

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 C 15.247
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*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager



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

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

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1.3	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Duty Cycle		ANSI C63.10 (2013) Section 11.6	KDB 558074 D01 v05r02 section 6	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: 52.8 VDC, 5935mAh
Operation Frequency:	1.4MHz BW:2403.5MHz-2469.5MHz; 3MHz BW:2405.5MHz-2468.5MHz; 10MHz BW:2407.5MHz-2467.5MHz; 20MHz BW:2412.5MHz-2462.5MHz; 40MHz BW:2422.5MHz-2452.5MHz
Modulation Type:	OFDM
Number of Channels:	1.4MHz BW:34; 3MHz BW:22; 10MHz BW:61; 20MHz BW:51; 40MHz BW:31
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: 2.5dBi declared by applicant

4.2 Description of Support Units

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

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	±5.08dB (1GHz-6GHz); ±5.14dB (above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	±5.06dB (3m); ±4.46dB (10m)
Radiated Spurious Emissions (Above 1GHz)	±5.08dB (1GHz-6GHz); ±5.14dB (above 6GHz)
Duty Cycle	± 0.37%
Remark:	<p>The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results</p> <ul style="list-style-type: none"> – 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.

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4.4 Test Location

All tests were performed at:

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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 Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	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
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
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
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
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
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
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
Test Software	TST	V2.0	GZE100-78	N/A	N/A

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Conducted Spurious Emissions

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
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
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
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

Radiated Spurious Emissions (Below 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
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

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Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-12-17	2022-12-16
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 Spurious Emissions (Above 1GHz)

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	KMKG-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
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)	Micro-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

Duty Cycle

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
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
Test Software	TST	V2.0	GZE100-78	N/A	N/A

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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 & 15.247(b)(4)

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.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.5 dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1.3

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

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

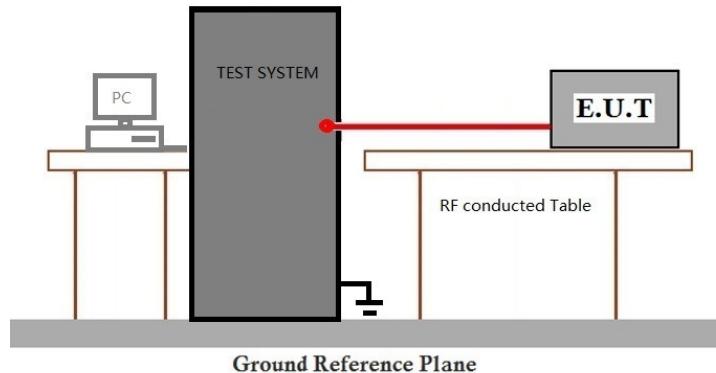
7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(2.4G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	01	TX mode(2.4G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	02	TX mode(2.4G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	03	TX mode(2.4G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	04	TX mode(2.4G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

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7.1.3 Test Setup Diagram**7.1.4 Measurement Procedure and Data**

cable loss=0.9dB

Please Refer to Appendix for Details

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7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.2.1 E.U.T. Operation

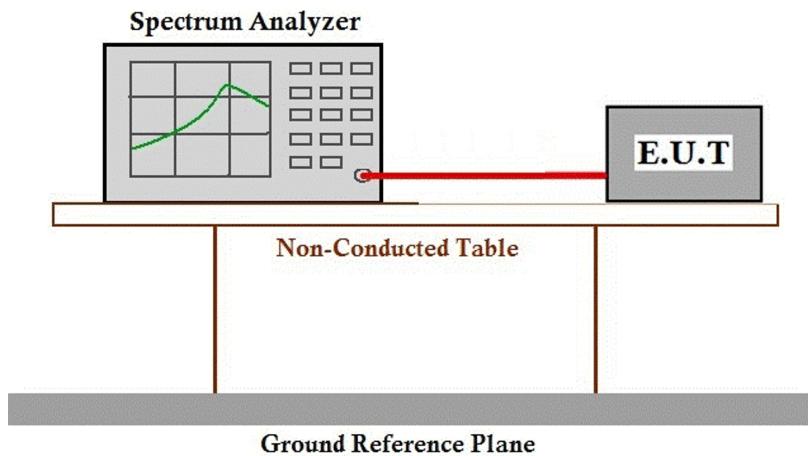
Operating Environment:

Temperature: 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	00	TX mode(2.4G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	01	TX mode(2.4G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	02	TX mode(2.4G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	03	TX mode(2.4G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	04	TX mode(2.4G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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7.3 Power Spectrum Density

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

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

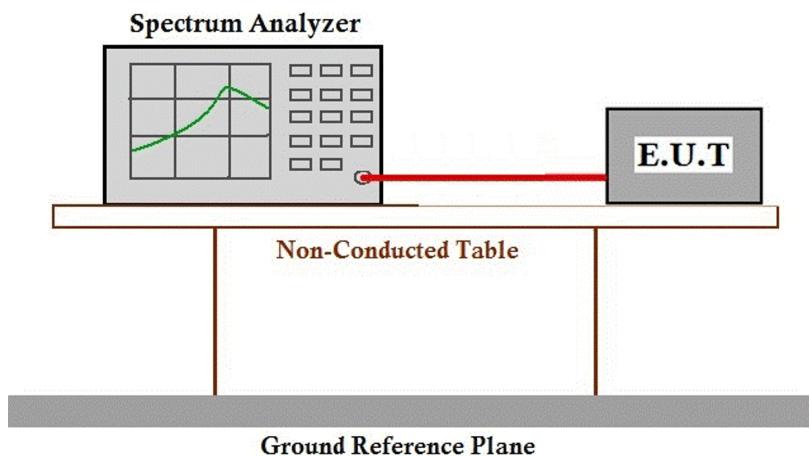
Operating Environment:

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	00	TX mode(2.4G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	01	TX mode(2.4G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	02	TX mode(2.4G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	03	TX mode(2.4G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	04	TX mode(2.4G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



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7.4 Conducted Band Edges Measurement

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

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

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

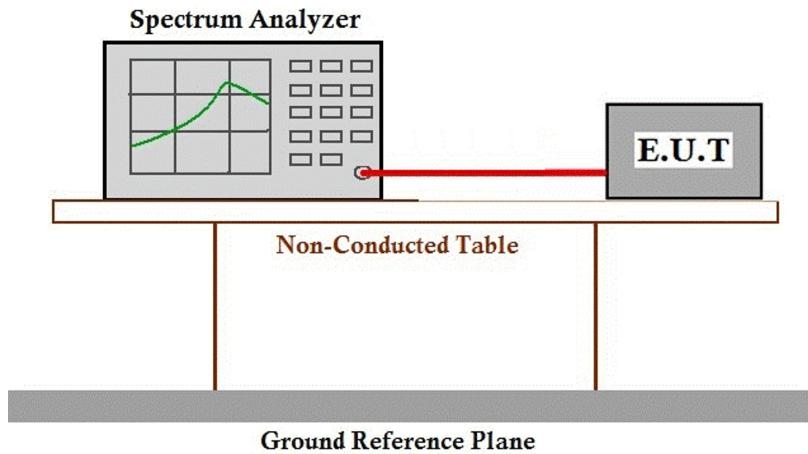
7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(2.4G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	01	TX mode(2.4G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	02	TX mode(2.4G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	03	TX mode(2.4G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	04	TX mode(2.4G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

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7.4.3 Test Setup Diagram**7.4.4 Measurement Procedure and Data**

cable loss=0.9dB

Please Refer to Appendix for Details

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7.5 Conducted Spurious Emissions

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

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

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

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

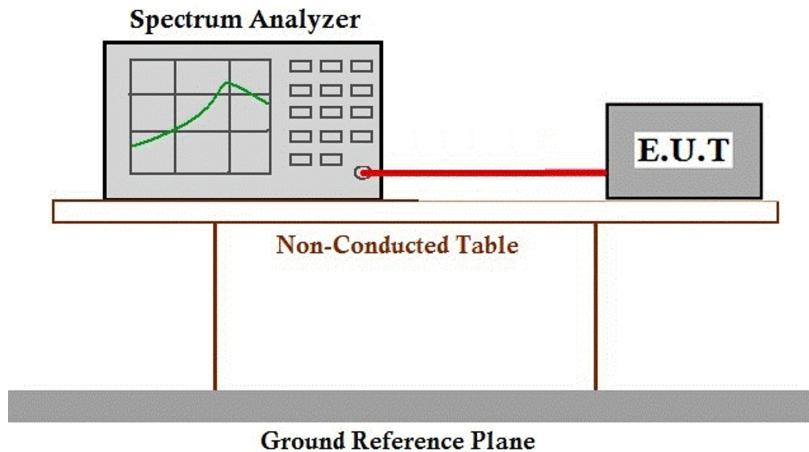
7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(2.4G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	01	TX mode(2.4G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	02	TX mode(2.4G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	03	TX mode(2.4G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	04	TX mode(2.4G 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**

cable loss=0.9dB

Please Refer to Appendix for Details

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7.6 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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

7.6.1 E.U.T. Operation

Operating Environment:

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

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(2.4G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	01	TX mode(2.4G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	02	TX mode(2.4G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	03	TX mode(2.4G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	04	TX mode(2.4G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

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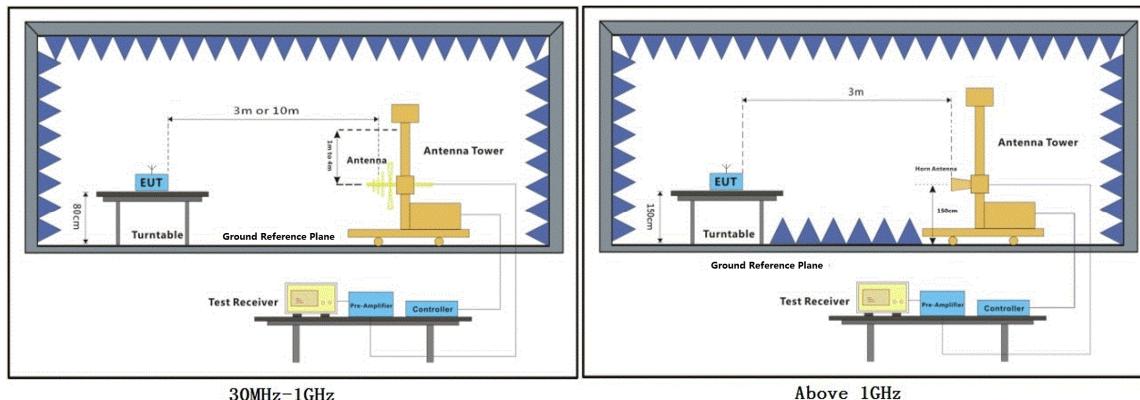
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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

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

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

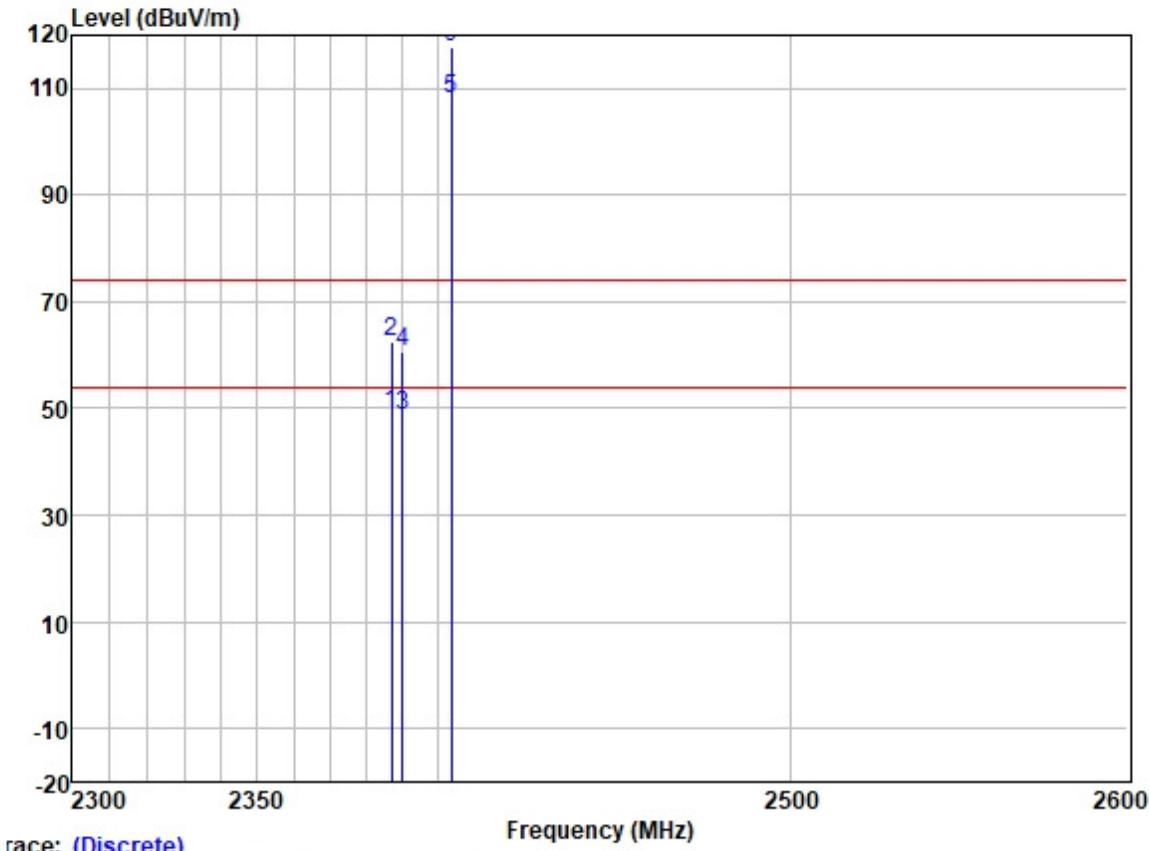
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Test Mode: 00; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Trace: (Discrete)

