

FCC TEST REPORT

FOR

Estes-Cox Corporation d/b/a Estes Industries and Cox

SYNCRO

Test Model: ESTES 4610

Prepared for : Estes-Cox Corporation d/b/a Estes Industries and Cox
Address : 1295 H Street, Penrose, Colorado 81240 United States

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd
Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China

Date of receipt of test sample : December 02, 2014
Number of tested samples : 1
Serial number : Prototype
Date of Test : December 02, 2014 - December 09, 2014
Date of Report : December 09, 2014

FCC TEST REPORT
FCC CFR 47 PART 15 C(15.249): 2013

Report Reference No. : LCS1412020110E

Date of Issue : December 09, 2014

Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address..... : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,
 Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure..... : Full application of Harmonised standards
 Partial application of Harmonised standards
 Other standard testing method

Applicant's Name : Estes-Cox Corporation d/b/a Estes Industries and Cox

Address..... : 1295 H Street, Penrose, Colorado 81240 United States

Test Specification

Standard..... : FCC CFR 47 PART 15 C(15.249): 2013 / RSS-210 Issue 8 /
 RSS-Gen Issue 3

Test Report Form No..... : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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Test Item Description..... : SYNCRO

Trade Mark..... : N/A

Model/ Type reference..... : ESTES 4610

Ratings..... : DC 3.0V by 2*AAA batteries

Result : Positive

Compiled by:

Leo Lee

Supervised by:

Danny Huang

Approved by:

Gavin Liang

Leo Lee/ File administrators

Danny Huang/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS1412020110E	<u>December 09, 2014</u> Date of issue
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Type / Model..... : ESTES 4610 EUT..... : SYNCRO
Applicant..... : Estes-Cox Corporation d/b/a Estes Industries and Cox Address..... : 1295 H Street, Penrose, Colorado 81240 United States Telephone..... : / Fax..... : /
Manufacturer..... : Shenzhen Hubsan Technology Co., Ltd. Address..... : Rm407, Municipal Service Building, Hong Li Road west, Futian District, Shenzhen, China Telephone..... : / Fax..... : /
Factory..... : Shenzhen Hubsan Technology Co., Ltd. Address..... : Rm407, Municipal Service Building, Hong Li Road west, Futian District, Shenzhen, China Telephone..... : / Fax..... : /

Test Result	Positive
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The test report merely corresponds to the test sample.
 It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : SYNCRO

Model Number : ESTES 4610

Power Supply : DC 3.0V by 2*AAA batteries

Frequency Range : 2410.00-2465.00MHz, (Channel Number: 12, Channel
Frequency=2410+5*(K-1), K=1, 2, 312)

Modulation Technology : GFSK

Channel Number : 12

Channel Spacing : 5MHz

Antenna Type and Gain : PCB Antenna, 1.8dBi(Max.)

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
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1.3. External I/O

I/O Port Description	Quantity	Cable
--	--	--

1.4. Description of Test Facility

Site Description

EMC Lab.

: Accredited by CNAS, June 04, 2010

The Certificate Registration Number. is L4595.

Accredited by FCC, July 14, 2011

The Certificate Registration Number. is 899208.

Accredited by Industry Canada, May. 02, 2011

The Certificate Registration Number. is 9642A-1

1.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty	9KHz~30MHz	$\pm 3.10\text{dB}$	(1)
	30MHz~200MHz	$\pm 2.96\text{dB}$	(1)
	200MHz~1000MHz	$\pm 3.10\text{dB}$	(1)
	1GHz~26.5GHz	$\pm 4.00\text{dB}$	(1)
Conduction Uncertainty	150kHz~30MHz	$\pm 1.63\text{dB}$	(1)
Power disturbance	30MHz~300MHz	$\pm 1.60\text{dB}$	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1.7. Description Of Test Modes

The EUT operates in the unlicensed ISM band at 2.4GHz. The following operating modes were applied for the related test items. And the new battery is used during the measurement.

The EUT received DC 3.0V power from 2*AAA batteries which are new and full power.

All test modes were tested, only the result of the worst case was recorded in the report.

The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

Mode of Operations	Transmitting Frequency (MHz)
GFSK	2410
	2435
	2465
For Conducted Emission	
Test Mode	N/A
For Radiated Emission	
Test Mode	TX Mode

Note: The EUT is designed to use DC 3.0V 2*AAA batteries for power supply, so the conducted emission testing is not applicable.

