Report No: CCISE181114305

FCC REPORT

Applicant: Interglobe Connection Corp

Address of Applicant: 8228 NW 30th Terrace. Doral, Miami, FL 33122

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: EKO Ara 5.7 A5719

Trade mark: EKO

FCC ID: 2AC7IEKONARA

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 29 Nov., 2018

Date of Test: 30 Nov., to 21 Dec., 2018

Date of report issued: 25 Dec., 2018

Test Result: PASS *

Authorized Signature:



Bruce Zhang 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 CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	25 Dec., 2018	Original

Tested by: Quen (hen Date: 25 Dec., 2018

Test Engineer

Reviewed by: 25 Dec., 2018

Project Engineer





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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass

Remark

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

N/A: The EUT not applicable of the test item.



5 General Information

5.1 Client Information

Applicant: Interglobe Connection Corp	
Address: 8228 NW 30th Terrace. Doral, Miami, FL 33122	
Manufacturer/Factory: INTERGLOBE CONNECTION LTD	
Address: RM 1101 11F SAN TOI BLDG 139 CONNAUGHT RD CENT	

Report No: CCISE181114305

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	EKO Ara 5.7 A5719
Power supply:	Rechargeable Li-ion Battery DC3.85V-2500mAh
AC adapter :	Model: Ara 5.7 B5719 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty	
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)	
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)	
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)	
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)	
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)	



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5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

N/A

5.8 Laboratory Facility

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

• FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366



5.10 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		b
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		



6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
Test Method:	ANSI C63.4:2014		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Lir	mit (dBµV)
	, , , ,	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
	* Decreases with the logarith		
Test setup:	Reference Plan	ne	
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m		
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.) bedance for the mea e also connected to ohm/50uH coupling s to the block diagra e checked for maxim nd the maximum em d all of the interface	. The provide a asuring equipment. the main power through impedance with 50ohm am of the test setup and mum conducted hission, the relative cables must be changed
Test environment:	Temp.: 22.5 °C Humid.: 55% Press.: 101kPa		
Test Instruments:	Refer to section 5.9 for detail	ls	i
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		



Measurement data:

Product name:			EKO Ara 5.7 A5719
Test by:			PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%
80 Level (dBuV)			
80			
70			
60			FCC PART15 B QP
50			FCC PART15 B AV
30/	4 5	9	11
40	the profession of the	MA MALLEN	Mary

Trace: 1

10

.15 .2

.5 1 2 5 10 20 30 Frequency (MHz)

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∇	<u>dB</u>	<u>ā</u> B	dBu₹	dBu∀	<u>d</u> B	
1	0.198	32.83	0.73	10.76	44.32	63.71	-19.39	QP
2	0.198	13.94	0.73	10.76	25.43	53.71	-28.28	Average
3	0.541	15.78	0.76	10.76	27.30	46.00	-18.70	Average
1 2 3 4 5 6 7 8 9	0.555	29.82	0.76	10.76	41.34	56.00	-14.66	QP
5	1.065	29.75	0.78	10.88	41.41	56.00	-14.59	QP
6	1.071	10.60	0.78	10.88	22.26	46.00	-23.74	Average
7	2.540	11.38	0.78	10.94	23.10	46.00	-22.90	Average
8	3.436	27.50	0.77	10.91	39.18	56.00	-16.82	QP
9	4.696	31.91	0.76	10.86	43.53	56.00	-12.47	QP
10	5.031	15.33	0.76	10.85	26.94	50.00	-23.06	Average
11	17.849	29.80	0.70	10.92	41.42	60.00	-18.58	QP
12	19.224	12.97	0.70	10.93	24.60	50.00	-25.40	Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



Product nam			Product model:		EKO Ara 5.7 A5719				
Test by:	· ·			Test mode:	est mode: PC mode				
Test frequen	cy: 1:	150 kHz ~ 30 MHz			Phase:		Neutral		
Test voltage	voltage: AC 120 V/60 Hz		i	Environment:		Temp: 22.5℃	Huni: 55%		
80 Level	(dBuV)						FC	C PART15 B QP	
50 40 30 20	M2/M			VANAMANA WA	**************************************	9 110	**WVV	C PART15 B AV	
0.15 .2 Trace: 3	2	.5	1	2 Frequence	cy (MHz)	5	10	20 30	
Hace, J	Freq	Read Level	LISN Factor	Cable Loss	Level	Limi Lin		Remark	
	MHz	dBuV	₫B	₫B	dBu₹	₫Bu	₹ dB		
1 2 3 4 5 6 7 8 9 10 11	0. 198 0. 299 0. 502 0. 505 1. 100 1. 100 2. 225 2. 237 4. 772 5. 085 17. 849	32.00 19.98 33.07 25.62 30.47 19.40 15.68 28.06 33.49 18.21 26.60 12.09	0.66 0.61 0.61 0.67 0.67 0.67 0.70 0.70 0.69	10.76 10.76 10.76 10.88 10.88 10.95 10.95 10.86 10.85 10.92	31.36 44.44 36.99 42.02 30.95 27.30 39.68 45.05 29.76 38.21	50.2 56.0 46.0 46.0 46.0 56.0 56.0	1 -20.29 8 -18.92 0 -11.56 0 -9.01 0 -13.98 0 -15.05 0 -18.70 0 -16.32 0 -10.95 0 -20.24 0 -21.79 0 -26.30	Average QP Average QP Average Average QP QP Average QP	
Notes:									

