

TEST REPORT

Application No.: FYCR2607000329AT

Applicant: Shenzhen Digitech Co., Ltd.

Address of Applicant: Room 707, Office Building 4, Chongwen Garden, No. 1 Tangling Road, Fuguang Community Taoyuan Sub-district, Nanshan District, Shenzhen China

Manufacturer: Shenzhen Digitech Co., Ltd.

Address of Manufacturer: Room 707, Office Building 4, Chongwen Garden, No. 1 Tangling Road, Fuguang Community Taoyuan Sub-district, Nanshan District, Shenzhen China

Factory: Shenzhen Digitech Co., Ltd.

Address of Factory: Room 707, Office Building 4, Chongwen Garden, No. 1 Tangling Road, Fuguang Community Taoyuan Sub-district, Nanshan District, Shenzhen China

Equipment Under Test (EUT):

EUT Name: Ebike Radar

Model No.: DR100, DR110, DR200, DR210, DR300, DR310, DR400, DR410 ♣

♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

FCC ID: 2BRL3-DR100

Standard(s) : 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2026-07-20

Date of Test: 2026-08-11 to 2026-09-04

Date of Issue: 2026-09-04

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-09-04		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement			
Item	FCC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	N/A	Pass

Radio Spectrum Matter Part			
Item	FCC Requirement	Method	Result
20dB Emission bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2020) Section 6.9	Pass
Filed strength of fundamental	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2020) Section 6.5&6.6	Pass
Radiation Spurious Emission below 1GHz	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2020) Section 6.4&6.5	Pass
Radiation Spurious Emission above 1GHz	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2020) Section 6.6	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2020) Section 6.10	Pass

Declaration of EUT Family Grouping:

Model No.: DR100, DR110, DR200, DR210, DR300, DR310, DR400, DR410

Only the model DR100 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on regional sales with distinct product naming.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	9~65V
Test Voltage:	12V
Operation Frequency:	24GHz-24.25GHz
Modulation Type:	FMCW
Antenna Type:	PCB Antenna
Antenna Gain:	11.3dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	REF. No.SEA18C00E
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A01
Test board	Mercury	MCS-73 LV	---

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
20dB Bandwidth	$\pm 3\%$
Carrier Frequencies Separation	$\pm 7.25 \times 10^{-8}$
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2026-02-02	2027-02-01
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2026-07-04	2027-07-03

Field Strength of the Fundamental					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2026-02-02	2027-02-01
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2026-07-04	2027-07-03

Radiated Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2026-04-19	2029-04-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2026-03-31	2027-03-30
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2026-07-04	2027-07-03



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Radiated Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2026-02-02	2027-02-01
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2026-04-03	2029-04-02
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Broad-Band Horn Antenna(15GHz-40GHz)	SCHWARZBECK	BBHA 9170	SEM003-15	2025-07-29	2027-07-28
Coaxial Cable	SGS	N/A	SEM026-01	2026-07-04	2027-07-03
Waveguide(40-60GHz)	REBES	SWG-19025-FB	06303-01	2025-02-18	2028-02-17
Waveguide(50-75GHz)	REBES	SWG-15025-FB	01525-09	2025-02-18	2028-02-17
Waveguide(75-110GHz)	REBES	SWG-10025-FB	01509-01	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(40-60GHz)	REBES	STH-19SF-S1	06937-01	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(50-75GHz)	KEYSIGHT	M1970V	MY51390966	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(75-110GHz)	KEYSIGHT	M1970W	MY51430883	2025-02-18	2028-02-17



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2026-04-01	2027-03-31
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2026-02-03	2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2026-07-04	2027-07-03
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

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, 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 11.3dBi.

Antenna location: Refer to internal photos



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6.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215

Test Method: ANSI C63.10 (2020) Section 6.9

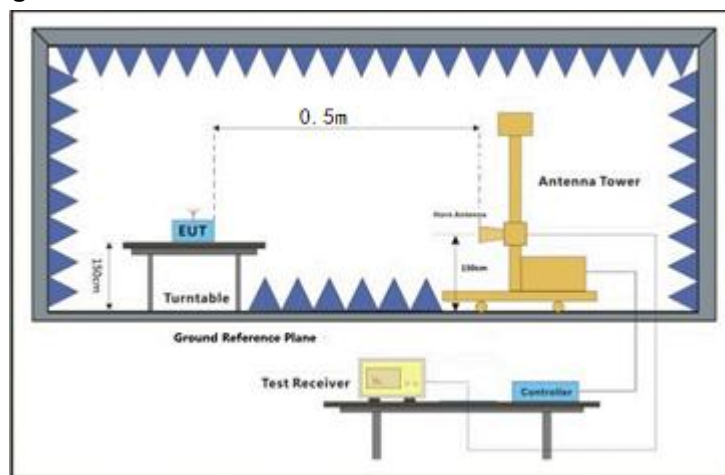
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 49.7 % RH Atmospheric Pressure: 1020 mbar

Test Mode: 00: TX mode _ Keep the EUT in continuously transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Procedure and Data

- 1) Place the EUT on the table and set it in the transmitting mode
- 2) SA set RBW=1%~5% OBW, VBW=3RBW and Detector=Peak
- 3) Measure and record the result of 20dB bandwidth

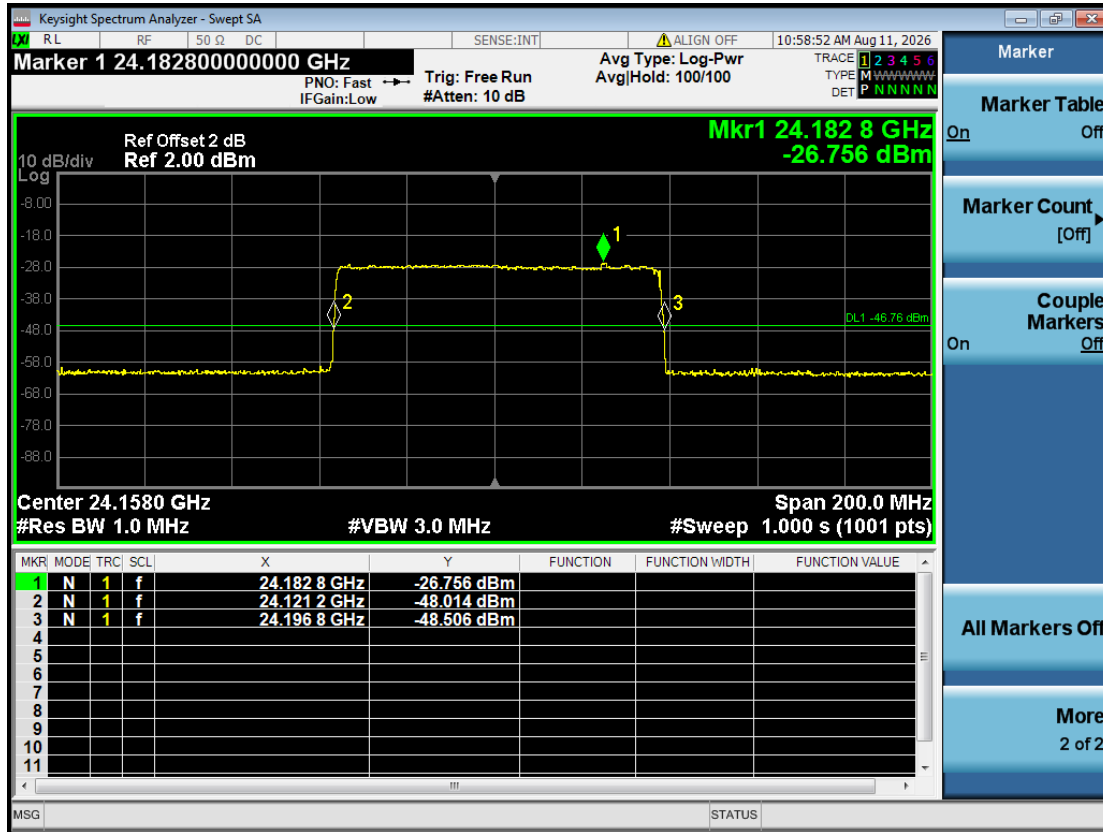
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Test Data:



Low Frequency (GHz)	Limit (GHz)	High Frequency (GHz)	Limit (GHz)	20dB Bandwidth (MHz)	Result
24.1212	≥24.00	24.1968	≤24.25	75.6	Pass



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6.3 Filed Strength of Fundamental

Test Requirement: 47 CFR Part 15, Subpart C 15.249(a)
 Test Method: ANSI C63.10 (2020) Section 6.5&6.6
 Measurement: 1m
 Distance:
 Test Engineer: Wade Li

Limit:

- (1) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

* Field strength limits are specified at a distance of 3 meters.

Fundamental Limit Conversion			
Average (mV/m) at 3M	Average (dBuV/m) at 3M	Average (dBuV/m) at 1M	Peak (dBuV/m) at 1M
250	107.9588	117.50	137.50

* (Limit = 107.9588 + 20LOG(3/1) = 117.50 dBuV/m)

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 49.9 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	07	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.



