MOTOROLA SOLUTIONS

MS ISO/IEC 17025
TESTING
SAMM No. 0825

MOTOROLA PENANG ADV. COMM. LABORATORY
Motorola Solutions Malaysia SDN BHD,
Innoplex, Plot 2A, Medan Bayan Lepas,
Mukim 12 S.W.D, 11900 Bayan Lepas,
Penang, Malaysia.

FCC / ISED TEST REPORT
Report Revision : Rev.B

Date/s Tested	:	31-May-2019 - 1-June-2019
Manufacturer	:	Motorola Solutions Penang
Manufacturer Address	:	Motorola Solutions Malaysia SDN BHD Innoplex, Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D, 11900 Bayan Lepas, Penang, Malaysia
Requestor	:	Teik Hang Lee
Product Type	:	Portable
Model Number	:	EVX-261-D0-5
Frequency Band	:	136 to 174 MHz
Firmware Version	:	CPU/DSP: 1.13 / 1.18
Rated / Max RF Output Power	:	5 Watts / 5.5 Watts
Applicant Name	:	Motorola Solution Inc
ISED Registrations	:	MY0001
FCC Registrations	:	461337

The equipment was tested accordance to the requirement listed below:

(LMR) FCC 47 CFR (Part 90 / IC RSS 119)	**PASS**

Prepared By:

Mohd Helmy Shamsuddin
Technician

Approved By:

Ho Sze Khian
Responsible Engineer

Table of Contents

1.0. General Information

EUT Description:

Technologies	LMR
Modulation Type	Analog (FM) and Digital (TDMA)

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
MSI EVX-261-D0-5 136-174MHZ	MOTOROLA	AC137N501
HI-CAP 2300 mAh Li-ion Battery	MOTOROLA	FNB-V134LI-UNI

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

ANSI C63.26.2015
ANSI C63.4.2014

2.0. Summary of Test Results

FCC General Rules Part (47CFR)	IC General Rules Part	Test Item	Result	Remark
90.210	RSS-Gen, RSS-119	Conducted Spurious Emissions	NA	NA
90.210	RSS-Gen, RSS-119	Radiated Spurious Emission	Pass	NA

NA → Not Applicable

3.0. Measurement Uncertainty

Measurement	Frequency	Expended Uncertainty (k=1.96) (±)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.43
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	5.01
	200MHz ~ 1000MHz	5.01
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.01
	18GHz ~ 25GHz	5.01
Conducted Spurious Emissions	9kHz ~ 12.75GHz	2.82

4.0. Equipment List

Conducted Spur Emission Ate # 1

NOT APPLICABLE

Radiated Emission Station

EMC Chamber 1

DESCRIPTION	MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
DRG HORN FREQ.	SAS-571	719	18-Jul-17	18-Jul-19
DRG HORN FREQ.	SAS-571	1143	14-Feb-19	14-Feb-21
POWER SUPPLY	6032A	2615A-01178	13-Jun-18	13-Jun-19
SIGNAL GENERATOR	SMB 100A	181117	8-Nov-18	8-Nov-21
EMI TEST RECEIVER	ESW44	101750	25-Jun-18	25-Jun-19
5m Semi-anechoic Chamber	S800-HX	J2308	No Cal. Req'd	No Cal. Req'd
BILOG ANTENNA	CBL6112D	30991	23-Apr-18	23-Jul-19
BILOG ANTENNA	CBL6112B	2964	16-Feb-18	16-Feb-20
DATA LOGGER	SDL500	A.016800	19-Mar-19	18-Mar-20
SYSTEM CONTROLLER	SC104V	050806-1	No Cal. Req'd	No Cal. Req'd
TURNTABLE FLUSH MOUNT 2M	FM2011	NA	No Cal. Req'd	No Cal. Req'd
ANTENNA POSITIONING TOWER	TLT2	NA	No Cal. Req'd	No Cal. Req'd
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170255	21-Dec-18	21-Dec-19
18 - 40GHz PREAMPLIFIER	Miteq Hi Gain Sucoflex	001	No Cal. Req'd	No Cal. Req'd
PREAMPLIFIER	PAM-0118P	361	No Cal. Req'd	No Cal. Req'd
LOOP ANTENNA	6502	00208416	17-Aug-18	17-Aug-19
Test Software	EMC_FCC_IC_Bluetooth_RE_Test			
Version	EMC_FCC_RE_v1.5.2			

AC Power Line Conducted Spurious Emission

NOT APPLICABLE

4.1. Test Condition

4.1 Transmitter Test Conditions

Test Item, (Channel Spacing)	Temperature (°C)	Voltage Supply (V)	Power (W)	Modulation	Test Frequency (MHz)
Conducted Spurious Output Power (12.5kHz and 25.0kHz)	25°C	Nominal	Max	Analog	NA
Radiated Spurious Output Power (12.5kHz and 25.0kHz)	25°C	Nominal	Max	Analog	L, M, H
AC Power Line Conducted Spurious Emissions (12.5kHz and 25.0kHz)	25°C	Nominal	Max	Analog	NA

NA → Not Applicable

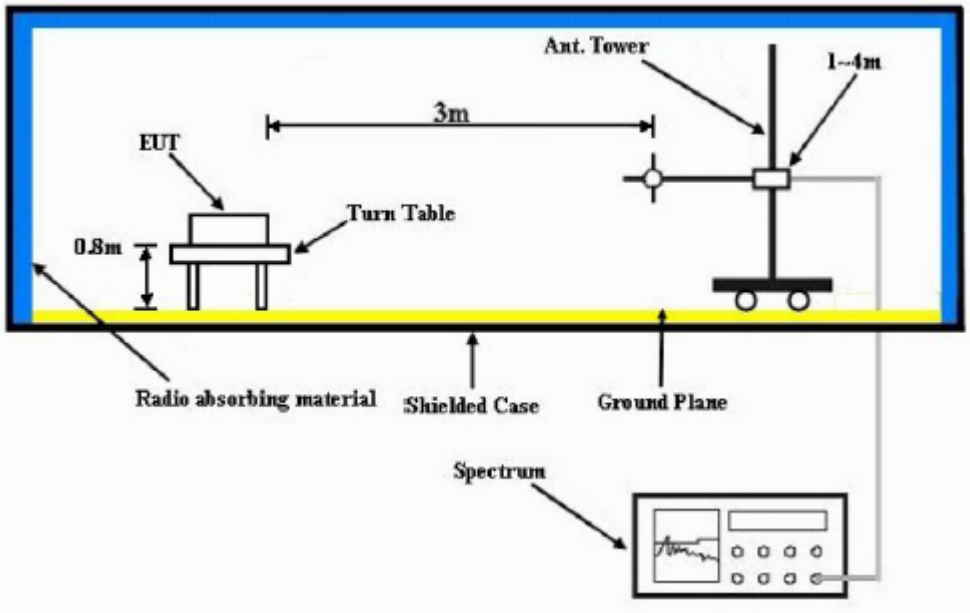
5.0. Receiver Test Parameters

5.1. Conducted Spurious Output Power

NOT APPLICABLE

5.2. Radiated Spurious Output Power

5.2.1. 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 0.8m height 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 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.

