



TEST REPORT

No. I20N01974-NFC

for

Spectralink Corporation

Mobile Phone

Model Name: VC9240

with

Hardware Version: DVT1

Software Version: V138

FCC ID: IYG9240

IC: 2128B-9240

Issued Date: 2020-09-07

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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1. Summary of Test Report

1.1. Test Items

Description Mobile Phone

Model Name VC9240

Applicant's name Spectralink Corporation

Manufacturer's Name Spectralink Corporation

1.2. Test Standards

FCC Part15-2019; ANSI C63.10-2013; ANSI C63.4-2014; RSS-210 Issue 9; RSS-Gen Issue 5 A1

1.3. Test Result

Pass

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date: 2020-07-28
Testing End Date: 2020-09-04

1.6. Signature

Lin Zechuang

(Prepared this test report)

Tang Weisheng

(Reviewed this test report)

Zhang Bojun

(Approved this test report)





2. Client Information

2.1. Applicant Information

Company Name: Spectralink Corporation

Address/Post: 2560 55th Street, Boulder CO 80301, USA

Contact: Paul Hampton

Email: Paul.Hampton@spectralink.com

Tel.: +1303-441-7593

Fax: /

2.2. Manufacturer Information

Company Name: Spectralink Corporation

Address/Post: 2560 55th Street, Boulder CO 80301, USA

Contact: Paul Hampton

Email: Paul.Hampton@spectralink.com

Tel.: +1303-441-7593

Fax: /





3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description Mobile Phone
Model Name VC9240
Brand Name Spectralink
Frequency 13.56MHz

Antenna type Integrated antenna

Extreme Temperature -20°C/+55°C

Operation Voltage 3.6VDC to 4.4VDC (nominal: 3.85VDC)

Power source Battery
FCC ID IYG9240
IC 2128B-9240

Condition of EUT as received No abnormality in appearance

Note1: According to the customer's description, VC9240 is a variant of VC9253. The differences between them are as follows.

Different rear cover and antenna frame. The VC9253 with scanner lens while the VC9240 without scanner lens, and their software is different because the VC9240 without driver code of scanner. All items have been retested. And the initial model report number is I20N01960-NFC.

Note2: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Receive Date
UT04aa	velc02bdjd004e	DVT1	V138	2020-07-21
UT01aa	velc02bdcjd00aw	DVT1	V138	2020-07-22

^{*}EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	Power Supply	/
AE2	NFC Card	/

^{*}AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment under Test (EUT) is a model of Mobile Phone with integrated antenna and battery.

It consists of normal options: Lithium Battery, Charger and USB Cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.





3.5. EUT Set-ups

EUT Set-up No.	Combination of EUT and AE	Remarks
Set. NFC01	EUT1+AE1+AE2	NFC RF, TX test
Set. NFC02	EUT1+AE1	NFC RF, RX test

CE_test.apk is installed in the EUT which helps to control the NFC signal transmitting.

The Transmit State of NFC: the NFC function is on. The EUT will transmit the NFC data and command continuously during the test.

The Transmit State without modulation: The EUT will transmit the CW signal at the operating frequency.





4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
CFR 47 Part 15	FCC CFR 47,Part 15,Subpart C	2019
ANSI C63.10	American National Standard of Procedures for Compliance	2013
	Testing of Unlicensed Wireless Devices	
ANSI C63.4	American National Standard for Methods of Measurement	2014
	of Radio-Noise Emissions from Low-Voltage Electrical and	
	Electronic Equipment in the Range of 9 kHz to 40 GHz.	
RSS-210	License-exempt Radio Apparatus (All Frequency Bands):	Issue 9
	Category I Equipment Annex 2 - Devices Operating in	2016
	Frequency Bands for Any Application	
RSS-Gen	Spectrum Management and Telecommunications Radio	Issue 5
	Standards Specification	March,2019
	General Requirements for Compliance of Radio Apparatus	Amendment 1





