

TEST REPORT**Application No.:**

GZCR2204000437AT

Applicant:

DT Research, Inc.

Address of Applicant:

3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan

Manufacturer:

DT Research, Inc.

Address of Manufacturer:

2000 Concourse Drive, San Jose, CA 95131, USA

Factory:

DT Research, Inc. Taiwan Branch

Address of Factory:

6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan

Equipment Under Test (EUT):**EUT Name:** Mobile Tablet**Model No.:** 316T, 316T/MD, 316xxxx(x= 0-9, A-Z, - or null, or .,or /)

* Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark:**Standard(s) :**

47 CFR Part 15, Subpart C 15.247

Date of Receipt:

2022-04-13

Date of Test:

2022-04-14 to 2022-04-29

Date of Issue:

2022-05-05

Test Result:

Pass*

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

Kobe Jian
EMC Laboratory Manager

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-05-05		Original

Authorized for issue by			
	Curry Wu/Project Engineer		
	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 Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
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

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.

Declaration of EUT Family Grouping:

Model No.: 316xxxx(x= 0-9, A-Z, - or null, or .,or /)

Only the model 316T was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No..

This report is prepared for FCC class II permissive change.

The modular approval by TCB, FCC ID:YE3600-AX200NG, Granted on 05/25/2020.

The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. The Original FCC testing on module under FCC ID: YE3600-AX200NG was performed with an antenna of lower gain, and the antenna was connected to the module in an open environment. The current host platform under application uses a new antenna, lower gain and is installed outside the host platform enclosure.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model 316T and shown the data in this report.

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3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	5
4.1 Details of E.U.T	5
4.2 Description of Support Units	6
4.3 Measurement Uncertainty	6
4.4 Test Location	6
4.5 Test Facility	7
4.6 Deviation from Standards	7
4.7 Abnormalities from Standard Conditions	7
5 Equipment List	8
6 Radio Spectrum Technical Requirement	10
6.1 Antenna Requirement	10
6.1.1 Test Requirement:	10
6.1.2 Conclusion	10
7 Radio Spectrum Matter Test Results	11
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	11
7.1.1 E.U.T. Operation	11
7.1.2 Test Mode Description	11
7.1.3 Test Setup Diagram	11
7.1.4 Measurement Procedure and Data	12
7.2 Radiated Emissions which fall in the restricted bands	15
7.2.1 E.U.T. Operation	15
7.2.2 Test Mode Description	15
7.2.3 Test Setup Diagram	16
7.2.4 Measurement Procedure and Data	16
7.3 Radiated Spurious Emissions (Below 1GHz)	65
7.3.1 E.U.T. Operation	65
7.3.2 Test Mode Description	65
7.3.3 Test Setup Diagram	66
7.3.4 Measurement Procedure and Data	66
7.4 Radiated Spurious Emissions (Above 1GHz)	69
7.4.1 E.U.T. Operation	69
7.4.2 Test Mode Description	69
7.4.3 Test Setup Diagram	70
7.4.4 Measurement Procedure and Data	71
8 Test Setup Photo	132
9 EUT Constructional Details (EUT Photos)	132



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4 General Information

4.1 Details of E.U.T.

Power supply:

AC Adapter

Model: A11-065N1A

Input: AC 100-240V, 50/60Hz, 1.7A

Output: DC 19V, 3.42A, 65W

Rechargeable Lithium-Ion Polymer Battery

Model: ACC-006-60K(3ICP9/36/115)

Rated Capacity: 5400mAh

Voltage: DC 11.4V

Watt-Hour: 61.56Wh

Max Charge Voltage: 13.05V

Wall Cradle: ACC-WM210-16TMA

Cable(s):

DC cable: 175cm with a ferrite core

Operation Frequency:

802.11b/g/n/ax(HT20): 2412MHz to 2472MHz

802.11n/ax(HT40): 2422MHz to 2462MHz

Modulation Type:

802.11b: DSSS (CCK, DQPSK, DBPSK)

802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM)

802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)

802.11ax(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)

Channel Numbers:

802.11b/g, 802.11n/ax HT20: 13 Channels

802.11n/ax HT40: 9 Channels

Antenna Type:

PIFA Antenna

Antenna Gain:

Antenna0: 2.0dBi, Antenna1: 2.6dBi

Note: MIMO for 802.11n/ax.

Channel list for 802.11b/g/n/ax(HT20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz	13	2472MHz
2	2417MHz	6	2437MHz	10	2457MHz		
3	2422MHz	7	2442MHz	11	2462MHz		
4	2427MHz	8	2447MHz	12	2467MHz		

Channel list for 802.11n/ax(HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz
4	2427MHz	7	2442MHz	10	2457MHz
5	2432MHz	8	2447MHz	11	2462MHz

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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
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
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)

4.4 Test Location

All tests were performed at:

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Guangzhou, China 510663

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No tests were sub-contracted.

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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/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, IEC60061 and Rules of procedure IEC60062, and the relevant IEC60065 CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-12-23	2022-12-22
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2021-06-01	2022-05-31

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	2022-03-03	2025-03-02
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

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



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EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	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 (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	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

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 connector is a IPEX type that comply with Part15.203, the best case gain of the antenna0 is 2.0dBi, antenna1 is 2.6dBi.

Antenna location: Refer to internal photo.



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7.1.4 Measurement Procedure and Data

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

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

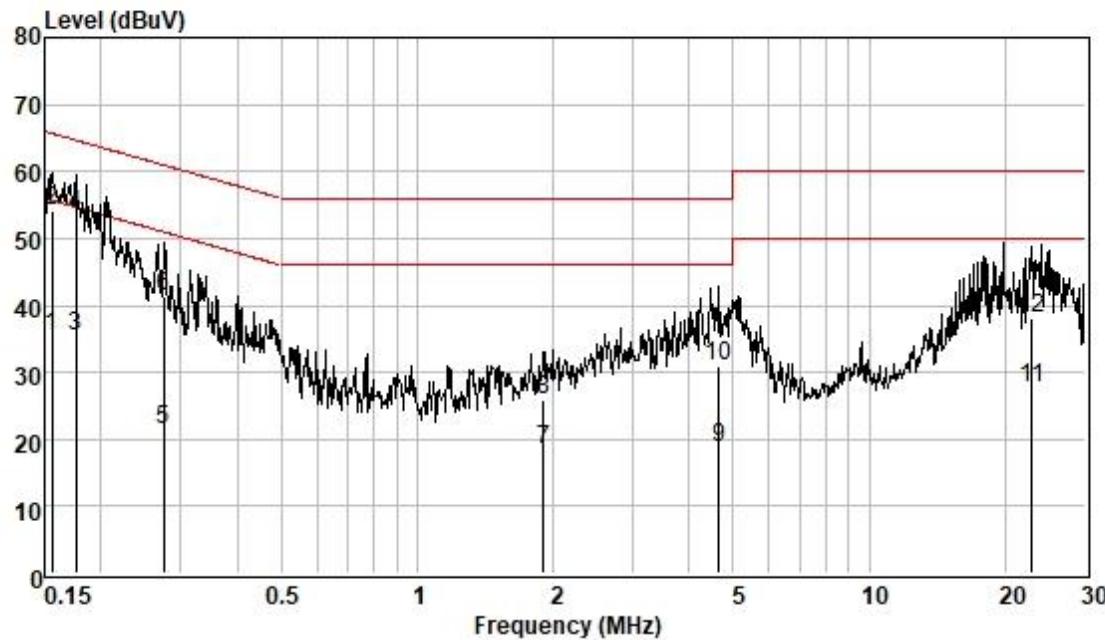


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Test Mode: 13; Line: Live line



Pol :LINE

Mode :

Model :

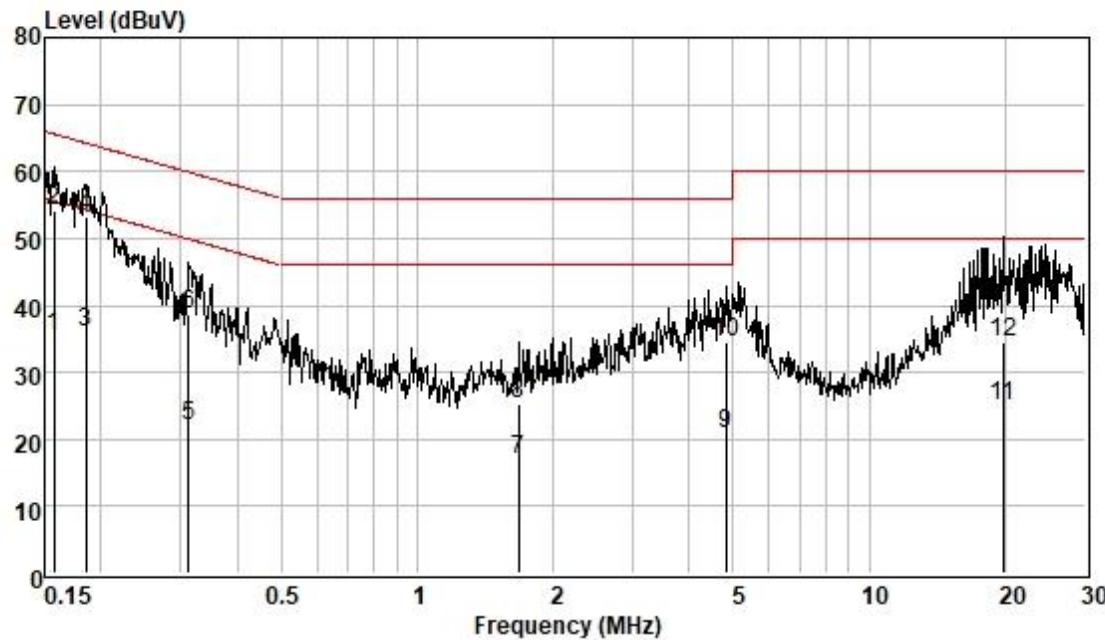
	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.156	25.78	0.06	9.54	35.38	55.69	-20.31	Average
2	0.156	44.47	0.06	9.54	54.07	65.69	-11.62	QP
3	0.176	25.65	0.06	9.55	35.26	54.68	-19.42	Average
4	0.176	43.97	0.06	9.55	53.58	64.68	-11.10	QP
5	0.274	11.69	0.06	9.57	21.32	50.98	-29.66	Average
6	0.274	31.64	0.06	9.57	41.27	60.98	-19.71	QP
7	1.898	8.76	0.11	9.60	18.47	46.00	-27.53	Average
8	1.898	16.23	0.11	9.60	25.94	56.00	-30.06	QP
9	4.647	8.92	0.18	9.65	18.75	46.00	-27.25	Average
10	4.647	21.07	0.18	9.65	30.90	56.00	-25.10	QP
11	22.896	17.37	0.39	9.81	27.57	50.00	-22.43	Average
12	22.896	27.99	0.39	9.81	38.19	60.00	-21.81	QP

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Test Mode: 13; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

	Frequenc	Read Level	Cable Loss	LISN Factor	Measured Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.157	25.73	0.06	9.53	35.32	55.60	-20.28	Average
2	0.157	44.41	0.06	9.53	54.00	65.60	-11.60	QP
3	0.185	26.26	0.06	9.55	35.87	54.24	-18.37	Average
4	0.185	43.74	0.06	9.55	53.35	64.24	-10.89	QP
5	0.312	12.36	0.06	9.57	21.99	49.93	-27.94	Average
6	0.312	29.06	0.06	9.57	38.69	59.93	-21.24	QP
7	1.671	7.36	0.11	9.59	17.06	46.00	-28.94	Average
8	1.671	15.46	0.11	9.59	25.16	56.00	-30.84	QP
9	4.822	10.96	0.18	9.66	20.80	46.00	-25.20	Average
10	4.822	24.66	0.18	9.66	34.50	56.00	-21.50	QP
11	19.740	14.71	0.36	9.90	24.97	50.00	-25.03	Average
12	19.740	24.37	0.36	9.90	34.63	60.00	-25.37	QP

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7.2 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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Mode Final test	Mode Code	Description
Pre-scan	12	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.
Final test	13	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.

