FCC Test Report

FCC ID : VQK-F01F

Equipment: Mobile Phone

Model No. : F-01F

Brand Name : FUJITSU

Applicant : FUJITSU LIMITED

Address : 1-1, Kamikodanaka 4-chome, Nakahara-ku,

Kawasaki 211-8588, Japan

Standard : 47 CFR FCC Part 15.225

Received Date : Jul. 01, 2013

Tested Date : Aug. 09 ~ Aug. 15, 2013

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

Gary Chang / Manager

Iac-MRA



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Report No.: FR370110 Report Version: Rev. 01 Tel: 886-3-271-8666



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Fax: 886-3-318-0155

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Release Record

Report No.	Version	Description	Issued Date
FR370110	Rev. 01	Initial issue	Sep. 03, 2013

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Summary of Test Results

FCC Rules Test Items		Measured	Result
15.207	Conducted Emissions	N/A	N/A
15.225(a)~(c)	Field strength of fundamental emissions and spectrum mask	[dBuV/m at 3m]: 13.56 54.48 (Margin -69.52dB)	Pass
15.225(d)	Field strength of any emissions appearing outside of the 13.110-14.010 MHz band	Meet the requirement of limit	Pass
15.225(e)	Frequency tolerance	Meet the requirement of limit	Pass
15.215 (c)	20dB bandwidth	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

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1 General Description

1.1 Information

1.1.1 Product Details

Product Name	Mobile Phone
Brand Name	FUJITSU
Model Name	F-01F
IMEI Code	357611050021511
H/W Version	V2.1.0
S/W Version	R19.8e

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	Channel Number		
13.553 – 13.567	NFC-ASK	13.56	1		
13.553 – 13.567	RFID-ASK	13.56	1		

1.1.3 Antenna Details

Ant. No.	Туре	Gain (dBi)	Connector	Remark
1	Loop antenna	-		

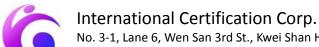
1.1.4 EUT Operational Condition

Supply Voltage		⊠ DC	
Type of DC Source	☐ Internal DC supply		Battery
Test Voltage			
Test Climatic	⊠ Tnom (20°C)		☐ Tmin (-20°C)

1.1.5 Accessories

Accessories					
No.	Equipment	Description			
		Brand Name: Fujitsu limited			
2	Battery	Model Name: CA54310-0052			
		Power Rating: O/P: 3.75Vdc, 3200mA, 12Wh			

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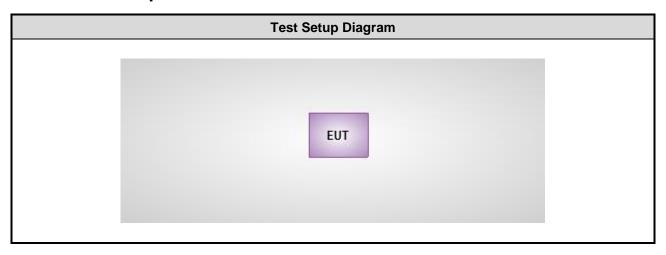


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1.1.6 Test Tool and Power Setting

Test tool	NFC Rw Test				
Modulation Mode	NFC RFID				
Setting	Default	Default			

1.2 Test Setup Chart



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The Equipment List 1.3

Test Item	Radiated Emission above 1GHz 966 chamber1 / (03CH01-WS)					
Test Site						
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until	
3m semi-anechoic chamber	CHAMPRO	SAC-03	03CH01-WS	Jan. 04, 2013	Jan. 03, 2014	
Spectrum Analyzer	R&S	FSV40	101498	Jan. 24, 2013	Jan. 23, 2014	
Receiver	R&S	ESR3	101658	Jan. 28, 2013	Jan. 27, 2014	
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jan. 11, 2013	Jan. 10, 2014	
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 18, 2013	Feb. 17, 2014	
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014	
Amplifier	Burgeon	BPA-530	100219	Nov. 28, 2012	Nov. 27, 2013	
Amplifier	Agilent	83017A	MY39501308	Dec. 18, 2012	Dec. 17, 2013	
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 25, 2012	Dec. 24, 2013	
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 25, 2012	Dec. 24, 2013	
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 25, 2012	Dec. 24, 2013	
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-001	Dec. 25, 2012	Dec. 24, 2013	
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-002	Dec. 25, 2012	Dec. 24, 2013	
control	EM Electronics	EM1000	60612	N/A	N/A	

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014	
Amplifier	MITEQ	AMF-6F-260400	9121372	Apr. 19, 2013	Apr. 18, 2015	
Note: Calibration Interval of instruments listed above is two year.						

