



FCC PART 15.225
RSS-210 ISSUE 11, JUNE 2024
RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT2

TEST REPORT

For

FCC: Fujian LANDI Commercial Equipment Co.,Ltd.

Building 17, Section A, Software Park, No. 89 Software Road, Gulou District, Fuzhou Municipality,
Fujian Province, China

IC: Fujian LANDI Commercial Equipment Co., Ltd.

Building 17, Section A, Software Park, No. 89 Software Road, Gulou District, Fuzhou Municipality,
Fujian Province, P.R. 350003 China

FCC ID: 2AG6N-C2001B1
IC: 23725-C2001B1

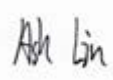
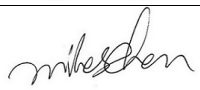
Report Type: Original Report	Product Name: POS Terminal
Report Number:	2407Z105198E-RF-01
Report Date:	2025-07-03
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2407Z105198E-RF-01	R1V1	2025-07-03	Initial Release

GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

Applicant:	FCC: Fujian LANDI Commercial Equipment Co.,Ltd. IC: Fujian LANDI Commercial Equipment Co., Ltd.	
Product Name:	POS Terminal	
Tested Model:	C20Pro	
HVIN:	C2001-S195, C2001-S197	
Power Supply:	DC 19.0V, 3.42A from adapter	
Adapter #1 Information	Model:	PA-1650-57 65.0W
	Input:	AC 100-240V, 50/60Hz, 1.6A
	Output:	DC 19.0V, 3.42A
Adapter #2 Information	Model:	PA-1650-90
	Input:	AC 100-240V, 50/60Hz, 1.6A
	Output:	DC 19.0V, 3.42A
RF Function:	NFC	
Operating Band/Frequency:	13.56 MHz	
Antenna Type:	COIL Antenna	

Note:

1. The Operating Frequency is provided by the applicant.
2. The EUT contains a variety of configurations, the difference of the configurations show as below:

Model name	HVIN	Class II Permissive Change Certified RF Module	Configuration No.	Description	NFC	WWAN/GNSS	Printer
C20Pro	C2001-S195	SLM927 (FCC ID:2AG6N-SLM927AM4MG IC:23725- SLM927AM4MG)	4	4G NA- 15.6" CFD	√	√	√
	C2001-S197	SNM927 (FCC ID:2AG6N-SNM927WF4MG IC:23725-SNM927WF4MG)	5	Wifi only - 15.6" CFD	√	x	√

3. All measurement and test data in this report was gathered from production sample serial number: 2U0J-4(Configuration 4), 2U0J-9(Configuration 5) (Assigned by the BACL (Xiamen). The EUT supplied by the applicant was received on 2024-11-18)

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the ISED RSS-210, Issue 11, June 2024, applicable standard: License-Exempt Radio Apparatus: Category I Equipment & RSS-GEN, Issue 5, February 2021 Amendment 2: General Requirements for Compliance of Radio Apparatus & ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone Xiamen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the IC accredited lab under the KDB 974614 D01, the IC Designation No. : CN0176.

Measurement Uncertainty

Item		U_{lab}
Radiated Disturbance	9kHz~150kHz	2.82 dB
	150kHz~30MHz	2.74 dB
	30MHz~200MHz	3.47 dB
	200MHz~1GHz	4.86 dB
Occupied Bandwidth		2%
Frequency Error(RF Frequency)		0.085×10^6
Temperature		$\pm 1^{\circ}\text{C}$
Humidity		$\pm 5\%$

SYSTEM TEST CONFIGURATION**Test Mode and Voltage**

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Test Mode 1: Transmitting
Test voltage:	AC 120V/60Hz
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Justification

The system was configured in testing mode which was provided by manufacturer.

Channel List:

Channel	Frequency (MHz)
1	13.56

EUT Exercise Software

The EUT is tested in the engineering mode.

Equipment Modifications

No modification on the EUT.

Support Equipment List and Details

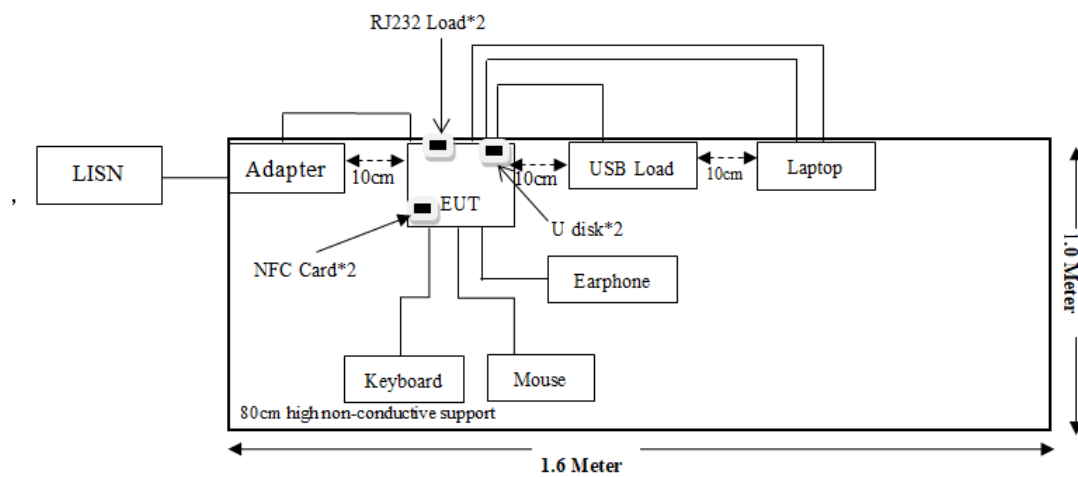
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T480	PF1P5K4F
Kingston	U disk*2	DTSE9G3	Unknown
Unknown	RJ232 Load*2	Unknown	Unknown
PHILIPS	Keyboard	SPK6234	K234210510745
PHILIPS	Mouse	SPK7214	M214BQ210411119
Unknown	USB Load	Unknown	Unknown
Unknown	Earphone	Unknown	Unknown
Unknown	NFC Card*2	Unknown	Unknown

External Cable

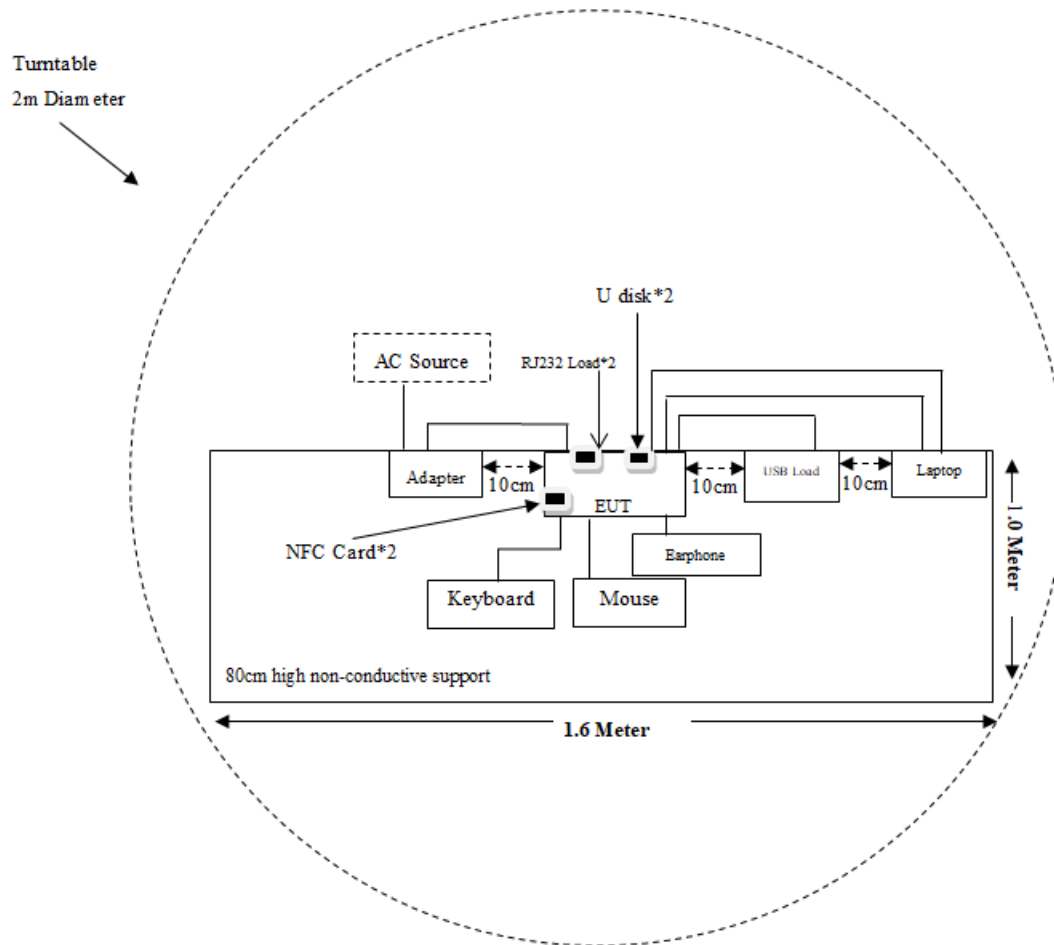
Cable Description	Length (m)	From Port	To
Type-C Cable	1	EUT	Laptop
USB Cable	1	EUT	USB Load
Network Cable	1	EUT	Laptop
Keyboard cable	1.5	Keyboard	EUT
Mouse cable	1.5	Mouse	EUT
Earphone cable	1.5	Earphone	EUT

Block Diagram of Test Setup

Conducted Emission:



Radiated Emission:



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC §15.203 RSS-GEN Issue 5 Clause 6.8	Antenna Requirement	Compliant
FCC §15.207 (a) RSS-GEN Issue 5 Clause 8.8	AC Line Conducted Emissions	Compliant
FCC§15.225 §15.209 §15.205 RSS-210 Issue 11 Clause Annex B B.6	Radiated Emission Test	Compliant
FCC§15.225(e) RSS-210 Issue 11 Clause Annex B B.6	Frequency Stability	Compliant
FCC §15.215(c)	20dB Emission Bandwidth	Compliant
RSS-GEN Issue 5 Clause 6.7	Occupied Bandwidth	Compliant

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2025/02/20	2026/02/19
LISN	Rohde & Schwarz	ENV216	100129	2025/02/20	2026/02/19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2025/02/20	2026/02/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/02/20	2026/09/19
Test Software	Audix	E3	18621a	N/A	N/A
Frequency Stability					
EMI Test Receiver	Rohde & Schwarz	ESR3	103103	2025/02/20	2026/02/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/02/20	2026/02/19
constant temperature and humidity testing machine	BACL	BTH-150	30211	2025/02/20	2026/02/19
AC power source	WACP	ES-CPF-SD45-600	EO20230629001	2025/02/20	2026/02/19
20dB Emission Bandwidth & 99% Occupied Bandwidth					
EMI Test Receiver	Rohde & Schwarz	ESR3	103103	2025/02/20	2026/02/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/02/20	2026/02/19

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203 & RSS-GEN ISSUE 5 CLAUSE 6.8- ANTENNA REQUIREMENT

Applicable Standard

FCC§15.203

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.

RSS-GEN Clause 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connected Construction

The EUT has two COIL antennas for 13.56 MHz which the antenna gain is 0dBi, the antenna was permanently attached, fulfill the requirement of this section, please refer to the EUT photos.

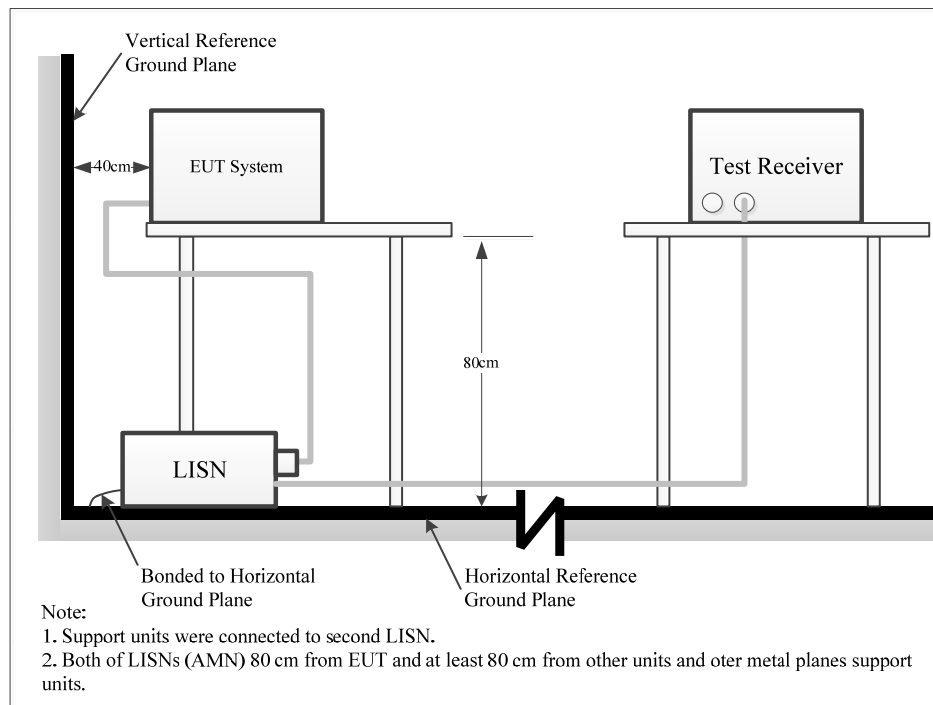
Result: Compliant.

