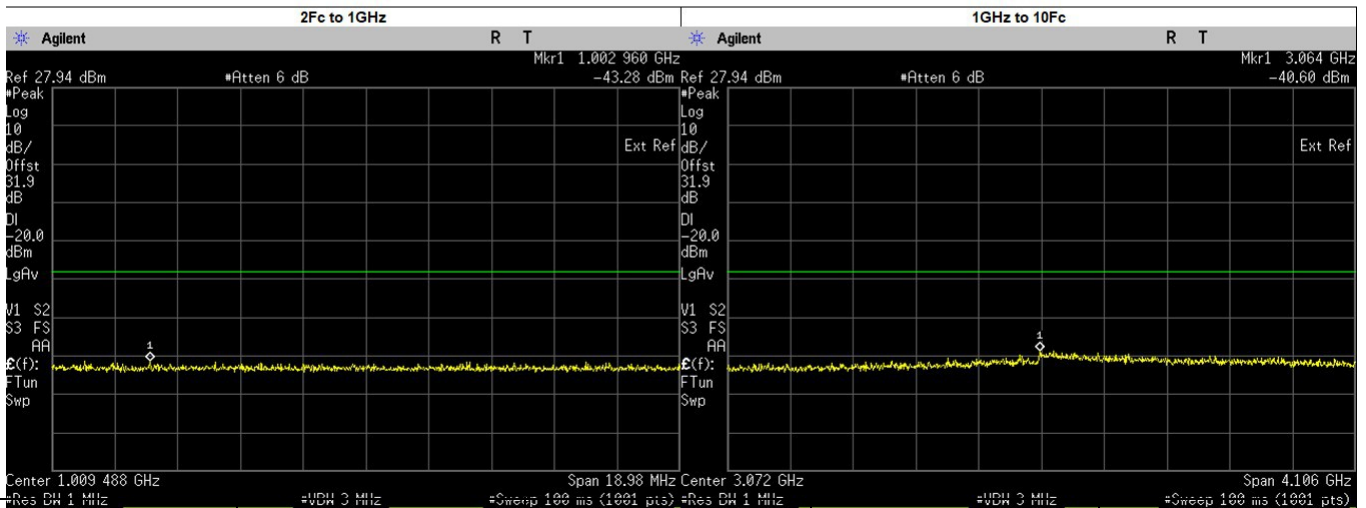
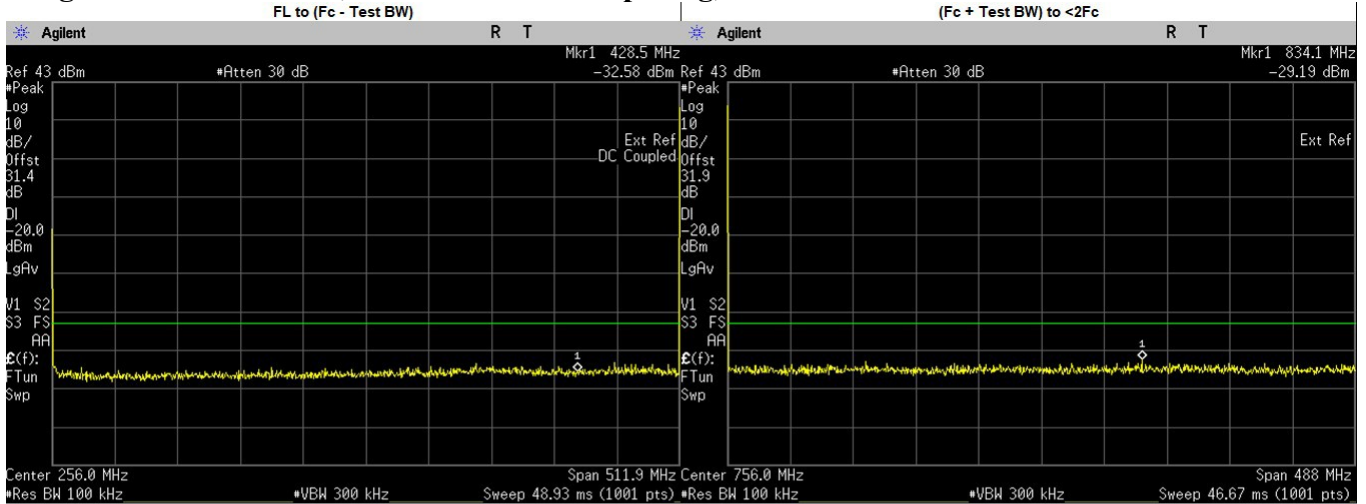
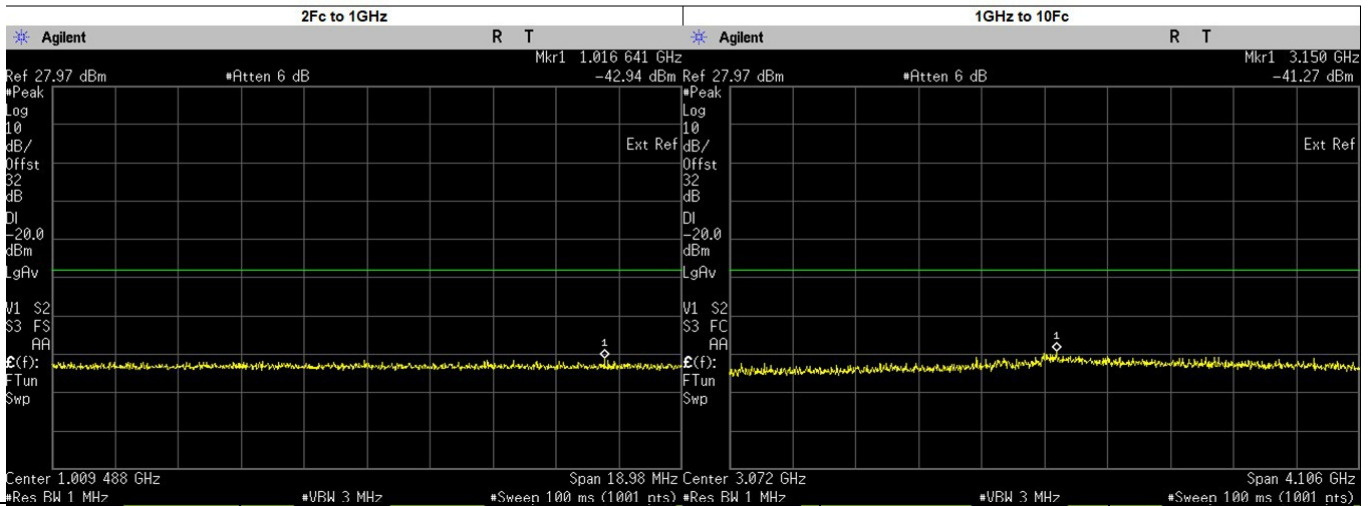
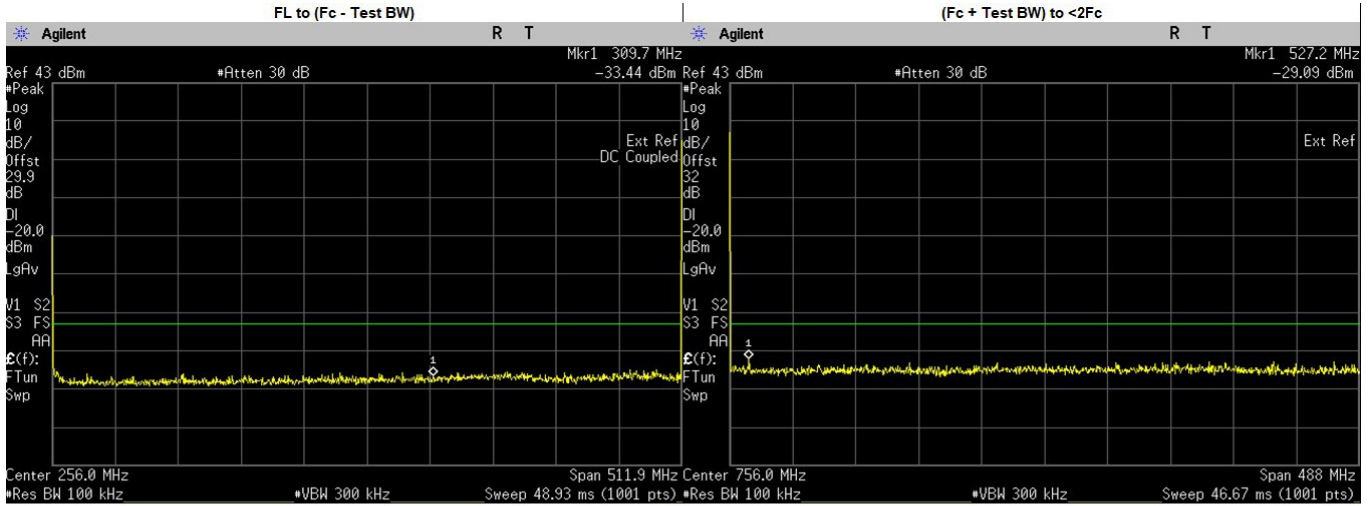


