

Report No: JYTSZE201201305V01

FCC REPORT

Applicant:	b mobile HK Limited		
Address of Applicant:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong		
Equipment Under Test (E	EUT)		
Product Name:	Mobile Phone		
Model No.:	AX1076+, AX1078		
Trade mark:	Bmobile		
FCC ID:	ZSW-30-092		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
Date of sample receipt:	07 Dec., 2020		
Date of Test:	08 Dec., 2020 to 05 Jan., 2021		
Date of report issued:	14 Jan., 2021		
Test Result:	PASS*		

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

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 JYT 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	06 Jan., 2021	Original
01	14 Jan., 2021	Update antenna gain.
Democratic		

Remark:

This report was amended on FCC ID: ZSW-30-092 follow FCC Class II Permissive Change. The differences between them as below: change the antenna, memory, and non-transmitter secondary circuit parts, supplement difference test. So the Conducted Emissions and Radiated Emission Method re-test.

Tested by:

Mike.0U

Date:

14 Jan., 2021

Test Engineer

Reviewed by:

Winner thang Date: Project Engineer

14 Jan., 2021



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4 Test Summary

Test Items	Section in CFR 47	Result			
Antenna requirement	15.203 & 15.247 (b)	Pass			
AC Power Line Conducted Emission	15.207	Pass			
Conducted average Output Power	15.247 (b)(3)	Pass*			
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass*			
Power Spectral Density	15.247 (e)	Pass*			
Band Edge	15.247 (d)	Pass*			
Spurious Emission	15.205 & 15.209	Pass			
All measurement data were performed in accordance with ANSI C63.10: 2013 and KDB 558074 D01 15.247 Meas Guidance v05r02 of test method.					

Remark:

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

2. N/A: Not Applicable.

3. Pass*: refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712905.



5 General Information

5.1 Client Information

Applicant:	b mobile HK Limited
Address:Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Stre Kwai Chung; New Territories; Hong Kong	
Manufacturer:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	AX1076+, AX1078
Hardware version:	Bmobile_AX1076+_HW_V1.0
Software version:	Bmobile_AX1076+_TEM_PE_V001
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 72.2Mbps
Antenna Type:	internal Antenna
Antenna gain:	1.8 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2000mAh
AC adapter:	Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 500mA
Remark:	Model No.: AX1076+, AX1078 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel for 802.11b/g/n(H20) Channel Frequency Channe								
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz	
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz	
3 2422MHz 6 2437MHz 9 2452MHz								
Note:								



5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the ELIT in continuous transmitting with modulation

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) 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.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate, the follow list were the worst case.				
Mode Data rate				
802.11b	1Mbps			
802.11g	6Mbps			
802.11n(H20)	6.5Mbps			

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

5.6 Laboratory Facility

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

• FCC - Designation No.: CN1211

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

• ISED – CAB identifier.: CN0021

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

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: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>



5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.110~116, Building B, Jinyuan Business Building, 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

5.8 Test Instruments list

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	07-22-2020	07-21-2021
Loop Antenna	SCHWARZBECK	FMZB1519B	044	03-07-202	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
Hom Antenna	SUNWARZDEUK	DDHA 9170	DDHA9170302	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	١	/ersion: 6.110919	C
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
	Rohde & Schwarz	F0D40	400000	11-18-2019	11-17-2020
Spectrum analyzer	Ronde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	

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	03-05-2020	03-04-2021		
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021		
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021		
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021		
Cable	HP	10503A	N/A	03-05-2020	03-04-2021		
EMI Test Software	AUDIX	E3	١	/ersion: 6.110919t)		



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
15.203 requirement:	
An intentional radiator shall responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohit 15.247(b) (4) requirement: (4) The conducted output po antennas with directional ga section, if transmitting anten power from the intentional radi	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit n be replaced by the user, but the use of a standard antenna jack or bited. wer limit specified in paragraph (b) of this section is based on the use of ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this nas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), ion, as appropriate, by the amount in dB that the directional gain of the
E.U.T Antenna:	
	nal antenna which cannot replace by end-user, the best case gain of the
	TRANIFICAGES ANT