FCC §15.207 (a) & RSS-GEN ISSUE 5 CLAUSE 8.8 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207, RSS-Gen Clause 8.8

EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207, RSS-Gen limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Result & Margin Calculation

The result is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

$$\text{Result (dB}\mu\text{V)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Result (dB}\mu\text{V)}$$

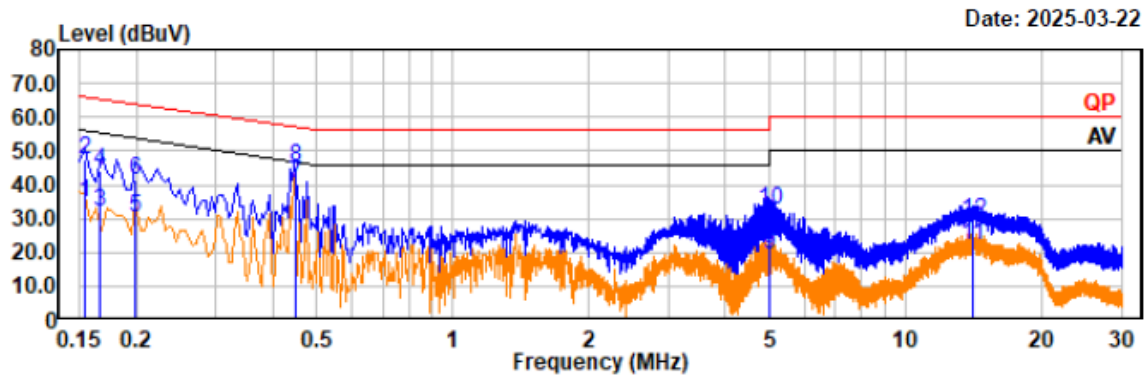
Test Data

Temperature:	21.5~23.5°C
Relative Humidity:	53 ~55 %
ATM Pressure:	100.1~100.3 kPa
Test Date:	2025-03-22~2025-05-10
Test Engineer:	Spike Gao

For C20Pro (Configuration 4)**Adapter #1**

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro

Temp/Humi/ATM: 23.5°C/55%/100.3kPa
Tested by: Spike Gao
Power Source: AC 120V/60Hz



Trace: 1

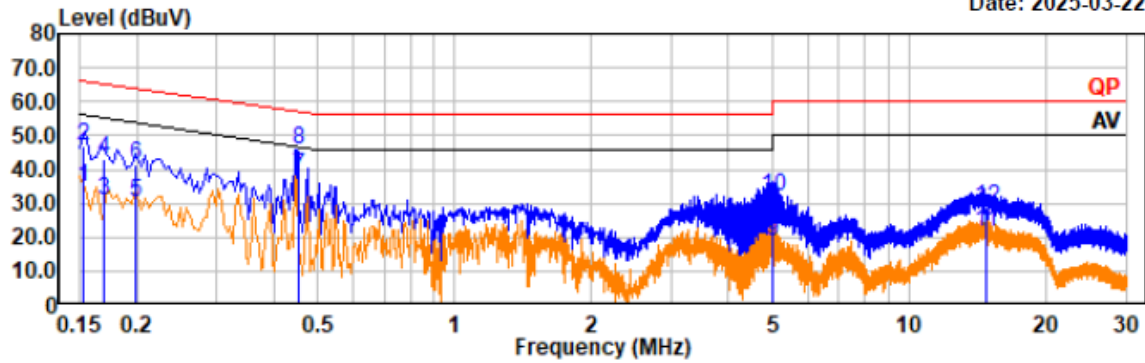
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.15	13.86	20.90	34.76	55.81	21.05	Line	Average
0.15	26.73	20.90	47.63	65.81	18.18	Line	QP
0.17	10.99	20.79	31.78	55.11	23.33	Line	Average
0.17	23.42	20.79	44.21	65.11	20.90	Line	QP
0.20	9.50	20.58	30.08	53.68	23.60	Line	Average
0.20	20.73	20.58	41.31	63.68	22.37	Line	QP
0.45	19.92	20.33	40.25	46.89	6.64	Line	Average
0.45	24.91	20.33	45.24	56.89	11.65	Line	QP
4.99	-1.45	20.84	19.39	46.00	26.61	Line	Average
4.99	11.56	20.84	32.40	56.00	23.60	Line	QP
14.05	1.16	20.82	21.98	50.00	28.02	Line	Average
14.05	8.65	20.82	29.47	60.00	30.53	Line	QP

Project No.: 2407Z105198E-RF
 Test Mode: NFC transmitting
 EUT Model: C20Pro

Temp/Humi/ATM: 23.5°C/55%/100.3kPa
 Tested by: Spike Gao
 Power Source: AC 120V/60Hz

Date: 2025-03-22



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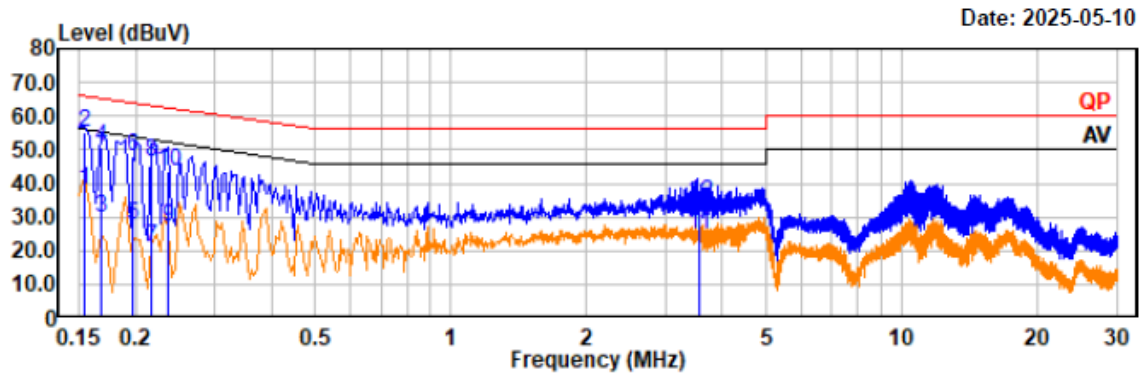
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.15	14.00	20.72	34.72	55.82	21.10	Neutral	Average
0.15	26.27	20.72	46.99	65.82	18.83	Neutral	QP
0.17	10.24	20.71	30.95	55.02	24.07	Neutral	Average
0.17	22.59	20.71	43.30	65.02	21.72	Neutral	QP
0.20	9.71	20.67	30.38	53.66	23.28	Neutral	Average
0.20	20.49	20.67	41.16	63.66	22.50	Neutral	QP
0.45	17.74	20.42	38.16	46.80	8.64	Neutral	Average
0.45	25.38	20.42	45.80	56.80	11.00	Neutral	QP
5.02	-2.13	20.86	18.73	50.00	31.27	Neutral	Average
5.02	11.19	20.86	32.05	60.00	27.95	Neutral	QP
14.76	0.61	21.07	21.68	50.00	28.32	Neutral	Average
14.76	7.43	21.07	28.50	60.00	31.50	Neutral	QP

Adapter #2

Project No.: 2407Z105198E-RF
 Test Mode: NFC transmitting
 EUT Model: C20Pro

Temp/Humi/ATM: 21.5°C/53%/100.1kPa
 Tested by: Spike Gao
 Power Source: AC 120V/60Hz



Trace: 1

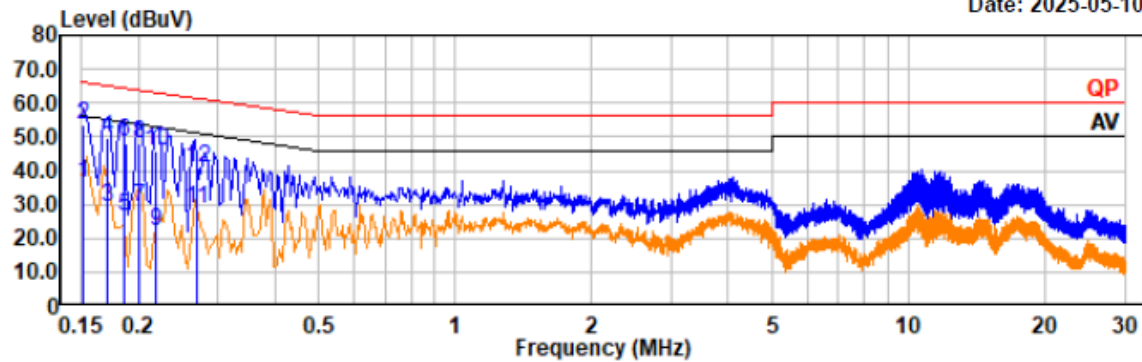
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.15	17.11	20.90	38.01	55.80	17.79	Line	Average
0.15	34.03	20.90	54.93	65.80	10.87	Line	QP
0.17	8.84	20.79	29.63	55.08	25.45	Line	Average
0.17	30.10	20.79	50.89	65.08	14.19	Line	QP
0.20	7.08	20.59	27.67	53.71	26.04	Line	Average
0.20	27.36	20.59	47.95	63.71	15.76	Line	QP
0.22	0.52	20.54	21.06	52.97	31.91	Line	Average
0.22	25.70	20.54	46.24	62.97	16.73	Line	QP
0.24	6.50	20.52	27.02	52.24	25.22	Line	Average
0.24	22.99	20.52	43.51	62.24	18.73	Line	QP
3.55	3.86	20.75	24.61	46.00	21.39	Line	Average
3.55	13.42	20.75	34.17	56.00	21.83	Line	QP

Project No.: 2407Z105198E-RF
 Test Mode: NFC transmitting
 EUT Model: C20Pro

Temp/Humi/ATM: 21.5°C/53%/100.1kPa
 Tested by: Spike Gao
 Power Source: AC 120V/60Hz

Date: 2025-05-10



Trace: 1

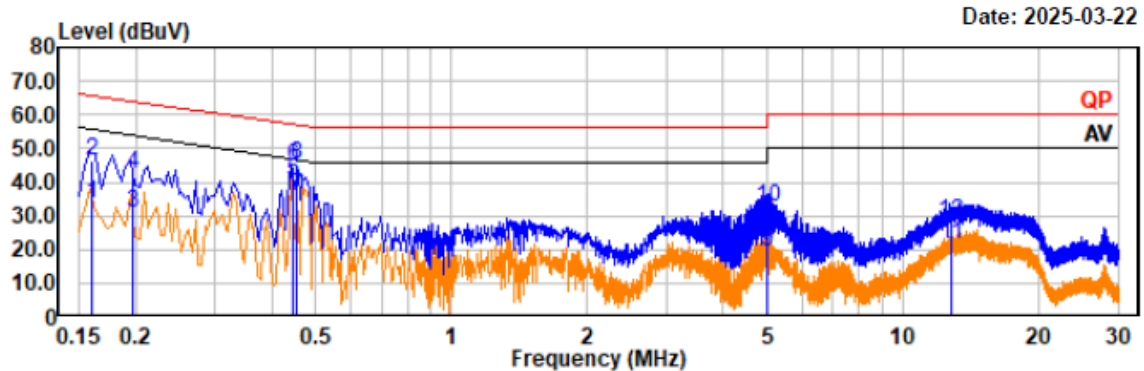
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.15	15.50	20.73	36.23	55.96	19.73	Neutral	Average
0.15	32.86	20.73	53.59	65.96	12.37	Neutral	QP
0.17	8.47	20.70	29.17	54.92	25.75	Neutral	Average
0.17	28.97	20.70	49.67	64.92	15.25	Neutral	QP
0.19	5.94	20.69	26.63	54.21	27.58	Neutral	Average
0.19	27.59	20.69	48.28	64.21	15.93	Neutral	QP
0.20	8.71	20.67	29.38	53.59	24.21	Neutral	Average
0.20	27.50	20.67	48.17	63.59	15.42	Neutral	QP
0.22	1.60	20.64	22.24	52.82	30.58	Neutral	Average
0.22	25.24	20.64	45.88	62.82	16.94	Neutral	QP
0.27	7.88	20.57	28.45	51.15	22.70	Neutral	Average
0.27	20.38	20.57	40.95	61.15	20.20	Neutral	QP

For C20Pro (Configuration 5)**Adapter #1**

Project No.: 2407Z105198E-RF
 Test Mode: NFC transmitting
 EUT Model: C20Pro

Temp/Humi/ATM: 23.5°C/55%/100.3kPa
 Tested by: Spike Gao
 Power Source: AC 120V/60Hz



Trace: 1

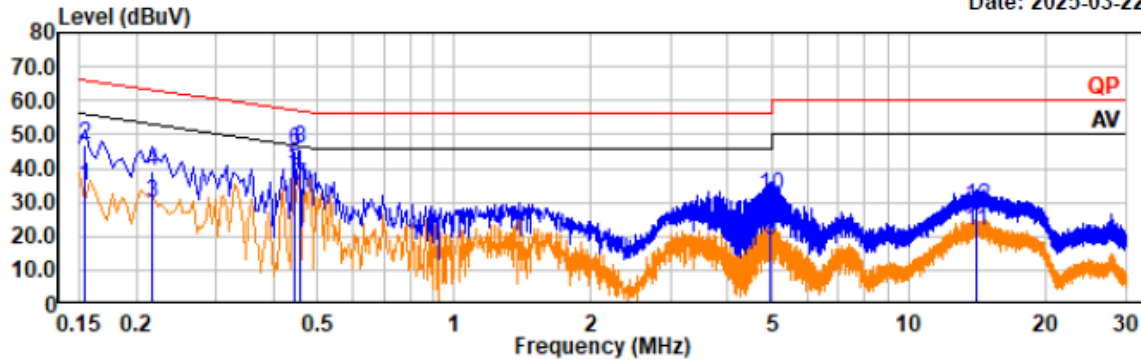
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.16	12.90	20.85	33.75	55.44	21.69	Line	Average
0.16	25.61	20.85	46.46	65.44	18.98	Line	QP
0.20	10.27	20.60	30.87	53.76	22.89	Line	Average
0.20	21.63	20.60	42.23	63.76	21.53	Line	QP
0.45	19.82	20.33	40.15	46.95	6.80	Line	Average
0.45	24.45	20.33	44.78	56.95	12.17	Line	QP
0.46	15.61	20.32	35.93	46.76	10.83	Line	Average
0.46	25.18	20.32	45.50	56.76	11.26	Line	QP
5.02	-1.36	20.84	19.48	50.00	30.52	Line	Average
5.02	11.60	20.84	32.44	60.00	27.56	Line	QP
12.74	0.52	20.74	21.26	50.00	28.74	Line	Average
12.74	7.52	20.74	28.26	60.00	31.74	Line	QP

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro

Temp/Humi/ATM: 23.5°C/55%/100.3kPa
Tested by: Spike Gao
Power Source: AC 120V/60Hz

