FCC RF Test Report

APPLICANT : Getac Technology Corporation.

EQUIPMENT: RFID module

BRAND NAME : Getac

MODEL NAME : TRF7970A

FCC ID : QYLRX10RFID

STANDARD : FCC Part 15 Subpart C §15.225

CLASSIFICATION: (DXX) Low Power Communication Device Transmitter

The testing was completed on Jul. 24, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

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Report No.: FR570164-03

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REVISION HISTORY

Report No. : FR570164-03

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR570164-03	Rev. 01	Initial issue of report	Aug. 24, 2015

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SUMMARY OF THE TEST RESULT

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	Applied Standard: 47 CFR FCC Part 15 Subpart C					
Part	FCC Rule	Result	Under Limit			
2.4	45 207	AC Dower Line Conducted Emissions	Complies	3.60 dB at		
3.1	15.207	AC Power Line Conducted Emissions	Complies	13.558MHz		
2.2	15 225(a)(b)(a)	Field Strongth of Fundamental Emissions	Complies	67.39 dB at		
3.2	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Complies	13.560 MHz		
3.3	2.1049	20dB Spectrum Bandwidth	Complies	-		
	15 225(4)			2.98 dB at		
3.4	15.225(d)	Radiated Emissions	Complies	13.560 MHz		
	15.209			for Quasi-Peak		
3.5	15.225(e)	Frequency Stability	Complies	-		
3.6	15.203	Antenna Requirements	Complies	-		

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.26dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	±4.70dB	Confidence levels of 95%

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1. GENERAL INFORMATION

1.1 Applicant

Getac Technology Corporation.

5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City 11568, Taiwan, R.O.C.

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1.2 Manufacturer

Texas Instruments Inc.

Post Office Box 655303, Dallas, Texas 75265

1.3 Product Details

Items	Description
	Brand Name: Getac
Installed into Tablet	Model Name: RX10
Tx/Rx Frequency Range	13.553 ~ 13.567MHz
Channel Number	1
20dBW	2.64KHz
99%OBW	2.24 KHz
Antenna Type	Loop Antenna
Type of Modulation	ASK

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Modification of EUT

No modifications are made to the EUT during all test items.

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1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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Test Site	SPORTON INTERNATIONAL INC.		
	No. 52, Hwa Ya 1 st Rd., F	lwa Ya Technology Park,	
Test Site Location			
	TEL: +886-3-3273456 / F	AX: +886-3-3284978	
Toot Site No	Sporton Site No.		
Test Site No.	TH02-HY	CO05-HY	03CH07-HY
Test Engineer	Danny Chen Eric Jeng Nick Yu and James Chi		
Temperature	22~24°C 23~25°C 21~24°C		21~24°C
Relative Humidity	53~55% 53~56% 54~58%		

Note: The test site complies with ANSI C63.4 2009 requirement.

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.225
- ANSI C63.10-2009

1.7 Test Modes

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items		
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions	
20dB Spectrum Bandwidth	Frequency Stability	
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz	

Note:

- 1. The EUT was programmed to be in continuously transmitting mode.
- The ancillary equipment, RFID card, is used to make the EUT (RFID) continuously transmit at 13.56MHz and is placed around 3 cm gap to the EUT.

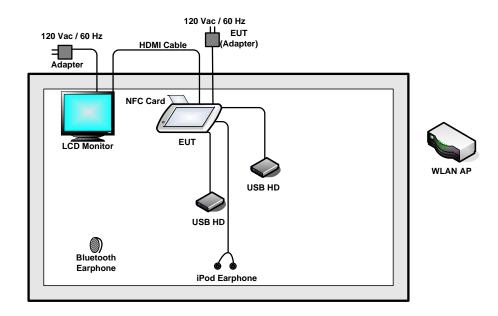
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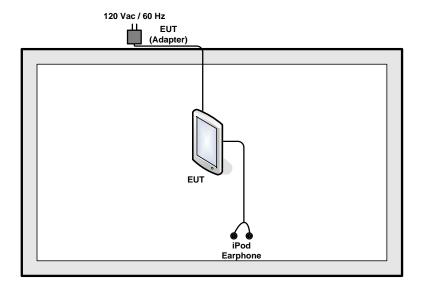
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Test Configurations 1.8