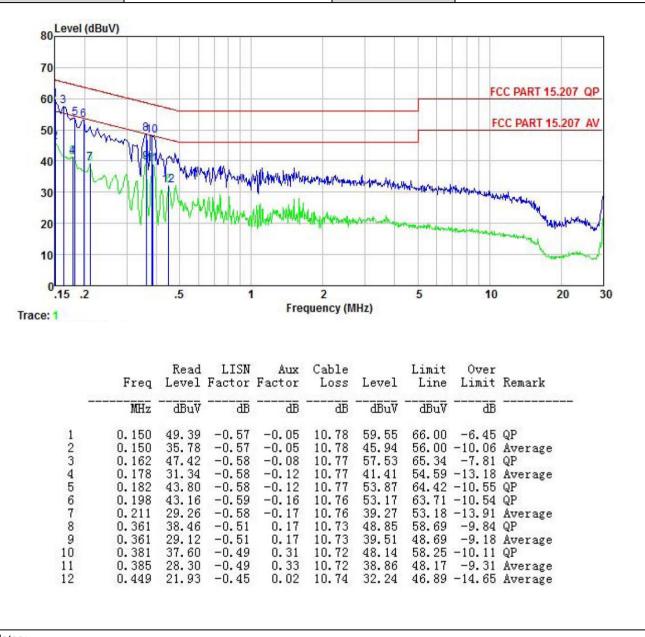
6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 1	5.207			
Test Frequency Range:	150 kHz to 30 MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9 kHz, VBW=30 k	Hz			
Limit:	Frequency range	Limit (dBuV)			
	(MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the loga				
Test procedure	 line impedance stab 50ohm/50uH couplin The peripheral device through a LISN that with 50ohm terminal setup and photograp Both sides of A.C. line interference. In order positions of equipment 	lators are connected to the ilization network (L.I.S.N.) ng impedance for the mea ces are also connected to provides a 500hm/50uH c tion. (Please refer to the b ohs). ne are checked for maxim er to find the maximum em ent and all of the interface to ANSI C63.10: 2013 on the	, which provides a suring equipment. the main power coupling impedance lock diagram of the test um conducted ission, the relative cables must be		
Test setup:	F	Reference Plane			
	LISN AUX Equipment Test table/Insulat Remarkc E.U.T: Equipment Under T LISN: Line Impedence Sta Test table height=0.8m	E.U.T ion plane	l ter AC power 		
Test Instruments:	Refer to section 5.8 for d	etails			
Test mode:	Refer to section 5.3 for d	etails			
Test results:	Passed				



Measurement Data:

Product name:	Mobile Phone	Product model:	AX1076+
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



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.



	Mobile Phon	e	Product m	odel:	AX1076+ Wi-Fi Tx mode Neutral			
Test by:	Mike		Test mode	:				
Test frequency:	150 kHz ~ 30) MHz	Phase:					
Test voltage:	AC 120 V/60	Hz	Environme	ent:	Temp: 22.5℃ Huni: 55%			
80 Level (dBuV) 70 60 3 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 50 40 50 50 50 50 50 50 50 50 50 5					FCC PART 15.2			
15 .2 Trace: 3	.5	1 Fre	2 quency (MHz)	5	10 20	0 30		
Trace: 3	Read Freq Level	Fre LISN Aux Factor Factor	quency(MHz) Cable Loss Level	Limit Line	Over Limit Remark	0 30		
Trace: 3	Read	Fre LISN Aux Factor Factor dB dB	quency (MHz) Cable	Limit	Over	-		



6.3 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Limit:	30dBm
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712905.



6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Limit:	>500kHz
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table
	Ground Reference Plane
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712905.



6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)
Limit:	8dBm/3KHz
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table
	Ground Reference Plane
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712905.



6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712905.



