

FCC Test Report

Equipment : Tablet
Brand Name : Getac

Model No. : RX10

FCC ID : QYL6022AKU

Standard : 47 CFR FCC Part 15.209

Operating Band : 125 kHz (channel frequency 125kHz)

FCC Classification: DXX

Applicant : Getac Technology Corporation.

5F., Building A, No. 209, Sec. 1, Nangang Rd., Nangang

Dist., Taipei City 11568, Taiwan, R.O.C.

Manufacturer : Getac Technology(Kunshan)Co., LTD.

No. 269, No. 2 Avenue, Kunshan Comprehensive Free Trade

Zone, Jiangsu Province, P.R.C

The product sample received on May 23, 2016 and completely tested on Jun. 30, 2016. 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:

Kevin Liang / Assistant Manager

Testing Laboratory 1190

Report No.: FR570164-20

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Summary of Test Result

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]:0.1856300MHz 50.70 (Margin 13.53dB) - QP 32.15 (Margin 22.08dB) - AV	FCC 15.207	Complied			
3.2	15.209	Transmitter Radiated Emissions	[dBuV/m at 3m]: 33.88MHz 30.37 (Margin 9.63dB) - PK	FCC 15.209	Complied			
3.3	15.215(c)	Emission Bandwidth	20dB Bandwidth 24.89 [kHz]	N/A	Complied			

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Revision History

Report No.: FR570164-20

Report No.	Version	Description	Issued Date
FR570164-20	Rev. 01	Initial issue of report	Aug. 18, 2016
FR570164-20	Rev. 02	Dongle module external photo is replaced	Aug. 31, 2016
FR570164-20	Rev. 03	Modified Model name/ Equipment Name/Brand name	Sep. 14, 2016
FR570164-20	Rev. 04	Revise FCC Classification	Sep. 21, 2016

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1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information							
Frequency Range	Modulation	Ch. Frequency (kHz)	Channel Number	Field Strength (dBuV/m)			
125 kHz	OOK	125	1	66			
Note 1: Field strength performed peak level at 3m.							

1.1.2 Antenna Information

	Antenna Category					
	Equipment placed on the	market without antennas				
\boxtimes	Integral antenna (antenna permanently attached)					
	External antenna (dedicated antennas)					
1.1.	1.1.3 Type of EUT					
	Identify EUT					
FUT	Serial Number	N/A				

		identity = 0 :				
EU	Γ Serial Number	N/A				
Pre	sentation of Equipment	□ Production ; □ Pre-Production ; □ Prototype				
	Type of EUT					
	Stand-alone					
\boxtimes	Combined (EUT where the radio part is fully integrated within another device)					
	Combined Equipment - Brand Name / Model No.: Getac / RX10					
	Plug-in radio (EUT intended for a variety of host systems)					
	Host System - Brand Name / Model No.:					
	Other:					

1.1.4 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle						
Operated normally mode for worst duty cycle	Operated normally mode for worst duty cycle					
○ Operated test mode for worst duty cycle						
Test Signal Duty Cycle (x) Power Duty Factor[dB] – (10 log 1/x)						
☑ 100%	0.00					

1.1.5 EUT Operational Condition

Supply Voltage	\boxtimes	AC mains	\boxtimes	DC		
Type of DC Source	\boxtimes	External AC adapter		From Host System	\boxtimes	Battery

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1.2 Accessories and Support Equipment

	Specification of Accessory							
	Brand Name	FSP GROUF	INC.	Model	Name	FSP065-REB		
AC Adoptor 1	Power Rating	I/P: 100-240\	√ac, 1.5 <i>A</i>	; O/P:	19Vdc, 3.4	2A		
AC Adapter 1	Power Cord	1.7 meter, no	1.7 meter, non-shielded cable, w/o ferrite core					
	Power Cable	1.5 meter, non-shielded cable, with a ferrite core						
Pottory 1	Brand Name	Getac	Model Name BP4S1P21		BP4S1P21	100-S		
Battery 1	Power Rating	I/P: 15.2Vdc,	I/P: 15.2Vdc, 2160mAh					
Pattory 2	Brand Name	Getac	Model N	lame	BP4S2P29	900-P		
Battery 2 Power Rat		I/P: 14.4Vdc, 5800mAh						
RFID	Brand Name	RF IDeas	Model N	ame	RDR-6022	AKU		
Digitizer Module	Brand Name	PENTECH	Model N	ame	TP-101S0	1-H1S1-GT		

