



FCC RADIO TEST REPORT

FCC ID : 2AMM6-ERD-R2412NAC0
Equipment : 24G Radar Module
Brand Name : EARDATEK
Model Name : ERD-R2412NAC0-001
Applicant : Earda Technologies Co.,Ltd
Block A,LianFeng Creative Industry Park,2 JiSheng
Road., HuangGe Town,NanSha
District,Guangzhou,PRC.
Manufacturer : Earda Technologies Co.,Ltd
Block A,LianFeng Creative Industry Park,2 JiSheng
Road., HuangGe Town,NanSha
District,Guangzhou,PRC.
Standard : FCC Part 15 Subpart C §15.249

The product was received on Oct. 27, 2025 and testing was performed from Dec. 02, 2025 to Dec. 08, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	5
2 Test Configuration of Equipment Under Test	6
2.1 Carrier Frequency and Test Mode.....	6
2.2 Connection Diagram of Test System.....	6
2.3 Support Unit used in test configuration and system	7
2.4 EUT Operation Test Setup	7
3 Test Result	8
3.1 Emission Bandwidth	8
3.2 Field Strength of Fundamental/Harmonics and Radiated Spurious Emission Measurement	10
3.3 Antenna Requirements.....	14
4 List of Measuring Equipment.....	15
5 Measurement Uncertainty	17
Appendix A. Radiated Spurious Emission	
Appendix B. Setup Photos	



History of this test report

Report No.	Version	Description	Issue Date
FR5O2702	01	Initial issue of report	Dec. 11, 2025
FR5O2702	02	Revised Applicable Standards and Test Procedures This report is an updated version, replacing the report issued on Dec. 11, 2025.	Dec. 15, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	§15.215(c)	Emission Bandwidth	Pass	-
3.2	15.249(a) 15.249(d)	Field Strength of Fundamental and Radiated Spurious Emission	Pass	-
-	15.207	AC Conducted Emission	Not Required	See Note 1
-	15.249(b)	Frequency Stability	Not Required	See Note 2
3.3	15.203	Antenna Requirements	Pass	-

Note:

1. The power source method of the EUT is to use DC power source, and there is no other AC power port, after assessing, AC Conduction Emission test is not required.
2. Only applicable to fixed point to point systems.

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.

Reviewed by: Yun Huang

Report Producer: Yuri Huang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs 24GHz Radar.		
Antenna Type 24GHz Radar: PCB Antenna		
Antenna information		
24.00 GHz ~ 24.25 GHz	Peak Gain (dBi)	4.6

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

1.2 Modification of EUT

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

1.3 Testing Location

The test location is accredited based on TAF code 3786 designated by NCC (National Communication Commission).

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

FCC designation No.: TW3786

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

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 §15.249
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2020

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

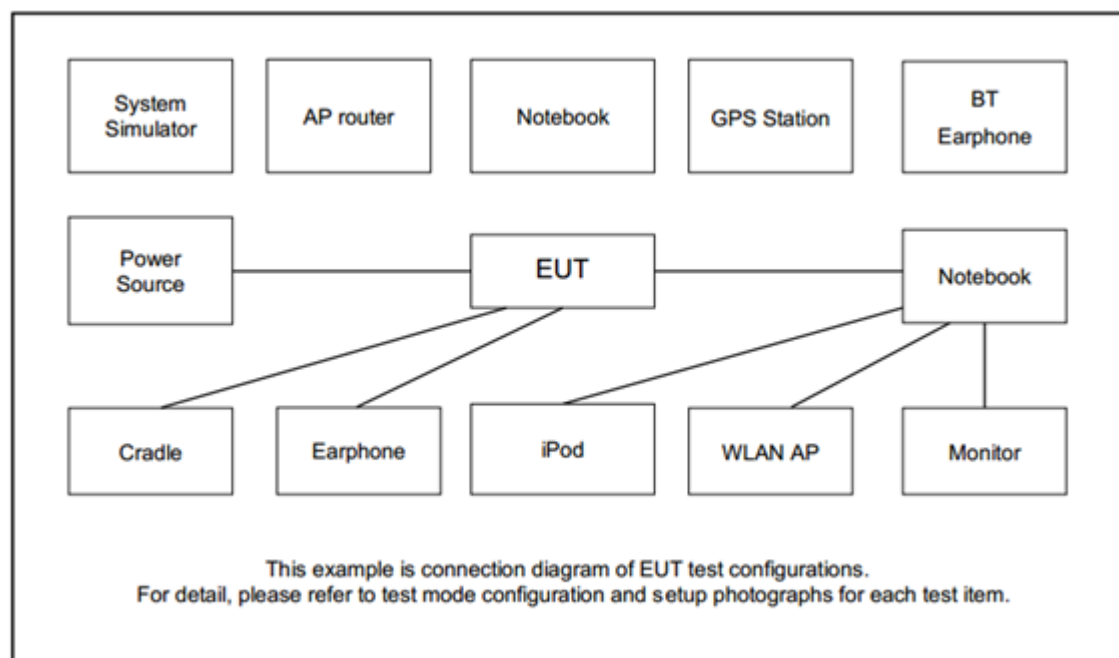
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report..

2.1 Carrier Frequency and Test Mode

Frequency Band	Frequency (MHz)	Modulation
24.00-24.25 GHz	24120	FMCW

Note: The Emission Bandwidth is tested by using FMCW, and the rest of test cases use CW mode in accordance with FCC Part 15.31(c).

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW Instek	GPE-2323	N/A	N/A	Unshielded, 6.0m

2.4 EUT Operation Test Setup

The RF test items, make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3 Test Result

3.1 Emission Bandwidth

3.1.1 Description of Emission Bandwidth Measurement

99% Occupied Bandwidth are for reporting only.

Limit for 20 dB Bandwidth: Per Part15.215(C), the device shall operate in the 24-24.25 GHz band.

The emission bandwidth (EBW) is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least the specified amount below the maximum level of the modulated carrier.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

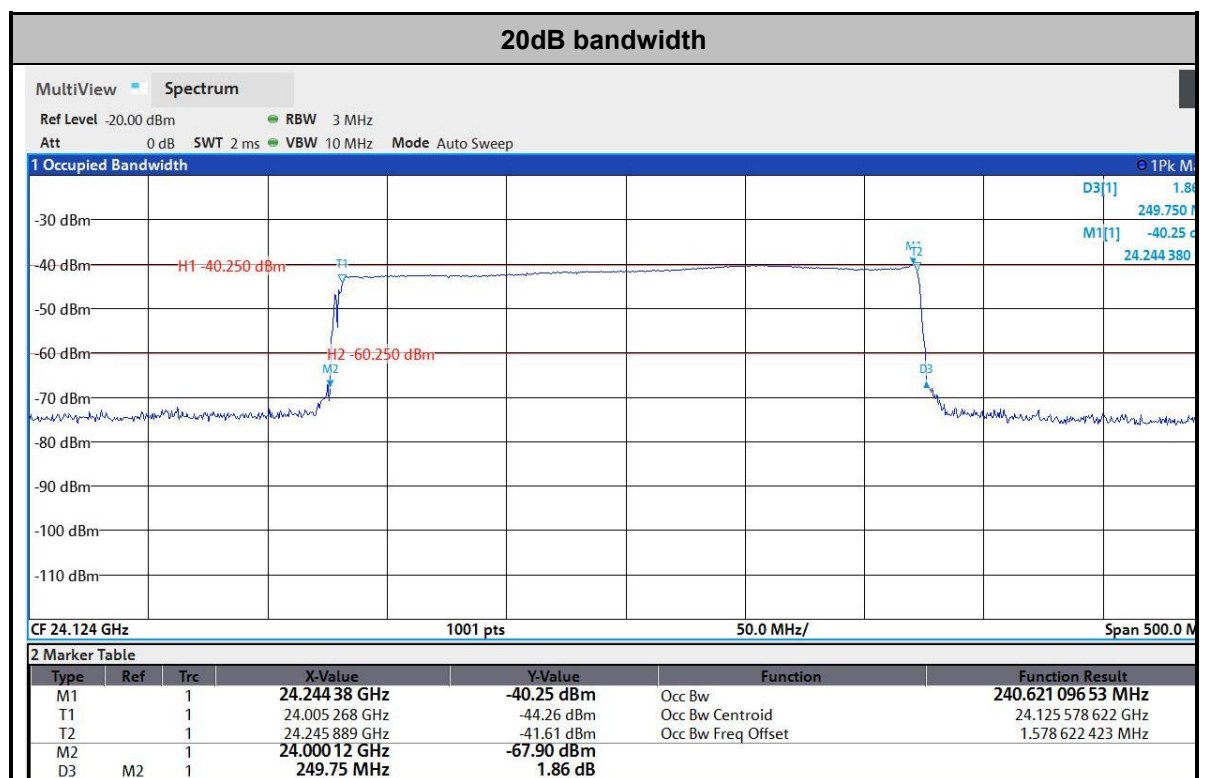
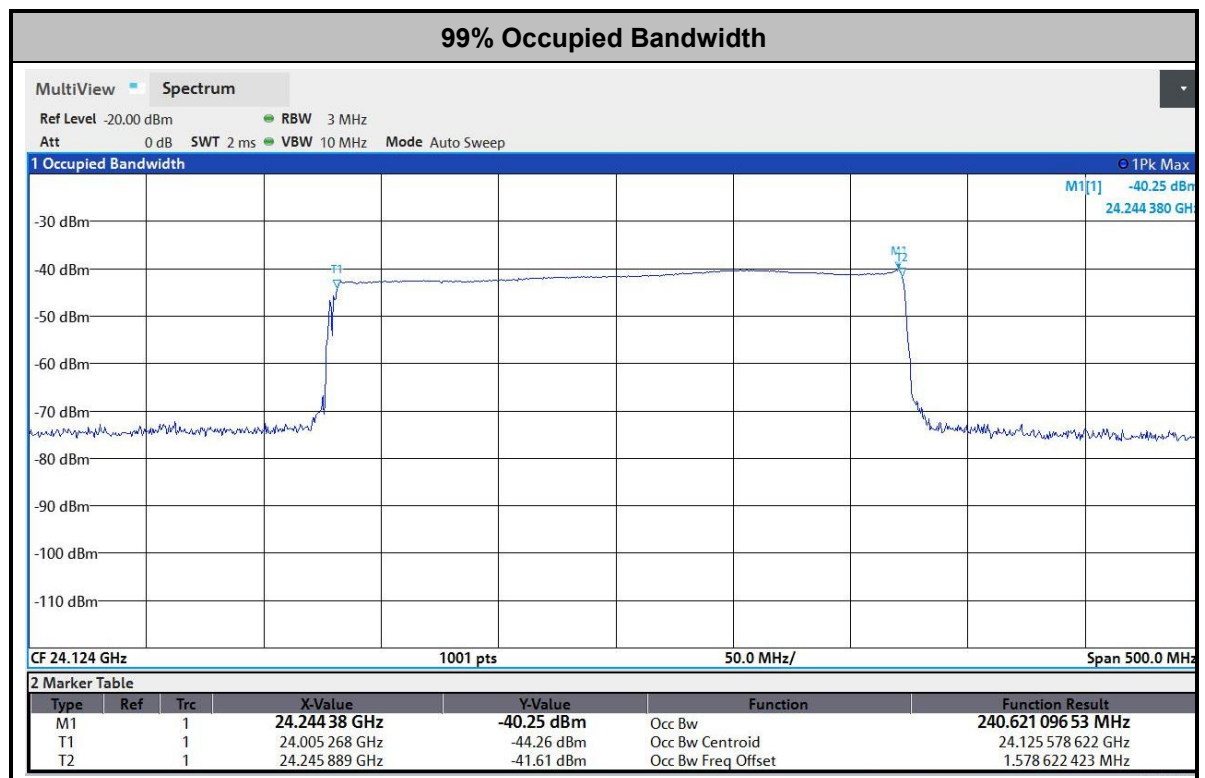
1. The testing follows the ANSI C63.10 Section 6.9.3.
2. Enable the EUT transmit continuously under FMCW mode.
3. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
4. Measure and record the results in the test report.