Test Result

Motorola Solutions.

FCC ID: AXI11373020
IC ID: 109U-89FT3839

SAC Transmitter Radiated Emission:

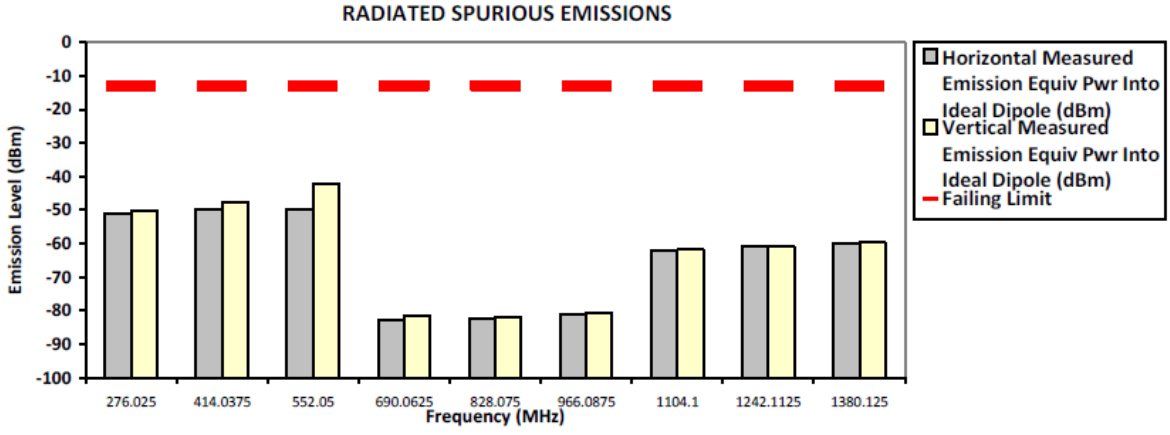
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Analog

138.012500 MHz **25 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
276.0250	-13.0000	-51.0600 *	-50.3400 *
414.0375	-13.0000	-49.6700 *	-47.8400 *
552.0500	-13.0000	-49.8200 *	-42.2800 *
690.0625	-13.0000	-82.7999 **	-81.6220 **
828.0750	-13.0000	-82.5263 **	-81.9874 **
966.0875	-13.0000	-81.2145 **	-80.5098 **
1104.1000	-13.0000	-62.0568 **	-61.7907 **
1242.1125	-13.0000	-60.7648 **	-60.9373 **
1380.1250	-13.0000	-59.7757 **	-59.6550 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

Motorola Solutions.

SAC Transmitter Radiated Emission:

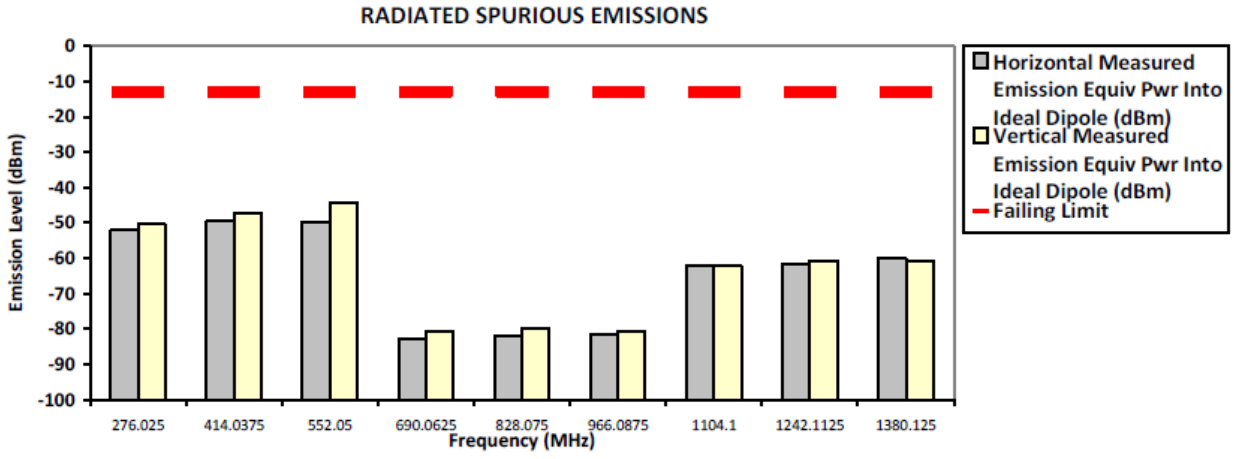
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Analog

138.012500 MHz **25 kHz** **5.500 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)
276.0250	-13.0000	-52.0200 *	-50.4400 *
414.0375	-13.0000	-49.4500 *	-47.2800 *
552.0500	-13.0000	-49.6900 *	-44.4500 *
690.0625	-13.0000	-82.6438 **	-80.8300 **
828.0750	-13.0000	-81.8406 **	-79.9683 **
966.0875	-13.0000	-81.3548 **	-80.5789 **
1104.1000	-13.0000	-61.9134 **	-62.2408 **
1242.1125	-13.0000	-61.4840 **	-60.7372 **
1380.1250	-13.0000	-60.0090 **	-60.8209 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

FCC ID: AXI11373020
IC ID: 109U-89FT3839

Motorola Solutions.

SAC Transmitter Radiated Emission:

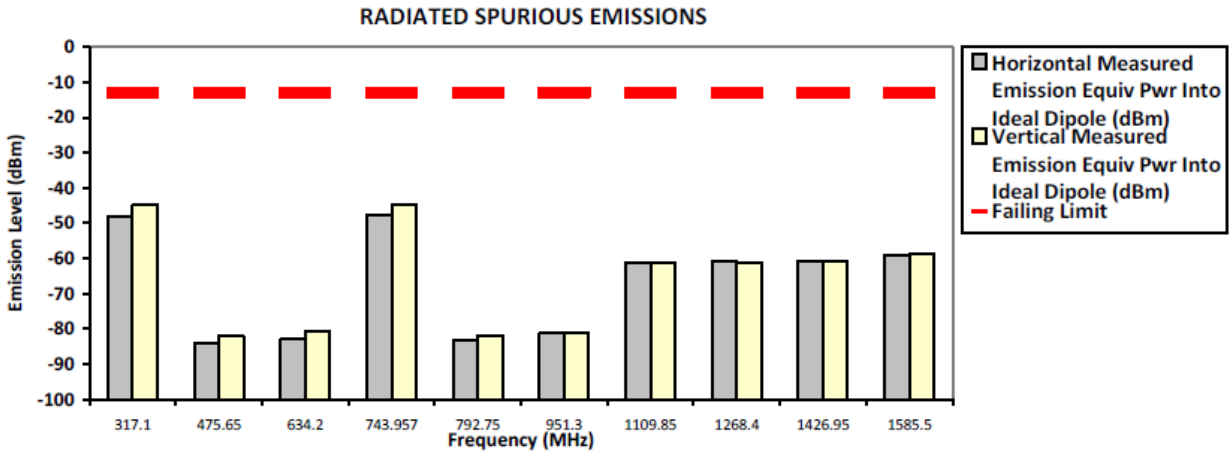
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Analog

