



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2655-1, XT2655-2, XT2655-3
FCC ID : IHDT56AU1
STANDARD : FCC Part 15 Subpart C §15.209
CLASSIFICATION : (DCD) Part 15 Low Power Transmitter Below 1705 kHz
TEST DATE(S) : Dec. 14, 2025 ~ Dec. 15, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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History of this test report

Report No.	Version	Description	Issued Date
FR5N2126E	01	Initial issue of report	Dec. 23, 2025



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	2.1049	20dB Bandwidth	Reporting Only	-
3.1	2.1049	99% Occupied Bandwidth	Reporting Only	-
3.2	15.209	Radiated Emission	Pass	Under limit 16.74 dB at 862.99 MHz
Remark: Not required means after assessing, test items are not necessary to carry out.				

Note: This is a variant report, the change note could be referred to the XT2655-1, XT2655-2, XT2655-3_Operational Description of Product Equality Declaration which is exhibit separately. Based on the similarity between current and previous project, only the related test cases from original test report (Sporton Report Number FR4N2802E) were verified for the differences.

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2655-1, XT2655-2, XT2655-3
FCC ID	IHDT56AU1
HW Version	DVT1
SW Version	WWL36.23
WPT Frequency Range	115kHz~ 145 kHz
WPT Type of Modulation	ASK
WPT Antenna Type	Coil Antenna
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The three models name XT2655-1, XT2655-2, XT2655-3 are the same product except model name different for market segment.

1.4 Modification of EUT

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



1.5 Test Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24al

1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.209, §15.207
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2020

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



1.8 Specification of Accessory

Accessories Information				
AC Adapter 1(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-681N
AC Adapter 1(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-682N
AC Adapter 1(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-683N
AC Adapter 1(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-686N
AC Adapter 1(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-687N
AC Adapter 1(Chile)	Brand Name	Motorola(Chenyang)	Model Name	MC-689N
AC Adapter 2(US)	Brand Name	Motorola(Acbel)	Model Name	MC-681N
AC Adapter 2(EU)	Brand Name	Motorola(Acbel)	Model Name	MC-682N
AC Adapter 2(UK)	Brand Name	Motorola(Acbel)	Model Name	MC-683N
AC Adapter 2(AR)	Brand Name	Motorola(Acbel)	Model Name	MC-686N
AC Adapter 2(BR)	Brand Name	Motorola(Acbel)	Model Name	MC-687N
AC Adapter 2(Chile)	Brand Name	Motorola(Acbel)	Model Name	MC-689N
Battery 1	Brand Name	Motorola(ATL)	Model Name	SS13
Battery 2	Brand Name	Motorola(ATL)	Model Name	SS37
USB Cable 1	Brand Name	Motorola(saibao)	Model Name	SC18D71644
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18E08104
USB Cable 3	Brand Name	Motorola(saibao)	Model Name	SC18D86731
USB Cable 4	Brand Name	Motorola(Luxshare)	Model Name	SC18E08103

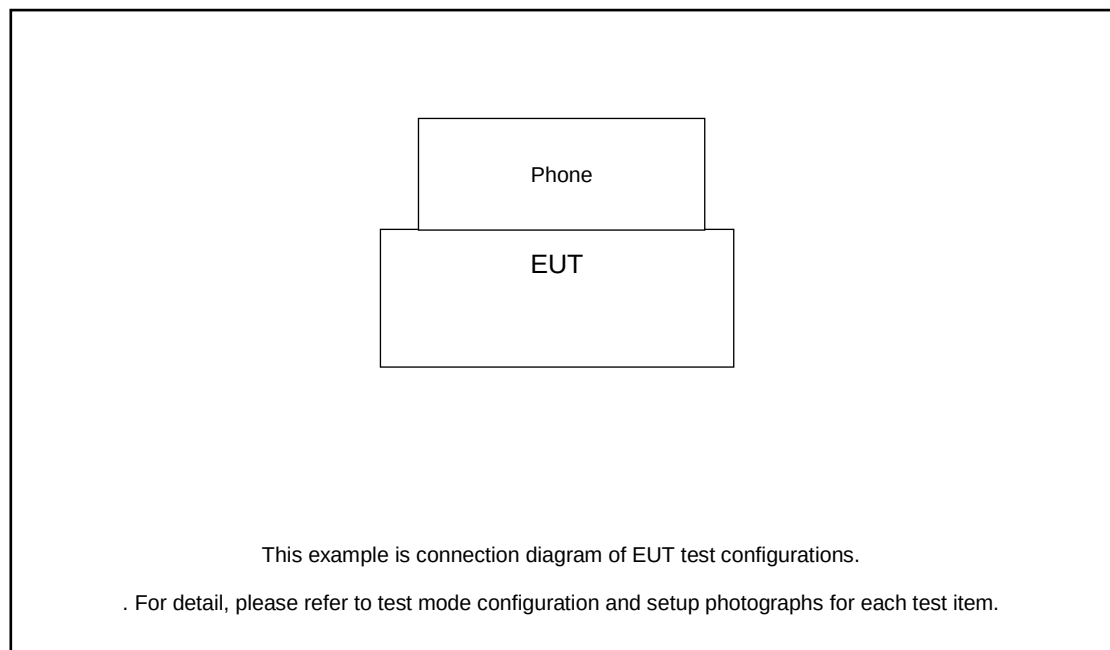
2 Test Configuration of Equipment Under Test

2.1 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 1000 MHz).

