

	 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																										
<table><tr><td>Date/s Tested</td><td>: 25-MAR-2018 - 26-MAR-2018</td></tr><tr><td>Report Issue Date</td><td>: 15-MAY-2018</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions Malaysia Sdn Bhd</td></tr><tr><td>Requestor</td><td>: SUBRAMANIAM VASU</td></tr><tr><td>Product Type</td><td>: Portable</td></tr><tr><td>Model Number</td><td>: AAH01QDC9JA2AN</td></tr><tr><td>Frequency Band</td><td>: 403-470 MHz</td></tr><tr><td>Low / Max RF Output Power</td><td>: 1 Watts / 4.8 Watts</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Malaysia Sdn Bhd</td></tr><tr><td>Applicant Address</td><td>: Innoplex Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>ISED Registrations</td><td>: 109AK</td></tr><tr><td>FCC Test Firm Registrations</td><td>: 461337</td></tr></table>  The equipment was tested accordance to the requirement listed below: <table><tr><td>(LMR) FCC 47 CFR Part 22 / 90 ISED RSS- Gen / 119</td><td>PASS</td></tr></table>		Date/s Tested	: 25-MAR-2018 - 26-MAR-2018	Report Issue Date	: 15-MAY-2018	Manufacturer/Location	: Motorola Solutions Malaysia Sdn Bhd	Requestor	: SUBRAMANIAM VASU	Product Type	: Portable	Model Number	: AAH01QDC9JA2AN	Frequency Band	: 403-470 MHz	Low / Max RF Output Power	: 1 Watts / 4.8 Watts	Applicant Name	: Motorola Solutions Malaysia Sdn Bhd	Applicant Address	: Innoplex Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D, 11900 Bayan Lepas, Penang, Malaysia	ISED Registrations	: 109AK	FCC Test Firm Registrations	: 461337	(LMR) FCC 47 CFR Part 22 / 90 ISED RSS- Gen / 119	PASS
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Prepared By: Song Zhi Wei Test Personnel	Approved By: Vincent Foong Responsible Engineer																										

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Report Revision History

Revision History	Description	Date	Originator
Rev. A	Initial Report	26-APR-2018	Song Zhi Wei
Rev. B	Updated tables in section 2.0 and 5.1 for RF Power test.	15-MAY-2018	Song Zhi Wei

1.0 General Information

EUT Description:

Technologies	Land Mobile Radio (LMR)
Modulation Type	Analog, 4FSK

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 C63.4-2014

ANSI C63.26-2015

2.0 Summary of Test Results

FCC General Rules Part (47CFR)	ISED General Rules Part	Test Item	Result	Remark
2.1046, 22.565	RSS-Gen, RSS-119	RF Power Output	PASS	-
-	-	Frequency Stability	NA	-
-	-	Audio Frequency Response	NA	-
-	-	Audio Low Pass Filter Response	NA	-
-	-	Modulation limiting	NA	-
-	-	Occupied Bandwidth	NA	-
-	-	Band Edge Conducted Spurious Emission	NA	-
90.214	RSS-Gen, RSS-119	Transient Frequency Behavior	Pass	-
-	-	Adjacent Channel Power	NA	-
-	-	Conducted Spurious Emissions	NA	-
2.1053, 22.359, 90.210	RSS-Gen, RSS-119	Radiated Spurious Emission	PASS	Highest Radiated Spur Level -34.75dBm
-	-	GNSS (EIRP for 1559 – 1610MHz)	NA	-
-	-	Effective Radiated Power (ERP)	NA	-

NA → Not Applicable

3.0 Measurement Uncertainty

Measurement	Frequency	Expanded 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

4.0 Equipment List

FCC Transient ATE #1: (SW version: FCC Transient ATE_R1.1.1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
POWER SUPPLY	6032A	2818A03549	11-May-17	11-May-18
POWER SENSOR	E4412A	MY41498918	9-May-17	9-May-18
POWER METER	E4416A	GB41293747	12-May-16	12-May-18
ATTENUATORS/SWITCH DRIVER	11713A	2508A10141	NCR	NCR
STEP ATTENUATOR/11dB	8494G	MY52300223	9-May-17	9-May-18
STEP ATTENUATOR/110dB	8496G	MY52300176	9-May-17	9-May-18
OSCILLOSCOPE	MSO8064A	MY45001903	25-May-17	25-May-18
AUDIO ANALYZER	8903B	3413A14586	5-Dec-17	5-Dec-18
AUDIO ANALYZER	8903B	3011A12671	25-Nov-17	25-Nov-18
MODULATION ANALYZER	8901B	3538A05696	29-Mar-17	29-Mar-18
SIGNAL GENERATOR	8657A	3323A05725	2-May-17	2-May-18
SPECTRUM ANALYZER	E4440A	MY46185415	24-May-17	24-May-19
SWITCH CONTROL UNIT	-	-	NCR	NCR

Radiated Emission Station (SW version: 1.5.1)

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	720	2-Mar-17	2-Mar-19
POWER SUPPLY	6032A	2615A01178	6-Jun-17	6-Jun-18
MICROWAVE SIGNAL GENERATOR	SMP04	100127	19-Jul-17	18-Jul-18
EMI TEST RECEIVER	ESIB26	100336	13-Jul-17	12-Jul-18
SIGNAL ANALYZER	FSV40	101103	18-Jul-17	17-Jul-18
5m Semi-anechoic Chamber	S800-HX	J2308	NCR	NCR
BILOG ANTENNA	CBL6112D	25224	22-Jul-17	22-Jul-18
BILOG ANTENNA	CBL6112B	30991	10-Apr-17	10-Apr-18
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	20-Mar-17	10-Apr-18
DATA LOGGER	SDL500	A.016776	18-Mar-17	18-Mar-19
LOOP ANTENNA	6502	208416	27-Jul-17	27-Jul-18
SYSTEM CONTROLLER	SC104V	050806-1	NCR	NCR
TURNTABLE FLUSH MOUNT 2M	FM2011	NA	NCR	NCR
ANTENNA POSITIONING TOWER	TLT2	NA	NCR	NCR
18 - 40GHz PREAMPLIFIER	BBV9721	9721-007	NCR	NCR
PREAMPLIFIER	PAM-0118P	361	NCR	NCR

NCR → No Calibration Required

5.0 Test Condition

5.1. Transmitter Test Conditions

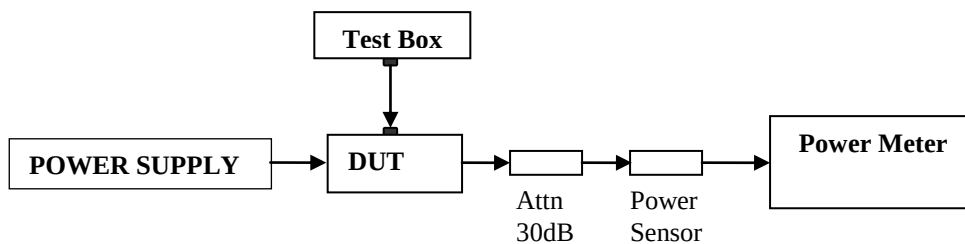
Test Item, (Channel Spacing)	Power (W)	Modulation	Test Frequency (MHz)	Tested By
RF Output Power	Low & Max	Analog	406.2, 450.65, 459.125, 467.775	Song Zhi Wei
Frequency Stability	Max	Analog	NA	NA
Audio Frequency Response (12.5kHz / 25kHz)	Max	Analog	NA	NA
Audio Low Pass Filter Response (12.5kHz / 25kHz)	Max	Analog	NA	NA
Modulation limiting (12.5kHz / 25kHz)	Max	Analog	NA	NA
Occupied Bandwidth (12.5kHz / 20kHz / 25kHz)	Max	Analog, 4FSK	NA	NA
Band Edge Conducted Spurious Emissions (Part 22) (12.5kHz / 20kHz / 25kHz)	Max	Analog, 4FSK	NA	NA
Transient Frequency Behavior (UHF & VHF Band) (12.5kHz / 25kHz)	Max	Analog, 4FSK	467.775	Song Zhi Wei
Adjacent Channel Power (700MHz Band) (12.5kHz / 25kHz)	Max	Analog, 4FSK	NA	NA
Conducted Spurious Emissions- (12.5kHz / 25kHz)	Low / Max	Analog, 4FSK	NA	NA
Radiated Spurious Emission (12.5kHz / 25kHz)	Low / Max	Analog, 4FSK	406.2, 450.65, 459.125, 467.775	Nazrin & Qawiman
GNSS (EIRP for 1559 - 1610MHz) (12.5kHz / 25kHz)	Max	Analog	NA	
Effective Radiated Power (ERP) (12.5kHz / 25kHz)	Max	Analog	NA	NA

NA → Not Applicable

6.0 Transmitter Test Parameters

6.1. RF Output Power

6.1.1. Test Setup



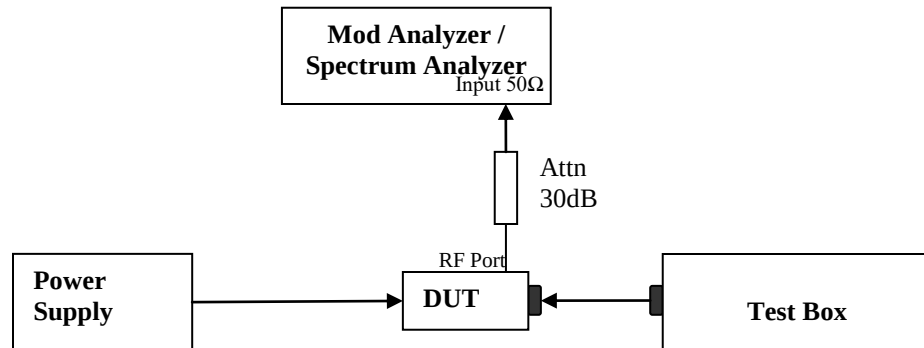
- 1) The DUT transmitter connected to Power Meter using the 30 dB attenuator and power sensor with above setup.
- 2) Path loss for the measurement included.
- 3) All the measurement was done at low, mid, high frequency for each band.
- 4) Record the power into the test report.

6.1.2. Test Result

Temperature	25°C				Remarks
Voltage (V)	7.5V				
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)	
406.2	1.03	0.77	4.65	1.65	
450.65	1.01	0.74	4.79	1.60	
459.125	1.02	0.71	4.79	1.61	
467.775	1.03	0.72	4.68	1.59	

6.2. Frequency Stability

6.2.1. Test Setup



- 1) The DUT transmitter output port was connected to Modulation / Spectrum Analyzer.
- 2) Path loss for the measurement included.
- 3) Transmit the DUT and record the freq in MCF_{MHz} .
- 4) Test in 2 conditions:
 - Temperature: The frequency of the transmitter was measured from -30°C to 50°C.
 - Supply Voltage:
 - Mobile: The frequency of the transmitter was measured from 85% to 115% of the nominal operating input voltage.
 - Portable: The frequency of the transmitter was measured from nominal $\pm x\%$ as specified by the manufacturer
- 5) Calculate the ppm frequency error by the following:

$$ppm\ error = \left(\frac{MCF_{MHz}}{ACF_{MHz}} - 1 \right) * 10^6$$

Where: MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz

6.2.2. Test Result

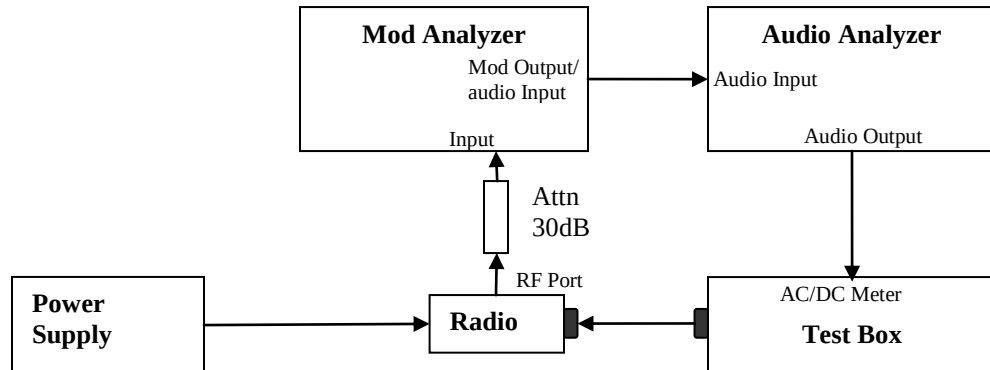
Not Applicable

6.2.3. Test Limit

As per manufacturer declared spec +/- ppm

6.3. Audio Frequency Response

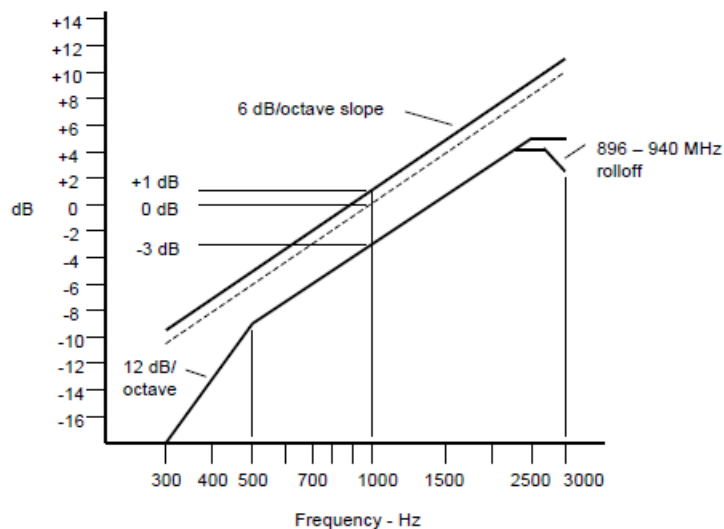
6.3.1. Test Setup



- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz and 50 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 20% of the Full rated system deviation.
- 5) On audio analyzer, set the rated level as reference to zero.
- 6) Vary the audio frequency from 300 Hz to 3 kHz. Record the change in dB on the audio analyzer.