ReadAntenna	Cable	Preamp	Limit		Over	Pol/Phase	Remark	
			Freq	Level	Factor	Loss	Factor	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2386.944	55.69	27.33	3.48	37.60	48.90	54.00	-5.10 HORIZONTAL Average
2	2386.944	69.16	27.33	3.48	37.60	62.37	74.00	-11.63 HORIZONTAL Peak
3	2390.000	55.49	27.33	3.48	37.59	48.71	54.00	-5.29 HORIZONTAL Average
4	2390.000	67.25	27.33	3.48	37.59	60.47	74.00	-13.53 HORIZONTAL Peak
5 *	2403.500	114.87	27.35	3.50	37.59	108.13	54.00	54.13 HORIZONTAL Average
6 *	2403.500	124.39	27.35	3.50	37.59	117.65	74.00	43.65 HORIZONTAL Peak

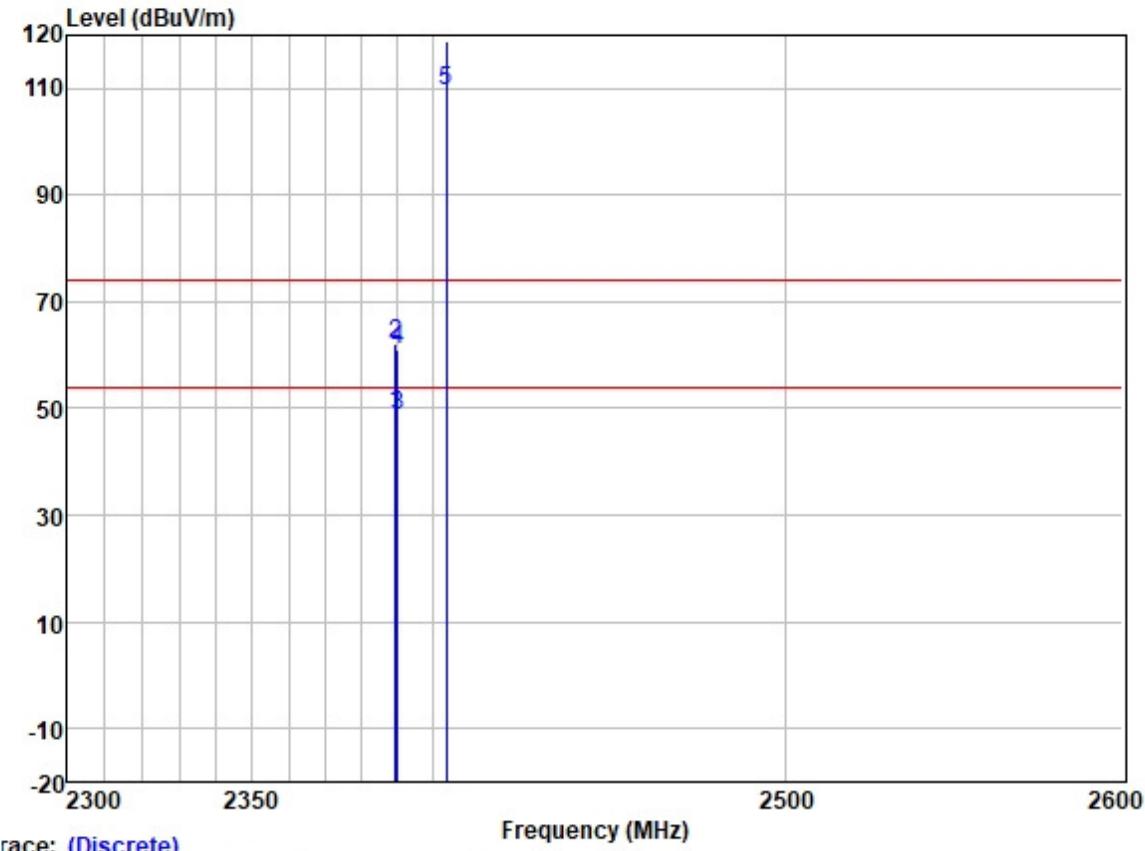
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Test Mode: 00; Polarity: Vertical; Modulation: OFDM; Channel: Low



Race: (Discrete)	ReadAntenna		Cable		Preamp		Limit	Over		Remark
	Freq	Level	Factor	Loss	Factor	Level		Line	Limit	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2389.242	55.80	27.33	3.48	37.59	49.02	54.00	-4.98	VERTICAL	Average
2	2389.242	68.87	27.33	3.48	37.59	62.09	74.00	-11.91	VERTICAL	Peak
3	2390.000	55.55	27.33	3.48	37.59	48.77	54.00	-5.23	VERTICAL	Average
4	2390.000	67.65	27.33	3.48	37.59	60.87	74.00	-13.13	VERTICAL	Peak
5 *	2403.500	116.22	27.35	3.50	37.59	109.48	54.00	55.48	VERTICAL	Average
6 *	2403.500	125.45	27.35	3.50	37.59	118.71	74.00	44.71	VERTICAL	Peak

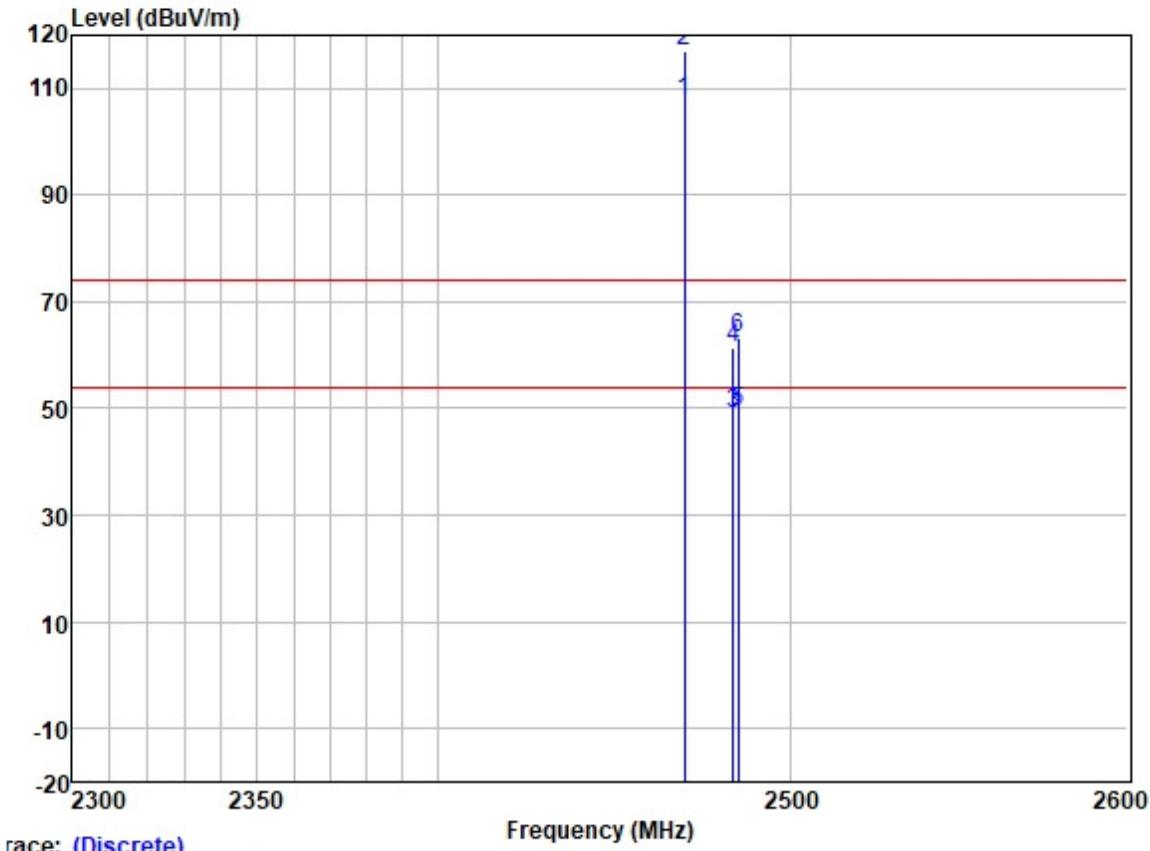
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Test Mode: 00; Polarity: Horizontal; Modulation: OFDM; Channel: High



Race: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 * 2469.500	114.14	27.46	3.55	37.57	107.58	54.00	53.58	HORIZONTAL	Average
2 * 2469.500	123.70	27.46	3.55	37.57	117.14	74.00	43.14	HORIZONTAL	Peak
3 2483.500	55.79	27.48	3.53	37.57	49.23	54.00	-4.77	HORIZONTAL	Average
4 2483.500	67.77	27.48	3.53	37.57	61.21	74.00	-12.79	HORIZONTAL	Peak
5 2484.994	55.98	27.48	3.53	37.57	49.42	54.00	-4.58	HORIZONTAL	Average
6 2484.994	69.87	27.48	3.53	37.57	63.31	74.00	-10.69	HORIZONTAL	Peak

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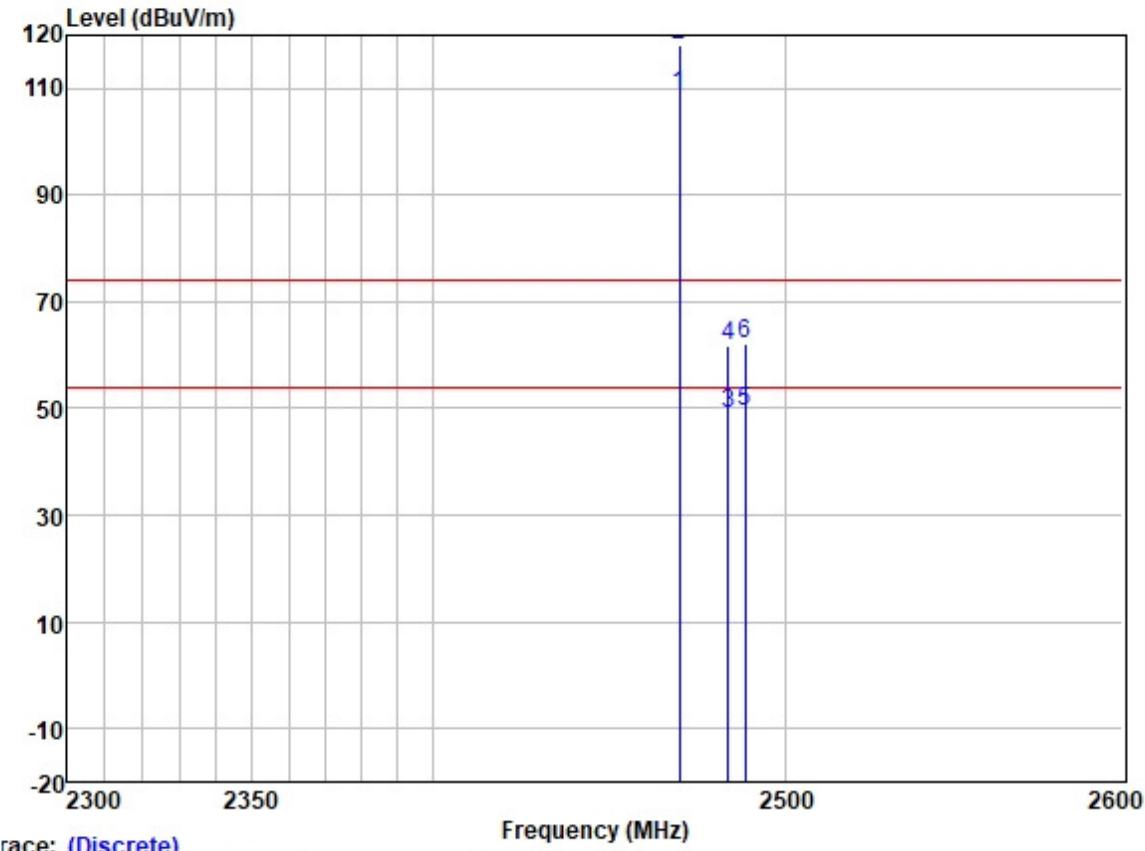
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Test Mode: 00; Polarity: Vertical; Modulation: OFDM; Channel: High