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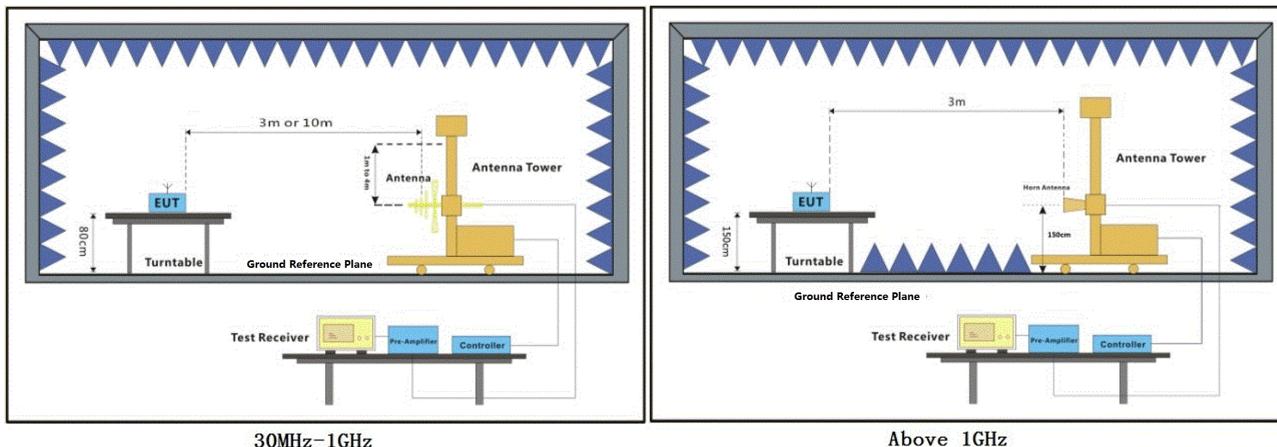


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7.2.3 Test Setup Diagram



7.2.4 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 Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

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

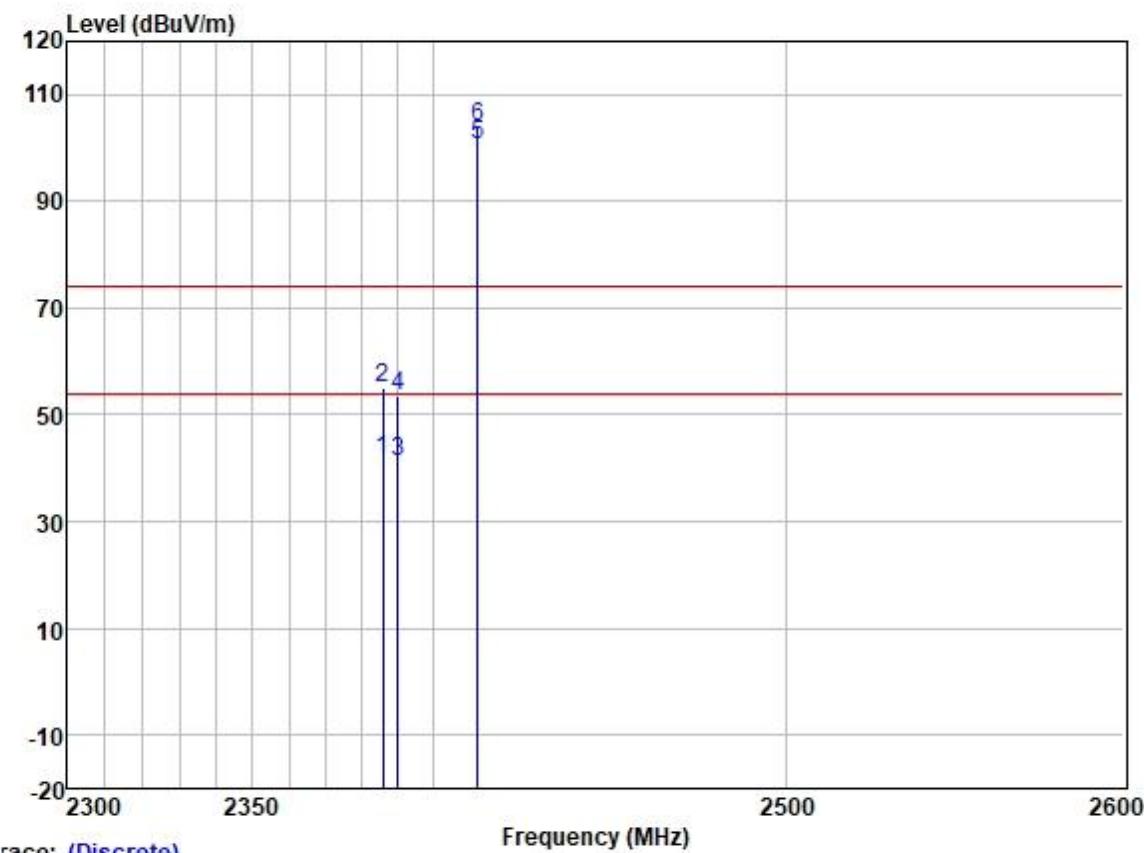
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

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Test Mode: 13; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1	2385.857	48.54	27.33	3.48	37.60	41.75	54.00	-12.25	HORIZONTAL	Average
2	2385.857	61.95	27.33	3.48	37.60	55.16	74.00	-18.84	HORIZONTAL	Peak
3	2390.000	48.10	27.33	3.48	37.59	41.32	54.00	-12.68	HORIZONTAL	Average
4	2390.000	60.30	27.33	3.48	37.59	53.52	74.00	-20.48	HORIZONTAL	Peak
5 *	2412.000	107.21	27.38	3.47	37.59	100.47	54.00	46.47	HORIZONTAL	Average
6 *	2412.000	110.76	27.38	3.47	37.59	104.02	74.00	30.02	HORIZONTAL	Peak

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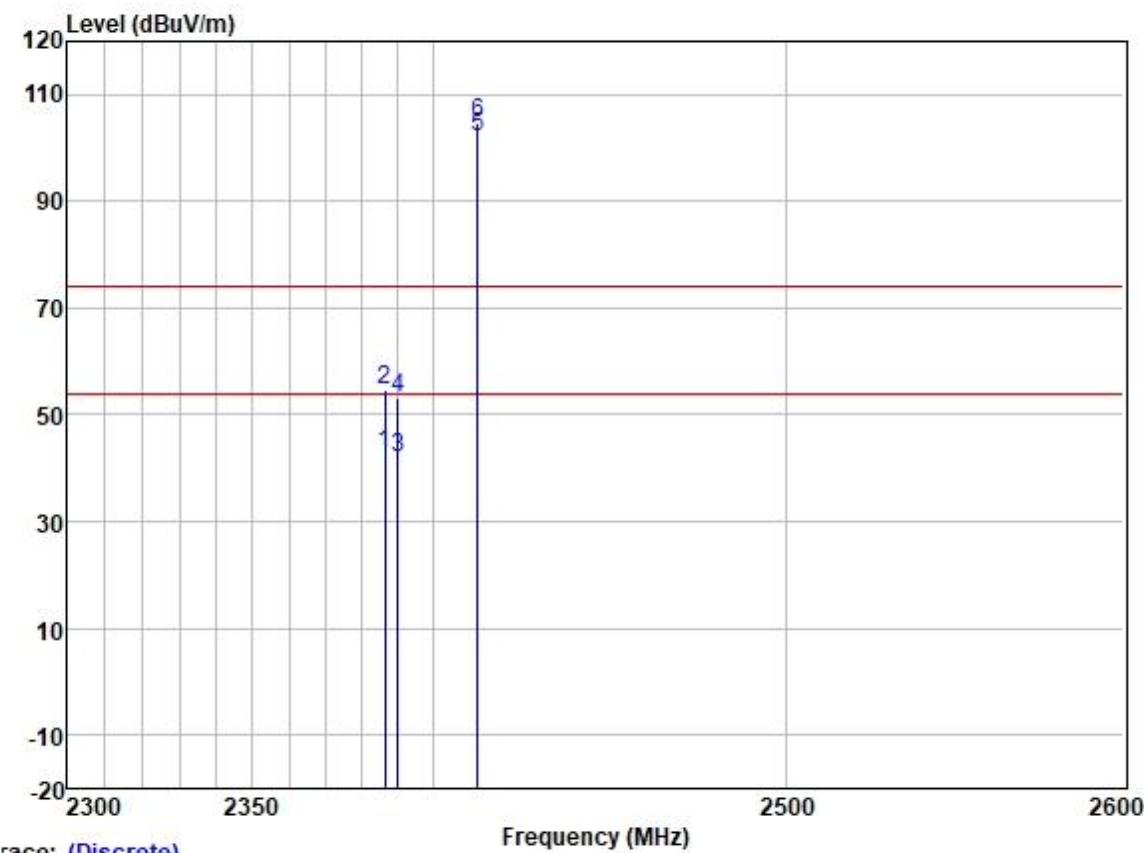
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Test Mode: 13; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

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 2386.219	49.51	27.33	3.48	37.60	42.72	54.00	-11.28	VERTICAL	Average
2 2386.219	61.52	27.33	3.48	37.60	54.73	74.00	-19.27	VERTICAL	Peak
3 2390.000	48.62	27.33	3.48	37.59	41.84	54.00	-12.16	VERTICAL	Average
4 2390.000	59.87	27.33	3.48	37.59	53.09	74.00	-20.91	VERTICAL	Peak
5 * 2412.000	108.67	27.38	3.47	37.59	101.93	54.00	47.93	VERTICAL	Average
6 * 2412.000	111.50	27.38	3.47	37.59	104.76	74.00	30.76	VERTICAL	Peak

