



Report No.: GZEM180900012201C01

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FCC ID: 2AV6USG01LP1

## TEST REPORT

**Application No.:** GZEM1905012601CR  
**Applicant:** NINGBO DEYE INVERTER TECHNOLOGY Co.,LTD  
**Address of Applicant:** No.26, YongJiang Road, Beilun, NingBo, 315806, China  
**Manufacturer:** NINGBO DEYE INVERTER TECHNOLOGY Co.,LTD  
**Address of Manufacturer:** No.26, YongJiang Road, Beilun, NingBo, 315806, China  
**Factory:** NINGBO DEYE INVERTER TECHNOLOGY Co.,LTD  
**Address of Factory:** No.26, YongJiang Road, Beilun, NingBo, 315806, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Grid Support Utility Interactive (Hybrid inverter)  
**Model No.:** SUN-8K-SG01LP1-US, SUN-8K-SG01LP1-US-B, SUN-7.6K-SG01LP1-US, SUN-7.6K-SG01LP1-US-B, SUN-5K-SG01LP1-US, SUN-5K-SG01LP1-US-B ☐  
☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** Deye  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**FCC ID:** 2AV6USG01LP1  
**Date of Receipt:** 2018-12-19  
**Date of Test:** 2019-01-30 to 2019-02-14  
**Date of Issue:** 2019-02-18 (for original report GZEM180900012201)  
2020-04-25 (for co-license report GZEM180900012201C01)

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian  
Lab Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-02-18		Original
02		2020-04-25		Co-license report: changed applicant & address of applicant, model name and trade mark.

Authorized for issue by:			
Tested By	 Curry Wu /Project Engineer	2019-01-30 to 2019-02-14 Date	
Checked By	 Ricky Liu/Reviewer	2020-04-25 Date	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass



☒ **Declaration of EUT Family Grouping:**

**Remark for original report GZEM180900012201**

**Model No.:** NV8000, NV7600, NV5000

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 model name.

Therefore only one model **NV8000** was tested in this report.

**Remark for Co-license report GZEM180900012201C01**

**This report GZEM180900012201C01 was a supplement report based on original report GZEM180900012201, only changed applicant & address of applicant, model name, trade mark.**

According to the declaration from the applicant, the models SUN-8K-SG01LP1-US, SUN-8K-SG01LP1-US-B, SUN-7.6K-SG01LP1-US, SUN-7.6K-SG01LP1-US-B, SUN-5K-SG01LP1-US,

SUN-5K-SG01LP1-US-B in this report and the model in original report were identical, only difference being the instruction manual, marking plate and packaging.

Therefore, original report data were kept in this report GZEM180900012201C01.







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## 4 General Information

### 4.1 Details of E.U.T.

Test Voltage:	Input DC 50V Output AC 120V 60Hz
Antenna Gain	0dBi
Antenna Type	Dedicated antenna
Channel Spacing	5MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels	802.11b/g/n(HT20):11 802.11n(HT40):7
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz

### 4.2 Description of Support Units

The EUT has been tested with corresponding accessories as below:

Supplied by SGS:

Description	Manufacturer	Model No.	SN/Certificate NO
DC Power Supply	APC	ADG-L-160-50	D118070003

### 4.3 Measurement Uncertainty

RF

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.5 \times 10^{-8}$
2	Duty cycle	$\pm 0.57\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF Conducted power	$\pm 0.68\text{dB}$
5	RF Power Density	$\pm 1.50\text{dB}$
6	Conducted Spurious Emissions	$\pm 1.04\text{dB}$
7	RF Radiated Power	$\pm 4.5\text{dB}$ (below 1GHz) $\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious Emission Test	$\pm 4.5\text{dB}$ (30MHz-1GHz) $\pm 4.8\text{dB}$ (1GHz-18GHz)
9	Temperature	$\pm 0.4^{\circ}\text{C}$
10	Humidity	$\pm 1.3\%$
11	Supply Voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
Guangzhou, China 510663

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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-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 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-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-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-10449 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 17025:2005, 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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# SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	R&S	ENV216	EMC0118	2019-01-11	2020-01-10
LISN	R&S	ENV216	EMC2135	2018-09-21	2019-09-20
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2018-11-19	2019-11-18
Coaxial Cable	HangTianXing	2m	EMC0107	2017-07-23	2019-07-22
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI Cable	SGS	N/A	EMC2136	2018-11-02	2019-11-01
MI Cable	SGS	N/A	EMC2137	2018-11-02	2019-11-01

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI Cable	SGS	N/A	EMC2136	2018-11-02	2019-11-01
MI Cable	SGS	N/A	EMC2137	2018-11-02	2019-11-01



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Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI Cable	SGS	N/A	EMC2136	2018-11-02	2019-11-01
MI Cable	SGS	N/A	EMC2137	2018-11-02	2019-11-01

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI Cable	SGS	N/A	EMC2136	2018-11-02	2019-11-01
MI Cable	SGS	N/A	EMC2137	2018-11-02	2019-11-01

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI Cable	SGS	N/A	EMC2136	2018-11-02	2019-11-01
MI Cable	SGS	N/A	EMC2137	2018-11-02	2019-11-01



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-02-24	2019-02-23
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-02-24	2019-02-23
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18



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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 & 15.247(c)

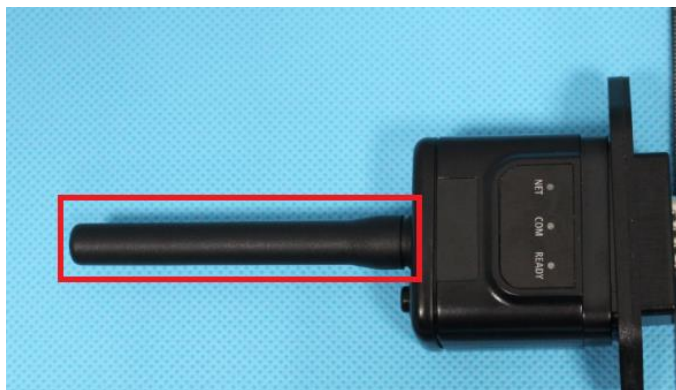
#### 6.1.2 Conclusion

Standard 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



EUT Antenna:

The antenna is dedicated and no consideration of replacement. The best case gain of the antenna is 0dBi.

## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)  
Test Method: ANSI C63.10 (2013) Section 6.2  
Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.



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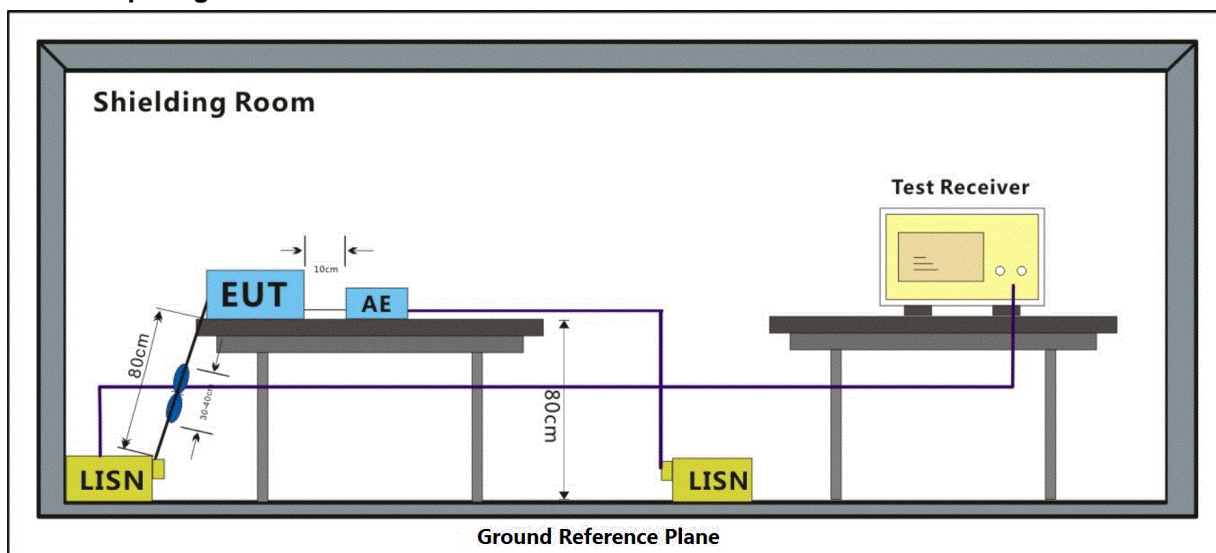
### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C Humidity: 60.1 % RH Atmospheric Pressure: 1020 mbar

Test mode: a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 7.1.2 Test Setup Diagram





### 7.1.3 Measurement Procedure and Data

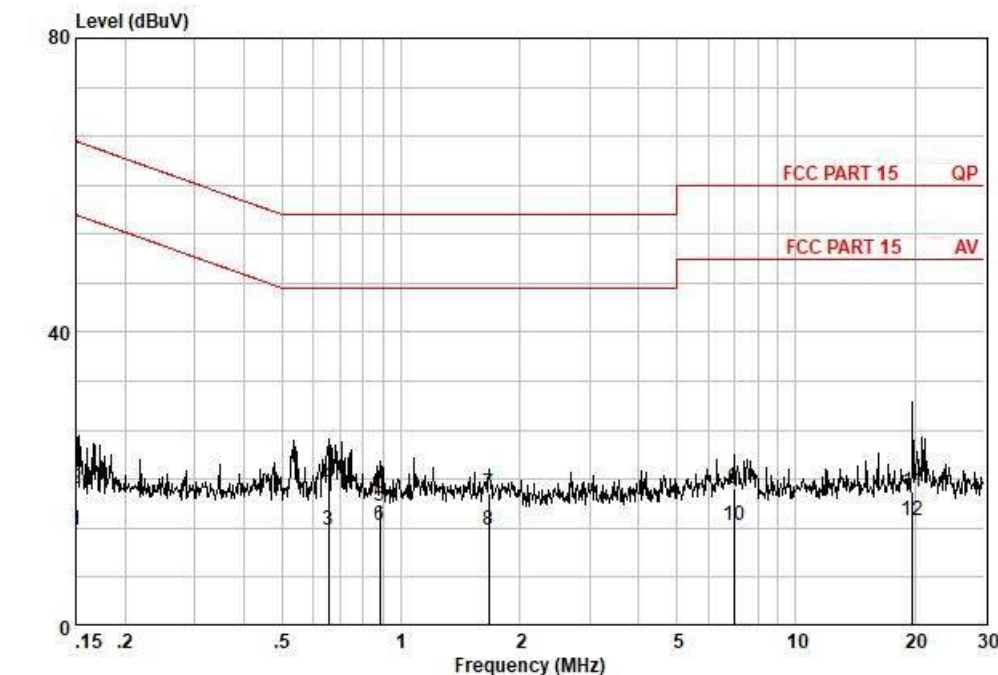
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor





Live Line:



Pol : LIVE  
No :  
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.15	3.41	0.10	9.67	13.18	59.00	-45.82	AVERAGE
0.15	9.06	0.10	9.67	18.83	66.00	-47.17	QP
0.65	3.22	0.10	9.67	12.99	46.00	-33.01	AVERAGE
0.65	9.36	0.10	9.67	19.13	56.00	-36.87	QP
0.88	6.56	0.10	9.67	16.33	56.00	-39.67	QP
0.88	3.96	0.10	9.67	13.73	46.00	-32.27	AVERAGE
1.67	8.33	0.10	9.68	18.11	56.00	-37.89	QP
1.67	3.21	0.10	9.68	12.99	46.00	-33.01	AVERAGE
6.95	8.72	0.29	9.74	18.75	60.00	-41.25	QP
6.95	3.76	0.29	9.74	13.79	50.00	-36.21	AVERAGE
19.74	8.09	0.40	9.84	18.33	60.00	-41.67	QP
19.74	4.06	0.40	9.84	14.30	50.00	-35.70	AVERAGE

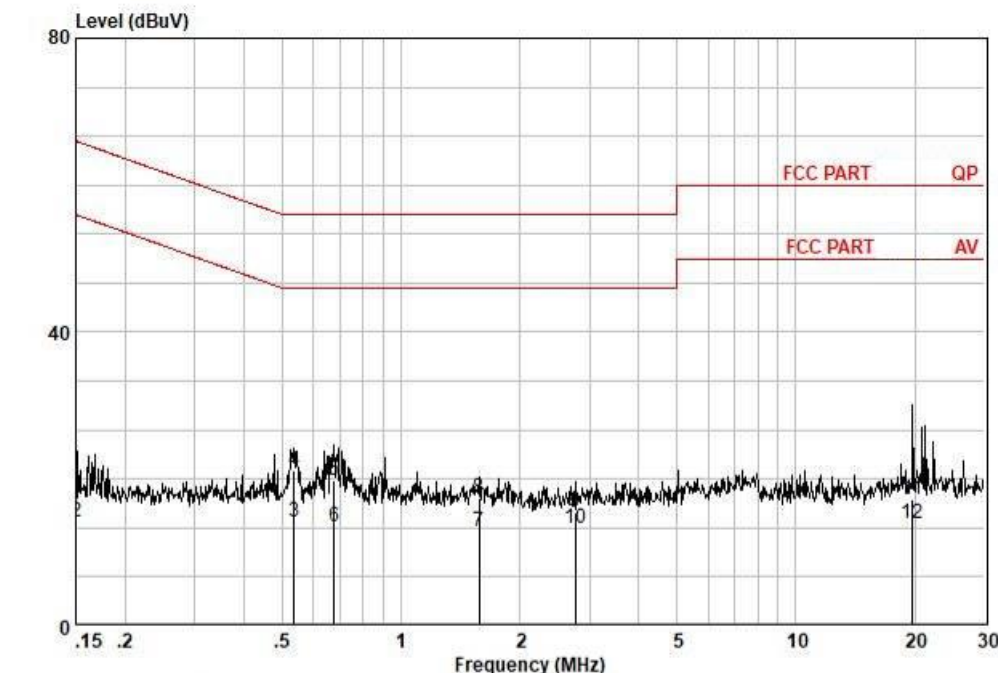


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Neutral Line:



Pol : NEUTRAL  
No :  
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.15	7.57	0.10	9.58	17.25	66.00	-48.75	QP
0.15	4.45	0.10	9.58	14.13	59.00	-44.87	AVERAGE
0.53	4.50	0.10	9.60	14.20	46.00	-31.80	AVERAGE
0.53	11.42	0.10	9.60	21.12	56.00	-34.88	QP
0.68	10.20	0.10	9.60	19.90	56.00	-36.10	QP
0.68	3.84	0.10	9.60	13.54	46.00	-32.46	AVERAGE
1.58	3.17	0.10	9.61	12.88	46.00	-33.12	AVERAGE
1.58	7.74	0.10	9.61	17.45	56.00	-38.55	QP
2.76	5.62	0.18	9.62	15.42	56.00	-40.58	QP
2.76	3.51	0.18	9.62	13.31	46.00	-32.69	AVERAGE
19.74	6.93	0.40	9.95	17.18	60.00	-42.82	QP
19.74	3.63	0.40	9.95	13.98	50.00	-36.02	AVERAGE



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## 7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)  
Test Method: ANSI C63.10 (2013) Section 11.8.1  
Limit:  $\geq 500$  kHz

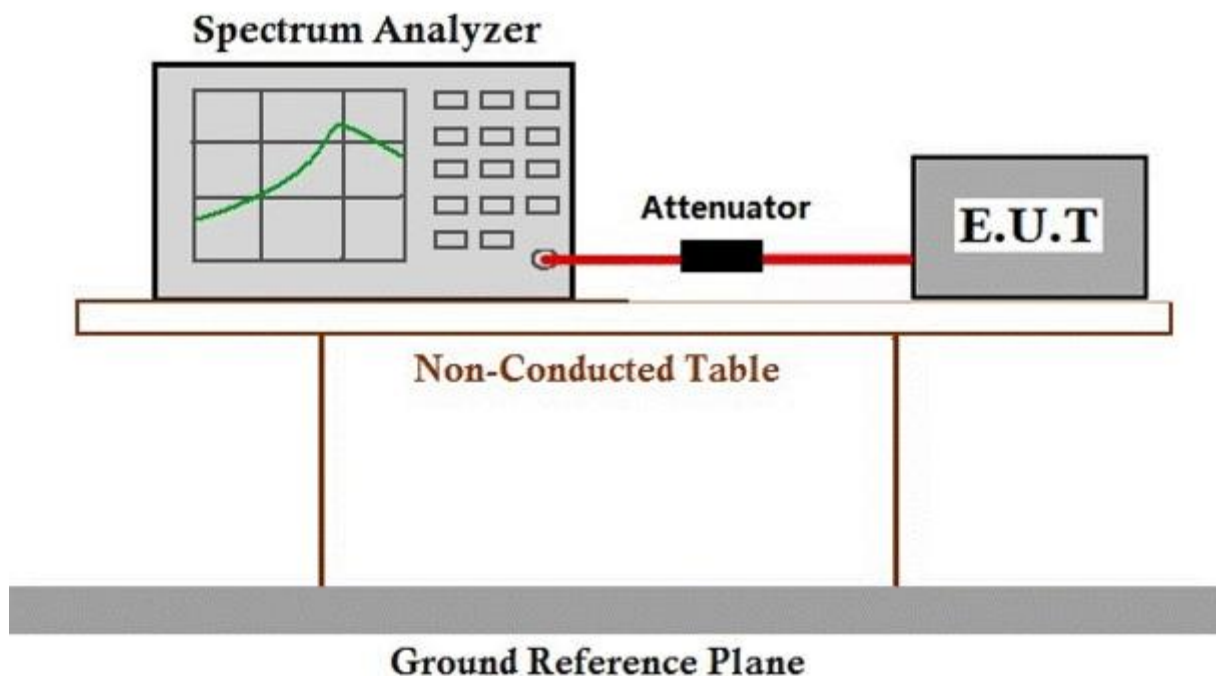
### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C Humidity: 56.4 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 7.2.2 Test Setup Diagram



### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

### 7.3 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)  
Test Method: ANSI C63.10 (2013) Section 11.9.1  
Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation



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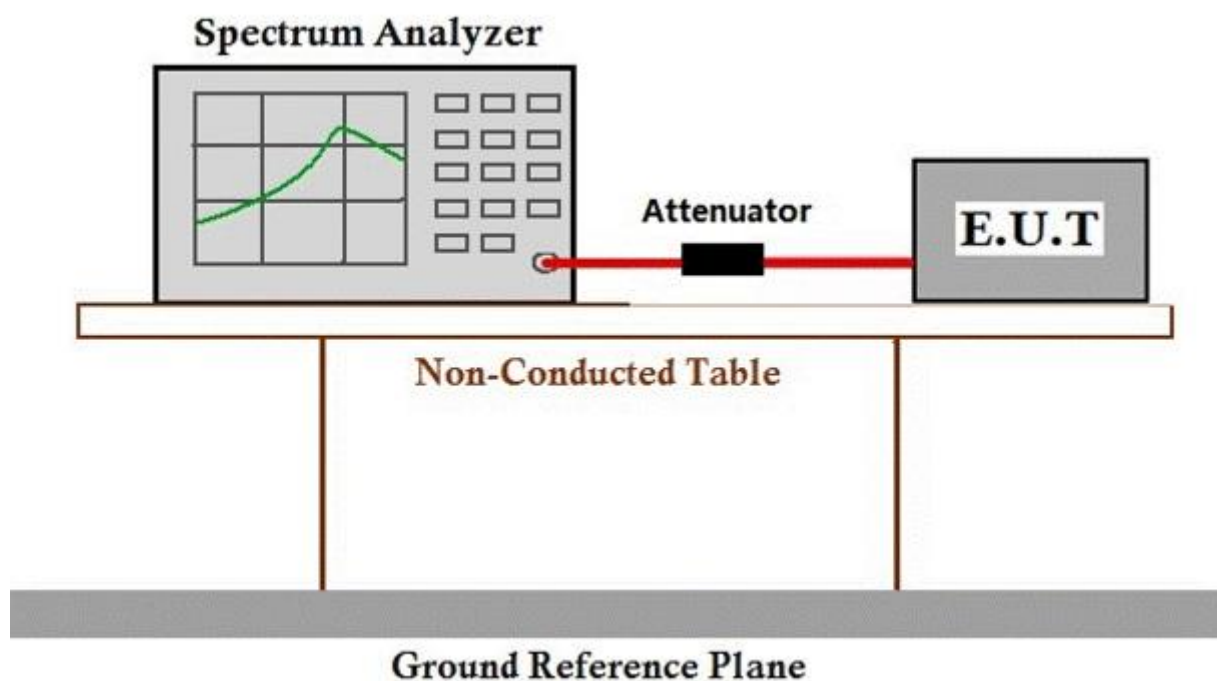
### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 7.3.2 Test Setup Diagram



### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



## 7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)  
Test Method: ANSI C63.10 (2013) Section 11.10.2  
Limit:  $\leq 8\text{dBm}$  in any 3 kHz band during any time interval of continuous transmission