Test Item	RF Conducted							
Test Site	(TH01-WS)	(TH01-WS)						
Instrument	Manufacturer	Manufacturer Model No. Serial No. Calibration Date Calibration Until						
Spectrum Analyzer	R&S	FSV 40	101063	Feb. 18, 2013	Feb. 17, 2014			
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 29, 2012	Nov. 28, 2013			
Power Meter	Anritsu	ML2495A	1241002	Oct. 15, 2012	Oct. 14, 2013			
Power Sensor	Anritsu	MA2411B	1027366	Oct. 24, 2012	Oct. 23, 2013			
Signal Generator	R&S	SMB100A	175727	Jan. 14, 2013	Jan. 13, 2014			
Note: Calibration Inter	val of instruments listed	d above is one year.						

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1.4 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.225 ANSI C63.10-2009

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

1.5 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)

Measurement Uncertainty				
Parameters	Uncertainty			
Bandwidth	±35.286 Hz			
Conducted power	±0.536 dB			
Frequency error	±35.286 Hz			
Temperature	±0.3 °C			
Conducted emission	±2.946 dB			
AC conducted emission	±2.43 dB			
Radiated emission	±2.49 dB			

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2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	23°C / 65%	Haru Yang
RF Conducted	TH01-WS	22°C / 63%	Felix Sung

FCC site registration No.: 657002IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)
Field strength of fundamental emissions and spectrum mask	NFC RFID	13.56
Field strength of any emissions appearing outside of the 13.110-14.010 MHz band	NFC RFID	13.56
Frequency tolerance	NFC RFID	13.56
20dB bandwidth	NFC RFID	13.56

NOTE:

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^{1.} The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.

3 Transmitter Test Results

3.1 20dB and Occupied Bandwidth

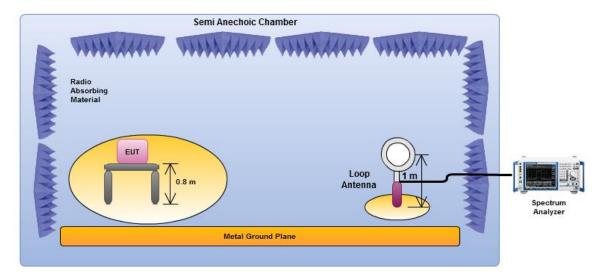
3.1.1 Limit of 20dB Bandwidth

The upper and lower frequency of the 20dB bandwidth shall within 13.553~13.567 MHz

3.1.2 Test Procedures

- 1. Set resolution bandwidth (RBW) = 1 kHz, Video bandwidth = 3 kHz.
- 2. Detector = Peak, Trace mode = max hold.
- 3. Sweep = auto couple, Allow the trace to stabilize.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20dB relative to the maximum level measured in the fundamental emission.

3.1.3 Test Setup

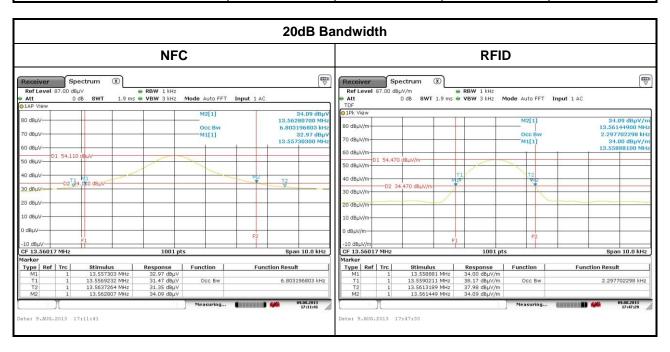


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3.1.4 Test Result of 20dB and Occupied Bandwidth

Modulation Mode	Freq. (MHz)	20dB Bandwidth (kHz)	F _L at 20dB BW (MHz)	F _H at 20dBBW (MHz)	99% Bandwidth (kHz)
NFC	13.56	5.5	13.5573	13.5628	6.8032
RFID	13.56	2.5	13.5589	13.5614	2.2977
Lir	mit	N/A	13.553	13.567	N/A



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3.2 Field Strength of Fundamental Emissions and Spectrum Mask

3.2.1 Field Strength of Fundamental Emissions and Spectrum Mask Limit

Field Strength of Fundamental Emissions					
Emissions	Emissions (uV/m)@30m (dBuV/m)@30m (dBuV/m)@10m (dBuV/m)@3m (dBuV/m)@1m				
Fundamental	15848	84.0	103.1	124.0	143.1
Quasi peak measurement of the fundamental.					