Test Items	Function Type
Radiated Emission	Mode 1: Wireless Charging (Reverse charging for other phone)

2.2 Connection Diagram of Test System



3 Test Result

3.1 20dB and 99% Occupied Bandwidth Measurement

3.1.1 Limit of 20dB and 99% Occupied Bandwidth

Reporting only, 99% OBW shall not located within 15.205 restricted bands.

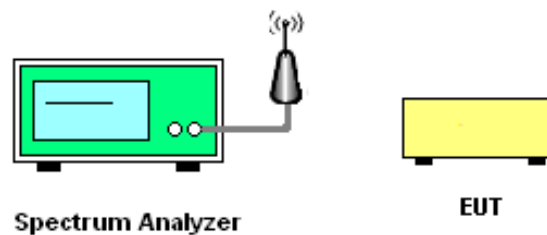
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while wirelessly charging a charging board.
2. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.
3. Measure and record the results in the test report.

3.1.4 Test Setup





3.1.5 Test Result of 20dB and 99% Bandwidth

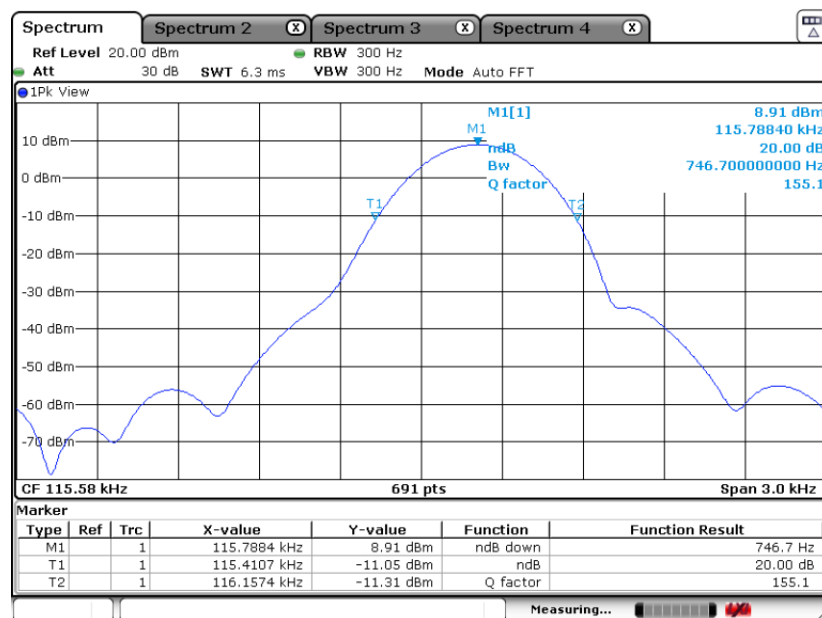
Test Engineer :	Smile Wang	Temperature :	22-24℃
		Relative Humidity :	53-55%

For 10%

Occupied Bandwidth (kHz)	Frequency (kHz)
20dB Bandwidth(KHz)	0.747
99% Bandwidth(KHz)	0.634