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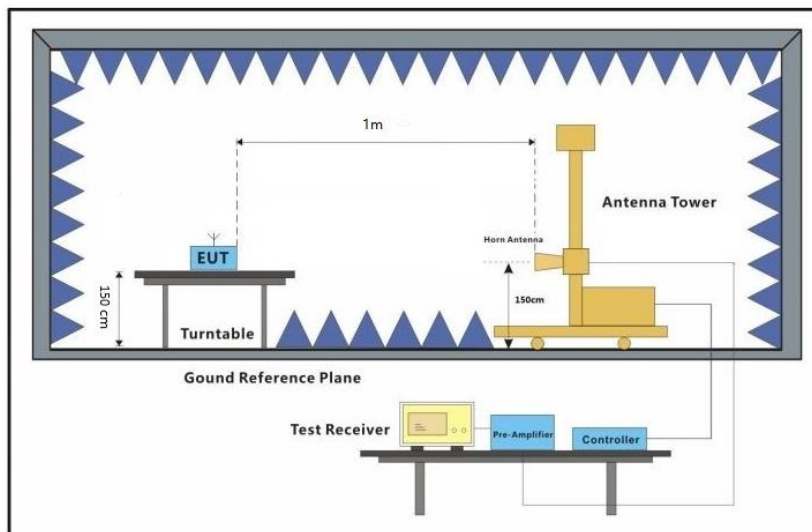
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6.3.3 Test Setup Diagram



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6.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For 1-18GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For 18-40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 0.5 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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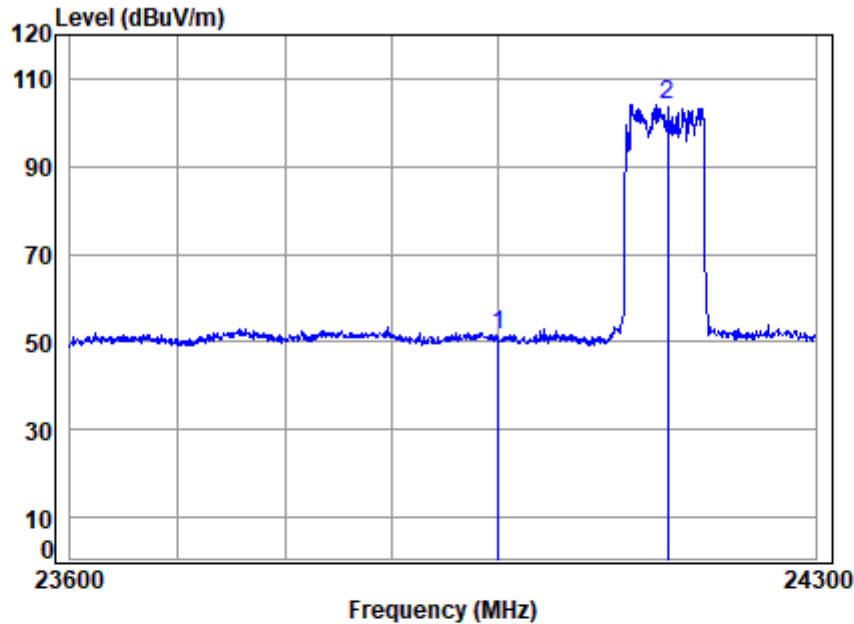
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Test Data for Filed Strength of Fundamental Peak Horizontal



Condition: 3m HORIZONTAL

Job No : 00329AT

Mode : 24G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	24000.000	9.25	39.30	45.10	48.17	51.62	-----	-----	Peak	0.00
2	pp24159.770	9.50	39.30	45.02	100.34	104.12	-----	-----	Peak	0.00



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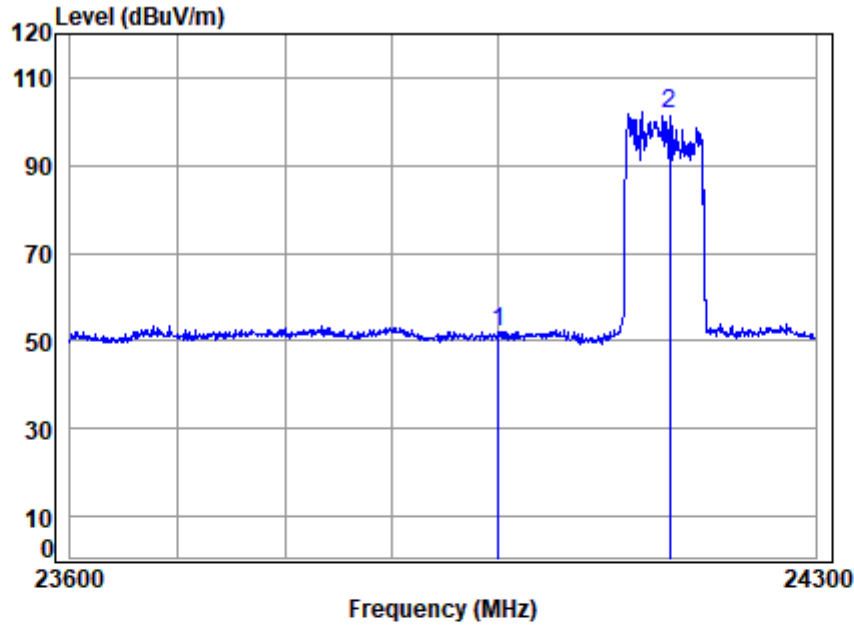
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Peak Vertical



Condition: 3m VERTICAL

Job No : 00329AT

Mode : 24G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	24000.000	9.25	39.30	45.10	48.34	51.79	-----	-----	Peak	0.00
2	pp24161.180	9.51	39.30	45.02	98.18	101.97	-----	-----	Peak	0.00



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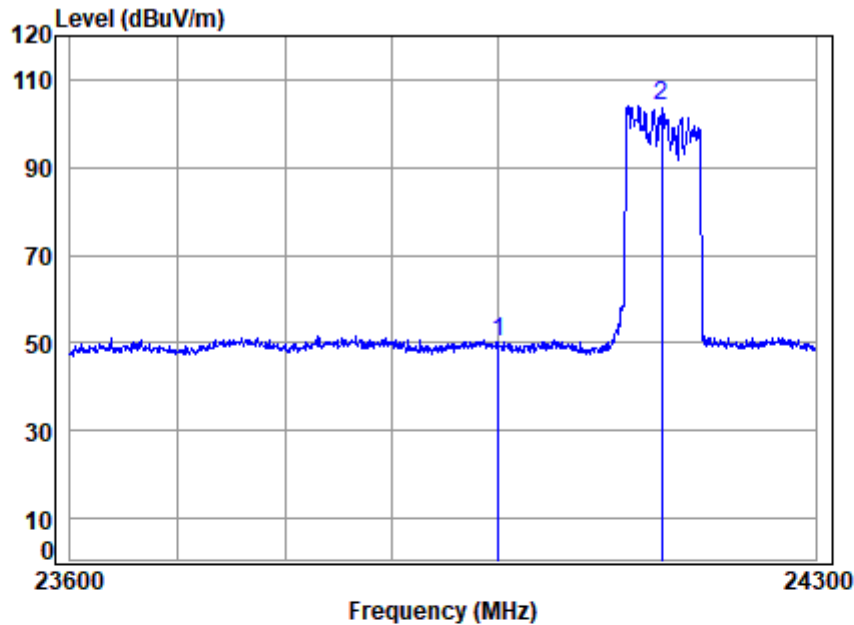
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Average Horizontal



Condition: 3m HORIZONTAL

Job No : 00329AT

Mode : 24G Band edge

		Cable	Ant	Preamp	Read	Limit	Over		Aux
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	24000.000	9.25	39.30	45.10	46.64	50.09	-----	Average	0.00
2	pp24153.420	9.49	39.30	45.02	100.16	103.93	-----	Average	0.00



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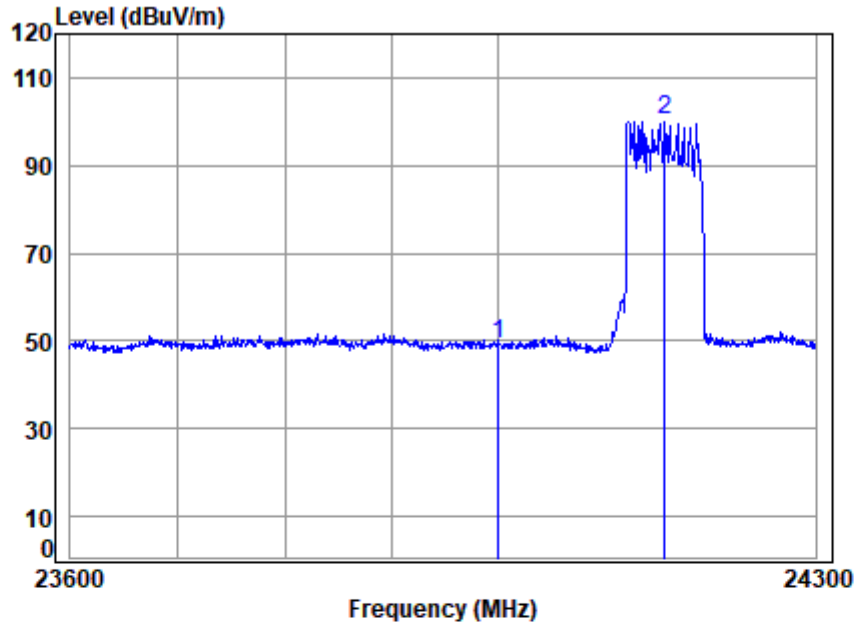
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Average Vertical



