

FCC RF Test Report

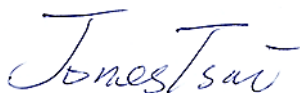
APPLICANT : Partner Tech Corporation
EQUIPMENT : Handheld POS Terminal
BRAND NAME : Partner
MODEL NAME : OT-310
FCC ID : NDPOT-310
STANDARD : FCC Part 15 Subpart C §15.225
CLASSIFICATION : (DXX) Low Power Communication Device Transmitter

The testing was received on Mar. 21, 2014 and testing was completed on Jun. 13, 2014. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR432112D	Rev. 01	Initial issue of report	Jun. 20, 2014



1. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	FCC Rule	Description of Test	Result	Under Limit
3.1	15.207	AC Power Line Conducted Emissions	Complies	13.45 dB at 25.860MHz
3.2	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Complies	65.93 dB at 13.560 MHz
3.3	2.1049	20dB Spectrum Bandwidth	Complies	-
3.4	15.225(d) 15.209	Radiated Emissions	Complies	9.91 dB at 53.280 MHz for Quasi-Peak
3.5	15.225(e)	Frequency Stability	Complies	-
3.6	15.203	Antenna Requirements	Complies	-

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	$\pm 2.26\text{dB}$	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	$\pm 2.54\text{dB}$	Confidence levels of 95%



2. GENERAL INFORMATION

2.1 Applicant

Partner Tech Corporation

10FL, 233-2, Baoqiao Road, Xindian, New Taipei City, Taiwan

2.2 Manufacturer

Partner Tech Corporation

10FL, 233-2, Baoqiao Road, Xindian, New Taipei City, Taiwan

2.3 Product Details

Items	Description
Tx/Rx Frequency Range	13.553 ~ 13.567MHz
Channel Number	1
20dBW	2.660 KHz
99%OBW	2.280 KHz
Antenna Type	Coil Antenna
Type of Modulation	ASK

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT that only different for scanner module but the others are the same, due the difference that is not affect any RF performance, we only evaluate sample #1 for full test.

2.4 Modification of EUT

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

2.5 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.		
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958		
Test Site No.	Sporton Site No.		FCC Registration No.
	TH01-KS	03CH01-KS	CO01-KS
Test Engineer	Issac Song	Jun Liu	Eligah Wang
Temperature	24~25°C	22~23°C	22~24°C
Relative Humidity	49~51%	40~41%	37~39%
			149928

2.6 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.225
- ♦ ANSI C63.4-2003

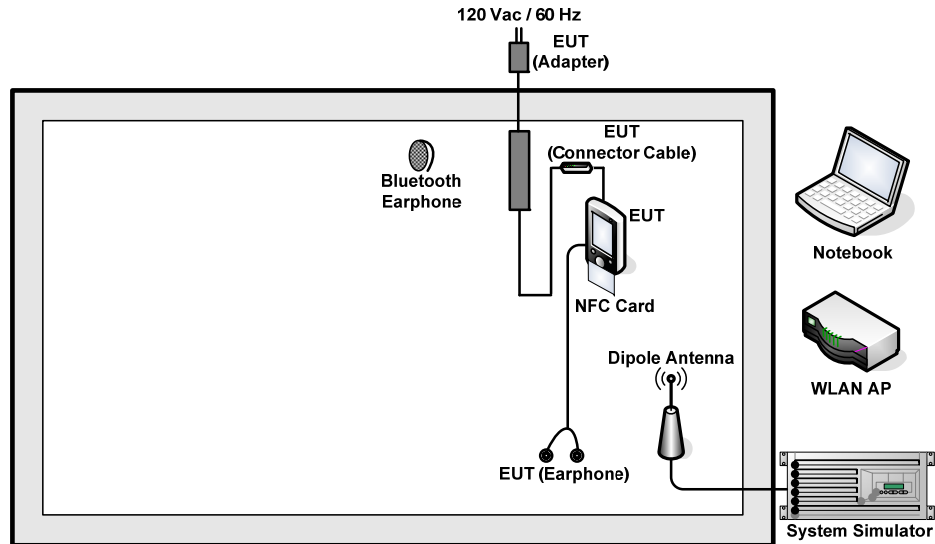
2.7 Test Modes

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

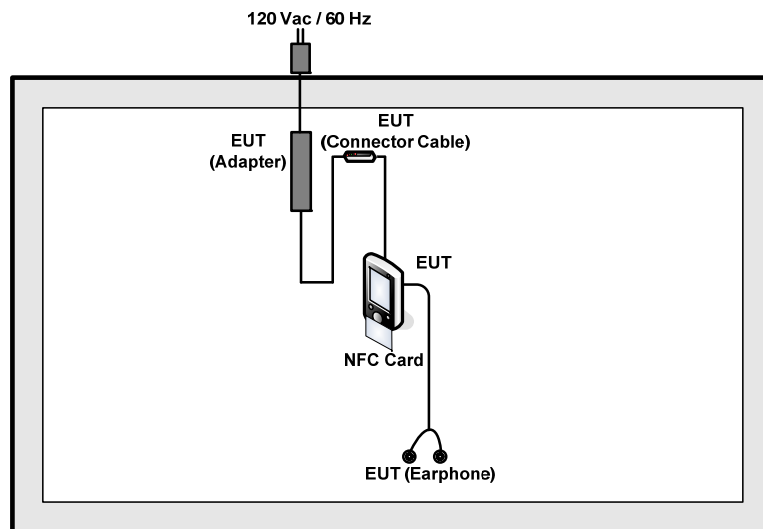
Test Items	
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions
20dB Spectrum Bandwidth	Frequency Stability
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz
Note: 1. The EUT was programmed to be in continuously transmitting mode. 2. The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 3 cm gap to the EUT.	