6.6.2 Radiated Emission Method

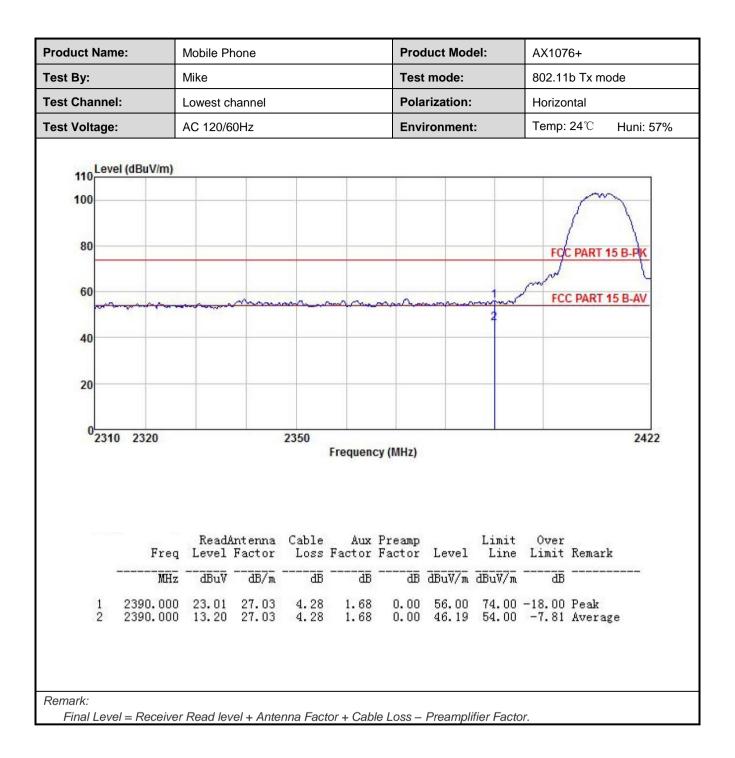
0.0.2	Radiated Emission M								
	Test Requirement:	FCC Part 15 C Section 15.209 and 15.205							
	Test Frequency Range:	2.3GHz to 2.5G	Hz						
	Test Distance:	3m							
	Receiver setup:	Frequency	Detector		RBW		BW	Remark	
		Above 1GHz	Peak RMS		1MHz 1MHz		MHz MHz	Peak Value	
	Limit:	Frequenc		l im				Average Value Remark	
	Linnt.			Limit (dBuV/m @3m) 54.00			Average Value		
		Above 1G	lz –		74.00		Peak Valu		
	Test Procedure:	 the ground to determin The EUT w antenna, w tower. The antenn the ground Both horizo make the m For each su case and th meters and to find the n The test-re Specified B If the emiss the limit spo of the EUT have 10dB 	at a 3 me be the posi- vas set 3 m hich was n hich was n hich was n to determ ontal and w neasurem uspected on hen the an the rota to maximum ceiver sys andwidth sion level of ecified, the would be margin w	ter c ition nete mou s va vertice ent. emis terr able reac ter with of th en terrepoould	camber. The t of the highest rs away from the nted on the to ried from one the maximum cal polarization ssion, the EUT ha was turned fr ding. was set to Pe Maximum Ho e EUT in peak esting could be ported. Otherwise	able w radiation the interpofa metervalue ns of the was a co heig om 0 of ak De old Mode stopp se the pone by	vas rota tion. erference variable to four of the fine anrange thats fror degrees tect Fundes e was 1 bed and emission one us	e-height antenna meters above ield strength. nna are set to d to its worst n 1 meter to 4 s to 360 degrees nction and 0dB lower than d the peak values ons that did not sing peak, quasi-	
	Test setup:		AE EU (Turntable)	ŀ	3m Ground Reference Plane Receiver	rn Antenna	Antenna To	wer	
	Test Instruments:	Refer to section	5.8 for de	etails	6				
	Test mode:	Refer to section	5.3 for de	etails	3				
	Test results:	Passed							
					-				



802.11b mode:

	duct Name: Mobile Phone t By: Mike			F			Product Model:			AX1076+		
est By:					Tes	Test mode:			802.11b Tx mode			
est Channel:		Lowest c	hannel			Pola	arization	:	Vertica	ertical		
Fest Voltage:		AC 120/6	30Hz			Env	Environment:			: 24 ℃	Huni: 57%	
110 ^{Level} (100	(dBuV/m)									~~		
80 60	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Anna		***		m	m	and	C PART 1	l	
40			_	_				2				
20												
2310	2320			2350	Frequen	icy (MHz)		2			2422	
	Freq	ReadA Level	ntenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit		t	
	Freq MHz	ReadA Level 1 dBuV	Factor	Loss	Factor	Preamp Factor dB	Level	Line	Limit	Remark	:	







	Mobile Phone			Pro	duct Mo	del:	AX1076+			
est By:	Mike			Tes	Test mode: Polarization:			802.11b Tx mode Vertical		
est Channel:	Highest channel			Pol						
est Voltage:	AC 120/60Hz			Env	vironmen	it:	Temp	Temp: 24℃ Huni: 57%		
110 Level (dBuV/m) 100 80 60 40 20					2			C PART 1	-	
02452			Frequen	icy (MHz)						
Freq MHz	ReadAntenna Level Factor 	Cable	Aux Factor	Preamp Factor 	Level dBuV/m	Limit Line dBuV/m 74.00	<u>a</u> b	Remark		