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

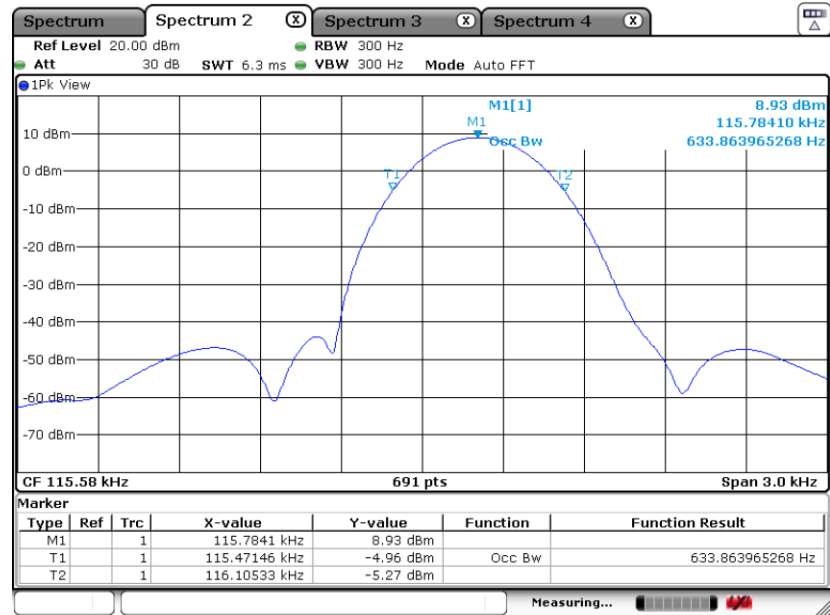
20 dB Bandwidth Plot



Date: 15.DEC.2025 04:28:29



99% Occupied Bandwidth Plot



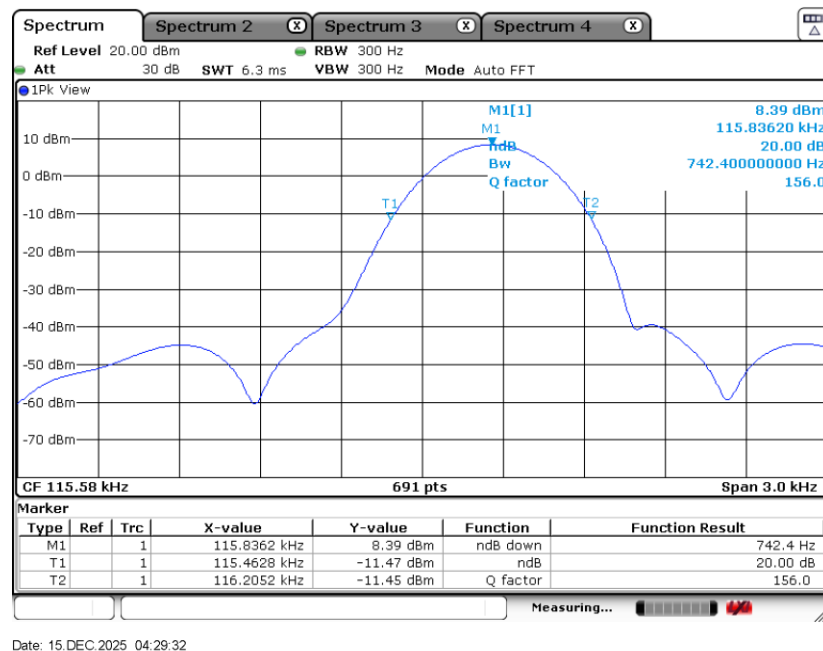
Date: 15 DEC 2025 04:28:52

For 50%

Occupied Bandwidth (kHz)	Frequency (kHz)
20dB Bandwidth(KHz)	0.742
99% Bandwidth(KHz)	0.629

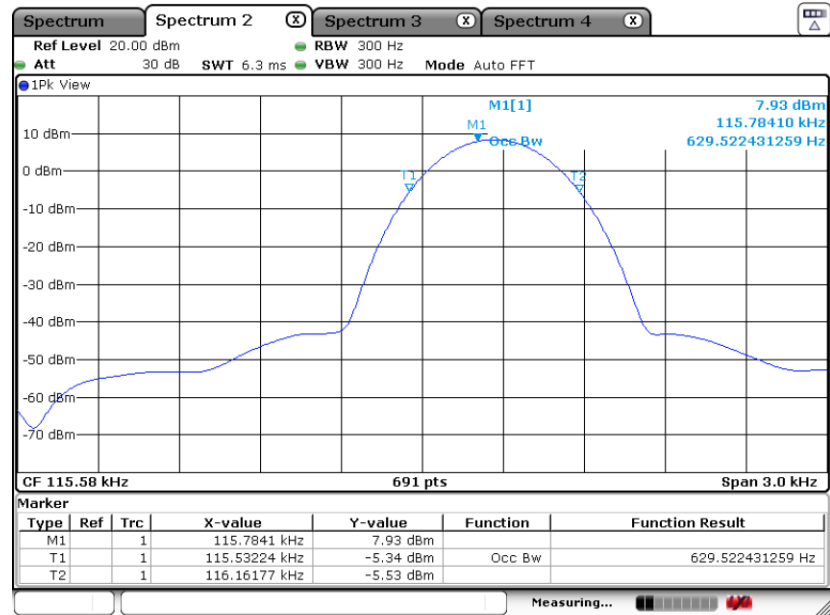
Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW

20 dB Bandwidth Plot





99% Occupied Bandwidth Plot



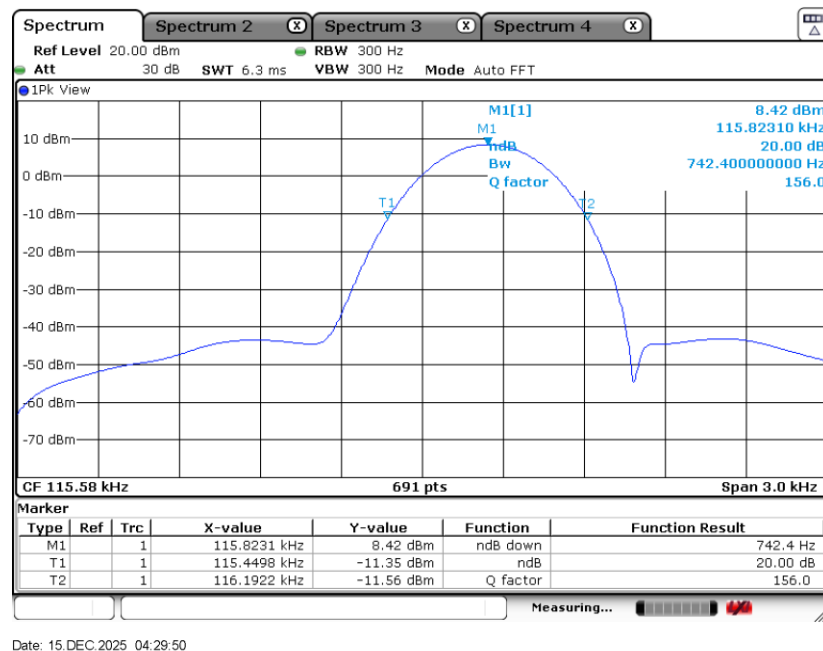
Date: 15 DEC 2025 04:29:41

For 90%

Occupied Bandwidth (kHz)	Frequency (kHz)
20dB Bandwidth(KHz)	0.742
99% Bandwidth(KHz)	0.634