3.1.4 Test Result of Emission Bandwidth

99% Occupied Bandwidth (GHz)		Limit (GHz)	
0.24062		Report Only	
20dB Bandwidth Measurement			
Bandwidth (GHz)	Low Frequency (GHz)	High Frequency (GHz)	Result
0.24975	24.00012	24.24987	Pass



3.1.5 Test Plots



3.2 Field Strength of Fundamental/Harmonics and Radiated Spurious Emission Measurement

3.2.1 Limit

The field strength measured at 3 meters shall not exceed the limits in the following table:

Rules and specifications	FCC CFR 47 Part 15 section 15.249	
Description	Field strength of fundamental	
24.0~24.25 (GHz)	Fundamental emissions (millivolts/meter) at 3m	Fundamental emissions (dBμV/m) at 3m
Average limits	250	107.95
Peak limits	-	127.95
Description	Field strength of harmonics	
24.0~24.25 (GHz)	Fundamental emissions (microvolts/meter) at 3m	Harmonic emissions (dBμV/m) at 3m
Average limits	2500	67.95
Peak limits	-	87.95
Note: Above 18GHz, the distance correction factor is used, 18GHz to 90GHz : $20\log(1\text{m}/3\text{m}) = -9.54\text{dB}$; 90GHz – 100GHz: $20\log(0.5\text{m}/3\text{m}) = -15.56\text{dB}$.		

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

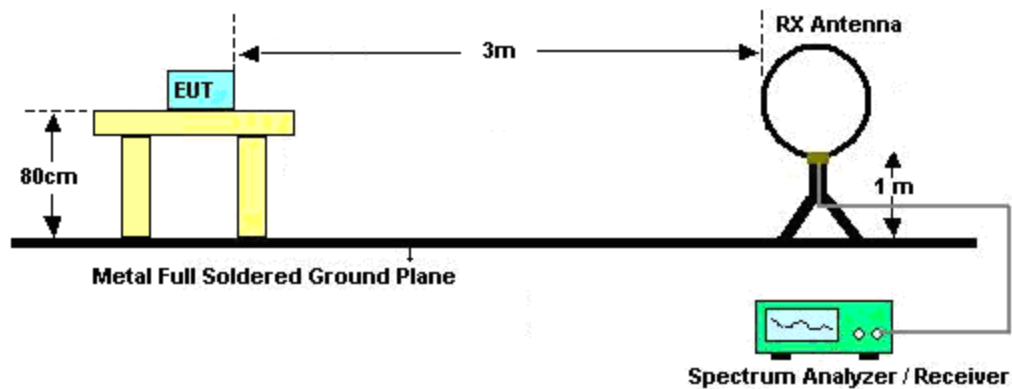
3.2.3 Test Procedures

For emissions 9KHz to 40GHz, ANSI C63.10 Section 6.3 Radiated emissions testing follows, and for emissions 40GHz to 100GHz, ANSI C63.10 Section 9.10 radiated measurements follows.

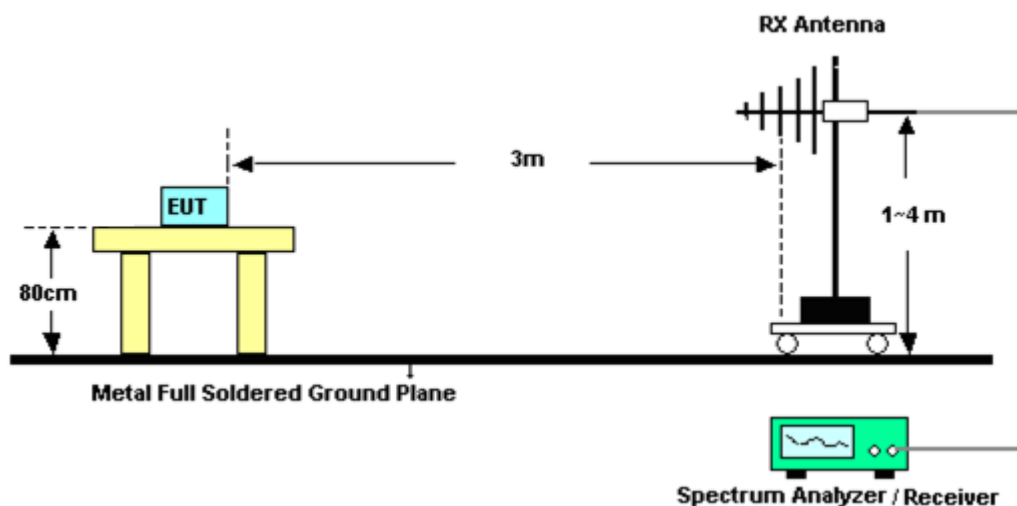
The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and with 1.5 meter height for frequency above 1GHz, and was arranged test distance as shown in Section 3.4 Test Setup, respectively. For emissions, test results are attenuated more than 20 dB below the permissible value need not be reported in accordance with FCC Part 15.31(O).

3.2.4 Test Setup

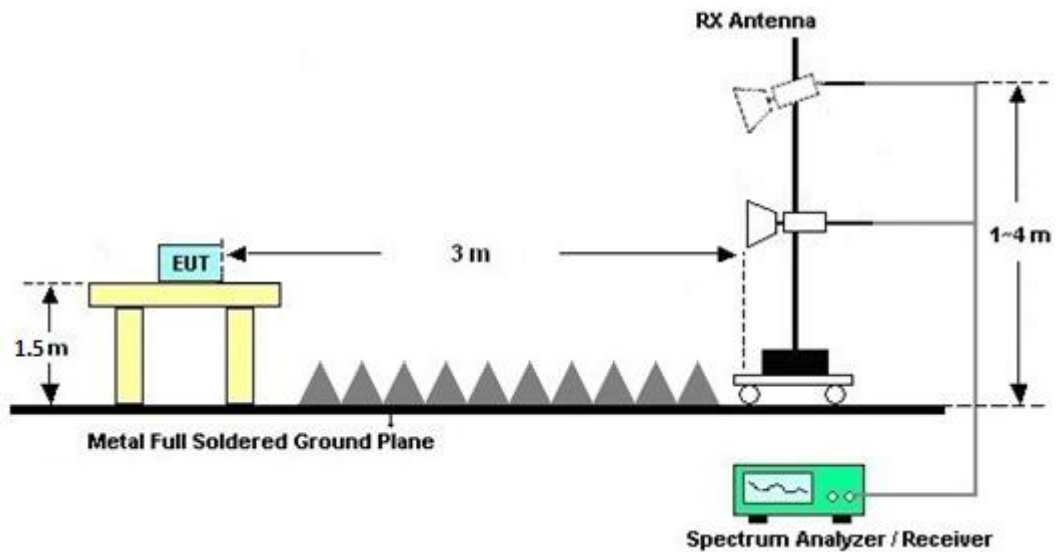
<For radiated emissions below 30MHz>



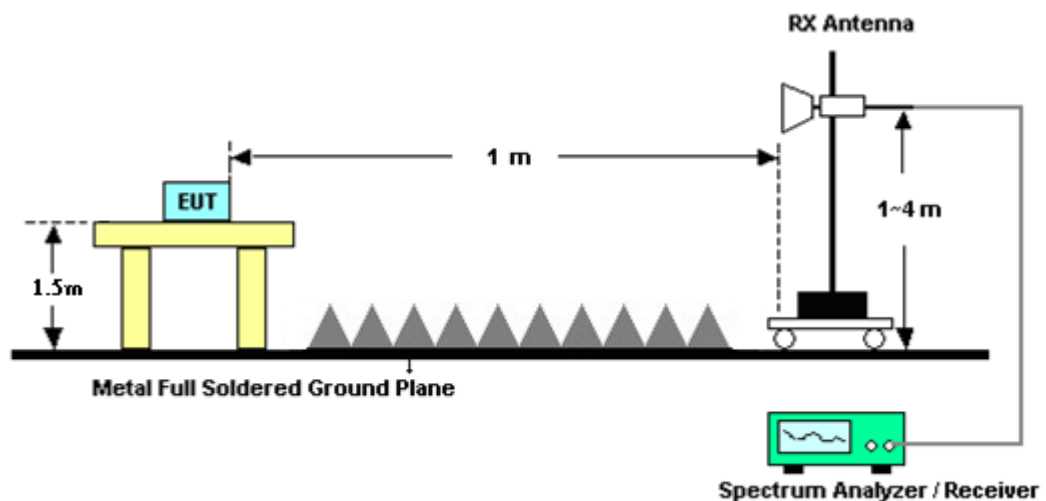
<For radiated emissions from 30MHz ~ 1GHz>