2.8 Test Configurations

<AC Conducted Emissions>



< For Fundamental Emissions and Mask and Radiated Emissions Measurement >



2.9 Table for Supporting Units

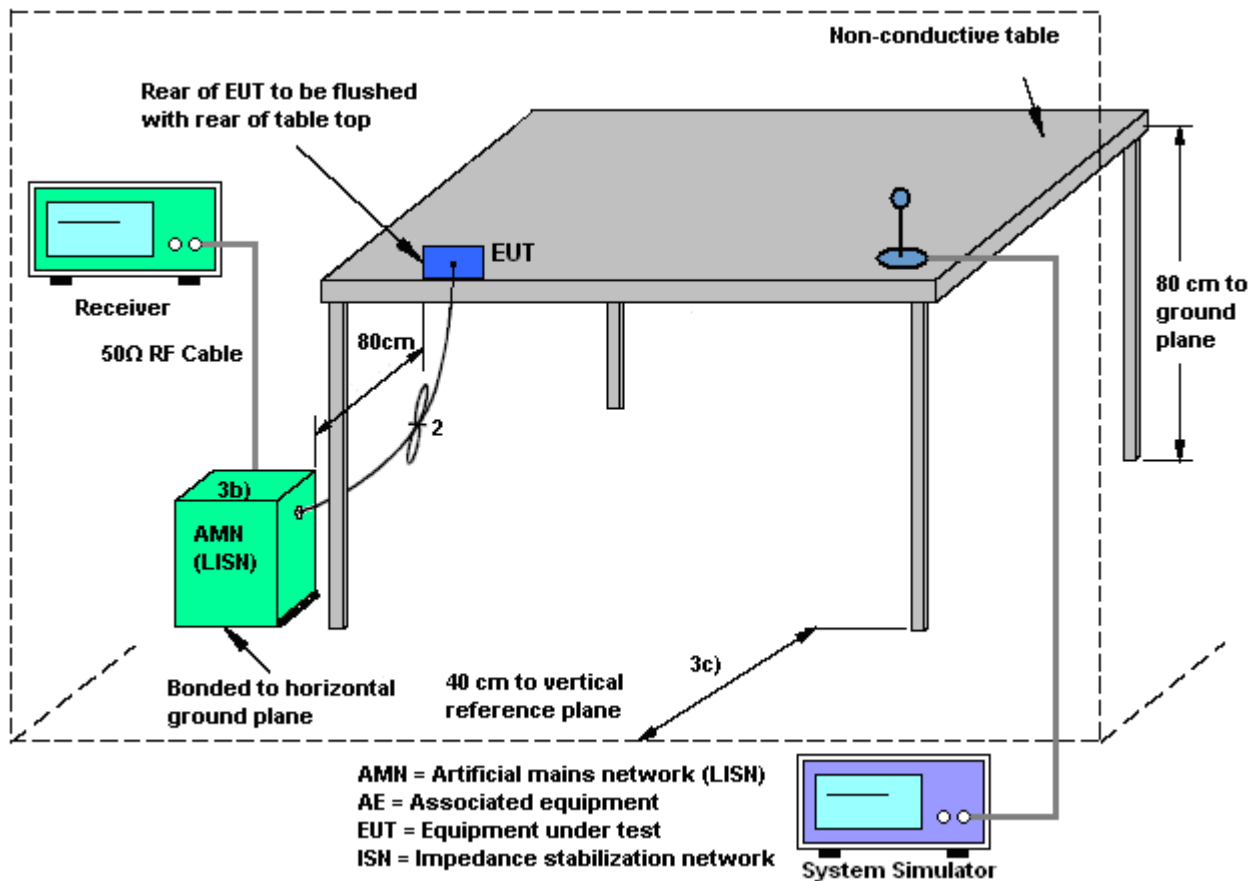
Support Unit	Manufacturer	Model	FCC ID
System Simulator	R&S	CMU 200	N/A
WLAN AP	D-Link	DIR-855	KA2DIR855A2
Bluetooth Earphone	Lenovo	LBH505	N/A
Notebook	Acer	MS2204	QDS-BRCM1018

3. CONDUCTED EMISSION TEST

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test setup



3.3 Test Result of Conducted Emission Test

Please refer to Appendix B.

3.4 AC Power Line Conducted Emissions Measurement

3.4.1 Limit

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

3.4.2 Test Procedures

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

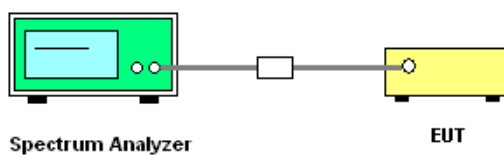
4. CONDUCTED TEST ITEMS

4.1 Measuring Instruments

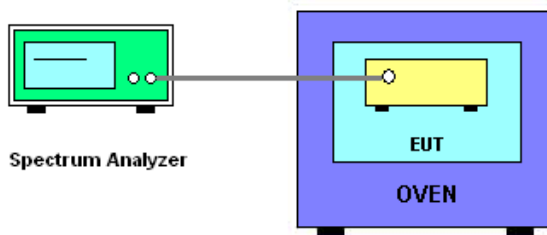
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 20dB Spectrum Bandwidth



4.2.2 Frequency Stability



4.3 Test Result of Conducted Test Items

Please refer to Appendix C.



4.4 20dB Spectrum Bandwidth Measurement

4.4.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band 13.553~13.567MHz

4.4.2 Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak Max hold mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.

4.5 Frequency Stability Measurement

4.5.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

4.5.2 Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire emissions bandwidth.
4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
5. The fc is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f_c \times 10^6$ ppm and the limit is less than ± 100 ppm.
6. Extreme temperature rule is -20°C~50°C.

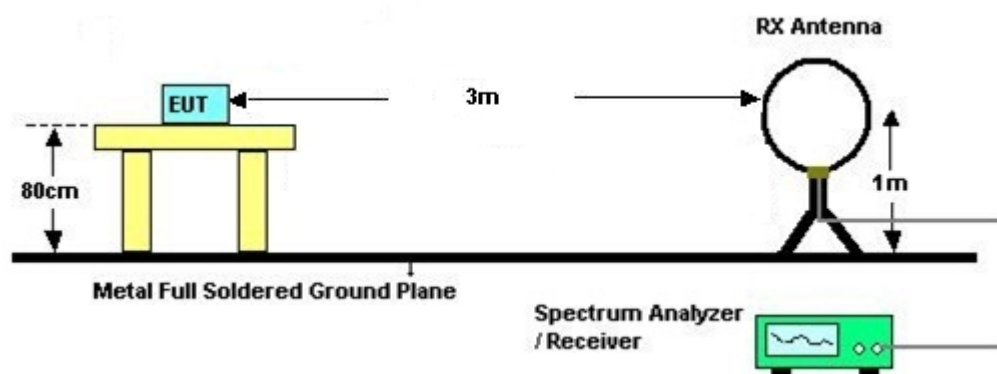
5. RADIATED TEST ITEMS

5.1 Measuring Instruments

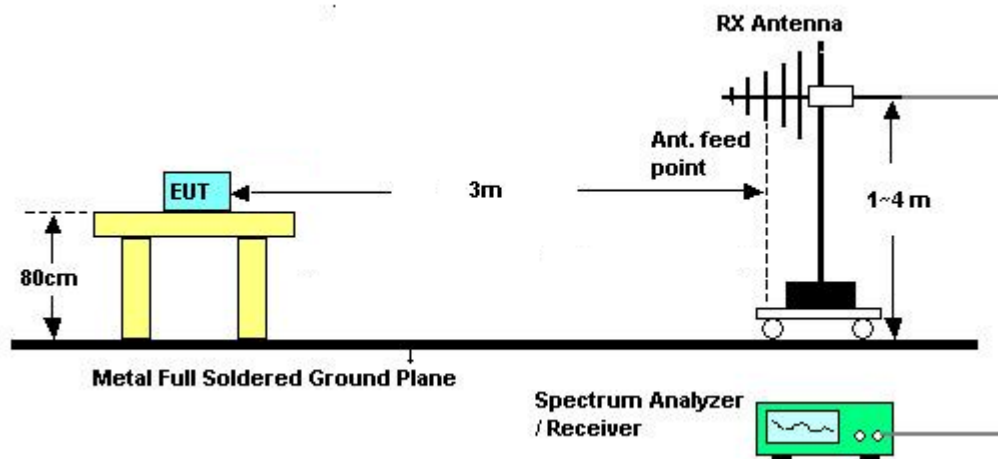
See list of measuring instruments of this test report.

5.2 Test Setup

5.2.1 For radiated emissions below 30MHz



5.2.2 For radiated emissions above 30MHz



5.3 Test Result of Radiated Test Items

Please refer to Appendix D.