6.3.2. Test Result Not Applicable

6.3.3. Test Limit

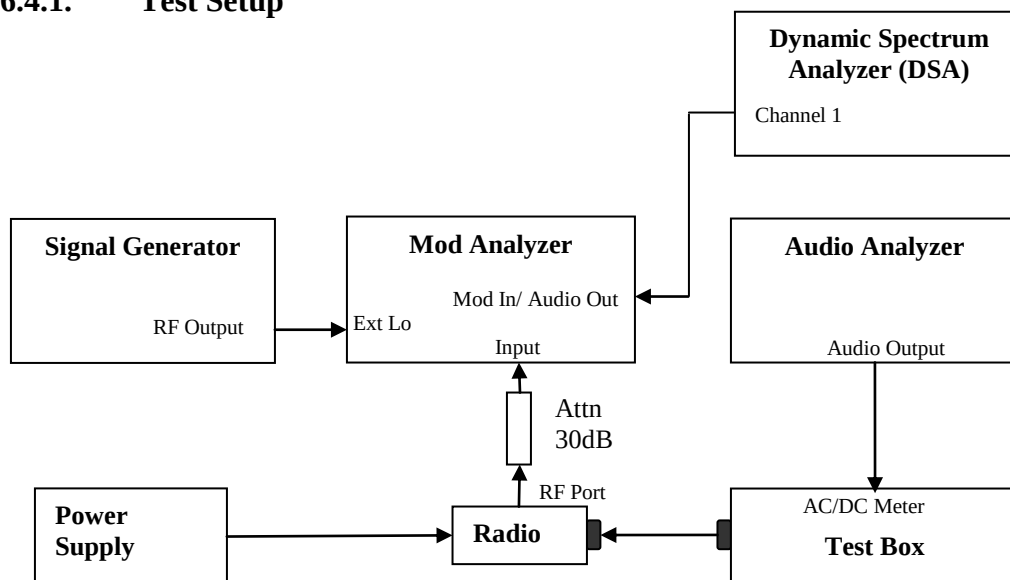


Note:

- o There are additional 6 dB per octave attenuation is allowed from 2.5KHz to 3KHz in equipment 25MHz to 869MHz radio.
- o Additional 6 dB per octave attenuation is allowed from 2.3KHz to 2.7KHz & additional 12 dB per octave attenuation is allowed from 2.7KHz to 3KHz in equipment 896MHz to 940MHz radio.

6.4. Audio Low Pass Filter Response

6.4.1. Test Setup

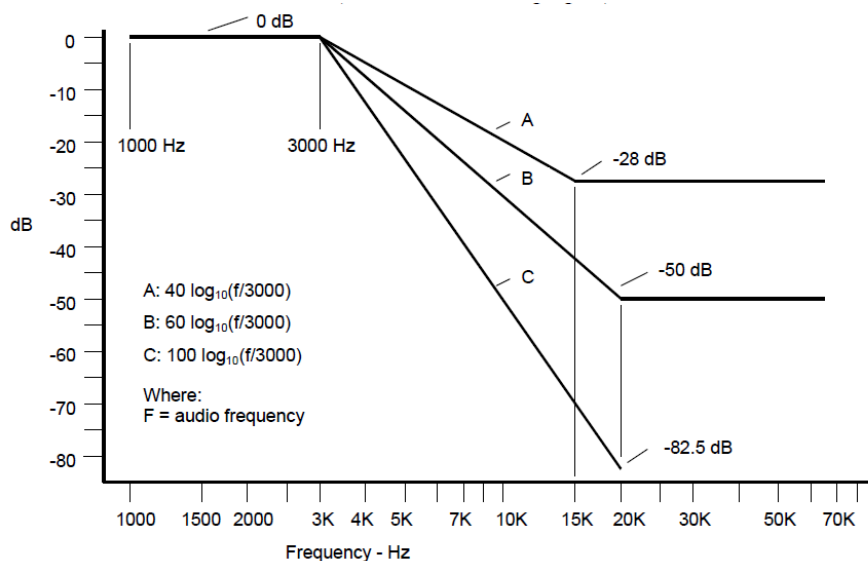


- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Press 23.1SPCL on modulation analyzer to enable the external LO from Sigen.
- 4) Set the Sigen frequency to $F_c + 1.5$ MHz, RF output level to 0dBm without modulation.
- 5) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the Full rated system deviation.
- 6) Up the amplitude by 20dB.
- 7) On DSA, get the reference point to 0dB.
- 8) Vary the frequency on audio analyzer from 3 kHz to 20 kHz, record the audio tone from DSA.

6.4.2. Test Result

Not Applicable

6.4.3. Test Limit



For audio frequencies above 3000 Hz, the audio response of the post limiter low-pass filter shall meet or exceed the following requirements:

- a) For equipment operating on 20, 25 or 30 kHz channel bandwidth in the 25 MHz to 174 MHz range:

At frequencies from 3000 Hz through 15,000 Hz the attenuation shall be greater than the attenuation at 1000 Hz by at least: $40 \log_{10}(f/3000)$ dB

where: f is the audio frequency in Hz.

At frequencies above 15,000 Hz, the attenuation shall be greater than the attenuation at 1000 Hz, by at least: 28 dB.

- b) For equipment operating with 25 kHz bandwidth channels between 406 and 512 MHz through 896 MHz, and between 929 MHz through 930 MHz:

At frequencies from 3000 Hz through 20,000 Hz, the attenuation shall be greater than the attenuation at 1000 Hz by at least: $60 \log_{10}(f/3000)$ dB

where: f is the audio frequency in Hz.

At frequencies above 20,000 Hz the attenuation shall be greater than the attenuation at 1000 Hz by at least: 50 dB.

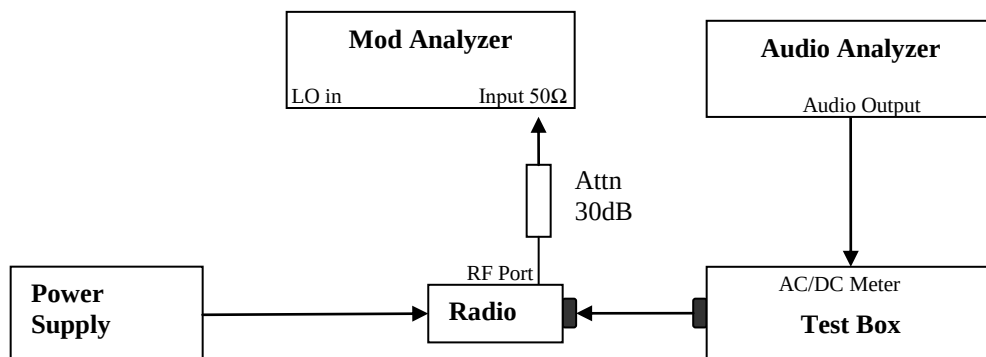
- c) For equipment operating on channels between 896 MHz through 901 MHz, between 935 MHz through 940 MHz, and 12.5 or 15 kHz spaced channels in the frequency range 138-174 MHz and 406-512 MHz.

At frequencies from 3000 Hz through 20,000 Hz the attenuation shall be greater than the attenuation at 1000 Hz by at least: $100 \log_{10}(f/3000)$ dB

where: f is the audio frequency in Hz.

6.5. Modulation Limiting

6.5.1. Test Setup



- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the Full rated system deviation.
- 5) Record the frequency deviation as 0dB input level at 1kHz audio frequency.
- 6) Repeat the step and record the frequency deviation from -20 dB to 20dB by 5 dB increments and different audio freq 300 Hz, 2.5 kHz and 3 kHz.

6.5.2. Test Result

Not Applicable

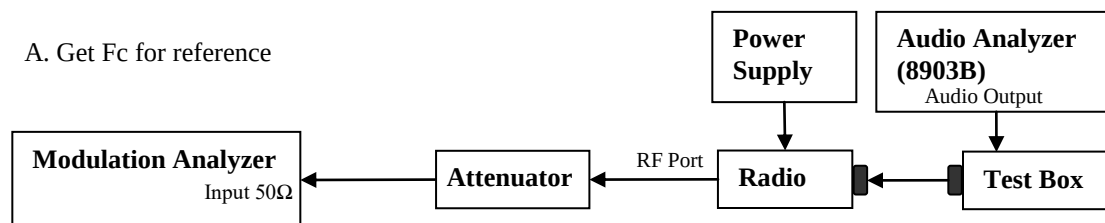
6.5.3. Test Limit

Modulation Limiting shall not exceed 100 percent.

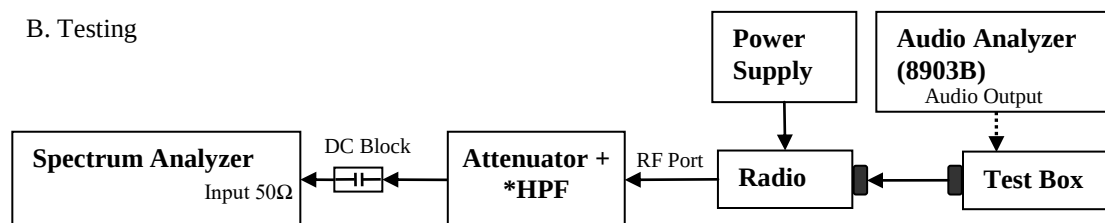
6.6. Occupied Bandwidth

6.6.1. Test Setup (Analog)

A. Get Fc for reference



B. Testing



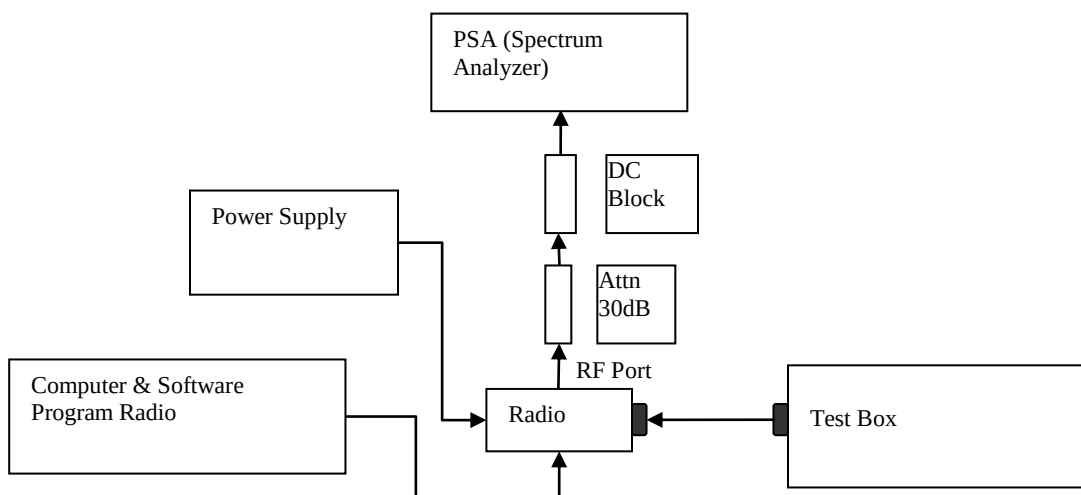
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey the DUT.
- 4) Path loss for the measurement included.
- 5) Select the Occupied Bandwidth measurement for 99% Emissions Bandwidth Measurement.
- 6) Key in the Fc and Resolution Bandwidth (1 ~ 5 % of emission designator).
- 7) Transmit the DUT and record the occupied Bandwidth frequency.
- 8) Preset the spectrum analyzer for sideband spectrum measurement.
- 9) Set the span and Resolution Bandwidth (according to FCC/ ISED standard).
- 10) Save the screen shot as modulated signal
- 11) Remove the audio tone from audio analyzer to capture unmodulated signal.

* Only HPF added for Mask 80.211 measurement with attenuator.

6.6.2. Test Result (Analog)

Not Applicable

6.6.3. Test Setup (Digital)



- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (*4FSK, C4FM or other digital modulation form).
- 2) Path loss for the measurement included.
- 3) Select the Occupied Bandwidth measurement for 99% Emissions Bandwidth Measurement.
- 4) Key in the Fc and Resolution Bandwidth (1 ~ 5 % of emission designator).
- 5) Transmit the DUT and record the occupied Bandwidth frequency.
- 6) Preset the spectrum analyzer for modulation emission spectrum measurement.
- 7) Set the span and Resolution Bandwidth (according to FCC/ ISED standard).
- 8) Capture the screen shot as modulated signal.

*Note:

- For Digital Modulation, 12.5 kHz Data F1D & FXD would be the same. Therefore only measurements with F1D modulation shown below.
- For Digital Modulation, 12.5 kHz Data F1E & FXE would be the same. Therefore only measurements with F1E modulation shown below.

6.6.4. Test Result (Digital)

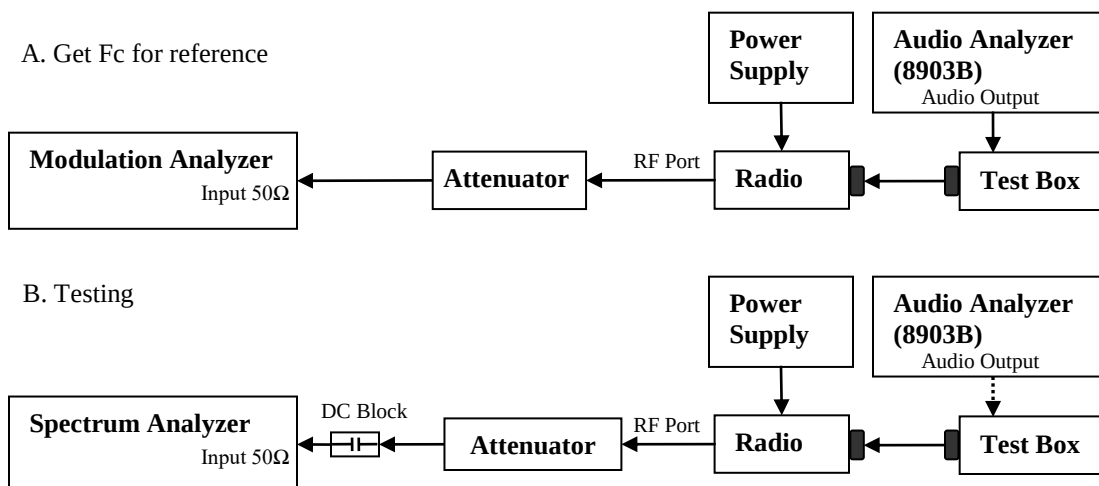
Not Applicable

6.6.5. Test Limit

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

6.7. Band Edge Conducted Spurious Emission (Part 22)

6.7.1. Test Setup (Analog)



- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey the DUT.
- 4) Path loss for the measurement included.
- 5) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
- 6) Key in the Fc and Resolution Bandwidth.
- 7) Transmit the DUT and record the occupied Bandwidth frequencies.
- 8) Preset the spectrum analyzer for band edge measurement.
- 9) The band edges of lowest and highest channels were measured.
- 10) Key in the Lowest and highest channel frequency, span is 60 kHz and Resolution Bandwidth is at least 1% of Emission Bandwidth.
- 11) Save the screen shot as modulated signal.
- 12) Remove the audio tone from audio analyzer to capture unmodulated signal.

