

Equipment : LCD Tablet

Brand Name : Wacom

Model No. : DTU-1141B

FCC ID : HV4DTU1141B

Standard : 47 CFR FCC Part 15.209

RF Specification : SRD

Operating Band : 531.25kHz~593.75kHz

FCC Classification: DCD

Applicant / : Wacom Co., Ltd.

Manufacturer 2-510-1, Toyonodai, Kazo-shi, Saitama, 349-1148 Japan

The product sample received on Jan. 16, 2017 and completely tested on Jan. 25, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown 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:

ilac MRA



Report No.: FR711609AS

Phoenix Chen / Assistant Manager

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Appendix A. Test Photos

Photographs of EUT v01

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Summary of Test Result

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	Conformance Test Specifications						
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result		
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied		
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]:0.20MHz 50.84 (Margin 12.86dB) - QP 41.79 (Margin 11.91dB) - AV	FCC 15.207	Complied		
3.2	15.209	Transmitter Radiated Emissions	[dBuV/m at 3m]:39.700MHz 32.63(Margin 7.37dB) - QP	FCC 15.209	Complied		
3.3	15.215(c)	Emission Bandwidth	99% Bandwidth: 321.99 [kHz] 20dB Bandwidth:224.31 [kHz]	N/A	Complied		

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Revision History

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Report No.	Version	Description	Issued Date
FR711609AS	Rev. 01	Initial issue of report	Feb. 13, 2016

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1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information				
Fred	quency	531.25kHz ⁻	-593.75kHz	
Modulation	Ch. Frequency (kHz)	Channel Number Field Streng (dBuV/m@1		
ASK	531.25/562.5/593.75kHz	1	53.03	
Note 1: Field strength pe	formed peak level at 1m.			

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1.1.2 Antenna Information

	Antenna Category
\boxtimes	Integral antenna (antenna permanently attached)
	☐ Temporary RF connector provided
	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.
	External antenna (dedicated antennas)
	☐ Single power level with corresponding antenna(s).
	☐ Multiple power level and corresponding antenna(s).

No.	Ant. Cat.	Ant. Type
1	Integral	Array Coil Pointing

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1.1.3 Type of EUT

	Identify EUT					
Pre	Presentation of Equipment					
		Туре	of EUT			
\boxtimes	Stand-alone					
	Combined (EUT where	the radio part is fully integ	grated within another device	e)		
	Combined Equipment -	Brand Name / Model No.	:			
	Plug-in radio (EUT inte	nded for a variety of host s	systems)			
	Host System - Brand N	lame / Model No.:				
	Other:					
1.1.	1.1.4 Test Signal Duty Cycle					
		Operated Mode fo	r Worst Duty Cycle			
\boxtimes	Operated normal mode	e for worst duty cycle				
	Operated test mode for worst duty cycle					
	Test Signal Duty Cycle (x)					
\boxtimes	☑ 100.00%					
1.1.	1.1.5 EUT Operational Condition					
Sup	oply Voltage	AC mains	□ DC			
Тур	Type of DC Source ☐ External AC adapter ☐ From Host System ☐ From Battery					

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1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013

1.3 Testing Location Information

	Testing Location						
	HWA YA	ADE) :	: No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.			
		TEL	:	886-3-327-345	6 FAX : 886	6-3-327-0973	
Test Condition		n	T	est Site No.	Test Engineer	Test Environment	Test Date
AC Conduction		n		CO04-HY	Ryan	21°C / 52%	25/Jan/2017
RF Conducted		d		TH01-HY	Gary	21°C / 61%	23/Jan/2017
Radiated Emission		sion	C	3CH03-HY	Jeff	23.5C / 55%	21/Jan/2017

Test site registered number [553509] with FCC.

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1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

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Measurement Uncertainty					
Test Item		Uncertainty			
AC power-line conducted emissions		±2.3 dB			
Emission bandwidth, 6dB bandwidth		±0.6 %			
RF output power, conducted		±0.1 dB			
Power density, conducted		±0.6 dB			
Unwanted emissions, conducted	9 – 150 kHz	±0.4 dB			
	0.15 – 30 MHz	±0.4 dB			
	30 – 1000 MHz	±0.6 dB			
	1 – 18 GHz	±0.5 dB			
	18 – 40 GHz	±0.5 dB			
	40 – 200 GHz	N/A			
All emissions, radiated	9 – 150 kHz	±2.5 dB			
	0.15 – 30 MHz	±2.3 dB			
	30 – 1000 MHz	±2.6 dB			
	1 – 18 GHz	±3.6 dB			
	18 – 40 GHz	±3.8 dB			
	40 – 200 GHz	N/A			
Temperature		±0.8 °C			
Humidity		±5 %			
DC and low frequency voltages		±0.9 %			
Time		±1.4 %			
Duty Cycle		±0.6 %			