Digital: 511.9875 MHz, 12.5 kHz Channel Spacing, Max Power



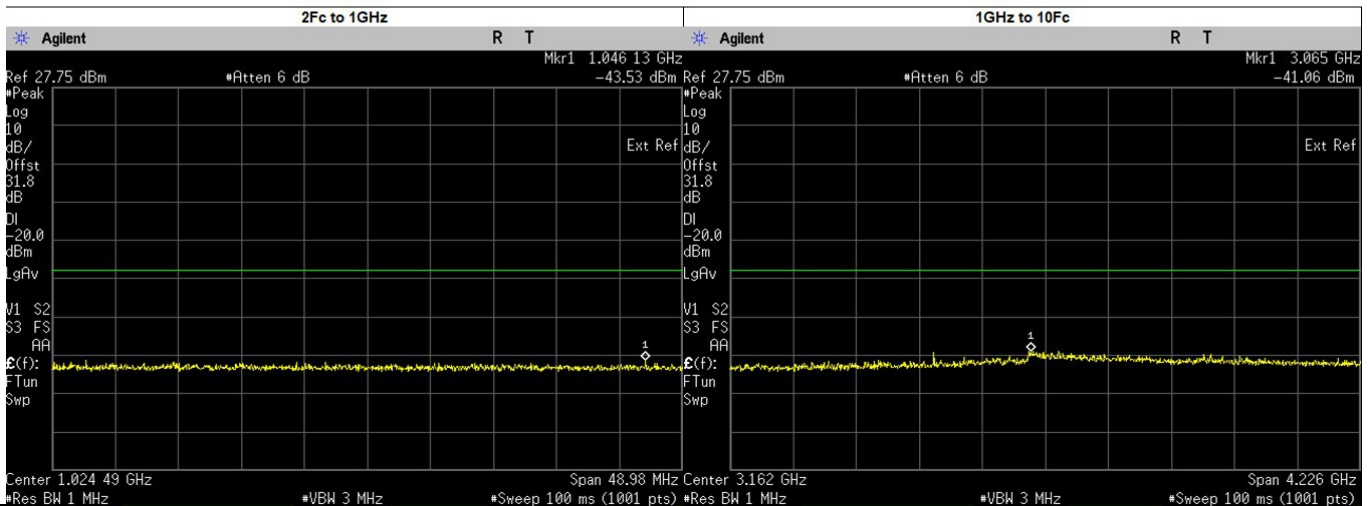
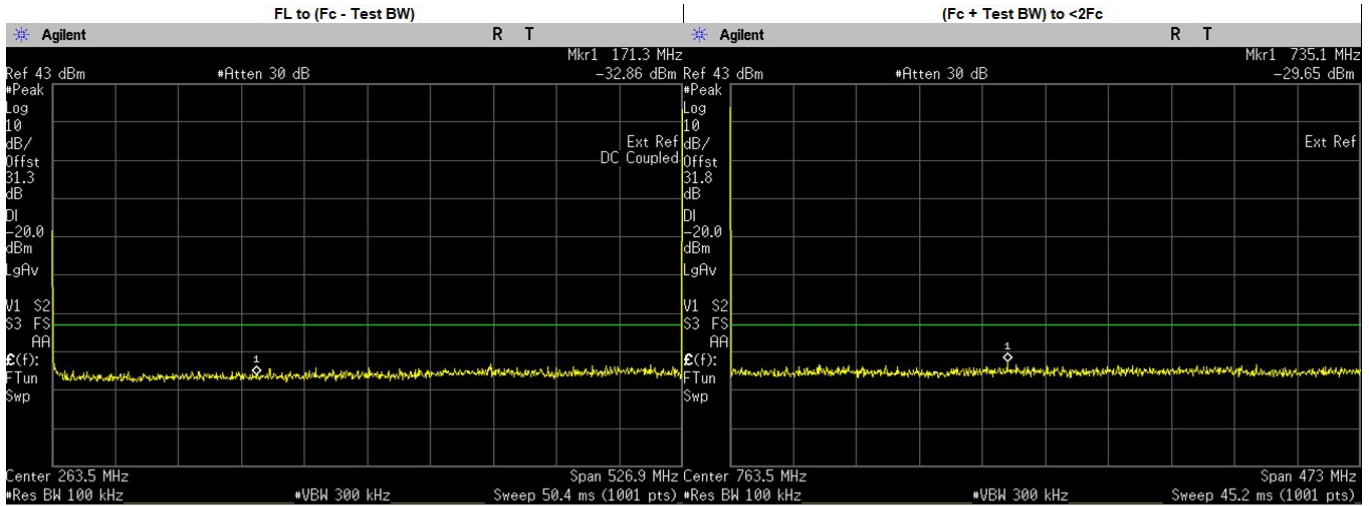
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	428.5000	-32.5830	-20.00	PASS
(Fc + Test BW) to <2Fc	834.0951	-29.2000	-20.00	PASS
2Fc to 1GHz	1002.9600	-43.2800	-20.00	PASS
1GHz to 10Fc	3063.7130	-40.6000	-20.00	PASS
	1023.9750	-44.2833	-20.00	PASS
	1535.9630	-45.2054	-20.00	PASS
	2047.9500	-44.8286	-20.00	PASS
	2559.9370	-44.8993	-20.00	PASS
	3071.9250	-42.3080	-20.00	PASS
	3583.9120	-43.1481	-20.00	PASS
	4095.9000	-43.8396	-20.00	PASS
	4607.8870	-43.9985	-20.00	PASS
5119.8750	-43.7140	-20.00	PASS	

Digital; 511.9875 MHz, 12.5 kHz Channel Spacing, Low Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	309.7000	-33.4450	-20.00	PASS
(Fc + Test BW) to <2Fc	527.1709	-29.0900	-20.00	PASS
2Fc to 1GHz	1016.6410	-42.9400	-20.00	PASS
1GHz to 10Fc	3150.0000	-41.2700	-20.00	PASS
	1023.9750	-45.3721	-20.00	PASS
	1535.9630	-44.9034	-20.00	PASS
	2047.9500	-44.1577	-20.00	PASS
	2559.9370	-44.6028	-20.00	PASS
	3071.9250	-42.3770	-20.00	PASS
	3583.9120	-43.1171	-20.00	PASS
	4095.9000	-43.3560	-20.00	PASS
	4607.8870	-43.4065	-20.00	PASS
	5119.8750	-43.8245	-20.00	PASS

Digital; 526.9875 MHz, 12.5 kHz Channel Spacing, Max Power
 Not for FCC review



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	171.3000	-32.8610	-20.00	PASS
(Fc + Test BW) to <2Fc	735.1448	-29.6500	-20.00	PASS
2Fc to 1GHz	1046.1340	-43.5300	-20.00	PASS
1GHz to 10Fc	3064.7290	-41.0600	-20.00	PASS
	1053.9750	-45.2920	-20.00	PASS
	1580.9630	-45.7913	-20.00	PASS
	2107.9500	-44.4994	-20.00	PASS
	2634.9370	-44.2853	-20.00	PASS
	3161.9250	-42.1070	-20.00	PASS
	3688.9120	-42.7378	-20.00	PASS
	4215.9000	-43.3542	-20.00	PASS
	4742.8870	-44.5955	-20.00	PASS
	5269.8750	-44.9394	-20.00	PASS

6.10.4. Test Limit

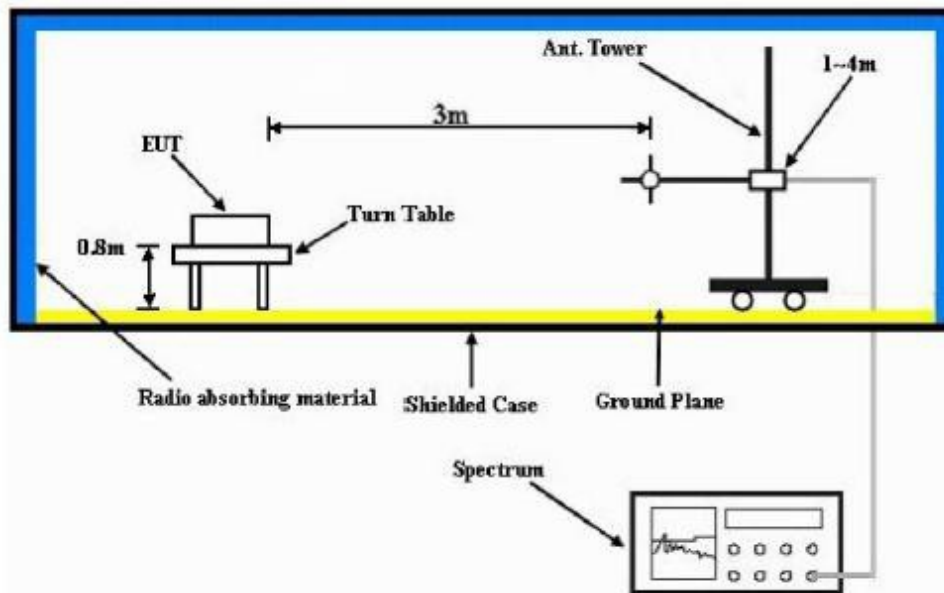
Table below summarized the power of any emission outside a licensee’s frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz		Not Applicable		43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz	Not Applicable	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

6.11. Radiated Spurious Emission

6.11.1. Test Setup



- 1) The Resolution Bandwidth for scanning Radiated Emission below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector mode is positive peak.
- 2) In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height (for $F_c < 1\text{GHz}$) or 1.5m height (for $F_c > 1\text{GHz}$) of Turn Table, 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 DUT 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.

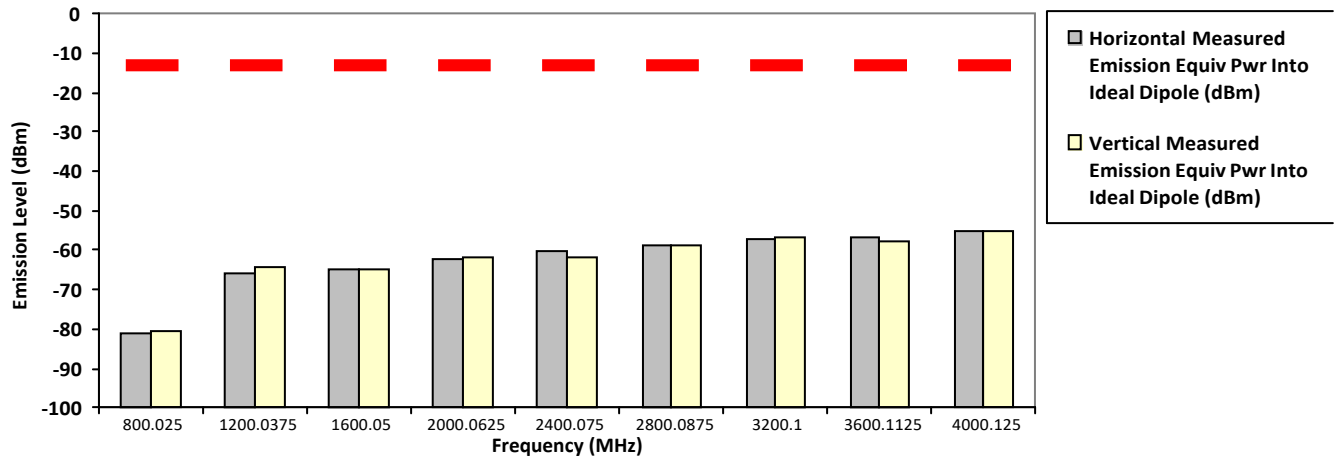
6.11.2. Test Result (Analog)