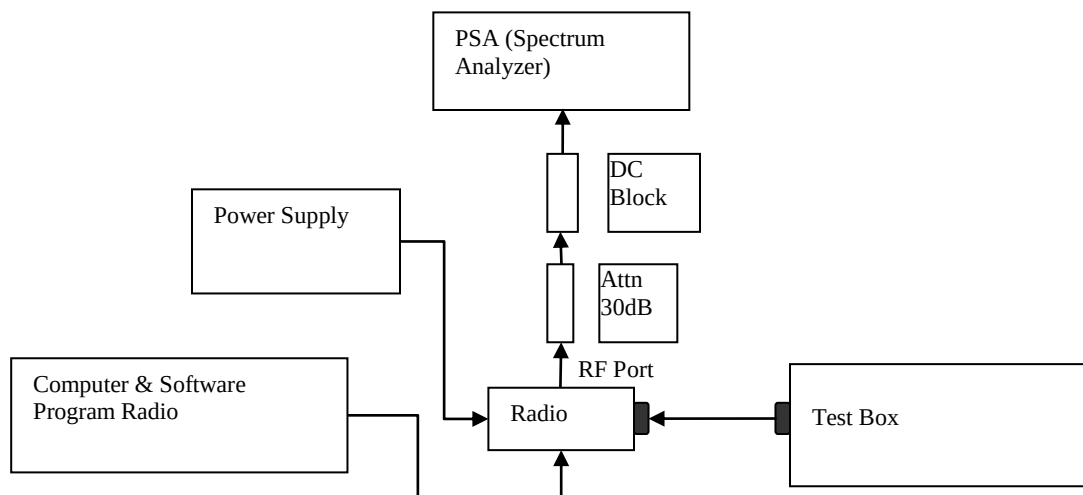
*Note:

- For emission designator ending with F3E, 16K0F3E is the worst case and therefore only 16K0F3E will be shown.

6.7.2. Test Result (Analog)

Not Applicable

6.7.3. Test Setup (Digital)



- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (*4FSK, C4FM or other digital modulation form).
- 2) Path loss for the measurement included.
- 3) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
- 4) Key in the Fc and Resolution Bandwidth.
- 5) Transmit radio record the occupied Bandwidth frequencies.
- 6) Preset the spectrum analyzer for band edge measurement.
- 7) Key in the lowest and highest channels frequency, span is 60 kHz and Resolution Bandwidth is at least 1% of Emission Bandwidth.
- 8) Save the screen shot.

*Note:

- For Digital Modulation, 12.5 kHz Data F1D & FXD would be the same. Therefore only measurements with F1D modulation shown below.
- All digital modulation emission IDs (F1E/D/W) use the same test pattern and are therefore identical. Hence only F1D will be shown.

6.7.4. Test Result (Digital)

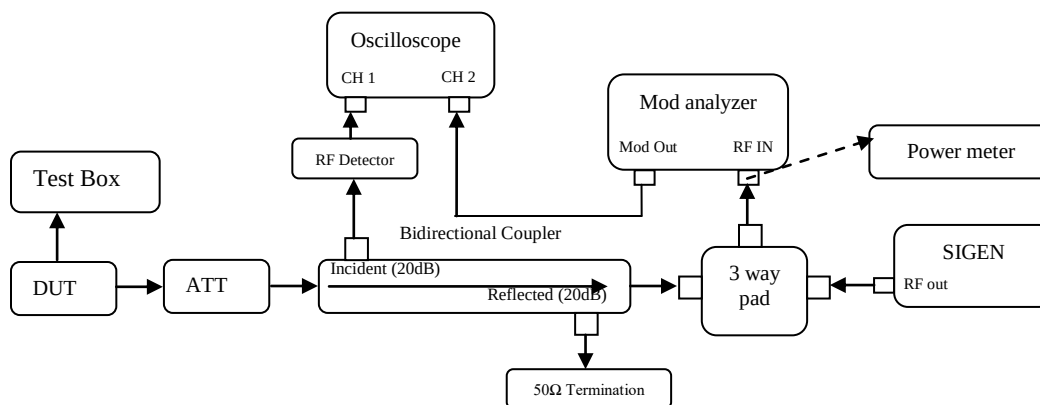
Not Applicable

6.7.5. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

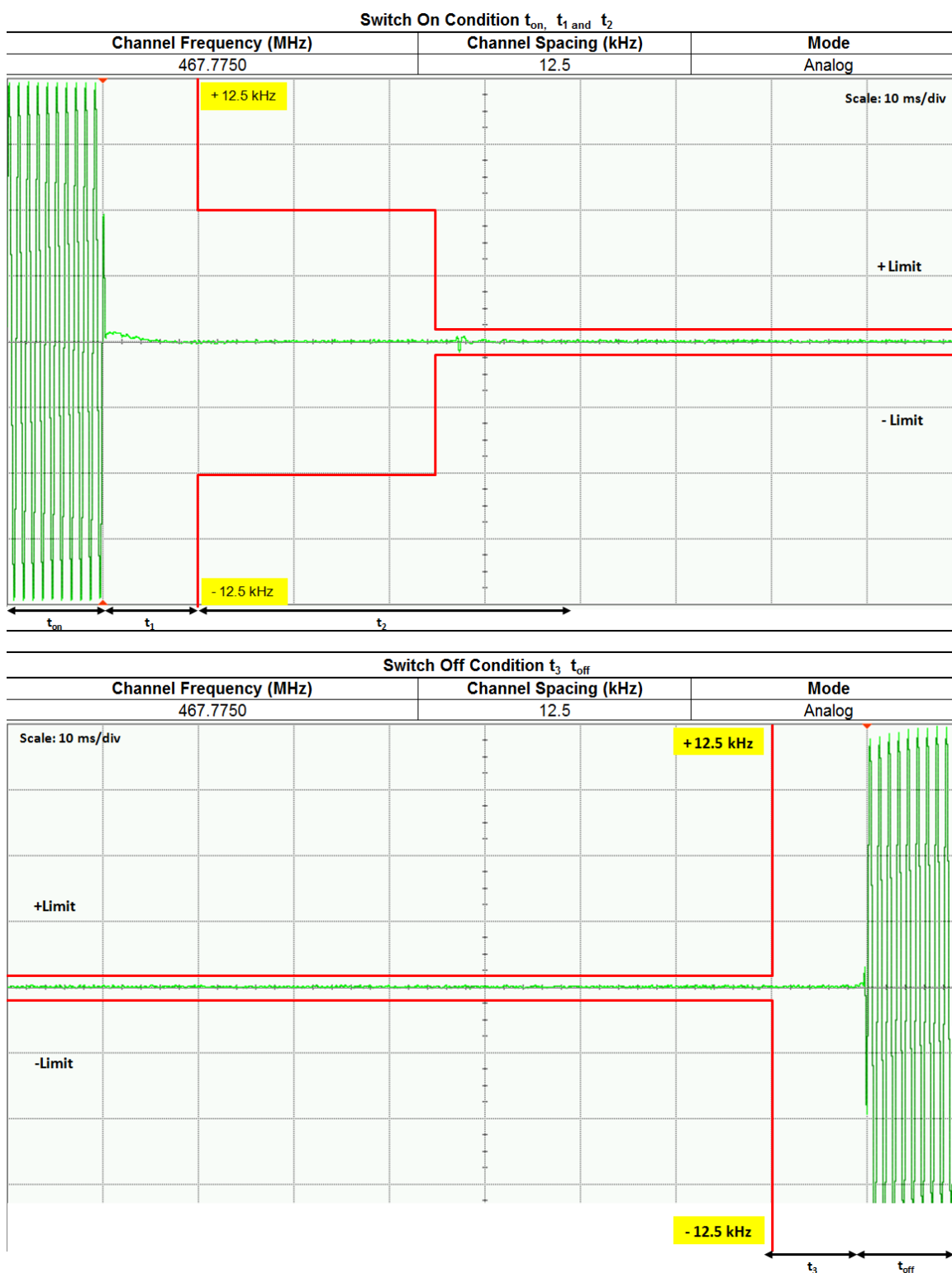
6.8. Transient Frequency Behavior

6.8.1. Test Setup

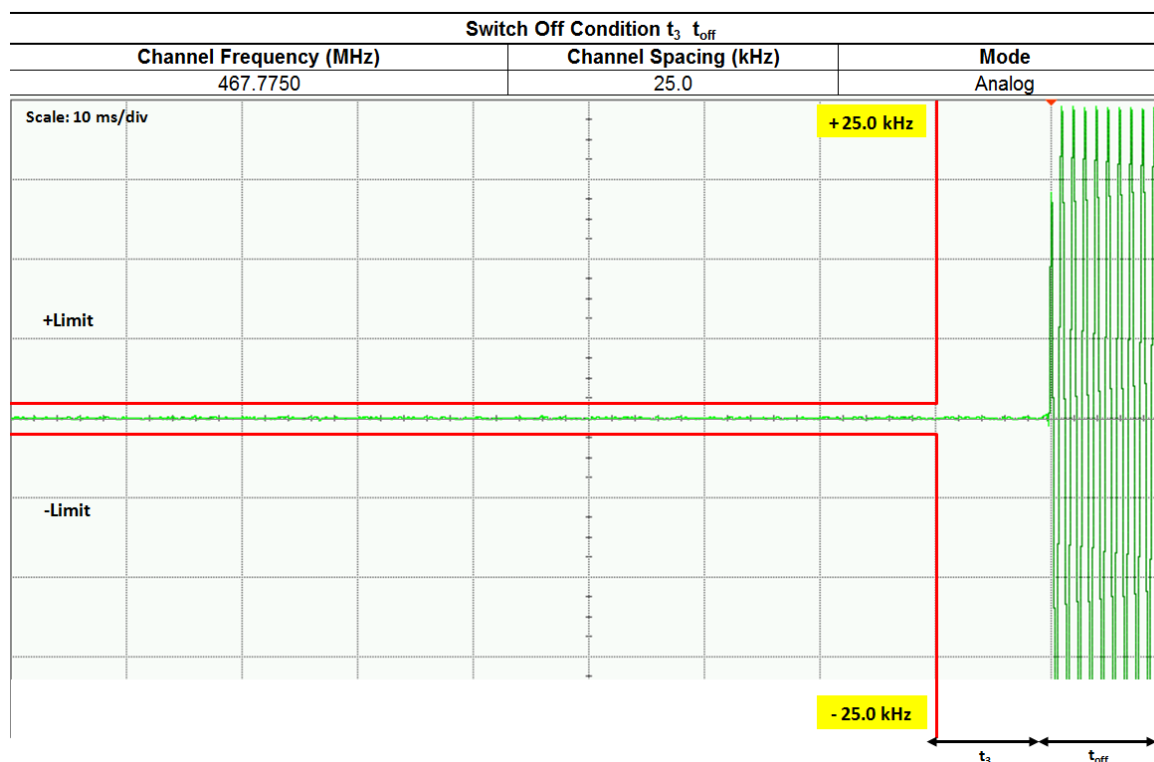
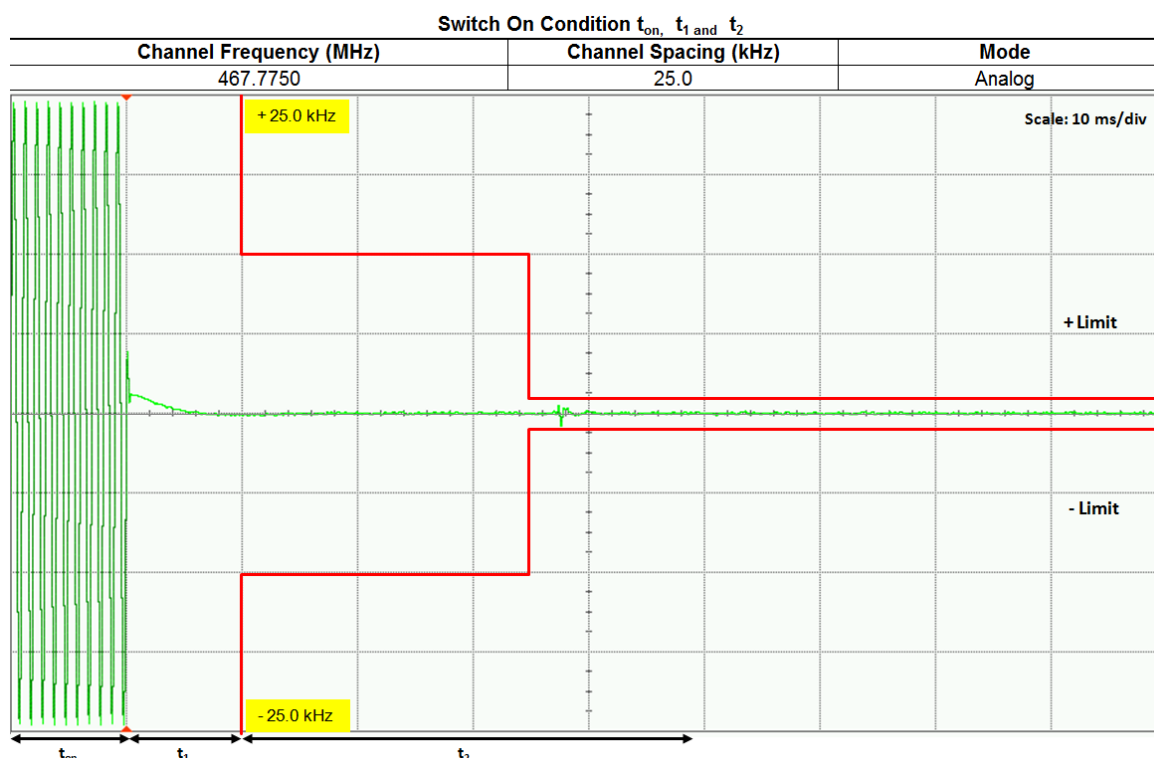


- 1) Connect the setup as figure above.
- 2) Path loss for the measurement included.
- 3) Set on Sigen with the assigned center frequency, internal 1 kHz FM tone.
FM Deviation: Analog 25kHz Channel Spacing = 25 kHz
Analog 12.5 kHz Channel Spacing = 12.5 kHz
C4FM = 12.5 kHz
- 4) Turn on 50 kHz high pass filter and 15 kHz low pass filter on modulation analyzer.
- 5) Supply sufficient attenuation ATT to provide the output power of $\leq -11\text{dBm}$ into power meter when DUT is keying up.
- 6) Note the power level on power meter and dekey the DUT.
- 7) Adjust the amplitude of the signal generator to the level power meter, maintained the amplitude throughout the rest of the measurement.
- 8) Connect the output to modulation analyzer.
- 9) Reduce 30dB attenuation and transmit the radio to get the trigger line.
- 10) Capture the screen shot for key-up (rising edge) and de-key (falling edge) mode.

