

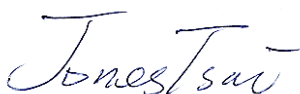
FCC RADIO TEST REPORT

FCC ID : UZ7RTL10B1
Equipment : Tablet
Brand Name : Zebra
Model Name : RTL10B1
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC Part 15 Subpart C §15.225

The product was received on Feb. 22, 2019 and testing was started from Mar. 29, 2019 and completed on Apr. 16, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Reviewed by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR922214D	01	Initial issue of report	May 17, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.207	AC Power Line Conducted Emissions	Pass	Under limit 8.49 dB at 13.560MHz
3.2	15.215(c)	20dB Spectrum Bandwidth	Pass	-
	2.1049	99% OBW Spectrum Bandwidth	Reporting only	-
3.3	15.225(e)	Frequency Stability	Pass	-
3.4	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Pass	Max level 54.88 dB μ V/m at 13.560 MHz
3.5	15.225(d) 15.209	Radiated Spurious Emissions	Pass	Under limit 6.48 dB at 40.800MHz
3.6	15.203	Antenna Requirements	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Maggie Chiang



1. General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet
Brand Name	Zebra
Model Name	RTL10B1
FCC ID	UZ7RTL10B1
Sample 1	EUT with SKU 1 + Keyboard
Sample 2	EUT with SKU 1
Sample 3	EUT with SKU 2
Sample 4	EUT with SKU 3
Sample 5	EUT with SKU 4
EUT supports Radios application	WCDMA/HSPA/LTE/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	DV0
SW Version	Android version 8.1.0
FW Version - Xpad	01-17-09.00-OG-U00-PLT
FW Version - Xslate	01-17-05.00-OG-U00-PRD
FW Version - Xbook	01-17-05.00-OG-U00-PRD
MFD - Xpad	19MAR01
MFD - Xslate	19MAR01
MFD - Xbook	19MAR01
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
AC Adapter	Brand Name	Delta	Model Name	ADP-65JH HB
Spare Standard Battery 36Whr	Brand Name	XPLORE	Model Name	XLBM1
Keyboard dock	Brand Name	XPLORE	Model Name	LX-KB
Touch Pen	Brand Name	WACOM	Model Name	CP-903-05B-2
Touch Pen	Brand Name	EMPIA	Model Name	EPNB-8C1000-0000 40820A01
Touch Pen	Brand Name	HAO SHUAN	Model Name	440007

<Sample Information>

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
DV0	SKU 1+ Keyboard	L10A - SKU1	L10A - SKU2	L10A - SKU3	L10A - SKU4
ID	Xbook	XSLATE	XPAD	XPAD	XPAD
OS	Refer Xsplate	Android O	Android O	Android O	Android O
CPU		Qualcomm SDM660	Qualcomm SDM660	Qualcomm SDM660	Qualcomm SDM660
Display with touch		Panasonic EP101R1912N50 0TG 10.1" LCD (500nits)	Panasonic EP101R1912N50 0TG 10.1" LCD (500nits)	Panasonic EP101R1912N50 0TG 10.1" LCD (1000nits)	Panasonic EP101R1912N50 0TG 10.1" LCD (1000nits) with digitizer
Memory		Samsung LPDDR4 4GB Hynix LPDD4 4 GB	Samsung LPDDR4 4GB Hynix LPDD4 4 GB	Samsung LPDDR4 4GB Micron LPDD4 4 GB	Samsung LPDDR4 4GB Micron LPDD4 4 GB
eMMC		TOSHIBA 64GB	TOSHIBA 64GB	TOSHIBA 64GB	TOSHIBA 64GB
GPS		Qualcomm	Qualcomm	Qualcomm	Qualcomm
WWAN		Qualcomm	Qualcomm	Qualcomm	Qualcomm
WLAN		Qualcomm WCN3990	Qualcomm WCN3990	Qualcomm WCN3990	Qualcomm WCN3990
Antenna		WLAN*2/NFC /GPS/WWAN*2	WLAN*2/NFC /GPS/WWAN*2	WLAN*2/NFC /GPS/WWAN*2	WLAN*2/NFC /GPS/WWAN*2
Barcode Reader		No	Yes	Yes	Yes
HDMI		No	No	Yes	No
Serial Port		No	Yes	No	No

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	13.553 ~ 13.567MHz
Channel Number	1
20dBW	2.66 KHz
99%OBW	2.24 KHz
Antenna Type	Loop Antenna
Type of Modulation	ASK

Remark: The above EUT's information was declared by manufacturer.

1.3 Modification of EUT

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

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		
	TH03-HY	CO05-HY	03CH07-HY
Test Engineer	George Chen	Eric Jeng	Jesse Wang and Stan Hsieh
Temperature	22~24°C	22~25°C	21~23°C
Relative Humidity	53~55%	52~55%	51~53%

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190

1.5 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
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

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.

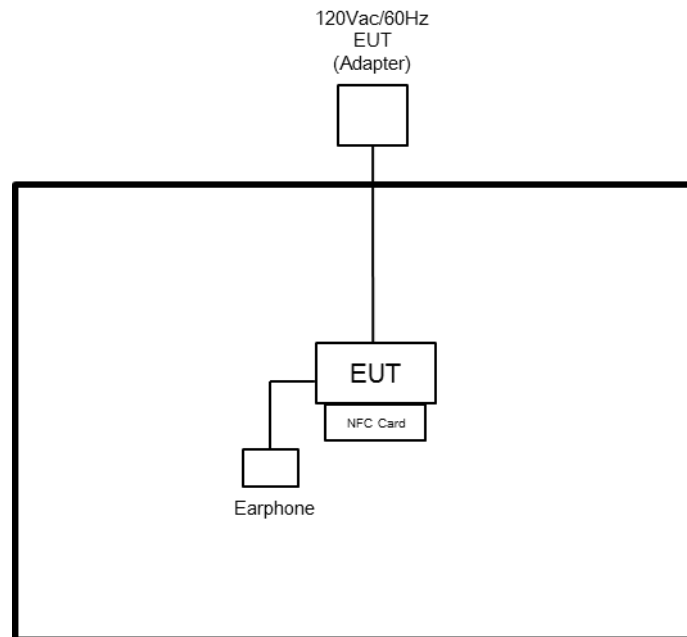
Test Items	
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions
20dB Spectrum Bandwidth	Frequency Stability
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz

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 (Y plane as worst plane) from all possible combinations.

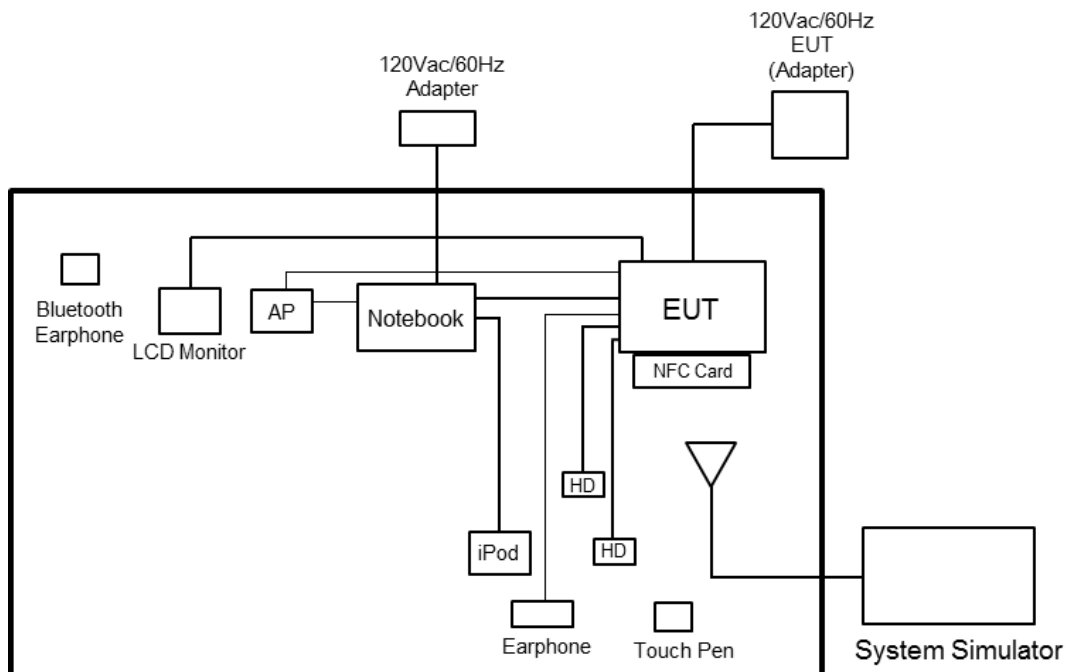
Test Cases	
AC Conducted Emission	Mode 1 : LTE Band 12 Idle + WLAN Idle + Bluetooth Idle + RFID Idle + NFC Link + AC Adapter + USB (Type C) with LCD monitor + SD Card (Data Link) (eMMC to SD Card) + RJ45 link with AP + Touch Pen + HDMI in with Notebook for Sample 4
Remark: For Radiated Test Cases, the tests were performed with Sample 2 and Sample 5	

2.2 Connection Diagram of Test System

<Radiated Emission Mode>



<AC Conducted Emission Mode>



2.3 Table for Supporting Units

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	TP-Link	ArcherC7	N/A	N/A	Unshielded, 1.8 m
4.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
5.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
6.	Notebook	DELL	Latitude E3340	FCC DoC/ Contains FCC ID: PD97260NGU	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	LCD Monitor	DELL	U2715Qt	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
8.	USB HD	Lenovo	F310S	FCC DoC	N/A	Shielded, 0.5 m
9.	NFC Card	N/A	N/A	N/A	N/A	N/A
10.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.4 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 0 cm gap to the EUT.

3. Test Results

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit of AC Conducted Emission

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 (dBμV)	
	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.

For terminal test result, the testing follows FCC KDB 174176.

