RF Test Report

Applicant	:	Telly, Inc.
Product Name	:	mmWave Radar
Trade Name	:	Telly
Model Number	:	MW001
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART C ANSI C63.10:2013
Received Date	:	May 22, 2025
Test Period	:	Jul. 28, 2025 ~ Aug. 04, 2025
Issued Date	:	Aug. 12, 2025

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City, Taiwan (R.O.C.)
Tel：+886-3-2710188 / Fax：+886-3-2710190

Taiwan Accreditation Foundation accreditation number: 1330
Frequency Range: 9 kHz to 325 GHz
Bade test site：
Test Firm Registration Number: 226252
Test Firm Designation Number: TW0010
Wugu test site：
Test Firm Registration Number: 191812
Test Firm Designation Number: TW0034

Note:
1.The test results are valid only for samples provided by customers and under the test conditions described in this report.
2.This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
3.The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Rev.	Issued Date	Description	Revised by
00	Aug. 12, 2025	Initial Issue	Snow Wang

Verification of Compliance

Applicant	:	Telly, Inc.
Product Name	:	mmWave Radar
Trade Name	:	Telly
Model Number	:	MW001
FCC ID	:	2BBQXMW001
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART C ANSI C63.10:2013
Test Result	:	Complied
Issued By	:	Eurofins E&E Wireless Taiwan Co., Ltd. No. 140-1, Changan Street, Bade District, Taoyuan City, Taiwan (R.O.C.) Tel：+886-3-2710188 / Fax：+886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330

Testing Laboratory 1330

Eurofins E&E Wireless Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Kai Yu Yang

TABLE OF CONTENTS

1 General Information

1.1. Summary of Test Result

FCC Standard	Item	Result	Remark
15.207	AC Power Conducted Emission	PASS	-----
15.205, 15.209	Transmitter Radiated Emissions (Below 40 GHz)	PASS	-----
15.255(d)	Transmitter Radiated Emissions (Above 40 GHz)	PASS	-----
15.255(c)	EIRP (Peak & Avg)	N/A	Note
15.255(e)	Peak Conducted Output Power	N/A	Note
2.1049	99% Occupied Bandwidth	N/A	Note
15.215 (c)	20 dB Emission Bandwidth	N/A	Note
15.255(f)	Frequency Stability	N/A	Note
15.203	Antenna Requirement	N/A	Note

Note：No test for this item, test results could be referred to RF module MW001 report (FCCSZ2024-0060-RF).

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
TCB Workshop	2023-10-25-3.1 Part 15.255 Rules Amendment General Measurement Guidance

Decision Rule

■ Uncertainty is not included.

□ Uncertainty is included.

1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address: ■ No. 140-1, Changan Street, Bade District, Taoyuan City, Taiwan (R.O.C.)

Site Address: □ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

Test Item	Frequency	Uncertainty				
		BD		WG		
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB		2.6 dB		
Test Item	Frequency	Uncertainty				
		96601-BD	96603-BD	96602-WG	96603-WG	96604-WG
Radiated Emission	9 kHz ~ 30 MHz	1.8 dB	1.8 dB	1.9 dB	1.9 dB	1.9 dB
	30 MHz ~ 1000 MHz	4.7 dB	4.7 dB	4.7 dB	4.7 dB	4.5 dB
	1000 MHz ~ 18000 MHz	4.7 dB	4.8 dB	4.6 dB	4.7 dB	5.1 dB
	18000 MHz ~ 26500 MHz	4.0 dB	4.1 dB	3.9 dB	4.1 dB	4.3 dB
	26500 MHz ~ 40000 MHz	4.2 dB	4.2 dB	4.2 dB	4.2 dB	4.6 dB
	40000 MHz ~ 325000 MHz	3.0 dB	3.0 dB	3.0 dB	3.0 dB	2.9 dB

1.4. Test Site Environment

Items	Required (IEC 60068-1)	Interval(*)
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75

(*)The measurement ambient temperature is within this range.

2 EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity(except Max. RF Output Power, Max. EIRP).

Applicant	Telly, Inc. 14622 Ventura Blvd, Ste 102 PMB 2037, Sherman Oaks, California 91403-3662, United States
Product Name	mmWave Radar
Trade Name	Telly
Model Number	MW001
FCC ID	2BBQXMW001
Host Information	Product Name: LED TV Trade Name: Telly Model Name: TY55-1
Frequency Range	60-64 GHz
Modulation Type	FMCW
Number of Channel	1 CH
Antenna Type	Integrated patch antenna
Antenna Gain	1.79 dBi
Operate Temp. Range	-10 ~ +60 ℃
EUT Power Rating	5 Vdc

Testing Sample No.	
Test Item	Sample Number
Radiated Emissions	C255226_A003
Conducted Emission	C255226_A003

EUT Modify Description：

Modify Description: Add Host. After the evaluation, AC Power Line and Radiation(Below 1GHz、1GHz to 40GHz、PSD) need to be verified. Other data refer to the original report.

3 Test Methodology

3.1. Mode of Operation

Decision of Test Eurofins has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	Final-Test Mode
SRD_60-64GHz	V

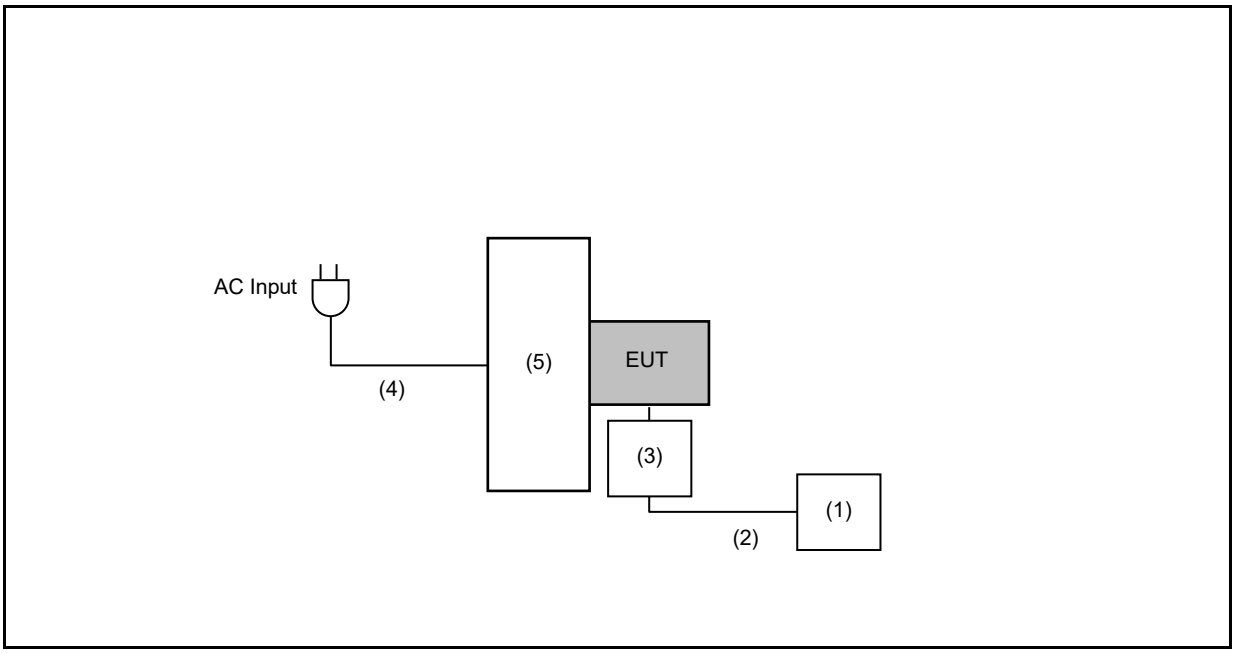
By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “X axis” position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

3.2. EUT Test Step

1	Setup the EUT shown on “Configuration of Test System Details”.
2	Turn on the power of EUT.

3.3. Configuration of Test System Details

Radiated Emission



Product		Manufacturer	Model Number
(1)	NB	ASUS	BU400A
(2)	USB CABLE	i-wiz	USB2.0
(3)	Download board	FTC	TY55-1
(4)	Power Core	NO	NO
(5)	LED TV (Host)	FTC	TY55-1

3.4. Test Instruments

For Conducted Emission
Test Period: Aug. 04, 2025
Testing Engineer: Jayson Hsieh

Test Site		Conduction01-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Test Receiver	R&S	ESCI	100367	May 26, 2025	1 year
☐	Test Receiver	R&S	ESCI	100722	Oct. 26, 2023	1 year
☐	Test Receiver	R&S	ESCI	101000	Nov. 23, 2023	1 year
☒	LISN	R&S	ENV216	101040	Feb. 26, 2025	1 year
☐	LISN	R&S	ENV216	101140	Jan. 15, 2024	1 year
☒	RF Cable	Woken	00100D1380194M	TE-02-03	Jun. 10, 2025	1 year
☒	Software	EZ EMC	1.1.4.3	N/A	N.C.R.	---

☒ means with testing used ;
☐ means without testing used
Note: N.C.R. = No Calibration Request.

