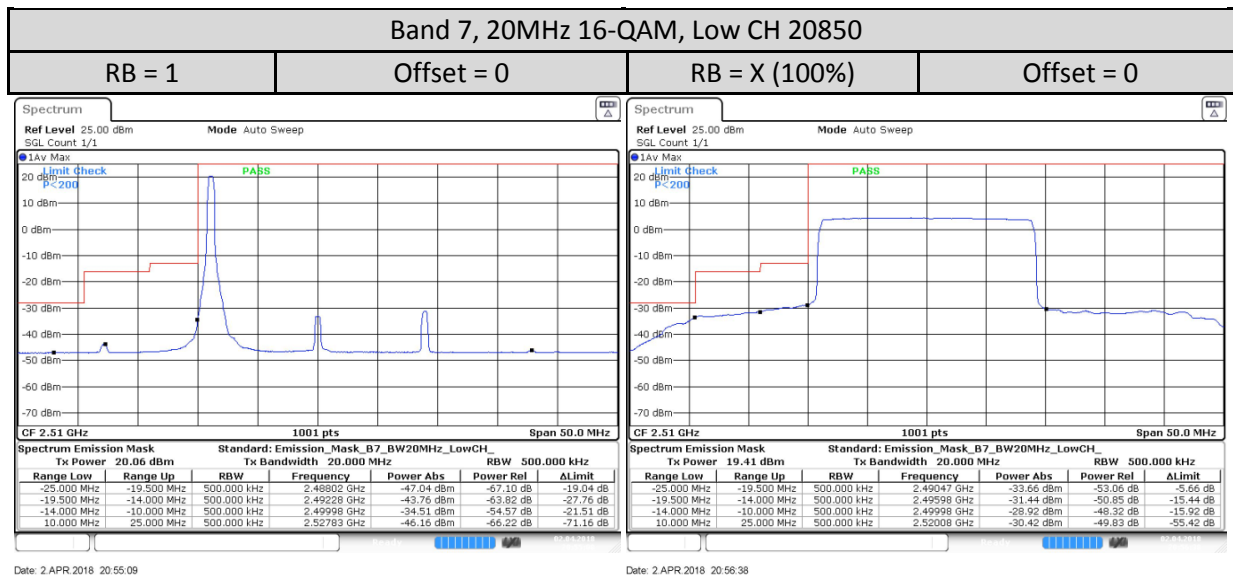
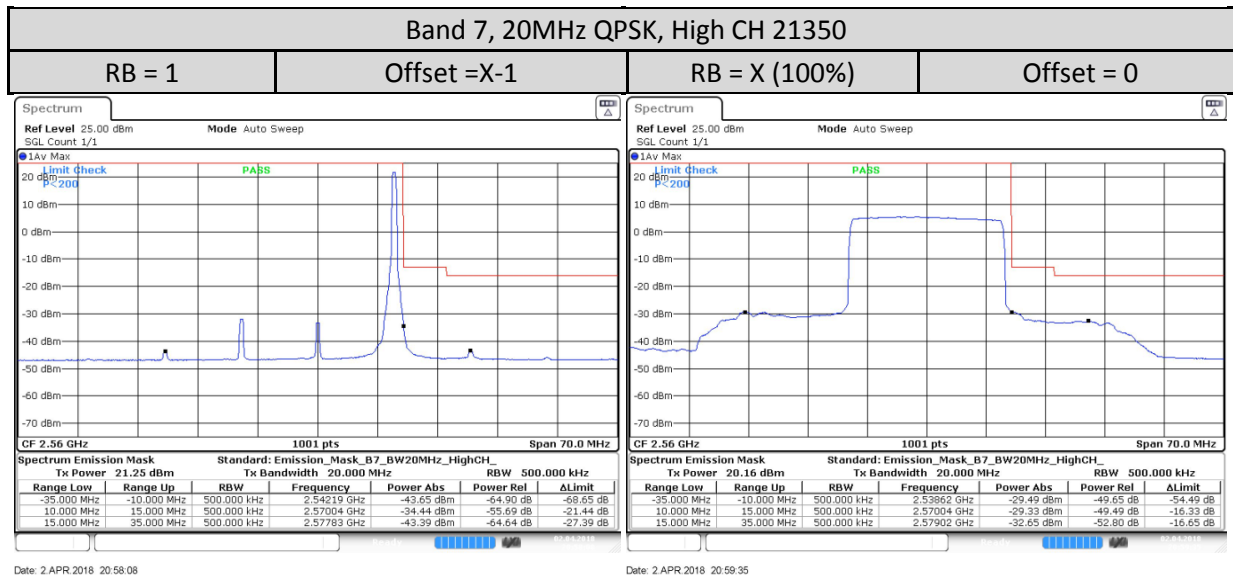
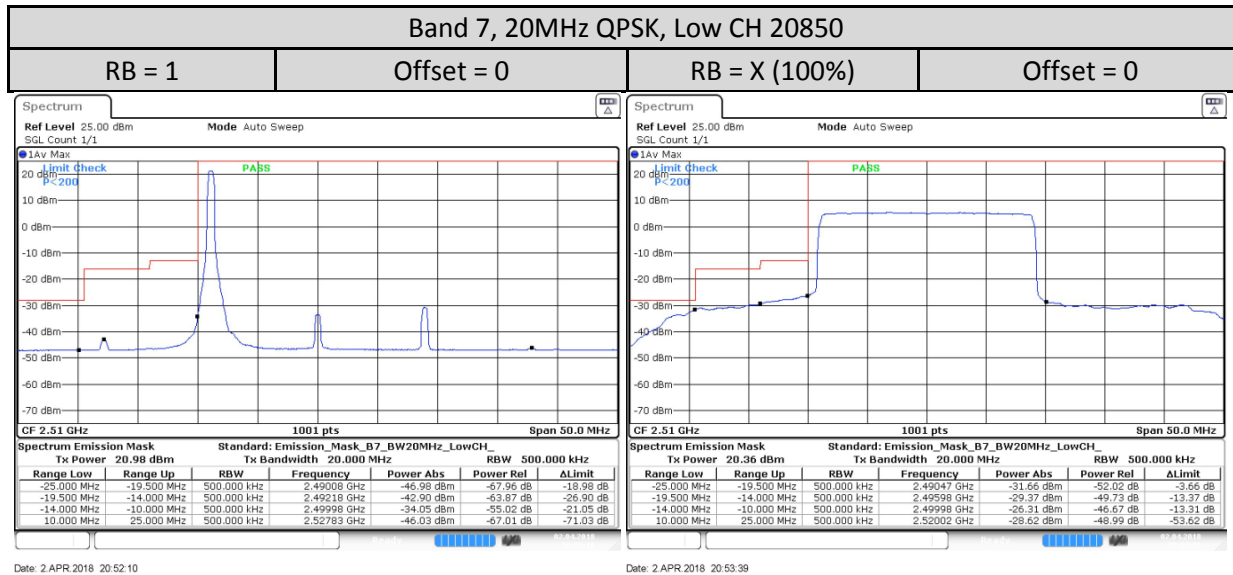
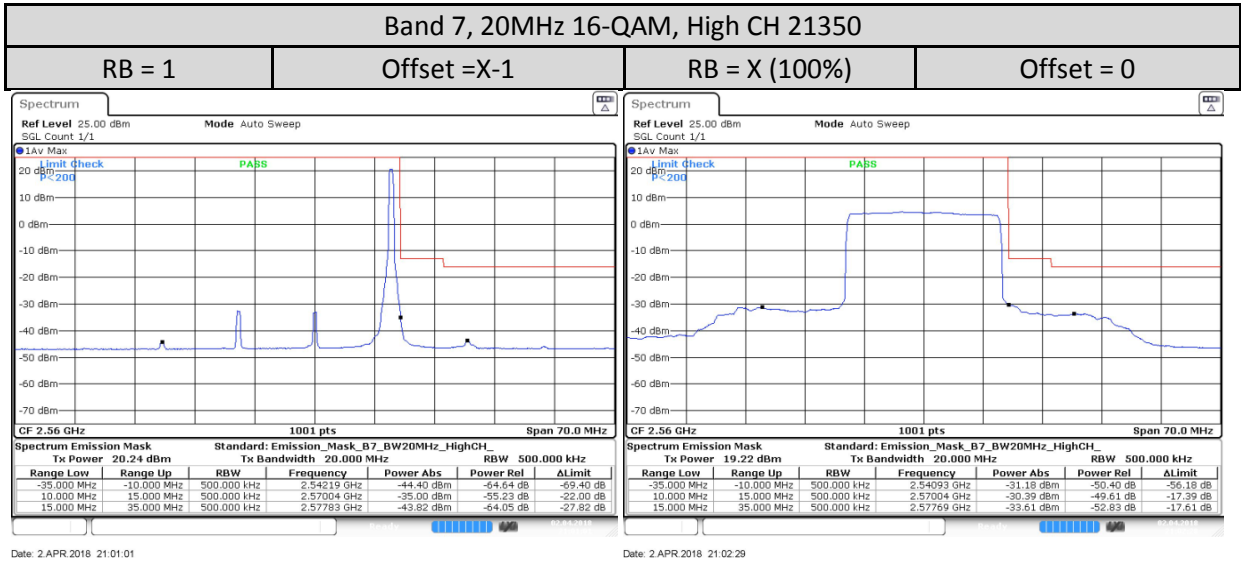
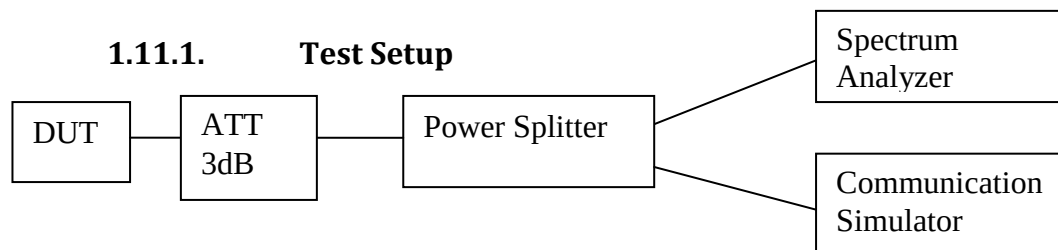






1.11. Conducted Spurious Emission



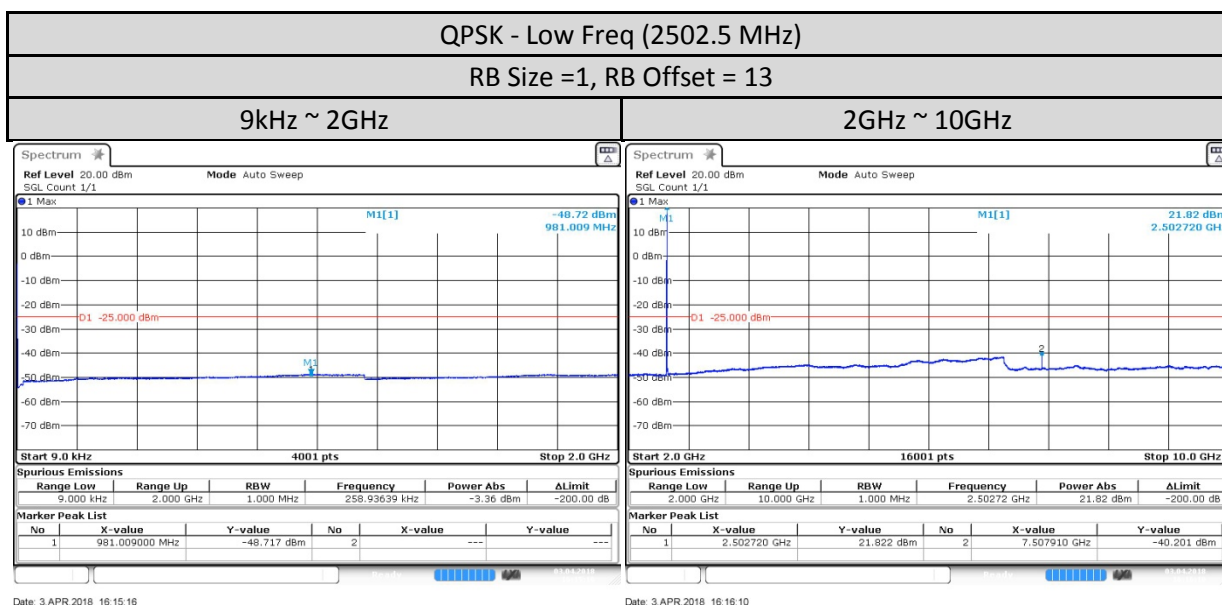
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) Spectrum Analyzer setting, RBW = 1 MHz, VBW = 3 MHz.
- 5) The spurious emission of 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

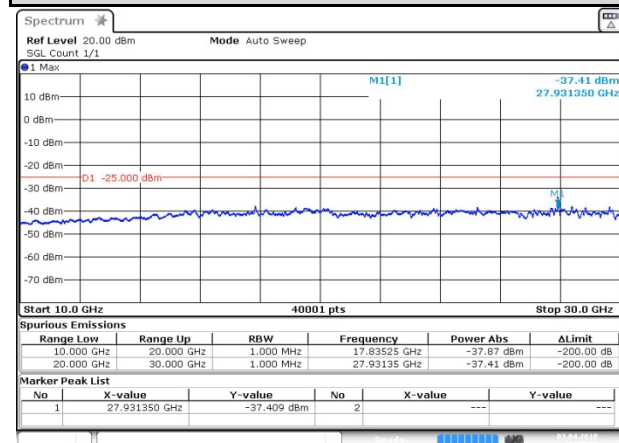
For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the *channel* edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

1.11.3. Conducted Spurious Emissions –LTE Band 7 (2500 - 2570MHz)

5MHz



10GHz ~ 20GHz

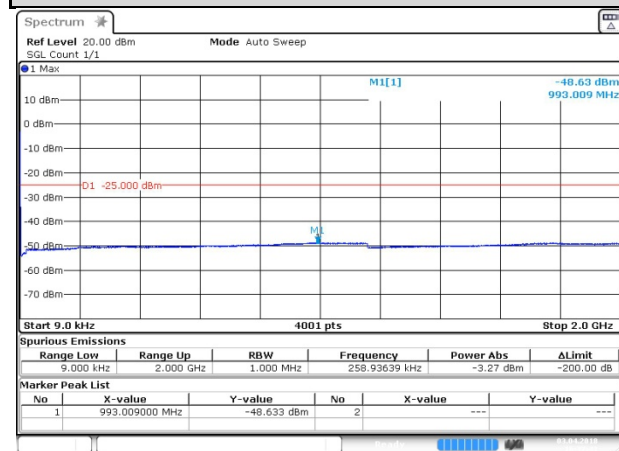


Date: 3 APR 2018 16:17:29

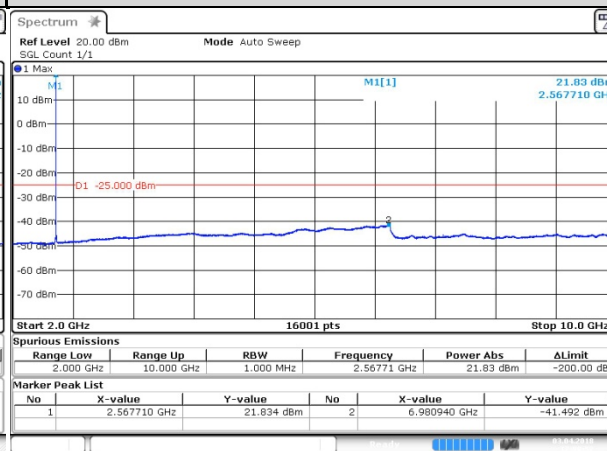
QPSK - Mid Freq (2535 MHz)