158.550000 MHz **25 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
317.1000	-13.0000	-48.2800 *	-44.8200 *
475.6500	-13.0000	-83.9186 **	-82.0206 **
634.2000	-13.0000	-82.9651 **	-80.6638 **
743.9570	-13.0000	-47.6400 *	-44.7800 *
792.7500	-13.0000	-83.1151 **	-81.9145 **
951.3000	-13.0000	-81.2314 **	-81.1836 **
1109.8500	-13.0000	-61.3767 **	-61.3904 **
1268.4000	-13.0000	-60.7786 **	-61.2096 **
1426.9500	-13.0000	-60.6034 **	-60.8424 **
1585.5000	-13.0000	-59.1683 **	-58.5567 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

Motorola Solutions.

FCC ID: AXI11373020
IC ID: 109U-89FT3839

SAC Transmitter Radiated Emission:

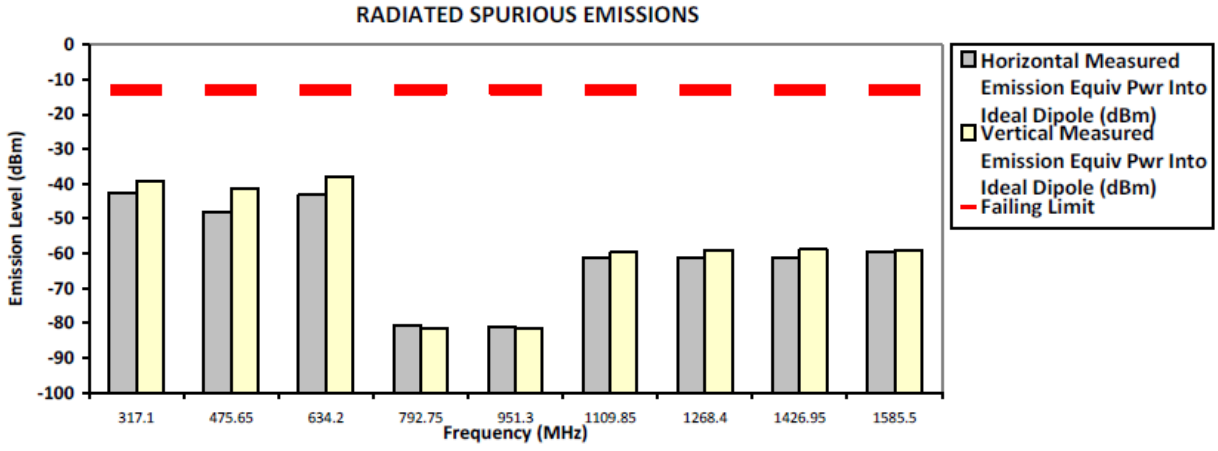
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Analog

158.550000 MHz **25 kHz** **5.500 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)
317.1000	-13.0000	-42.6300 *	-39.1200 *
475.6500	-13.0000	-48.0100 *	-41.1400 *
634.2000	-13.0000	-43.1900 *	-37.9200 *
792.7500	-13.0000	-80.6396 **	-81.3294 **
951.3000	-13.0000	-81.0460 **	-81.5576 **
1109.8500	-13.0000	-61.3148 **	-59.7048 **
1268.4000	-13.0000	-61.0699 **	-59.0857 **
1426.9500	-13.0000	-61.3475 **	-58.8603 **
1585.5000	-13.0000	-59.6889 **	-58.9965 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

Motorola Solutions.

SAC Transmitter Radiated Emission:

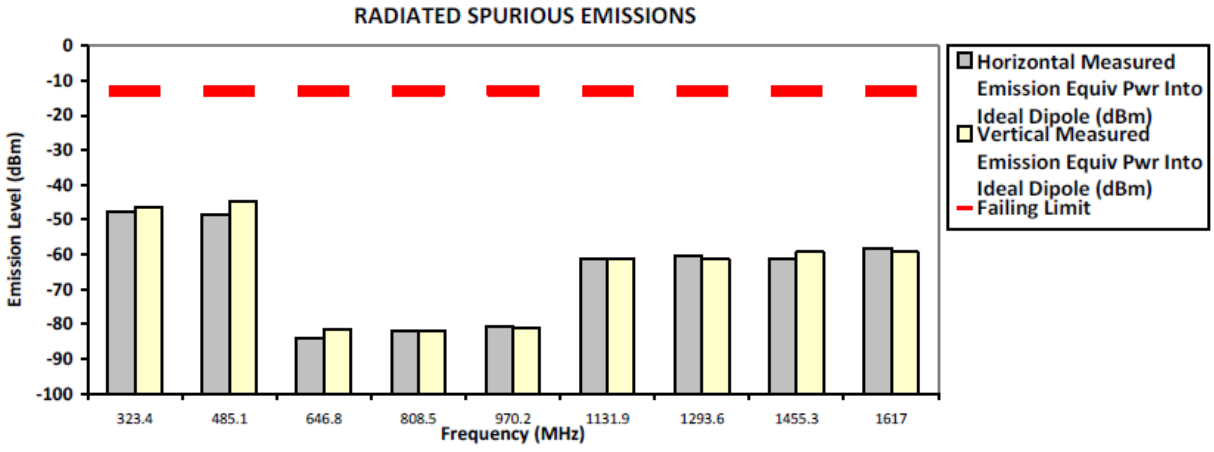
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Analog

161.700000 MHz **25 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
323.4000	-13.0000	-47.6300 *	-46.3300 *
485.1000	-13.0000	-48.5800 *	-44.8800 *
646.8000	-13.0000	-84.0264 **	-81.4630 **
808.5000	-13.0000	-81.9970 **	-81.8900 **
970.2000	-13.0000	-80.7797 **	-81.2625 **
1131.9000	-13.0000	-61.3075 **	-60.9981 **
1293.6000	-13.0000	-60.4504 **	-61.2614 **
1455.3000	-13.0000	-61.0108 **	-59.2271 **
1617.0000	-13.0000	-58.0566 **	-59.2643 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

Motorola Solutions.

