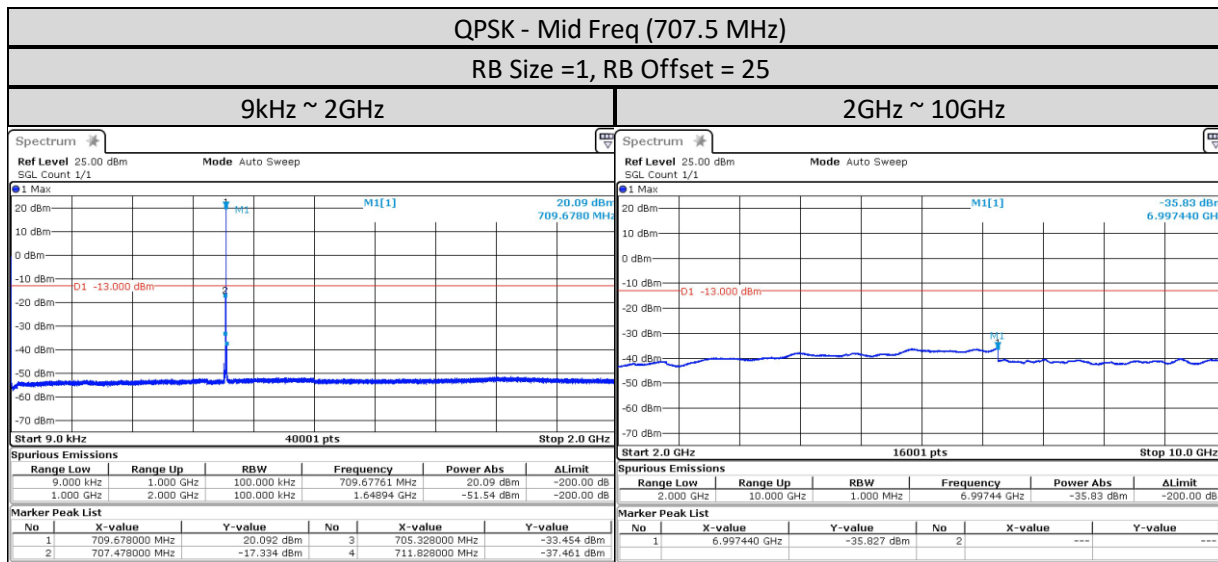
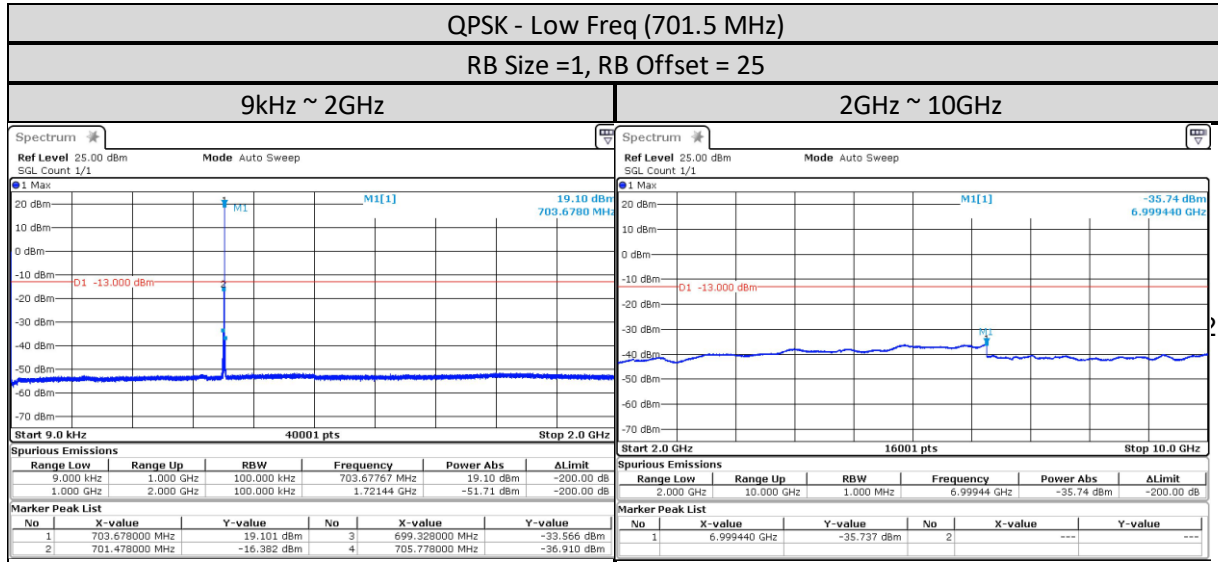
