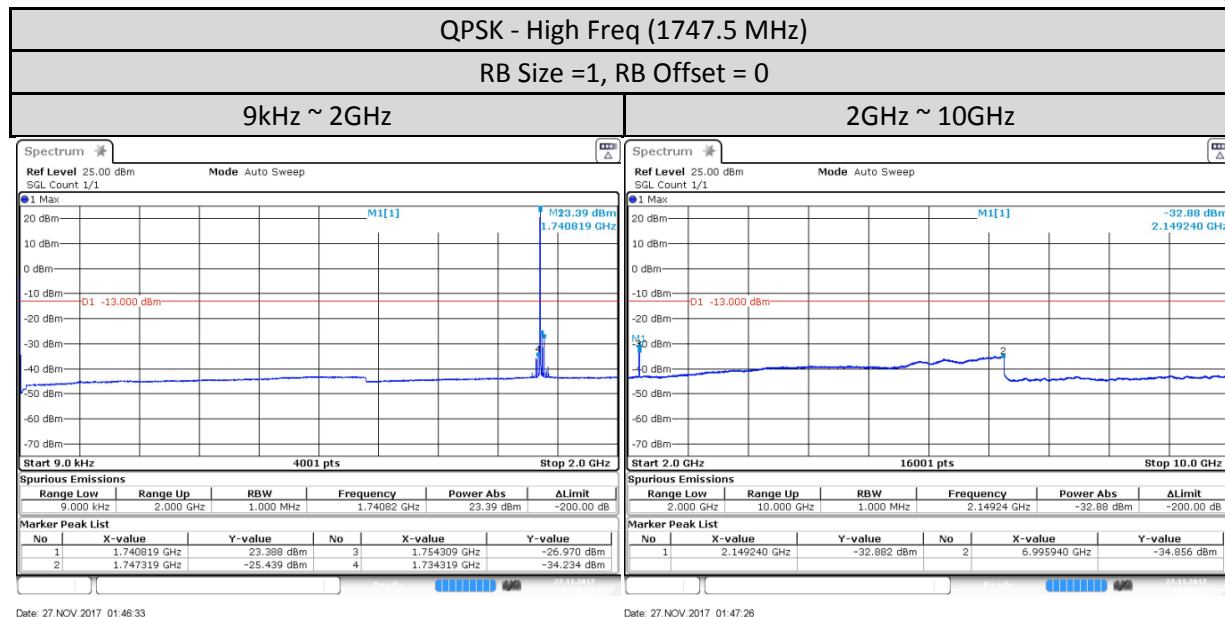


Date: 8 JAN 2018 15:02:41

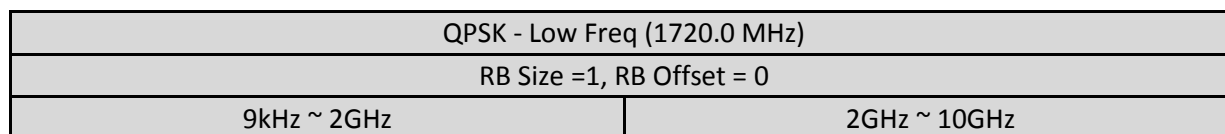
10GHz ~ 20GHz

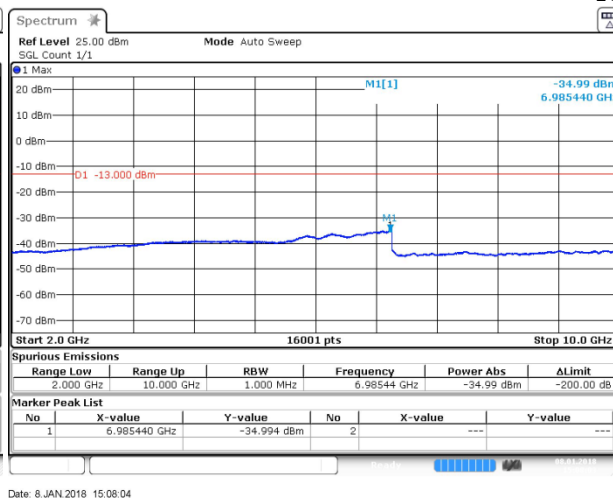
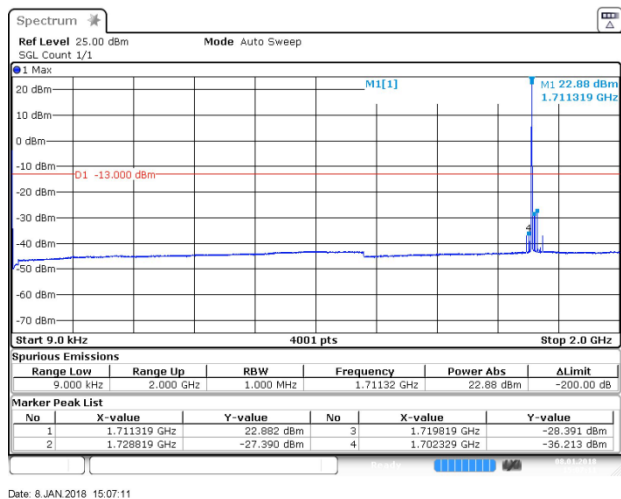


Date: 8 JAN 2018 15:03:37

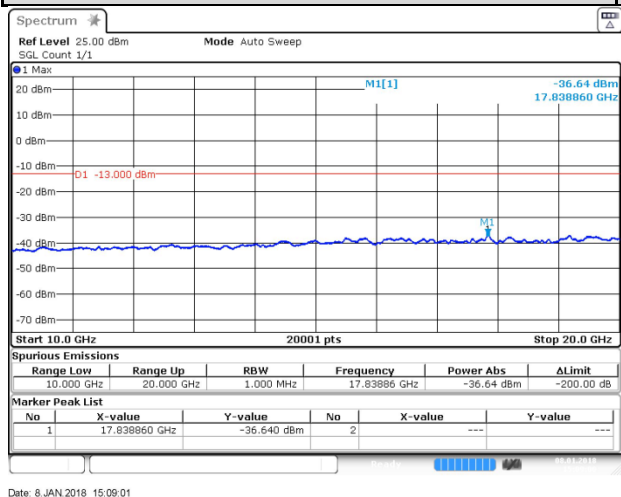


20MHz



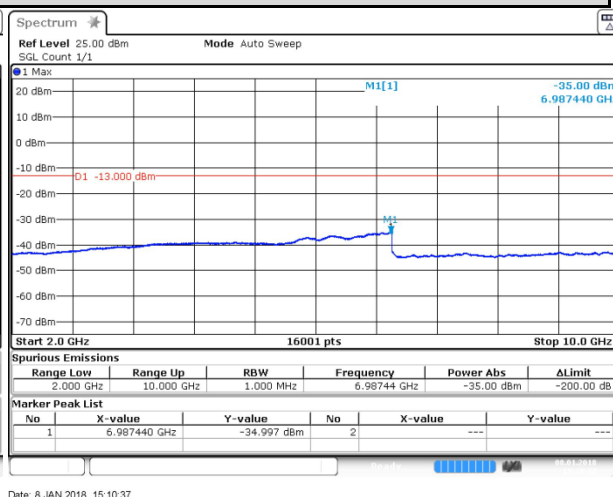
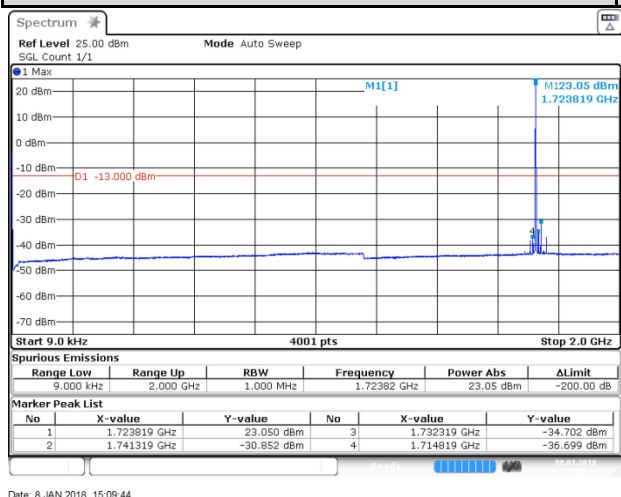


10GHz ~ 20GHz

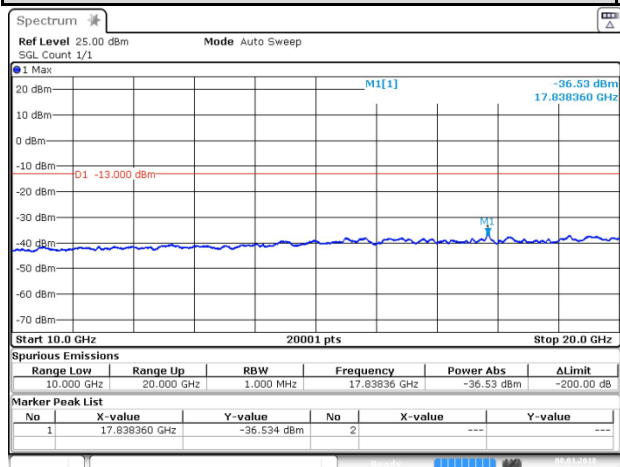


QPSK - Mid Freq (1732.5 MHz) RB Size =1, RB Offset = 0

9kHz ~ 2GHz 2GHz ~ 10GHz



10GHz ~ 20GHz

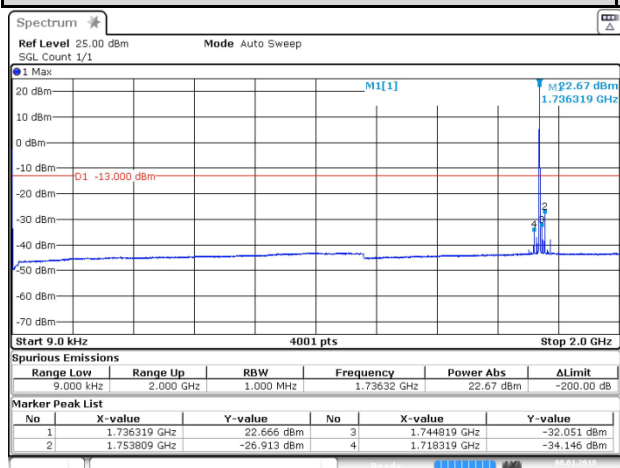


Date: 8 JAN 2018 15:11:31

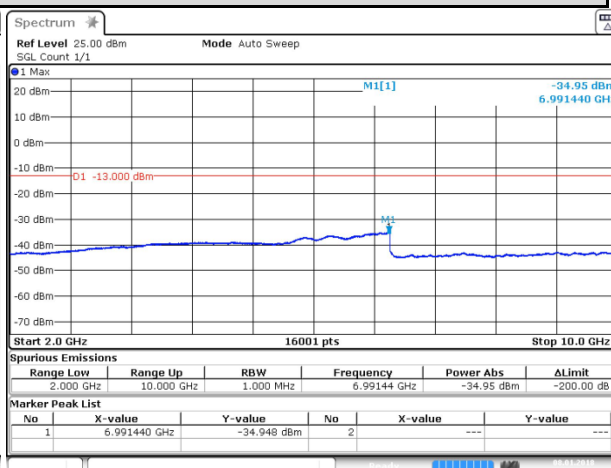
QPSK - High Freq (1745.0 MHz)

