

# Global United Technology Services Co., Ltd.

Report No.: GTS201609000200E01

## **FCC REPORT**

**Applicant:** BLAUPUNKT INDIA PVT LTD

Address of Applicant: 47, Atlanta Society, Nariman Point, Mumbai 400 021. India

**Equipment Under Test (EUT)** 

Car radio **Product Name:** 

Rio Model No.:

**BLAUPUNKT** Trade Mark:

2AJ8C-RIO FCC ID:

FCC CFR Title 47 Part 15 Subpart C Section 15.249:2015 **Applicable standards:** 

Date of sample receipt: October 22, 2016

Date of Test: October 23-31, 2016

Date of report issued: November 02, 2016

PASS \* Test Result:

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

Authorized Signature:



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 this report.

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### 2 Version

Version No.	Date	Description
00	November 02, 2016	Original

Prepared By:	Yang liu	Date:	November 02, 2016
	Project Engineer		
Check By:	Andy w	Date:	November 02, 2016
	Reviewer		



### 3 Contents

			Page
1	COV	ER PAGE	1
2	VER	RSION	2
3	COI	NTENTS	3
4	TES	T SUMMARY	4
	4.1	MEASUREMENT UNCERTAINTY	
5	GEN	NERAL INFORMATION	5
	5.1	CLIENT INFORMATION	
	5.2 5.3	GENERAL DESCRIPTION OF EUT TEST MODE	
	5.4	DESCRIPTION OF SUPPORT UNITS	7
	5.5 5.6	TEST FACILITY TEST LOCATION	
	5.7	OTHER INFORMATION REQUESTED BY THE CUSTOMER	
6	TES	T INSTRUMENTS LIST	8
7	TES	T RESULTS AND MEASUREMENT DATA	9
	7.1	ANTENNA REQUIREMENT	
	<b>7.2</b> 7.2.	RADIATED EMISSION METHOD	
	7.2. 7.2.		
	7.2.	·	
	7.3	20DB Occupy Bandwidth	
8	TES	ST SETUP PHOTO	20
9	EUT	CONSTRUCTIONAL DETAILS	21



### 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
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.

N/A: Not applicable

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

### 4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes			
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	Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.					



### **5** General Information

### 5.1 Client Information

Applicant:	BLAUPUNKT INDIA PVT LTD
Address of Applicant:	47, Atlanta Society, Nariman Point, Mumbai 400 021. India
Manufacturer/Factor:	Eastern Partner Ltd
Address of	Room 1413,ICC Tower,Fuhua San Road,Futian CBD,Shenzhen
Manufacturer/Factor:	518048,China

### 5.2 General Description of EUT

Product Name:	Car radio
Model No.:	Rio
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	PCB antenna
Antenna gain:	0dBi
Power supply:	DC 12V



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

### 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	2441MHz
The Highest channel	2480MHz



### 5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, 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.

#### Per-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	Х	Υ	Z
Field Strength(dBuV/m)	97.68	99.03	98.12

#### **Final Test Mode:**

The EUT was tested in GFSK,  $\pi$ /4QPSK, 8DPSK modulation, and found the GFSK modulation is the worst case.

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup":

Y axis (see the test setup photo)

### 5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number
GS	Supreme maintenance Free	S5D26R-MFZ	9442804454
PHILIPS	Speaker	GTS6002	N/A

### 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 described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

### • 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, August 15, 2016

### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

### 5.7 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



### 6 Test Instruments list

Radi	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	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	June. 29 2016	June. 28 2017	
4	Loop Antenna	Zhinan	ZN30900A	GTS534	June. 29 2016	June. 28 2017	
5	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	June. 29 2016	June. 28 2017	
6	6 Double-ridged horn antenna SCHWARZBECK		9120D	GTS208	June. 29 2016	June. 28 2017	
7	Horn Antenna	ETS-LINDGREN	3160-09	GTS218	June. 29 2016	June. 28 2017	
8	RF Amplifier	HP	8347A	GTS204	June. 29 2016	June. 28 2017	
9	RF Amplifier	HP	8349B	GTS206	June. 29 2016	June. 28 2017	
10	Broadband SCHWARZBECK Preamplifier		BBV9718	GTS535	June. 29 2016	June. 28 2017	
11	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	June. 29 2016	June. 28 2017	
12	Universal Radio Communication tester	ROHDE&SCHWARZ	CMU 200	GTS538	June. 29 2016	June. 28 2017	
13	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
14	Coaxial Cable	GTS	N/A	GTS210	June. 29 2016	June. 28 2017	
15	Coaxial Cable	GTS	N/A	GTS211	June. 29 2016	June. 28 2017	
16	Coaxial Cable	GTS	N/A	GTS210	June. 29 2016	June. 28 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	June. 29 2016	June. 28 2017						