FCC ID: AXI11373020
IC ID: 109U-89FT3839

SAC Transmitter Radiated Emission:

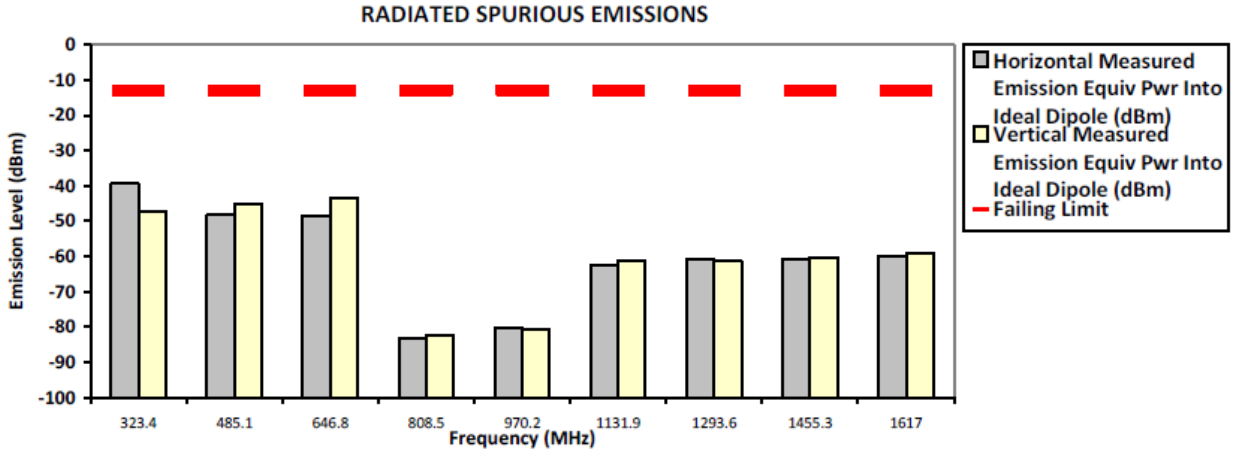
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Analog

161.700000 MHz **25 kHz** **5.500 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)
323.4000	-13.0000	-39.4200 *	-47.3800 *
485.1000	-13.0000	-48.2400 *	-45.1500 *
646.8000	-13.0000	-48.3800 *	-43.6700 *
808.5000	-13.0000	-83.0778 **	-82.3895 **
970.2000	-13.0000	-80.0692 **	-80.7104 **
1131.9000	-13.0000	-62.5381 **	-61.3040 **
1293.6000	-13.0000	-60.8781 **	-61.2795 **
1455.3000	-13.0000	-60.7579 **	-60.2631 **
1617.0000	-13.0000	-59.7383 **	-59.1118 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

FCC ID: AXI11373020
IC ID: 109U-89FT3839

Motorola Solutions.

SAC Transmitter Radiated Emission:

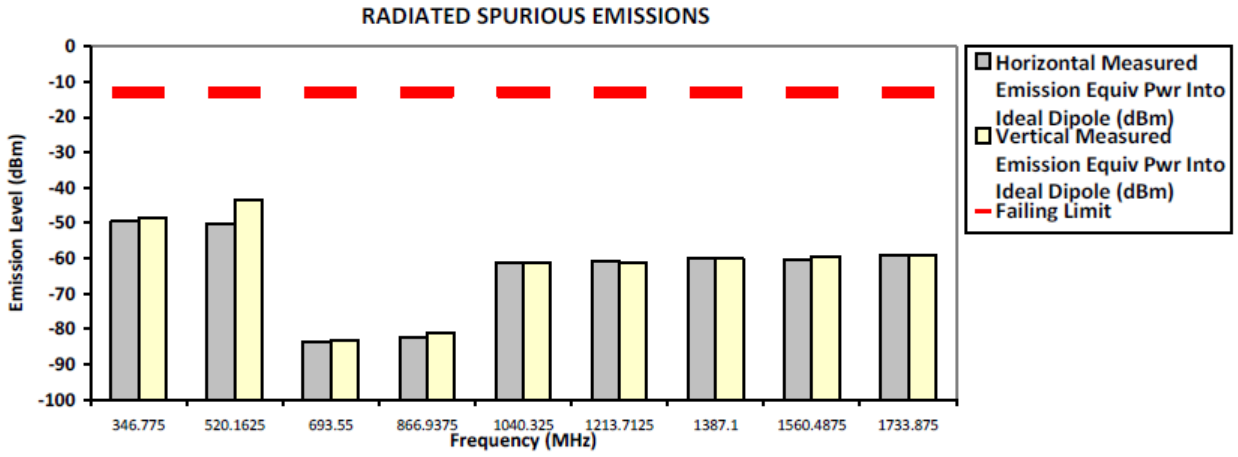
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Analog

173.387500 MHz **25 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
346.7750	-13.0000	-49.5400 *	-48.4500 *
520.1625	-13.0000	-50.1300 *	-43.3200 *
693.5500	-13.0000	-83.6388 **	-83.3982 **
866.9375	-13.0000	-82.2888 **	-81.1234 **
1040.3250	-13.0000	-61.2443 **	-60.9980 **
1213.7125	-13.0000	-60.9603 **	-61.4020 **
1387.1000	-13.0000	-59.7483 **	-60.0325 **
1560.4875	-13.0000	-60.1483 **	-59.3923 **
1733.8750	-13.0000	-59.0764 **	-58.8892 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: **5.01** dB

Remarks: Passed Results | Marginal Results | Failed Results

FCC ID: AXI11373020
IC ID: 109U-89FT3839

Motorola Solutions.

