# **TEST REPORT**

	DT&C Co., Ltd.				
<b>Dt&amp;C</b>	42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea, 17042 Tel : 031-321-2664, Fax : 031-321-1664				
1. Report No : DRTFCC2105-004	4				
2. Customer					
Name (FCC) : Point Mobile Co.	, LTD. / Name (IC) : POINTMOBILE CO.,LTD				
• Address (FCC) : B-9F, Kabul Grea Address (IC) : B-9F Kabul Great V	t Valley 32 Digital-ro 9-gil, Geumcheon-gu Seoul South Korea 153-709 alley, 32, Digital-ro 9-gil, Geumcheon-gu Seoul Korea (Republic Of)				
3. Use of Report : FCC & IC Certific	cation				
4. Product Name / Model Name : M	obile Computer / PM30				
FCC ID : V2X-PM30					
IC : 10664A-PM30	IC : 10664A-PM30				
5. FCC Regulation(s) : FCC Part 15	.225				
IC Standards(s) : RSS-210 Issue 10					
Test Method Used : ANSI C63.10-2013					
6. Date of Test : 2021.02.16 ~ 2021.04.30					
7. Location of Test : 🛛 Permanent Testing Lab 🛛 On Site Testing					
8. Testing Environment : See appended test report.					
9. Test Result : Refer to the attache	9. Test Result : Refer to the attached test result.				
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The results shown in this test report refer only to the sample(s) tested unless otherwise stated.					
Affirmation Name : lool loop Reviewed by					
	Name : JaeHyeok Bang (State Name : JaeJin Lee				
2021.05.18.					
DT&C Co., Ltd.					
This test report is a general report that does not use the KOLAS accreditation mark and is not related to KS Q ISO/IEC 17025 and KOLAS accreditation.					

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

# **Test Report Version**

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2105-0044	May. 18, 2021	Initial issue	JaeHyeok Bang	JaeJin Lee



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IC : 10664A-PM30

# **1. General Information**

## 1.1. Testing Laboratory

## DT&C Co., Ltd.

The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042. The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014.

# - FCC & IC MRA Designation No. : KR0034

## - ISED#: 5740A

www.dtnc.net		
Telephone	:	+ 82-31-321-2664
FAX	:	+ 82-31-321-1664

# 1.2. Testing Environment

Ambient Condition	
Temperature	+20 °C ~ +25 °C
<ul> <li>Relative Humidity</li> </ul>	35 % ~ 45 %

# 1.3. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
AC power-line conducted emission	3.6 dB (The confidence level is about 95 %, k = 2)
Radiated emission (1 GHz Below)	4.9 dB (The confidence level is about 95 %, k = 2)

# 1.4. Details of Applicant

Applicant Name(FCC)	Point Mobile Co., LTD.	
Applicant Name(IC)	POINTMOBILE CO.,LTD	
Address (FCC)	B-9F, Kabul Great Valley 32 Digital-ro 9-gil, Geumcheon-gu Seoul South Korea 153-709	
Address (IC)	B-9F Kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu Seoul Korea (Republic Of)	

# 1.5. Description of EUT

Equipment Class	Low Power Communications Device Transmitter(DXX)	
Product Name	Mobile Computer	
Model Name	PM30	
Add Model Name	-	
Software Version	30.00xx	
EUT Serial Number	Radiated: 2033910156	
Power Supply	DC 3.85 V	
Frequency Band	13.56 MHz	
Modulation Technique ASK		
Antenna type	LDS Antenna	

# 1.6. EUT Capabilities

This EUT contains the following capabilities: 850/1900 GSM, 850/1700/1900 WCDMA, Multi-band LTE, Bluetooth, WLAN and NFC

# 2. Information about test items

# 2.1 Test mode

Test mode1	Continuous transmitting mode
------------	------------------------------

# 2.2 Tested frequency

Channel	TX Frequency(MHz)
Lowest	13.56
Middle	-
Highest	-

# 2.3 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing  $\rightarrow$  None

# 3. Antenna requirements

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

The internal antenna is attached on the PCB using the special spring tension. Therefore this E.U.T Complies with the requirement of §15.203

