



Report No.: FR2D2704D

FCC RADIO TEST REPORT

FCC ID : UZ7WLMT0

Equipment : Touch Computer

Brand Name : Zebra **Model Name** : WLMT0

: Zebra Technologies Corporation **Applicant**

1 Zebra Plaza, Holtsville, NY 11742

: Zebra Technologies Corporation Manufacturer

1 Zebra Plaza, Holtsville, NY 11742

Standard : FCC Part 15 Subpart C §15.225

The product was received on Jan. 18, 2023 and testing was performed from Feb. 02, 2023 to Feb. 14, 2023. We, Sporton International Inc. Wensan 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 test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

TEL: 886-3-327-0868 Page Number FAX: 886-3-327-0855 Issue Date : Mar. 03, 2023 Report Version

Report Template No.: BU5-FR15CNFC Version 2.4

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History of this test report

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Report No.	Version	Description	Issue Date
FR2D2704D	01	Initial issue of report	Mar. 03, 2023

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.207	AC Power Line Conducted Emissions	Pass	21.40 dB under the limit at 0.190MHz
3.2	15.215(c)	20dB Spectrum Bandwidth	Pass	-
3.2	2.1049	99% OBW Spectrum Bandwidth	Reporting only	-
3.3	15.225(e)	.225(e) Frequency Stability		-
3.4	.4 15.225(a)(b)(c) Field Strength of Fundamental Emissions		Pass	Max level 24.53 dBµV/m at 13.560 MHz
3.5 15.225(d) Radiated Spurious Emission		Radiated Spurious Emissions	Pass	4.09 dB under the limit at 40.680MHz
3.6	15.203	203 Antenna Requirements		-

Declaration of Conformity:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
 It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- 2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng Report Producer: Doris Chen

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1. General Description

1.1 Product Feature of Equipment Under Test

	Product Feature
Equipment	Touch Computer
Brand Name	Zebra
Model Name	WLMT0
FCC ID	UZ7WLMT0
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
Sample 1	Scanner (SE4710)
Sample 2	Scanner (SE5500)
HW Version	DV
SW Version	13-08-06.00-TG-UOO-PRD-ATH-04
FW Version	FUSION_QA_4_1.0.0.010_T
MFD	06FEB23
EUT Stage	Identical Prototype

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

Specification of Accessories				
Battery 1 Standard Battery (3800mAh)	Brand Name	Zebra	Model Number	BT-000473

Supported I	Supported Unit Used in Test Configuration and System				
Battery 2 Standard BLE Beacon Battery (3800mAh)	Brand Name	Zebra	Model Number	BT-000473B	
Battery 3 Extended Battery (5200mAh)	Brand Name	Zebra	Model Number	BT-000473E	
Adapter 1 Cigarette Lighter Adapter	Brand Name	Zebra	Part Number	CHG-AUTO-USB1-01	
Adapter 2 USB Wall Charger	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US	
Earphone 1 3.5mm PTT Headset	Brand Name	Zebra	Part Number	HDST-35MM-PTT1-01	
Earphone 2 USB-C Audio Headset	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01	
USB Cable (Type C to Type A)	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01	
Type C-Audio Cable (Type C to 3.5mm)	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01	

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1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard			
Tx/Rx Frequency Range 13.553 ~ 13.567MHz			
Channel Number 1			
20dBW	2.64 KHz		
99%OBW	2.24 KHz		
Antenna Type	Coil Antenna		
Type of Modulation	ASK		

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Remark: The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

No modifications made to the EUT during the testing.

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1.4 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory				
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855				
Test Site No.		Sporton Site No.	Site No.		
rest site No.	TH05-HY	CO07-HY	03CH11-HY		
Test Engineer	Eric Wu and Hank Chen	Louis Chung	Yuan Lee		
Temperature	20.9~22.9°C 20.2~23.4°C 20.1~20.4				
Relative Humidity	46.7~48.7% 55.6~71.3% 57.6~68.4%				

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

FCC designation No.: TW3786

1.5 Applicable Standards

According to the specifications declared by 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

Remark:

- 1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.
- 3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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

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The EUT pre-scanned in reader mode with NFC tag (four NFC type A, B, F, V) and without reading tag. Based on the highest field strength of fundamental and spurious emissions, the worst case type (type F) was recorded in this report.

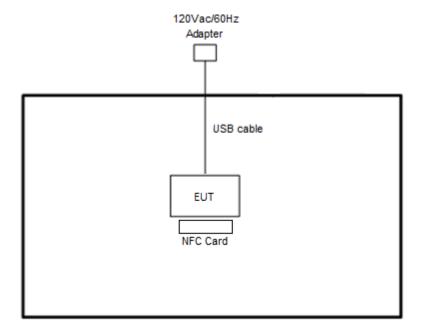
The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

	Test Cases						
AC Conducted Emission	Mode 1: NFC Link + Camera (Rear) + Battery 1 + USB Cable (Charging with Adapter 2) for Sample 1						
Remark: For Radiated Test Cases, the tests were performed with Adapter 2							

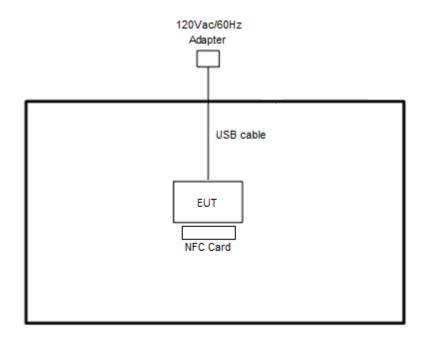
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2.2 Connection Diagram of Test System

<AC Conducted Emission Mode>



<NFC Tx Mode>



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2.3 Table for Supporting Units

lt	em	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1	١.	NFC Card	N/A	N/A	N/A	N/A	N/A

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2.4 EUT Operation Test Setup

The EUT is programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmitting signal (Power Level: Default) at 13.56MHz and is placed around 3 cm gap to the EUT.

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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.