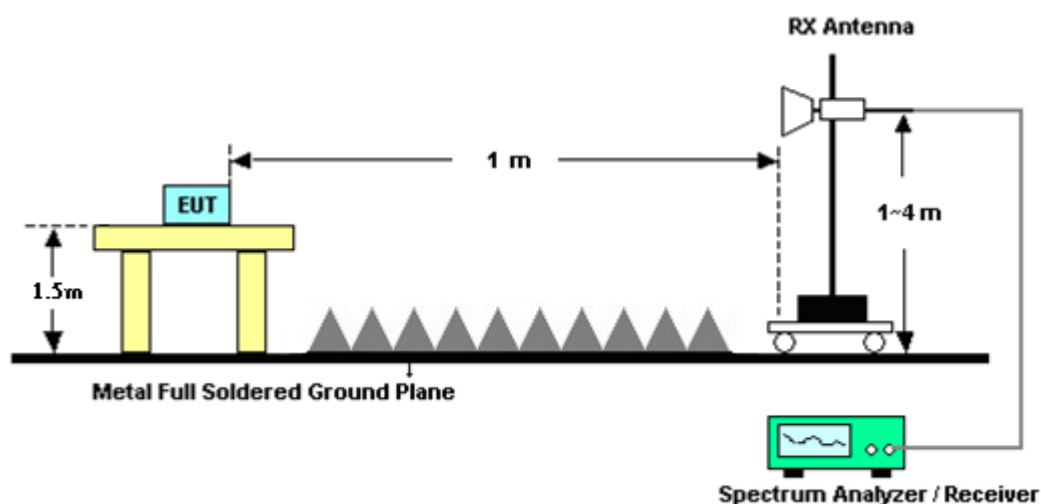
<For radiated emissions from 1 ~ 18GHz>



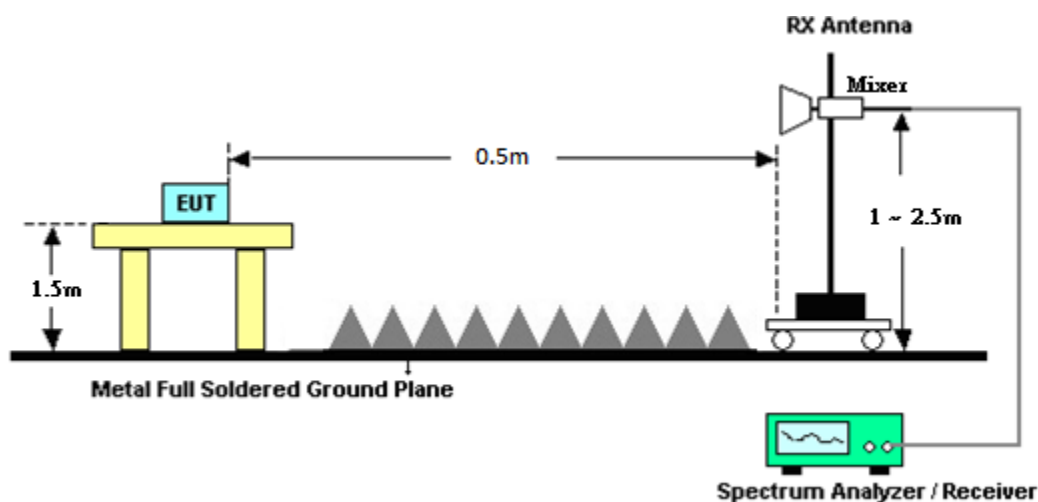
<For radiated emissions from 18 ~ 40GHz>



<For radiated emissions above 40 ~ 90GHz>



<For radiated emissions above 90 ~ 100GHz>



3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.2.6 Test Result of Field Strength of Fundamental and Radiated Spurious Emission

Please refer to Appendix A.



3.3 Antenna Requirements

3.3.1 Standard Applicable

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 a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.3.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00994	18GHz-40GHz	Jan.09,2025	Dec. 02, 2025 ~ Dec. 08, 2025	Jan.08,2026	Radiation (03CH18-HY)
Spectrum Analyzer	Rohde & Schwarz	FSW43	101456	2Hz to 43.5GHz	Feb. 20, 2025	Dec. 02, 2025 ~ Dec. 08, 2025	Feb. 19, 2026	Radiation (03CH18-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May. 26, 2025	Dec. 02, 2025 ~ Dec. 08, 2025	May. 25, 2026	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	18GHz-40GHz	Dec. 31,2024	Dec. 02, 2025 ~ Dec. 08, 2025	Dec.30, 2025	Radiation (03CH18-HY)
Turn Table	EMEC	N/A	N/A	Phi/Theta 0~360 Degree	N/A	Dec. 02, 2025 ~ Dec. 08, 2025	N/A	Radiation (03CH18-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table	N/A	Dec. 02, 2025 ~ Dec. 08, 2025	N/A	Radiation (03CH18-HY)
Spectrum Analyzer	Rohde & Schwarz	FSW43	101456	2Hz to 43.5GHz	Feb. 20, 2025	Dec. 02, 2025 ~ Dec. 08, 2025	Feb. 19, 2026	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z60	101033	40GHz to 60GHz	Jun. 27, 2024	Dec. 02, 2025 ~ Dec. 08, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z75	102042	50 GHz to 75 GHz	Jun. 27, 2024	Dec. 02, 2025 ~ Dec. 08, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z110	102010	75GHz to 110GHz	Mar. 28, 2023	Dec. 02, 2025 ~ Dec. 08, 2025	Mar. 27, 2026	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-UPRR00	1410300003	40-60 GHz	Jun. 27, 2024	Dec. 02, 2025 ~ Dec. 08, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-VPRR00	1371800008	50-75 GHz	Jun. 27, 2024	Dec. 02, 2025 ~ Dec. 08, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-WPRR00	1371900009	75-110GHz	Jul. 06, 2021	Dec. 02, 2025 ~ Dec. 08, 2025	Jul. 03, 2026	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801607/2	N/A	Dec. 25, 2024	Dec. 02, 2025 ~ Dec. 08, 2025	Dec. 24, 2025	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519231/2	N/A	Dec. 25, 2024	Dec. 02, 2025 ~ Dec. 08, 2025	Dec. 24, 2025	Radiation (03CH18-HY)
Low Noise Amplifier	Quinstar	W-LNA 75-110 40 3	200130	75-110GHz	Jul. 15, 2024	Dec. 02, 2025 ~ Dec. 08, 2025	Jul. 14, 2027	Radiation (03CH18-HY)
Low Noise Amplifier	Eravant	SBL-5037531850-1515-E1	07115-01	50 ~ 75 GHz	Jul. 15, 2024	Dec. 02, 2025 ~ Dec. 08, 2025	Jul. 14, 2027	Radiation (03CH18-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	N/A	Dec. 02, 2025 ~ Dec. 08, 2025	N/A	Radiation (03CH18-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna with 6dB pad	TESEQ & VGT	CBL 6111D & VFA_Z-04002-N-06	66925 & 24006	30MHz~1GHz	Feb. 19, 2025	Dec. 04, 2025~Dec. 05, 2025	Feb. 18, 2026	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	100315	9 kHz~30 MHz	Mar. 06, 2025	Dec. 04, 2025~Dec. 05, 2025	Mar. 05, 2026	Radiation (03CH11-HY)
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Sep. 15, 2025	Dec. 04, 2025~Dec. 05, 2025	Sep. 14, 2026	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 07, 2024	Dec. 04, 2025~Dec. 05, 2025	Dec. 06, 2025	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 24, 2025	Dec. 04, 2025~Dec. 05, 2025	Mar. 23, 2026	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 21, 2025	Dec. 04, 2025~Dec. 05, 2025	Jan. 20, 2026	Radiation (03CH11-HY)
Signal Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2025	Dec. 04, 2025~Dec. 05, 2025	Oct. 22, 2026	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 22, 2025	Dec. 04, 2025~Dec. 05, 2025	Jul. 21, 2026	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Dec. 04, 2025~Dec. 05, 2025	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Dec. 04, 2025~Dec. 05, 2025	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Dec. 04, 2025~Dec. 05, 2025	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-002391	N/A	N/A	Dec. 04, 2025~Dec. 05, 2025	N/A	Radiation (03CH11-HY)
Software	Audix	E3	RK-002391	N/A	N/A	Dec. 04, 2025~Dec. 05, 2025	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200722	N/A	Mar. 03, 2025	Dec. 04, 2025~Dec. 05, 2025	Mar. 02, 2026	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 26, 2025	Dec. 04, 2025~Dec. 05, 2025	Aug. 25, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar. 05, 2025	Dec. 04, 2025~Dec. 05, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 05, 2025	Dec. 04, 2025~Dec. 05, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 05, 2025	Dec. 04, 2025~Dec. 05, 2025	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	30M~40G	May 10, 2025	Dec. 04, 2025~Dec. 05, 2025	May 09, 2026	Radiation (03CH11-HY)
Filter	Wainwright	WHK20/1000C 7/40SS	SN2	20MHz High Pass Filter	Sep. 09, 2025	Dec. 04, 2025~Dec. 05, 2025	Sep. 08, 2026	Radiation (03CH11-HY)

5 Measurement Uncertainty

<For 03CH11-HY>

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 6GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.9 dB
---	--------

Uncertainty of Radiated Emission Measurement (6GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.7 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.9 dB
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<For 03CH18-HY>

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (40 GHz ~ 140 GHz)

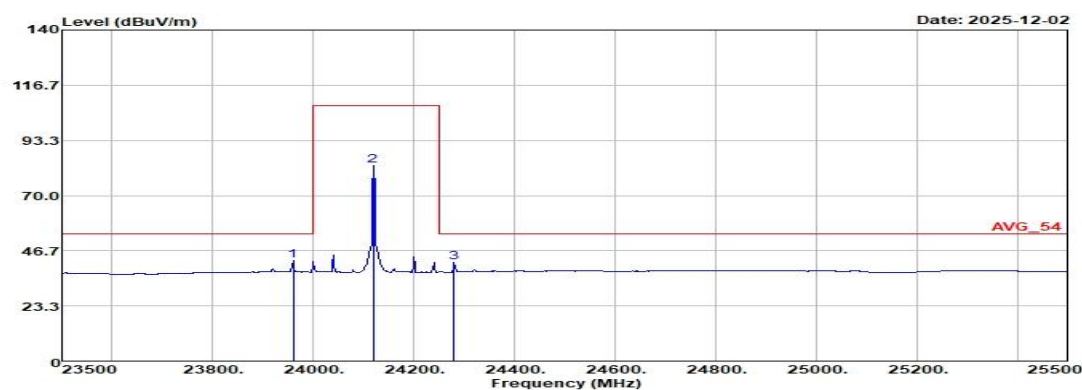
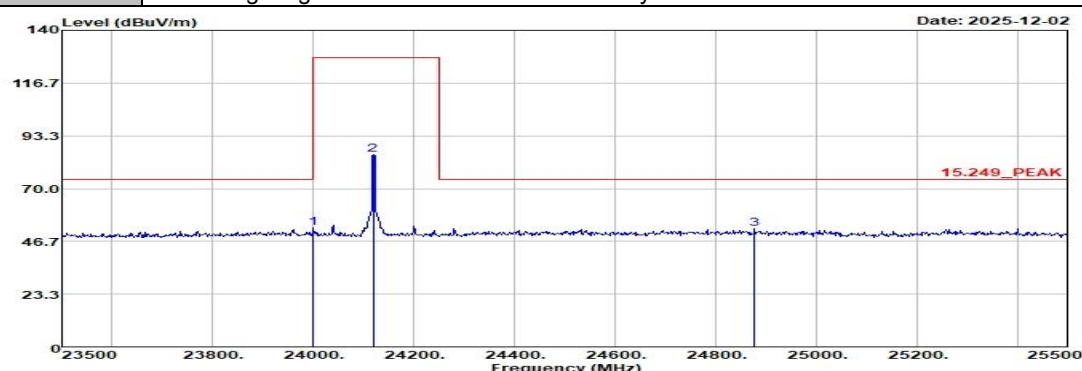
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.24 dB
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Appendix A. Radiated Spurious Emission Test Data