RB Size =1, RB Offset = 0

9kHz ~ 2GHz 2GHz ~ 10GHz

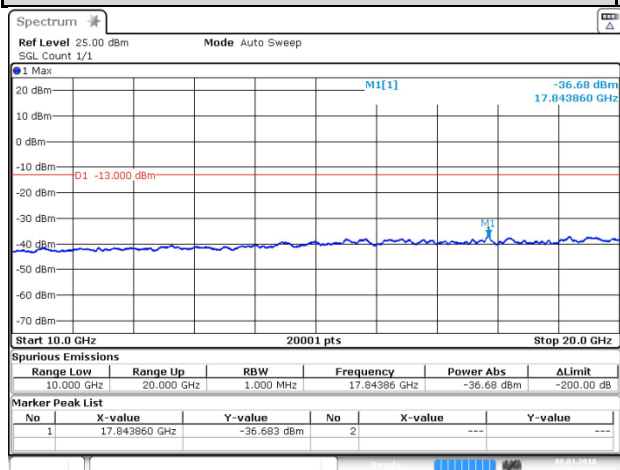


Date: 8 JAN 2018 15:12:11



Date: 8 JAN 2018 15:13:02

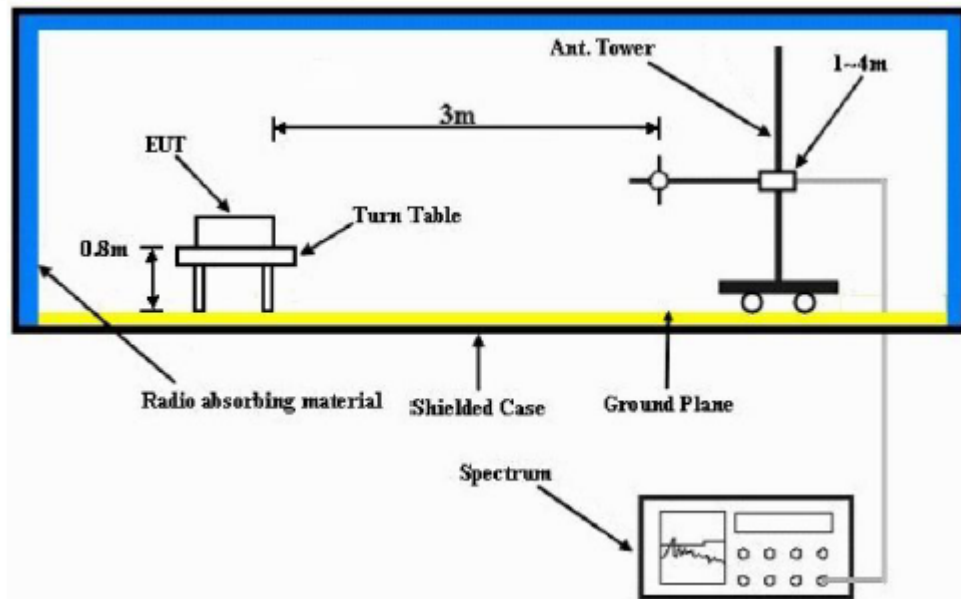
10GHz ~ 20GHz



Date: 8 JAN 2018 15:13:54

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.

1.0.1. Test Limit

The power of any emission outside a licensee’s frequency block shall be attenuated below the transmitter power (P) by at least $43 + \log_{10}(P)$ dB. The limit of a emission equal to -13dBm.

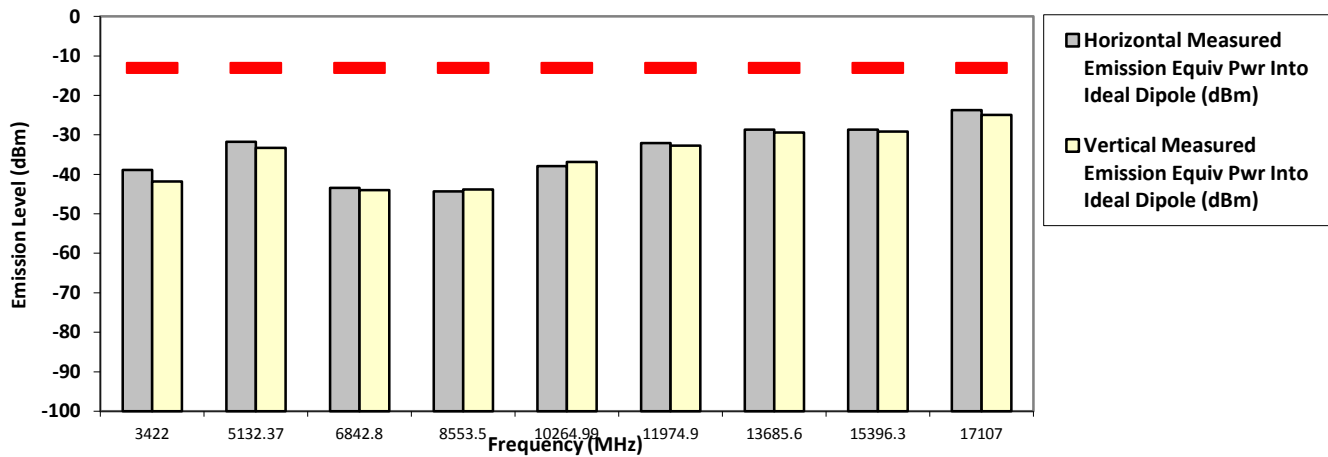
1.12.2. Radiated Spurious Emission – LTE Band 4 (1710-1755MHz)

DC configuration: Link Mode 12V

Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1710.700000 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)
3422.0000	-13.0000	-38.8700 *	-41.7800 *
5132.3700	-13.0000	-31.7600	-33.3200 *
6842.8000	-13.0000	-43.4527 **	-44.0109 **
8553.5000	-13.0000	-44.3403 **	-43.8158 **
10264.9900	-13.0000	-37.9400 *	-36.8500 *
11974.9000	-13.0000	-32.0747 **	-32.6930 **
13685.6000	-13.0000	-28.7070 **	-29.4300 **
15396.3000	-13.0000	-28.6584 **	-29.1497 **
17107.0000	-13.0000	-23.7640 **	-24.9777 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

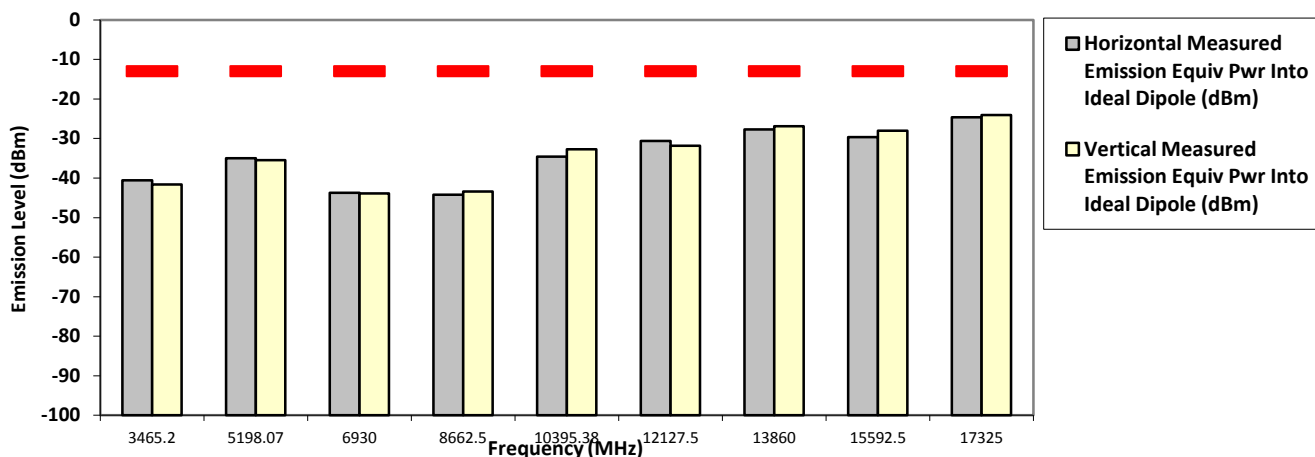
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1732.500000 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)
3465.2000	-13.0000	-40.5600 *	-41.6100 *
5198.0700	-13.0000	-35.0100 *	-35.4900 *
6930.0000	-13.0000	-43.7193 **	-43.8940 **
8662.5000	-13.0000	-44.2048 **	-43.4101 **
10395.3800	-13.0000	-34.5800 *	-32.6800
12127.5000	-13.0000	-30.6449 **	-31.8341 **
13860.0000	-13.0000	-27.7099 **	-26.9046 **
15592.5000	-13.0000	-29.6629 **	-28.0494 **
17325.0000	-13.0000	-24.6310 **	-24.0356 **