6.8.2. Test Result



Not For FCC Review



6.8.3. Test Limit

Transmitters designed to operate in the 150-174 MHz and 421-512 MHz frequency bands must maintain transient frequencies within the maximum frequency difference limits during the time intervals indicated:

Time intervals ^{1 2}	Maximum frequency difference ³	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t ₁ ⁴	±25.0 kHz	5.0 ms	10.0 ms
t ₂	±12.5 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t ₁ ⁴	±12.5 kHz	5.0 ms	10.0 ms
t ₂	±6.25 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t ₁ ⁴	±6.25 kHz	5.0 ms	10.0 ms
t ₂	±3.125 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±6.25 kHz	5.0 ms	10.0 ms

¹_{on} is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

t_1 is the time period immediately following t_{on} .

t_2 is the time period immediately following t_1 .

t_3 is the time period from the instant when the transmitter is turned off until t_{off} .

t_{off} is the instant when the 1 kHz test signal starts to rise.

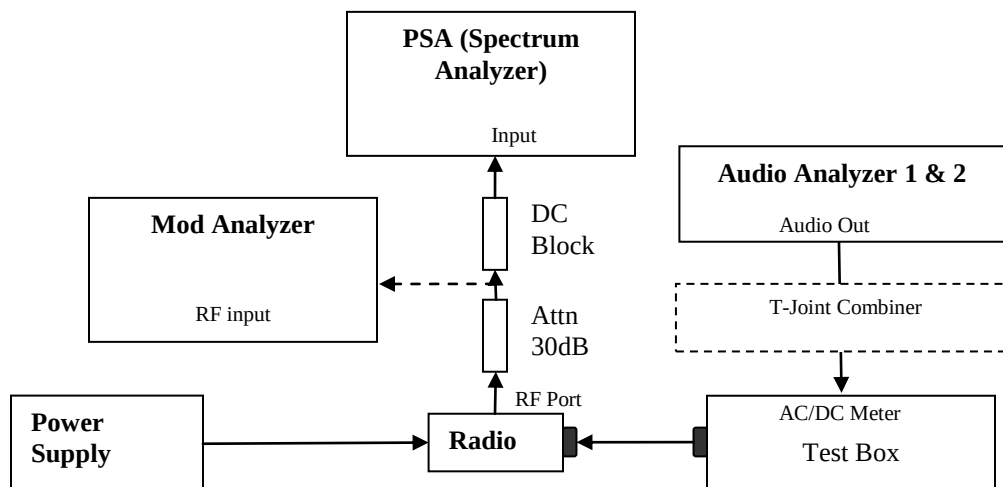
² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

³ Difference between the actual transmitter frequency and the assigned transmitter frequency.

⁴ If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

6.9. Adjacent Channel Power

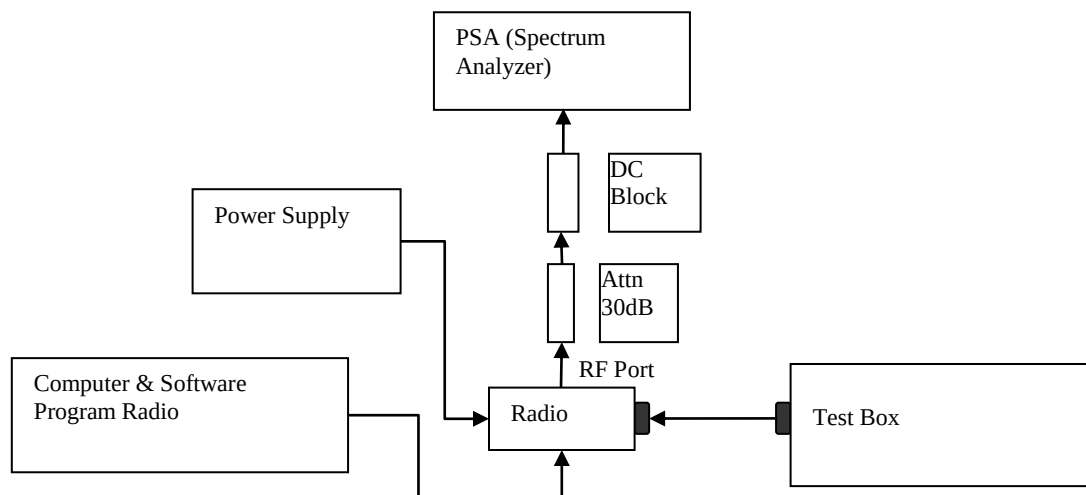
6.9.1. Test Setup (Analog)



- 1) The DUT transmitter output port was connected to modulation analyzer.
- 2) Transmit the radio and turn on 1st audio analyzer with audio frequency 650Hz, 50% rated deviation, and record the amplitude value as AmpT1.
- 3) Turn off Audio analyzer 1 and turn on audio analyzer 2, set the audio frequency to 2.2 kHz and 50% deviation. Record the amplitude as AmpT2.
- 4) Turn both audio analyzers ON and up 10dB amplitude level.
- 5) Connect the output to PSA and set to assigned center frequency.
- 6) Set Span, Resolution Bandwidth and Video Bandwidth per rules part.
- 7) Transmit the radio and record the Adjacent Channel Power value in dBc.

6.9.2. Test Result **Not Applicable**

6.9.3. Test Setup (Digital)



- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (4FSK, C4FM or other digital modulation form).
- 2) Prepare setup as per picture.
- 3) Turn on the ACP Measurement – Press Measure, ACP.
- 4) Set Span, Resolution Bandwidth and Video Bandwidth as per rules part.
- 5) Transmit the radio and record the Adjacent Channel Power value in dBc.

6.9.4. Test Result

Not Applicable

6.9.5. Test Limit

12.5 kHz MOBILE TRANSMITTER ACP REQUIREMENTS

Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP relative (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.50	25.00	-60
62.50	25.00	-65
87.50	25.00	-65
150.00	100	-65
250.00	100	-65
350.00	100	-65
>400 to 12 MHz	30 (s)	-75
12 MHz to paired receive band	30 (s)	-75
In the paired receive band	30 (s)	-100

25 kHz MOBILE TRANSMITTER ACP REQUIREMENTS

Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP relative (dBc)
15.625	6.25	-40
21.875	6.25	-60
37.50	25	-60
62.50	25	-65
87.50	25	-65
150.00	100	-65
250.00	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-75
12 MHz to paired receive band	30 (s)	-75
In the paired receive band	30 (s)	-100

12.5 kHz BASE TRANSMITTER ACP REQUIREMENTS

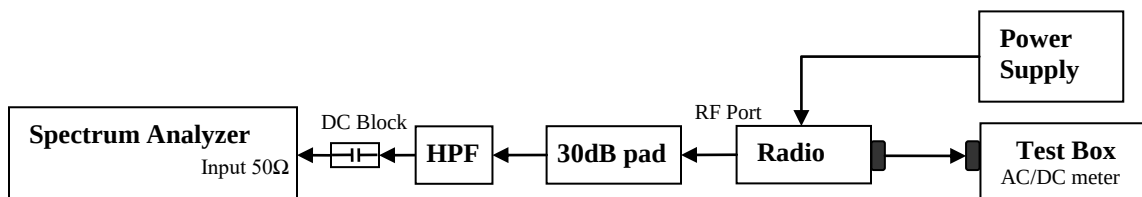
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band	30 (s)	¹ -85

25 kHz BASE TRANSMITTER ACP REQUIREMENTS

Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
15.625	6.25	-40
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350	100.00	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band	30 (s)	¹ -85

6.10. Conducted Spurious Emission

6.10.1. Test Setup



- 1) The DUT transmitter output port was connected to Spectrum Analyzer with above setup.
- 2) Program and set radio to operate in desire test frequency and mode. (Analog / digital modulation form).
- 3) Path loss for the measurement included.
- 4) Set the PSA Resolution Bandwidth as per rules part.
- 5) Set the Ref offset from the pathloss offset calibration file.
- 6) Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from:
 - a. 9 KHz to $F_c - \text{Test Bandwidth}$
 - b. $F_c + \text{Test Bandwidth}$ to $2F_c - 5\text{MHz}$.
- 7) Key up the DUT, Peak Search the highest Spur and record the levels of spurious emissions
- 8) Dekey the DUT.
- 9) Turn On High Pass Filter path and Key up the DUT.
- 10) Adjust the PSA Freq for incremental coverage of range from $2F_c$ to $10F_c$
- 11) Key up the DUT and record the highest spur levels of spurious emissions.

6.10.2. Test Result (Analog) **Not Applicable**

6.10.3. Test Result (Digital) **Not Applicable**

6.10.4. Test Limit

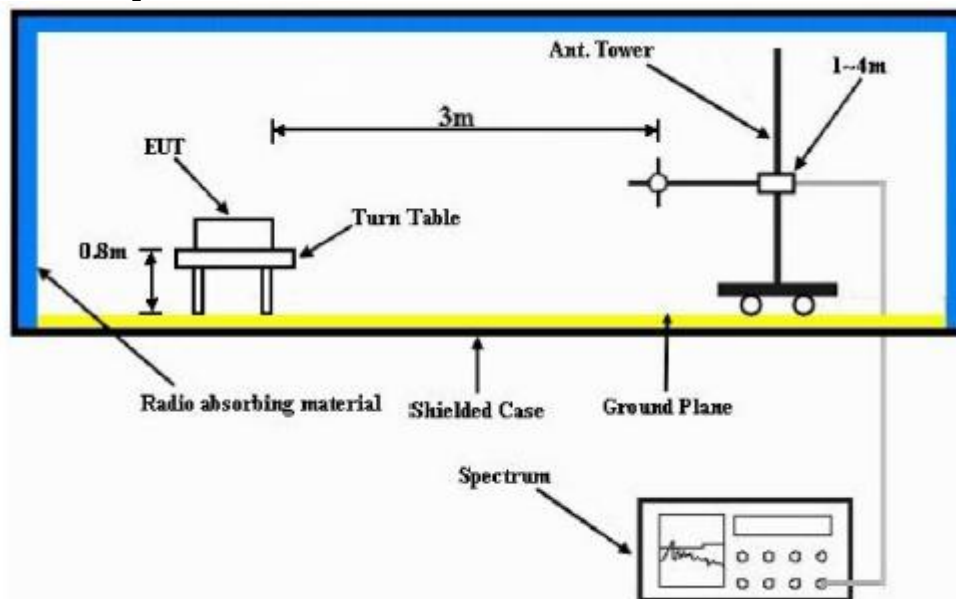
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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 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: AAH01QDC9JA2AN

S/N: 752TUFQ444

SR:09138-EMC-00017

Battery Part No: PMNN4258AR

Accy Part No: NA

Test Mode: TX Analog

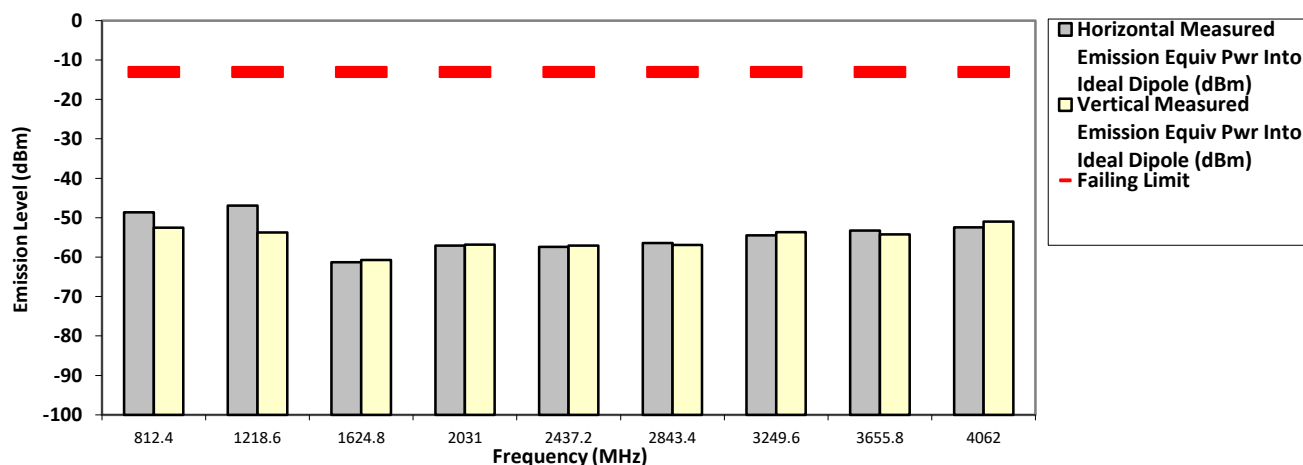
406.200000 MHz

25 kHz

4.800 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)
812.4000	-13.0000	-48.6100 *	-52.5400 *
1218.6000	-13.0000	-46.9300 *	-53.7700 *
1624.8000	-13.0000	-61.2934 **	-60.7646 **
2031.0000	-13.0000	-57.0901 **	-56.8639 **
2437.2000	-13.0000	-57.4267 **	-57.0712 **
2843.4000	-13.0000	-56.4327 **	-56.9162 **
3249.6000	-13.0000	-54.5168 **	-53.6537 **
3655.8000	-13.0000	-53.2878 **	-54.2324 **
4062.0000	-13.0000	-52.4796 **	-50.9738 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