#### IC : 10664A-PM30

# 4. Test report

# 4.1 Summary of tests

FCC part section(s)	RSS section(s)	Parameter	Limit	Test condition	Status Note 1
2.1049	-	20 dB Bandwidth	-		с
-	RSS-Gen [ 6.7 ]	Occupied Bandwidth	-		с
15.225 (a)	RSS-210 [ B6(a) ]	In-Band Emissions	15,848  µV/m @ 30 m 13.553 MHz – 13.567 MHz		с
15.225 (b)	RSS-210 [ B6(b) ]	In-Band Emissions	334 μV/m @ 30 m 13.410 MHz – 13.553 MHz 13.567 MHz – 13.710 MHz	Radiated	с
15.225 (c)	RSS-210 [ B6(c) ]	In-Band Emissions	106 μV/m @ 30 m 13.110 MHz – 13.410 MHz 13.710 MHz – 14.010 MHz		С
15.225 (d) 15.209	RSS-210 [ B6(d) ] RSS-GEN [8.9]	Out-of Band Emissions	Emissions outside of the specified band (13.110 MHz - 14.010 MHz) must meet the radiated limits detailed in 15.209		с
15.225 (e)	RSS-210 [ B6 ]	Frequency Stability	±0.01 % of operating frequency	Temp & Humid Test Chamber	С
15.207	RSS-Gen [ 8.8 ]	AC Conducted Emissions	FCC Part 15.207 (Refer to section 4.2.6)	AC Line Conducted	С
15.203	-	Antenna Requirements	FCC Part 15.203 (Refer to section 3)	-	С

Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable

Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS.

# 4.2 Transmitter requirements

## 4.2.1 20dB bandwidth & Occupied Bandwidth

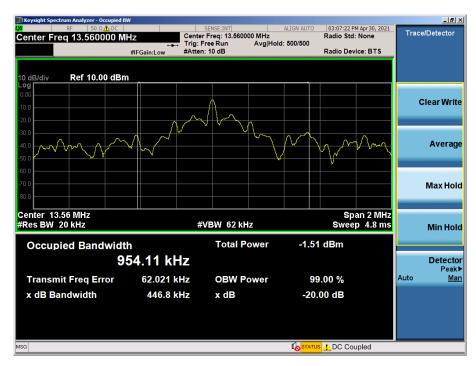
#### - Procedure:

The 20 dB Bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

And spectrum analyzer setting use following test procedure of ANCSI C63.10-2013 - Section 6.9.2, RSS-GEN [6.7]

- 1. Center frequency = EUT channel center frequency
- 2. Span =  $2 \sim 5$  times the OBW
- 3. RBW = 1 % ~ 5 % OBW
- 4. VBW  $\geq$  3 x RBW
- 5. Detector = Peak
- 6. Trace = Max hold
- 7. The trace was allowed to stabilize
- 8. Determine the reference value = Set the spectrum analyzer marker to the highest level of the displayed trace
- Using the marker-delta function of the instrument, determine the "-xx dB down amplitude" using [(reference value) xx].
- 10. Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

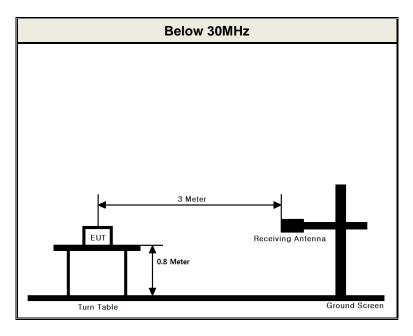
#### - Measurement Data: Comply



#### - Minimum Standard: NA

# 4.2.2 In-band emissions

## - Test Configuration



- Procedure: The radiated emission was tested according to the section 6.4 of the ANSI C63.10-2013.

The EUT was placed on a 0.8 m high non-conductive table and it was placed at 3m distance from the antenna. Measurements were performed for each of the three antenna orientations. (ie. parallel, perpendicular, and ground-parallel)

Also, measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

RBW = As specified in below table, VBW  $\ge$  3 x RBW, Sweep = Auto, Detector = Peak Trace mode = Max Hold until the trace stabilizes.

Frequency	RBW
9 - 150 kHz	200 – 300 Hz
0.15 - 30 MHz	9 – 10 kHz
30 – 1 000 MHz	100 – 120 kHz
> 1000 MHz	1 MHz

#### - Minimum Standard: Part 15.225(a), (b), (c) & RSS-210 [ B6(a), (b), (c) ]

Frequency Band [MHz]	Limit at 30 m measurement distance				
	[uV/m]	[dBuV/m]			
13.553 - 13.567	15,848	84.0			
13.410 - 13.553 13.567 - 13.710	334	50.5			
13.110 - 13.410 13.710 - 14.010	106	40.5			