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Frequency of Emission	Conducted I	Limit (dΒμV)
(MHz)	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

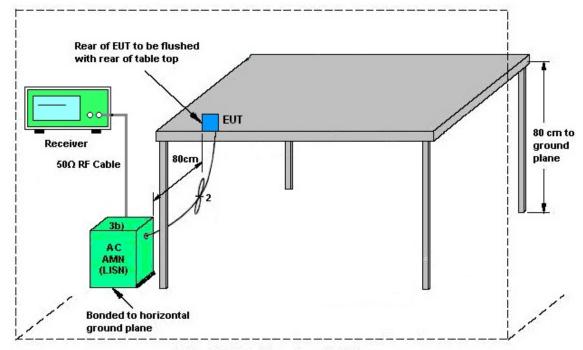
Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

- 1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
- 6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
- 7. The frequency range from 150 kHz to 30 MHz is scanned.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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3.1.4 Test setup



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AMN = Artificial mains network (LISN) AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

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.

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3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

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

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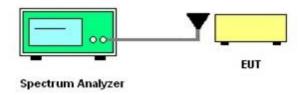
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

- 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 20 dB below carrier.
- 4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Near Field Test Items

Please refer to Appendix B.

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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 by using a new battery.

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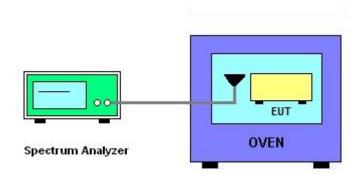
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT.
- 2. EUT has 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 $(fc-f)/fc \times 10^6$ 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 Near Field Test Items

Please refer to Appendix B.

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3.4 Field Strength of Fundamental Emissions and Mask Measurement

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3.4.1 Limit

Rules and specifications		FCC CFR 47 Part	15 section 15.225	
Description	Compliance with th	e spectrum mask is t	ested with RBW set t	o 9kHz.
Freq. of Emission (MHz)	Field Strength	Field Strength	Field Strength	Field Strength
	(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

Remark:

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

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^{1.} The field strength test result is in 3m test distance, follow test rules the test data use distance extrapolation factor and reported in this report at 30m test result.

^{2.} Distance extrapolation factor = 40 log (specific distance / test distance) (dB)

3.4.3 Test Procedures

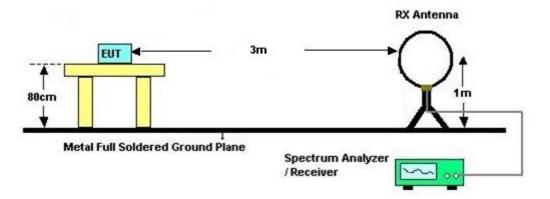
Configure the EUT according to ANSI C63.10. The EUT is placed on the top of the turntable 0.8
meter above ground. The phase center of the loop receiving antenna mounted antenna tower is
placed 3 meters far away from the turntable.

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- Power on the EUT and all the supporting units. The turntable is rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the receiving antenna is 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.
- Compliance with the spectrum mask is tested with RBW set to 9 kHz.
 Note: Emission level (dBμV/m) = 20 log Emission level (μV/m).

3.4.4 Test Setup

For radiated test below 30MHz



3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.

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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.

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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

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in 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.

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3.5.4 Test Procedures

Configure the EUT according to ANSI C63.10. The EUT is 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 is placed 3 meters far away from the turntable.

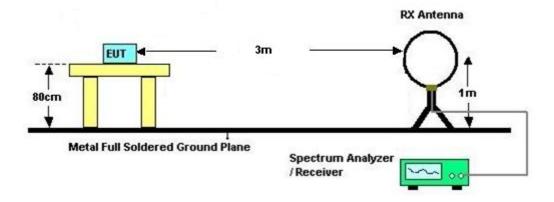
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- Power on the EUT and all the supporting units. The turntable is rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna is varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower is scanned (from 1 M to 4 M) and then the turntable is 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.
- In case the emission is lower than 30 MHz, loop antenna has to be used for measurement and the recorded data shall be QP measured by receiver.
- 8. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".

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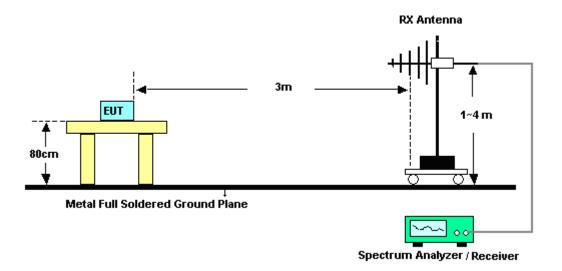
3.5.5 Test Setup

For radiated test below 30MHz



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For radiated test above 30MHz



3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

Remark: There is adequate comparison measurement 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.

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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.

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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.

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4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 08, 2022	Feb. 02, 2023	Oct. 07, 2023	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Feb. 02, 2023	Sep. 19, 2023	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 09, 2022	Feb. 02, 2023	Dec. 08, 2023	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 07, 2022	Feb. 02, 2023	Oct. 06, 2023	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Aug. 18, 2022	Feb. 02, 2023	Aug. 17, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 10, 2022	Feb. 02, 2023	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Feb. 02, 2023	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30MHz~18GHz	Mar. 10, 2022	Feb. 02, 2023	Mar. 09, 2023	Radiation (03CH11-HY)
Filter	Wainwright	WHK20/1000C7 /40SS	SN2	20M High Pass	Sep. 12, 2022	Feb. 02, 2023	Sep. 11, 2023	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 02, 2023	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Feb. 02, 2023	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Feb. 02, 2023	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Feb. 02, 2023	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 07, 2022	Feb. 02, 2023	Nov. 06, 2023	Radiation (03CH11-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	Sep. 16, 2022	Feb. 08, 2023	Sep. 15, 2023	Near Field (TH05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 18, 2022	Feb. 08, 2023	Mar. 17, 2023	Near Field (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 27, 2022	Feb. 08, 2023	Sep. 26, 2023	Near Field (TH05-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	LHU-113	1012005860	-20°C~85°C	Dec. 05, 2022	Feb. 08, 2023	Dec. 04, 2023	Near Field (TH05-HY)
Nearby field probe	LANGER EMV-TECHNIK	LF-U5	02-559	100 kHz up to 50 MHz	Apr. 04, 2022	Feb. 08, 2023	Apr. 03, 2023	Near Field (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Feb. 14, 2023	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Feb. 14, 2023	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Nov. 01, 2022	Feb. 14, 2023	Oct. 31, 2023	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 16, 2022	Feb. 14, 2023	Mar. 15, 2023	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Feb. 16, 2022	Feb. 14, 2023	Feb. 15, 2023	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 04, 2022	Feb. 14, 2023	Mar. 03, 2023	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI7	100724	9kHz~7GHz	Feb. 24, 2022	Feb. 14, 2023	Feb. 23, 2023	Conduction (CO07-HY)

