MOTOROLA SOLUTIONS

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 / IC TEST REPORT
Report Revision : Rev.B

Date/s Tested	:	22-NOV-2016 - 21-DEC-2016
Report Issue Date	:	24-MAY-2017
Manufacturer/Location	:	Motorola Solutions Malaysia Sdn Bhd
Requestor	:	Mohd Afiq Azfar Jamani
Product Type	:	Portable
Model Number	:	H92UCH9PW7AN
Frequency Band	:	764-870 MHz
Low / Max RF Output Power	:	1 Watts / 3.6 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
FCC Registrations	:	772092
IC Registrations	:	109AK

The equipment was tested accordance to the requirement listed below:

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

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Prepared By:

Edmond Too
Test Personnel

Approved By:

Goh Aik Hong
Responsible Engineer

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Report Revision History

Revision History	Description	Date	Originator
Rev. A	Initial Release	24-JAN-2017	**Edmond Too**
Rev. B	Updated Page182 to replace product with Model Number.	24-MAY-2017	**Edmond Too**

1.0 General Information

EUT Description:

Technologies	Land Mobile Radio (LMR)
Modulation Type	Analog, C4FM, Phase II

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/TIA/-603-D
ANSI C63.4.2014
TIA-102 CCAA-A
TIA-102 CAAB-D
TIA-102 CAAA-D
ANSI C63.26-1315

2.0 Summary of Test Results

FCC General Rules Part (47CFR)	IC General Rules Part	Test Item	Result
2.1046, 90.541 (700MHz Only)	RSS-Gen, RSS-119 (4.1,5.4)	RF Power Output	Pass
2.1055, 90.213, 90.539 (700MHz Only)	RSS-Gen, RSS-119(5.3)	Frequency Stability	Pass
2.1047	-	Audio Frequency Response	Pass
2.1047	-	Audio Low Pass Filter Response	Pass
2.1047	-	Modulation limiting	Pass
2.1049, 90.210, 90.691 (800MHz only), 90.543(d) (700MHz only)	RSS-Gen, RSS-119 (5.5)	Occupied Bandwidth	Pass
-	-	Band Edge Conducted Spurious Emission	NA
-	-	Transient Frequency Behavior	NA
90.543 (700MHz Only)	RSS 119 (4.3, 5.8.9.1) (700MHz only)	Adjacent Channel Power	Pass
2.1051, 90.210, 90.543 (700MHz Only)	RSS-Gen, RSS-119 (4.2, 5.8)	Conducted Spurious Emissions	Pass
2.1053, 90,210, 90.543 (700MHz Only)	RSS-Gen, RSS-119 (4.2, 5.8)	Radiated Spurious Emission	Pass
90.543 (f) (700MHz Only)	RSS 119 Sec 5.8.9.2 (700MHz Only)	GNSS (EIRP for 1559 – 1610MHz)	Pass
90.541 (d), (e) (700MHz Only)	RSS-119 (5.4) (700MHz Only)	Effective Radiated Power (ERP)	Pass
-	-	AC Power Line Conducted Spurious Emission	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

4.0 Equipment List

FCC Analog ATE#1:
(SW Revision: Analog Ate_Main_v2.4.2 & FCC_FreqStability_Rev1.0.3)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
Audio Analyzer	8903B	3011A10475	13-Apr-16	13-Apr-17
SIGNAL GENERATOR	2042	203002/745	14-Apr-16	14-Apr-17
MODULATION ANALYZER	8901B	3216A03889	13-Apr-16	13-Apr-17
TRANSCEIVER INTERFACE	8954A	2234A00398	12-Apr-16	12-Apr-17
DSA	36570A	MY42506781	15-Apr-16	15-Apr-17
SIGNAL GENERATOR	E4425B	US39260201	14-Apr-16	14-Apr-17
SIGNAL GENERATOR	2042	203002/747	14-Apr-16	14-Apr-17
POWER SENSOR	E4412A	MY41502652	21-Apr-16	21-Apr-17
POWER METER	E4416A	GB41293855	22-Apr-16	22-Apr-17
POWER SUPPLY	6031A	3325A02771	19-Apr-16	19-Apr-17
CHAMBER	SHH-641	92014678	6-Apr-16	6-Apr-17
RF TRANSCEIVER CONTROLLER	AX2007AI	NA	CNR	CNR

FCC Transient ATE #1: (SW Revision: FCC Transient ATE_R1.0.3)

POWER METER	E4416A	GB41293866	21-Apr-16	21-Apr-17
ATTENUATORS/SWITCH DRIVER	11713A	2508A10141	CNR	CNR
STEP ATTENUATOR/11dB	8494G	MY52300223	16-Jun-16	16-Jun-17
STEP ATTENUATOR/110dB	8496G	MY52300176	15-Jun-16	15-Jun-17
OSCILLOSCOPE	MSO8064A	MY48240107	26-Apr-16	26-Apr-17
AUDIO ANALYZER	8903B	3729A17409	14-Apr-16	14-Apr-17
AUDIO ANALYZER	8903B	3011A08952	13-Apr-16	13-Apr-17
MODULATION ANALYZER	8901B	3019A02766	13-Apr-16	13-Apr-17
SIGNAL GENERATOR	8657A	3323A05725	13-Apr-16	13-Apr-17
SPECTRUM ANAYLYZER	E4440A	MY46185415	22-Apr-16	22-Apr-17

CONDUCTED SPUR EMISSION ATE # 1: (SW Revision: Conducted Spur ATE_Rev1.22.06)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A32735	CNR	CNR
SPECTRUM ANALYZER	E4445A	MY45301089	17-Jul-15	17-Jul-17
POWER SUPPLY	6032A	3319A08920	19-Apr-16	19-Apr-17
HIGH PASS FILTER SWITCH BOX	CS	CS001	25-Aug-16	25-Aug-17
MICROWAVE GENERATOR	SMP 02	830682/015	18-Oct-16	18-Oct-17
MODULATION ANALYZER	8901B	3438A05278	12-Apr-16	12-Apr-17

Radiated Emission Station: (SW Revision: EMC_FCC_IC_BT_RE_V1.5.0)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DRG HORN FREQ.	SAS-571	566	04-Sep-16	04-Sep-17
DRG HORN FREQ.	SAS-571	719	28-Apr-15	28-Apr-17
BILOG ANTENNA	CBL6112B	2964	23-Jan-15	23-Jan-17
POWER SUPPLY	6674A	3126A00133	12-Nov-15	12-Nov-17
MICROWAVE SIGNAL GENERATOR	SMP04	100127	03-Jul-12	03-Jul-17
TEST RECEIVER	ESIB26	100336	19-Oct-16	19-Oct-17
SIGNAL ANALYZER	FSV40	101103	25-Jun-16	25-Jun-17
5m SEMI-ANECHOIC CHAMBER	S800-HX	J2308	29-Jul-16	29-Jul-17
BILOG ANTENNA	CBL6112D	25516	23-Jan-16	23-Jan-17
BROAD-BAND HORN ANTENNA	BBH9170	BBHA9170143	24-Nov-14	24-Nov-17
DATA LOGGER	8903B	3011A09202	19-Aug-16	19-Aug-17
POWER SUPPLY	TM320	12249289	27-Apr-16	27-Apr-17
SYSTEM CONTROLLER	SC104V	050806-1	CNR	CNR
TURNTABLE FLUSH MOUNT 2M	FM2011	NA	CNR	CNR
ANTENNA POSITIONING TOWER	TLT2	NA	CNR	CNR
18 - 40GHz PREAMPLIFIER	BBV9721	9721-007	CNR	CNR
PREAMPLIFIER	PAM-0118P	361	CNR	CNR

CNR → Calibration Not Required

5.0 Test Condition

5.1. Transmitter Test Conditions

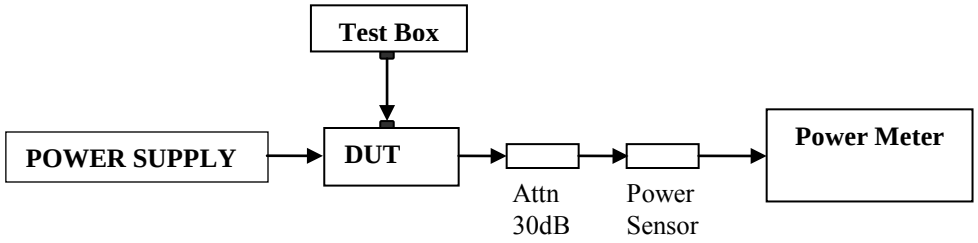
Test Item, (Channel Spacing)	Temperature (°C)	Voltage Supply (V)	Power (W)	Modulation	Test Frequency (MHz)
RF Output Power	25°C	Nominal	Low / Max	Analog	764.0125, 768.0125, 769.0125, 769.0875, 774.8875, 775.9875, 798.0125, 804.9125, 805.9875, 806.0125, 823.9875, 851.0125, 860.0125, 868.8875
Frequency Stability	-30°C ~ 60°C	80% ~ 120% of Nominal Volt	Max	Analog	769.0875, 823.9875
Audio Frequency Response (12.5kHz / 25kHz)	25°C	Nominal	Max	Analog	769.0875, 823.9875
Audio Low Pass Filter Response (12.5kHz / 25kHz)	25°C	Nominal	Max	Analog	769.0875, 823.9875
Modulation limiting (12.5kHz / 25kHz)	25°C	Nominal	Max	Analog	769.0875, 823.9875
Occupied Bandwidth (12.5kHz / 20kHz / 25kHz)	25°C	Nominal	Max	Analog, Digital	806.0125, 814.9875, 823.9875, 851.0125, 860.0125, 868.8875
Band Edge Conducted Spurious Emission (12.5kHz / 20kHz / 25kHz)	25°C	Nominal	Max	Analog, Digital	NA
Transient Frequency Behavior *(UHF & VHF Band)* (12.5kHz / 25kHz)	25°C	Nominal	Max	Analog, Digital	NA
Adjacent Channel Power *(700MHz Band)* (12.5kHz / 25kHz)	25°C	Nominal	Max	Analog, Digital	769.0875, 774.8875, 799.0875, 804.9125
Conducted Spurious Emissions (12.5kHz / 20kHz / 25kHz)	25°C	Nominal	Low / Max	Analog, Digital	764.0125, 769.0125, 769.0875, 774.8875, 799.0875, 804.9125, 806.0125, 814.9875, 823.9875, 851.0125, 860.0125, 868.8875
Radiated Spurious Emission (12.5kHz / 25kHz)	25°C	Nominal	Low / Max	Analog, Digital	
GNSS *(700MHz Band)* (EIRP for 1559-1610MHz) (12.5kHz / 25kHz)	25°C	Nominal	Max	Analog	799.0875, 804.9125
Effective Radiated Power (ERP) *(700MHz & 900MHz Band)* (12.5kHz / 25kHz)	25°C	Nominal	Max	Analog	769.0125, 769.0875, 799.0125, 804.9125
AC Power Line Conducted Spurious Emissions* (12.5kHz)	25°C	Nominal	Max	Analog	NA

*** – ONLY tested if portables can be operated during charging OR mobiles can be used in desktop operation connected to a power supply (NA → Not Applicable)**

6.0 Transmitter Test Parameters

6.1. RF Output Power

6.1.1. Test Setup



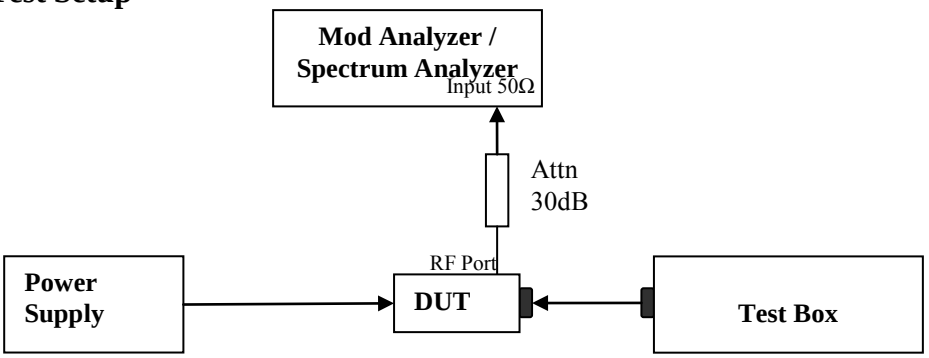
1) The DUT transmitter connected to Power Meter using the 30 dB attenuator and power sensor with above setup.
2) Path loss for the measurement included.
3) All the measurement was done at low, mid, high frequency for each band.
4) Record the power into the test report.

6.1.2. Test Result

Temperature	25				
Voltage (V)	7.5				
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)	Remarks
764.0125	0.98	1.01	2.96	1.55	Not for FCC review
768.0125	1	1.02	2.96	1.56	Not for FCC review
769.0125	1	1.02	2.95	1.55	
769.0875	1	1.01	2.95	1.56	
774.8875	0.99	1.01	2.95	1.55	
775.9875	0.99	1.01	2.95	1.55	Not for FCC review
798.0125	0.994	1.02	2.94	1.55	Not for FCC review
799.0875	0.994	1.02	2.94	1.56	
804.9125	0.992	1.01	2.94	1.55	
805.9875	0.992	1.02	2.94	1.55	Not for FCC review
806.0125	0.98	0.96	3.51	1.56	
814.9875	1.03	1	3.44	1.57	
823.9875	1.01	0.99	3.46	1.59	
851.0125	1.01	0.98	3.55	1.68	
860.0125	0.97	1.03	3.57	1.7	
868.8875	1.03	1.04	3.57	1.7	

6.2. Frequency Stability

6.2.1. Test Setup

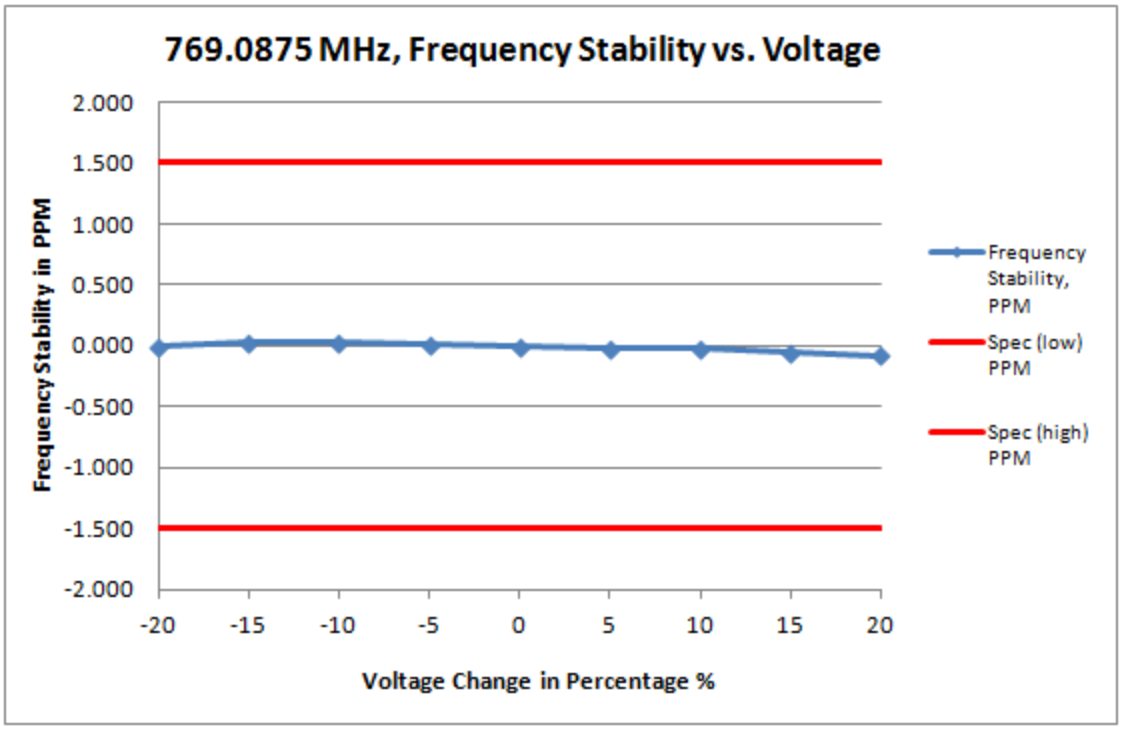


1) The DUT transmitter output port was connected to Modulation Analyzer.
2) Path loss for the measurement included.
3) Transmit the DUT and record the freq in MCF_{MHz}.
4) Test in 2 conditions: Different Temperature & Supply Voltage input.
   - Temperature: Vary voltage per test condition in Clause 5.1
   - Supply Voltage: Vary temperature per test condition in Clause 5.1
5) Calculate the ppm frequency error by the following:

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

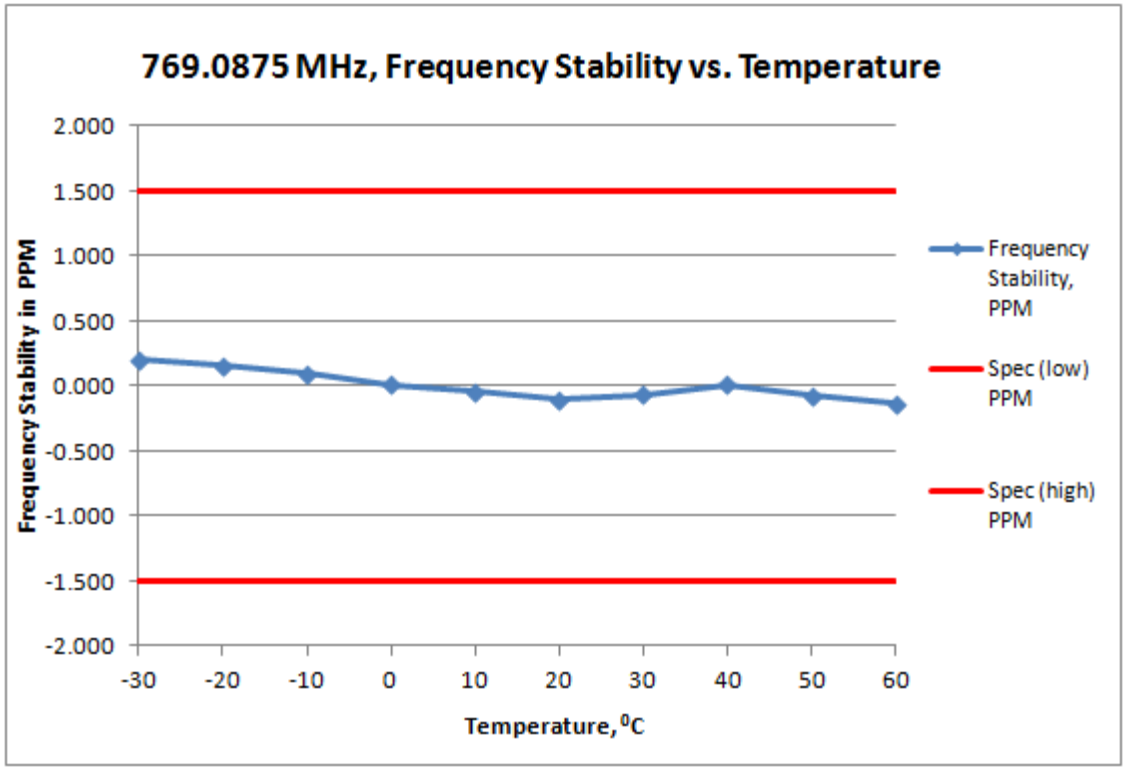
Where: MCF_{MHz} is the Measured Carrier Frequency in MHz
ACF_{MHz} is the Assigned Carrier Frequency in MHz

6.2.2. Test Result



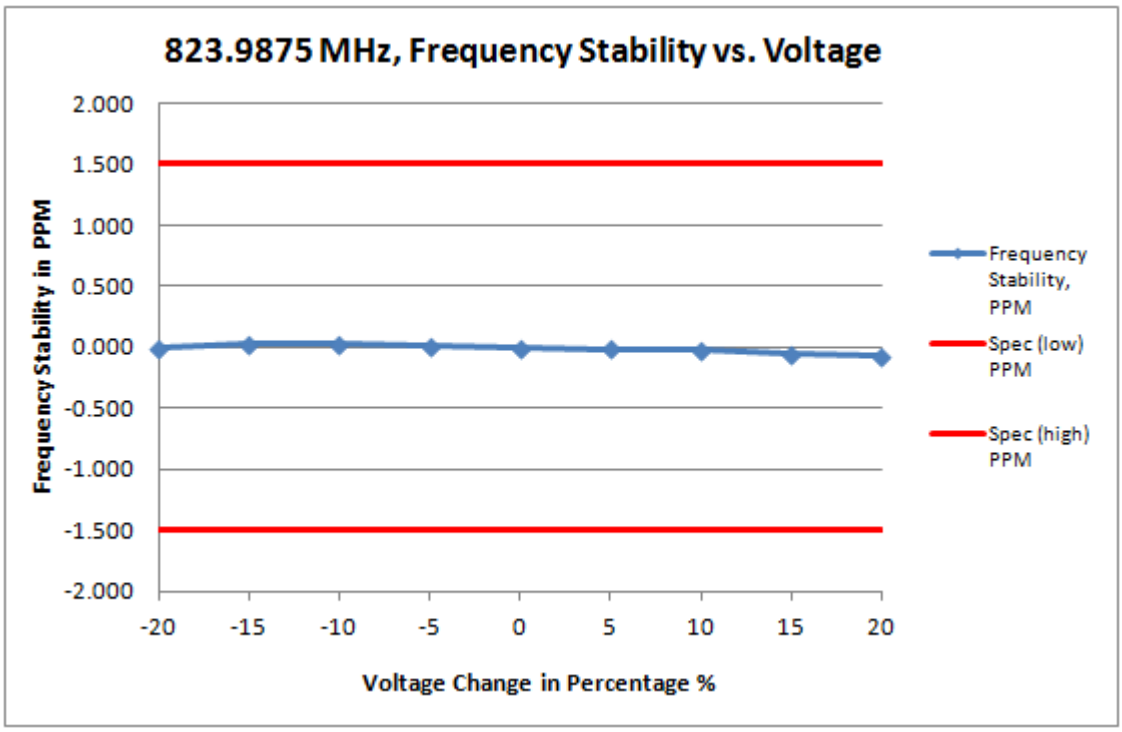
(i) Frequency Stability VS Voltage

Frequency / Channel Spacing	769.0875 MHz / 12.50 kHz				
Temperature, °C	25				
Voltage %	Voltage, V	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-20	6.000	769.087520	0.000	-1.500	1.500
-15	6.375	769.087520	0.026	-1.500	1.500
-10	6.750	769.087510	0.026	-1.500	1.500
-5	7.125	769.087510	0.013	-1.500	1.500
0	7.500	769.087500	0.000	-1.500	1.500
5	7.875	769.087490	-0.013	-1.500	1.500
10	8.250	769.087480	-0.026	-1.500	1.500
15	8.625	769.087460	-0.052	-1.500	1.500
20	9.000	769.087440	-0.078	-1.500	1.500



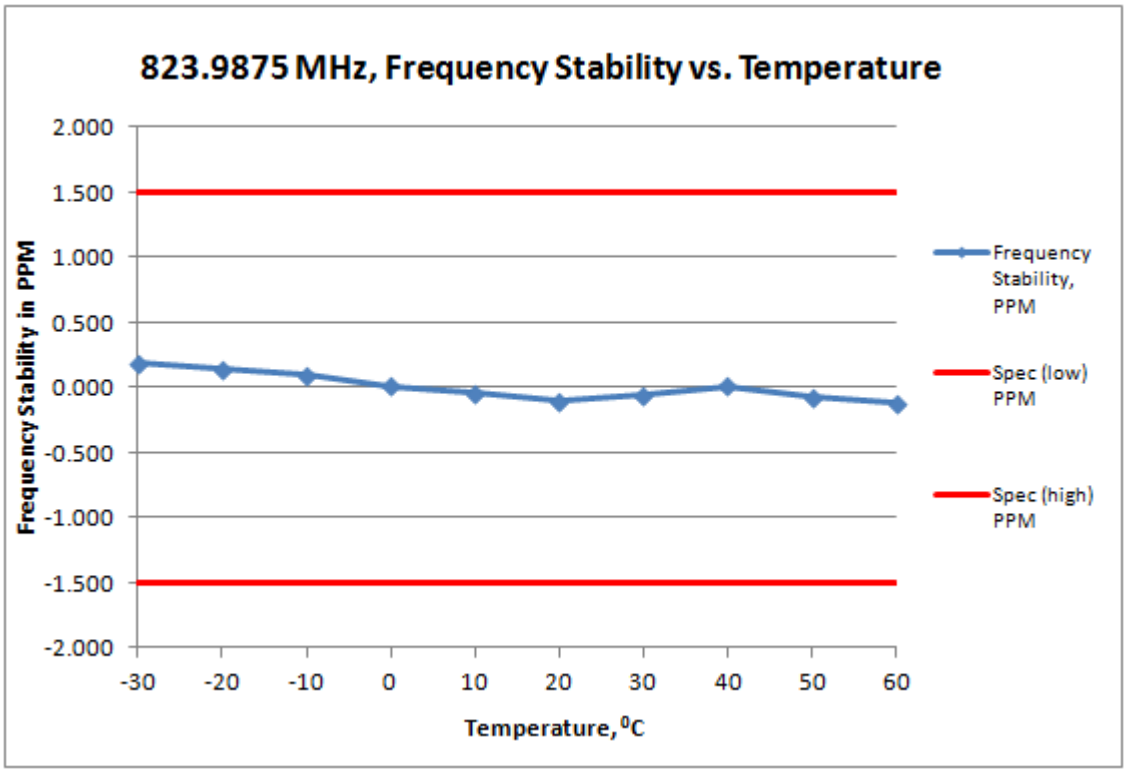
(ii) Frequency Stability VS temperature

Frequency / Channel Spacing	769.0875 MHz / 12.50 kHz			
Voltage, V	7.5			
Temperature, °C	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-30	769.087660	0.208	-1.500	1.500
-20	769.087620	0.156	-1.500	1.500
-10	769.087580	0.104	-1.500	1.500
0	769.087510	0.013	-1.500	1.500
10	769.087470	-0.039	-1.500	1.500
20	769.087420	-0.104	-1.500	1.500
30	769.087450	-0.065	-1.500	1.500
40	769.087510	0.013	-1.500	1.500
50	769.087440	-0.078	-1.500	1.500
60	769.087400	-0.130	-1.500	1.500



(i) Frequency Stability VS Voltage

Frequency / Channel Spacing	823.9875 MHz / 12.50 kHz				
Temperature, °C	25				
Voltage %	Voltage, V	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-20	6.000	823.987520	0.000	-1.500	1.500
-15	6.375	823.987520	0.024	-1.500	1.500
-10	6.750	823.987510	0.024	-1.500	1.500
-5	7.125	823.987510	0.012	-1.500	1.500
0	7.500	823.987500	0.000	-1.500	1.500
5	7.875	823.987490	-0.012	-1.500	1.500
10	8.250	823.987480	-0.024	-1.500	1.500
15	8.625	823.987460	-0.049	-1.500	1.500
20	9.000	823.987440	-0.073	-1.500	1.500



(ii) Frequency Stability VS temperature

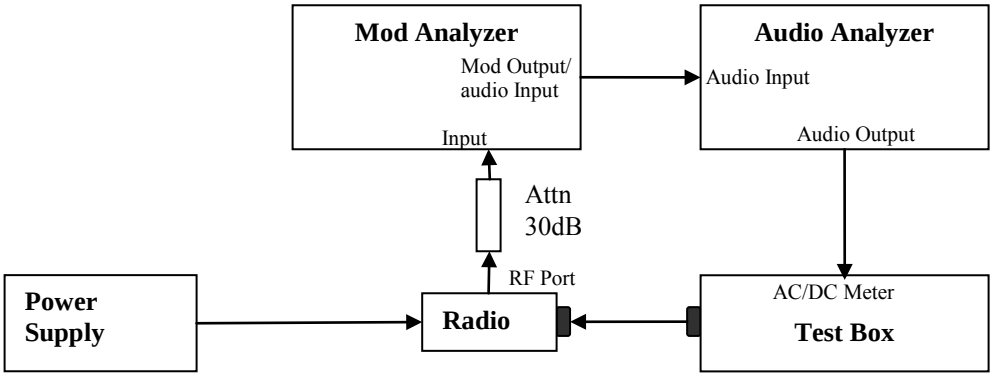
Frequency / Channel Spacing	823.9875 MHz / 12.50 kHz			
Voltage, V	7.5			
Temperature, °C	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-30	823.987660	0.194	-1.500	1.500
-20	823.987620	0.146	-1.500	1.500
-10	823.987580	0.097	-1.500	1.500
0	823.987510	0.012	-1.500	1.500
10	823.987470	-0.036	-1.500	1.500
20	823.987420	-0.097	-1.500	1.500
30	823.987450	-0.061	-1.500	1.500
40	823.987510	0.012	-1.500	1.500
50	823.987440	-0.073	-1.500	1.500
60	823.987400	-0.121	-1.500	1.500

6.2.3. Test Limit

As per manufacturer declared spec +/- 1.5ppm

6.3. Audio Frequency Response

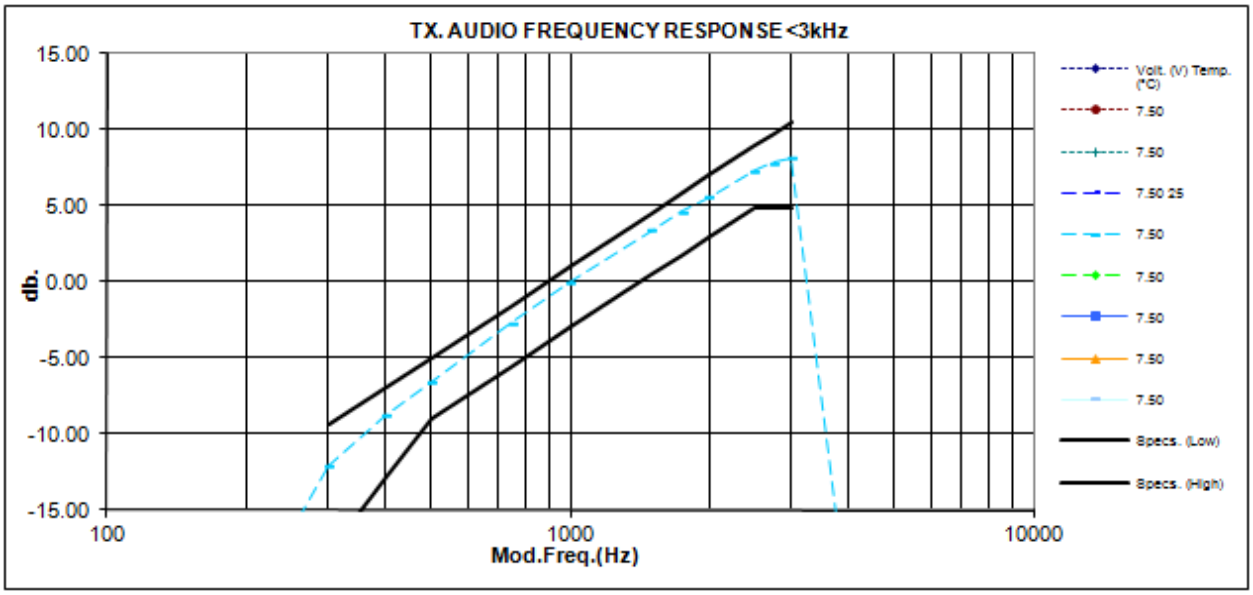
6.3.1. Test Setup



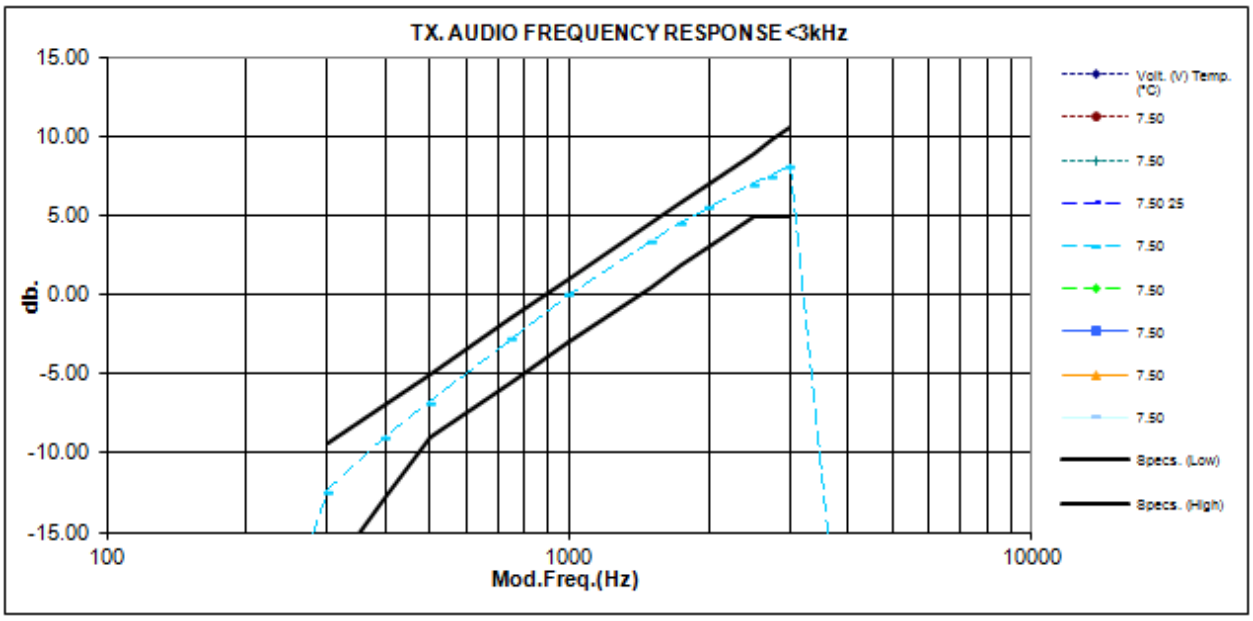
1) The DUT transmitter output port was connected to Modulation Analyzer.
2) Path loss for the measurement included.
3) Set the audio bandwidth filter to 15 kHz and 50 kHz.
4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 20% of the maximum deviation.
5) On audio analyzer, 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

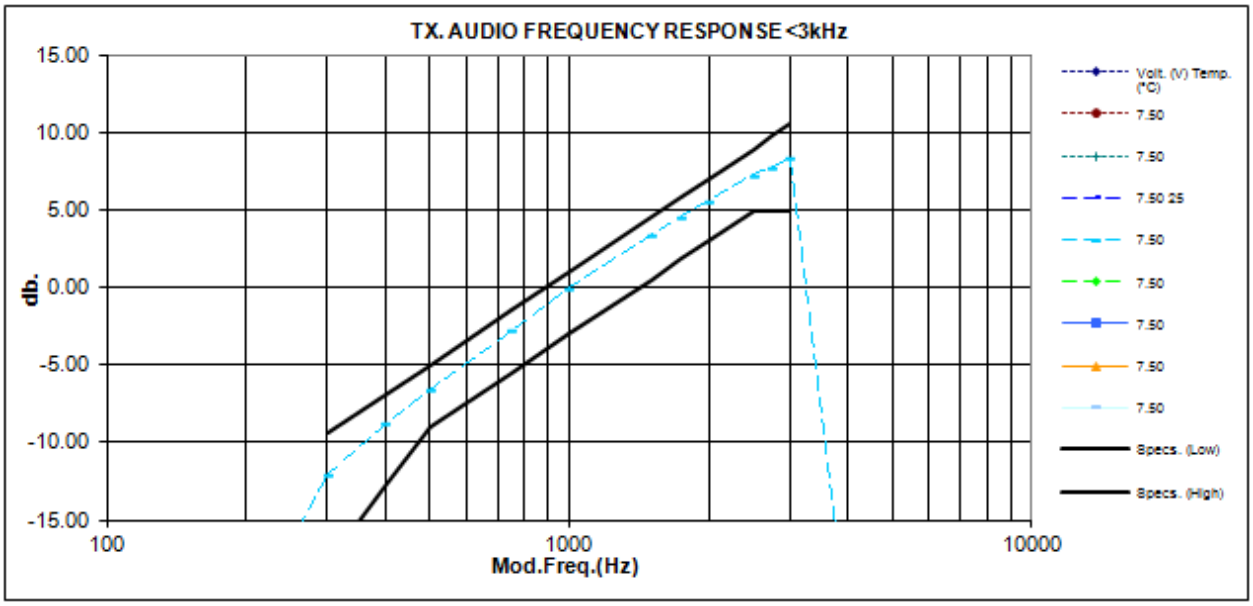
769.0875 MHz, 12.5 kHz Channel Spacing, Max Power



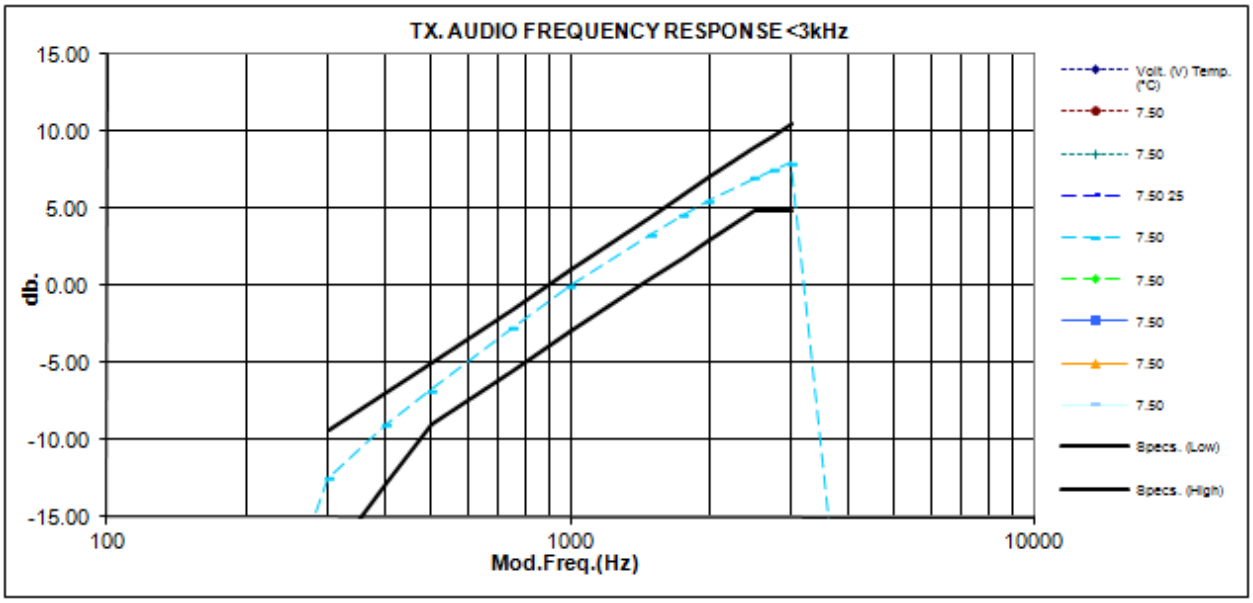
769.0875 MHz, 25.0 kHz Channel Spacing, Max Power



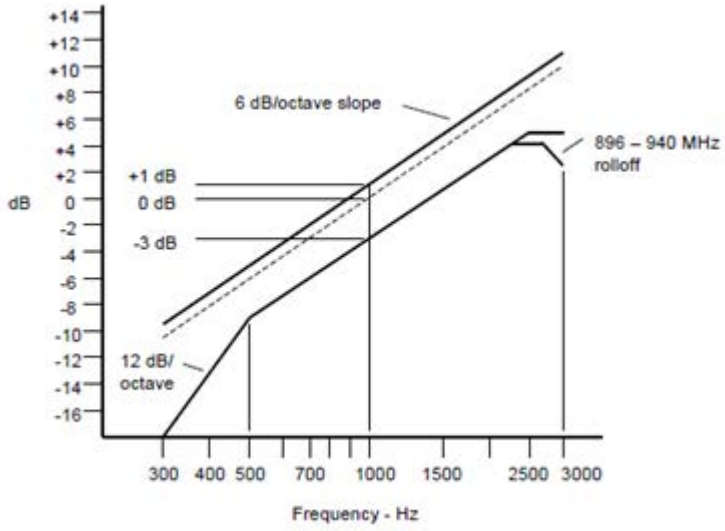
823.9875 MHz, 12.5 kHz Channel Spacing, Max Power



823.9875 MHz, 25.0 kHz Channel Spacing, Max Power



6.3.3. Test Limit

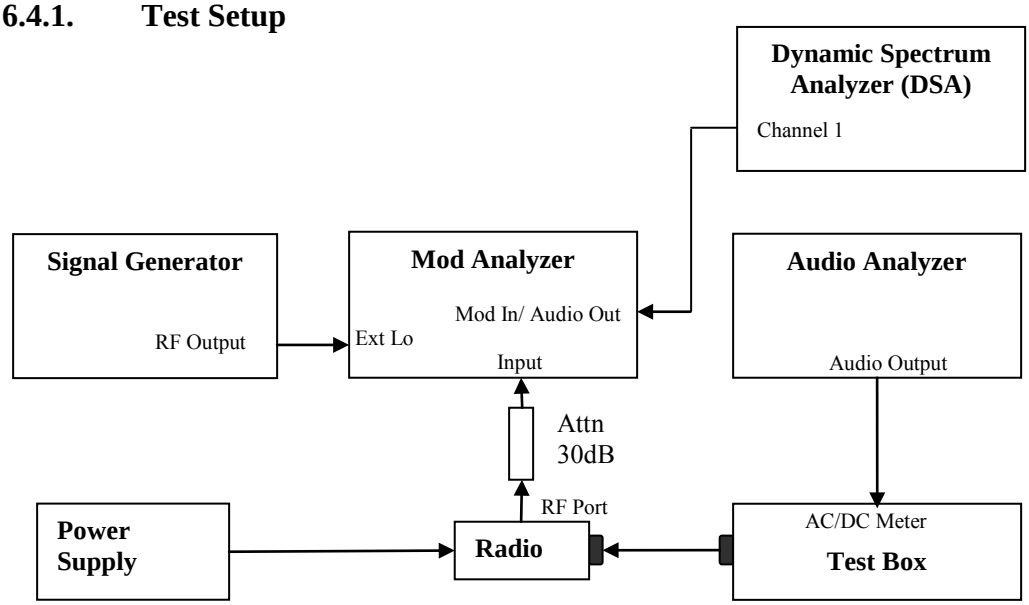


Note:

- *There are additional 6 dB per octave attenuation is allowed from 2.5KHz to 3KHz in equipment 25MHz to 869MHz radio.*
- *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

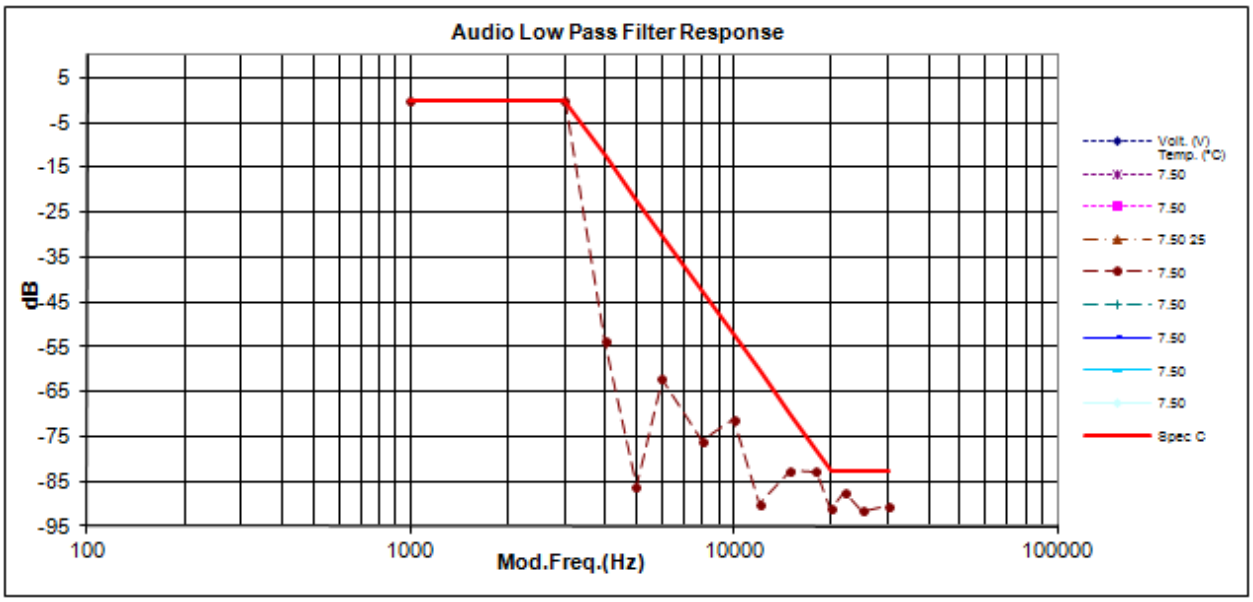
6.4.1. Test Setup



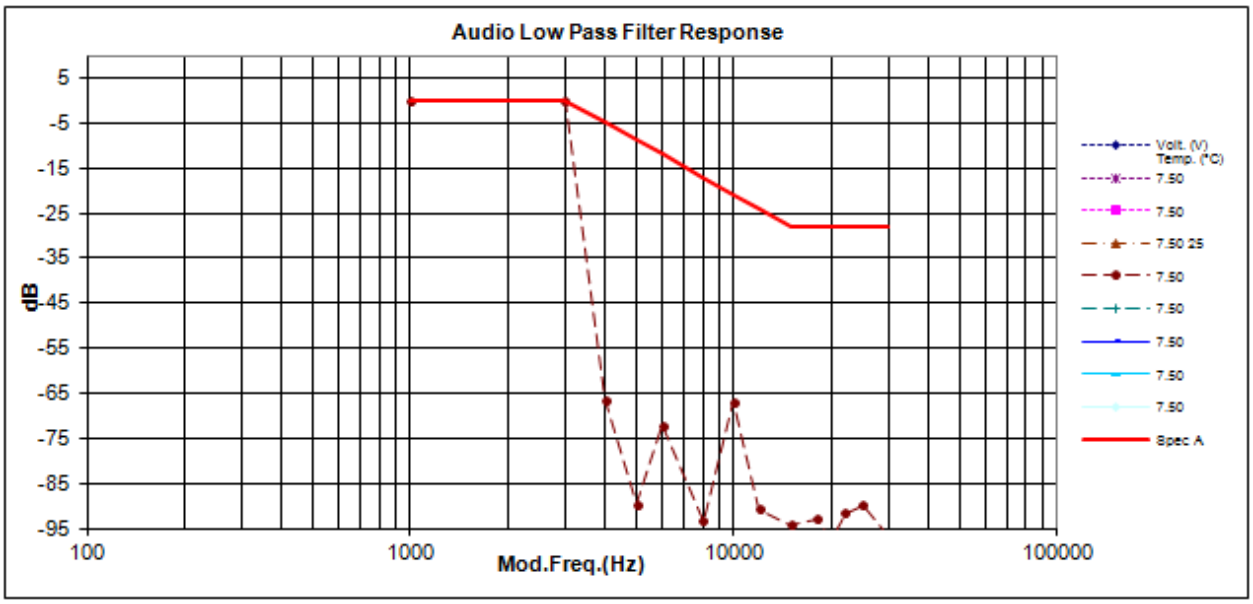
1) The DUT transmitter output port was connected to Modulation Analyzer.
2) Path loss for the measurement included.
3) Press 23.1SPCL on modulation analyzer to enable the external LO from Sigen.
4) Set the Sigen frequency to Fc + 1.5 MHz, RF output level to 0dBm without modulation.
5) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the maximum 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

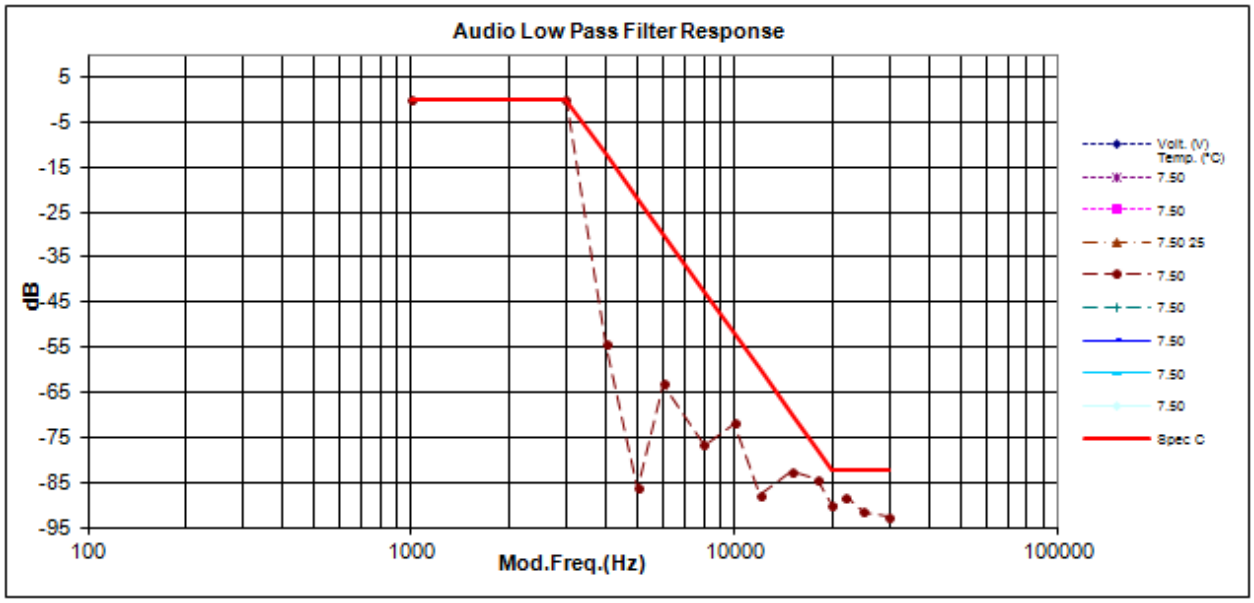
769.0875 MHz, 12.5 kHz Channel Spacing, Max Power



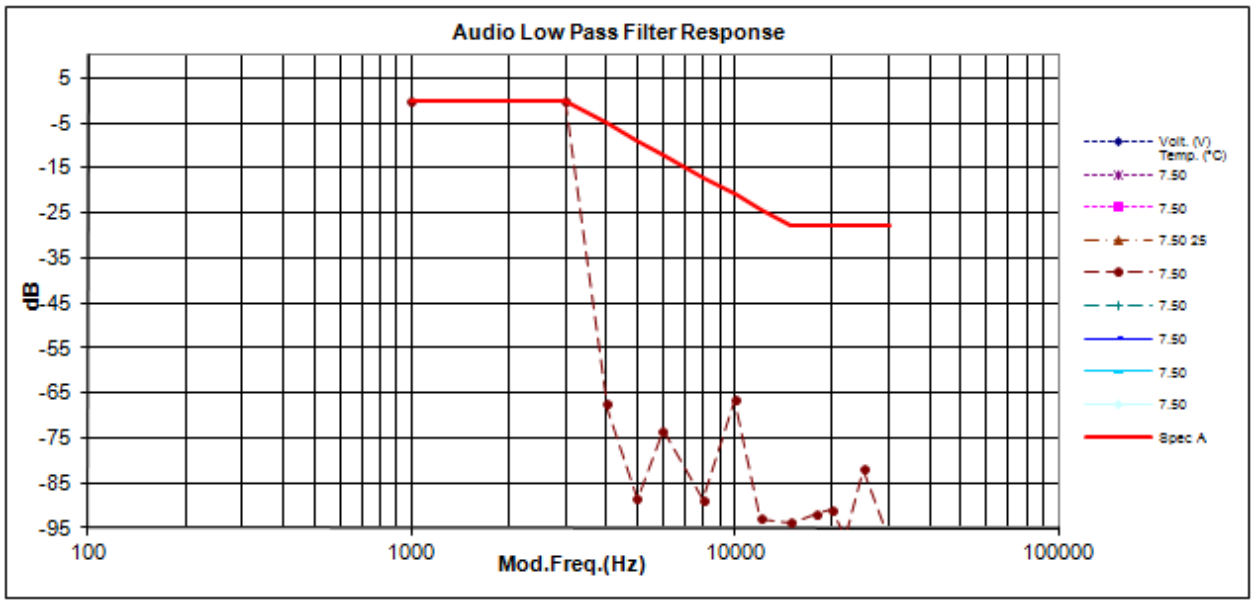
769.0875 MHz, 25.0 kHz Channel Spacing, Max Power



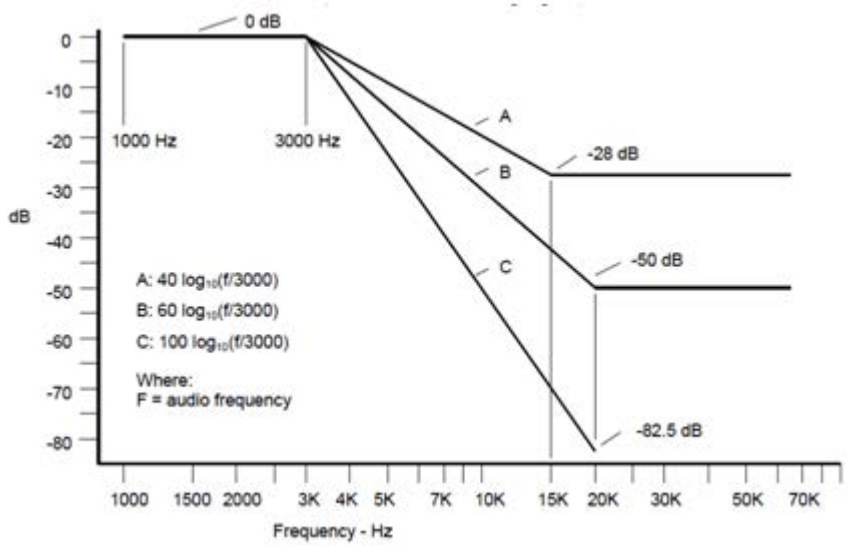
823.9875 MHz, 12.5 kHz Channel Spacing, Max Power



823.9875 MHz, 25.0 kHz Channel Spacing, Max Power



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.

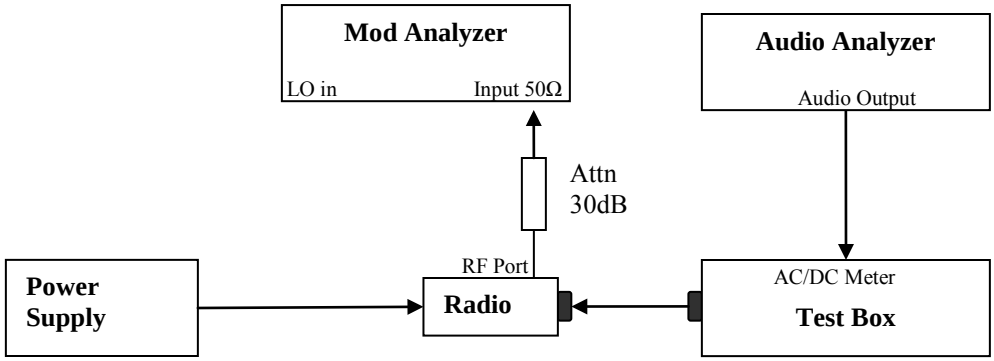
c) For equipment operating on channels between 896 MHz through 901 MHz, between 935 MHz through 940 MHz, and 12.5 or 15 kHz spaced channels in the frequency range 138-174 MHz and 406-512 MHz.

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.

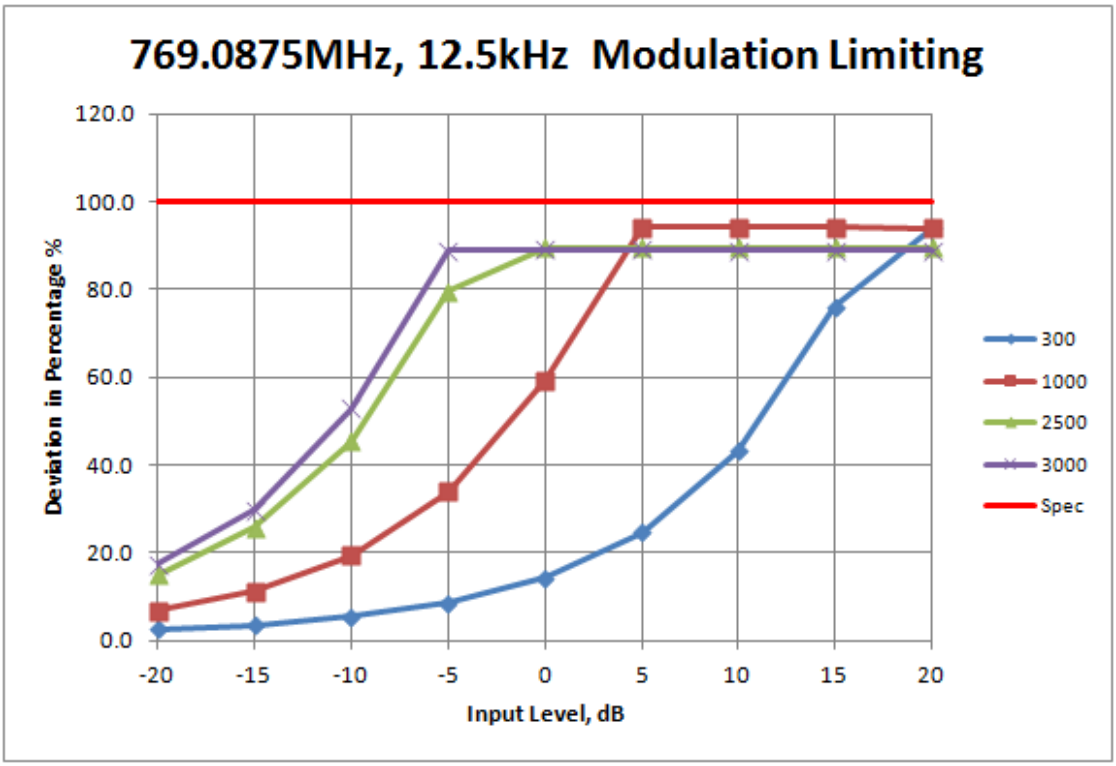
6.5. Modulation Limiting

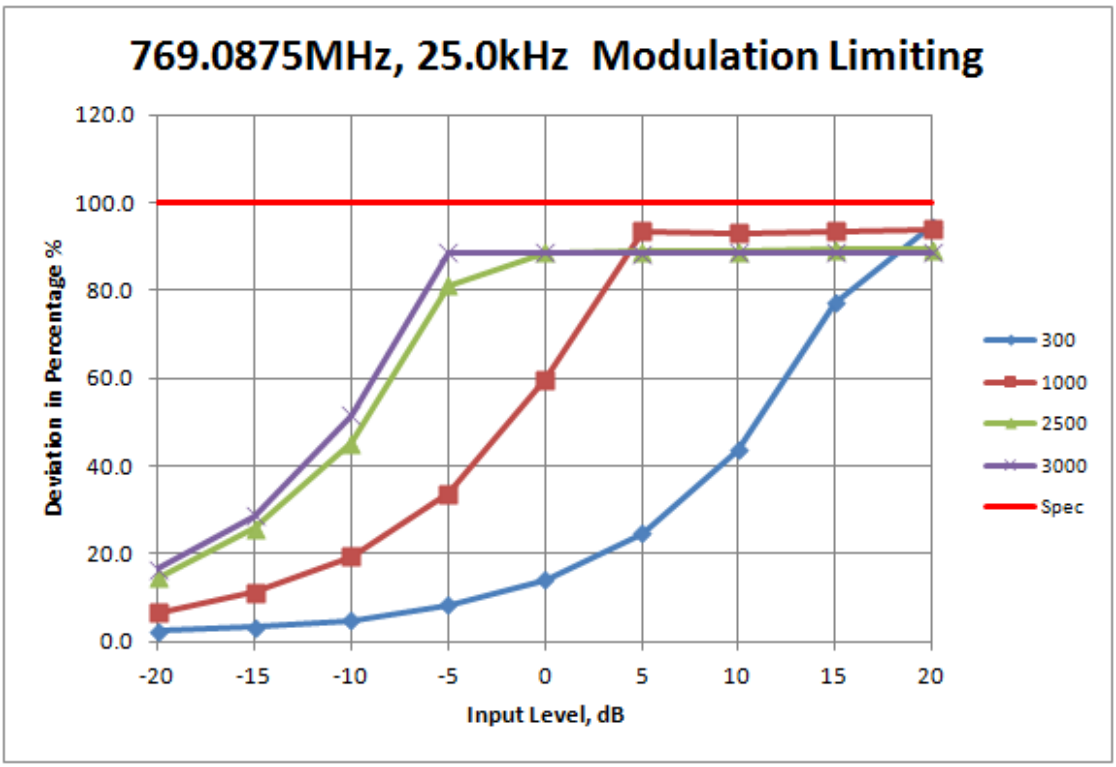
6.5.1. Test Setup

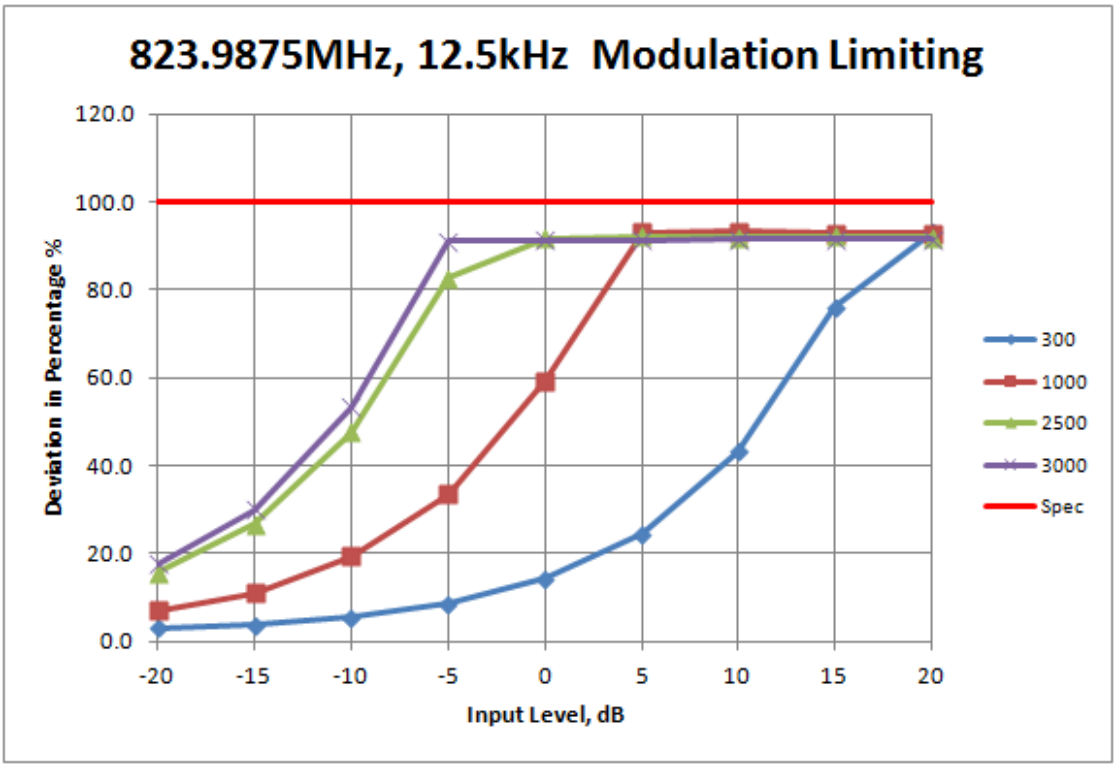


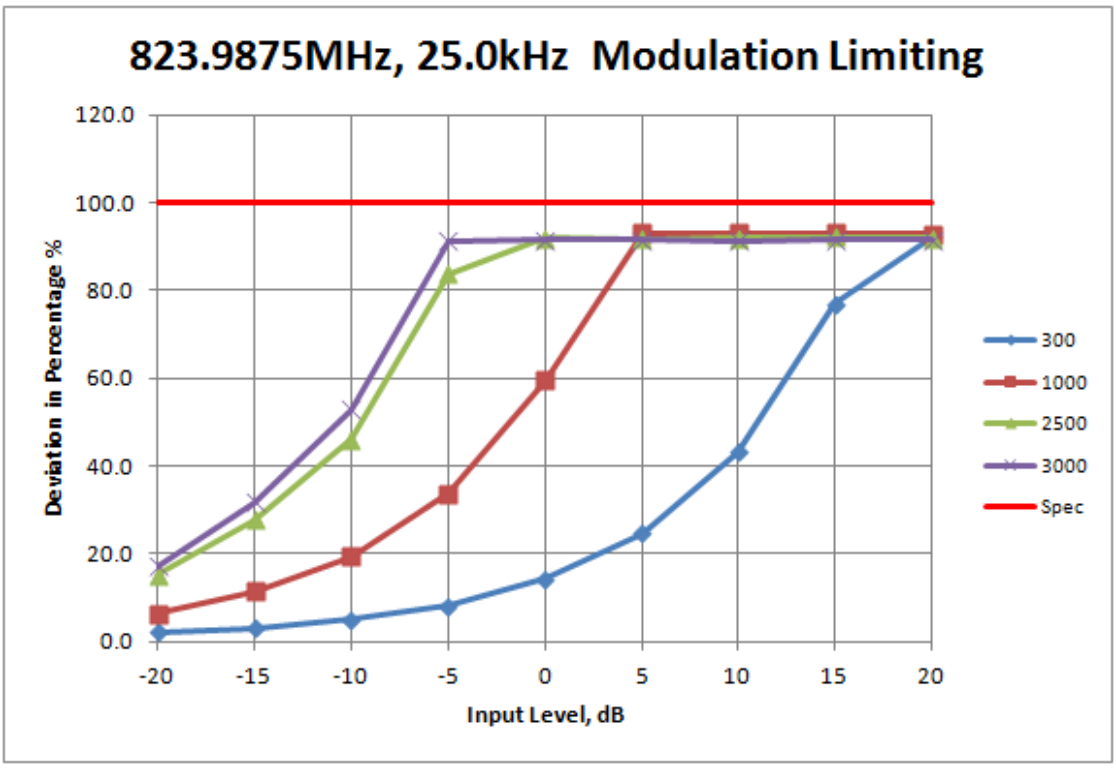
1) The DUT transmitter output port was connected to Modulation Analyzer.
2) Path loss for the measurement included.
3) Set the audio bandwidth filter to 15 kHz.
4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the maximum deviation.
5) Record the frequency deviation as 0dB input level at 1kHz audio frequency.
6) Repeat the step and record the frequency deviation from -13 dB to 20dB by 5 dB increments and different audio freq 300 Hz, 2.5 kHz and 3 kHz.