Condition: 3m VERTICAL

Job No : 00329AT

Mode : 24G Band edge

		Cable	Ant	Preamp	Read	Limit	Over		Aux
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	24000.000	9.25	39.30	45.10	45.79	49.24	-----	Average	0.00
2	pp24156.950	9.50	39.30	45.02	96.45	100.23	-----	Average	0.00



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Frequency (GHz)	Distance (m)	Polarity	Measured Filed strength (dBuV/m)	Desensitization Factor (dB)	Final Filed strength (dBuV/m)	Limit (dBuV/m)	Result	Remark
24.16	1	Horizontal	104.12	0	104.12	137.50	Pass	Peak
24.16	1	Horizontal	103.97	0	103.97	117.50	Pass	AVG
24.16	1	Vertical	101.97	0	101.97	137.50	Pass	Peak
24.16	1	Vertical	100.23	0	100.23	117.50	Pass	AVG

Note: Final Field strength [dBuV/m]=Measured Field strength [dBuV] +Desensitization Factor[dB]

The FMCW Desensitization factor

FMCW Width(MHz)	T _{chirp} (us)	RBW(MHz)	Desensitization Factor(lin)	Desensitization Factor(dB)
71.672	6000	1	1	0

FMCW desensitization factor =-20*Log(α)=-20*Log(1)=0 dB

$$\alpha = \frac{1}{\sqrt{1 + \left(\frac{2 \ln(2)}{\pi} \right)^2 \left(\frac{BW_{\text{Chirp}}}{T_{\text{Chirp}} B^2} \right)^2}}$$

where

α is the reduction in amplitude
 BW_{Chirp} is the FMCW Chirp Bandwidth
 T_{Chirp} is the FMCW Chirp Time
 B is the 3 dB IF Bandwidth = RBW



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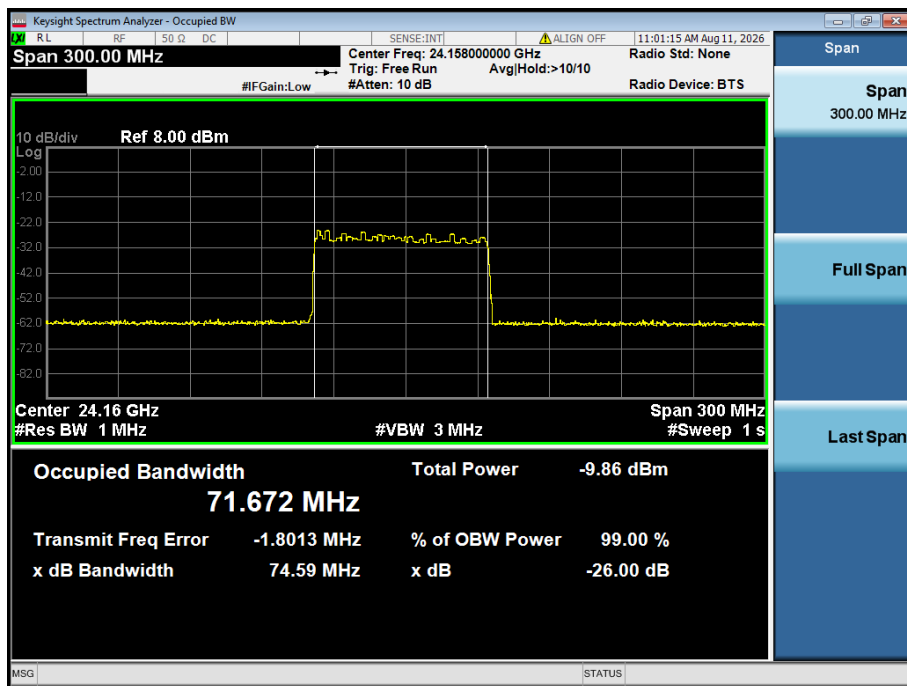
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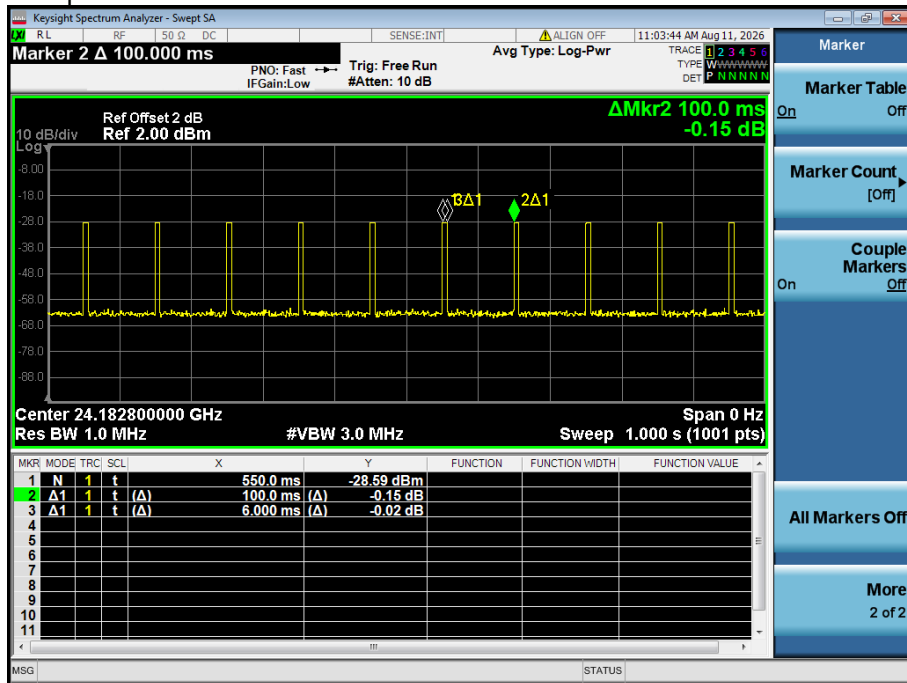
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99% BW



Tchirp



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6.4 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2020) Section 6.5&6.6
 Measurement Distance: 3m
 Test Engineer: Mason Wu

Limit:

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
960-1000	500	3

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 45.6 % RH Atmospheric Pressure: 1020 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in transmitting with modulation mode.
Final test	07	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.



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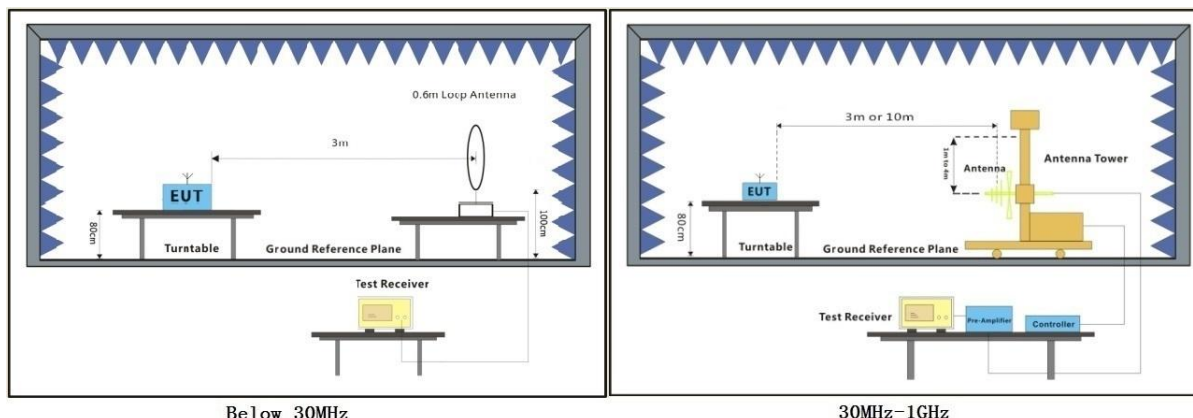
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6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only below points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



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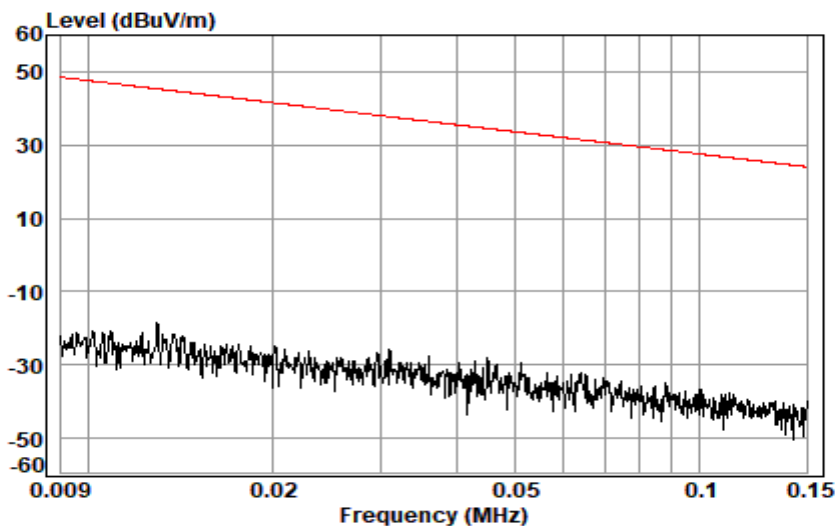
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For 9KHz-30MHz

