



## TEST REPORT

**Application No.:** GZCR2208001095AT  
**Applicant:** SZ DJI TECHNOLOGY CO., LTD.  
**Address of Applicant:** 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18  
Gaoxin South 4th Ave, Nanshan District, Shenzhen, Guangdong, China  
**Manufacturer:** SZ DJI TECHNOLOGY CO., LTD.  
**Address of Manufacturer:** 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18  
Gaoxin South 4th Ave, Nanshan District, Shenzhen, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** DJI Mavic 3 Classic  
**Model No.:** L2C  
**Trade Mark:** DJI  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2022-08-29  
**Date of Test:** 2022-08-30 to 2022-09-05  
**Date of Issue:** 2022-09-07

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

Kobe Jian  
EMC Laboratory Manager



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Revision Record			
Version	Report No.	Date	Remark
01		2022-09-07	Original

Authorized for issue by			
			
		Curry Wu/Project Engineer	
			
		Ricky Liu/Reviewer	

## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass
Duty Cycle		ANSI C63.10 (2013) Section 12.2	KDB 789033 D02 v02r01 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions (above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Radiated Emissions (below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass

### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## 4 General Information

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

Power supply:	Input: DC 15.4V DC 15.4V 5000mAh, 77Wh Lithium-ion rechargeable battery (to be charged from USB port), Model: BWX260-5000-15.4
Operation Frequency (10MHz):	10MHz BW: 5157MHz-5245MHz 20MHz BW: 5161MHz-5240MHz 40MHz BW: 5170MHz-5230MHz 10MHz BW: 89
Number of Channels:	20MHz BW: 80 40MHz BW: 61
Modulation Type:	OFDM 10MHz BW: 1MHz;
Channel Spacing:	20MHz BW: 1MHz; 40MHz BW: 1MHz
DFS Function:	Without DFS function
TPC Function:	Without TPC function
Antenna Type:	FPC Antenna
Antenna Gain:	Antenna 0&3: 3dBi, Antenna 1&2: 1.0dBi
Antenna Combination:	Antenna 0+Antenna 1, Antenna 0+Antenna 3, Antenna 1+Antenna 2, Antenna 2+Antenna 3

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC Adapter	DJI	PD-65US	N/A



### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m); ± 5.12dB (1GHz-6GHz); ± 5.38dB (6GHz-18GHz); ± 5.61dB (18GHz-40GHz)
Radiated Emissions (above 1GHz)	± 5.12dB (1GHz-6GHz); ± 5.38dB (6GHz-18GHz); ± 5.61dB (18GHz- 40GHz)
Radiated Emissions (below 1GHz)	±5.00dB (30MHz-1GHz; 3m); ±4.38dB (30MHz-1GHz; 10m);
Frequency Stability	± 7.25 x 10-8
<p>Remark:</p> <p>The <math>U_{lab}</math> (lab Uncertainty) is less than <math>U_{CISPR}</math> (CISPR Uncertainty), so the test results</p> <ul style="list-style-type: none"> <li>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;</li> <li>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.</li> </ul>	

#### 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.

#### 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/New Zealand Regulatory Compliance Mark (RCM).

- **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 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.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

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

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

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

- **CBTL (Lab Code: TL129)**

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



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#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Conducted Emissions at 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	2021-12-23	2022-12-22
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-03	2023-03-02
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-03	2023-03-02
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2022-06-21	2023-06-20
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2022-05-16	2023-05-15
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2022-05-16	2023-05-15
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

99% Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-03	2023-03-02
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-03	2023-03-02
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2022-06-21	2023-06-20



Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2022-05-16	2023-05-15
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2022-05-16	2023-05-15
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

**26dB Emission bandwidth**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-03	2023-03-02
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-03	2023-03-02
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2022-06-21	2023-06-20
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2022-05-16	2023-05-15
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2022-05-16	2023-05-15
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

**Maximum Conducted output power**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-03	2023-03-02
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-03	2023-03-02
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2022-06-21	2023-06-20
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2022-05-16	2023-05-15



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Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2022-05-16	2023-05-15
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Peak Power spectrum density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-03	2023-03-02
ESG Vector Signal Generator(250kHz- 6GHz)	Keysight	E4438C	SEM006-03	2022-03-03	2023-03-02
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2022-06-21	2023-06-20
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2022-05-16	2023-05-15
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2022-05-16	2023-05-15
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz- 26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31



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EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2022-07-28	2023-07-27
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2022-08-29	2023-08-28

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2022-07-28	2023-07-27
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2022-08-29	2023-08-28



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Radiated Emissions (below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2022-02-22	2025-02-21
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19

Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2022-06-21	2023-06-20
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2022-03-29	2023-03-28
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2022-10-31
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-01	2022-10-31
Test Software	TST	V2.0	GZE100-78	N/A	N/A
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2022-07-03	2023-07-02

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23
DMM	Fluke	73	EMC0007	2022-06-24	2023-06-23



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

15.203 Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna 0&3: 3dBi, Antenna 1&2: 1.0dBi

Directional gain (combination antenna0+3)=  $10\log [(10^{G1/20} + 10^{G2/20})^2/N_{ANT}] = 10\log [(10^{3.00/20} + 10^{2.50/20})^2/2] = 6.01\text{dBi}$

Antenna location: Refer to internal photo.

## 6.2 Transmission in the Absence of Data

### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

### 6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

RF chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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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 & 15.407 b(6)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

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

\*Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

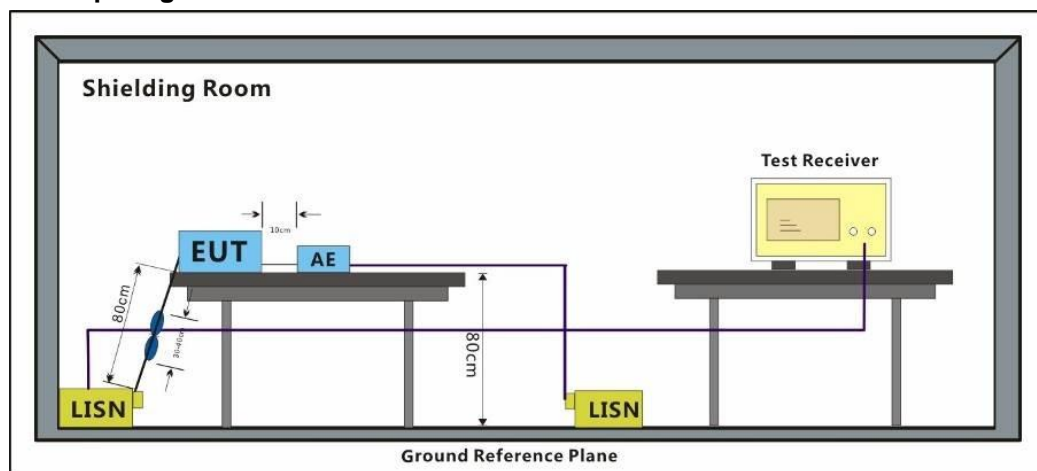
Humidity: 53.1 % RH

Atmospheric Pressure: 1003 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	39	Charge + TX mode(10MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Pre-scan	40	Charge + TX mode(20MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Pre-scan	41	Charge + TX mode(40MHz)_Keep the EUT in charging and continuously transmitting mode with modulation

#### 7.1.3 Test Setup Diagram

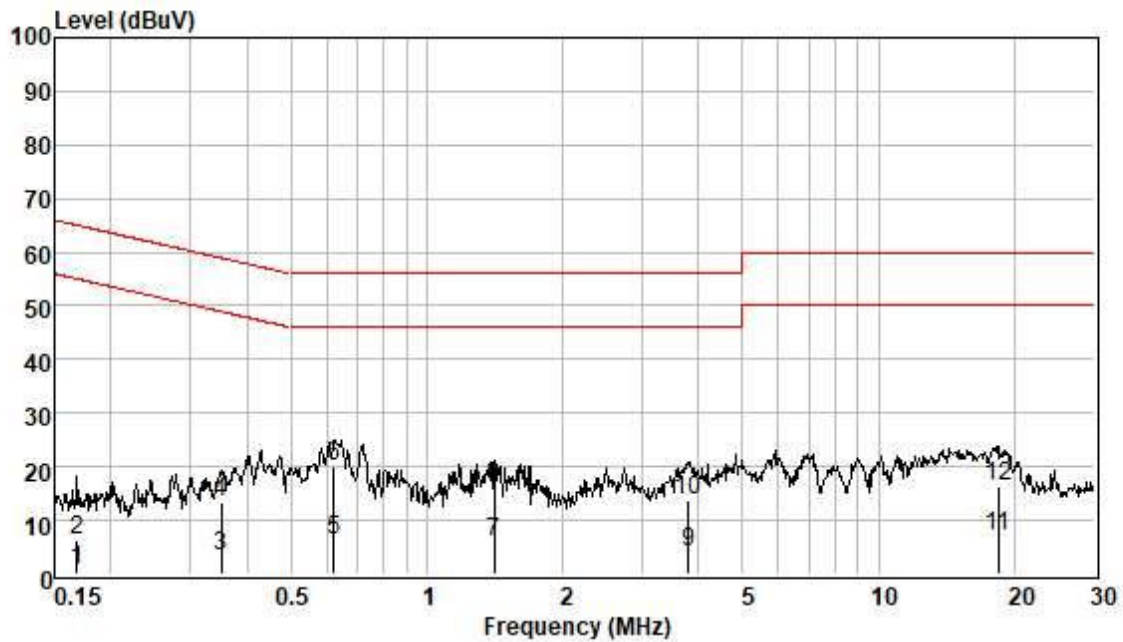


#### 7.1.4 Measurement Procedure and Data

- 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

Test Mode: 39; Line: Live line

Pol : LINE  
Mode :  
Model :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.169	-8.79	0.06	9.55	0.82	55.03	-54.21	Average
2	0.169	-3.19	0.06	9.55	6.42	65.03	-58.61	QP
3	0.350	-6.45	0.06	9.58	3.19	48.96	-45.77	Average
4	0.350	3.57	0.06	9.58	13.21	58.96	-45.75	QP
5	0.624	-3.36	0.07	9.59	6.30	46.00	-39.70	Average
6	0.624	10.31	0.07	9.59	19.97	56.00	-36.03	QP
7	1.411	-3.74	0.09	9.60	5.95	46.00	-40.05	Average
8	1.411	6.80	0.09	9.60	16.49	56.00	-39.51	QP
9	3.799	-5.68	0.16	9.63	4.11	46.00	-41.89	Average
10	3.799	3.95	0.16	9.63	13.74	56.00	-42.26	QP
11	18.426	-2.97	0.35	9.84	7.22	50.00	-42.78	Average
12	18.426	6.24	0.35	9.84	16.43	60.00	-43.57	QP

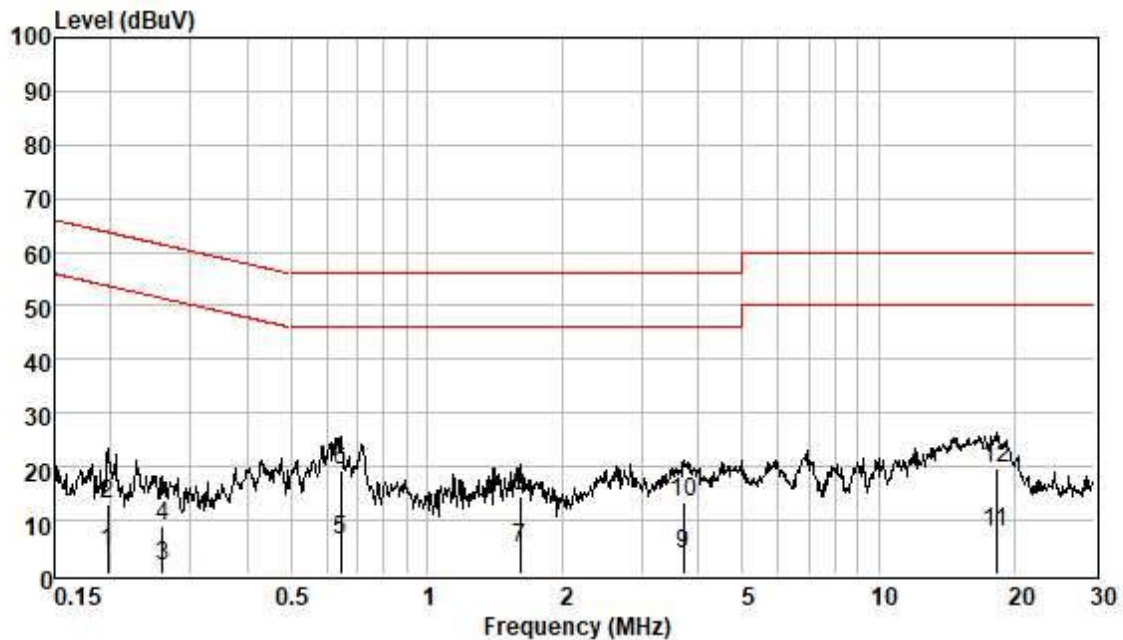


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Test Mode: 39; Line: Neutral Line

Pol : NEUTRAL  
Mode :  
Model :

	Frequeunc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.197	-5.56	0.06	9.55	4.05	53.76	-49.71	Average
2	0.197	3.33	0.06	9.55	12.94	63.76	-50.82	QP
3	0.260	-8.10	0.06	9.56	1.52	51.42	-49.90	Average
4	0.260	-0.87	0.06	9.56	8.75	61.42	-52.67	QP
5	0.644	-3.32	0.07	9.58	6.33	46.00	-39.67	Average
6	0.644	9.78	0.07	9.58	19.43	56.00	-36.57	QP
7	1.610	-4.76	0.10	9.59	4.93	46.00	-41.07	Average
8	1.610	4.95	0.10	9.59	14.64	56.00	-41.36	QP
9	3.700	-5.93	0.16	9.62	3.85	46.00	-42.15	Average
10	3.700	3.73	0.16	9.62	13.51	56.00	-42.49	QP
11	18.232	-2.56	0.35	9.89	7.68	50.00	-42.32	Average
12	18.232	9.52	0.35	9.89	19.76	60.00	-40.24	QP



## 7.2 Duty Cycle

Test Requirement

KDB 789033 D02 v02r01 II B 1

Test Method:

ANSI C63.10 (2013) Section 12.2

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

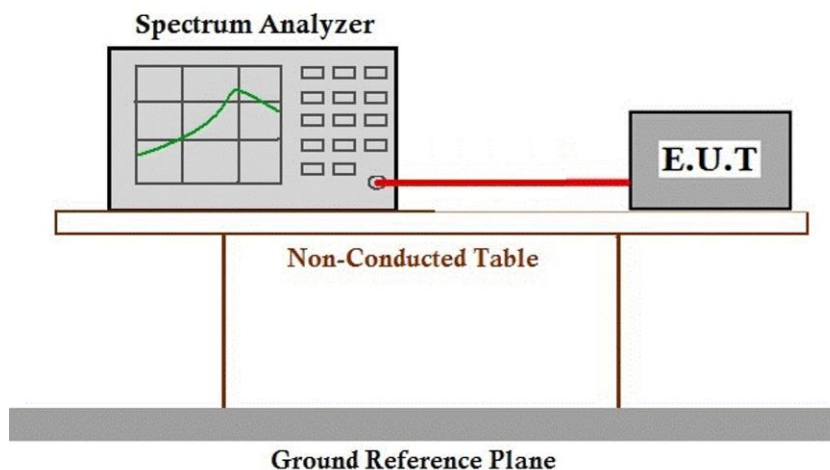
Humidity: 52.3 % RH

Atmospheric Pressure: 1003 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	36	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	37	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	38	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation

### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

### 7.3 99% Bandwidth

Test Requirement N/A  
Test Method: KDB 789033 II D

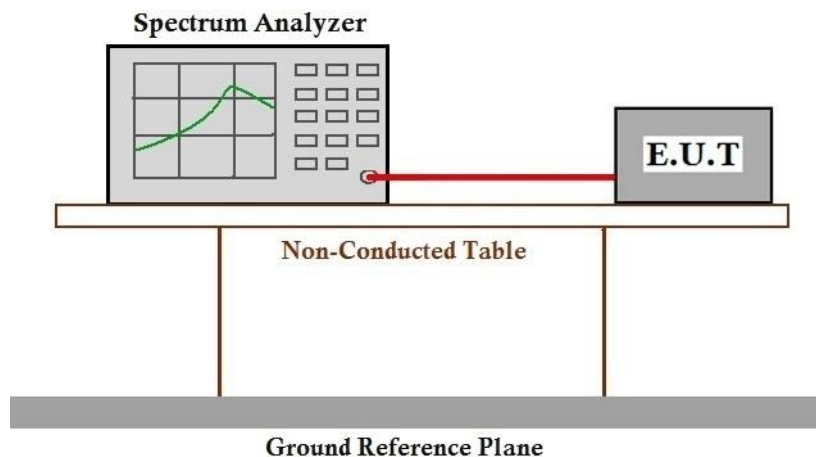
#### 7.3.1 E.U.T. Operation

Operating Environment:  
Temperature: 21.8 °C Humidity: 52.3 % RH Atmospheric Pressure: 1003 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	36	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	37	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	38	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)  
Test Method: KDB 789033 D02 II C 1

### 7.4.1 E.U.T. Operation

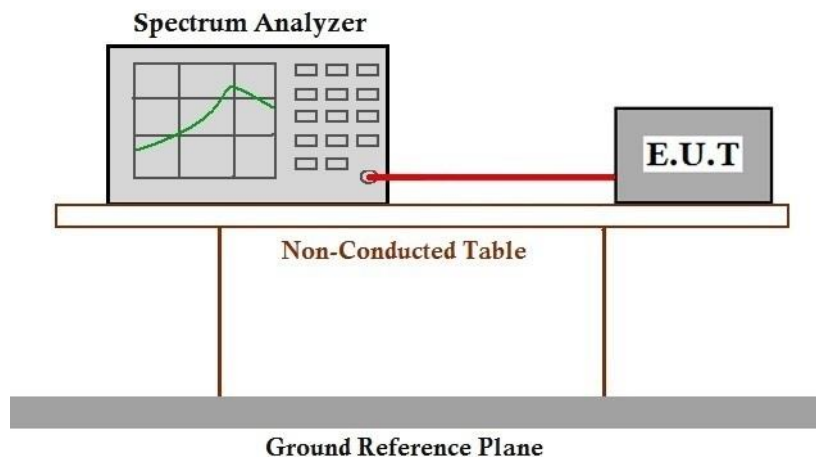
Operating Environment:

Temperature: 21.8 °C Humidity: 52.3 % RH Atmospheric Pressure: 1003 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	36	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	37	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	38	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation

### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.5 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 52.3 % RH Atmospheric Pressure: 1003 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	36	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	37	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	38	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation

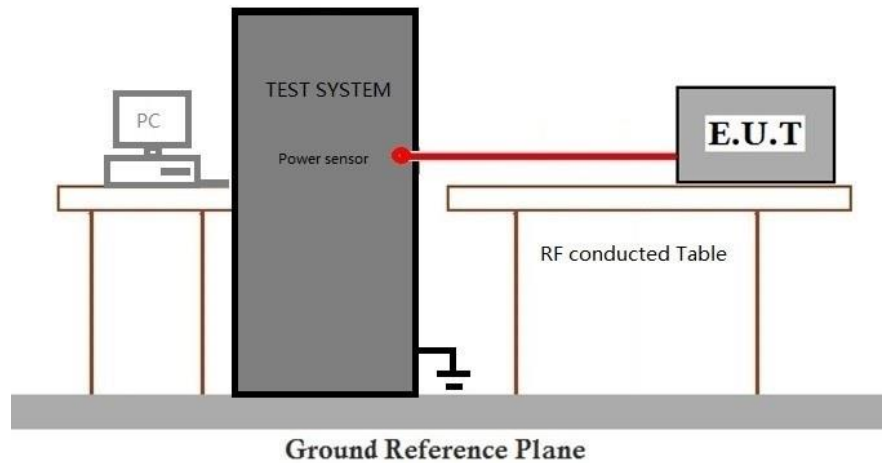


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### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.6 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

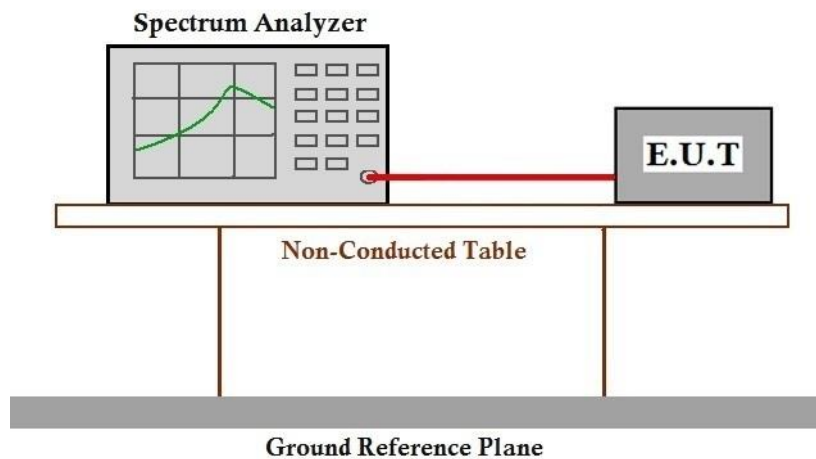
Humidity: 52.3 % RH

Atmospheric Pressure: 1003 mbar

### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	36	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	37	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	38	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation

### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

**7.7 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.209 &amp; 15.407(b)

Test Method: KDB 789033 D02 II G

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

\*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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.



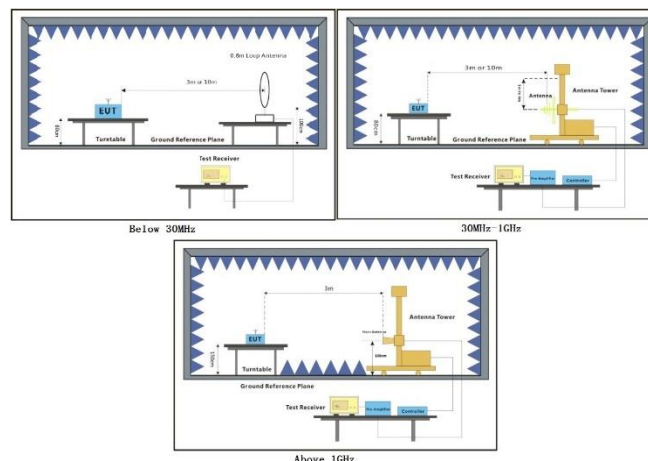
**7.7.1 E.U.T. Operation**

Operating Environment:

Temperature: 21.5 °C Humidity: 52.2 % RH Atmospheric Pressure: 1003 mbar

**7.7.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Pre-scan	36	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	37	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	38	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	39	Charge + TX mode(10MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Final test	40	Charge + TX mode(20MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Final test	41	Charge + TX mode(40MHz)_Keep the EUT in charging and continuously transmitting mode with modulation

**7.7.3 Test Setup Diagram**

#### 7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For 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.

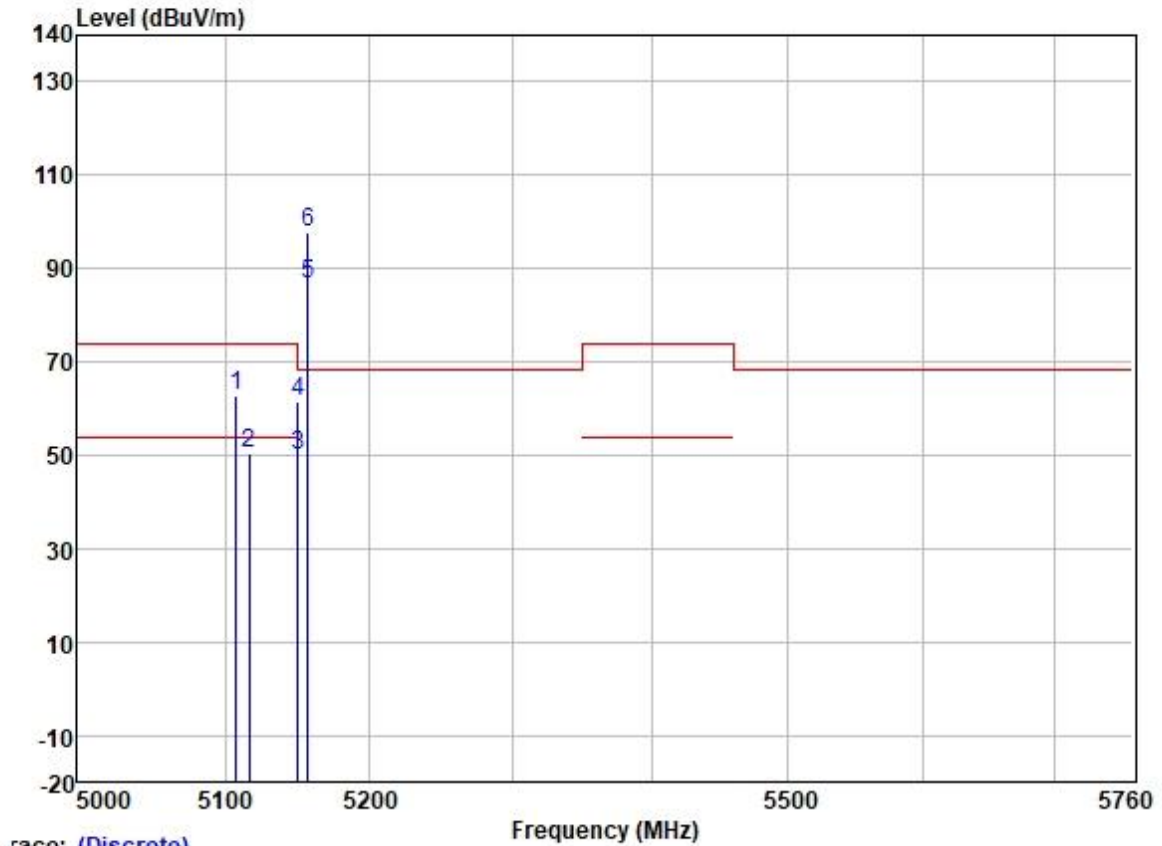
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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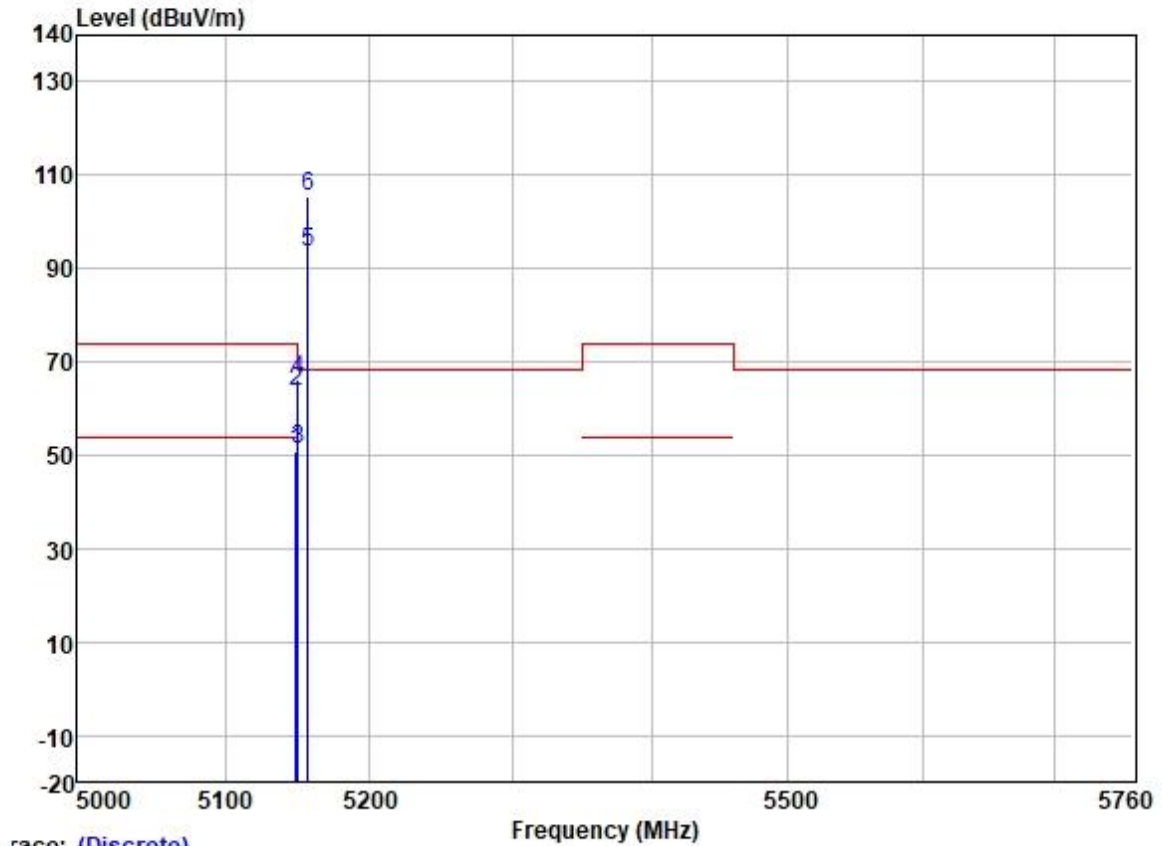
Test Mode: 39; Polarity: Horizontal; Modulation: OFDM; Channel: Low



race: (Discrete)

	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	5107.723	62.42	31.72	5.65	36.86	62.93	74.00	-11.07	HORIZONTAL Peak
2	5116.434	49.74	31.72	5.64	36.86	50.24	54.00	-3.76	HORIZONTAL Average
3	5149.980	49.29	31.72	5.62	36.86	49.77	54.00	-4.23	HORIZONTAL Average
4	5149.980	61.13	31.72	5.62	36.86	61.61	74.00	-12.39	HORIZONTAL Peak
5	5157.000	86.21	31.73	5.61	36.86	86.69	-----	-----	HORIZONTAL Average
6 *	5157.000	97.09	31.73	5.61	36.86	97.57	68.20	29.37	HORIZONTAL Peak

Test Mode: 39; Polarity: Vertical; Modulation: OFDM; Channel: Low

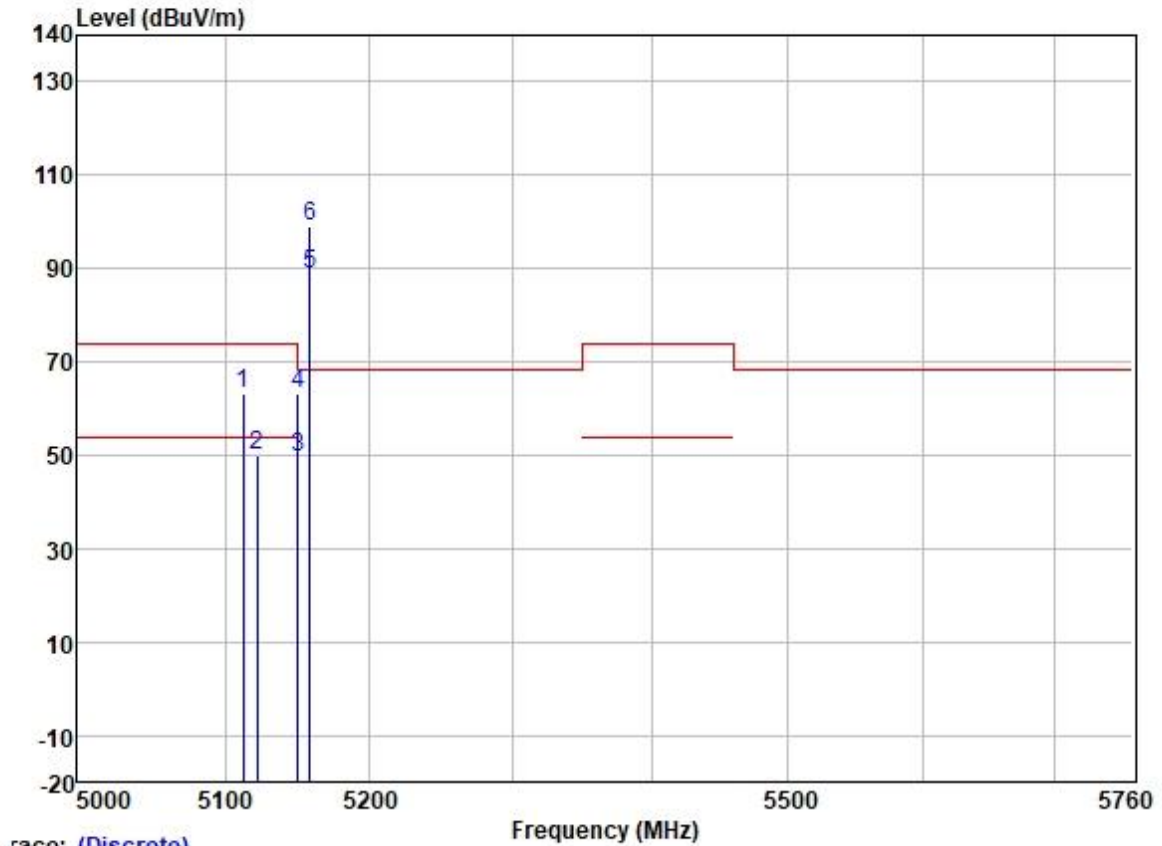


race: (Discrete)

	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	5148.970	50.27	31.72	5.62	36.86	50.75	54.00	-3.25	VERTICAL
2	5149.461	62.99	31.72	5.62	36.86	63.47	74.00	-10.53	VERTICAL
3	5149.980	50.60	31.72	5.62	36.86	51.08	54.00	-2.92	VERTICAL
4	5149.980	65.79	31.72	5.62	36.86	66.27	74.00	-7.73	VERTICAL
5	5157.000	93.17	31.73	5.61	36.86	93.65	-----	-----	VERTICAL
6 *	5157.000	104.83	31.73	5.61	36.86	105.31	68.20	37.11	VERTICAL