For Conducted
Test Period: Aug. 04, 2025
Testing Engineer: John Chen

Test Site		RF01-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Mar. 07, 2025	1 year
☒	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 26, 2025	1 year
☒	True RMS Multimeter	FLIKE	87V	15530240	Jun. 16, 2023	1 year
☒	Power Supply	KEITHLEY	2303	4045290	Jan. 03, 2025	1 year
☒	Millimeter-Wave Signal Analyzer Frequency Extension Module (50-75GHz)	VDI	N9029AV15 (SAX 410)	US54250165	Aug. 23, 2023	2 years
☒	Std Gain Horn Antenna Std Gain (50-75GHz)	VDI	N9029AH15 (WR15)	WR15-01	Aug. 22, 2023	2 years

Note: N.C.R. = No Calibration Request.

For Radiated Emissions
Test Period: Jul. 28, 2025 ~ Jul. 30, 2025
Testing Engineer: Bruce Chen

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☐	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	Jan. 04, 2024	1 year
☒	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Mar. 07, 2025	1 year
☐	Spectrum Analyzer (2 Hz~50 GHz)	Keysight	N9030B	MY57143537	Apr. 18, 2023	1 year
☒	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9020B	MY60112363	Jan. 13, 2025	1 year
☒	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 14, 2025	1 year
☐	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A10961	Jul. 10, 2023	1 year
☐	Broadband Amplifier (100 kHz~1 GHz)	Titan	T0910E00014330A1F	001	Jul. 31, 2024	1 year
☐	Amplifier (1 GHz~26.5 GHz)	Agilent	8449B	3008A02237	Oct. 30, 2024	1 year
☒	Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02455	Jul. 10, 2025	1 year
☐	Broadband Amplifier (1 GHz~26.5 GHz)	Titan	T0912E01263025A1F	002	Jul. 31, 2024	1 year
☒	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Sep. 02, 2024	1 year
☐	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 27, 2025	1 year
☐	Active Loop Antenna (9 kHz~30 MHz)	Schwarzbeck Mess-Elektronik	FMZB 1513-60	1513-60-031	Feb. 23, 2024	1 year
☐	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jun. 26, 2025	1 year
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	416	Jun. 19, 2025	1 year
☒	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	02207	Aug. 30, 2024	1 year
☐	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	9120D-550	Jul. 22, 2024	1 year
☒	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Jul. 22, 2024	1 year
☐	Horn Antenna (18 GHz~40 GHz)	ETS	3116	00086467	Dec. 05, 2024	1 year

☒ means with testing used ;
☐ means without testing used
Note: N.C.R. = No Calibration Request.

For Radiated Emissions
Test Period: Jul. 28, 2025 ~ Jul. 30, 2025
Testing Engineer: Bruce Chen

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Coaxial Cable	Titan	T0710AT327A 10A100	J11006	Aug. 08, 2024	1 year
☒	Coaxial Cable	Titan	T0710AT327A 10A900	J11003	Aug. 08, 2024	1 year
☒	Coaxial Cable	Titan	EMCCFD400-NM-NM-13000	210302	Aug. 08, 2024	1 year
☒	Millimeter-Wave Signal Analyzer Frequency Extension Module (50-75GHz)	VDI	N9029AV15 (SAX 410)	US54250165	Aug. 23, 2023	2 years
☒	Millimeter-Wave Signal Analyzer Frequency Extension Module (60-90GHz)	VDI	N9029AV12 (SAX 409)	US54250171	Aug. 23, 2023	2 years
☒	Millimeter-Wave Signal Analyzer Frequency Extension Module (90-140GHz)	VDI	N9029AV08 (SAX 406)	US53250013	Aug. 24, 2023	2 years
☒	Millimeter-Wave Signal Analyzer Frequency Extension Module (140-220GHz)	VDI	N9029AV05 (SAX 407)	US53250020	Aug. 28, 2023	2 years
☒	Millimeter-Wave Signal Analyzer Frequency Extension Module (220-330GHz)	VDI	N9029AV03 (SAX 408)	US53250022	Aug. 28, 2023	2 years
☒	Horn Antenna (33-50GHz)	QuinStar	QWH-QPRR00	1231900027	Aug. 21, 2023	2 years
☒	Std Gain Horn Antenna Std Gain (50-75GHz)	VDI	N9029AH15 (WR15)	WR15-01	Aug. 22, 2023	2 years
☒	Std Gain Horn Antenna Std Gain (60-90GHz)	VDI	N9029AH12 (WR12)	WR12-01	Aug. 22, 2023	2 years
☒	Std Gain Horn Antenna Std Gain (90-140GHz)	VDI	N9029AH08 (WR8.0)	WR08-01	Aug. 22, 2023	2 years
☒	Std Gain Horn Antenna Std Gain (140-220GHz)	VDI	N9029AH05 (WR5.0)	WR05-01	Aug. 28, 2023	2 years
☒	Std Gain Horn Antenna Std Gain (220-330GHz)	VDI	N9029AH03 (WR3.4)	WR3.4-01	Aug. 28, 2023	2 years
☒	Power Supply	KEITHLEY	2303	4045290	Jan. 03, 2025	1 year
☒	Software	R_RAN	1.4	N/A	N.C.R.	---

☒ means with testing used ;
☐ means without testing used
Note: N.C.R. = No Calibration Request.

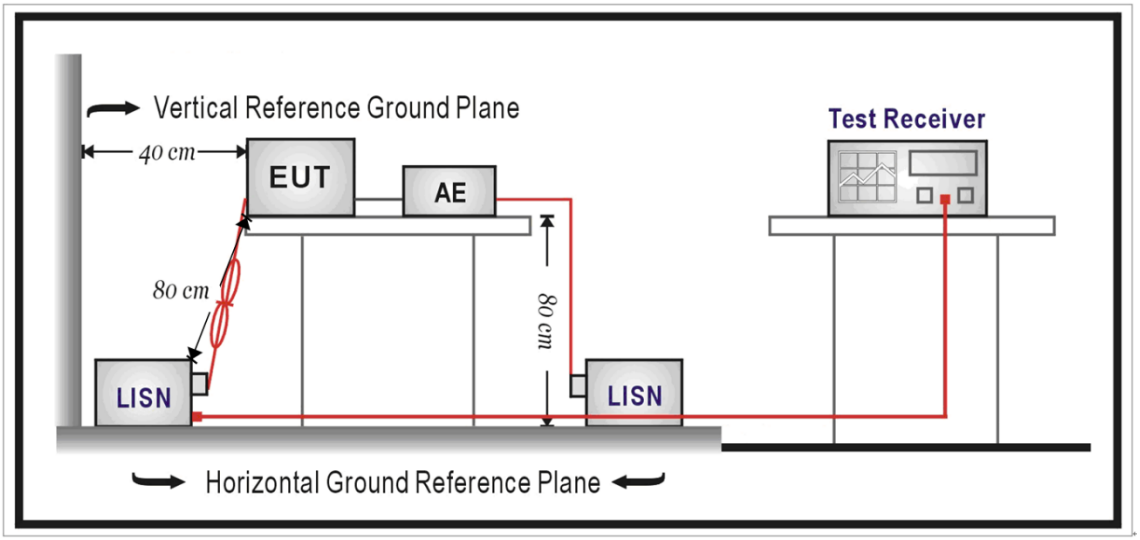
4 Measurement Procedure

4.1. AC Power Line Conducted Emission Measurement

■ **Limit**

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

■ **Test Setup**



■ **Test Procedure**

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 Ω// 50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 Ω// 50 uH coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

4.2. Radiated Emission Measurement

■ **Limit**

(1) The power density of any emissions outside the 57–71 GHz band shall consist solely of spurious emissions.