<AC Conducted Emissions>



< For Fundamental Emissions and Mask and Radiated Emissions Measurement >



1.9 Table for Supporting Units

Support Unit	Manufacturer	Model	FCC ID
iPod Earphone	Apple	N/A	Verification

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Report Template No.: BU5-FR15CRFID Version 1.0

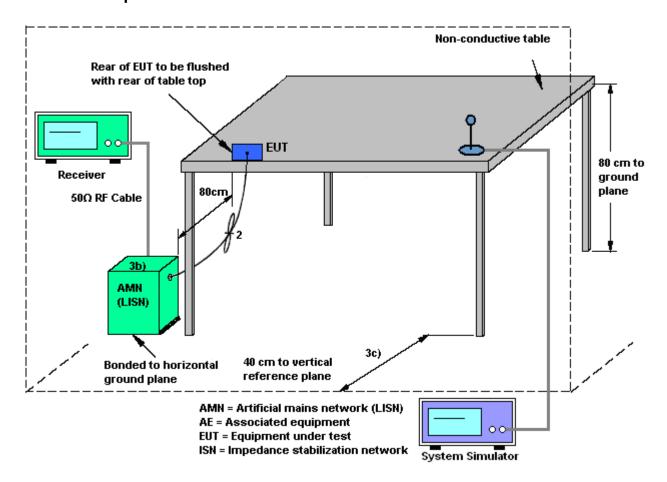
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2. CONDUCTED EMISSION TEST

2.1 Measuring Instruments

See list of measuring instruments of this test report.

2.2 Test setup



2.3 Test Result of Conducted Emission Test

Please refer to Appendix B.

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2.4 AC Power Line Conducted Emissions Measurement

2.4.1 Limit

For equipment 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.

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Frequency of Emission	Conducted Limit (dBμV)	
(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.

2.4.2 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

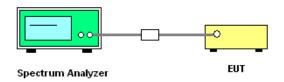
3. CONDUCTED TEST ITEMS

3.1 Measuring Instruments

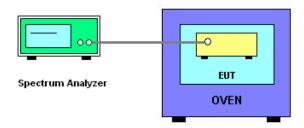
See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 20dB Spectrum Bandwidth



3.2.2 Frequency Stability



3.3 Test Result of Conducted Test Items

Please refer to Appendix C.

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3.4 20dB Spectrum Bandwidth Measurement

3.4.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the

specific band 13.553~13.567MHz

3.4.2 Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak Max hold

mode.

2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.

Measured the spectrum width with power higher than 20dB below carrier.

3.5 Frequency Stability Measurement

3.5.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply

voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply

voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall

be performed using a new battery.

3.5.2 Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.

2. EUT have transmitted signal and fixed channelize.

3. Set the spectrum analyzer span to view the entire emissions bandwidth.

4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.

5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm

and the limit is less than ±100ppm.

6. Extreme temperature rule is -20°C~50°C.

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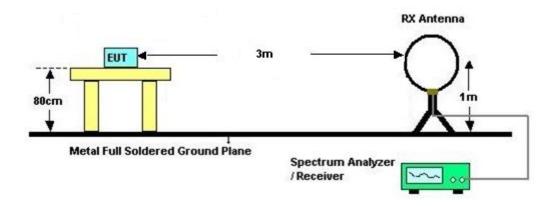
4. RADIATED TEST ITEMS

4.1 Measuring Instruments

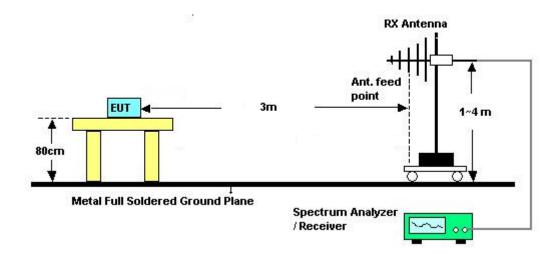
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated emissions below 30MHz



4.2.2 For radiated emissions above 30MHz



4.3 Test Result of Radiated Test Items

Please refer to Appendix D.

