



TEST REPORT

Application No.: GZCR2203000248AT
Applicant: Skycatch, Inc.
Address of Applicant: 424 9th St San Francisco CA 94103
Manufacturer: Skycatch, Inc.
Address of Manufacturer: 424 9th St San Francisco CA 94103
Equipment Under Test (EUT):
EUT Name: Skycatch Explore2
Model No.: SKC-EX2-01
Trade Mark:



Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2022-03-08
Date of Test: 2022-03-10 to 2022-04-01
Date of Issue: 2022-04-12

Test Result:

Pass*

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

Kobe Jian

Kobe Jian
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-04-12		Original

Authorized for issue by				
Tested By				
		Curry Wu/Project Engineer		
Reviewed By				
		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
Duty Cycle	47 CFR Part 15, Subpart E 15.407	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
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	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 (below 1GHz)		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 which fall in the restricted bands		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:	2 x Lithium Ion Polymer Rechargeable Batteries Ratings: 52.8VDC, 5935mAh
Operation Frequency:	1.4MHz BW:5728.5MHz-5846.5MHz; 3MHz BW:5727.5MHz-5844.5MHz; 10MHz BW:5730.5MHz-5844.5MHz; 20MHz BW:5735.5MHz-5839.5MHz; 40MHz BW:5745.5MHz-5829.5MHz
Modulation Type:	OFDM
Number of Channels:	1.4MHz BW:60; 3MHz BW:40; 10MHz BW:115; 20MHz BW:105; 40MHz BW:85
Channel Spacing:	1.4MHz BW:2MHz; 3MHz BW:3MHz; 10MHz BW:1MHz; 20MHz BW:1MHz; 40MHz BW:1MHz
Antenna Type:	PCB Pattern
Antenna Gain:	Antenna 0&1: 1.5dBi declared by applicant

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Radiated Emissions (below 1GHz)	$\pm 5.00\text{dB}$ (30MHz-1GHz; 3m); $\pm 4.38\text{dB}$ (30MHz-1GHz; 10m)
Radiated Emissions (above 1GHz)	$\pm 4.52\text{dB}$ (1GHz-6GHz); $\pm 4.54\text{dB}$ (above 6GHz)
Radiated Emissions which fall in the restricted bands	$\pm 5.00\text{dB}$ (30MHz-1GHz; 3m); $\pm 4.38\text{dB}$ (30MHz-1GHz; 10m); $\pm 4.52\text{dB}$ (1GHz-6GHz); $\pm 4.54\text{dB}$ (above 6GHz)
Frequency Stability	$\pm 7.25 \times 10^{-8}$

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results

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

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciotech 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

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
				2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
				2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
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	2021-03-02	2022-03-01
				2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
				2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
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	2021-03-02	2022-03-01
				2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
				2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
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

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXA Signal Analyzer(10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-02	2022-03-01
				2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
				2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
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	2021-03-02	2022-03-01
				2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
				2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
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	2021-03-02	2022-03-01
				2022-03-01	2023-02-28
ESG Vector Signal Generator(250kHz-6GHz)	Keysight	E4438C	SEM006-03	2021-03-12	2022-03-11
				2022-03-11	2023-03-10
EXG Analog Signal Generator(9kHz-3GHz)	Agilent Technologies	N5171B	SEM006-04	2021-07-12	2022-07-11
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Power Meter (U2021XA_Ch3)	Agilent Technologies	U2021XA_Ch3	SEM009-03	2021-05-19	2022-05-18
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
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 (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	2019-02-22	2022-02-22
				2022-02-22	2025-02-21
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
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	2021-05-26	2022-05-25

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	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

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



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

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
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
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	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-08-30	2022-08-29

Frequency Stability					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2023-11-01
Test Software	TST	V2.0	GZE100-78	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



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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: 1.5dBi; Antenna 1: 1.5dBi.

Antenna location: Refer to Internal photo.



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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 signaling 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 Duty Cycle

Test Requirement KDB 789033 D02 v02r01 II B 1
Test Method: ANSI C63.10 (2013) Section 12.2

7.1.1 E.U.T. Operation

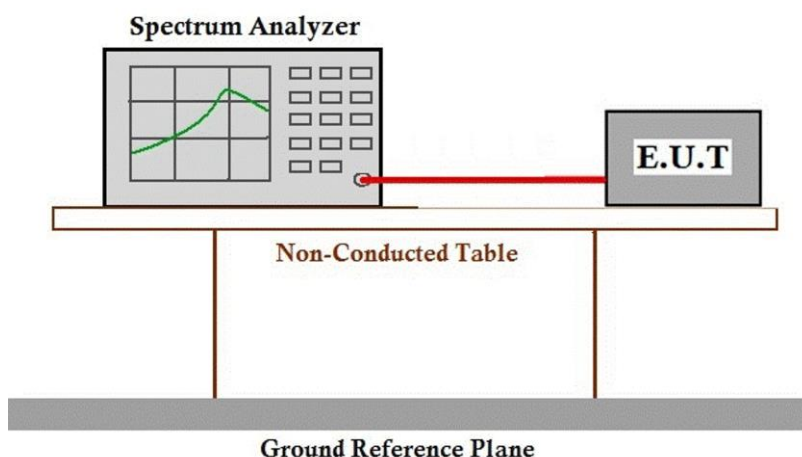
Operating Environment:

Temperature: 21.6 °C Humidity: 52.0 % RH Atmospheric Pressure: 1003 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	06	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	07	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.2 99% Bandwidth

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

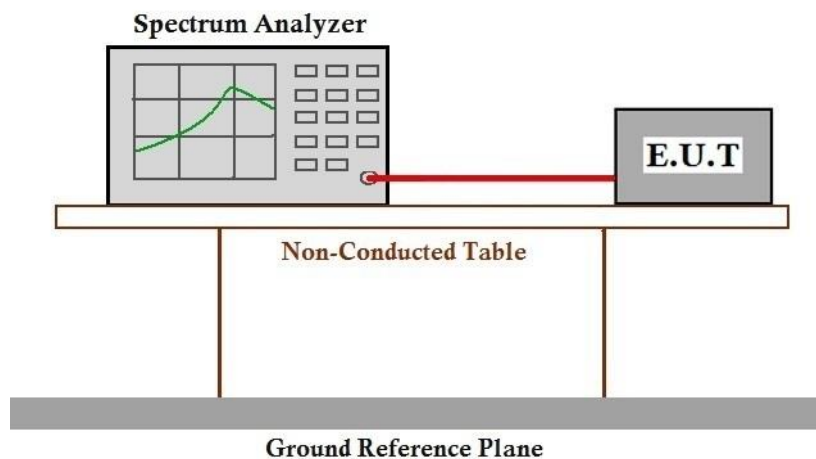
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 21.6 °C Humidity: 52.0 % RH Atmospheric Pressure: 1003 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	06	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	07	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8G SDR 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 26dB Emission bandwidth

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

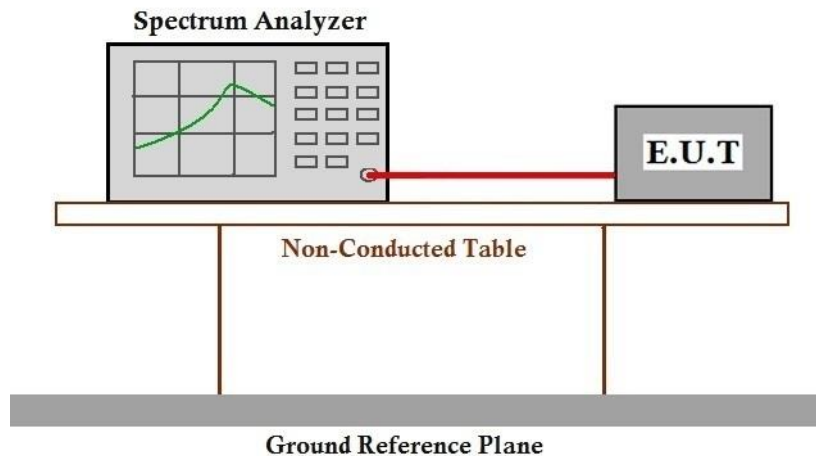
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 21.6 °C Humidity: 52.0 % RH Atmospheric Pressure: 1003 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	06	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	07	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8G SDR 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 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

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

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.4.1 E.U.T. Operation

Operating Environment:

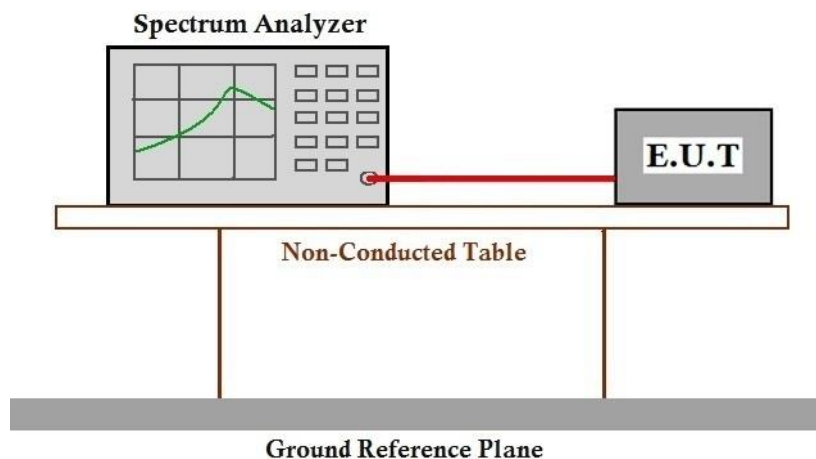
Temperature: 21.6 °C

Humidity: 52.0 % RH

Atmospheric Pressure: 1003 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	06	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	07	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8G SDR 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



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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: 21.6 °C

Humidity: 52.0 % RH

Atmospheric Pressure: 1003 mbar

7.5.2 Test Mode Description

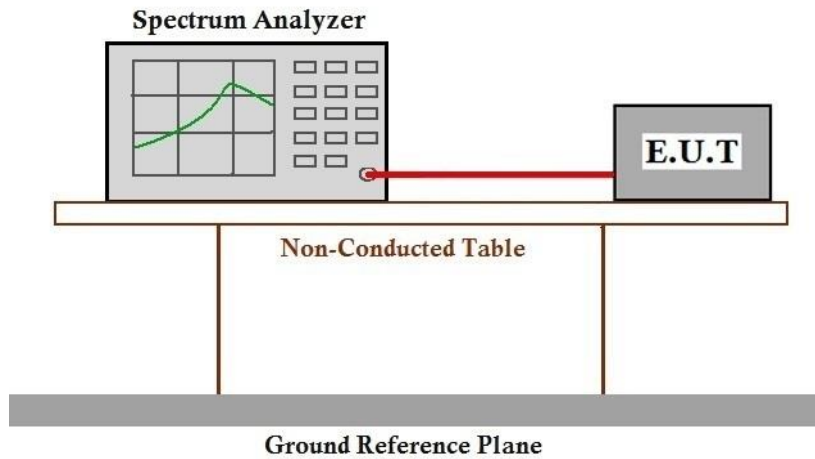
Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	06	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	07	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8G SDR 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: 21.6 °C

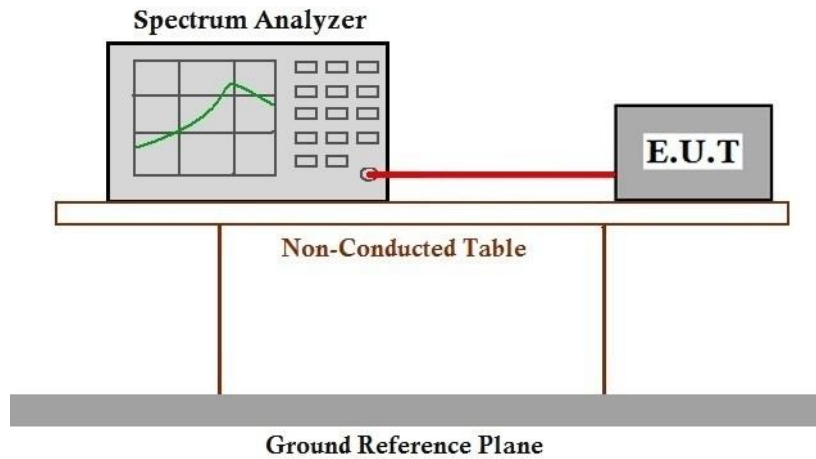
Humidity: 52.0 % RH

Atmospheric Pressure: 1003 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	06	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	07	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8G SDR 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 (below 1GHz)

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

Test Method: KDB 789033 D02 II G

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:

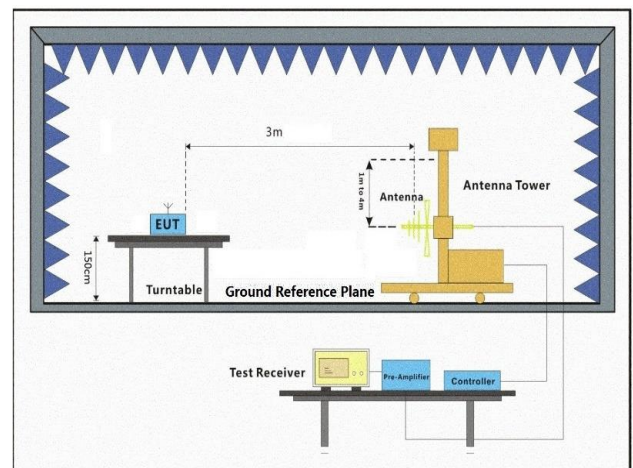
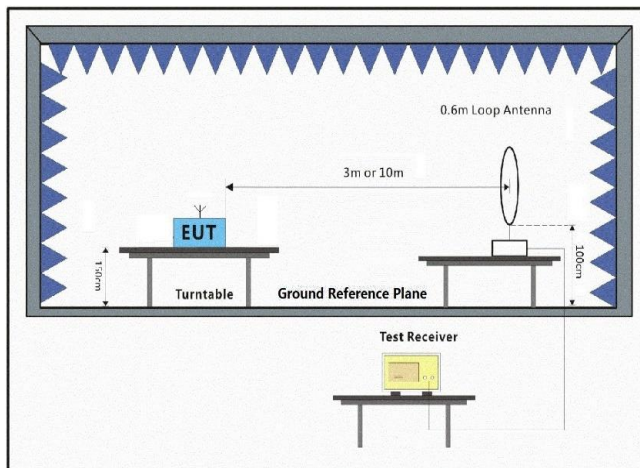
Temperature: 22.3 °C

Humidity: 52.8 % RH

Atmospheric Pressure: 1003 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	06	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	07	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	08	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	09	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.7.3 Test Setup Diagram

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7.7.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-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 (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:

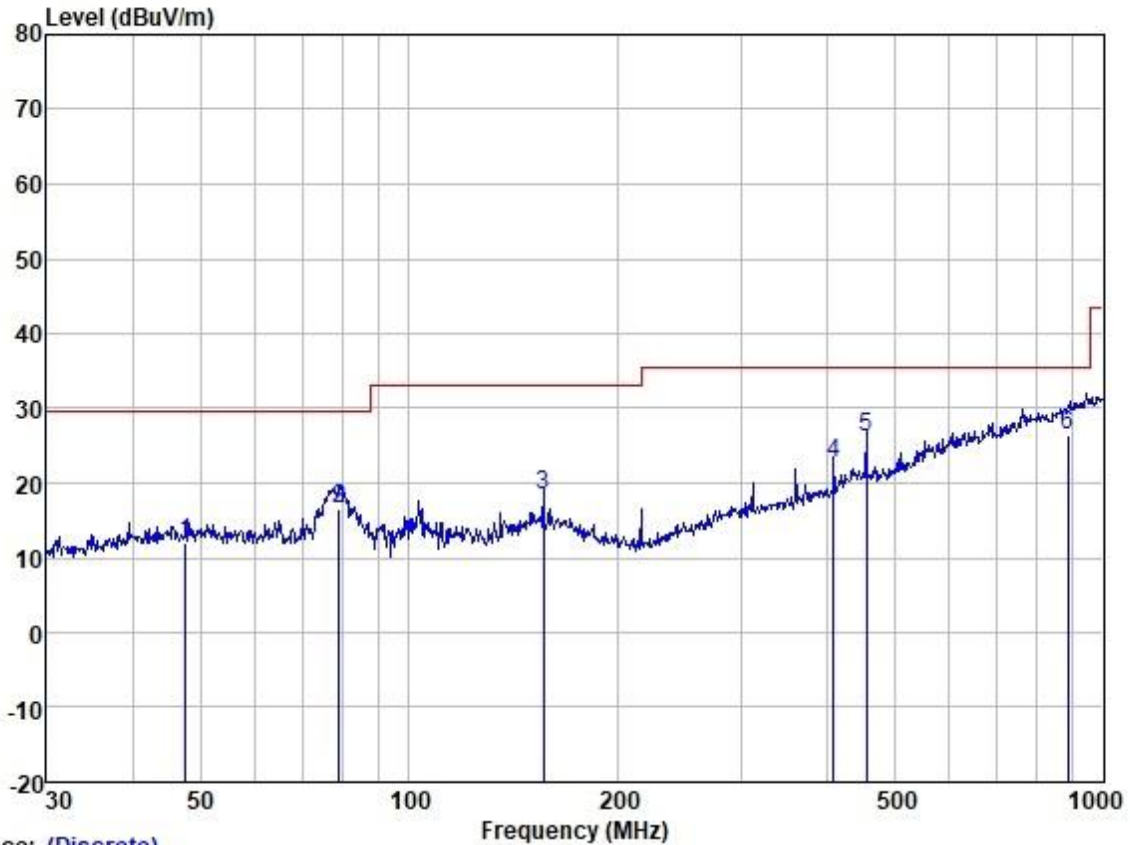
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low. The points marked 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: 05; Polarity: Horizontal; Modulation: OFDM; Channel: Middle



Trace: (Discrete)

Site : SGS

Condition:

Job :

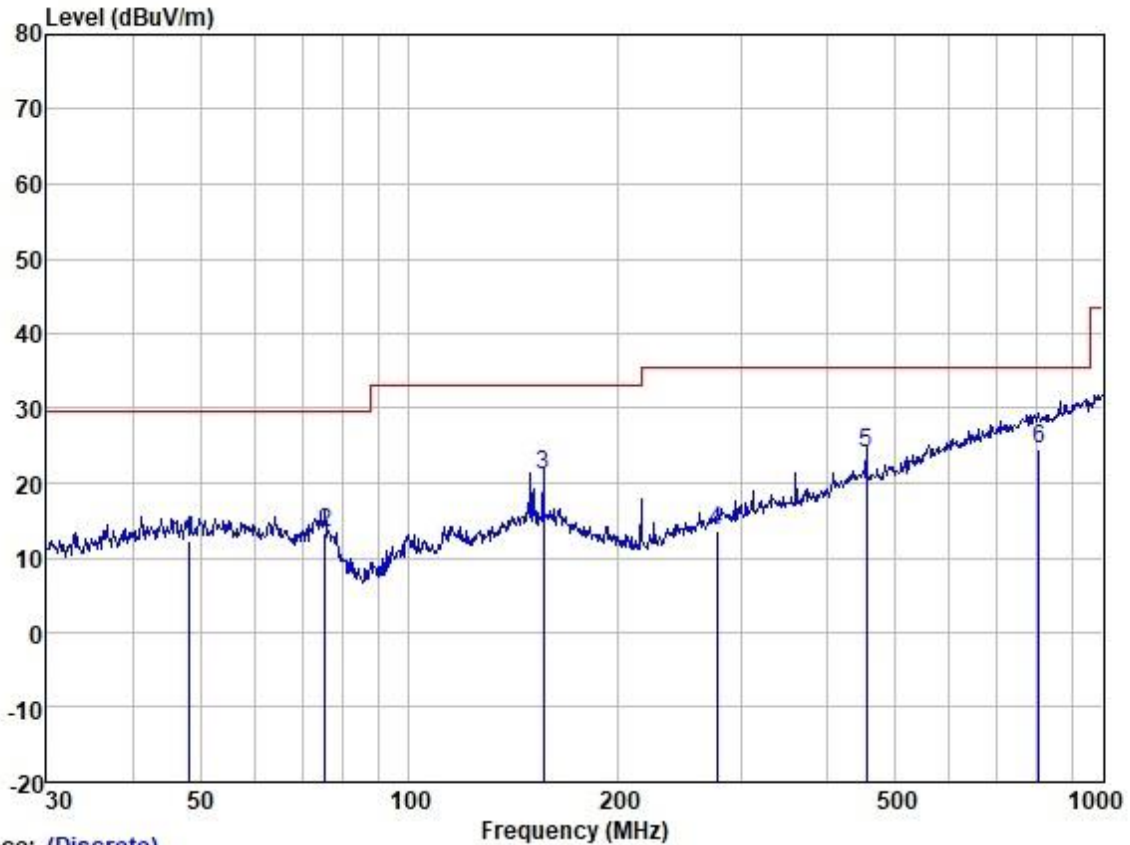
Model :

Power :

Test Mode:

	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	47.659	24.30	13.70	1.13	27.17	11.96	29.50	-17.54	HORIZONTAL	QP
2	79.243	33.25	8.95	1.48	27.10	16.58	29.50	-12.92	HORIZONTAL	QP
3	155.910	29.59	13.44	2.30	26.81	18.52	33.10	-14.58	HORIZONTAL	QP
4	408.946	30.38	15.58	3.97	27.36	22.57	35.60	-13.03	HORIZONTAL	QP
5	455.906	32.56	17.10	4.22	27.75	26.13	35.60	-9.47	HORIZONTAL	QP
6	890.728	24.57	22.85	6.86	27.86	26.42	35.60	-9.18	HORIZONTAL	QP

Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: Middle



Trace: (Discrete)

Site : SGS

Condition:

Job :

Model :

Power :

Test Mode:

	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	48.163	24.72	13.71	1.13	27.17	12.39	29.50	-17.11	VERTICAL	QP
2	75.711	28.94	10.08	1.45	27.10	13.37	29.50	-16.13	VERTICAL	QP
3	155.910	32.15	13.44	2.30	26.81	21.08	33.10	-12.02	VERTICAL	QP
4	277.094	24.23	12.79	3.09	26.57	13.54	35.60	-22.06	VERTICAL	QP
5	455.906	30.38	17.10	4.22	27.75	23.95	35.60	-11.65	VERTICAL	QP
6	807.429	23.91	22.34	6.23	28.02	24.46	35.60	-11.14	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:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 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
47.659	11.96	3.96	13.21	22.42	40	-17.58	H
79.243	26.58	21.33	71.10	37.04	40	-2.96	H
155.910	18.52	8.43	28.11	28.98	43.5	-14.52	H
408.946	22.57	13.44	44.81	33.03	46	-12.97	H
455.906	26.13	20.25	67.51	36.59	46	-9.41	H
890.728	26.42	20.94	69.80	36.88	46	-9.12	H
48.163	12.39	4.16	13.88	22.85	40	-17.15	V
75.711	13.37	4.66	15.54	23.83	40	-16.17	V
155.910	21.08	11.32	37.75	31.54	43.5	-11.96	V
277.094	13.54	4.75	15.84	24.00	46	-22.00	V
455.906	23.95	15.76	52.53	34.41	46	-11.59	V
807.429	24.46	16.71	55.70	34.92	46	-11.08	V



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7.8 Radiated Emissions (above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 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

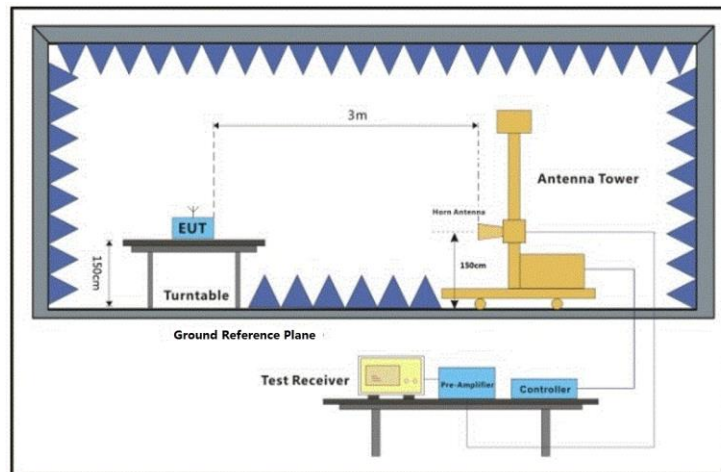
Operating Environment:

Temperature: 23.4 °C Humidity: 53.6 % RH Atmospheric Pressure: 1003 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	06	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	07	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.8.3 Test Setup Diagram



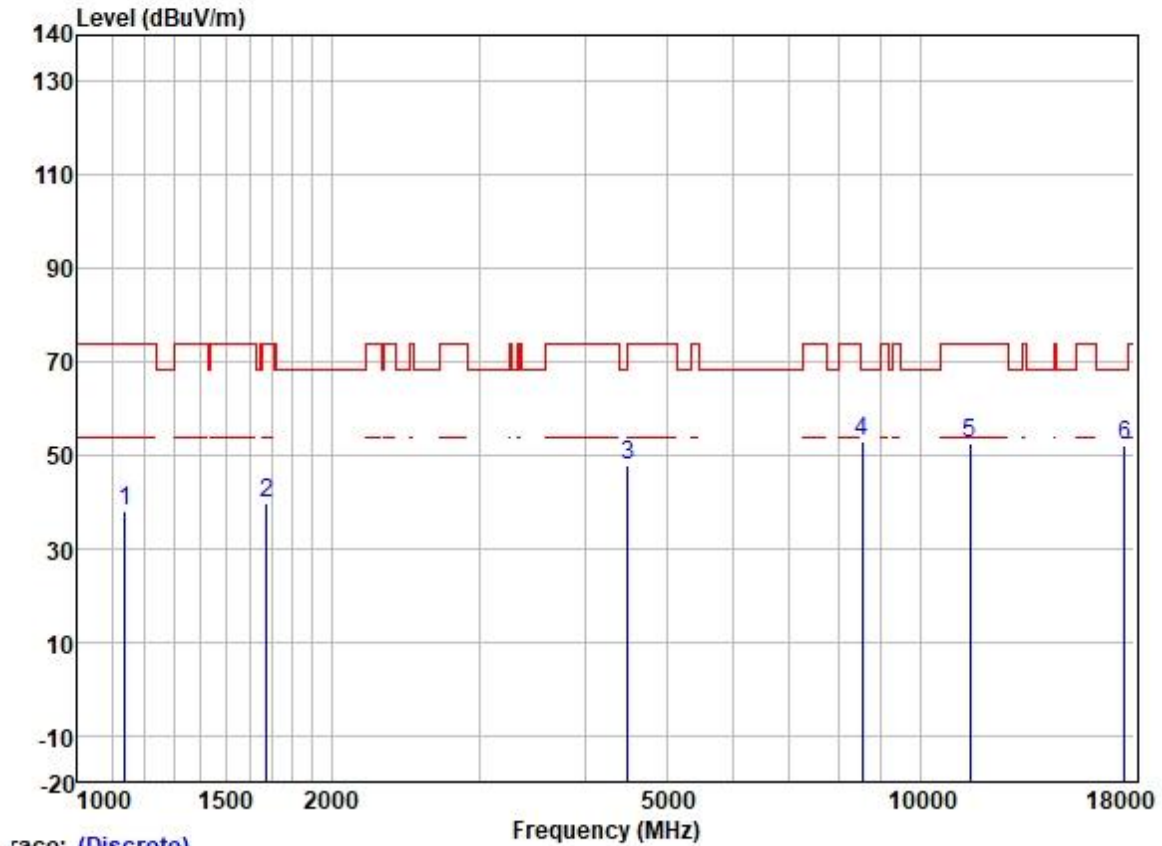
7.8.4 Measurement Procedure and Data

- 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.

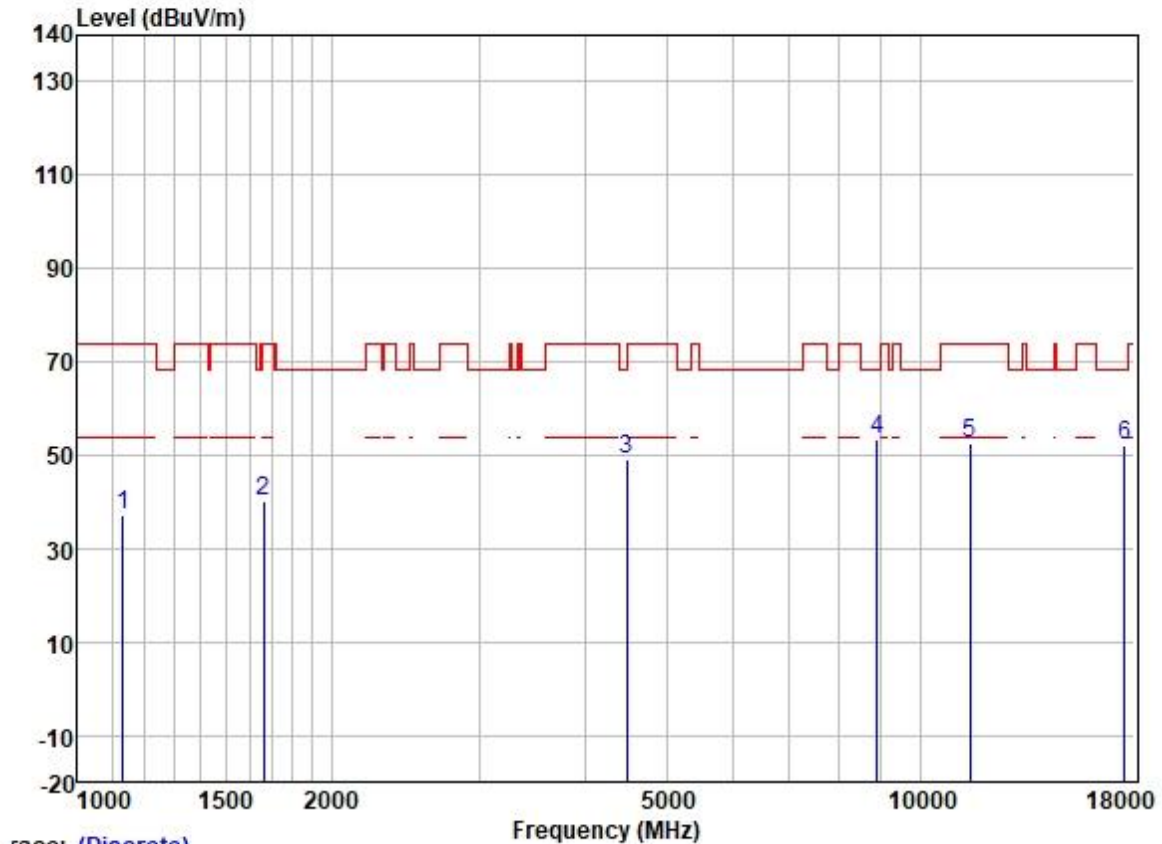
Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Trace: (Discrete)

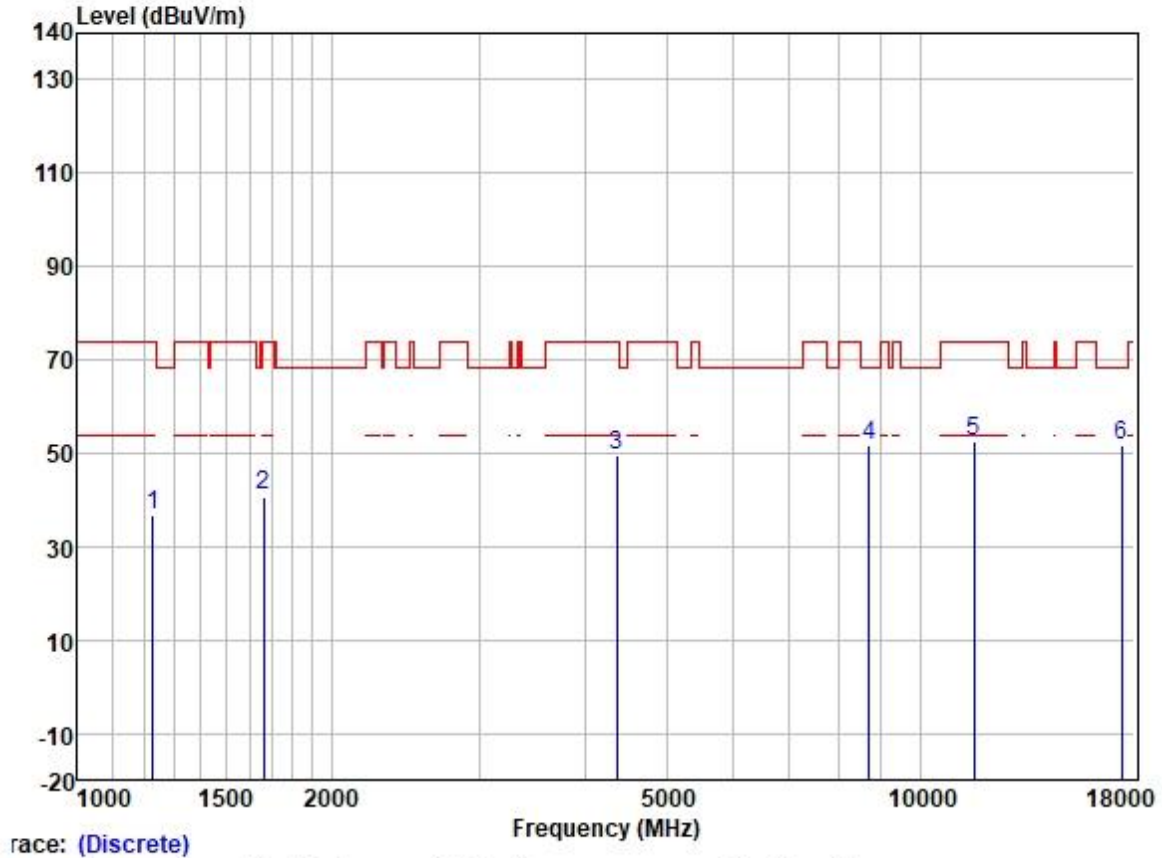
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1138.904	49.58	24.46	2.27	38.42	37.89	74.00	-36.11	HORIZONTAL Peak
2	1677.621	49.00	25.68	2.80	37.91	39.57	74.00	-34.43	HORIZONTAL Peak
3	4495.125	48.88	30.80	5.05	36.82	47.91	68.20	-20.29	HORIZONTAL Peak
4	8539.102	46.36	37.19	6.77	37.56	52.76	68.20	-15.44	HORIZONTAL Peak
5	11457.000	41.46	39.91	8.37	37.15	52.59	74.00	-21.41	HORIZONTAL Peak
6	17485.500	32.67	43.90	10.77	35.32	52.02	68.20	-16.18	HORIZONTAL Peak

Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: Low



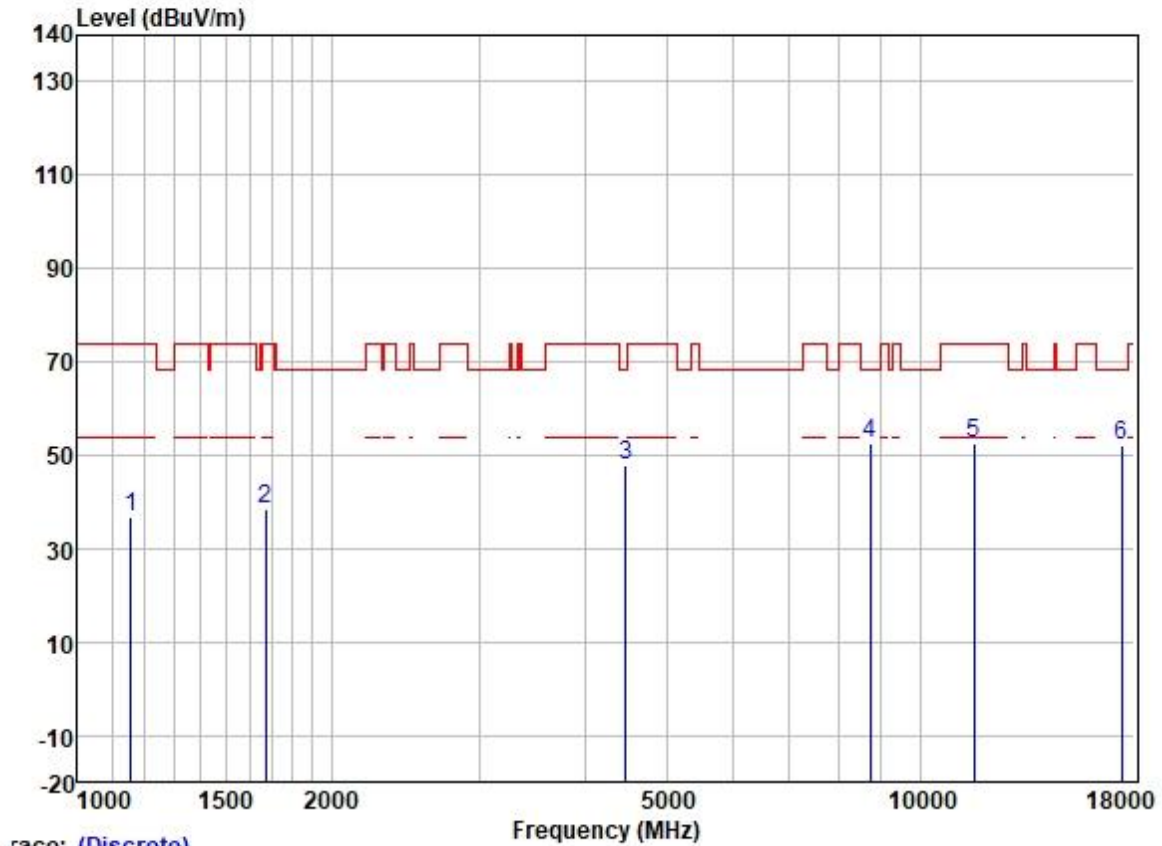
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1132.340	49.05	24.44	2.22	38.43	37.28	74.00	-36.72	VERTICAL Peak
2	1663.137	49.42	25.65	2.80	37.91	39.96	74.00	-34.04	VERTICAL Peak
3	4482.150	50.34	30.78	4.99	36.81	49.30	68.20	-18.90	VERTICAL Peak
4	8891.725	46.10	37.37	7.42	37.52	53.37	68.20	-14.83	VERTICAL Peak
5	11457.000	41.52	39.91	8.37	37.15	52.65	74.00	-21.35	VERTICAL Peak
6	17485.500	32.84	43.90	10.77	35.32	52.19	68.20	-16.01	VERTICAL Peak

Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: middle



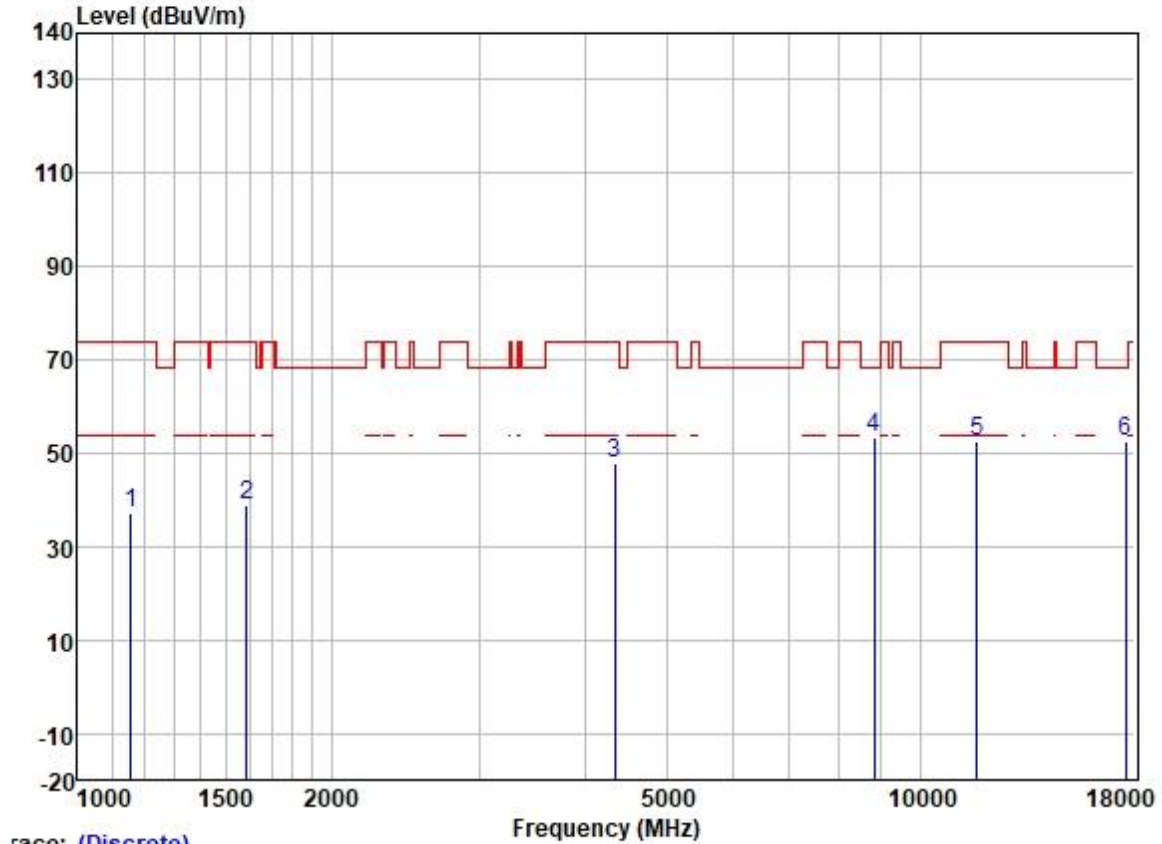
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1227.791	48.04	24.88	2.31	38.37	36.86	74.00	-37.14	HORIZONTAL Peak
2	1663.137	50.26	25.65	2.80	37.91	40.80	74.00	-33.20	HORIZONTAL Peak
3	4367.058	51.19	30.62	4.68	36.81	49.68	74.00	-24.32	HORIZONTAL Peak
4	8713.630	44.92	37.30	7.07	37.55	51.74	68.20	-16.46	HORIZONTAL Peak
5	11577.000	41.62	39.78	8.38	37.14	52.64	74.00	-21.36	HORIZONTAL Peak
6	17365.500	32.79	43.57	10.53	35.32	51.57	68.20	-16.63	HORIZONTAL Peak

Test Mode: 05; 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	1155.483	48.43	24.51	2.38	38.42	36.90	74.00	-37.10	VERTICAL Peak
2	1672.779	47.97	25.67	2.80	37.91	38.53	74.00	-35.47	VERTICAL Peak
3	4469.214	49.04	30.77	4.93	36.81	47.93	68.20	-20.27	VERTICAL Peak
4	8738.852	45.70	37.31	7.13	37.54	52.60	68.20	-15.60	VERTICAL Peak
5	11577.000	41.45	39.78	8.38	37.14	52.47	74.00	-21.53	VERTICAL Peak
6	17365.500	33.38	43.57	10.53	35.32	52.16	68.20	-16.04	VERTICAL Peak

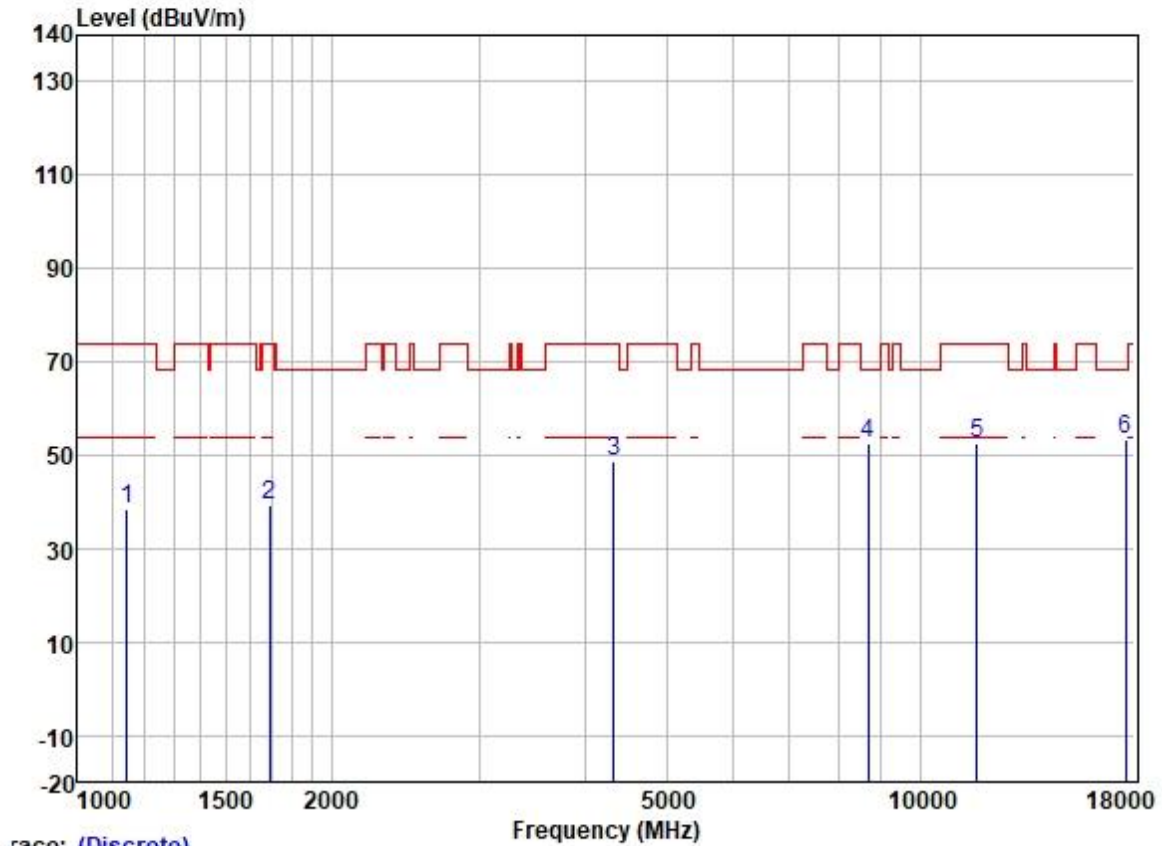
Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: High



Trace: (Discrete)

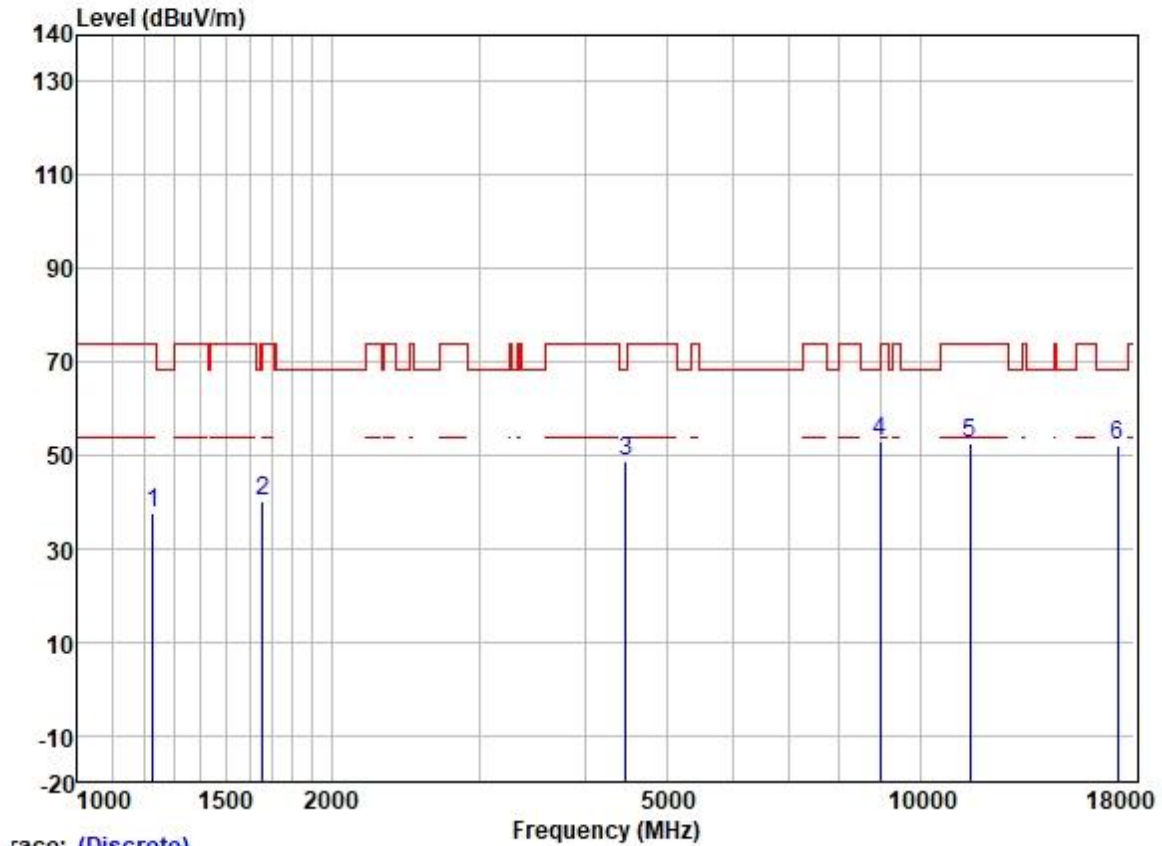
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1155.483	48.88	24.51	2.38	38.42	37.35	74.00	-36.65	HORIZONTAL Peak
2	1587.975	48.66	25.57	2.80	37.98	39.05	74.00	-34.95	HORIZONTAL Peak
3	4341.886	49.30	30.57	4.67	36.81	47.73	74.00	-26.27	HORIZONTAL Peak
4	8814.957	46.27	37.34	7.29	37.53	53.37	68.20	-14.83	HORIZONTAL Peak
5	11693.000	41.80	39.49	8.32	37.13	52.48	74.00	-21.52	HORIZONTAL Peak
6	17539.500	32.91	43.97	10.76	35.31	52.33	68.20	-15.87	HORIZONTAL Peak

Test Mode: 05; 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	1145.507	50.24	24.48	2.32	38.42	38.62	74.00	-35.38	VERTICAL Peak
2	1692.231	48.82	25.70	2.80	37.89	39.43	74.00	-34.57	VERTICAL Peak
3	4329.354	50.09	30.54	4.67	36.81	48.49	74.00	-25.51	VERTICAL Peak
4	8688.480	45.66	37.28	7.02	37.55	52.41	68.20	-15.79	VERTICAL Peak
5	11693.000	41.96	39.49	8.32	37.13	52.64	74.00	-21.36	VERTICAL Peak
6	17539.500	34.00	43.97	10.76	35.31	53.42	68.20	-14.78	VERTICAL Peak

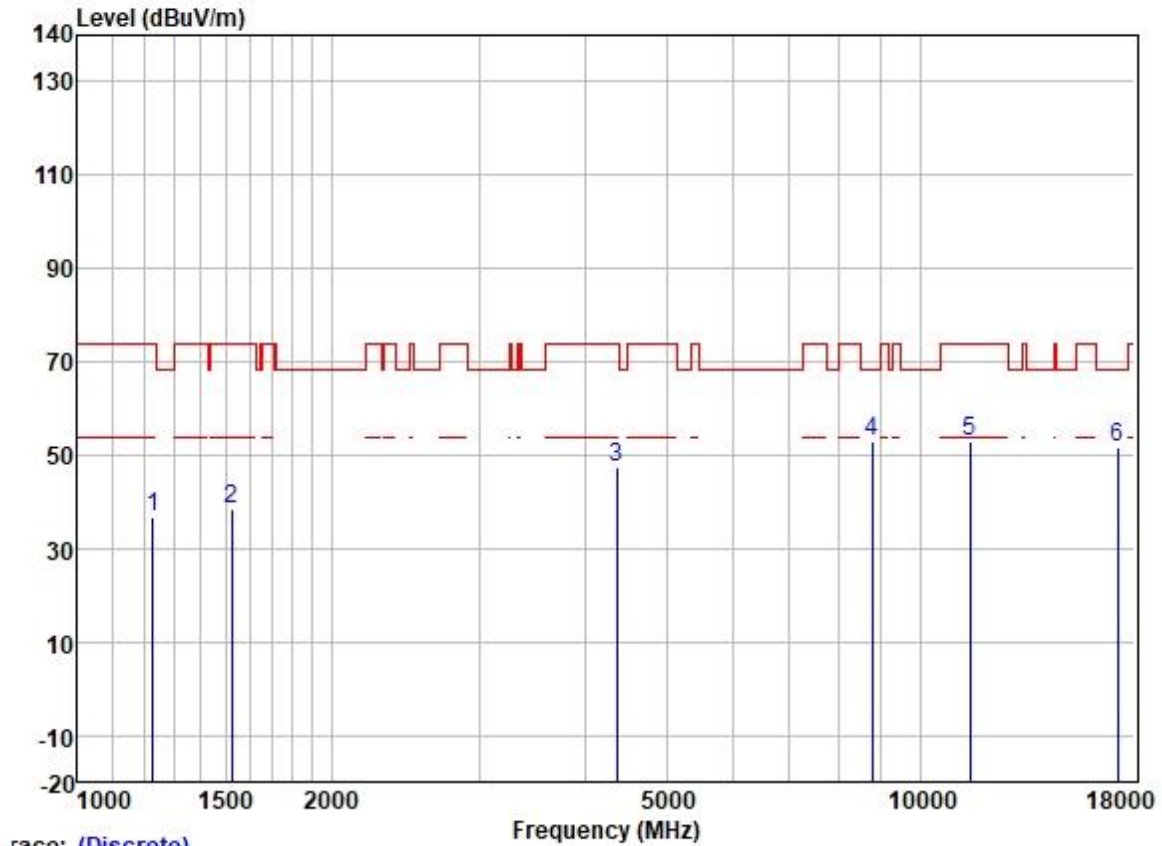
Test Mode: 06; Polarity: Horizontal; Modulation: OFDM; Channel: Low



race: (Discrete)

	Freq	Read	Antenna	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	1227.791	48.63	24.88	2.31	38.37	37.45	74.00	-36.55	HORIZONTAL Peak
2	1658.337	49.82	25.65	2.80	37.93	40.34	68.20	-27.86	HORIZONTAL Peak
3	4469.214	49.76	30.77	4.93	36.81	48.65	68.20	-19.55	HORIZONTAL Peak
4	8969.161	45.59	37.39	7.53	37.51	53.00	68.20	-15.20	HORIZONTAL Peak
5	11455.000	41.58	39.91	8.37	37.15	52.71	74.00	-21.29	HORIZONTAL Peak
6	17182.500	34.63	42.79	9.92	35.33	52.01	68.20	-16.19	HORIZONTAL Peak

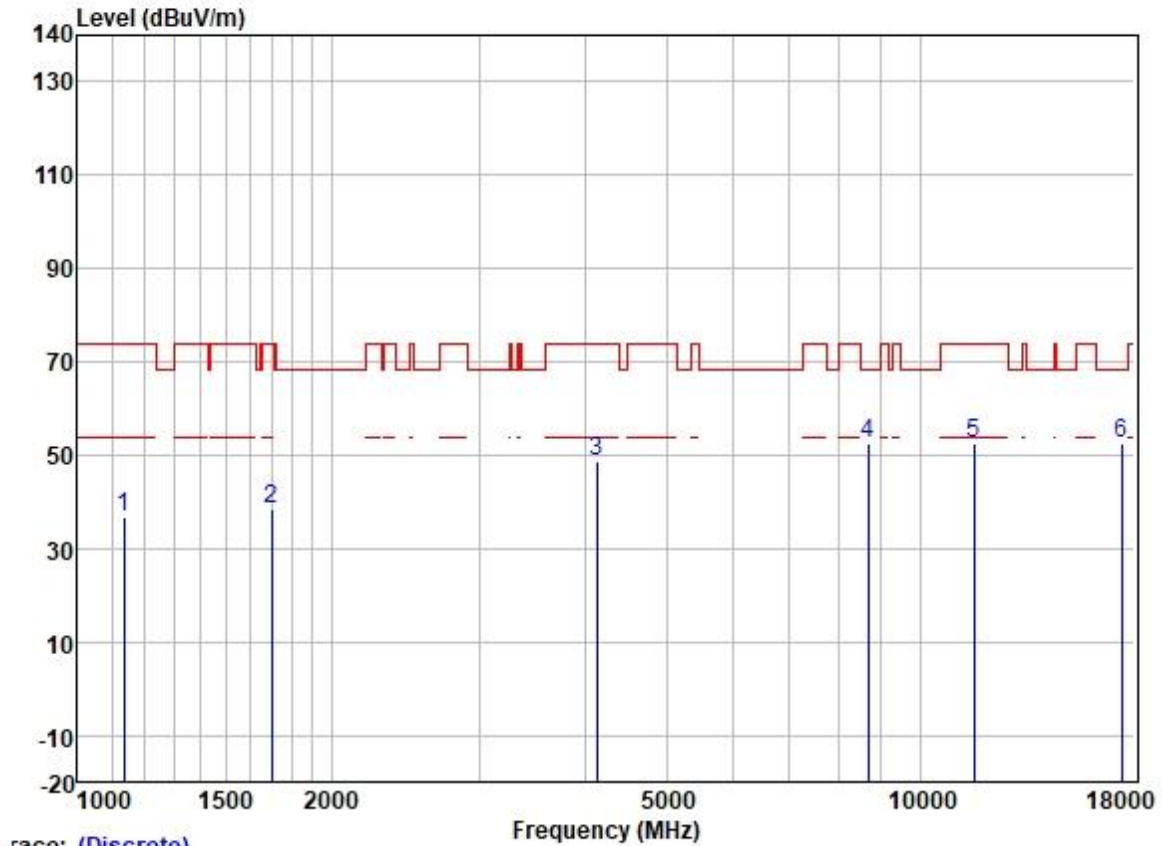
Test Mode: 06; Polarity: Vertical; Modulation: OFDM; Channel: Low



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	dB		
1	1227.791	47.90	24.88	2.31	38.37	36.72	74.00	-37.28	VERTICAL Peak
2	1525.000	48.04	25.52	2.80	38.07	38.29	74.00	-35.71	VERTICAL Peak
3	4367.058	49.05	30.62	4.68	36.81	47.54	74.00	-26.46	VERTICAL Peak
4	8764.146	45.83	37.32	7.19	37.54	52.80	68.20	-15.40	VERTICAL Peak
5	11455.000	41.81	39.91	8.37	37.15	52.94	74.00	-21.06	VERTICAL Peak
6	17182.500	34.42	42.79	9.92	35.33	51.80	68.20	-16.40	VERTICAL Peak

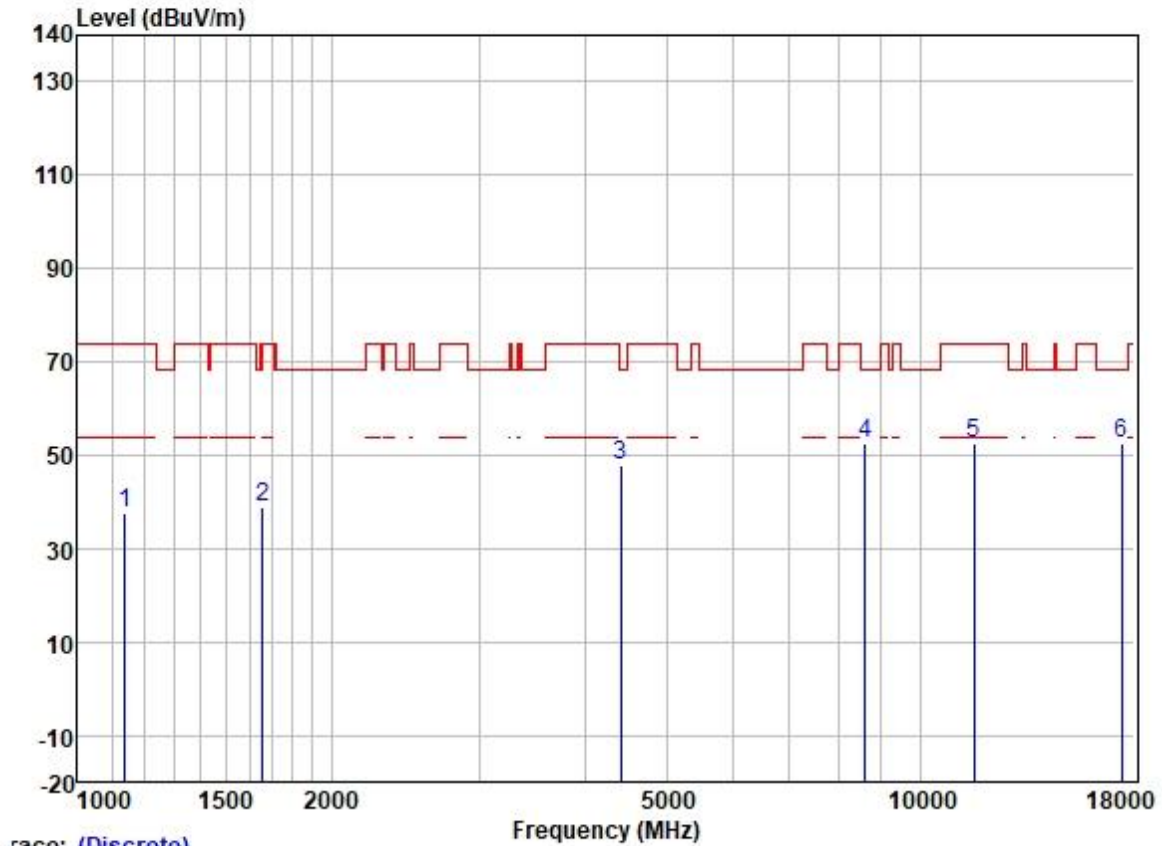
Test Mode: 06; Polarity: Horizontal; Modulation: OFDM; Channel: middle



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	dB		
1	1135.617	48.60	24.45	2.25	38.43	36.87	74.00	-37.13	HORIZONTAL Peak
2	1697.129	47.79	25.71	2.80	37.89	38.41	74.00	-35.59	HORIZONTAL Peak
3	4133.699	50.89	30.01	4.60	36.80	48.70	74.00	-25.30	HORIZONTAL Peak
4	8688.480	45.72	37.28	7.02	37.55	52.47	68.20	-15.73	HORIZONTAL Peak
5	11575.000	41.48	39.78	8.38	37.14	52.50	74.00	-21.50	HORIZONTAL Peak
6	17362.500	33.70	43.57	10.53	35.32	52.48	68.20	-15.72	HORIZONTAL Peak

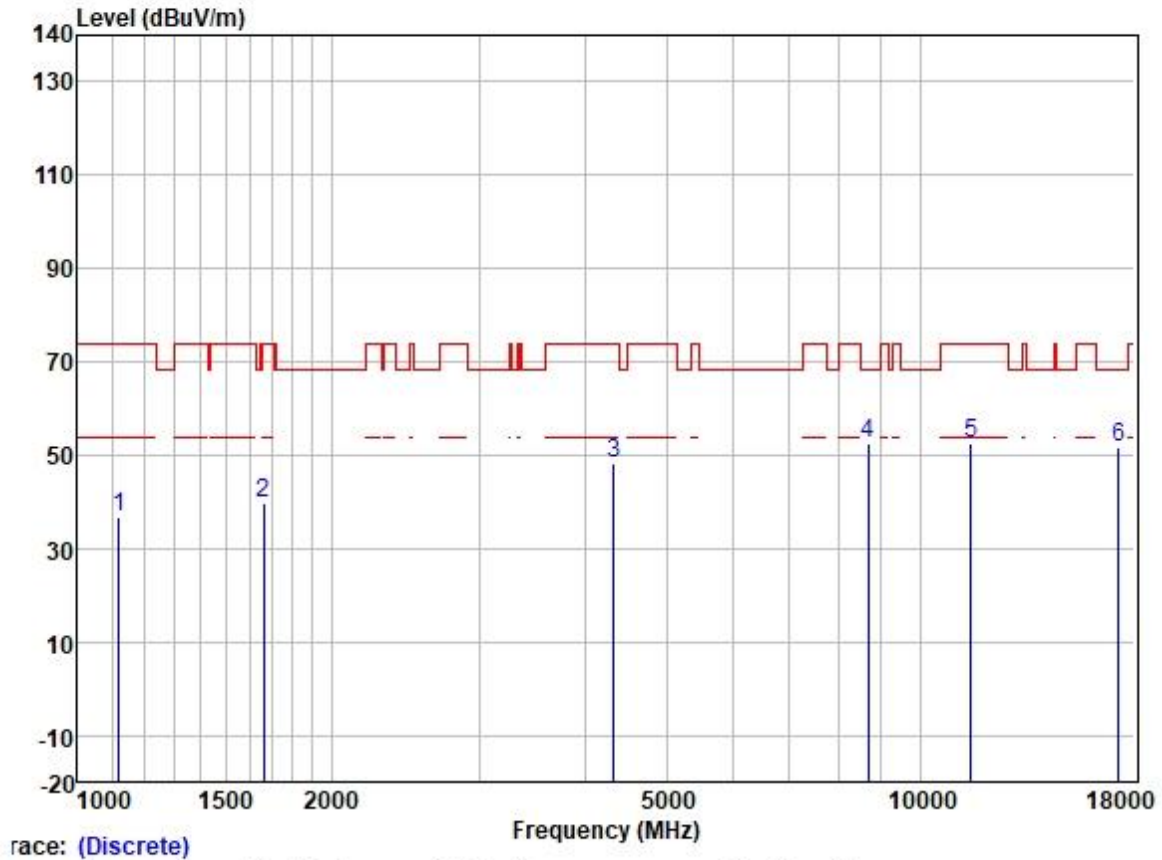
Test Mode: 06; Polarity: Vertical; Modulation: OFDM; Channel: middle