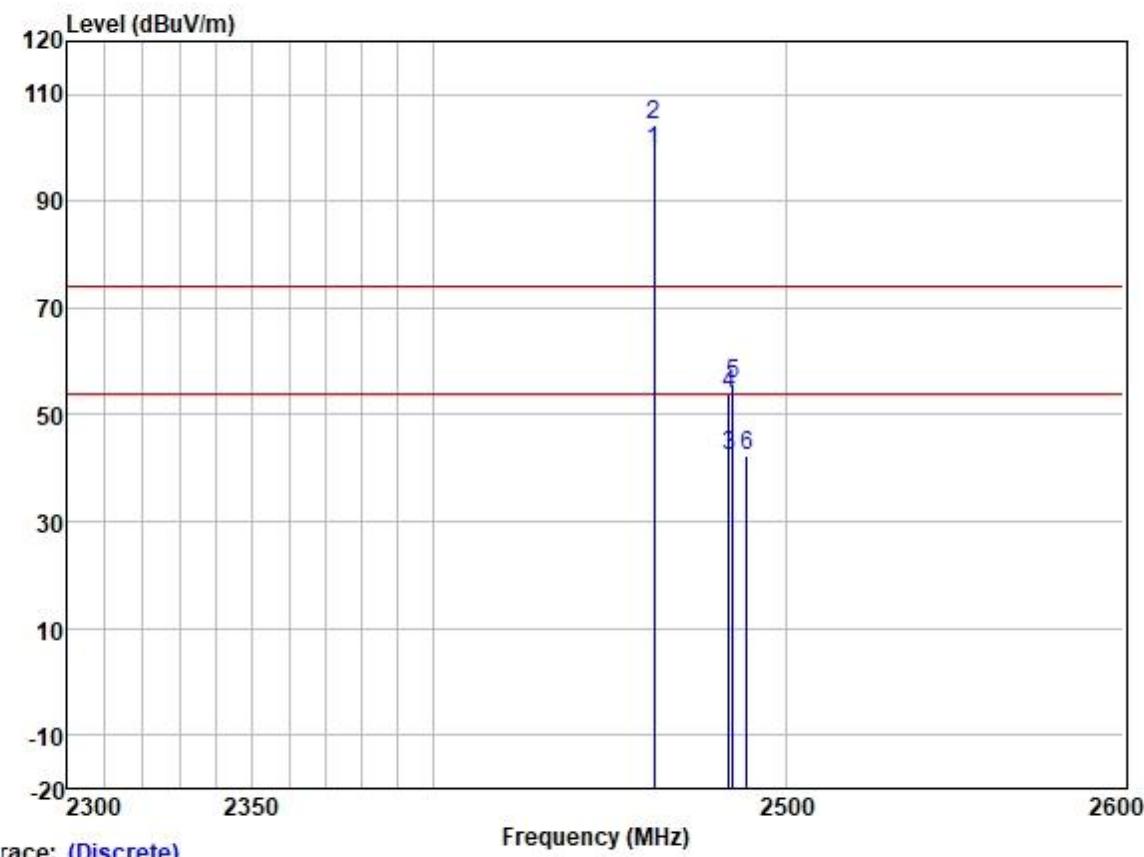
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 * 2462.000	105.98	27.45	3.50	37.58	99.35	54.00	45.35	HORIZONTAL	Average	
2 * 2462.000	110.98	27.45	3.50	37.58	104.35	74.00	30.35	HORIZONTAL	Peak	
3 2483.500	49.00	27.48	3.53	37.57	42.44	54.00	-11.56	HORIZONTAL	Average	
4 2483.500	60.64	27.48	3.53	37.57	54.08	74.00	-19.92	HORIZONTAL	Peak	
5 2484.542	62.41	27.48	3.53	37.57	55.85	74.00	-18.15	HORIZONTAL	Peak	
6 2488.511	49.00	27.48	3.53	37.56	42.45	54.00	-11.55	HORIZONTAL	Average	

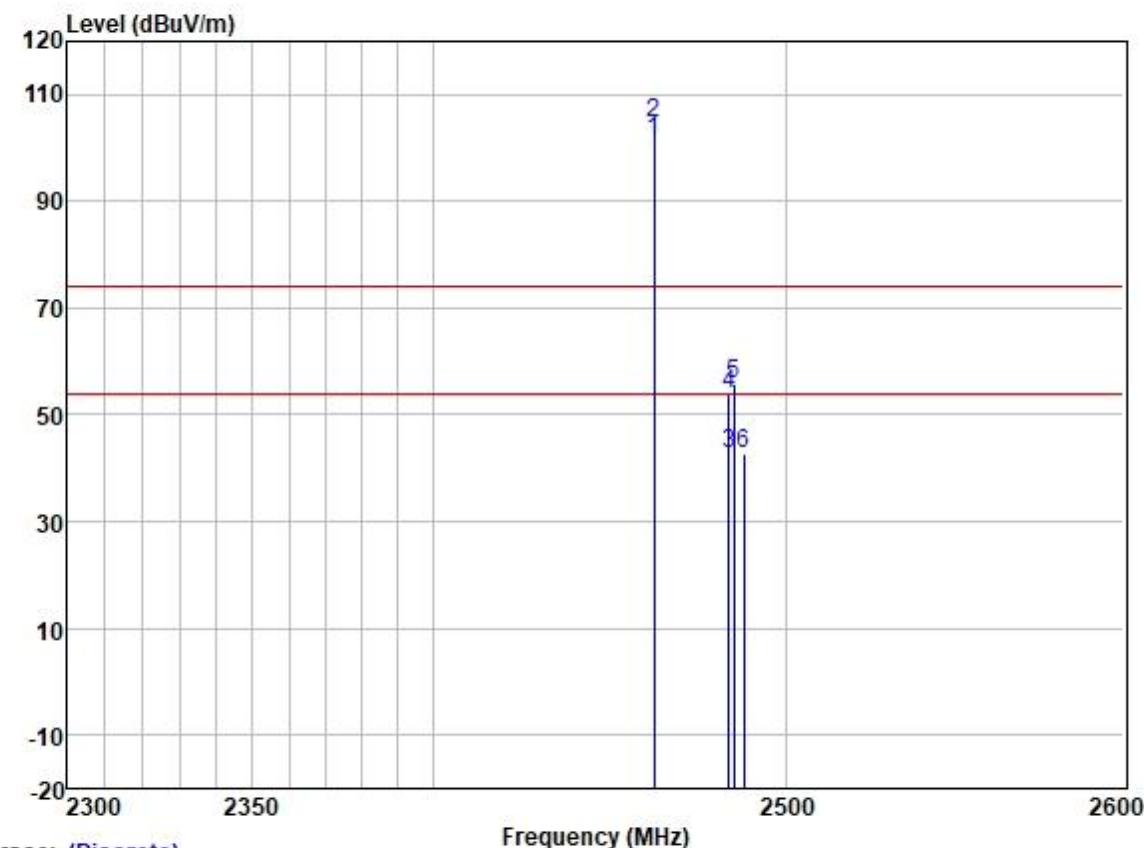
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Test Mode: 13; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 * 2462.000	108.01	27.45	3.50	37.58	101.38	54.00	47.38	VERTICAL	Average	
2 * 2462.000	111.34	27.45	3.50	37.58	104.71	74.00	30.71	VERTICAL	Peak	
3 2483.500	49.18	27.48	3.53	37.57	42.62	54.00	-11.38	VERTICAL	Average	
4 2483.500	60.43	27.48	3.53	37.57	53.87	74.00	-20.13	VERTICAL	Peak	
5 2484.894	62.28	27.48	3.53	37.57	55.72	74.00	-18.28	VERTICAL	Peak	
6 2487.656	49.32	27.48	3.53	37.56	42.77	54.00	-11.23	VERTICAL	Average	

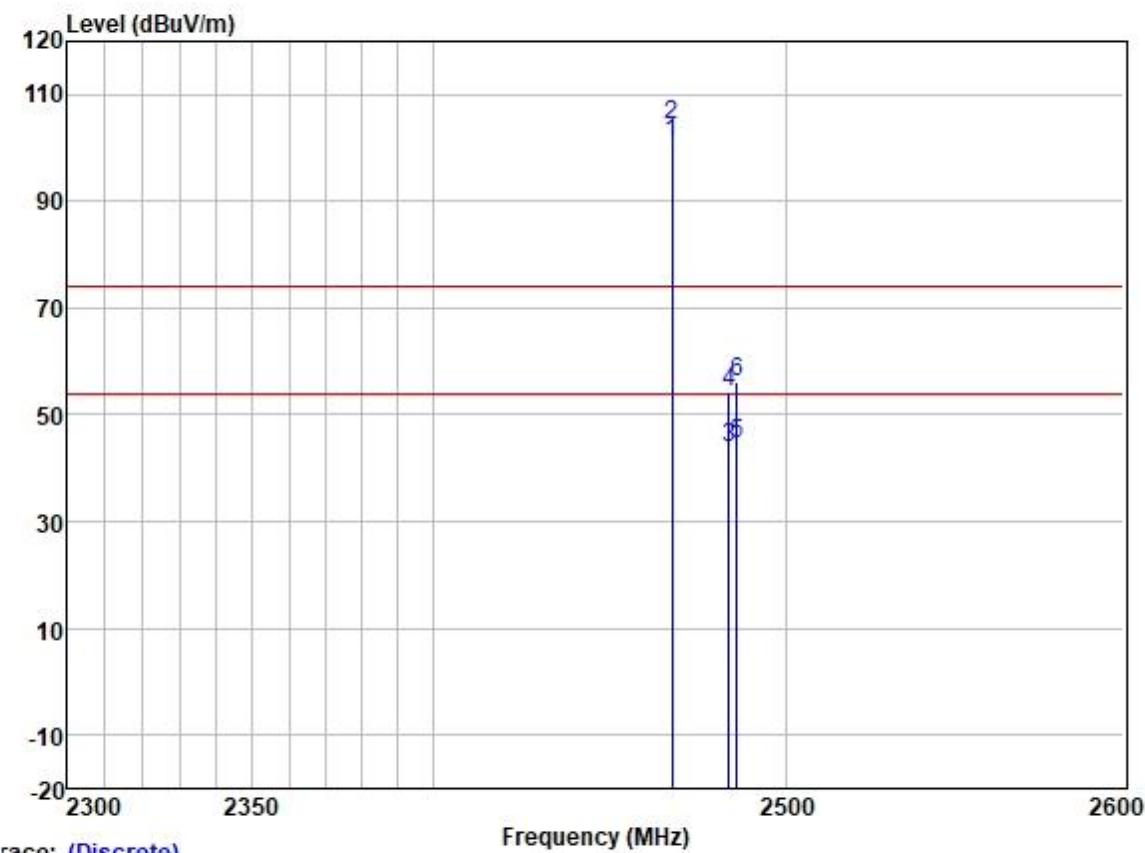
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:12



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2467.000	107.57	27.45	3.50	37.57	100.95	54.00	46.95	HORIZONTAL	Average
2 *	2467.000	110.84	27.45	3.50	37.57	104.22	74.00	30.22	HORIZONTAL	Peak
3	2483.500	50.29	27.48	3.53	37.57	43.73	54.00	-10.27	HORIZONTAL	Average
4	2483.500	60.80	27.48	3.53	37.57	54.24	74.00	-19.76	HORIZONTAL	Peak
5	2485.898	51.11	27.48	3.53	37.57	44.55	54.00	-9.45	HORIZONTAL	Average
6	2485.898	62.64	27.48	3.53	37.57	56.08	74.00	-17.92	HORIZONTAL	Peak

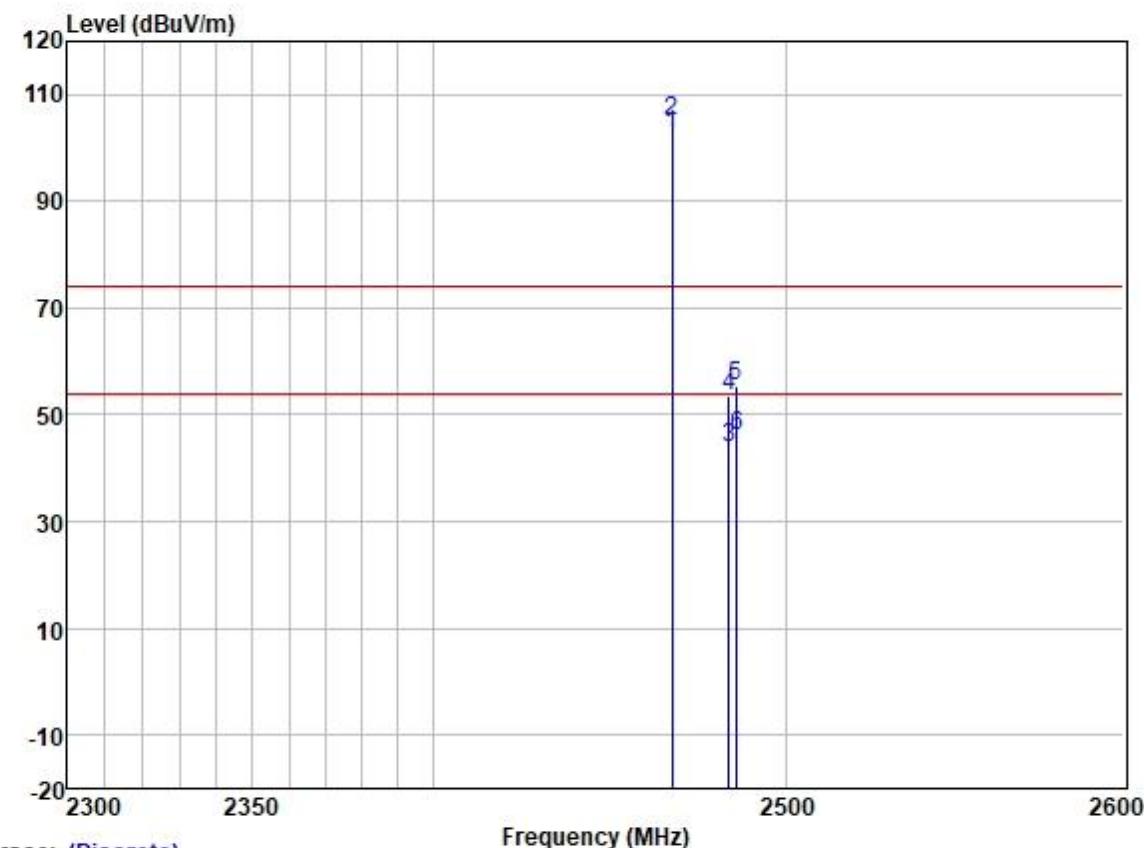
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Test Mode: 13; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:12