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4.4 Field Strength of Fundamental Emissions and Mask Measurement

4.4.1 Limit

Rules and specifications	CFR 47 Part 15 section 15.225(a)-(d)			
Description	Compliance with the spectrum mask is tested using a spectrum analyzer with			
Description	RBW set to a 9kHz for the band 13.553~13.567MHz			
From of Francisco (MIII-)	Field Strength	Field Strength	Field Strength	Field Strength
Freq. of Emission (MHz)	(µV/m) at 30m	(dBµV/m) at 30m	(dBµV/m) at 10m	(dBµV/m) at 3m
1.705~13.110	30	29.5	48.58	69.5
13.110~13.410	106	40.5	59.58	80.5
13.410~13.553	334	50.5	69.58	90.5
13.553~13.567	15848	84.0	103.08	124.0
13.567~13.710	334	50.5	69.58	90.5
13.710~14.010	106	40.5	59.58	80.5
14.010~30.000	30	29.5	48.58	69.5

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4.4.2 Test Procedures

- Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8
 meter above ground. The phase center of the loop receiving antenna mounted antenna tower
 was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
- 4. For Fundamental emissions, use the receiver to measure QP reading.
- 5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 6. Compliance with the spectrum mask is tested using a spectrum analyzer with RBW set to a 9kHz for the band 13.553~13.567MHz.

Note: Emission level (dB μ V/m) = 20 log Emission level (μ V/m).

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4.5 Radiated Emissions Measurement

4.5.1 Limit

The field strength of any emissions which appear outside of 13.553~13.567MHz band shall not exceed the general radiated emissions limits.

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Frequencies	Field Strength	Measurement Distance
(MHz)	(μV/m)	(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.5.2 Measuring Instrument Setting

The following table is the setting of receiver.

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

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4.5.3 Test Procedures

- Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8
 meter above ground. The phase center of the receiving antenna mounted on the top of a
 height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. Antenna Requirements

4.5.4 Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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 an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

4.5.5 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

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5. LIST OF MEASURING EQUIPMENT

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Jun. 24, 2015	Jul. 21, 2015	Jun. 23, 2016	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30°C~70°C	Dec. 01, 2014	Jul. 21, 2015	Nov. 30, 2015	Conducted (TH03-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz – 2.75GHz	Dec. 01, 2014	Jul. 24, 2015	Nov. 30, 2015	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2014	Jul. 24, 2015	Dec. 01, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 24, 2015	N/A	Conduction (CO05-HY)
LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2014	Jul. 24, 2015	Dec. 07, 2015	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Sep. 27, 2014	Jul. 21, 2015	Sep. 26, 2015	Radiation (03CH07-HY)
Loop Antenna	TESEQ	HLA6120	31244	9 kHz~30 MHz	Fed. 02 ,2015	Jul. 21, 2015	Fed. 01, 2016	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1000MH z	Mar. 12, 2015	Jul. 21, 2015	Mar. 11, 2016	Radiation (03CH07-HY)
Signal Analyzer	Rohde & Schwarz	FSV 30	101749	10Hz~30GHz	Mar. 10, 2015	Jul. 21, 2015	Mar. 09, 2016	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jul. 21, 2015	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 degree	N/A	Jul. 21, 2015	N/A	Radiation (03CH07-HY)