#### - Measurement Data:

Test Frequency Band [MHz]	Freq. [MHz]	EUT Axis.	ANT (Note 1)	Reading Level [dBuV]	T.F [dB/m]	Field Strength @3 m [dBuV/m]	Field Strength @30 m [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13.110 ~ 13.410	13.349	Z	Р	28.0	10.4	38.4	-1.6	40.5	42.1
13.410 ~ 13.553	13.553	Z	Р	42.9	10.4	53.3	13.3	50.5	37.2
13.553 ~ 13.567	13.560	Z	Р	47.3	10.4	57.7	17.7	84.0	66.3
13.567 ~ 13.710	13.568	Z	Р	41.1	10.4	51.5	11.5	50.5	39.0
13.710 ~ 14.010	13.771	Z	Р	27.2	10.4	37.6	-2.4	40.5	42.9

Note 1. Loop antenna orientation

"P": Parallel, "V": perpendicular, "G": ground-parallel

**Note 2.** This test item was performed at 3 m and the data were extrapolated to the specified measurement distance of 30 m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)2.

• Extrapolation Factor =  $20 \log_{10}(3/30)^2 = -40 \text{ dB}$ 

Note 3. All data were recorded using a spectrum analyzer employing a peak detector.

If PK results were meet Quasi-peak limit, Quasi-peak measurements were omitted.

#### Note 4. Sample Calculation.

Margin = Limit – Field Strength @ 30 m

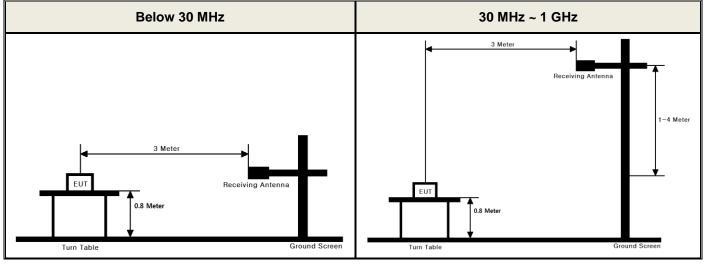
/ Field Strength @ 30 m = Field Strength @ 3 m - 40 dB
/ T.F = AF + CL

Field Strength @ 3 m = Reading + T.F / T.

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss

# 4.2.3 Out-of-band emissions

#### - Test configuration



- Procedure: The radiated emission was tested according to the section 6.4, 6.5 of the ANSI C63.10-2013.

For below 30 MHz, measurements were performed as descripted in section 4.2.3. For above 30 MHz;

The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the highest emission, the relative positions of the EUT were rotated through three orthogonal axes.

RBW = As specified in below table, VBW  $\geq$  3 x RBW, Sweep = Auto, Detector = Peak

Trace mode = Max Hold until the trace stabilizes.

Frequency	RBW		
9 - 150 kHz	200 – 300 Hz		
0.15 - 30 MHz	9 – 10 kHz		
31 – 1 000 MHz	101 – 120 kHz		
> 1000 MHz	1 MHz		

#### - Minimum Standard: Part 15.209, 225(d) & RSS-210[B6(d)], RSS-GEN[8.9]

The field strength of any emissions appearing outside of the 13.110 - 14.010 MHz band shall not exceed the general radiated emission limits as below.

Frequency (MHz)	FCC Limit (uV/m)	IC Limit (µA/m)	Measurement Distance (m)
0.009 - 0.490	2 400 / F (kHz)	6.37/F (F in kHz)	300
0.490 – 1.705	2 4000 / F (kHz)	63.7/F (F in kHz)	30
1.705 – 30.0	30	0.08	30

Frequency (MHz)	FCC Limit (uV/m)	IC Limit (uV/m)	Measurement Distance (m)
30 ~ 88	100 **	100	3
88 ~ 216	150 **	150	3
216 ~ 960	200 **	200	3
Above 960	500	500	3

\*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

#### - Measurement Data:

Frequency [MHz]	EUT Axis.	ANT (Note 1)	Reading [dBuV]	TF [dB/m]	DCF [dB]	Electric Field Strength [dBuV/m]	Magnetic Field Strength [dBuA/m]	Limit [dBuV/m]	Limit [dBuA/m]	Margin [dB]
0.538	Z	Р	37.7	11.2	-40	8.9	-42.6	33.0	-18.5	24.1
27.080	Z	Р	15.7	9.0	-40	-15.3	-66.8	29.5	-21.9	44.8
37.760	Z	V	41.8	-10	NA	31.8	-	40.0	-	8.2
39.700	Z	Н	40.2	-9.6	NA	30.6	-	40.0	-	9.4
165.800	Z	Н	32.7	-8.0	NA	24.7	-	43.5	-	18.8
949.547	Z	V	24.7	5.1	NA	29.8	-	46.0	-	16.2
959.247	Z	Н	25.8	5.2	NA	31.0	-	46.0	-	15.0
-	-	-	-	-	-	-	-	-	-	-

Note 1. No other spurious and harmonic emissions were reported greater than listed emissions above table.