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd..

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C and RSS-210.

2.3. General Test Procedures

2.3.1 Conducted Emissions(N/A)

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4

3. CONNECTION DIAGRAM OF TEST SYSTEM

3.1. Justification

The system was configured for testing in a continuous transmit condition.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.203	RSS-Gen	Antenna Requirement	Compliant
§15.207(a)	RSS-Gen	Conduction Emissions	N/A
§15.205(a), §15.209(a), §15.249(a), §15.249(c)	RSS-210 (A2.9&A8.4)	Radiated Emissions Measurement	Compliant
§15.249	RSS-210(A8.5)	Band Edges Measurement	Compliant
§15.249, §15.215	RSS-210	20 dB Bandwidth	Compliant

5. ANTENNA REQUIREMENT

5.1. Standard Applicable

According to §15.203 & RSS-Gen, Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

5.2. Antenna Connected Construction

The antenna used for transmitting is 1.8dBi(Max.), and EUT is equipped with an onboard PCB antenna and no consideration of replacement. Please see EUT photo for details.

Result: Compliance.

6. RADIATED EMISSION MEASUREMENT

6.1. Standard Applicable

1. Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.
2. 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) and 15.249 limit in the table below has to be followed.

Fundamental Frequency	Field Strength of fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1000KHz / 1000KHz for peak

6.3. Test Procedure

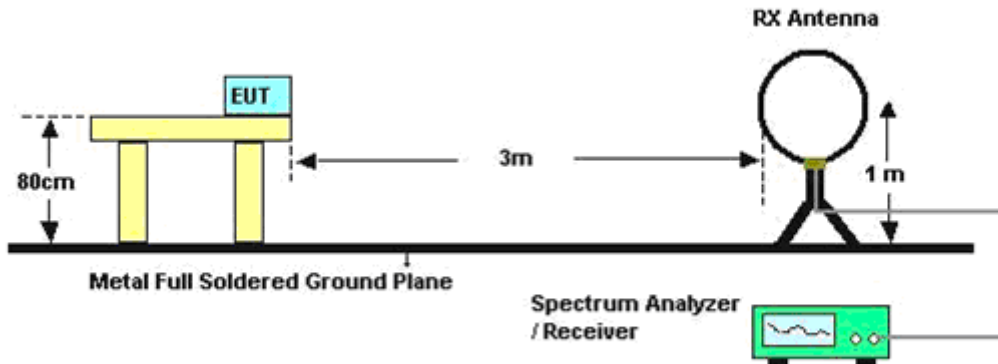
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

6.4. Test Equipment List and Details

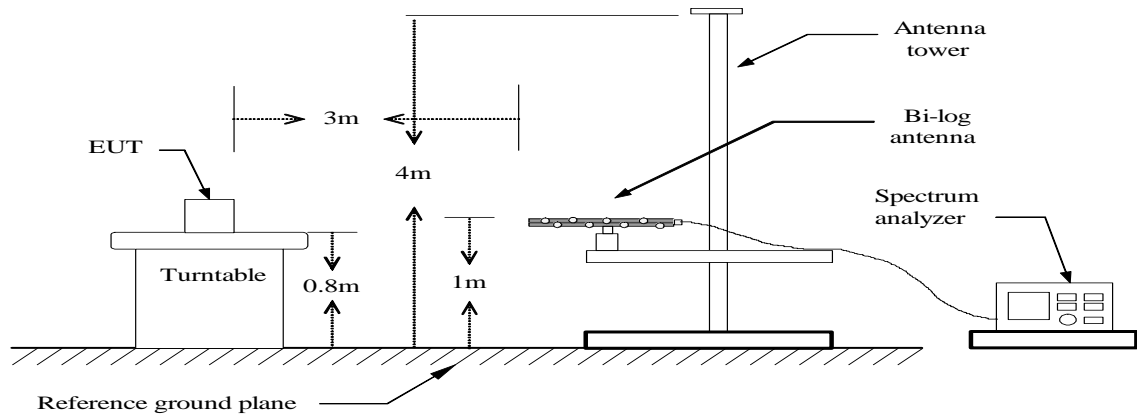
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4407B	MY41440754	2014-07-16	2015-07-15
Test Receiver	Rohde & Schwarz	ESCI	101142	2014-06-18	2015-06-17
Loop antenna	EMCO	6502	0042963	2014-06-18	2015-06-17
Log per Antenna	Schwarzbeck	VULB9163	9163-470	2014-06-10	2015-06-09
Horn-antenna	ETS.LINDGREN	3115	00034771	2014-06-10	2015-06-09
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	2014-06-10	2015-06-09
Amplifier	SCHAFFNER	COA9231A	18667	2014-06-18	2015-06-17
Amplifier	Agilent	8449B	3008A02120	2014-07-16	2015-07-15
Amplifier	MITEQ	AMF-6F-26040 0	9121372	2014-07-16	2015-07-15
RF Cable-R03m	Jye Bao	RG142	CB021	2014-06-18	2015-06-17
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2014-06-18	2015-06-17