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2467.000	109.07	27.45	3.50	37.57	102.45	54.00	48.45	VERTICAL	Average
2 *	2467.000	111.68	27.45	3.50	37.57	105.06	74.00	31.06	VERTICAL	Peak
3	2483.500	50.49	27.48	3.53	37.57	43.93	54.00	-10.07	VERTICAL	Average
4	2483.500	60.07	27.48	3.53	37.57	53.51	74.00	-20.49	VERTICAL	Peak
5	2485.597	61.98	27.48	3.53	37.57	55.42	74.00	-18.58	VERTICAL	Peak
6	2485.647	52.52	27.48	3.53	37.57	45.96	54.00	-8.04	VERTICAL	Average

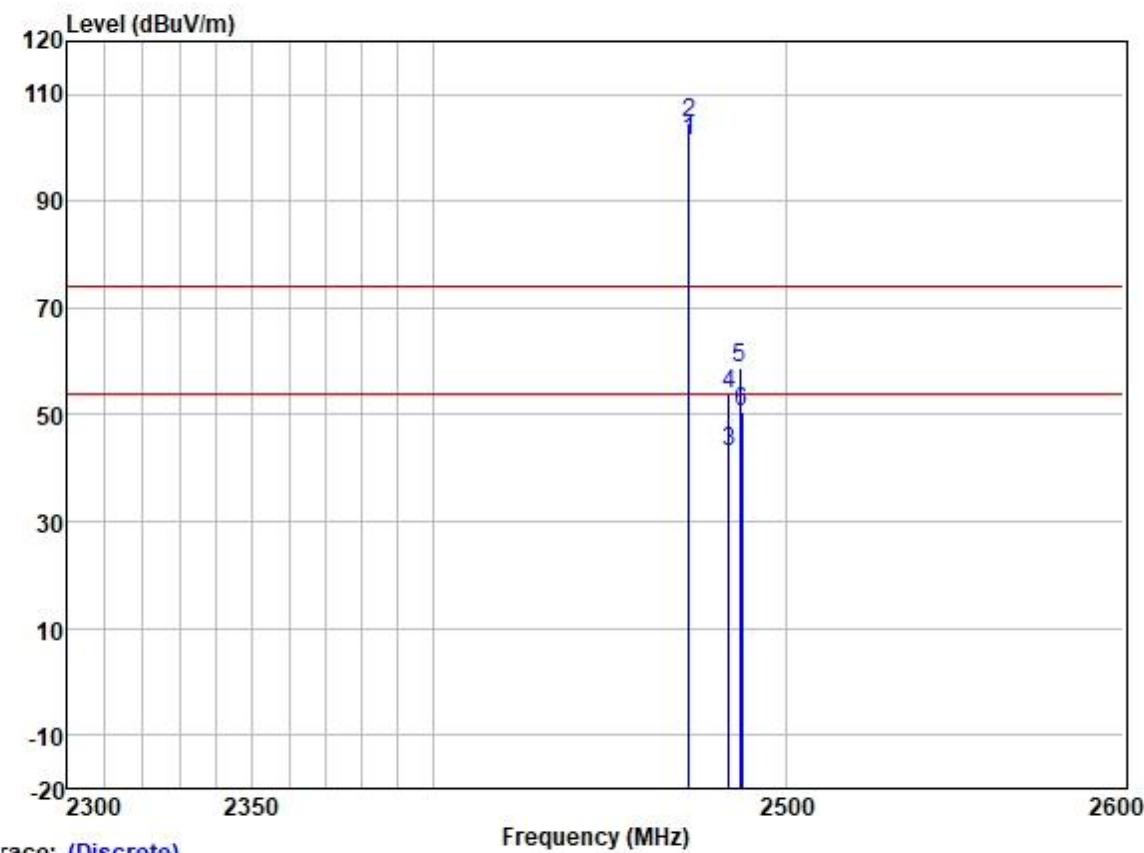
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:13



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1 * 2472.000	107.73	27.46	3.55	37.57	101.17	54.00	47.17	HORIZONTAL	Average	
2 * 2472.000	111.13	27.46	3.55	37.57	104.57	74.00	30.57	HORIZONTAL	Peak	
3 2483.500	49.57	27.48	3.53	37.57	43.01	54.00	-10.99	HORIZONTAL	Average	
4 2483.500	60.50	27.48	3.53	37.57	53.94	74.00	-20.06	HORIZONTAL	Peak	
5 2486.551	65.23	27.48	3.53	37.57	58.67	74.00	-15.33	HORIZONTAL	Peak	
6 2487.305	57.15	27.48	3.53	37.57	50.59	54.00	-3.41	HORIZONTAL	Average	

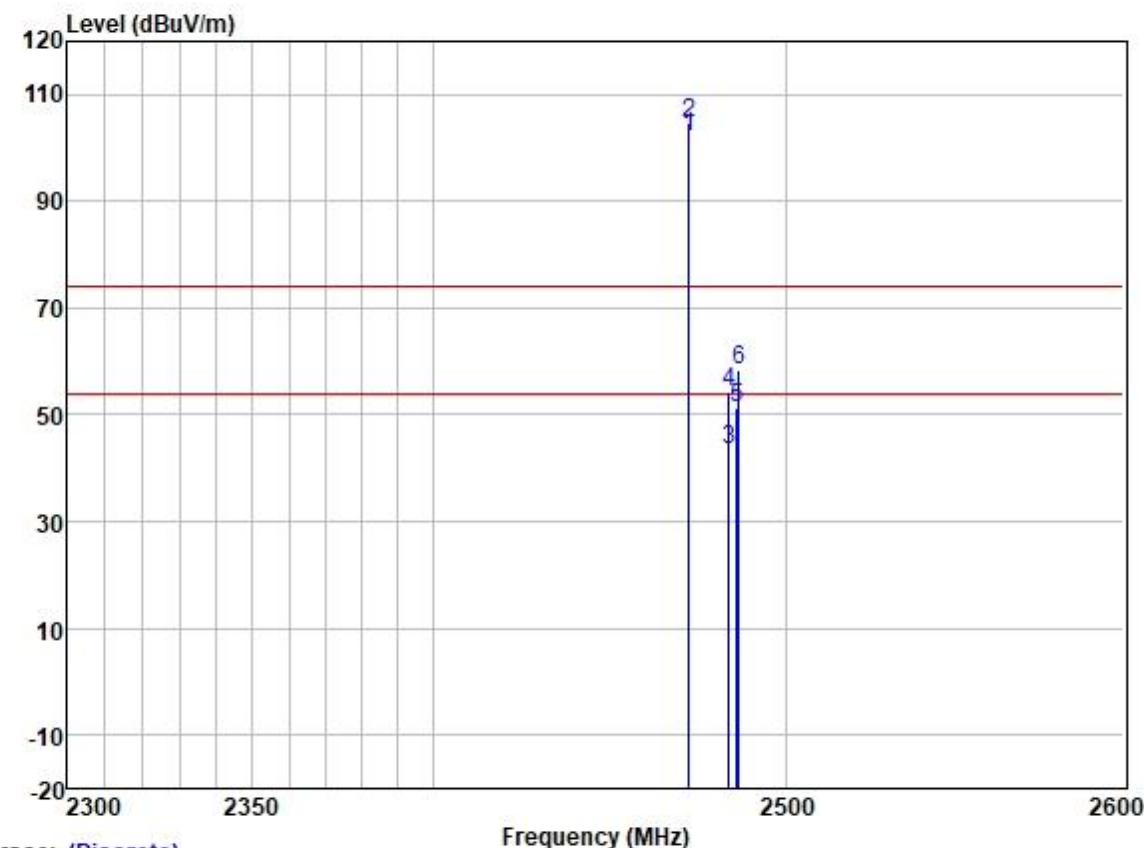
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Test Mode: 13; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:13



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2472.000	108.58	27.46	3.55	37.57	102.02	54.00	48.02	VERTICAL	Average
2 *	2472.000	111.37	27.46	3.55	37.57	104.81	74.00	30.81	VERTICAL	Peak
3	2483.500	50.16	27.48	3.53	37.57	43.60	54.00	-10.40	VERTICAL	Average
4	2483.500	60.74	27.48	3.53	37.57	54.18	74.00	-19.82	VERTICAL	Peak
5	2485.798	57.88	27.48	3.53	37.57	51.32	54.00	-2.68	VERTICAL	Average
6	2486.350	65.14	27.48	3.53	37.57	58.58	74.00	-15.42	VERTICAL	Peak

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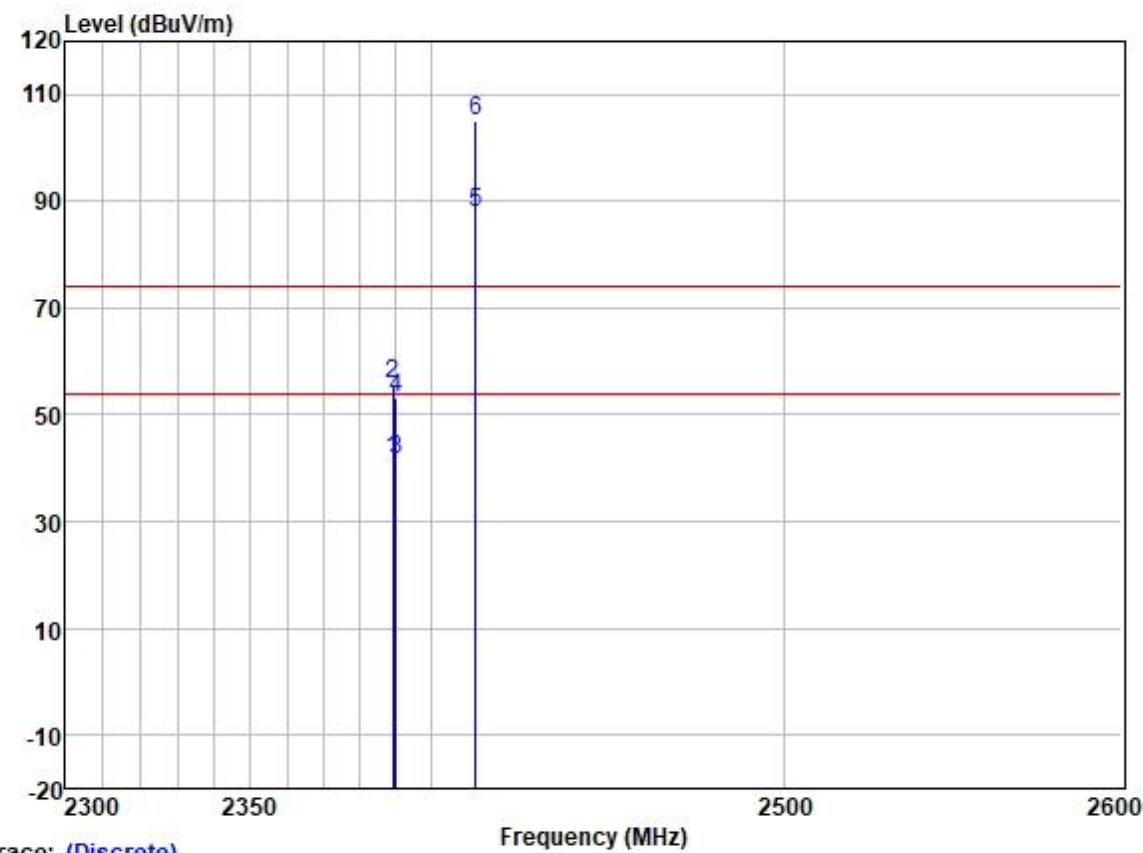
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