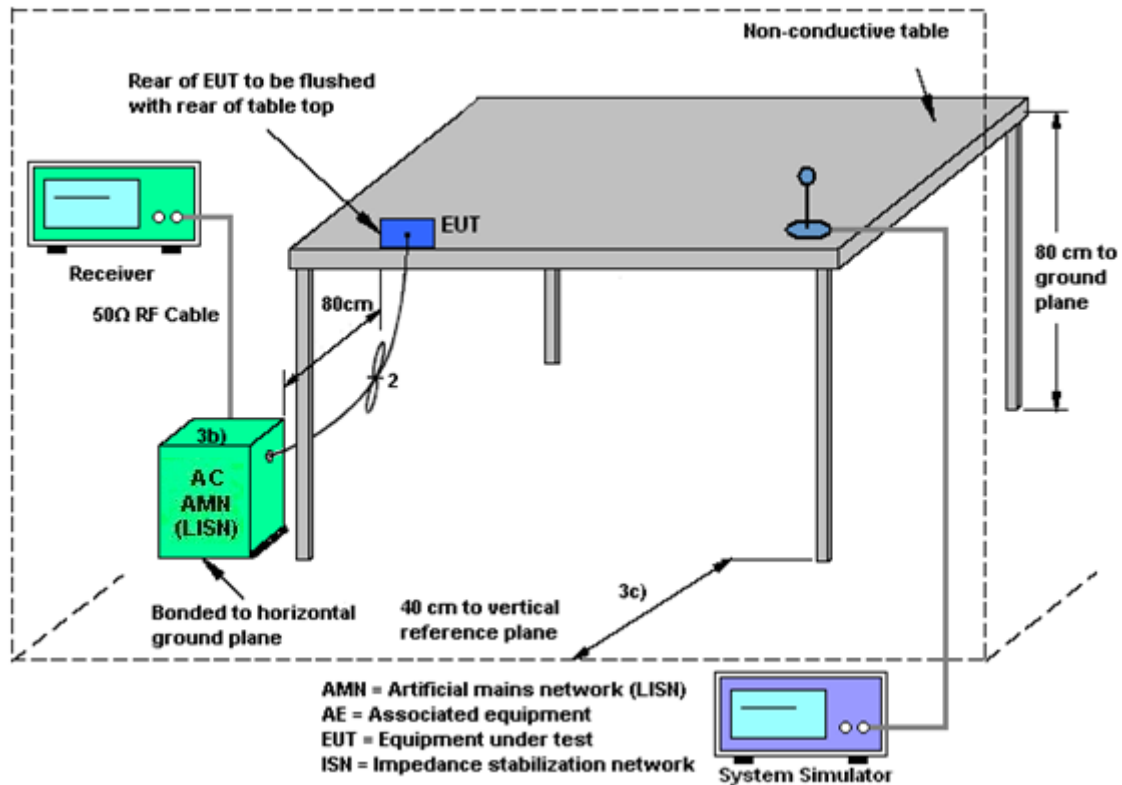
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 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 (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4 Test setup



3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

Note:

(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

(2) with dummy load

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

3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

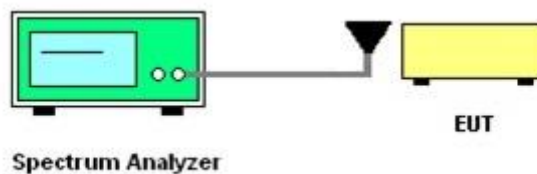
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT 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. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.

3.3 Frequency Stability Measurement

3.3.1 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.

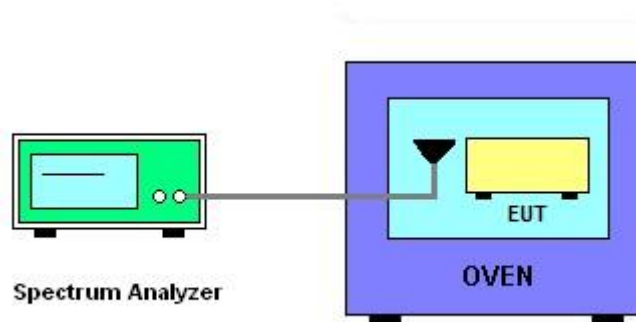
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT.
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 f_c 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.

3.3.4 Test Setup



3.3.5 Test Result of Conducted Test Items

Please refer to Appendix B.

3.4 Field Strength of Fundamental Emissions and Mask Measurement

3.4.1 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.			
Freq. of Emission (MHz)	Field Strength (μ V/m) at 30m	Field Strength (dB μ V/m) at 30m	Field Strength (dB μ V/m) at 10m	Field Strength (dB μ V/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

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

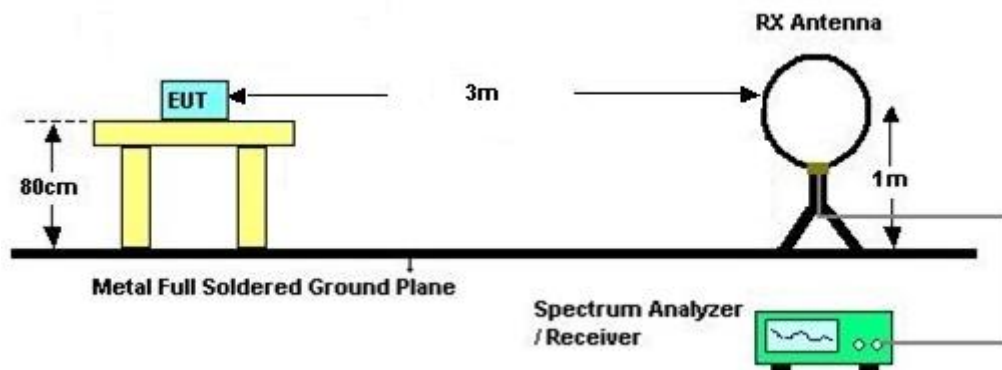
3.4.3 Test Procedures

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

3.4.4 Test Setup

For radiated emissions below 30MHz



3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.

3.5 Radiated Emissions Measurement

3.5.1 Limit

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

Frequencies (MHz)	Field Strength (μ 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

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 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

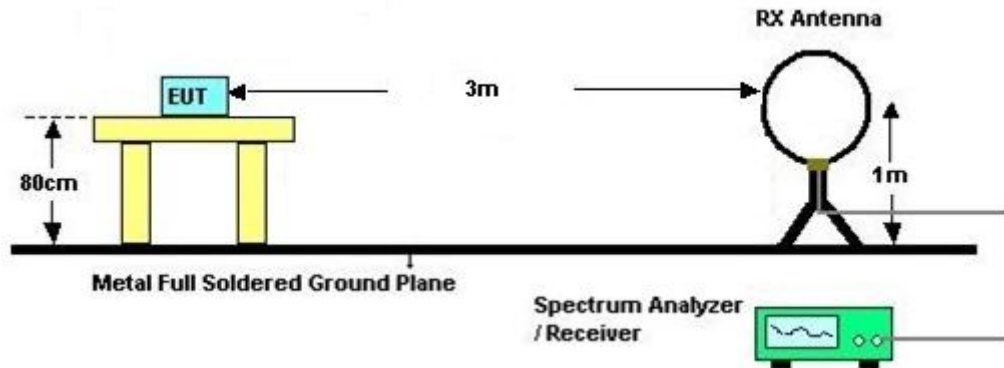
Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz and 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

3.5.4 Test Procedures

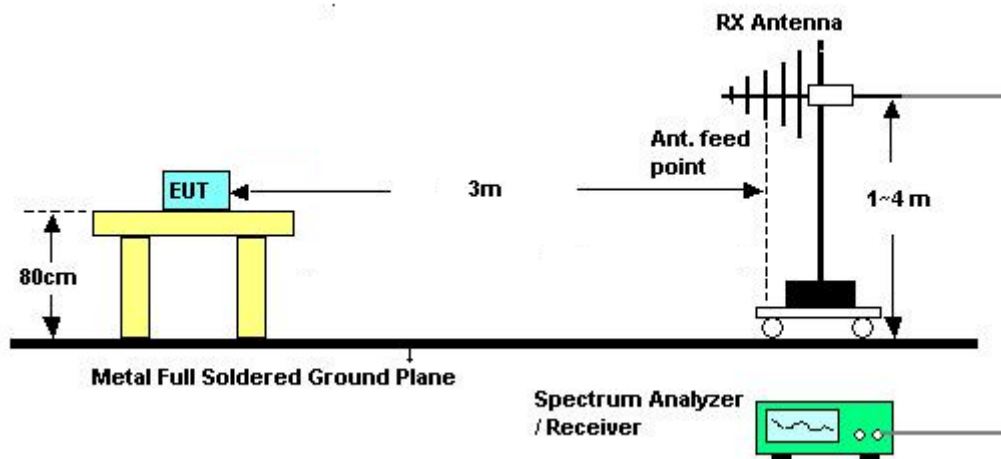
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting 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.

