

Report No.: GZEM210200105701

Page: 1 of 40

FCC ID: UHW1003301

TEST REPORT**Application No.:**

GZEM2102001057HS

Applicant:

Guangdong Galanz Enterprises Co., Ltd.

Address of Applicant:

25 Ronggui Nan Road, Shunde, Foshan, Guangdong, China

Manufacturer:

Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd.

Address of Manufacturer:

3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China.

Factory:1) Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd.
2) Guangdong Galanz Microwave Oven and Electrical Appliances Manufacturing Co., Ltd.**Address of Factory:**1) 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China.
2) 25 Ronggui Nan Road, Shunde, Foshan, Guangdong, China**Equipment Under Test (EUT):****FCC ID: UHW1003301****EUT Name:**

Microwave oven

Model No.:

RED330(X)H-(Y), RED330JKH-PAHH0A, RED330JKH-PAHH1A

♣

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

Trade Mark:

Galanz

Standard(s):

47 CFR Part 18

Date of Receipt:

2021-02-26

Date of Test:

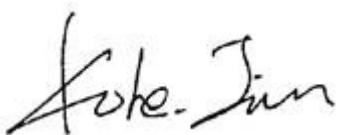
2021-03-08 to 2021-03-15

Date of Issue:

2021-03-23

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



Kobe Jian

EMC Laboratory Manager

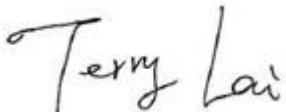


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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-03-23		Original

Authorized for issue by:			
Tested By	 Damon_Guan /Project Engineer		
Reviewed By	 Terry_Lai /Reviewer		

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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.307	Pass
Output Power Measurement	47 CFR Part 18	FCC OST/MP-5:1986	FCC OST/MP-5:1986 Clause 4.3	Pass
Operating Frequency Measurement	47 CFR Part 18	FCC OST/MP-5:1986	18.301	Pass
Radiation Hazard Test	47 CFR Part 18	FCC OST/MP-5:1986	1 mW/cm ²	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.305	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.305	Pass
Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.305	Pass

◆ Declaration of EUT Family Grouping:

Model No.: RED330 (X) H-(Y), RED330JKH-PAHH0A, RED330JKH-PAHH1A

Variable (X): It represents the differences of the appearance, including combination of letters and/or numbers

Variable (Y): may compose by one to six characters from A to Z and/or numbers from 0 to 9

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the outer appearance and model name.

Therefore, only one model RED330JKH-PAHH0A was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC 120V 60Hz
Test Voltage: AC 120V 60Hz
Cable(s): About 1.0m x 3 wires unscreened AC mains cable.

4.2 Description of Support Units

Load for microwave ovens for testing:

1000mL of water in the beaker for power output and frequency measurement.
One of 700 and the other of 300mL of water for second and third harmonic radiation measurement.
700mL of water for all other measurement

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz to 30MHz)	3.12dB
Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)	3.12dB
Radiated Emissions (30MHz-1GHz)	5.06dB (3m) 4.46dB (10m)
Radiated Emissions (above 1GHz)	5.08dB (1GHz-6GHz) 5.14dB (6GHz-25GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR 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.

4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

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4.5 Test Facility

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

● NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-01-08	2022-01-07
LISN	Rohde & Schwarz	ENV216	EMC2135	2020-09-25	2021-09-24
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2020-11-13	2021-11-12
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Voltage Probe	SGS-EMC	N/A	EMC0106	2019-05-10	2021-05-09
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2020-04-19	2022-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2021-01-03	2022-01-02
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2020-06-08	2023-06-07
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
Amplifier	HP	8447F	EMC2065	2020-05-26	2021-05-25
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2020-11-13	2021-11-12
Active Loop Antenna	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-19	2023-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

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Radiated Emissions (30MHz-1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier	HP	8447F	EMC2065	2020-05-26	2021-05-25
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-01-08	2022-01-07
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Emissions (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2016	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiation hazard test

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Electric Field Probe(100kHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2020-05-29	2021-05-28

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2020-07-09	2021-07-08
DMM	Fluke	73	EMC0007	2020-07-09	2021-07-08

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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 150kHz to 30MHz

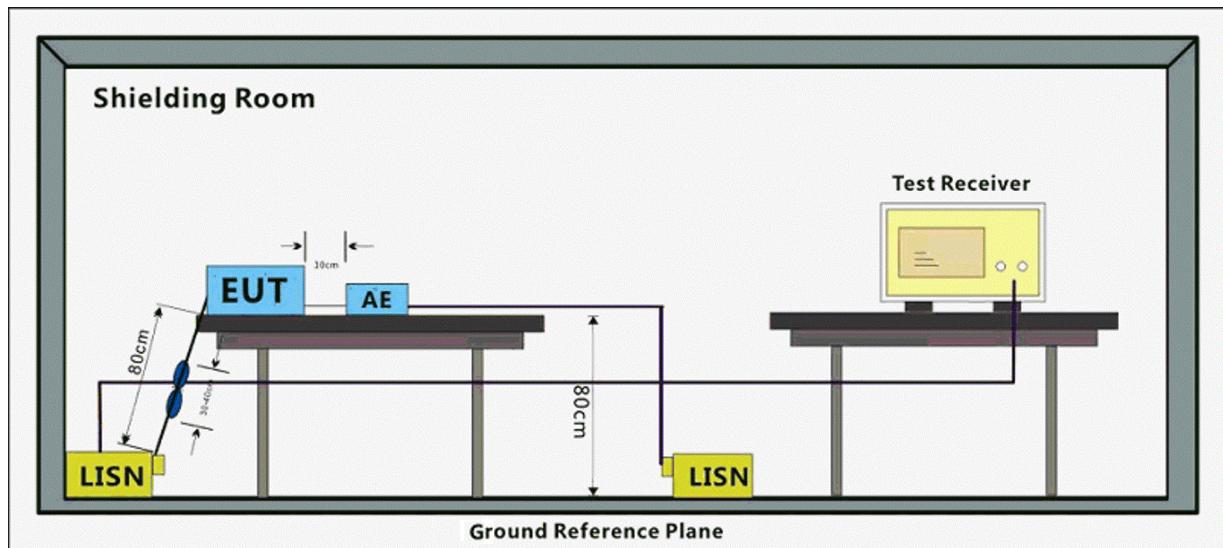
Limit:
0.15M-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz 56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz 60dB(μV) quasi-peak, 50dB(μV) average
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature:	23 °C	Humidity:	52 % RH	Atmospheric Pressure:	1020 mbar
Pre-scan / Final test	Mode Code	Description			
Final test	00	Test the EUT in microwave mode with maximum power.			
Pre-scan	01	Test the EUT in microwave mode with middle power.			
Pre-scan	02	Test the EUT in microwave mode with lowest power.			

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Measured Level = Read level + Cable Loss + LISN Factor

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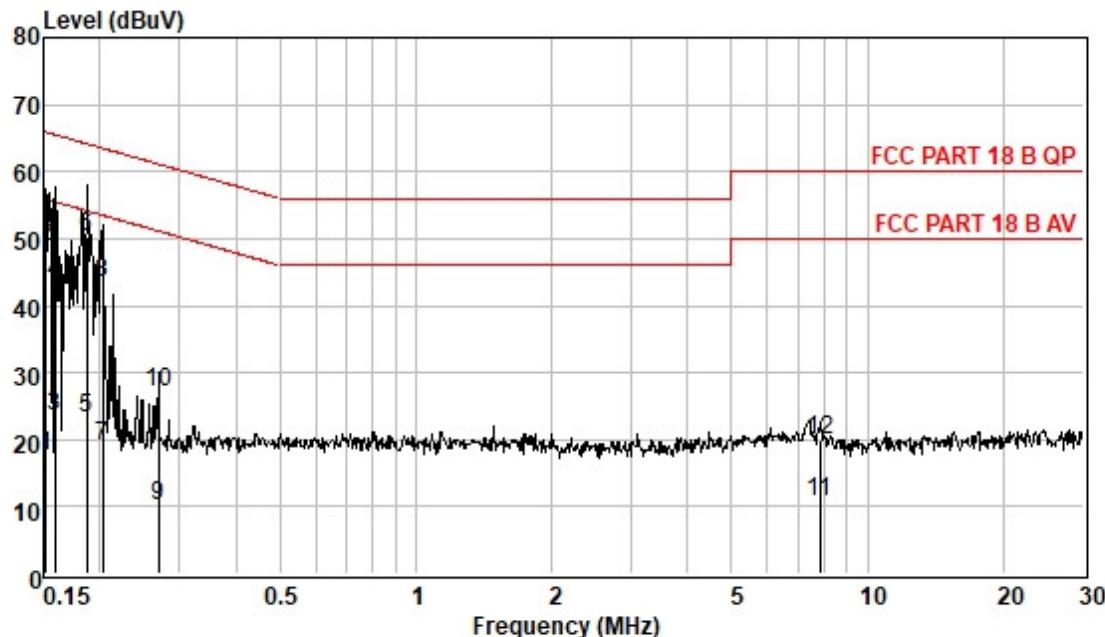
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Test Mode: 00; Line: Live line



Pol :LINE

Mode :

Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Line Limit dBuV	Over Limit dB	Remark
0.15	7.99	0.06	9.62	17.67	55.91	-38.24	Average
0.15	39.21	0.06	9.62	48.89	65.91	-17.02	QP
0.16	13.67	0.06	9.62	23.35	55.52	-32.17	Average
0.16	33.89	0.06	9.62	43.57	65.52	-21.95	QP
0.19	13.63	0.06	9.63	23.32	54.15	-30.83	Average
0.19	40.47	0.06	9.63	50.16	64.15	-13.99	QP
0.20	9.28	0.06	9.63	18.97	53.49	-34.52	Average
0.20	33.73	0.06	9.63	43.42	63.49	-20.07	QP
0.27	0.34	0.06	9.62	10.02	51.12	-41.10	Average
0.27	17.53	0.06	9.62	27.21	61.12	-33.91	QP
7.85	0.77	0.21	9.68	10.66	50.00	-39.34	Average
7.85	9.92	0.21	9.68	19.81	60.00	-40.19	QP

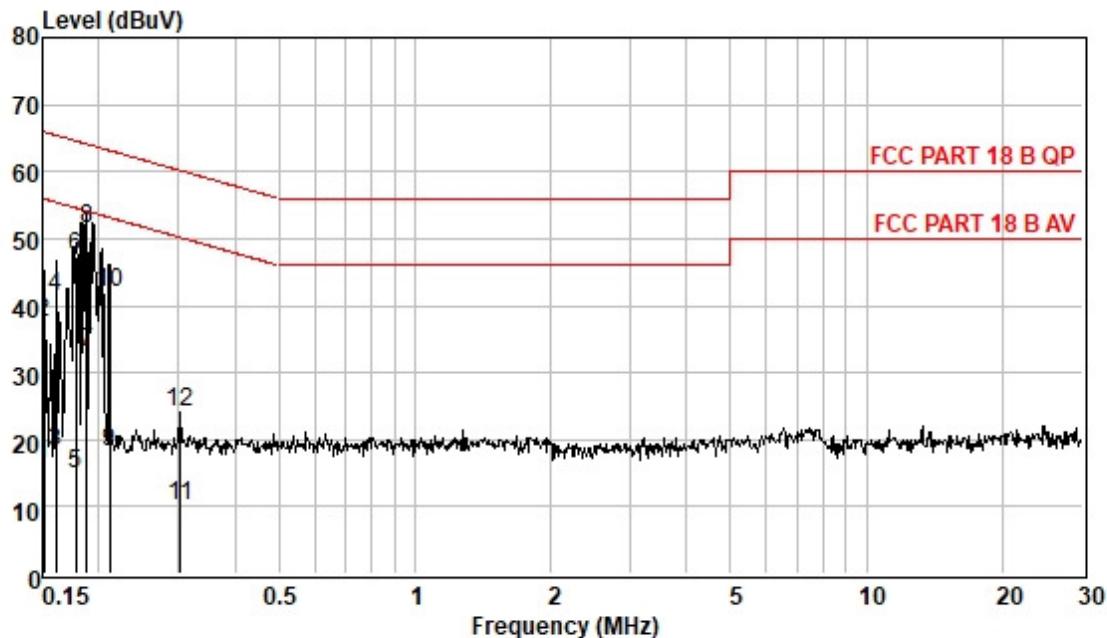
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Test Mode: 00; Line: Neutral Line



