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Report No.: SHEM161000689001
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1 Cover Page

RF TEST REPORT

Application No.:	SHEM1610006890CR
Applicant:	Core Supergoods UK Ltd.
FCC ID:	2AJUQACRXR
Equipment Under Test (EUT): NOTE: The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	Interactive Toy
Model No.(EUT):	ACRXR
Standards:	FCC PART 15 Subpart C: 2015
Date of Receipt:	2016-10-27
Date of Test:	2016-10-27 to 2016-11-16
Date of Issue:	2017-03-07
Test Result:	Pass*

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	FCC Part 15, Subpart C Section 15.203	---	PASS
AC Power Line Conducted Emission	FCC Part 15, Subpart C Section 15.207	ANSI C63.10 (2013) Section 6.2	N/A
Field Strength of the Fundamental Signal	FCC Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013) Section 6.6	PASS
Radiated Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.249 (a) & 15.209 & 15.205	ANSI C63.10 (2013) Section 6.4 & 6.5 & 6.6 & 6.10	PASS
20dB Bandwidth	FCC Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013) Section 6.9.2	PASS
Remark: N/A: Not Applicable. Please refer to Section 7.3 of this report for details.			



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4 General Information

4.1 Client Information

Applicant: Core Supergoods UK Ltd.
 Address of Applicant: 925 Finchley Road, London NW11 7PE
 Manufacturer: SKY worldwide erport Ltd.
 Address of Manufacturer: 805-6 Prosperity Millennia Plaza, 663 King's Road, North Point, Hong kong
 Factory: G-SMT
 Address of Factory: C Block, 333 Lian Ying Road, Song Jiang District, Shanghai

4.2 General Description of E.U.T.

Product Description: Portable product with 2.4GHz function
 Brand Name: A-Champs
 Battery: DC 4.5V, 3* AA size batteries

4.3 Technical Specifications:

Operation Frequency:	2450MHz
Modulation Technique:	GFSK
Number of Channel:	1
Antenna Type:	PIFA Antenna
Antenna Gain	0 dBi

4.4 Description of Support Units

The EUT has been tested independently.

4.5 Test Mode

Test Mode	Description of Test Mode
Engineering Mode	Keeps EUT working in continuous transmitting mode

4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively.



4.8 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	$< \pm 1 \times 10^{-5}$
2	Total RF power, conducted	$< \pm 1.5 \text{ dB}$
3	RF power density, conducted	$< \pm 3 \text{ dB}$
4	Spurious emissions, conducted	$< \pm 3 \text{ dB}$
5	All emissions, radiated	$< \pm 6 \text{ dB}$ (Below 1GHz) $< \pm 6 \text{ dB}$ (Above 1GHz)
6	Temperature	$< \pm 1^{\circ}\text{C}$
7	Humidity	$< \pm 5 \%$
8	DC and low frequency voltages	$< \pm 3 \%$

5 Equipments Used during Test

No.	Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
1	Power Meter	R&S	NRP	SHEM057-1	2016-01-14	2017-01-13
2	Power Meter Sensor	R&S	NRP-Z22	SHEM136-1	2016-08-12	2017-08-11
3	Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2016-01-14	2017-01-13
4	EMI Receiver	R&S	ESU40	SHEM051-1	2016-01-16	2017-01-15
5	EMI Receiver	R&S	ESR7	SHEM162-1	2016-01-14	2017-01-13
6	LISN	SCHWARZBECK	NSLK8127	SHEM061-1	2016-01-14	2017-01-13
7	LISN	EMCO	3816/2	SHEM019-1	2016-01-14	2017-01-13
8	Loop Antenna (9kHz to 30MHz)	R&S	FMZB1519	SHEM135-1	2016-01-18	2017-01-17
9	Broadband Antenna (25MHz to 2GHz)	SCHWARZBECK	VULB9168	SHEM048-1	2016-01-16	2017-01-15
10	Broadband Antenna (25MHz to 3GHz)	R&S	HL562	SHEM010-1	2016-01-16	2017-01-15
11	Horn Antenna (1GHz to 18GHz)	R&S	HF906	SHEM009-1	2016-01-16	2017-01-15
12	Horn Antenna (1GHz to 18GHz)	SCHWARZBECK	BBHA9120D	SHEM050-1	2016-01-16	2017-01-15
13	Horn Antenna (14GHz to 40GHz)	SCHWARZBECK	BBHA 9170	SHEM049-1	2016-01-16	2017-01-15
14	Pre-amplifier (9KHz – 2GHz)	TESEQ	LNA6900	SHEM074-1	2016-01-14	2017-01-13
15	Pre-amplifier (1GHz – 26.5GHz)	SCHWARZBECK	F0118-G40-BZ4	SHEM049-2	2016-01-14	2017-01-13
16	Pre-amplifier (14GHz – 40GHz)	SCHWARZBECK	F1840-G35-BZ3	SHEM050-2	2016-01-14	2017-01-13
17	Low Pass Filter	Mini-Circuits	VLF-2500	SHEM114-1		
18	High Pass Filter	LORCH	5BRX-2400	SHEM155-1	/	/
19	High-low Temperature Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2016-08-15	2017-08-14
20	AC Power Stabilizer	WOCEN	6100	SHEM045-1	2016-01-14	2017-01-13
21	DC Power Supply	QJE	QJ30003SII	SHEM046-1	2016-01-14	2017-01-13
22	Signal Generator (Interferer)	R&S	SMR40	SHEM058-1	2016-08-12	2017-08-11
23	Signal Generator (Blocker)	R&S	SMJ100A	SHEM141-1	2016-01-14	2017-01-13
24	Splitter	ANRITSU CORP	MA1612A	SHEM159-1	/	/
25	Coupler	Mini-Circuits	803-S-1	SHEM113-1	/	/