Test Mode: 01



Site : chamber
Condition: 3m
Job No. : 00329AT
Test Mode: 01
 : coaxial



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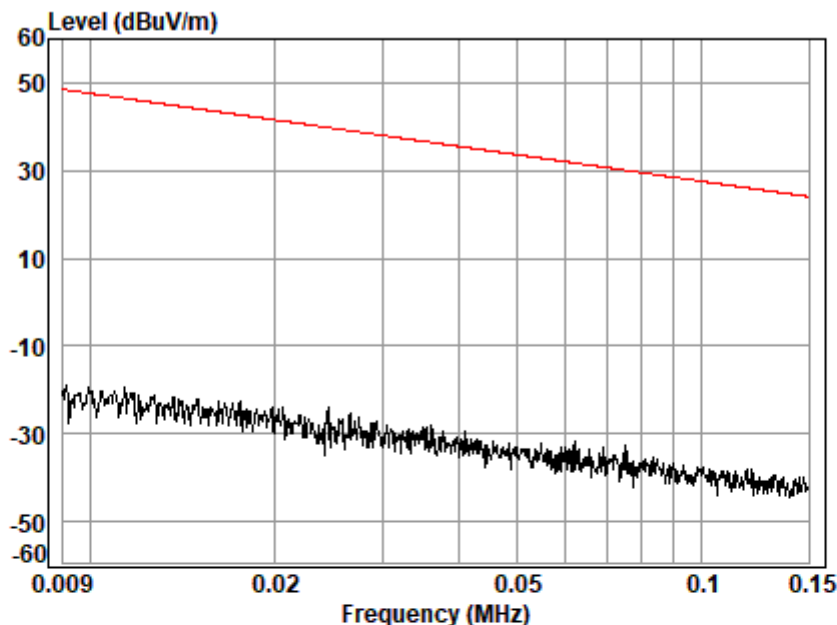
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Test Mode: 01



Site : chamber
Condition: 3m
Job No. : 00329AT
Test Mode: 01
: coplanar



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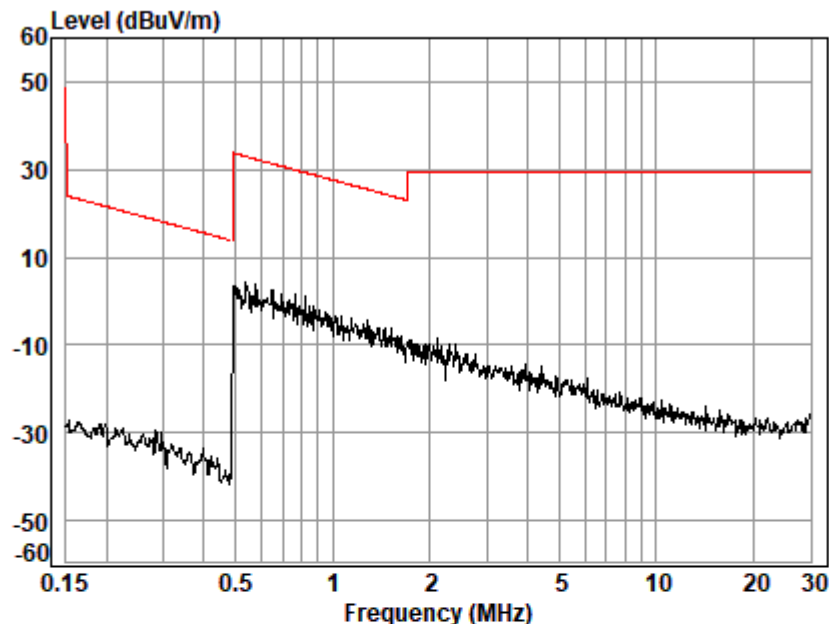
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Test Mode: 01



Site : chamber
Condition: 3m
Job No. : 00329AT
Test Mode: 01
: coaxial



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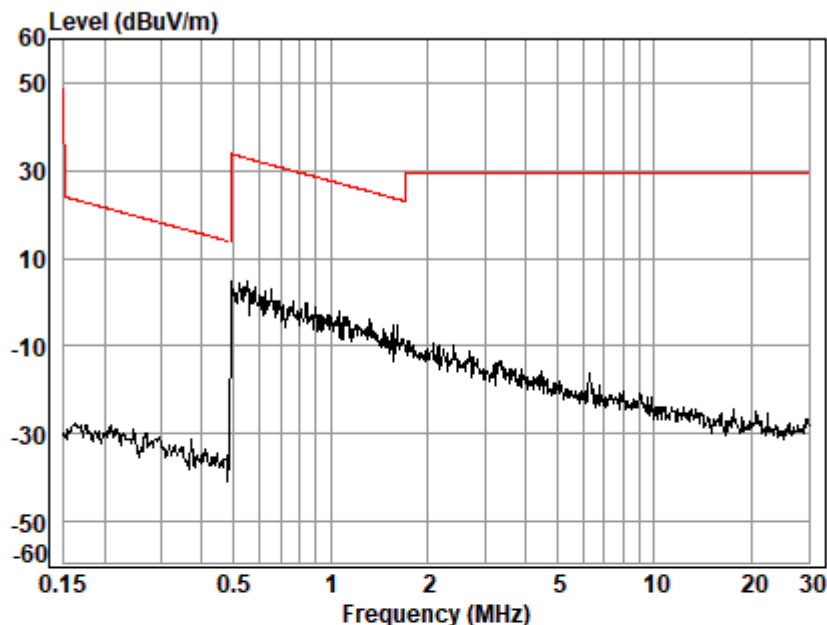
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Test Mode: 01



Site : chamber
Condition: 3m
Job No. : 00329AT
Test Mode: 01
: coplanar



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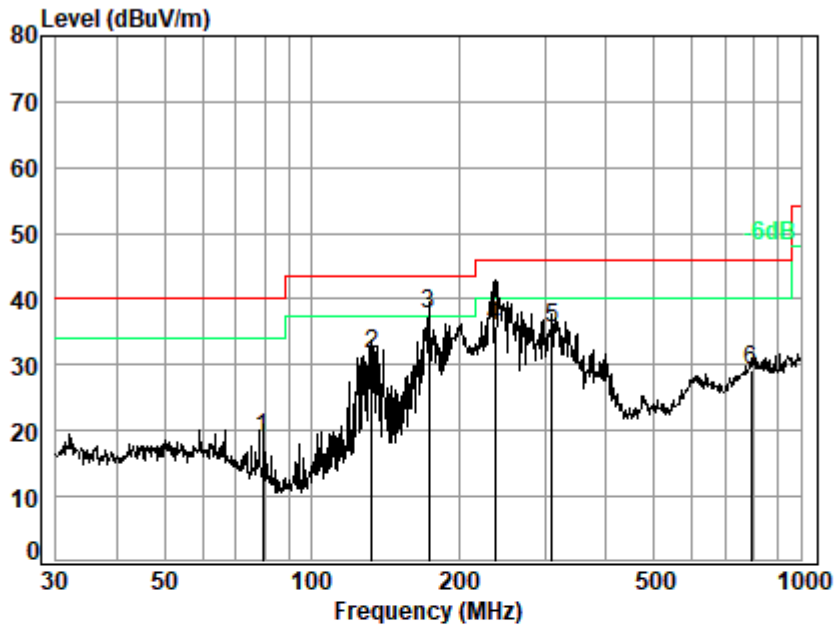
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For 30MHz - 1GHz

Test Mode: 01 Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00329AT
Mode : 01

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	79.52	0.69	13.27	26.10	31.06	18.92	40.00	-21.08	QP
2	132.69	1.39	16.23	25.72	39.84	31.74	43.50	-11.76	QP
3	173.81	0.78	16.46	25.55	45.96	37.65	43.50	-5.85	QP
4	237.48	0.52	15.38	25.35	45.48	36.03	46.00	-9.97	QP
5	310.00	0.64	17.77	25.29	42.46	35.58	46.00	-10.42	QP
6	793.40	3.31	26.83	26.50	25.44	29.08	46.00	-16.92	QP



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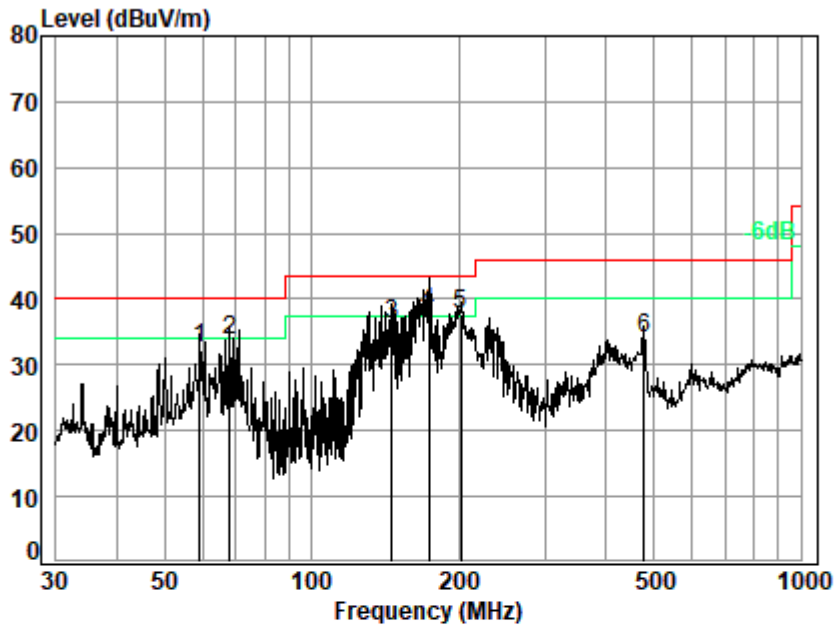
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Test Mode: 01 Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00329AT
Mode : 01