ReadAntenna Freq	Cable Loss Factor		Preamp Factor		Limit Level	Over Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB					
1	2389.000	48.43	27.33	3.48	37.59	41.65	54.00	-12.35	HORIZONTAL Average
2	2389.000	62.43	27.33	3.48	37.59	55.65	74.00	-18.35	HORIZONTAL Peak
3	2390.000	48.21	27.33	3.48	37.59	41.43	54.00	-12.57	HORIZONTAL Average
4	2390.000	59.98	27.33	3.48	37.59	53.20	74.00	-20.80	HORIZONTAL Peak
5 *	2412.000	94.59	27.38	3.47	37.59	87.85	54.00	33.85	HORIZONTAL Average
6 *	2412.000	111.76	27.38	3.47	37.59	105.02	74.00	31.02	HORIZONTAL Peak

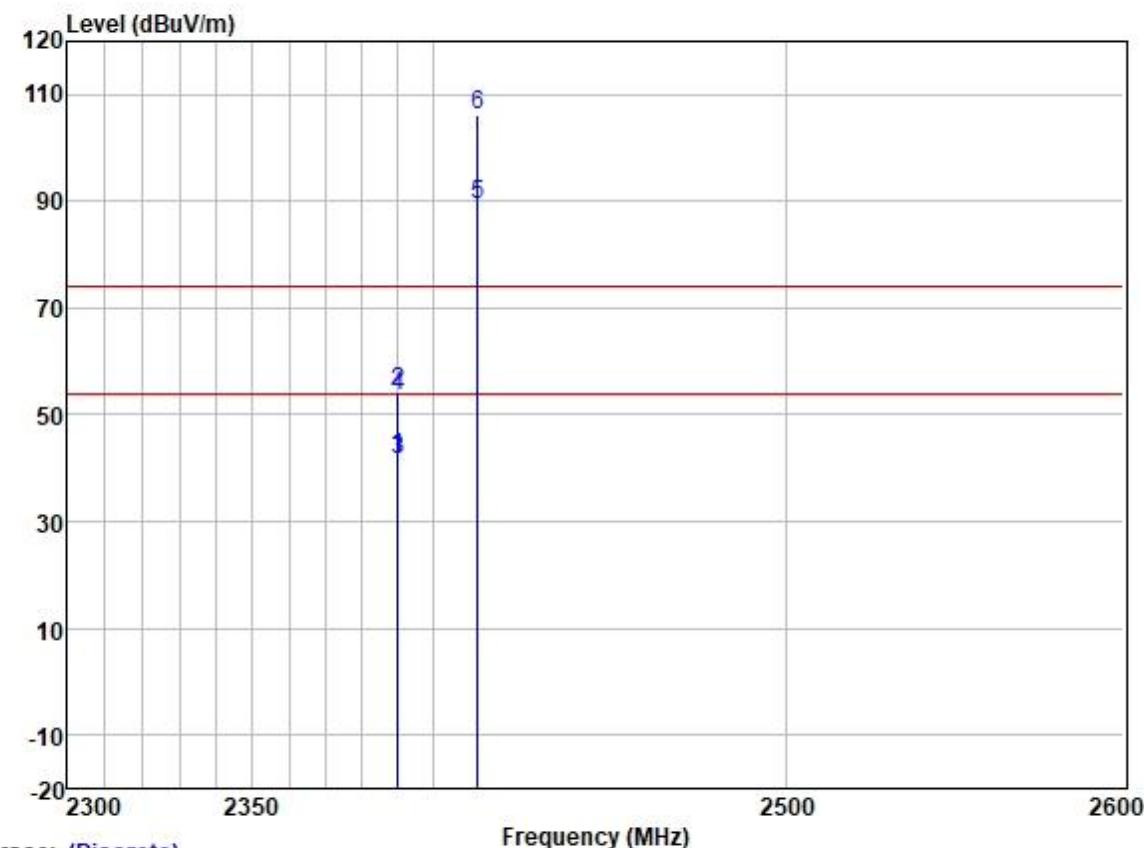
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Test Mode: 13; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Race: (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	2389.847	48.67	27.33	3.48	37.59	41.89	54.00	-12.11	VERTICAL	Average
2	2389.847	61.12	27.33	3.48	37.59	54.34	74.00	-19.66	VERTICAL	Peak
3	2390.000	48.56	27.33	3.48	37.59	41.78	54.00	-12.22	VERTICAL	Average
4	2390.000	60.16	27.33	3.48	37.59	53.38	74.00	-20.62	VERTICAL	Peak
5 *	2412.000	96.11	27.38	3.47	37.59	89.37	54.00	35.37	VERTICAL	Average
6 *	2412.000	113.00	27.38	3.47	37.59	106.26	74.00	32.26	VERTICAL	Peak

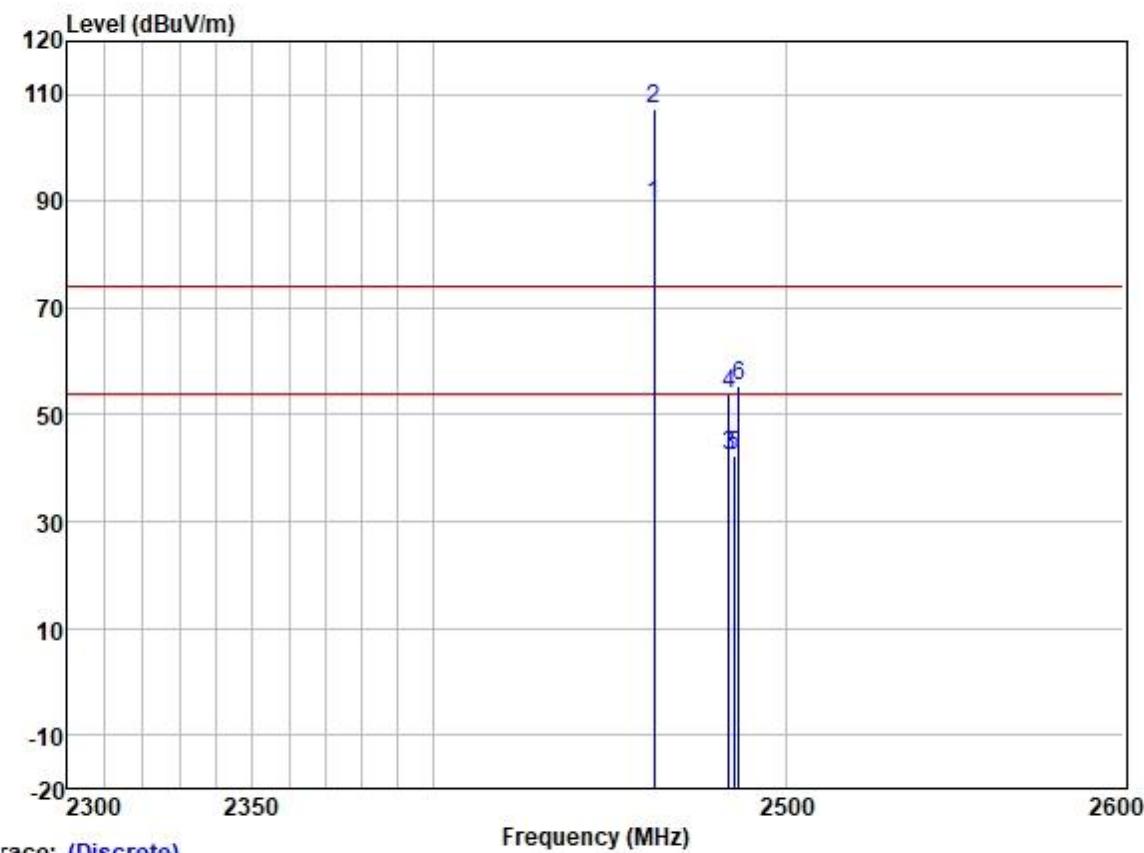
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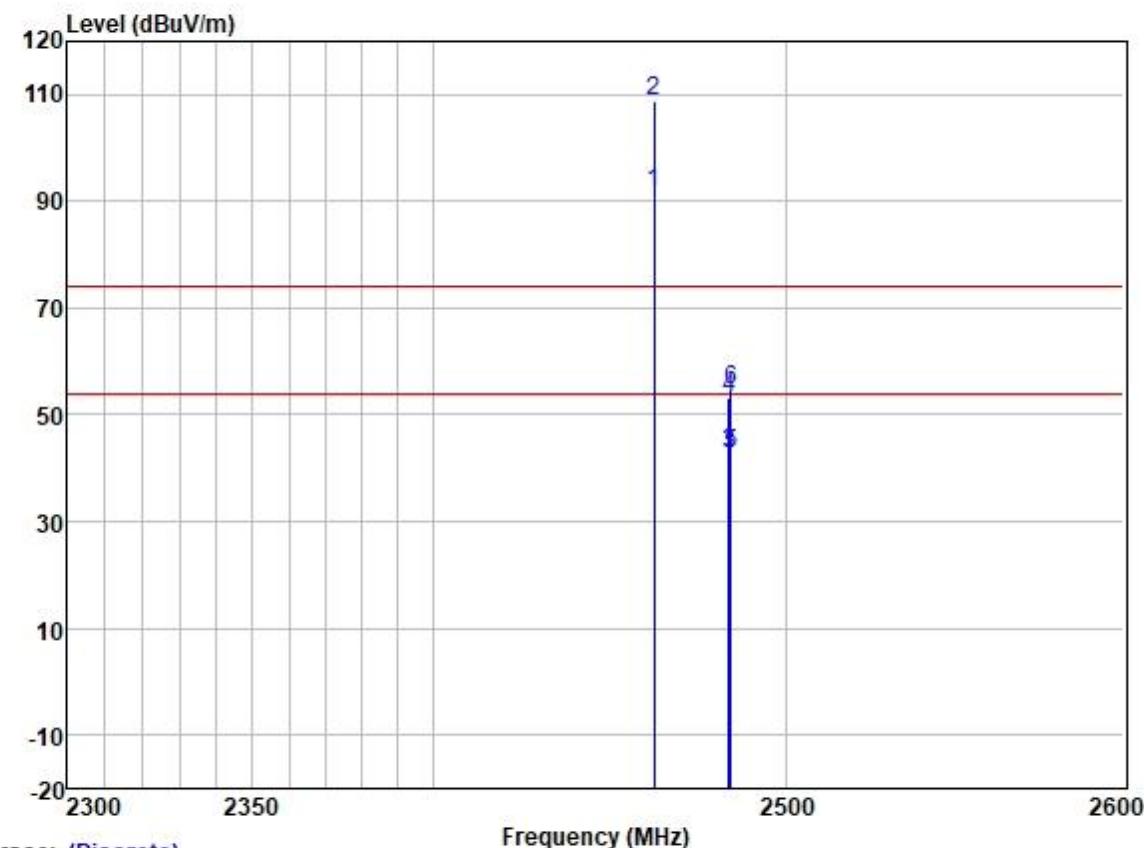
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Test Mode: 13; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1 * 2462.000	98.36	27.45	3.50	37.58	91.73	54.00	37.73	VERTICAL	Average	
2 * 2462.000	115.57	27.45	3.50	37.58	108.94	74.00	34.94	VERTICAL	Peak	
3 2483.500	49.30	27.48	3.53	37.57	42.74	54.00	-11.26	VERTICAL	Average	
4 2483.500	59.79	27.48	3.53	37.57	53.23	74.00	-20.77	VERTICAL	Peak	
5 2484.141	49.27	27.48	3.53	37.57	42.71	54.00	-11.29	VERTICAL	Average	
6 2484.141	61.31	27.48	3.53	37.57	54.75	74.00	-19.25	VERTICAL	Peak	