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

1.3 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

1.4 Testing Location Information

	Testing Location							
\boxtimes	HWA YA	ADE	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.					
	TEL: 886-3-327-3456 FAX: 886-3-327-0973							
Te	est Condition	on	Т	est Site No.	Test Engineer	Test Environment	Test Date	
F	RF Conducte	ed		TH01-HY	Jeremy	23°C / 63%	Jun. 28, 2016	
Α	C Conduction	n		CO04-HY	Ryan	23°C / 55%	Jun. 30, 2016	
Rad	diated Emiss	sion	(03CH02-HY	Daniel	21.6°C / 56%	Jun. 21, 2016	

Test site registered number [553509] with FCC.

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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

Mode	Field Strength (dBuV/m at 3m)
ООК	66

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2.2 Test Channel Frequencies Configuration

Mode	Test Channel Frequencies (kHz)
ООК	125

2.3 The Worst Case Measurement Configuration

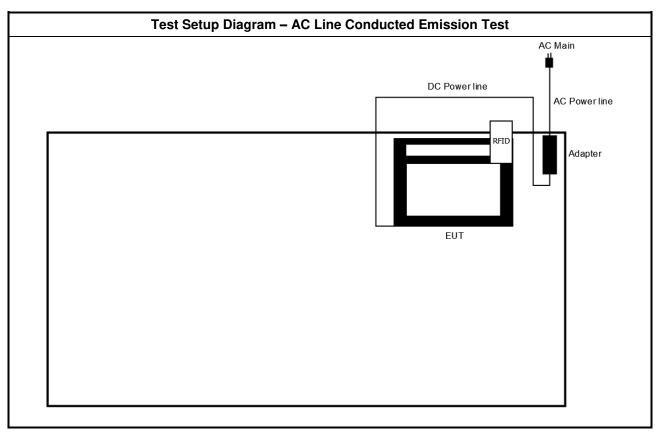
TI	ne Worst Case Mode for Following Conformance Tests
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Operating Mode Description
1	Transmit Mode

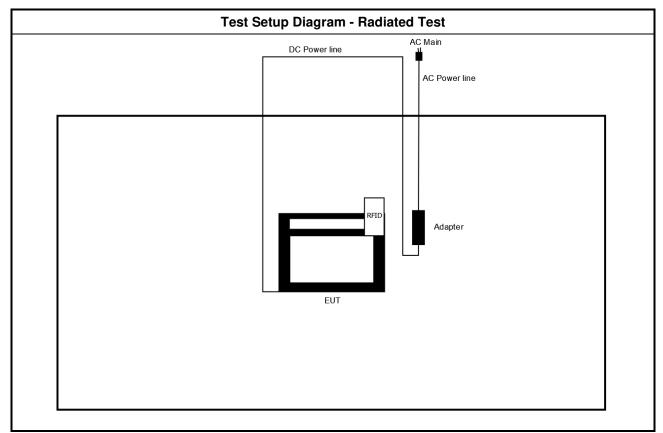
Th	e Worst Case Mode for Fo	ollowing Conformance Te	sts					
Tests Item		mission Bandwidth, Field Strength of Fundamental Emissions ransmitter Radiated Unwanted Emissions						
Test Condition	Radiated measurement	Radiated measurement						
	☐ EUT will be placed in	EUT will be placed in fixed position.						
User Position	EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes.							
		eld or body-worn battery-powered devices and sitions. EUT shall be performed three orthogonal						
Operating Mode	Operating Mode Description	on						
1								
	X Plane	Y Plane	Z Plane					
Orthogonal Planes of EUT								
Worst Planes of EUT		V						

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2.4 Test Setup Diagram





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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.