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 Fri, Mar 23, 2018
 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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

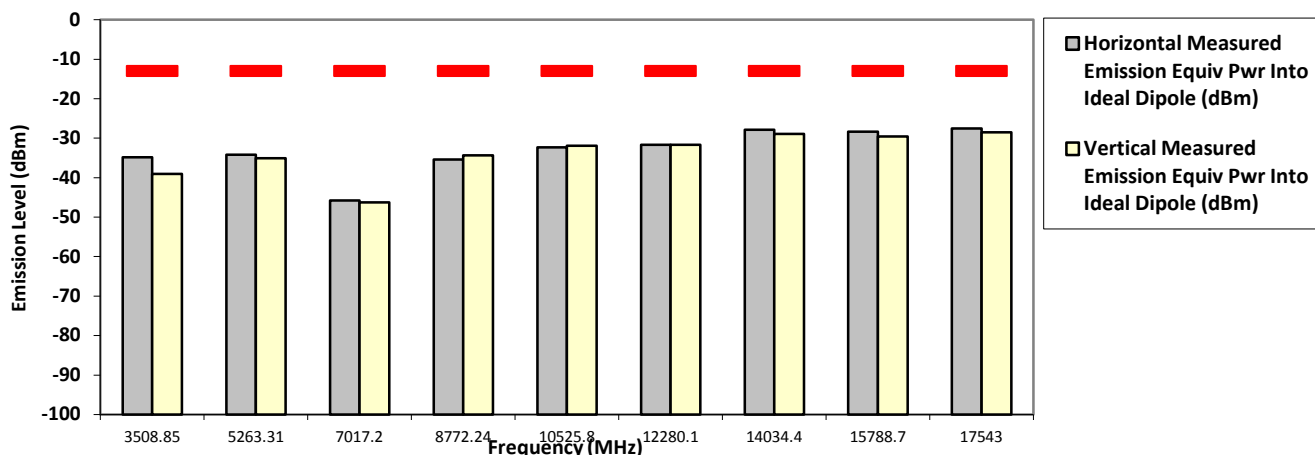
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1754.300000 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)
3508.8500	-13.0000	-34.8100 *	-39.0300 *
5263.3100	-13.0000	-34.1600 *	-35.0800 *
7017.2000	-13.0000	-45.7720 **	-46.3063 **
8772.2400	-13.0000	-35.4400 *	-34.3500 *
10525.8000	-13.0000	-32.3547 **	-31.9444 **
12280.1000	-13.0000	-31.6693 **	-31.7046 **
14034.4000	-13.0000	-27.8509 **	-28.9527 **
15788.7000	-13.0000	-28.3754 **	-29.5679 **
17543.0000	-13.0000	-27.5633 **	-28.5258 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

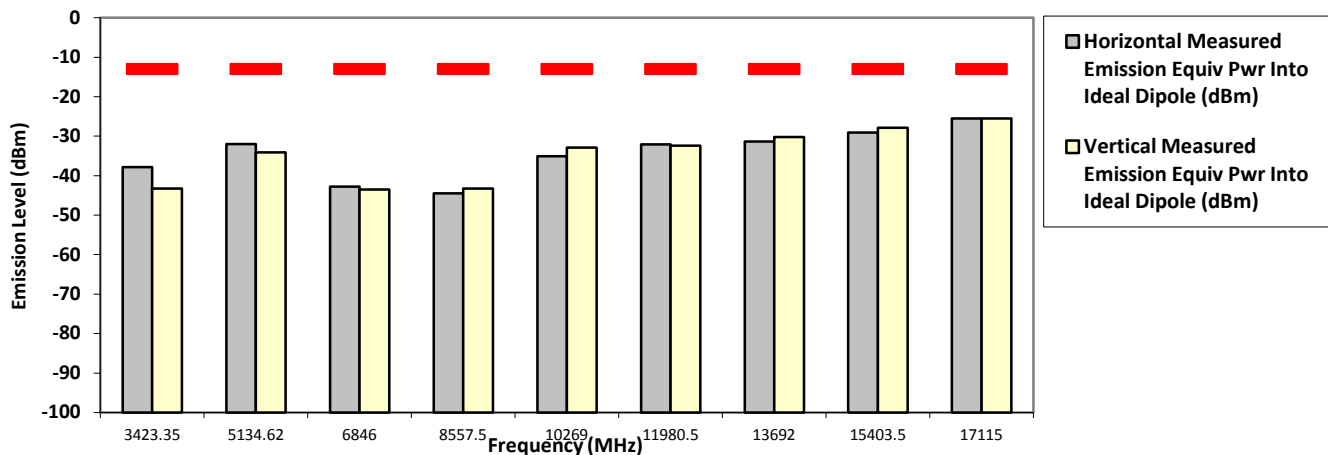
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1711.500000 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)
3423.3500	-13.0000	-37.8300 *	-43.2900 *
5134.6200	-13.0000	-32.0100	-34.0900 *
6846.0000	-13.0000	-42.8193 **	-43.4909 **
8557.5000	-13.0000	-44.5049 **	-43.2870 **
10269.0000	-13.0000	-35.0741 **	-32.9028 **
11980.5000	-13.0000	-32.0876 **	-32.4018 **
13692.0000	-13.0000	-31.3440 **	-30.2223 **
15403.5000	-13.0000	-29.0929 **	-27.8511 **
17115.0000	-13.0000	-25.5397 **	-25.5470 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

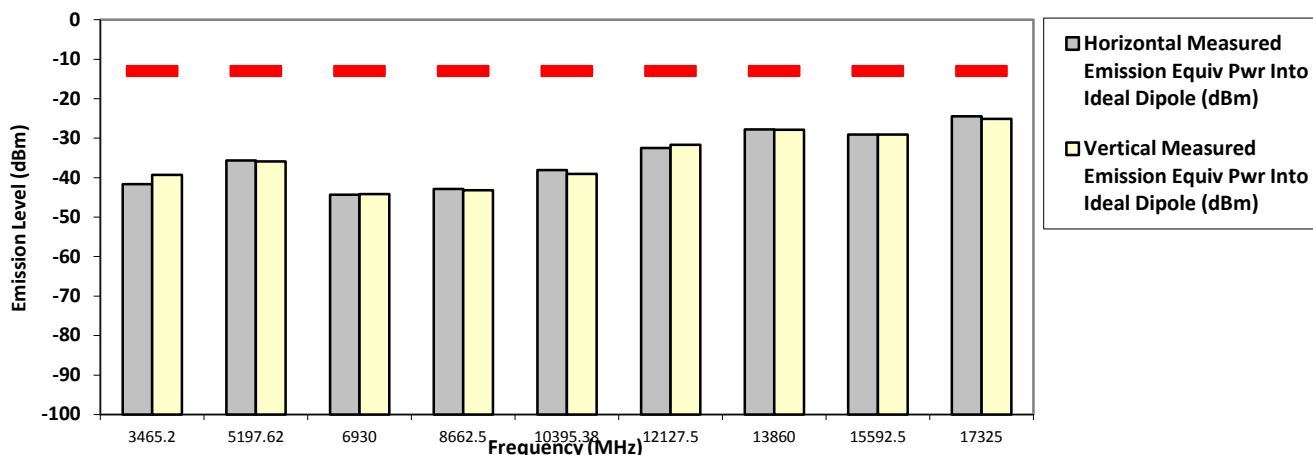
Remarks:

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

Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1732.500000 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)
3465.2000	-13.0000	-41.6400 *	-39.2700 *
5197.6200	-13.0000	-35.6500 *	-35.9100 *
6930.0000	-13.0000	-44.3123 **	-44.1598 **
8662.5000	-13.0000	-42.8567 **	-43.1519 **
10395.3800	-13.0000	-38.0400 *	-39.0500 *
12127.5000	-13.0000	-32.4989 **	-31.6595 **
13860.0000	-13.0000	-27.7549 **	-27.8749 **
15592.5000	-13.0000	-29.0673 **	-29.0590 **
17325.0000	-13.0000	-24.4764 **	-25.1144 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

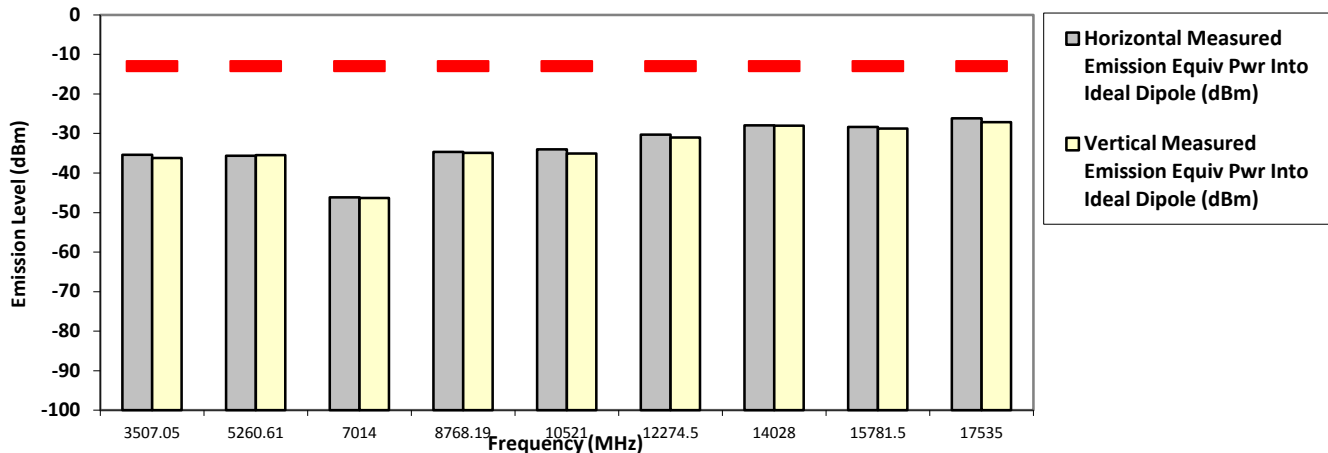
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1753.500000 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)
3507.0500	-13.0000	-35.4100 *	-36.2000 *
5260.6100	-13.0000	-35.6500 *	-35.5000 *
7014.0000	-13.0000	-46.1499 **	-46.3246 **
8768.1900	-13.0000	-34.6500 *	-34.9200 *
10521.0000	-13.0000	-33.9994 **	-35.0964 **
12274.5000	-13.0000	-30.3275 **	-30.9970 **
14028.0000	-13.0000	-27.9568 **	-27.9915 **
15781.5000	-13.0000	-28.3732 **	-28.7138 **
17535.0000	-13.0000	-26.1711 **	-27.1411 **