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

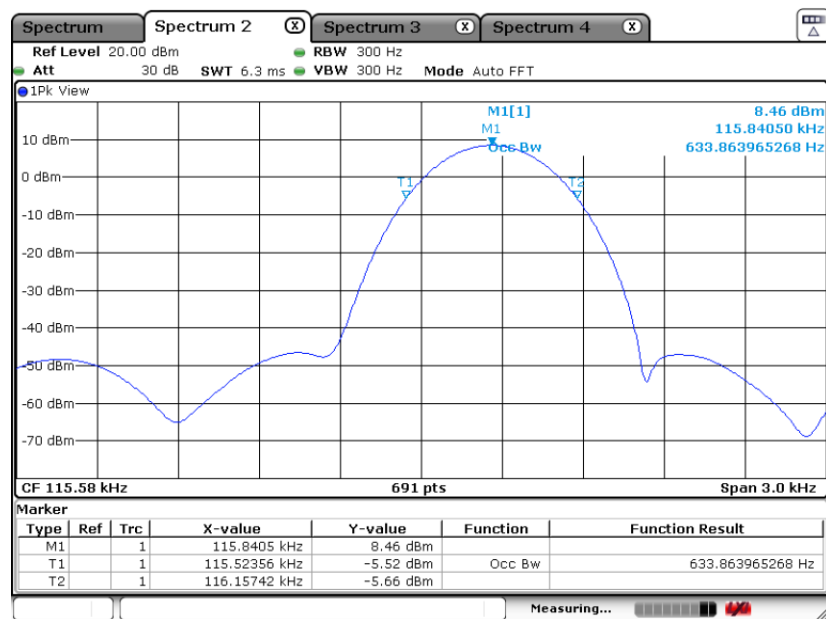
20 dB Bandwidth Plot



Date: 15 DEC. 2025 04:29:50



99% Occupied Bandwidth Plot



Date: 15 DEC 2025 04:30:00

3.2 Radiated Emission Measurement

3.2.1 Limit of Radiated Emission

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Receiver Parameter	Setting
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

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

For radiated emissions from 9kHz to 1GHz test distance is 3m

For 9kHz ~ 30MHz

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
3. specific line (dB μ V/m) = $20 \log$ Emission level (μ V/m)
4. Limit line = specific limits (dB μ V/m) + distance extrapolation factor.

3.2.2 Measuring Instruments

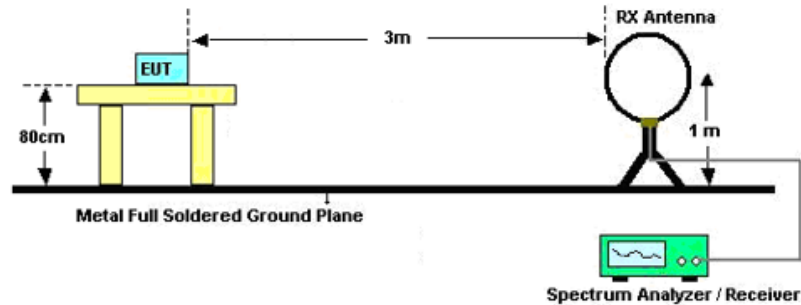
See list of measuring equipment of this test report.

3.2.3 Measuring Instrument Setting

Follow the guidelines in C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

3.2.4 Test Setup of Radiated Emission

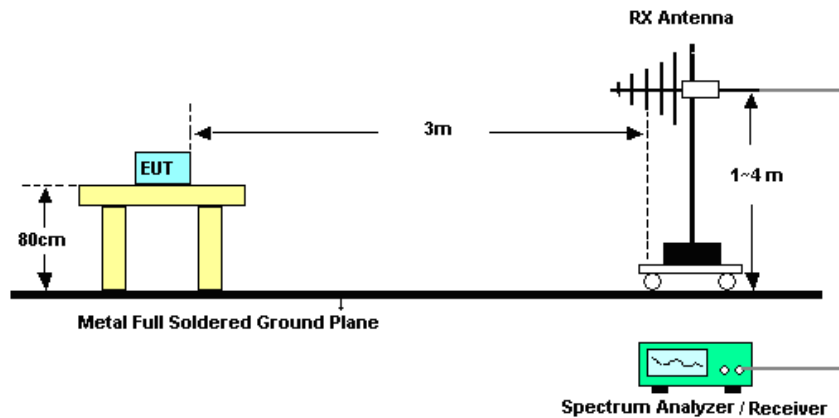
For radiated emissions below 30MHz



Note:

1. 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.
2. Tested for radiated below 30 MHz using a loop antenna in accordance with C63.10, the antenna was positioned in three antenna orientations: horizontal, vertical, and ground-parallel three polarization's, the worst case is horizontal & vertical polarization, test data of two mode was reported.

