

TEST REPORT

Report No.: 18030747HKG-001

Mattel Asia Pacific Sourcing Ltd.

Application For Certification
(Original Grant)

FCC ID: PIYFLY56-18A5T

IC: 4390C-FLY5618A5T

Transceiver

Prepared and Checked by:

Approved by:

Signed On File
Leung Sung Tak, Andy
Engineer

Chan Chi Hung, Terry
Manager
Date: April 27, 2018

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TEST REPORT

GENERAL INFORMATION

Grantee:	Mattel Asia Pacific Sourcing Ltd.
Grantee Address:	13/F., South Tower, World Finance Centre, Harbour City, Tsim Sha Tsui, Kowloon, Hong Kong.
Contact Person:	Ivan Chang
Tel:	(852) 3185 6614
Fax:	(852) 2735 3758
e-mail:	Ivan.chang@mattel.com
Manufacturer:	Mattel Asia Pacific Sourcing Limited
Manufacturer Address:	13/F., South Tower, World Finance Centre, Harbour City, Tsim Sha Tsui, Kowloon, Hong Kong.
Buyer:	Mattel
Brand Name:	Alpha Training Blue
Model:	FLY56
HVIN:	FLY56T
PMN:	Alpha Training Blue
Type of EUT:	Transceiver
Description of EUT:	RC Robot
Serial Number:	N/A
FCC ID / IC:	PIYFLY56-18A5T / 4390C-FLY5618A5T
Date of Sample Submitted:	March 16, 2018
Date of Test:	March 16, 2018 to April 19, 2018
Report No.:	18030747HKG-001
Report Date:	April 27, 2018
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%

TEST REPORT

SUMMARY OF TEST RESULT

Test Specification	Reference	Results
Radiated Emission	15.249, 15.209 /	Pass
Radiated Emission on the Bandedge	RSS-210 B.10, RSS-210 4.4	
Radiated Emission in Restricted Bands	15.205 / RSS-210 4.1	Pass

The equipment under test is found to be complying with the following standards:

FCC Part 15, October 1, 2016 Edition

RSS-210 Issue 9, August 2016

RSS-Gen Issue 4, November 2014

Note: 1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the provisions of this section.

2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.

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1.0 GENERAL DESCRIPTION

1.1 Product Description

The Equipment Under Test (EUT) operates at frequency range of 2413MHz to 2475MHz, 39 channels using, named in the following list.

1	2413
2	2419
3	2420
4	2421
5	2422
6	2423
7	2424
8	2425
9	2426
10	2427
11	2428
12	2429
13	2435
14	2436
15	2438
16	2439
17	2440
18	2441
19	2443
20	2444
21	2445
22	2451
23	2452
24	2453
25	2454
26	2455
27	2456
28	2457
29	2458
30	2459
31	2460
32	2461
32	2467
33	2468
34	2469
35	2470
36	2471
37	2473
38	2474
39	2475

The EUT is powered by 1x 3.7V Li-ion rechargeable battery.

After switch on the EUT, model: FLY56, the dinosaur will be moved forward or backward, turned left or right, or the hand or mouth moving based on the joystick control and the pressed switches in the controller.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

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Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

1.2 Related Submittal(s) Grants

The Certification procedure of this EUT's (Controller) corresponding transceiver (Dinosaur with FCC ID: PIYFLY56-18ASR) is being processed as the same time of this application.

1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the **“Justification Section”** of this Application.

1.4 Test Facility

The 3m Chamber and facility used to collect the radiated data is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong. This test facility and site measurement data have been placed on file with the FCC and IC No. 2042V-1.

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2.0 SYSTEM TEST CONFIGURATION

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

The device was powered by D C 3.7V (1 x 3.7V Li-ion Rechargeable battery).

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

The unit was operated standalone and placed in the center of the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it transmits the RF signal continuously.

2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

2.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

2.5 Support Equipment List and Description

N/A.

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3.0 EMISSION RESULTS

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG - AV$$

where FS = Field Strength in dBμV/m

RA = Receiver Amplitude (including preamplifier) in dBμV

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where

FS = Field Strength in dBμV/m

RR = RA - AG - AV in dBμV

LF = CF + AF in dB

Assume a receiver reading of 52.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 32 dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

$$RA = 52.0 \text{ dB}\mu\text{V/m}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$AV = 5.0 \text{ dB}$$

$$FS = RR + LF$$

$$FS = 18 + 9 = 27 \text{ dB}\mu\text{V/m}$$

$$RR = 18.0 \text{ dB}\mu\text{V}$$

$$LF = 9.0 \text{ dB}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(27 \text{ dB}\mu\text{V/m})/20] = 22.4 \mu\text{V/m}$$

