

# Global United Technology Services Co., Ltd.

Report No.: GTS201605000108E02

# FCC REPORT (BT4.0)

Applicant: Furrion Ltd.

**Address of Applicant:** Units 614-615, Level 6, Core D, Cyberport 3, 100 Cyberport

Road, Hong Kong

**Equipment Under Test (EUT)** 

**Product Name: Entertainment System** 

Model No.: DV3300, DV3XXX (where X represents 0-9 or A-Z)

Trade Mark: **Furrion** 

FCC ID: 2ABH3-DV3XXX

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2014

May 23, 2016 Date of sample receipt:

**Date of Test:** May 24-27, 2016

Date of report issued: May 30, 2016

Test Result: PASS \*

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



# Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in

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# 2 Version

Version No.	Date	Description
00	May 30, 2016	Original

Prepared By:	Zdward.Pan	Date:	May 30, 2016	
	Project Engineer	_		
Check By:	And wa	Date:	May 30, 2016	



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# 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10 2013 and ANSI C63.4: 2014

#### 4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty		e Measurement Uncertainty Note	
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)		
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)		
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)		
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)		
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.		

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# **5** General Information

#### 5.1 Client Information

Applicant:	Furrion Ltd.
Address of Applicant:	Units 614-615, Level 6, Core D, Cyberport 3, 100 Cyberport Road, Hong Kong
Manufacturer:	Furrion Ltd.
Address of Manufacturer:	Units 614-615, Level 6, Core D, Cyberport 3, 100 Cyberport Road, Hong Kong

# 5.2 General Description of EUT

Product Name:	Entertainment System
Model No.:	DV3300, DV3XXX (where X represents 0-9 or A-Z)
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation type:	GFSK
Antenna Type:	PCB antenna
Antenna gain:	0.5dBi (declare by Applicant)
Power supply:	DC 12V



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
. :	. !	. !	. !	·	. !	. !	• !
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



#### 5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

#### Pre-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Υ	Z
Field Strength(dBuV/m)	87.52	89.46	88.31

#### 5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC Approval
GS	Supreme maintenance Free	S5D26R-MFZ	9442804454	VoC

#### 5.5 Test Facility

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

#### • FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly describe in a report file with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

#### • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

#### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China

Tel: 0755-27798480 Fax: 0755-27798960

#### 5.7 Description of Support Units

None.

#### 5.8 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrrial Zone,

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# 6 Test Instruments list

Rad	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 27 2016	Mar. 26 2017		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jun 30 2015	Jun 29 2016		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun 30 2015	Jun 29 2016		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jun 30 2015	Jun 29 2016		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015	June 25 2016		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 26 2016	Mar. 25 2017		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2016	Mar. 26 2017		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 27 2016	Mar. 26 2017		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 27 2016	Mar. 26 2017		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 27 2016	Mar. 26 2017		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun. 30, 2015	Jun 29 2016		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun. 30, 2015	Jun 29 2016		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016		
16	Band filter	Amindeon	82346	GTS219	Mar. 27 2016	Mar. 26 2017		

Gen	General used equipment:											
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)						
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016						



#### 7 Test results and Measurement Data

### 7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203

#### 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.

#### **EUT Antenna:**

The antenna is PCB antenna, the best case gain of the antenna is 0.5dBi





#### 7.2 Radiated Emission Method

7.2	Radiated Emission Me	T							
	Test Requirement:	FCC Part15 C S	Section 15.20	9					
	Test Method:	ANSI C63.10:20	013						
	Test Frequency Range:	30MHz to 25GH	łz						
	Test site:	Measurement D	Distance: 3m						
	Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
		30MHz- 1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value			
		Above 1GHz	Peak	1MHz	3MHz	Peak Value			
		Above 1GHz	Peak		10Hz	Average Value			
	Limit:	Freque	ency	Limit (dBuV	/m @3m)	Remark			
	(Field strength of the fundamental signal)	2400MHz-24	183.5MHz	94.0	0	Average Value			
	Limit:	Freque		Limit (dBuV	/m @3m)	Remark			
	(Spurious Emissions)	30MHz-8		40.0		Quasi-peak Value			
	,	88MHz-2		43.5		Quasi-peak Value			
		216MHz-9 960MHz-		46.0 54.0		Quasi-peak Value			
				54.0		Quasi-peak Value Average Value			
		Above 1GHz  74.00  Above 1GHz  74.00  Above 1GHz							
	Test setup:	whichever is the Below 1GHz	e iesser attent	ualion.					
		Sea Ante							

