# **FCC RF Test Report**

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT1929-8

FCC ID : IHDT56XE3

STANDARD : FCC Part 15 Subpart C §15.225

**CLASSIFICATION**: (DXX) Low Power Communication Device Transmitter

This is a variant report. The product was received on Jan. 18, 2018 and testing was completed on Mar. 15, 2018. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

#### SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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Report No.: FR811821-07D

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# **REVISION HISTORY**

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR811821-07D	Rev. 01	Initial issue of report	Mar. 16, 2018

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# **SUMMARY OF THE TEST RESULT**

Applied Standard: 47 CFR FCC Part 15 Subpart C §15.225							
Part	FCC Rule	Description of Test	Result	Remark			
,	15.207	AC Power Line Conducted Emissions	Not Required	-			
	15.215(c)	20dB Spectrum Bandwidth	Not Required	-			
-	-	99% OBW Spectrum Bandwidth	Not Required	-			
	15.225(e)	Frequency Stability	Not Required	-			
3.1	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Complies	Max level 68.39 dBµV/m at 13.560 MHz			
3.2 15.225(d) & 15.209		Radiated Spurious Emissions	Complies	Under limit 5.22 dB at 40.800MHz			
3.3 15.203 Antenna Requirements Complies -							
Remark: Not required means after assessing, test items are not necessary to carry out.							

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# 1. General Description

# 1.1 Applicant

### **Motorola Mobility LLC**

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

### 1.2 Manufacturer

### **Motorola Mobility LLC**

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

# 1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Cellular Phone			
Brand Name	Motorola			
Model Name	XT1929-8			
FCC ID	IHDT56XE3			
Sample 1	EUT with Dual SIM			
Sample 2	EUT with Single SIM			
IMEI Code	Radiation: IMEI 1: 354105090023010 IMEI 2: 354105090023028			
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/GNSS/NFC WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE			
HW Version	DVT2			
EUT Stage	Identical Prototype			

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#### 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. This is a variant report. All the test cases were performed on original report which can be referred to Sporton Report Number FR811821-02D.

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Accessory List				
	Brand Name :	Motorola		
AC Adapter 1	Model Name:	SC-23 SPN5971A		
	Manufacturer:	Salom		
	Brand Name :	Motorola		
AC Adapter 2	Model Name:	SC-23 SPN5989A		
	Manufacturer:	Chenyang		
	Brand Name :	Motorola		
AC Adapter 3	Model Name:	SC-24 SPN5972A		
	Manufacturer:	Salom		
	Brand Name :	Motorola		
AC Adapter 4	Model Name:	SC-24 SPN5990A		
	Manufacturer:	Chenyang		
	Brand Name :	Motorola		
Battery	Model Name:	JS40		
	Manufacturer:	SUNWODA		
Earphone	Brand Name :	Motorola		
Laiphone	Model Name :	SH38C16618		
	Brand Name :	Motorola		
C2Audio Cable 1	Model Name:	SC18C27844		
	Manufacturer:	Luxshare		
	Brand Name :	Motorola		
C2Audio Cable 2	Model Name :	SC18C27845		
	Manufacturer:	Cabletech		
USB Cable 1	Brand Name :	Cabletech		
OSB Cable 1	Model Name :			
USB Cable 2	Brand Name :	FOXLINK		
USB Cable 2	Model Name :	SKN6473A 17195-C 0403532		
USB Cable 3	Brand Name :	SAIBAO		
OSB Cable 3	Model Name :	SKN6473A 17214-C 1127044		
USB Cable 4	Brand Name :	Luxshare		
JOD JUDIC 4	Model Name :	SKN6473A 17227-C 1126538		

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# 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Frequency Range 13.553 ~ 13.567MHz			
Channel Number	1		
Antenna Type	Loop Antenna		
Type of Modulation	ASK		

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**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 1.5 Modification of EUT

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

# 1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.		
	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,		
Test Site Location	Taoyuan City, Taiwan (R.O.C.)		
	TEL: +886-3-327-0868 / FAX: +886-3-327-0855		
Test Site No.	Sporton Site No.		
rest site No.	03CH11-HY		
Test Engineer	Hao Hsu and Ken Wu		
Temperature	21~25℃		
Relative Humidity	52~57%		

# 1.7 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 C63.10-2013

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# 2. Test Configuration of Equipment Under Test

# 2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

The following table is a list of the test modes shown in this test report.