6.5.2. Test Result









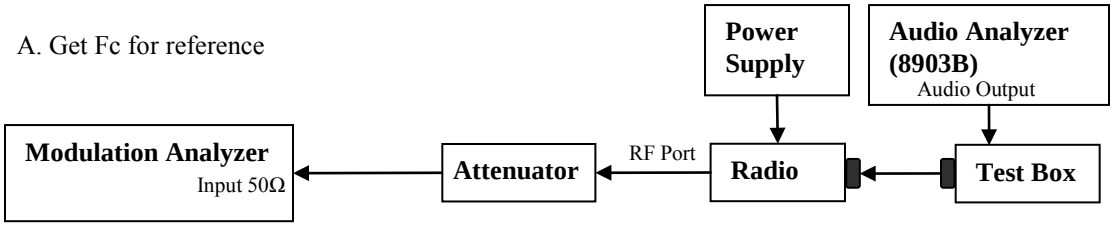
6.5.3. Test Limit

Modulation shall not exceed 100 percent if amplitude modulation is employed.

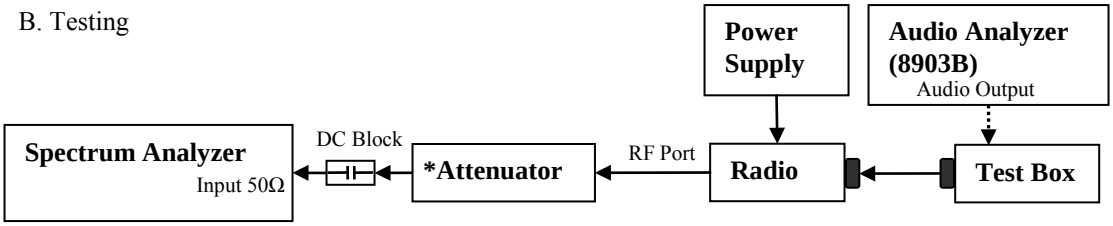
6.6. Occupied Bandwidth

6.6.1. Test Setup (Analog)

A. Get Fc for reference



B. Testing

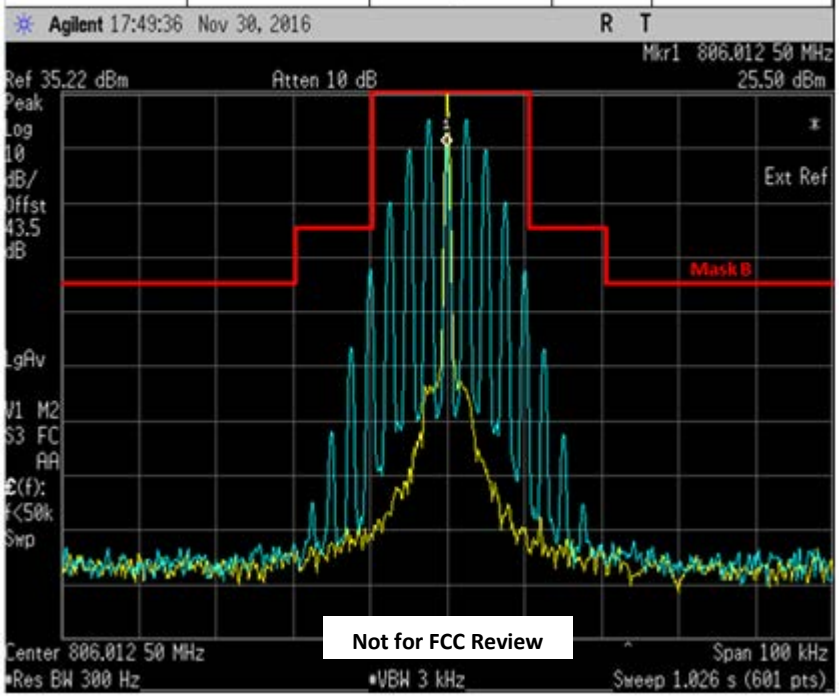


1) The DUT transmitter output port was connected to Modulation Analyzer.
2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey the DUT.
4) Path loss for the measurement included.
5) Select the Occupied Bandwidth measurement for 99% 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 to 100 KHz 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.

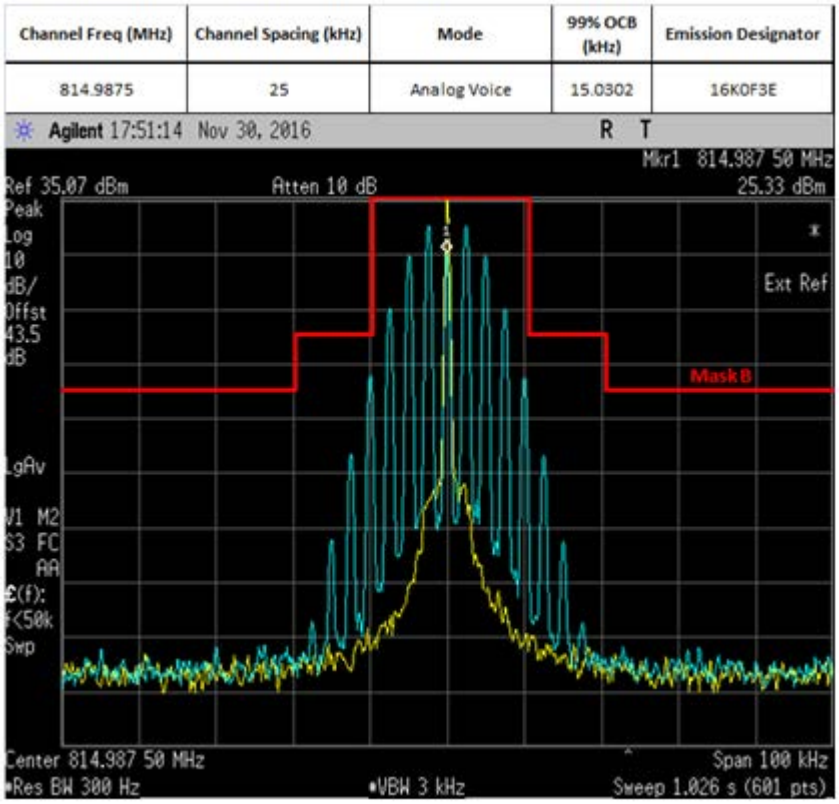
* Only HPF added for Mask 80.211 measurement with attenuator.

6.6.2. Test Result (Analog)

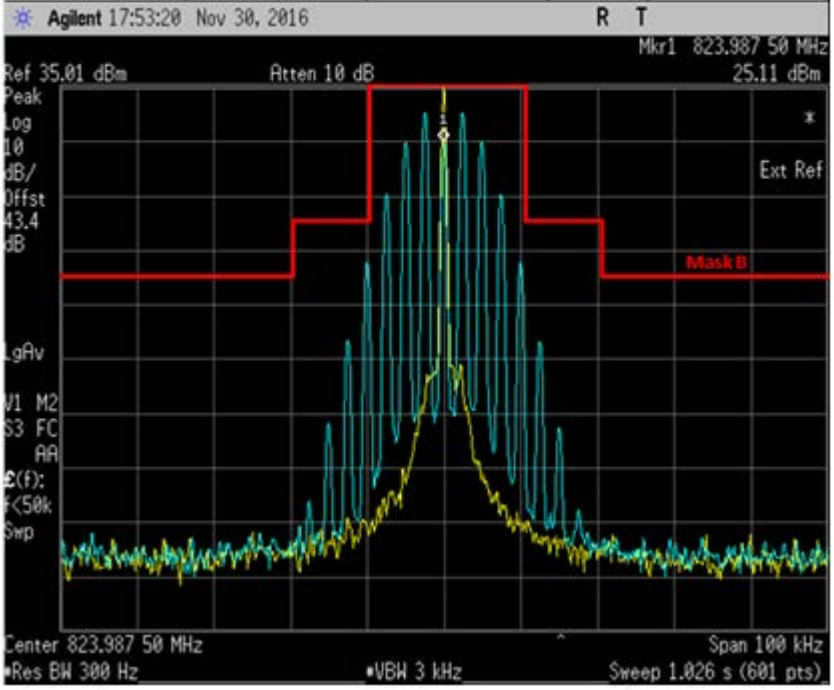
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
806.0125	25	Analog Voice	15.0328	16K0F3E



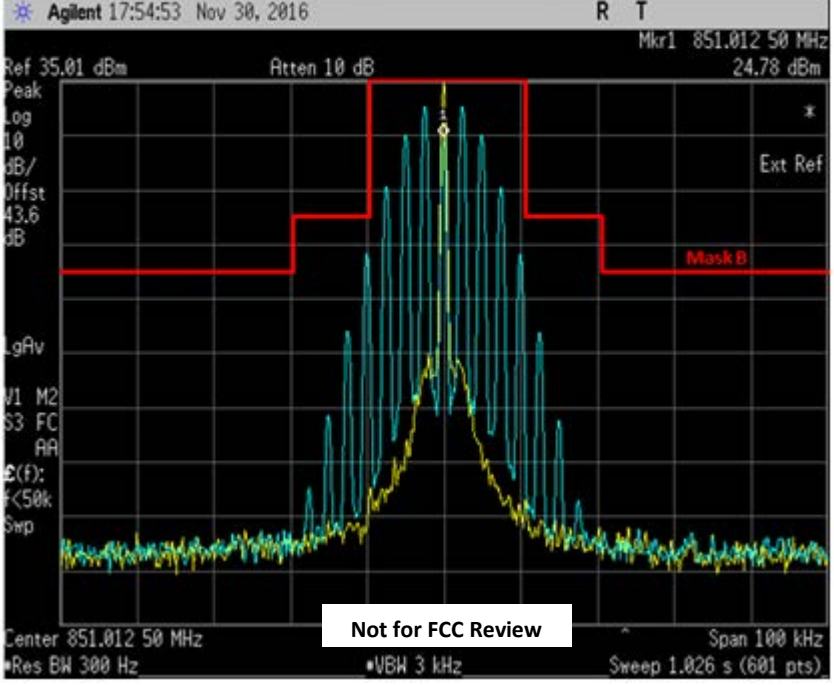
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	25	Analog Voice	15.0302	16K0F3E



Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
823.9875	25	Analog Voice	15.0428	16K0F3E



Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
851.0125	25	Analog Voice	15.0573	16K0F3E



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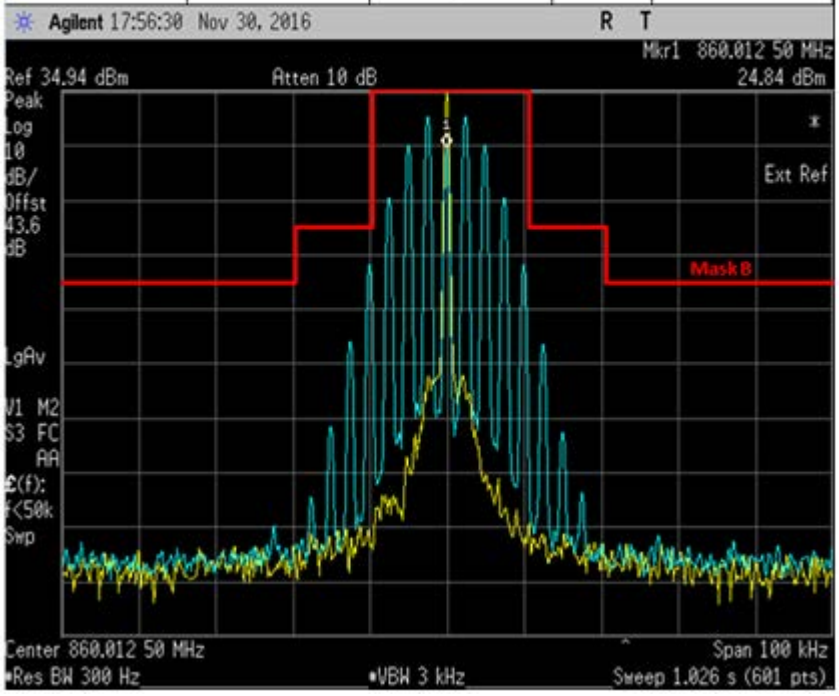
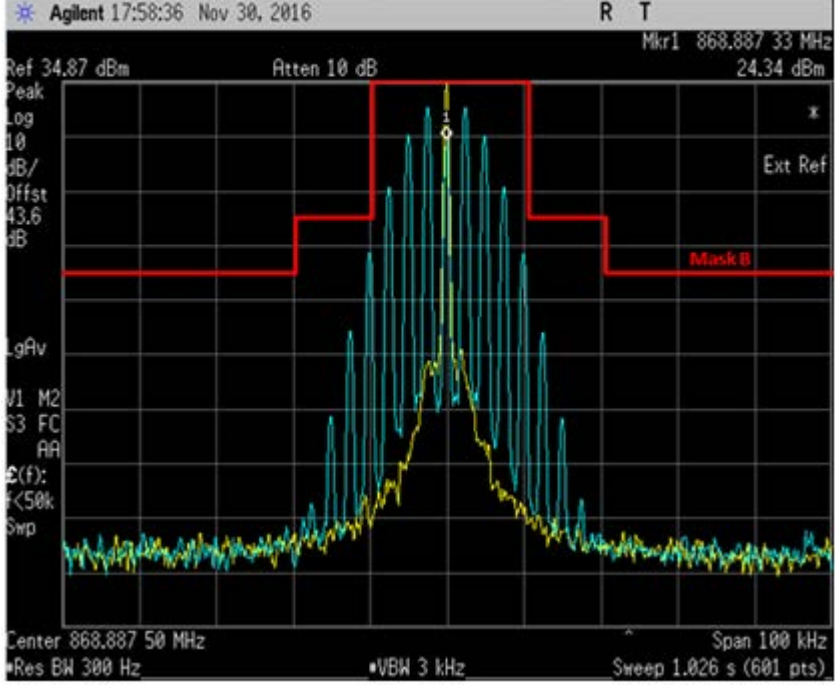
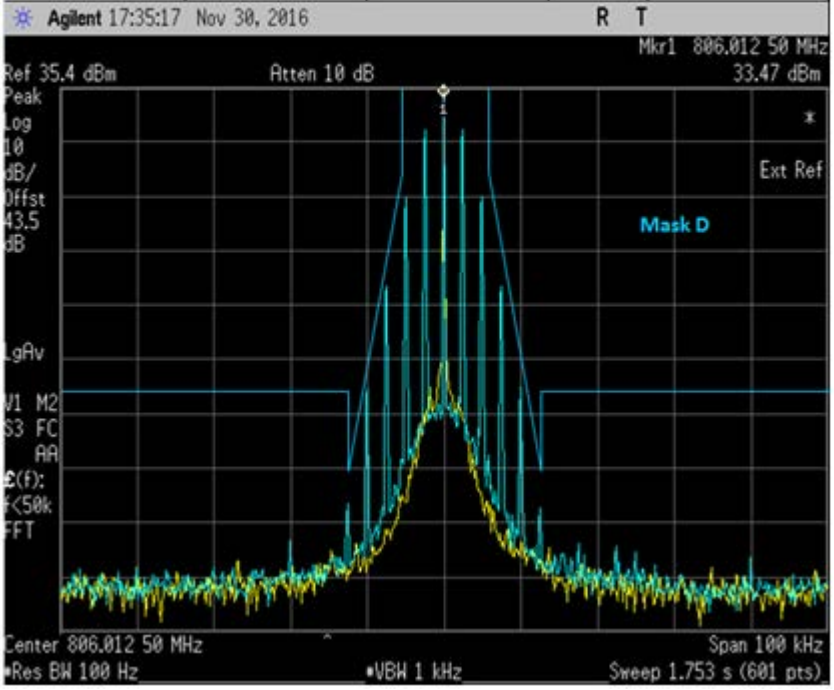
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	25	Analog Voice	15.0559	16K0F3E



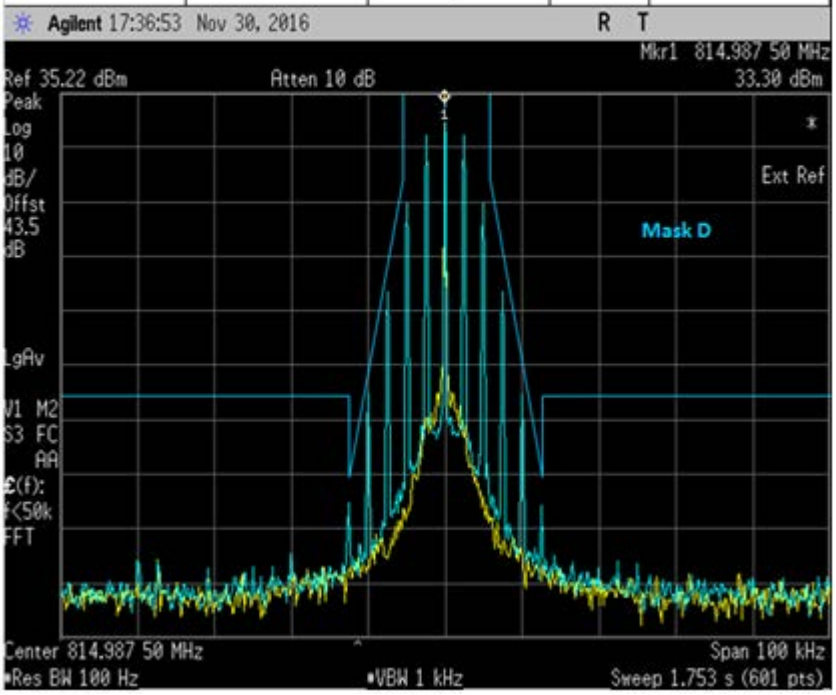
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
868.8875	25	Analog Voice	15.073	16K0F3E



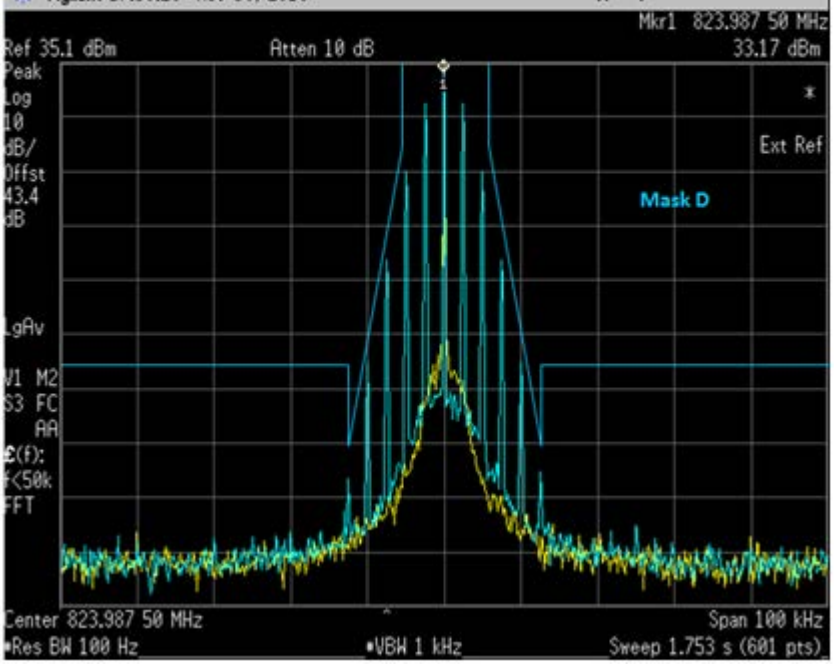
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
806.0125	12.5	Analog Voice	9.9837	11K0F3E



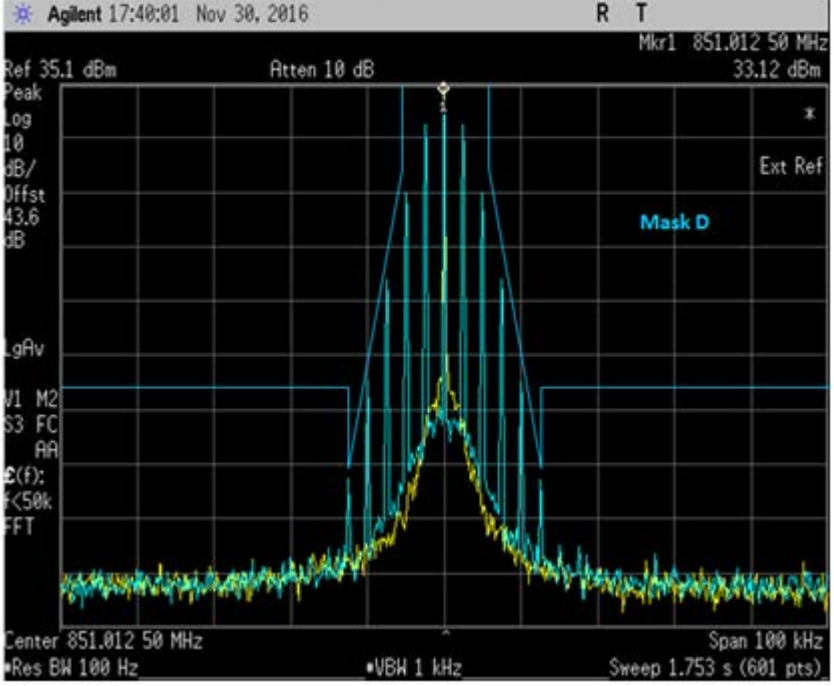
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	12.5	Analog Voice	9.9818	11K0F3E



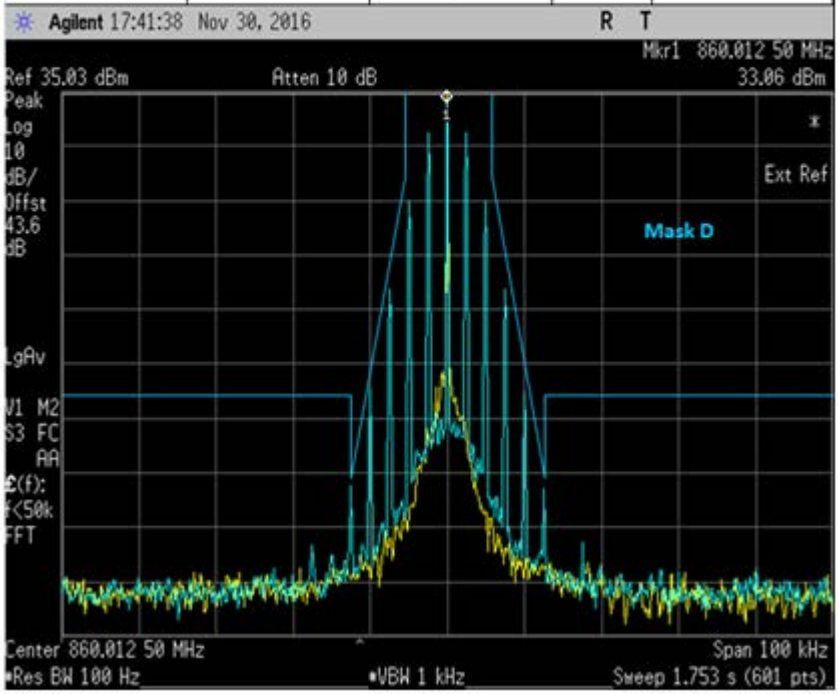
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
823.9875	12.5	Analog Voice	9.989	11K0F3E



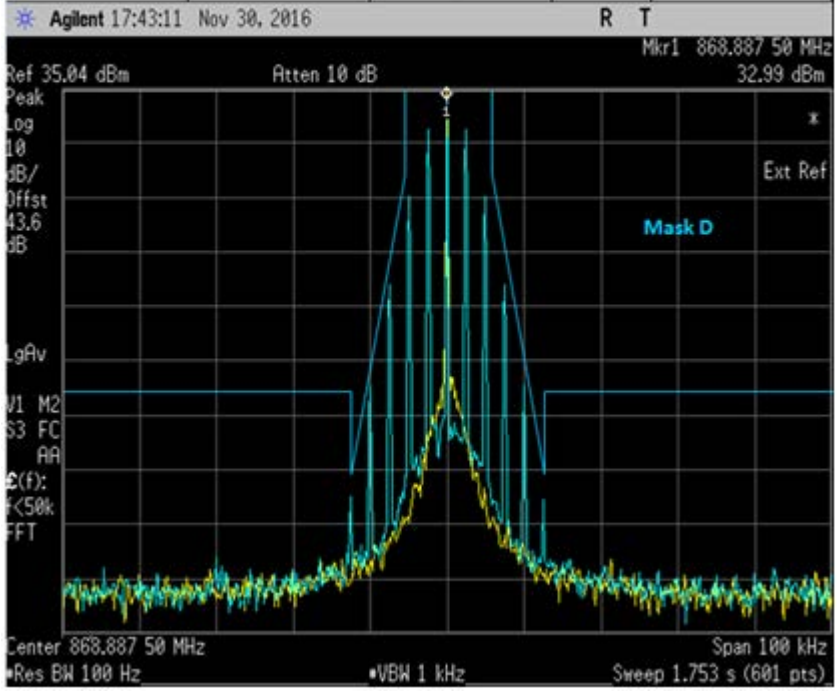
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
851.0125	12.5	Analog Voice	10.0025	11K0F3E



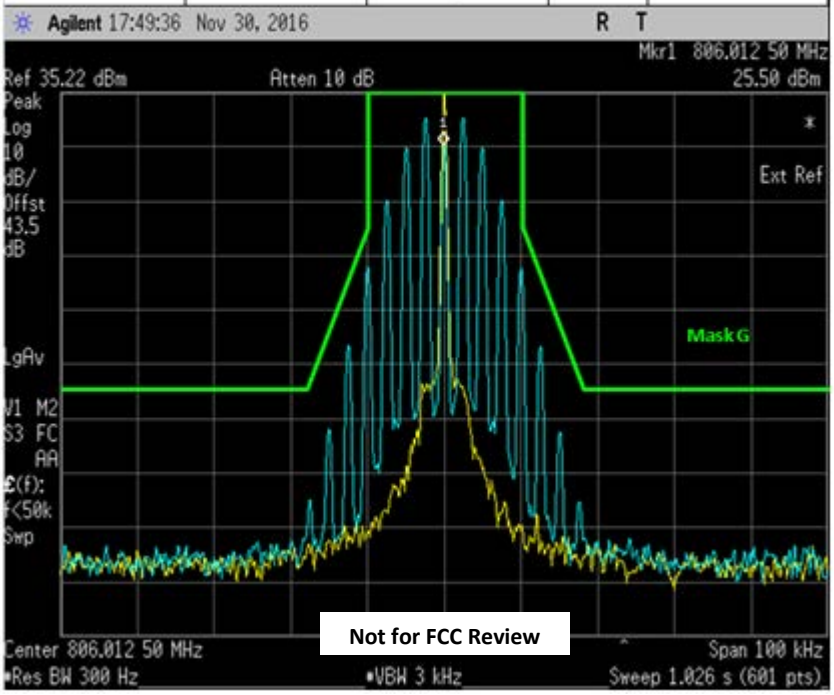
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	12.5	Analog Voice	9.9955	11K0F3E



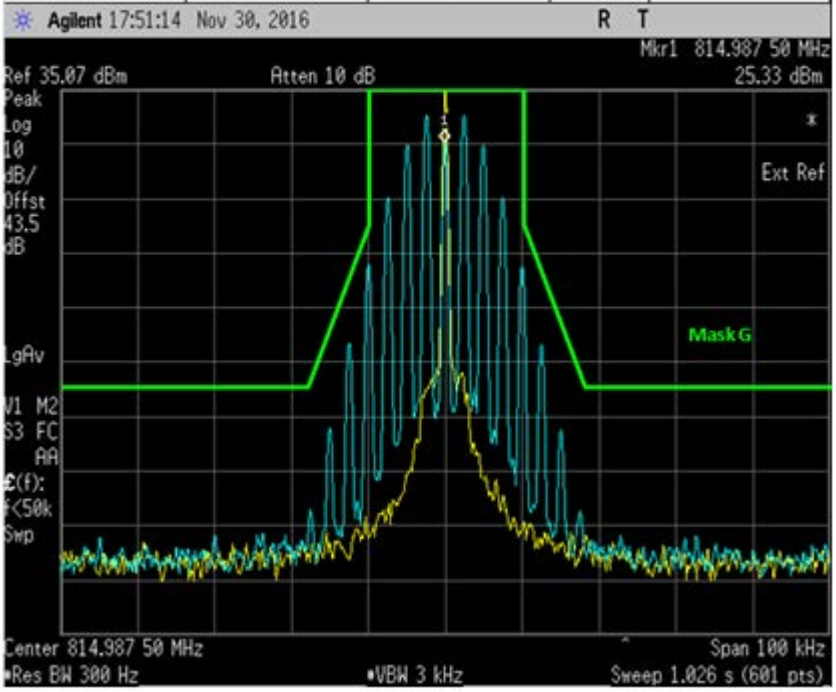
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
868.8875	12.5	Analog Voice	10.0117	11K0F3E



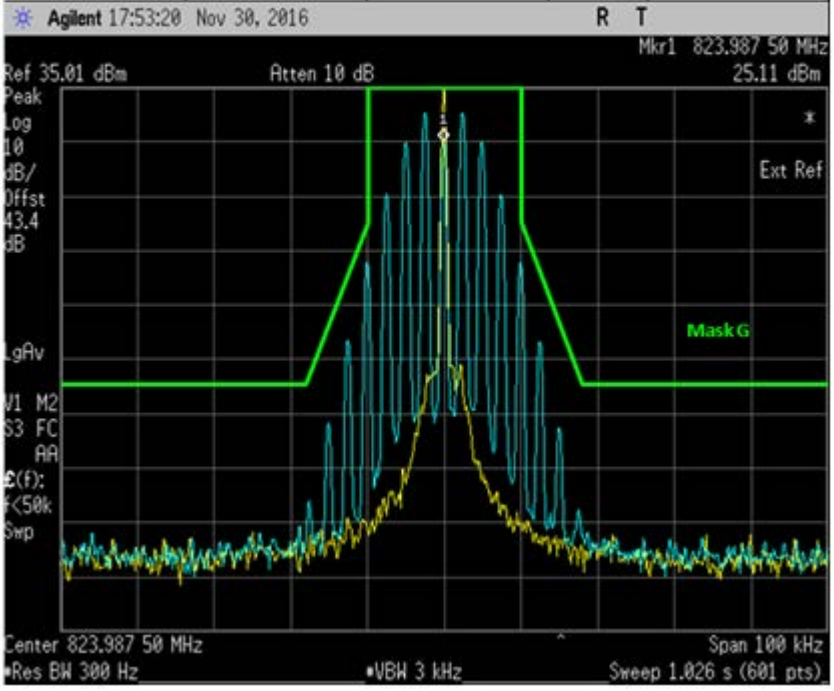
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
806.0125	25	Analog Voice	15.0328	16K0F3E



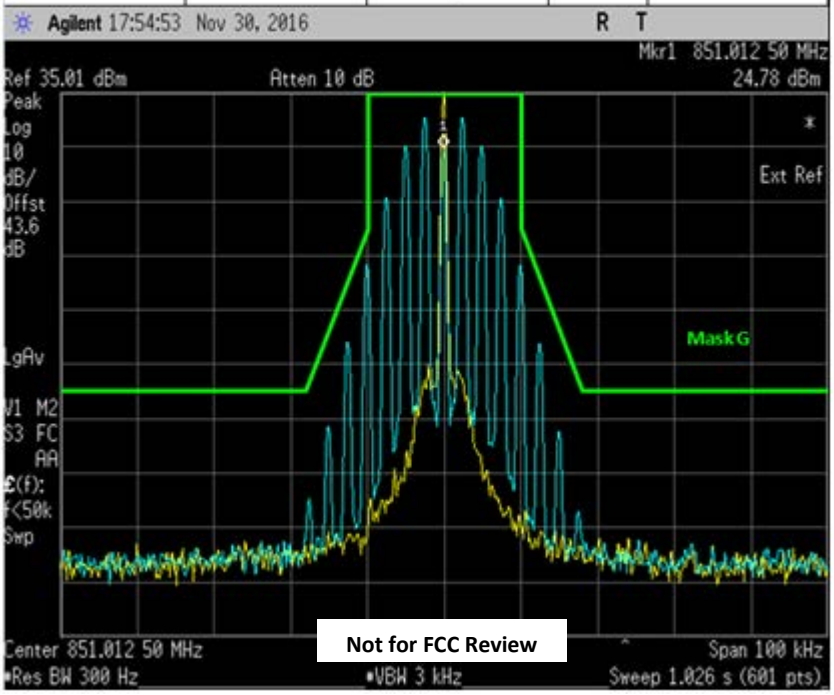
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	25	Analog Voice	15.0302	16K0F3E



Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
823.9875	25	Analog Voice	15.0428	16K0F3E

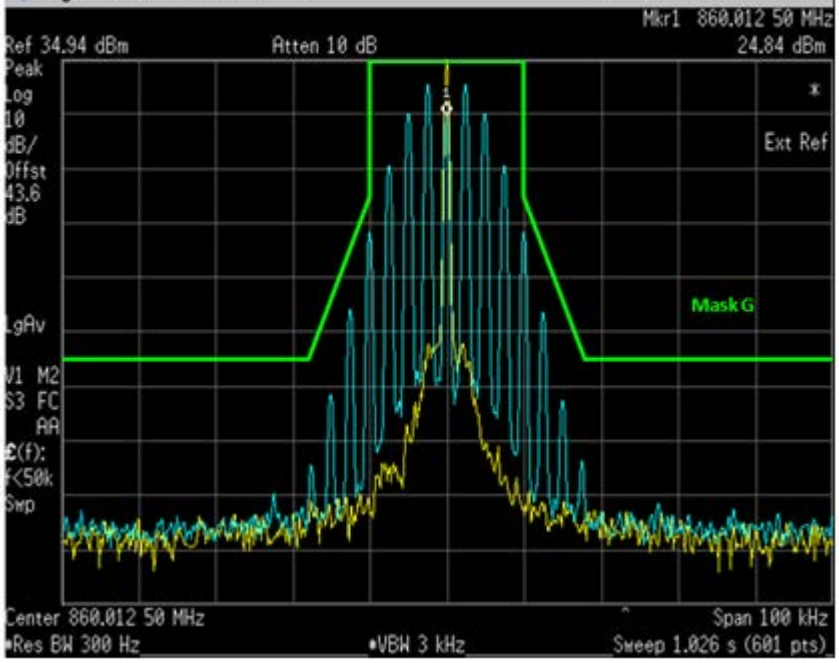


Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
851.0125	25	Analog Voice	15.0573	16K0F3E

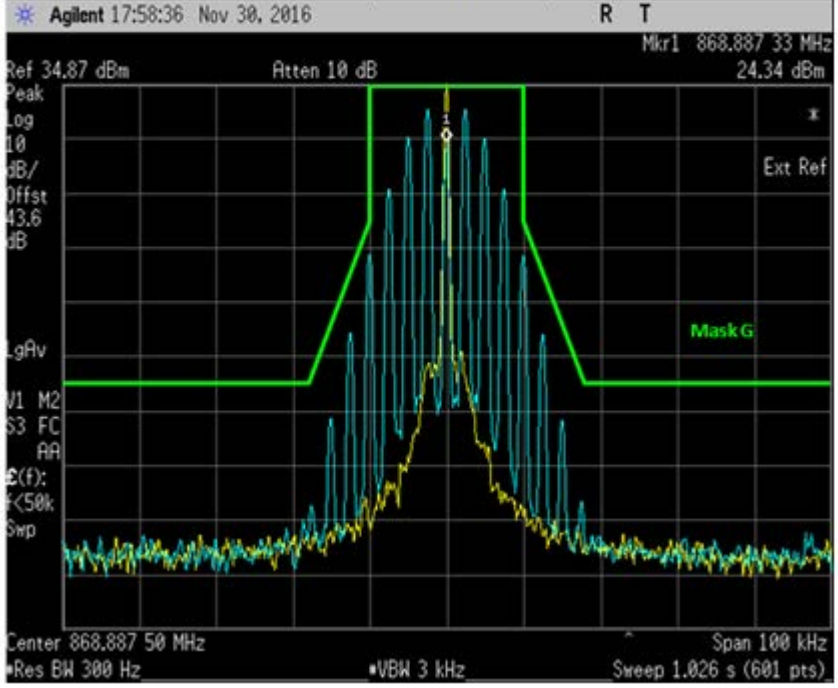


Not for FCC Review

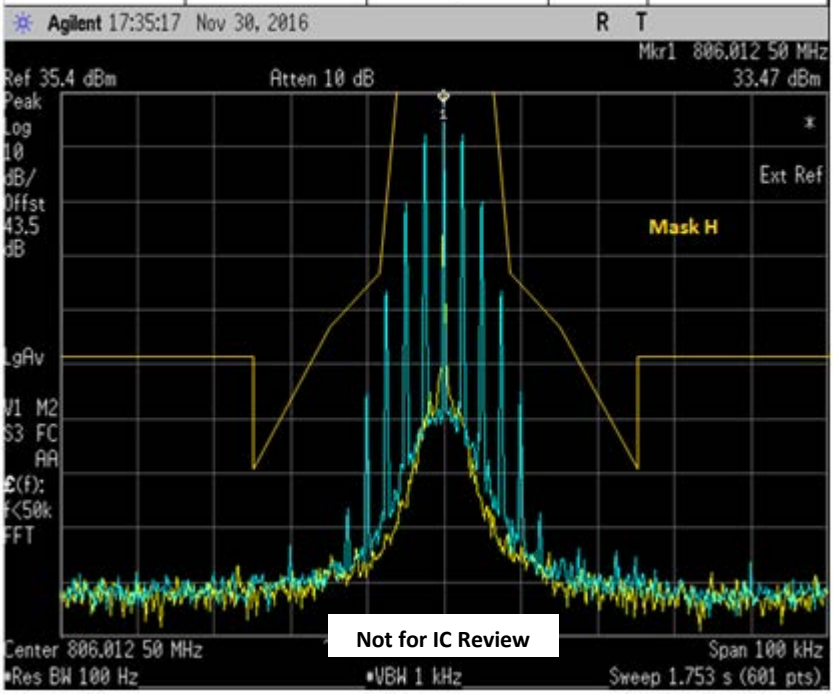
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	25	Analog Voice	15.0559	16K0F3E



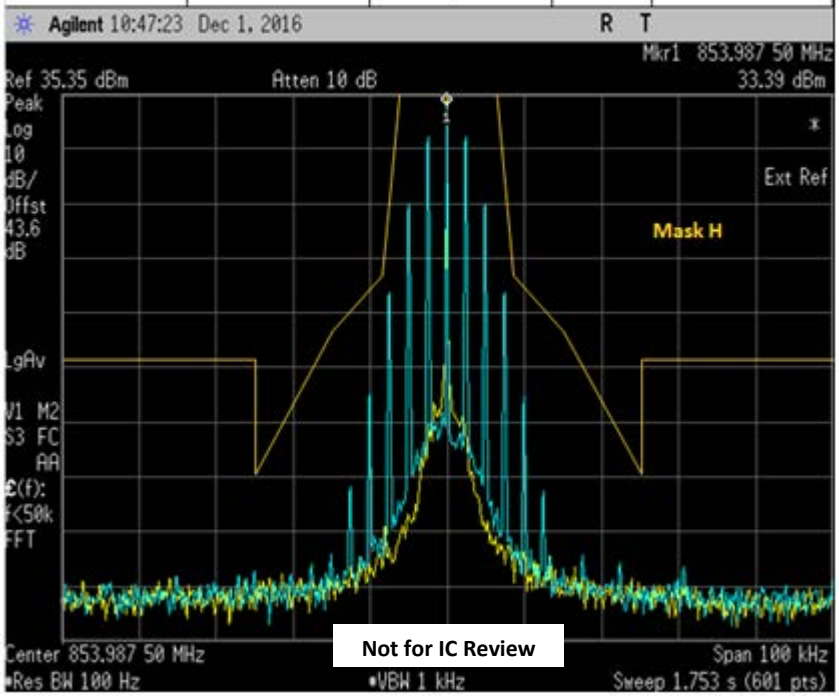
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
868.8875	25	Analog Voice	15.073	16K0F3E



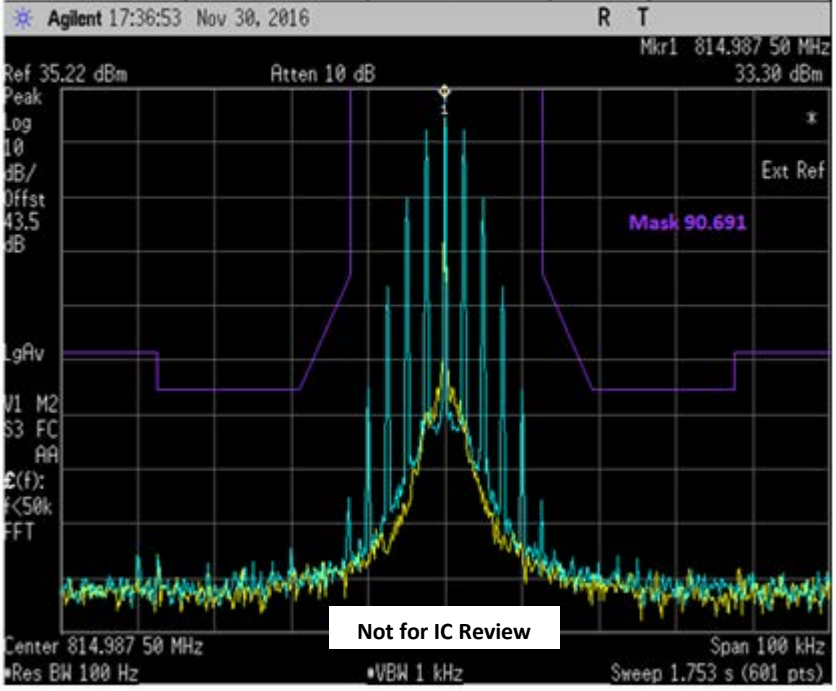
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
806.0125	12.5	Analog Voice	9.9837	11K0F3E



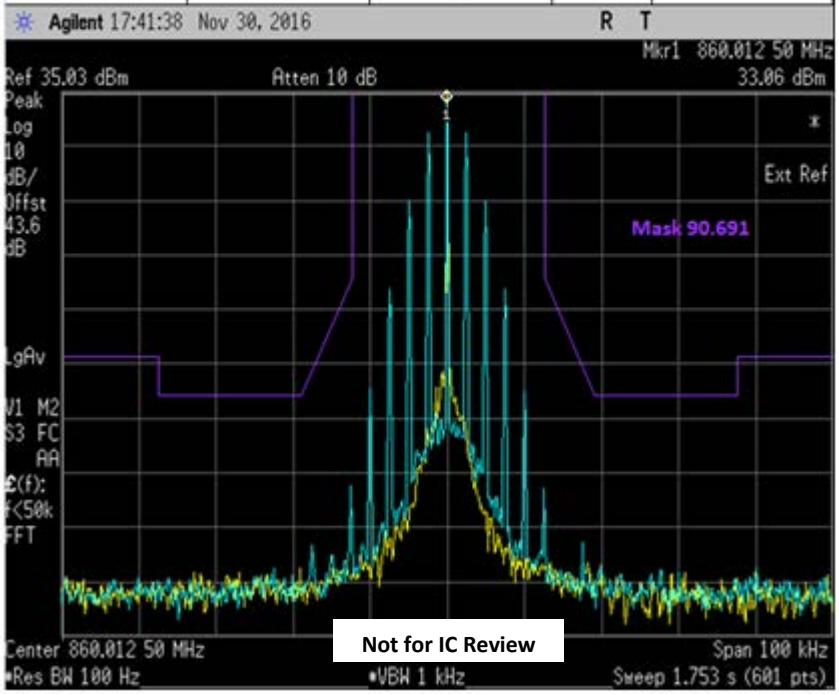
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
853.9875	12.5	Analog Voice	9.9931	11K0F3E



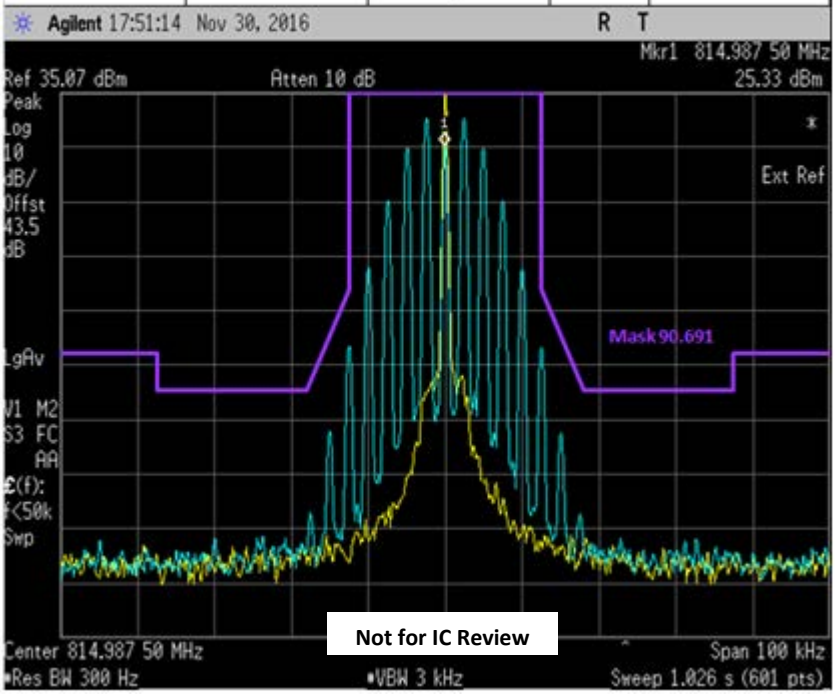
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	12.5	Analog Voice	9.9818	11K0F3E



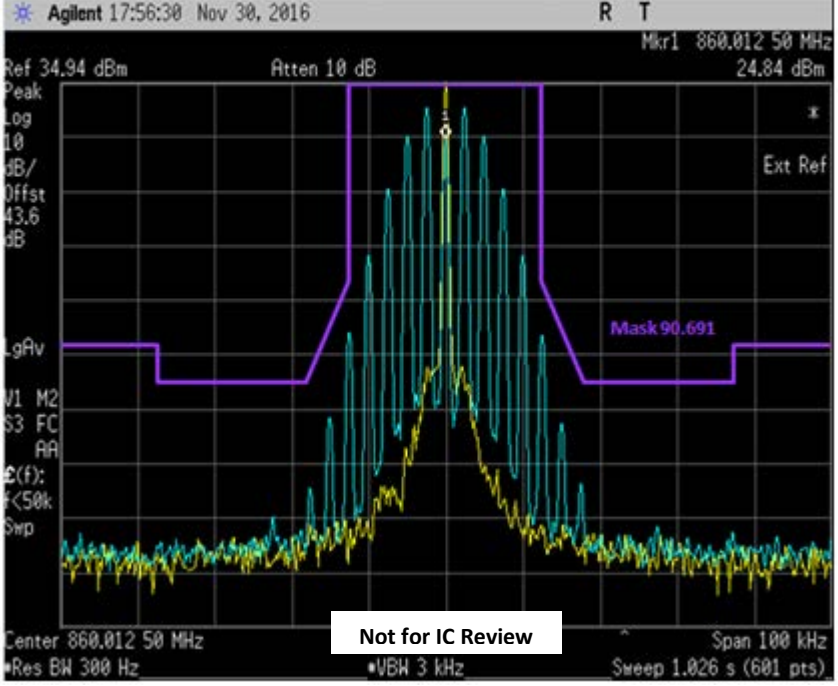
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	12.5	Analog Voice	9.9955	11K0F3E



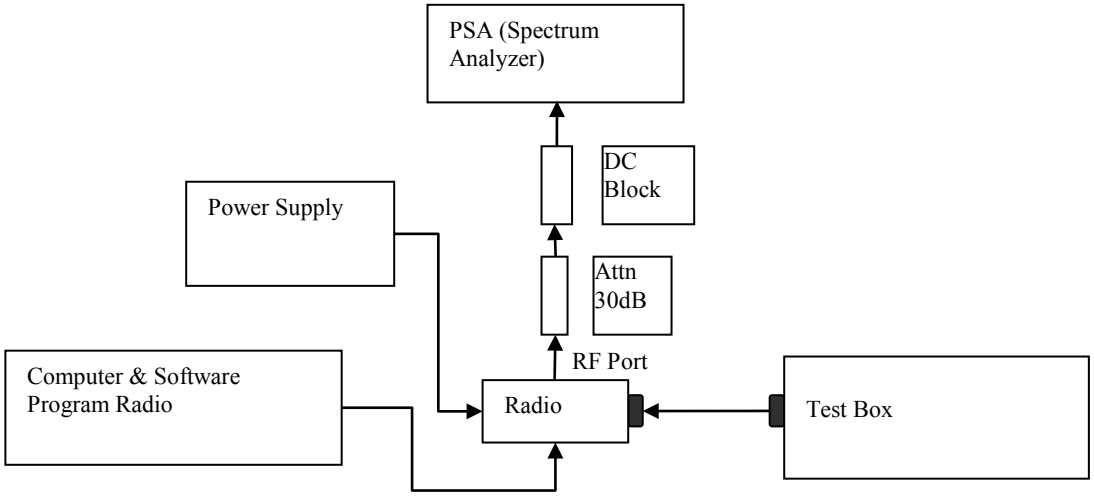
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	25	Analog Voice	15.0302	16K0F3E



Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	25	Analog Voice	15.0559	16K0F3E



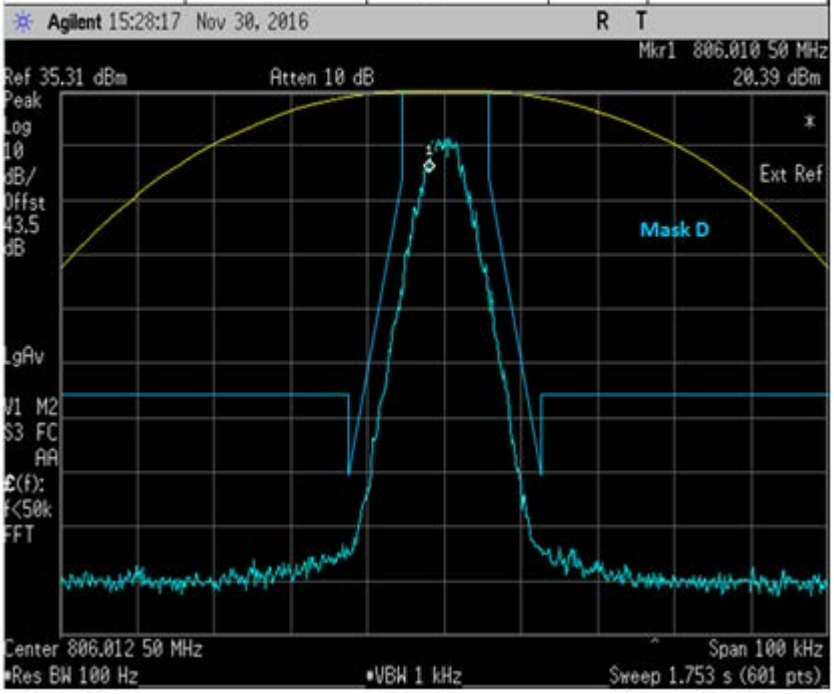
6.6.3. Test Setup (Digital)



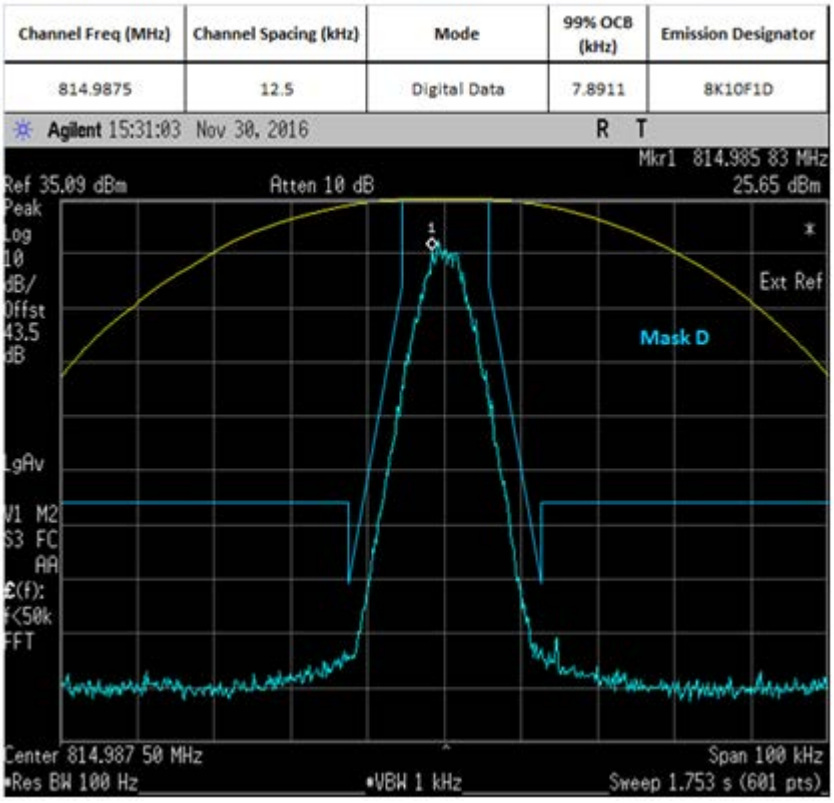
1) Program and set radio to operate in desire test frequency and digital mode with modulation. (4FSK, C4FM, CQPSK or other digital modulation form).
2) Path loss for the measurement included.
3) Select the Occupied Bandwidth measurement for 99% Bandwidth Measurement.
4) Key in the Fc and RBW (1 ~ 5 % 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 to 100 KHz and Resolution Bandwidth (according to FCC/ ISED standard).
8) Capture the screen shot as modulated signal.

6.6.4. Test Result (Digital)

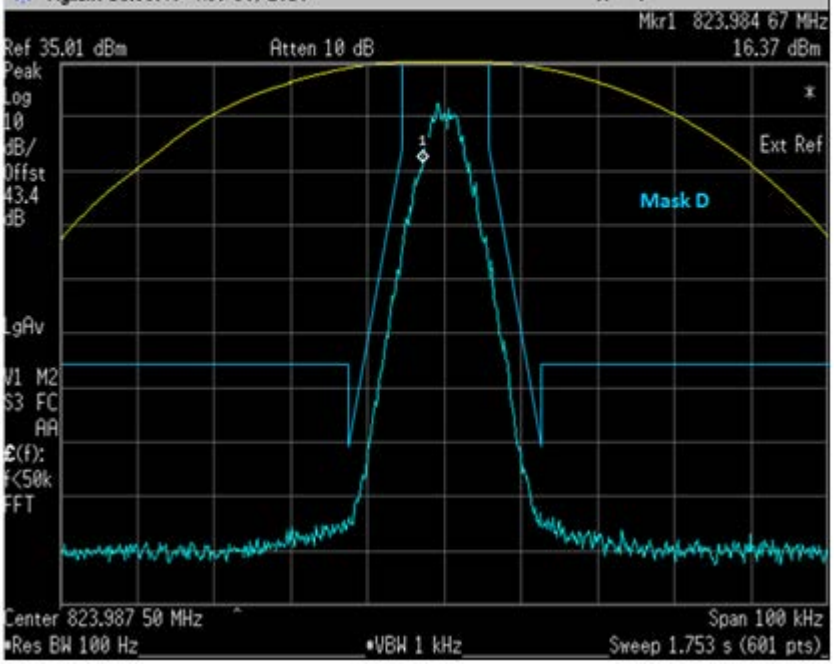
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
806.0125	12.5	Digital Data	7.9099	8K10F1D



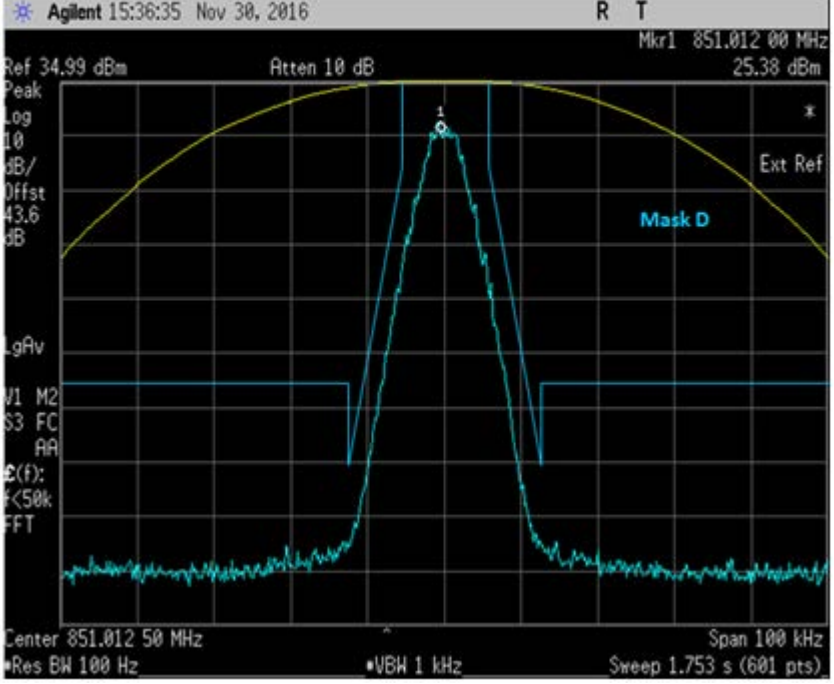
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	12.5	Digital Data	7.8911	8K10F1D



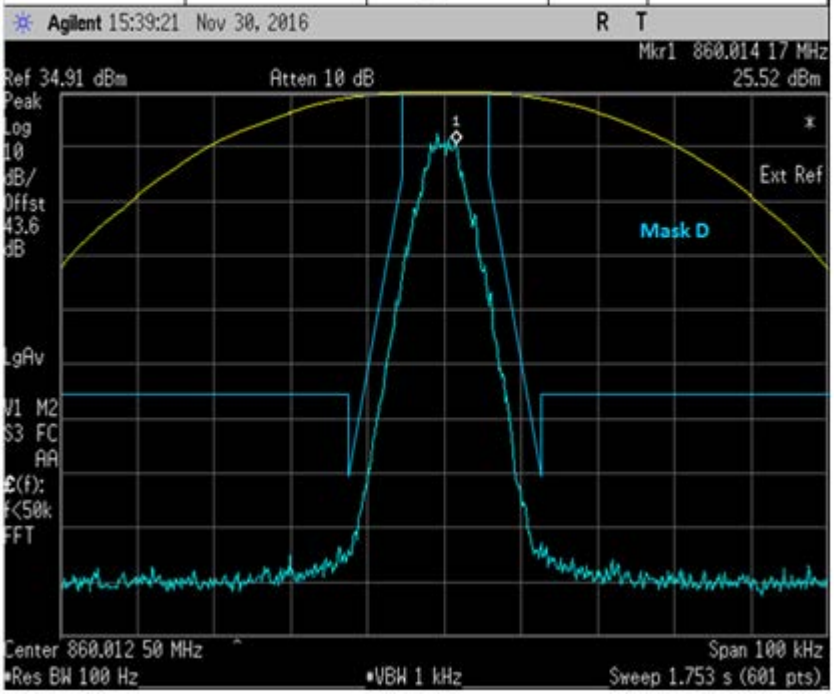
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
823.9875	12.5	Digital Data	7.9104	8K10F1D



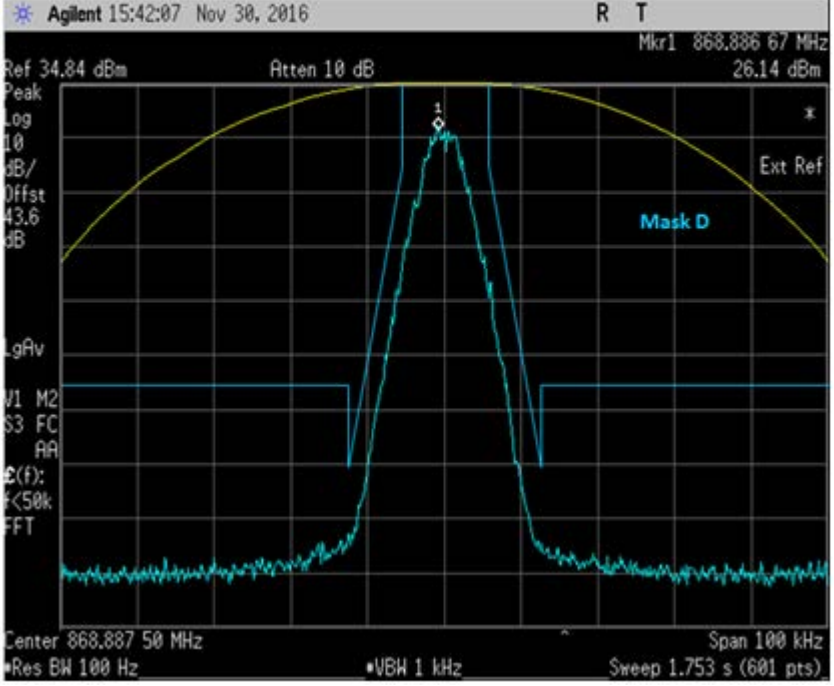
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
851.0125	12.5	Digital Data	8.0501	8K10F1D



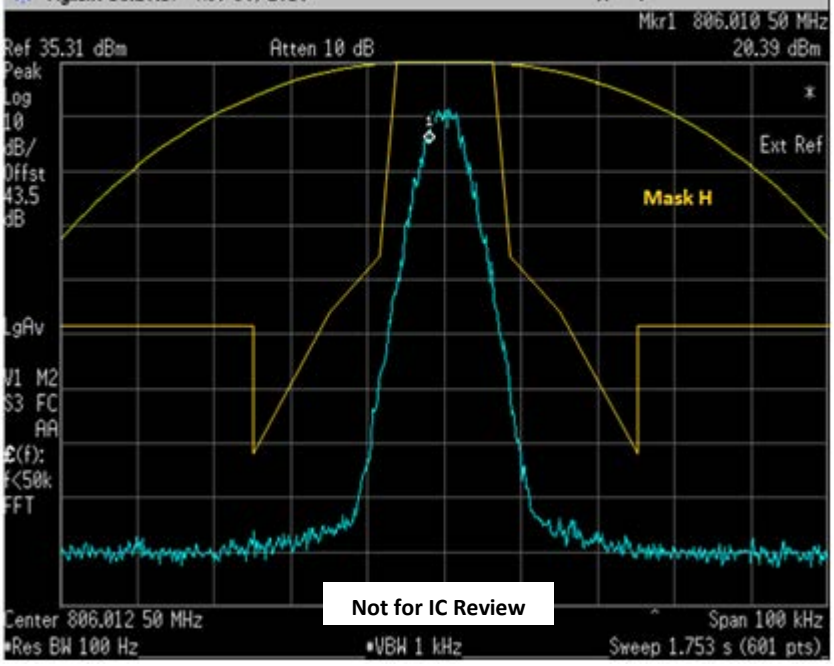
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	12.5	Digital Data	7.8671	8K10F1D



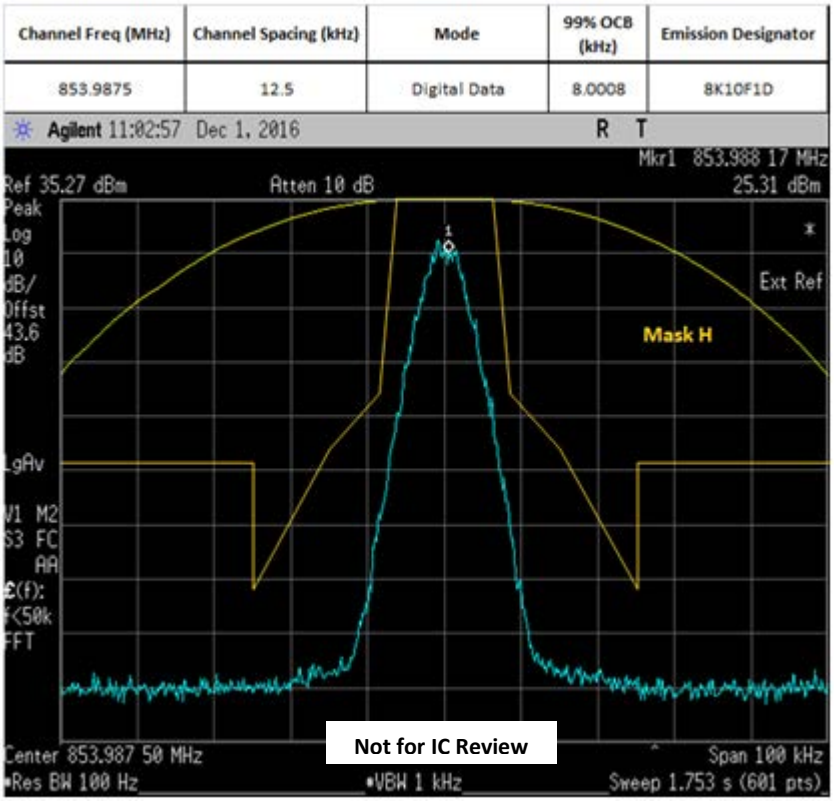
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
868.8875	12.5	Digital Data	7.8913	8K10F1D



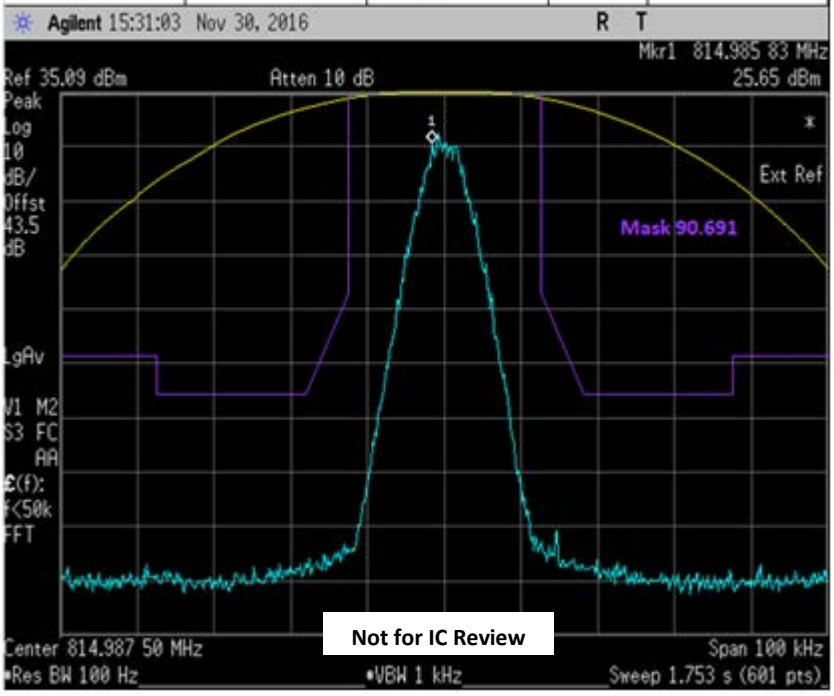
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
806.0125	12.5	Digital Data	7.9099	8K10F1D