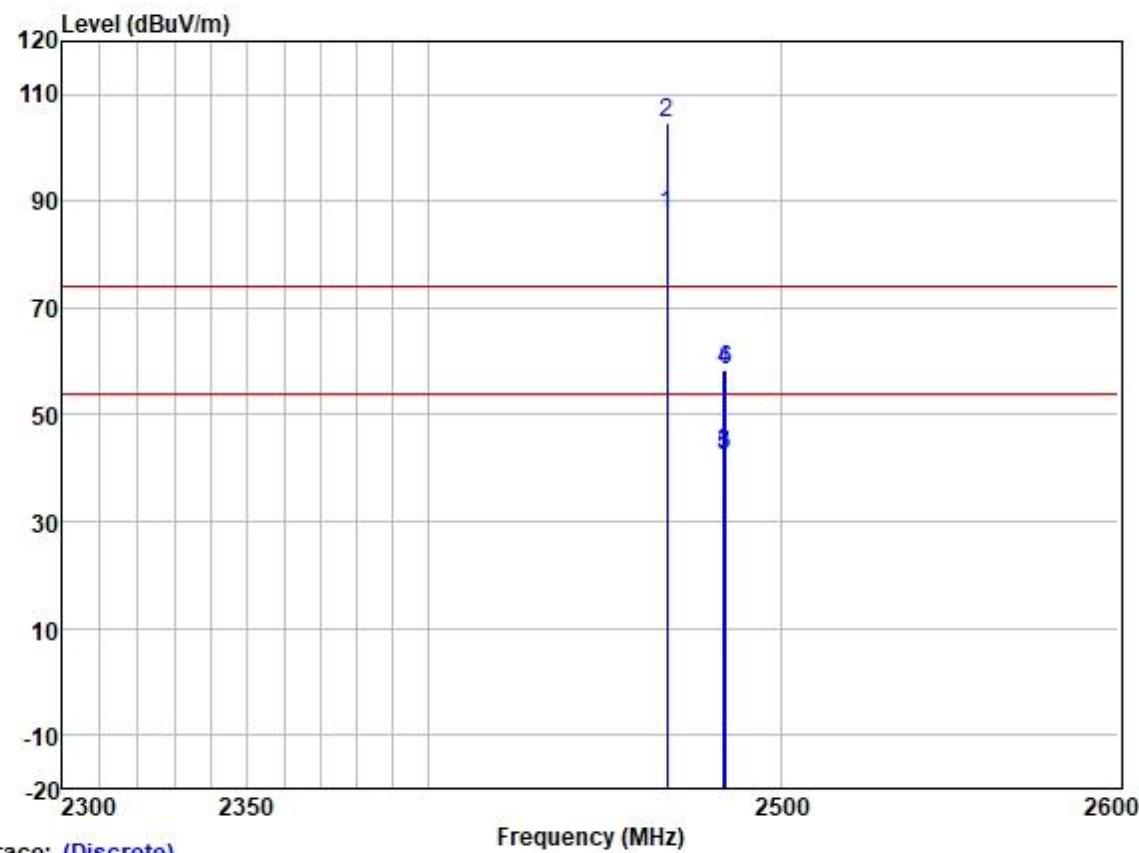
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:12



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2467.000	94.05	27.45	3.50	37.57	87.43	54.00	33.43	HORIZONTAL	Average
2 *	2467.000	111.25	27.45	3.50	37.57	104.63	74.00	30.63	HORIZONTAL	Peak
3	2483.500	49.46	27.48	3.53	37.57	42.90	54.00	-11.10	HORIZONTAL	Average
4	2483.500	64.78	27.48	3.53	37.57	58.22	74.00	-15.78	HORIZONTAL	Peak
5	2483.790	48.86	27.48	3.53	37.57	42.30	54.00	-11.70	HORIZONTAL	Average
6	2483.990	65.03	27.48	3.53	37.57	58.47	74.00	-15.53	HORIZONTAL	Peak

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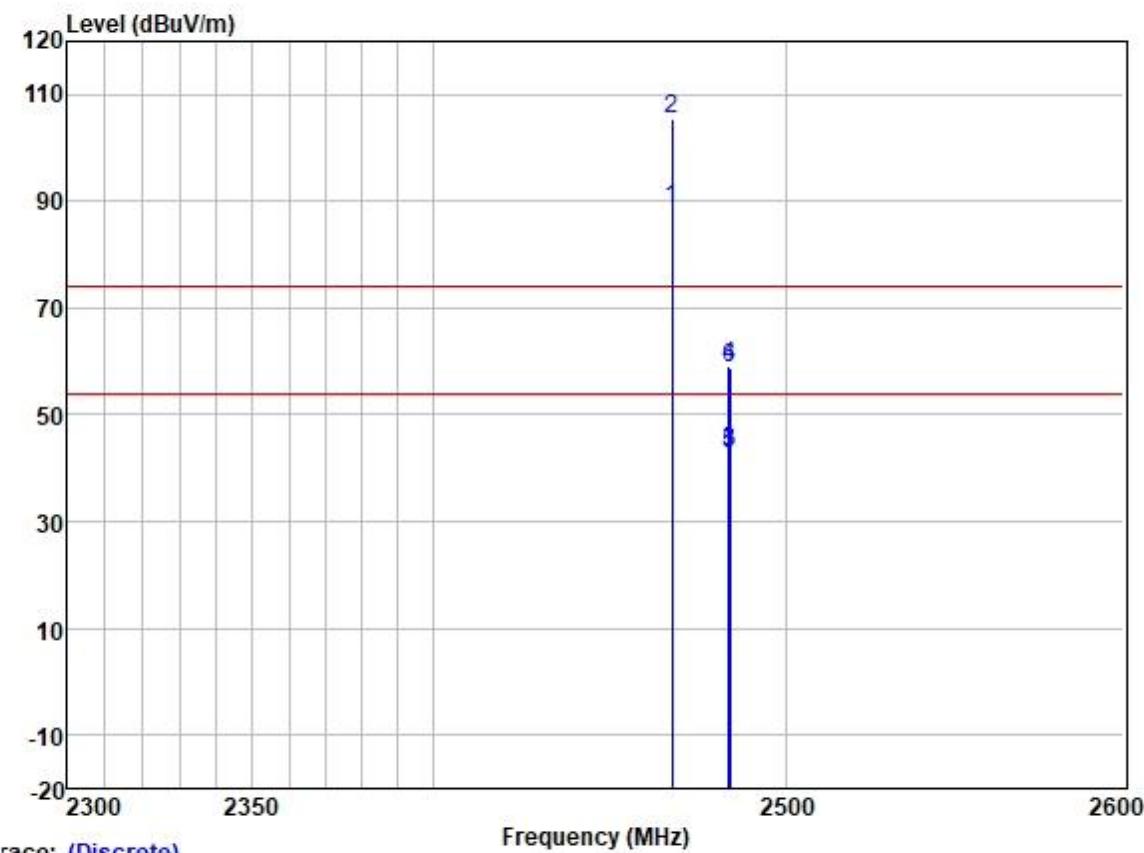
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Test Mode: 13; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:12



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1 * 2467.000	95.12	27.45	3.50	37.57	88.50	54.00	34.50	VERTICAL	Average	
2 * 2467.000	111.92	27.45	3.50	37.57	105.30	74.00	31.30	VERTICAL	Peak	
3 2483.500	49.74	27.48	3.53	37.57	43.18	54.00	-10.82	VERTICAL	Average	
4 2483.500	65.69	27.48	3.53	37.57	59.13	74.00	-14.87	VERTICAL	Peak	
5 2483.790	49.44	27.48	3.53	37.57	42.88	54.00	-11.12	VERTICAL	Average	
6 2483.790	65.46	27.48	3.53	37.57	58.90	74.00	-15.10	VERTICAL	Peak	

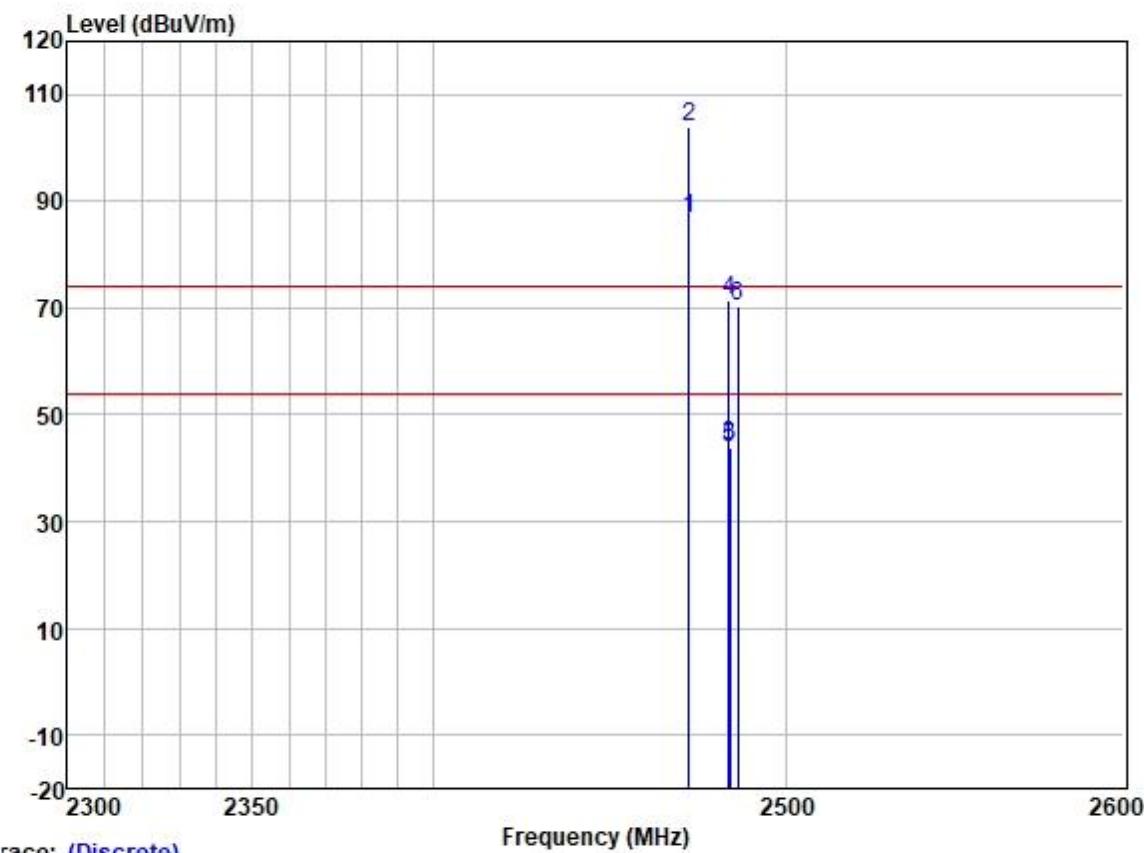
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:13