Note 2. All data were recorded using a spectrum analyzer employing a peak detector.

If PK results were meet Quasi-peak limit, Quasi-peak measurements were omitted.

#### Note 3. Loop antenna orientation (30 MHz Below)

"P"= Parallel, "V"= perpendicular, "G"= ground-parallel

Bilog antenna polarization (30 MHz above)

"H"= Horizontal, "V"= Vertical

Note 4. Information of Distance Correction Factor

For finding emissions, measurements may be performed at a distance closer than that specified in the regulations.

In this case, the distance factor is applied to the result.

- Calculation of distance correction factor

At frequencies below 30 MHz = 40 log( tested distance / specified distance )

At frequencies at or above 30 MHz = 20 log( tested distance / specified distance )

When distance factor is "N/A", the measurements were performed at the specified distance and distance factor is not applied.

Note 5. Sample calculation

Margin = Limit[dBuV/m] – Electric Field Strength

Electric Field Strength (dBuV/m) = Reading + TF – DCF

Magnetic Field Strength (dBuA/m) = Electric Field Strength - 51.5 dB

TF = AF + CL - AG

Where, TF = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,

DCF = Distance Factor

# 4.2.4 Frequency Stability

#### - Procedure:

Part 15.225 requires that devices operating in the 13.553 - 13.567 MHz shall maintain the carrier frequency within 0.01 % of the operating frequency over the temperature variation of -20 degrees to + 50 degrees C at normal supply voltage.

#### - Measurement Data: Comply

Operating Frequency : 13,560,000 Hz

VOLTAGE (%)	POWER (V <sub>DC</sub> )	ТЕМР (℃)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %		+20(ref)	13,559,739	-261	0.001 925
100 %		-20	13,559,802	-198	0.001 460
100 %		-10	13,559,815	-185	0.001 364
100 %		0	13,559,807	-193	0.001 423
100 %	3.85	+10	13,559,722	-278	0.002 050
100 %		+20	13,559,739	-261	0.001 925
100 %		+30	13,559,701	-299	0.002 205
100 %		+40	13,559,686	-314	0.002 316
100 %		+50	13,559,664	-336	0.002 478
115 %	4.43	+20	13,559,729	-271	0.001 999
85%	3.27	+20	13,559,716	-284	0.002 094

#### - Minimum Standard: Part 15. 225(e) & RSS-210 [B6]

The frequency tolerance of the carrier signal shall be maintained within ±0.01 % of the operating frequency.



# 4.2.5 AC Line Conducted Emissions

#### - Test Requirements and limit

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN).

Frequency Range	Conducted 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 logarithm of the frequency

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

#### - Test Configuration

See test photographs for the actual connections between EUT and support equipment.

#### - Test Procedure

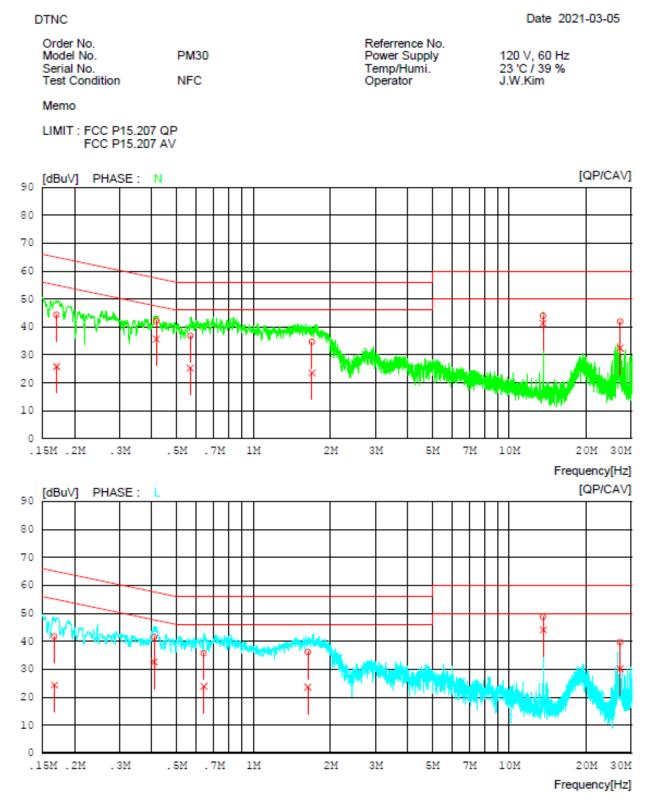
1. The EUT is placed on a wooden table 80 cm above the reference ground plane.