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2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Transmitter Mode	Field Strength (dBuV/m@1m)	Field Strength (dBuV/m@3m)
Touch Panel	53.03	33.95

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2.2 Test Channel Frequencies Configuration

Modulation	Test Channel Frequencies (kHz)
ASK	562.5

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests		
Tests Item AC power-line conducted emissions		
Condition AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz		
Operating Mode		
1	USB Mode	

The Worst Case Mode for Following Conformance Tests							
Tests Item		Emission Bandwidth, Field Strength of Fundamental Emissions Transmitter Radiated Unwanted Emissions					
Test Condition	Radiated measurement						
	☐ EUT will be placed in	EUT will be placed in fixed position.					
User Position	EUT will be placed in mobile position and operating multiple EUT shall be performed three orthogonal planes.						
	EUT will be a hand-he operating multiple pos	wered devices and					
Operating Mode	Operating Mode Description	Operating Mode Description					
1	USB Mode	USB Mode					
Transmitter Mode	Touch Panel						
	X Plane	Y Plane	Z Plane				
Orthogonal Planes of EUT							
Worst Planes of EUT	V						

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2.4 Accessory and Support Equipment

Accessories						
LICE Coble	Brand Name	Wacom	Wacom Model Name STJ-A366			
USB Cable	Signal Line	2 meter, non-shielded cable, w/o ferrite core				
Touch Pen	Brand Name	Wacom	Model Name	UP-7724 series		
Panel	Brand Name	AUO	Model Name	G101HAN01		

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Note: Regarding to more detail and other information, please refer to user manual.

	Support Equipment – RF Conducted						
No.	o. Equipment Brand Name Model Name						
-	-	-	-				

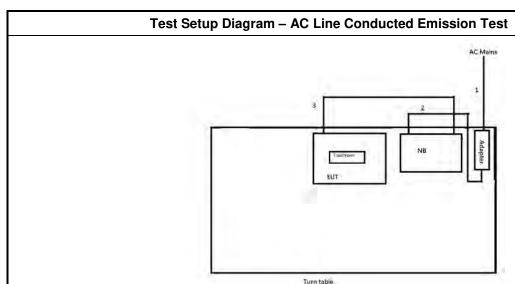
	Support Equipment – AC Line Conducted Emission						
No.	Equipment Brand Name Model Name						
1	Notebook	Dell	E6400				
2	AC adapter for NB	Dell	LA65NS2-01				

	Support Equipment – Radiated Emission						
No.	Equipment Brand Name Model Name						
1	Notebook	Dell	E6400				
2	AC adapter for NB	Dell	LA65NS2-01				

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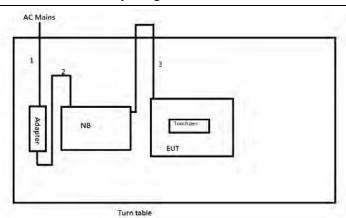
2.5 Test Setup Diagram



Item Connection **Shielded** Length(m) Remark AC Power 1 No 1.8m Line DC Power 2 No 1.8m Line USB cable 3 No 2m

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Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Line	No	1.8m	-
2	DC Power Line	No	1.8m	-
3	USB cable	No	2m	

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3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit					
Frequency Emission (MHz)	Quasi-Peak	Average			
0.15-0.5	66 - 56 *	56 - 46 *			
0.5-5	56	46			
5-30	60	50			

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3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