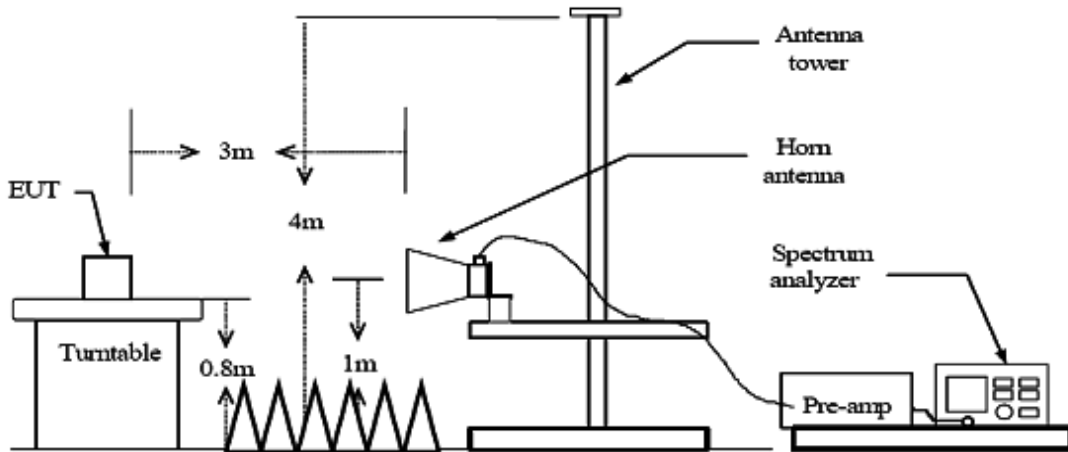
6.5. Block Diagram of Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz





Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

6.6. Test Results

Results of Radiated Emissions (9kHz~30MHz)

Frequency (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
				See Note

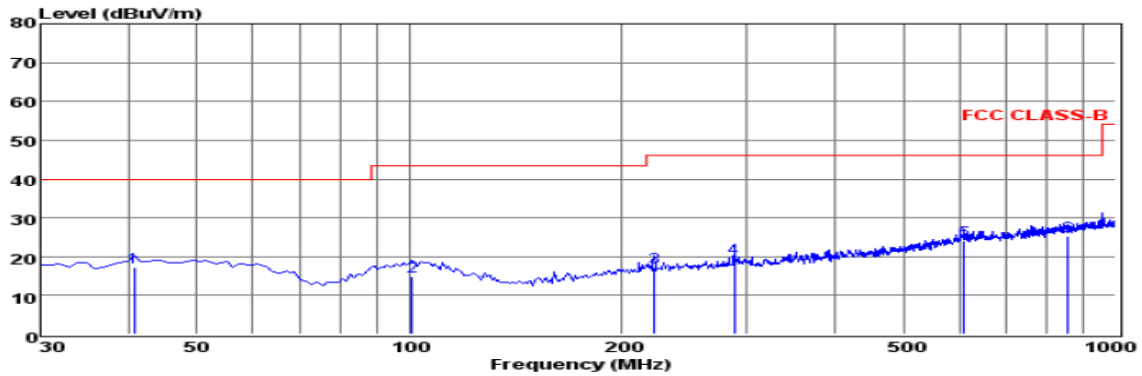
Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