Pol :NEUTRAL

Mode :

Model :

Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.15	6.76	0.06	9.55	16.37	55.96	-39.59	Average
0.15	28.00	0.06	9.55	37.61	65.96	-28.35	QP
0.16	8.46	0.06	9.55	18.07	55.43	-37.36	Average
0.16	31.69	0.06	9.55	41.30	65.43	-24.13	QP
0.18	5.23	0.06	9.55	14.84	54.59	-39.75	Average
0.18	37.55	0.06	9.55	47.16	64.59	-17.43	QP
0.19	23.31	0.06	9.54	32.91	54.11	-21.20	Average
0.19	41.75	0.06	9.54	51.35	64.11	-12.76	QP
0.21	8.39	0.06	9.54	17.99	53.14	-35.15	Average
0.21	32.27	0.06	9.54	41.87	63.14	-21.27	QP
0.30	0.59	0.06	9.54	10.19	50.15	-39.96	Average
0.30	14.62	0.06	9.54	24.22	60.15	-35.93	QP

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6.1 Output Power Measurement

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 19.9 °C Humidity: 50.4 % RH Atmospheric Pressure: 1019 mbar

Test mode 00. Test the EUT in microwave mode with maximum power.

6.1.2 Measurement Data

Mass of water (g)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time(s)	Power output (watts)
1000	410	19.9	10.0	20.1	43	984.5

Formula :

$$P = \frac{4,187 \cdot m_w (T_2 - T_1) + 0,55 \cdot m_c (T_2 - T_0)}{t}$$

NOTE :

P is the microwave power output, in watts

m_w is the mass of the water, in grams

m_c is the mass of the container, in grams

T_0 is the ambient temperature, in degrees Celsius

T_1 is the initial temperature of the water, in degrees Celsius

T_2 is the final temperature of the water, in degrees Celsius

t is the heating time, in seconds, excluding the magnetron filament heating-up time.

6.1.3 Input Power Measurement

The EUT was set up according to the MP-5 for input power measurement, the input power and current was measured using a power analyzer. Water load in a beaker was located in the center of the oven and the microwave oven was set to maximum power.

Base on the measured input power it was found that the microwave oven can operating as the user manual's specifications.

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
120.01	13.21	0.934	1481	1500

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6.2 Radiation Hazard Test

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Test distance: Five centimeters from the oven surface

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 51.3 % RH Atmospheric Pressure: 1021 mbar

Test mode 00: Test the EUT in microwave mode with maximum power.

6.2.2 Measurement Data

Maximum measure level (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
0.046	1.00	Pass

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6.3 Operating Frequency

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Frequency Range: 2400-2500 MHz

Detector: Average for the final result for outside ISM band(2450MHz±50MHz)

Outside band limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.

(b) The field strength levels of emissions which lie outside the bands specified in §18.301,unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(uV/m) @300m
Below 500	25
500 or more	25*SQRT(power/500)

Power =984.5 W according to clause 6.1.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3)=70.90dBuV/m @ 3m distance.

ISM band: ISM equipment may be operated on any frequency above 9 kHz.

And the frequency band 2400-2500MHz is allocated for use by ISM equipment.
(§18.301)

ISM frequency	Tolerance
6.78MHz	±15.0kHz
13.56MHz	±7.0kHz
27.12MHz	±163.0kHz
40.68MHz	±20.0kHz
915MHz	±13.0MHz
2450MHz	±50.0MHz
5800MHz	±75.0MHz
24125MHz	±125.0MHz
61.25GHz	±250.0MHz
122.5GHz	±500.0MHz
245.00GHz	±1.0GHz

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6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 51.4 % RH Atmospheric Pressure: 1022 mbar

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

6.3.2 Measurement Data

1) The variation of frequency with time

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature, the operating frequency was monitored until the water load was reduced to 20 percent of the original quantity.

Test record was found the worst situation is when the water load is reduced to 20 percent of the original quantity.

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2460

2) The variation of frequency with line voltage.

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature. The EUT was started to warm by at least 10 minutes, the operating frequency was monitored as the rated voltage was varied from 80% to 125%.

Test record was found the worst situation is when the line voltage is 125% of rated AC voltage.

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2459

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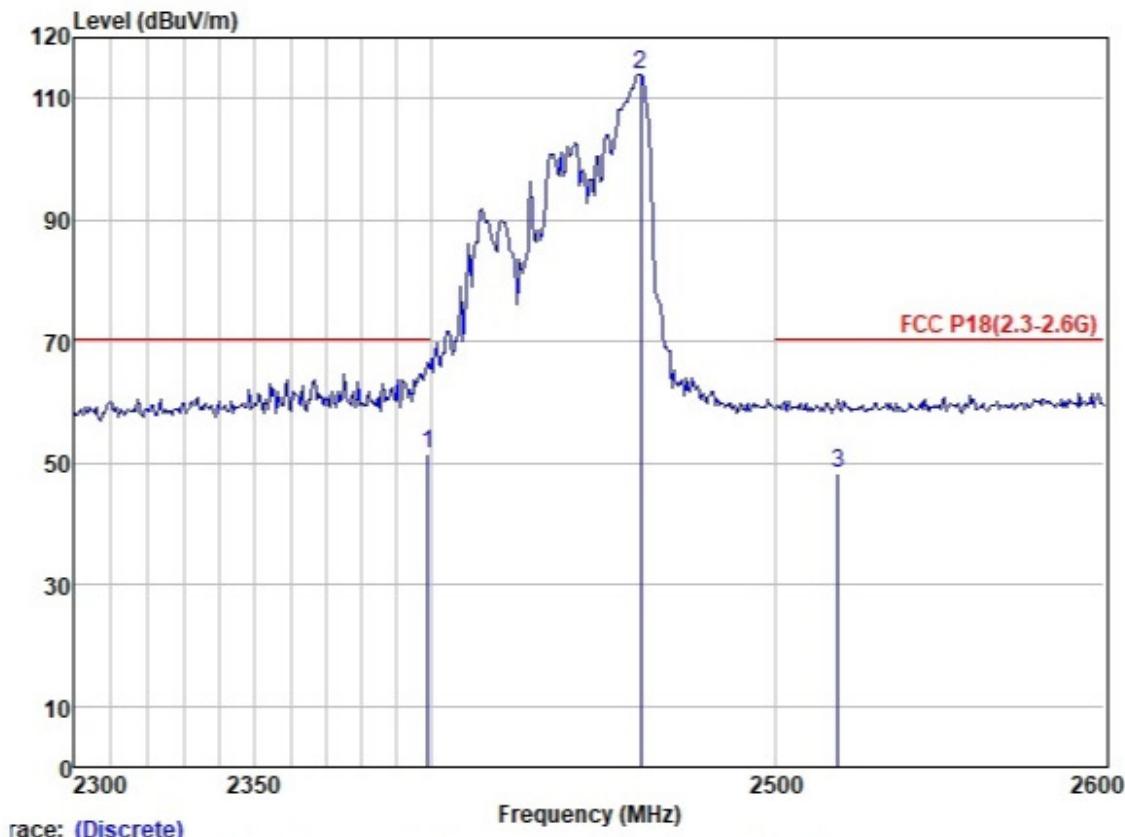
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1) The variation of frequency with time



Trace: (Discrete)	ReadAntenna			Cable		Preamp		Limit	Over	Over	Remark
	Freq	Level	Factor	Loss	Factor	Level	Line				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2398.783	20.78	27.35	3.50	0.00	51.63	70.90	-19.27	VERTICAL	Average	
2	2460.440	83.06	27.44	3.45	0.00	113.95	-----	-----	VERTICAL	Peak	
3	2518.737	17.46	27.52	3.42	0.00	48.40	70.90	-22.50	VERTICAL	Average	

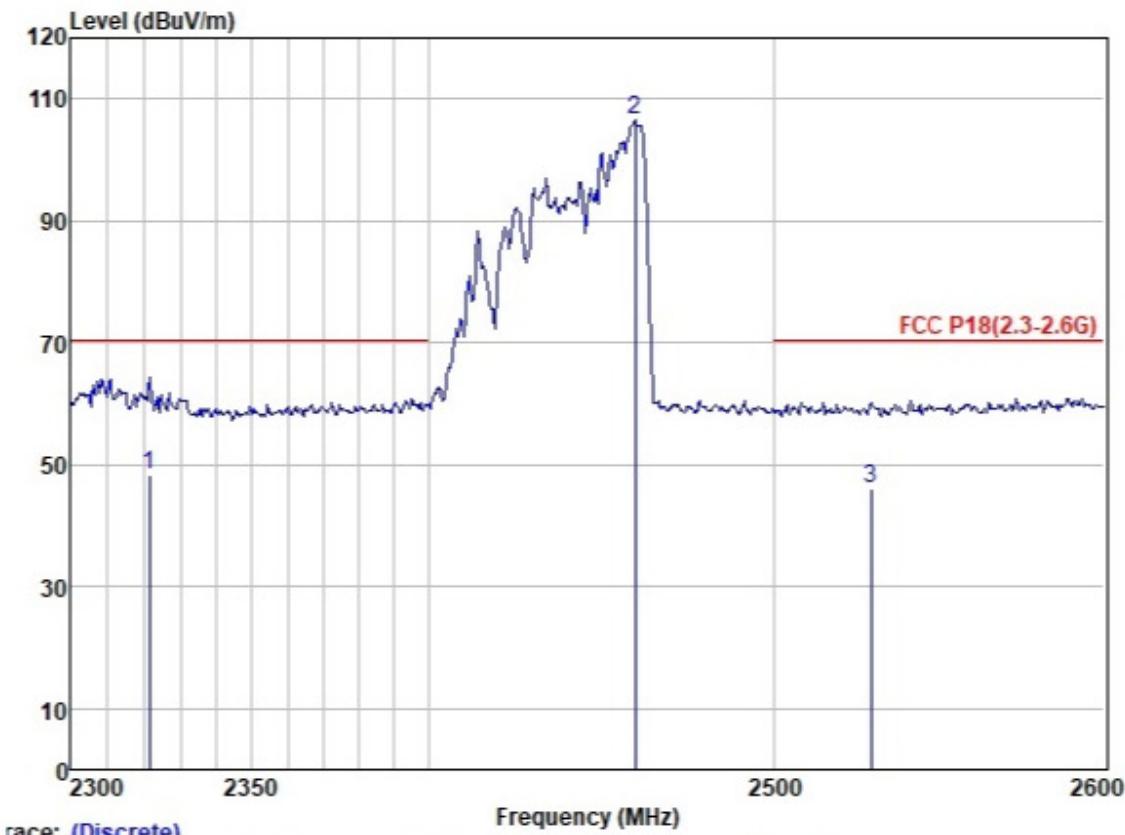
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2) The variation of frequency with line voltage



Trace: (Discrete)	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2321.531	17.79	27.17	3.33	0.00	48.29	70.90	-22.61	HORIZONTAL	Average	
2	2459.234	75.53	27.44	3.45	0.00	106.42	-----	-----	HORIZONTAL	Peak	
3	2528.948	15.16	27.53	3.43	0.00	46.12	70.90	-24.78	HORIZONTAL	Average	

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6.4 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 30MHz to 1GHz
Measurement Distance: 3m
Detector: Peak for pre-scan, Average for the final result
(100 kHz Resolution Bandwidth for 30MHz to 1,000MHz)
Limit:
(a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
(b) The field strength levels of emissions which lie outside the bands specified in §18.301,unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(uV/m) @300m
Below 500	25
500 or more	25*SQRT(power/500)

Power =984.5 W according to clause 6.1.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3)=70.90dBuV/m @ 3m distance.

