#### Shenzhen Huatongwei International Inspection Co., Ltd.



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# **TEST REPORT**

Report Reference No.....: TRE1801007602 R/C......: 32674

FCC ID.....: 2AEY7-S8A003

Applicant's name .....: Bak USA Technologies Corp.

Manufacturer...... Bak USA Technologies Corp.

Test item description .....: Tablet PC

Trade Mark .....: -

Model/Type reference...... LTE Barcode 1.1

Listed Model(s) ..... -

Standard .....: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample............ Jan. 11, 2018

Date of testing...... Jan. 12, 2018- Jan. 22, 2018

Result...... PASS

Compiled by

( Position+Printed name+Signature): File administrators Candy Liu

Supervised by

(Position+Printed name+Signature): Project Engineer : Edward Pan

Approved by

(Position+Printed name+Signature): RF Manager Hans Hu

Testing Laboratory Name .....: Shenzhen Huatongwei International Inspection Co., Ltd.

Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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## 1. TEST STANDARDS AND REPORT VERSION

### 1.1. Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.247:</u> Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devicese

## 1.2. Report version

Version No.	Date of issue	Description
00	Jan. 23, 2018	Original

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# 2. TEST DESCRIPTION

Test Item	Section in CFR 47	Result	Test Engineer
Antenna Requirement	15.203/15.247 (c)	Pass	William Wang
AC Power Line Conducted Emissions	15.207	Pass	William Wang
Radiated Emissions	15.209	Pass	William Wang

Note: The measurement uncertainty is not included in the test result.

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# 3. **SUMMARY**

## 3.1. Client Information

Applicant:	Bak USA Technologies Corp.
Address:	425 Michigan Avenue, Buffalo, New York 14203, USA
Manufacturer:	Bak USA Technologies Corp.
Address:	425 Michigan Avenue,Buffalo,New York 14203,USA

# 3.2. Product Description

Name of EUT:	Tablet PC
Trade Mark:	-
Model No.:	LTE Barcode 1.1
Listed Model(s):	-
Power supply:	DC 3.7V From exchange battery
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.6A Output: 5Vd.c.,5A
Hardware version:	1.1
Software version:	1607
Bluetooth	
Version:	Supported BT4.0+EDR
Modulation:	GFSK, π/4DQPSK, 8DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	Integral antenna
Antenna gain:	2.0dBi

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## 3.3. Operation state

#### > Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

Channel	Frequency (MHz)
00	2402
01	2403
:	:
39	2441
i i	
77	2479
78	2480

#### > TEST MODE

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The engineering test program was provided and enabled to make EUT continuous transmit

For AC power line conducted emissions:

The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.

For Radiated suprious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data recorded in the report.

## 3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- supplied by the lab

	1	Manufacturer:	/
		Model No.:	/
	/	Manufacturer:	/
		Model No.:	/

#### 3.5. Modifications

No modifications were implemented to meet testing criteria.

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## 4. TEST ENVIRONMENT

#### 4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

#### 4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. 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 our files.

#### IC-Registration No.:5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377B-1.

#### **ACA**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

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#### 4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

## 4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd. quality system according to ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Here after the best measurement capability for Shenzhen Huatongwei International Inspection Co., Ltd. is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.39 dB	(1)
Radiated Emissions 30~1000MHz	4.24 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)

<sup>(1)</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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## 4.5. Equipments Used during the Test

Conduc	Conducted Emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	EMI Test Receiver	R&S	ESCI	101247	11/11/2017	11/10/2018
2	Artificial Mains	SCHWARZBECK	NNLK 8121	573	11/11/2017	11/10/2018
3	Pulse Limiter	R&S	ESH3-Z2	101488	11/11/2017	11/10/2018
4	Test Software	R&S	ES-K1	N/A	N/A	N/A
5	RF Connection Cable	HUBER+SUHNER	EF400	N/A	11/21/2017	11/20/2018
6	Single Balanced Telecom Pair ISN	FCC	FCC-TLISN-T2- 02	20371	11/11/2017	11/10/2018
7	Two Balanced Telecom Pairs ISN	FCC	FCC-TLISN-T4- 02	20373	11/11/2017	11/10/2018
8	Four Balanced Telecom Pairs ISN	FCC	FCC-TLISN-T8- 02	20375	11/11/2017	11/10/2018
9	V-Network	R&S	ESH3-Z6	100211	11/11/2017	11/10/2018
10	V-Network	R&S	ESH3-Z6	100210	11/11/2017	11/10/2018
11	2-Line V- Network	R&S	ESH3-Z5	100049	11/11/2017	11/10/2018

