

Report No.: FR832801-05D



FCC RADIO TEST REPORT

FCC ID : B32E280BTWFDB

Equipment : Point of Sales Terminal

Brand Name : Verifone Model Name : e280 DB

Applicant : Verifone, Inc.

88 West Plumeria Drive, San Jose, CA

95134, United States

Manufacturer : Verifone, Inc.

Standard : FCC Part 15 Subpart C §15.225

The product was received on Oct. 26, 2019 and testing was started from Nov. 08, 2019 and completed on Dec. 03, 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: Louis Wu

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

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Report No.	Version	Description	Issued Date
FR832801-05D	01	Initial issue of report	Dec. 16, 2019

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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	Under limit 5.85 dB at 0.170MHz
2.2	15.215(c)	20dB Spectrum Bandwidth	Pass	-
3.2	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 38.29 dBµV/m at 13.560 MHz
3.5	15.225(d) 15.209	Radiated Spurious Emissions	Pass	Under limit 4.91 dB at 212.790MHz
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: Tracy Lin

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1. General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, and RFID.

Product Specification subjective to this standard		
Antenna Type	WLAN: Stamping Antenna Bluetooth: Stamping Antenna RFID: Loop Antenna	

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Specification of Accessory				
	Brand Name	Verifone		
	Manufacturer	Phihong		
AC Adoptor	Model Name	PSAA05A-050QL6V		
AC Adapter	Power Rating	Input:100-240Vac, 50-60Hz 0.2A		
		Output: 5V/1A		
	Power Cord	N/A		
Dottom	Brand Name	Verifone		
Battery	Model Name	BPK087-700		
USB Cable	Brand Name	Verifone		
	Model Name	N/A		

1.2 Modification of EUT

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

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1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory			
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.			
rest site No.	TH03-HY	CO05-HY	03CH07-HY	
Test Engineer	Louis Chung Tom Lee Stan Hsieh			
Temperature	22~24°C 24.9~26.1°C 23~24°C			
Relative Humidity	53~55% 48~55% 55~57%			

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

FCC designation No.: TW1190

1.4 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

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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.

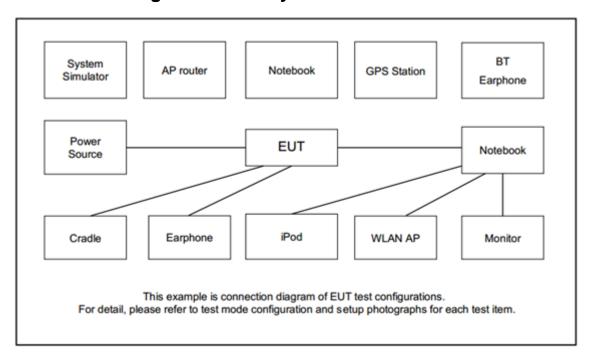
Test Items				
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions			
20dB Spectrum Bandwidth	Frequency Stability			
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz			

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The EUT pre-scanned in four NFC type, A, B. The worst type (type B) 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	Mode 1: Bluetooth Idle + WLAN (2.4GHz) Idle + RFID On + MSR + Smart Card +				
Emission	Buzzer/Speaker + Display + USB Cable (Charging from Adapter)				

2.2 Connection Diagram of Test System



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2.3 Table for Supporting Units

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	MSR Card	N/A	N/A	N/A	N/A	N/A
4.	Smart Card	N/A	N/A	N/A	N/A	N/A
5.	NFC Card	Winso	NA	NA	TYPE B	N/A

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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.

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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 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

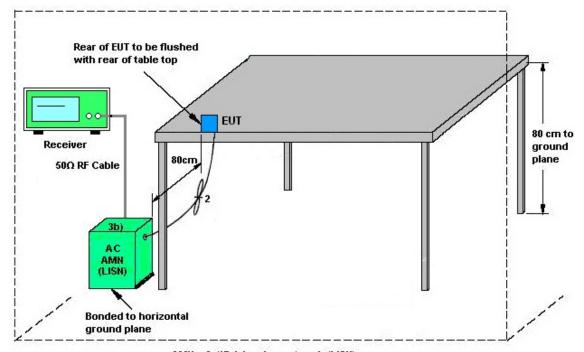
See list of measuring equipment of this test report.

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.

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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 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

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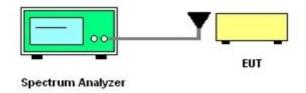
3.2.2 Measuring Instruments

See list of measuring instruments of 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 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.

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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 using a new battery.

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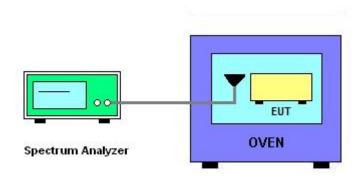
3.3.2 Measuring Instruments

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 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 Conducted 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	s FCC CFR 47 Part 15 section 15.225			
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.			
From of Emission (MIII)	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

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

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3.4.3 Test Procedures

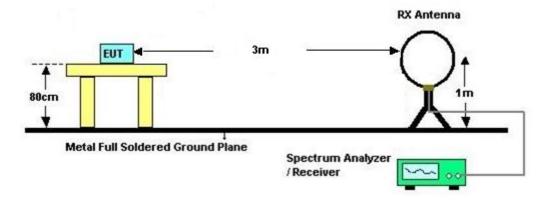
 Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.