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2472.000	93.34	27.46	3.55	37.57	86.78	54.00	32.78	HORIZONTAL	Average
2 *	2472.000	110.52	27.46	3.55	37.57	103.96	74.00	29.96	HORIZONTAL	Peak
3	2483.500	50.94	27.48	3.53	37.57	44.38	54.00	-9.62	HORIZONTAL	Average
4	2483.500	78.13	27.48	3.53	37.57	71.57	74.00	-2.43	HORIZONTAL	Peak
5	2483.840	50.49	27.48	3.53	37.57	43.93	54.00	-10.07	HORIZONTAL	Average
6	2486.049	76.77	27.48	3.53	37.57	70.21	74.00	-3.79	HORIZONTAL	Peak

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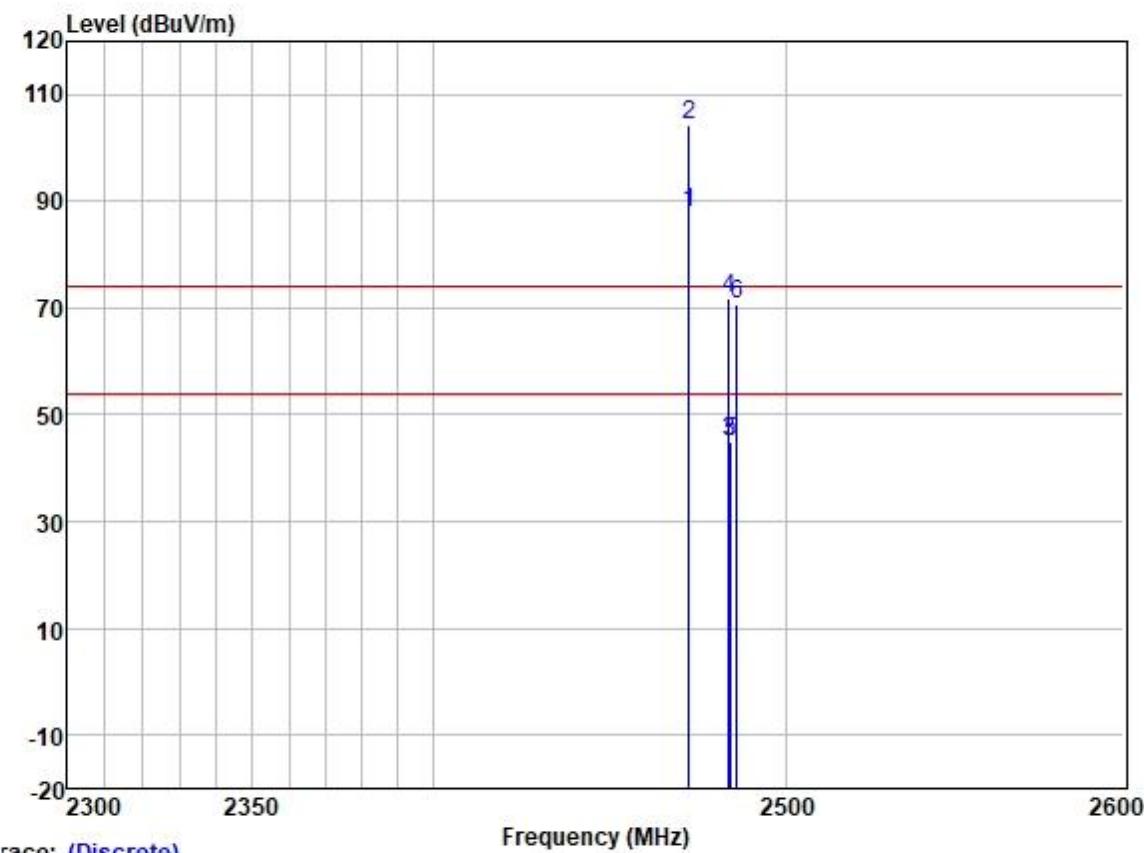
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Test Mode: 13; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:13



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 *	2472.000	94.33	27.46	3.55	37.57	87.77	54.00	33.77	VERTICAL	Average	
2 *	2472.000	110.85	27.46	3.55	37.57	104.29	74.00	30.29	VERTICAL	Peak	
3	2483.500	51.70	27.48	3.53	37.57	45.14	54.00	-8.86	VERTICAL	Average	
4	2483.500	78.48	27.48	3.53	37.57	71.92	74.00	-2.08	VERTICAL	Peak	
5	2483.940	51.43	27.48	3.53	37.57	44.87	54.00	-9.13	VERTICAL	Average	
6	2485.747	77.42	27.48	3.53	37.57	70.86	74.00	-3.14	VERTICAL	Peak	

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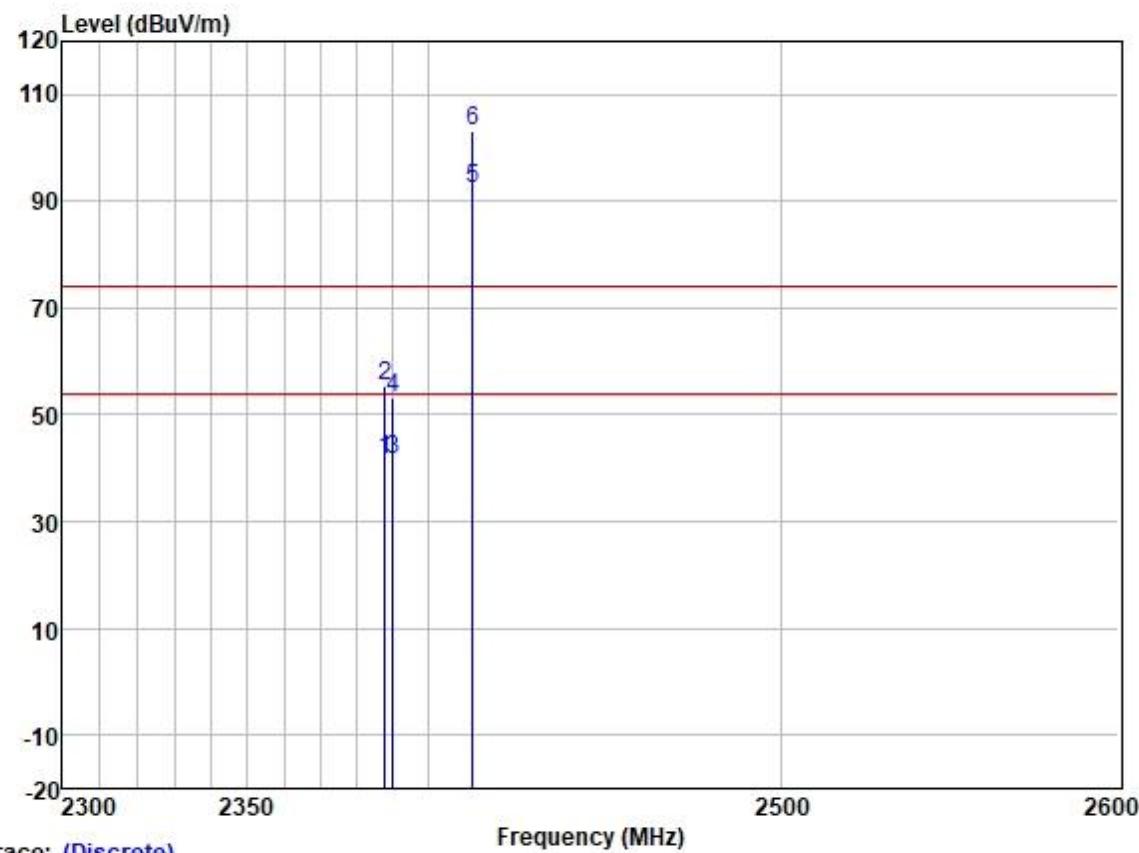
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1	2387.791	48.34	27.33	3.48	37.59	41.56	54.00	-12.44	HORIZONTAL	Average
2	2387.791	62.08	27.33	3.48	37.59	55.30	74.00	-18.70	HORIZONTAL	Peak
3	2390.000	48.24	27.33	3.48	37.59	41.46	54.00	-12.54	HORIZONTAL	Average
4	2390.000	60.10	27.33	3.48	37.59	53.32	74.00	-20.68	HORIZONTAL	Peak
5 *	2412.000	99.08	27.38	3.47	37.59	92.34	54.00	38.34	HORIZONTAL	Average
6 *	2412.000	110.11	27.38	3.47	37.59	103.37	74.00	29.37	HORIZONTAL	Peak

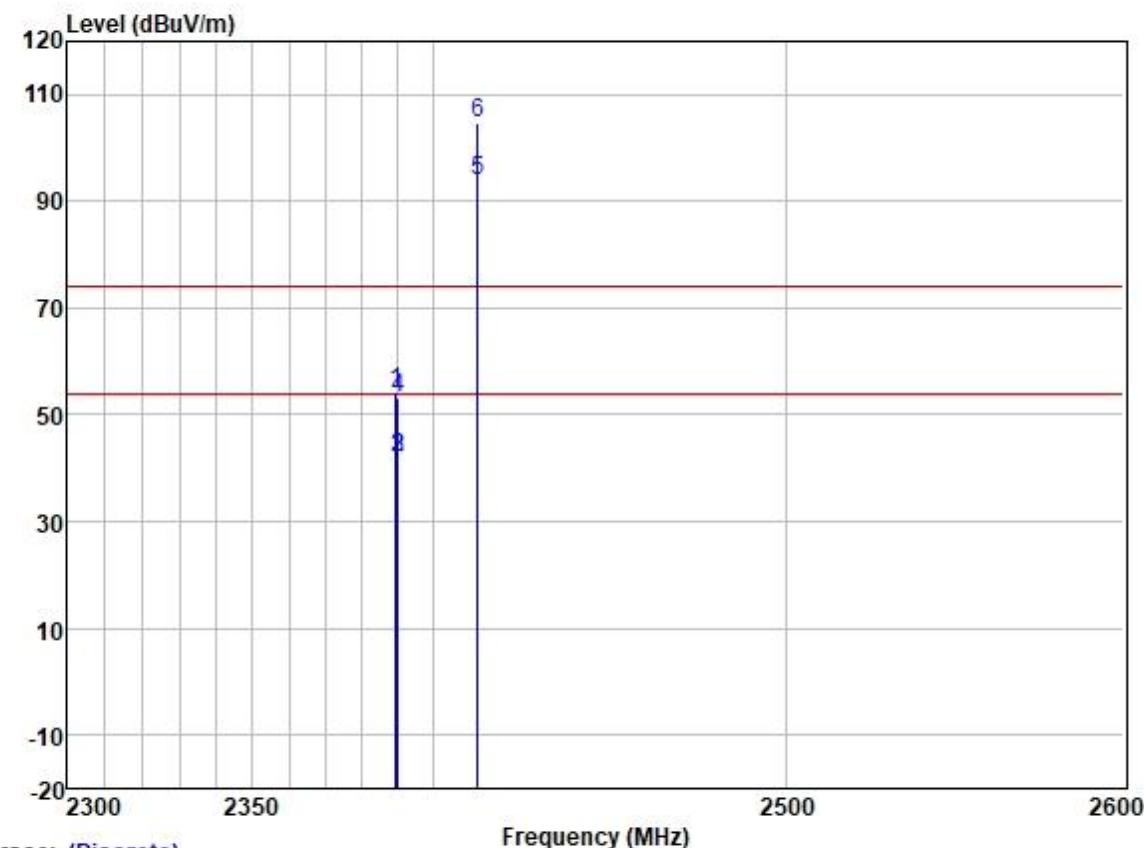
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Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (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	2389.363	61.19	27.33	3.48	37.59	54.41	74.00	-19.59	VERTICAL	Peak
2	2389.968	48.74	27.33	3.48	37.59	41.96	54.00	-12.04	VERTICAL	Average
3	2390.000	48.74	27.33	3.48	37.59	41.96	54.00	-12.04	VERTICAL	Average
4	2390.000	59.86	27.33	3.48	37.59	53.08	74.00	-20.92	VERTICAL	Peak
5 *	2412.000	100.55	27.38	3.47	37.59	93.81	54.00	39.81	VERTICAL	Average
6 *	2412.000	111.45	27.38	3.47	37.59	104.71	74.00	30.71	VERTICAL	Peak