Radiated Emissions						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	EMI Test Receiver	R&S	ESCI	101247	11/11/2017	11/10/2018
2	Loop Antenna	R&S	HFH2-Z2	100020	11/20/2017	11/19/2018
3	Ultra- Broadband Antenna	SCHWARZBECK	VULB9163	538	4/5/2017	4/4/2018
4	Horn Antenna	SCHWARZBECK	9120D	1011	3/27/2017	3/26/2018
5	Horn Antenna	SCHWARZBECK	BBHA9170	25841	3/27/2017	3/26/2018
6	Preamplifier	SCHWARZBECK	BBV 9743	9743-0022	10/18/2017	10/17/2018
7	Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-248	10/18/2017	10/17/2018
8	High pass filter	Compliance Direction systems	BSU-6	34202	11/11/2017	11/10/2018
9	Turntable	MATURO	TT2.0	/	N/A	N/A
10	Antenna Mast	MATURO	TAM-4.0-P	/	N/A	N/A
11	EMI Test Software	R&S	ESK1	N/A	N/A	N/A
12	EMI Test Software	Audix	E3	N/A	N/A	N/A

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13	RF Connection Cable	HUBER+SUHNE R	3m 3GHz S	N/A	11/21/2017	11/20/2018
14	RF Connection Cable	HUBER+SUHNE R	3m 3GHz RG	N/A	11/21/2017	11/20/2018
15	RF Connection Cable	HUBER+SUHNE R	6m 18GHz S	N/A	11/21/2017	11/20/2018

RF Con	ducted Method					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	Spectrum Analyzer	R&S	FSV40	100048	11/11/2017	11/10/2018
2	OSP	R&S	OSP120	101317	N/A	N/A
3	OSP	R&S	OSP-B157	100890	N/A	N/A
4	Signal generator	R&S	SMB100A	177956	11/11/2017	11/10/2018
5	Vector signal generator	R&S	SMBV100A	260790	7/20/2017	7/19/2018
6	EXA Signal Analyzer	Agilent	N9020A	184247	9/22/2017	9/21/2018
7	Power Meter	Agilent	U2021XA	178231	9/22/2017	9/21/2018
8	DAQ Device	Agilent	U2531A	132812	9/22/2017	9/21/2018

The Cal.Interval was one year.

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## 5. TEST CONDITIONS AND RESULTS

### 5.1. Antenna requirement

#### Requirement

#### FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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 anantenna 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.

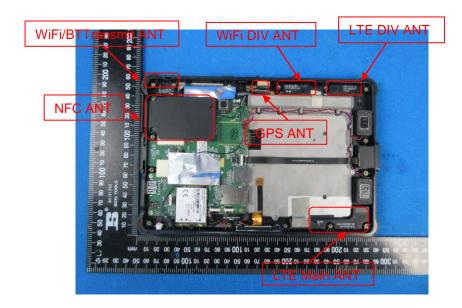
#### FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(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 6 dBi 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 6 dBi.

#### **Test Result:**

□ Passed	☐ Not Applicable
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The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



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## 5.2. Conducted Emissions (AC Main)

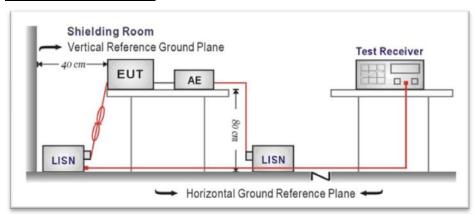
#### **LIMIT**

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguesov ranga (MILIT)	Limit (d	BuV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

<sup>\*</sup> Decreases with the logarithm of the frequency.

#### **TEST CONFIGURATION**



### **TEST PROCEDURE**

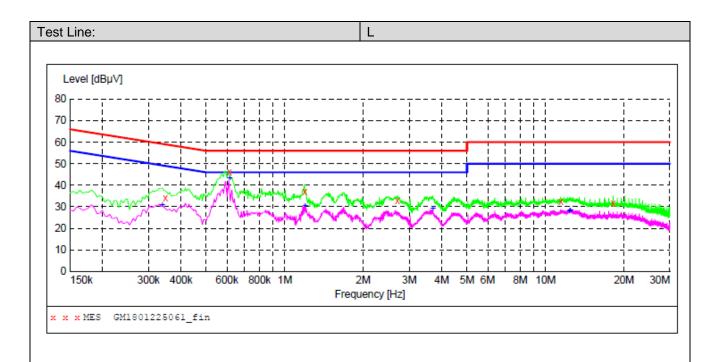
- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