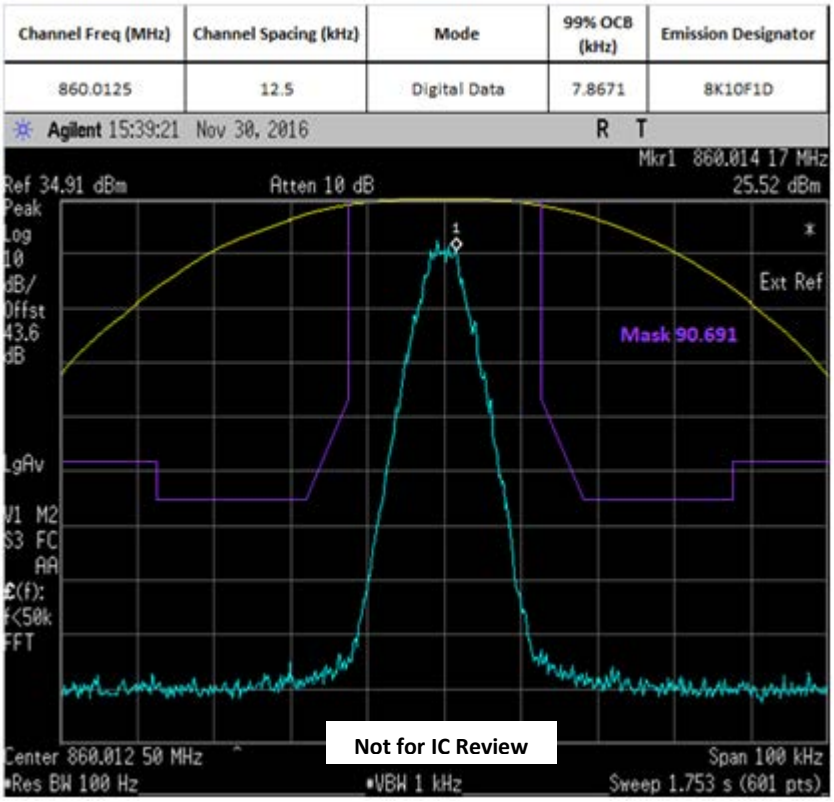
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
853.9875	12.5	Digital Data	8.0008	8K10F1D



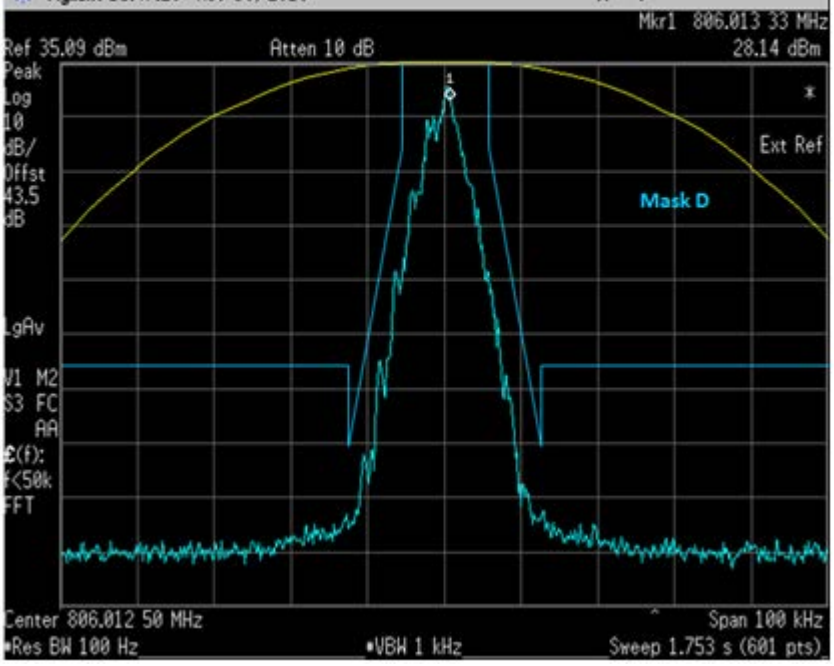
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	12.5	Digital Data	7.8911	8K10F1D



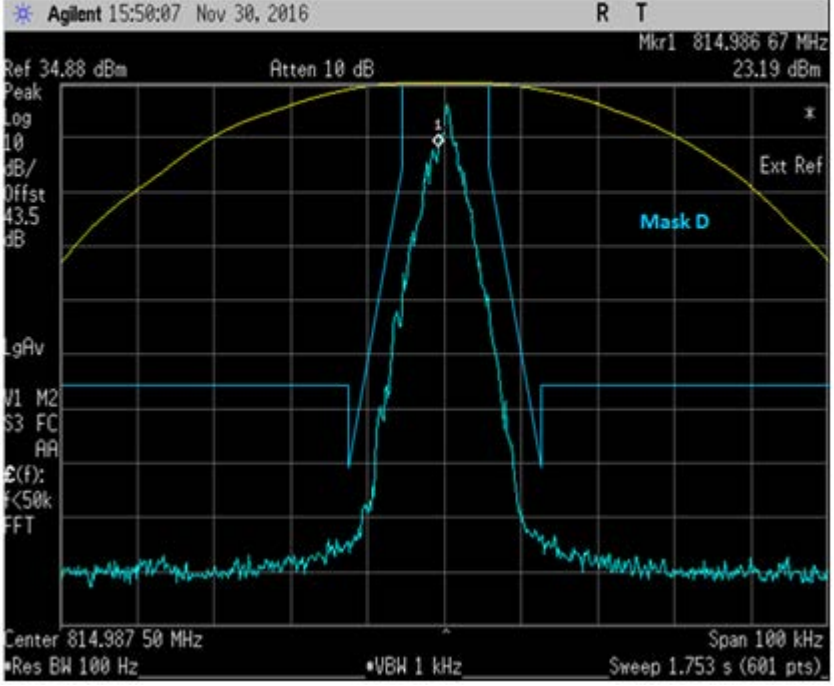
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	12.5	Digital Data	7.8671	8K10F1D



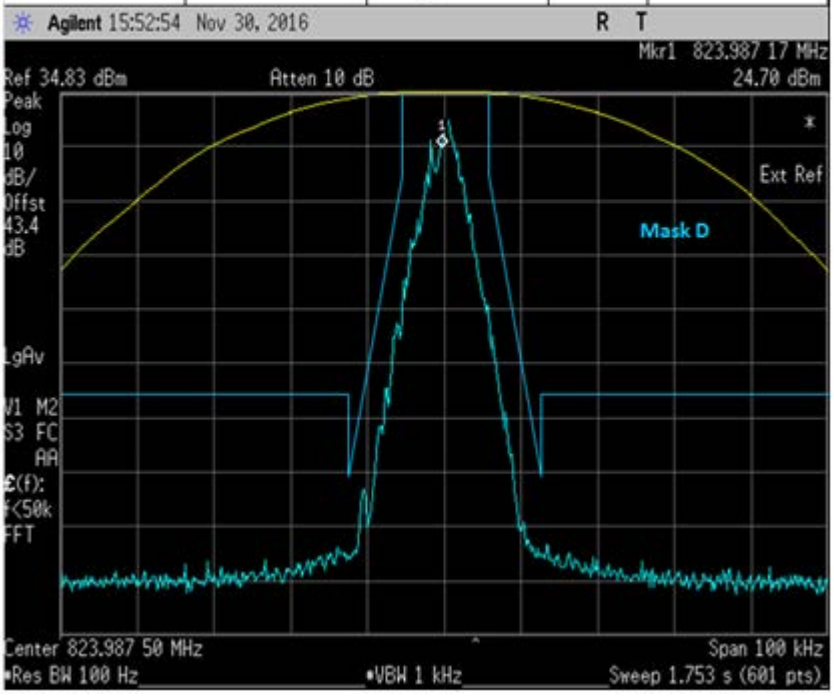
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
806.0125	12.5	Digital Voice	6.8095	8K10F1E



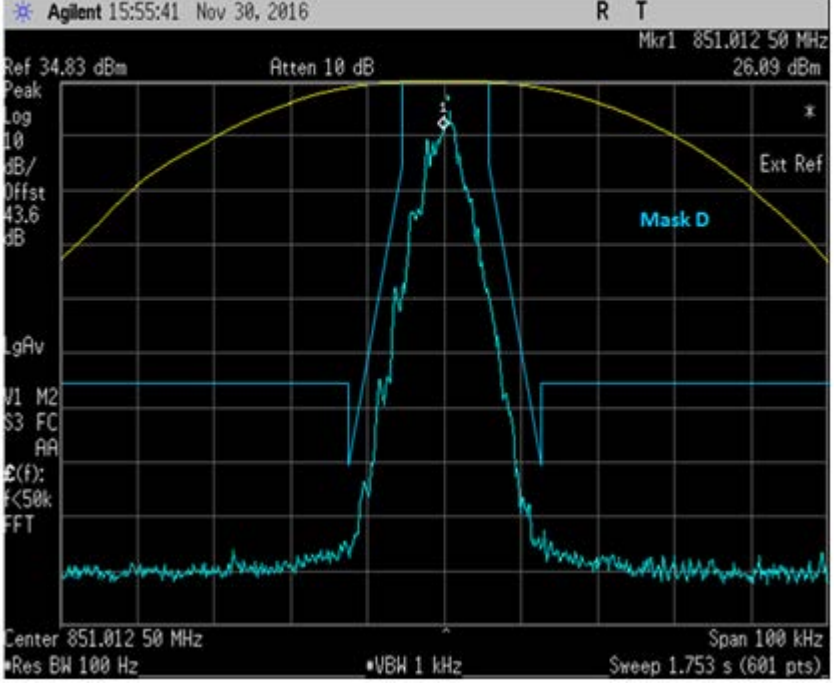
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	12.5	Digital Voice	6.5779	8K10F1E



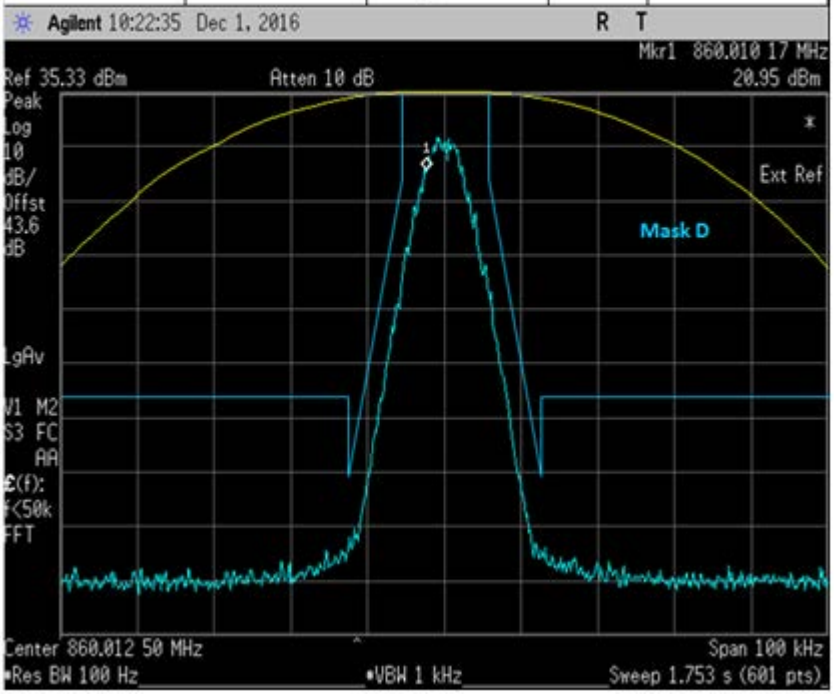
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
823.9875	12.5	Digital Voice	5.9863	8K10F1E



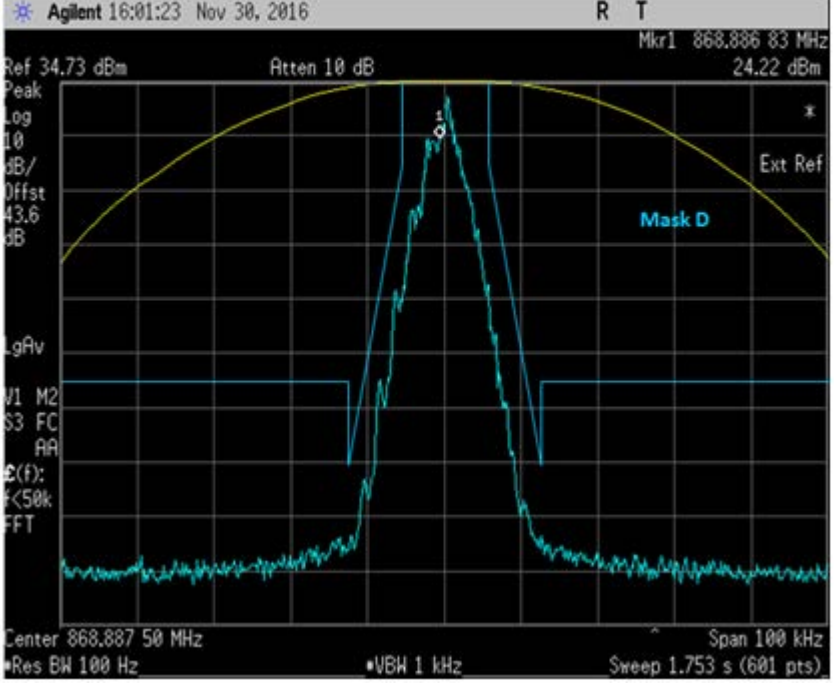
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
851.0125	12.5	Digital Voice	6.6445	8K10F1E



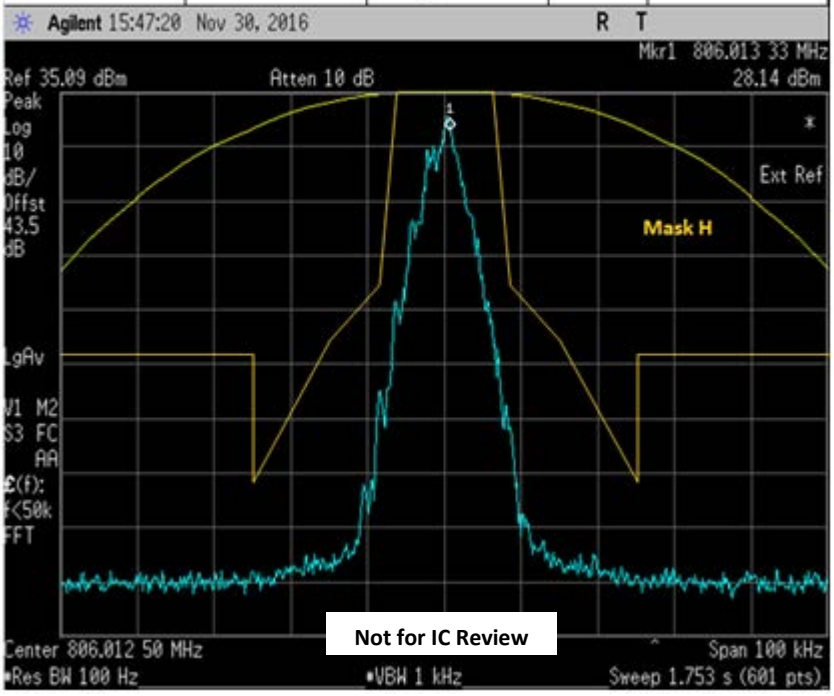
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	12.5	Digital Voice	6.5401	8K10F1E



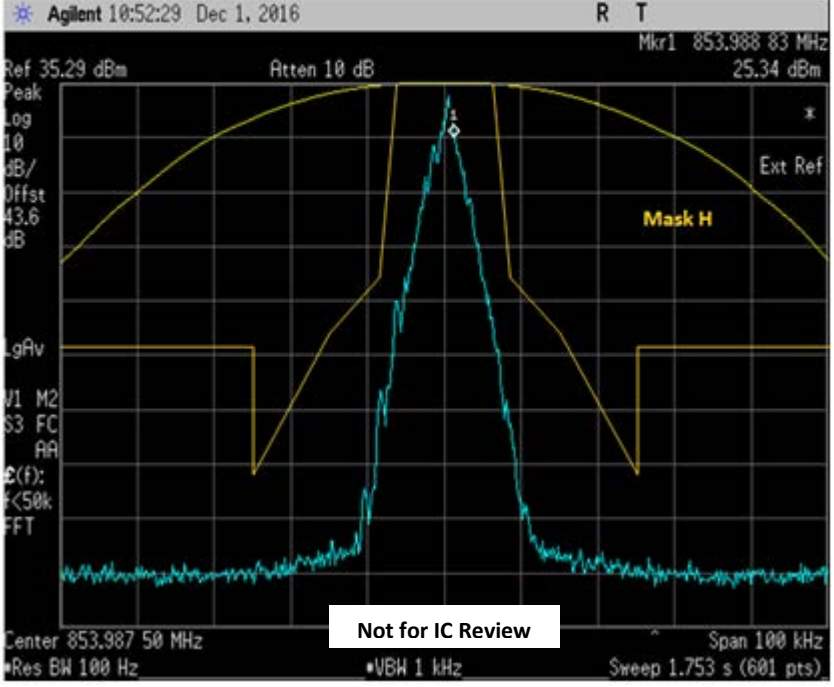
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
868.8875	12.5	Digital Voice	6.3554	8K10F1E



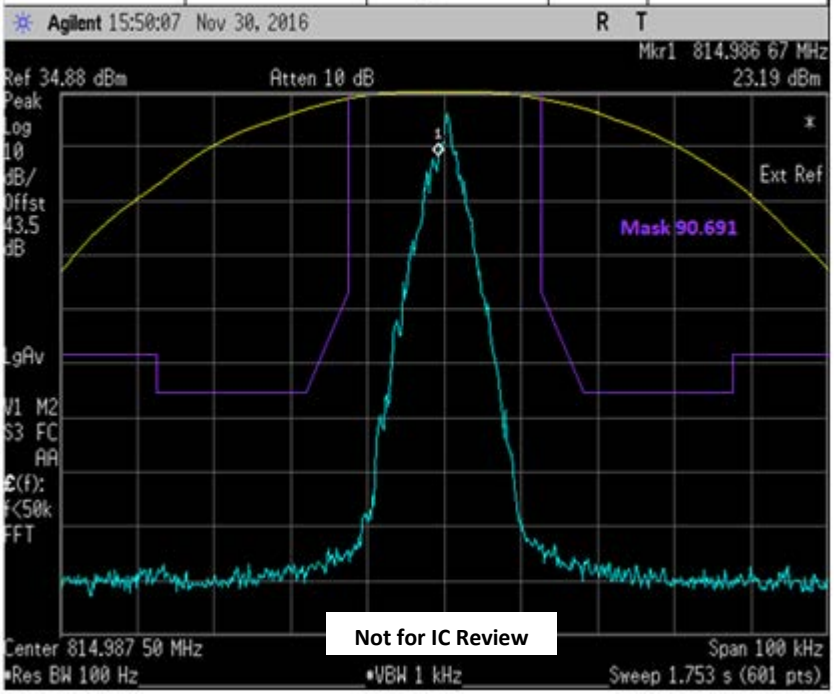
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
806.0125	12.5	Digital Voice	6.8095	8K10F1E



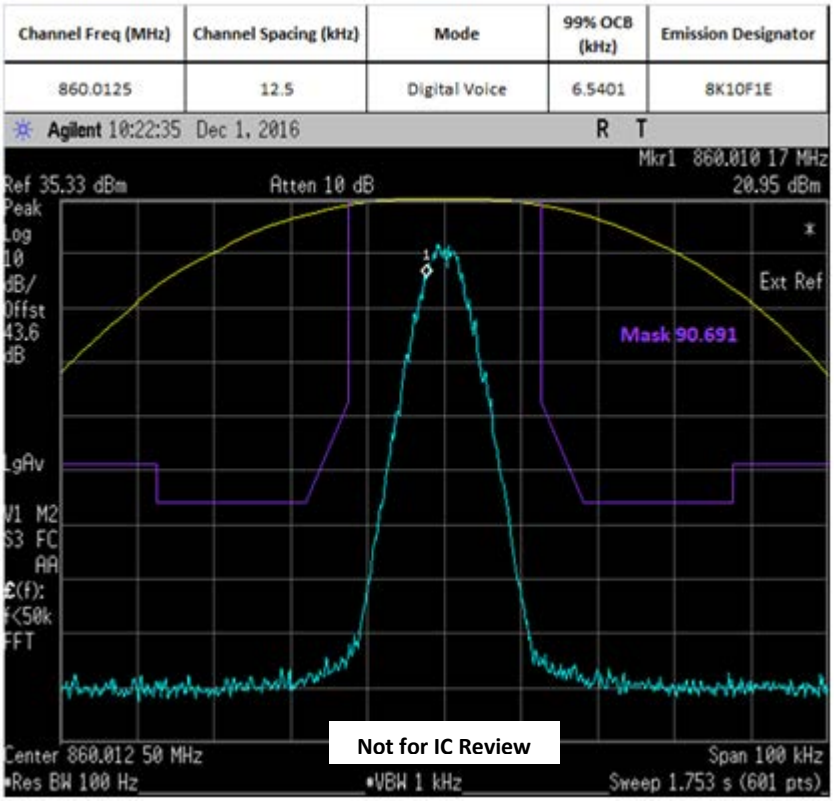
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
853.9875	12.5	Digital Voice	5.9167	8K10F1E



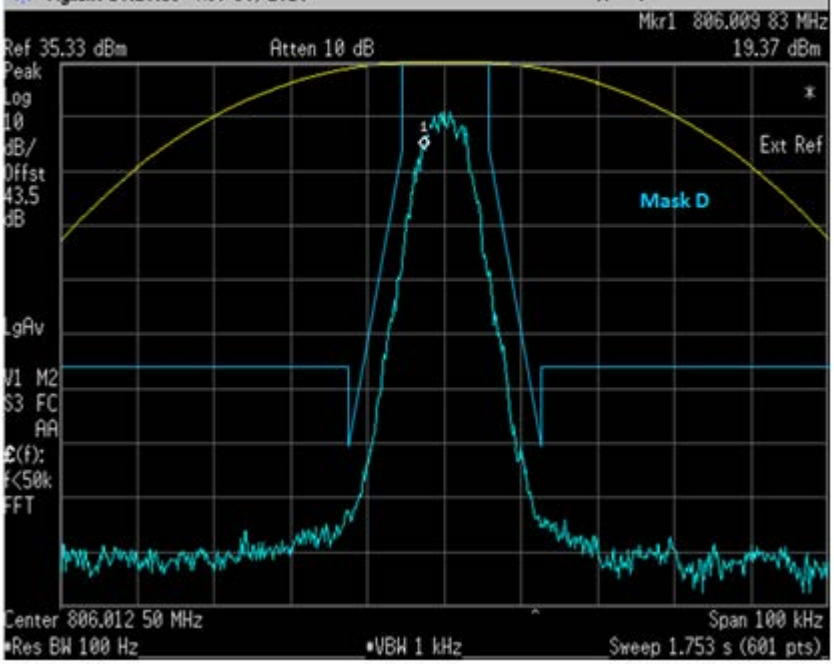
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	12.5	Digital Voice	6.5779	8K10F1E



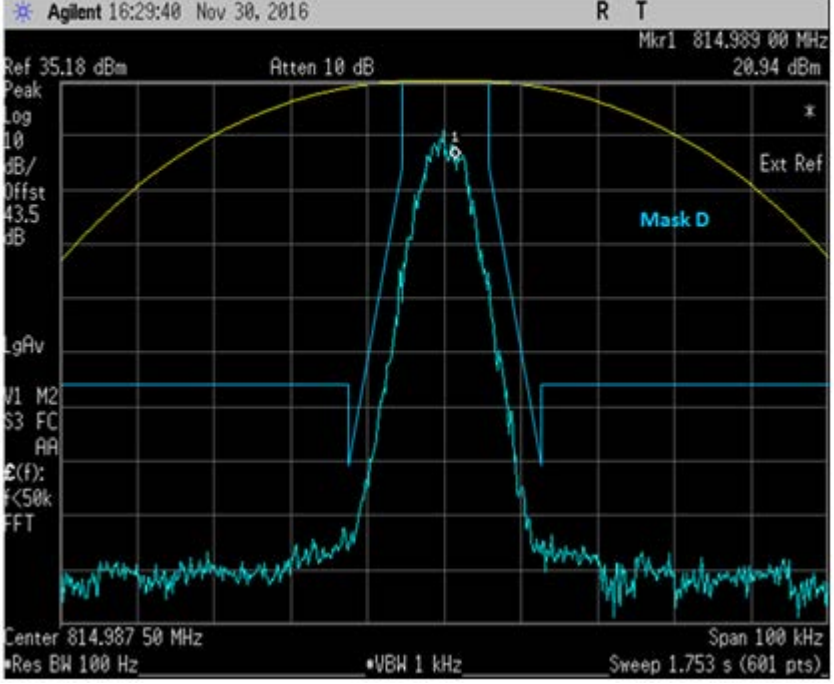
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	12.5	Digital Voice	6.5401	8K10F1E



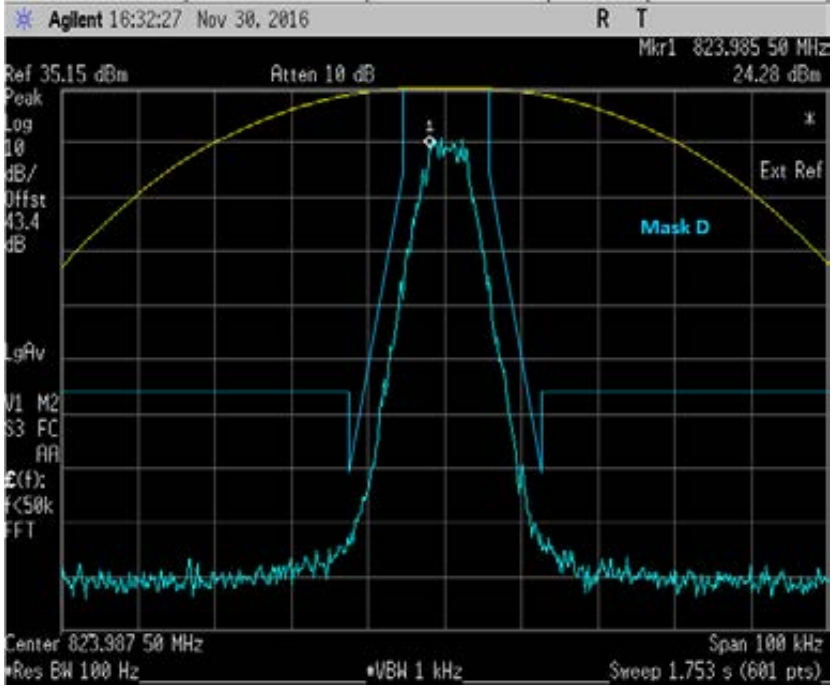
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
806.0125	12.5	Phase II	6.8663	8K10F1W



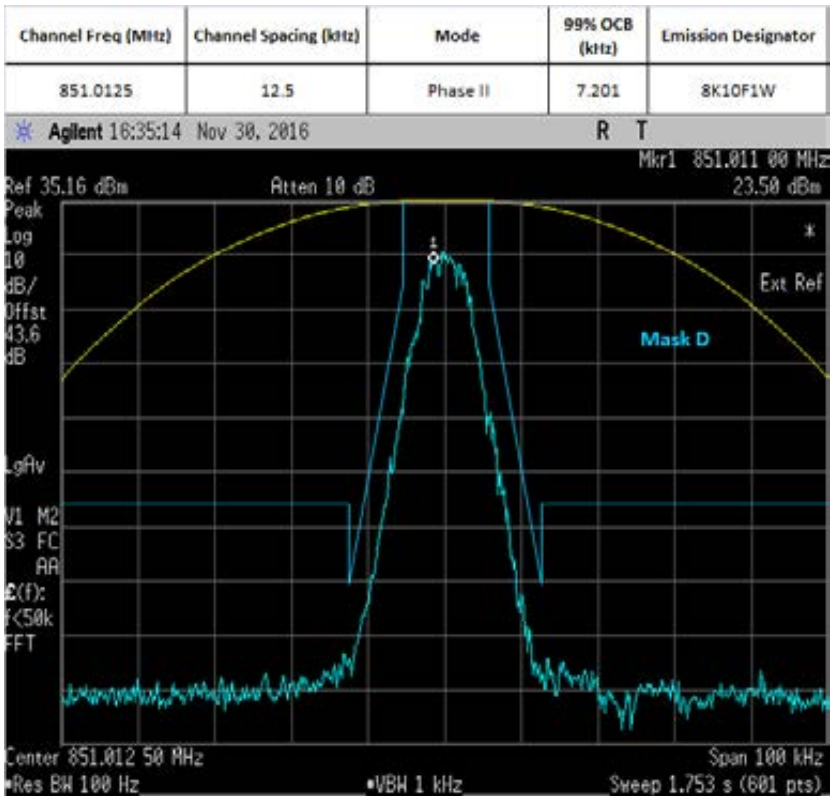
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	12.5	Phase II	7.9948	8K10F1W



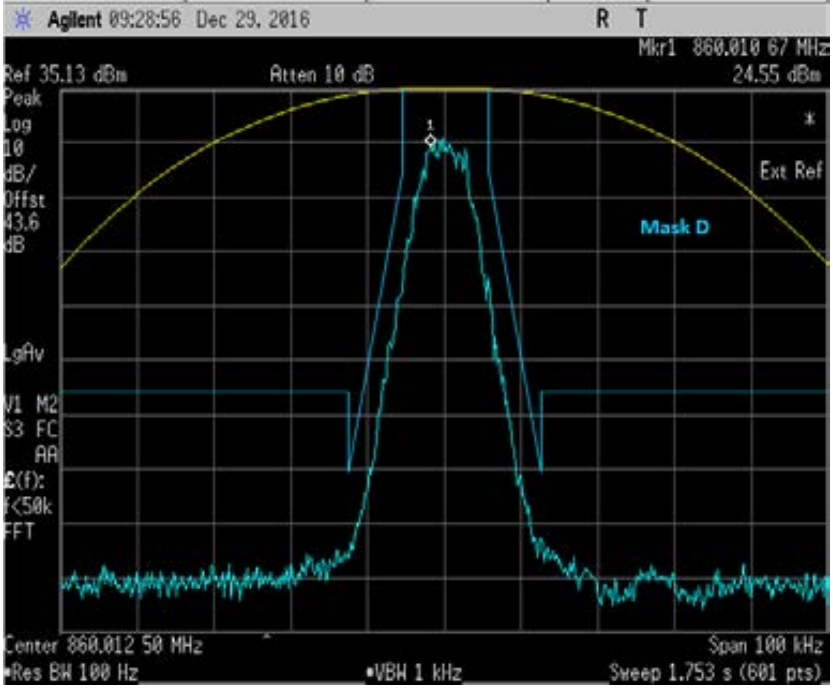
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
823.9875	12.5	Phase II	7.9889	8K10F1W



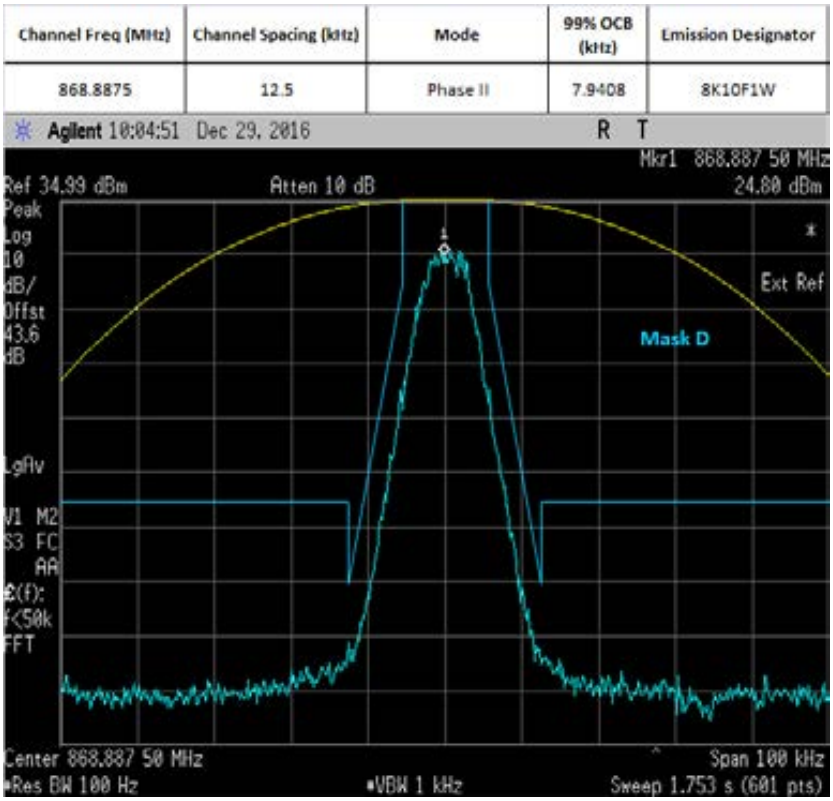
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
851.0125	12.5	Phase II	7.201	8K10F1W



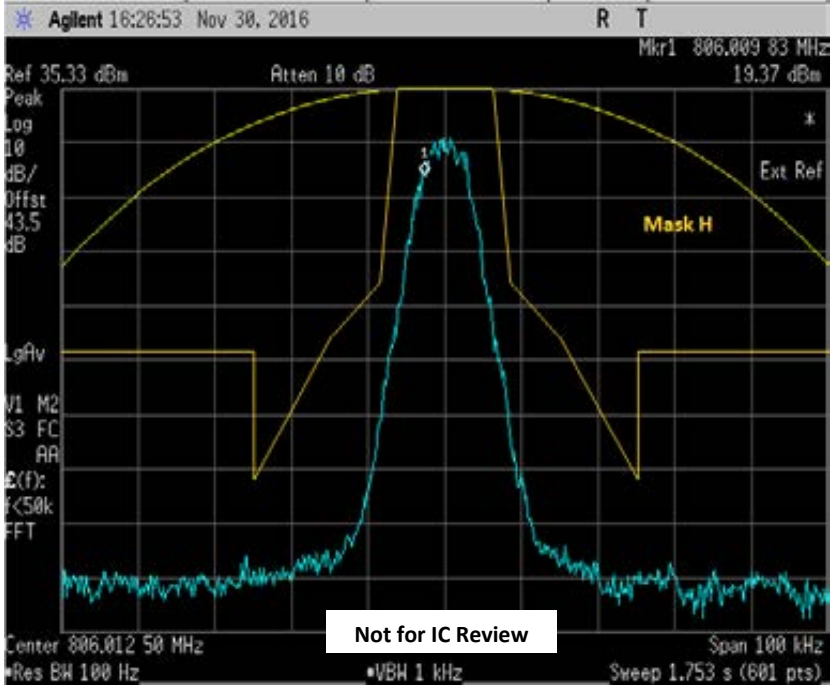
Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	12.5	Phase II	7.2373	8K10F1W



Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
868.8875	12.5	Phase II	7.9408	8K10F1W

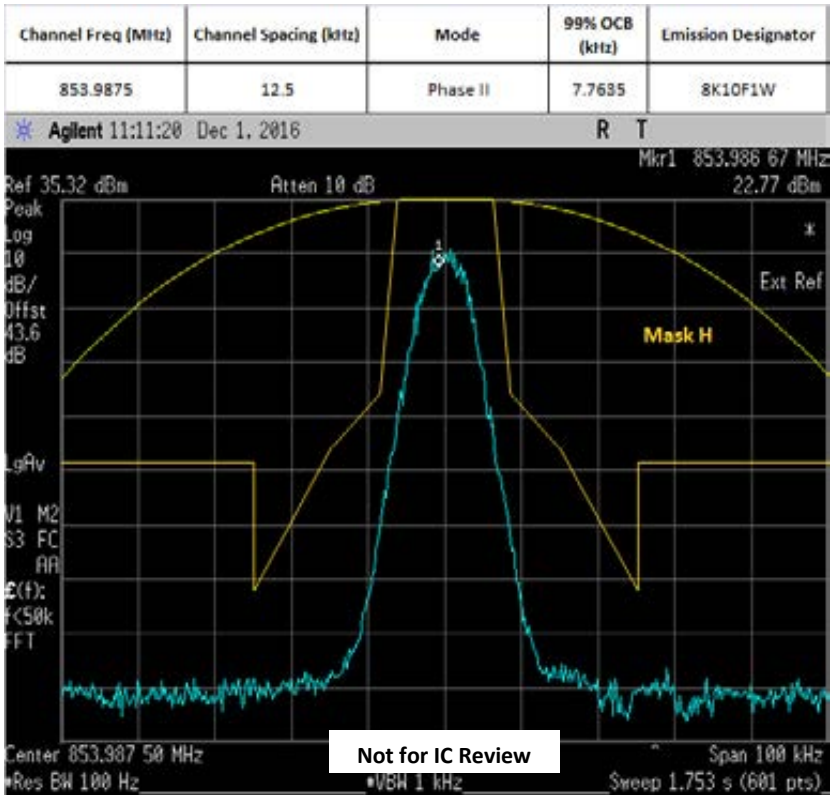


Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
806.0125	12.5	Phase II	6.8663	8K10F1W



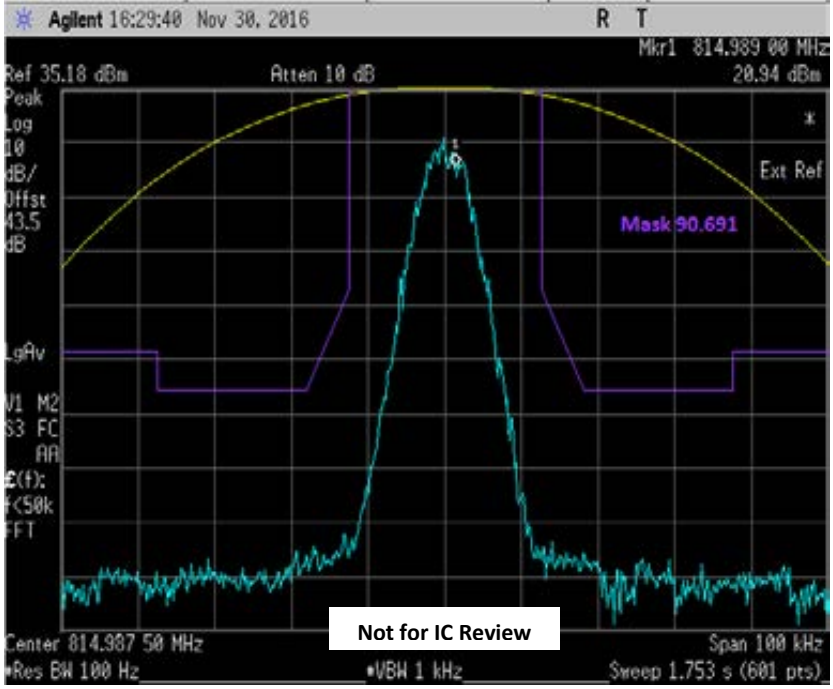
Not for IC Review

Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
853.9875	12.5	Phase II	7.7635	8K10F1W



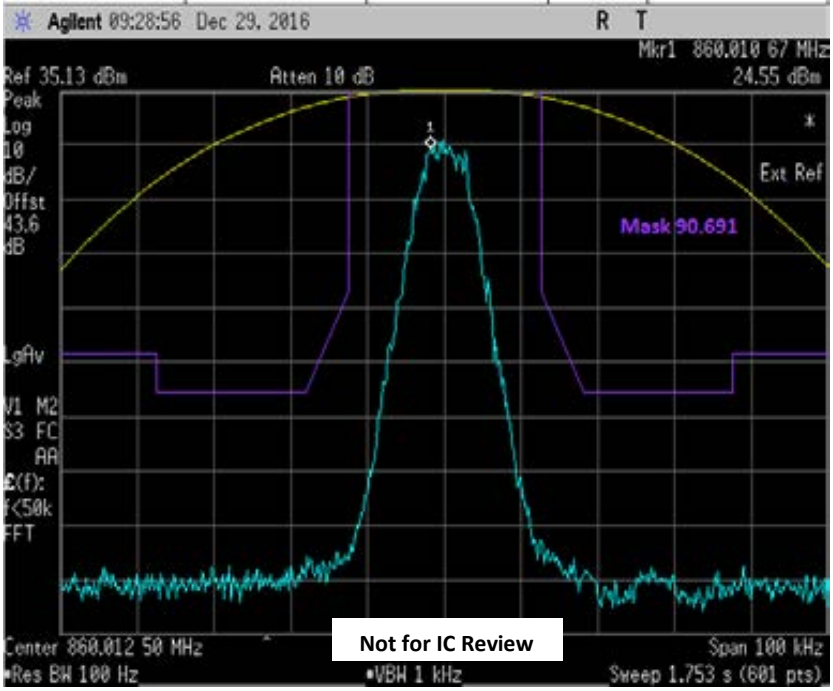
Not for IC Review

Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
814.9875	12.5	Phase II	7.9948	8K10F1W



Not for IC Review

Channel Freq (MHz)	Channel Spacing (kHz)	Mode	99% OCB (kHz)	Emission Designator
860.0125	12.5	Phase II	7.2373	8K10F1W



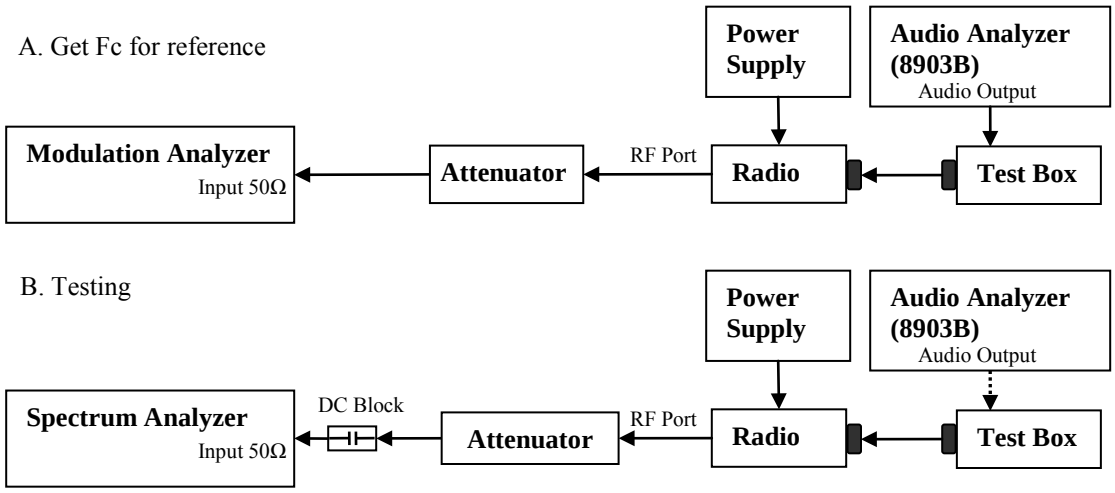
Not for IC Review

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)

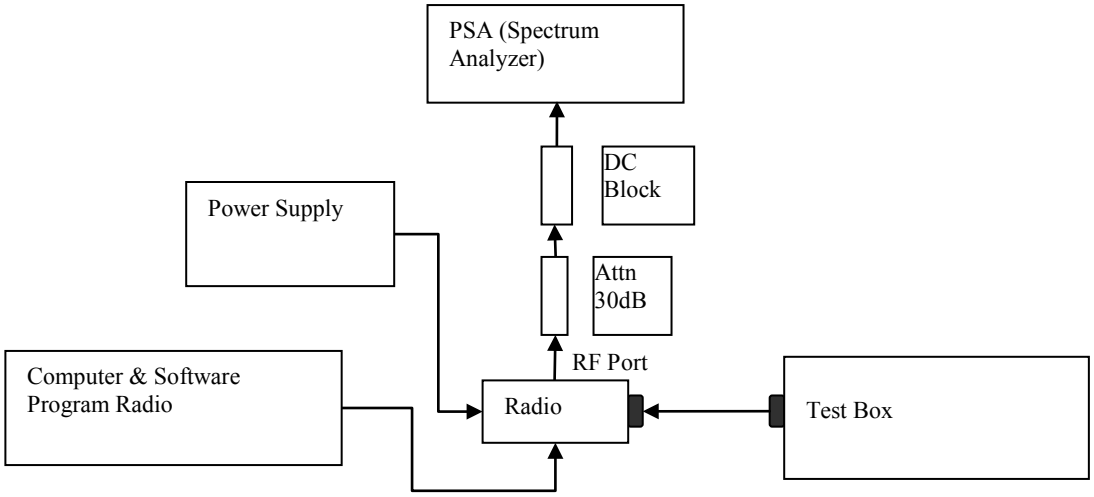


1) The DUT transmitter output port was connected to Modulation Analyzer.
2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
3) Path loss for the measurement included.
4) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
5) Key in the Fc and RBW= 100Hz.
6) Transmit the DUT and record the occupied Bandwidth frequencies.
7) Preset the spectrum analyzer for band edge measurement.
8) The band edges of lowest and highest channels were measured.
9) The center frequency of spectrum is the band edge frequency, span is 60 kHz and RBW is at least 1% of Emission Bandwidth.
10) Save the screen shot as modulated signal.
11) Remove the audio tone from audio analyzer to capture unmodulated signal.

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 RBW= 100Hz.
5) Transmit radio record the occupied Bandwidth frequencies.
6) Preset the spectrum analyzer for band edge measurement.
7) The band edges of lowest and highest channels were measured.
8) The center frequency of spectrum is the band edge frequency, span is 60 kHz and RBW is at least 1% of Emission Bandwidth.
9) Save the screen shot.

**Note:
- For Digital Modulation for 12.5 kHz Voice (F1E) and 12.5 kHz Data (F1D) would be the same. Therefore only measurements with F1E modulation shown below.

6.7.4. Test Result (Digital)

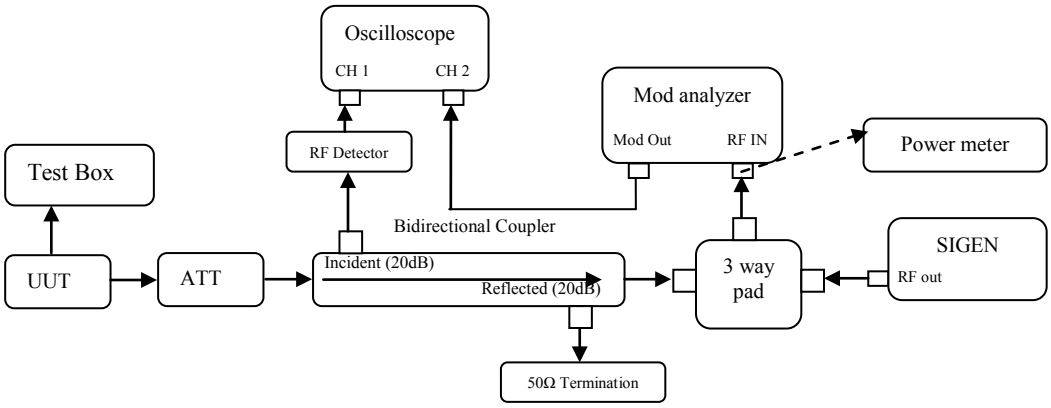
Not Applicable

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 ≤ -11dBm into power meter when UUT is keying up.
6) Note the power level on power meter and dekey the UUT.
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) Set the horizontal sweep rate on the storage oscilloscope to 10 milliseconds per division and adjust the display to continuously view the 1000 Hz. Adjust the vertical amplitude control of the oscilloscope to display the 1000 Hz at □4 divisions vertically centered on the display.
10) Reduce 30dB attenuation and transmit the radio to get the trigger line.
11) Capture the screen shot for key-up (rising edge) and de-key (falling edge) mode.

6.8.2. Test Result

Not Applicable

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] t_{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.

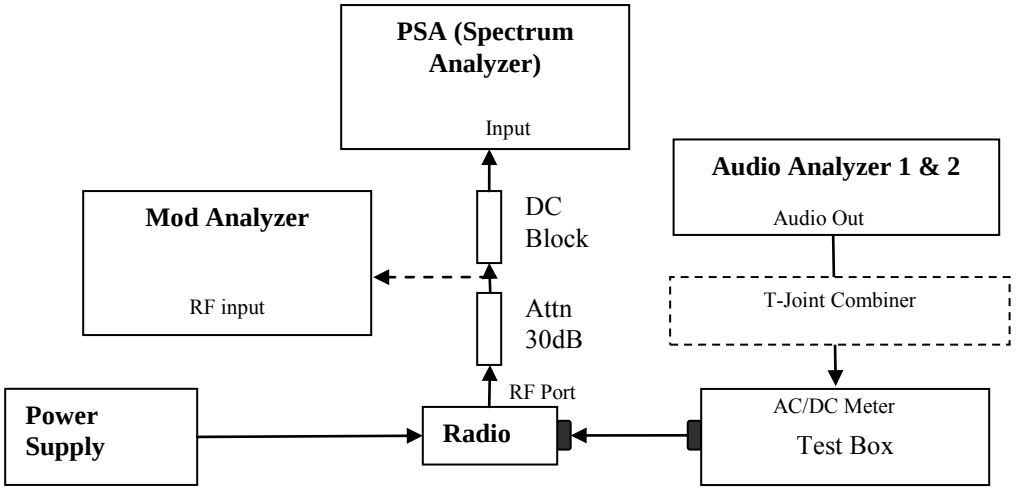
[2] During the time from the end of t_2 to the beginning of t_3, the frequency difference must not exceed the limits specified in §90.213.

[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) Path loss for the measurement included.
3) Transmit the radio and turn on 1st audio analyzer with audio frequency 650Hz, 50% rated deviation, and record the amplitude value as AmpT1.
4) 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.
5) Turn both audio analyzers ON and up 10dB amplitude level.
6) Connect the output to PSA and set to assigned center frequency.
7) Set Span, RBW and VBW as shown in FCC rules part 90.543.
8) Transmit the radio and record the ACP value in dBc.

6.9.2. Test Result

Mode	Analog			
Frequency, MHz	769.0875 MHz			
Channel Spacing, kHz	25			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
15.625	6.25	-73.213	-68.375	-40
21.875	6.25	-78.656	-78.666	-60
37.500	25	-73.925	-73.737	-65
62.500	25	-75.324	-75.652	-65
87.500	25	-78.063	-78.153	-65
150.000	100	-76.107	-76.226	-65
250.000	100	-80.702	-80.820	-65
350.000	100	-83.465	-83.448	-65
400k	30	-89.468	-89.135	-75
12M	30	-89.900	-89.774	-75
Remarks	Not for FCC Review			

Mode	Analog			
Frequency, MHz	774.8875 MHz			
Channel Spacing, kHz	25			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
15.625	6.25	-72.765	-72.569	-40
21.875	6.25	-77.590	-78.294	-60
37.500	25	-73.470	-73.580	-65
62.500	25	-75.418	-75.456	-65
87.500	25	-77.980	-77.984	-65
150.000	100	-76.156	-76.087	-65
250.000	100	-80.366	-80.753	-65
350.000	100	-82.641	-82.804	-65
400k	30	-88.804	-88.735	-75
12M	30	-89.261	-89.720	-75
Remarks	Not for FCC Review			

Mode	**Analog**			
Frequency, MHz	**799.0875 MHz**			
Channel Spacing, kHz	**25**			
Offset (kHz)	**Meas BW (kHz)**	Lower	Upper	**Spec (dB)**
15.625	6.25	-72.145	-72.726	-40
21.875	6.25	-78.353	-78.308	-60
37.500	25	-73.379	-73.504	-65
62.500	25	-75.547	-75.579	-65
87.500	25	-77.975	-77.912	-65
150.000	100	-76.056	-76.135	-65
250.000	100	-80.632	-80.549	-65
350.000	100	-82.803	-82.777	-65
400k	30	-88.400	-88.174	-75
12M	30	-89.466	-89.204	-75
Remarks	**Not for FCC Review**			

Mode	**Analog**			
Frequency, MHz	**804.9125 MHz**			
Channel Spacing, kHz	**25**			
Offset (kHz)	**Meas BW (kHz)**	Lower	Upper	**Spec (dB)**
15.625	6.25	-73.830	-73.457	-40
21.875	6.25	-78.815	-78.329	-60
37.500	25	-73.705	-74.213	-65
62.500	25	-75.621	-75.809	-65
87.500	25	-78.207	-78.041	-65
150.000	100	-76.041	-76.423	-65
250.000	100	-81.083	-81.057	-65
350.000	100	-83.199	-83.451	-65
400k	30	-88.903	-88.808	-75
12M	30	-89.886	-90.025	-75

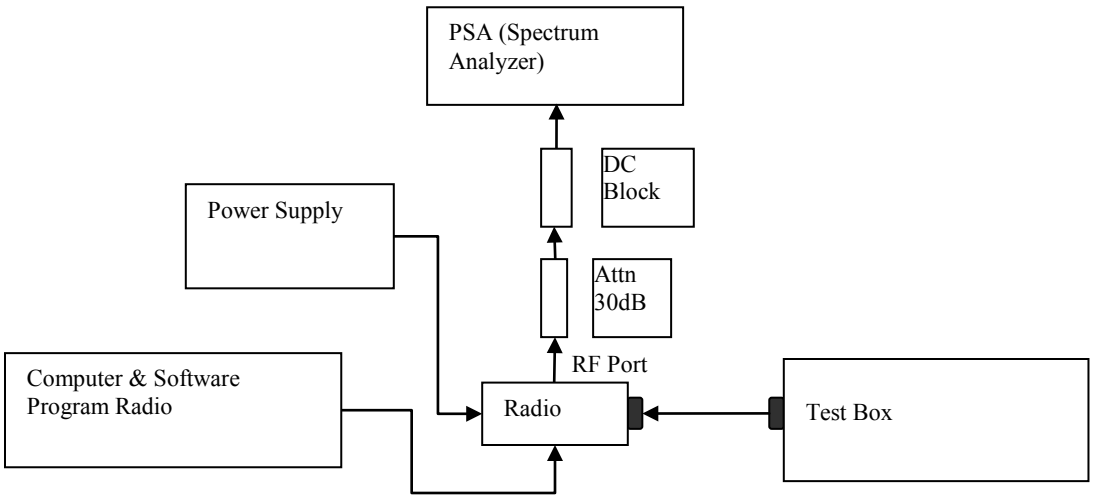
Mode	**Analog**			
Frequency, MHz	**769.0875 MHz**			
Channel Spacing, kHz	**12.5**			
Offset (kHz)	**Meas BW (kHz)**	Lower	Upper	**Spec (dB)**
9.375	6.25	-48.170	-48.211	-40
15.625	6.25	-76.804	-76.178	-60
21.875	6.25	-78.949	-78.806	-60
37.500	25	-73.858	-74.189	-65
62.500	25	-75.682	-75.565	-65
87.500	25	-78.102	-78.385	-65
150.000	100	-76.378	-76.449	-65
250.000	100	-81.126	-81.169	-65
350.000	100	-83.734	-83.672	-65
400k	30	-88.910	-89.405	-75
12M	30	-90.808	-90.444	-75

Mode	**Analog**			
Frequency, MHz	**774.8875 MHz**			
Channel Spacing, kHz	**12.5**			
Offset (kHz)	**Meas BW (kHz)**	Lower	Upper	**Spec (dB)**
9.375	6.25	-48.182	-49.291	-40
15.625	6.25	-77.337	-77.521	-60
21.875	6.25	-79.044	-78.612	-60
37.500	25	-73.832	-74.040	-65
62.500	25	-75.546	-75.652	-65
87.500	25	-78.111	-78.236	-65
150.000	100	-76.164	-76.281	-65
250.000	100	-80.975	-80.972	-65
350.000	100	-83.436	-83.345	-65
400k	30	-89.325	-89.160	-75
12M	30	-89.817	-89.945	-75

Mode	Analog			
Frequency, MHz	799.0875 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-48.231	-49.330	-40
15.625	6.25	-76.284	-76.218	-60
21.875	6.25	-78.267	-78.277	-60
37.500	25	-73.433	-73.538	-65
62.500	25	-75.440	-75.501	-65
87.500	25	-77.905	-78.214	-65
150.000	100	-76.196	-76.096	-65
250.000	100	-80.706	-80.636	-65
350.000	100	-82.964	-82.801	-65
400k	30	-88.563	-89.172	-75
12M	30	-89.943	-89.652	-75

Mode	Analog			
Frequency, MHz	804.9125 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-48.205	-48.828	-40
15.625	6.25	-75.694	-76.649	-60
21.875	6.25	-78.084	-77.909	-60
37.500	25	-73.720	-73.733	-65
62.500	25	-75.340	-75.707	-65
87.500	25	-77.859	-78.226	-65
150.000	100	-75.990	-75.879	-65
250.000	100	-80.498	-80.721	-65
350.000	100	-82.758	-82.887	-65
400k	30	-88.661	-88.764	-75
12M	30	-89.291	-89.642	-75

6.9.3. Test Setup (Digital)



1) Program and set radio to operate in desire test frequency and digital mode with modulation. (4FSK, C4FM, CQPSK or other digital modulation form).
2) Path loss for the measurement included.
3) Prepare setup as per picture.
4) Turn on the ACP Measurement – Press Measure, ACP.
5) Set Span, RBW and VBW as shown in FCC rules part 90.543.
6) Transmit the radio and record the ACP value in dBc.

6.9.4. Test Result

Mode	Digital Data			
Frequency, MHz	769.0875 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-43.746	-42.796	-40
15.625	6.25	-77.049	-76.765	-60
21.875	6.25	-78.839	-79.112	-60
37.500	25	-74.100	-74.057	-65
62.500	25	-75.579	-75.617	-65
87.500	25	-78.369	-78.319	-65
150.000	100	-76.086	-76.393	-65
250.000	100	-81.187	-81.052	-65
350.000	100	-83.651	-83.631	-65
400k	30	-88.976	-88.961	-75
12M	30	-90.029	-90.694	-75

Mode	Digital Data			
Frequency, MHz	774.8875 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-40.317	-43.331	-40
15.625	6.25	-77.170	-77.636	-60
21.875	6.25	-78.593	-78.952	-60
37.500	25	-73.816	-73.874	-65
62.500	25	-75.869	-75.696	-65
87.500	25	-78.047	-78.376	-65
150.000	100	-76.240	-76.272	-65
250.000	100	-80.787	-81.120	-65
350.000	100	-83.287	-83.543	-65
400k	30	-89.346	-89.301	-75
12M	30	-90.234	-90.202	-75

Mode	Digital Data			
Frequency, MHz	799.0875 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-44.910	-48.100	-40
15.625	6.25	-76.376	-75.745	-60
21.875	6.25	-77.578	-78.310	-60
37.500	25	-73.327	-73.402	-65
62.500	25	-75.392	-75.317	-65
87.500	25	-78.084	-78.391	-65
150.000	100	-76.170	-76.069	-65
250.000	100	-80.785	-80.646	-65
350.000	100	-82.895	-82.805	-65
400k	30	-89.262	-88.185	-75
12M	30	-89.972	-90.237	-75

Mode	Digital Data			
Frequency, MHz	804.9125 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-40.239	-41.010	-40
15.625	6.25	-75.858	-75.739	-60
21.875	6.25	-78.544	-77.980	-60
37.500	25	-73.624	-73.696	-65
62.500	25	-75.341	-75.456	-65
87.500	25	-78.157	-78.255	-65
150.000	100	-75.890	-75.986	-65
250.000	100	-80.549	-80.639	-65
350.000	100	-82.687	-82.810	-65
400k	30	-88.608	-88.932	-75
12M	30	-89.186	-89.206	-75

Mode	Digital Voice			
Frequency, MHz	769.0875 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-46.303	-46.066	-40
15.625	6.25	-77.499	-76.706	-60
21.875	6.25	-78.807	-78.094	-60
37.500	25	-73.980	-73.704	-65
62.500	25	-75.668	-75.767	-65
87.500	25	-78.353	-78.132	-65
150.000	100	-76.379	-76.154	-65
250.000	100	-81.049	-81.039	-65
350.000	100	-83.463	-83.235	-65
400k	30	-89.360	-89.612	-75
12M	30	-90.117	-90.450	-75

Mode	Digital Voice			
Frequency, MHz	774.8875 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-48.184	-47.679	-40
15.625	6.25	-73.915	-74.612	-60
21.875	6.25	-77.664	-78.559	-60
37.500	25	-73.851	-73.231	-65
62.500	25	-75.720	-75.587	-65
87.500	25	-78.145	-78.138	-65
150.000	100	-76.175	-76.139	-65
250.000	100	-80.829	-80.681	-65
350.000	100	-83.269	-83.449	-65
400k	30	-89.068	-88.999	-75
12M	30	-90.158	-89.921	-75

Mode	Digital Voice			
Frequency, MHz	799.0875 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-47.151	-47.620	-40
15.625	6.25	-76.076	-75.752	-60
21.875	6.25	-78.148	-77.572	-60
37.500	25	-73.488	-73.457	-65
62.500	25	-75.585	-75.603	-65
87.500	25	-78.107	-77.913	-65
150.000	100	-76.276	-76.043	-65
250.000	100	-80.679	-80.528	-65
350.000	100	-82.757	-82.665	-65
400k	30	-88.336	-88.950	-75
12M	30	-89.918	-89.421	-75

Mode	Digital Voice			
Frequency, MHz	804.9125 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-45.252	-46.653	-40
15.625	6.25	-76.263	-75.448	-60
21.875	6.25	-78.441	-77.933	-60
37.500	25	-73.596	-73.553	-65
62.500	25	-75.262	-75.154	-65
87.500	25	-77.907	-77.691	-65
150.000	100	-75.791	-75.837	-65
250.000	100	-80.682	-80.404	-65
350.000	100	-82.891	-82.922	-65
400k	30	-88.712	-89.149	-75
12M	30	-89.478	-89.243	-75

Mode	Phase II			
Frequency, MHz	769.0875 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-44.154	-46.167	-40
15.625	6.25	-79.894	-79.959	-60
21.875	6.25	-81.919	-80.969	-60
37.500	25	-77.372	-76.779	-65
62.500	25	-78.662	-78.656	-65
87.500	25	-81.090	-81.326	-65
150.000	100	-79.005	-78.899	-65
250.000	100	-83.160	-83.272	-65
350.000	100	-84.779	-84.803	-65
400k	30	-89.728	-89.947	-75
12M	30	-90.454	-90.396	-75

Mode	Phase II			
Frequency, MHz	774.8875 MHz			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-43.201	-46.385	-40
15.625	6.25	-80.156	-79.472	-60
21.875	6.25	-81.913	-82.637	-60
37.500	25	-76.873	-76.907	-65
62.500	25	-78.753	-78.409	-65
87.500	25	-81.196	-80.967	-65
150.000	100	-79.094	-79.259	-65
250.000	100	-83.169	-83.016	-65
350.000	100	-84.927	-84.726	-65
400k	30	-90.277	-90.615	-75
12M	30	-89.962	-90.705	-75

Mode	**Phase II**			
Frequency, MHz	**799.0875 MHz**			
Channel Spacing, kHz	**12.5**			
Offset (kHz)	**Meas BW (kHz)**	Lower	Upper	**Spec (dB)**
9.375	6.25	-43.248	-44.458	-40
15.625	6.25	-78.488	-78.707	-60
21.875	6.25	-80.657	-80.654	-60
37.500	25	-76.517	-76.521	-65
62.500	25	-78.618	-78.680	-65
87.500	25	-81.245	-80.927	-65
150.000	100	-78.917	-78.843	-65
250.000	100	-82.937	-82.567	-65
350.000	100	-84.255	-84.225	-65
400k	30	-89.912	-89.261	-75
12M	30	-90.151	-90.253	-75

Mode	**Phase II**			
Frequency, MHz	**804.9125 MHz**			
Channel Spacing, kHz	**12.5**			
Offset (kHz)	**Meas BW (kHz)**	Lower	Upper	**Spec (dB)**
9.375	6.25	-44.052	-45.274	-40
15.625	6.25	-77.982	-78.760	-60
21.875	6.25	-80.898	-81.048	-60
37.500	25	-76.462	-76.477	-65
62.500	25	-78.349	-78.544	-65
87.500	25	-81.069	-81.172	-65
150.000	100	-78.853	-78.838	-65
250.000	100	-83.037	-82.874	-65
350.000	100	-84.290	-84.338	-65
400k	30	-89.335	-90.066	-75
12M	30	-90.473	-90.073	-75

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

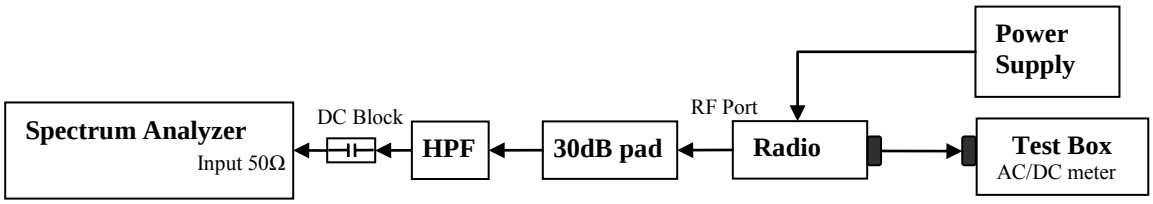
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band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

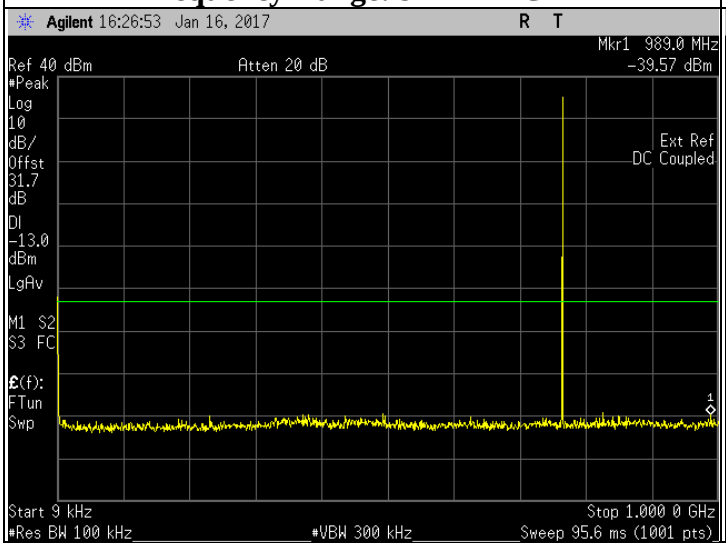


1) The DUT transmitter output port was connected to Spectrum Analyzer with above setup.
2) Program and set radio to operate in desire test frequency and mode. (Analog / digital modulation form).
3) Adjust the PSA RBW = 100 kHz for spur emission below 1 GHz, and 1 MHz for spur emission above 1GHz.
4) Set the Ref offset from the pathloss offset calibration file.
5) Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from:
   (a) The lowest radio frequency to Fc – Test BW
   (b) Fc + Test BW to Freq < 2Fc.
6) Record the levels of spurious emissions and dekey the UUT.
7) Turn On HPF path and Key up the UUT.
8) Adjust the PSA Freq for incremental coverage of range from 2Fc to 10Fc.
9) The levels recorded are the absolute levels of conducted spurious emissions in dBm.