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	dB		
1	1138.904	49.17	24.46	2.27	38.42	37.48	74.00	-36.52	VERTICAL Peak
2	1658.337	48.31	25.65	2.80	37.93	38.83	68.20	-29.37	VERTICAL Peak
3	4417.841	49.37	30.70	4.74	36.81	48.00	68.20	-20.20	VERTICAL Peak
4	8613.468	46.18	37.24	6.88	37.56	52.74	68.20	-15.46	VERTICAL Peak
5	11575.000	41.47	39.78	8.38	37.14	52.49	74.00	-21.51	VERTICAL Peak
6	17362.500	33.63	43.57	10.53	35.32	52.41	68.20	-15.79	VERTICAL Peak

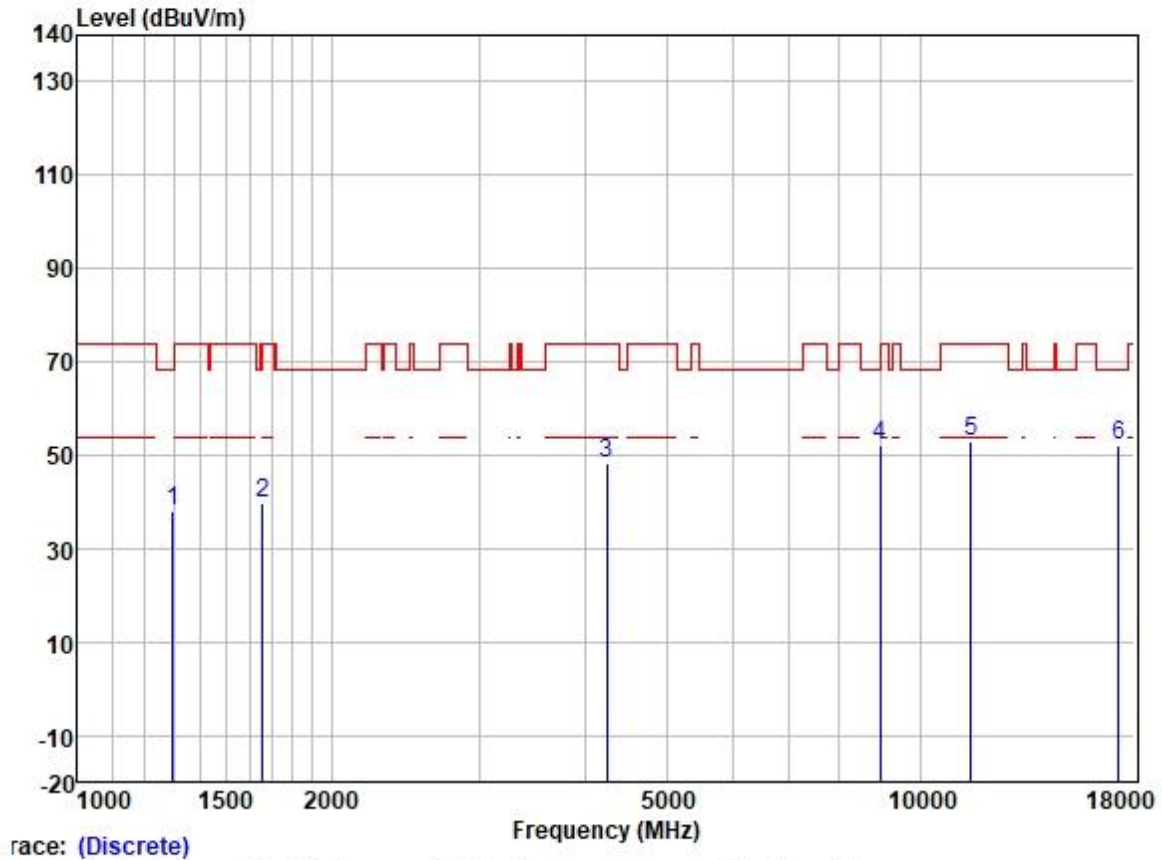
Test Mode: 06; Polarity: Horizontal; Modulation: OFDM; Channel: High



race: (Discrete)

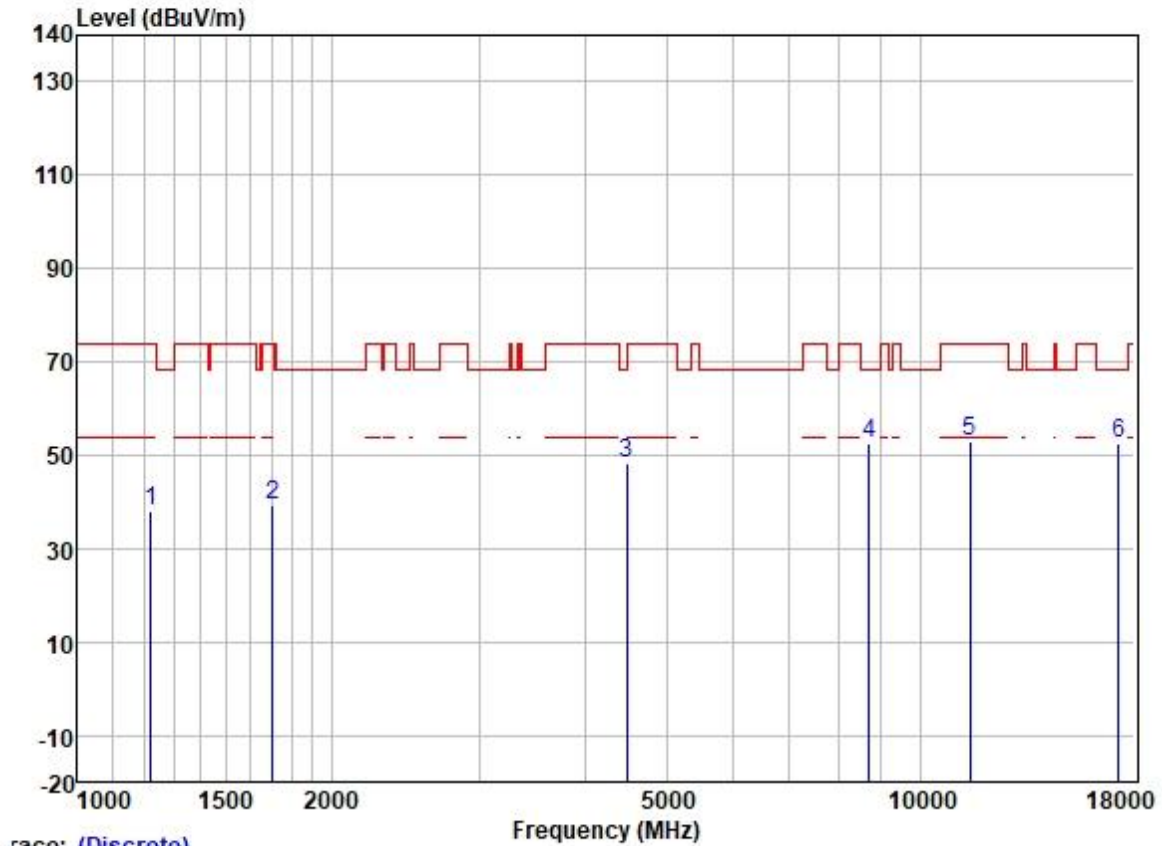
		ReadAntenna		Cable	Preamp		Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1119.323	48.58	24.41	2.24	38.43	36.80	74.00	-37.20	HORIZONTAL	Peak
2	1663.137	49.28	25.65	2.80	37.91	39.82	74.00	-34.18	HORIZONTAL	Peak
3	4329.354	49.96	30.54	4.67	36.81	48.36	74.00	-25.64	HORIZONTAL	Peak
4	8688.480	45.99	37.28	7.02	37.55	52.74	68.20	-15.46	HORIZONTAL	Peak
5	11489.000	41.51	39.90	8.41	37.15	52.67	74.00	-21.33	HORIZONTAL	Peak
6	17233.500	34.10	43.01	10.08	35.33	51.86	68.20	-16.34	HORIZONTAL	Peak

Test Mode: 06; 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	1297.103	48.75	25.19	2.58	38.31	38.21	68.20	-29.99	VERTICAL Peak
2	1658.337	49.33	25.65	2.80	37.93	39.85	68.20	-28.35	VERTICAL Peak
3	4242.641	50.25	30.30	4.62	36.81	48.36	74.00	-25.64	VERTICAL Peak
4	8969.161	44.78	37.39	7.53	37.51	52.19	68.20	-16.01	VERTICAL Peak
5	11489.000	42.00	39.90	8.41	37.15	53.16	74.00	-20.84	VERTICAL Peak
6	17233.500	34.49	43.01	10.08	35.33	52.25	68.20	-15.95	VERTICAL Peak

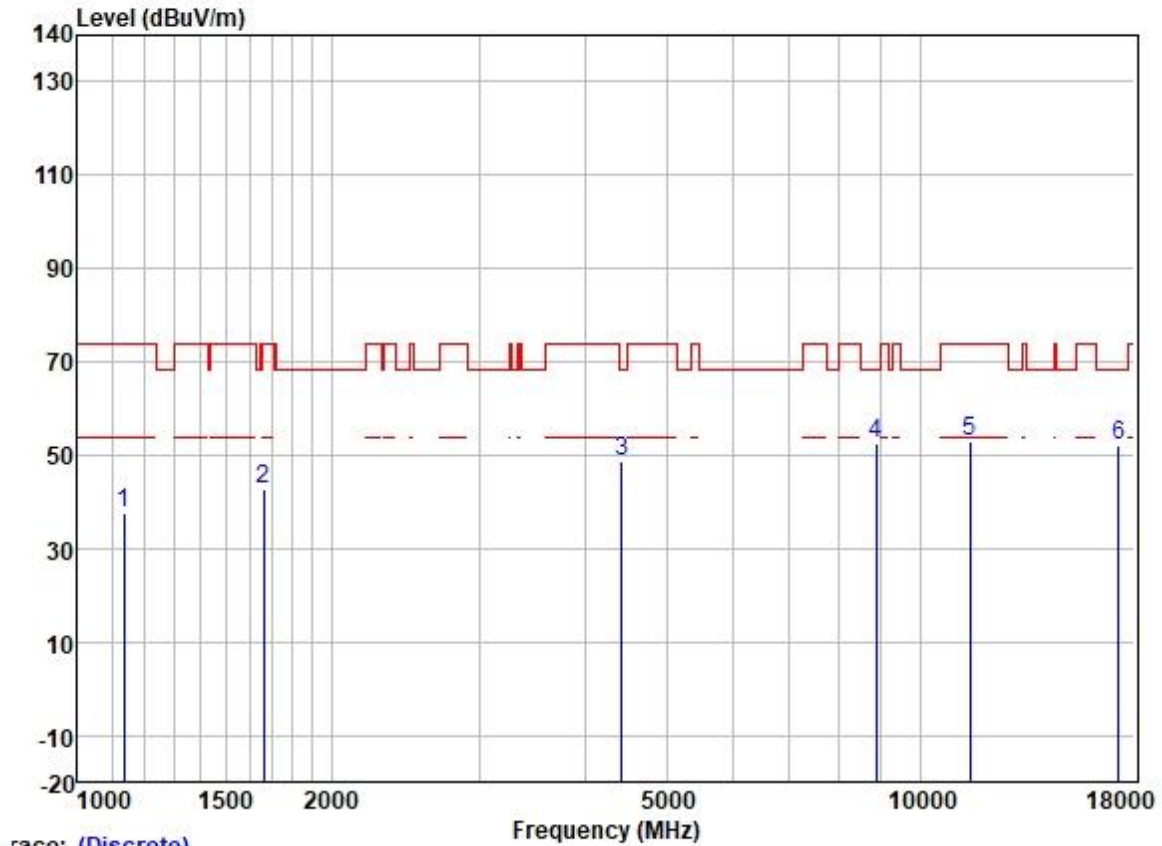
Test Mode: 07; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Trace: (Discrete)

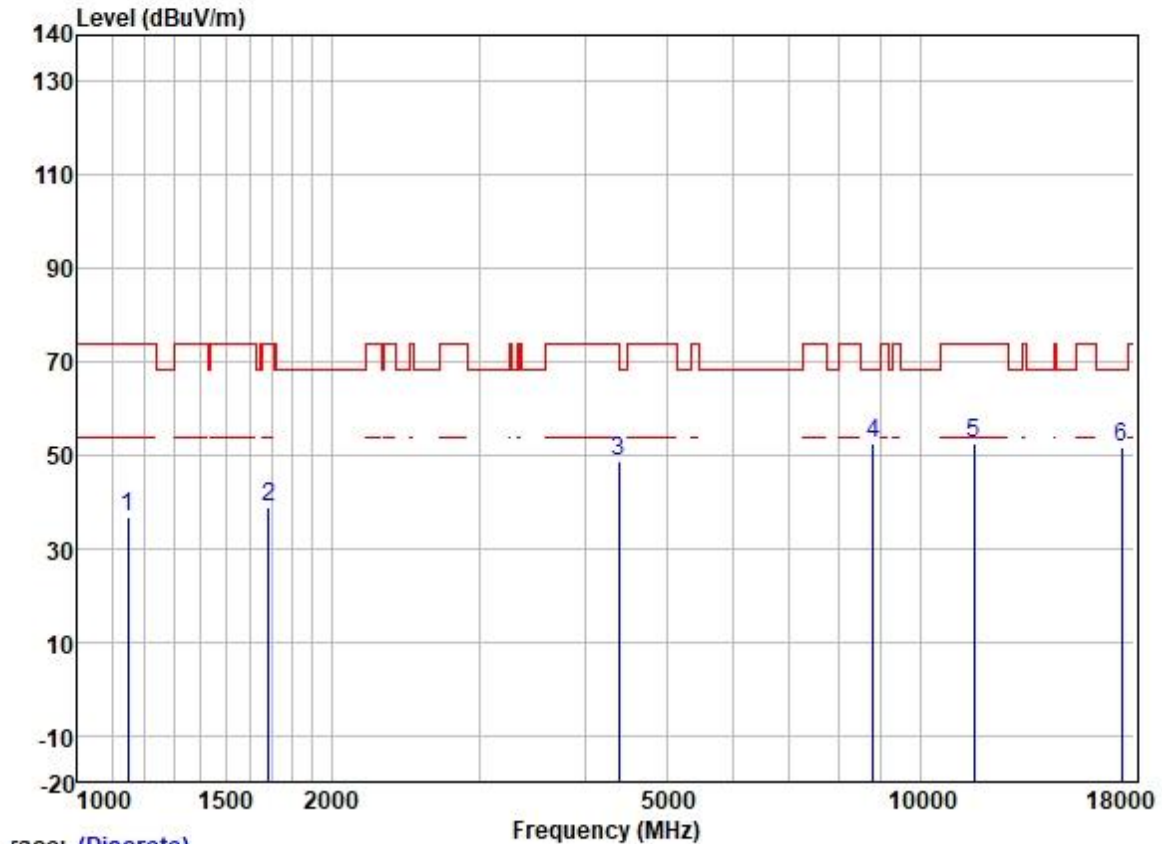
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1220.714	49.18	24.82	2.32	38.37	37.95	74.00	-36.05	HORIZONTAL Peak
2	1702.042	48.50	25.72	2.80	37.89	39.13	74.00	-34.87	HORIZONTAL Peak
3	4482.150	49.24	30.78	4.99	36.81	48.20	68.20	-20.00	HORIZONTAL Peak
4	8713.630	45.51	37.30	7.07	37.55	52.33	68.20	-15.87	HORIZONTAL Peak
5	11461.000	41.84	39.91	8.37	37.15	52.97	74.00	-21.03	HORIZONTAL Peak
6	17191.500	35.01	42.79	9.92	35.33	52.39	68.20	-15.81	HORIZONTAL Peak

Test Mode: 07; Polarity: Vertical; Modulation: OFDM; Channel: Low



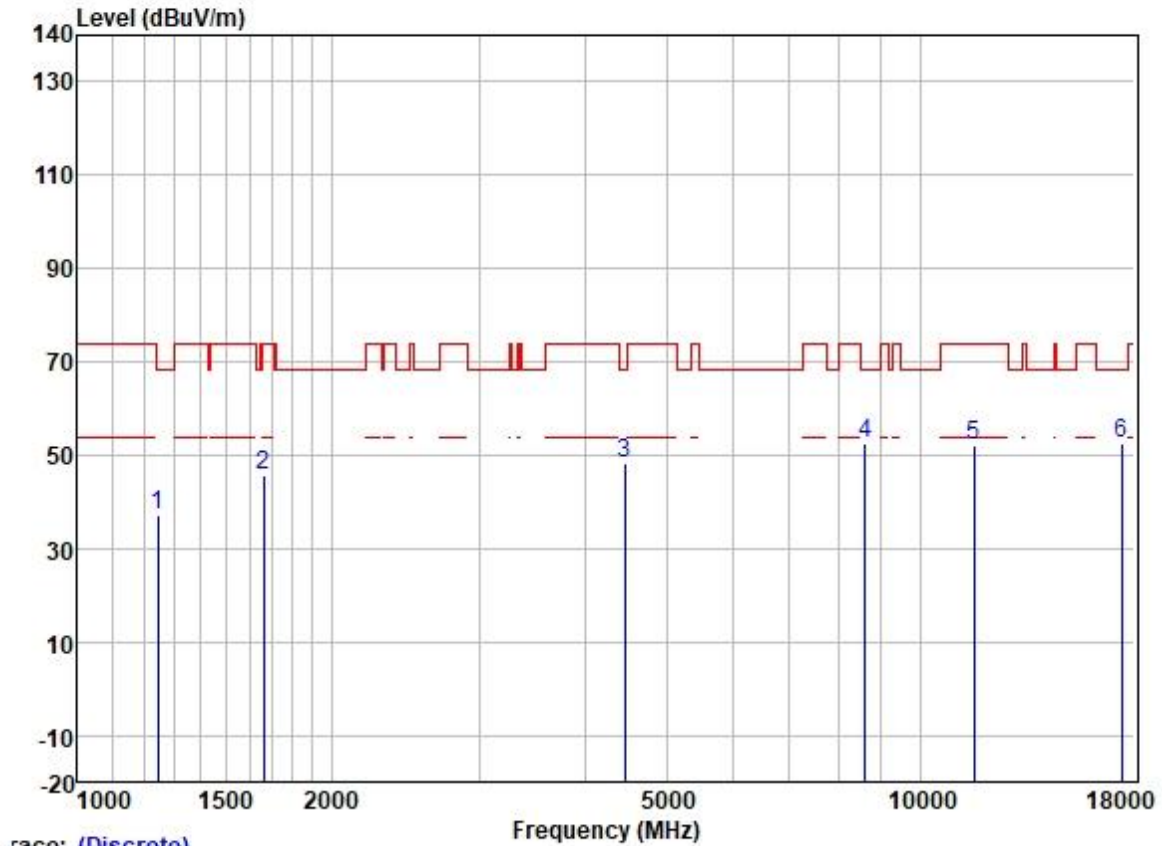
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1135.617	49.35	24.45	2.25	38.43	37.62	74.00	-36.38	VERTICAL Peak
2	1663.137	52.07	25.65	2.80	37.91	42.61	74.00	-31.39	VERTICAL Peak
3	4430.628	49.82	30.72	4.78	36.81	48.51	68.20	-19.69	VERTICAL Peak
4	8866.062	45.37	37.36	7.38	37.53	52.58	68.20	-15.62	VERTICAL Peak
5	11461.000	41.84	39.91	8.37	37.15	52.97	74.00	-21.03	VERTICAL Peak
6	17191.500	34.54	42.79	9.92	35.33	51.92	68.20	-16.28	VERTICAL Peak

Test Mode: 07; Polarity: Horizontal; Modulation: OFDM; Channel: middle



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Remark
1	1148.823	48.34	24.49	2.34	38.42	36.75	74.00	-37.25	HORIZONTAL Peak
2	1687.347	48.35	25.69	2.80	37.91	38.93	74.00	-35.07	HORIZONTAL Peak
3	4392.376	50.23	30.66	4.70	36.81	48.78	74.00	-25.22	HORIZONTAL Peak
4	8789.516	45.55	37.33	7.24	37.54	52.58	68.20	-15.62	HORIZONTAL Peak
5	11575.000	41.48	39.78	8.38	37.14	52.50	74.00	-21.50	HORIZONTAL Peak
6	17362.500	33.06	43.57	10.53	35.32	51.84	68.20	-16.36	HORIZONTAL Peak

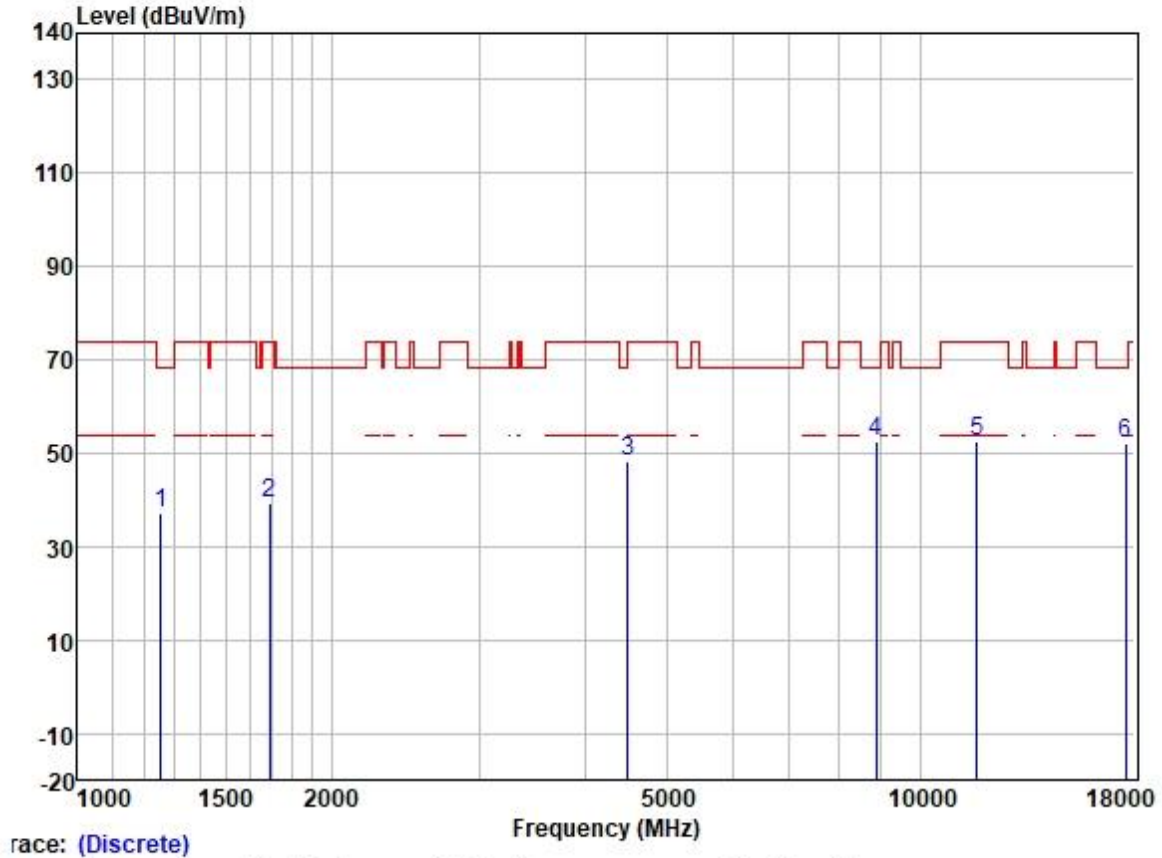
Test Mode: 07; Polarity: Vertical; Modulation: OFDM; Channel: middle



Trace: (Discrete)

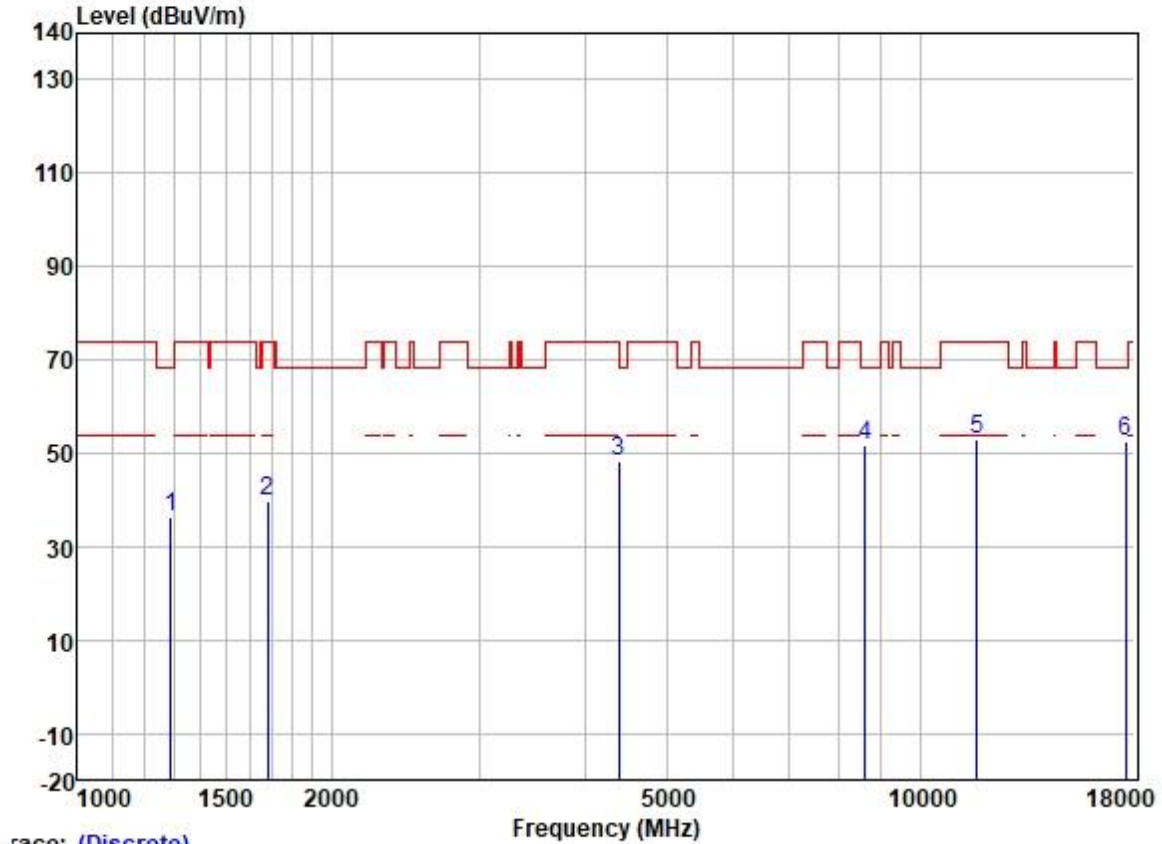
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1245.663	48.23	25.00	2.33	38.35	37.21	68.20	-30.99	VERTICAL Peak
2	1663.137	55.15	25.65	2.80	37.91	45.69	74.00	-28.31	VERTICAL Peak
3	4456.315	49.57	30.75	4.88	36.81	48.39	68.20	-19.81	VERTICAL Peak
4	8613.468	45.97	37.24	6.88	37.56	52.53	68.20	-15.67	VERTICAL Peak
5	11575.000	41.07	39.78	8.38	37.14	52.09	74.00	-21.91	VERTICAL Peak
6	17362.500	33.89	43.57	10.53	35.32	52.67	68.20	-15.53	VERTICAL Peak

Test Mode: 07; 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	1256.512	48.08	25.05	2.38	38.35	37.16	68.20	-31.04	HORIZONTAL	Peak
2	1692.231	48.67	25.70	2.80	37.89	39.28	74.00	-34.72	HORIZONTAL	Peak
3	4495.125	49.23	30.80	5.05	36.82	48.26	68.20	-19.94	HORIZONTAL	Peak
4	8866.062	45.50	37.36	7.38	37.53	52.71	68.20	-15.49	HORIZONTAL	Peak
5	11689.000	41.65	39.49	8.32	37.13	52.33	74.00	-21.67	HORIZONTAL	Peak
6	17533.500	32.54	43.97	10.76	35.31	51.96	68.20	-16.24	HORIZONTAL	Peak

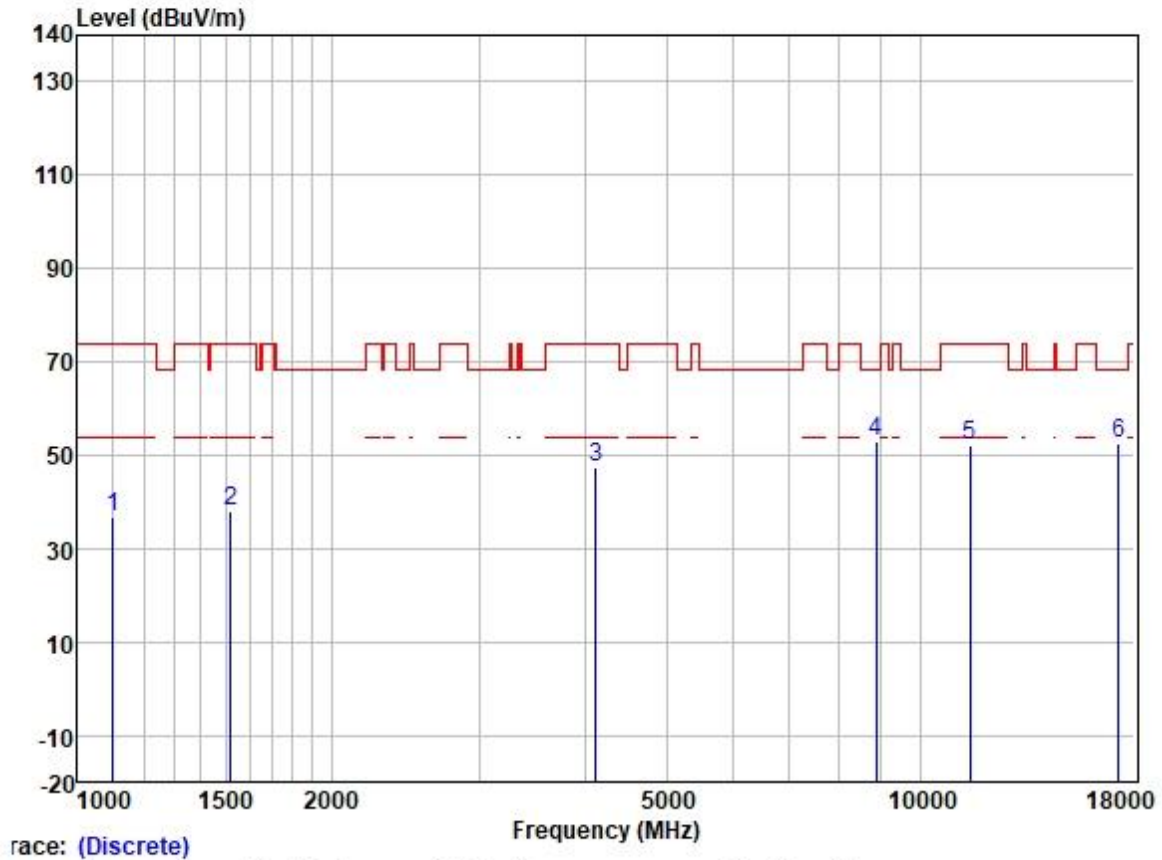
Test Mode: 07; Polarity: Vertical; Modulation: OFDM; Channel: High



Trace: (Discrete)