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- 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.
- 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.

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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

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.

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3.5.4 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 receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

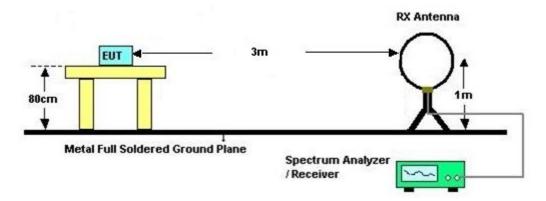
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- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground 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.
- 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.

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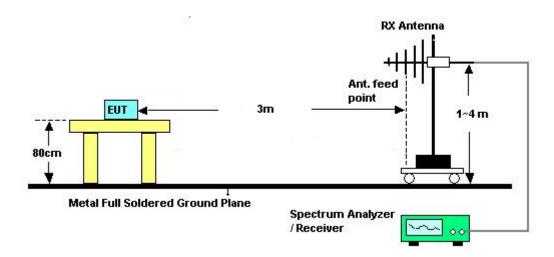
3.5.5 Test Setup

For radiated emissions below 30MHz



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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.

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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	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 06, 2019	Nov. 15, 2019	Mar. 05, 2020	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 04, 2019	Nov. 15, 2019	Sep. 03, 2020	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Nov. 28, 2018	Nov. 15, 2019	Nov. 27, 2019	Conducted (TH03-HY)
Power Divider	Warison	WCOU-0.4-26 .5S-20	#A	N/A	Nov. 06, 2019	Nov. 15, 2019	Nov. 05, 2020	Conducted (TH03-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 08, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Nov. 08, 2019	Nov. 11, 2019	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 19, 2019	Nov. 08, 2019	Mar. 18, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Nov. 08, 2019	Nov. 13, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 08, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Nov. 08, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Nov. 08, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	35419 & 03	30MHz~1GHz	Apr. 30, 2019	Nov. 18, 2019 ~ Dec. 03, 2019	Apr. 29, 2020	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY532900 53	20Hz~26.5GHz	Jan. 23, 2019	Nov. 18, 2019 ~ Dec. 03, 2019	Jan. 22, 2020	Radiation (03CH07-HY)
Hygrometer	Testo	HTC-2	1	N/A	Jun. 17, 2019	Nov. 18, 2019 ~ Dec. 03, 2019	Jun. 16, 2020	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 11, 2019	Nov. 18, 2019 ~ Dec. 03, 2019	Jan. 10, 2020	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 20, 2019	Nov. 18, 2019 ~ Dec. 03, 2019	May 19, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/ 4, MY28655/ 4	9kHz~30MHz	Feb. 26, 2019	Nov. 18, 2019 ~ Dec. 03, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/ 4, MY24971/ 4, MY15682/ 4	30MHz~1GHz	Feb. 26, 2019	Nov. 18, 2019 ~ Dec. 03, 2019	Feb. 25, 2020	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Nov. 18, 2019 ~ Dec. 03, 2019	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208 368	Control Ant Mast	N/A	Nov. 18, 2019 ~ Dec. 03, 2019	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	805040046 56H	N/A	N/A	Nov. 18, 2019 ~ Dec. 03, 2019	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Nov. 18, 2019 ~ Dec. 03, 2019	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Nov. 18, 2019 ~ Dec. 03, 2019	N/A	Radiation (03CH07-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	2.2
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	3.4
of 95% (U = 2Uc(y))	3.4

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

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

Test Engineer :		Temperature :	24.9~26.1°C
	Tom Lee	Relative Humidity :	48~55%

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<Original Test Result>

EUT Information

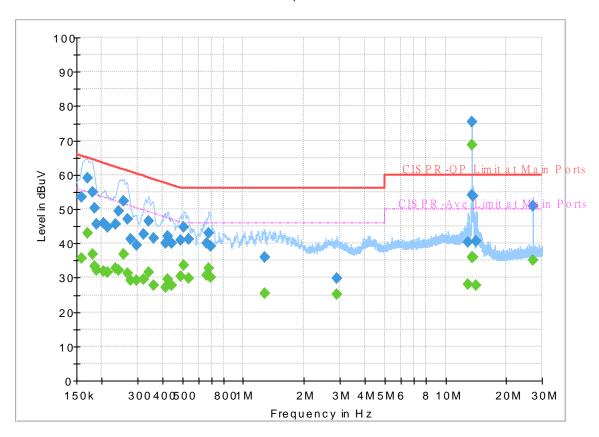
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 Test Mode :
 Mode 1