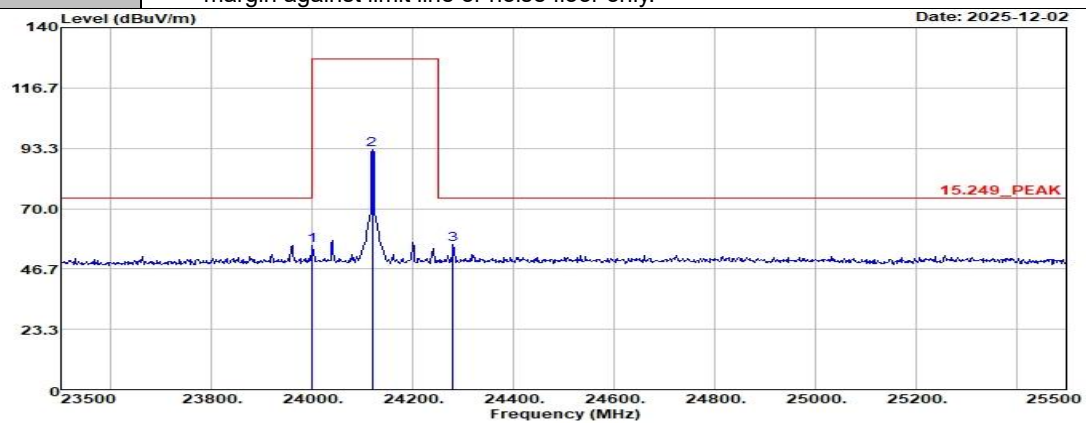
<Fundamental>

Temperature	23.5~25.1℃	Relative Humidity	55.4~61.4%
Test Engineer	Eric Jeng	Test Distance	1m
Test Range	Fundamental	Test Polarization	Horizontal
Remark	- Level (dBμV/m) = Read Level (dBμV) + Antenna Factor (dB) + Path Loss(dB) - Preamp Factor (dB) - Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Distance extrapolation factor (dB). - Distance extrapolation factor = $20\log (1\text{m}/3\text{m}) = -9.54 \text{ (dB)}$ - The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.		

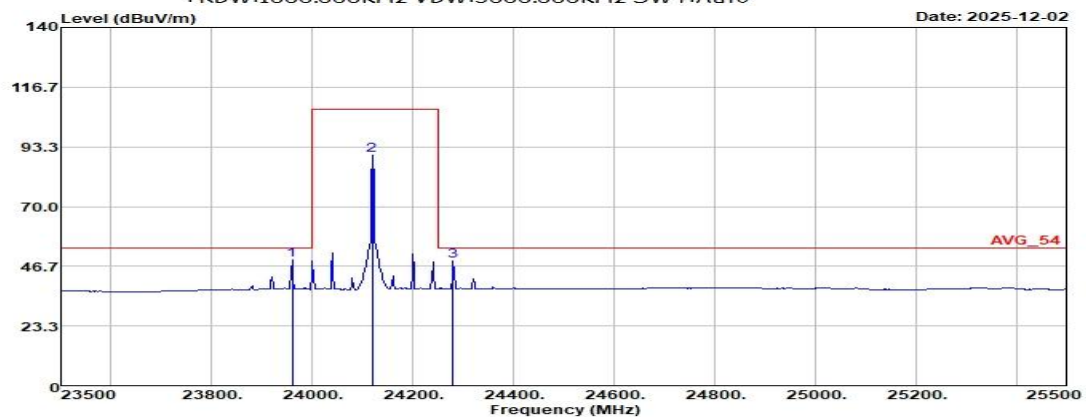


Mark	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	24000	52.68	-21.32	74.00	70.72	39.30	-3.44	53.90	160	0	Peak
2	24120	85.19	-42.76	127.95	102.99	39.37	-3.41	53.76	160	0	Peak
3	24878	52.21	-21.79	74.00	69.23	39.52	-3.24	53.30	-	-	Peak
4	23960	42.64	-11.36	54.00	60.71	39.29	-3.44	53.92	160	0	Average
5	24120	82.54	-25.41	107.95	100.34	39.37	-3.41	53.76	160	0	Average
6	24280	41.81	-12.19	54.00	59.27	39.47	-3.37	53.56	160	0	Average

Temperature	23.5~25.1℃	Relative Humidity	55.4~61.4%
Test Engineer	Eric Jeng	Test Distance	1m
Test Range	Fundamental	Test Polarization	Vertical
Remark	1. Level (dBμV/m) = Read Level (dBμV) + Antenna Factor (dB) + Path Loss(dB) - Preamp Factor (dB) 2. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Distance extrapolation factor (dB). 3. Distance extrapolation factor = 20log (1m/3m) = -9.54 (dB) 4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.		



Site : 03CH18-HY
 Condition : 15.249_Peak 1m 9170994_20250109 VERTICAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



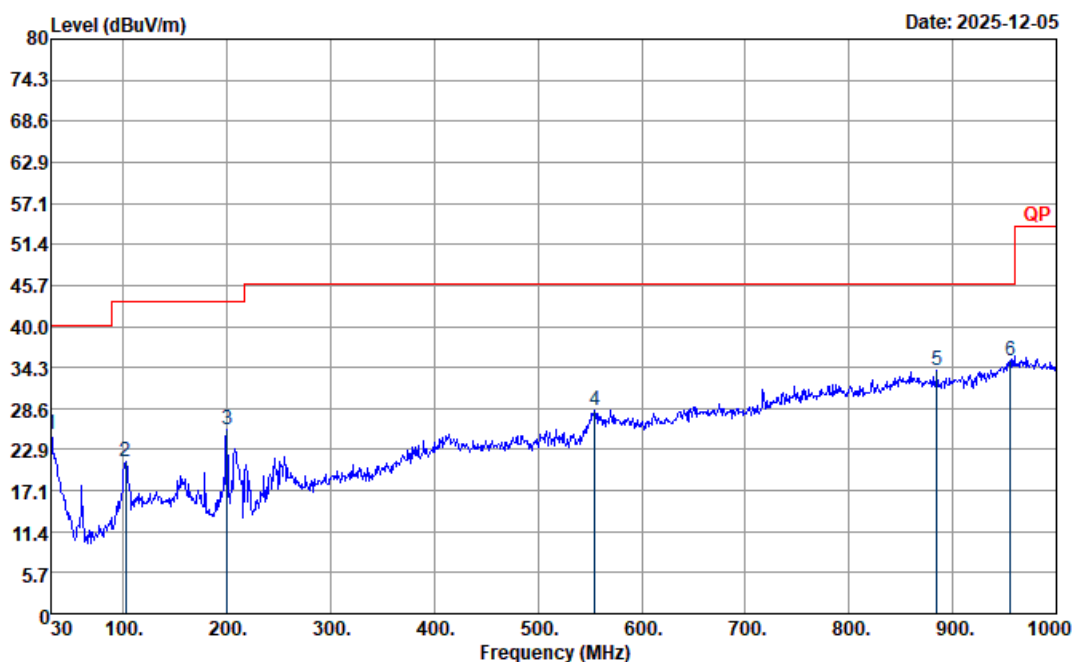
Site : 03CH18-HY
 Condition : AVG_54 1m 9170994_20250109 VERTICAL
 : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

Mark	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	24000	55.82	-18.18	74.00	73.86	39.30	-3.44	53.90	160	0	Peak
2	24120	92.65	-35.30	127.95	110.45	39.37	-3.41	53.76	160	0	Peak
3	24280	56.10	-17.90	74.00	73.56	39.47	-3.37	53.56	160	0	Peak
4	23960	49.03	-4.97	54.00	67.10	39.29	-3.44	53.92	160	0	Average
5	24120	90.01	-17.94	107.95	107.81	39.37	-3.41	53.76	160	0	Average
6	24280	48.93	-5.07	54.00	66.39	39.47	-3.37	53.56	160	0	Average



<30MHz to 1GHz>

Temperature	19.1 ~ 21.9℃	Relative Humidity	51.1 ~ 65.9%
Test Engineer	Fu Chen and Troye Hsieh	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Horizontal
Remark	- Level (dBμV/m) = Read Level (dBμV) + Antenna Factor (dB) + Path Loss(dB) - Preamp Factor (dB) - Path Loss(dB) = Cable loss(dB) + Filter loss(dB) - The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.		