6 Test Results

6.1 E.U.T. test conditions

Requirements: 15.31(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

Operating Environment:

Temperature:	20.0 -25.0 °C
Humidity:	35-75 % RH
Atmospheric Pressure:	99.2 -102kPa

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

Pursuant to Part 15.31(c) For swept frequency equipment, measurements shall be made with the frequency sweep stopped at those frequencies chosen for the measurements to be reported.

Test frequency channel: 2450MHz

6.2 Antenna Requirement

Standard requirement:

15.203 requirement:

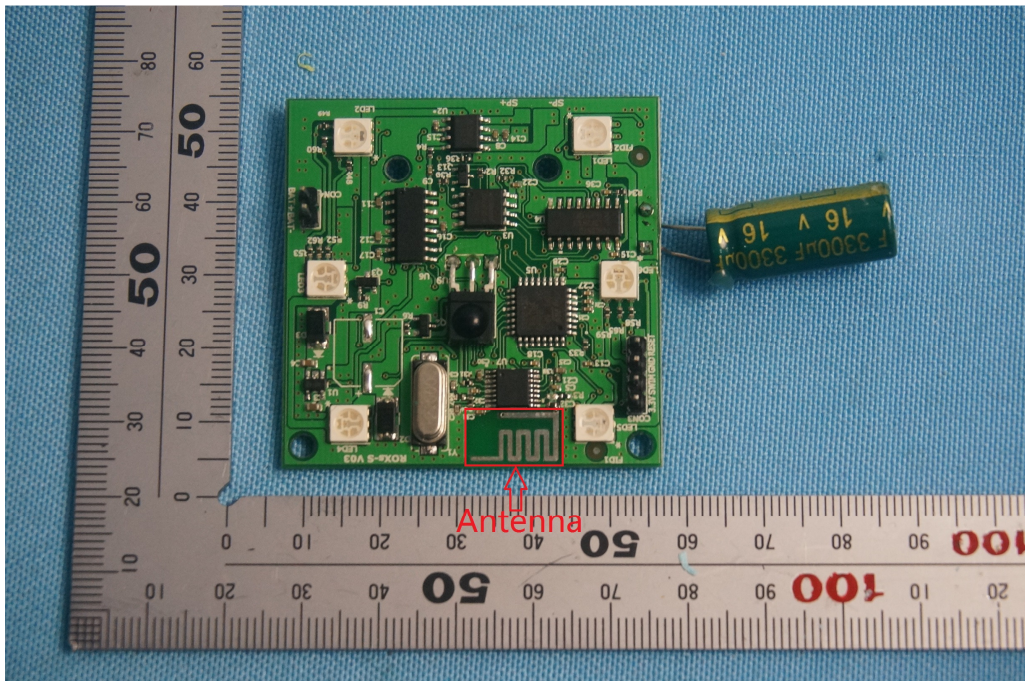
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is PIFA Antenna. The gain of the antenna is less than 0 dBi.



