

# FCC 47 CFR PART 15 SUBPART C TEST REPORT

For

Applicant: CYTEK CO., LTD.

104 of No.101 Mabu new Village Xixiang Street Baoan Shenzhen

Address: Guangdong, China

Product Name: RF remote controller

Model Name: ASUS-8037-TX

**Brand Name: N/A** 

FCC ID: AZW-CWT8037TX

Report No.: MTE/EAH/D12020142

Date of Issue: Jan. 20, 2012

Issued by: Most Technology Service Co., Ltd.

No.5, Langshan 2nd Road, North District, Hi-tech Industrial Park, Address:

Nanshan, Shenzhen, Guangdong, China

Tel: 86-755-8617 0306

Fax: 86-755-8617 0310

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# Report No.: MTE/EAH/D12020142

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#### 1. VERIFICATION OF CONFORMITY

**Equipment Under Test:** RF remote controller

Brand Name: N/A

Model Number: ASUS-8037-TX
FCC ID: AZW-CWT8037TX
Applicant: CYTEK CO., LTD

104 of No.101 Mabu new Village Xixiang Street Baoan Shenzhen

Guangdong, China

Manufacturer: CYTEK CO., LTD

104 of No.101 Mabu new Village Xixiang Street Baoan Shenzhen

Guangdong, China

**Technical Standards:** 47 CFR Part 15 Subpart C

File Number: MTE/EAH/D12020142

**Date of test:** Jan. 17, 2012 -Jan. 20, 2012

Deviation:NoneCondition of Test Sample:NormalTest Result:PASS

The above equipment was tested by MOST for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Dona Liu Jan. 17, 2012

Review by (+ signature):

Elva Wong Jan. 20,

Approved by (+ signature):

Yvette Zhou(Manager) Jan. 20 2012

# 2. GENERAL INFORMATION

# 2.1 Product Information

Product	ASUS-8037-TX
Trade Name	N/A
Model Number	ASUS-8037-TX
Series Number:	N/A
Description of Differences:	N/A
Power Supply	DC 3V
Frequency Range	2403MHz -2469MHz
RF Channel	16
Modulation Type	FSK
Antenna Type:	Internal Fixed With 1.672dBi Gain
Channel Number	16(CH Low: 2403MHz, CH Mid: 2432MHz, CH High: 2469MHz)
Temperature Range	-20°C ~ 50°C

# NOTE:

1. Please refer to Appendix I for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

# 2.2 Objective

The objective of the report is to perform tests according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-05 Edition)	Radio Frequency Devices

#### 2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.249(a)	Spurious Emission	PASS	2012-1-17
2	15.249(a)	Band Edge	PASS	2012-1-18
3	15.215	20 dB Bandwidth	PASS	2012-01-20

Note

- 1. The test result judgment is decided by the limit of measurement standard
- 2. The information of measurement uncertainty is available upon the customer's request.

# 2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

# 3. TEST FACILITY 3.1TEST FACILITY

Test Site: Most Technology Service Co., Ltd.

Location: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen,

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR

16 requirements.

The FCC Registration Number is **490827**.
The **IC** Registration Number is **46405-7103**.

The CNAS Registration Number is CNAS L3573.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16

requirements that meet industry regulatory agency and accreditation agency

requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire

area between the EUT and the antenna.

#### 3.2 GENERAL TEST PROCEDURES

#### **EUT Function and Test Mode**

The EUT has been tested under normal operating (TX) and standby (RX) condition.

The following data show only with the worst case setup.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

#### **Conducted Emissions**

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 C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

#### **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 C63.4:2009.

#### 3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) 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
<sup>1</sup> 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	10.6 - 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 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	167.72 - 173.2 240 - 285 322 - 335.4	3332 - 3339 3345.8 - 3358 3600 - 4400	31.2 - 31.8 36.43 - 36.5 ( <sup>2</sup> )

<sup>&</sup>lt;sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

<sup>&</sup>lt;sup>2</sup> Above 38.6

# 4. SETUP OF EQUIPMENT UNDER TEST

# **4.1 SUPPORT EQUIPMENT**

Device Type	Manufacturer	Model Name	Serial No.	Data Cable Power Cable
N/A	N/A	N/A	N/A	N/A

#### Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

# 4.2 TEST EQUIPMENT LIST

**Instrumentation:** The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2012/03/14
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14
4	Terminator	Hubersuhner	50Ω	No.1	2012/03/14
5	RF Cable	SchwarzBeck	N/A	No.1	2012/03/14
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2012/03/14
7	Bilog Antenna	SCHWARZBECK	BBHA9120D	D69250	2012/03/14
8	Cable	Resenberger	N/A	NO.1	2012/03/14
9	Cable	SchwarzBeck	N/A	NO.2	2012/03/14
10	Cable	SchwarzBeck	N/A	NO.3	2012/03/14
11	DC Power Filter	DuoJi	DL2×30B	N/A	2012/03/14
12	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2012/03/14
13	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2012/03/14
14	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14
15	Absorbing Clamp	Absorbing Clamp Luthi MDS21		3635	2012/03/14
16	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14
17	AC Power Source	Kikusui	AC40MA	LM003232	2012/03/14
18	Test Analyzer	Kikusui	KHA1000	LM003720	2012/03/14
19	Line Impendence Network	Kikusui	LIN40MA- PCR-L	LM002352	2012/03/14
20	ESD Tester	Kikusui	KES4021	LM003537	2012/03/14
21	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2012/03/14
22	Signal Generator	IFR	2032	203002/100	2012/03/14
23	Amplifier	A&R	150W1000	301584	2012/03/14
24	CDN	FCC	FCC-801-M2-25	47	2012/03/14
25	CDN	FCC	FCC-801-M3-25	107	2012/03/14
26	EM Injection Clamp	FCC	F-203I-23mm	403	2012/03/14
27	RF Cable	MIYAZAKI	N/A	No.1/No.2	2012/03/14
28	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2012/03/14
29	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2012/03/14
30	Telecommunication Test Equipment	R&S	CMU200	N/A	2012/03/14
31	Loop Antenna	SCHWARZBECK	BBHA9120D	D69250	2012/03/14

NOTE: Equipments listed above have been calibrated and are in the period of validation.

# 5. 47 CFR Part 15C 15.249 Requirements

# **5.1 Spurious Emission Test**

# 5.1.1 Requirement

According to FCC section 15.249(a):

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (μV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)		
1.705 - 30.0	30	30		
30 - 88	100	3		
88 - 216	150	3		
216 - 960	200	3		
Above 960	500	3		

**Remark:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

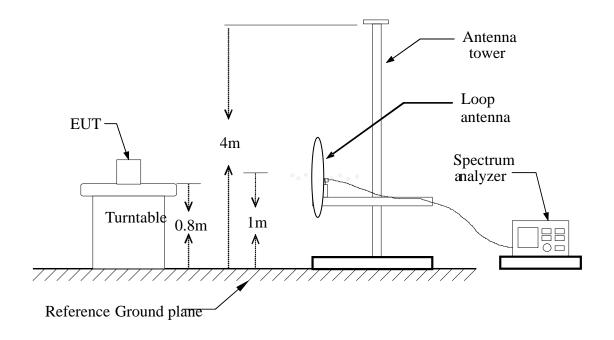
In the above emission table, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

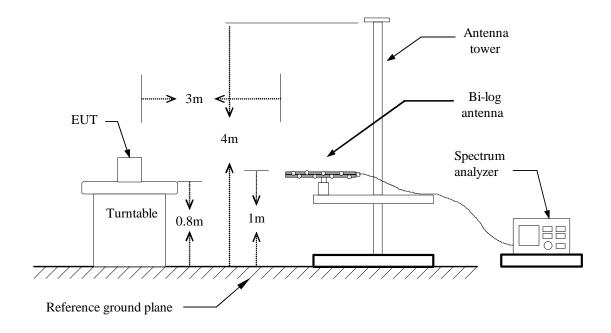
# **5.1.2 Test Description**

**Test Setup:** 

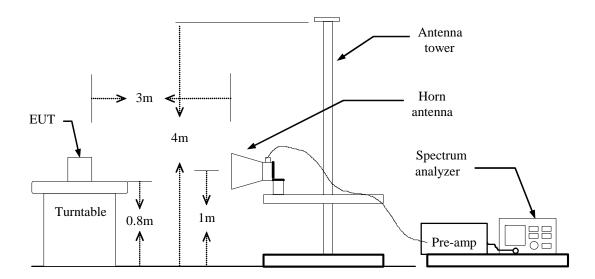
#### Form 9KHz to 30MHz:



# Form 30MHz to 1GHz:



#### **Above 1GHz:**



# 5.1.3 Test Description

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

Preliminary Radiated Emission Test						
Frequency Range In	Frequency Range Investigated 9KHz TO 26 GHz					
Mode of operation	Date	Report No. Data# Worst				
(TX) Mode	2012-01-17	MTE/EAH/D12020142	1_(V, H)			

Note: All the test modes were tested, but only the worst test data was listed on the following description. All modulation like high, mid, low have test, but high is the worst. Following listed is the midTX.