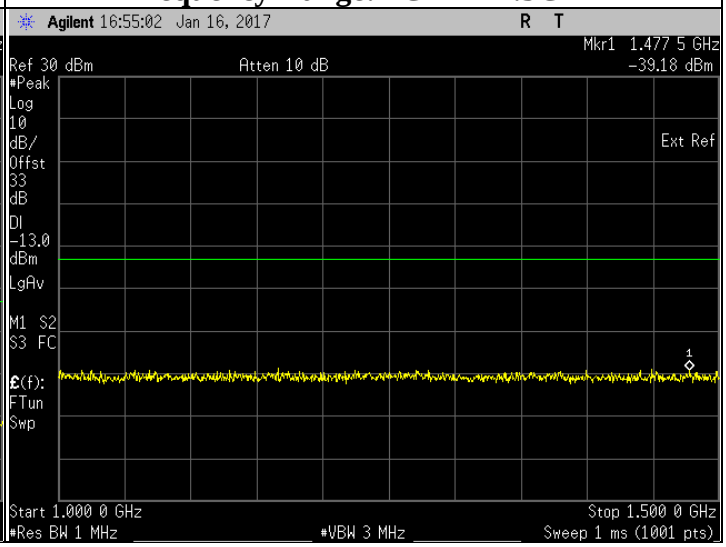
6.10.2. Test Result (Analog)

Analog: 764.0125 MHz, 12.5kHz Channel Spacing, Max Power

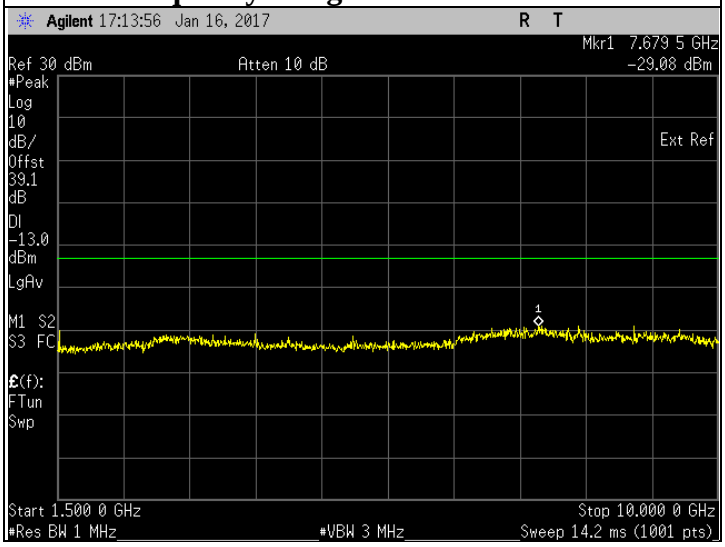
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



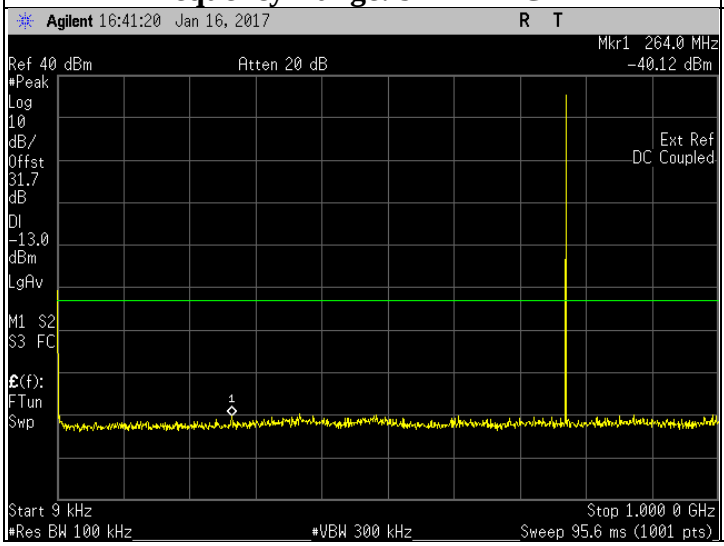
Frequency Range: 1.5GHz ~ 10GHz



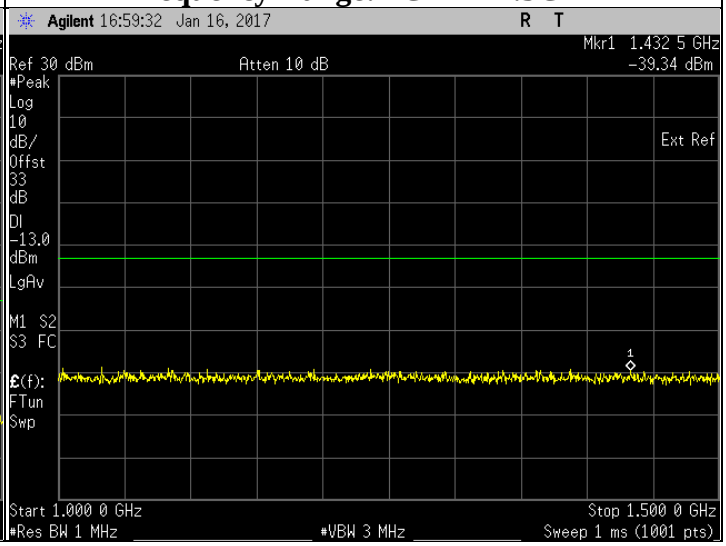
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	989.0	-39.57	-13	Pass
1GHz ~ 1.5GHz	1477.5	-39.18	-13	Pass
1.5GHz ~ 10GHz	7679.5	-29.08	-13	Pass

Analog: 769.0125 MHz, 12.5kHz Channel Spacing, 2W Power

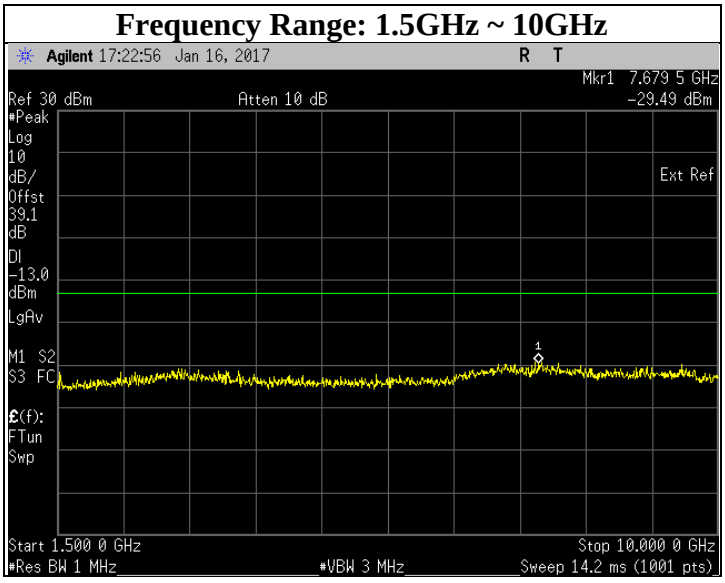
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



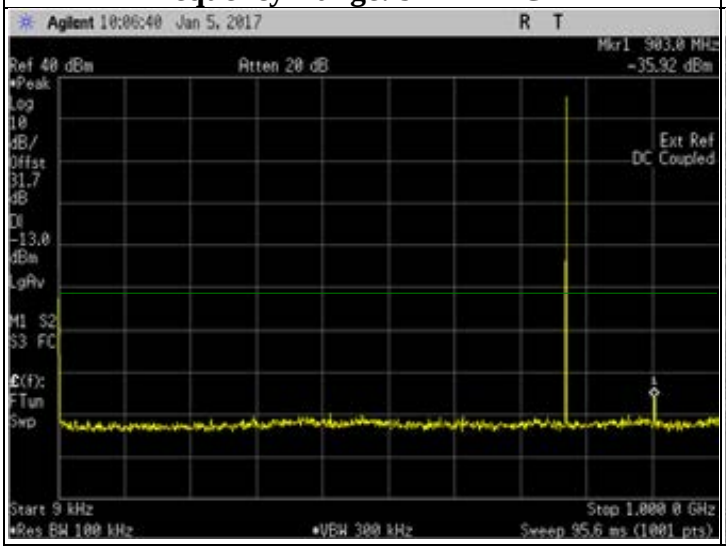
Frequency Range: 1.5GHz ~ 10GHz



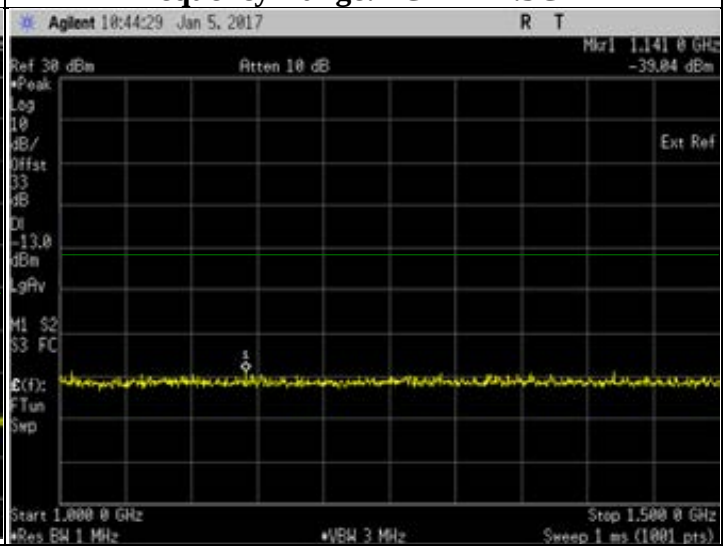
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	264.0	-40.12	-13	Pass
1GHz ~ 1.5GHz	1432.5	-39.34	-13	Pass
1.5GHz ~ 10GHz	7679.5	-29.49	-13	Pass

Analog: 769.0875 MHz, 12.5kHz Channel Spacing, Max Power

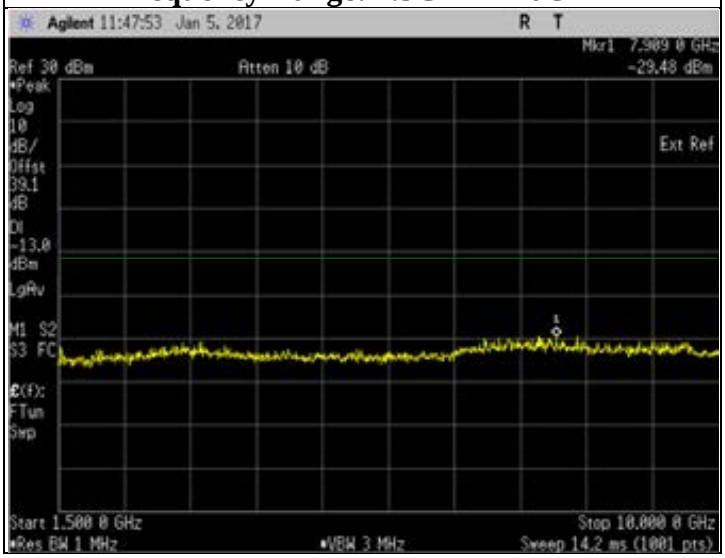
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



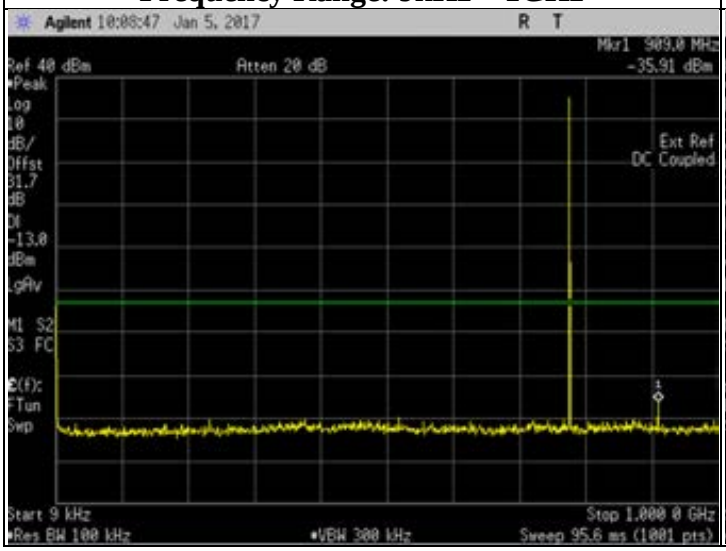
Frequency Range: 1.5GHz ~ 10GHz



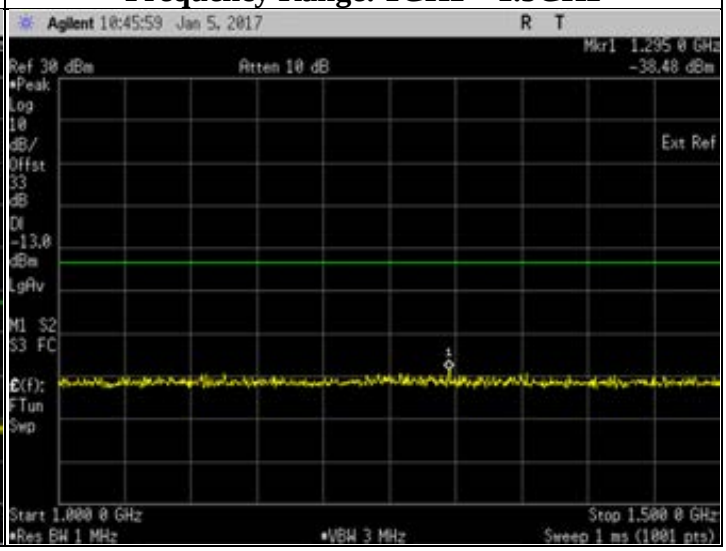
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	903.0	-35.92	-13	Pass
1GHz ~ 1.5GHz	1141.0	-39.04	-13	Pass
1.5GHz ~ 10GHz	7909.0	-29.48	-13	Pass

Analog: 774.8875 MHz, 12.5kHz Channel Spacing, Max Power

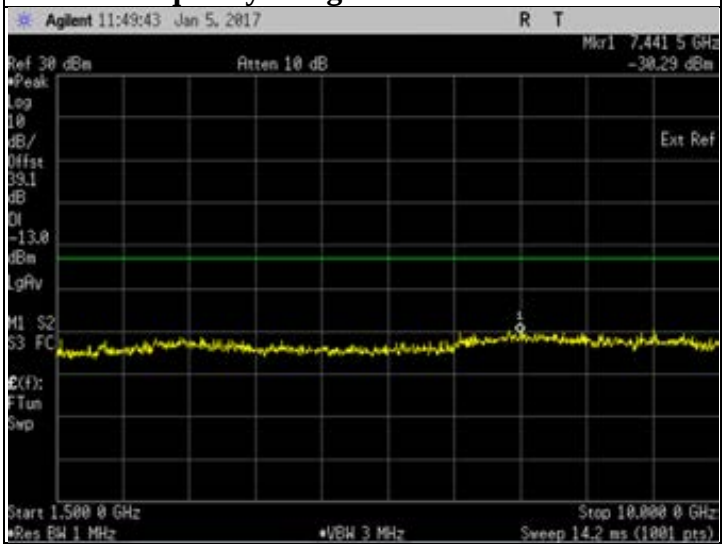
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



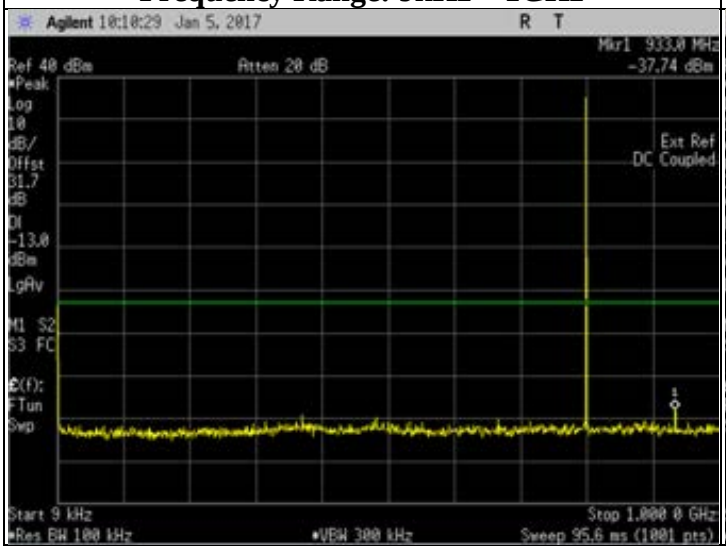
Frequency Range: 1.5GHz ~ 10GHz



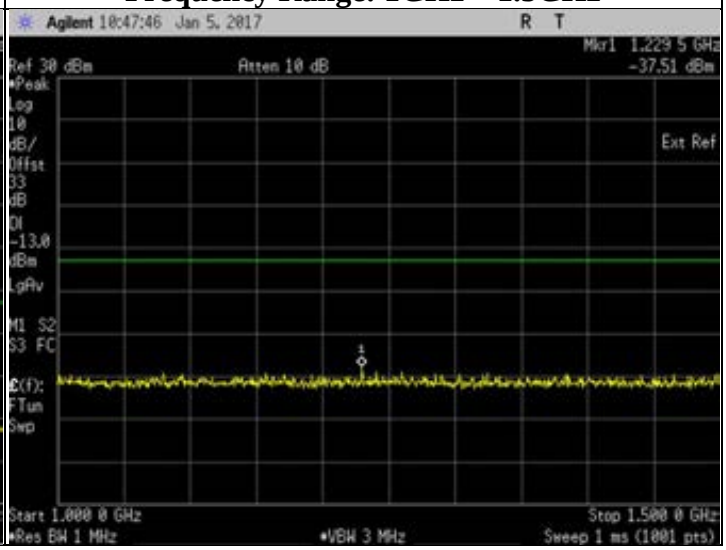
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	909.0	-35.91	-13	Pass
1GHz ~ 1.5GHz	1295.5	-38.48	-13	Pass
1.5GHz ~ 10GHz	7441.5	-30.29	-13	Pass

Analog: 799.0875 MHz, 12.5kHz Channel Spacing, Max Power

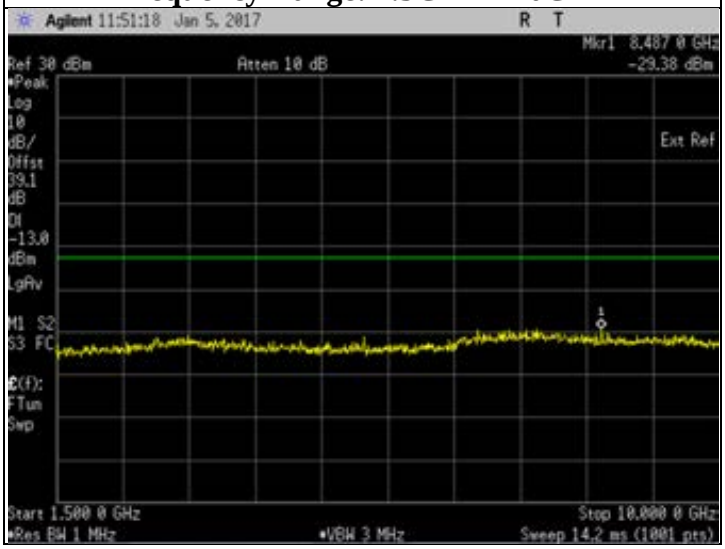
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



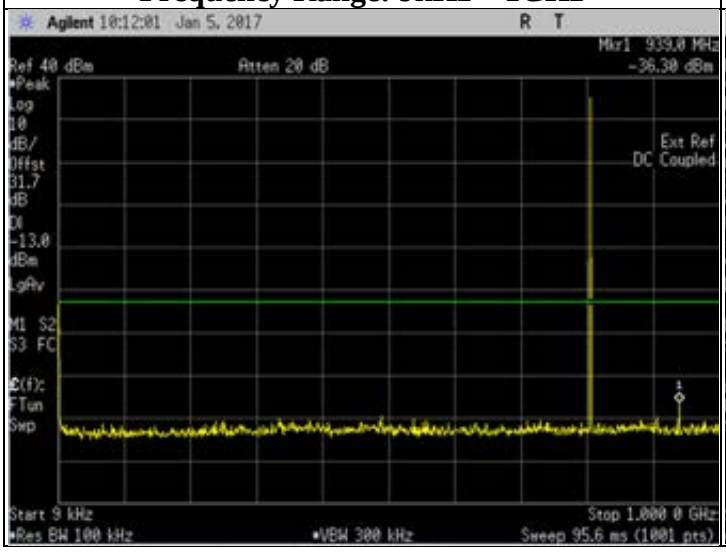
Frequency Range: 1.5GHz ~ 10GHz



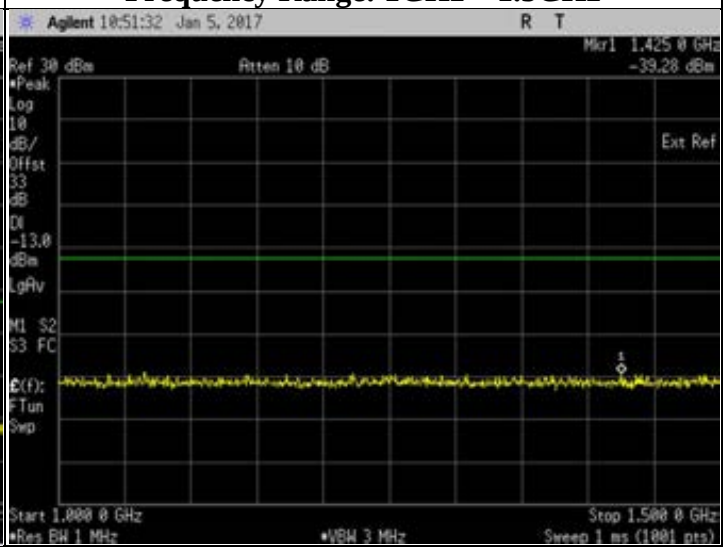
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	933.0	-37.74	-13	Pass
1GHz ~ 1.5GHz	1229.5	-37.51	-13	Pass
1.5GHz ~ 10GHz	8487.0	-29.38	-13	Pass

Analog: 804.9125 MHz, 12.5kHz Channel Spacing, Max Power

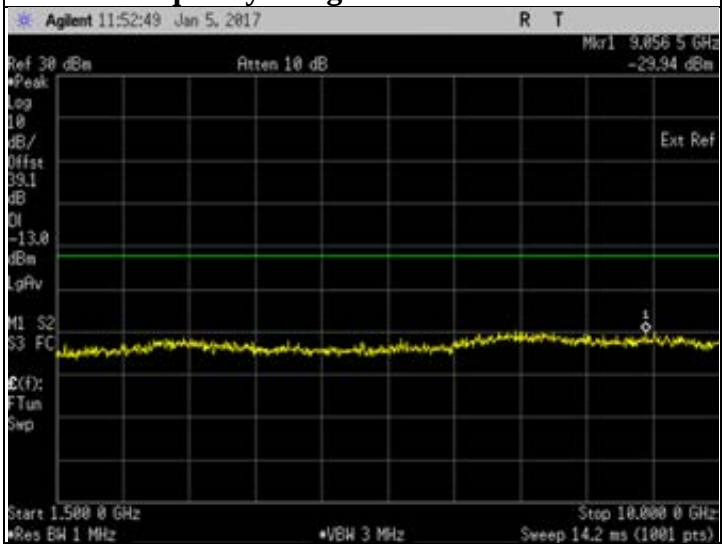
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



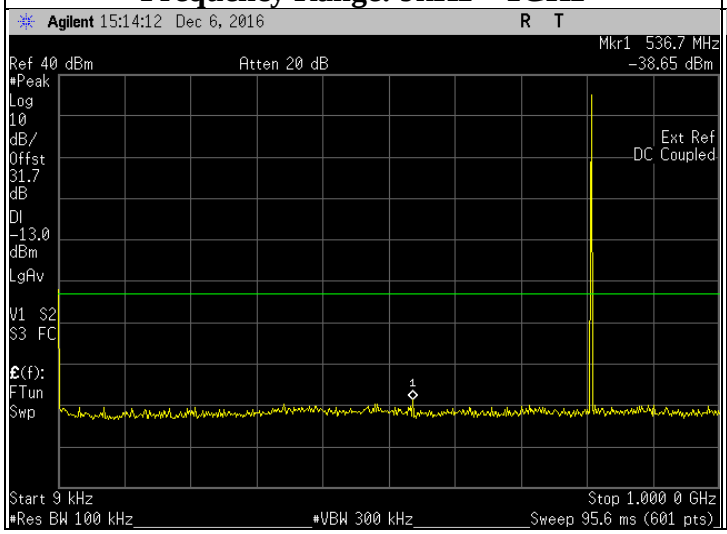
Frequency Range: 1.5GHz ~ 10GHz



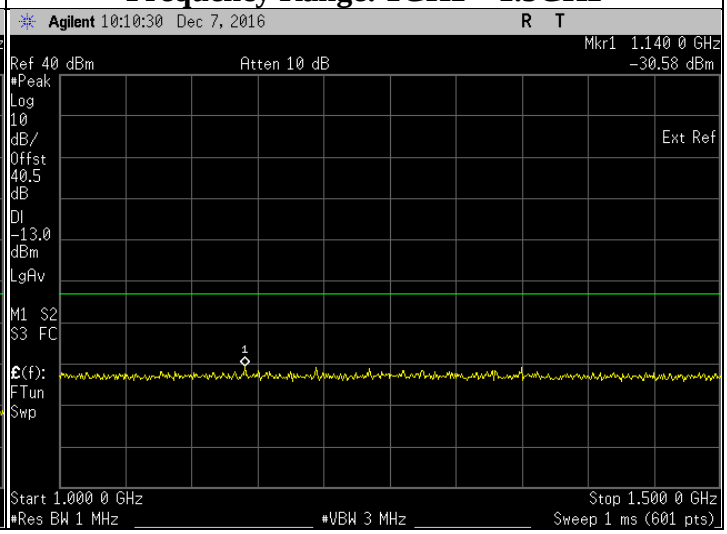
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	939.0	-36.30	-13	Pass
1GHz ~ 1.5GHz	1425.0	-38.28	-13	Pass
1.5GHz ~ 10GHz	9056.5	-29.94	-13	Pass

Analog: 806.0125 MHz, 25.0kHz Channel Spacing, Max Power

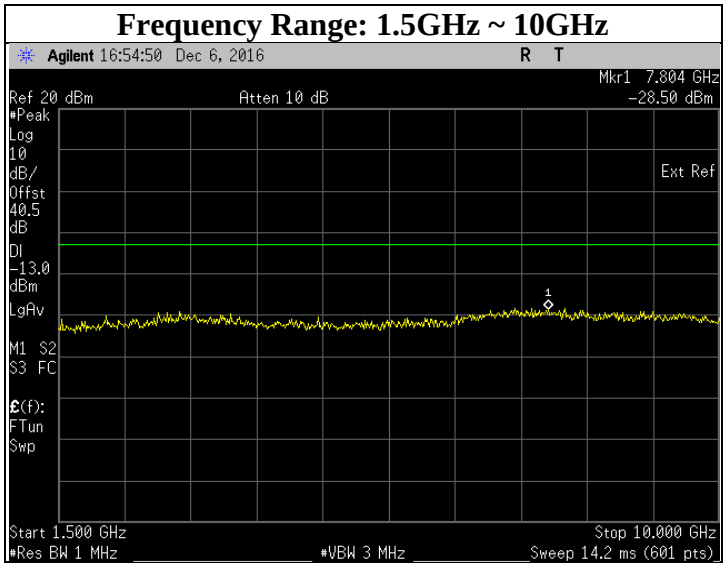
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



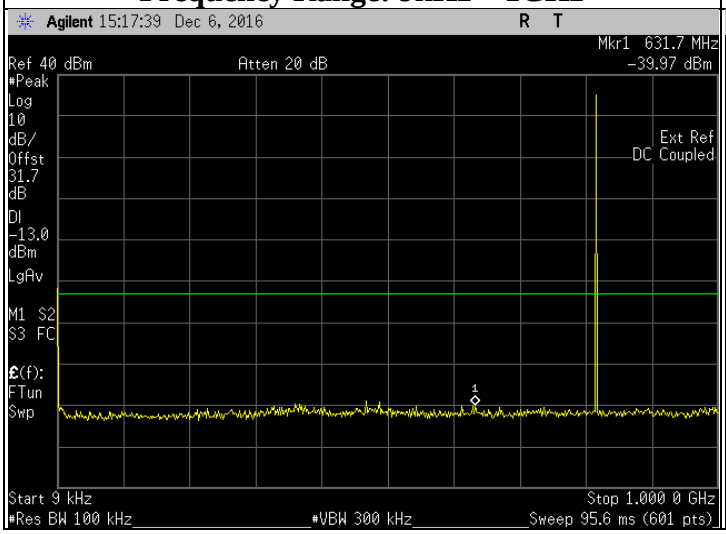
Frequency Range: 1.5GHz ~ 10GHz



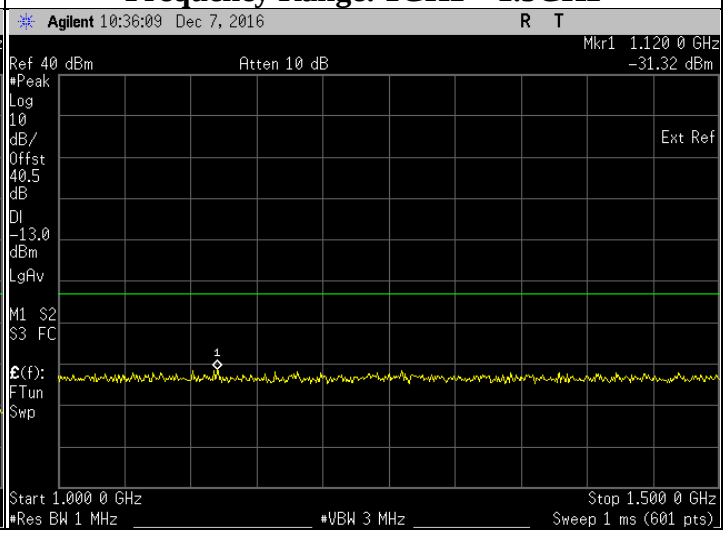
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	536.7	-38.65	-13	Pass
1GHz ~ 1.5GHz	1140.0	-30.58	-13	Pass
1.5GHz ~ 10GHz	7804.0	-28.50	-13	Pass

Analog: 814.9875 MHz, 25.0kHz Channel Spacing, Max Power

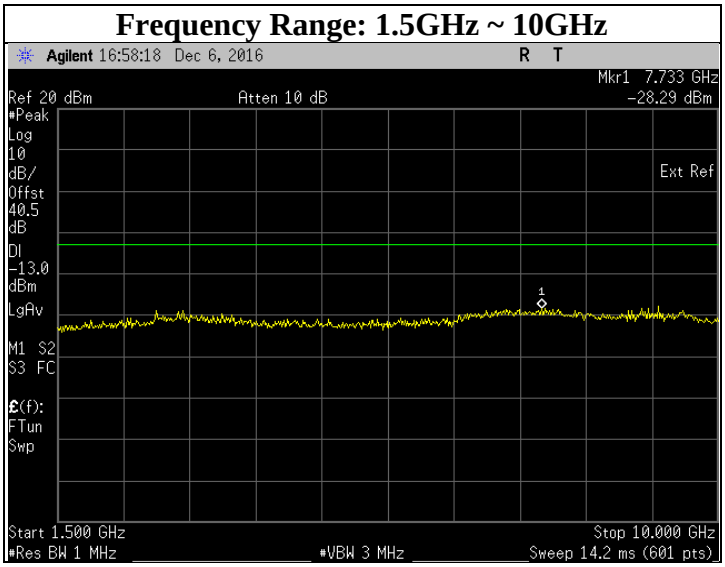
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



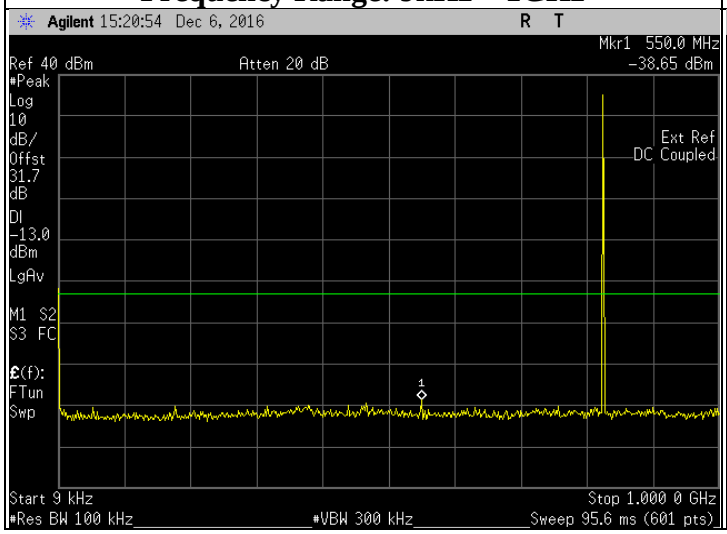
Frequency Range: 1.5GHz ~ 10GHz



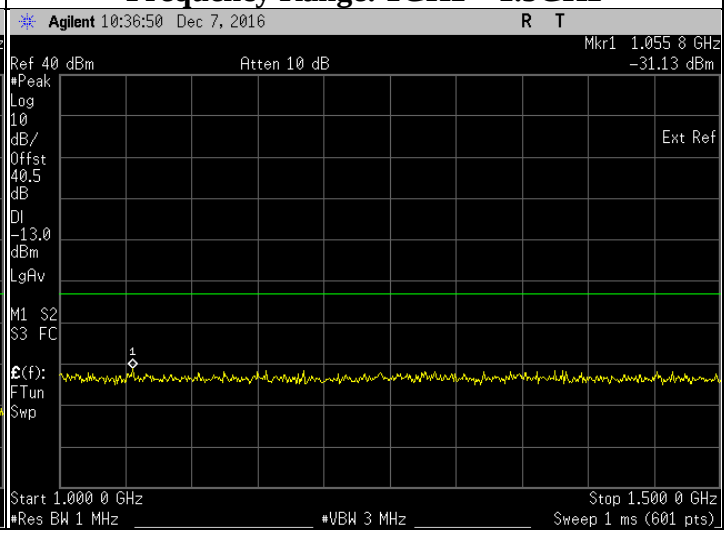
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	631.7	-39.97	-13	Pass
1GHz ~ 1.5GHz	1120.0	-31.32	-13	Pass
1.5GHz ~ 10GHz	7733.0	-28.29	-13	Pass

Analog: 823.9875 MHz, 25.0kHz Channel Spacing, Max Power

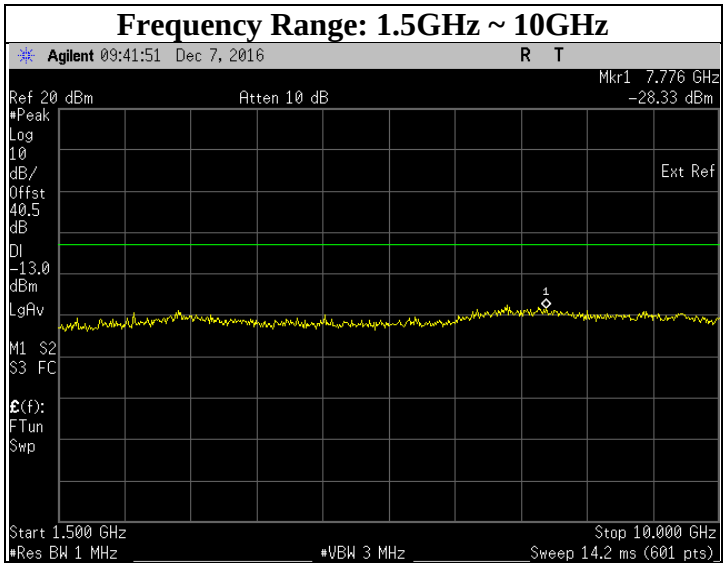
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



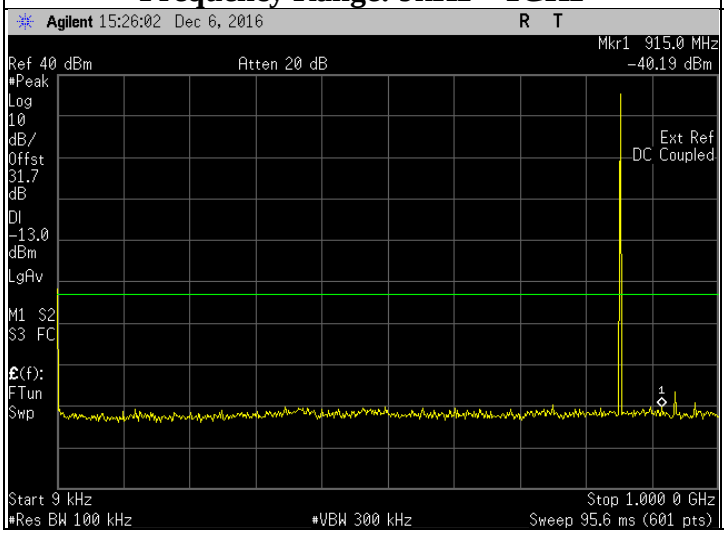
Frequency Range: 1.5GHz ~ 10GHz



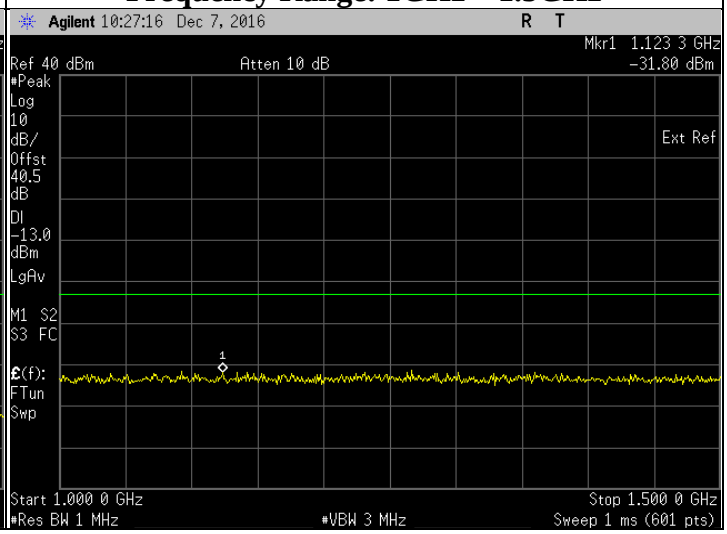
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	550.0	-38.65	-13	Pass
1GHz ~ 1.5GHz	1055.8	-31.13	-13	Pass
1.5GHz ~ 10GHz	7776.0	-28.33	-13	Pass

Analog: 851.0125 MHz, 25.0kHz Channel Spacing, Max Power

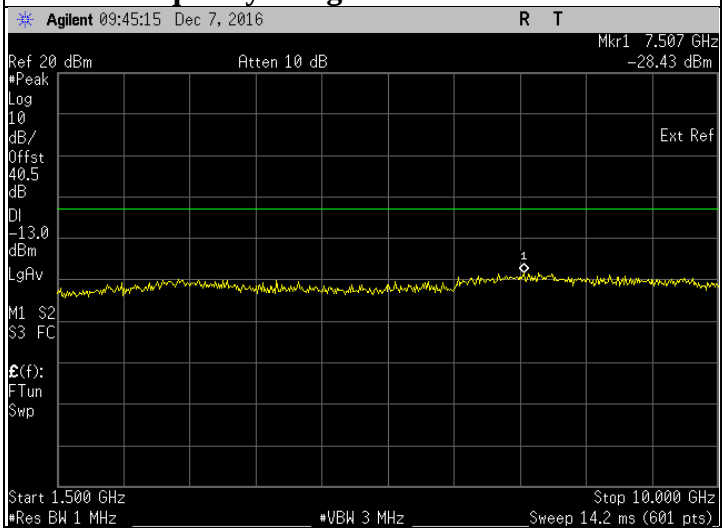
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



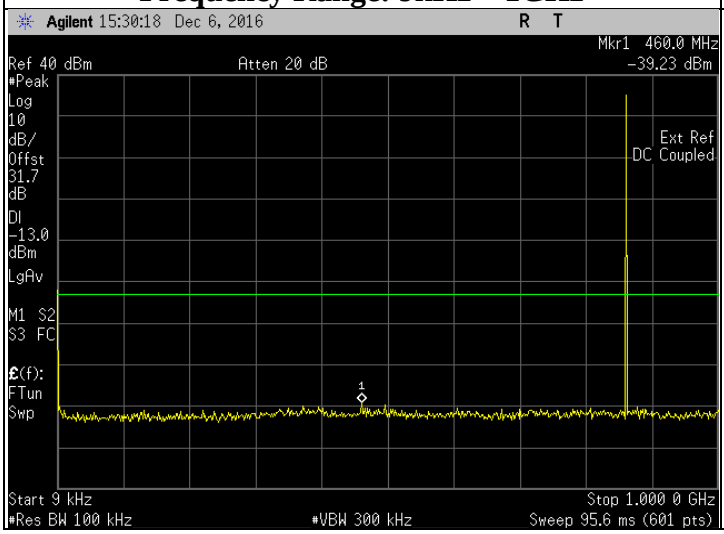
Frequency Range: 1.5GHz ~ 10GHz



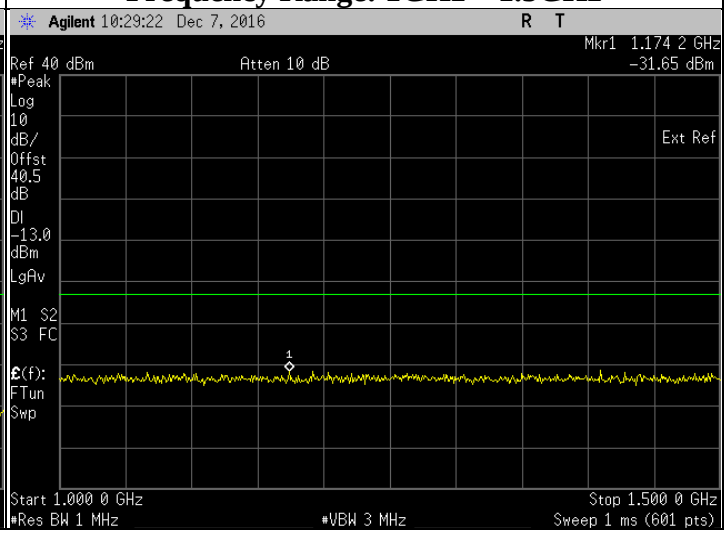
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	915.0	-40.19	-13	Pass
1GHz ~ 1.5GHz	1123.3	31.80	-13	Pass
1.5GHz ~ 10GHz	7507.0	-28.43	-13	Pass

Analog: 860.0125 MHz, 25.0kHz Channel Spacing, Max Power

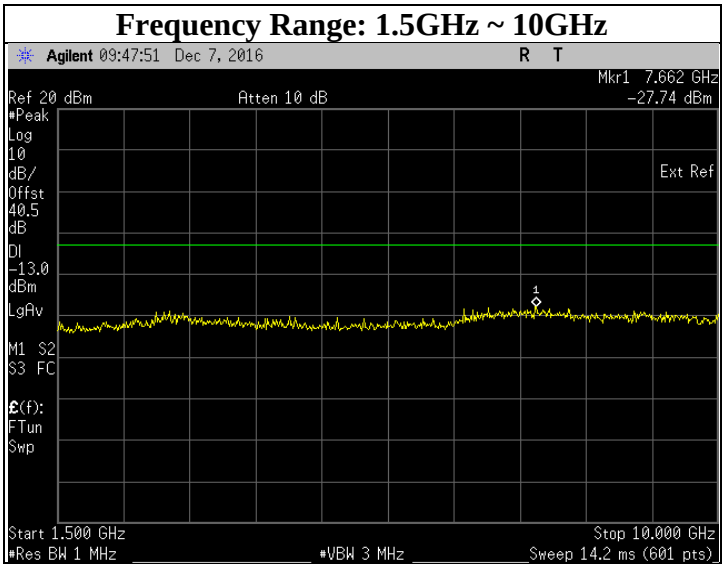
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



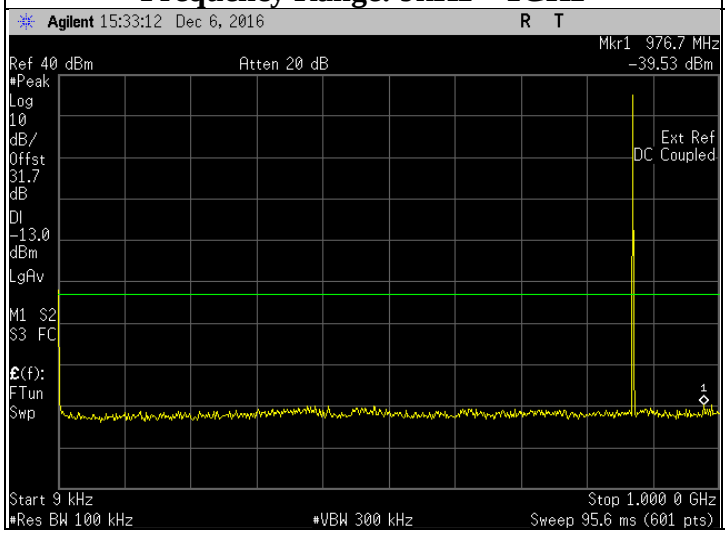
Frequency Range: 1.5GHz ~ 10GHz



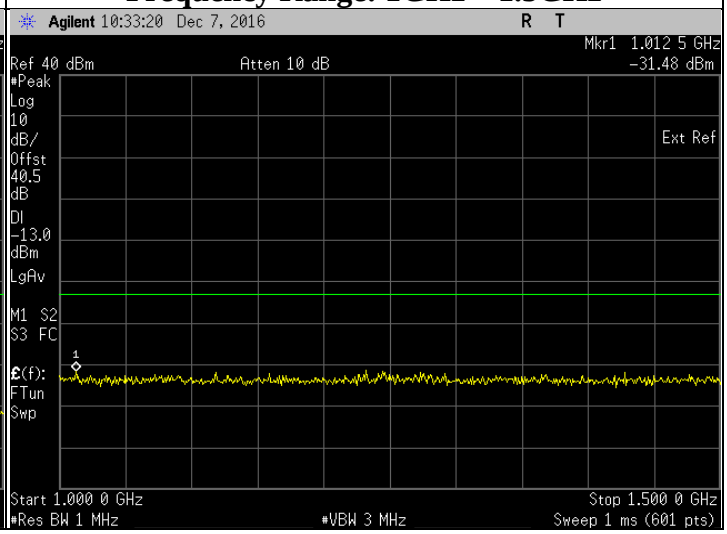
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	460.0	-39.23	-13	Pass
1GHz ~ 1.5GHz	1174.2	-31.65	-13	Pass
1.5GHz ~ 10GHz	7662.0	-27.74	-13	Pass

Analog: 868.8875 MHz, 25.0kHz Channel Spacing, Max Power

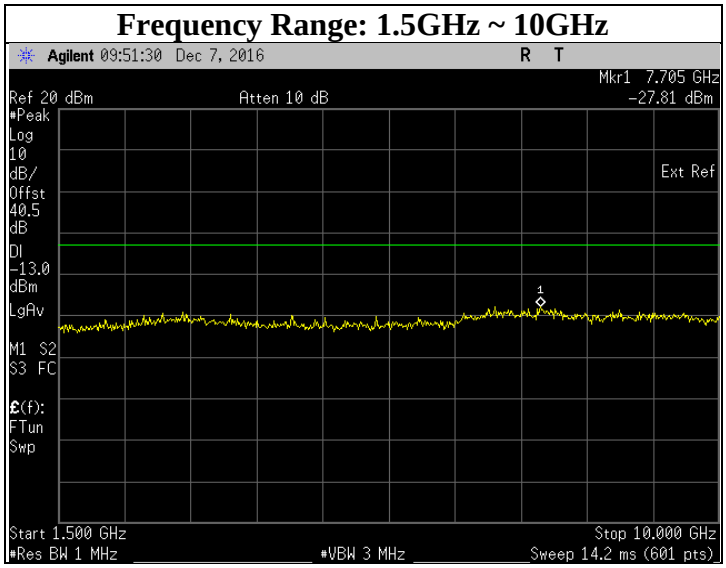
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



Frequency Range: 1.5GHz ~ 10GHz

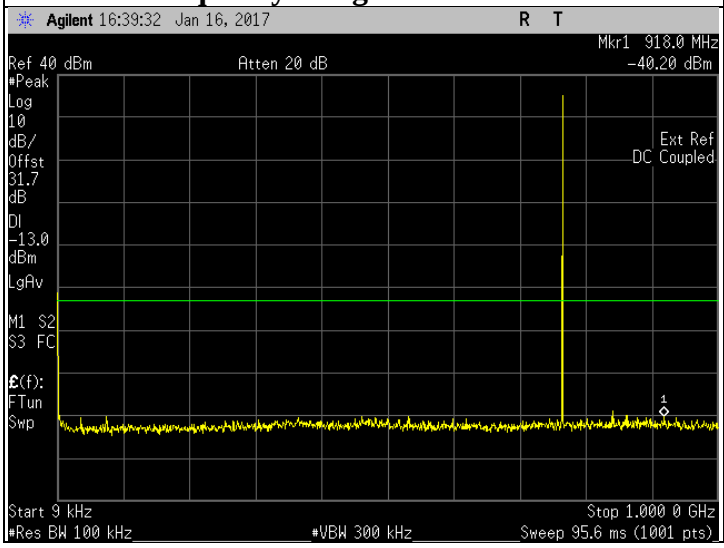


Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	976.7	-39.53	-13	Pass
1GHz ~ 1.5GHz	1012.5	-31.48	-13	Pass
1.5GHz ~ 10GHz	7705.0	-27.81	-13	Pass

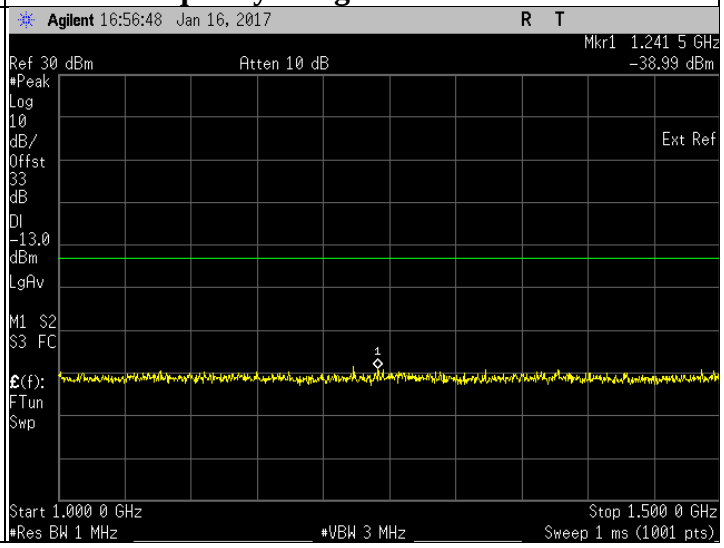
6.10.3. Test Result (Digital)

C4FM: 764.0125 MHz, 12.5kHz Channel Spacing, Max Power

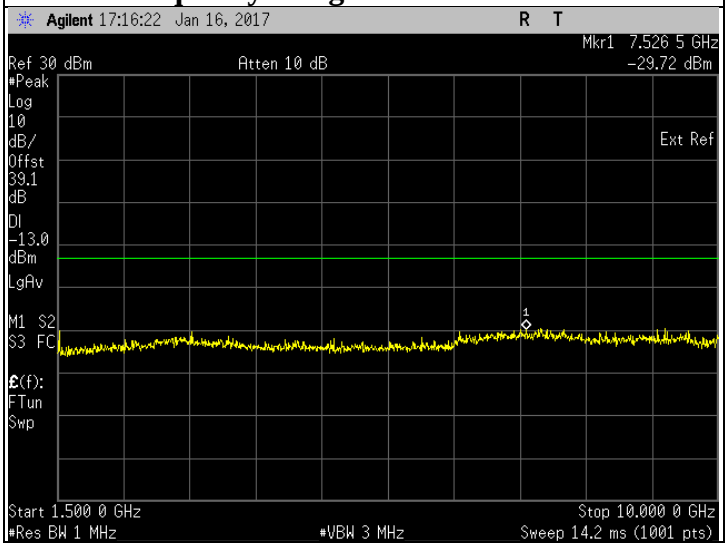
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



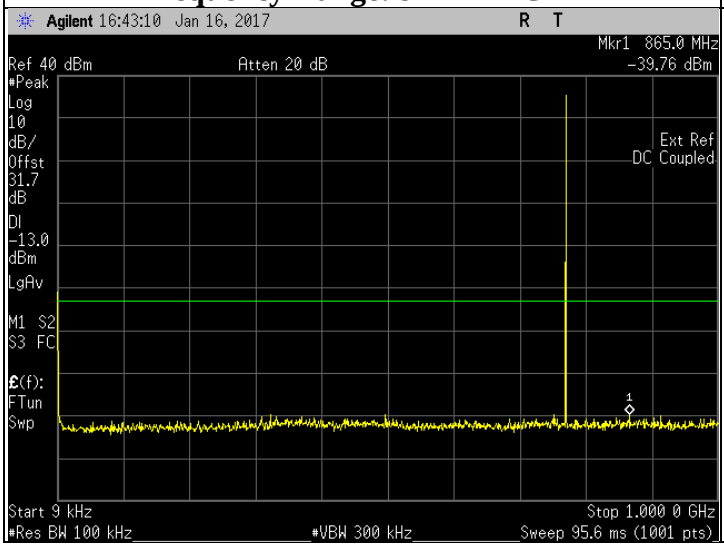
Frequency Range: 1.5GHz ~ 10GHz



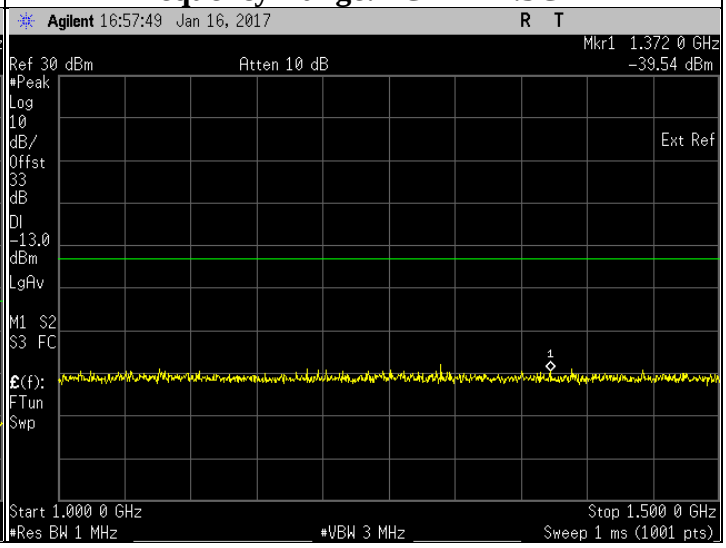
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	918.0	-40.20	-13	Pass
1GHz ~ 1.5GHz	1241.5	-38.99	-13	Pass
1.5GHz ~ 10GHz	7526.5	-29.72	-13	Pass

C4FM: 769.0125 MHz, 12.5kHz Channel Spacing, 2W Power

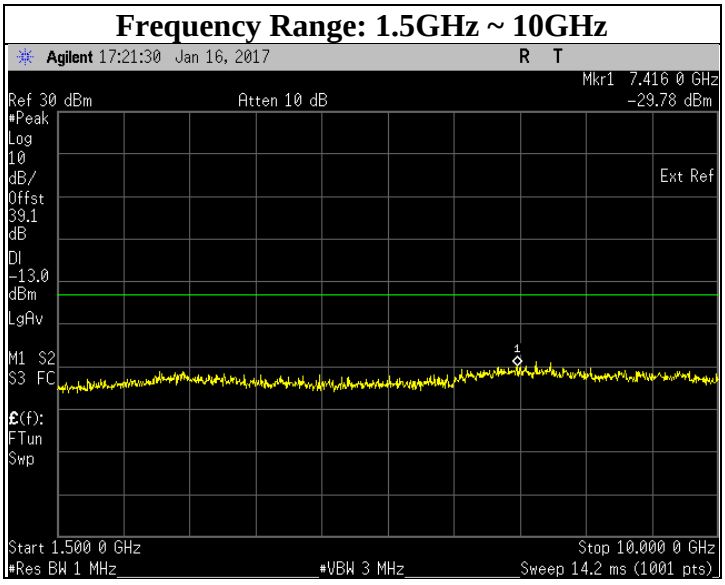
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



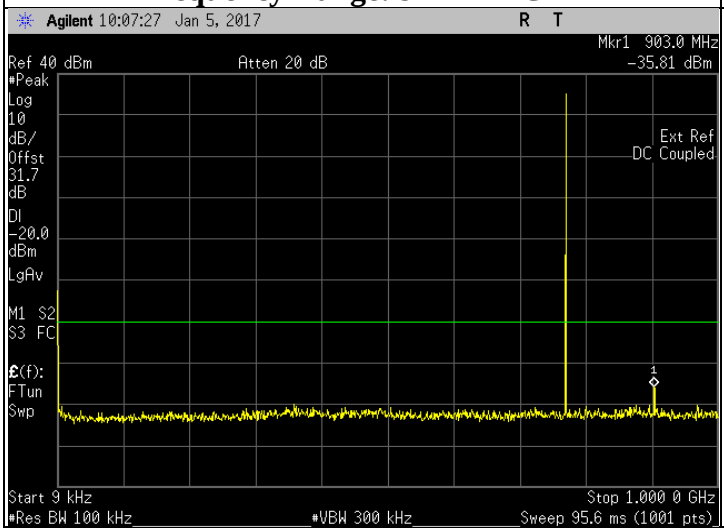
Frequency Range: 1.5GHz ~ 10GHz



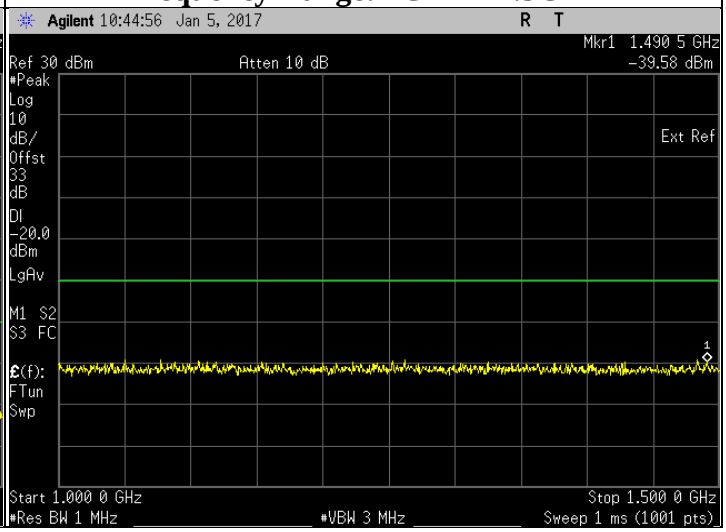
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	865.0	-39.76	-13	Pass
1GHz ~ 1.5GHz	1372.0	-39.54	-13	Pass
1.5GHz ~ 10GHz	7416.0	-29.78	-13	Pass

C4FM: 769.0875 MHz, 12.5kHz Channel Spacing, Max Power

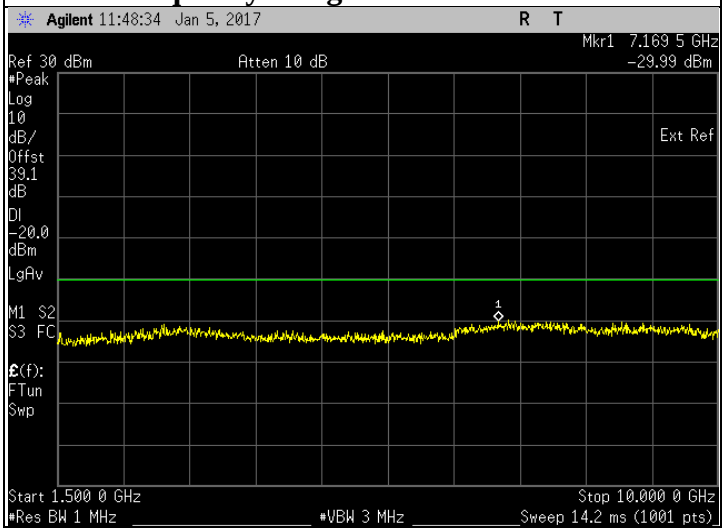
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



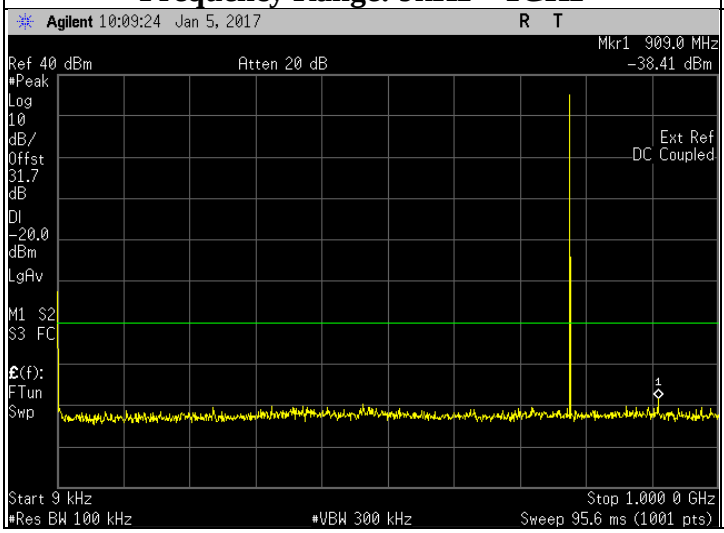
Frequency Range: 1.5GHz ~ 10GHz



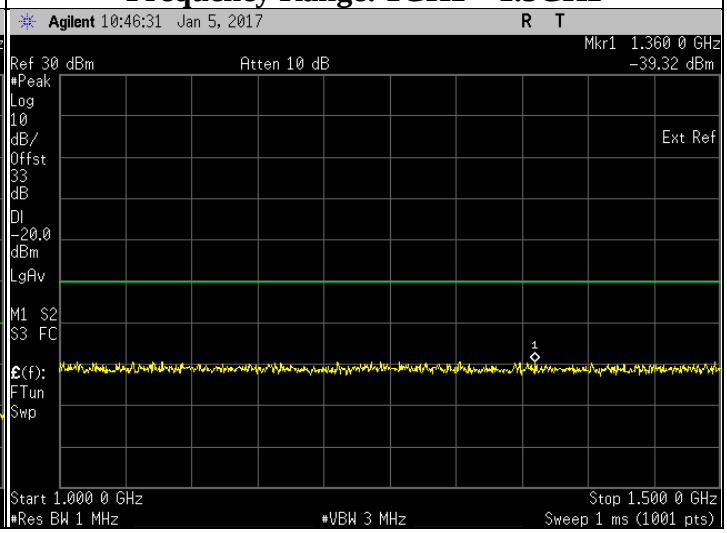
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	903.0	-35.81	-20	Pass
1GHz ~ 1.5GHz	1490.5	-39.58	-20	Pass
1.5GHz ~ 10GHz	7169.5	-29.99	-20	Pass

C4FM: 774.8875 MHz, 12.5kHz Channel Spacing, Max Power

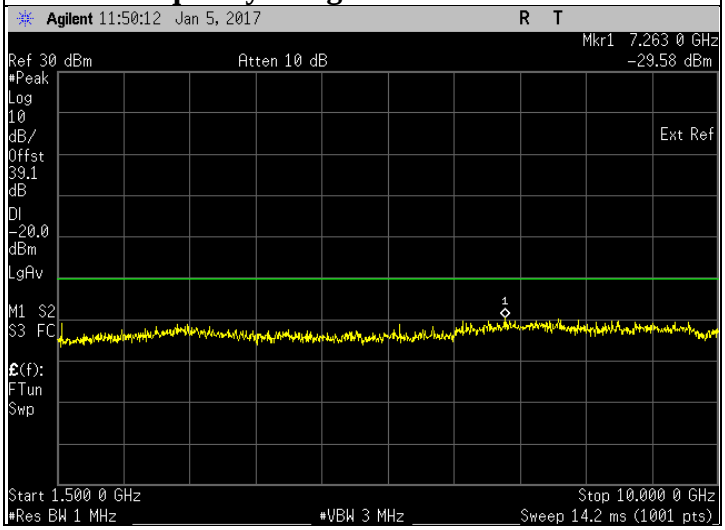
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