5.4 Field Strength of Fundamental Emissions and Mask Measurement

5.4.1 Limit

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

5.4.2 Test Procedures

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

Note: Emission level (dBμV/m) = 20 log Emission level (μV/m).

5.5 Radiated Emissions Measurement

5.5.1 Limit

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

Frequencies (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

5.5.2 Measuring Instrument Setting

The following table is the setting of receiver.

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

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



5.5.3 Test Procedures

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

5.5.4 Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

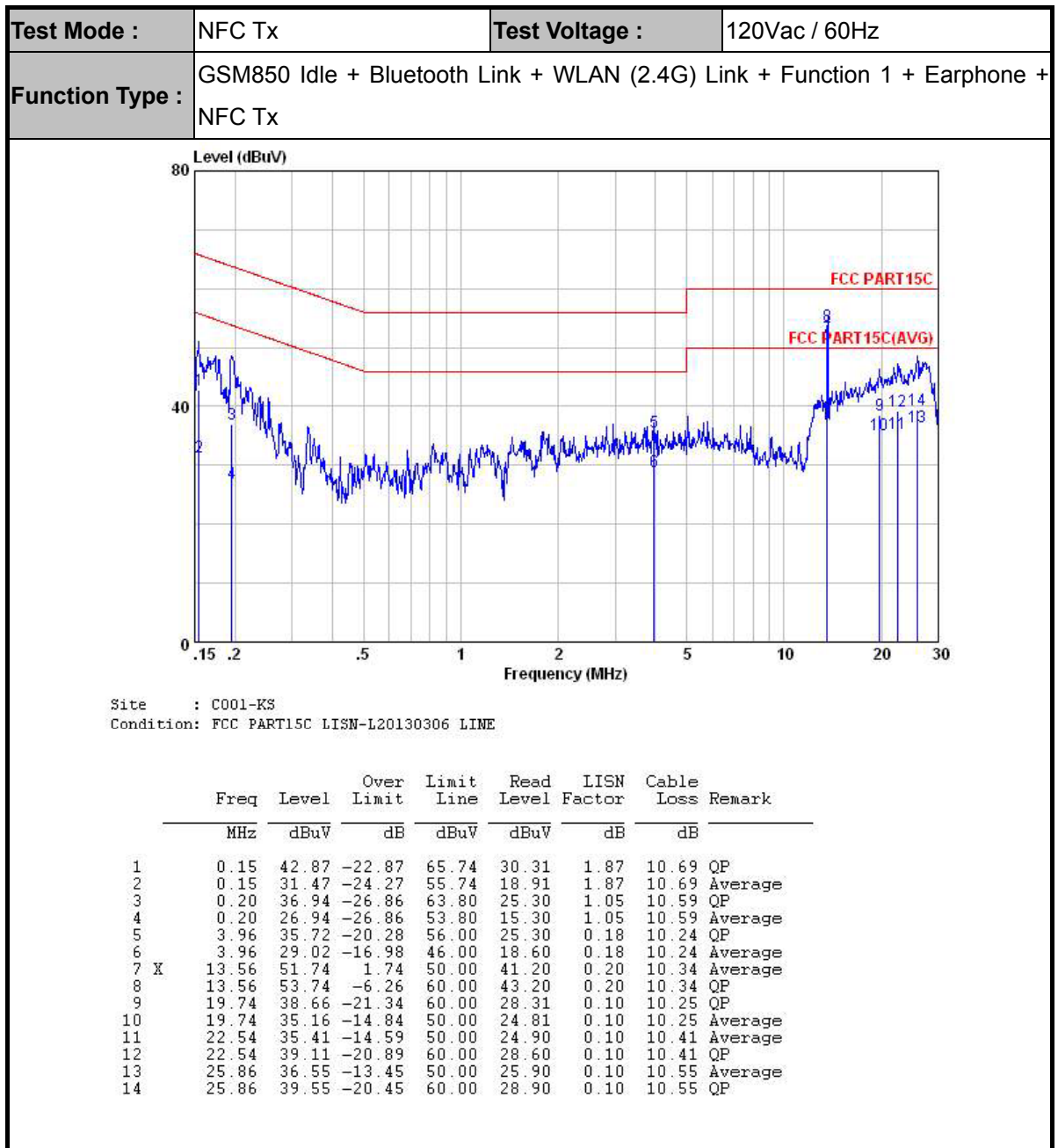
5.5.5 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

**6. LIST OF MEASURING EQUIPMENT**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 28, 2013	Jun. 13, 2014	Dec. 27, 2014	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Dec. 10, 2013	Jun. 13, 2014	Dec. 09, 2014	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 05, 2013	May 30, 2014	Nov. 04, 2014	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 09, 2013	May 30, 2014	Oct. 08, 2014	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 08, 2014	May 30, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161073	1MHz~1GHz	May 04, 2014	May 30, 2014	May 03, 2015	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	May 30, 2014	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	May 30, 2014	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	May 30, 2014	NCR	Radiation (03CH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2014	Jun. 11, 2014	May 03, 2015	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Dec. 10, 2013	Jun. 11, 2014	Dec. 09, 2014	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Dec. 10, 2013	Jun. 11, 2014	Dec. 09, 2014	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Nov. 12, 2013	Jun. 11, 2014	Nov. 11, 2014	Conduction (CO01-KS)

Appendix B. Test Results of Conducted Emission Test



Remark:

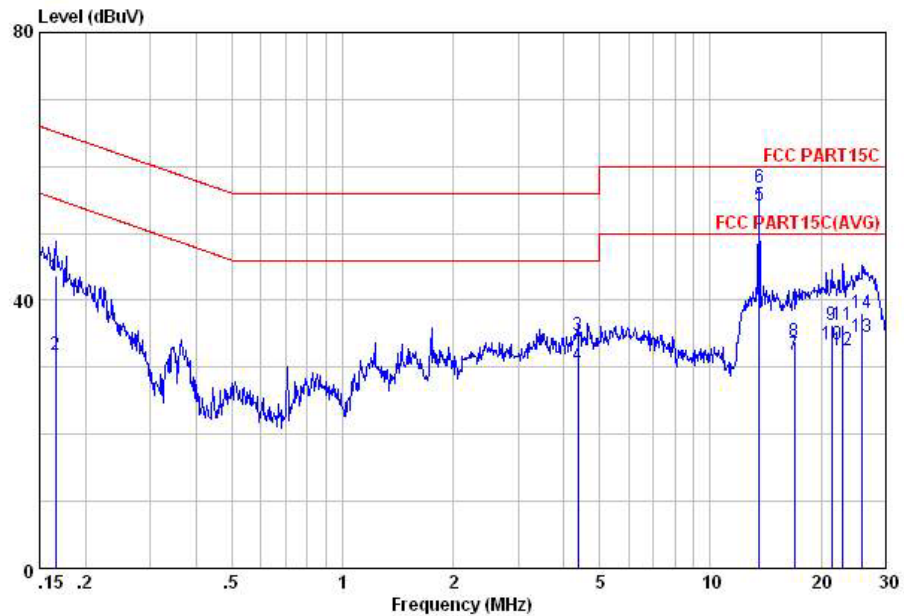
with antenna

13.56MHz is the NFC RF fundamental signal.

Function 1 stands for adapter + connector cable + EUT.