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3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 4888 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 9.7 dB

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RADIATED EMISSIONS

Model: FLY56

Date of Test: April 19, 2018

Worst-Case Operating Mode: Transmitting

Table 1
Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement

Lowest Channel

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
H	2413.000	100.0	33	29.4	96.4	36.1	60.3	94.0	-33.7
H	2400.000	55.8	33	29.4	52.2	36.1	16.1	54.0	-37.9
V	4826.000	62.2	33	34.9	64.1	36.1	28.0	54.0	-26.0
V	7239.000	46.9	33	37.9	51.8	36.1	15.7	54.0	-38.3
V	9652.000	51.3	33	40.4	58.7	36.1	22.6	54.0	-31.4
H	12065.000	51.1	33	40.5	58.6	36.1	22.5	54.0	-31.5
V	14478.000	48.4	33	40.0	55.4	36.1	19.3	54.0	-34.7

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
H	2413.000	100.0	33	29.4	96.4	114.0	-17.6
H	2400.000	55.8	33	29.4	52.2	74.0	-21.8
V	4826.000	62.2	33	34.9	64.1	74.0	-9.9
V	7239.000	46.9	33	37.9	51.8	74.0	-22.2
V	9652.000	51.3	33	40.4	58.7	74.0	-15.3
H	12065.000	51.1	33	40.5	58.6	74.0	-15.4
V	14478.000	48.4	33	40.0	55.4	74.0	-18.6

- NOTES:
1. Peak Detector Data unless otherwise stated.
 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative sign in the column shows value below limit.
 4. Horn antenna is used for the emission over 1000MHz.
 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 4.1.
 6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.

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Model: FLY56

Date of Test: April 19, 2018

Worst-Case Operating Mode: Transmitting

Table 2
Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement

Middle Channel

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
H	2444.000	100.6	33	29.4	97.0	36.1	60.9	94.0	-33.1
V	4888.000	62.4	33	34.9	64.3	36.1	28.2	54.0	-25.8
V	7332.000	47.3	33	37.9	52.2	36.1	16.1	54.0	-37.9
V	9776.000	50.4	33	40.4	57.8	36.1	21.7	54.0	-32.3
H	12220.000	52.9	33	40.5	60.4	36.1	24.3	54.0	-29.7
V	14664.000	50.4	33	38.4	55.8	36.1	19.7	54.0	-34.3

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
H	2444.000	100.6	33	29.4	97.0	114.0	-17.0
V	4888.000	62.4	33	34.9	64.3	74.0	-9.7
V	7332.000	47.3	33	37.9	52.2	74.0	-21.8
V	9776.000	50.4	33	40.4	57.8	74.0	-16.2
H	12220.000	52.9	33	40.5	60.4	74.0	-13.6
V	14664.000	50.4	33	38.4	55.8	74.0	-18.2

- NOTES:
1. Peak Detector Data unless otherwise stated.
 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative sign in the column shows value below limit.
 4. Horn antenna is used for the emission over 1000MHz.
 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 4.1.
 6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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Model: FLY56

Date of Test: April 19, 2018

Worst-Case Operating Mode: Transmitting

Table 3
Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement

Highest Channel

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
H	2475.000	99.8	33	29.4	96.2	36.1	60.1	94.0	-33.9
H	2483.500	57.7	33	29.4	54.1	36.1	18.0	54.0	-36.0
V	4950.000	62.3	33	34.9	64.2	36.1	28.1	54.0	-25.9
V	7425.000	48.7	33	37.9	53.6	36.1	17.5	54.0	-36.5
V	9900.000	48.5	33	40.4	55.9	36.1	19.8	54.0	-34.2
H	12375.000	53.9	33	40.5	61.4	36.1	25.3	54.0	-28.7
V	14850.000	50.3	33	38.4	55.7	36.1	19.6	54.0	-34.4

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
H	2475.000	99.8	33	29.4	96.2	114.0	-17.8
H	2483.500	57.7	33	29.4	54.1	74.0	-19.9
V	4950.000	62.3	33	34.9	64.2	74.0	-9.8
V	7425.000	48.7	33	37.9	53.6	74.0	-20.4
V	9900.000	48.5	33	40.4	55.9	74.0	-18.1
H	12375.000	53.9	33	40.5	61.4	74.0	-12.6
V	14850.000	50.3	33	38.4	55.7	74.0	-18.3

- NOTES:
1. Peak Detector Data unless otherwise stated.
 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative sign in the column shows value below limit.
 4. Horn antenna is used for the emission over 1000MHz.
 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 4.1.
 6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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4.0 EQUIPMENT PHOTOGRAPHS

For electronic filing, the photographs are saved with filename: external photos.pdf and internal photos.pdf.