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

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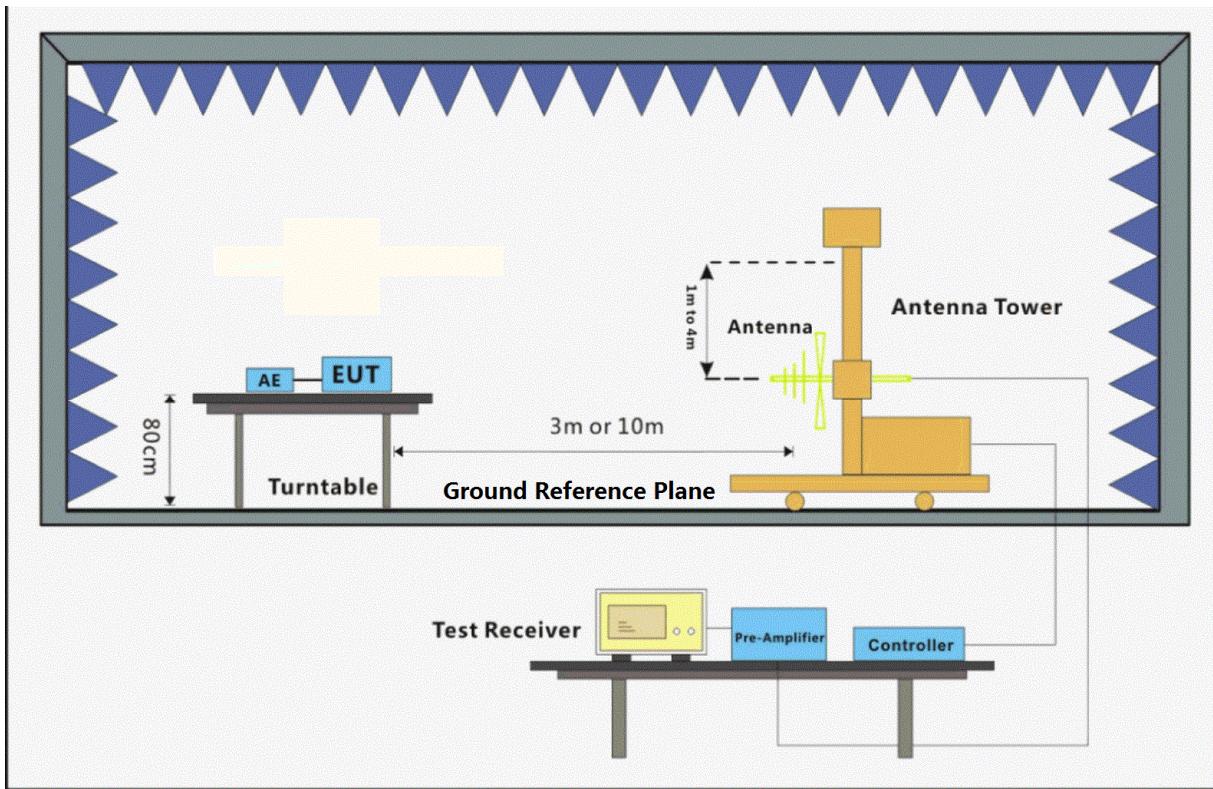
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6.4.2 Test Setup Diagram



6.4.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

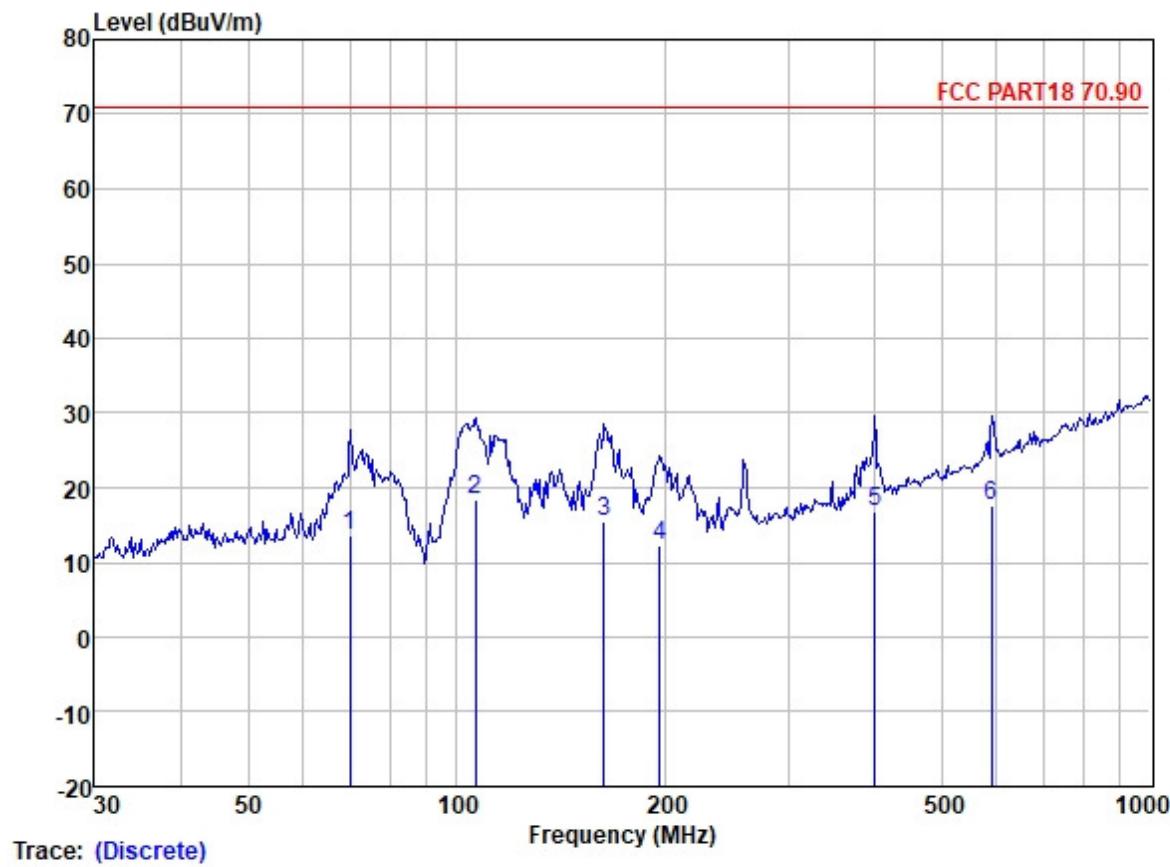
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Test Mode: 00; Polarity: Horizontal



Site : SGS
 Condition : FCC PART18 70.90 HORIZONTAL
 Job :
 Model :
 Power :
 Test Mode :
 :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 70.09	27.45	11.90	1.41	27.13	13.63	70.90	-57.27	HORIZONTAL	Average
2 106.39	33.60	10.07	1.77	27.07	18.37	70.90	-52.53	HORIZONTAL	Average
3 163.18	26.32	13.53	2.35	26.79	15.41	70.90	-55.49	HORIZONTAL	Average
4 195.82	25.80	10.60	2.51	26.73	12.18	70.90	-58.72	HORIZONTAL	Average
5 400.43	24.38	15.70	3.93	27.33	16.68	70.90	-54.22	HORIZONTAL	Average
6 590.97	21.31	19.50	5.10	28.20	17.71	70.90	-53.19	HORIZONTAL	Average

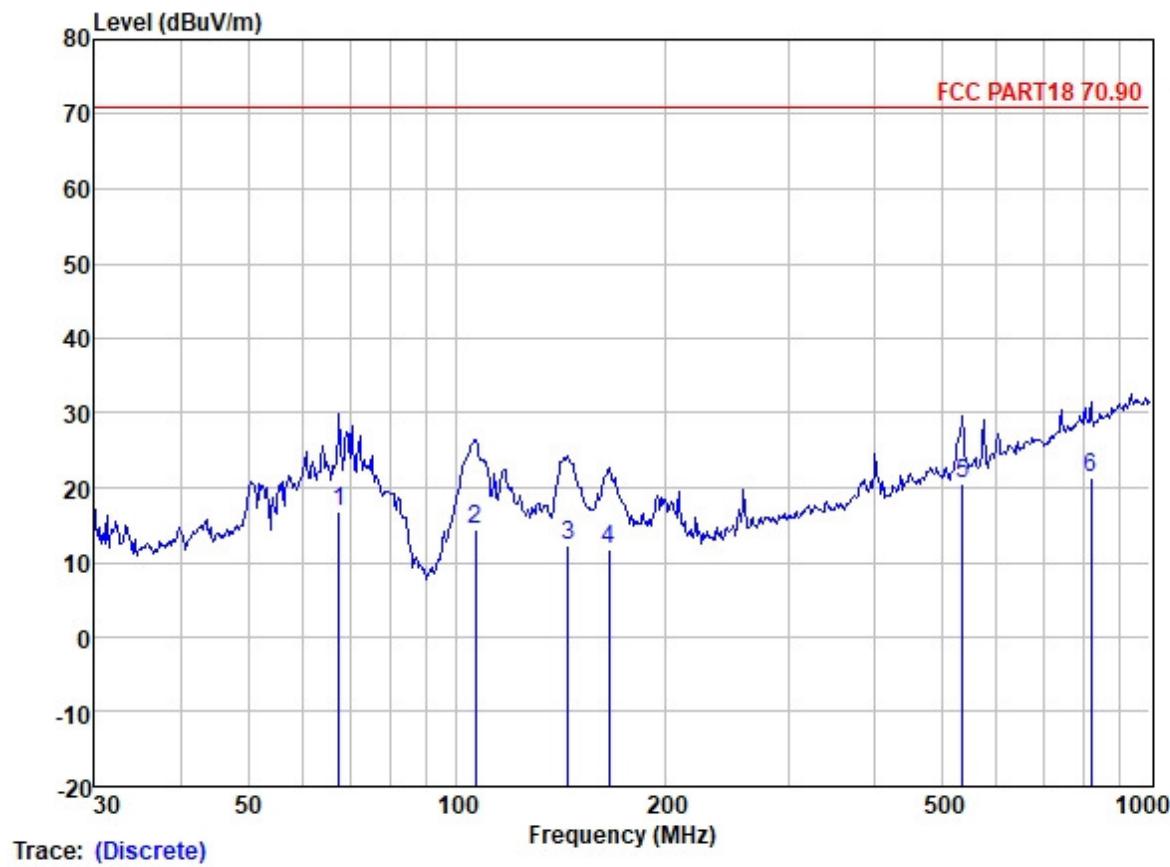
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Test Mode: 00; Polarity: Vertical



Site : SGS
 Condition : FCC PART18 70.90 VERTICAL
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 67.68	30.34	12.24	1.38	27.14	16.82	70.90	-54.08	VERTICAL	Average
2 106.39	29.73	10.07	1.77	27.07	14.50	70.90	-56.40	VERTICAL	Average
3 144.84	23.39	13.65	2.18	26.87	12.35	70.90	-58.55	VERTICAL	Average
4 165.49	22.60	13.42	2.37	26.78	11.61	70.90	-59.29	VERTICAL	Average
5 535.71	25.64	18.35	4.65	28.05	20.59	70.90	-50.31	VERTICAL	Average
6 821.71	20.38	22.78	6.30	28.00	21.46	70.90	-49.44	VERTICAL	Average

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6.5 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Frequency Range: Above 1GHz
 Measurement Distance: 3m
 Detector: Peak for pre-scan, Average for the final result
 Limit:
 (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 (b) The field strength levels of emissions which lie outside the bands specified in §18.301,unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(uV/m) @300m
Below 500	25
500 or more	25*SQRT(power/500)