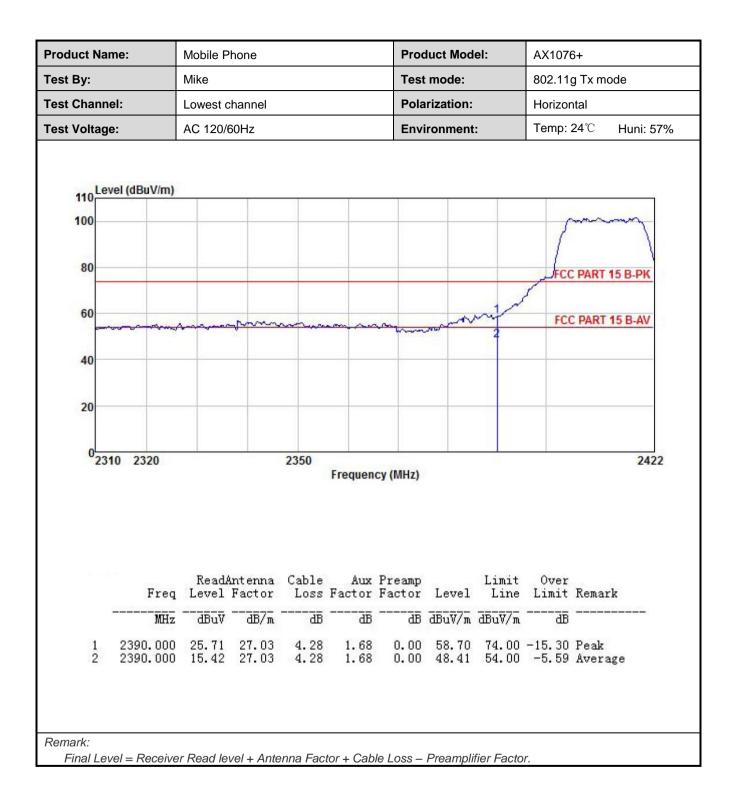
Product Nam	e:	Mobile Phone			Proc	Product Model:			AX1076+			
est By:		Mike				Test	Test mode:			802.11b Tx mode		
Test Channel	:	Highest channel AC 120/60Hz		Pola	Polarization:			Horizontal				
Test Voltage:				Env	ironment	t:	Temp:	24 ℃	Huni: 57%			
110 100 80 60 40	I (dBuV/m)				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	2	~_~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		C PART 1		
20												
02452					Frequenc	cy (MHz)					2500	
		ReadA	ntenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark		
	Freq	rever										
Astronomia (17	Freq MHz		<u>d</u> 8/m	āā	B	āB	dBuV/m	dBu∛/m	dB			



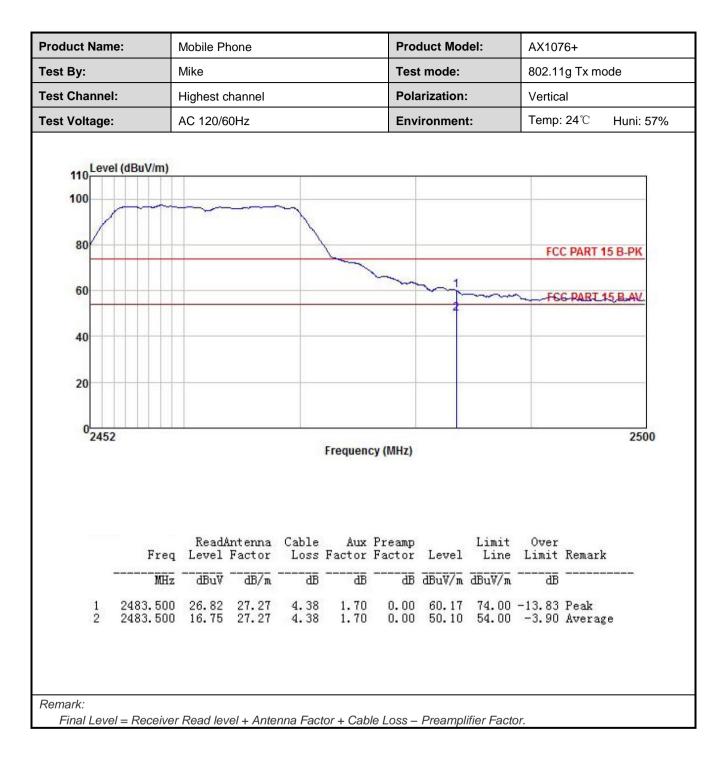
802.11g mode:

roduct Nam	e:	Mobile Ph	ione			Proc	luct Mod	el:	AX1076+		
est By:		Mike	ike Test mode: 802.11g Tx mode west channel Polarization: Vertical						de		
est Channel	:	_owest ch									
Test Voltage:		AC 120/60Hz					ronment	:	Temp:	24 ℃	Huni: 57%
110 Leve 100 80 60	l (dBuV/m)		0						\sim		
	ੑੑੑੑੑੑੑੑੑੑ <u>ੑ</u> ੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑੑ <u></u>		1	Cran to		<u>_~~</u>		2			
40											
20											
2310	2320			2350	Frequen	cy (MHz)					2422
	Freq	ReadA Level	ntenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark	
eser oran	Freq MHz	Level	ntenna Factor dB/m	Loss	Aux Factor dB	Factor	Level dBuV/m	Line	Limit	Remark	