3.5.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

Remark: There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Apr. 21, 2018	Apr. 03, 2018	Apr. 20, 2019	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Jun. 29, 2018	Apr. 03, 2018	Jun. 28, 2019	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Dec. 06, 2017	Apr. 03, 2018	Dec. 05, 2019	Conducted (TH03-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 16, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Apr. 16, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Apr. 16, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Apr. 16, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 16, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Apr. 16, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Apr. 16, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C&N-6-06	2725&AT-N0601	30MHz~1GHz	Jan. 10, 2019	Mar. 29, 2019	Jan. 09, 2020	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY53290053	20Hz to 26.5GHz	Jan. 23, 2019	Mar. 29, 2019	Jan. 22, 2020	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 11, 2019	Mar. 29, 2019	Jan. 10, 2020	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	May 21, 2018	Mar. 29, 2019	May 20, 2019	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9KHz~30MHz	Feb. 26, 2019	Mar. 29, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 26, 2019	Mar. 29, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	80504004656H	N/A	N/A	Mar. 29, 2019	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Mar. 29, 2019	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Mar. 29, 2019	N/A	Radiation (03CH07-HY)

5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2
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Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.4
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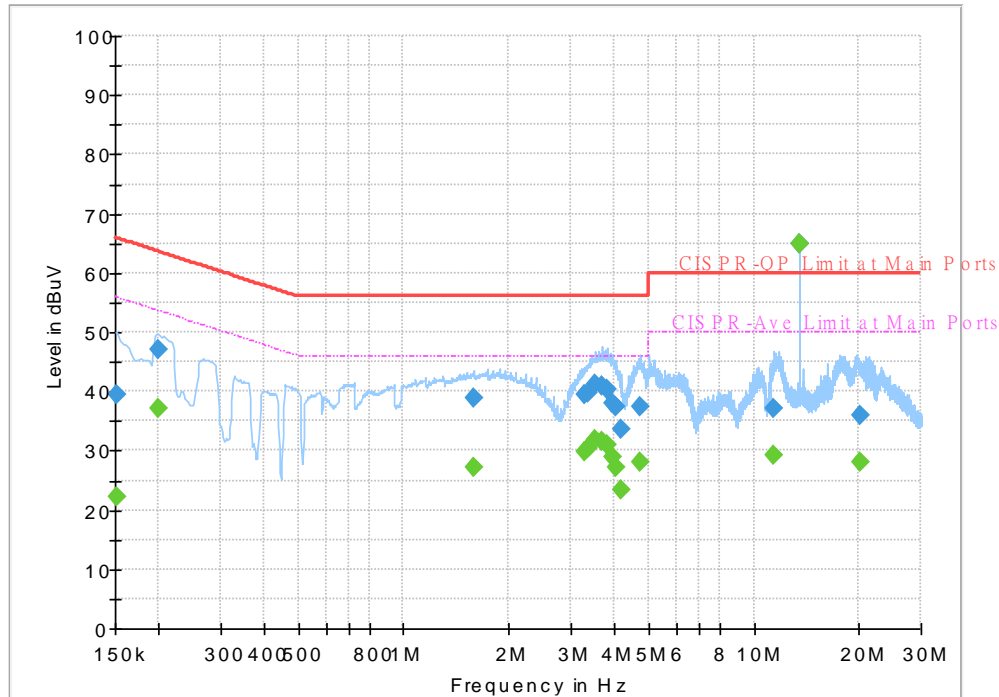
Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7
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Appendix A. Test Results of Conducted Emission Test

<Original Test Result>

Test Engineer :	Eric Jeng	Temperature :	22~25°C
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line

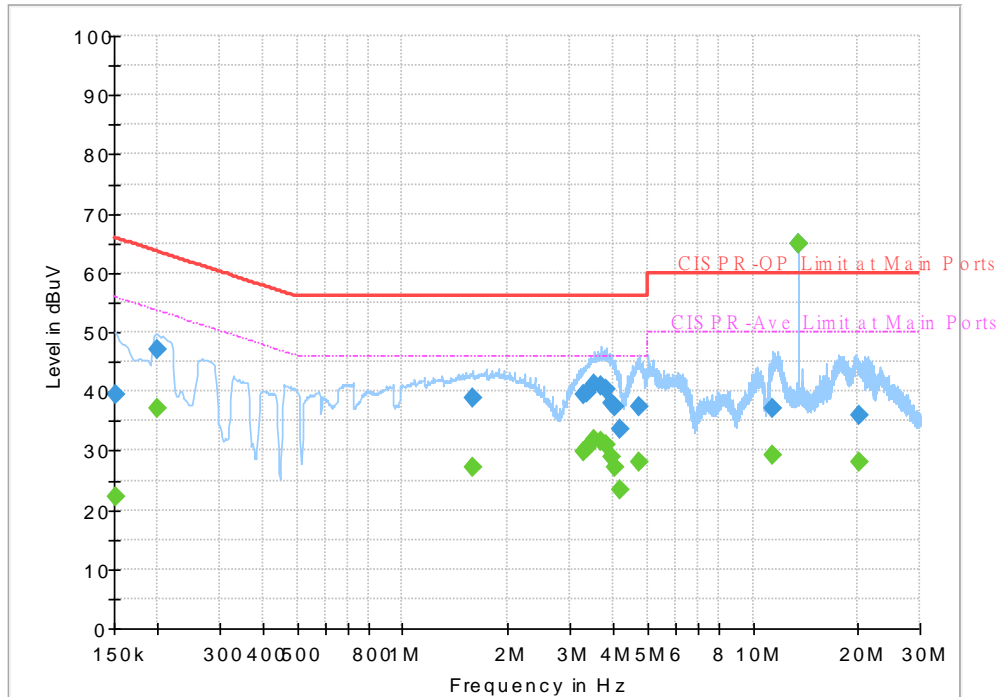


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	22.10	55.88	33.78	L1	OFF	19.5
0.152250	39.51	---	65.88	26.37	L1	OFF	19.5
0.199500	---	37.14	53.63	16.49	L1	OFF	19.5
0.199500	47.12	---	63.63	16.51	L1	OFF	19.5
1.585500	---	27.30	46.00	18.70	L1	OFF	19.6
1.585500	38.96	---	56.00	17.04	L1	OFF	19.6
3.273000	---	29.71	46.00	16.29	L1	OFF	19.6
3.273000	39.38	---	56.00	16.62	L1	OFF	19.6
3.383250	---	30.50	46.00	15.50	L1	OFF	19.6
3.383250	39.74	---	56.00	16.26	L1	OFF	19.6
3.534000	---	31.90	46.00	14.10	L1	OFF	19.6
3.534000	41.30	---	56.00	14.70	L1	OFF	19.6
3.678000	---	31.50	46.00	14.50	L1	OFF	19.6
3.678000	40.91	---	56.00	15.09	L1	OFF	19.6



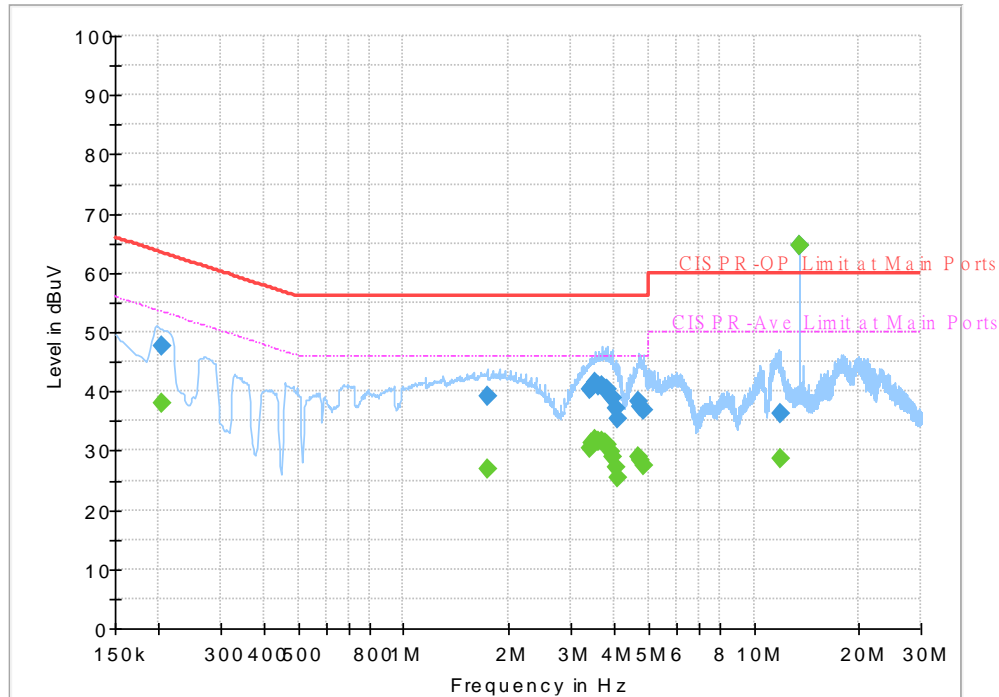
Test Engineer :	Eric Jeng	Temperature :	22~25°C
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
3.822000	---	30.89	46.00	15.11	L1	OFF	19.6
3.822000	40.25	---	56.00	15.75	L1	OFF	19.6
3.957000	---	29.04	46.00	16.96	L1	OFF	19.6
3.957000	38.11	---	56.00	17.89	L1	OFF	19.6
4.038000	---	27.20	46.00	18.80	L1	OFF	19.6
4.038000	37.45	---	56.00	18.55	L1	OFF	19.6
4.182000	---	23.46	46.00	22.54	L1	OFF	19.6
4.182000	33.58	---	56.00	22.42	L1	OFF	19.6
4.762500	---	28.15	46.00	17.85	L1	OFF	19.6
4.762500	37.48	---	56.00	18.52	L1	OFF	19.6
11.451750	---	29.31	50.00	20.69	L1	OFF	19.7
11.451750	37.16	---	60.00	22.84	L1	OFF	19.7
13.560000	---	64.82	50.00	-14.82	L1	OFF	19.7
13.560000	64.83	---	60.00	-4.83	L1	OFF	19.7
20.161500	---	28.09	50.00	21.91	L1	OFF	19.8
20.161500	35.95	---	60.00	24.05	L1	OFF	19.8