Race: (Discrete)

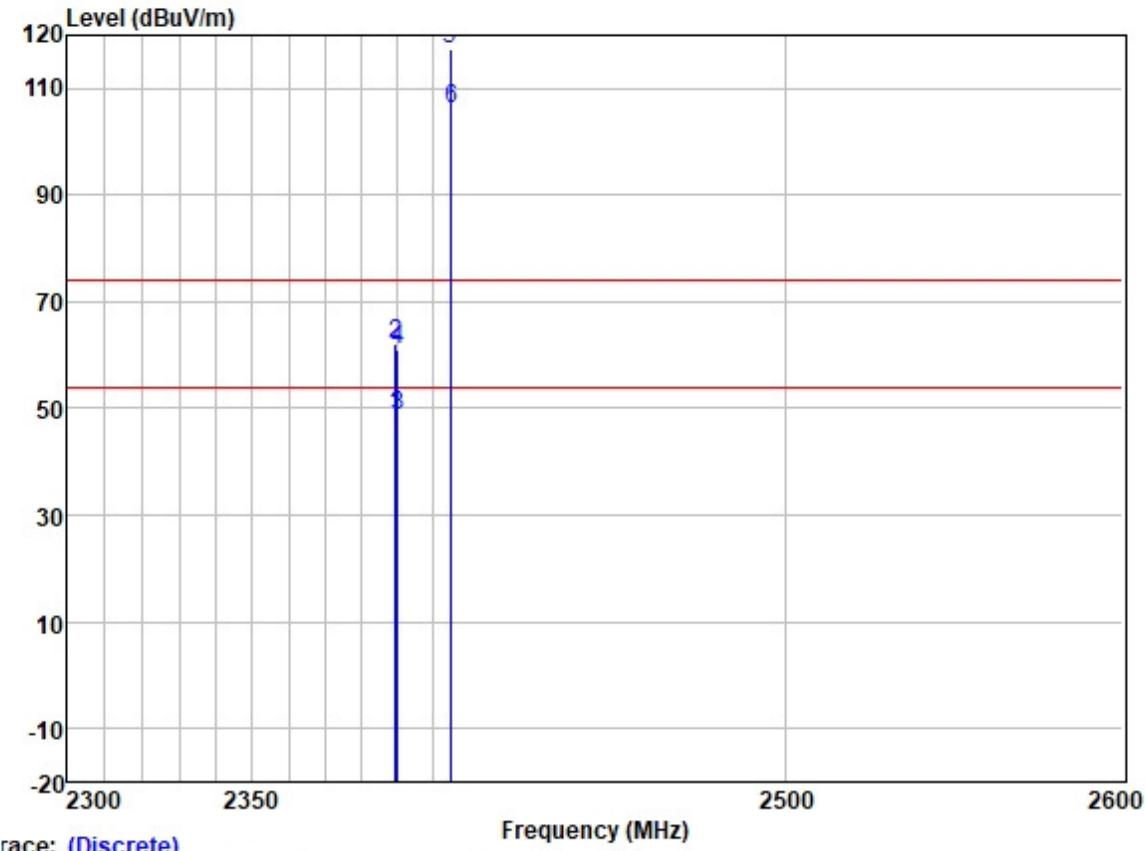
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 * 2469.500	115.41	27.46	3.55	37.57	108.85	54.00	54.85	VERTICAL	Average
2 * 2469.500	124.52	27.46	3.55	37.57	117.96	74.00	43.96	VERTICAL	Peak
3 2483.500	55.81	27.48	3.53	37.57	49.25	54.00	-4.75	VERTICAL	Average
4 2483.500	68.50	27.48	3.53	37.57	61.94	74.00	-12.06	VERTICAL	Peak
5 2488.310	55.91	27.48	3.53	37.56	49.36	54.00	-4.64	VERTICAL	Average
6 2488.310	68.50	27.48	3.53	37.56	61.95	74.00	-12.05	VERTICAL	Peak

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Test Mode: 01; Polarity: Horizontal; Modulation: OFDM; Channel: Low



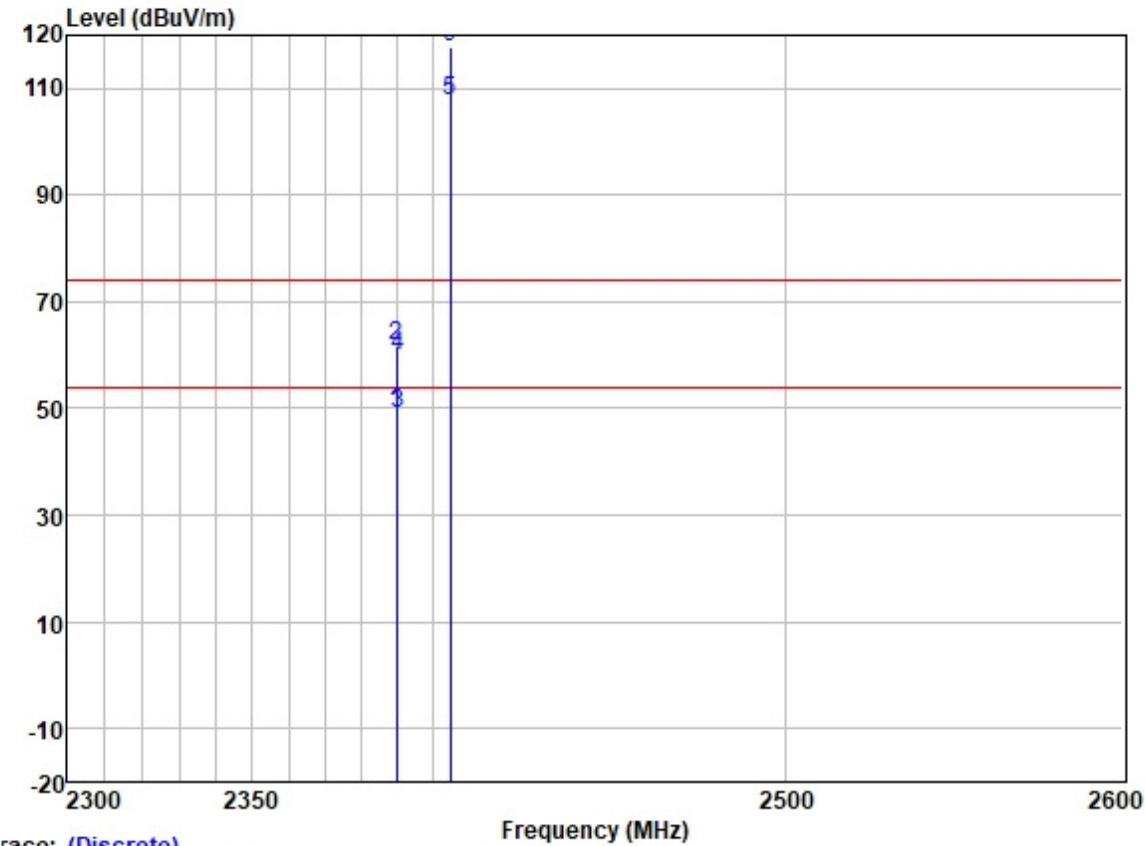
ReadAntenna	Cable	Preamp	Limit		Over	Pol/Phase	Remark				
			Freq	Level	Factor	Loss	Factor	Level	Line	Line	Over
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	Over
1	2389.363	55.61	27.33	3.48	37.59	48.83	54.00	-5.17	HORIZONTAL	Average	
2	2389.363	68.92	27.33	3.48	37.59	62.14	74.00	-11.86	HORIZONTAL	Peak	
3	2390.000	55.58	27.33	3.48	37.59	48.80	54.00	-5.20	HORIZONTAL	Average	
4	2390.000	67.67	27.33	3.48	37.59	60.89	74.00	-13.11	HORIZONTAL	Peak	
5 *	2404.537	124.19	27.36	3.48	37.59	117.44	74.00	43.44	HORIZONTAL	Peak	
6 *	2404.781	112.91	27.36	3.48	37.59	106.16	54.00	52.16	HORIZONTAL	Average	

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Test Mode: 01; Polarity: Vertical; Modulation: OFDM; Channel: Low



Race: (Discrete)

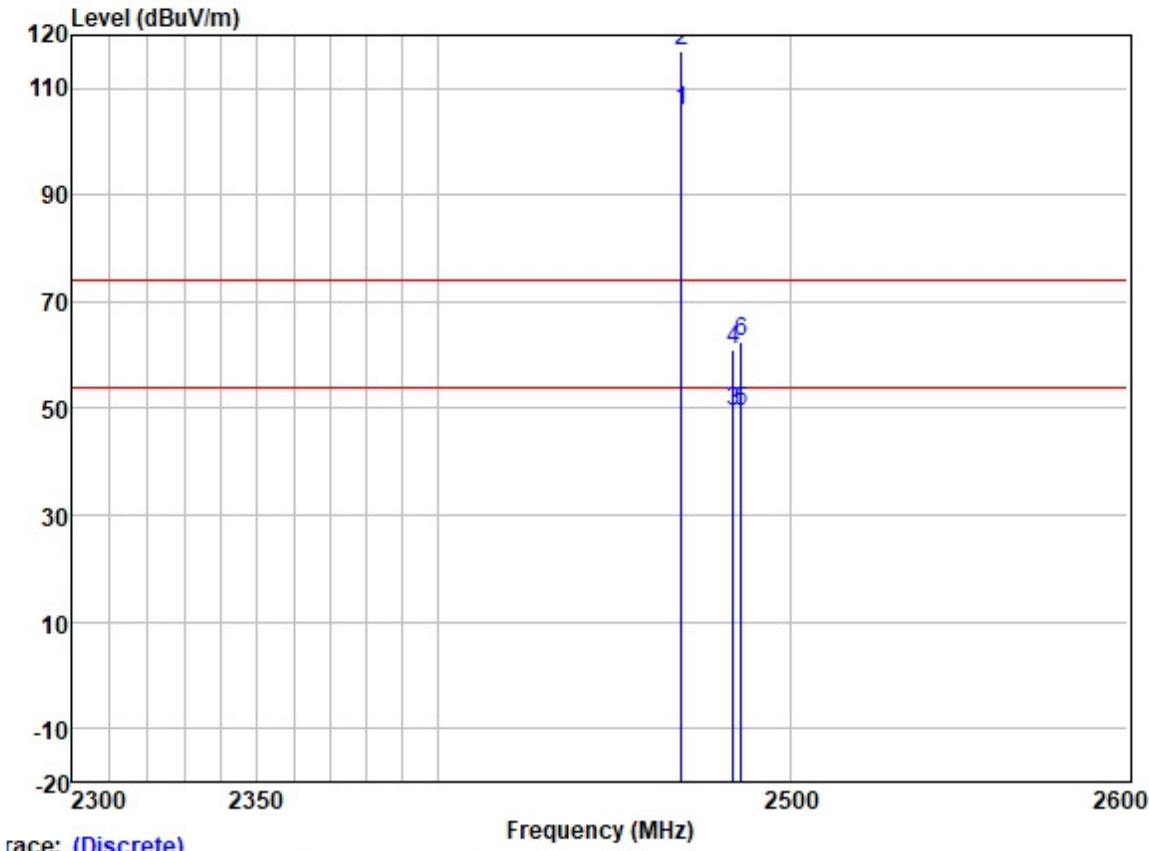
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2389.605	55.79	27.33	3.48	37.59	49.01	54.00	-4.99	VERTICAL	Average
2	2389.605	68.71	27.33	3.48	37.59	61.93	74.00	-12.07	VERTICAL	Peak
3	2390.000	55.68	27.33	3.48	37.59	48.90	54.00	-5.10	VERTICAL	Average
4	2390.000	66.61	27.33	3.48	37.59	59.83	74.00	-14.17	VERTICAL	Peak
5 *	2404.659	114.37	27.36	3.48	37.59	107.62	54.00	53.62	VERTICAL	Average
6 *	2404.659	124.50	27.36	3.48	37.59	117.75	74.00	43.75	VERTICAL	Peak