Product Name:	Mobile Phone				Product Model:			AX1076+			
est By:		Mike				Tes	t mode:		802.11	g Tx moo	de
Test Channel:		Highest of	channel			Pola	arization	:	Horizo	ntal	
Test Voltage:		AC 120/60Hz			Environment:			t:	Temp:	24 ℃	Huni: 57%
110 Level (dE 100 80 60 40 20	uV/m)						~	~		C PART 1	
02452											2500
	Freq	ReadA	ntenna Factor	Cable		cy (MHz) Preamp Factor	Level	Limit	Over Limit	Remark	
								dBuV/m			
	MHz	dBuV	dB/m	dB	- uu						

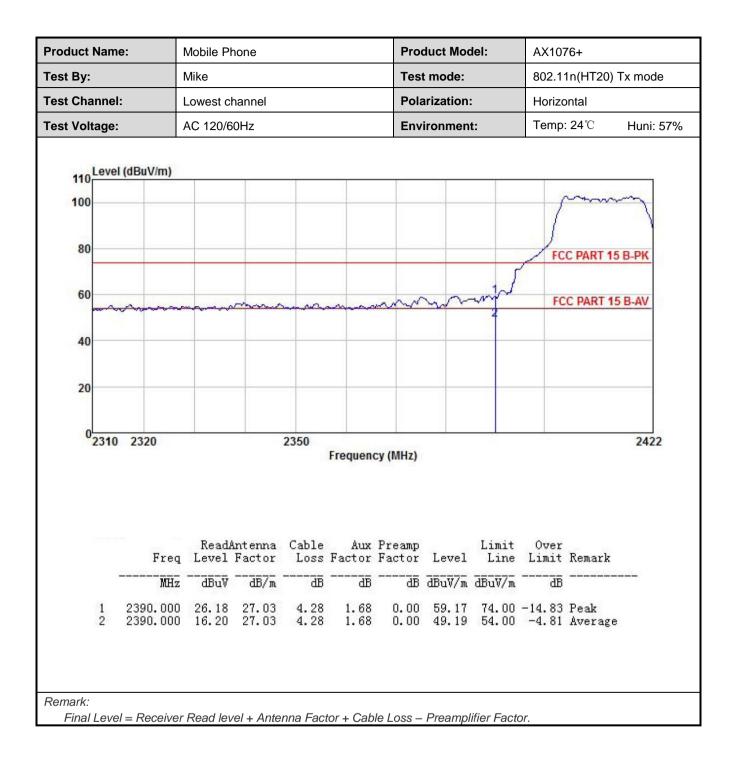


802.11n(HT20):

Product Na	me:	Mobile Pl	none			Pro	duct Mod	del:	AX1076+		AX1076+		
est By:		Mike				Tes	Test mode:			802.11n(HT20) Tx mode			
est Chann	el:	Lowest channel AC 120/60Hz					arization	:	Vertica	Vertical			
Fest Voltag	e:						ironmen	t:	Temp:	: 24 ℃	Huni: 57%		
110 Lev	vel (dBuV/m)										1		
100									(~		
									1		V		
80									FC	C PART 15	B-PK		
								1	~				
60	amon	man	mm	man o	mm	m	mm	m	FC	C PART 15	B-AV		
40			_										
-10													
20			_										
0231	10 2320			2350							2422		
					Frequen	c <mark>y (</mark> MHz)							
		D 14	ntenna	C 11		D		T	<u></u>				
	Freq	Level	Factor	Loss	Factor	Preamp Factor	Level	Limit Line		Remark			
	MHz	dBuV		āĒ	ā	āB	dBuV/m	dBuV/m	āB				
1	2390.000	26.12	27.03	4.28	1.68	0.00	59.11	74.00	-14.89	Peak			
2	2390.000	16.20	27.03	4.28	1.68	0.00	49.19	54.00	-4.81	Average			
Remark:													