Date: 2025-03-22



Trace: 1

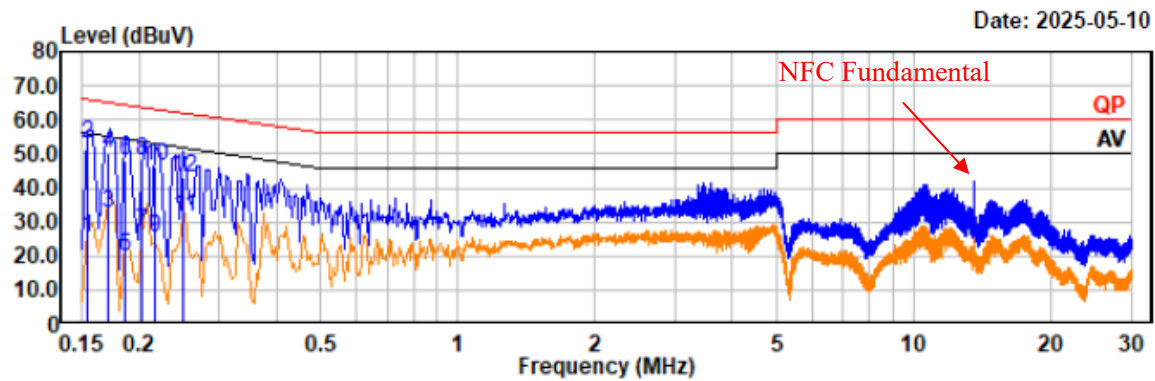
Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.15	14.03	20.72	34.75	55.81	21.06	Neutral	Average
0.15	26.35	20.72	47.07	65.81	18.74	Neutral	QP
0.22	9.32	20.64	29.96	52.96	23.00	Neutral	Average
0.22	18.76	20.64	39.40	62.96	23.56	Neutral	QP
0.45	20.18	20.43	40.61	46.93	6.32	Neutral	Average
0.45	24.96	20.43	45.39	56.93	11.54	Neutral	QP
0.46	14.46	20.42	34.88	46.75	11.87	Neutral	Average
0.46	25.29	20.42	45.71	56.75	11.04	Neutral	QP
4.98	-1.85	20.86	19.01	46.00	26.99	Neutral	Average
4.98	11.07	20.86	31.93	56.00	24.07	Neutral	QP
14.07	0.38	21.02	21.40	50.00	28.60	Neutral	Average
14.07	7.76	21.02	28.78	60.00	31.22	Neutral	QP

Adapter #2

Project No.: 2407Z105198E-RF
 Test Mode: NFC transmitting
 EUT Model: C20Pro

Temp/Humi/ATM: 21.5°C/53%/100.1kPa
 Tested by: Spike Gao
 Power Source: AC 120V/60Hz



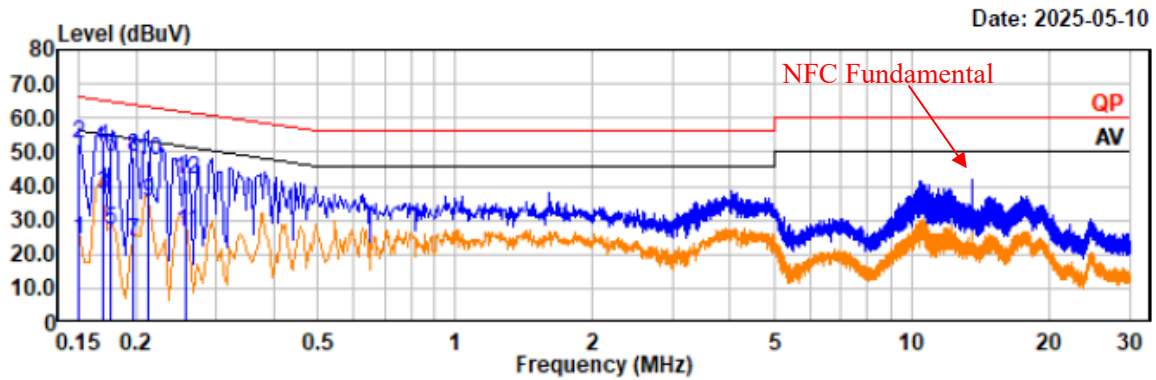
Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.15	4.36	20.89	25.25	55.75	30.50	Line	Average
0.15	31.86	20.89	52.75	65.75	13.00	Line	QP
0.17	11.72	20.77	32.49	54.91	22.42	Line	Average
0.17	29.56	20.77	50.33	64.91	14.58	Line	QP
0.19	-0.90	20.66	19.76	54.23	34.47	Line	Average
0.19	27.35	20.66	48.01	64.23	16.22	Line	QP
0.20	6.49	20.56	27.05	53.46	26.41	Line	Average
0.20	27.61	20.56	48.17	63.46	15.29	Line	QP
0.22	5.11	20.54	25.65	52.91	27.26	Line	Average
0.22	25.91	20.54	46.45	62.91	16.46	Line	QP
0.25	11.03	20.50	31.53	51.74	20.21	Line	Average
0.25	22.54	20.50	43.04	61.74	18.70	Line	QP

Project No.: 2407Z105198E-RF
 Test Mode: NFC transmitting
 EUT Model: C20Pro

Temp/Humi/ATM: 21.5°C/53%/100.1kPa
 Tested by: Spike Gao
 Power Source: AC 120V/60Hz



Trace: 1

Condition: IF B/W 9kHz PK/AV

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.15	3.39	20.73	24.12	55.98	31.86	Neutral	Average
0.15	31.68	20.73	52.41	65.98	13.57	Neutral	QP
0.17	16.96	20.71	37.67	55.00	17.33	Neutral	Average
0.17	30.53	20.71	51.24	65.00	13.76	Neutral	QP
0.18	6.12	20.69	26.81	54.64	27.83	Neutral	Average
0.18	28.10	20.69	48.79	64.64	15.85	Neutral	QP
0.20	3.29	20.67	23.96	53.71	29.75	Neutral	Average
0.20	27.70	20.67	48.37	63.71	15.34	Neutral	QP
0.21	14.51	20.65	35.16	53.12	17.96	Neutral	Average
0.21	27.00	20.65	47.65	63.12	15.47	Neutral	QP
0.26	5.78	20.59	26.37	51.50	25.13	Neutral	Average
0.26	21.22	20.59	41.81	61.50	19.69	Neutral	QP

FCC§15.225, §15.205 & §15.209 & RSS-210 ISSUE 11 CLAUSE ANNEX B B.6- RADIATED EMISSIONS TEST

Applicable Standard

As per FCC Part 15.225

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

As per RSS-210 ISSUE 11 Clause Annex B B.6 13.110-14.010 MHz

Devices in this band shall comply with the following requirements (the more strict limit applies at transition frequencies):

the field strength of any emission shall not exceed the following limits:

- i. 15.848 mV/m (84 dBμV/m) at 30 m, within the band 13.553-13.567 MHz
- ii. 334 μV/m (50.47 dBμV/m) at 30 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz
- iii. 106 μV/m (40.51 dBμV/m) at 30 m, within the bands 13.110-13.410 MHz and 13.710-14.010 MHz
- iv. RSS-Gen general field strength limits for frequencies outside the band 13.110 14.010 MHz

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

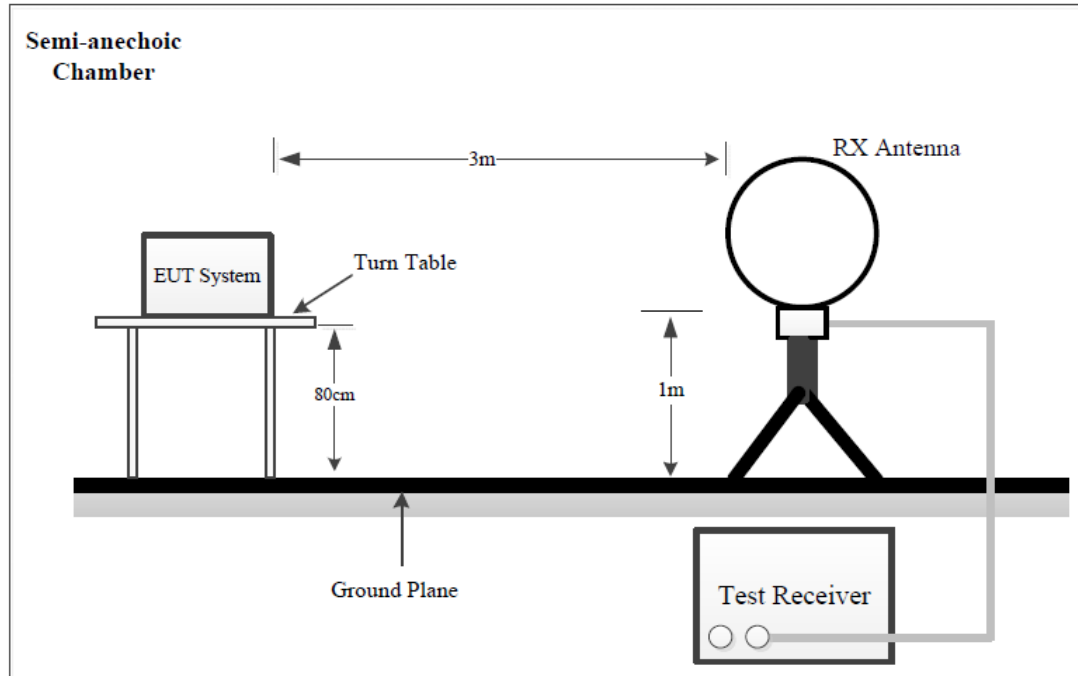
where

FS_{limit}	is the calculation of field strength at the limit distance, expressed in dBμV/m
FS_{max}	is the measured field strength, expressed in dBμV/m
$d_{\text{near field}}$	is the $\lambda/2\pi$ distance
d_{measure}	is the distance of the measurement point from the EUT
d_{limit}	is the reference distance or the distance of the $\lambda/2\pi$ point

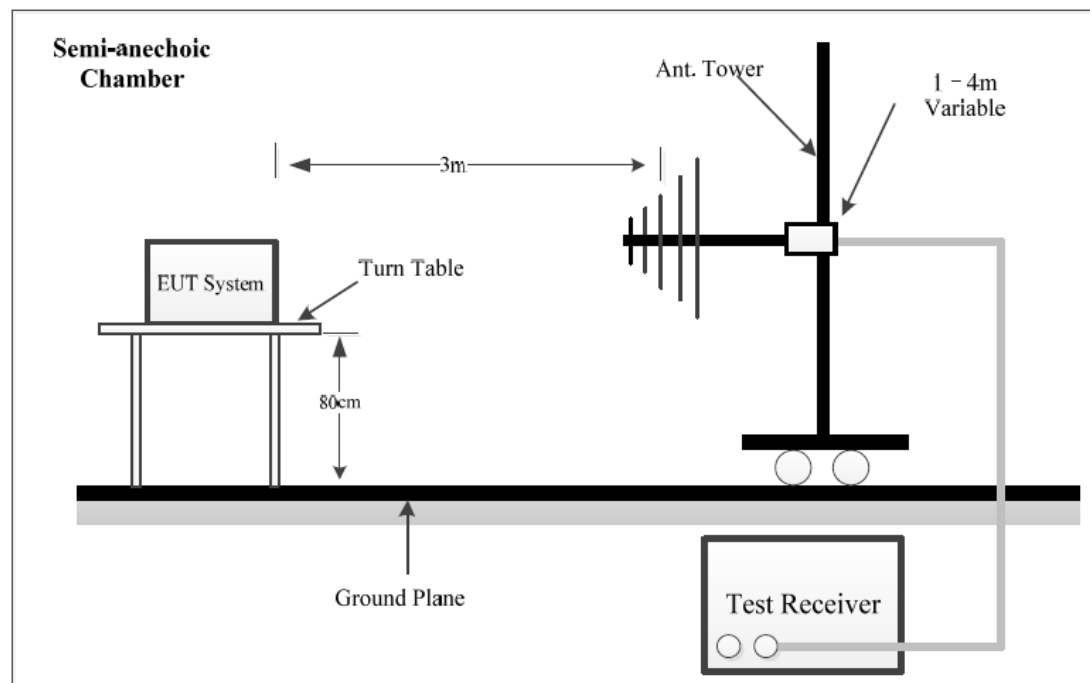
Note: dBμV/m=20 log(μV/m)

Test System Setup

9 kHz-30MHz:



30MHz-1GHz:



The radiated emission tests using the setup accordance with the ANSI C63.10-2013.
The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

According to FCC Rules, 47 CFR 15.33, the EUT emissions were investigated up to 1000 MHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	VBW	Measurement
9 kHz – 150 kHz	300Hz	1 kHz	PK
	200Hz	/	QP
150 kHz – 30 MHz	10 kHz	30 kHz	PK
	9kHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	PK
	120kHz	/	QP

4.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

Result & Margin Calculation

The Result is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Result (dBμV/m) = Meter Reading (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) – Result (dBμV/m)

The spurious emission from 9 kHz-30MHz of IC RSS-Gen standard, the unit of final result on the test plots are dBμV/m, so the limit should be added by 51.5dB from dBμA/m to dBμV/m.