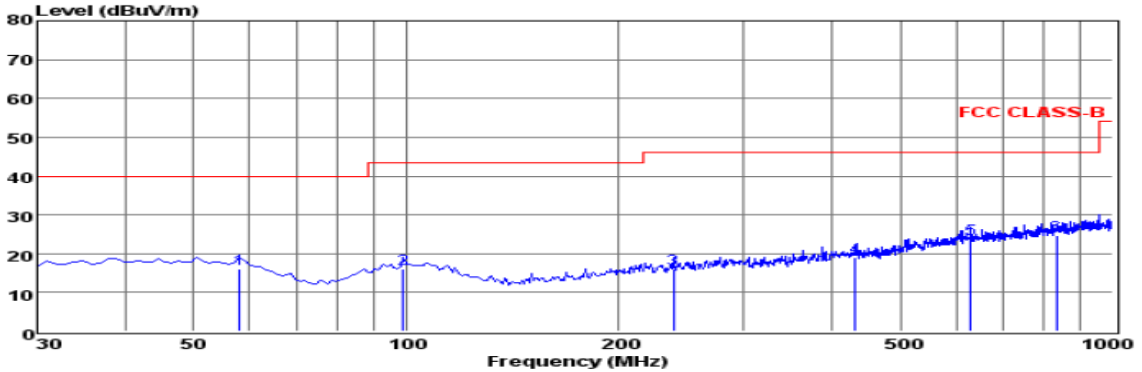
Results of Radiated Emissions (30MHz~1000MHz)



Env./Ins: 24°C/56%
 EUT: SYNCRO
 M/N: ESTES 4610
 Power Rating: DC 3V
 Test Mode: TX-Low Channel (2410MHz)
 Operator: Leo
 Memo:
 pol: HORIZONTAL

	Freq MHz	Reading dBuV	CabLos dB	Antfac dB/m	Measured dBuV/m	Limit dBuV/m	Over dB	Remark
1	40.67	3.08	0.50	13.58	17.16	40.00	-22.84	QP
2	100.81	1.24	0.60	13.09	14.93	43.50	-28.57	QP
3	222.06	4.92	0.95	11.29	17.16	46.00	-28.84	QP
4	288.02	5.78	1.05	12.83	19.66	46.00	-26.34	QP
5	611.03	3.91	1.59	18.49	23.99	46.00	-22.01	QP
6	857.41	2.75	1.89	20.65	25.29	46.00	-20.71	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the official limit are not reported



Env./Ins: 24°C/56%
 EUT: SYNCRO
 M/N: ESTES 4610
 Power Rating: DC 3V
 Test Mode: TX-Low Channel (2410MHz)
 Operator: Leo
 Memo:
 pol: VERTICAL

	Freq MHz	Reading dBuV	CabLos dB	Antfac dB/m	Measured dBuV/m	Limit dBuV/m	Over dB	Remark
1	58.13	2.71	0.47	12.81	15.99	40.00	-24.01	QP
2	98.87	2.22	0.61	13.09	15.92	43.50	-27.58	QP
3	238.55	3.05	0.96	12.03	16.04	46.00	-29.96	QP
4	432.55	2.22	1.18	15.53	18.93	46.00	-27.07	QP
5	630.43	3.53	1.60	18.56	23.69	46.00	-22.31	QP
6	832.19	2.55	1.86	20.39	24.80	46.00	-21.20	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the official limit are not reported

***Note: Pre-scan all mode and recorded the worst case results in this report (TX- Low Channel (2410MHz , GFSK)).

6.7. Results for Radiated Emissions (Above 1GHz)

Field Strength Of Fundamental (TX-Low Channel)						
Frequency (MHz)	Pol.	Measure Result (PK, dBuV/m)	Measure Result (AVG, dBuV/m)	Peak Limit (dBuV/m)	AVG Limit (dBuV/m)	Result
2410	H	85.27	81.96	114	94	Pass
2410	V	86.13	82.34	114	94	Pass

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4820.10	45.67	33.06	35.04	3.94	47.63	74	-26.37	Peak	Horizontal
4820.13	33.86	33.06	35.04	3.94	35.82	54	-18.18	Average	Horizontal
4820.11	44.79	33.06	35.04	3.94	46.75	74	-27.25	Peak	Vertical
4820.13	36.47	33.06	35.04	3.94	38.43	54	-15.57	Average	Vertical