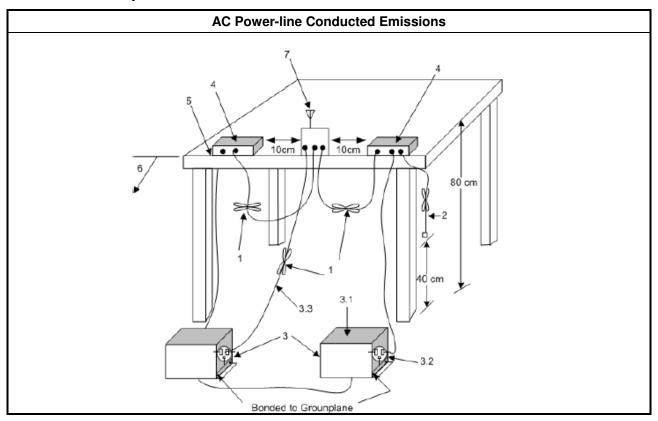
3.1.3 Test Procedures

	Test Method							
\boxtimes	Refe	er as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.						
\boxtimes	If AC	conducted emissions fall in operating band, then following below test method confirm final result.						
		Accept measurements done with a suitable dummy load replacing the antenna under the following conditions: (1) Perform the AC line conducted tests with the antenna connected to determine compliance with FCC 15.207 limits outside the transmitter's fundamental emission band; (2) Retest with a dummy load to determine compliance with FCC 15.207 limits within the transmitter's fundamental emission band.						
		For a device with a permanent antenna operating at or below 30 MHz, accept measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) Perform the AC line conducted tests with the permanent antenna to determine compliance with the FCC 15.207 limits outside the transmitter's fundamental emission band; (2) Retest with a dummy load in lieu of the permanent antenna to determine compliance with the FCC 15.207 limits within the transmitter's fundamental emission band.						

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3.1.4 Test Setup

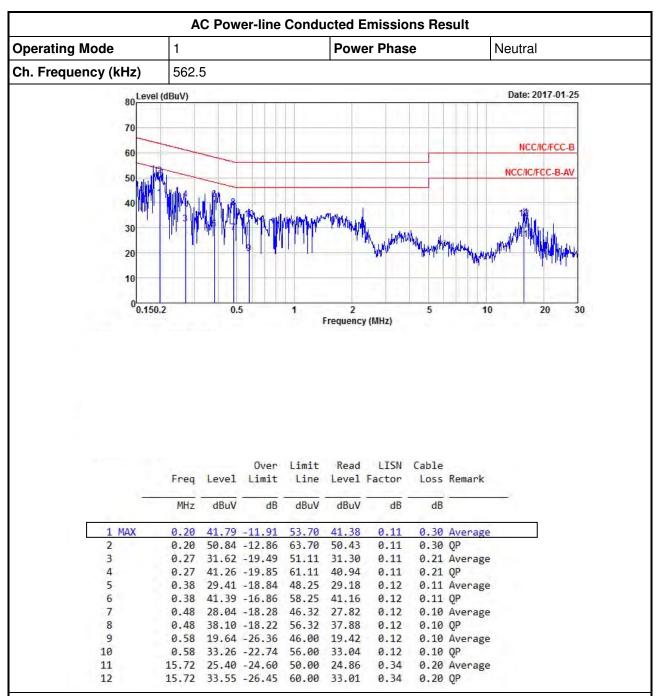


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3.1.5 Test Result of AC Power-line Conducted Emissions



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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

Note 3: When emissions are in operating band over limits, retest with a dummy load for final in-band results.

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AC Power-line Conducted Emissions Result Operating Mode Power Phase Line Ch. Frequency (kHz) 562.5 80 Level (dBuV) Date: 2017-01-25 70 NCC/IC/FCC-B 60 NCC/IC/FCC-B-AV 50 20 10 0.150.2 0.5 5 10 20 30 Frequency (MHz) Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark dBuV dB dBuV dBuV dB 0.19 39.11 -14.91 54.02 38.71 0.11 0.29 Average 2 MAX 0.19 49.74 -14.28 64.02 49.34 0.11 0.29 QP 0.27 31.42 -19.56 50.98 31.10 3 0.11 0.21 Average 0.27 40.06 -20.92 60.98 39.74 4 0.11 0.21 QP 0.11 Average 0.39 27.06 -20.97 48.03 26.83 0.12 0.39 38.93 -19.10 58.03 38.70 0.12 0.11 QP 0.55 23.57 -22.43 46.00 23.35

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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

0.55 33.99 -22.01 56.00 33.77

2.31 21.09 -24.91 46.00 20.68

2.31 27.44 -28.56 56.00 27.03

16.66 20.65 -29.35 50.00 20.12

16.66 27.58 -32.42 60.00 27.05

Note 3: When emissions are in operating band over limits, retest with a dummy load for final in-band results.