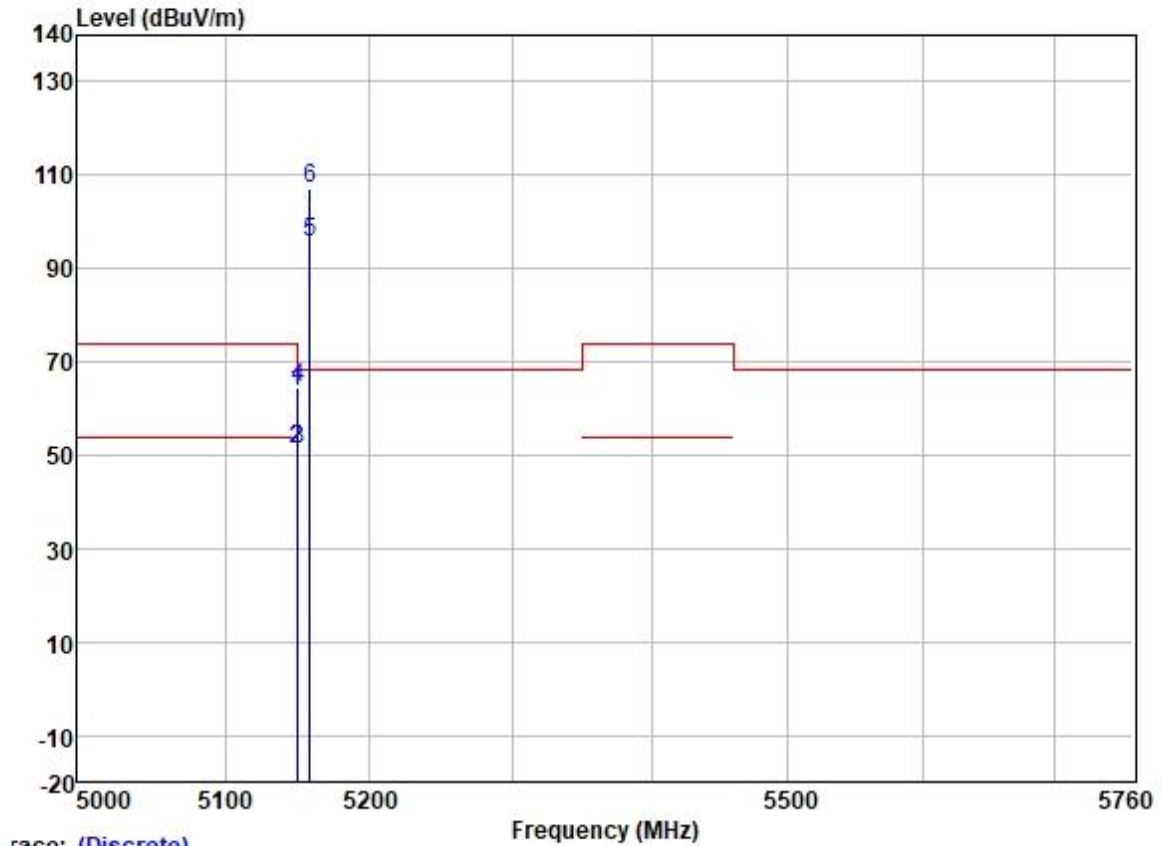


Test Mode: 39; Polarity: Horizontal; Modulation: OFDM; Channel: Low+1



	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	5112.390	62.49	31.72	5.64	36.86	62.99	74.00	-11.01	HORIZONTAL Peak
2	5122.157	49.64	31.72	5.64	36.86	50.14	54.00	-3.86	HORIZONTAL Average
3	5149.980	49.27	31.72	5.62	36.86	49.75	54.00	-4.25	HORIZONTAL Average
4	5149.980	62.70	31.72	5.62	36.86	63.18	74.00	-10.82	HORIZONTAL Peak
5	5158.000	88.24	31.73	5.61	36.86	88.72	-----	-----	HORIZONTAL Average
6 *	5158.000	98.73	31.73	5.61	36.86	99.21	68.20	31.01	HORIZONTAL Peak

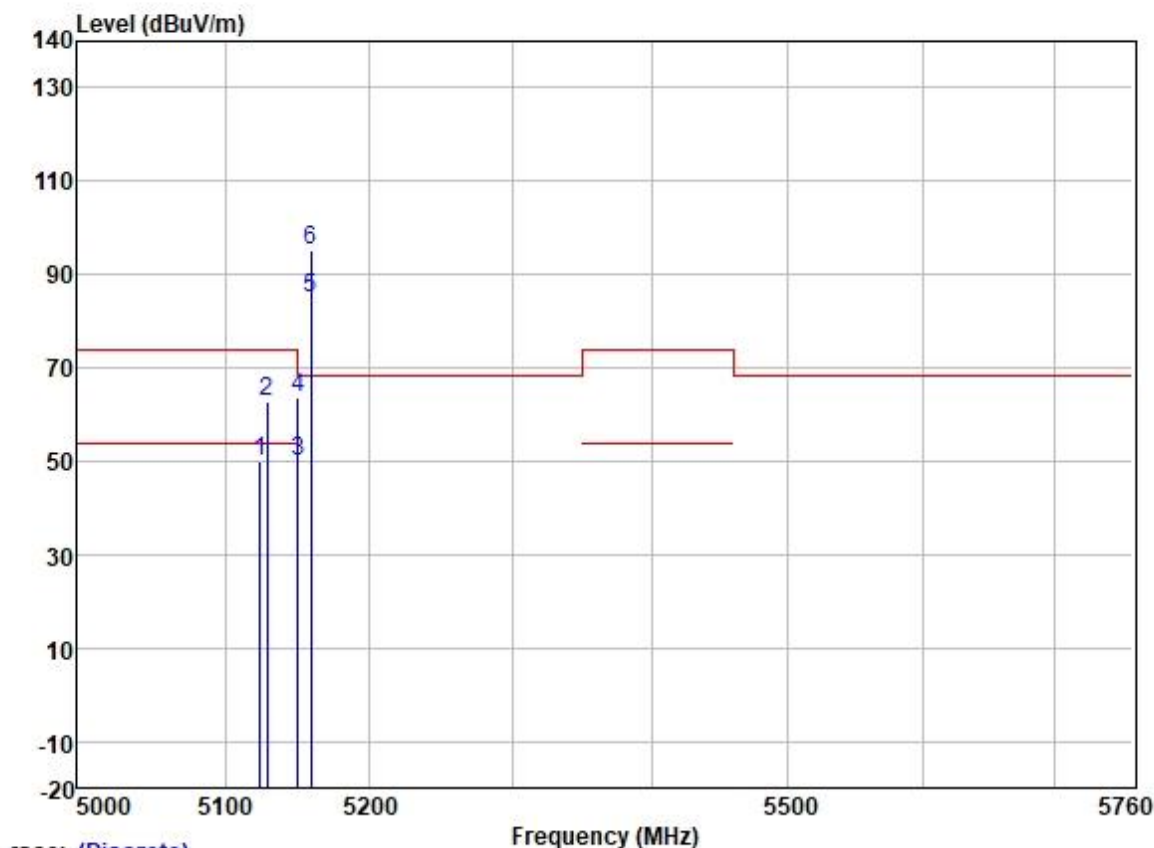
Test Mode: 39; Polarity: Vertical; Modulation: OFDM; Channel: Low+1



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5149.181	63.22	31.72	5.62	36.86	63.70	74.00	-10.30	VERTICAL	Peak
2	5149.461	50.67	31.72	5.62	36.86	51.15	54.00	-2.85	VERTICAL	Average
3	5149.980	50.71	31.72	5.62	36.86	51.19	54.00	-2.81	VERTICAL	Average
4	5149.980	63.89	31.72	5.62	36.86	64.37	74.00	-9.63	VERTICAL	Peak
5	5158.000	95.11	31.73	5.61	36.86	95.59	-----	-----	VERTICAL	Average
6 *	5158.000	106.81	31.73	5.61	36.86	107.29	68.20	39.09	VERTICAL	Peak

Test Mode: 39; Polarity: Horizontal; Modulation: OFDM; Channel: Low+2

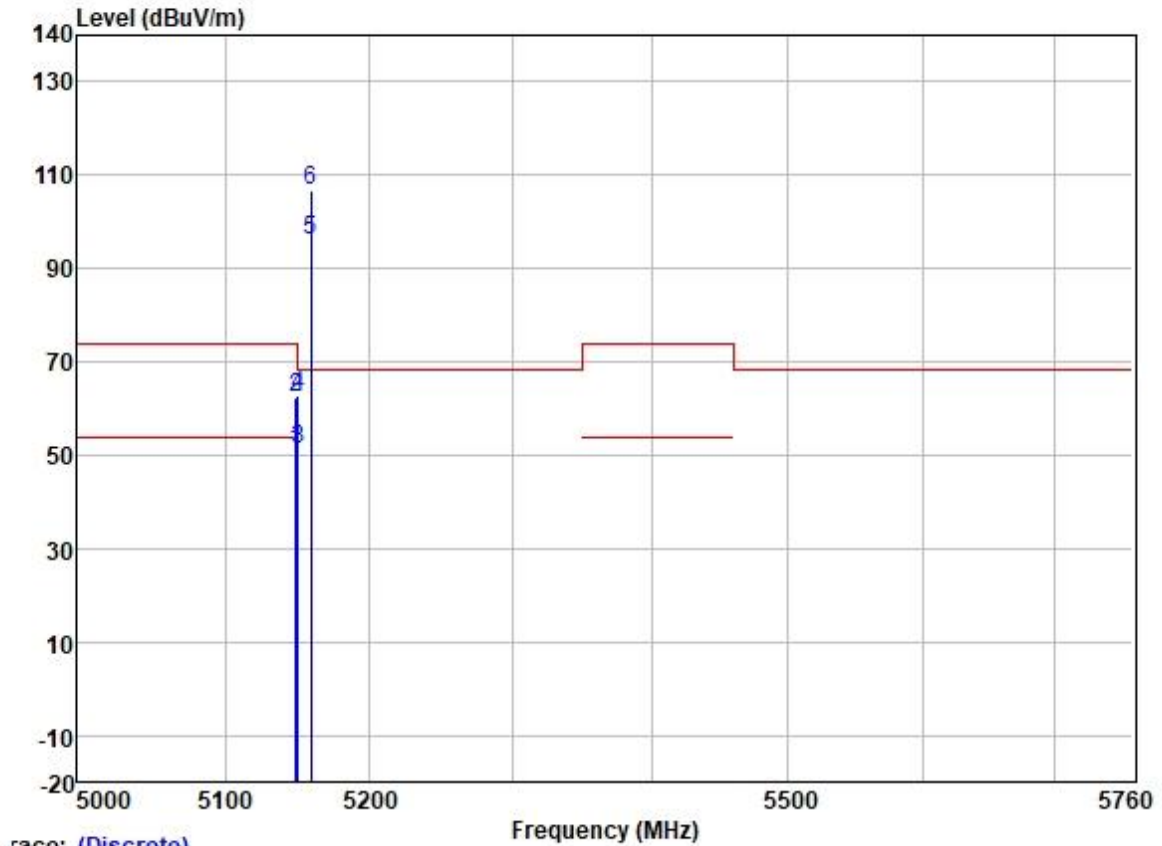


Trace: (Discrete)

	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	5123.923	49.37	31.72	5.64	36.86	49.87	54.00	-4.13	HORIZONTAL Average
2	5128.501	62.32	31.72	5.63	36.86	62.81	74.00	-11.19	HORIZONTAL Peak
3	5149.980	49.36	31.72	5.62	36.86	49.84	54.00	-4.16	HORIZONTAL Average
4	5149.980	62.94	31.72	5.62	36.86	63.42	74.00	-10.58	HORIZONTAL Peak
5	5159.000	84.40	31.73	5.61	36.86	84.88	-----	-----	HORIZONTAL Average
6 *	5159.000	94.81	31.73	5.61	36.86	95.29	68.20	27.09	HORIZONTAL Peak



Test Mode: 39; Polarity: Vertical; Modulation: OFDM; Channel: Low+2

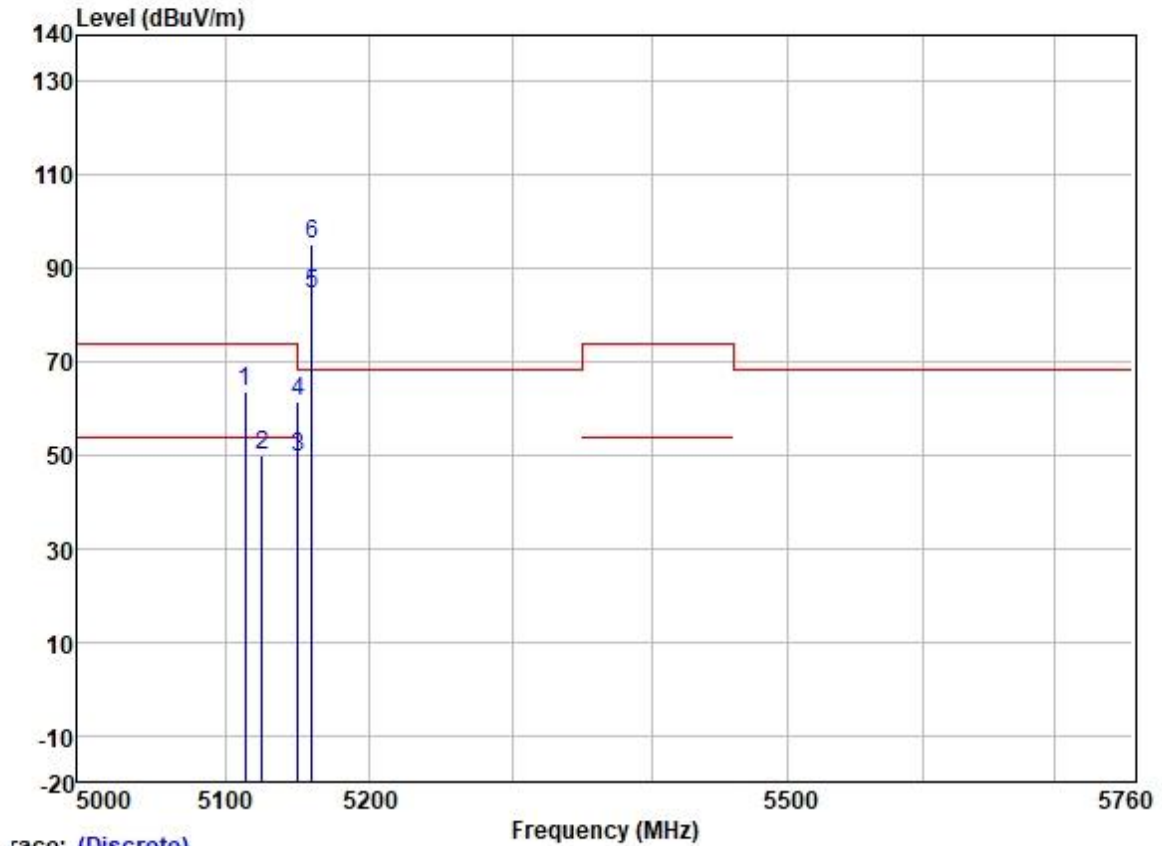


race: (Discrete)

	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	5148.857	50.14	31.72	5.62	36.86	50.62	54.00	-3.38	VERTICAL
2	5148.857	62.06	31.72	5.62	36.86	62.54	74.00	-11.46	VERTICAL
3	5149.980	50.56	31.72	5.62	36.86	51.04	54.00	-2.96	VERTICAL
4	5149.980	62.10	31.72	5.62	36.86	62.58	74.00	-11.42	VERTICAL
5	5159.000	95.43	31.73	5.61	36.86	95.91	-----	-----	VERTICAL
6 *	5159.000	106.30	31.73	5.61	36.86	106.78	68.20	38.58	VERTICAL



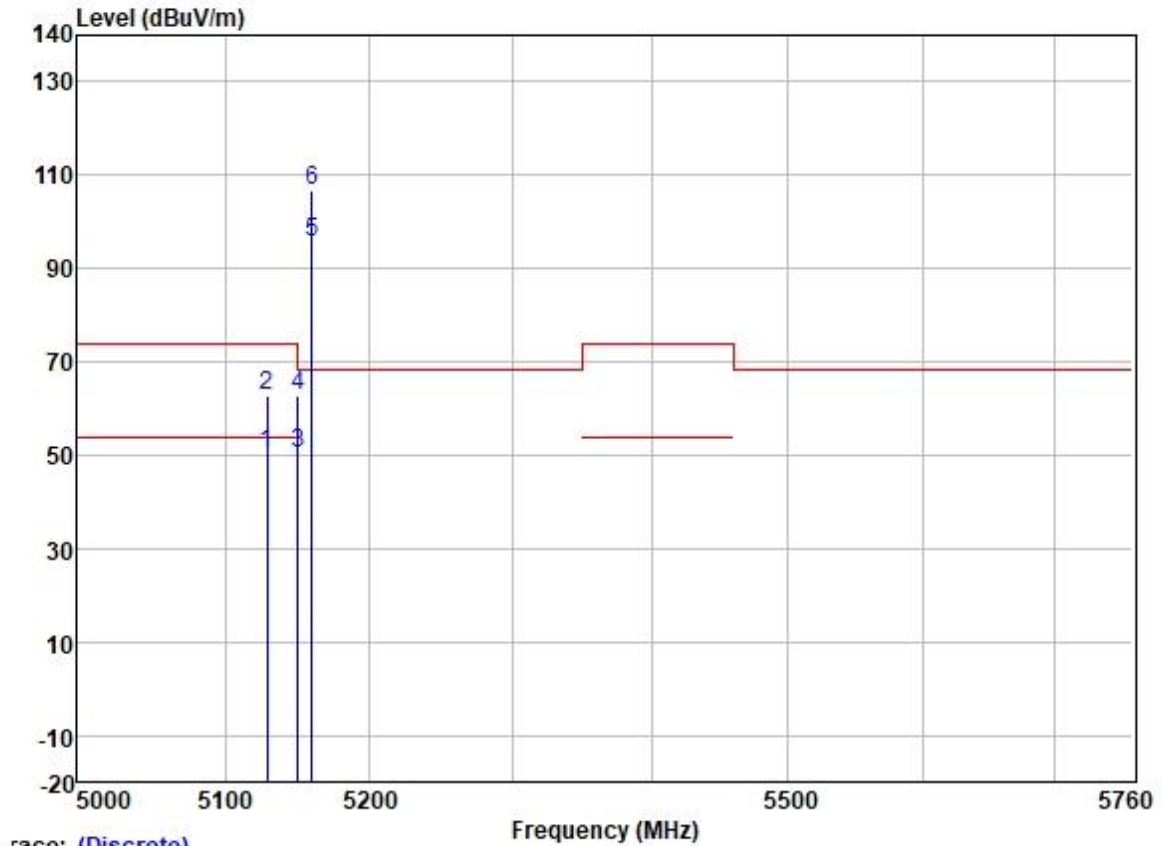
Test Mode: 39; Polarity: Horizontal; Modulation: OFDM; Channel: Low+3



race: (Discrete)

	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	5113.983	63.19	31.72	5.64	36.86	63.69	74.00	-10.31	HORIZONTAL Peak
2	5125.117	49.27	31.72	5.64	36.86	49.77	54.00	-4.23	HORIZONTAL Average
3	5149.980	49.11	31.72	5.62	36.86	49.59	54.00	-4.41	HORIZONTAL Average
4	5149.980	61.16	31.72	5.62	36.86	61.64	74.00	-12.36	HORIZONTAL Peak
5	5160.000	84.22	31.73	5.61	36.86	84.70	-----	-----	HORIZONTAL Average
6 *	5160.000	94.67	31.73	5.61	36.86	95.15	68.20	26.95	HORIZONTAL Peak

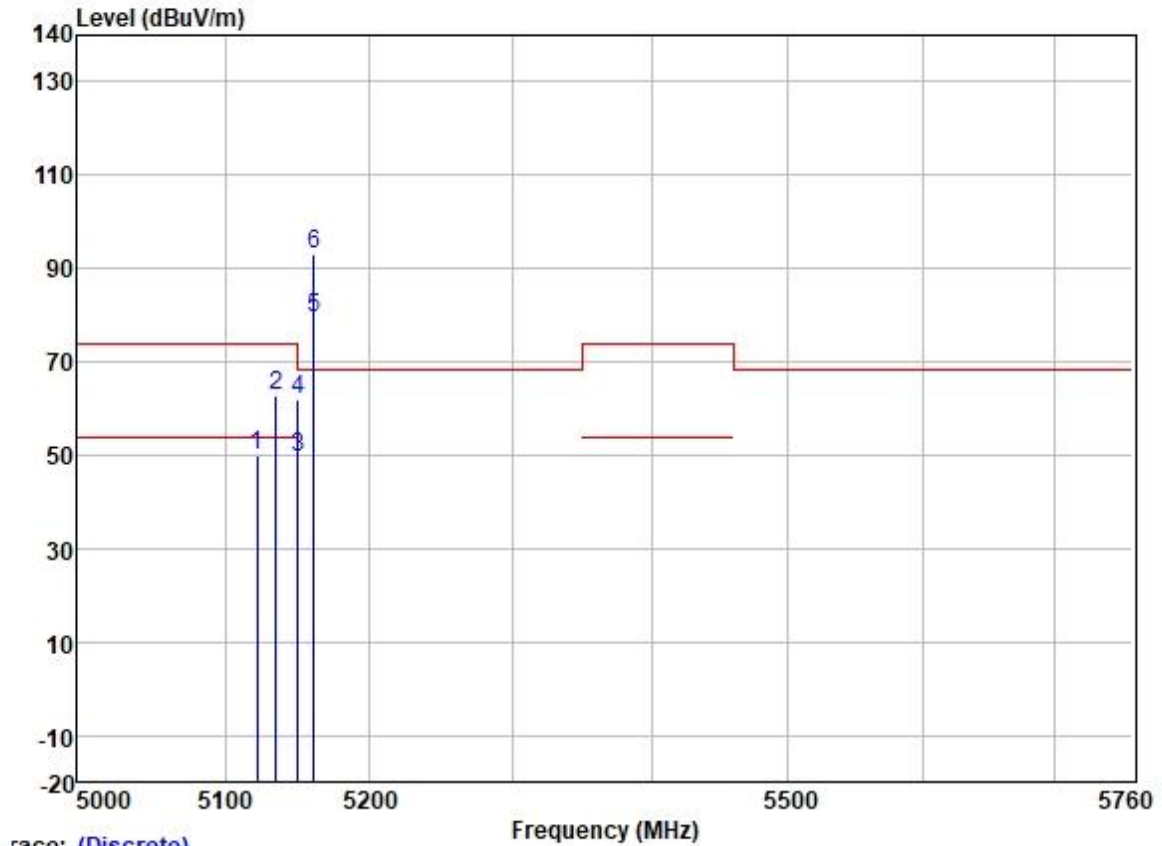
Test Mode: 39; Polarity: Vertical; Modulation: OFDM; Channel: Low+3



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5128.900	49.93	31.72	5.63	36.86	50.42	54.00	-3.58	VERTICAL
2	5128.900	62.16	31.72	5.63	36.86	62.65	74.00	-11.35	VERTICAL
3	5149.980	49.95	31.72	5.62	36.86	50.43	54.00	-3.57	VERTICAL
4	5149.980	62.33	31.72	5.62	36.86	62.81	74.00	-11.19	VERTICAL
5	5160.000	95.29	31.73	5.61	36.86	95.77	-----	-----	VERTICAL
6 *	5160.000	106.29	31.73	5.61	36.86	106.77	68.20	38.57	VERTICAL

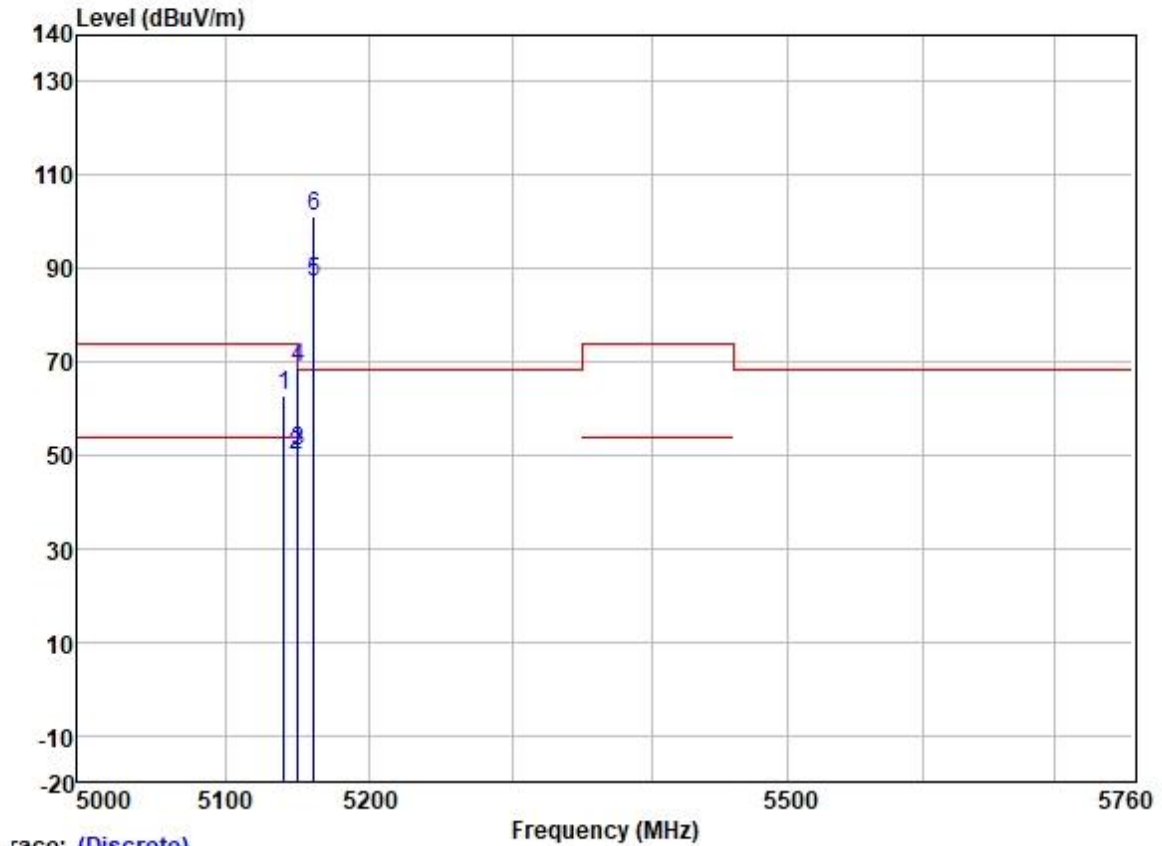
Test Mode: 40; Polarity: Horizontal; Modulation: OFDM; Channel: Low



		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	5121.734	49.54	31.72	5.64	36.86	50.04	54.00	-3.96	HORIZONTAL	Average
2	5134.979	62.24	31.72	5.63	36.86	62.73	74.00	-11.27	HORIZONTAL	Peak
3	5149.980	49.04	31.72	5.62	36.86	49.52	54.00	-4.48	HORIZONTAL	Average
4	5149.980	61.62	31.72	5.62	36.86	62.10	74.00	-11.90	HORIZONTAL	Peak
5	5161.000	78.87	31.73	5.61	36.86	79.35	-----	-----	HORIZONTAL	Average
6 *	5161.000	92.45	31.73	5.61	36.86	92.93	68.20	24.73	HORIZONTAL	Peak



Test Mode: 40; Polarity: Vertical; Modulation: OFDM; Channel: Low

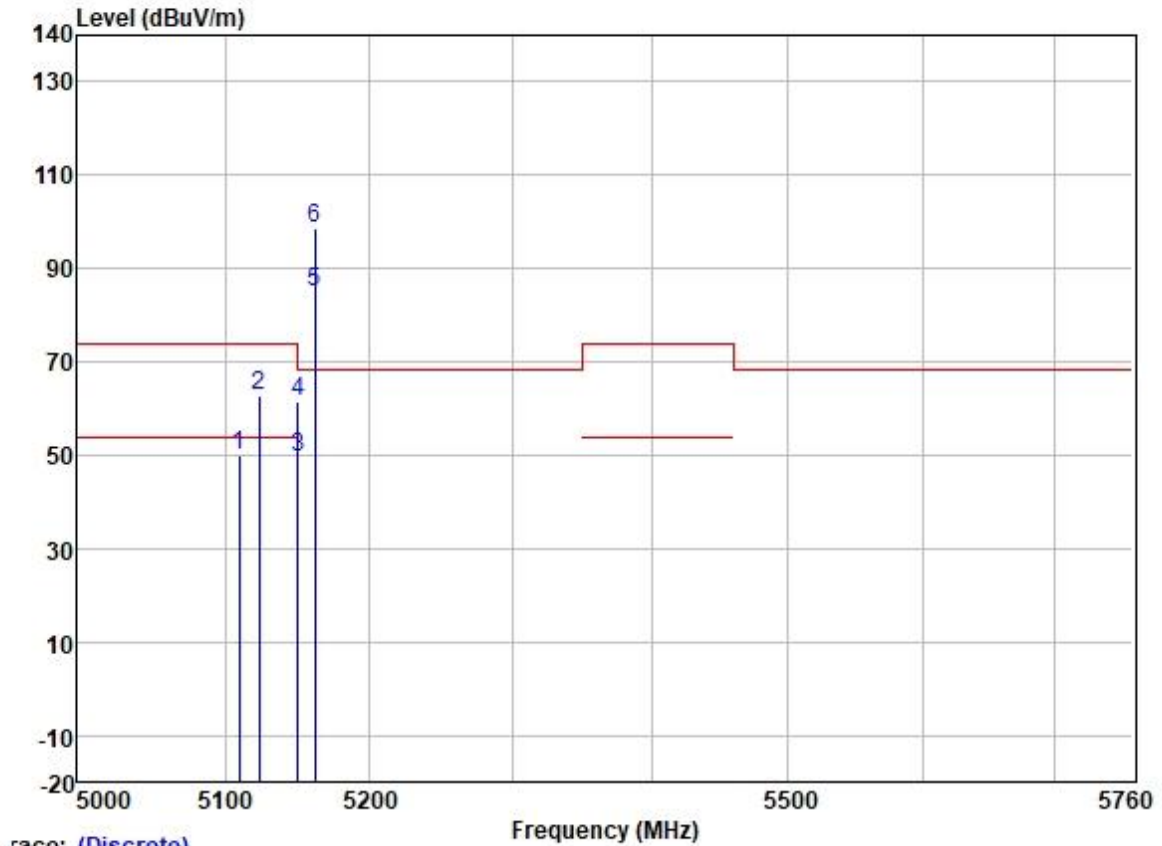


Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5140.167	62.45	31.72	5.63	36.86	62.94	74.00	-11.06	VERTICAL Peak
2	5149.257	49.47	31.72	5.62	36.86	49.95	54.00	-4.05	VERTICAL Average
3	5149.980	50.25	31.72	5.62	36.86	50.73	54.00	-3.27	VERTICAL Average
4	5149.980	68.37	31.72	5.62	36.86	68.85	74.00	-5.15	VERTICAL Peak
5	5161.000	86.78	31.73	5.61	36.86	87.26	-----	-----	VERTICAL Average
6 *	5161.000	100.52	31.73	5.61	36.86	101.00	68.20	32.80	VERTICAL Peak

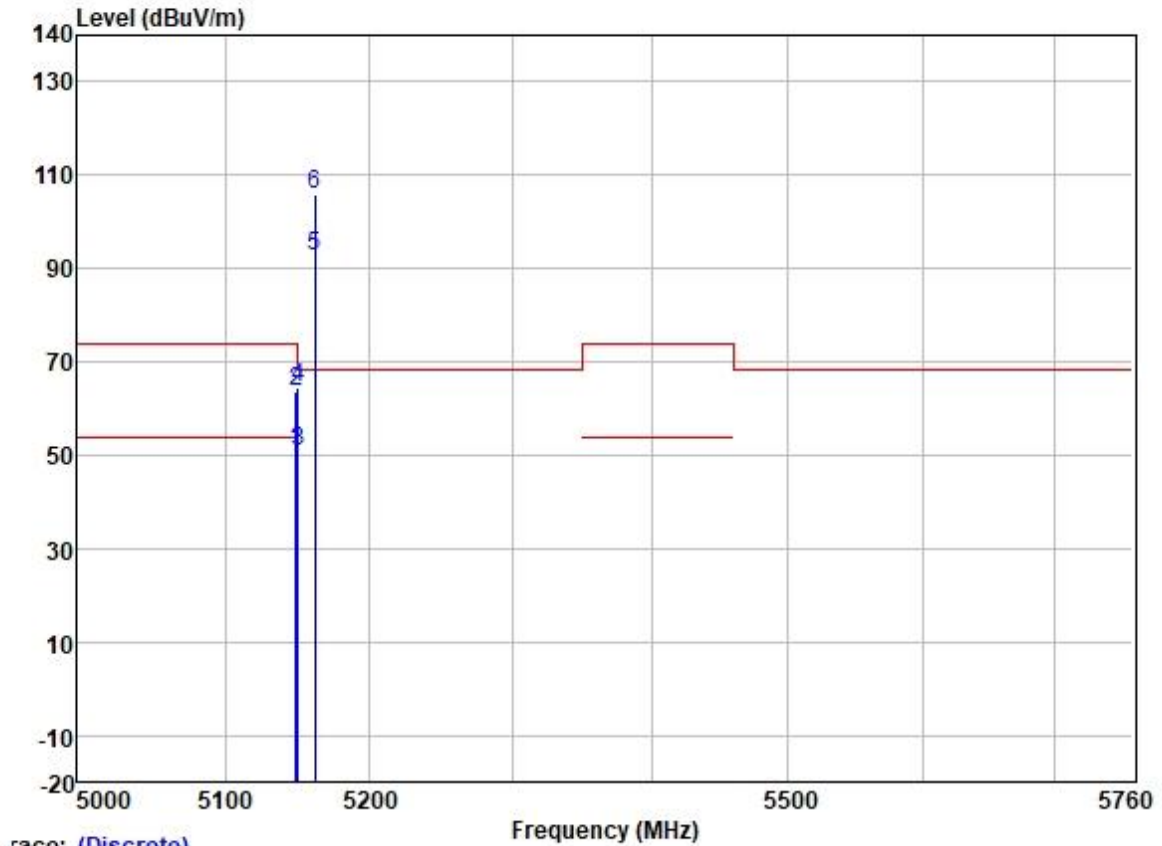


Test Mode: 40; Polarity: Horizontal; Modulation: OFDM; Channel: Low+1



	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	5109.615	49.39	31.72	5.65	36.86	49.90	54.00	-4.10	HORIZONTAL Average
2	5123.425	62.25	31.72	5.64	36.86	62.75	74.00	-11.25	HORIZONTAL Peak
3	5149.980	49.20	31.72	5.62	36.86	49.68	54.00	-4.32	HORIZONTAL Average
4	5149.980	60.82	31.72	5.62	36.86	61.30	74.00	-12.70	HORIZONTAL Peak
5	5162.000	84.37	31.73	5.61	36.86	84.85	-----	-----	HORIZONTAL Average
6 *	5162.000	98.01	31.73	5.61	36.86	98.49	68.20	30.29	HORIZONTAL Peak

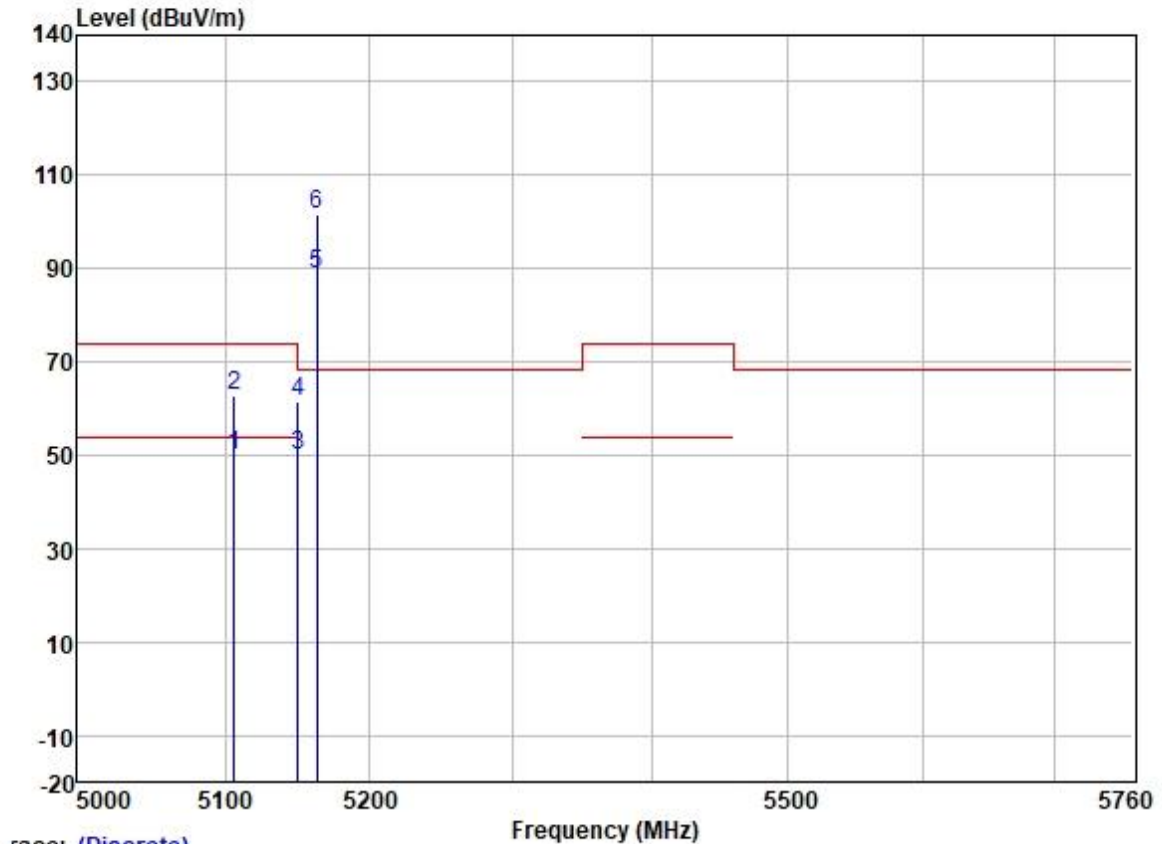
Test Mode: 40; Polarity: Vertical; Modulation: OFDM; Channel: Low+1