Field Strength Of Fundamental (TX-Middle Channel)						
Frequency (MHz)	Pol.	Measure Result (PK, dBuV/m)	Measure Result (AVG, dBuV/m)	Peak Limit (dBuV/m)	AVG Limit (dBuV/m)	Result
2435	H	84.06	80.73	114	94	Pass
2435	V	85.52	81.29	114	94	Pass

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4870.13	42.81	33.16	35.15	3.96	44.78	74	-29.22	Peak	Horizontal
4870.16	32.98	33.16	35.15	3.96	34.95	54	-19.05	Average	Horizontal
4870.13	44.75	33.16	35.15	3.96	46.72	74	-27.28	Peak	Vertical
4870.16	35.51	33.16	35.15	3.96	37.48	54	-16.52	Average	Vertical

Field Strength Of Fundamental (TX-High Channel)						
Frequency (MHz)	Pol.	Measure Result (PK, dBuV/m)	Measure Result (AVG, dBuV/m)	Peak Limit (dBuV/m)	AVG Limit (dBuV/m)	Result
2465	H	83.63	80.16	114	94	Pass
2465	V	84.35	80.97	114	94	Pass

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4930.10	42.72	33.26	35.14	3.98	44.82	74	-29.18	Peak	Horizontal
4930.13	33.51	33.26	35.14	3.98	35.61	54	-18.39	Average	Horizontal
4930.10	43.30	33.26	35.14	3.98	45.40	74	-28.60	Peak	Vertical
4930.13	34.84	33.26	35.14	3.98	36.94	54	-17.06	Average	Vertical

Notes:

1. Measuring frequencies from 9k~10th harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 26GHz) were made with an instrument using Peak detector mode.
3. No emission was be recorded above 18GHz means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

6.8. Results for Band edge Testing (Radiated)

Only record the worst test case as following:

TX(Low Channel)

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2377.61	44.87	32.89	35.16	3.51	46.11	74	-27.89	Peak	Horizontal
2377.63	36.39	32.9	35.16	3.51	37.64	54	-16.36	Average	Horizontal
2400.00	48.15	32.92	35.16	3.54	49.45	74	-24.55	Peak	Horizontal
2399.99	36.25	32.92	35.16	3.54	37.55	54	-16.45	Average	Horizontal
2377.60	45.40	32.89	35.16	3.51	46.64	74	-27.36	Peak	Vertical
2377.63	34.30	32.9	35.16	3.51	35.55	54	-18.45	Average	Vertical
2400.00	46.33	32.92	35.16	3.54	47.63	74	-26.37	Peak	Vertical
2399.99	35.98	32.92	35.16	3.54	37.28	54	-16.72	Average	Vertical

TX(High Channel)

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	44.03	33.06	35.18	3.6	45.51	74	-28.49	Peak	Horizontal
2483.86	33.27	33.08	35.18	3.6	34.77	54	-19.23	Average	Horizontal
2489.89	44.14	33.08	35.18	3.62	45.66	74	-28.34	Peak	Horizontal
2489.01	34.72	33.08	35.18	3.62	36.24	54	-17.76	Average	Horizontal
2483.50	44.86	33.06	35.18	3.6	46.34	74	-27.66	Peak	Vertical
2483.51	36.32	33.08	35.18	3.6	37.82	54	-16.18	Average	Vertical
2489.86	43.44	33.08	35.18	3.62	44.96	74	-29.04	Peak	Vertical
2489.89	34.56	33.08	35.18	3.62	36.08	54	-17.92	Average	Vertical

7. 20 DB BANDWIDTH MEASUREMENT

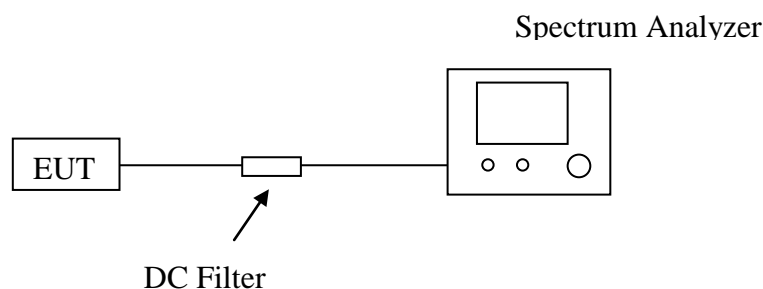
7.1. Standard Applicable

According to §15.215 & RSS-210.