SAC Transmitter Radiated Emission:

Model Number: AAH06RDN9RA1AN S/N: 865TXP0010 SR:22639-EMC-00111
 Battery Part No: PMNN4810A Accy Part No: NA
 Test Mode: TX Analog
 400.012500 MHz(Not for FCC review) 25 kHz 4.800 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measure d Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equiv Pwr Into ideal Dipole (dBm)
800.0250	-13.0000	-81.0021 **	-80.5752 **
1200.0375	-13.0000	-65.9546 **	-64.5024 **
1600.0500	-13.0000	-64.7767 **	-64.6388 **
2000.0625	-13.0000	-62.1714 **	-61.8422 **
2400.0750	-13.0000	-60.4263 **	-61.8756 **
2800.0875	-13.0000	-59.0205 **	-58.9337 **
3200.1000	-13.0000	-57.1810 **	-56.8863 **
3600.1125	-13.0000	-56.8787 **	-57.7356 **
4000.1250	-13.0000	-55.1889 **	-55.1188 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

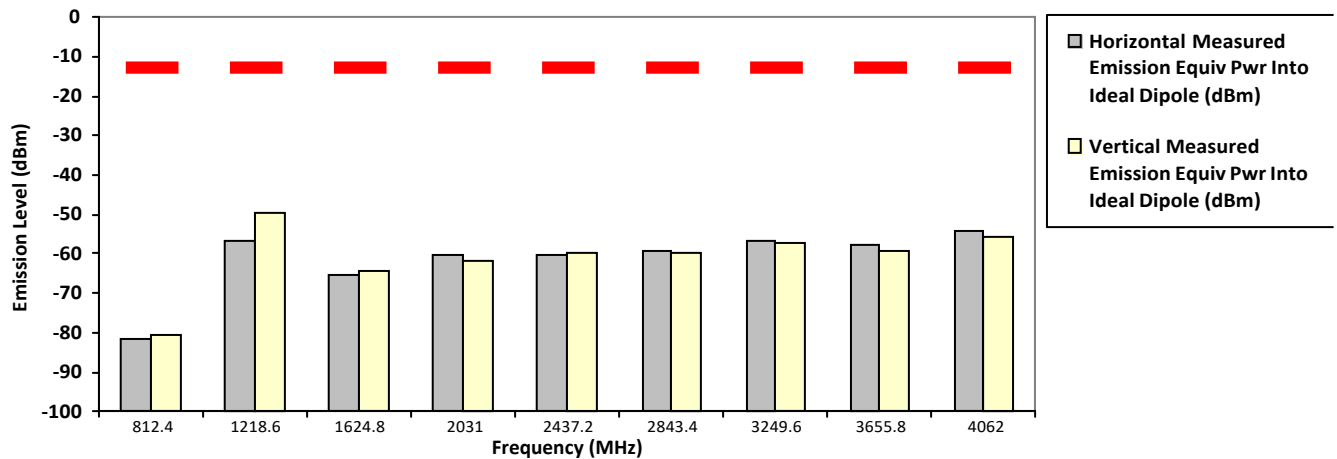
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Analog
406.20000 MHz(Not for FCC review) **25 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-13.0000	-81.6645 **	-80.4880 **
1218.6000	-13.0000	-56.7200 *	-49.6400 *
1624.8000	-13.0000	-65.2537 **	-64.5271 **
2031.0000	-13.0000	-60.1078 **	-61.7600 **
2437.2000	-13.0000	-60.4930 **	-59.9943 **
2843.4000	-13.0000	-59.3178 **	-59.6298 **
3249.6000	-13.0000	-56.8731 **	-57.4524 **
3655.8000	-13.0000	-58.0150 **	-59.1458 **
4062.0000	-13.0000	-54.2089 **	-55.5719 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

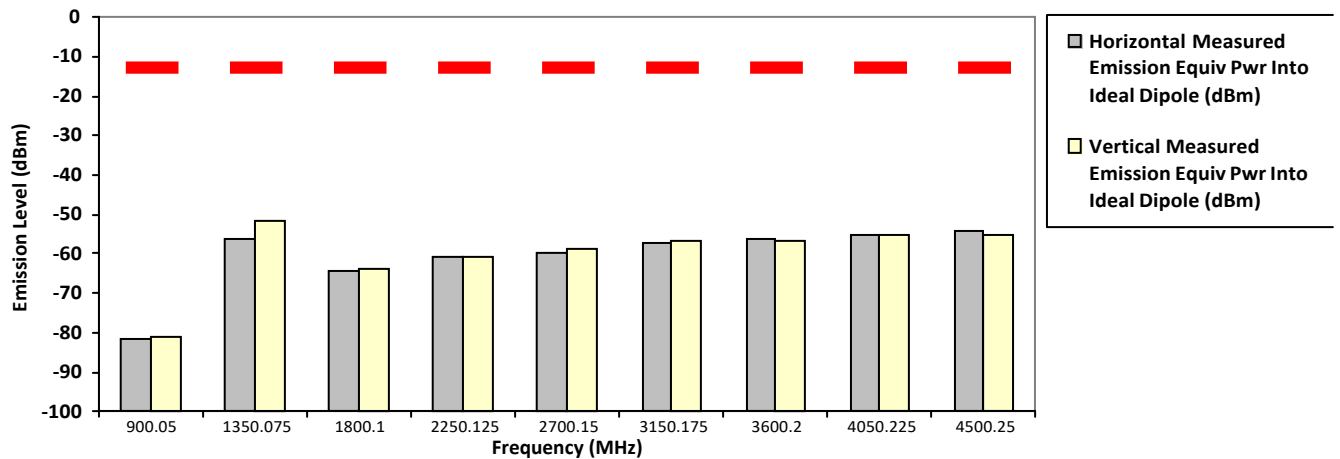
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Analog
450.025000 MHz **25 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equiv Pwr Into ideal Dipole (dBm)
900.0500	-13.0000	-81.5658 **	-80.9259 **
1350.0750	-13.0000	-56.2700 *	-51.7900 *
1800.1000	-13.0000	-64.2313 **	-63.9968 **
2250.1250	-13.0000	-60.5852 **	-61.0419 **
2700.1500	-13.0000	-59.7595 **	-58.7273 **
3150.1750	-13.0000	-57.4614 **	-56.8493 **
3600.2000	-13.0000	-56.0482 **	-56.7532 **
4050.2250	-13.0000	-55.2623 **	-55.0310 **
4500.2500	-13.0000	-54.2513 **	-55.2701 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

System MU: 4.03 dB

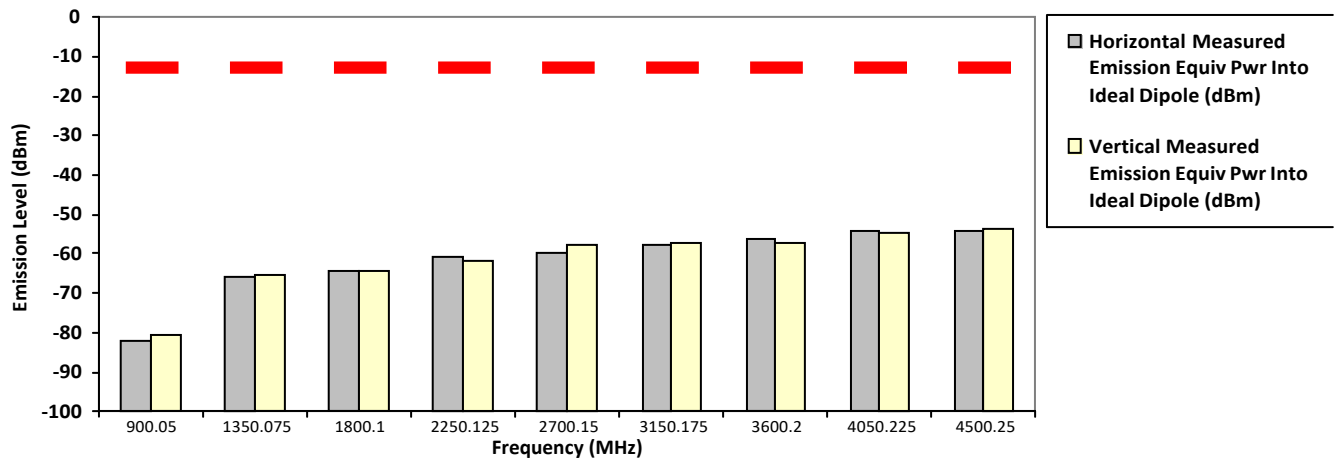
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Analog
450.025000 MHz **25 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equiv Pwr Into ideal Dipole (dBm)
900.0500	-13.0000	-81.9452 **	-80.7408 **
1350.0750	-13.0000	-66.1349 **	-65.2722 **
1800.1000	-13.0000	-64.3300 **	-64.2635 **
2250.1250	-13.0000	-60.8366 **	-61.6782 **
2700.1500	-13.0000	-59.8199 **	-57.9927 **
3150.1750	-13.0000	-57.9476 **	-57.1962 **
3600.2000	-13.0000	-56.4842 **	-57.3286 **
4050.2250	-13.0000	-54.0246 **	-54.7953 **
4500.2500	-13.0000	-54.4351 **	-53.7752 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