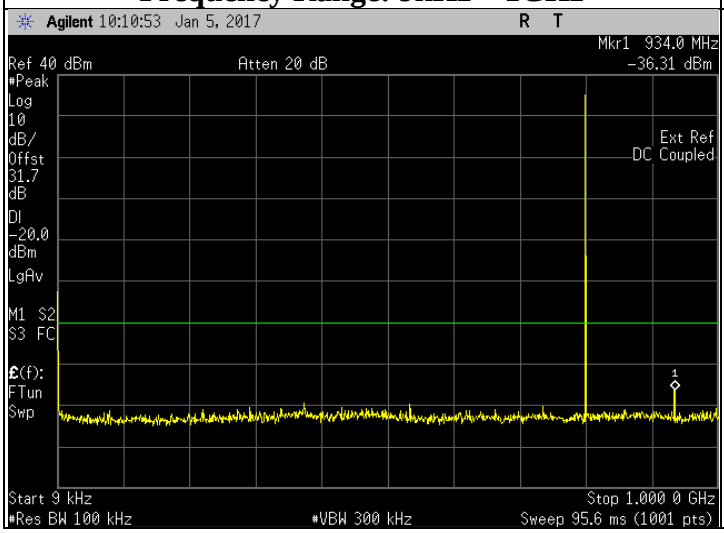
Frequency Range: 1.5GHz ~ 10GHz



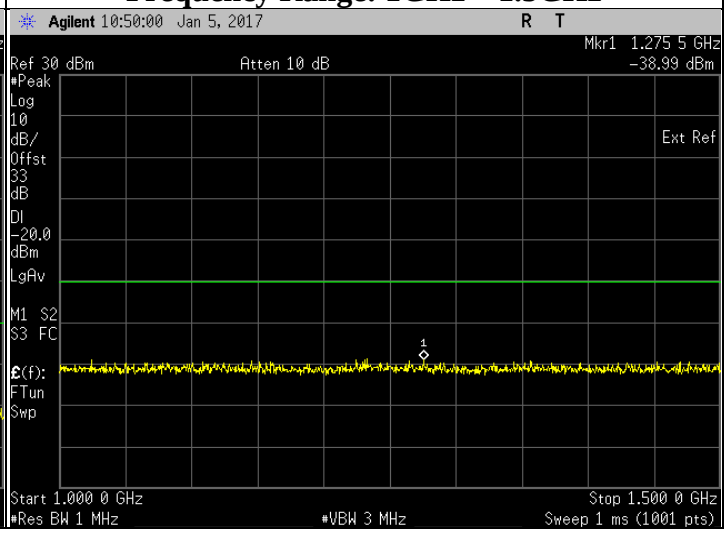
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	909.0	-38.41	-20	Pass
1GHz ~ 1.5GHz	1360.0	-39.32	-20	Pass
1.5GHz ~ 10GHz	7263.0	-29.58	-20	Pass

C4FM: 799.0875 MHz, 12.5kHz Channel Spacing, Max Power

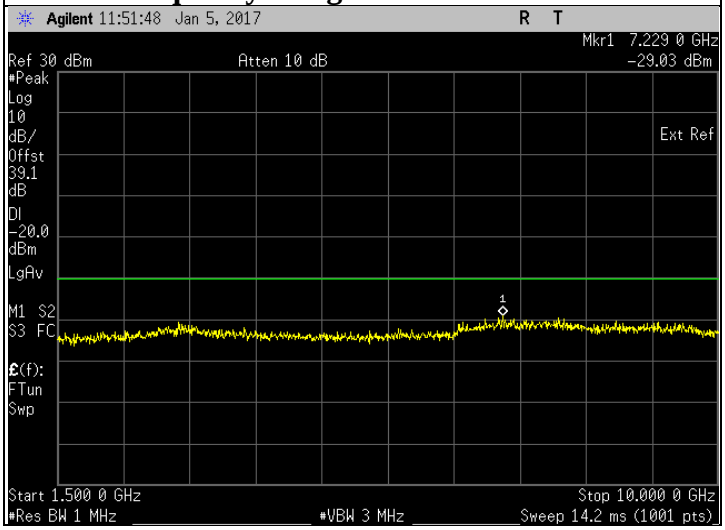
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



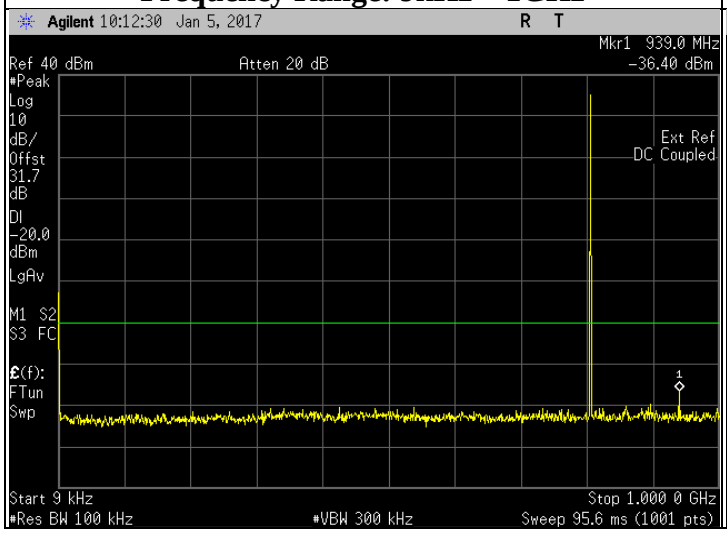
Frequency Range: 1.5GHz ~ 10GHz



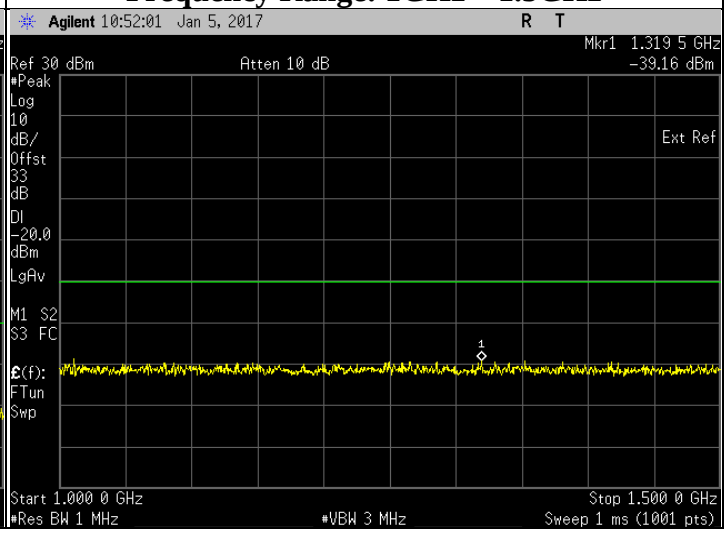
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	934.0	-36.31	-20	Pass
1GHz ~ 1.5GHz	1275.5	-38.99	-20	Pass
1.5GHz ~ 10GHz	7229.0	-29.03	-20	Pass

C4FM: 804.9125 MHz, 12.5kHz Channel Spacing, Max Power

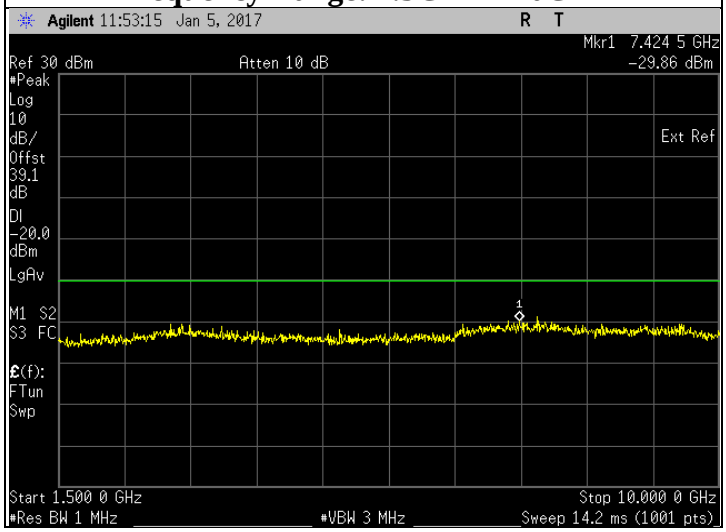
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



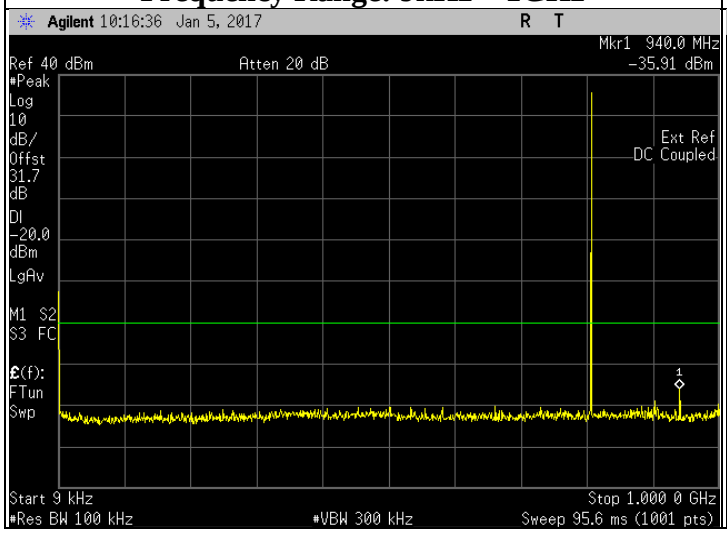
Frequency Range: 1.5GHz ~ 10GHz



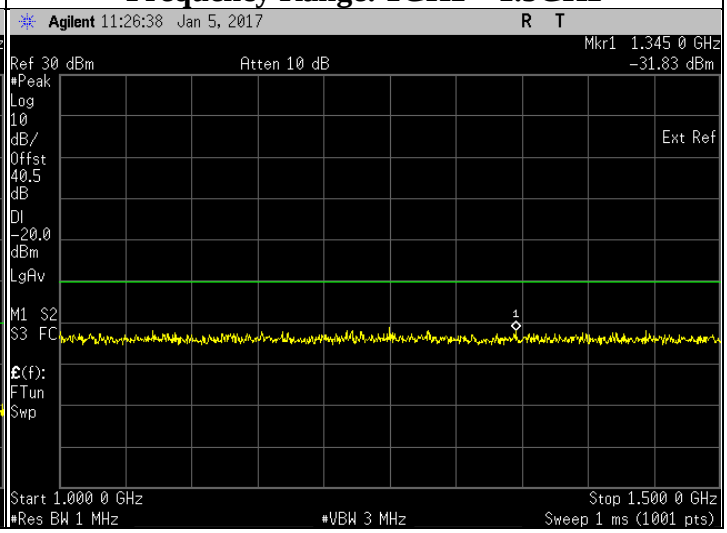
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	939.0	-36.40	-20	Pass
1GHz ~ 1.5GHz	1319.5	-39.16	-20	Pass
1.5GHz ~ 10GHz	7424.5	-29.86	-20	Pass

C4FM: 806.0125 MHz, 12.5kHz Channel Spacing, Max Power

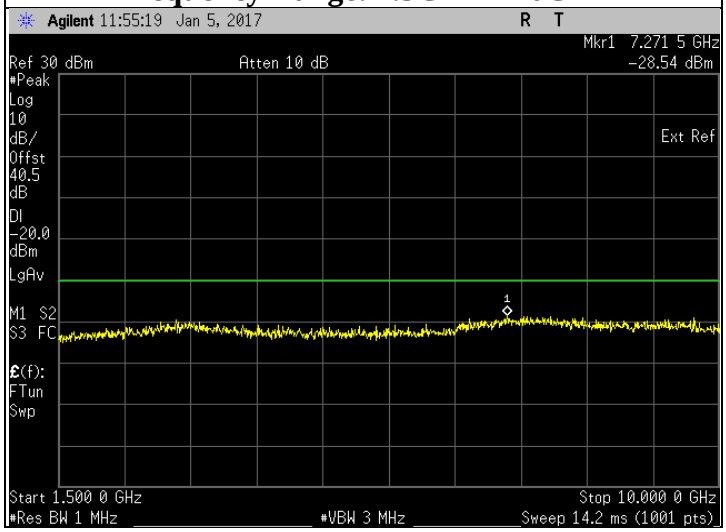
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



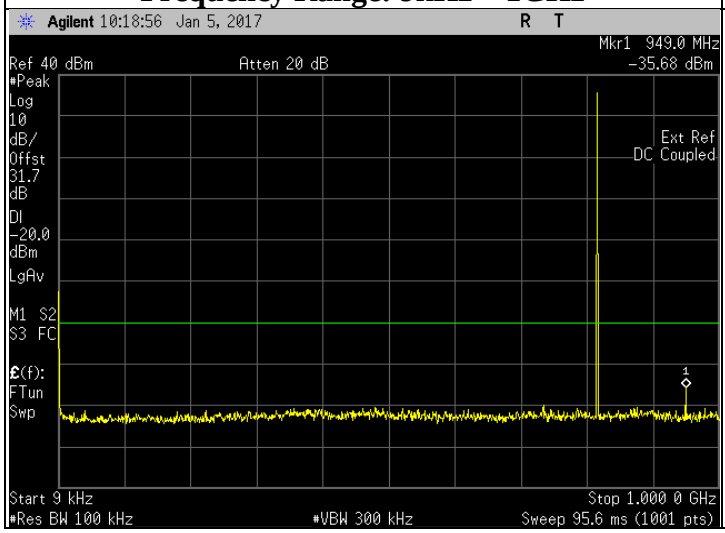
Frequency Range: 1.5GHz ~ 10GHz



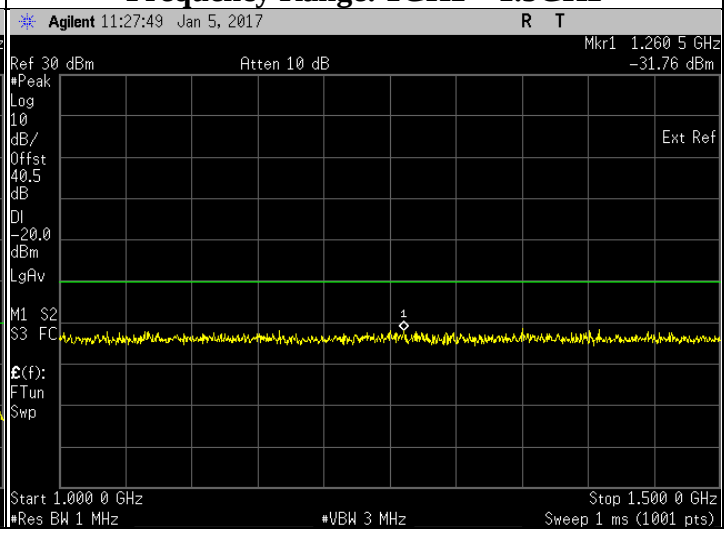
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	940.0	-35.91	-20	Pass
1GHz ~ 1.5GHz	1345.0	-31.83	-20	Pass
1.5GHz ~ 10GHz	7271.5	-28.54	-20	Pass

C4FM: 814.9875 MHz, 12.5kHz Channel Spacing, Max Power

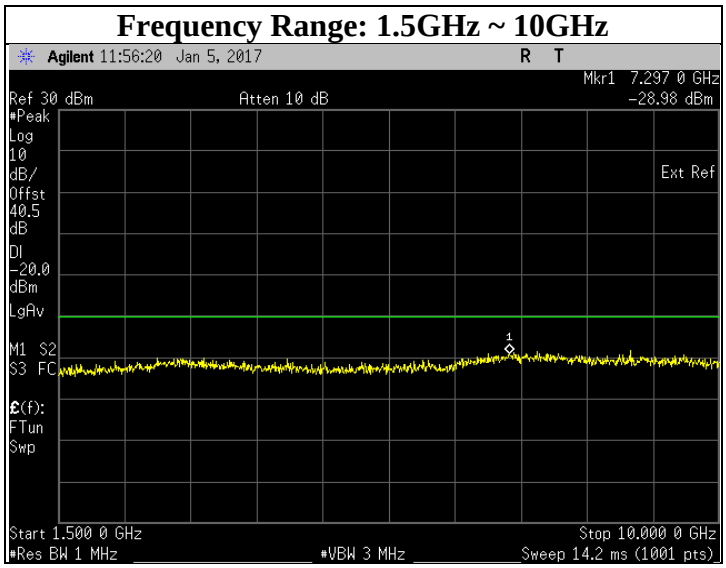
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



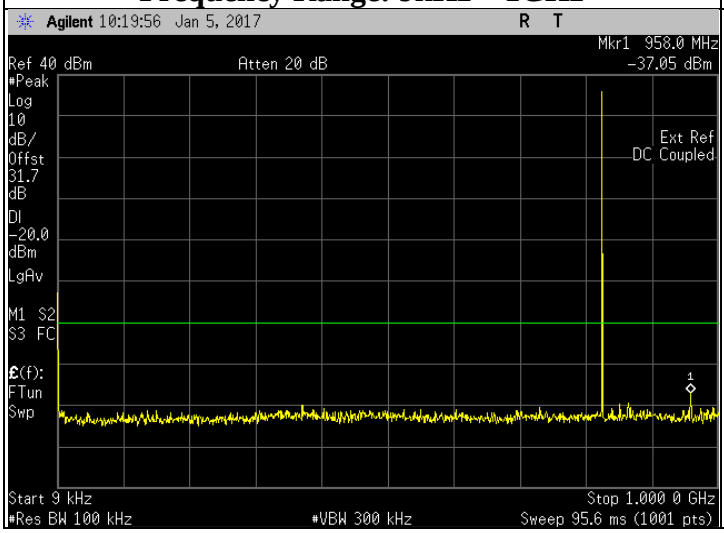
Frequency Range: 1.5GHz ~ 10GHz



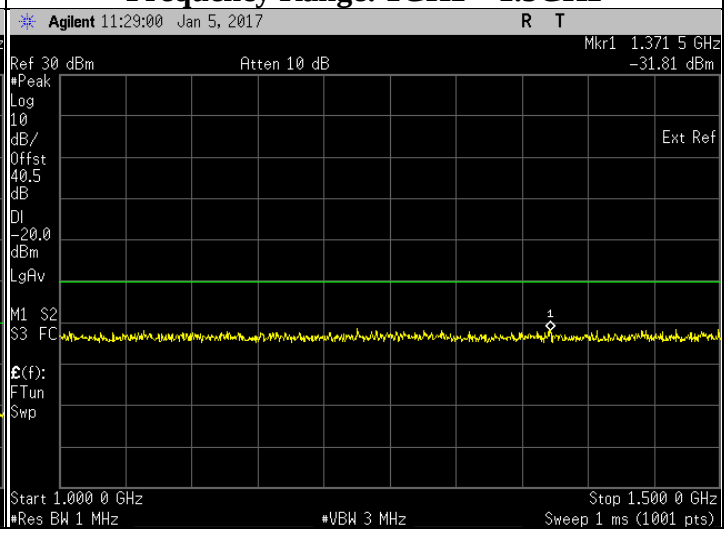
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	949.0	-35.68	-20	Pass
1GHz ~ 1.5GHz	1260.5	-31.76	-20	Pass
1.5GHz ~ 10GHz	7297.0	-28.98	-20	Pass

C4FM: 823.9875 MHz, 12.5kHz Channel Spacing, Max Power

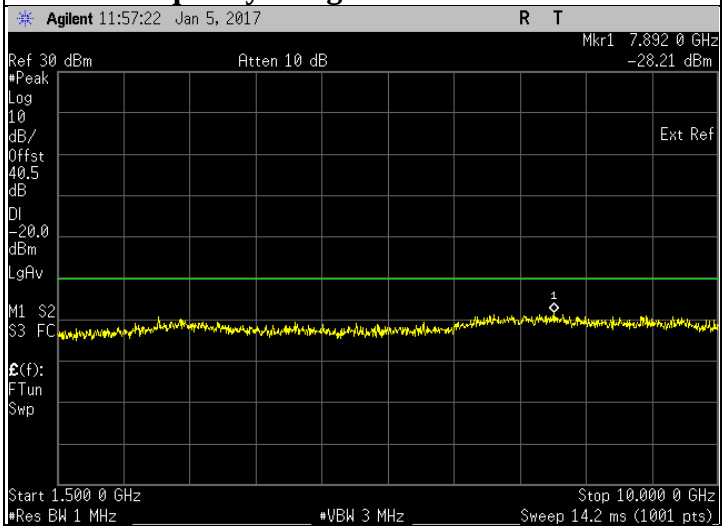
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



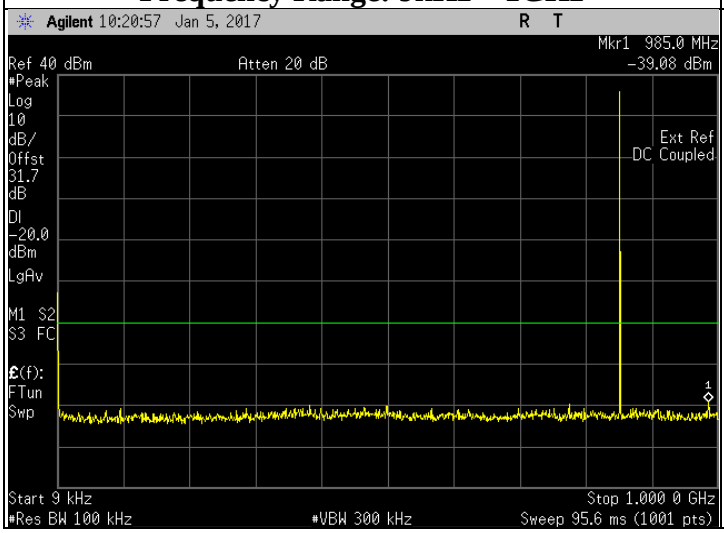
Frequency Range: 1.5GHz ~ 10GHz



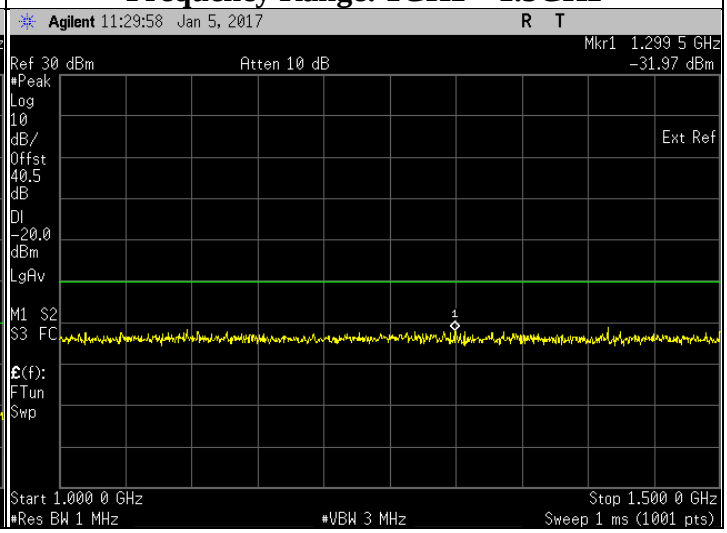
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	958.0	-37.05	-20	Pass
1GHz ~ 1.5GHz	1371.5	-31.81	-20	Pass
1.5GHz ~ 10GHz	7892.0	-28.21	-20	Pass

C4FM: 851.0125 MHz, 12.5kHz Channel Spacing, Max Power

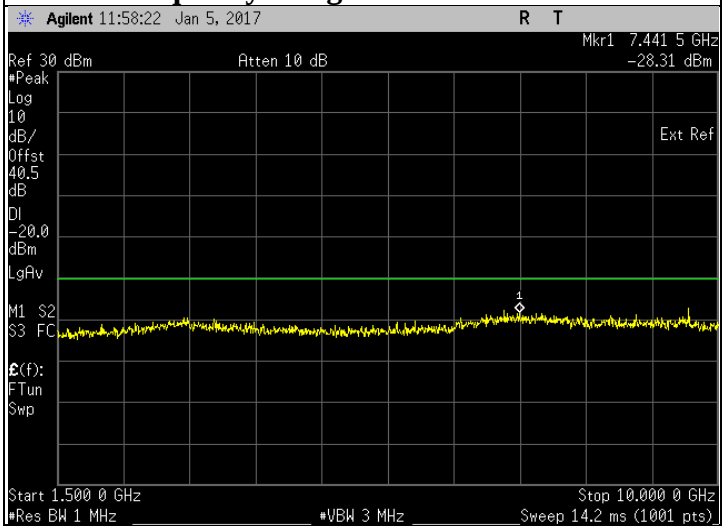
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



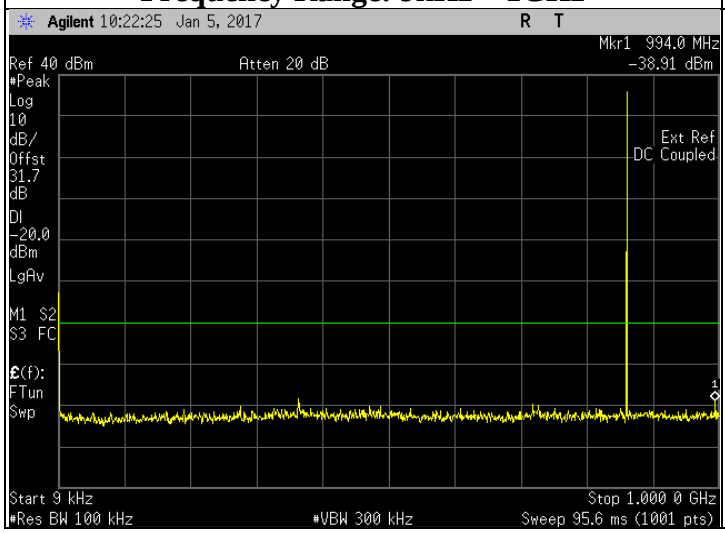
Frequency Range: 1.5GHz ~ 10GHz



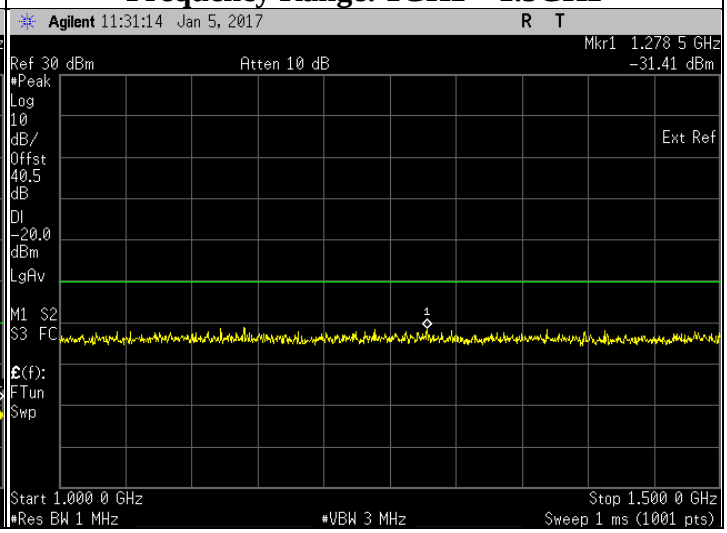
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	985.0	-39.08	-20	Pass
1GHz ~ 1.5GHz	1299.5	-31.97	-20	Pass
1.5GHz ~ 10GHz	7441.5	-28.31	-20	Pass

C4FM: 860.0125 MHz, 12.5kHz Channel Spacing, Max Power

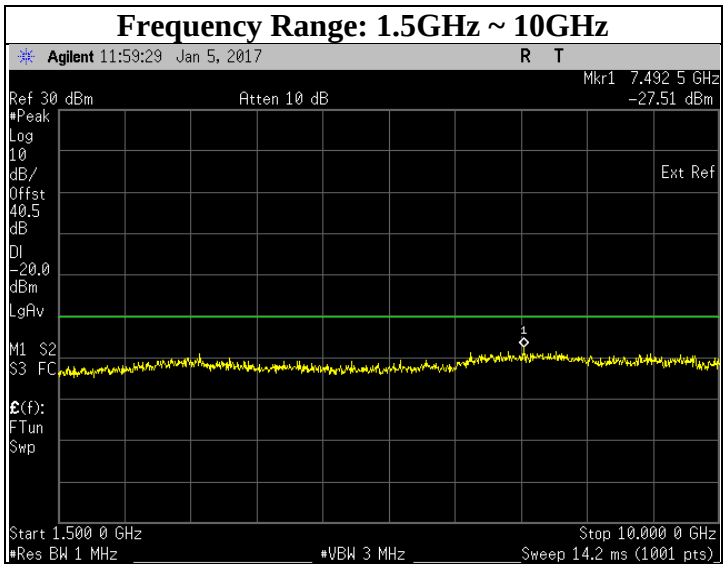
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



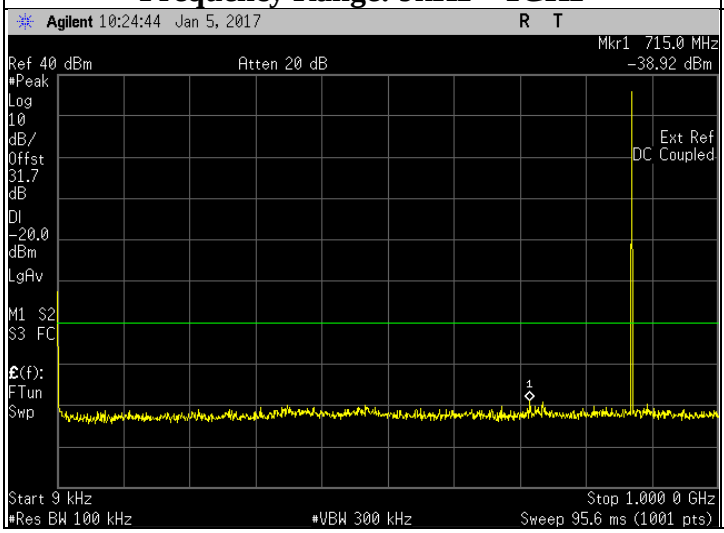
Frequency Range: 1.5GHz ~ 10GHz



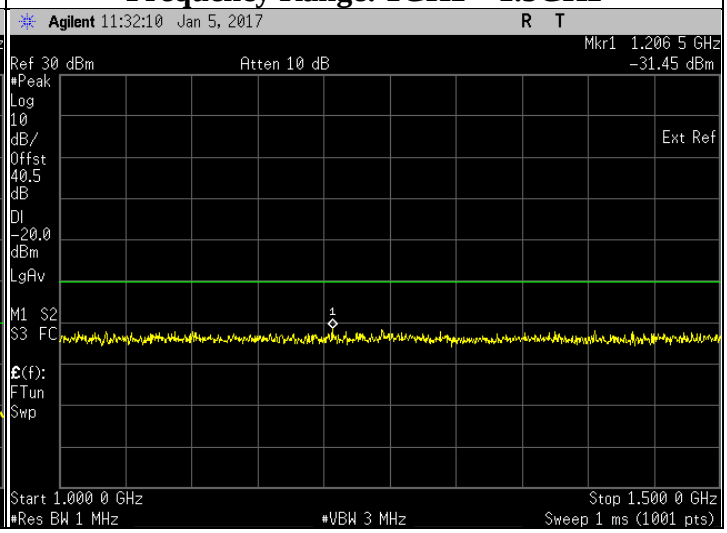
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	994.0	-38.91	-20	Pass
1GHz ~ 1.5GHz	1278.5	-31.41	-20	Pass
1.5GHz ~ 10GHz	7492.5	-27.51	-20	Pass

C4FM: 868.8875 MHz, 12.5kHz Channel Spacing, Max Power

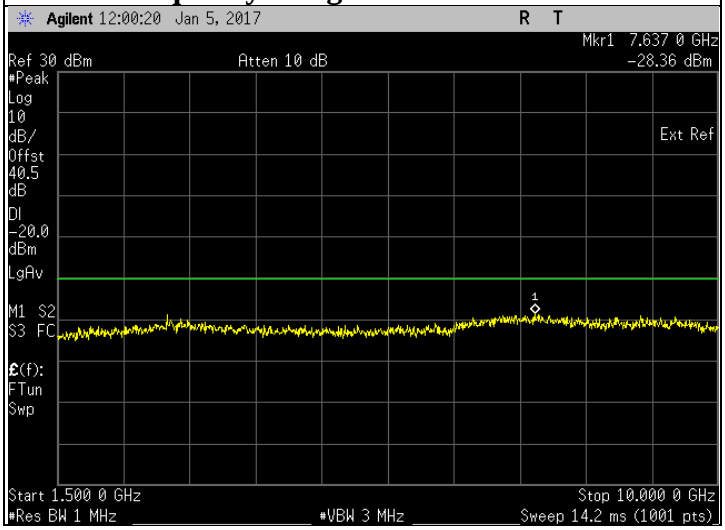
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



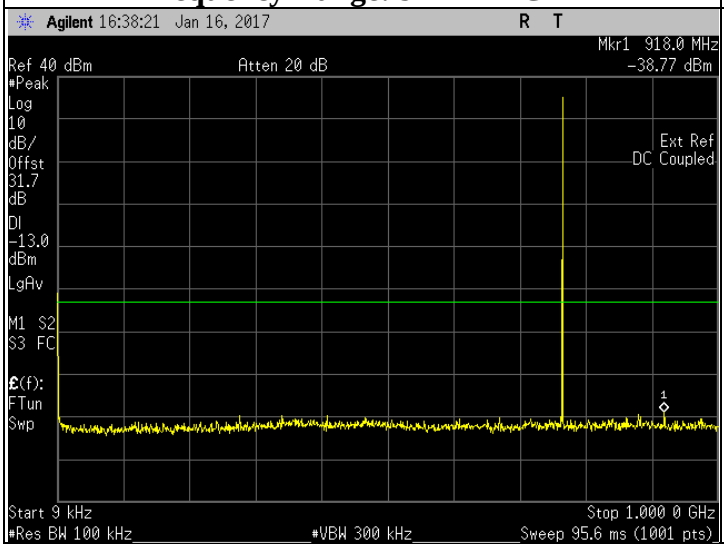
Frequency Range: 1.5GHz ~ 10GHz



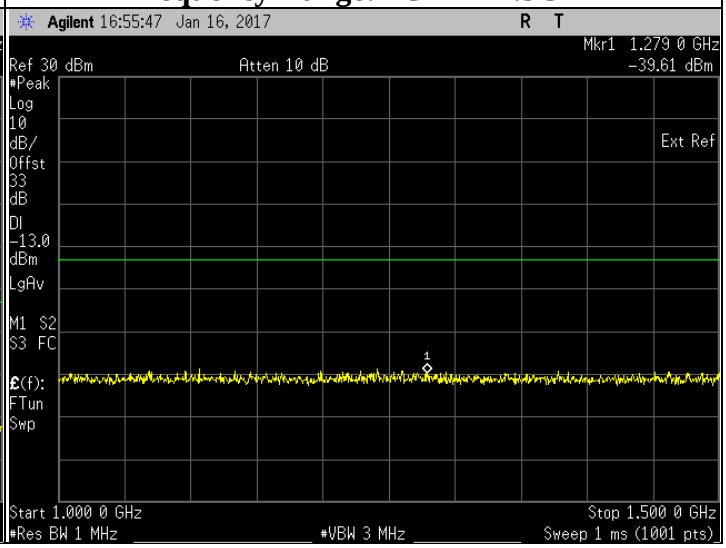
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	715.0	-38.92	-20	Pass
1GHz ~ 1.5GHz	1206.5	-31.45	-20	Pass
1.5GHz ~ 10GHz	7637.0	-28.36	-20	Pass

Phase II: 764.0125 MHz, 12.5kHz Channel Spacing, Max Power

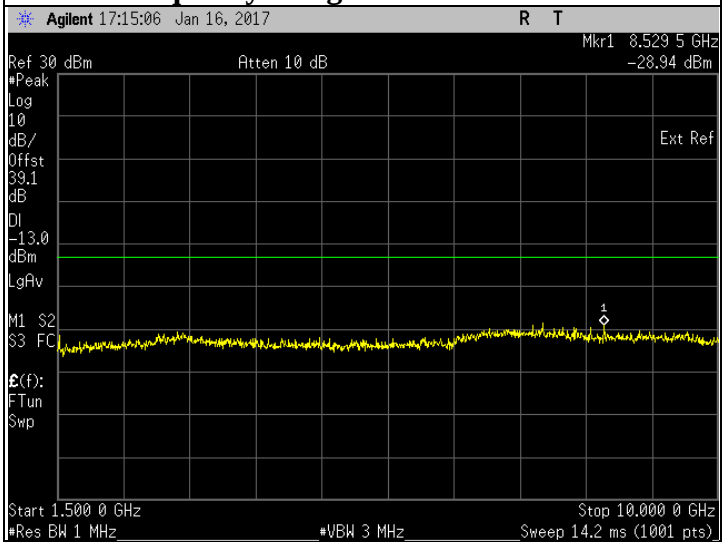
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz

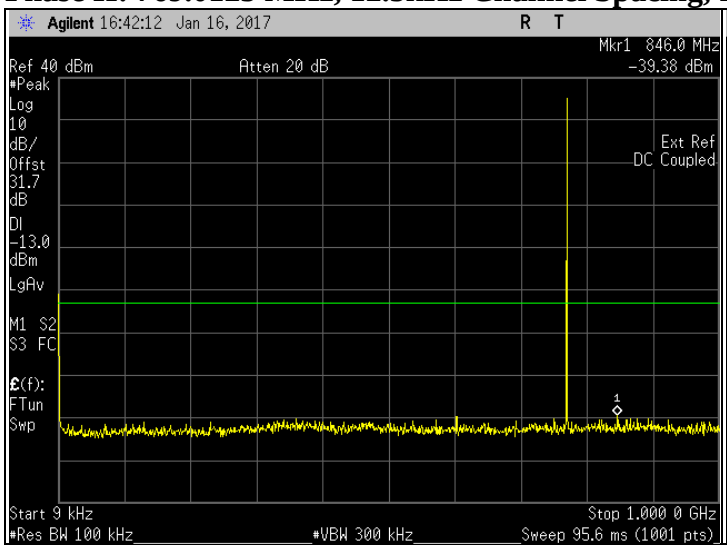


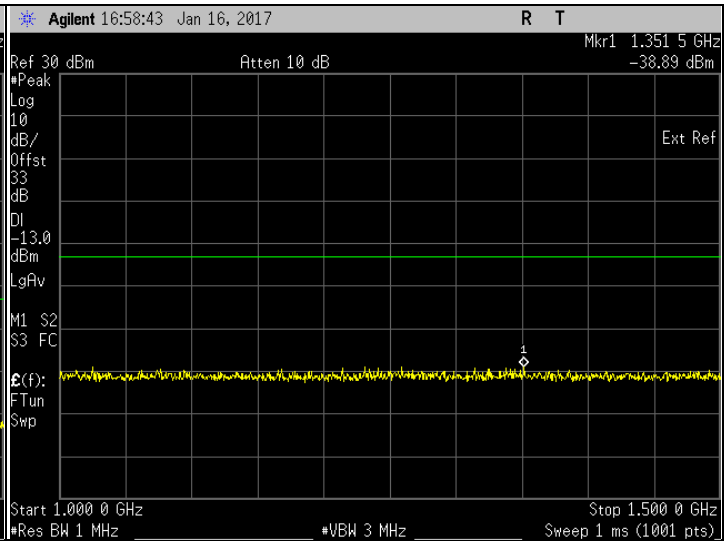
Frequency Range: 1.5GHz ~ 10GHz



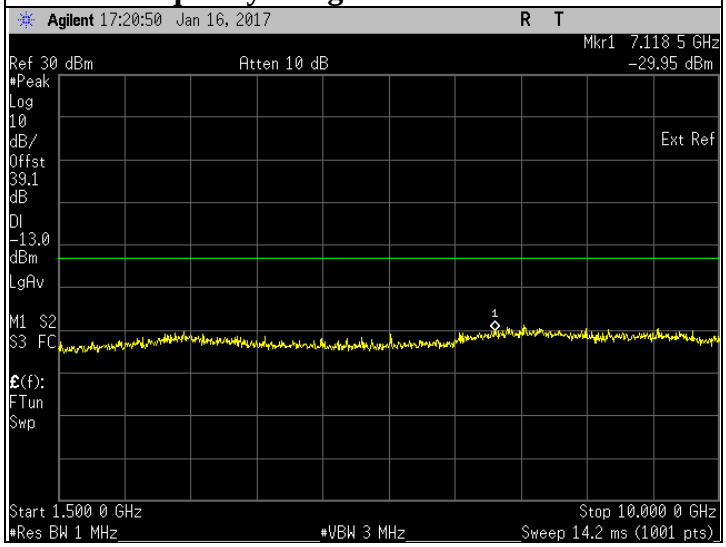
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	918.0	-38.77	-13	Pass
1GHz ~ 1.5GHz	1279.0	-39.61	-13	Pass
1.5GHz ~ 10GHz	8529.5	-28.94	-13	Pass

Phase II: 769.0125 MHz, 12.5kHz Channel Spacing, 2W Power





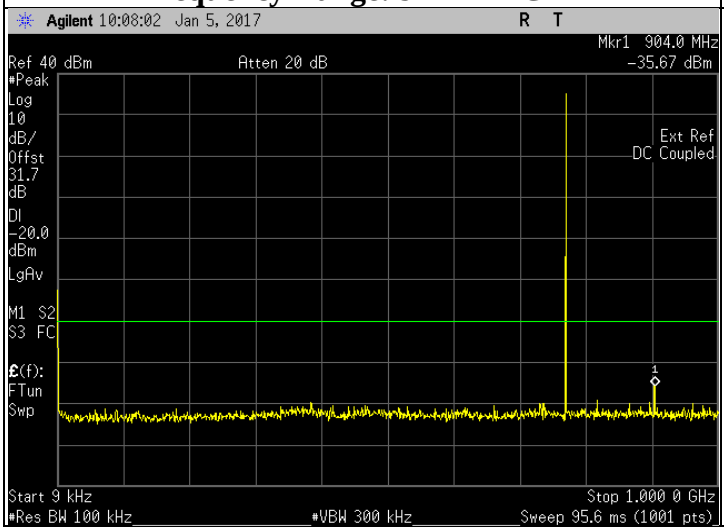
Frequency Range: 1.5GHz ~ 10GHz



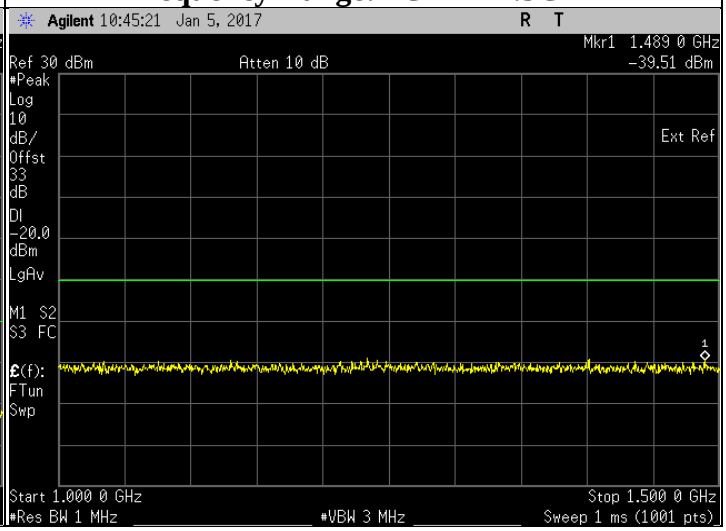
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	846.0	-39.38	-13	Pass
1GHz ~ 1.5GHz	1351.5	-38.89	-13	Pass
1.5GHz ~ 10GHz	7118.5	-29.95	-13	Pass

Phase II: 769.0875 MHz, 12.5kHz Channel Spacing, Max Power

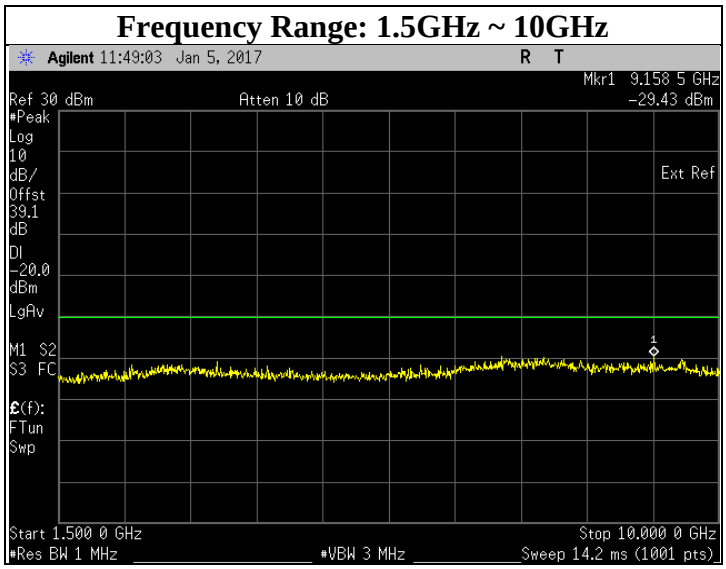
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



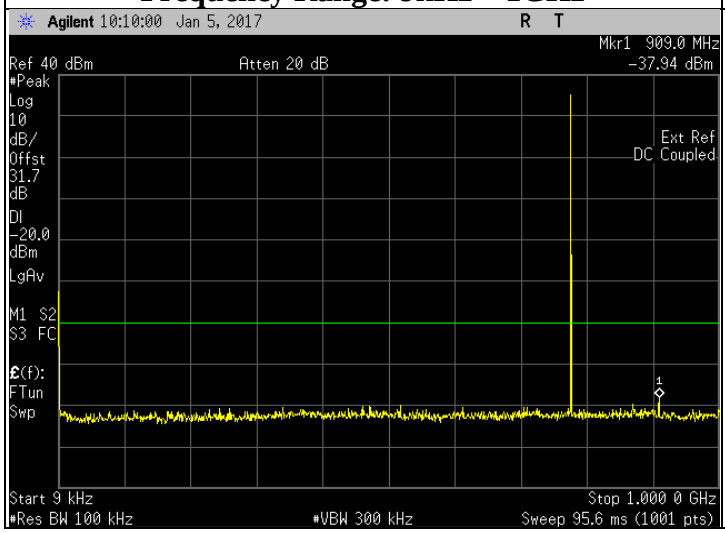
Frequency Range: 1.5GHz ~ 10GHz



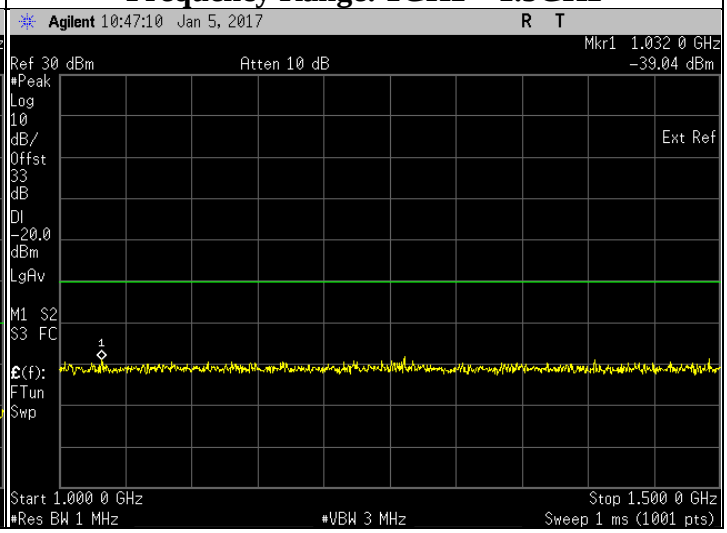
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	904.0	-35.67	-20	Pass
1GHz ~ 1.5GHz	1489.0	-39.51	-20	Pass
1.5GHz ~ 10GHz	9158.5	-29.43	-20	Pass

Phase II: 774.8875 MHz, 12.5kHz Channel Spacing, Max Power

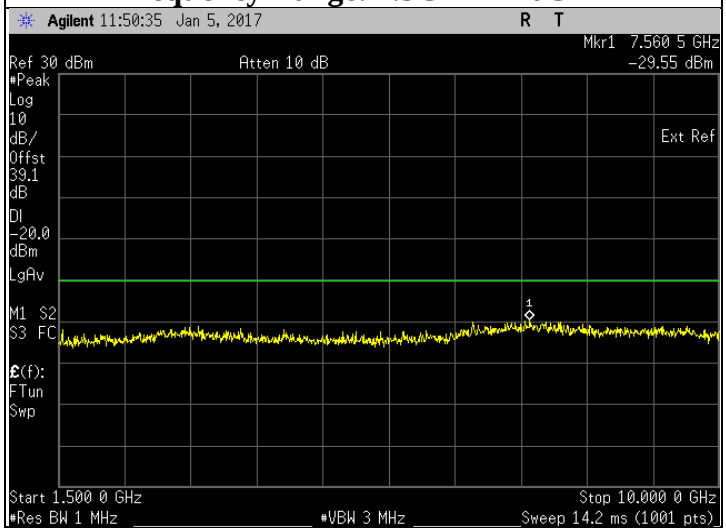
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



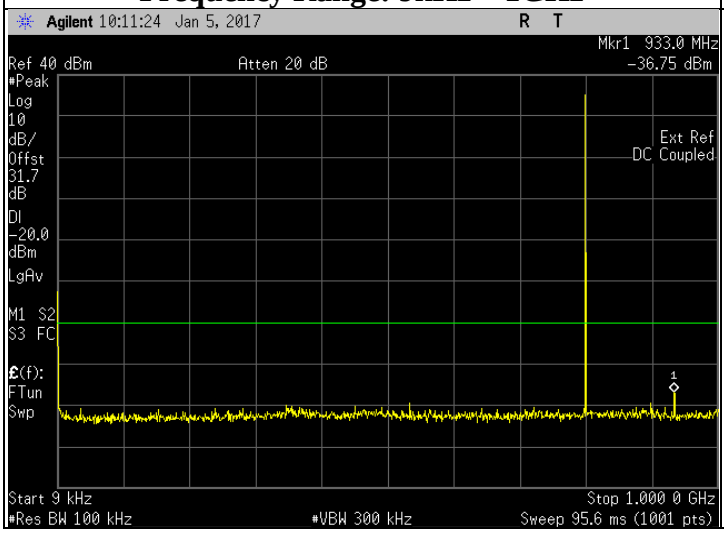
Frequency Range: 1.5GHz ~ 10GHz



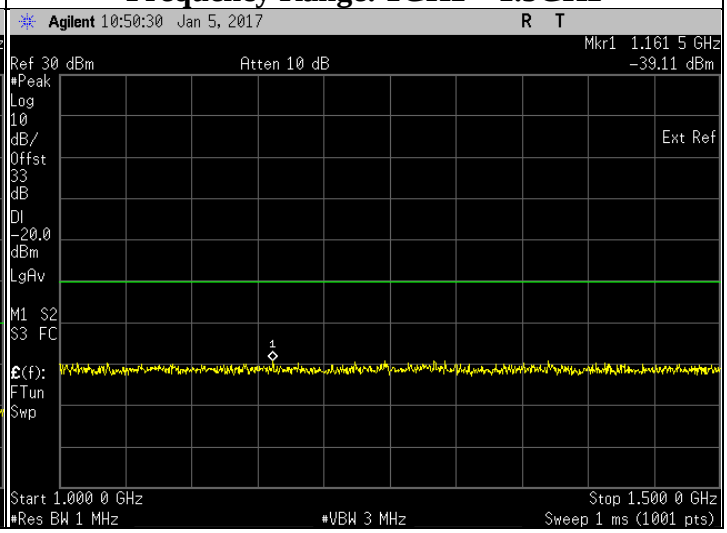
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	909.0	-37.94	-20	Pass
1GHz ~ 1.5GHz	1032.0	-39.04	-20	Pass
1.5GHz ~ 10GHz	7560.5	-29.55	-20	Pass

Phase II: 799.0875 MHz, 12.5kHz Channel Spacing, Max Power

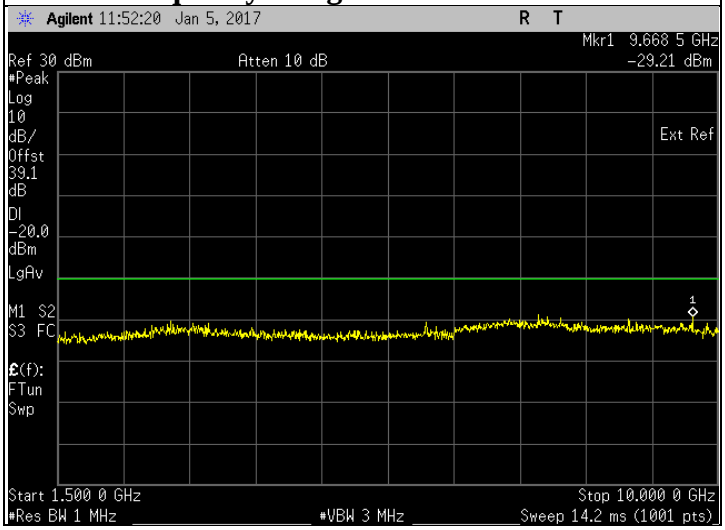
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



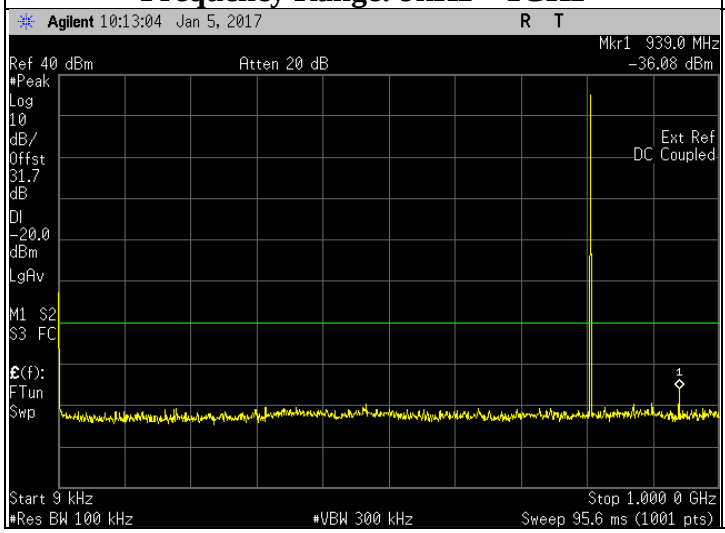
Frequency Range: 1.5GHz ~ 10GHz



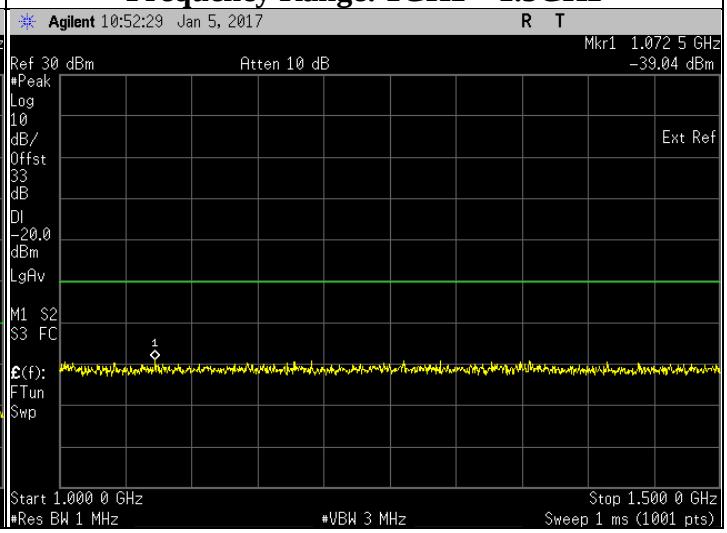
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	933.0	-36.75	-20	Pass
1GHz ~ 1.5GHz	1161.5	-39.11	-20	Pass
1.5GHz ~ 10GHz	9668.5	-29.21	-20	Pass

Phase II: 804.9125 MHz, 12.5kHz Channel Spacing, Max Power

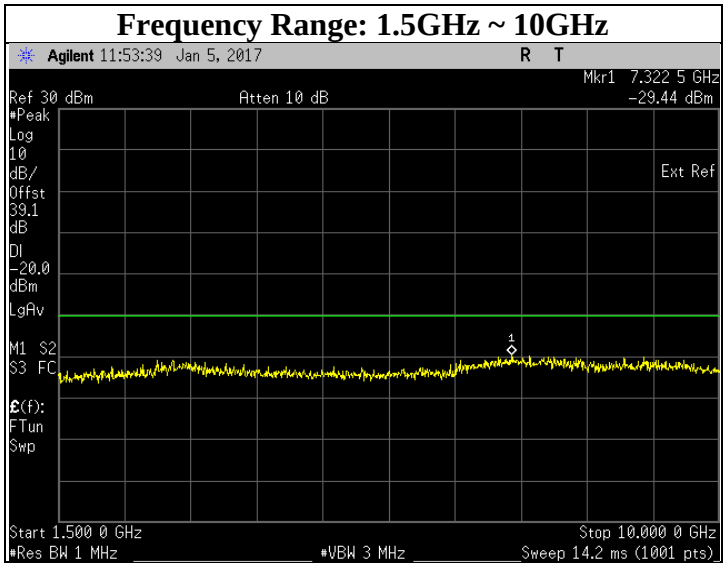
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



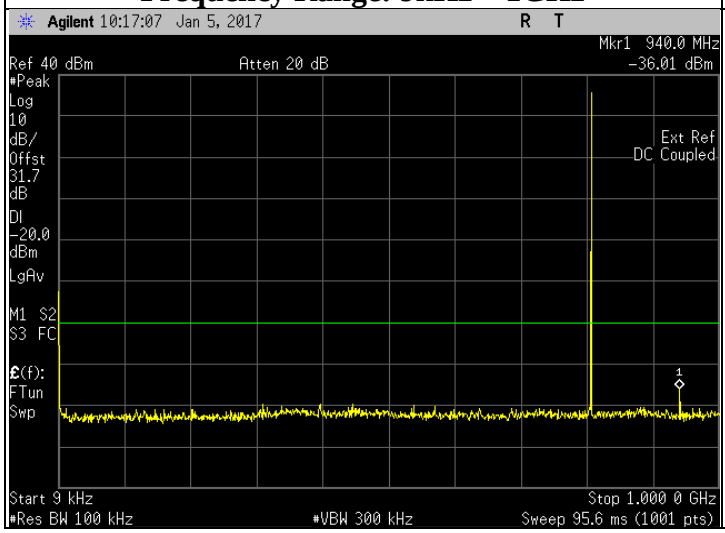
Frequency Range: 1.5GHz ~ 10GHz



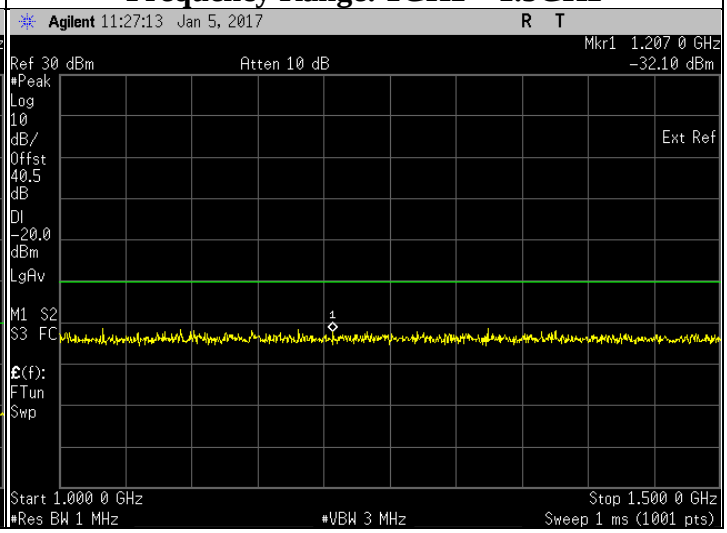
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	939.0	-36.08	-20	Pass
1GHz ~ 1.5GHz	1072.5	-39.04	-20	Pass
1.5GHz ~ 10GHz	7322.5	-29.44	-20	Pass

Phase II: 806.0125 MHz, 12.5kHz Channel Spacing, Max Power

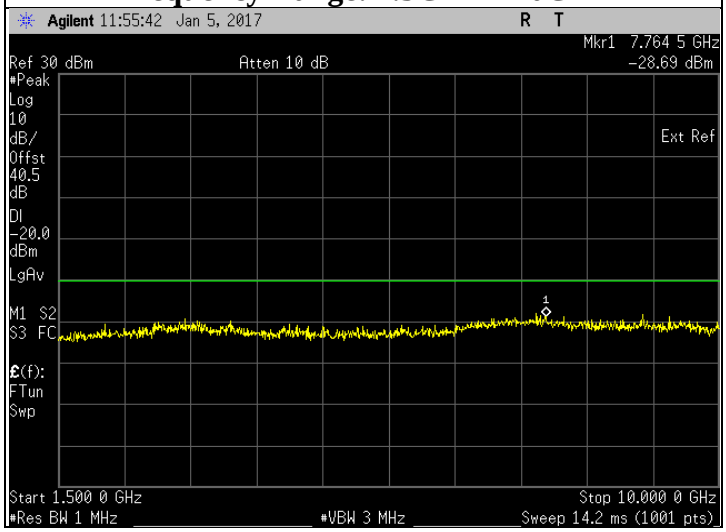
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



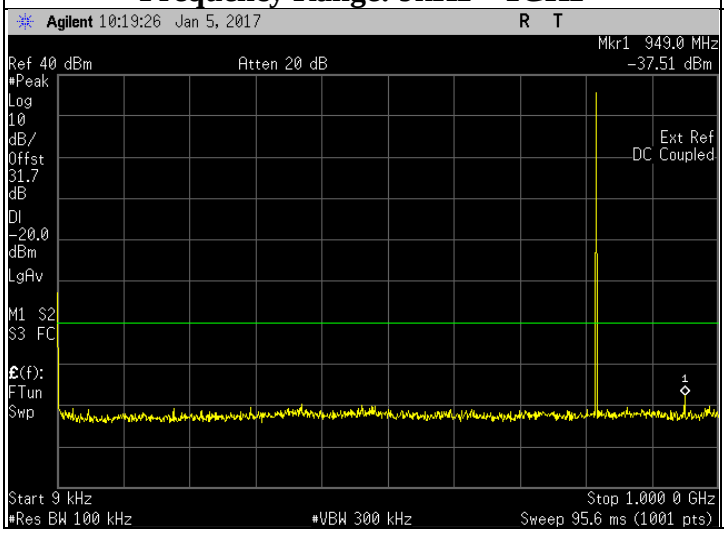
Frequency Range: 1.5GHz ~ 10GHz



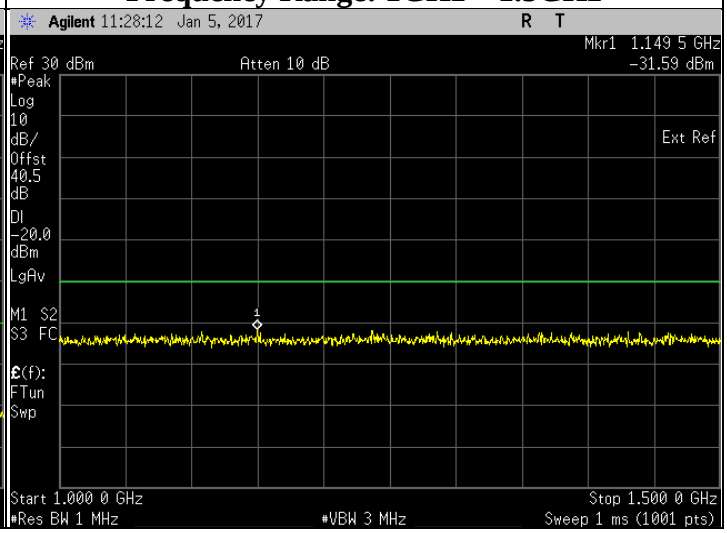
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	940.0	-36.01	-20	Pass
1GHz ~ 1.5GHz	1207.0	-32.10	-20	Pass
1.5GHz ~ 10GHz	7764.5	-28.69	-20	Pass

Phase II: 814.9875 MHz, 12.5kHz Channel Spacing, Max Power

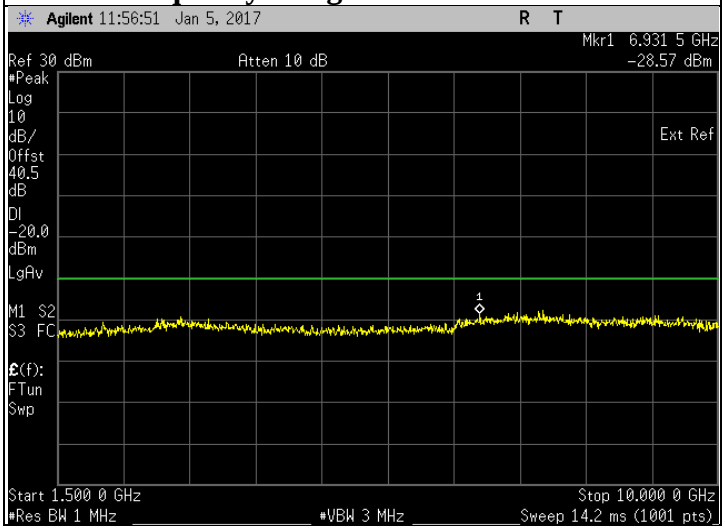
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



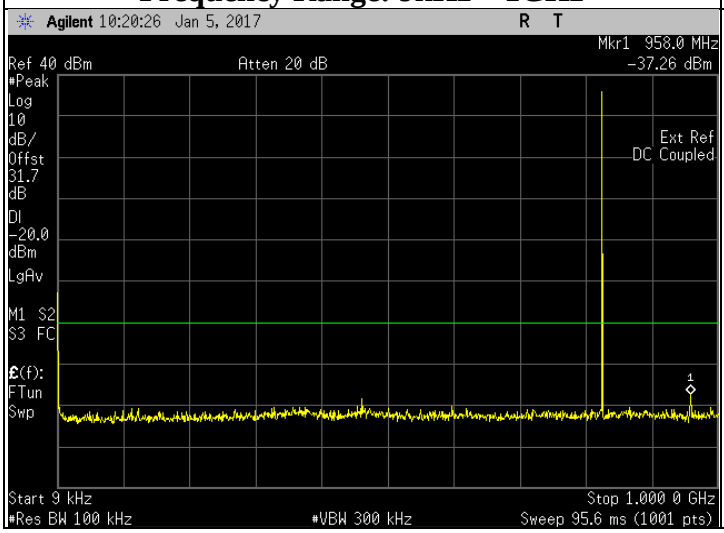
Frequency Range: 1.5GHz ~ 10GHz



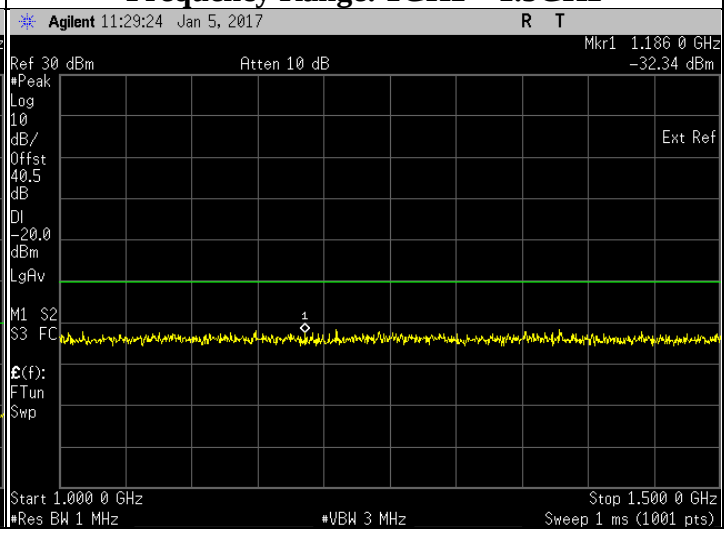
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	949.0	-37.51	-20	Pass
1GHz ~ 1.5GHz	1149.5	-31.59	-20	Pass
1.5GHz ~ 10GHz	6931.5	-28.57	-20	Pass

