



FCC ID: GKR436385 Report No.: T210730W07-RP3 IC: 2533B-436385

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RADIO TEST REPORT FCC 47 CFR PART 15 SUBPART C INDUSTRY CANADA RSS-247

Test Standard	FCC Part 15.247 IC RSS-247 issue 2 and IC RSS-GEN issue 5
Product name	Tablet
Brand Name	ICON/iFit
Model No.	MP7-ARGON2X-C
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

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

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc.(Wugu Laboratory)

Approved by:

Komil Tson

Kevin Tsai Deputy Manager

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	October 5, 2021	Initial Issue	ALL	Allison Chen



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1. GENERAL INFORMATION

1.1 EUT INFORMATION

FCC Applicant	Compal Electronics Inc No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492 Taiwan
IC Applicant	COMPAL ELECTRONICS INC. No. 581 & 581-1, Ruiguang Rd,, Neihu District Taipei R.O.C. 114 Taiwan
Manufacturer	Compal Electronics Inc No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492 Taiwan
Equipment	Tablet
Model No.	MP7-ARGON2X-C
Model Discrepancy	N/A
Trade Name	ICON/iFit
Received Date	July 30, 2021
Date of Test	September 17 ~ 22, 2021
Power Operation	EUT Power from Power Supply. (DC12V)
HW Version	LA-L511P
SW Version	Android 9
EUT Serial #	Conducted Emission: PP41D304791 Radiated Emission: PP41D304792

Remark:

1. For more details, refer to the User's manual of the EUT.

2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.



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1.2 EUT CHANNEL INFORMATION

Frequency Range	802.11b/g/n HT 20: 2412MHz ~ 2462MHz 802.11n HT 40: 2422MHz ~ 2452MHz
Modulation Type	 IEEE 802.11b mode: CCK IEEE 802.11g mode: OFDM IEEE 802.11n HT 20 MHz mode : OFDM IEEE 802.11n HT 40 MHz mode : OFDM
Number of channel	 IEEE 802.11b mode: 11 Channels IEEE 802.11g mode: 11 Channels IEEE 802.11n HT 20 MHz mode : 11 Channels IEEE 802.11n HT 40 MHz mode : 7 Channels

Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 and RSS-GEN Table 1 for test channels

Number of frequencies to be tested				
Frequency range inNumber ofLocation in frequencywhich device operatesfrequenciesrange of operation				
1 MHz or less	1	Middle		
1 MHz to 10 MHz	2	1 near top and 1 near bottom		
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom		

1.3 ANTENNA INFORMATION

Antenna Type	⊠ PIFA □ PCB □ Dipole □ Coils
Antenna Gain	1.95 dBi
Antenna Connector	IPEX

Remark:

1. The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203.



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1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~1G (Horizontally)	+/- 3.91
3M Semi Anechoic Chamber / 30M~1G (Vertically)	+/- 4.57
3M Semi Anechoic Chamber / 1G~6G	+/- 5.20
3M Semi Anechoic Chamber / 6G~18G	+/- 5.18
3M Semi Anechoic Chamber / 18G~40G	+/- 3.68

Remark:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.



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1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	N/A	Not applicable, because EUT doesn't connect to AC Main Source direct.
Radiation	Ray Li	-
RF Conducted	Lance Chen	-

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.6 INSTRUMENT CALIBRATION

3M 966 Chamber Test Site						
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due	
Bilog Antenna	Sunol Sciences	JB3	A030105	07/19/2021	07/18/2022	
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/24/2021	02/23/2022	
Coaxial Cable	EMCI	EMC105	190914+327109/4	09/17/2021	09/16/2022	
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/06/2021	01/05/2022	
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	09/30/2020	09/29/2021	
High Pass Filters	MICRO TRONICS	HPM13195	003	02/08/2021	02/07/2022	
Horn Antenna	ETS LINDGREN	3116	00026370	12/11/2020	12/10/2021	
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/09/2020	12/08/2021	
K Type Cable	Huber+Suhner	SUCOFLEX 102	22470/2	12/09/2020	12/08/2021	
Pre-Amplifier	EMEC	EM330	060609	02/24/2021	02/23/2022	
Pre-Amplifier	HP	8449B	3008A00965	02/25/2021	02/24/2022	
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	08/31/2021	08/30/2022	
Signal Analyzer	R&S	FSV 40	101073	09/15/2021	09/14/2022	
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R	
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R	
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R	
Software	e3 6.11-20180419c					

Remark: Each piece of equipment is scheduled for calibration once a year.