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Report No.: GTS201605000108E02 Above 1GHz Antenna Tower EUT Horn Antenna Spectrum Analyzer Turn Table Amplifier Test Procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna 3. 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. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.3 for details Test results: Pass



#### Measurement data:

#### 7.2.1 Field Strength of The Fundamental Signal

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	90.22	27.58	5.39	34.01	89.18	114.00	-24.82	Vertical
2402.00	85.18	27.58	5.39	34.01	84.14	114.00	-29.86	Horizontal
2440.00	90.51	27.48	5.43	33.96	89.46	114.00	-24.54	Vertical
2440.00	84.61	27.48	5.43	33.96	83.56	114.00	-30.44	Horizontal
2480.00	89.60	27.52	5.47	33.92	88.67	114.00	-25.33	Vertical
2480.00	83.84	27.52	5.47	33.92	82.91	114.00	-31.09	Horizontal

#### Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	80.53	27.58	5.39	34.01	79.49	94.00	-14.51	Vertical
2402.00	75.51	27.58	5.39	34.01	74.47	94.00	-19.53	Horizontal
2440.00	80.54	27.48	5.43	33.96	79.49	94.00	-14.51	Vertical
2440.00	74.01	27.48	5.43	33.96	72.96	94.00	-21.04	Horizontal
2480.00	79.56	27.52	5.47	33.92	78.63	94.00	-15.37	Vertical
2480.00	74.18	27.52	5.47	33.92	73.25	94.00	-20.75	Horizontal

Remark: RBW 3MHz, VBW 10MHz , peak detector for PK value, RBW 3MHz, VBW 10MHz AV detector for AV value



#### 7.2.2 Spurious emissions

#### ■ Below 1GHz

= below 16112											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
96.10	41.55	14.90	1.16	29.72	27.89	43.50	-15.61	Vertical			
128.11	45.55	11.22	1.42	29.52	28.67	43.50	-14.83	Vertical			
224.52	44.33	13.41	1.99	29.43	30.30	46.00	-15.70	Vertical			
287.99	44.95	14.84	2.31	29.92	32.18	46.00	-13.82	Vertical			
480.53	38.16	18.07	3.22	29.34	30.11	46.00	-15.89	Vertical			
609.92	35.40	20.48	3.76	29.29	30.35	46.00	-15.65	Vertical			
96.10	38.24	14.90	1.16	29.72	24.58	43.50	-18.92	Horizontal			
143.83	44.86	10.22	1.53	29.44	27.17	43.50	-16.33	Horizontal			
222.95	42.76	13.30	1.98	29.41	28.63	46.00	-17.37	Horizontal			
287.99	47.91	14.84	2.31	29.92	35.14	46.00	-10.86	Horizontal			
383.93	40.98	16.68	2.78	29.57	30.87	46.00	-15.13	Horizontal			
605.66	31.62	20.47	3.74	29.30	26.53	46.00	-19.47	Horizontal			



#### ■ Above 1GHz

Test channel: Lowest channel	Lowest channel
------------------------------	----------------

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	37.84	31.78	8.60	32.09	46.13	74.00	-27.87	Vertical
7206.00	32.19	36.15	11.65	32.00	47.99	74.00	-26.01	Vertical
9608.00	31.79	37.95	14.14	31.62	52.26	74.00	-21.74	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	42.24	31.78	8.60	32.09	50.53	74.00	-23.47	Horizontal
7206.00	33.99	36.15	11.65	32.00	49.79	74.00	-24.21	Horizontal
9608.00	31.26	37.95	14.14	31.62	51.73	74.00	-22.27	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