0.10 Average

0.26 Average

0.20 Average

0.10 QP

0.26 QP

0.20 QP

0.12

0.12

0.15

0.15

0.33

0.33

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FAX: 886-3-327-0973

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3.2 Transmitter Radiated Emissions

3.2.1 Transmitter Radiated Emissions Limit

Transmitter Radiated Emissions Limit							
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)				
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300				
0.490~1.705	24000/F(kHz)	33.8 - 23	30				
1.705~30.0	30	29	30				
30~88	100	40	3				
88~216	150	43.5	3				
216~960	200	46	3				
Above 960	500	54	3				

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- Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
- Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.
- Note 3: the frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 1GHz measurements employing a CISPR guasi-peak detector.

3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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3.2.3 Test Procedures

	Test Method
\boxtimes	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1 GHz and test distance is 3m. Note: The test distance of radiated emissions from 662kHz to 672kHz is 1m.
	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz. The frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 30MHz measurements employing a CISPR quasi-peak detector. Test distance is 3m.
	At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the requirements; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be following below methods. Note: If fundamental emission level is smaller than noise at 3m, we will change distance to 1m.
	The results shall be extrapolated to the specified distance by making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor.
	The results shall be by using the square of an inverse linear distance extrapolation factor (40 dB/decade).
	For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level.
\boxtimes	The any unwanted emissions level shall not exceed the fundamental emission level.
	All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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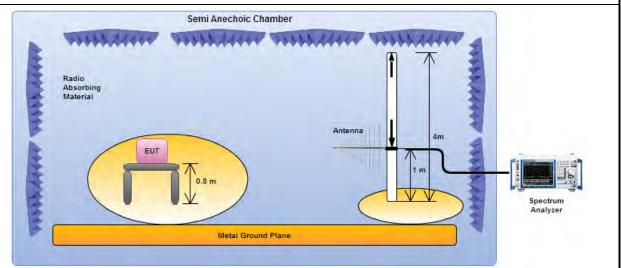


3.2.4 Test Setup

Semi Anechoic Chamber Radio Absorbing Material Metal Ground Plane Transmitter Radiated Emissions Semi Anechoic Chamber Semi Anechoic Chamber Analyzer

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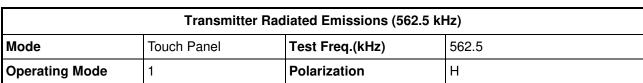
Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. The center of the loop shall be 1 m above the ground.



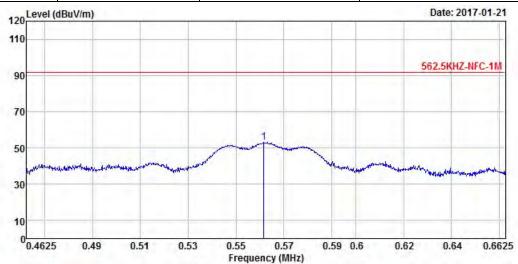
Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna. the antenna height shall be varied from 1 m to 4 m.

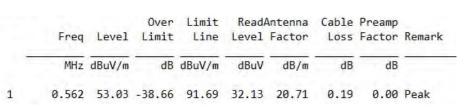
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Transmitter Radiated Emissions (Below 30MHz)



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Note 1: ">20dB" means spurious emission levels that exceed the level of 6 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement worst emissions of receive antenna polarization: H (Horizontal).

Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

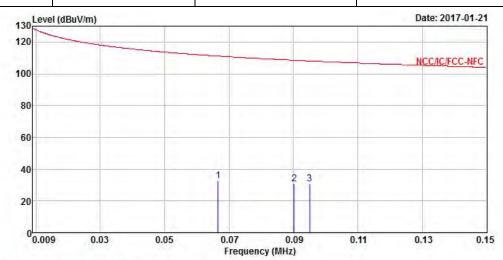
Note 5: Test fundamental emission at 1m.

Note 6: Below 30MHz of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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Transmitter Radiated Emissions (9kHz~150kHz)						
Mode	Touch Panel	Test Freq.(kHz)	562.5			
Operating Mode	1	Polarization	Н			

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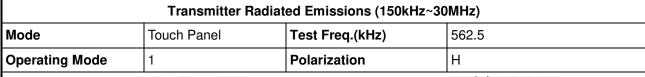
	Freq	Level l	Over Limit ReadA vel Limit Line Level						
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	0.067	32.66	-78.49	111.15	11.59	21.00	0.07	0.00	Peak
2	0.090	30.92	-77.58	108.50	9.74	21.10	0.08	0.00	Peak
3	0.095	30.87	-77.18	108.05	9.69	21.10	0.08	0.00	Peak