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1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

	EUT Accessories Equipment					
No.	No. Equipment Brand Model Series No. FCC ID					
	N/A					

	Support Equipment					
No.	Io. Equipment Brand Model Series No. FCC ID					
1	Adapter	WEIHAI POWER	HAS060123-EA	N/A	N/A	

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, RSS-247 Issue 2 and RSS-GEN Issue 5



2. TEST SUMMARY

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FCC Standard Section	IC Standard Section	Report Section	Test Item	Result
15.203	RSS-GEN 6.8	1.3	Antenna Requirement	Pass
15.247(d)	RSS-GEN 8.9, 8.10	4.1	Radiation Spurious Emission	Pass
15.247(b)(1)	RSS-247(5.4)(b)	4.2	Output Power Measurement	Pass



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3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode :1Mbps IEEE 802.11g mode :6Mbps IEEE 802.11n HT20 mode :MCS0 IEEE 802.11n HT40 mode :MCS0
Test Channel Frequencies	IEEE 802.11b mode : 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz IEEE 802.11g mode : 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz IEEE 802.11n HT20 mode : 1. Lowest Channel : 2437MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz IEEE 802.11n HT40 mode : 1. Lowest Channel : 2422MHz 2. Middle Channel : 2437MHz 3. Highest
Operation Transmitter	IEEE 802.11b mode :1T1R IEEE 802.11g mode :1T1R IEEE 802.11n HT20 mode : 1T1R IEEE 802.11n HT40 mode : 1T1R

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.



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3.2 THE WORST MODE OF MEASUREMENT

F	Radiated Emission Measurement Below 1G					
Test Condition	Radiated Emission Below 1G					
Power supply Mode	Mode 1: EUT power by Power Supply (1st) Mode 2: EUT power by Power Supply (2nd)					
	Mode 2: EUT power by Power Supply (2nd)					
Worst Mode	🔀 Mode 1 🗌 Mode 2 🗌 Mode 3 🗌 Mode 4					

Remark:

1. The worst mode was record in this test report.

2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Y-Plane) were recorded in this report



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4. TEST RESULT

4.1 RADIATION SPURIOUS EMISSION

4.1.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)				
(MHz)	Transmitters	Receivers			
30-88	100 (3 nW)	100 (3 nW)			
88-216	150 (6.8 nW)	150 (6.8 nW)			
216-960	200 (12 nW)	200 (12 nW)			
Above 960	500 (75 nW)	500 (75 nW)			

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.



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IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

<u>RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and</u> <u>Receivers at Frequencies Above 30 MHz</u> (Note)

Frequency	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)				
(MHz)	Transmitters	Receivers			
30-88	100 (3 nW)	100 (3 nW)			
88-216	150 (6.8 nW)	150 (6.8 nW)			
216-960	200 (12 nW)	200 (12 nW)			
Above 960	500 (75 nW)	500 (75 nW)			

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

<u>RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies</u> <u>Below 30 MHz (Transmit)</u>

Frequency	Magnetic field strength (H-Field) (µA/m)	Measurement Distance (m)
9-490 kHz ^{Note}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



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4.1.2 Test Procedure

Test method Refer as ANSI C63.10:2013

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9KHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

- 5. The SA setting following :
 - (1) Below 1G : RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2) Above 1G:
 - (2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2.2) For Average measurement : RBW = 1MHz, VBW

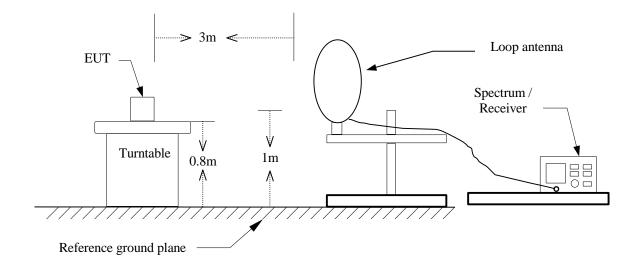
If Duty Cycle \geq 98%, VBW=10Hz.

'If Duty Cycle < 98%, VBW=1/T.