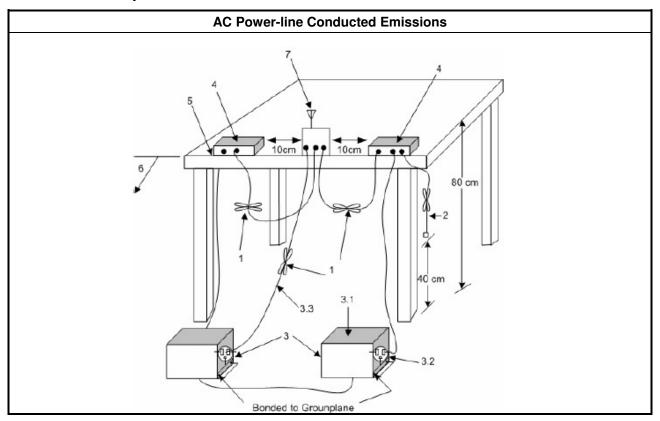
3.1.3 Test Procedures

	Test Method									
\boxtimes	Refer 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 follow conditions: (1) Perform the AC line conducted tests with the antenna connected to determine compliance of 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

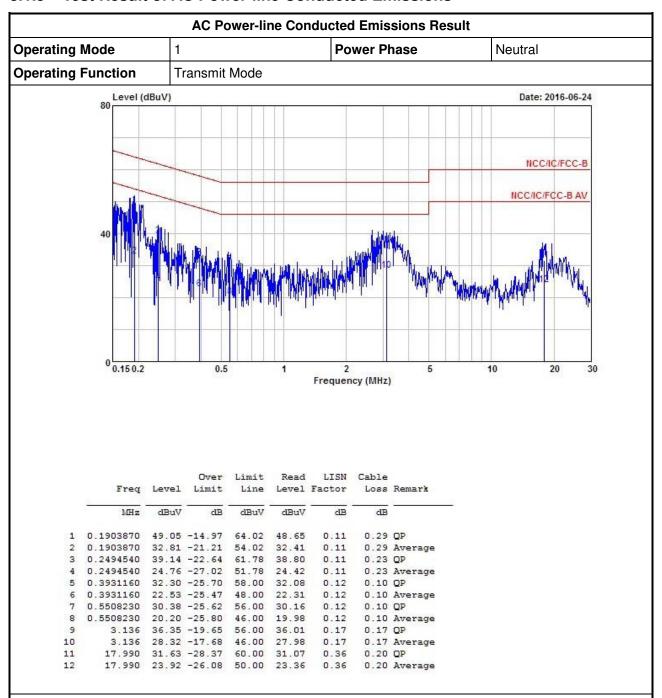


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3.1.5 Test Result of AC Power-line Conducted Emissions



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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 **Operating Function** Transmit Mode Date: 2016-06-24 Level (dBuV) NCC/IC/FCC-B NCC/IC/FCC-B AV 0.15 0.2 0.5 2 5 10 20 30 Frequency (MHz) Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB 1 @0.1856300 50.70 -13.53 64.23 2 0.1856300 32.15 -22.08 54.23 0.11 50.31 0.28 QP 31.76 0.11 0.28 Average 0.2494270 24.95 -26.83 51.78 24.61 0.11 0.23 Average 0.2494270 39.71 -22.07 61.78 39.37 0.11 0.23 QP

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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.)

5 0.3129920 20.09 -29.80 49.89 19.80

6 0.3129920 33.57 -26.32 59.89 33.28

8 0.5418230 19.63 -26.37 46.00 19.41 9 3.000 27.32 -18.68 46.00 26.98

0.5418230 30.84 -25.16 56.00 30.62

3.000 36.63 -19.37 56.00 36.29

18.040 32.77 -27.23 60.00 32.23

18.040 24.95 -25.05 50.00 24.41

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

0.12

0.12

0.12

0.12

0.16

0.16

0.34

0.34

0.17 Average

0.10 Average

0.18 Average

0.20 Average

0.17 QP

0.10 QP

0.18 QP

0.20 QP

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3.2 Transmitter Radiated Emissions

3.2.1 Transmitter Radiated Emissions Limit

	Transmitter Radiat	ed 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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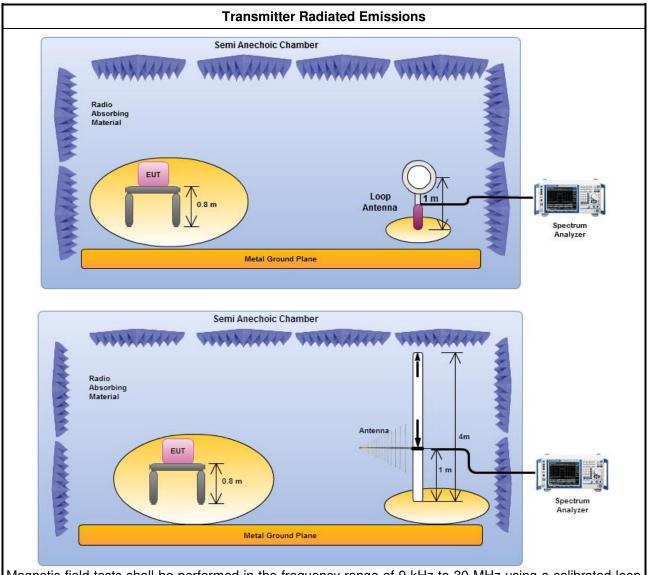
3.2.3 Test Procedures