6.3 Conducted Emissions on Mains Terminals

Frequency Range: 150 KHz to 30 MHz

Class/Severity: Class B

Limit:

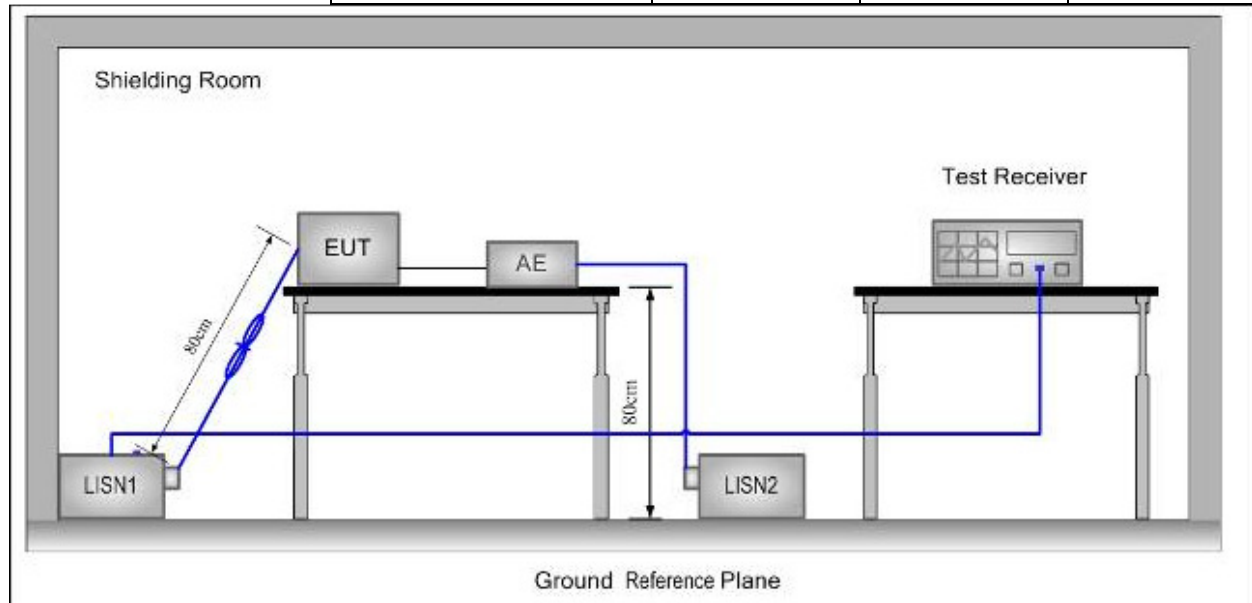
Frequency range MHz	Class B Limits: dB (μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.

Test site/setup: Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
9KHz to 150Hz	Quasi-peak	200Hz	500Hz
150KHz to 30MHz	Quasi-peak	9kHz	30kHz



Test Procedure:

1. The mains terminal disturbance voltage was measured with the EUT in a shielded room.
2. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference

plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.

Remark: Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected. Please see the attached Quasi-peak and Average test results.

Test Result: N/A

Test Data:

Note: This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.

6.4 Field Strength of the Fundamental Signal

Test Site: Measurement Distance: 3m

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Limit:

Frequency	Limit (dBuV/m)	Remark
2400-2483.5 MHz	114	Peak
	94	Average

Test Setup:

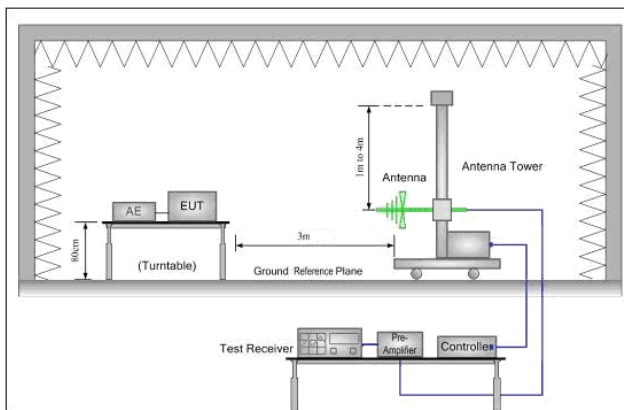


Figure 1. 30MHz to 1GHz

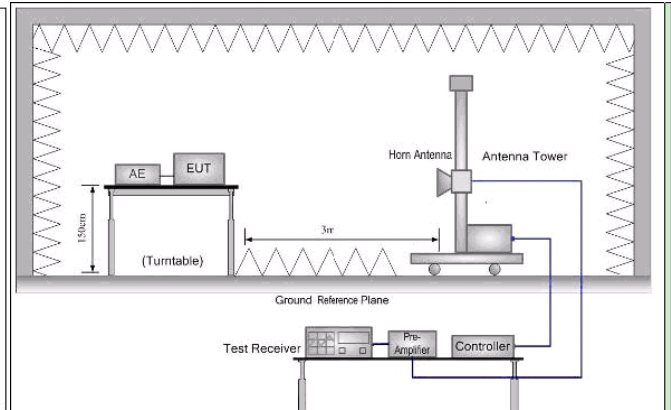


Figure 2. Above 1 GHz

Test Procedure:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Repeat above procedures until all frequencies measured was complete.