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

Mon, Mar 26, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

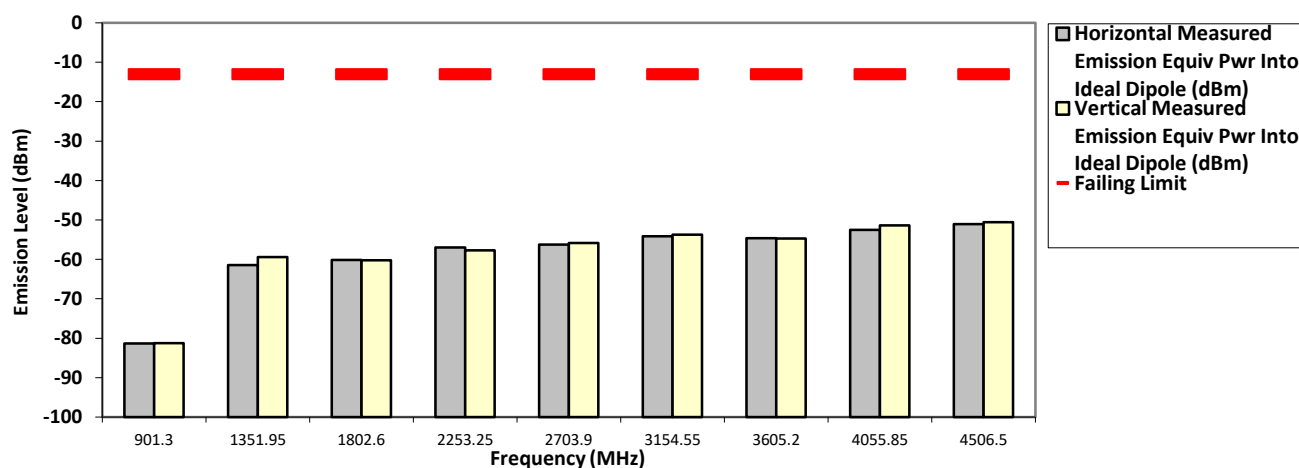
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN S/N: 752TUFQ444 SR:09138-EMC-00017
 Battery Part No: PMNN4258AR
 Test Mode: TX Analog Accy Part No: NA
 450.650000 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)
901.3000	-13.0000	-81.3283 **	-81.2352 **
1351.9500	-13.0000	-61.4121 **	-59.4201 **
1802.6000	-13.0000	-60.1562 **	-60.1901 **
2253.2500	-13.0000	-57.0198 **	-57.6912 **
2703.9000	-13.0000	-56.2861 **	-55.8722 **
3154.5500	-13.0000	-54.1711 **	-53.7300 **
3605.2000	-13.0000	-54.6413 **	-54.6934 **
4055.8500	-13.0000	-52.5505 **	-51.3653 **
4506.5000	-13.0000	-51.0596 **	-50.5719 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

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

Mon, Mar 26, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

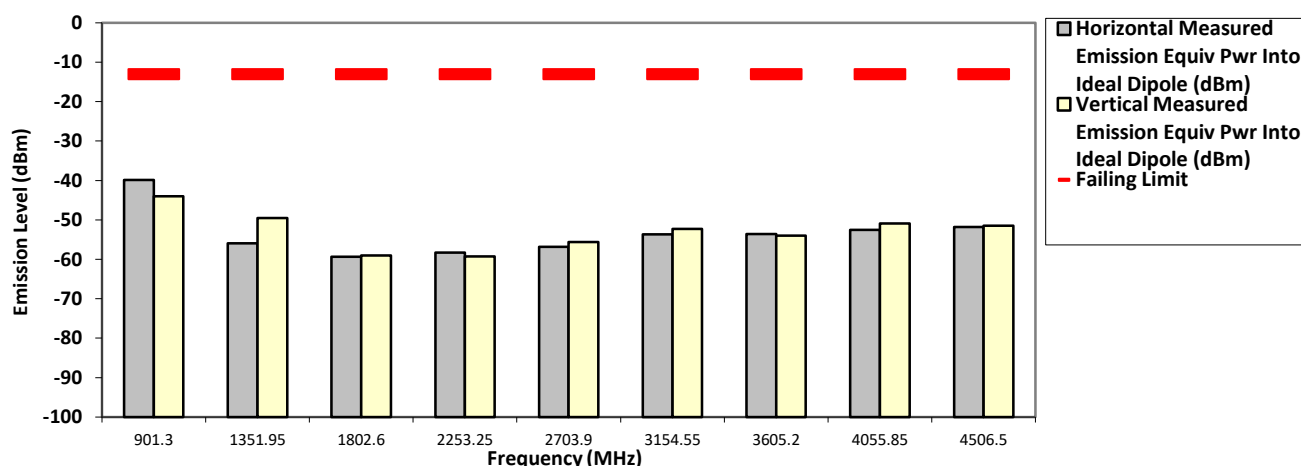
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN S/N: 752TUFQ444 SR:09138-EMC-00017
 Battery Part No: PMNN4258AR
 Test Mode: TX Analog Accy Part No: NA
 450.650000 MHz 25 kHz 4.800 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)
901.3000	-13.0000	-39.9100 *	-44.0100 *
1351.9500	-13.0000	-55.9200 *	-49.5400 *
1802.6000	-13.0000	-59.3787 **	-59.0637 **
2253.2500	-13.0000	-58.3039 **	-59.2988 **
2703.9000	-13.0000	-56.8670 **	-55.6078 **
3154.5500	-13.0000	-53.6355 **	-52.2961 **
3605.2000	-13.0000	-53.5693 **	-53.9705 **
4055.8500	-13.0000	-52.5031 **	-50.9459 **
4506.5000	-13.0000	-51.8044 **	-51.4601 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

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

Mon, Mar 26, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN

S/N: 752TUFQ444

SR:09138-EMC-00017

Battery Part No: PMNN4258AR

Accy Part No: NA

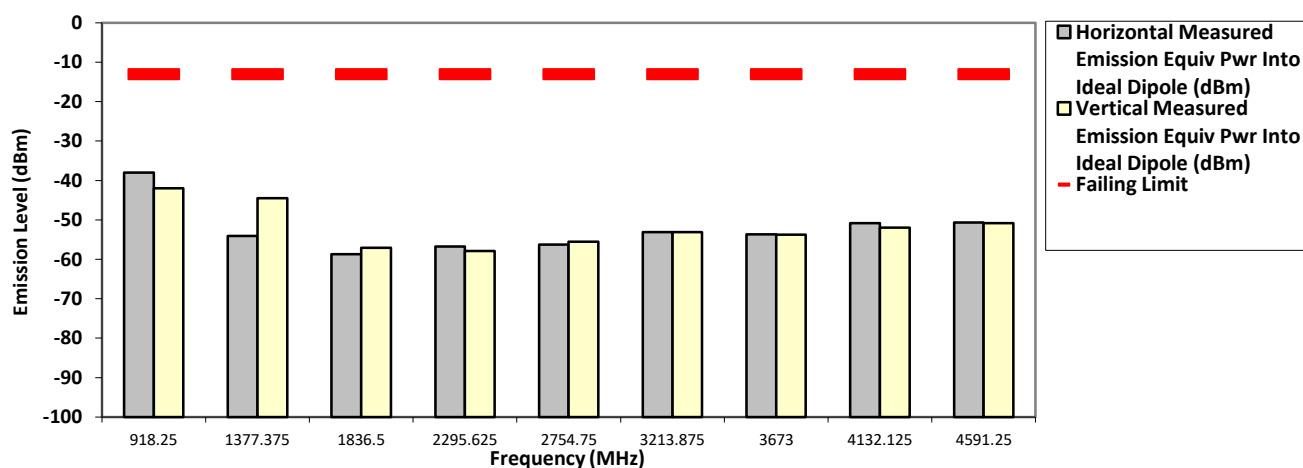
Test Mode: TX Analog
 25 kHz

459.125000 MHz

4.800 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)
918.2500	-13.0000	-38.0000 *	-41.9700 *
1377.3750	-13.0000	-54.0900 *	-44.4800 *
1836.5000	-13.0000	-58.7216 **	-57.0465 **
2295.6250	-13.0000	-56.7748 **	-57.9185 **
2754.7500	-13.0000	-56.2867 **	-55.5095 **
3213.8750	-13.0000	-53.0905 **	-53.1302 **
3673.0000	-13.0000	-53.7072 **	-53.7760 **
4132.1250	-13.0000	-50.8550 **	-51.9691 **
4591.2500	-13.0000	-50.6651 **	-50.8545 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

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

Mon, Mar 26, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

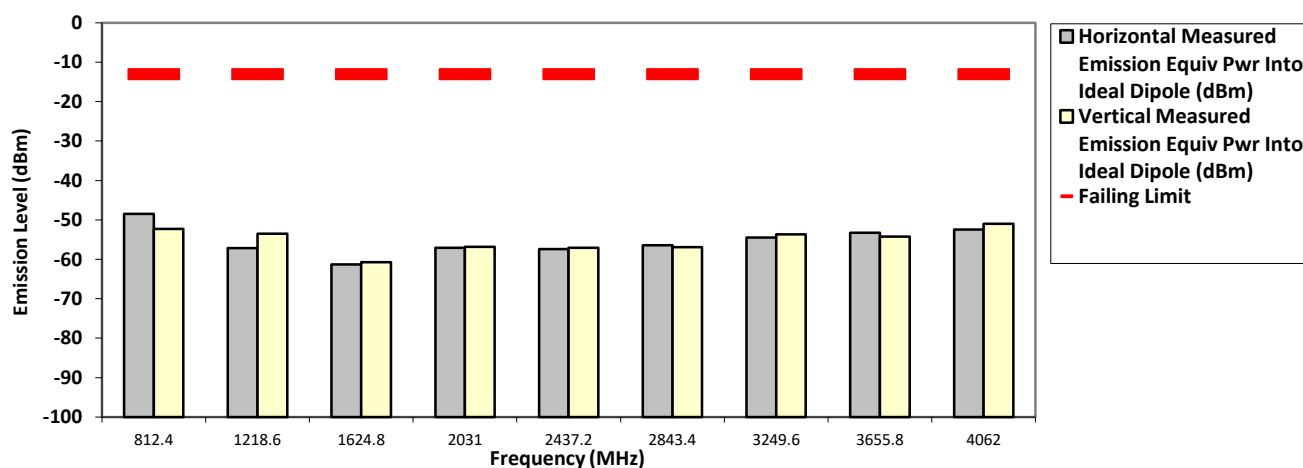
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN S/N: 752TUFQ444 SR:09138-EMC-00017
 Battery Part No: PMNN4258AR Test Mode: TX Analog Accy Part No: NA
 406.200000 MHz 25 kHz 4.800 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)
812.4000	-13.0000	-48.4600 *	-52.2800 *
1218.6000	-13.0000	-57.1700 *	-53.4900 *
1624.8000	-13.0000	-61.2934 **	-60.7646 **
2031.0000	-13.0000	-57.0901 **	-56.8639 **
2437.2000	-13.0000	-57.4267 **	-57.0712 **
2843.4000	-13.0000	-56.4327 **	-56.9162 **
3249.6000	-13.0000	-54.5168 **	-53.6537 **
3655.8000	-13.0000	-53.2878 **	-54.2324 **
4062.0000	-13.0000	-52.4796 **	-50.9738 **

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, Mar 25, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

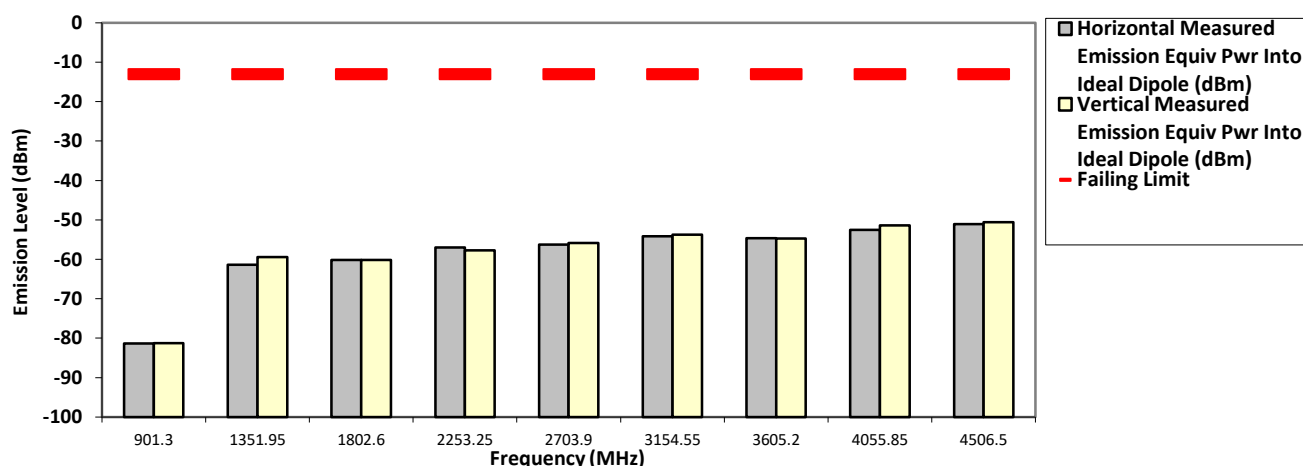
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN S/N: 752TUFQ444 SR:09138-EMC-00017
 Battery Part No: PMNN4258AR
 Test Mode: TX Analog Accy Part No: NA
 450.650000 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)
901.3000	-13.0000	-81.3283 **	-81.2352 **
1351.9500	-13.0000	-61.4121 **	-59.4201 **
1802.6000	-13.0000	-60.1562 **	-60.1901 **
2253.2500	-13.0000	-57.0198 **	-57.6912 **
2703.9000	-13.0000	-56.2861 **	-55.8722 **
3154.5500	-13.0000	-54.1711 **	-53.7300 **
3605.2000	-13.0000	-54.6413 **	-54.6934 **
4055.8500	-13.0000	-52.5505 **	-51.3653 **
4506.5000	-13.0000	-51.0596 **	-50.5719 **

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: Nazrin&Qawiman Sun, Mar 25, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:	Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