	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.
\boxtimes	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.
\boxtimes	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.
	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).
\boxtimes	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



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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.

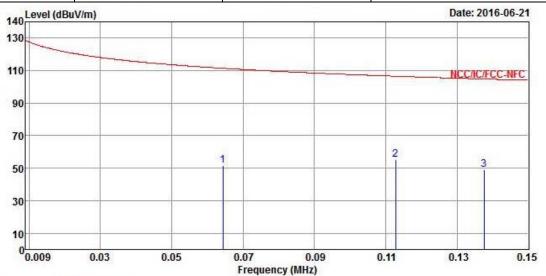
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3.2.5 Transmitter Radiated Emissions (Below 30MHz)

Tra	ansmitter Radiated Unw	anted Emissions (9 kHz	z –150 kHz)
Modulation Mode	OOK	Polarization	Н
Operating Mode	1	Operating Function	Transmit Mode

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	Freq	Level		Limit Line				000000	Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	0.0643	51.48	-59.97	111.45	30.43	21.00	0.05	0.00	Peak
2	0.1128	55.15	-51.41	106.56	33.98	21.10	0.07	0.00	Peak
3	0.1376	49.31	-55.53	104.84	28.17	21.06	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).

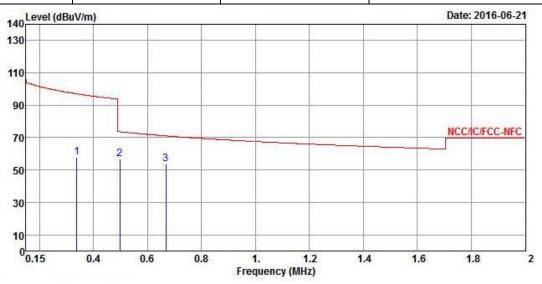
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (150 kHz – 2 MHz)					
Modulation Mode	OOK	Polarization	Н		
Operating Mode	1	Operating Function	Transmit Mode		

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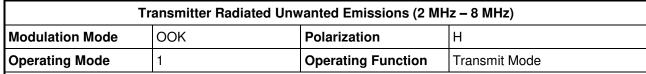
	Freq	Level		Limit Line				900	Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	0.3387	57.70	-39.32	97.02	36.80	20.78	0.12	0.00	Peak
1 2 3	0.4978	56.63	-17.04	73.67	35.82	20.70	0.11	0.00	Peak
3	0.6680	53.92	-17.20	71.12	33.05	20.74	0.13	0.00	Peak

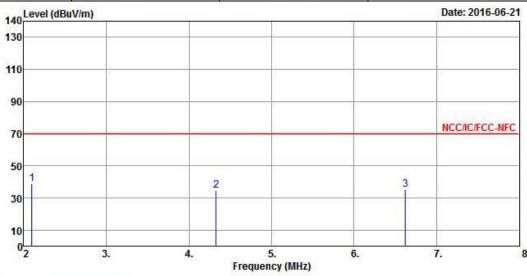
Note 1: ">20dB" means spurious emission levels that exceed the level of 6 dB below the applicable limit.

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.

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	Freq	Level		Limit Line				1000	Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	2.0960	38.50	-31.04	69.54	17.89	20.41	0.20	0.00	Peak
1 2 3	4.3280	34.70	-34.84	69.54	13.78	20.63	0.29	0.00	Peak
3	6.6200	35.34	-34.20	69.54	13.93	21.03	0.38	0.00	Peak

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

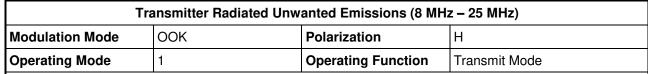
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

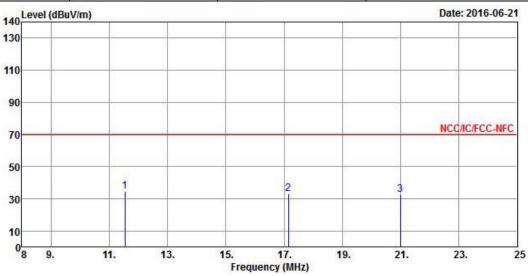
Note 3: Measurement worst emissions of receive antenna polarization: H (Horizontal).