### 7 Test results and Measurement Data

### 7.1 Antenna requirement

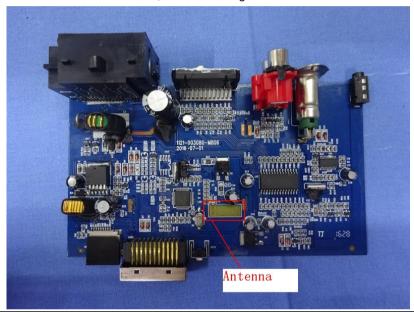
Standard requirement: FCC Part15 C Section 15.203

### 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 0dBi





### 7.2 Radiated Emission Method

1.2	Radiated Ellission Mi	GUIOU								
	Test Requirement:	FCC Part15 C Section 15.209								
	Test Method:	ANSI C63.10:20	ANSI C63.10:2013							
	Test Frequency Range:	30MHz to 25GH	<del>l</del> z							
	Test site:	Measurement D	Distance: 3m							
	Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
		30MHz- 1GHz	Quasi-pea	120KHz	300KHz	Quasi-peak Value				
		Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		Above IGHZ	Peak	1MHz	10Hz	Average Value				
	Limit:	Freque	Frequency Limit (dBuV/m @3m)							
	(Field strength of the	2400MHz-24	2400MHz-2483.5MHz 94.00 Average Value							
	fundamental signal)	114.00 Peak Value								
	Limit:		Frequency Limit (dBuV/m @3m) Remark							
	(Spurious Emissions)	30MHz-88MHz 40.00 Quasi-peak Value								
		88MHz-2 216MHz-9		43.5 46.0		Quasi-peak Value  Quasi-peak Value				
		960MHz-		54.0		Quasi-peak Value				
				54.0		Average Value				
		Above 1	IGHZ	74.0		Peak Value				
	Limit: (band edge)	harmonics, sha	II be attenuat to the genera	ed by at least al radiated em	50 dB belov	bands, except for w the level of the in Section 15.209,				
	Test setup:	Below 1GHz  Company to the second sec								
		Above 1GHz								

Page 10 of 28



Report No.: GTS201609000200E01 < 1m ... 4m > EUT. Tum Table <150cm; Preamplifier-Receiver+ Test Procedure: The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) 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 tower. 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	94.65	27.58	5.39	30.18	97.44	114.00	-16.56	Vertical
2402.00	91.61	27.58	5.39	30.18	94.40	114.00	-19.60	Horizontal
2441.00	92.72	27.55	5.43	30.06	95.64	114.00	-18.36	Vertical
2441.00	90.55	27.55	5.43	30.06	93.47	114.00	-20.53	Horizontal
2480.00	95.97	27.52	5.47	29.93	99.03	114.00	-14.97	Vertical
2480.00	92.44	27.52	5.47	29.93	95.50	114.00	-18.50	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	83.18	27.58	5.39	30.18	85.97	94.00	-8.03	Vertical
2402.00	80.32	27.58	5.39	30.18	83.11	94.00	-10.89	Horizontal
2441.00	81.14	27.55	5.43	30.06	84.06	94.00	-9.94	Vertical
2441.00	78.12	27.55	5.43	30.06	81.04	94.00	-12.96	Horizontal
2480.00	84.69	27.52	5.47	29.93	87.75	94.00	-6.25	Vertical
2480.00	81.07	27.52	5.47	29.93	84.13	94.00	-9.87	Horizontal



### 7.2.2 Spurious emissions

### ■ Below 1GHz

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			
128.11	40.88	11.22	1.42	29.52	24.00	43.50	-19.50	Vertical			
191.75	40.81	12.56	1.80	29.23	25.94	43.50	-17.56	Vertical			
287.99	51.96	14.84	2.31	29.92	39.19	46.00	-6.81	Vertical			
383.93	44.68	16.68	2.78	29.57	34.57	46.00	-11.43	Vertical			
480.53	49.17	18.07	3.22	29.34	41.12	46.00	-4.88	Vertical			
672.85	39.45	20.72	3.99	29.23	34.93	46.00	-11.07	Vertical			
128.11	39.10	11.22	1.42	29.52	22.22	43.50	-21.28	Horizontal			
191.75	37.92	12.56	1.80	29.23	23.05	43.50	-20.45	Horizontal			
256.52	46.88	14.06	2.16	29.70	33.40	46.00	-12.60	Horizontal			
287.99	52.17	14.84	2.31	29.92	39.40	46.00	-6.60	Horizontal			
383.93	41.20	16.68	2.78	29.57	31.09	46.00	-14.91	Horizontal			
480.53	43.32	18.07	3.22	29.34	35.27	46.00	-10.73	Horizontal			