	Spectrum Mask				
Freq. of Emission (MHz)	(uV/m)@30m	(dBuV/m)@30m	(dBuV/m)@10m	(dBuV/m)@3m	(dBuV/m)@1m
1.705~13.110	30	29.5	48.6	69.5	88.6
13.110~13.410	106	40.5	59.6	80.5	99.6
13.410~13.553	334	50.5	69.6	90.5	109.6
13.553~13.567	15848	84.0	103.1	124.0	143.1
13.567~13.710	334	50.5	69.6	90.5	109.6
13.710~14.010	106	40.5	59.6	80.5	99.6
14.010~30.000	30	29.5	48.6	69.5	88.6

3.2.2 Test Procedures

- Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
- 2. Measurement is made with the antenna positioned in both the open and close planes of polarization. . Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, and the antenna rotated to repeat the measurements for both the open and close antenna polarizations.

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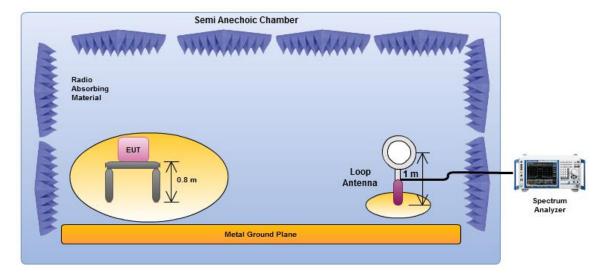


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3.2.3 Test Setup

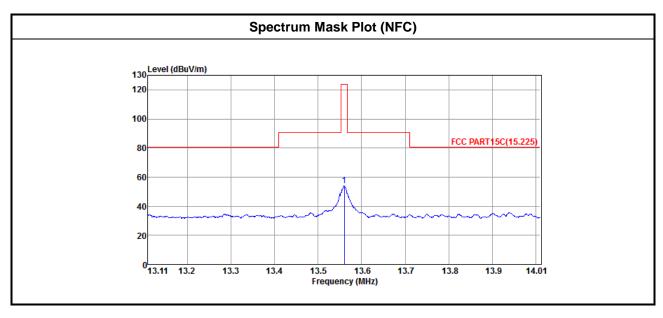


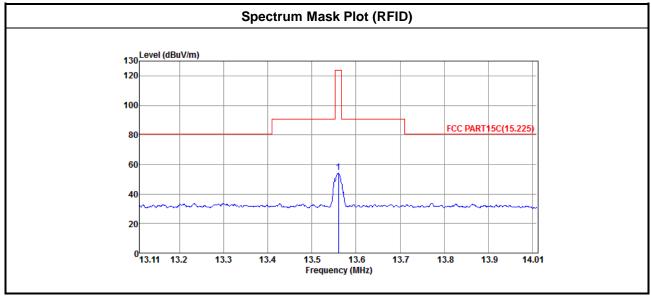
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3.2.4 Test Result of Field Strength of Fundamental Emissions and Spectrum Mask

Field Strength of Fundamental Emissions Result					
Modulation ModeFrequency (MHz)Fundamental (dBuV/m)@3mPolarizationMargin (dB)Limit (dBuV/m)@3m					Limit (dBuV/m)@3m
NFC	13.56	54.12	Open	-69.88	124.0
RFID	13.56	54.48	Open	-69.52	124.0





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3.3 Unwanted Emissions into Restricted Frequency Bands

3.3.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band 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		

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.3.2 Test Procedures

- 4. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
- 5. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 6. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

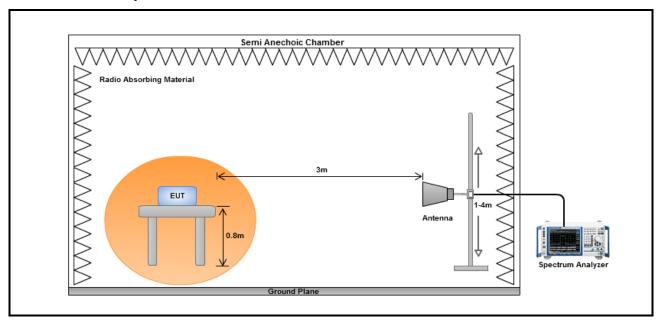
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.