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	59.03	0.70	17.37	26.10	40.64	32.61	40.00	-7.39	QP
2	67.91	0.69	16.14	26.10	42.98	33.71	40.00	-6.29	QP
3	145.86	1.33	17.28	25.66	43.25	36.20	43.50	-7.30	QP
4	173.81	0.78	16.46	25.55	46.20	37.89	43.50	-5.61	QP
5	202.10	1.24	13.87	25.45	47.92	37.58	43.50	-5.92	QP
6	478.85	1.25	21.39	26.48	37.87	34.03	46.00	-11.97	QP



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6.5 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2020) Section 6.6
 Measurement Distance: 1G-18GHz: 3m
 18G-40GHz: 1m
 Above 40G:0.1m
 Test Engineer: Logic Wang

Limit:

- (2) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

And

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

Harmonic Limit Conversion			
Average (uV/m) at 3M	Average (dBuV/m) at 3M	Average (dBuV/m) at 1M	Peak (dBuV/m) at 1M
2500	67.9588	77.5	97.5

*(Limit=67.9588+20LOG(3/1)=77.5 dBuV/m)



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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 (follow the table), whichever is the lesser attenuation.

Frequency	Field Strength microvolts/m at specific distance	
	Peak	AVG
18-40GHz	83.54dBuV/m@1m	63.54dBuV/m@1m
Above 40GHz	103.54dBuV/m@0.1m	83.54dBuV/m@0.1m

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1015 mbar

6.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	07	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.



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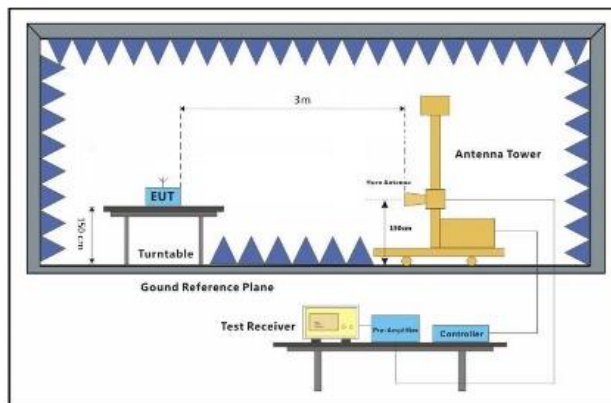
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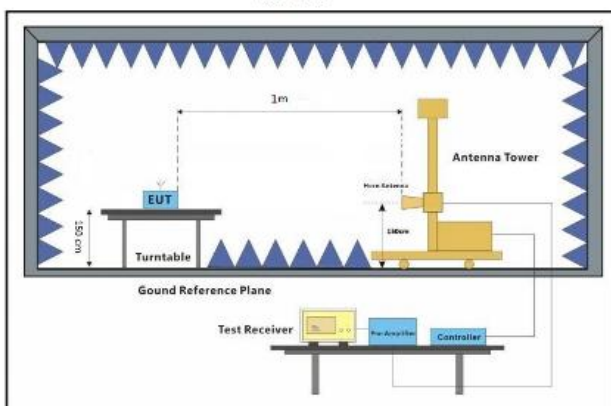
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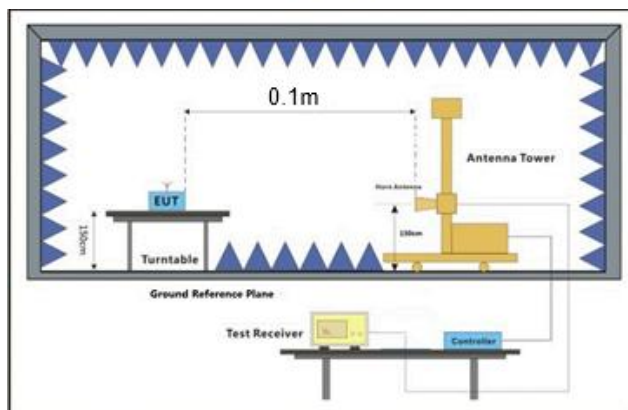
6.5.3 Test Setup Diagram



10Hz-18GHz



18GHz-40GHz



Above 40GHz



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6.5.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, 1m away from the interference-receiving antenna 18GHz-40GHz, and .0.1m away from the interference-receiving antenna above 40GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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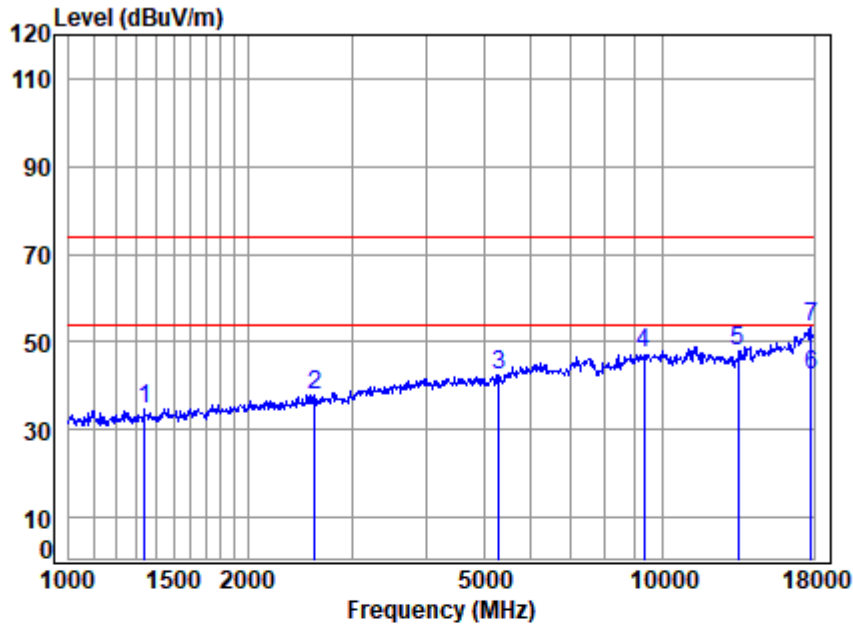
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For 1-18GHz Horizontal



Condition: 3m HORIZONTAL

Job No : 00329AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1339.006	4.13	25.08	53.33	58.61	34.49	74.00	-39.51	Peak	0.00
2	2595.613	7.13	27.92	53.11	56.09	38.03	74.00	-35.97	Peak	0.00
3	5300.200	8.49	32.70	53.23	54.49	42.45	74.00	-31.55	Peak	0.00
4	9312.588	11.63	38.88	53.96	50.93	47.48	74.00	-26.52	Peak	0.00
5	13442.810	12.02	40.06	54.01	49.90	47.97	74.00	-26.03	Peak	0.00
6	pp17793.090	14.47	40.19	51.54	39.12	42.24	54.00	-11.76	Average	0.00
7	pk17793.090	14.47	40.19	51.54	50.42	53.54	74.00	-20.46	Peak	0.00



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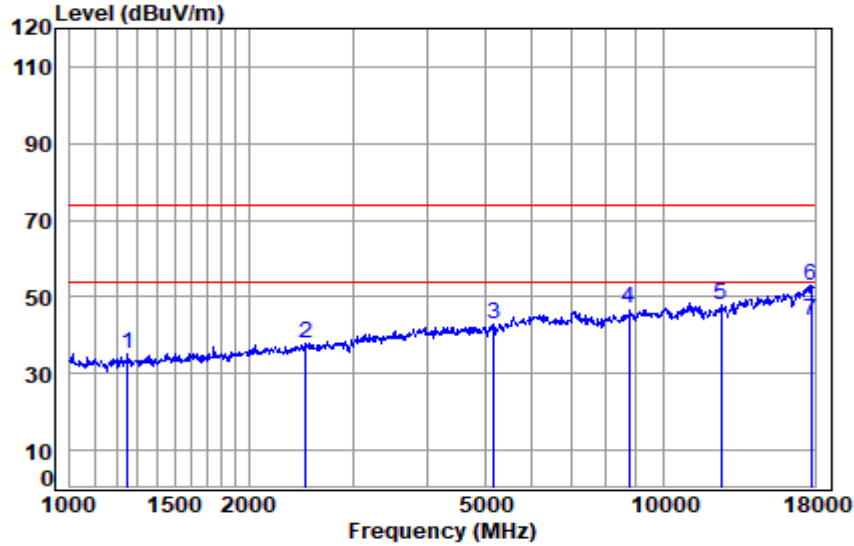
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For 1-18GHz Vertical



Condition: 3m VERTICAL

Job No : 00329AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1249.269	3.81	25.30	53.30	59.28	35.09	74.00	-38.91	Peak	0.00
2	2492.677	7.08	27.76	53.17	56.24	37.91	74.00	-36.09	Peak	0.00
3	5179.049	8.43	33.19	53.22	54.45	42.85	74.00	-31.15	Peak	0.00
4	8764.146	10.33	38.24	53.97	52.20	46.80	74.00	-27.20	Peak	0.00
5	12505.710	13.42	38.97	54.10	49.52	47.81	74.00	-26.19	Peak	0.00
6	pk17741.740	14.46	40.14	51.55	50.08	53.13	74.00	-20.87	Peak	0.00
7	pp17741.740	14.46	40.14	51.55	40.61	43.66	54.00	-10.34	Average	0.00