#### ■ Above 1GHz

Test 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	37.04	31.78	8.60	32.09	45.33	74.00	-28.67	Vertical
7206.00	31.65	36.15	11.65	32.00	47.45	74.00	-26.55	Vertical
9608.00	31.31	37.95	14.14	31.62	51.78	74.00	-22.22	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	41.27	31.78	8.60	32.09	49.56	74.00	-24.44	Horizontal
7206.00	33.38	36.15	11.65	32.00	49.18	74.00	-24.82	Horizontal
9608.00	30.71	37.95	14.14	31.62	51.18	74.00	-22.82	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		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
4804.00	25.90	31.78	8.60	32.09	34.19	54.00	-19.81	Vertical
7206.00	20.37	36.15	11.65	32.00	36.17	54.00	-17.83	Vertical
9608.00	19.46	37.95	14.14	31.62	39.93	54.00	-14.07	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	30.10	31.78	8.60	32.09	38.39	54.00	-15.61	Horizontal
7206.00	22.52	36.15	11.65	32.00	38.32	54.00	-15.68	Horizontal
9608.00	19.17	37.95	14.14	31.62	39.64	54.00	-14.36	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

### Remark:

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



Test channel: Middle 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
4882.00	36.80	31.85	8.67	32.12	45.20	74.00	-28.80	Vertical
7323.00	31.50	36.37	11.72	31.89	47.70	74.00	-26.30	Vertical
9764.00	31.17	38.35	14.25	31.62	52.15	74.00	-21.85	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	40.99	31.85	8.67	32.12	49.39	74.00	-24.61	Horizontal
7323.00	33.21	36.37	11.72	31.89	49.41	74.00	-24.59	Horizontal
9764.00	30.55	38.35	14.25	31.62	51.53	74.00	-22.47	Horizontal
12205.00	*					74.00		Horizontal
14646.00	*					74.00		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
4882.00	25.72	31.85	8.67	32.12	34.12	54.00	-19.88	Vertical
7323.00	20.25	36.37	11.72	31.89	36.45	54.00	-17.55	Vertical
9764.00	19.36	38.35	14.25	31.62	40.34	54.00	-13.66	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	29.90	31.85	8.67	32.12	38.30	54.00	-15.70	Horizontal
7323.00	22.39	36.37	11.72	31.89	38.59	54.00	-15.41	Horizontal
9764.00	19.04	38.35	14.25	31.62	40.02	54.00	-13.98	Horizontal
12205.00	*					54.00		Horizontal
14646.00	*					54.00		Horizontal

### Remark:

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



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
4960.00	37.46	31.93	8.73	32.16	45.96	74.00	-28.04	Vertical
7440.00	31.94	36.59	11.79	31.78	48.54	74.00	-25.46	Vertical
9920.00	31.56	38.81	14.38	31.88	52.87	74.00	-21.13	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	41.78	31.93	8.73	32.16	50.28	74.00	-23.72	Horizontal
7440.00	33.70	36.59	11.79	31.78	50.30	74.00	-23.70	Horizontal
9920.00	31.00	38.81	14.38	31.88	52.31	74.00	-21.69	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		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
4960.00	26.34	31.93	8.73	32.16	34.84	54.00	-19.16	Vertical
7440.00	20.67	36.59	11.79	31.78	37.27	54.00	-16.73	Vertical
9920.00	19.73	38.81	14.38	31.88	41.04	54.00	-12.96	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	30.60	31.93	8.73	32.16	39.10	54.00	-14.90	Horizontal
7440.00	22.86	36.59	11.79	31.78	39.46	54.00	-14.54	Horizontal
9920.00	19.48	38.81	14.38	31.88	40.79	54.00	-13.21	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

### Remark:

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



### 7.2.3 Bandedge emissions

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

Test channe	Test 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
2390.00	40.68	27.59	5.38	30.18	43.47	74.00	-30.53	Horizontal
2400.00	57.16	27.58	5.39	30.18	59.95	74.00	-14.05	Horizontal
2390.00	41.02	27.59	5.38	30.18	43.81	74.00	-30.19	Vertical
2400.00	58.96	27.58	5.39	30.18	61.75	74.00	-12.25	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
2390.00	31.73	27.59	5.38	30.18	34.52	54.00	-19.48	Horizontal
2400.00	42.83	27.58	5.39	30.18	45.62	54.00	-8.38	Horizontal
2390.00	31.52	27.59	5.38	30.18	34.31	54.00	-19.69	Vertical
2400.00	44.27	27.58	5.39	30.18	47.06	54.00	-6.94	Vertical