Test Data

Frequency Range:	9kHz~30MHz	30MHz~1GHz
Temperature:	22.5~23.1℃	21.3~23.1℃
Relative Humidity:	48~54 %	44 ~54%
ATM Pressure:	100.1~100.2 kPa	100.1~100.3 kPa
Test Date:	2025-03-24~2025-05-08	2025-03-23~2025-05-08
Test Engineer:	Wlif Wu	Wlif Wu

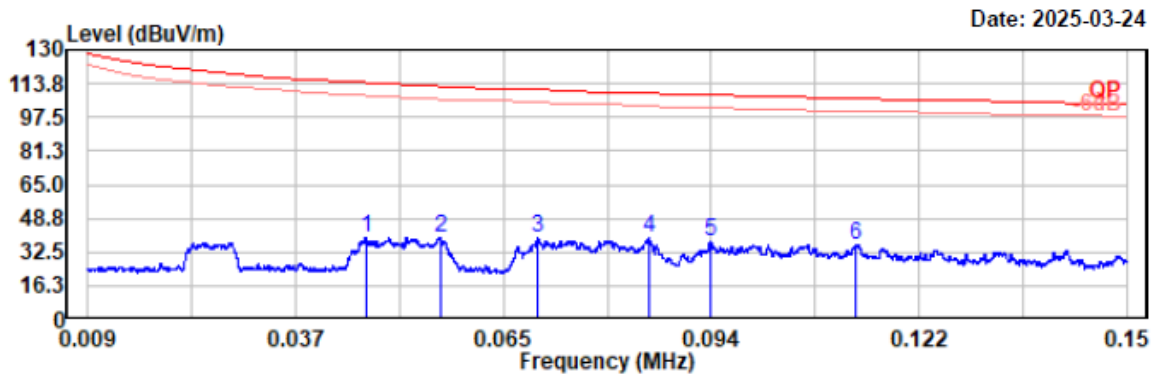
1) 9 kHz~150 kHz:

Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, parallel is worst case

For C20Pro (Configuration 4)**Adapter #1**

Project No.: 2407Z105198E-RF
 Test Mode: NFC transmitting
 EUT Model: C20Pro
 Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
 Tested by: Wlif Wu
 Power Source: AC120V/60Hz



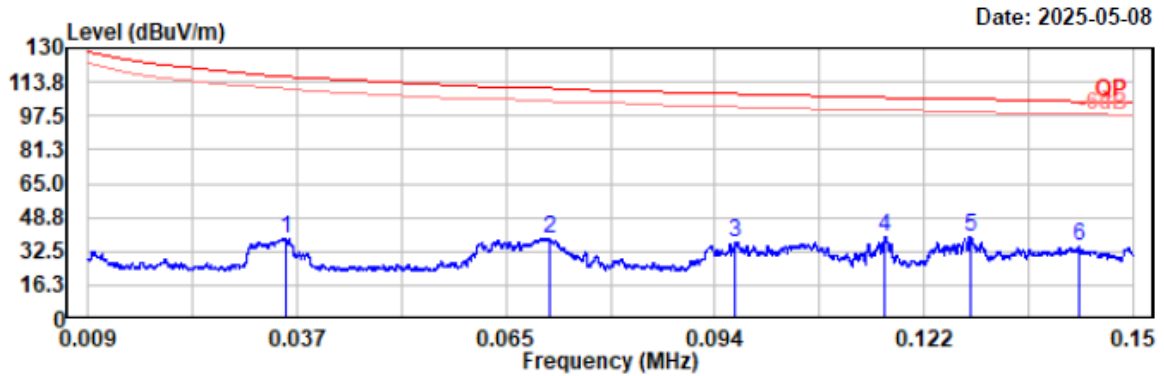
Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.047	19.44	19.91	39.35	114.23	74.88	Peak
0.057	19.88	19.91	39.79	112.52	72.73	Peak
0.070	19.43	19.81	39.24	110.69	71.45	Peak
0.085	19.26	19.76	39.02	109.01	69.99	Peak
0.093	17.56	19.79	37.35	108.20	70.85	Peak
0.113	16.37	19.73	36.10	106.53	70.43	Peak

Adapter #2

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 23.1°C/54%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



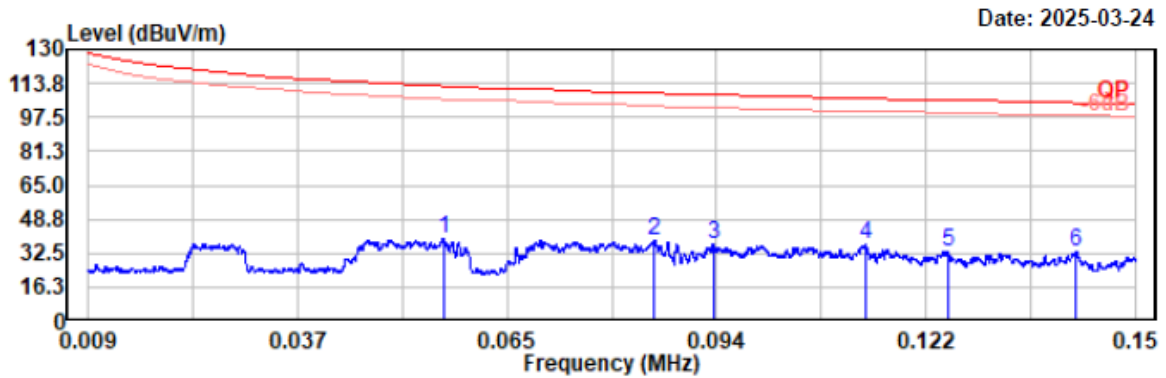
Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.036	18.78	19.91	38.69	116.58	77.89	Peak
0.071	18.81	19.80	38.61	110.55	71.94	Peak
0.096	16.95	19.76	36.71	107.93	71.22	Peak
0.117	19.50	19.73	39.23	106.27	67.04	Peak
0.128	20.02	19.73	39.75	105.46	65.71	Peak
0.143	14.88	19.73	34.61	104.52	69.91	Peak

For C20Pro (Configuration 5)**Adapter #1**

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 22.5°C/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



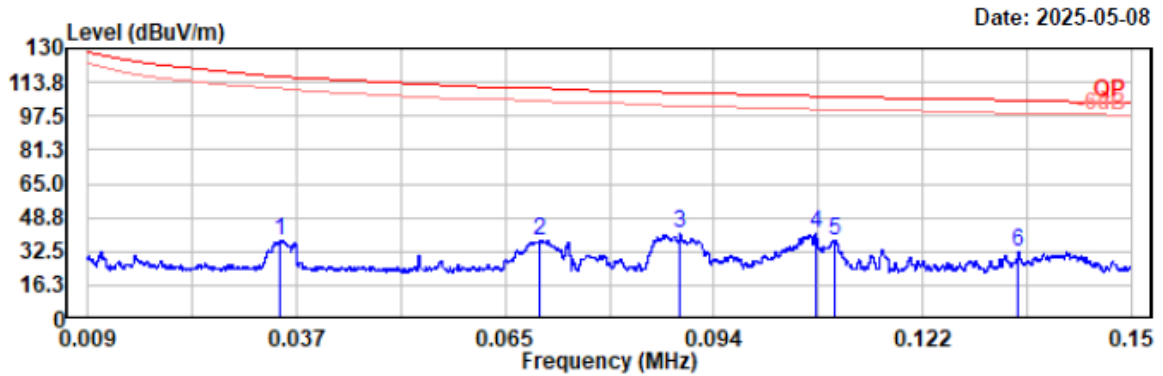
Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.057	19.61	19.91	39.52	112.52	73.00	Peak
0.085	18.92	19.76	38.68	108.99	70.31	Peak
0.093	17.32	19.79	37.11	108.22	71.11	Peak
0.114	17.30	19.73	37.03	106.49	69.46	Peak
0.125	13.11	19.73	32.84	105.69	72.85	Peak
0.142	13.15	19.73	32.88	104.56	71.68	Peak

Adapter #2

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 23.1°C/54%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.035	17.87	19.91	37.78	116.73	78.95	Peak
0.070	17.98	19.81	37.79	110.70	72.91	Peak
0.089	21.07	19.80	40.87	108.62	67.75	Peak
0.107	21.44	19.73	41.17	106.99	65.82	Peak
0.110	18.05	19.73	37.78	106.78	69.00	Peak
0.135	12.73	19.73	32.46	105.02	72.56	Peak

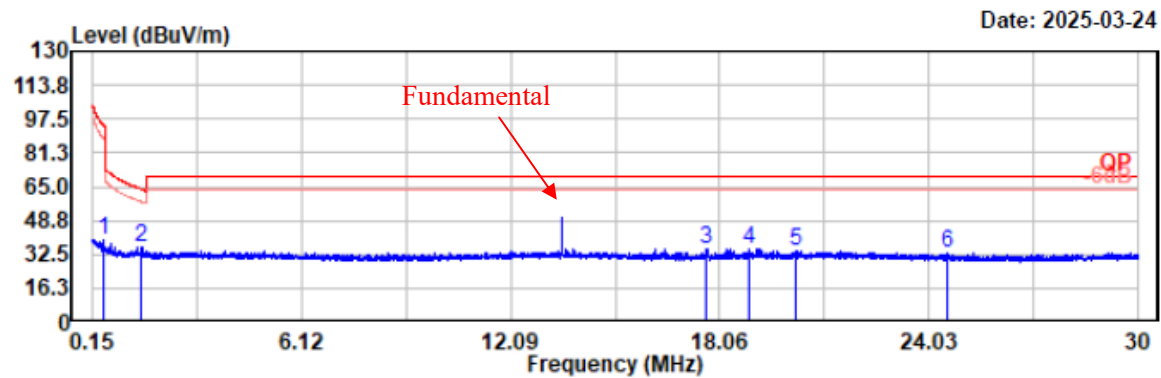
2) 150 kHz ~30MHz:

For C20Pro (Configuration 4)

Adapter #1

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



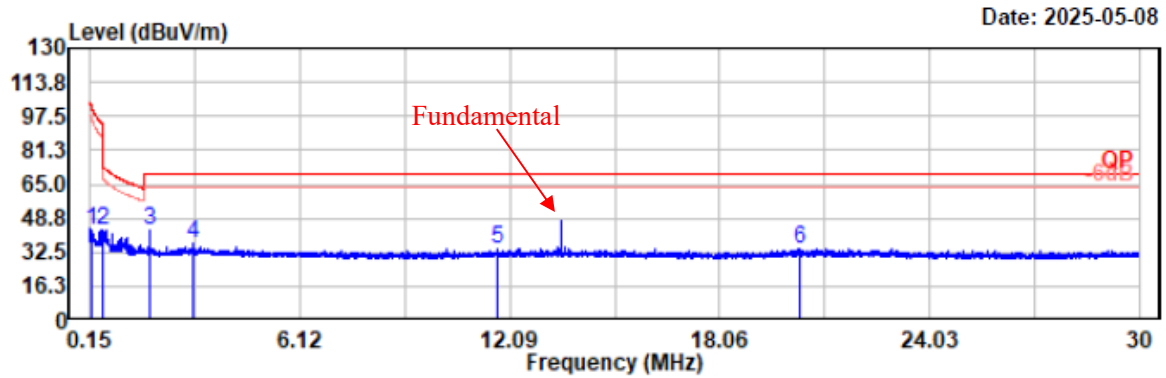
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.457	19.82	19.79	39.61	94.40	54.79	Peak
1.556	16.02	19.64	35.66	63.76	28.10	Peak
17.693	15.11	19.94	35.05	69.54	34.49	Peak
18.914	15.35	20.01	35.36	69.54	34.18	Peak
20.254	14.33	20.10	34.43	69.54	35.11	Peak
24.576	13.23	20.21	33.44	69.54	36.10	Peak

Adapter #2

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 23.1°C/54%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



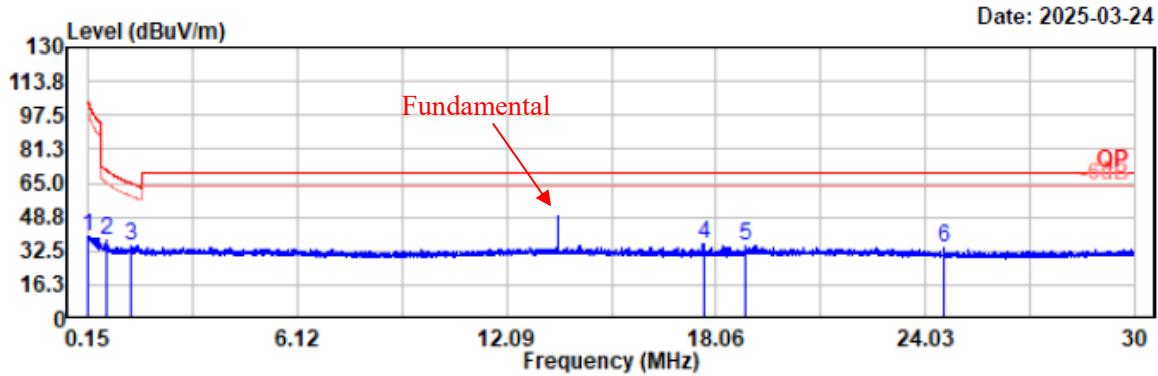
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.213	23.14	19.72	42.86	101.05	58.19	Peak
0.535	23.27	19.81	43.08	73.04	29.96	Peak
1.837	23.44	19.60	43.04	69.54	26.50	Peak
3.066	17.32	19.84	37.16	69.54	32.38	Peak
11.720	13.99	19.72	33.71	69.54	35.83	Peak
20.317	13.93	20.10	34.03	69.54	35.51	Peak

For C20Pro (Configuration 5)**Adapter #1**

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



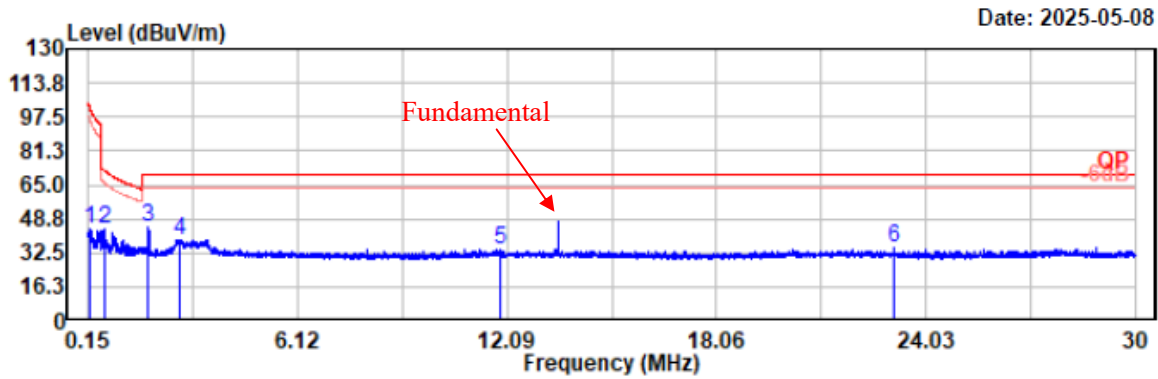
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.165	19.90	19.72	39.62	103.26	63.64	Peak
0.687	18.06	19.85	37.91	70.86	32.95	Peak
1.380	15.51	19.67	35.18	64.81	29.63	Peak
17.696	16.14	19.94	36.08	69.54	33.46	Peak
18.914	15.24	20.01	35.25	69.54	34.29	Peak
24.576	14.30	20.21	34.51	69.54	35.03	Peak