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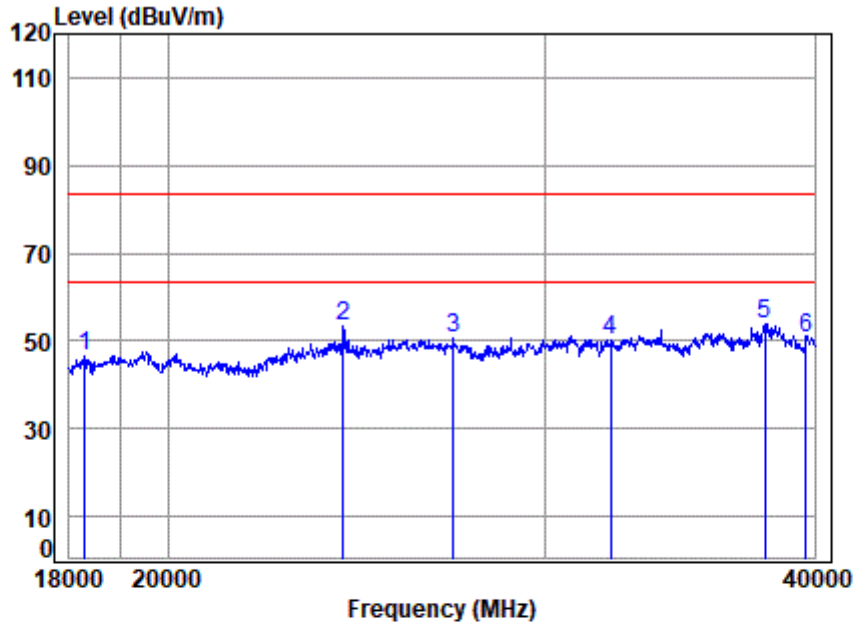
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For 18-40GHz Horizontal



Condition: 1m HORIZONTAL

Job No : 00329AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	18304.380	9.49	36.50	48.11	48.58	46.46	83.54	-37.08	Peak	0.00
2	24129.230	9.46	39.30	45.03	49.59	53.32	83.54	-30.22	Peak	0.00
3	27156.140	10.56	39.00	44.78	45.74	50.52	83.54	-33.02	Peak	0.00
4	32165.260	11.15	40.43	45.03	43.73	50.28	83.54	-33.26	Peak	0.00
5	pp37916.240	12.82	42.47	46.74	45.43	53.98	83.54	-29.56	Peak	0.00
6	39618.550	12.33	43.16	47.68	42.78	50.59	83.54	-32.95	Peak	0.00



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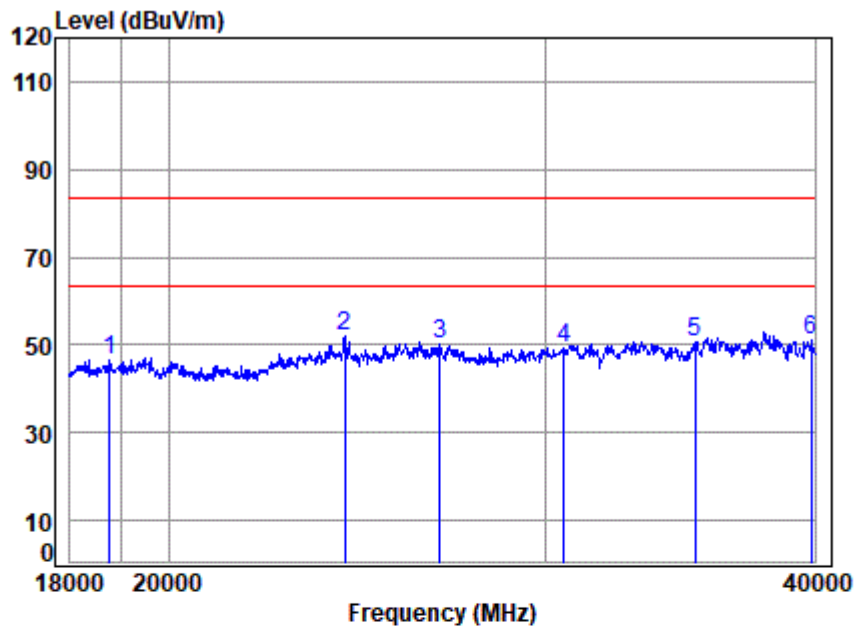
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For 18-40GHz Vertical



Condition: 1m VERTICAL

Job No : 00329AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	18778.130	9.03	36.98	47.97	48.67	46.71	83.54	-36.83	Peak	0.00
2	24167.800	9.52	39.30	45.01	48.07	51.88	83.54	-31.66	Peak	0.00
3	26768.610	10.31	39.46	44.72	45.33	50.38	83.54	-33.16	Peak	0.00
4	30562.760	10.79	40.25	44.83	43.21	49.42	83.54	-34.12	Peak	0.00
5	35174.440	11.80	42.27	47.23	43.79	50.63	83.54	-32.91	Peak	0.00
6	39840.620	12.34	43.07	47.81	43.58	51.18	83.54	-32.36	Peak	0.00



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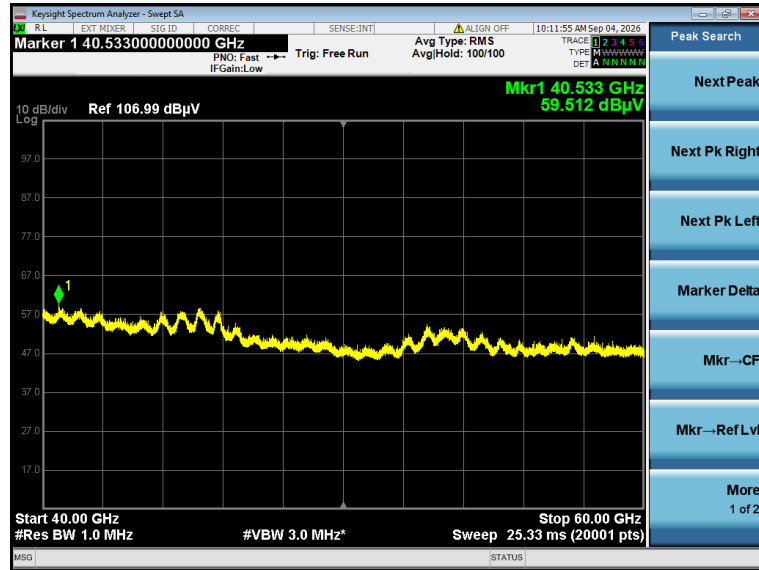
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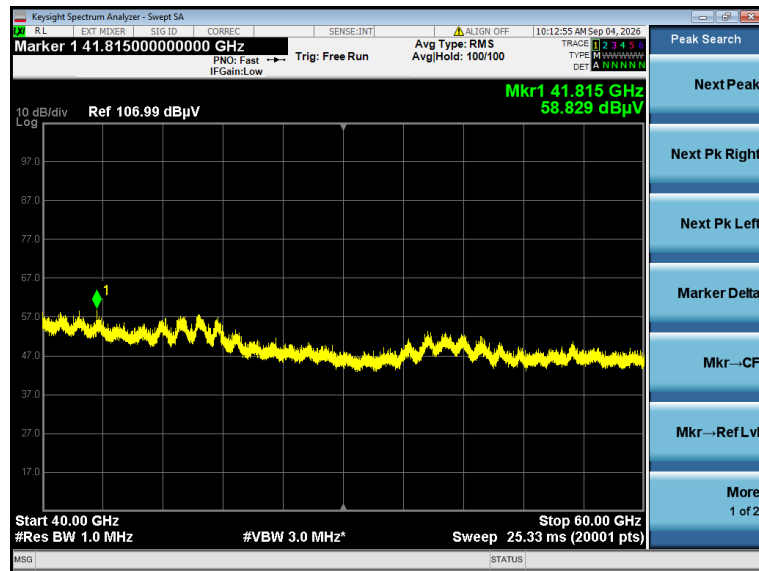
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40GHz-60GHz; Test Mode: 00; Polarity: Horizontal



40GHz-60GHz; Test Mode: 00; Polarity: Vertical



Frequency (GHz)	Distance (M)	AV Value (dBuv/m)	AV Limit (dBuv/m)	Polarization	Result
40.533	0.1	59.512	83.54	H	PASS
41.815	0.1	58.829	83.54	V	PASS