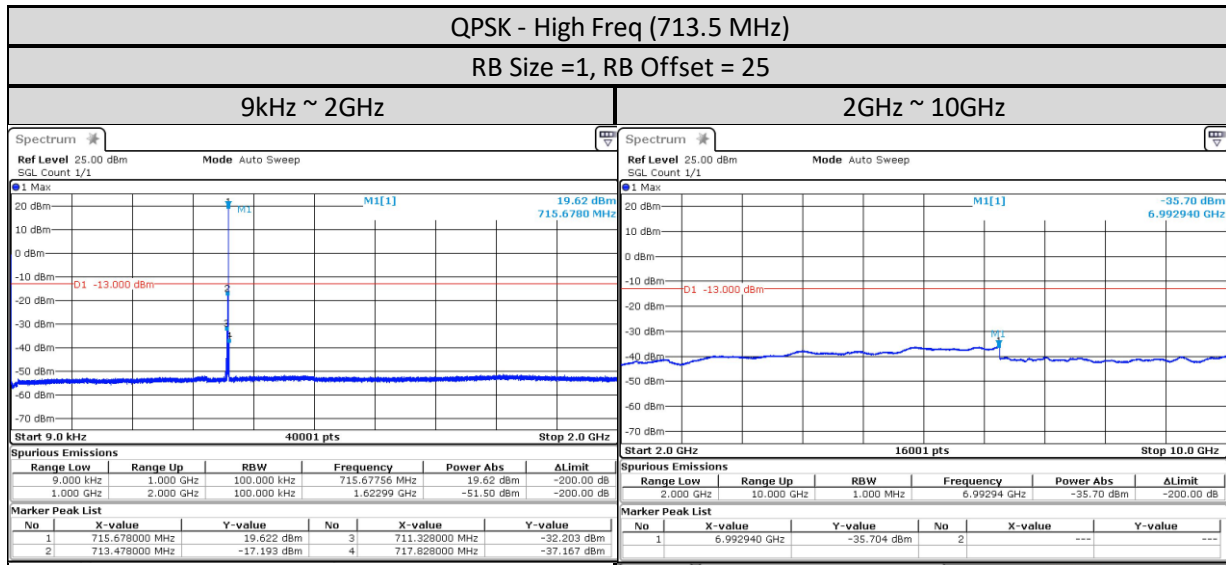