RB Size =1, RB Offset = 13

9kHz ~ 2GHz 2GHz ~ 10GHz

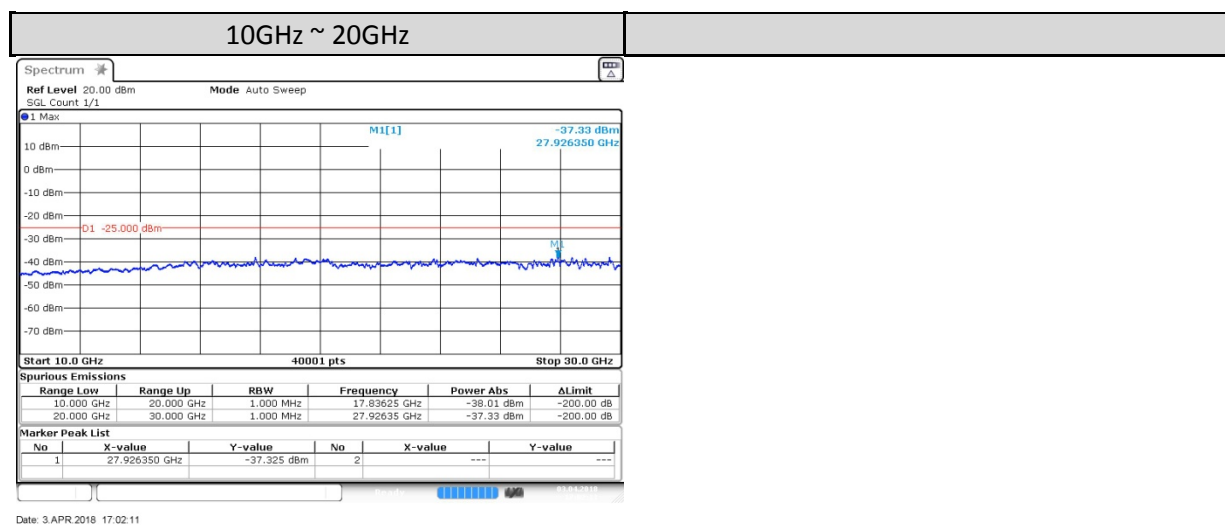
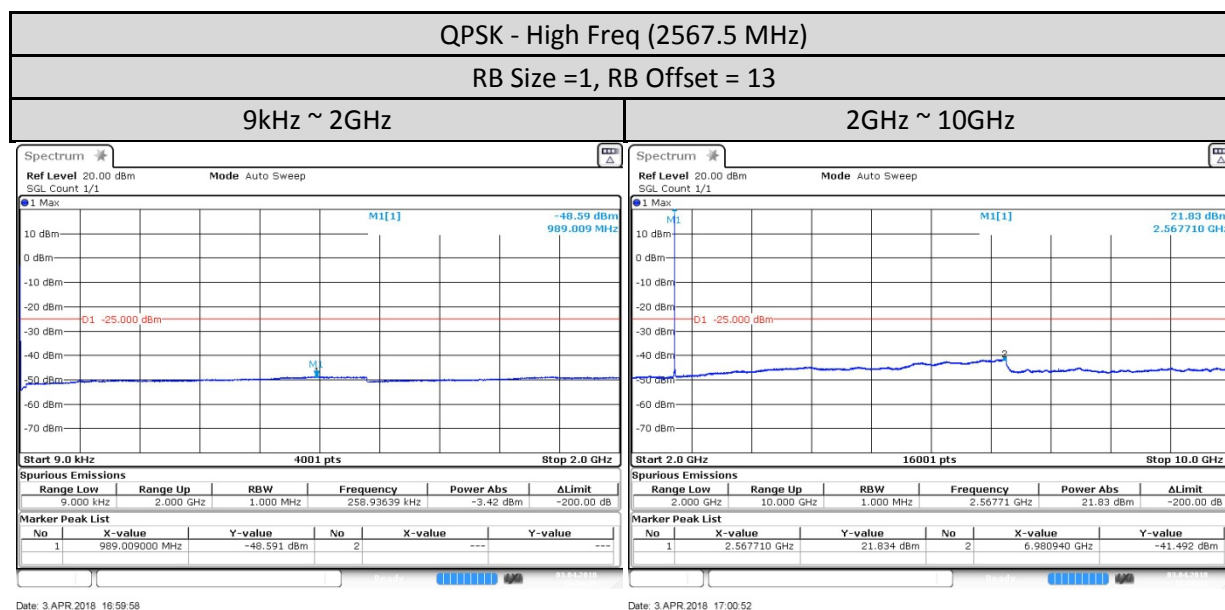
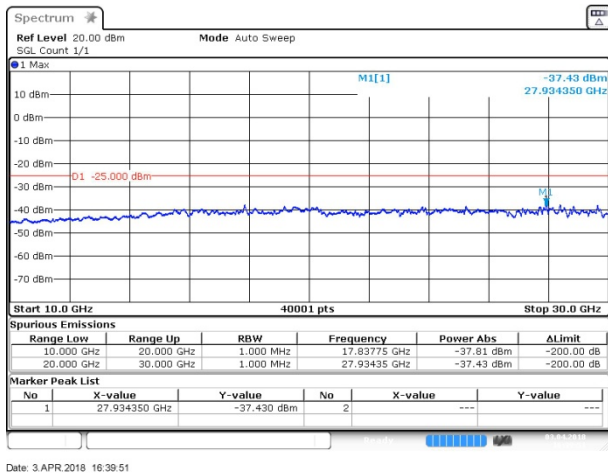


Date: 3 APR 2018 16:17:41

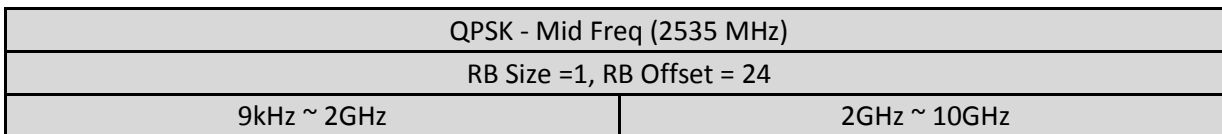
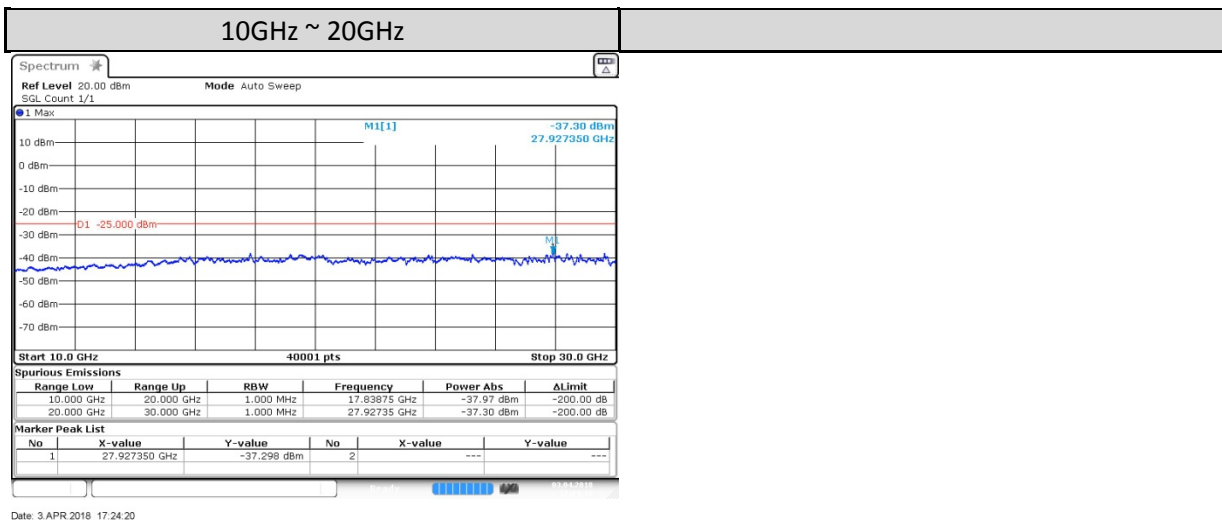
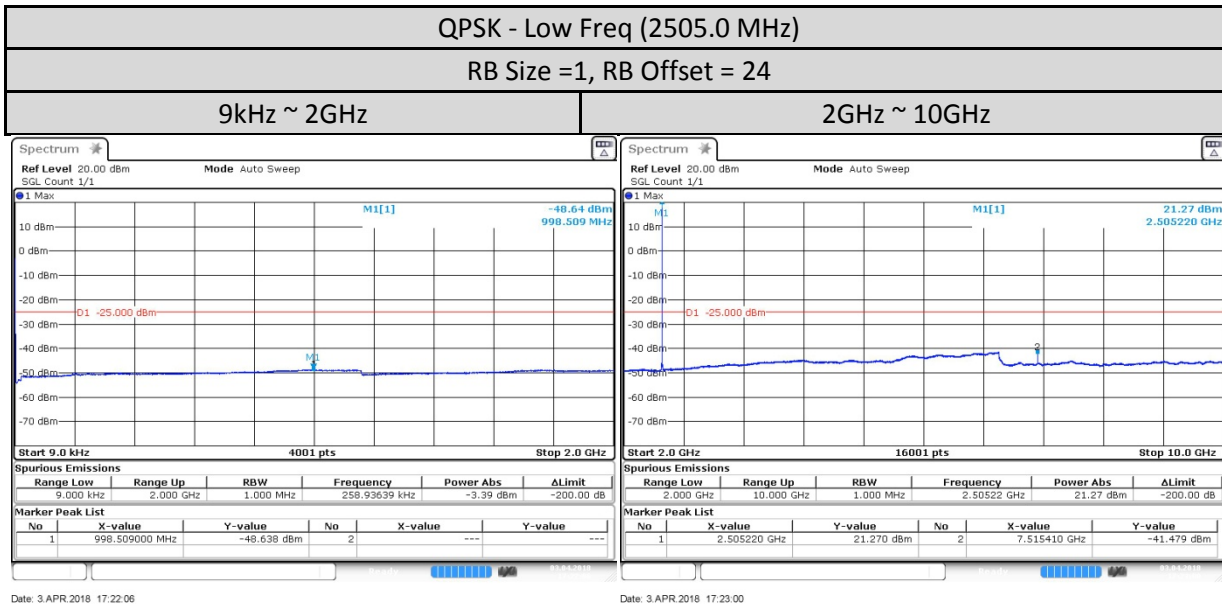


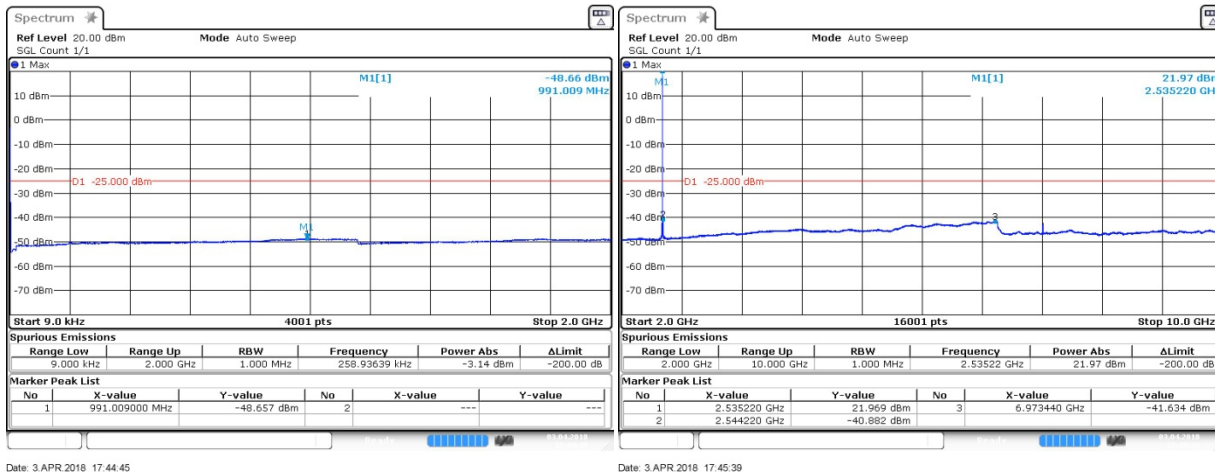
Date: 3 APR 2018 17:00:52

10GHz ~ 20GHz



10MHz

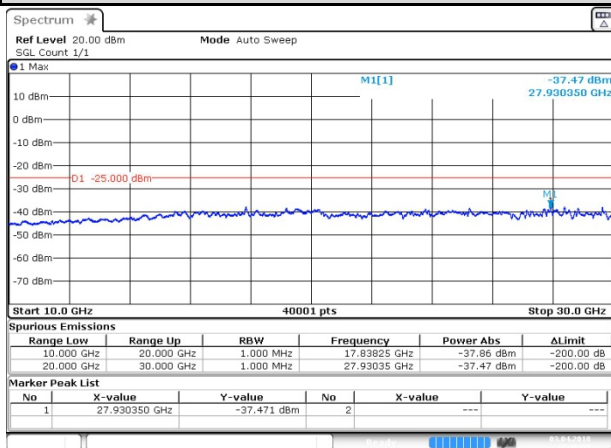




Date: 3 APR 2018 17:44:45

Date: 3 APR 2018 17:45:39

10GHz ~ 20GHz

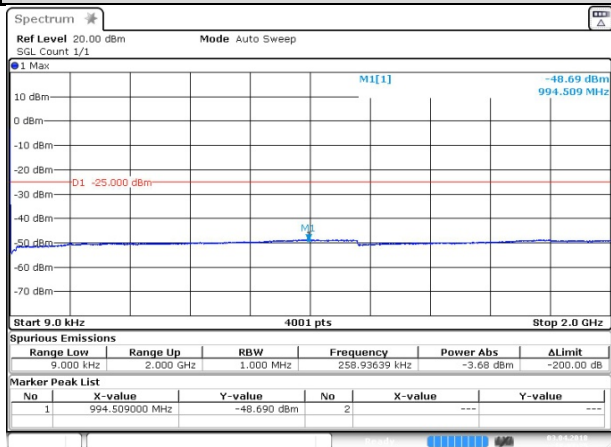


Date: 3 APR 2018 17:46:58

QPSK - High Freq (2565.0 MHz)