Test Items			
Field Strength of Fundamental Emissions	Radiated Emissions 30MHz~1GHz		
Radiated Emissions 9kHz~30MHz			

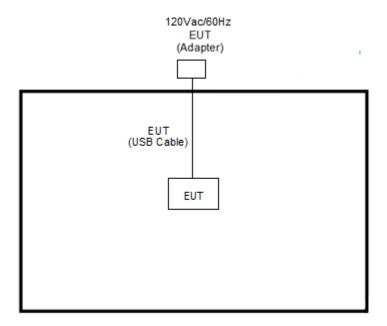
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**Remark:** For Radiated Test Cases, The tests were performance with AC Adapter 1, USB Cable 1, and Sample 1.

The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type F) was recorded in this report. Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Z plane as worst plane) from all possible combinations.

# 2.2 Connection Diagram of Test System

< For Fundamental Emissions and Mask and Radiated Emissions Measurement >



# 2.3 EUT Operation Test Setup

The EUT was programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 2 cm gap to the EUT.

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# 3. Test Results

# 3.1 Field Strength of Fundamental Emissions and Mask Measurement

### 3.1.1 Limit

Rules and specifications	FCC CFR 47 Part 15 section 15.225				
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.				
From of Emission (MII-)	Field Strength	Field Strength	Field Strength	Field Strength	
Freq. of Emission (MHz)	(μV/m) at 30m	(dBµV/m) at 30m	(dBµV/m) at 10m	(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	

# 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

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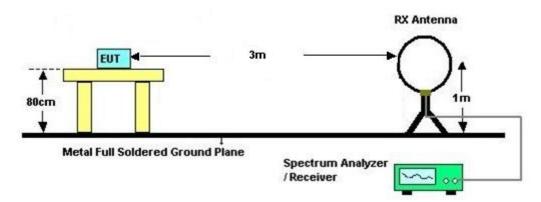
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#### 3.1.3 Test Procedures

- Configure the EUT according to ANSI C63.10. 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 with RBW set to 9kHz. Note: Emission level ( $dB\mu V/m$ ) = 20 log Emission level ( $\mu V/m$ ).

#### 3.1.4 Test Setup

For radiated emissions below 30MHz



#### 3.1.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix A.

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### 3.2 Radiated Emissions Measurement

#### 3.2.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

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Frequencies	Field Strength	Measurement Distance		
(MHz)	(μV/m)	(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		

### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 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.

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#### 3.2.4 Test Procedures

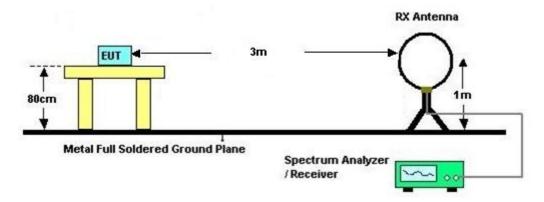
- Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable
   8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 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.
- 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

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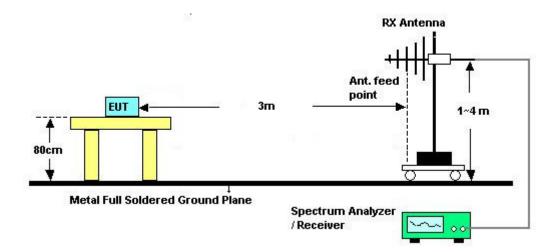
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### 3.2.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



#### 3.2.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix A.

**Remark:** There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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# 3.3 Antenna Requirements

### 3.3.1 Standard Applicable

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.

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 rule.