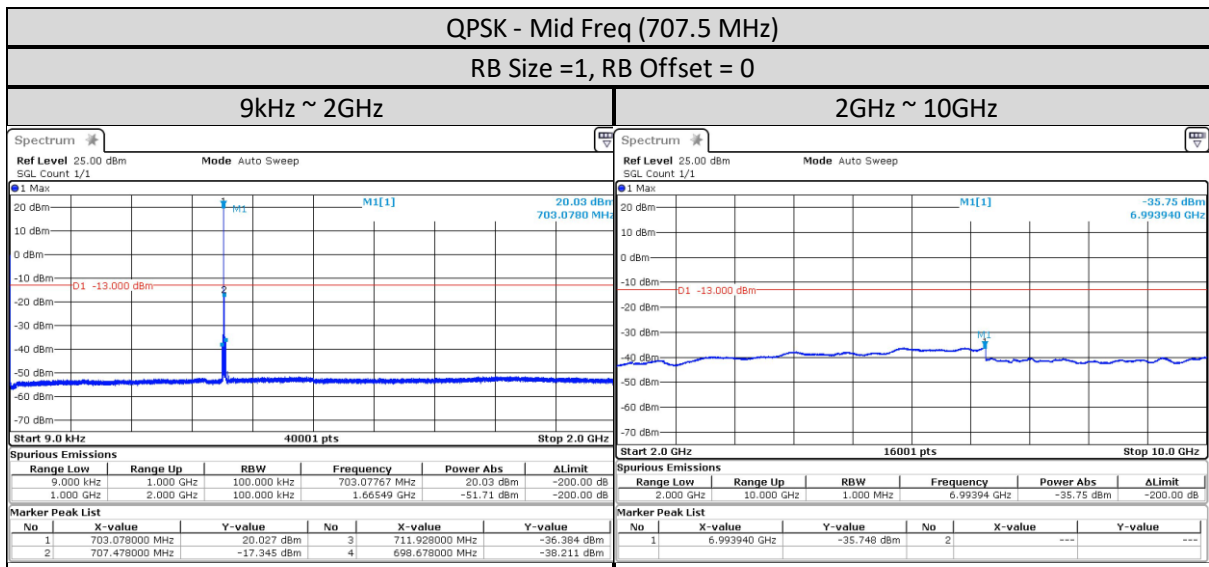
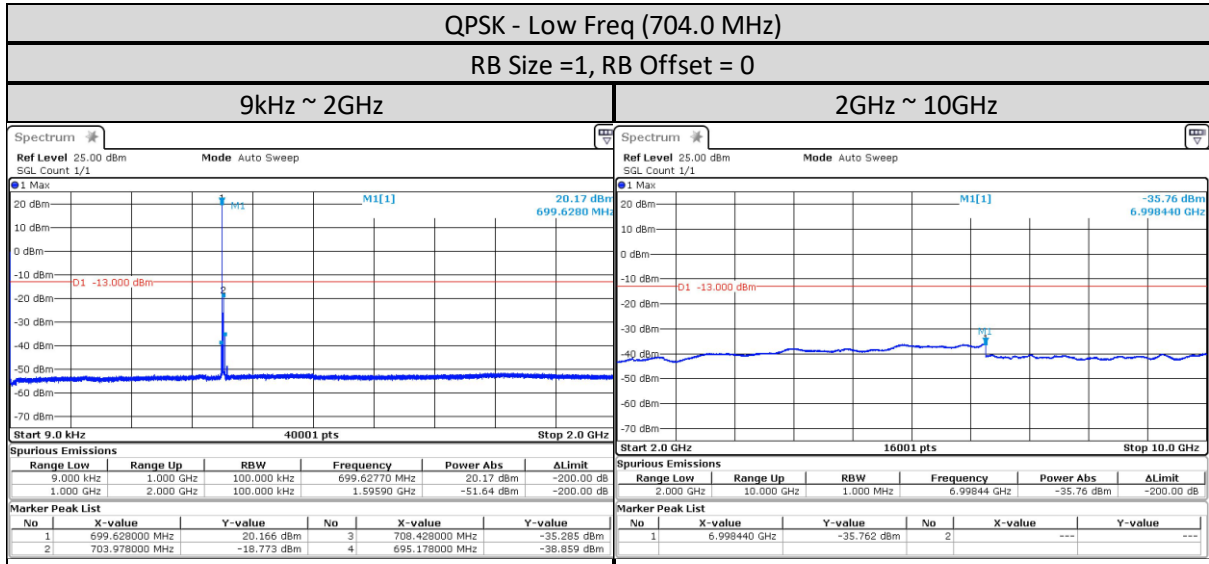