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109									
Test Method:	ANSI C63.4:20	ANSI C63.4:2014								
Test Frequency Range:	30MHz to 6000l	30MHz to 6000MHz								
Test site:	Measurement D	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver setup:	Frequency Detector RBW VBW Remark									
	30MHz-1GHz Quasi-peak 120kHz 300kHz Quasi-pea						Quasi-peak Value			
	Above 1GHz Peak 1MHz 3MHz Peak Value									
I inchi.	Frequenc			1MHz (dBuV/m @		1Z 	Average Value Remark			
Limit:	30MHz-88M		LIIIII	40.0	<i>(</i> 3111)		Quasi-peak Value			
	88MHz-216			43.5			Quasi-peak Value			
				46.0						
	Above 1GI	ΗZ		74.0			Peak Value			
Test setup:	960MHz-1GHz 54.0 Quasi-peak Value Above 1GHz 54.0 Average Value									
		Test	Receiver	Pre- Amplifier	Controlle					
				-		II				





Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.							
		t-receiver sys dth with Maxii			ct Function	and Specified		
	6. If the emission level of the EUT in peak mode was 10dB lowe limit specified, then testing could be stopped and the peak val EUT would be reported. Otherwise the emissions that did not margin would be re-tested one by one using peak, quasi-peak average method as specified and then reported in a data sheet							
Test environment:	Temp.:	24 °C	Humid.:	57%	Press.:	1 01kPa		
Test Instruments:	Refer to section 5.9 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							
Remark:	All of the observed value above 6GHz ware the niose floor , which were recorded							

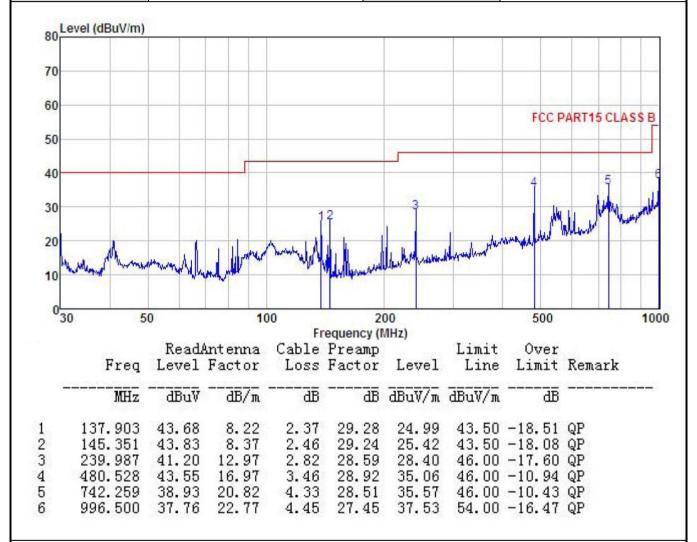




Measurement Data:

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	EKO Ara 5.7 A5719
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



Remark:

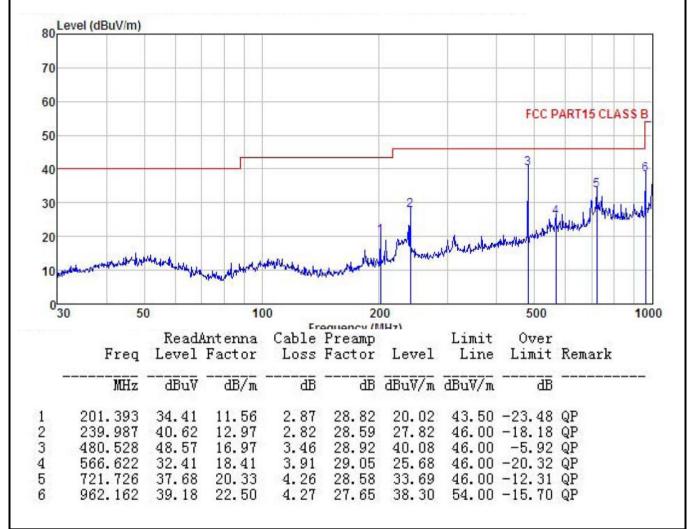
^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Mobile Phone	Product Model:	EKO Ara 5.7 A5719
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



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.