5. Test Results

5.1. <u>Testing Environment</u>

Normal Temperature: 15~35°C Relative Humidity: 20~75%

5.2. Test Results

No	Test Cases	Clause in Regulation	Section in This Report	Verdict
1	Electric Field Strength of	CFR 47 § 15.225(a)		Р
'	Fundamental Emissions	RSS-210 Issue9 A2.6		P
	Floatric Field Strongth of	CFR 47 § 15.225(b)	A.1	
2	Electric Field Strength of	CFR 47 § 15.225(c)		Р
	Outside the Allocated Bands	RSS-210 Issue9 A2.6		
	Electric Field Radiated	CFR 47 § 15.209	A.2	Р
3	Emissions	CFR 47 § 15.225(d)	A.3	Р
		RSS-210 Issue9 A2.6	A.S	F
4	Fraguency Toloropeo	CFR 47 § 15.225(e)	A.4	Р
4	Frequency Folerance	requency Tolerance RSS-210 Issue9 A2.6	A.4	F
5	20dB Bandwidth	CFR 47 § 15.215(c)	A.5	Р
6	Conducted Emissions	CFR 47 § 15.207	A 6	P
6		RSS-Gen section 6.13	A.6	P
7	Occupied Bandwidth	RSS-Gen section 6.7	A.7	Р

The measurement is carried out according to ANSI C63.10 and ANSI C63.4.

See ANNEX A for details.

5.3. Statements

The test cases listed in Section 5.2 of this report for the EUT specified in Section 3 were performed by SAICT according to the reference documents in Section 4.

The EUT meets all applicable requirements of the regulations and standards in Section 4.2.

This report only deals with the NFC function among the features described in section 3.





6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2021-01-15	1 year
2	DC Power Supply	ZUP60-14	6MY-847Z13 -0001	TDK-Lambda	2021-02-26	1 year
3	Test Receiver	ESCI	100701	Rohde & Schwarz	2021-08-09	1 year
4	LISN	ENV216	102067	Rohde & Schwarz	2021-07-16	1 year

Climate chamber

No.	Equipment	Model	Serial	Manufacturer	Calibration	Calibration
NO.	Equipment	Iviodei	Number		Due date	Period
1	Climate chamber	SU-242	93008165	ESPEC	2021-03-15	1 year

Radiated emission test system

No.	Faurinment	Model	Serial	Manufacturer	Calibration	Calibration
NO.	Equipment	Wodei	Number	Wanuracturer	Due date	Period
1	Test Receiver	ESR7	101676	Rohde & Schwarz	2020-11-27	1 year
2	BiLog Antenna	3142E	00224831	ETS-Lindgren	2021-05-17	3 years
3	Loop Antenna	HLA6120	35779	TESEQ	2022-04-25	3 years
4	Chamber	FACT3-2.0	1285	ETS-Lindgren	2021-07-19	2 years
5	Software	EMC32	V10.01.00	R&S	/	/





7. Laboratory Environment

Semi-anechoic chambe

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ±4 dB, 3 m distance, from 30 to 1000 MHz

Shielded room

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-1000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	<4 Ω

Fully-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	<4 Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz





ANNEX A: MEASUREMENT RESULTS

A.1. Electric Field Strength of Fundamental and Outside the Allocated bands

A.1.1. Reference

See CFR 47 § 15.225 See RSS-210 Issue9 A2.6

A.1.2. Measurement Methods

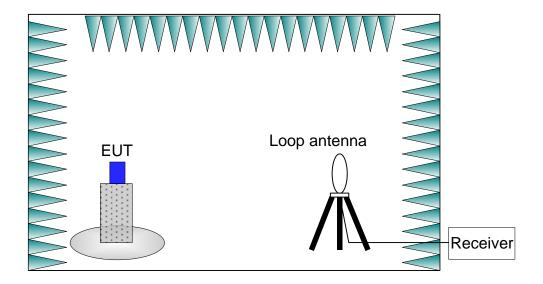
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW		
12.56-14.56	10/30 kHz		

The E-field measured at 3m is calculated as:

E-field $(dB\mu V/m) = Rx (dB\mu V) + Cable Loss (dB) + AF@3m (dB/m)$



A.1.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of $15 \sim 25$ °C.