 Test Voltage :
 120Vac/60Hz

Phase: Line

FullSpectrum



Final Result

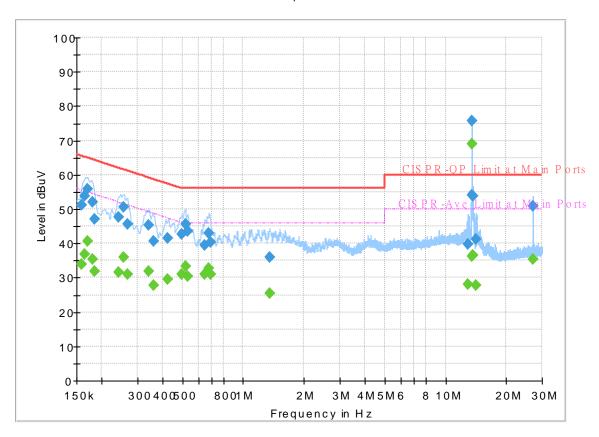
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000		35.54	55.52	19.98	L1	OFF	19.4
0.159000	53.61		65.52	11.91	L1	OFF	19.4
0.170250		42.90	54.95	12.05	L1	OFF	19.4
0.170250	59.10		64.95	5.85	L1	OFF	19.4
0.179250		36.80	54.52	17.72	L1	OFF	19.4
0.179250	54.87		64.52	9.65	L1	OFF	19.4
0.183750		33.48	54.31	20.83	L1	OFF	19.4
0.183750	50.40		64.31	13.91	L1	OFF	19.4
0.188250		32.16	54.11	21.95	L1	OFF	19.4
0.188250	45.60		64.11	18.51	L1	OFF	19.4
0.204000		31.73	53.45	21.72	L1	OFF	19.4
0.204000	45.95		63.45	17.50	L1	OFF	19.4
0.213000		31.52	53.09	21.57	L1	OFF	19.4
0.213000	44.76		63.09	18.33	L1	OFF	19.4
0.233250		32.61	52.33	19.72	L1	OFF	19.4
0.233250	45.55		62.33	16.78	L1	OFF	19.4
0.242250		32.22	52.02	19.80	L1	OFF	19.4
0.242250	49.41		62.02	12.61	L1	OFF	19.4
0.255750		36.80	51.57	14.77	L1	OFF	19.4
0.255750	52.46		61.57	9.11	L1	OFF	19.4
0.269250		31.30	51.14	19.84	L1	OFF	19.4

0.269250	47.00		61.14	14.14	L1	OFF	19.4
0.276000		29.37	50.94	21.57	L1	OFF	19.4
0.276000	41.09		60.94	19.85	L1	OFF	19.4
0.296250		29.10	50.35	21.25	L1	OFF	19.4
0.296250	39.44		60.35	20.91	L1	OFF	19.4
0.323250		29.61	49.62	20.01	L1	OFF	19.4
0.323250	42.76		59.62	16.86	L1	OFF	19.4
0.339000		31.47	49.23	17.76	L1	OFF	19.4
0.339000	46.40		59.23	12.83	L1	OFF	19.4
0.359250		27.88	48.75	20.87	L1	OFF	19.4
0.359250	41.41		58.75	17.34	L1	OFF	19.4
0.413250		27.10	47.58	20.48	L1	OFF	19.4
0.413250	40.17		57.58	17.41	L1	OFF	19.4
0.424500		29.66	47.36	17.70	L1	OFF	19.4
0.424500	42.16		57.36	15.20	L1	OFF	19.4
0.442500		27.65	47.02	19.37	L1	OFF	19.4
0.442500	40.19		57.02	16.83	L1	OFF	19.4
0.489750		30.49	46.17	15.68	L1	OFF	19.4
0.489750	40.89		56.17	15.28	L1	OFF	19.4
0.510000		33.51	46.00	12.49	L1	OFF	19.4
0.510000	44.68		56.00	11.32	L1	OFF	19.4
0.534750		29.73	46.00	16.27	L1	OFF	19.4
0.534750	41.29		56.00	14.71	L1	OFF	19.4
0.656250		30.70	46.00	15.30	L1	OFF	19.4
0.656250	39.95		56.00	16.05	L1	OFF	19.4
0.676500		32.77	46.00	13.23	L1	OFF	19.4
0.676500	43.06		56.00	12.94	L1	OFF	19.4
0.692250		30.18	46.00	15.82	L1	OFF	19.4
0.692250	39.07		56.00	16.93	L1	OFF	19.4
1.270500		25.51	46.00	20.49	L1	OFF	19.5
1.270500	35.90		56.00	20.10	L1	OFF	19.5
2.890500		25.14	46.00	20.86	L1	OFF	19.5
2.890500	29.90		56.00	26.10	L1	OFF	19.5
12.887250		27.96	50.00	22.04	L1	OFF	19.9
12.887250	40.21		60.00	19.79	L1	OFF	19.9
13.476750		35.95	50.00	14.05	L1	OFF	19.9
13.476750	54.02		60.00	5.98	L1	OFF	19.9
13.560000		68.75	50.00	-18.75	L1	OFF	19.9
13.560000	75.58		60.00	-15.58	L1	OFF	19.9
13.643250		35.93	50.00	14.07	L1	OFF	19.9
13.643250	53.80		60.00	6.20	L1	OFF	19.9
14.217000		27.79	50.00	22.21	L1	OFF	20.0
14.217000	40.68		60.00	19.32	L1	OFF	20.0
27.120750		35.19	50.00	14.81	L1	OFF	20.3
27.120750	50.85		60.00	9.15	L1	OFF	20.3