# 5.1.4 Test Result

# Form 9 KHz to 30MHz:

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actual Fs		Peak Limit	AV Limit	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
N/A	Н								>20
N/A	V								>20

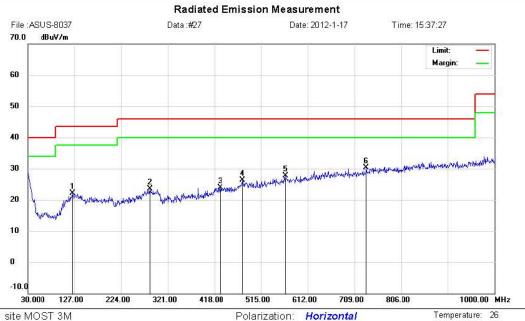
<sup>-</sup>Note: No test data was detected in below 30MHz.

# Form 30MHz to 1000MHz:



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: RF remote Controller M/N: ASUS-8037-TX

Mode: TX Note: MID

Power: DC 3V

Humidity:

61 %

Distance:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		123.1200	4.50	17.62	22.12	43.50	-21.38	QP			
2		284.1399	4.08	19.44	23.52	46.00	-22.48	QP			
3		430.6100	3.59	20.31	23.90	46.00	-22.10	QP			
4		476.1999	4.92	21.47	26.39	46.00	-19.61	QP			
5		565.4400	5.01	22.76	27.77	46.00	-18.23	QP			
6	*	733.2500	5.30	25.06	30.36	46.00	-15.64	QP			

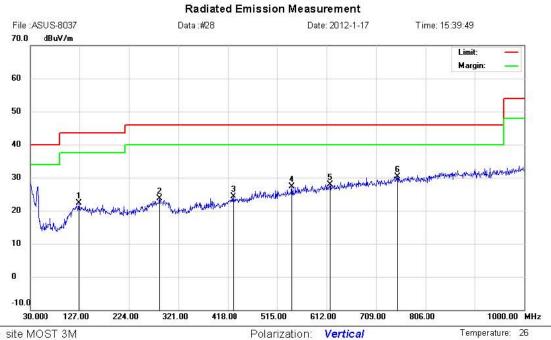
Engineer Signature: Allen

<sup>\*:</sup>Maximum data x:Over limit Lover margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong, China

Tel: 0755-86170306 Fax: 0755-86170310



Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: RF remote Controller

M/N: ASUS-8037-TX

Mode: TX Note: MID Power: DC 3V

Humidity:

61 %

Distance:

No.	Mk	. Fr	eq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		M	Hz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		126.03	300	4.52	17.70	22.22	43.50	-21.28	QP			
2		284.13	399	4.31	19.44	23.75	46.00	-22.25	QP			
3		428.67	700	3.93	20.30	24.23	46.00	-21.77	QP			
4		544.10	000	5.04	22.28	27.32	46.00	-18.68	QP			
5		618.78	399	4.51	23.47	27.98	46.00	-18.02	QP			
6	*	750.7	100	4.49	25.79	30.28	46.00	-15.72	QP			

<sup>\*:</sup>Maximum data x:Over limit !:over margin

**Above 1 GHz** 

Operation Mode: CH Low Test Date: Jan. 17, 2011

Temperature:20°CTested by:Sky GuoHumidity:70 % RHPolarity:Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actual Fs		Peak Limit	AV Limit	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak	Peak AV		(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
2403.01	Н	88.25	67.45	18.97	107.22	86.42	114.00	94.00	-7.58
	-	=	-		-	-			
4806.02	Н	46.78	25.14	23.02	69.80	48.16	74.00	54.00	-5.84
N/A									>20
2403.01	V	85.26	64.79	18.97	104.23	83.76	114.00	94.00	-10.24
4806.02	V	45.74	24.75	23.02	68.76	47.77	74.00	54.00	-6.23
N/A									>20

#### Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
  - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
  - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

**Operation Mode:** CH Mid **Test Date:** Jan. 17, 2012

Temperature:20°CTested by:Sky GuoHumidity:70 % RHPolarity:Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actual Fs Peak AV		Peak Limit	AV Limit	AV Margin
		(dBuV)	(dBuV)	(dB)			(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
2432.01	Н	84.29	64.85	19.01	103.3	83.86	114.00	94.00	-10.14
4864.02	Н	43.95	23.58	23.13	67.08	46.71	74.00	54.00	-7.29
N/A									>20
2432.01	V	84.74	65.23	19.01	103.75	84.24	114.00	94.00	-9.76
4864.02	V	43.46	23.42	23.13	66.59	46.55	74.00	54.00	-7.45
N/A		·							>20

#### Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
  - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
  - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: CH High Test Date: Jan. 17, 2012

Temperature:20°CTested by:Sky GuoHumidity:70 % RHPolarity:Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actual Fs		Peak Limit	AV Limit	AV Margin		
		(dBuV)	(dBuV)	(dB)	Peak AV		(dBuV/m)	(dBuV/m)	(dB)		
					(dBuV/m)	(dBuV/m)					
2469.01	Н	83.16	63.18	19.06	102.22	82.24	114.00	94.00	-11.76		
4938.02	Н	43.08	23.87	23.28	66.36	47.15	74.00	54.00	-6.85		
N/A									>20		
2469.01	V	83.49	62.64	19.06	102.55	81.70	114.00	94.00	-12.30		
4938.02	V	42.18	22.76	23.28	65.46	46.04	74.00	54.00	-7.96		
N/A									>20		

#### Notes:

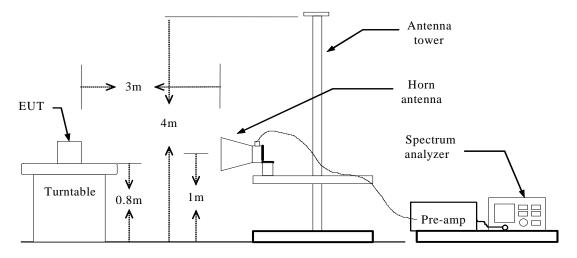
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
  - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
  - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

# 5.2 Band Edge

# 5.2.1 Requirement

According to FCC section 15.249(a), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

# 5.2.2 Test Description

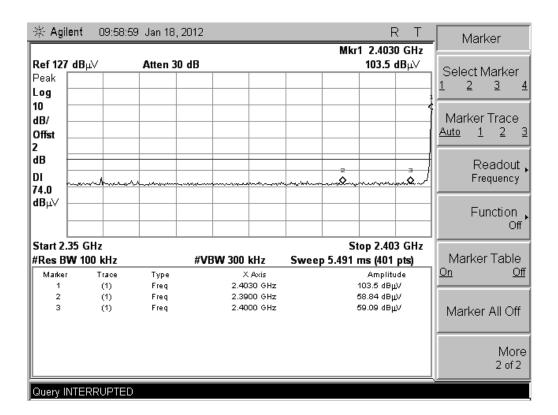


#### 5.2.3Test Result

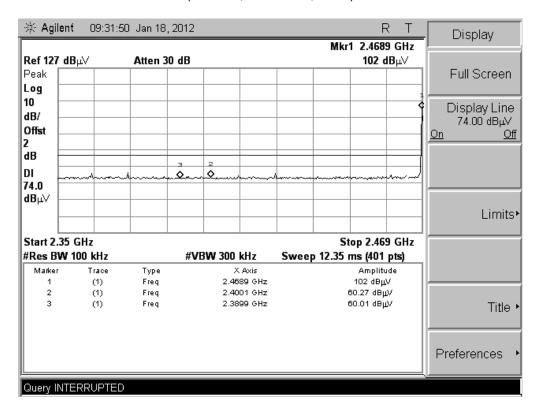
The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.()

				Test Result Highest Emission (dBuv/m)					
Test	Mode	Channel Marked Frequency	Limit (dBuv/m)	Ver	tical	Horizontal			
				Peak	Average	Peak	Average		
	Low	2400MHz		60.27	45.21	59.09	44.39		
RX	Channel	2390MHz	74(Peak)	60.01	47.52	58.84	38.76		
NA	High	2483.5MHz	54(Average)	59.80	35.72	59.95	36.11		
	Channel	2500MHz		58.52	38.16	59.38	37.17		