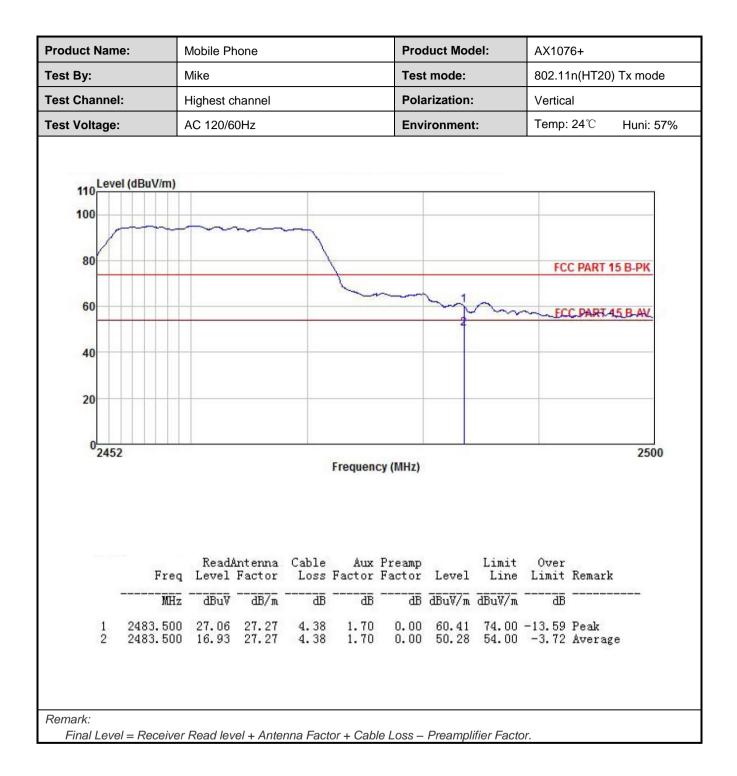






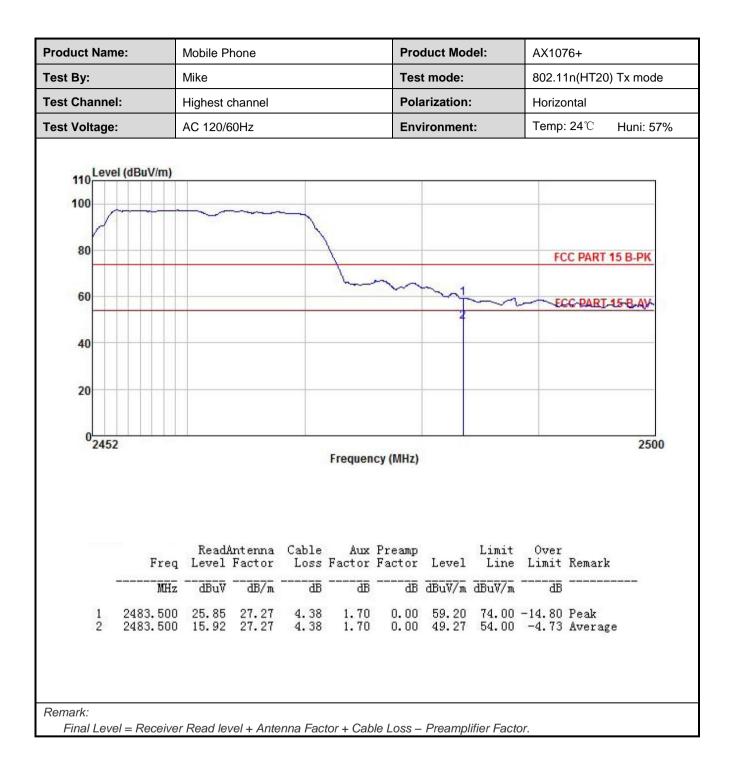














6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712905.



6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C S	ection 15.209	and 15.205			
Test Frequency Range:	9kHz to 25GHz					
Test Distance:	3m					
Receiver setup:	Frequency	Detector	RBW	VE	3W	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300	KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3M	1Hz	Peak Value
	Above ronz	RMS	1MHz	3M	1Hz	Average Value
Limit:	Frequency	Remark				
	30MHz-88MH		40.0			uasi-peak Value
	88MHz-216MH		43.5			uasi-peak Value
	216MHz-960M		46.0			uasi-peak Value
	960MHz-1GH	Z	54.0			uasi-peak Value
	Above 1GHz	:	54.0			Average Value
Test Procedure:	1. The EUT wa	is placed on tl	74.0	oting t	babla 0	Peak Value
	 highest radia 2. The EUT was antenna, what tower. 3. The antenna the ground the ground the ground the Both horizon make the meters and the meters and the find the meters and the find the meters. The test-recense of the the limit specified Base of the EUT whave 10dB meters and the specified Base of the EUT whave 10dB meters. 	ation. Is set 3 meter ich was mour a height is vari o determine th ital and vertica easurement. spected emiss on the antenna the rota table aximum readi eiver system v andwidth with on level of the cified, then ter vould be repo- nargin would	s away from t ted on the top ed from one r ne maximum al polarization sion, the EUT a was tuned from was set to Pea Maximum Ho EUT in peak sting could be rted. Otherwis be re-tested o	he inte o of a v meter t value o is of th was a o heigh om 0 o ak Det ld Moo mode stopp se the one by	erferen variabl to four of the f he ante hts fro degree tect Fu de. was 1 bed and emissi one us	e-height antenna meters above field strength. enna are set to ed to its worst m 1 meter to 4 s to 360 degrees
Test setup:	Below 1GHz					