EUT Information

Report NO: 832801-05
Test Mode: Mode 1
Test Voltage: 120Vac/60Hz
Phase: Neutral

FullSpectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	-	33.86	55.52	21.66	N	OFF	19.5
0.159000	51.27		65.52	14.25	N	OFF	19.5
0.163500		36.77	55.28	18.51	N	OFF	19.5
0.163500	53.84		65.28	11.44	N	OFF	19.5
0.170250	-	40.74	54.95	14.21	N	OFF	19.5
0.170250	55.81		64.95	9.14	N	OFF	19.5
0.179250		35.25	54.52	19.27	N	OFF	19.5
0.179250	51.97		64.52	12.55	N	OFF	19.5
0.183750		31.80	54.31	22.51	N	OFF	19.5
0.183750	47.12		64.31	17.19	N	OFF	19.5
0.242250	-	31.46	52.02	20.56	N	OFF	19.5
0.242250	47.64		62.02	14.38	N	OFF	19.5
0.255750		35.95	51.57	15.62	N	OFF	19.5
0.255750	50.51		61.57	11.06	N	OFF	19.5
0.269250		30.86	51.14	20.28	N	OFF	19.5
0.269250	45.61		61.14	15.53	N	OFF	19.5
0.341250		31.99	49.17	17.18	N	OFF	19.5
0.341250	45.40		59.17	13.77	N	OFF	19.5
0.359250		27.86	48.75	20.89	N	OFF	19.5
0.359250	40.61		58.75	18.14	N	OFF	19.5
0.424500		29.64	47.36	17.72	N	OFF	19.5