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	3.46 dB
of 95% (U = 2Uc(y))	

Report No.: FR2D2704D

<u>Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of Confidence	3.90 dB
of 95% (U = 2Uc(y))	3.90 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

of 95% (U = 2Uc(y))	Measuring Uncertainty for a Level of Confidence of 95% (II = 2Uc(v))	6.30 dB
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Appendix A. Test Results of Conducted Emission Test

Test Engineer : Louis Chung	Temperature :	20.2~23.4℃
	Louis Chang	Relative Humidity :

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<Original>

EUT Information

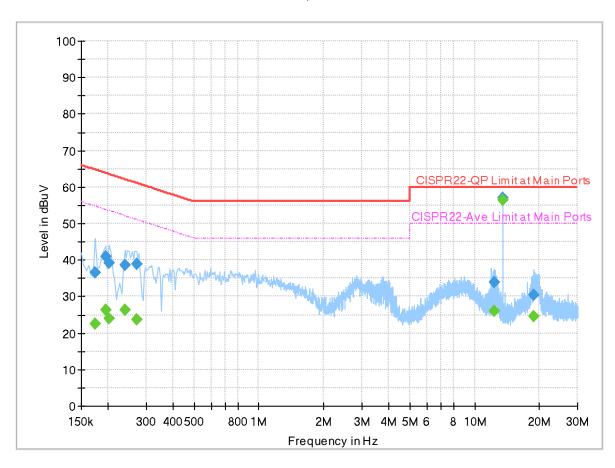
 Report NO :
 2D2704

 Test Mode :
 Mode 1

 Test Voltage :
 120Vac/60Hz

Phase: Line

Full Spectrum

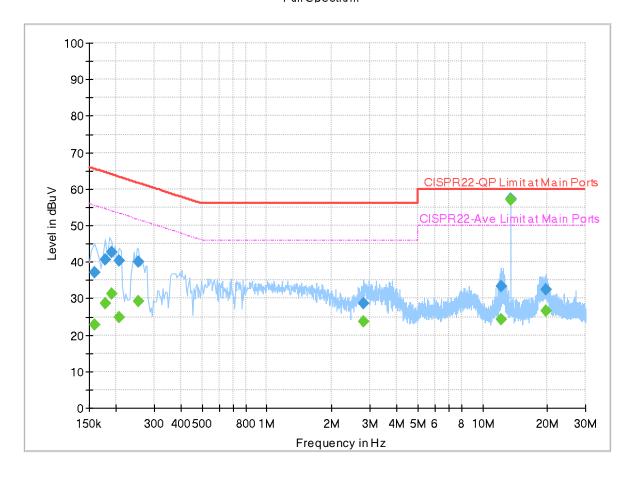


Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.174000		22.61	54.77	32.16	L1	OFF	20.0
0.174000	36.45	-	64.77	28.32	L1	OFF	20.0
0.194000		26.43	53.86	27.43	L1	OFF	20.0
0.194000	41.03		63.86	22.83	L1	OFF	20.0
0.202000		24.06	53.53	29.47	L1	OFF	20.0
0.202000	39.17		63.53	24.36	L1	OFF	20.0
0.238000		26.17	52.17	26.00	L1	OFF	20.0
0.238000	38.53	-	62.17	23.64	L1	OFF	20.0
0.270000		23.63	51.12	27.49	L1	OFF	20.0
0.270000	38.86	-	61.12	22.26	L1	OFF	20.0
12.338000		25.92	50.00	24.08	L1	OFF	20.2
12.338000	33.97		60.00	26.03	L1	OFF	20.2
13.562000		56.50	50.00	-6.50	L1	OFF	20.2
13.562000	56.96		60.00	3.04	L1	OFF	20.2
18.778000		24.53	50.00	25.47	L1	OFF	20.2
18.778000	30.48		60.00	29.52	L1	OFF	20.2

EUT Information

Report NO: 2D2704
Test Mode: Mode 1
Test Voltage: 120Vac/60Hz
Phase: Neutral

Full Spectrum



Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.158000	(uzur)	22.86	55.57	32.71	N	OFF	20.0
0.158000	37.11		65.57	28.46	N	OFF	20.0
0.178000		28.66	54.58	25.92	N	OFF	20.0
0.178000	40.69		64.58	23.89	N	OFF	20.0
0.190000		31.32	54.04	22.72	N	OFF	20.0
0.190000	42.64		64.04	21.40	N	OFF	20.0
0.206000	-	24.87	53.37	28.50	N	OFF	20.0
0.206000	40.35	-	63.37	23.02	N	OFF	20.0
0.254000		29.35	51.63	22.28	N	OFF	20.0
0.254000	40.06		61.63	21.57	N	OFF	20.0
2.806000		23.71	46.00	22.29	N	OFF	20.0
2.806000	28.64		56.00	27.36	N	OFF	20.0
12.254000		24.29	50.00	25.71	N	OFF	20.2
12.254000	33.26		60.00	26.74	N	OFF	20.2
13.562000	-	56.97	50.00	-6.97	N	OFF	20.2
13.562000	57.38	-	60.00	2.62	N	OFF	20.2
19.718000		26.72	50.00	23.28	N	OFF	20.3
19.718000	32.32		60.00	27.68	N	OFF	20.3