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

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	Freq	Level		Limit Line					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	11.5360	34.80	-34.74	69.54	12.96	21.33	0.51	0.00	Peak
2	17.1460	33.03	-36.51	69.54	11.00	21.44	0.59	0.00	Peak
3	20.9880	32.54	-37.00	69.54	10.37	21.52	0.65	0.00	Peak

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

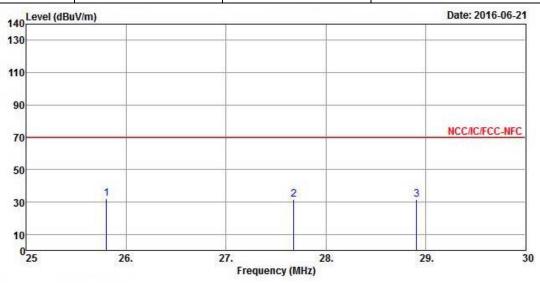
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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.

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Transmitter Radiated Unwanted Emissions (25 MHz – 30 MHz)								
Modulation Mode	OOK	Polarization	Н					
Operating Mode	1	Operating Function	Transmit Mode					



	Freq	Level		Limit Line					Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	25.8000	32.19	-37.35	69.54	9.86	21.62	0.71	0.00	Peak
2	27.6800	31.65	-37.89	69.54	9.31	21.65	0.69	0.00	Peak
3	28.9100	31.61	-37.93	69.54	9.24	21.68	0.69	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).

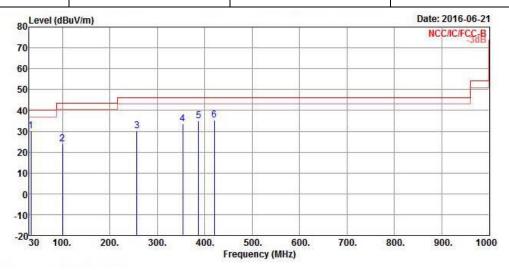
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Emissions (Above 30MHz)

Transmitter Radiated Emissions (Above 30MHz) **Modulation Mode** OOK Test Freq. (FX) 125 kHz **Polarization Operating Function** Transmit

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	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	33.8800	30.37	-9.63	40.00	35.06	22.40	0.74	27.83	Peak
2	99.8400	23.91	-19.59	43.50	33.85	16.38	1.44	27.76	Peak
3	256.9800	30.36	-15.64	46.00	37.16	18.16	2.25	27.21	Peak
4	353.9800	33.55	-12.45	46.00	37.88	20.53	2.63	27.49	Peak
5	386.9600	35.06	-10.94	46.00	38.54	21.41	2.90	27.79	Peak
6	419,9400	35.44	-10.56	46.00	38.39	21.95	3.10	28.00	Peak

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

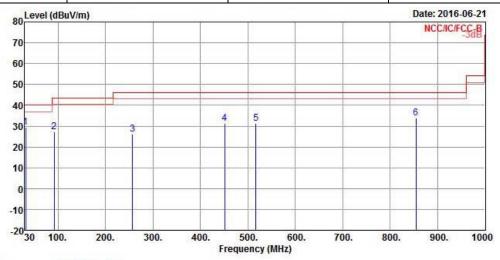
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

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

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

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Transmitter Radiated Emissions (Above 30MHz) Modulation Mode OOK Test Freq. (FX) 125 kHz Operating Function Transmit Polarization H



	Freq	Level	Over Limit			Antenna Factor		900	Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	31.9400	29.60	-10.40	40.00	33.08	23.67	0.71	27.86	Peak
2	92.0800	27.36	-16.14	43.50	39.02	14.68	1.40	27.74	Peak
3	256.9800	26.13	-19.87	46.00	32.93	18.16	2.25	27.21	Peak
4	450.9800	31.18	-14.82	46.00	33.81	22.28	3.25	28.16	Peak
5	516.9400	31.36	-14.64	46.00	33.00	23.32	3.46	28.42	Peak
6	854.5000	33.88	-12.12	46.00	30.40	26.49	4.76	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.