0.424500 41.64 57.36 15.72 N OFF 19.5 0.496500 30.89 46.06 15.17 N OFF 19.5 0.496500 42.56 56.06 13.50 N OFF 19.5 0.516750 33.19 46.00 12.81 N OFF 19.5 0.516750 45.76 56.00 10.24 N OFF 19.5 0.530250 30.41 46.00 15.59 N OFF 19.5 0.530250 43.60 56.00 12.40 N OFF 19.5 0.642750 39.57 56.00 15.00 N OFF 19.5 0.676500 32.68 46.00 13.32 N OFF 19.5 0.690000 31.07 46.00 13.13 N OFF 19.5 1.349250 25.55<								
0.496500 42.56 56.06 13.50 N OFF 19.5 0.516750 33.19 46.00 12.81 N OFF 19.5 0.516750 45.76 56.00 10.24 N OFF 19.5 0.530250 30.41 46.00 15.59 N OFF 19.5 0.530250 43.60 56.00 12.40 N OFF 19.5 0.642750 31.00 46.00 15.00 N OFF 19.5 0.642750 39.57 56.00 16.43 N OFF 19.5 0.676500 32.68 46.00 13.32 N OFF 19.5 0.690000 31.07 46.00 14.93 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 12.927750 27.96	0.424500	41.64		57.36	15.72	N	OFF	19.5
0.516750 33.19 46.00 12.81 N OFF 19.5 0.516750 45.76 56.00 10.24 N OFF 19.5 0.530250 30.41 46.00 15.59 N OFF 19.5 0.530250 43.60 56.00 12.40 N OFF 19.5 0.642750 31.00 46.00 15.00 N OFF 19.5 0.642750 39.57 56.00 16.43 N OFF 19.5 0.676500 32.68 46.00 13.32 N OFF 19.5 0.690000 31.07 46.00 14.93 N OFF 19.5 0.690000 40.46 56.00 15.54 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 12.927750 27.96	0.496500		30.89	46.06	15.17	N	OFF	19.5
0.516750 45.76 56.00 10.24 N OFF 19.5 0.530250 30.41 46.00 15.59 N OFF 19.5 0.530250 43.60 56.00 12.40 N OFF 19.5 0.642750 31.00 46.00 15.00 N OFF 19.5 0.642750 39.57 56.00 16.43 N OFF 19.5 0.676500 32.68 46.00 13.32 N OFF 19.5 0.690000 31.07 46.00 14.93 N OFF 19.5 0.690000 40.46 56.00 15.54 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 12.927750 27.96 50.00 20.14 N OFF 20.0 13.476750 54.15	0.496500	42.56		56.06	13.50	N	OFF	19.5
0.530250 30.41 46.00 15.59 N OFF 19.5 0.530250 43.60 56.00 12.40 N OFF 19.5 0.642750 31.00 46.00 15.00 N OFF 19.5 0.642750 39.57 56.00 16.43 N OFF 19.5 0.676500 32.68 46.00 13.32 N OFF 19.5 0.676500 42.87 56.00 13.13 N OFF 19.5 0.690000 31.07 46.00 14.93 N OFF 19.5 0.690000 40.46 56.00 15.54 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 12.927750 27.96 50.00 22.04 N OFF 20.0 13.476750 36.1	0.516750		33.19	46.00	12.81	N	OFF	19.5
0.530250 43.60 56.00 12.40 N OFF 19.5 0.642750 31.00 46.00 15.00 N OFF 19.5 0.642750 39.57 56.00 16.43 N OFF 19.5 0.676500 32.68 46.00 13.32 N OFF 19.5 0.690000 31.07 46.00 14.93 N OFF 19.5 0.690000 40.46 56.00 15.54 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 1.349250 35.86 56.00 20.14 N OFF 19.5 12.927750 27.96 50.00 22.04 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.560000 68.	0.516750	45.76		56.00	10.24	N	OFF	19.5
0.642750 31.00 46.00 15.00 N OFF 19.5 0.642750 39.57 56.00 16.43 N OFF 19.5 0.676500 32.68 46.00 13.32 N OFF 19.5 0.690000 31.07 46.00 14.93 N OFF 19.5 0.690000 40.46 56.00 15.54 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 1.349250 35.86 56.00 20.14 N OFF 19.5 12.927750 27.96 50.00 22.04 N OFF 20.0 12.927750 39.88 60.00 20.12 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.560000 68	0.530250		30.41	46.00	15.59	N	OFF	19.5
0.642750 39.57 56.00 16.43 N OFF 19.5 0.676500 32.68 46.00 13.32 N OFF 19.5 0.690000 42.87 56.00 13.13 N OFF 19.5 0.690000 31.07 46.00 14.93 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 1.349250 35.86 56.00 20.14 N OFF 19.5 12.927750 27.96 50.00 22.04 N OFF 20.0 12.927750 39.88 60.00 20.12 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.645500	0.530250	43.60		56.00	12.40	N	OFF	19.5
0.676500 32.68 46.00 13.32 N OFF 19.5 0.676500 42.87 56.00 13.13 N OFF 19.5 0.690000 31.07 46.00 14.93 N OFF 19.5 0.690000 40.46 56.00 15.54 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 1.349250 35.86 56.00 20.14 N OFF 19.5 12.927750 27.96 50.00 22.04 N OFF 20.0 12.927750 39.88 60.00 20.12 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.645500	0.642750		31.00	46.00	15.00	N	OFF	19.5
0.676500 42.87 56.00 13.13 N OFF 19.5 0.690000 31.07 46.00 14.93 N OFF 19.5 0.690000 40.46 56.00 15.54 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 1.349250 35.86 56.00 20.14 N OFF 19.5 12.927750 27.96 50.00 22.04 N OFF 20.0 12.927750 39.88 60.00 20.12 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.645500 36.47 50.00 13.53 N OFF 20.0 14.219250 <td< td=""><td>0.642750</td><td>39.57</td><td></td><td>56.00</td><td>16.43</td><td>N</td><td>OFF</td><td>19.5</td></td<>	0.642750	39.57		56.00	16.43	N	OFF	19.5
0.690000 31.07 46.00 14.93 N OFF 19.5 0.690000 40.46 56.00 15.54 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 1.349250 35.86 56.00 20.14 N OFF 19.5 12.927750 27.96 50.00 22.04 N OFF 20.0 12.927750 39.88 60.00 20.12 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.645500 75.82 60.00 -15.82 N OFF 20.0 13.645500 53.92 60.00 6.08 N OFF 20.0 14.219250 <t< td=""><td>0.676500</td><td></td><td>32.68</td><td>46.00</td><td>13.32</td><td>N</td><td>OFF</td><td>19.5</td></t<>	0.676500		32.68	46.00	13.32	N	OFF	19.5
0.690000 40.46 56.00 15.54 N OFF 19.5 1.349250 25.55 46.00 20.45 N OFF 19.5 1.349250 35.86 56.00 20.14 N OFF 19.5 12.927750 27.96 50.00 22.04 N OFF 20.0 12.927750 39.88 60.00 20.12 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.645500 75.82 60.00 -15.82 N OFF 20.0 13.645500 53.92 60.00 6.08 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 27.120750 <	0.676500	42.87		56.00	13.13	N	OFF	19.5
1.349250 25.55 46.00 20.45 N OFF 19.5 1.349250 35.86 56.00 20.14 N OFF 19.5 12.927750 27.96 50.00 22.04 N OFF 20.0 12.927750 39.88 60.00 20.12 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.560000 75.82 60.00 -15.82 N OFF 20.0 13.645500 36.47 50.00 13.53 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 14.219250 27.87 50.00 18.68 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	0.690000		31.07	46.00	14.93	N	OFF	19.5
1.349250 35.86 56.00 20.14 N OFF 19.5 12.927750 27.96 50.00 22.04 N OFF 20.0 12.927750 39.88 60.00 20.12 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.560000 75.82 60.00 -15.82 N OFF 20.0 13.645500 36.47 50.00 13.53 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 14.219250 27.87 50.00 18.68 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	0.690000	40.46		56.00	15.54	N	OFF	19.5
12.927750 27.96 50.00 22.04 N OFF 20.0 12.927750 39.88 60.00 20.12 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.560000 75.82 60.00 -15.82 N OFF 20.0 13.645500 36.47 50.00 13.53 N OFF 20.0 14.219250 60.00 6.08 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	1.349250		25.55	46.00	20.45	N	OFF	19.5
12.927750 39.88 60.00 20.12 N OFF 20.0 13.476750 36.19 50.00 13.81 N OFF 20.0 13.476750 54.15 60.00 5.85 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.560000 75.82 60.00 -15.82 N OFF 20.0 13.645500 36.47 50.00 13.53 N OFF 20.0 14.219250 60.00 6.08 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	1.349250	35.86		56.00	20.14	N	OFF	19.5
13.476750 36.19 50.00 13.81 N OFF 20.0 13.476750 54.15 60.00 5.85 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.560000 75.82 60.00 -15.82 N OFF 20.0 13.645500 36.47 50.00 13.53 N OFF 20.0 14.219250 60.00 6.08 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	12.927750		27.96	50.00	22.04	N	OFF	20.0
13.476750 54.15 60.00 5.85 N OFF 20.0 13.560000 68.90 50.00 -18.90 N OFF 20.0 13.560000 75.82 60.00 -15.82 N OFF 20.0 13.645500 36.47 50.00 13.53 N OFF 20.0 13.645500 53.92 60.00 6.08 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 14.219250 41.32 60.00 18.68 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	12.927750	39.88		60.00	20.12	N	OFF	20.0
13.560000 68.90 50.00 -18.90 N OFF 20.0 13.560000 75.82 60.00 -15.82 N OFF 20.0 13.645500 36.47 50.00 13.53 N OFF 20.0 13.645500 53.92 60.00 6.08 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 14.219250 41.32 60.00 18.68 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	13.476750		36.19	50.00	13.81	N	OFF	20.0
13.560000 75.82 60.00 -15.82 N OFF 20.0 13.645500 36.47 50.00 13.53 N OFF 20.0 13.645500 53.92 60.00 6.08 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 14.219250 41.32 60.00 18.68 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	13.476750	54.15		60.00	5.85	N	OFF	20.0
13.645500 36.47 50.00 13.53 N OFF 20.0 13.645500 53.92 60.00 6.08 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 14.219250 41.32 60.00 18.68 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	13.560000		68.90	50.00	-18.90	N	OFF	20.0
13.645500 53.92 60.00 6.08 N OFF 20.0 14.219250 27.87 50.00 22.13 N OFF 20.0 14.219250 41.32 60.00 18.68 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	13.560000	75.82		60.00	-15.82	N	OFF	20.0
14.219250 27.87 50.00 22.13 N OFF 20.0 14.219250 41.32 60.00 18.68 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	13.645500		36.47	50.00	13.53	N	OFF	20.0
14.219250 41.32 60.00 18.68 N OFF 20.0 27.120750 35.28 50.00 14.72 N OFF 20.5	13.645500	53.92		60.00	6.08	N	OFF	20.0
27.120750 35.28 50.00 14.72 N OFF 20.5	14.219250		27.87	50.00	22.13	N	OFF	20.0
	14.219250	41.32		60.00	18.68	N	OFF	20.0
27.120750 50.86 60.00 9.14 N OFF 20.5	27.120750		35.28	50.00	14.72	N	OFF	20.5
	27.120750	50.86		60.00	9.14	N	OFF	20.5