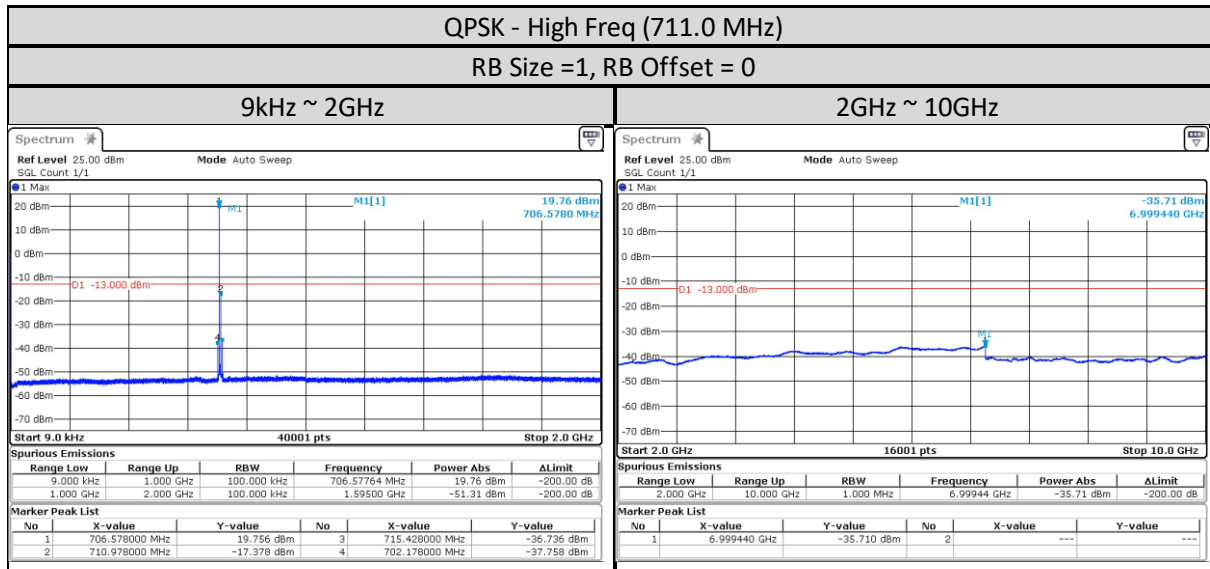
5MHz





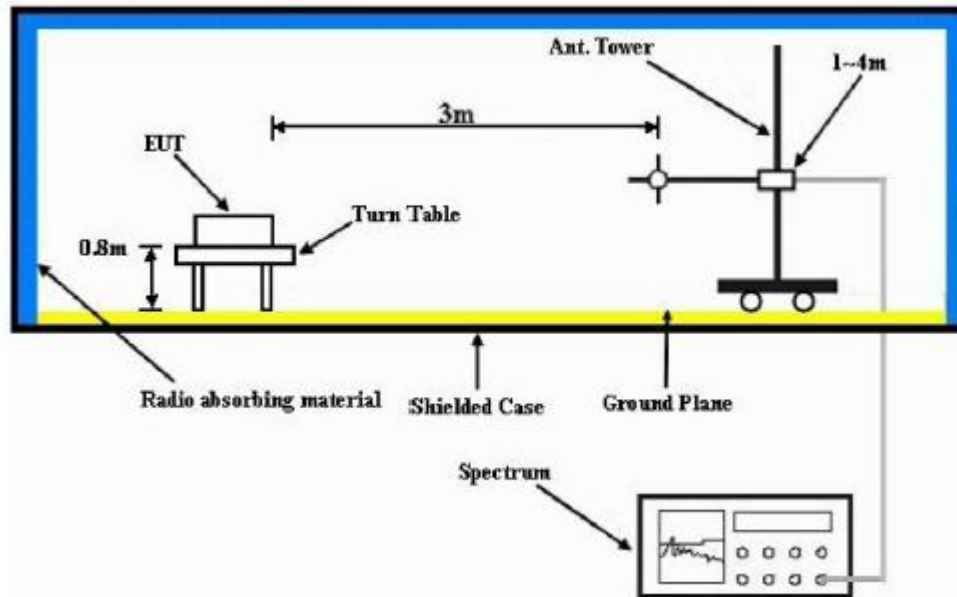
10MHz





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

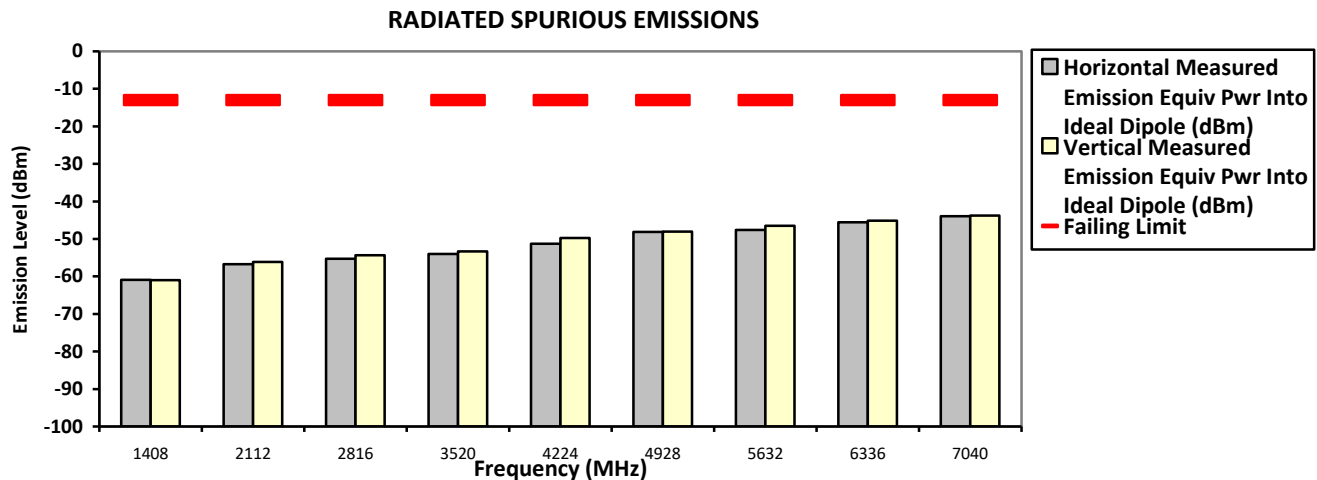
For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with 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 (699-716MHz)