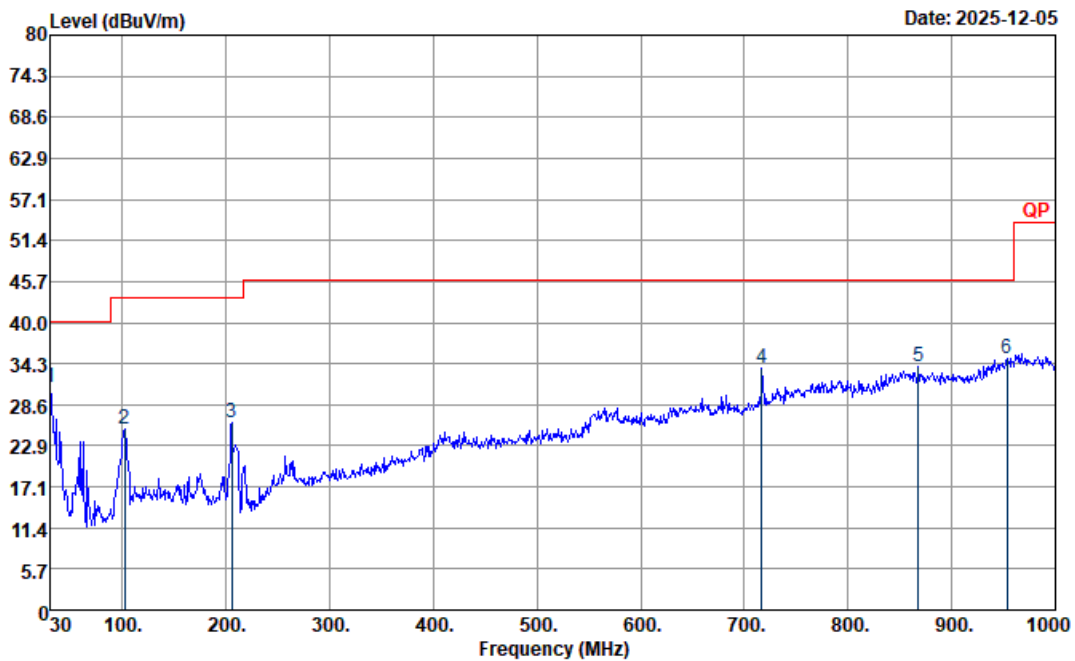
Site : 03CH11-HY

Condition : QP 3m 66925&24006_250219 HORIZONTAL

Mark	Frequency (MHz)	Level (dB μ V/m)	Margin (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30.00	24.89	-15.11	40.00	31.05	25.30	0.97	32.43	-	-	Peak
2	101.78	21.25	-22.25	43.50	35.53	16.40	1.63	32.31	-	-	Peak
3	199.75	25.69	-17.81	43.50	40.74	14.98	2.16	32.19	-	-	Peak
4	554.77	28.21	-17.79	46.00	30.82	26.16	3.40	32.17	-	-	Peak
5	884.57	33.90	-12.10	46.00	30.92	29.31	5.15	31.48	-	-	Peak
6	955.38	35.32	-10.68	46.00	29.42	31.41	5.33	30.84	-	-	Peak



Temperature	19.1 ~ 21.9℃	Relative Humidity	51.1 ~ 65.9%
Test Engineer	Fu Chen and Troye Hsieh	Test Distance	3m
Test Range	30MHz to 1GHz	Test Polarization	Vertical
Remark	1. Level (dBμV/m) = Read Level (dBμV) + Antenna Factor (dB) + Path Loss(dB) - Preamp Factor (dB) 2. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) 3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.		



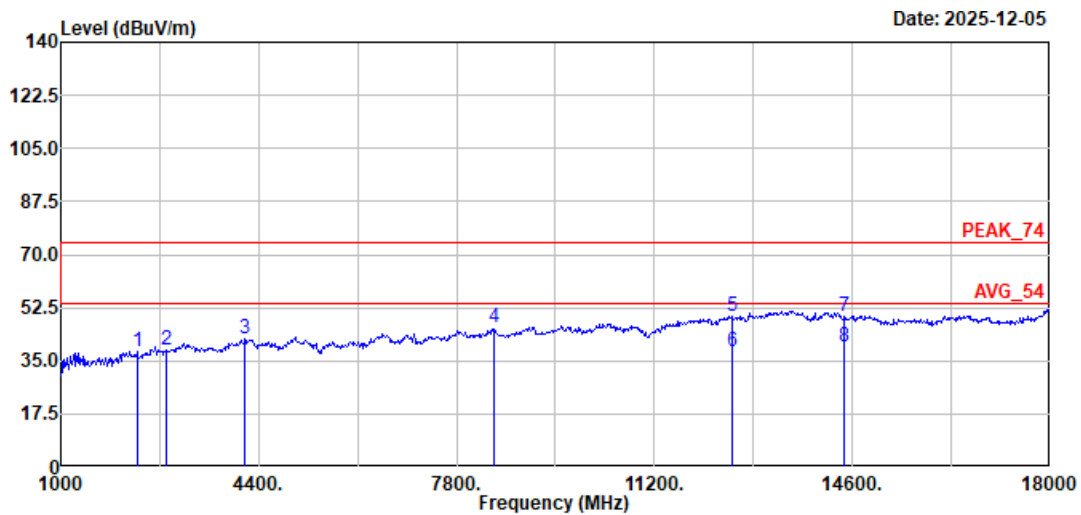
Site : 03CH11-HY
Condition : QP 3m 66925&24006_250219 VERTICAL

Mark	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30.00	31.05	-8.95	40.00	37.21	25.30	0.97	32.43	-	-	Peak
2	101.78	25.07	-18.43	43.50	39.35	16.40	1.63	32.31	-	-	Peak
3	205.57	26.11	-17.39	43.50	40.93	15.21	2.16	32.19	-	-	Peak
4	716.76	33.62	-12.38	46.00	34.46	27.07	4.22	32.13	-	-	Peak
5	868.08	33.81	-12.19	46.00	30.69	29.44	5.26	31.58	-	-	Peak
6	953.44	35.02	-10.98	46.00	29.24	31.34	5.30	30.86	-	-	Peak



<1GHz to 18GHz>

Temperature	19.1 ~ 21.9℃	Relative Humidity	51.1 ~ 65.9%
Test Engineer	Fu Chen and Troye Hsieh	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Horizontal
Remark	- Level (dBμV/m) = Read Level (dBμV) + Antenna Factor (dB) + Path Loss(dB) - Preamp Factor (dB) - Path Loss(dB) = Cable loss(dB) + Filter loss(dB) - The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.		



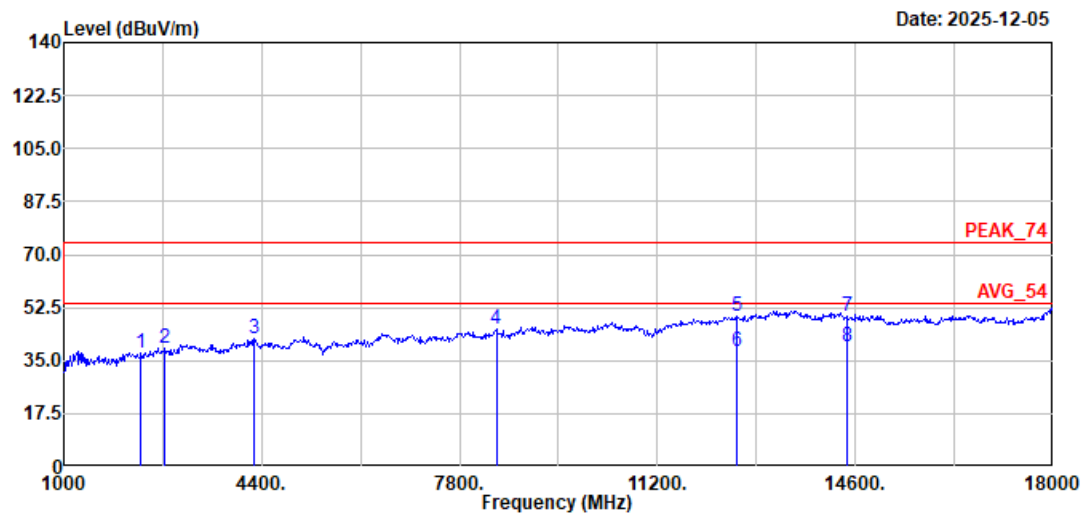
Site : 03CH11-HY

Condition: PEAK_74 3m 9120D_01620_250915 HORIZONTAL

Mark	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2309	37.90	74.00	-36.10	69.89	27.19	7.66	66.84	-	-	Peak
2	2802	38.61	74.00	-35.39	68.45	28.20	8.40	66.44	-	-	Peak
3	4162	42.09	74.00	-31.91	67.66	31.02	10.27	66.86	-	-	Peak
4	8446	45.70	74.00	-28.30	60.33	37.18	14.84	66.65	-	-	Peak
5	12526	49.90	74.00	-24.10	58.65	38.85	18.45	66.05	-	-	Peak
6	12526	37.91	54.00	-16.09	46.66	38.85	18.45	66.05	-	-	Average
7	14464	49.44	74.00	-24.56	55.15	40.23	20.00	65.94	-	-	Peak
8	14464	39.46	54.00	-14.54	45.17	40.23	20.00	65.94	-	-	Average



Temperature	19.1 ~ 21.9℃	Relative Humidity	51.1 ~ 65.9%
Test Engineer	Fu Chen and Troye Hsieh	Test Distance	3m
Test Range	1GHz to 18GHz	Test Polarization	Vertical
Remark	1. Level (dBμV/m) = Read Level (dBμV) + Antenna Factor (dB) + Path Loss(dB) - Preamp Factor (dB) 2. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.		



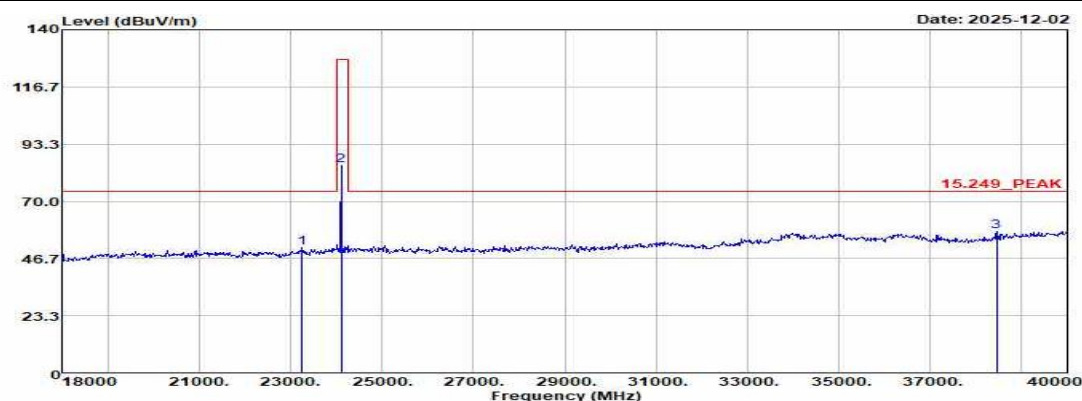
Site : 03CH11-HY
Condition: PEAK_74 3m 9120D_01620_250915 VERTICAL

Mark	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2326	37.56	74.00	-36.44	69.50	27.20	7.69	66.83	-	-	Peak
2	2734	38.96	74.00	-35.04	69.06	28.16	8.26	66.52	-	-	Peak
3	4281	42.05	74.00	-31.95	67.31	31.32	10.33	66.91	-	-	Peak
4	8429	45.19	74.00	-28.81	59.87	37.12	14.83	66.63	-	-	Peak
5	12560	49.52	74.00	-24.48	58.23	38.92	18.48	66.11	-	-	Peak
6	12560	37.93	54.00	-16.07	46.64	38.92	18.48	66.11	-	-	Average
7	14464	49.50	74.00	-24.50	55.21	40.23	20.00	65.94	-	-	Peak
8	14464	39.46	54.00	-14.54	45.17	40.23	20.00	65.94	-	-	Average