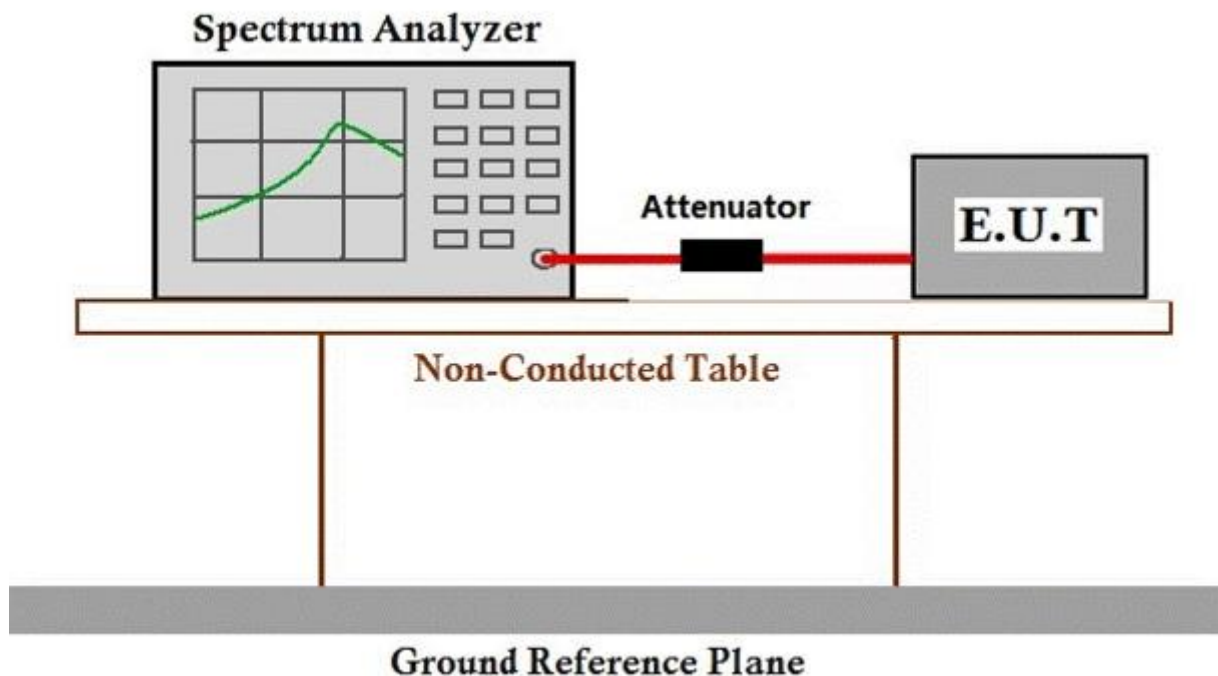
### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C Humidity: 56.4 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 7.4.2 Test Setup Diagram



### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



## 7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



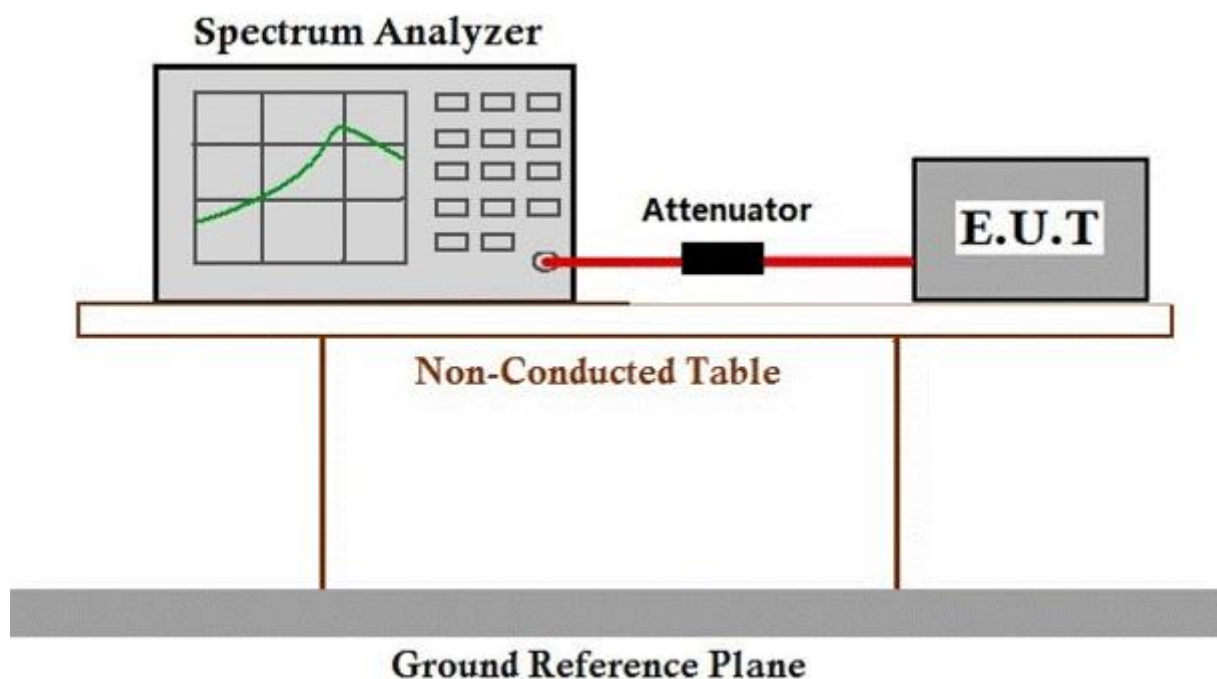
### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C Humidity: 56.4 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 7.5.2 Test Setup Diagram



### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

## 7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))





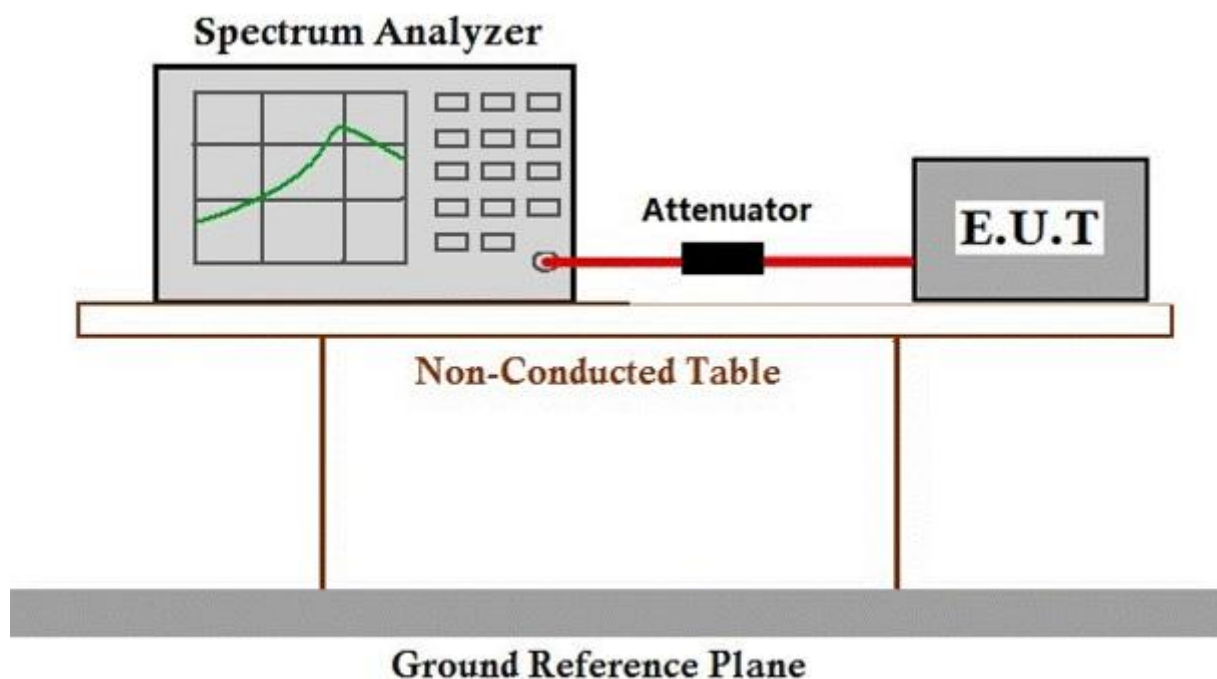
### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C Humidity: 56.4 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 7.6.2 Test Setup Diagram



### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247





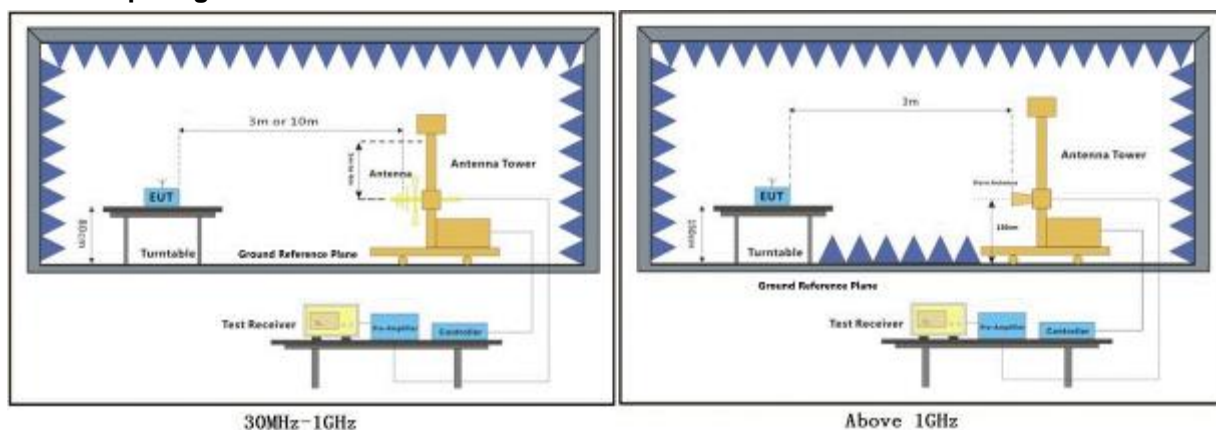
### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 56.4 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 7.7.2 Test Setup Diagram





### 7.7.3 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 above 1GHz, 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.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.

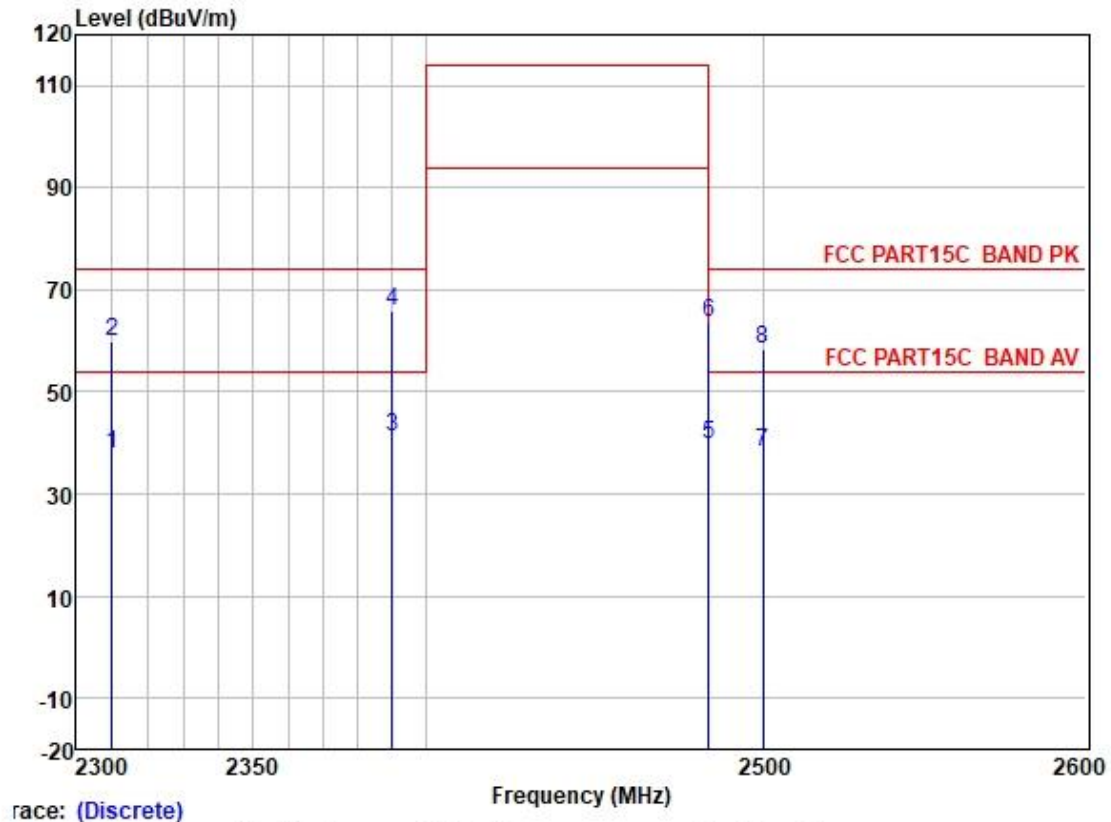
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.

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



Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low

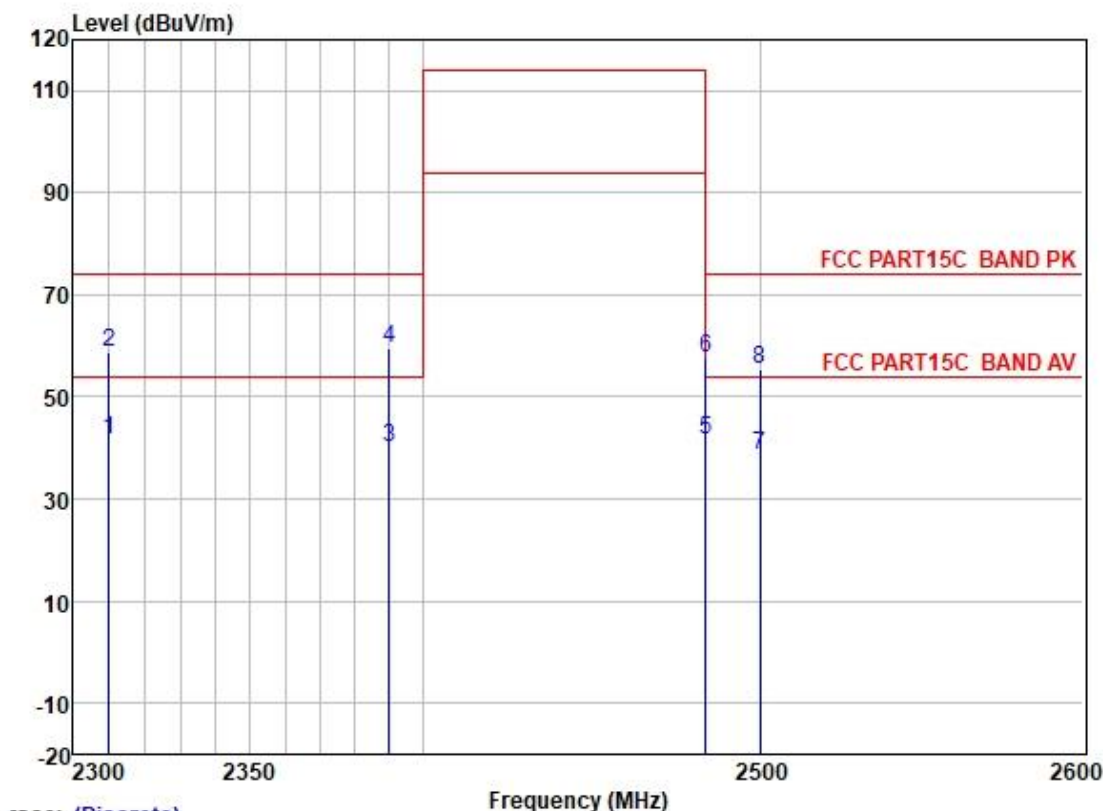


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamplifier	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	44.03	26.25	5.03	37.44	37.87	54.00	-16.13	HORIZONTAL Average
2	2310.000	65.89	26.25	5.03	37.44	59.73	74.00	-14.27	HORIZONTAL Peak
3	2390.000	47.21	26.43	4.88	37.42	41.10	54.00	-12.90	HORIZONTAL Average
4	2390.000	71.84	26.43	4.88	37.42	65.73	74.00	-8.27	HORIZONTAL Peak
5	2483.500	45.36	26.58	5.23	37.40	39.77	54.00	-14.23	HORIZONTAL Average
6	2483.500	69.15	26.58	5.23	37.40	63.56	74.00	-10.44	HORIZONTAL Peak
7	2500.000	43.95	26.60	4.95	37.39	38.11	54.00	-15.89	HORIZONTAL Average
8	2500.000	64.42	26.60	4.95	37.39	58.58	74.00	-15.42	HORIZONTAL Peak



Mode:a: Polarization:Vertical: Modulation:b: bandwidth:20MHz: Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	47.87	26.25	5.03	37.44	41.71	54.00	-12.29	VERTICAL	Average
2	2310.000	64.91	26.25	5.03	37.44	58.75	74.00	-15.25	VERTICAL	Peak
3	2390.000	46.38	26.43	4.88	37.42	40.27	54.00	-13.73	VERTICAL	Average
4	2390.000	65.63	26.43	4.88	37.42	59.52	74.00	-14.48	VERTICAL	Peak
5	2483.500	47.06	26.58	5.23	37.40	41.47	54.00	-12.53	VERTICAL	Average
6	2483.500	63.06	26.58	5.23	37.40	57.47	74.00	-16.53	VERTICAL	Peak
7	2500.000	44.27	26.60	4.95	37.39	38.43	54.00	-15.57	VERTICAL	Average
8	2500.000	61.35	26.60	4.95	37.39	55.51	74.00	-18.49	VERTICAL	Peak



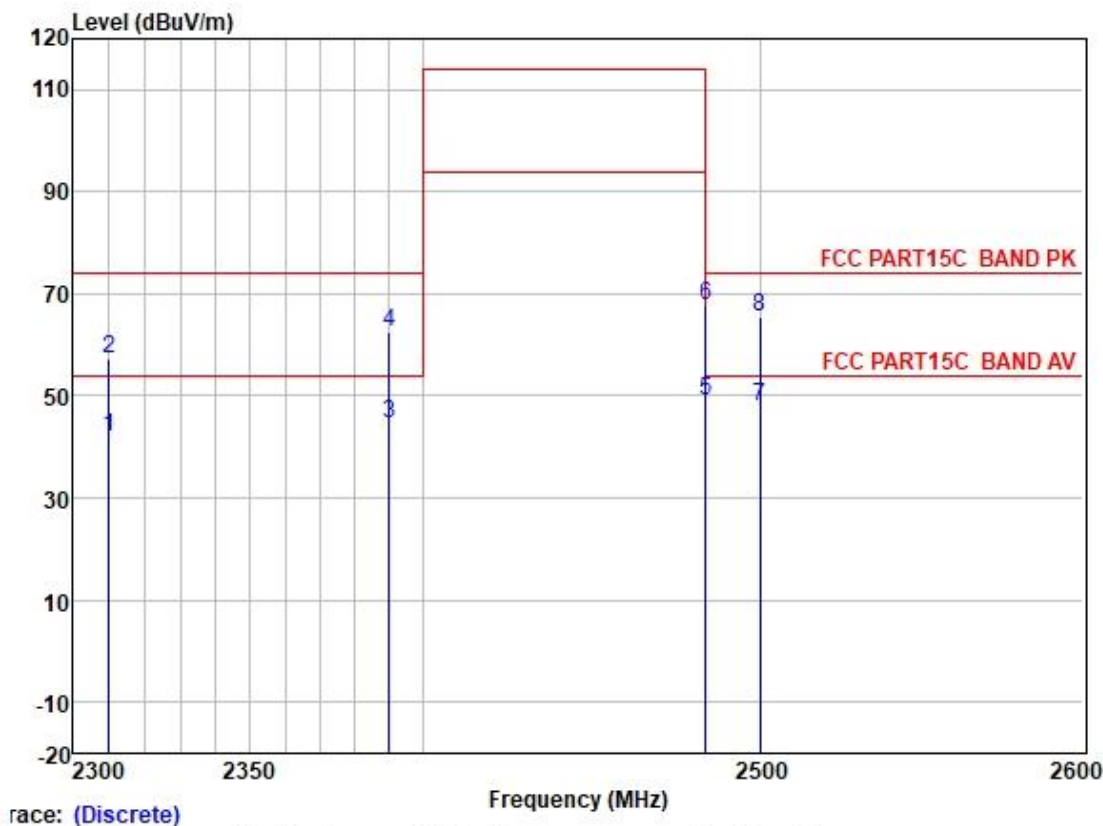
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Mode:a: Polarization:Horizontal: Modulation:b: bandwidth:20MHz: Channel:High



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	48.24	26.25	5.03	37.44	42.08	54.00	-11.92	HORIZONTAL	Average
2	2310.000	63.54	26.25	5.03	37.44	57.38	74.00	-16.62	HORIZONTAL	Peak
3	2390.000	50.56	26.43	4.88	37.42	44.45	54.00	-9.55	HORIZONTAL	Average
4	2390.000	68.49	26.43	4.88	37.42	62.38	74.00	-11.62	HORIZONTAL	Peak
5	2483.500	54.64	26.58	5.23	37.40	49.05	54.00	-4.95	HORIZONTAL	Average
6	2483.500	73.30	26.58	5.23	37.40	67.71	74.00	-6.29	HORIZONTAL	Peak
7	2500.000	53.95	26.60	4.95	37.39	48.11	54.00	-5.89	HORIZONTAL	Average
8	2500.000	71.27	26.60	4.95	37.39	65.43	74.00	-8.57	HORIZONTAL	Peak