SAC Transmitter Radiated Emission:

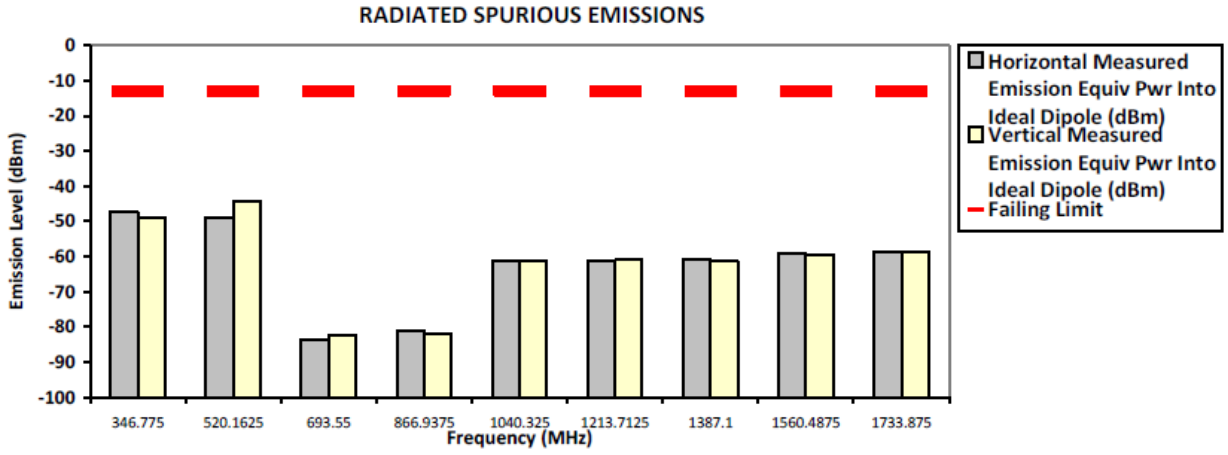
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Analog

173.387500 MHz **25 kHz** **5.500 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)
346.7750	-13.0000	-47.3500 *	-48.9100 *
520.1625	-13.0000	-48.7800 *	-44.2900 *
693.5500	-13.0000	-83.4988 **	-82.2964 **
866.9375	-13.0000	-81.0734 **	-82.0713 **
1040.3250	-13.0000	-61.0028 **	-61.2224 **
1213.7125	-13.0000	-61.0325 **	-60.9599 **
1387.1000	-13.0000	-60.9145 **	-61.2962 **
1560.4875	-13.0000	-59.0628 **	-59.3289 **
1733.8750	-13.0000	-58.7881 **	-58.5411 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: **5.01** dB

Remarks: Passed Results | Marginal Results | Failed Results

FCC ID: AXI11373020
IC ID: 109U-89FT3839

Motorola Solutions.

SAC Transmitter Radiated Emission:

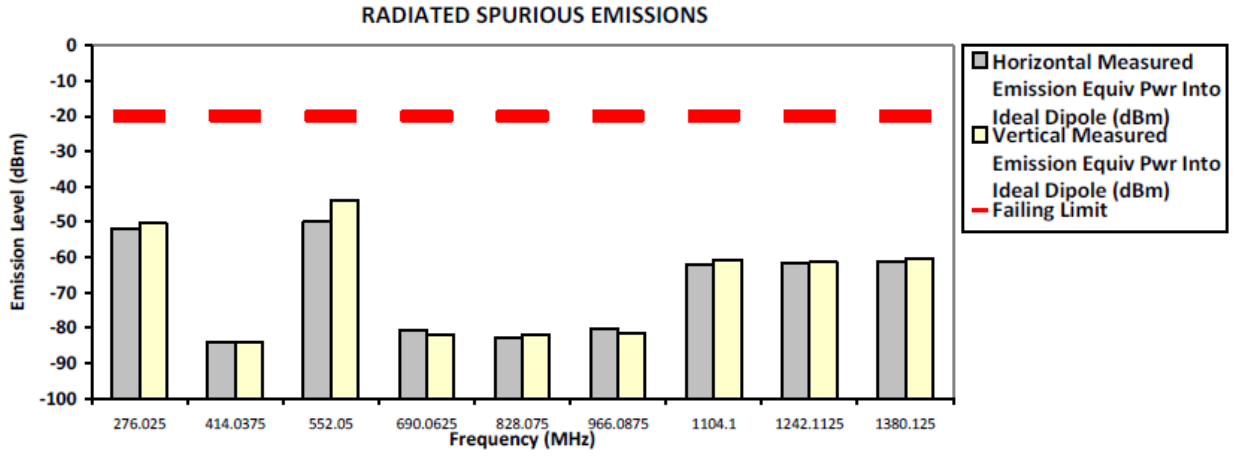
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Digital

138.012500 MHz **12.5 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
276.0250	-20.0000	-51.7800 *	-50.4600 *
414.0375	-20.0000	-84.0556 **	-84.0617 **
552.0500	-20.0000	-49.9000 *	-43.8100 *
690.0625	-20.0000	-80.6984 **	-81.7482 **
828.0750	-20.0000	-82.5721 **	-81.9081 **
966.0875	-20.0000	-80.0963 **	-81.4798 **
1104.1000	-20.0000	-61.9634 **	-60.6866 **
1242.1125	-20.0000	-61.7653 **	-61.4137 **
1380.1250	-20.0000	-61.0580 **	-60.4054 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

FCC ID: AXI11373020
IC ID: 109U-89FT3839

Motorola Solutions.

SAC Transmitter Radiated Emission:

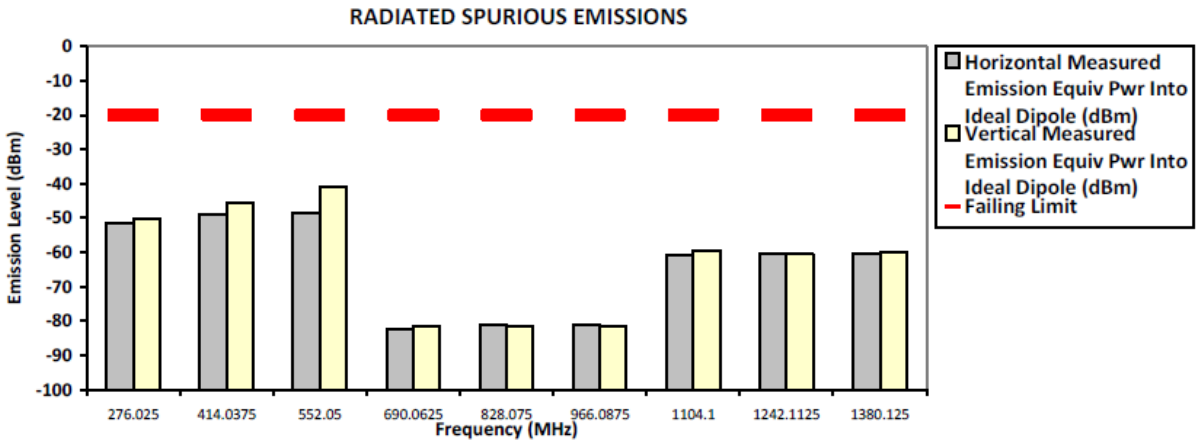
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Digital

138.012500 MHz **12.5 kHz** **5.500 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)
276.0250	-20.0000	-51.3400 *	-50.1300 *
414.0375	-20.0000	-48.9300 *	-45.4100 *
552.0500	-20.0000	-48.4700 *	-41.1100 *
690.0625	-20.0000	-82.3399 **	-81.5208 **
828.0750	-20.0000	-80.9968 **	-81.5660 **
966.0875	-20.0000	-80.9231 **	-81.3158 **
1104.1000	-20.0000	-60.6673 **	-59.4829 **
1242.1125	-20.0000	-60.4207 **	-60.4307 **
1380.1250	-20.0000	-60.5611 **	-59.9575 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

FCC ID: AXI11373020
IC ID: 109U-89FT3839

Motorola Solutions.