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3.3.3 Test Setup

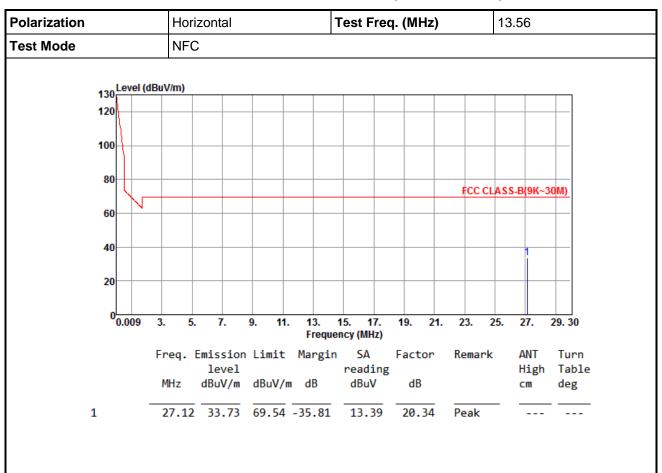


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3.3.4 Transmitter Radiated Unwanted Emissions (Below 30GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor (dB)

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

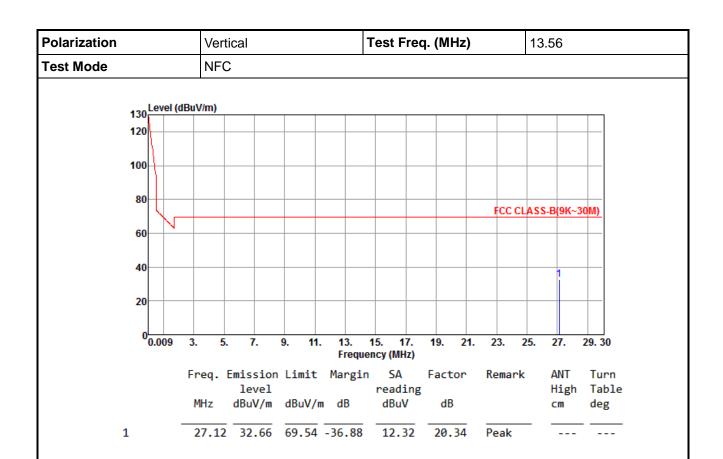
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor (dB) Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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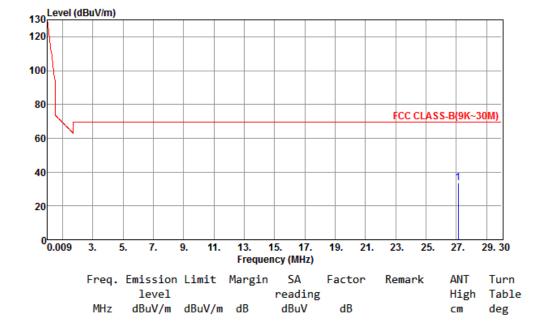


1

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PolarizationHorizontalTest Freq. (MHz)13.56Test ModeRFID



13.46

20.34

Peak

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor (dB) Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

27.12 33.80 69.54 -35.74

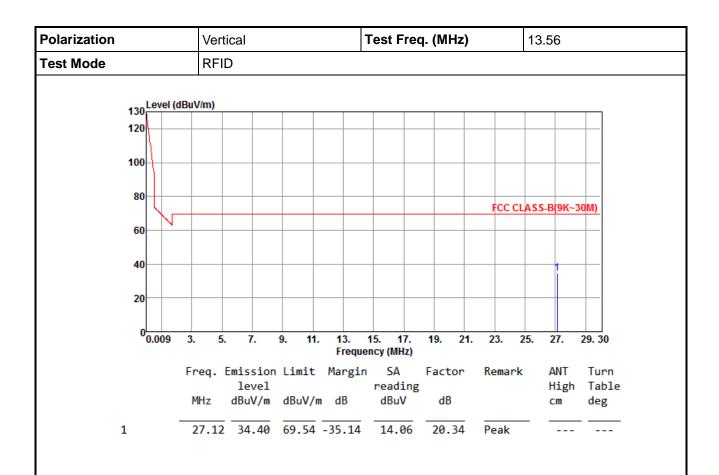
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor (dB)

