

FCC Test Report

For

Applicant Name:

INFINIX MOBILITY LIMITED

Address: EUT Name:

Brand Name:

Model Number:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG **Mobile Phone** Infinix X6731B Series Model Number: Refer to section 2

Issued By

Company Name:

Address:

BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: Test Standards: FCC ID: **Test Conclusion:** Test Date: Date of Issue:

BTF230807R00607 47 CFR Part 15, Subpart B 2AIZN-X6731B Pass 2023-07-13 to 2023-08-04 2023-08-04

Prepared By:

Date:

Approved By:

Date:

(Shenz/ hrisa Chris Liu / Project Engin 2023-08-04 1 Ryan.CJ / EMC Manager

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2023-08-04

Page 1 of 18

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Test Report Number: BTF230807R00607

Revision History				
Version	Issue Date	Revisions Content		
R_V0 2023-08-04		Original	1.1	

Note: Once the revision has been made, then previous versions reports are invalid.

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Table of Contents

1	INTR	RODUCTION	4
	1.1 1.2 1.3	Identification of Testing Laboratory Identification of the Responsible Testing Location Announcement	4
2	PRO	DUCT INFORMATION	5
	2.1 2.2 2.3 2.4	Application Information Manufacturer Information General Description of Equipment under Test (EUT) Technical Information	5 5
3	SUM	IMARY OF TEST RESULTS	6
	3.1 3.2 3.3	Test Standards Uncertainty of Test Summary of Test Result	6
4	TES	T CONFIGURATION	7
	4.1 4.2 4.3	Test Equipment List Test Auxiliary Equipment Test Modes	9
5	EMIS	SSION TEST RESULTS (EMI)	10
	5.1	Conducted emissions on AC mains	
		5.1.1 E.U.T. Operation: 5.1.2 Test Setup Diagram: 5.1.3 Test Data:	10
	5.2	Radiated emissions (Below 1GHz)	
		 5.2.1 E.U.T. Operation:	13
	5.3	Radiated emissions (Above 1GHz)	
		 5.3.1 E.U.T. Operation: 5.3.2 Test Setup Diagram: 5.3.3 Test Data: 	



1 Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.			
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tanto Community, Songgang Street, Bao'an District, Shenzhen, China				
Phone Number: +86-0755-23146130				
Fax Number: +86-0755-23146130				

1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.			
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China				
Phone Number: +86-0755-23146130				
Fax Number:	+86-0755-23146130			
FCC Registration Number:	518915			
Designation Number: CN1330				

1.3 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



2 **Product Information**

2.1 Application Information

Company Name:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.2 Manufacturer Information

Company Name:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.3 General Description of Equipment under Test (EUT)

EUT Name:	Mobile Phone
Test Model Number:	X6731B
Series Model Number:	N/A

2.4 Technical Information

Power Supply:	Li-ion Battery: BL-49PX Rated Voltage: 3.87V Rated Capacity: 4900mAh/18.96Wh Limited Capacity: 5000mAh/19.35Wh Limited Charge Voltage: 4.45V
Power Adaptor:	Adapter: U450XSA Input: 100-240V~50/60Hz 1.8A Output: 5.0V2.0A,11.0V4.1A MAX



3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards: **47 CFR Part 15, Subpart B:** Unintentional Radiators

3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	±2.64dB
All emissions, radiated (<1GHz)	±4.12dB

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Conducted emissions on AC mains	47 CFR Part 15, Subpart B	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass
Radiated emissions (Above 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass



Test Configuration 4

Test Equipment List 4.1

Conducted emissions on AC mains					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2022-11-24	2023-11-23
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2022-11-24	2023-11-23

Radiated emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	1	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	1	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Radiated emissions (Above 1GHz)										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23					
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23					
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23					

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Test Report Number: BTF230807R00607

RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27



4.2 Test Auxiliary Equipment

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

4.3 Test Modes

Pretest Mode	Description
Mode 1	Video Recording
Model 2	Video Playing
Mode 3	Exchange data with computer (the worst case)
Mode 4	GPS
Mode 5	FM