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Test Mode: 01; Polarity: Horizontal; Modulation: OFDM; Channel: High



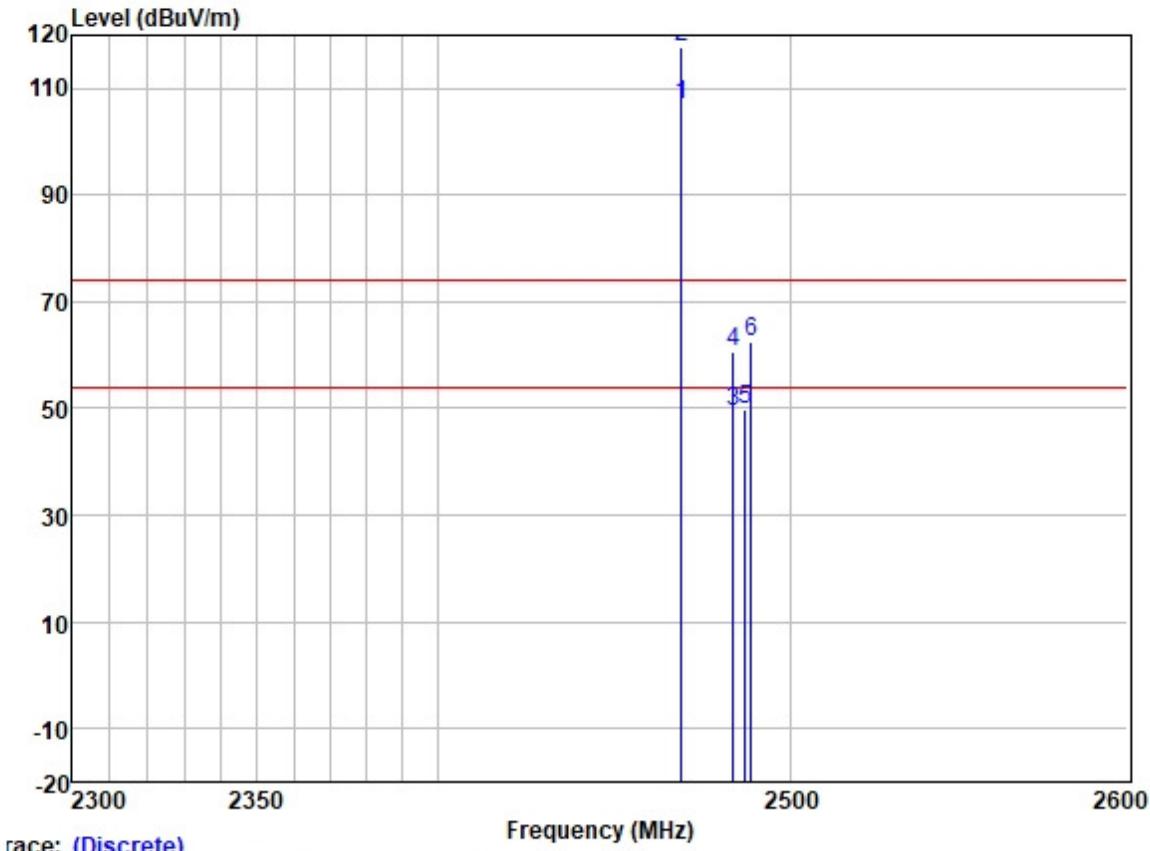
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 * 2468.500	112.25	27.46	3.55	37.57	105.69	54.00	51.69	HORIZONTAL	Average		
2 * 2468.500	123.56	27.46	3.55	37.57	117.00	74.00	43.00	HORIZONTAL	Peak		
3 2483.500	55.85	27.48	3.53	37.57	49.29	54.00	-4.71	HORIZONTAL	Average		
4 2483.500	67.70	27.48	3.53	37.57	61.14	74.00	-12.86	HORIZONTAL	Peak		
5 2485.848	55.97	27.48	3.53	37.57	49.41	54.00	-4.59	HORIZONTAL	Average		
6 2485.848	69.19	27.48	3.53	37.57	62.63	74.00	-11.37	HORIZONTAL	Peak		

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Test Mode: 01; Polarity: Vertical; Modulation: OFDM; Channel: High



Race: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 * 2468.500	113.58	27.46	3.55	37.57	107.02	54.00	53.02	VERTICAL	Average
2 * 2468.500	124.17	27.46	3.55	37.57	117.61	74.00	43.61	VERTICAL	Peak
3 2483.500	55.95	27.48	3.53	37.57	49.39	54.00	-4.61	VERTICAL	Average
4 2483.500	67.25	27.48	3.53	37.57	60.69	74.00	-13.31	VERTICAL	Peak
5 2486.802	56.19	27.48	3.53	37.57	49.63	54.00	-4.37	VERTICAL	Average
6 2488.662	68.89	27.48	3.53	37.56	62.34	74.00	-11.66	VERTICAL	Peak

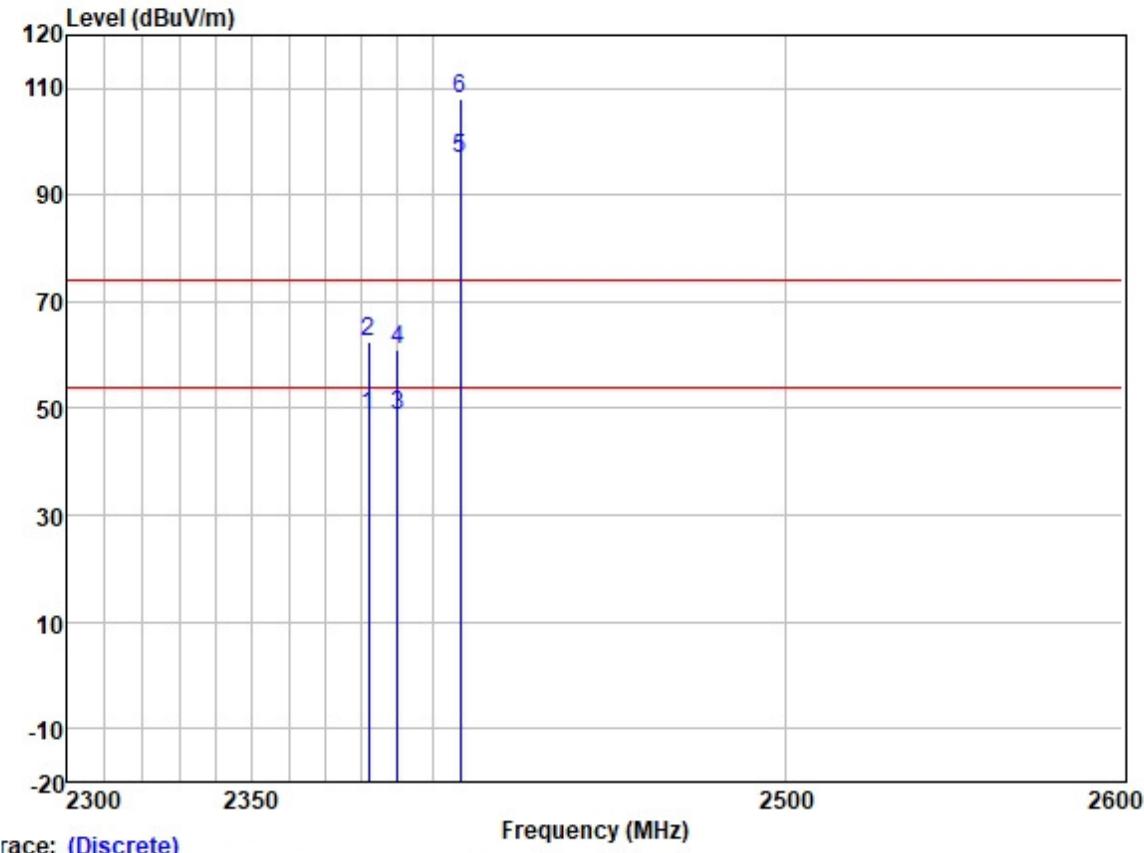
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Test Mode: 02; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	2381.752	55.64	27.31	3.46	37.60	48.81	54.00	-5.19	HORIZONTAL	Average	
2	2381.752	69.28	27.31	3.46	37.60	62.45	74.00	-11.55	HORIZONTAL	Peak	
3	2390.000	55.31	27.33	3.48	37.59	48.53	54.00	-5.47	HORIZONTAL	Average	
4	2390.000	67.69	27.33	3.48	37.59	60.91	74.00	-13.09	HORIZONTAL	Peak	
5 *	2407.500	103.79	27.36	3.48	37.59	97.04	54.00	43.04	HORIZONTAL	Average	
6 *	2407.500	114.97	27.36	3.48	37.59	108.22	74.00	34.22	HORIZONTAL	Peak	

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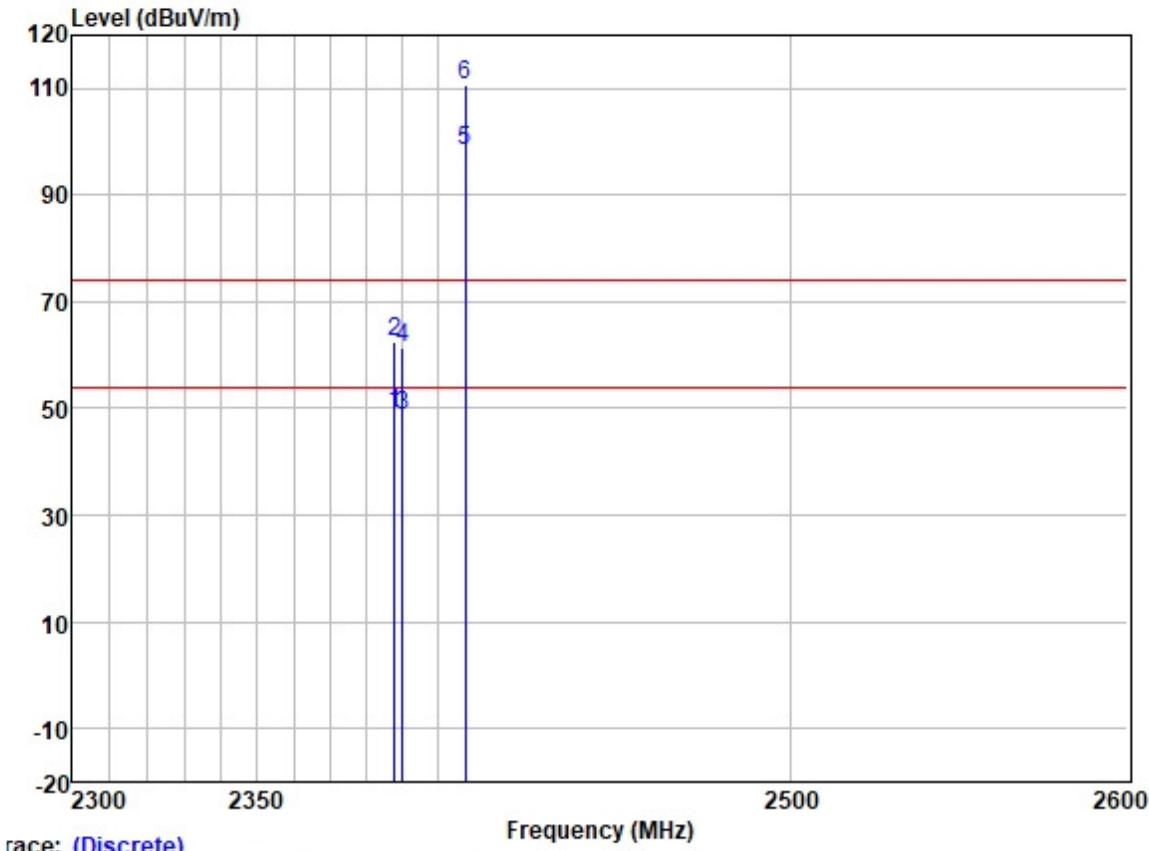
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Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Channel: Low