5.0 PRODUCT LABELLING

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

6.0 TECHNICAL SPECIFICATIONS

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

7.0 INSTRUCTION MANUAL

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States and Canada.

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8.0 MISCELLANEOUS INFORMATION

The miscellaneous information includes details of the test procedure and measured bandwidth / calculation of factor such as pulse desensitization and averaging factor (calculation and timing diagram).

8.1 Radiated Emission on the Bandedge

The test data of bandedge emissions were shown on the above radiated emissions table 1 & table 3 respectively.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50dB below the level of the fundamental or to the general radiated emissions limits in Section 15.209 / RSS-210 4.4, whichever is the lesser attenuation, which meet the requirement of part 15.249(d) / RSS-210 B.10.

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PEAK MEASUREMENT

The resultant field strength meets the general radiated emission limit in Section 15.209, which does not exceed 74 dB μ V/m (Peak Limit) but exceeded 54 dB μ V/m (Average Limit).

8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (Teff) is approximately 0.52ms for a digital "1" bit which illustrated on technical specification, with a resolution bandwidth (3dB) of 1MHz, so the pulse desensitivity factor is 0dB.

8.3 Calculation of Average Factor

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 100ms

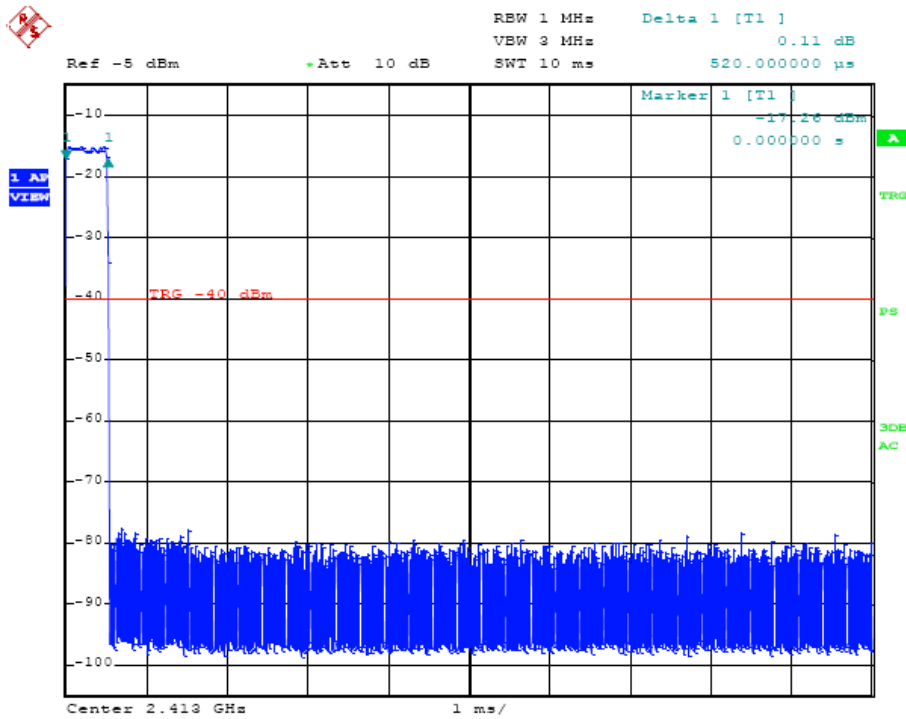
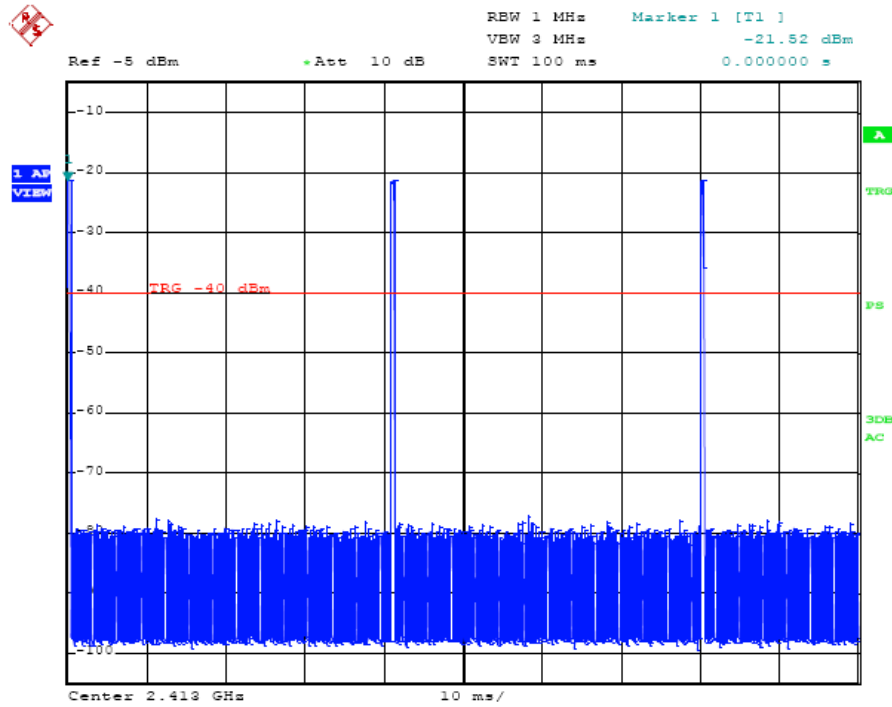
Effective period of the cycle = $3 \times 0.52 = 1.56\text{ms}$