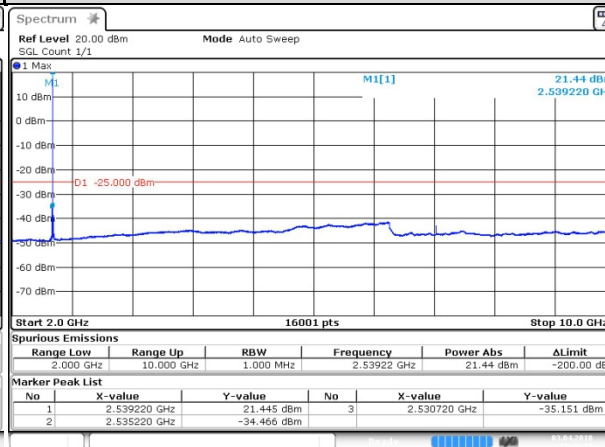
RB Size =1, RB Offset = 24

9kHz ~ 2GHz

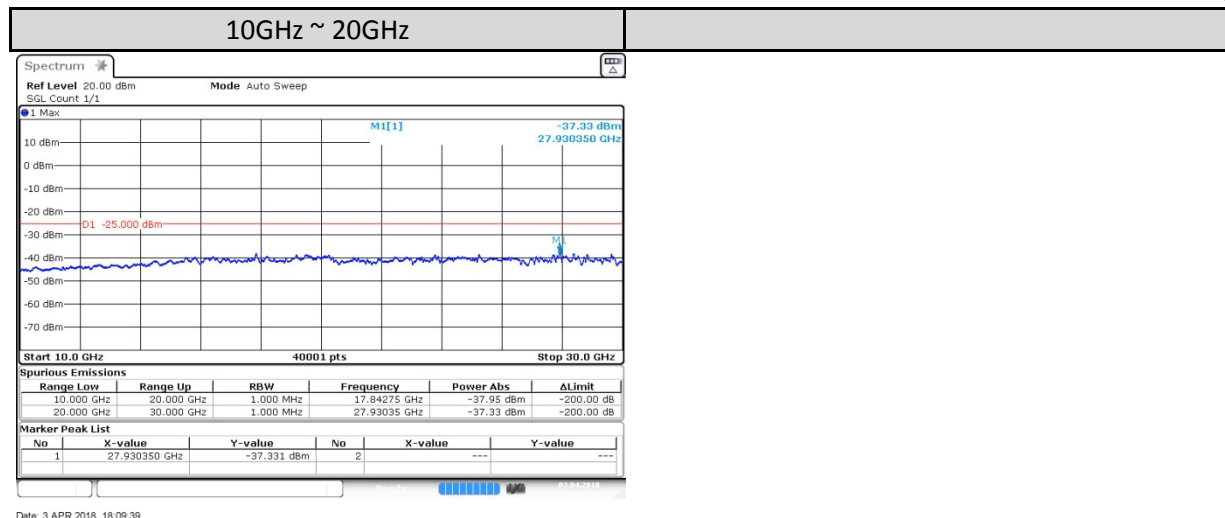


Date: 3 APR 2018 16:07:25

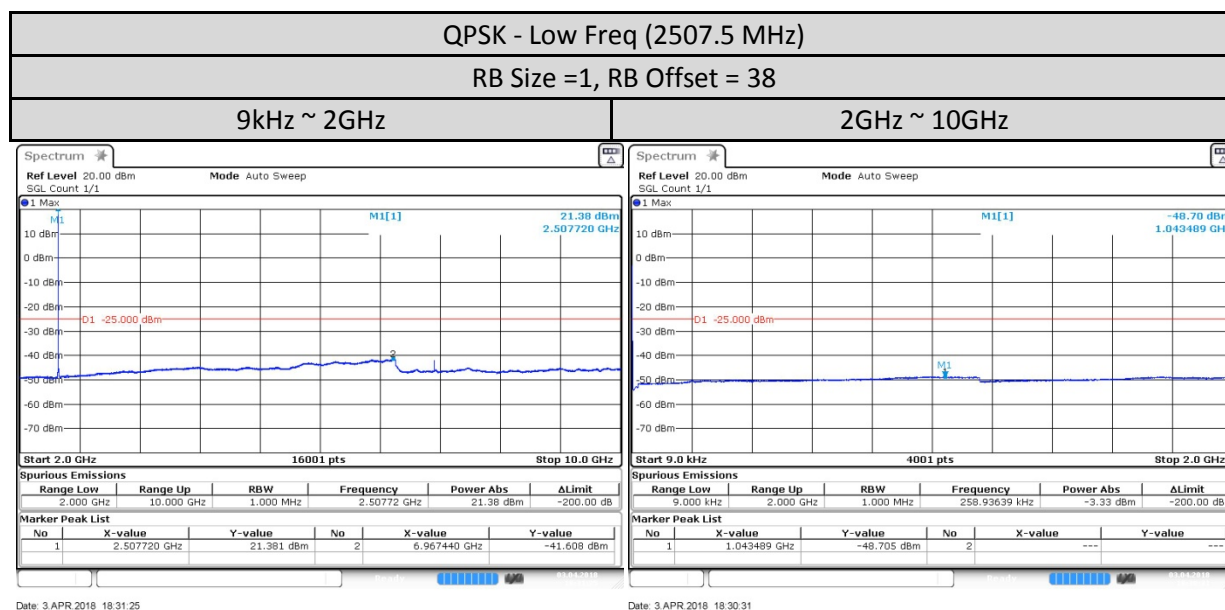
2GHz ~ 10GHz

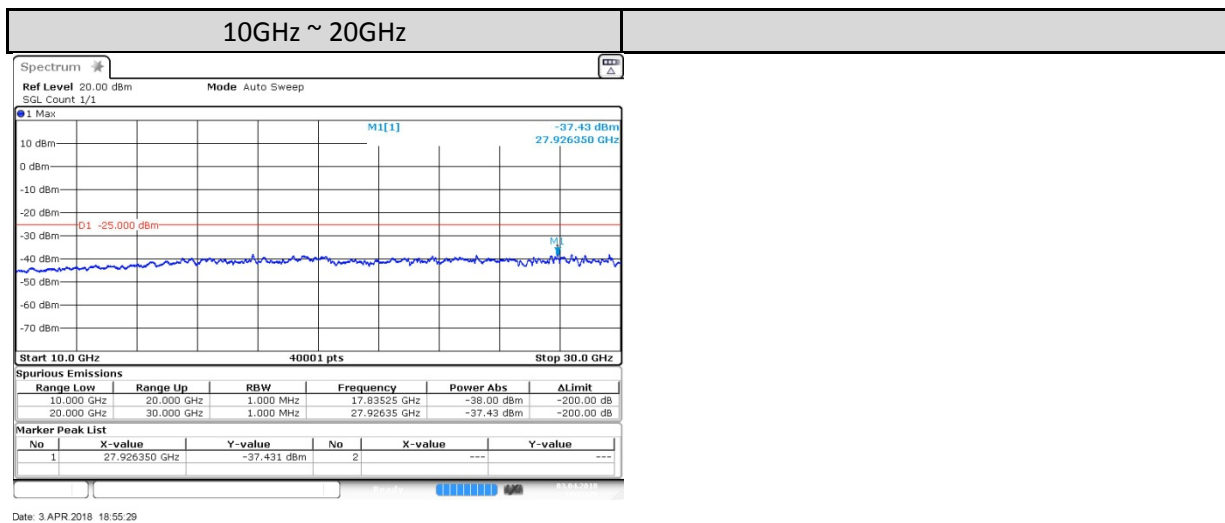
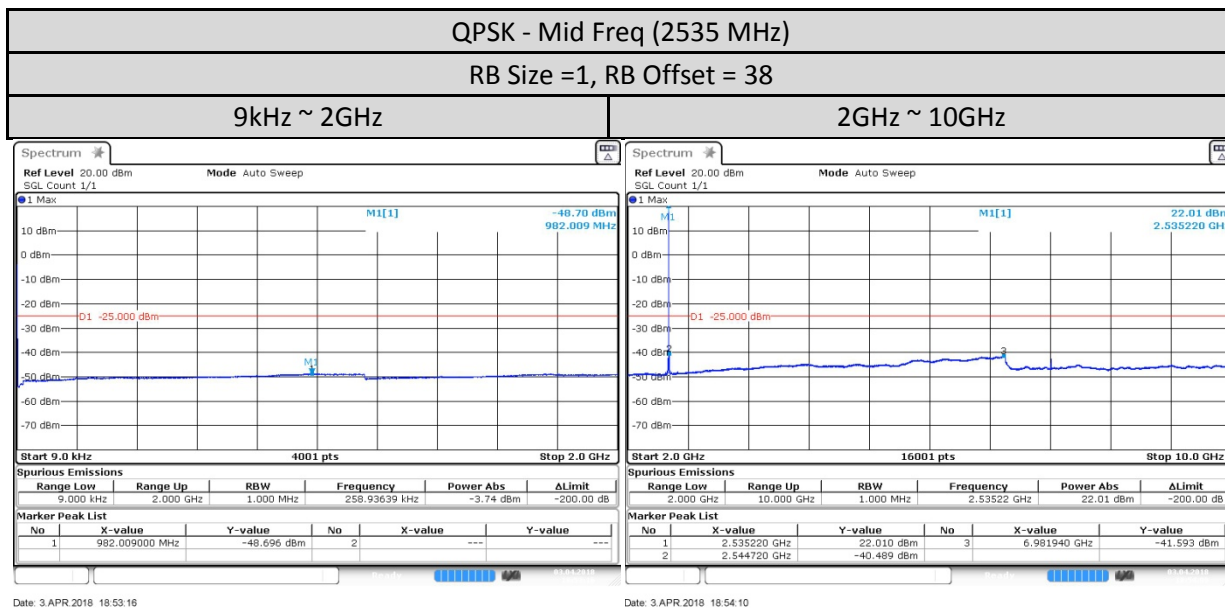
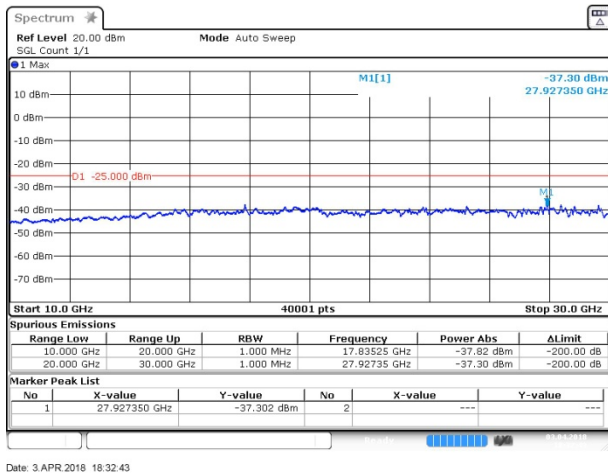


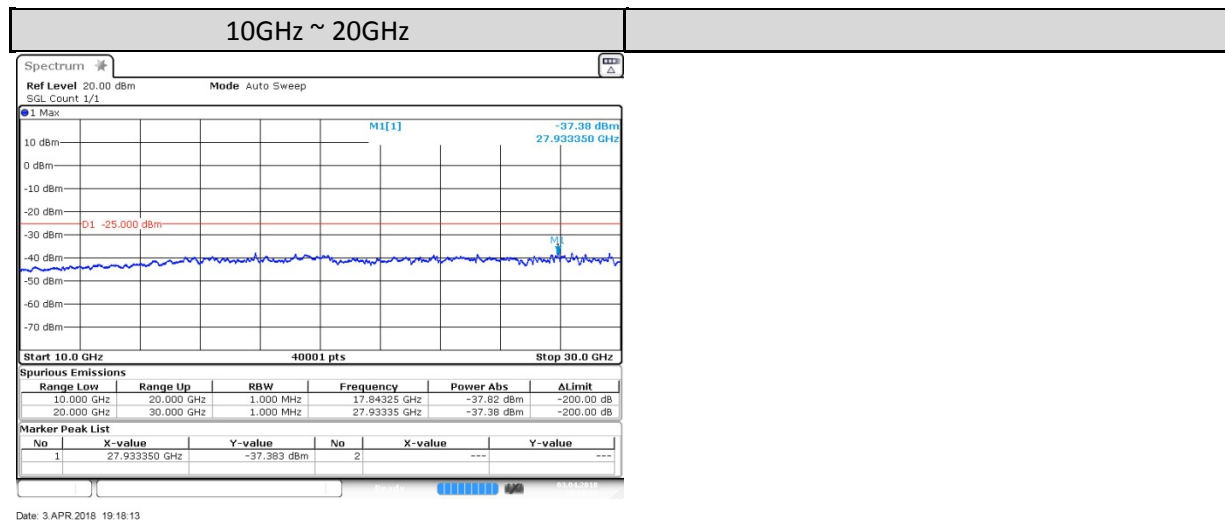
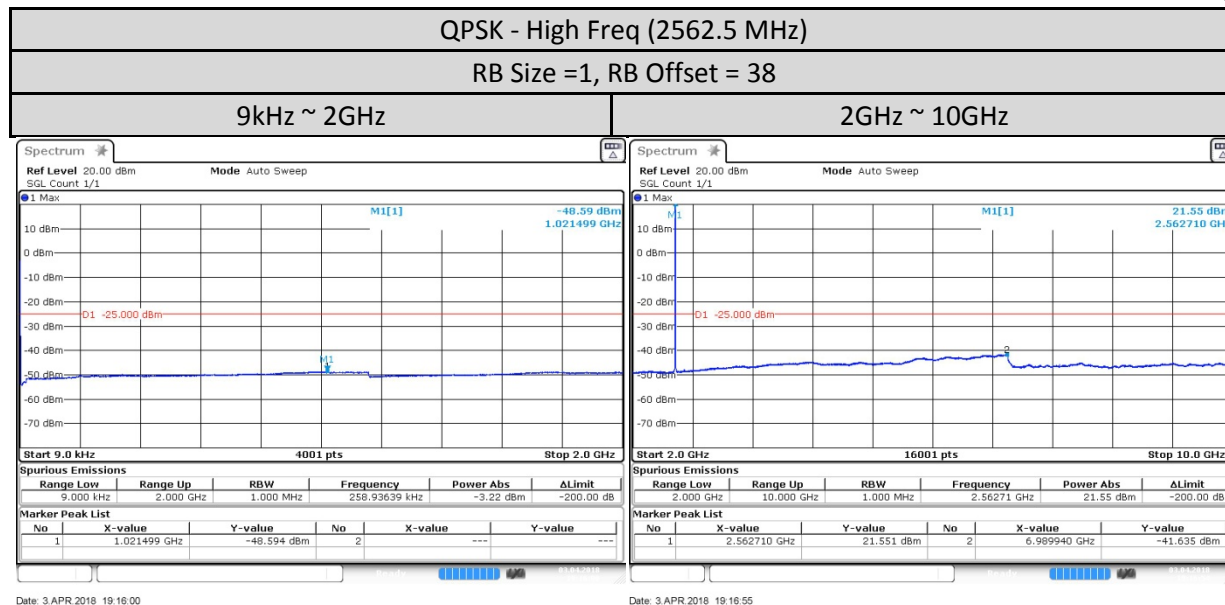
Date: 3 APR 2018 17:48:27