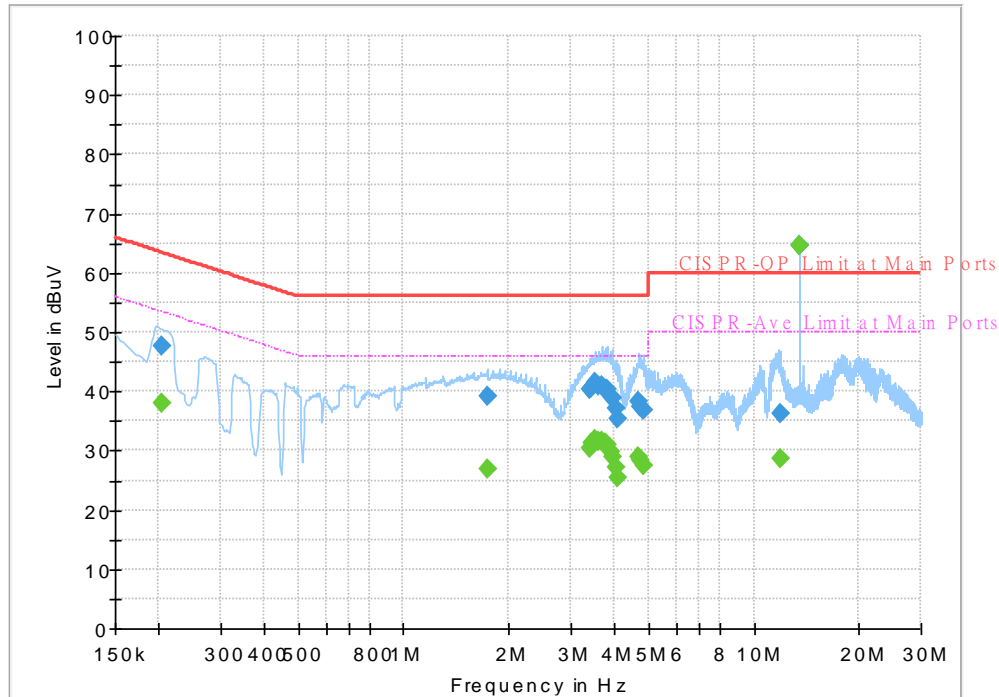
Test Engineer :	Eric Jeng	Temperature :	22~25°C
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.204000	47.67	---	63.45	15.78	N	OFF	19.5
0.204000	---	38.13	53.45	15.32	N	OFF	19.5
1.729500	39.11	---	56.00	16.89	N	OFF	19.6
1.729500	---	27.04	46.00	18.96	N	OFF	19.6
3.387750	40.33	---	56.00	15.67	N	OFF	19.6
3.387750	---	30.54	46.00	15.46	N	OFF	19.6
3.459750	40.58	---	56.00	15.42	N	OFF	19.6
3.459750	---	31.30	46.00	14.70	N	OFF	19.6
3.531750	41.38	---	56.00	14.62	N	OFF	19.6
3.531750	---	31.89	46.00	14.11	N	OFF	19.6
3.606000	40.90	---	56.00	15.10	N	OFF	19.6
3.606000	---	31.56	46.00	14.44	N	OFF	19.6
3.675750	41.04	---	56.00	14.96	N	OFF	19.6
3.675750	---	31.47	46.00	14.53	N	OFF	19.6
3.752250	40.33	---	56.00	15.67	N	OFF	19.6
3.752250	---	31.25	46.00	14.75	N	OFF	19.6



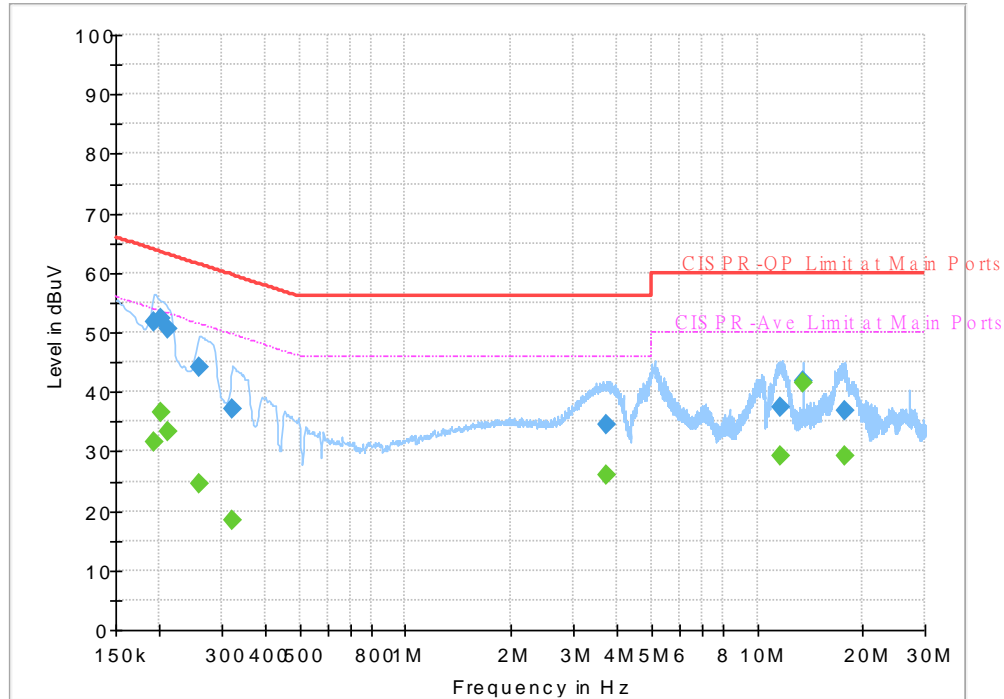
Test Engineer :	Eric Jeng	Temperature :	22~25°C
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
3.819750	40.31	---	56.00	15.69	N	OFF	19.6
3.819750	---	30.98	46.00	15.02	N	OFF	19.6
3.896250	39.17	---	56.00	16.83	N	OFF	19.6
3.896250	---	29.85	46.00	16.15	N	OFF	19.6
3.963750	38.91	---	56.00	17.09	N	OFF	19.6
3.963750	---	28.93	46.00	17.07	N	OFF	19.6
4.040250	37.22	---	56.00	18.78	N	OFF	19.6
4.040250	---	27.10	46.00	18.90	N	OFF	19.6
4.107750	35.51	---	56.00	20.49	N	OFF	19.6
4.107750	---	25.35	46.00	20.65	N	OFF	19.6
4.686000	38.38	---	56.00	17.62	N	OFF	19.6
4.686000	---	28.83	46.00	17.17	N	OFF	19.6
4.762500	37.53	---	56.00	18.47	N	OFF	19.6
4.762500	---	28.26	46.00	17.74	N	OFF	19.6
4.834500	36.76	---	56.00	19.24	N	OFF	19.6
4.834500	---	27.35	46.00	18.65	N	OFF	19.6
11.899500	36.28	---	60.00	23.72	N	OFF	19.7
11.899500	---	28.72	50.00	21.28	N	OFF	19.7
13.560000	64.67	---	60.00	-4.67	N	OFF	19.8
13.560000	---	64.65	50.00	-14.65	N	OFF	19.8

<Terminal Test Result>

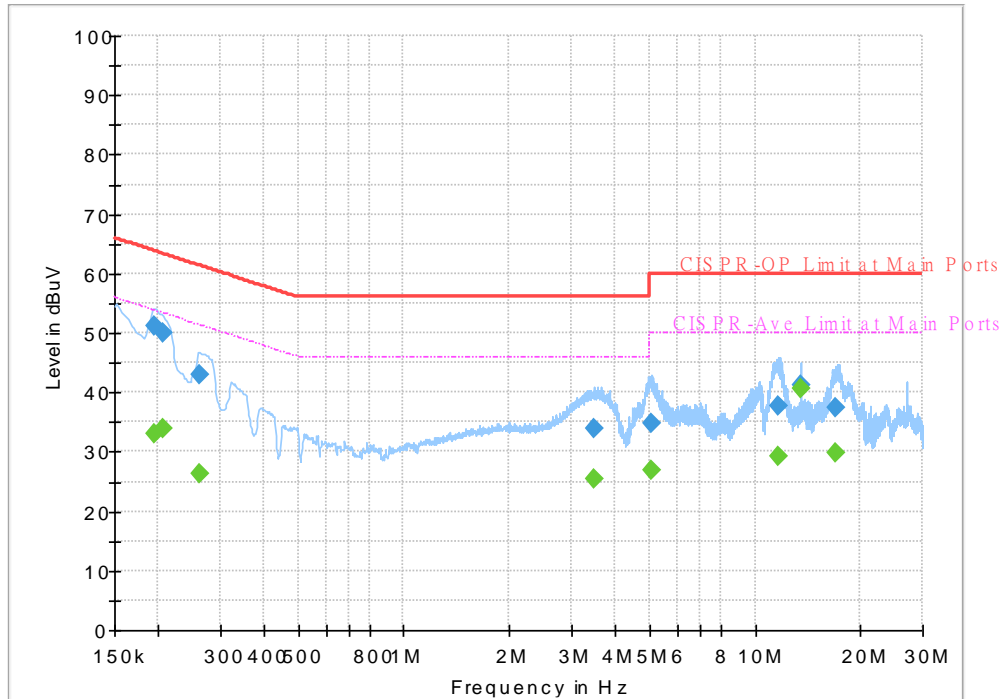
Test Engineer :	Eric Jeng	Temperature :	22~25°C
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.192750	---	31.49	53.92	22.43	L1	OFF	19.5
0.192750	51.75	---	63.92	12.17	L1	OFF	19.5
0.201750	---	36.55	53.54	16.99	L1	OFF	19.5
0.201750	52.34	---	63.54	11.20	L1	OFF	19.5
0.210750	---	33.39	53.18	19.79	L1	OFF	19.5
0.210750	50.59	---	63.18	12.59	L1	OFF	19.5
0.258000	---	24.61	51.50	26.89	L1	OFF	19.5
0.258000	44.05	---	61.50	17.45	L1	OFF	19.5
0.321000	---	18.44	49.68	31.24	L1	OFF	19.5
0.321000	37.08	---	59.68	22.60	L1	OFF	19.5
3.720750	---	26.03	46.00	19.97	L1	OFF	19.6
3.720750	34.56	---	56.00	21.44	L1	OFF	19.6
11.622750	---	29.10	50.00	20.90	L1	OFF	19.7
11.622750	37.49	---	60.00	22.51	L1	OFF	19.7
13.560000	---	41.51	50.00	8.49	L1	OFF	19.7
13.560000	41.89	---	60.00	18.11	L1	OFF	19.7
17.751750	---	29.21	50.00	20.79	L1	OFF	19.8
17.751750	36.90	---	60.00	23.10	L1	OFF	19.8



Test Engineer :	Eric Jeng	Temperature :	22~25°C
		Relative Humidity :	52~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral

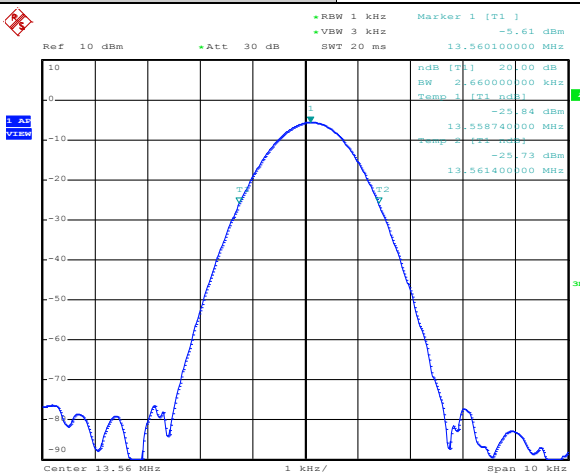
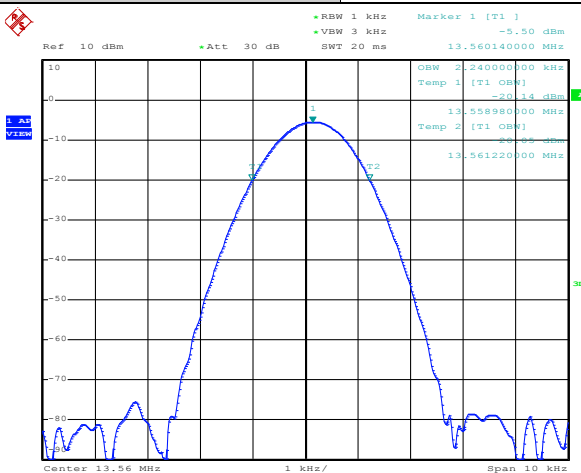
**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.195000	---	32.97	53.82	20.85	N	OFF	19.5
0.195000	51.12	---	63.82	12.70	N	OFF	19.5
0.206250	---	34.05	53.36	19.31	N	OFF	19.5
0.206250	49.89	---	63.36	13.47	N	OFF	19.5
0.262500	---	26.32	51.35	25.03	N	OFF	19.5
0.262500	43.03	---	61.35	18.32	N	OFF	19.5
3.498000	---	25.55	46.00	20.45	N	OFF	19.6
3.498000	33.85	---	56.00	22.15	N	OFF	19.6
5.100000	---	26.83	50.00	23.17	N	OFF	19.6
5.100000	34.93	---	60.00	25.07	N	OFF	19.6
11.622750	---	29.14	50.00	20.86	N	OFF	19.7
11.622750	37.61	---	60.00	22.39	N	OFF	19.7
13.560000	---	40.74	50.00	9.26	N	OFF	19.8
13.560000	41.23	---	60.00	18.77	N	OFF	19.8
17.045250	---	29.90	50.00	20.10	N	OFF	19.8
17.045250	37.38	---	60.00	22.62	N	OFF	19.8



Appendix B. Test Results of Conducted Test Items

B1. Test Result of 20dB Spectrum Bandwidth

Test mode		NFC Tx		Test Frequency (MHz)		13.56	
				Date: 3.APR.2019 09:51:56		Date: 3.APR.2019 09:45:35	
20dB Bandwidth (kHz)		2.660		99% OccupiedBW(kHz)		2.240	
Frequency range (MHz)		f _L > 13.553		13.55874		Test Result	
		f _H < 13.567		13.56140		Complies	

Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

**B2. Test Result of Frequency Stability**

B3. Voltage vs. Frequency Stability		Temperature vs. Frequency Stability		
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Time	Measurement Frequency (MHz)
120	13.560070	-20	0	13.560120
102	13.560080		2	13.560120
138	13.560080		5	13.560120
			10	13.560130
		-10	0	13.560140
			2	13.560160
			5	13.560160
			10	13.560160
		0	0	13.560160
			2	13.560160
			5	13.560160
			10	13.559940
		10	0	13.560160
			2	13.560160
			5	13.560160
			10	13.560160
		20	0	13.560070
			2	13.560080
			5	13.560080
			10	13.560080
		30	0	13.560140
			2	13.560140
			5	13.560140
			10	13.560140
		40	0	13.560120
			2	13.560120
			5	13.560120
			10	13.560120

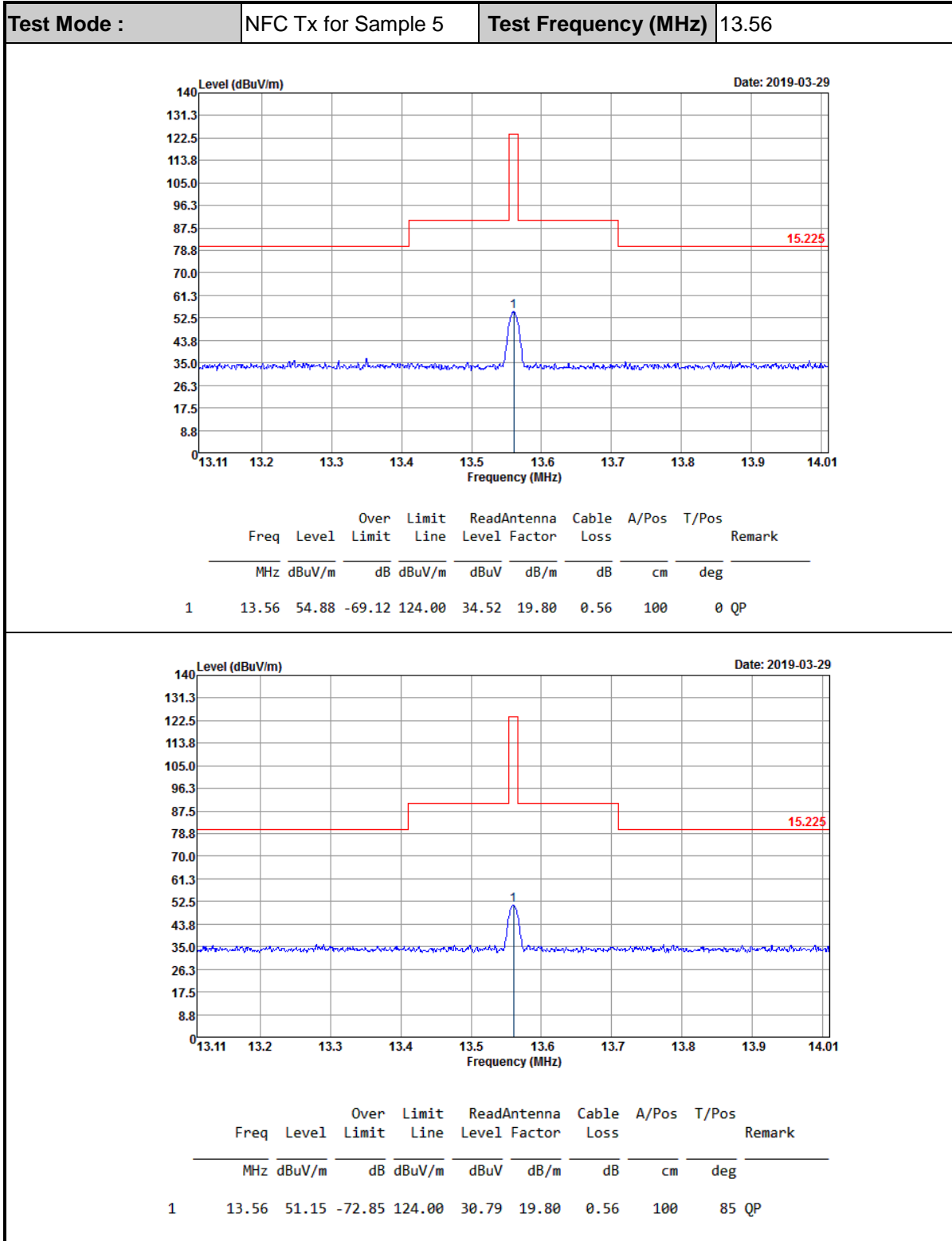


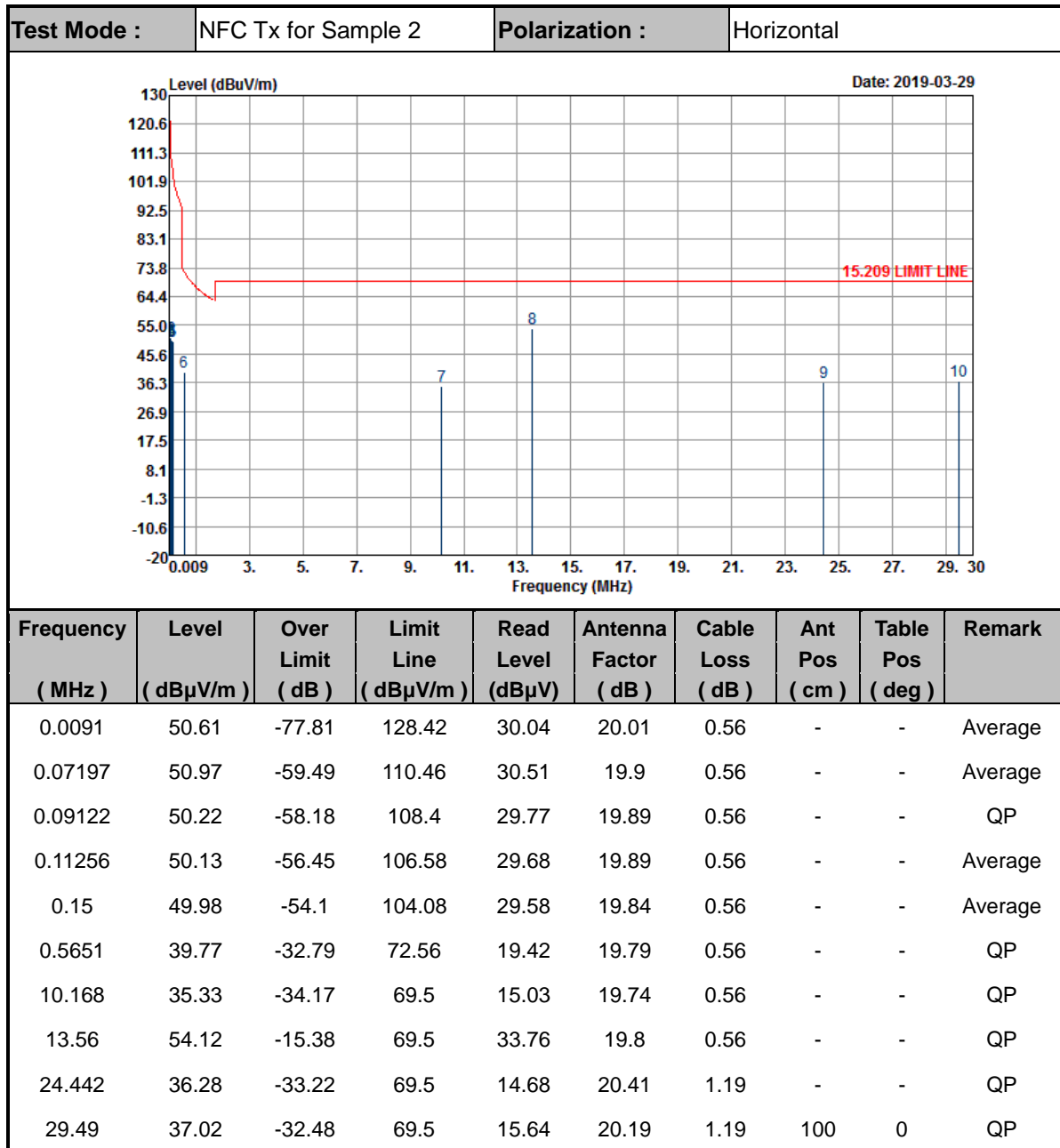
Voltage vs. Frequency Stability		Temperature vs. Frequency Stability		
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Time	Measurement Frequency (MHz)
		50	0	13.560080
			2	13.560080
			5	13.560080
			10	13.560080
Max.Deviation (MHz)	0.000080	Max.Deviation (MHz)		0.000160
Max.Deviation (ppm)	5.8997	Max.Deviation (ppm)		11.7994
Limit	FS < ±100 ppm	Limit		FS < ±100 ppm
Test Result	PASS	Test Result		PASS