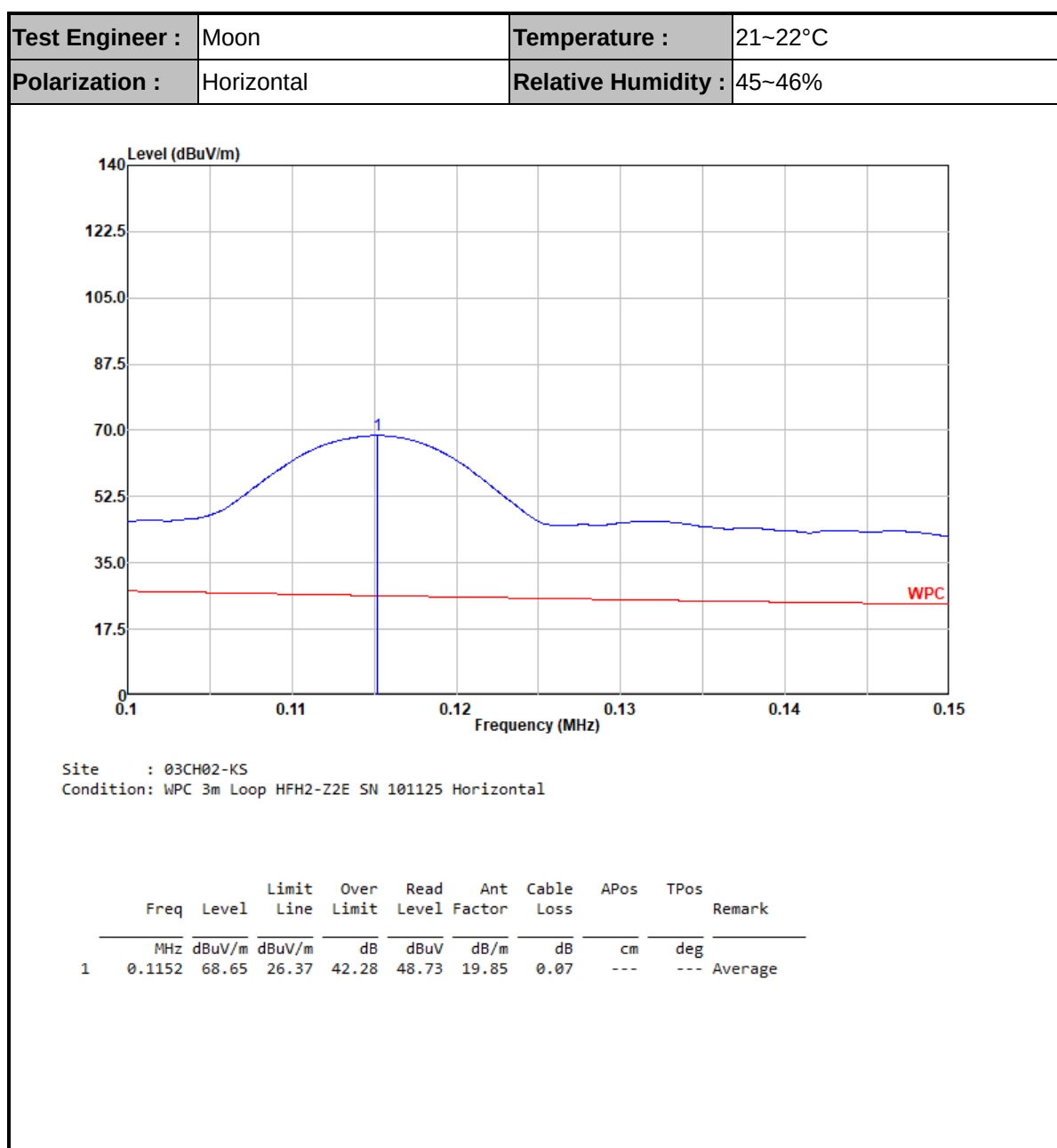
For radiated emissions above 30MHz



3.2.5 Test Result of Fundamental Emission

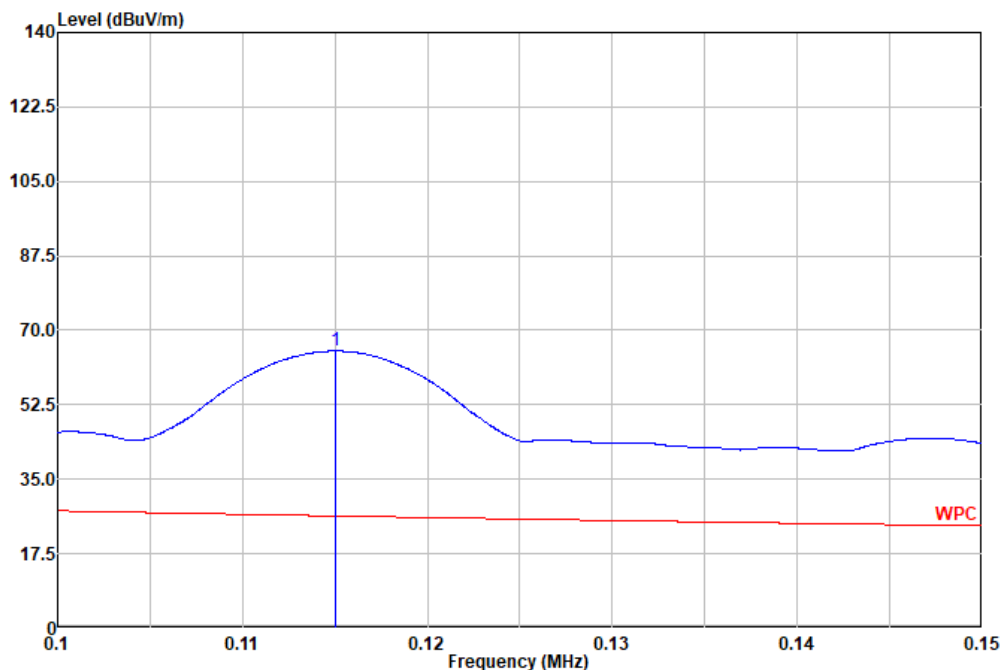
Frequency (MHz)	Level (dBuV/m) @3m	Distance Factor (dB)	Corrected level @300m (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Remark	Pol/Phase
0.1152	68.65	80	-11.35	26.37	-37.72	48.73	19.85	0.07	Average	Perpendicular
0.1151	65.14	80	-14.86	26.38	-41.24	45.22	19.85	0.07	Average	Parallel