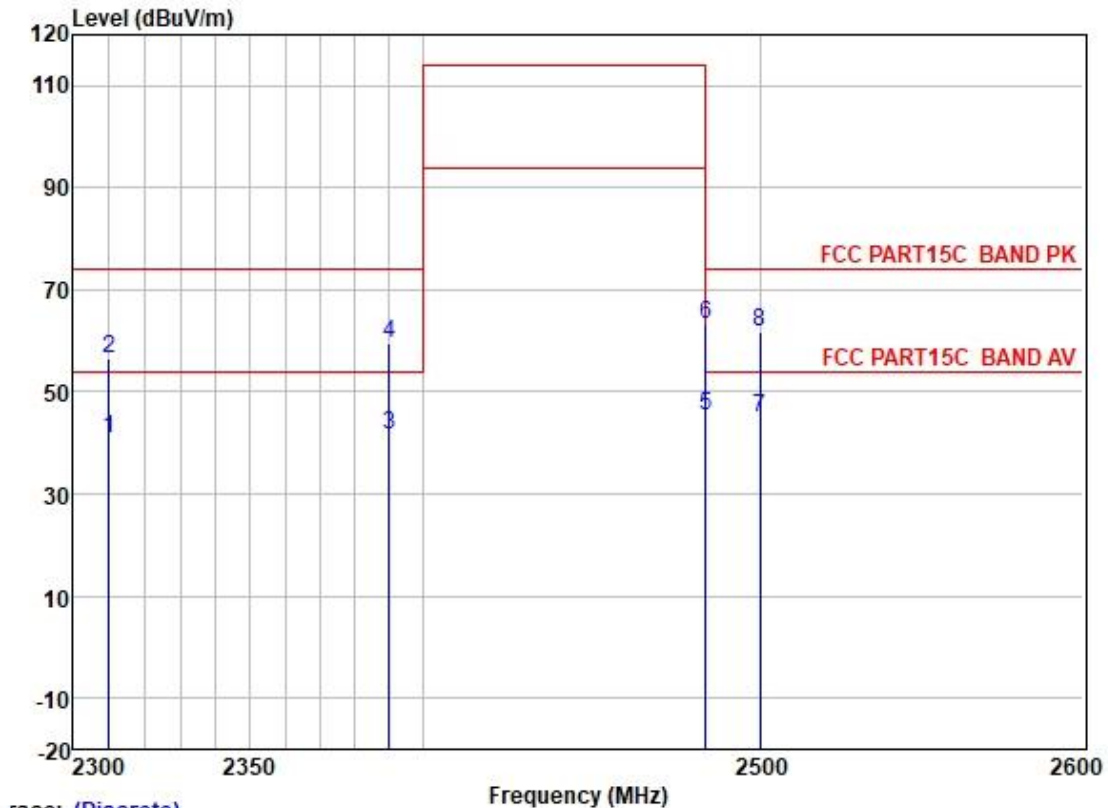
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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	47.19	26.25	5.03	37.44	41.03	54.00	-12.97	VERTICAL
2	2310.000	62.58	26.25	5.03	37.44	56.42	74.00	-17.58	VERTICAL
3	2390.000	47.76	26.43	4.88	37.42	41.65	54.00	-12.35	VERTICAL
4	2390.000	65.68	26.43	4.88	37.42	59.57	74.00	-14.43	VERTICAL
5	2483.500	51.00	26.58	5.23	37.40	45.41	54.00	-8.59	VERTICAL
6	2483.500	68.82	26.58	5.23	37.40	63.23	74.00	-10.77	VERTICAL
7	2500.000	50.80	26.60	4.95	37.39	44.96	54.00	-9.04	VERTICAL
8	2500.000	67.76	26.60	4.95	37.39	61.92	74.00	-12.08	VERTICAL



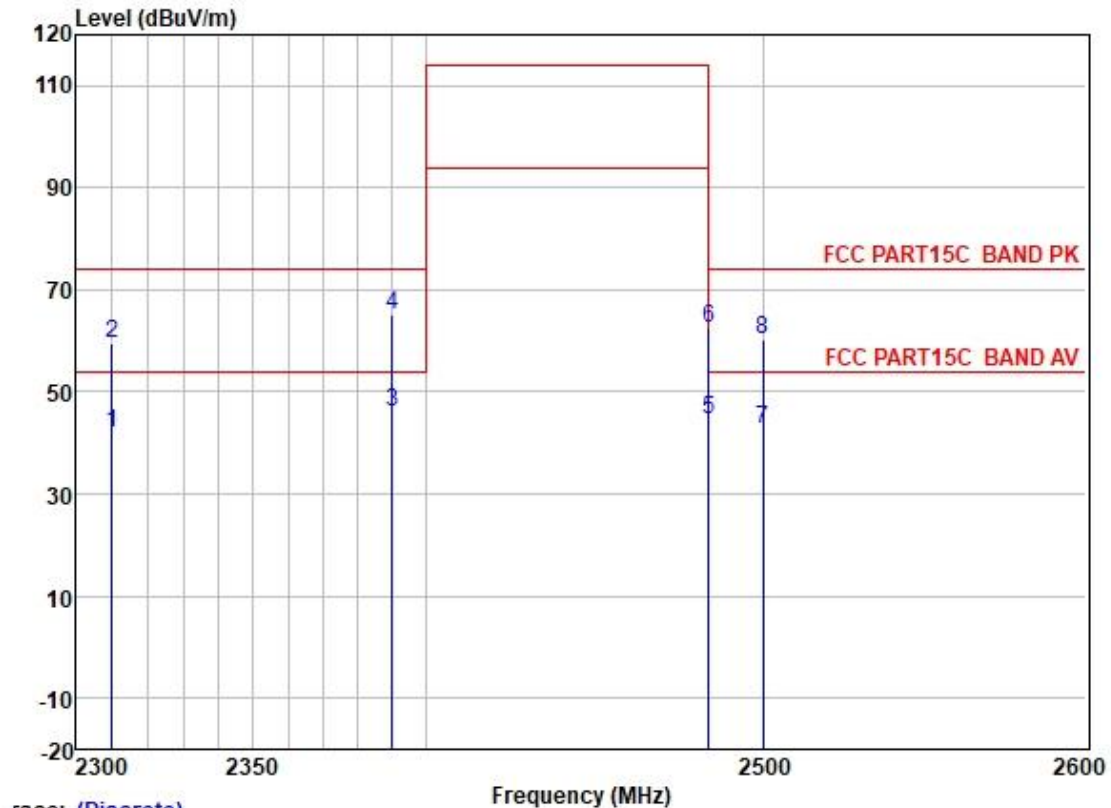
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	48.30	26.25	5.03	37.44	42.14	54.00	-11.86	HORIZONTAL Average
2	2310.000	65.65	26.25	5.03	37.44	59.49	74.00	-14.51	HORIZONTAL Peak
3	2390.000	52.27	26.43	4.88	37.42	46.16	54.00	-7.84	HORIZONTAL Average
4	2390.000	71.14	26.43	4.88	37.42	65.03	74.00	-8.97	HORIZONTAL Peak
5	2483.500	50.31	26.58	5.23	37.40	44.72	54.00	-9.28	HORIZONTAL Average
6	2483.500	67.94	26.58	5.23	37.40	62.35	74.00	-11.65	HORIZONTAL Peak
7	2500.000	48.66	26.60	4.95	37.39	42.82	54.00	-11.18	HORIZONTAL Average
8	2500.000	66.24	26.60	4.95	37.39	60.40	74.00	-13.60	HORIZONTAL Peak



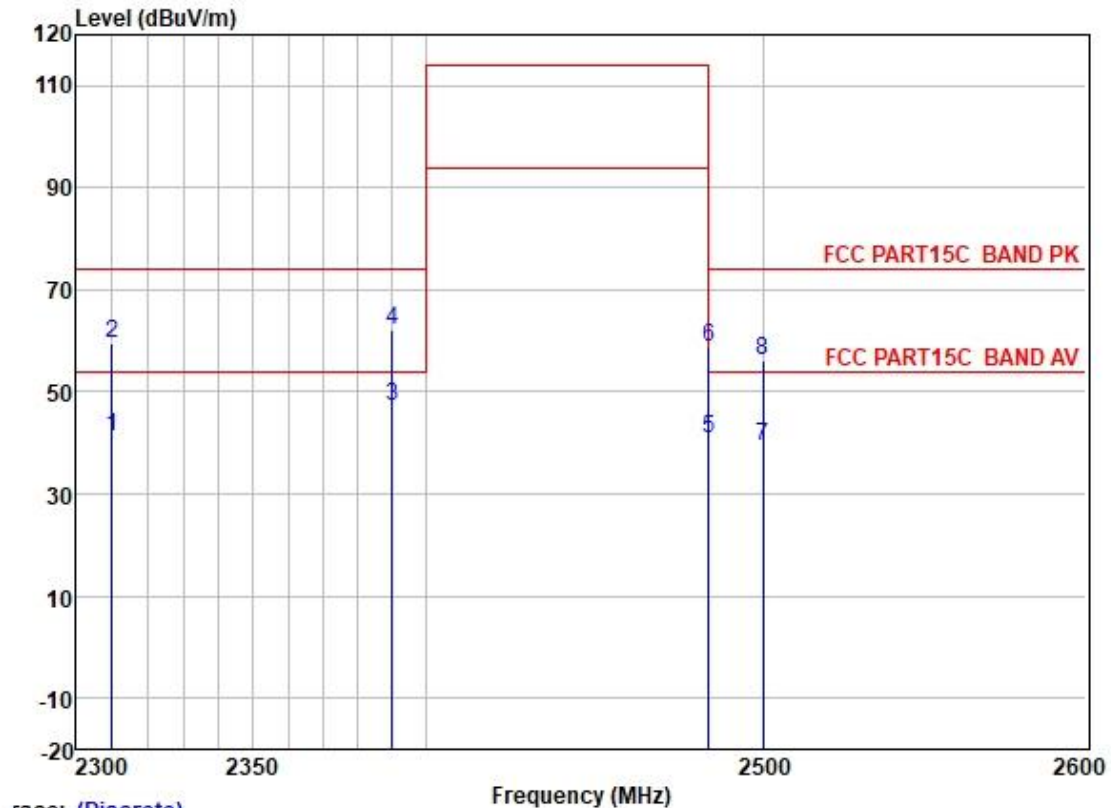
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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	47.43	26.25	5.03	37.44	41.27	54.00	-12.73	VERTICAL
2	2310.000	65.62	26.25	5.03	37.44	59.46	74.00	-14.54	VERTICAL
3	2390.000	53.22	26.43	4.88	37.42	47.11	54.00	-6.89	VERTICAL
4	2390.000	68.36	26.43	4.88	37.42	62.25	74.00	-11.75	VERTICAL
5	2483.500	46.48	26.58	5.23	37.40	40.89	54.00	-13.11	VERTICAL
6	2483.500	64.54	26.58	5.23	37.40	58.95	74.00	-15.05	VERTICAL
7	2500.000	45.12	26.60	4.95	37.39	39.28	54.00	-14.72	VERTICAL
8	2500.000	61.93	26.60	4.95	37.39	56.09	74.00	-17.91	VERTICAL

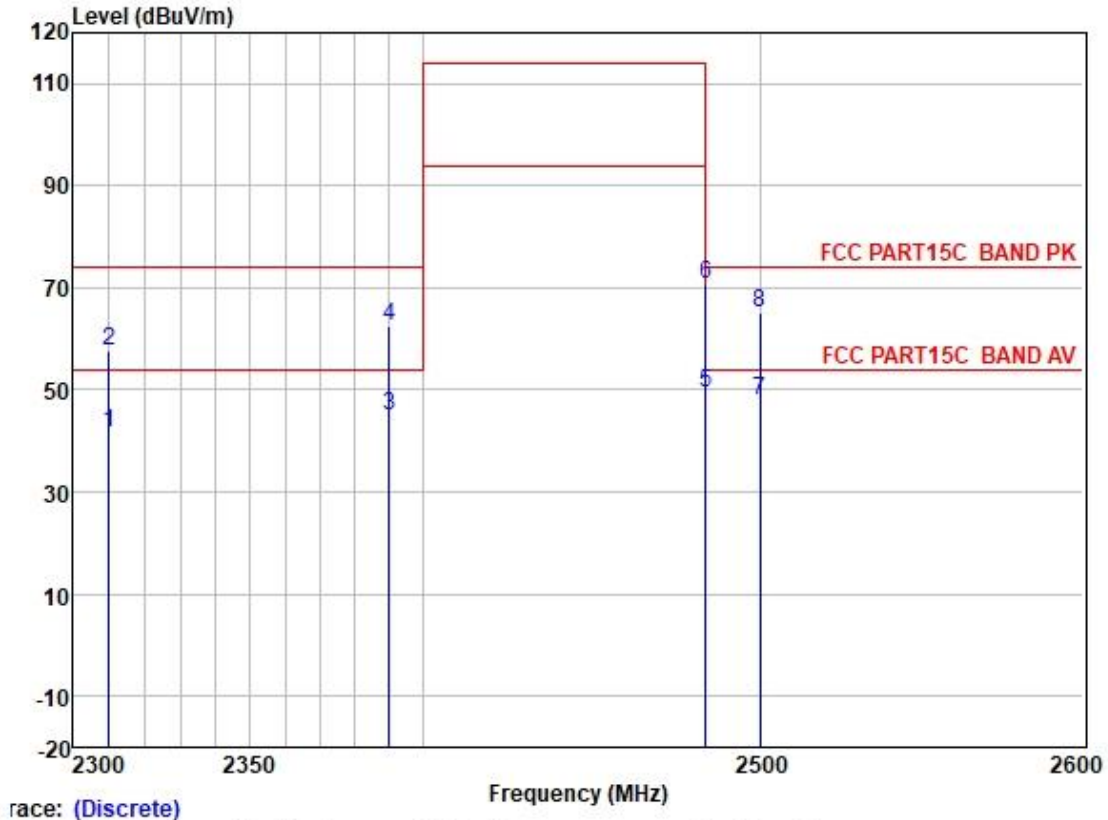


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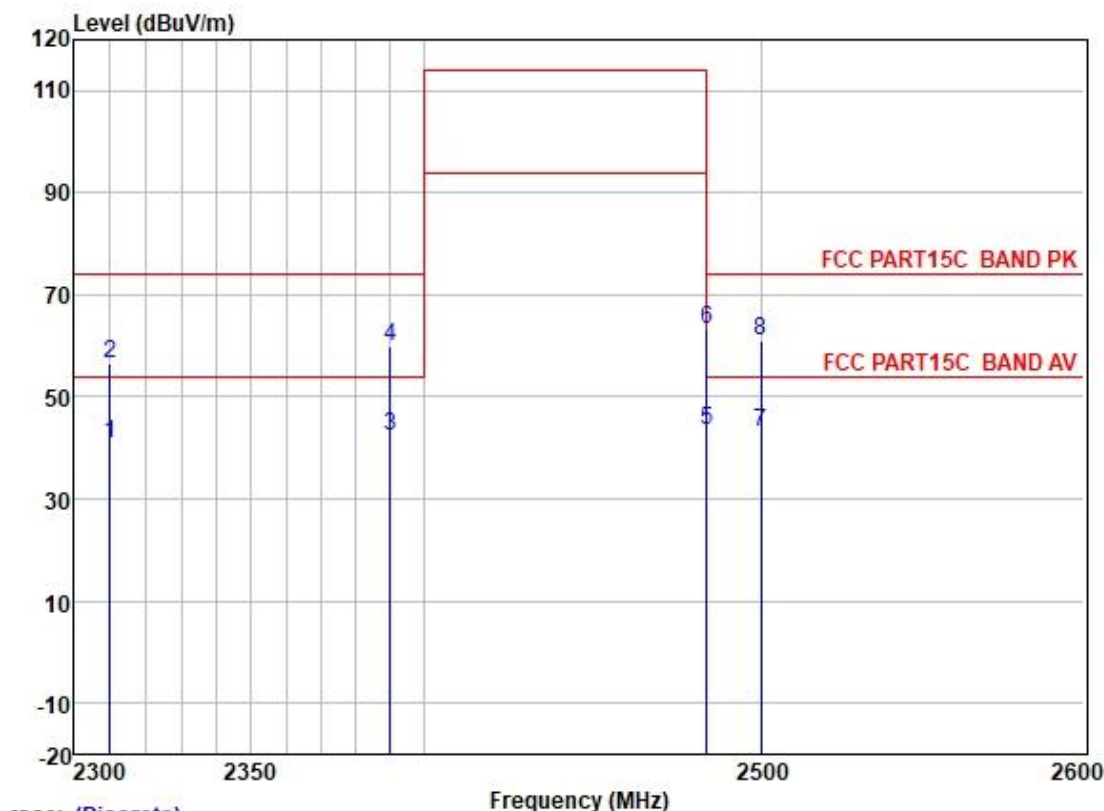
Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	47.85	26.25	5.03	37.44	41.69	54.00	-12.31	HORIZONTAL	Average
2	2310.000	63.81	26.25	5.03	37.44	57.65	74.00	-16.35	HORIZONTAL	Peak
3	2390.000	50.95	26.43	4.88	37.42	44.84	54.00	-9.16	HORIZONTAL	Average
4	2390.000	68.59	26.43	4.88	37.42	62.48	74.00	-11.52	HORIZONTAL	Peak
5	2483.500	55.18	26.58	5.23	37.40	49.59	54.00	-4.41	HORIZONTAL	Average
6	2483.500	76.13	26.58	5.23	37.40	70.54	74.00	-3.46	HORIZONTAL	Peak
7	2500.000	53.60	26.60	4.95	37.39	47.76	54.00	-6.24	HORIZONTAL	Average
8	2500.000	70.84	26.60	4.95	37.39	65.00	74.00	-9.00	HORIZONTAL	Peak

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	47.08	26.25	5.03	37.44	40.92	54.00	-13.08	VERTICAL
2	2310.000	62.64	26.25	5.03	37.44	56.48	74.00	-17.52	VERTICAL
3	2390.000	48.54	26.43	4.88	37.42	42.43	54.00	-11.57	VERTICAL
4	2390.000	66.08	26.43	4.88	37.42	59.97	74.00	-14.03	VERTICAL
5	2483.500	48.99	26.58	5.23	37.40	43.40	54.00	-10.60	VERTICAL
6	2483.500	68.87	26.58	5.23	37.40	63.28	74.00	-10.72	VERTICAL
7	2500.000	49.09	26.60	4.95	37.39	43.25	54.00	-10.75	VERTICAL
8	2500.000	66.83	26.60	4.95	37.39	60.99	74.00	-13.01	VERTICAL



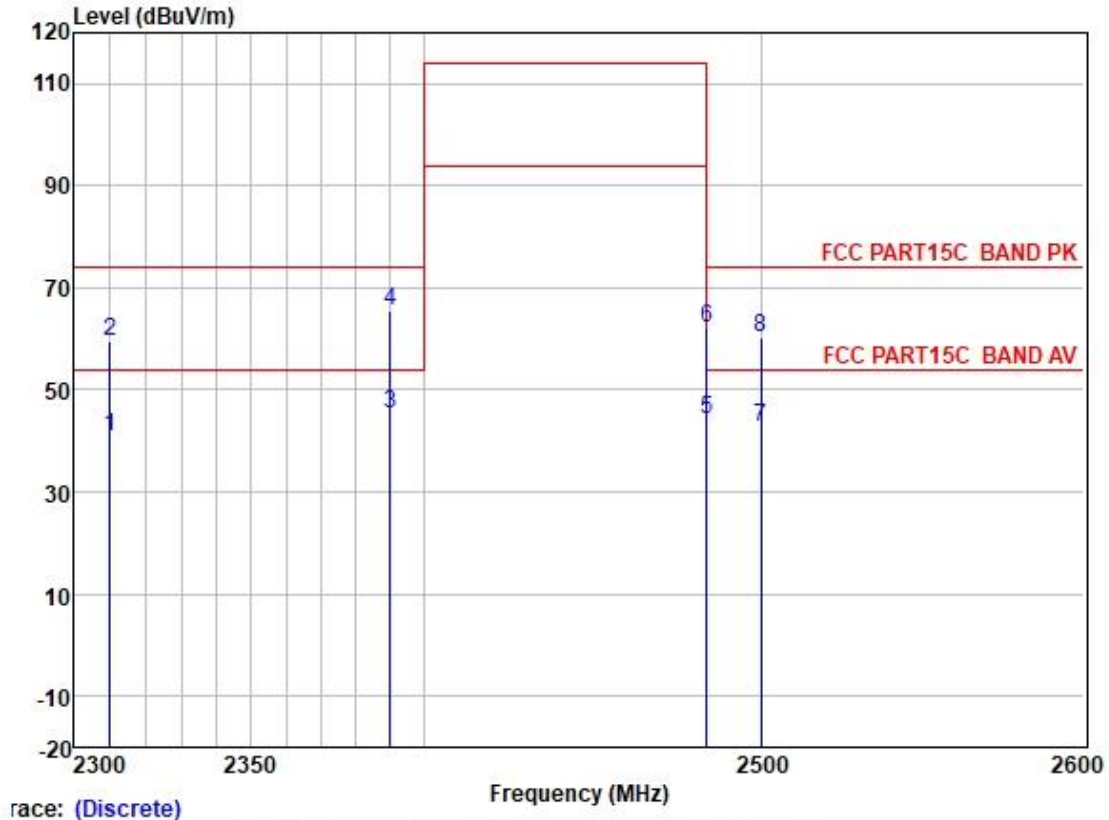
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