Phase II: 823.9875 MHz, 12.5kHz Channel Spacing, Max Power

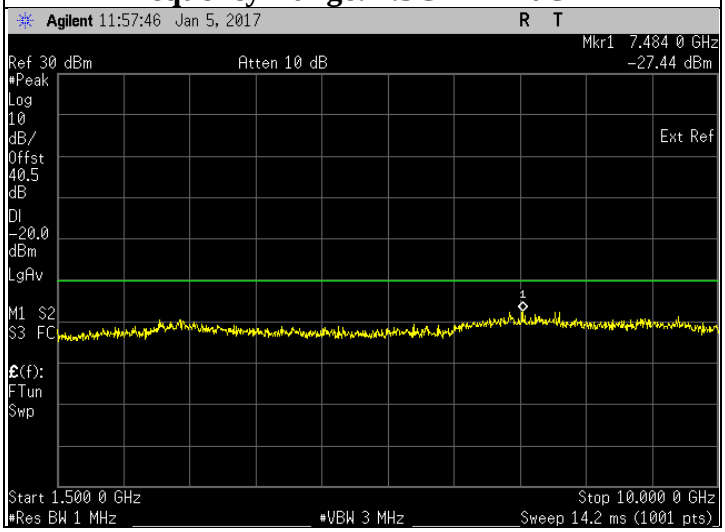
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



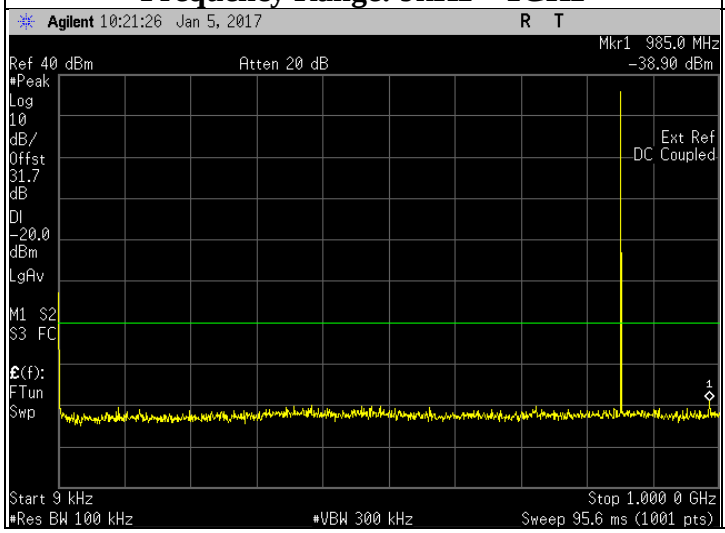
Frequency Range: 1.5GHz ~ 10GHz



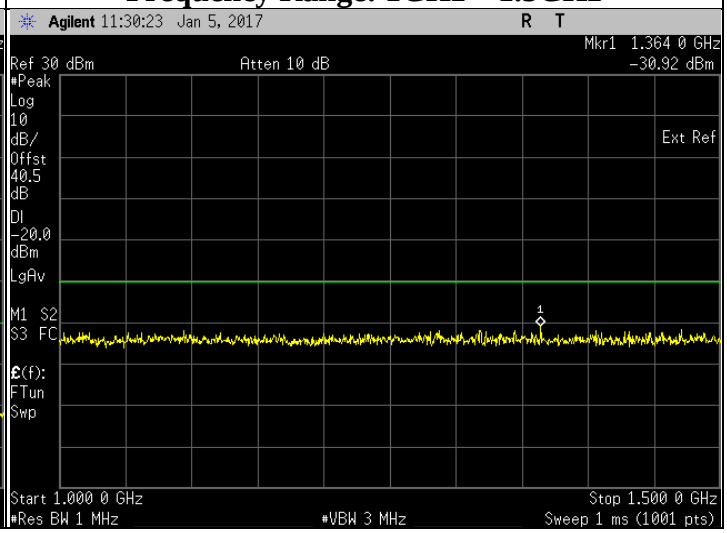
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	958.0	-37.26	-20	Pass
1GHz ~ 1.5GHz	1186.0	-32.34	-20	Pass
1.5GHz ~ 10GHz	7484.0	-27.44	-20	Pass

Phase II: 851.0125 MHz, 12.5kHz Channel Spacing, Max Power

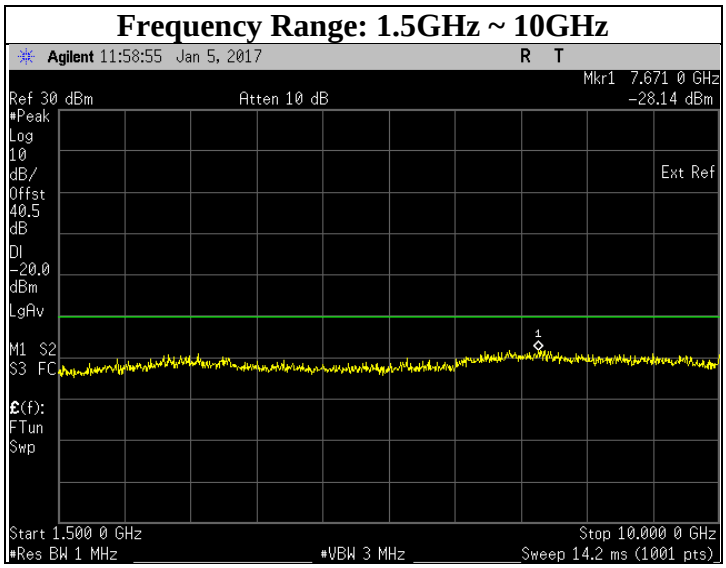
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



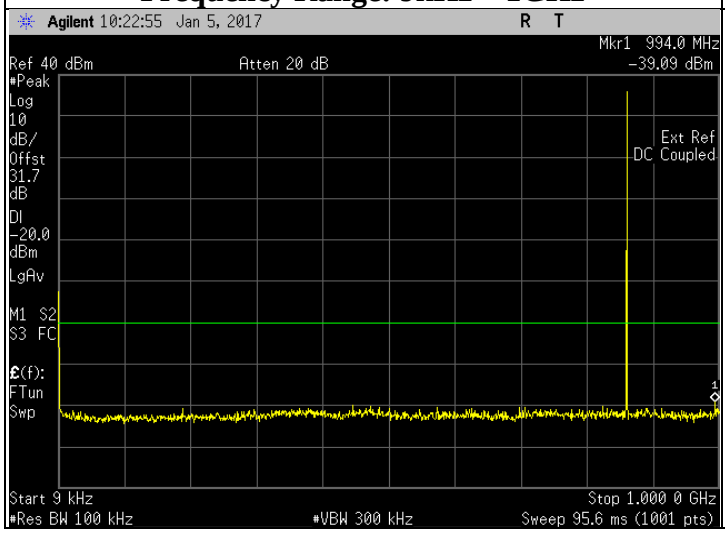
Frequency Range: 1.5GHz ~ 10GHz



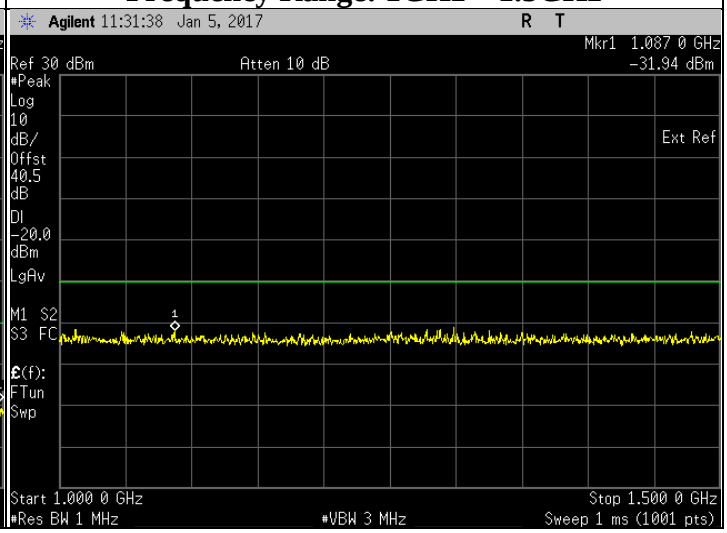
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	985.0	-38.90	-20	Pass
1GHz ~ 1.5GHz	1364.0	-30.92	-20	Pass
1.5GHz ~ 10GHz	7671.0	-28.14	-20	Pass

Phase II: 860.0125 MHz, 12.5kHz Channel Spacing, Max Power

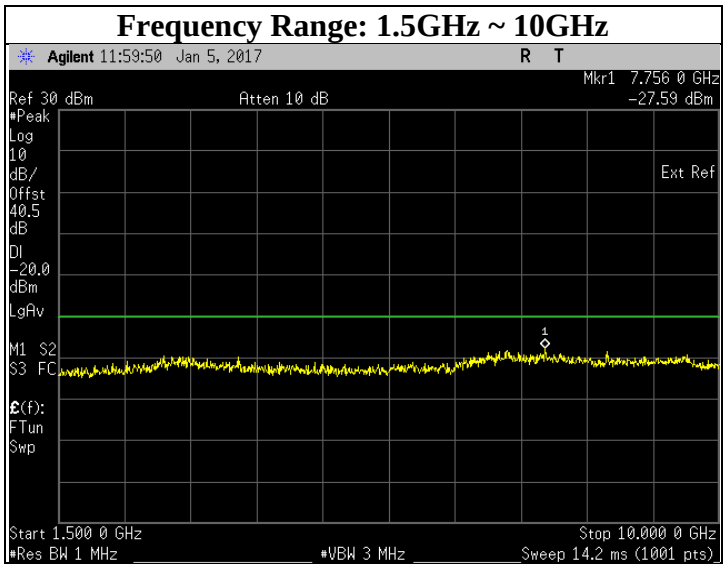
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



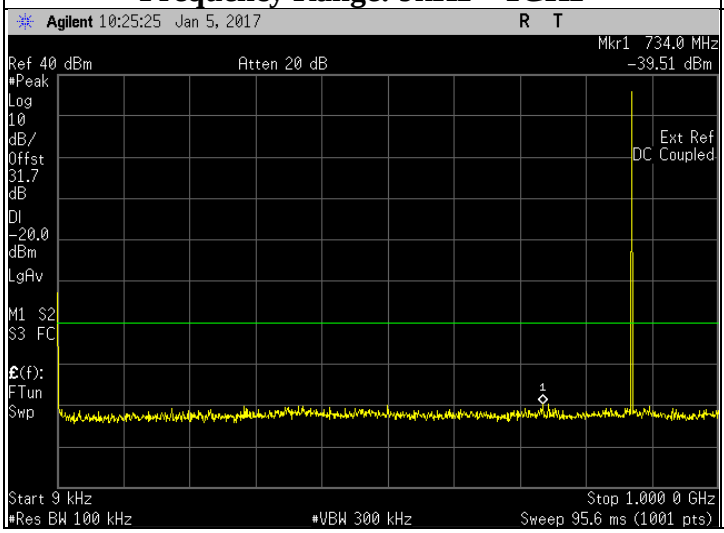
Frequency Range: 1.5GHz ~ 10GHz



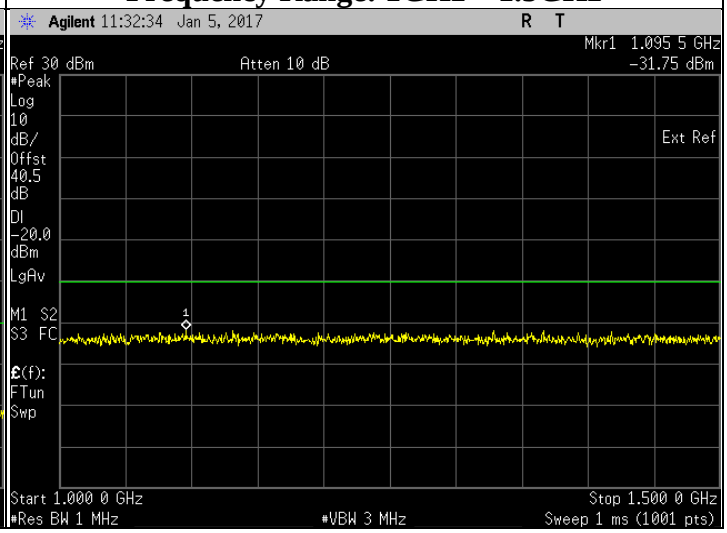
Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	994.0	-39.09	-20	Pass
1GHz ~ 1.5GHz	1087.0	-31.94	-20	Pass
1.5GHz ~ 10GHz	7756.0	-27.59	-20	Pass

Phase II: 868.8875 MHz, 12.5kHz Channel Spacing, Max Power

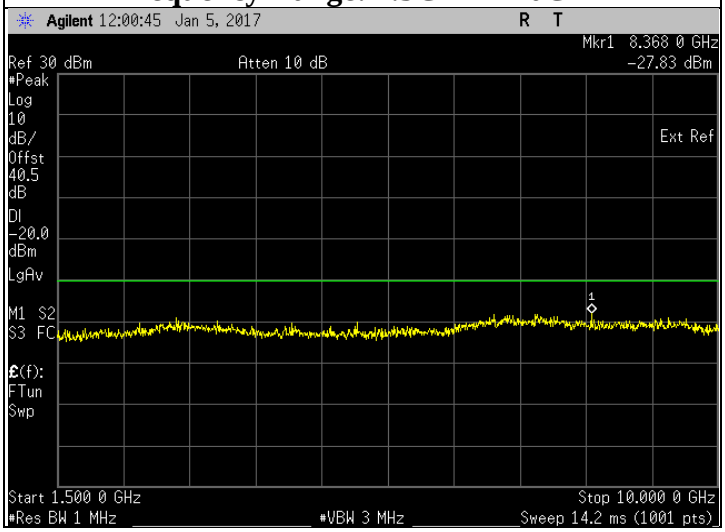
Frequency Range: 9kHz ~ 1GHz



Frequency Range: 1GHz ~ 1.5GHz



Frequency Range: 1.5GHz ~ 10GHz



Frequency Range	Highest Spur Freq (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Remark
9kHz ~ 1GHz	734.0	-39.51	-20	Pass
1GHz ~ 1.5GHz	1095.5	-31.75	-20	Pass
1.5GHz ~ 10GHz	8368.0	-27.83	-20	Pass

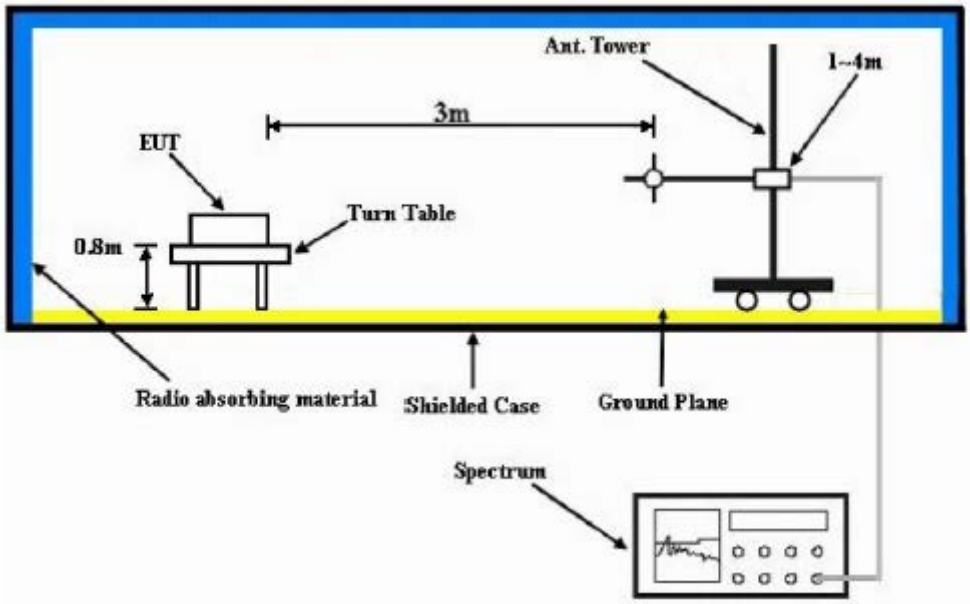
6.10.4. Test Limit

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

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90
12.5kHz	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	Not Applicable	50 + log10(P) (-20 dBm)
25kHz		Not Applicable		43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)

6.11. Radiated Spurious Emission

6.11.1. 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 = 1 MHz, VBW = 3 MHz. 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.

6.11.2. Test Result (Analog)

SAC Transmitter Radiated Emission

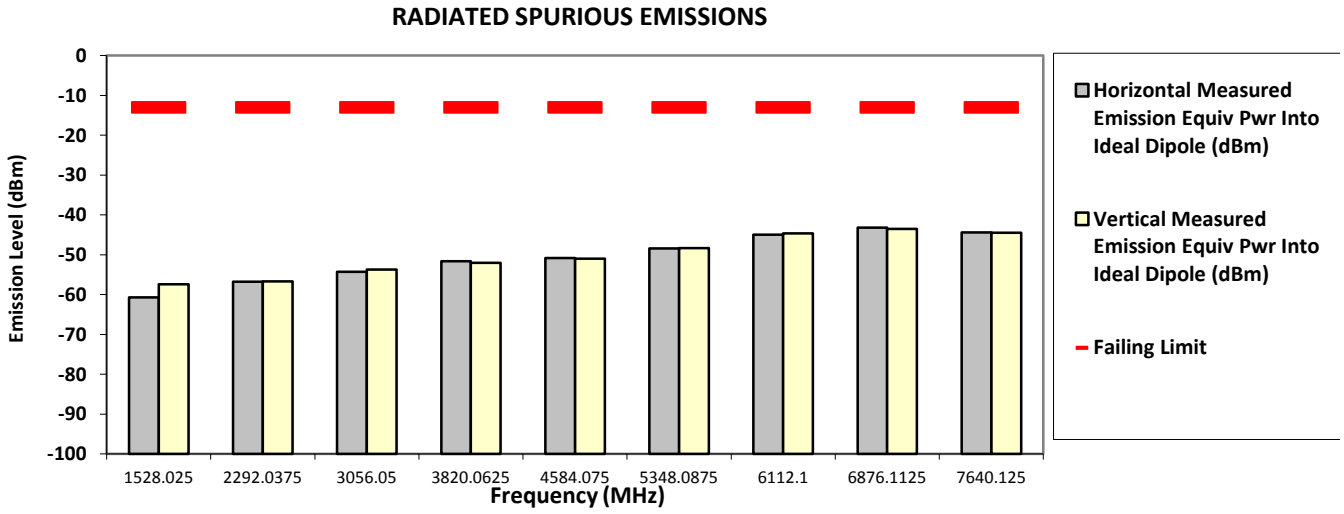
Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

764.012500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1528.0250	-13.0000	-60.7178 **	-57.3912 **
2292.0375	-13.0000	-56.7689 **	-56.7143 **
3056.0500	-13.0000	-54.2778 **	-53.7241 **
3820.0625	-13.0000	-51.6323 **	-52.0320 **
4584.0750	-13.0000	-50.8187 **	-50.9658 **
5348.0875	-13.0000	-48.4629 **	-48.3197 **
6112.1000	-13.0000	-44.9947 **	-44.6782 **
6876.1125	-13.0000	-43.2248 **	-43.5083 **
7640.1250	-13.0000	-44.4209 **	-44.5150 **



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

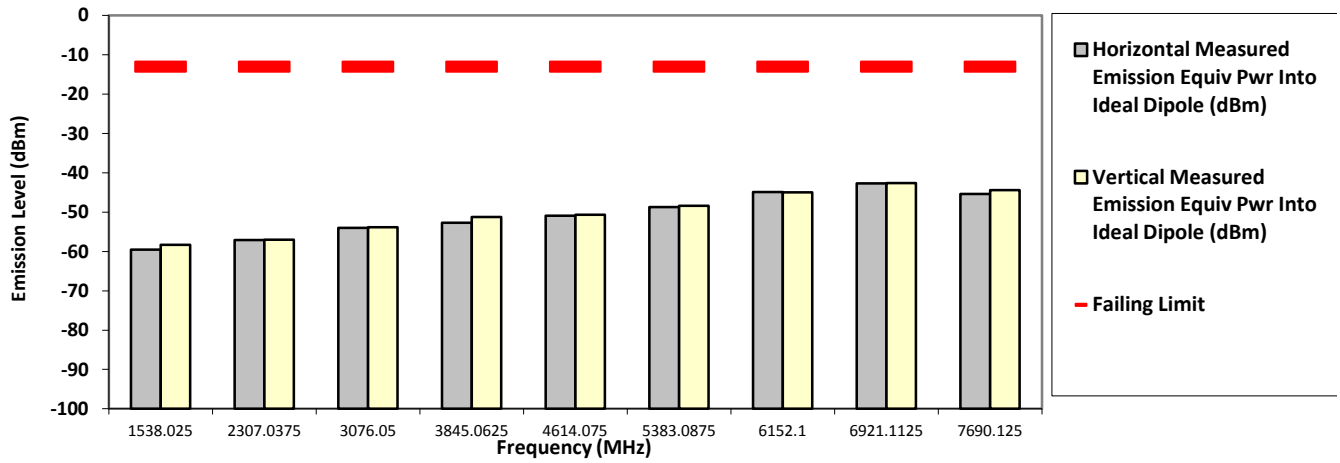
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

769.012500 MHz **12.5 kHz** **2.000 Watt(s)**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.0250	-13.0000	-59.5777 **	-58.2927 **
2307.0375	-13.0000	-57.1156 **	-56.9948 **
3076.0500	-13.0000	-54.0151 **	-53.8509 **
3845.0625	-13.0000	-52.7240 **	-51.2265 **
4614.0750	-13.0000	-50.8940 **	-50.6383 **
5383.0875	-13.0000	-48.6892 **	-48.4092 **
6152.1000	-13.0000	-44.9044 **	-44.9989 **
6921.1125	-13.0000	-42.6668 **	-42.6338 **
7690.1250	-13.0000	-45.3666 **	-44.4210 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

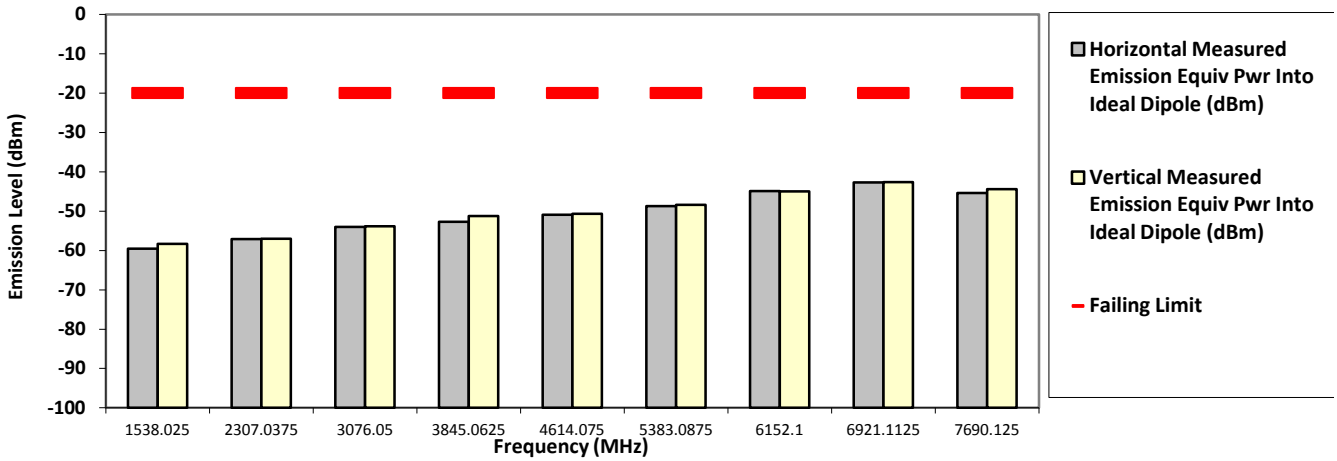
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

769.012500 MHz **12.5 kHz** **2.000 Watt(s)**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.0250	-20.0000	-59.5777 **	-58.2927 **
2307.0375	-20.0000	-57.1156 **	-56.9948 **
3076.0500	-20.0000	-54.0151 **	-53.8509 **
3845.0625	-20.0000	-52.7240 **	-51.2265 **
4614.0750	-20.0000	-50.8940 **	-50.6383 **
5383.0875	-20.0000	-48.6892 **	-48.4092 **
6152.1000	-20.0000	-44.9044 **	-44.9989 **
6921.1125	-20.0000	-42.6668 **	-42.6338 **
7690.1250	-20.0000	-45.3666 **	-44.4210 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

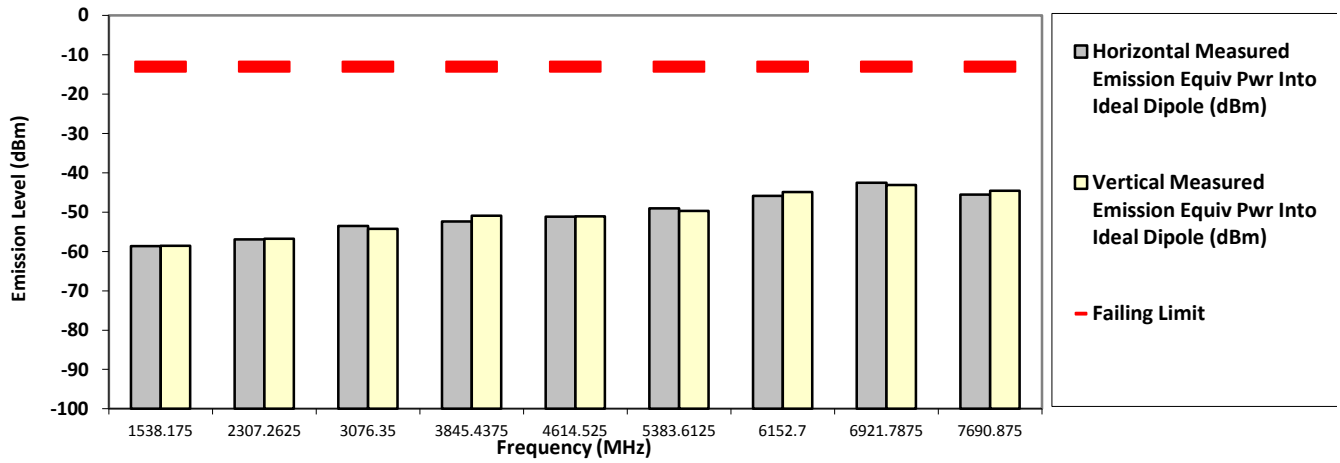
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

769.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.1750	-13.0000	-58.6772 **	-58.5486 **
2307.2625	-13.0000	-56.9427 **	-56.8043 **
3076.3500	-13.0000	-53.5051 **	-54.2348 **
3845.4375	-13.0000	-52.4124 **	-50.9133 **
4614.5250	-13.0000	-51.1885 **	-51.0997 **
5383.6125	-13.0000	-49.0115 **	-49.6612 **
6152.7000	-13.0000	-45.8669 **	-44.9349 **
6921.7875	-13.0000	-42.5078 **	-43.0889 **
7690.8750	-13.0000	-45.5214 **	-44.5867 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

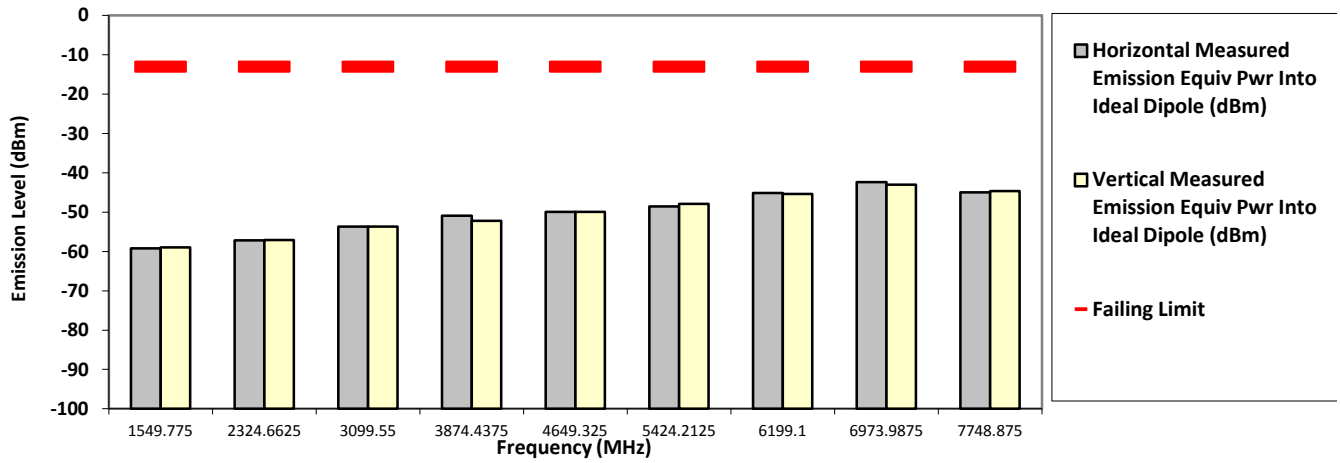
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

774.887500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1549.7750	-13.0000	-59.1981 **	-59.0000 **
2324.6625	-13.0000	-57.1421 **	-57.1113 **
3099.5500	-13.0000	-53.6621 **	-53.6788 **
3874.4375	-13.0000	-50.9071 **	-52.1965 **
4649.3250	-13.0000	-49.9160 **	-49.9623 **
5424.2125	-13.0000	-48.5770 **	-47.8951 **
6199.1000	-13.0000	-45.1159 **	-45.4001 **
6973.9875	-13.0000	-42.3660 **	-43.0027 **
7748.8750	-13.0000	-44.9488 **	-44.6925 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

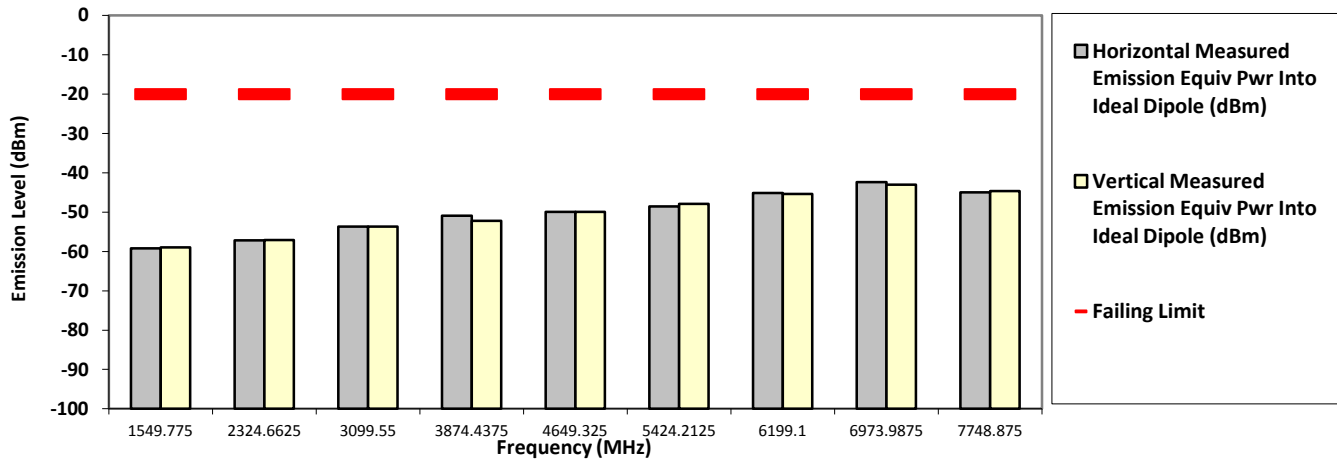
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

774.887500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1549.7750	-20.0000	-59.1981 **	-59.0000 **
2324.6625	-20.0000	-57.1421 **	-57.1113 **
3099.5500	-20.0000	-53.6621 **	-53.6788 **
3874.4375	-20.0000	-50.9071 **	-52.1965 **
4649.3250	-20.0000	-49.9160 **	-49.9623 **
5424.2125	-20.0000	-48.5770 **	-47.8951 **
6199.1000	-20.0000	-45.1159 **	-45.4001 **
6973.9875	-20.0000	-42.3660 **	-43.0027 **
7748.8750	-20.0000	-44.9488 **	-44.6925 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

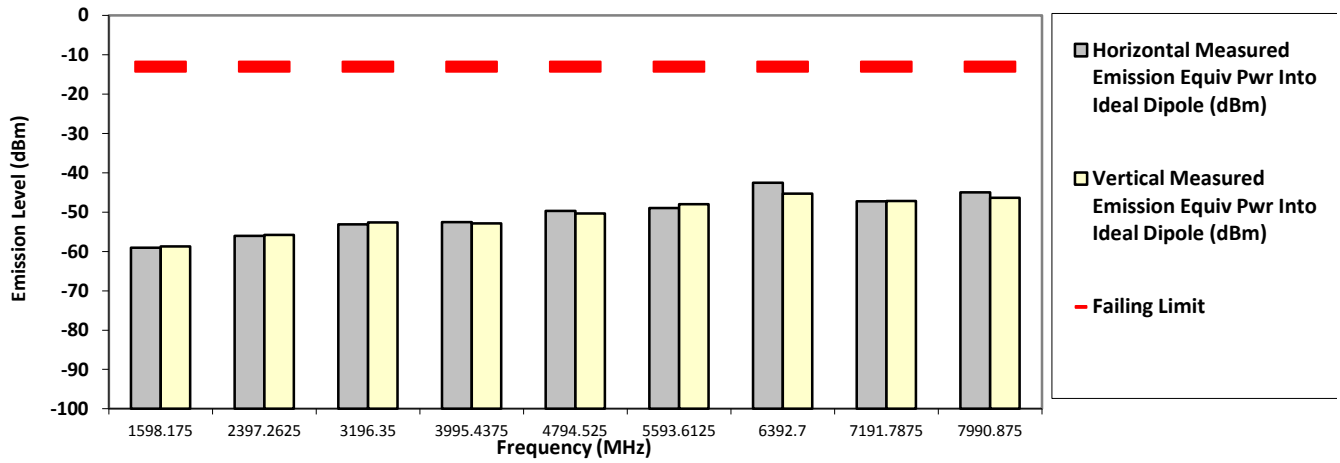
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

799.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1598.1750	-13.0000	-59.0154 **	-58.7371 **
2397.2625	-13.0000	-56.0295 **	-55.8252 **
3196.3500	-13.0000	-53.0846 **	-52.6474 **
3995.4375	-13.0000	-52.5224 **	-52.8335 **
4794.5250	-13.0000	-49.7056 **	-50.3245 **
5593.6125	-13.0000	-48.9641 **	-47.9931 **
6392.7000	-13.0000	-42.5407 **	-45.3076 **
7191.7875	-13.0000	-47.2967 **	-47.1474 **
7990.8750	-13.0000	-44.9806 **	-46.3844 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

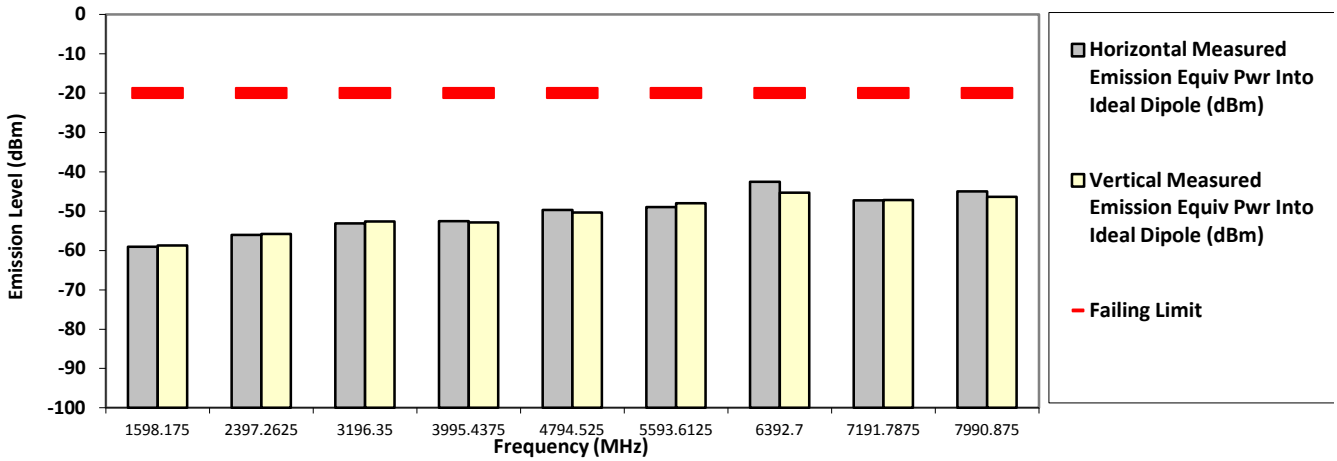
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

799.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1598.1750	-20.0000	-59.0154 **	-58.7371 **
2397.2625	-20.0000	-56.0295 **	-55.8252 **
3196.3500	-20.0000	-53.0846 **	-52.6474 **
3995.4375	-20.0000	-52.5224 **	-52.8335 **
4794.5250	-20.0000	-49.7056 **	-50.3245 **
5593.6125	-20.0000	-48.9641 **	-47.9931 **
6392.7000	-20.0000	-42.5407 **	-45.3076 **
7191.7875	-20.0000	-47.2967 **	-47.1474 **
7990.8750	-20.0000	-44.9806 **	-46.3844 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

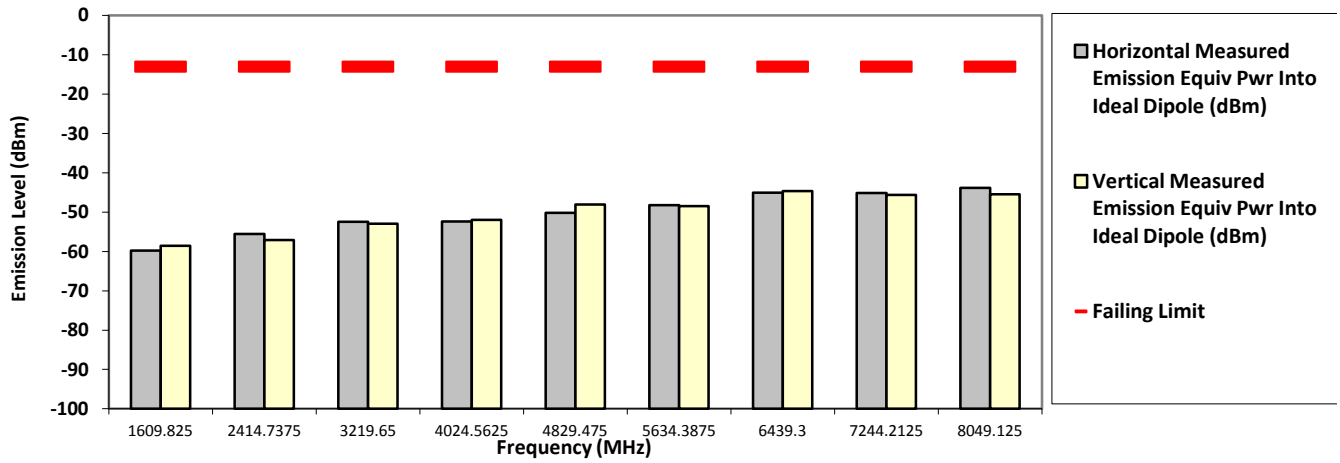
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

804.912500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1609.8250	-13.0000	-59.7684 **	-58.5976 **
2414.7375	-13.0000	-55.5556 **	-57.0872 **
3219.6500	-13.0000	-52.4802 **	-52.9355 **
4024.5625	-13.0000	-52.3756 **	-52.0020 **
4829.4750	-13.0000	-50.2217 **	-48.0541 **
5634.3875	-13.0000	-48.2734 **	-48.4565 **
6439.3000	-13.0000	-45.0785 **	-44.6533 **
7244.2125	-13.0000	-45.1344 **	-45.6536 **
8049.1250	-13.0000	-43.8242 **	-45.4687 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

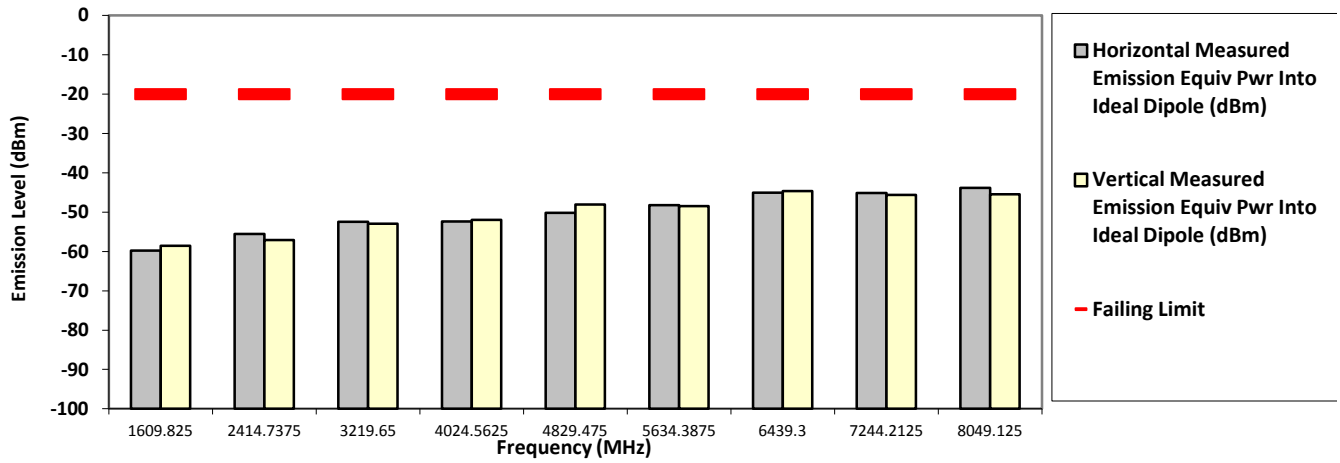
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

804.912500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1609.8250	-20.0000	-59.7684 **	-58.5976 **
2414.7375	-20.0000	-55.5556 **	-57.0872 **
3219.6500	-20.0000	-52.4802 **	-52.9355 **
4024.5625	-20.0000	-52.3756 **	-52.0020 **
4829.4750	-20.0000	-50.2217 **	-48.0541 **
5634.3875	-20.0000	-48.2734 **	-48.4565 **
6439.3000	-20.0000	-45.0785 **	-44.6533 **
7244.2125	-20.0000	-45.1344 **	-45.6536 **
8049.1250	-20.0000	-43.8242 **	-45.4687 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

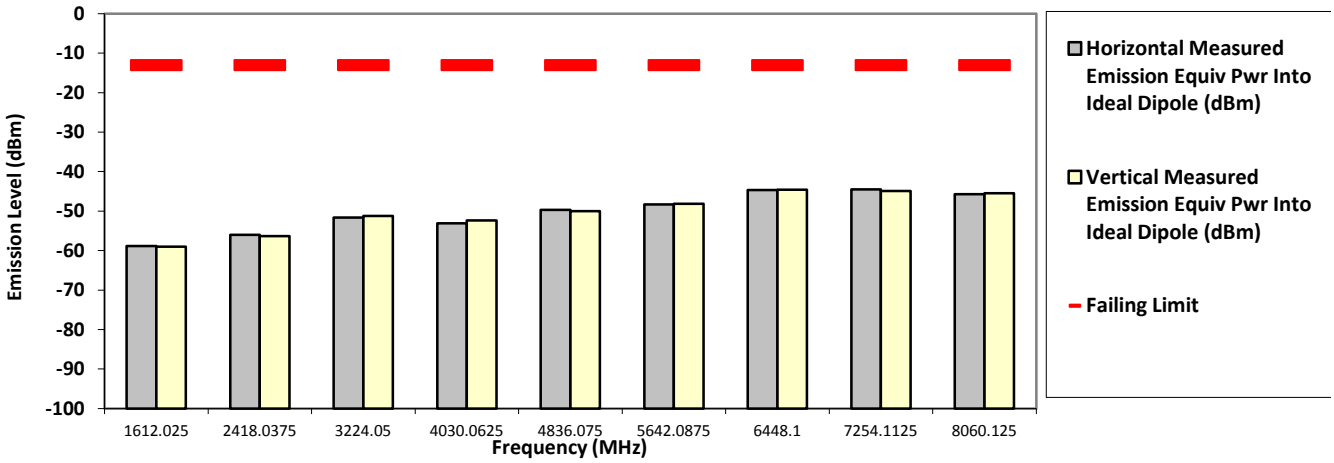
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

806.012500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1612.0250	-13.0000	-58.8038 **	-59.0376 **
2418.0375	-13.0000	-56.0053 **	-56.3292 **
3224.0500	-13.0000	-51.6070 **	-51.2555 **
4030.0625	-13.0000	-53.0552 **	-52.3257 **
4836.0750	-13.0000	-49.7080 **	-50.0313 **
5642.0875	-13.0000	-48.3394 **	-48.1349 **
6448.1000	-13.0000	-44.6239 **	-44.5848 **
7254.1125	-13.0000	-44.5397 **	-44.9421 **
8060.1250	-13.0000	-45.7331 **	-45.4594 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

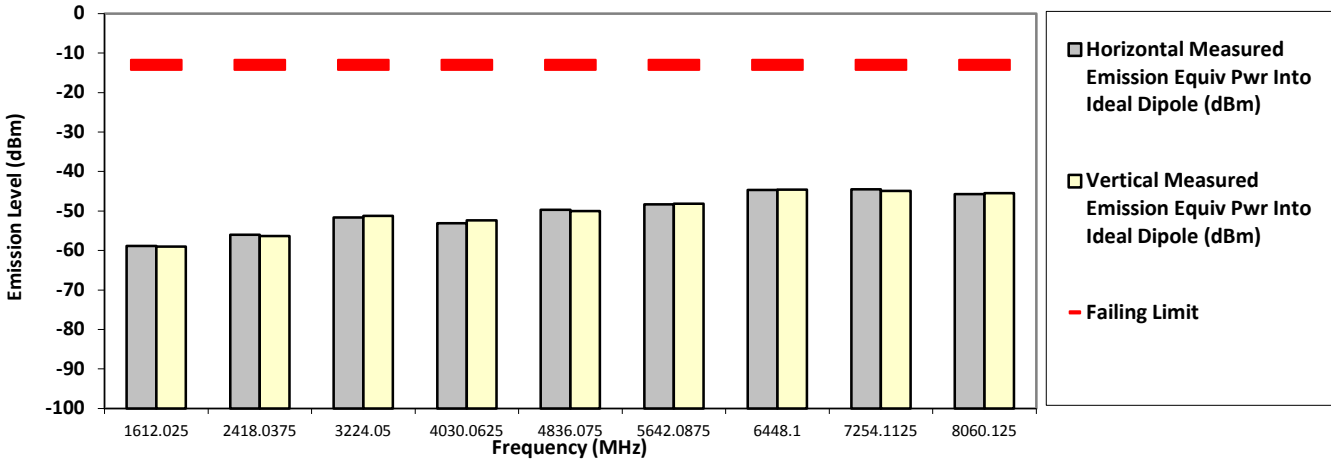
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

806.012500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1612.0250	-13.0000	-58.8038 **	-59.0376 **
2418.0375	-13.0000	-56.0053 **	-56.3292 **
3224.0500	-13.0000	-51.6070 **	-51.2555 **
4030.0625	-13.0000	-53.0552 **	-52.3257 **
4836.0750	-13.0000	-49.7080 **	-50.0313 **
5642.0875	-13.0000	-48.3394 **	-48.1349 **
6448.1000	-13.0000	-44.6239 **	-44.5848 **
7254.1125	-13.0000	-44.5397 **	-44.9421 **
8060.1250	-13.0000	-45.7331 **	-45.4594 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

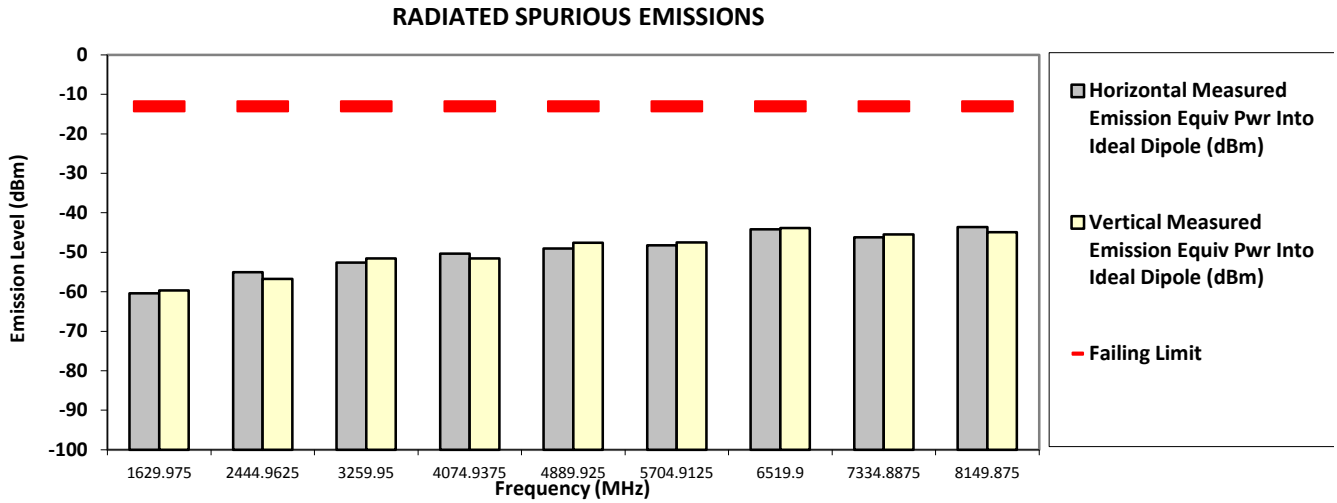
Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

814.987500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1629.9750	-13.0000	-60.3696 **	-59.6819 **
2444.9625	-13.0000	-55.0364 **	-56.7076 **
3259.9500	-13.0000	-52.5997 **	-51.5646 **
4074.9375	-13.0000	-50.3274 **	-51.5481 **
4889.9250	-13.0000	-49.0099 **	-47.6173 **
5704.9125	-13.0000	-48.2440 **	-47.5311 **
6519.9000	-13.0000	-44.1915 **	-43.8888 **
7334.8875	-13.0000	-46.1707 **	-45.4777 **
8149.8750	-13.0000	-43.5992 **	-44.9069 **



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks: Passed Results | **Marginal Results** | **Failed Results**

SAC Transmitter Radiated Emission

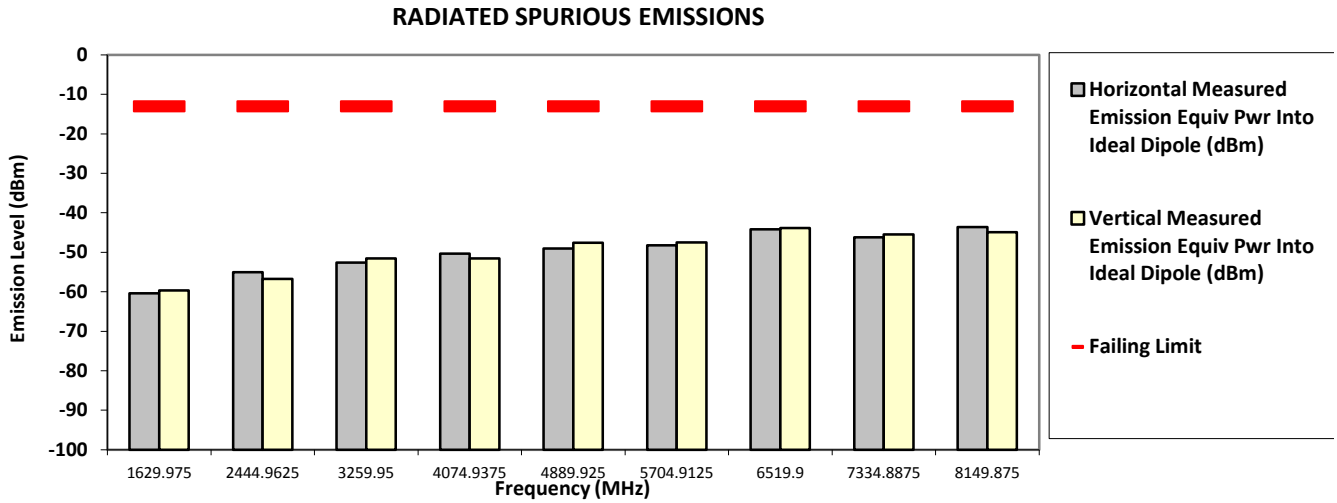
Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

814.987500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1629.9750	-13.0000	-60.3696 **	-59.6819 **
2444.9625	-13.0000	-55.0364 **	-56.7076 **
3259.9500	-13.0000	-52.5997 **	-51.5646 **
4074.9375	-13.0000	-50.3274 **	-51.5481 **
4889.9250	-13.0000	-49.0099 **	-47.6173 **
5704.9125	-13.0000	-48.2440 **	-47.5311 **
6519.9000	-13.0000	-44.1915 **	-43.8888 **
7334.8875	-13.0000	-46.1707 **	-45.4777 **
8149.8750	-13.0000	-43.5992 **	-44.9069 **



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks: Passed Results | **Marginal Results** | **Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

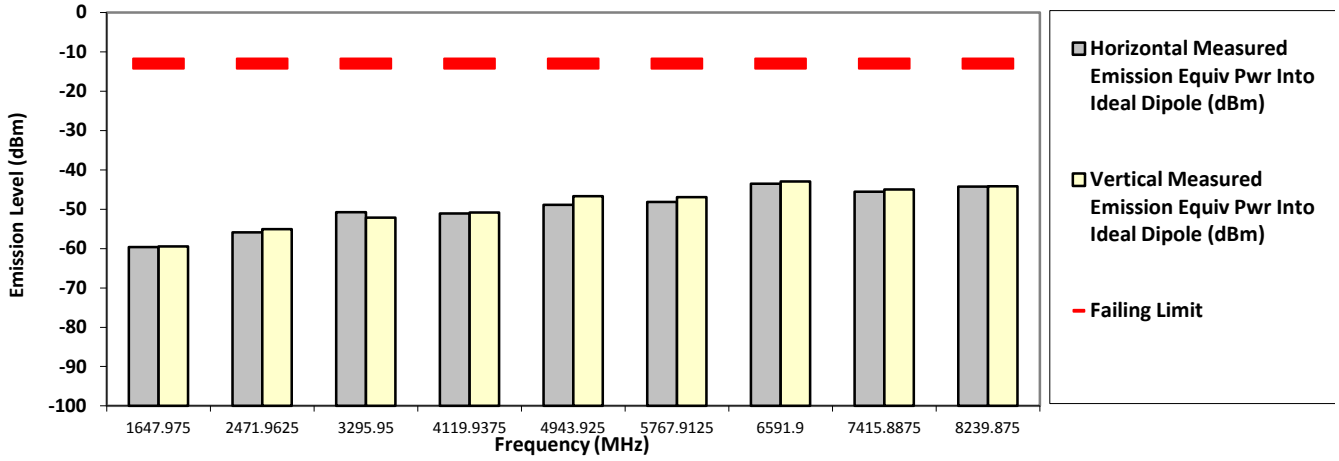
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

823.987500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1647.9750	-13.0000	-59.6519 **	-59.4654 **
2471.9625	-13.0000	-55.8782 **	-55.0276 **
3295.9500	-13.0000	-50.7386 **	-52.1098 **
4119.9375	-13.0000	-51.0512 **	-50.8339 **
4943.9250	-13.0000	-48.8968 **	-46.6578 **
5767.9125	-13.0000	-48.1168 **	-46.9049 **
6591.9000	-13.0000	-43.5208 **	-42.9201 **
7415.8875	-13.0000	-45.5609 **	-44.9453 **
8239.8750	-13.0000	-44.2318 **	-44.1372 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

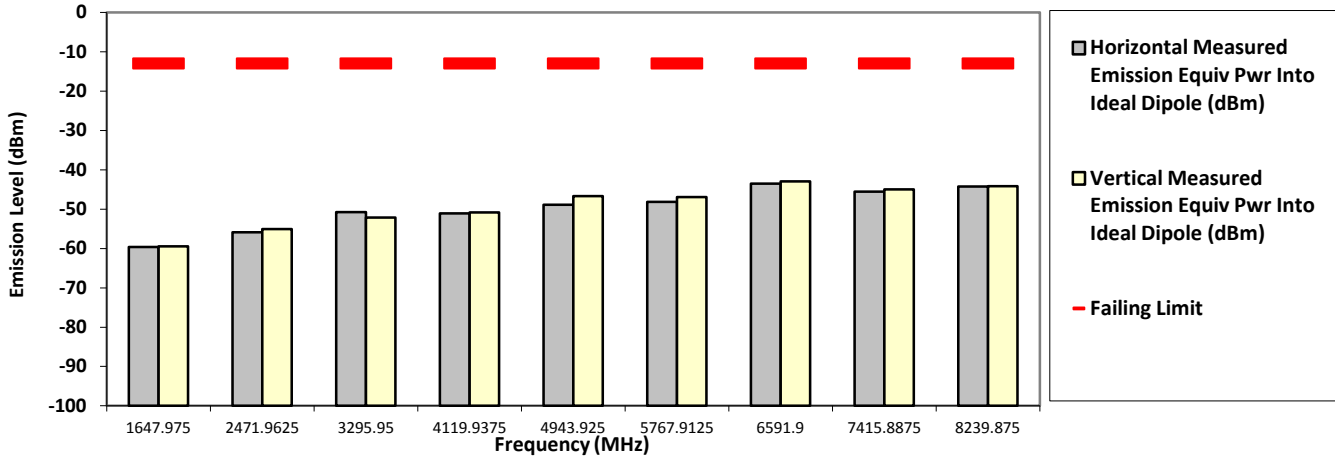
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

823.987500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1647.9750	-13.0000	-59.6519 **	-59.4654 **
2471.9625	-13.0000	-55.8782 **	-55.0276 **
3295.9500	-13.0000	-50.7386 **	-52.1098 **
4119.9375	-13.0000	-51.0512 **	-50.8339 **
4943.9250	-13.0000	-48.8968 **	-46.6578 **
5767.9125	-13.0000	-48.1168 **	-46.9049 **
6591.9000	-13.0000	-43.5208 **	-42.9201 **
7415.8875	-13.0000	-45.5609 **	-44.9453 **
8239.8750	-13.0000	-44.2318 **	-44.1372 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

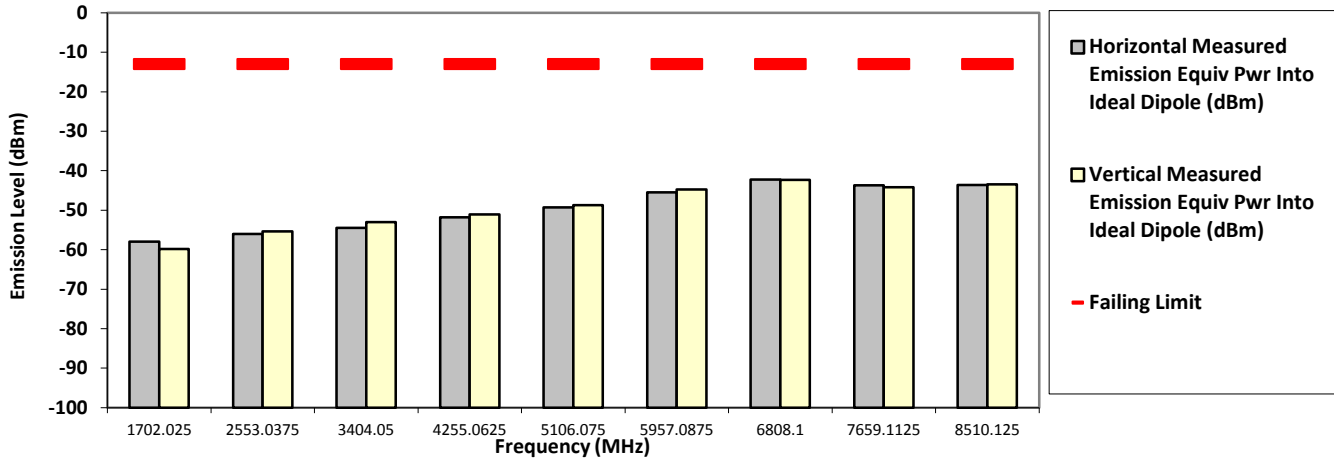
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

851.012500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1702.0250	-13.0000	-57.9851 **	-59.7914 **
2553.0375	-13.0000	-56.0037 **	-55.3921 **
3404.0500	-13.0000	-54.4377 **	-53.0294 **
4255.0625	-13.0000	-51.7843 **	-51.0967 **
5106.0750	-13.0000	-49.2848 **	-48.7369 **
5957.0875	-13.0000	-45.5030 **	-44.7414 **
6808.1000	-13.0000	-42.2515 **	-42.3109 **
7659.1125	-13.0000	-43.6539 **	-44.1866 **
8510.1250	-13.0000	-43.6095 **	-43.4839 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

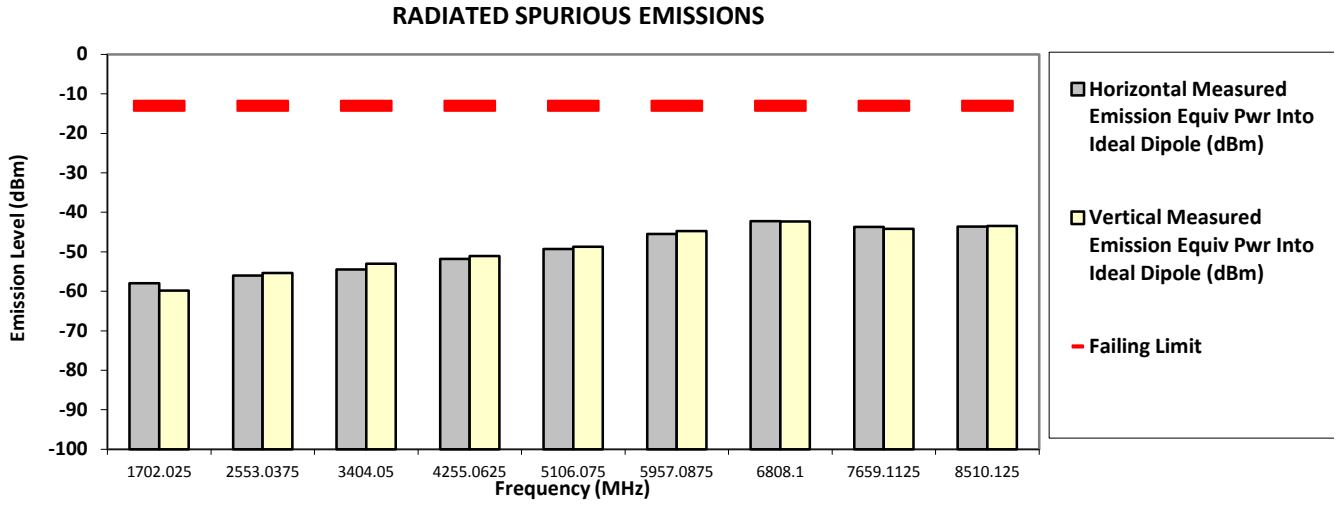
Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

851.012500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1702.0250	-13.0000	-57.9851 **	-59.7914 **
2553.0375	-13.0000	-56.0037 **	-55.3921 **
3404.0500	-13.0000	-54.4377 **	-53.0294 **
4255.0625	-13.0000	-51.7843 **	-51.0967 **
5106.0750	-13.0000	-49.2848 **	-48.7369 **
5957.0875	-13.0000	-45.5030 **	-44.7414 **
6808.1000	-13.0000	-42.2515 **	-42.3109 **
7659.1125	-13.0000	-43.6539 **	-44.1866 **
8510.1250	-13.0000	-43.6095 **	-43.4839 **



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

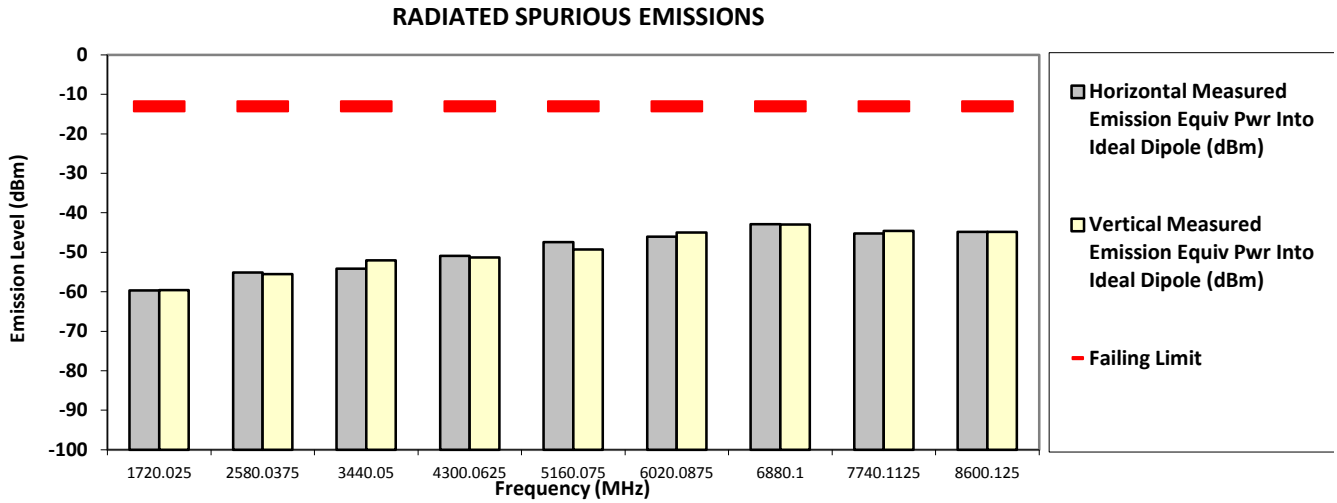
Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