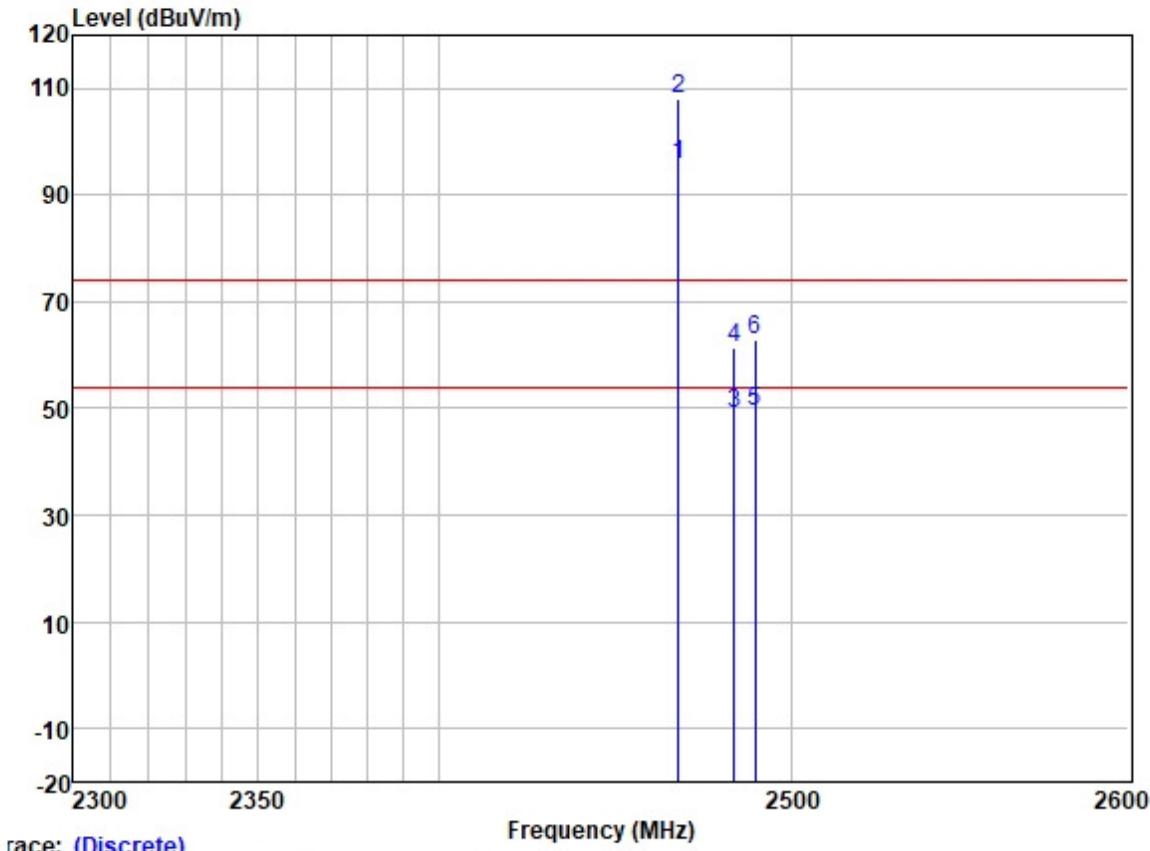
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2387.791	55.77	27.33	3.48	37.59	48.99	54.00	-5.01	VERTICAL Average
2	2387.791	69.23	27.33	3.48	37.59	62.45	74.00	-11.55	VERTICAL Peak
3	2390.000	55.48	27.33	3.48	37.59	48.70	54.00	-5.30	VERTICAL Average
4	2390.000	68.11	27.33	3.48	37.59	61.33	74.00	-12.67	VERTICAL Peak
5 *	2407.500	105.17	27.36	3.48	37.59	98.42	54.00	44.42	VERTICAL Average
6 *	2407.500	117.28	27.36	3.48	37.59	110.53	74.00	36.53	VERTICAL Peak

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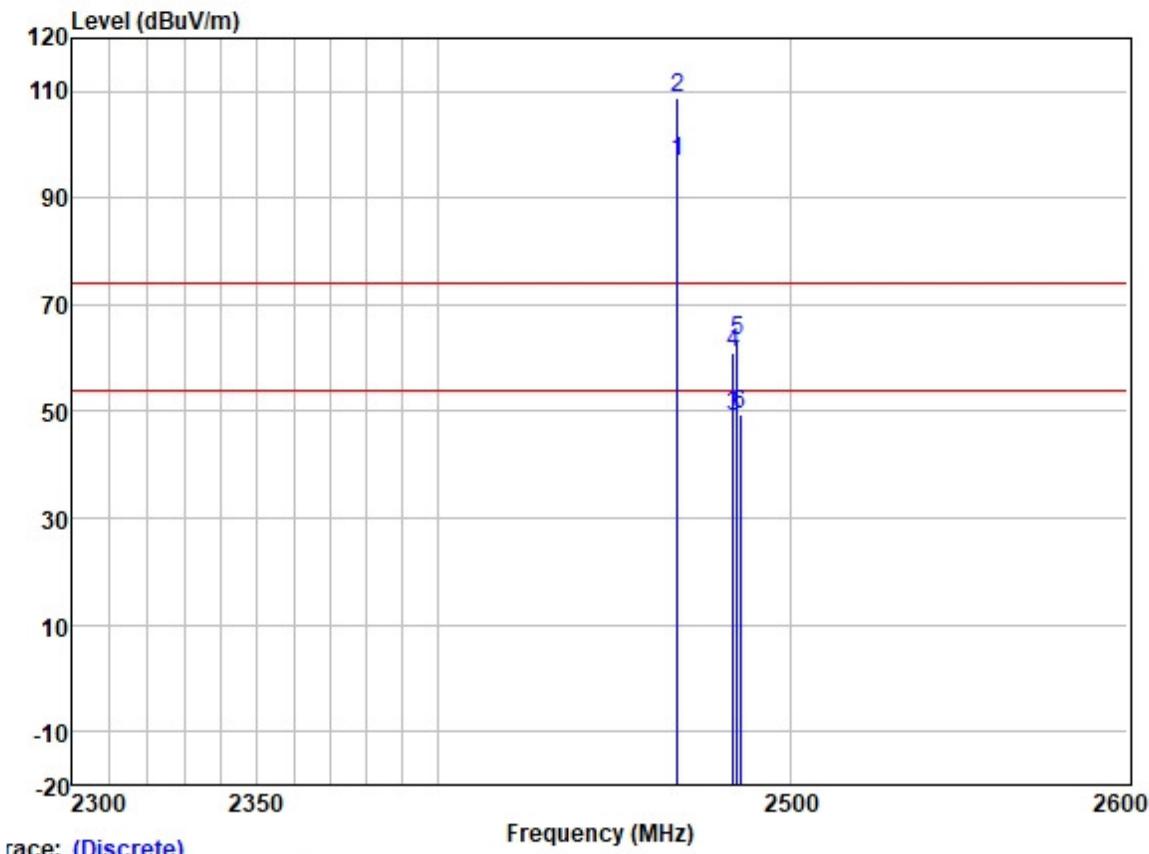
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Test Mode: 02; Polarity: Horizontal; Modulation: OFDM; Channel: High



Test Mode: 02; Polarity: Vertical; Modulation: OFDM; Channel: High



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Limit	Pol/Phase	Remark
	Freq	Level	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 * 2467.500	103.64	27.45	3.50	37.57	97.02	54.00	43.02	VERTICAL Average
2 * 2467.500	115.30	27.45	3.50	37.57	108.68	74.00	34.68	VERTICAL Peak
3 2483.500	55.75	27.48	3.53	37.57	49.19	54.00	-4.81	VERTICAL Average
4 2483.500	67.51	27.48	3.53	37.57	60.95	74.00	-13.05	VERTICAL Peak
5 2484.492	69.77	27.48	3.53	37.57	63.21	74.00	-10.79	VERTICAL Peak
6 2485.446	55.94	27.48	3.53	37.57	49.38	54.00	-4.62	VERTICAL Average

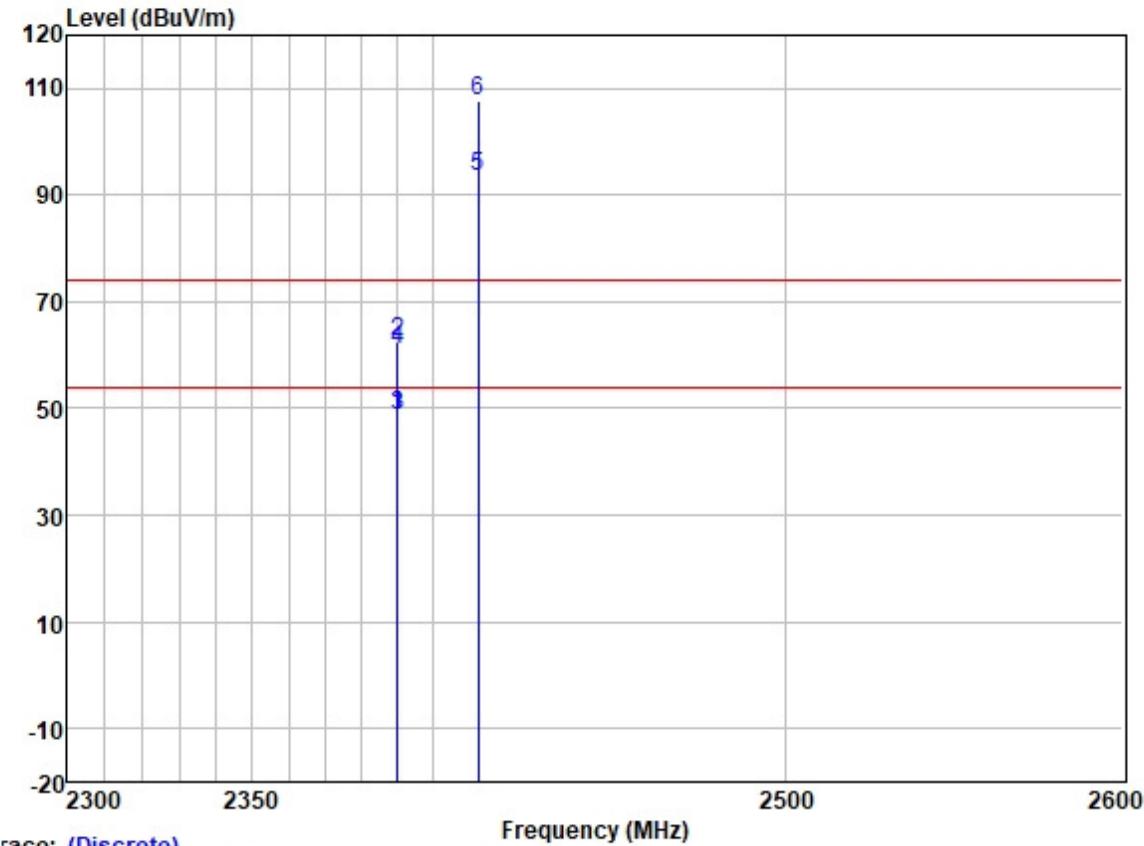
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Test Mode: 03; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Mode: (Discrete)

Index	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2389.773	55.55	27.33	3.48	37.59	48.77	54.00	-5.23	HORIZONTAL	Average
2	2389.773	69.38	27.33	3.48	37.59	62.60	74.00	-11.40	HORIZONTAL	Peak
3	2390.000	55.47	27.33	3.48	37.59	48.69	54.00	-5.31	HORIZONTAL	Average
4	2390.000	67.80	27.33	3.48	37.59	61.02	74.00	-12.98	HORIZONTAL	Peak
5 *	2412.500	100.29	27.38	3.47	37.59	93.55	54.00	39.55	HORIZONTAL	Average
6 *	2412.500	114.27	27.38	3.47	37.59	107.53	74.00	33.53	HORIZONTAL	Peak