Test Mode :	NFC Tx	Test Voltage :	120Vac / 60Hz
Function Type :	GSM850 Idle + Bluetooth Link + WLAN (2.4G) Link + Function 1 + Earphone + NFC Tx		



Site : C001-KS
Condition: FCC PART15C LISN-N20130306 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
1	0.17	43.58	-21.58	65.16	31.29	1.63	10.66	QP
2	0.17	31.88	-23.28	55.16	19.59	1.63	10.66	Average
3	4.36	34.74	-21.26	56.00	24.30	0.19	10.25	QP
4	4.36	30.34	-15.66	46.00	19.90	0.19	10.25	Average
5 X	13.56	54.23	4.23	50.00	43.61	0.28	10.34	Average
6	13.56	56.93	-3.07	60.00	46.31	0.28	10.34	QP
7	16.93	31.87	-18.13	50.00	21.30	0.26	10.31	Average
8	16.93	33.87	-26.13	60.00	23.30	0.26	10.31	QP
9	21.37	36.43	-23.57	60.00	25.90	0.20	10.33	QP
10	21.37	33.43	-16.57	50.00	22.90	0.20	10.33	Average
11	22.90	36.24	-23.76	60.00	25.60	0.20	10.44	QP
12	22.90	32.54	-17.46	50.00	21.90	0.20	10.44	Average
13	25.86	34.63	-15.37	50.00	23.89	0.19	10.55	Average
14	25.86	38.13	-21.87	60.00	27.39	0.19	10.55	QP

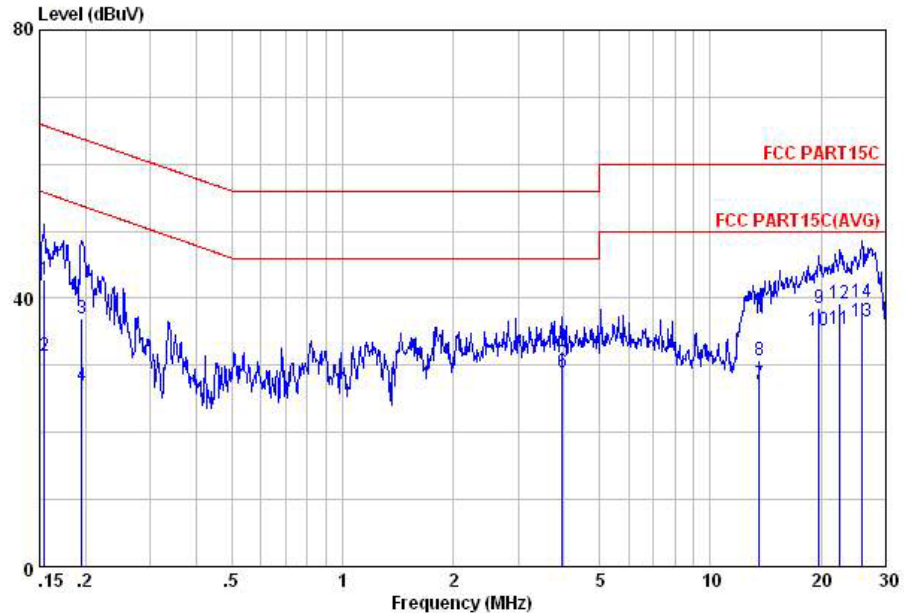
Remark:

with antenna

13.56MHz is the NFC RF fundamental signal.

Function 1 stands for adapter + connector cable + EUT.

Test Mode :	NFC Tx	Test Voltage :	120Vac / 60Hz
Function Type :	GSM850 Idle + Bluetooth Link + WLAN (2.4G) Link + Function 1 + Earphone + NFC Tx		



Site : C001-KS
Condition: FCC PART15C LISN-L20130306 LINE

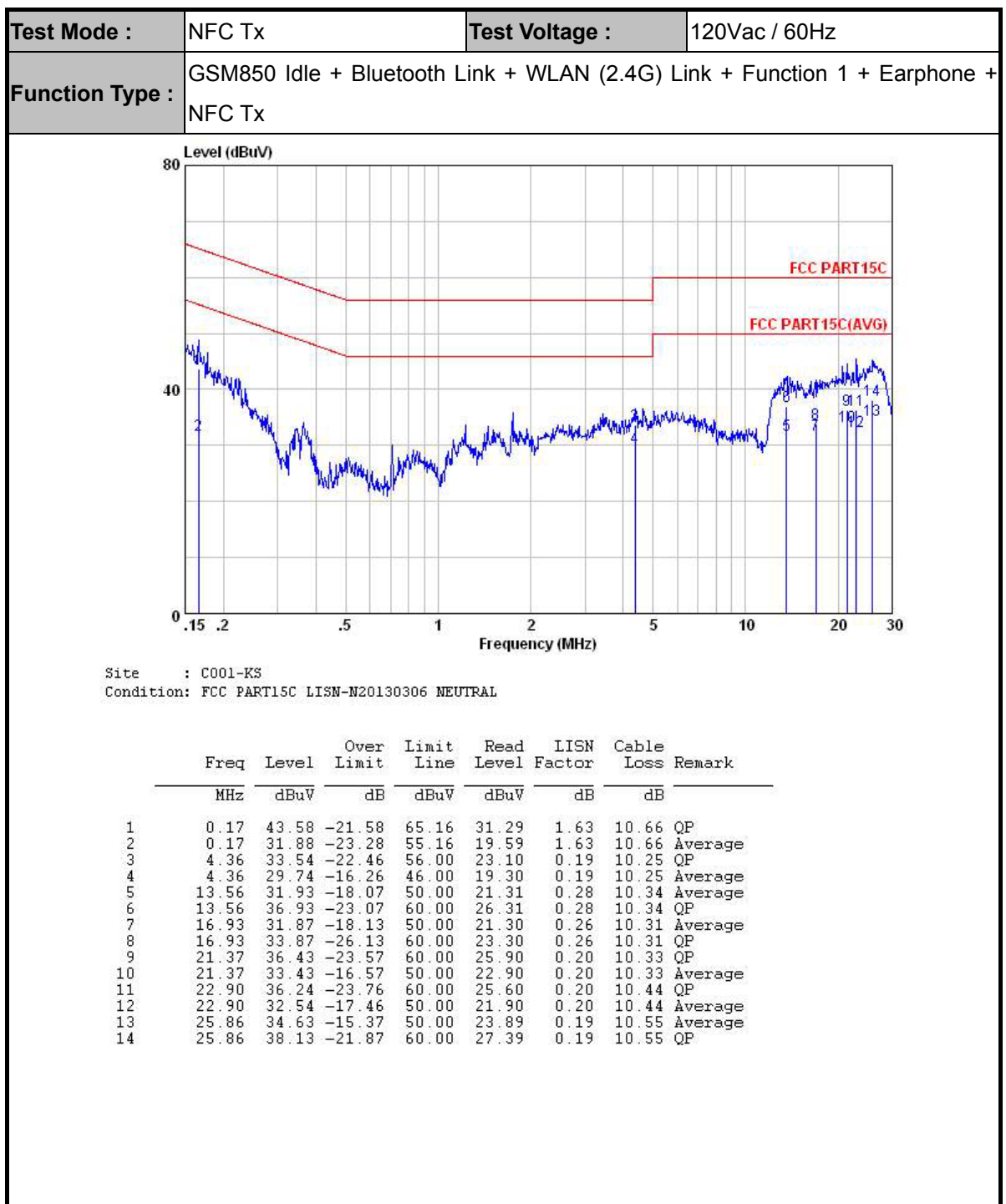
	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	42.87	-22.87	65.74	30.31	1.87	10.69	QP
2	0.15	31.47	-24.27	55.74	18.91	1.87	10.69	Average
3	0.20	36.94	-26.86	63.80	25.30	1.05	10.59	QP
4	0.20	26.94	-26.86	53.80	15.30	1.05	10.59	Average
5	3.96	32.02	-23.98	56.00	21.60	0.18	10.24	QP
6	3.96	29.02	-16.98	46.00	18.60	0.18	10.24	Average
7	13.56	27.14	-22.86	50.00	16.60	0.20	10.34	Average
8	13.56	30.84	-29.16	60.00	20.30	0.20	10.34	QP
9	19.74	38.66	-21.34	60.00	28.31	0.10	10.25	QP
10	19.74	35.16	-14.84	50.00	24.81	0.10	10.25	Average
11	22.54	35.41	-14.59	50.00	24.90	0.10	10.41	Average
12	22.54	39.11	-20.89	60.00	28.60	0.10	10.41	QP
13	25.86	36.55	-13.45	50.00	25.90	0.10	10.55	Average
14	25.86	39.55	-20.45	60.00	28.90	0.10	10.55	QP