Test Results:

Pass



Measurement Data

Frequency (MHz)	Read Level (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Detector	Polarization
2450	95.47	-3.97	91.5	94	-2.50	Peak	Horizontal
	76.71	-3.97	72.74	94	-21.26	Peak	Vertical

Remark:

- 1) The basic equation with a sample calculation is as follows: Level = Read Level + Factor.
(The Factor is calculated by adding the Antenna Factor, Cable Loss and Preamp Factor)
- 2) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

6.5 Radiated Spurious Emissions and Band-edge

Frequency Range: 9KHz to 25GHz

Test site/setup: Measurement Distance: 3m
Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
0.009MHz-0.090MHz	Peak	10kHz	30kHz
0.009MHz-0.090MHz	Average	10kHz	30kHz
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz
0.110MHz-0.490MHz	Peak	10kHz	30kHz
0.110MHz-0.490MHz	Average	10kHz	30kHz
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz
30MHz-1GHz	Quasi-peak	100kHz	300kHz
Above 1GHz	Peak	RBW=1MHz	VBW≥RBW
	Average		VBW=10Hz

Sweep=Auto

15.209 Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)
0.009MHz-0.490MHz	2400/F(KHz)	128.5 ~ 93.8
0.490MHz-1.705MHz	24000/F(KHz)	73.8 ~63.0
1.705MHz-30MHz	30	69.5
30MHz-88MHz	100	40.0
88MHz-216MHz	150	43.5
216MHz-960MHz	200	46.0
960MHz-1GHz	500	54.0
Above 1GHz	500	54.0

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Configuration: Receive antenna scan height 1 m - 4 m. polarization Vertical / Horizontal