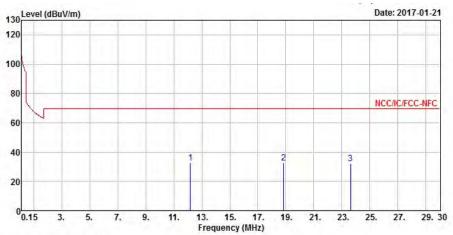
- Note 1: ">20dB" means spurious emission levels that exceed the level of 6 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement worst emissions of receive antenna polarization: H (Horizontal).
- Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.
- Note 5: Except fundamental emission, other emissions from digital circuitry used to control additional panel functions or display capabilities other than the touch panel radio transmission. While disable touch panel radio transmission, other emissions have the same levels. Therefore other emissions level could be exceed the fundamental emission level.

Note 6 : Below 30MHz of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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	Freq	Level	Over Limit			Antenna Factor			Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	12.180	32.38	-37.16	69.54	10.39	21.34	0.65	0.00	Peak
2	18.836	32.76	-36.78	69.54	10.48	21.48	0.80	0.00	Peak
3	23.612	32.25	-37.29	69.54	9.74	21.57	0.94	0.00	Peak

- Note 1: ">20dB" means spurious emission levels that exceed the level of 6 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement worst emissions of receive antenna polarization: H (Horizontal).
- Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.
- Note 5: Except fundamental emission, other emissions from digital circuitry used to control additional panel functions or display capabilities other than the touch panel radio transmission. While disable touch panel radio transmission, other emissions have the same levels. Therefore other emissions level could be exceed the fundamental emission level.

Note 6: Below 30MHz of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

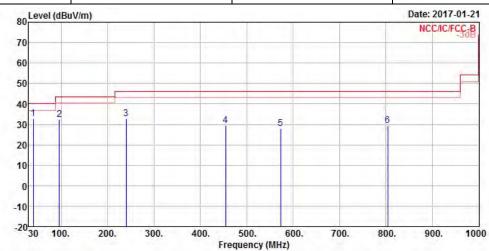
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Transmitter Radiated Emissions (Above 30MHz)

Transmitter Radiated Emissions (Above 30MHz) Mode Touch Panel Test Freq.(kHz) 562.5

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Operating Mode 1 Polarization V



		Level				Antenna Factor			
-		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	39.700	32.63	-7.37	40.00	41.36	17.75	1.05	27.53	QP
2	95.960	32.50	-11.00	43.50	43.16	15.17	1.57	27.40	Peak

2	93.900	32.30	-11.00	43.30	43.10	13.1/	1.3/	27.40 Feak	
3	239.520	32.91	-13.09	46.00	40.88	16.35	2.51	26.83 QP	
4	454.860	29.31	-16.69	46.00	31.14	21.90	3.57	27.30 Peak	
5	573.200	28.10	-17.90	46.00	28.23	23.75	4.08	27.96 Peak	
6	804.060	29.35	-16.65	46.00	27.27	24.85	5.00	27.77 Peak	

Note 1: ">20dB" means spurious emission levels that exceed the level of 6 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

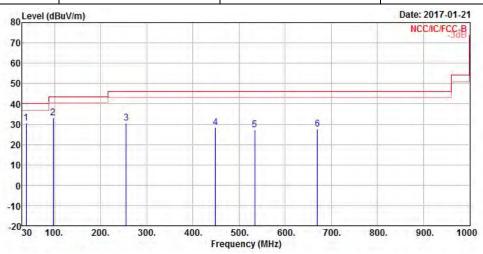
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

Note 5: Except fundamental emission, other emissions from digital circuitry used to control additional panel functions or display capabilities other than the touch panel radio transmission. While disable touch panel radio transmission, other emissions have the same levels. Therefore other emissions level could be exceed the fundamental emission level.