<Terminal Test Result>

EUT Information

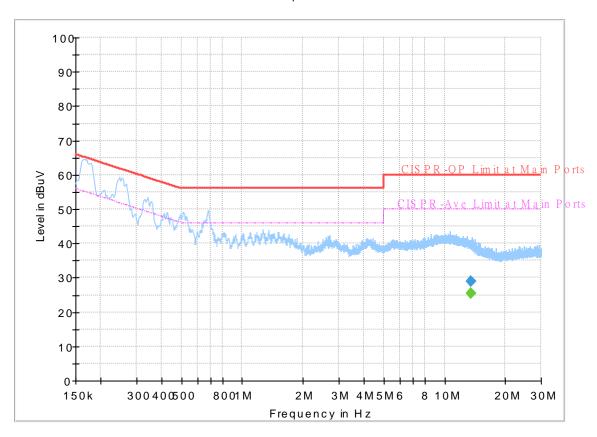
 Report NO :
 832801-05

 Test Mode :
 Mode 1

 Test Voltage :
 120Vac/60Hz

Phase: Line

Full Spectrum



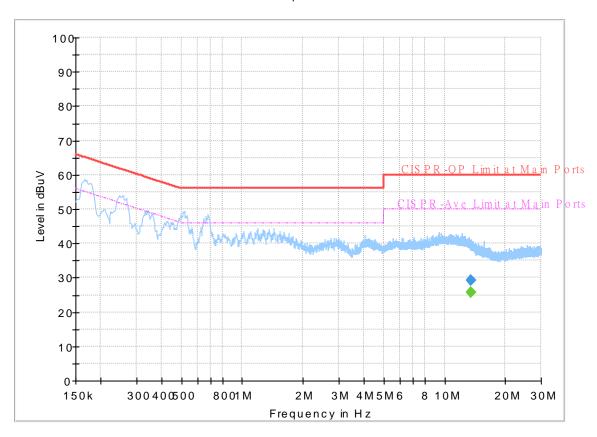
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000		25.46	50.00	24.54	L1	OFF	19.9
13.560000	28.95		60.00	31.05	L1	OFF	19.9

EUT Information

Report NO: 832801-05
Test Mode: Mode 1
Test Voltage: 120Vac/60Hz
Phase: Neutral

FullSpectrum

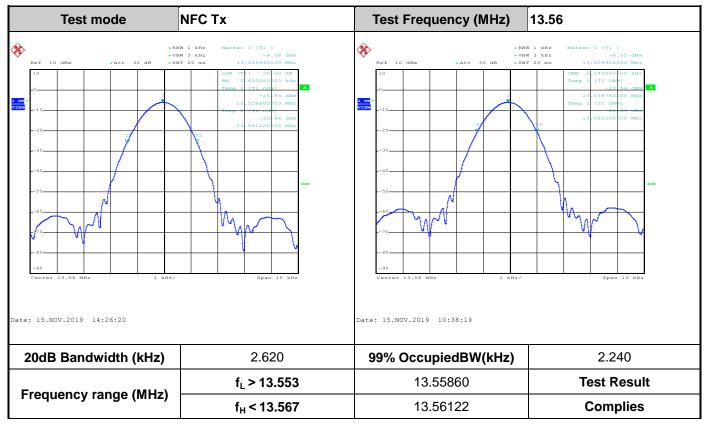


Final_Result

	Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
Ī	13.560000		25.65	50.00	24.35	N	OFF	20.0
Ī	13.560000	29.25		60.00	30.75	N	OFF	20.0

Appendix B. Test Results of Conducted Test Items

B1.Test Result of 20dB Spectrum Bandwidth



Report No.: FR832801-05D

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.