<Terminal> EUT Information

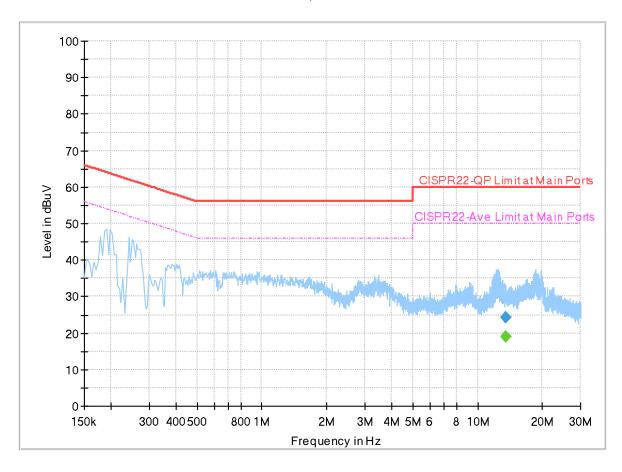
 Report NO :
 2D2704

 Test Mode :
 Mode 1

 Test Voltage :
 120Vac/60Hz

Phase: Line

Full Spectrum

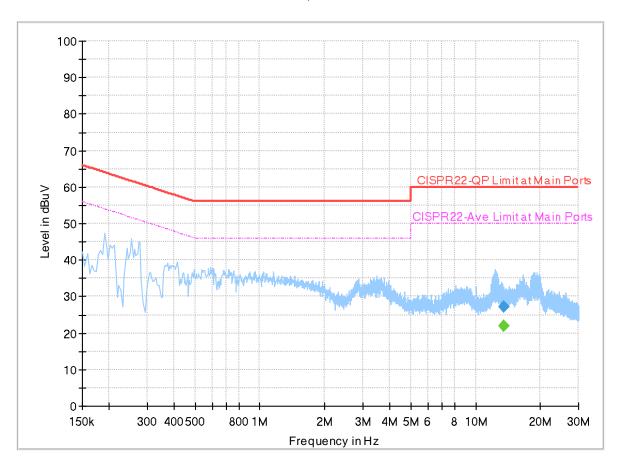


Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000		18.86	50.00	31.14	L1	OFF	20.2
13.560000	24.22		60.00	35.78	L1	OFF	20.2

EUT Information

Report NO: 2D2704
Test Mode: Mode 1
Test Voltage: 120Vac/60Hz
Phase: Neutral

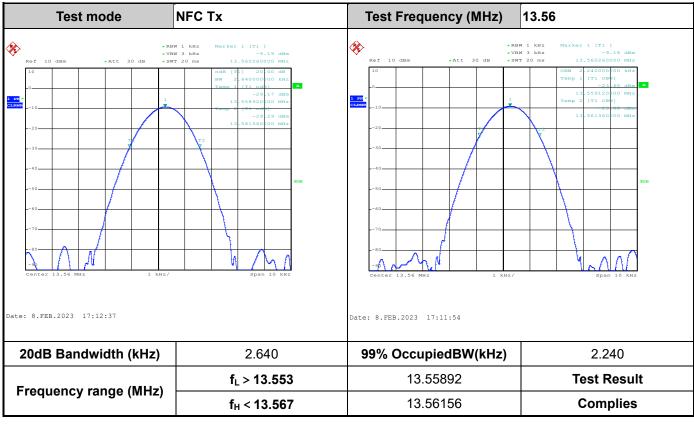
Full Spectrum



Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000		21.80	50.00	28.20	N	OFF	20.2
13.560000	27.12		60.00	32.88	N	OFF	20.2

Appendix B. Test Results of Near Field Test Items

B1. Test Result of 20dB Spectrum Bandwidth



Report No.: FR2D2704D

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.

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B2. Test Result of Frequency Stability

Voltage vs. Frequency Stability		Temperature vs. Frequency Stability		
Voltage (Vdc)	Measurement Frequency (MHz)	Temperature (℃)	Time	Measurement Frequency (MHz)
3.85	13.560240	-20	0	13.560390
3.45	13.560240		2	13.560390
4.41	13.560240		5	13.560400
			10	13.560400
		-10	0	13.560400
			2	13.560400
			5	13.560400
			10	13.560400
		0	0	13.560380
			2	13.560380
			5	13.560380
			10	13.560380
		10	0	13.560360
			2	13.560360
			5	13.560360
			10	13.560360
		20	0	13.560320
			2	13.560320
			5	13.560320
			10	13.560320
		30	0	13.560300
			2	13.560300
			5	13.560300
			10	13.560280
		40	0	13.560240
			2	13.560240
			5	13.560240
			10	13.560240

Report No.: FR2D2704D

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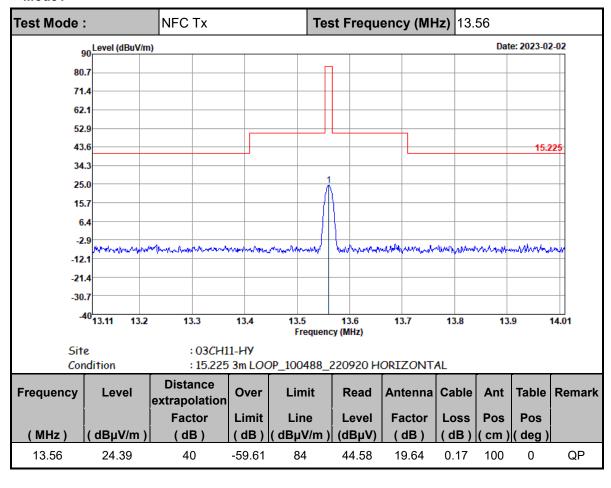
Voltage vs. Frequency Stability		Temperature vs. Frequency Stability		
Voltage (Vdc)	Measurement Frequency (MHz)	Temperature (°C)	Time	Measurement Frequency (MHz)
		50	0	13.560230
			2	13.560240
			5	13.560220
			10	13.560240
Max.Deviation (MHz)	0.000240	Max.Deviation (MHz)		0.000400
Max.Deviation (ppm)	17.6991	Max.Deviation (ppm)		29.4985
Limit	FS < ±100 ppm	Limit		FS < ±100 ppm
Test Result	PASS	Test Result		PASS