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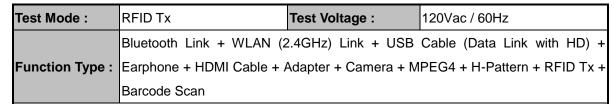
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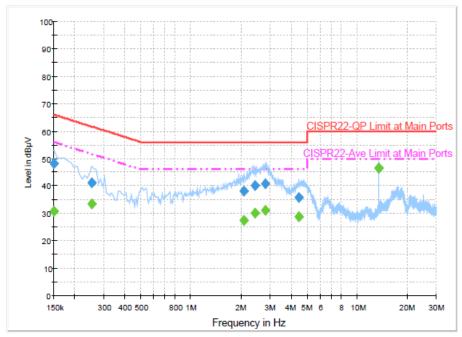
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Appendix B. Test Results of Conducted Emission Test



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Final Result: Quasi-Peak

Frequency (MHz)	Quasi-Peak	Filter	Line	Corr.	Margin (dB)	Limit
(IVITIZ)	(dBµV)			(dB)	(ub)	(dBµV)
0.150000	48.0	Off	L1	19.5	18.0	66.0
0.254000	41.0	Off	L1	19.4	20.6	61.6
2.094000	38.3	Off	L1	19.7	17.7	56.0
2.422000	40.1	Off	L1	19.7	15.9	56.0
2.806000	40.9	Off	L1	19.8	15.1	56.0
4.446000	35.8	Off	L1	19.7	20.2	56.0
13.558000	46.5	Off	L1	19.9	13.5	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter Line			Margin (dB)	Limit (dBµV)
0.150000	30.7	Off	L1	19.5	25.3	56.0
0.254000	33.6	Off	L1	19.4	18.0	51.6
2.094000	27.6	Off	L1	19.7	18.4	46.0
2.422000	30.2	Off	L1	19.7	15.8	46.0
2.806000	31.0	Off	L1	19.8	15.0	46.0
4.446000	28.8	Off	L1	19.7	17.2	46.0
13.558000	46.4	Off	L1	19.9	3.6	50.0

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Test Mode:

RFID Tx

Test Voltage:

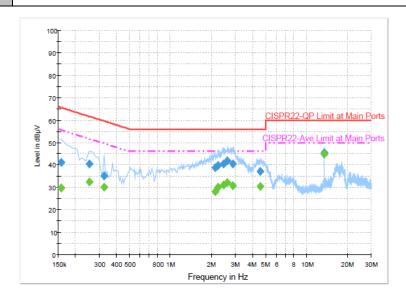
120Vac / 60Hz

Bluetooth Link + WLAN (2.4GHz) Link + USB Cable (Data Link with HD) +

Earphone + HDMI Cable + Adapter + Camera + MPEG4 + H-Pattern + RFID Tx +

Barcode Scan

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Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	41.2	Off	N	19.5	24.4	65.6
0.254000	40.4	Off	N	19.4	21.2	61.6
0.326000	35.0	Off	N	19.5	24.6	59.6
2.134000	38.8	Off	N	19.7	17.2	56.0
2.246000	39.6	Off	N	19.7	16.4	56.0
2.454000	40.6	Off	N	19.7	15.4	56.0
2.622000	41.7	Off	N	19.7	14.3	56.0
2.862000	40.6	Off	N	19.7	15.4	56.0
4.574000	37.1	Off	N	19.8	18.9	56.0
13.558000	45.6	Off	N	20.0	14.4	60.0

Final Result : Average

mai Nesuit : Average									
Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)			
0.158000	29.7	Off	N	19.5	25.9	55.6			
0.130000	25.1	Oii	14	19.5	23.9	33.0			
0.254000	32.5	Off	N	19.4	19.1	51.6			
0.326000	30.0	Off	N	19.5	19.6	49.6			
2.134000	28.2	Off	N	19.7	17.8	46.0			
2.246000	30.0	Off	N	19.7	16.0	46.0			
2.454000	31.0	Off	N	19.7	15.0	46.0			
2.622000	31.9	Off	N	19.7	14.1	46.0			
2.862000	30.8	Off	N	19.7	15.2	46.0			
4.574000	30.4	Off	N	19.8	15.6	46.0			
13.558000	44.9	Off	N	20.0	5.1	50.0			