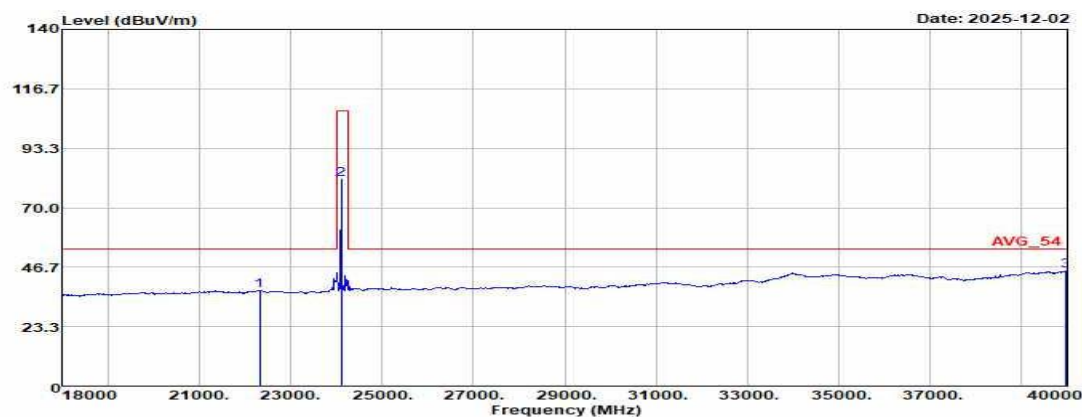


<18GHz to 40GHz>

Temperature	23.5~25.1℃	Relative Humidity	55.4~61.4%
Test Engineer	Eric Jeng	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Horizontal
Remark	5. Level (dBμV/m) = Read Level (dBμV) + Antenna Factor (dB) + Path Loss(dB) - Preamp Factor (dB) 6. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Distance extrapolation factor (dB). 7. Distance extrapolation factor = 20log (1m/3m) = -9.54 (dB) 8. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.		



Site : 03CH18-HY
Condition : 15.249_PEAK 1m 9170994_20250109 HORIZONTAL
RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

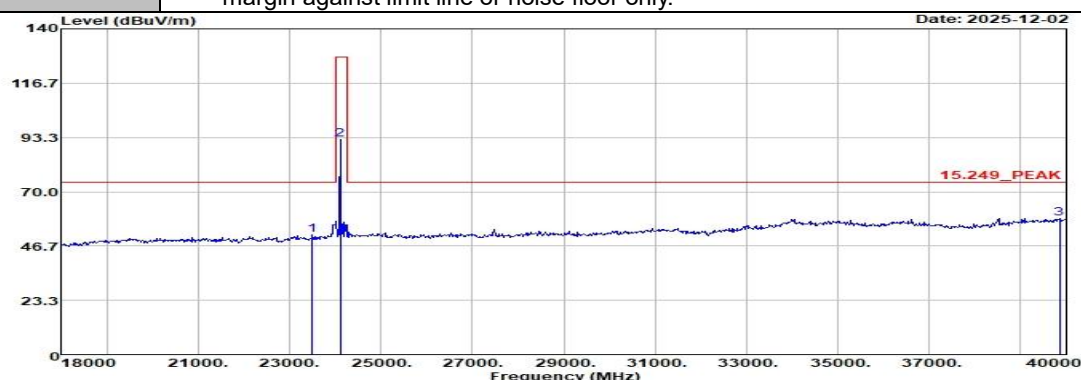


Site : 03CH18-HY
Condition : AVG_54 1m 9170994_20250109 HORIZONTAL
RBW:1000.000KHz VBW:0.010KHz SWT:Auto

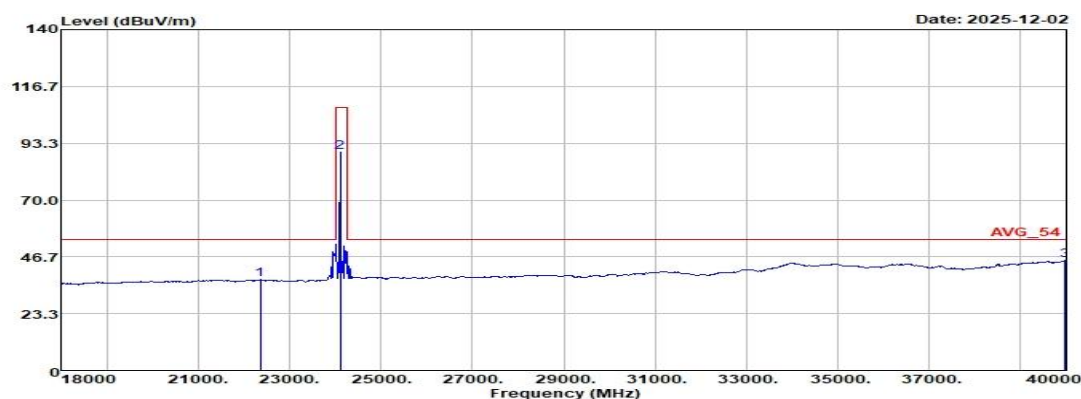
Mark	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	23258	51.08	-22.92	74.00	69.87	39.20	-3.60	54.39	-	-	Peak
2	22334	37.44	-16.56	54.00	57.11	38.80	-3.67	54.80	-	-	Average
3	24116	84.49	-43.46	127.95	102.29	39.37	-3.41	53.76	-	-	Peak
4	24116	81.27	-26.68	107.95	99.07	39.37	-3.41	53.76	-	-	Average
5	38460	57.62	-16.38	74.00	73.28	42.91	-1.42	57.15	-	-	Peak
6	39978	45.17	-8.83	54.00	58.29	43.79	-1.08	55.83	-	-	Average



Temperature	23.5~25.1℃	Relative Humidity	55.4~61.4%
Test Engineer	Eric Jeng	Test Distance	1m
Test Range	18GHz to 40GHz	Test Polarization	Vertical
Remark	1. Level (dBμV/m) = Read Level (dBμV) + Antenna Factor (dB) + Path Loss(dB) - Preamp Factor (dB) 2. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Distance extrapolation factor (dB). 3. Distance extrapolation factor = $20\log(1\text{m}/3\text{m}) = -9.54 \text{ (dB)}$ 4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.		



Site : 03CH18-HY
 Condition : 15.249_PEAK 1m 9170994_20250109 VERTICAL
 : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



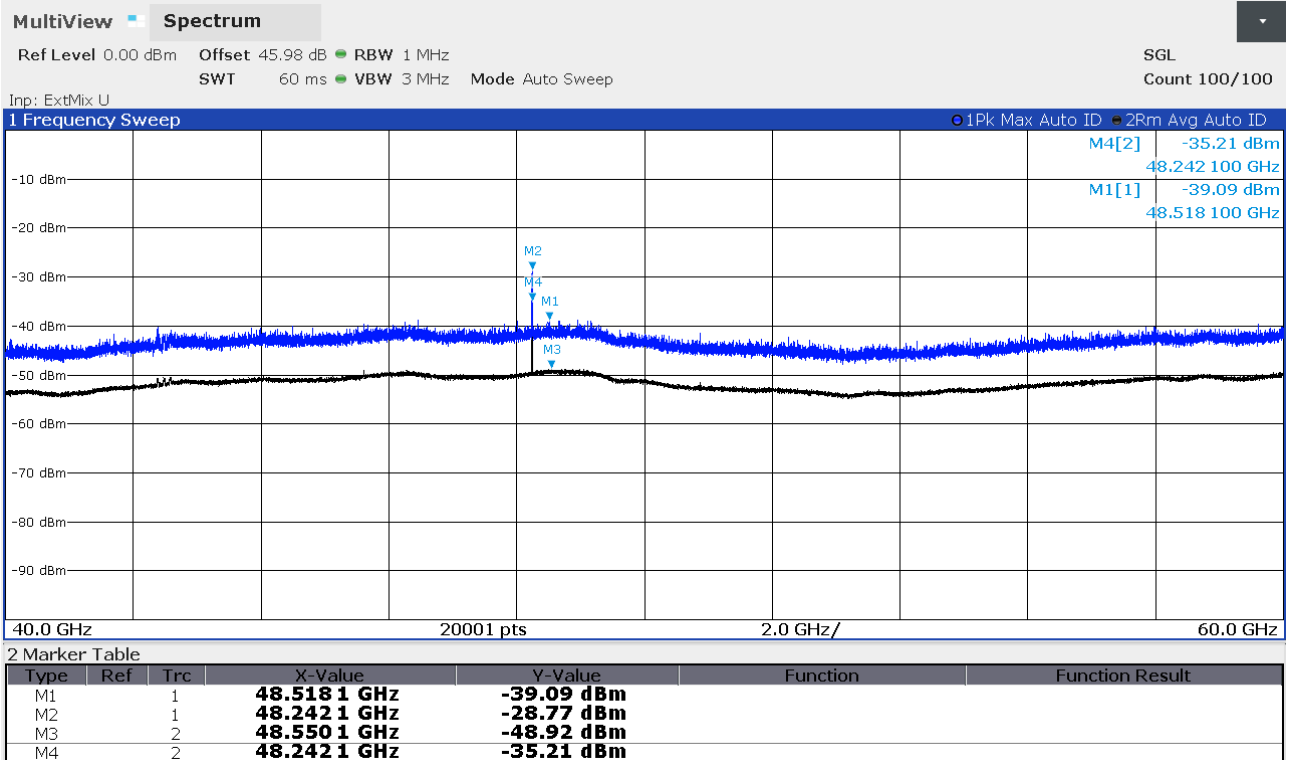
Site : 03CH18-HY
 Condition : AVG_54 1m 9170994_20250109 VERTICAL
 : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

Mark	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	23500	51.35	-22.65	74.00	69.85	39.20	-3.50	54.20	-	-	Peak
2	22356	37.28	-16.72	54.00	56.93	38.81	-3.66	54.80	-	-	Average
3	24116	92.56	-35.39	127.95	110.36	39.37	-3.41	53.76	-	-	Peak
4	24116	89.67	-18.28	107.95	107.47	39.37	-3.41	53.76	-	-	Average
5	39846	58.55	-15.45	74.00	71.79	43.71	-0.93	56.02	-	-	Peak
6	39978	45.08	-8.92	54.00	58.20	43.79	-1.08	55.83	-	-	Average



