

Global United Technology Services Co., Ltd.

Report No.: GTS201909000020F02

Test Report

Shenzhen Aoedi Technology CO.,Ltd Applicant:

6/F, Block 4.Qiyu Industrial Park, Xixiang Town, Baoan Area, **Address of Applicant:**

Shenzhen, China

Manufacturer/Factory: Shenzhen Aoedi Technology CO.,Ltd

Address of 6/F, Block 4, Qiyu Industrial Park, Xixiang Town, Baoan Area,

Shenzhen, China Manufacturer/Factory:

Equipment Under Test (EUT)

Car Bluetooth FM Transmitter **Product Name:**

Model No.: AD-906, AD-907, AD-908, AD-909, AD-910, AD-912, AD-913,

> AD-915, AD-916, AD-917, AD-918, AD-919, AD960, AD-961, AD-965, AD-966, AD-968, AD-990, AD-993, AD-994, AD-995, AD-996, AD-126, AD-985, AD-986, AD-987, AD-988, AD-969,

AD-969A

2AKL8-AD916 FCC ID:

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

Date of sample receipt: September 05, 2019

Date of Test: September 06-18, 2019

Date of report issued: September 19, 2019

Test Result: PASS *

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

Authorized Signature:

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	September 19, 2019	Original

Prepared By:	Bic. July	Date:	September 19, 2019	
	Project Engineer			

Dill Allan

Reviewer

Check By: Date: September 19, 2019



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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	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

Remarks:

- 1. N/A: not applicable.
- 2. Test according to ANSI C63.10: 2013.
- 3. Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes		
Radiated Emission	30MHz-200MHz	3.8039dB	(1)		
Radiated Emission	200MHz-1GHz	3.9679dB	(1)		
Radiated Emission	1GHz-18GHz	4.29dB	(1)		
Radiated Emission 18GHz-40GHz 3.30dB					
Note (1): The measurement unc	ertainty is for coverage factor of k	=2 and a level of confidence of	95%.		



5 General Information

5.1 General Description of EUT

Product Name:	Car Bluetooth FM Transmitter		
Model No.:	AD-906, AD-907, AD-908, AD-909, AD-910, AD-912, AD-913, AD-915, AD-916, AD-917, AD-918, AD-919, AD960, AD-961, AD-965, AD-966, AD-968, AD-990, AD-993, AD-994, AD-995, AD-996, AD-126, AD-985, AD-986, AD-987, AD-988, AD-969, AD-969A		
Test Model No.:	AD-916		
Remark: All above models	are identical in the same PCB layout, interior structure and electrical circuits.		
The difference is model nan	ne for commercial purpose.		
Serial No.:	S1258659N		
Hardware Version:	ED-916-AC6922E-V1.0		
Software Version:	ED[916]-6922E(916 CK-3AA6A715)_V1.2		
Test sample(s) ID:	GTS201909000020-1		
Sample(s) Status	Engineered sample		
Operation Frequency:	2402MHz~2480MHz		
Channel numbers:	40		
Channel separation:	2MHz		
Modulation type:	GFSK		
Antenna Type:	Internal antenna		
Antenna gain:	-0.58dBi(declare by applicant)		
Power supply:	Input voltage: DC 12V		
. ower suppry.	USB output: 5V/2.1A		



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



5.2 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	X	Υ	Z
Field Strength(dBuV/m)	91.04	91.31	90.35

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
GS	Lead-acid battery	S5D26R-MFZ	9442804454

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

• 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.

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

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	9.2(L)*6.2(W)* 6.4(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	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 26 2019	June. 25 2020	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 26 2019	June. 25 2020	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 26 2019	June. 25 2020	
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 26 2019	June. 25 2020	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	GTS213	June. 26 2019	June. 25 2020	
9	Coaxial Cable	GTS	N/A	GTS211	June. 26 2019	June. 25 2020	
10	Coaxial cable	GTS	N/A	GTS210	June. 26 2019	June. 25 2020	
11	Coaxial Cable	GTS	N/A	GTS212	June. 26 2019	June. 25 2020	
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 26 2019	June. 25 2020	
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 26 2019	June. 25 2020	
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 26 2019	June. 25 2020	
15	Band filter	Amindeon	82346	GTS219	June. 26 2019	June. 25 2020	
16	Power Meter	Anritsu	ML2495A	GTS540	June. 26 2019	June. 25 2020	
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 26 2019	June. 25 2020	
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 26 2019	June. 25 2020	
19	Splitter	Agilent	11636B	GTS237	June. 26 2019	June. 25 2020	
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 26 2019	June. 25 2020	
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019	
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019	
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019	
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 26 2019	June. 25 2020	