DC = $1.56/100 = 0.0156$

Therefore, the averaging factor is found by $20\log 0.0156 = -36.1\text{dB}$.

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AVERAGE FACTOR



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8.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services Hong Kong Ltd. in the measurements of transmitter operating under the Part 15, Subpart C rules.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

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8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements were made as described in ANSI C63.10 (2013).

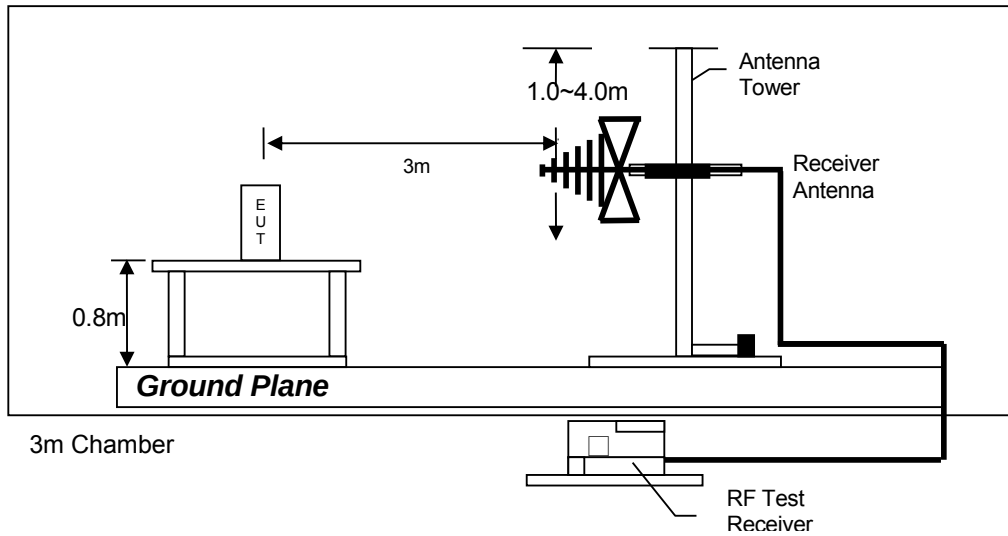
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 3 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.

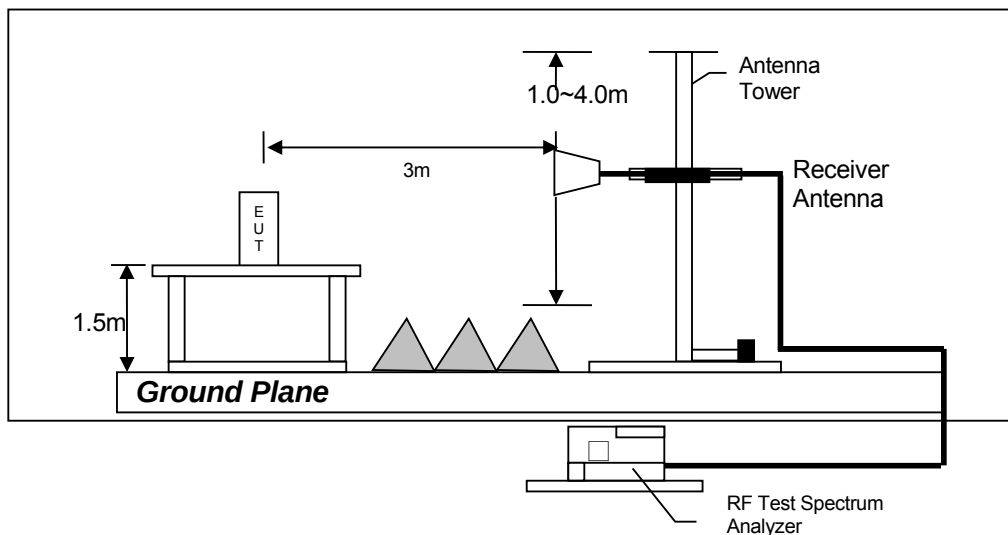
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8.4.1 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.