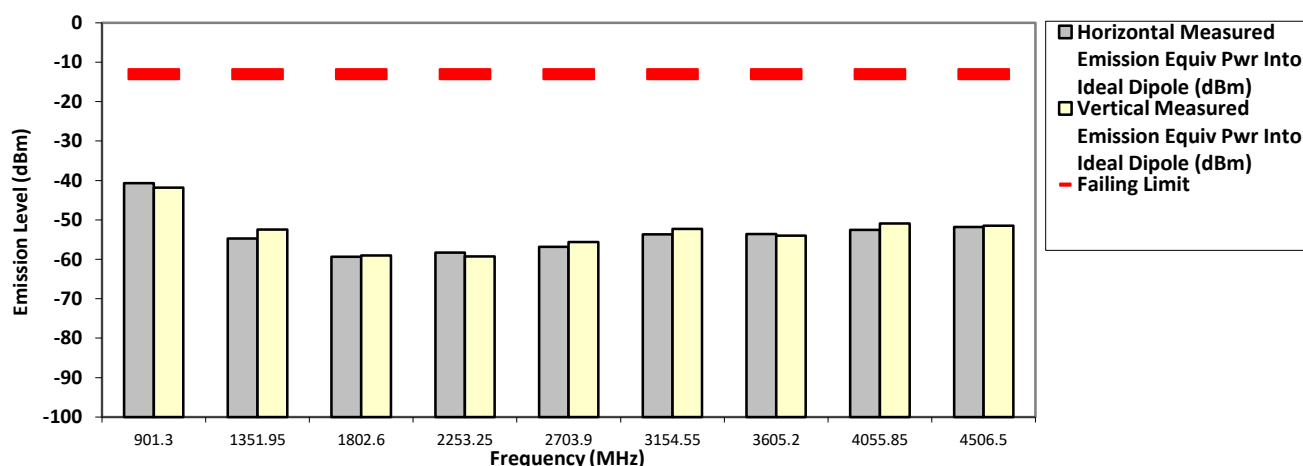
Model Number: AAH01QDC9JA2AN **S/N:** 752TUFQ444 **SR:**09138-EMC-00017

Battery Part No: PMNN4258AR **Accy Part No:** NA

Test Mode: TX Analog **450.650000 MHz** **25 kHz** **4.800 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)
901.3000	-13.0000	-40.6900 *	-41.8400 *
1351.9500	-13.0000	-54.6900 *	-52.4500 *
1802.6000	-13.0000	-59.3787 **	-59.0637 **
2253.2500	-13.0000	-58.3039 **	-59.2988 **
2703.9000	-13.0000	-56.8670 **	-55.6078 **
3154.5500	-13.0000	-53.6355 **	-52.2961 **
3605.2000	-13.0000	-53.5693 **	-53.9705 **
4055.8500	-13.0000	-52.5031 **	-50.9459 **
4506.5000	-13.0000	-51.8044 **	-51.4601 **

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, Mar 25, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:	Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

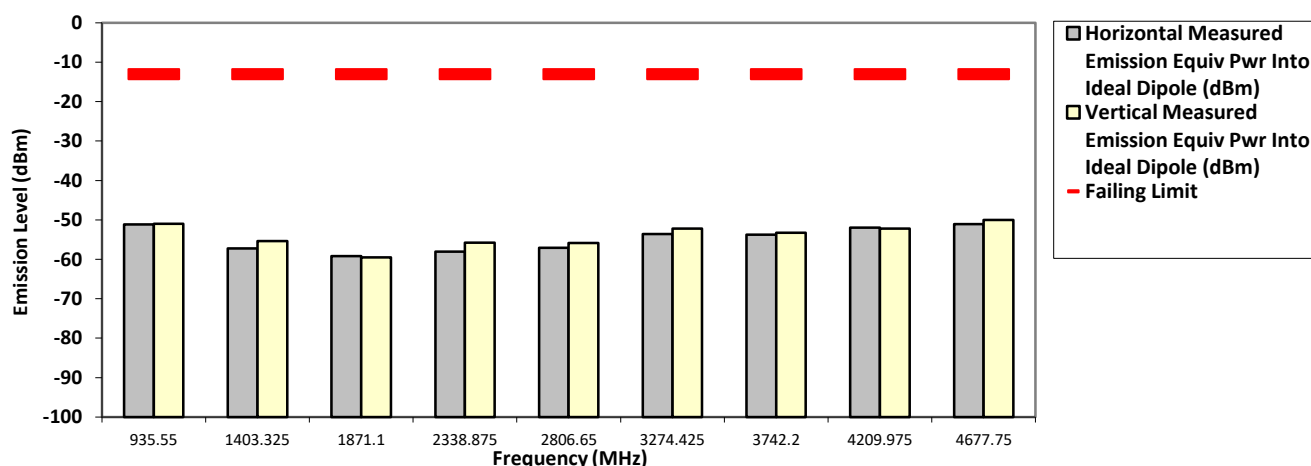
Model Number: AAH01QDC9JA2AN **S/N:** 752TUFQ444 **SR:**09138-EMC-00017

Battery Part No: PMNN4258AR **Accy Part No:** NA

Test Mode: TX Analog **467.775000 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)
935.5500	-13.0000	-51.1300 *	-50.9700 *
1403.3250	-13.0000	-57.2700 *	-55.3400 *
1871.1000	-13.0000	-59.1823 **	-59.5412 **
2338.8750	-13.0000	-58.0732 **	-55.7480 **
2806.6500	-13.0000	-57.1047 **	-55.8956 **
3274.4250	-13.0000	-53.5742 **	-52.1803 **
3742.2000	-13.0000	-53.7392 **	-53.2570 **
4209.9750	-13.0000	-51.9343 **	-52.1871 **
4677.7500	-13.0000	-51.1026 **	-50.0330 **

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, Mar 25, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:	Passed Results	Marginal Results	Failed Results
-----------------	----------------	------------------	----------------

SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN

S/N: 752TUFQ444

SR:09138-EMC-00017

Battery Part No: PMNN4258AR

Accy Part No: NA

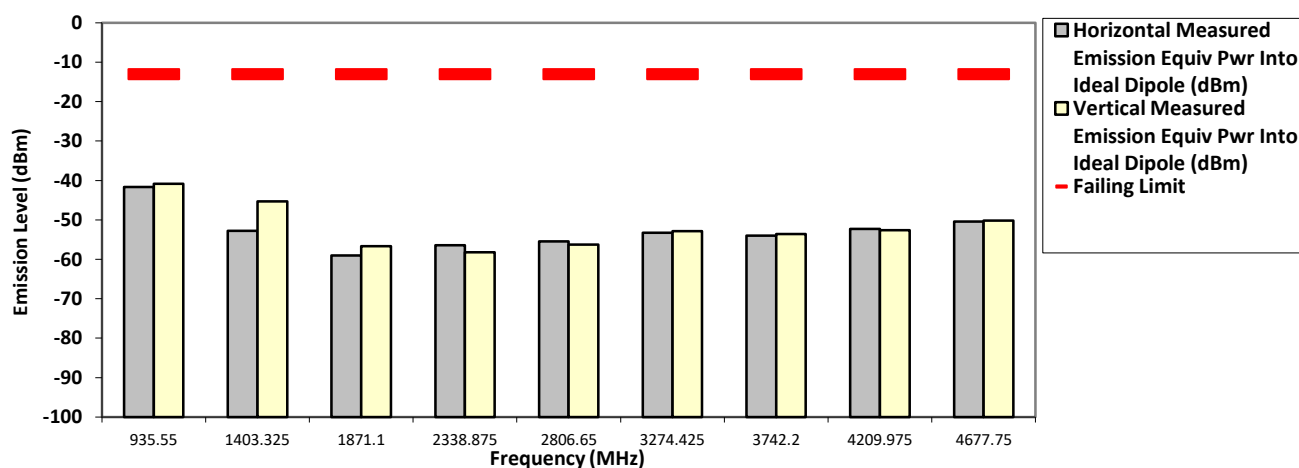
Test Mode: TX Analog
 25 kHz

467.775000 MHz

4.800 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)
935.5500	-13.0000	-41.6400 *	-40.8200 *
1403.3250	-13.0000	-52.7700 *	-45.2900 *
1871.1000	-13.0000	-59.0515 **	-56.6712 **
2338.8750	-13.0000	-56.4208 **	-58.2524 **
2806.6500	-13.0000	-55.4513 **	-56.2996 **
3274.4250	-13.0000	-53.2850 **	-52.8560 **
3742.2000	-13.0000	-54.0019 **	-53.5645 **
4209.9750	-13.0000	-52.2585 **	-52.6099 **
4677.7500	-13.0000	-50.4529 **	-50.1405 **

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, Mar 25, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

6.11.3. Test Result (Digital)

SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN

S/N: 752TUFQ444

SR:09138-EMC-00017

Battery Part No: PMNN4258AR

Accy Part No: NA

Test Mode: TX PCR Digital 4FSK

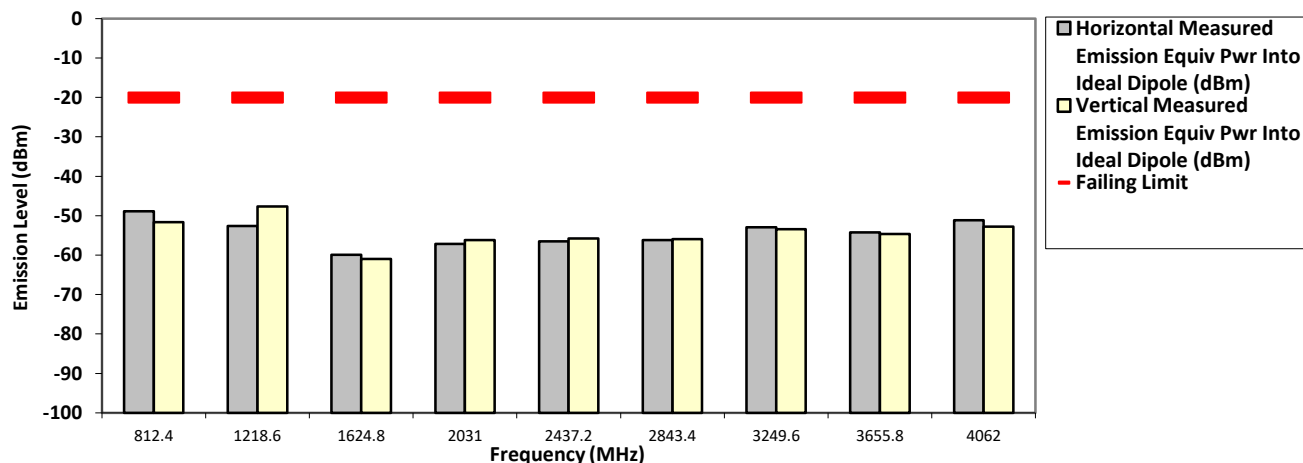
406.200000 MHz

12.5 kHz

4.800 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)
812.4000	-20.0000	-48.9200 *	-51.6700 *
1218.6000	-20.0000	-52.6300 *	-47.6400 *
1624.8000	-20.0000	-59.8916 **	-60.9915 **
2031.0000	-20.0000	-57.1220 **	-56.2238 **
2437.2000	-20.0000	-56.4972 **	-55.7584 **
2843.4000	-20.0000	-56.1930 **	-55.9632 **
3249.6000	-20.0000	-52.9454 **	-53.3876 **
3655.8000	-20.0000	-54.2414 **	-54.6595 **
4062.0000	-20.0000	-51.1899 **	-52.7846 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

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

Mon, Mar 26, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN

S/N: 752TUFQ444

SR:09138-EMC-00017

Battery Part No: PMNN4258AR

Accy Part No: NA

Test Mode: TX PCR Digital 4FSK

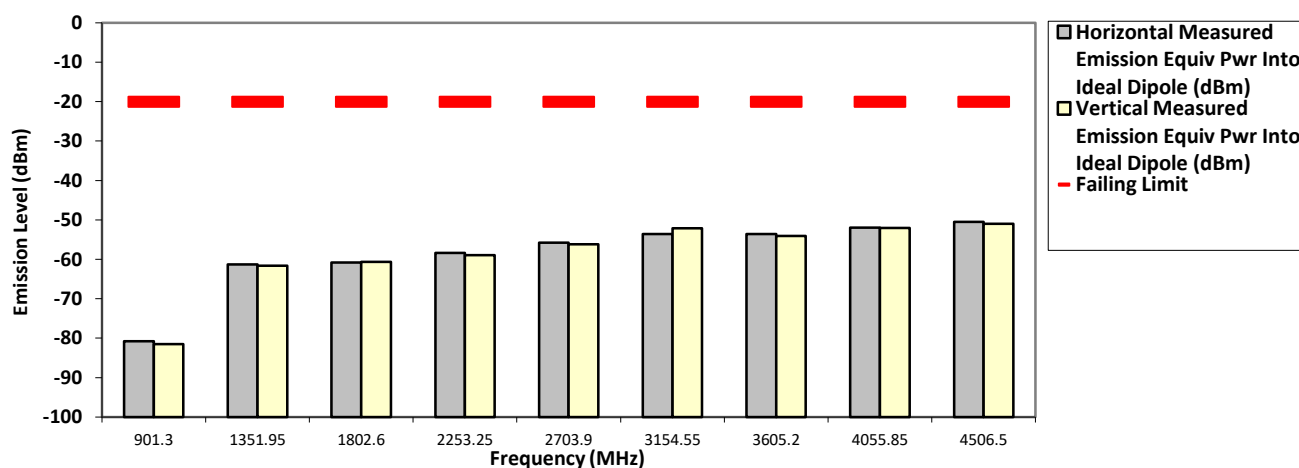
450.650000 MHz

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)
901.3000	-20.0000	-80.7887 **	-81.5553 **
1351.9500	-20.0000	-61.3399 **	-61.5911 **
1802.6000	-20.0000	-60.7795 **	-60.6321 **
2253.2500	-20.0000	-58.3988 **	-58.9687 **
2703.9000	-20.0000	-55.7973 **	-56.1890 **
3154.5500	-20.0000	-53.5697 **	-52.1321 **
3605.2000	-20.0000	-53.5743 **	-54.0889 **
4055.8500	-20.0000	-51.9948 **	-52.0553 **
4506.5000	-20.0000	-50.5283 **	-51.0289 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