SAC Transmitter Radiated Emission:

Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

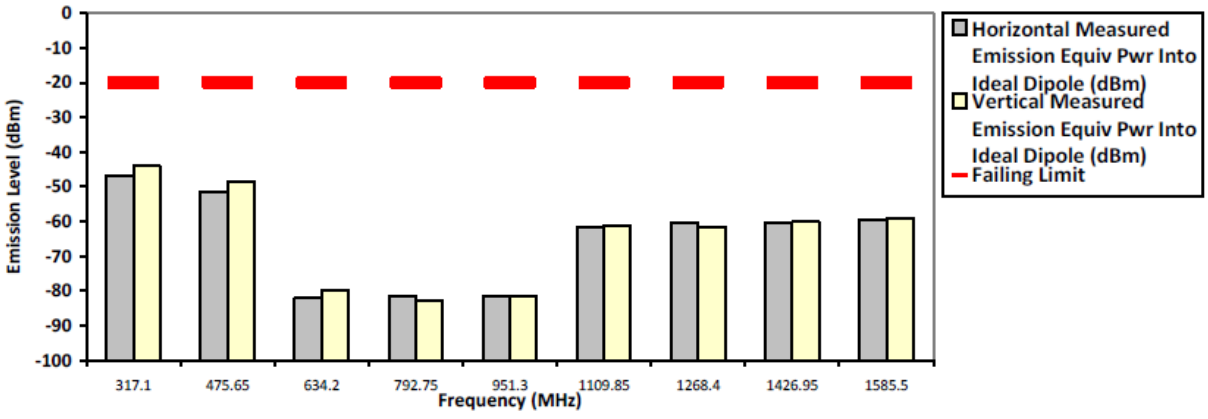
Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Digital

158.550000 MHz **12.5 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
317.1000	-20.0000	-46.6600 *	-44.0500 *
475.6500	-20.0000	-51.3500 *	-48.4000 *
634.2000	-20.0000	-82.1198 **	-79.9391 **
792.7500	-20.0000	-81.4319 **	-82.5754 **
951.3000	-20.0000	-81.4030 **	-81.5871 **
1109.8500	-20.0000	-61.7723 **	-60.9957 **
1268.4000	-20.0000	-60.4103 **	-61.5662 **
1426.9500	-20.0000	-60.3279 **	-60.0580 **
1585.5000	-20.0000	-59.5817 **	-59.0045 **

RADIATED SPURIOUS EMISSIONS



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: **5.01** dB

Remarks: Passed Results | Marginal Results | Failed Results

Motorola Solutions.

FCC ID: AXI11373020
IC ID: 109U-89FT3839

SAC Transmitter Radiated Emission:

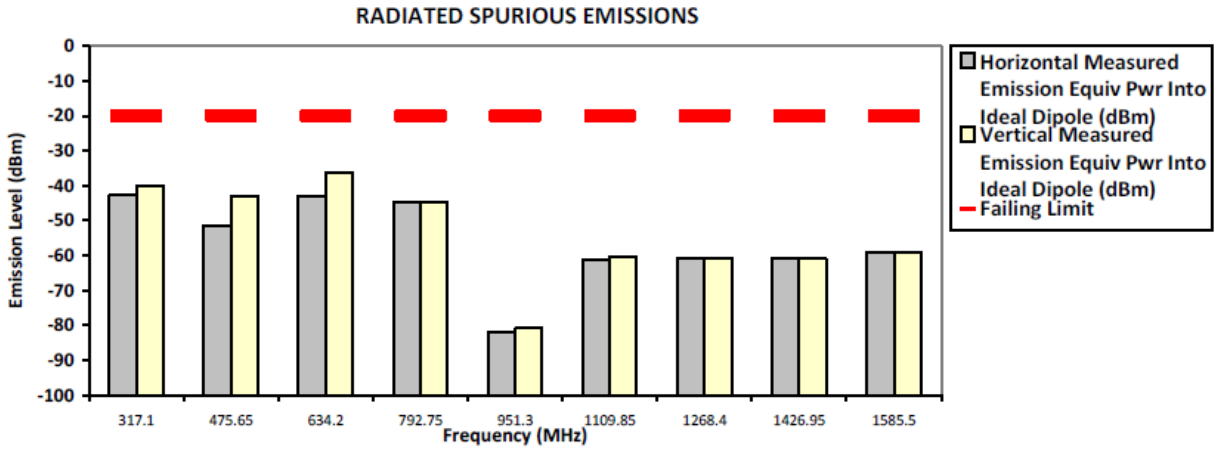
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Digital

158.550000 MHz **12.5 kHz** **5.500 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)
317.1000	-20.0000	-42.7800 *	-39.9100
475.6500	-20.0000	-51.4600 *	-43.0700 *
634.2000	-20.0000	-42.9000 *	-36.3500
792.7500	-20.0000	-44.9400 *	-44.7600 *
951.3000	-20.0000	-81.8532 **	-80.7928 **
1109.8500	-20.0000	-61.3961 **	-60.4641 **
1268.4000	-20.0000	-60.6057 **	-60.7971 **
1426.9500	-20.0000	-60.8229 **	-60.9497 **
1585.5000	-20.0000	-58.8762 **	-59.0103 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

FCC ID: AXI11373020
IC ID: 109U-89FT3839

Motorola Solutions.

SAC Transmitter Radiated Emission:

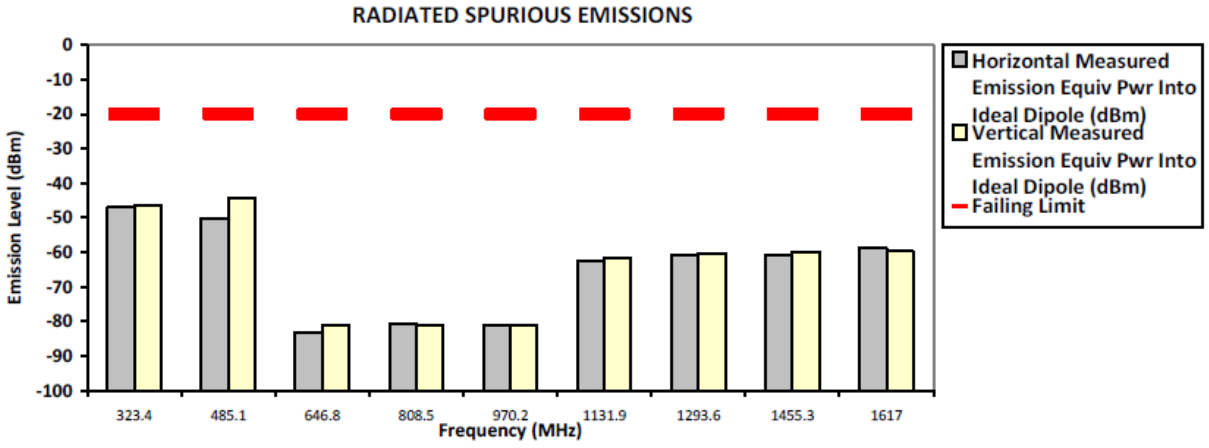
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Digital