Adapter #2

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 23.1°C/54%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:10kHz VBW:30kHz SWT:auto

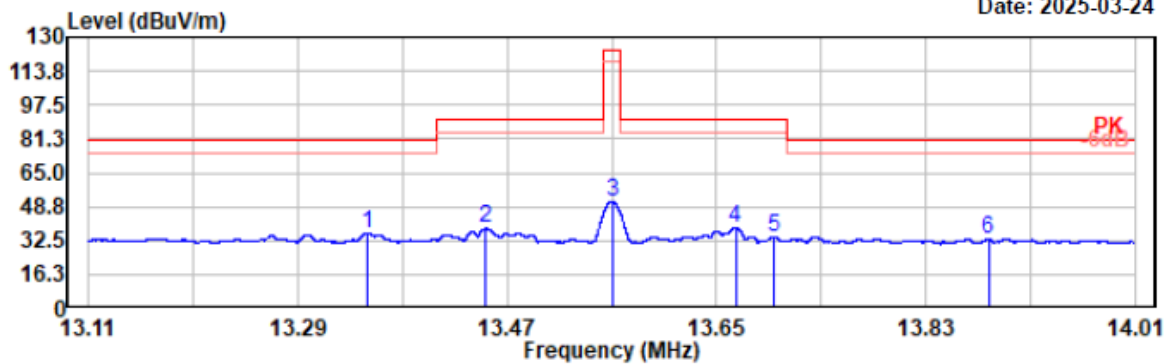
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.180	24.08	19.72	43.80	102.51	58.71	Peak
0.625	23.73	19.80	43.53	71.69	28.16	Peak
1.875	24.81	19.59	44.40	69.54	25.14	Peak
2.783	19.07	19.79	38.86	69.54	30.68	Peak
11.890	14.61	19.72	34.33	69.54	35.21	Peak
23.132	14.47	20.17	34.64	69.54	34.90	Peak

3) 13.11M-14.01M:**For C20Pro (Configuration 4)****Adapter #1**

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 22.5℃/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz

Date: 2025-03-24



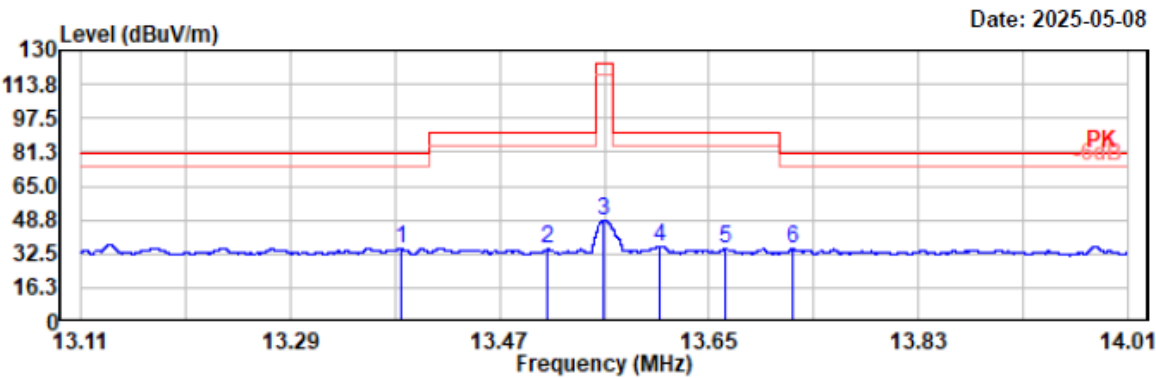
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
13.350	16.18	19.74	35.92	80.51	44.59	Peak
13.452	18.49	19.74	38.23	90.47	52.24	Peak
13.560	31.41	19.74	51.15	124.00	72.85	Peak
13.666	19.07	19.74	38.81	90.47	51.66	Peak
13.699	14.45	19.74	34.19	90.47	56.28	Peak
13.884	13.53	19.75	33.28	80.51	47.23	Peak

Adapter #2

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 23.1°C/54%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



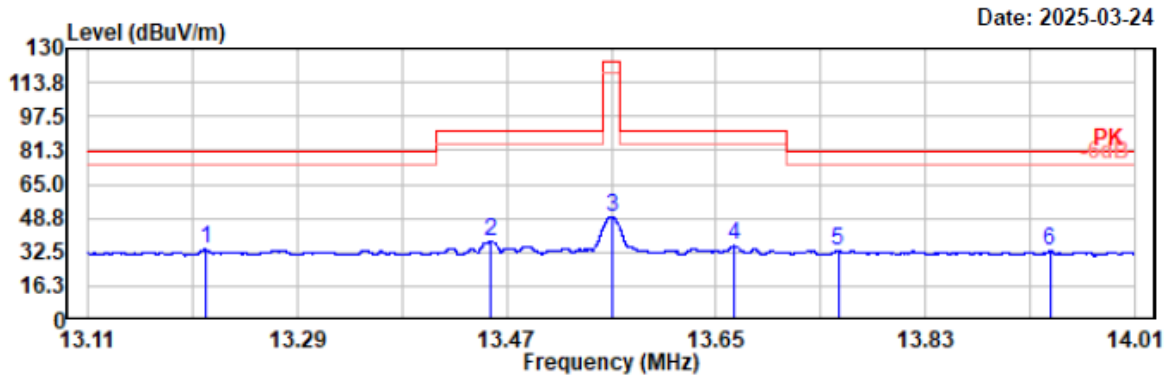
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
13.385	15.22	19.74	34.96	80.51	45.55	Peak
13.512	14.78	19.74	34.52	90.47	55.95	Peak
13.560	28.66	19.74	48.40	124.00	75.60	Peak
13.608	16.50	19.74	36.24	90.47	54.23	Peak
13.664	15.28	19.74	35.02	90.47	55.45	Peak
13.722	14.94	19.74	34.68	80.51	45.83	Peak

For C20Pro (Configuration 5)**Adapter #1**

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 22.5°C/48%/100.2kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



Condition: PK RBW:10kHz VBW:30kHz SWT:auto

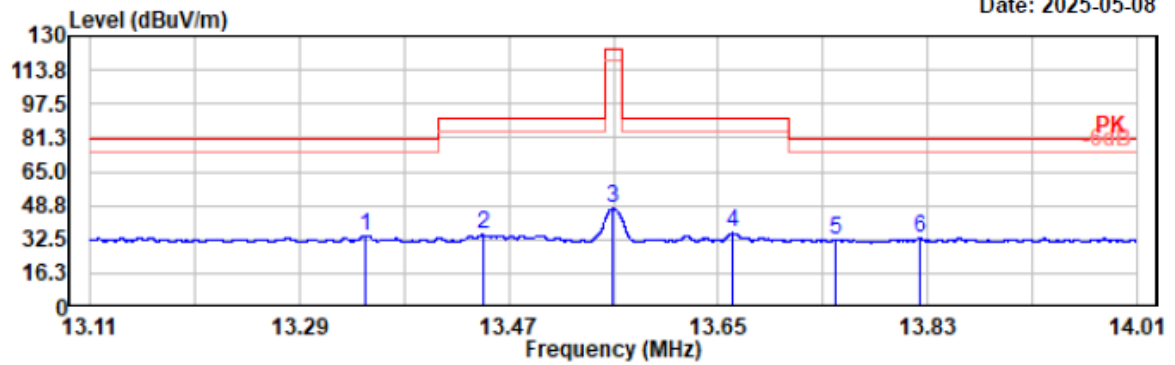
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
13.211	13.89	19.74	33.63	80.51	46.88	Peak
13.456	17.77	19.74	37.51	90.47	52.96	Peak
13.560	29.66	19.74	49.40	124.00	74.60	Peak
13.665	15.69	19.74	35.43	90.47	55.04	Peak
13.755	13.63	19.75	33.38	80.51	47.13	Peak
13.937	13.24	19.75	32.99	80.51	47.52	Peak

Adapter #2

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 23.1°C/54%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-05-08



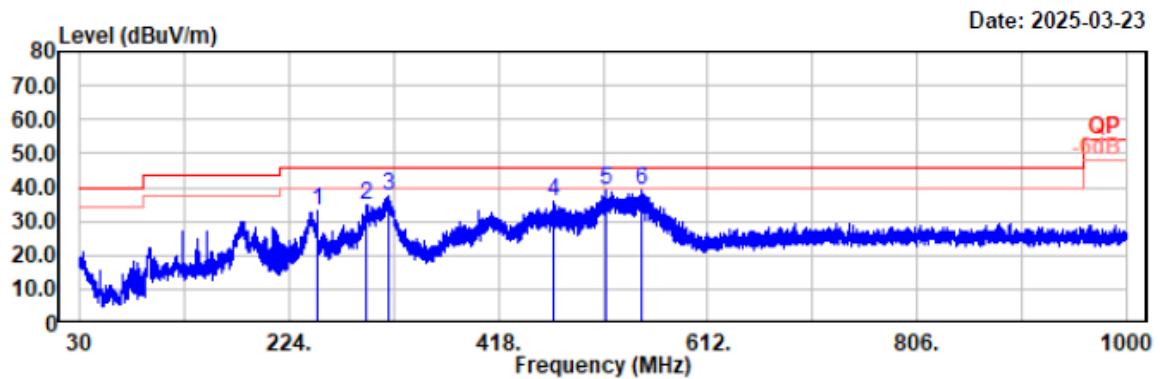
Condition: PK RBW:10kHz VBW:30kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
13.347	14.68	19.74	34.42	80.51	46.09	Peak
13.448	14.93	19.74	34.67	90.47	55.80	Peak
13.560	27.52	19.74	47.26	124.00	76.74	Peak
13.663	15.69	19.74	35.43	90.47	55.04	Peak
13.751	12.86	19.75	32.61	80.51	47.90	Peak
13.823	13.24	19.75	32.99	80.51	47.52	Peak

4) 30MHz-1000MHz:**For C20Pro (Configuration 4)****Adapter #1**

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 21.3℃/44%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



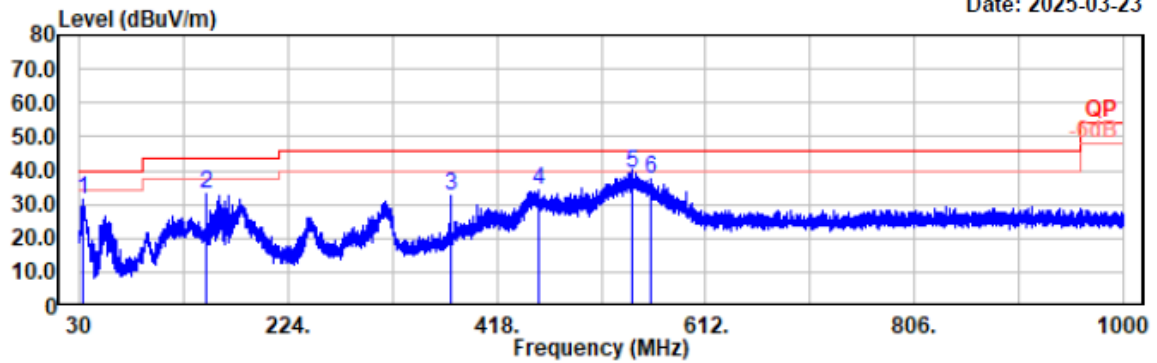
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
250.00	44.39	-11.41	32.98	46.00	13.02	Horizontal	Peak
294.62	43.86	-9.30	34.56	46.00	11.44	Horizontal	Peak
316.64	46.20	-8.85	37.35	46.00	8.65	Horizontal	Peak
468.54	40.01	-4.24	35.77	46.00	10.23	Horizontal	Peak
518.40	42.47	-3.41	39.06	46.00	6.94	Horizontal	Peak
549.82	41.81	-2.76	39.05	46.00	6.95	Horizontal	Peak

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 21.3°C/44%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-23



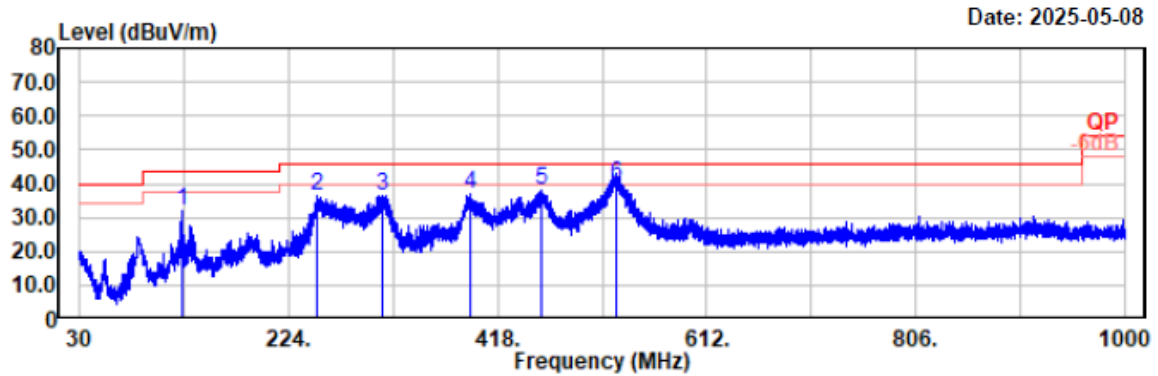
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
33.20	38.57	-7.06	31.51	40.00	8.49	Vertical	Peak
148.44	43.99	-11.13	32.86	43.50	10.64	Vertical	Peak
374.93	40.03	-7.25	32.78	46.00	13.22	Vertical	Peak
457.09	38.94	-4.69	34.25	46.00	11.75	Vertical	Peak
544.29	42.15	-2.98	39.17	46.00	6.83	Vertical	QP
561.56	40.35	-2.56	37.79	46.00	8.21	Vertical	Peak

Adapter #2

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 23.1°C/54%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