5 **Emission Test Results (EMI)**

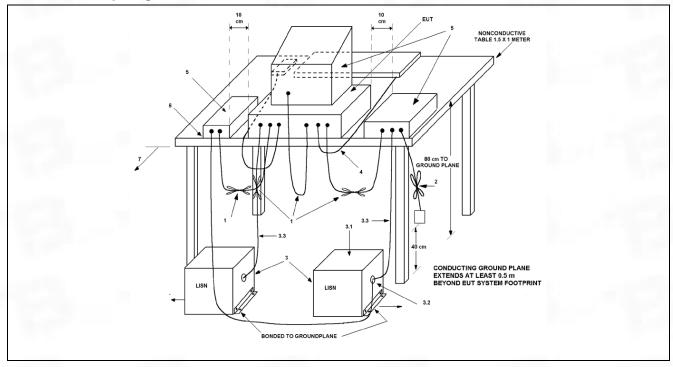
5.1 **Conducted emissions on AC mains**

Test Requirement:	15.107, Class B						
Test Method:	ANSI C63.4		the second se				
	Frequency of emission (MHz)	Conducted limit (c	dBμV)				
		Quasi-peak	Average				
Test Limit:	0.15-0.5	66 to 56*	56 to 46*				
rest Limit.	0.5-5	56	46				
	5-30	60	50				
	*Decreases with the logarithm of t	*Decreases with the logarithm of the frequency.					
Procedure:	An initial pre-scan was performed were berformed at the were detected. Remark: Level= Read Level+ Cable	ne frequencies with ma					

5.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24.1 °C		
Humidity:	48.7 %		
Atmospheric Pressure:	1010 mbar		

5.1.2 Test Setup Diagram:

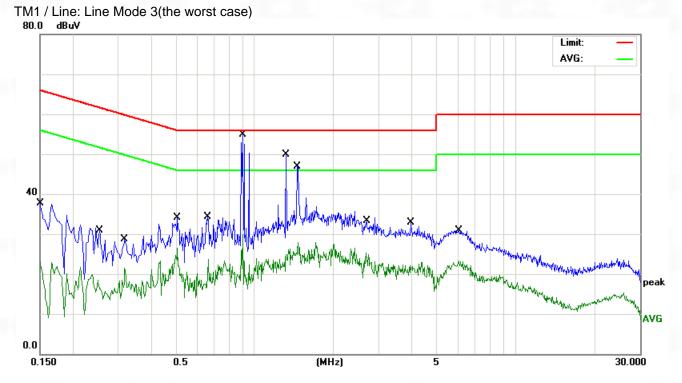


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Page 10 of 18



5.1.3 Test Data:

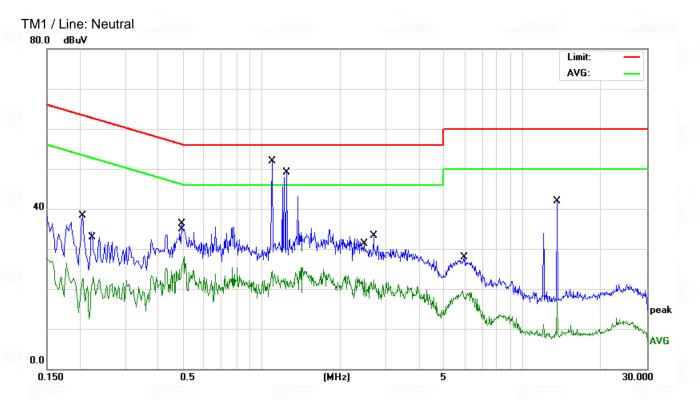


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1500	27.37	10.41	37.78	65.99	-28.21	QP
2	0.2540	20.52	10.42	30.94	61.62	-30.68	QP
3	0.3180	10.99	10.43	21.42	49.76	-28.34	AVG
4	0.5060	16.08	10.47	26.55	46.00	-19.45	AVG
5	0.6580	23.86	10.48	34.34	56.00	-21.66	QP
6	0.9020	14.29	10.50	24.79	56.00	-31.21	QP
7	0.9020	19.47	10.50	29.97	46.00	-16.03	AVG
8 *	1.3220	39.34	10.56	49.90	56.00	-6.10	QP
9	1.4660	17.24	10.58	27.82	46.00	-18.18	AVG
10	2.6700	14.59	10.67	25.26	46.00	-20.74	AVG
11	3.9660	22.16	10.68	32.84	56.00	-23.16	QP
12	6.0660	12.55	10.71	23.26	50.00	-26.74	AVG