#### Average value:

Average value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4804.00	26.55	31.78	8.60	32.09	34.84	54.00	-19.16	Vertical	
7206.00	20.81	36.15	11.65	32.00	36.61	54.00	-17.39	Vertical	
9608.00	19.86	37.95	14.14	31.62	40.33	54.00	-13.67	Vertical	
12010.00	*					54.00		Vertical	
14412.00	*					54.00		Vertical	
4804.00	30.84	31.78	8.60	32.09	39.13	54.00	-14.87	Horizontal	
7206.00	23.02	36.15	11.65	32.00	38.82	54.00	-15.18	Horizontal	
9608.00	19.63	37.95	14.14	31.62	40.10	54.00	-13.90	Horizontal	
12010.00	*		·			54.00		Horizontal	
14412.00	*					54.00		Horizontal	

#### Remark:

Xixiang Road, Baoan District, Shenzhen, Guangdong, China

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test channel	l:			Mid	dle			
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	37.71	31.85	8.67	32.12	46.11	74.00	-27.89	Vertical
7320.00	32.10	36.37	11.72	31.89	48.30	74.00	-25.70	Vertical
9760.00	31.71	38.35	14.25	31.62	52.69	74.00	-21.31	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	42.08	31.85	8.67	32.12	50.48	74.00	-23.52	Horizontal
7320.00	33.89	36.37	11.72	31.89	50.09	74.00	-23.91	Horizontal
9760.00	31.17	38.35	14.25	31.62	52.15	74.00	-21.85	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	26.46	31.85	8.67	32.12	34.86	54.00	-19.14	Vertical
7320.00	20.75	36.37	11.72	31.89	36.95	54.00	-17.05	Vertical
9760.00	19.80	38.35	14.25	31.62	40.78	54.00	-13.22	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	30.73	31.85	8.67	32.12	39.13	54.00	-14.87	Horizontal
7320.00	22.95	36.37	11.72	31.89	39.15	54.00	-14.85	Horizontal
9760.00	19.56	38.35	14.25	31.62	40.54	54.00	-13.46	Horizontal
12200.00	*					54.00		Horizontal
14640.00	*					54.00		Horizontal

#### Remark:

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<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test channel	:			Hig	hest						
Peak value:	Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4960.00	35.86	31.93	8.73	32.16	44.36	74.00	-29.64	Vertical			
7440.00	30.87	36.59	11.79	31.78	47.47	74.00	-26.53	Vertical			
9920.00	30.62	38.81	14.38	31.88	51.93	74.00	-22.07	Vertical			
12400.00	*					74.00		Vertical			
14880.00	*					74.00		Vertical			
4960.00	39.86	31.93	8.73	32.16	48.36	74.00	-25.64	Horizontal			
7440.00	32.50	36.59	11.79	31.78	49.10	74.00	-24.90	Horizontal			
9920.00	29.90	38.81	14.38	31.88	51.21	74.00	-22.79	Horizontal			
12400.00	*					74.00		Horizontal			
14880.00	*					74.00		Horizontal			
Average val	ue:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4960.00	24.99	31.93	8.73	32.16	33.49	54.00	-20.51	Vertical			
7440.00	19.75	36.59	11.79	31.78	36.35	54.00	-17.65	Vertical			
9920.00	18.92	38.81	14.38	31.88	40.23	54.00	-13.77	Vertical			
12400.00	*					54.00		Vertical			
14880.00	*					54.00		Vertical			
4960.00	29.07	31.93	8.73	32.16	37.57	54.00	-16.43	Horizontal			
7440.00	21.83	36.59	11.79	31.78	38.43	54.00	-15.57	Horizontal			
9920.00	18.53	38.81	14.38	31.88	39.84	54.00	-14.16	Horizontal			
12400.00	*					54.00		Horizontal			

#### Remark:

14880.00

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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54.00