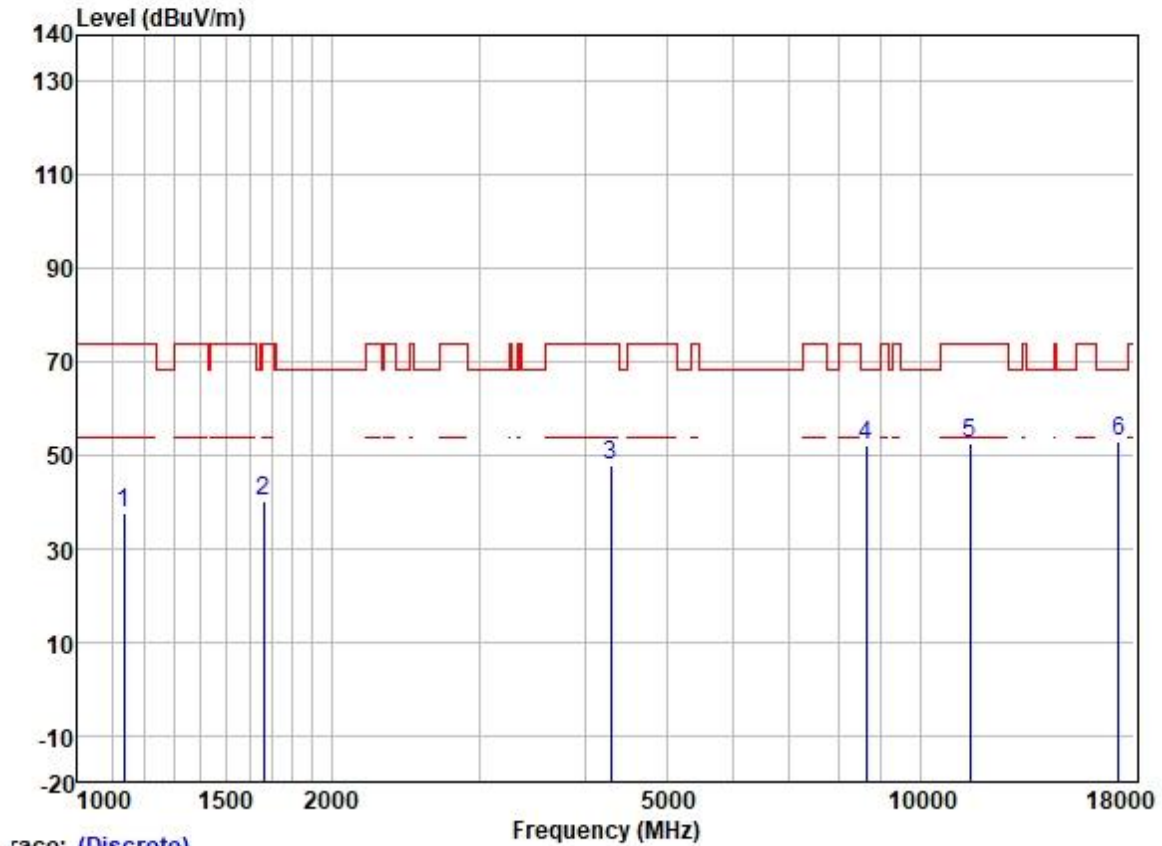
	Freq	Read	Antenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1289.627	46.97	25.17	2.55	38.31	36.38	68.20	-31.82	VERTICAL	Peak
2	1682.477	49.00	25.68	2.80	37.91	39.57	74.00	-34.43	VERTICAL	Peak
3	4392.376	49.60	30.66	4.70	36.81	48.15	74.00	-25.85	VERTICAL	Peak
4	8613.468	45.33	37.24	6.88	37.56	51.89	68.20	-16.31	VERTICAL	Peak
5	11689.000	42.29	39.49	8.32	37.13	52.97	74.00	-21.03	VERTICAL	Peak
6	17533.500	33.08	43.97	10.76	35.31	52.50	68.20	-15.70	VERTICAL	Peak

Test Mode: 08; Polarity: Horizontal; Modulation: OFDM; Channel: Low



	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	1100.079	48.66	24.37	2.30	38.45	36.88	74.00	-37.12	HORIZONTAL Peak
2	1520.598	47.86	25.51	2.80	38.07	38.10	74.00	-35.90	HORIZONTAL Peak
3	4121.768	49.74	29.98	4.60	36.80	47.52	74.00	-26.48	HORIZONTAL Peak
4	8866.062	45.61	37.36	7.38	37.53	52.82	68.20	-15.38	HORIZONTAL Peak
5	11471.000	40.79	39.91	8.37	37.15	51.92	74.00	-22.08	HORIZONTAL Peak
6	17206.500	35.20	42.79	9.92	35.33	52.58	68.20	-15.62	HORIZONTAL Peak

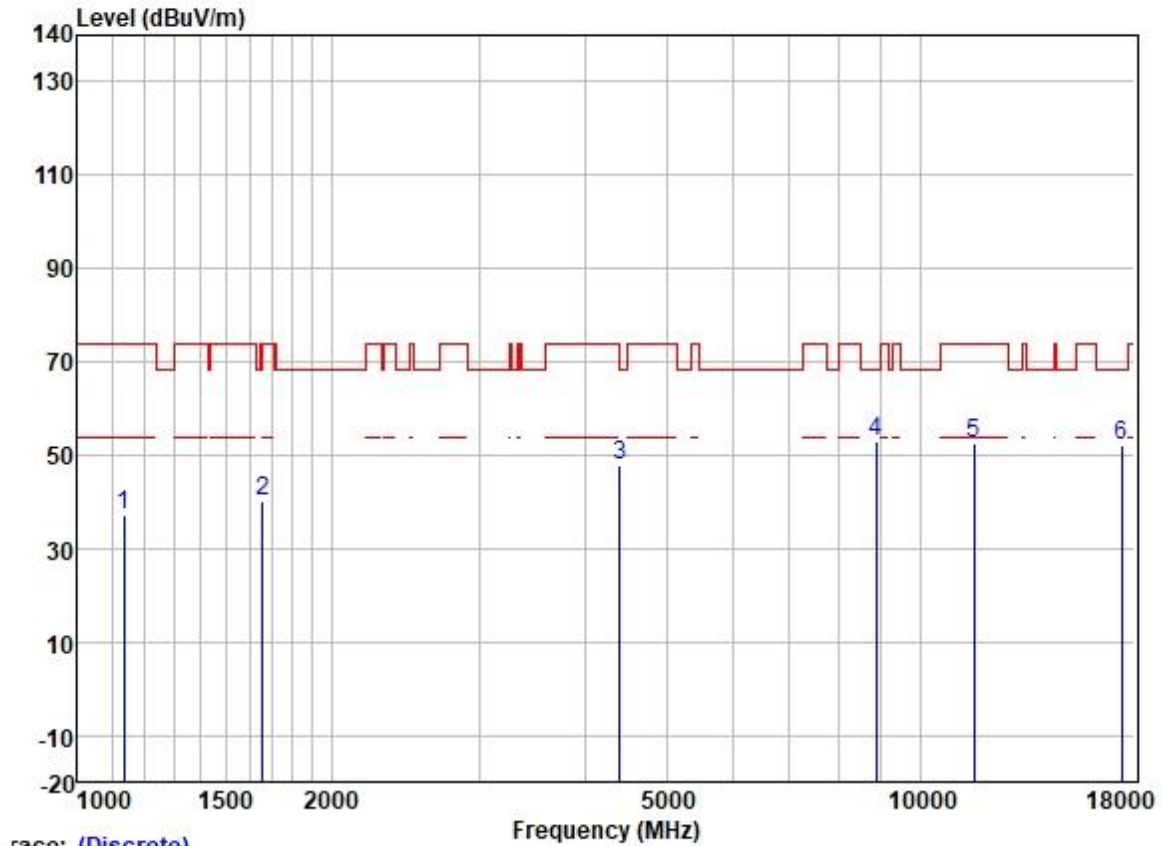
Test Mode: 08; Polarity: Vertical; Modulation: OFDM; Channel: Low



Trace: (Discrete)

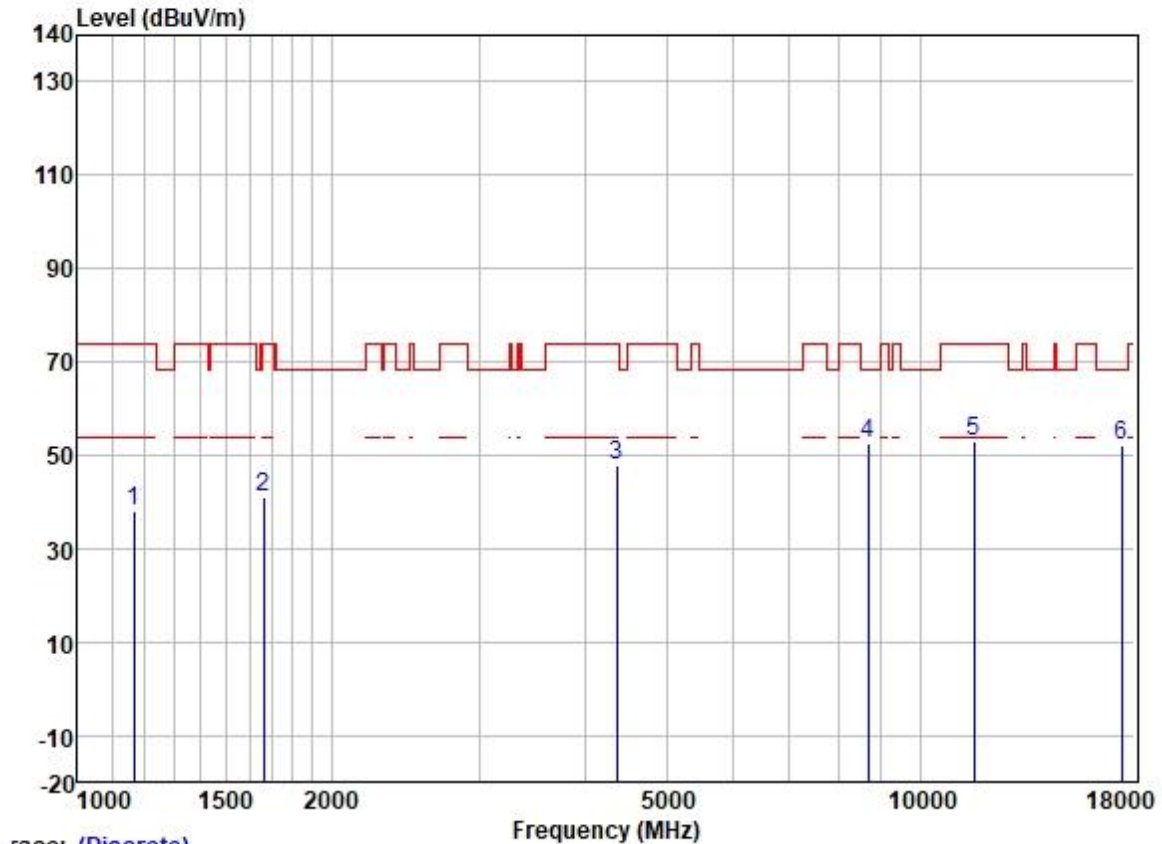
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1135.617	49.41	24.45	2.25	38.43	37.68	74.00	-36.32	VERTICAL Peak
2	1663.137	49.66	25.65	2.80	37.91	40.20	74.00	-33.80	VERTICAL Peak
3	4291.977	49.40	30.45	4.64	36.81	47.68	74.00	-26.32	VERTICAL Peak
4	8638.399	45.43	37.26	6.92	37.55	52.06	68.20	-16.14	VERTICAL Peak
5	11471.000	41.41	39.91	8.37	37.15	52.54	74.00	-21.46	VERTICAL Peak
6	17206.500	35.40	42.79	9.92	35.33	52.78	68.20	-15.42	VERTICAL Peak

Test Mode: 08; Polarity: Horizontal; 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	dB		
1	1135.617	48.93	24.45	2.25	38.43	37.20	74.00	-36.80	HORIZONTAL Peak
2	1658.337	49.44	25.65	2.80	37.93	39.96	68.20	-28.24	HORIZONTAL Peak
3	4405.090	49.11	30.68	4.70	36.81	47.68	68.20	-20.52	HORIZONTAL Peak
4	8866.062	45.54	37.36	7.38	37.53	52.75	68.20	-15.45	HORIZONTAL Peak
5	11575.000	41.67	39.78	8.38	37.14	52.69	74.00	-21.31	HORIZONTAL Peak
6	17362.500	33.47	43.57	10.53	35.32	52.25	68.20	-15.95	HORIZONTAL Peak

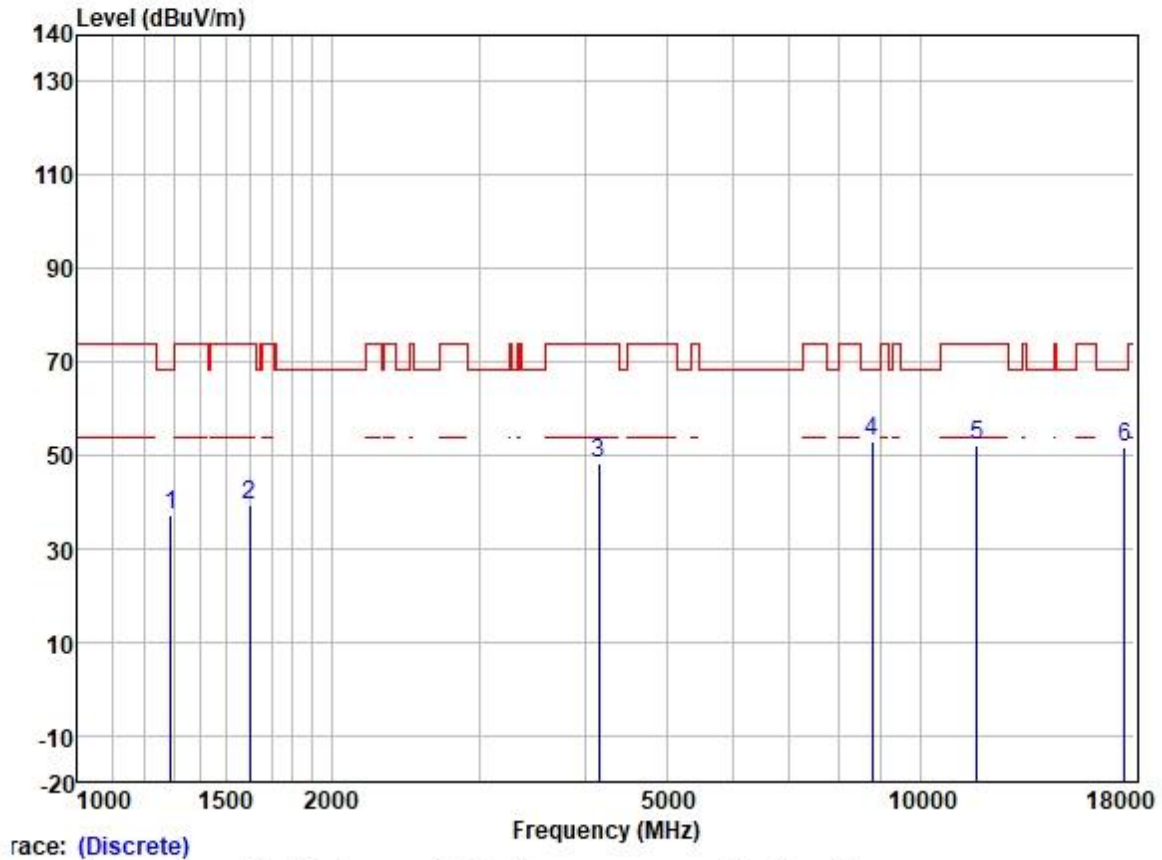
Test Mode: 08; Polarity: Vertical; Modulation: OFDM; Channel: middle



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	dB		
1	1165.546	49.63	24.54	2.39	38.40	38.16	74.00	-35.84	VERTICAL Peak
2	1663.137	50.42	25.65	2.80	37.91	40.96	74.00	-33.04	VERTICAL Peak
3	4367.058	49.29	30.62	4.68	36.81	47.78	74.00	-26.22	VERTICAL Peak
4	8688.480	45.87	37.28	7.02	37.55	52.62	68.20	-15.58	VERTICAL Peak
5	11575.000	41.92	39.78	8.38	37.14	52.94	74.00	-21.06	VERTICAL Peak
6	17362.500	33.29	43.57	10.53	35.32	52.07	68.20	-16.13	VERTICAL Peak

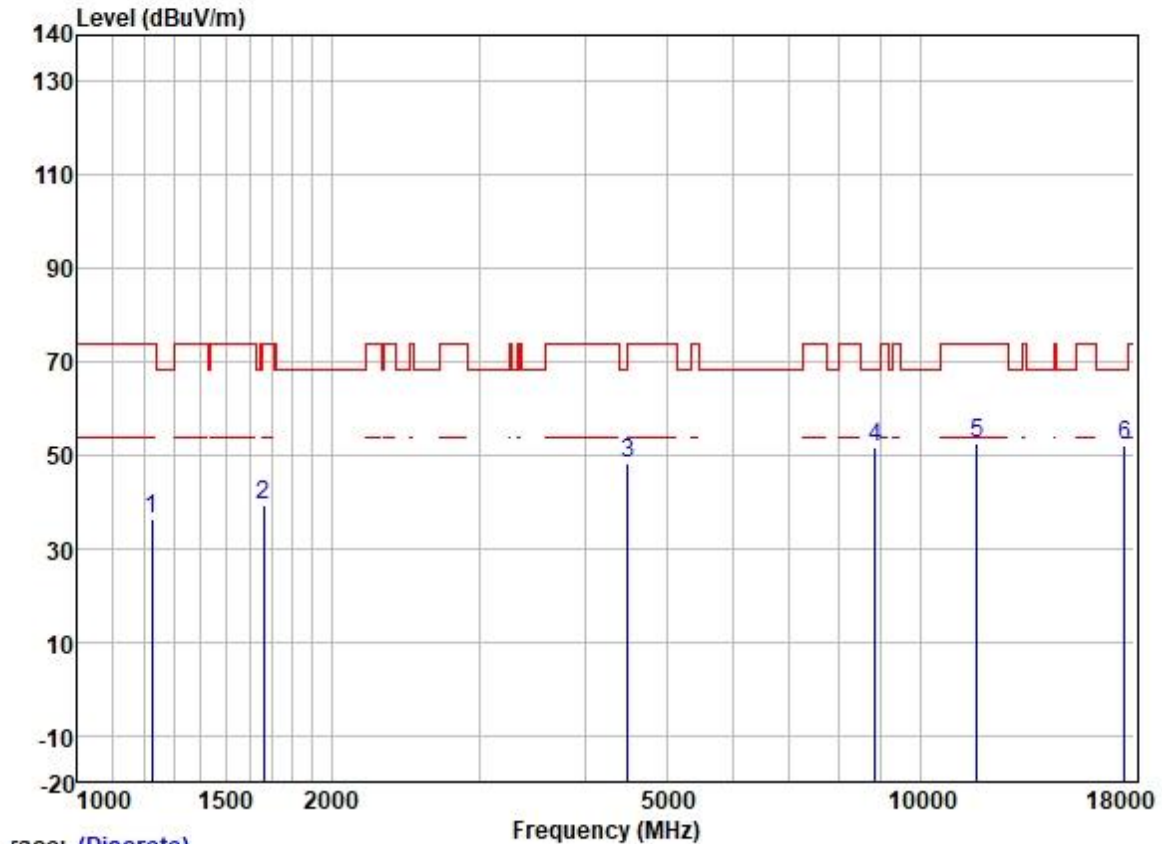
Test Mode: 08; Polarity: Horizontal; Modulation: OFDM; Channel: High



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	1289.627	47.78	25.17	2.55	38.31	37.19	68.20	-31.01	HORIZONTAL	Peak
2	1601.804	48.97	25.58	2.80	37.98	39.37	74.00	-34.63	HORIZONTAL	Peak
3	4157.664	50.23	30.06	4.60	36.80	48.09	74.00	-25.91	HORIZONTAL	Peak
4	8764.146	45.88	37.32	7.19	37.54	52.85	68.20	-15.35	HORIZONTAL	Peak
5	11679.000	41.34	39.57	8.34	37.13	52.12	74.00	-21.88	HORIZONTAL	Peak
6	17518.500	32.15	43.97	10.76	35.31	51.57	68.20	-16.63	HORIZONTAL	Peak

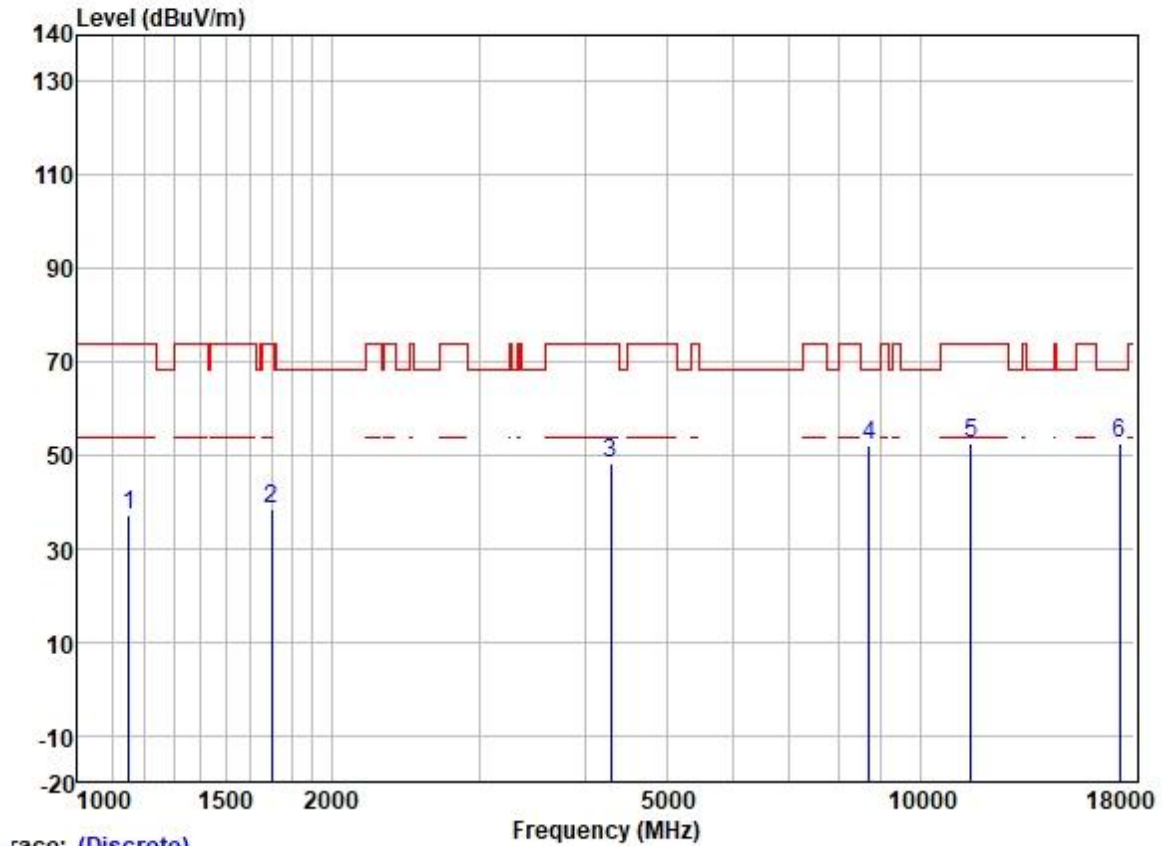
Test Mode: 08; Polarity: Vertical; Modulation: OFDM; Channel: High



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	dBuV/m	dB	
1	1224.247	47.67	24.85	2.31	38.37	36.46	74.00	-37.54	VERTICAL Peak
2	1663.137	48.61	25.65	2.80	37.91	39.15	74.00	-34.85	VERTICAL Peak
3	4495.125	49.12	30.80	5.05	36.82	48.15	68.20	-20.05	VERTICAL Peak
4	8840.473	44.42	37.35	7.34	37.53	51.58	68.20	-16.62	VERTICAL Peak
5	11679.000	41.91	39.57	8.34	37.13	52.69	74.00	-21.31	VERTICAL Peak
6	17518.500	32.64	43.97	10.76	35.31	52.06	68.20	-16.14	VERTICAL Peak

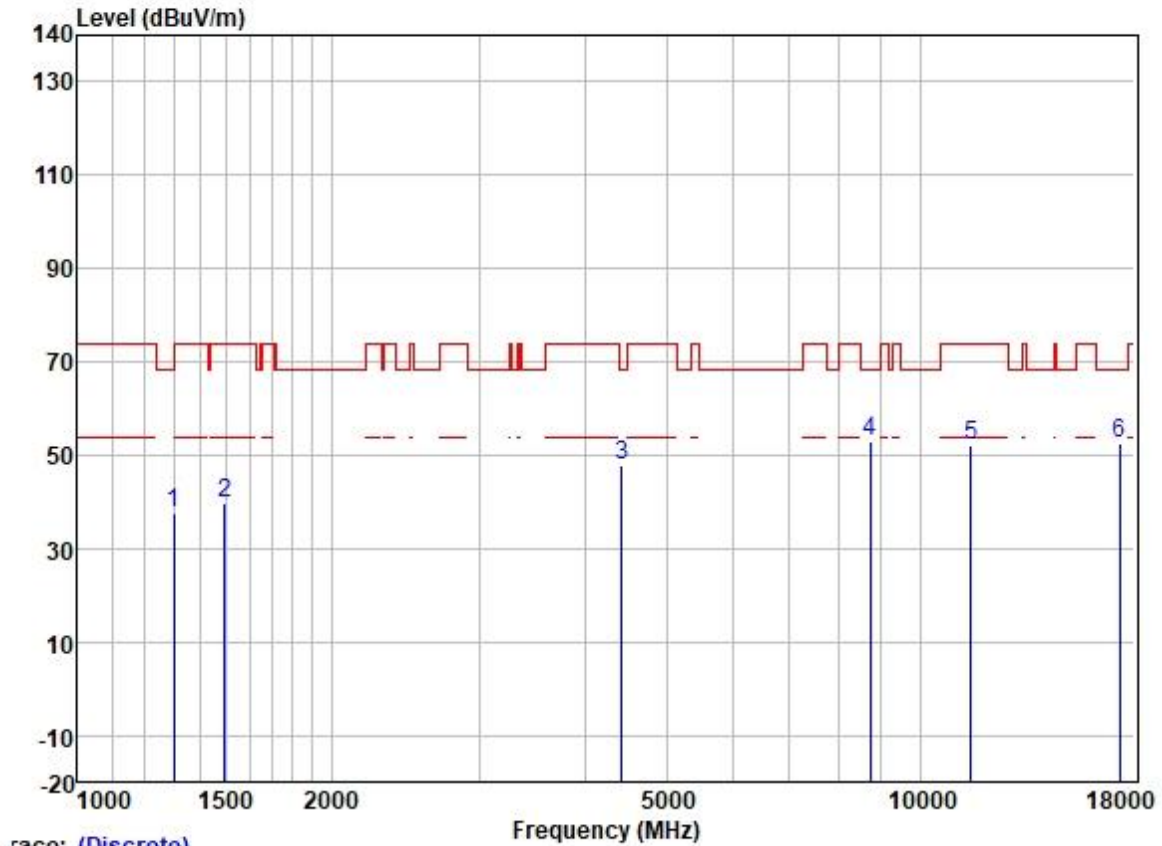
Test Mode: 09; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Trace: (Discrete)

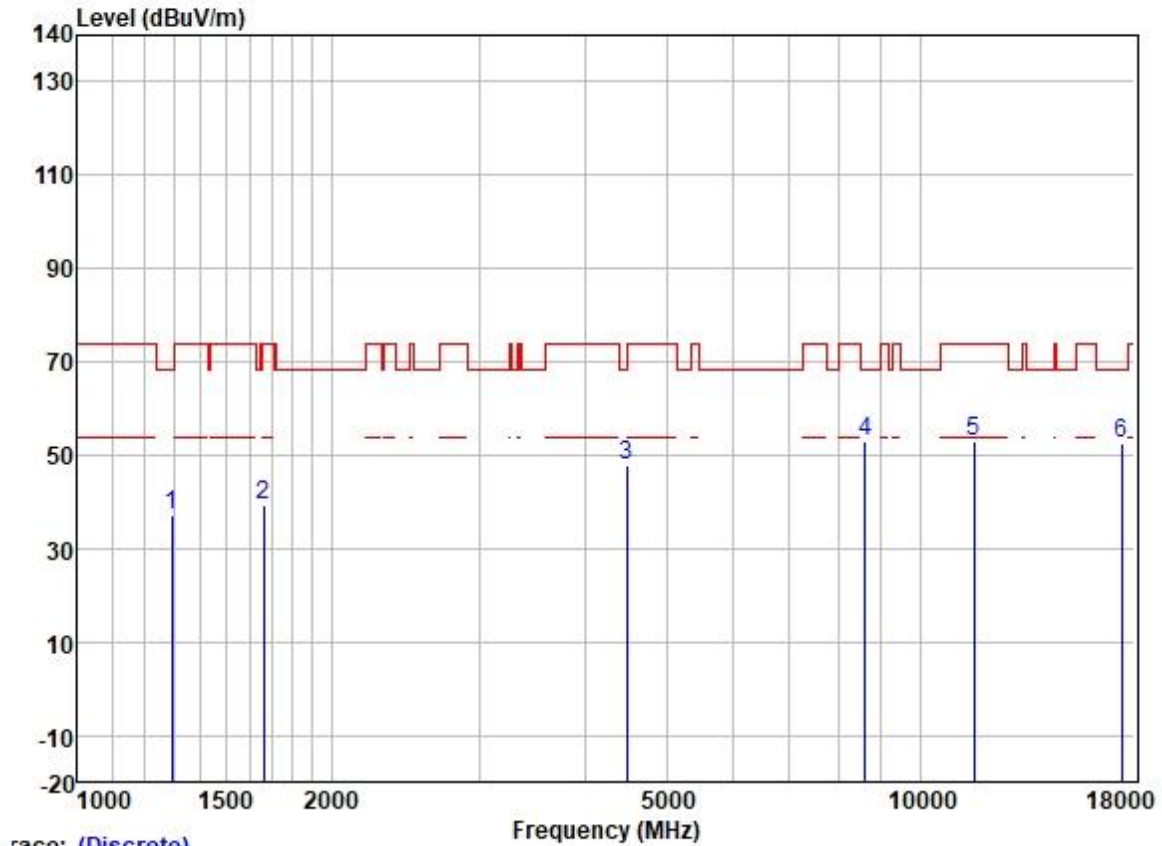
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1152.148	48.54	24.50	2.36	38.42	36.98	74.00	-37.02	HORIZONTAL Peak
2	1697.129	48.03	25.71	2.80	37.89	38.65	74.00	-35.35	HORIZONTAL Peak
3	4291.977	49.78	30.45	4.64	36.81	48.06	74.00	-25.94	HORIZONTAL Peak
4	8713.630	45.41	37.30	7.07	37.55	52.23	68.20	-15.97	HORIZONTAL Peak
5	11491.000	41.34	39.90	8.41	37.15	52.50	74.00	-21.50	HORIZONTAL Peak
6	17236.500	34.62	43.01	10.08	35.33	52.38	68.20	-15.82	HORIZONTAL Peak

Test Mode: 09; Polarity: Vertical; Modulation: OFDM; Channel: Low



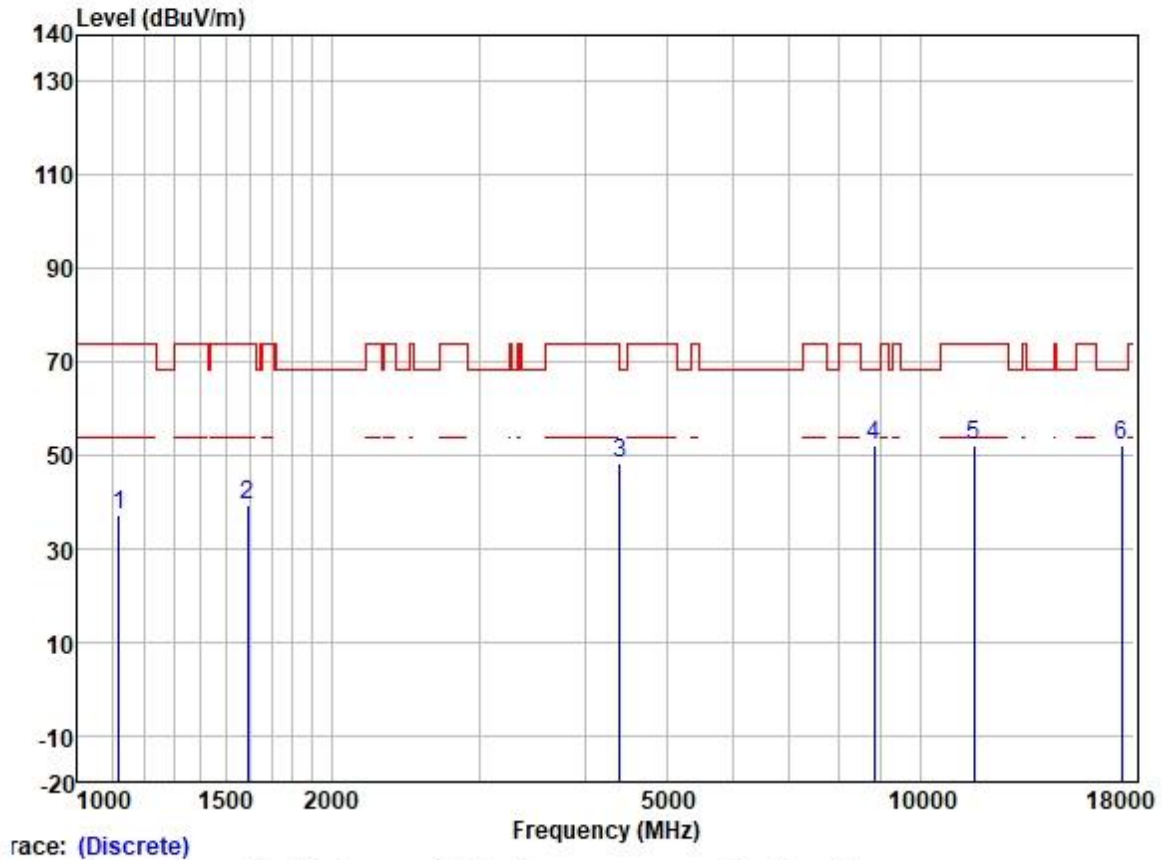
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1300.858	48.13	25.20	2.60	38.31	37.62	74.00	-36.38	VERTICAL Peak
2	1494.455	49.41	25.50	2.79	38.10	39.60	74.00	-34.40	VERTICAL Peak
3	4430.628	49.28	30.72	4.78	36.81	47.97	68.20	-20.23	VERTICAL Peak
4	8738.852	46.07	37.31	7.13	37.54	52.97	68.20	-15.23	VERTICAL Peak
5	11491.000	41.07	39.90	8.41	37.15	52.23	74.00	-21.77	VERTICAL Peak
6	17236.500	34.84	43.01	10.08	35.33	52.60	68.20	-15.60	VERTICAL Peak