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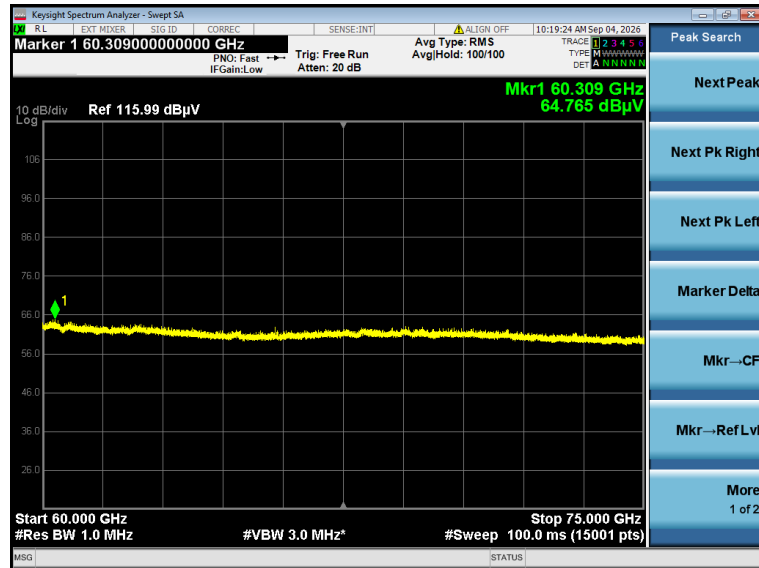
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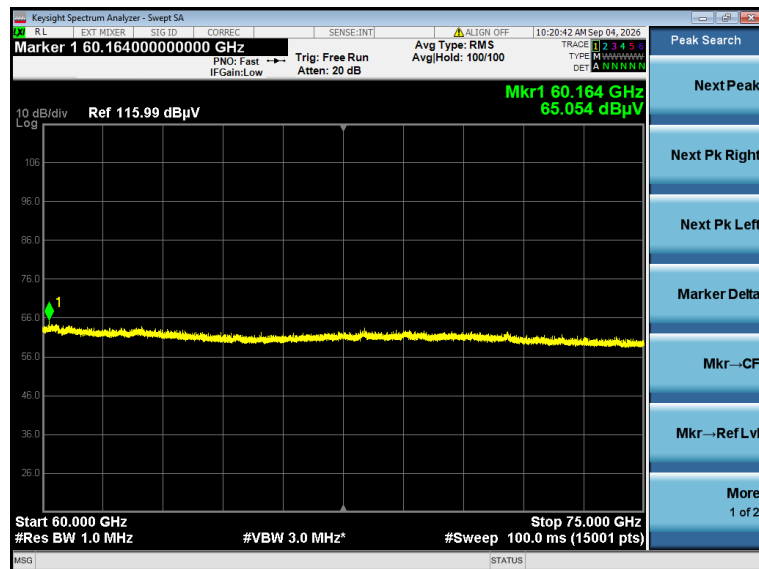
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60-75GHz Test Mode: 00; Polarity: Horizontal



60-75 GHz Test Mode: 00; Polarity: Vertical



Frequency (GHz)	Distance (M)	AV Value (dBuv/m)	AV Limit (dBuv/m)	Polarization	Result
60.309	0.1	64.765	83.54	H	PASS
60.164	0.1	65.054	83.54	V	PASS



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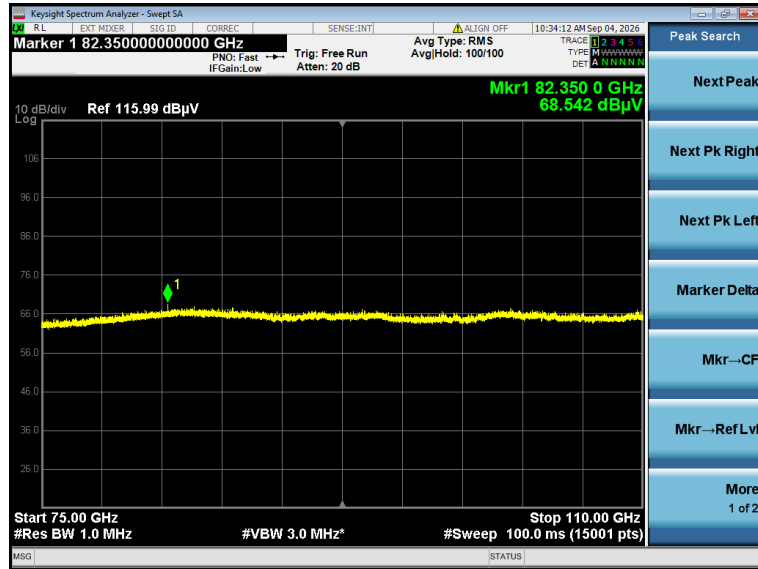
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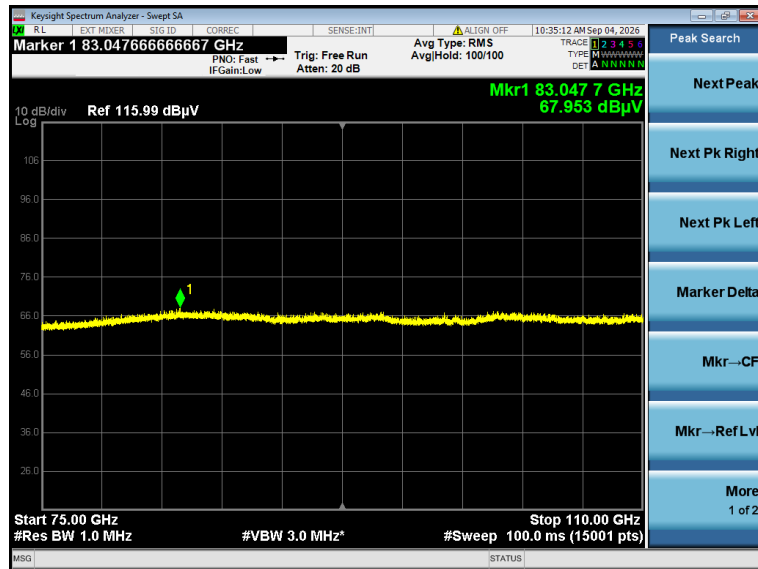
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75-110 GHz Test Mode: 00; Polarity: Horizontal



75-110 GHz Test Mode: 00; Polarity: Vertical



Frequency (GHz)	Distance (M)	AV Value (dBuv/m)	AV Limit (dBuv/m)	Polarization	Result
82.350	0.1	68.542	83.54	H	PASS
83.048	0.1	67.953	83.54	V	PASS



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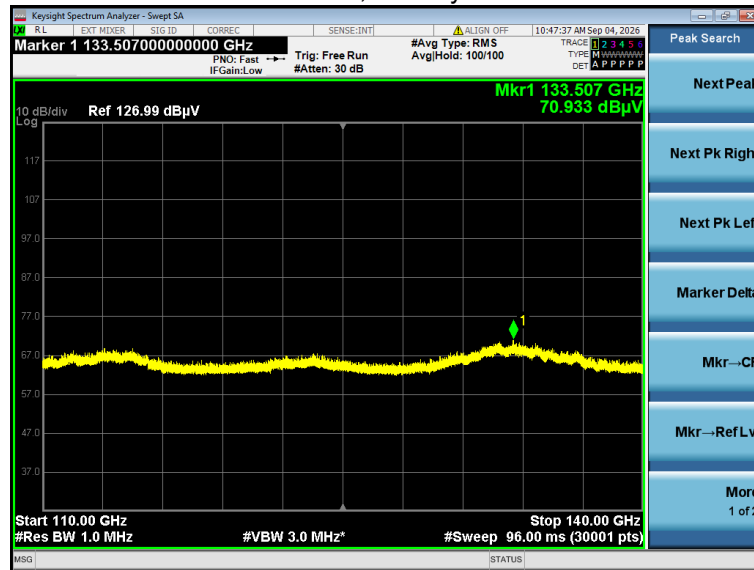
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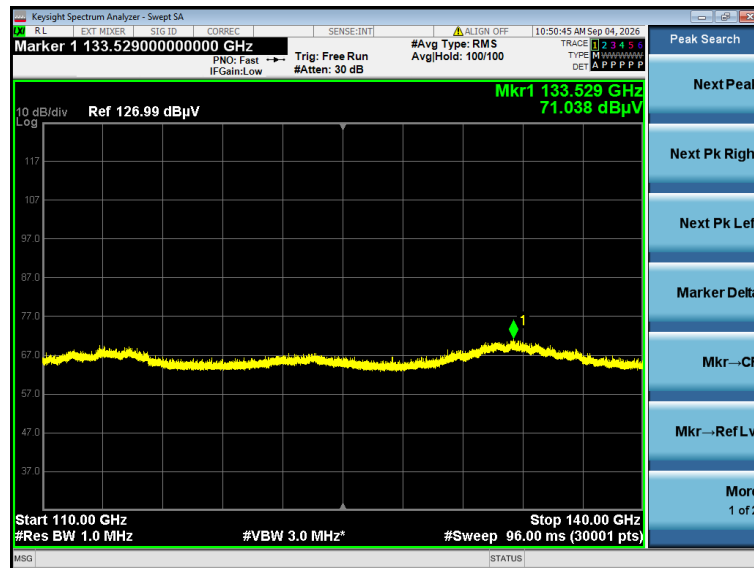
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110-140 GHz Test Mode: 00; Polarity: Horizontal



110-140 GHz Test Mode: 00; Polarity: Vertical



Frequency (GHz)	Distance (M)	AV Value (dBuv/m)	AV Limit (dBuv/m)	Polarization	Result
133.507	0.1	70.933	83.54	H	PASS
133.529	0.1	71.038	83.54	V	PASS



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6.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.10.5

Limit:

- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Frequency	Field Strength microvolts/m at specific distance
-----------	--



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	Peak	AVG
18-40GHz	83.54dBuV/m@1m	63.54dBuV/m@1m

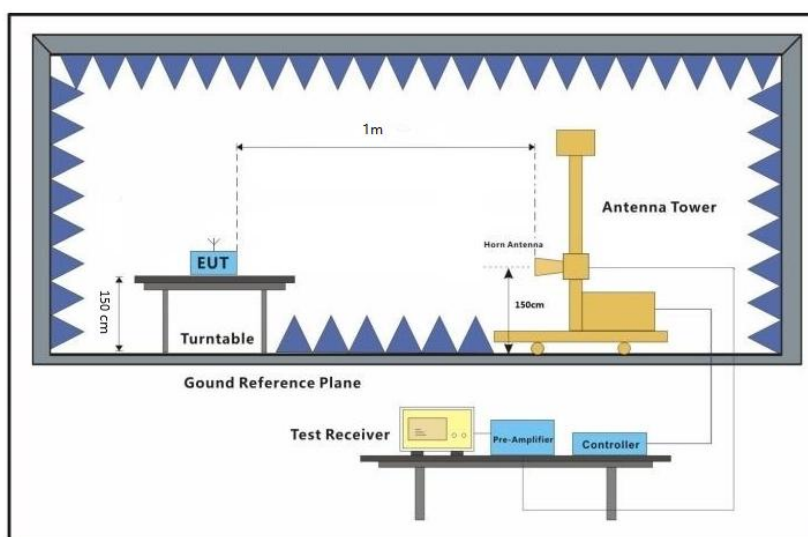
6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test Mode: 00: TX mode _ Keep the EUT in continuously transmitting mode.