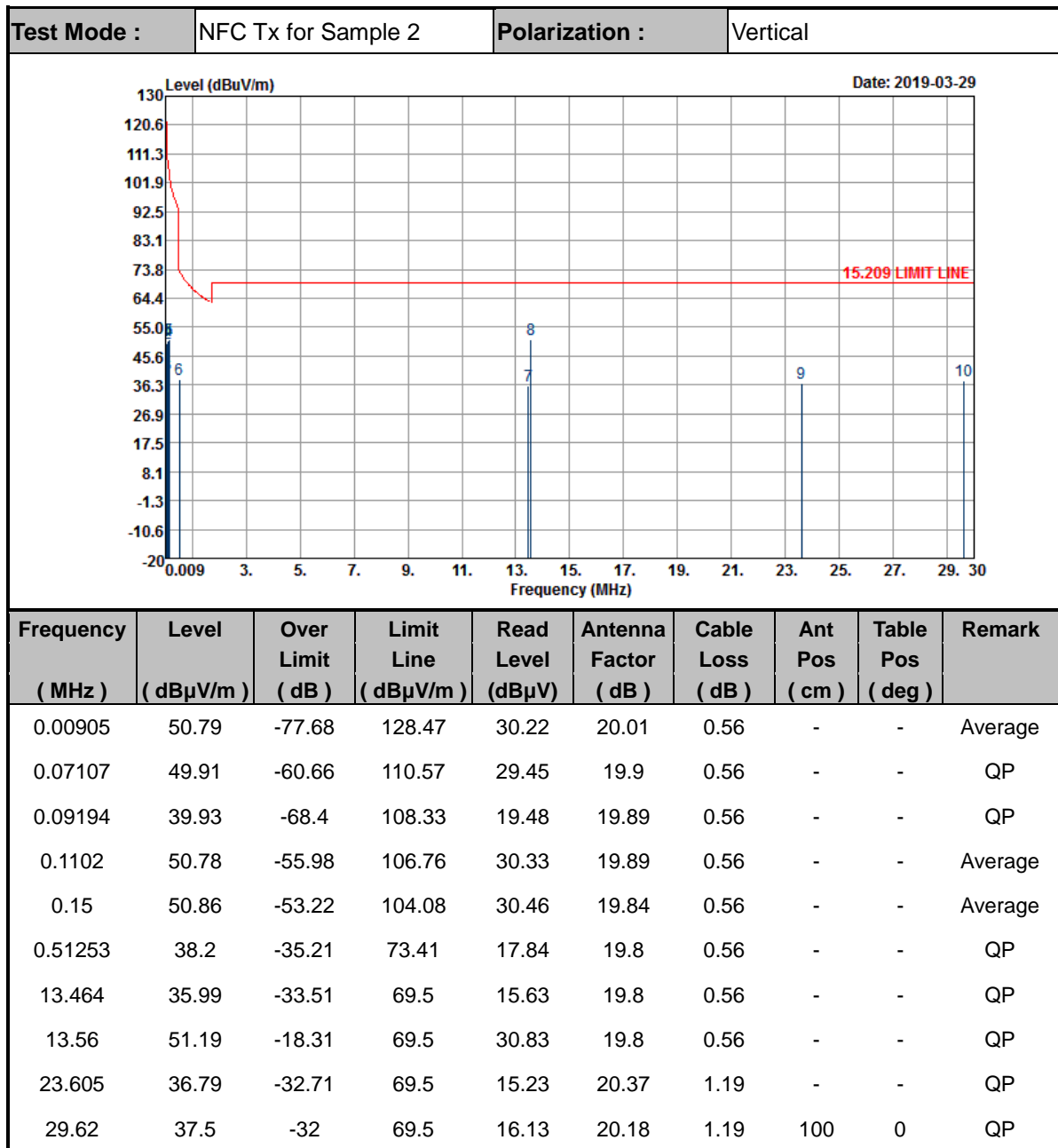
Appendix C. Test Results of Radiated Test Items