7.2. Test Equipment List and Details

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4407B	MY41440754	2014-07-16	2015-07-15
DC Filter	MPE	23872C	N/A	2014-06-10	2015-06-09
RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2014-06-18	2015-06-17

7.3. Block Diagram of Test Setup



7.4. Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW \geq 1% of the 20 dB bandwidth

VBW \geq RBW

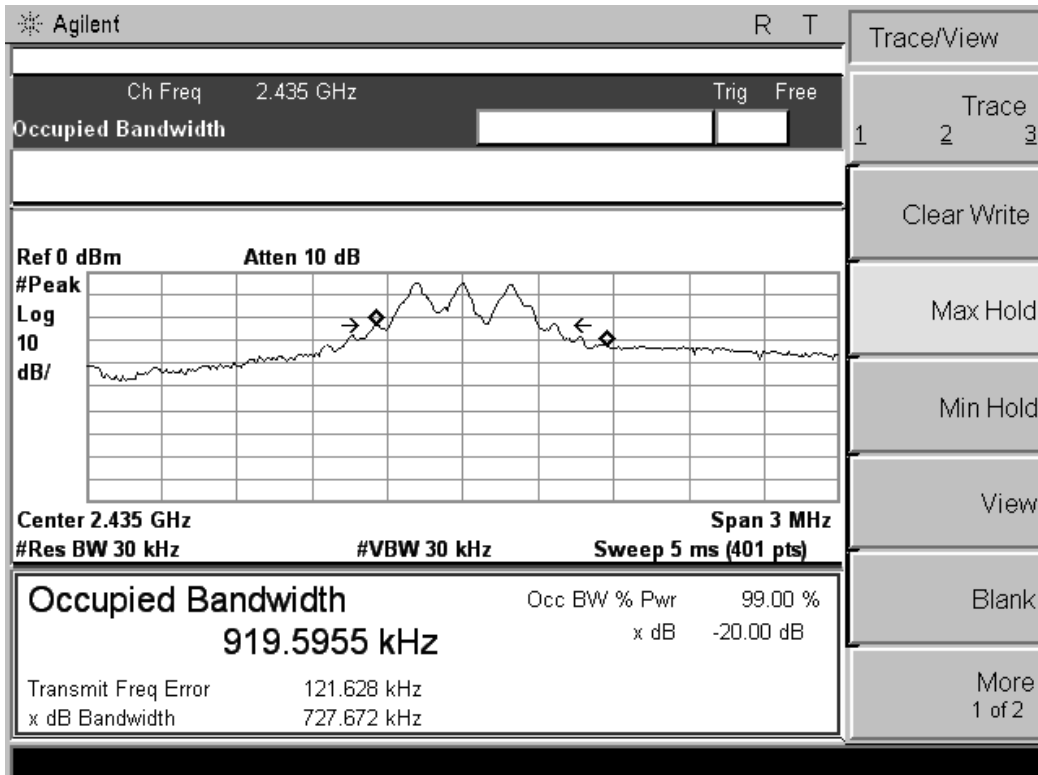
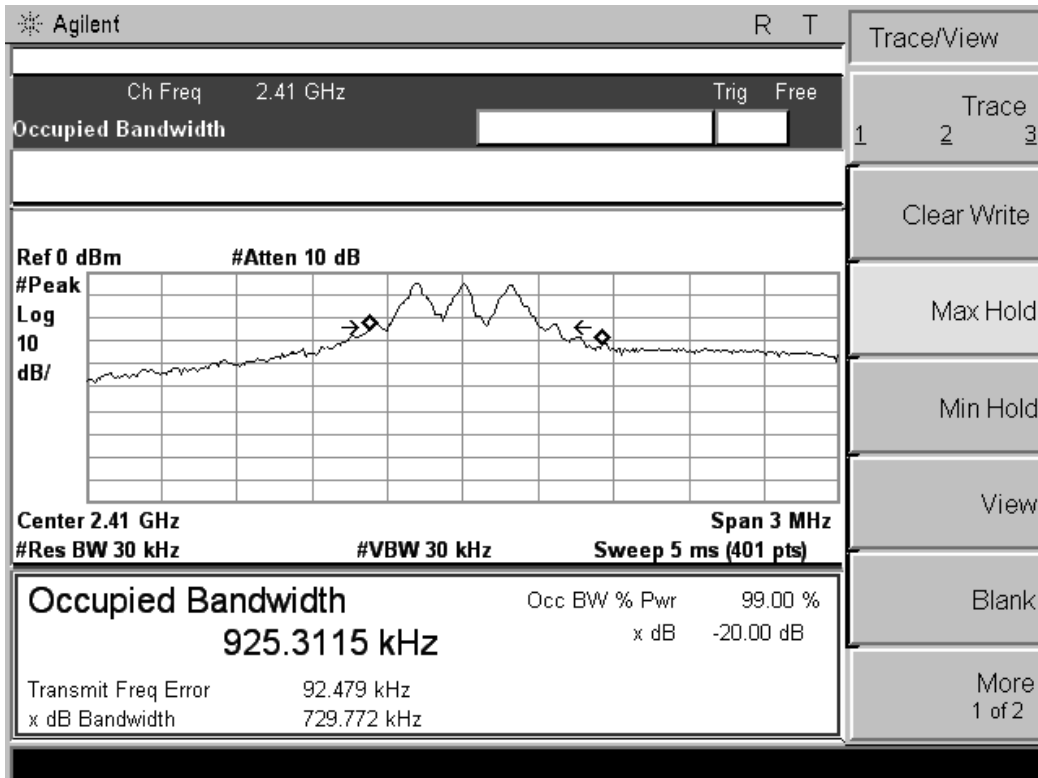
Sweep = auto