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5148.357	50.21	31.72	5.62	36.86	50.69	54.00	-3.31	VERTICAL	Average
2	5148.357	63.07	31.72	5.62	36.86	63.55	74.00	-10.45	VERTICAL	Peak
3	5149.980	50.40	31.72	5.62	36.86	50.88	54.00	-3.12	VERTICAL	Average
4	5149.980	63.85	31.72	5.62	36.86	64.33	74.00	-9.67	VERTICAL	Peak
5	5162.000	92.03	31.73	5.61	36.86	92.51	-----	-----	VERTICAL	Average
6 *	5162.000	105.53	31.73	5.61	36.86	106.01	68.20	37.81	VERTICAL	Peak

Test Mode: 40; Polarity: Horizontal; Modulation: OFDM; Channel: Low+2

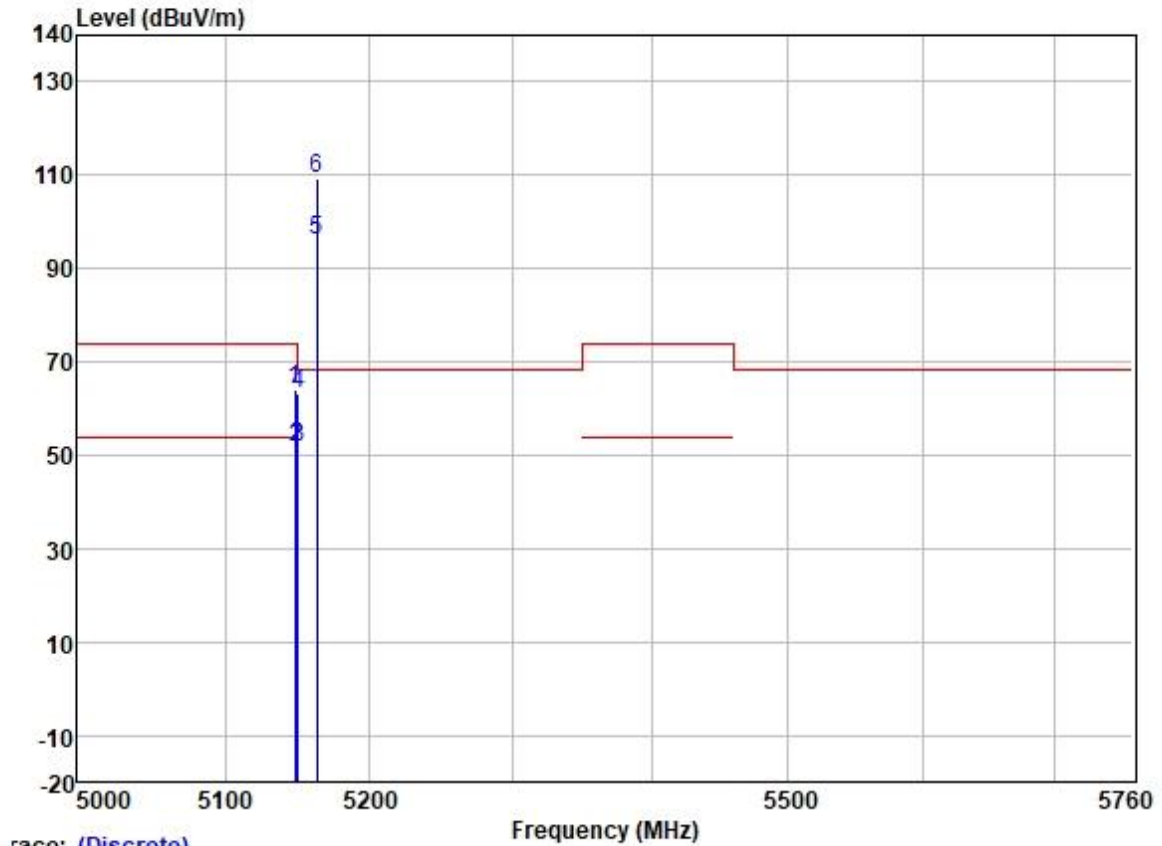


race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5106.144	49.49	31.72	5.65	36.86	50.00	54.00	-4.00	HORIZONTAL Average
2	5106.144	62.09	31.72	5.65	36.86	62.60	74.00	-11.40	HORIZONTAL Peak
3	5149.980	49.50	31.72	5.62	36.86	49.98	54.00	-4.02	HORIZONTAL Average
4	5149.980	61.13	31.72	5.62	36.86	61.61	74.00	-12.39	HORIZONTAL Peak
5	5163.000	88.16	31.73	5.61	36.87	88.63	-----	-----	HORIZONTAL Average
6 *	5163.000	101.32	31.73	5.61	36.87	101.79	68.20	33.59	HORIZONTAL Peak



Test Mode: 40; Polarity: Vertical; Modulation: OFDM; Channel: Low+2

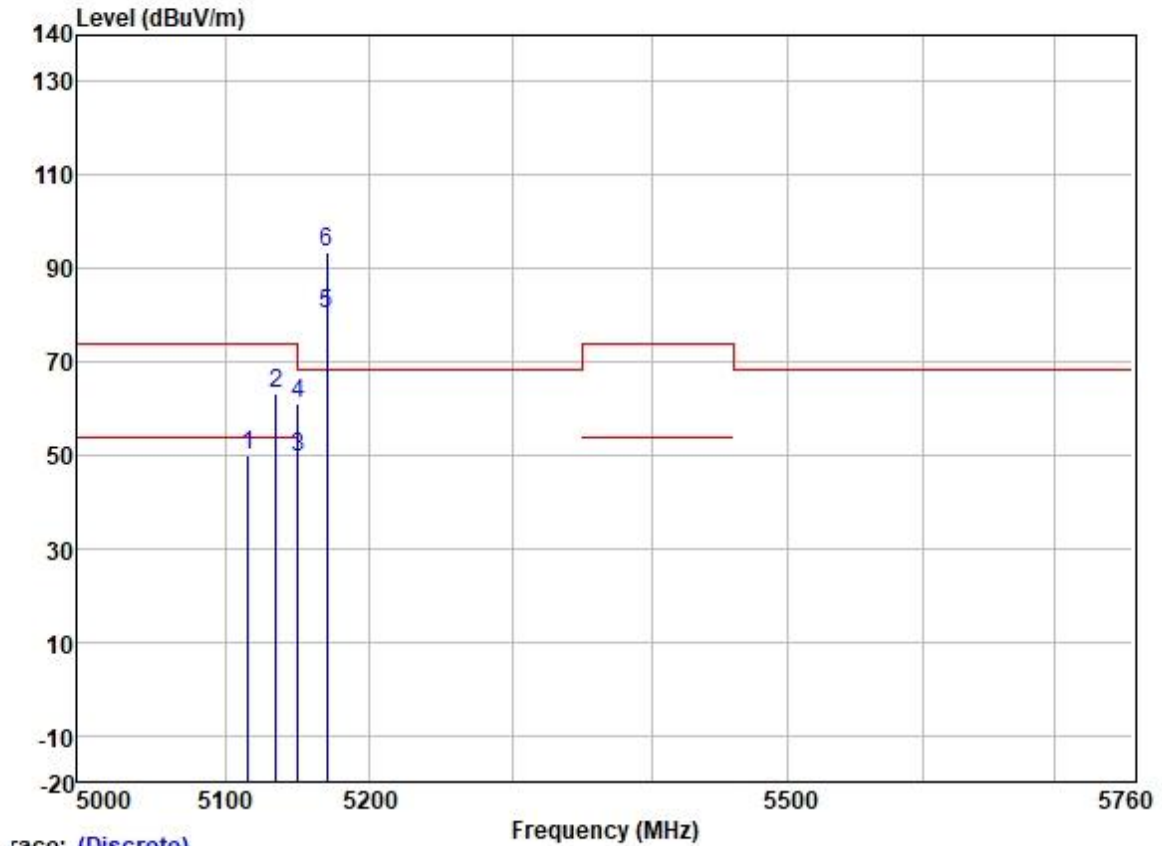


race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5148.058	63.58	31.72	5.62	36.86	64.06	74.00	-9.94	VERTICAL	Peak
2	5149.357	51.19	31.72	5.62	36.86	51.67	54.00	-2.33	VERTICAL	Average
3	5149.980	51.27	31.72	5.62	36.86	51.75	54.00	-2.25	VERTICAL	Average
4	5149.980	62.92	31.72	5.62	36.86	63.40	74.00	-10.60	VERTICAL	Peak
5	5163.000	95.58	31.73	5.61	36.87	96.05	-----	-----	VERTICAL	Average
6 *	5163.000	108.98	31.73	5.61	36.87	109.45	68.20	41.25	VERTICAL	Peak

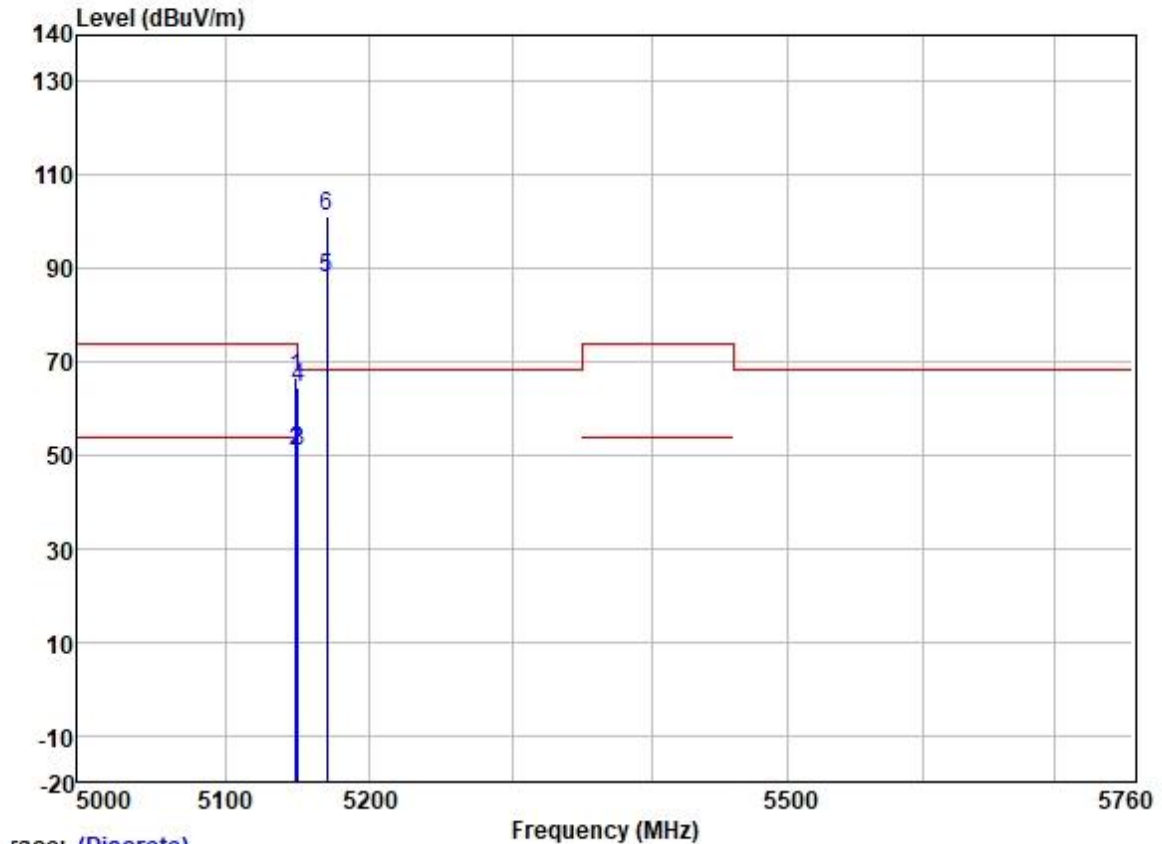


Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low



	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	5115.671	49.46	31.72	5.64	36.86	49.96	54.00	-4.04	HORIZONTAL Average
2	5134.879	62.56	31.72	5.63	36.86	63.05	74.00	-10.95	HORIZONTAL Peak
3	5149.980	49.24	31.72	5.62	36.86	49.72	54.00	-4.28	HORIZONTAL Average
4	5149.980	60.67	31.72	5.62	36.86	61.15	74.00	-12.85	HORIZONTAL Peak
5	5170.000	79.61	31.73	5.61	36.87	80.08	-----	-----	HORIZONTAL Average
6 *	5170.000	92.83	31.73	5.61	36.87	93.30	68.20	25.10	HORIZONTAL Peak

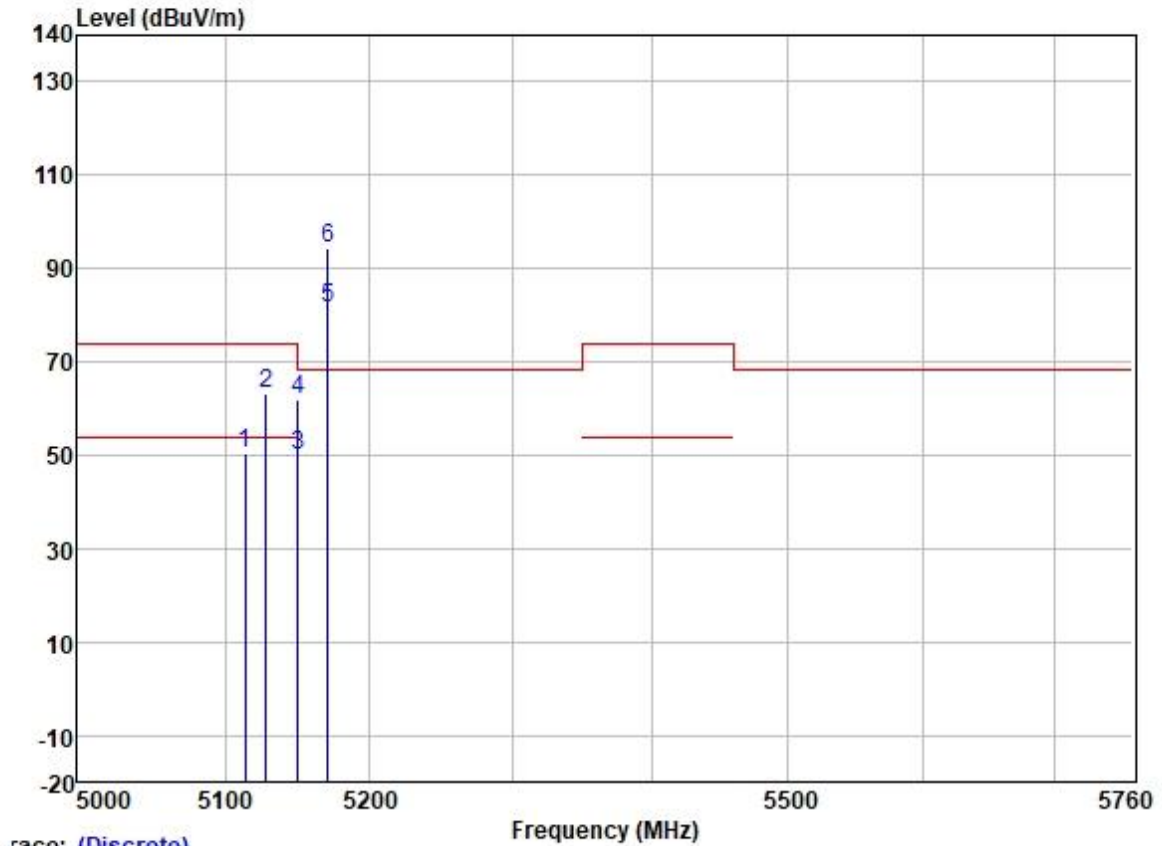
Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low



race: (Discrete)

	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	5148.357	66.00	31.72	5.62	36.86	66.48	74.00	-7.52	VERTICAL
2	5148.558	50.55	31.72	5.62	36.86	51.03	54.00	-2.97	VERTICAL
3	5149.980	50.35	31.72	5.62	36.86	50.83	54.00	-3.17	VERTICAL
4	5149.980	64.19	31.72	5.62	36.86	64.67	74.00	-9.33	VERTICAL
5	5170.000	87.35	31.73	5.61	36.87	87.82	-----	-----	VERTICAL
6 *	5170.000	100.82	31.73	5.61	36.87	101.29	68.20	33.09	VERTICAL

Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low+1

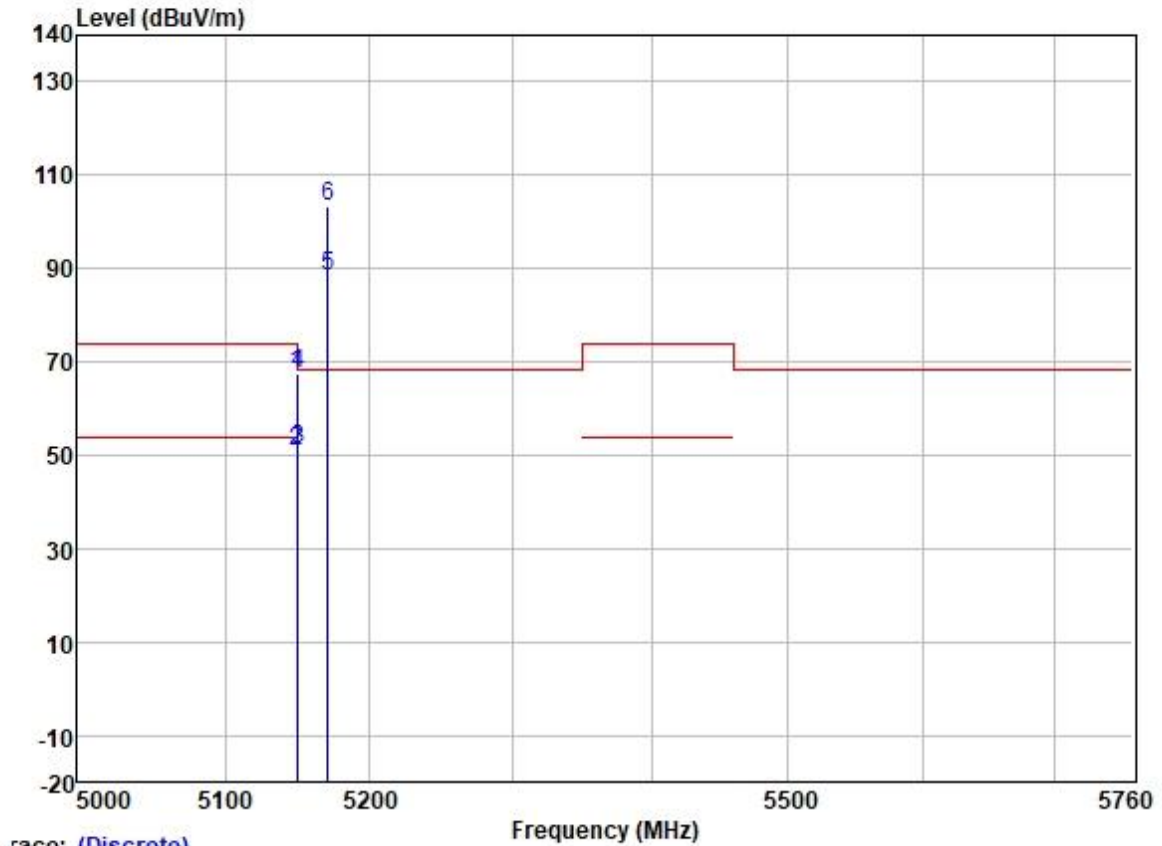


race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5114.015	49.69	31.72	5.64	36.86	50.19	54.00	-3.81	HORIZONTAL	Average
2	5127.831	62.62	31.72	5.63	36.86	63.11	74.00	-10.89	HORIZONTAL	Peak
3	5149.980	49.37	31.72	5.62	36.86	49.85	54.00	-4.15	HORIZONTAL	Average
4	5149.980	61.49	31.72	5.62	36.86	61.97	74.00	-12.03	HORIZONTAL	Peak
5	5171.000	80.89	31.73	5.61	36.87	81.36	-----	-----	HORIZONTAL	Average
6 *	5171.000	93.83	31.73	5.61	36.87	94.30	68.20	26.10	HORIZONTAL	Peak



Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low+1

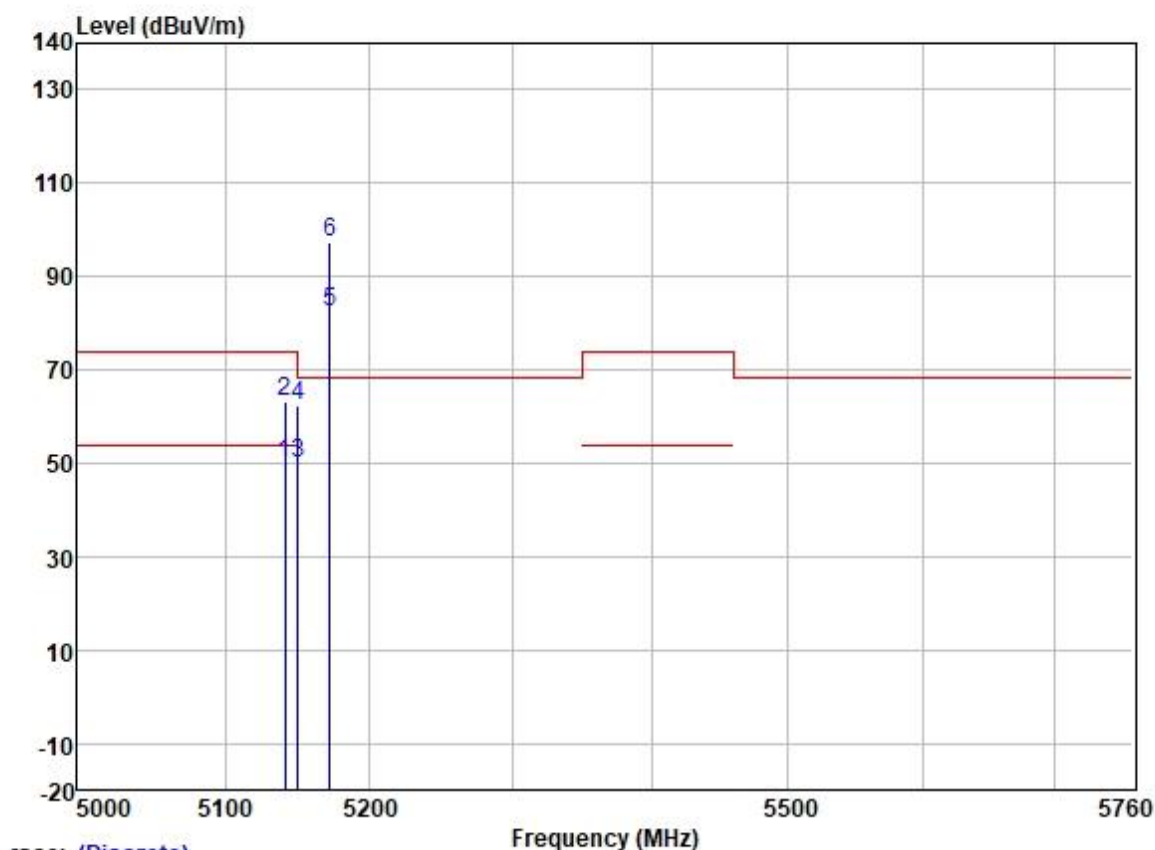


race: (Discrete)

	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	5149.102	67.10	31.72	5.62	36.86	67.58	74.00	-6.42	VERTICAL
2	5149.461	50.55	31.72	5.62	36.86	51.03	54.00	-2.97	VERTICAL
3	5149.980	50.59	31.72	5.62	36.86	51.07	54.00	-2.93	VERTICAL
4	5149.980	67.19	31.72	5.62	36.86	67.67	74.00	-6.33	VERTICAL
5	5171.000	87.80	31.73	5.61	36.87	88.27	-----	-----	VERTICAL
6 *	5171.000	102.82	31.73	5.61	36.87	103.29	68.20	35.09	VERTICAL



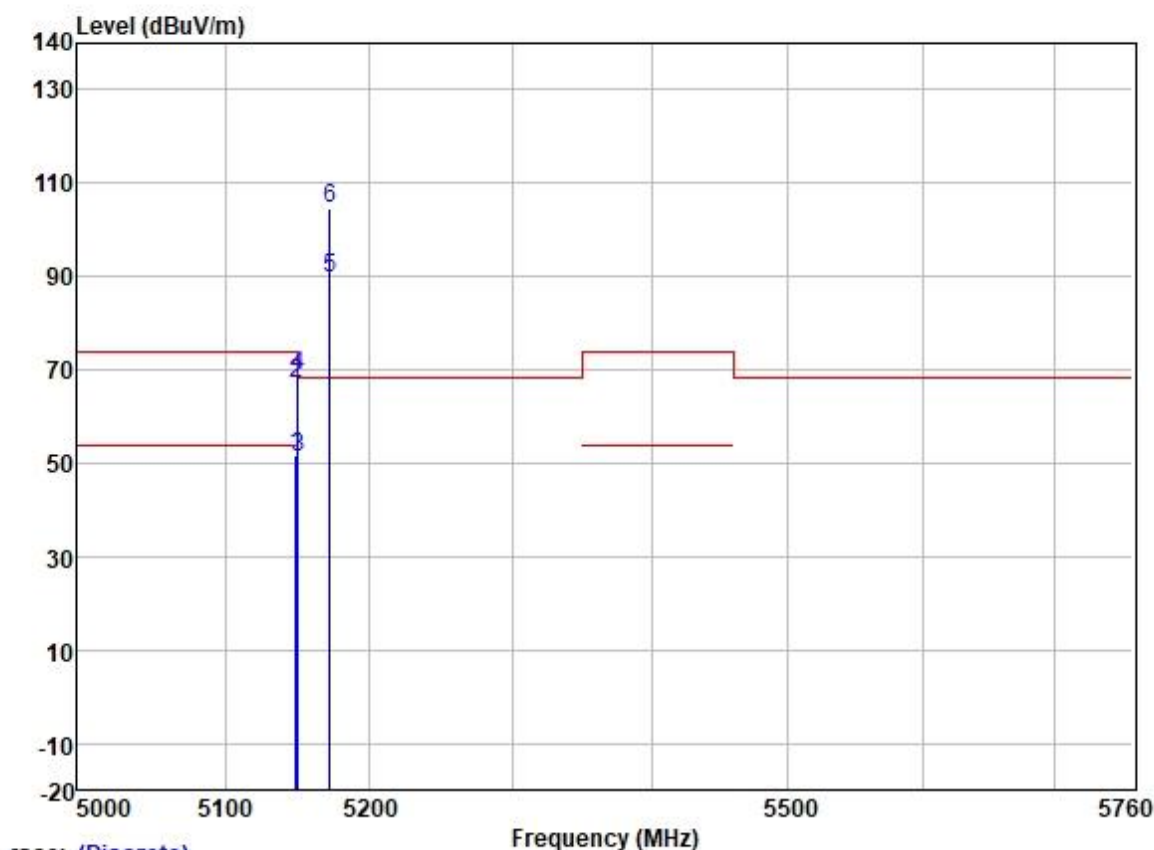
Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low+2



race: (Discrete)

	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	5141.324	49.63	31.72	5.63	36.86	50.12	54.00	-3.88	HORIZONTAL Average
2	5141.324	62.59	31.72	5.63	36.86	63.08	74.00	-10.92	HORIZONTAL Peak
3	5149.980	49.57	31.72	5.62	36.86	50.05	54.00	-3.95	HORIZONTAL Average
4	5149.980	61.89	31.72	5.62	36.86	62.37	74.00	-11.63	HORIZONTAL Peak
5	5172.000	82.13	31.73	5.61	36.87	82.60	-----	-----	HORIZONTAL Average
6 *	5172.000	96.66	31.73	5.61	36.87	97.13	68.20	28.93	HORIZONTAL Peak

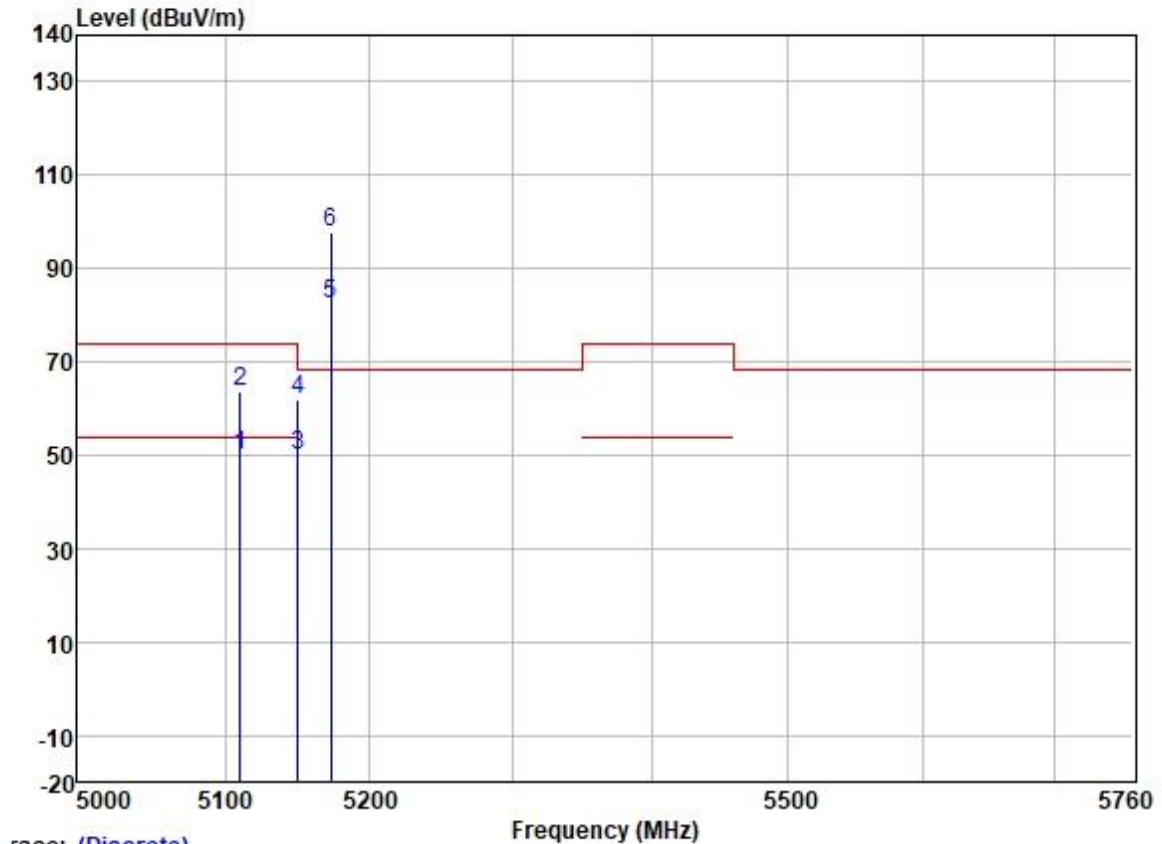
Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low+2



race: (Discrete)

	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	5148.982	51.11	31.72	5.62	36.86	51.59	54.00	-2.41	VERTICAL
2	5149.461	66.49	31.72	5.62	36.86	66.97	74.00	-7.03	VERTICAL
3	5149.980	50.87	31.72	5.62	36.86	51.35	54.00	-2.65	VERTICAL
4	5149.980	68.18	31.72	5.62	36.86	68.66	74.00	-5.34	VERTICAL
5	5172.000	89.20	31.73	5.61	36.87	89.67	-----	-----	VERTICAL
6 *	5172.000	104.06	31.73	5.61	36.87	104.53	68.20	36.33	VERTICAL

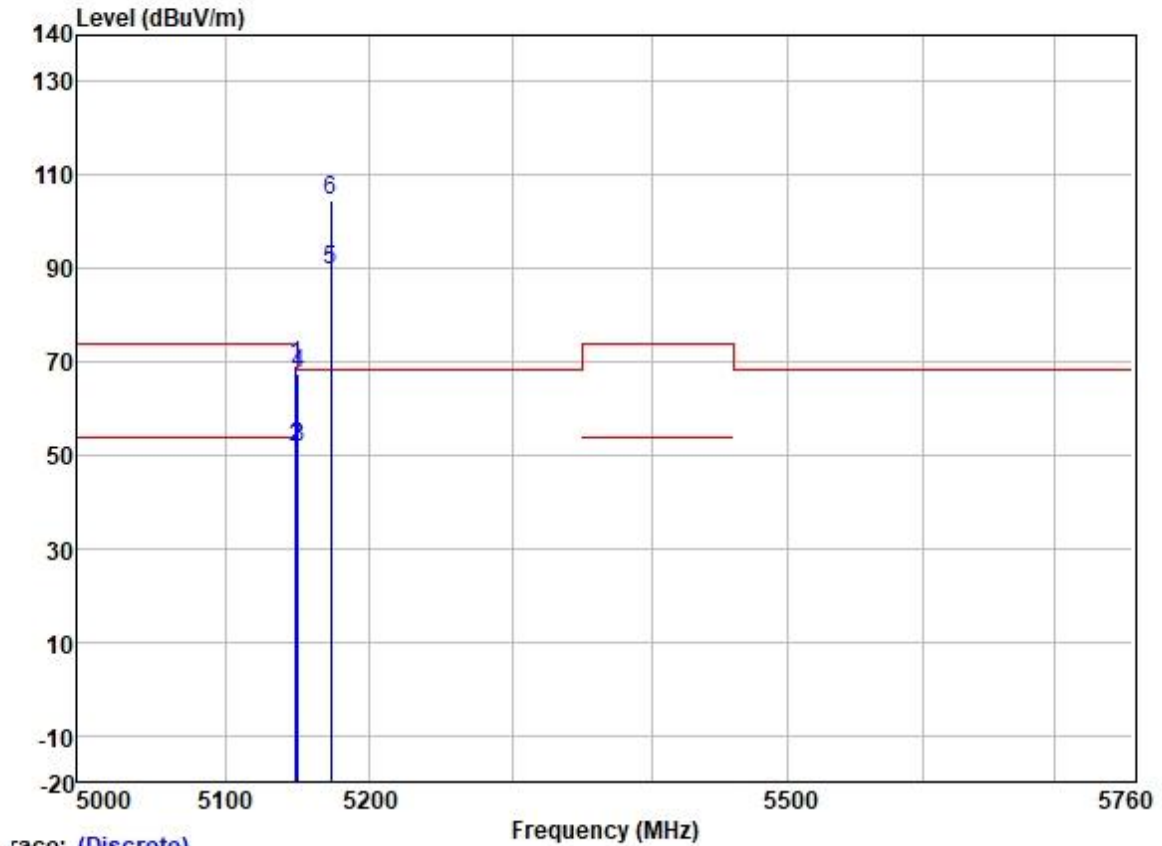
Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low+3



