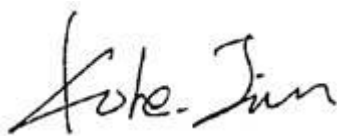


TEST REPORT

Application No.: GZEM2007013909CR
Applicant: Breville Pty Ltd
Address of Applicant: Suite 2,170-180 Bourke Rd, Alexandria, NSW, 2015, Australia
Manufacturer: SUN CUPID INDUSTRIES LIMITED
Address of Manufacturer: 16/F, CEO TOWER,77 WING HONG STREET, CHEUNG SHA WAN, HONG KONG
Factory: Shenzhen Sun Cupid Industries Ltd. Longgang Branch
Address of Factory: No. 7, Gao Ke Blvd., Bao Long Sub-district, Long Gang District, Shen Zhen, Guang Dong, China
Equipment Under Test (EUT):
EUT Name: Toaster Oven
Model No.: BOV950
Trade Mark: Breville
Standard(s): 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2020-07-23
Date of Test: 2020-07-30 to 2020-08-11
Date of Issue: 2020-09-11

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Kobe Jian

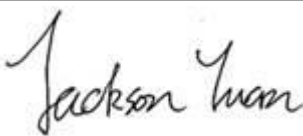
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-09-11		Original

Authorized for issue by:			
Tested By	 Jackson_Yuan /Project Engineer		2020-07-30 to 2020-08-11
			Date
Checked By	 Ricky_Liu /Reviewer		2020-09-11
			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 C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	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 15.205 & 15.209	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 15.205 & 15.209	Pass



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4 General Information

4.1 Details of E.U.T.

Power Supply: AC 120 V, 60 Hz
 Test Voltage: AC 120 V, 60 Hz
 Cable: AC mains (unshielded, 1.2m)
 For BT BLE
 BT Version V4.2 for BLE only declared by applicant
 Antenna Gain: 5.5 dBi declared by applicant
 Antenna Type: Integral Antenna
 Channel Spacing: 2MHz
 Modulation Type: GFSK
 Number of Channels: 40
 Operation Frequency: 2402MHz to 2480MHz
 For Wi-Fi
 Antenna Gain: 5.5 dBi declared by applicant
 Antenna Type: Integral 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
 S/N: 115-01-0236
 Hardware: B900-354-MP8
 Firmware: SV1.0
 Test Software: ESP32
 Power Setting: 10dBm for BLE, 23 dBm for Wi-Fi can not be changed by user

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800



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4.3 Measurement Uncertainty

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	$\pm 3\%$

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

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch EMC Laboratory

No. 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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-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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5 Equipment List

Conducted Emissions at AC Power Line (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	2020-01-10	2021-01-09
LISN	Rohde & Schwarz	ENV216	EMC2135	2019-09-16	2020-09-15
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2019-11-18	2020-11-17
Coaxial Cable	HangTianXing	2m	EMC0107	2018-09-20	2020-09-19
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	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A



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MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2019-11-18	2020-11-17
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

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	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2020-06-08	2023-06-07
Horn Antenna	SCHWARZBECKME SS-ELEKTRONIK	BBHA 9120D	EMC2016	2019-09-25	2022-09-24
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2020-05-26	2021-05-25
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2021-03-04
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
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	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2020-06-08	2023-06-07
Horn Antenna	SCHWARZBECKME SS-ELEKTRONIK	BBHA 9120D	EMC2016	2019-09-25	2022-09-24



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Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2020-05-26	2021-05-25
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2021-03-04
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
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	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
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	2020-07-09	2021-07-08
DMM	Fluke	73	EMC0007	2020-07-09	2021-07-08



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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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 5.5dBi.



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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

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.

7.1.1 E.U.T. Operation

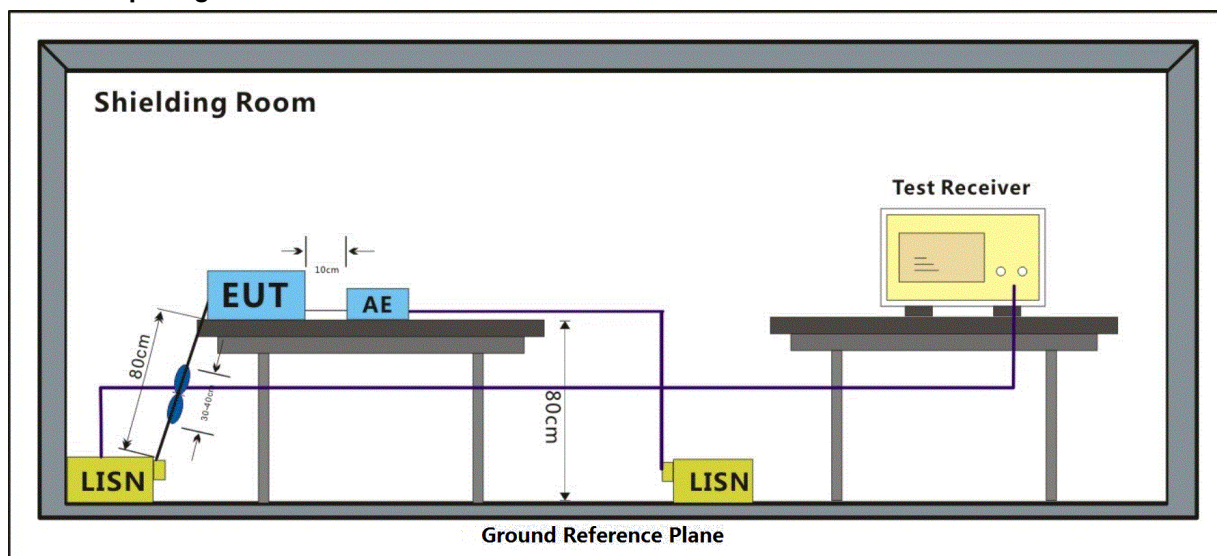
Operating Environment:

Temperature: 25 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation &

c: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



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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.

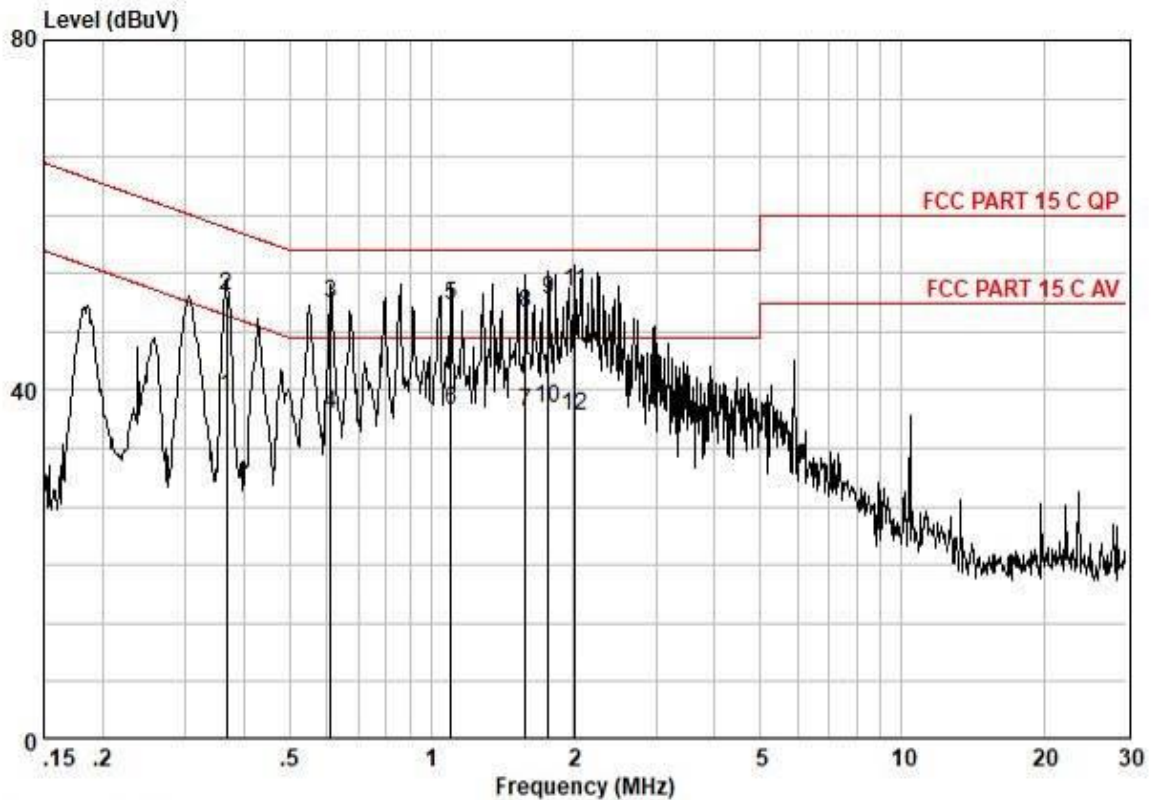
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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Mode:b+c; Line:Live Line



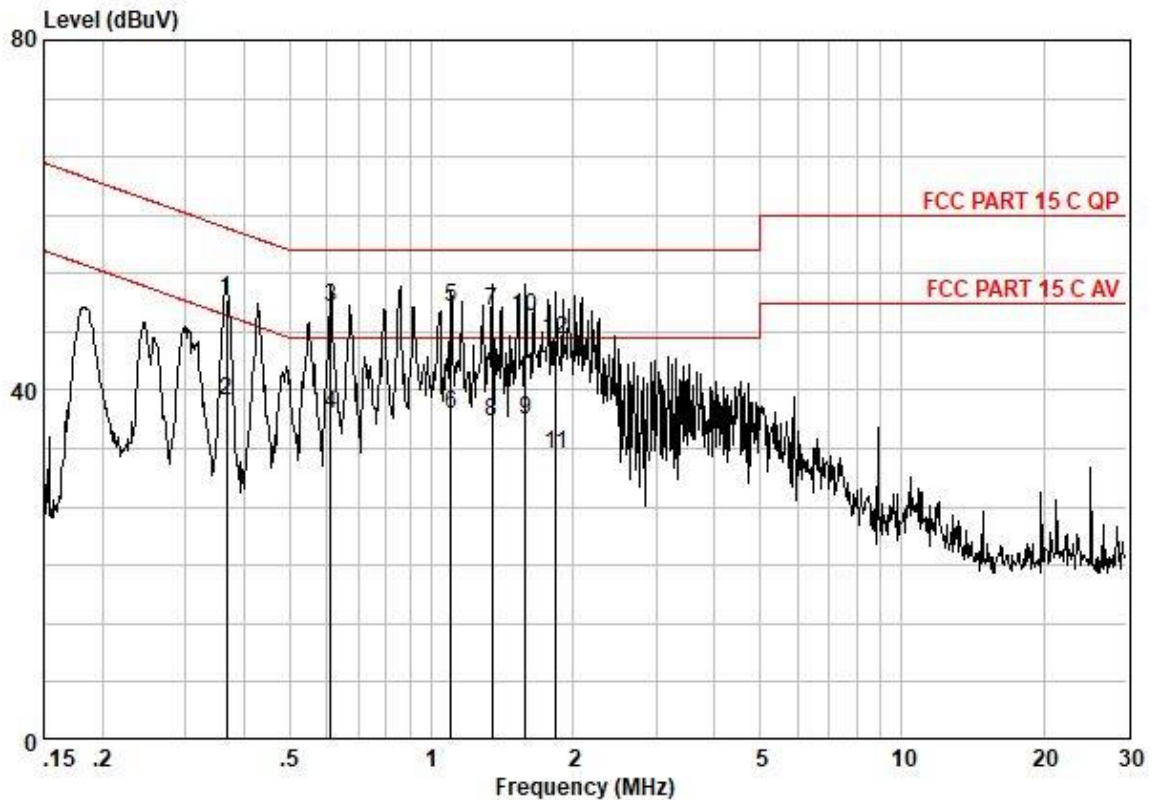
Pol	:LIVE						
No	:						
Model	:						
Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.37	29.61	0.10	9.60	39.31	48.56	-9.25	AVERAGE
0.37	41.08	0.10	9.60	50.78	58.56	-7.78	QP
0.61	40.13	0.10	9.61	49.84	56.00	-6.16	QP
0.61	27.67	0.10	9.61	37.38	46.00	-8.62	AVERAGE
1.10	39.95	0.10	9.61	49.66	56.00	-6.34	QP
1.10	27.90	0.10	9.61	37.61	46.00	-8.39	AVERAGE
1.59	27.71	0.10	9.61	37.42	46.00	-8.58	AVERAGE
1.59	39.22	0.10	9.61	48.93	56.00	-7.07	QP
1.77	40.57	0.10	9.62	50.29	56.00	-5.71	QP
1.77	28.25	0.10	9.62	37.97	46.00	-8.03	AVERAGE
2.02	41.49	0.10	9.62	51.21	56.00	-4.79	QP
2.02	27.41	0.10	9.62	37.13	46.00	-8.87	AVERAGE



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Mode: b+c; Line: 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
0.37	40.72	0.10	9.63	50.45	58.56	-8.11	QP
0.37	29.13	0.10	9.63	38.86	48.56	-9.70	AVERAGE
0.61	39.81	0.10	9.65	49.56	56.00	-6.44	QP
0.61	27.48	0.10	9.65	37.23	46.00	-8.77	AVERAGE
1.10	39.61	0.10	9.68	49.40	56.00	-6.61	QP
1.10	27.57	0.10	9.68	37.36	46.00	-8.65	AVERAGE
1.34	39.35	0.10	9.70	49.15	56.00	-6.86	QP
1.34	26.55	0.10	9.70	36.35	46.00	-9.65	AVERAGE
1.59	26.80	0.10	9.71	36.61	46.00	-9.39	AVERAGE
1.59	38.64	0.10	9.71	48.45	56.00	-7.55	QP
1.84	22.91	0.10	9.72	32.73	46.00	-13.27	AVERAGE
1.84	35.88	0.10	9.72	45.70	56.00	-10.30	QP



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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: ≥ 500 kHz

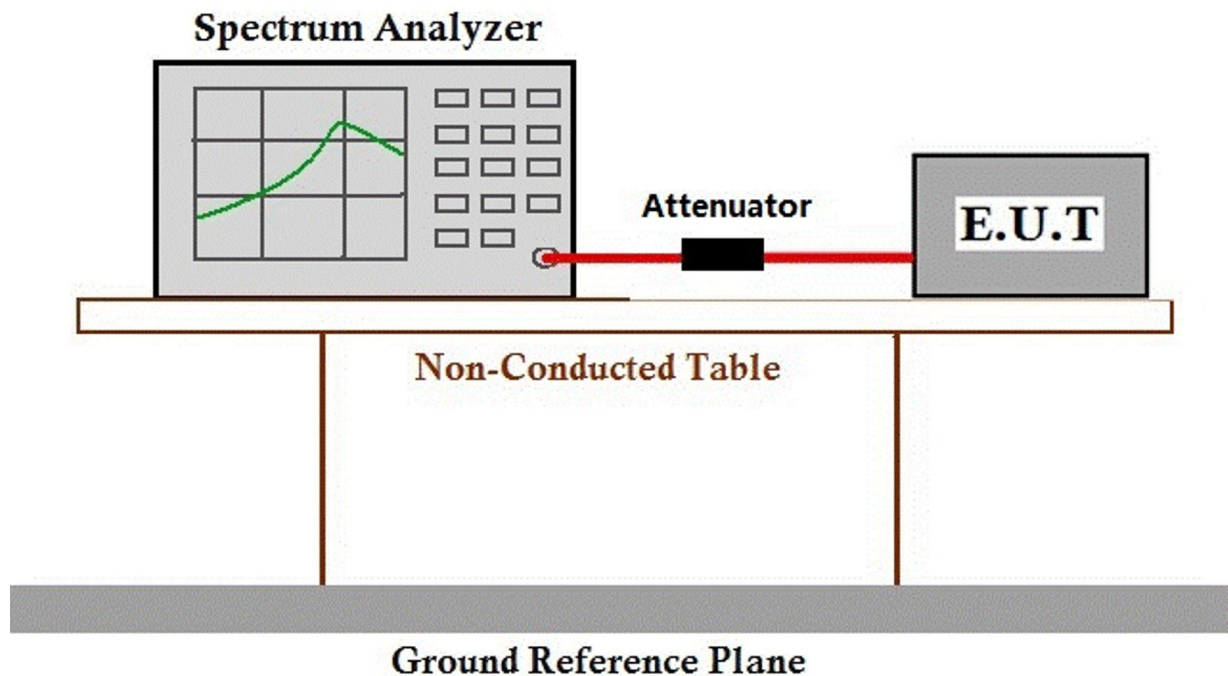
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 56.2 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
 c: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



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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 ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 56.2 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
c: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.



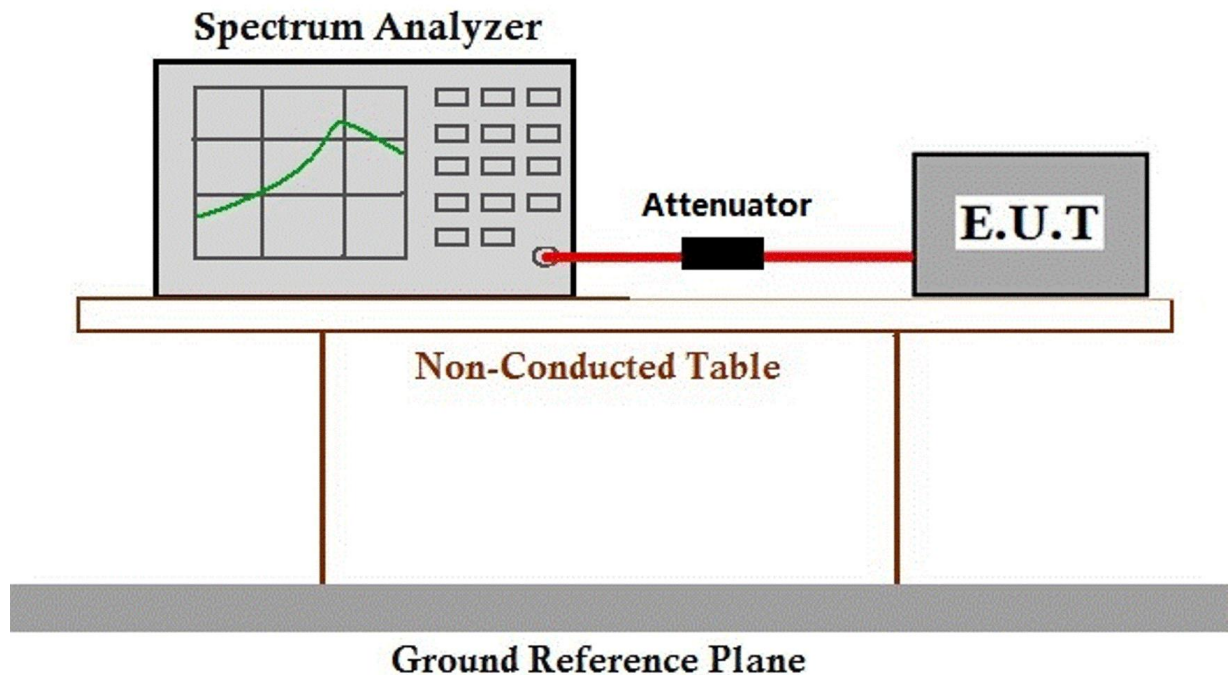
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7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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

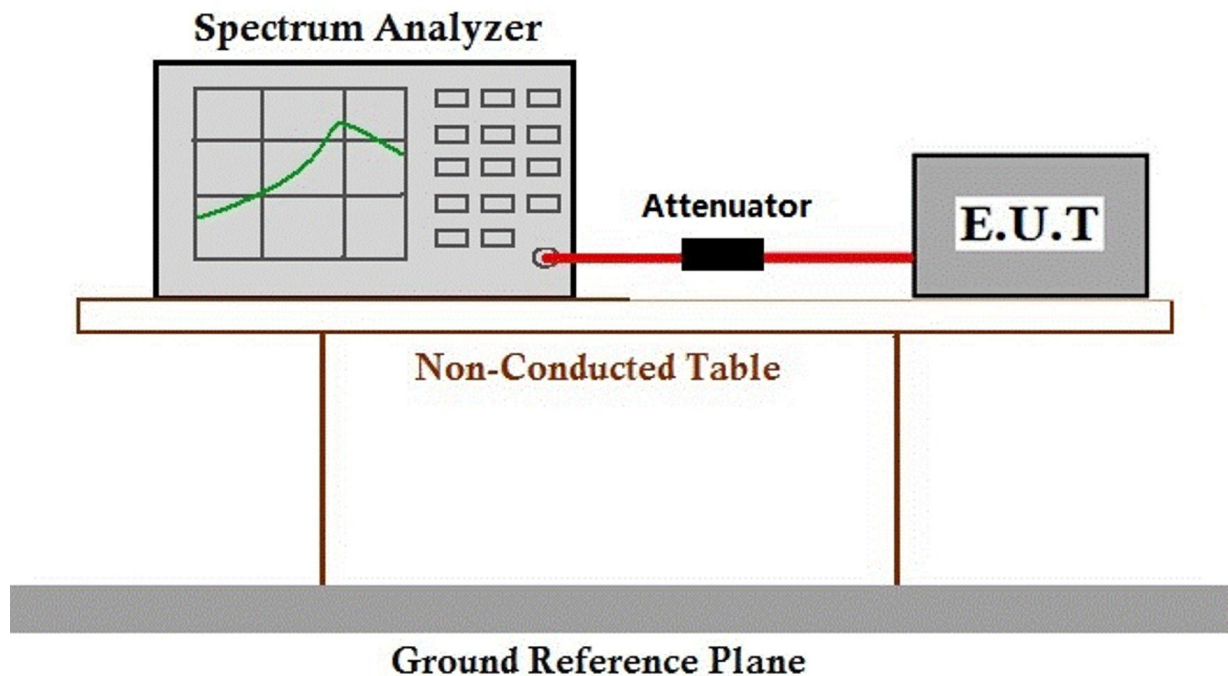
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 56.1 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
 c: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



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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:

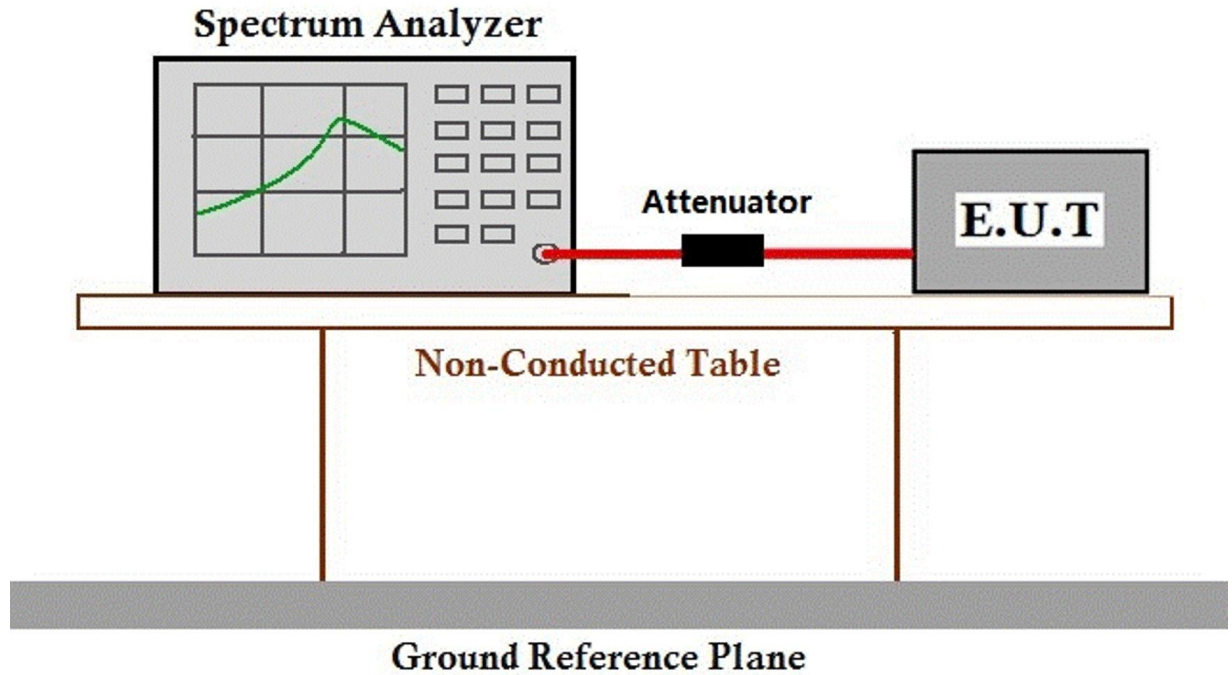
Temperature:	24.9 °C	Humidity:	56.2 % RH	Atmospheric Pressure:	1020 mbar
Test Mode:	b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation c:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested 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.				



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7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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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: 24.9 °C Humidity: 56.1 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
 c: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.

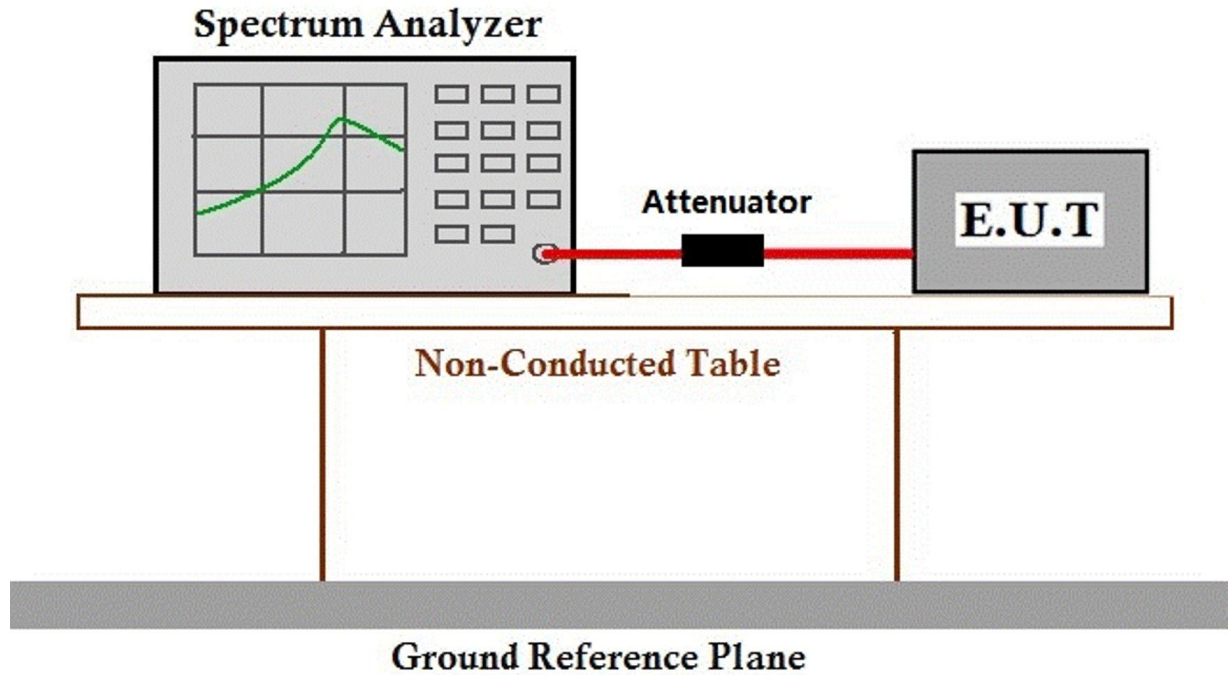


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7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.7 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

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.

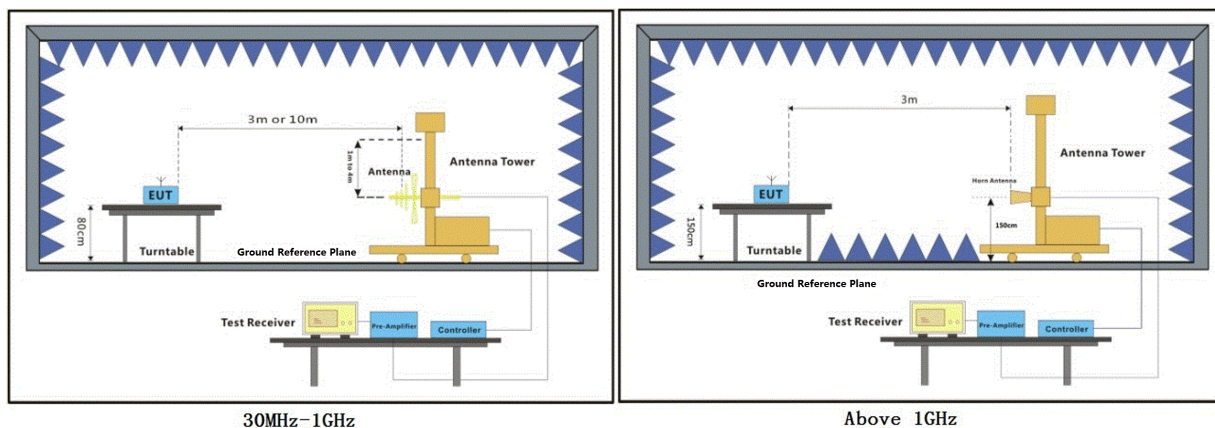
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 26.2 °C Humidity: 58.3 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
c: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



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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.