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RF C	RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 26 2019	June. 25 2020	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 26 2019	June. 25 2020	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 26 2019	June. 25 2020	
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 26 2019	June. 25 2020	
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 26 2019	June. 25 2020	
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 26 2019	June. 25 2020	
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 26 2019	June. 25 2020	
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 26 2019	June. 25 2020	

Gene	ral used equipment:										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 26 2019	June. 25 2020					
2	Barometer	ChangChun	DYM3	GTS255	June. 26 2019	June. 25 2020					

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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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna is internal antenna, the best case gain of the antenna is -0.58dBi, reference to the appendix II for details



7.2 Radiated Emission Method

1.2	Radiated Emission Me									
	Test Requirement:	FCC Part15 C S	Section 15.20	9						
	Test Method:	ANSI C63.10:20	013							
	Test Frequency Range:	9kHz to 25GHz								
	Test site:	Measurement D	Distance: 3m							
	Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
		9kHz- 150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value				
		150kHz- 30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value				
		30MHz- 1GHz	Quasi-peak	120KH	z 300KHz	Quasi-peak Value				
		Above 1GHz	Peak	1MHz		Peak Value				
		Above Toriz	Peak	1MHz	10Hz	Average Value				
	Limit:	Freque	ency	Limit (dBı	ıV/m @3m)	Remark				
	(Field strength of the	2400MHz-24	183 5MHz		1.00	Average Value Peak Value				
	fundamental signal)	2400IVII 12 2-	114.00							
	Limit:	Freque			. ,	Remark				
	(Spurious Emissions)	0.009MHz-0			lz) @300m	Quasi-peak Value				
		0.490MHz-1		,	(Hz) @30m @30m	Quasi-peak Value				
		1.705MHz-3	Quasi-peak Value							
		30MHz-8	Quasi-peak Value							
		88MHz-2			@3m	Quasi-peak Value				
		216MHz-9 960MHz-			@3m @3m	Quasi-peak Value				
		900101112	- IGHZ		@3m	Quasi-peak Value Average Value				
		Above 1	1GHz		@3m	Peak Value				
	Limit: (band edge)	harmonics, sha	II be attenuate to the genera	ed by at lea Il radiated e	st 50 dB belo	v bands, except for w the level of the s in Section 15.209,				
	Test setup:	For radiated e	missions fro	s from 9kHz to 30MHz						
		Tum Table Tum Table Im Receivers For radiated emissions from 30MHz to1GHz								
		I i di Tadiated e	11113310113 110	III JOIVII IZ	IO I OI IZ					



Report No.: GTS201909000020F02 Test Antenna < 1m 4m > EUT Tum Table. < 80cm Turn Table Receiver@ Preamplifier For radiated emissions above 1GHz Test Antenna < 1m ... 4m > EUT. Turn Table+ <150cm Preamplifier-Receiver-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 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 5.2 for details Test environment: Temp.: 26 °C Humid.: 56% Press.: 1012mbar **DC 12V** Test voltage: Test results: **Pass**



Measurement data:

Report No.: GTS201909000020F02

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	87.43	27.58	5.39	30.18	90.22	114.00	-23.78	Vertical
2402.00	85.64	27.58	5.39	30.18	88.43	114.00	-25.57	Horizontal
2440.00	86.17	27.55	5.43	30.06	89.09	114.00	-24.91	Vertical
2440.00	84.74	27.55	5.43	30.06	87.66	114.00	-26.34	Horizontal
2480.00	88.25	27.52	5.47	29.93	91.31	114.00	-22.69	Vertical
2480.00	85.72	27.52	5.47	29.93	88.78	114.00	-25.22	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	74.80	27.58	5.39	30.18	77.59	94.00	-16.41	Vertical
2402.00	73.33	27.58	5.39	30.18	76.12	94.00	-17.88	Horizontal
2440.00	73.51	27.55	5.43	30.06	76.43	94.00	-17.57	Vertical
2440.00	70.91	27.55	5.43	30.06	73.83	94.00	-20.17	Horizontal
2480.00	75.23	27.52	5.47	29.93	78.29	94.00	-15.71	Vertical
2480.00	73.22	27.52	5.47	29.93	76.28	94.00	-17.72	Horizontal

Note:RBW 3MHz VBW 10MHz PK detector is for PK value , RMS detector is for AV value