Power =984.5 W according to clause 6.1.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3)=**70.90dBuV/m** @ 3m distance.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

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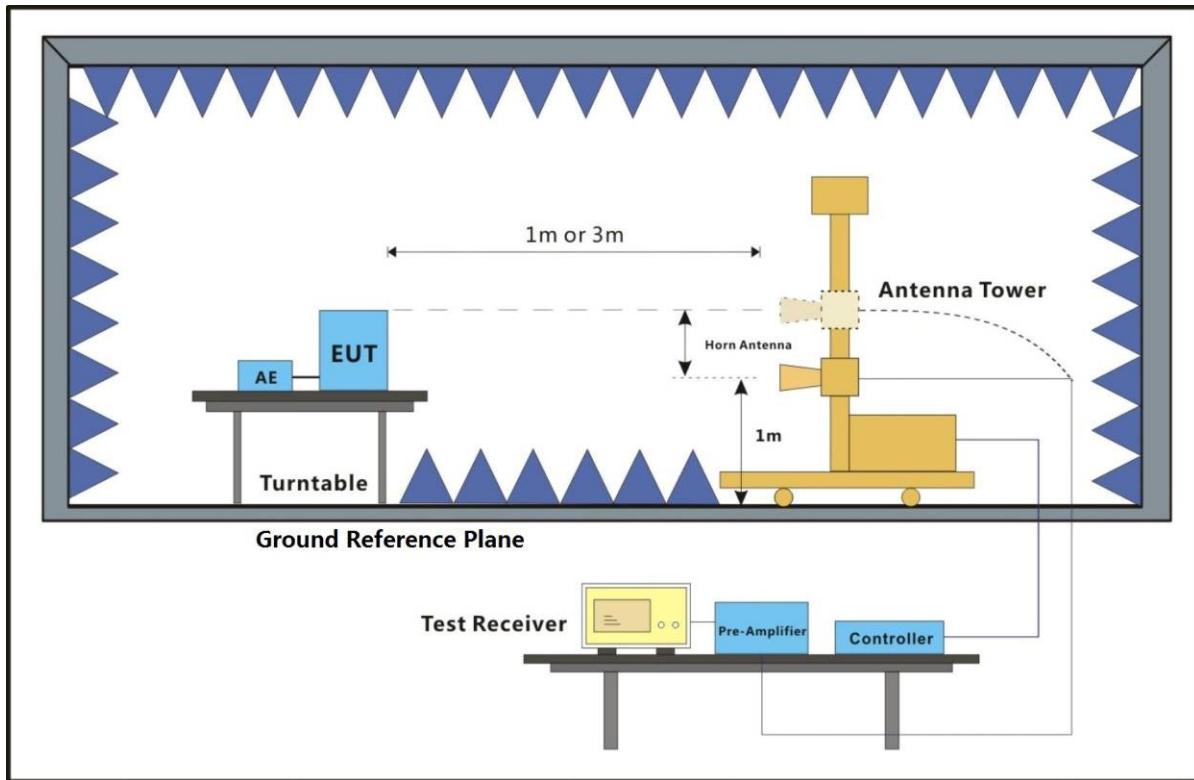
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6.5.2 Test Setup Diagram



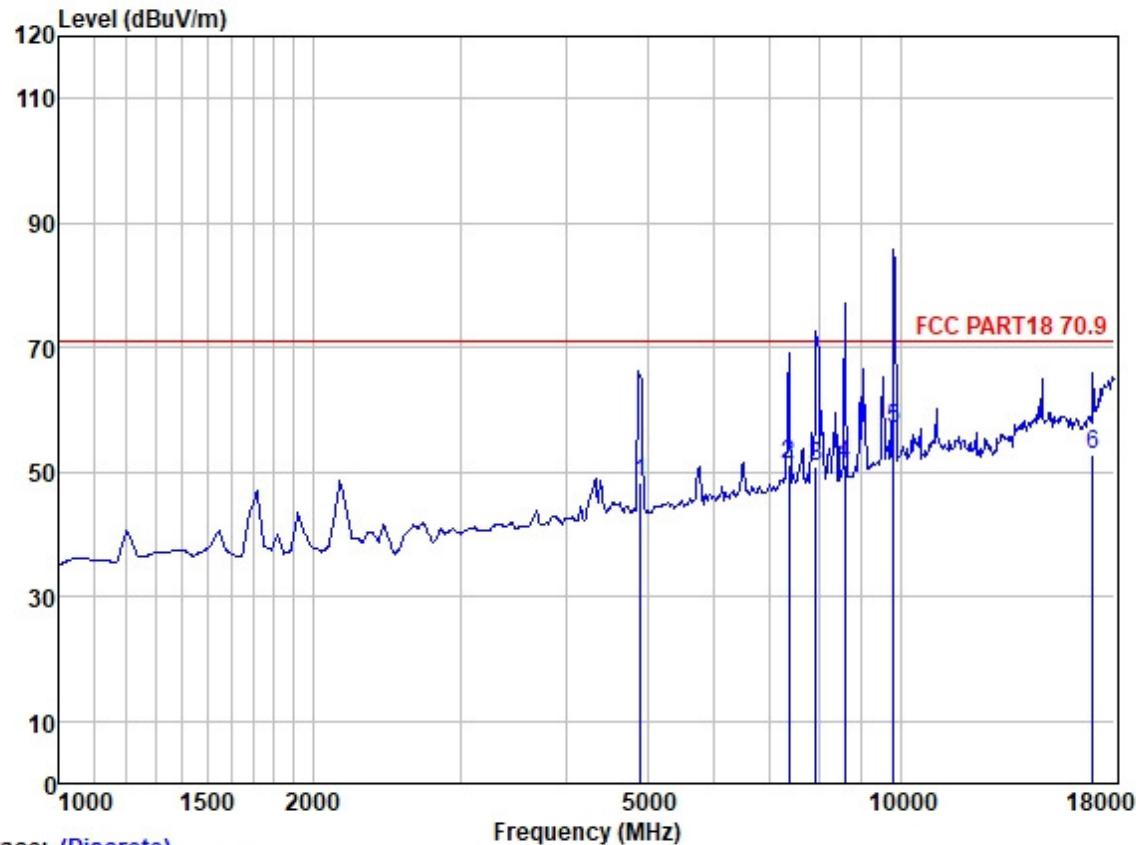
6.5.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

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Mode: (Discrete)

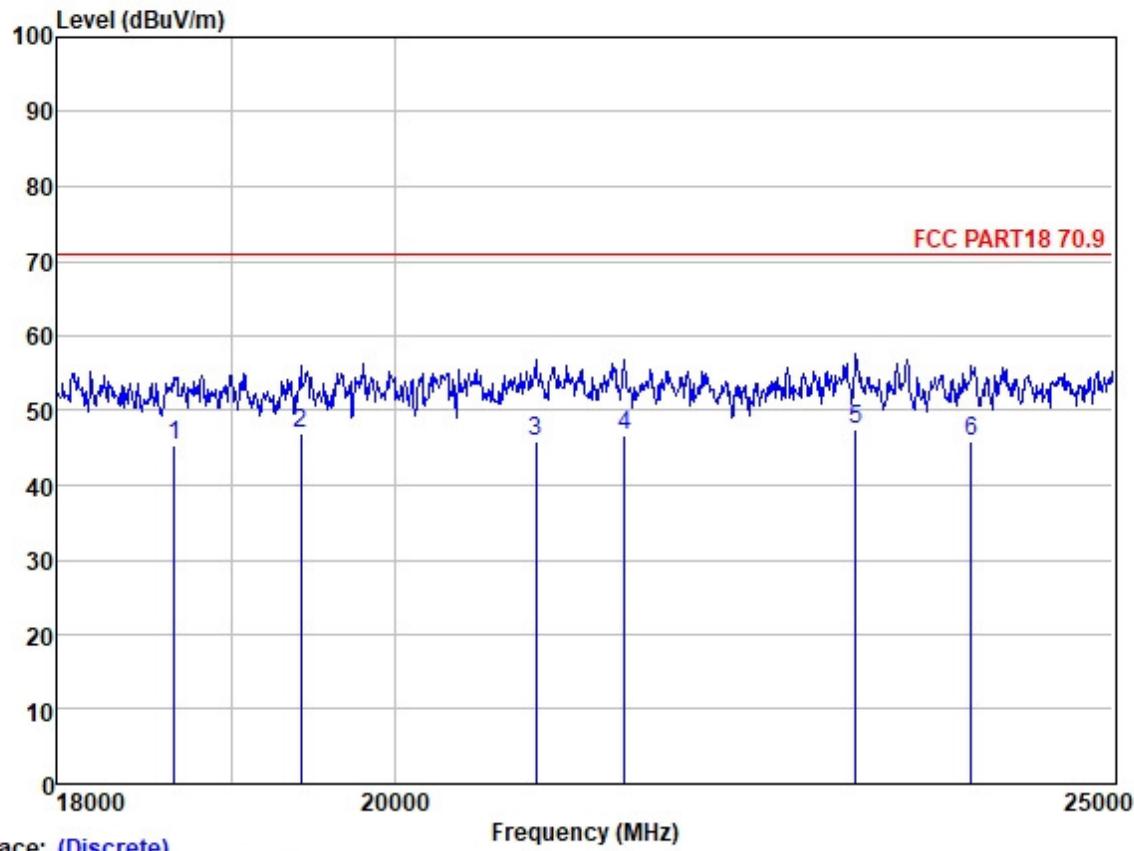
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 4914.152	47.87	31.60	5.58	36.84	48.21	70.90	-22.69	HORIZONTAL	Average
2 7374.313	46.21	36.12	6.17	37.45	51.05	70.90	-19.85	HORIZONTAL	Average
3 7943.838	45.33	36.87	6.16	37.59	50.77	70.90	-20.13	HORIZONTAL	Average
4 8588.607	44.54	37.23	6.84	37.56	51.05	70.90	-19.85	HORIZONTAL	Average
5 9809.916	48.72	38.56	7.00	37.41	56.87	70.90	-14.03	HORIZONTAL	Average
6 16939.940	37.42	41.45	9.39	35.36	52.90	70.90	-18.00	HORIZONTAL	Average

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Race: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18668.460	26.19	37.97	16.81	35.60	45.37	70.90	-25.53	HORIZONTAL	Average
2	19419.080	27.46	38.00	17.04	35.60	46.90	70.90	-24.00	HORIZONTAL	Average
3	20888.190	25.41	37.91	17.95	35.47	45.80	70.90	-25.10	HORIZONTAL	Average
4	21472.620	25.76	38.05	18.28	35.36	46.73	70.90	-24.17	HORIZONTAL	Average
5	23074.330	24.47	39.60	19.25	35.75	47.57	70.90	-23.33	HORIZONTAL	Average
6	23923.380	22.04	39.60	20.34	36.08	45.90	70.90	-25.00	HORIZONTAL	Average