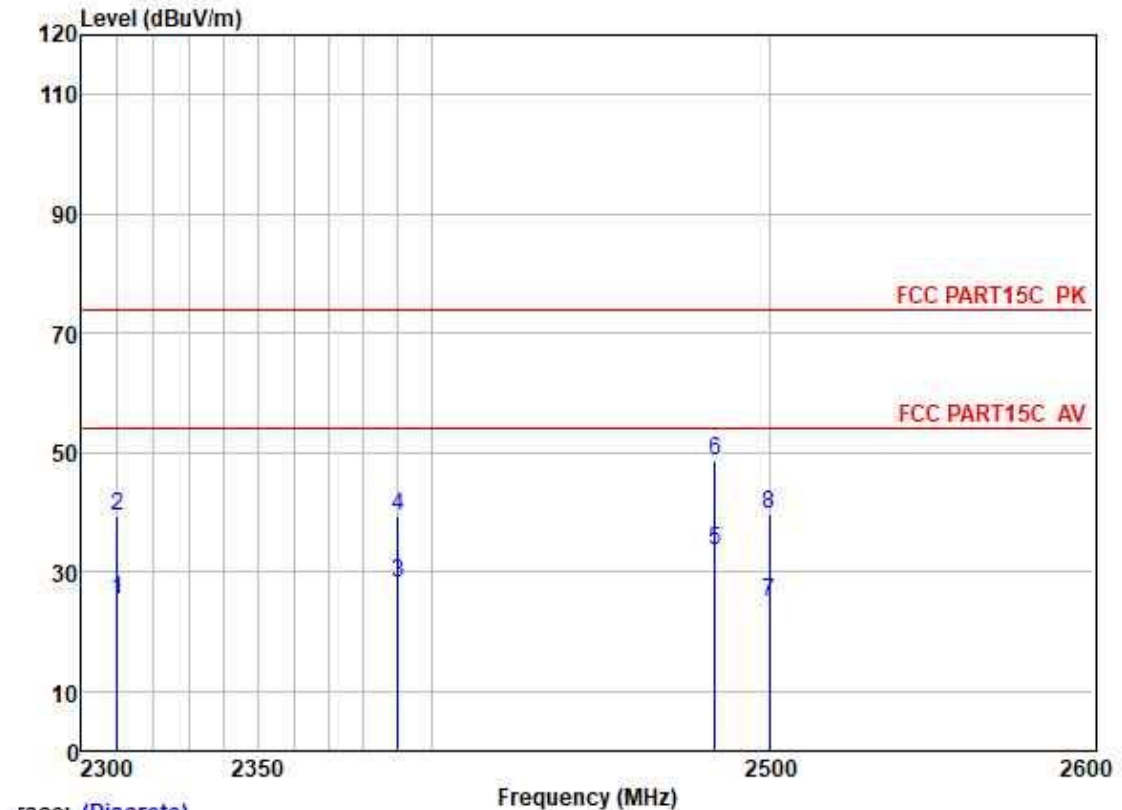
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



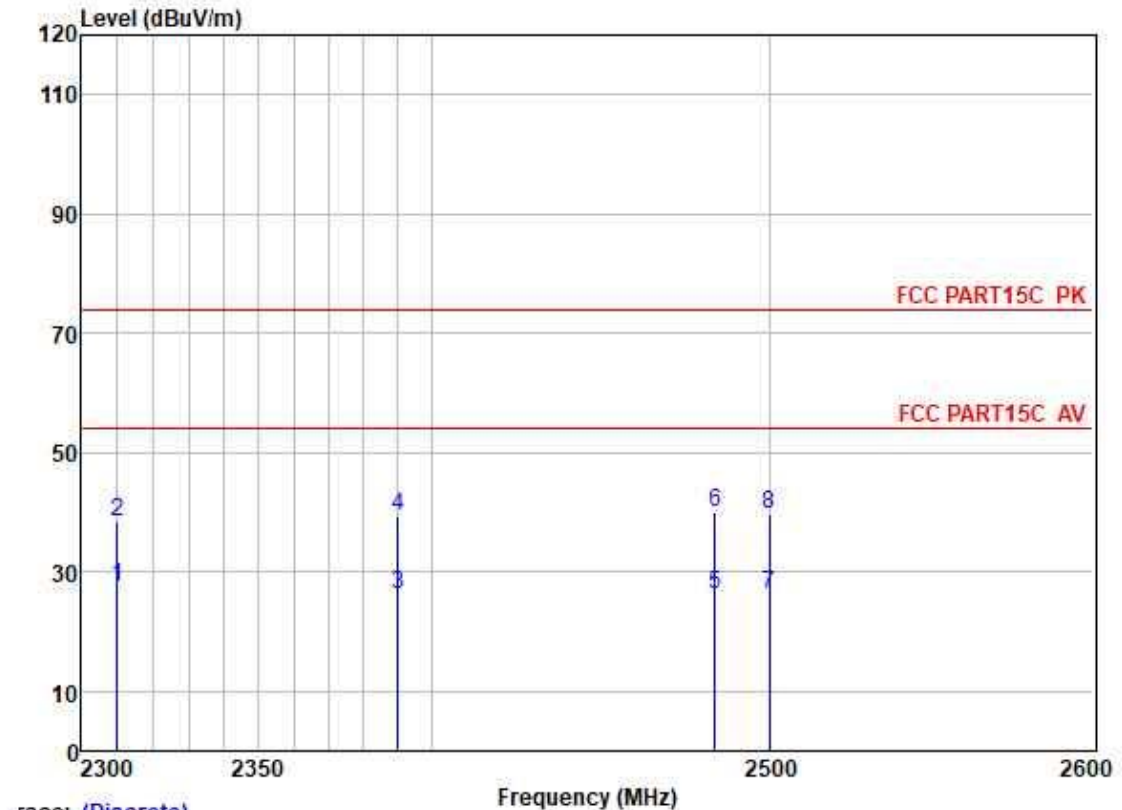
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	31.76	27.15	3.32	36.94	25.29	54.00	-28.71	HORIZONTAL Average
2	2310.000	45.82	27.15	3.32	36.94	39.35	74.00	-34.65	HORIZONTAL Peak
3	2390.000	34.29	27.33	3.48	36.92	28.18	54.00	-25.82	HORIZONTAL Average
4	2390.000	45.60	27.33	3.48	36.92	39.49	74.00	-34.51	HORIZONTAL Peak
5	2483.500	39.47	27.48	3.53	36.90	33.58	54.00	-20.42	HORIZONTAL Average
6	2483.500	54.47	27.48	3.53	36.90	48.58	74.00	-25.42	HORIZONTAL Peak
7	2500.000	30.94	27.50	3.40	36.89	24.95	54.00	-29.05	HORIZONTAL Average
8	2500.000	45.58	27.50	3.40	36.89	39.59	74.00	-34.41	HORIZONTAL Peak



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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

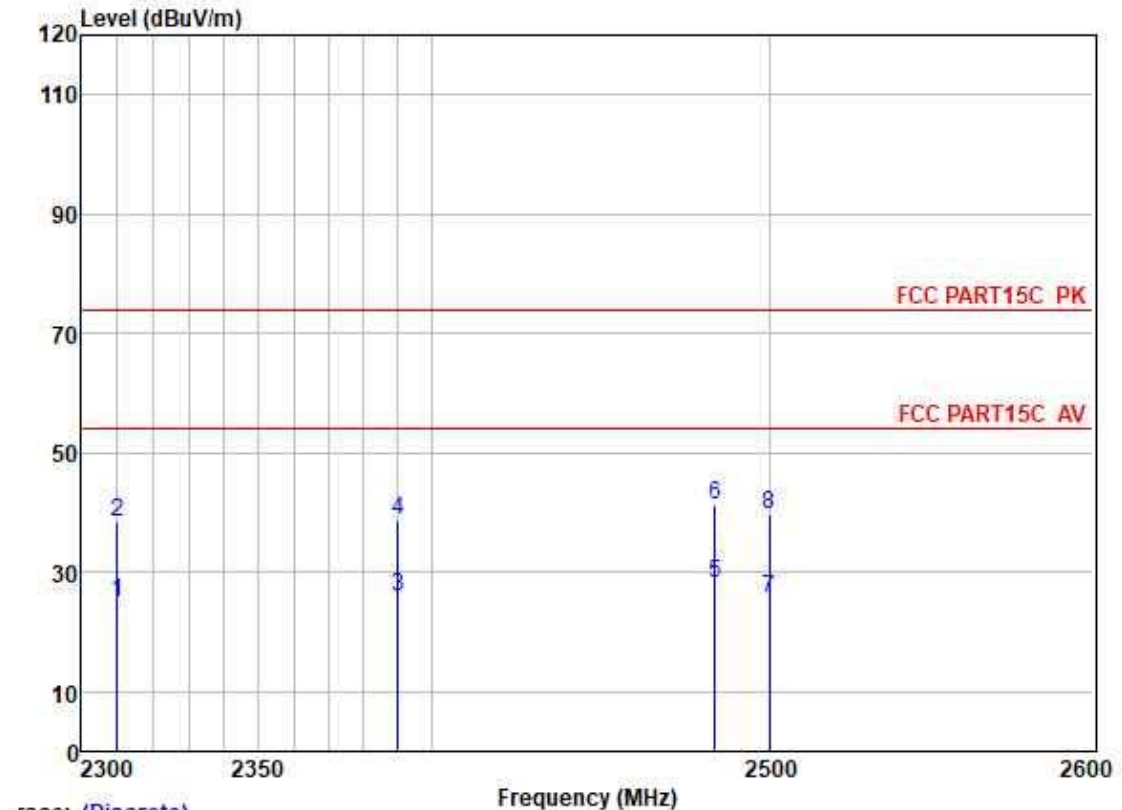
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	34.09	27.15	3.32	36.94	27.62	54.00	-26.38	VERTICAL	Average
2	2310.000	45.03	27.15	3.32	36.94	38.56	74.00	-35.44	VERTICAL	Peak
3	2390.000	32.36	27.33	3.48	36.92	26.25	54.00	-27.75	VERTICAL	Average
4	2390.000	45.50	27.33	3.48	36.92	39.39	74.00	-34.61	VERTICAL	Peak
5	2483.500	32.24	27.48	3.53	36.90	26.35	54.00	-27.65	VERTICAL	Average
6	2483.500	46.04	27.48	3.53	36.90	40.15	74.00	-33.85	VERTICAL	Peak
7	2500.000	32.21	27.50	3.40	36.89	26.22	54.00	-27.78	VERTICAL	Average
8	2500.000	45.68	27.50	3.40	36.89	39.69	74.00	-34.31	VERTICAL	Peak



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

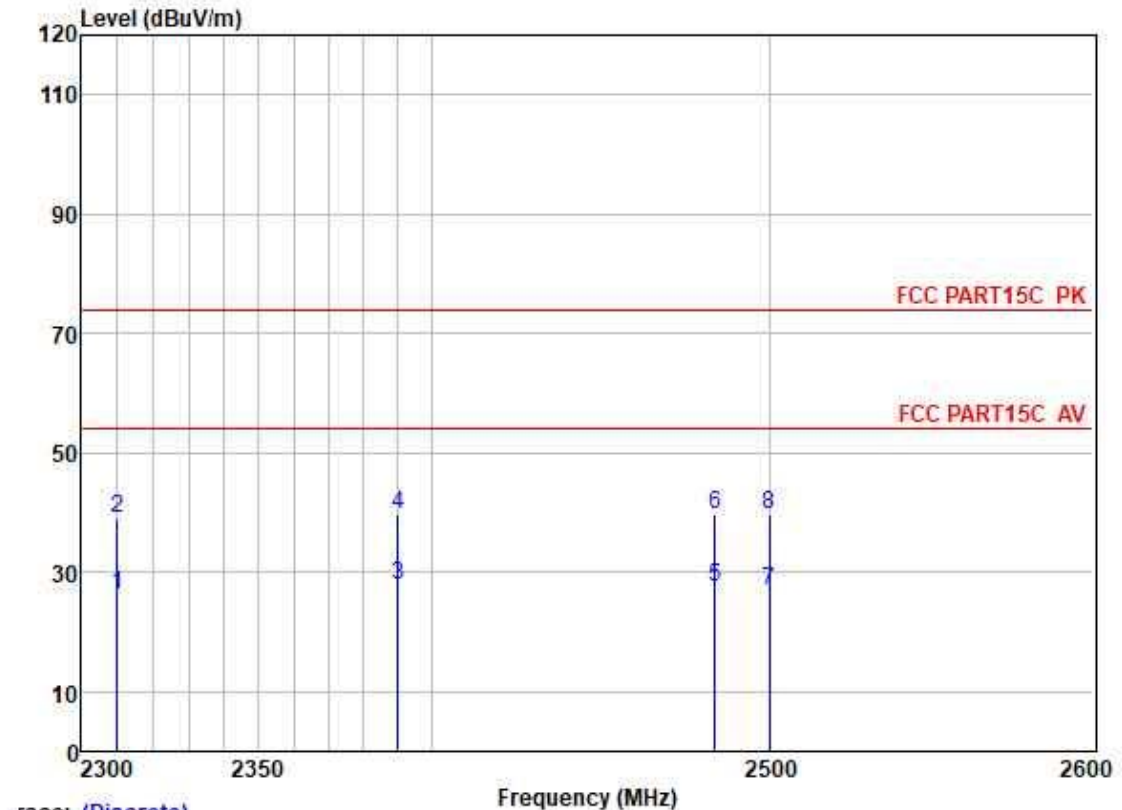
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Remark
1	2310.000	31.45	27.15	3.32	36.94	24.98	54.00	-29.02	HORIZONTAL Average
2	2310.000	44.83	27.15	3.32	36.94	38.36	74.00	-35.64	HORIZONTAL Peak
3	2390.000	31.92	27.33	3.48	36.92	25.81	54.00	-28.19	HORIZONTAL Average
4	2390.000	44.96	27.33	3.48	36.92	38.85	74.00	-35.15	HORIZONTAL Peak
5	2483.500	34.18	27.48	3.53	36.90	28.29	54.00	-25.71	HORIZONTAL Average
6	2483.500	47.26	27.48	3.53	36.90	41.37	74.00	-32.63	HORIZONTAL Peak
7	2500.000	31.58	27.50	3.40	36.89	25.59	54.00	-28.41	HORIZONTAL Average
8	2500.000	45.67	27.50	3.40	36.89	39.68	74.00	-34.32	HORIZONTAL Peak



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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

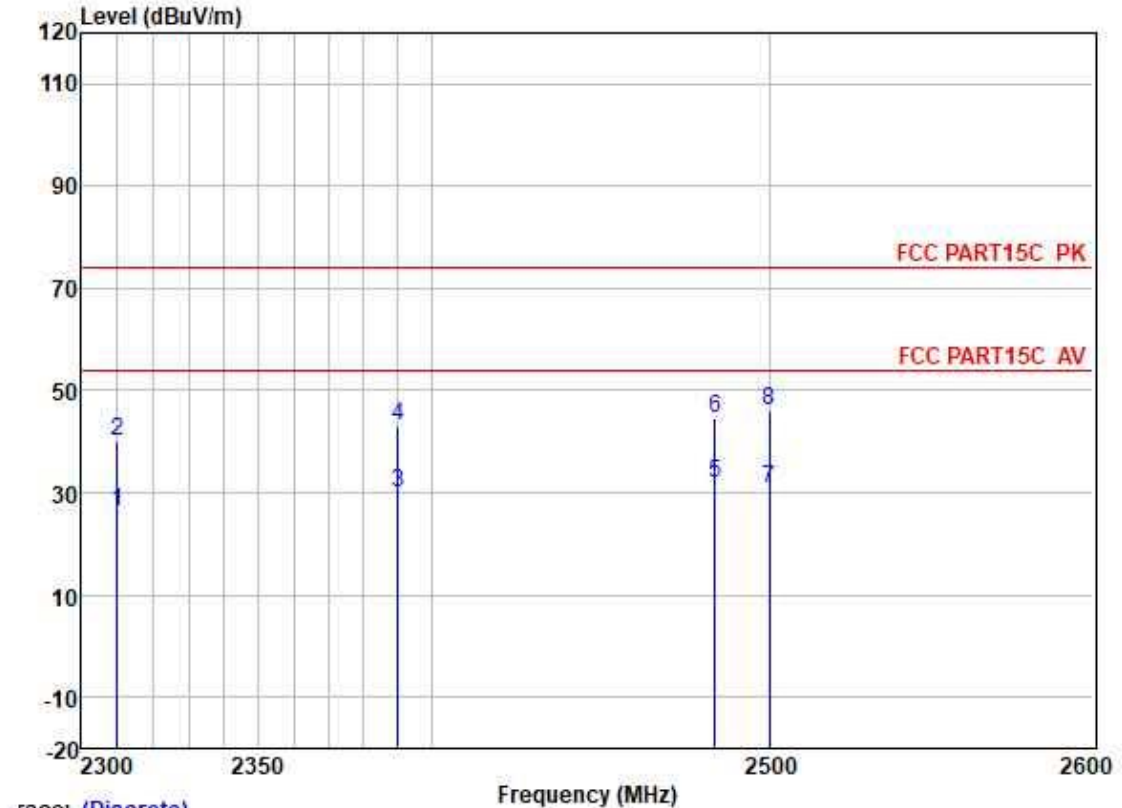
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	32.63	27.15	3.32	36.94	26.16	54.00	-27.84	VERTICAL	Average
2	2310.000	45.47	27.15	3.32	36.94	39.00	74.00	-35.00	VERTICAL	Peak
3	2390.000	34.06	27.33	3.48	36.92	27.95	54.00	-26.05	VERTICAL	Average
4	2390.000	45.84	27.33	3.48	36.92	39.73	74.00	-34.27	VERTICAL	Peak
5	2483.500	33.38	27.48	3.53	36.90	27.49	54.00	-26.51	VERTICAL	Average
6	2483.500	45.63	27.48	3.53	36.90	39.74	74.00	-34.26	VERTICAL	Peak
7	2500.000	32.78	27.50	3.40	36.89	26.79	54.00	-27.21	VERTICAL	Average
8	2500.000	45.67	27.50	3.40	36.89	39.68	74.00	-34.32	VERTICAL	Peak



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



Trace: (Discrete)

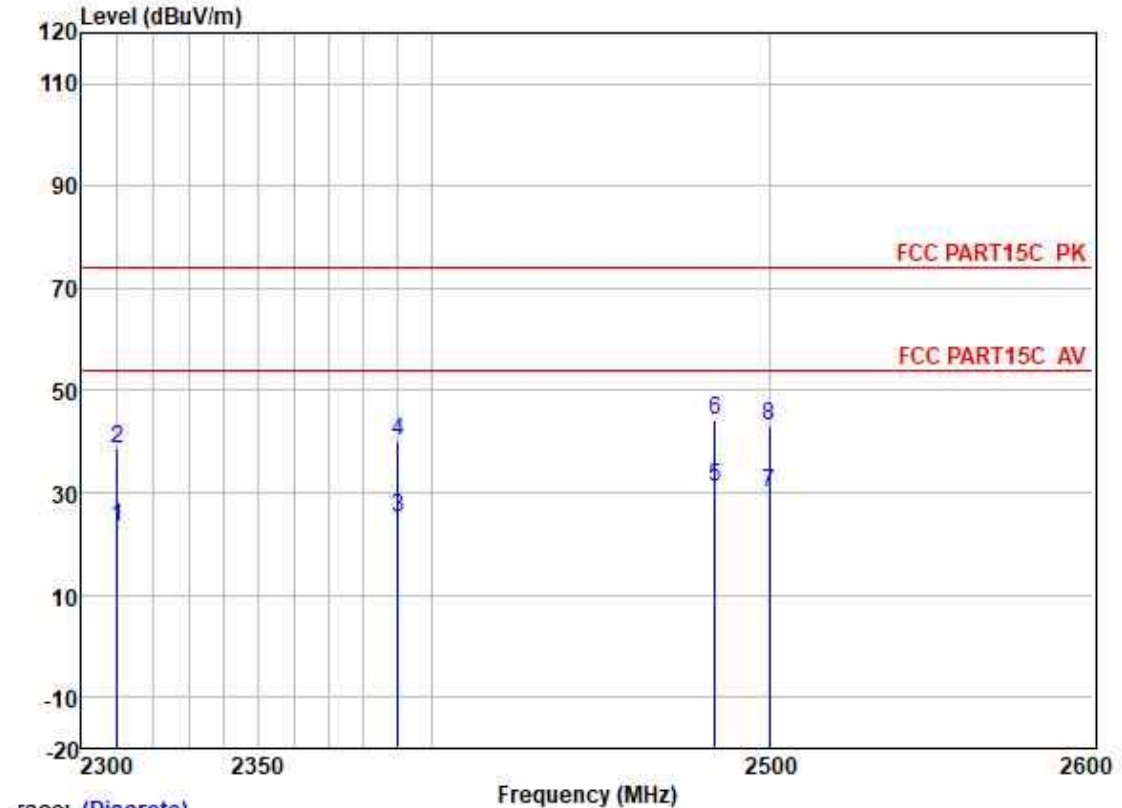
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2310.000	32.48	26.25	5.03	37.44	26.32	54.00	-27.68	HORIZONTAL	Average
2 2310.000	46.21	26.25	5.03	37.44	40.05	74.00	-33.95	HORIZONTAL	Peak
3 2390.000	35.96	26.43	4.88	37.42	29.85	54.00	-24.15	HORIZONTAL	Average
4 2390.000	49.34	26.43	4.88	37.42	43.23	74.00	-30.77	HORIZONTAL	Peak
5 2483.500	37.57	26.58	5.23	37.40	31.98	54.00	-22.02	HORIZONTAL	Average
6 2483.500	50.08	26.58	5.23	37.40	44.49	74.00	-29.51	HORIZONTAL	Peak
7 2500.000	36.54	26.60	4.95	37.39	30.70	54.00	-23.30	HORIZONTAL	Average
8 2500.000	51.90	26.60	4.95	37.39	46.06	74.00	-27.94	HORIZONTAL	Peak



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



Trace: (Discrete)

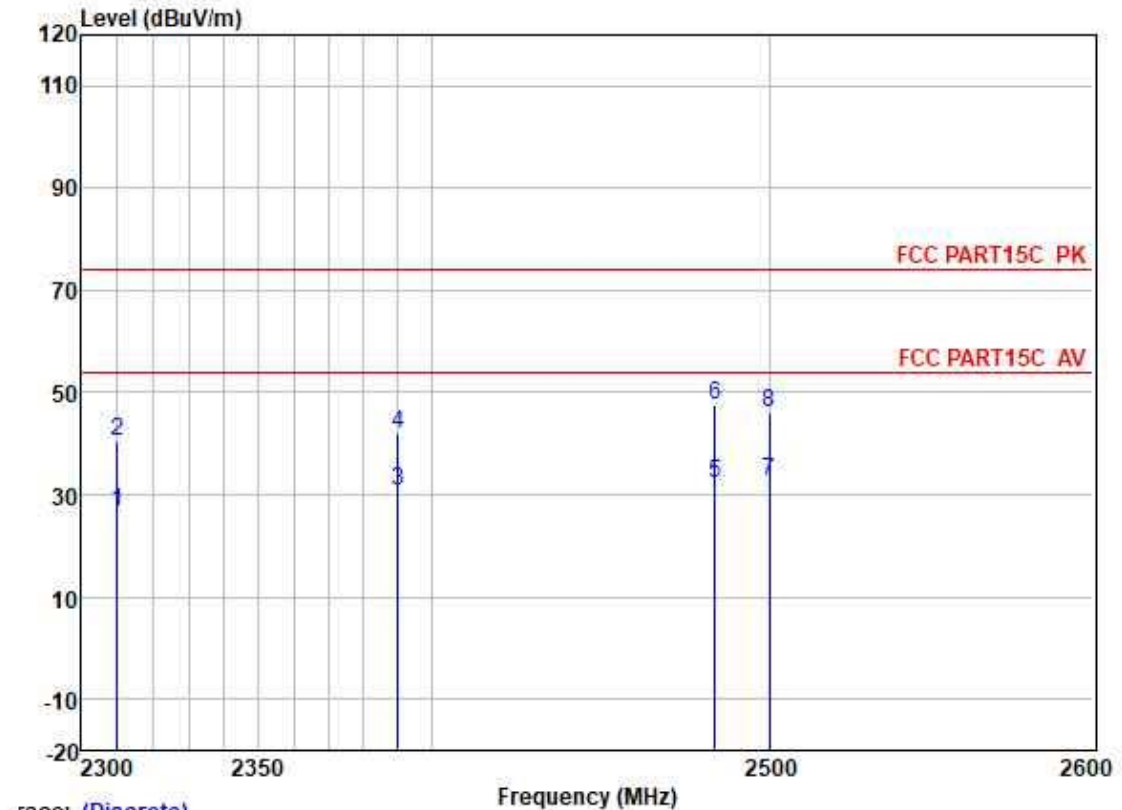
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	29.45	26.25	5.03	37.44	23.29	54.00	-30.71	VERTICAL
2	2310.000	44.90	26.25	5.03	37.44	38.74	74.00	-35.26	VERTICAL
3	2390.000	31.36	26.43	4.88	37.42	25.25	54.00	-28.75	VERTICAL
4	2390.000	46.07	26.43	4.88	37.42	39.96	74.00	-34.04	VERTICAL
5	2483.500	36.87	26.58	5.23	37.40	31.28	54.00	-22.72	VERTICAL
6	2483.500	49.99	26.58	5.23	37.40	44.40	74.00	-29.60	VERTICAL
7	2500.000	35.68	26.60	4.95	37.39	29.84	54.00	-24.16	VERTICAL
8	2500.000	48.98	26.60	4.95	37.39	43.14	74.00	-30.86	VERTICAL



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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Trace: (Discrete)

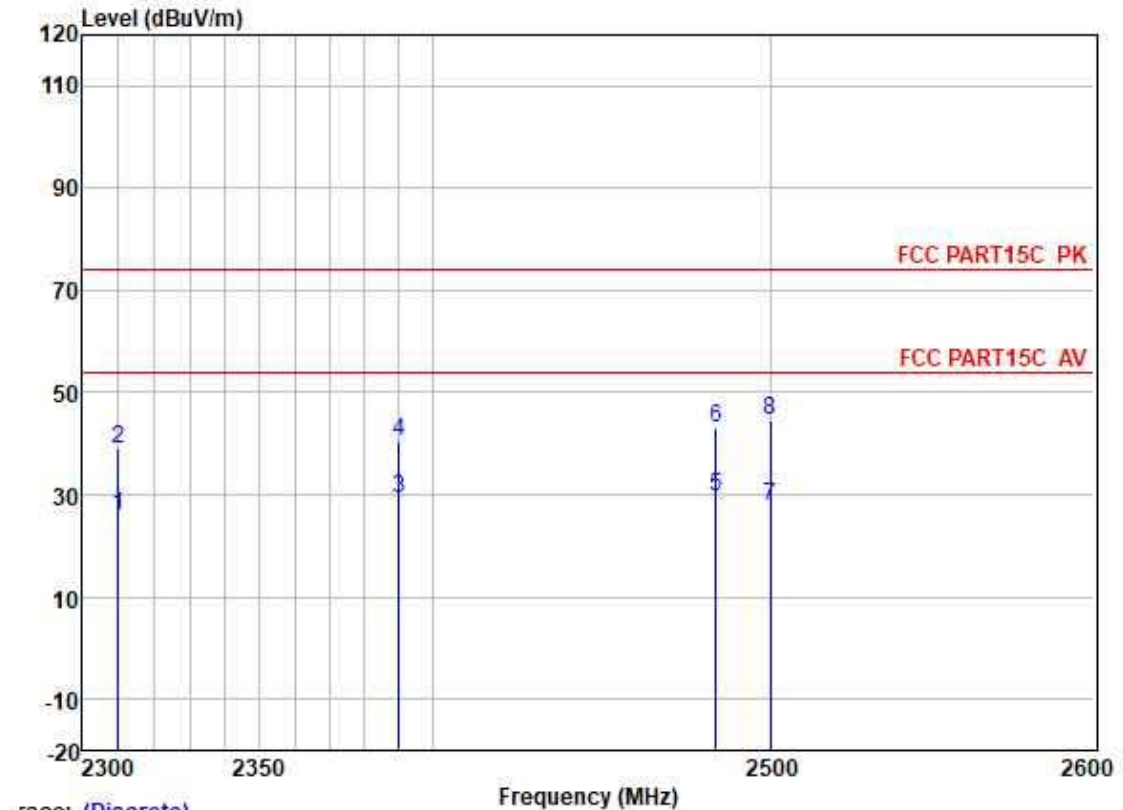
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2310.000	32.67	26.25	5.03	37.44	26.51	54.00	-27.49	HORIZONTAL	Average
2 2310.000	46.69	26.25	5.03	37.44	40.53	74.00	-33.47	HORIZONTAL	Peak
3 2390.000	36.94	26.43	4.88	37.42	30.83	54.00	-23.17	HORIZONTAL	Average
4 2390.000	48.23	26.43	4.88	37.42	42.12	74.00	-31.88	HORIZONTAL	Peak
5 2483.500	37.91	26.58	5.23	37.40	32.32	54.00	-21.68	HORIZONTAL	Average
6 2483.500	53.19	26.58	5.23	37.40	47.60	74.00	-26.40	HORIZONTAL	Peak
7 2500.000	38.30	26.60	4.95	37.39	32.46	54.00	-21.54	HORIZONTAL	Average
8 2500.000	51.80	26.60	4.95	37.39	45.96	74.00	-28.04	HORIZONTAL	Peak