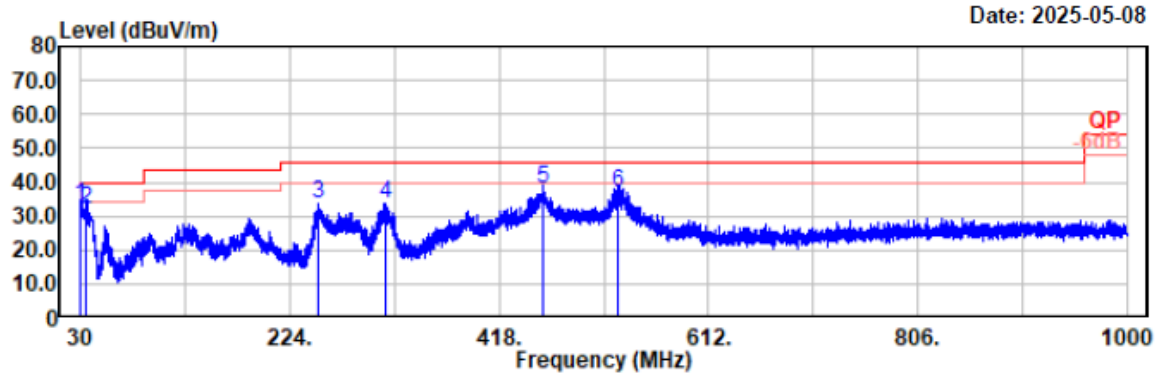


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
124.48	42.04	-9.94	32.10	43.50	11.40	Horizontal	Peak
249.51	47.78	-11.41	36.37	46.00	9.63	Horizontal	Peak
311.11	45.51	-8.99	36.52	46.00	9.48	Horizontal	Peak
392.10	43.67	-6.64	37.03	46.00	8.97	Horizontal	Peak
458.45	43.01	-4.67	38.34	46.00	7.66	Horizontal	Peak
527.58	42.77	-3.31	39.46	46.00	6.54	Horizontal	QP

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 23.1°C/54%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:100kHz VBW:300kHz SWT:auto

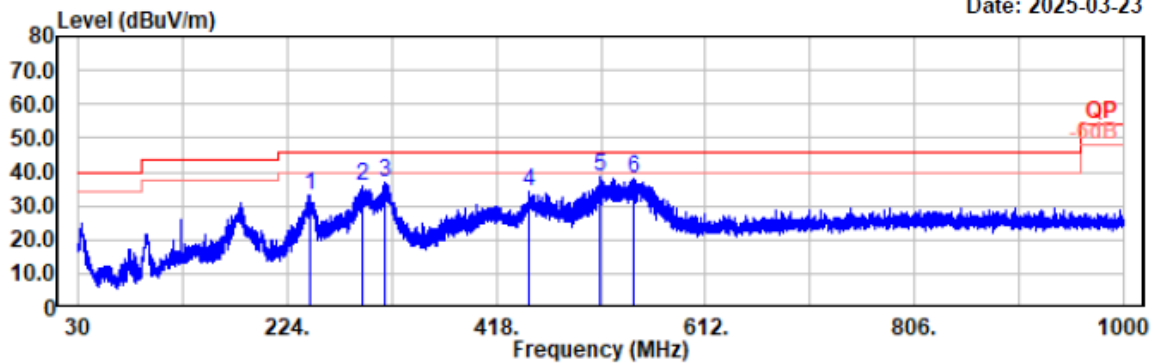
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
30.19	38.53	-5.65	32.88	40.00	7.12	Vertical	QP
35.69	40.69	-8.51	32.18	40.00	7.82	Vertical	QP
250.48	45.13	-11.41	33.72	46.00	12.28	Vertical	Peak
313.05	42.86	-8.94	33.92	46.00	12.08	Vertical	Peak
458.84	42.71	-4.67	38.04	46.00	7.96	Vertical	QP
528.77	40.17	-3.27	36.90	46.00	9.10	Vertical	QP

For C20Pro (Configuration 5)**Adapter #1**

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 21.3°C/44%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-23



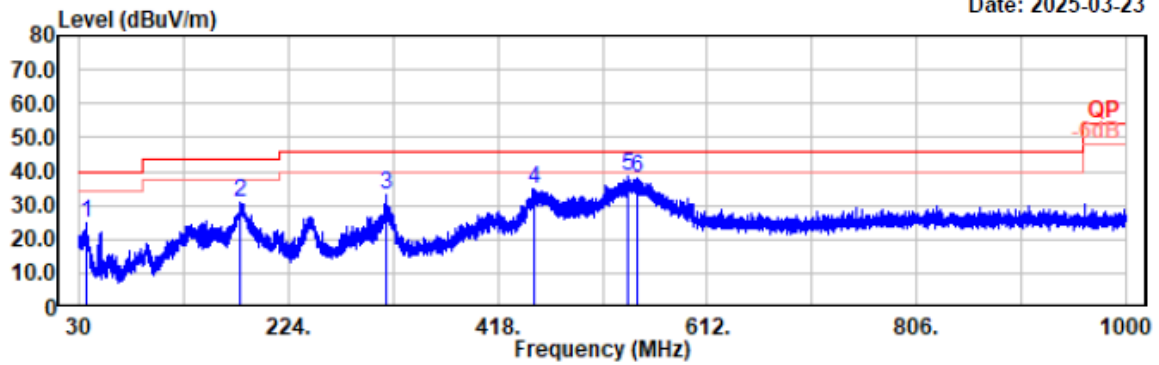
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
244.47	44.48	-11.47	33.01	46.00	12.99	Horizontal	Peak
293.06	45.03	-9.28	35.75	46.00	10.25	Horizontal	Peak
314.40	45.78	-8.91	36.87	46.00	9.13	Horizontal	Peak
448.46	38.99	-4.93	34.06	46.00	11.94	Horizontal	Peak
514.90	41.82	-3.43	38.39	46.00	7.61	Horizontal	Peak
546.04	41.09	-2.93	38.16	46.00	7.84	Horizontal	Peak

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 21.3 °C /44%/100.3kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Date: 2025-03-23



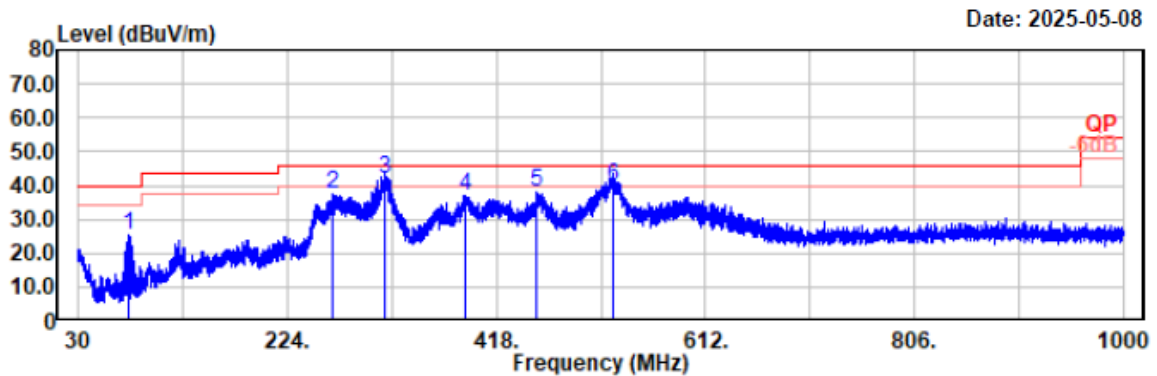
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
35.92	33.50	-8.67	24.83	40.00	15.17	Vertical	Peak
179.19	43.05	-12.29	30.76	43.50	12.74	Vertical	Peak
315.18	41.84	-8.89	32.95	46.00	13.05	Vertical	Peak
452.14	39.46	-4.83	34.63	46.00	11.37	Vertical	Peak
538.86	41.41	-3.02	38.39	46.00	7.61	Vertical	Peak
547.40	40.88	-2.86	38.02	46.00	7.98	Vertical	Peak

Adapter #2

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 23.1°C/54%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

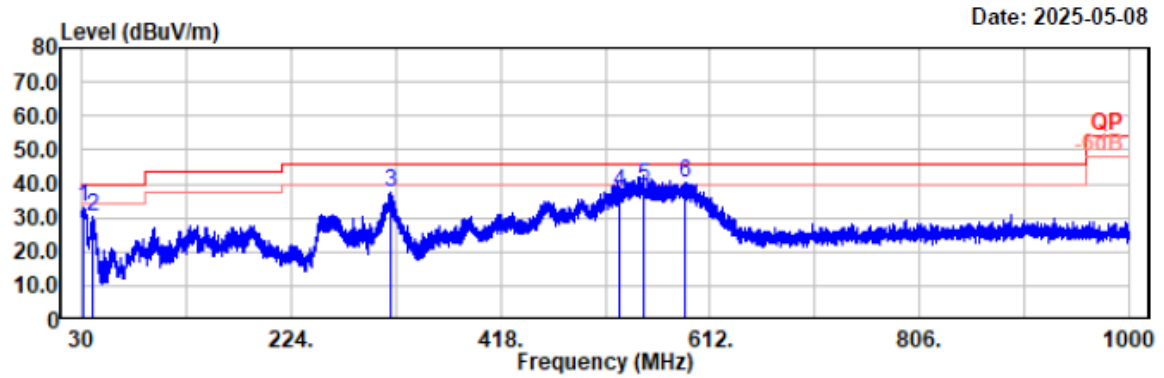


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
75.88	42.56	-17.16	25.40	40.00	14.60	Horizontal	Peak
266.49	47.90	-10.14	37.76	46.00	8.24	Horizontal	Peak
314.67	50.72	-8.90	41.82	46.00	4.18	Horizontal	QP
388.80	43.68	-6.71	36.97	46.00	9.03	Horizontal	Peak
455.73	42.87	-4.70	38.17	46.00	7.83	Horizontal	Peak
526.60	43.07	-3.33	39.74	46.00	6.26	Horizontal	QP

Project No.: 2407Z105198E-RF
Test Mode: NFC transmitting
EUT Model: C20Pro
Test distance: 3m

Temp/Humi/ATM: 23.1°C/54%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
31.75	39.41	-6.27	33.14	40.00	6.86	Vertical	Peak
40.19	42.25	-11.84	30.41	40.00	9.59	Vertical	Peak
315.76	46.24	-8.87	37.37	46.00	8.63	Vertical	Peak
527.61	40.57	-3.31	37.26	46.00	8.74	Vertical	QP
551.14	42.13	-2.72	39.41	46.00	6.59	Vertical	QP
588.53	40.78	-2.52	38.26	46.00	7.74	Vertical	QP

FCC§15.225(e) & RSS-210 ISSUE 11 CLAUSE ANNEX B B.6 - FREQUENCY STABILITY

Applicable Standard

FCC§15.225(e)

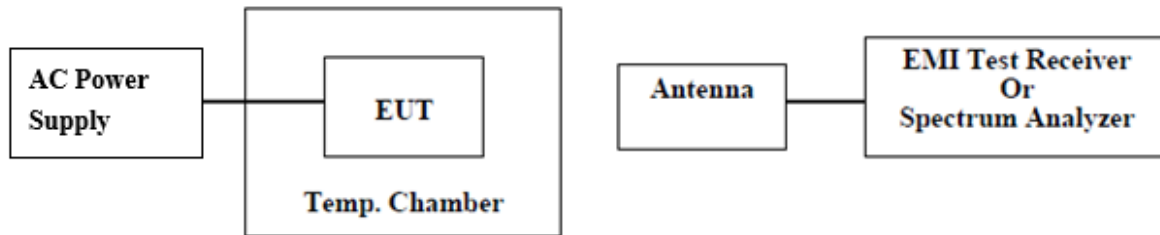
The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a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

RSS-210 ISSUE 11 Clause Annex B B.6

the carrier frequency stability shall not exceed ± 100 ppm

Test Procedure

- a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.
- b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary. NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.
- c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
- e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
- f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
- g) Measure the frequency at each of frequencies specified in 5.6.
- h) Switch OFF the EUT but do not switch OFF the oscillator heater.
- i) Lower the chamber temperature by not more than 10°C , and allow the temperature inside the chamber to stabilize.
- j) Repeat step f) through step i) down to the lowest specified temperature.

EUT Setup**Test Data**

Test Mode:	Transmitting	Test Engineer:	Wlif Wu
Test Date:	2025-06-30~2025-07-01	Environment:	Temp.: 22.5~23.4°C Humi.: 51~58% Atm:100.1~100.2kPa

Test Result: Compliant

Note: After verification, the test results of NFC are only affected by the Customer Display, so only the test results of Configuration 4 are reported.