SAC Transmitter Radiated Emission:

Model Number: H35XDT9PW8AN-H S/N: 022TAB0346 SR: 40793-EMC-00072
 Battery Part No: PMNN4818A Accy Part No: AN000452A01
 Test Mode: TX LTE (Band 12) X-Plane
 704.000000 MHz (Low) Bandwidth 10MHz 0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equip Pwr Into ideal Dipole (dBm)
1408.0000	-13.0000	-60.9445 **	-60.9990 **
2112.0000	-13.0000	-56.7019 **	-56.1249 **
2816.0000	-13.0000	-55.3094 **	-54.3142 **
3520.0000	-13.0000	-53.9957 **	-53.2884 **
4224.0000	-13.0000	-51.2854 **	-49.7793 **
4928.0000	-13.0000	-48.1268 **	-48.0819 **
5632.0000	-13.0000	-47.6547 **	-46.5427 **
6336.0000	-13.0000	-45.5662 **	-45.1858 **
7040.0000	-13.0000	-43.9149 **	-43.7910 **



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 & Fuad Fri, 29 Mar, 2024

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): 23.4 Hum(%RH): 69.3

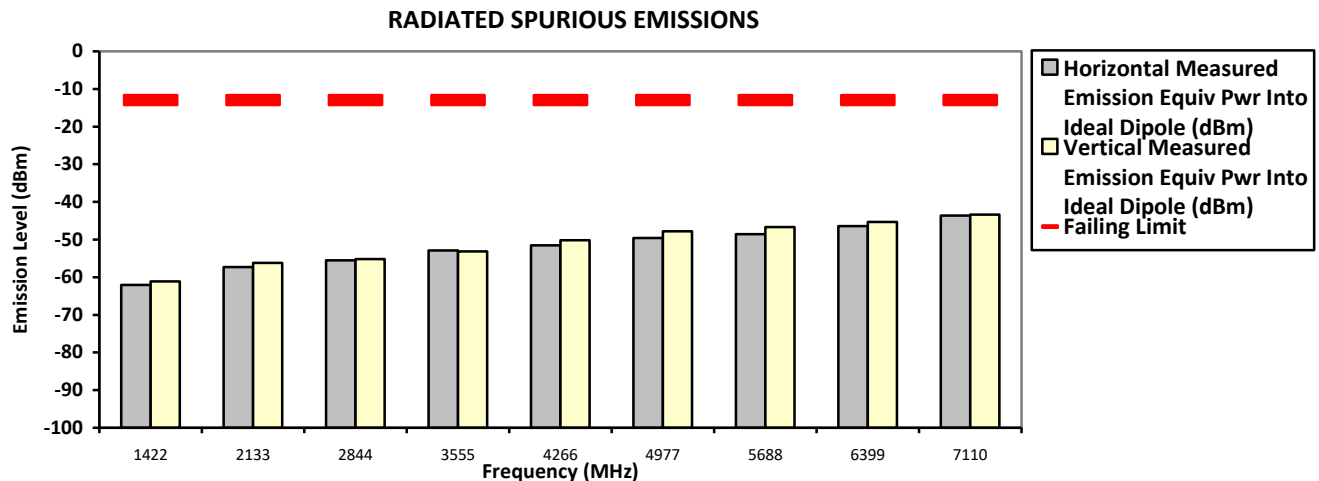
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: H35XDT9PW8AN-H S/N: 022TAB0346 SR: 40793-EMC-00072
 Battery Part No: PMNN4818A Accy Part No: AN000452A01
 Test Mode: TX LTE (Band 12) X-Plane
 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	-62.0680 **	-61.1401 **
2133.0000	-13.0000	-57.3016 **	-56.1596 **
2844.0000	-13.0000	-55.5447 **	-55.1379 **
3555.0000	-13.0000	-52.8521 **	-53.1203 **
4266.0000	-13.0000	-51.5533 **	-50.1772 **
4977.0000	-13.0000	-49.5980 **	-47.7713 **
5688.0000	-13.0000	-48.5959 **	-46.6653 **
6399.0000	-13.0000	-46.4151 **	-45.3013 **
7110.0000	-13.0000	-43.6695 **	-43.3503 **