### 3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

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# 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Agilent Technologies	N9038A(MXE )	MY532900 45	20MHz~8.4GHz	Jan. 18, 2018	Mar. 15, 2018	Jan. 17, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-0 6	35414&AT- N0602	30MHz~1GHz	Oct. 14, 2017	Mar. 15, 2018	Oct. 13, 2018	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Mar. 15, 2018	Nov. 22, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Mar. 15, 2018	Nov. 09, 2018	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz ~ 44GHz	Oct. 19, 2017	Mar. 15, 2018	Oct. 18, 2018	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Mar. 15, 2018	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 15, 2018	N/A	Radiation (03CH11-HY)

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# 5. Uncertainty of Evaluation

### **Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)**

Measuring Uncertainty for a Level of Confidence	3.45
of 95% (U = 2Uc(y))	3.45

### <u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	5.20
of 95% (U = 2Uc(y))	5.20

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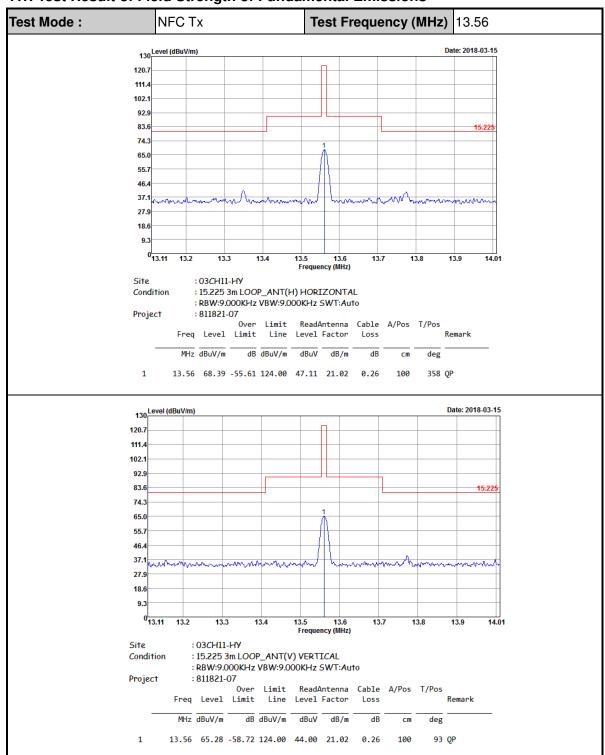
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# **Appendix A. Test Results of Radiated Test Items**

### A1. Test Result of Field Strength of Fundamental Emissions



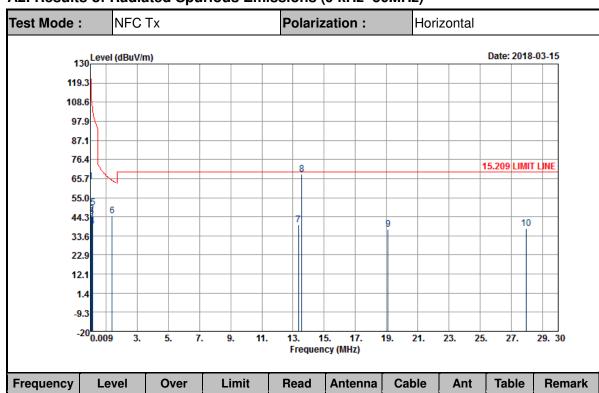
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### A2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