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

Fri, Mar 23, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

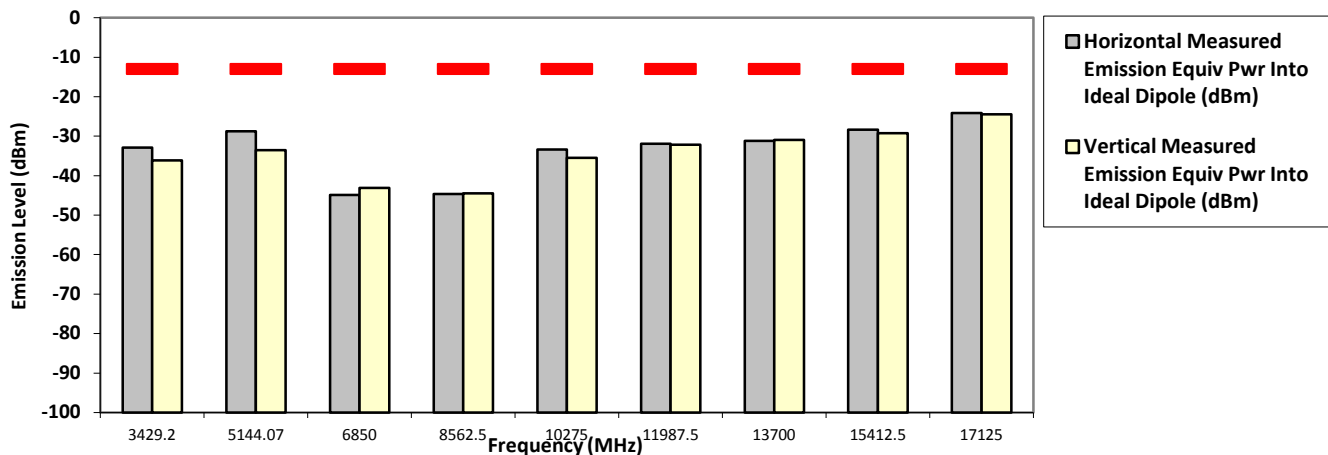
Remarks:

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

Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1712.500000 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)
3429.2000	-13.0000	-32.9300	-36.1700 *
5144.0700	-13.0000	-28.7800	-33.5000 *
6850.0000	-13.0000	-44.9033 **	-43.0778 **
8562.5000	-13.0000	-44.6074 **	-44.5214 **
10275.0000	-13.0000	-33.3494 **	-35.4487 **
11987.5000	-13.0000	-31.9571 **	-32.1891 **
13700.0000	-13.0000	-31.2118 **	-30.9833 **
15412.5000	-13.0000	-28.3783 **	-29.2575 **
17125.0000	-13.0000	-24.1756 **	-24.4318 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

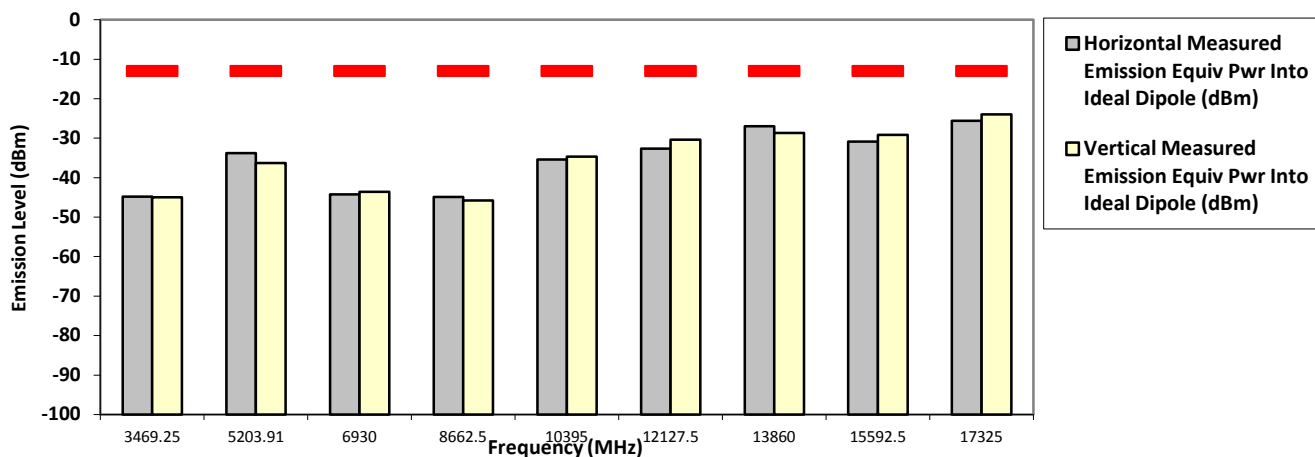
Remarks:

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

Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1732.500000 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)
3469.2500	-13.0000	-44.7700 *	-44.9800 *
5203.9100	-13.0000	-33.7900 *	-36.2600 *
6930.0000	-13.0000	-44.2768 **	-43.6205 **
8662.5000	-13.0000	-44.8938 **	-45.7913 **
10395.0000	-13.0000	-35.4372 **	-34.6578 **
12127.5000	-13.0000	-32.6660 **	-30.4020 **
13860.0000	-13.0000	-26.9443 **	-28.6711 **
15592.5000	-13.0000	-30.8447 **	-29.1365 **
17325.0000	-13.0000	-25.6248 **	-23.9439 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

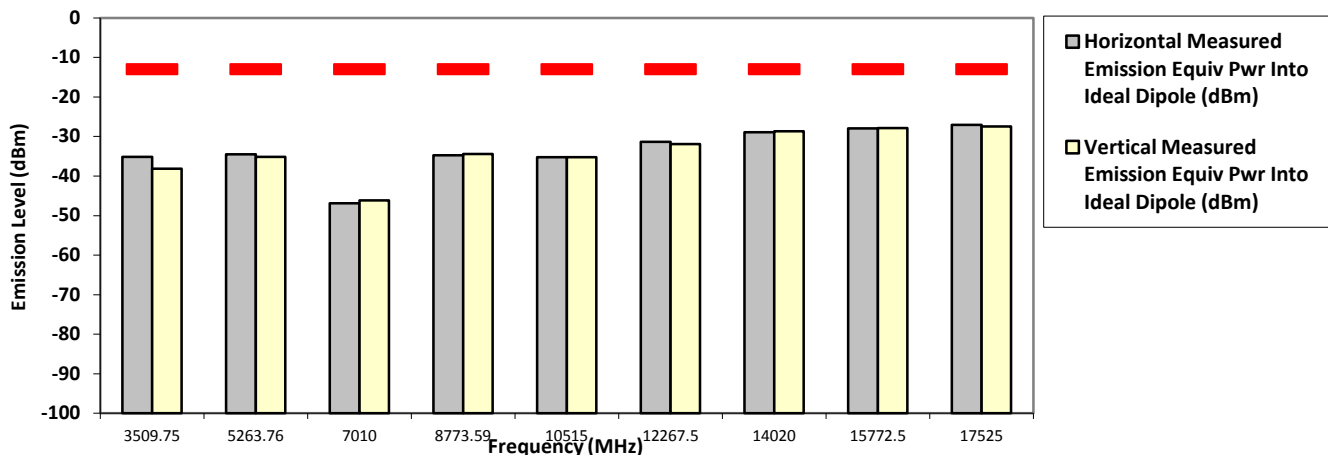
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1752.500000 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)
3509.7500	-13.0000	-35.1500 *	-38.1100 *
5263.7600	-13.0000	-34.4900 *	-35.1200 *
7010.0000	-13.0000	-46.8878 **	-46.1521 **
8773.5900	-13.0000	-34.7500 *	-34.4200 *
10515.0000	-13.0000	-35.2376 **	-35.1888 **
12267.5000	-13.0000	-31.3384 **	-31.9382 **
14020.0000	-13.0000	-28.8914 **	-28.6751 **
15772.5000	-13.0000	-27.9820 **	-27.8755 **
17525.0000	-13.0000	-27.0364 **	-27.4561 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