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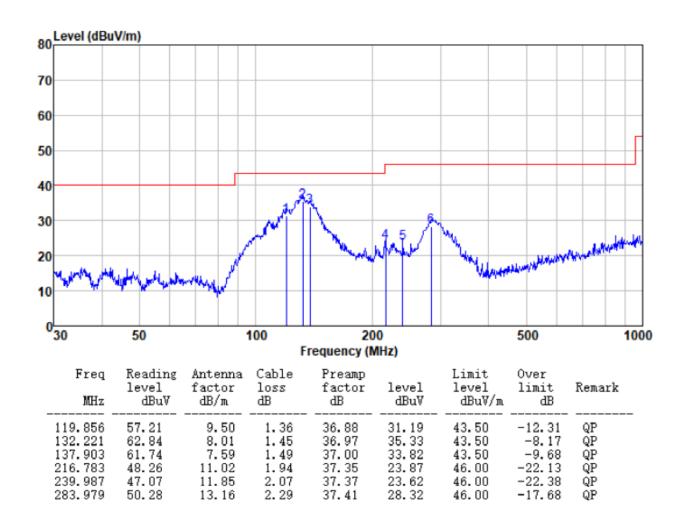
7.2.2 Spurious emissions

■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

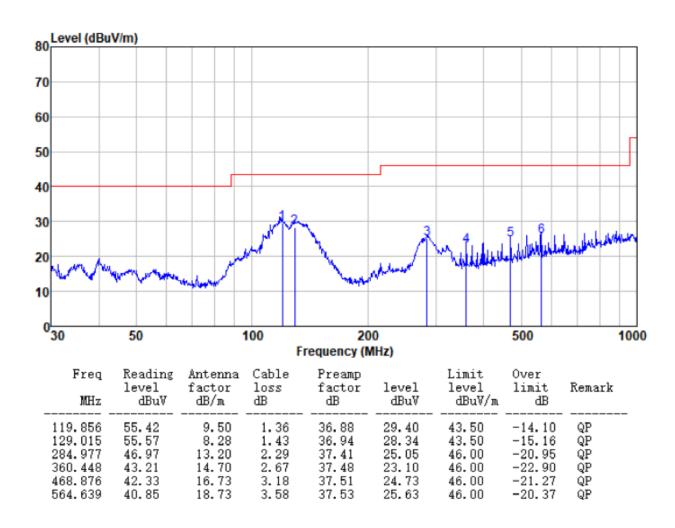
■ Below 1GHz

Horizontal:





Vertical:





■ 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	35.18	31.78	8.60	32.09	43.47	74.00	-30.53	Vertical
7206.00	30.42	36.15	11.65	32.00	46.22	74.00	-27.78	Vertical
9608.00	30.21	37.95	14.14	31.62	50.68	74.00	-23.32	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	39.03	31.78	8.60	32.09	47.32	74.00	-26.68	Horizontal
7206.00	31.99	36.15	11.65	32.00	47.79	74.00	-26.21	Horizontal
9608.00	29.43	37.95	14.14	31.62	49.90	74.00	-24.10	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Average var	uc.							
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	24.39	31.78	8.60	32.09	32.68	54.00	-21.32	Vertical
7206.00	19.35	36.15	11.65	32.00	35.15	54.00	-18.85	Vertical
9608.00	18.56	37.95	14.14	31.62	39.03	54.00	-14.97	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	28.39	31.78	8.60	32.09	36.68	54.00	-17.32	Horizontal
7206.00	21.38	36.15	11.65	32.00	37.18	54.00	-16.82	Horizontal
9608.00	18.11	37.95	14.14	31.62	38.58	54.00	-15.42	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal



Test channe	l:			Mid	dle			
Peak value:				<u> </u>				
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	35.00	31.85	8.67	32.12	43.40	74.00	-30.60	Vertical
7320.00	30.30	36.37	11.72	31.89	46.50	74.00	-27.50	Vertical
9760.00	30.11	38.35	14.25	31.62	51.09	74.00	-22.91	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	38.81	31.85	8.67	32.12	47.21	74.00	-26.79	Horizontal
7320.00	31.85	36.37	11.72	31.89	48.05	74.00	-25.95	Horizontal
9760.00	29.31	38.35	14.25	31.62	50.29	74.00	-23.71	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	24.25	31.85	8.67	32.12	32.65	54.00	-21.35	Vertical
7320.00	19.25	36.37	11.72	31.89	35.45	54.00	-18.55	Vertical
9760.00	18.47	38.35	14.25	31.62	39.45	54.00	-14.55	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	28.22	31.85	8.67	32.12	36.62	54.00	-17.38	Horizontal
7320.00	21.27	36.37	11.72	31.89	37.47	54.00	-16.53	Horizontal
9760.00	18.01	38.35	14.25	31.62	38.99	54.00	-15.01	Horizontal
12200.00	*					54.00		Horizontal
14640.00	*					54.00		Horizontal