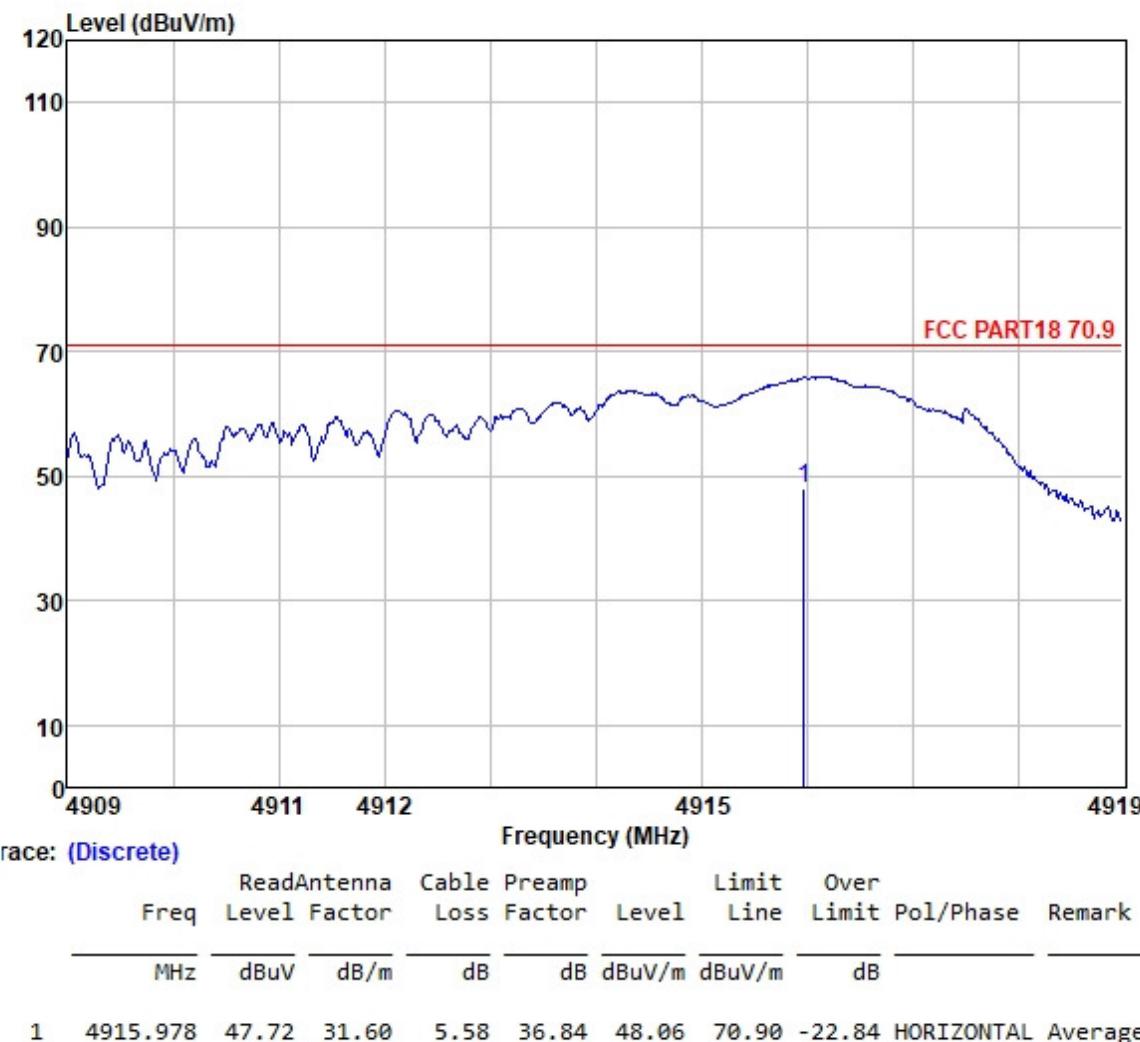
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Test Mode: 00; Polarity: Horizontal



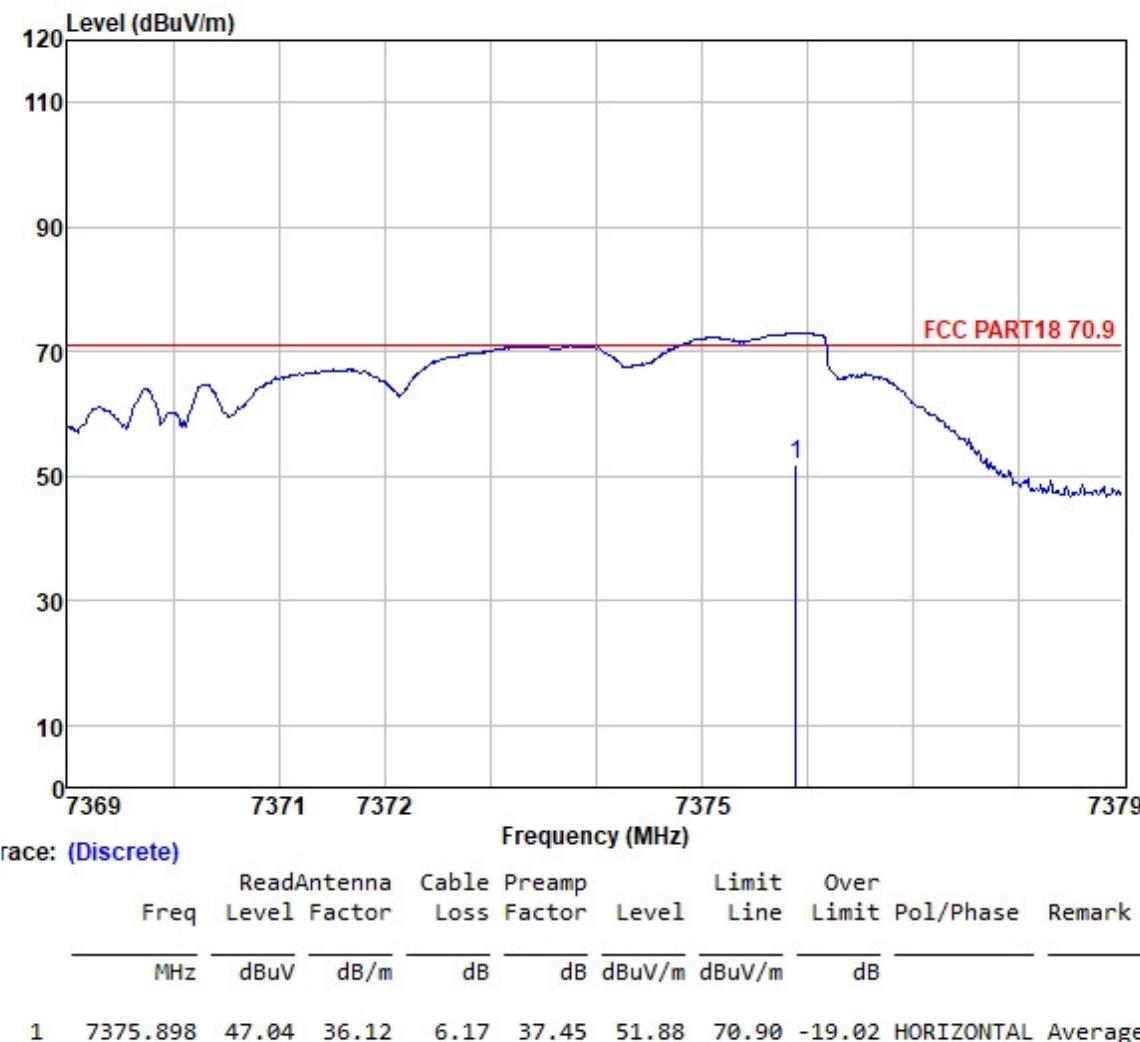
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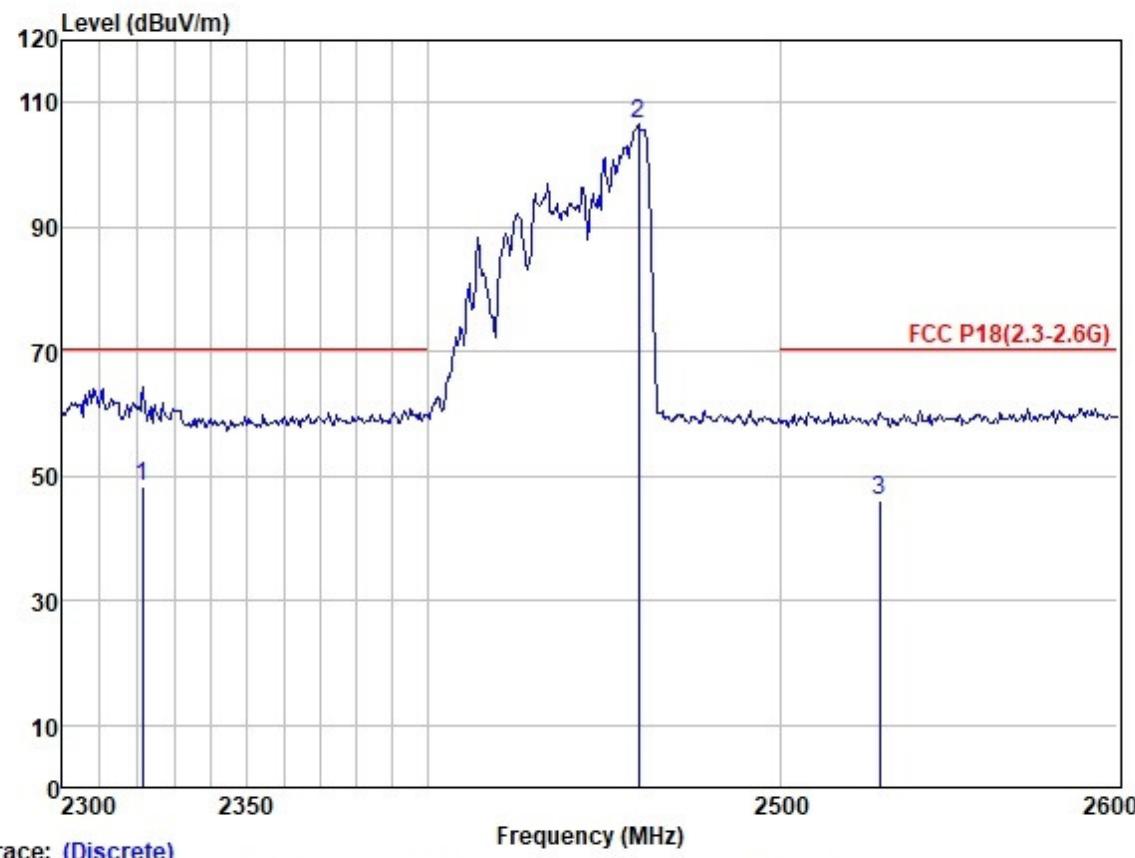
Test Mode: 00; Polarity: Horizontal



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Test Mode: 00; Polarity: Horizontal



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1 2321.531	17.79	27.17	3.33	0.00	48.29	70.90	-22.61	HORIZONTAL	Average		
2 2459.234	75.53	27.44	3.45	0.00	106.42	-----	-----	HORIZONTAL	Peak		
3 2528.948	15.16	27.53	3.43	0.00	46.12	70.90	-24.78	HORIZONTAL	Average		