- 2. The EUT is connected via LISN to a test power supply.
- 3. The measurement results are obtained as described below:
- 4. Detectors Quasi Peak and Average Detector.
- Measurement Data: Comply (refer to the next page)



# **Measurement Data**

# Results of Conducted Emission





IC : 10664A-PM30

#### **Measurement Data**

DTNC

# Results of Conducted Emission

Date 2021-03-05

Order No. Model No. PM30 Serial No. Test Condition NFC		Referrence No. Power Supply Temp/Humi. Operator	120 V, 60 Hz 23 'C / 39 % J.W.Kim	
Memo				
LIMIT : FCC P15 FCC P15				
NO FREQ	READING C.FACTOR QP CAV	RESULT LIMIT QP CAV QP CAV	MARGIN PHASE QP CAV	
[MHz]	[dBuV][dBuV] [dB]	[dBuV][dBuV] [dBuV][dBuV]		
	34.3815.91 9.95 32.2125.66 9.98		20.6229.09 N 15.3011.85 N	
	26.7915.31 9.98		19.2320.71 N	
	24.6313.60 10.00		21.37.22.40 N	
	33.5130.88 10.42		16.07 8.70 N	
6 27.12044	31.2921.85 10.63	41.9232.48 60.00 50.00	18.0817.52 N	
	31.6814.34 9.94	41.6224.28 65.12 55.12	23.5030.84 L	
	31.5322.55 9.96	41.4932.51 57.66 47.66	16.1715.15 L	
	25.7213.86 9.97		20.3122.17 L	
10 1.63183	26.0413.55 10.01	36.0523.56 56.00 46.00	19.9522.44 L	
	38.3233.63 10.41 29.0119.53 10.58	48.7344.04 60.00 50.00	11.27 5.96 L 20.4119.89 L	

# **APPENDIX** TEST EQUIPMENT FOR TESTS



Туре	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	20/06/24	21/06/24	MY46471622
Spectrum Analyzer	Agilent Technologies	N9020A	20/06/24	21/06/24	US47360812
Spectrum Analyzer	Agilent Technologies	N9020A	20/06/24	21/06/24	MY50410163
DC Power Supply	Agilent Technologies	66332A	20/06/24	21/06/24	MY43000211
Multimeter	FLUKE	17B+	20/12/16	21/12/16	3630701WS
Signal Generator	Rohde Schwarz	SMBV100A	20/12/16	21/12/16	255571
Thermohygrometer	BODYCOM	BJ5478	20/12/16	21/12/16	120612-1
Thermohygrometer	BODYCOM	BJ5478	20/12/16	21/12/16	120612-2
Loop Antenna	ETS-Lindgren	6502	21/01/28	23/01/28	00226186
BILOG ANTENNA	Schwarzbeck	VULB 9160	20/12/16	21/12/16	3362
PreAmplifier	H.P	8447D	20/12/16	21/12/16	2944A07774
Temp & Humi Test Chamber	SJ Science	SJ-TH-S50	20/06/24	21/06/24	SJ-TH-S50- 130930
Cable	HUBER+SUHNER	SUCOFLEX100	21/01/08	22/01/08	M-01
Cable	HUBER+SUHNER	SUCOFLEX100	21/01/08	22/01/08	M-02
Cable	JUNFLON	MWX241	21/01/08	22/01/08	M-03
Cable	JUNFLON	J12J101757-00	21/01/08	22/01/08	M-07
Cable	HUBER+SUHNER	SUCOFLEX106	21/01/08	22/01/08	M-09
EMI Receiver	ROHDE&SCHWARZ	ESU	20/11/16	21/11/16	100469
PULSE LIMITER	Rohde Schwarz	ESH3-Z2	20/08/25	21/08/25	101333
LISN	SCHWARZBECK	NSLK 8128 RC	20/10/23	21/10/23	8128 RC-387
HYGROMETER	TESTO	608-H1	21/01/19	22/01/19	34862883
Cable	DT&C	Cable	21/01/05	22/01/05	RFC-69
Test Software	tsj	Radiated Emission Measurement	N/A	N/A	Version 2.00.0177
Test Software	tsj	Noise Terminal Voltage Measurement	N/A	N/A	Version 2.00.0170

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017. Note2: The cable is not a regular calibration item, so it has been calibrated by DT&C itself.