Test channel	:			Hig	hest			
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	35.01	31.93	8.73	32.16	43.51	74.00	-30.49	Vertical
7440.00	30.31	36.59	11.79	31.78	46.91	74.00	-27.09	Vertical
9920.00	30.12	38.81	14.38	31.88	51.43	74.00	-22.57	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	38.83	31.93	8.73	32.16	47.33	74.00	-26.67	Horizontal
7440.00	31.86	36.59	11.79	31.78	48.46	74.00	-25.54	Horizontal
9920.00	29.32	38.81	14.38	31.88	50.63	74.00	-23.37	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	24.28	31.93	8.73	32.16	32.78	54.00	-21.22	Vertical
7440.00	19.27	36.59	11.79	31.78	35.87	54.00	-18.13	Vertical
9920.00	18.49	38.81	14.38	31.88	39.80	54.00	-14.20	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	28.25	31.93	8.73	32.16	36.75	54.00	-17.25	Horizontal
7440.00	21.29	36.59	11.79	31.78	37.89	54.00	-16.11	Horizontal
9920.00	18.03	38.81	14.38	31.88	39.34	54.00	-14.66	Horizontal
12400.00	*					54.00		Horizontal
		I						1

Remarks:

14880.00

- 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.

Horizontal

54.00



7.2.3 Bandedge emissions

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

Test channe	el:			Lo	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	
2310.00	38.81	27.59	5.38	30.18	41.60	74.00	-32.40	Horizontal	
2400.00	53.01	27.58	5.40	30.18	55.81	74.00	-18.19	Horizontal	
2310.00	38.97	27.59	5.38	30.18	41.76	74.00	-32.24	Vertical	
2400.00	54.61	27.58	5.40	30.18	57.41	74.00	-16.59	Vertical	
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	
2310.00	30.28	27.59	5.38	30.18	33.07	54.00	-20.93	Horizontal	
2400.00	38.27	27.58	5.40	30.18	41.07	54.00	-12.93	Horizontal	

Test channel:	Highest shappel
l lest channel:	Highest channel

30.18

30.18

32.72

40.93

54.00

54.00

-21.28

-13.07

Vertical

Vertical

Peak value:

2310.00

2400.00

29.93

38.13

27.59

27.58

5.38

5.40

	=							
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	40.43	27.53	5.47	29.93	43.50	74.00	-30.50	Horizontal
2500.00	40.37	27.55	5.49	29.93	43.48	74.00	-30.52	Horizontal
2483.50	40.59	27.53	5.47	29.93	43.66	74.00	-30.34	Vertical
2500.00	40.99	27.55	5.49	29.93	44.10	74.00	-29.90	Vertical

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
2483.50	33.06	27.53	5.47	29.93	36.13	54.00	-17.87	Horizontal
2500.00	31.64	27.55	5.49	29.93	34.75	54.00	-19.25	Horizontal
2483.50	33.93	27.53	5.47	29.93	37.00	54.00	-17.00	Vertical
2500.00	31.22	27.55	5.49	29.93	34.33	54.00	-19.67	Vertical

Remark:

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



7.3 20dB Occupy Bandwidth

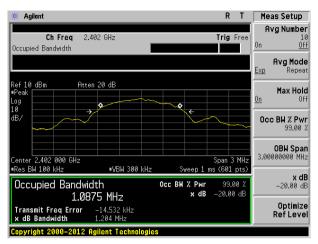
Test Requirement:	FCC Part15 C Section 15.249/15.215		
Test Method:	ANSI C63.10:2013		
Limit:	Operation Frequency range 2400MHz~2483.5MHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement Data

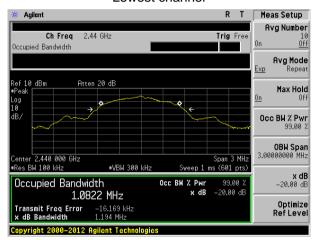
Test channel	20dB bandwidth(MHz)	Result
Lowest	1.204	Pass
Middle	1.194	Pass
Highest	1.200	Pass



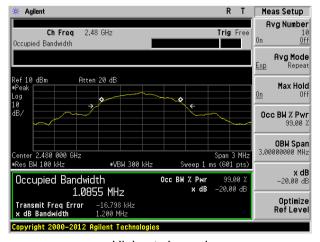
Test plot as follows:



Lowest channel



Middle channel



Highest channel

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8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

-----End-----