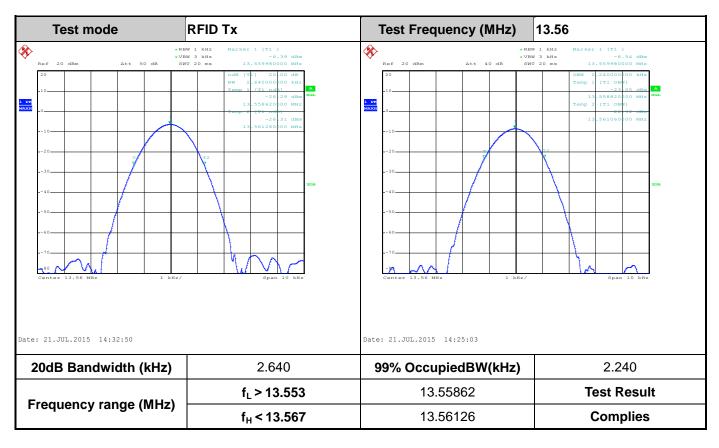
Remark: 13.558MHz is the RFID RF fundamental signal..

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Appendix C. Test Results of Conducted Test Items

C.1 Test Result of 20dB Spectrum Bandwidth



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C.2 Test Result of Frequency Stability

Voltage vs. Freque	ncy Stability	Temperature vs. Frequency Stability			
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Measurement Frequency (MHz)		
120	13.559940	-20	13.559980		
102	13.559940	-10	13.559980		
138	13.559940	0	13.559960		
		10	13.559960		
		20	13.559950		
		30	13.559940		
		40	13.559940		
		50	13.559940		
Max.Deviation (MHz)	-0.000060	Max.Deviation (MHz)	-0.000060		
Max.Deviation (ppm)	-4.4248	Max.Deviation (ppm)	-4.4248		
Limit	FS < ±100 ppm	Limit	FS < ±100 ppm		
Test Result	PASS	Test Result	PASS		

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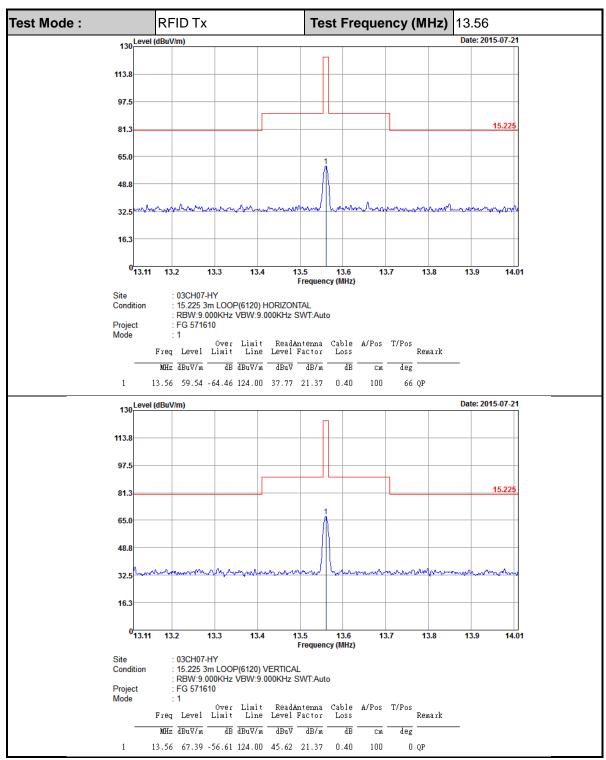
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Appendix D. Test Results of Radiated Test Items

D.1 Test Result of Field Strength of Fundamental Emissions



Note: All RFID's spurious emissions are below 20dB of limits.