Remark:

with dummy load

Only the fundamental NFC signal needs to be retested per C63.4.

Function 1 stands for adapter + connector cable + EUT.



Remark:

with dummy load

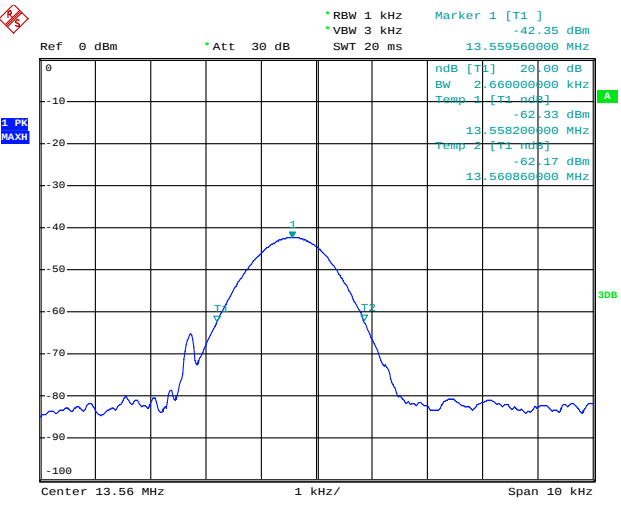
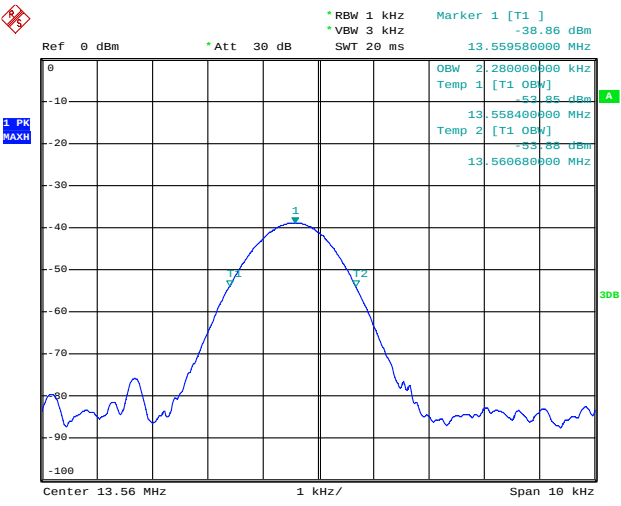
Only the fundamental NFC signal needs to be retested per C63.4.

Function 1 stands for adapter + connector cable + EUT.



Appendix C. Test Results of Conducted Test Items

C.1 Test Result of 20dB Spectrum Bandwidth

Test mode		NFC Tx		Test Frequency (MHz)	13.56
 Date: 13.JUN.2014 14:40:37		 Date: 13.JUN.2014 14:48:11			
20dB Bandwidth (kHz)		2.660		99% OccupiedBW(kHz)	2.280
Frequency range (MHz)		$f_L > 13.553$		13.55820	Test Result
		$f_H < 13.567$		13.56086	Complies

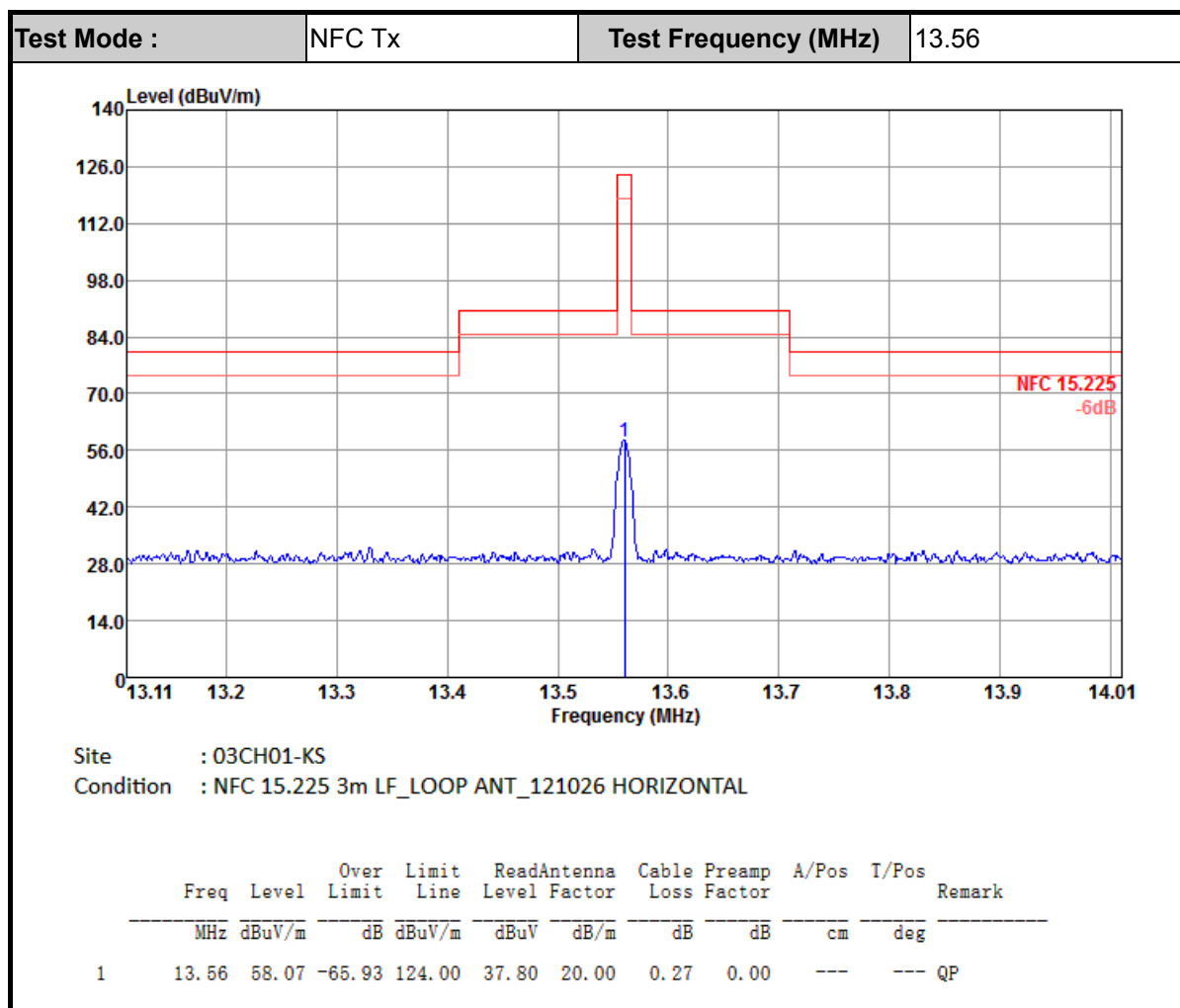
**C.2 Test Result of Frequency Stability**