Report No.: FR2D2704D

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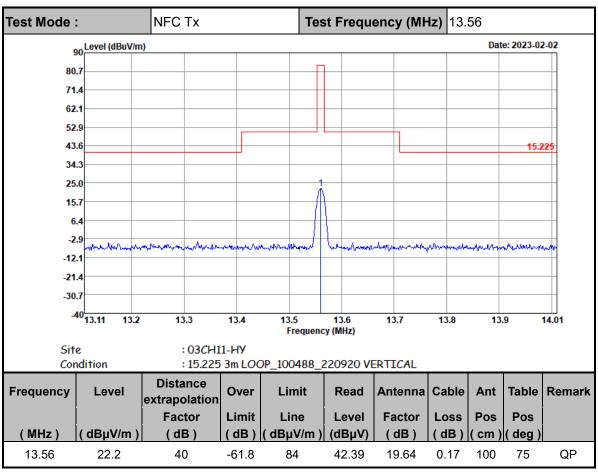
Appendix C. Test Results of Radiated Test Items

C1. Test Result of Field Strength of Fundamental Emissions <a



Report No.: FR2D2704D

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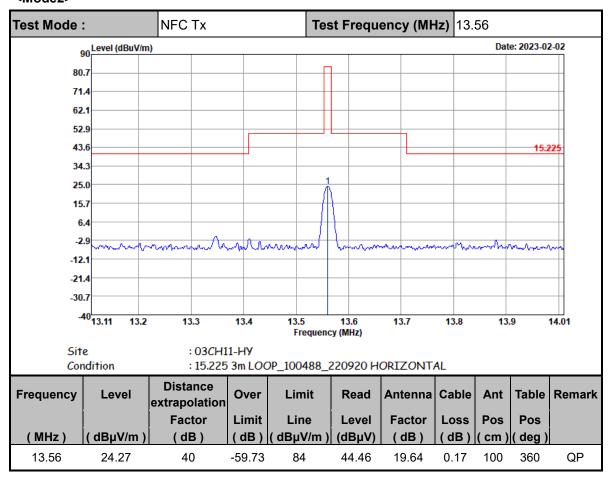
Report No.: FR2D2704D

Note:

- 1. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 2. Level = Antenna Factor + Cable Loss + Read Level Distance extrapolation factor.

TEL: 886-3-327-0868 Page Number : C2 of C18

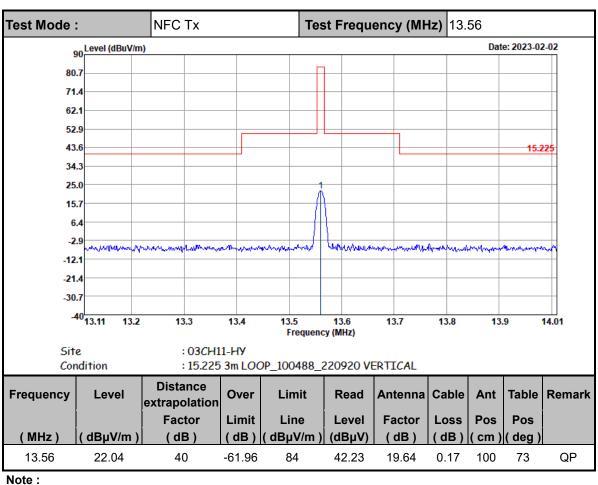
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Report No.: FR2D2704D

TEL: 886-3-327-0868 Page Number : C3 of C18



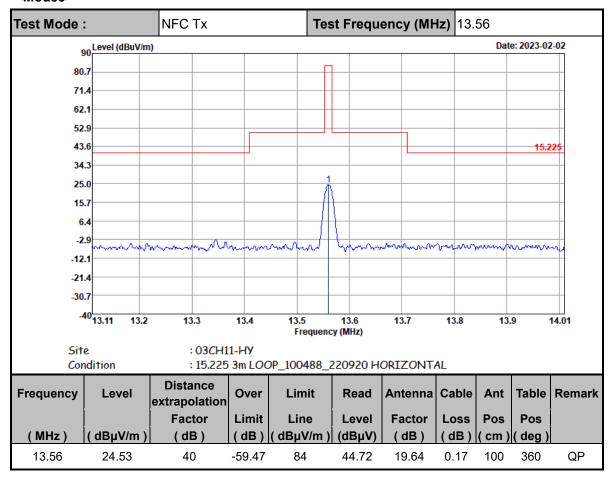


Report No.: FR2D2704D

- 1. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 2. Level = Antenna Factor + Cable Loss + Read Level Distance extrapolation factor.

Page Number TEL: 886-3-327-0868 : C4 of C18

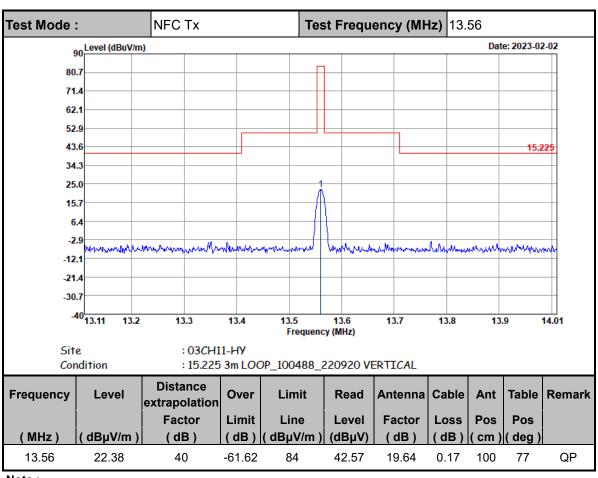
<Mode3>



Report No.: FR2D2704D

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Report No.: FR2D2704D

Note:

1. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)