Test Mode: 09; 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	1293.359	47.82	25.18	2.57	38.31	37.26	68.20	-30.94	HORIZONTAL	Peak
2	1663.137	48.97	25.65	2.80	37.91	39.51	74.00	-34.49	HORIZONTAL	Peak
3	4482.150	48.99	30.78	4.99	36.81	47.95	68.20	-20.25	HORIZONTAL	Peak
4	8613.468	46.41	37.24	6.88	37.56	52.97	68.20	-15.23	HORIZONTAL	Peak
5	11575.000	41.81	39.78	8.38	37.14	52.83	74.00	-21.17	HORIZONTAL	Peak
6	17362.500	33.56	43.57	10.53	35.32	52.34	68.20	-15.86	HORIZONTAL	Peak

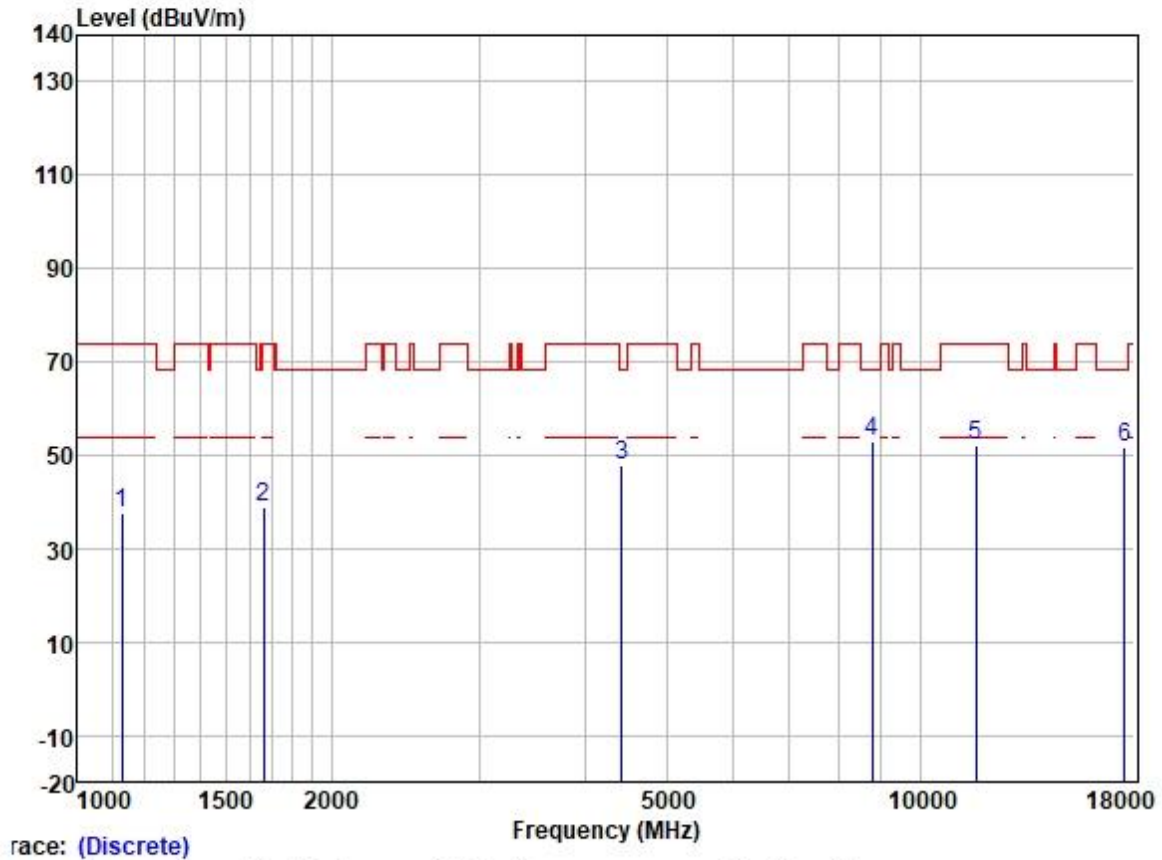
Test Mode: 09; Polarity: Vertical; Modulation: OFDM; Channel: middle



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	dB		
1	1119.323	49.05	24.41	2.24	38.43	37.27	74.00	-36.73	VERTICAL Peak
2	1592.571	48.86	25.57	2.80	37.98	39.25	74.00	-34.75	VERTICAL Peak
3	4405.090	49.73	30.68	4.70	36.81	48.30	68.20	-19.90	VERTICAL Peak
4	8814.957	44.98	37.34	7.29	37.53	52.08	68.20	-16.12	VERTICAL Peak
5	11575.000	41.09	39.78	8.38	37.14	52.11	74.00	-21.89	VERTICAL Peak
6	17362.500	33.42	43.57	10.53	35.32	52.20	68.20	-16.00	VERTICAL Peak

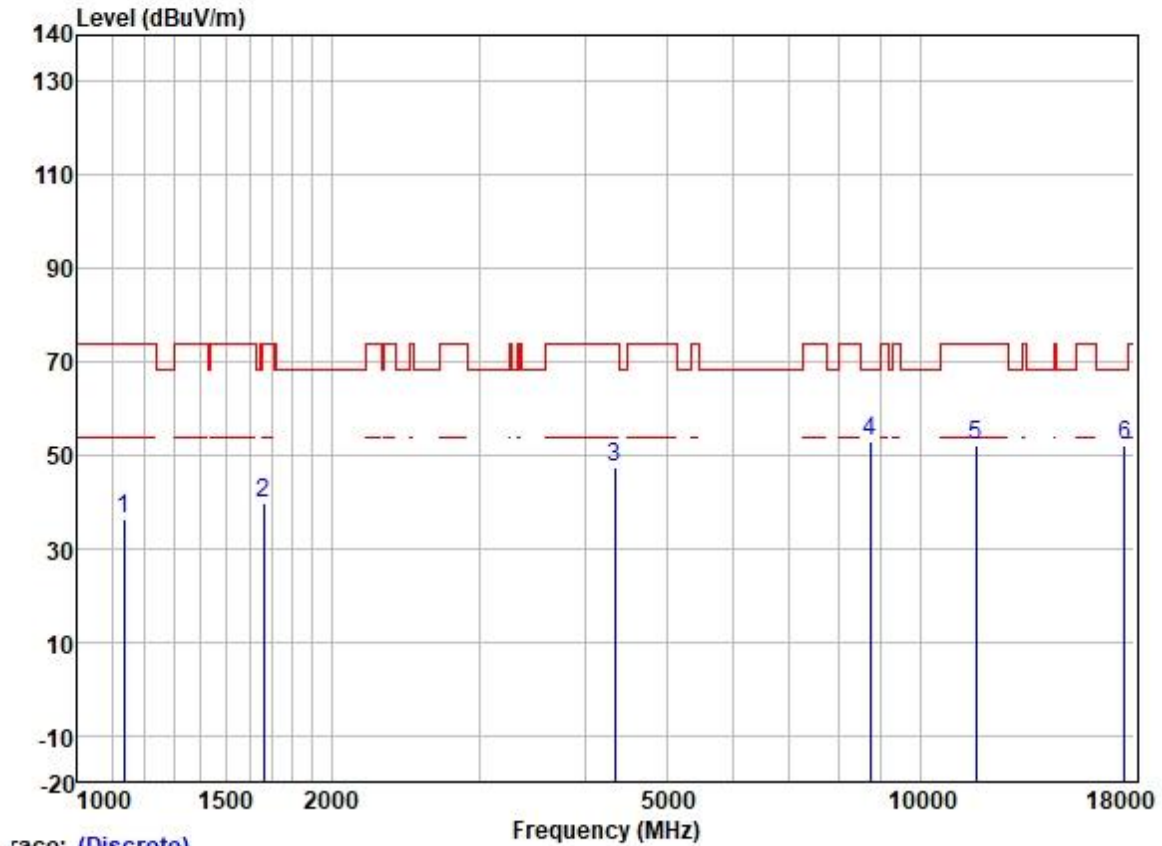
Test Mode: 09; Polarity: Horizontal; Modulation: OFDM; Channel: High



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	1129.072	49.24	24.43	2.20	38.43	37.44	74.00	-36.56	HORIZONTAL Peak
2	1663.137	48.19	25.65	2.80	37.91	38.73	74.00	-35.27	HORIZONTAL Peak
3	4430.628	49.26	30.72	4.78	36.81	47.95	68.20	-20.25	HORIZONTAL Peak
4	8764.146	45.81	37.32	7.19	37.54	52.78	68.20	-15.42	HORIZONTAL Peak
5	11659.000	41.33	39.57	8.34	37.13	52.11	74.00	-21.89	HORIZONTAL Peak
6	17488.500	32.54	43.90	10.77	35.32	51.89	68.20	-16.31	HORIZONTAL Peak

Test Mode: 09; Polarity: Vertical; Modulation: OFDM; Channel: High



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	dB		
1	1135.617	48.11	24.45	2.25	38.43	36.38	74.00	-37.62	VERTICAL Peak
2	1663.137	49.03	25.65	2.80	37.91	39.57	74.00	-34.43	VERTICAL Peak
3	4341.886	48.96	30.57	4.67	36.81	47.39	74.00	-26.61	VERTICAL Peak
4	8738.852	45.87	37.31	7.13	37.54	52.77	68.20	-15.43	VERTICAL Peak
5	11659.000	41.40	39.57	8.34	37.13	52.18	74.00	-21.82	VERTICAL Peak
6	17488.500	32.93	43.90	10.77	35.32	52.28	68.20	-15.92	VERTICAL Peak

7.9 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

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

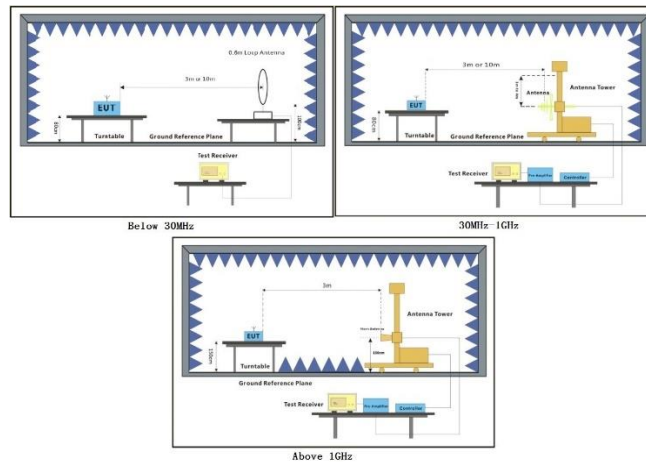
Operating Environment:

Temperature: 23.4 °C Humidity: 53.6 % RH Atmospheric Pressure: 1003 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	06	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	07	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

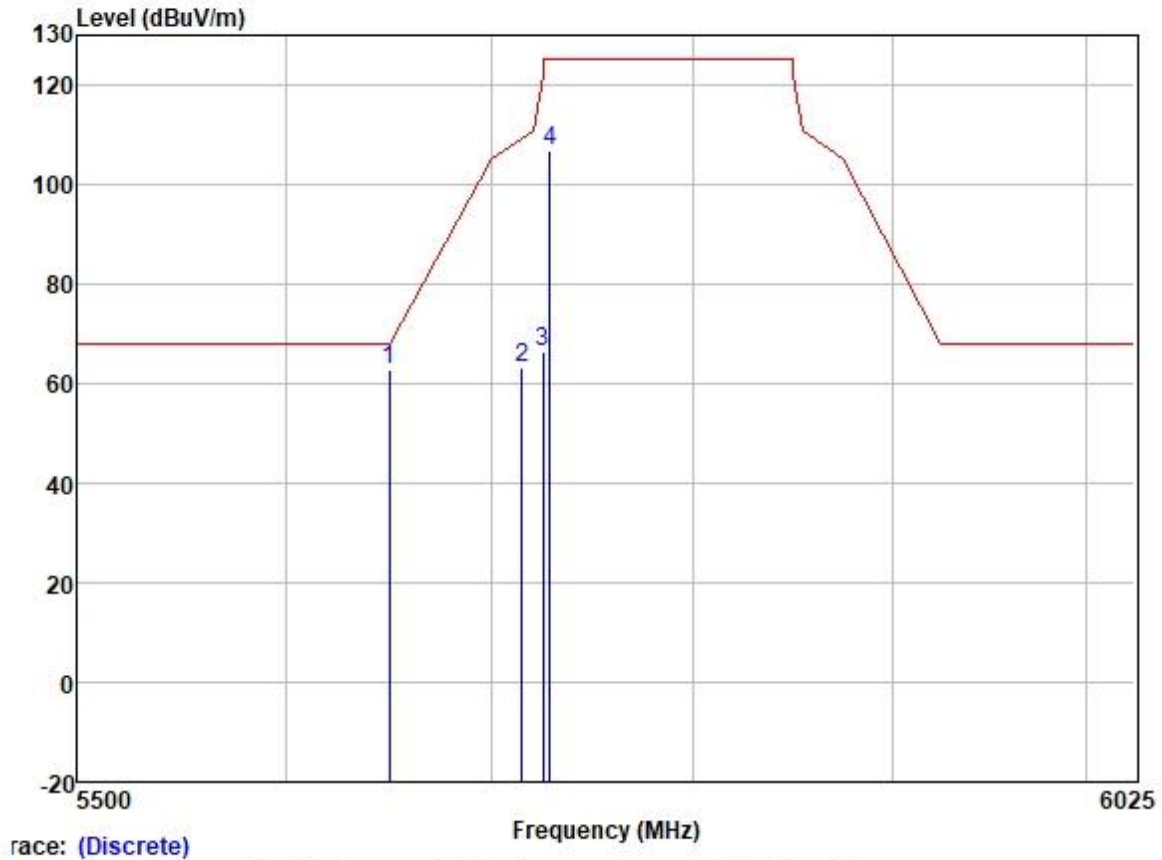
7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

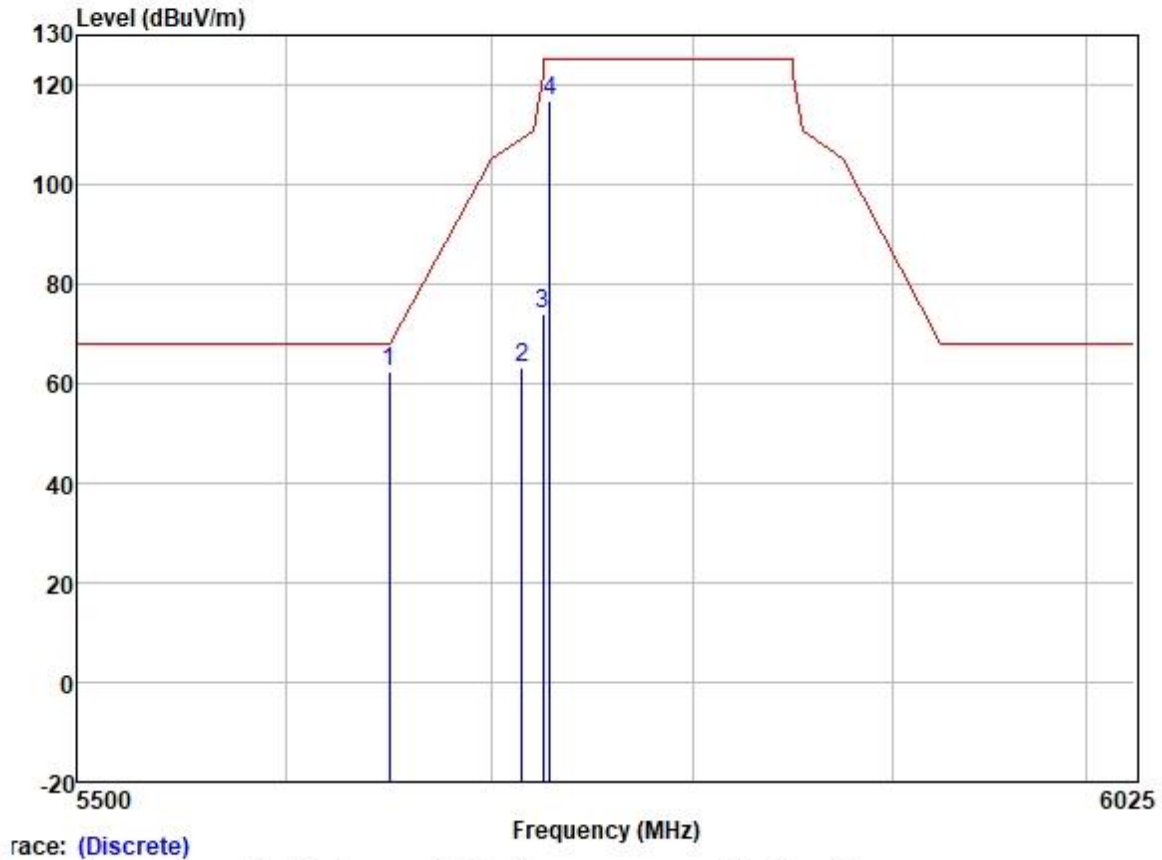
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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

Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: Low



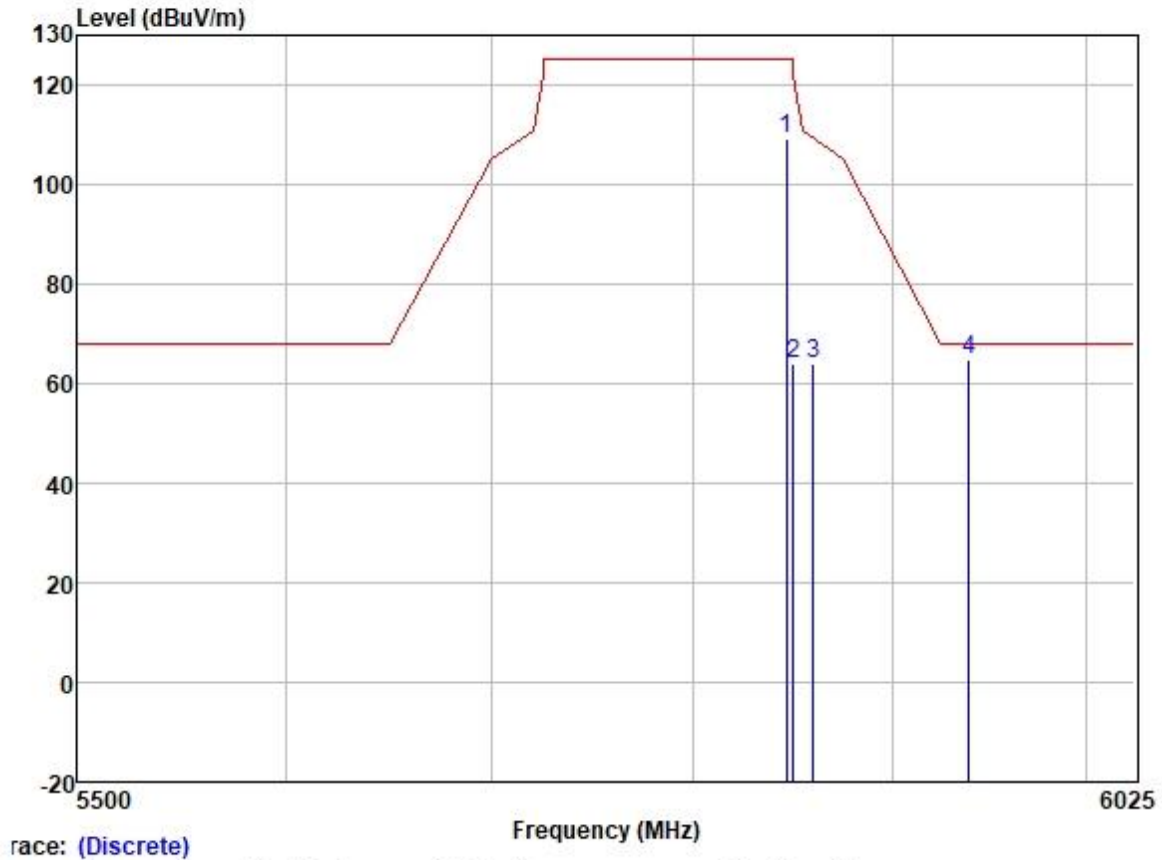
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.966	61.30	31.95	6.35	36.89	62.71	68.20	-5.49	HORIZONTAL	Peak
2	5715.000	61.61	32.04	6.33	36.89	63.09	109.40	-46.31	HORIZONTAL	Peak
3	5725.000	64.85	32.07	6.25	36.89	66.28	122.20	-55.92	HORIZONTAL	Peak
4	5728.500	105.41	32.07	6.25	36.89	106.84	125.20	-18.36	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: Low



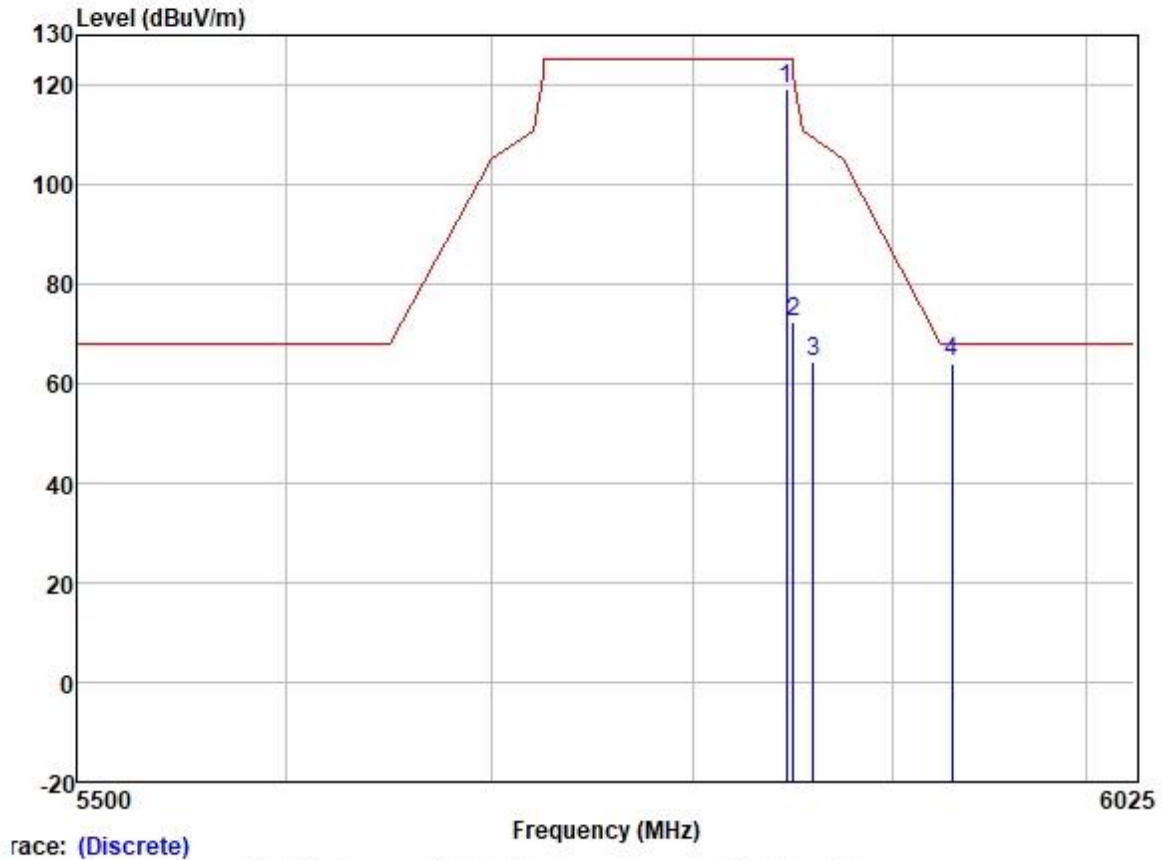
	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.827	61.09	31.95	6.35	36.89	62.50	68.20	-5.70	VERTICAL	Peak
2	5715.000	61.62	32.04	6.33	36.89	63.10	109.40	-46.30	VERTICAL	Peak
3	5725.000	72.52	32.07	6.25	36.89	73.95	122.20	-48.25	VERTICAL	Peak
4	5728.500	115.32	32.07	6.25	36.89	116.75	125.20	-8.45	VERTICAL	Peak

Test Mode: 05; Polarity: Horizontal; Modulation: OFDM; Channel: High



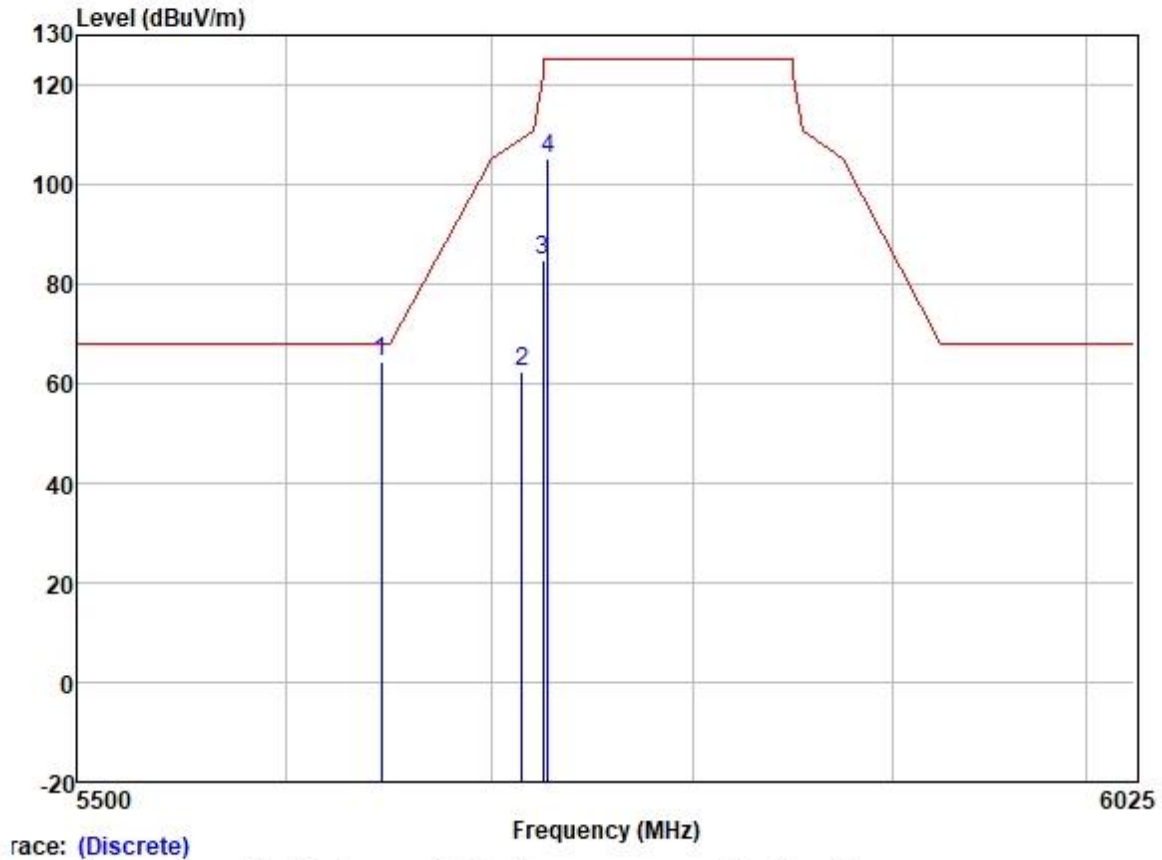
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5846.500	107.92	32.25	6.00	36.90	109.27	125.20	-15.93	HORIZONTAL	Peak
2	5850.000	62.77	32.25	6.00	36.90	64.12	122.20	-58.08	HORIZONTAL	Peak
3	5860.000	62.71	32.27	5.96	36.90	64.04	109.40	-45.36	HORIZONTAL	Peak
4	5939.458	63.20	32.34	6.00	36.90	64.64	68.20	-3.56	HORIZONTAL	Peak

Test Mode: 05; Polarity: Vertical; Modulation: OFDM; Channel: High



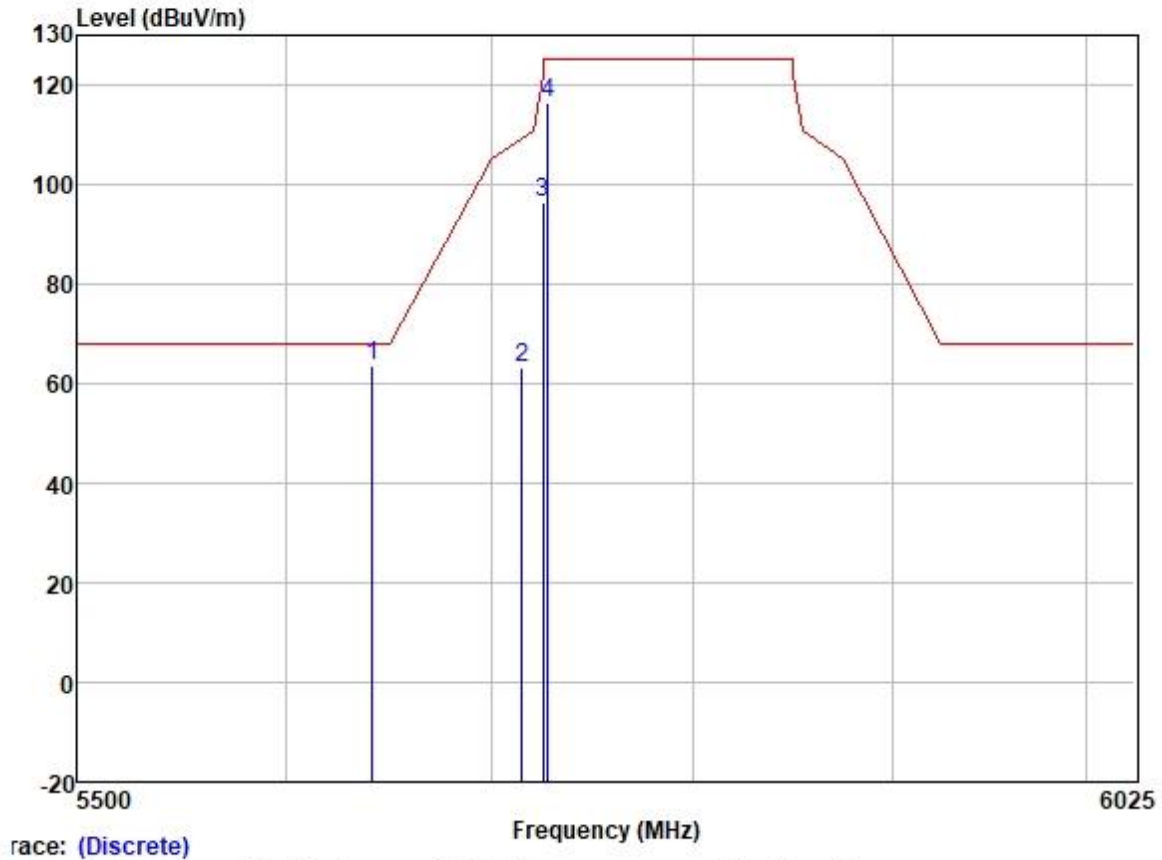
		ReadAntenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5846.500	117.83	32.25	6.00	36.90	119.18	125.20	-6.02	VERTICAL	Peak
2	5850.000	71.07	32.25	6.00	36.90	72.42	122.20	-49.78	VERTICAL	Peak
3	5860.000	62.92	32.27	5.96	36.90	64.25	109.40	-45.15	VERTICAL	Peak
4	5930.787	62.76	32.34	6.00	36.90	64.20	68.20	-4.00	VERTICAL	Peak