For C20Pro (Configuration 4)**Adapter #1****Chain1**

F₀=13.56MHz						
Power Supply(V_{AC})	Temperature (°C)	Measured Frequency (MHz)	Frequency Error (ppm)	RSS-210 Limit (ppm)	Frequency Error (%)	Part 15.225 Limit
120	-20	13.559769	-17.035398	100	-0.001704	±0.01%
	-10	13.559876	-9.144543	100	-0.000914	±0.01%
	0	13.559988	-0.884956	100	-0.000088	±0.01%
	10	13.560103	7.595870	100	0.000760	±0.01%
	20	13.560203	14.970501	100	0.001497	±0.01%
	30	13.560535	39.454277	100	0.003945	±0.01%
	40	13.560373	27.507375	100	0.002751	±0.01%
	50	13.560230	16.961652	100	0.001696	±0.01%
108	20	13.559746	-18.731563	100	-0.001873	±0.01%
132	20	13.560363	26.769912	100	0.002677	±0.01%

Chain2

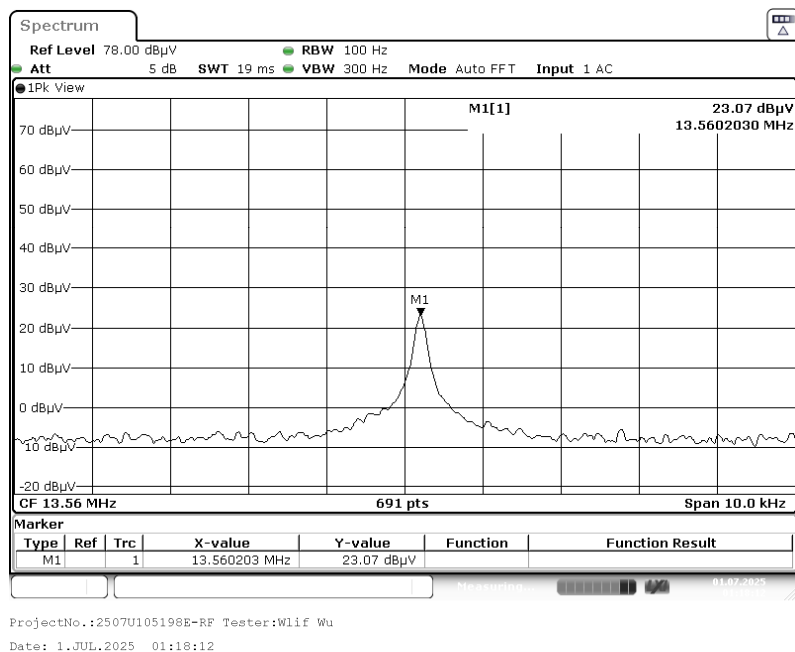
F₀=13.56MHz						
Power Supply(V_{AC})	Temperature (°C)	Measured Frequency (MHz)	Frequency Error (ppm)	RSS-210 Limit (ppm)	Frequency Error (%)	Part 15.225 Limit
120	-20	13.560065	4.793510	100	0.000479	±0.01%
	-10	13.560053	3.908555	100	0.000391	±0.01%
	0	13.559925	-5.530973	100	-0.000553	±0.01%
	10	13.559838	-11.946903	100	-0.001195	±0.01%
	20	13.560203	14.970501	100	0.001497	±0.01%
	30	13.560203	14.970501	100	0.001497	±0.01%
	40	13.560413	30.457227	100	0.003046	±0.01%
	50	13.560390	28.761062	100	0.002876	±0.01%
108	20	13.559909	-6.710914	100	-0.000671	±0.01%
132	20	13.560245	18.067847	100	0.001807	±0.01%

Adapter #2**Chain1**

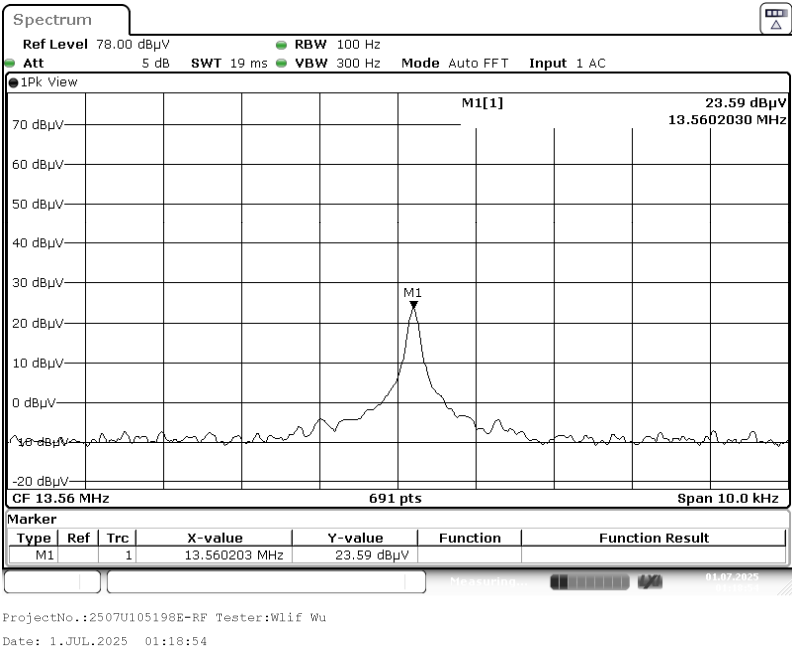
F₀=13.56MHz						
Power Supply(V_{AC})	Temperature (°C)	Measured Frequency (MHz)	Frequency Error (ppm)	RSS-210 Limit (ppm)	Frequency Error (%)	Part 15.225 Limit
120	-20	13.559837	-12.020649	100	-0.001202	±0.01%
	-10	13.559849	-11.135693	100	-0.001114	±0.01%
	0	13.559987	-0.958702	100	-0.000096	±0.01%
	10	13.560104	7.669617	100	0.000767	±0.01%
	20	13.560174	12.831858	100	0.001283	±0.01%
	30	13.560378	27.876106	100	0.002788	±0.01%
	40	13.560539	39.749263	100	0.003975	±0.01%
	50	13.560602	44.395280	100	0.004440	±0.01%
108	20	13.559735	-19.542773	100	-0.001954	±0.01%
132	20	13.560655	48.303835	100	0.004830	±0.01%

Chain2

$F_0 = 13.56\text{MHz}$						
Power Supply(V_{AC})	Temperature ($^{\circ}\text{C}$)	Measured Frequency (MHz)	Frequency Error (ppm)	RSS-210 Limit (ppm)	Frequency Error (%)	Part 15.225 Limit
120	-20	13.559891	-8.038348	100	-0.000804	$\pm 0.01\%$
	-10	13.559958	-3.097345	100	-0.000310	$\pm 0.01\%$
	0	13.559885	-8.480826	100	-0.000848	$\pm 0.01\%$
	10	13.560005	0.368732	100	0.000037	$\pm 0.01\%$
	20	13.560174	12.831858	100	0.001283	$\pm 0.01\%$
	30	13.560529	39.011799	100	0.003901	$\pm 0.01\%$
	40	13.560474	34.955752	100	0.003496	$\pm 0.01\%$
	50	13.560454	33.480826	100	0.003348	$\pm 0.01\%$
108	20	13.559790	-15.486726	100	-0.001549	$\pm 0.01\%$
132	20	13.560511	37.684366	100	0.003768	$\pm 0.01\%$

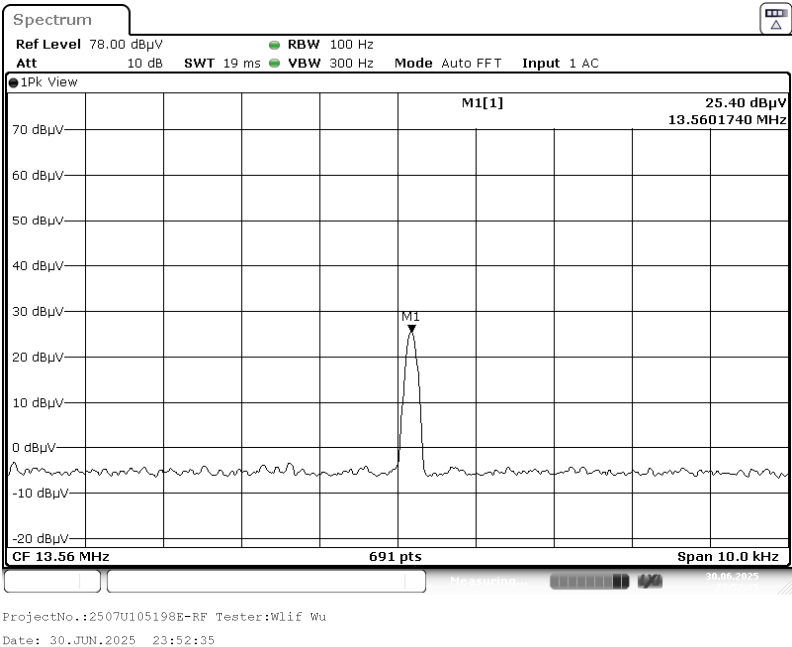
For C20Pro (Configuration 4)**Adapter #1
Chain1**

Chain2

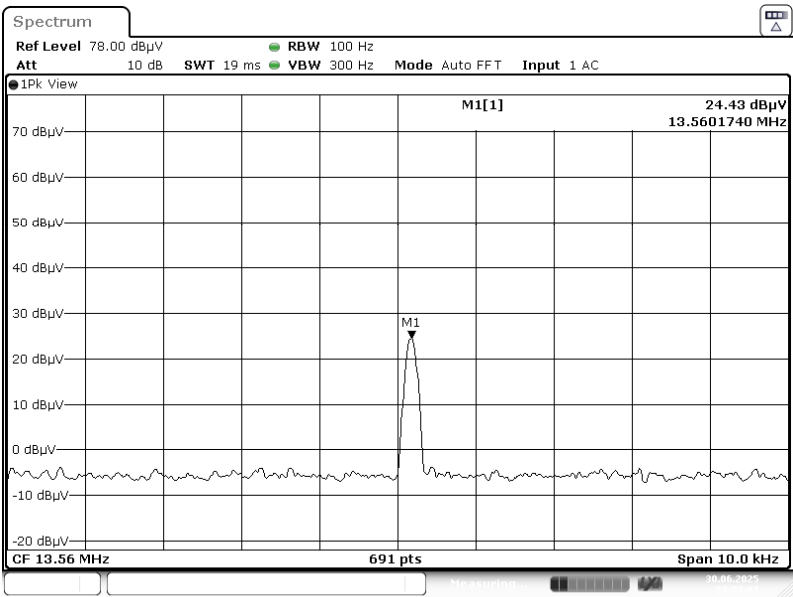


Adapter #2

Chain1



Chain2



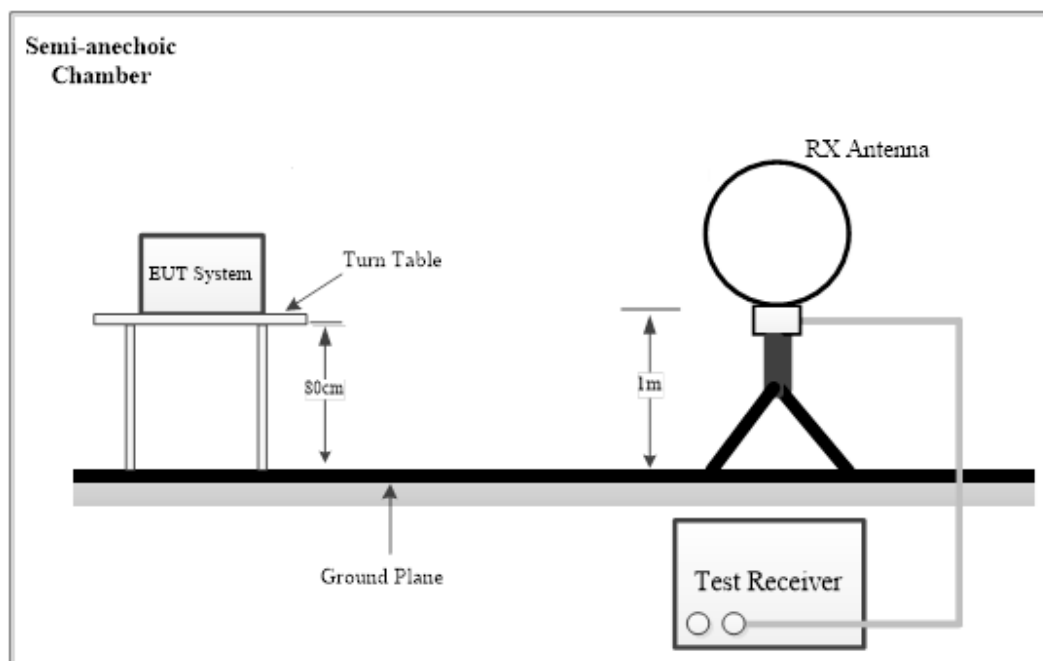
ProjectNo.:2507U105198E-RF Tester:Wlif Wu
Date: 30.JUN.2025 23:57:02

FCC§15.215(c) - 20dB EMISSION BANDWIDTH TESTING**Requirement**

Per 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

Test Setup

Test Data

Test Mode:	Transmitting	Test Engineer:	Wlif Wu
Test Date:	2025-07-01	Environment:	Temp.: 23.4°C Humi.: 58% Atm: 100.1kPa

Test Result: Compliant

Note: After verification, the test results of NFC are only affected by the Customer Display, so only the test results of Configuration 4 are reported.

For C20Pro (Configuration 4)***Adapter #1******Chain1***

Frequency (MHz)	20 dB Bandwidth (kHz)
13.56	4.43

Chain2

Frequency (MHz)	20 dB Bandwidth (kHz)
13.56	7.06

Adapter #2***Chain1***

Frequency (MHz)	20 dB Bandwidth (kHz)
13.56	3.85

Chain2

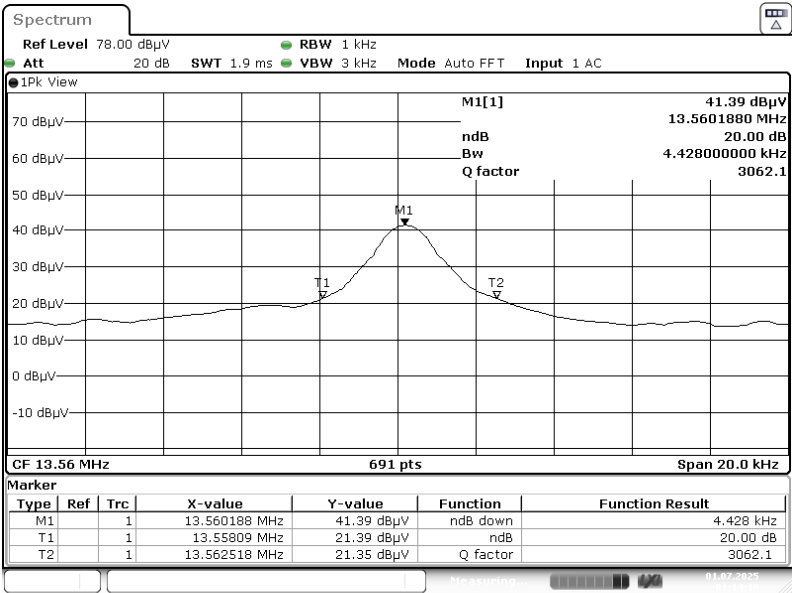
Frequency (MHz)	20 dB Bandwidth (kHz)
13.56	6.22

For C20Pro (Configuration 4)