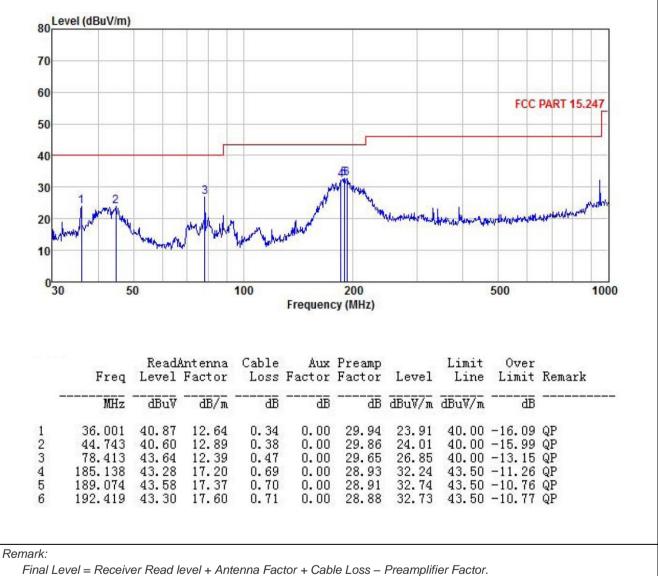
	Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.



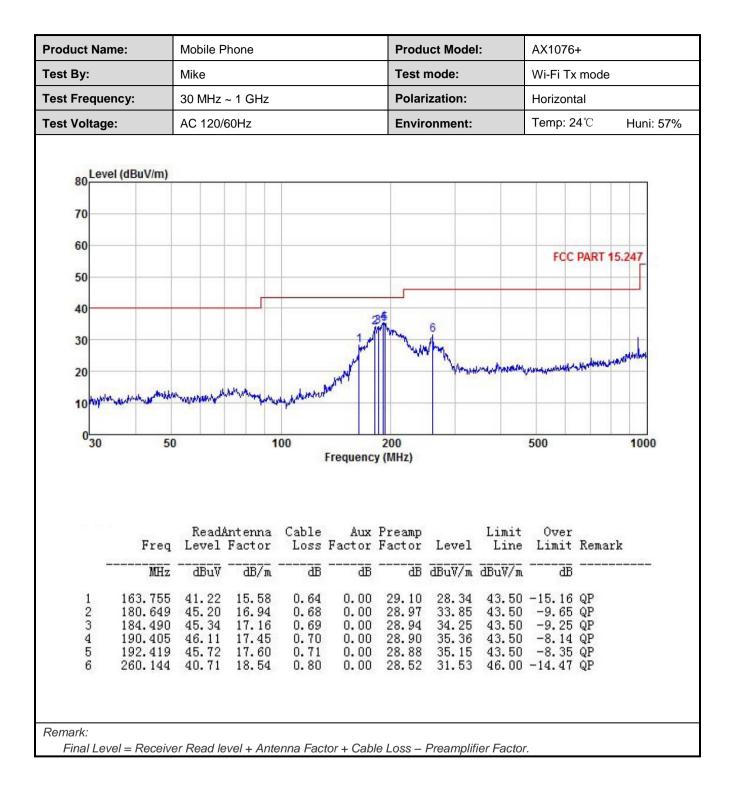
Measurement Data (worst case):

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	AX1076+
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%
		·	