Test Mode: 06; Polarity: Horizontal; Modulation: OFDM; Channel: Low



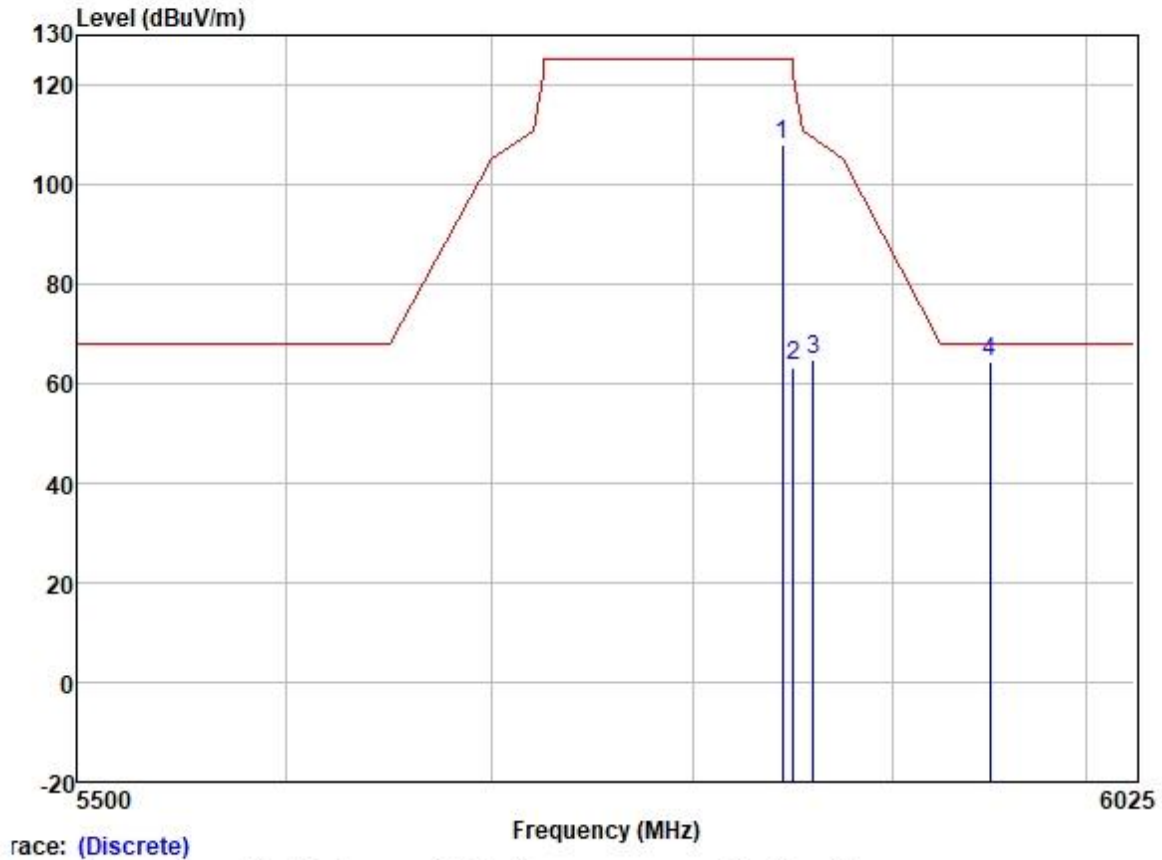
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5646.088	63.18	31.95	6.35	36.89	64.59	68.20	-3.61	HORIZONTAL	Peak
2	5715.000	60.76	32.04	6.33	36.89	62.24	109.40	-47.16	HORIZONTAL	Peak
3	5725.000	83.29	32.07	6.25	36.89	84.72	122.20	-37.48	HORIZONTAL	Peak
4	5727.500	103.84	32.07	6.25	36.89	105.27	125.20	-19.93	HORIZONTAL	Peak

Test Mode: 06; Polarity: Vertical; Modulation: OFDM; Channel: Low



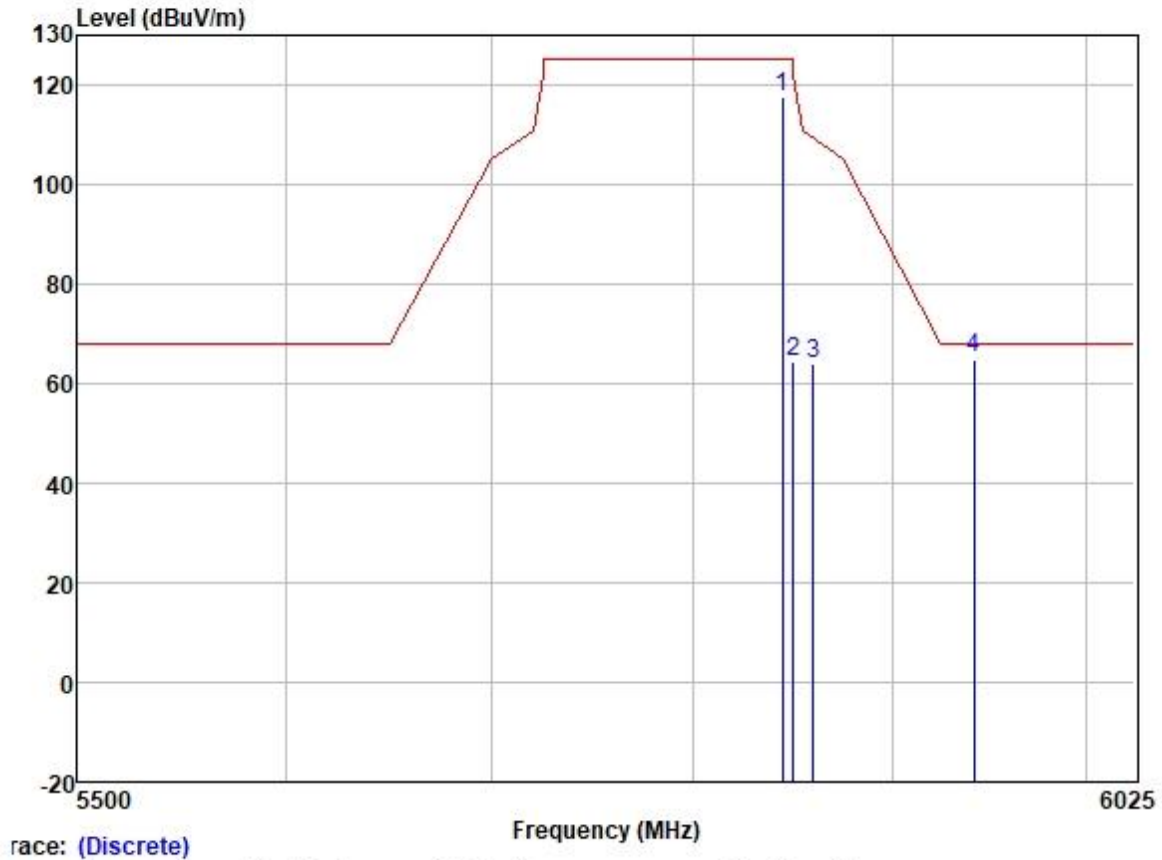
	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5641.798	62.25	31.95	6.35	36.89	63.66	68.20	-4.54	VERTICAL	Peak
2	5715.000	61.64	32.04	6.33	36.89	63.12	109.40	-46.28	VERTICAL	Peak
3	5725.000	94.82	32.07	6.25	36.89	96.25	122.20	-25.95	VERTICAL	Peak
4	5727.500	114.90	32.07	6.25	36.89	116.33	125.20	-8.87	VERTICAL	Peak

Test Mode: 06; Polarity: Horizontal; Modulation: OFDM; Channel: High



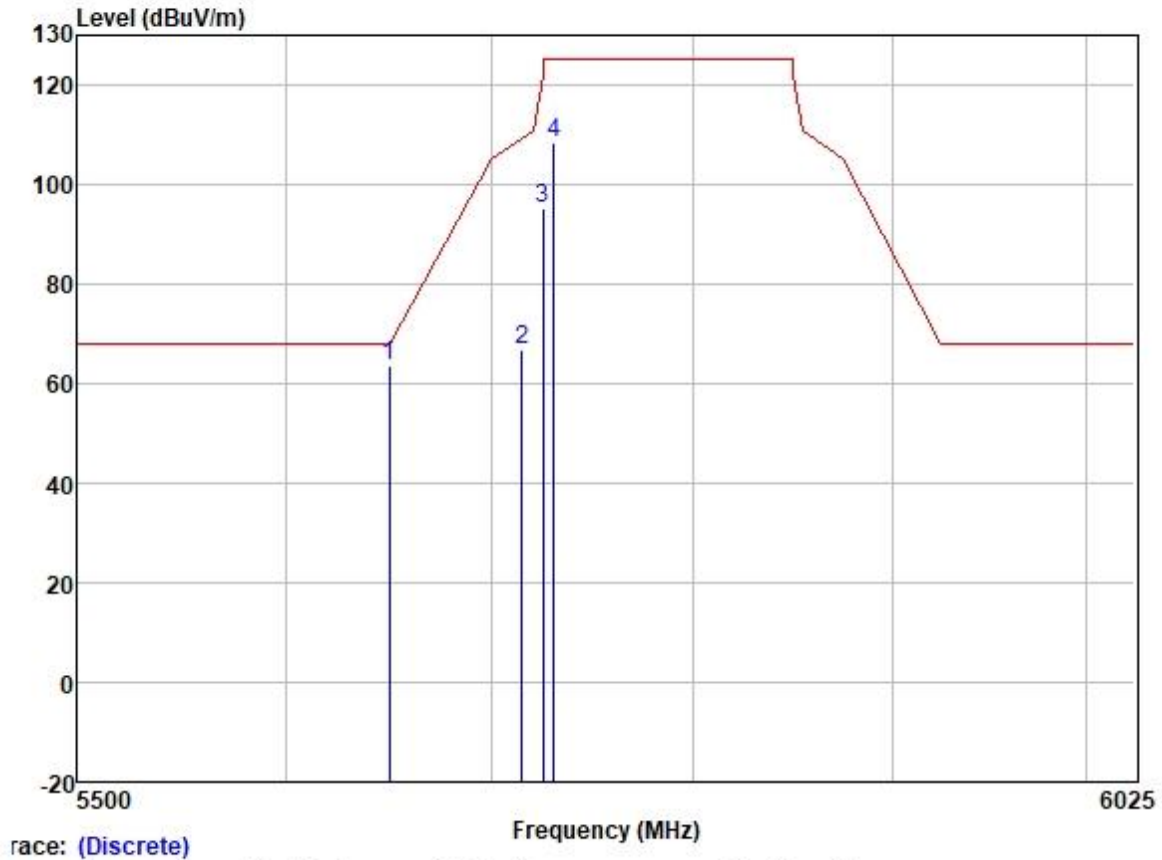
	Read	Antenna	Cable	Preamp	Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5844.500	106.54	32.25	6.00	36.90	107.89	125.20	-17.31
2	5850.000	62.05	32.25	6.00	36.90	63.40	122.20	-58.80
3	5860.000	63.29	32.27	5.96	36.90	64.62	109.40	-44.78
4	5949.982	62.73	32.36	6.05	36.90	64.24	68.20	-3.96

Test Mode: 06; Polarity: Vertical; Modulation: OFDM; Channel: High



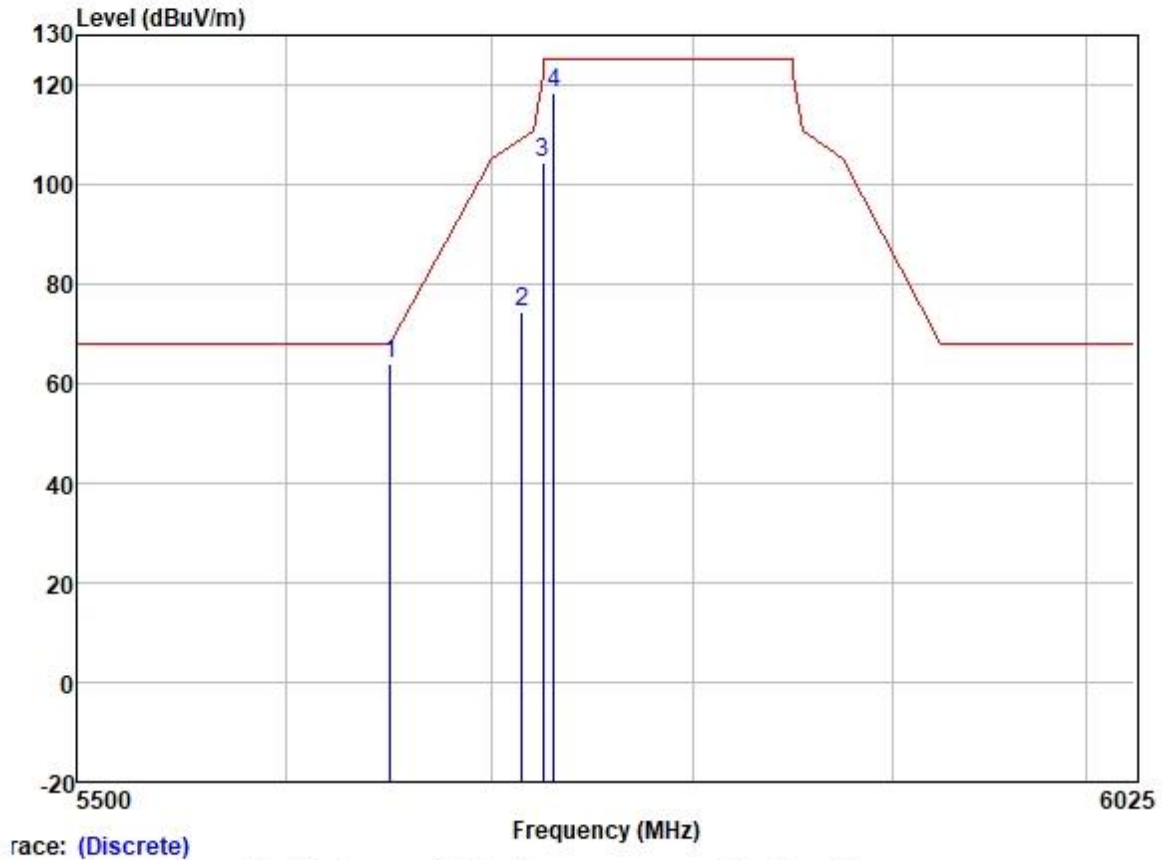
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5844.500	116.25	32.25	6.00	36.90	117.60	125.20	-7.60	VERTICAL	Peak
2	5850.000	63.10	32.25	6.00	36.90	64.45	122.20	-57.75	VERTICAL	Peak
3	5860.000	62.74	32.27	5.96	36.90	64.07	109.40	-45.33	VERTICAL	Peak
4	5941.962	63.49	32.36	6.05	36.90	65.00	68.20	-3.20	VERTICAL	Peak

Test Mode: 07; Polarity: Horizontal; Modulation: OFDM; Channel: Low



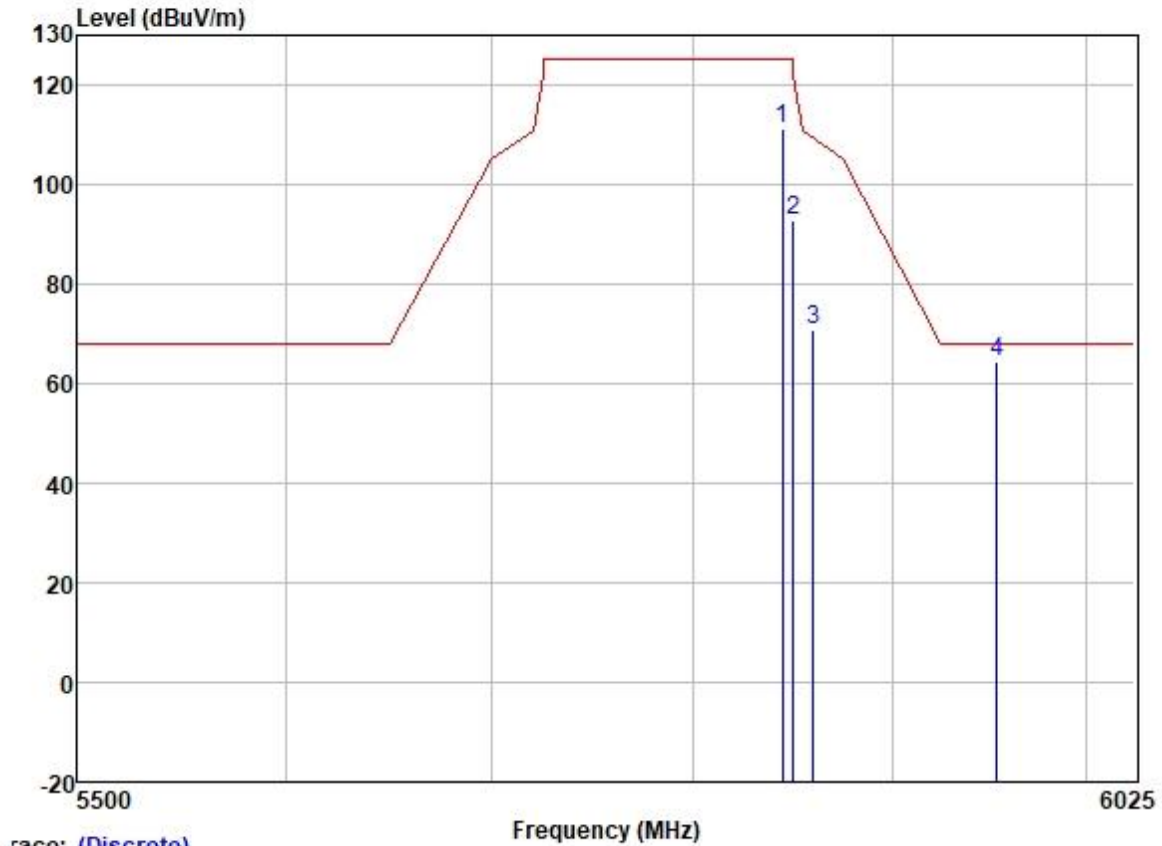
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.827	62.08	31.95	6.35	36.89	63.49	68.20	-4.71	HORIZONTAL	Peak
2	5715.000	65.41	32.04	6.33	36.89	66.89	109.40	-42.51	HORIZONTAL	Peak
3	5725.000	93.76	32.07	6.25	36.89	95.19	122.20	-27.01	HORIZONTAL	Peak
4	5730.500	106.80	32.07	6.25	36.89	108.23	125.20	-16.97	HORIZONTAL	Peak

Test Mode: 07; Polarity: Vertical; Modulation: OFDM; Channel: Low



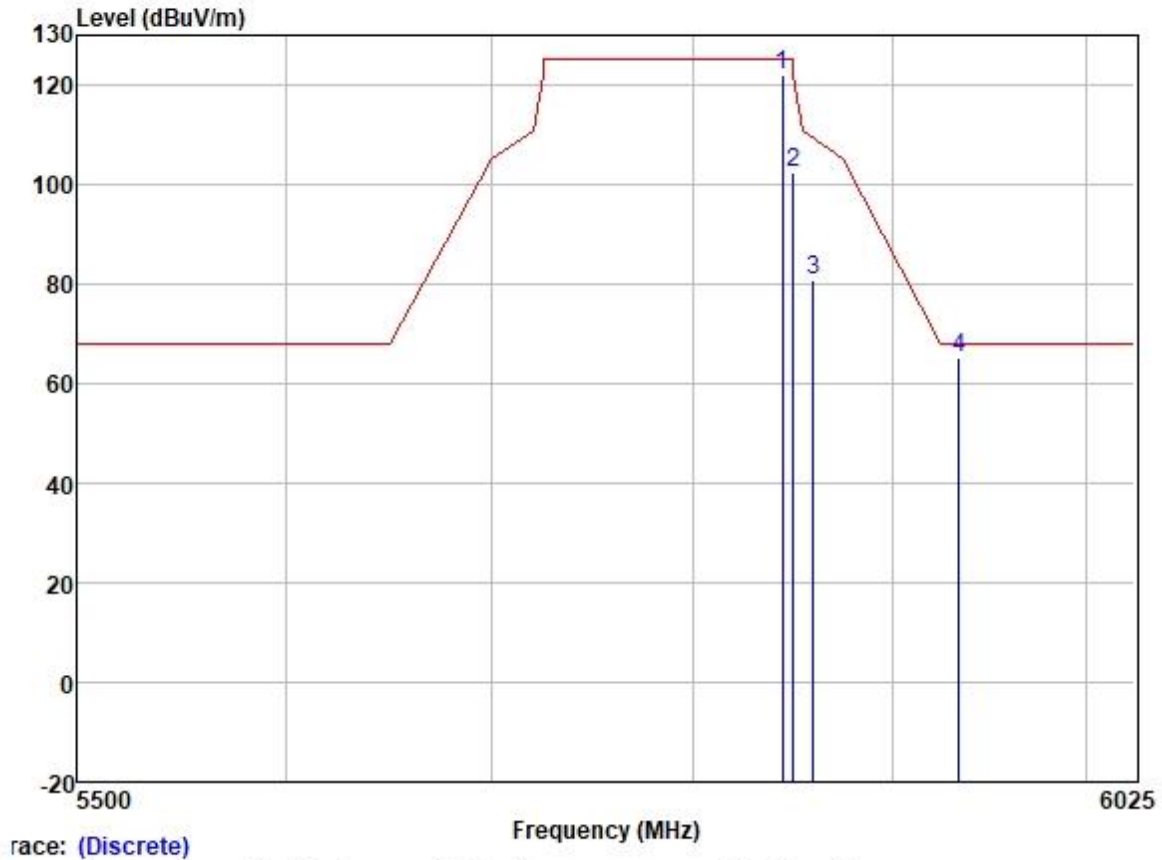
	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5650.104	62.68	31.95	6.35	36.89	64.09	68.28	-4.19	VERTICAL	Peak
2	5715.000	72.81	32.04	6.33	36.89	74.29	109.40	-35.11	VERTICAL	Peak
3	5725.000	103.00	32.07	6.25	36.89	104.43	122.20	-17.77	VERTICAL	Peak
4	5730.500	117.13	32.07	6.25	36.89	118.56	125.20	-6.64	VERTICAL	Peak

Test Mode: 07; Polarity: Horizontal; Modulation: OFDM; Channel: High



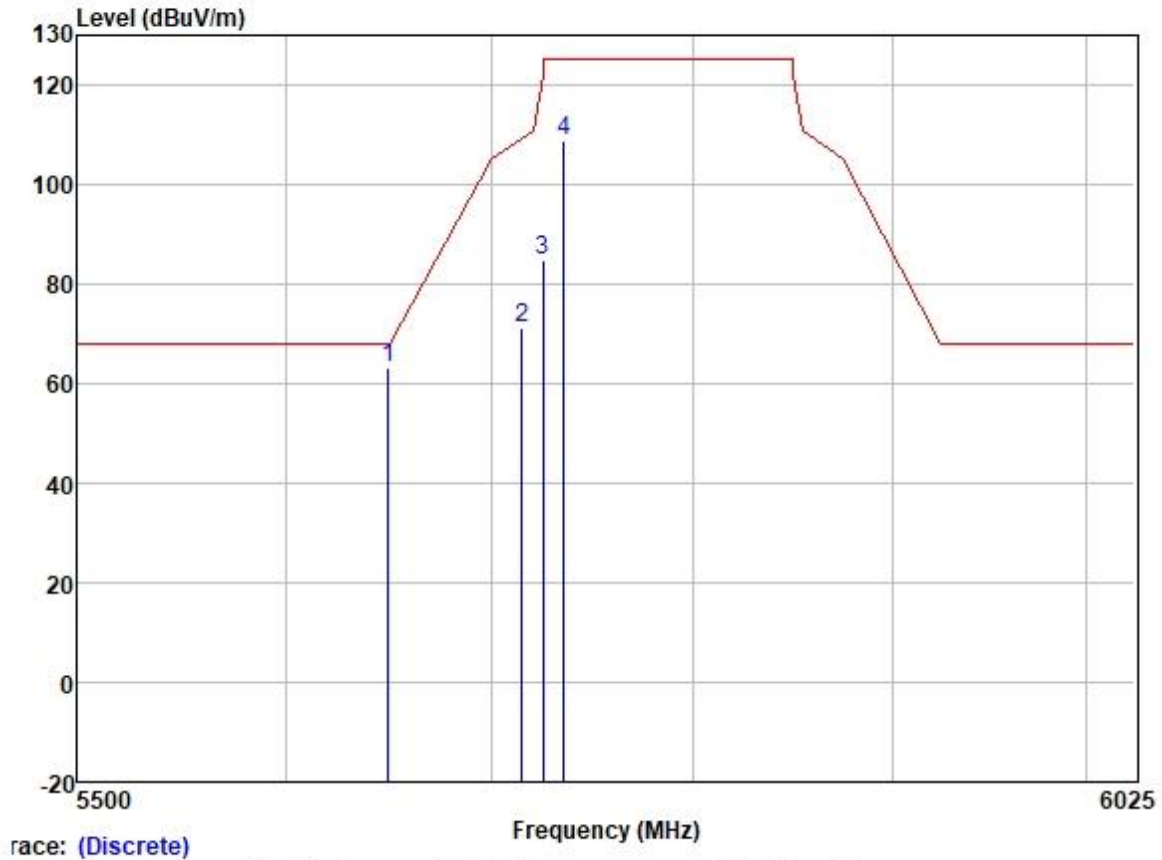
	Read	Antenna	Cable	Preamp	Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5844.500	109.69	32.25	6.00	36.90	111.04	125.20	-14.16
2	5850.000	91.36	32.25	6.00	36.90	92.71	122.20	-29.49
3	5860.000	69.62	32.27	5.96	36.90	70.95	109.40	-38.45
4	5953.494	62.74	32.36	6.05	36.90	64.25	68.20	-3.95

Test Mode: 07; Polarity: Vertical; Modulation: OFDM; Channel: High



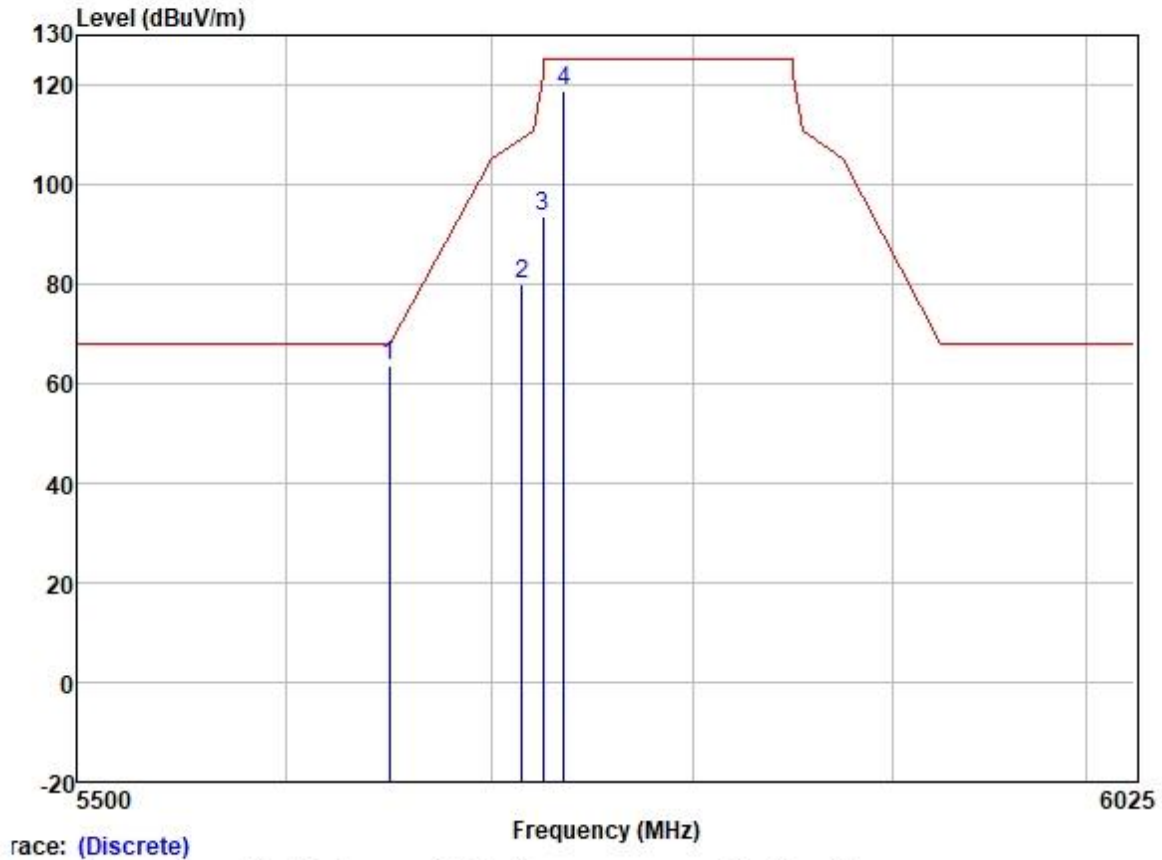
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5844.500	120.62	32.25	6.00	36.90	121.97	125.20	-3.23	VERTICAL	Peak
2	5850.000	100.87	32.25	6.00	36.90	102.22	122.20	-19.98	VERTICAL	Peak
3	5860.000	79.39	32.27	5.96	36.90	80.72	109.40	-28.68	VERTICAL	Peak
4	5934.287	63.75	32.34	6.00	36.90	65.19	68.20	-3.01	VERTICAL	Peak

Test Mode: 08; Polarity: Horizontal; Modulation: OFDM; Channel: Low



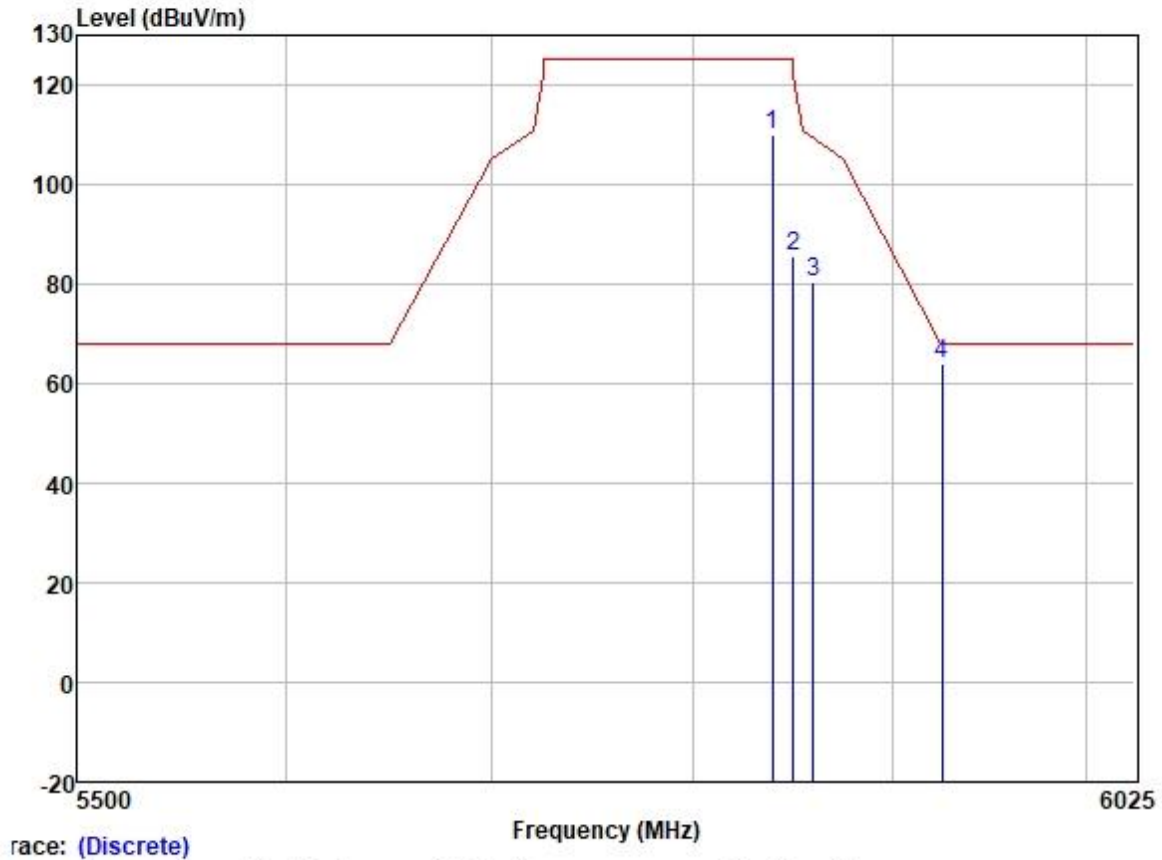
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.412	61.72	31.95	6.35	36.89	63.13	68.20	-5.07	HORIZONTAL	Peak
2	5715.000	69.55	32.04	6.33	36.89	71.03	109.40	-38.37	HORIZONTAL	Peak
3	5725.000	83.27	32.07	6.25	36.89	84.70	122.20	-37.50	HORIZONTAL	Peak
4	5735.500	107.30	32.07	6.25	36.89	108.73	125.20	-16.47	HORIZONTAL	Peak