(2) Radiated emissions below 40 GHz shall not exceed the general limits in § 15.209.

(3) Between 40 GHz and 200 GHz, the level of these emissions shall not exceed 90 pW/cm^2 at a distance of 3 meters.

(4) The levels of the spurious emissions shall not exceed the level of the fundamental emission.

Limits of Radiated Emission Measurement (FCC 15.209):

Frequency (MHz)	Field Strength (μV/m at meter)	Measurement Distance (meter)
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

Note: (1) The tighter limit applies at the band edges.

(2) Emission level (dBuV/m)=20 log Emission level (uV/m).

Radiated emissions above 40 GHz:

Frequency Range (GHz)	Limit (pW/cm^2) @ 3 m	Equivalent to EIRP limit (dBm)
40-200	90	-9.92

Note: (1) PD = $EIRP_{Linear}$ / (4 * π * d^2)

Where:

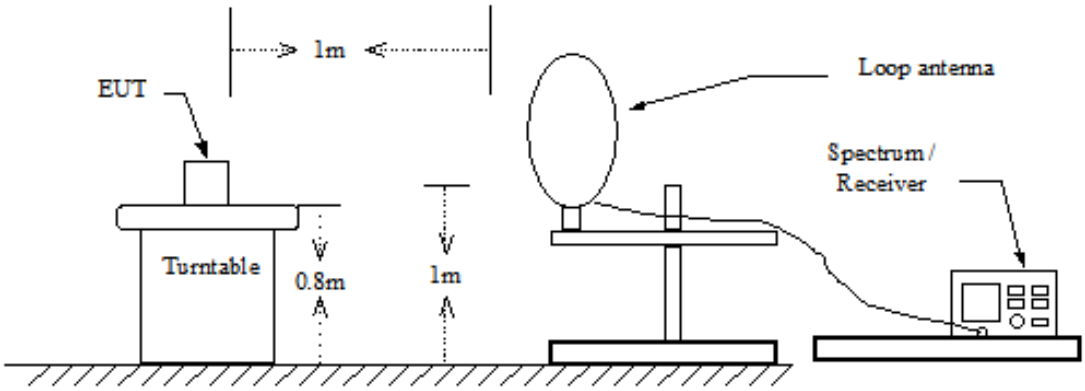
PD is the power density at the distance specified by the limit, in W/m2

$EIRP_{Linear}$ is the equivalent isotropically radiated power, in watts

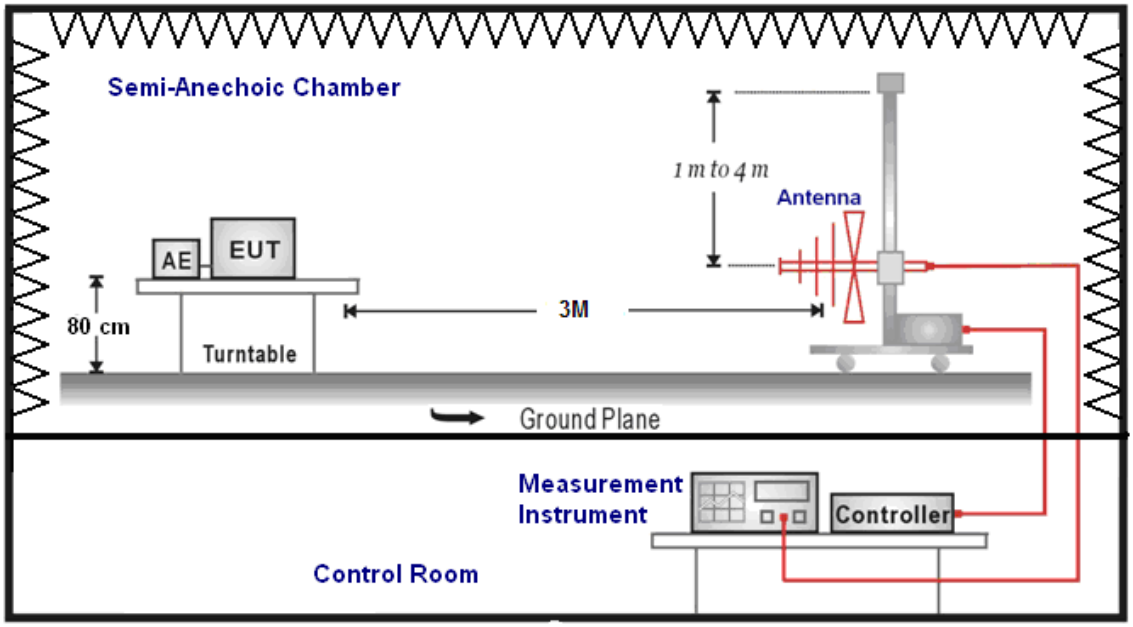
d is the distance at which the power density limit is specified, in m

■ **Setup**

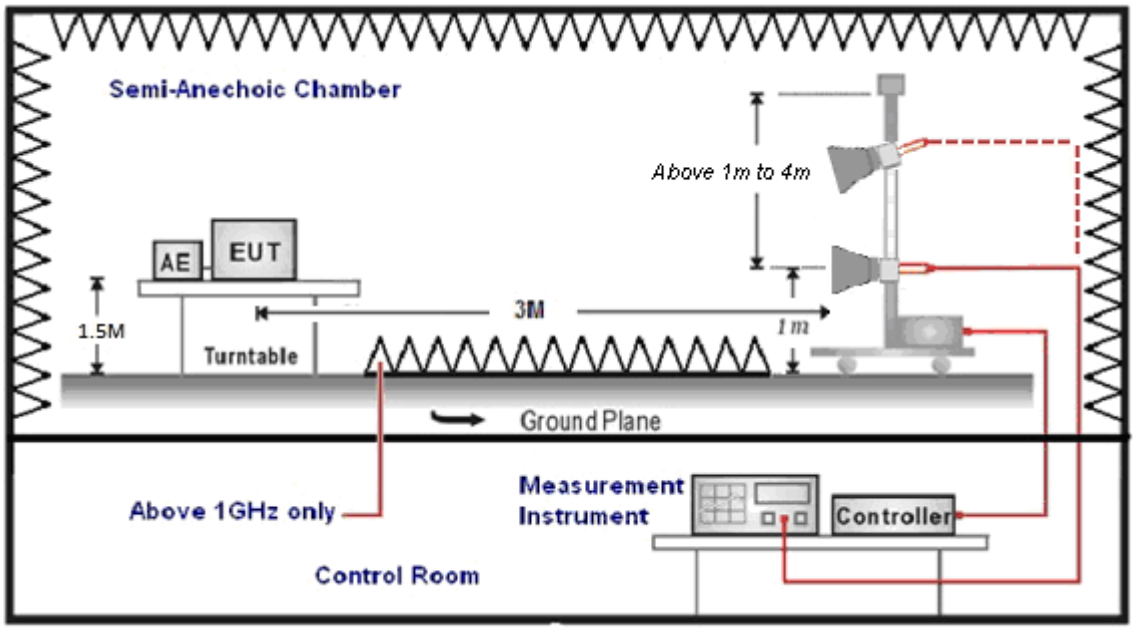
Below 30 MHz



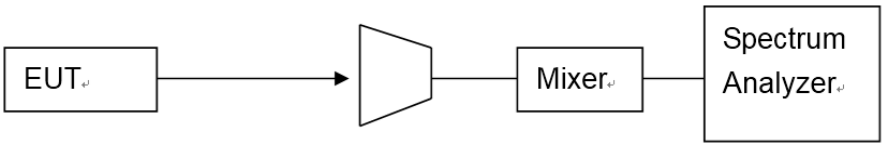
30 MHz ~ 1 GHz



Above 1 GHz



Above 50 GHz



■ **Test Procedure**

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The EUT was set to transmit continuously & Measurements range from 9 kHz to 10th harmonic is investigated.