	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	5110.330	49.57	31.72	5.65	36.86	50.08	54.00	-3.92	HORIZONTAL	Average
2	5110.330	63.14	31.72	5.65	36.86	63.65	74.00	-10.35	HORIZONTAL	Peak
3	5149.980	49.54	31.72	5.62	36.86	50.02	54.00	-3.98	HORIZONTAL	Average
4	5149.980	61.34	31.72	5.62	36.86	61.82	74.00	-12.18	HORIZONTAL	Peak
5	5173.000	82.10	31.73	5.61	36.87	82.57	-----	-----	HORIZONTAL	Average
6 *	5173.000	97.23	31.73	5.61	36.87	97.70	68.20	29.50	HORIZONTAL	Peak



Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low+3

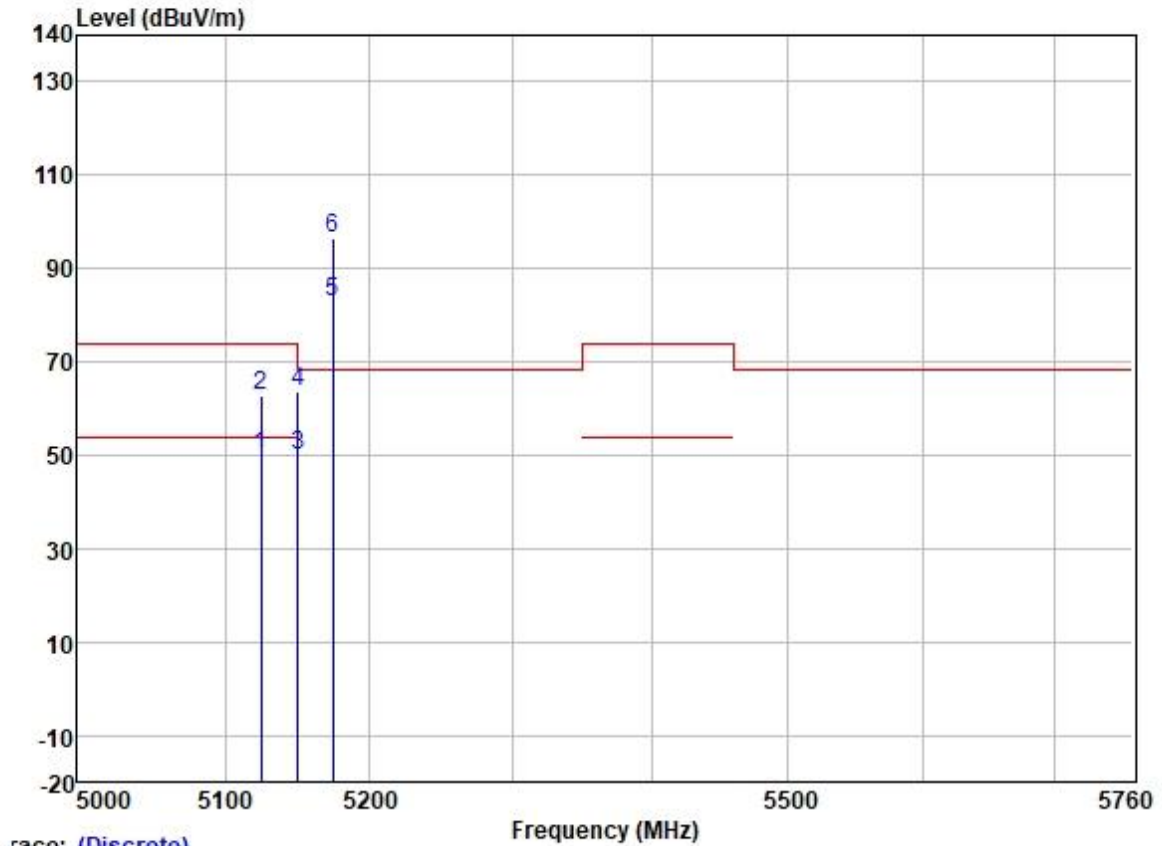


race: (Discrete)

	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	5148.863	68.62	31.72	5.62	36.86	69.10	74.00	-4.90	VERTICAL
2	5149.461	51.29	31.72	5.62	36.86	51.77	54.00	-2.23	VERTICAL
3	5149.980	51.37	31.72	5.62	36.86	51.85	54.00	-2.15	VERTICAL
4	5149.980	66.90	31.72	5.62	36.86	67.38	74.00	-6.62	VERTICAL
5	5173.000	89.22	31.73	5.61	36.87	89.69	-----	-----	VERTICAL
6 *	5173.000	104.00	31.73	5.61	36.87	104.47	68.20	36.27	VERTICAL

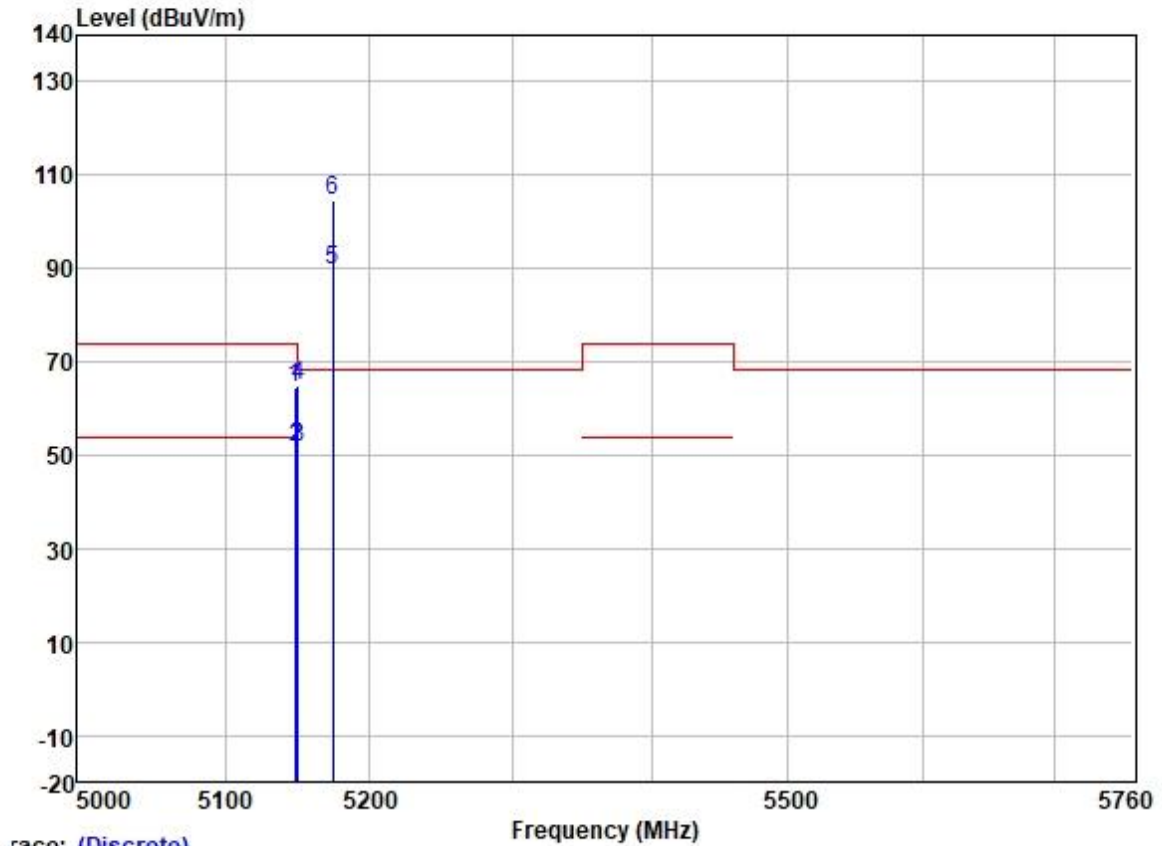


Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low+4



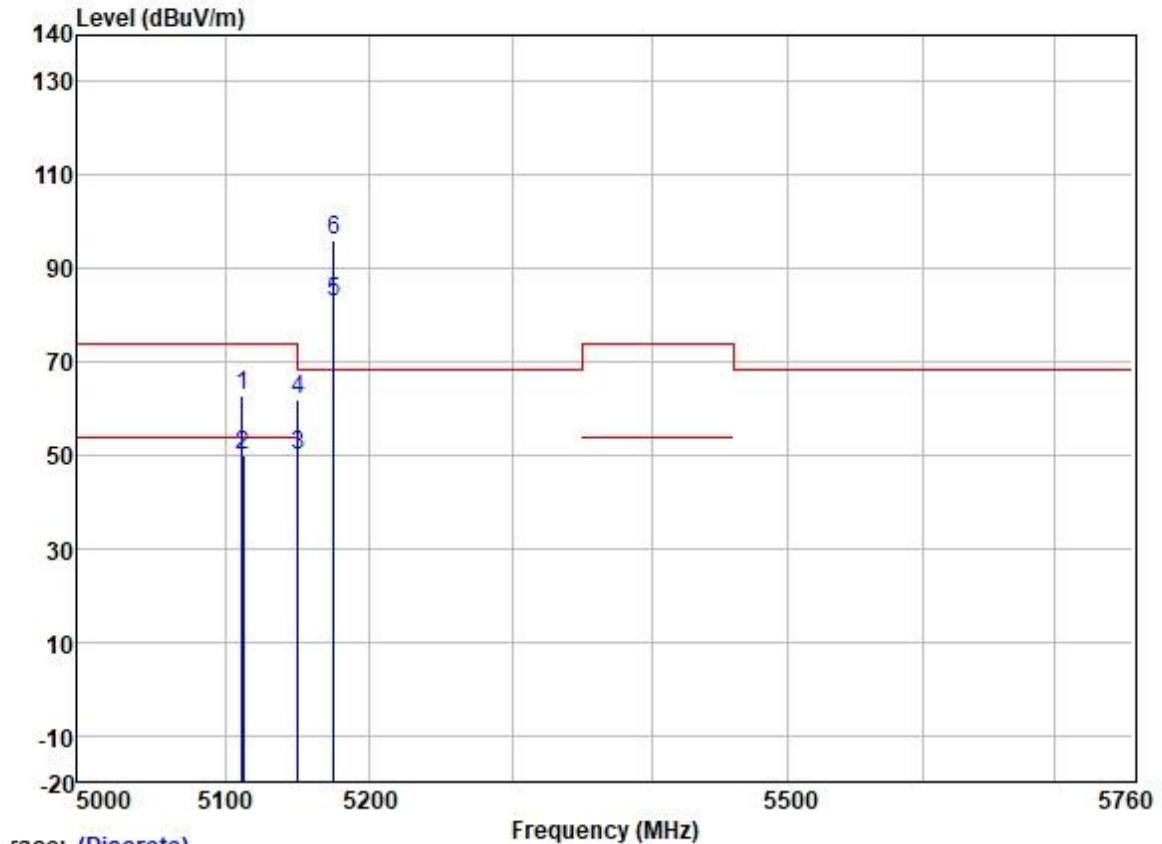
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5124.850	49.59	31.72	5.64	36.86	50.09	54.00	-3.91	HORIZONTAL Average
2	5124.850	62.29	31.72	5.64	36.86	62.79	74.00	-11.21	HORIZONTAL Peak
3	5149.980	49.51	31.72	5.62	36.86	49.99	54.00	-4.01	HORIZONTAL Average
4	5149.980	62.98	31.72	5.62	36.86	63.46	74.00	-10.54	HORIZONTAL Peak
5	5174.000	82.23	31.73	5.61	36.87	82.70	-----	-----	HORIZONTAL Average
6 *	5174.000	95.81	31.73	5.61	36.87	96.28	68.20	28.08	HORIZONTAL Peak

Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low+4



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5147.785	64.00	31.72	5.62	36.86	64.48	74.00	-9.52	VERTICAL	Peak
2	5149.342	51.05	31.72	5.62	36.86	51.53	54.00	-2.47	VERTICAL	Average
3	5149.980	51.14	31.72	5.62	36.86	51.62	54.00	-2.38	VERTICAL	Average
4	5149.980	64.37	31.72	5.62	36.86	64.85	74.00	-9.15	VERTICAL	Peak
5	5174.000	89.30	31.73	5.61	36.87	89.77	-----	-----	VERTICAL	Average
6 *	5174.000	104.04	31.73	5.61	36.87	104.51	68.20	36.31	VERTICAL	Peak

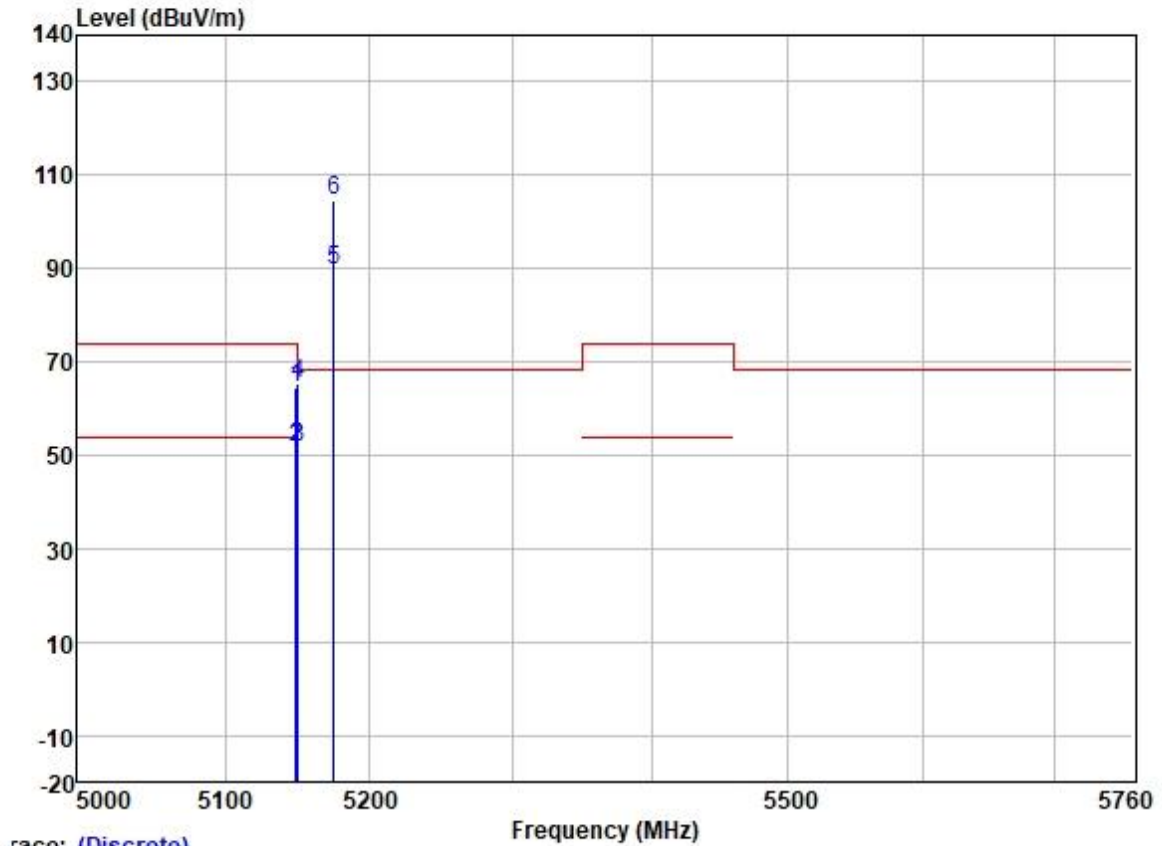
Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low+5



	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	5111.875	62.26	31.72	5.65	36.86	62.77	74.00	-11.23	HORIZONTAL Peak
2	5112.588	49.54	31.72	5.64	36.86	50.04	54.00	-3.96	HORIZONTAL Average
3	5149.980	49.48	31.72	5.62	36.86	49.96	54.00	-4.04	HORIZONTAL Average
4	5149.980	61.57	31.72	5.62	36.86	62.05	74.00	-11.95	HORIZONTAL Peak
5	5175.000	82.21	31.73	5.61	36.87	82.68	-----	-----	HORIZONTAL Average
6 *	5175.000	95.38	31.73	5.61	36.87	95.85	68.20	27.65	HORIZONTAL Peak



Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low+5

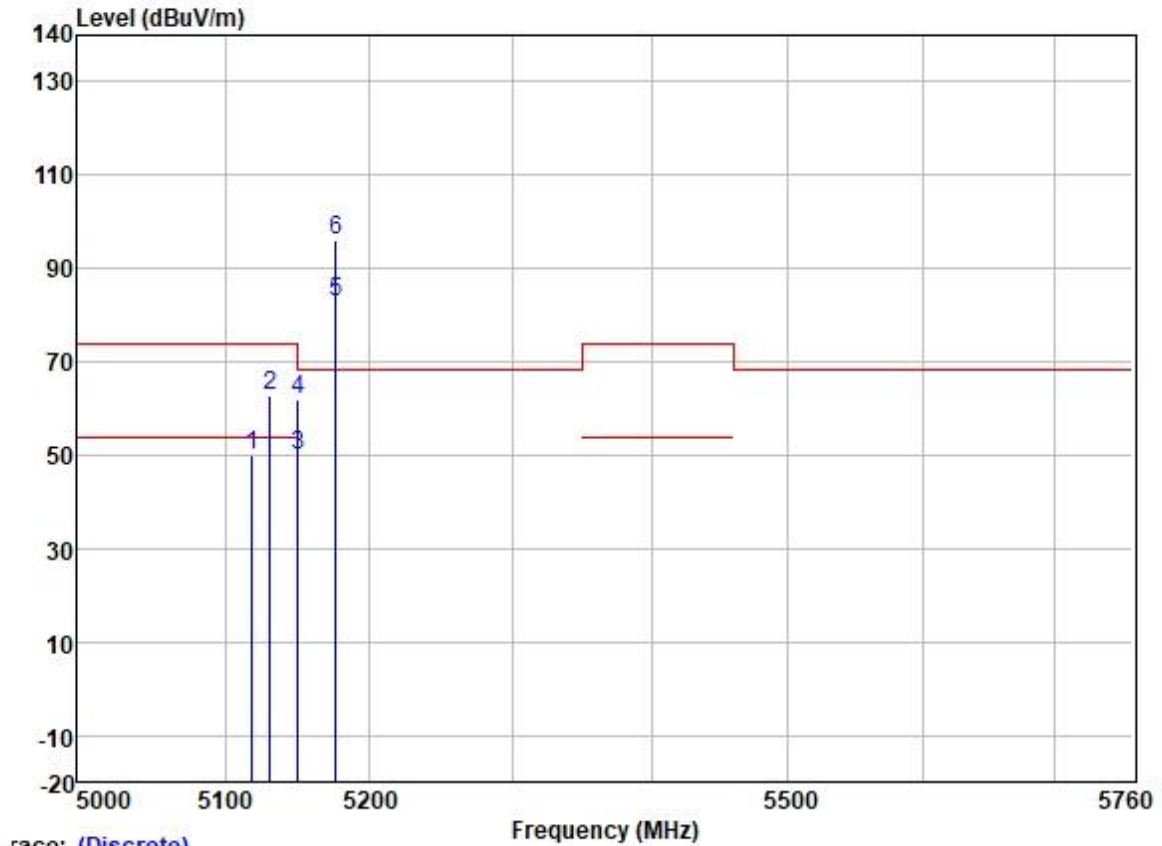


Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5148.623	63.95	31.72	5.62	36.86	64.43	74.00	-9.57	VERTICAL	Peak
2	5149.102	51.15	31.72	5.62	36.86	51.63	54.00	-2.37	VERTICAL	Average
3	5149.980	51.00	31.72	5.62	36.86	51.48	54.00	-2.52	VERTICAL	Average
4	5149.980	64.89	31.72	5.62	36.86	65.37	74.00	-8.63	VERTICAL	Peak
5	5175.000	89.31	31.73	5.61	36.87	89.78	-----	-----	VERTICAL	Average
6 *	5175.000	104.19	31.73	5.61	36.87	104.66	68.20	36.46	VERTICAL	Peak

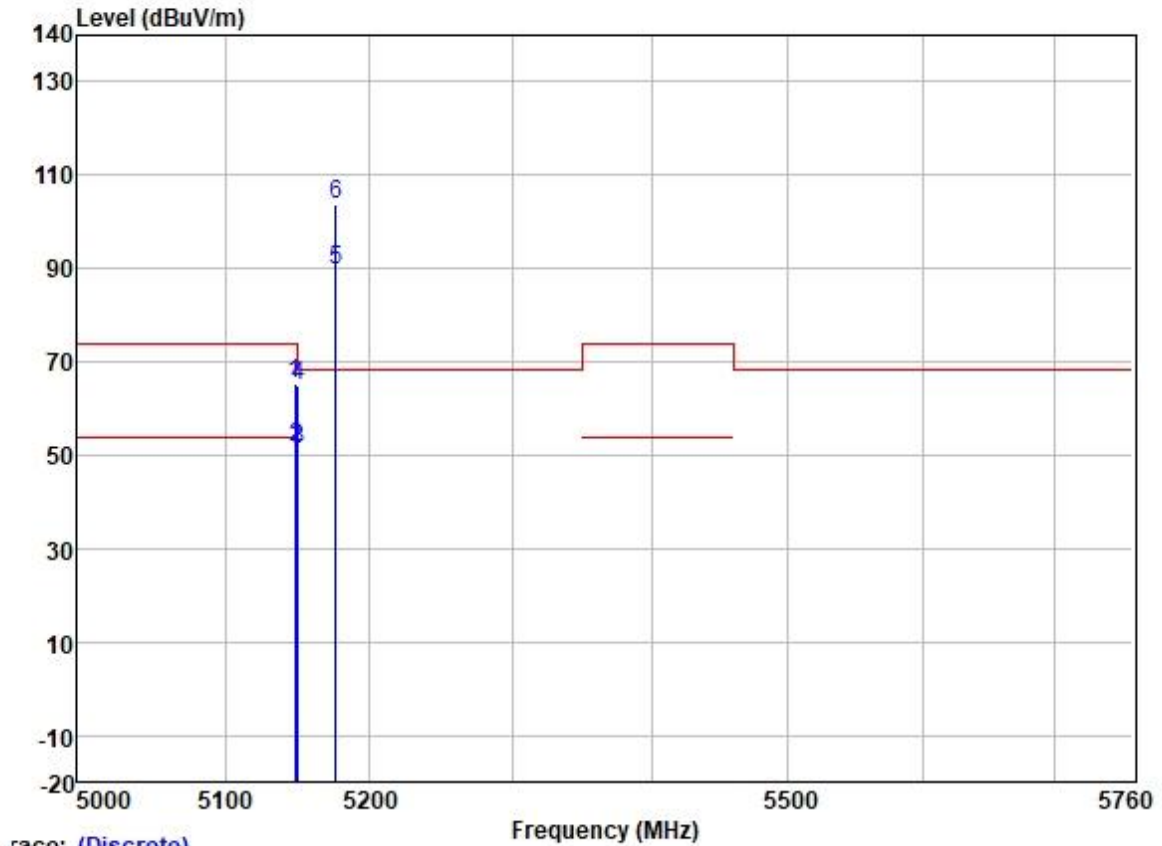


Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low+6



	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	5118.656	49.55	31.72	5.64	36.86	50.05	54.00	-3.95	HORIZONTAL Average
2	5131.051	62.42	31.72	5.63	36.86	62.91	74.00	-11.09	HORIZONTAL Peak
3	5149.980	49.38	31.72	5.62	36.86	49.86	54.00	-4.14	HORIZONTAL Average
4	5149.980	61.52	31.72	5.62	36.86	62.00	74.00	-12.00	HORIZONTAL Peak
5	5176.000	82.25	31.73	5.61	36.87	82.72	-----	-----	HORIZONTAL Average
6 *	5176.000	95.48	31.73	5.61	36.87	95.95	68.20	27.75	HORIZONTAL Peak

Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low+6



race: (Discrete)

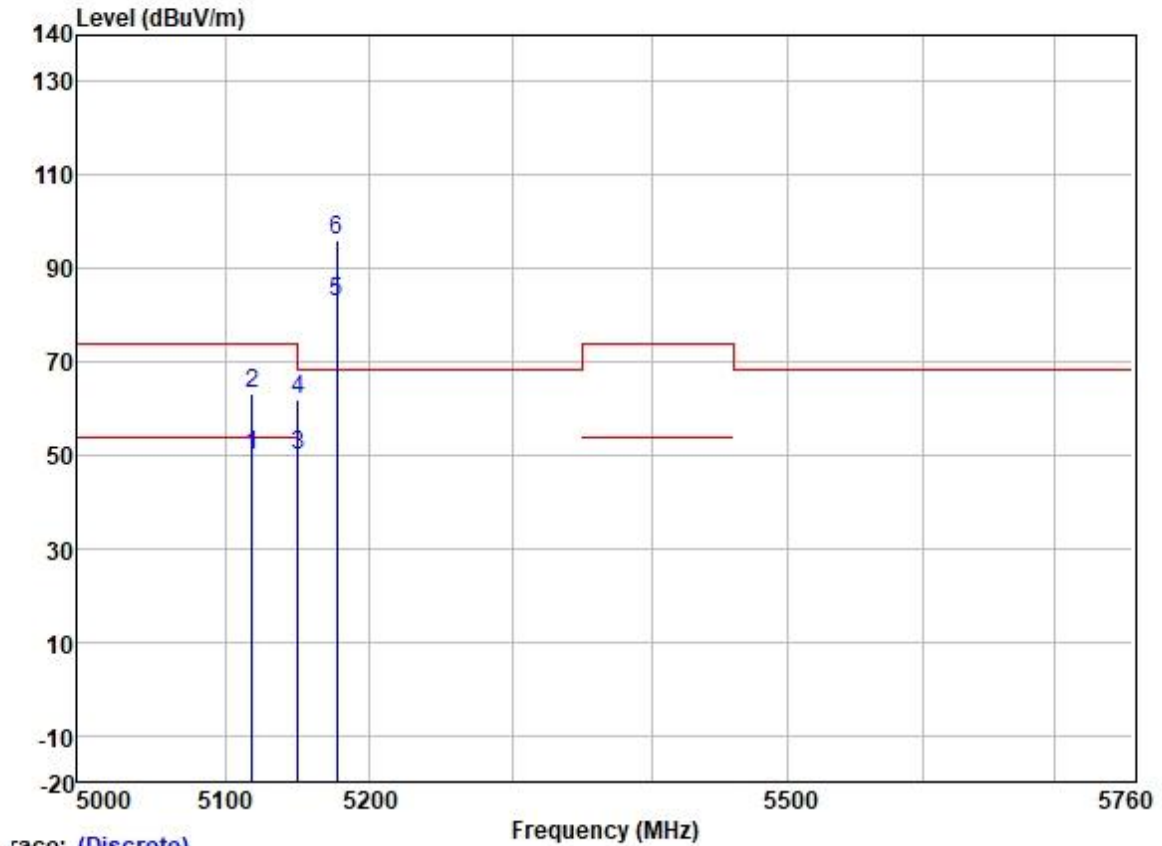
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5148.144	64.90	31.72	5.62	36.86	65.38	74.00	-8.62	VERTICAL Peak
2	5149.461	51.17	31.72	5.62	36.86	51.65	54.00	-2.35	VERTICAL Average
3	5149.980	50.92	31.72	5.62	36.86	51.40	54.00	-2.60	VERTICAL Average
4	5149.980	64.52	31.72	5.62	36.86	65.00	74.00	-9.00	VERTICAL Peak
5	5176.000	89.31	31.73	5.61	36.87	89.78	-----	-----	VERTICAL Average
6 *	5176.000	103.34	31.73	5.61	36.87	103.81	68.20	35.61	VERTICAL Peak



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Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low+7

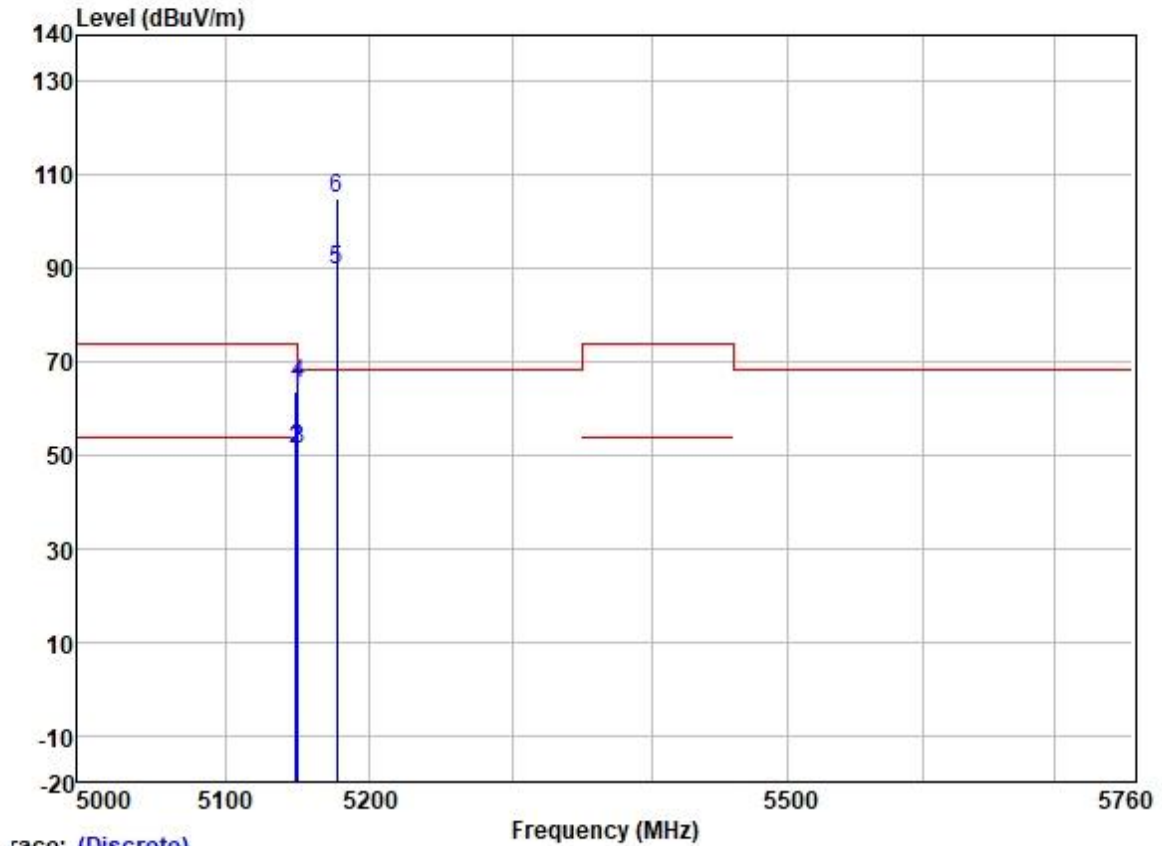


race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5118.180	49.49	31.72	5.64	36.86	49.99	-4.01	HORIZONTAL	Average
2	5118.180	62.72	31.72	5.64	36.86	63.22	-10.78	HORIZONTAL	Peak
3	5149.980	49.36	31.72	5.62	36.86	49.84	-4.16	HORIZONTAL	Average
4	5149.980	61.55	31.72	5.62	36.86	62.03	-11.97	HORIZONTAL	Peak
5	5177.000	82.29	31.73	5.61	36.87	82.76	-----	HORIZONTAL	Average
6 *	5177.000	95.76	31.73	5.61	36.87	96.23	28.03	HORIZONTAL	Peak



Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low+7

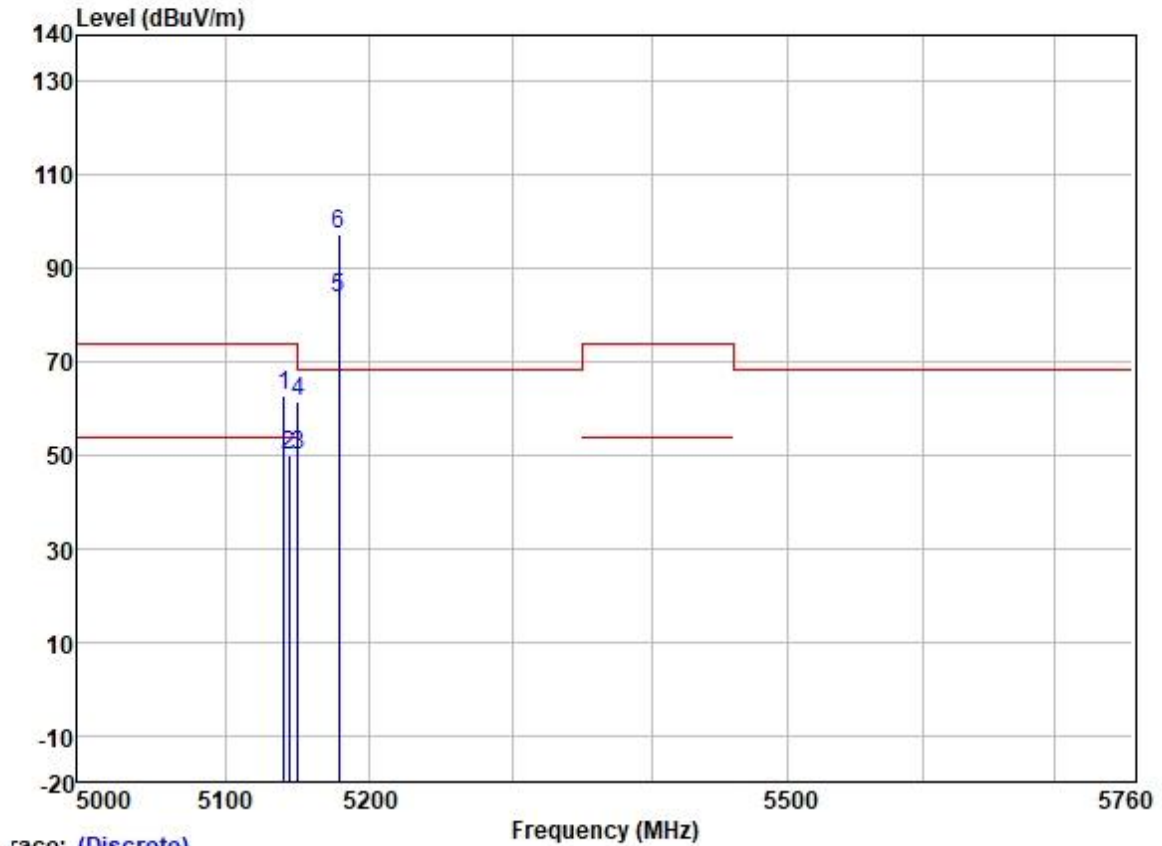


race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5148.623	63.10	31.72	5.62	36.86	63.58	74.00	-10.42	VERTICAL	Peak
2	5149.461	50.81	31.72	5.62	36.86	51.29	54.00	-2.71	VERTICAL	Average
3	5149.980	50.81	31.72	5.62	36.86	51.29	54.00	-2.71	VERTICAL	Average
4	5149.980	64.86	31.72	5.62	36.86	65.34	74.00	-8.66	VERTICAL	Peak
5	5177.000	89.37	31.73	5.61	36.87	89.84	-----	-----	VERTICAL	Average
6 *	5177.000	104.43	31.73	5.61	36.87	104.90	68.20	36.70	VERTICAL	Peak