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

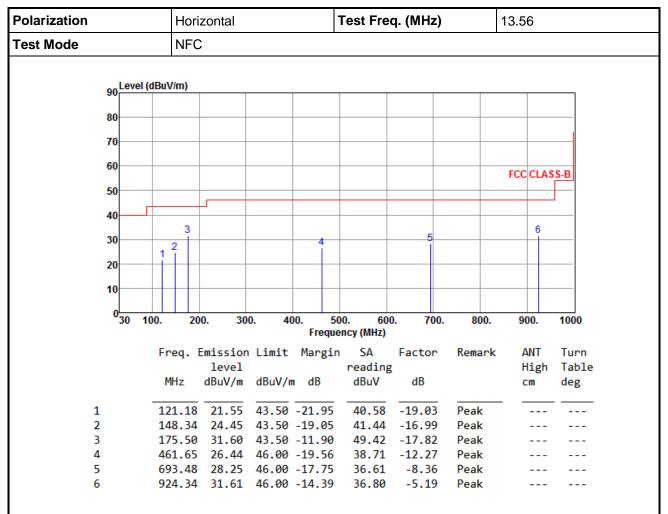
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3.3.5 Transmitter Radiated Unwanted Emissions (Above 30MHz)



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

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

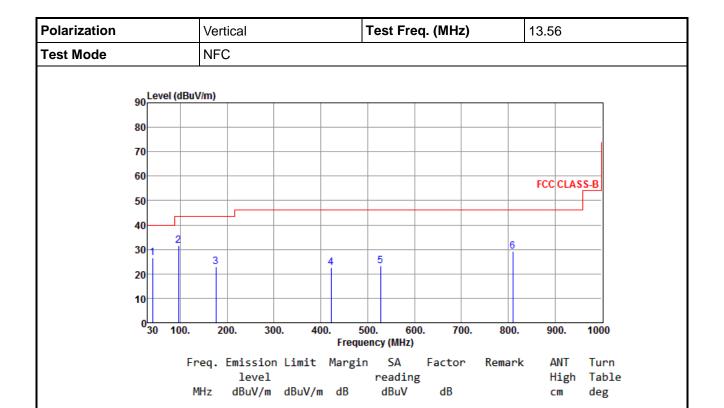
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43.35

53.77

40.83

35.91

-16.93

-22.16

-17.82

-6.64

35.86 -13.13

34.34 -11.09

Peak

Peak

Peak

Peak

Peak

Peak

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

26.42 40.00 -13.58

31.61 43.50 -11.89

23.01 43.50 -20.49

22.73 46.00 -23.27

527.61 23.25 46.00 -22.75

809.88 29.27 46.00 -16.73

40.67

95.96

175.50

421.88

1

2

3

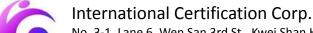
4

5

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

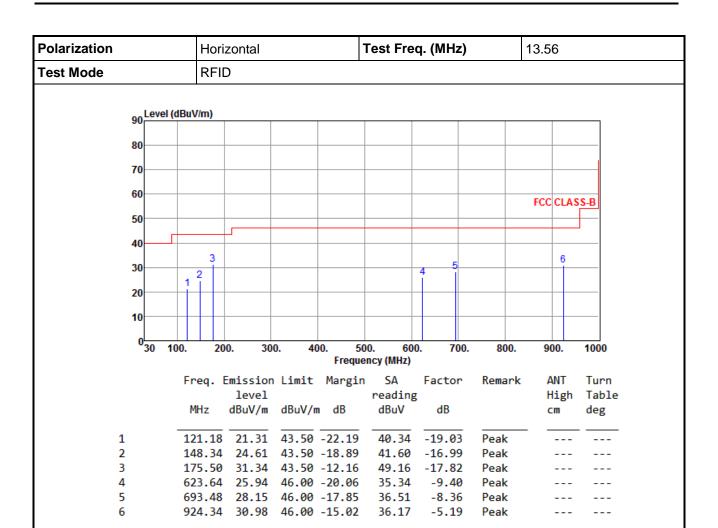
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Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.



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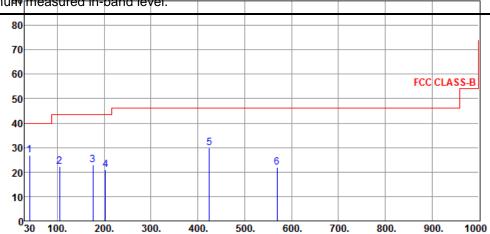
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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