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

Mon, Mar 26, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN

S/N: 752TUFQ444

SR:09138-EMC-00017

Battery Part No: PMNN4258AR

Accy Part No: NA

Test Mode: TX PCR Digital 4FSK

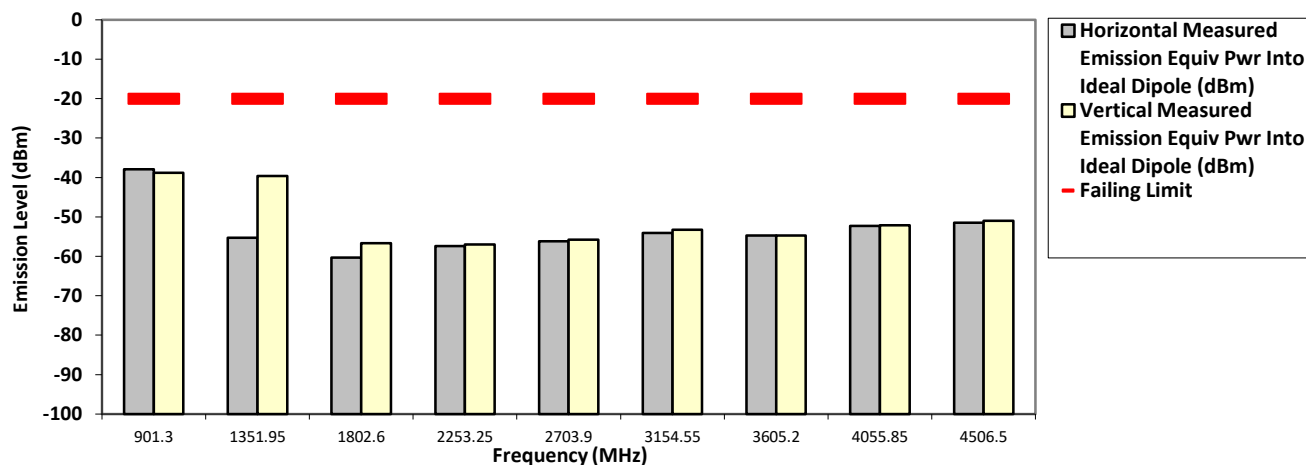
450.650000 MHz

12.5 kHz

4.800 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)
901.3000	-20.0000	-37.9300	-38.7800
1351.9500	-20.0000	-55.2800 *	-39.6200
1802.6000	-20.0000	-60.2924 **	-56.7104 **
2253.2500	-20.0000	-57.4445 **	-56.9977 **
2703.9000	-20.0000	-56.2053 **	-55.8134 **
3154.5500	-20.0000	-54.0785 **	-53.2884 **
3605.2000	-20.0000	-54.6910 **	-54.7557 **
4055.8500	-20.0000	-52.2520 **	-52.1117 **
4506.5000	-20.0000	-51.5181 **	-51.0326 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

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

Mon, Mar 26, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN

S/N: 752TUFQ444

SR:09138-EMC-00017

Battery Part No: PMNN4258AR

Accy Part No: NA

Test Mode: TX PCR Digital 4FSK

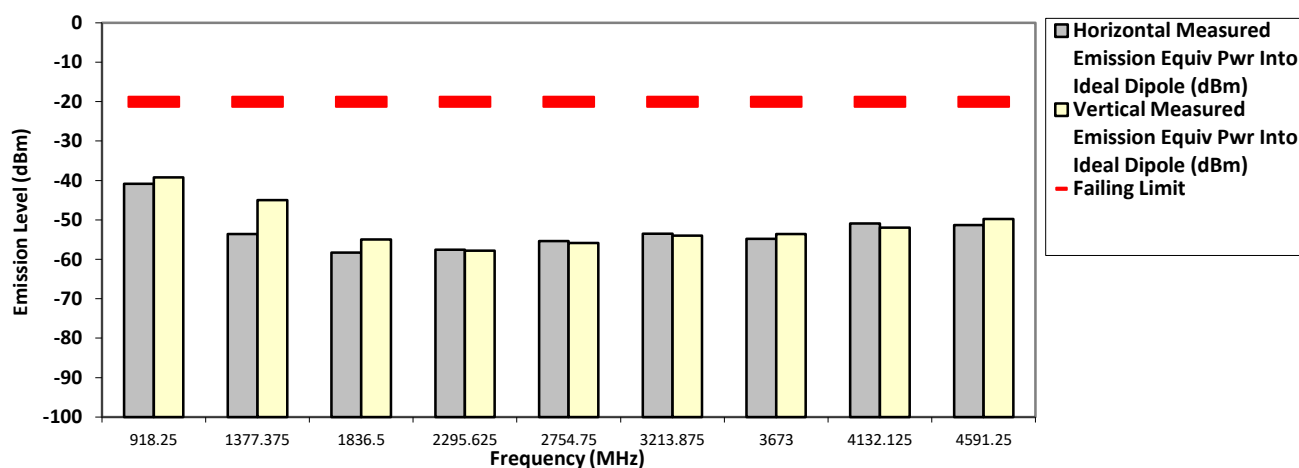
459.125000 MHz

12.5 kHz

4.800 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)
918.2500	-20.0000	-40.8500 *	-39.2100
1377.3750	-20.0000	-53.5600 *	-44.9700 *
1836.5000	-20.0000	-58.3282 **	-54.9630 **
2295.6250	-20.0000	-57.5525 **	-57.8361 **
2754.7500	-20.0000	-55.3503 **	-55.8242 **
3213.8750	-20.0000	-53.5487 **	-54.0330 **
3673.0000	-20.0000	-54.8357 **	-53.5749 **
4132.1250	-20.0000	-50.9242 **	-52.0009 **
4591.2500	-20.0000	-51.3410 **	-49.7587 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

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

Mon, Mar 26, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN

S/N: 752TUFQ444

SR:09138-EMC-00017

Battery Part No: PMNN4258AR

Accy Part No: NA

Test Mode: TX PCR Digital 4FSK

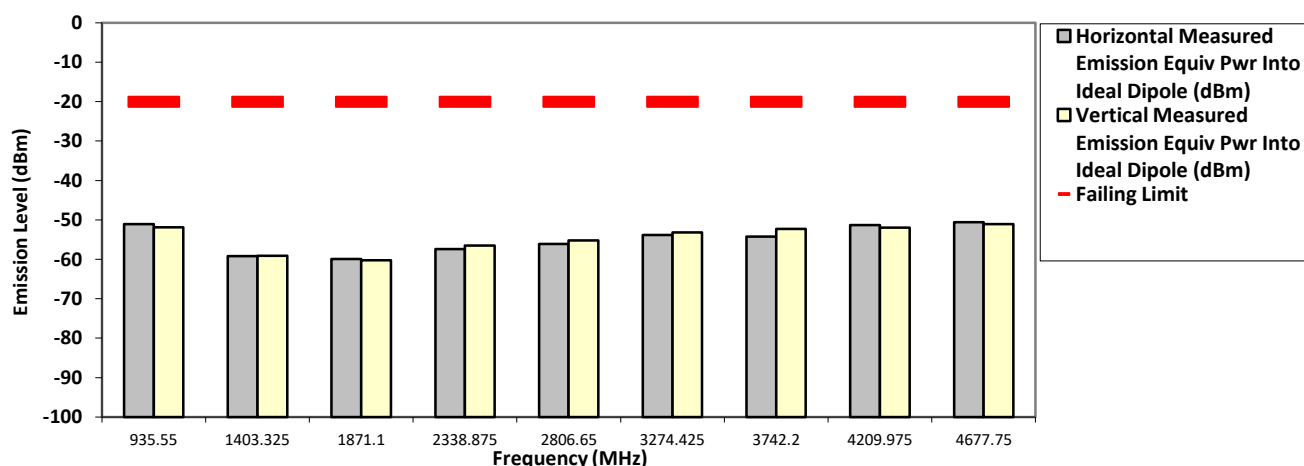
467.775000 MHz

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)
935.5500	-20.0000	-51.0800 *	-51.9100 *
1403.3250	-20.0000	-59.2156 **	-59.0832 **
1871.1000	-20.0000	-59.8819 **	-60.2339 **
2338.8750	-20.0000	-57.4242 **	-56.5497 **
2806.6500	-20.0000	-56.1450 **	-55.2508 **
3274.4250	-20.0000	-53.8018 **	-53.1784 **
3742.2000	-20.0000	-54.2006 **	-52.3170 **
4209.9750	-20.0000	-51.2975 **	-51.9275 **
4677.7500	-20.0000	-50.6267 **	-51.0484 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

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

Mon, Mar 26, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN

S/N: 752TUFQ444

SR:09138-EMC-00017

Battery Part No: PMNN4258AR

Accy Part No: NA

Test Mode: TX PCR Digital 4FSK

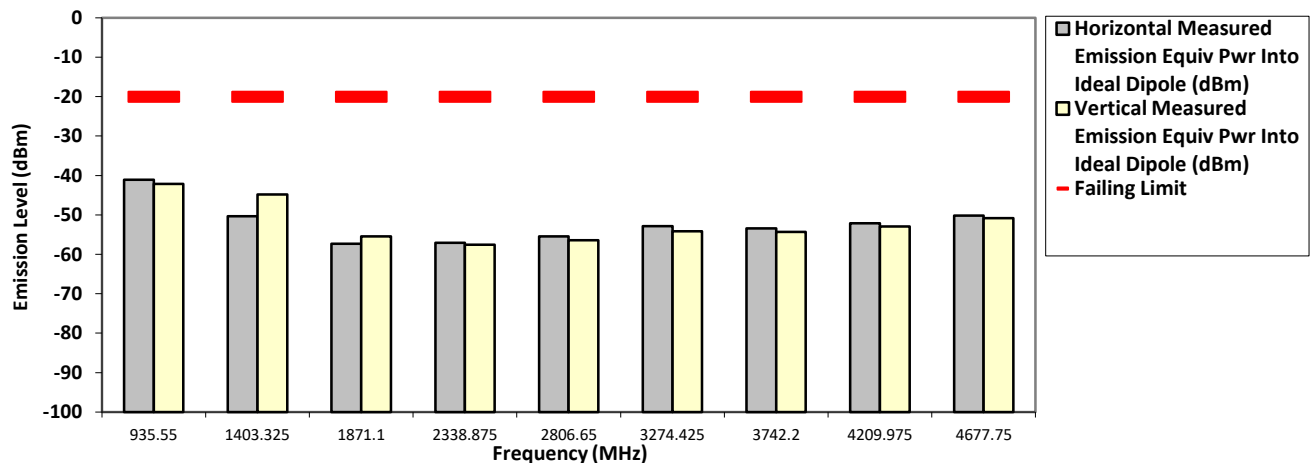
467.775000 MHz

12.5 kHz

4.800 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)
935.5500	-20.0000	-41.1100 *	-42.1200 *
1403.3250	-20.0000	-50.3100 *	-44.8300 *
1871.1000	-20.0000	-57.3101 **	-55.4702 **
2338.8750	-20.0000	-57.1079 **	-57.6029 **
2806.6500	-20.0000	-55.4181 **	-56.4001 **
3274.4250	-20.0000	-52.8960 **	-54.1272 **
3742.2000	-20.0000	-53.4175 **	-54.3524 **
4209.9750	-20.0000	-52.1566 **	-52.9014 **
4677.7500	-20.0000	-50.1527 **	-50.8141 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the TIA/EIA-603E document.

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

Mon, Mar 26, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

SAC Transmitter Radiated Emission:

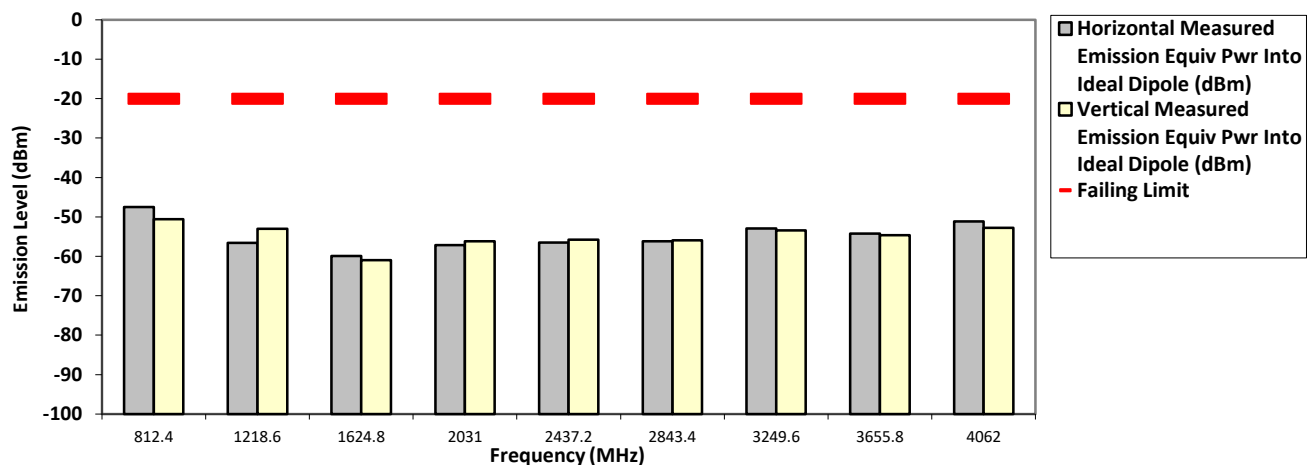
Model Number: AAH01QDC9JA2AN **S/N:** 752TUFQ444 **SR:**09138-EMC-00017

Battery Part No: PMNN4258AR **Accy Part No:** NA

Test Mode: TX PCR Digital 4FSK **406.200000 MHz** **12.5 kHz** **4.800 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)
812.4000	-20.0000	-47.4800 *	-50.5500 *
1218.6000	-20.0000	-56.6200 *	-53.0300 *
1624.8000	-20.0000	-59.8916 **	-60.9915 **
2031.0000	-20.0000	-57.1220 **	-56.2238 **
2437.2000	-20.0000	-56.4972 **	-55.7584 **
2843.4000	-20.0000	-56.1930 **	-55.9632 **
3249.6000	-20.0000	-52.9454 **	-53.3876 **
3655.8000	-20.0000	-54.2414 **	-54.6595 **
4062.0000	-20.0000	-51.1899 **	-52.7846 **

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, Mar 25, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: AAH01QDC9JA2AN **S/N:** 752TUFQ444 **SR:**09138-EMC-00017

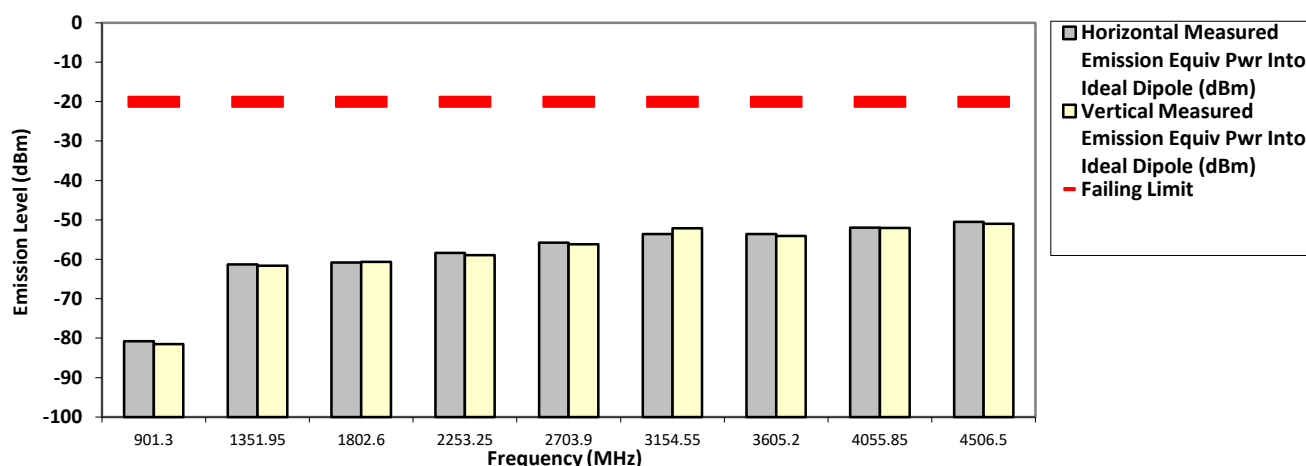
Battery Part No: PMNN4258AR **Accy Part No:** NA