TEL: 886-3-327-3456 Page Number: B1 of B3



B2.Test Result of Frequency Stability

Voltage vs. Frequ	ency Stability	Temperature vs. Frequency Stability				
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Time	Measurement Frequency (MHz)		
120	13.559910	-20	0	13.559980		
102	13.559870		2	13.559980		
138	13.559860		5	13.559980		
		10		13.559980		
		-10	0	13.559970		
			2	13.559970		
			5	13.559980		
			10	13.559980		
		0	0	13.559960		
			2	13.559960		
			5	13.559960		
			10	13.559960		
		10	0	13.559930		
			2	13.559940		
			5	13.559930		
			10	13.559930		
		20	0	13.559910		
			2	13.559900		
			5	13.559900		
			10	13.559900		
		30	0	13.559880		
			2	13.559880		
			5	13.559880		
			10	13.559880		
		40	0	13.559880		
			2	13.559880		
			5	13.559880		
			10	13.559880		

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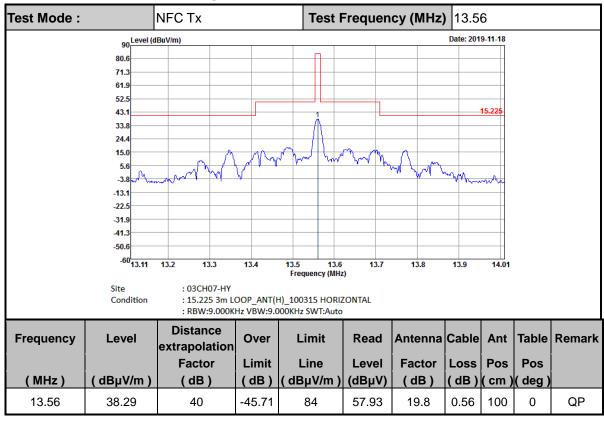
Voltage vs. Frequ	ency Stability	Temperature vs. Frequency Stability				
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Time	Measurement Frequency (MHz)		
		50 0 2		13.559880		
				13.559880		
			5	13.559900		
			10	13.559875		
Max.Deviation (MHz)	-0.000140	Max.Deviation (MHz)		-0.000125		
Max.Deviation (ppm)	-10.3245	Max.Deviati	-9.2183			
Limit	FS < ±100 ppm	Limit		FS < ±100 ppm		
Test Result	PASS	Test Re	PASS			

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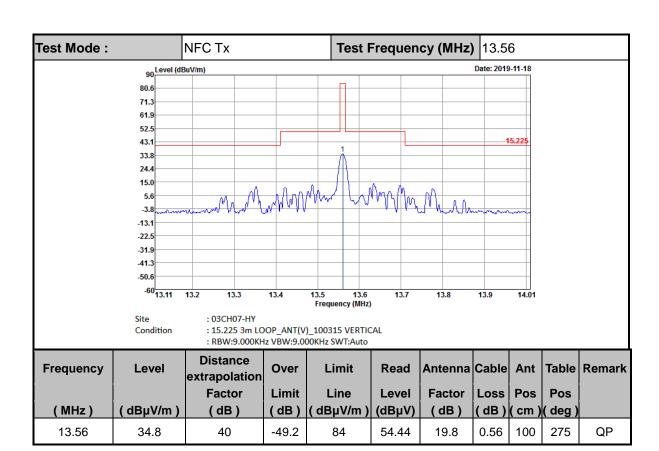
Appendix C. Test Results of Radiated Test Items

C1. Test Result of Field Strength of Fundamental Emissions



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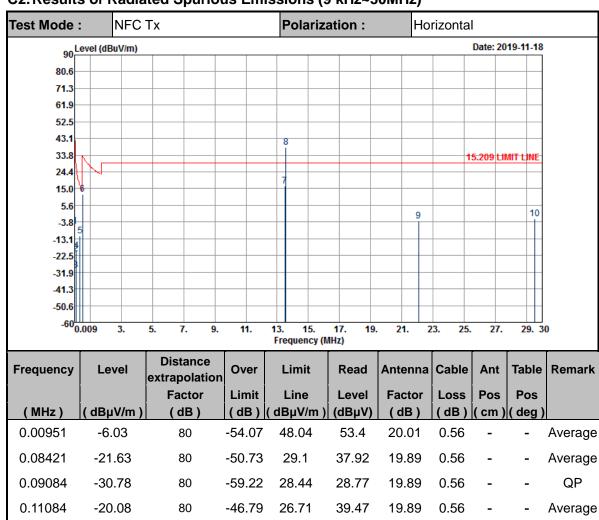
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C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