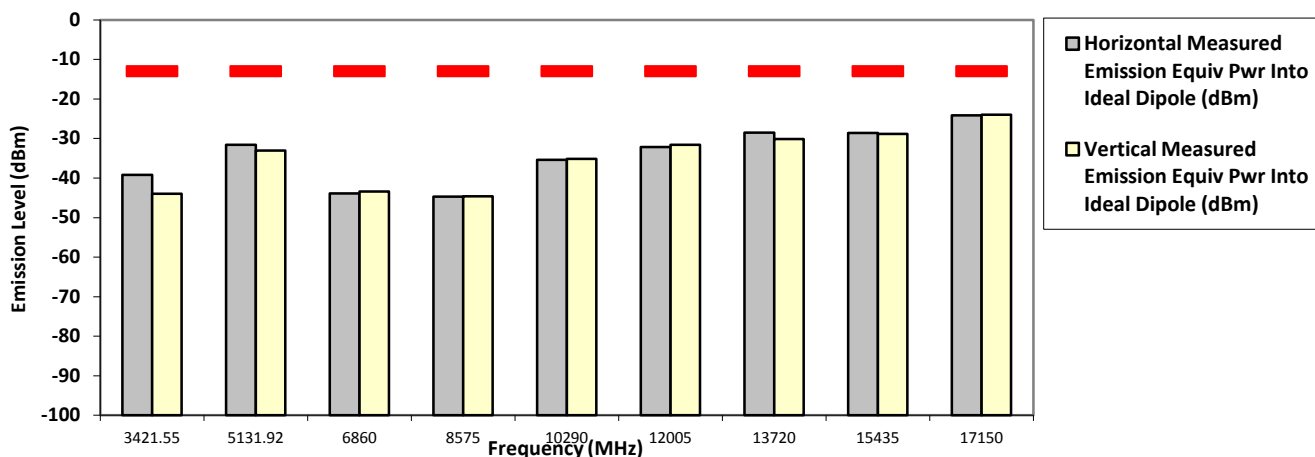
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1715.000000 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)
3421.5500	-13.0000	-39.1900 *	-43.9500 *
5131.9200	-13.0000	-31.6200	-33.0200 *
6860.0000	-13.0000	-43.8985 **	-43.3954 **
8575.0000	-13.0000	-44.6765 **	-44.6289 **
10290.0000	-13.0000	-35.4155 **	-35.1773 **
12005.0000	-13.0000	-32.1690 **	-31.5834 **
13720.0000	-13.0000	-28.4920 **	-30.1427 **
15435.0000	-13.0000	-28.6004 **	-28.8711 **
17150.0000	-13.0000	-24.1126 **	-24.0145 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

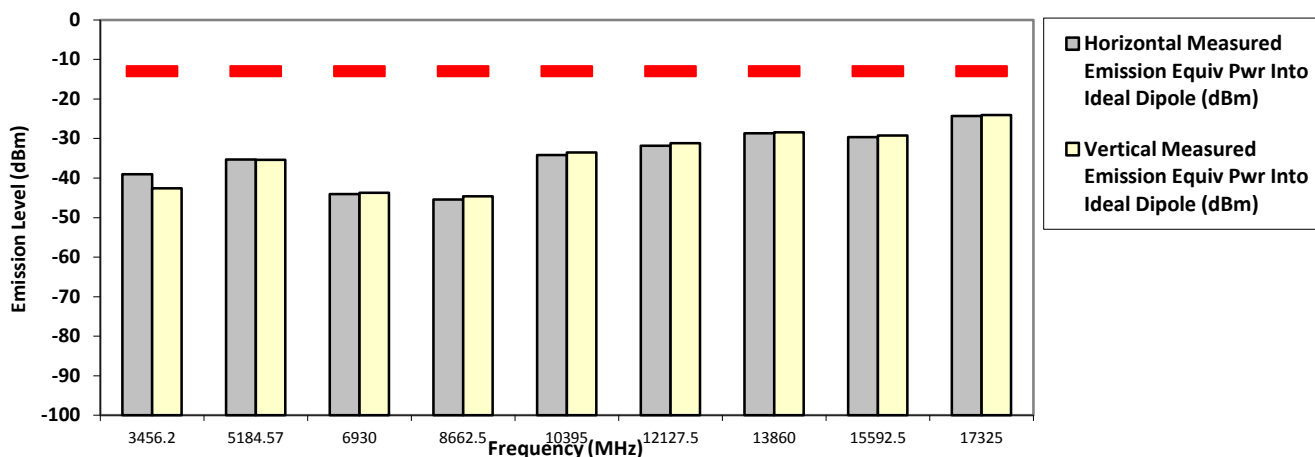
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1732.500000 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)
3456.2000	-13.0000	-39.0400 *	-42.6200 *
5184.5700	-13.0000	-35.3400 *	-35.4000 *
6930.0000	-13.0000	-44.0171 **	-43.7101 **
8662.5000	-13.0000	-45.4036 **	-44.5897 **
10395.0000	-13.0000	-34.1454 **	-33.5184 **
12127.5000	-13.0000	-31.8670 **	-31.1548 **
13860.0000	-13.0000	-28.6539 **	-28.4125 **
15592.5000	-13.0000	-29.6674 **	-29.2470 **
17325.0000	-13.0000	-24.2751 **	-24.1011 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

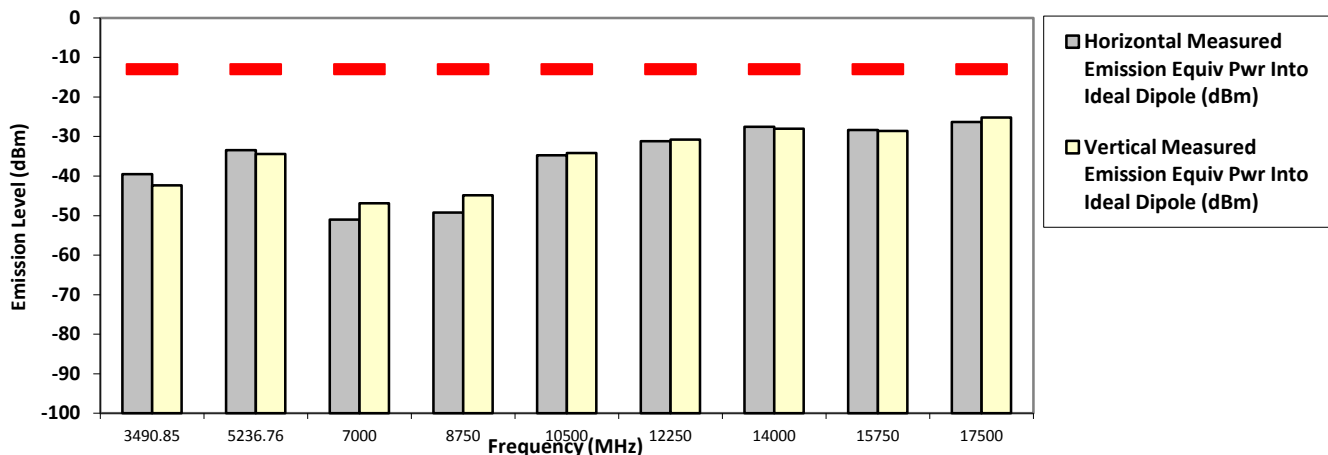
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1750.000000 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)
3490.8500	-13.0000	-39.5000 *	-42.3300 *
5236.7600	-13.0000	-33.4200 *	-34.3900 *
7000.0000	-13.0000	-51.0164 **	-46.8890 **
8750.0000	-13.0000	-49.2432 **	-44.8369 **
10500.0000	-13.0000	-34.7054 **	-34.2083 **
12250.0000	-13.0000	-31.2018 **	-30.7960 **
14000.0000	-13.0000	-27.5444 **	-28.0370 **
15750.0000	-13.0000	-28.3878 **	-28.5601 **
17500.0000	-13.0000	-26.3500 **	-25.1620 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

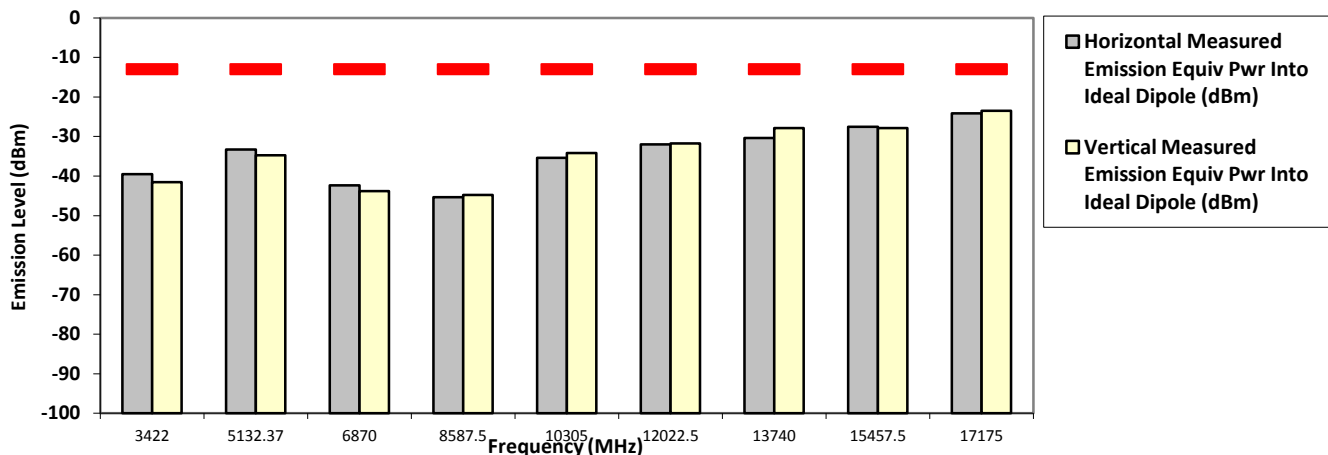
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1717.500000 MHz (Low) Bandwidth 15MHz 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)
3422.0000	-13.0000	-39.5500 *	-41.5000 *
5132.3700	-13.0000	-33.2600 *	-34.7100 *
6870.0000	-13.0000	-42.3463 **	-43.8087 **
8587.5000	-13.0000	-45.3413 **	-44.7786 **
10305.0000	-13.0000	-35.3549 **	-34.1713 **
12022.5000	-13.0000	-31.9542 **	-31.7343 **
13740.0000	-13.0000	-30.3503 **	-27.8524 **
15457.5000	-13.0000	-27.5391 **	-27.8523 **
17175.0000	-13.0000	-24.1425 **	-23.4689 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