For measurements below 30 MHz the resolution bandwidth is set to 10 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements. The video bandwidth is 3 times of the resolution bandwidth.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak (detector for peak) measurements and average (detector for peak) measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

Biconilog Antenna at 3 Meter and the Horn Antenna was used in frequencies 18 – 40 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro colts per meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)
FI= Reading of the field intensity.
AF= Antenna factor.
CL= Cable loss.
P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)
The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:
(a) For fundamental frequency : Transmitter Output < +30 dBm
(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Above 40GHz: $E = 126.8 - 20\log(\lambda) + P - G$

E is the field strength of the emission at the measurement distance, in dBuV/m

P is the power measured at the output of the test antenna, in dBm

λ is the wavelength of the emission under investigation [300/fMHz], in m

G is the gain of the test antenna, in dBi

Note: The measured power P includes all applicable instrument correction factors up to the connection to the test antenna.

Measurement distance conversion calculation formula:

$E_{Space\ Limit} = E_{Meas} + 20\log(D_{Meas} / D_{Space\ Limit})$

E_{Space} Limit is the field strength of the emission at the distance specified by the limit, in dBuV/m

E_{Meas} is the field strength of the emission at the distance specified by the limit, in dBuV/m

D_{Meas} is the measurement distance, in m

D_{Space} Limit is the distance specified by the limit, in m

Field strength to EIRP calculation formula:

$EIRP = E + 20\log(d) – 104.7$

EIRP is the equivalent isotropically radiated power, in dBm

E is the field strength of the emission at the measurement distance, in dBuV/m

d is the measurement distance, in m

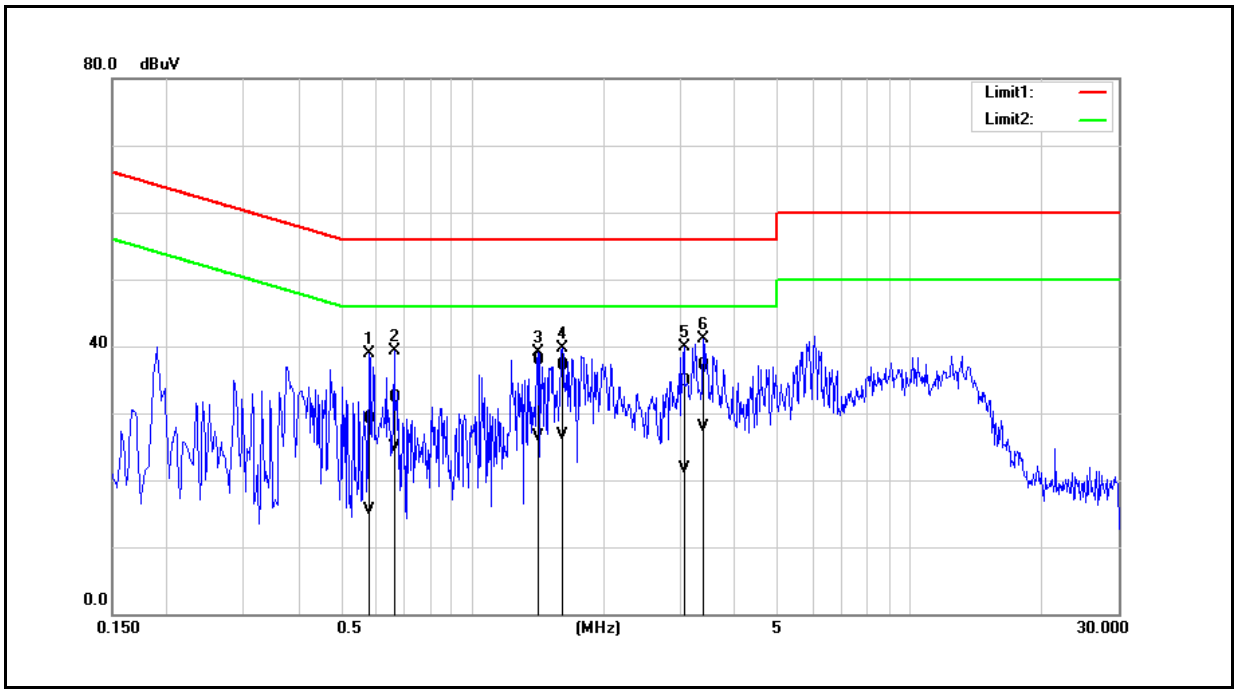
Far Field Distance Evaluation:

Rx Antenna	Frequency (GHz)	Wavelength λ (m)	Measurement Antenna D (m)	Far field Rm (m) ≧ $2*D^2/\lambda$	Measurement Distance d_1 (m)	Distance specified by the limit d_2 (m)	Distance Factor = 20* log (d_1/d_2) (dB)
9170	18	0.0167	0.06	0.43	1	3	-9.54
	40	0.0075	0.06	0.96	1	3	-9.54
QWH-QPRR00	40	0.0075	0.0389	0.40	1	3	-9.54
	50	0.0060	0.0389	0.50	1	3	-9.54
N9029AH15	50	0.0060	0.0241	0.19	1	3	-9.54
	75	0.0040	0.0241	0.29	1	3	-9.54
N9029AH12	60	0.0050	0.0199	0.16	1	3	-9.54
	90	0.0033	0.0199	0.24	1	3	-9.54
N9029AH08	90	0.0033	0.0136	0.11	1	3	-9.54
	140	0.0021	0.0136	0.17	1	3	-9.54
N9029AH05	140	0.0021	0.0084	0.07	1	3	-9.54
	220	0.0014	0.0084	0.10	1	3	-9.54
N9029AH03	220	0.0014	0.0056	0.05	1	3	-9.54
	325	0.0009	0.0056	0.07	1	3	-9.54

5 Test Results

5.1. Conducted Emission

Standard:	FCC Part 15.255	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Transmit Mode		
Description:			

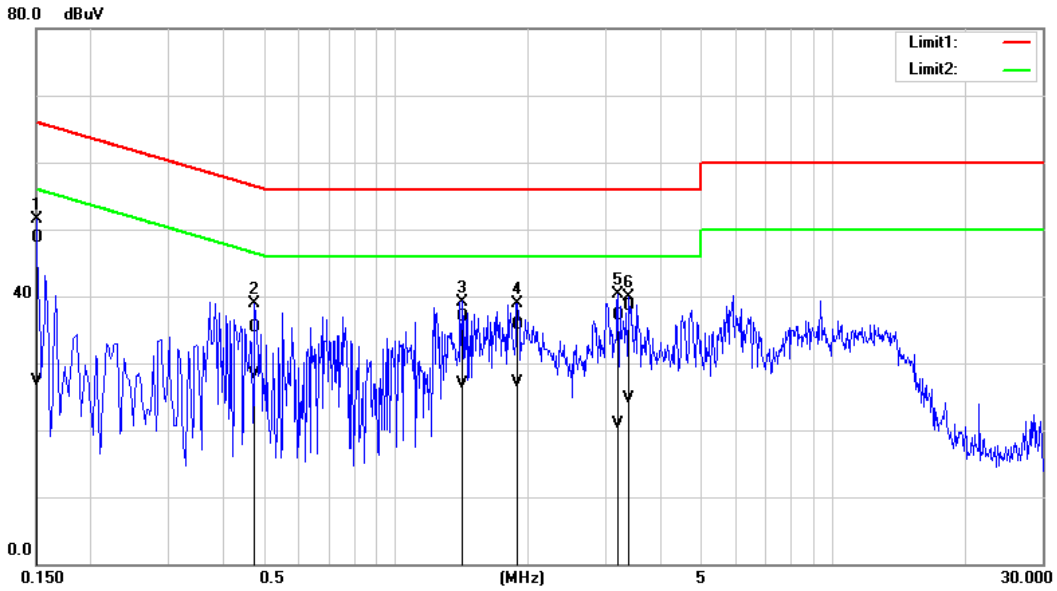


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.5820	19.51	5.91	9.58	29.09	15.49	56.00	46.00	-26.91	-30.51	Pass
2	0.6620	22.81	15.26	9.58	32.39	24.84	56.00	46.00	-23.61	-21.16	Pass
3	1.4140	28.39	16.93	9.61	38.00	26.54	56.00	46.00	-18.00	-19.46	Pass
4	1.6100	27.41	17.15	9.60	37.01	26.75	56.00	46.00	-18.99	-19.25	Pass
5	3.0420	25.14	12.12	9.62	34.76	21.74	56.00	46.00	-21.24	-24.26	Pass
6	3.3740	27.41	18.36	9.63	37.04	27.99	56.00	46.00	-18.96	-18.01	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Standard:	FCC Part 15.255	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Transmit Mode		
Description:			