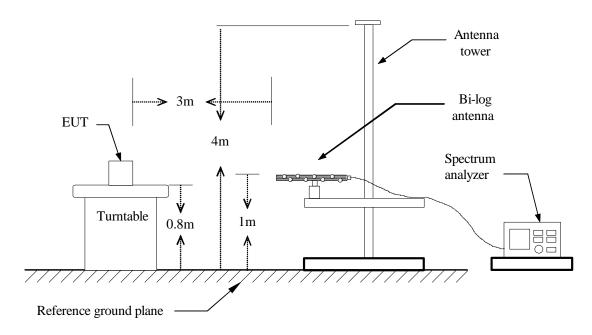


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4.1.3 Test Setup <u>9kHz ~ 30MHz</u>



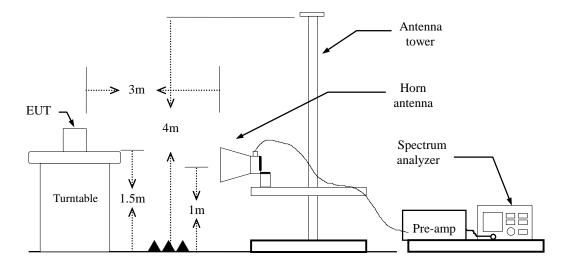
<u>30MHz ~ 1GHz</u>





Above 1 GHz

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4.1.4 Test Result

Below 1G Test Data

	or Bulu							
Test Mod	de	Mode 1		Temp/l	Hum	23.9(℃)/ 55%RH	
Test Iter	n	30MHz-1GHz		-		Septemb	September 22, 202	
Polarize	9	Vertical		Test Eng	gineer		ay Li	
Detecto	r	Peak						
120 Level (dBuV/	/m)							
110								
110								
90					 	 		
70							 	
50								
						5		
30	2	3	•					
		Î						
10								
0 <mark></mark>	224.	418.		612.		806.	1000	
50	224.		equency (M			000.	1000	
Freq.	Detector	Spectrum	Fact		ctual	Limit	Margin	
	Mode	Reading Level			FS	@3m		
MHz	PK/QP/AV	dBµV	dB		βµV/m	dBµV/m	dB	
39.70	Peak	40.44	-9.5		0.90	40.00	-9.10	
141.55	Peak	36.10	-10.0		6.10	43.50	-17.40	
381.14	Peak	29.47	-6.6	8 2	2.79	46.00	-23.21	

381.14	Peak	29.47	-6.68	22.79	46.00	-23.21
474.26	Peak	28.71	-3.51	25.20	46.00	-20.80
807.94	Peak	33.93	1.72	35.65	46.00	-10.35
998.06	Peak	28.03	4.41	32.44	54.00	-21.56

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)



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Test Mod	de	Mode 1	-	Temp/Hum	23.9(°C)/ 55%RI
Test Iter	m	30MHz-1GHz		Test Date	Septemb	oer 22, 20
Polarize		Horizontal	Te	est Engineer	R	ay Li
Detector		Peak				
Louis (JD. 11	11)					
120 <mark>Level (dBuV</mark>	//m)					
110	i 			· · · · · · · · · · · · · · · · · · ·		
90					 	
70						
50						
					5	6
30	-2	3				
10						
0 <mark></mark>	224.	418.		12.	806.	1000
		Free	quency (MHz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
i i oqi	Mode	Reading Level	i dotoi	FS	@3m	ind giri
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
109.54	Peak	31.54	-10.53	21.01	43.50	-22.49
139.61	Peak	37.01	-9.90	27.11	43.50	-16.39
381.14	Peak	28.13	-6.68	21.45	46.00	-24.55
	Peak	32.82	-3.51	29.31	46.00	-16.69
474.26		04.00	1.72	36.04	46.00	-9.96
474.26 807.94	Peak	34.32	1.72			



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Test Mod	le: IEE	E 802.11g Mid 0	СН Т	emp/Hum	23.9(°℃)/ 55%RH
Test Iter		Harmonic		Test Date	Septemb	er 22, 202
Polarize	Э	Vertical	Te	st Engineer	Ra	ay Li
Detecto	or	Peak				
120 Level (dBuV	/m)					
110						
90				·		
70						
50	1			· · · · · · · · · · · · · · · · · · ·		
30						
10					· · · · · · · · · · · · · · · · · · ·	
10						
0 <mark></mark> 1000	6100.	11200. Ereo	16 Juency (MHz)	300.	21400.	26500
		Tree	uency (minz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Peak	33.67	6.38	40.05	74.00	-33.95
7311.00	Peak	32.52	13.80	46.32	74.00	-27.68
N/A						
IN/A		1				
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mod	e: IEE	E 802.11g Mid C	CH T	emp/Hum	23.9(°C)/ 55%R⊦	
Test Iten		Harmonic		Fest Date	Septemb	er 22, 202
Polarize		Horizontal	Tes	st Engineer	Ra	ay Li
Detecto	r	Peak				
120 Level (dBuV/	/m)					
110						
90						
70						
			1			
50	1					
30						
10						
0L 1000	6100.	11200. Free	16 Juency (MHz)	300.	21400.	26500
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	Peak	33.05	6.38	39.43	74.00	-34.57
7311.00	Peak	32.32	13.80	46.12	74.00	-27.88
N/A						
		_ _				