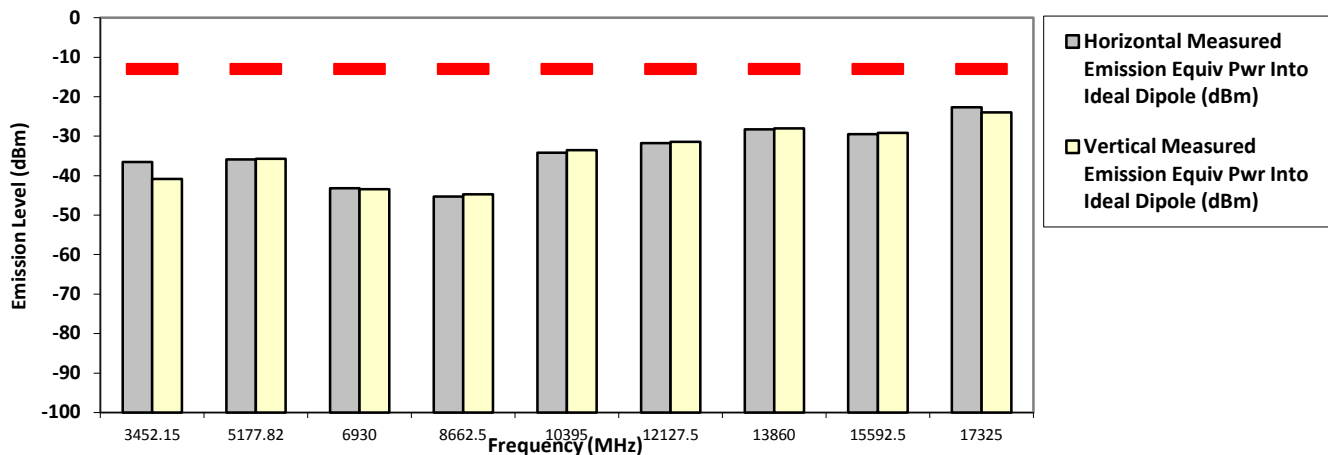
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1732.500000 MHz (Mid) Bandwidth 15MHz 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)
3452.1500	-13.0000	-36.5400 *	-40.8500 *
5177.8200	-13.0000	-35.9000 *	-35.6900 *
6930.0000	-13.0000	-43.1626 **	-43.4310 **
8662.5000	-13.0000	-45.2775 **	-44.6990 **
10395.0000	-13.0000	-34.1913 **	-33.5763 **
12127.5000	-13.0000	-31.7371 **	-31.4257 **
13860.0000	-13.0000	-28.2691 **	-27.9951 **
15592.5000	-13.0000	-29.5001 **	-29.1853 **
17325.0000	-13.0000	-22.6604 **	-23.9606 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

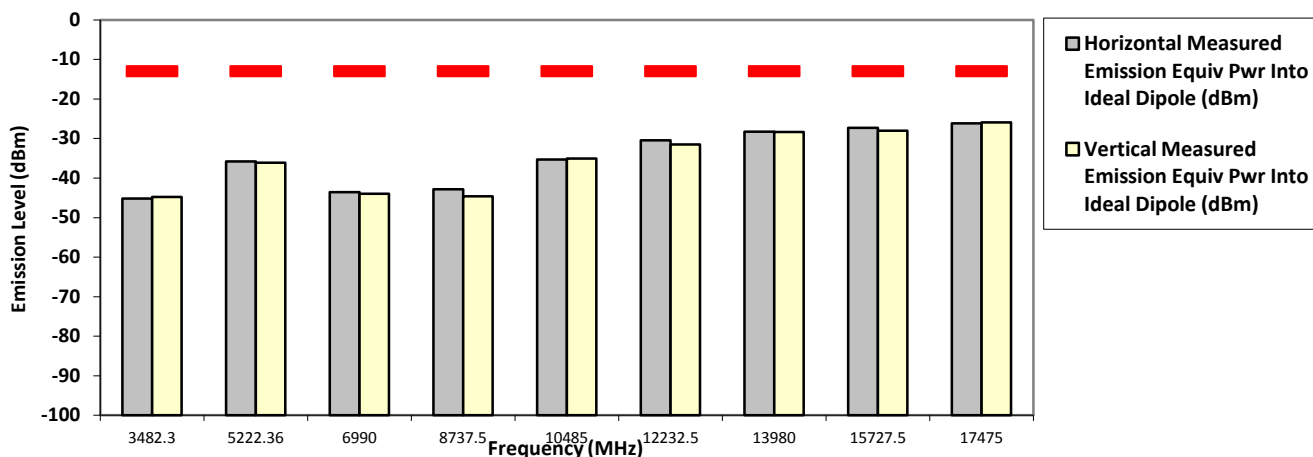
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1747.500000 MHz (High) Bandwidth 15MHz 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)
3482.3000	-13.0000	-45.1800 *	-44.7500 *
5222.3600	-13.0000	-35.7600 *	-36.1000 *
6990.0000	-13.0000	-43.5593 **	-43.9741 **
8737.5000	-13.0000	-42.8373 **	-44.6079 **
10485.0000	-13.0000	-35.2993 **	-35.0636 **
12232.5000	-13.0000	-30.4753 **	-31.4948 **
13980.0000	-13.0000	-28.2724 **	-28.3634 **
15727.5000	-13.0000	-27.3070 **	-28.0236 **
17475.0000	-13.0000	-26.1747 **	-25.8848 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

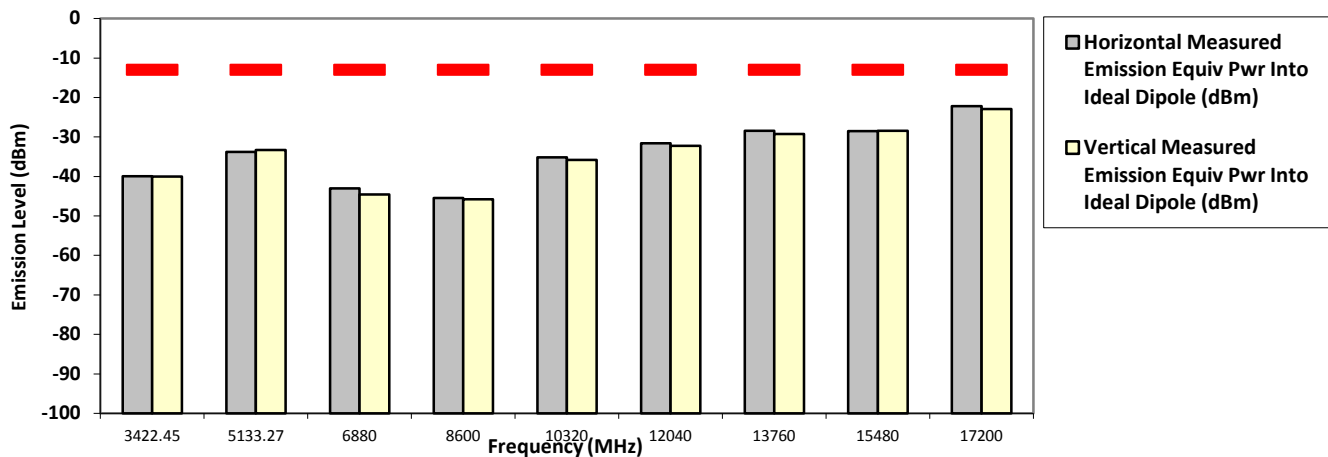
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1720.000000 MHz (Low) Bandwidth 20MHz 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)
3422.4500	-13.0000	-39.9700 *	-39.9900 *
5133.2700	-13.0000	-33.7900 *	-33.2700 *
6880.0000	-13.0000	-42.9861 **	-44.5935 **
8600.0000	-13.0000	-45.4442 **	-45.7642 **
10320.0000	-13.0000	-35.1421 **	-35.8262 **
12040.0000	-13.0000	-31.6094 **	-32.2554 **
13760.0000	-13.0000	-28.4045 **	-29.2812 **
15480.0000	-13.0000	-28.5035 **	-28.4555 **
17200.0000	-13.0000	-22.2013 **	-22.9347 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

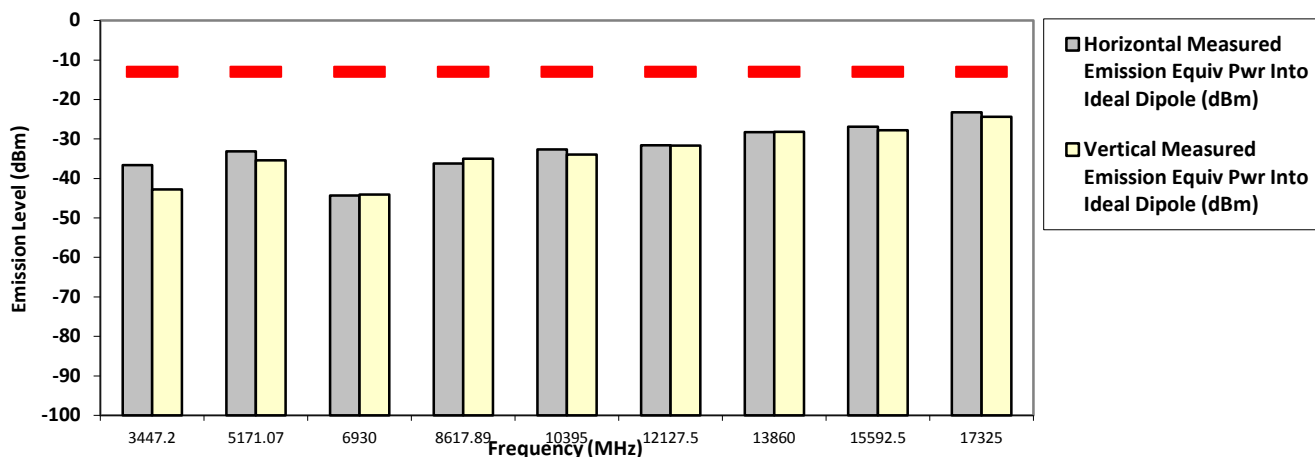
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
Test Mode: TX LTE (Band 4)
1732.500000 MHz (Mid) Bandwidth 20MHz 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)
3447.2000	-13.0000	-36.6300 *	-42.7900 *
5171.0700	-13.0000	-33.1100 *	-35.4000 *
6930.0000	-13.0000	-44.3345 **	-44.0675 **
8617.8900	-13.0000	-36.2200 *	-34.9700 *
10395.0000	-13.0000	-32.6707 **	-33.9830 **
12127.5000	-13.0000	-31.6012 **	-31.6547 **
13860.0000	-13.0000	-28.2387 **	-28.1620 **
15592.5000	-13.0000	-26.9268 **	-27.7702 **
17325.0000	-13.0000	-23.2374 **	-24.3785 **