Note: The field strength is tested at 3m distance then convert to 300m by adding distance factor $40 \cdot \log(d1/d2)$





Test Engineer :	Moon	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



Site : 03CH02-KS
Condition: WPC 3m Loop HFH2-Z2E SN 101125 Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Ant Factor	Cable Loss	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	cm	deg	
1	0.1151	65.14	26.38	38.76	45.22	19.85	0.07	---	---	Average



3.2.6 Test Result of Radiated Emission (9kHz ~ 30MHz)

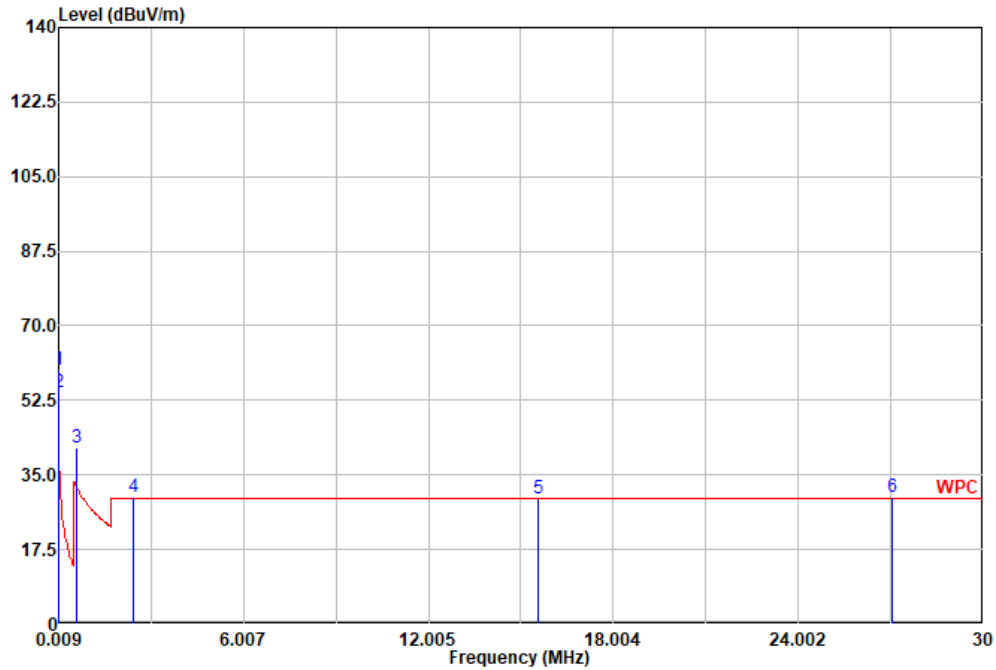
Frequency (MHz)	Level 3m (dBuV/m)	Distance Factor (dB)	Corrected Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Remark	Pol/Phase
0.02	59.77	80	-20.23	40.98	-61.21	39.54	20.17	0.06	Average	Horizontal
0.03	54.5	80	-25.5	38.09	-63.59	34.33	20.11	0.06	Average	Horizontal
0.57	41.23	40	1.23	32.42	-31.19	21.39	19.77	0.07	QP	Horizontal
2.42	29.82	40	-10.18	29.5	-39.68	9.9	19.85	0.07	QP	Horizontal
15.58	29.64	40	-10.36	29.5	-39.86	9.65	19.79	0.2	QP	Horizontal
27.06	29.88	40	-10.12	29.5	-39.62	9.36	20.2	0.32	QP	Horizontal
0.02	58.01	80	-21.99	41.03	-63.02	37.78	20.17	0.06	Average	Vertical
0.03	46.26	80	-33.74	38.09	-71.83	26.09	20.11	0.06	Average	Vertical
0.62	38.19	40	-1.81	31.74	-33.55	18.35	19.77	0.07	QP	Vertical
3.12	29.52	40	-10.48	29.5	-39.98	9.62	19.82	0.08	QP	Vertical
19.75	30.96	40	-9.04	29.5	-38.54	10.88	19.84	0.24	QP	Vertical
27.40	30.29	40	-9.71	29.5	-39.21	9.72	20.25	0.32	QP	Vertical

Note:

1. The field strength is tested at 3m distance then convert to 300m/30m by adding distance factor $40 \cdot \log(d1/d2)$
2. Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);
3. Corrected Level = Level @3m (dBuV/m) - distance extrapolation factor.



Test Engineer :	Moon	Temperature :	21~22°C
Polarization :	Horizontal	Relative Humidity :	45~46%