2. Level = Antenna Factor + Cable Loss + Read Level - Distance extrapolation factor.

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

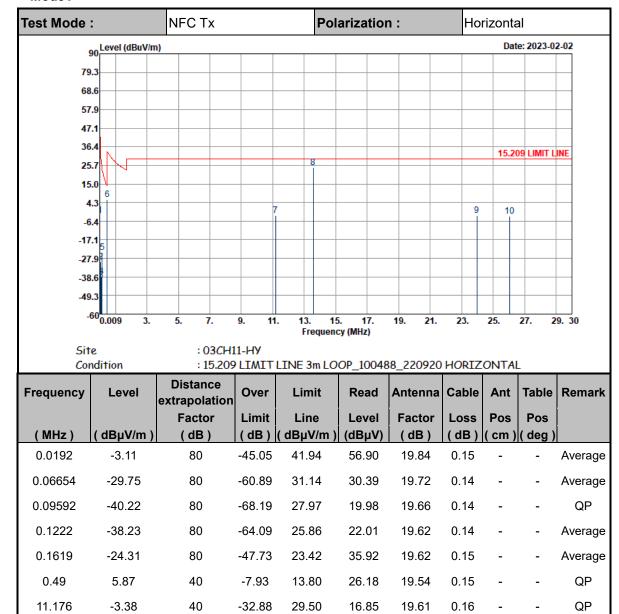
Report No.: FR2D2704D

QP

QP

QP

<Mode1>



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FAX: 886-3-327-0855

13.56

23.956

26.04

24.51

-3.01

-3.61

40

40

40

-4.99

-32.51

-33.11

29.50

29.50

29.50

44.70

16.35

15.63

19.64

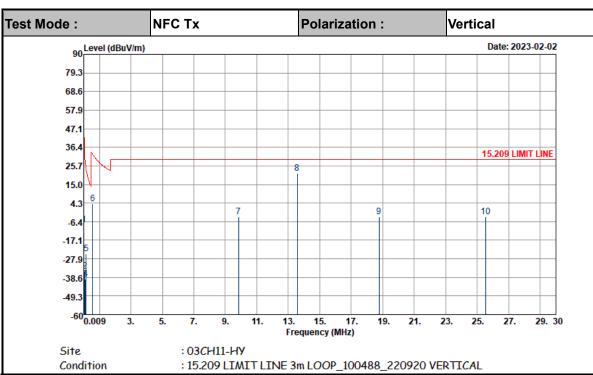
20.42

20.53

0.17

0.22

0.23



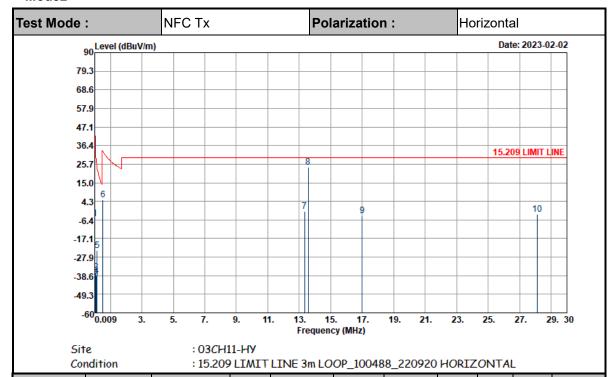
Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
		Factor	Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.0192	-8.21	80	-50.15	41.94	51.80	19.84	0.15	-	-	Average
0.06165	-34.92	80	-66.73	31.81	25.22	19.72	0.14	-	-	Average
0.09394	-39.45	80	-67.60	28.15	20.73	19.68	0.14	-	-	QP
0.11292	-39.38	80	-65.93	26.55	20.86	19.62	0.14	-	-	Average
0.15476	-24.74	80	-48.55	23.81	35.49	19.62	0.15	-	-	Average
0.5651	4.12	40	-28.44	32.56	24.43	19.55	0.14	-	-	QP
9.848	-3.43	40	-32.93	29.50	16.82	19.6	0.15	-	-	QP
13.56	21.63	40	-7.87	29.50	41.82	19.64	0.17	-	-	QP
18.772	-3.57	40	-33.07	29.50	16.38	19.85	0.2	-	-	QP
25.56	-3.80	40	-33.30	29.50	15.49	20.48	0.23	-	-	QP

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. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 3. Level = Antenna Factor + Cable Loss + Read Level Distance extrapolation factor.
- 4. 13.56 MHz is fundamental signal which can be ignored

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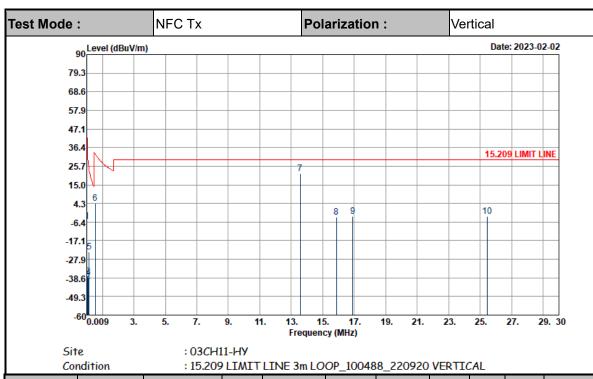
<Mode2>



Report No.: FR2D2704D

Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
		Factor	Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	($dB\mu V/m$)	(dB)	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.0192	-5.61	80	-47.55	41.94	54.40	19.84	0.15	-	-	Average
0.06657	-36.71	80	-67.85	31.14	23.43	19.72	0.14	-	-	Average
0.09644	-40.54	80	-68.46	27.92	19.66	19.66	0.14	-	-	QP
0.11292	-38.81	80	-65.36	26.55	21.43	19.62	0.14	-	-	Average
0.15	-23.92	80	-48.00	24.08	36.31	19.62	0.15	-	-	Average
0.53506	5.11	40	-27.93	33.04	25.42	19.54	0.15	-	-	QP
13.344	-1.58	40	-31.08	29.50	18.62	19.63	0.17	-	-	QP
13.56	24.03	40	-5.470	29.50	44.22	19.64	0.17	-	-	QP
16.999	-3.84	40	-33.34	29.50	16.21	19.76	0.19	-	-	QP
28.12	-3.32	40	-32.82	29.50	15.92	20.52	0.24	-	-	QP