#### **TEST RESULTS**

Note:

- 1) Transd= Cable lose + Pulse Limiter Factor + Artificial Mains Factor
- 2) Margin= Limit Level

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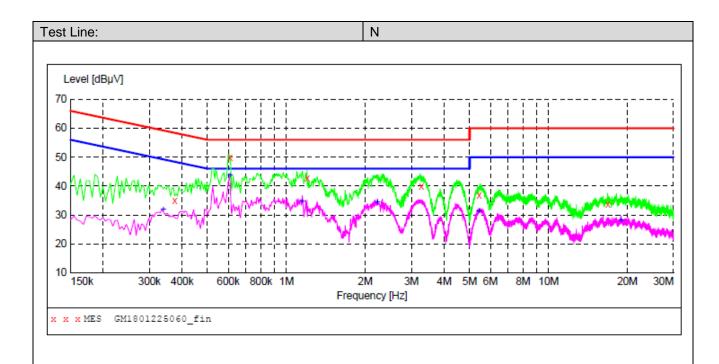
### MEASUREMENT RESULT: "GM1801225061\_fin"

1	/22/2018 7:0	04PM						
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.348000	34.10	9.9	59	24.9	QP	L1	GND
	0.613500	46.30	10.0	56	9.7	QP	L1	GND
	1.194000	37.00	10.1	56	19.0	QP	L1	GND
	2.697000	32.80	10.1	56	23.2	QP	L1	GND
	11.445000	32.30	10.4	60	27.7	QP	L1	GND
	18.181500	31.70	10.6	60	28.3	QP	L1	GND

## MEASUREMENT RESULT: "GM1801225061\_fin2"

1/22/2018 7:	04PM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.339000	30.80	9.9	49	18.4	AV	L1	GND
0.613500	43.00	10.0	46	3.0	AV	L1	GND
1.198500	30.30	10.1	46	15.7	AV	L1	GND
3.705000	29.00	10.1	46	17.0	AV	L1	GND
12.340500	28.10	10.5	50	21.9	AV	L1	GND
12.453000	28.40	10.5	50	21.6	AV	L1	GND

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## MEASUREMENT RESULT: "GM1801225060\_fin"

1	/22/2018 7:0	00PM						
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.375000	35.00	9.9	58	23.4	QP	N	GND
	0.609000	49.90	10.0	56	6.1	QP	N	GND
	1.203000	42.60	10.1	56	13.4	QP	N	GND
	3.273000	39.80	10.1	56	16.2	QP	N	GND
	5.442000	36.70	10.2	60	23.3	QP	N	GND
	16.831500	33.80	10.6	60	26.2	QP	N	GND

## MEASUREMENT RESULT: "GM1801225060\_fin2"

1/22/2018	7:00PM						
Frequenc MH	-	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.33900	0 31.70	9.9	49	17.5	AV	N	GND
0.60900	0 42.60	10.0	46	3.4	AV	N	GND
1.14900	0 34.80	10.1	46	11.2	AV	N	GND
2.22000	0 34.30	10.1	46	11.7	AV	N	GND
5.42400	0 31.30	10.2	50	18.7	AV	N	GND
18.88800	0 28.00	10.6	50	22.0	AV	N	GND

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## 5.3. Spurious Emissions (radiated)

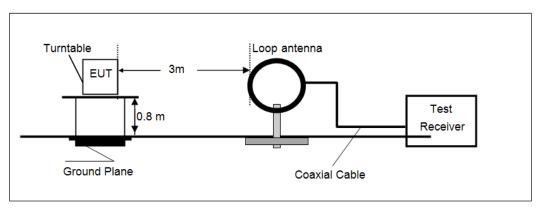
### **LIMIT**

FCC CFR Title 47 Part 15 Subpart C Section 15.209

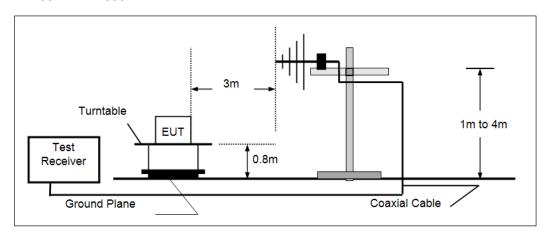
Frequency	Limit (dBuV/m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
Above 1 GHz	74.00	Peak