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 & Fuad Fri, 29 Mar, 2024

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): 23.4 Hum(%RH): 69.3

System MU: 4.03 dB

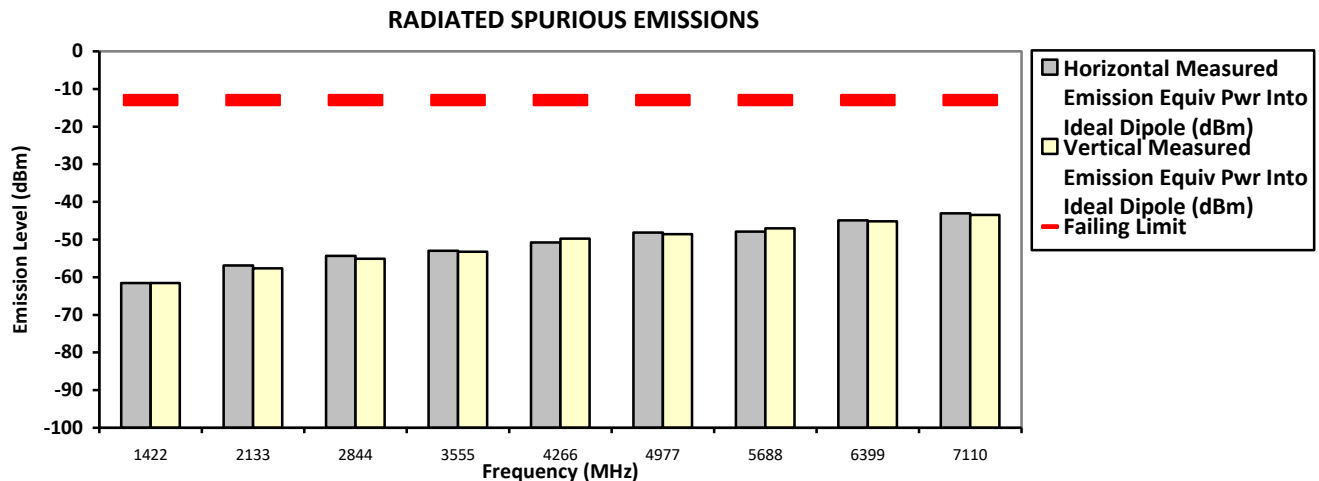
Remarks:

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

SAC Transmitter Radiated Emission:

Model Number: H35XDT9PW8AN-H **S/N: 022TAB0346** **SR: 40793-EMC-00072**
Battery Part No: PMNN4818A **Accy Part No: AN000452A01**
Test Mode: TX LTE (Band 12) Y-Plane
711.000000 MHz (High) **Bandwidth 10MHz** **0.252 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equip Pwr Into ideal Dipole (dBm)
1422.0000	-13.0000	-61.5643 **	-61.5163 **
2133.0000	-13.0000	-56.8975 **	-57.6431 **
2844.0000	-13.0000	-54.3697 **	-55.0573 **
3555.0000	-13.0000	-52.9597 **	-53.1890 **
4266.0000	-13.0000	-50.7736 **	-49.7624 **
4977.0000	-13.0000	-48.1070 **	-48.5547 **
5688.0000	-13.0000	-47.8407 **	-47.0374 **
6399.0000	-13.0000	-44.8734 **	-45.1937 **
7110.0000	-13.0000	-43.0024 **	-43.4952 **