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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4.2 OUTPUT POWER MEASUREMENT

4.2.1 Test Limit

According to §15.247(b) and RSS-247 section 5.4(d),

Peak output power :

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

 Antenna not exceed 6 dBi : 30dBm Antenna with DG greater than 6 dBi :
 [Limit = 30 – (DG – 6)]

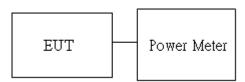
Average output power : For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

- 1. The EUT RF output connected to the power meter by RF cable.
- 2. Setting maximum power transmit of EUT.
- 3. The path loss was compensated to the results for each measurement.
- 4. Measure and record the result of Peak output power and Average output power. in the test report.

4.2.3 Test Setup





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4.2.4 Test Result

Temperature:	24.9 ℃	Test date:	September 17, 2021
Humidity:	58% RH	Tested by:	Lance Chen

Peak Power:

	802.11g	Peak Power Output(dBm)
СН	Fraguanay (MHz)	Data Rate (Mbps)
	Frequency (MHz)	6
1	2412	22.87
6	2437	23.10

Average Power:

	802.11g		802.11g		Average Power Output(dBm)	Average Power + factor(dBm)		
СЦ	Fraguanay (MHz)	Set	Data Rate (Mbps)	Data Rate (Mbps)				
Сп	CH Frequency (MHz)		6	6				
1	2412	17	13.34	13.45				
6	2437	17	15.05	15.16				



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4.3 TEST DATA RE-USE SUMMARY

Introduction Section:

The application re-uses data collected on a similar device. The subject device of this application (Model: MP7-ARGON2X-C, FCC ID: GKR436385, IC: 2533B-436385) is electrically identical to the reference device (Model: MP7-ARGON2-C, FCC ID: GKR425338, IC: 2533B-425338) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

Differences Brief Description:

The WLAN and Bluetooth hardware of this device are identical to the implementation in

FCC ID: GKR436385

IC: 2533B-436385

The Product Equality Declaration document includes detailed information about the changes between the devices. The data from that application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary table below.



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Spot Check Verification Result Summary

Equipment Class	Reference FCC ID / IC No.	Folder Test	Report Title/ Section
DTS-WLAN	GKR425338 / 2533B-425338	T210413W01-RP3	All Section (Except for Radiation Spurious Emission below 1GHz)

Summery of the spot check for Unlicensed bands and Licensed bands

In order to confirm hardware similarity of the subject device with the reference device, we used same setting power to radiated emission measurement were performed on the subject device for the Band edge and Harmonic, the test result were similar with FCC ID: GKR425338 / IC: 2533B-425338.

WLAN

Poport	Test Item	Mode /	Measured	GKR421914 / 2533B-421914			GKR436385 / 2533B-436385			Gap (dB)		
Кероп	Report Test Item CH		Frequency (MHz)	Peak	Average	Ant. Pol.	Peak	Average	Ant. Pol.	Peak	Average	
DTS	Band edge	G / Low	2390	56.89	43.09	Н	55.15	39.56	н	1.74	3.53	
(WLAN)	Emission	G	4874	43.95	N/A	V	40.05	N/A	V	3.9	N/A	
	1G~26.5G	/ Mid	7311	45.74	N/A	V	46.32	N/A	V	-0.58	N/A	

Report Test Item	Mode Ant.		Measured	GKR425338 / 2533B-425338		Measured		36385 / -436385	Gap (dB)		
Report	rest item	с́н.	CH. Pol.	ol. Frequency (MHz)	Peak	Average	Frequency (MHz)	Peak	Average	Peak	Average
DTS (WLAN)	LF	G / Low	н	51.34	36.98	-	807.94	36.04	-	0.94	-

- End of Test Report -