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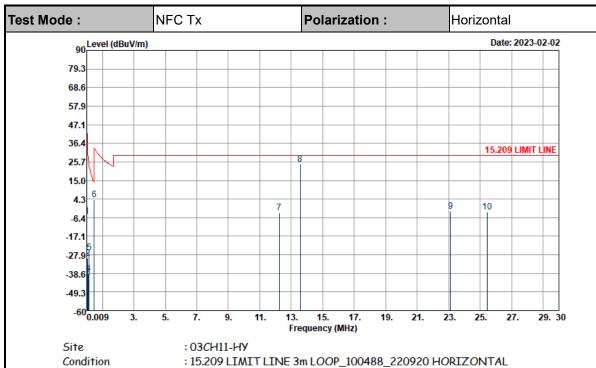
Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
(8411)	(ID)(()	Factor	Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.01925	-6.24	80	-48.16	41.92	53.78	19.83	0.15	-	-	Average
0.06195	-38.04	80	-69.80	31.76	22.10	19.72	0.14	-	-	Average
0.09466	-41.02	80	-69.10	28.08	19.17	19.67	0.14	-	-	QP
0.11736	-38.16	80	-64.37	26.21	22.08	19.62	0.14	-	-	Average
0.16394	-23.53	80	-46.84	23.31	36.70	19.62	0.15	-	-	Average
0.54257	4.51	40	-28.40	32.91	24.82	19.54	0.15	-	-	QP
13.56	21.67	40	-7.83	29.50	41.86	19.64	0.17	-	-	QP
15.872	-3.57	40	-33.07	29.50	16.59	19.66	0.18	-	-	QP
16.9	-3.17	40	-32.67	29.50	16.89	19.75	0.19	-	-	QP
25.46	-3.21	40	-32.71	29.50	16.09	20.47	0.23	-	-	QP

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. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 3. Level = Antenna Factor + Cable Loss + Read Level Distance extrapolation factor.
- 4. 13.56 MHz is fundamental signal which can be ignored

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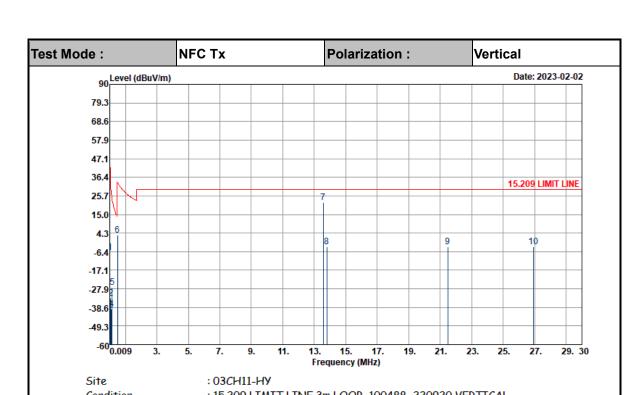
<Mode3>



Report No.: FR2D2704D

Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
		Factor	Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	($dB\mu V/m$)	(dB)	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.0192	-5.85	80	-47.79	41.94	54.16	19.84	0.15	-	-	Average
0.06648	-29.98	80	-61.13	31.15	30.16	19.72	0.14	-	-	Average
0.09158	-40.74	80	-69.11	28.37	19.42	19.7	0.14	-	-	QP
0.11624	-38.72	80	-65.02	26.30	21.52	19.62	0.14	-	-	Average
0.15816	-26.38	80	-50.00	23.62	33.85	19.62	0.15	-	-	Average
0.49	3.83	40	-9.97	13.80	24.14	19.54	0.15	-	-	QP
12.232	-3.64	40	-33.14	29.50	16.58	19.62	0.16	-	-	QP
13.56	24.29	40	-5.21	29.50	44.48	19.64	0.17	-	-	QP
23.11	-2.57	40	-32.07	29.50	16.89	20.32	0.22	-	-	QP
25.465	-3.16	40	-32.66	29.50	16.14	20.47	0.23	-	-	QP

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Cor	ndition	: 15.209	LIMIT	LINE 3m LO	OP_10048	8_220920	VERTIC	:AL
Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	An
		Factor	Limit	Line	Level	Factor	Loss	Po

Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
(MHz)	(dBµV/m)	Factor (dB)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB)	Loss (dB)	Pos (cm)	Pos (deg)	
0.0192	-6.86	80	-48.8	41.94	53.15	19.84	0.15	- -	- -	Average
0.06192	-33.16	80	-64.93	31.77	26.98	19.72	0.14	-	-	Average
0.09188	-40.04	80	-68.38	28.34	20.12	19.7	0.14	-	-	QP
0.11608	-39.58	80	-65.89	26.31	20.66	19.62	0.14	-	-	Average
0.15306	-26.88	80	-50.79	23.91	33.35	19.62	0.15	-	-	Average
0.50502	3.3	40	-30.24	33.54	23.61	19.54	0.15	-	-	QP
13.56	21.71	40	-7.79	29.5	41.9	19.64	0.17	-	-	QP
13.808	-3.67	40	-33.17	29.5	16.52	19.64	0.17	-	-	QP
21.472	-3.74	40	-33.24	29.5	15.9	20.15	0.21	-	-	QP
26.935	-3.75	40	-33.25	29.5	15.47	20.54	0.24	-	-	QP

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. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 3. Level = Antenna Factor + Cable Loss + Read Level Distance extrapolation factor.
- 4. 13.56 MHz is fundamental signal which can be ignored

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C3. Results of Radiated Spurious Emissions (30MHz~1GHz)

<Mode1>

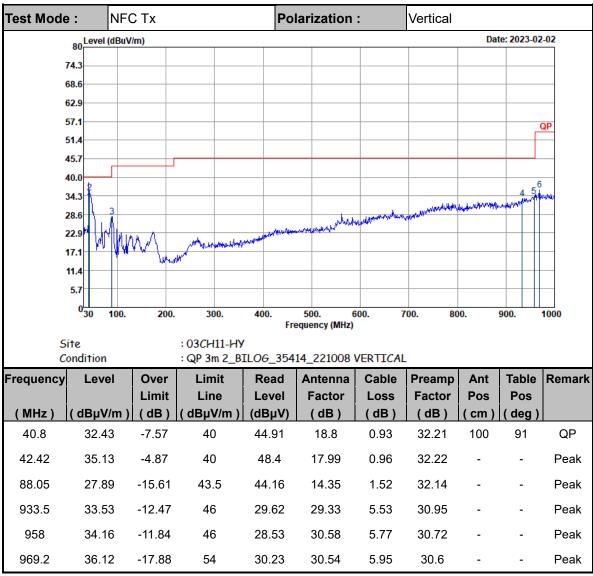


Report No.: FR2D2704D

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
40.53	26.34	-13.66	40	38.66	18.96	0.93	32.21	-	-	Peak
45.12	25.73	-14.27	40	40.44	16.54	0.99	32.24	-	-	Peak
90.48	30.02	-13.48	43.5	45.94	14.67	1.54	32.13	-	-	Peak
943.3	34.01	-11.99	46	29.45	29.83	5.59	30.86	-	-	Peak
958.7	34.66	-11.34	46	28.97	30.62	5.78	30.71	-	-	Peak
967.1	34.94	-19.06	54	29.12	30.54	5.91	30.63	-	-	Peak