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



Trace: (Discrete)

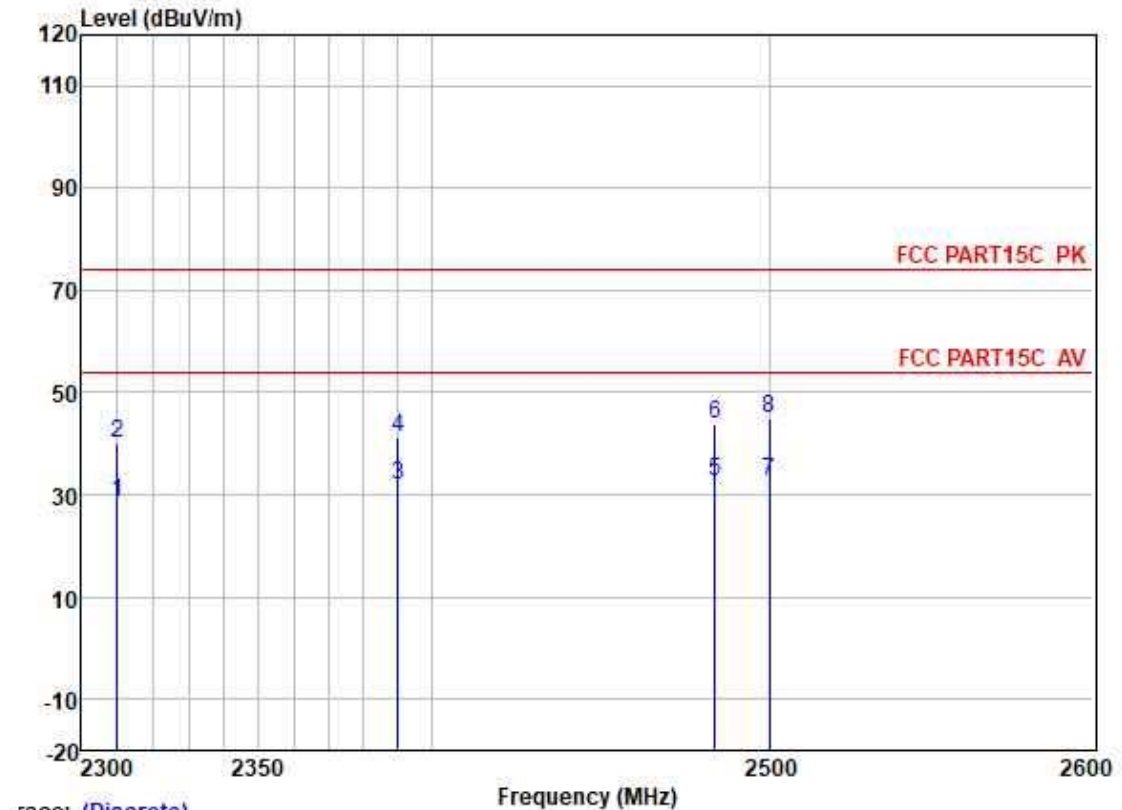
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2310.000	32.14	26.25	5.03	37.44	25.98	54.00	-28.02	VERTICAL
2	2310.000	44.98	26.25	5.03	37.44	38.82	74.00	-35.18	VERTICAL
3	2390.000	35.24	26.43	4.88	37.42	29.13	54.00	-24.87	VERTICAL
4	2390.000	46.45	26.43	4.88	37.42	40.34	74.00	-33.66	VERTICAL
5	2483.500	35.27	26.58	5.23	37.40	29.68	54.00	-24.32	VERTICAL
6	2483.500	48.86	26.58	5.23	37.40	43.27	74.00	-30.73	VERTICAL
7	2500.000	33.63	26.60	4.95	37.39	27.79	54.00	-26.21	VERTICAL
8	2500.000	50.35	26.60	4.95	37.39	44.51	74.00	-29.49	VERTICAL



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



Trace: (Discrete)

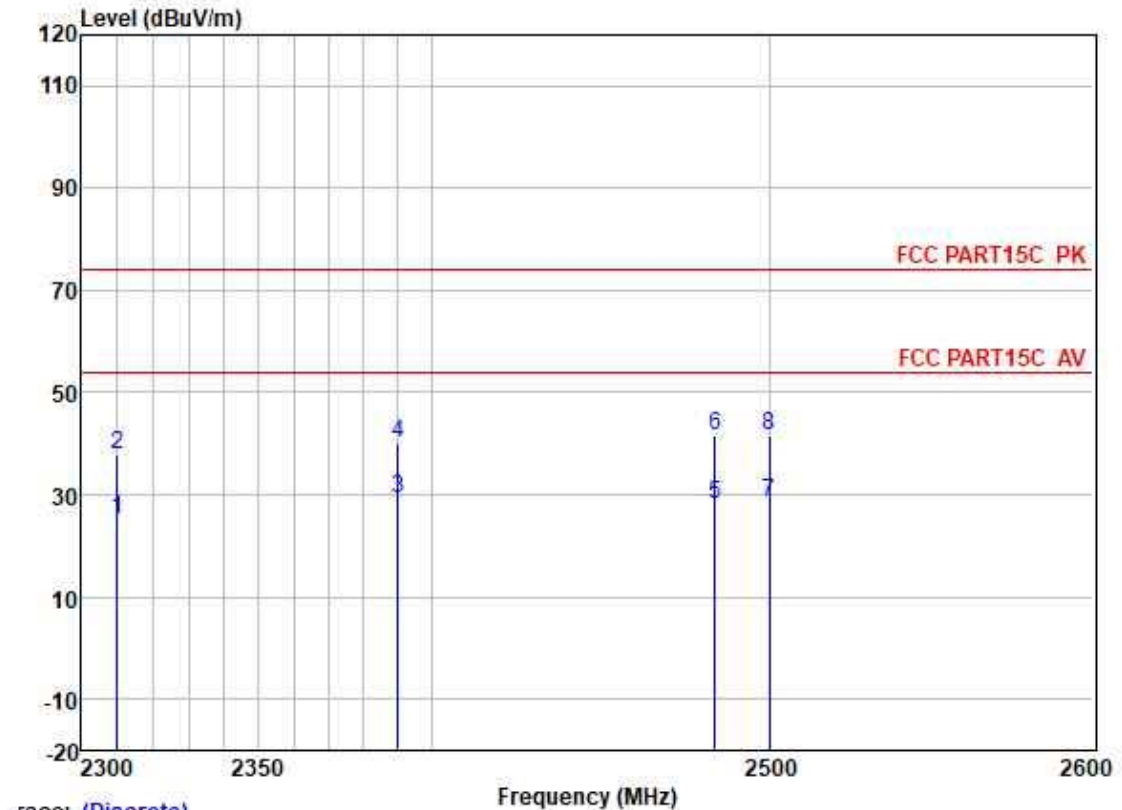
	Read	Antenna	Cable	Preamp	Level	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2310.000	34.79	26.25	5.03	37.44	28.63	54.00	-25.37	HORIZONTAL	Average
2 2310.000	46.34	26.25	5.03	37.44	40.18	74.00	-33.82	HORIZONTAL	Peak
3 2390.000	38.06	26.43	4.88	37.42	31.95	54.00	-22.05	HORIZONTAL	Average
4 2390.000	47.46	26.43	4.88	37.42	41.35	74.00	-32.65	HORIZONTAL	Peak
5 2483.500	38.34	26.58	5.23	37.40	32.75	54.00	-21.25	HORIZONTAL	Average
6 2483.500	49.30	26.58	5.23	37.40	43.71	74.00	-30.29	HORIZONTAL	Peak
7 2500.000	38.48	26.60	4.95	37.39	32.64	54.00	-21.36	HORIZONTAL	Average
8 2500.000	50.75	26.60	4.95	37.39	44.91	74.00	-29.09	HORIZONTAL	Peak



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Trace: (Discrete)

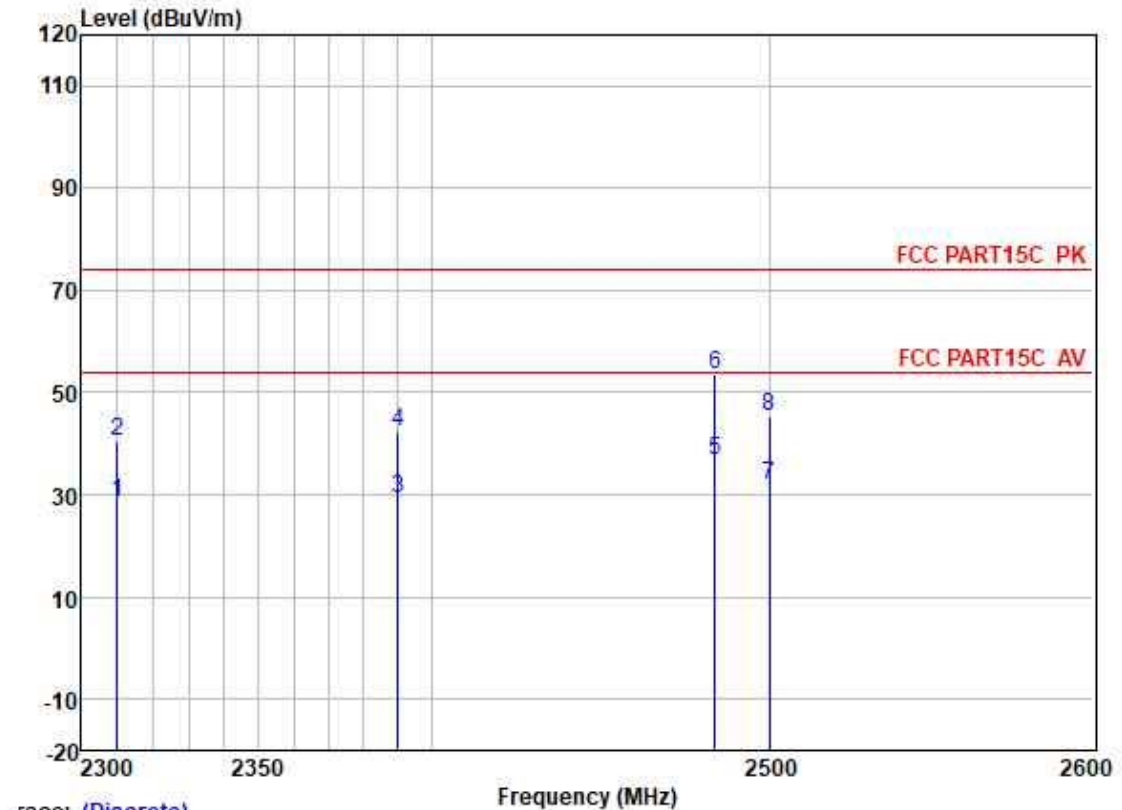
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	31.36	26.25	5.03	37.44	25.20	54.00	-28.80	VERTICAL	Average
2	2310.000	44.09	26.25	5.03	37.44	37.93	74.00	-36.07	VERTICAL	Peak
3	2390.000	35.49	26.43	4.88	37.42	29.38	54.00	-24.62	VERTICAL	Average
4	2390.000	46.29	26.43	4.88	37.42	40.18	74.00	-33.82	VERTICAL	Peak
5	2483.500	33.85	26.58	5.23	37.40	28.26	54.00	-25.74	VERTICAL	Average
6	2483.500	47.33	26.58	5.23	37.40	41.74	74.00	-32.26	VERTICAL	Peak
7	2500.000	34.34	26.60	4.95	37.39	28.50	54.00	-25.50	VERTICAL	Average
8	2500.000	47.63	26.60	4.95	37.39	41.79	74.00	-32.21	VERTICAL	Peak



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Trace: (Discrete)

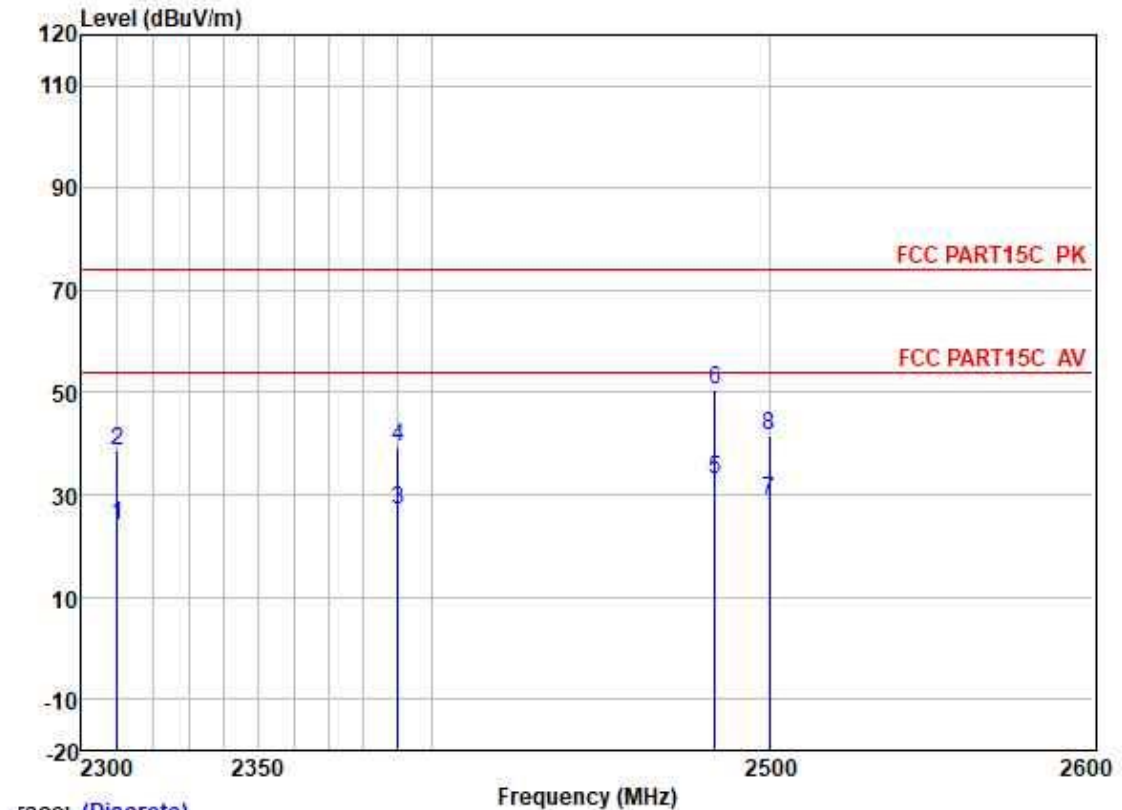
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	34.58	26.25	5.03	37.44	28.42	54.00	-25.58	HORIZONTAL	Average
2	2310.000	46.81	26.25	5.03	37.44	40.65	74.00	-33.35	HORIZONTAL	Peak
3	2390.000	35.34	26.43	4.88	37.42	29.23	54.00	-24.77	HORIZONTAL	Average
4	2390.000	48.31	26.43	4.88	37.42	42.20	74.00	-31.80	HORIZONTAL	Peak
5	2483.500	42.25	26.58	5.23	37.40	36.66	54.00	-17.34	HORIZONTAL	Average
6	2483.500	59.19	26.58	5.23	37.40	53.60	74.00	-20.40	HORIZONTAL	Peak
7	2500.000	37.90	26.60	4.95	37.39	32.06	54.00	-21.94	HORIZONTAL	Average
8	2500.000	51.06	26.60	4.95	37.39	45.22	74.00	-28.78	HORIZONTAL	Peak



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



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Level	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	30.33	26.25	5.03	37.44	24.17	54.00	-29.83	VERTICAL	Average
2 2310.000	44.87	26.25	5.03	37.44	38.71	74.00	-35.29	VERTICAL	Peak
3 2390.000	33.00	26.43	4.88	37.42	26.89	54.00	-27.11	VERTICAL	Average
4 2390.000	45.31	26.43	4.88	37.42	39.20	74.00	-34.80	VERTICAL	Peak
5 2483.500	38.43	26.58	5.23	37.40	32.84	54.00	-21.16	VERTICAL	Average
6 2483.500	56.22	26.58	5.23	37.40	50.63	74.00	-23.37	VERTICAL	Peak
7 2500.000	34.93	26.60	4.95	37.39	29.09	54.00	-24.91	VERTICAL	Average
8 2500.000	47.31	26.60	4.95	37.39	41.47	74.00	-32.53	VERTICAL	Peak



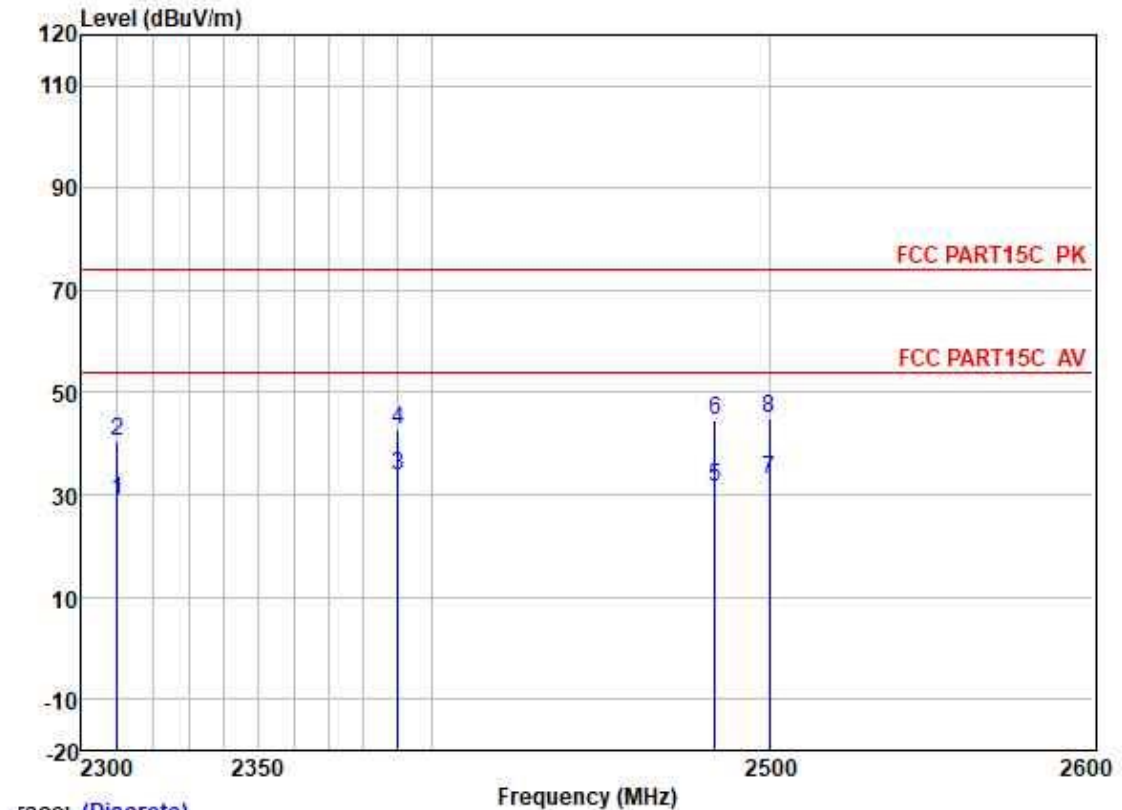
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Trace: (Discrete)

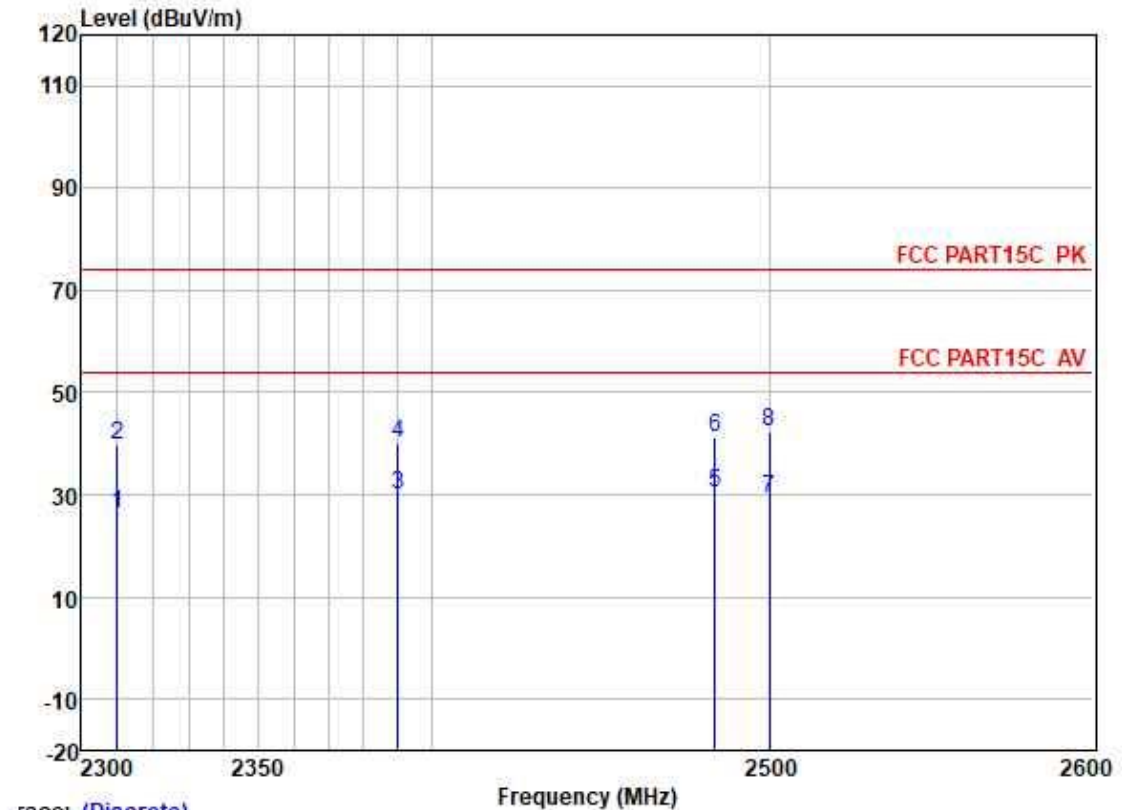
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2310.000	35.15	26.25	5.03	37.44	28.99	54.00	-25.01	HORIZONTAL	Average
2 2310.000	46.48	26.25	5.03	37.44	40.32	74.00	-33.68	HORIZONTAL	Peak
3 2390.000	40.00	26.43	4.88	37.42	33.89	54.00	-20.11	HORIZONTAL	Average
4 2390.000	48.72	26.43	4.88	37.42	42.61	74.00	-31.39	HORIZONTAL	Peak
5 2483.500	37.12	26.58	5.23	37.40	31.53	54.00	-22.47	HORIZONTAL	Average
6 2483.500	50.22	26.58	5.23	37.40	44.63	74.00	-29.37	HORIZONTAL	Peak
7 2500.000	38.70	26.60	4.95	37.39	32.86	54.00	-21.14	HORIZONTAL	Average
8 2500.000	50.72	26.60	4.95	37.39	44.88	74.00	-29.12	HORIZONTAL	Peak



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



Trace: (Discrete)

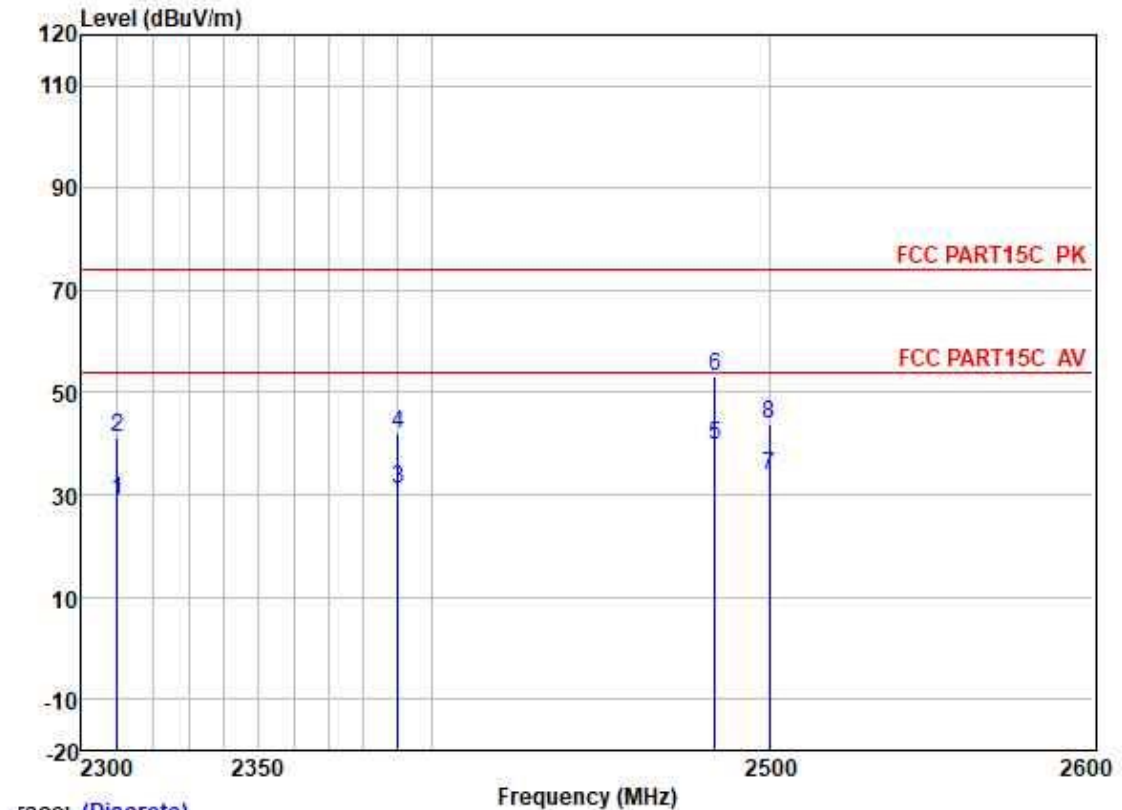
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	32.29	26.25	5.03	37.44	26.13	54.00	-27.87	VERTICAL	Average
2	2310.000	45.76	26.25	5.03	37.44	39.60	74.00	-34.40	VERTICAL	Peak
3	2390.000	35.98	26.43	4.88	37.42	29.87	54.00	-24.13	VERTICAL	Average
4	2390.000	46.22	26.43	4.88	37.42	40.11	74.00	-33.89	VERTICAL	Peak
5	2483.500	36.15	26.58	5.23	37.40	30.56	54.00	-23.44	VERTICAL	Average
6	2483.500	46.73	26.58	5.23	37.40	41.14	74.00	-32.86	VERTICAL	Peak
7	2500.000	35.10	26.60	4.95	37.39	29.26	54.00	-24.74	VERTICAL	Average
8	2500.000	48.29	26.60	4.95	37.39	42.45	74.00	-31.55	VERTICAL	Peak



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Mode:c; Polarization:Horizontal; Modulation:n; 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	2310.000	34.90	26.25	5.03	37.44	28.74	54.00	-25.26	HORIZONTAL Average
2	2310.000	47.44	26.25	5.03	37.44	41.28	74.00	-32.72	HORIZONTAL Peak
3	2390.000	37.34	26.43	4.88	37.42	31.23	54.00	-22.77	HORIZONTAL Average
4	2390.000	48.25	26.43	4.88	37.42	42.14	74.00	-31.86	HORIZONTAL Peak
5	2483.500	45.28	26.58	5.23	37.40	39.69	54.00	-14.31	HORIZONTAL Average
6	2483.500	58.68	26.58	5.23	37.40	53.09	74.00	-20.91	HORIZONTAL Peak
7	2500.000	39.44	26.60	4.95	37.39	33.60	54.00	-20.40	HORIZONTAL Average
8	2500.000	49.53	26.60	4.95	37.39	43.69	74.00	-30.31	HORIZONTAL Peak