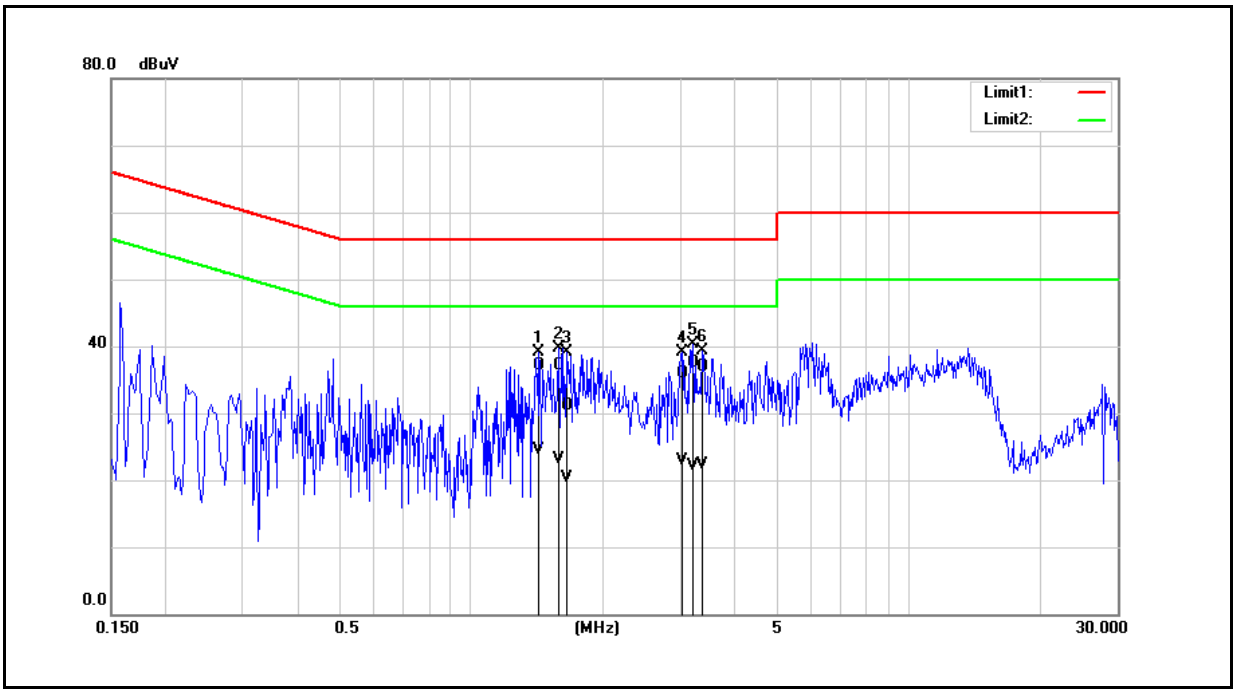


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	39.10	17.84	9.53	48.63	27.37	66.00	56.00	-17.37	-28.63	Pass
2	0.4740	25.73	18.71	9.61	35.34	28.32	56.44	46.44	-21.10	-18.12	Pass
3	1.4180	27.29	17.37	9.63	36.92	27.00	56.00	46.00	-19.08	-19.00	Pass
4	1.8900	26.17	17.57	9.63	35.80	27.20	56.00	46.00	-20.20	-18.80	Pass
5	3.2220	27.40	11.21	9.65	37.05	20.86	56.00	46.00	-18.95	-25.14	Pass
6	3.4140	28.83	15.14	9.65	38.48	24.79	56.00	46.00	-17.52	-21.21	Pass

Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Standard:	FCC Part 15.255	Line:	L1
Test item:	Conducted Emission	Power:	AC 240 V/60 Hz
Mode:	Transmit Mode		
Description:			

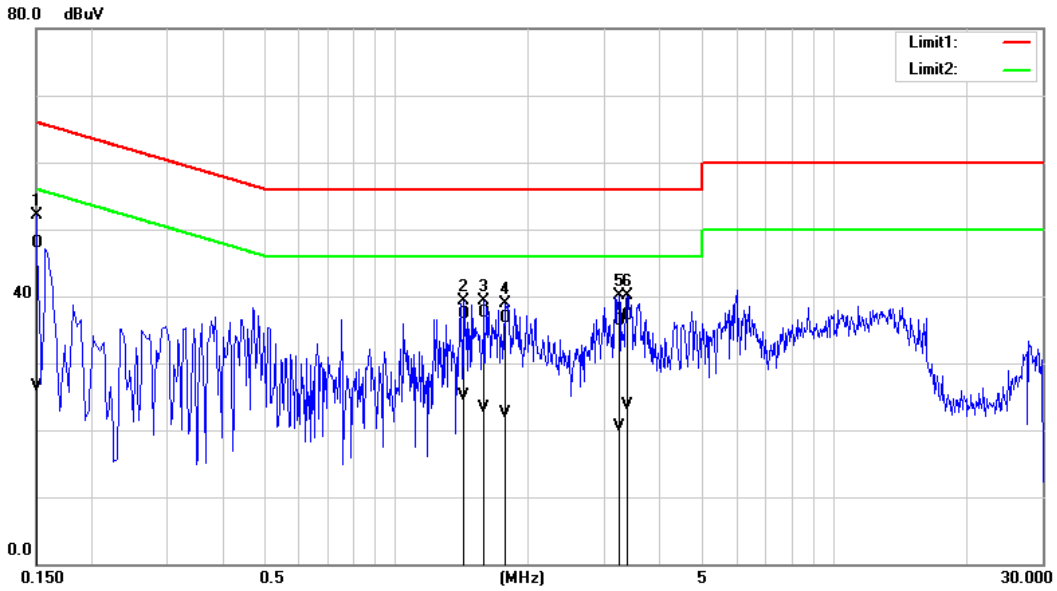


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	1.4220	27.53	14.96	9.60	37.13	24.56	56.00	46.00	-18.87	-21.44	Pass
2	1.5900	27.52	13.45	9.60	37.12	23.05	56.00	46.00	-18.88	-22.95	Pass
3	1.6500	21.41	10.69	9.60	31.01	20.29	56.00	46.00	-24.99	-25.71	Pass
4	3.0340	26.30	13.35	9.62	35.92	22.97	56.00	46.00	-20.08	-23.03	Pass
5	3.2140	27.88	12.53	9.63	37.51	22.16	56.00	46.00	-18.49	-23.84	Pass
6	3.3660	27.33	12.63	9.63	36.96	22.26	56.00	46.00	-19.04	-23.74	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Standard:	FCC Part 15.255	Line:	N
Test item:	Conducted Emission	Power:	AC 240 V/60 Hz
Mode:	Transmit Mode		
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	38.44	16.98	9.53	47.97	26.51	66.00	56.00	-18.03	-29.49	Pass
2	1.4220	27.71	15.46	9.63	37.34	25.09	56.00	46.00	-18.66	-20.91	Pass
3	1.5900	27.90	13.57	9.64	37.54	23.21	56.00	46.00	-18.46	-22.79	Pass
4	1.7780	27.07	12.79	9.64	36.71	22.43	56.00	46.00	-19.29	-23.57	Pass
5	3.2260	26.60	10.89	9.65	36.25	20.54	56.00	46.00	-19.75	-25.46	Pass
6	3.3700	27.45	14.10	9.65	37.10	23.75	56.00	46.00	-18.90	-22.25	Pass