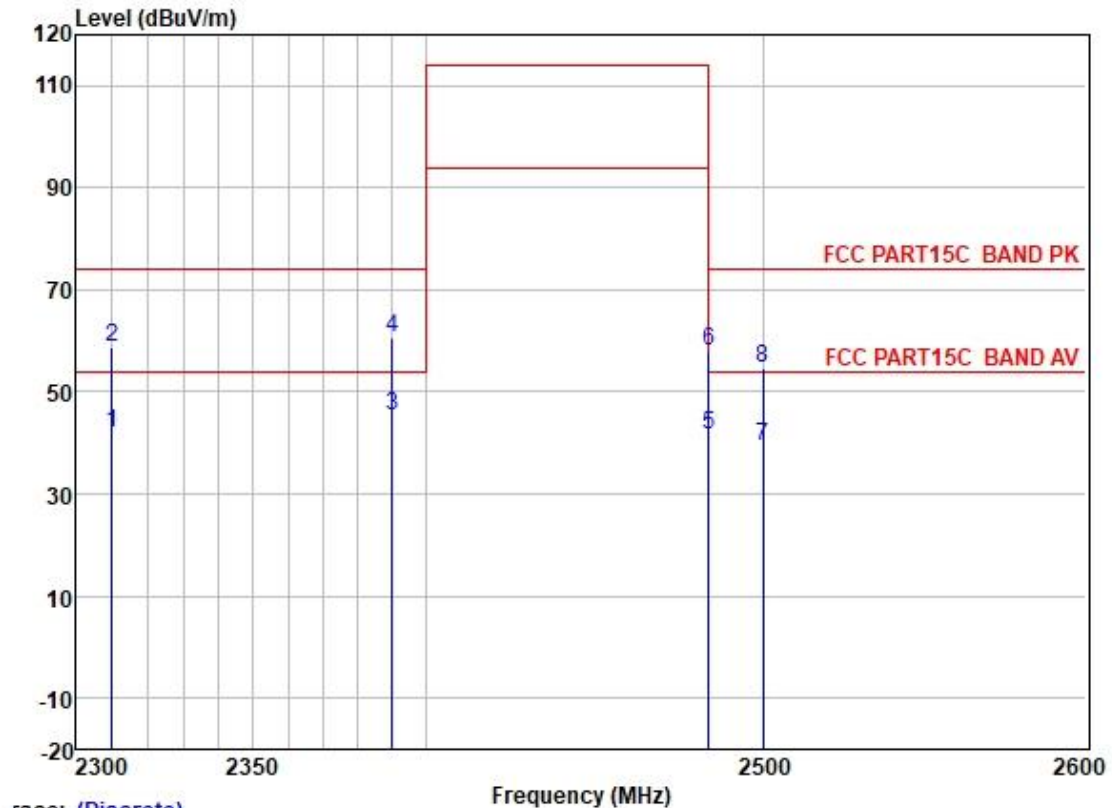


Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	47.10	26.25	5.03	37.44	40.94	54.00	-13.06	HORIZONTAL	Average
2	2310.000	65.58	26.25	5.03	37.44	59.42	74.00	-14.58	HORIZONTAL	Peak
3	2390.000	51.37	26.43	4.88	37.42	45.26	54.00	-8.74	HORIZONTAL	Average
4	2390.000	71.53	26.43	4.88	37.42	65.42	74.00	-8.58	HORIZONTAL	Peak
5	2483.500	49.80	26.58	5.23	37.40	44.21	54.00	-9.79	HORIZONTAL	Average
6	2483.500	67.70	26.58	5.23	37.40	62.11	74.00	-11.89	HORIZONTAL	Peak
7	2500.000	48.45	26.60	4.95	37.39	42.61	54.00	-11.39	HORIZONTAL	Average
8	2500.000	66.15	26.60	4.95	37.39	60.31	74.00	-13.69	HORIZONTAL	Peak



Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	48.12	26.25	5.03	37.44	41.96	54.00	-12.04	VERTICAL
2	2310.000	64.76	26.25	5.03	37.44	58.60	74.00	-15.40	VERTICAL
3	2390.000	51.62	26.43	4.88	37.42	45.51	54.00	-8.49	VERTICAL
4	2390.000	66.59	26.43	4.88	37.42	60.48	74.00	-13.52	VERTICAL
5	2483.500	47.22	26.58	5.23	37.40	41.63	54.00	-12.37	VERTICAL
6	2483.500	63.75	26.58	5.23	37.40	58.16	74.00	-15.84	VERTICAL
7	2500.000	45.34	26.60	4.95	37.39	39.50	54.00	-14.50	VERTICAL
8	2500.000	60.46	26.60	4.95	37.39	54.62	74.00	-19.38	VERTICAL

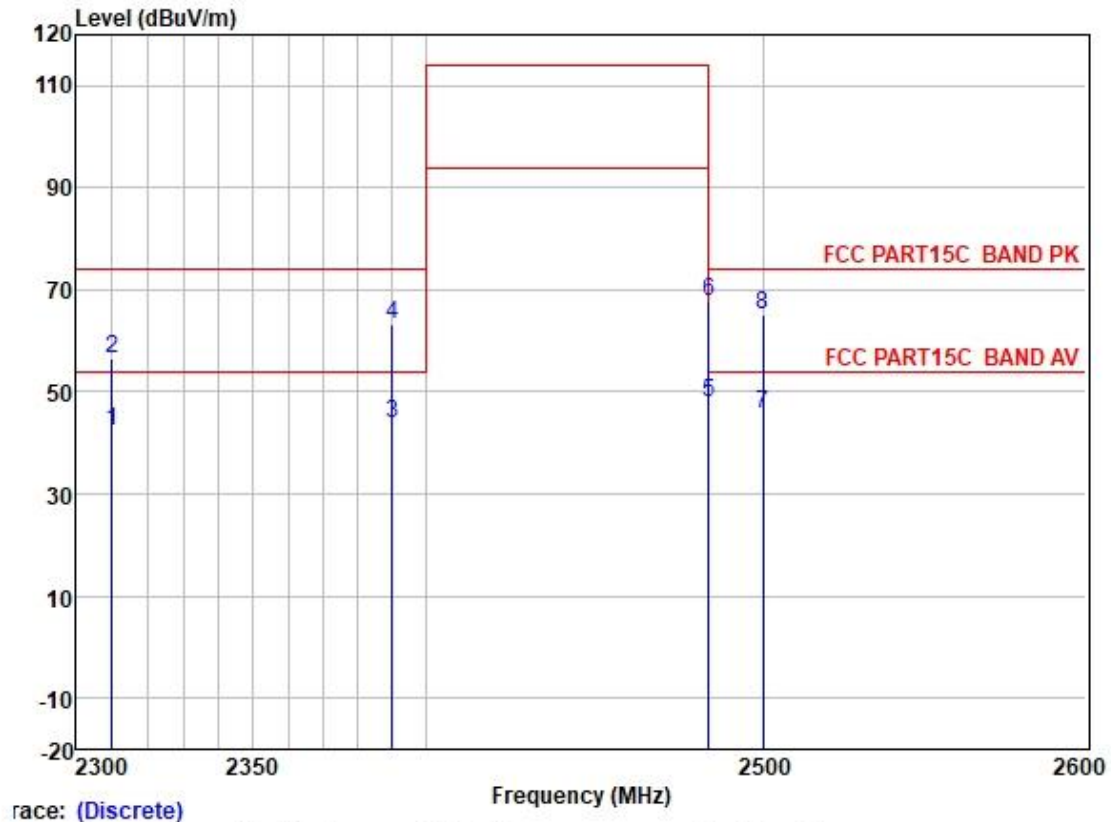


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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



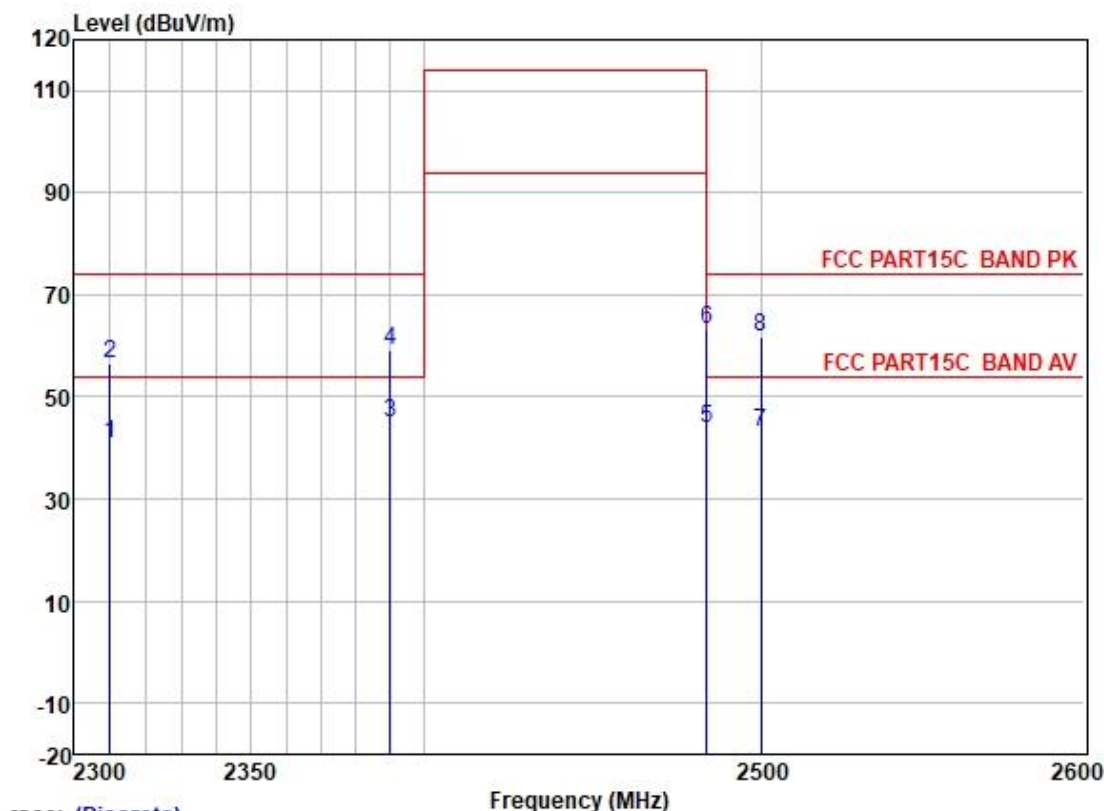
Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamplifier	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	48.47	26.25	5.03	37.44	42.31	54.00	-11.69	HORIZONTAL Average
2	2310.000	62.64	26.25	5.03	37.44	56.48	74.00	-17.52	HORIZONTAL Peak
3	2390.000	49.89	26.43	4.88	37.42	43.78	54.00	-10.22	HORIZONTAL Average
4	2390.000	69.21	26.43	4.88	37.42	63.10	74.00	-10.90	HORIZONTAL Peak
5	2483.500	53.42	26.58	5.23	37.40	47.83	54.00	-6.17	HORIZONTAL Average
6	2483.500	73.33	26.58	5.23	37.40	67.74	74.00	-6.26	HORIZONTAL Peak
7	2500.000	51.39	26.60	4.95	37.39	45.55	54.00	-8.45	HORIZONTAL Average
8	2500.000	70.83	26.60	4.95	37.39	64.99	74.00	-9.01	HORIZONTAL Peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	47.00	26.25	5.03	37.44	40.84	54.00	-13.16	VERTICAL
2	2310.000	62.81	26.25	5.03	37.44	56.65	74.00	-17.35	VERTICAL
3	2390.000	50.99	26.43	4.88	37.42	44.88	54.00	-9.12	VERTICAL
4	2390.000	65.21	26.43	4.88	37.42	59.10	74.00	-14.90	VERTICAL
5	2483.500	49.48	26.58	5.23	37.40	43.89	54.00	-10.11	VERTICAL
6	2483.500	68.81	26.58	5.23	37.40	63.22	74.00	-10.78	VERTICAL
7	2500.000	48.98	26.60	4.95	37.39	43.14	54.00	-10.86	VERTICAL
8	2500.000	67.66	26.60	4.95	37.39	61.82	74.00	-12.18	VERTICAL

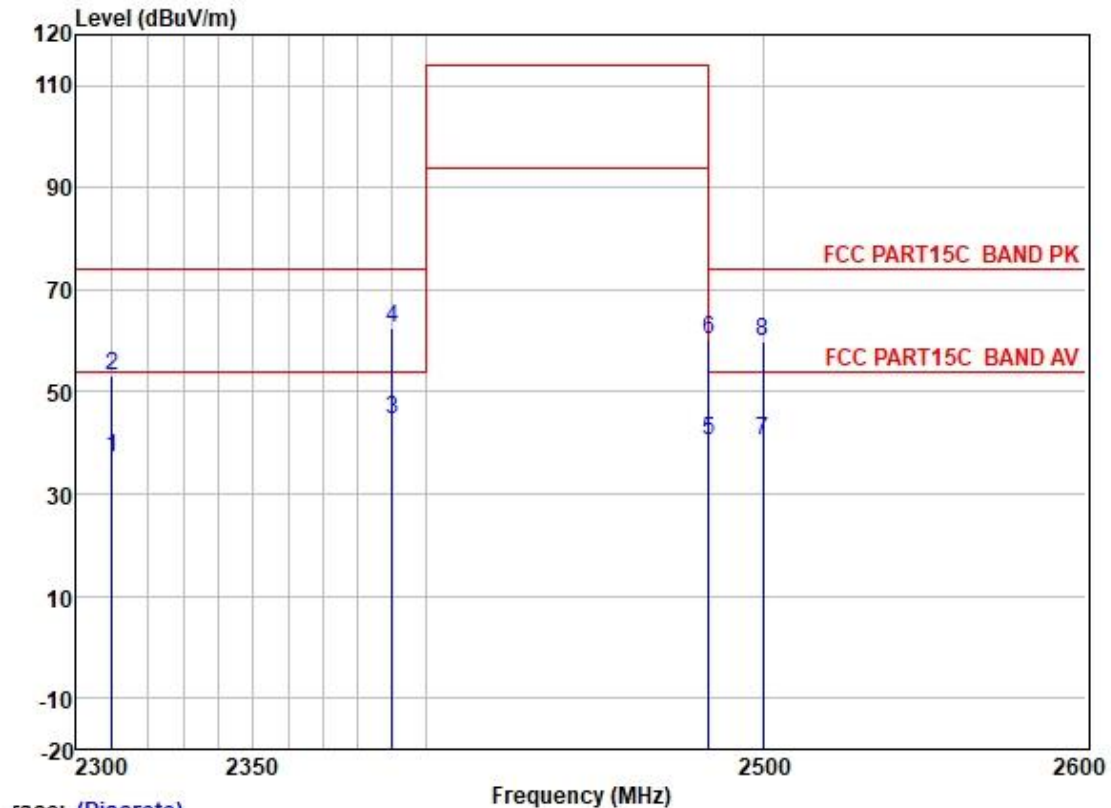


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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	43.42	26.25	5.03	37.44	37.26	54.00	-16.74	HORIZONTAL	Average
2	2310.000	59.50	26.25	5.03	37.44	53.34	74.00	-20.66	HORIZONTAL	Peak
3	2390.000	50.64	26.43	4.88	37.42	44.53	54.00	-9.47	HORIZONTAL	Average
4	2390.000	68.60	26.43	4.88	37.42	62.49	74.00	-11.51	HORIZONTAL	Peak
5	2483.500	46.08	26.58	5.23	37.40	40.49	54.00	-13.51	HORIZONTAL	Average
6	2483.500	65.93	26.58	5.23	37.40	60.34	74.00	-13.66	HORIZONTAL	Peak
7	2500.000	46.16	26.60	4.95	37.39	40.32	54.00	-13.68	HORIZONTAL	Average
8	2500.000	65.89	26.60	4.95	37.39	60.05	74.00	-13.95	HORIZONTAL	Peak



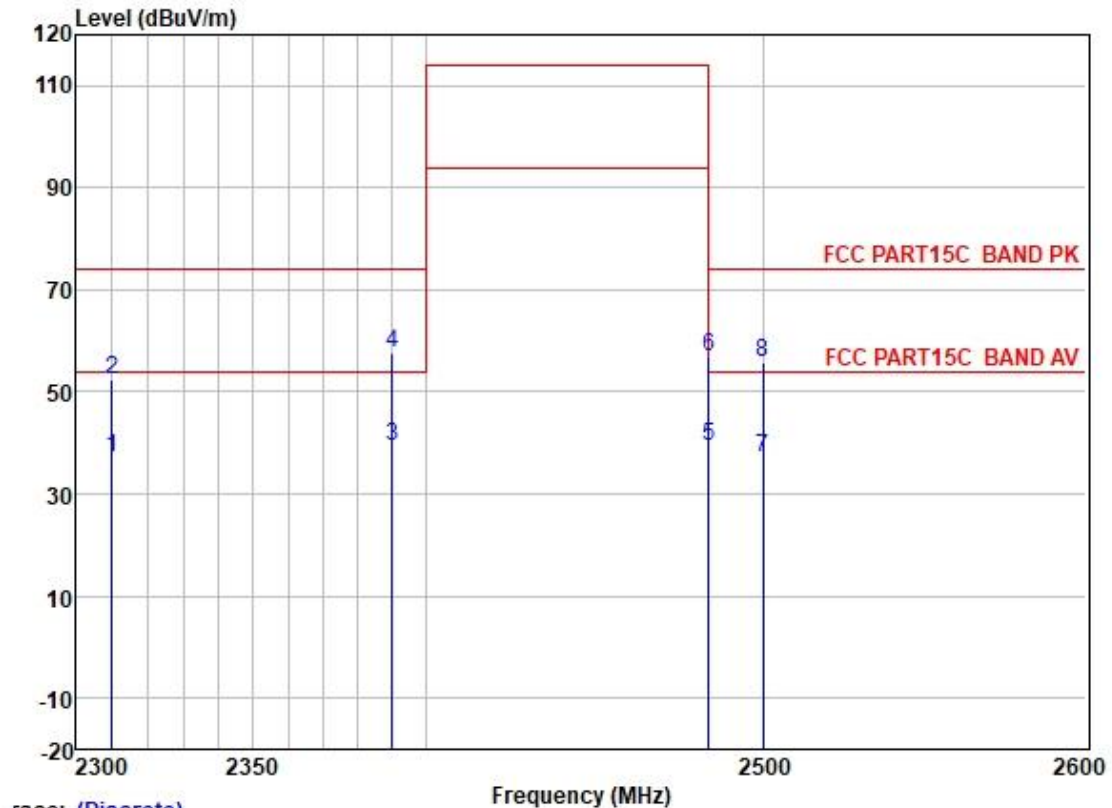
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	43.12	26.25	5.03	37.44	36.96	54.00	-17.04	VERTICAL
2	2310.000	58.44	26.25	5.03	37.44	52.28	74.00	-21.72	VERTICAL
3	2390.000	45.41	26.43	4.88	37.42	39.30	54.00	-14.70	VERTICAL
4	2390.000	63.60	26.43	4.88	37.42	57.49	74.00	-16.51	VERTICAL
5	2483.500	45.02	26.58	5.23	37.40	39.43	54.00	-14.57	VERTICAL
6	2483.500	62.36	26.58	5.23	37.40	56.77	74.00	-17.23	VERTICAL
7	2500.000	43.03	26.60	4.95	37.39	37.19	54.00	-16.81	VERTICAL
8	2500.000	61.52	26.60	4.95	37.39	55.68	74.00	-18.32	VERTICAL