6.6.2 Test Setup Diagram



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6.6.3 Measurement Procedure and Data

- 1) The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 4) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 5) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- 6) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- 7) Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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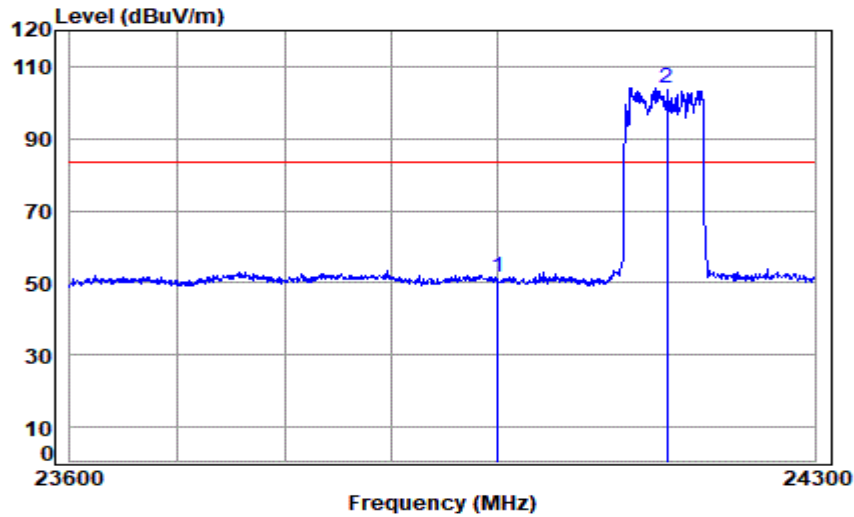
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Test Data:

Peak Horizontal



Condition: 1m HORIZONTAL

Job No : 00329AT

Mode : 24G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	24000.000	9.25	39.30	45.10	48.17	51.62	83.54	-31.92	Peak	0.00
2	pp24159.770	9.50	39.30	45.02	100.34	104.12	83.54	20.58	Peak	0.00



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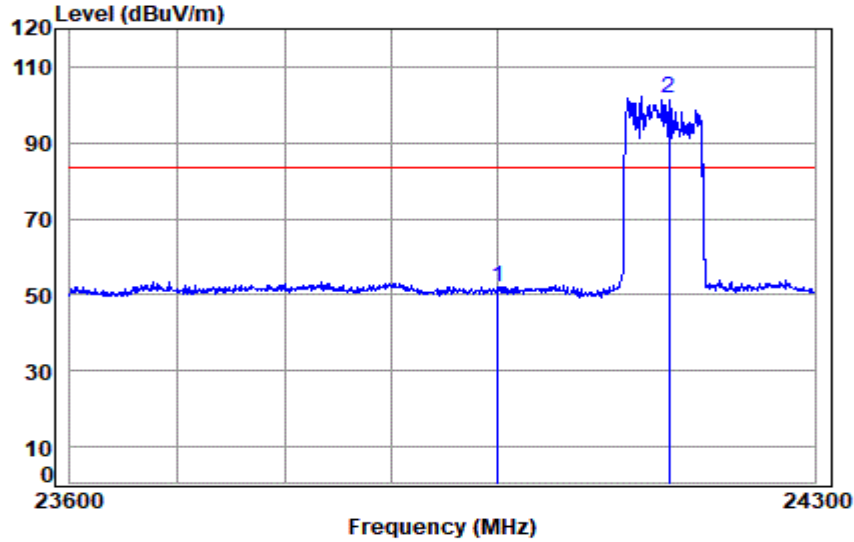
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Peak Vertical



Condition: 1m VERTICAL

Job No : 00329AT

Mode : 24G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	24000.000	9.25	39.30	45.10	48.34	51.79	83.54	-31.75	Peak	0.00
2	pp24161.180	9.51	39.30	45.02	98.18	101.97	83.54	18.43	Peak	0.00



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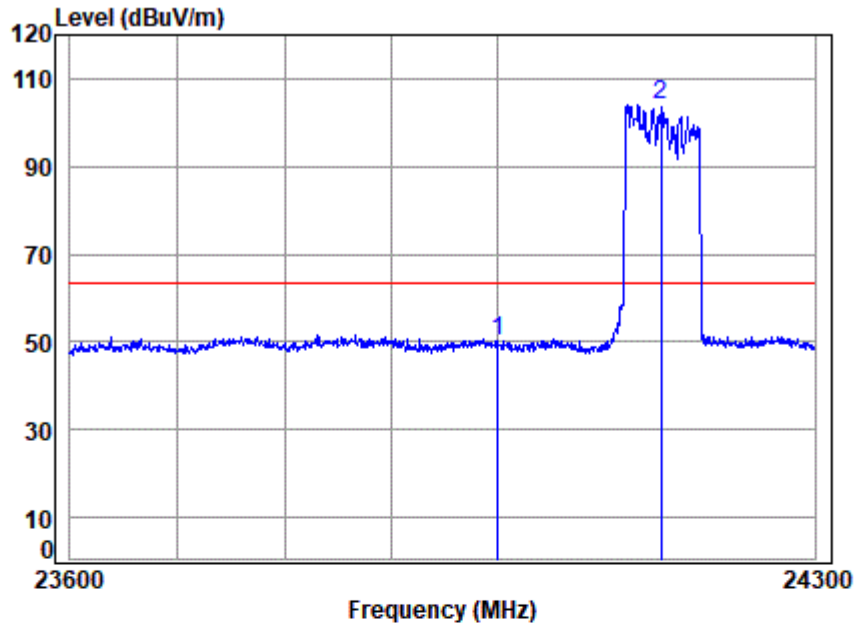
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Average Horizontal



Condition: 1m HORIZONTAL

Job No : 00329AT

Mode : 24G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	24000.000	9.25	39.30	45.10	46.64	50.09	63.54	-13.45	Average	0.00
2	pp24153.420	9.49	39.30	45.02	100.16	103.93	63.54	40.39	Average	0.00



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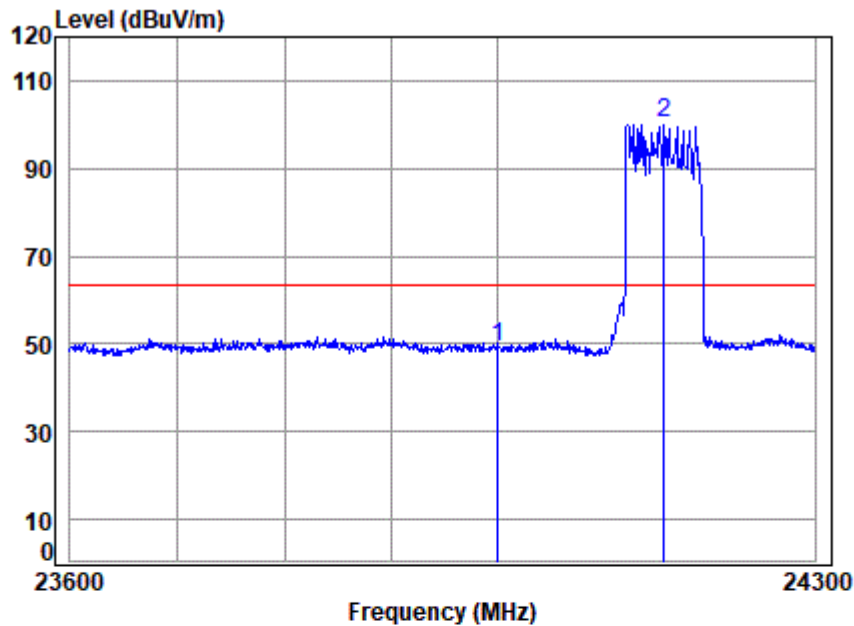
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Average Vertical



Condition: 1m VERTICAL

Job No : 00329AT

Mode : 24G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	24000.000	9.25	39.30	45.10	45.79	49.24	63.54	-14.30	Average	0.00
2	pp24156.950	9.50	39.30	45.02	96.45	100.23	63.54	36.69	Average	0.00



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2607000329AT

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2607000329AT

- End of the Report -



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