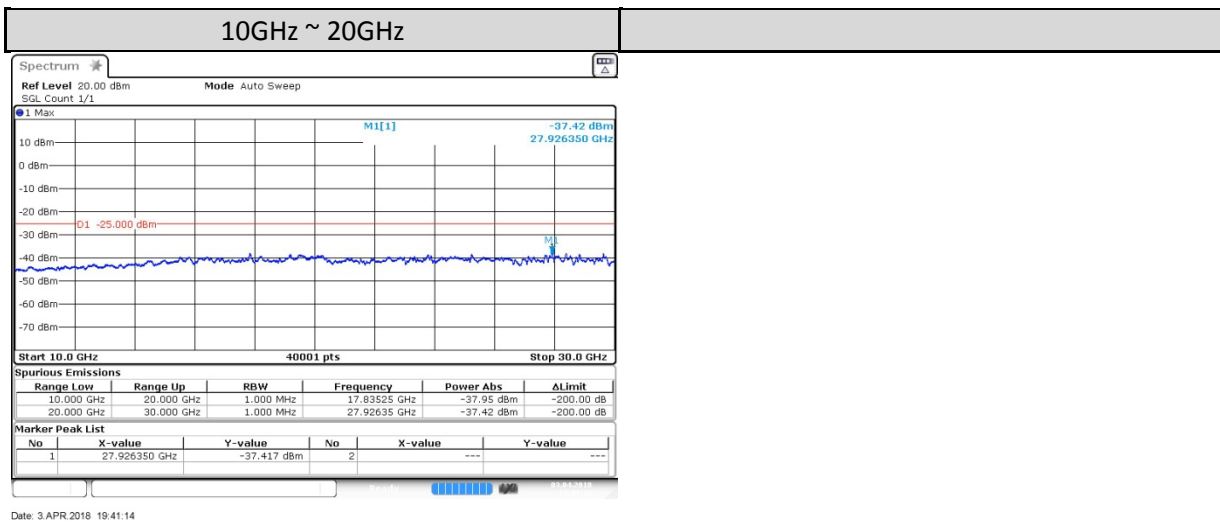
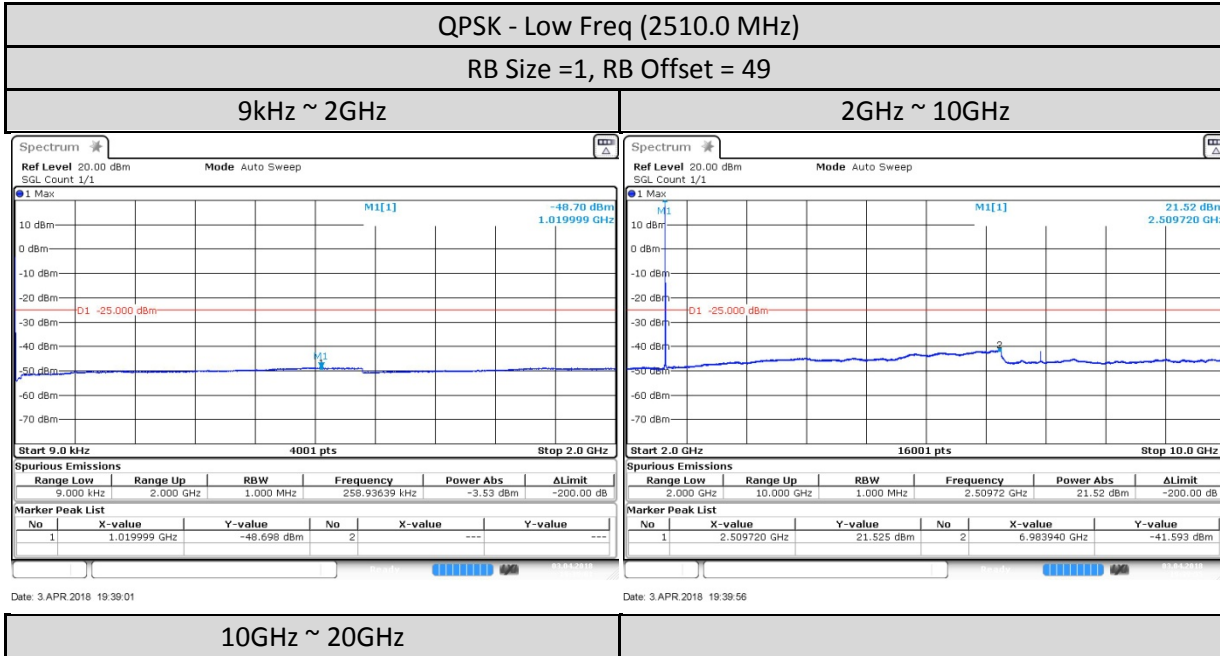
15MHz

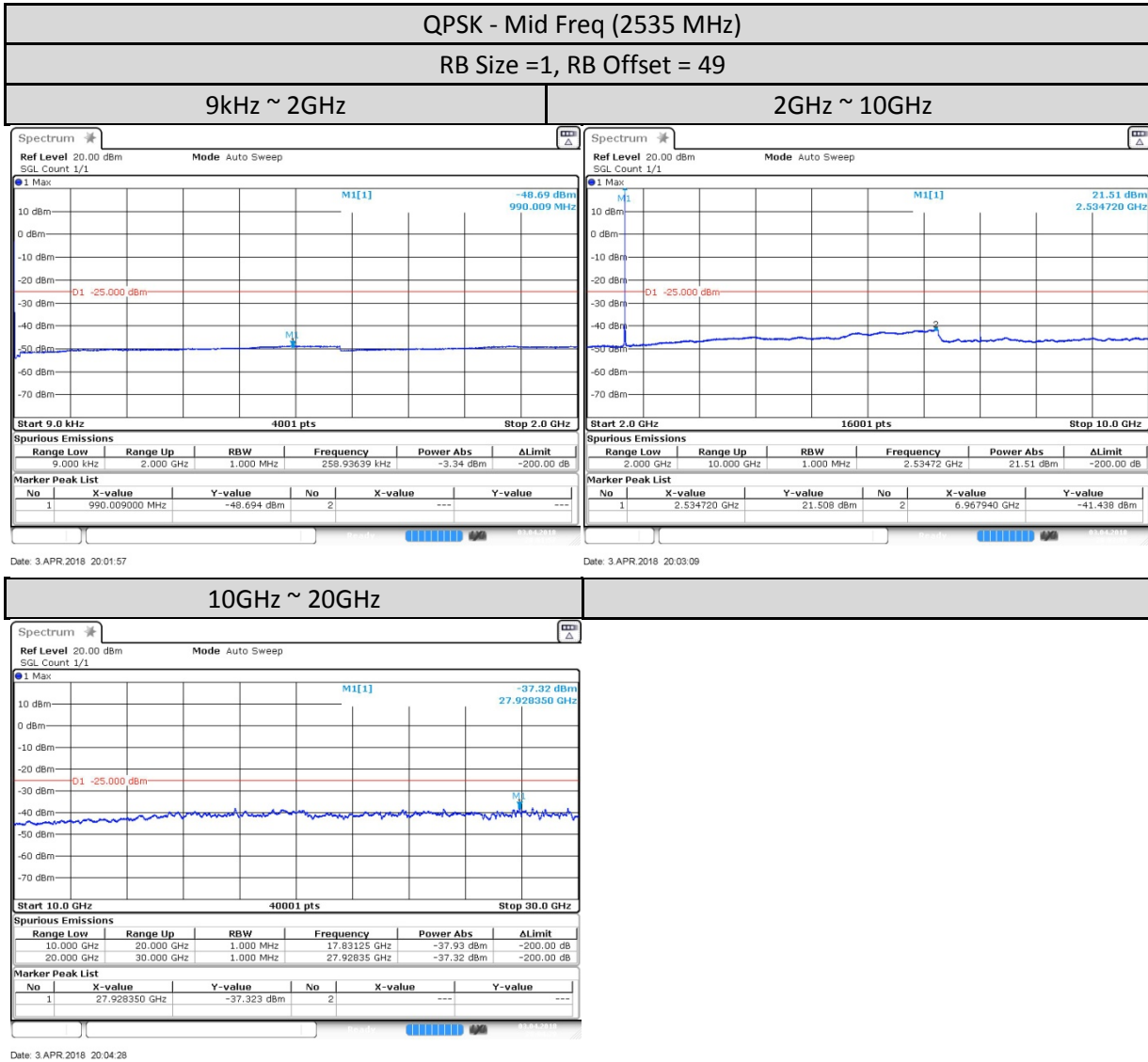


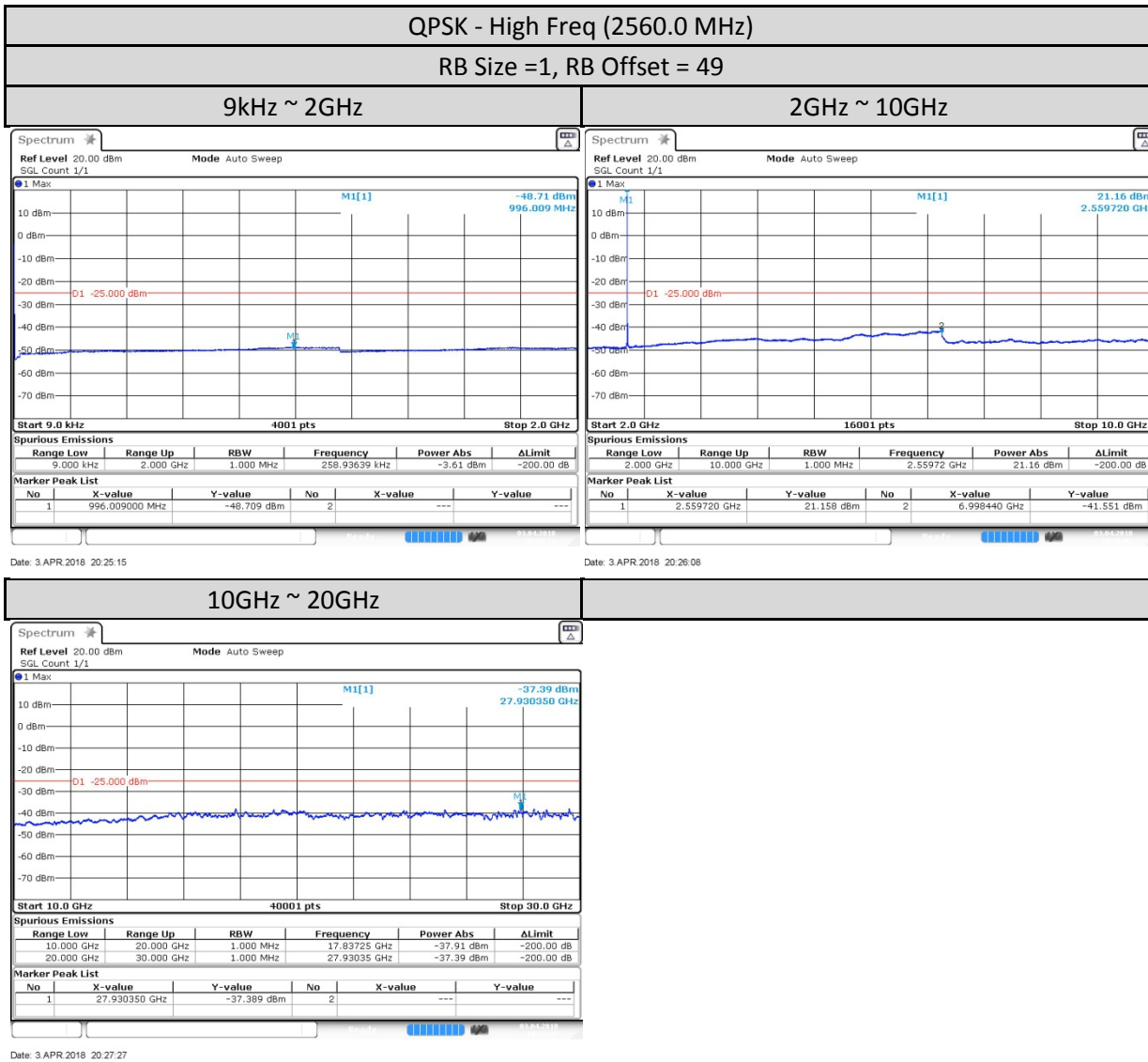




20MHz

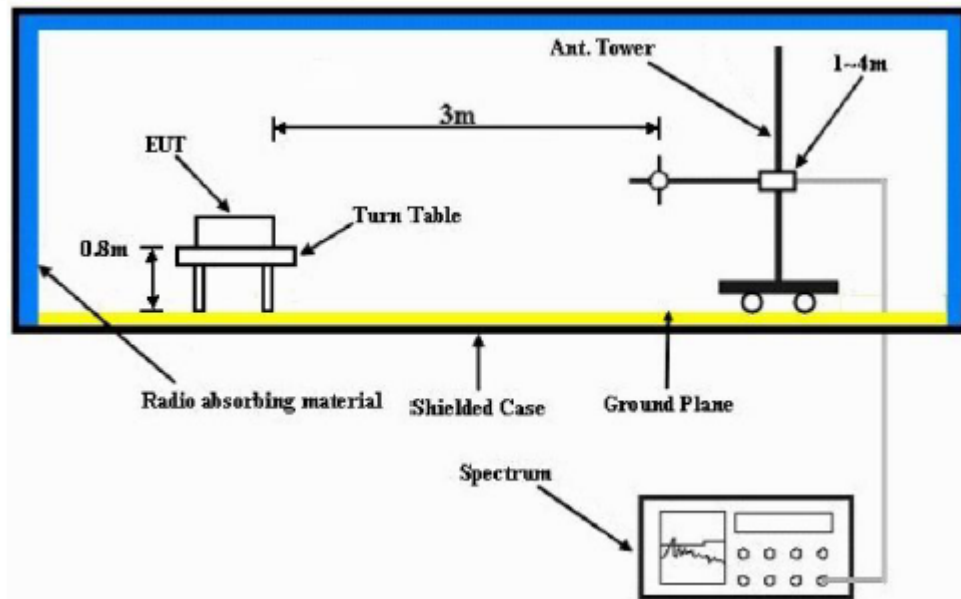






1.12. Radiated Spurious Emission

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 mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the *channel* edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

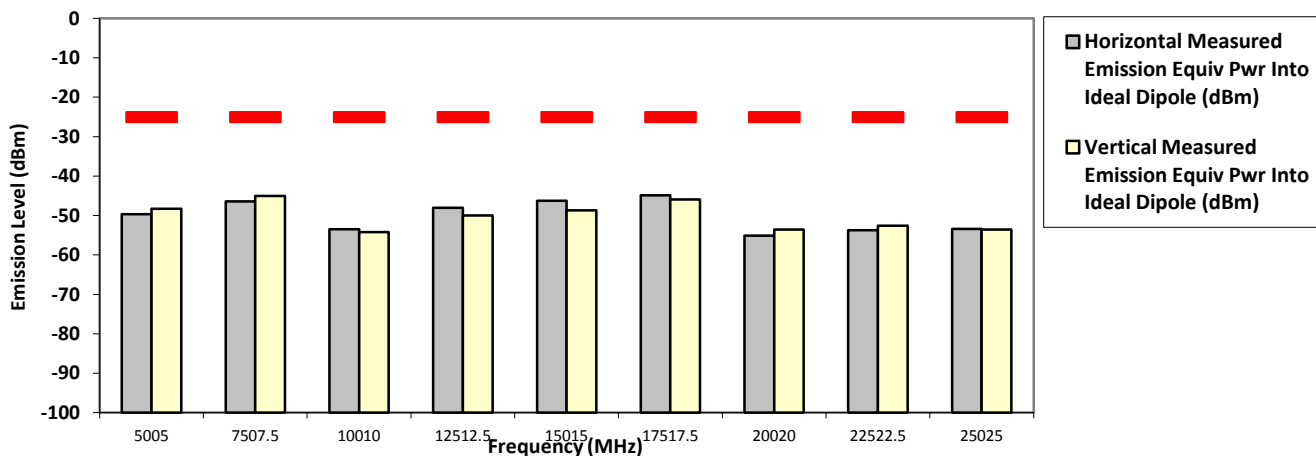
1.12.3. Radiated Spurious Emission – LTE Band 7 (2500 - 2570MHz)

DC configuration: Link Mode 12V

Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
Test Mode: TX LTE (Band 7)
2502.500000 MHz (Low) Bandwidth 5MHz 0.224 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)
5005.0000	-25.0000	-49.6638 **	-48.2896 **
7507.5000	-25.0000	-46.3944 **	-45.0307 **
10010.0000	-25.0000	-53.4392 **	-54.1879 **
12512.5000	-25.0000	-48.0448 **	-49.9489 **
15015.0000	-25.0000	-46.2121 **	-48.7109 **
17517.5000	-25.0000	-44.8833 **	-45.8879 **
20020.0000	-25.0000	-55.1113 **	-53.5156 **
22522.5000	-25.0000	-53.6803 **	-52.5666 **
25025.0000	-25.0000	-53.4051 **	-53.5434 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