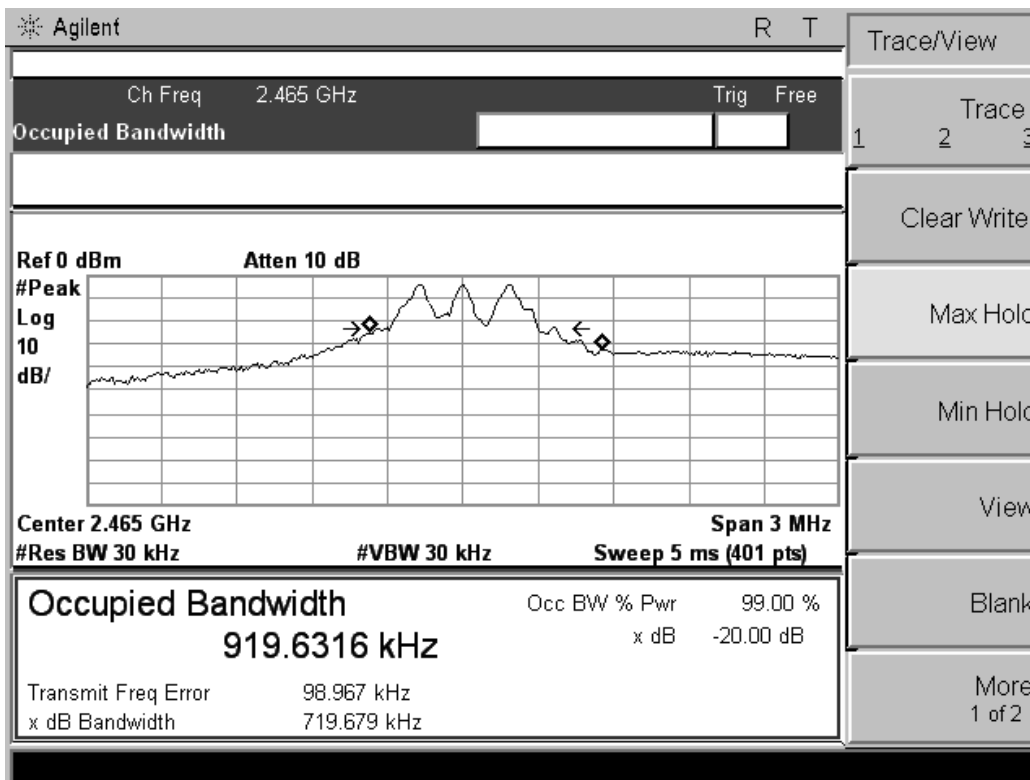
Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

7.5. Test Results





8. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following identical model(s):

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Belong to the tested device:

Product description : SYNCRO

Model name : ESTES 4610

Remark: No additional models were tested.

-----THE END OF REPORT-----