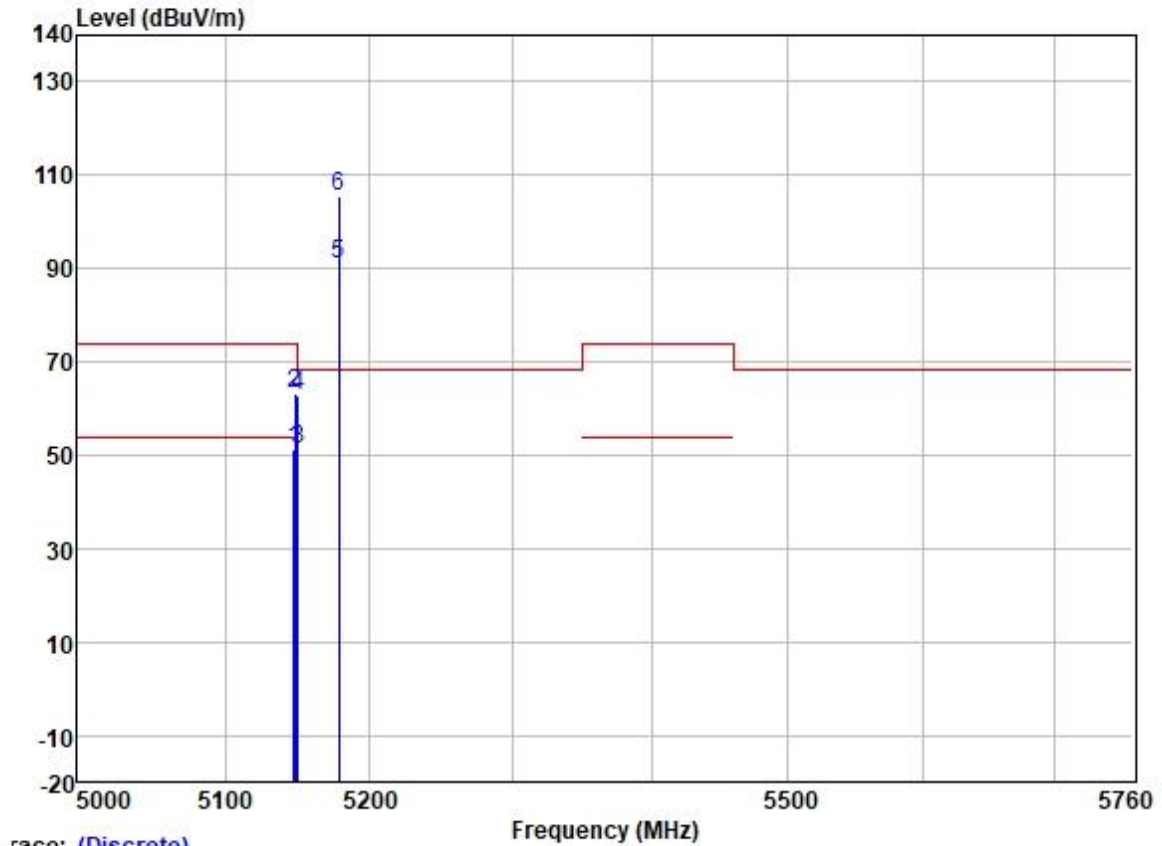
Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low+8



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5140.727	62.39	31.72	5.63	36.86	62.88	74.00	-11.12	HORIZONTAL	Peak
2	5143.836	49.55	31.72	5.62	36.86	50.03	54.00	-3.97	HORIZONTAL	Average
3	5149.980	49.31	31.72	5.62	36.86	49.79	54.00	-4.21	HORIZONTAL	Average
4	5149.980	61.22	31.72	5.62	36.86	61.70	74.00	-12.30	HORIZONTAL	Peak
5	5178.000	83.32	31.73	5.61	36.87	83.79	-----	-----	HORIZONTAL	Average
6 *	5178.000	96.71	31.73	5.61	36.87	97.18	68.20	28.98	HORIZONTAL	Peak

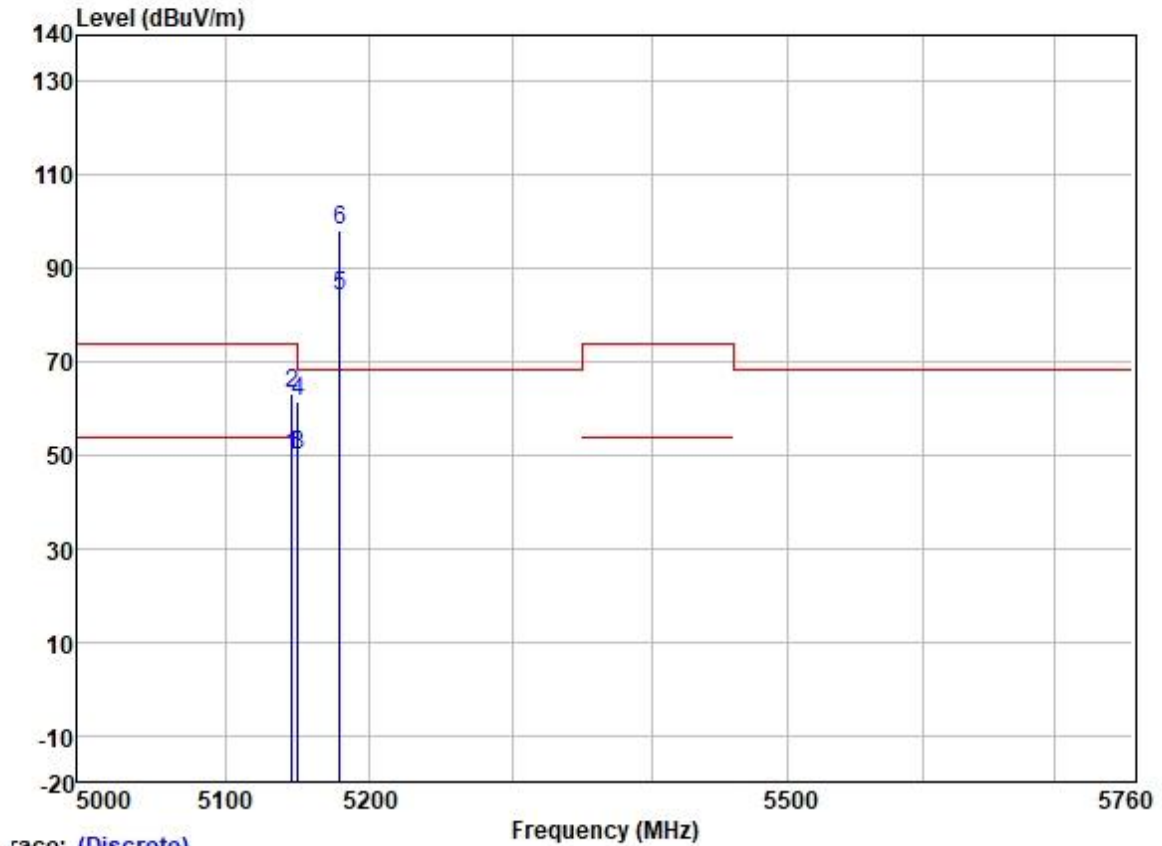
Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low+8



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5146.947	50.78	31.72	5.62	36.86	51.26	54.00	-2.74	VERTICAL	Average
2	5147.905	62.83	31.72	5.62	36.86	63.31	74.00	-10.69	VERTICAL	Peak
3	5149.980	50.61	31.72	5.62	36.86	51.09	54.00	-2.91	VERTICAL	Average
4	5149.980	62.41	31.72	5.62	36.86	62.89	74.00	-11.11	VERTICAL	Peak
5	5178.000	90.66	31.73	5.61	36.87	91.13	-----	-----	VERTICAL	Average
6 *	5178.000	104.90	31.73	5.61	36.87	105.37	68.20	37.17	VERTICAL	Peak

Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low+9

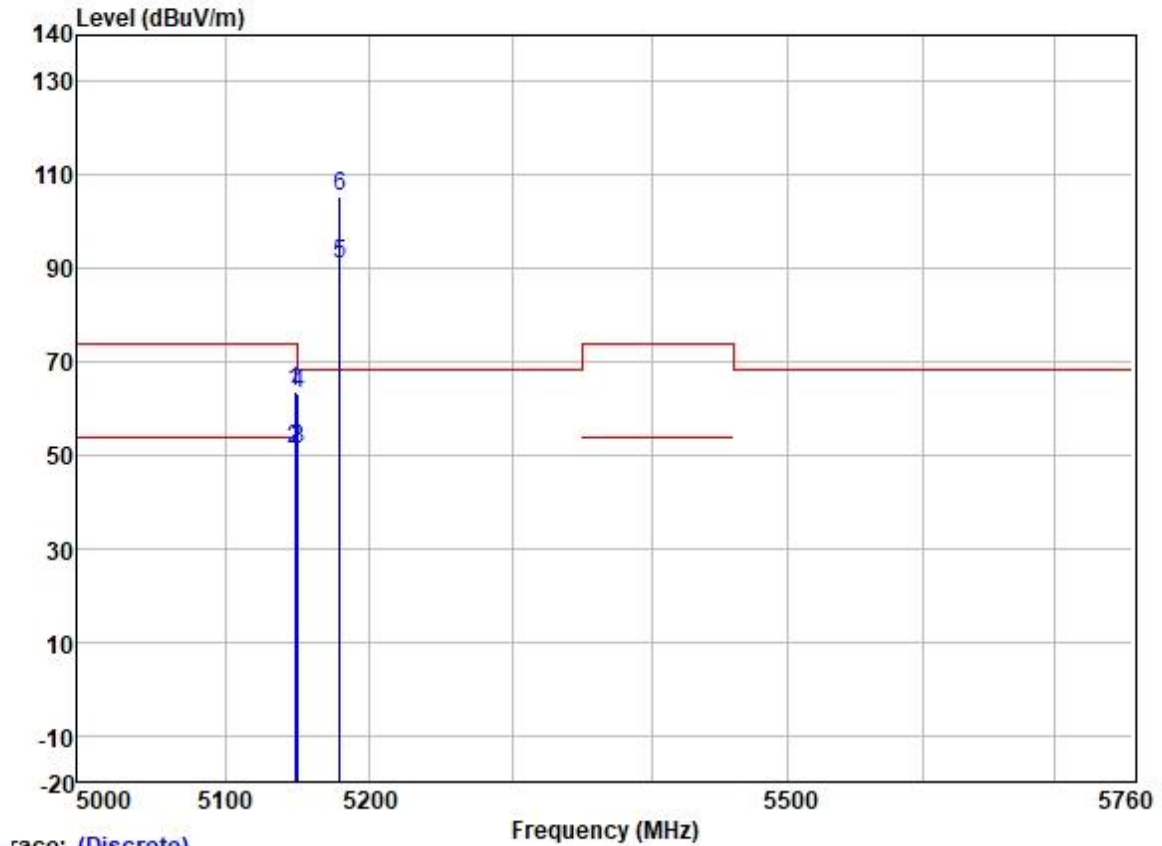


race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5146.229	49.46	31.72	5.62	36.86	49.94	54.00	-4.06	HORIZONTAL	Average
2	5146.229	62.52	31.72	5.62	36.86	63.00	74.00	-11.00	HORIZONTAL	Peak
3	5149.980	49.38	31.72	5.62	36.86	49.86	54.00	-4.14	HORIZONTAL	Average
4	5149.980	60.92	31.72	5.62	36.86	61.40	74.00	-12.60	HORIZONTAL	Peak
5	5179.000	83.45	31.73	5.61	36.87	83.92	-----	-----	HORIZONTAL	Average
6 *	5179.000	97.71	31.73	5.61	36.87	98.18	68.20	29.98	HORIZONTAL	Peak



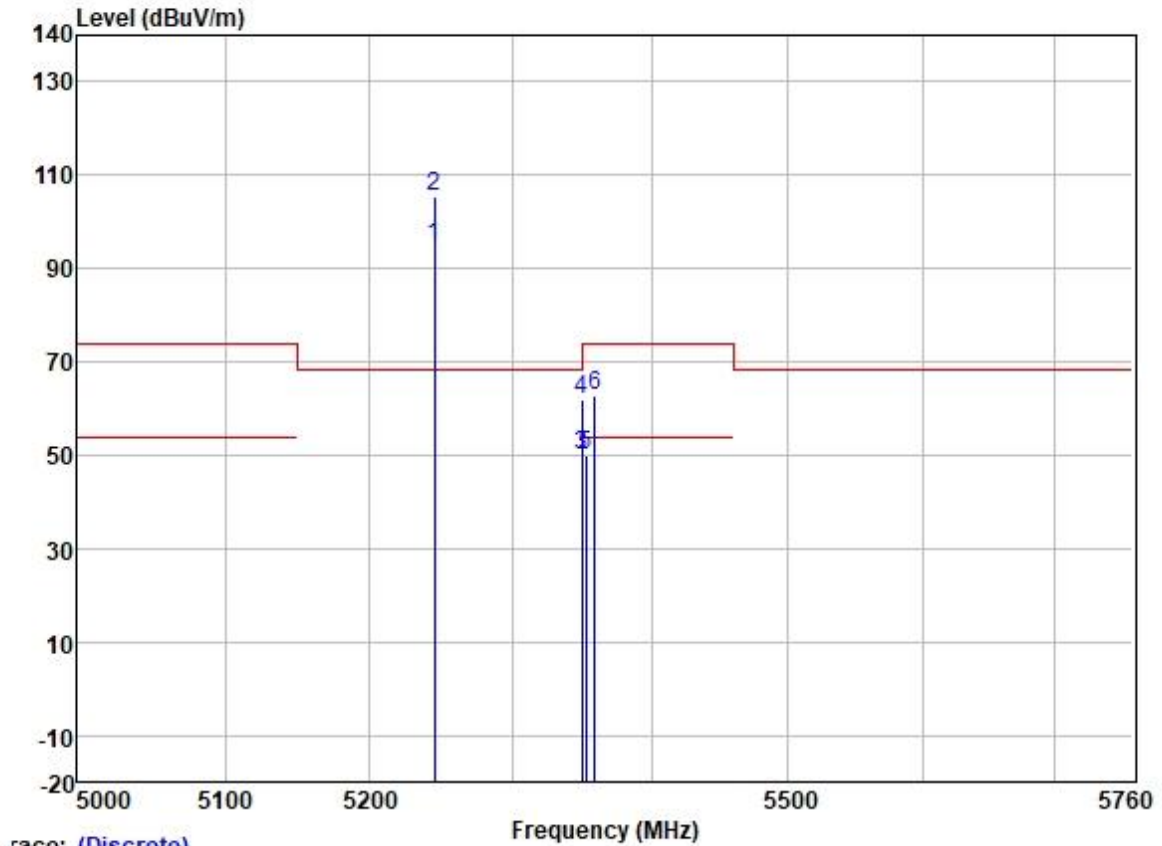
Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low+9



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5147.785	63.17	31.72	5.62	36.86	63.65	74.00	-10.35	VERTICAL	Peak
2	5148.024	50.58	31.72	5.62	36.86	51.06	54.00	-2.94	VERTICAL	Average
3	5149.980	50.62	31.72	5.62	36.86	51.10	54.00	-2.90	VERTICAL	Average
4	5149.980	62.55	31.72	5.62	36.86	63.03	74.00	-10.97	VERTICAL	Peak
5	5179.000	90.54	31.73	5.61	36.87	91.01	-----	-----	VERTICAL	Average
6 *	5179.000	105.13	31.73	5.61	36.87	105.60	68.20	37.40	VERTICAL	Peak



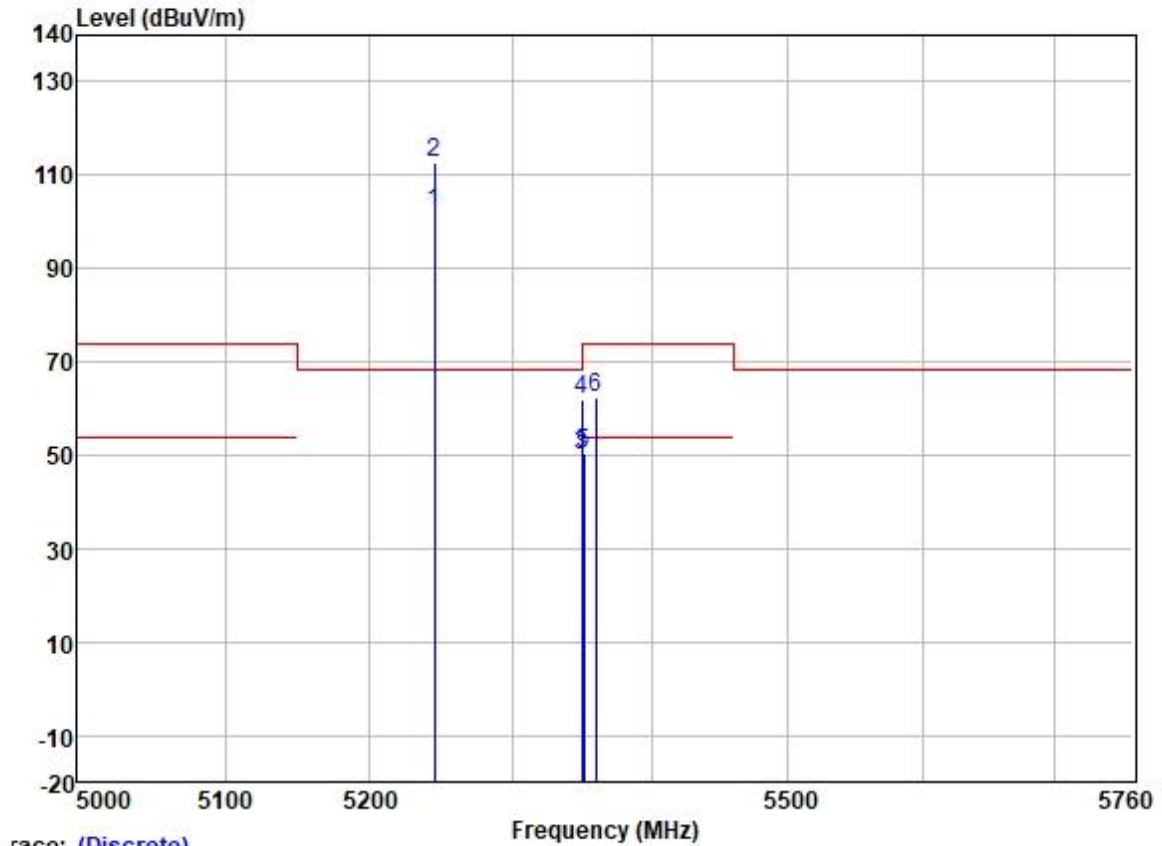
Test Mode: 39; Polarity: Horizontal; Modulation: OFDM; Channel: High



race: (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	5245.000	93.98	31.75	5.74	36.87	94.60	-----	-----	HORIZONTAL	Average
2 *	5245.000	104.84	31.75	5.74	36.87	105.46	68.20	37.26	HORIZONTAL	Peak
3	5350.020	48.88	31.77	6.05	36.88	49.82	54.00	-4.18	HORIZONTAL	Average
4	5350.020	61.18	31.77	6.05	36.88	62.12	74.00	-11.88	HORIZONTAL	Peak
5	5352.864	49.11	31.77	6.05	36.88	50.05	54.00	-3.95	HORIZONTAL	Average
6	5359.268	61.90	31.78	6.03	36.88	62.83	74.00	-11.17	HORIZONTAL	Peak

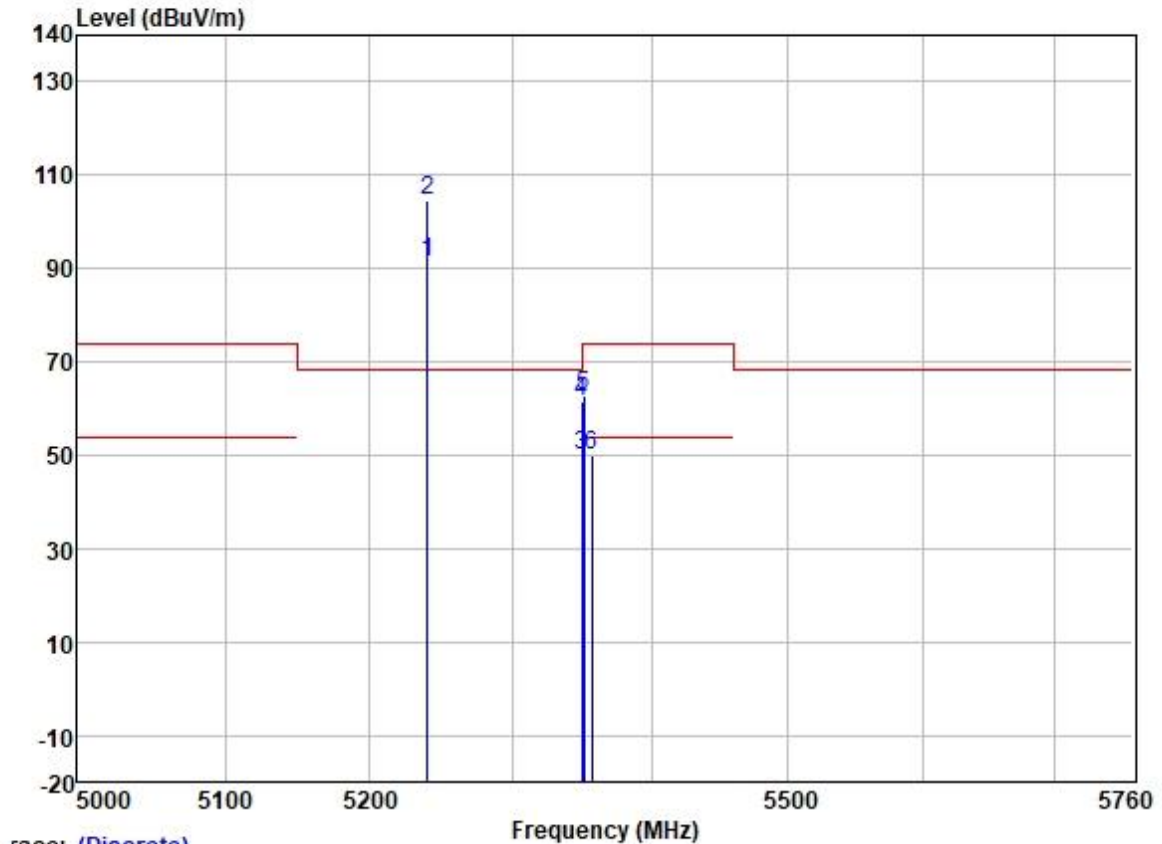
Test Mode: 39; Polarity: Vertical; Modulation: OFDM; Channel: High



race: (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	5245.000	101.42	31.75	5.74	36.87	102.04	-----	-----	VERTICAL	Average
2 *	5245.000	112.27	31.75	5.74	36.87	112.89	68.20	44.69	VERTICAL	Peak
3	5350.020	49.14	31.77	6.05	36.88	50.08	54.00	-3.92	VERTICAL	Average
4	5350.020	60.99	31.77	6.05	36.88	61.93	74.00	-12.07	VERTICAL	Peak
5	5351.219	49.35	31.77	6.05	36.88	50.29	54.00	-3.71	VERTICAL	Average
6	5359.451	61.52	31.78	6.03	36.88	62.45	74.00	-11.55	VERTICAL	Peak

Test Mode: 40; Polarity: Horizontal; Modulation: OFDM; Channel: High

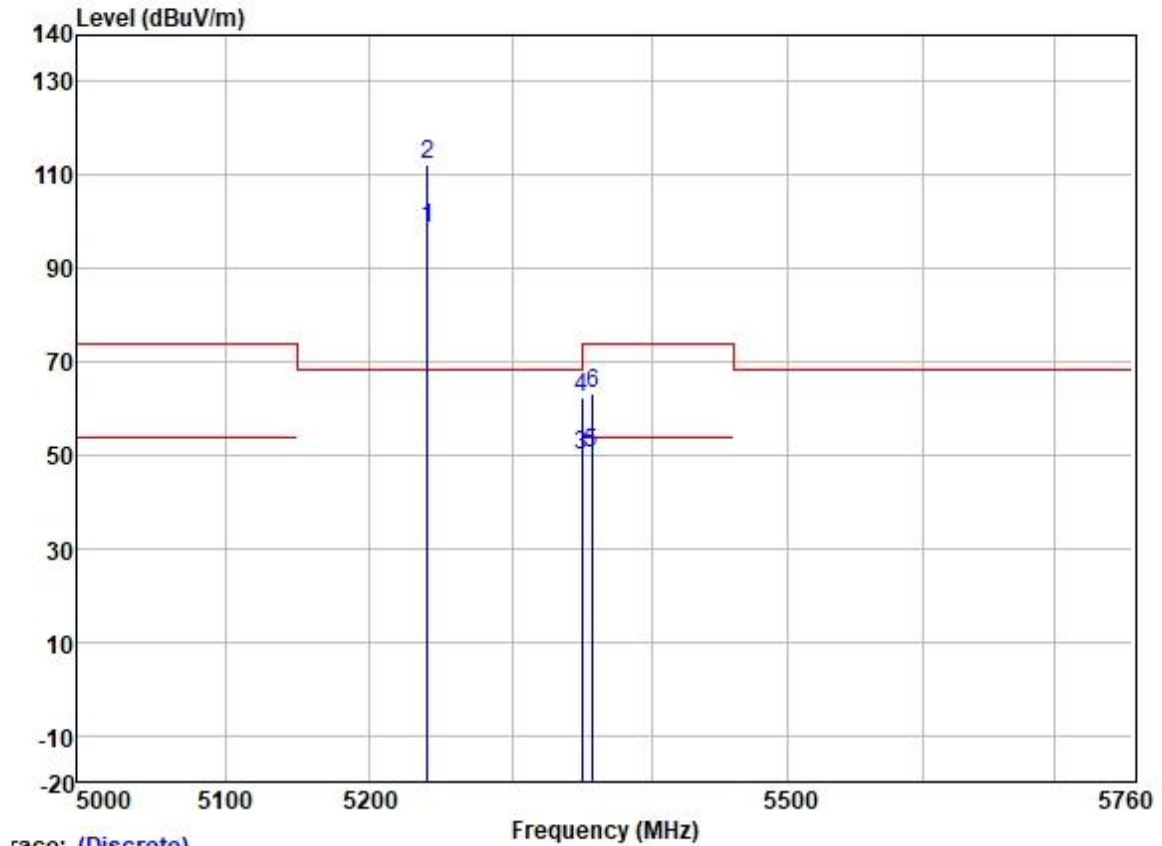


Trace: (Discrete)

	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	5240.000	90.59	31.75	5.74	36.87	91.21	-----	-----	HORIZONTAL Average
2 *	5240.000	103.79	31.75	5.74	36.87	104.41	68.20	36.21	HORIZONTAL Peak
3	5350.020	49.14	31.77	6.05	36.88	50.08	54.00	-3.92	HORIZONTAL Average
4	5350.020	60.66	31.77	6.05	36.88	61.60	74.00	-12.40	HORIZONTAL Peak
5	5351.036	61.88	31.77	6.05	36.88	62.82	74.00	-11.18	HORIZONTAL Peak
6	5357.071	49.25	31.78	6.03	36.88	50.18	54.00	-3.82	HORIZONTAL Average



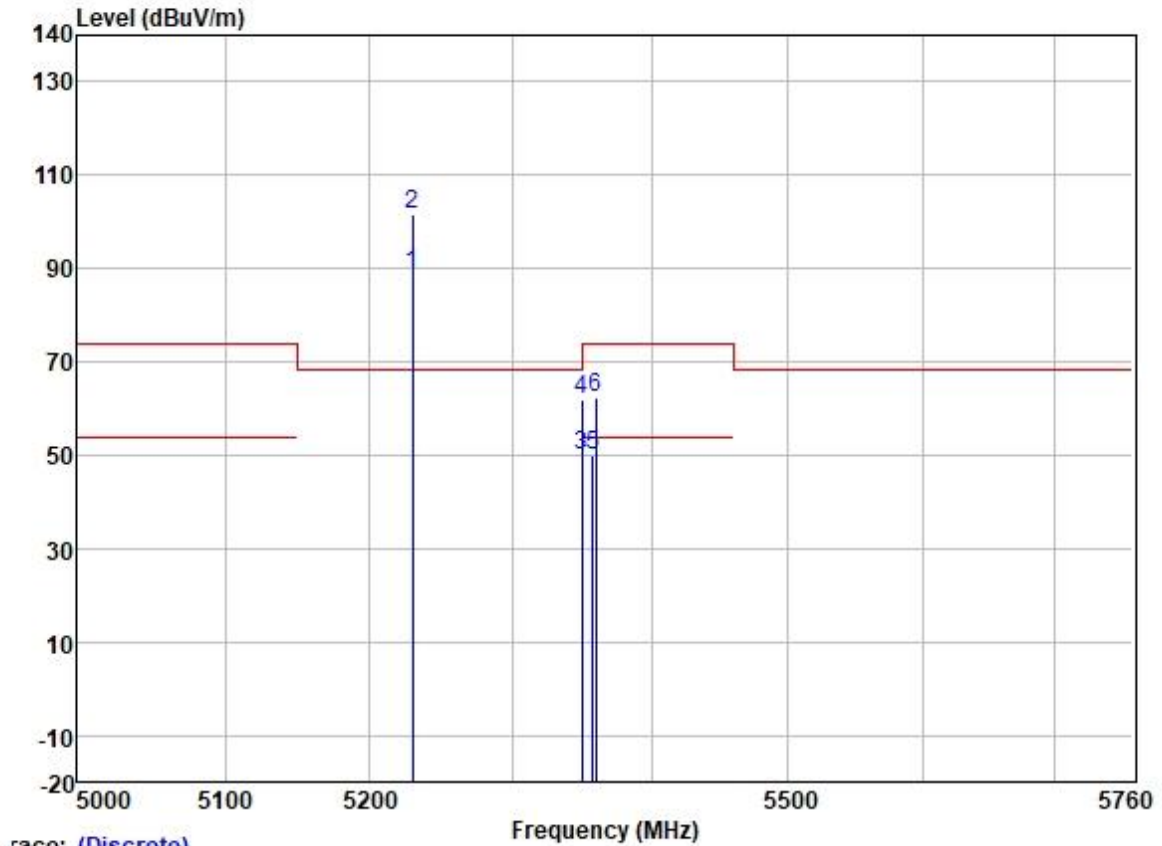
Test Mode: 40; Polarity: Vertical; Modulation: OFDM; Channel: High



race: (Discrete)	Frequency (MHz)									
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark	
		Level	Factor	Loss	Factor	Level	Line			Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	98.00	31.75	5.74	36.87	98.62	-----	-----	VERTICAL	Average
2 *	5240.000	111.60	31.75	5.74	36.87	112.22	68.20	44.02	VERTICAL	Peak
3	5350.020	49.23	31.77	6.05	36.88	50.17	54.00	-3.83	VERTICAL	Average
4	5350.020	61.45	31.77	6.05	36.88	62.39	74.00	-11.61	VERTICAL	Peak
5	5357.071	49.27	31.78	6.03	36.88	50.20	54.00	-3.80	VERTICAL	Average
6	5357.803	62.15	31.78	6.03	36.88	63.08	74.00	-10.92	VERTICAL	Peak



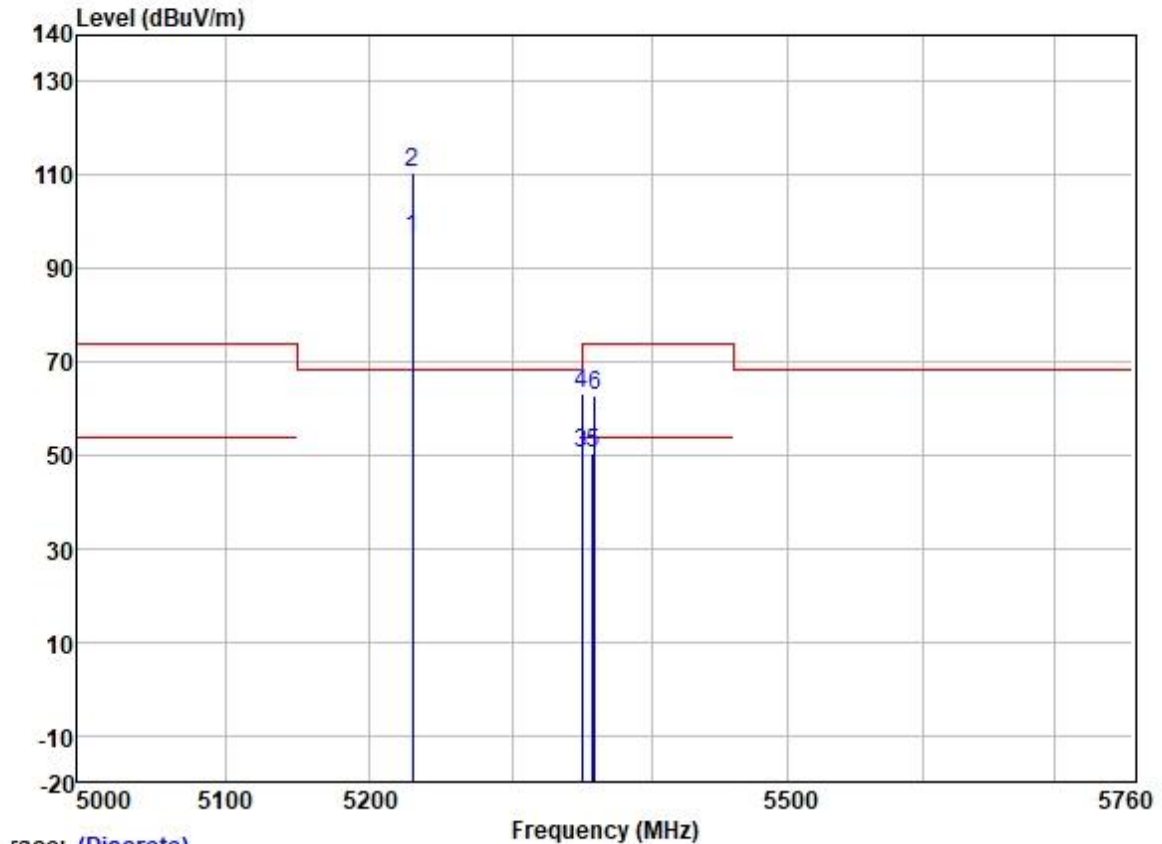
Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: High



race: (Discrete)

	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	5230.000	88.05	31.74	5.70	36.87	88.62	-----	-----	HORIZONTAL Average
2 *	5230.000	101.03	31.74	5.70	36.87	101.60	68.20	33.40	HORIZONTAL Peak
3	5350.020	49.02	31.77	6.05	36.88	49.96	54.00	-4.04	HORIZONTAL Average
4	5350.020	60.87	31.77	6.05	36.88	61.81	74.00	-12.19	HORIZONTAL Peak
5	5357.803	49.17	31.78	6.03	36.88	50.10	54.00	-3.90	HORIZONTAL Average
6	5359.451	61.52	31.78	6.03	36.88	62.45	74.00	-11.55	HORIZONTAL Peak

Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: High



race: (Discrete)

	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	5230.000	95.80	31.74	5.70	36.87	96.37	-----	-----	VERTICAL Average
2 *	5230.000	110.20	31.74	5.70	36.87	110.77	68.20	42.57	VERTICAL Peak
3	5350.020	49.29	31.77	6.05	36.88	50.23	54.00	-3.77	VERTICAL Average
4	5350.020	62.33	31.77	6.05	36.88	63.27	74.00	-10.73	VERTICAL Peak
5	5357.438	49.53	31.78	6.03	36.88	50.46	54.00	-3.54	VERTICAL Average
6	5358.901	61.94	31.78	6.03	36.88	62.87	74.00	-11.13	VERTICAL Peak

**7.8 Radiated Emissions (above 1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.209 &amp; 15.407(b)

Test Method: KDB 789033 D02 II G

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

\*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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



### 7.8.1 E.U.T. Operation

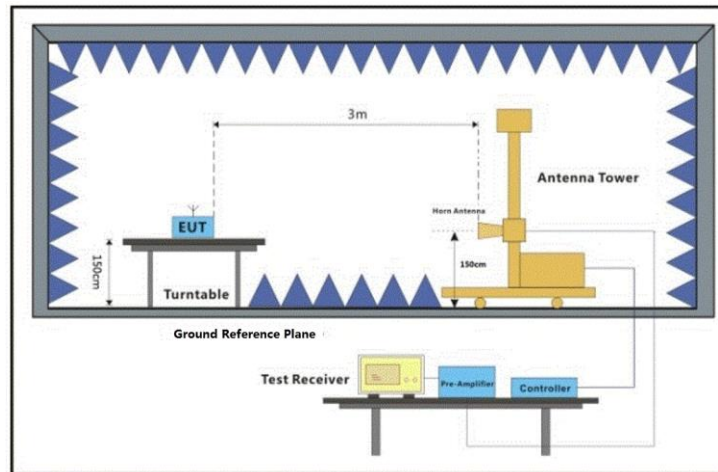
Operating Environment:

Temperature: 21.5 °C Humidity: 52.2 % RH Atmospheric Pressure: 1003 mbar

### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	36	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	37	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	38	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	39	Charge + TX mode(10MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Final test	40	Charge + TX mode(20MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Final test	41	Charge + TX mode(40MHz)_Keep the EUT in charging and continuously transmitting mode with modulation

### 7.8.3 Test Setup Diagram





#### 7.8.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- c. 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.
- d. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

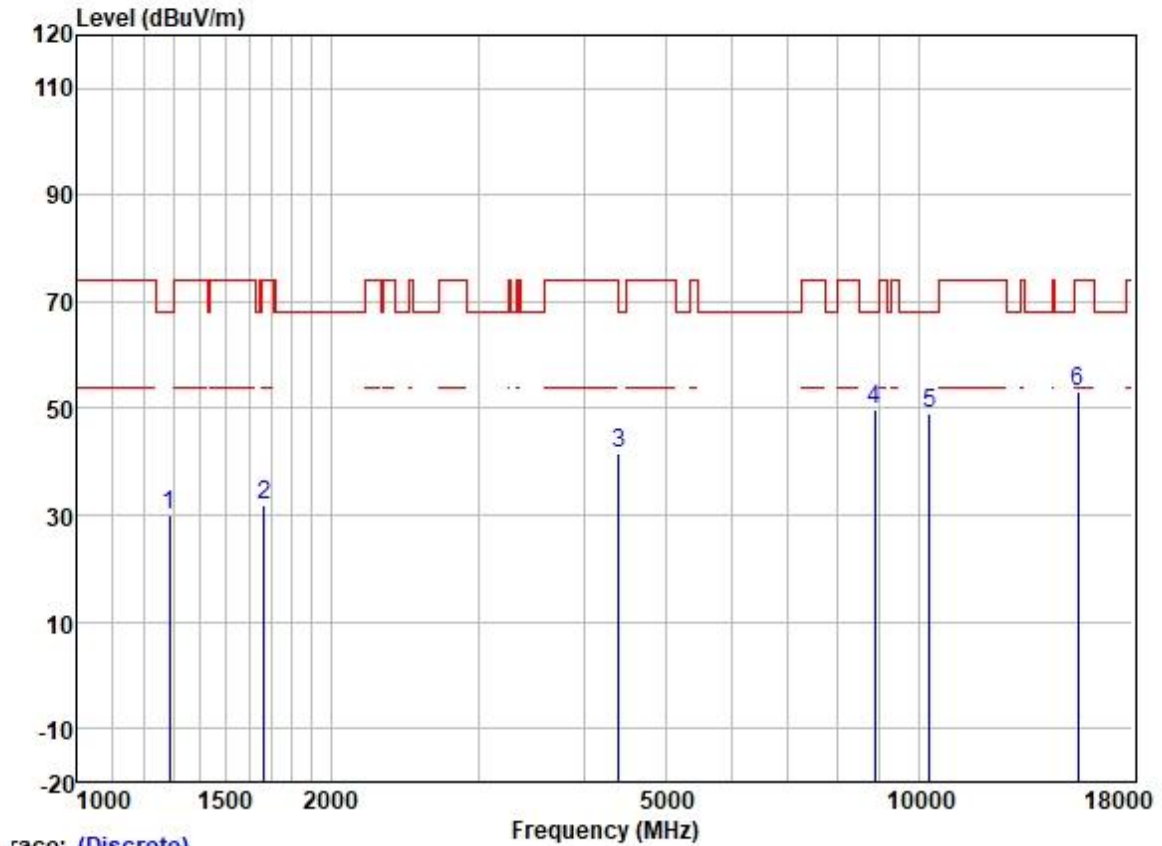
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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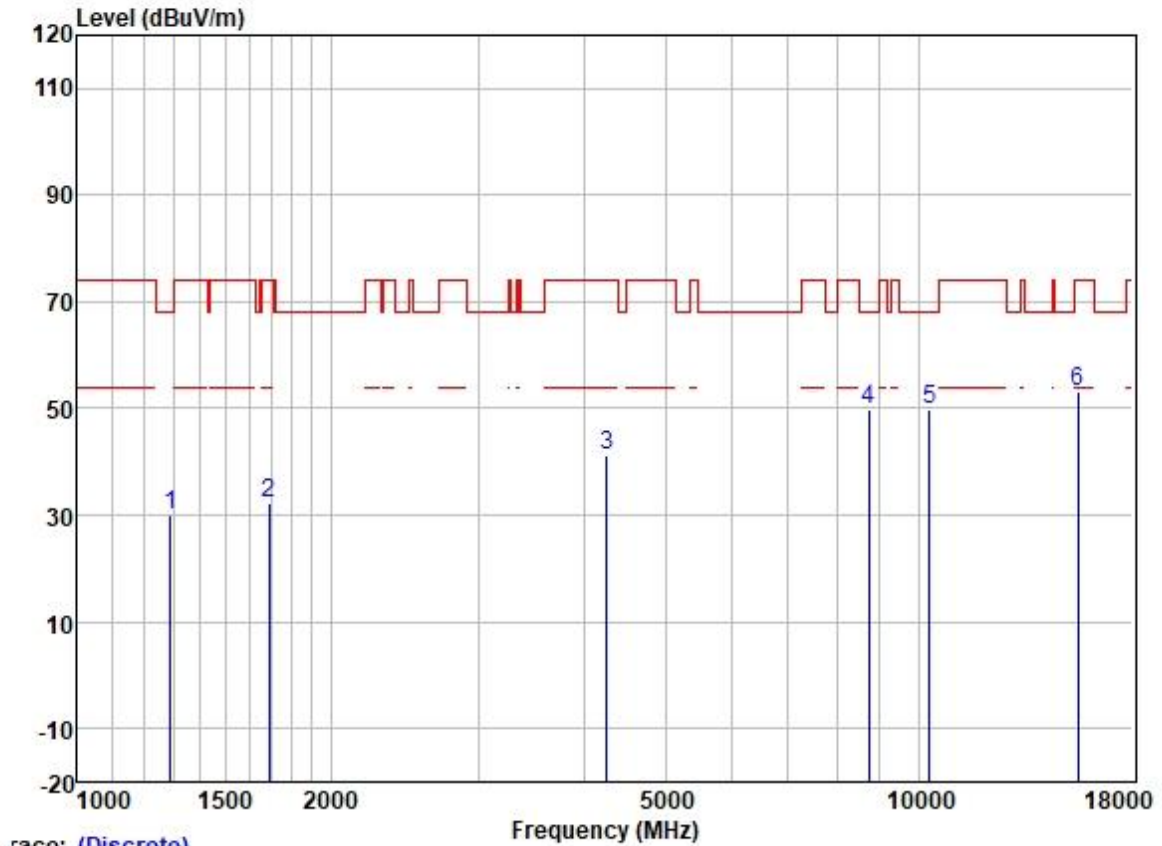
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

Test Mode: 39; Polarity: Horizontal; Modulation: OFDM; Channel: Low



	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	1285.904	40.58	25.16	2.53	38.33	29.94	68.20	-38.26	HORIZONTAL Peak
2	1667.951	41.16	25.66	2.80	37.91	31.71	74.00	-42.29	HORIZONTAL Peak
3	4405.090	42.99	30.68	4.70	36.81	41.56	68.20	-26.64	HORIZONTAL Peak
4	8866.062	42.46	37.36	7.38	37.53	49.67	68.20	-18.53	HORIZONTAL Peak
5	10314.000	40.16	39.16	7.22	37.37	49.17	68.20	-19.03	HORIZONTAL Peak
6	15471.000	39.48	39.10	9.88	35.38	53.08	74.00	-20.92	HORIZONTAL Peak

Test Mode: 39; Polarity: Vertical; Modulation: OFDM; Channel: Low

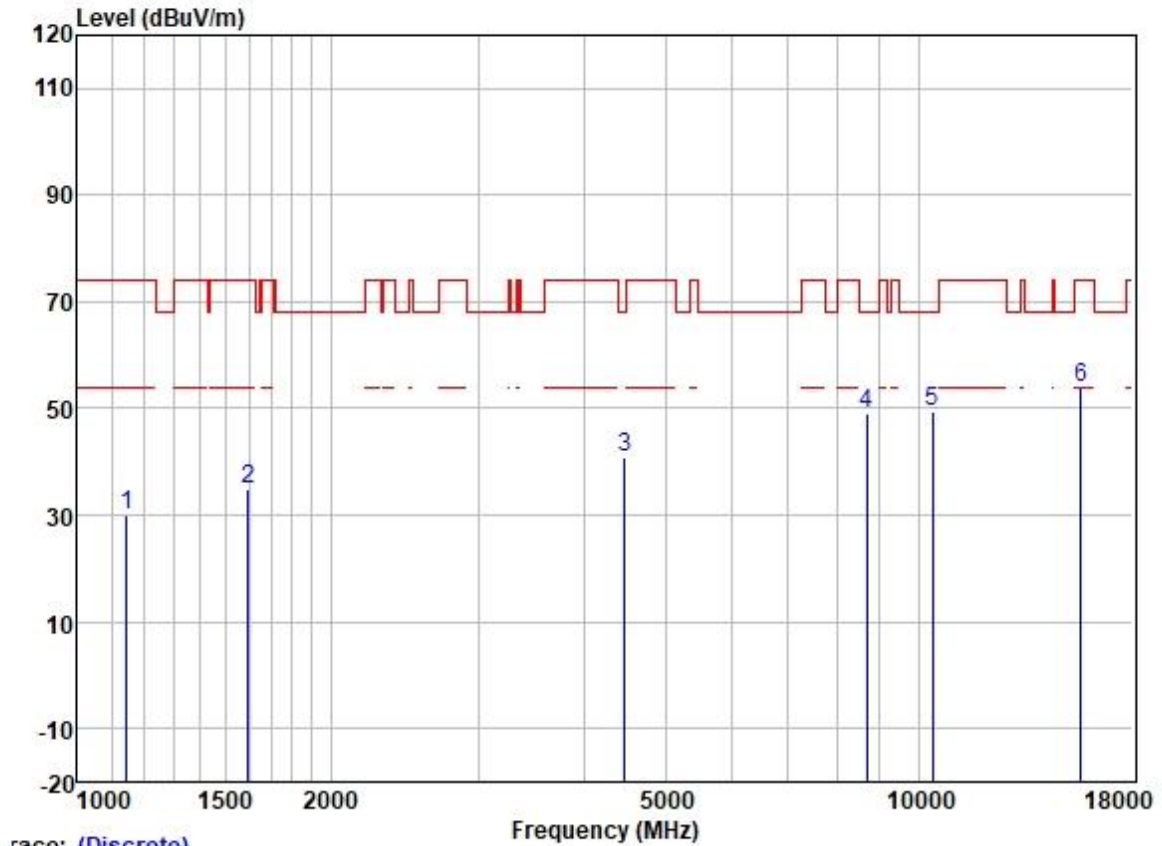


Trace: (Discrete)

	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	1289.627	40.46	25.17	2.55	38.31	29.87	68.20	-38.33	VERTICAL Peak
2	1692.231	41.64	25.70	2.80	37.89	32.25	74.00	-41.75	VERTICAL Peak
3	4254.921	43.10	30.34	4.62	36.81	41.25	74.00	-32.75	VERTICAL Peak
4	8738.852	43.04	37.31	7.13	37.54	49.94	68.20	-18.26	VERTICAL Peak
5	10314.000	40.86	39.16	7.22	37.37	49.87	68.20	-18.33	VERTICAL Peak
6	15471.000	39.75	39.10	9.88	35.38	53.35	74.00	-20.65	VERTICAL Peak



Test Mode: 39; Polarity: Horizontal; Modulation: OFDM; Channel: middle

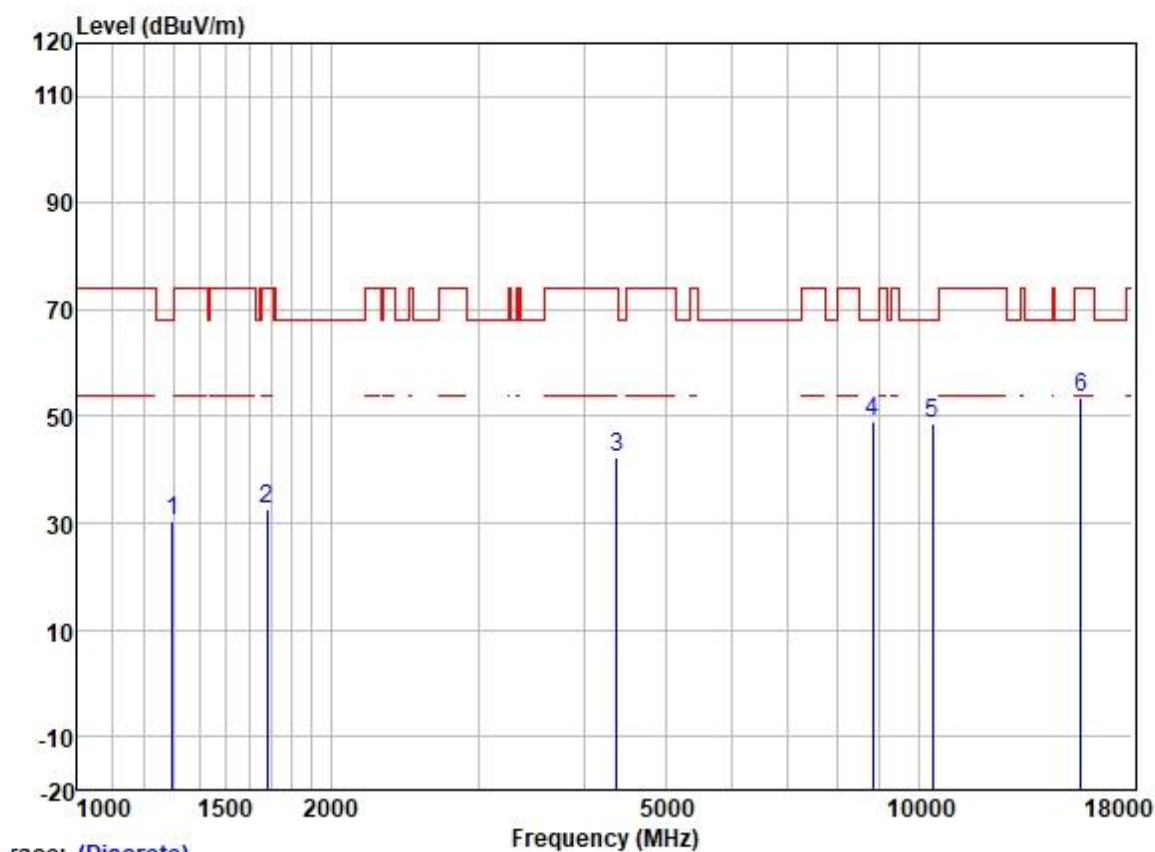


Trace: (Discrete)

	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	1145.507	41.46	24.48	2.32	38.42	29.84	74.00	-44.16	HORIZONTAL Peak
2	1597.181	44.57	25.58	2.80	37.98	34.97	74.00	-39.03	HORIZONTAL Peak
3	4469.214	42.08	30.77	4.93	36.81	40.97	68.20	-27.23	HORIZONTAL Peak
4	8688.480	42.39	37.28	7.02	37.55	49.14	68.20	-19.06	HORIZONTAL Peak
5	10400.000	40.04	39.33	7.32	37.36	49.33	68.20	-18.87	HORIZONTAL Peak
6	15600.000	40.29	38.99	9.88	35.39	53.77	74.00	-20.23	HORIZONTAL Peak

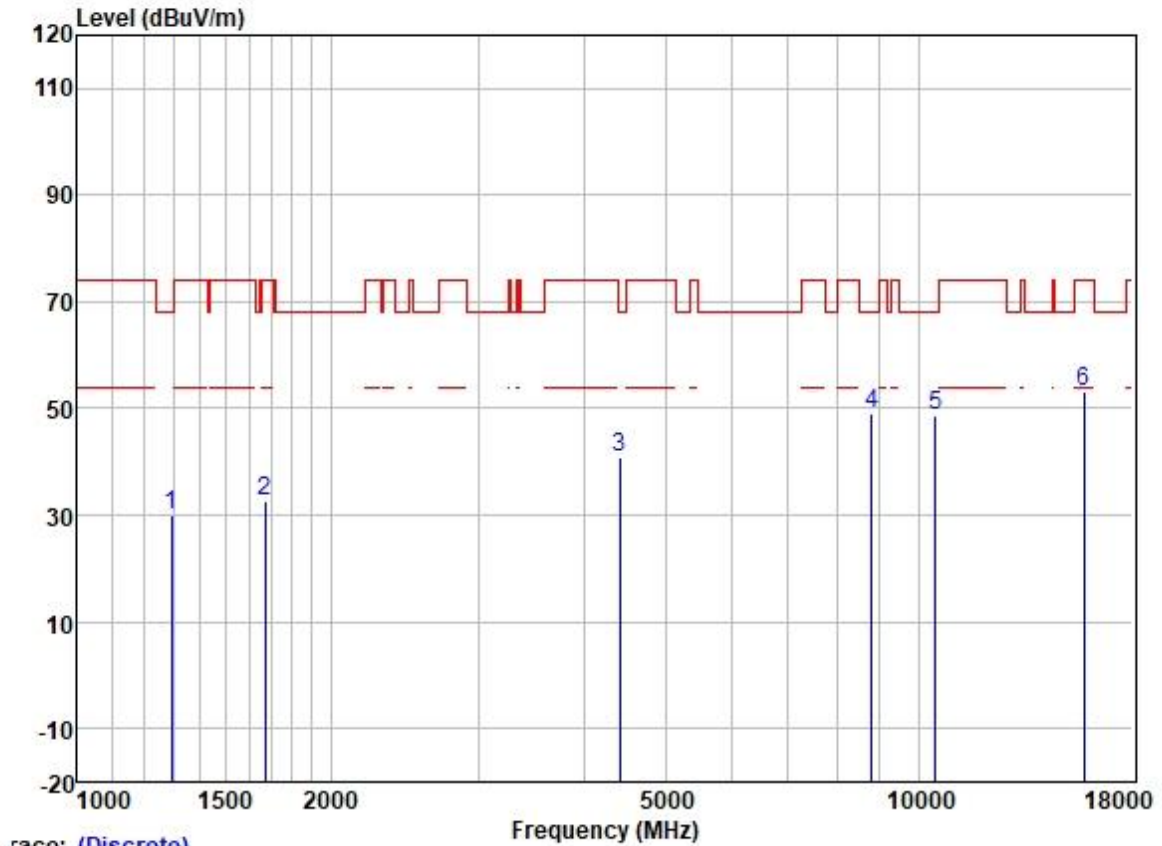


Test Mode: 39; Polarity: Vertical; Modulation: OFDM; Channel: middle



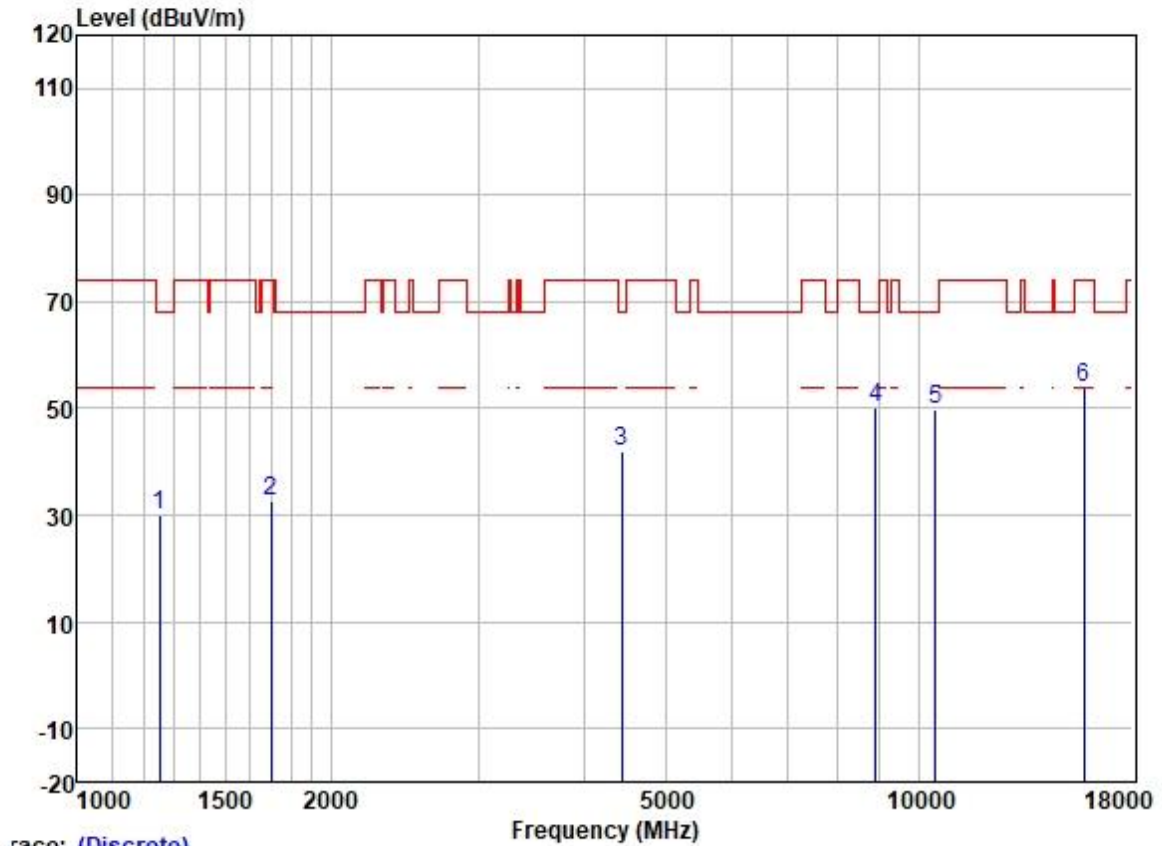
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1297.103	40.84	25.19	2.58	38.31	30.30	68.20	-37.90	VERTICAL Peak
2	1682.477	42.01	25.68	2.80	37.91	32.58	74.00	-41.42	VERTICAL Peak
3	4379.699	43.78	30.64	4.69	36.81	42.30	74.00	-31.70	VERTICAL Peak
4	8814.957	42.00	37.34	7.29	37.53	49.10	68.20	-19.10	VERTICAL Peak
5	10400.000	39.48	39.33	7.32	37.36	48.77	68.20	-19.43	VERTICAL Peak
6	15600.000	39.91	38.99	9.88	35.39	53.39	74.00	-20.61	VERTICAL Peak

Test Mode: 39; Polarity: Horizontal; Modulation: OFDM; Channel: High



		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	1293.359	40.64	25.18	2.57	38.31	30.08	68.20	-38.12	HORIZONTAL	Peak
2	1672.779	42.10	25.67	2.80	37.91	32.66	74.00	-41.34	HORIZONTAL	Peak
3	4417.841	42.37	30.70	4.74	36.81	41.00	68.20	-27.20	HORIZONTAL	Peak
4	8789.516	42.09	37.33	7.24	37.54	49.12	68.20	-19.08	HORIZONTAL	Peak
5	10480.000	39.35	39.46	7.40	37.36	48.85	68.20	-19.35	HORIZONTAL	Peak
6	15720.000	39.96	38.78	9.87	35.39	53.22	74.00	-20.78	HORIZONTAL	Peak

Test Mode: 39; Polarity: Vertical; Modulation: OFDM; Channel: High

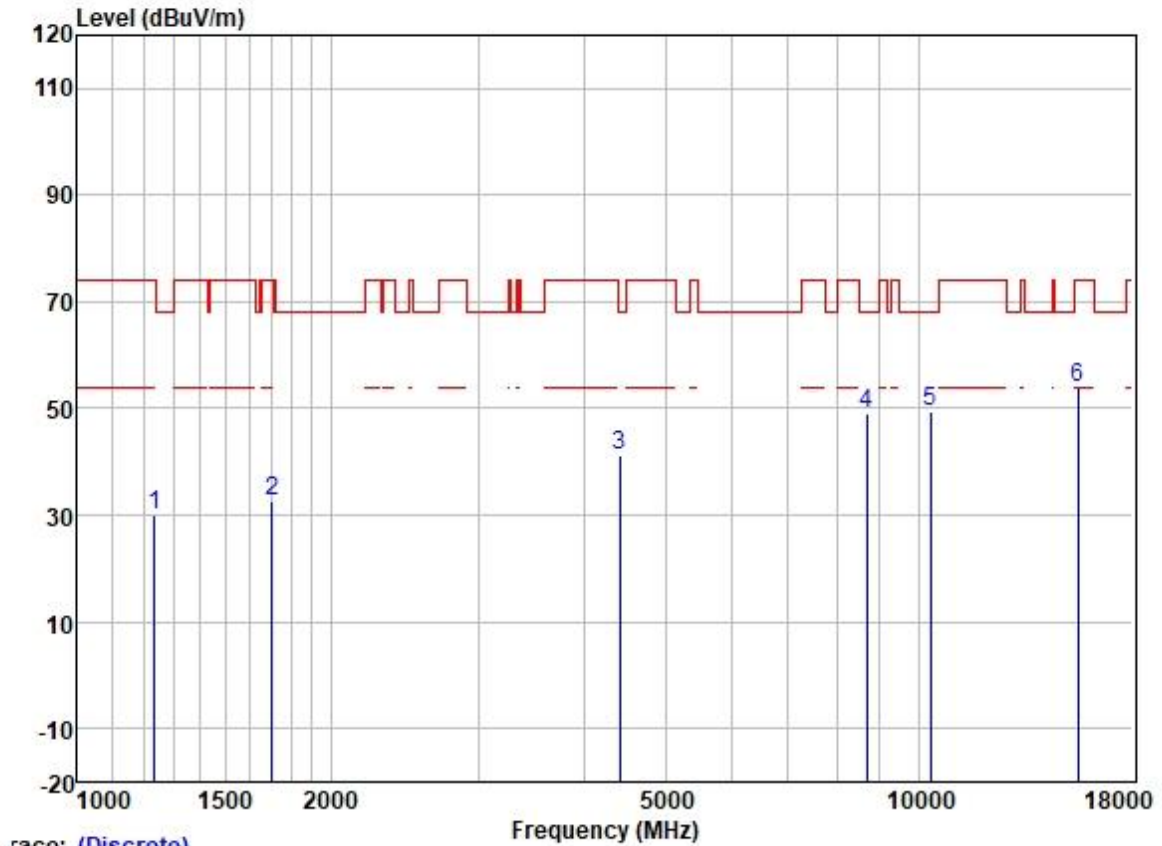


Trace: (Discrete)

	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	1252.885	41.17	25.03	2.36	38.35	30.21	68.20	-37.99	VERTICAL	Peak
2	1697.129	41.84	25.71	2.80	37.89	32.46	74.00	-41.54	VERTICAL	Peak
3	4443.453	43.06	30.73	4.83	36.81	41.81	68.20	-26.39	VERTICAL	Peak
4	8891.725	42.99	37.37	7.42	37.52	50.26	68.20	-17.94	VERTICAL	Peak
5	10480.000	40.30	39.46	7.40	37.36	49.80	68.20	-18.40	VERTICAL	Peak
6	15720.000	40.74	38.78	9.87	35.39	54.00	74.00	-20.00	VERTICAL	Peak



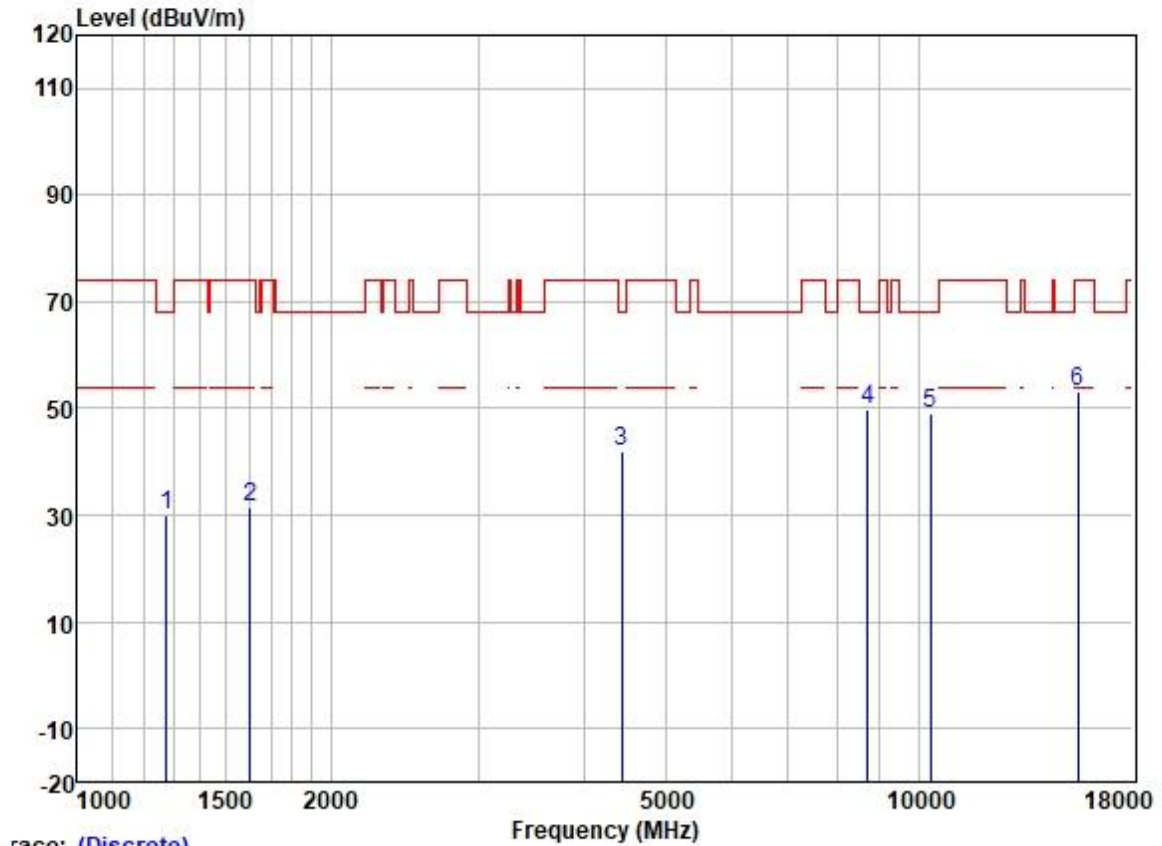
Test Mode: 40; Polarity: Horizontal; Modulation: OFDM; Channel: Low



		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	1234.909	41.05	24.93	2.30	38.37	29.91	74.00	-44.09	HORIZONTAL	Peak
2	1702.042	41.98	25.72	2.80	37.89	32.61	74.00	-41.39	HORIZONTAL	Peak
3	4417.841	42.45	30.70	4.74	36.81	41.08	68.20	-27.12	HORIZONTAL	Peak
4	8688.480	42.38	37.28	7.02	37.55	49.13	68.20	-19.07	HORIZONTAL	Peak
5	10322.000	40.36	39.22	7.25	37.37	49.46	68.20	-18.74	HORIZONTAL	Peak
6	15483.000	40.22	39.10	9.88	35.38	53.82	74.00	-20.18	HORIZONTAL	Peak



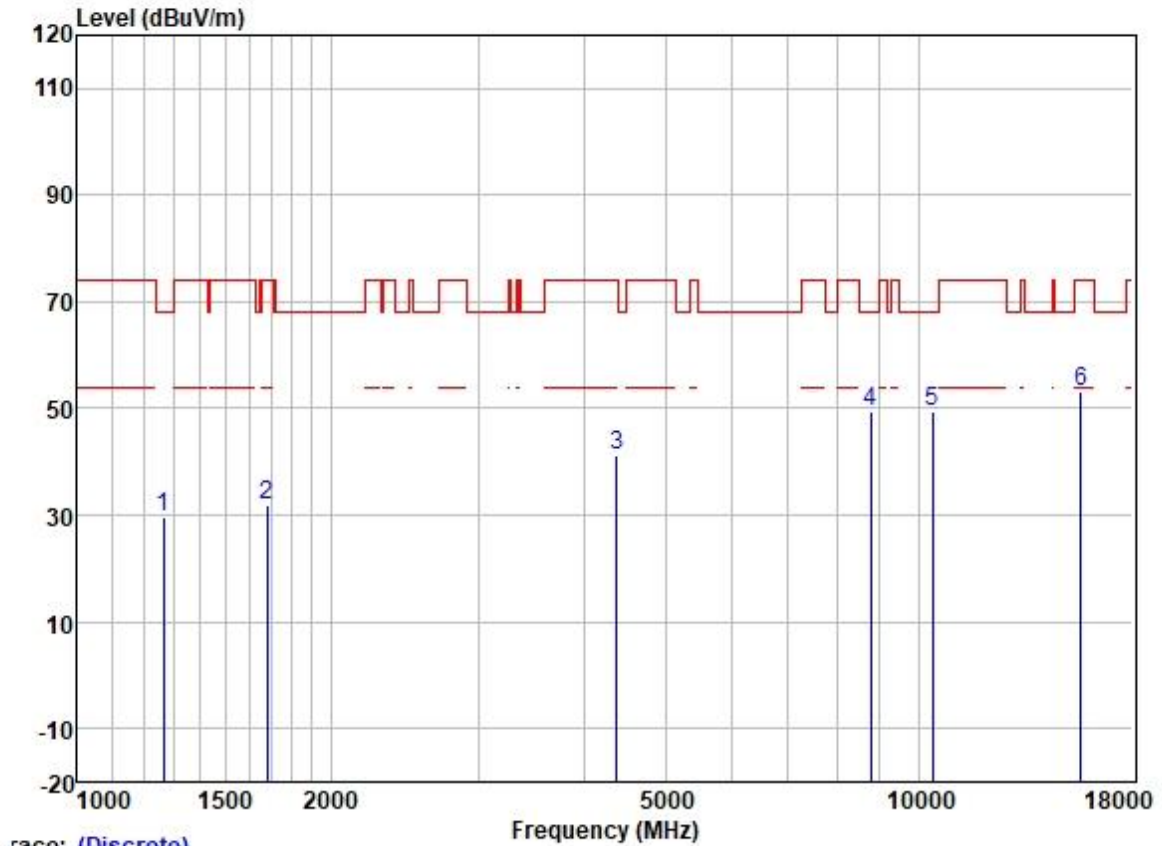
Test Mode: 40; Polarity: Vertical; Modulation: OFDM; Channel: Low