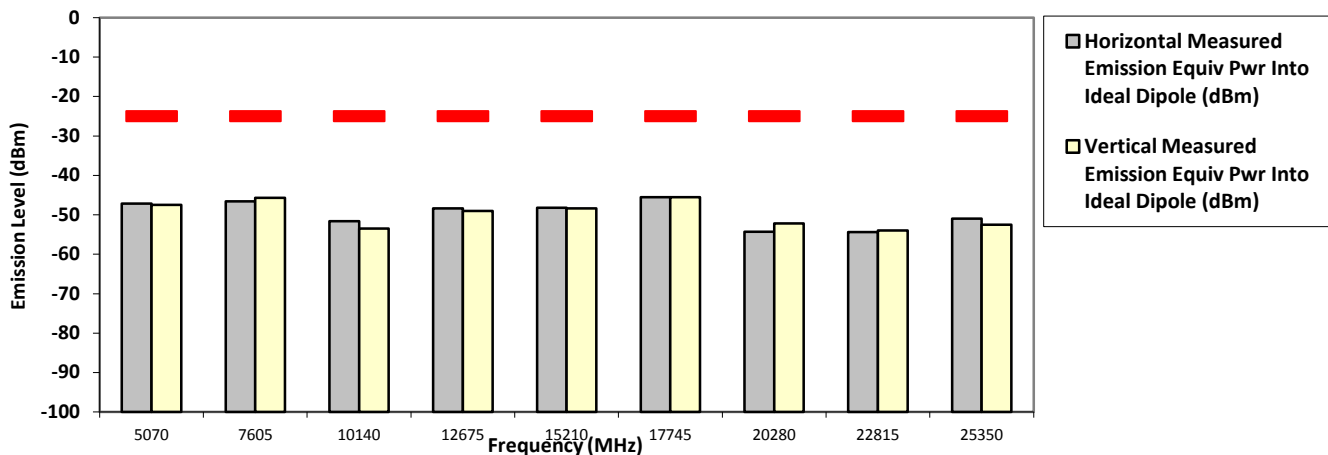
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2535.000000 MHz (Mid) Bandwidth 5MHz 0.224 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)
5070.0000	-25.0000	-47.1585 **	-47.4848 **
7605.0000	-25.0000	-46.5470 **	-45.6749 **
10140.0000	-25.0000	-51.5711 **	-53.4437 **
12675.0000	-25.0000	-48.3614 **	-49.0314 **
15210.0000	-25.0000	-48.2324 **	-48.3974 **
17745.0000	-25.0000	-45.4982 **	-45.5445 **
20280.0000	-25.0000	-54.3208 **	-52.1919 **
22815.0000	-25.0000	-54.3811 **	-53.9578 **
25350.0000	-25.0000	-50.9531 **	-52.5029 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

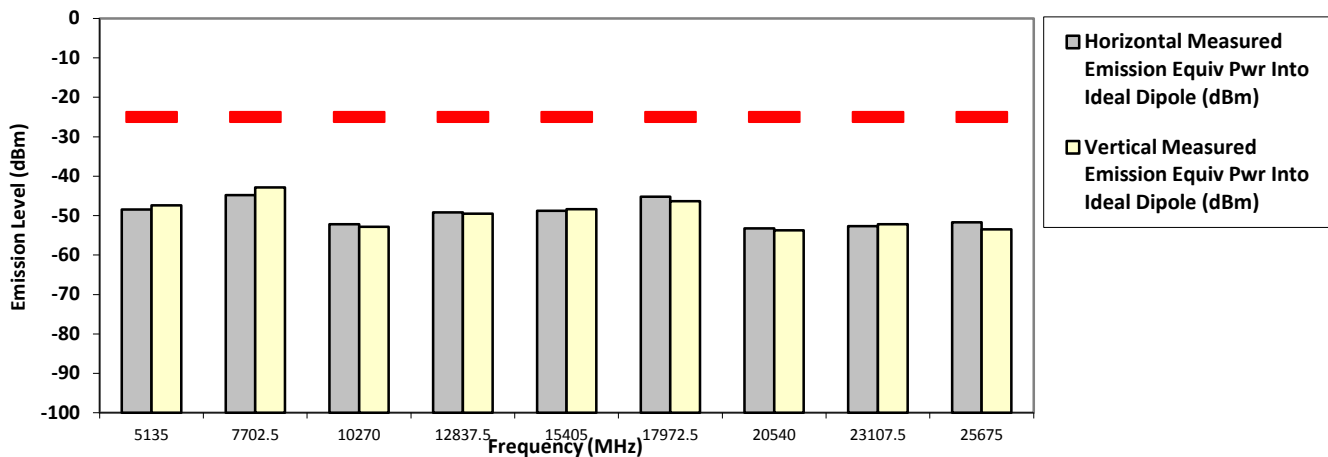
System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2567.500000 MHz (High) Bandwidth 5MHz 0.224 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)
5135.0000	-25.0000	-48.4633 **	-47.4010 **
7702.5000	-25.0000	-44.7836 **	-42.8564 **
10270.0000	-25.0000	-52.1430 **	-52.8070 **
12837.5000	-25.0000	-49.1841 **	-49.4697 **
15405.0000	-25.0000	-48.7676 **	-48.3689 **
17972.5000	-25.0000	-45.1942 **	-46.3433 **
20540.0000	-25.0000	-53.2119 **	-53.7051 **
23107.5000	-25.0000	-52.6643 **	-52.2055 **
25675.0000	-25.0000	-51.6947 **	-53.4615 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

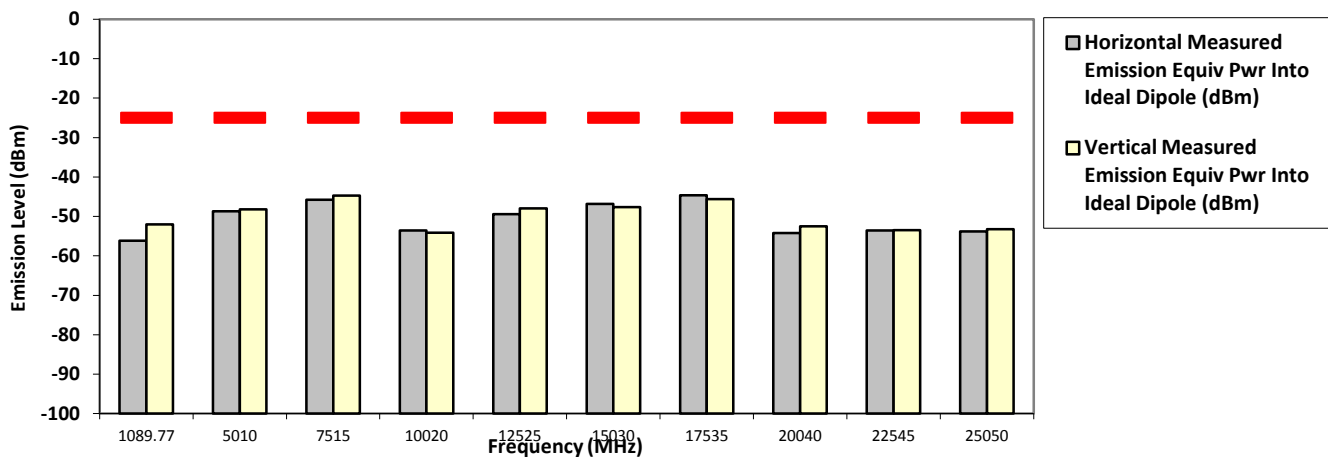
Remarks:

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

Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2505.000000 MHz (Low) Bandwidth 10MHz 0.224 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)
1089.7700	-25.0000	-56.1800 *	-52.0100 *
5010.0000	-25.0000	-48.6494 **	-48.1724 **
7515.0000	-25.0000	-45.7671 **	-44.6757 **
10020.0000	-25.0000	-53.5690 **	-54.1367 **
12525.0000	-25.0000	-49.4540 **	-47.9481 **
15030.0000	-25.0000	-46.8188 **	-47.6417 **
17535.0000	-25.0000	-44.5918 **	-45.5894 **
20040.0000	-25.0000	-54.1914 **	-52.5368 **
22545.0000	-25.0000	-53.5129 **	-53.5065 **
25050.0000	-25.0000	-53.7859 **	-53.2341 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

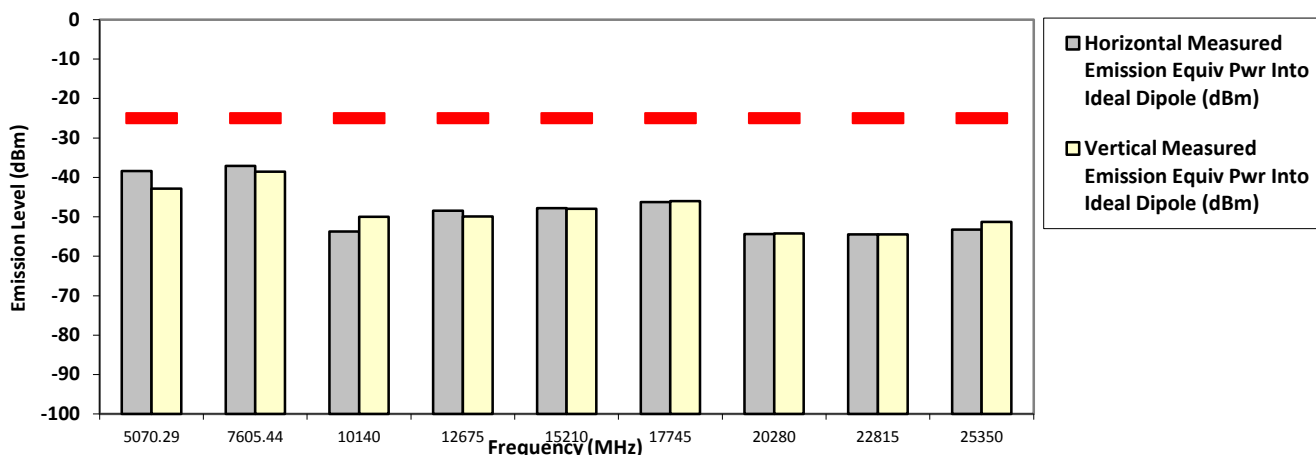
Remarks:

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

Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2535.000000 MHz (Mid) Bandwidth 10MHz 0.224 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)
5070.2900	-25.0000	-38.3800	-42.8500
7605.4400	-25.0000	-37.0700	-38.5300
10140.0000	-25.0000	-53.7003 **	-49.9811 **
12675.0000	-25.0000	-48.4039 **	-49.9212 **
15210.0000	-25.0000	-47.8064 **	-47.9641 **
17745.0000	-25.0000	-46.2421 **	-45.9915 **
20280.0000	-25.0000	-54.3788 **	-54.2363 **
22815.0000	-25.0000	-54.4570 **	-54.4766 **
25350.0000	-25.0000	-53.2325 **	-51.3047 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

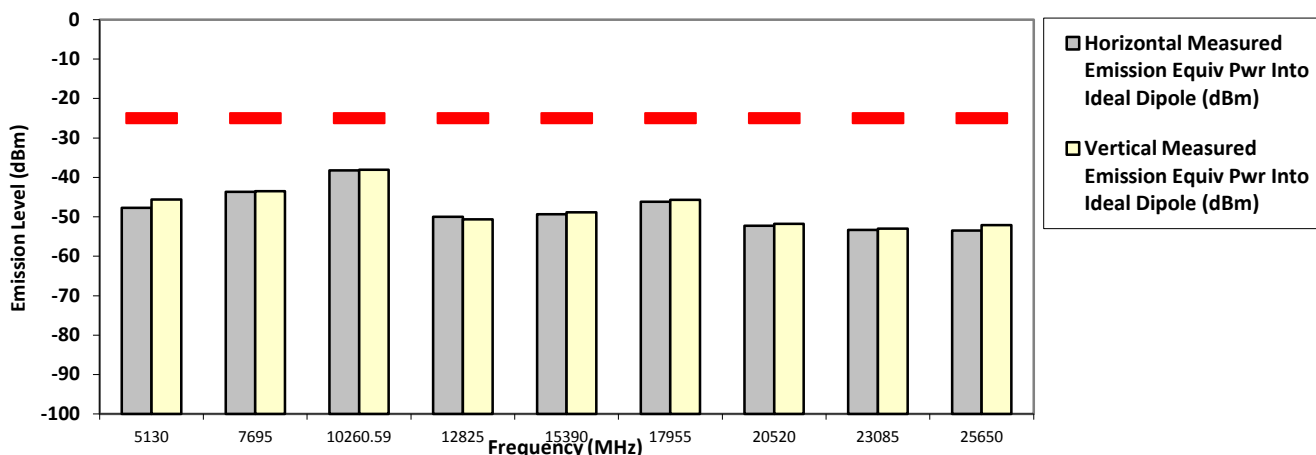
Remarks:

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

Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2565.000000 MHz (High) Bandwidth 10MHz 0.224 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)
5130.0000	-25.0000	-47.6932 **	-45.5612 **
7695.0000	-25.0000	-43.6740 **	-43.4874 **
10260.5900	-25.0000	-38.2400	-38.0300
12825.0000	-25.0000	-49.9839 **	-50.6701 **
15390.0000	-25.0000	-49.3010 **	-48.8067 **
17955.0000	-25.0000	-46.1903 **	-45.7050 **
20520.0000	-25.0000	-52.2320 **	-51.7631 **
23085.0000	-25.0000	-53.3099 **	-52.9487 **
25650.0000	-25.0000	-53.5098 **	-52.1042 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

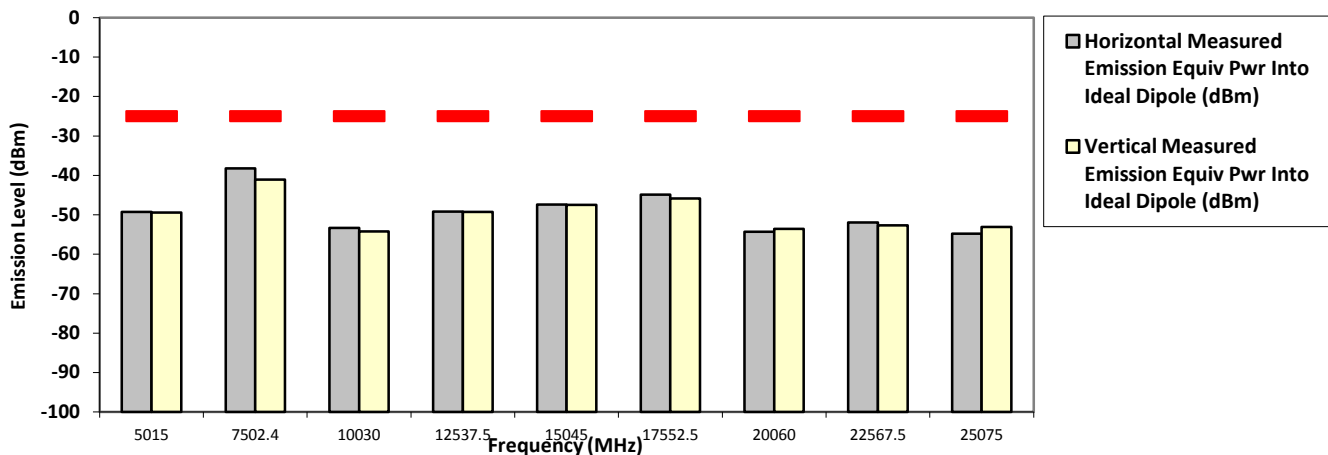
Remarks:

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

Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2507.500000 MHz (Low) Bandwidth 15MHz 0.224 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)
5015.0000	-25.0000	-49.2813 **	-49.4113 **
7502.4000	-25.0000	-38.2200	-41.0300
10030.0000	-25.0000	-53.2829 **	-54.2276 **
12537.5000	-25.0000	-49.1506 **	-49.2363 **
15045.0000	-25.0000	-47.3708 **	-47.4935 **
17552.5000	-25.0000	-44.8316 **	-45.8264 **
20060.0000	-25.0000	-54.2971 **	-53.5812 **
22567.5000	-25.0000	-51.8989 **	-52.6512 **
25075.0000	-25.0000	-54.7503 **	-53.0891 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

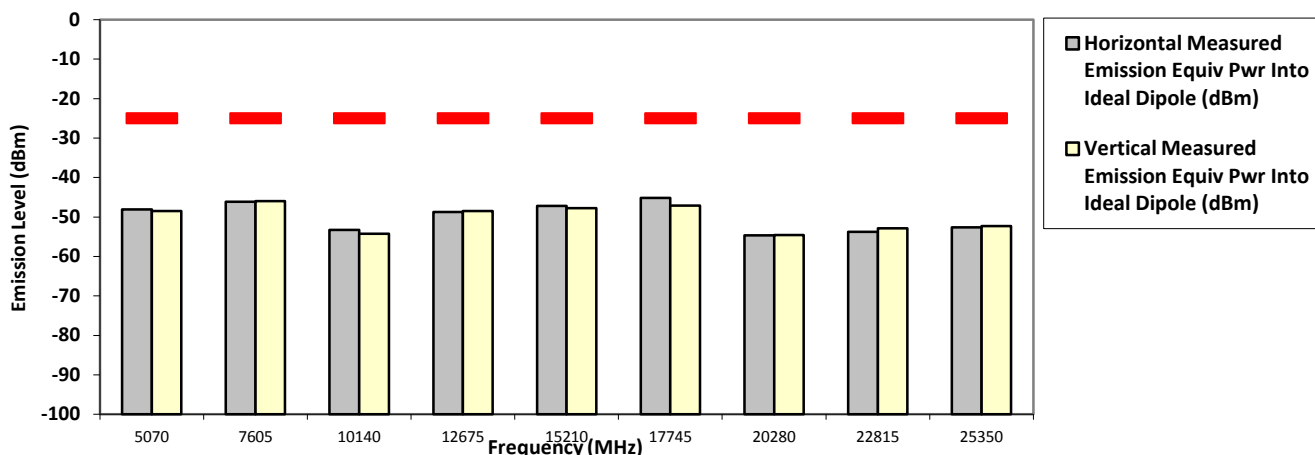
Remarks:

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

Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2535.000000 MHz (Mid) Bandwidth 15MHz 0.224 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)
5070.0000	-25.0000	-48.1215 **	-48.4864 **
7605.0000	-25.0000	-46.1002 **	-45.9645 **
10140.0000	-25.0000	-53.2966 **	-54.2801 **
12675.0000	-25.0000	-48.7098 **	-48.4544 **
15210.0000	-25.0000	-47.2267 **	-47.7394 **
17745.0000	-25.0000	-45.1746 **	-47.0854 **
20280.0000	-25.0000	-54.6872 **	-54.5863 **
22815.0000	-25.0000	-53.7466 **	-52.8958 **
25350.0000	-25.0000	-52.6338 **	-52.2987 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

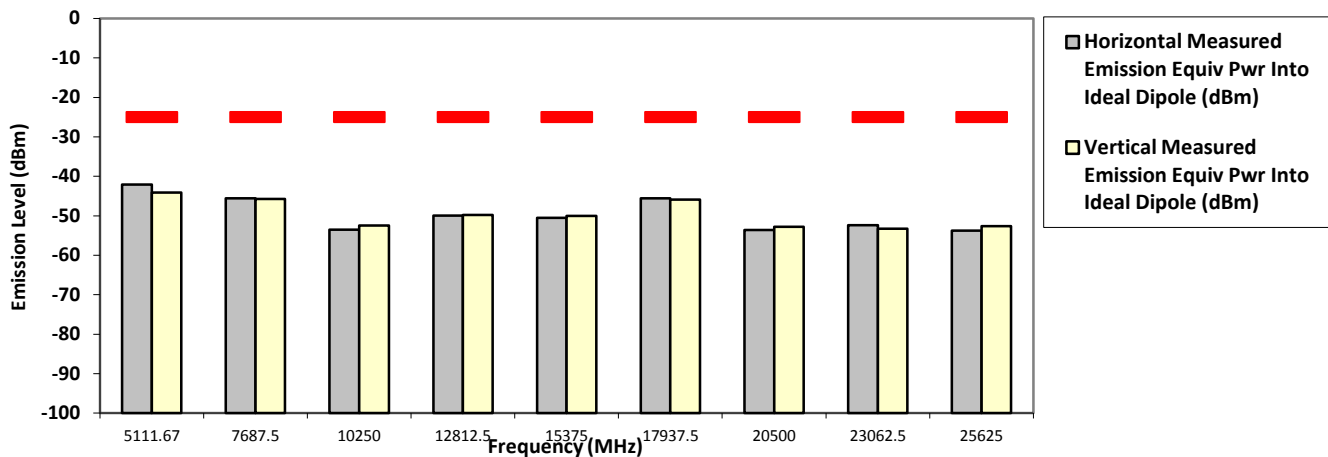
System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2562.500000 MHz (High) Bandwidth 15MHz 0.224 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)
5111.6700	-25.0000	-42.1100	-44.0800
7687.5000	-25.0000	-45.6087 **	-45.7438 **
10250.0000	-25.0000	-53.5402 **	-52.4405 **
12812.5000	-25.0000	-49.9826 **	-49.7466 **
15375.0000	-25.0000	-50.5148 **	-49.9948 **
17937.5000	-25.0000	-45.5670 **	-45.9181 **
20500.0000	-25.0000	-53.6373 **	-52.7996 **
23062.5000	-25.0000	-52.4201 **	-53.2406 **
25625.0000	-25.0000	-53.7743 **	-52.6415 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

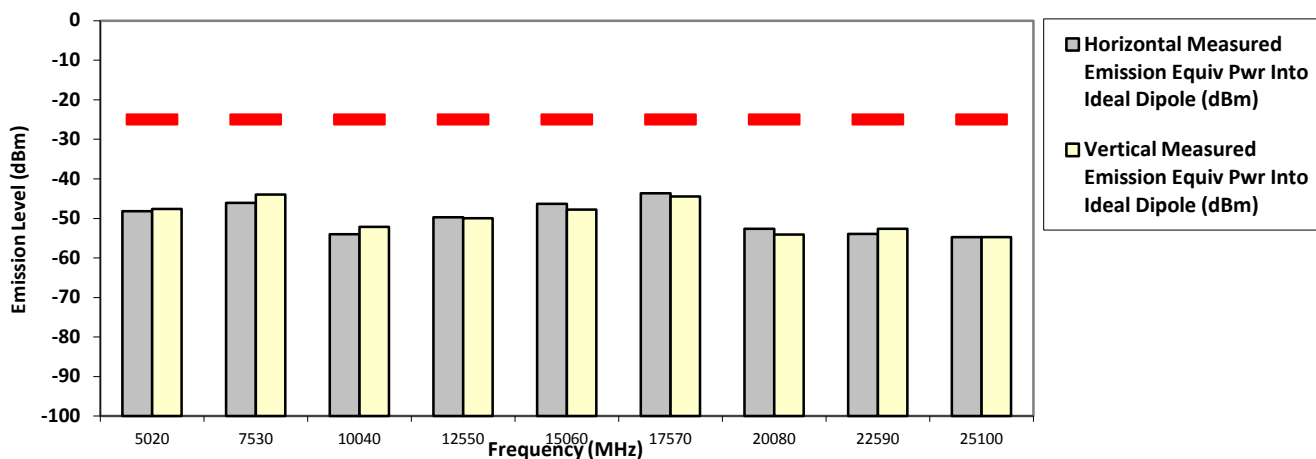
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
Test Mode: TX LTE (Band 7)
2510.000000 MHz (Low) Bandwidth 20MHz 0.224 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)
5020.0000	-25.0000	-48.1896 **	-47.6048 **
7530.0000	-25.0000	-46.0388 **	-43.9512 **
10040.0000	-25.0000	-54.0100 **	-52.1381 **
12550.0000	-25.0000	-49.7413 **	-49.9696 **
15060.0000	-25.0000	-46.2869 **	-47.7666 **
17570.0000	-25.0000	-43.6251 **	-44.4801 **
20080.0000	-25.0000	-52.6623 **	-54.0962 **
22590.0000	-25.0000	-53.9517 **	-52.6431 **
25100.0000	-25.0000	-54.7492 **	-54.7686 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

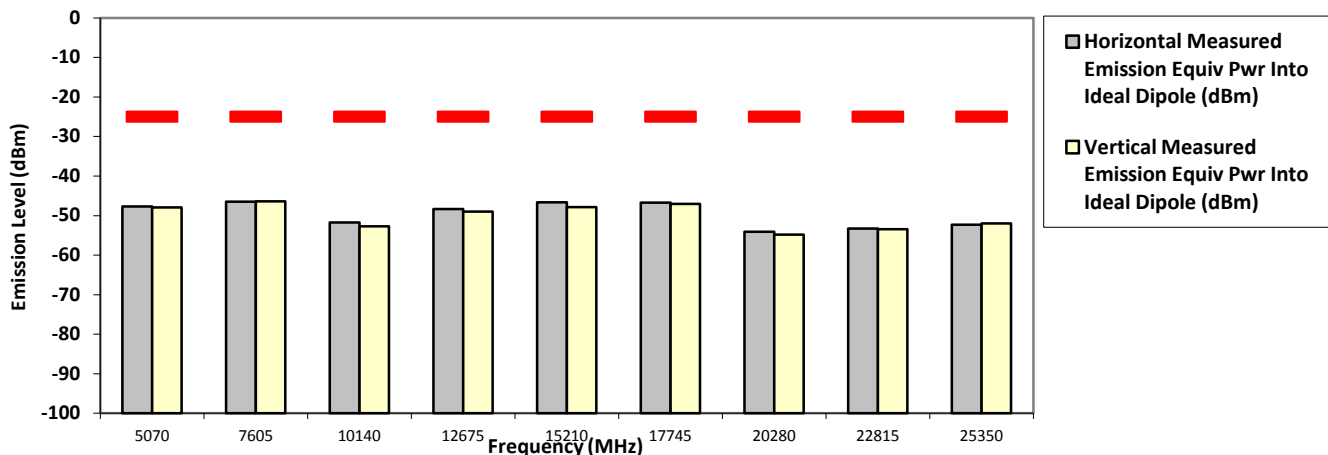
System MU: 5.01 dB

Remarks:	Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2535.000000 MHz (Mid) Bandwidth 20MHz 0.224 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)
5070.0000	-25.0000	-47.6565 **	-47.8922 **
7605.0000	-25.0000	-46.4937 **	-46.4225 **
10140.0000	-25.0000	-51.7691 **	-52.7126 **
12675.0000	-25.0000	-48.3170 **	-48.9577 **
15210.0000	-25.0000	-46.6439 **	-47.8475 **
17745.0000	-25.0000	-46.7139 **	-47.0449 **
20280.0000	-25.0000	-54.0824 **	-54.7715 **
22815.0000	-25.0000	-53.2353 **	-53.4651 **
25350.0000	-25.0000	-52.3393 **	-51.9488 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

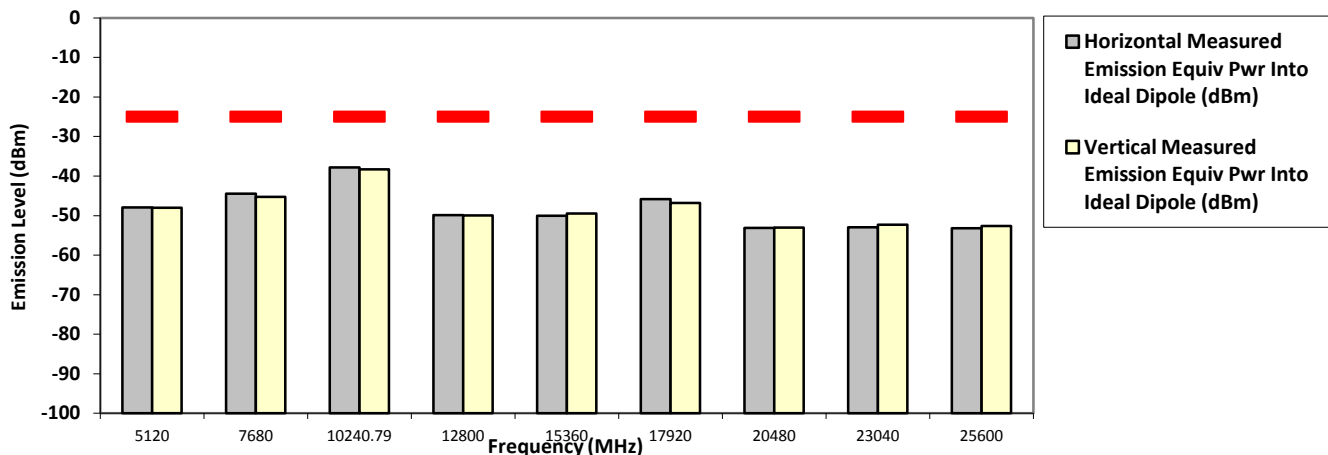
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2560.000000 MHz (High) Bandwidth 20MHz 0.224 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)
5120.0000	-25.0000	-47.9218 **	-48.0461 **
7680.0000	-25.0000	-44.4834 **	-45.2645 **
10240.7900	-25.0000	-37.8400	-38.3300
12800.0000	-25.0000	-49.8435 **	-49.9764 **
15360.0000	-25.0000	-50.0533 **	-49.4986 **
17920.0000	-25.0000	-45.8159 **	-46.8059 **
20480.0000	-25.0000	-53.1129 **	-52.9929 **
23040.0000	-25.0000	-52.9239 **	-52.3046 **
25600.0000	-25.0000	-53.2199 **	-52.6376 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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DC configuration: Link Mode 24V

Model Number: LEX L11n

Link Mode Radiated Emission:

S/N: 790TUF0048

SR:08397-EMC-00199

Battery Part No: PMNN4546A

Accy Part No: 8397-PMLN7779A-5

Test Mode: TX LTE (Band 7)

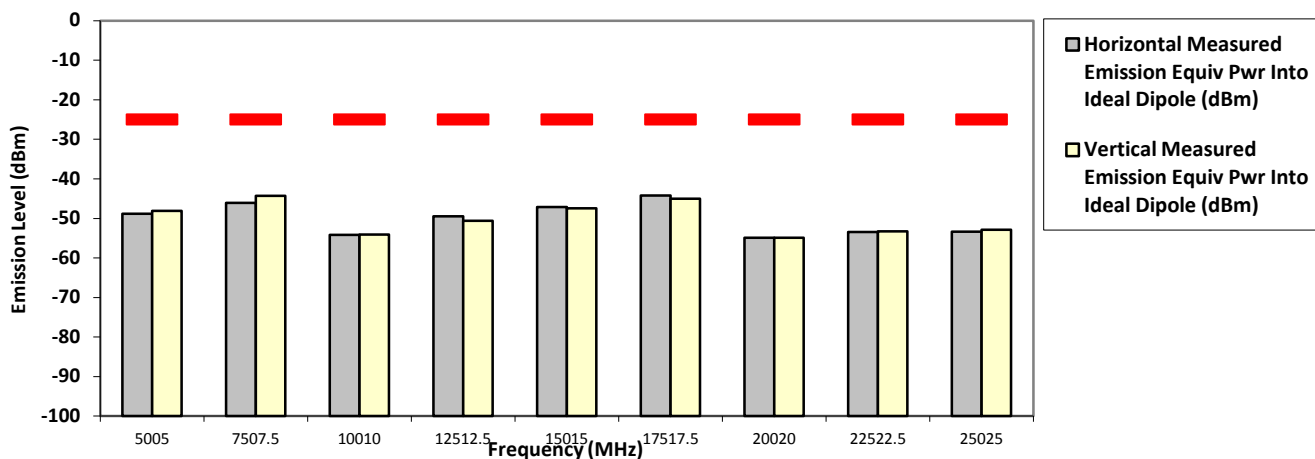
2502.500000 MHz (Low)