161.700000 MHz **12.5 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
323.4000	-20.0000	-47.0100 *	-46.5300 *
485.1000	-20.0000	-50.0600 *	-44.4100 *
646.8000	-20.0000	-83.1525 **	-80.8701 **
808.5000	-20.0000	-80.6670 **	-80.9271 **
970.2000	-20.0000	-80.9476 **	-81.0952 **
1131.9000	-20.0000	-62.2983 **	-61.7087 **
1293.6000	-20.0000	-60.8950 **	-60.3552 **
1455.3000	-20.0000	-60.7025 **	-59.9598 **
1617.0000	-20.0000	-58.7295 **	-59.6437 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

FCC ID: AXI11373020
IC ID: 109U-89FT3839

Motorola Solutions.

SAC Transmitter Radiated Emission:

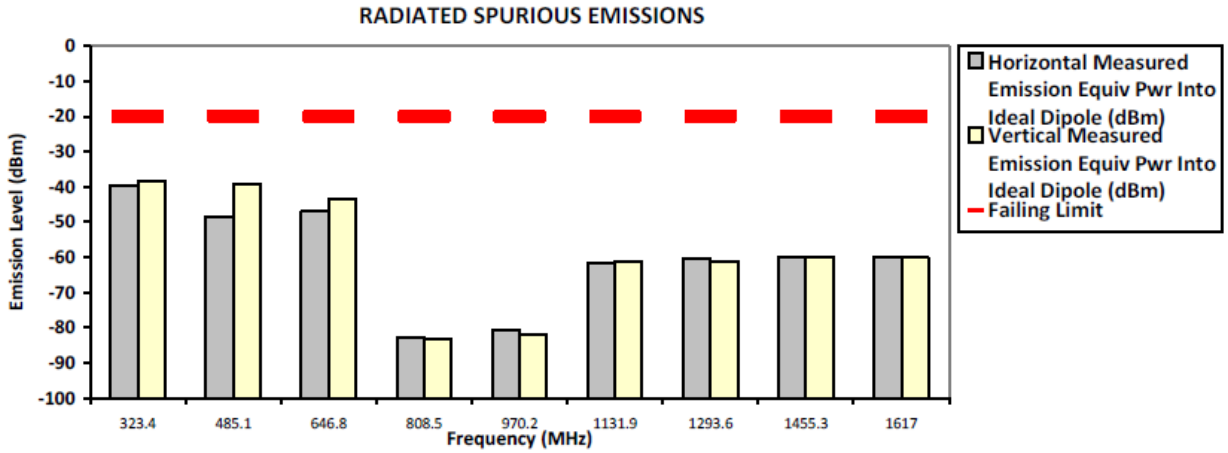
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Digital

161.700000 MHz **12.5 kHz** **5.500 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)
323.4000	-20.0000	-39.7700	-38.5500
485.1000	-20.0000	-48.4500 *	-39.1900
646.8000	-20.0000	-47.0600 *	-43.3400 *
808.5000	-20.0000	-82.7471 **	-83.0269 **
970.2000	-20.0000	-80.6374 **	-81.7664 **
1131.9000	-20.0000	-61.7076 **	-61.0869 **
1293.6000	-20.0000	-60.1518 **	-61.1933 **
1455.3000	-20.0000	-59.9053 **	-59.7749 **
1617.0000	-20.0000	-59.7299 **	-60.0625 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: **5.01** dB

Remarks: Passed Results | Marginal Results | Failed Results

FCC ID: AXI11373020
IC ID: 109U-89FT3839

Motorola Solutions.

SAC Transmitter Radiated Emission:

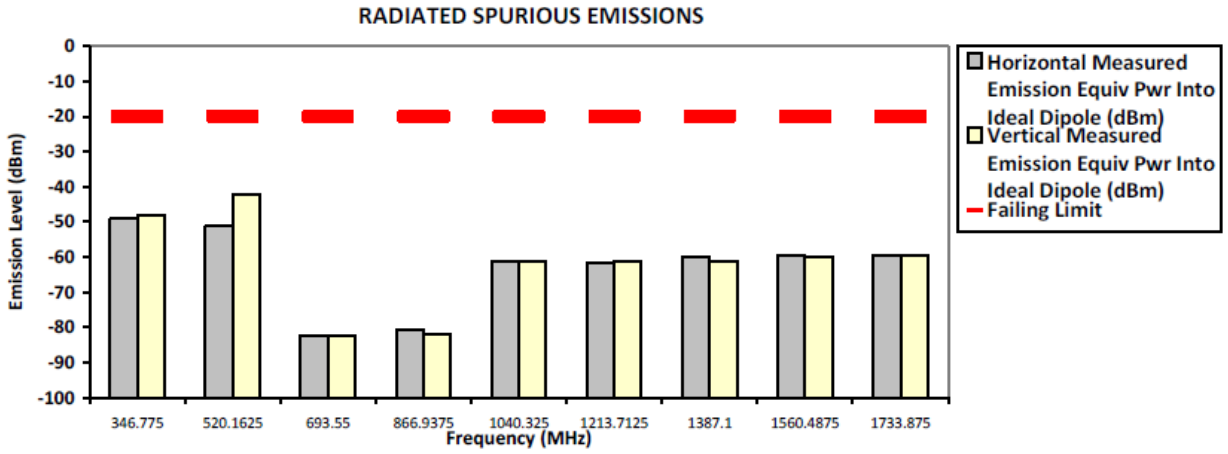
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Digital

173.387500 MHz **12.5 kHz** **1.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
346.7750	-20.0000	-49.1500 *	-48.2200 *
520.1625	-20.0000	-51.2400 *	-42.1900 *
693.5500	-20.0000	-82.3623 **	-82.5359 **
866.9375	-20.0000	-80.5742 **	-81.9917 **
1040.3250	-20.0000	-61.2363 **	-61.0329 **
1213.7125	-20.0000	-61.5735 **	-61.2122 **
1387.1000	-20.0000	-59.9317 **	-61.1667 **
1560.4875	-20.0000	-59.4731 **	-59.8645 **
1733.8750	-20.0000	-59.5265 **	-59.6163 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

Motorola Solutions.