<40GHz to 60GHz>

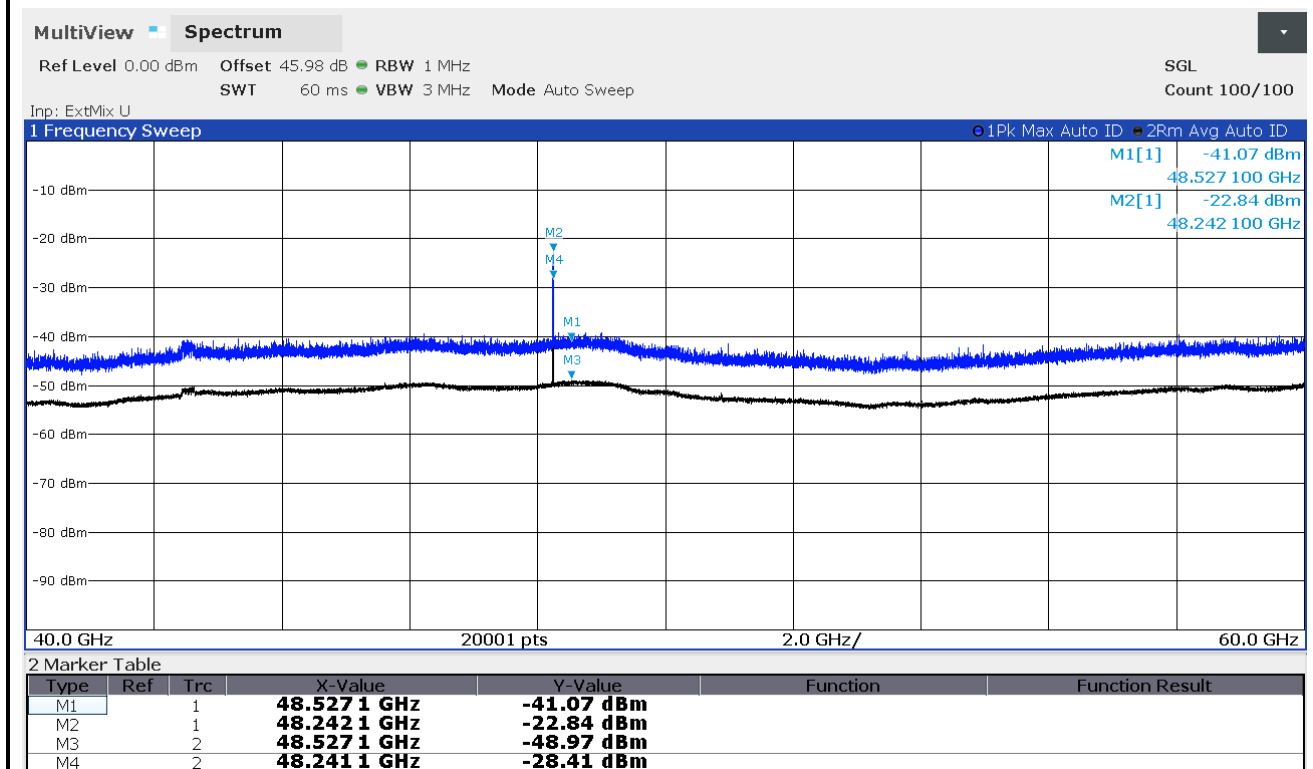
Temperature	23.5~25.1℃	Relative Humidity	55.4~61.4%
Test Engineer	Eric Jeng	Test Distance	1m
Test Range	40GHz to 60GHz	Test Polarization	Horizontal
Remark	1. No other spurious found. 2. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. 3. Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]}) \text{ (dB)}$ 4. Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54 \text{ (dB)}$ 5. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only		



Mark	Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Margin (dB)	Limit Line (dBμV/m)	EIRP Level (dBm)	Ant Pos (cm)	Table Pos (deg)	Remark
1	48.242	66.47	-9.54	-21.48	87.95	-28.77	-	-	Peak
2	48.242	60.03	-9.54	-7.92	67.95	-35.21	-	-	Average
3	48.518	56.15	-9.54	-17.85	74.00	-39.09	-	-	Peak
4	48.550	46.32	-9.54	-7.68	54.00	-48.92	-	-	Average



Temperature	23.5~25.1℃	Relative Humidity	55.4~61.4%
Test Engineer	Eric Jeng	Test Distance	1m
Test Range	40GHz to 60GHz	Test Polarization	Vertical
Remark	1. No other spurious found. 2. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. 3. Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]}) \text{ (dB)}$ 4. Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54 \text{ (dB)}$ 5. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only		

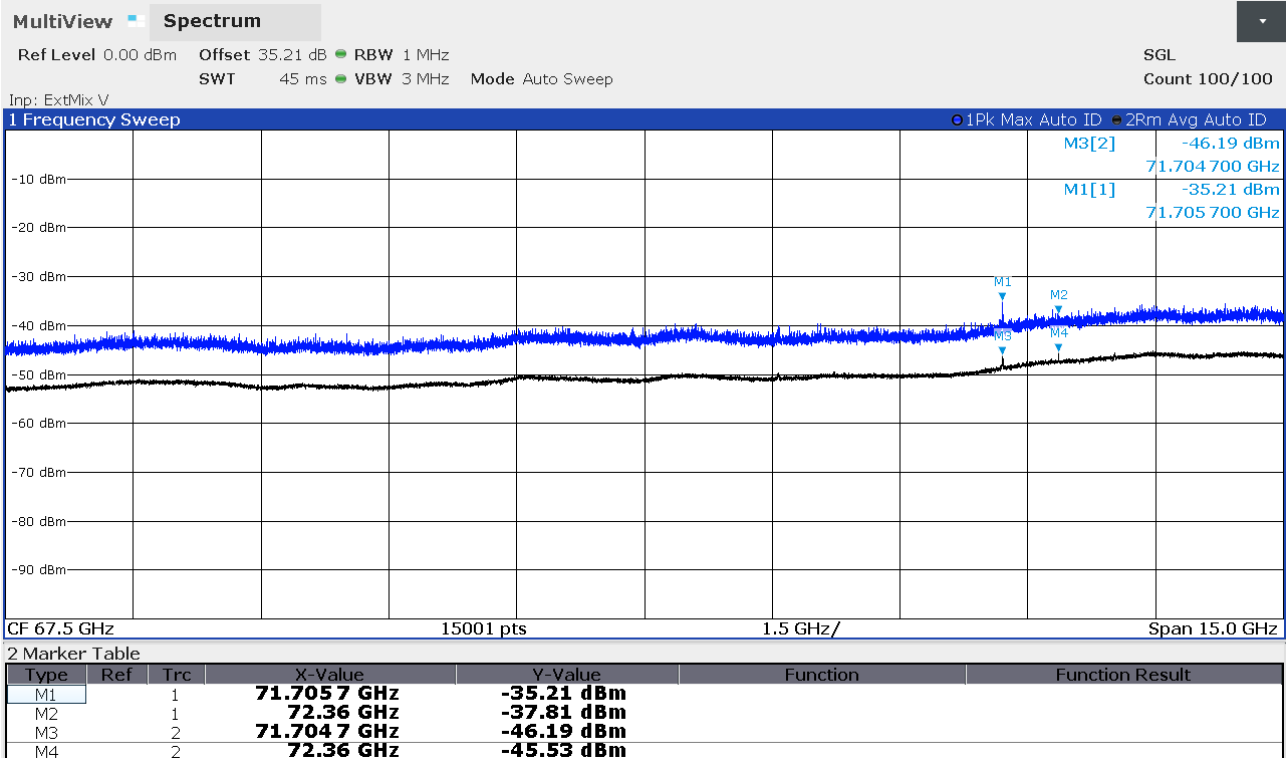


Mark	Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Margin (dB)	Limit Line (dBμV/m)	EIRP Level (dBm)	Ant Pos (cm)	Table Pos (deg)	Remark
1	48.242	72.40	-9.54	-15.55	87.95	-22.84	-	-	Peak
2	48.241	66.83	-9.54	-1.12	67.95	-28.41	-	-	Average
3	48.527	54.17	-9.54	-19.83	74.00	-41.07	-	-	Peak
4	48.527	46.27	-9.54	-7.73	54.00	-48.97	-	-	Average



<60GHz to 75GHz>

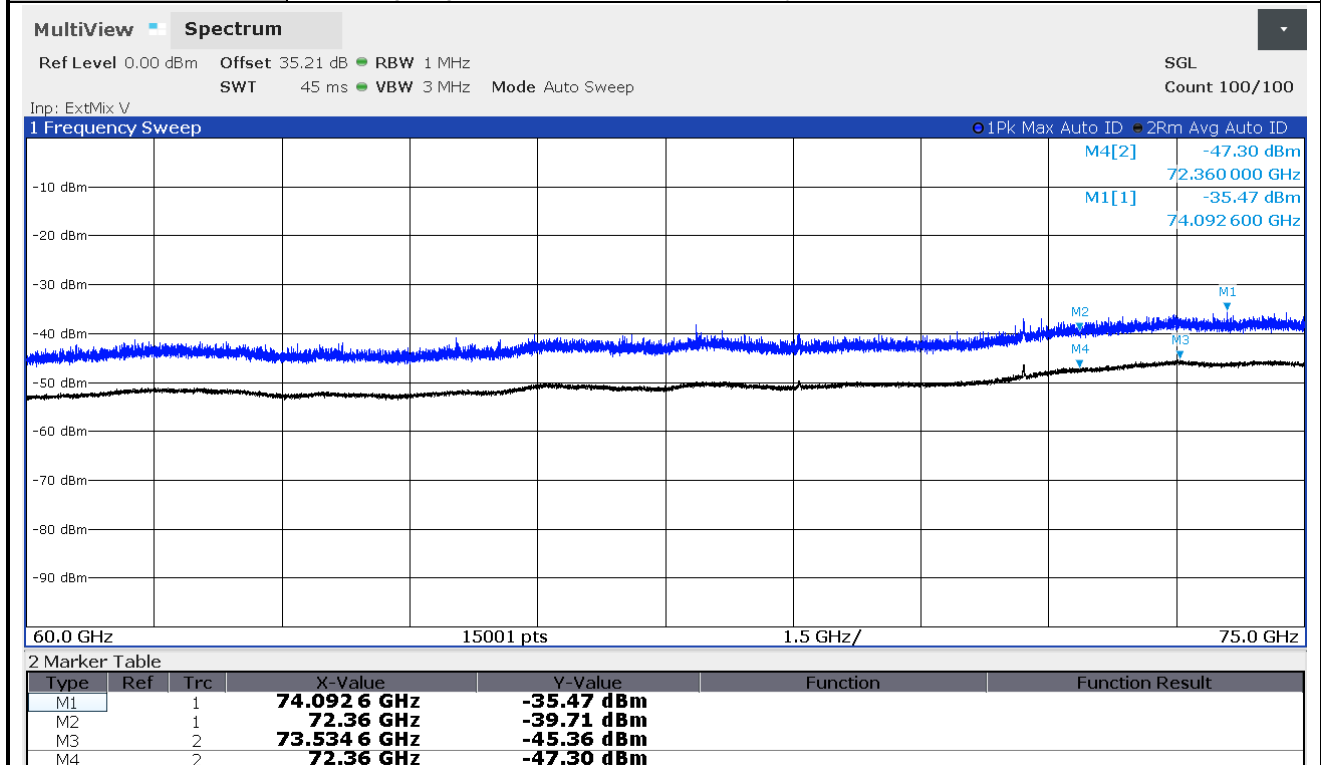
Temperature	23.5~25.1℃	Relative Humidity	55.4~61.4%
Test Engineer	Eric Jeng	Test Distance	1m
Test Range	60GHz to 75GHz	Test Polarization	Horizontal
Remark	1. No other spurious found. 2. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. 3. Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]}) \text{ (dB)}$ 4. Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54 \text{ (dB)}$ 5. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only		