Bandwidth 5MHz

0.224 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)
5005.0000	-25.0000	-48.8486 **	-48.1073 **
7507.5000	-25.0000	-46.0431 **	-44.2870 **
10010.0000	-25.0000	-54.1686 **	-54.0838 **
12512.5000	-25.0000	-49.4922 **	-50.6008 **
15015.0000	-25.0000	-47.0854 **	-47.4332 **
17517.5000	-25.0000	-44.2011 **	-44.9897 **
20020.0000	-25.0000	-54.8889 **	-54.8498 **
22522.5000	-25.0000	-53.4204 **	-53.3016 **
25025.0000	-25.0000	-53.3143 **	-52.8271 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

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

Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

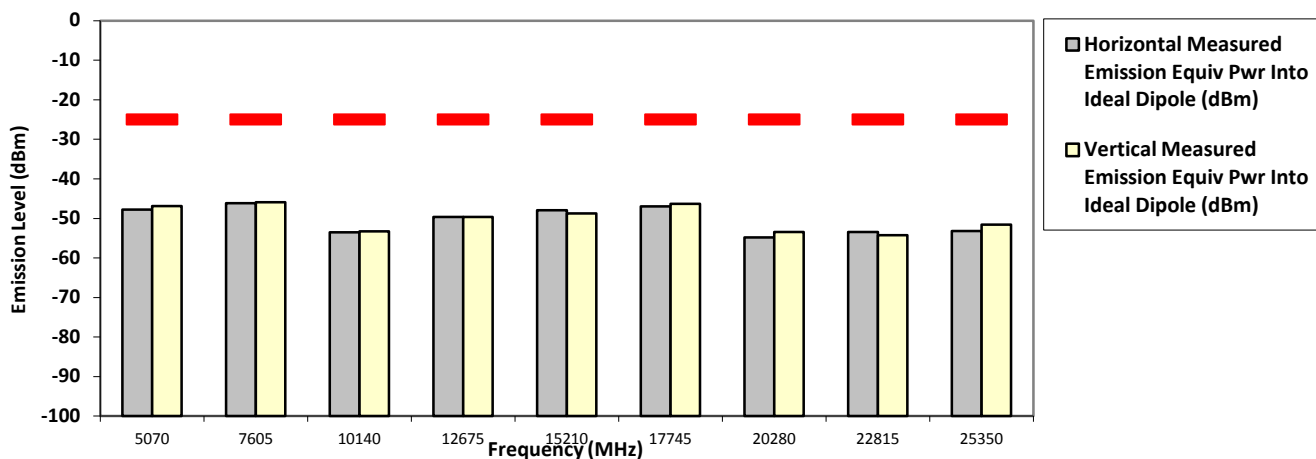
Remarks:

Passed Results	Marginal Results	Failed Results
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Link Mode Radiated Emission:
 Model Number: LEX L11n S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2535.000000 MHz (Mid) Bandwidth 5MHz 0.224 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)
5070.0000	-25.0000	-47.7964 **	-46.8674 **
7605.0000	-25.0000	-46.1492 **	-45.9486 **
10140.0000	-25.0000	-53.5538 **	-53.2907 **
12675.0000	-25.0000	-49.6628 **	-49.5911 **
15210.0000	-25.0000	-47.9283 **	-48.7736 **
17745.0000	-25.0000	-46.9651 **	-46.2864 **
20280.0000	-25.0000	-54.8137 **	-53.4280 **
22815.0000	-25.0000	-53.4711 **	-54.2655 **
25350.0000	-25.0000	-53.1554 **	-51.5734 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

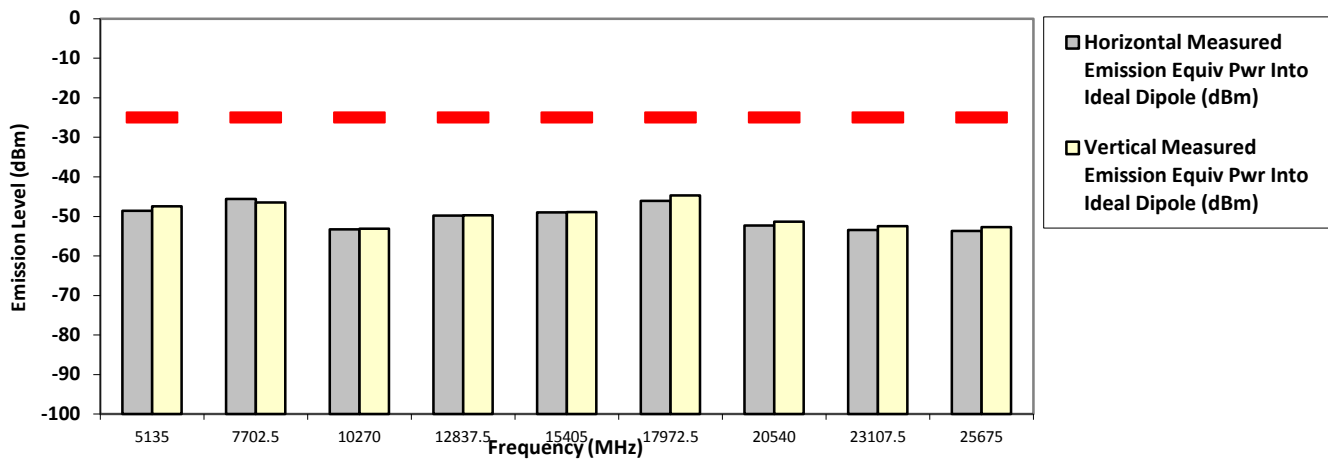
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2567.500000 MHz (High) Bandwidth 5MHz 0.224 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)
5135.0000	-25.0000	-48.5610 **	-47.4153 **
7702.5000	-25.0000	-45.5931 **	-46.4666 **
10270.0000	-25.0000	-53.2733 **	-53.0756 **
12837.5000	-25.0000	-49.7724 **	-49.6928 **
15405.0000	-25.0000	-48.9430 **	-48.9097 **
17972.5000	-25.0000	-46.0310 **	-44.6688 **
20540.0000	-25.0000	-52.2813 **	-51.2932 **
23107.5000	-25.0000	-53.4563 **	-52.5024 **
25675.0000	-25.0000	-53.7044 **	-52.7317 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

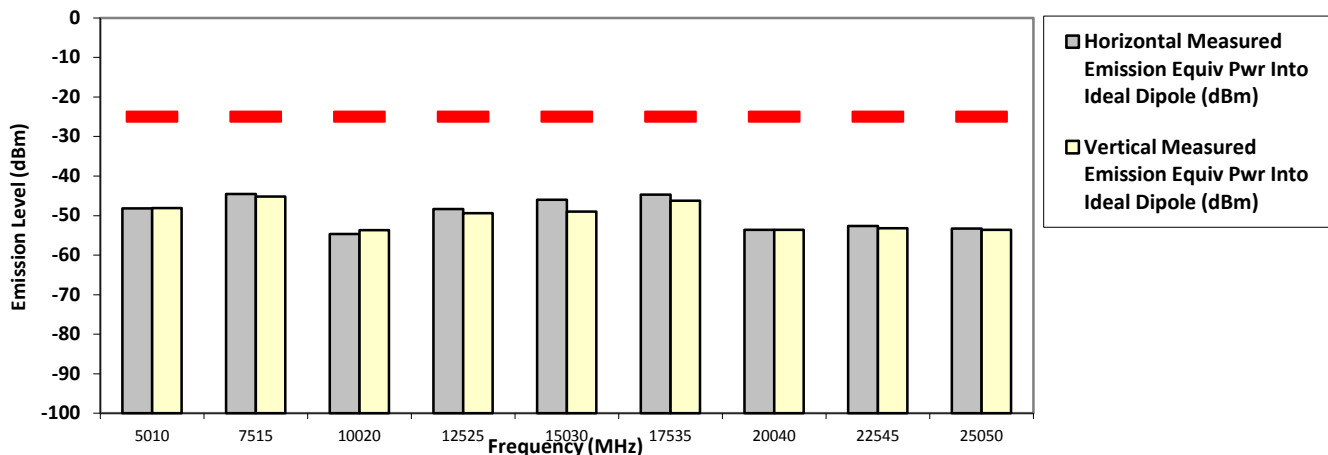
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2505.000000 MHz (Low) Bandwidth 10MHz 0.224 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)
5010.0000	-25.0000	-48.1505 **	-48.0815 **
7515.0000	-25.0000	-44.5658 **	-45.1398 **
10020.0000	-25.0000	-54.6516 **	-53.7063 **
12525.0000	-25.0000	-48.3595 **	-49.4115 **
15030.0000	-25.0000	-46.0007 **	-48.9564 **
17535.0000	-25.0000	-44.6809 **	-46.2462 **
20040.0000	-25.0000	-53.6233 **	-53.5937 **
22545.0000	-25.0000	-52.5848 **	-53.2283 **
25050.0000	-25.0000	-53.2909 **	-53.6093 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

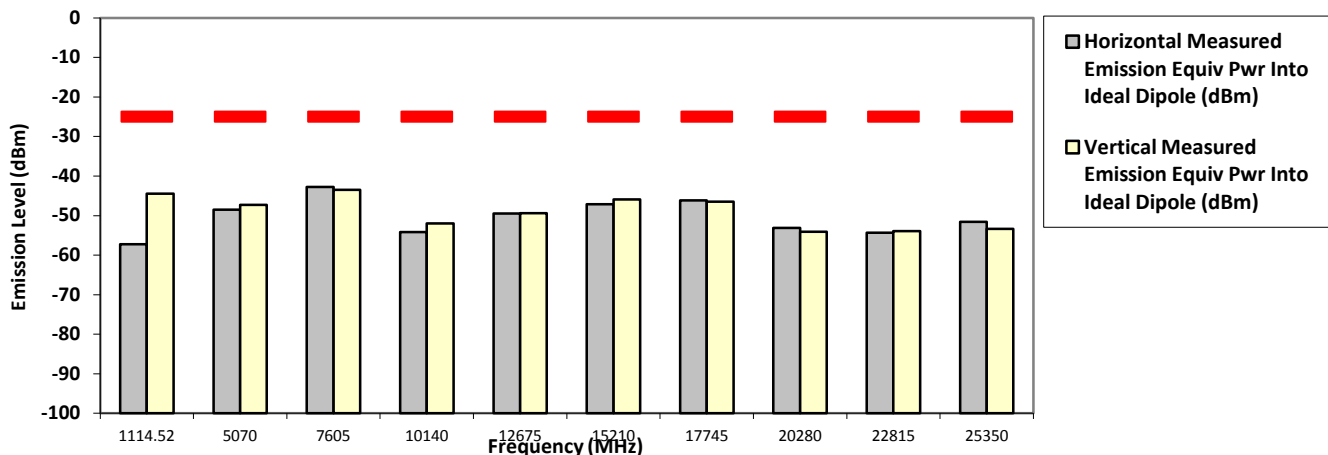
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2535.000000 MHz (Mid) Bandwidth 10MHz 0.224 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)
1114.5200	-25.0000	-57.2300 *	-44.4800
5070.0000	-25.0000	-48.5362 **	-47.2455 **
7605.0000	-25.0000	-42.7891 **	-43.4606 **
10140.0000	-25.0000	-54.1498 **	-51.9657 **
12675.0000	-25.0000	-49.4915 **	-49.3667 **
15210.0000	-25.0000	-47.1313 **	-45.9187 **
17745.0000	-25.0000	-46.1231 **	-46.4376 **
20280.0000	-25.0000	-53.0921 **	-54.0913 **
22815.0000	-25.0000	-54.3411 **	-53.9490 **
25350.0000	-25.0000	-51.6039 **	-53.3510 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

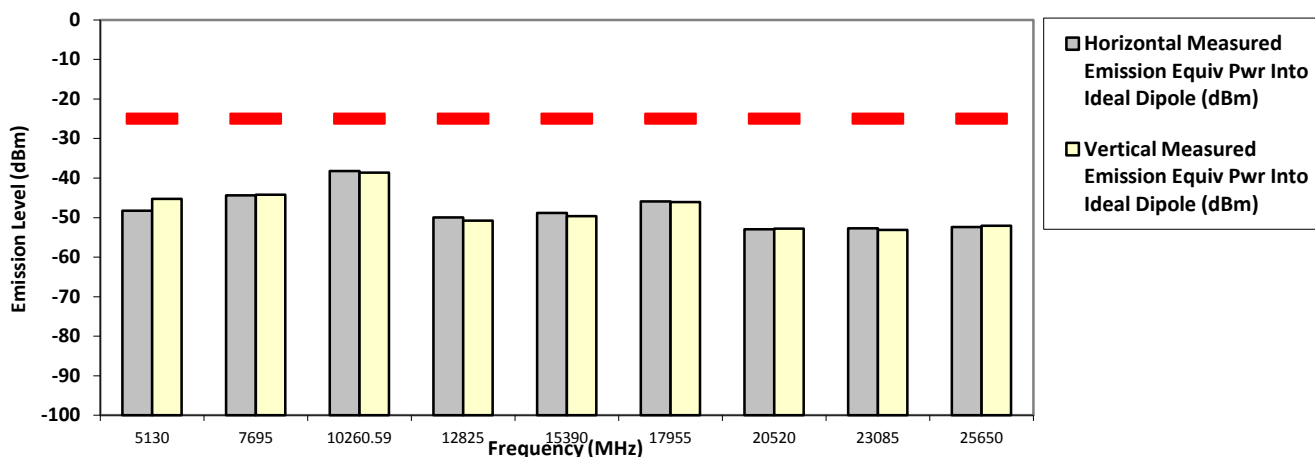
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2565.000000 MHz (High) Bandwidth 10MHz 0.224 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)
5130.0000	-25.0000	-48.2519 **	-45.2218 **
7695.0000	-25.0000	-44.3403 **	-44.2050 **
10260.5900	-25.0000	-38.2600	-38.6200
12825.0000	-25.0000	-49.9801 **	-50.7818 **
15390.0000	-25.0000	-48.8117 **	-49.6209 **
17955.0000	-25.0000	-45.9232 **	-46.0917 **
20520.0000	-25.0000	-52.9399 **	-52.7523 **
23085.0000	-25.0000	-52.7371 **	-53.1346 **
25650.0000	-25.0000	-52.4189 **	-52.0593 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