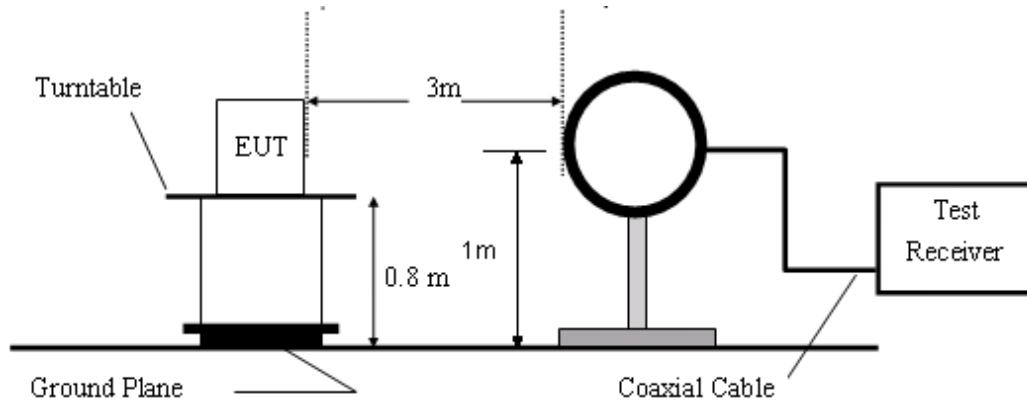


Figure1. 30MHz to 1GHz radiated emissions test configuration

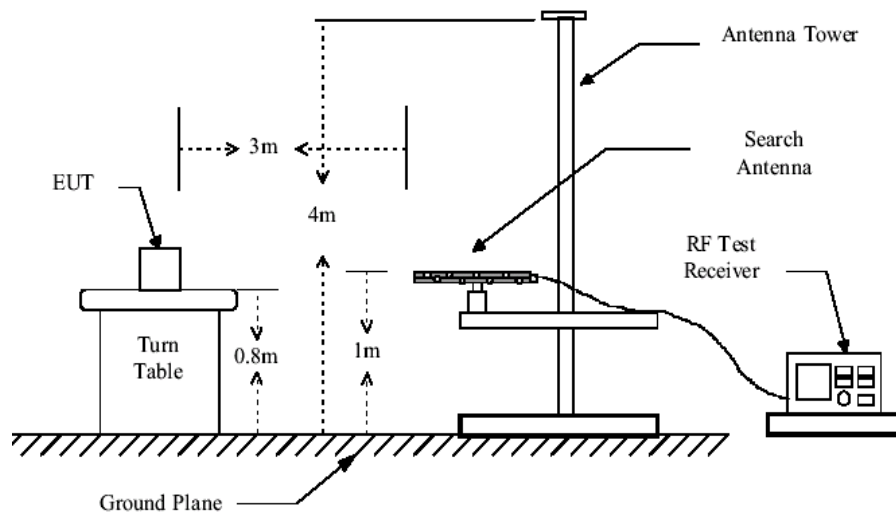


Figure2. 30MHz to 1GHz radiated emissions test configuration

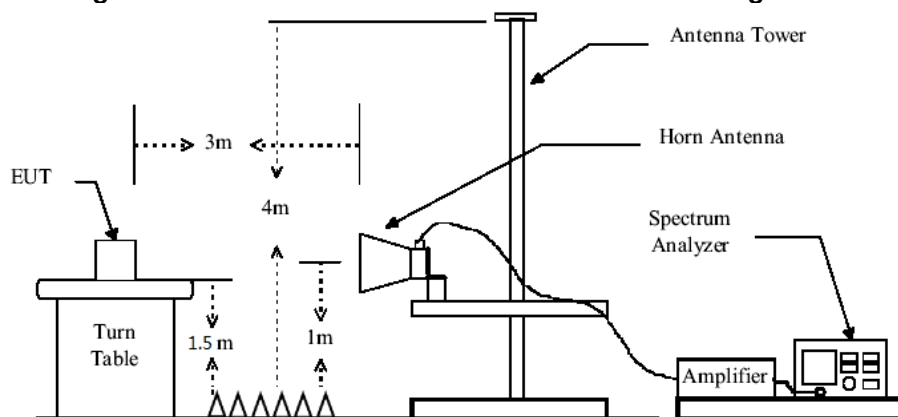


Figure3. Above 1GHz radiated emissions test configuration

Test Procedure: The procedure used was ANSI Standard C63.10:2013. The receiver was scanned from 9KHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz.

Between 1G and 3GHz, we did not use any amplifier or filter.

Pre-test was performed on Antenna A and Antenna B mode, Compliance test was performed on worse case (Antenna A mode).

Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.

- 1) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
- 2) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

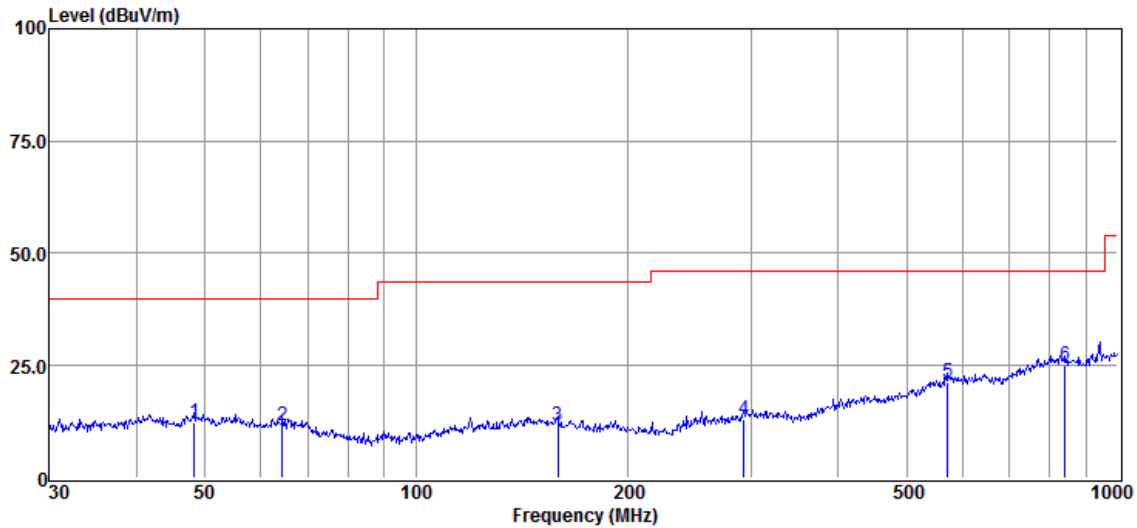
The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.