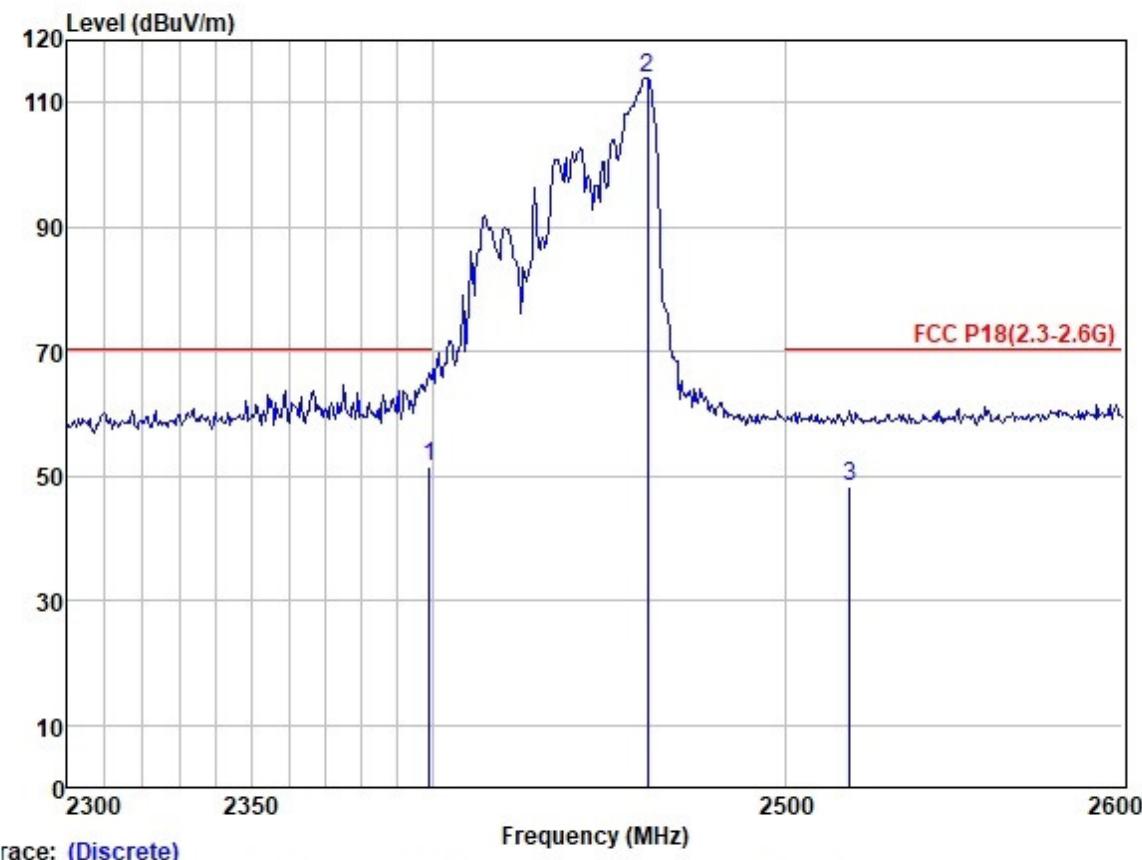
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Test Mode: 00; Polarity: Vertical



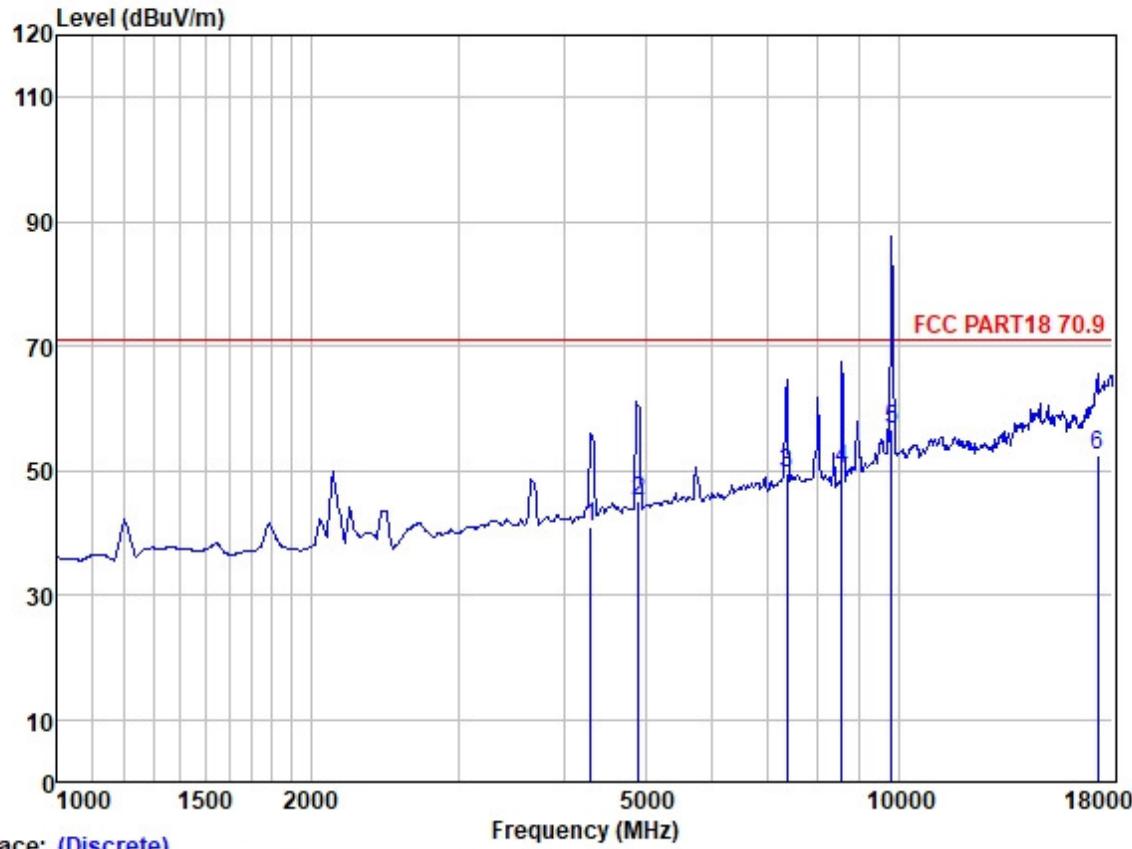
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	Line		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2398.783	20.78	27.35	3.50	0.00	51.63	70.90	-19.27	VERTICAL Average
2 2460.440	83.06	27.44	3.45	0.00	113.95	-----	-----	VERTICAL Peak
3 2518.737	17.46	27.52	3.42	0.00	48.40	70.90	-22.50	VERTICAL Average

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Mode: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4304.400	42.70	30.48	4.65	36.81	41.02	70.90	-29.88	VERTICAL	Average
2	4909.242	44.73	31.58	5.55	36.84	45.02	70.90	-25.88	VERTICAL	Average
3	7365.295	44.90	36.12	6.17	37.45	49.74	70.90	-21.16	VERTICAL	Average
4	8563.818	43.94	37.21	6.80	37.56	50.39	70.90	-20.51	VERTICAL	Average
5	9809.916	48.37	38.56	7.00	37.41	56.52	70.90	-14.38	VERTICAL	Average
6	17236.280	34.69	43.01	10.08	35.33	52.45	70.90	-18.45	VERTICAL	Average

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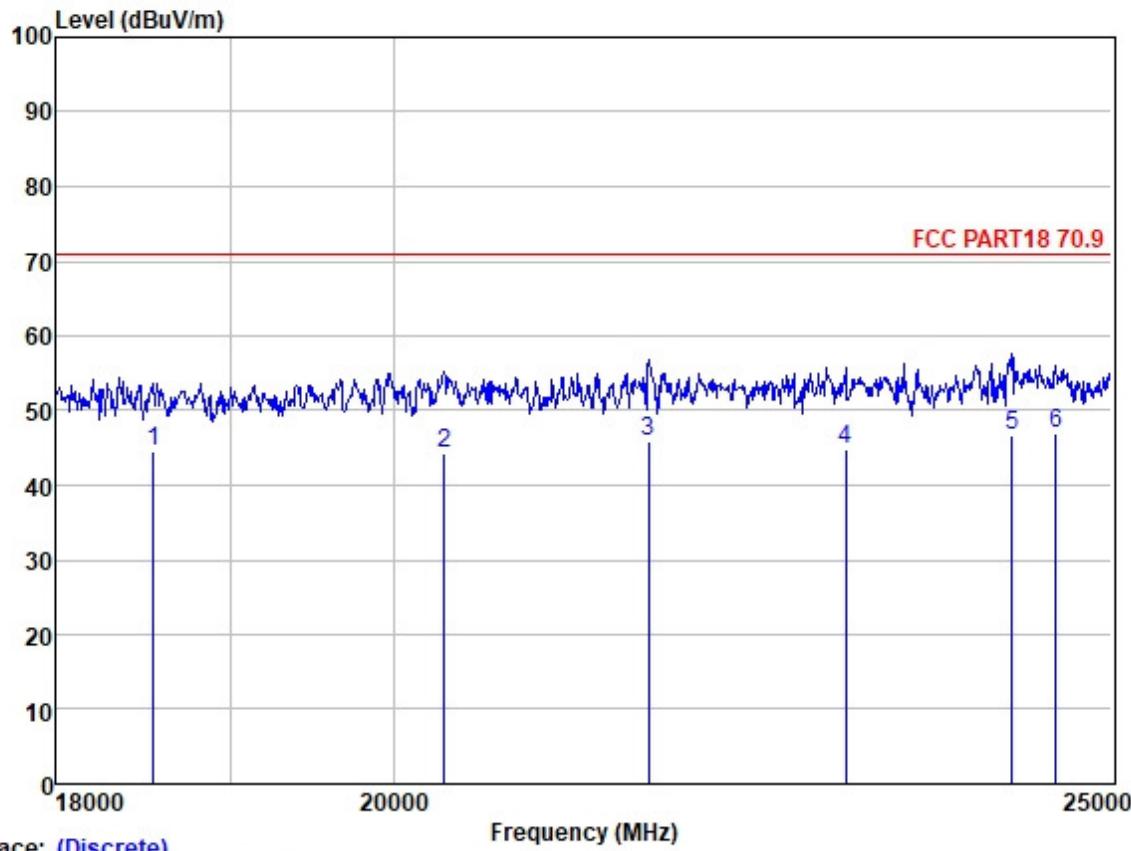


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Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18552.310	25.44	37.96	16.75	35.60	44.55	70.90	-26.35	VERTICAL	Average
2	20306.330	24.35	37.98	17.46	35.56	44.23	70.90	-26.67	VERTICAL	Average
3	21642.580	24.63	38.12	18.44	35.34	45.85	70.90	-25.05	VERTICAL	Average
4	23013.770	21.78	39.60	19.21	35.75	44.84	70.90	-26.06	VERTICAL	Average
5	24231.850	22.68	39.55	20.53	36.11	46.65	70.90	-24.25	VERTICAL	Average
6	24568.500	22.78	39.42	20.91	36.13	46.98	70.90	-23.92	VERTICAL	Average

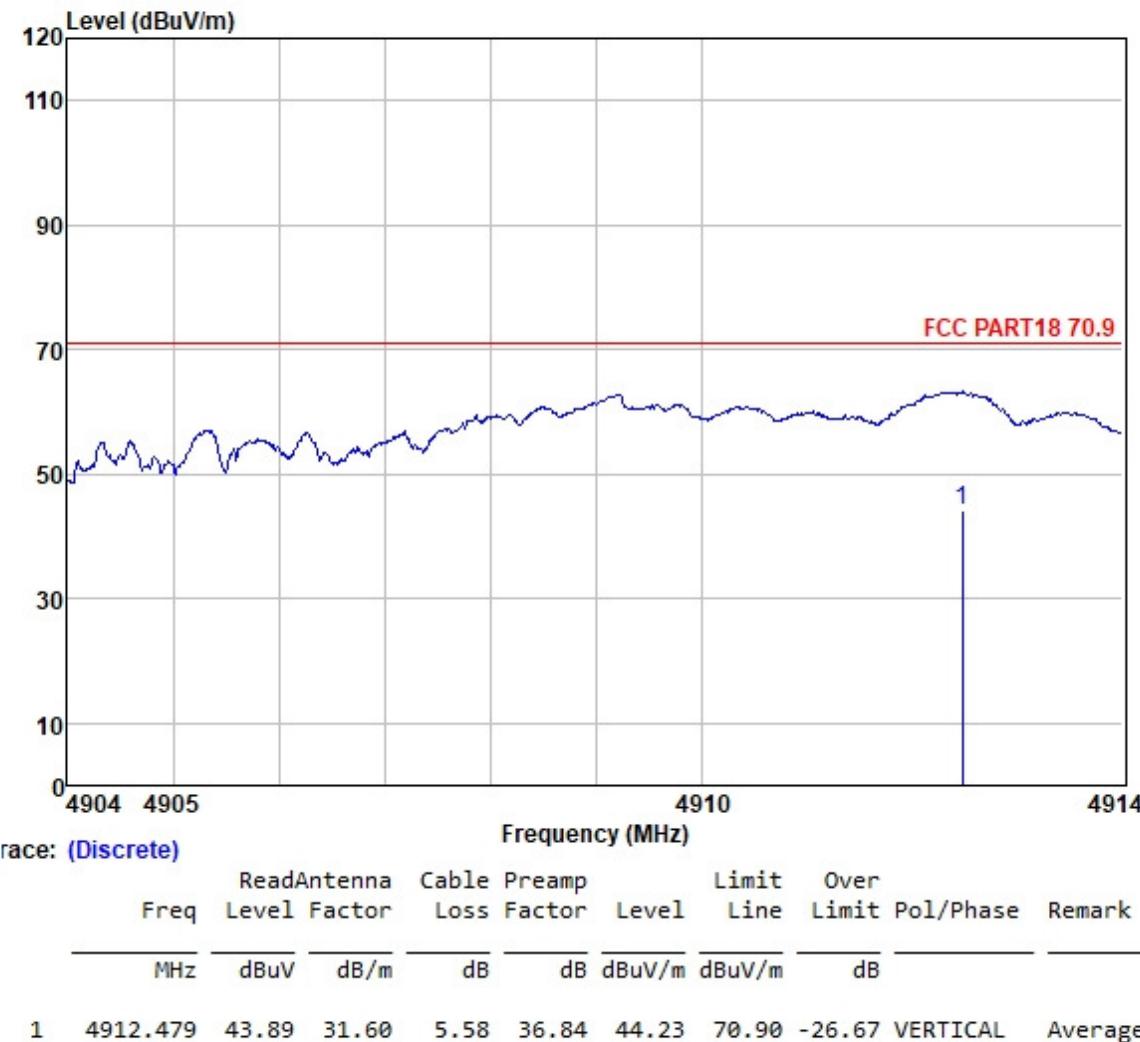
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Test Mode: 00; Polarity: Vertical