System MU: 4.03 dB

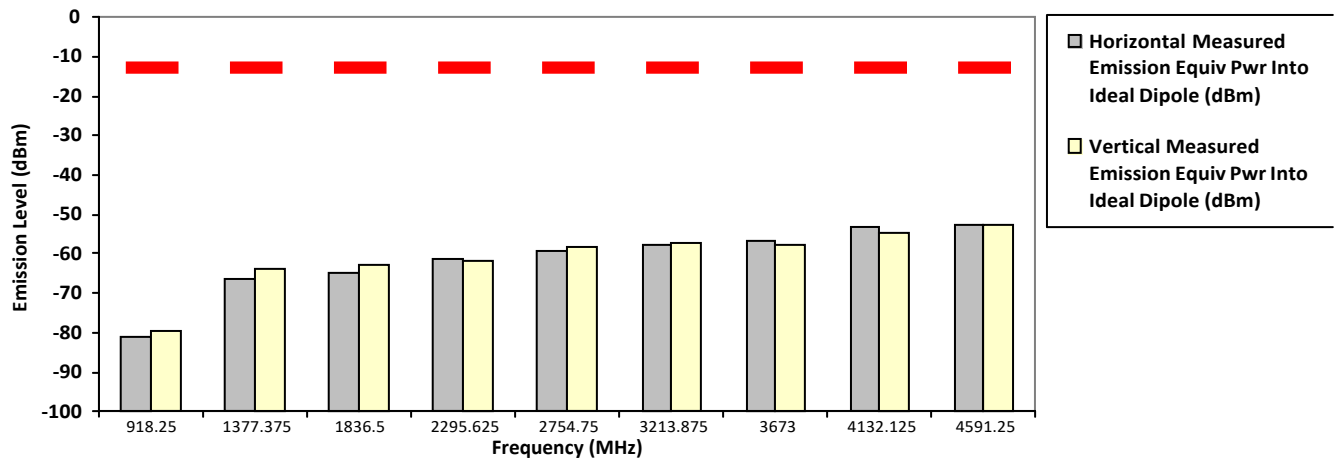
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Analog
459.125000 MHz **25 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equiv Pwr Into ideal Dipole (dBm)
918.2500	-13.0000	-81.0101 **	-79.8374 **
1377.3750	-13.0000	-66.4459 **	-63.7499 **
1836.5000	-13.0000	-64.7159 **	-63.0879 **
2295.6250	-13.0000	-61.5696 **	-61.7148 **
2754.7500	-13.0000	-59.4080 **	-58.5011 **
3213.8750	-13.0000	-57.6714 **	-57.1419 **
3673.0000	-13.0000	-56.9495 **	-57.8582 **
4132.1250	-13.0000	-53.4053 **	-54.7277 **
4591.2500	-13.0000	-52.6146 **	-52.9262 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

System MU: 4.03 dB

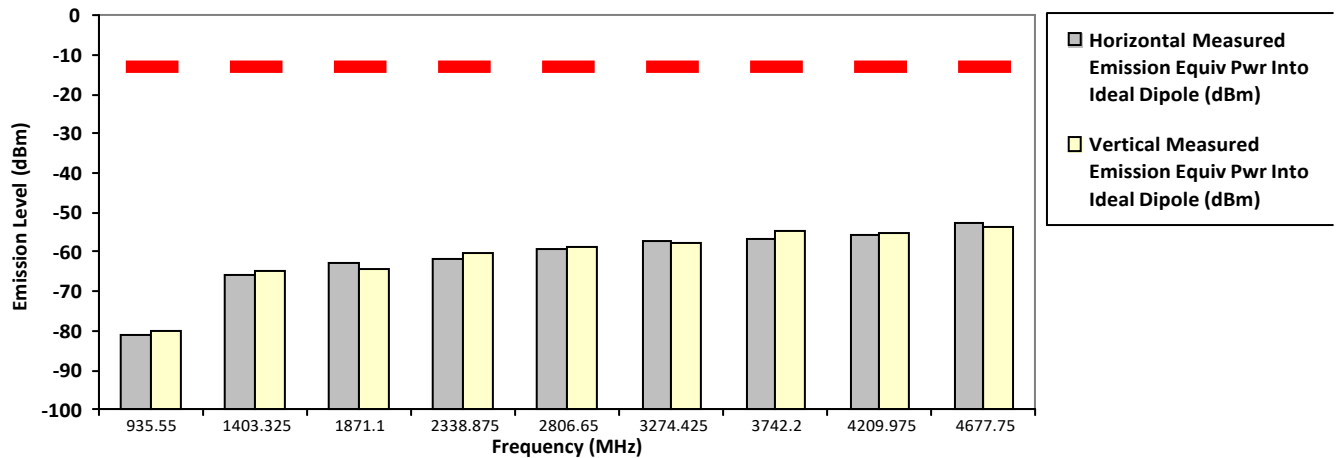
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Analog
467.775000 MHz **25 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
935.5500	-13.0000	-80.9936 **	-79.9164 **
1403.3250	-13.0000	-65.9095 **	-64.9321 **
1871.1000	-13.0000	-62.8872 **	-64.3228 **
2338.8750	-13.0000	-61.8617 **	-60.2225 **
2806.6500	-13.0000	-59.4186 **	-59.0189 **
3274.4250	-13.0000	-57.0281 **	-57.6451 **
3742.2000	-13.0000	-56.7492 **	-54.8195 **
4209.9750	-13.0000	-55.5529 **	-55.3899 **
4677.7500	-13.0000	-52.9358 **	-53.4704 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

System MU: 4.03 dB

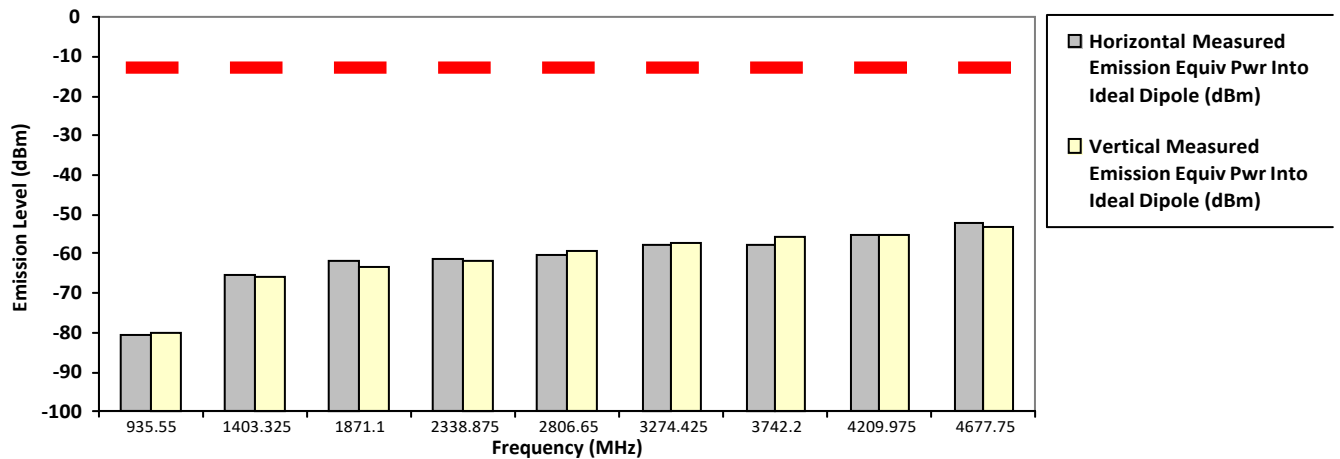
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Analog
467.775000 MHz **25 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equiv Pwr Into ideal Dipole (dBm)
935.5500	-13.0000	-80.8541 **	-80.2508 **
1403.3250	-13.0000	-65.5659 **	-66.0332 **
1871.1000	-13.0000	-61.7984 **	-63.3189 **
2338.8750	-13.0000	-61.2140 **	-62.0223 **
2806.6500	-13.0000	-60.3653 **	-59.2090 **
3274.4250	-13.0000	-57.7413 **	-57.3470 **
3742.2000	-13.0000	-57.5440 **	-55.8205 **
4209.9750	-13.0000	-55.4857 **	-55.4637 **
4677.7500	-13.0000	-52.0552 **	-53.3782 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

System MU: 4.03 dB

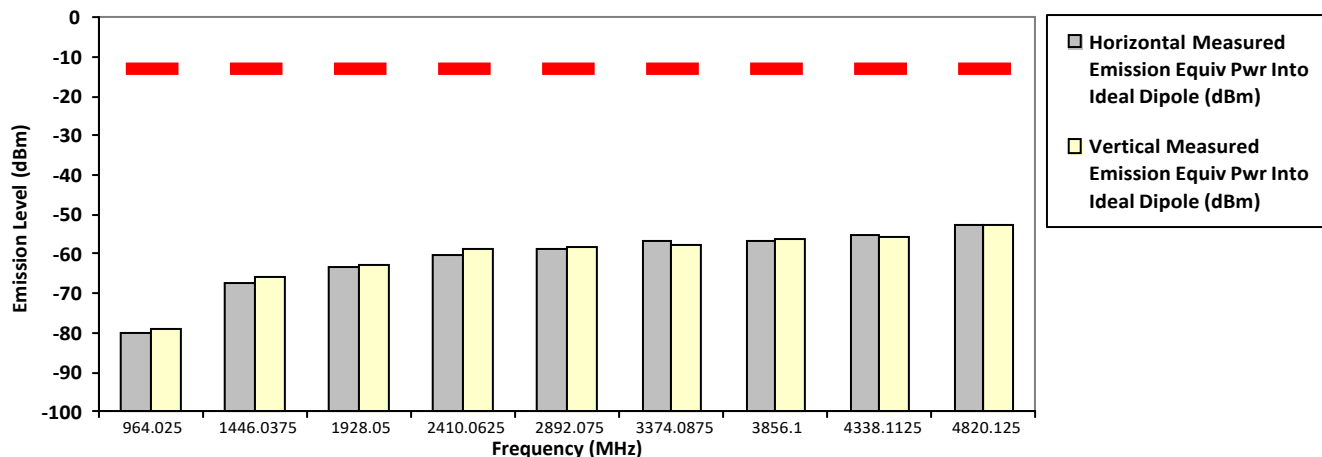
Remarks:

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

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Analog
482.012500 MHz **25 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
964.0250	-13.0000	-79.9242 **	-79.0001 **
1446.0375	-13.0000	-67.5142 **	-65.7943 **
1928.0500	-13.0000	-63.3353 **	-62.9860 **
2410.0625	-13.0000	-60.3759 **	-58.6424 **
2892.0750	-13.0000	-58.8401 **	-58.4380 **
3374.0875	-13.0000	-56.7420 **	-57.5978 **
3856.1000	-13.0000	-56.7866 **	-56.1848 **
4338.1125	-13.0000	-55.4552 **	-55.7418 **
4820.1250	-13.0000	-52.5722 **	-52.5846 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