A.1.4. Limits

Frequency Range (MHz)	E-field Strength Limit @ 30	E-field Strength Limit @ 3 m
Frequency Range (MHZ)	m (μV/m)	(dBµV/m)
13.560 ± 0.007	+15,848	124
13.410 to 13.553	+334	90
13.567 to 13.710	+334	90
13.110 to 13.410	+106	81
13.710 to 14.010	+106	01

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation (dB) = 40 * log₁₀(Measurement Distance / Specification Distance)

A.1.5. Measurement Results

Measurement results of normal conditions see Figure A-1 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

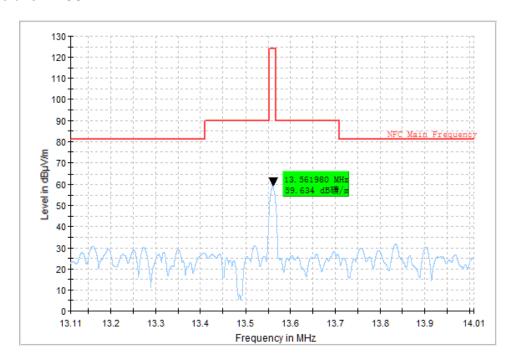


Figure A-1 Electric Field Strength

A.1.6. Measurement Uncertainty

Measurement uncertainty: U = 1.70 dB, k=2.





A.2. Electric Field Radiated Emissions (<30MHz)

A.2.1. Reference

See CFR 47 § 15.209 See CFR 47 § 15.225(d) See RSS-210 Issue9 A2.6

A.2.2. Measurement Methods

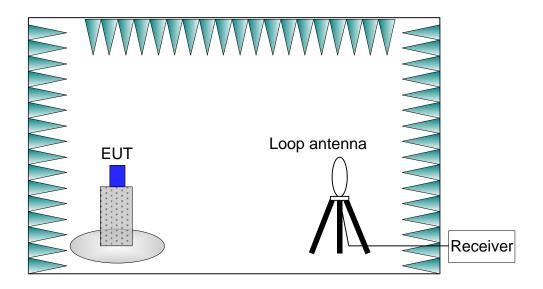
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW	
0.009-0.15	100/300 Hz	
0.15-30	10/30 kHz	

The E-field measured at 3m is calculated as:

E-field $(dB\mu V/m) = Rx (dB\mu V) + Cable Loss (dB) + AF@3m (dB/m)$



A.2.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.





During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of $15 \sim 25$ °C.

A.2.4. Limits

Fraguency Banga (MHz)	E-field Strength Limit @	E-field Strength Limit @ 3m
Frequency Range (MHz)	30m (mV/m)	(dBµV/m)
0.009-0.490	2400/F(kHz)	129-94
0.490-1.705	24000/F(kHz)	74-63
1.705-30	30	70

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation (dB) = 40 * log₁₀(Measurement Distance / Specification Distance)

A.2.5. Measurement Results

Measurement results of normal conditions see Figure A-2 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

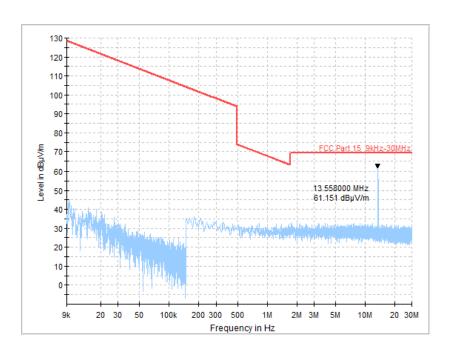


Figure A-2 Transmit State (9k-30M)

A.2.6. Measurement Uncertainty

Measurement uncertainty: U = 1.70 dB, k=2.