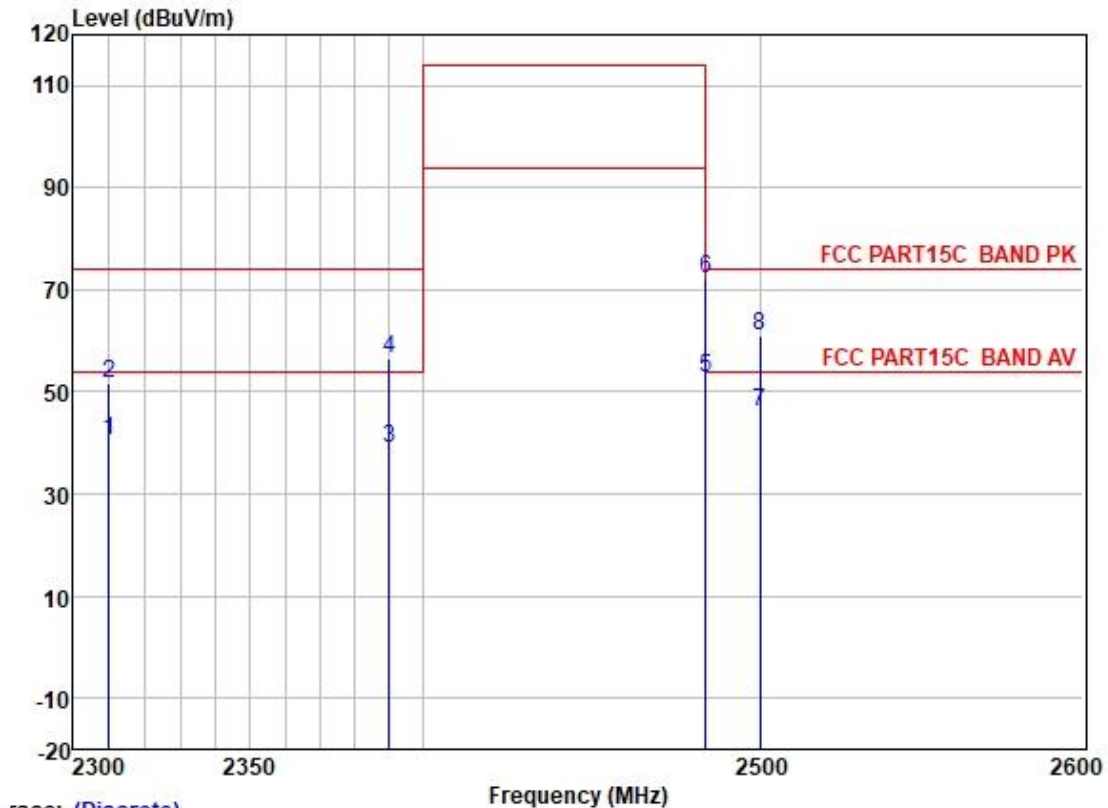


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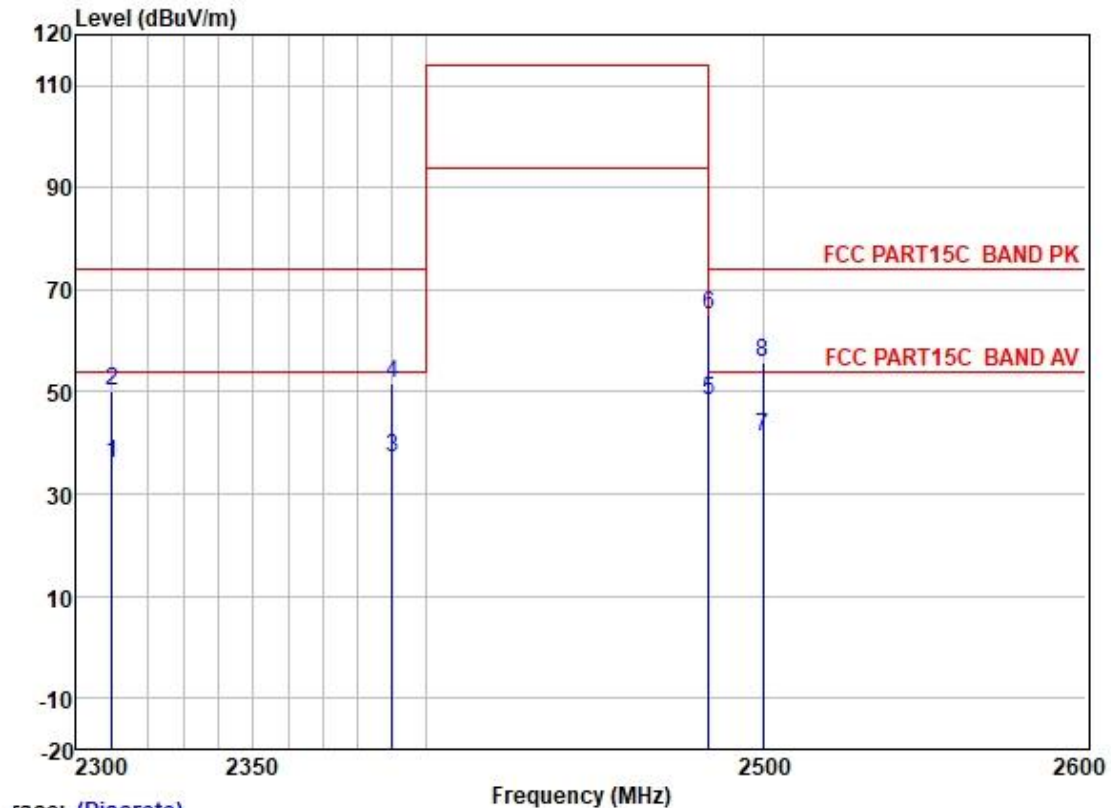
Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	46.56	26.25	5.03	37.44	40.40	54.00	-13.60	HORIZONTAL	Average
2	2310.000	57.97	26.25	5.03	37.44	51.81	74.00	-22.19	HORIZONTAL	Peak
3	2390.000	45.04	26.43	4.88	37.42	38.93	54.00	-15.07	HORIZONTAL	Average
4	2390.000	62.68	26.43	4.88	37.42	56.57	74.00	-17.43	HORIZONTAL	Peak
5	2483.500	58.56	26.58	5.23	37.40	52.97	54.00	-1.03	HORIZONTAL	Average
6	2483.500	77.80	26.58	5.23	37.40	72.21	74.00	-1.79	HORIZONTAL	Peak
7	2500.000	51.76	26.60	4.95	37.39	45.92	54.00	-8.08	HORIZONTAL	Average
8	2500.000	66.73	26.60	4.95	37.39	60.89	74.00	-13.11	HORIZONTAL	Peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	41.99	26.25	5.03	37.44	35.83	54.00	-18.17	VERTICAL
2	2310.000	56.42	26.25	5.03	37.44	50.26	74.00	-23.74	VERTICAL
3	2390.000	43.19	26.43	4.88	37.42	37.08	54.00	-16.92	VERTICAL
4	2390.000	57.68	26.43	4.88	37.42	51.57	74.00	-22.43	VERTICAL
5	2483.500	53.90	26.58	5.23	37.40	48.31	54.00	-5.69	VERTICAL
6	2483.500	70.56	26.58	5.23	37.40	64.97	74.00	-9.03	VERTICAL
7	2500.000	47.02	26.60	4.95	37.39	41.18	54.00	-12.82	VERTICAL
8	2500.000	61.74	26.60	4.95	37.39	55.90	74.00	-18.10	VERTICAL



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## 7.8 Radiated Spurious Emissions

Test Requirement: 47 CFR Part 15, Subpart C 15.209 & 15.247(d)  
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6  
Measurement Distance: 3m  
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
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.





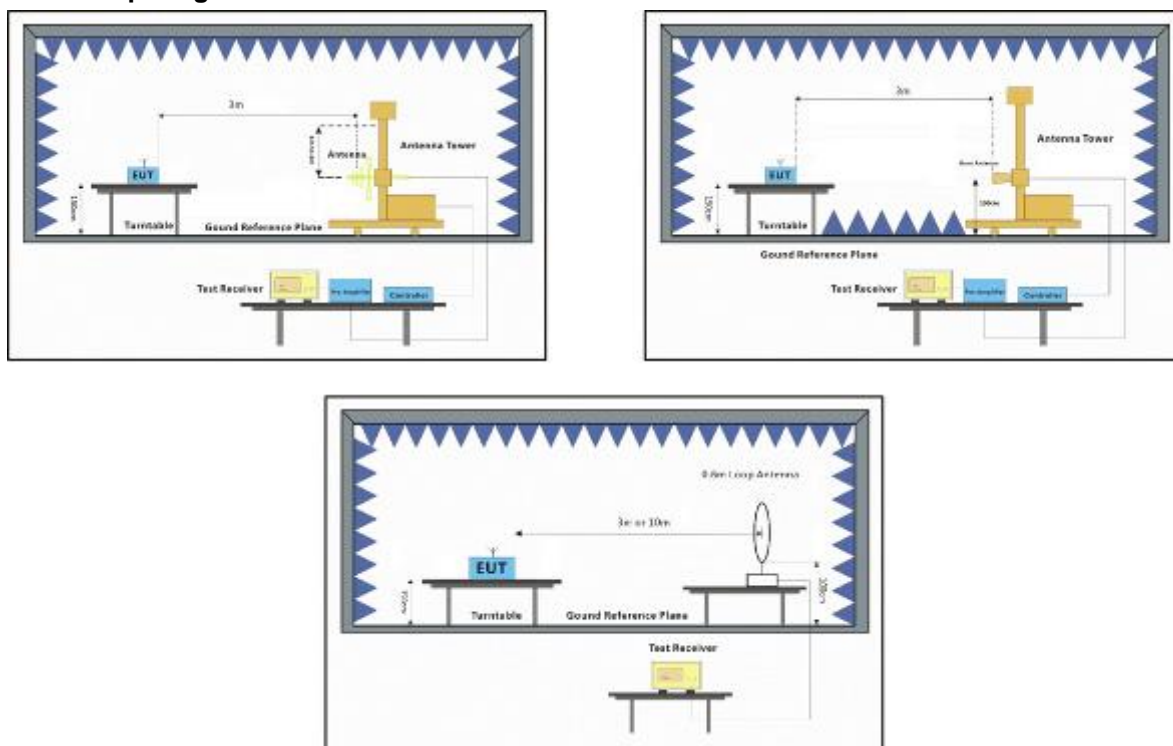
### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 56.4 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 7.8.2 Test Setup Diagram



### 7.8.3 Measurement Procedure and Data

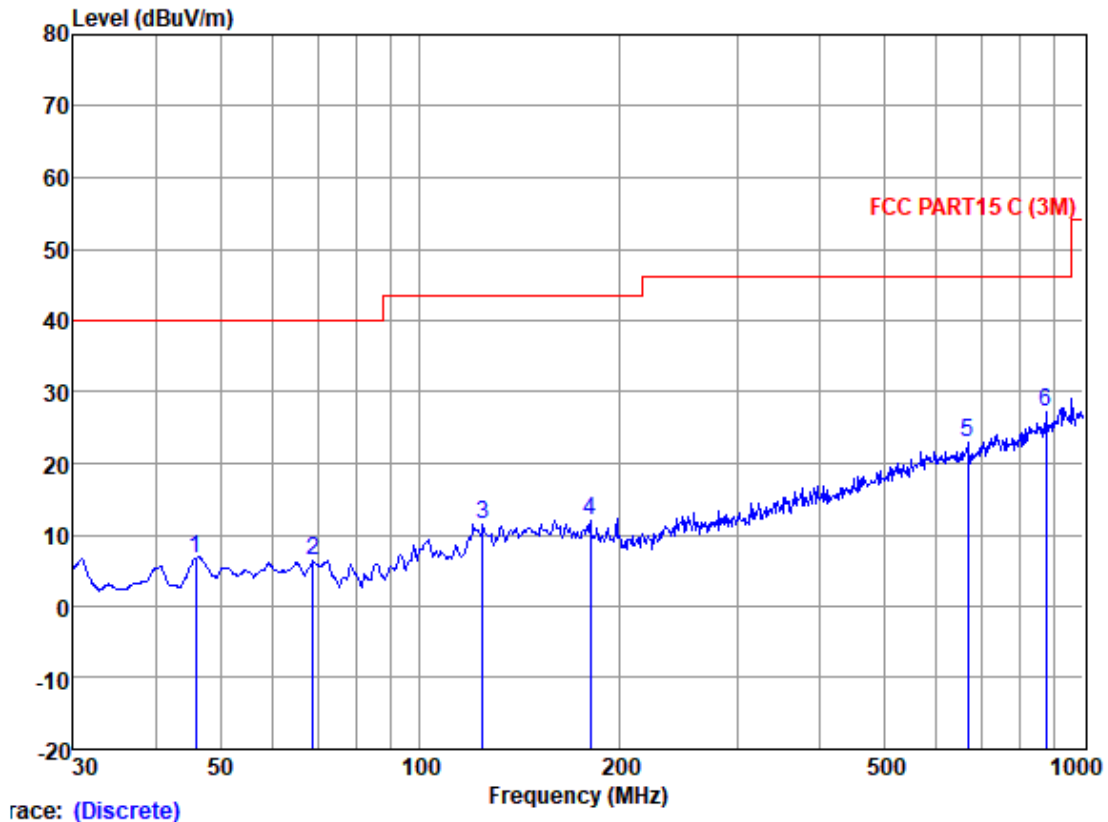
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above 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.
- 4) 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



Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	dB		
1	45.855	22.67	12.87	0.70	29.52	6.72	40.00	-33.28	HORIZONTAL	QP
2	68.872	24.18	10.90	0.71	29.42	6.37	40.00	-33.63	HORIZONTAL	QP
3	124.133	28.11	11.76	0.94	29.40	11.41	43.50	-32.09	HORIZONTAL	QP
4	180.649	27.37	12.67	1.34	29.40	11.98	43.50	-31.52	HORIZONTAL	QP
5	668.142	28.90	21.22	2.15	29.47	22.80	46.00	-23.20	HORIZONTAL	QP
6	878.322	29.44	23.80	2.91	28.90	27.25	46.00	-18.75	HORIZONTAL	QP



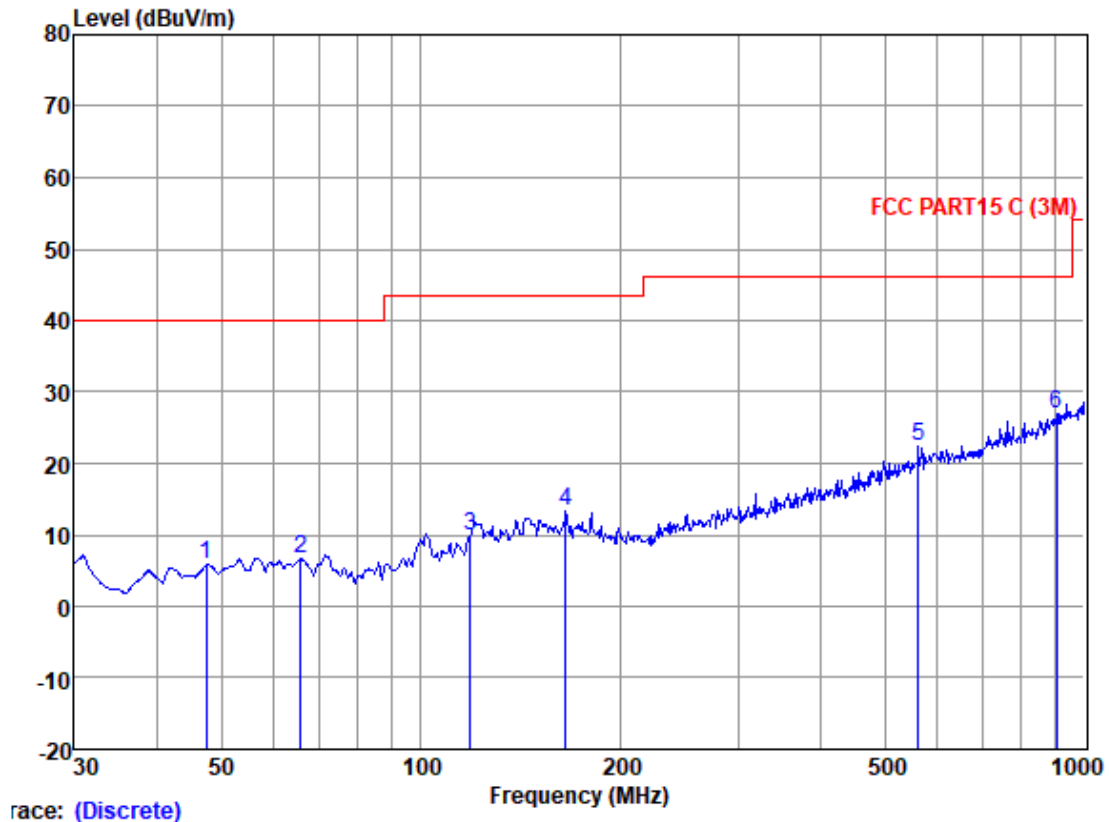
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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	dB		
1	47.492	21.83	12.94	0.65	29.51	5.91	40.00	-34.09	VERTICAL	QP
2	65.803	24.23	11.30	0.67	29.43	6.77	40.00	-33.23	VERTICAL	QP
3	118.601	27.00	11.44	0.92	29.40	9.96	43.50	-33.54	VERTICAL	QP
4	164.908	28.18	13.26	1.29	29.40	13.33	43.50	-30.17	VERTICAL	QP
5	560.693	29.91	19.90	2.01	29.54	22.28	46.00	-23.72	VERTICAL	QP
6	906.482	28.32	24.05	3.13	28.57	26.93	46.00	-19.07	VERTICAL	QP

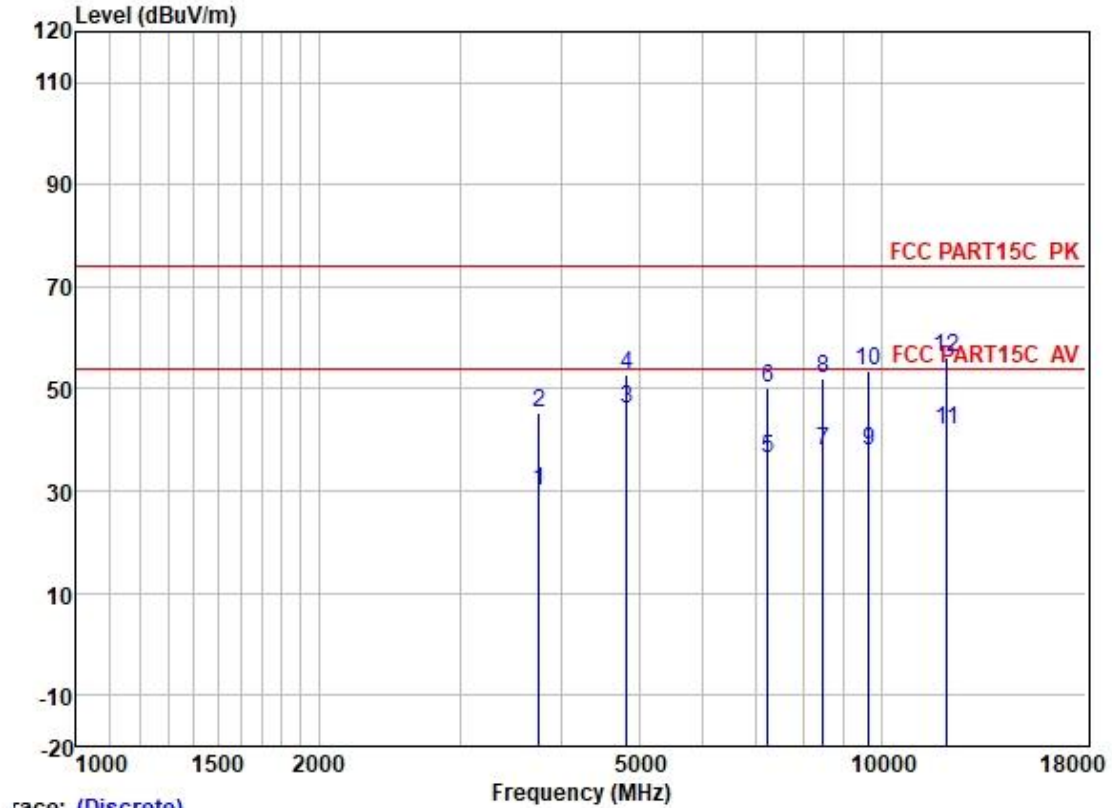


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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark	
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
	MHz								
1	3757.637	30.46	28.82	7.65	36.92	30.01	54.00	-23.99	HORIZONTAL Average
2	3757.637	45.69	28.82	7.65	36.92	45.24	74.00	-28.76	HORIZONTAL Peak
3	4824.016	46.14	30.82	6.01	36.94	46.03	54.00	-7.97	HORIZONTAL Average
4	4824.016	52.85	30.82	6.01	36.94	52.74	74.00	-21.26	HORIZONTAL Peak
5	7236.122	30.27	35.55	7.35	36.93	36.24	54.00	-17.76	HORIZONTAL Average
6	7236.122	44.32	35.55	7.35	36.93	50.29	74.00	-23.71	HORIZONTAL Peak
7	8465.379	30.50	36.11	8.04	36.94	37.71	54.00	-16.29	HORIZONTAL Average
8	8465.379	44.76	36.11	8.04	36.94	51.97	74.00	-22.03	HORIZONTAL Peak
9	9648.187	29.06	37.54	8.18	37.08	37.70	54.00	-16.30	HORIZONTAL Average
10	9648.187	44.89	37.54	8.18	37.08	53.53	74.00	-20.47	HORIZONTAL Peak
11	12060.900	28.80	39.46	10.71	37.17	41.80	54.00	-12.20	HORIZONTAL Average
12	12060.900	43.20	39.46	10.71	37.17	56.20	74.00	-17.80	HORIZONTAL Peak

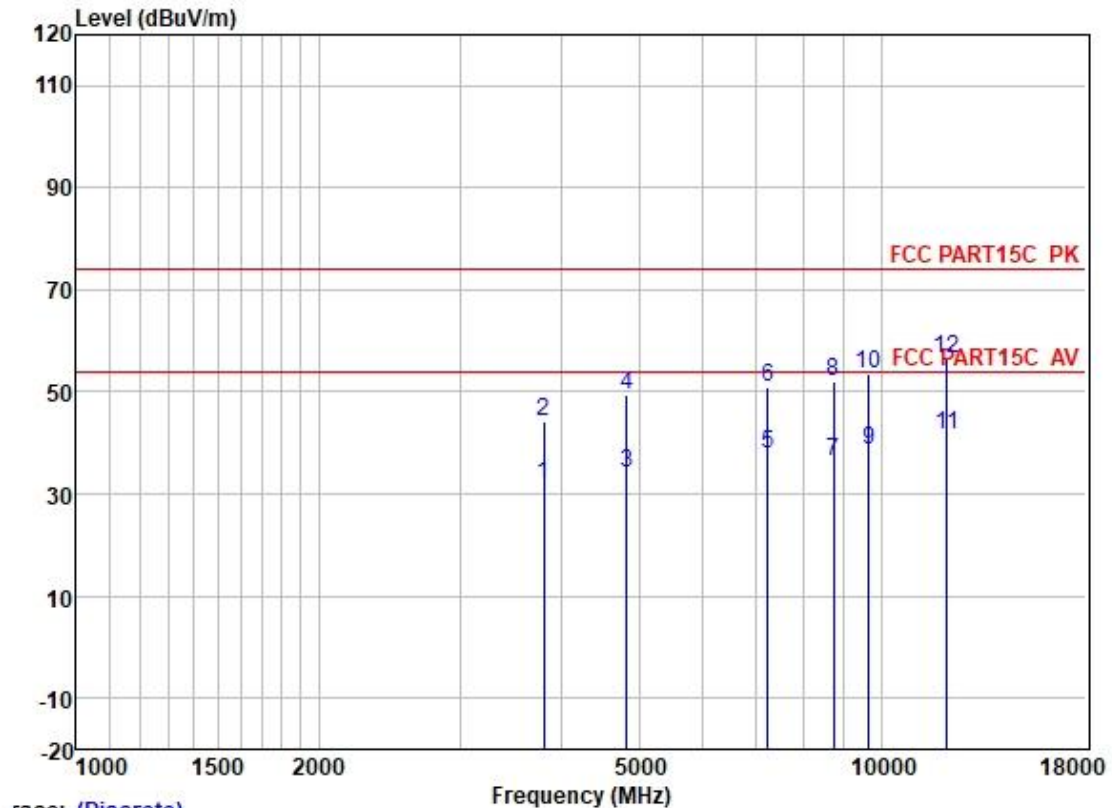


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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3812.336	31.85	29.05	7.86	36.92	31.84	54.00	-22.16	VERTICAL
2	3812.336	44.20	29.05	7.86	36.92	44.19	74.00	-29.81	VERTICAL
3	4824.058	34.27	30.82	6.01	36.94	34.16	54.00	-19.84	VERTICAL
4	4824.058	49.46	30.82	6.01	36.94	49.35	74.00	-24.65	VERTICAL
5	7236.015	32.00	35.55	7.35	36.93	37.97	54.00	-16.03	VERTICAL
6	7236.015	45.07	35.55	7.35	36.93	51.04	74.00	-22.96	VERTICAL
7	8738.852	29.07	36.30	7.98	36.96	36.39	54.00	-17.61	VERTICAL
8	8738.852	44.73	36.30	7.98	36.96	52.05	74.00	-21.95	VERTICAL
9	9648.151	29.88	37.54	8.18	37.08	38.52	54.00	-15.48	VERTICAL
10	9648.151	44.86	37.54	8.18	37.08	53.50	74.00	-20.50	VERTICAL
11	12060.520	28.46	39.46	10.71	37.17	41.46	54.00	-12.54	VERTICAL
12	12060.520	43.52	39.46	10.71	37.17	56.52	74.00	-17.48	VERTICAL