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Page 11 of 18





No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.2060	27.87	10.41	38.28	63.36	-25.08	QP
2	0.2260	12.60	10.42	23.02	52.59	-29.57	AVG
3	0.4940	25.75	10.47	36.22	56.10	-19.88	QP
4	0.5020	17.64	10.47	28.11	46.00	-17.89	AVG
5 *	1.0940	41.32	10.52	51.84	56.00	-4.16	QP
6	1.0940	13.94	10.52	24.46	46.00	-21.54	AVG
7	1.2460	38.49	10.55	49.04	56.00	-6.96	QP
8	2.4620	11.94	10.66	22.60	46.00	-23.40	AVG
9	2.6900	22.66	10.67	33.33	56.00	-22.67	QP
10	5.9260	8.70	10.71	19.41	50.00	-30.59	AVG
11	13.5580	30.85	10.98	41.83	60.00	-18.17	QP
12	13.5580	5.81	10.98	16.79	50.00	-33.21	AVG

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Page 12 of 18



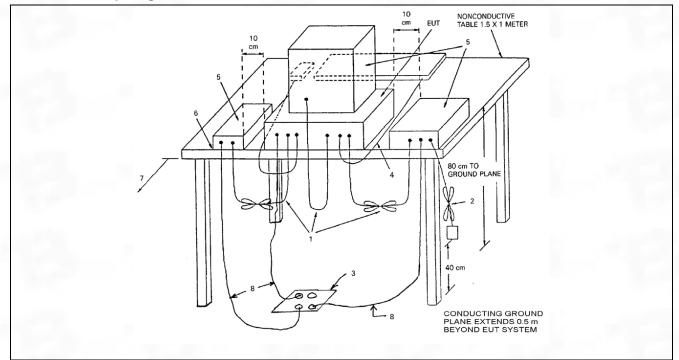
5.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B							
Test Method:	ANSI C63.4							
	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:							
Test Limite	Frequency of emission	Field stren	gth @3m	Field str	ength @10m			
	(MHz)	(uV/m)	(dBuV/	(uV/m)	(dBuV/m)			
Test Limit:			m)					
	30 – 88	100	40	30	29.5			
	88 – 216	150	43.5	45	33.1			
	216 – 960	200	46	60	35.6			
	Above 960	500	54	150	43.5			
Procedure:	peak detection mode. Quasi-p peak sweep graph. The EUT orthogonal polarities.	An initial pre-scan was performed in the chamber using the spectrum analyser in beak detection mode. Quasi-peak measurements were conducted based on the beak sweep graph. The EUT was measured by BiConiLog antenna with 2						

5.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.1 °C
Humidity:	48.7 %
Atmospheric Pressure:	1010 mbar

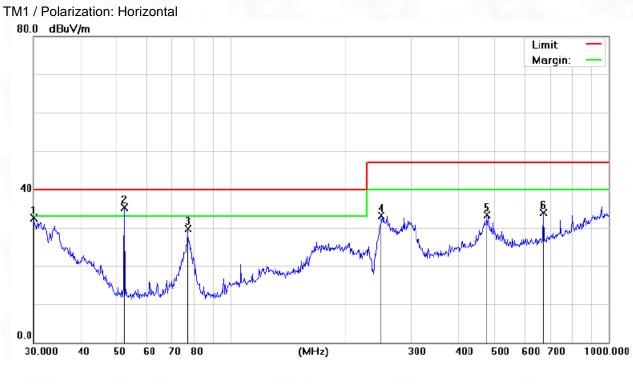
5.2.2 Test Setup Diagram:



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5.2.3 Test Data:

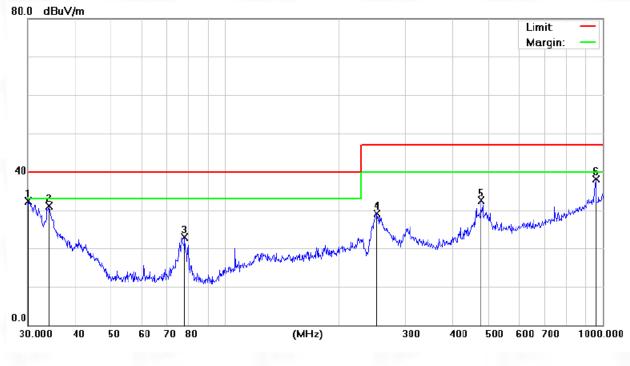


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		30.0000	27.04	5.49	32.53	40.00	-7.47	QP
2	*	52.2079	44.40	-9.08	35.32	40.00	-4.68	QP
3		76.7808	38.83	-9.14	29.69	40.00	-10.31	QP
4		250.3012	36.29	-3.10	33.19	47.00	-13.81	QP
5		475.4991	31.93	1.36	33.29	47.00	-13.71	QP
6		672.8444	29.88	4.01	33.89	47.00	-13.11	QP

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TM1 / Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	30.0000	26.90	5.39	32.29	40.00	-7.71	QP
2		34.1561	27.42	3.78	31.20	40.00	-8.80	QP
3		78.1389	29.65	-6.65	23.00	40.00	-17.00	QP
4		252.0627	33.61	-4.41	29.20	47.00	-17.80	QP
5	4	475.4991	32.16	0.39	32.55	47.00	-14.45	QP
6	ç	958.7943	30.77	7.29	38.06	47.00	-8.94	QP

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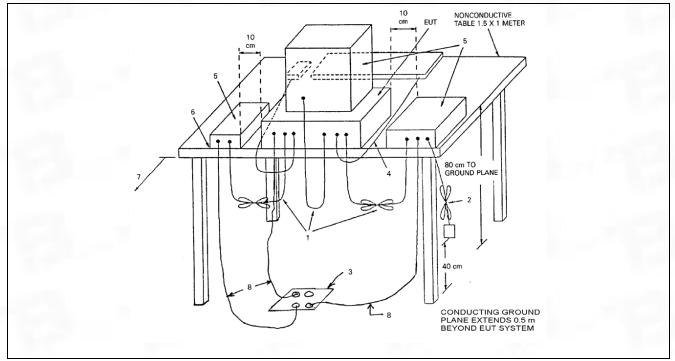
5.3 Radiated emissions (Above 1GHz)

Test Requirement:	15.109, Class B							
Test Method:	ANSI C63.4	ANSI C63.4						
	Frequency of emission (MHz)	Field stren	gth @3m					
Test Limit:		Average (uV/m)	Average (dBuV/m)	Peak (dBuV/m)				
	Above 1GHz	500	54	74				
Procedure:	An initial pre-scan was performed peak detection mode. For below 10 conducted based on the peak swee antenna with 2 orthogonal polaritie were conducted based on the peak antenna with 2 orthogonal polaritie Remark: Level= Read Level+ Cabl	GHz test, Qua ep graph. The s. For above ² < sweep graph s.	asi-peak measu EUT was meas IGHz test, Aver n. The EUT was	rements were sured by BiConiLog age measurements measured by Horn				

5.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.2 °C
Humidity:	54.7 %
Atmospheric Pressure:	1010 mbar

5.3.2 Test Setup Diagram:



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5.3.3 Test Data: TEST RESULTS Above 1GHz(1~6GHz) :(Mode 3—worst case)

Freq.	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
1552.35	V	65.45	40.75	74	54	-8.55	-13.25
2399.95	V	61.35	39.58	74	54	-12.65	-14.42
1614.23	Н	59.44	40.45	74	54	-14.56	-13.55
2333.72	Н	59.47	40.47	74	54	-14.53	-13.53

Remark:

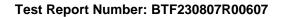
All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Freq. = Emission frequency in MHz

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.







BTF Testing Lab (Shenzhen) Co., Ltd.

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