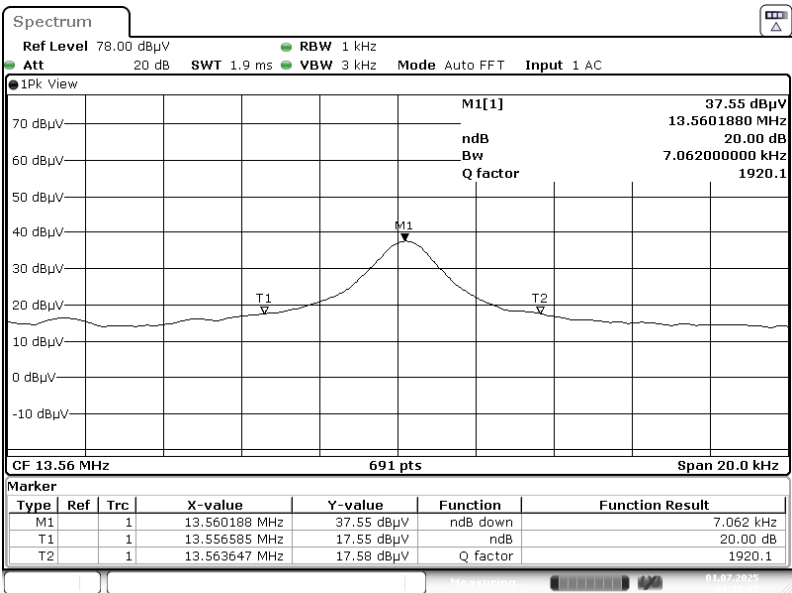
20 dB Emission Bandwidth-13.56MHz

Adapter #1

Chain1

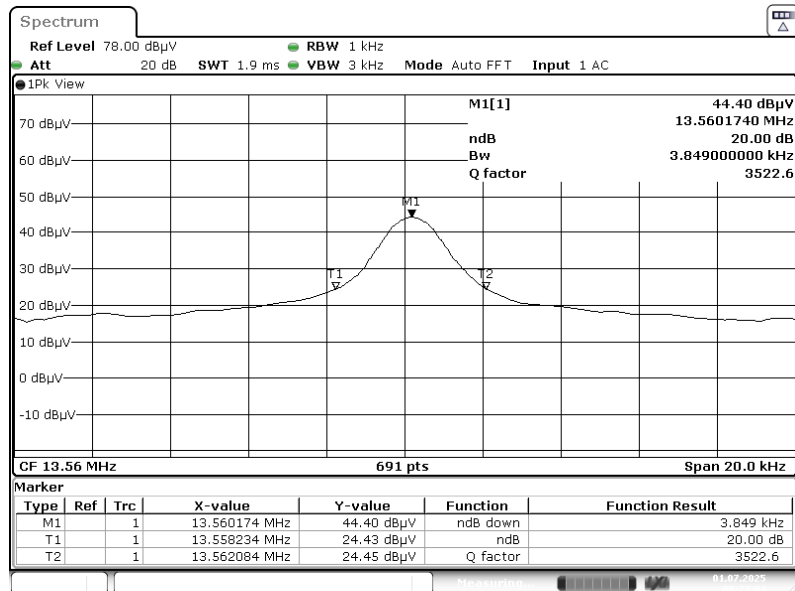


Chain2

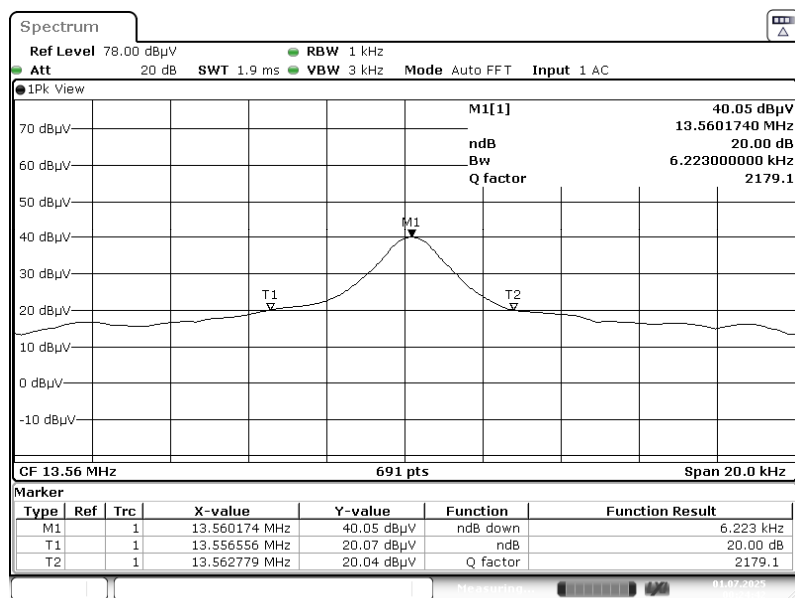


Adapter #2

Chain1



Chain2



ISED RSS-GEN ISSUE 5 CLAUSE 6.7 – OCCUPIED BANDWIDTH

Applicable Standard

ISED RSS-GEN Issue 5 Clause 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

Test Procedure

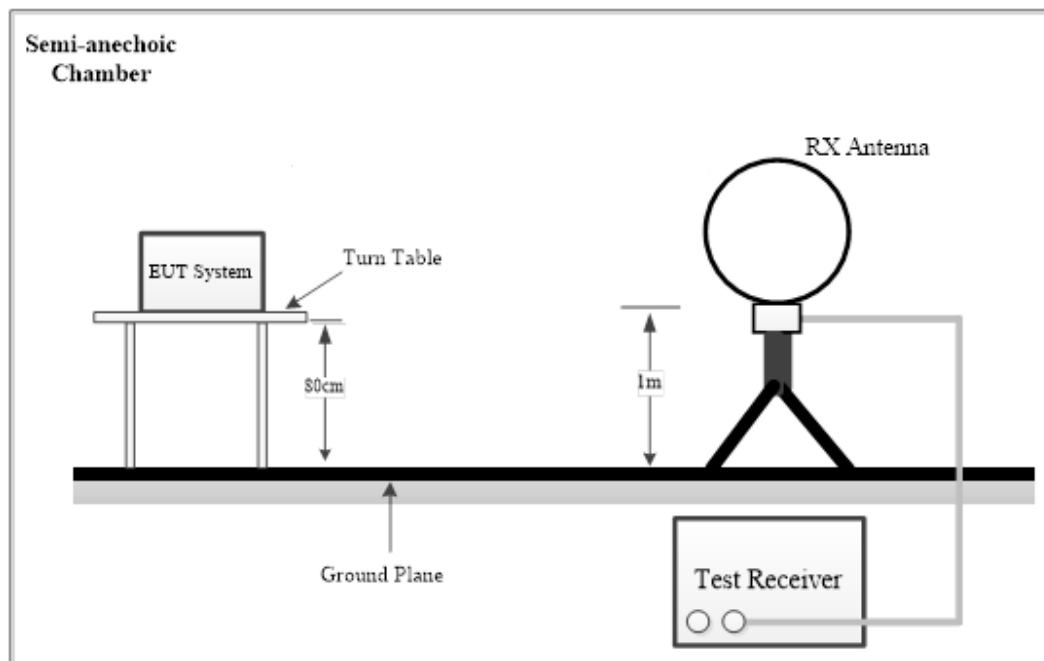
The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

Test Setup



Test Data

Test Mode:	Transmitting	Test Engineer:	Wlif Wu
Test Date:	2025-07-01	Environment:	Temp.: 23.4°C Humi.: 58% Atm: 100.1kPa

Test Result: Compliant.

Note: After verification, the test results of NFC are only affected by the Customer Display, so only the test results of Configuration 4 are reported.

For C20Pro (Configuration 4)***Adapter #1******Chain1***

Frequency (MHz)	99% Occupied Bandwidth (kHz)
13.56	2.04

Chain2

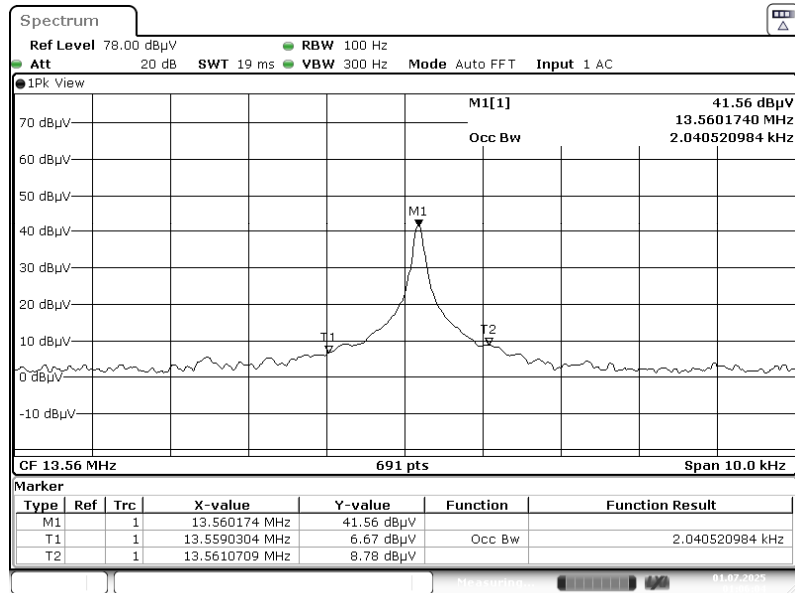
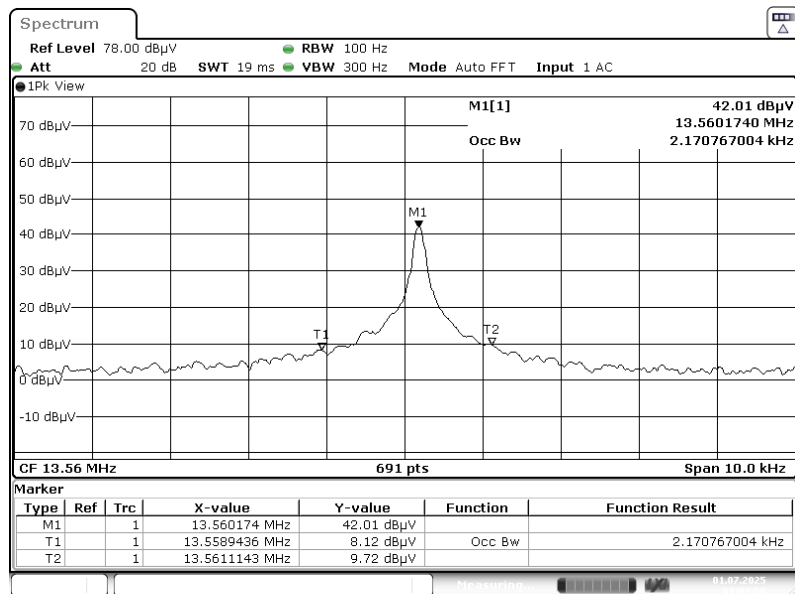
Frequency (MHz)	99% Occupied Bandwidth (kHz)
13.56	2.17

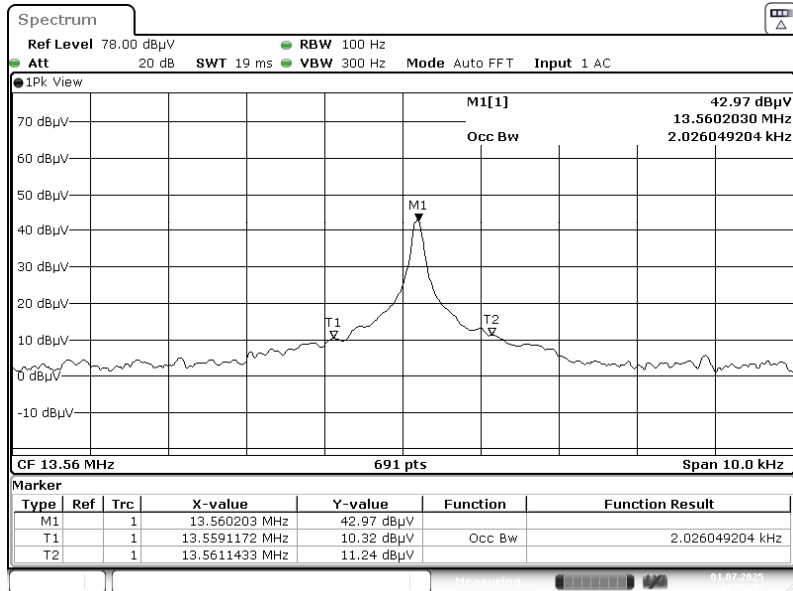
Adapter #2***Chain1***

Frequency (MHz)	99% Occupied Bandwidth (kHz)
13.56	2.03

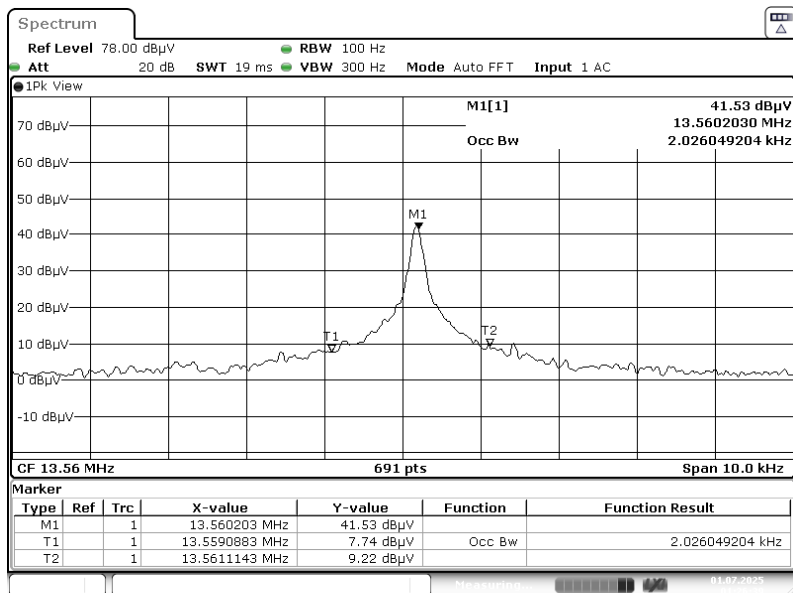
Chain1

Frequency (MHz)	99% Occupied Bandwidth (kHz)
13.56	2.03

For C20Pro (Configuration 4)**99% Occupied Bandwidth -13.56MHz****Adapter #1****Chain1****Chain2**

Adapter #2
Chain1

ProjectNo.:2507U105198E-RF Tester:Wlif Wu
Date: 1.JUL.2025 01:25:39

Chain2

ProjectNo.:2507U105198E-RF Tester:Wlif Wu
Date: 1.JUL.2025 01:26:39

EUT PHOTOGRAPHS

Please refer to the attachment 2407Z105198E-EXP EUT EXTERNAL PHOTOGRAPHS and 2407Z105198E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2407Z105198E-RF-TSP TEST SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

***** END OF REPORT *****