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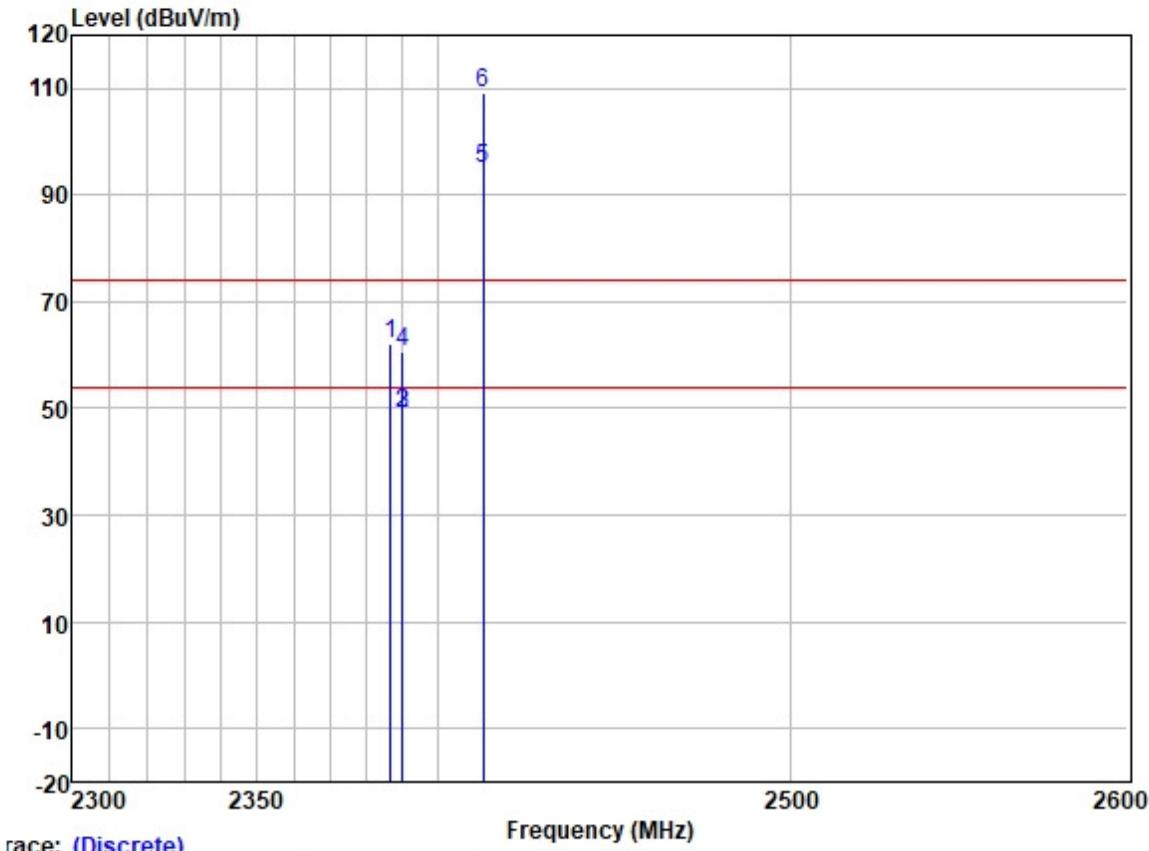
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Test Mode: 03; Polarity: Vertical; Modulation: OFDM; Channel: Low



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2386.682	68.82	27.33	3.48	37.60	62.03	74.00	-11.97	VERTICAL	Peak
2	2389.773	55.82	27.33	3.48	37.59	49.04	54.00	-4.96	VERTICAL	Average
3	2390.000	55.76	27.33	3.48	37.59	48.98	54.00	-5.02	VERTICAL	Average
4	2390.000	67.38	27.33	3.48	37.59	60.60	74.00	-13.40	VERTICAL	Peak
5 *	2412.500	101.67	27.38	3.47	37.59	94.93	54.00	40.93	VERTICAL	Average
6 *	2412.500	115.90	27.38	3.47	37.59	109.16	74.00	35.16	VERTICAL	Peak

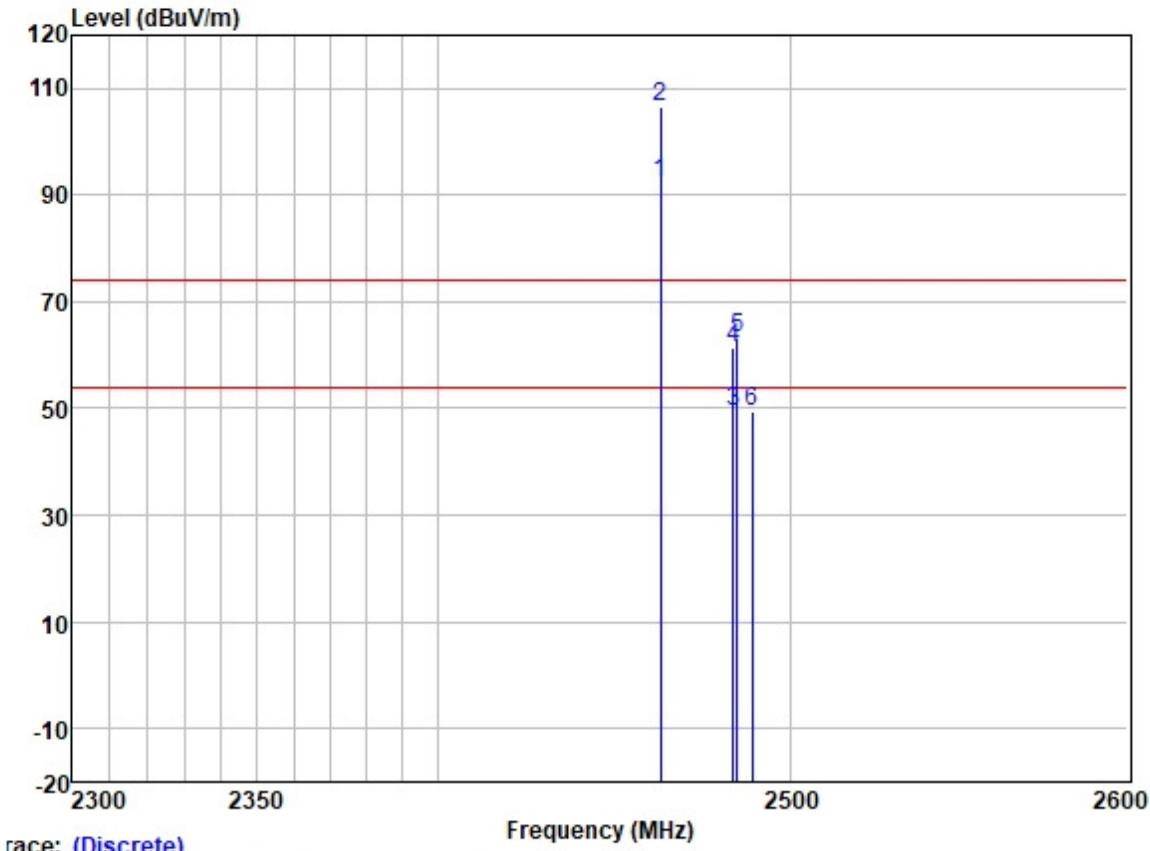
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Test Mode: 03; Polarity: Horizontal; Modulation: OFDM; Channel: High



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 * 2462.500	99.06	27.45	3.50	37.58	92.43	54.00	38.43	HORIZONTAL	Average	
2 * 2462.500	113.06	27.45	3.50	37.58	106.43	74.00	32.43	HORIZONTAL	Peak	
3 2483.500	55.82	27.48	3.53	37.57	49.26	54.00	-4.74	HORIZONTAL	Average	
4 2483.500	67.89	27.48	3.53	37.57	61.33	74.00	-12.67	HORIZONTAL	Peak	
5 2484.742	69.73	27.48	3.53	37.57	63.17	74.00	-10.83	HORIZONTAL	Peak	
6 2488.790	55.91	27.48	3.53	37.56	49.36	54.00	-4.64	HORIZONTAL	Average	

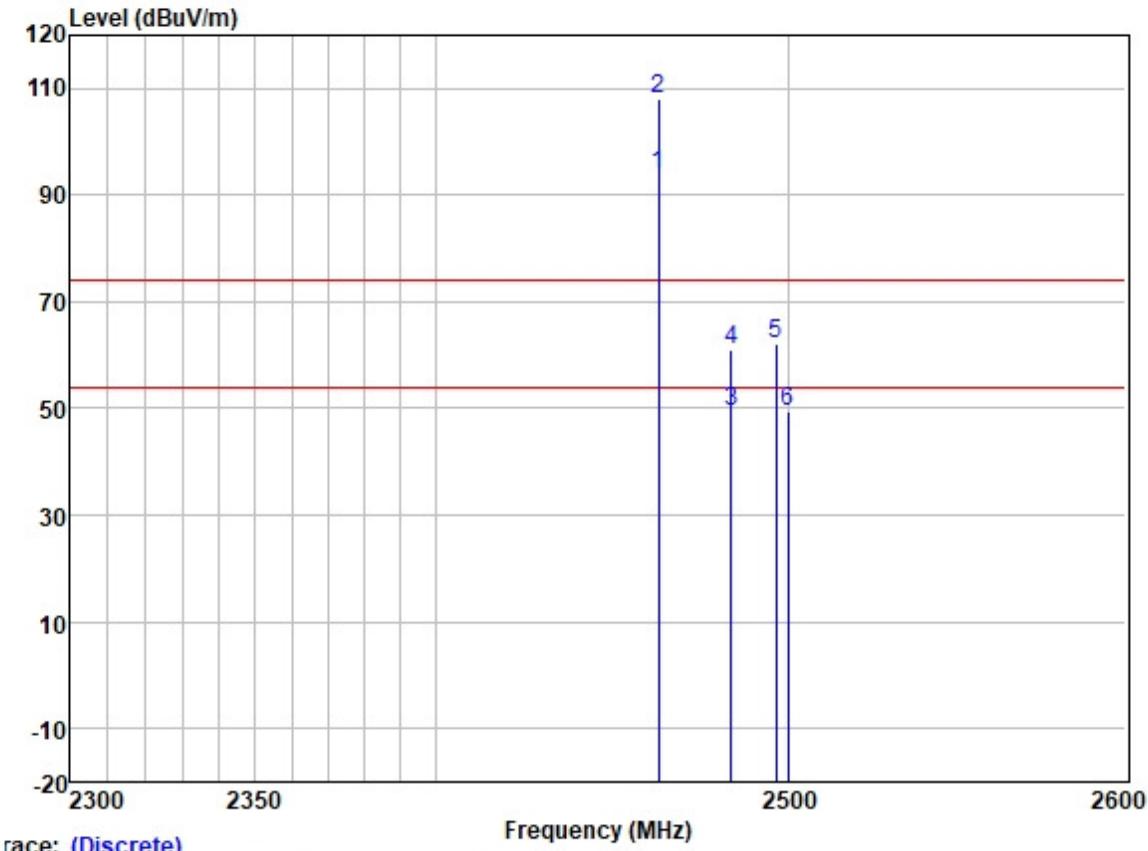
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Test Mode: 03; Polarity: Vertical; Modulation: OFDM; Channel: High



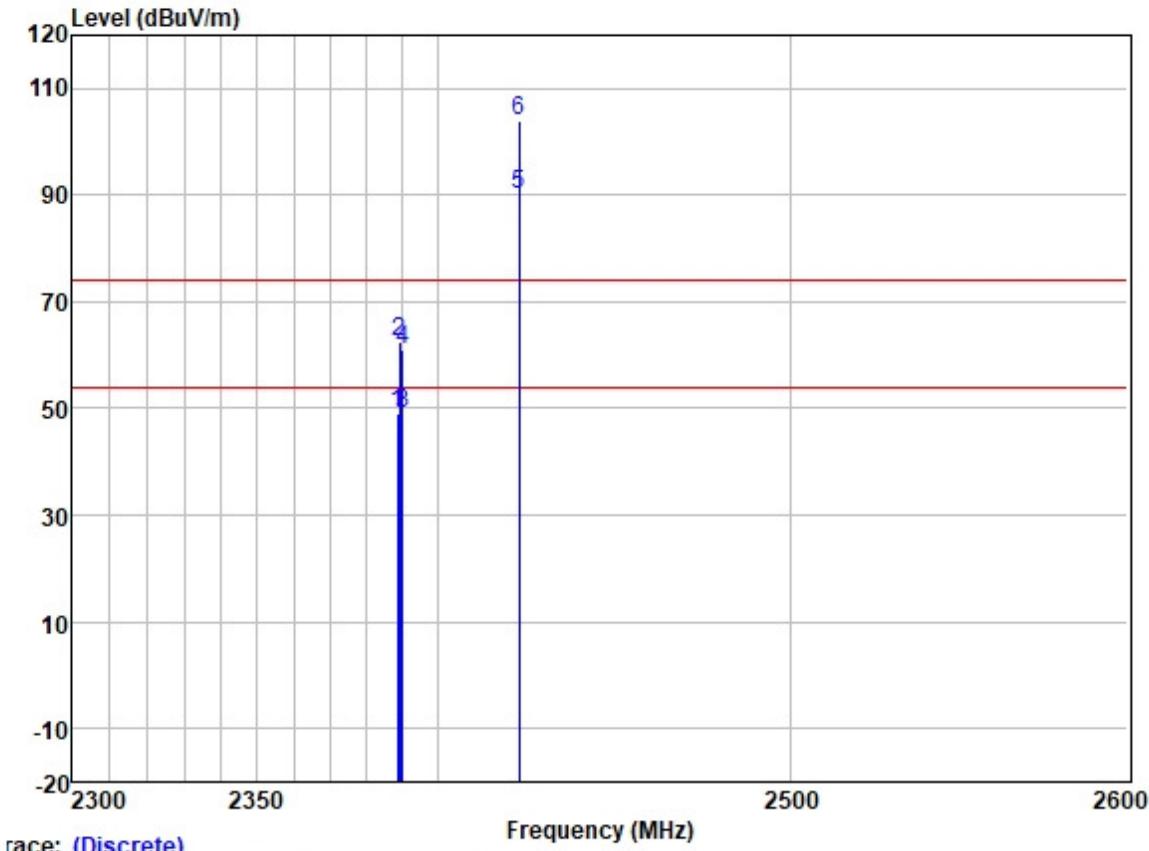
Freq	ReadAntenna	Cable	Preamp	Limit	Over	Limit	Pol/Phase	Remark
	Freq	Level	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2462.500	100.60	27.45	3.50	37.58	93.97	54.00	39.97 VERTICAL Average
2 *	2462.500	114.58	27.45	3.50	37.58	107.95	74.00	33.95 VERTICAL Peak
3	2483.500	55.89	27.48	3.53	37.57	49.33	54.00	-4.67 VERTICAL Average
4	2483.500	67.67	27.48	3.53	37.57	61.11	74.00	-12.89 VERTICAL Peak
5	2496.359	68.82	27.50	3.40	37.56	62.16	74.00	-11.84 VERTICAL Peak
6	2499.939	56.04	27.50	3.40	37.56	49.38	54.00	-4.62 VERTICAL Average