860.012500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1720.0250	-13.0000	-59.6397 **	-59.5602 **
2580.0375	-13.0000	-55.0768 **	-55.5361 **
3440.0500	-13.0000	-54.1560 **	-52.0619 **
4300.0625	-13.0000	-50.9262 **	-51.2963 **
5160.0750	-13.0000	-47.4443 **	-49.2500 **
6020.0875	-13.0000	-46.0595 **	-45.0252 **
6880.1000	-13.0000	-42.9098 **	-42.9623 **
7740.1125	-13.0000	-45.1962 **	-44.5640 **
8600.1250	-13.0000	-44.8160 **	-44.8198 **



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

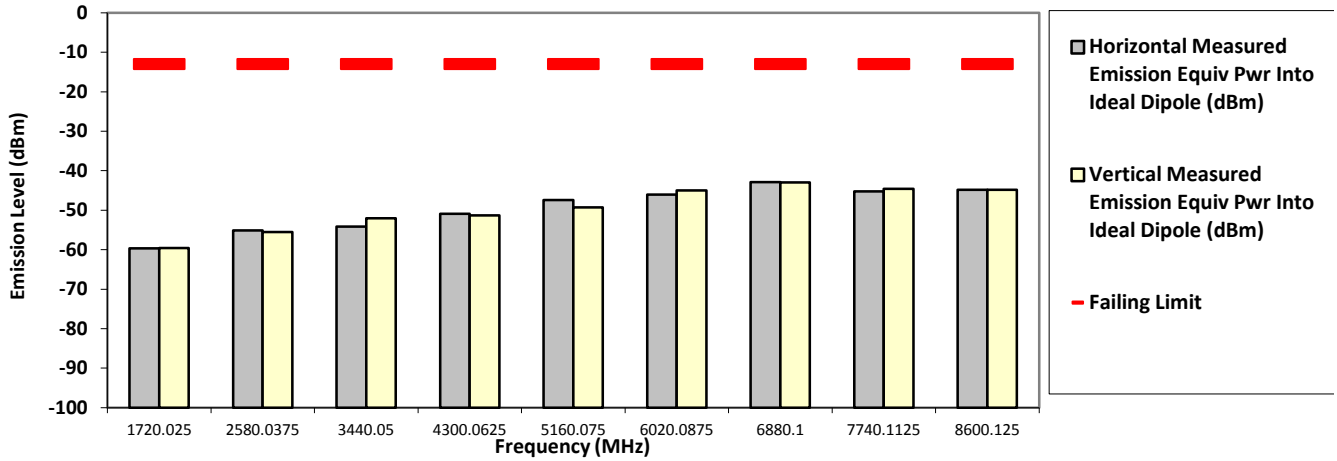
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

860.012500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1720.0250	-13.0000	-59.6397 **	-59.5602 **
2580.0375	-13.0000	-55.0768 **	-55.5361 **
3440.0500	-13.0000	-54.1560 **	-52.0619 **
4300.0625	-13.0000	-50.9262 **	-51.2963 **
5160.0750	-13.0000	-47.4443 **	-49.2500 **
6020.0875	-13.0000	-46.0595 **	-45.0252 **
6880.1000	-13.0000	-42.9098 **	-42.9623 **
7740.1125	-13.0000	-45.1962 **	-44.5640 **
8600.1250	-13.0000	-44.8160 **	-44.8198 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks: Passed Results | **Marginal Results** | **Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

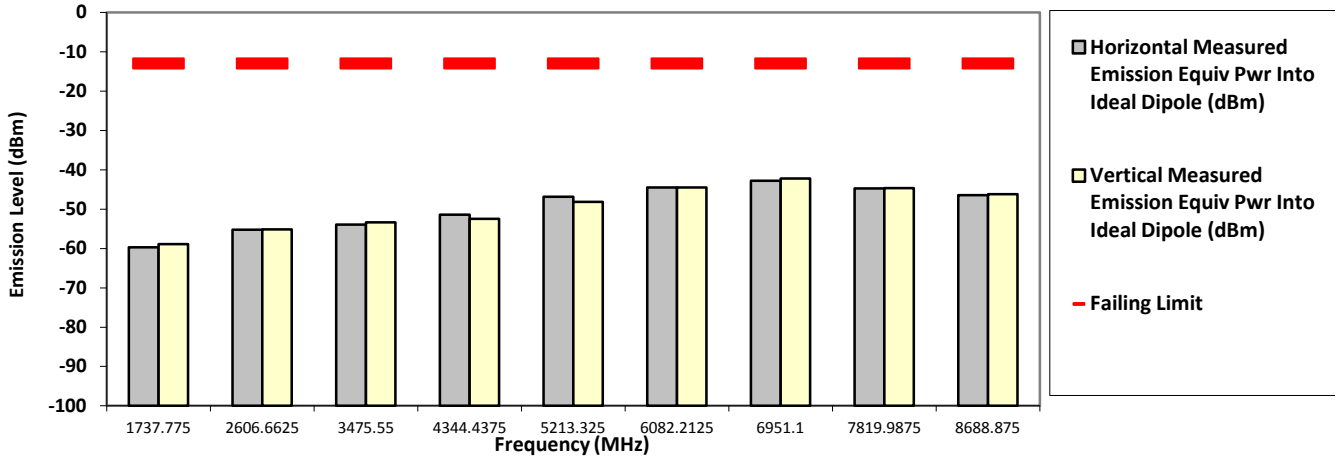
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

868.887500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1737.7750	-13.0000	-59.6661 **	-58.9283 **
2606.6625	-13.0000	-55.2408 **	-55.1681 **
3475.5500	-13.0000	-53.9315 **	-53.3246 **
4344.4375	-13.0000	-51.3988 **	-52.4858 **
5213.3250	-13.0000	-46.8502 **	-48.1217 **
6082.2125	-13.0000	-44.5333 **	-44.5294 **
6951.1000	-13.0000	-42.7617 **	-42.2260 **
7819.9875	-13.0000	-44.7639 **	-44.6566 **
8688.8750	-13.0000	-46.4787 **	-46.2142 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

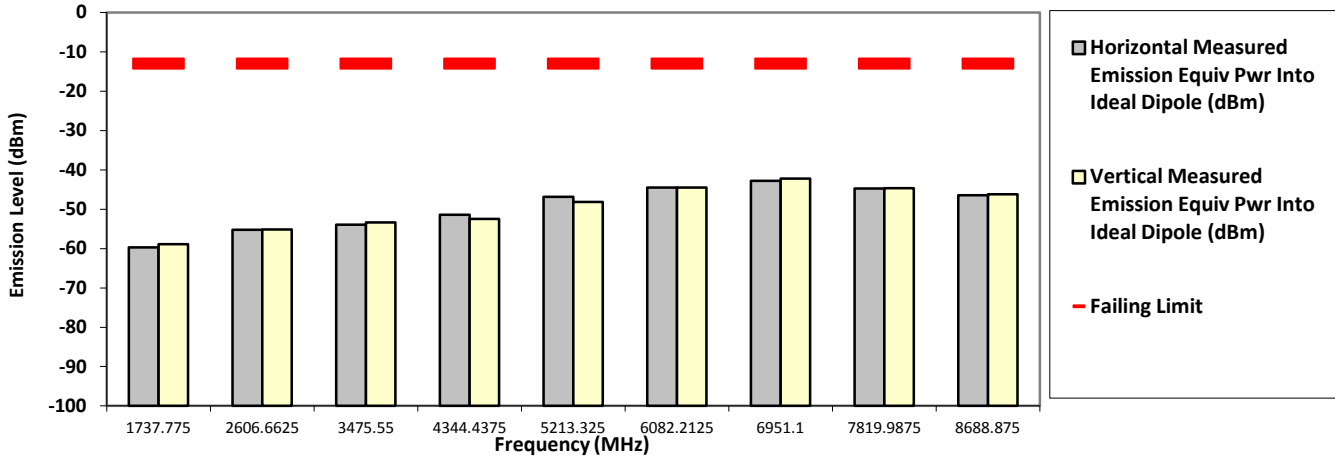
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Analog

868.887500 MHz **25 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1737.7750	-13.0000	-59.6661 **	-58.9283 **
2606.6625	-13.0000	-55.2408 **	-55.1681 **
3475.5500	-13.0000	-53.9315 **	-53.3246 **
4344.4375	-13.0000	-51.3988 **	-52.4858 **
5213.3250	-13.0000	-46.8502 **	-48.1217 **
6082.2125	-13.0000	-44.5333 **	-44.5294 **
6951.1000	-13.0000	-42.7617 **	-42.2260 **
7819.9875	-13.0000	-44.7639 **	-44.6566 **
8688.8750	-13.0000	-46.4787 **	-46.2142 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

6.11.1. Test Result (Digital)

SAC Transmitter Radiated Emission

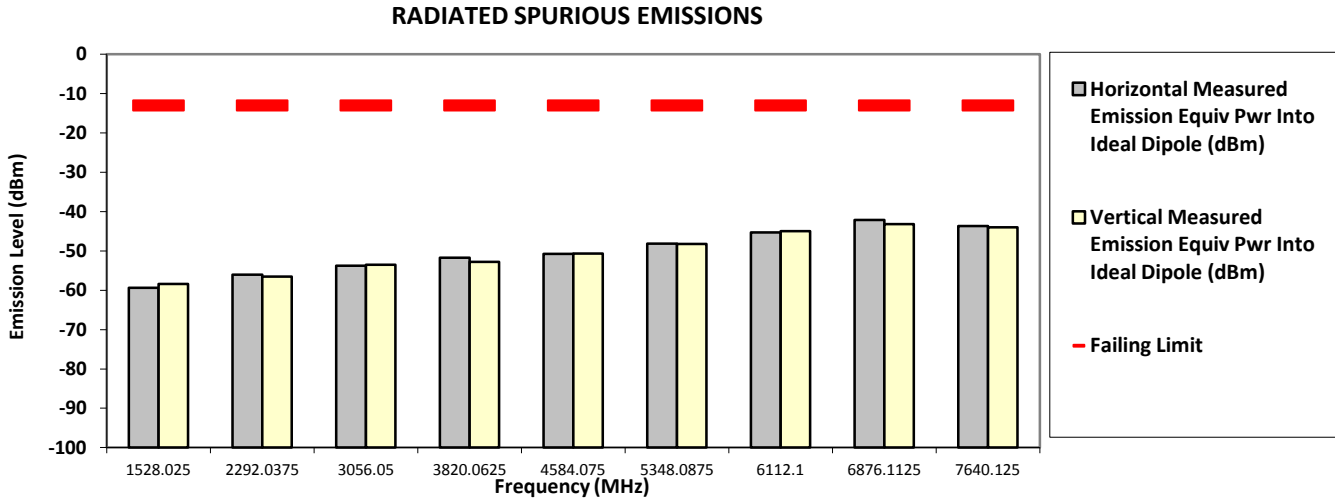
Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

764.012500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1528.0250	-13.0000	-59.3814 **	-58.3672 **
2292.0375	-13.0000	-56.0282 **	-56.5679 **
3056.0500	-13.0000	-53.7329 **	-53.5103 **
3820.0625	-13.0000	-51.7233 **	-52.7598 **
4584.0750	-13.0000	-50.7213 **	-50.6533 **
5348.0875	-13.0000	-48.1637 **	-48.2419 **
6112.1000	-13.0000	-45.2890 **	-44.9728 **
6876.1125	-13.0000	-42.1108 **	-43.2170 **
7640.1250	-13.0000	-43.6566 **	-44.0454 **



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

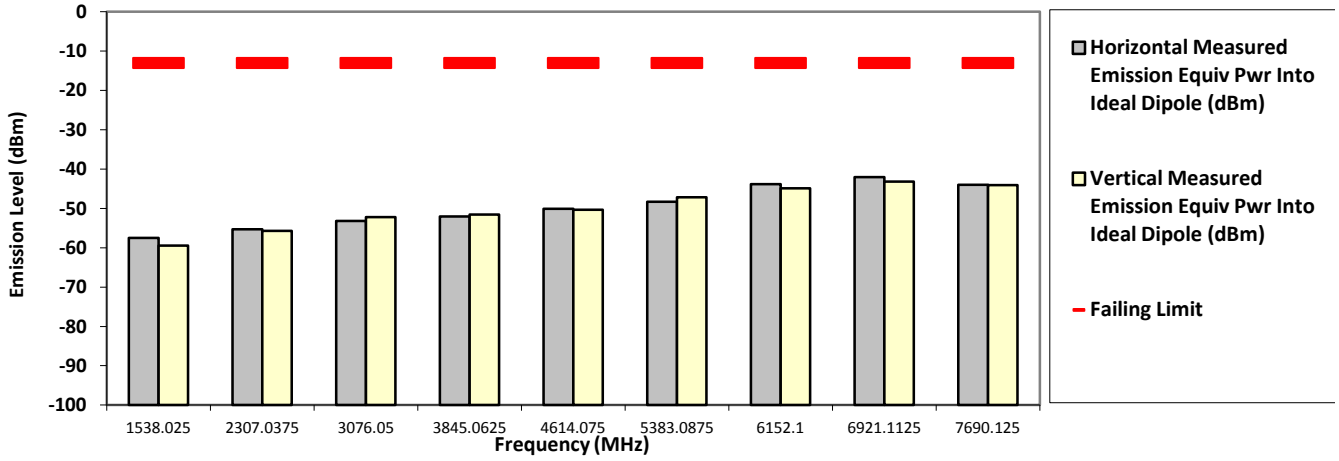
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

769.012500 MHz **12.5 kHz** **2.000 Watt(s)**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.0250	-13.0000	-57.5014 **	-59.4266 **
2307.0375	-13.0000	-55.3497 **	-55.6846 **
3076.0500	-13.0000	-53.2210 **	-52.2237 **
3845.0625	-13.0000	-52.0528 **	-51.5894 **
4614.0750	-13.0000	-50.1434 **	-50.3670 **
5383.0875	-13.0000	-48.2963 **	-47.1906 **
6152.1000	-13.0000	-43.8308 **	-44.9397 **
6921.1125	-13.0000	-42.0754 **	-43.1522 **
7690.1250	-13.0000	-44.0286 **	-44.0496 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

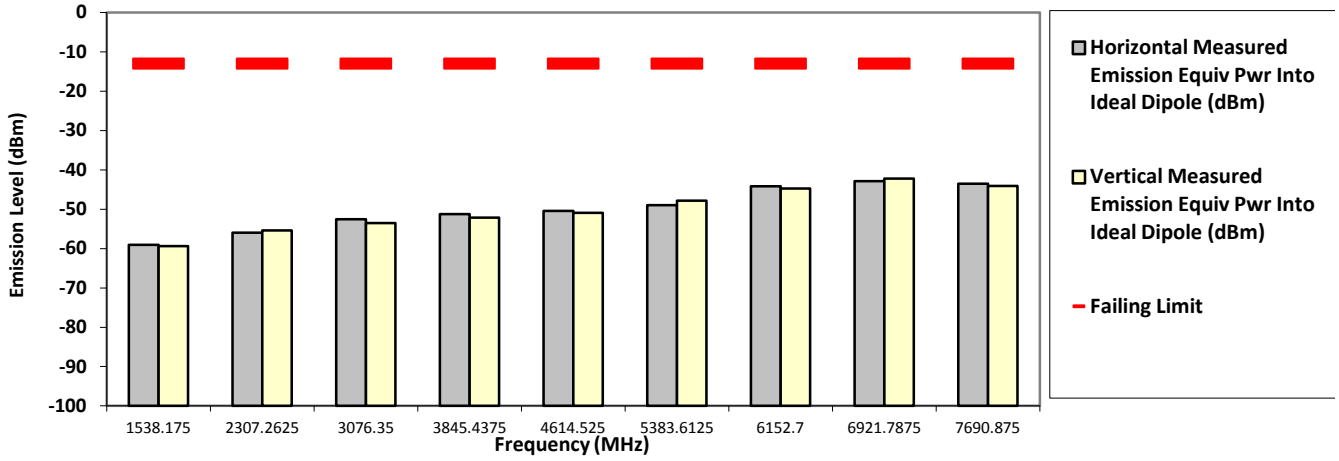
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

769.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.1750	-13.0000	-59.0607 **	-59.3409 **
2307.2625	-13.0000	-56.0014 **	-55.3623 **
3076.3500	-13.0000	-52.5142 **	-53.5152 **
3845.4375	-13.0000	-51.2104 **	-52.1567 **
4614.5250	-13.0000	-50.4015 **	-50.8976 **
5383.6125	-13.0000	-48.9298 **	-47.7996 **
6152.7000	-13.0000	-44.1767 **	-44.7257 **
6921.7875	-13.0000	-42.8801 **	-42.2254 **
7690.8750	-13.0000	-43.5042 **	-44.1198 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

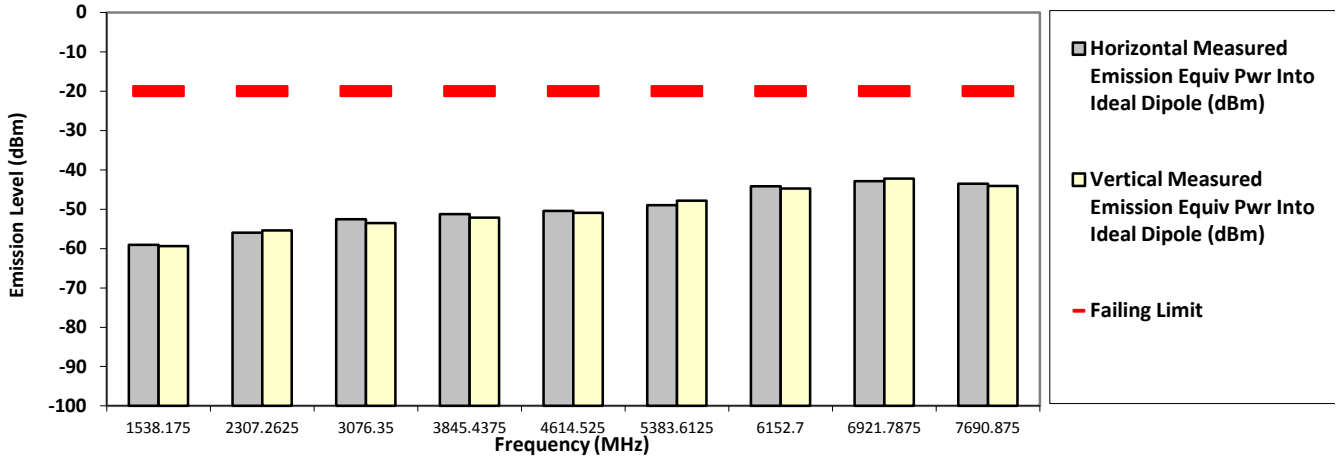
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

769.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.1750	-20.0000	-59.0607 **	-59.3409 **
2307.2625	-20.0000	-56.0014 **	-55.3623 **
3076.3500	-20.0000	-52.5142 **	-53.5152 **
3845.4375	-20.0000	-51.2104 **	-52.1567 **
4614.5250	-20.0000	-50.4015 **	-50.8976 **
5383.6125	-20.0000	-48.9298 **	-47.7996 **
6152.7000	-20.0000	-44.1767 **	-44.7257 **
6921.7875	-20.0000	-42.8801 **	-42.2254 **
7690.8750	-20.0000	-43.5042 **	-44.1198 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

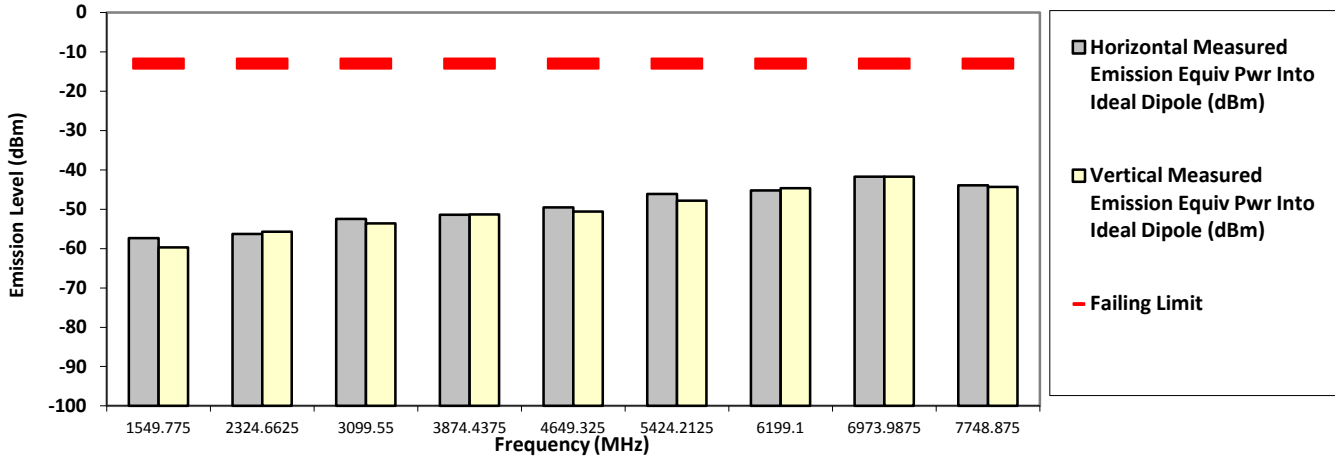
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

774.887500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1549.7750	-13.0000	-57.3723 **	-59.7085 **
2324.6625	-13.0000	-56.2710 **	-55.7406 **
3099.5500	-13.0000	-52.4270 **	-53.6075 **
3874.4375	-13.0000	-51.4130 **	-51.3631 **
4649.3250	-13.0000	-49.5475 **	-50.5698 **
5424.2125	-13.0000	-46.1338 **	-47.8332 **
6199.1000	-13.0000	-45.2141 **	-44.6955 **
6973.9875	-13.0000	-41.7096 **	-41.7673 **
7748.8750	-13.0000	-43.8945 **	-44.2958 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

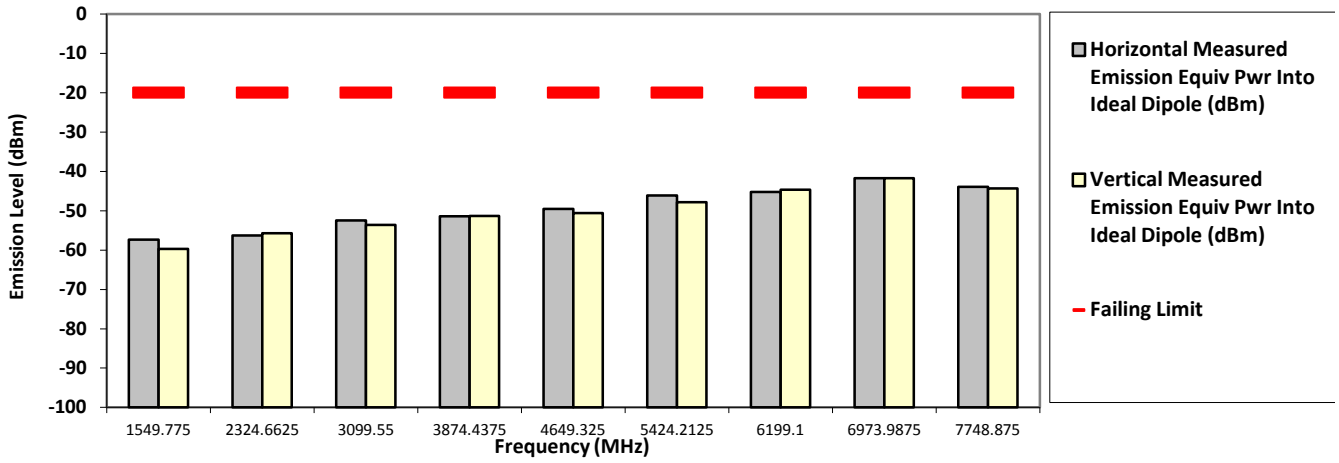
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

774.887500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1549.7750	-20.0000	-57.3723 **	-59.7085 **
2324.6625	-20.0000	-56.2710 **	-55.7406 **
3099.5500	-20.0000	-52.4270 **	-53.6075 **
3874.4375	-20.0000	-51.4130 **	-51.3631 **
4649.3250	-20.0000	-49.5475 **	-50.5698 **
5424.2125	-20.0000	-46.1338 **	-47.8332 **
6199.1000	-20.0000	-45.2141 **	-44.6955 **
6973.9875	-20.0000	-41.7096 **	-41.7673 **
7748.8750	-20.0000	-43.8945 **	-44.2958 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

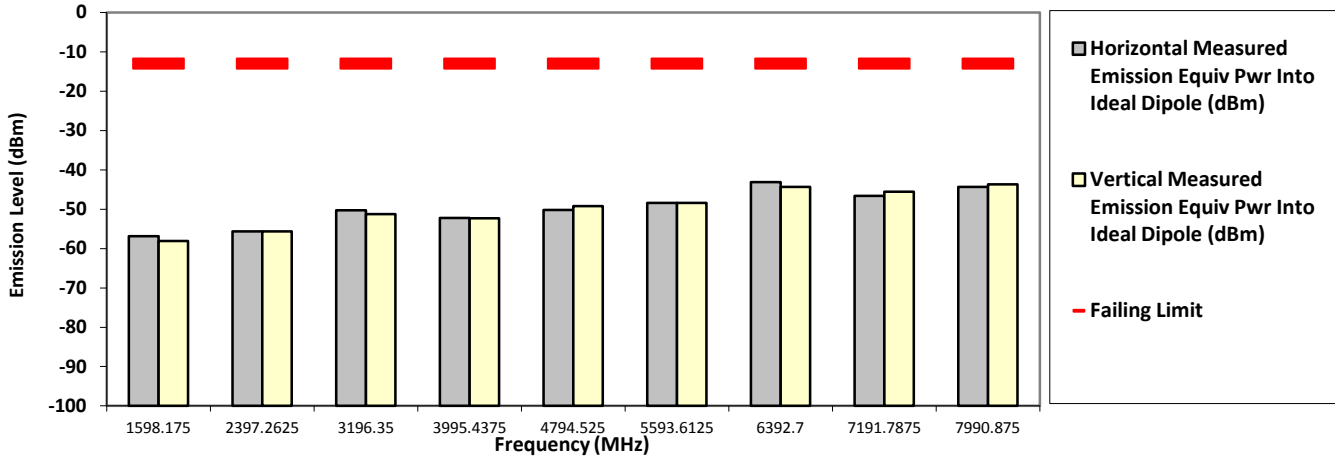
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

799.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1598.1750	-13.0000	-56.8404 **	-58.0510 **
2397.2625	-13.0000	-55.6511 **	-55.6191 **
3196.3500	-13.0000	-50.2538 **	-51.2114 **
3995.4375	-13.0000	-52.1947 **	-52.2679 **
4794.5250	-13.0000	-50.1930 **	-49.2100 **
5593.6125	-13.0000	-48.4292 **	-48.3632 **
6392.7000	-13.0000	-43.1220 **	-44.2959 **
7191.7875	-13.0000	-46.5997 **	-45.5820 **
7990.8750	-13.0000	-44.3586 **	-43.6951 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

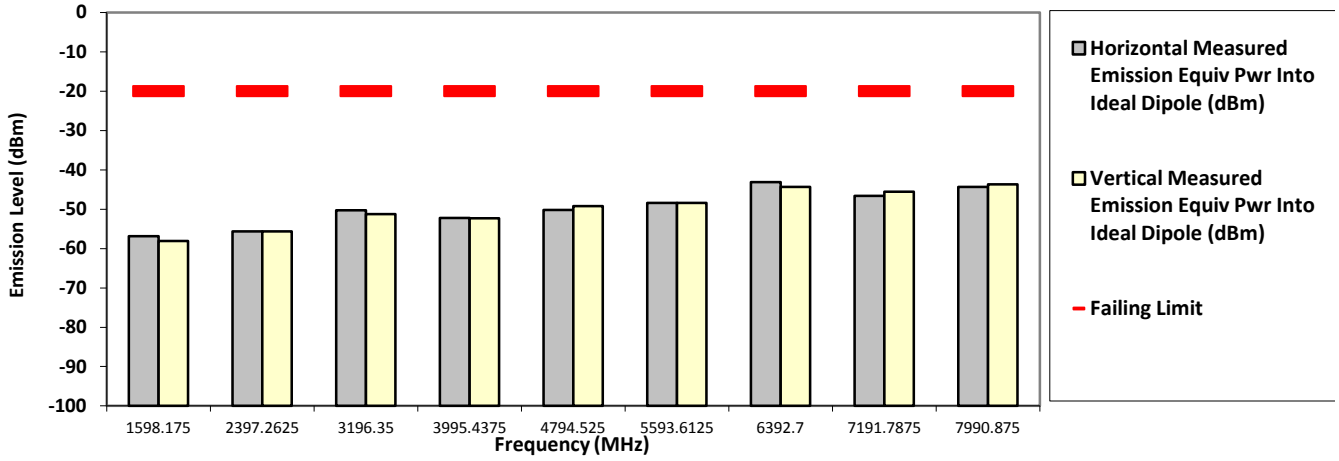
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

799.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1598.1750	-20.0000	-56.8404 **	-58.0510 **
2397.2625	-20.0000	-55.6511 **	-55.6191 **
3196.3500	-20.0000	-50.2538 **	-51.2114 **
3995.4375	-20.0000	-52.1947 **	-52.2679 **
4794.5250	-20.0000	-50.1930 **	-49.2100 **
5593.6125	-20.0000	-48.4292 **	-48.3632 **
6392.7000	-20.0000	-43.1220 **	-44.2959 **
7191.7875	-20.0000	-46.5997 **	-45.5820 **
7990.8750	-20.0000	-44.3586 **	-43.6951 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

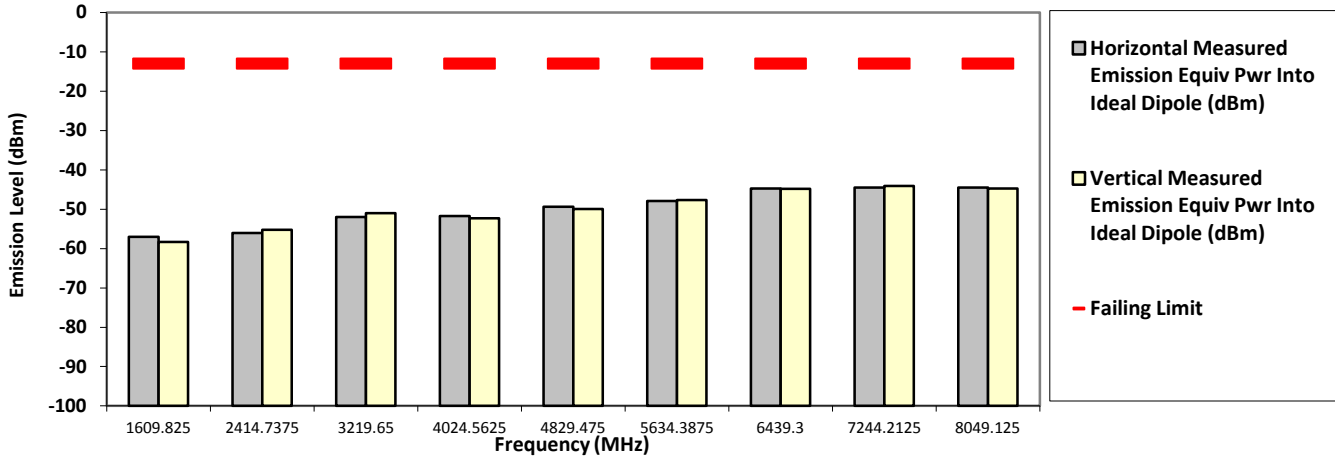
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

804.912500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1609.8250	-13.0000	-57.0378 **	-58.2827 **
2414.7375	-13.0000	-56.0756 **	-55.2119 **
3219.6500	-13.0000	-51.9764 **	-51.0202 **
4024.5625	-13.0000	-51.7151 **	-52.2892 **
4829.4750	-13.0000	-49.3829 **	-49.9639 **
5634.3875	-13.0000	-47.9043 **	-47.6427 **
6439.3000	-13.0000	-44.7061 **	-44.8064 **
7244.2125	-13.0000	-44.5221 **	-44.0818 **
8049.1250	-13.0000	-44.4637 **	-44.7391 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

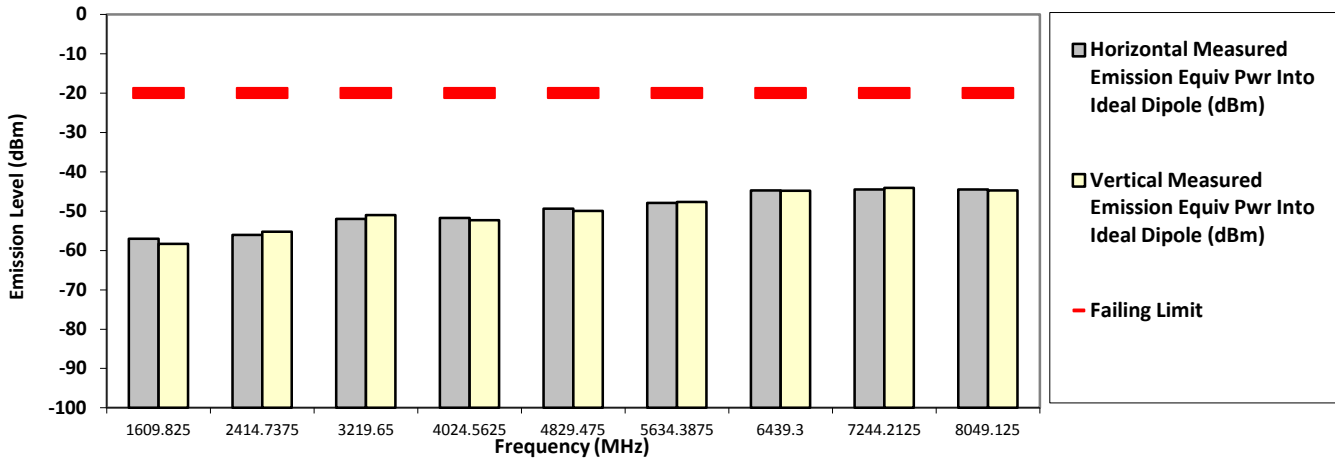
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

804.912500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1609.8250	-20.0000	-57.0378 **	-58.2827 **
2414.7375	-20.0000	-56.0756 **	-55.2119 **
3219.6500	-20.0000	-51.9764 **	-51.0202 **
4024.5625	-20.0000	-51.7151 **	-52.2892 **
4829.4750	-20.0000	-49.3829 **	-49.9639 **
5634.3875	-20.0000	-47.9043 **	-47.6427 **
6439.3000	-20.0000	-44.7061 **	-44.8064 **
7244.2125	-20.0000	-44.5221 **	-44.0818 **
8049.1250	-20.0000	-44.4637 **	-44.7391 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks: Passed Results | **Marginal Results** | **Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

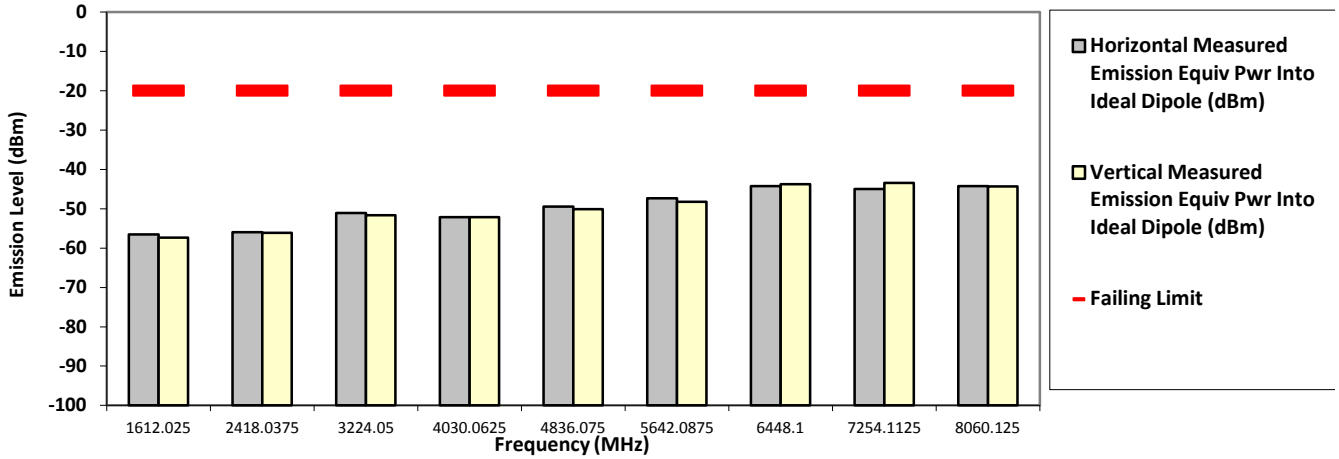
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

806.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1612.0250	-20.0000	-56.5419 **	-57.3617 **
2418.0375	-20.0000	-55.9515 **	-56.0974 **
3224.0500	-20.0000	-51.0866 **	-51.6395 **
4030.0625	-20.0000	-52.1233 **	-52.1329 **
4836.0750	-20.0000	-49.4407 **	-50.0749 **
5642.0875	-20.0000	-47.3565 **	-48.2342 **
6448.1000	-20.0000	-44.2552 **	-43.7592 **
7254.1125	-20.0000	-44.9967 **	-43.4127 **
8060.1250	-20.0000	-44.2202 **	-44.3507 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**
FCC Registration: 772092 **Industry Canada: 109AK**
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**
Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks: Passed Results | **Marginal Results** | **Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

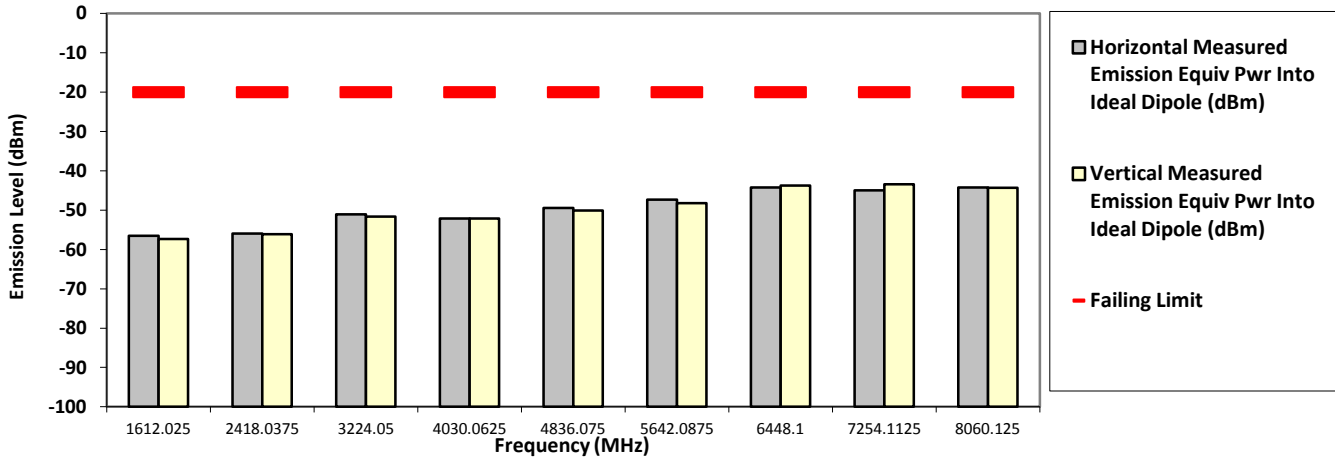
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

806.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1612.0250	-20.0000	-56.5419 **	-57.3617 **
2418.0375	-20.0000	-55.9515 **	-56.0974 **
3224.0500	-20.0000	-51.0866 **	-51.6395 **
4030.0625	-20.0000	-52.1233 **	-52.1329 **
4836.0750	-20.0000	-49.4407 **	-50.0749 **
5642.0875	-20.0000	-47.3565 **	-48.2342 **
6448.1000	-20.0000	-44.2552 **	-43.7592 **
7254.1125	-20.0000	-44.9967 **	-43.4127 **
8060.1250	-20.0000	-44.2202 **	-44.3507 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

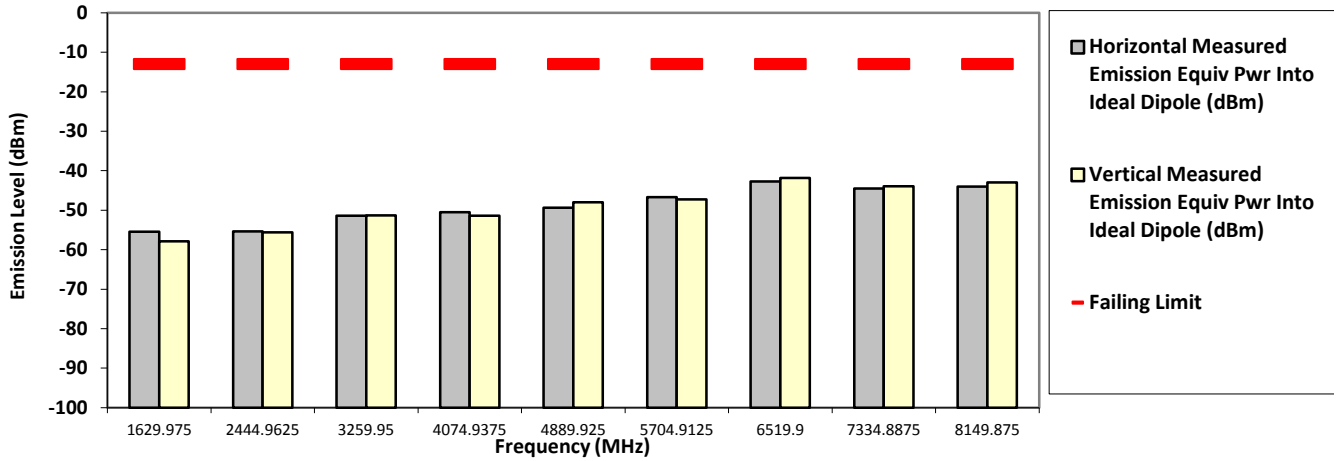
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

814.987500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1629.9750	-13.0000	-55.4728 **	-57.8951 **
2444.9625	-13.0000	-55.3930 **	-55.6297 **
3259.9500	-13.0000	-51.3737 **	-51.3430 **
4074.9375	-13.0000	-50.4689 **	-51.3801 **
4889.9250	-13.0000	-49.3657 **	-47.9575 **
5704.9125	-13.0000	-46.7171 **	-47.2383 **
6519.9000	-13.0000	-42.7142 **	-41.7929 **
7334.8875	-13.0000	-44.4916 **	-43.9623 **
8149.8750	-13.0000	-44.0278 **	-42.9494 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

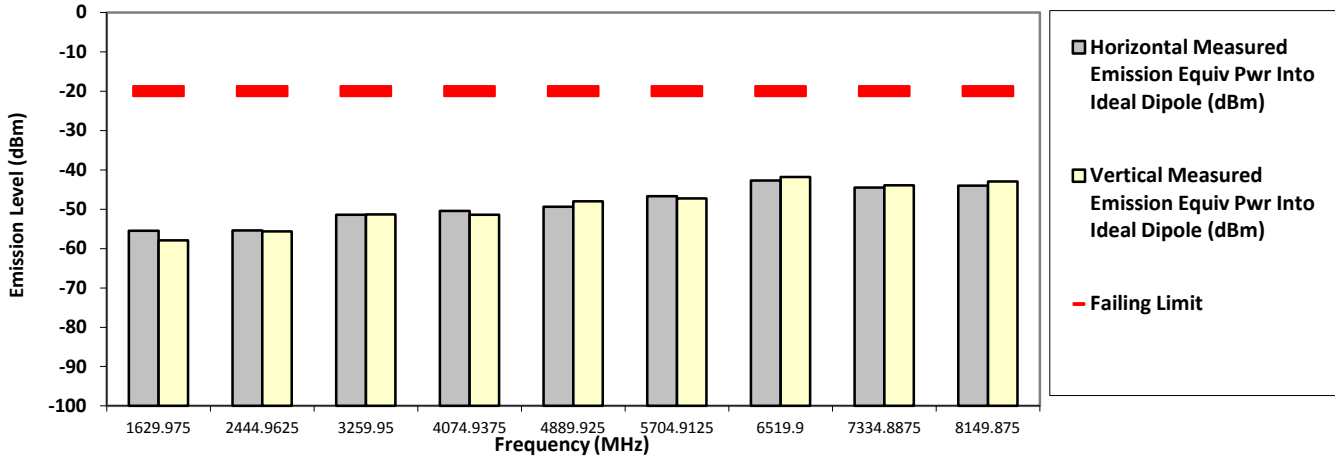
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

814.987500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1629.9750	-20.0000	-55.4728 **	-57.8951 **
2444.9625	-20.0000	-55.3930 **	-55.6297 **
3259.9500	-20.0000	-51.3737 **	-51.3430 **
4074.9375	-20.0000	-50.4689 **	-51.3801 **
4889.9250	-20.0000	-49.3657 **	-47.9575 **
5704.9125	-20.0000	-46.7171 **	-47.2383 **
6519.9000	-20.0000	-42.7142 **	-41.7929 **
7334.8875	-20.0000	-44.4916 **	-43.9623 **
8149.8750	-20.0000	-44.0278 **	-42.9494 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

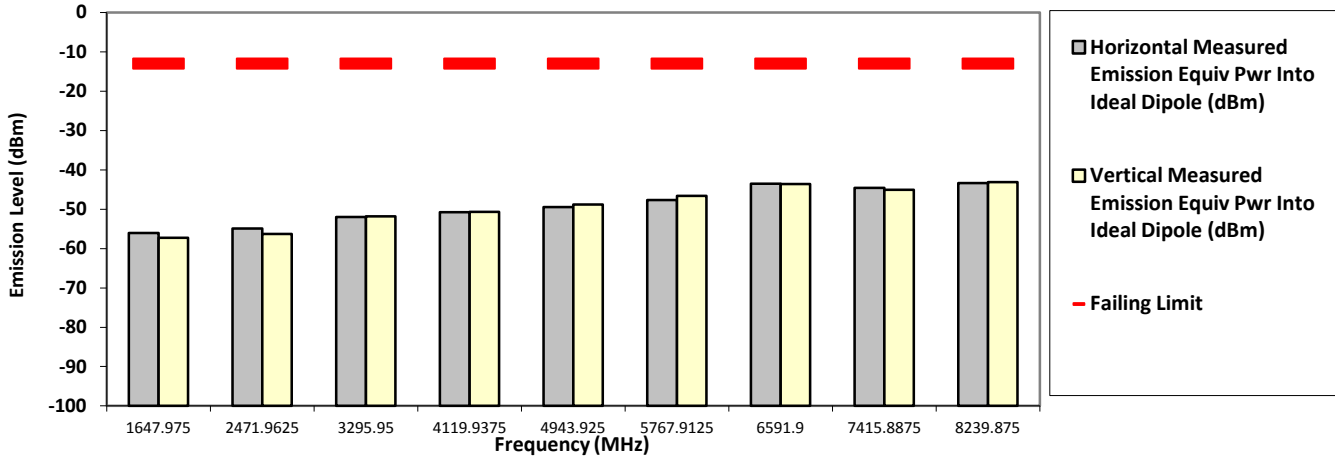
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

823.987500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1647.9750	-13.0000	-56.0481 **	-57.2411 **
2471.9625	-13.0000	-54.8962 **	-56.3155 **
3295.9500	-13.0000	-51.9749 **	-51.7793 **
4119.9375	-13.0000	-50.7931 **	-50.6951 **
4943.9250	-13.0000	-49.4494 **	-48.7678 **
5767.9125	-13.0000	-47.6335 **	-46.5689 **
6591.9000	-13.0000	-43.5506 **	-43.6072 **
7415.8875	-13.0000	-44.5774 **	-45.0409 **
8239.8750	-13.0000	-43.3906 **	-43.1467 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

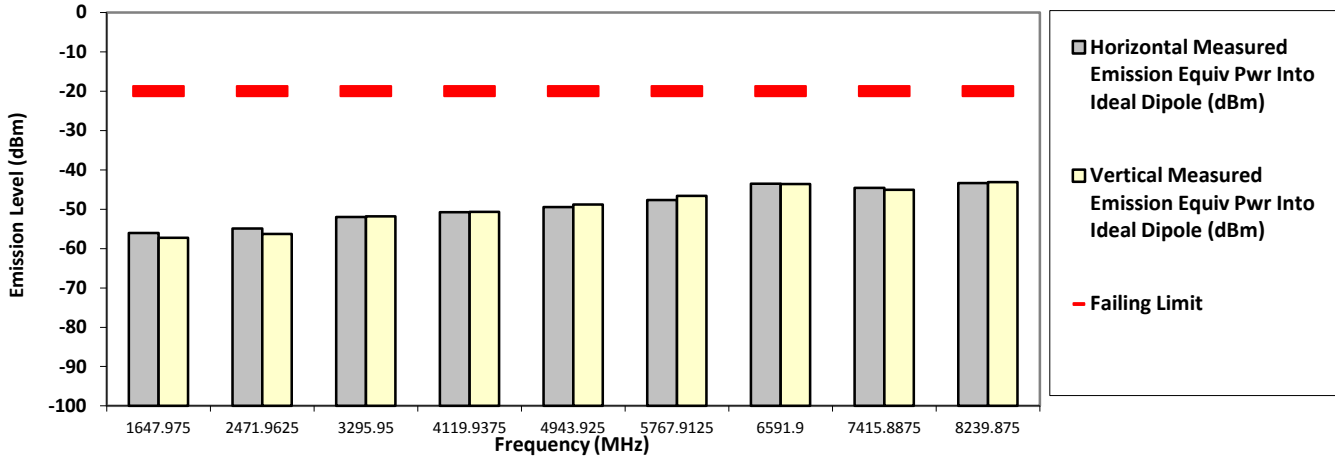
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

823.987500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1647.9750	-20.0000	-56.0481 **	-57.2411 **
2471.9625	-20.0000	-54.8962 **	-56.3155 **
3295.9500	-20.0000	-51.9749 **	-51.7793 **
4119.9375	-20.0000	-50.7931 **	-50.6951 **
4943.9250	-20.0000	-49.4494 **	-48.7678 **
5767.9125	-20.0000	-47.6335 **	-46.5689 **
6591.9000	-20.0000	-43.5506 **	-43.6072 **
7415.8875	-20.0000	-44.5774 **	-45.0409 **
8239.8750	-20.0000	-43.3906 **	-43.1467 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

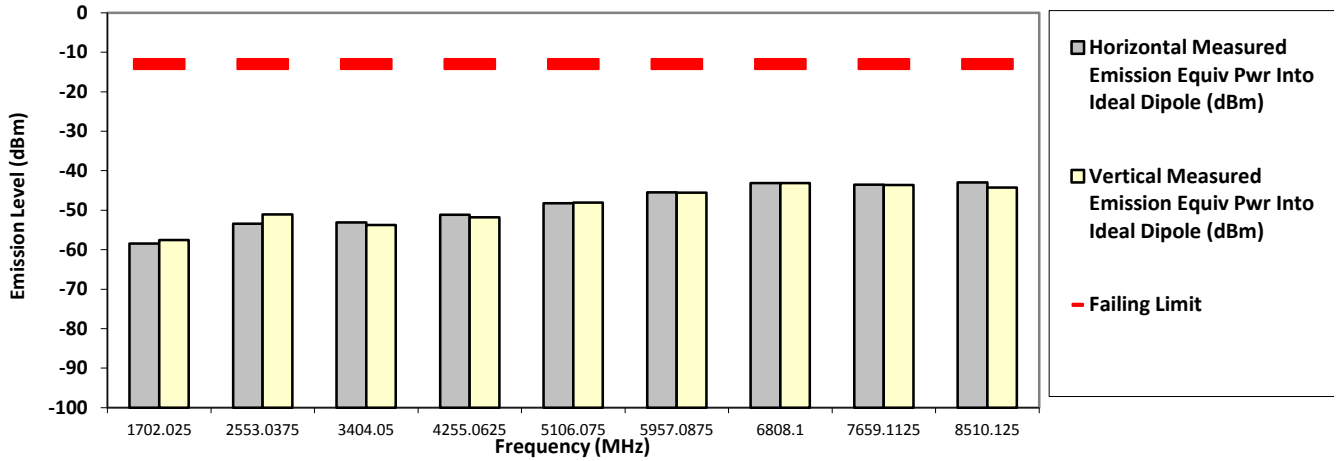
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

851.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1702.0250	-13.0000	-58.4035 **	-57.5238 **
2553.0375	-13.0000	-53.4003 **	-51.0427 **
3404.0500	-13.0000	-53.0829 **	-53.7612 **
4255.0625	-13.0000	-51.1642 **	-51.7839 **
5106.0750	-13.0000	-48.2110 **	-48.0872 **
5957.0875	-13.0000	-45.4504 **	-45.5868 **
6808.1000	-13.0000	-43.1495 **	-43.1097 **
7659.1125	-13.0000	-43.5164 **	-43.6292 **
8510.1250	-13.0000	-42.9522 **	-44.2643 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks: Passed Results | **Marginal Results** | **Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

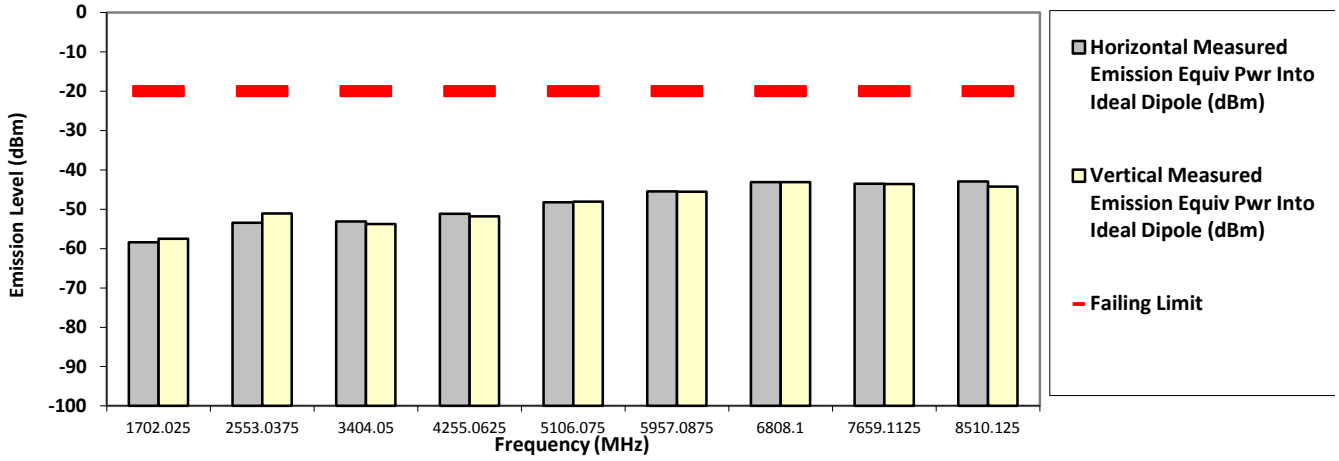
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

851.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1702.0250	-20.0000	-58.4035 **	-57.5238 **
2553.0375	-20.0000	-53.4003 **	-51.0427 **
3404.0500	-20.0000	-53.0829 **	-53.7612 **
4255.0625	-20.0000	-51.1642 **	-51.7839 **
5106.0750	-20.0000	-48.2110 **	-48.0872 **
5957.0875	-20.0000	-45.4504 **	-45.5868 **
6808.1000	-20.0000	-43.1495 **	-43.1097 **
7659.1125	-20.0000	-43.5164 **	-43.6292 **
8510.1250	-20.0000	-42.9522 **	-44.2643 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

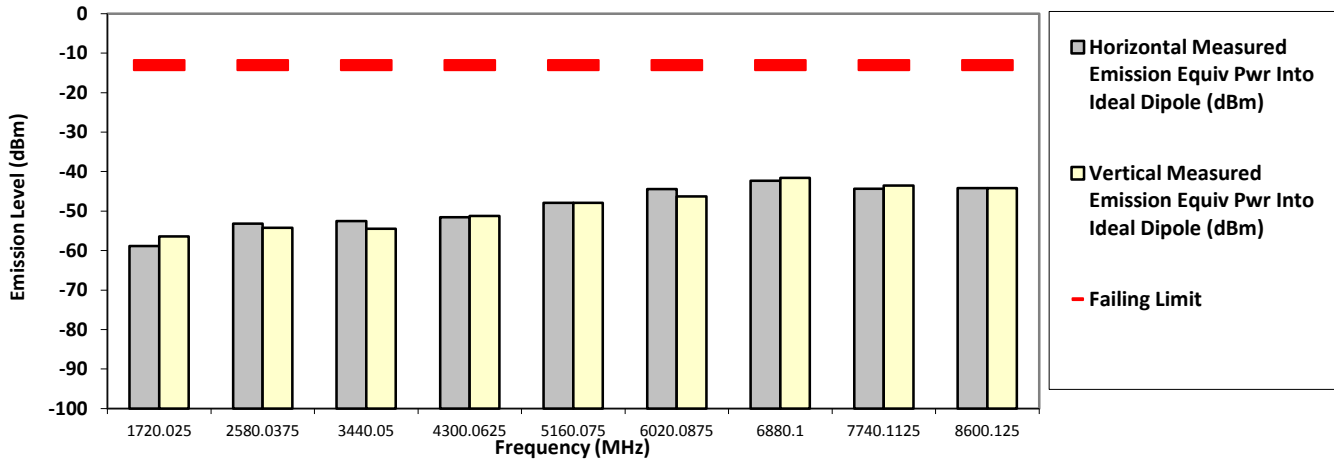
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

860.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1720.0250	-13.0000	-58.8519 **	-56.4009 **
2580.0375	-13.0000	-53.1437 **	-54.2448 **
3440.0500	-13.0000	-52.5288 **	-54.4445 **
4300.0625	-13.0000	-51.5698 **	-51.2073 **
5160.0750	-13.0000	-47.9316 **	-47.8886 **
6020.0875	-13.0000	-44.4293 **	-46.2594 **
6880.1000	-13.0000	-42.3465 **	-41.5869 **
7740.1125	-13.0000	-44.3295 **	-43.5441 **
8600.1250	-13.0000	-44.1979 **	-44.1961 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

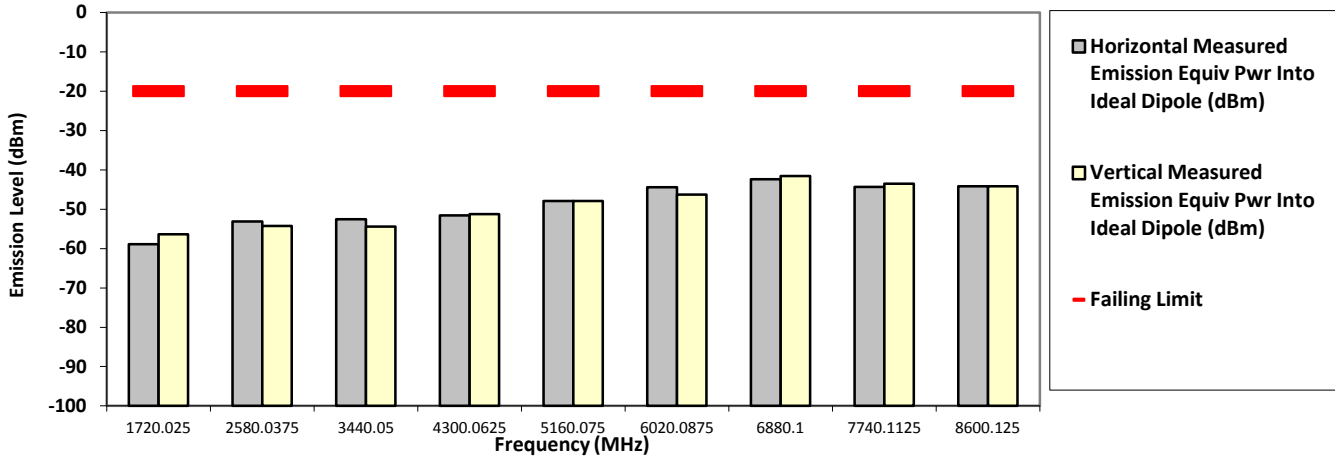
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

860.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1720.0250	-20.0000	-58.8519 **	-56.4009 **
2580.0375	-20.0000	-53.1437 **	-54.2448 **
3440.0500	-20.0000	-52.5288 **	-54.4445 **
4300.0625	-20.0000	-51.5698 **	-51.2073 **
5160.0750	-20.0000	-47.9316 **	-47.8886 **
6020.0875	-20.0000	-44.4293 **	-46.2594 **
6880.1000	-20.0000	-42.3465 **	-41.5869 **
7740.1125	-20.0000	-44.3295 **	-43.5441 **
8600.1250	-20.0000	-44.1979 **	-44.1961 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

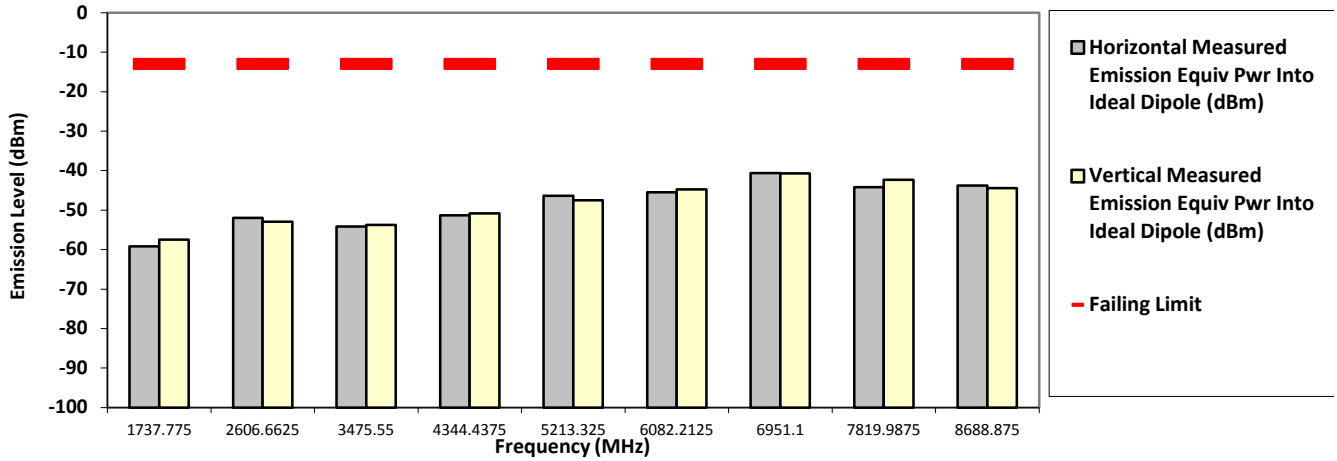
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

868.887500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1737.7750	-13.0000	-59.1861 **	-57.4457 **
2606.6625	-13.0000	-51.9452 **	-52.9371 **
3475.5500	-13.0000	-54.1164 **	-53.7225 **
4344.4375	-13.0000	-51.2903 **	-50.8533 **
5213.3250	-13.0000	-46.3436 **	-47.5273 **
6082.2125	-13.0000	-45.4363 **	-44.7345 **
6951.1000	-13.0000	-40.6098 **	-40.7008 **
7819.9875	-13.0000	-44.2039 **	-42.3363 **
8688.8750	-13.0000	-43.7954 **	-44.4011 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

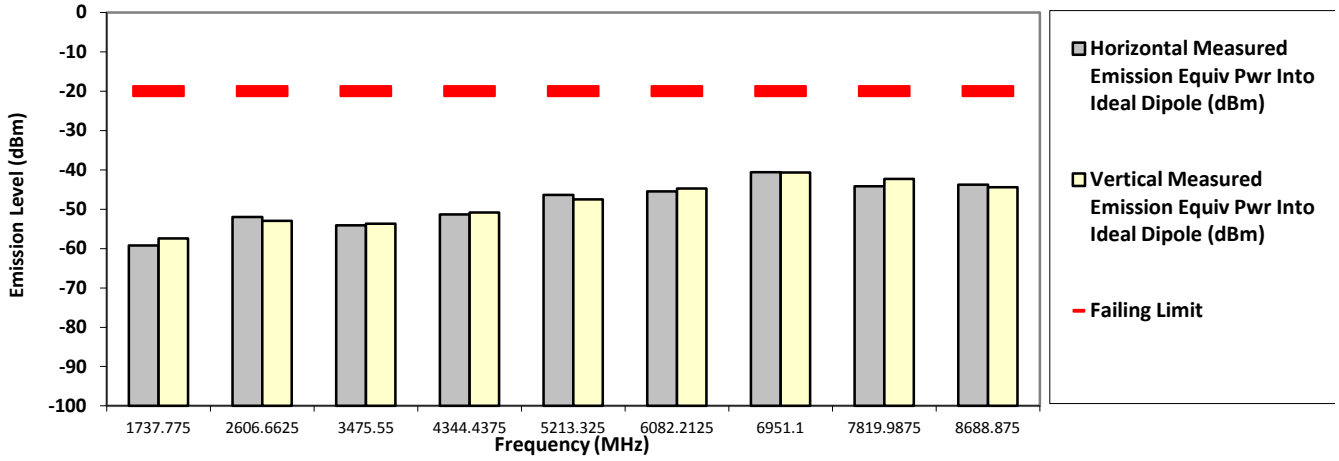
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX C4FM