Voltage vs. Frequency Stability		Temperature vs. Frequency Stability	
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Measurement Frequency (MHz)
3.7	13.559540	-20	13.559530
3.6	13.559540	-10	13.559540
4.2	13.559540	0	13.559540
		10	13.559540
		20	13.559540
		30	13.559540
		40	13.559530
		50	13.559540
Max.Deviation (MHz)	-0.000460	Max.Deviation (MHz)	-0.000470
Max.Deviation (ppm)	-33.9233	Max.Deviation (ppm)	-34.6608
Limit	FS < ±100 ppm	Limit	FS < ±100 ppm
Test Result	PASS	Test Result	PASS

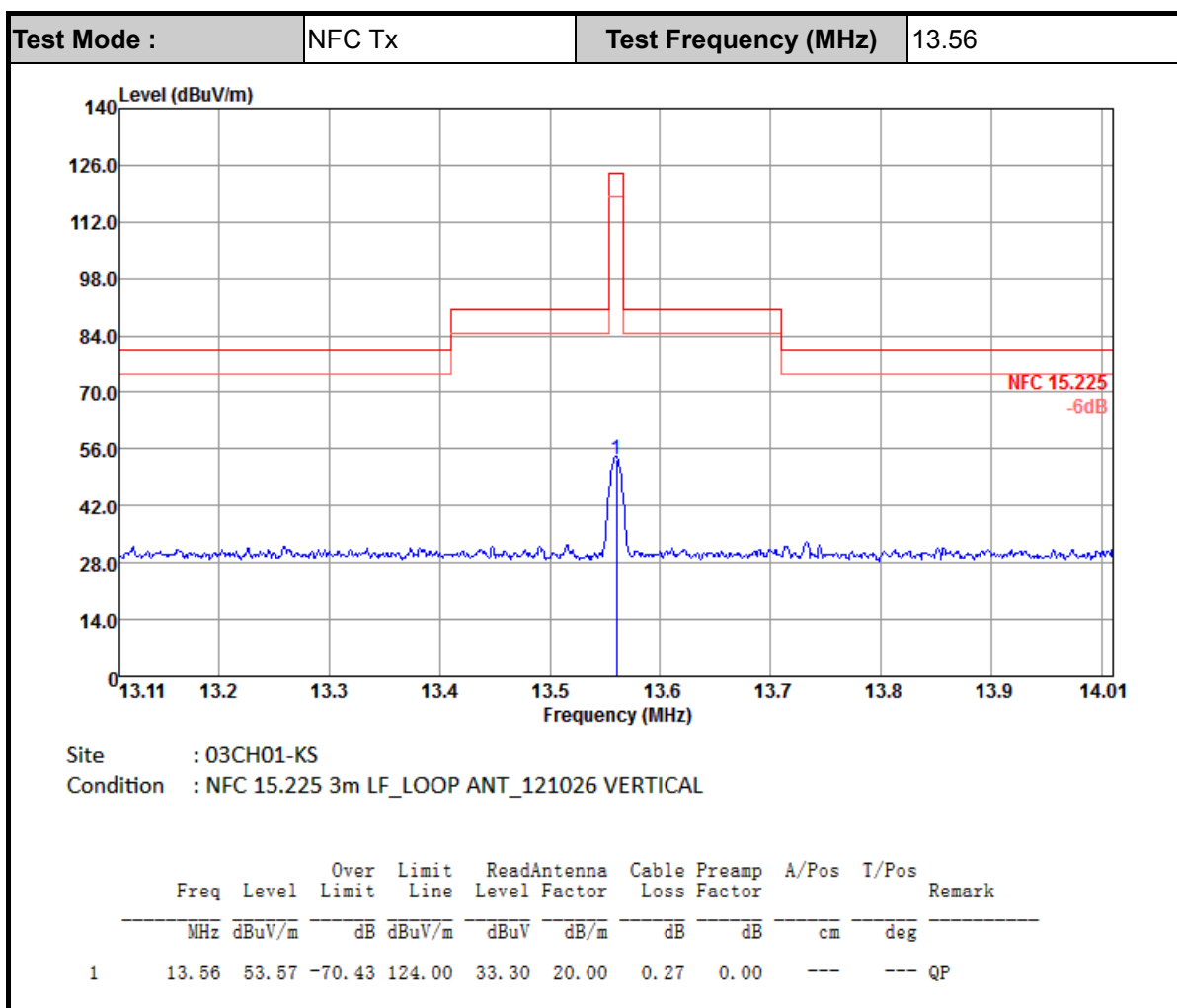


Appendix D. Test Results of Radiated Test Items

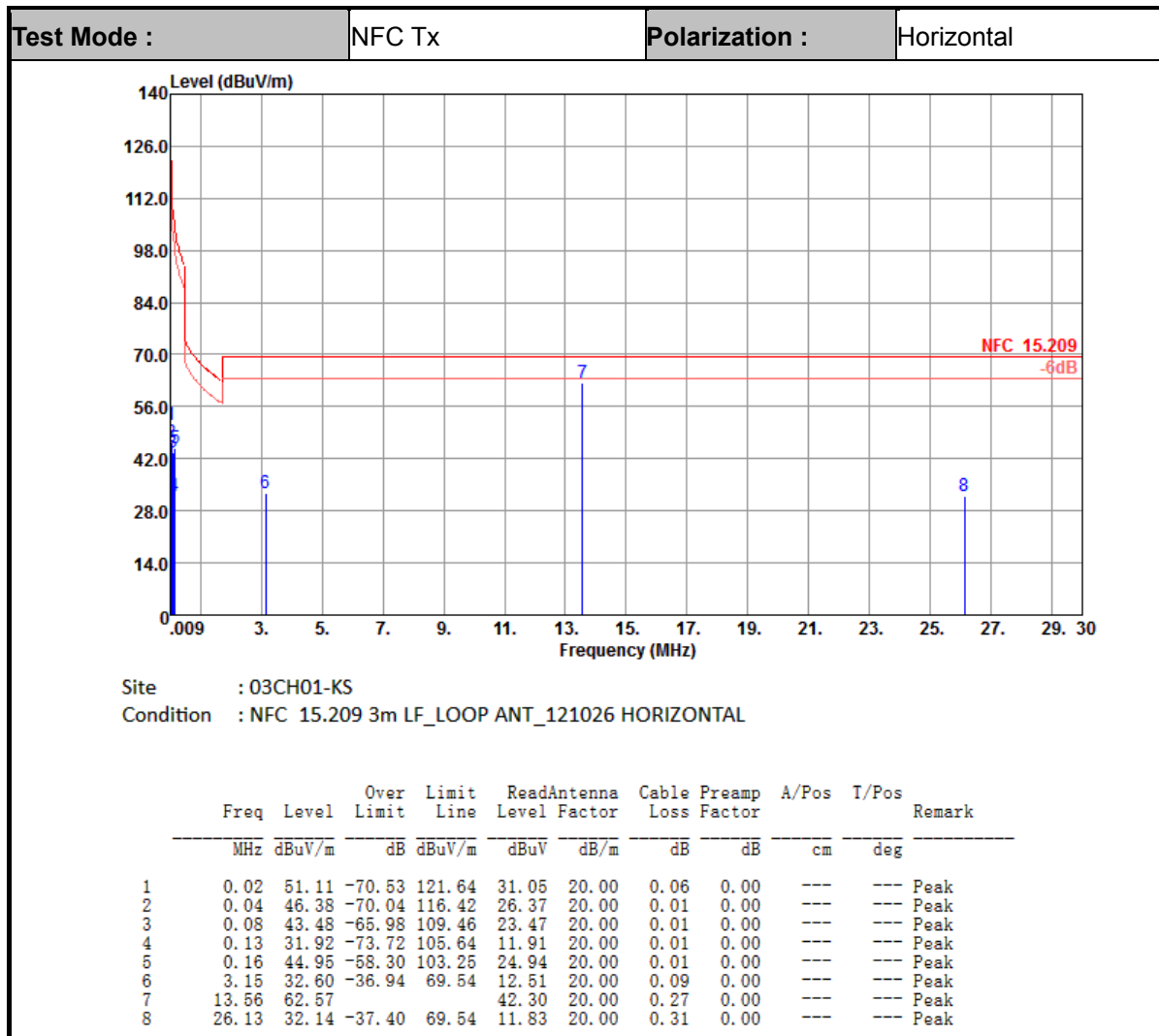
D.1 Test Result of Field Strength of Fundamental Emissions



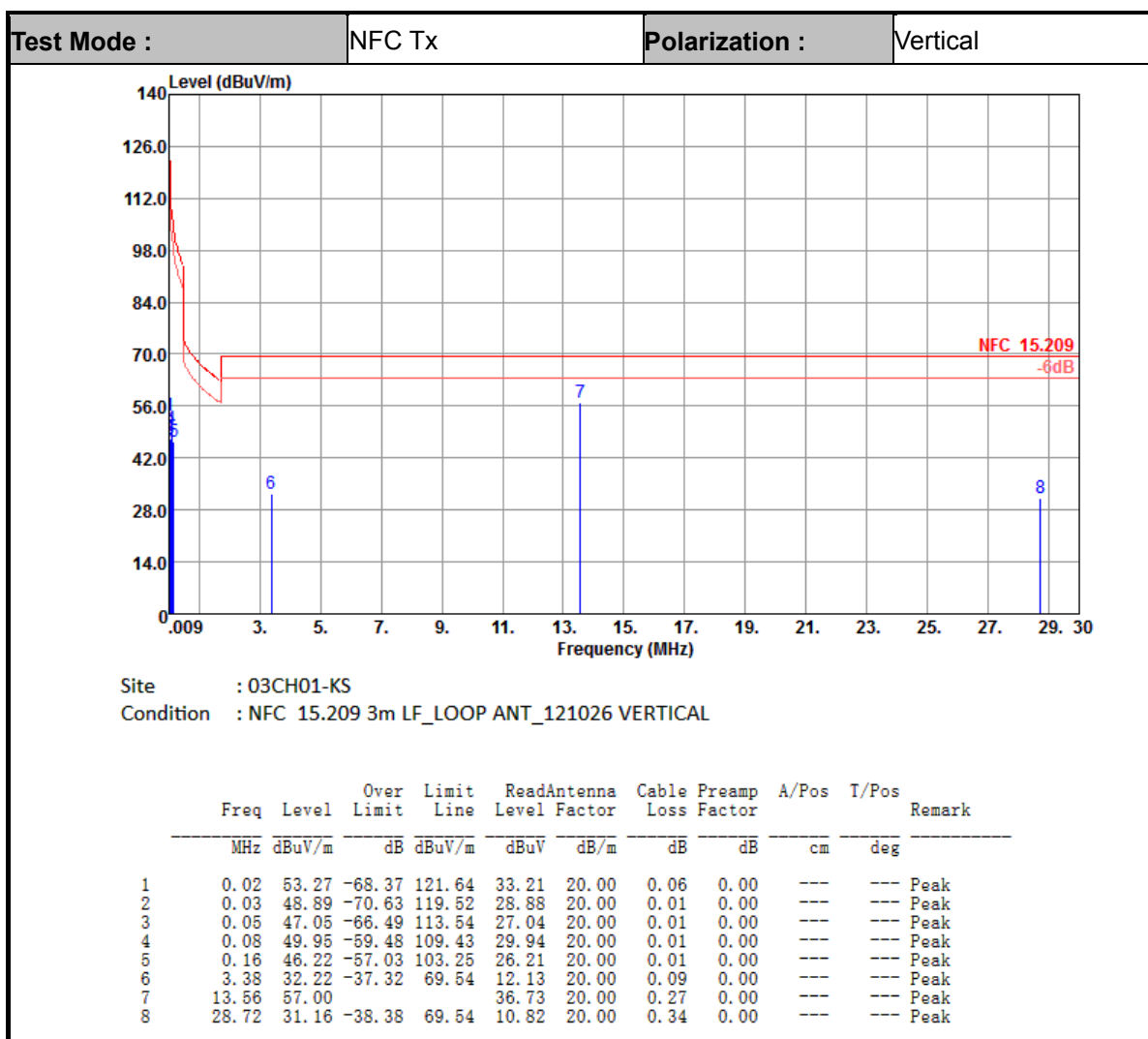
Note: All NFC's spurious emissions are below 20dB of limits.