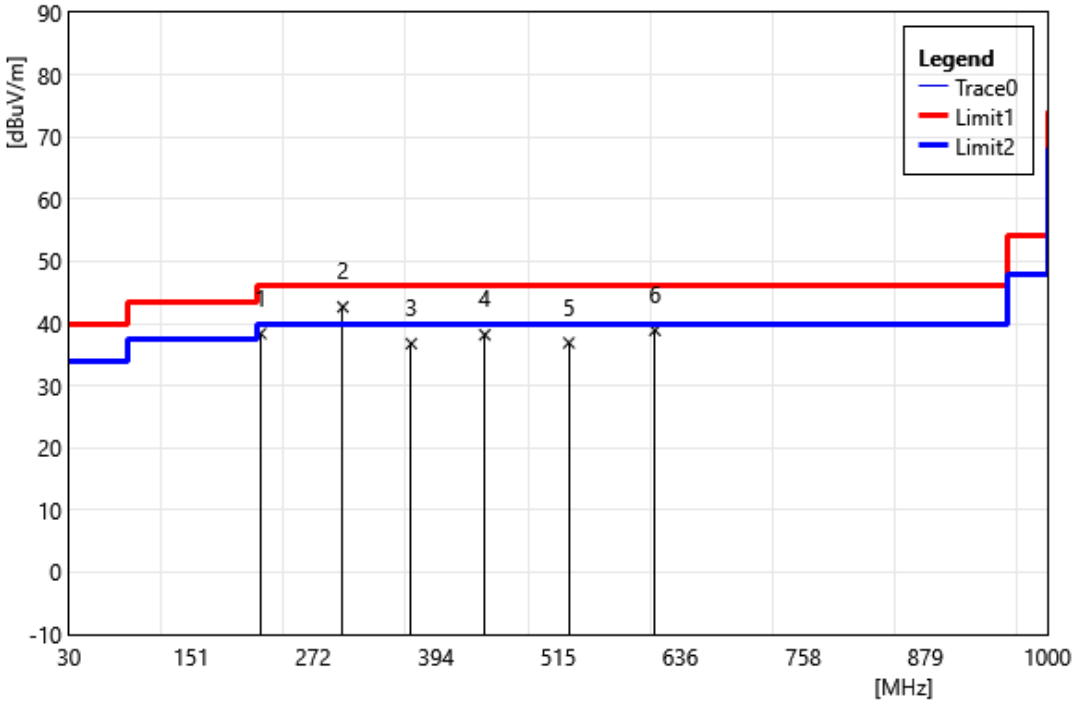
Note:1.Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2.Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

5.2. Radiated Emission Test Results

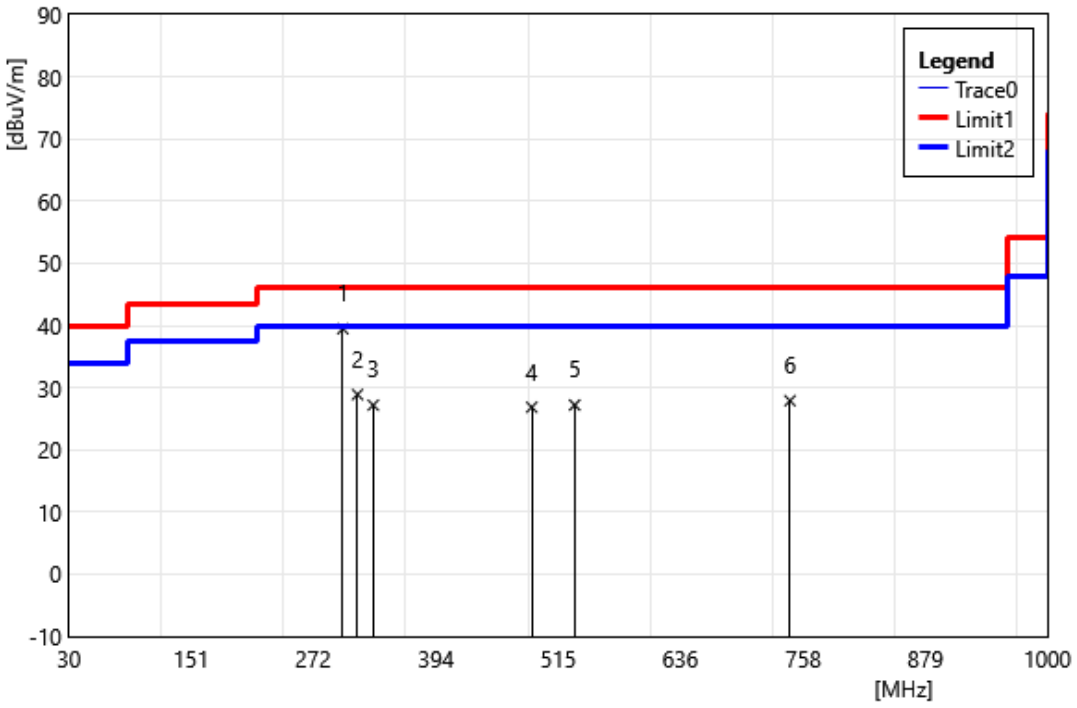
Radiated Emissions (below 1 GHz)

Test Site:	966C Chamber	Standard:	Part 15C
Test Mode:	Transmit Mode		
Polarization:	Vertical		
Remark:			



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	220.12	46.39	-8.01	38.38	46.00	-7.62	QP
2	301.60	48.32	-5.65	42.67	46.00	-3.33	QP
3	369.50	40.75	-3.98	36.77	46.00	-9.23	QP
4	442.25	40.52	-2.33	38.19	46.00	-7.81	QP
5	525.67	37.82	-0.93	36.89	46.00	-9.11	QP
6	611.03	38.43	0.48	38.91	46.00	-7.09	QP

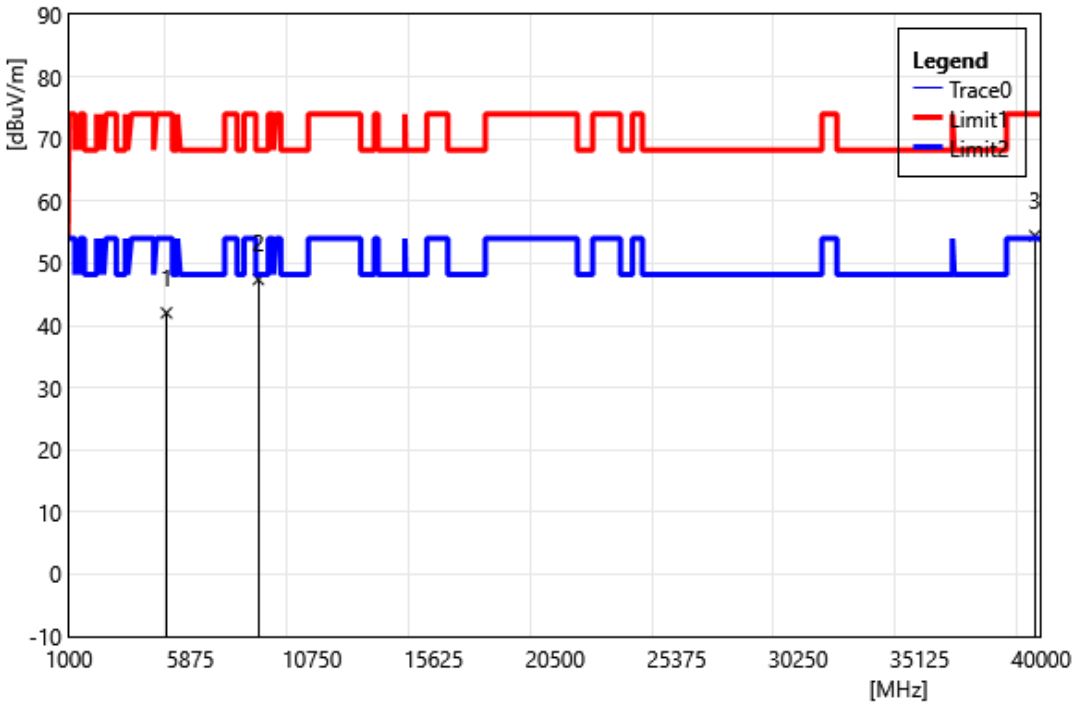
Test Site:	966C Chamber	Standard:	Part 15C
Test Mode:	Transmit Mode		
Polarization:	Horizontal		
Remark:			



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	301.60	45.13	-5.65	39.48	46.00	-6.52	QP
2	316.15	34.14	-5.25	28.89	46.00	-17.11	QP
3	331.67	32.03	-4.83	27.20	46.00	-18.80	QP
4	488.81	28.77	-1.91	26.86	46.00	-19.14	QP
5	531.49	28.00	-0.79	27.21	46.00	-18.79	QP
6	744.89	24.32	3.59	27.91	46.00	-18.09	QP