Test Mode: 08; Polarity: Vertical; Modulation: OFDM; Channel: Low



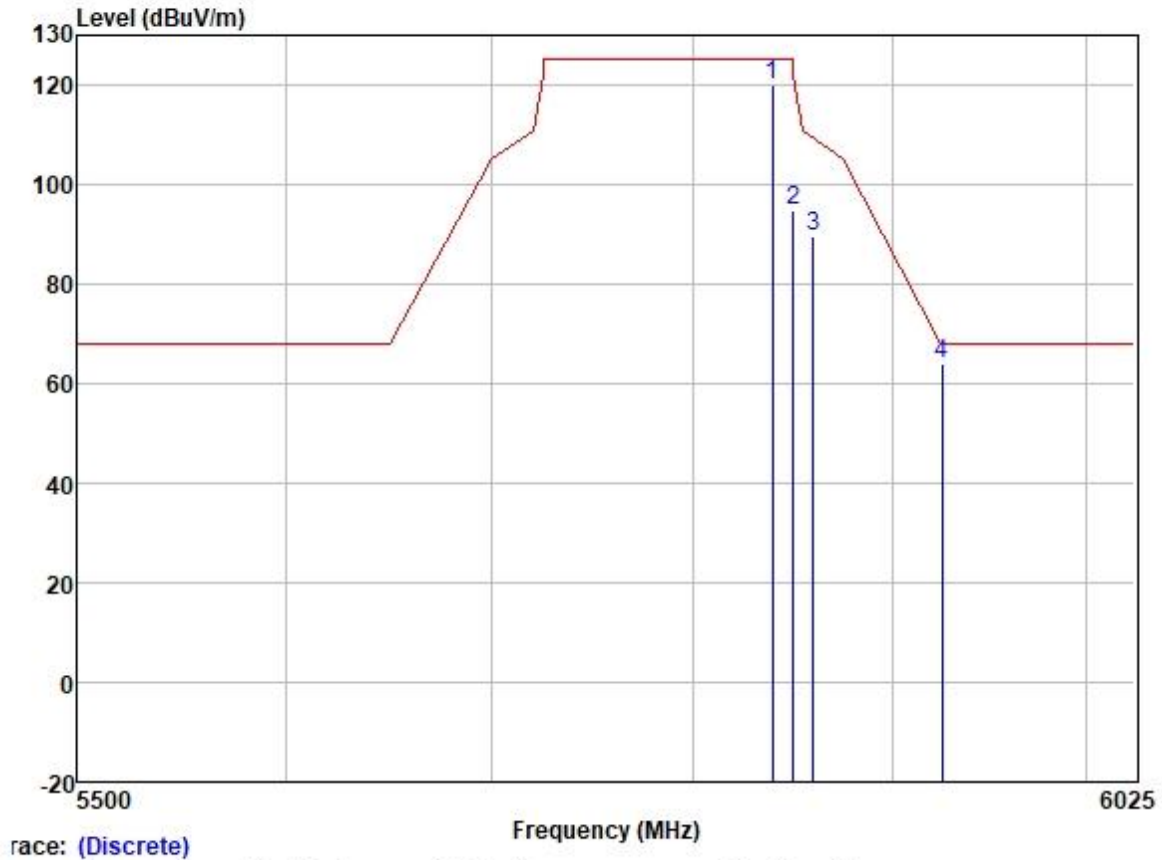
	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.827	62.26	31.95	6.35	36.89	63.67	68.20	-4.53	VERTICAL	Peak
2	5715.000	78.71	32.04	6.33	36.89	80.19	109.40	-29.21	VERTICAL	Peak
3	5725.000	92.11	32.07	6.25	36.89	93.54	122.20	-28.66	VERTICAL	Peak
4	5735.500	117.34	32.07	6.25	36.89	118.77	125.20	-6.43	VERTICAL	Peak

Test Mode: 08; Polarity: Horizontal; Modulation: OFDM; Channel: High



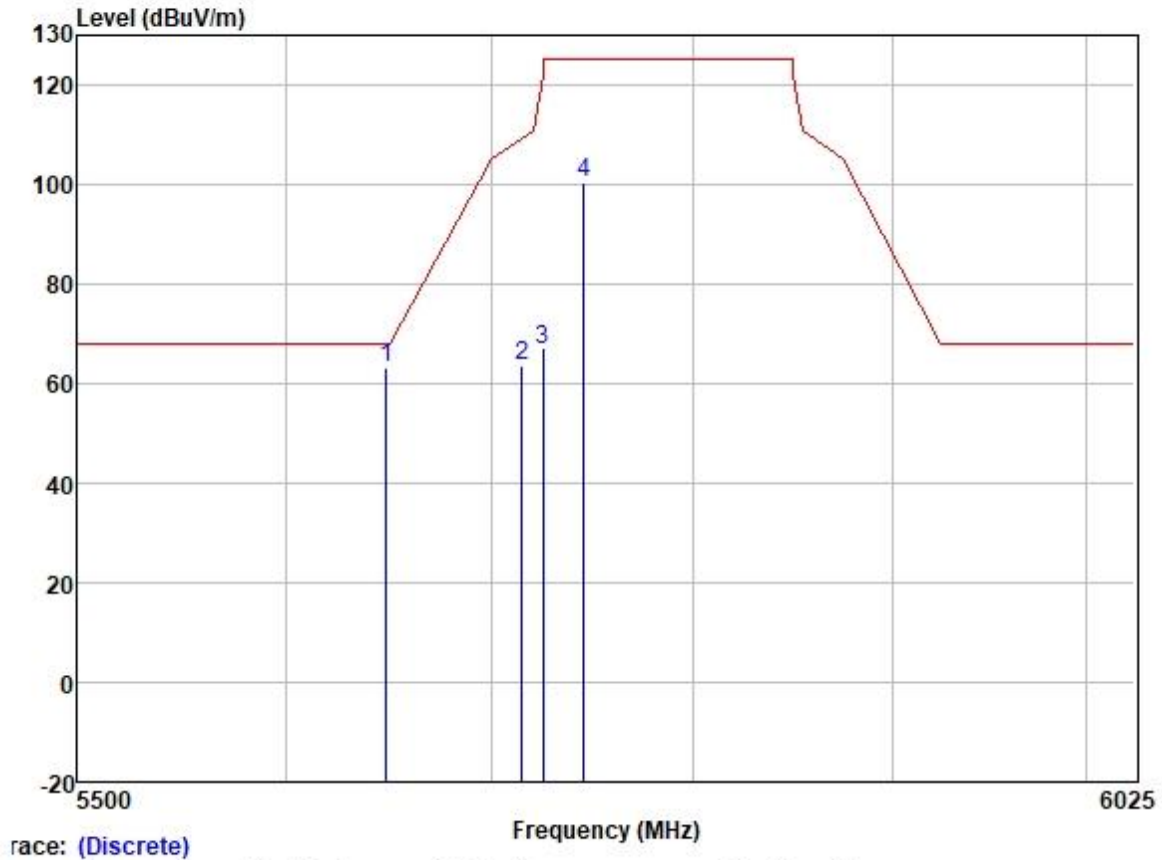
	Read	Antenna	Cable	Preamp	Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5839.500	108.83	32.25	6.00	36.90	110.18	125.20	-15.02
2	5850.000	84.25	32.25	6.00	36.90	85.60	122.20	-36.60
3	5860.000	79.06	32.27	5.96	36.90	80.39	109.40	-29.01
4	5925.456	62.59	32.34	6.00	36.90	64.03	68.20	-4.17

Test Mode: 08; Polarity: Vertical; Modulation: OFDM; Channel: High



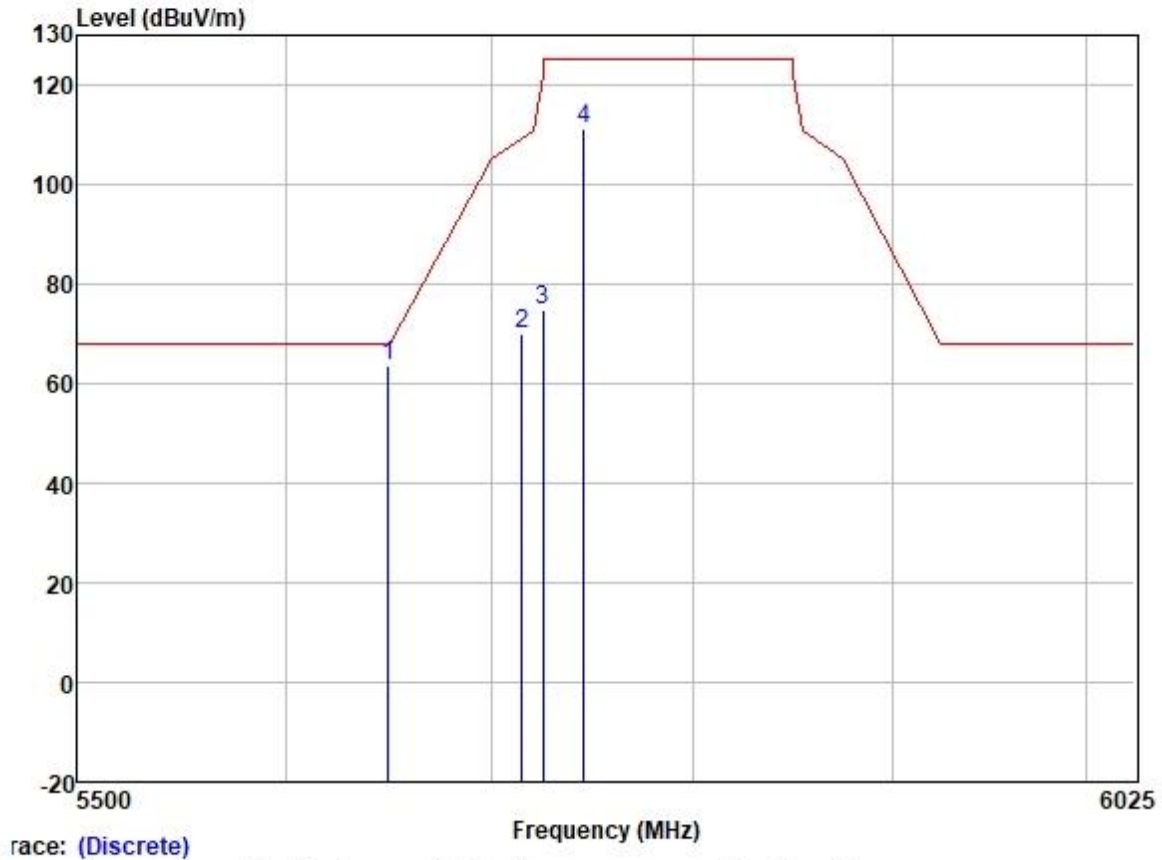
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5839.500	118.65	32.25	6.00	36.90	120.00	125.20	-5.20	VERTICAL	Peak
2	5850.000	93.61	32.25	6.00	36.90	94.96	122.20	-27.24	VERTICAL	Peak
3	5860.000	88.18	32.27	5.96	36.90	89.51	109.40	-19.89	VERTICAL	Peak
4	5925.789	62.74	32.34	6.00	36.90	64.18	68.20	-4.02	VERTICAL	Peak

Test Mode: 09; Polarity: Horizontal; Modulation: OFDM; Channel: Low



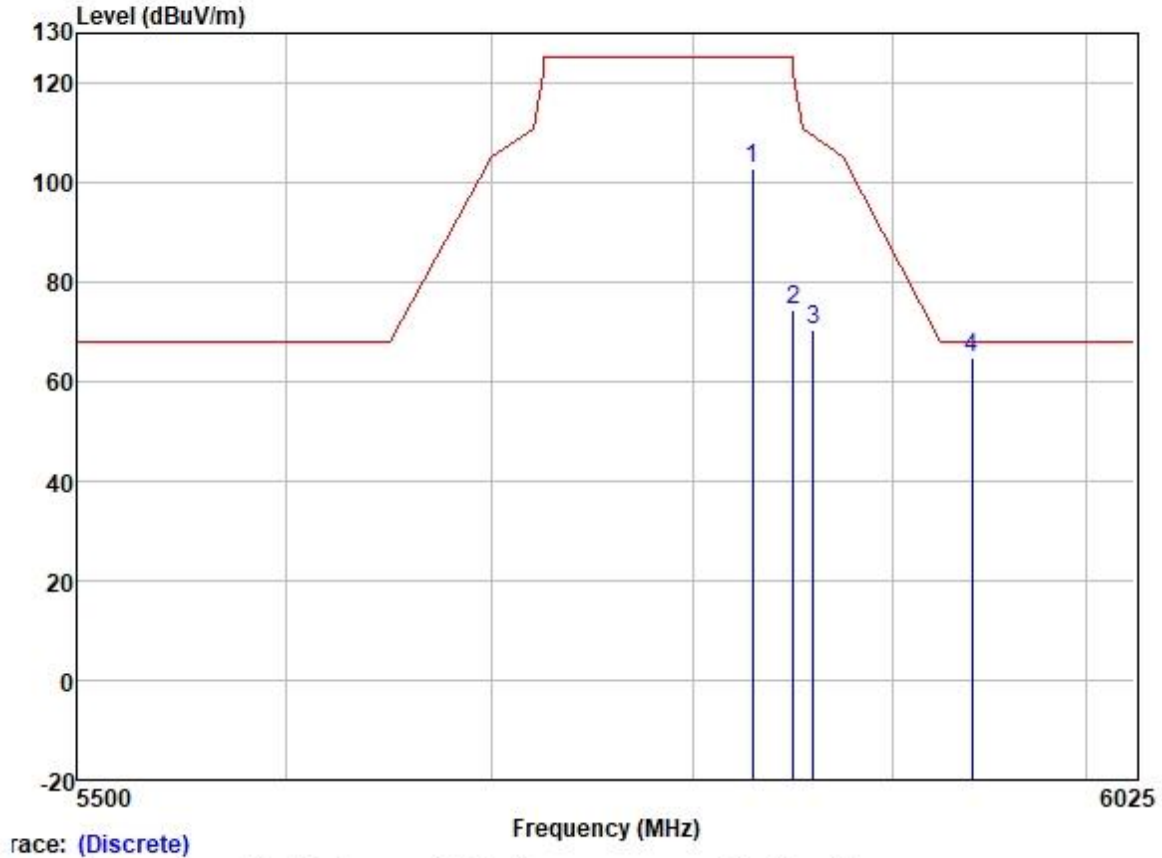
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5648.442	61.73	31.95	6.35	36.89	63.14	68.20	-5.06	HORIZONTAL	Peak
2	5715.000	62.03	32.04	6.33	36.89	63.51	109.40	-45.89	HORIZONTAL	Peak
3	5725.000	65.57	32.07	6.25	36.89	67.00	122.20	-55.20	HORIZONTAL	Peak
4	5745.500	98.95	32.10	6.20	36.89	100.36	125.20	-24.84	HORIZONTAL	Peak

Test Mode: 09; Polarity: Vertical; Modulation: OFDM; Channel: Low



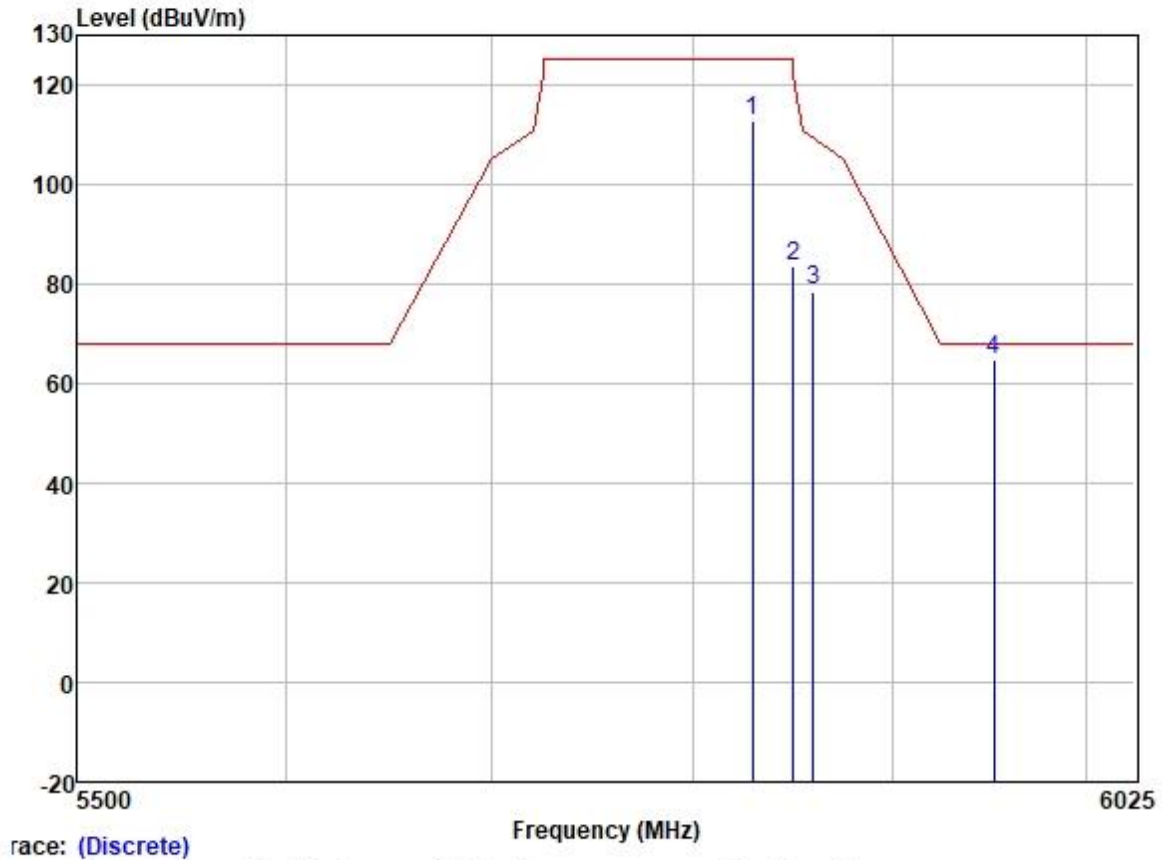
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5649.273	62.07	31.95	6.35	36.89	63.48	68.20	-4.72	VERTICAL	Peak
2	5715.000	68.41	32.04	6.33	36.89	69.89	109.40	-39.51	VERTICAL	Peak
3	5725.000	73.40	32.07	6.25	36.89	74.83	122.20	-47.37	VERTICAL	Peak
4	5745.500	109.91	32.10	6.20	36.89	111.32	125.20	-13.88	VERTICAL	Peak

Test Mode: 09; 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	5829.500	101.48	32.23	6.04	36.90	102.85	125.20	-22.35	HORIZONTAL	Peak
2	5850.000	73.06	32.25	6.00	36.90	74.41	122.20	-47.79	HORIZONTAL	Peak
3	5860.000	69.10	32.27	5.96	36.90	70.43	109.40	-38.97	HORIZONTAL	Peak
4	5940.961	63.43	32.34	6.00	36.90	64.87	68.20	-3.33	HORIZONTAL	Peak

Test Mode: 09; Polarity: Vertical; 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	5829.500	111.36	32.23	6.04	36.90	112.73	125.20	-12.47	VERTICAL	Peak
2	5850.000	82.33	32.25	6.00	36.90	83.68	122.20	-38.52	VERTICAL	Peak
3	5860.000	77.27	32.27	5.96	36.90	78.60	109.40	-30.80	VERTICAL	Peak
4	5952.323	63.27	32.36	6.05	36.90	64.78	68.20	-3.42	VERTICAL	Peak

7.10 Frequency Stability

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

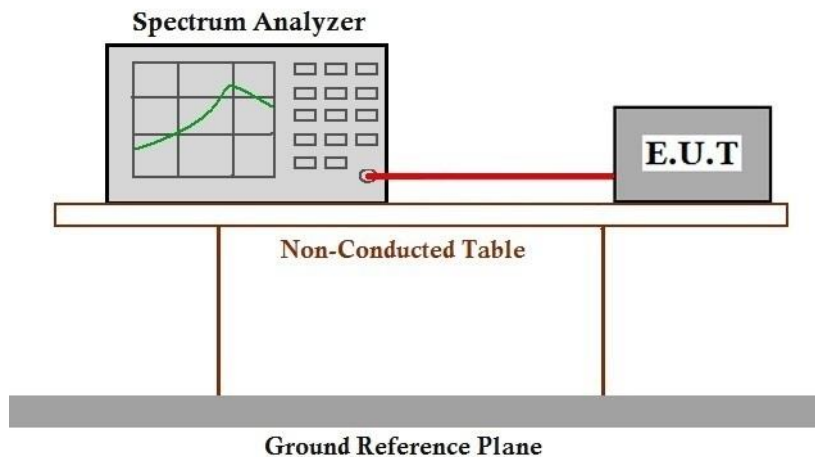
7.10.1 E.U.T. Operation

Operating Environment:
Temperature: 21.6 °C Humidity: 52.0 % RH Atmospheric Pressure: 1003 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	06	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	07	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	08	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	09	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix – Setup Photos for GZCR2203000248AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2203000248AT

10 Appendix

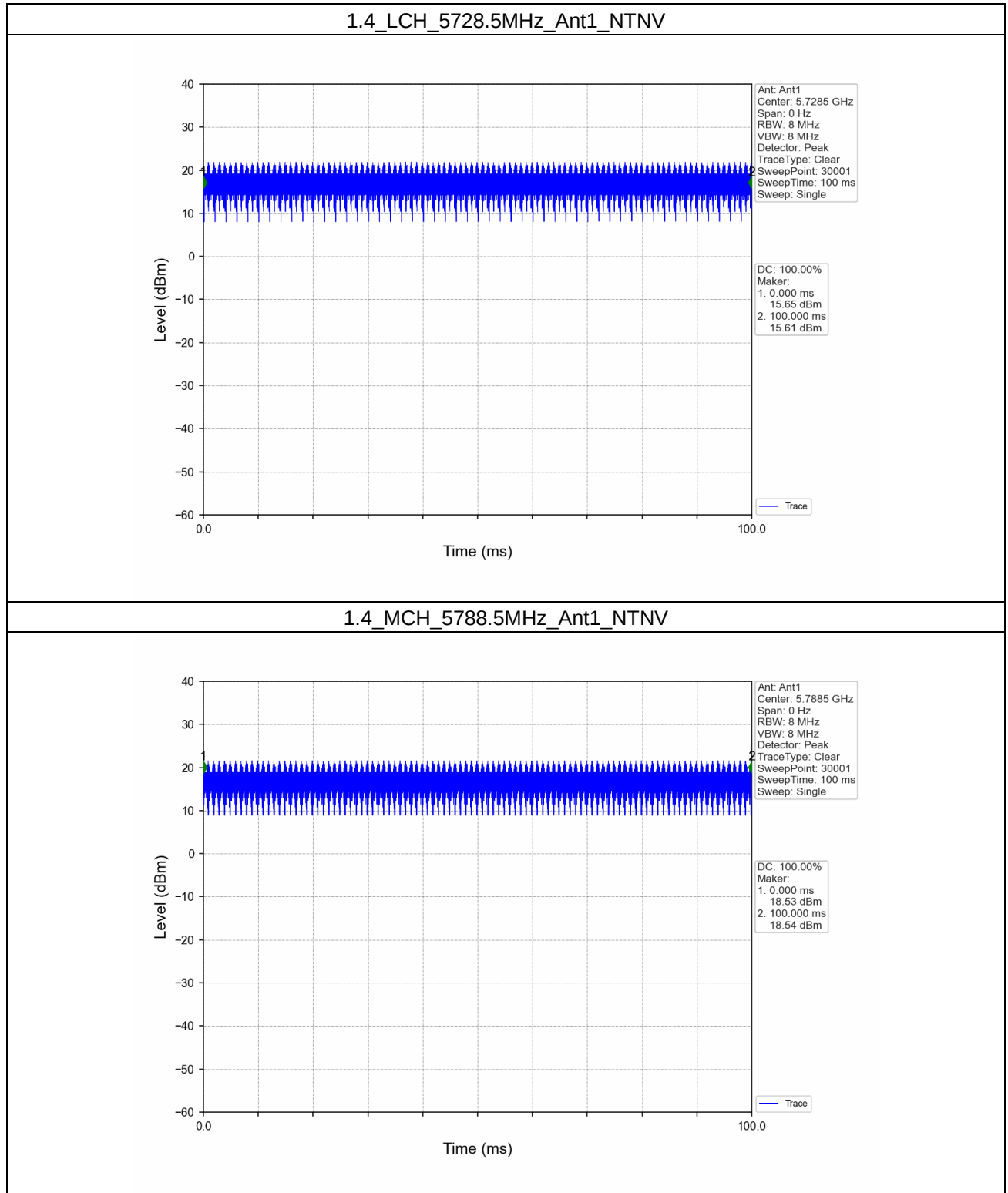
1. Duty Cycle

1.1 Ant1

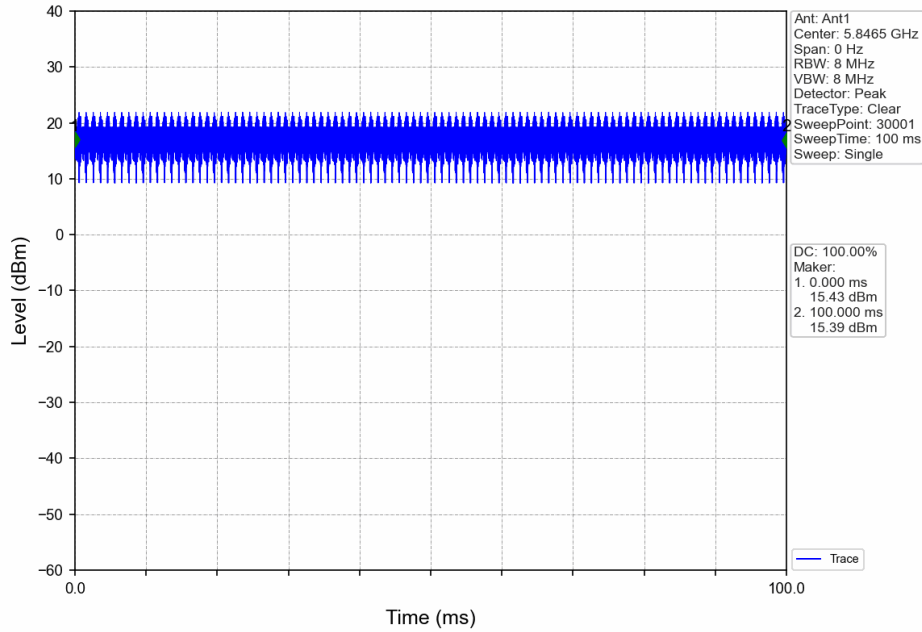
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1.4	SISO	5728.5	100.000	100.000	100.00	0.00	0.00
		5788.5	100.000	100.000	100.00	0.00	0.00
		5846.5	100.000	100.000	100.00	0.00	0.00
3	SISO	5727.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5844.5	100.000	100.000	100.00	0.00	0.00
10	SISO	5730.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5844.5	100.000	100.000	100.00	0.00	0.00
20	SISO	5735.5	19.977	20.000	99.88	0.00	0.00
		5787.5	19.970	20.000	99.85	0.01	0.00
		5839.5	19.900	20.000	99.50	0.02	0.00
40	SISO	5745.5	19.977	20.000	99.89	0.00	0.02
		5787.5	19.977	20.000	99.88	0.00	0.00
		5829.5	19.977	20.000	99.88	0.00	0.00

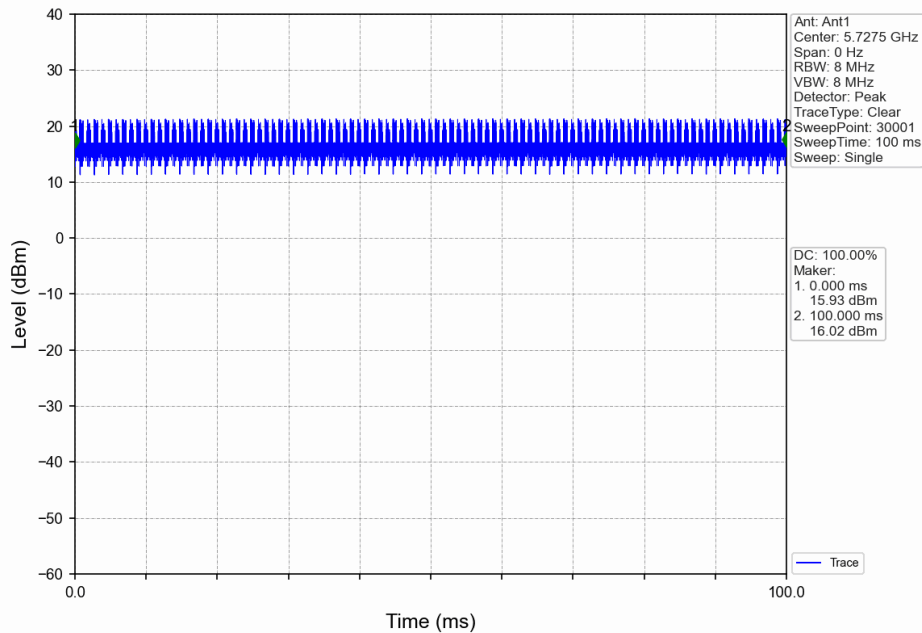
1.1.2 Test Graph



1.4_HCH_5846.5MHz_Ant1_NTNV

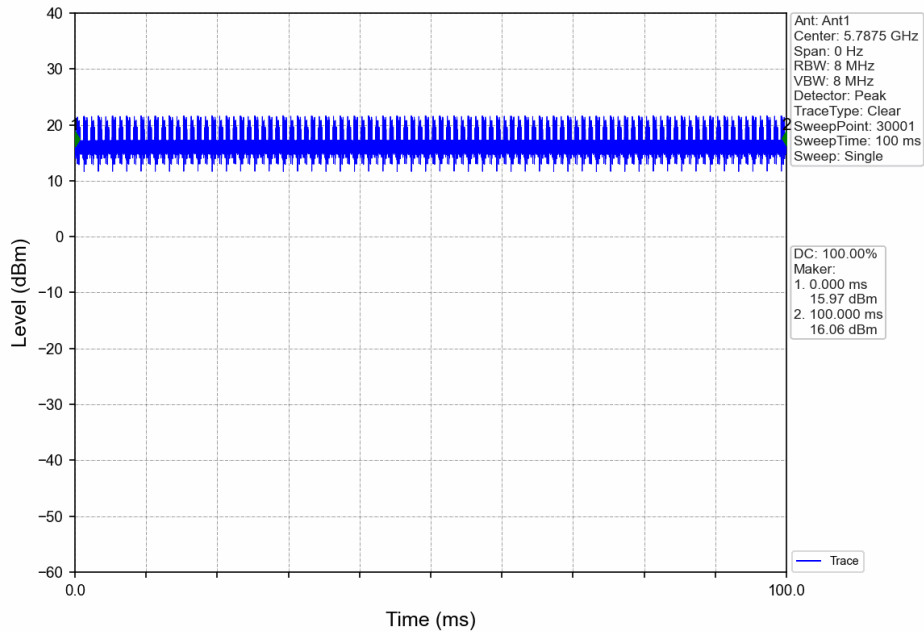


3_LCH_5727.5MHz_Ant1_NTNV

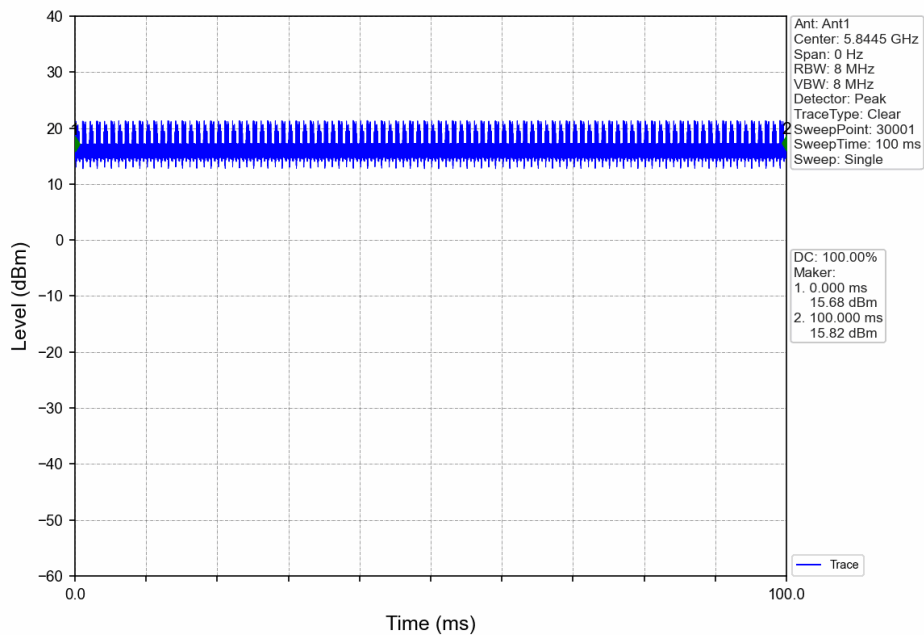


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3_MCH_5787.5MHz_Ant1_NTNV



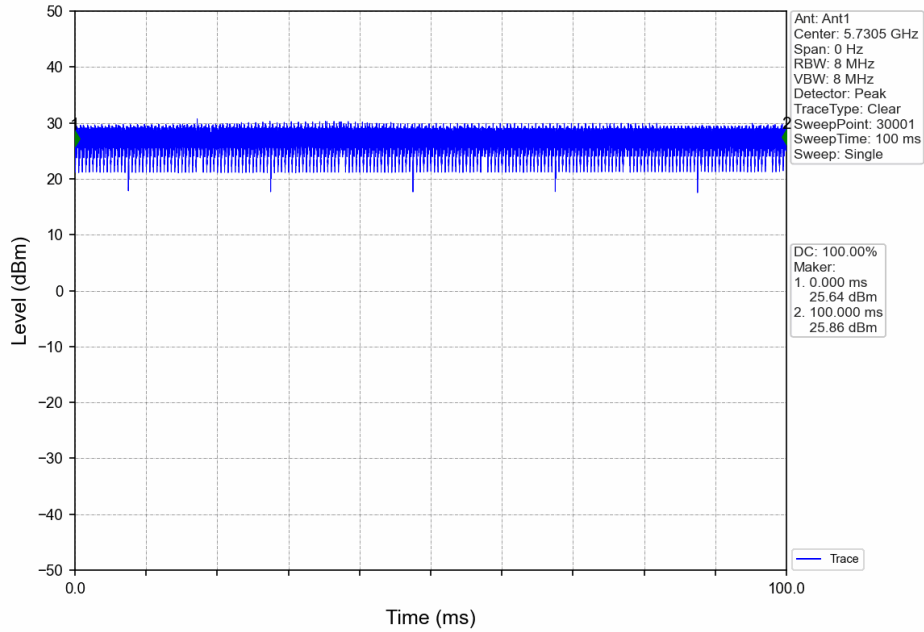
3_HCH_5844.5MHz_Ant1_NTNV



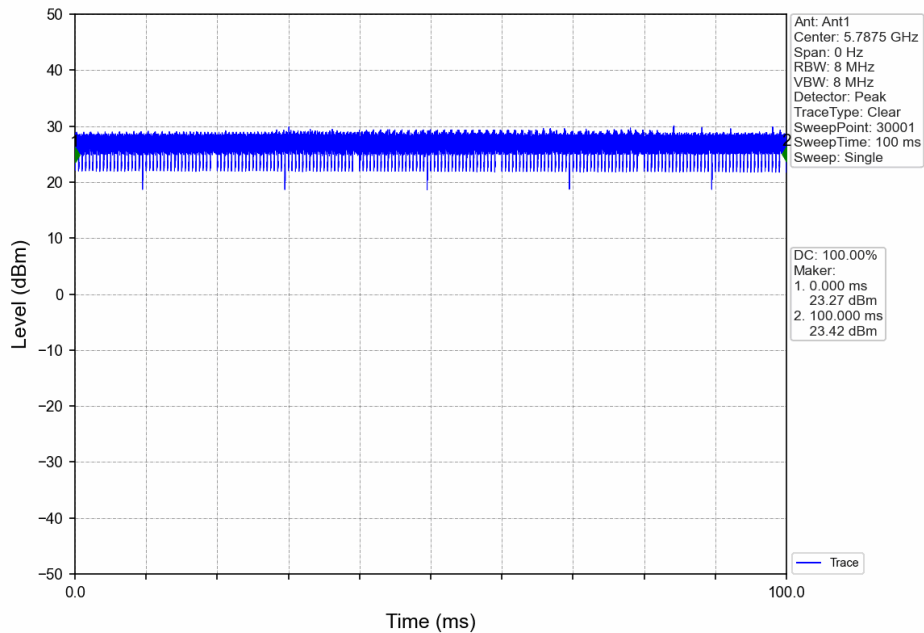
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10_LCH_5730.5MHz_Ant1_NTNV