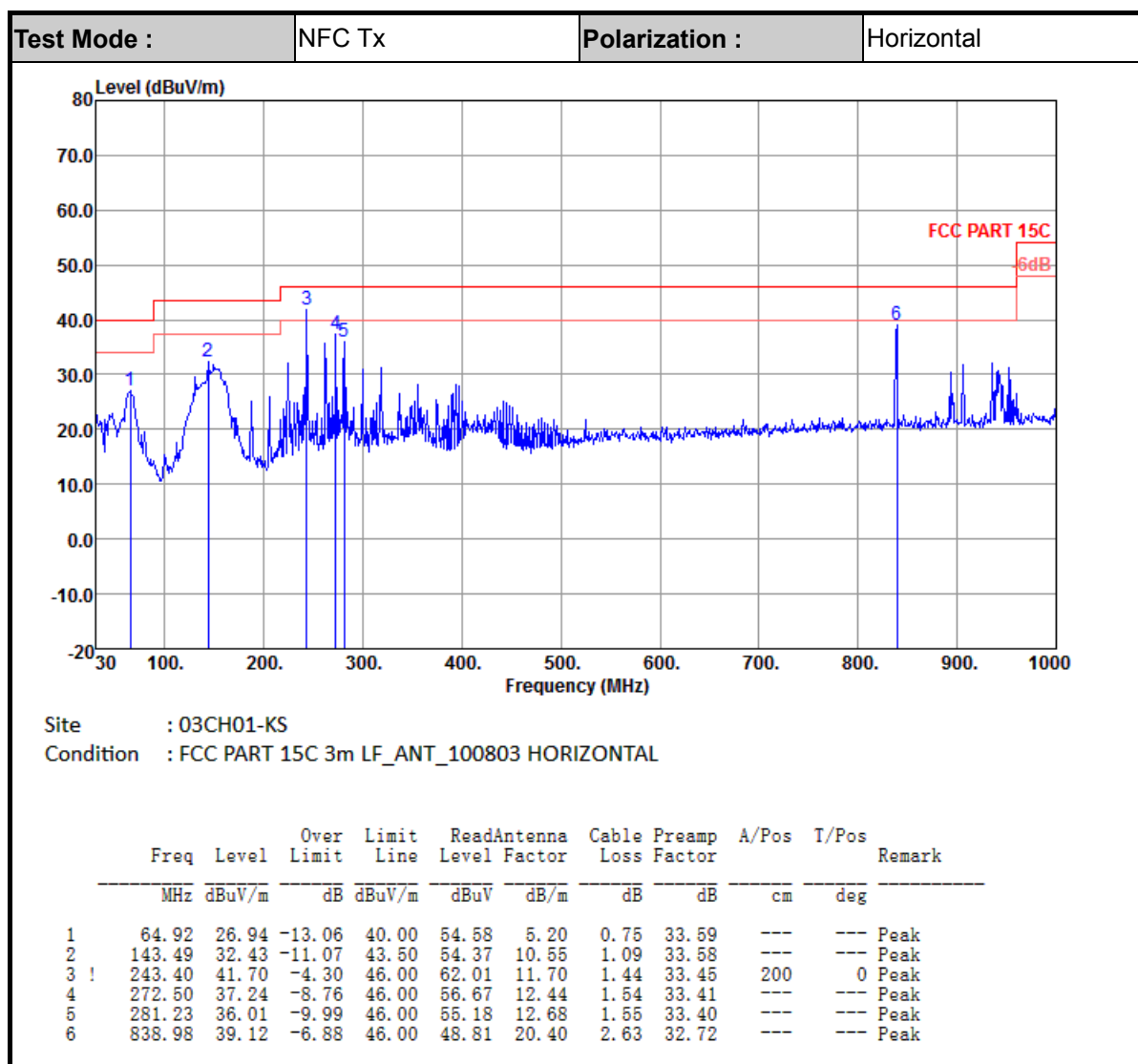
Note: All NFC's spurious emissions are below 20dB of limits.

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

Note:

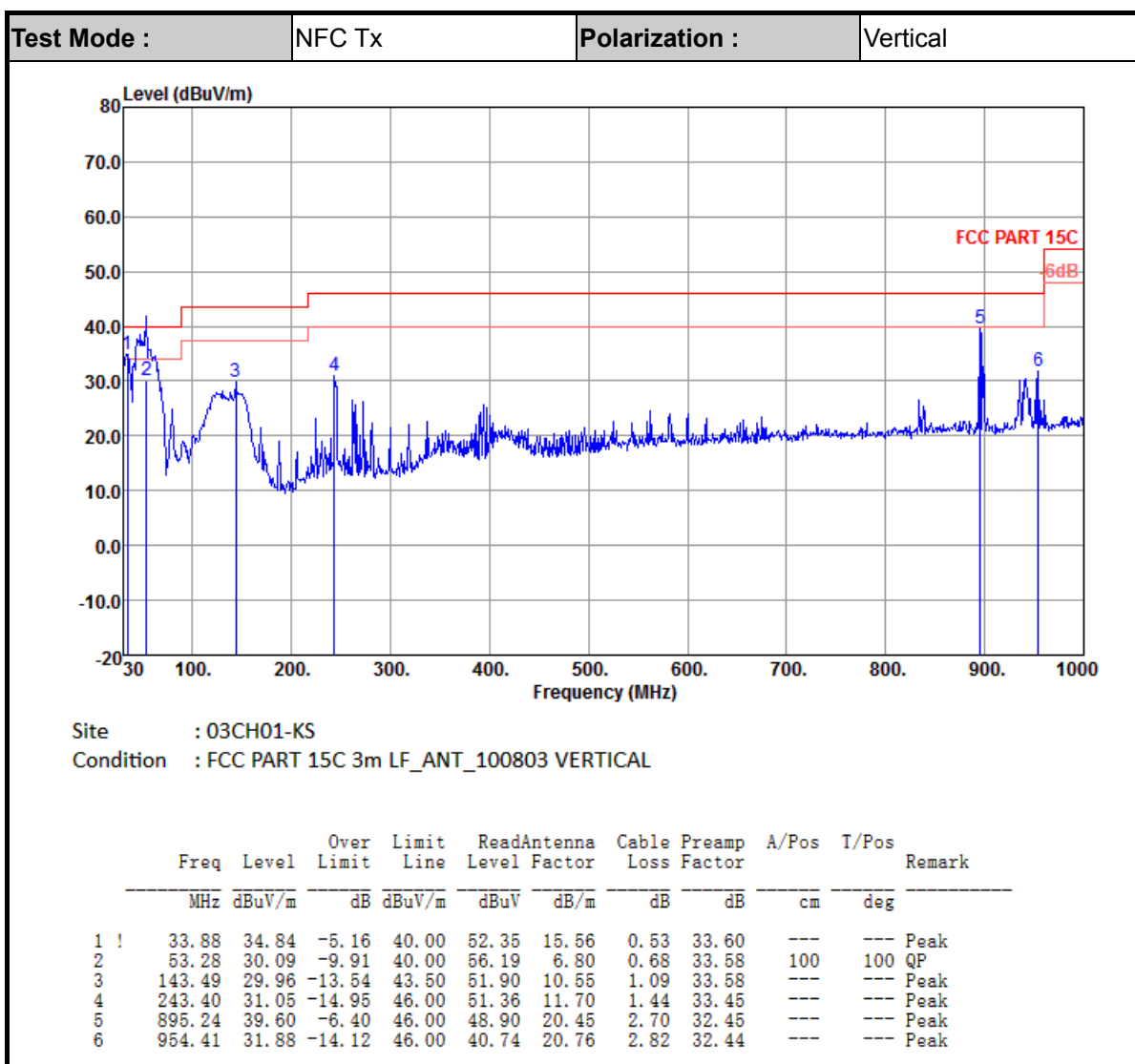
1. 13.56 MHz is fundamental signal which can be ignored.
2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
3. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
4. Limit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

**Note:**

5. 13.56 MHz is fundamental signal which can be ignored.
6. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
7. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
8. Limit line = specific limits (dB μ V) + distance extrapolation factor.

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

Note:

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

**Note:**

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