Test Result: Pass

6.5.1 Radiated Spurious Emissions

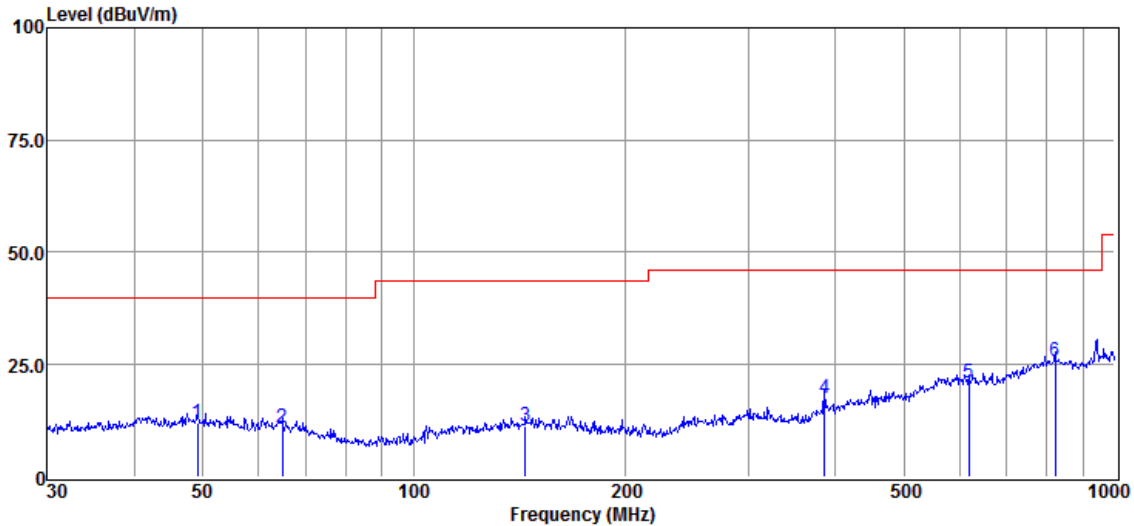
30MHz-1GHz:

Vertical:



Item	Freq.	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	48.33	26.42	13.88	28.80	0.96	12.46	40.00	-27.54	QP
2	64.43	26.53	12.65	28.80	1.22	11.60	40.00	-28.40	QP
3	159.23	26.27	12.14	28.40	1.57	11.58	43.50	-31.92	QP
4	293.08	25.93	12.80	27.90	2.19	13.02	46.00	-32.98	QP
5	572.61	27.20	20.21	29.24	3.19	21.36	46.00	-24.64	QP
6	842.13	26.60	23.64	29.04	3.93	25.13	46.00	-20.87	QP

Horizontal:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	49.19	25.98	13.84	28.80	1.14	12.16	40.00	-27.84	QP
2	64.89	26.02	12.70	28.80	1.22	11.14	40.00	-28.86	QP
3	144.34	25.67	12.53	28.40	1.46	11.26	43.50	-32.24	QP
4	385.28	29.04	14.39	28.54	2.60	17.49	46.00	-28.51	QP
5	618.54	26.60	20.11	29.26	3.35	20.80	46.00	-25.20	QP
6	821.71	27.16	23.72	29.07	3.90	25.71	46.00	-20.29	QP

Above 1GHz:

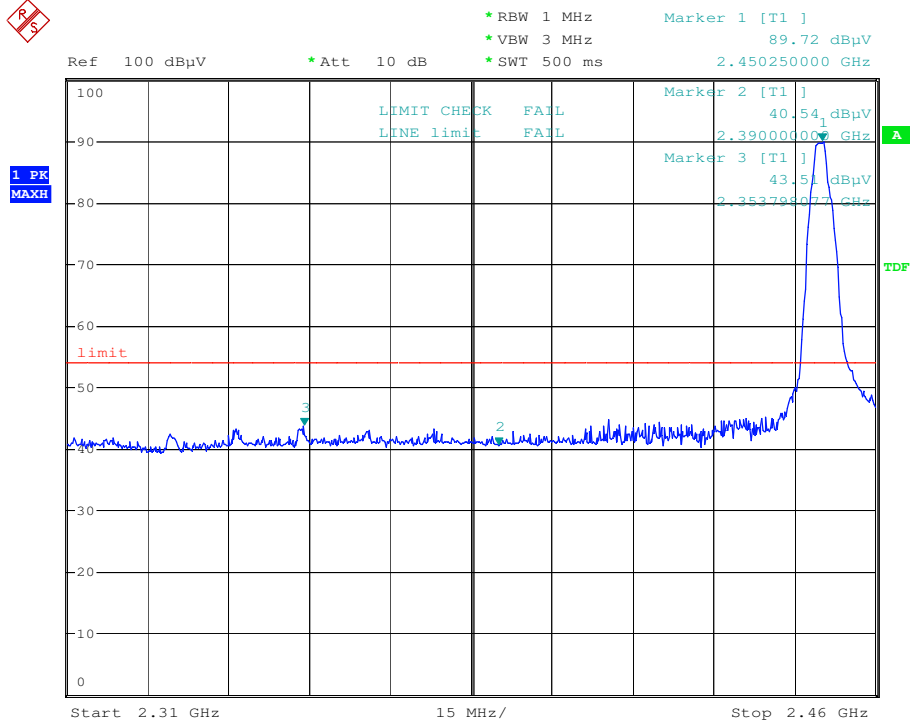
Channel: 2450MHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4900	41.51	7.19	48.7	54	-5.3	peak	Horizontal
2	7350	41.97	11.26	53.23	54	-0.77	peak	Horizontal
3	9800	36.48	14.37	50.85	54	-3.15	peak	Horizontal
4	4900	42.58	7.19	49.77	54	-4.23	peak	Vertical
5	7350	41.22	11.26	52.48	54	-1.52	peak	Vertical
6	9800	35.84	14.37	50.21	54	-3.79	peak	Vertical