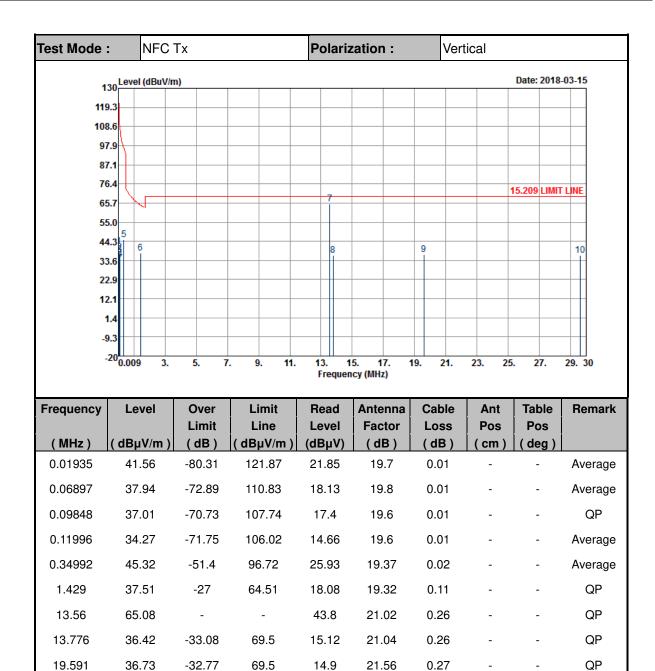


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Frequency	Level	Over	Limit	Limit Read		Antenna Cable		Table	Remark
		Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	( $dB\mu V/m$ )	( dB )	$(dB\mu V/m)$	(dBµV)	( dB )	( dB )	( cm )	(deg)	
0.01905	64.01	-58	122.01	44.3	19.7	0.01	-	-	Average
0.07209	45.46	-64.99	110.45	25.65	19.8	0.01	-	-	Average
0.09914	44.39	-63.29	107.68	24.78	19.6	0.01	-	-	QP
0.12264	39.07	-66.76	105.83	19.49	19.57	0.01	-	-	Average
0.15816	49.24	-54.38	103.62	29.7	19.53	0.01	-	-	Average
1.414	44.83	-19.77	64.6	25.4	19.32	0.11	-	-	QP
13.344	39.83	-29.67	69.5	18.58	21	0.25	-	-	QP
13.56	68.13	-	-	46.85	21.02	0.26	-	-	QP
19.105	37.3	-32.2	69.5	15.51	21.52	0.27	-	-	QP
27.96	37.82	-31.68	69.5	15.82	21.76	0.24	-	-	QP

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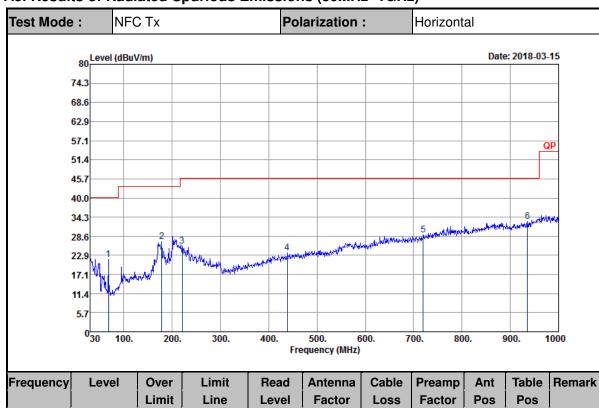
#### Note:

- 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 (specific distance / test distance) (dB);
- 4. Limit line = specific limits ( $dB\mu V$ ) + distance extrapolation factor.

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### A3. Results of Radiated Spurious Emissions (30MHz~1GHz)

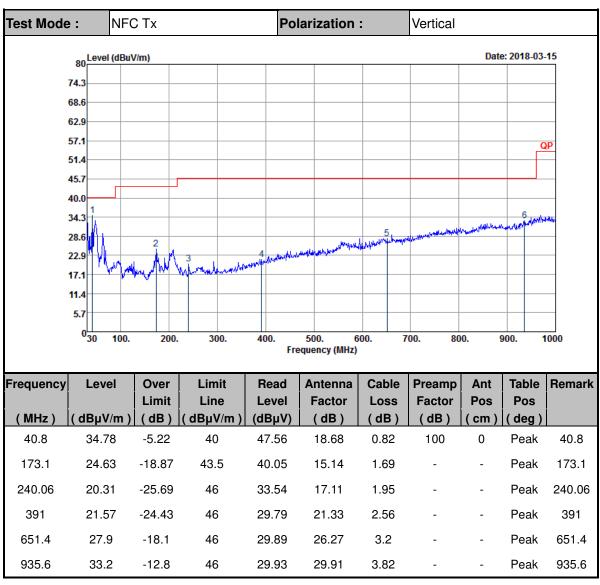


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Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(dB)	( cm )	(deg)	
67.8	21.62	-18.38	40	41.16	11.88	1.02	-	-	Peak	67.8
178.5	26.87	-16.63	43.5	42.57	14.86	1.69	-	-	Peak	178.5
220.62	25.6	-20.4	46	40.97	15.18	1.72	-	-	Peak	220.62
437.9	23.67	-22.33	46	30.42	22.76	2.7	-	-	Peak	437.9
720	28.99	-17.01	46	30.49	26.86	3.4	-	-	Peak	720
935.6	32.93	-13.07	46	29.66	29.91	3.82	100	0	Peak	935.6

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#### 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  $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$ .
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.

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