A.3. Electric Field Radiated Emissions (≥30MHz)

A.3.1. Reference

See CFR 47 § 15.209 See CFR 47 § 15.225(d)

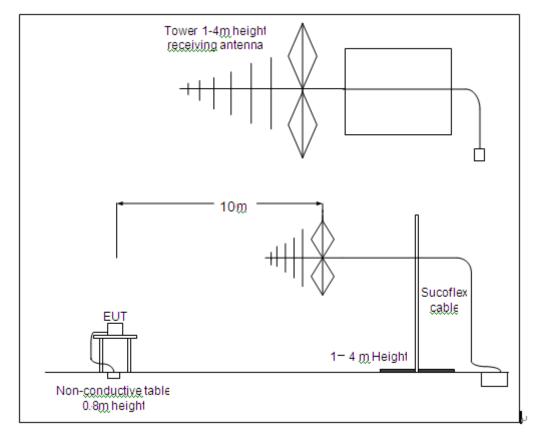
See RSS-210 Issue9 A2.6

A.3.2. Measurement Methods

The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 10m from the receiving antenna. The receiving antennas connected to a measurement receiver comply with the standard requirements. In order to search for maximum field strength emitted from the EUT, the receiving antenna can be moved between the height of 1.0 m to 4.0 m. Detected E-field was maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna positions for both vertical and horizontal antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW		
30-1000	120kHz		







A.3.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

EUT had been connected to a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of $15 \sim 25^{\circ}$ C.

A.3.4. Limits

Frequency	iency E-field Strength Limit E-field Strength Limit		E-field Strength Limit	
Range (MHz)	@ 3m (mV/m)	@ 3m (dBµV/m)	@ 10m (dBμV/m)	
30-88	100	40	30	
88-216	150	43.5	33.5	
216-960	200	46	36	
960-1000	500	54	44	

A.3.5. Measurement Results

Measurement results of normal conditions see Figure A-3 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

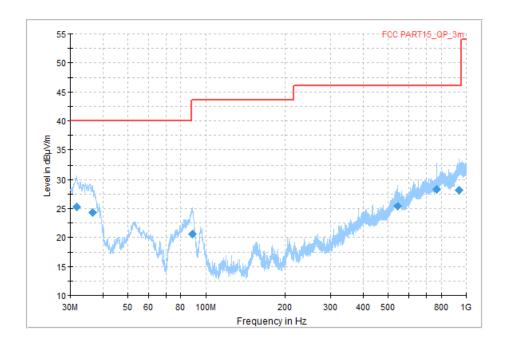


Figure A-3 Transmit State (30M-1G)





Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
31.697500	25.34	40.00	14.66	V	-14
36.486875	24.32	40.00	15.68	V	-17
88.381875	20.59	43.52	22.93	V	-21
541.917500	25.37	46.02	20.65	Н	-4
767.988125	28.34	46.02	17.68	V	-2
939.920625	28.10	46.02	17.92	V	1

A.3.6. Measurement Uncertainty

Measurement uncertainty: U = 4.90 dB, k=2



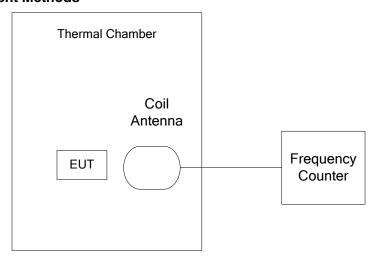


A.4. Frequency Tolerance

A.4.1. Reference

See CFR 47 § 15.225(e) See RSS-210 Issue9 A2.6

A.4.2. Measurement Methods



The transmitter output signal was picked up by coil antenna connected to the frequency counter. The center frequency was measured with 30Hz RBW and 1kHz span.