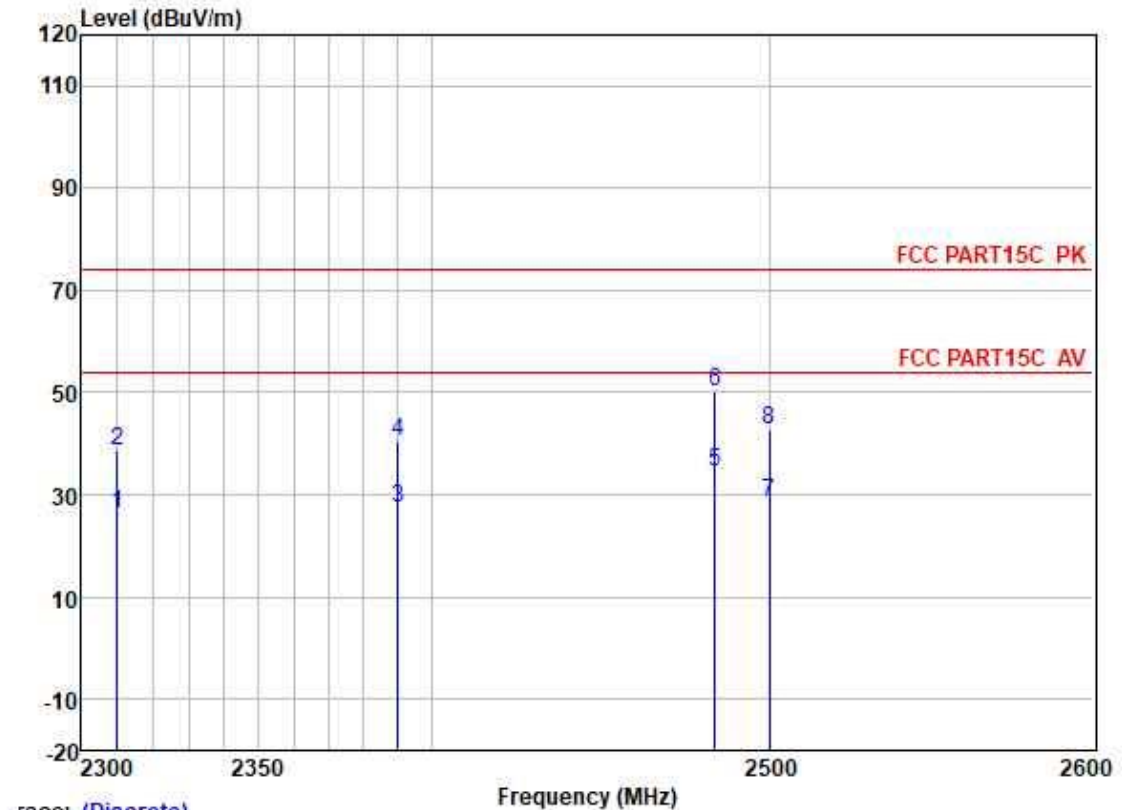
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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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



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	32.62	26.25	5.03	37.44	26.46	54.00	-27.54	VERTICAL Average
2	2310.000	44.83	26.25	5.03	37.44	38.67	74.00	-35.33	VERTICAL Peak
3	2390.000	33.71	26.43	4.88	37.42	27.60	54.00	-26.40	VERTICAL Average
4	2390.000	46.47	26.43	4.88	37.42	40.36	74.00	-33.64	VERTICAL Peak
5	2483.500	39.98	26.58	5.23	37.40	34.39	54.00	-19.61	VERTICAL Average
6	2483.500	55.68	26.58	5.23	37.40	50.09	74.00	-23.91	VERTICAL Peak
7	2500.000	34.32	26.60	4.95	37.39	28.48	54.00	-25.52	VERTICAL Average
8	2500.000	48.64	26.60	4.95	37.39	42.80	74.00	-31.20	VERTICAL Peak



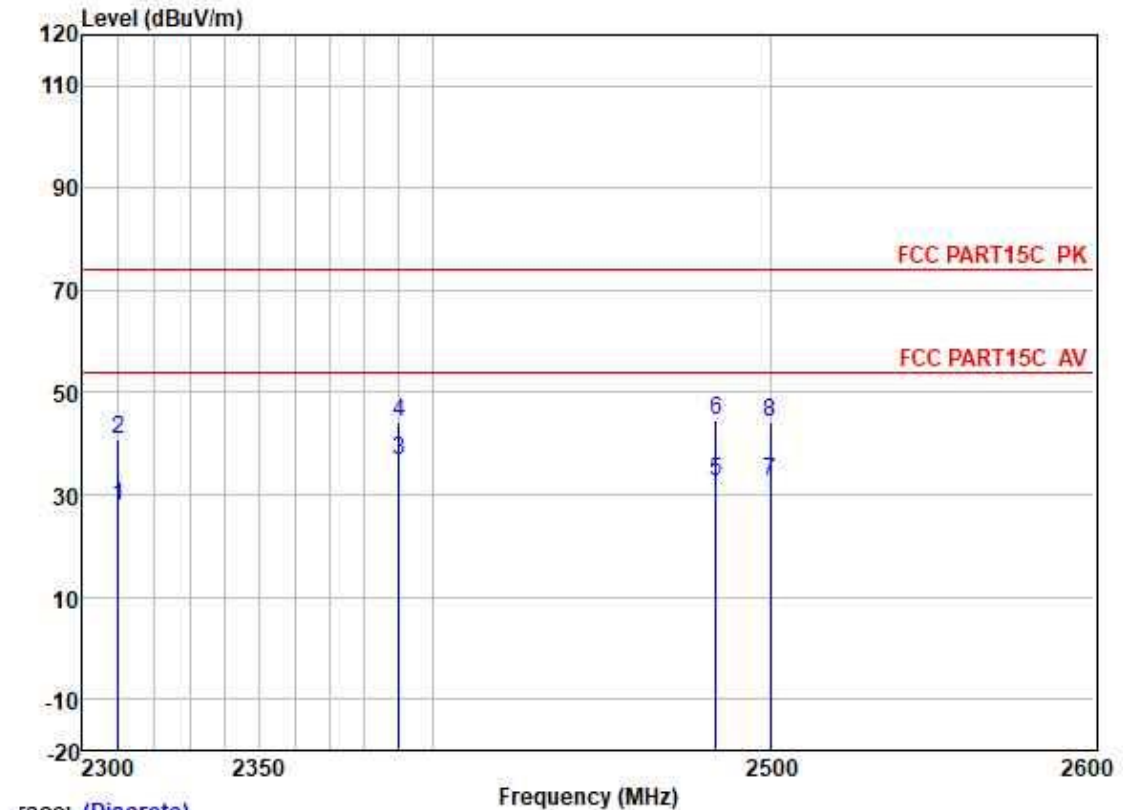
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Trace: (Discrete)

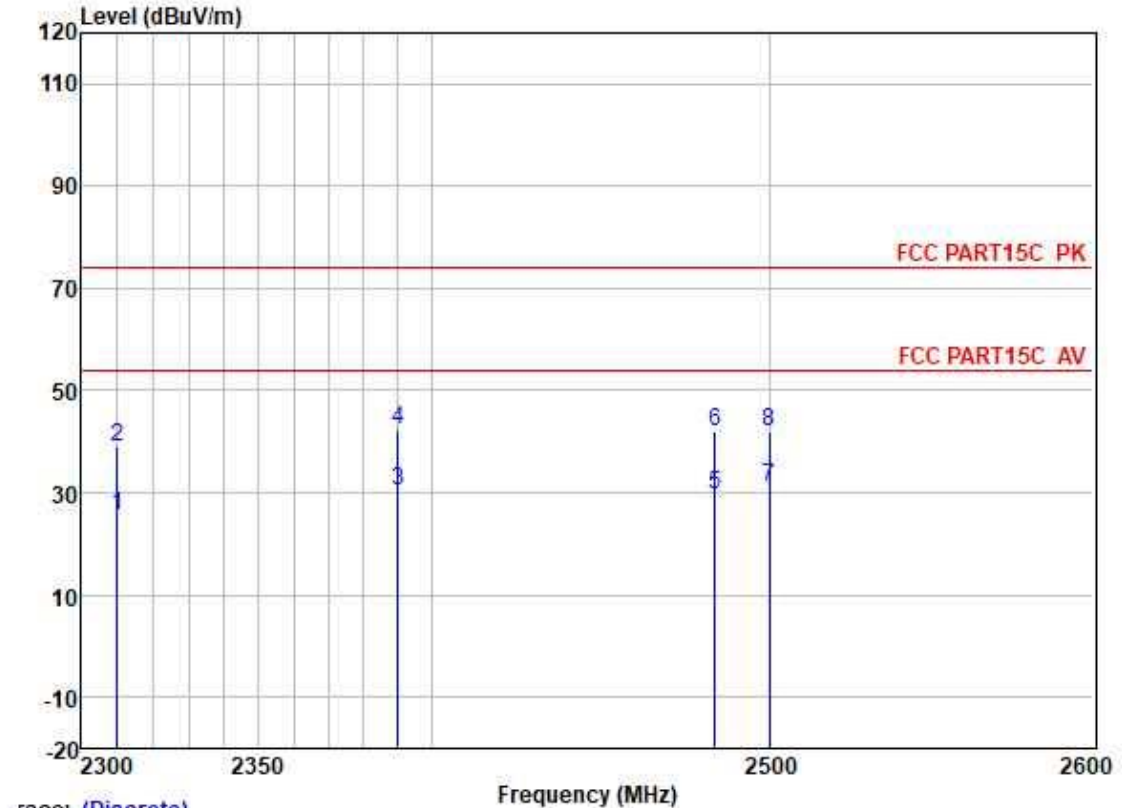
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	33.88	26.25	5.03	37.44	27.72	54.00	-26.28	HORIZONTAL Average
2	2310.000	47.12	26.25	5.03	37.44	40.96	74.00	-33.04	HORIZONTAL Peak
3	2390.000	42.80	26.43	4.88	37.42	36.69	54.00	-17.31	HORIZONTAL Average
4	2390.000	50.35	26.43	4.88	37.42	44.24	74.00	-29.76	HORIZONTAL Peak
5	2483.500	38.34	26.58	5.23	37.40	32.75	54.00	-21.25	HORIZONTAL Average
6	2483.500	50.33	26.58	5.23	37.40	44.74	74.00	-29.26	HORIZONTAL Peak
7	2500.000	38.64	26.60	4.95	37.39	32.80	54.00	-21.20	HORIZONTAL Average
8	2500.000	50.05	26.60	4.95	37.39	44.21	74.00	-29.79	HORIZONTAL Peak



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



Trace: (Discrete)

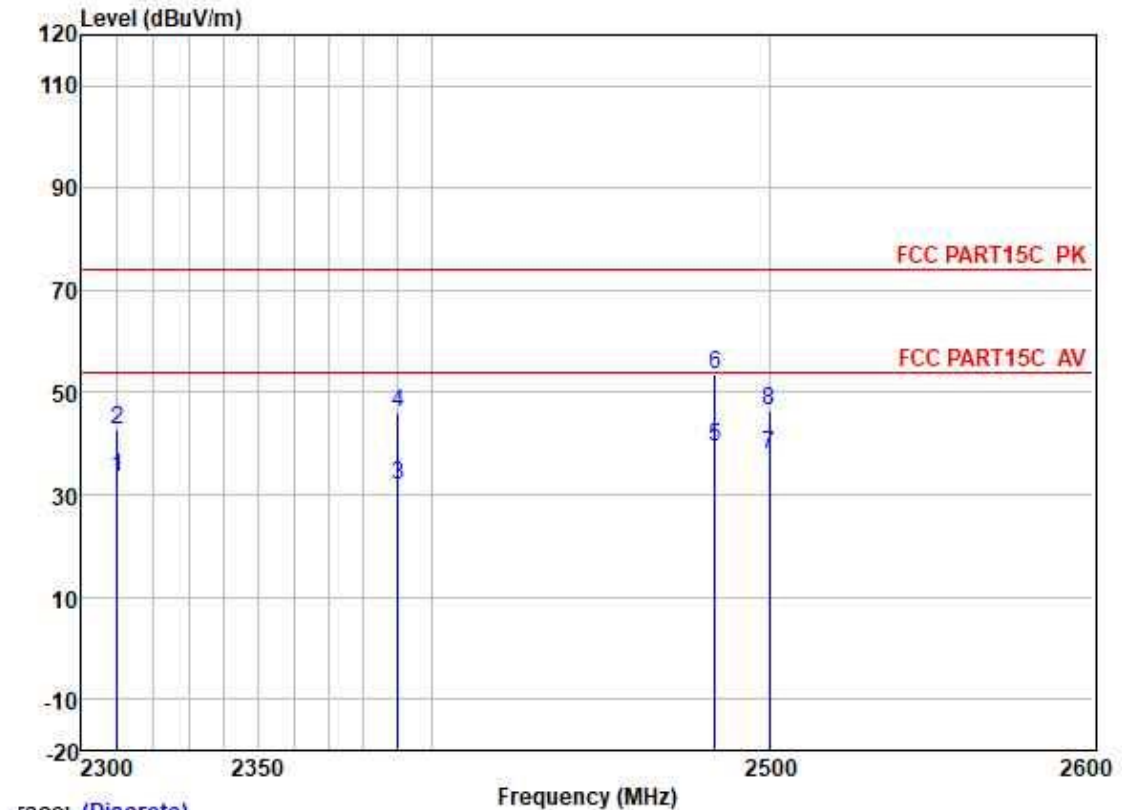
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2310.000	31.82	26.25	5.03	37.44	25.66	54.00	-28.34	VERTICAL	Average
2	2310.000	45.29	26.25	5.03	37.44	39.13	74.00	-34.87	VERTICAL	Peak
3	2390.000	36.58	26.43	4.88	37.42	30.47	54.00	-23.53	VERTICAL	Average
4	2390.000	48.41	26.43	4.88	37.42	42.30	74.00	-31.70	VERTICAL	Peak
5	2483.500	35.32	26.58	5.23	37.40	29.73	54.00	-24.27	VERTICAL	Average
6	2483.500	47.65	26.58	5.23	37.40	42.06	74.00	-31.94	VERTICAL	Peak
7	2500.000	36.88	26.60	4.95	37.39	31.04	54.00	-22.96	VERTICAL	Average
8	2500.000	47.76	26.60	4.95	37.39	41.92	74.00	-32.08	VERTICAL	Peak



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



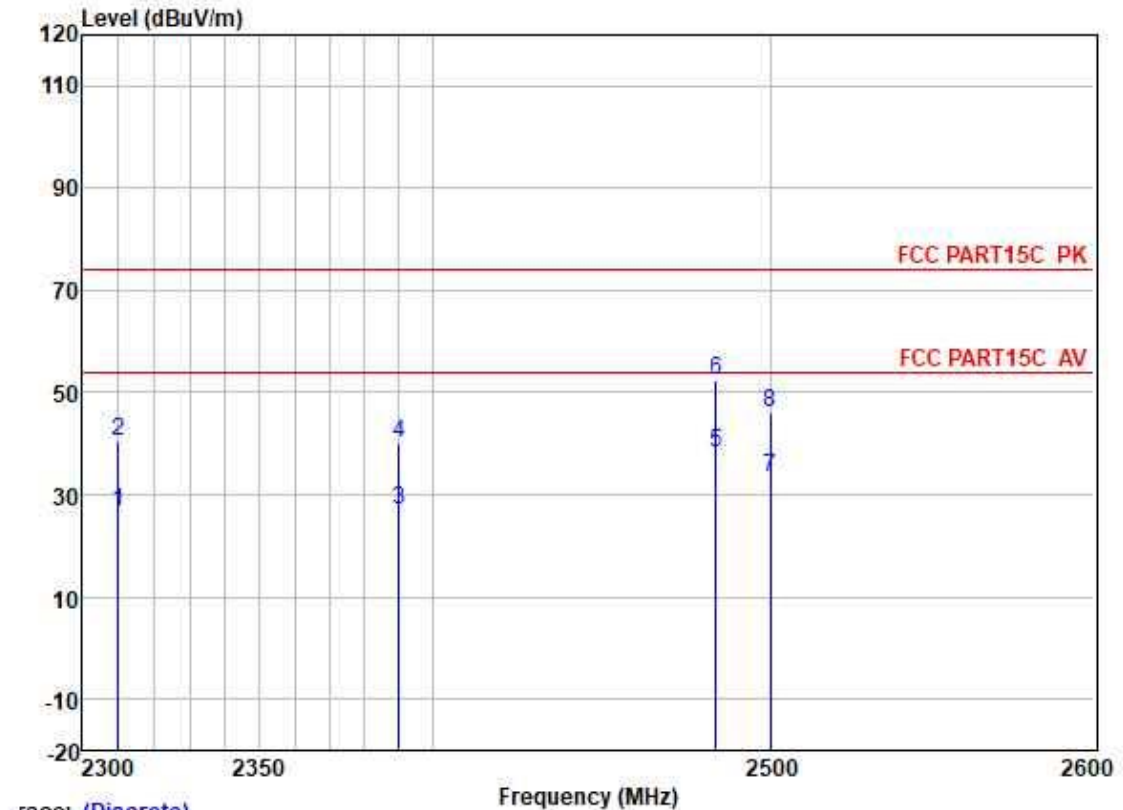
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	39.68	26.25	5.03	37.44	33.52	54.00	-20.48	HORIZONTAL Average
2	2310.000	48.96	26.25	5.03	37.44	42.80	74.00	-31.20	HORIZONTAL Peak
3	2390.000	38.19	26.43	4.88	37.42	32.08	54.00	-21.92	HORIZONTAL Average
4	2390.000	52.37	26.43	4.88	37.42	46.26	74.00	-27.74	HORIZONTAL Peak
5	2483.500	44.93	26.58	5.23	37.40	39.34	54.00	-14.66	HORIZONTAL Average
6	2483.500	59.10	26.58	5.23	37.40	53.51	74.00	-20.49	HORIZONTAL Peak
7	2500.000	43.62	26.60	4.95	37.39	37.78	54.00	-16.22	HORIZONTAL Average
8	2500.000	52.44	26.60	4.95	37.39	46.60	74.00	-27.40	HORIZONTAL Peak



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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; 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	2310.000	32.99	26.25	5.03	37.44	26.83	54.00	-27.17	VERTICAL Average
2	2310.000	46.80	26.25	5.03	37.44	40.64	74.00	-33.36	VERTICAL Peak
3	2390.000	33.10	26.43	4.88	37.42	26.99	54.00	-27.01	VERTICAL Average
4	2390.000	46.33	26.43	4.88	37.42	40.22	74.00	-33.78	VERTICAL Peak
5	2483.500	43.99	26.58	5.23	37.40	38.40	54.00	-15.60	VERTICAL Average
6	2483.500	58.05	26.58	5.23	37.40	52.46	74.00	-21.54	VERTICAL Peak
7	2500.000	39.19	26.60	4.95	37.39	33.35	54.00	-20.65	VERTICAL Average
8	2500.000	51.94	26.60	4.95	37.39	46.10	74.00	-27.90	VERTICAL Peak



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7.8 Radiated Spurious Emissions

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

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.



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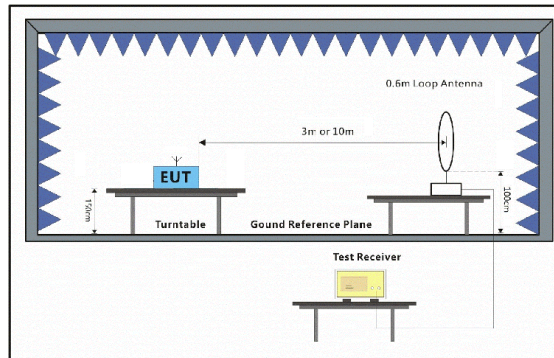
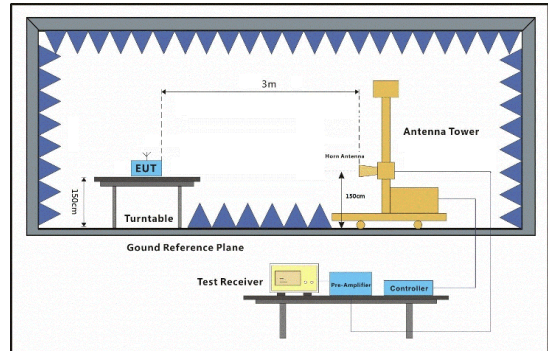
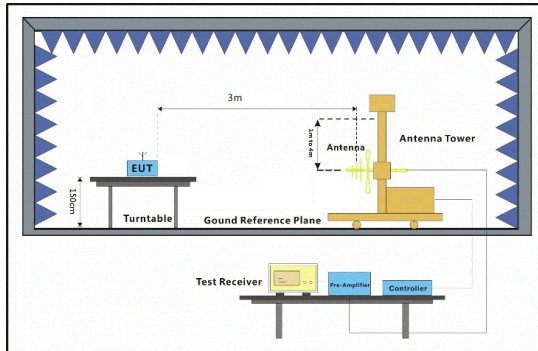
7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 26.2 °C Humidity: 58.3 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
 c: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:

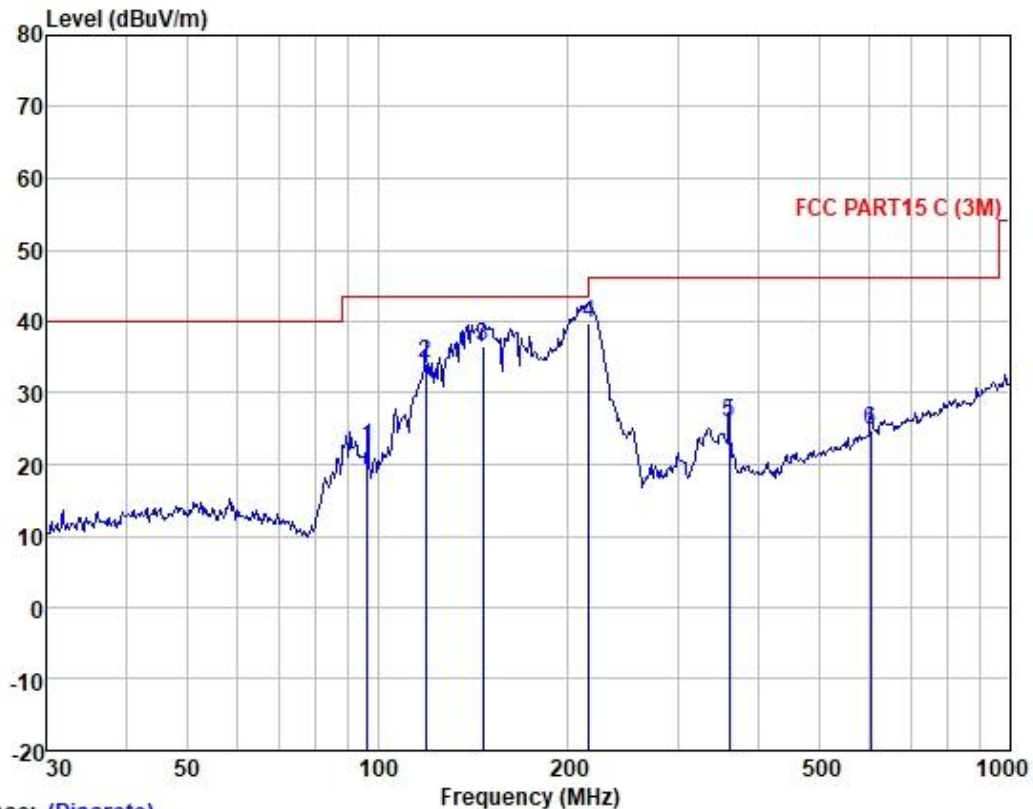
- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel of BLE and 11b. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as 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



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 No.198 Kazhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

Site : SGS

Condition: FCC PART15 C (3M) 3m HORIZONTAL

Job :

Model :

Power :

Test Mode:

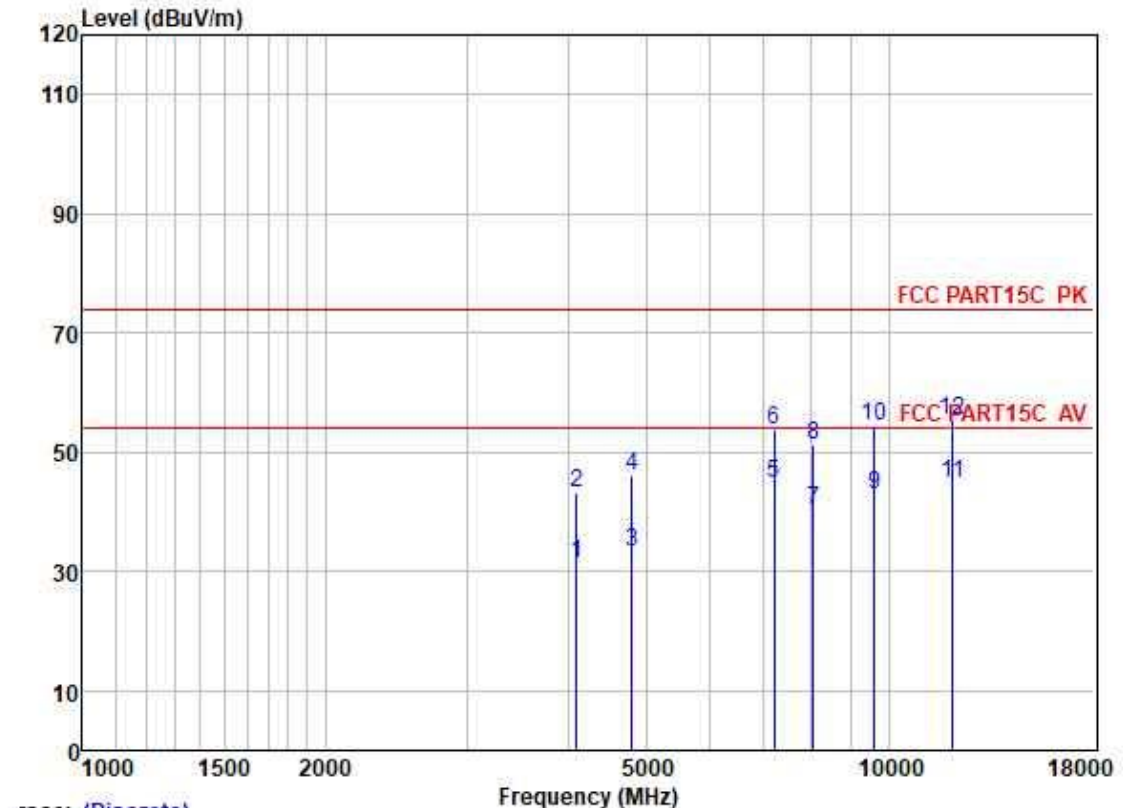
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	96.436	39.30	8.63	1.61	27.10	22.44	43.50	-21.06	HORIZONTAL QP
2	119.018	48.70	10.80	1.76	27.06	34.20	43.50	-9.30	HORIZONTAL QP
3	146.888	47.76	13.70	2.03	26.90	36.59	43.50	-6.91	HORIZONTAL QP
4	216.024	54.24	9.80	2.58	26.83	39.79	46.00	-6.21	HORIZONTAL QP
5	360.448	35.40	14.90	3.28	27.78	25.80	46.00	-20.20	HORIZONTAL QP
6	603.539	27.81	20.10	4.84	28.07	24.68	46.00	-21.32	HORIZONTAL QP