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Test Mode: 04; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Trace: (Discrete)

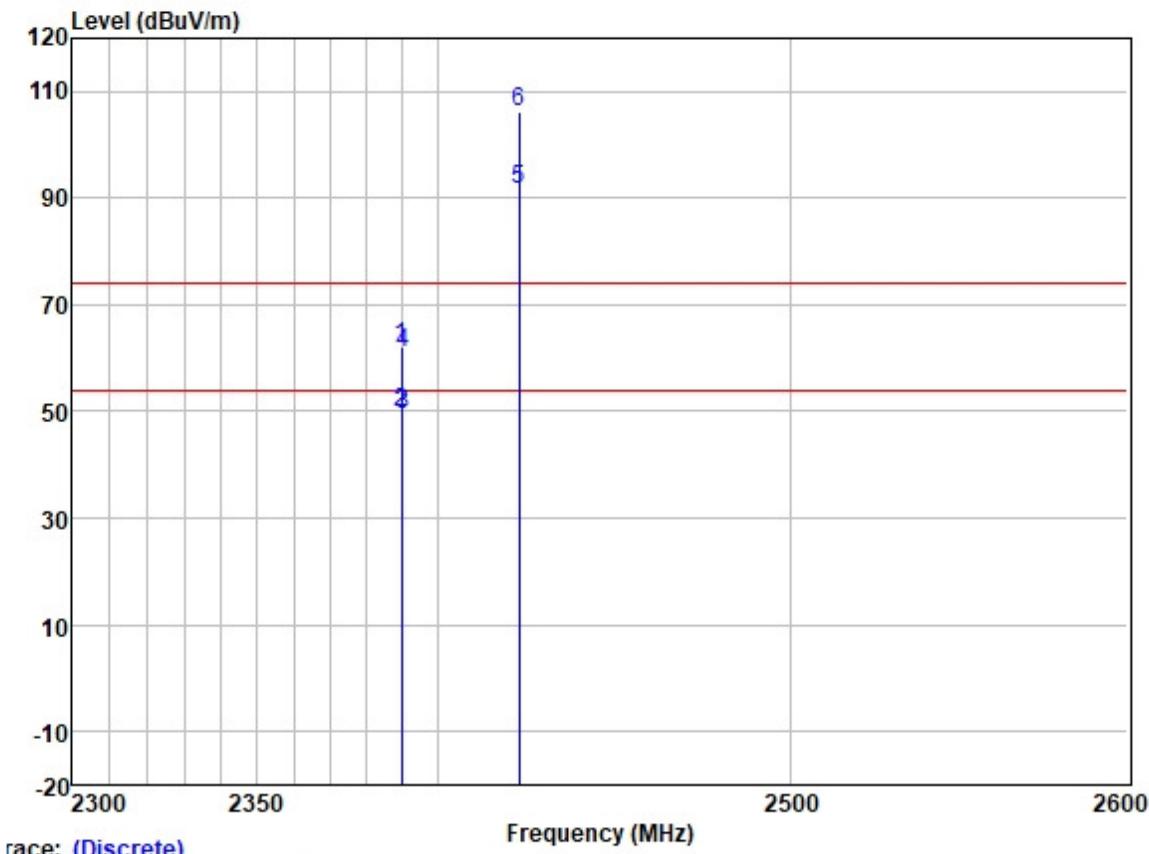
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 2388.511	55.83	27.33	3.48	37.59	49.05	54.00	-4.95	HORIZONTAL	Average	
2 2388.948	69.13	27.33	3.48	37.59	62.35	74.00	-11.65	HORIZONTAL	Peak	
3 2390.000	55.77	27.33	3.48	37.59	48.99	54.00	-5.01	HORIZONTAL	Average	
4 2390.000	67.61	27.33	3.48	37.59	60.83	74.00	-13.17	HORIZONTAL	Peak	
5 * 2422.500	96.87	27.39	3.45	37.58	90.13	54.00	36.13	HORIZONTAL	Average	
6 * 2422.500	110.81	27.39	3.45	37.58	104.07	74.00	30.07	HORIZONTAL	Peak	

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Test Mode: 04; Polarity: Vertical; Modulation: OFDM; Channel: Low



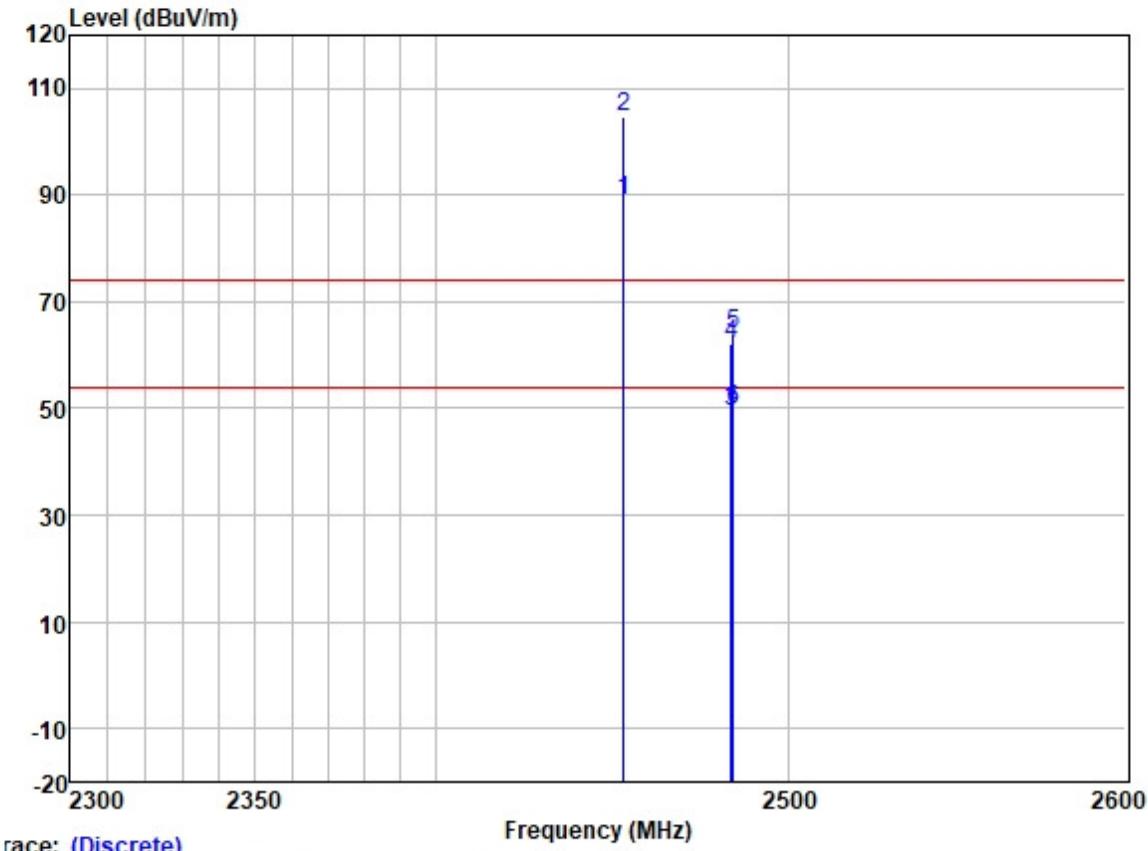
ReadAntenna	Cable	Preamp	Limit		Over	Pol/Phase	Remark			
			Freq	Level	Factor	Loss	Factor	Level	Line	Line
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2389.529	68.79	27.33	3.48	37.59	62.01	74.00	-11.99	VERTICAL	Peak
2	2389.675	56.48	27.33	3.48	37.59	49.70	54.00	-4.30	VERTICAL	Average
3	2390.000	56.39	27.33	3.48	37.59	49.61	54.00	-4.39	VERTICAL	Average
4	2390.000	67.87	27.33	3.48	37.59	61.09	74.00	-12.91	VERTICAL	Peak
5 *	2422.500	98.53	27.39	3.45	37.58	91.79	54.00	37.79	VERTICAL	Average
6 *	2422.500	112.82	27.39	3.45	37.58	106.08	74.00	32.08	VERTICAL	Peak

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Test Mode: 04; Polarity: Horizontal; Modulation: OFDM; Channel: High



Race: (Discrete)

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 * 2452.500	95.86	27.43	3.40	37.58	89.11	54.00	35.11	HORIZONTAL	Average
2 * 2452.500	111.39	27.43	3.40	37.58	104.64	74.00	30.64	HORIZONTAL	Peak
3 2483.500	56.13	27.48	3.53	37.57	49.57	54.00	-4.43	HORIZONTAL	Average
4 2483.500	68.56	27.48	3.53	37.57	62.00	74.00	-12.00	HORIZONTAL	Peak
5 2484.020	70.40	27.48	3.53	37.57	63.84	74.00	-10.16	HORIZONTAL	Peak
6 2484.076	56.24	27.48	3.53	37.57	49.68	54.00	-4.32	HORIZONTAL	Average

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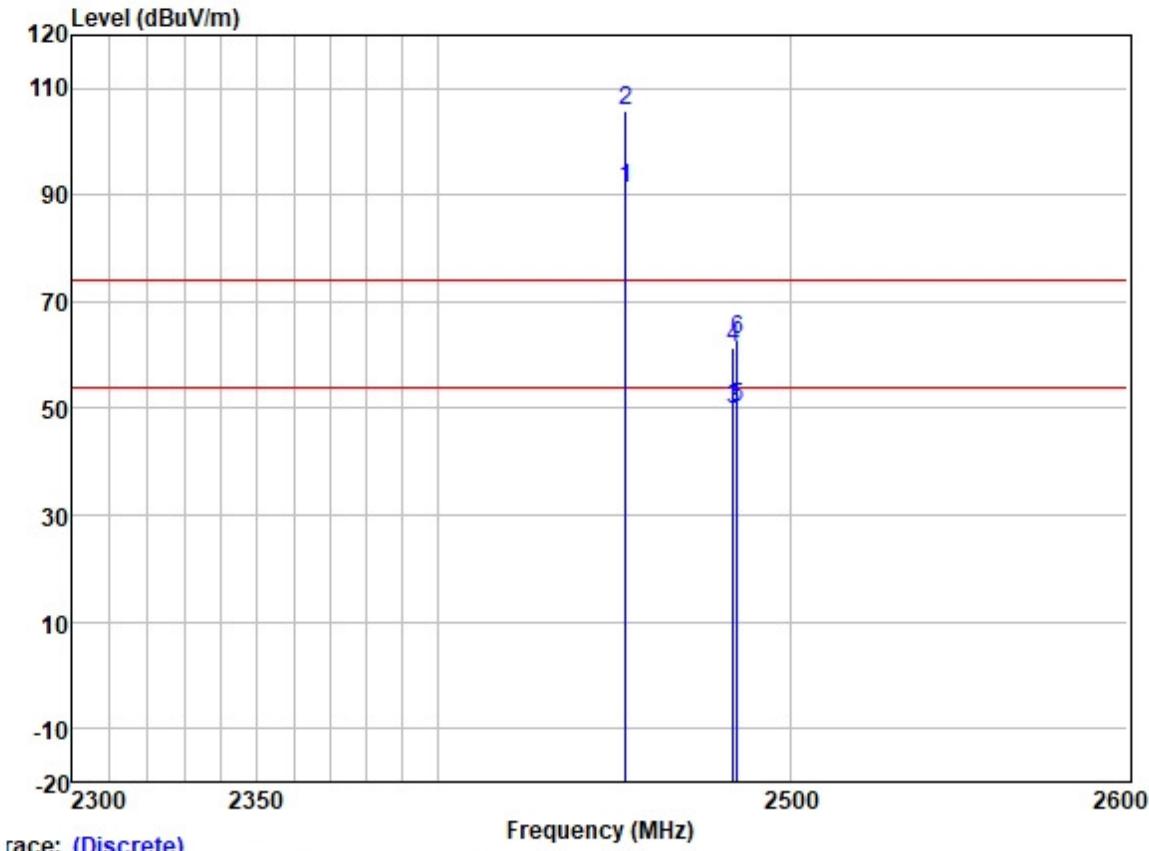
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Test Mode: 04; Polarity: Vertical; Modulation: OFDM; Channel: High