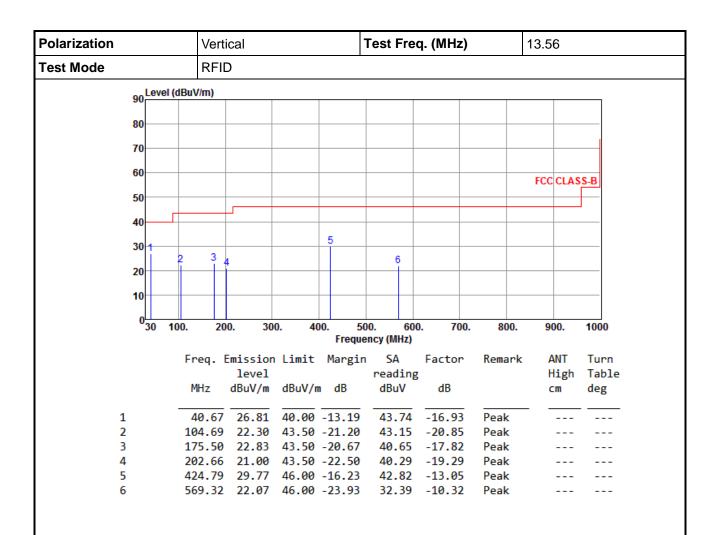




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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 3: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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Note 2: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

3.4 Frequency Stability

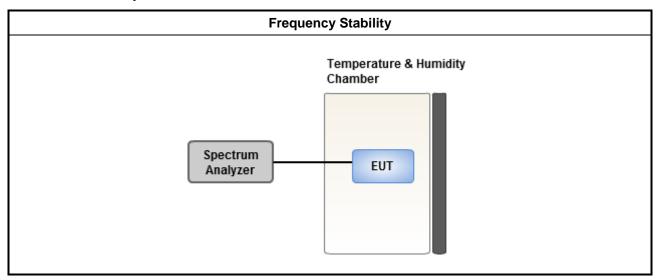
3.4.1 Frequency Stability Limit

Carrier frequency stability shall be maintained to ±0.01% (±100 ppm).

3.4.2 Test Procedures

	Test Method					
\boxtimes	Refer as ANSI C63.10, clause 6.8 for frequency stability tests					
	□ Frequency stability with respect to ambient temperature					
	☐ Frequency stability when varying supply voltage					
	For conducted measurement.					
	For radiated measurement. The equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted power level.					

3.4.3 Test Setup



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3.4.4 Test Result of Frequency Stability

	Frequency Stability Result (NFC)				
Condition	Ch. Freq.	Frequency S	Stability (ppm)		
	(MHz)	Test Frequency (MHz)	Frequency Stability (ppm)		
T _{20°C} Vmax	13.56	13.56006	4.42		
T _{20°C} Vmin	13.56	13.56008	5.90		
T _{55°C} Vnom	13.56	13.56009	6.64		
T _{50°C} Vnom	13.56	13.56006	4.42		
T _{40°C} Vnom	13.56	13.56008	5.90		
T _{30°C} Vnom	13.56	13.56006	4.42		
T _{20°C} Vnom	13.56	13.56007	5.16		
T _{10°C} Vnom	13.56	13.56006	4.42		
T _{0°C} Vnom	13.56	13.56005	3.69		
T _{-10°C} Vnom	13.56	13.56003	2.21		
T _{-20°C} Vnom	13.56	13.56007	5.16		
Limit (p	opm)	1	100		

Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom]. The nominal voltage refer test report clause 1.3 for EUT operational condition.

Note 2: Measure maximum deviation frequency at operating frequency at startup and two, five, and ten min.

	Frequency Stability Result (RFID)				
Condition	Ch. Freq.	Frequency S	Stability (ppm)		
	(MHz)	Test Frequency (MHz)	Frequency Stability (ppm)		
T _{20°C} Vmax	13.56	13.56015	11.06		
T _{20°C} Vmin	13.56	13.56016	11.80		
T _{55°C} Vnom	13.56	13.56022	16.22		
T _{50°C} Vnom	13.56	13.56018	13.27		
T _{40°C} Vnom	13.56	13.56020	14.75		
T _{30°C} Vnom	13.56	13.56017	12.54		
T _{20°C} Vnom	13.56	13.56017	12.54		
T _{10°C} Vnom	13.56	13.56018	13.27		
T _{0°C} Vnom	13.56	13.56014	10.32		
T _{-10°C} Vnom	13.56	13.56017	12.54		
T _{-20°C} Vnom	13.56	13.56016	11.80		
Limit (ppm)		,	100		

Note 1: Measure at 85 % [Vmin] and 115 % [Vmax] of the nominal voltage [Vnom]. The nominal voltage refer test report clause 1.3 for EUT operational condition.

Note 2: Measure maximum deviation frequency at operating frequency at startup and two, five, and ten min.

==END==

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