868.887500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1737.7750	-20.0000	-59.1861 **	-57.4457 **
2606.6625	-20.0000	-51.9452 **	-52.9371 **
3475.5500	-20.0000	-54.1164 **	-53.7225 **
4344.4375	-20.0000	-51.2903 **	-50.8533 **
5213.3250	-20.0000	-46.3436 **	-47.5273 **
6082.2125	-20.0000	-45.4363 **	-44.7345 **
6951.1000	-20.0000	-40.6098 **	-40.7008 **
7819.9875	-20.0000	-44.2039 **	-42.3363 **
8688.8750	-20.0000	-43.7954 **	-44.4011 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

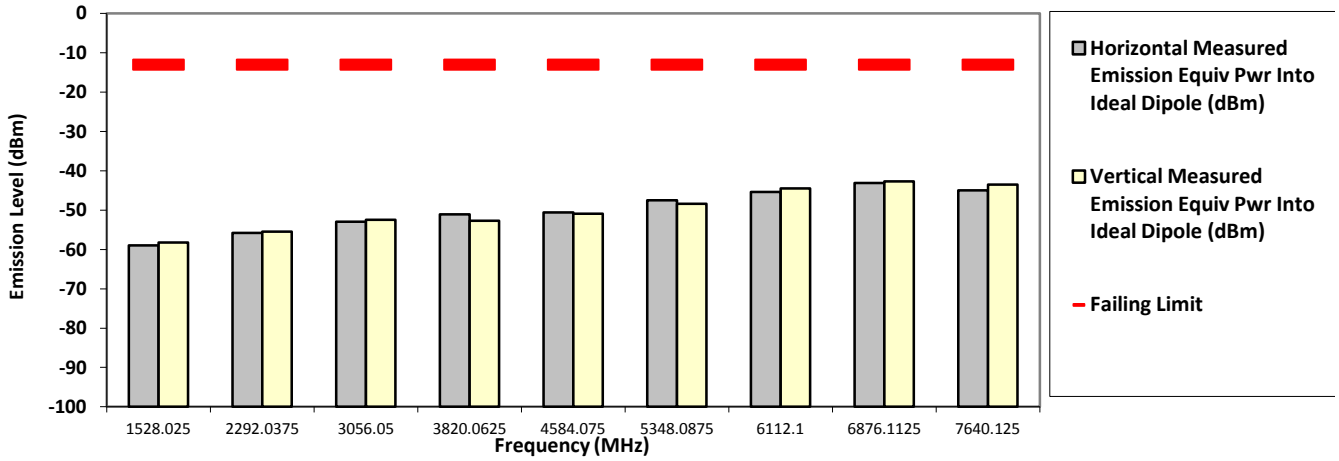
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

764.012500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1528.0250	-13.0000	-58.9481 **	-58.2524 **
2292.0375	-13.0000	-55.7975 **	-55.4979 **
3056.0500	-13.0000	-52.9523 **	-52.4994 **
3820.0625	-13.0000	-51.0468 **	-52.7312 **
4584.0750	-13.0000	-50.5630 **	-50.8996 **
5348.0875	-13.0000	-47.5276 **	-48.4292 **
6112.1000	-13.0000	-45.3513 **	-44.4971 **
6876.1125	-13.0000	-43.1005 **	-42.7340 **
7640.1250	-13.0000	-44.9724 **	-43.5222 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

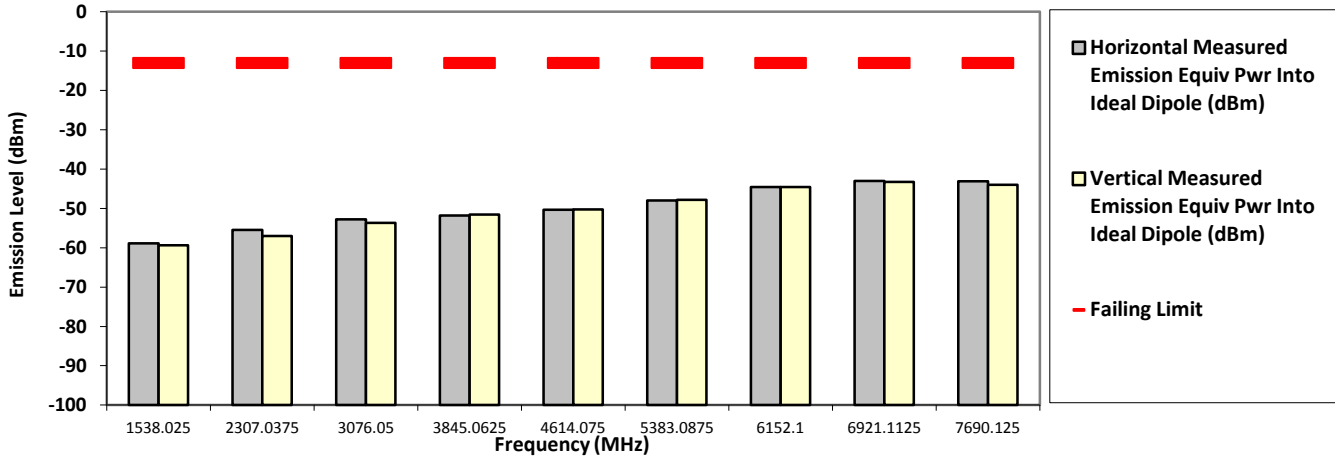
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

769.012500 MHz **12.5 kHz** **2.000 Watt(s)**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.0250	-13.0000	-58.9301 **	-59.3375 **
2307.0375	-13.0000	-55.4890 **	-56.9897 **
3076.0500	-13.0000	-52.7969 **	-53.6645 **
3845.0625	-13.0000	-51.8086 **	-51.6041 **
4614.0750	-13.0000	-50.3805 **	-50.2679 **
5383.0875	-13.0000	-47.9892 **	-47.8564 **
6152.1000	-13.0000	-44.5985 **	-44.5592 **
6921.1125	-13.0000	-43.0542 **	-43.2867 **
7690.1250	-13.0000	-43.1485 **	-44.0428 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

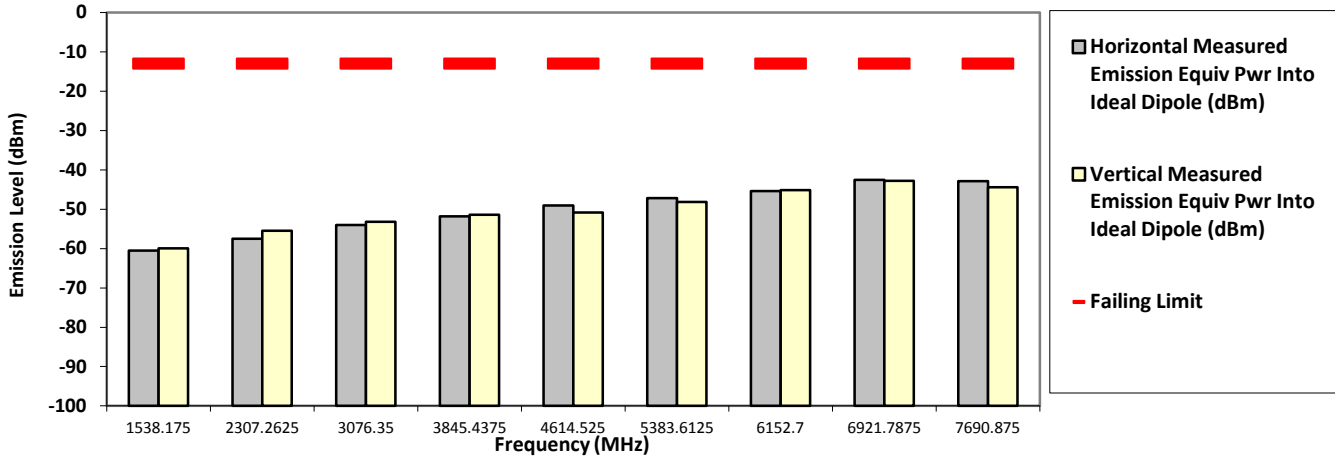
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

769.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.1750	-13.0000	-60.5032 **	-59.9198 **
2307.2625	-13.0000	-57.5101 **	-55.4631 **
3076.3500	-13.0000	-54.0490 **	-53.1685 **
3845.4375	-13.0000	-51.7899 **	-51.3703 **
4614.5250	-13.0000	-49.0482 **	-50.8018 **
5383.6125	-13.0000	-47.2098 **	-48.1357 **
6152.7000	-13.0000	-45.3910 **	-45.1076 **
6921.7875	-13.0000	-42.5280 **	-42.7934 **
7690.8750	-13.0000	-42.8815 **	-44.4096 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

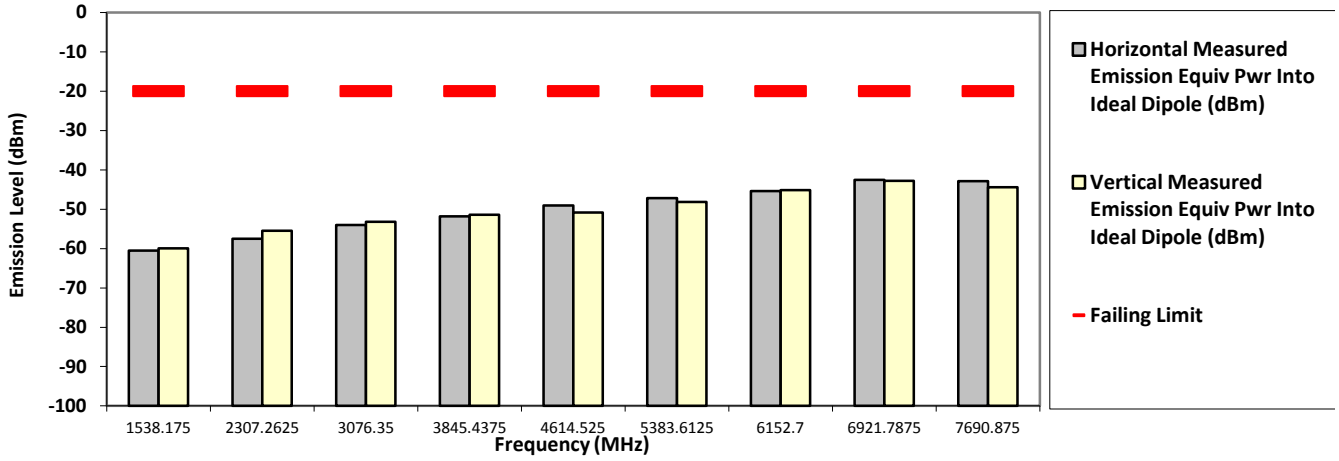
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

769.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1538.1750	-20.0000	-60.5032 **	-59.9198 **
2307.2625	-20.0000	-57.5101 **	-55.4631 **
3076.3500	-20.0000	-54.0490 **	-53.1685 **
3845.4375	-20.0000	-51.7899 **	-51.3703 **
4614.5250	-20.0000	-49.0482 **	-50.8018 **
5383.6125	-20.0000	-47.2098 **	-48.1357 **
6152.7000	-20.0000	-45.3910 **	-45.1076 **
6921.7875	-20.0000	-42.5280 **	-42.7934 **
7690.8750	-20.0000	-42.8815 **	-44.4096 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

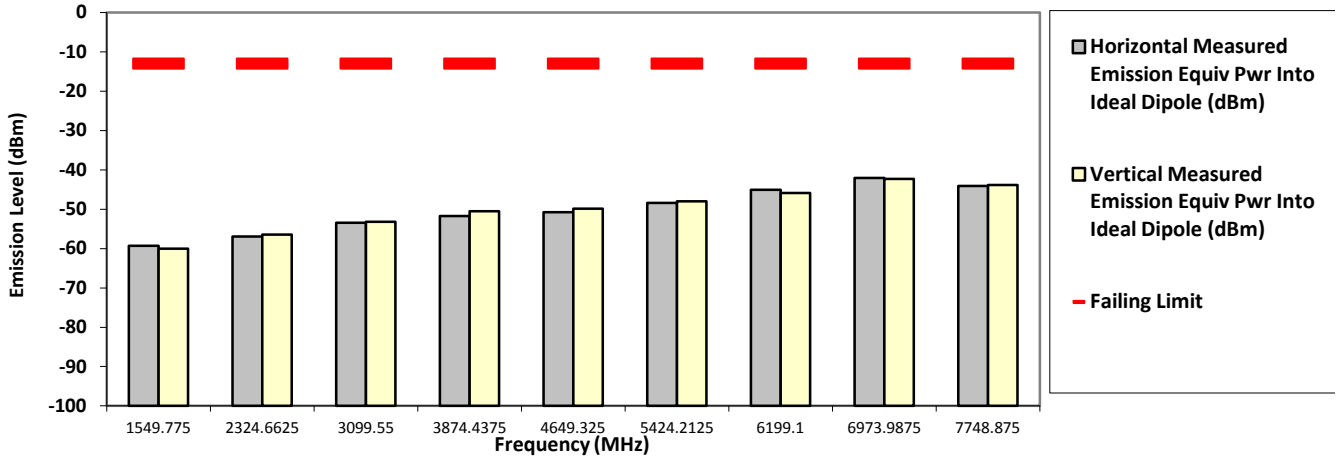
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

774.887500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1549.7750	-13.0000	-59.2639 **	-60.0142 **
2324.6625	-13.0000	-56.9614 **	-56.4442 **
3099.5500	-13.0000	-53.4343 **	-53.1827 **
3874.4375	-13.0000	-51.7386 **	-50.4940 **
4649.3250	-13.0000	-50.7256 **	-49.8357 **
5424.2125	-13.0000	-48.3862 **	-48.0112 **
6199.1000	-13.0000	-45.0655 **	-45.8650 **
6973.9875	-13.0000	-42.0578 **	-42.2883 **
7748.8750	-13.0000	-44.0819 **	-43.8623 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

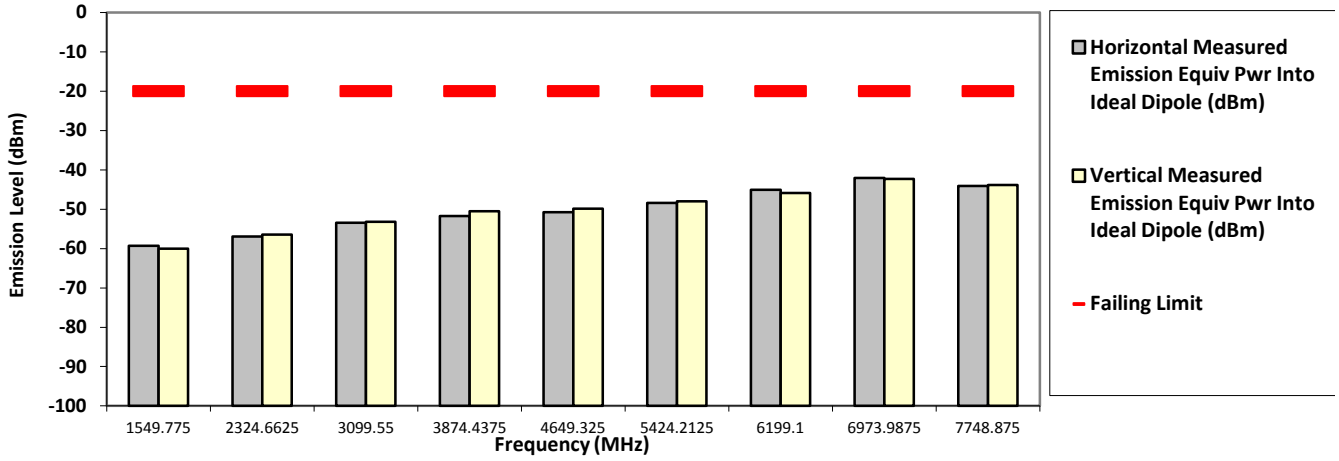
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

774.887500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1549.7750	-20.0000	-59.2639 **	-60.0142 **
2324.6625	-20.0000	-56.9614 **	-56.4442 **
3099.5500	-20.0000	-53.4343 **	-53.1827 **
3874.4375	-20.0000	-51.7386 **	-50.4940 **
4649.3250	-20.0000	-50.7256 **	-49.8357 **
5424.2125	-20.0000	-48.3862 **	-48.0112 **
6199.1000	-20.0000	-45.0655 **	-45.8650 **
6973.9875	-20.0000	-42.0578 **	-42.2883 **
7748.8750	-20.0000	-44.0819 **	-43.8623 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

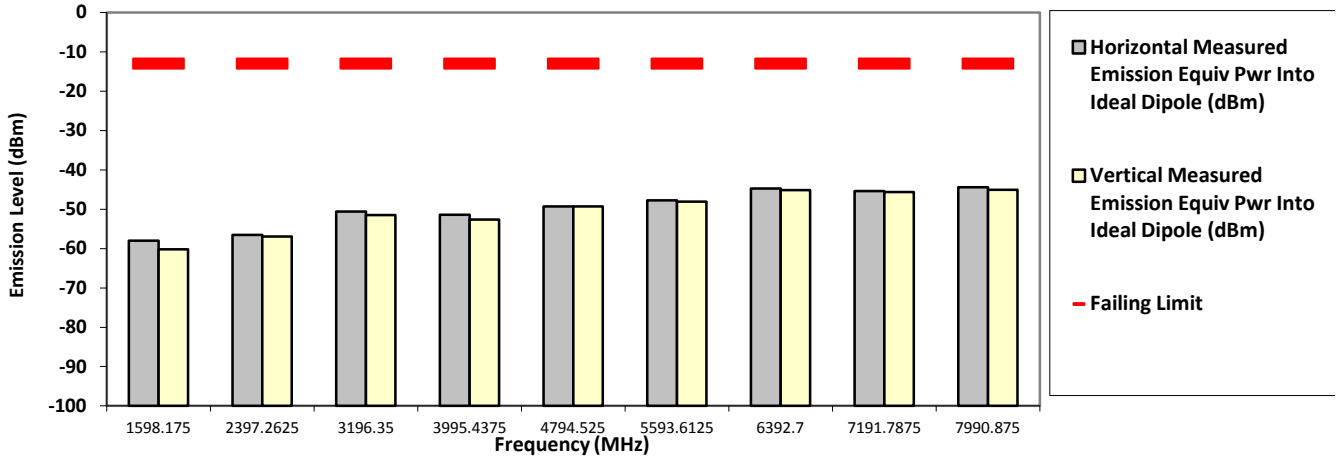
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

799.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1598.1750	-13.0000	-57.9688 **	-60.1600 **
2397.2625	-13.0000	-56.5010 **	-56.9722 **
3196.3500	-13.0000	-50.5598 **	-51.4602 **
3995.4375	-13.0000	-51.4126 **	-52.6578 **
4794.5250	-13.0000	-49.3012 **	-49.2545 **
5593.6125	-13.0000	-47.7697 **	-48.0570 **
6392.7000	-13.0000	-44.7650 **	-45.1370 **
7191.7875	-13.0000	-45.4222 **	-45.6193 **
7990.8750	-13.0000	-44.4123 **	-45.0934 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

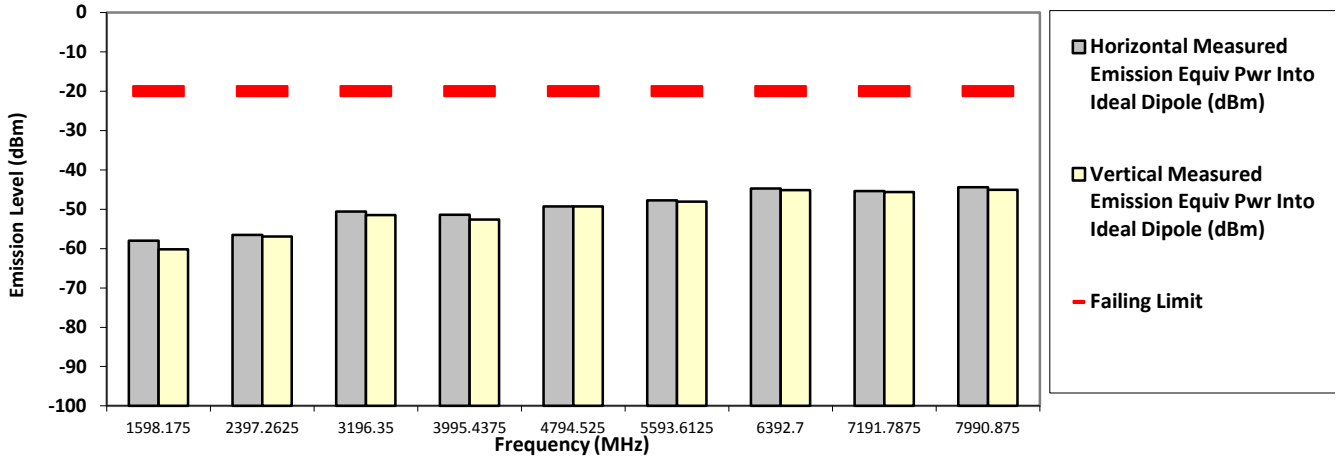
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

799.087500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1598.1750	-20.0000	-57.9688 **	-60.1600 **
2397.2625	-20.0000	-56.5010 **	-56.9722 **
3196.3500	-20.0000	-50.5598 **	-51.4602 **
3995.4375	-20.0000	-51.4126 **	-52.6578 **
4794.5250	-20.0000	-49.3012 **	-49.2545 **
5593.6125	-20.0000	-47.7697 **	-48.0570 **
6392.7000	-20.0000	-44.7650 **	-45.1370 **
7191.7875	-20.0000	-45.4222 **	-45.6193 **
7990.8750	-20.0000	-44.4123 **	-45.0934 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

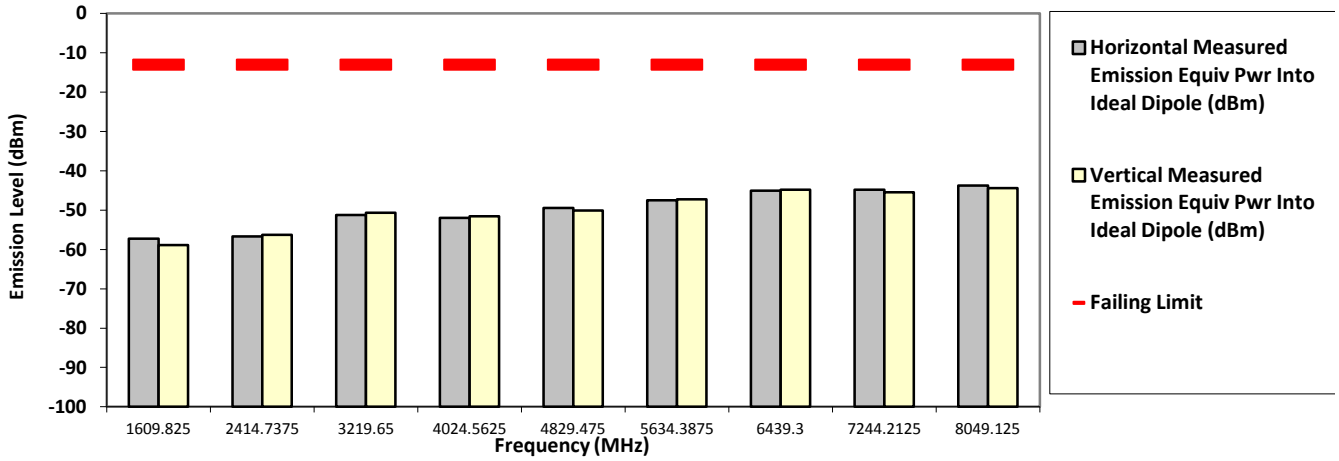
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

804.912500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1609.8250	-13.0000	-57.2428 **	-58.8600 **
2414.7375	-13.0000	-56.7238 **	-56.2528 **
3219.6500	-13.0000	-51.2568 **	-50.7010 **
4024.5625	-13.0000	-51.9747 **	-51.5927 **
4829.4750	-13.0000	-49.4772 **	-50.1147 **
5634.3875	-13.0000	-47.5255 **	-47.2975 **
6439.3000	-13.0000	-45.0752 **	-44.8493 **
7244.2125	-13.0000	-44.7831 **	-45.5052 **
8049.1250	-13.0000	-43.7862 **	-44.4223 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

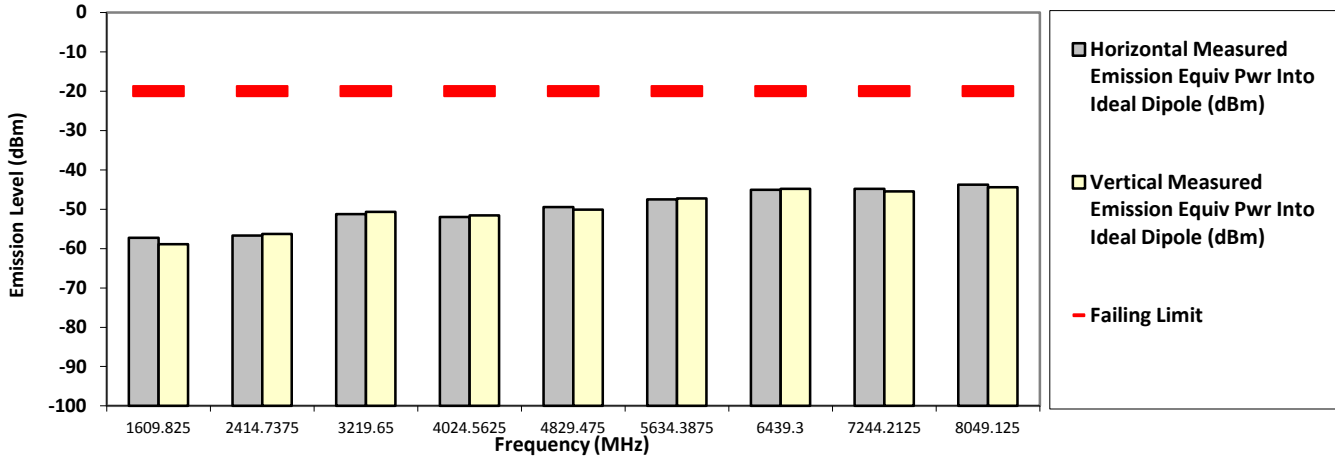
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

804.912500 MHz **12.5 kHz** **2.990 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1609.8250	-20.0000	-57.2428 **	-58.8600 **
2414.7375	-20.0000	-56.7238 **	-56.2528 **
3219.6500	-20.0000	-51.2568 **	-50.7010 **
4024.5625	-20.0000	-51.9747 **	-51.5927 **
4829.4750	-20.0000	-49.4772 **	-50.1147 **
5634.3875	-20.0000	-47.5255 **	-47.2975 **
6439.3000	-20.0000	-45.0752 **	-44.8493 **
7244.2125	-20.0000	-44.7831 **	-45.5052 **
8049.1250	-20.0000	-43.7862 **	-44.4223 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

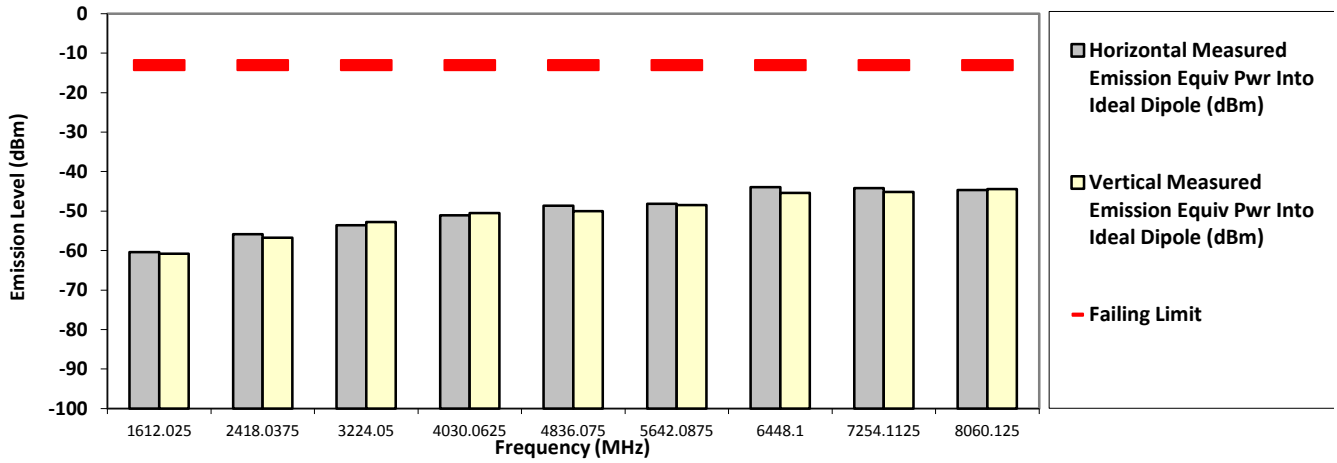
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

806.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1612.0250	-13.0000	-60.3980 **	-60.7620 **
2418.0375	-13.0000	-55.8645 **	-56.6976 **
3224.0500	-13.0000	-53.6151 **	-52.7660 **
4030.0625	-13.0000	-51.0241 **	-50.5106 **
4836.0750	-13.0000	-48.6221 **	-50.0071 **
5642.0875	-13.0000	-48.1126 **	-48.5023 **
6448.1000	-13.0000	-43.9283 **	-45.3989 **
7254.1125	-13.0000	-44.2155 **	-45.1830 **
8060.1250	-13.0000	-44.6888 **	-44.4307 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

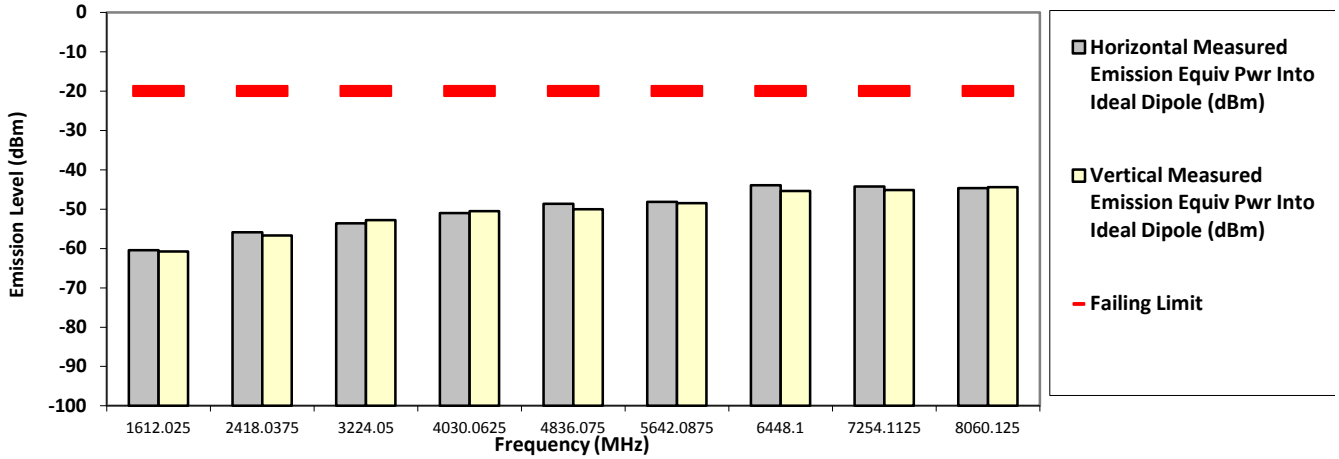
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

806.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1612.0250	-20.0000	-60.3980 **	-60.7620 **
2418.0375	-20.0000	-55.8645 **	-56.6976 **
3224.0500	-20.0000	-53.6151 **	-52.7660 **
4030.0625	-20.0000	-51.0241 **	-50.5106 **
4836.0750	-20.0000	-48.6221 **	-50.0071 **
5642.0875	-20.0000	-48.1126 **	-48.5023 **
6448.1000	-20.0000	-43.9283 **	-45.3989 **
7254.1125	-20.0000	-44.2155 **	-45.1830 **
8060.1250	-20.0000	-44.6888 **	-44.4307 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

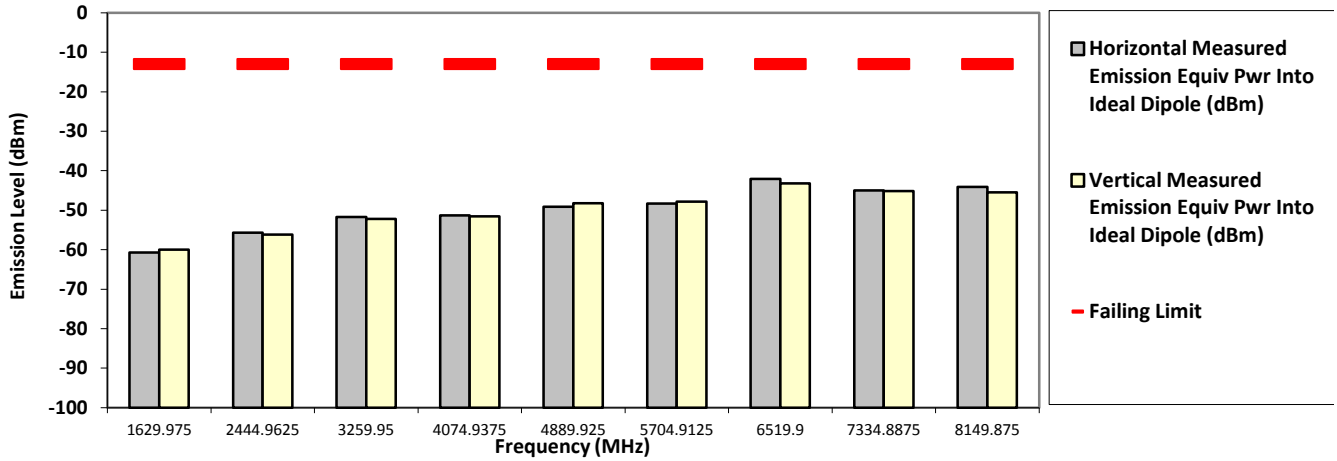
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

814.987500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1629.9750	-13.0000	-60.6828 **	-59.9956 **
2444.9625	-13.0000	-55.7159 **	-56.1507 **
3259.9500	-13.0000	-51.7281 **	-52.1860 **
4074.9375	-13.0000	-51.2873 **	-51.5856 **
4889.9250	-13.0000	-49.1541 **	-48.2496 **
5704.9125	-13.0000	-48.3062 **	-47.8170 **
6519.9000	-13.0000	-42.0964 **	-43.2383 **
7334.8875	-13.0000	-44.9830 **	-45.1343 **
8149.8750	-13.0000	-44.0877 **	-45.4526 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

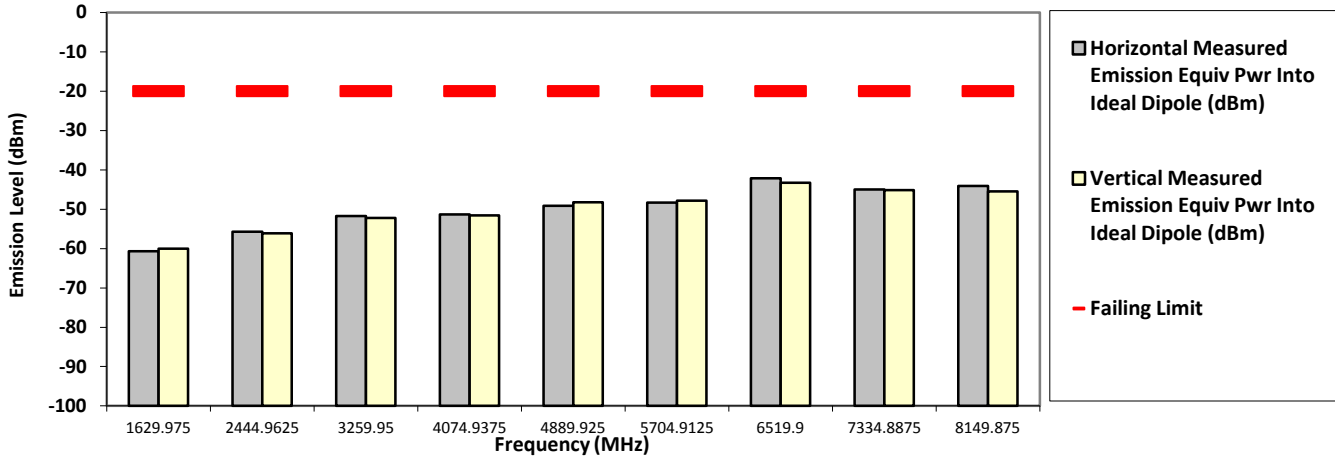
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

814.987500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1629.9750	-20.0000	-60.6828 **	-59.9956 **
2444.9625	-20.0000	-55.7159 **	-56.1507 **
3259.9500	-20.0000	-51.7281 **	-52.1860 **
4074.9375	-20.0000	-51.2873 **	-51.5856 **
4889.9250	-20.0000	-49.1541 **	-48.2496 **
5704.9125	-20.0000	-48.3062 **	-47.8170 **
6519.9000	-20.0000	-42.0964 **	-43.2383 **
7334.8875	-20.0000	-44.9830 **	-45.1343 **
8149.8750	-20.0000	-44.0877 **	-45.4526 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

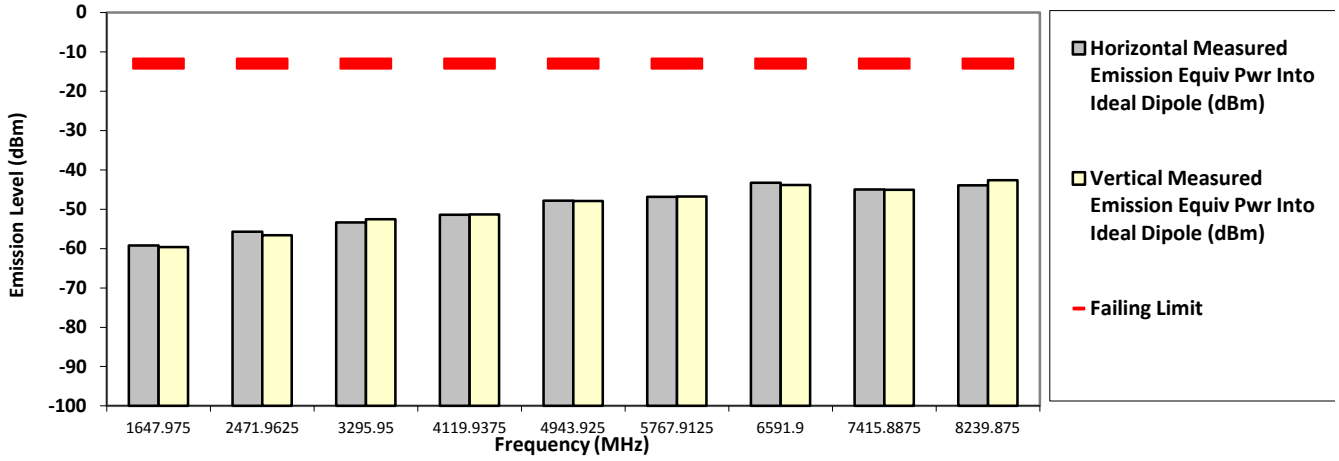
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

823.987500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1647.9750	-13.0000	-59.2046 **	-59.5948 **
2471.9625	-13.0000	-55.7440 **	-56.6502 **
3295.9500	-13.0000	-53.3979 **	-52.5058 **
4119.9375	-13.0000	-51.3928 **	-51.3094 **
4943.9250	-13.0000	-47.8568 **	-47.9245 **
5767.9125	-13.0000	-46.8539 **	-46.8050 **
6591.9000	-13.0000	-43.2719 **	-43.8020 **
7415.8875	-13.0000	-44.9434 **	-45.0779 **
8239.8750	-13.0000	-43.9252 **	-42.6602 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

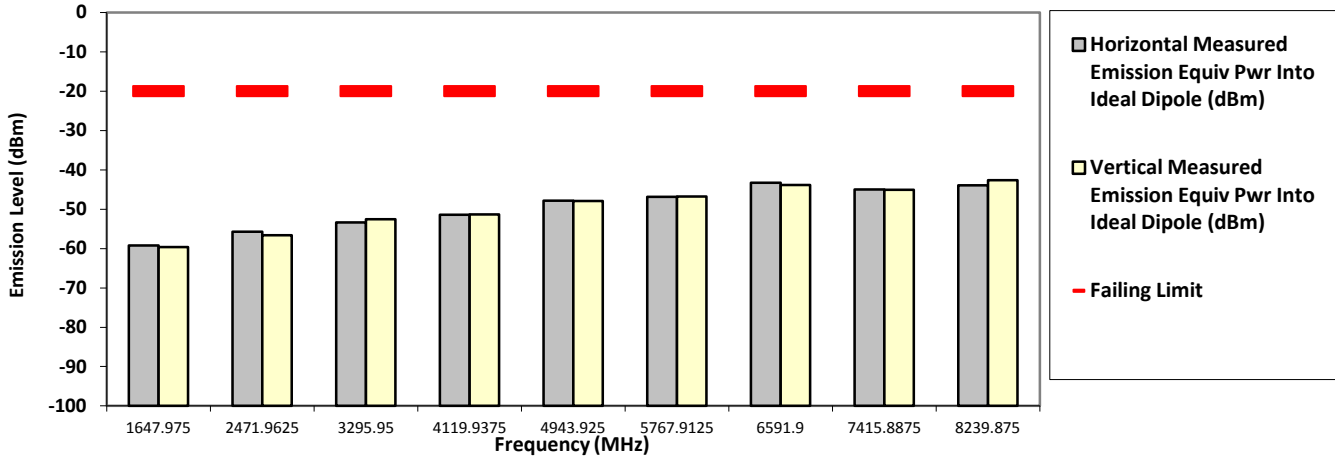
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

823.987500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1647.9750	-20.0000	-59.2046 **	-59.5948 **
2471.9625	-20.0000	-55.7440 **	-56.6502 **
3295.9500	-20.0000	-53.3979 **	-52.5058 **
4119.9375	-20.0000	-51.3928 **	-51.3094 **
4943.9250	-20.0000	-47.8568 **	-47.9245 **
5767.9125	-20.0000	-46.8539 **	-46.8050 **
6591.9000	-20.0000	-43.2719 **	-43.8020 **
7415.8875	-20.0000	-44.9434 **	-45.0779 **
8239.8750	-20.0000	-43.9252 **	-42.6602 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

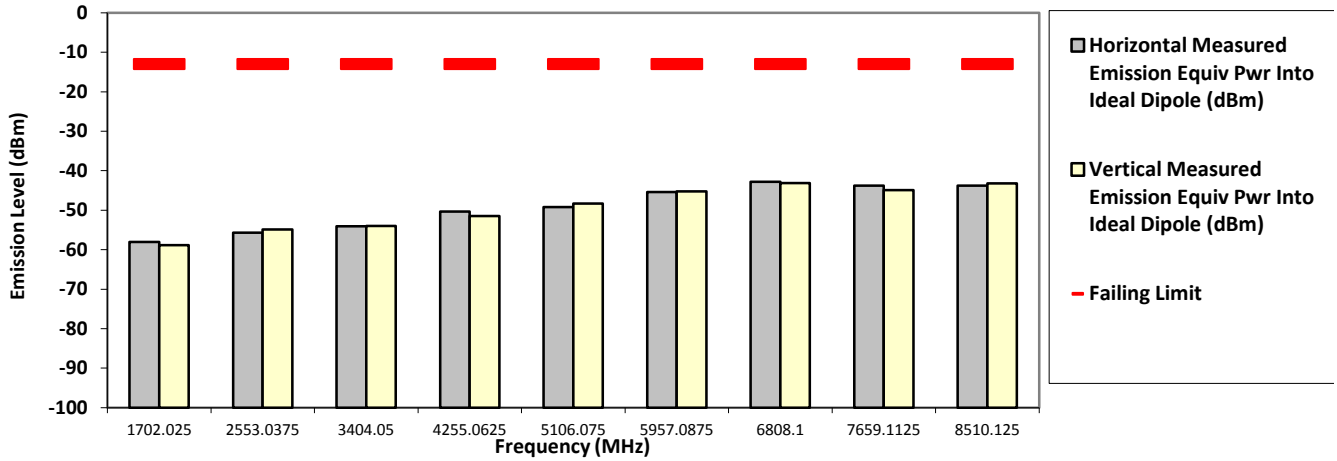
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

851.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1702.0250	-13.0000	-58.0532 **	-58.8512 **
2553.0375	-13.0000	-55.6522 **	-54.8405 **
3404.0500	-13.0000	-54.0751 **	-53.9466 **
4255.0625	-13.0000	-50.3565 **	-51.4668 **
5106.0750	-13.0000	-49.1782 **	-48.3128 **
5957.0875	-13.0000	-45.4319 **	-45.2628 **
6808.1000	-13.0000	-42.8197 **	-43.1128 **
7659.1125	-13.0000	-43.7550 **	-44.9014 **
8510.1250	-13.0000	-43.7322 **	-43.1919 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks: Passed Results | **Marginal Results** | **Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

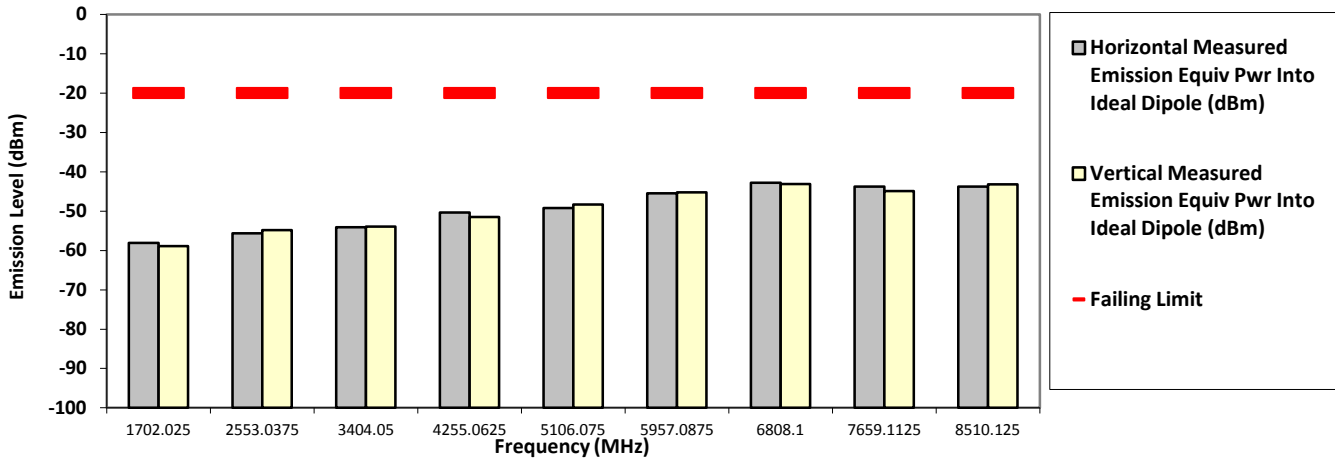
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

851.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1702.0250	-20.0000	-58.0532 **	-58.8512 **
2553.0375	-20.0000	-55.6522 **	-54.8405 **
3404.0500	-20.0000	-54.0751 **	-53.9466 **
4255.0625	-20.0000	-50.3565 **	-51.4668 **
5106.0750	-20.0000	-49.1782 **	-48.3128 **
5957.0875	-20.0000	-45.4319 **	-45.2628 **
6808.1000	-20.0000	-42.8197 **	-43.1128 **
7659.1125	-20.0000	-43.7550 **	-44.9014 **
8510.1250	-20.0000	-43.7322 **	-43.1919 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

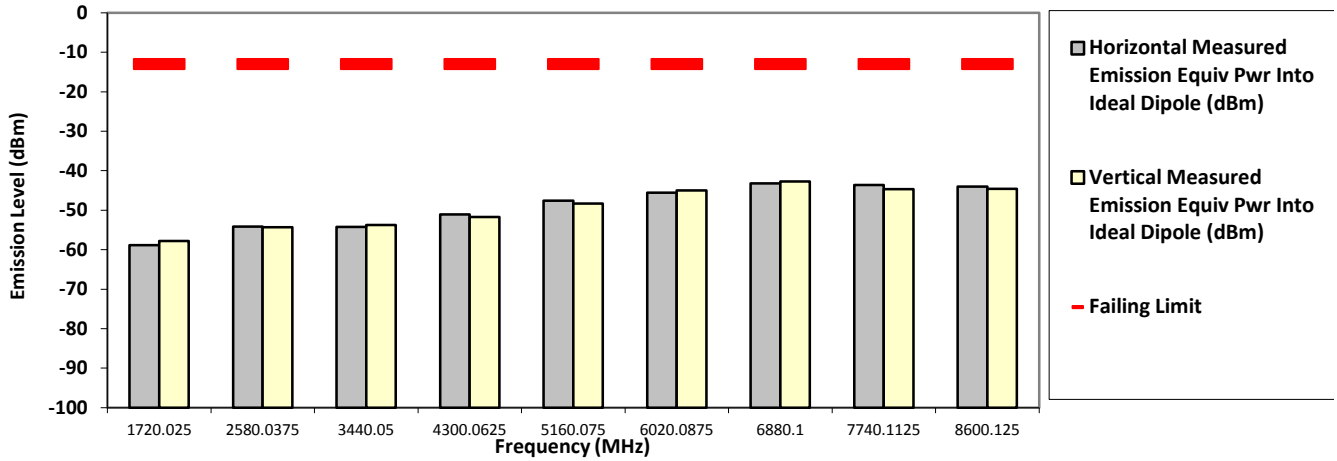
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

860.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1720.0250	-13.0000	-58.8813 **	-57.7553 **
2580.0375	-13.0000	-54.1539 **	-54.2941 **
3440.0500	-13.0000	-54.2289 **	-53.7184 **
4300.0625	-13.0000	-51.0304 **	-51.6920 **
5160.0750	-13.0000	-47.5876 **	-48.3356 **
6020.0875	-13.0000	-45.5376 **	-45.0250 **
6880.1000	-13.0000	-43.2059 **	-42.7450 **
7740.1125	-13.0000	-43.6421 **	-44.6860 **
8600.1250	-13.0000	-44.0240 **	-44.5448 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks: Passed Results | **Marginal Results** | **Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

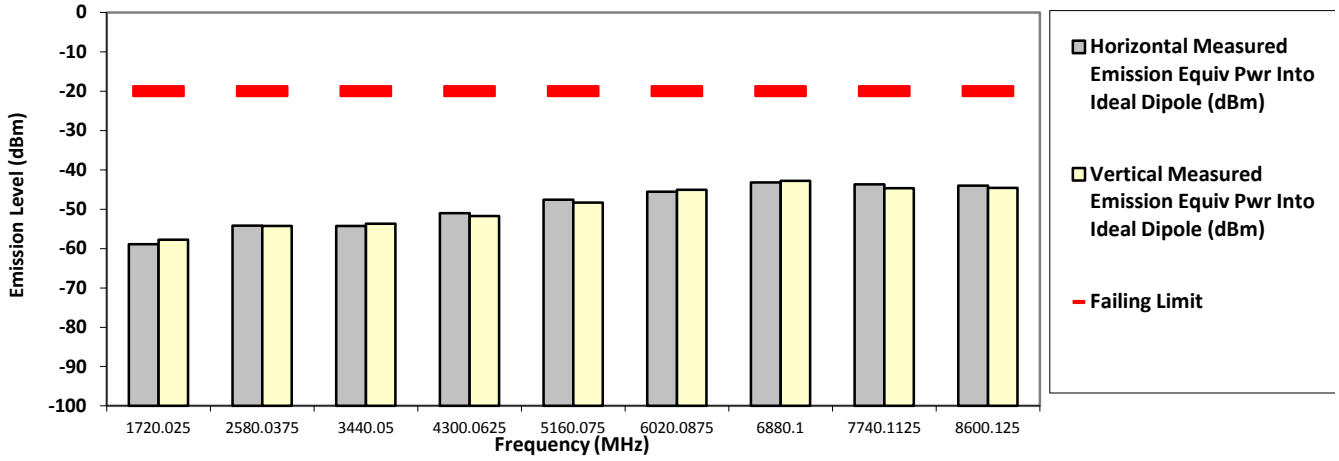
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

860.012500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1720.0250	-20.0000	-58.8813 **	-57.7553 **
2580.0375	-20.0000	-54.1539 **	-54.2941 **
3440.0500	-20.0000	-54.2289 **	-53.7184 **
4300.0625	-20.0000	-51.0304 **	-51.6920 **
5160.0750	-20.0000	-47.5876 **	-48.3356 **
6020.0875	-20.0000	-45.5376 **	-45.0250 **
6880.1000	-20.0000	-43.2059 **	-42.7450 **
7740.1125	-20.0000	-43.6421 **	-44.6860 **
8600.1250	-20.0000	-44.0240 **	-44.5448 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

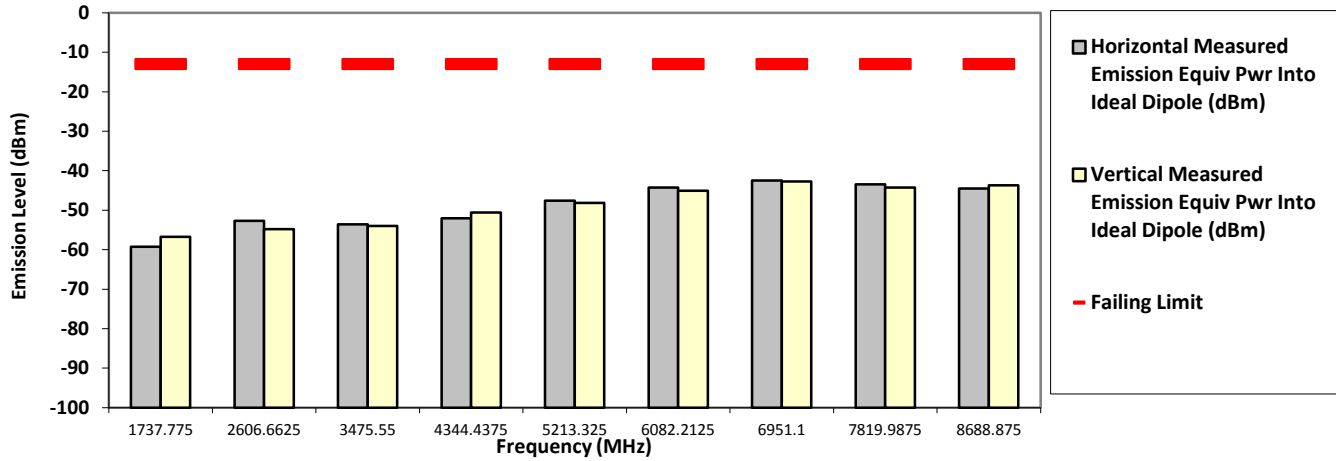
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

868.887500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1737.7750	-13.0000	-59.2484 **	-56.7178 **
2606.6625	-13.0000	-52.6896 **	-54.7844 **
3475.5500	-13.0000	-53.5379 **	-53.9535 **
4344.4375	-13.0000	-52.0254 **	-50.5911 **
5213.3250	-13.0000	-47.6150 **	-48.1173 **
6082.2125	-13.0000	-44.2236 **	-45.0437 **
6951.1000	-13.0000	-42.5137 **	-42.7162 **
7819.9875	-13.0000	-43.4137 **	-44.2602 **
8688.8750	-13.0000	-44.5153 **	-43.7106 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

SAC Transmitter Radiated Emission

Model #: H92UCH9PW7AN **S/N: 837TSX0488** **SR:06481-EMC-00011**

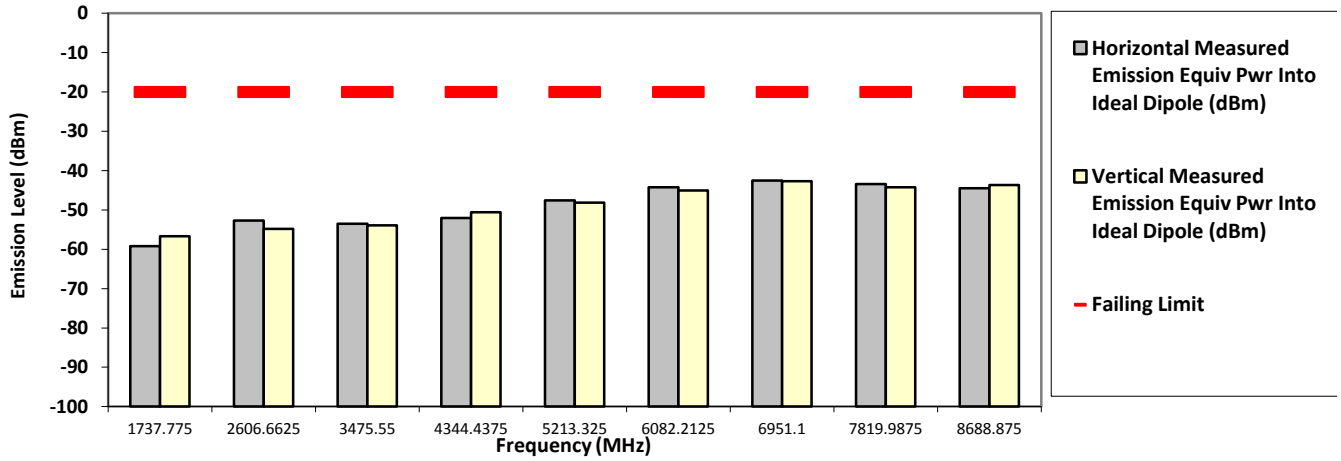
Battery Part No: PMNN4493A **Accy Part No: NA**

Test Mode: TX Phase II

868.887500 MHz **12.5 kHz** **3.600 Watt(s) /Max Power**

Frequency (MHz)	Failing Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1737.7750	-20.0000	-59.2484 **	-56.7178 **
2606.6625	-20.0000	-52.6896 **	-54.7844 **
3475.5500	-20.0000	-53.5379 **	-53.9535 **
4344.4375	-20.0000	-52.0254 **	-50.5911 **
5213.3250	-20.0000	-47.6150 **	-48.1173 **
6082.2125	-20.0000	-44.2236 **	-45.0437 **
6951.1000	-20.0000	-42.5137 **	-42.7162 **
7819.9875	-20.0000	-43.4137 **	-44.2602 **
8688.8750	-20.0000	-44.5153 **	-43.7106 **

RADIATED SPURIOUS EMISSIONS



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

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman **Tue, Dec 06, 2016**

FCC Registration: 772092 **Industry Canada: 109AK**

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported**

Temp(Deg): 24.5 Hum(%RH): 70.5

System MU: 5.01 dB

Remarks:

Passed Results	**Marginal Results**	**Failed Results**

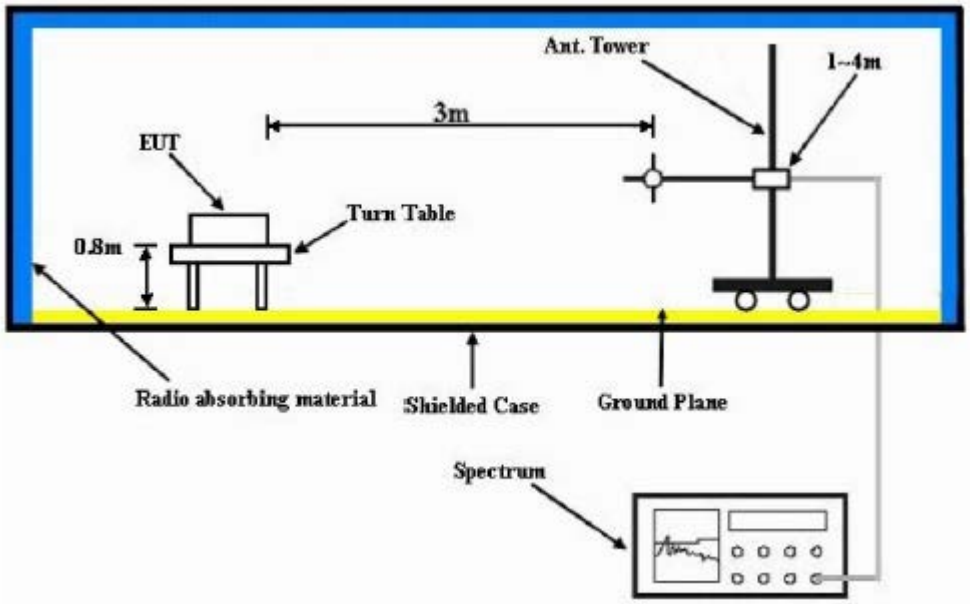
6.11.2. Test Limit

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
12.5kHz	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	Not Applicable	50 + log10(P) (-20 dBm)
25kHz		Not Applicable		43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)

6.12. Effective Radiated Power (ERP) / GNSS (EIRP for 1559 - 1610MHz)

6.12.1. Test Setup



1) The spectrum setting for Equivalent Isotropically Radiated Power (EIRP) is RBW = 100 kHz, VBW = 300 kHz. Detector Mode is RMS. For measurements above 1GHz, set RBW = 1MHz and VBW = 3MHz.
2) In the semi-anechoic chamber, setup as illustrated above the EUT 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 EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
4) EIRP = "Read Value" + Measured substitution value + 2.15.

6.12.2. Test Result

EIRP/ERP

S/N: 837TSX0488 **Tx Power: 2.000 Watts**
Channel Spacing : 12.5 kHz **Modulation: FM**
Accessory: PMAF4022A

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	769.0125	20.53	18.38
Vert.	769.0125	32.72	30.57

EIRP/ERP

S/N: 837TSX0488 **Tx Power: 2.990 Watts**
Channel Spacing : 12.5 kHz **Modulation: FM**
Accessory: PMAF4022A

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	769.0875	21.28	19.13
Vert.	769.0875	34.09	31.94

EIRP/ERP

S/N: 837TSX0488 **Tx Power: 2.000 Watts**
Channel Spacing : 12.5 kHz **Modulation: FM**
Accessory: PMAF4022A

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	799.0125	21.88	19.73
Vert.	799.0125	32.19	30.04

EIRP/ERP

S/N: 837TSX0488 **Tx Power: 2.990 Watts**
Channel Spacing : 12.5 kHz **Modulation: FM**
Accessory: PMAF4022A

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	804.9125	21.02	18.87
Vert.	804.9125	34.68	32.53

GNSS (EIRP for 1559 - 1610MHz)

Date:	7/12/2016	**EMC#:**	06481-EMC-00011			
Model Number:	H92UCH9PW7AN	**S/N**	837TSX0488		Channel Spacing: 12.5kHz	
		Notes:	**1. PMAF4022A**		GNSS	
Tx Freq.	799.0875					
		Horizontal	**Vertical**			
		Radiated	**Radiated**			
	Frequency	**Spur. Emiss.**	**Spur. Emiss.**			
Spur	**MHz**	**(dBm)**	**(dBm)**			
2XFund	1598.175	-54.86	-48.36			
		Notes:	**2. PMAF4022A**		GNSS	
Tx Freq.	804.9125					
		Horizontal	**Vertical**			
		Radiated	**Radiated**			
	Frequency	**Spur. Emiss.**	**Spur. Emiss.**			
Spur	**MHz**	**(dBm)**	**(dBm)**			
2XFund	1609.8250	-54.76	-48.53			
		Notes:	**3.**		GNSS	
Tx Freq.						
		Horizontal	**Vertical**			
		Radiated	**Radiated**			
	Frequency	**Spur. Emiss.**	**Spur. Emiss.**			
Spur	**MHz**	**(dBm)**	**(dBm)**			
2XFund						

Remarks:* Indicates the unwanted spurious emission could not be detected due to noise limitations or ambients.

Maximum Power Spectral Density (dBm/Hz) = Power (dBm) – 10log(RBW)
= -48.36 – 10log(10^6)
= -108.36dBm/Hz or -78.36dBW/MHz

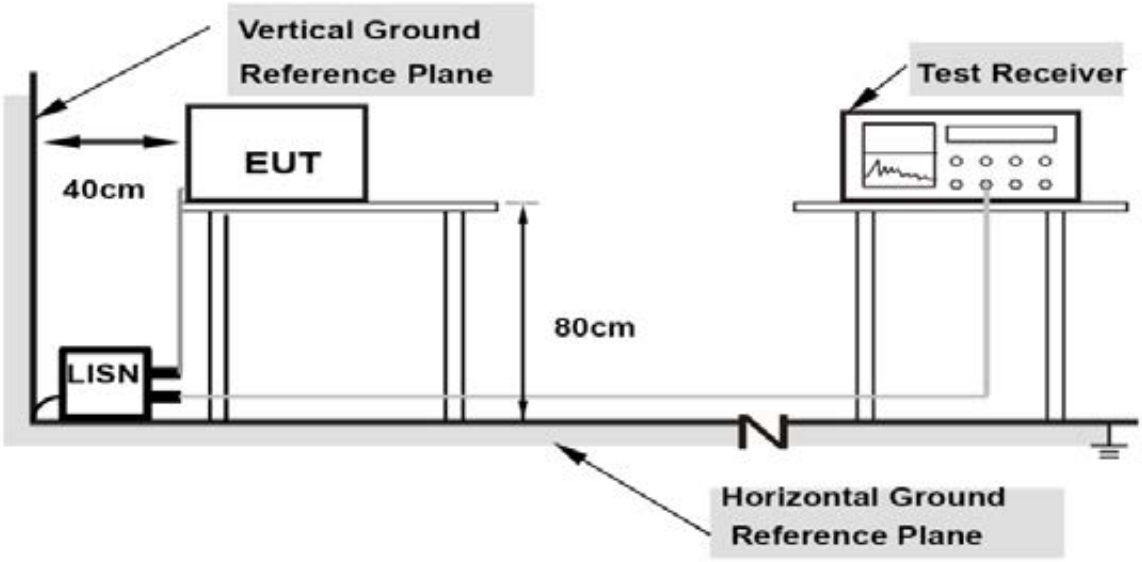
6.12.3. Test Limit

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

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.

6.13. AC Power Line Conducted Spur Emissions

6.13.1. Test Setup



1) Tests were conducted for both Receive and Transmit Mode of the EUT.
2) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm / 50 µH of coupling impedance for the measuring instrument.
3) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
4) The frequency range from 150 kHz to 30 MHz was measured.

6.13.2. Test Result

Not Applicable

6.13.3. Test Limit

For AC Power Line Conducted Test Limit can be Class A or B depends on product classification.

Limits for conducted disturbance at the mains ports of class A ITE

Frequency range MHz	Limits dB(µV)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60
NOTE The lower limit shall apply at the transition frequency.		

Limits for conducted disturbance at the mains ports of class B ITE

Frequency range MHz	Limits dB(µV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50
NOTE 1 The lower limit shall apply at the transition frequencies. NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		