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Transmitter Radiated Emissions (Above 30MHz)							
Mode	Touch Panel	Test Freq.(kHz)	592.5				
Operating Mode	1	Polarization	Н				

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	Freq	Level	Over Limit	Limit Line		Antenna Factor			
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	38.730	30.48	-9.52	40.00	38.78	18.19	1.04	27.53	Peak
2	96.930	32.95	-10.55	43.50	43.40	15.37	1.58	27.40	Peak
3	255.040	30.40	-15.60	46.00	36.55	18.05	2.60	26.80	Peak
4	449.040	28.44	-17.56	46.00	30.34	21.81	3.53	27.24	Peak
5	534.400	27.13	-18.87	46.00	27.57	23.42	4.02	27.88	Peak
6	670.200	27.42	-18.58	46.00	27.00	23.99	4.39	27.96	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 6 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

Note 5: Except fundamental emission, other emissions from digital circuitry used to control additional panel functions or display capabilities other than the touch panel radio transmission. While disable touch panel radio transmission, other emissions have the same levels. Therefore other emissions level could be exceed the fundamental emission level.

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3.3 Emission Bandwidth

3.3.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
N/A	

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3.3.2 Measuring Instruments

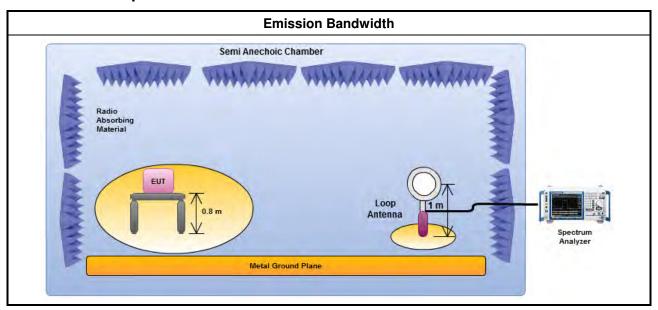
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method

- For the emission bandwidth refer ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
- For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level.

3.3.4 Test Setup



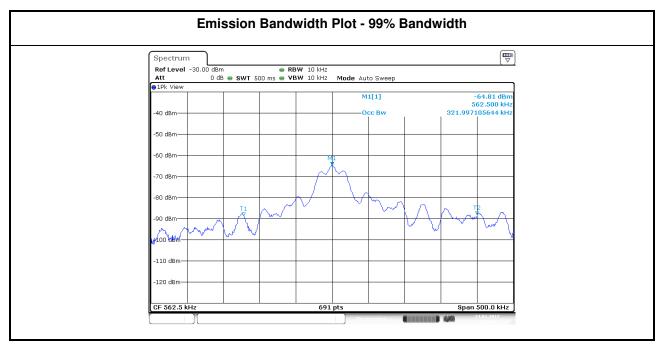
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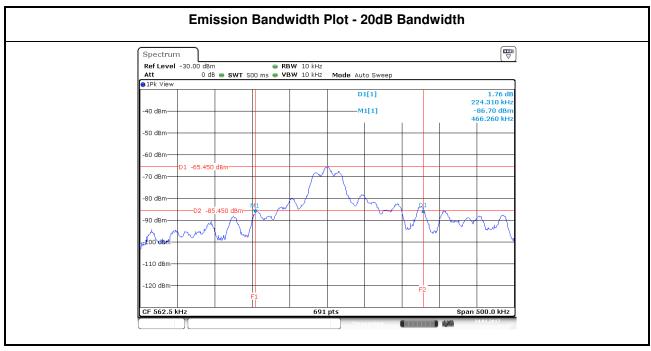


3.3.5 Test Result of Emission Bandwidth

Occupied Channel Bandwidth Result										
Transmitter Mode	Frequency (kHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)							
Touch Panel	562.5	321.99	224.31							
Limit		N	/ A							
Res	ult	Com	plied							

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4 Test Equipment and Calibration Data

<AC Power-line Conducted Emissions>

CAC FOWEI-IIIIe COII					Calibration	Calibration
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Date	Due Date
EMC Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	19/Apr/2016	18/Apr/2017
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	26/Jan/2016	25/Jan/2017
LISN (Support Unit)	R&S	ENV216	101295	9kHz ~ 30MHz	NCR	NCR
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	24/Oct/2016	23/Oct/2017
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	NCR	NCR

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NCR: Non-Calibration Require

<RF Conducted>

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/2017

<Radiated Emission>

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	28/Nov/2016	27/Nov/2017
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	23/Jul/2016	22/Jul/2017
Spectrum	R&S	FSV40	101513	9kHz ~ 40GHz	16/Feb/2016	15/Feb/2017
Bilog Antenna	SCHAFFNER	CBL 6112B	2723	30MHz ~ 1GHz	15/Oct/2016	30/Sep/2017
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	10/May/2016	09/May/2017
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	02/Feb/2015	01/Feb/2017

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