C1. Test Result of Field Strength of Fundamental Emissions

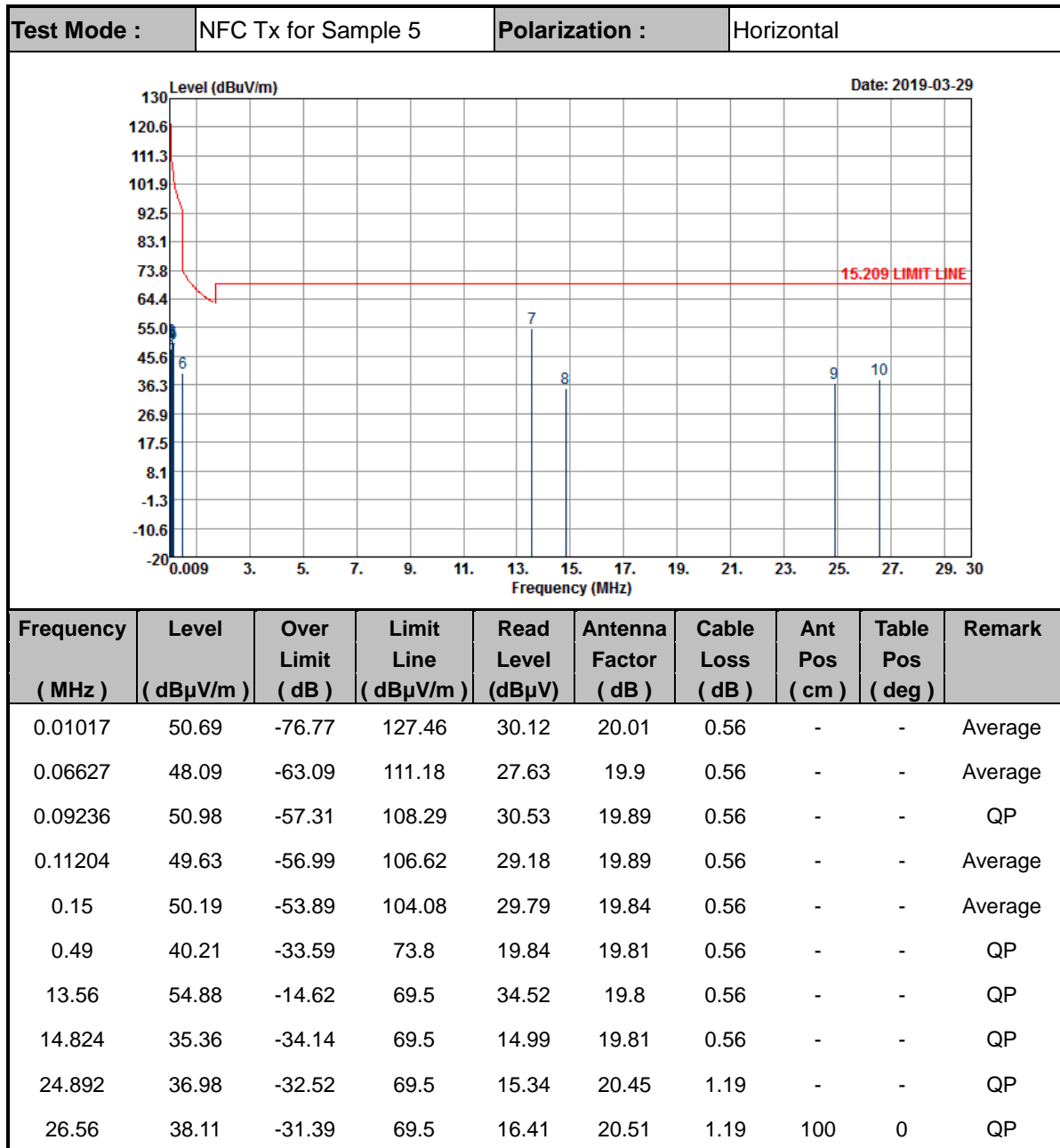
Test Mode :		NFC Tx for Sample 2		Test Frequency (MHz)		13.56	
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>140</div><div>131.3</div><div>122.5</div><div>113.8</div><div>105.0</div><div>96.3</div><div>87.5</div><div>78.8</div><div>70.0</div><div>61.3</div><div>52.5</div><div>43.8</div><div>35.0</div><div>26.3</div><div>17.5</div><div>8.8</div><div>0</div></div></div><div><div><div><div><div>13.11</div><div>13.2</div><div>13.3</div><div>13.4</div><div>13.5</div><div>13.6</div><div>13.7</div><div>13.8</div><div>13.9</div><div>14.01</div></div></div><div>Frequency (MHz)</div></div></div><div><div><div><div><div><div>15.225</div></div></div><div><div><div>1</div></div></div></div><div><div><div><div><div><div>122.5</div><div>87.5</div><div>78.8</div></div></div><div><div><div>13.56</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>13.56</div><div>54.12</div></div></div><div><div><div>13.56</div><div>54.12</div></div></div></div></div><div><div><div><div><div><div>1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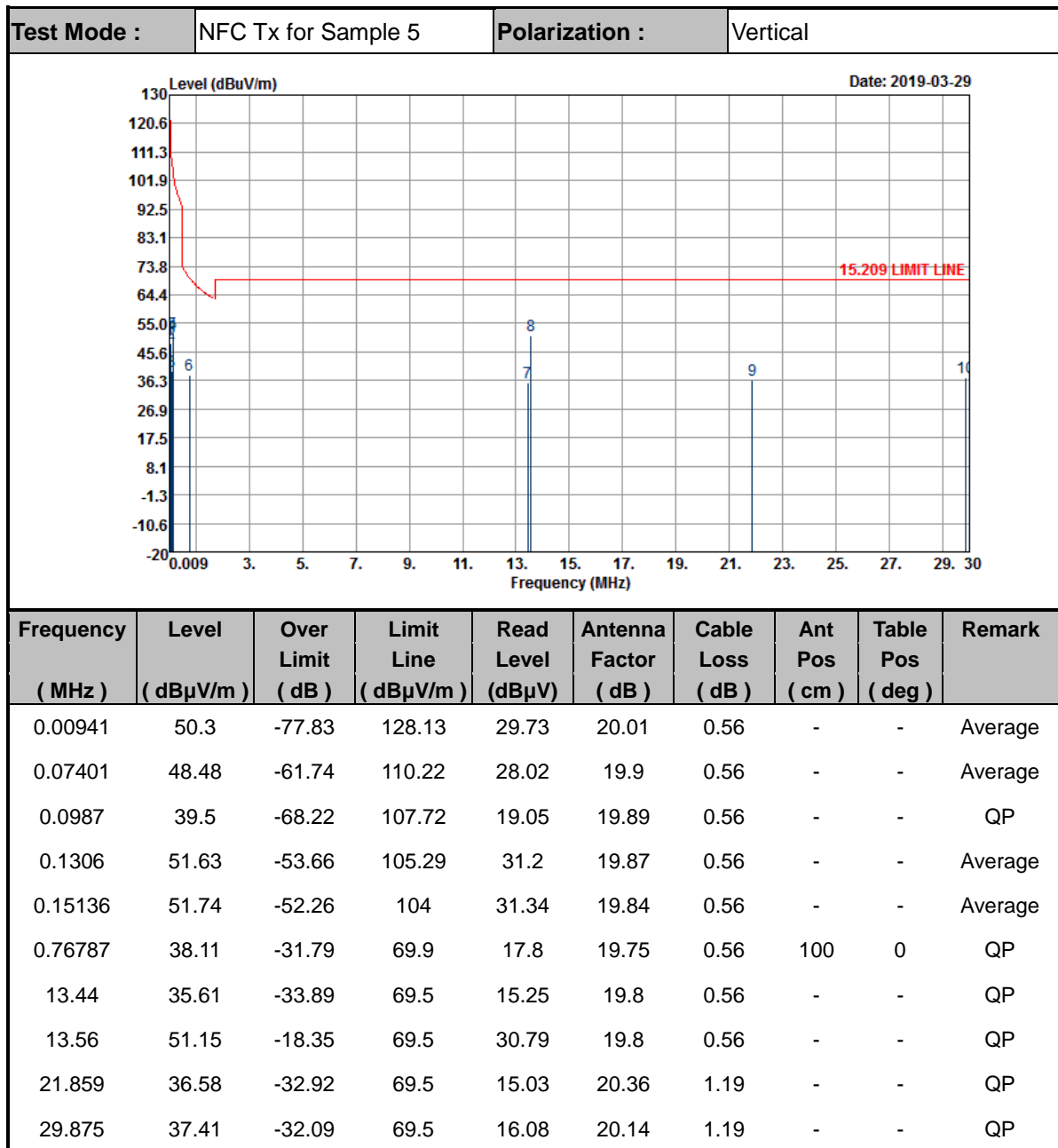


C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)


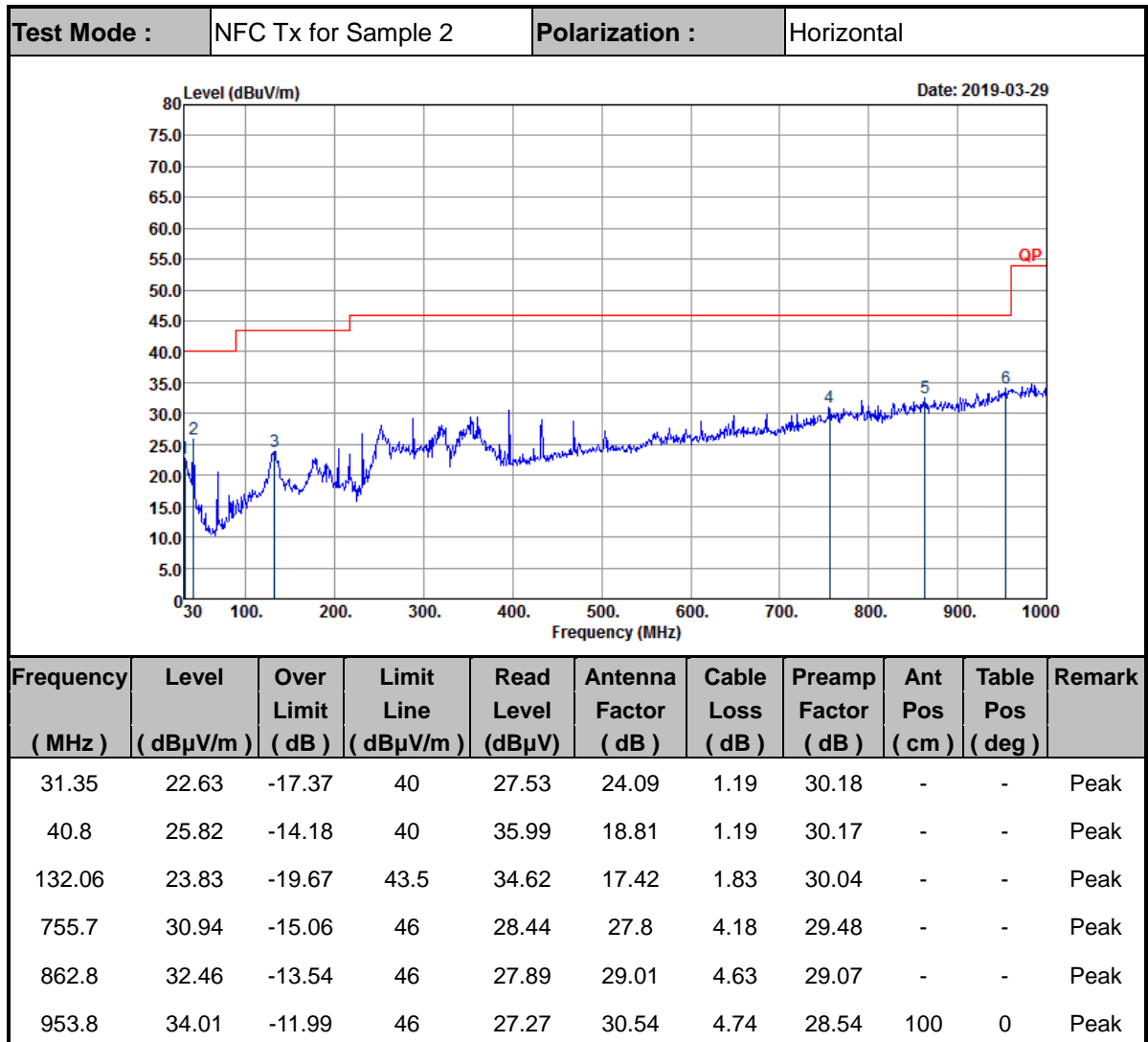

Note:

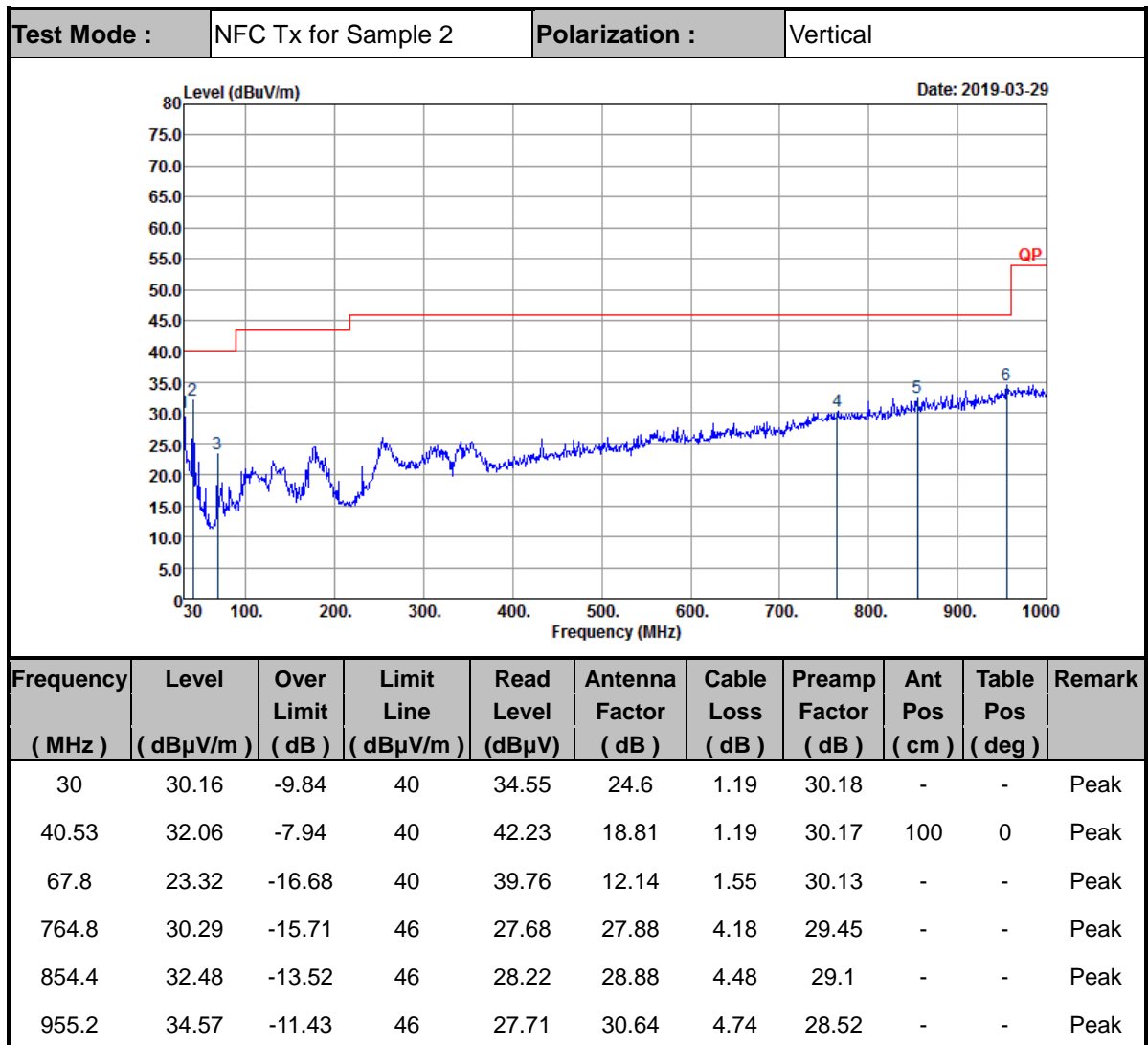
1. 13.56 MHz is fundamental signal which can be ignored.
2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
3. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
4. Limit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



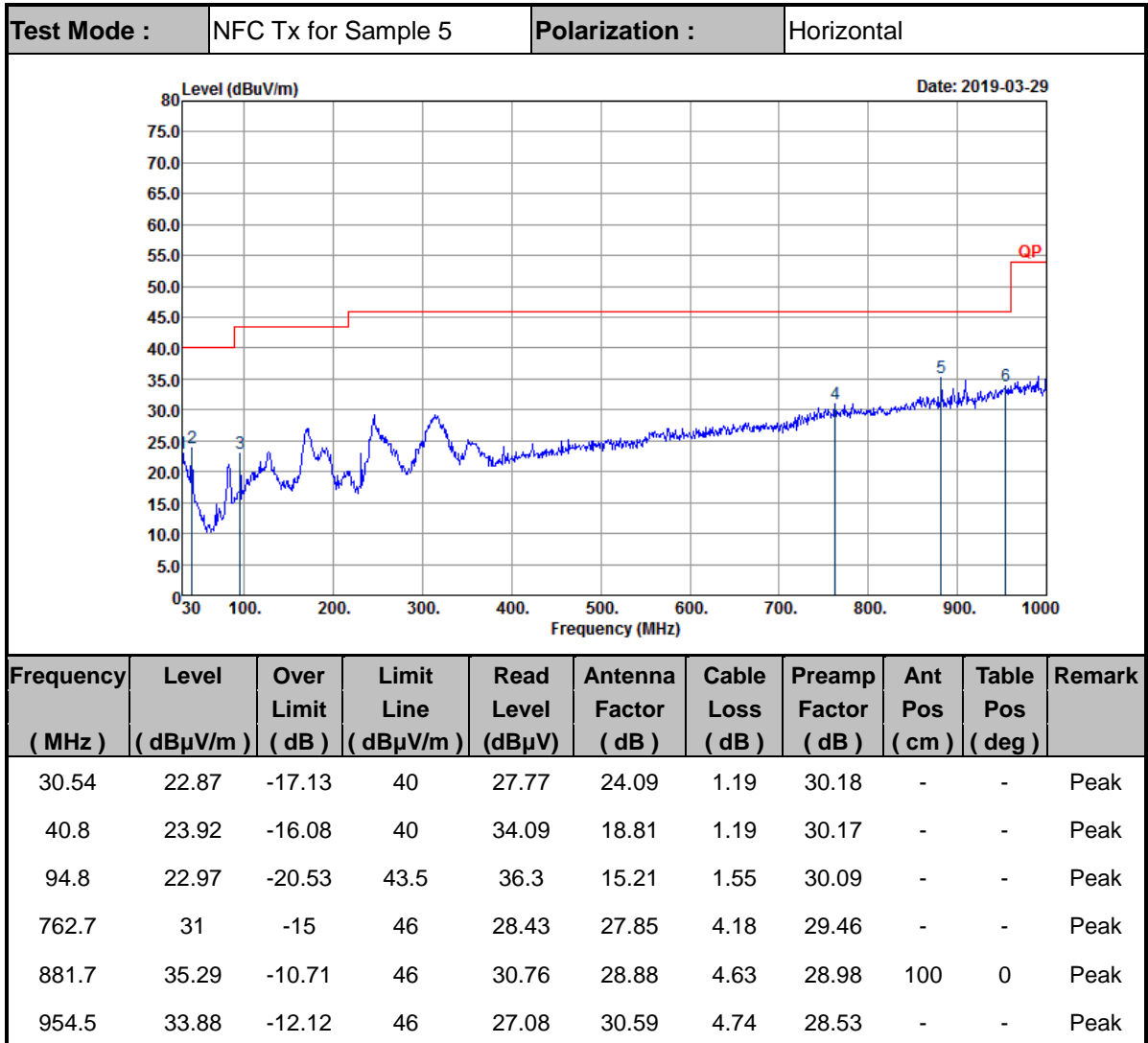

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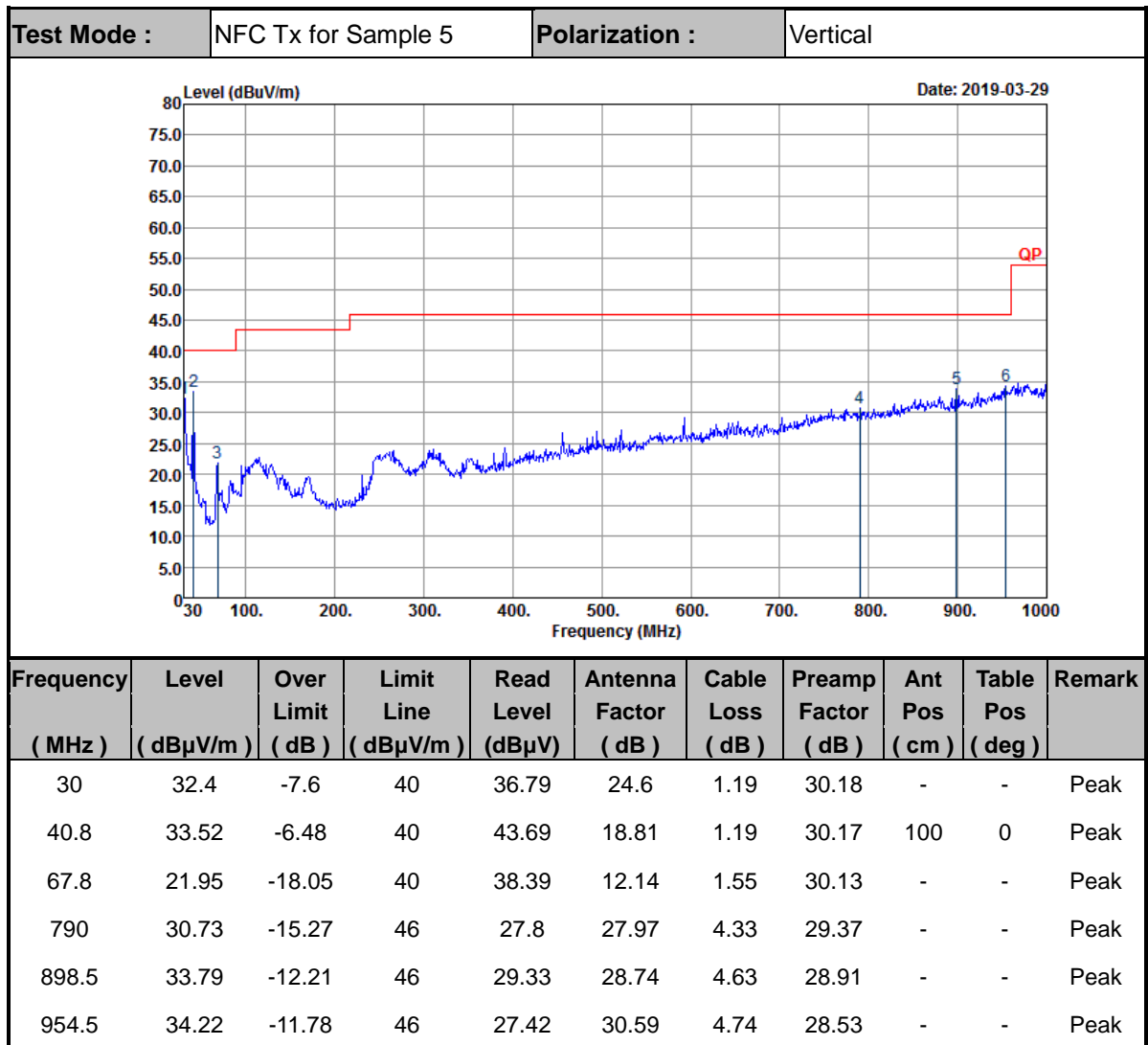
1. 13.56 MHz is fundamental signal which can be ignored.
2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
3. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
4. Limit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

C3. Results of Radiated Spurious 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 (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.