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV/m	dB	
1 * 2452.500	97.86	27.43	3.40	37.58	91.11	54.00	37.11	VERTICAL	Average
2 * 2452.500	112.49	27.43	3.40	37.58	105.74	74.00	31.74	VERTICAL	Peak
3 2483.500	56.45	27.48	3.53	37.57	49.89	54.00	-4.11	VERTICAL	Average
4 2483.500	68.12	27.48	3.53	37.57	61.56	74.00	-12.44	VERTICAL	Peak
5 2484.500	56.60	27.48	3.53	37.57	50.04	54.00	-3.96	VERTICAL	Average
6 2484.711	69.55	27.48	3.53	37.57	62.99	74.00	-11.01	VERTICAL	Peak

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7.7 Radiated Spurious Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

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
960-1000	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. Radiated emission limits in the two 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

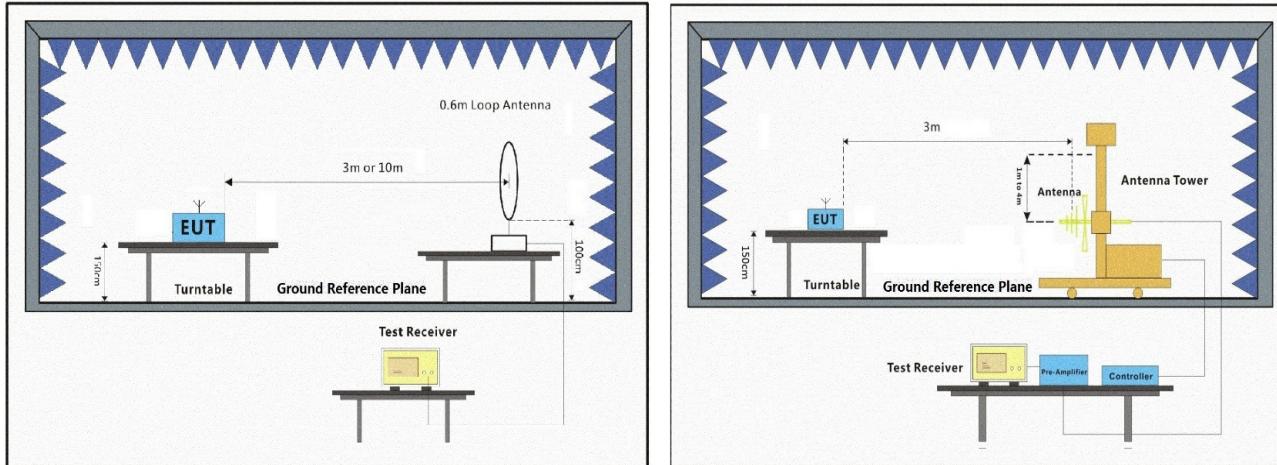
7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(2.4G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	01	TX mode(2.4G SDR 3MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	02	TX mode(2.4G SDR 10MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	03	TX mode(2.4G SDR 20MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	04	TX mode(2.4G SDR 40MHz)_Keep the EUT in continuously transmitting mode with modulation

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7.7.3 Test Setup Diagram

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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. 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) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 1 GHz, 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.

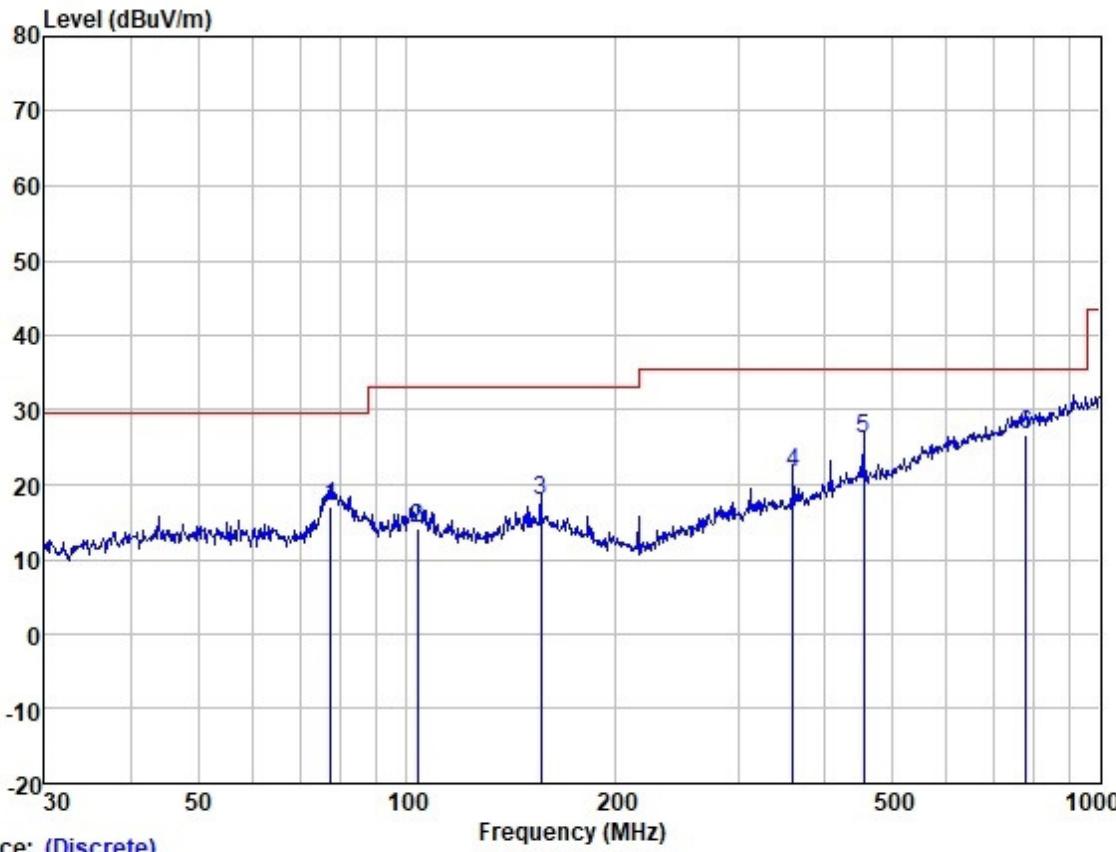
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Test Mode: 00; Polarity: Horizontal; Modulation: OFDM; Channel: Middle



Site : SGS

Condition:

Job :

Model :

Power :

Test Mode:

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Over	Over	Over	Over	Over
	Level	Factor	Loss	Factor								
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB
1	77.593	33.22	9.47	1.46	27.10	17.05	29.50	-12.45	HORIZONTAL	QP		
2	103.442	30.09	9.24	1.75	27.07	14.01	33.10	-19.09	HORIZONTAL	QP		
3	155.910	29.04	13.44	2.30	26.81	17.97	33.10	-15.13	HORIZONTAL	QP		
4	360.448	30.53	14.50	3.70	27.11	21.62	35.60	-13.98	HORIZONTAL	QP		
5	455.906	32.46	17.10	4.22	27.75	26.03	35.60	-9.57	HORIZONTAL	QP		
6	782.345	26.39	22.22	6.11	28.05	26.67	35.60	-8.93	HORIZONTAL	QP		

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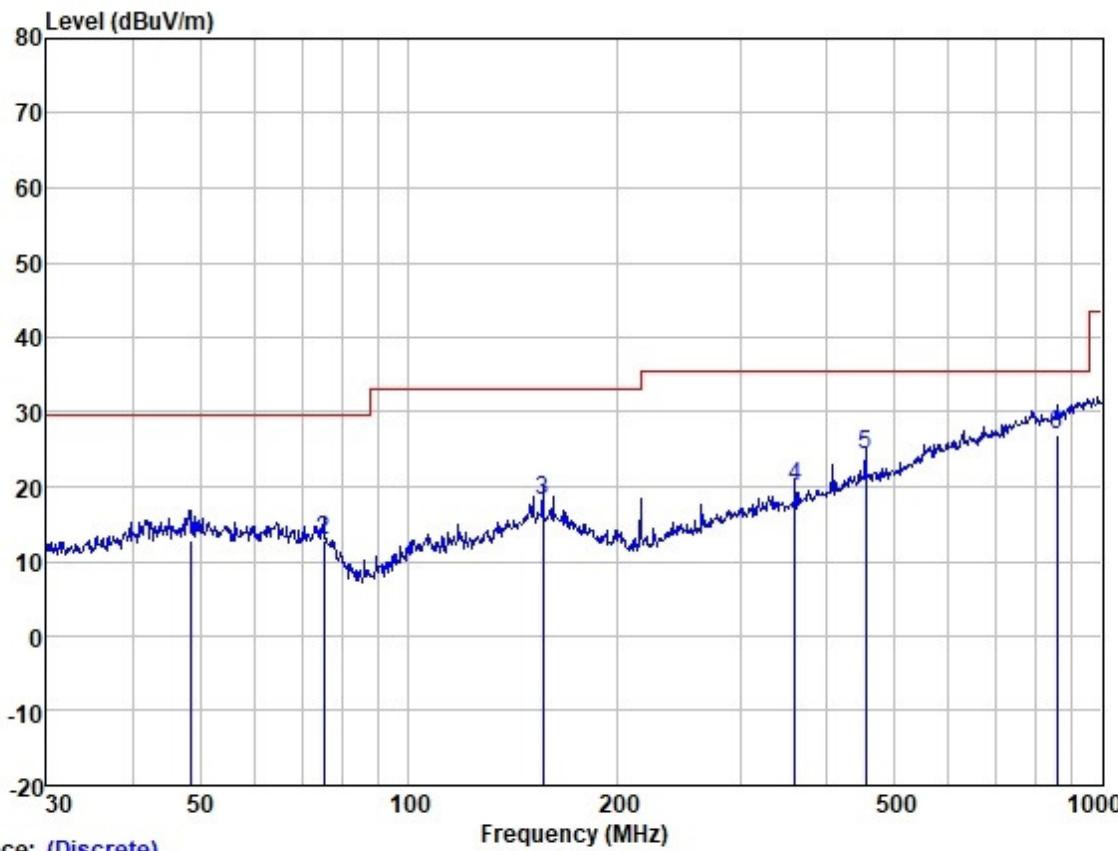
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Test Mode: 00; Polarity: Vertical; Modulation: OFDM; Channel: Middle



Site : SGS

Condition:

Job :

Model :

Power :

Test Mode:

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.332	25.24	13.71	1.13	27.17	12.91	29.50	-16.59 VERTICAL QP
2	75.446	28.35	10.16	1.45	27.11	12.85	29.50	-16.65 VERTICAL QP
3	155.910	29.23	13.44	2.30	26.81	18.16	33.10	-14.94 VERTICAL QP
4	360.448	28.90	14.50	3.70	27.11	19.99	35.60	-15.61 VERTICAL QP
5	455.906	30.68	17.10	4.22	27.75	24.25	35.60	-11.35 VERTICAL QP
6	860.035	25.67	22.60	6.63	27.91	26.99	35.60	-8.61 VERTICAL QP

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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_3 : Level @ 3m distance. Unit: uV/m;

L_{10} : Level @ 10m distance. Unit: uV/m;

D_3 : 3m distance. Unit: m

D_{10} : 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
77.593	17.05	7.12	23.73	27.51	40	-12.49	H
103.442	14.01	5.02	16.73	24.47	43.5	-19.03	H
155.910	17.97	7.92	26.39	28.43	43.5	-15.07	H
360.448	21.62	12.05	40.17	32.08	46	-13.92	H
455.906	26.03	20.02	66.74	36.49	46	-9.51	H
782.345	26.67	21.55	71.84	37.13	46	-8.87	H
48.332	12.91	4.42	14.74	23.37	40	-16.63	V
75.446	12.85	4.39	14.63	23.31	40	-16.69	V
155.910	18.16	8.09	26.97	28.62	43.5	-14.88	V
360.448	19.99	9.99	33.29	30.45	46	-15.55	V
455.906	24.25	16.31	54.37	34.71	46	-11.29	V
860.035	26.99	22.36	74.54	37.45	46	-8.55	V

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