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 & Fuad Fri, 29 Mar, 2024

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): 23.4 Hum(%RH): 69.3

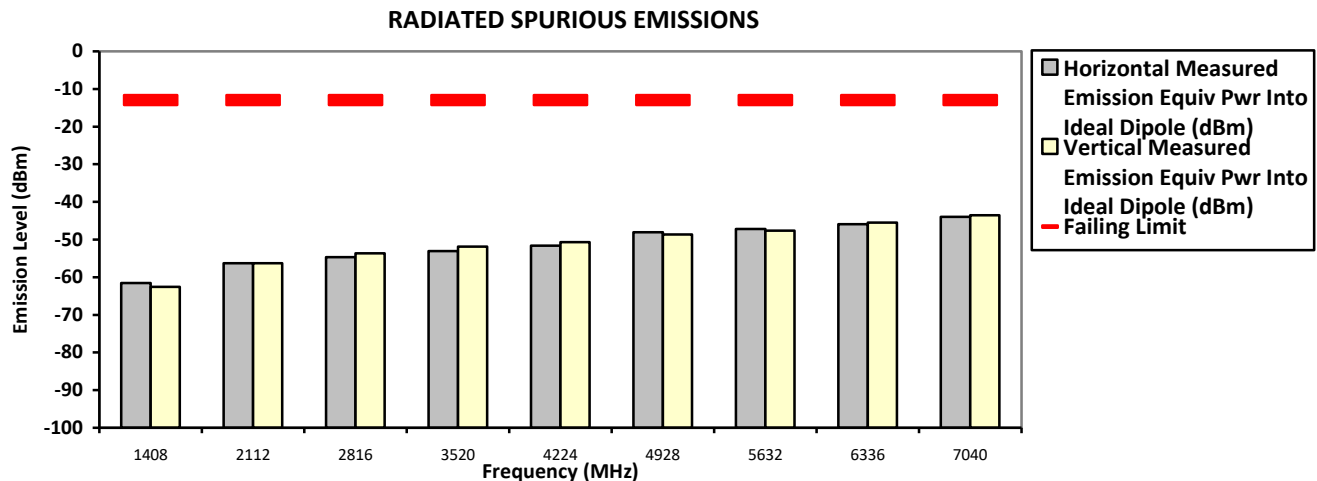
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: H35XDT9PW8AN-H S/N: 022TAB0346 SR: 40793-EMC-00072
 Battery Part No: PMNN4818A Accy Part No: AN000452A01
 Test Mode: TX LTE (Band 12) Z-Plane
 704.000000 MHz (Low) Bandwidth 10MHz 0.252 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equip Pwr Into ideal Dipole (dBm)
1408.0000	-13.0000	-61.5731 **	-62.5401 **
2112.0000	-13.0000	-56.3130 **	-56.3176 **
2816.0000	-13.0000	-54.6995 **	-53.6422 **
3520.0000	-13.0000	-53.0689 **	-51.8681 **
4224.0000	-13.0000	-51.5973 **	-50.7175 **
4928.0000	-13.0000	-48.0707 **	-48.6206 **
5632.0000	-13.0000	-47.2068 **	-47.6370 **
6336.0000	-13.0000	-45.8960 **	-45.4985 **
7040.0000	-13.0000	-43.9457 **	-43.5662 **