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

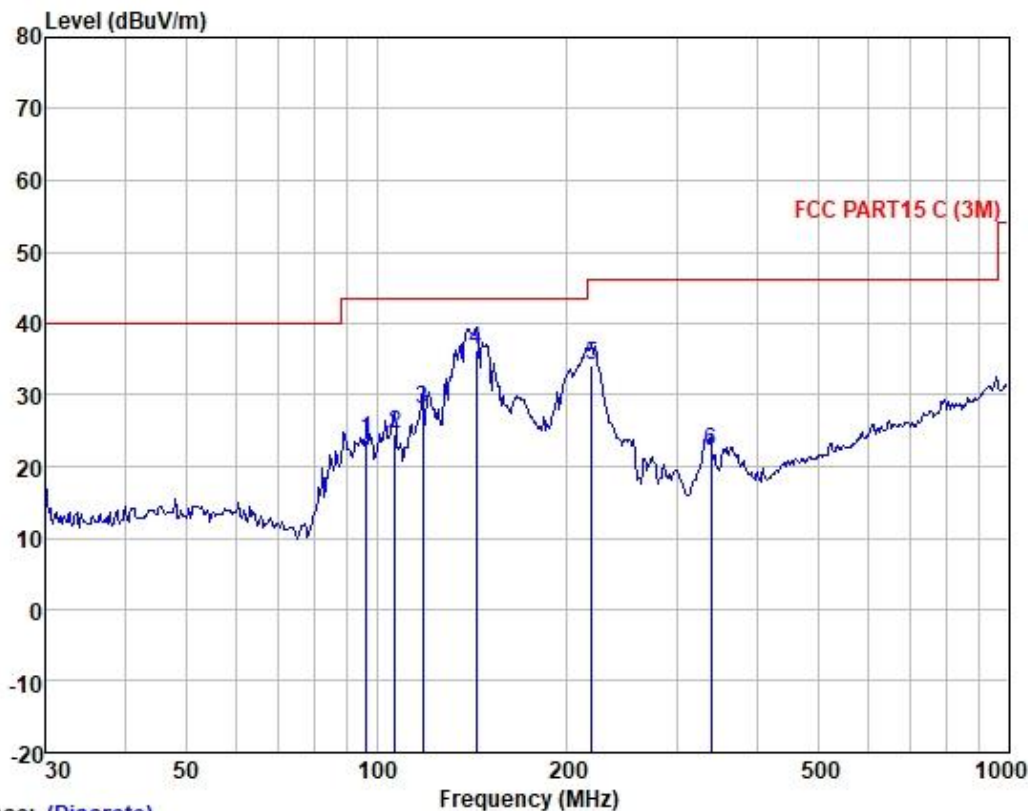
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4098.010	33.28	29.94	4.60	36.41	31.41	54.00	-22.59	HORIZONTAL	Average
2	4098.010	45.23	29.94	4.60	36.41	43.36	74.00	-30.64	HORIZONTAL	Peak
3	4804.993	32.92	31.42	5.40	36.48	33.26	54.00	-20.74	HORIZONTAL	Average
4	4804.993	45.58	31.42	5.40	36.48	45.92	74.00	-28.08	HORIZONTAL	Peak
5	7206.030	40.04	35.54	5.98	36.75	44.81	54.00	-9.19	HORIZONTAL	Average
6	7206.030	49.12	35.54	5.98	36.75	53.89	74.00	-20.11	HORIZONTAL	Peak
7	8059.475	33.94	36.92	6.21	36.79	40.28	54.00	-13.72	HORIZONTAL	Average
8	8059.475	44.78	36.92	6.21	36.79	51.12	74.00	-22.88	HORIZONTAL	Peak
9	9608.430	33.80	38.37	7.07	36.36	42.88	54.00	-11.12	HORIZONTAL	Average
10	9608.430	45.24	38.37	7.07	36.36	54.32	74.00	-19.68	HORIZONTAL	Peak
11	12010.690	34.11	38.90	8.19	36.40	44.80	54.00	-9.20	HORIZONTAL	Average
12	12010.690	44.75	38.90	8.19	36.40	55.44	74.00	-18.56	HORIZONTAL	Peak



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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

Site : SGS

Condition: FCC PART15 C (3M) 3m VERTICAL

Job :

Model :

Power :

Test Mode:

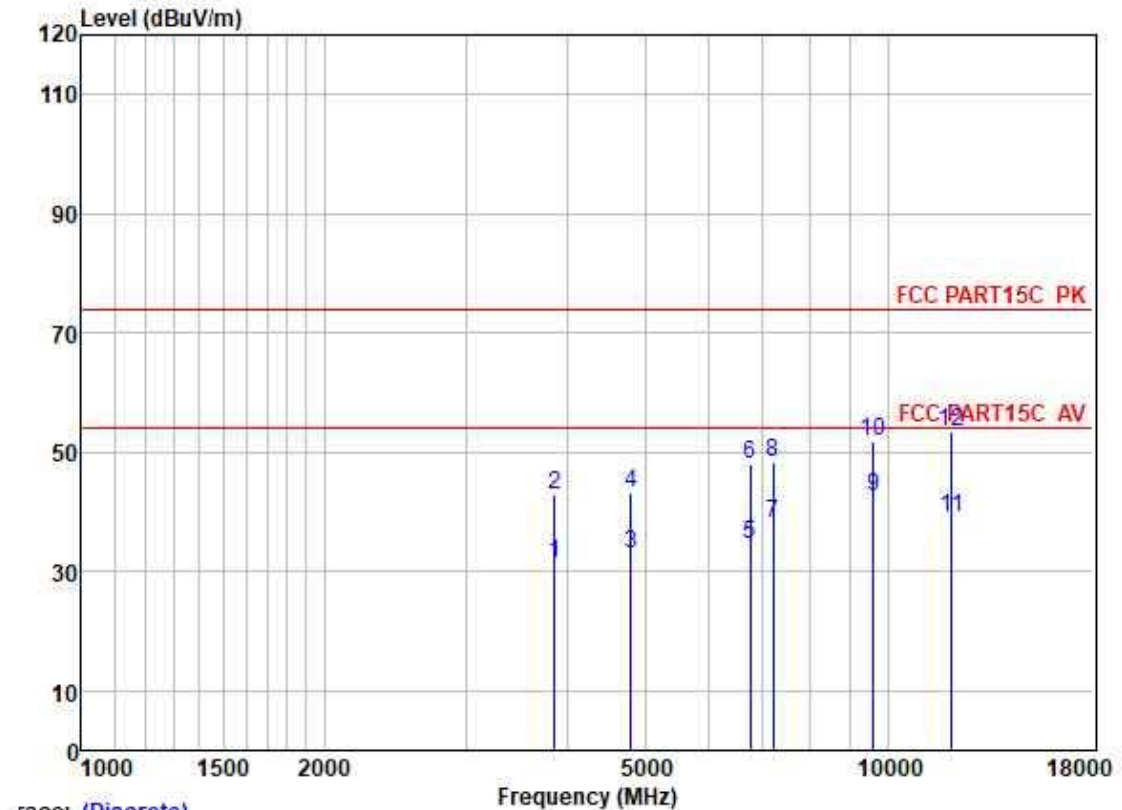
		ReadAntenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	96.436	40.65	8.63	1.61	27.10	23.79	43.50	-19.71	VERTICAL	QP
2	107.134	39.67	10.20	1.69	27.09	24.47	43.50	-19.03	VERTICAL	QP
3	118.186	42.59	10.70	1.76	27.06	27.99	43.50	-15.51	VERTICAL	QP
4	143.830	47.68	13.60	2.01	26.92	36.37	43.50	-7.13	VERTICAL	QP
5	219.075	48.45	9.80	2.60	26.84	34.01	46.00	-11.99	VERTICAL	QP
6	338.400	32.27	14.50	3.08	27.67	22.18	46.00	-23.82	VERTICAL	QP



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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

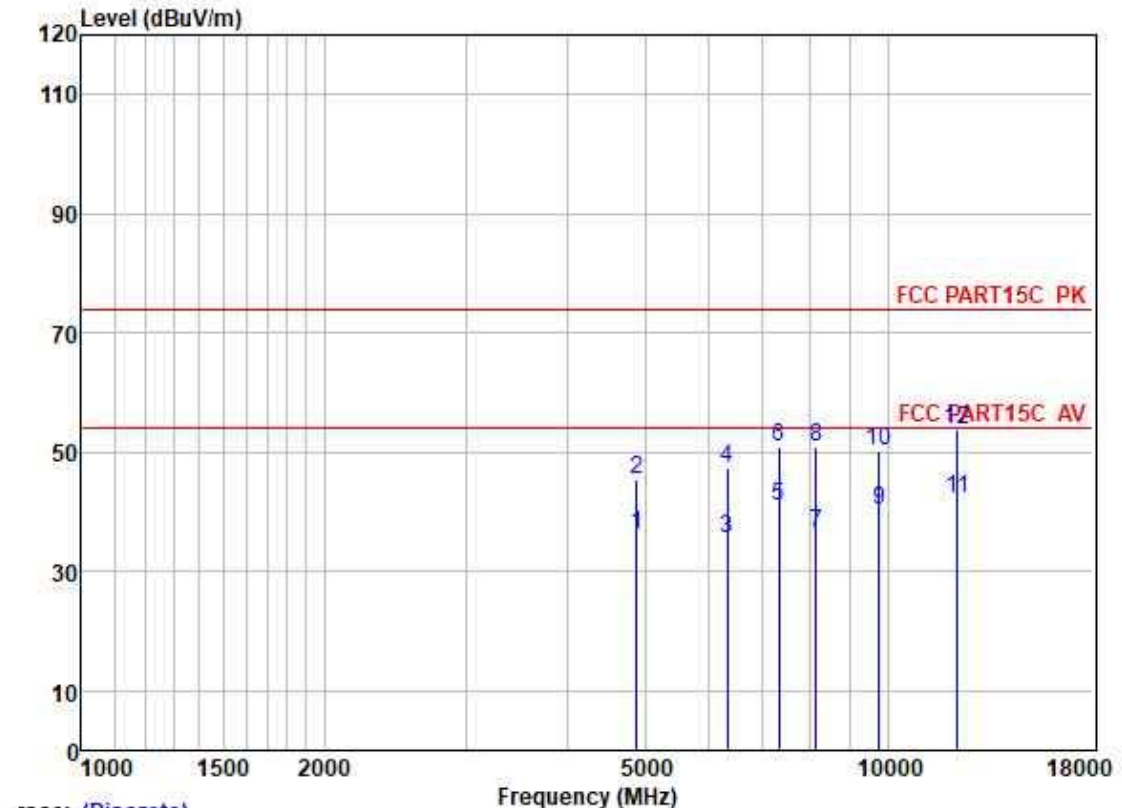
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	3856.668	33.48	29.62	4.60	36.41	31.29	54.00	-22.71 VERTICAL	Average
2	3856.668	45.11	29.62	4.60	36.41	42.92	74.00	-31.08 VERTICAL	Peak
3	4804.490	32.77	31.42	5.40	36.48	33.11	54.00	-20.89 VERTICAL	Average
4	4804.490	42.76	31.42	5.40	36.48	43.10	74.00	-30.90 VERTICAL	Peak
5	6756.708	31.00	34.56	5.82	36.67	34.71	54.00	-19.29 VERTICAL	Average
6	6756.708	44.32	34.56	5.82	36.67	48.03	74.00	-25.97 VERTICAL	Peak
7	7206.200	33.41	35.54	5.98	36.75	38.18	54.00	-15.82 VERTICAL	Average
8	7206.200	43.66	35.54	5.98	36.75	48.43	74.00	-25.57 VERTICAL	Peak
9	9608.250	33.34	38.37	7.07	36.36	42.42	54.00	-11.58 VERTICAL	Average
10	9608.250	42.61	38.37	7.07	36.36	51.69	74.00	-22.31 VERTICAL	Peak
11	12010.080	28.26	38.90	8.19	36.40	38.95	54.00	-15.05 VERTICAL	Average
12	12010.080	42.76	38.90	8.19	36.40	53.45	74.00	-20.55 VERTICAL	Peak



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



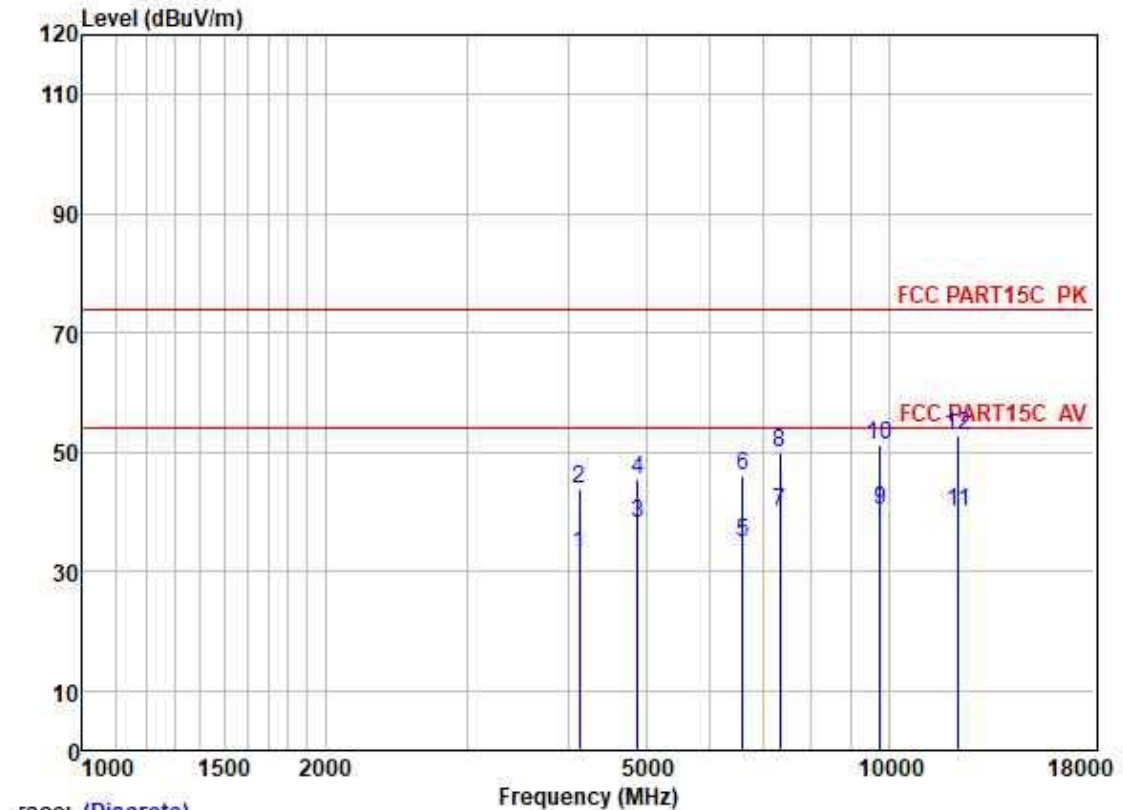
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4884.948	35.60	31.56	5.52	36.50	36.18	54.00	-17.82	HORIZONTAL	Average
2	4884.948	44.77	31.56	5.52	36.50	45.35	74.00	-28.65	HORIZONTAL	Peak
3	6322.136	32.54	33.51	5.95	36.62	35.38	54.00	-18.62	HORIZONTAL	Average
4	6322.136	44.41	33.51	5.95	36.62	47.25	74.00	-26.75	HORIZONTAL	Peak
5	7326.267	35.48	36.00	6.13	36.76	40.85	54.00	-13.15	HORIZONTAL	Average
6	7326.267	45.36	36.00	6.13	36.76	50.73	74.00	-23.27	HORIZONTAL	Peak
7	8153.195	30.13	36.96	6.30	36.78	36.61	54.00	-17.39	HORIZONTAL	Average
8	8153.195	44.53	36.96	6.30	36.78	51.01	74.00	-22.99	HORIZONTAL	Peak
9	9768.479	31.21	38.53	7.01	36.33	40.42	54.00	-13.58	HORIZONTAL	Average
10	9768.479	40.91	38.53	7.01	36.33	50.12	74.00	-23.88	HORIZONTAL	Peak
11	12210.130	31.60	38.74	8.08	36.30	42.12	54.00	-11.88	HORIZONTAL	Average
12	12210.130	43.34	38.74	8.08	36.30	53.86	74.00	-20.14	HORIZONTAL	Peak



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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



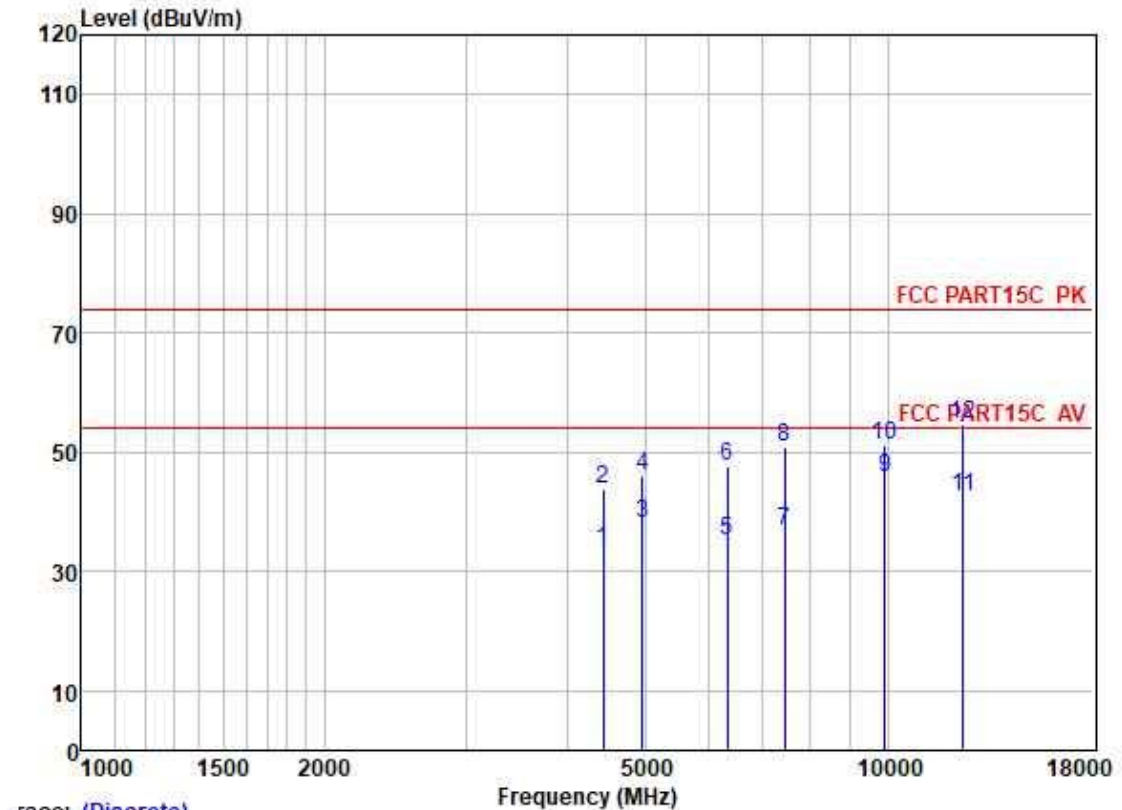
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4133.699	34.73	30.01	4.60	36.41	32.93	54.00	-21.07	VERTICAL
2	4133.699	45.62	30.01	4.60	36.41	43.82	74.00	-30.18	VERTICAL
3	4884.948	37.60	31.56	5.52	36.50	38.18	54.00	-15.82	VERTICAL
4	4884.948	44.77	31.56	5.52	36.50	45.35	74.00	-28.65	VERTICAL
5	6583.209	31.70	34.13	5.84	36.64	35.03	54.00	-18.97	VERTICAL
6	6583.209	42.74	34.13	5.84	36.64	46.07	74.00	-27.93	VERTICAL
7	7326.122	34.60	36.00	6.13	36.76	39.97	54.00	-14.03	VERTICAL
8	7326.122	44.51	36.00	6.13	36.76	49.88	74.00	-24.12	VERTICAL
9	9768.479	31.21	38.53	7.01	36.33	40.42	54.00	-13.58	VERTICAL
10	9768.479	41.91	38.53	7.01	36.33	51.12	74.00	-22.88	VERTICAL
11	12210.130	29.60	38.74	8.08	36.30	40.12	54.00	-13.88	VERTICAL
12	12210.130	42.34	38.74	8.08	36.30	52.86	74.00	-21.14	VERTICAL



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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

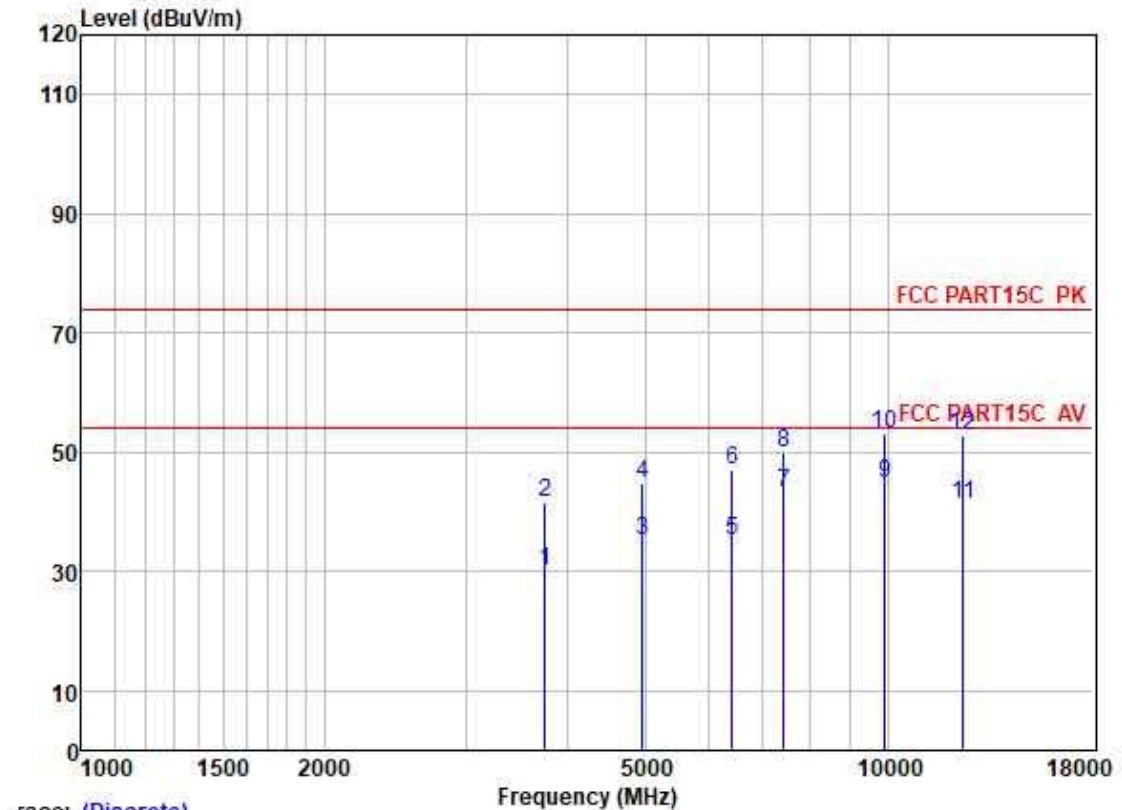
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4443.453	34.46	30.73	4.83	36.43	33.59	54.00	-20.41	HORIZONTAL Average
2	4443.453	44.61	30.73	4.83	36.43	43.74	74.00	-30.26	HORIZONTAL Peak
3	4960.993	37.17	31.65	5.65	36.52	37.95	54.00	-16.05	HORIZONTAL Average
4	4960.993	45.35	31.65	5.65	36.52	46.13	74.00	-27.87	HORIZONTAL Peak
5	6322.136	32.42	33.51	5.95	36.62	35.26	54.00	-18.74	HORIZONTAL Average
6	6322.136	44.70	33.51	5.95	36.62	47.54	74.00	-26.46	HORIZONTAL Peak
7	7440.914	30.99	36.27	6.22	36.77	36.71	54.00	-17.29	HORIZONTAL Average
8	7440.914	45.17	36.27	6.22	36.77	50.89	74.00	-23.11	HORIZONTAL Peak
9	9920.820	36.41	38.65	6.96	36.31	45.71	54.00	-8.29	HORIZONTAL Average
10	9920.820	41.84	38.65	6.96	36.31	51.14	74.00	-22.86	HORIZONTAL Peak
11	12400.130	32.14	38.57	7.97	36.17	42.51	54.00	-11.49	HORIZONTAL Average
12	12400.130	44.45	38.57	7.97	36.17	54.82	74.00	-19.18	HORIZONTAL Peak



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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

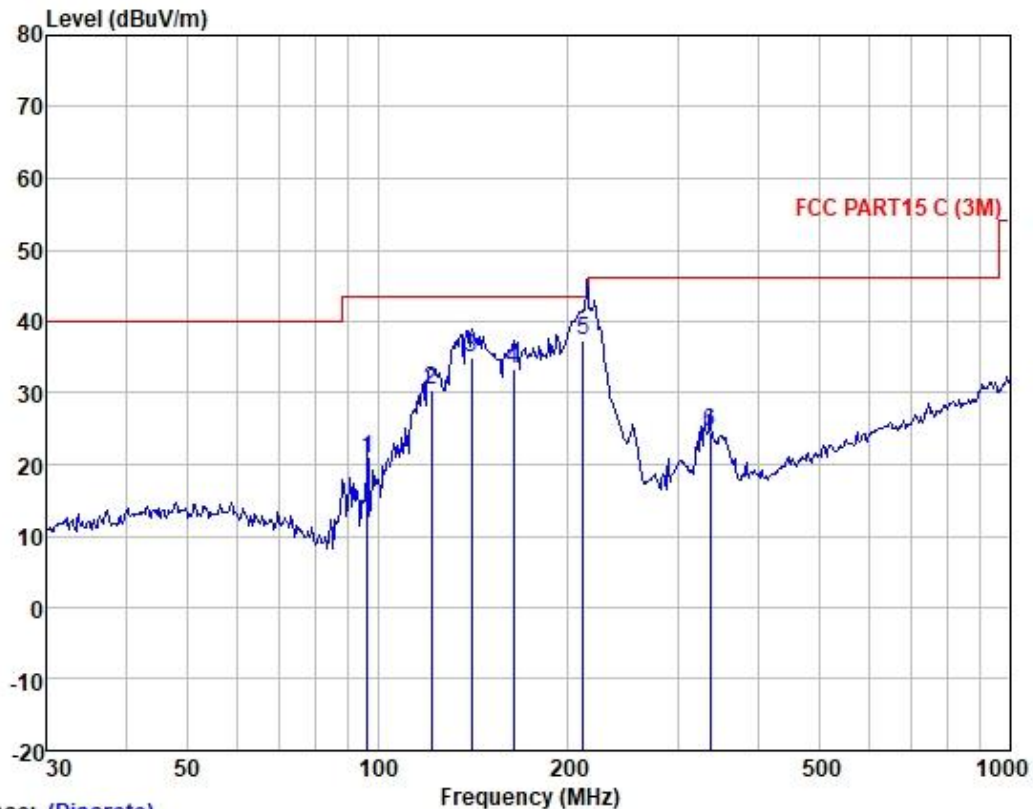
	Freq	ReadAntenna	Cable	Preamplifier	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3757.637	32.46	29.42	4.58	36.42	30.04	54.00	-23.96	VERTICAL Average
2	3757.637	44.12	29.42	4.58	36.42	41.70	74.00	-32.30	VERTICAL Peak
3	4960.214	34.35	31.65	5.65	36.52	35.13	54.00	-18.87	VERTICAL Average
4	4960.214	44.14	31.65	5.65	36.52	44.92	74.00	-29.08	VERTICAL Peak
5	6414.167	31.99	33.79	5.89	36.63	35.04	54.00	-18.96	VERTICAL Average
6	6414.167	43.90	33.79	5.89	36.63	46.95	74.00	-27.05	VERTICAL Peak
7	7440.015	37.44	36.27	6.22	36.77	43.16	54.00	-10.84	VERTICAL Average
8	7440.015	44.12	36.27	6.22	36.77	49.84	74.00	-24.16	VERTICAL Peak
9	9920.149	35.58	38.65	6.96	36.31	44.88	54.00	-9.12	VERTICAL Average
10	9920.149	43.72	38.65	6.96	36.31	53.02	74.00	-20.98	VERTICAL Peak
11	12400.780	31.05	38.57	7.97	36.17	41.42	54.00	-12.58	VERTICAL Average
12	12400.780	42.55	38.57	7.97	36.17	52.92	74.00	-21.08	VERTICAL Peak



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



Trace: (Discrete)

Site : SGS
Condition: FCC PART15 C (3M) 3m HORIZONTAL
Job :
Model :
Power :
Test Mode:

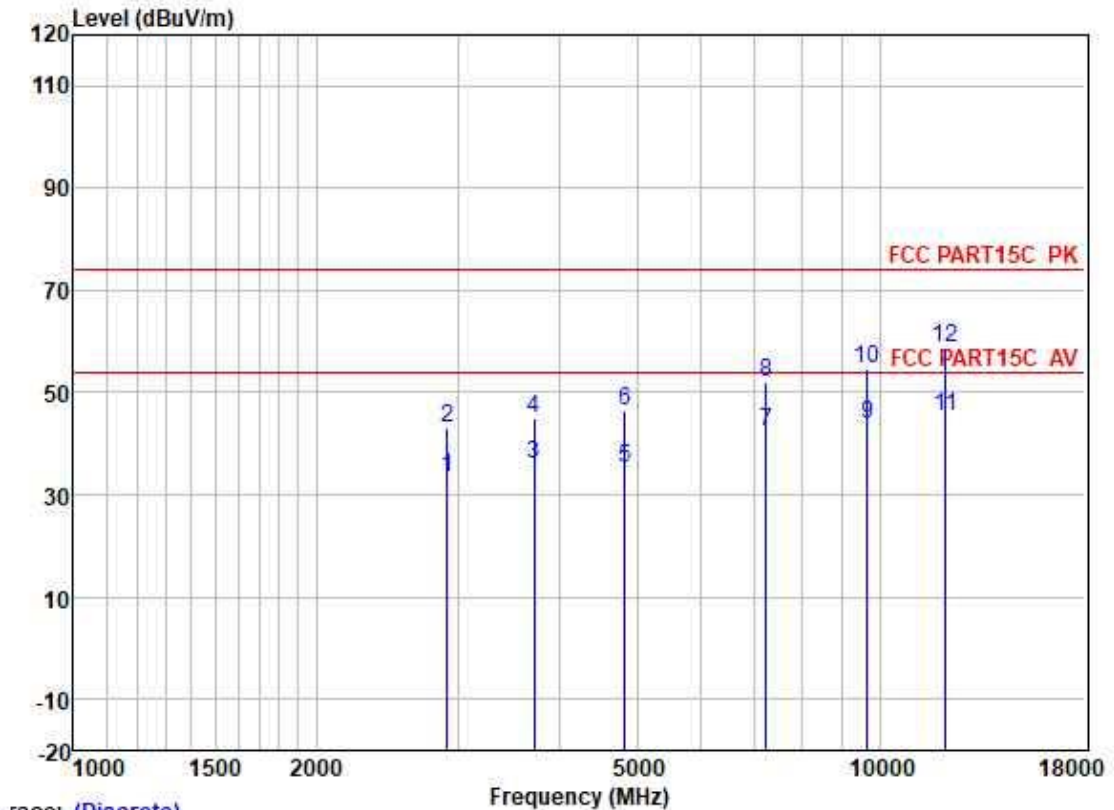
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	96.436	37.57	8.63	1.61	27.10	20.71	43.50	-22.79	HORIZONTAL QP
2	121.549	44.71	11.05	1.78	27.05	30.49	43.50	-13.01	HORIZONTAL QP
3	140.835	46.58	13.40	1.97	26.95	35.00	43.50	-8.50	HORIZONTAL QP
4	164.330	44.45	13.48	2.19	26.84	33.28	43.50	-10.22	HORIZONTAL QP
5	211.622	51.67	9.80	2.55	26.82	37.20	43.50	-6.30	HORIZONTAL QP
6	336.035	34.52	14.50	3.05	27.65	24.42	46.00	-21.58	HORIZONTAL QP