Trace: (Discrete)

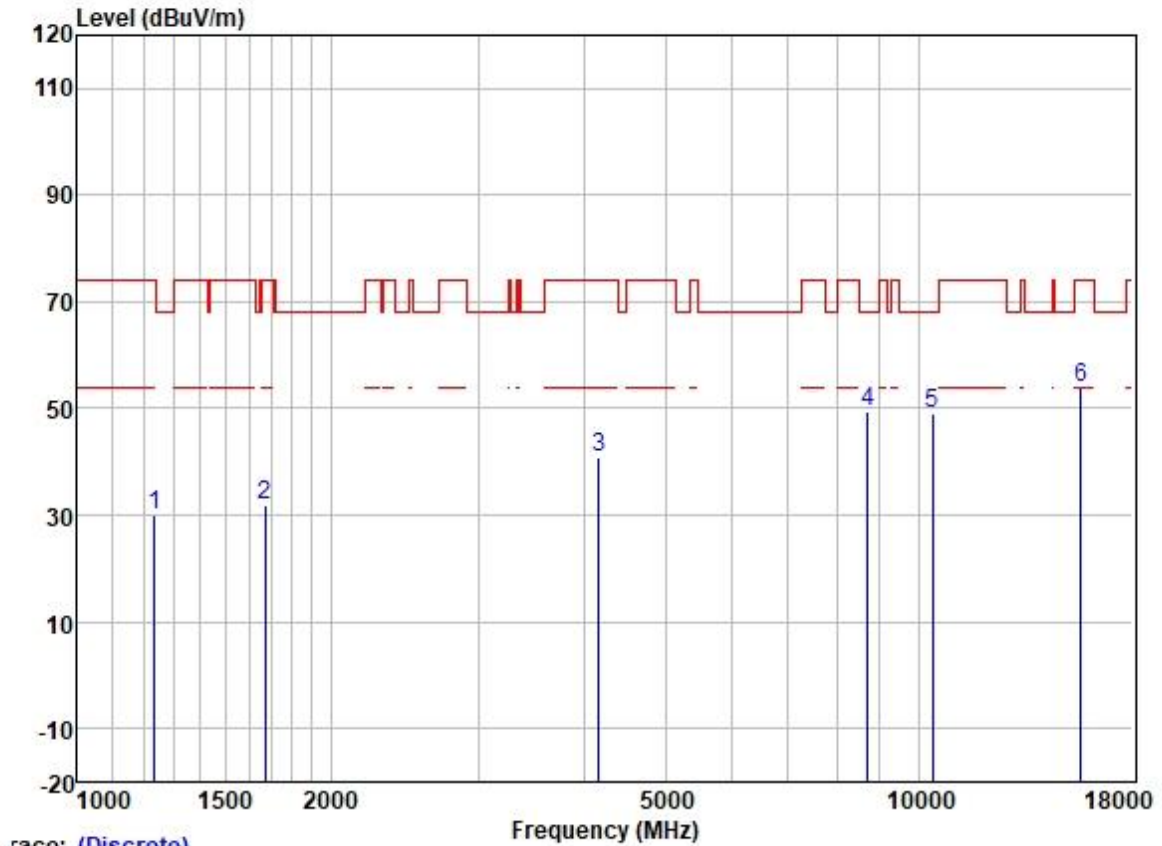
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1274.802	40.87	25.12	2.48	38.33	30.14	68.20	-38.06	VERTICAL Peak
2	1606.441	41.25	25.59	2.80	37.98	31.66	74.00	-42.34	VERTICAL Peak
3	4443.453	43.37	30.73	4.83	36.81	42.12	68.20	-26.08	VERTICAL Peak
4	8713.630	42.94	37.30	7.07	37.55	49.76	68.20	-18.44	VERTICAL Peak
5	10322.000	39.82	39.22	7.25	37.37	48.92	68.20	-19.28	VERTICAL Peak
6	15483.000	39.52	39.10	9.88	35.38	53.12	74.00	-20.88	VERTICAL Peak

Test Mode: 40; Polarity: Horizontal; Modulation: OFDM; 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	1267.454	40.43	25.10	2.44	38.33	29.64	68.20	-38.56	HORIZONTAL	Peak
2	1682.477	41.42	25.68	2.80	37.91	31.99	74.00	-42.01	HORIZONTAL	Peak
3	4379.699	42.66	30.64	4.69	36.81	41.18	74.00	-32.82	HORIZONTAL	Peak
4	8764.146	42.63	37.32	7.19	37.54	49.60	68.20	-18.60	HORIZONTAL	Peak
5	10400.000	40.15	39.33	7.32	37.36	49.44	68.20	-18.76	HORIZONTAL	Peak
6	15600.000	39.57	38.99	9.88	35.39	53.05	74.00	-20.95	HORIZONTAL	Peak

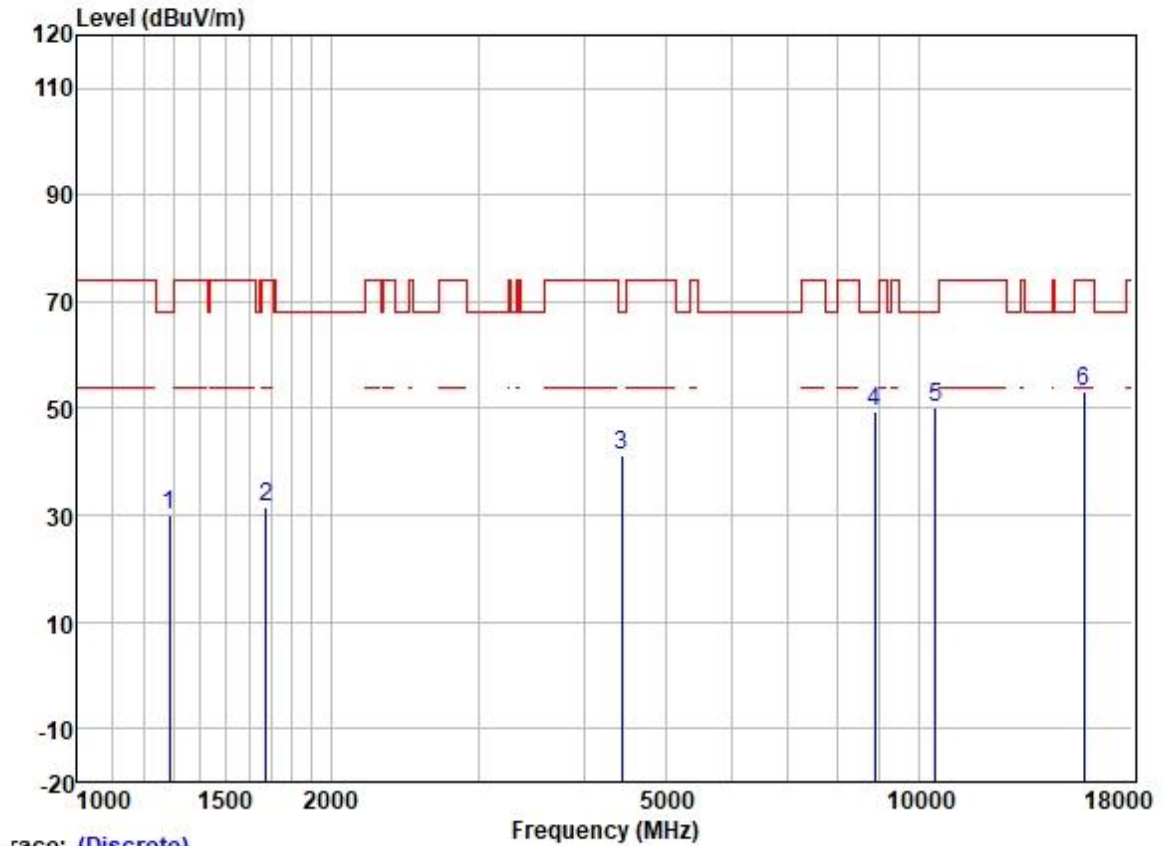
Test Mode: 40; Polarity: Vertical; Modulation: OFDM; Channel: middle



		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	1234.909	41.08	24.93	2.30	38.37	29.94	74.00	-44.06	VERTICAL	Peak
2	1672.779	41.26	25.67	2.80	37.91	31.82	74.00	-42.18	VERTICAL	Peak
3	4169.698	43.05	30.09	4.60	36.80	40.94	74.00	-33.06	VERTICAL	Peak
4	8713.630	42.48	37.30	7.07	37.55	49.30	68.20	-18.90	VERTICAL	Peak
5	10400.000	39.76	39.33	7.32	37.36	49.05	68.20	-19.15	VERTICAL	Peak
6	15600.000	40.33	38.99	9.88	35.39	53.81	74.00	-20.19	VERTICAL	Peak

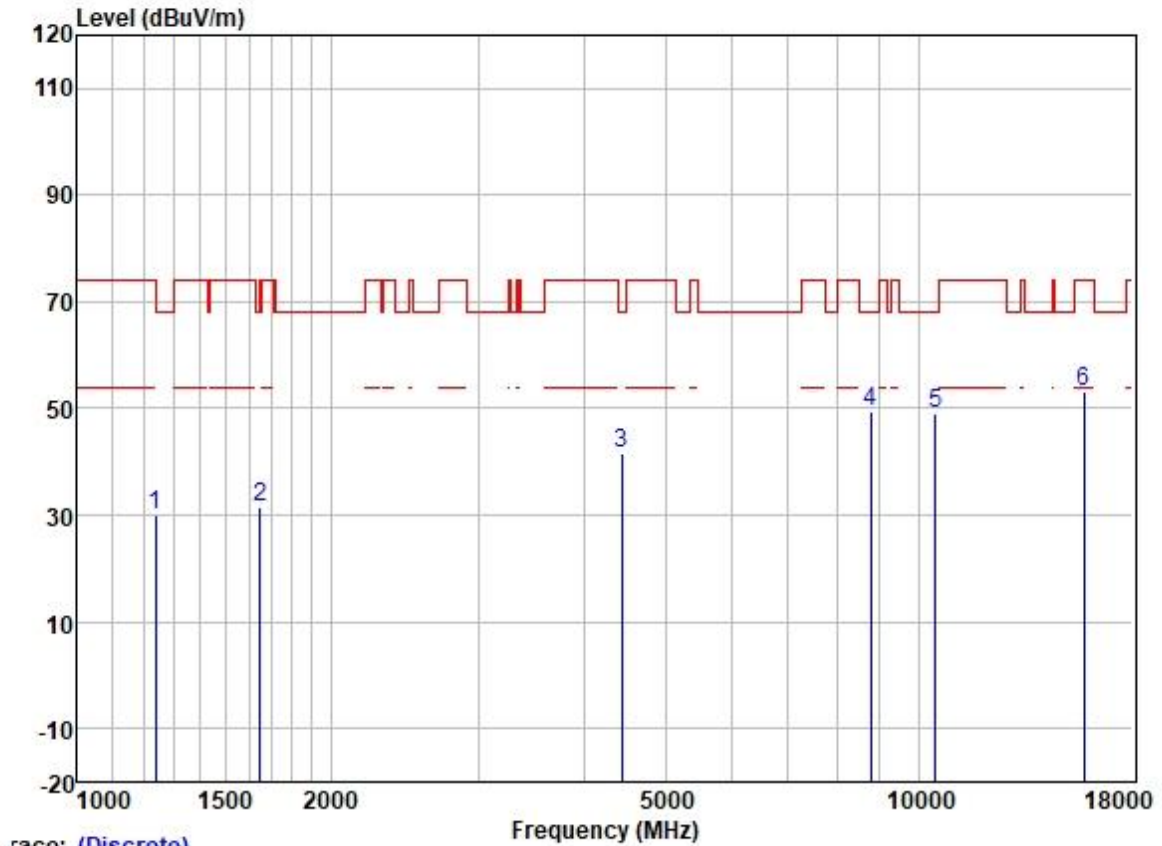


Test Mode: 40; Polarity: Horizontal; Modulation: OFDM; Channel: High



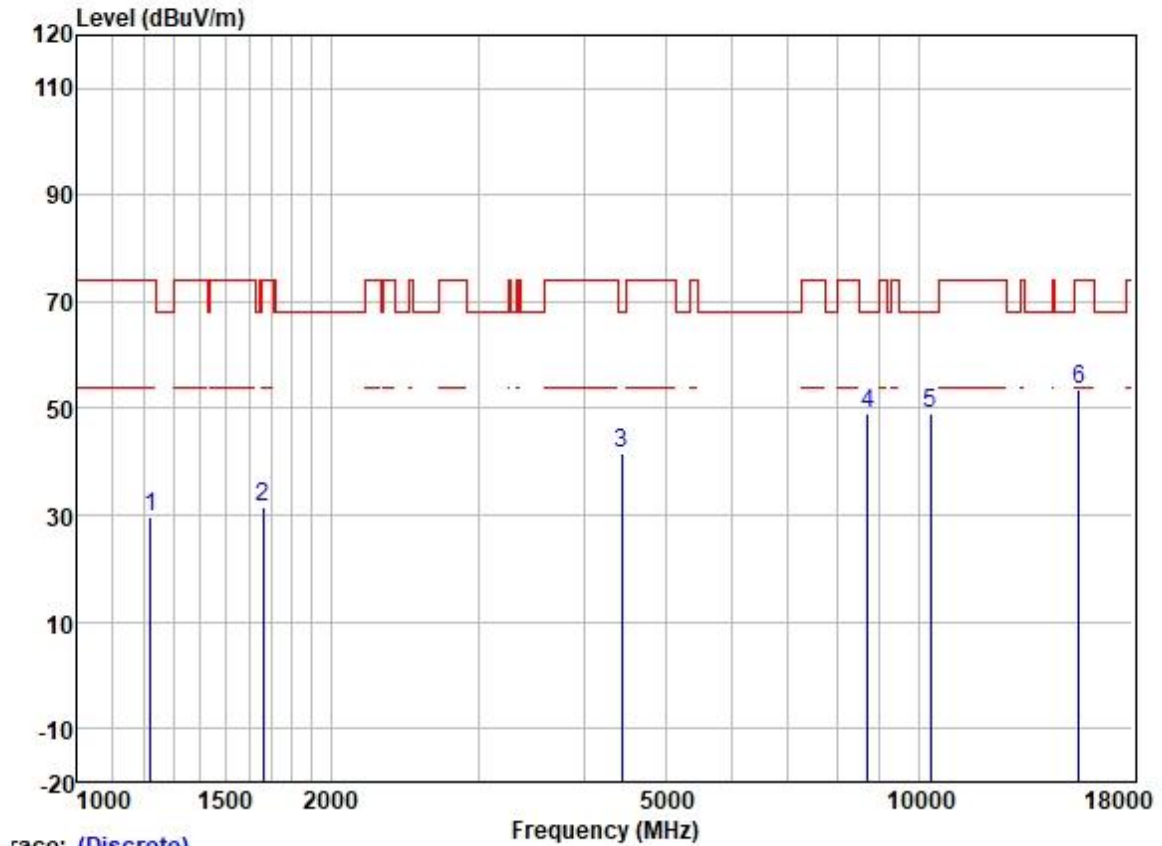
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1285.904	40.48	25.16	2.53	38.33	29.84	68.20	-38.36	HORIZONTAL	Peak
2	1677.621	41.11	25.68	2.80	37.91	31.68	74.00	-42.32	HORIZONTAL	Peak
3	4443.453	42.45	30.73	4.83	36.81	41.20	68.20	-27.00	HORIZONTAL	Peak
4	8866.062	42.10	37.36	7.38	37.53	49.31	68.20	-18.89	HORIZONTAL	Peak
5	10480.000	40.56	39.46	7.40	37.36	50.06	68.20	-18.14	HORIZONTAL	Peak
6	15720.000	39.75	38.78	9.87	35.39	53.01	74.00	-20.99	HORIZONTAL	Peak

Test Mode: 40; Polarity: Vertical; Modulation: OFDM; Channel: High



	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	1238.483	41.23	24.96	2.30	38.35	30.14	74.00	-43.86	VERTICAL Peak
2	1648.778	41.16	25.63	2.80	37.93	31.66	68.20	-36.54	VERTICAL Peak
3	4443.453	42.76	30.73	4.83	36.81	41.51	68.20	-26.69	VERTICAL Peak
4	8764.146	42.49	37.32	7.19	37.54	49.46	68.20	-18.74	VERTICAL Peak
5	10480.000	39.42	39.46	7.40	37.36	48.92	68.20	-19.28	VERTICAL Peak
6	15720.000	40.00	38.78	9.87	35.39	53.26	74.00	-20.74	VERTICAL Peak

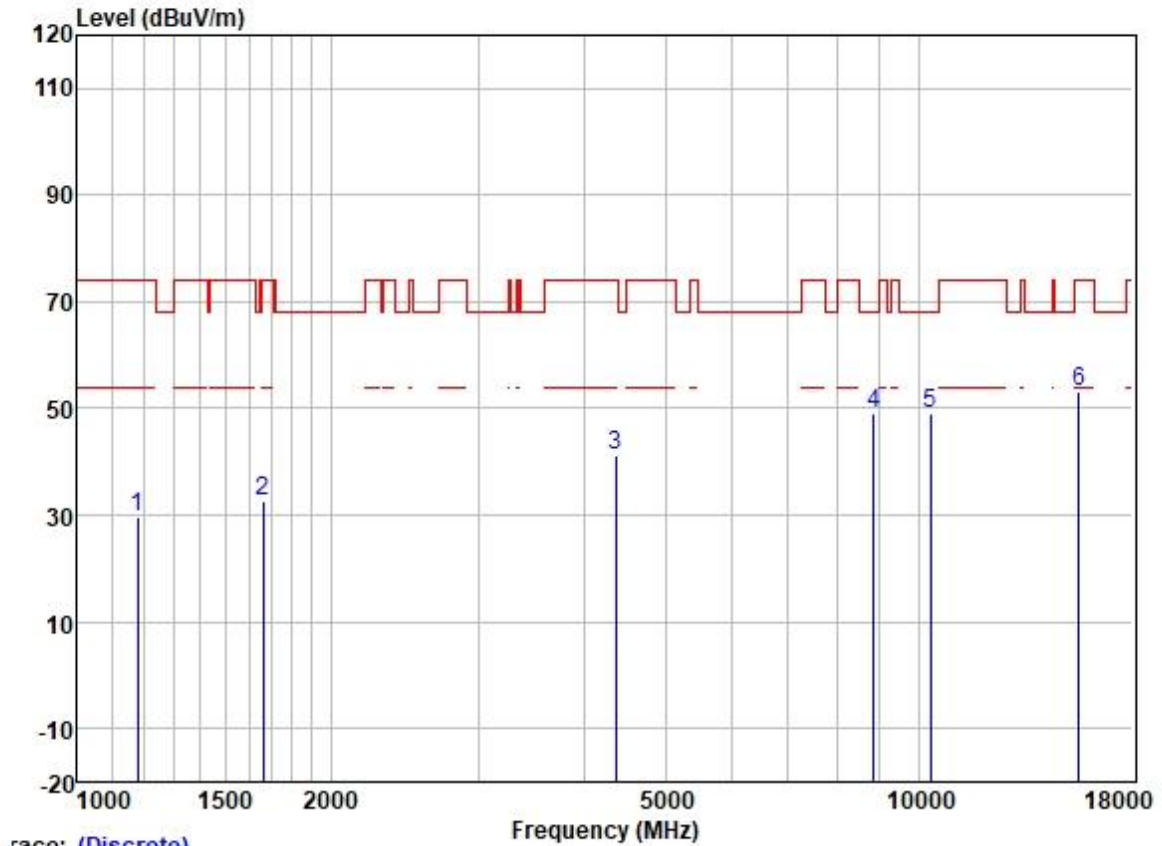
Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: Low



	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	1220.714	41.01	24.82	2.32	38.37	29.78	74.00	-44.22	HORIZONTAL	Peak
2	1663.137	40.99	25.65	2.80	37.91	31.53	74.00	-42.47	HORIZONTAL	Peak
3	4443.453	42.78	30.73	4.83	36.81	41.53	68.20	-26.67	HORIZONTAL	Peak
4	8713.630	42.40	37.30	7.07	37.55	49.22	68.20	-18.98	HORIZONTAL	Peak
5	10340.000	39.85	39.22	7.25	37.37	48.95	68.20	-19.25	HORIZONTAL	Peak
6	15510.000	40.05	39.10	9.88	35.38	53.65	74.00	-20.35	HORIZONTAL	Peak

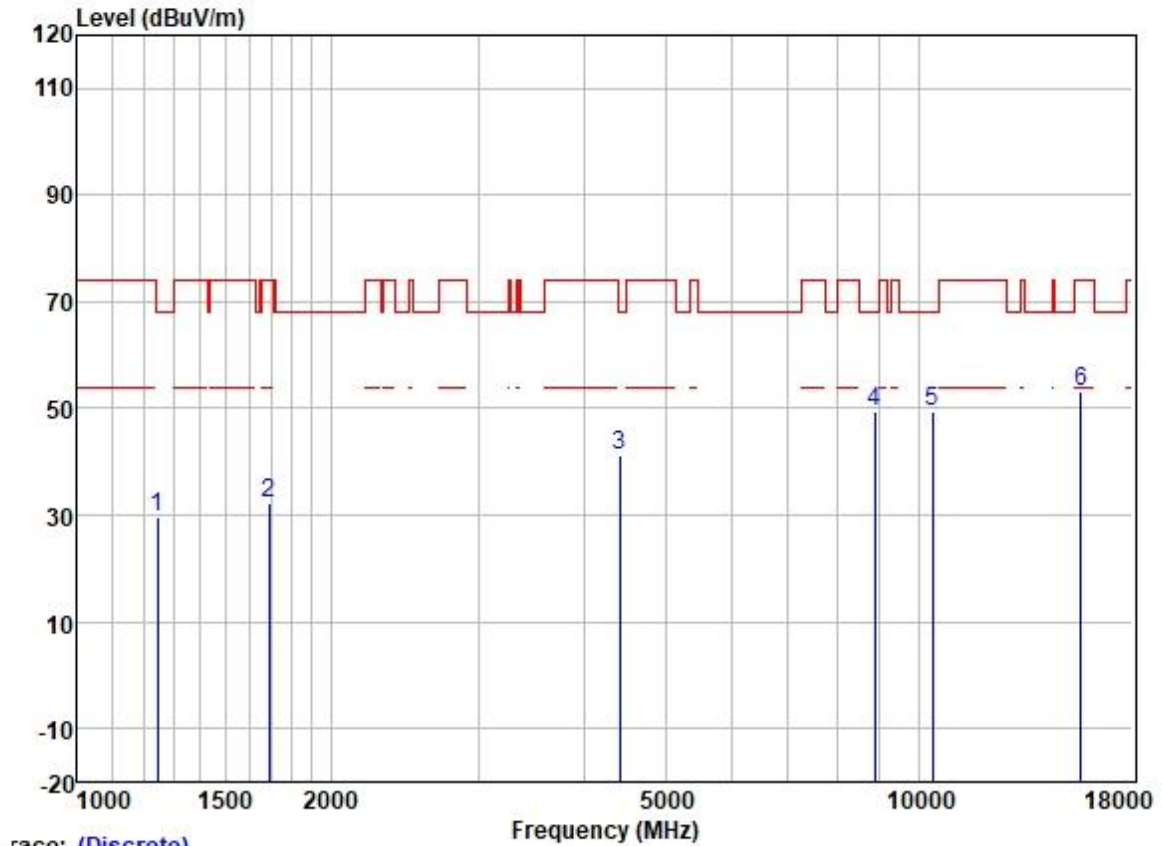


Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: Low



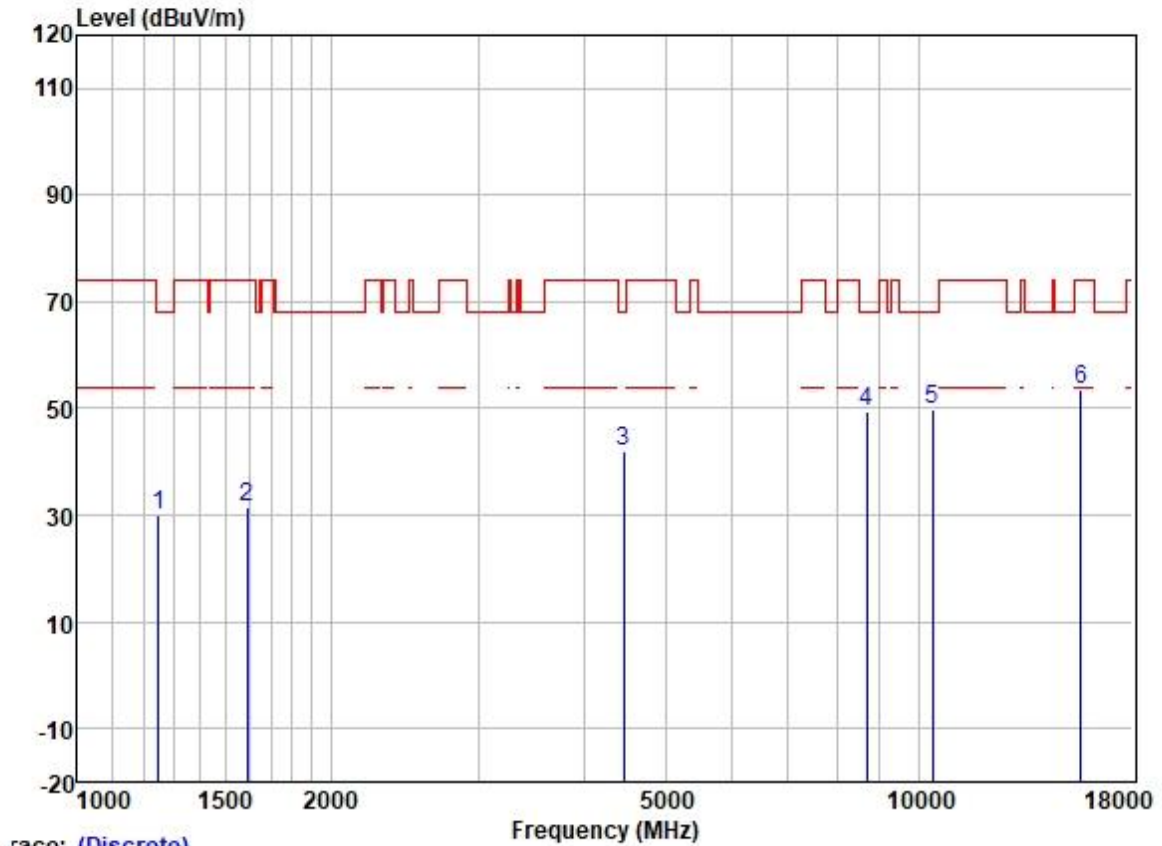
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1179.100	41.02	24.59	2.38	38.40	29.59	74.00	-44.41	VERTICAL	Peak
2	1663.137	42.25	25.65	2.80	37.91	32.79	74.00	-41.21	VERTICAL	Peak
3	4367.058	42.70	30.62	4.68	36.81	41.19	74.00	-32.81	VERTICAL	Peak
4	8840.473	41.83	37.35	7.34	37.53	48.99	68.20	-19.21	VERTICAL	Peak
5	10340.000	39.99	39.22	7.25	37.37	49.09	68.20	-19.11	VERTICAL	Peak
6	15510.000	39.55	39.10	9.88	35.38	53.15	74.00	-20.85	VERTICAL	Peak

Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: middle



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1245.663	40.68	25.00	2.33	38.35	29.66	68.20	-38.54	HORIZONTAL Peak
2	1692.231	41.77	25.70	2.80	37.89	32.38	74.00	-41.62	HORIZONTAL Peak
3	4417.841	42.60	30.70	4.74	36.81	41.23	68.20	-26.97	HORIZONTAL Peak
4	8866.062	42.10	37.36	7.38	37.53	49.31	68.20	-18.89	HORIZONTAL Peak
5	10400.000	39.97	39.33	7.32	37.36	49.26	68.20	-18.94	HORIZONTAL Peak
6	15600.000	39.84	38.99	9.88	35.39	53.32	74.00	-20.68	HORIZONTAL Peak

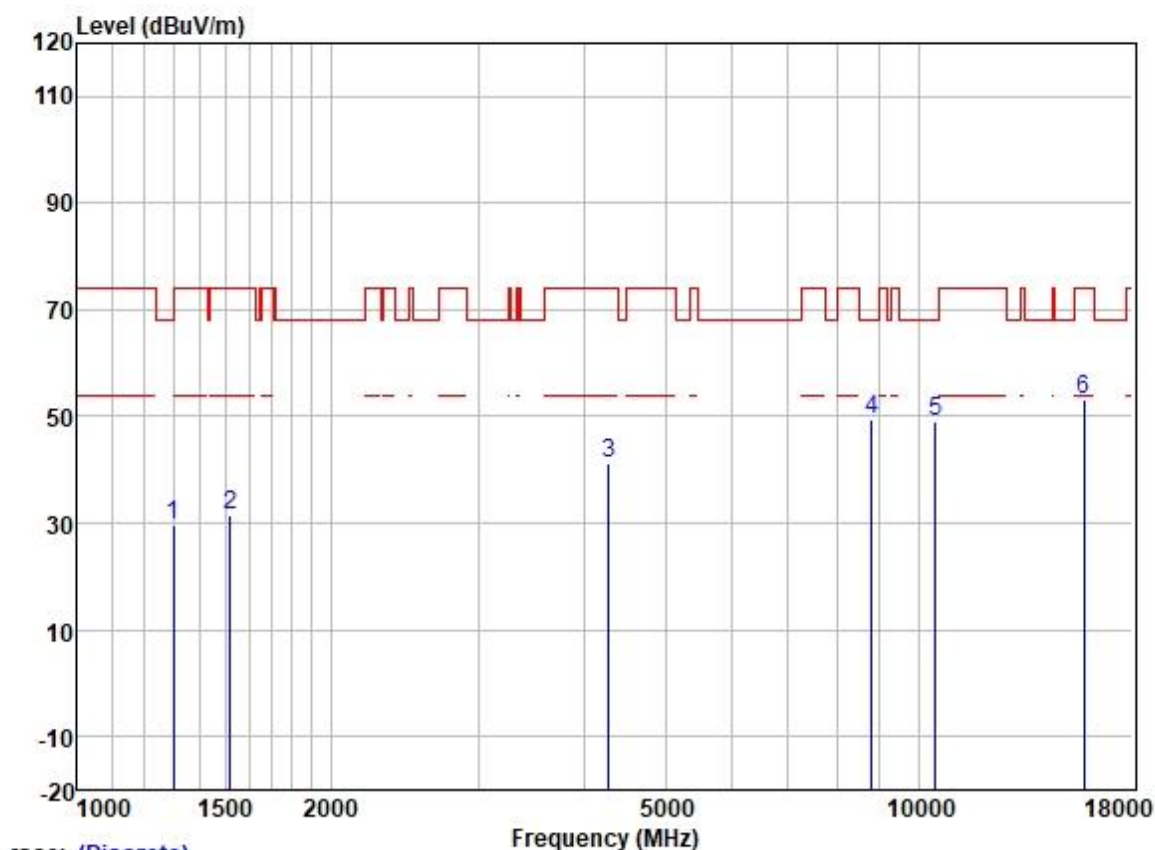
Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: middle



	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	1249.269	40.83	25.02	2.34	38.35	29.84	68.20	-38.36	VERTICAL Peak
2	1592.571	41.02	25.57	2.80	37.98	31.41	74.00	-42.59	VERTICAL Peak
3	4456.315	43.23	30.75	4.88	36.81	42.05	68.20	-26.15	VERTICAL Peak
4	8688.480	42.74	37.28	7.02	37.55	49.49	68.20	-18.71	VERTICAL Peak
5	10400.000	40.63	39.33	7.32	37.36	49.92	68.20	-18.28	VERTICAL Peak
6	15600.000	39.91	38.99	9.88	35.39	53.39	74.00	-20.61	VERTICAL Peak

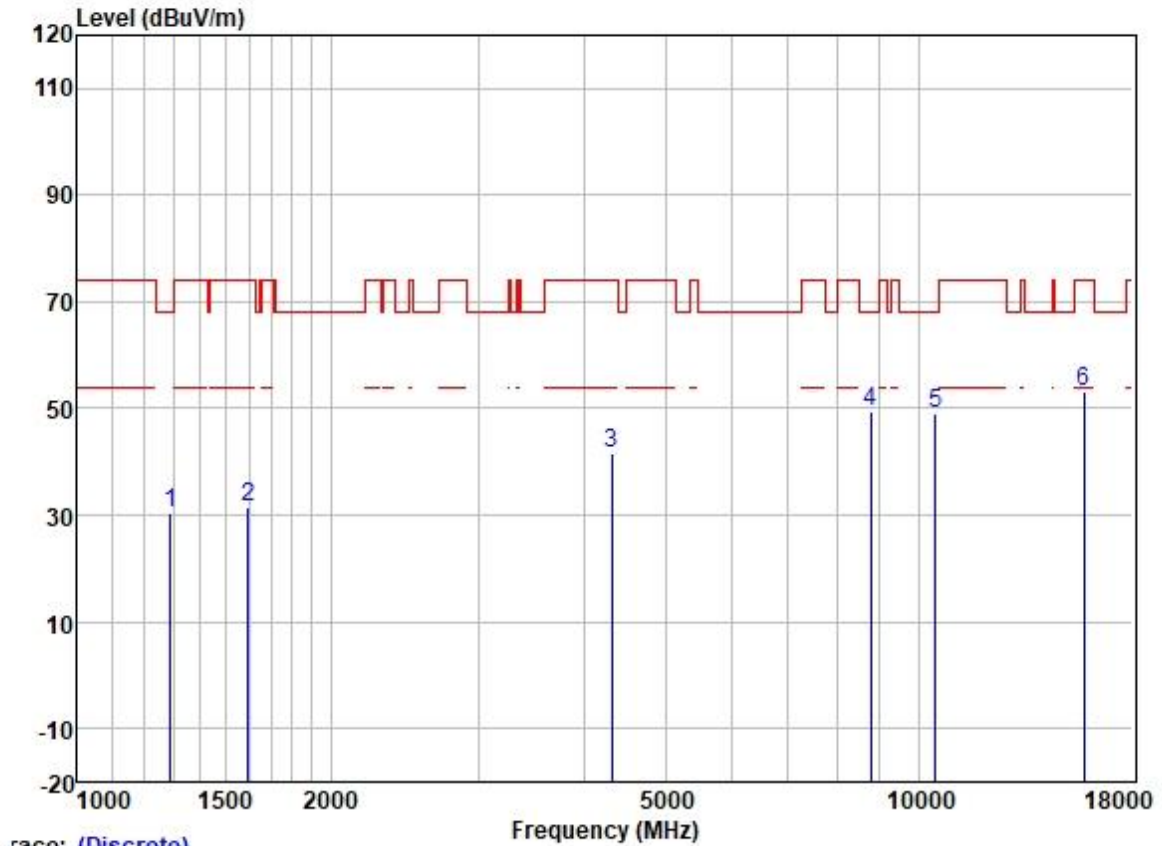


Test Mode: 41; Polarity: Horizontal; Modulation: OFDM; Channel: High



		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	1300.858	40.18	25.20	2.60	38.31	29.67	74.00	-44.33	HORIZONTAL	Peak
2	1520.598	41.34	25.51	2.80	38.07	31.58	74.00	-42.42	HORIZONTAL	Peak
3	4279.589	42.86	30.42	4.63	36.81	41.10	74.00	-32.90	HORIZONTAL	Peak
4	8789.516	42.23	37.33	7.24	37.54	49.26	68.20	-18.94	HORIZONTAL	Peak
5	10480.000	39.75	39.46	7.40	37.36	49.25	68.20	-18.95	HORIZONTAL	Peak
6	15720.000	40.01	38.78	9.87	35.39	53.27	74.00	-20.73	HORIZONTAL	Peak

Test Mode: 41; Polarity: Vertical; Modulation: OFDM; Channel: High



Trace: (Discrete)

	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	dB		
1	1289.627	41.00	25.17	2.55	38.31	30.41	68.20	-37.79	VERTICAL Peak
2	1597.181	41.04	25.58	2.80	37.98	31.44	74.00	-42.56	VERTICAL Peak
3	4316.859	43.09	30.51	4.66	36.81	41.45	74.00	-32.55	VERTICAL Peak
4	8764.146	42.54	37.32	7.19	37.54	49.51	68.20	-18.69	VERTICAL Peak
5	10480.000	39.44	39.46	7.40	37.36	48.94	68.20	-19.26	VERTICAL Peak
6	15720.000	40.08	38.78	9.87	35.39	53.34	74.00	-20.66	VERTICAL Peak

**7.9 Radiated Emissions (below 1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.209 &amp; 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 10m

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

\*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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.