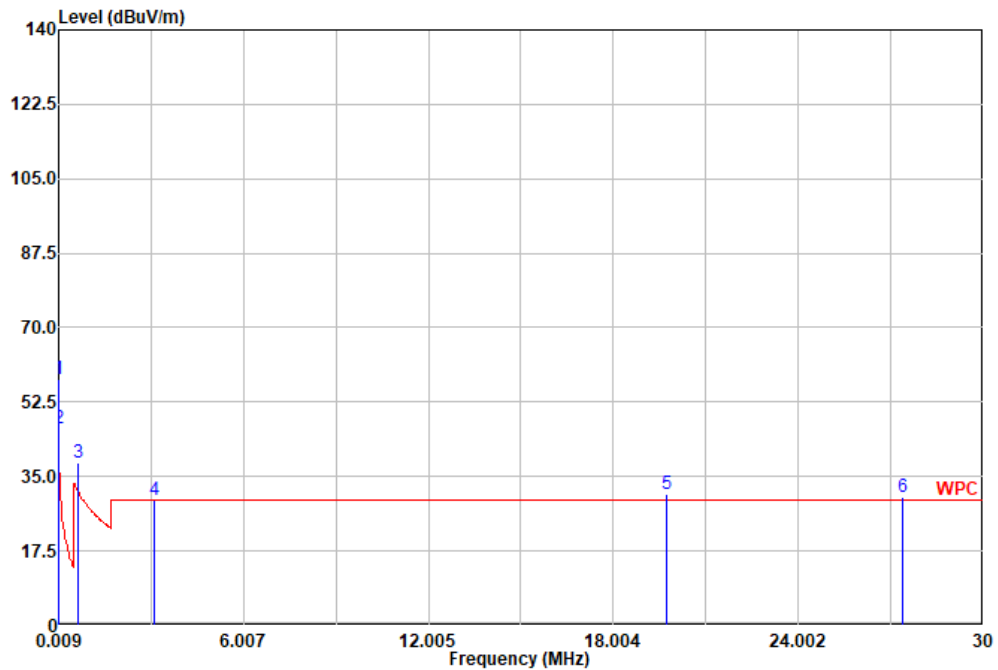


Site : 03CH02-K5
Condition: WPC 3m Loop HFH2-Z2E SN 101125 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	cm	deg	
1	0.0214	59.77	40.98	18.79	39.54	20.17	0.06	---	---	Average
2	0.0299	54.50	38.09	16.41	34.33	20.11	0.06	---	---	Average
3	0.5737	41.23	32.42	8.81	21.39	19.77	0.07	---	---	QP
4	2.4200	29.82	29.50	0.32	9.90	19.85	0.07	---	---	QP
5	15.5800	29.64	29.50	0.14	9.65	19.79	0.20	---	---	QP
6	27.0600	29.88	29.50	0.38	9.36	20.20	0.32	---	---	QP