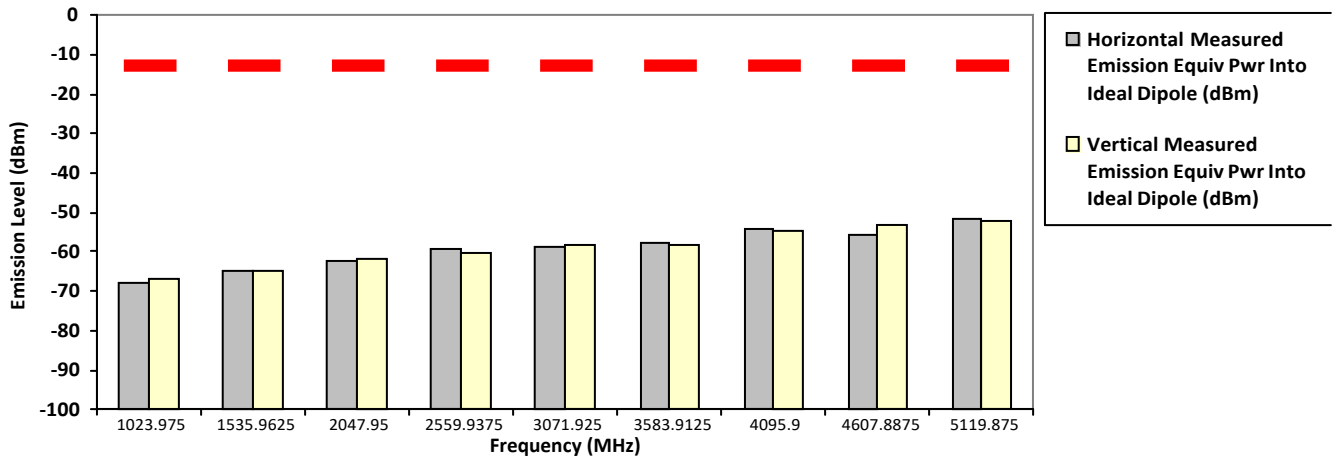
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Analog
511.987500 MHz **25 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equiv Pwr Into ideal Dipole (dBm)
1023.9750	-13.0000	-68.0386 **	-66.9872 **
1535.9625	-13.0000	-64.8058 **	-65.0913 **
2047.9500	-13.0000	-62.2632 **	-61.7339 **
2559.9375	-13.0000	-59.3517 **	-60.4860 **
3071.9250	-13.0000	-58.8918 **	-58.3445 **
3583.9125	-13.0000	-57.6397 **	-58.1774 **
4095.9000	-13.0000	-54.3849 **	-54.8103 **
4607.8875	-13.0000	-55.6304 **	-53.1516 **
5119.8750	-13.0000	-51.5940 **	-52.0995 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

System MU: 4.03 dB

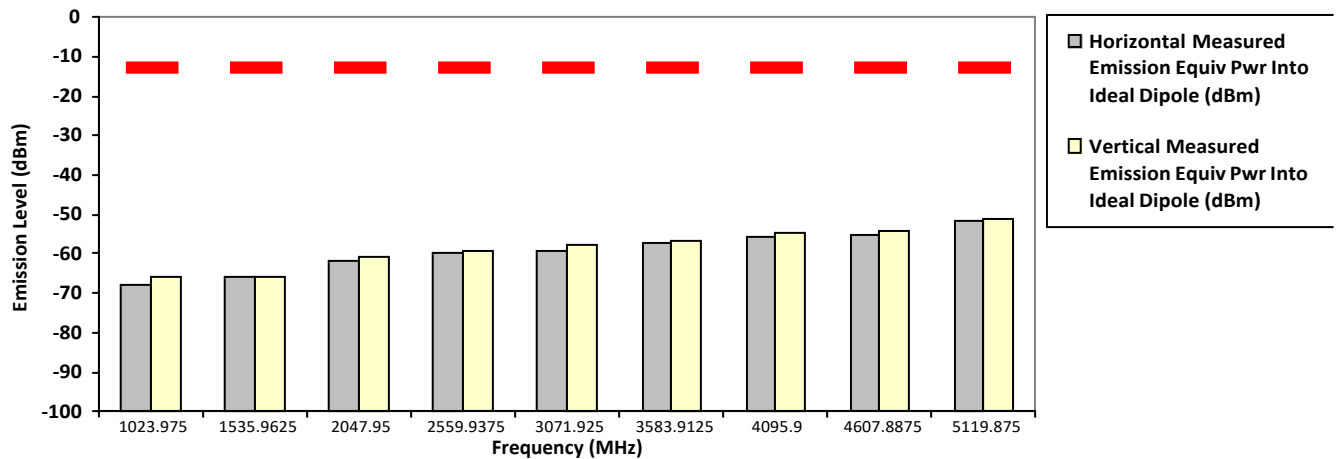
Remarks:

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

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Analog
511.987500 MHz **25 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equiv Pwr Into ideal Dipole (dBm)
1023.9750	-13.0000	-67.7887 **	-66.0487 **
1535.9625	-13.0000	-66.0281 **	-65.8603 **
2047.9500	-13.0000	-62.0553 **	-60.7537 **
2559.9375	-13.0000	-59.6628 **	-59.4681 **
3071.9250	-13.0000	-59.2084 **	-57.6788 **
3583.9125	-13.0000	-57.1704 **	-56.6224 **
4095.9000	-13.0000	-55.8877 **	-54.5954 **
4607.8875	-13.0000	-55.0680 **	-54.3464 **
5119.8750	-13.0000	-51.6350 **	-51.4128 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

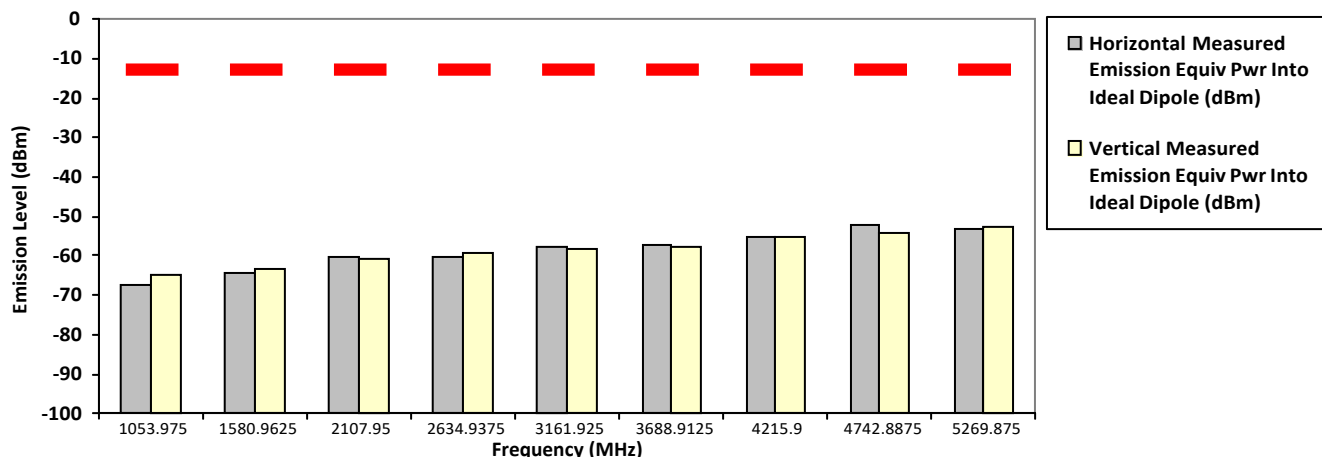
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Test Mode: TX Analog** **Accy Part No: NA**
526.987500 MHz(Not for FCC review) **25 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equiv Pwr Into ideal Dipole (dBm)
1053.9750	-13.0000	-67.4873 **	-64.7379 **
1580.9625	-13.0000	-64.5243 **	-63.1473 **
2107.9500	-13.0000	-60.5351 **	-60.9595 **
2634.9375	-13.0000	-60.4283 **	-59.5241 **
3161.9250	-13.0000	-57.6121 **	-58.0581 **
3688.9125	-13.0000	-57.2930 **	-57.5848 **
4215.9000	-13.0000	-55.0978 **	-55.4669 **
4742.8875	-13.0000	-52.3489 **	-53.9960 **
5269.8750	-13.0000	-53.1364 **	-52.6111 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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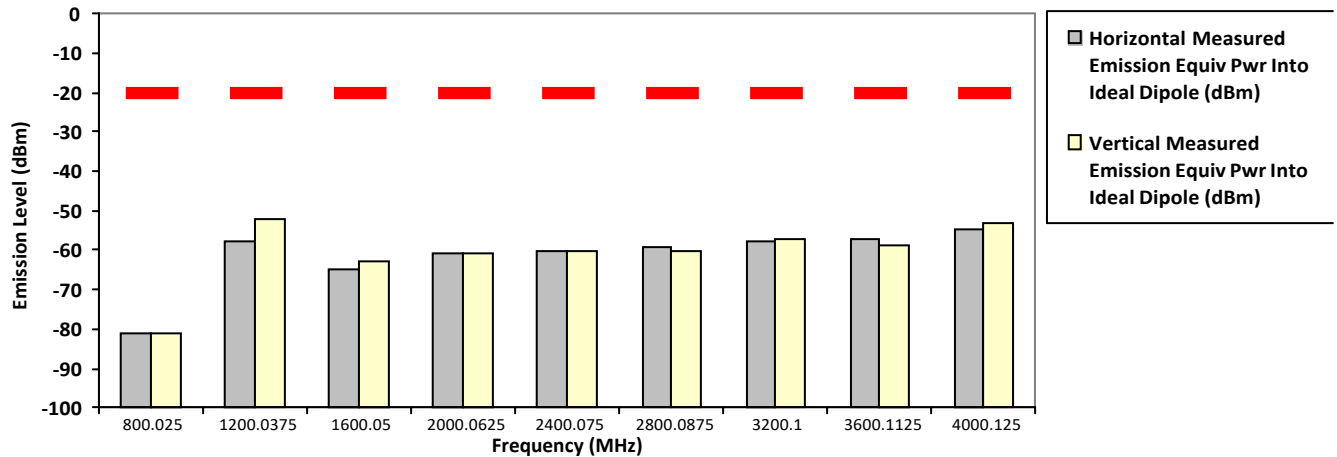
6.11.3. Test Result (Digital)

SAC Transmitter Radiated Emission:

Model Number: AAH06RDN9RA1AN S/N: 865TXP0010 SR:22639-EMC-00111
 Battery Part No: PMNN4810A Accy Part No: NA
 Test Mode: TX Digital
 400.012500 MHz(Not for FCC review) 12.5 kHz 4.800 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measure d Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equiv Pwr Into ideal Dipole (dBm)
800.0250	-20.0000	-81.2503 **	-80.9352 **
1200.0375	-20.0000	-57.5400 *	-52.4400 *
1600.0500	-20.0000	-64.6718 **	-62.8715 **
2000.0625	-20.0000	-60.7784 **	-61.0643 **
2400.0750	-20.0000	-60.3743 **	-60.3342 **
2800.0875	-20.0000	-59.4022 **	-60.2504 **
3200.1000	-20.0000	-57.7581 **	-57.0677 **
3600.1125	-20.0000	-57.1288 **	-58.8025 **
4000.1250	-20.0000	-54.9675 **	-53.2155 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

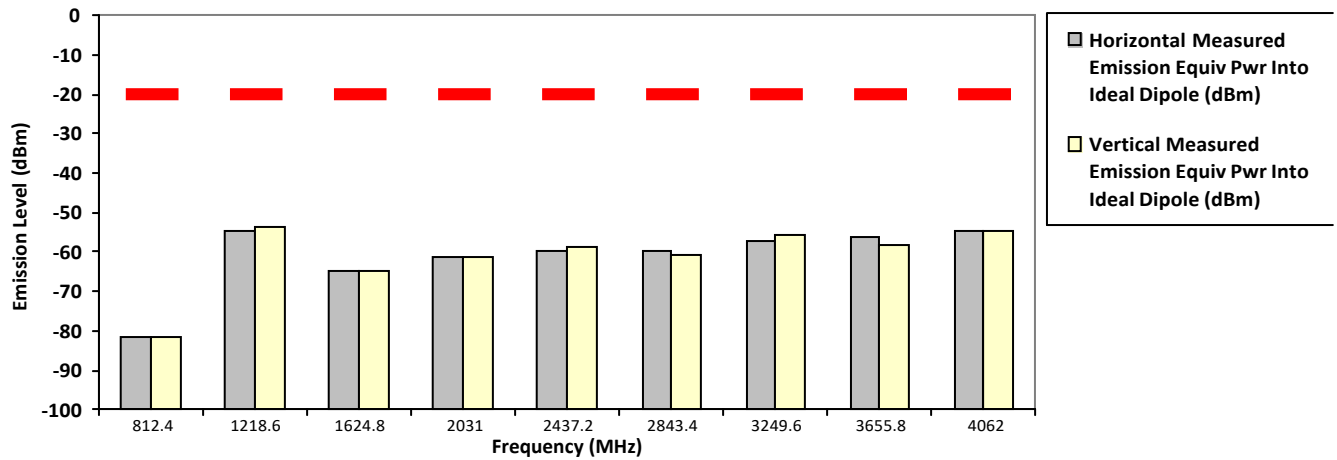
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Digital
406.200000 MHz **12.5 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
812.4000	-20.0000	-81.4887 **	-81.6929 **
1218.6000	-20.0000	-54.7400 *	-53.8600 *
1624.8000	-20.0000	-64.7164 **	-64.6940 **
2031.0000	-20.0000	-61.4795 **	-61.5700 **
2437.2000	-20.0000	-59.9744 **	-58.6803 **
2843.4000	-20.0000	-59.7633 **	-60.6458 **
3249.6000	-20.0000	-57.2929 **	-55.5766 **
3655.8000	-20.0000	-56.2556 **	-58.2436 **
4062.0000	-20.0000	-54.9147 **	-54.7852 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

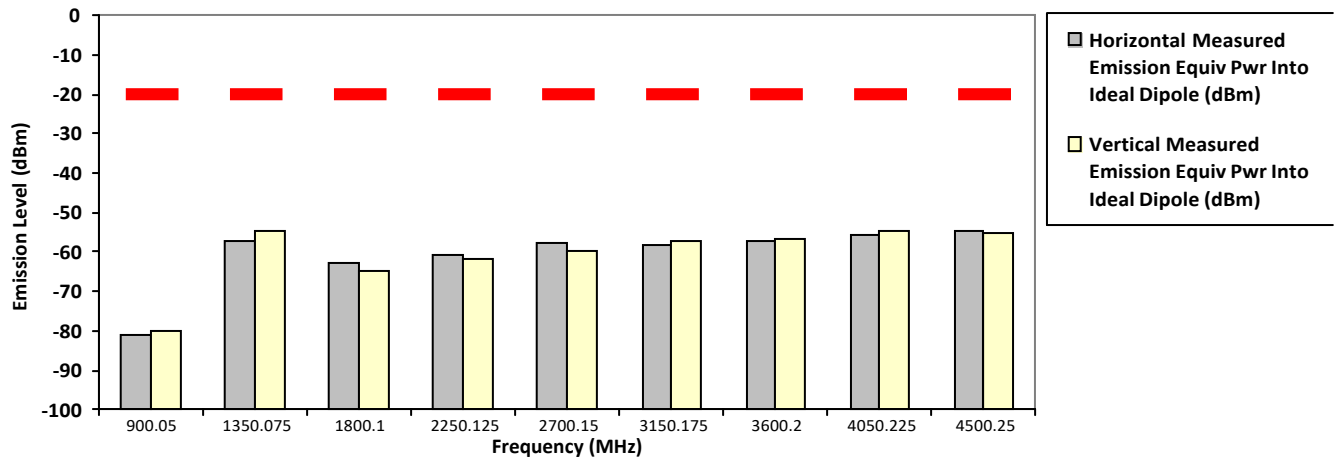
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Digital
450.025000 MHz **12.5 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
900.0500	-20.0000	-80.9259 **	-80.0227 **
1350.0750	-20.0000	-57.0400 *	-54.7000 *
1800.1000	-20.0000	-62.6620 **	-64.9202 **
2250.1250	-20.0000	-60.6287 **	-61.8484 **
2700.1500	-20.0000	-57.9436 **	-60.0281 **
3150.1750	-20.0000	-58.1964 **	-57.5124 **
3600.2000	-20.0000	-57.4335 **	-56.8733 **
4050.2250	-20.0000	-55.7576 **	-54.9812 **
4500.2500	-20.0000	-54.7582 **	-55.2577 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

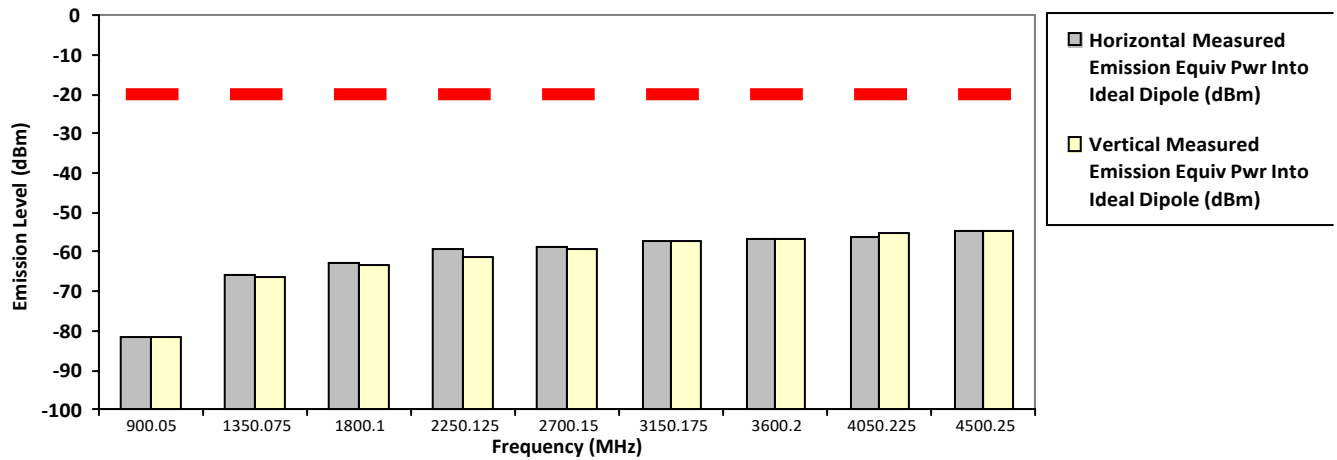
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Digital
450.025000 MHz **12.5 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
900.0500	-20.0000	-81.5284 **	-81.6968 **
1350.0750	-20.0000	-65.8337 **	-66.3763 **
1800.1000	-20.0000	-62.6329 **	-63.5155 **
2250.1250	-20.0000	-59.4746 **	-61.1773 **
2700.1500	-20.0000	-58.9689 **	-59.0527 **
3150.1750	-20.0000	-57.1904 **	-57.0283 **
3600.2000	-20.0000	-56.8536 **	-56.8363 **
4050.2250	-20.0000	-56.5020 **	-55.1860 **
4500.2500	-20.0000	-54.8459 **	-54.9899 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

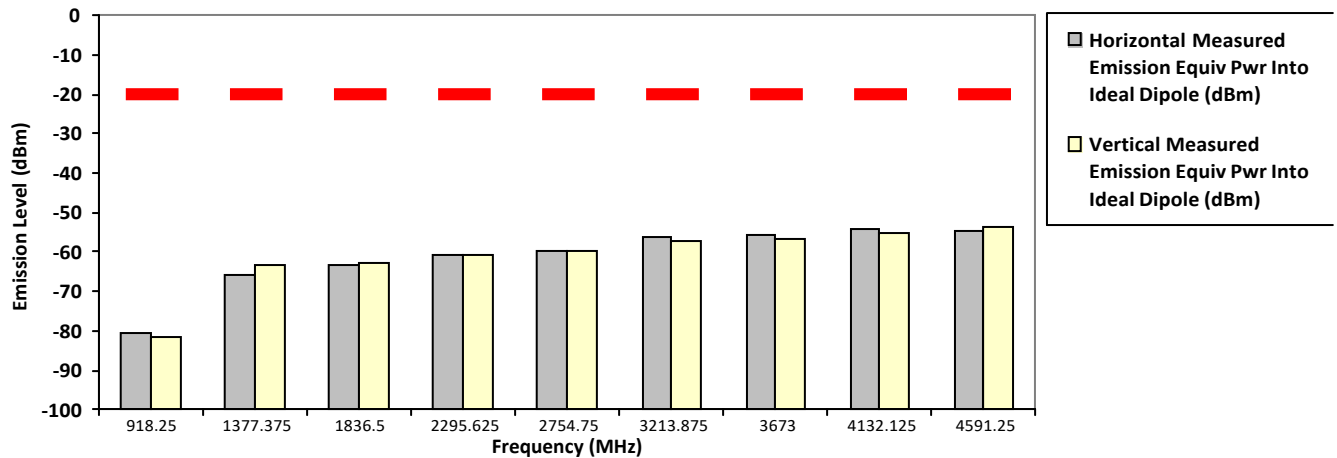
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Digital
459.125000 MHz **12.5 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
918.2500	-20.0000	-80.6685 **	-81.6261 **
1377.3750	-20.0000	-65.6839 **	-63.4908 **
1836.5000	-20.0000	-63.4041 **	-62.7453 **
2295.6250	-20.0000	-61.0515 **	-60.9708 **
2754.7500	-20.0000	-59.7964 **	-60.0170 **
3213.8750	-20.0000	-56.1433 **	-57.1661 **
3673.0000	-20.0000	-55.8494 **	-56.9466 **
4132.1250	-20.0000	-54.3985 **	-55.0974 **
4591.2500	-20.0000	-54.5056 **	-53.8605 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