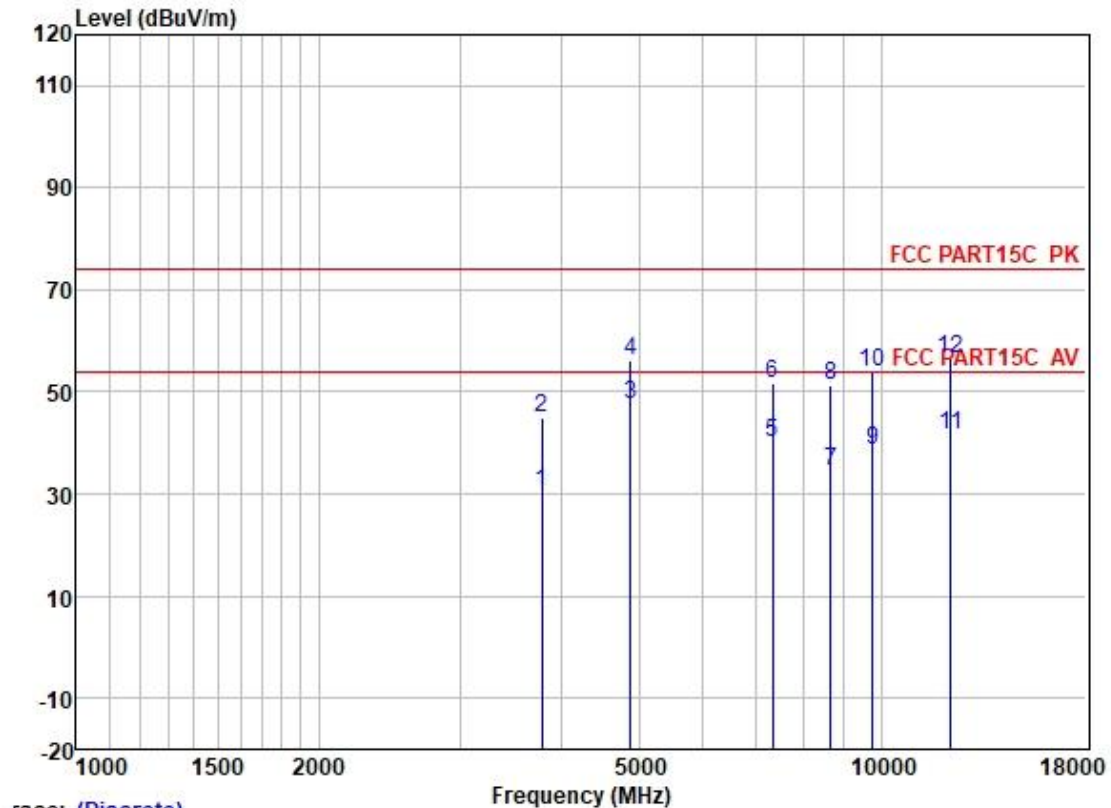
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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3790.361	30.64	28.97	7.83	36.92	30.52	54.00	-23.48	HORIZONTAL Average
2	3790.361	44.96	28.97	7.83	36.92	44.84	74.00	-29.16	HORIZONTAL Peak
3	4884.151	46.83	30.95	6.86	36.95	47.69	54.00	-6.31	HORIZONTAL Average
4	4884.151	55.44	30.95	6.86	36.95	56.30	74.00	-17.70	HORIZONTAL Peak
5	7326.267	33.89	35.74	7.39	36.92	40.10	54.00	-13.90	HORIZONTAL Average
6	7326.267	45.35	35.74	7.39	36.92	51.56	74.00	-22.44	HORIZONTAL Peak
7	8663.404	27.19	36.22	7.95	36.96	34.40	54.00	-19.60	HORIZONTAL Average
8	8663.404	44.21	36.22	7.95	36.96	51.42	74.00	-22.58	HORIZONTAL Peak
9	9768.543	29.53	37.74	8.37	37.09	38.55	54.00	-15.45	HORIZONTAL Average
10	9768.543	44.81	37.74	8.37	37.09	53.83	74.00	-20.17	HORIZONTAL Peak
11	12210.280	28.36	39.21	10.98	37.06	41.49	54.00	-12.51	HORIZONTAL Average
12	12210.280	43.49	39.21	10.98	37.06	56.62	74.00	-17.38	HORIZONTAL Peak

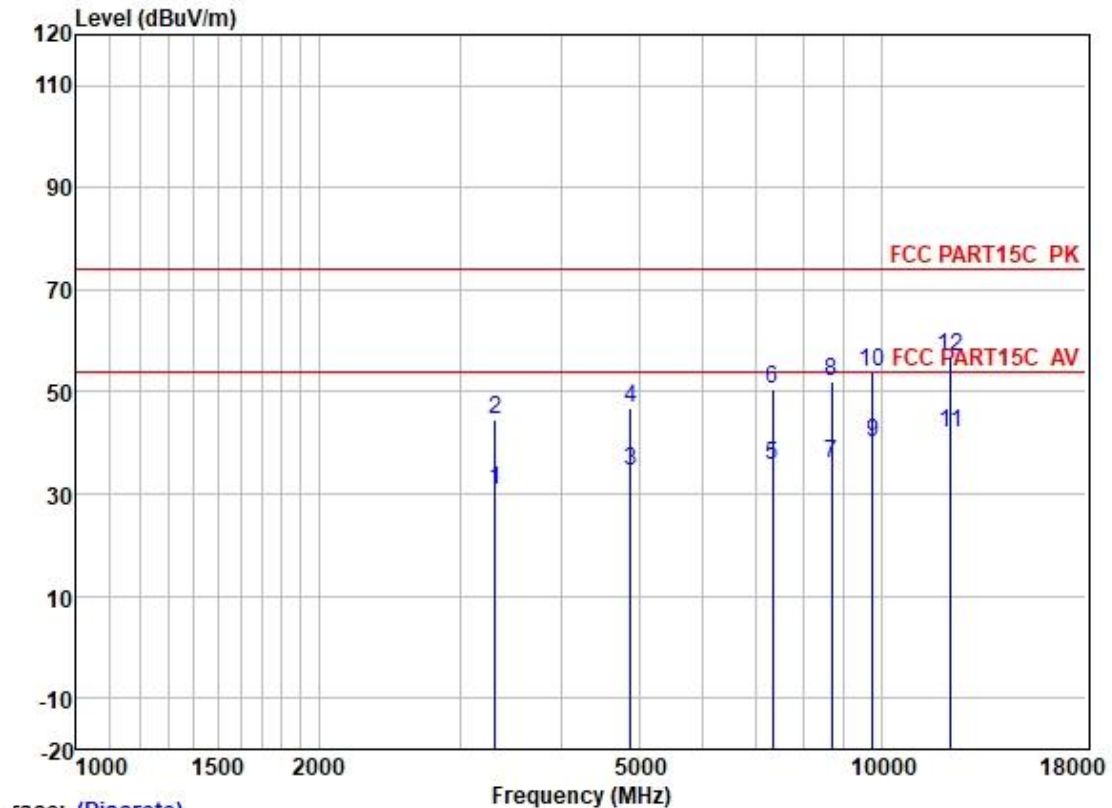


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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3318.471	34.29	27.90	5.63	36.98	30.84	54.00	-23.16	VERTICAL
2	3318.471	47.88	27.90	5.63	36.98	44.43	74.00	-29.57	VERTICAL
3	4884.490	33.47	30.95	6.86	36.95	34.33	54.00	-19.67	VERTICAL
4	4884.490	46.00	30.95	6.86	36.95	46.86	74.00	-27.14	VERTICAL
5	7326.267	29.54	35.74	7.39	36.92	35.75	54.00	-18.25	VERTICAL
6	7326.267	44.42	35.74	7.39	36.92	50.63	74.00	-23.37	VERTICAL
7	8688.480	28.75	36.25	7.94	36.96	35.98	54.00	-18.02	VERTICAL
8	8688.480	44.78	36.25	7.94	36.96	52.01	74.00	-21.99	VERTICAL
9	9768.221	31.04	37.74	8.37	37.09	40.06	54.00	-13.94	VERTICAL
10	9768.221	44.75	37.74	8.37	37.09	53.77	74.00	-20.23	VERTICAL
11	12210.350	28.70	39.21	10.98	37.06	41.83	54.00	-12.17	VERTICAL
12	12210.350	43.96	39.21	10.98	37.06	57.09	74.00	-16.91	VERTICAL



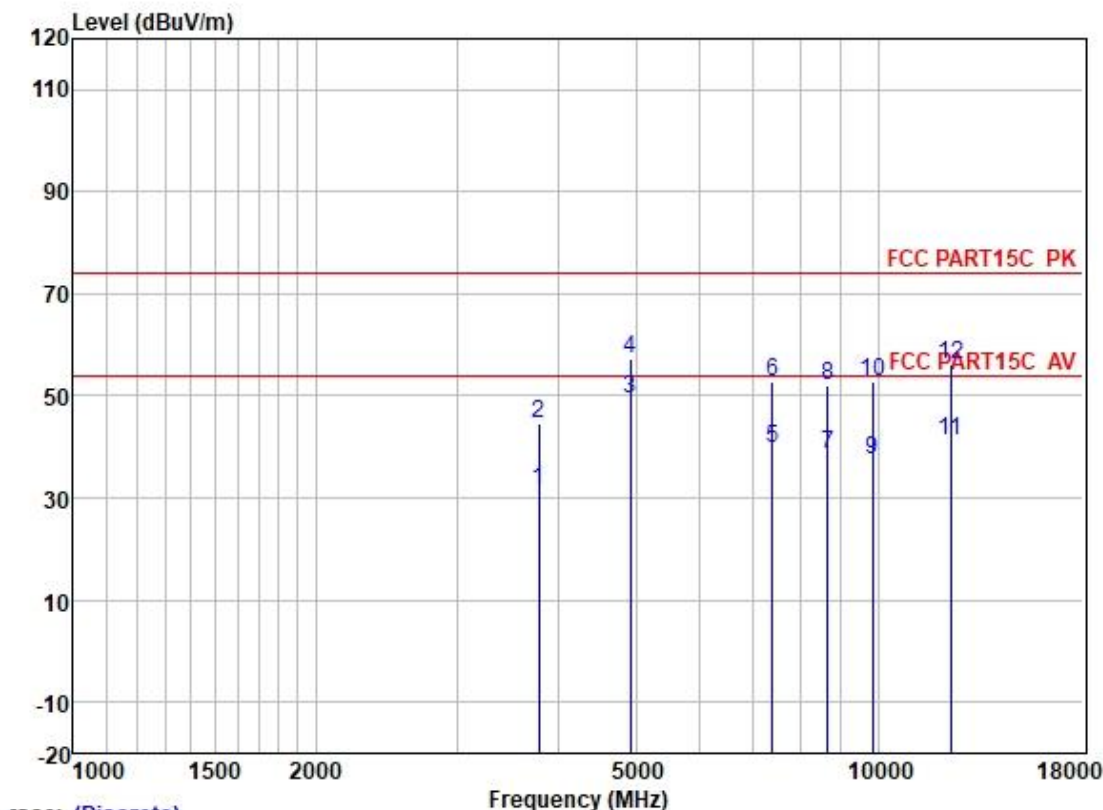
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Mode:a: Polarization:Horizontal: Modulation:b: bandwidth:20MHz: Channel:High



Race:	Frequency (MHz)									
	Freq	ReadAntenna		Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		Level	Factor							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3790.361	31.66	28.97	7.83	36.92	31.54	54.00	-22.46	HORIZONTAL	Average
2	3790.361	44.85	28.97	7.83	36.92	44.73	74.00	-29.27	HORIZONTAL	Peak
3	4924.490	47.71	31.01	7.49	36.95	49.26	54.00	-4.74	HORIZONTAL	Average
4	4924.490	55.60	31.01	7.49	36.95	57.15	74.00	-16.85	HORIZONTAL	Peak
5	7386.741	33.55	35.85	7.42	36.92	39.90	54.00	-14.10	HORIZONTAL	Average
6	7386.741	46.53	35.85	7.42	36.92	52.88	74.00	-21.12	HORIZONTAL	Peak
7	8663.404	31.58	36.22	7.95	36.96	38.79	54.00	-15.21	HORIZONTAL	Average
8	8663.404	44.80	36.22	7.95	36.96	52.01	74.00	-21.99	HORIZONTAL	Peak
9	9848.710	28.36	37.82	8.46	37.09	37.55	54.00	-16.45	HORIZONTAL	Average
10	9848.710	43.67	37.82	8.46	37.09	52.86	74.00	-21.14	HORIZONTAL	Peak
11	12310.380	27.96	39.03	11.10	36.97	41.12	54.00	-12.88	HORIZONTAL	Average
12	12310.380	43.16	39.03	11.10	36.97	56.32	74.00	-17.68	HORIZONTAL	Peak



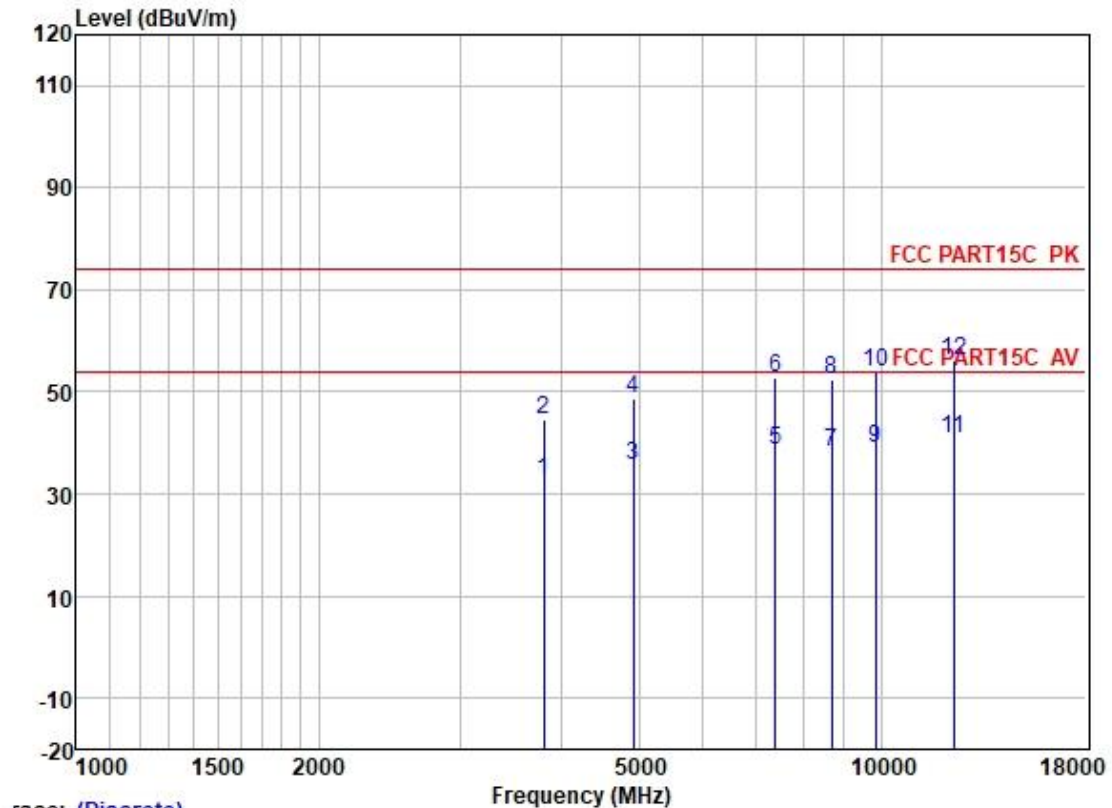
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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3812.336	32.52	29.05	7.86	36.92	32.51	54.00	-21.49	VERTICAL
2	3812.336	44.69	29.05	7.86	36.92	44.68	74.00	-29.32	VERTICAL
3	4924.490	33.94	31.01	7.49	36.95	35.49	54.00	-18.51	VERTICAL
4	4924.490	47.31	31.01	7.49	36.95	48.86	74.00	-25.14	VERTICAL
5	7386.741	32.19	35.85	7.42	36.92	38.54	54.00	-15.46	VERTICAL
6	7386.741	46.55	35.85	7.42	36.92	52.90	74.00	-21.10	VERTICAL
7	8688.480	31.07	36.25	7.94	36.96	38.30	54.00	-15.70	VERTICAL
8	8688.480	45.34	36.25	7.94	36.96	52.57	74.00	-21.43	VERTICAL
9	9848.717	29.96	37.82	8.46	37.09	39.15	54.00	-14.85	VERTICAL
10	9848.717	44.76	37.82	8.46	37.09	53.95	74.00	-20.05	VERTICAL
11	12310.930	27.70	39.03	11.10	36.97	40.86	54.00	-13.14	VERTICAL
12	12310.930	43.09	39.03	11.10	36.97	56.25	74.00	-17.75	VERTICAL

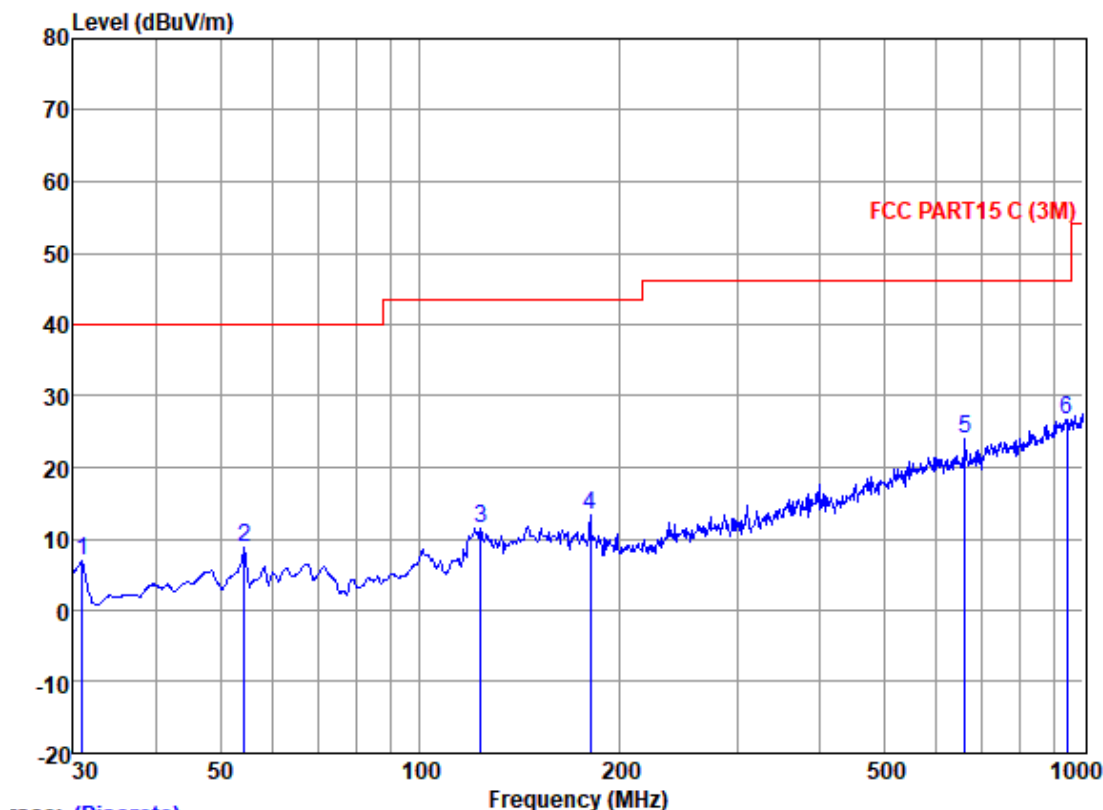


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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	dB		
1	30.962	24.49	12.22	0.07	29.83	6.95	40.00	-33.05	HORIZONTAL	QP
2	54.261	24.94	12.68	0.59	29.49	8.72	40.00	-31.28	HORIZONTAL	QP
3	123.266	28.35	11.70	0.93	29.40	11.58	43.50	-31.92	HORIZONTAL	QP
4	180.649	28.81	12.67	1.34	29.40	13.42	43.50	-30.08	HORIZONTAL	QP
5	663.473	30.06	21.18	2.14	29.47	23.91	46.00	-22.09	HORIZONTAL	QP
6	945.440	26.88	24.49	3.57	28.24	26.70	46.00	-19.30	HORIZONTAL	QP