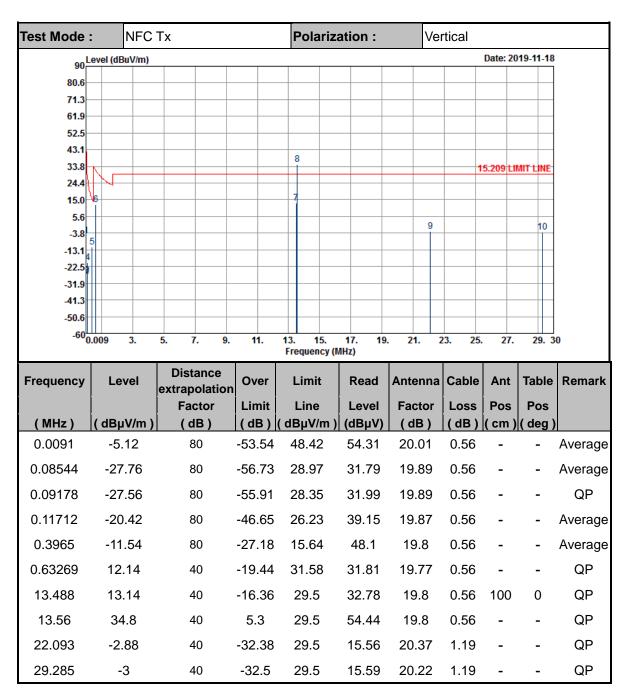


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		Factor	Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.00951	-6.03	80	-54.07	48.04	53.4	20.01	0.56	-	-	Average
0.08421	-21.63	80	-50.73	29.1	37.92	19.89	0.56	-	-	Average
0.09084	-30.78	80	-59.22	28.44	28.77	19.89	0.56	-	-	QP
0.11084	-20.08	80	-46.79	26.71	39.47	19.89	0.56	-	-	Average
0.34686	-11.5	80	-28.3	16.8	48.15	19.79	0.56	-	-	Average
0.52004	11.85	40	-21.43	33.28	31.49	19.8	0.56	-	-	QP
13.488	16.65	40	-12.85	29.5	36.29	19.8	0.56	100	0	QP
13.56	38.29	40	8.79	29.5	57.93	19.8	0.56	-	-	QP
22.075	-2.97	40	-32.47	29.5	15.47	20.37	1.19	-	-	QP
29.54	-2.02	40	-31.52	29.5	16.61	20.18	1.19	-	-	QP

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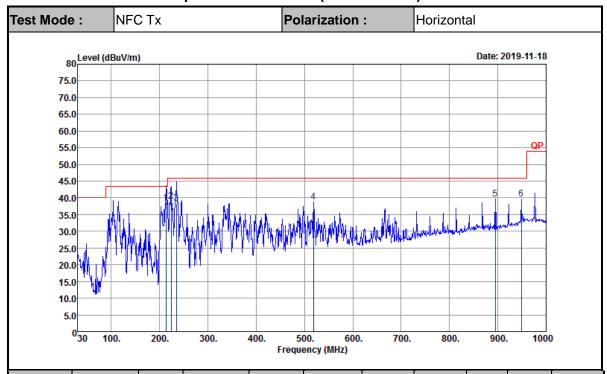
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Note:

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

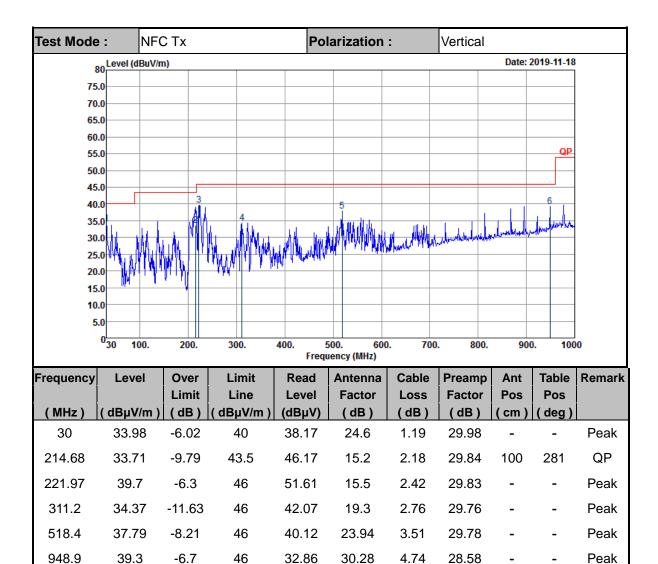


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Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	($dB\mu V/m$)	(dB)	$(dB\mu V/m)$	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
212.79	38.59	-4.91	43.5	51.09	15.16	2.18	29.84	100	177	QP
223.59	39.03	-6.97	46	50.76	15.68	2.42	29.83	117	166	QP
234.66	38.28	-7.72	46	49.02	16.66	2.42	29.82	100	356	QP
518.4	38.72	-7.28	46	41.05	23.94	3.51	29.78	-	-	Peak
895	39.75	-6.25	46	35.31	28.76	4.63	28.95	-	-	Peak
948.9	39.77	-6.23	46	33.33	30.28	4.74	28.58	-	-	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.

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