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

Fri, Mar 23, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

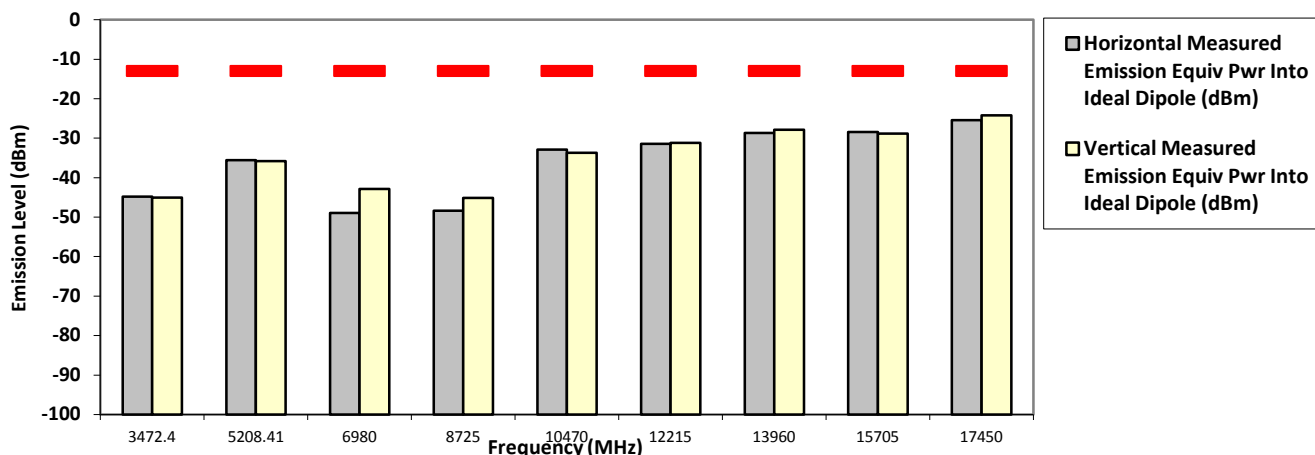
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1745.000000 MHz (High) Bandwidth 20MHz 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)
3472.4000	-13.0000	-44.8400 *	-45.0400 *
5208.4100	-13.0000	-35.5500 *	-35.8200 *
6980.0000	-13.0000	-48.9809 **	-42.8443 **
8725.0000	-13.0000	-48.3827 **	-45.1262 **
10470.0000	-13.0000	-32.9145 **	-33.6907 **
12215.0000	-13.0000	-31.4164 **	-31.1596 **
13960.0000	-13.0000	-28.6693 **	-27.8404 **
15705.0000	-13.0000	-28.4475 **	-28.8594 **
17450.0000	-13.0000	-25.4395 **	-24.2026 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

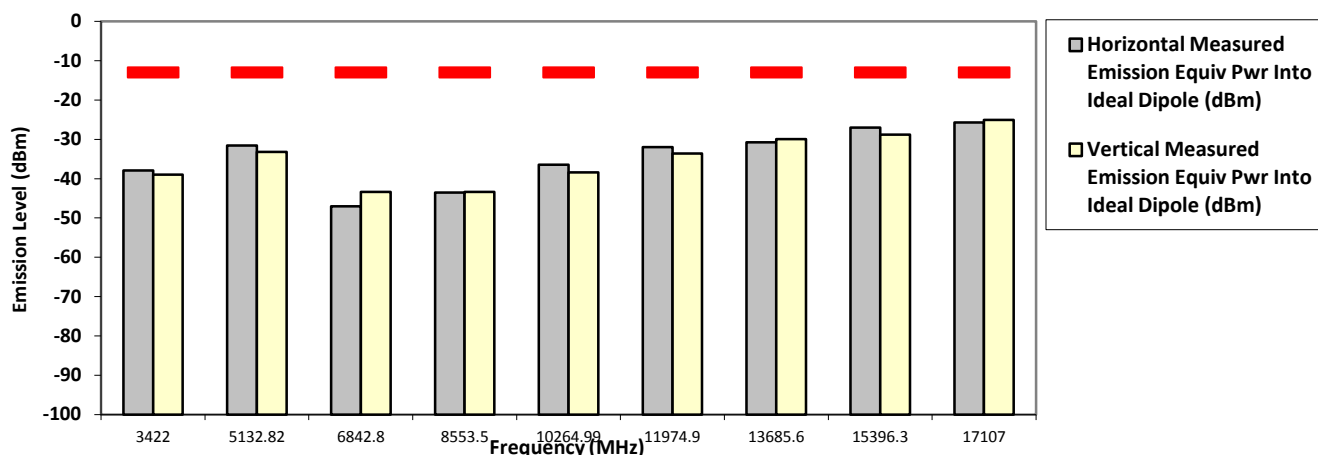
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1710.700000 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)
3422.0000	-13.0000	-37.9200 *	-38.9700 *
5132.8200	-13.0000	-31.5500	-33.1900 *
6842.8000	-13.0000	-47.0339 **	-43.4047 **
8553.5000	-13.0000	-43.5185 **	-43.3699 **
10264.9900	-13.0000	-36.4400 *	-38.4000 *
11974.9000	-13.0000	-31.9956 **	-33.5874 **
13685.6000	-13.0000	-30.7907 **	-29.9332 **
15396.3000	-13.0000	-27.0445 **	-28.7678 **
17107.0000	-13.0000	-25.7318 **	-25.0154 **

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

Fri, Mar 23, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

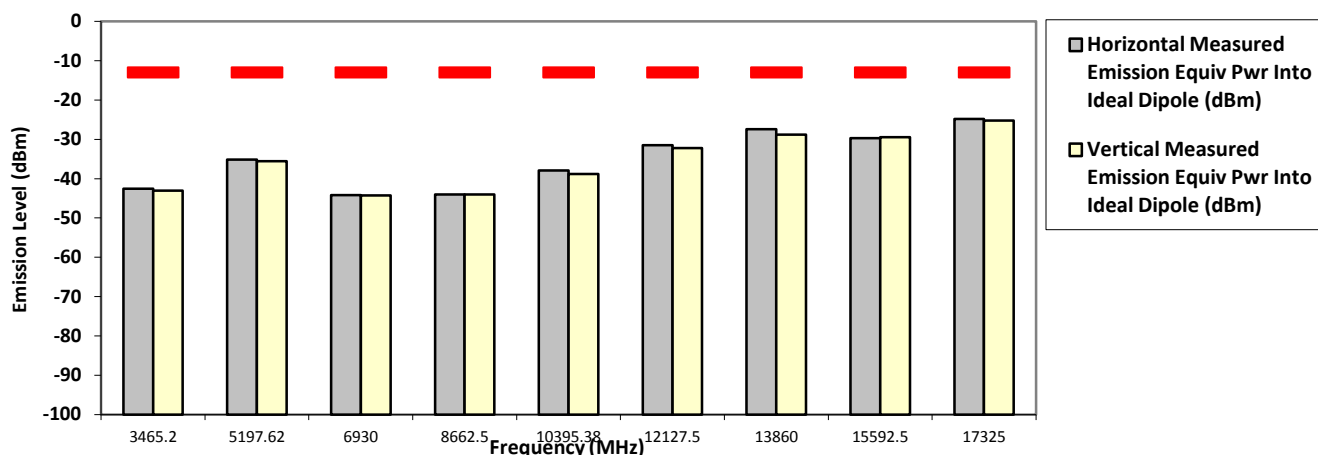
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1732.500000 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)
3465.2000	-13.0000	-42.5600 *	-43.0800 *
5197.6200	-13.0000	-35.1200 *	-35.5300 *
6930.0000	-13.0000	-44.2168 **	-44.2838 **
8662.5000	-13.0000	-44.0055 **	-43.9898 **
10395.3800	-13.0000	-37.9100 *	-38.8100 *
12127.5000	-13.0000	-31.4530 **	-32.2442 **
13860.0000	-13.0000	-27.4501 **	-28.7862 **
15592.5000	-13.0000	-29.6884 **	-29.4164 **
17325.0000	-13.0000	-24.7746 **	-25.2433 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