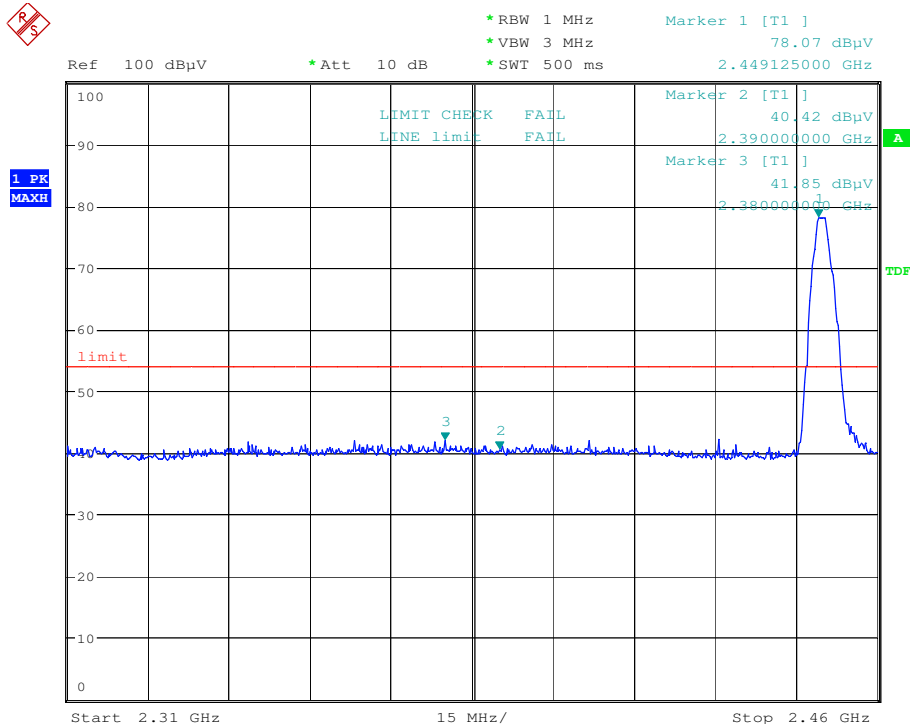
6.5.2 Radiated Band edge

Channel: Lowest

Horizontal:

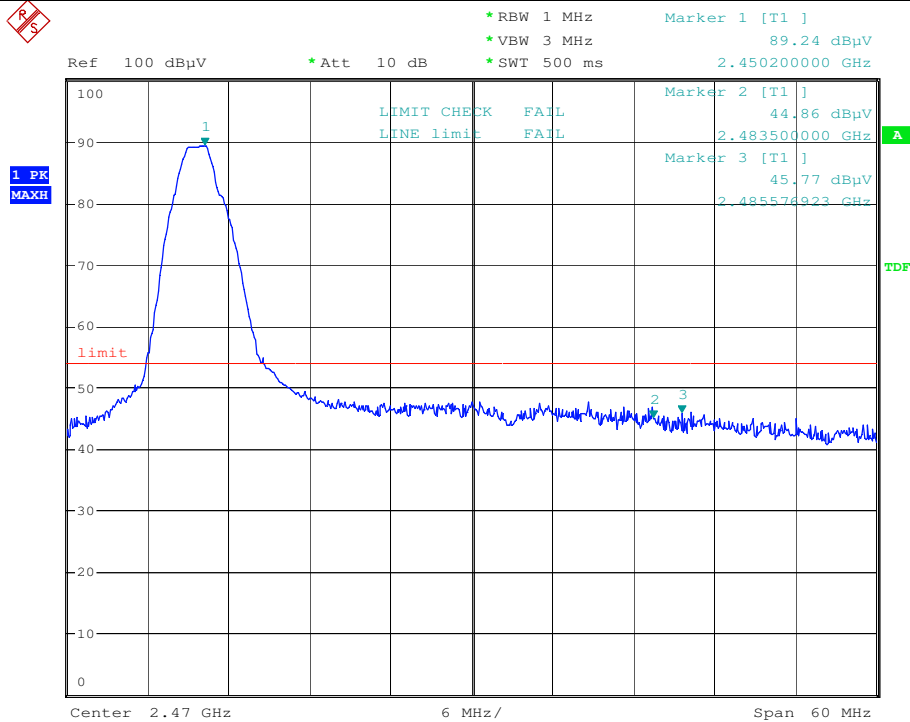


Vertical:

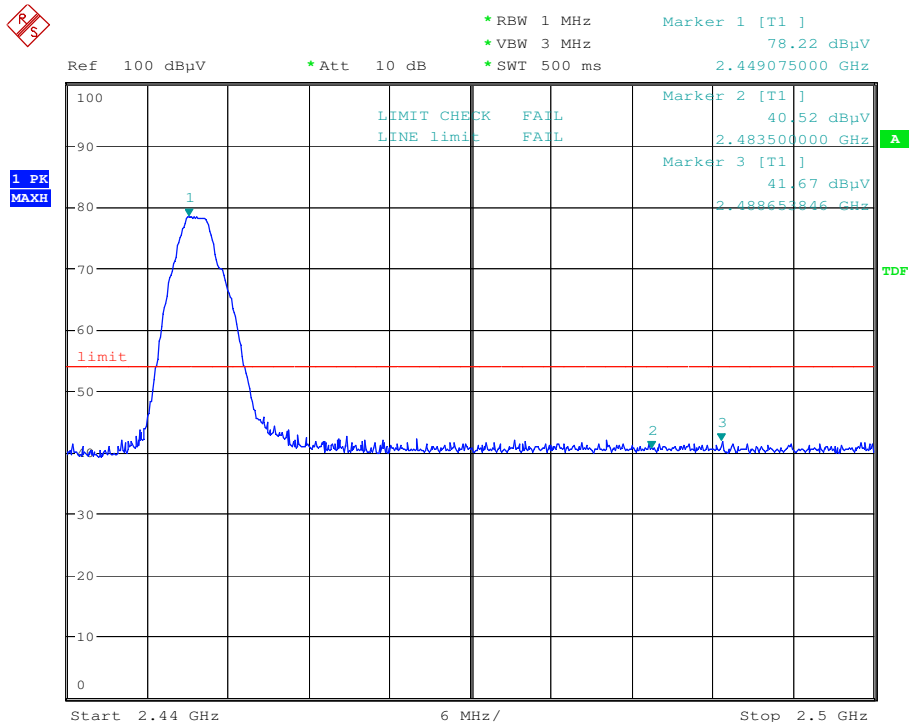


Channel: Highest

Horizontal:



Vertical:



Remark: 1. Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor

2. No any other emission which falls in restricted bands can be detected and be reported.

3. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

All frequencies within the "Restricted bands" have been evaluated to compliance. Section 15.205 Restricted bands of operation.

Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

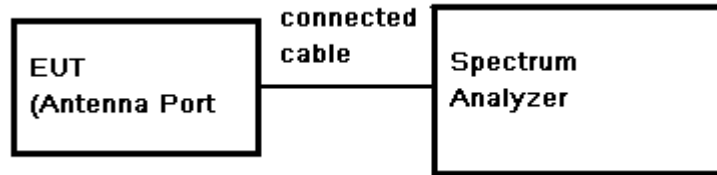
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.5 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

² Above 38.6

6.6 20dB Bandwidth

Test Configuration:



Test Procedure:

1. Place the EUT on the table and set it in Engineering mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = approximately 1 % to 5 % of the OBW (set 30 kHz), VBW =3* RBW, Span=5MHz, Sweep=auto
4. Mark the peak frequency and -20dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured was complete.

Limit:

N/A

Test Result:

Pass

Test Data:

Frequency (MHz)	Bandwidth (MHz)	Result
2450	1.577	PASS

Test plot as follows:

Channel: 2450MHz



7 Test Setup Photographs

Refer to the < ACRXR _Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the < ACRXR _External Photos > & < ACRXR _Internal Photos>.

--End of the Report--