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 & Fuad Fri, 29 Mar, 2024

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): 23.4 Hum(%RH): 69.3

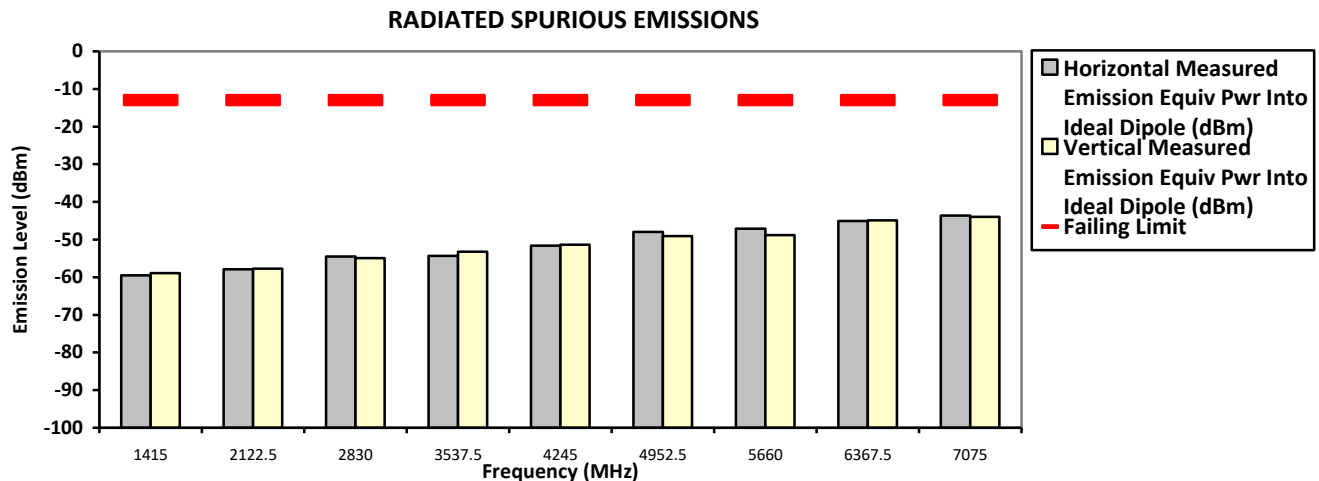
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: H35XDT9PW8AN-H **S/N: 022TAB0346** **SR: 40793-EMC-00072**
Battery Part No: PMNN4818A **Accy Part No: AN000452A01**
Test Mode: TX LTE (Band 12) Z-Plane
707.500000 MHz (Mid) **Bandwidth 1.4MHz** **0.252 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equip Pwr Into ideal Dipole (dBm)
1415.0000	-13.0000	-59.4818 **	-58.9051 **
2122.5000	-13.0000	-57.8831 **	-57.7066 **
2830.0000	-13.0000	-54.5282 **	-54.8919 **
3537.5000	-13.0000	-54.3235 **	-53.2367 **
4245.0000	-13.0000	-51.6076 **	-51.3407 **
4952.5000	-13.0000	-47.9252 **	-49.0287 **
5660.0000	-13.0000	-47.1391 **	-48.7736 **
6367.5000	-13.0000	-45.1142 **	-44.9134 **
7075.0000	-13.0000	-43.6413 **	-44.0046 **



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 & Fuad Fri, 29 Mar, 2024

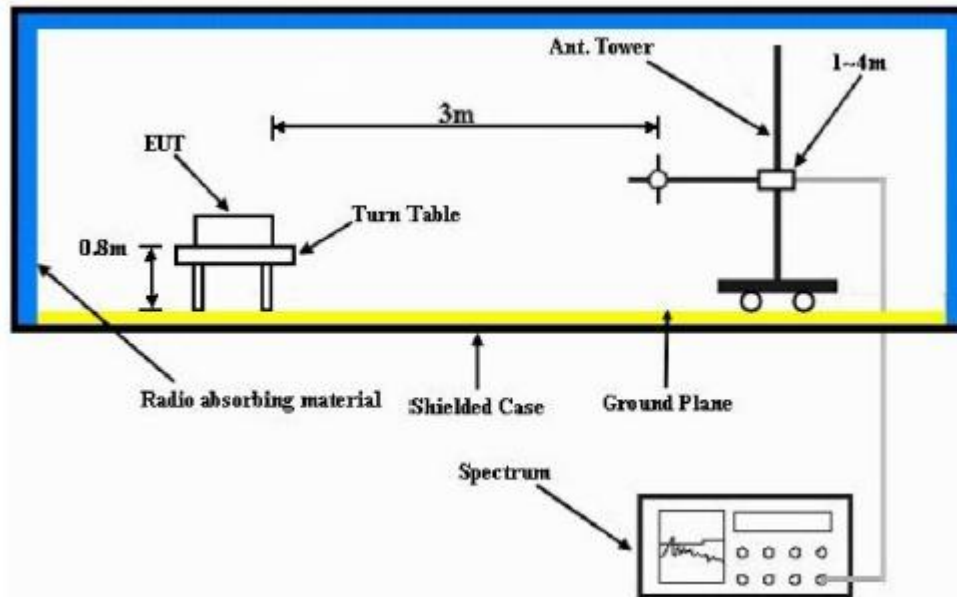
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.4 Hum(%RH): 69.3

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

1.13. Effective Radiated Power (ERP)

1.13.1. 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 RMS.
- 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) EIRP = “Read Value” + Measured substitution value.

1.13.2. Test Limit

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). Power is given in terms of effective radiated power (ERP).

1.13.3. Effective Radiated Power (ERP) - LTE Band 12 (699-716MHz)

[Refer to 1.6.4 / Not Performed.](#)

--End of Test Report--