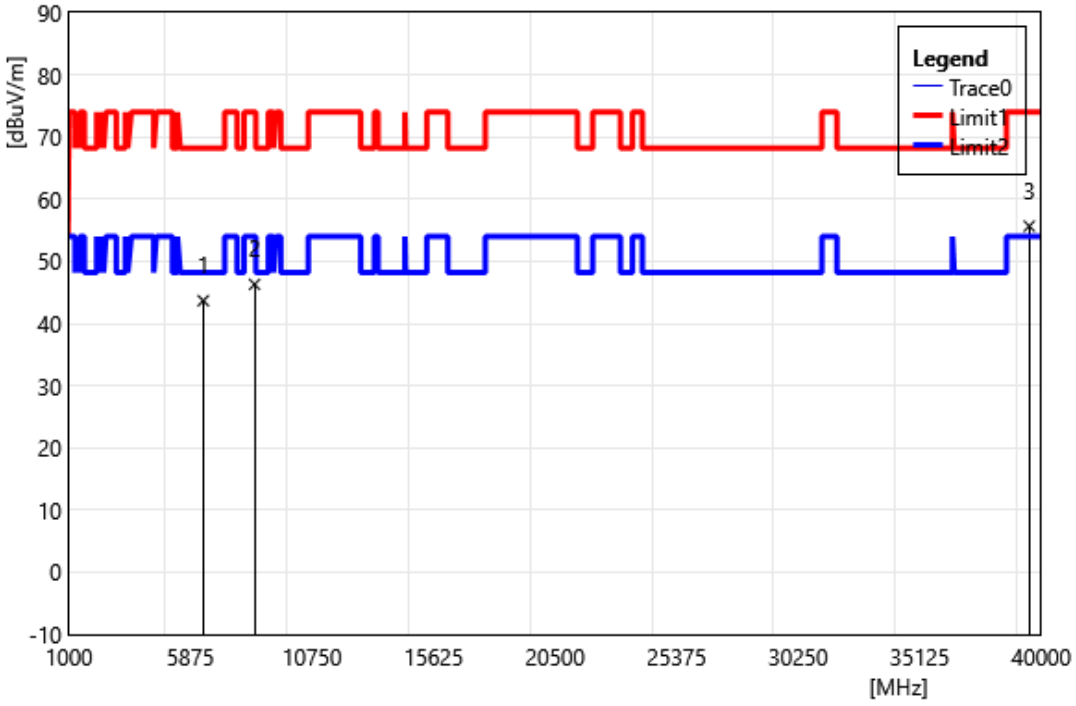
Radiated Emissions (Above 1 GHz)

Test Site:	966C Chamber	Standard:	Part 15E
Test Mode:	SRD_60-64GHz		
Polarization:	Vertical		
Remark:			



ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	4910.00	40.12	1.91	42.03	74.00	-31.97	PEAK
2	8599.00	38.52	8.89	47.41	68.20	-20.79	PEAK
3	39736.00	35.32	19.12	54.44	74.00	-19.57	PEAK

Test Site:	966C Chamber	Standard:	Part 15E
Test Mode:	SRD_60-64GHz		
Polarization:	Horizontal		
Remark:			



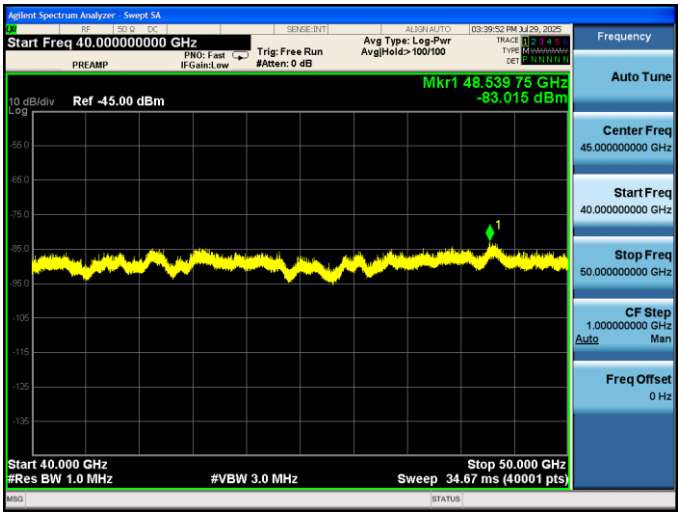
ID	Frequency MHz	Reading dBuV	Correct Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
1	6389.00	39.00	4.67	43.67	68.20	-24.53	PEAK
2	8446.00	37.98	8.32	46.30	74.00	-27.70	PEAK
3	39516.00	36.59	19.06	55.65	74.00	-18.35	PEAK

5.3. Power density Test Results

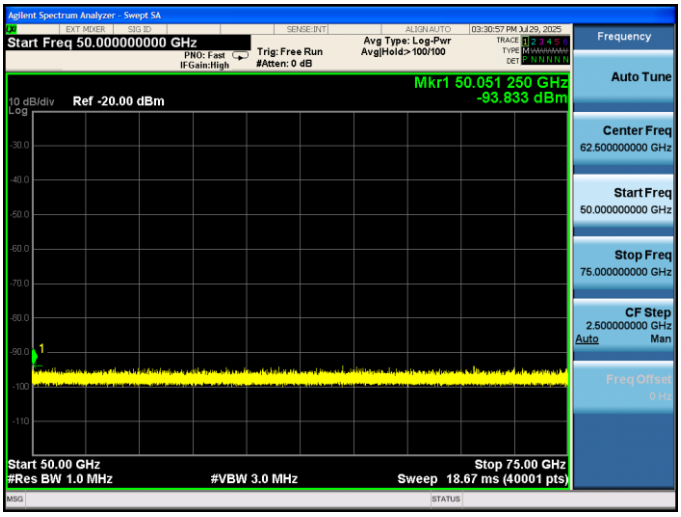
SRD_60-64GHz								
Frequency (GHz)	Reading (dBm)	Distance Factor = 20*log(1m/3m) (dB)	Ant. Pol.	AF (dB/m)	CL+ML (dB)	Result (dBm)	Power Density (pW/cm²)	Limit ((pW/cm²))
48.627	-84.271	-9.54	H	41.20	6.12	-46.49	0.0198	90
48.539	-83.015	-9.54	V	41.20	6.12	-45.24	0.0265	
50.051	-93.833	-9.54	H	44.00	13.63	-45.75	0.0236	
54.958	-93.48	-9.54	V	44.30	13.08	-45.64	0.0241	
88.828	-94.495	-9.54	H	46.80	13.89	-43.35	0.0409	
87.670	-93.931	-9.54	V	46.90	14.98	-41.59	0.0613	
133.840	-94.299	-9.54	H	50.40	14.40	-39.04	0.1103	
117.328	-94.132	-9.54	V	50.00	12.37	-41.30	0.0655	
147.512	-93.219	-9.54	H	53.00	14.37	-35.39	0.2555	
158.774	-93.429	-9.54	V	53.20	14.16	-35.61	0.2429	

Standard:	Part 15.255	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	SRD_60-64GHz		
Remark:	40-50 G		

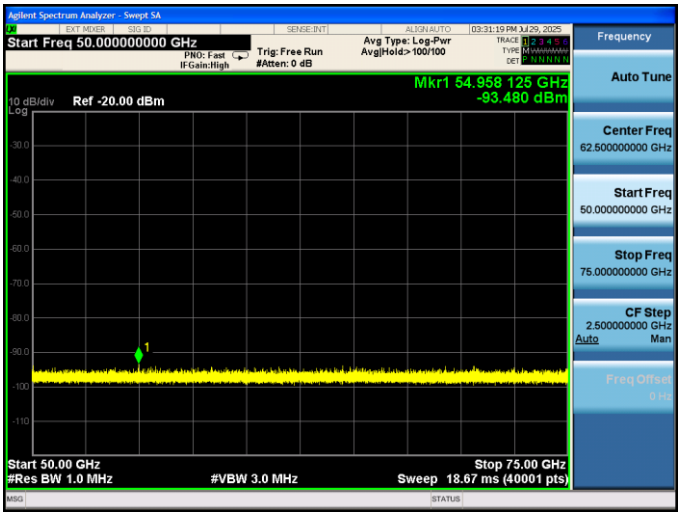
Standard:	Part 15.255	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	SRD_60-64GHz		
Remark:	40-50 G		