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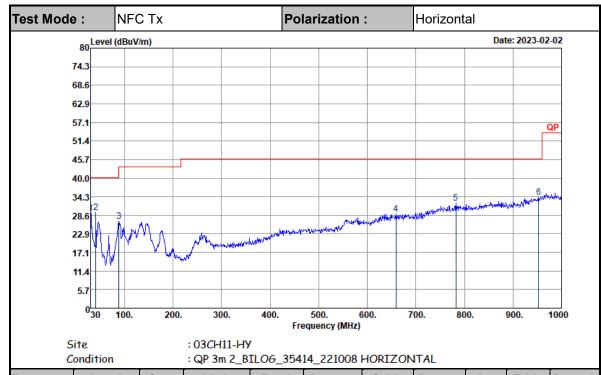


Note:

- 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 μ V/m) = 20 log Emission level (μ V/m).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

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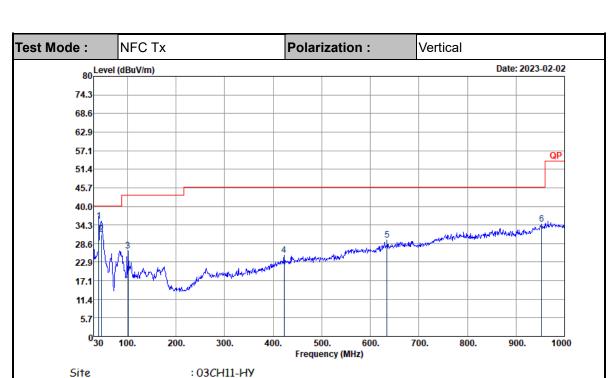
<Mode2>



Report No.: FR2D2704D

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
30.27	29.21	-10.79	40	36.5	23.8	1.06	32.15	-	-	Peak
40.53	29.34	-10.66	40	41.66	18.96	0.93	32.21	-	-	Peak
88.05	26.77	-16.73	43.5	43.04	14.35	1.52	32.14	-	-	Peak
659.1	28.95	-17.05	46	30.21	26.03	4.68	31.97	-	-	Peak
782.3	32.22	-13.78	46	30.93	27.75	5.41	31.87	-	-	Peak
952.4	34.14	-11.86	46	28.95	30.3	5.67	30.78	-	-	Peak

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Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
40.68	35.33	-4.67	40	47.74	18.87	0.93	32.21	100	292	QP
45.66	31.52	-8.48	40	46.51	16.24	1.01	32.24	100	59	QP
101.01	26.38	-17.12	43.5	40.94	15.94	1.63	32.13	-	-	Peak
422.5	25.05	-20.95	46	31.21	22.58	3.24	31.98	-	-	Peak
634.6	29.65	-16.35	46	31.05	26.08	4.53	32.01	-	-	Peak
952.4	34.63	-11.37	46	29.44	30.3	5.67	30.78	-	-	Peak

 $: QP \ 3m \ 2_BILOG_35414_221008 \ VERTICAL$

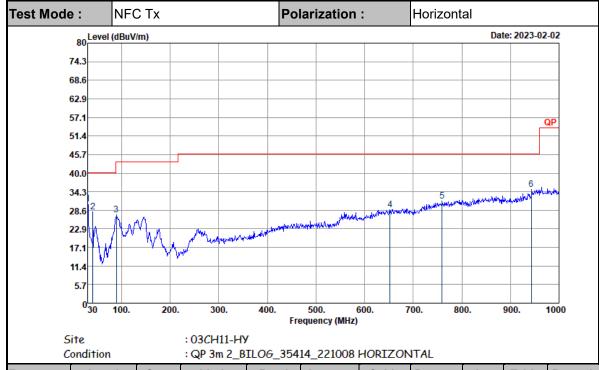
Note:

Condition

- 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 μ V/m) = 20 log Emission level (μ V/m).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.
- 4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

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<Mode3>

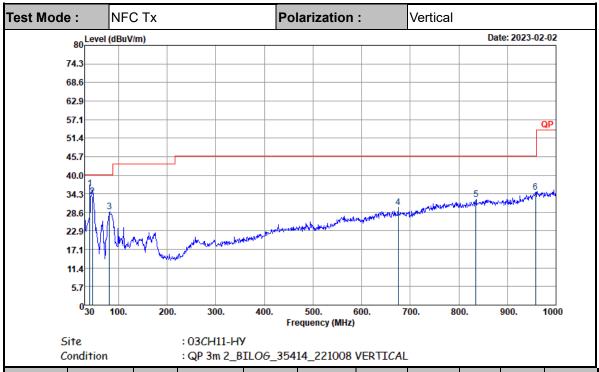


Report No.: FR2D2704D

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
30	30.49	-9.51	40	37.65	23.92	1.07	32.15	-	-	Peak
40.8	27.98	-12.02	40	40.46	18.8	0.93	32.21	-	-	Peak
89.13	27.14	-16.36	43.5	43.29	14.45	1.53	32.13	-	-	Peak
652.1	28.85	-17.15	46	30.04	26.05	4.71	31.95	-	-	Peak
759.2	31.36	-14.64	46	30.54	27.69	4.96	31.83	-	-	Peak
943.3	34.9	-11.1	46	30.34	29.83	5.59	30.86	-	-	Peak

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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)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
40.68	35.91	-4.09	40	48.32	18.87	0.93	32.21	100	264	QP
45.66	33.34	-6.66	40	48.33	16.24	1.01	32.24	100	353	QP
81.3	28.84	-11.16	40	46.19	13.33	1.48	32.16	-	-	Peak
675.2	30.12	-15.88	46	31.24	26.31	4.61	32.04	-	-	Peak
835.5	32.52	-13.48	46	30.22	28.29	5.69	31.68	-	-	Peak
958	34.85	-11.15	46	29.22	30.58	5.77	30.72	-	-	Peak

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 μ V/m) = 20 log Emission level (μ V/m).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.
- 4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

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