Mark	Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Margin (dB)	Limit Line (dBμV/m)	EIRP Level (dBm)	Ant Pos (cm)	Table Pos (deg)	Remark
1	71.705	60.03	-9.54	-13.97	74.00	-35.21	-	-	Peak
2	71.704	49.05	-9.54	-4.95	54.00	-46.19	-	-	Average
3	72.360	57.43	-9.54	-30.52	87.95	-37.81	-	-	Peak
4	72.360	49.71	-9.54	-18.24	67.95	-45.53	-	-	Average



Temperature	23.5~25.1°C	Relative Humidity	55.4~61.4%
Test Engineer	Eric Jeng	Test Distance	1m
Test Range	60GHz to 75GHz	Test Polarization	Vertical
Remark	1. No other spurious found. 2. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. 3. Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]}) \text{ (dB)}$ 4. Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54 \text{ (dB)}$ 5. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only		

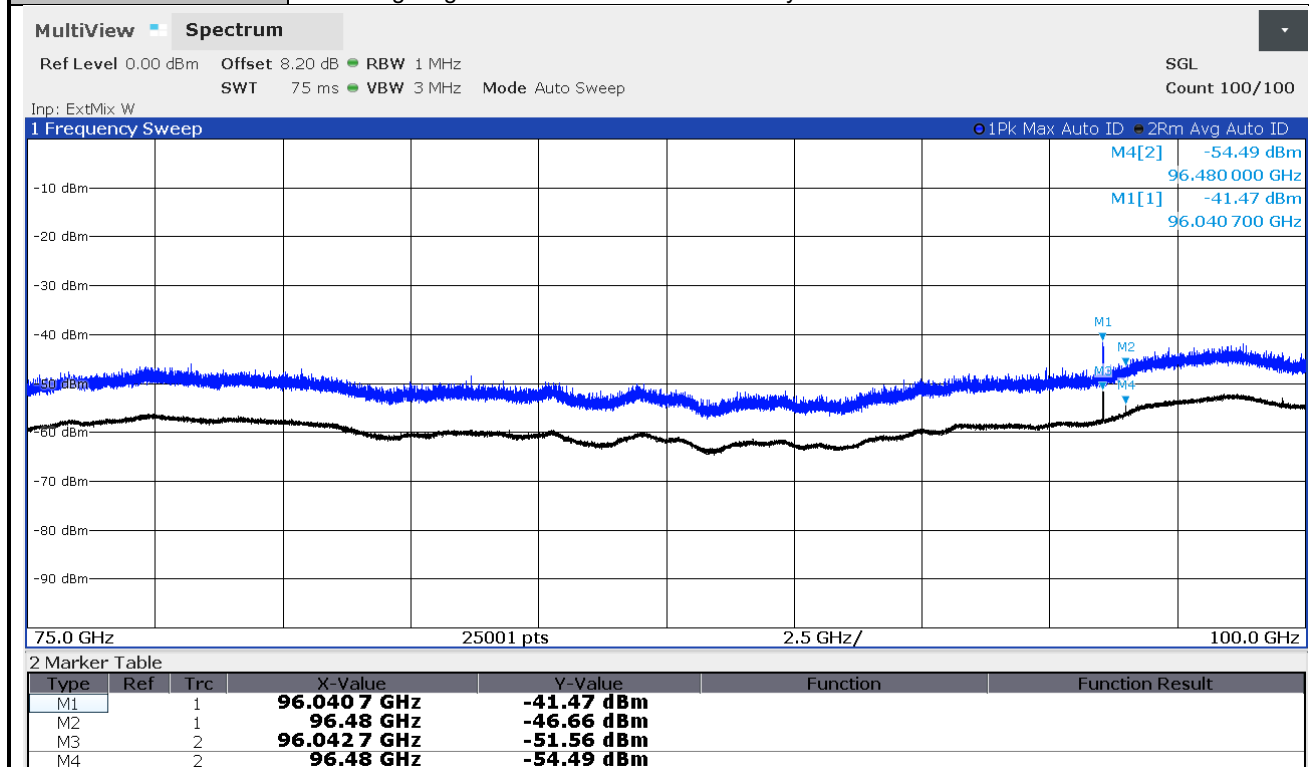


Mark	Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Margin (dB)	Limit Line (dBμV/m)	EIRP Level (dBm)	Ant Pos (cm)	Table Pos (deg)	Remark
1	72.360	55.53	-9.54	-32.42	87.95	-39.71	-	-	Peak
2	72.360	47.94	-9.54	-20.01	67.95	-47.30	-	-	Average
3	74.092	59.77	-9.54	-14.23	74.00	-35.47	-	-	Peak
4	73.534	49.88	-9.54	-4.12	54.00	-45.36	-	-	Average



<75GHz to 10GHz>

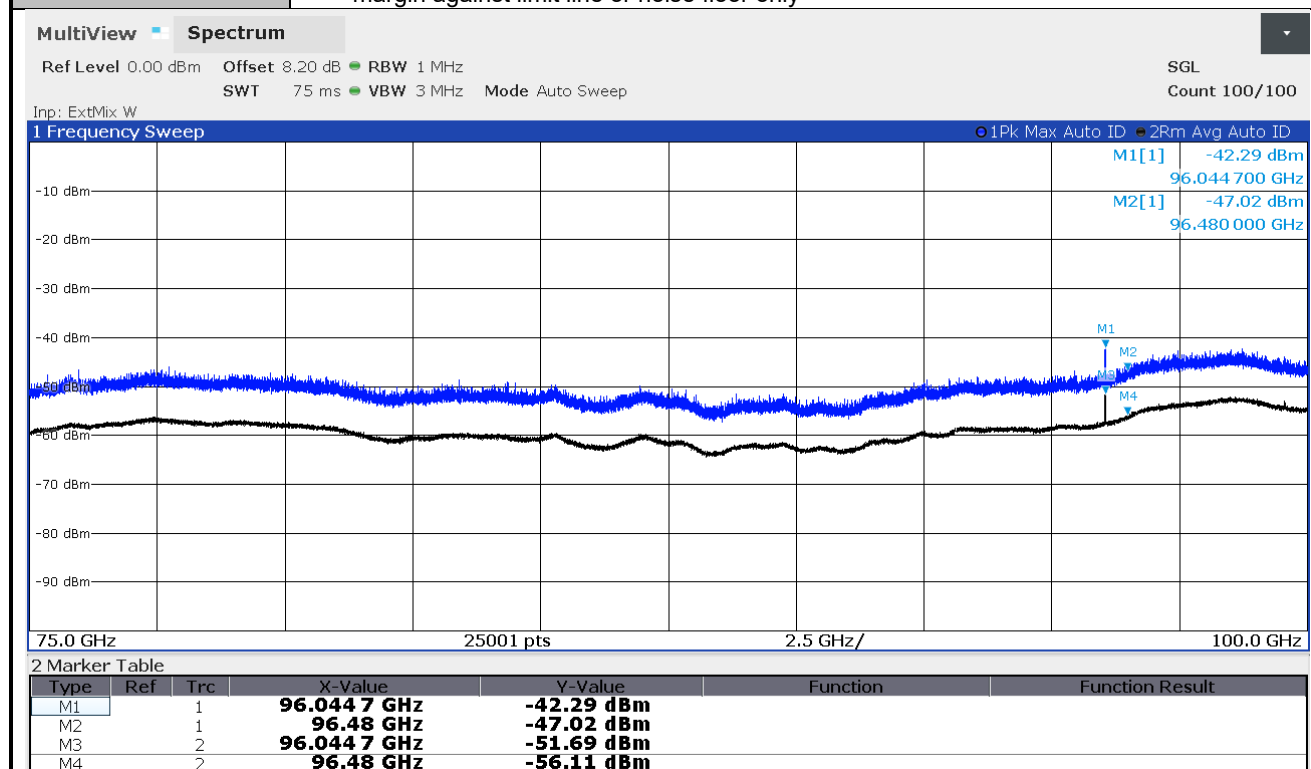
Temperature	23.5~25.1℃	Relative Humidity	55.4~61.4%
Test Engineer	Eric Jeng	Test Distance	0.5m
Test Range	75GHz to 100GHz	Test Polarization	Horizontal
Remark	- No other spurious found. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. - Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]}) \text{ (dB)}$ - Distance extrapolation factor = $20 \log (0.5\text{m}/3\text{m}) = -15.56 \text{ (dB)}$ - The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only		



Mark	Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Margin (dB)	Limit Line (dBμV/m)	EIRP Level (dBm)	Ant Pos (cm)	Table Pos (deg)	Remark
1	96.040	53.75	-15.56	-20.25	74.00	-41.47	-	-	Peak
2	96.042	43.66	-15.56	-10.34	54.00	-51.56	-	-	Average
3	96.480	48.56	-15.56	-39.39	87.95	-46.66	-	-	Peak
4	96.480	40.73	-15.56	-27.22	67.95	-54.49	-	-	Average



Temperature	23.5~25.1℃	Relative Humidity	55.4~61.4%
Test Engineer	Eric Jeng	Test Distance	0.5m
Test Range	75GHz to 100GHz	Test Polarization	Vertical
Remark	1. No other spurious found. 2. $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. 3. Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]}) \text{ (dB)}$ 4. Distance extrapolation factor = $20 \log (0.5\text{m}/3\text{m}) = -15.56 \text{ (dB)}$ 5. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only		



Mark	Frequency (MHz)	Level (dBμV/m)	Distance extrapolation Factor (dB)	Margin (dB)	Limit Line (dBμV/m)	EIRP Level (dBm)	Ant Pos (cm)	Table Pos (deg)	Remark
1	96.044	52.93	-15.56	-21.07	74.00	-42.29	-	-	Peak
2	96.044	43.53	-15.56	-10.47	54.00	-51.69	-	-	Average
3	96.480	48.20	-15.56	-39.75	87.95	-47.02	-	-	Peak
4	96.480	39.11	-15.56	-28.84	67.95	-56.11	-	-	Average