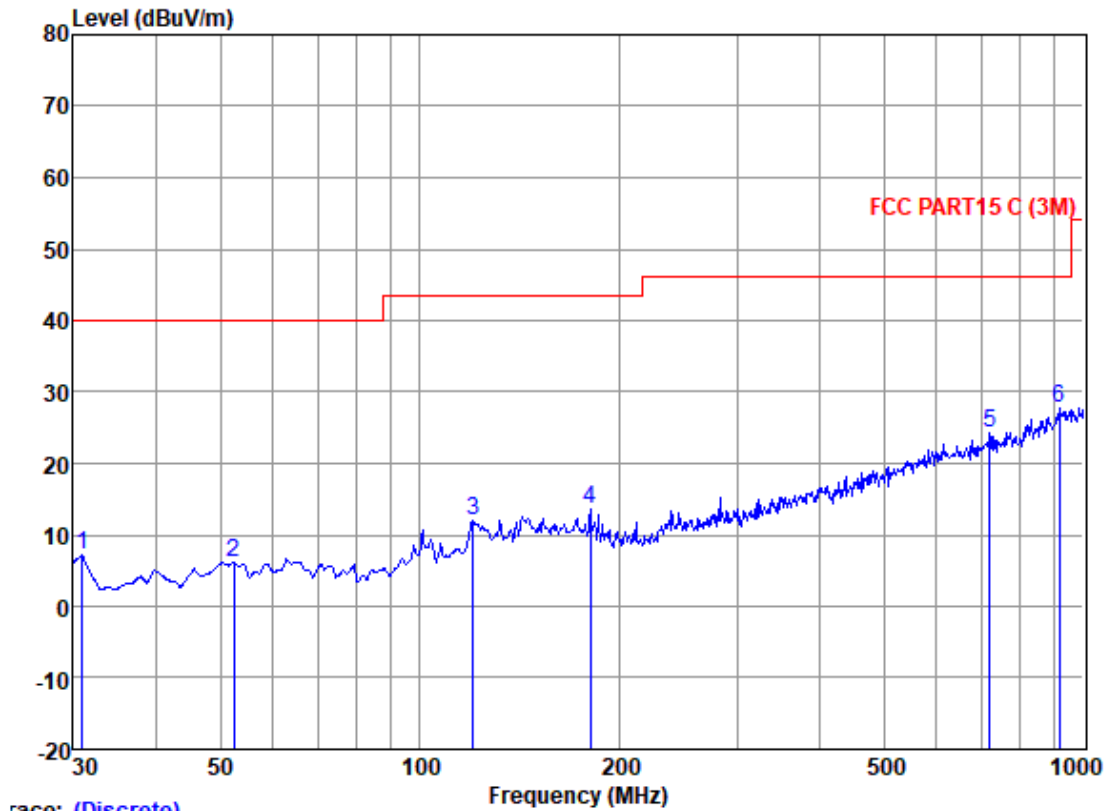
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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	dB		
1	30.962	24.68	12.22	0.07	29.83	7.14	40.00	-32.86	VERTICAL	QP
2	52.391	22.21	12.86	0.60	29.50	6.17	40.00	-33.83	VERTICAL	QP
3	120.277	28.87	11.52	0.92	29.40	11.91	43.50	-31.59	VERTICAL	QP
4	180.649	29.11	12.67	1.34	29.40	13.72	43.50	-29.78	VERTICAL	QP
5	721.726	28.52	21.63	3.60	29.43	24.32	46.00	-21.68	VERTICAL	QP
6	919.287	28.21	24.16	3.74	28.43	27.68	46.00	-18.32	VERTICAL	QP



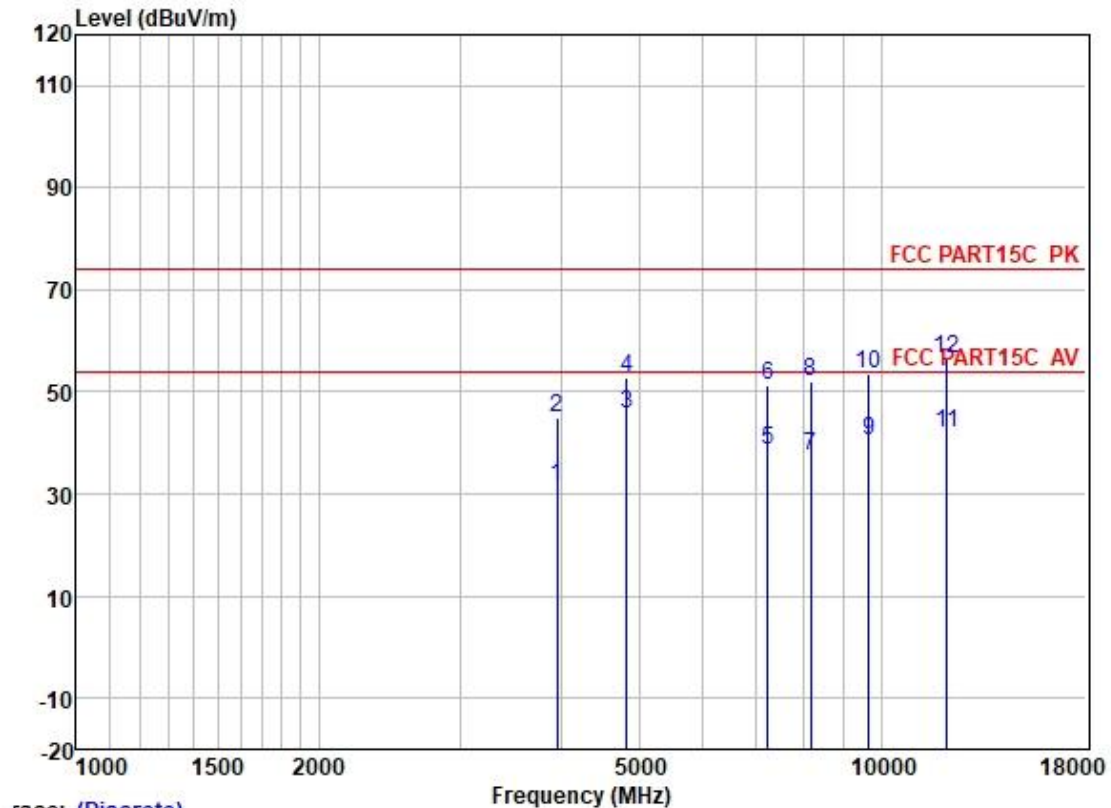
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3958.309	31.63	29.42	7.35	36.90	31.50	54.00	-22.50	HORIZONTAL Average
2	3958.309	45.07	29.42	7.35	36.90	44.94	74.00	-29.06	HORIZONTAL Peak
3	4824.016	45.93	30.82	6.01	36.94	45.82	54.00	-8.18	HORIZONTAL Average
4	4824.016	52.97	30.82	6.01	36.94	52.86	74.00	-21.14	HORIZONTAL Peak
5	7236.741	32.53	35.55	7.35	36.93	38.50	54.00	-15.50	HORIZONTAL Average
6	7236.741	45.21	35.55	7.35	36.93	51.18	74.00	-22.82	HORIZONTAL Peak
7	8176.795	29.71	36.37	8.26	36.91	37.43	54.00	-16.57	HORIZONTAL Average
8	8176.795	44.40	36.37	8.26	36.91	52.12	74.00	-21.88	HORIZONTAL Peak
9	9648.430	31.82	37.54	8.18	37.08	40.46	54.00	-13.54	HORIZONTAL Average
10	9648.430	44.87	37.54	8.18	37.08	53.51	74.00	-20.49	HORIZONTAL Peak
11	12060.250	29.09	39.46	10.71	37.17	42.09	54.00	-11.91	HORIZONTAL Average
12	12060.250	43.39	39.46	10.71	37.17	56.39	74.00	-17.61	HORIZONTAL Peak

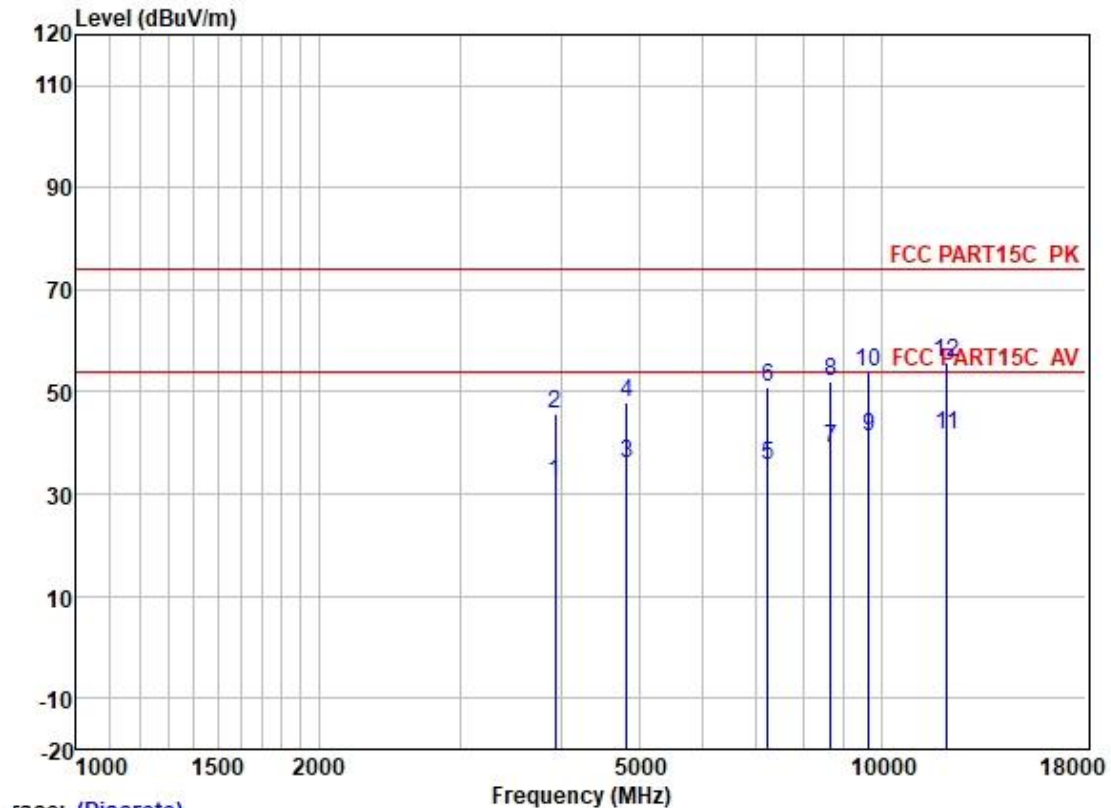


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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3935.493	32.30	29.37	7.43	36.90	32.20	54.00	-21.80	VERTICAL
2	3935.493	45.96	29.37	7.43	36.90	45.86	74.00	-28.14	VERTICAL
3	4824.993	35.87	30.85	6.15	36.94	35.93	54.00	-18.07	VERTICAL
4	4824.993	47.93	30.85	6.15	36.94	47.99	74.00	-26.01	VERTICAL
5	7236.114	29.64	35.55	7.35	36.93	35.61	54.00	-18.39	VERTICAL
6	7236.114	44.92	35.55	7.35	36.93	50.89	74.00	-23.11	VERTICAL
7	8663.404	31.85	36.22	7.95	36.96	39.06	54.00	-14.94	VERTICAL
8	8663.404	44.85	36.22	7.95	36.96	52.06	74.00	-21.94	VERTICAL
9	9648.149	32.62	37.54	8.18	37.08	41.26	54.00	-12.74	VERTICAL
10	9648.149	45.31	37.54	8.18	37.08	53.95	74.00	-20.05	VERTICAL
11	12060.950	28.43	39.46	10.71	37.17	41.43	54.00	-12.57	VERTICAL
12	12060.950	42.93	39.46	10.71	37.17	55.93	74.00	-18.07	VERTICAL



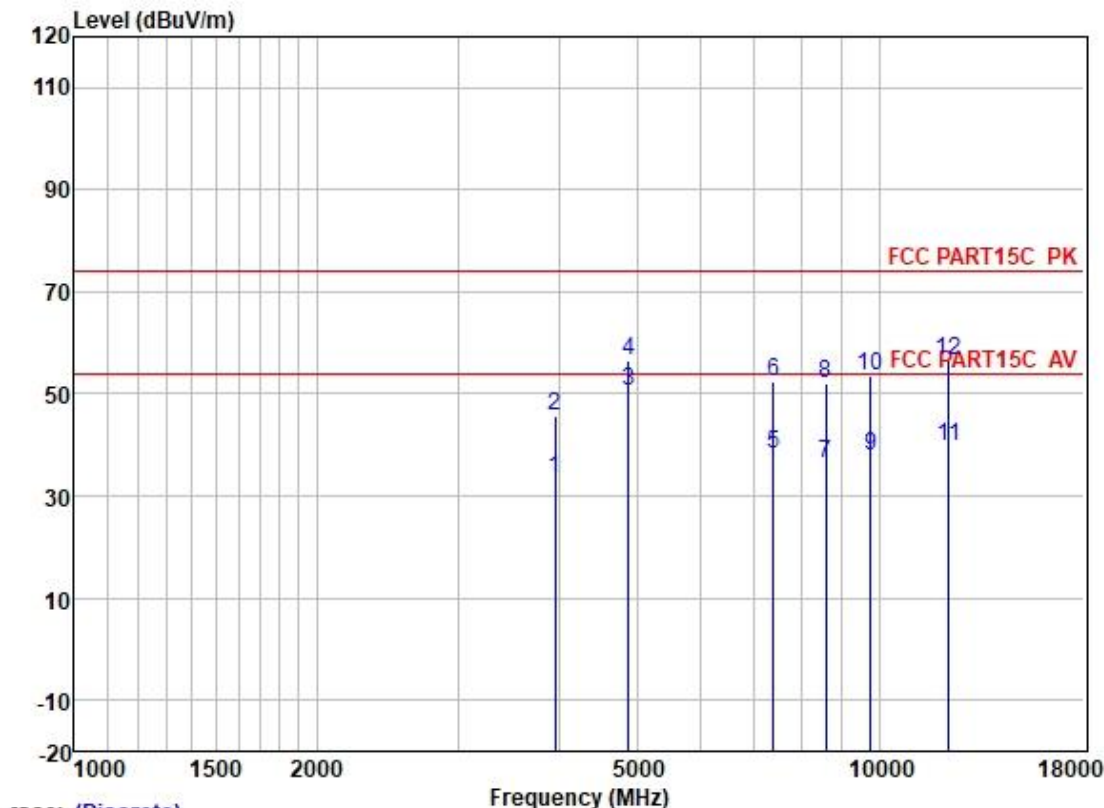
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3958.309	33.41	29.42	7.35	36.90	33.28	54.00	-20.72	HORIZONTAL Average
2	3958.309	45.90	29.42	7.35	36.90	45.77	74.00	-28.23	HORIZONTAL Peak
3	4883.894	49.64	30.95	6.86	36.95	50.50	54.00	-3.50	HORIZONTAL Average
4	4883.894	55.57	30.95	6.86	36.95	56.43	74.00	-17.57	HORIZONTAL Peak
5	7386.461	31.92	35.85	7.42	36.92	38.27	54.00	-15.73	HORIZONTAL Average
6	7386.461	45.91	35.85	7.42	36.92	52.26	74.00	-21.74	HORIZONTAL Peak
7	8588.607	29.12	36.16	7.98	36.95	36.31	54.00	-17.69	HORIZONTAL Average
8	8588.607	44.77	36.16	7.98	36.95	51.96	74.00	-22.04	HORIZONTAL Peak
9	9768.151	28.83	37.74	8.37	37.09	37.85	54.00	-16.15	HORIZONTAL Average
10	9768.151	44.43	37.74	8.37	37.09	53.45	74.00	-20.55	HORIZONTAL Peak
11	12210.600	26.45	39.21	10.98	37.06	39.58	54.00	-14.42	HORIZONTAL Average
12	12210.600	43.56	39.21	10.98	37.06	56.69	74.00	-17.31	HORIZONTAL Peak

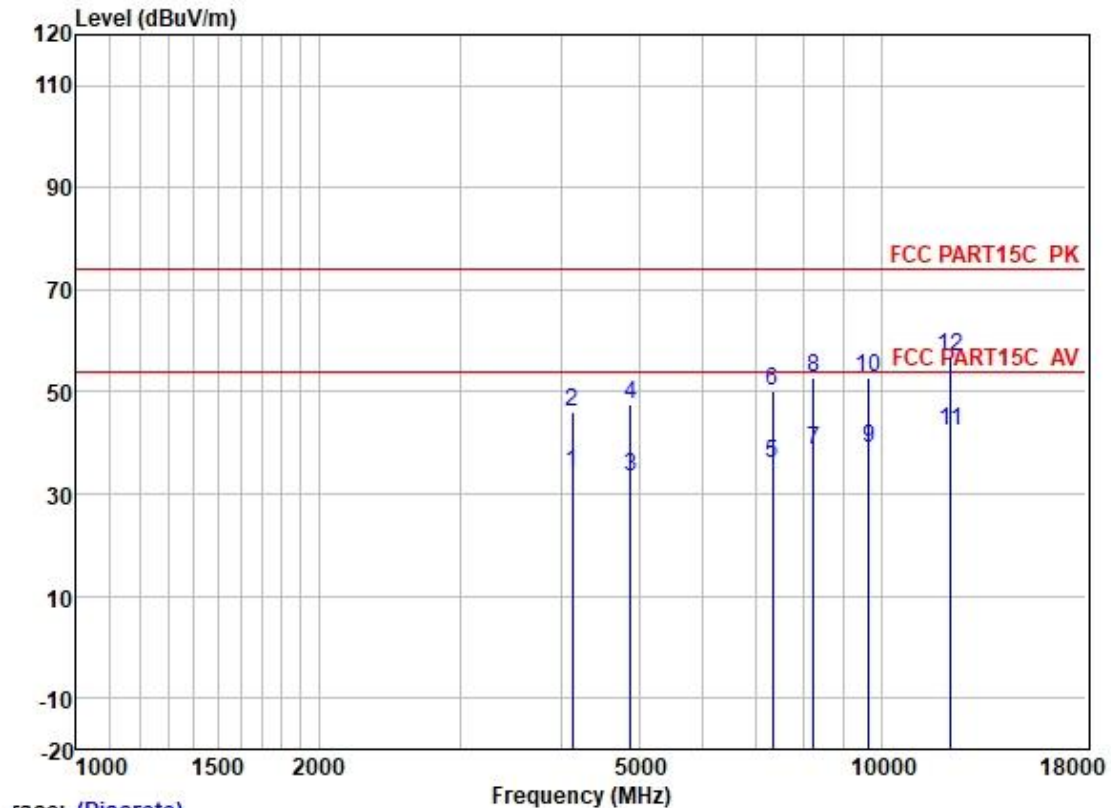


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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle

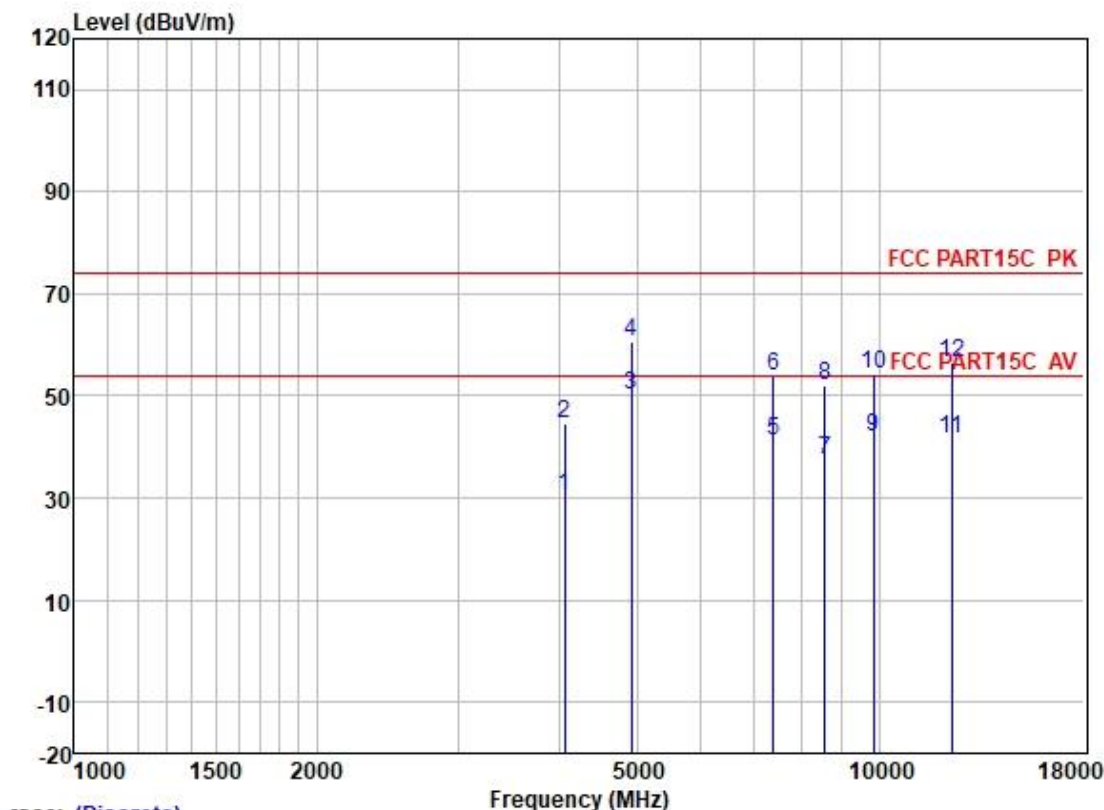


Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4133.699	34.73	29.62	6.79	36.90	34.24	54.00	-19.76	VERTICAL
2	4133.699	46.70	29.62	6.79	36.90	46.21	74.00	-27.79	VERTICAL
3	4884.497	32.66	30.95	6.86	36.95	33.52	54.00	-20.48	VERTICAL
4	4884.497	46.55	30.95	6.86	36.95	47.41	74.00	-26.59	VERTICAL
5	7326.999	29.71	35.74	7.39	36.92	35.92	54.00	-18.08	VERTICAL
6	7326.999	43.94	35.74	7.39	36.92	50.15	74.00	-23.85	VERTICAL
7	8248.005	31.13	36.30	8.21	36.92	38.72	54.00	-15.28	VERTICAL
8	8248.005	45.26	36.30	8.21	36.92	52.85	74.00	-21.15	VERTICAL
9	9648.540	30.49	37.54	8.18	37.08	39.13	54.00	-14.87	VERTICAL
10	9648.540	44.06	37.54	8.18	37.08	52.70	74.00	-21.30	VERTICAL
11	12210.600	29.23	39.21	10.98	37.06	42.36	54.00	-11.64	VERTICAL
12	12210.600	43.67	39.21	10.98	37.06	56.80	74.00	-17.20	VERTICAL



Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4062.629	30.65	29.55	7.06	36.90	30.36	54.00	-23.64	HORIZONTAL Average
2	4062.629	44.84	29.55	7.06	36.90	44.55	74.00	-29.45	HORIZONTAL Peak
3	4923.800	48.65	31.01	7.49	36.95	50.20	54.00	-3.80	HORIZONTAL Average
4	4923.800	58.96	31.01	7.49	36.95	60.51	74.00	-13.49	HORIZONTAL Peak
5	7386.461	34.87	35.85	7.42	36.92	41.22	54.00	-12.78	HORIZONTAL Average
6	7386.461	47.72	35.85	7.42	36.92	54.07	74.00	-19.93	HORIZONTAL Peak
7	8563.818	30.45	36.15	7.99	36.94	37.65	54.00	-16.35	HORIZONTAL Average
8	8563.818	44.84	36.15	7.99	36.94	52.04	74.00	-21.96	HORIZONTAL Peak
9	9848.430	32.87	37.82	8.46	37.09	42.06	54.00	-11.94	HORIZONTAL Average
10	9848.430	45.24	37.82	8.46	37.09	54.43	74.00	-19.57	HORIZONTAL Peak
11	12310.380	28.27	39.03	11.10	36.97	41.43	54.00	-12.57	HORIZONTAL Average
12	12310.380	43.22	39.03	11.10	36.97	56.38	74.00	-17.62	HORIZONTAL Peak

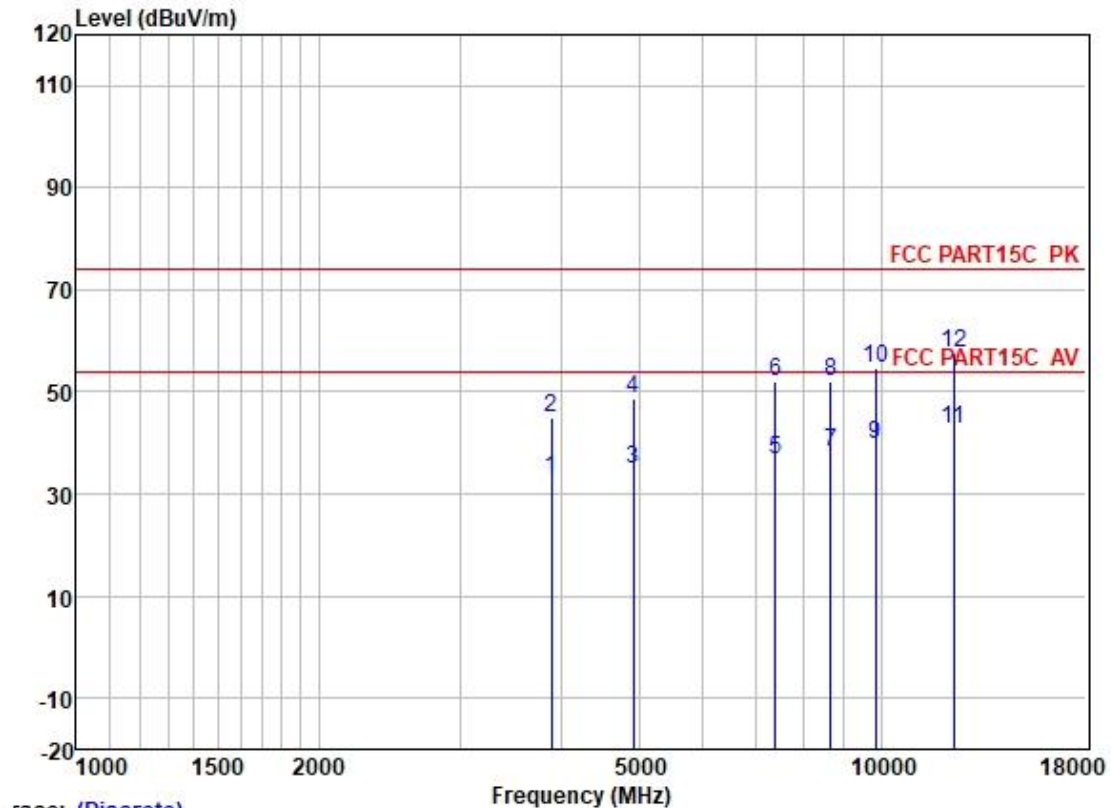


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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3890.255	33.22	29.27	7.61	36.91	33.19	54.00	-20.81	VERTICAL
2	3890.255	45.06	29.27	7.61	36.91	45.03	74.00	-28.97	VERTICAL
3	4924.058	33.34	31.01	7.49	36.95	34.89	54.00	-19.11	VERTICAL
4	4924.058	47.19	31.01	7.49	36.95	48.74	74.00	-25.26	VERTICAL
5	7386.474	30.27	35.85	7.42	36.92	36.62	54.00	-17.38	VERTICAL
6	7386.474	45.62	35.85	7.42	36.92	51.97	74.00	-22.03	VERTICAL
7	8663.404	30.93	36.22	7.95	36.96	38.14	54.00	-15.86	VERTICAL
8	8663.404	45.02	36.22	7.95	36.96	52.23	74.00	-21.77	VERTICAL
9	9848.390	30.46	37.82	8.46	37.09	39.65	54.00	-14.35	VERTICAL
10	9848.390	45.60	37.82	8.46	37.09	54.79	74.00	-19.21	VERTICAL
11	12310.610	29.47	39.03	11.10	36.97	42.63	54.00	-11.37	VERTICAL
12	12310.610	44.32	39.03	11.10	36.97	57.48	74.00	-16.52	VERTICAL

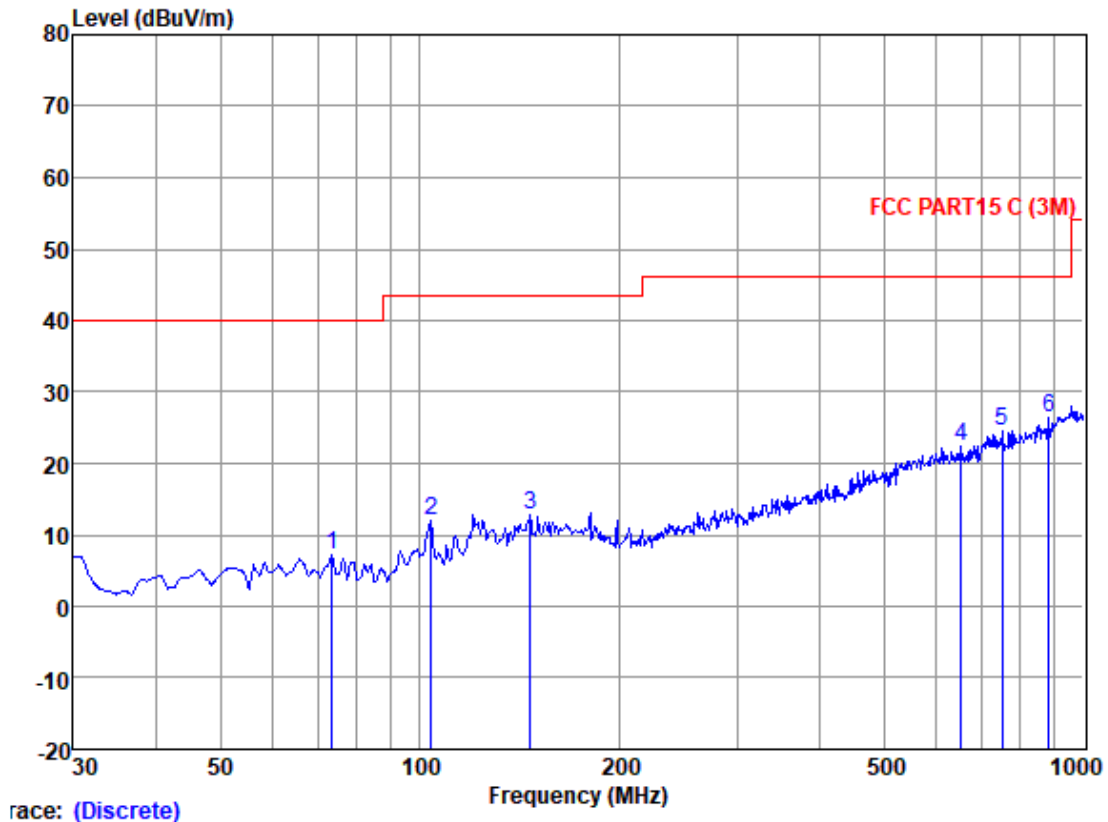


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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	73.617	25.90	10.09	0.75	29.41	7.33	40.00	-32.67	HORIZONTAL	QP
2	103.806	30.80	9.87	0.86	29.40	12.13	43.50	-31.37	HORIZONTAL	QP
3	146.374	27.87	13.18	1.12	29.40	12.77	43.50	-30.73	HORIZONTAL	QP
4	654.232	28.77	21.09	2.11	29.48	22.49	46.00	-23.51	HORIZONTAL	QP
5	752.743	28.88	22.16	2.96	29.41	24.59	46.00	-21.41	HORIZONTAL	QP
6	887.610	28.48	23.90	2.88	28.79	26.47	46.00	-19.53	HORIZONTAL	QP

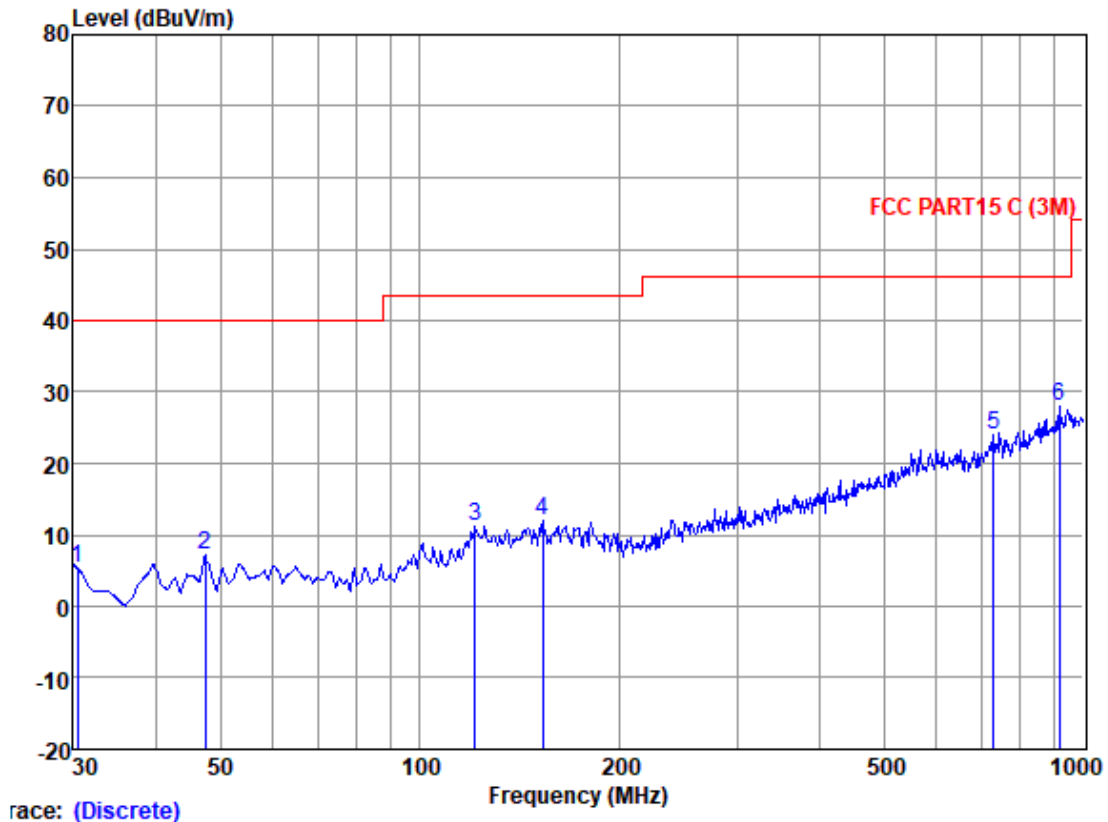


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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	30.424	22.83	12.21	0.06	29.84	5.26	40.00	-34.74	VERTICAL	QP
2	47.492	23.15	12.94	0.65	29.51	7.23	40.00	-32.77	VERTICAL	QP
3	121.123	28.23	11.57	0.92	29.40	11.32	43.50	-32.18	VERTICAL	QP
4	153.200	26.97	13.32	1.22	29.40	12.11	43.50	-31.39	VERTICAL	QP
5	731.920	28.14	21.76	3.42	29.42	23.90	46.00	-22.10	VERTICAL	QP
6	919.287	28.66	24.16	3.74	28.43	28.13	46.00	-17.87	VERTICAL	QP

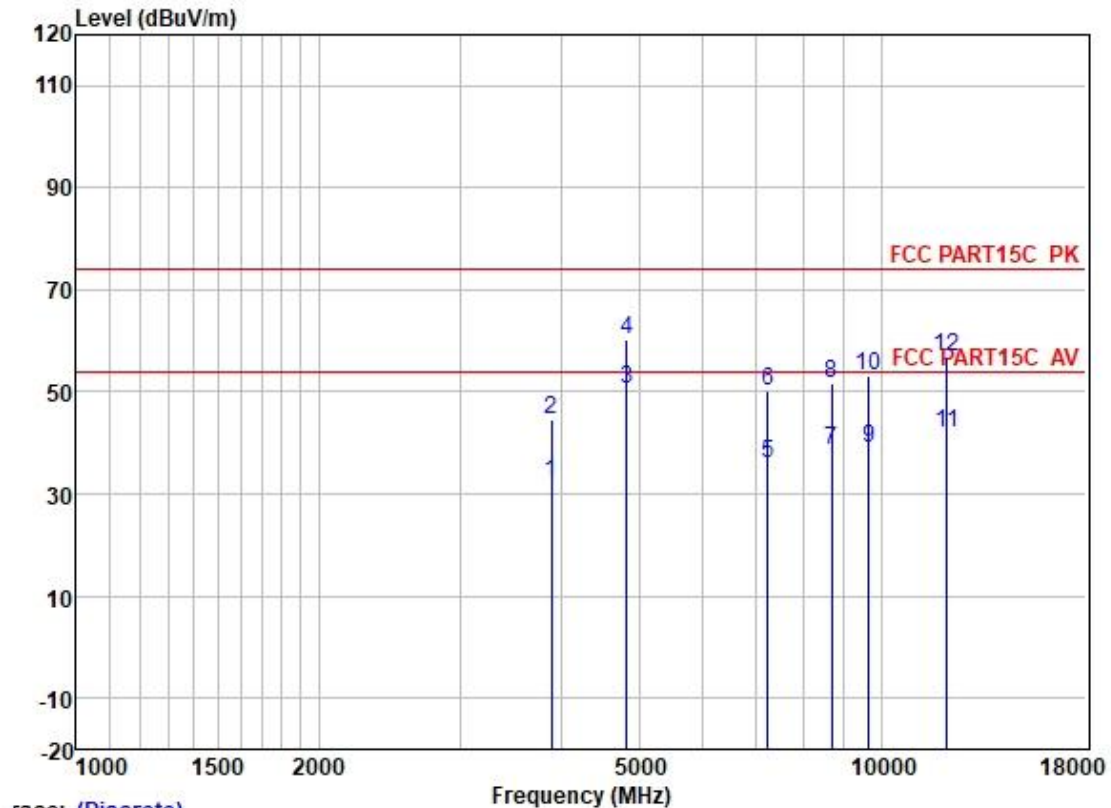


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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3890.255	32.24	29.27	7.61	36.91	32.21	54.00	-21.79	HORIZONTAL Average
2	3890.255	44.59	29.27	7.61	36.91	44.56	74.00	-29.44	HORIZONTAL Peak
3	4823.298	50.66	30.82	6.01	36.94	50.55	54.00	-3.45	HORIZONTAL Average
4	4823.298	60.46	30.82	6.01	36.94	60.35	74.00	-13.65	HORIZONTAL Peak
5	7236.309	30.11	35.55	7.35	36.93	36.08	54.00	-17.92	HORIZONTAL Average
6	7236.309	44.27	35.55	7.35	36.93	50.24	74.00	-23.76	HORIZONTAL Peak
7	8688.480	31.32	36.25	7.94	36.96	38.55	54.00	-15.45	HORIZONTAL Average
8	8688.480	44.28	36.25	7.94	36.96	51.51	74.00	-22.49	HORIZONTAL Peak
9	9648.684	30.20	37.54	8.18	37.08	38.84	54.00	-15.16	HORIZONTAL Average
10	9648.684	44.67	37.54	8.18	37.08	53.31	74.00	-20.69	HORIZONTAL Peak
11	12060.350	28.96	39.46	10.71	37.17	41.96	54.00	-12.04	HORIZONTAL Average
12	12060.350	43.75	39.46	10.71	37.17	56.75	74.00	-17.25	HORIZONTAL Peak

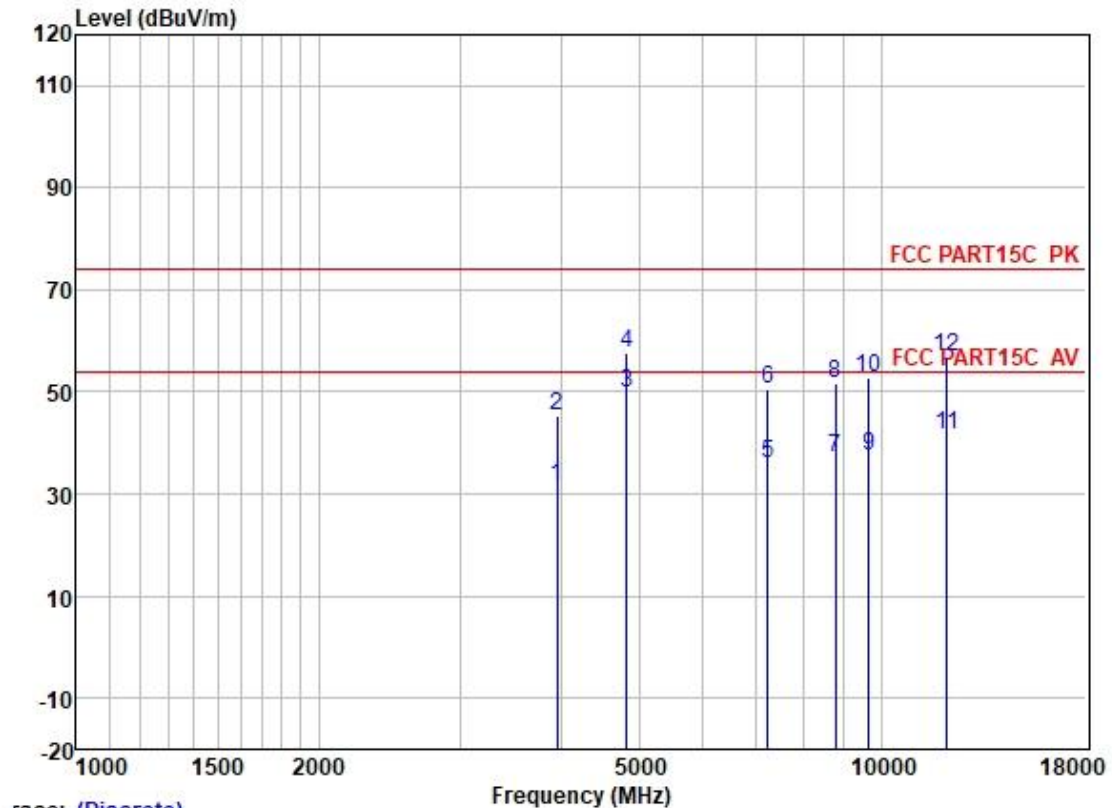


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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	3958.309	31.69	29.42	7.35	36.90	31.56	54.00	-22.44	VERTICAL
2	3958.309	45.46	29.42	7.35	36.90	45.33	74.00	-28.67	VERTICAL
3	4824.016	50.07	30.82	6.01	36.94	49.96	54.00	-4.04	VERTICAL
4	4824.016	57.75	30.82	6.01	36.94	57.64	74.00	-16.36	VERTICAL
5	7236.015	30.12	35.55	7.35	36.93	36.09	54.00	-17.91	VERTICAL
6	7236.015	44.65	35.55	7.35	36.93	50.62	74.00	-23.38	VERTICAL
7	8764.146	29.63	36.33	8.00	36.97	36.99	54.00	-17.01	VERTICAL
8	8764.146	44.22	36.33	8.00	36.97	51.58	74.00	-22.42	VERTICAL
9	9648.018	28.89	37.54	8.18	37.08	37.53	54.00	-16.47	VERTICAL
10	9648.018	44.14	37.54	8.18	37.08	52.78	74.00	-21.22	VERTICAL
11	12060.350	28.62	39.46	10.71	37.17	41.62	54.00	-12.38	VERTICAL
12	12060.350	43.79	39.46	10.71	37.17	56.79	74.00	-17.21	VERTICAL



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