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



Trace: (Discrete)

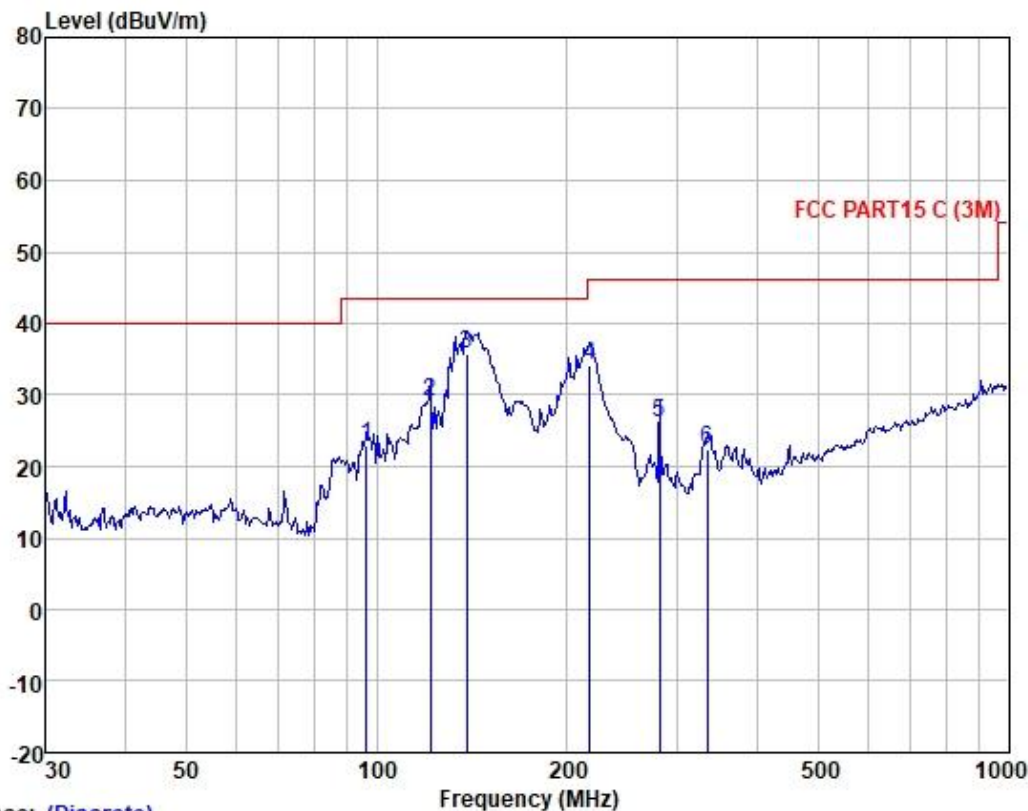
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2905.331	37.89	27.76	4.85	37.13	33.37	54.00	-20.63	HORIZONTAL Average
2	2905.331	47.68	27.76	4.85	37.13	43.16	74.00	-30.84	HORIZONTAL Peak
3	3725.195	36.98	28.64	7.42	36.92	36.12	54.00	-17.88	HORIZONTAL Average
4	3725.195	45.80	28.64	7.42	36.92	44.94	74.00	-29.06	HORIZONTAL Peak
5	4824.190	35.35	30.82	6.01	36.94	35.24	54.00	-18.76	HORIZONTAL Average
6	4824.190	46.57	30.82	6.01	36.94	46.46	74.00	-27.54	HORIZONTAL Peak
7	7236.052	36.54	35.55	7.35	36.93	42.51	54.00	-11.49	HORIZONTAL Average
8	7236.052	45.92	35.55	7.35	36.93	51.89	74.00	-22.11	HORIZONTAL Peak
9	9648.432	35.26	37.54	8.18	37.08	43.90	54.00	-10.10	HORIZONTAL Average
10	9648.432	45.85	37.54	8.18	37.08	54.49	74.00	-19.51	HORIZONTAL Peak
11	12060.470	32.25	39.46	10.71	37.17	45.25	54.00	-8.75	HORIZONTAL Average
12	12060.470	45.62	39.46	10.71	37.17	58.62	74.00	-15.38	HORIZONTAL Peak



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



Trace: (Discrete)

Site : SGS
Condition: FCC PART15 C (3M) 3m VERTICAL
Job :
Model :
Power :
Test Mode:

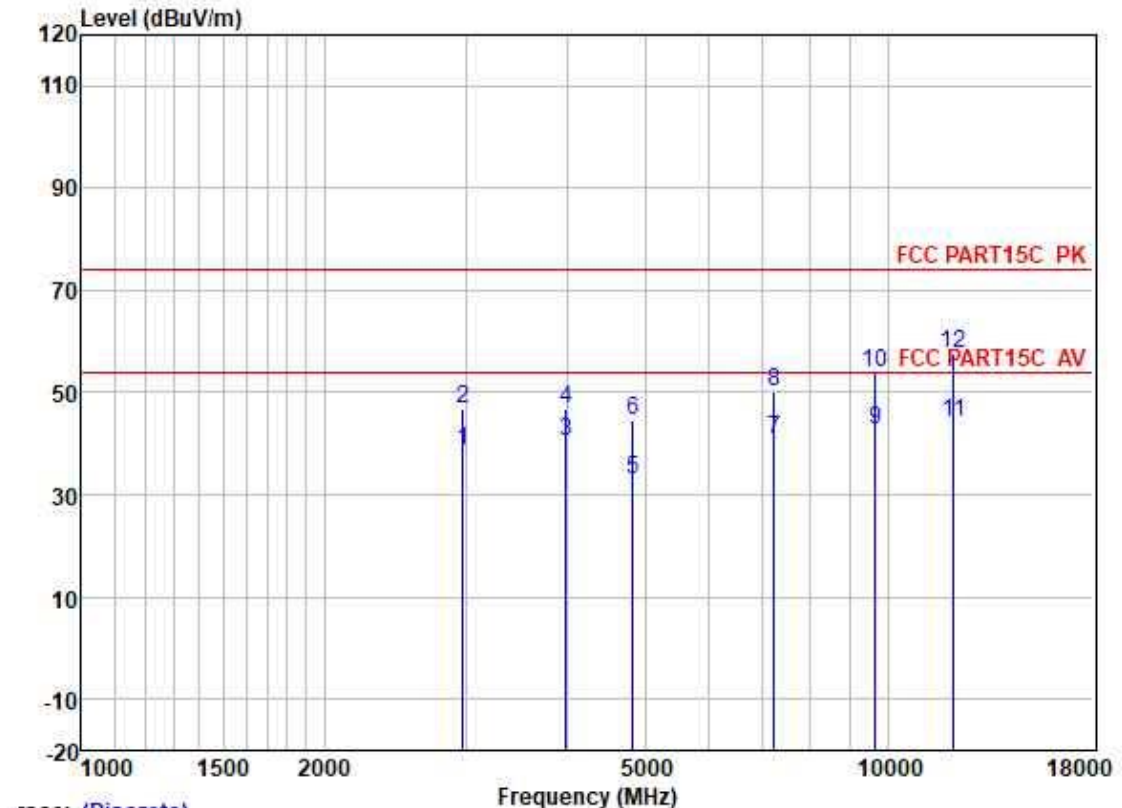
		ReadAntenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	96.436	39.74	8.63	1.61	27.10	22.88	43.50	-20.62	VERTICAL	QP
2	121.549	43.29	11.05	1.78	27.05	29.07	43.50	-14.43	VERTICAL	QP
3	138.874	47.52	13.15	1.96	26.97	35.66	43.50	-7.84	VERTICAL	QP
4	217.544	48.69	9.80	2.60	26.83	34.26	46.00	-11.74	VERTICAL	QP
5	280.024	37.17	13.20	2.79	27.07	26.09	46.00	-19.91	VERTICAL	QP
6	333.687	32.49	14.50	3.05	27.63	22.41	46.00	-23.59	VERTICAL	QP



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



Trace: (Discrete)

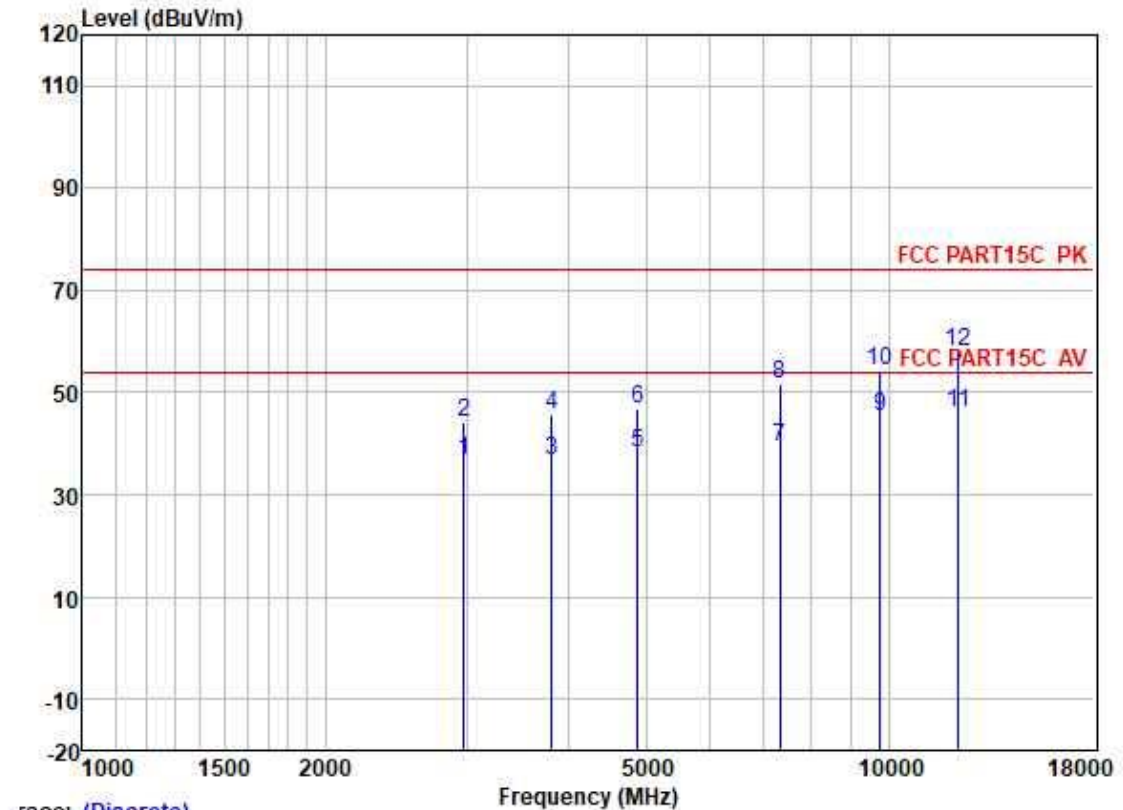
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	43.25	27.87	4.67	37.09	38.70	54.00	-15.30	VERTICAL Average
2	2973.293	51.20	27.87	4.67	37.09	46.65	74.00	-27.35	VERTICAL Peak
3	3992.781	40.58	29.48	7.26	36.90	40.42	54.00	-13.58	VERTICAL Average
4	3992.781	46.86	29.48	7.26	36.90	46.70	74.00	-27.30	VERTICAL Peak
5	4824.150	33.10	30.82	6.01	36.94	32.99	54.00	-21.01	VERTICAL Average
6	4824.150	44.51	30.82	6.01	36.94	44.40	74.00	-29.60	VERTICAL Peak
7	7236.015	34.89	35.55	7.35	36.93	40.86	54.00	-13.14	VERTICAL Average
8	7236.015	44.10	35.55	7.35	36.93	50.07	74.00	-23.93	VERTICAL Peak
9	9648.430	34.23	37.54	8.18	37.08	42.87	54.00	-11.13	VERTICAL Average
10	9648.430	45.12	37.54	8.18	37.08	53.76	74.00	-20.24	VERTICAL Peak
11	12060.520	31.23	39.46	10.71	37.17	44.23	54.00	-9.77	VERTICAL Average
12	12060.520	44.57	39.46	10.71	37.17	57.57	74.00	-16.43	VERTICAL Peak



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



Trace: (Discrete)

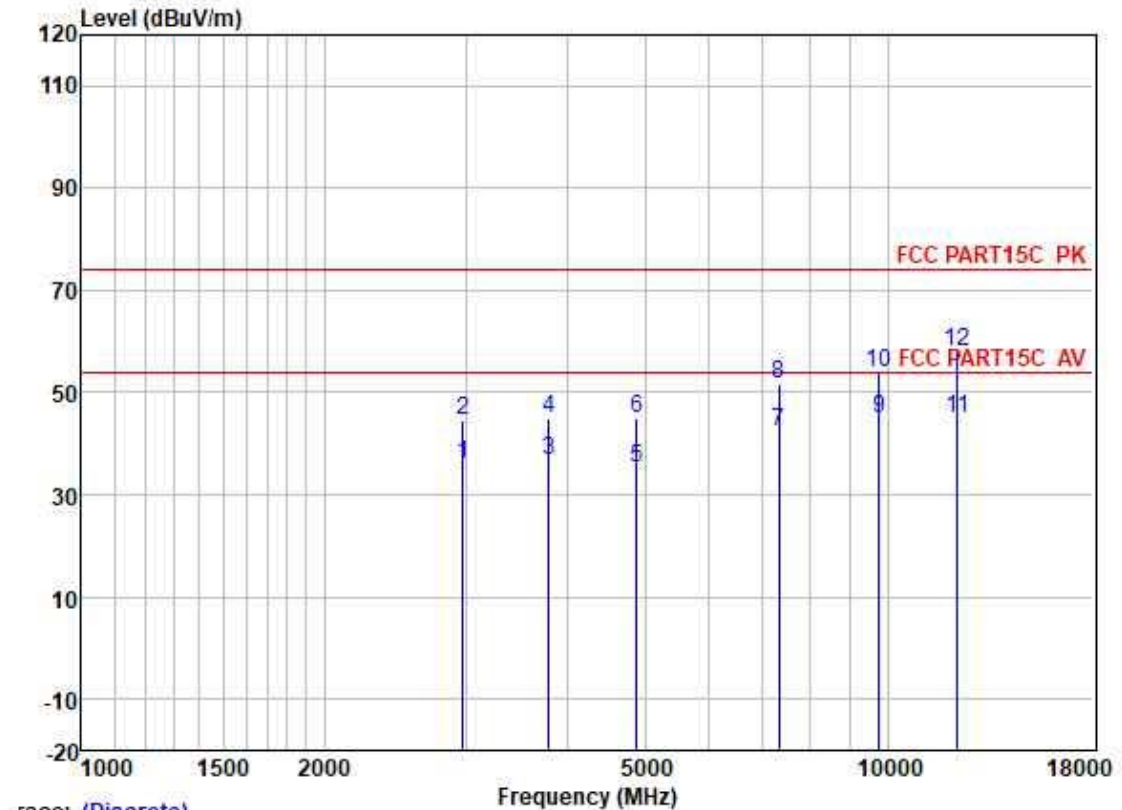
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	41.34	27.87	4.67	37.09	36.79	54.00	-17.21	HORIZONTAL Average
2	2973.293	48.95	27.87	4.67	37.09	44.40	74.00	-29.60	HORIZONTAL Peak
3	3823.371	36.92	29.08	7.83	36.91	36.92	54.00	-17.08	HORIZONTAL Average
4	3823.371	45.76	29.08	7.83	36.91	45.76	74.00	-28.24	HORIZONTAL Peak
5	4884.150	37.28	30.95	6.86	36.95	38.14	54.00	-15.86	HORIZONTAL Average
6	4884.150	45.83	30.95	6.86	36.95	46.69	74.00	-27.31	HORIZONTAL Peak
7	7326.052	32.98	35.74	7.39	36.92	39.19	54.00	-14.81	HORIZONTAL Average
8	7326.052	45.46	35.74	7.39	36.92	51.67	74.00	-22.33	HORIZONTAL Peak
9	9768.603	36.28	37.74	8.37	37.09	45.30	54.00	-8.70	HORIZONTAL Average
10	9768.603	45.35	37.74	8.37	37.09	54.37	74.00	-19.63	HORIZONTAL Peak
11	12210.210	33.11	39.21	10.98	37.06	46.24	54.00	-7.76	HORIZONTAL Average
12	12210.210	44.95	39.21	10.98	37.06	58.08	74.00	-15.92	HORIZONTAL Peak



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



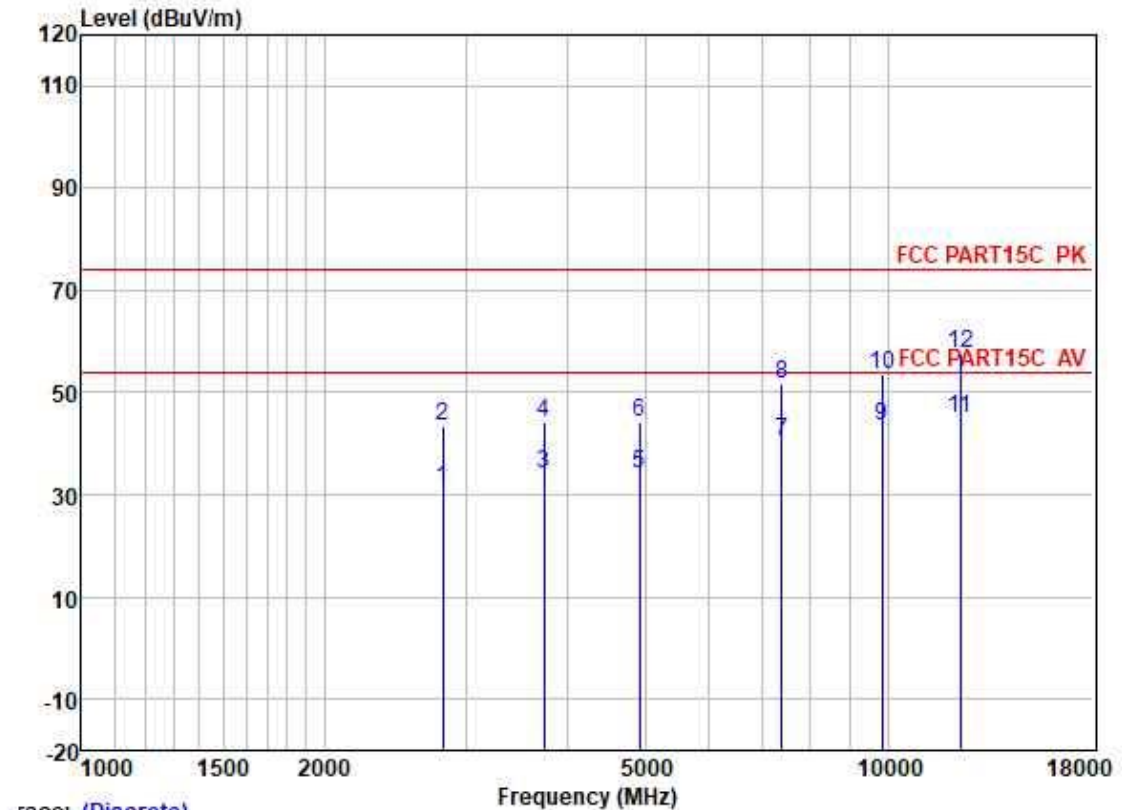
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2973.293	40.39	27.87	4.67	37.09	35.84	54.00	-18.16	VERTICAL	Average
2	2973.293	49.03	27.87	4.67	37.09	44.48	74.00	-29.52	VERTICAL	Peak
3	3801.333	36.95	29.01	7.89	36.92	36.93	54.00	-17.07	VERTICAL	Average
4	3801.333	45.16	29.01	7.89	36.92	45.14	74.00	-28.86	VERTICAL	Peak
5	4884.151	34.43	30.95	6.86	36.95	35.29	54.00	-18.71	VERTICAL	Average
6	4884.151	44.05	30.95	6.86	36.95	44.91	74.00	-29.09	VERTICAL	Peak
7	7326.461	36.03	35.74	7.39	36.92	42.24	54.00	-11.76	VERTICAL	Average
8	7326.461	45.29	35.74	7.39	36.92	51.50	74.00	-22.50	VERTICAL	Peak
9	9768.916	36.03	37.74	8.37	37.09	45.05	54.00	-8.95	VERTICAL	Average
10	9768.916	45.04	37.74	8.37	37.09	54.06	74.00	-19.94	VERTICAL	Peak
11	12210.740	31.71	39.21	10.98	37.06	44.84	54.00	-9.16	VERTICAL	Average
12	12210.740	45.02	39.21	10.98	37.06	58.15	74.00	-15.85	VERTICAL	Peak



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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Trace: (Discrete)

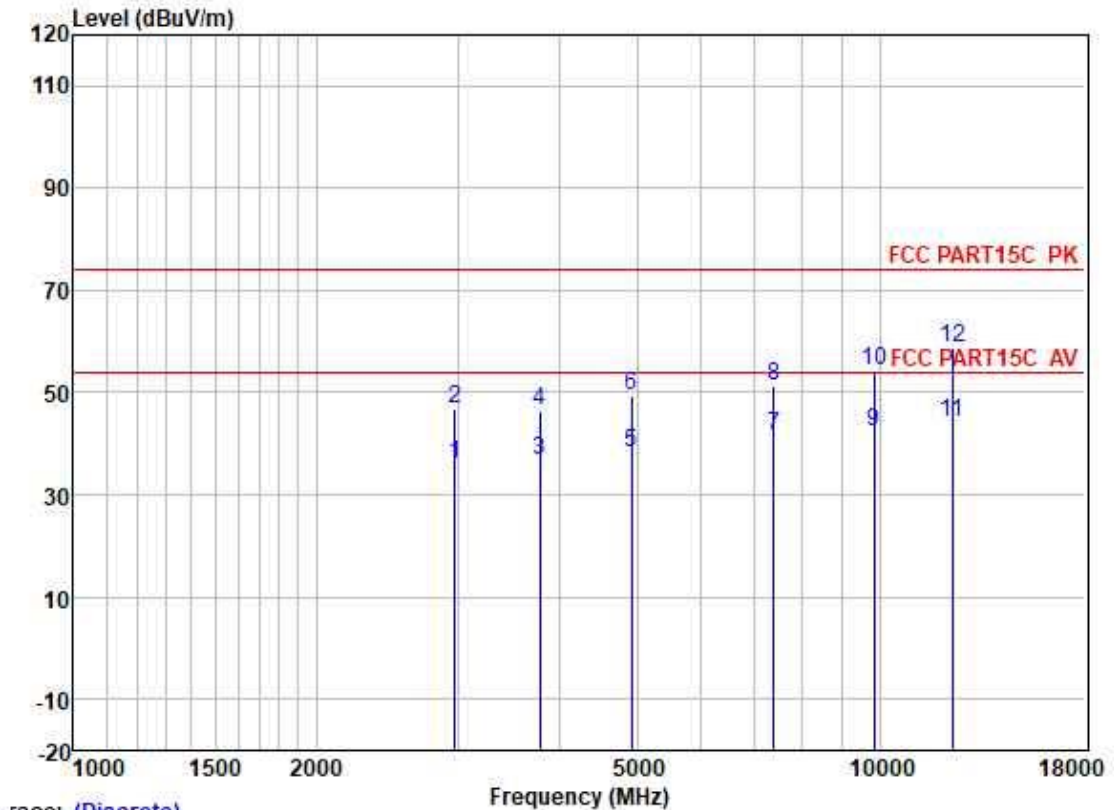
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2806.288	36.28	27.54	4.70	37.22	31.30	54.00	-22.70	HORIZONTAL	Average
2	2806.288	48.59	27.54	4.70	37.22	43.61	74.00	-30.39	HORIZONTAL	Peak
3	3746.792	34.71	28.76	7.58	36.92	34.13	54.00	-19.87	HORIZONTAL	Average
4	3746.792	44.78	28.76	7.58	36.92	44.20	74.00	-29.80	HORIZONTAL	Peak
5	4924.130	32.76	31.01	7.49	36.95	34.31	54.00	-19.69	HORIZONTAL	Average
6	4924.130	42.75	31.01	7.49	36.95	44.30	74.00	-29.70	HORIZONTAL	Peak
7	7386.429	33.97	35.85	7.42	36.92	40.32	54.00	-13.68	HORIZONTAL	Average
8	7386.429	45.15	35.85	7.42	36.92	51.50	74.00	-22.50	HORIZONTAL	Peak
9	9848.149	34.30	37.82	8.46	37.09	43.49	54.00	-10.51	HORIZONTAL	Average
10	9848.149	44.41	37.82	8.46	37.09	53.60	74.00	-20.40	HORIZONTAL	Peak
11	12310.350	31.78	39.03	11.10	36.97	44.94	54.00	-9.06	HORIZONTAL	Average
12	12310.350	44.36	39.03	11.10	36.97	57.52	74.00	-16.48	HORIZONTAL	Peak



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



Trace: (Discrete)

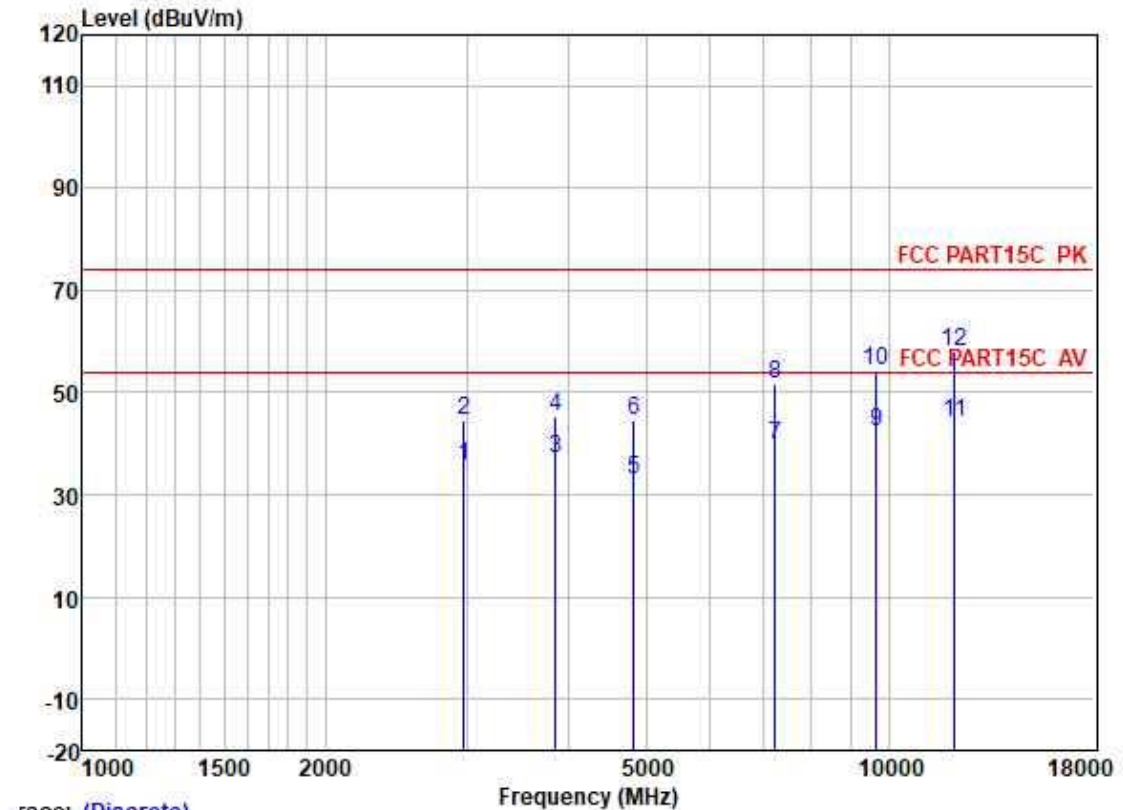
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	40.69	27.87	4.67	37.09	36.14	54.00	-17.86	VERTICAL Average
2	2973.293	51.27	27.87	4.67	37.09	46.72	74.00	-27.28	VERTICAL Peak
3	3790.361	37.05	28.97	7.83	36.92	36.93	54.00	-17.07	VERTICAL Average
4	3790.361	46.42	28.97	7.83	36.92	46.30	74.00	-27.70	VERTICAL Peak
5	4924.190	36.60	31.01	7.49	36.95	38.15	54.00	-15.85	VERTICAL Average
6	4924.190	47.78	31.01	7.49	36.95	49.33	74.00	-24.67	VERTICAL Peak
7	7396.646	35.28	35.85	7.42	36.92	41.63	54.00	-12.37	VERTICAL Average
8	7396.646	44.98	35.85	7.42	36.92	51.33	74.00	-22.67	VERTICAL Peak
9	9848.991	33.02	37.82	8.46	37.09	42.21	54.00	-11.79	VERTICAL Average
10	9848.991	45.21	37.82	8.46	37.09	54.40	74.00	-19.60	VERTICAL Peak
11	12310.610	31.07	39.03	11.10	36.97	44.23	54.00	-9.77	VERTICAL Average
12	12310.610	45.72	39.03	11.10	36.97	58.88	74.00	-15.12	VERTICAL Peak