SAC Transmitter Radiated Emission:

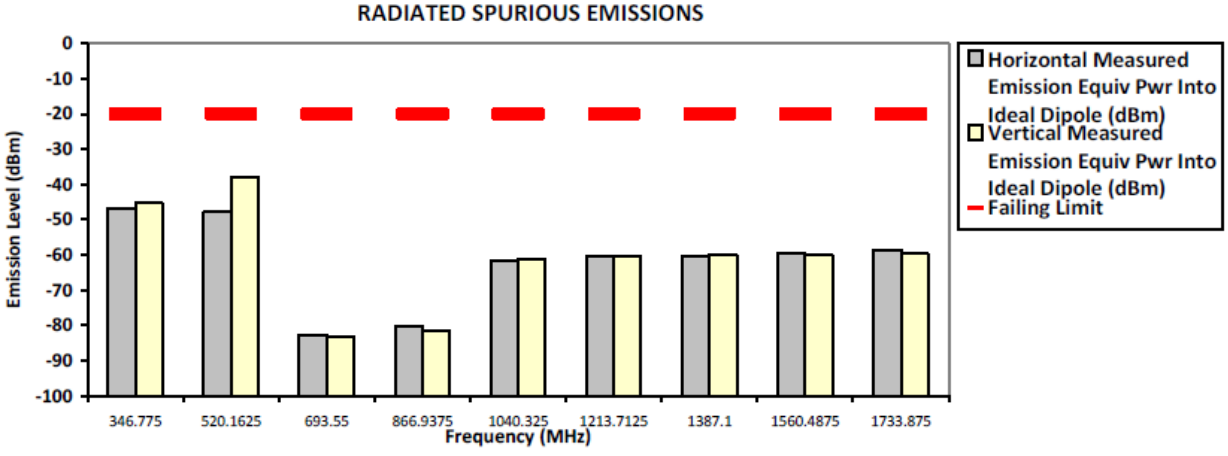
Model Number: EVX-261-D0-5 **S/N: 2A9E275017** **SR:10880-EMC-00007**

Battery Part No: FNB-V134LI-UNI **Accy Part No: NA**

Test Mode: TX Digital

173.387500 MHz **12.5 kHz** **5.500 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)
346.7750	-20.0000	-46.6800 *	-45.3700 *
520.1625	-20.0000	-47.8800 *	-37.8600
693.5500	-20.0000	-82.7140 **	-83.3483 **
866.9375	-20.0000	-80.2821 **	-81.5937 **
1040.3250	-20.0000	-61.6346 **	-61.3149 **
1213.7125	-20.0000	-60.1840 **	-60.2128 **
1387.1000	-20.0000	-60.5379 **	-60.0529 **
1560.4875	-20.0000	-59.4785 **	-60.0120 **
1733.8750	-20.0000	-58.6322 **	-59.6604 **



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

Qawiman&Azil Fri, May 31, 2019

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): 23.5 Hum(%RH): 69.4

System MU: 5.01 dB

Remarks: Passed Results | Marginal Results | Failed Results

5.2.2. Test Limit

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of emission (MHz)	Field strength (microvolts/meter)
30-88	100
88-216	150
216-960	200
Above 960	500

(b) The field strength of radiated emissions from a Class A digital device, as determined at a distance of 10 meters, shall not exceed the following:

Frequency of emission (MHz)	Field strength (microvolts/meter)
30-88	90
88-216	150
216-960	210
Above 960	300

5.3. AC Power Line Conducted Spur Emissions

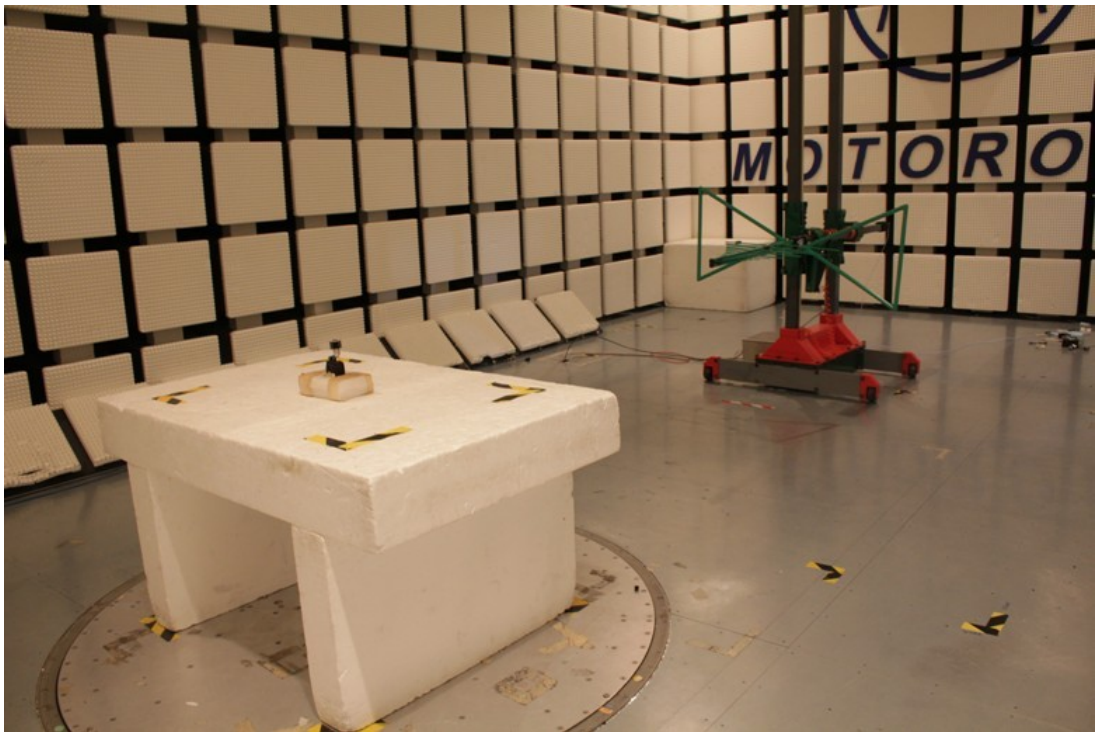
NOT APPLICABLE

6.0. Appendix: Test Setup Photo

6.1. Conducted Spur Emission ATE Station Setup

NOT APPLICABLE

6.2. Radiated Spur Emission Station Setup



6.3. AC Power Line Conducted Emission Station Setup

NOT APPLICABLE

6.4. Photographs – EUT

Front View

Back View (With Battery)

~ End of Test Report ~