Horizontal



#### 7.2.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

1 oot onamio	· · ·				Lowest sharmer								
Peak value:													
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit	Polarization					

Lowest channel

#### (dB) (dBuV) (dB) (dB/m) (dB) 27.59 2390.00 41.49 5.38 30.18 44.28 74.00 -29.72 Horizontal 27.58 5.39 Horizontal 2400.00 58.08 30.18 60.87 74.00 -13.13 Vertical 2390.00 41.90 27.59 5.38 30.18 44.69 74.00 -29.31 2400.00 59.96 27.58 5.39 30.18 62.75 74.00 -11.25 Vertical

#### Average value:

Test channel:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	32.35	27.59	5.38	30.18	35.14	54.00	-18.86	Horizontal
2400.00	43.51	27.58	5.39	30.18	46.30	54.00	-7.70	Horizontal
2390.00	32.20	27.59	5.38	30.18	34.99	54.00	-19.01	Vertical
2400.00	45.02	27.58	5.39	30.18	47.81	54.00	-6.19	Vertical

Test channel:	Highest channel
---------------	-----------------

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	43.43	27.53	5.47	29.93	46.50	74.00	-27.50	Horizontal
2500.00	42.86	27.55	5.49	29.93	45.97	74.00	-28.03	Horizontal
2483.50	44.04	27.53	5.47	29.93	47.11	74.00	-26.89	Vertical
2500.00	43.73	27.55	5.49	29.93	46.84	74.00	-27.16	Vertical

#### Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	35.16	27.53	5.47	29.93	38.23	54.00	-15.77	Horizontal
2500.00	33.36	27.55	5.49	29.93	36.47	54.00	-17.53	Horizontal
2483.50	36.26	27.53	5.47	29.93	39.33	54.00	-14.67	Vertical
2500.00	33.17	27.55	5.49	29.93	36.28	54.00	-17.72	Vertical

#### Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



# 7.3 20dB Occupy Bandwidth

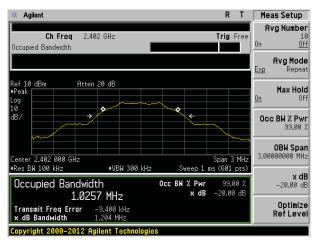
Test Requirement:	FCC Part15 C Section 15.249/15.215		
Test Method:	ANSI C63.10:2013		
Limit:	Operation Frequency range 2400MHz~2483.5MHz		
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

#### **Measurement Data**

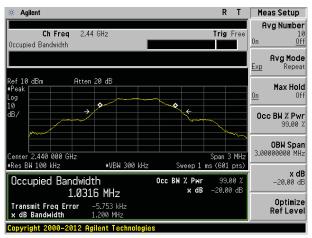
Test channel	20dB bandwidth(MHz)	Result
Lowest	1.204	Pass
Middle	1.200	Pass
Highest	1.206	Pass



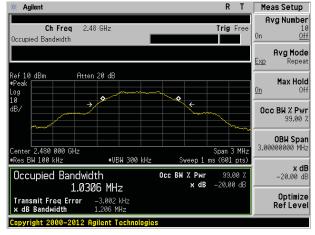
#### Test plot as follows:



#### Lowest channel



#### Middle channel



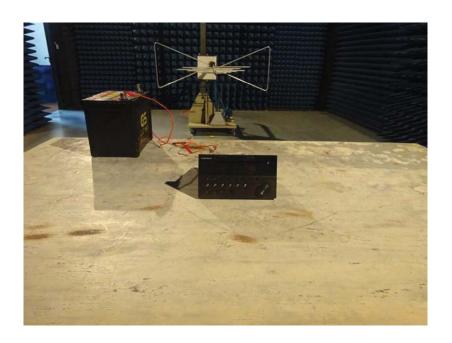
Highest channel



# 8 Test Setup Photo

**Radiated Emission** 

Below 1GHz



Above 1GHz



# 9 EUT Constructional Details

Reference to the test report No. GTS201605000108E01

----- End -----