Test channel:				Highest channel					
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)		Level dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	42.52	27.53	5.47	29.93		45.59	74.00	-28.41	Horizontal
2500.00	42.11	27.55	5.49	29.93		45.22	74.00	-28.78	Horizontal
2483.50	43.00	27.53	5.47	29.93		46.07	74.00	-27.93	Vertical
2500.00	42.90	27.55	5.49	29.93		46.01	74.00	-27.99	Vertical
Average val	Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)		Level BuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	34.53	27.53	5.47	29.93		37.60	54.00	-16.40	Horizontal
2500.00	32.84	27.55	5.49	29.93		35.95	54.00	-18.05	Horizontal
2483.50	35.56	27.53	5.47	29.93		38.63	54.00	-15.37	Vertical
2500.00	32.58	27.55	5.49	29.93		35.69	54.00	-18.31	Vertical

#### Remark:

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



### 7.3 20dB Occupy Bandwidth

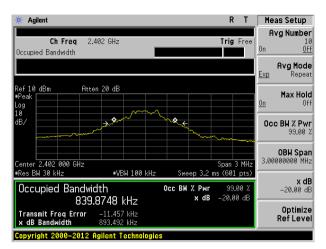
T1 D '1	500 Part 5 0 Oart 1 o 45 040/45 045			
Test Requirement:	FCC Part15 C Section 15.249/15.215			
Test Method:	ANSI C63.10:2013			
Limit:	Operation Frequency range 2400MHz~2483.5MHz			
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

### **Measurement Data**

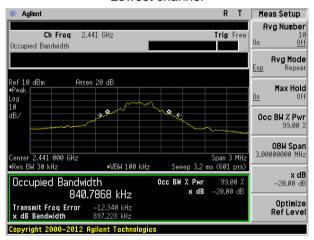
Test channel	20dB bandwidth(MHz)	Result
Lowest	0.893	Pass
Middle	0.897	Pass
Highest	0.898	Pass

Test plot as follows:

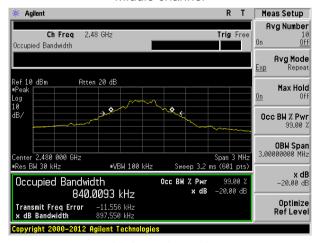




#### Lowest channel



#### Middle channel

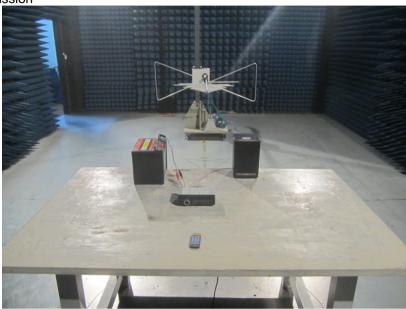


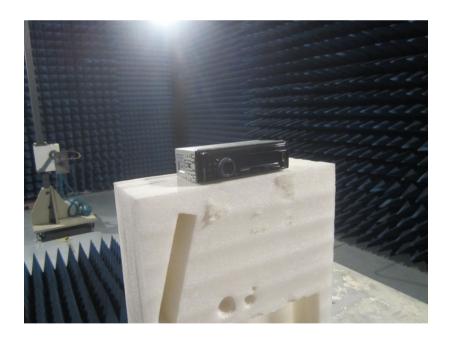
Highest channel



### 8 Test Setup Photo

Radiated Emission

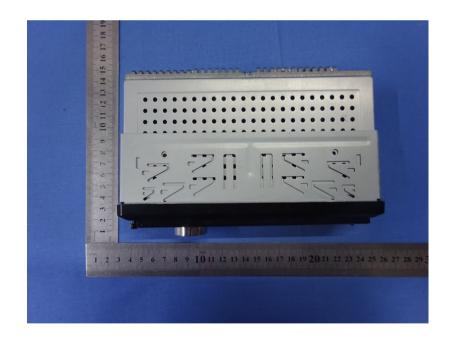






### 9 EUT Constructional Details





















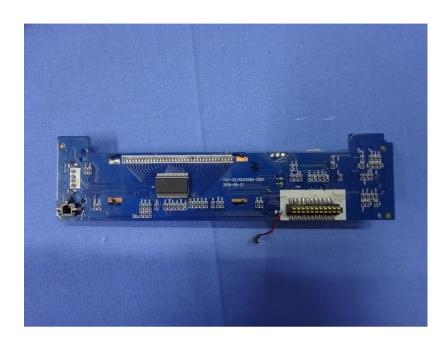


























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