### **TEST CONFIGURATION**

#### Below 30 MHz

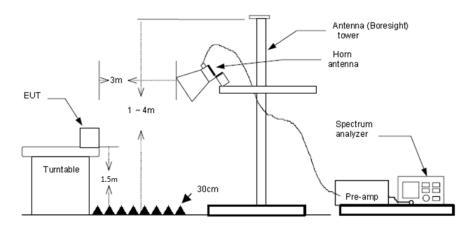


#### > 30 MHz ~1000 MHz



Above 1 GHz

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#### **TEST PROCEDURE**

- 1. The EUT was tested according to ANSI C63.10:2013.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
- 5. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1 GHz, RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
  - (3) Above 1 GHz, RBW=1 MHz, VBW=3 MHz Peak detector for Peak value RBW=1 MHz, VBW=10 Hz Peak detector for Average value.

#### **TEST MODE:**

Please refer to the clause 3.3

#### **TEST RESULTS**

#### Note:

- 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) Below 1 GHz, Have pre-scan all modulation mode, found the GFSK modulation High channel which it was worst case, so only the worst case's data on the test report.
- 4) Above 1 GHz, Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report
- The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

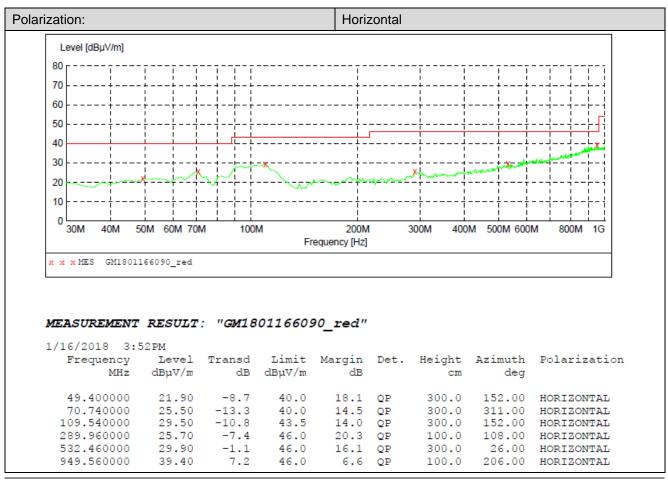
#### → 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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#### > 30 MHz ~ 1 GHz

ization:				Verti	cal				
Level [dBµV/m]									
80									
70						_			
				<del>-</del>					
60	- † † † -								:
50	- <del> </del> <del> </del> <del> </del> -			<del> </del> -			$\frac{1}{1}\frac{1}{1}$		
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0 !						1 1	! !		
			_			300M 400	M 500M 600	M 800M	1G
x x x MES GM1801	166089_red		Fr	equency [Hz]				W COOM	10
<b>MEASUREMENT</b> 1/16/2018 3:4	RESULT:		0116608	39_red"					
MEASUREMENT 1/16/2018 3:4 Frequency	RESULT:	Transd	<b>0116608</b> Limit	39_red"  Margin		Height	Azimuth		
<b>MEASUREMENT</b> 1/16/2018 3:4	RESULT:		0116608	39_red"					
MEASUREMENT 1/16/2018 3:4 Frequency	RESULT:	Transd	<b>0116608</b> Limit	39_red"  Margin		Height	Azimuth		ation
MEASUREMENT  1/16/2018 3:4 Frequency MHz  31.940000 70.740000	#####################################	Transd dB -13.2 -13.3	Dimit dBµV/m	39_red"  Margin dB 4.5 6.8	Det.	Height cm	Azimuth deg 194.00 67.00	Polariz VERTICA VERTICA	ation
MEASUREMENT  1/16/2018 3: Frequency MHz  31.940000 70.740000 97.900000	######################################	Transd dB -13.2 -13.3 -10.8	Dimit dBµV/m 40.0 40.0 43.5	Margin dB 4.5 6.8 14.7	Det.  QP QP QP	Height cm 100.0 100.0 100.0	Azimuth deg 194.00 67.00 289.00	Polariz VERTICA VERTICA VERTICA	ation L L L
MEASUREMENT  1/16/2018 3:4 Frequency MHz  31.940000 70.740000	#####################################	Transd dB -13.2 -13.3	Dimit dBµV/m	39_red"  Margin dB 4.5 6.8	Det.	Height cm	Azimuth deg 194.00 67.00	Polariz VERTICA VERTICA	ation L L L L



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# 6. TEST SETUP PHOTOS

Conducted Emissions (AC Mains)



Radiated Emissions





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Reference to the test report No.: TRE1801007601.

End of Report.....