Above 1GHz

				8	02.11b				
			Te	est channe	I: Lowest c	hannel			
		[]		Detector	r: Peak Val	ue			r
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	50.99	30.81	6.81	2.46	41.82	49.25	74.00	-24.75	Vertical
4824.00	49.27	30.81	6.81	2.46	41.82	47.53	74.00	-26.47	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	41.96	30.81	6.81	2.46	41.82	40.22	54.00	-13.78	Vertical
4824.00	40.36	30.81	6.81	2.46	41.82	38.62	54.00	-15.38	Horizontal
			т	ost channe	l: Middle cl	annol			
					: Peak Val				
	Read	Antenna	Cable	Aux	Preamp	ue	Limit	Over	
Frequency (MHz)	Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Factor (dB)	Level (dBuV/m)	Line (dBuV/m)	Limit (dB)	Polarization
4874.00	51.03	30.93	6.85	2.47	41.84	49.44	74.00	-24.56	Vertical
4874.00	49.32	30.93	6.85	2.47	41.84	47.73	74.00	-26.27	Horizontal
				Detector:	Average V	alue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	42.04	30.93	6.85	2.47	41.84	40.45	54.00	-13.55	Vertical
4874.00	40.42	30.93	6.85	2.47	41.84	38.83	54.00	-15.17	Horizontal
			Те	est channel	l: Highest c	hannel			
		[]		Detector	: Peak Val	ue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	51.11	31.05	6.89	2.48	41.86	49.67	74.00	-24.33	Vertical
4924.00	49.46	31.05	6.89	2.48	41.86	48.02	74.00	-25.98	Horizontal
				Detector:	Average V	alue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	42.13	31.05	6.89	2.48	41.86	40.69	54.00	-13.31	Vertical
4924.00	40.55	31.05	6.89	2.48	41.86	39.11	54.00	-14.89	Horizontal
						– Preamplifie 0dB and not s		eport.	



				8	02.11g				
			Te		I: Lowest c	hannel			
				Detector	r: Peak Val	ue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	50.88	30.81	6.81	2.46	41.82	49.14	74.00	-24.86	Vertical
4824.00	49.23	30.81	6.81	2.46	41.82	47.49	74.00	-26.51	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	41.86	30.81	6.81	2.46	41.82	40.12	54.00	-13.88	Vertical
4824.00	40.21	30.81	6.81	2.46	41.82	38.47	54.00	-15.53	Horizontal
			Te	est channe	I: Middle cl	hannel			
	-			Detector	: Peak Val	ue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	50.94	30.93	6.85	2.47	41.84	49.35	74.00	-24.65	Vertical
4874.00	49.42	30.93	6.85	2.47	41.84	47.83	74.00	-26.17	Horizontal
	r	r		Detector:	Average V	alue		1	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	41.98	30.93	6.85	2.47	41.84	40.39	54.00	-13.61	Vertical
4874.00	40.53	30.93	6.85	2.47	41.84	38.94	54.00	-15.06	Horizontal
			Те	est channel	: Highest c	hannel			
					: Peak Val				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	51.02	31.05	6.89	2.48	41.86	49.58	74.00	-24.42	Vertical
4924.00	49.40	31.05	6.89	2.48	41.86	47.96	74.00	-26.04	Horizontal
	1			Detector:	Average V	alue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	42.03	31.05	6.89	2.48	41.86	40.59	54.00	-13.41	Vertical
4924.00	40.34	31.05	6.89	2.48	41.86	38.90	54.00	-15.10	Horizontal
						– Preamplifie 0dB and not s		eport.	



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			Τe	est channe	I: Lowest c	hannel			
				Detector	r: Peak Val	ue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	50.75	30.81	6.81	2.46	41.82	49.01	74.00	-24.99	Vertical
4824.00	49.12	30.81	6.81	2.46	41.82	47.38	74.00	-26.62	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	41.74	30.81	6.81	2.46	41.82	40.00	54.00	-14.00	Vertical
4824.00	40.15	30.81	6.81	2.46	41.82	38.41	54.00	-15.59	Horizontal
			Te	est channe	l: Middle cl	hannel			
				Detector	r: Peak Val	ue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	50.80	30.93	6.85	2.47	41.84	49.21	74.00	-24.79	Vertical
4874.00	49.35	30.93	6.85	2.47	41.84	47.76	74.00	-26.24	Horizontal
				Detector:	Average V	alue			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	41.83	30.93	6.85	2.47	41.84	40.24	54.00	-13.76	Vertical
4874.00	40.49	30.93	6.85	2.47	41.84	38.90	54.00	-15.10	Horizontal
			Те	st channe	I: Highest c	hannel			
	I			Detector	r: Peak Val	ue			Γ
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	51.87	31.05	6.89	2.48	41.86	50.43	74.00	-23.57	Vertical
4924.00	49.38	31.05	6.89	2.48	41.86	47.94	74.00	-26.06	Horizontal
		1		Detector:	Average V	alue			1
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	41.93	31.05	6.89	2.48	41.86	40.49	54.00	-13.51	Vertical
4924.00	40.32	31.05	6.89	2.48	41.86	38.88	54.00	-15.12	Horizontal
						– Preamplifie 0dB and not s		eport.	