### 7.9.1 E.U.T. Operation

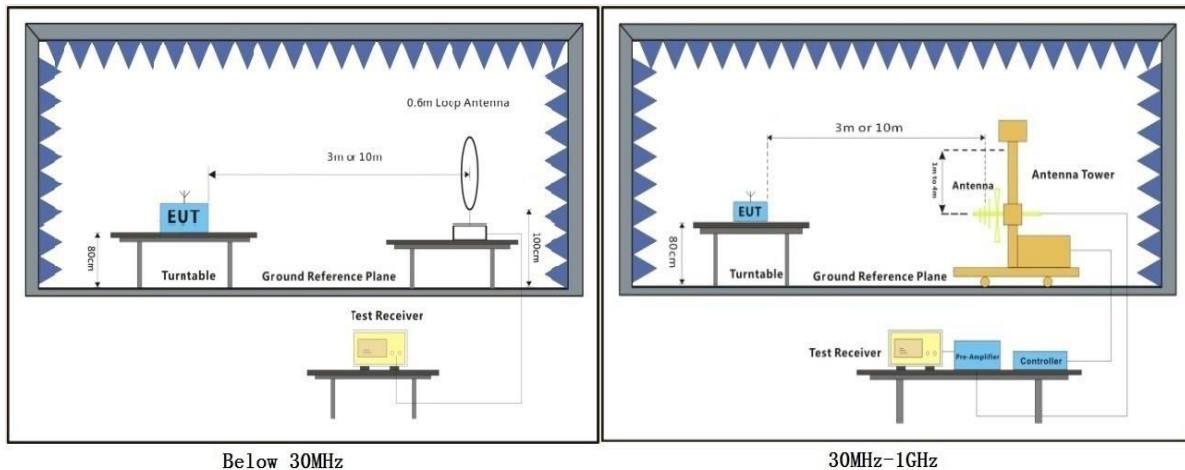
Operating Environment:

Temperature: 22.4 °C Humidity: 51.9 % RH Atmospheric Pressure: 1003 mbar

### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	36	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	37	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	38	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	39	Charge + TX mode(10MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Pre-scan	40	Charge + TX mode(20MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Pre-scan	41	Charge + TX mode(40MHz)_Keep the EUT in charging and continuously transmitting mode with modulation

### 7.9.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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#### 7.9.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

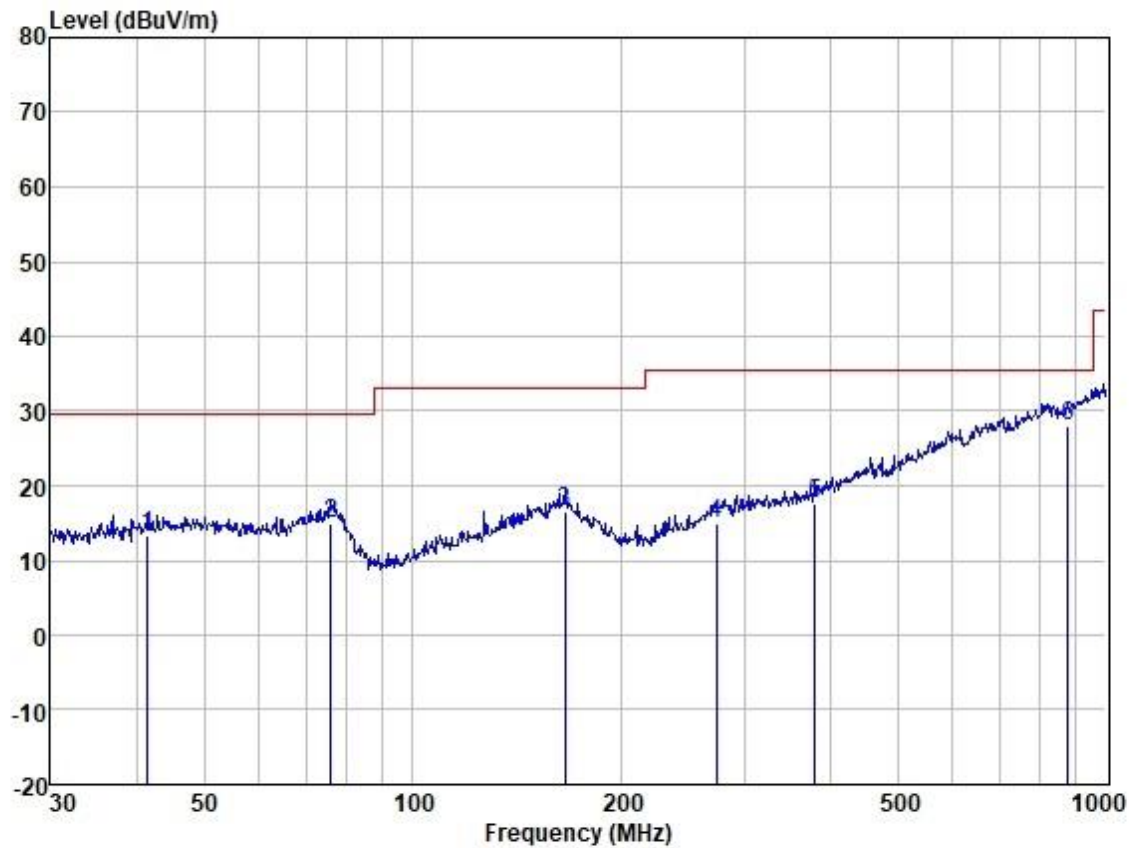
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low. The points marked 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.



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Test Mode: 39; Polarity: Horizontal; Modulation: OFDM; Channel: middle

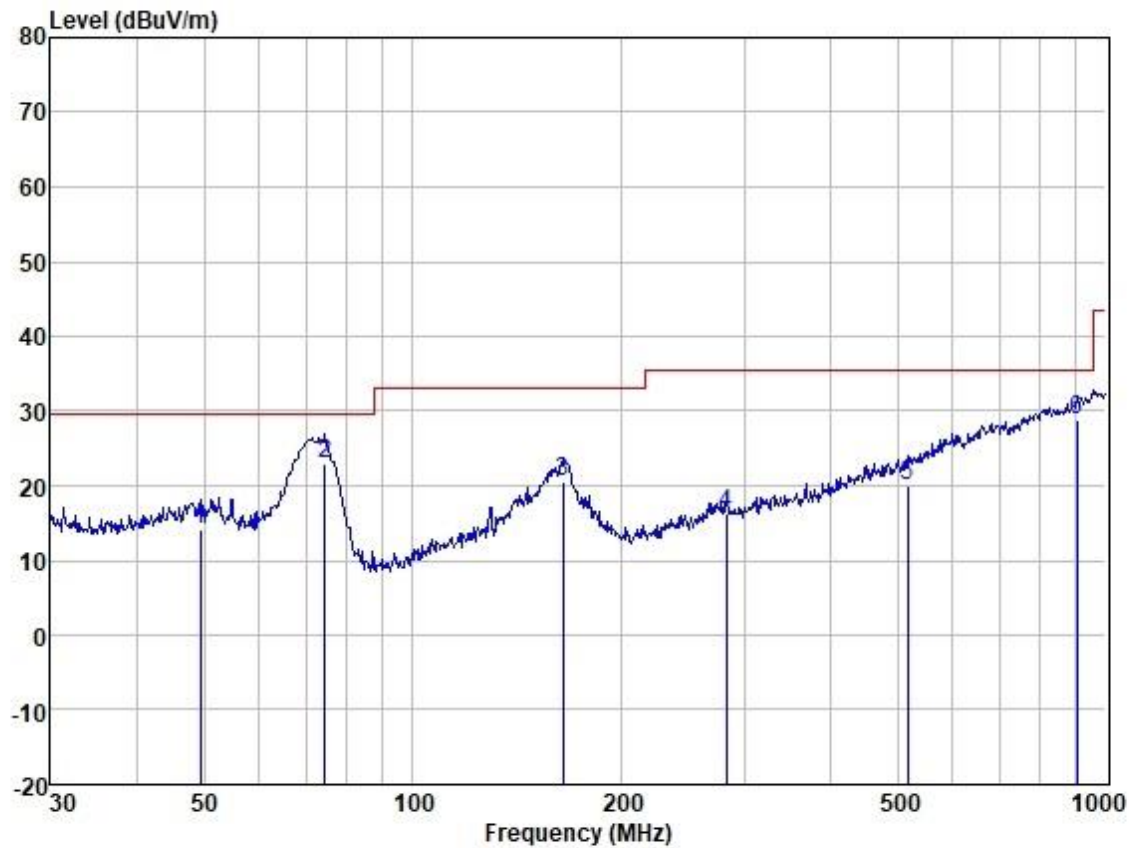


Site : SGS  
Job :  
Model :  
Power :  
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	41.422	26.15	13.66	1.11	27.61	13.31	29.50	-16.19	HORIZONTAL	QP
2	76.244	31.30	9.88	1.45	27.60	15.03	29.50	-14.47	HORIZONTAL	QP
3	165.487	27.97	13.41	2.37	27.34	16.41	33.10	-16.69	HORIZONTAL	QP
4	274.194	26.22	12.77	3.07	27.21	14.85	35.60	-20.75	HORIZONTAL	QP
5	379.914	26.43	15.13	3.84	27.92	17.48	35.60	-18.12	HORIZONTAL	QP
6	881.407	26.80	22.73	6.79	28.25	28.07	35.60	-7.53	HORIZONTAL	QP



Test Mode: 39; Polarity: Vertical; Modulation: OFDM; Channel: middle



Site : SGS  
Job :  
Model :  
Power :  
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	49.359	26.59	13.98	1.14	27.60	14.11	29.50	-15.39	VERTICAL	QP
2	74.657	38.61	10.43	1.45	27.60	22.89	29.50	-6.61	VERTICAL	QP
3	164.330	32.02	13.48	2.37	27.35	20.52	33.10	-12.58	VERTICAL	QP
4	282.985	27.26	13.01	3.10	27.21	16.16	35.60	-19.44	VERTICAL	QP
5	517.248	25.77	18.40	4.51	28.62	20.06	35.60	-15.54	VERTICAL	QP
6	906.482	26.74	23.18	6.96	28.19	28.69	35.60	-6.91	VERTICAL	QP

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m;

L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m

D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
41.422	13.31	4.63	15.43	23.77	40	-16.23	H
76.244	15.03	5.64	18.81	25.49	40	-14.51	H
165.487	16.41	6.61	22.05	26.87	43.5	-16.63	H
274.194	14.85	5.53	18.42	25.31	46	-20.69	H
379.914	17.48	7.48	24.94	27.94	46	-18.06	H
881.407	28.07	25.32	84.41	38.53	46	-7.47	H
49.359	14.11	5.08	16.92	24.57	40	-15.43	V
74.657	22.89	13.95	46.49	33.35	40	-6.65	V
164.330	20.52	10.62	35.39	30.98	43.5	-12.52	V
282.985	16.16	6.43	21.42	26.62	46	-19.38	V
517.248	20.06	10.07	33.56	30.52	46	-15.48	V
906.482	28.69	27.20	90.65	39.15	46	-6.85	V

## 7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)  
Test Method: ANSI C63.10 (2013) Section 6.8

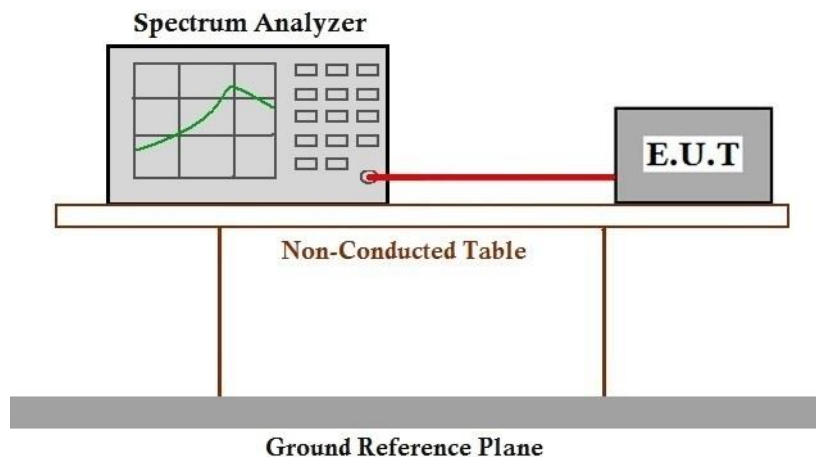
### 7.10.1 E.U.T. Operation

Operating Environment:  
Temperature: 21.8 °C Humidity: 52.3 % RH Atmospheric Pressure: 1003 mbar

### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	36	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	37	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	38	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation

### 7.10.3 Test Setup Diagram



### 7.10.4 Measurement Procedure and Data

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.



## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2208001095AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2208001095AT

## 10 Appendix

### SISO mode

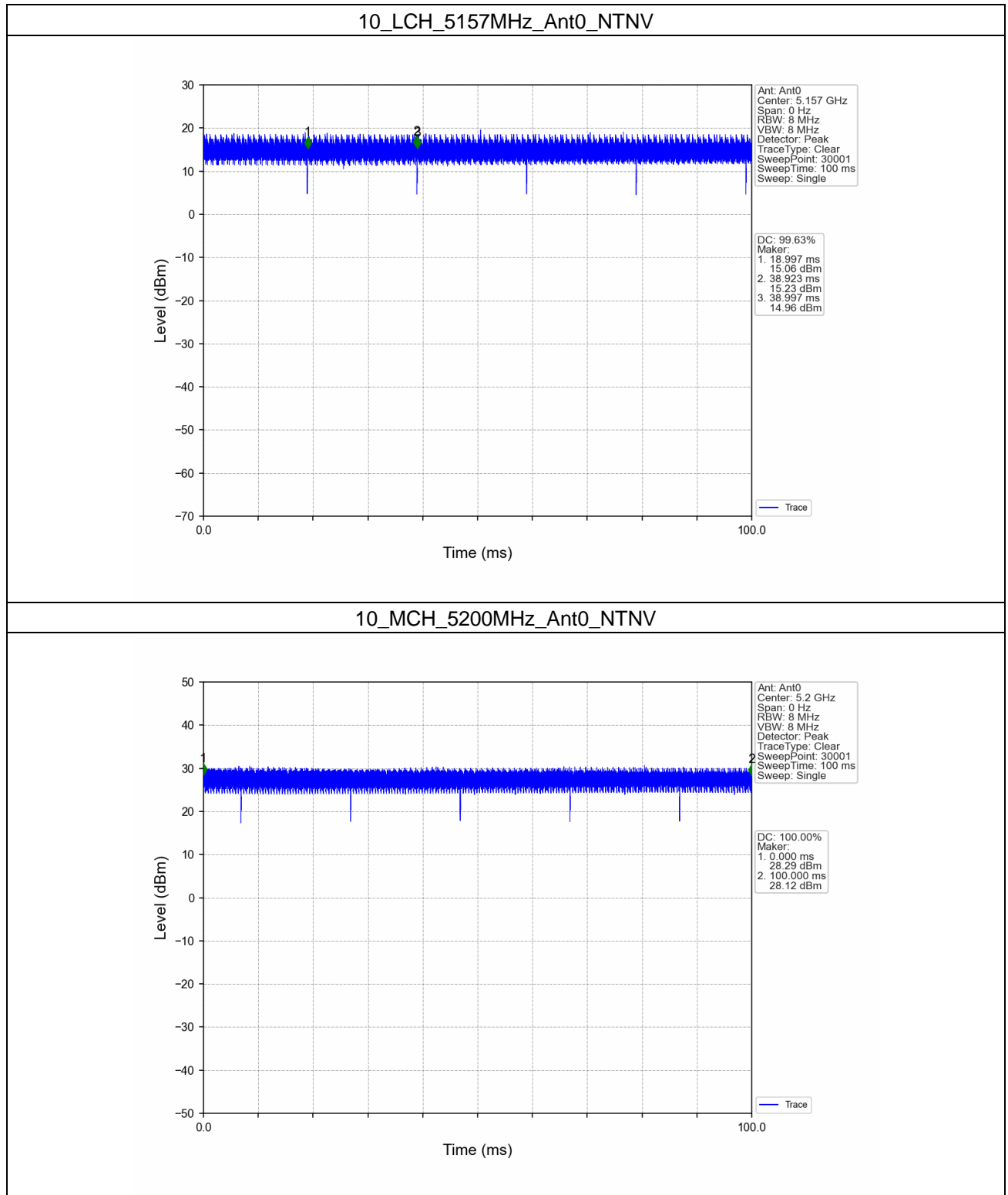
#### 1. Duty Cycle

##### 1.1 Ant0

##### 1.1.1 Test Result

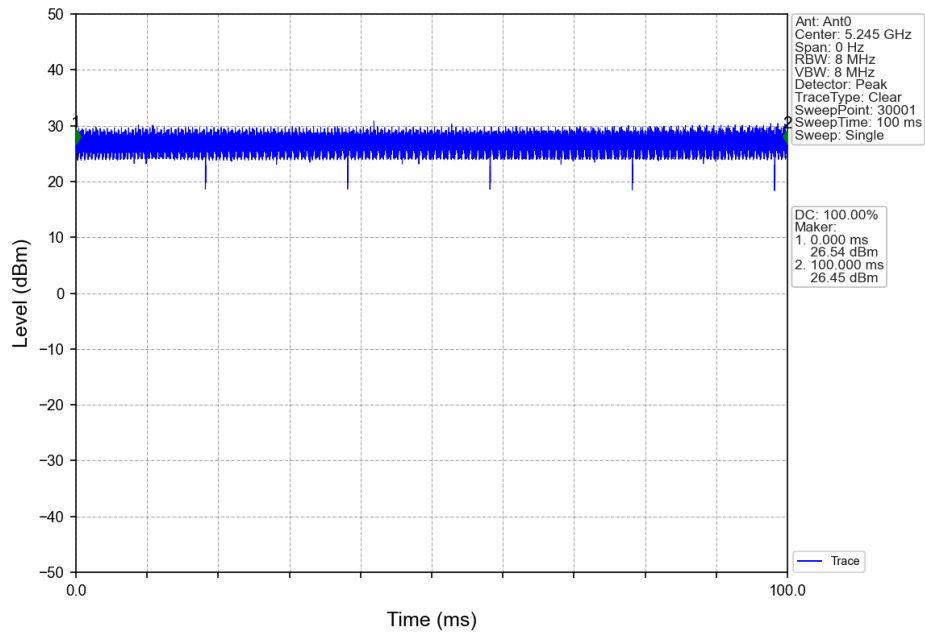
Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
10	SISO	5157	19.926	20.000	99.63	0.02	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5245	100.000	100.000	100.00	0.00	0.00
20	SISO	5161	19.973	20.000	99.87	0.01	0.03
		5200	19.980	20.000	99.90	0.00	0.00
		5240	19.980	20.000	99.90	0.00	0.00
40	SISO	5170	19.976	20.000	99.88	0.01	0.02
		5200	19.977	20.000	99.89	0.00	0.00
		5230	19.977	20.000	99.88	0.00	0.02

## 1.1.2 Test Graph

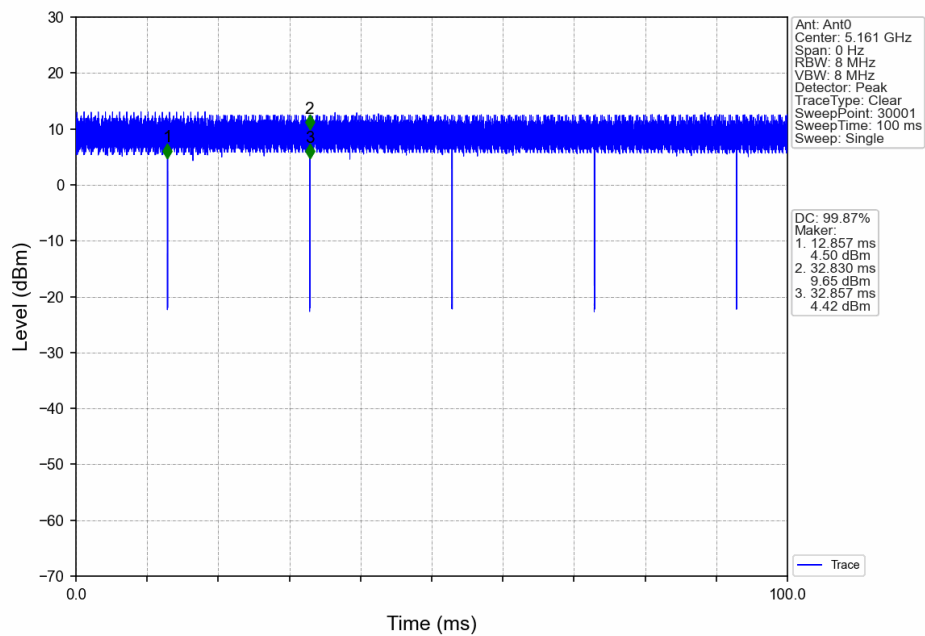




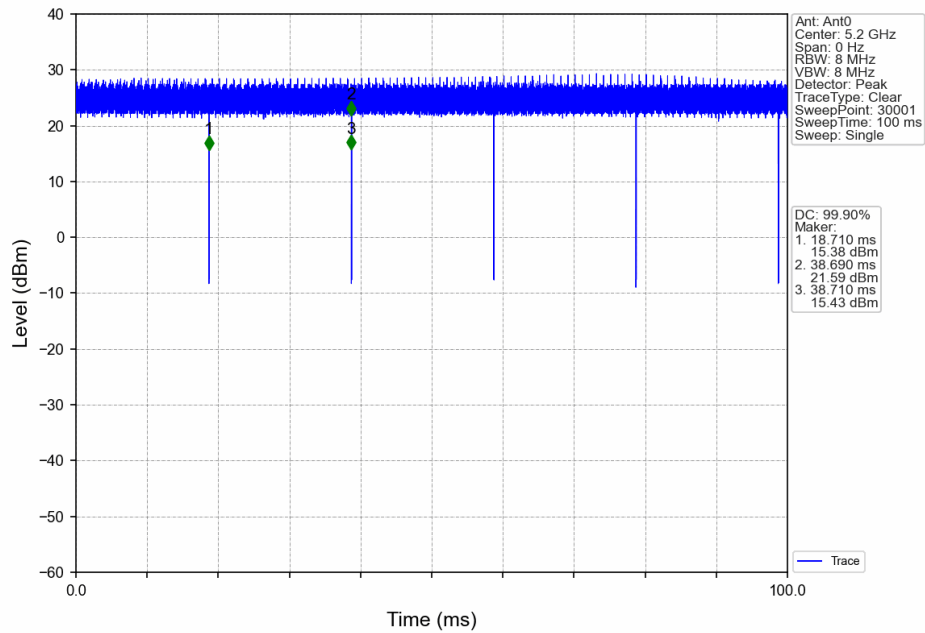
### 10\_HCH\_5245MHz\_Ant0\_NTNV



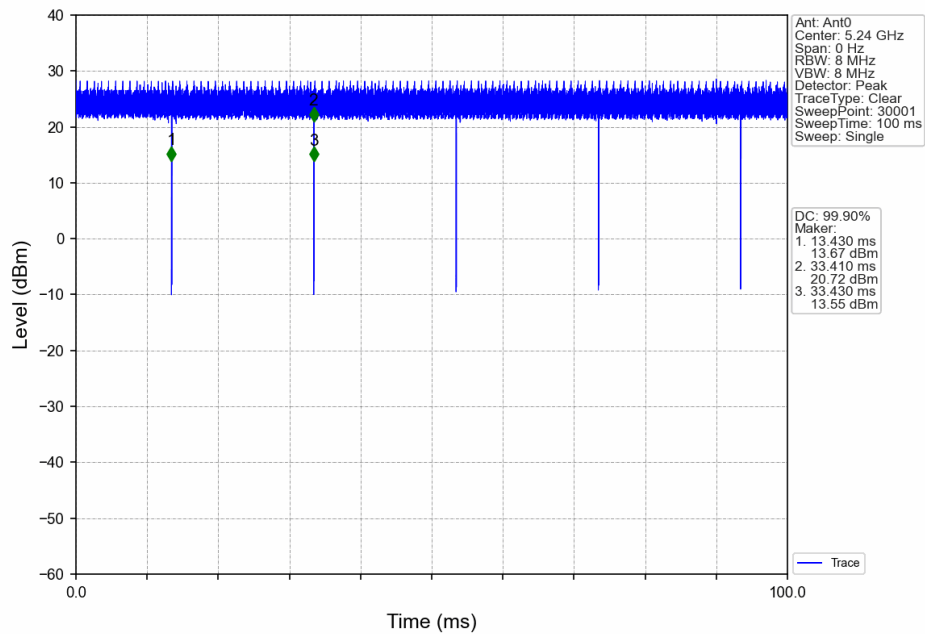
### 20\_LCH\_5161MHz\_Ant0\_NTNV



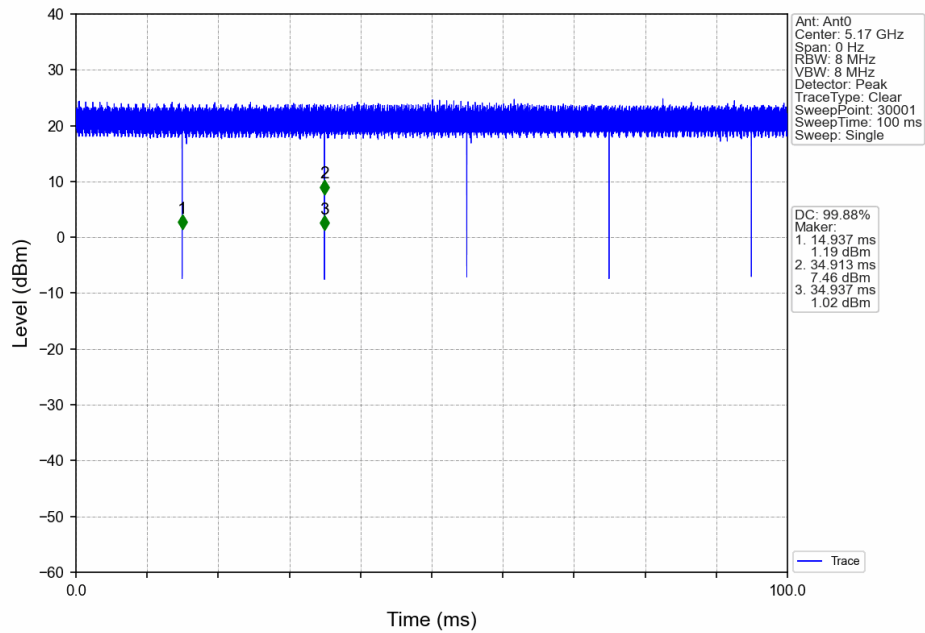
### 20\_MCH\_5200MHz\_Ant0\_NTNV



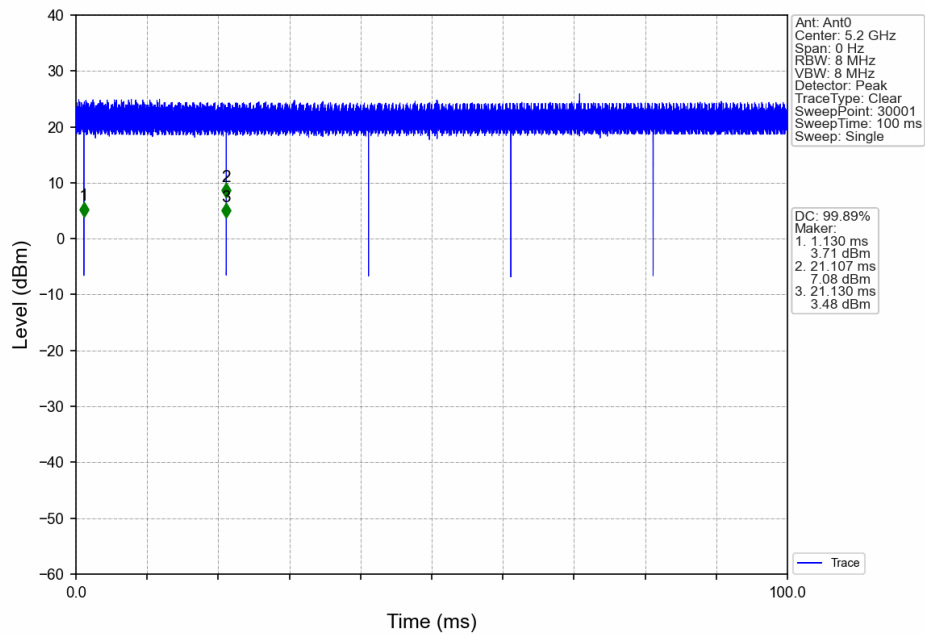
### 20\_HCH\_5240MHz\_Ant0\_NTNV



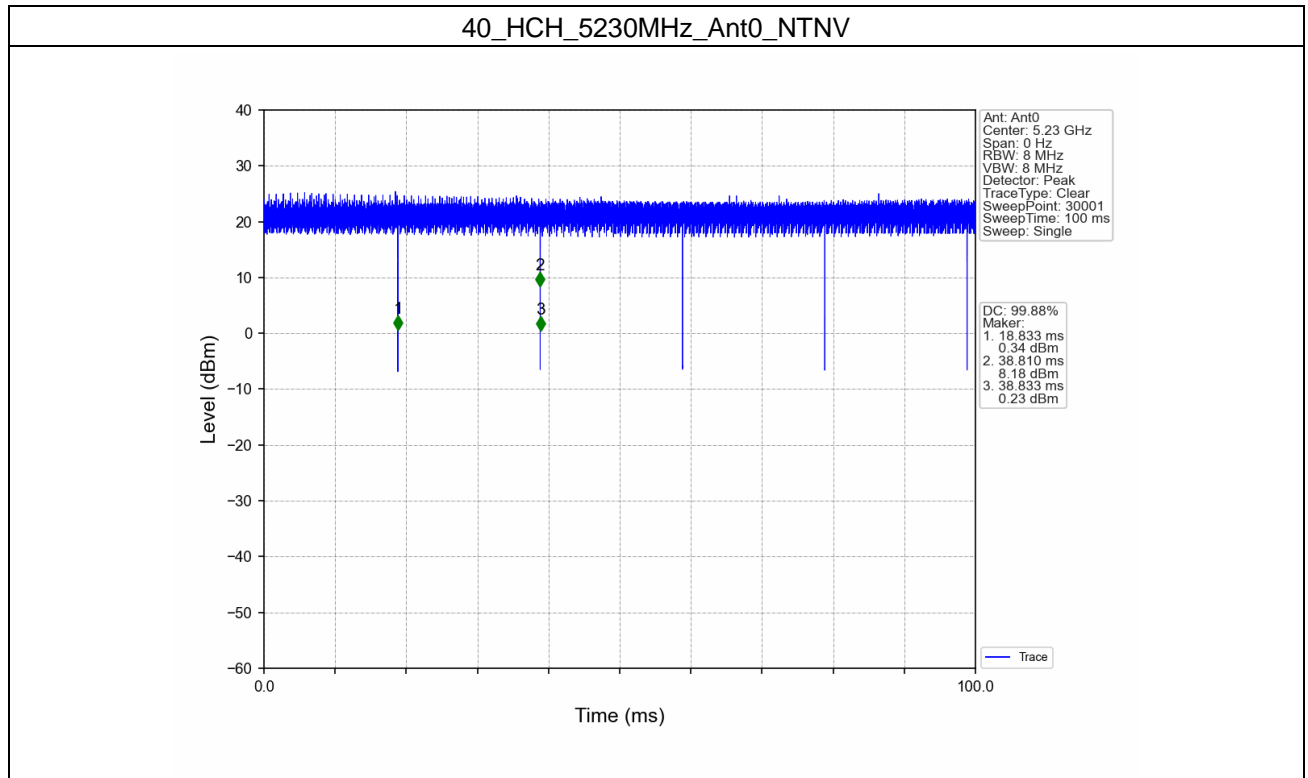
### 40\_LCH\_5170MHz\_Ant0\_NTNV



### 40\_MCH\_5200MHz\_Ant0\_NTNV







## 2. Bandwidth

## 2.1 OBW

## 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
10	SISO	5157	0	9.070	Pass
			1	9.056	Pass
			2	8.991	Pass
			3	9.075	Pass
		5200	0	9.045	Pass
			1	9.082	Pass
			2	9.055	Pass
			3	9.079	Pass
		5245	0	9.075	Pass
			1	9.119	Pass
			2	9.132	Pass
			3	9.128	Pass
20	SISO	5161	0	18.067	Pass
			1	18.040	Pass
			2	17.841	Pass
			3	17.892	Pass
		5200	0	18.230	Pass
			1	18.142	Pass
			2	18.229	Pass
			3	18.056	Pass
		5240	0	18.105	Pass
			1	18.088	Pass
			2	18.134	Pass
			3	18.234	Pass
40	SISO	5170	0	36.449	Pass
			1	37.288	Pass
			2	37.770	Pass
			3	36.775	Pass
		5200	0	36.703	Pass
			1	38.061	Pass
			2	37.271	Pass
			3	36.186	Pass
		5230	0	36.372	Pass