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D.2 Results of Radiated Emissions (9 kHz~30MHz)

Test Mode : RFID Tx				Polariz	ation:	Hori	zontal		
Frequency (MHz)	Level	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.02558	27.86	-91.59	119.45	6.67	20.9	0.29	-	-	Average
0.06831	24.68	-86.23	110.91	3.39	21	0.29	-	-	Average
0.09096	21.82	-86.61	108.43	0.43	21.1	0.29	-	-	QP
0.13804	21.81	-82.99	104.8	0.46	21.06	0.29	-	-	Average
0.22786	45.62	-54.83	100.45	24.4	20.93	0.29	-	-	Average
0.55008	39.68	-33.12	72.8	18.66	20.71	0.31	-	-	QP
12.032	36.99	-33.01	70	15.25	21.34	0.4	-	-	QP
13.56	59.38	-10.62	70	37.61	21.37	0.4	-	-	QP
19.411	38.25	-31.75	70	16.33	21.49	0.43	100	0	QP
27.665	38.18	-31.82	70	16.03	21.65	0.5	-	-	QP

Test Mode :	RFID	Tx		Polarization : Vertical					
Frequency (MHz)	Level	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.00931	29.35	-98.88	128.23	7.96	21.1	0.29	-	-	Average
0.06828	23.71	-87.21	110.92	2.42	21	0.29	-	-	Average
0.09228	22.02	-86.28	108.3	0.63	21.1	0.29	-	-	QP
0.12204	21.88	-83.99	105.87	0.53	21.06	0.29	-	-	Average
0.26186	40.62	-58.62	99.24	19.44	20.89	0.29	-	-	Average
0.52755	38.26	-34.9	73.16	17.24	20.71	0.31	-	-	QP
10.952	37.81	-32.19	70	16.1	21.32	0.39	-	-	QP
13.56	67.02	-2.98	70	45.25	21.37	0.4	-	-	QP
20.149	38.14	-31.86	70	16.21	21.5	0.43	-	-	QP
25.62	36.9	-33.1	70	14.82	21.61	0.47	-	-	QP

Note:

- 1. 13.56 MHz is fundamental signal which can be ignored.
- 2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
- 4. Limit line = specific limits ($dB\mu V$) + distance extrapolation factor.

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D.3 Results of Radiated Emissions (30MHz~1GHz)

Test Mode	:	RFID Tx	Polarization : Horizontal							
Frequency (MHz)	Leve	Limit	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	30.86	6 -9.14	40	41.79	18.8	1.77	31.5	-	-	Peak
193.62	27.86	6 -15.64	43.5	47.35	8.92	2.69	31.1	-	-	Peak
258.15	32.2	7 -13.73	46	46.63	13.68	2.96	31	-	-	Peak
419	39.99	9 -6.01	46	50.62	16.65	3.52	30.8	100	0	Peak
580.7	33.09	9 -12.91	46	40.1	19.59	4.08	30.68	-	-	Peak
935.6	28.6	-17.4	46	29.87	24.3	4.8	30.37	-	-	Peak

Test Mode : RFID Tx					arization	:	Vertical			
Frequency (MHz)	Level	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos	Table Pos (deg)	Remark
59.97	16.45	-23.55	40	39.98	6	1.77	31.3	- -	-	Peak
209.01	23.49	-20.01	43.5	42.71	9.19	2.69	31.1	-	-	Peak
258.15	30.75	-15.25	46	45.11	13.68	2.96	31	-	-	Peak
419	41.35	-4.65	46	51.98	16.65	3.52	30.8	100	0	Peak
516.3	32.26	-13.74	46	40.94	18.1	3.89	30.67	-	-	Peak
939.1	29.38	-16.62	46	30.66	24.3	4.8	30.38	-	-	Peak

Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.

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