Above 1GHz:

Product Name: Mobile Phone			Product Model:			EKO Ara 5.7 A5719				
Test By	:	Carey			Test mode:			PC mode		
Test Fre	equency:	1 GHz ~ 6	6 GHz		Pola	arization:	V	Vertical		
Test Vo	Itage:	AC 120/6	0Hz		Env	ironment:	Т	Temp: 24°C Huni: 8		%
Leve	el (dBuV/m)									
80 Leve								FCC	PART 15 (PI	()
70										
60								ECC	PART 15 (A)	/\
50									-	
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20		1500		000						
20		1500	2	000 Freq	uency (MH	z)				5000
20		1500 Read!	2 Antenna	000 Freq Cable		z)	Limit	Over		
20	0 1200 Freq	1500 Read/ Level	2 Antenna Factor	000 Freq Cable Loss	uency (MH Preamp Factor	z) Level	Limit Line	Over Limit	5000 6	
20 10 0 1000	0 1200 Freq	1500 Read! Level	2 Antenna Factor — dB/m	000 Freq Cable Loss	uency (MH Preamp Factor dB	z) Level	Limit Line dBuV/m	Over Limit ———————————————————————————————————	5000 6	
20 10 0 1000	0 1200 Freq MHz 4314.907	1500 Read/Level dBuV 46.90	Antenna Factor dB/m 30.78	000 Freq Cable Loss dB	uency (MH Preamp Factor dB 41.90	z) Level dBuV/m 44.66	Limit Line dBuV/m 74.00	Over Limit ———————————————————————————————————	5000 6 Remark	
20 10 0 1000	0 1200 Freq MHz 4314.907 4314.907	1500 Read/ Level dBuV 46.90 36.83	2 Antenna Factor — dB/m 30.78 30.78	000 Freq Cable Loss dB 6.58 6.58	uency (MH Preamp Factor dB 41.90 41.90	z) Level dBuV/m 44.66 34.59	Limit Line dBuV/m 74.00 54.00	Over Limit ———————————————————————————————————	5000 6 Remark Peak Average	
20 10 0 1000	0 1200 Freq MHz 4314.907 4314.907 4971.019	1500 Read! Level dBuV 46.90 36.83 46.67	2 Antenna Factor — dB/m 30.78 30.78 31.86	000 Freq Cable Loss dB 6.58 6.58 6.92	uency (MH Preamp Factor ————————————————————————————————————	z) Level dBuV/m 44.66 34.59 46.07	Limit Line dBuV/m 74.00 54.00 74.00	Over Limit ———————————————————————————————————	5000 6 Remark Peak Average Peak	
20 10 0 1000	0 1200 Freq MHz 4314.907 4314.907	1500 Read/ Level dBuV 46.90 36.83	2 Antenna Factor — dB/m 30.78 30.78	000 Freq Cable Loss dB 6.58 6.58	uency (MH Preamp Factor dB 41.90 41.90	z) Level dBuV/m 44.66 34.59	Limit Line dBuV/m 74.00 54.00 74.00 54.00	Over Limit ———————————————————————————————————	5000 6 Remark Peak Average Peak Average	

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

The emission levels of other frequencies are very lower than the limit and not show in test report.





Product Name:	Mobile Phone Product Model: EKO Ara 5.7				5719		
Гest By:	Carey	Test mo	ode:	PC mode			
Test Frequency:	1 GHz ~ 6 GHz	Polariza	ation:	Horizontal Temp: 24℃ Huni: 57			
Гest Voltage:	AC 120/60Hz	Environ	ment:				
Level (dBuV/m)							
80 Level (dBdV/III)				FCC PA	ART 15 (PK)		
70				1000000			
60				FCC D/	ART 15 (AV)		
50							
40			and and	AL BANK HOLDEN WALKER	MANAMONAMA		
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20							
10							
0 1000 1200	1500 2	000 Frequency (MHz)		5	000 600		

	Freq		Factor				Line	Limit	Remark
	MHz	dBu∜	<u>dB</u> /m	<u>d</u> B	<u>d</u> B	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	4238.283	46.66	30.64	6.47	41.84	44.21	74.00	-29.79	Peak
2	4238.283	36.71	30.64	6.47	41.84	34.26	54.00	-19.74	Average
3	4979.933	47.02	31.87	6.92	41.87	46.43	74.00	-27.57	Peak
4	4979.933	37.66	31.87	6.92	41.87	37.07	54.00	-16.93	Average
5	5935.842	46.95	33.19	7.92	42.04	48.79	74.00	-25.21	Peak
6	5935.842	36.27	33.19	7.92	42.04	38.11	54.00	-15.89	Average

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.