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



Trace: (Discrete)

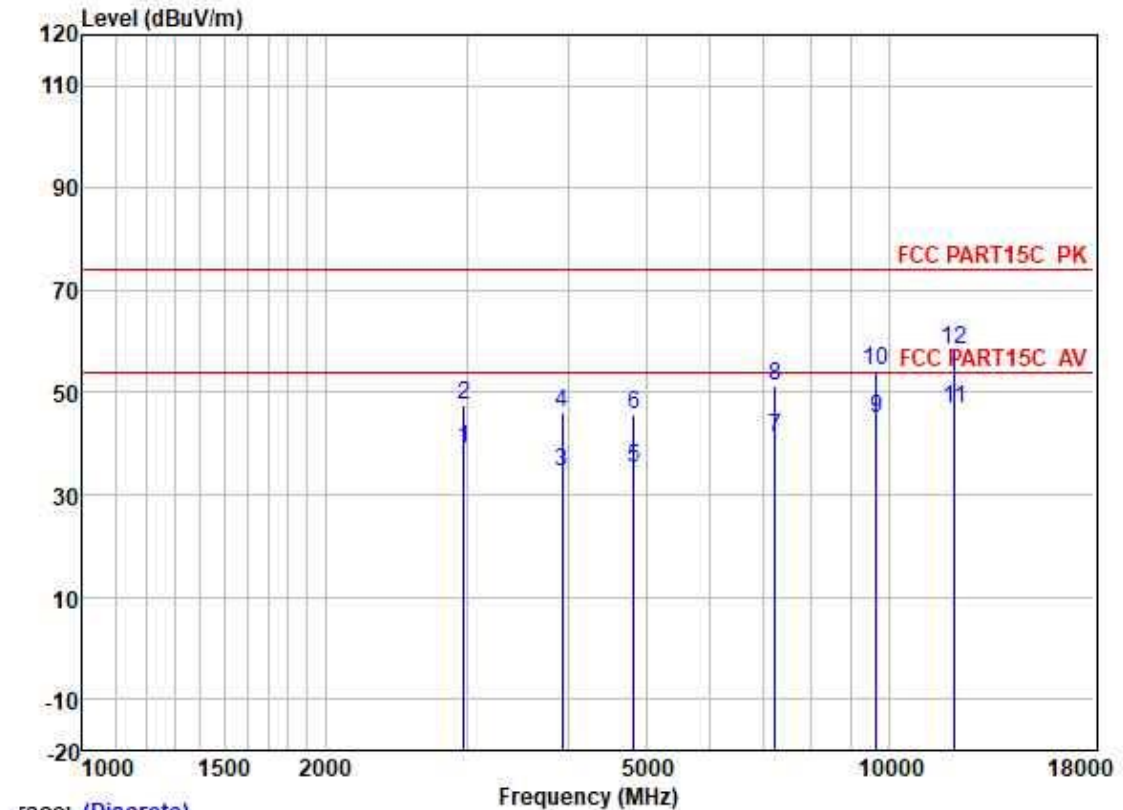
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	40.26	27.87	4.67	37.09	35.71	54.00	-18.29	HORIZONTAL Average
2	2973.293	49.05	27.87	4.67	37.09	44.50	74.00	-29.50	HORIZONTAL Peak
3	3856.668	36.98	29.19	7.73	36.91	36.99	54.00	-17.01	HORIZONTAL Average
4	3856.668	45.46	29.19	7.73	36.91	45.47	74.00	-28.53	HORIZONTAL Peak
5	4824.016	33.02	30.82	6.01	36.94	32.91	54.00	-21.09	HORIZONTAL Average
6	4824.016	44.63	30.82	6.01	36.94	44.52	74.00	-29.48	HORIZONTAL Peak
7	7236.309	33.92	35.55	7.35	36.93	39.89	54.00	-14.11	HORIZONTAL Average
8	7236.309	45.86	35.55	7.35	36.93	51.83	74.00	-22.17	HORIZONTAL Peak
9	9648.432	33.56	37.54	8.18	37.08	42.20	54.00	-11.80	HORIZONTAL Average
10	9648.432	45.64	37.54	8.18	37.08	54.28	74.00	-19.72	HORIZONTAL Peak
11	12060.900	31.17	39.46	10.71	37.17	44.17	54.00	-9.83	HORIZONTAL Average
12	12060.900	45.09	39.46	10.71	37.17	58.09	74.00	-15.91	HORIZONTAL Peak



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



Trace: (Discrete)

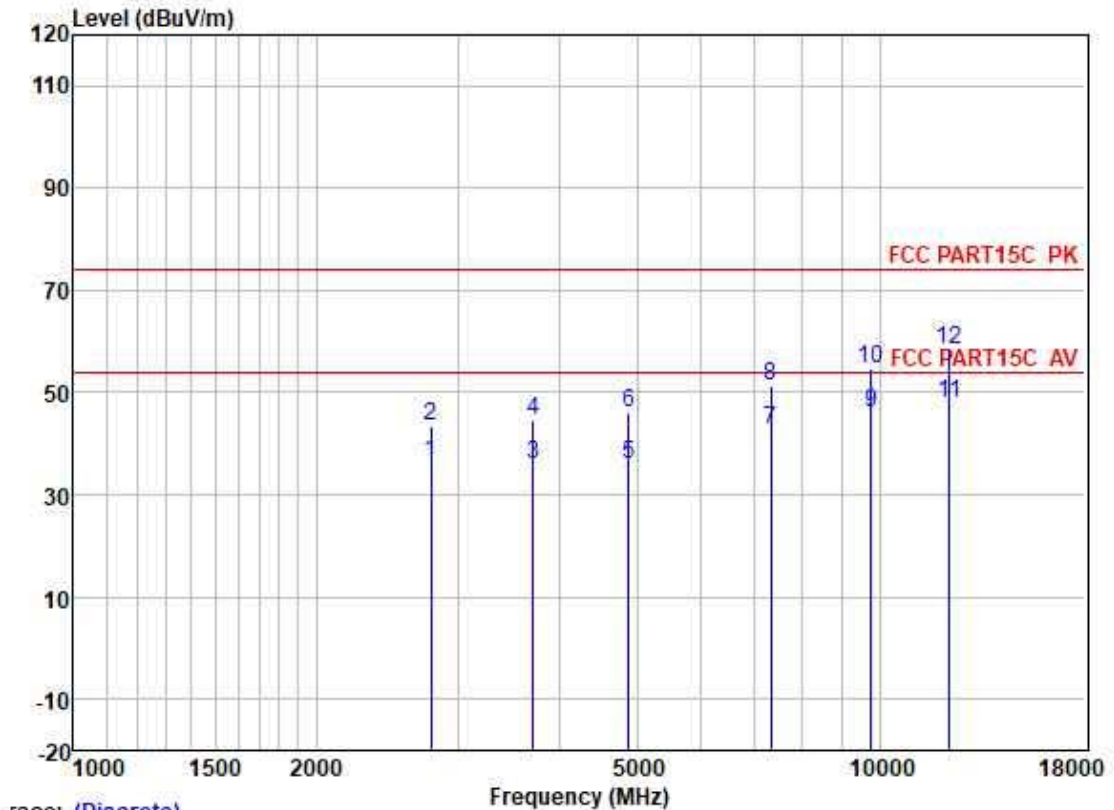
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	43.65	27.87	4.67	37.09	39.10	54.00	-14.90	VERTICAL Average
2	2973.293	52.12	27.87	4.67	37.09	47.57	74.00	-26.43	VERTICAL Peak
3	3935.493	34.57	29.37	7.43	36.90	34.47	54.00	-19.53	VERTICAL Average
4	3935.493	46.03	29.37	7.43	36.90	45.93	74.00	-28.07	VERTICAL Peak
5	4824.016	35.39	30.82	6.01	36.94	35.28	54.00	-18.72	VERTICAL Average
6	4824.016	45.73	30.82	6.01	36.94	45.62	74.00	-28.38	VERTICAL Peak
7	7236.015	35.09	35.55	7.35	36.93	41.06	54.00	-12.94	VERTICAL Average
8	7236.015	45.21	35.55	7.35	36.93	51.18	74.00	-22.82	VERTICAL Peak
9	9648.151	36.26	37.54	8.18	37.08	44.90	54.00	-9.10	VERTICAL Average
10	9648.151	45.59	37.54	8.18	37.08	54.23	74.00	-19.77	VERTICAL Peak
11	12060.440	33.98	39.46	10.71	37.17	46.98	54.00	-7.02	VERTICAL Average
12	12060.440	45.23	39.46	10.71	37.17	58.23	74.00	-15.77	VERTICAL Peak



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



Trace: (Discrete)

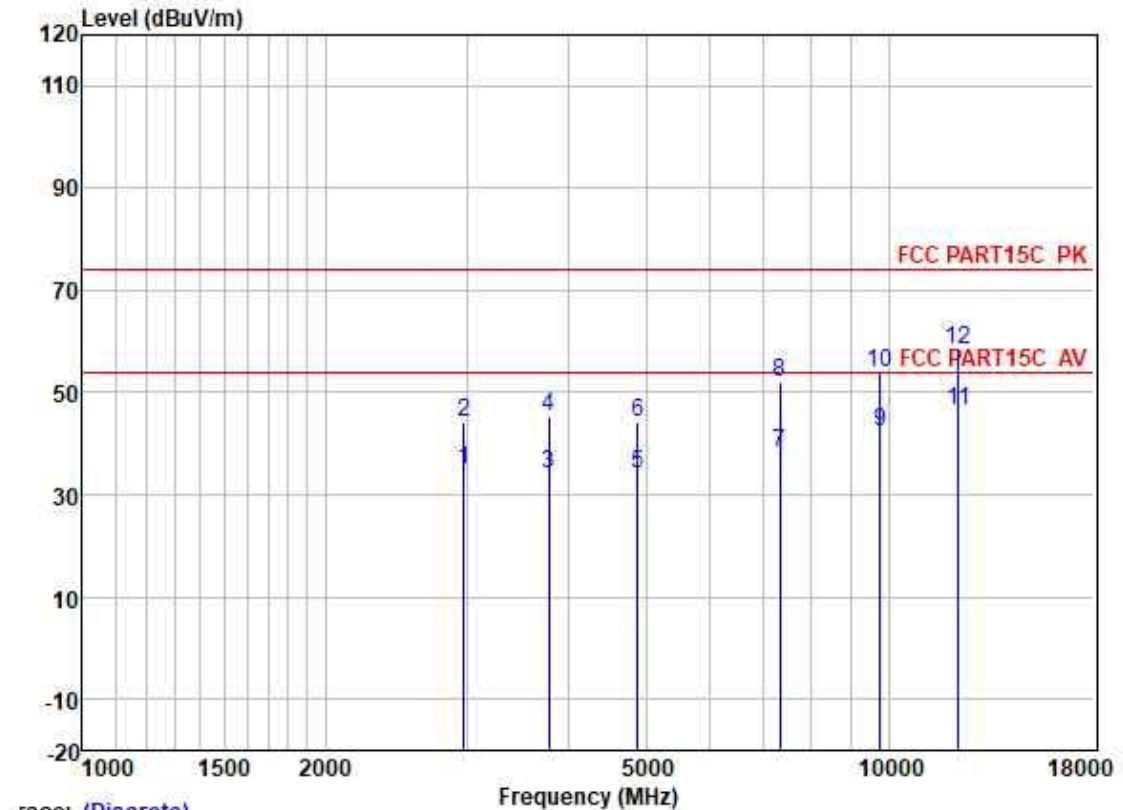
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2774.030	41.38	27.43	4.72	37.26	36.27	54.00	-17.73	HORIZONTAL Average
2	2774.030	48.56	27.43	4.72	37.26	43.45	74.00	-30.55	HORIZONTAL Peak
3	3714.443	36.98	28.58	7.34	36.93	35.97	54.00	-18.03	HORIZONTAL Average
4	3714.443	45.51	28.58	7.34	36.93	44.50	74.00	-29.50	HORIZONTAL Peak
5	4884.130	35.12	30.95	6.86	36.95	35.98	54.00	-18.02	HORIZONTAL Average
6	4884.130	45.24	30.95	6.86	36.95	46.10	74.00	-27.90	HORIZONTAL Peak
7	7326.015	36.38	35.74	7.39	36.92	42.59	54.00	-11.41	HORIZONTAL Average
8	7326.015	45.11	35.74	7.39	36.92	51.32	74.00	-22.68	HORIZONTAL Peak
9	9768.018	36.98	37.74	8.37	37.09	46.00	54.00	-8.00	HORIZONTAL Average
10	9768.018	45.47	37.74	8.37	37.09	54.49	74.00	-19.51	HORIZONTAL Peak
11	12210.740	34.72	39.21	10.98	37.06	47.85	54.00	-6.15	HORIZONTAL Average
12	12210.740	45.12	39.21	10.98	37.06	58.25	74.00	-15.75	HORIZONTAL Peak



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



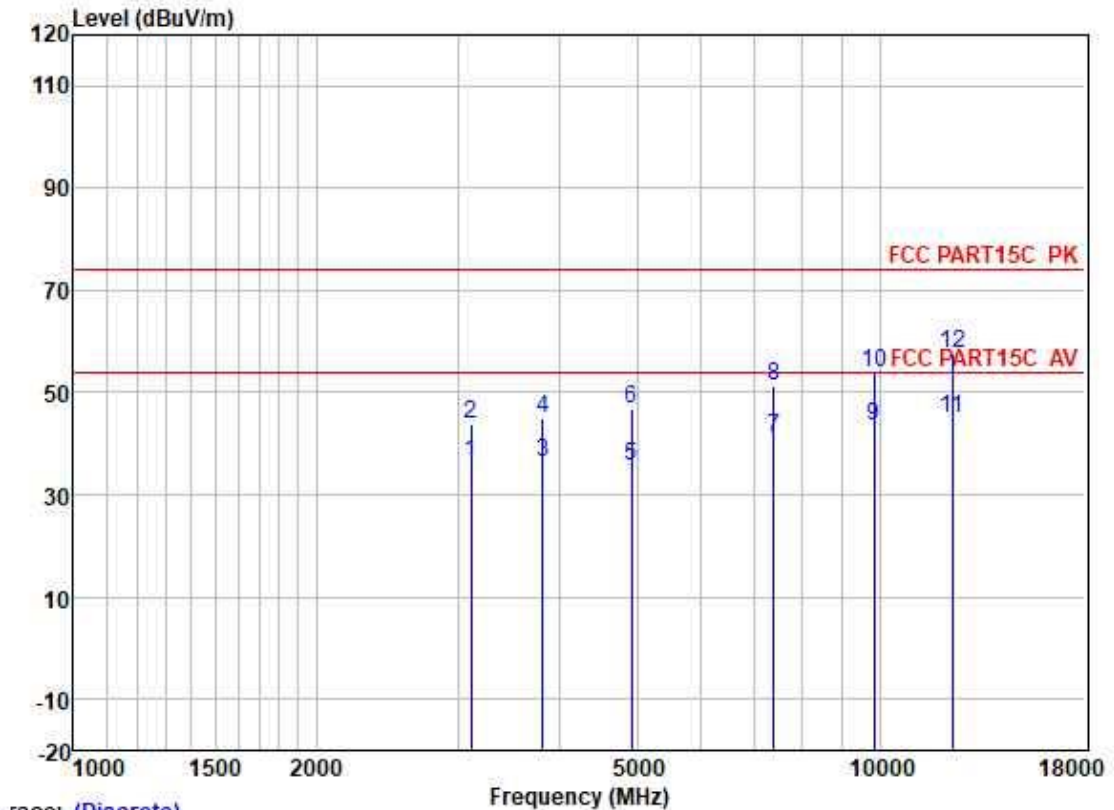
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	39.61	27.87	4.67	37.09	35.06	54.00	-18.94	VERTICAL Average
2	2973.293	48.86	27.87	4.67	37.09	44.31	74.00	-29.69	VERTICAL Peak
3	3790.361	34.27	28.97	7.83	36.92	34.15	54.00	-19.85	VERTICAL Average
4	3790.361	45.40	28.97	7.83	36.92	45.28	74.00	-28.72	VERTICAL Peak
5	4884.993	33.26	30.95	6.86	36.95	34.12	54.00	-19.88	VERTICAL Average
6	4884.993	43.46	30.95	6.86	36.95	44.32	74.00	-29.68	VERTICAL Peak
7	7326.006	32.03	35.74	7.39	36.92	38.24	54.00	-15.76	VERTICAL Average
8	7326.006	45.69	35.74	7.39	36.92	51.90	74.00	-22.10	VERTICAL Peak
9	9768.349	33.23	37.74	8.37	37.09	42.25	54.00	-11.75	VERTICAL Average
10	9768.349	45.05	37.74	8.37	37.09	54.07	74.00	-19.93	VERTICAL Peak
11	12210.350	33.24	39.21	10.98	37.06	46.37	54.00	-7.63	VERTICAL Average
12	12210.350	45.34	39.21	10.98	37.06	58.47	74.00	-15.53	VERTICAL Peak



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



Trace: (Discrete)

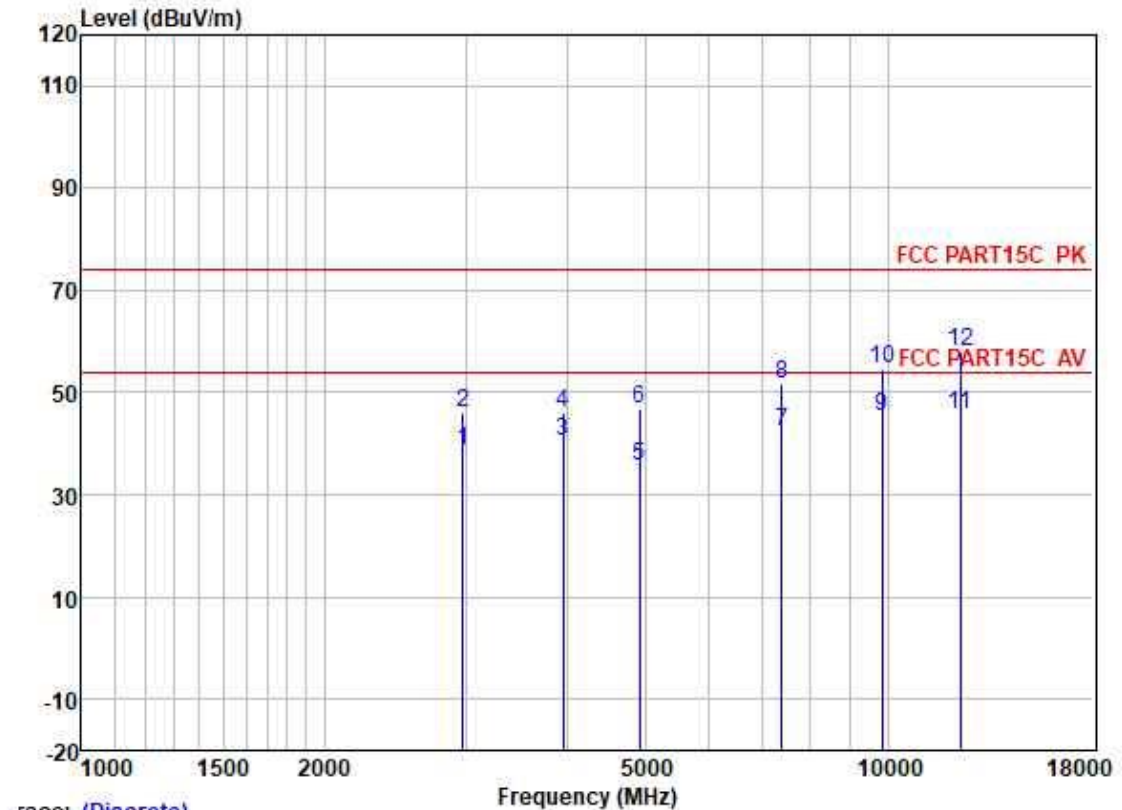
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3114.025	40.18	27.90	5.44	37.03	36.49	54.00	-17.51	HORIZONTAL Average
2	3114.025	47.64	27.90	5.44	37.03	43.95	74.00	-30.05	HORIZONTAL Peak
3	3823.371	36.29	29.08	7.83	36.91	36.29	54.00	-17.71	HORIZONTAL Average
4	3823.371	44.85	29.08	7.83	36.91	44.85	74.00	-29.15	HORIZONTAL Peak
5	4924.396	33.94	31.01	7.49	36.95	35.49	54.00	-18.51	HORIZONTAL Average
6	4924.396	45.16	31.01	7.49	36.95	46.71	74.00	-27.29	HORIZONTAL Peak
7	7386.015	34.79	35.85	7.42	36.92	41.14	54.00	-12.86	HORIZONTAL Average
8	7386.015	45.01	35.85	7.42	36.92	51.36	74.00	-22.64	HORIZONTAL Peak
9	9848.432	34.25	37.82	8.46	37.09	43.44	54.00	-10.56	HORIZONTAL Average
10	9848.432	44.86	37.82	8.46	37.09	54.05	74.00	-19.95	HORIZONTAL Peak
11	12310.390	31.71	39.03	11.10	36.97	44.87	54.00	-9.13	HORIZONTAL Average
12	12310.390	44.49	39.03	11.10	36.97	57.65	74.00	-16.35	HORIZONTAL Peak



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



Trace: (Discrete)

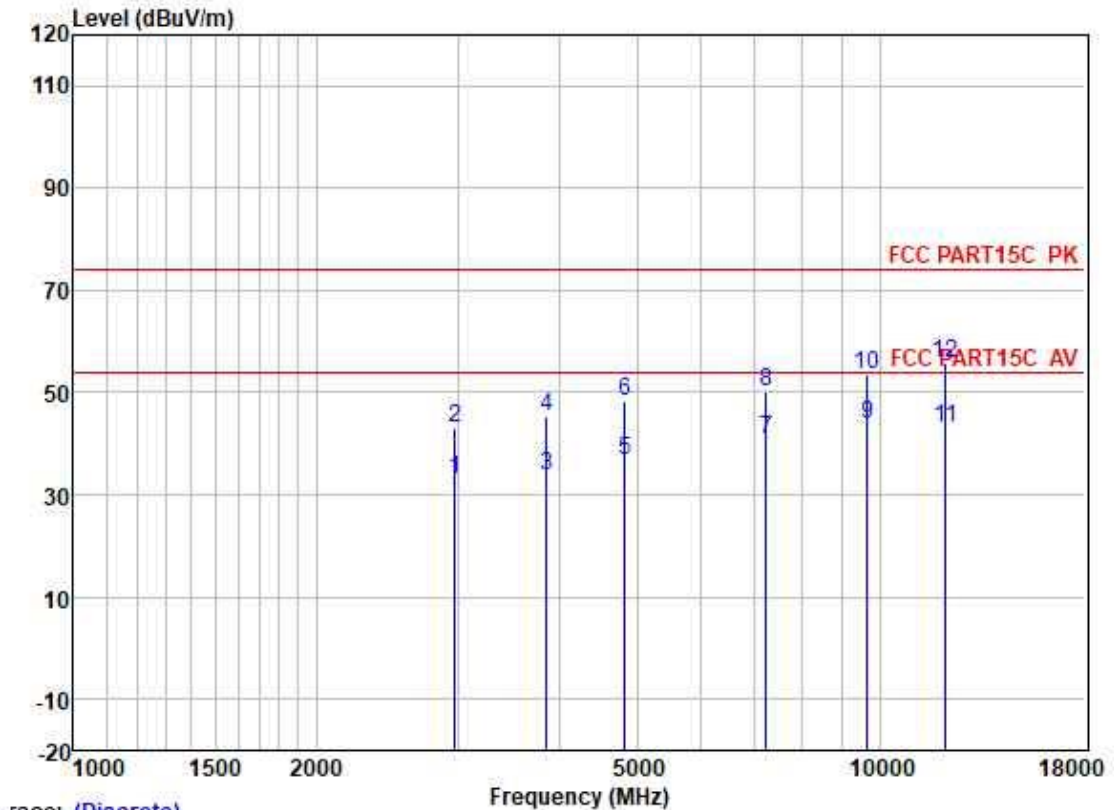
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	43.22	27.87	4.67	37.09	38.67	54.00	-15.33	VERTICAL Average
2	2973.293	50.54	27.87	4.67	37.09	45.99	74.00	-28.01	VERTICAL Peak
3	3958.309	40.59	29.42	7.35	36.90	40.46	54.00	-13.54	VERTICAL Average
4	3958.309	46.25	29.42	7.35	36.90	46.12	74.00	-27.88	VERTICAL Peak
5	4924.662	33.97	31.01	7.49	36.95	35.52	54.00	-18.48	VERTICAL Average
6	4924.662	45.26	31.01	7.49	36.95	46.81	74.00	-27.19	VERTICAL Peak
7	7386.888	36.18	35.85	7.42	36.92	42.53	54.00	-11.47	VERTICAL Average
8	7386.888	45.23	35.85	7.42	36.92	51.58	74.00	-22.42	VERTICAL Peak
9	9848.018	36.03	37.82	8.46	37.09	45.22	54.00	-8.78	VERTICAL Average
10	9848.018	45.44	37.82	8.46	37.09	54.63	74.00	-19.37	VERTICAL Peak
11	12310.130	32.72	39.03	11.10	36.97	45.88	54.00	-8.12	VERTICAL Average
12	12310.130	44.89	39.03	11.10	36.97	58.05	74.00	-15.95	VERTICAL Peak



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



Trace: (Discrete)

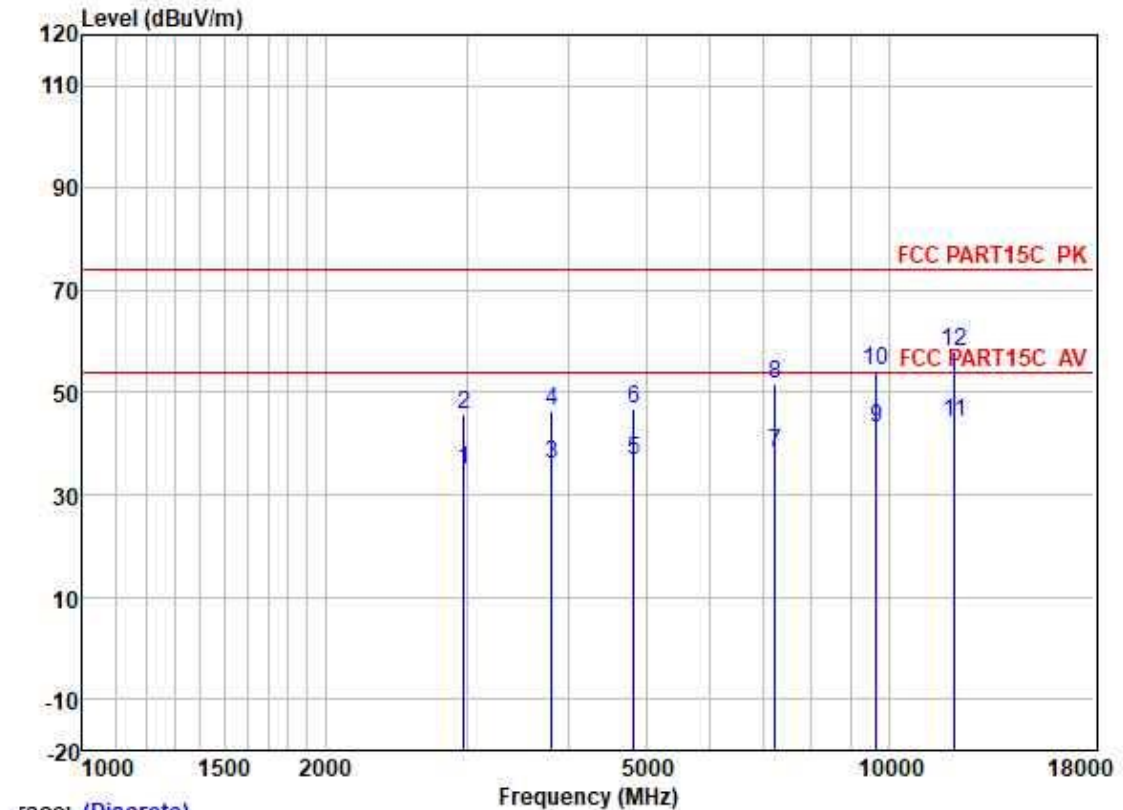
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	37.71	27.87	4.67	37.09	33.16	54.00	-20.84	HORIZONTAL Average
2	2973.293	47.76	27.87	4.67	37.09	43.21	74.00	-30.79	HORIZONTAL Peak
3	3856.668	33.92	29.19	7.73	36.91	33.93	54.00	-20.07	HORIZONTAL Average
4	3856.668	45.49	29.19	7.73	36.91	45.50	74.00	-28.50	HORIZONTAL Peak
5	4824.110	36.84	30.82	6.01	36.94	36.73	54.00	-17.27	HORIZONTAL Average
6	4824.110	48.33	30.82	6.01	36.94	48.22	74.00	-25.78	HORIZONTAL Peak
7	7236.267	34.87	35.55	7.35	36.93	40.84	54.00	-13.16	HORIZONTAL Average
8	7236.267	44.09	35.55	7.35	36.93	50.06	74.00	-23.94	HORIZONTAL Peak
9	9648.257	35.37	37.54	8.18	37.08	44.01	54.00	-9.99	HORIZONTAL Average
10	9648.257	44.84	37.54	8.18	37.08	53.48	74.00	-20.52	HORIZONTAL Peak
11	12060.690	30.17	39.46	10.71	37.17	43.17	54.00	-10.83	HORIZONTAL Average
12	12060.690	42.61	39.46	10.71	37.17	55.61	74.00	-18.39	HORIZONTAL Peak