During the test, the EUT was placed in a thermal chamber until thermal balance and lasting appropriate time.

A.4.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of without modulation (See 3.5). EUT had been not connected to a travel adapter.

Operation Temperature: T min, T nom, and T max with V nom.

Operation Voltage: V min and V max with T nom.

A.4.4. Test Layouts

See A.4.2.

A.4.5. Limits

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

A.4.6. Measurement Results

Measurement results see Table A-1 for different test conditions.

Conclusions: PASS.





Table A-1: Frequency Stability VS Temperature and Voltage

Tomporeture	Voltage	Frequency Error (MHz)			
remperature	Temperature Voltage		2 Min Later	5 Min Later	10 Min Later
T min	V nom	13.559714	13.559713	13.559716	13.559712
T max	V nom	13.559712	13.559719	13.559717	13.559715
T nom	V nom	13.559711	13.559712	13.559711	13.559713

Tomporatura	Voltago	Frequency Error (%)			
Temperature	Voltage	Startup	2 Min Later	5 Min Later	10 Min Later
T min	V nom	0.002	0.002	0.002	0.002
T max	V nom	0.002	0.002	0.002	0.002
T nom	V nom	0.002	0.002	0.002	0.002

A.4.7. Measurement Uncertainty

Measurement uncertainty: U = 77 Hz, k=2





A.5. 20dB Bandwidth

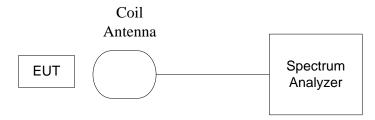
A.5.1. Reference

See CFR 47 § 15.215(c)

A.5.2. Measurement Methods

The transmitter output signal was picked up by coil antenna to the spectrum analyzer.

The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer. The bandwidth of the center frequency was measured with 100Hz RBW, 300Hz VBW and 10kHz span.



A.5.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC and without modulation (See 3.5).

EUT had been not connected to a travel adapter.

During the measurements, the ambient temperature is in the range of $15 \sim 25^{\circ}$ C.

A.5.4. Test Layouts

See A.5.2.

A.5.5. Limits

The 20dB bandwidth shall be less than 80% of the permitted frequency band. For 13.56 MHz NFC, the permitted frequency band is 10 kHz, so the limit is 11.2 kHz.

A.5.6. Measurement Results

Measurement results see Figure A-4.

Conclusions: PASS.



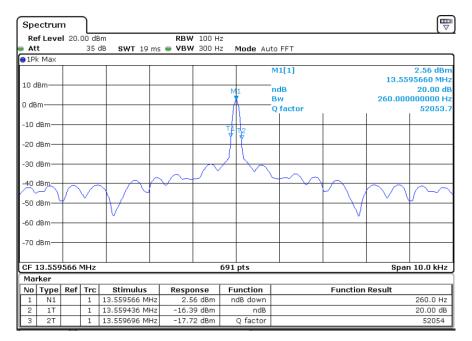


Figure A-4 20dB Bandwidth

A.5.7. Measurement Uncertainty

Measurement uncertainty: *U* =77 Hz, *k*=2





A.6. Conducted emission

A.6.1. Reference

See CFR 47 § 15.207 See RSS-Gen section 6.13

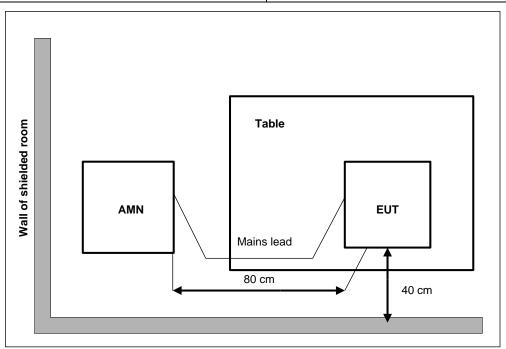
A.6.2. Measurement Methods

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW	
0.15-30	9kHz	



A.6.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature is in the range of $15 \sim 25^{\circ}$ C.