Test setup of radiated emissions up to 1GHz



Test setup of radiated emissions above 1GHz

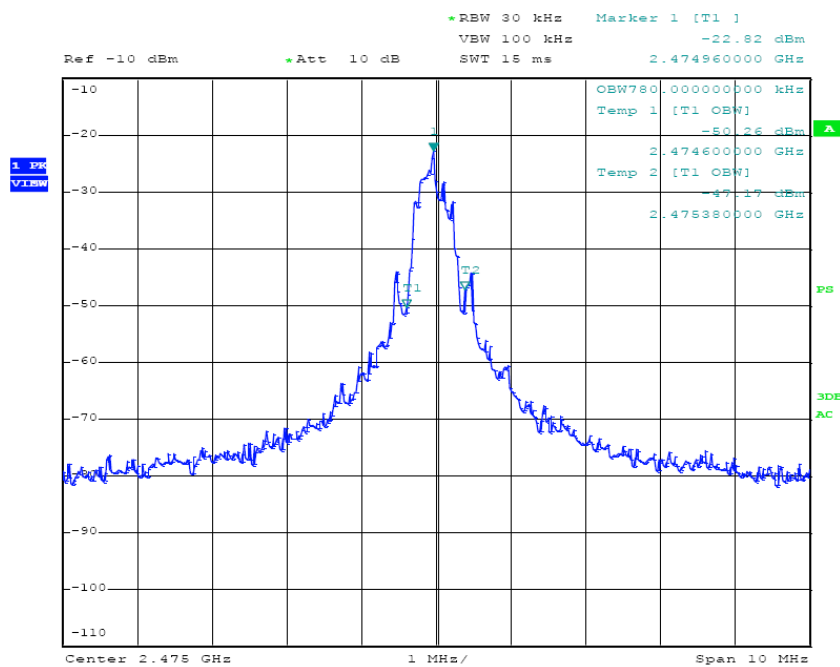
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8.5 Occupied Bandwidth

Occupied Bandwidth Results:

Occupied Bandwidth (kHz)	
Low Channel: 2413	680
Middle Channel: 2443	740
High Channel: 2475	780

The worst case is shown as below



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9.0 CONFIDENTIALITY REQUEST

For electronic filing, a preliminary copy of the confidentiality request is saved with filename: request.pdf.

10.0 EQUIPMENT LIST

1) Radiated Emissions Test

Equipment	Emi Test Receiver	Spectrum Analyzer	Log Periodic Antenna
Registration No.	EW-3156	EW-3281	EW-1042
Manufacturer	R&S	ROHDESCHWARZ	EMCO
Model No.	ESCI	FSV40	3146
Calibration Date	November 10, 2017	January 02, 2018	June 19, 2017
Calibration Due Date	November 10, 2018	January 02, 2019	December 19, 2019

Equipment	Biconical Antenna	Double Ridged Guide Antenna	14m Double Shield Rf Cable (20MHz To 6GHz)
Registration No.	EW-2512	EW-1133	EW-2505
Manufacturer	EMCO	EMCO	RADIALL
Model No.	3104C	3115	nm / br5d / sma 14m
Calibration Date	November 16, 2016	May 24, 2017	October 30, 2017
Calibration Due Date	May 16, 2018	November 24, 2018	October 30, 2018

Equipment	Rf Cable 14m (1GHz To 26.5GHz)	Solid State Low Noise Preamplifier Assembly (1 - 18)GHz	Notch Filter (cutoff frequency 2.4GHz to 2.5GHz) 2 pieces
Registration No.	EW-2781	EW-3229	EW-2213
Manufacturer	GREATBILLION	BONN ELEKTRO	MICROTRONICS
Model No.	SMA m/SHF5MPU /SMA m ra14m,26G	BLMA 0118-5G	BRM50701-02
Calibration Date	September 25, 2017	January 30, 2018	May 26, 2017
Calibration Due Date	September 25, 2018	January 30, 2019	May 26, 2018

2) Bandedge Measurement

Equipment	Spectrum Analyzer
Registration No.	EW-2329
Manufacturer	R&S
Model No.	FSP3
Calibration Date	September 28, 2017
Calibration Due Date	September 28, 2018

END OF TEST REPORT