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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

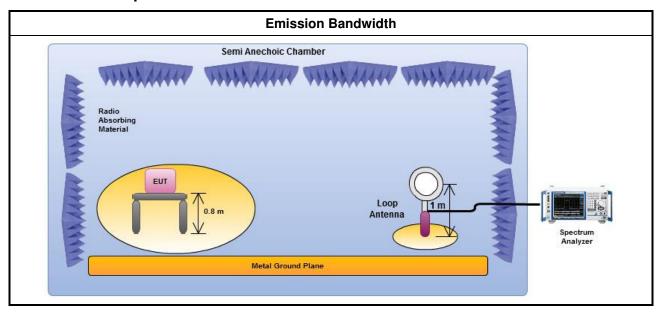
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method

- For the emission bandwidth refer ANSI C63.10, clause 6.9.2 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

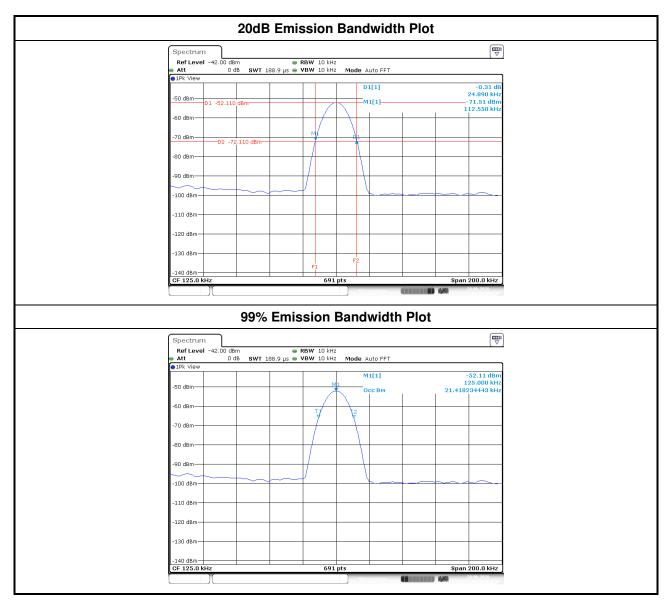


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3.3.5 Test Result of Emission Bandwidth

Occupied Channel Bandwidth Result								
Modulation Mode Frequency (kHz) 20dB Bandwidth (kHz) 99% Bandwidth (kHz)								
OOK	0.1250	24.89	21.41					
Lir	nit	N/A	N/A					
Res	sult	Complied						



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3.3.6 Test Result of Field Strength of Fundamental Emissions

	Field Strength of Fundamental Emissions Result									
Modulation Mode	Frequency (kHz)	Fundamental (dBuV/m)@3m	Polarization	Margin (dB)	Limit (dBuV/m)@3m					
OOK	125	66	Н	39.67	105.67					
Res	sult		Com	plied						

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Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal).

Note 2: The Limit is based on measurement employing an average detector.

Note 3: The fundamental result is measured by peak detector.

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4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Next Calibration Date
EMC Receiver	KEYSIGHT	N9038A	MY54130031	20Hz ~ 8.4GHz	Apr. 14, 2016	Apr. 13, 2017
LISN	SCHWARZBECK MESS-ELEKTR ONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 26, 2016	Jan. 25, 2017
RF Cable-CON	HUBER+SUHN ER	RG213/U	07611832020 001	9kHz ~ 30MHz	Oct. 30, 2015	Oct. 29, 2016
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	NCR	NCR

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Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Next Calibration Date
Spectrum Analyzer	R&S	FSV 40	101013	9KHz~40GHz	Feb 16, 2016	Feb 15, 2017

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Next Calibration Date
Spectrum Analyzer	R&S	FSP 40	100593	9KHz~40GHz	Oct. 19, 2015	Oct. 18, 2016
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	Jun. 24, 2016	Jun. 23, 2017
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	Jul. 24, 2015	Jul. 23, 2016
Bilog Antenna	SCHAFFNER	CBL 6112B	2723	30MHz ~ 1GHz	Oct. 05, 2015	Oct. 04, 2016
Loop Antenna	TESTQ	HLA6120	24155	9 kHz~30 MHz	Feb.02, 2015	Feb.01, 2017

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