A.6.4. Limits

Frequency range(MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	
0.15 to 0.5	66 to 56	56 to 46	
0.5 to 5	56	46	
5 to 30	60	50	

A.6.5. Measurement Results

Measurement results see Figure A-5, Figure A-6.

Conclusions: PASS.

Note: The measurement result at 13.56MHz is the fundamental emission of NFC signal.



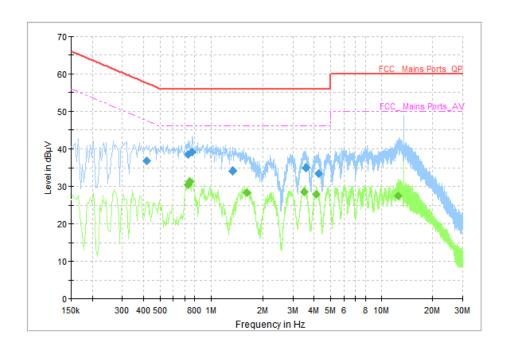


Figure A-5 Test result (120V)

Final Result 1

i iiiai itooait i						
Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.418000	36.62	57.49	20.87	N	ON	10
0.730000	38.40	56.00	17.60	L1	ON	10
0.774000	39.04	56.00	16.96	L1	ON	10
1.342000	34.22	56.00	21.78	L1	ON	10
3.566000	35.01	56.00	20.99	L1	ON	10
4.250000	33.60	56.00	22.40	L1	ON	10

Final Result 2

Frequency	Average	Limit	Margin	Line	Filter	Corr.
(MHz)	(dBµV)	(dBµV)	(dB)			(dB)
0.730000	30.60	46.00	15.40	L1	ON	10
0.746000	31.33	46.00	14.67	L1	ON	10
1.610000	28.29	46.00	17.71	L1	ON	10
3.498000	28.58	46.00	17.42	L1	ON	10
4.130000	28.00	46.00	18.00	L1	ON	10
12.574000	27.60	50.00	22.40	L1	ON	10

A.6.6. Measurement Uncertainty

Measurement uncertainty: U = 3.0 dB, k=2





A.7. Occupied Bandwidth

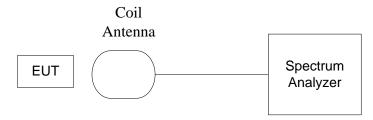
A.7.1. Reference

See RSS-Gen section 6.7

A.7.2. Measurement Methods

The transmitter output signal was picked up by coil antenna to the spectrum analyzer.

The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer. The bandwidth of the center frequency was measured with 100Hz RBW, 300Hz VBW and 10kHz span.



A.7.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC and without modulation (See 3.5).

EUT had been not connected to a travel adapter.

During the measurements, the ambient temperature is in the range of $15 \sim 25^{\circ}$ C.

A.7.4. Test Layouts

See A.7.2.

A.7.5. Limits

When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured.

A.7.6. Measurement Results

Measurement results see Figure A-7.

Conclusions: PASS



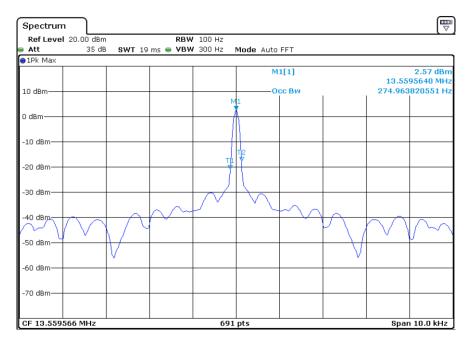


Figure A-6 Occupied Bandwidth

A.7.7. Measurement Uncertainty

Measurement uncertainty: *U* =77 Hz, k=2

END OF REPORT