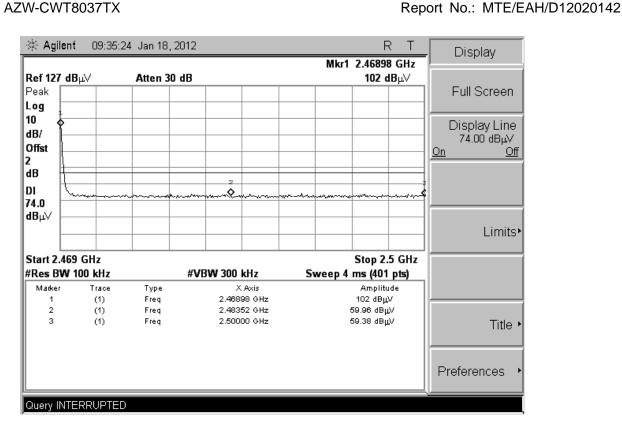
#### **Test Plot:**



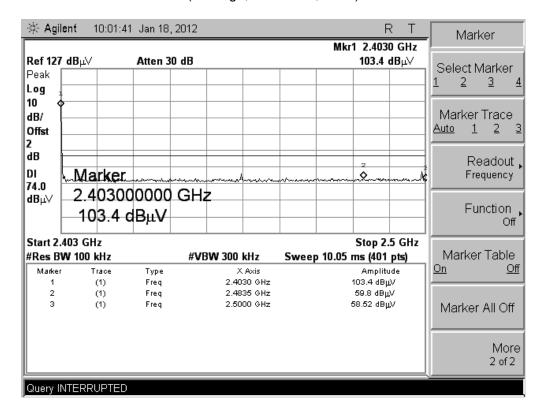
(CH Low, Horizontal, Peak)



(CH Low, Vertical, Peak)



(CH High, Horizontal, Peak)



(CH High, Vertical, Peak)

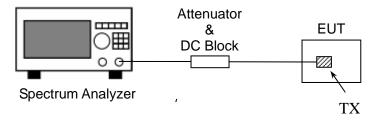
#### 5.3 20 dB Bandwidth

#### 5.3.1 Definition

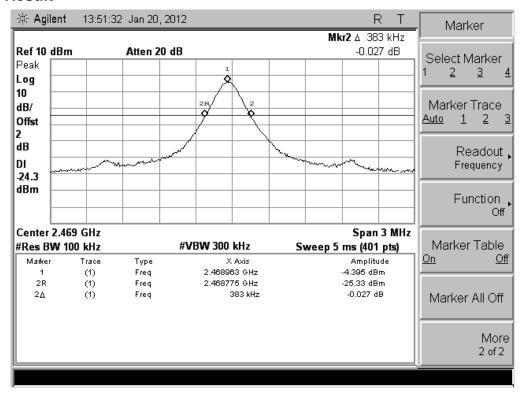
Intentional radiators operating under the alternative provisions to the general emission limits, as Contained in §§15.217 through 15.257 and in sub-part E of this part, must be designed to ensure that the 20 dB Bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific Rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

# 5.3.2 Block Diagram Of Test Setup

The EUT is powered by the Battery, is coupled to the Spectrum Analyzer (SA) through the Attenuator/DC Block. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power. The RF load attached to the EUT antenna terminal is 500hm.

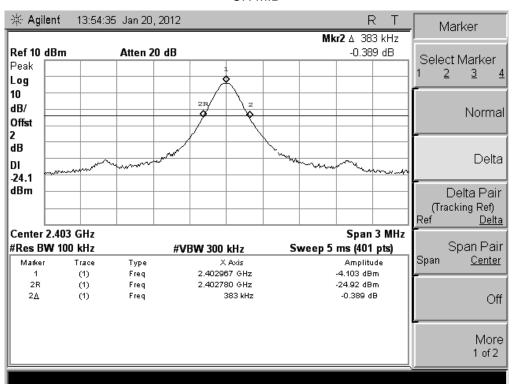


#### 5.3.3 Test Result



**CH HIGH** 

#### **CH MID**

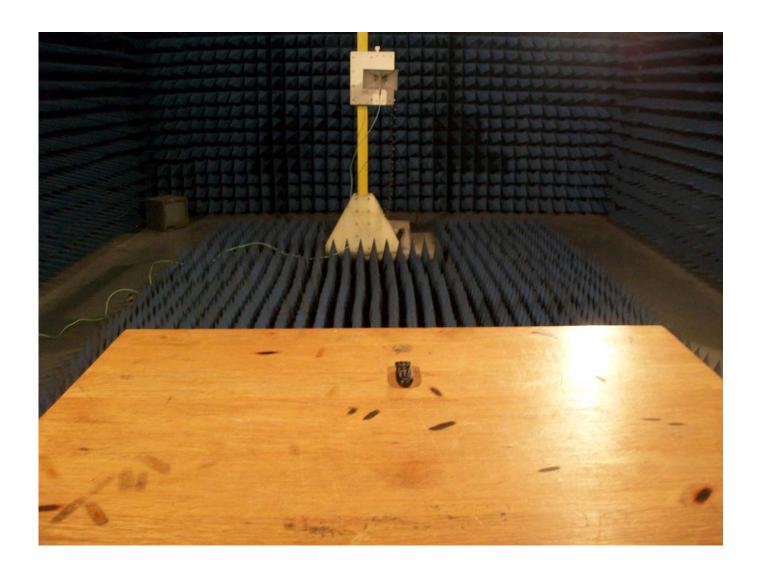


**CH LOW** 

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# APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

# RE TEST SETUP



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