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Trace: (Discrete)

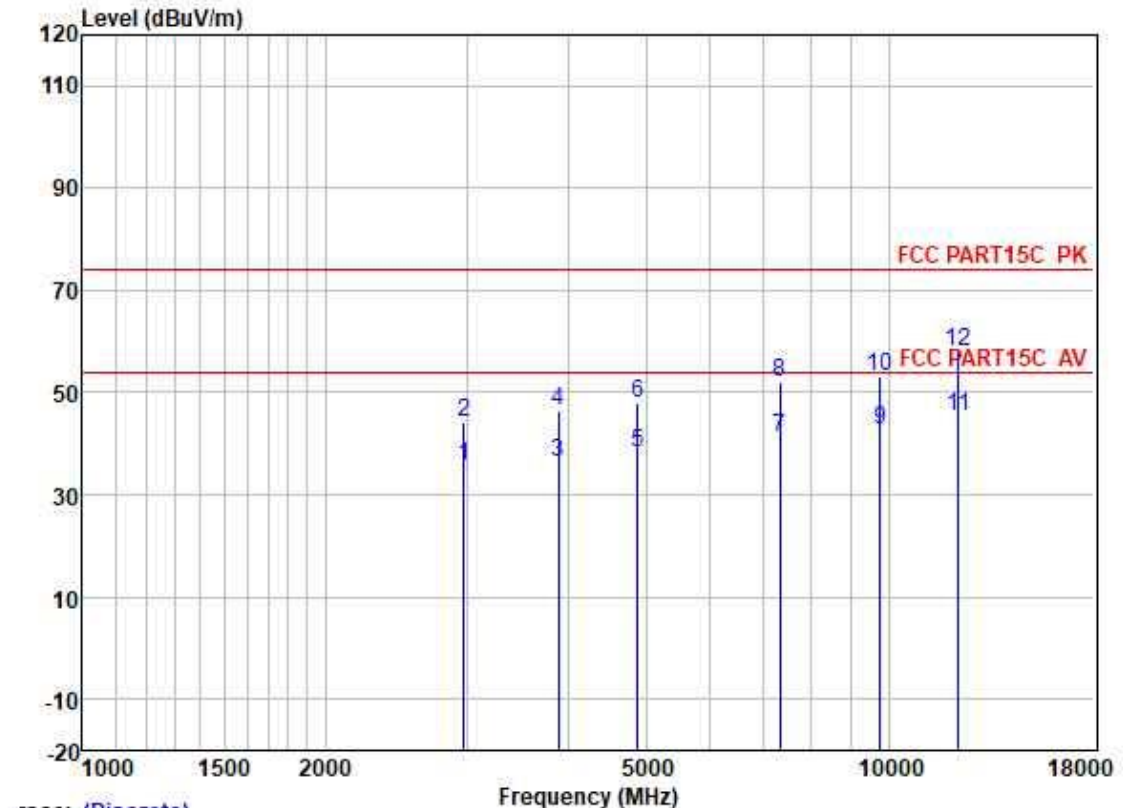
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	39.33	27.87	4.67	37.09	34.78	54.00	-19.22	VERTICAL Average
2	2973.293	50.23	27.87	4.67	37.09	45.68	74.00	-28.32	VERTICAL Peak
3	3823.371	35.83	29.08	7.83	36.91	35.83	54.00	-18.17	VERTICAL Average
4	3823.371	46.35	29.08	7.83	36.91	46.35	74.00	-27.65	VERTICAL Peak
5	4824.016	36.95	30.82	6.01	36.94	36.84	54.00	-17.16	VERTICAL Average
6	4824.016	47.06	30.82	6.01	36.94	46.95	74.00	-27.05	VERTICAL Peak
7	7236.309	32.23	35.55	7.35	36.93	38.20	54.00	-15.80	VERTICAL Average
8	7236.309	45.79	35.55	7.35	36.93	51.76	74.00	-22.24	VERTICAL Peak
9	9648.257	34.43	37.54	8.18	37.08	43.07	54.00	-10.93	VERTICAL Average
10	9648.257	45.48	37.54	8.18	37.08	54.12	74.00	-19.88	VERTICAL Peak
11	12060.270	31.28	39.46	10.71	37.17	44.28	54.00	-9.72	VERTICAL Average
12	12060.270	44.92	39.46	10.71	37.17	57.92	74.00	-16.08	VERTICAL Peak



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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



Trace: (Discrete)

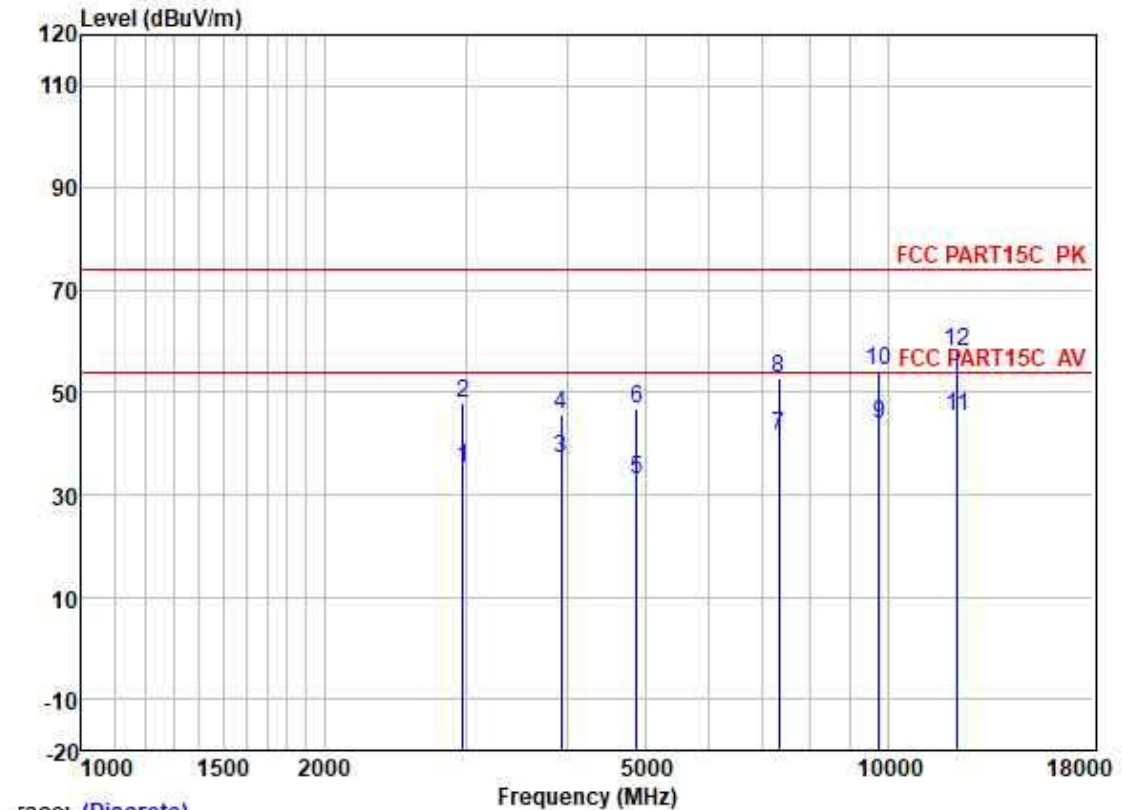
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	40.02	27.87	4.67	37.09	35.47	54.00	-18.53	HORIZONTAL Average
2	2973.293	48.64	27.87	4.67	37.09	44.09	74.00	-29.91	HORIZONTAL Peak
3	3890.255	36.32	29.27	7.61	36.91	36.29	54.00	-17.71	HORIZONTAL Average
4	3890.255	46.65	29.27	7.61	36.91	46.62	74.00	-27.38	HORIZONTAL Peak
5	4884.151	37.31	30.95	6.86	36.95	38.17	54.00	-15.83	HORIZONTAL Average
6	4884.151	47.08	30.95	6.86	36.95	47.94	74.00	-26.06	HORIZONTAL Peak
7	7326.267	35.02	35.74	7.39	36.92	41.23	54.00	-12.77	HORIZONTAL Average
8	7326.267	45.84	35.74	7.39	36.92	52.05	74.00	-21.95	HORIZONTAL Peak
9	9768.018	33.71	37.74	8.37	37.09	42.73	54.00	-11.27	HORIZONTAL Average
10	9768.018	44.31	37.74	8.37	37.09	53.33	74.00	-20.67	HORIZONTAL Peak
11	12210.130	32.04	39.21	10.98	37.06	45.17	54.00	-8.83	HORIZONTAL Average
12	12210.130	45.06	39.21	10.98	37.06	58.19	74.00	-15.81	HORIZONTAL Peak



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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



Trace: (Discrete)

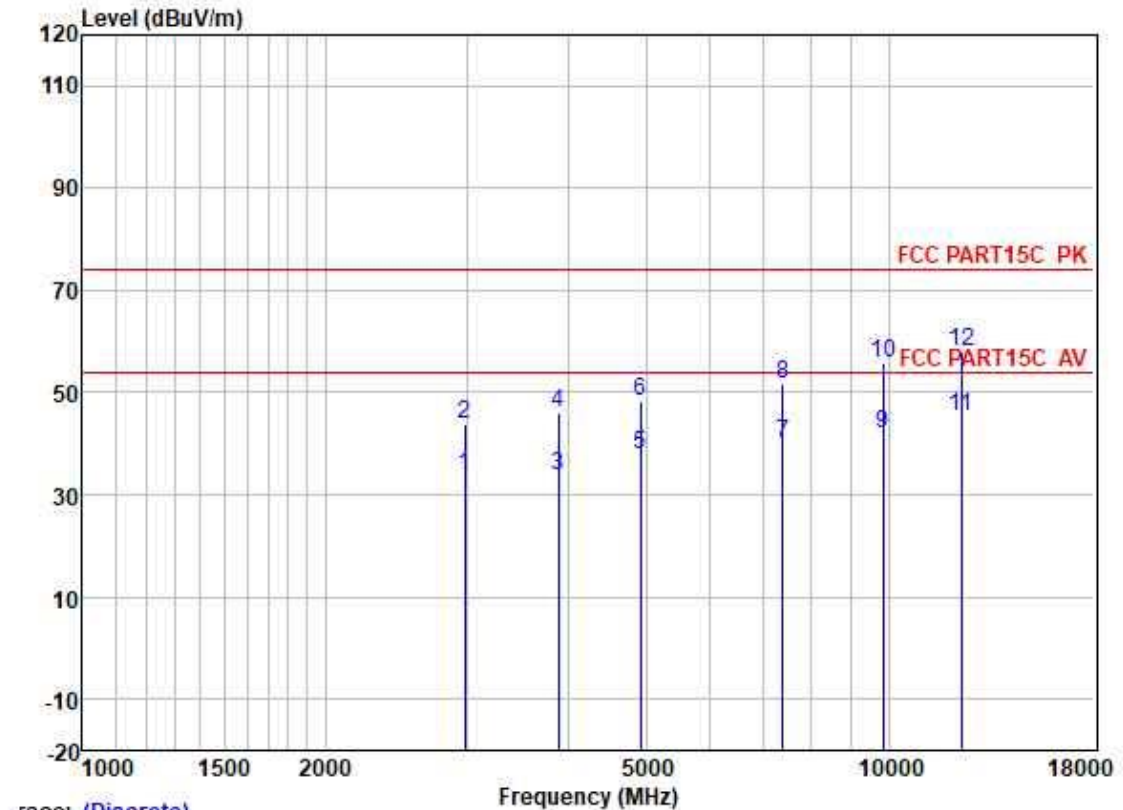
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	39.69	27.87	4.67	37.09	35.14	54.00	-18.86	VERTICAL Average
2	2973.293	52.53	27.87	4.67	37.09	47.98	74.00	-26.02	VERTICAL Peak
3	3935.493	37.27	29.37	7.43	36.90	37.17	54.00	-16.83	VERTICAL Average
4	3935.493	45.81	29.37	7.43	36.90	45.71	74.00	-28.29	VERTICAL Peak
5	4884.043	32.26	30.95	6.86	36.95	33.12	54.00	-20.88	VERTICAL Average
6	4884.043	46.00	30.95	6.86	36.95	46.86	74.00	-27.14	VERTICAL Peak
7	7326.857	35.21	35.74	7.39	36.92	41.42	54.00	-12.58	VERTICAL Average
8	7326.857	46.71	35.74	7.39	36.92	52.92	74.00	-21.08	VERTICAL Peak
9	9768.151	34.77	37.74	8.37	37.09	43.79	54.00	-10.21	VERTICAL Average
10	9768.151	45.22	37.74	8.37	37.09	54.24	74.00	-19.76	VERTICAL Peak
11	12210.620	32.04	39.21	10.98	37.06	45.17	54.00	-8.83	VERTICAL Average
12	12210.620	44.83	39.21	10.98	37.06	57.96	74.00	-16.04	VERTICAL Peak



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



Trace: (Discrete)

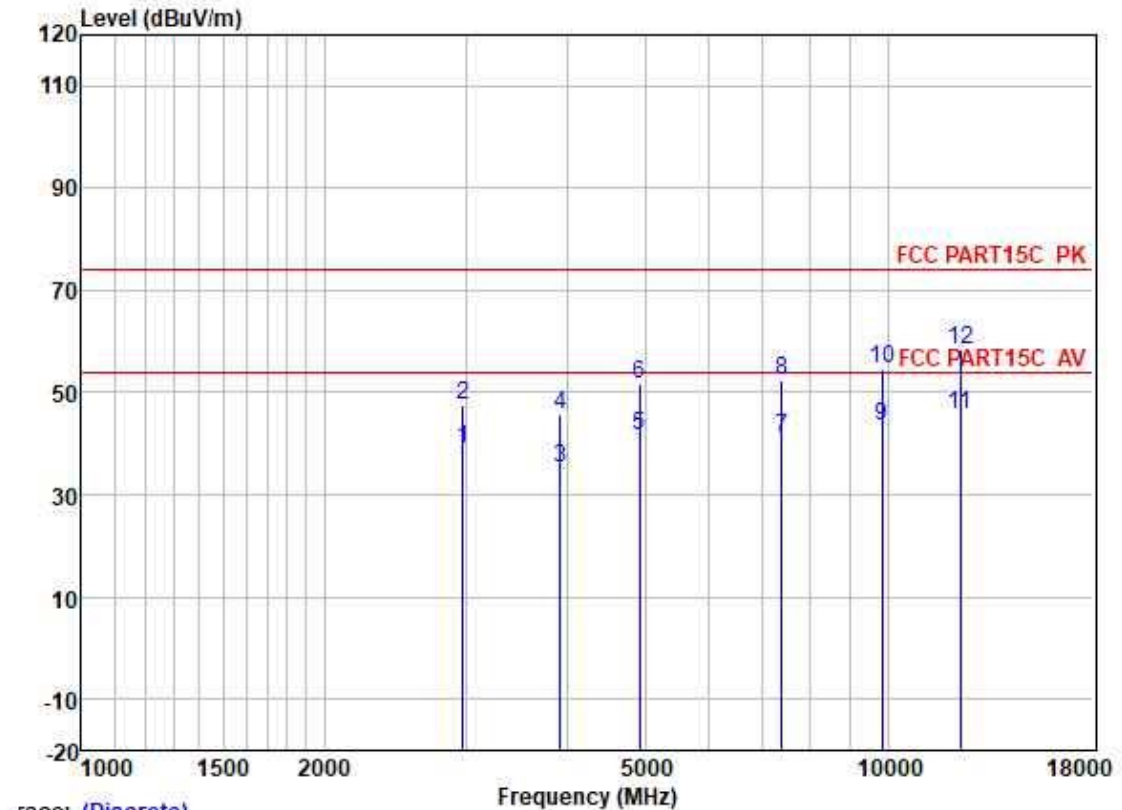
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2981.899	38.30	27.88	4.65	37.08	33.75	54.00	-20.25	HORIZONTAL Average
2	2981.899	48.44	27.88	4.65	37.08	43.89	74.00	-30.11	HORIZONTAL Peak
3	3890.255	33.96	29.27	7.61	36.91	33.93	54.00	-20.07	HORIZONTAL Average
4	3890.255	46.05	29.27	7.61	36.91	46.02	74.00	-27.98	HORIZONTAL Peak
5	4924.490	36.31	31.01	7.49	36.95	37.86	54.00	-16.14	HORIZONTAL Average
6	4924.490	46.80	31.01	7.49	36.95	48.35	74.00	-25.65	HORIZONTAL Peak
7	7386.741	33.91	35.85	7.42	36.92	40.26	54.00	-13.74	HORIZONTAL Average
8	7386.741	45.44	35.85	7.42	36.92	51.79	74.00	-22.21	HORIZONTAL Peak
9	9848.525	32.95	37.82	8.46	37.09	42.14	54.00	-11.86	HORIZONTAL Average
10	9848.525	46.58	37.82	8.46	37.09	55.77	74.00	-18.23	HORIZONTAL Peak
11	12310.950	32.11	39.03	11.10	36.97	45.27	54.00	-8.73	HORIZONTAL Average
12	12310.950	44.99	39.03	11.10	36.97	58.15	74.00	-15.85	HORIZONTAL Peak



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



Trace: (Discrete)

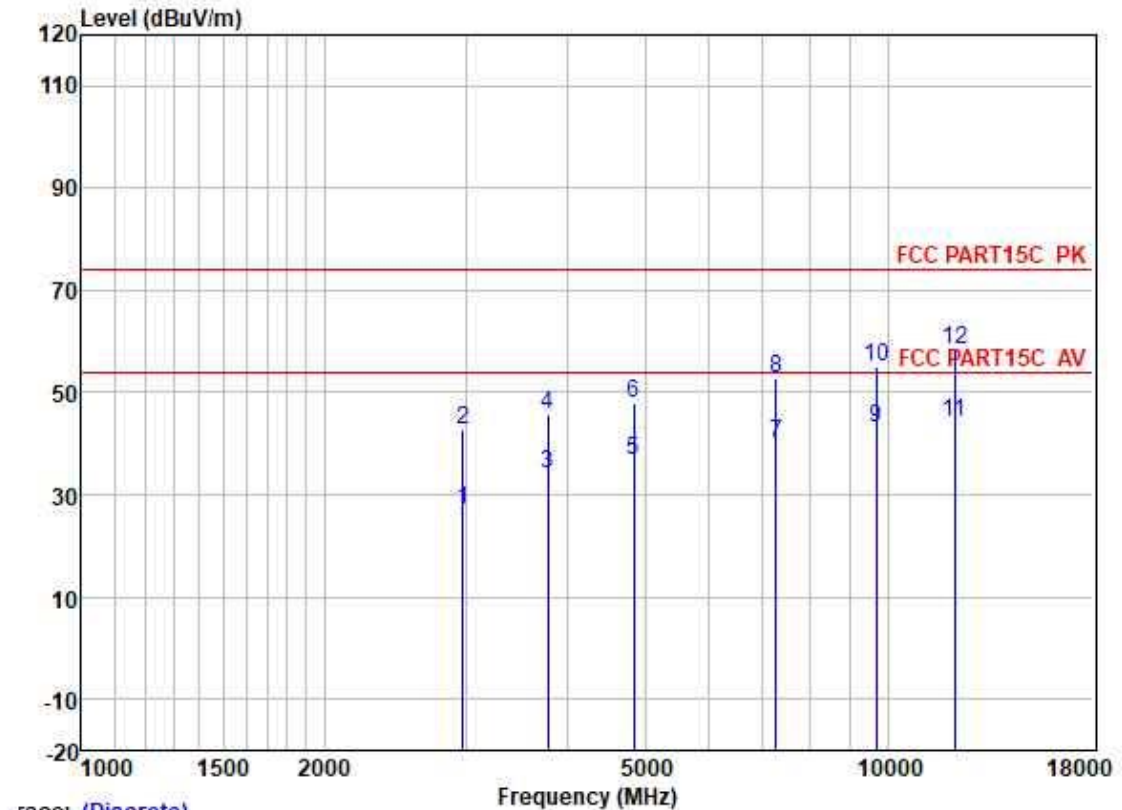
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	43.69	27.87	4.67	37.09	39.14	54.00	-14.86	VERTICAL Average
2	2973.293	52.00	27.87	4.67	37.09	47.45	74.00	-26.55	VERTICAL Peak
3	3924.135	35.27	29.35	7.47	36.91	35.18	54.00	-18.82	VERTICAL Average
4	3924.135	45.91	29.35	7.47	36.91	45.82	74.00	-28.18	VERTICAL Peak
5	4924.058	39.87	31.01	7.49	36.95	41.42	54.00	-12.58	VERTICAL Average
6	4924.058	50.06	31.01	7.49	36.95	51.61	74.00	-22.39	VERTICAL Peak
7	7386.833	34.71	35.85	7.42	36.92	41.06	54.00	-12.94	VERTICAL Average
8	7386.833	46.12	35.85	7.42	36.92	52.47	74.00	-21.53	VERTICAL Peak
9	9848.603	34.20	37.82	8.46	37.09	43.39	54.00	-10.61	VERTICAL Average
10	9848.603	45.58	37.82	8.46	37.09	54.77	74.00	-19.23	VERTICAL Peak
11	12310.130	32.43	39.03	11.10	36.97	45.59	54.00	-8.41	VERTICAL Average
12	12310.130	45.10	39.03	11.10	36.97	58.26	74.00	-15.74	VERTICAL Peak



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



Trace: (Discrete)

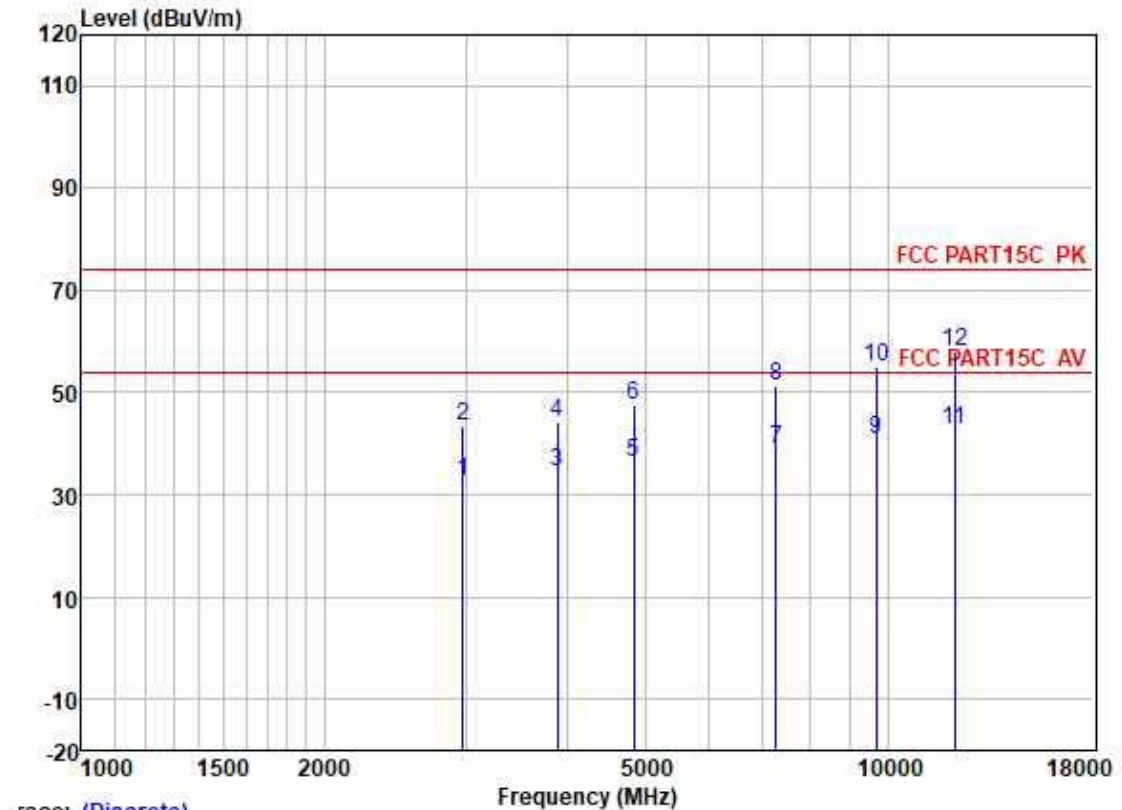
	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2973.293	31.41	27.87	4.67	37.09	26.86	54.00	-27.14	HORIZONTAL Average
2	2973.293	47.13	27.87	4.67	37.09	42.58	74.00	-31.42	HORIZONTAL Peak
3	3790.361	34.35	28.97	7.83	36.92	34.23	54.00	-19.77	HORIZONTAL Average
4	3790.361	45.94	28.97	7.83	36.92	45.82	74.00	-28.18	HORIZONTAL Peak
5	4844.948	36.58	30.88	6.31	36.94	36.83	54.00	-17.17	HORIZONTAL Average
6	4844.948	47.56	30.88	6.31	36.94	47.81	74.00	-26.19	HORIZONTAL Peak
7	7266.006	34.06	35.60	7.36	36.92	40.10	54.00	-13.90	HORIZONTAL Average
8	7266.006	46.84	35.60	7.36	36.92	52.88	74.00	-21.12	HORIZONTAL Peak
9	9688.717	34.42	37.61	8.25	37.08	43.20	54.00	-10.80	HORIZONTAL Average
10	9688.717	46.43	37.61	8.25	37.08	55.21	74.00	-18.79	HORIZONTAL Peak
11	12110.620	31.09	39.37	10.82	37.12	44.16	54.00	-9.84	HORIZONTAL Average
12	12110.620	45.35	39.37	10.82	37.12	58.42	74.00	-15.58	HORIZONTAL Peak



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



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	2973.293	37.37	27.87	4.67	37.09	32.82	54.00	-21.18	VERTICAL Average
2	2973.293	47.86	27.87	4.67	37.09	43.31	74.00	-30.69	VERTICAL Peak
3	3890.255	34.37	29.27	7.61	36.91	34.34	54.00	-19.66	VERTICAL Average
4	3890.255	44.27	29.27	7.61	36.91	44.24	74.00	-29.76	VERTICAL Peak
5	4844.948	35.97	30.88	6.31	36.94	36.22	54.00	-17.78	VERTICAL Average
6	4844.948	47.34	30.88	6.31	36.94	47.59	74.00	-26.41	VERTICAL Peak
7	7266.309	33.03	35.60	7.36	36.92	39.07	54.00	-14.93	VERTICAL Average
8	7266.309	45.27	35.60	7.36	36.92	51.31	74.00	-22.69	VERTICAL Peak
9	9688.430	32.06	37.61	8.25	37.08	40.84	54.00	-13.16	VERTICAL Average
10	9688.430	46.21	37.61	8.25	37.08	54.99	74.00	-19.01	VERTICAL Peak
11	12110.270	29.52	39.37	10.82	37.15	42.56	54.00	-11.44	VERTICAL Average
12	12110.270	44.96	39.37	10.82	37.15	58.00	74.00	-16.00	VERTICAL Peak



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