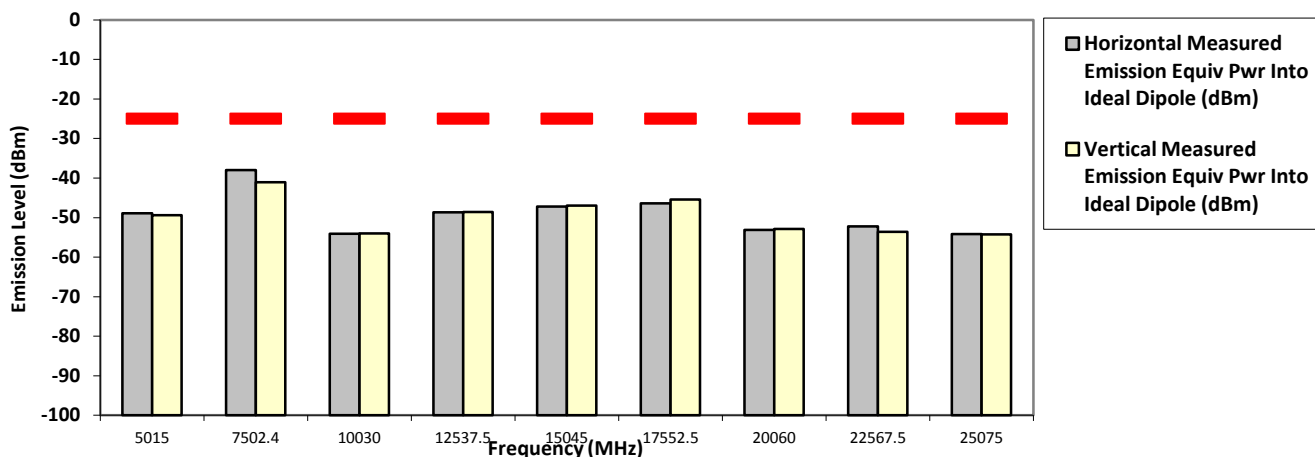
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2507.500000 MHz (Low) Bandwidth 15MHz 0.224 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)
5015.0000	-25.0000	-48.9075 **	-49.4259 **
7502.4000	-25.0000	-37.9700	-41.0200
10030.0000	-25.0000	-54.0717 **	-53.9985 **
12537.5000	-25.0000	-48.6545 **	-48.5408 **
15045.0000	-25.0000	-47.2014 **	-46.9840 **
17552.5000	-25.0000	-46.3925 **	-45.4548 **
20060.0000	-25.0000	-53.1308 **	-52.8703 **
22567.5000	-25.0000	-52.1905 **	-53.5693 **
25075.0000	-25.0000	-54.1532 **	-54.2558 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

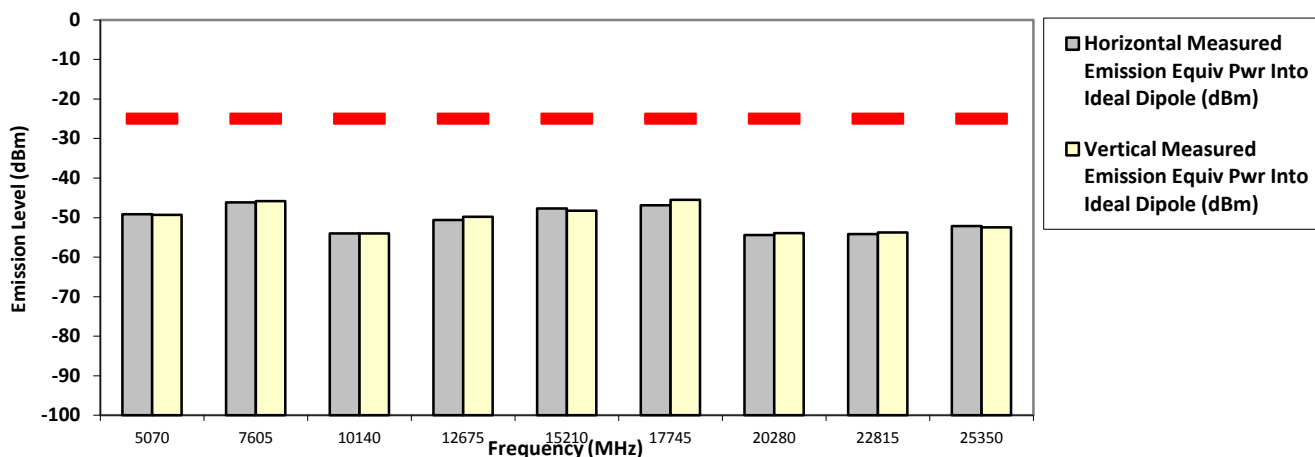
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2535.000000 MHz (Mid) Bandwidth 15MHz 0.224 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)
5070.0000	-25.0000	-49.1444 **	-49.3135 **
7605.0000	-25.0000	-46.1612 **	-45.8627 **
10140.0000	-25.0000	-53.9651 **	-54.0383 **
12675.0000	-25.0000	-50.5685 **	-49.7713 **
15210.0000	-25.0000	-47.7241 **	-48.2328 **
17745.0000	-25.0000	-46.8452 **	-45.4672 **
20280.0000	-25.0000	-54.3709 **	-53.8920 **
22815.0000	-25.0000	-54.1803 **	-53.7616 **
25350.0000	-25.0000	-52.1162 **	-52.4285 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

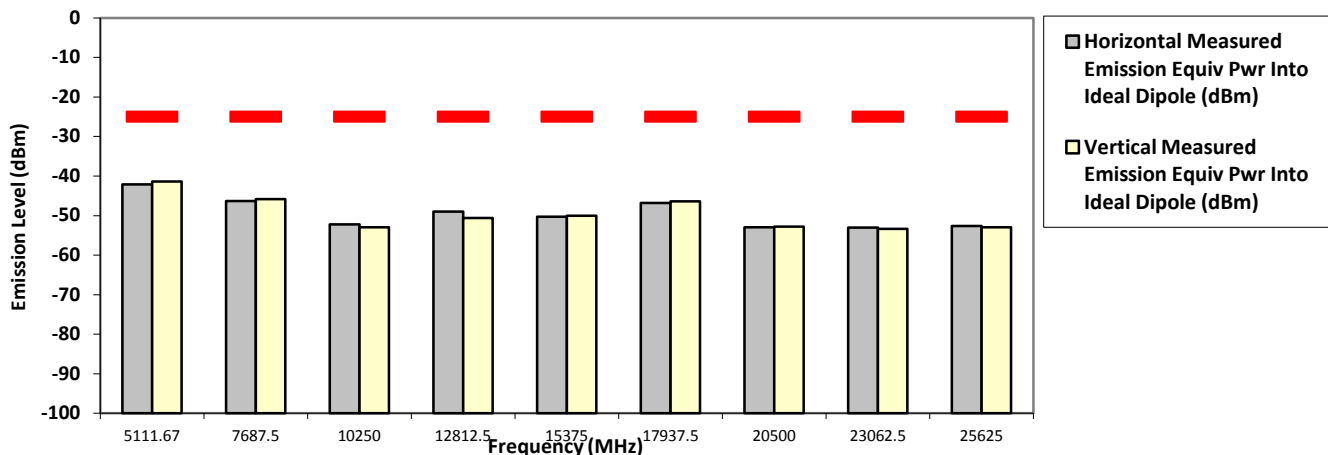
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2562.500000 MHz (High) Bandwidth 15MHz 0.224 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)
5111.6700	-25.0000	-42.1200	-41.3800
7687.5000	-25.0000	-46.3449 **	-45.7916 **
10250.0000	-25.0000	-52.2026 **	-52.9729 **
12812.5000	-25.0000	-49.0161 **	-50.5702 **
15375.0000	-25.0000	-50.2553 **	-50.0423 **
17937.5000	-25.0000	-46.7836 **	-46.3914 **
20500.0000	-25.0000	-52.9398 **	-52.7589 **
23062.5000	-25.0000	-53.0502 **	-53.3275 **
25625.0000	-25.0000	-52.6168 **	-52.9278 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

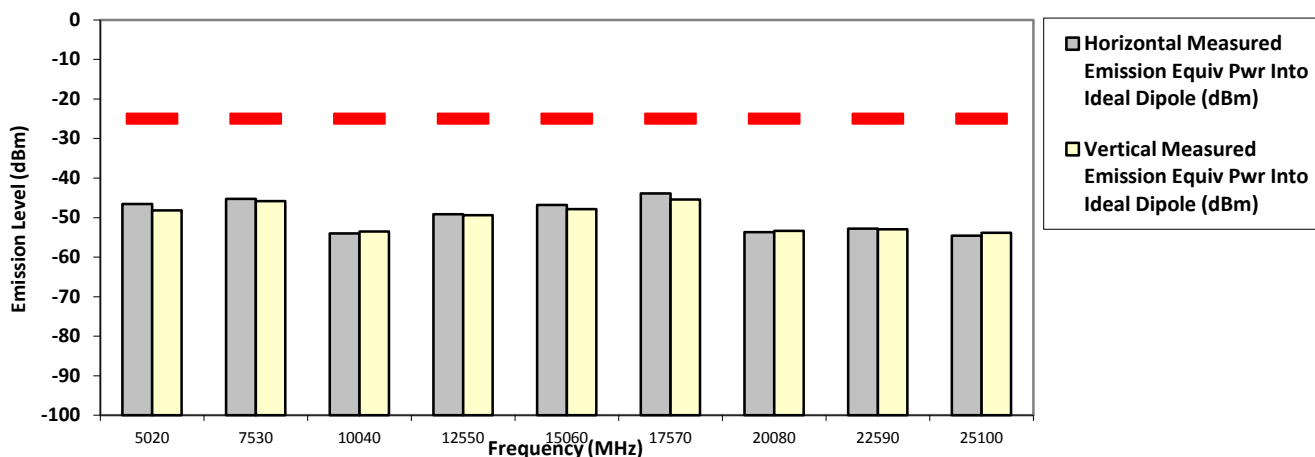
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2510.000000 MHz (Low) Bandwidth 20MHz 0.224 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)
5020.0000	-25.0000	-46.5347 **	-48.2104 **
7530.0000	-25.0000	-45.2812 **	-45.7906 **
10040.0000	-25.0000	-54.0073 **	-53.5364 **
12550.0000	-25.0000	-49.1356 **	-49.4163 **
15060.0000	-25.0000	-46.7617 **	-47.8149 **
17570.0000	-25.0000	-43.8864 **	-45.3937 **
20080.0000	-25.0000	-53.7072 **	-53.3641 **
22590.0000	-25.0000	-52.8083 **	-52.9675 **
25100.0000	-25.0000	-54.5671 **	-53.8104 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

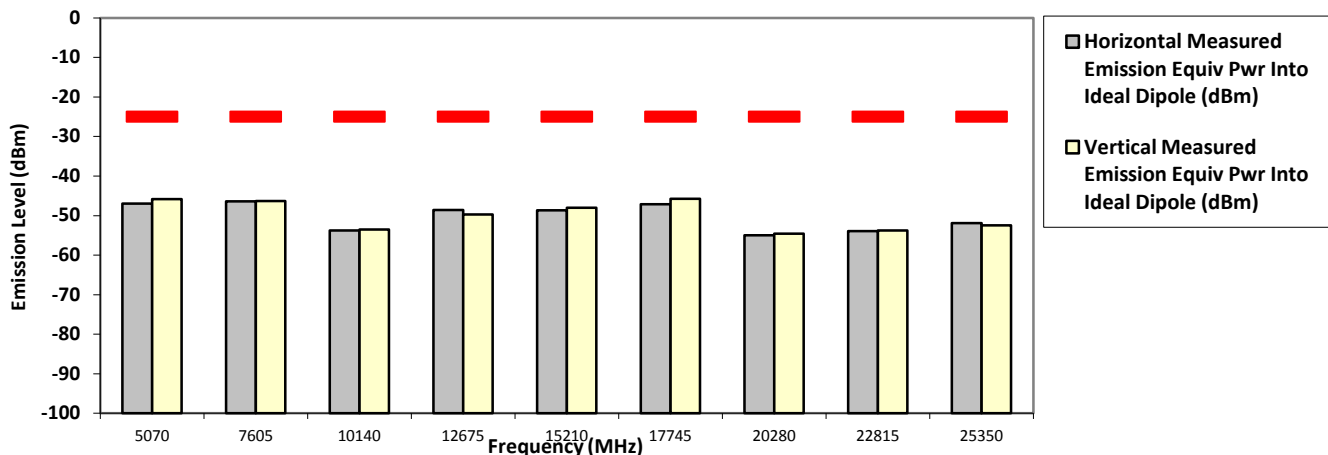
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2535.000000 MHz (Mid) Bandwidth 20MHz 0.224 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)
5070.0000	-25.0000	-46.9644 **	-45.8660 **
7605.0000	-25.0000	-46.3830 **	-46.3426 **
10140.0000	-25.0000	-53.7519 **	-53.5427 **
12675.0000	-25.0000	-48.6174 **	-49.7377 **
15210.0000	-25.0000	-48.6273 **	-48.0243 **
17745.0000	-25.0000	-47.1159 **	-45.7271 **
20280.0000	-25.0000	-55.0009 **	-54.6058 **
22815.0000	-25.0000	-53.8985 **	-53.7885 **
25350.0000	-25.0000	-51.9046 **	-52.4495 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Azil&Nazrin Sat, Apr 14, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

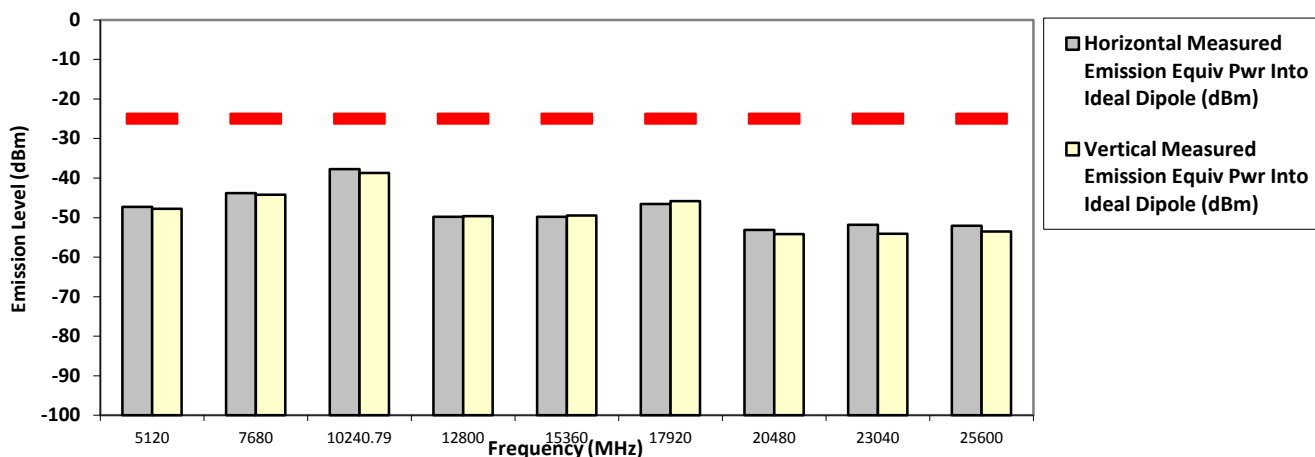
Remarks:

Passed Results	Marginal Results	Failed Results
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Model Number: LEX L11n Link Mode Radiated Emission: S/N: 790TUF0048 SR:08397-EMC-00199
 Battery Part No: PMNN4546A Accy Part No: 8397-PMLN7779A-5
 Test Mode: TX LTE (Band 7)
 2560.000000 MHz (High) Bandwidth 20MHz 0.224 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)
5120.0000	-25.0000	-47.2729 **	-47.7553 **
7680.0000	-25.0000	-43.8350 **	-44.2416 **
10240.7900	-25.0000	-37.7300	-38.7000
12800.0000	-25.0000	-49.7701 **	-49.5930 **
15360.0000	-25.0000	-49.8027 **	-49.4677 **
17920.0000	-25.0000	-46.5586 **	-45.8287 **
20480.0000	-25.0000	-53.1503 **	-54.1466 **
23040.0000	-25.0000	-51.7832 **	-54.0701 **
25600.0000	-25.0000	-52.0813 **	-53.5244 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
 Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Apr 15, 2018

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): 23.2 Hum(%RH): 70.3

System MU: 5.01 dB

Remarks:

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