Test Mode: TX PCR Digital 4FSK **1.000 Watt(s) /Low Power**

450.650000 MHz **12.5 kHz**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
901.3000	-20.0000	-80.7887 **	-81.5553 **
1351.9500	-20.0000	-61.3399 **	-61.5911 **
1802.6000	-20.0000	-60.7795 **	-60.6321 **
2253.2500	-20.0000	-58.3988 **	-58.9687 **
2703.9000	-20.0000	-55.7973 **	-56.1890 **
3154.5500	-20.0000	-53.5697 **	-52.1321 **
3605.2000	-20.0000	-53.5743 **	-54.0889 **
4055.8500	-20.0000	-51.9948 **	-52.0553 **
4506.5000	-20.0000	-50.5283 **	-51.0289 **

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, Mar 25, 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): 22.3 Hum(%RH): 70.1

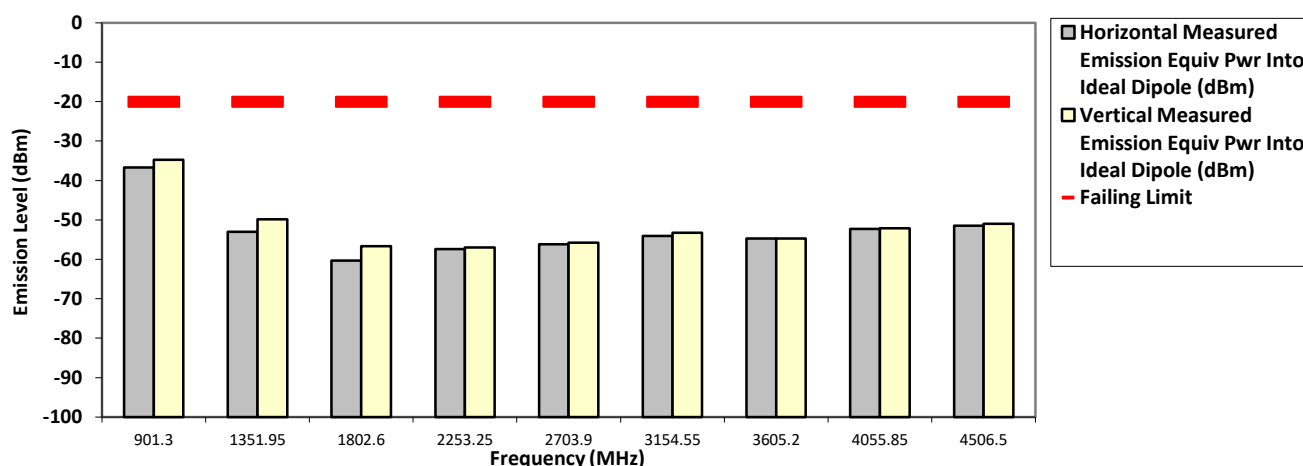
System MU: 5.01 dB

Remarks:	Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: AAH01QDC9JA2AN S/N: 752TUFQ444 SR:09138-EMC-00017
Battery Part No: PMNN4258AR Accy Part No: NA
Test Mode: TX PCR Digital 4FSK
450.650000 MHz 12.5 kHz 4.800 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)
901.3000	-20.0000	-36.7300	-34.7500
1351.9500	-20.0000	-52.9900 *	-49.8300 *
1802.6000	-20.0000	-60.2924 **	-56.7104 **
2253.2500	-20.0000	-57.4445 **	-56.9977 **
2703.9000	-20.0000	-56.2053 **	-55.8134 **
3154.5500	-20.0000	-54.0785 **	-53.2884 **
3605.2000	-20.0000	-54.6910 **	-54.7557 **
4055.8500	-20.0000	-52.2520 **	-52.1117 **
4506.5000	-20.0000	-51.5181 **	-51.0326 **

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, Mar 25, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

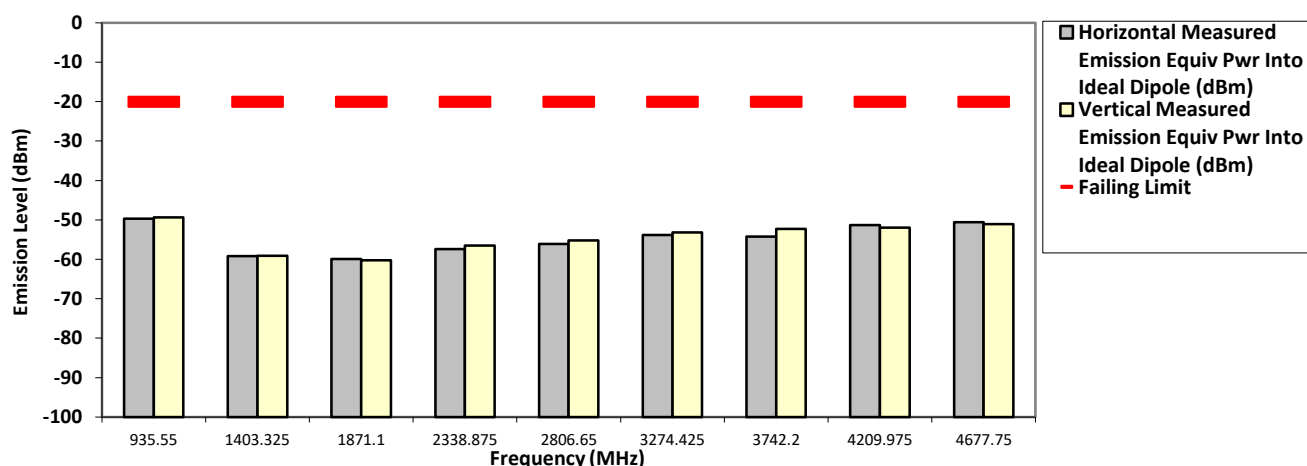
Remarks:

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

SAC Transmitter Radiated Emission:
Model Number: AAH01QDC9JA2AN S/N: 752TUFQ444 SR:09138-EMC-00017
Battery Part No: PMNN4258AR Accy Part No: NA
Test Mode: TX PCR Digital 4FSK
467.775000 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)
935.5500	-20.0000	-49.6700 *	-49.3600 *
1403.3250	-20.0000	-59.2156 **	-59.0832 **
1871.1000	-20.0000	-59.8819 **	-60.2339 **
2338.8750	-20.0000	-57.4242 **	-56.5497 **
2806.6500	-20.0000	-56.1450 **	-55.2508 **
3274.4250	-20.0000	-53.8018 **	-53.1784 **
3742.2000	-20.0000	-54.2006 **	-52.3170 **
4209.9750	-20.0000	-51.2975 **	-51.9275 **
4677.7500	-20.0000	-50.6267 **	-51.0484 **

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, Mar 25, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

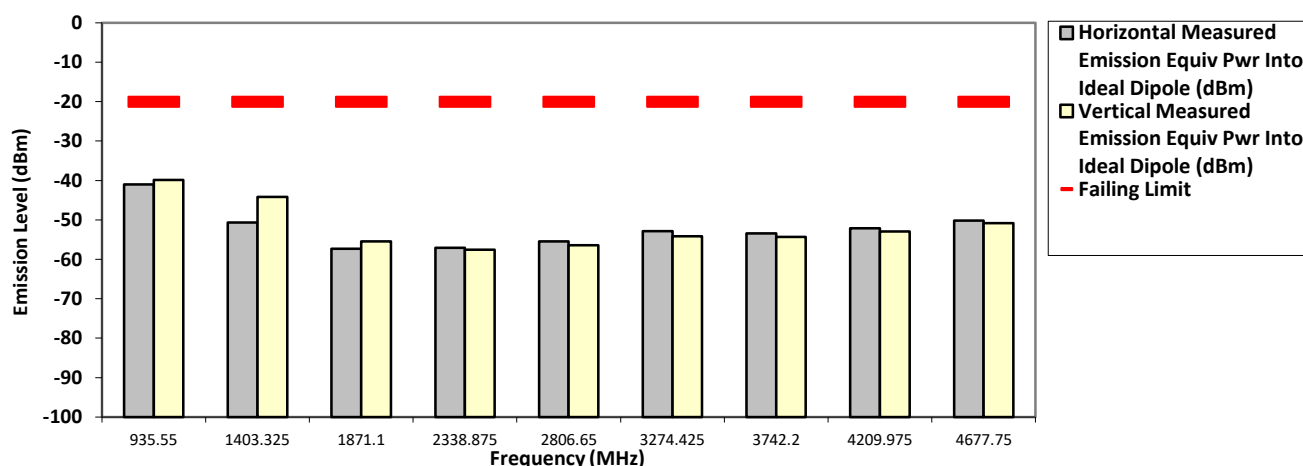
Remarks:

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

SAC Transmitter Radiated Emission:
Model Number: AAH01QDC9JA2AN S/N: 752TUFQ444 SR:09138-EMC-00017
Battery Part No: PMNN4258AR Accy Part No: NA
Test Mode: TX PCR Digital 4FSK
467.775000 MHz 12.5 kHz 4.800 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)
935.5500	-20.0000	-40.9800 *	-39.8400
1403.3250	-20.0000	-50.6700 *	-44.1500 *
1871.1000	-20.0000	-57.3101 **	-55.4702 **
2338.8750	-20.0000	-57.1079 **	-57.6029 **
2806.6500	-20.0000	-55.4181 **	-56.4001 **
3274.4250	-20.0000	-52.8960 **	-54.1272 **
3742.2000	-20.0000	-53.4175 **	-54.3524 **
4209.9750	-20.0000	-52.1566 **	-52.9014 **
4677.7500	-20.0000	-50.1527 **	-50.8141 **

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, Mar 25, 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): 22.3 Hum(%RH): 70.1

System MU: 5.01 dB

Remarks:

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

6.11.4. Test Limit

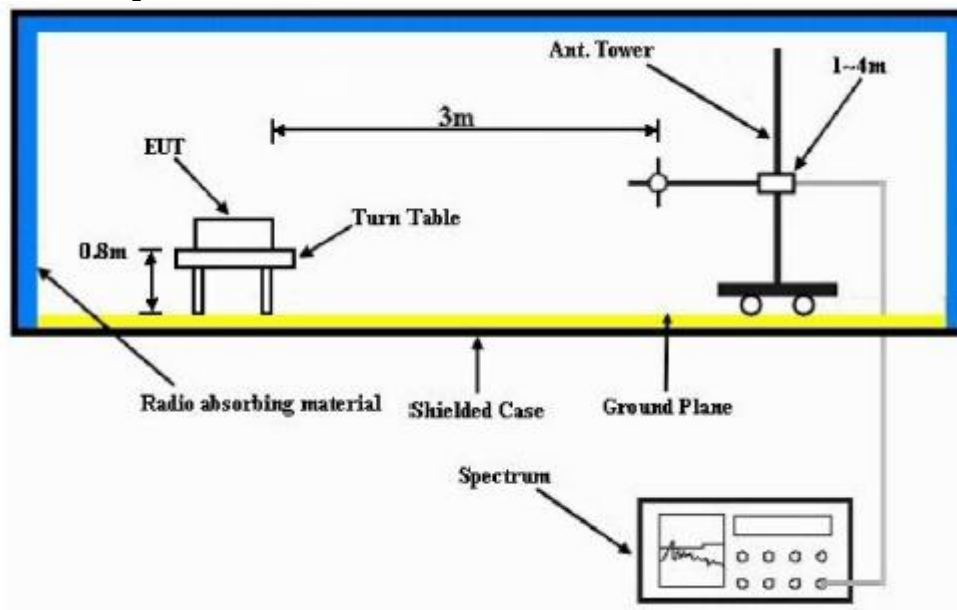
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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 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

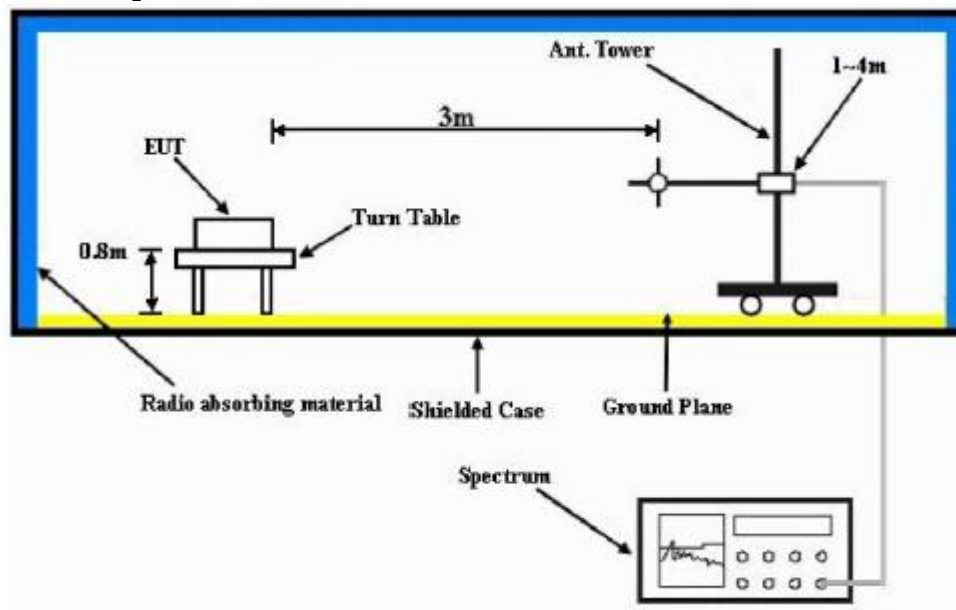
Not Applicable

6.12.3. Test Limit

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