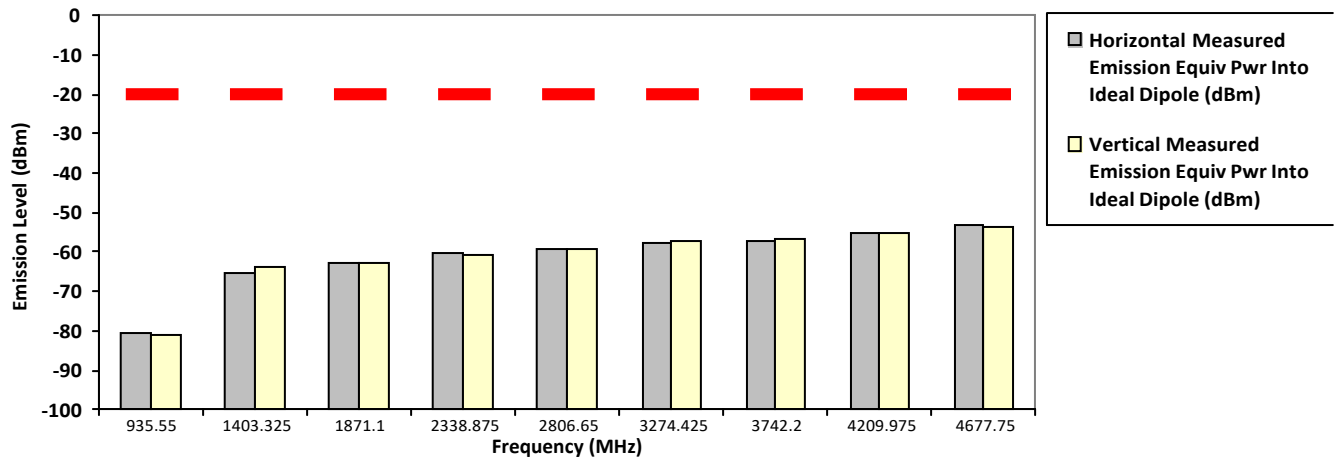
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Digital
467.775000 MHz **12.5 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
935.5500	-20.0000	-80.8231 **	-81.0299 **
1403.3250	-20.0000	-65.4825 **	-64.0437 **
1871.1000	-20.0000	-62.9051 **	-62.7808 **
2338.8750	-20.0000	-60.3961 **	-60.8579 **
2806.6500	-20.0000	-59.1125 **	-59.1687 **
3274.4250	-20.0000	-57.5559 **	-57.3455 **
3742.2000	-20.0000	-57.1443 **	-56.6191 **
4209.9750	-20.0000	-55.0605 **	-55.2558 **
4677.7500	-20.0000	-53.3276 **	-53.4735 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

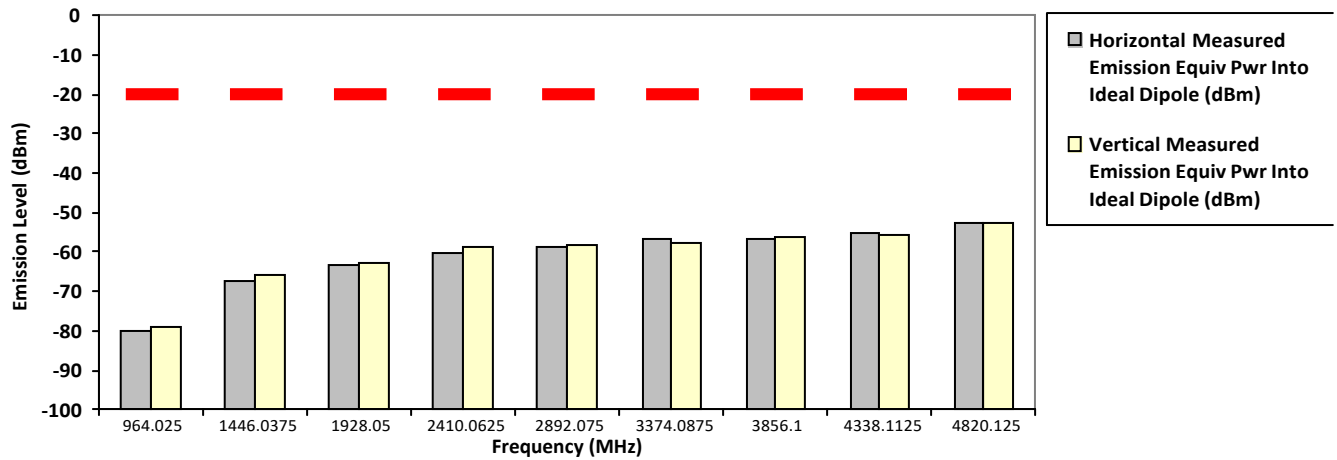
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Digital
482.012500 MHz **12.5 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
964.0250	-20.0000	-79.9242 **	-79.0001 **
1446.0375	-20.0000	-67.5142 **	-65.7943 **
1928.0500	-20.0000	-63.3353 **	-62.9860 **
2410.0625	-20.0000	-60.3759 **	-58.6424 **
2892.0750	-20.0000	-58.8401 **	-58.4380 **
3374.0875	-20.0000	-56.7420 **	-57.5978 **
3856.1000	-20.0000	-56.7866 **	-56.1848 **
4338.1125	-20.0000	-55.4552 **	-55.7418 **
4820.1250	-20.0000	-52.5722 **	-52.5846 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

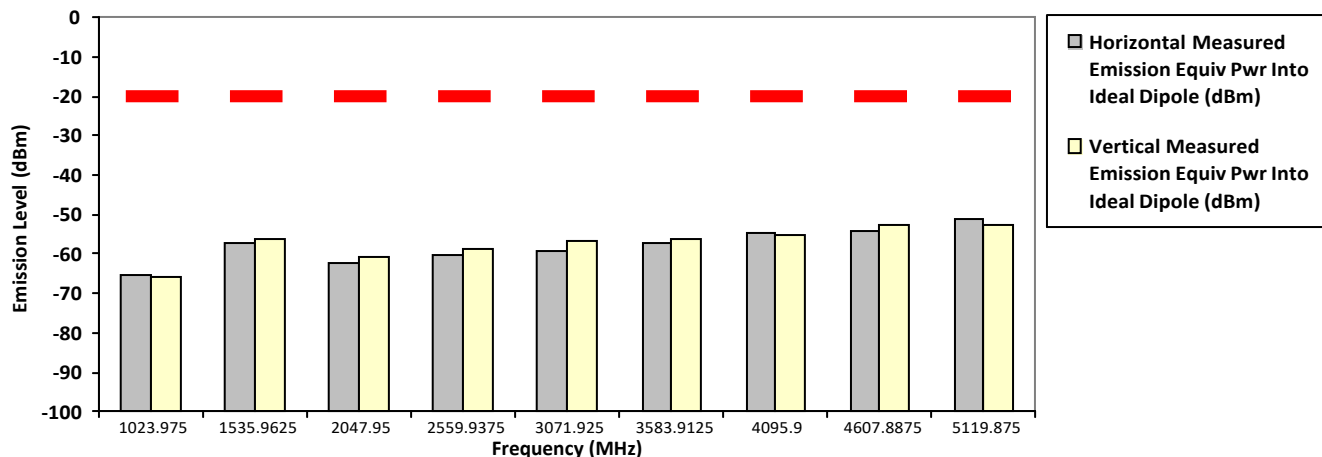
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Digital
511.987500 MHz **12.5 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
1023.9750	-20.0000	-65.6423 **	-66.0517 **
1535.9625	-20.0000	-57.0600 *	-56.4200 *
2047.9500	-20.0000	-62.5001 **	-61.0575 **
2559.9375	-20.0000	-60.1355 **	-58.7340 **
3071.9250	-20.0000	-59.2218 **	-56.6481 **
3583.9125	-20.0000	-57.0781 **	-56.3670 **
4095.9000	-20.0000	-54.9912 **	-55.1548 **
4607.8875	-20.0000	-54.3523 **	-52.7200 **
5119.8750	-20.0000	-51.3264 **	-52.5322 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