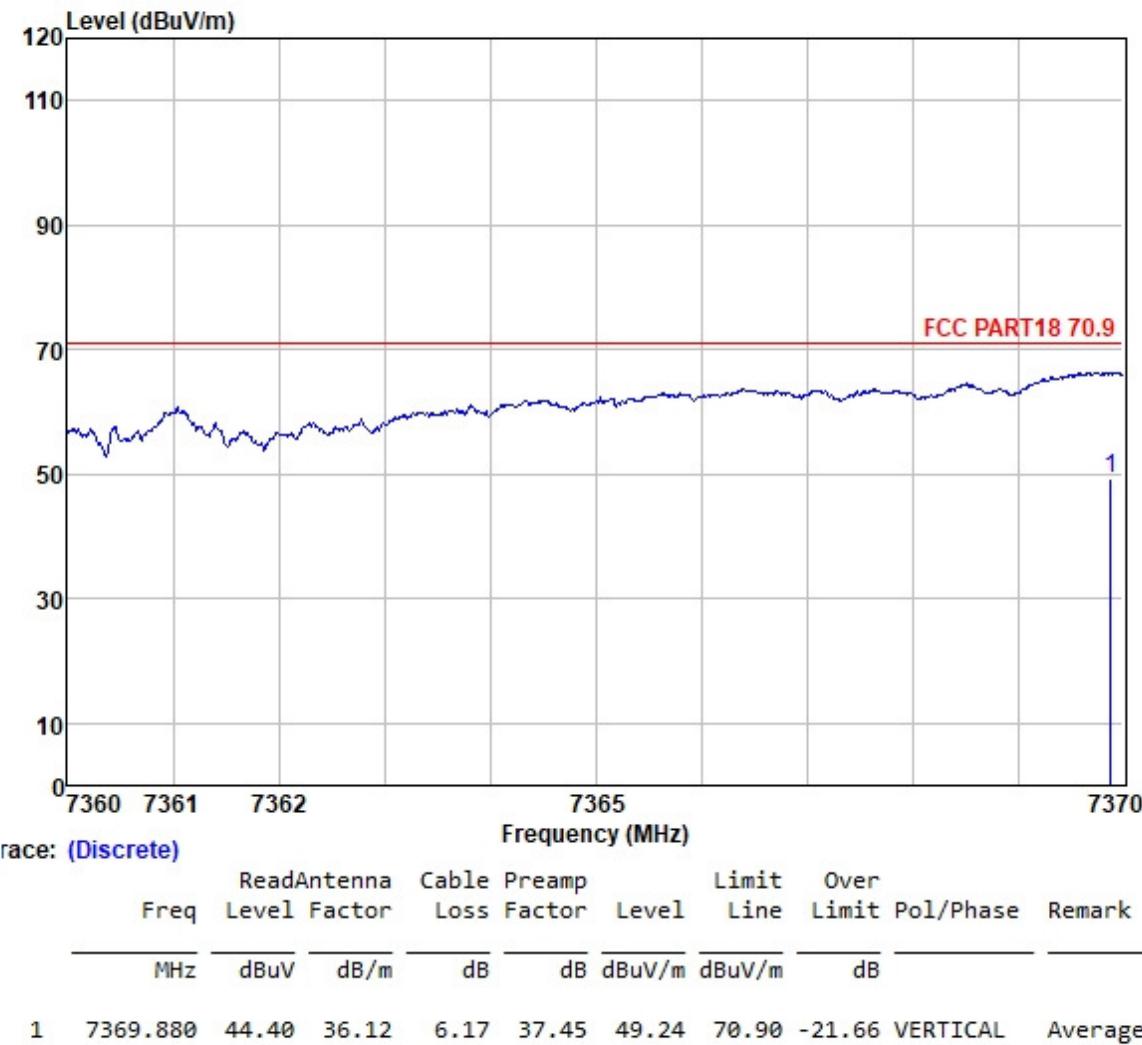
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Test Mode: 00; Polarity: Vertical



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6.6 Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 9kHz to 30MHz
Measurement Distance: 10m
Detector: Peak for pre-scan, Average for the final result
(200Hz Resolution Bandwidth for 9kHz to 150kHz;
9kHz Resolution Bandwidth for 150kHz to 30MHz)
Limit:
(a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(uV/m) @300m
Below 500	25
500 or more	25*SQRT(power/500)

Power =984.5 W according to clause 6.1.2

Limit=20lg(25*SQRT(power/500))+20lg(300/10)=**60.44dBuV/m** @ 10m distance.

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

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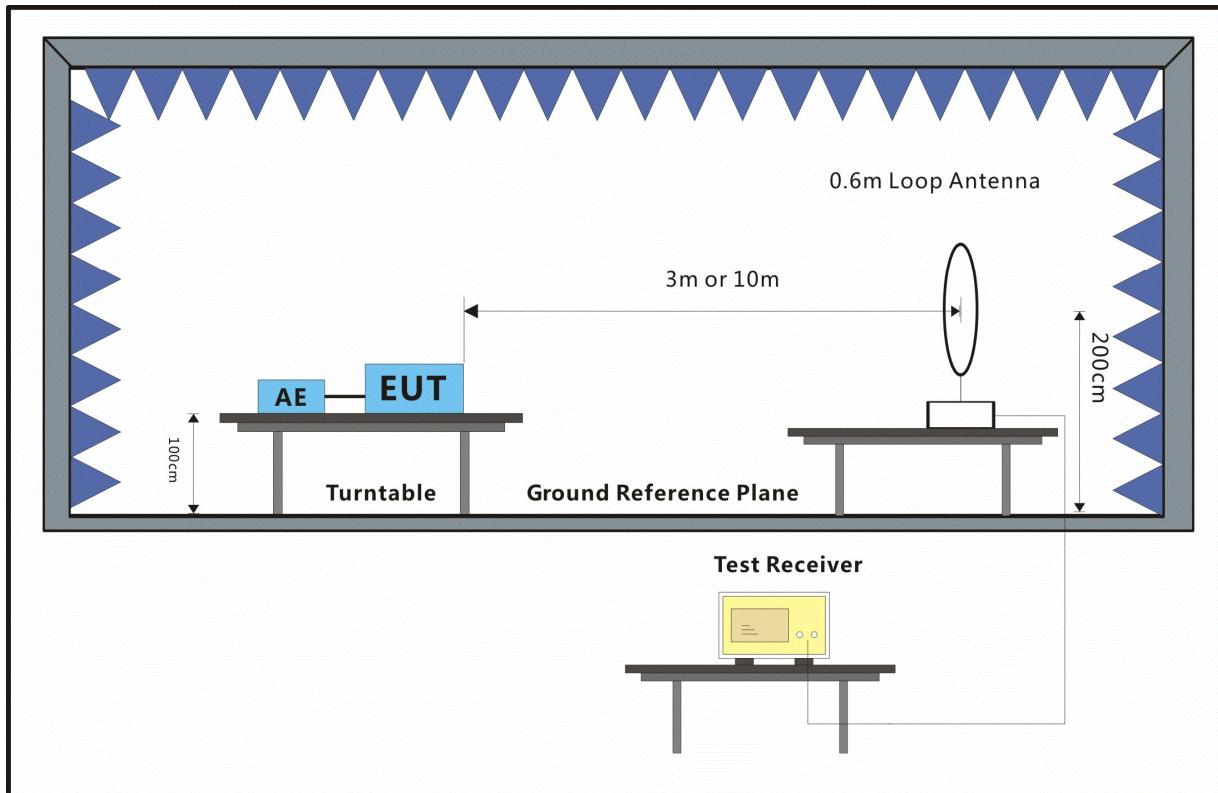
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6.6.2 Test Setup Diagram



6.6.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by loop antenna with 2 orthogonal polarities.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

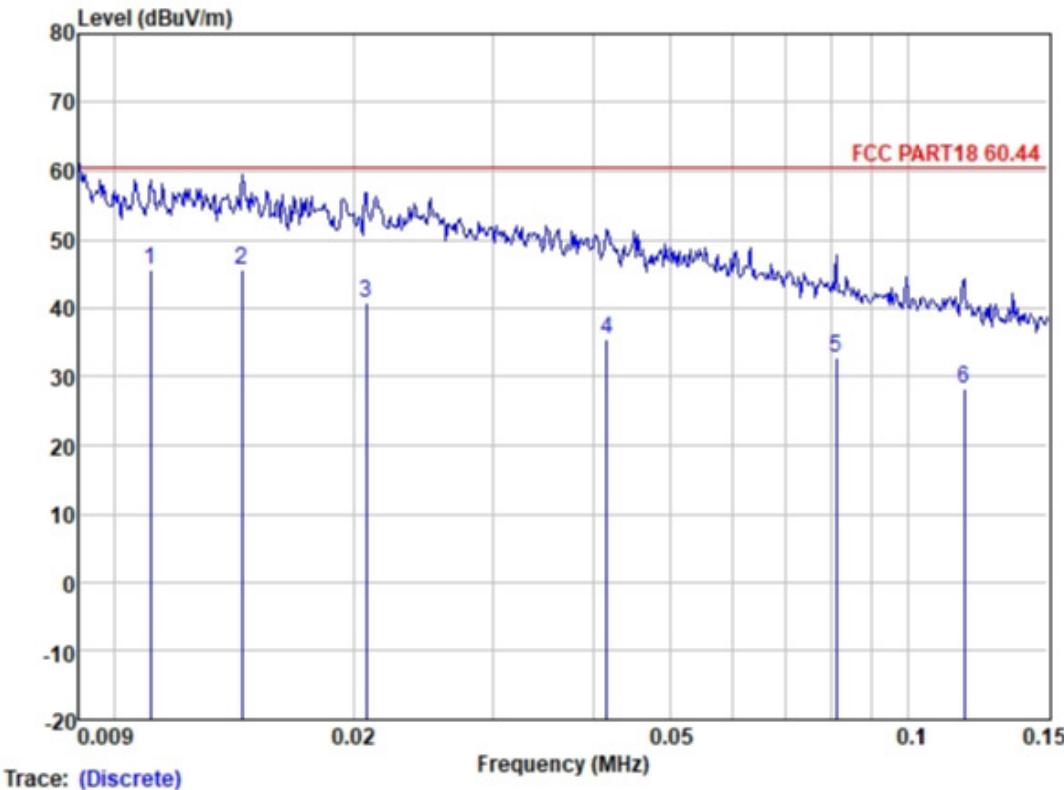
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Test Mode: 00; Polarity: Horizontal