Test Engineer :	Moon	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%

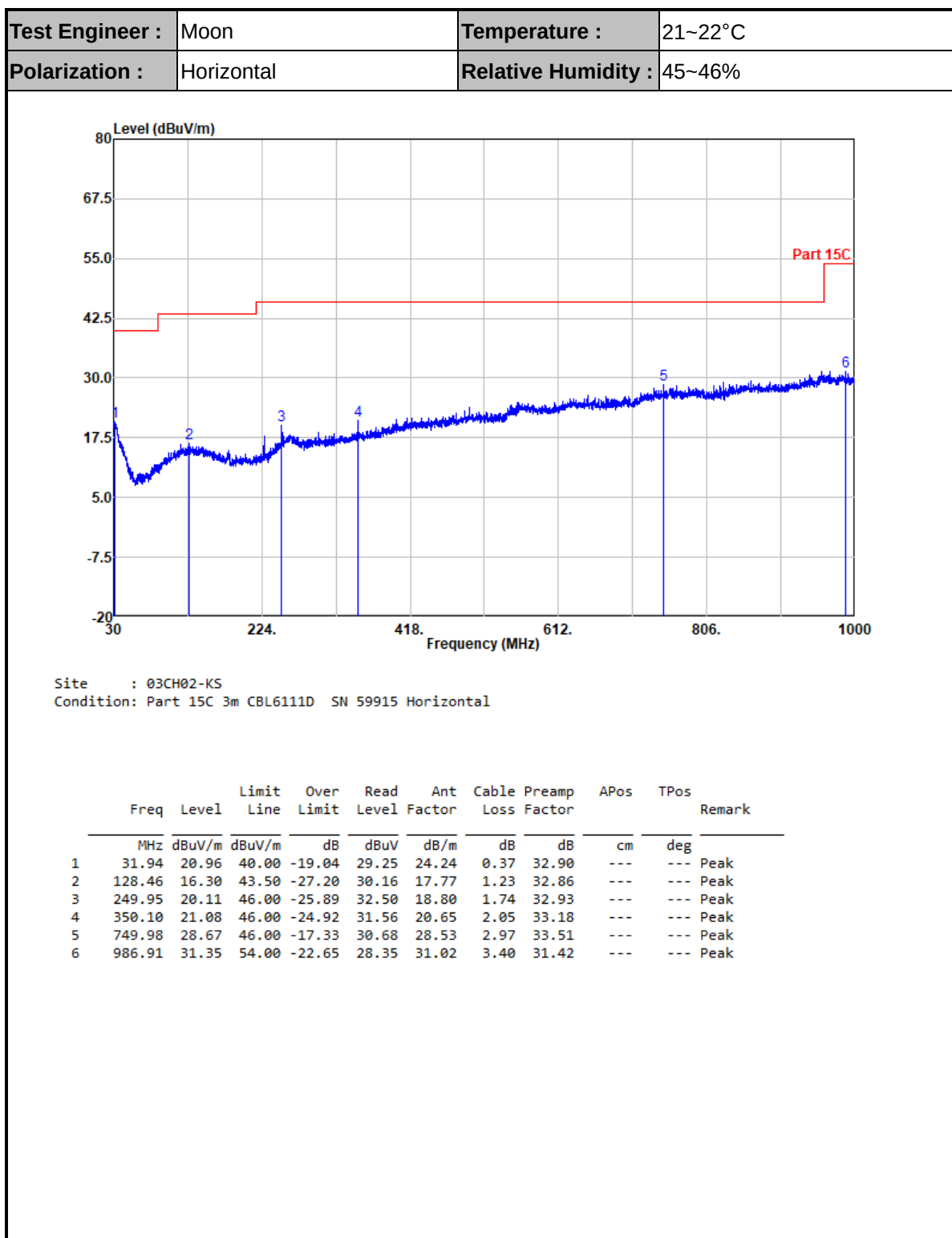


Site : 03CH02-KS
Condition: WPC 3m Loop HFH2-Z2E SN 101125 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	cm	deg	
1	0.0213	58.01	41.03	16.98	37.78	20.17	0.06	---	---	Average
2	0.0299	46.26	38.09	8.17	26.09	20.11	0.06	---	---	Average
3	0.6199	38.19	31.74	6.45	18.35	19.77	0.07	---	---	QP
4	3.1200	29.52	29.50	0.02	9.62	19.82	0.08	---	---	QP
5	19.7520	30.96	29.50	1.46	10.88	19.84	0.24	---	---	QP
6	27.3960	30.29	29.50	0.79	9.72	20.25	0.32	---	---	QP

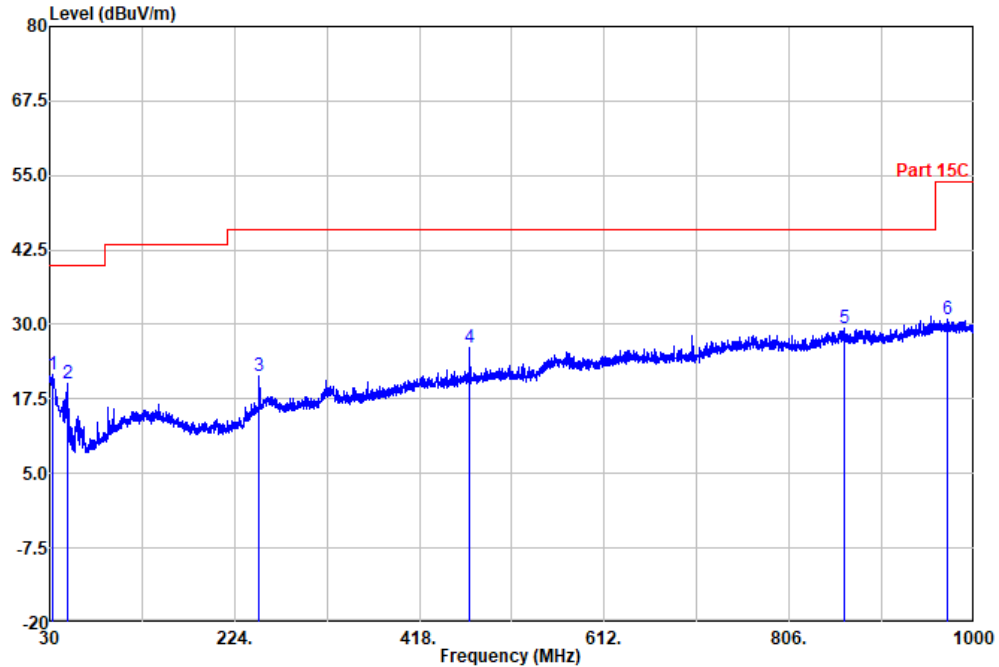


3.2.7 Test Result of Radiated Emission (30MHz ~ 1000MHz)





Test Engineer :	Moon	Temperature :	21~22°C
Polarization :	Vertical	Relative Humidity :	45~46%



Site : 03CH02-KS
Condition: Part 15C 3m CBL6111D SN 59915 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	33.88	21.56	40.00	-18.44	30.77	23.28	0.40	32.89	---	---	Peak
2	48.92	20.00	40.00	-20.00	37.10	15.12	0.55	32.77	---	---	Peak
3	249.95	21.25	46.00	-24.75	33.64	18.80	1.74	32.93	---	---	Peak
4	470.87	26.02	46.00	-19.98	33.34	23.64	2.37	33.33	---	---	Peak
5	862.99	29.26	46.00	-16.74	29.03	29.88	3.18	32.83	---	---	Peak
6	972.11	30.81	54.00	-23.19	27.81	31.24	3.37	31.61	---	---	Peak



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Dec. 02, 2025	Dec. 14, 2025	Dec. 01, 2026	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Dec. 14, 2025	Aug. 09, 2026	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz-1GHz	Aug. 12, 2025	Dec. 14, 2025	Aug. 11, 2026	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002 473	N/A	NCR	Dec. 14, 2025	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Dec. 14, 2025	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Dec. 14, 2025	NCR	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2025	Dec. 15, 2025	Oct. 09, 2026	Conducted (TH01-KS)
DC Power Supply	GW INSTRON	PLR36-10	GET22068 3	Max 20A, 36V	Jan. 02, 2025	Dec. 15, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011 440	-40~+150°C 20%~95%RH	Jul. 04, 2025	Dec. 15, 2025	Jul. 03, 2026	Conducted (TH01-KS)

NCR: No Calibration Required



5 Measurement Uncertainty

Uncertainty of Conducted Measurement

Occupied Channel Bandwidth	$\pm 0.384\%$
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Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.18 dB
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----- THE END -----