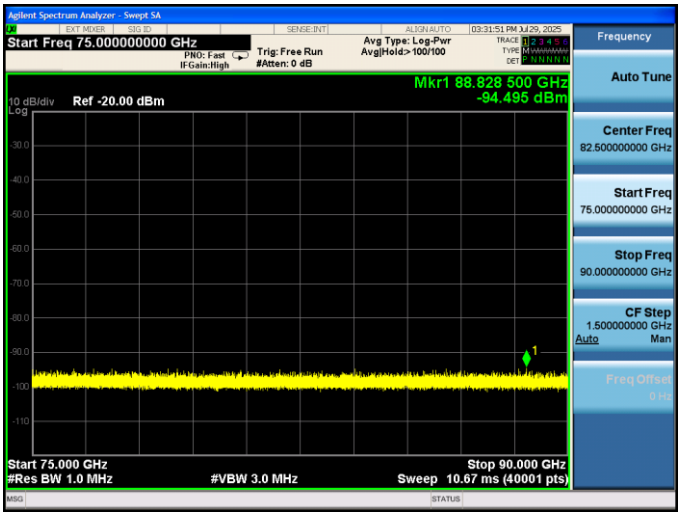
Standard:	Part 15.255	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	SRD_60-64GHz		
Remark:	50-75 G		



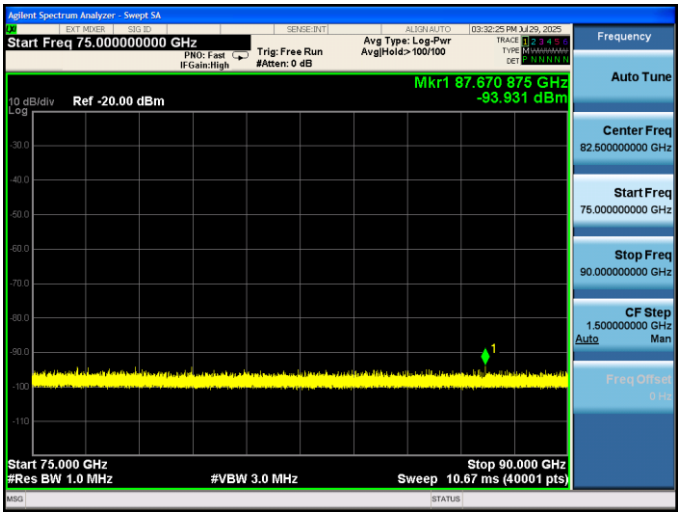
Standard:	Part 15.255	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	SRD_60-64GHz		
Remark:	50-75 G		



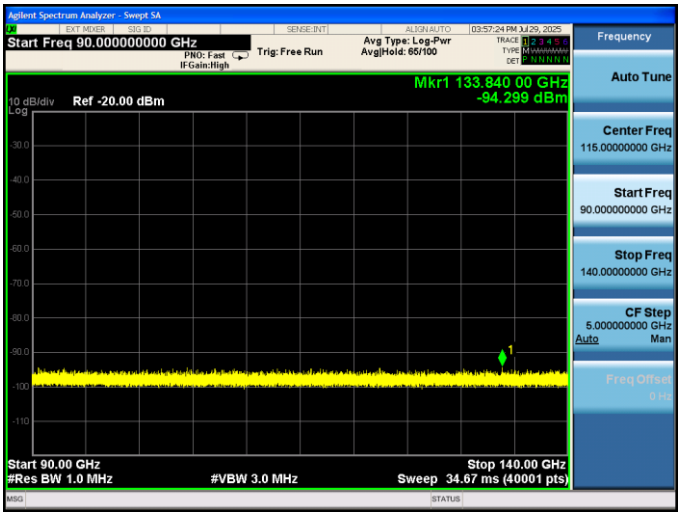
Standard:	Part 15.255	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	SRD_60-64GHz		
Remark:	75-90 G		



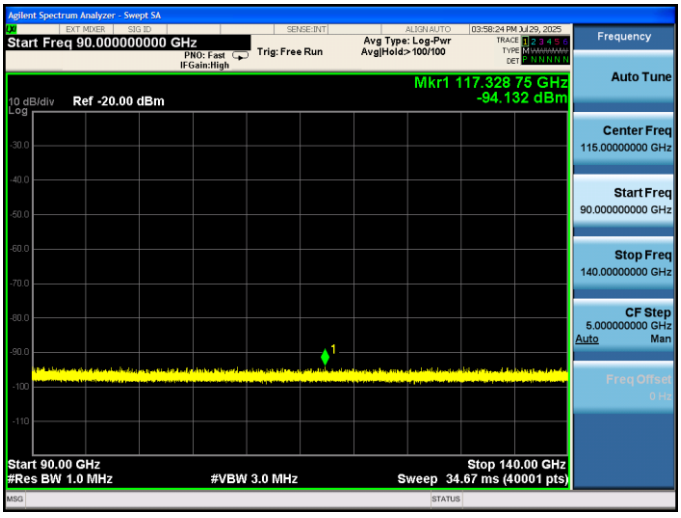
Standard:	Part 15.255	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	SRD_60-64GHz		
Remark:	75-90 G		



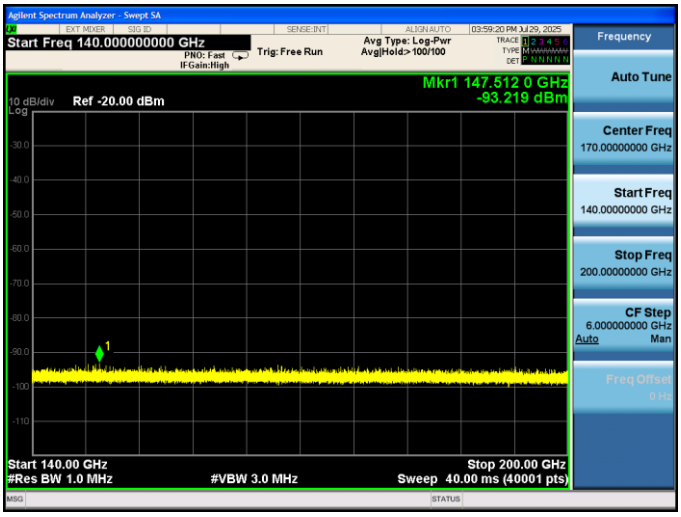
Standard:	Part 15.255	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	SRD_60-64GHz		
Remark:	90-140 G		



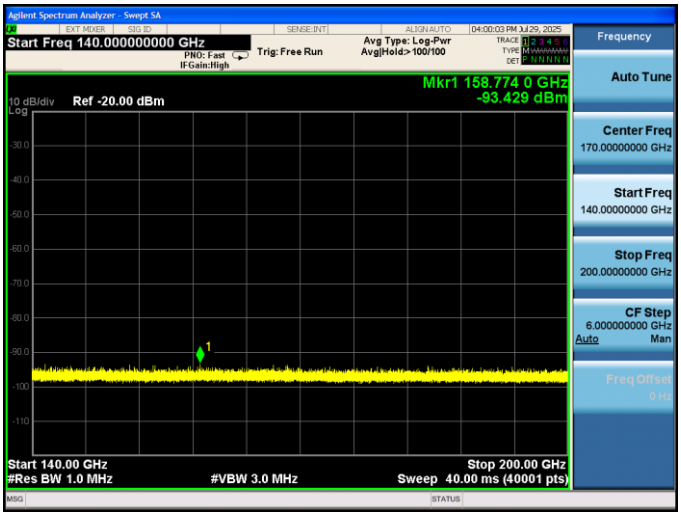
Standard:	Part 15.255	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	SRD_60-64GHz		
Remark:	90-140 G		



Standard:	Part 15.255	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	SRD_60-64GHz		
Remark:	140-200 G		



Standard:	Part 15.255	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	SRD_60-64GHz		
Remark:	140-200 G		



---END---