Site : SGS
 Condition : FCC PART18 60.44 HORIZONTAL
 Job :
 Model :
 Power :
 Test Mode :
 :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	0.01	58.31	15.56	0.05	28.19	45.73	60.44	-14.71	HORIZONTAL Average
2	0.01	59.48	14.25	0.05	28.26	45.52	60.44	-14.92	HORIZONTAL Average
3	0.02	56.10	12.98	0.05	28.40	40.73	60.44	-19.71	HORIZONTAL Average
4	0.04	52.71	12.02	0.05	29.20	35.58	60.44	-24.86	HORIZONTAL Average
5	0.08	51.53	10.70	0.05	29.43	32.85	60.44	-27.59	HORIZONTAL Average
6	0.12	47.17	10.46	0.05	29.47	28.21	60.44	-32.23	HORIZONTAL Average

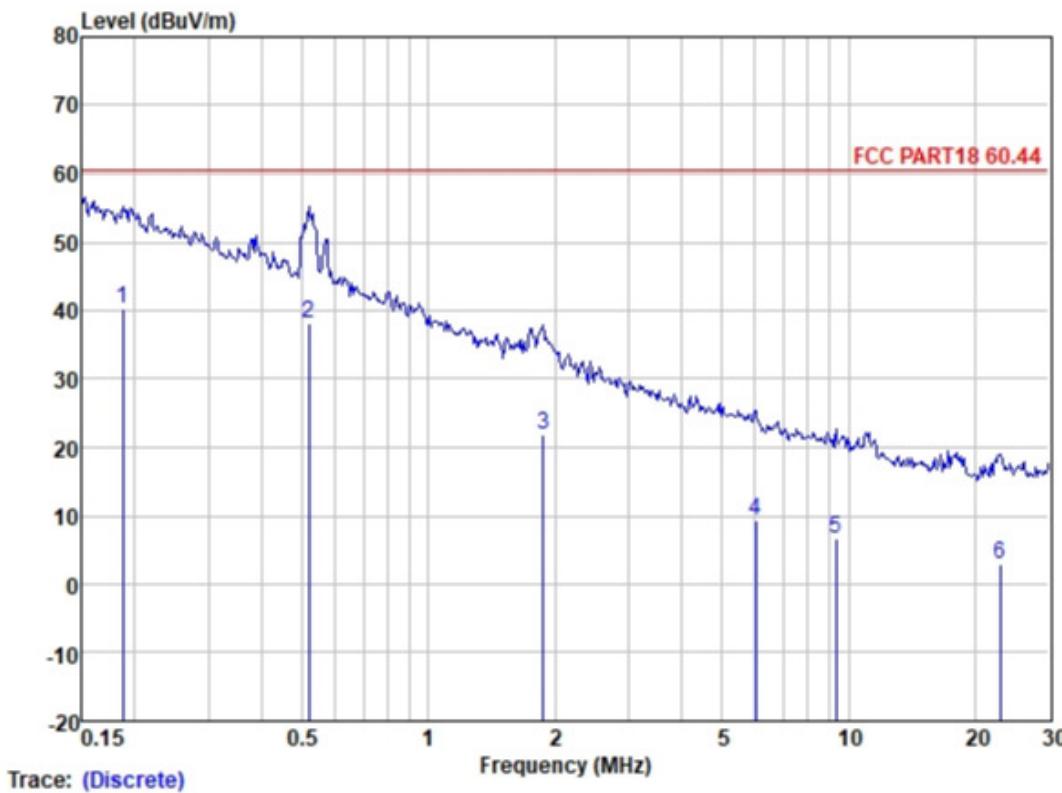
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Test Mode: 00; Polarity: Horizontal



Site : SGS
 Condition : FCC PART18 60.44 HORIZONTAL
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 0.19	58.95	10.78	0.05	29.45	40.33	60.44	-20.11	HORIZONTAL	Average
2 0.52	56.72	10.69	0.08	29.42	38.07	60.44	-22.37	HORIZONTAL	Average
3 1.88	40.15	10.97	0.19	29.38	21.93	60.44	-38.51	HORIZONTAL	Average
4 6.02	27.76	10.43	0.38	29.32	9.25	60.44	-51.19	HORIZONTAL	Average
5 9.35	25.23	10.12	0.51	29.29	6.57	60.44	-53.87	HORIZONTAL	Average
6 23.02	22.98	8.34	0.86	29.17	3.01	60.44	-57.43	HORIZONTAL	Average

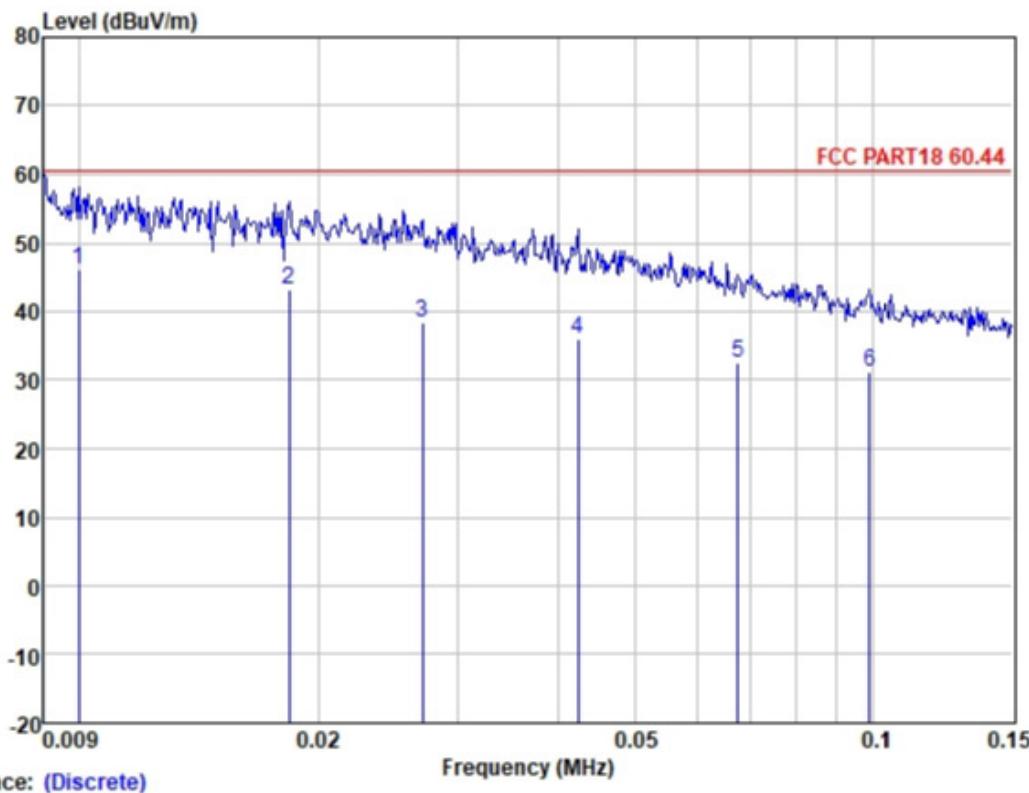
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Test Mode: 00; Polarity: Vertical



Site : SGS
 Condition : FCC PART18 60.44
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 0.01	58.18	15.94	0.05	28.17	46.00	60.44	-14.44	VERTICAL	Average
2 0.02	58.22	13.18	0.05	28.34	43.11	60.44	-17.33	VERTICAL	Average
3 0.03	54.28	12.75	0.05	28.62	38.46	60.44	-21.98	VERTICAL	Average
4 0.04	53.29	12.00	0.05	29.21	36.13	60.44	-24.31	VERTICAL	Average
5 0.07	50.46	11.33	0.05	29.38	32.46	60.44	-27.98	VERTICAL	Average
6 0.10	50.09	10.41	0.05	29.47	31.08	60.44	-29.36	VERTICAL	Average

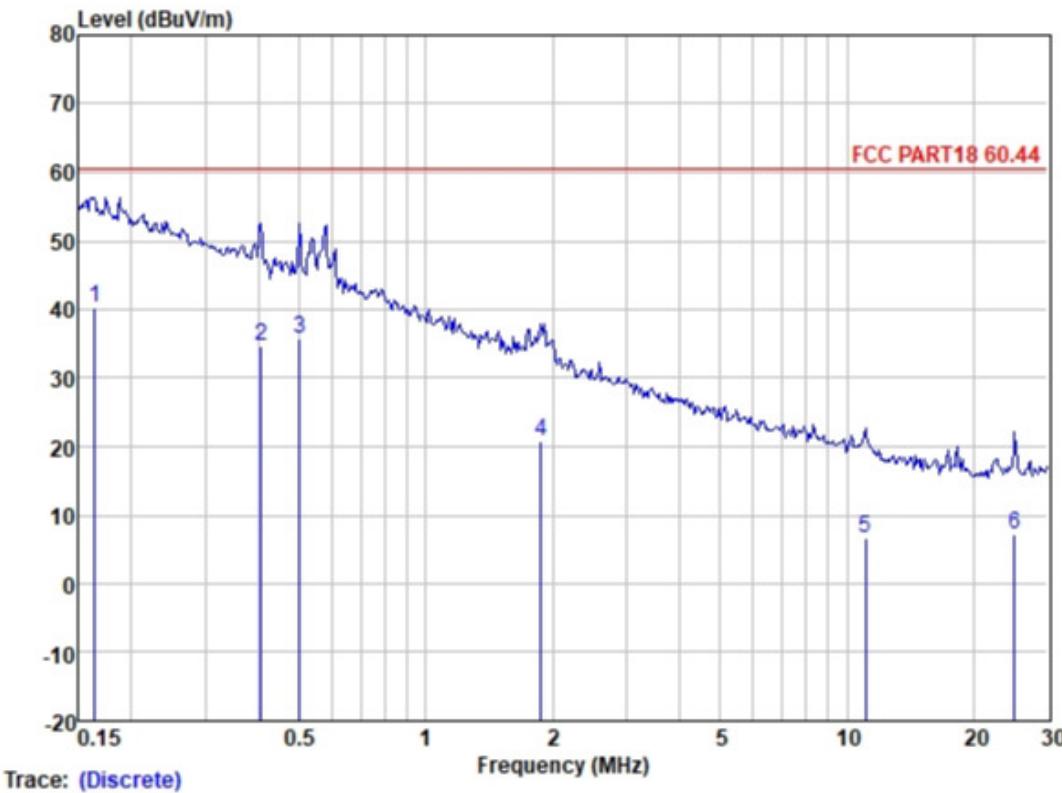
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Test Mode: 00; Polarity: Vertical



Site : SGS
 Condition : FCC PART18 60.44 VERTICAL
 Job :
 Model :
 Power :
 Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 0.16	59.07	10.72	0.05	29.45	40.39	60.44	-20.05	VERTICAL	Average
2 0.41	53.20	10.71	0.06	29.42	34.55	60.44	-25.89	VERTICAL	Average
3 0.50	54.29	10.70	0.08	29.42	35.65	60.44	-24.79	VERTICAL	Average
4 1.88	39.04	10.97	0.19	29.38	20.82	60.44	-39.62	VERTICAL	Average
5 11.08	25.49	9.87	0.54	29.28	6.62	60.44	-53.82	VERTICAL	Average
6 25.05	27.07	8.30	0.93	29.15	7.15	60.44	-53.29	VERTICAL	Average

--End of Report--



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