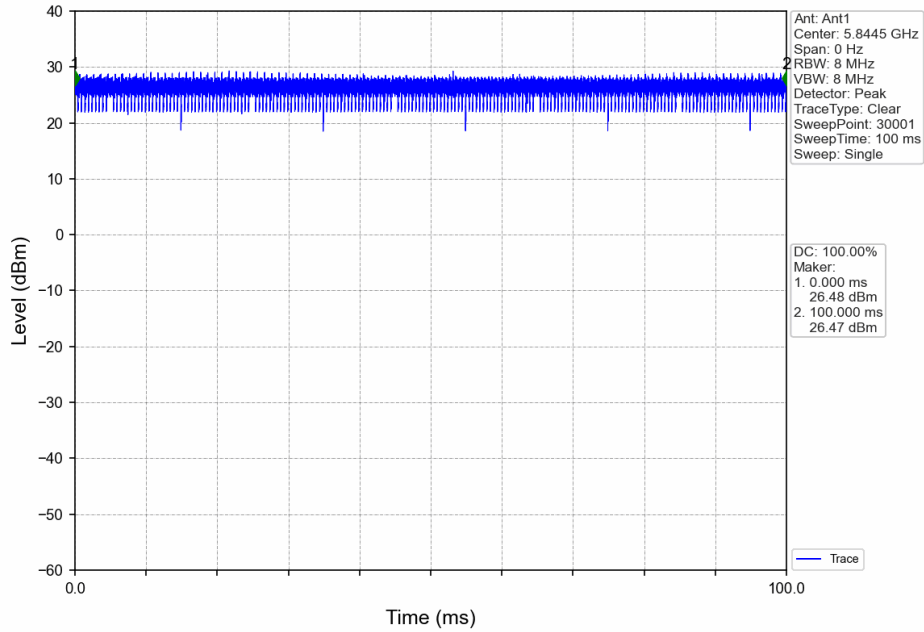


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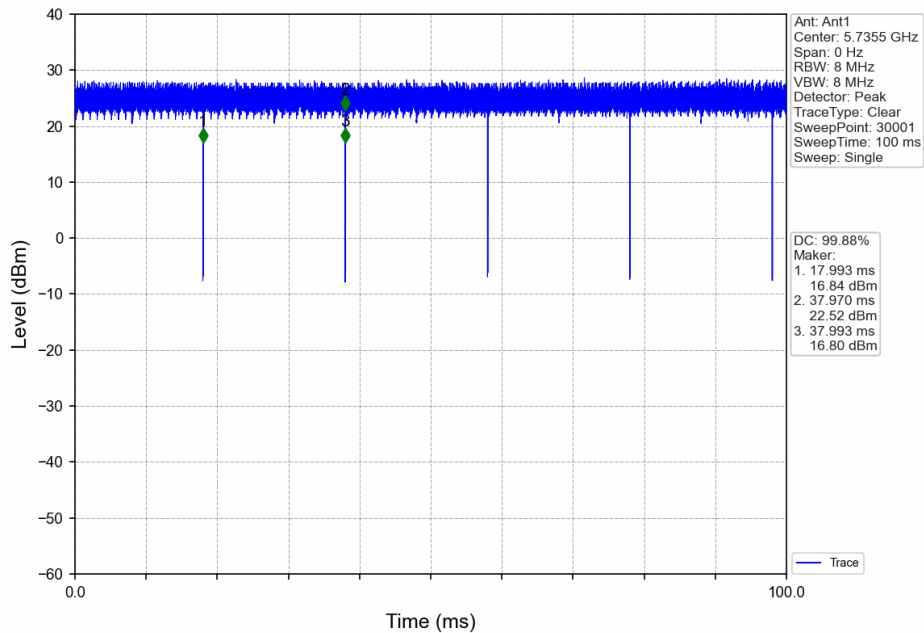


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10_HCH_5844.5MHz_Ant1_NTNV

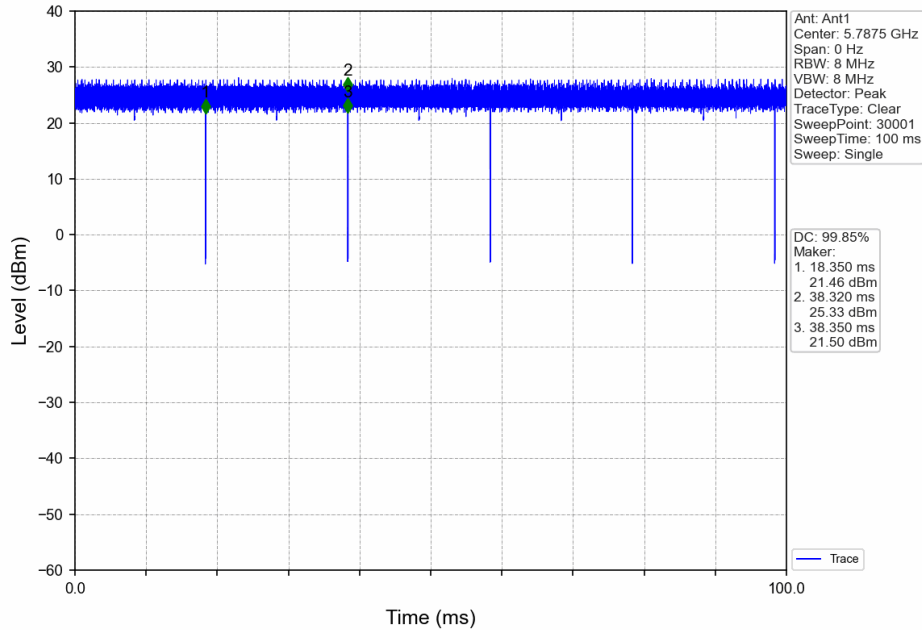


20_LCH_5735.5MHz_Ant1_NTNV

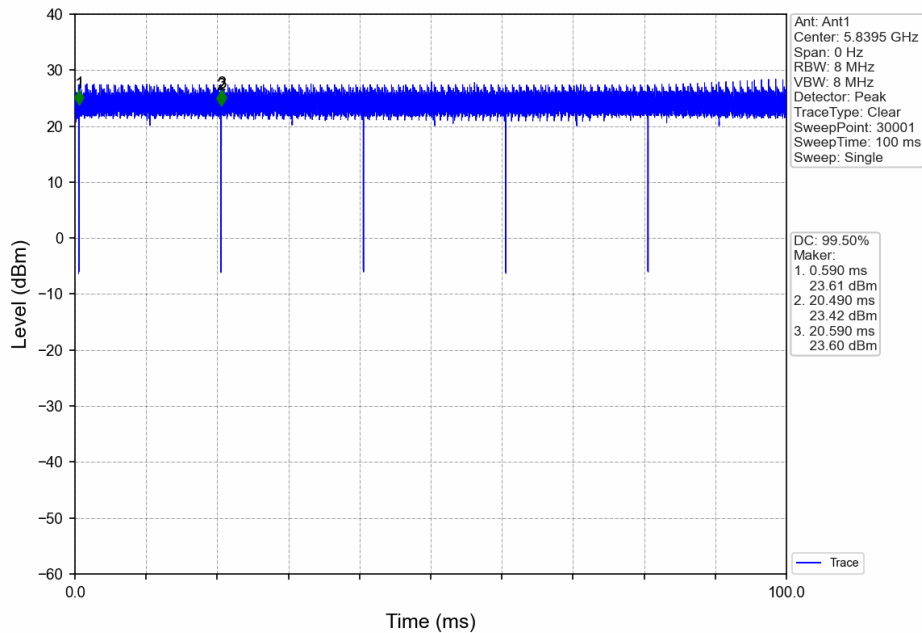


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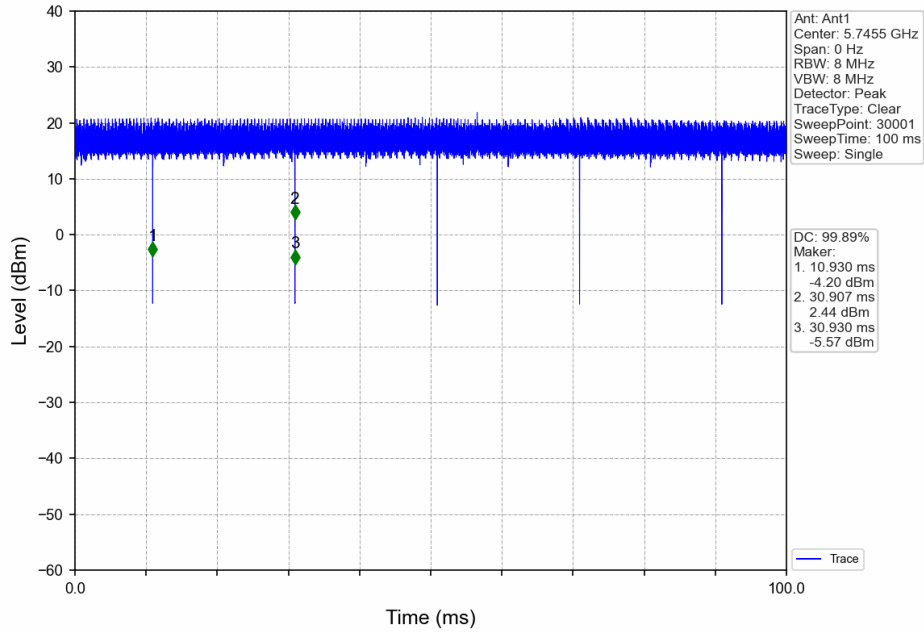
20_MCH_5787.5MHz_Ant1_NTNV



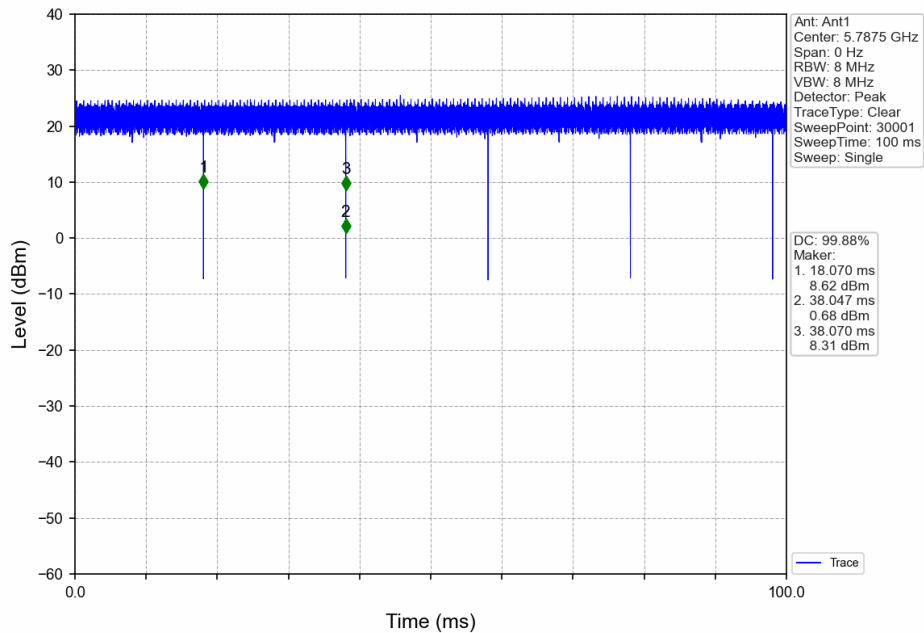
20_HCH_5839.5MHz_Ant1_NTNV



40_LCH_5745.5MHz_Ant1_NTNV

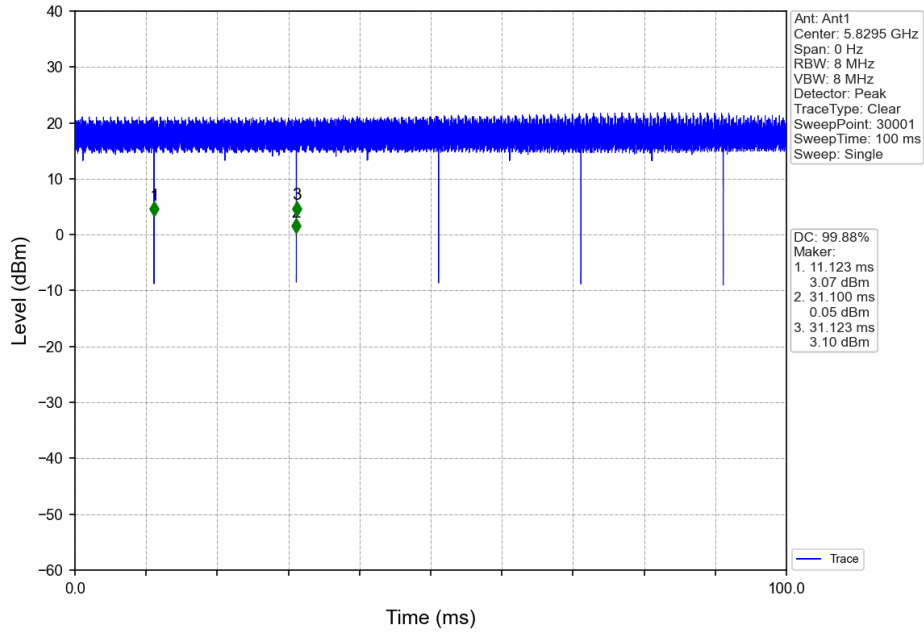


40_MCH_5787.5MHz_Ant1_NTNV



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40_HCH_5829.5MHz_Ant1_NTNV



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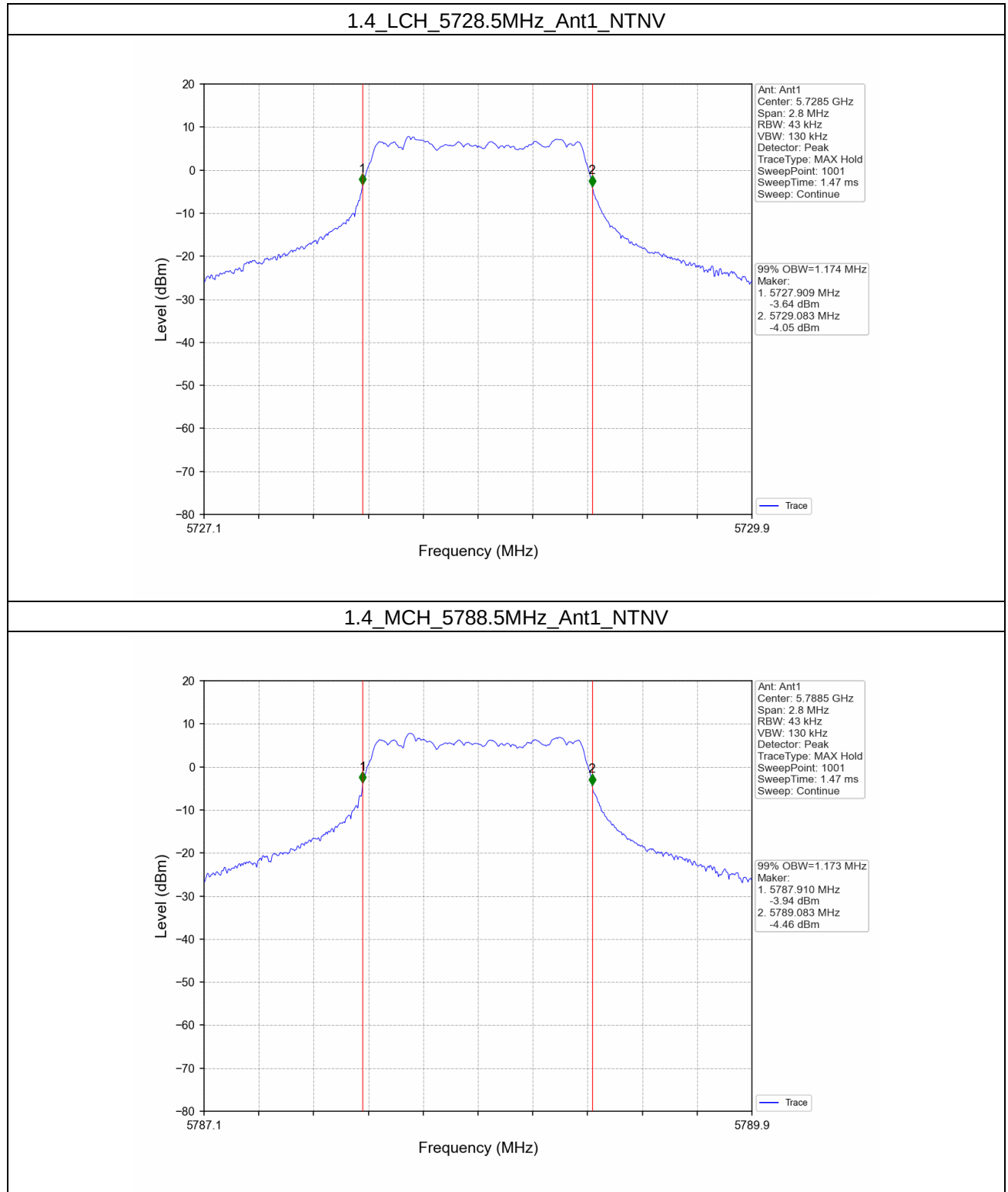
2. Bandwidth

2.1 OBW

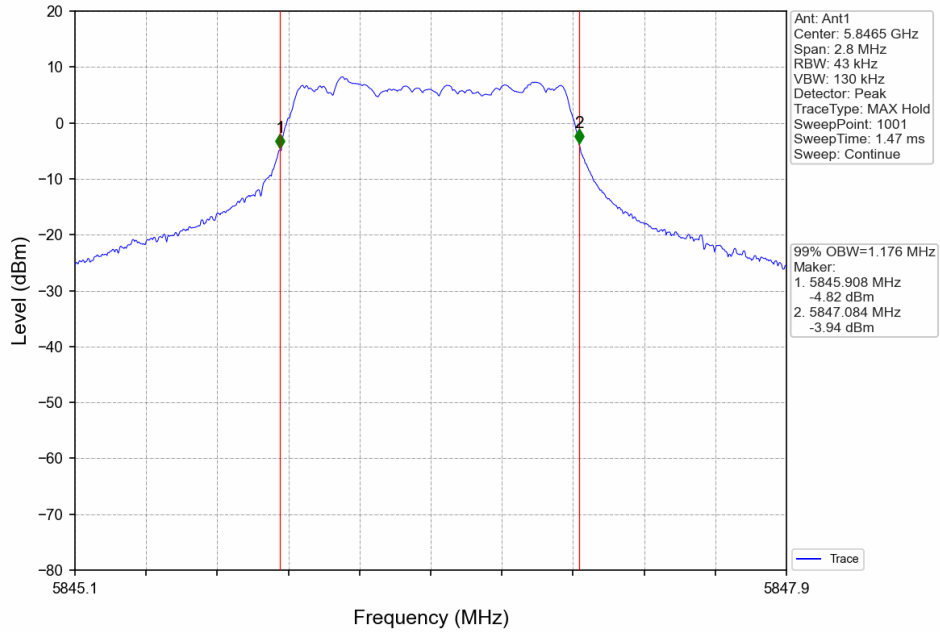
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1.4	SISO	5728.5	1	1.174	Pass
		5788.5	1	1.173	Pass
		5846.5	1	1.176	Pass
3	SISO	5727.5	1	2.315	Pass
		5787.5	1	2.322	Pass
		5844.5	1	2.303	Pass
10	SISO	5730.5	1	9.108	Pass
		5787.5	1	9.081	Pass
		5844.5	1	9.079	Pass
20	SISO	5735.5	1	17.964	Pass
		5787.5	1	18.074	Pass
		5839.5	1	18.035	Pass
40	SISO	5745.5	1	36.255	Pass
		5787.5	1	36.265	Pass
		5829.5	1	36.117	Pass

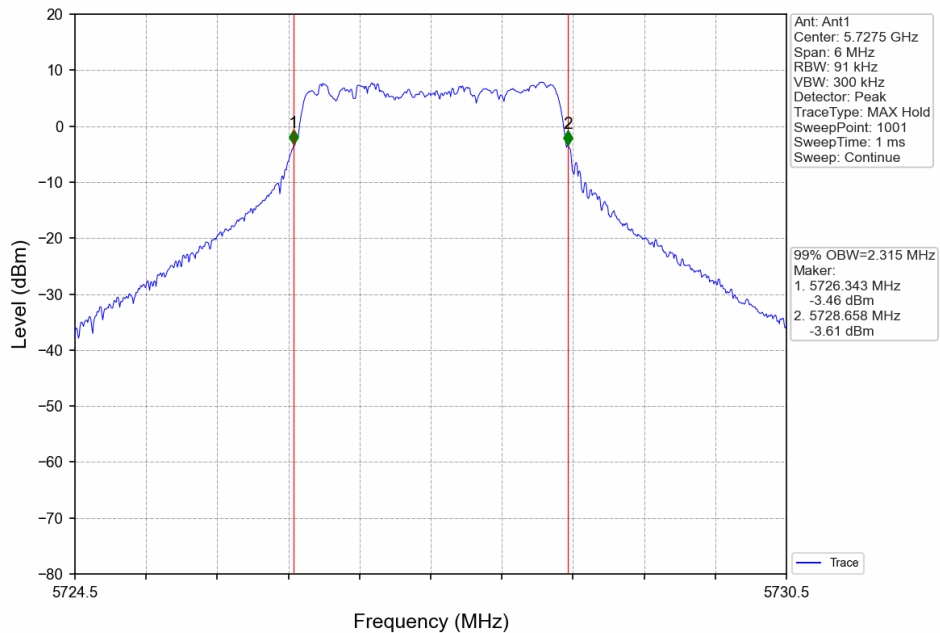
2.1.2 Test Graph



1.4_HCH_5846.5MHz_Ant1_NTNV

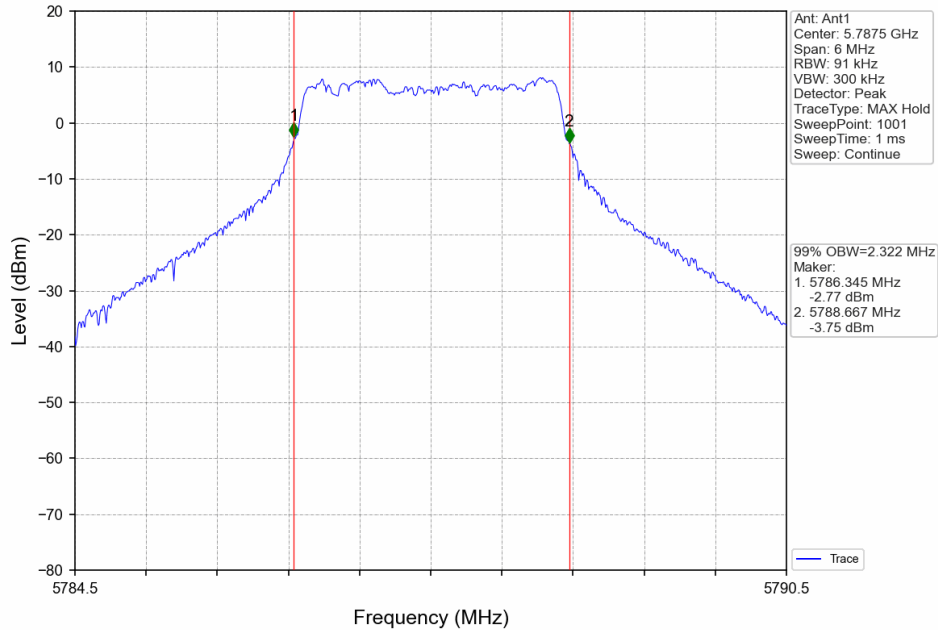


3_LCH_5727.5MHz_Ant1_NTNV

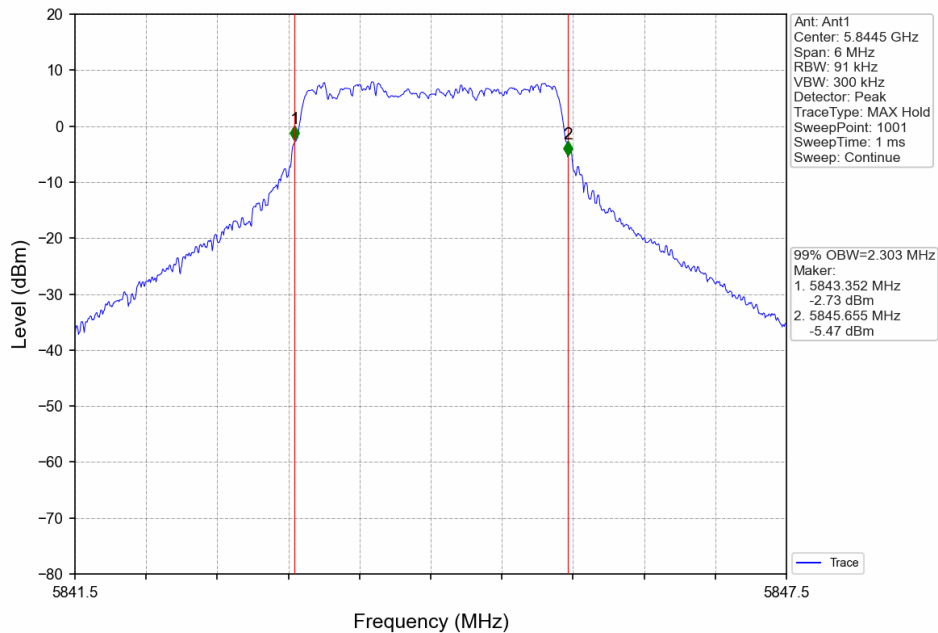


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3_MCH_5787.5MHz_Ant1_NTNV



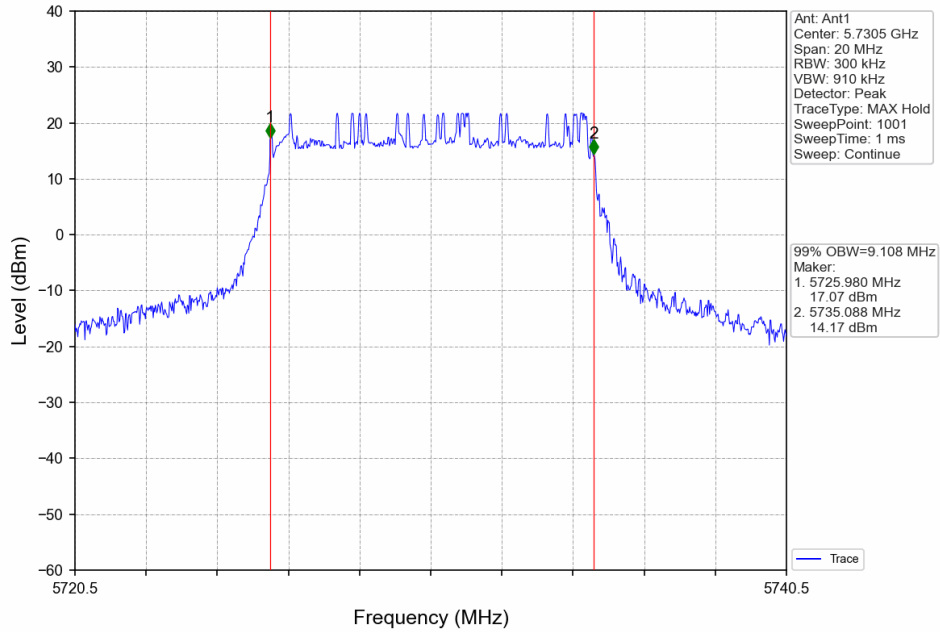
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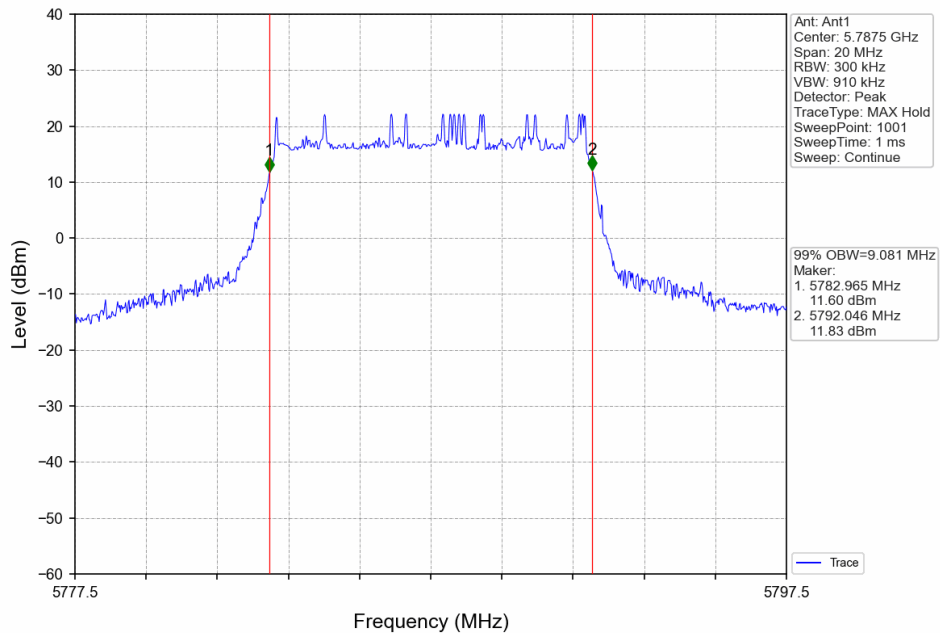
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10_LCH_5730.5MHz_Ant1_NTNV



10_MCH_5787.5MHz_Ant1_NTNV



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