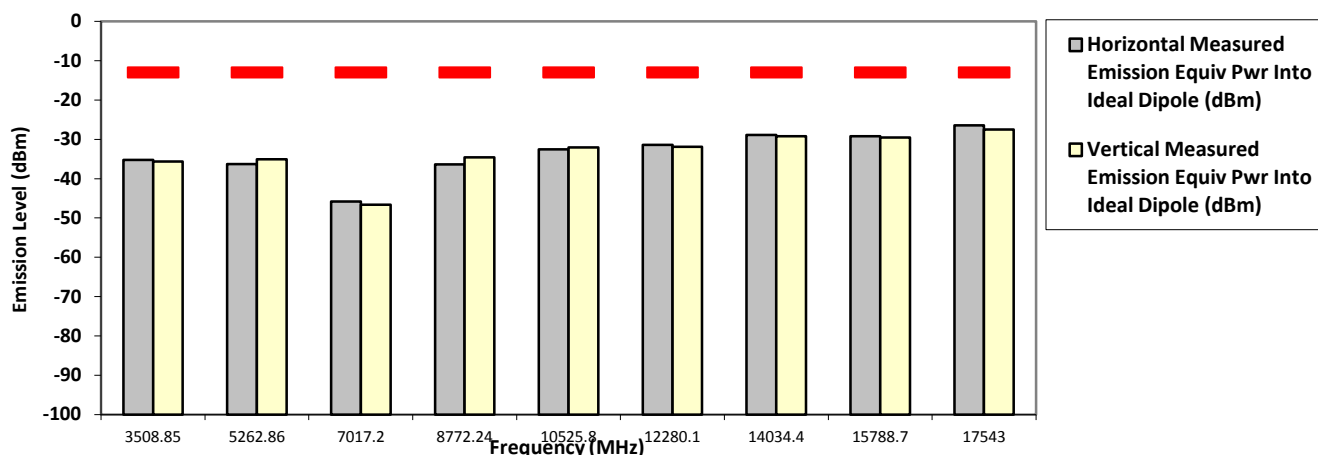
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1754.300000 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)
3508.8500	-13.0000	-35.2600 *	-35.6100 *
5262.8600	-13.0000	-36.2500 *	-35.0700 *
7017.2000	-13.0000	-45.8433 **	-46.6291 **
8772.2400	-13.0000	-36.3900 *	-34.5400 *
10525.8000	-13.0000	-32.5447 **	-32.0349 **
12280.1000	-13.0000	-31.4390 **	-31.8779 **
14034.4000	-13.0000	-28.9098 **	-29.1807 **
15788.7000	-13.0000	-29.1750 **	-29.5600 **
17543.0000	-13.0000	-26.4556 **	-27.4943 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

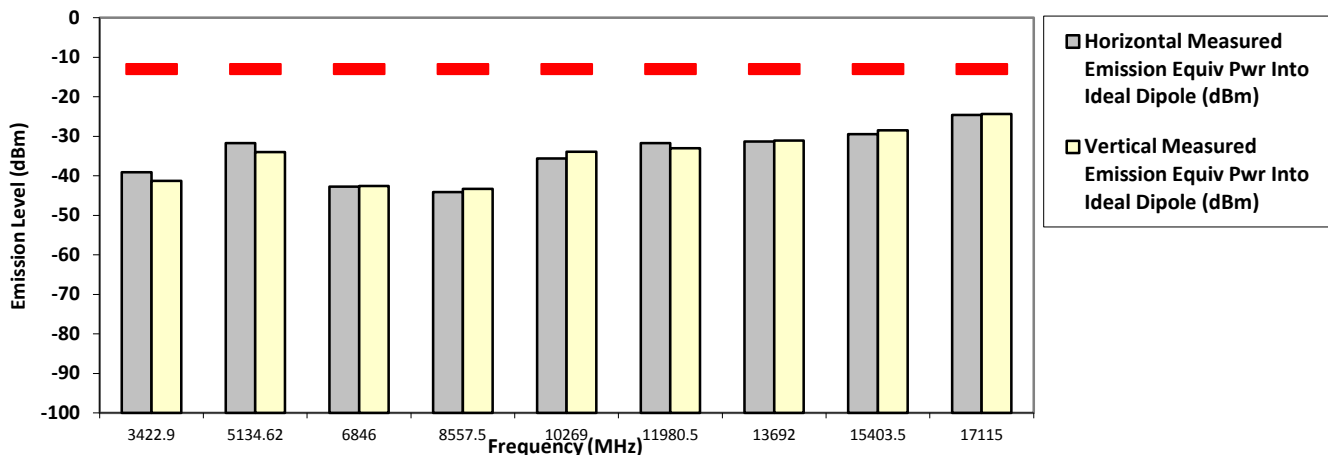
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1711.500000 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)
3422.9000	-13.0000	-39.0800 *	-41.2900 *
5134.6200	-13.0000	-31.7100	-33.9900 *
6846.0000	-13.0000	-42.7697 **	-42.5534 **
8557.5000	-13.0000	-44.1321 **	-43.2785 **
10269.0000	-13.0000	-35.6007 **	-33.9148 **
11980.5000	-13.0000	-31.7570 **	-33.0103 **
13692.0000	-13.0000	-31.2735 **	-31.0356 **
15403.5000	-13.0000	-29.4736 **	-28.4762 **
17115.0000	-13.0000	-24.6056 **	-24.3397 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

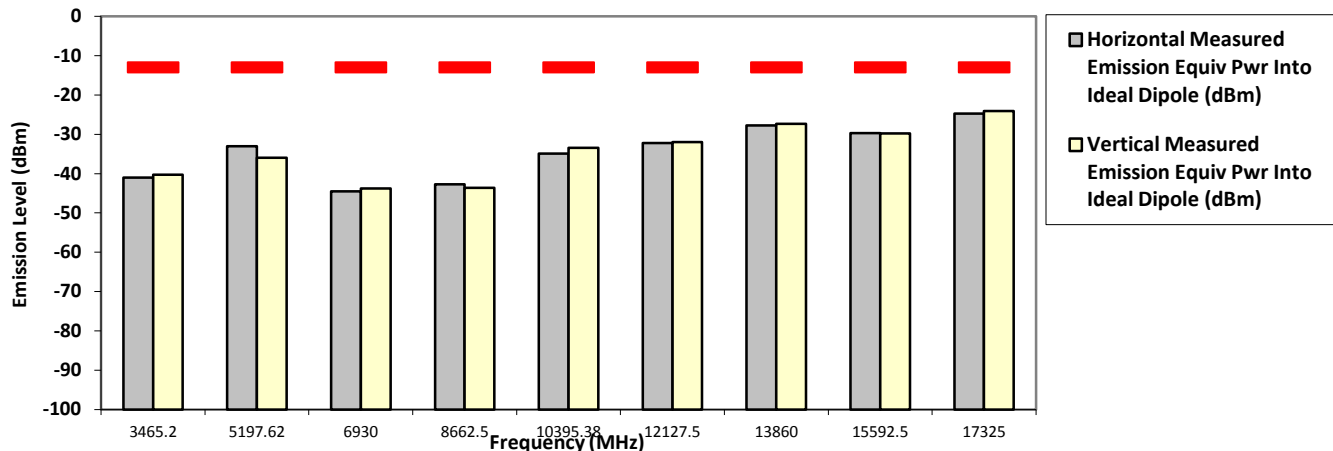
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TTV0214 SR:08397-EMC-00132
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 4)
 1732.500000 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)
3465.2000	-13.0000	-41.0100 *	-40.2900 *
5197.6200	-13.0000	-33.0300 *	-36.0000 *
6930.0000	-13.0000	-44.5392 **	-43.7798 **
8662.5000	-13.0000	-42.6874 **	-43.6291 **
10395.3800	-13.0000	-34.9000 *	-33.4300 *
12127.5000	-13.0000	-32.2568 **	-31.9835 **
13860.0000	-13.0000	-27.7783 **	-27.3308 **
15592.5000	-13.0000	-29.7170 **	-29.7427 **
17325.0000	-13.0000	-24.6934 **	-24.0724 **

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

Fri, Mar 23, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:

Model Number: LEX L11n

S/N: 790TTV0214

SR:08397-EMC-00132

Battery Part No: PMNN4546A

Accy Part No: 8397-PMLN7779A-5

Test Mode: TX LTE (Band 4)

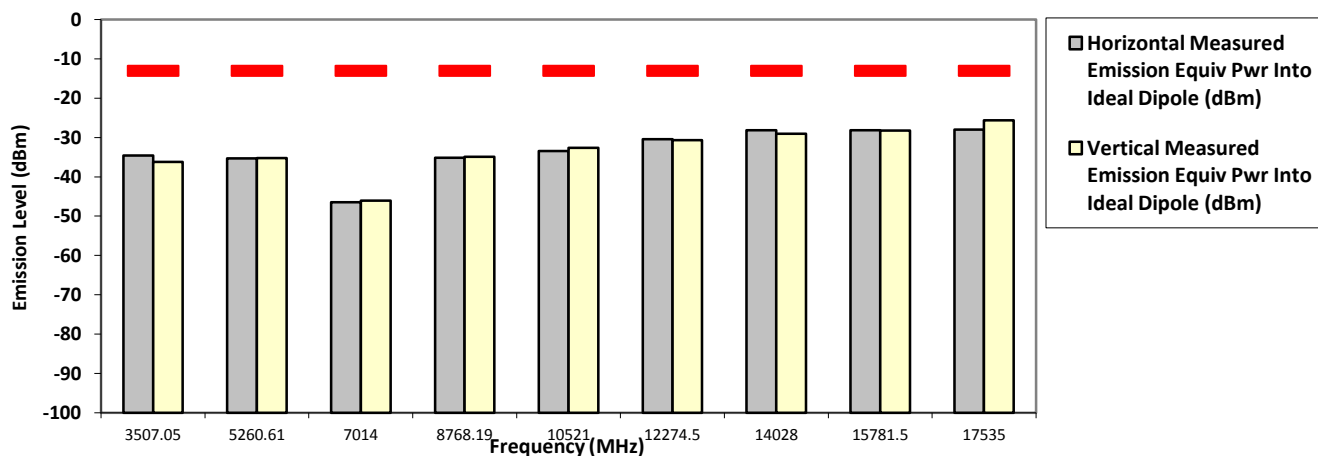
1753.500000 MHz (High)

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)
3507.0500	-13.0000	-34.5900 *	-36.2100 *
5260.6100	-13.0000	-35.3100 *	-35.2700 *
7014.0000	-13.0000	-46.4306 **	-46.0896 **
8768.1900	-13.0000	-35.1900 *	-34.8900 *
10521.0000	-13.0000	-33.4478 **	-32.6404 **
12274.5000	-13.0000	-30.3880 **	-30.6507 **
14028.0000	-13.0000	-28.1105 **	-29.0592 **
15781.5000	-13.0000	-28.1604 **	-28.2296 **
17535.0000	-13.0000	-27.9554 **	-25.6115 **

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

Sat, Feb 03, 2018

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): 23.1 Hum(%RH): 64.5

System MU: 5.01 dB

Remarks:

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