System MU: 4.03 dB

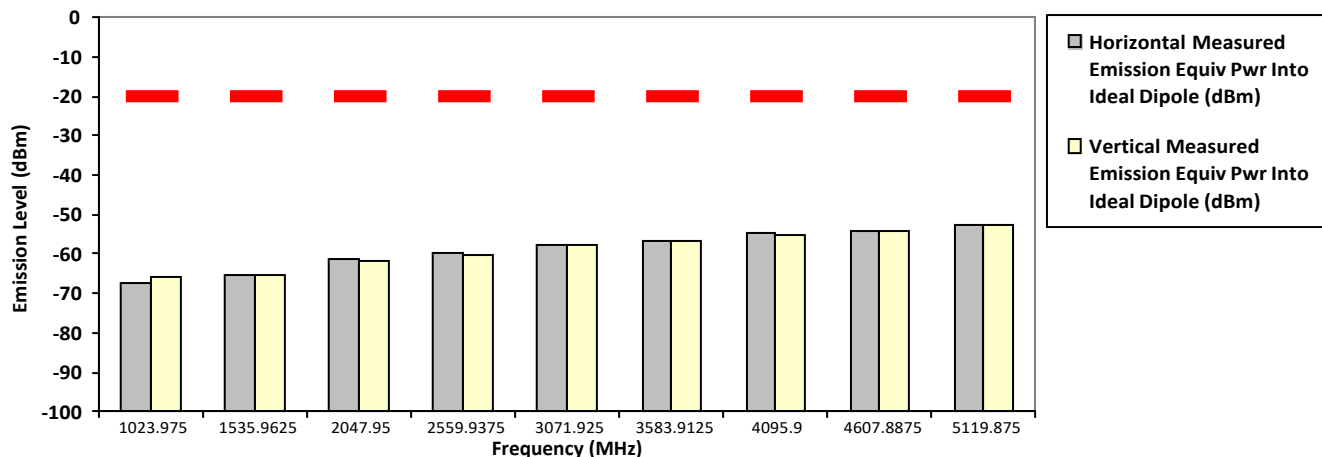
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Digital
511.987500 MHz **12.5 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
1023.9750	-20.0000	-67.3036 **	-66.0650 **
1535.9625	-20.0000	-65.4840 **	-65.5816 **
2047.9500	-20.0000	-61.5485 **	-61.7967 **
2559.9375	-20.0000	-59.8521 **	-60.2453 **
3071.9250	-20.0000	-57.9165 **	-57.7902 **
3583.9125	-20.0000	-56.7770 **	-56.6403 **
4095.9000	-20.0000	-54.7490 **	-55.3363 **
4607.8875	-20.0000	-54.0443 **	-54.1215 **
5119.8750	-20.0000	-52.9121 **	-52.8597 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

System MU: 4.03 dB

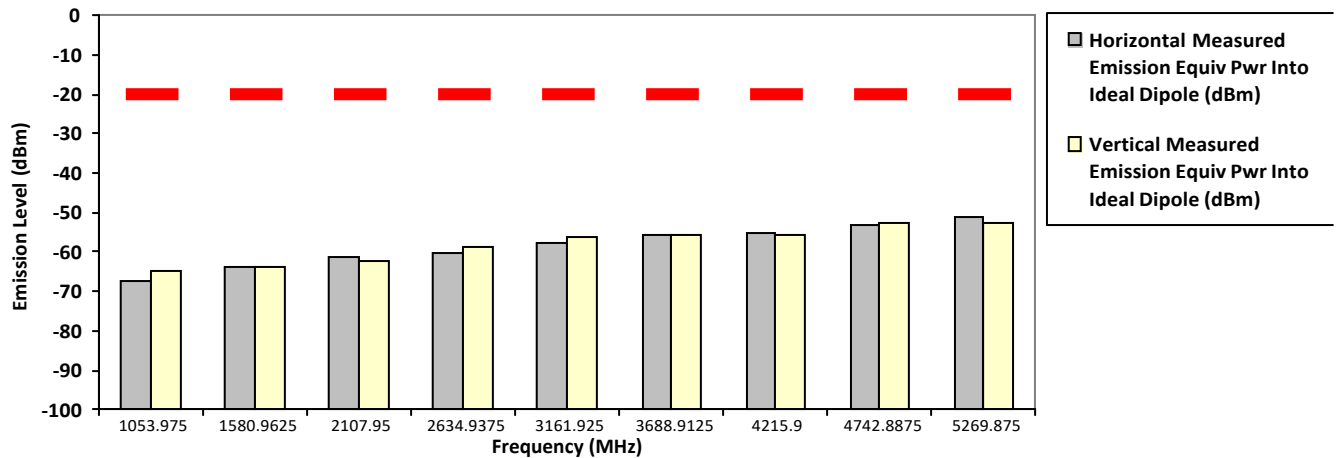
Remarks:

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

SAC Transmitter Radiated Emission:
Model Number: AAH06RDN9RA1AN **S/N: 865TXP0010** **SR:22639-EMC-00111**
Battery Part No: PMNN4810A **Accy Part No: NA**
Test Mode: TX Digital
526.987500 MHz(Not for FCC review) **12.5 kHz** **4.800 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measure d Emission Equip Pwr Into Ideal Dipole (dBm)	Vertical Me asured Emission Equip Pwr Into ideal Dipole (dBm)
1053.9750	-20.0000	-67.1838 **	-64.7267 **
1580.9625	-20.0000	-63.8936 **	-64.0262 **
2107.9500	-20.0000	-61.1986 **	-62.4802 **
2634.9375	-20.0000	-60.1773 **	-59.0191 **
3161.9250	-20.0000	-58.0241 **	-56.3748 **
3688.9125	-20.0000	-55.6090 **	-55.7237 **
4215.9000	-20.0000	-55.3309 **	-55.5550 **
4742.8875	-20.0000	-52.9848 **	-52.5021 **
5269.8750	-20.0000	-51.3468 **	-52.8029 **

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: Qaw iman&Nazrin Sat, 31 Jul, 2021

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): 24.1 Hum(%RH): 70.1

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

6.11.4. Test Limit

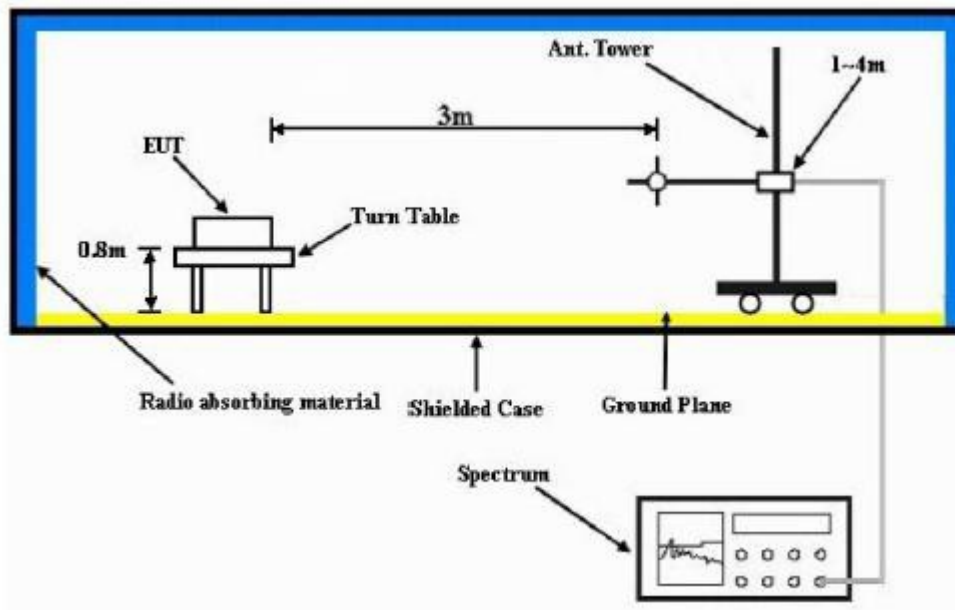
Table below summarized the power of any emission outside a licensee’s frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz		Not Applicable		43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz	Not Applicable	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

6.12. Effective Radiated Power (ERP)

6.12.1. Test Setup



- 1) The Resolution Bandwidth for Equivalent Radiated Power (ERP) below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for EIRP above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector Mode is RMS.
- 2) In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height (for $f_c < 1\text{GHz}$) or 1.5m (for $f_c > 1\text{GHz}$) of Turn Table, rotated the table 45 degree each interval 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 for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 3) The substitution antenna is substituted for DUT 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.

6.12.2. Test Result

Max radio power for part 80 = 2W

Frequency: 467.775MHz

Based on max antenna gain of 0dBi and no losses the ERP is calculated as below

$2\text{W}(33\text{dBm}) + (-2.15\text{dBd}) = 30.85\text{dBm} = 1.216\text{W ERP}$.

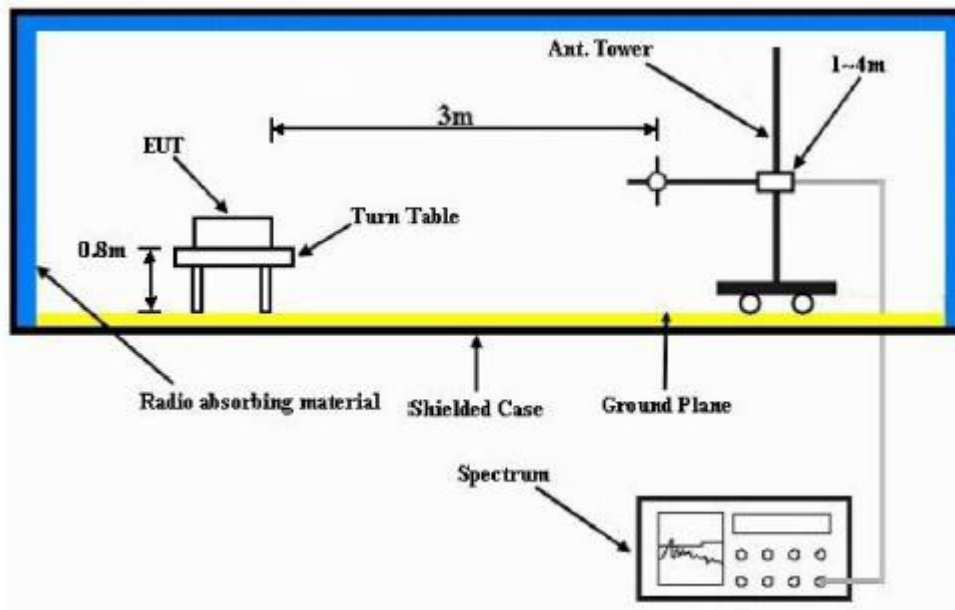
Based on Antenna :PMAE4079A (Gain=0dBi)

6.12.3. Test Limit

The maximum output power of the transmitter for Part 80 is 2W ERP.

6.13. GNSS (EIRP for 1559 - 1610MHz)

6.13.1. Test Setup



- 4) The Resolution Bandwidth for Equivalent Isotropically Radiated Power (EIRP) below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for EIRP above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector Mode is RMS.
- 5) In the semi- anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval 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 for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 6) The substitution antenna is substituted for DUT 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.
- 7) $EIRP = \text{“Read Value”} + \text{Measured substitution value} + 2.15$.

6.13.1. Test Result

Not Applicable.

6.13.2. Test Limit

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

~ End of Test Report ~