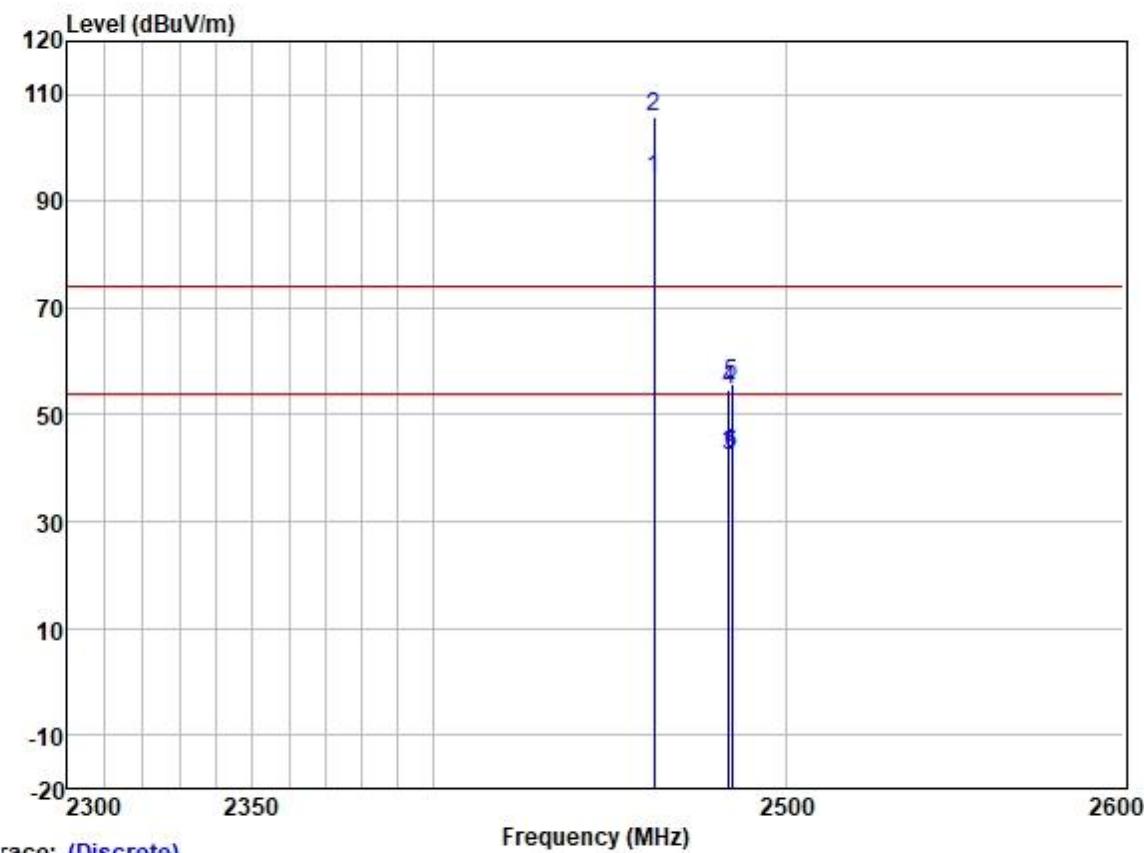
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2462.000	100.72	27.45	3.50	37.58	94.09	54.00	40.09	HORIZONTAL	Average
2 *	2462.000	112.48	27.45	3.50	37.58	105.85	74.00	31.85	HORIZONTAL	Peak
3	2483.500	49.09	27.48	3.53	37.57	42.53	54.00	-11.47	HORIZONTAL	Average
4	2483.500	61.28	27.48	3.53	37.57	54.72	74.00	-19.28	HORIZONTAL	Peak
5	2484.241	62.34	27.48	3.53	37.57	55.78	74.00	-18.22	HORIZONTAL	Peak
6	2484.342	49.25	27.48	3.53	37.57	42.69	54.00	-11.31	HORIZONTAL	Average

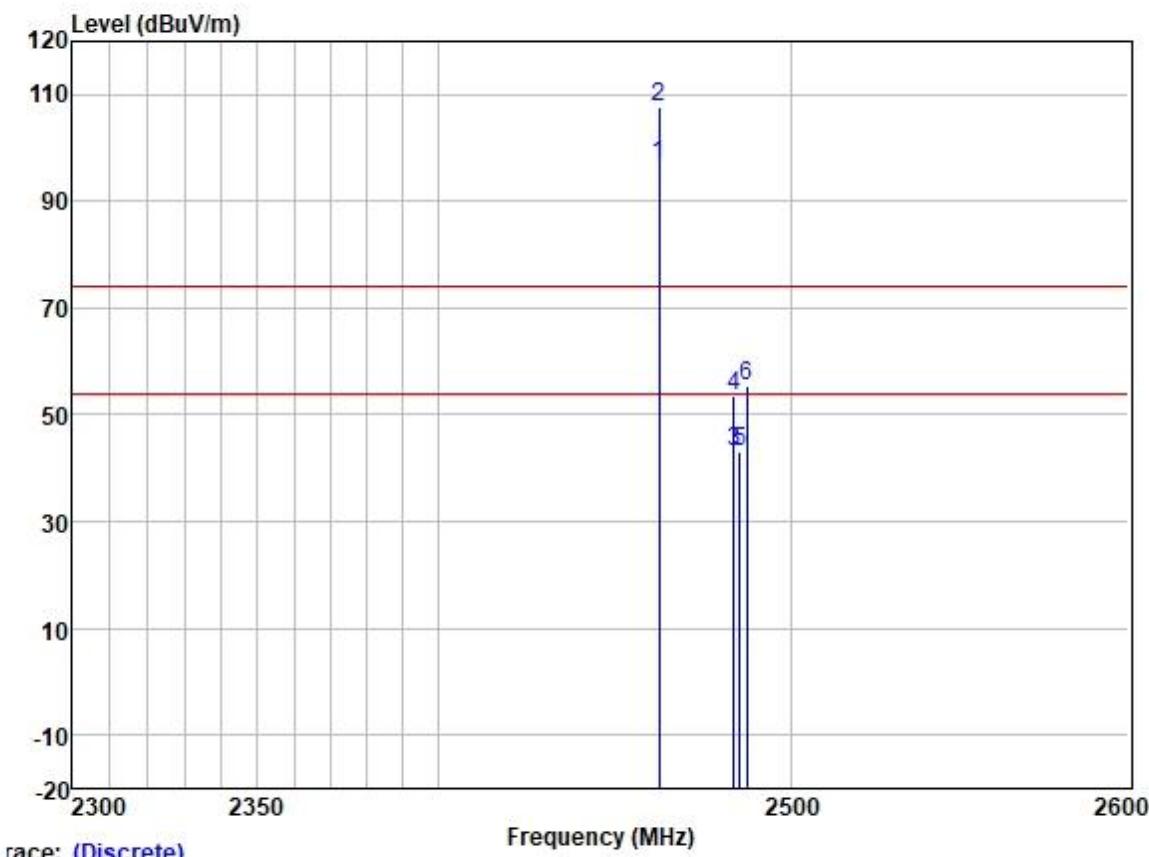
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Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2462.000	103.34	27.45	3.50	37.58	96.71	54.00	42.71	VERTICAL	Average
2 *	2462.000	114.45	27.45	3.50	37.58	107.82	74.00	33.82	VERTICAL	Peak
3	2483.500	49.49	27.48	3.53	37.57	42.93	54.00	-11.07	VERTICAL	Average
4	2483.500	60.05	27.48	3.53	37.57	53.49	74.00	-20.51	VERTICAL	Peak
5	2485.295	49.57	27.48	3.53	37.57	43.01	54.00	-10.99	VERTICAL	Average
6	2487.254	61.86	27.48	3.53	37.57	55.30	74.00	-18.70	VERTICAL	Peak

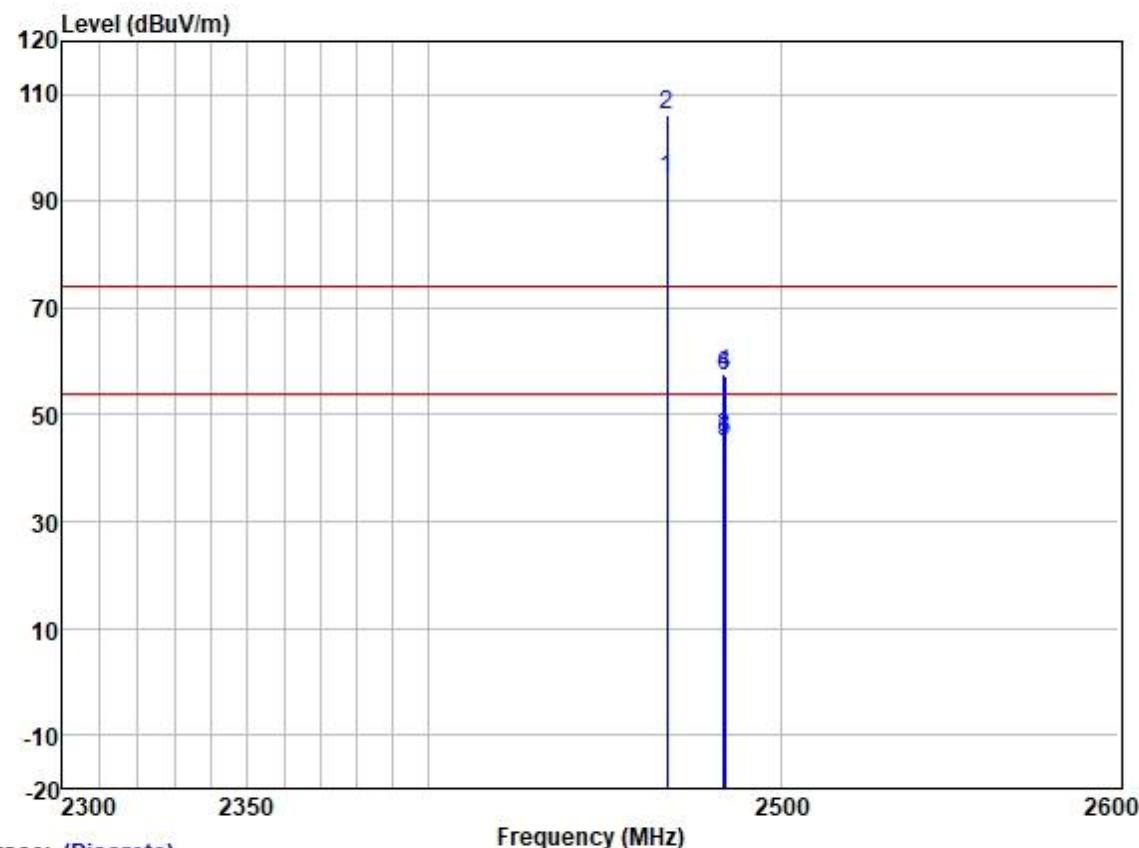
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:12



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1 *	2467.000	100.93	27.45	3.50	37.57	94.31	54.00	40.31	HORIZONTAL	Average
2 *	2467.000	112.94	27.45	3.50	37.57	106.32	74.00	32.32	HORIZONTAL	Peak
3	2483.500	52.14	27.48	3.53	37.57	45.58	54.00	-8.42	HORIZONTAL	Average
4	2483.500	64.23	27.48	3.53	37.57	57.67	74.00	-16.33	HORIZONTAL	Peak
5	2483.790	51.37	27.48	3.53	37.57	44.81	54.00	-9.19	HORIZONTAL	Average
6	2483.890	63.78	27.48	3.53	37.57	57.22	74.00	-16.78	HORIZONTAL	Peak

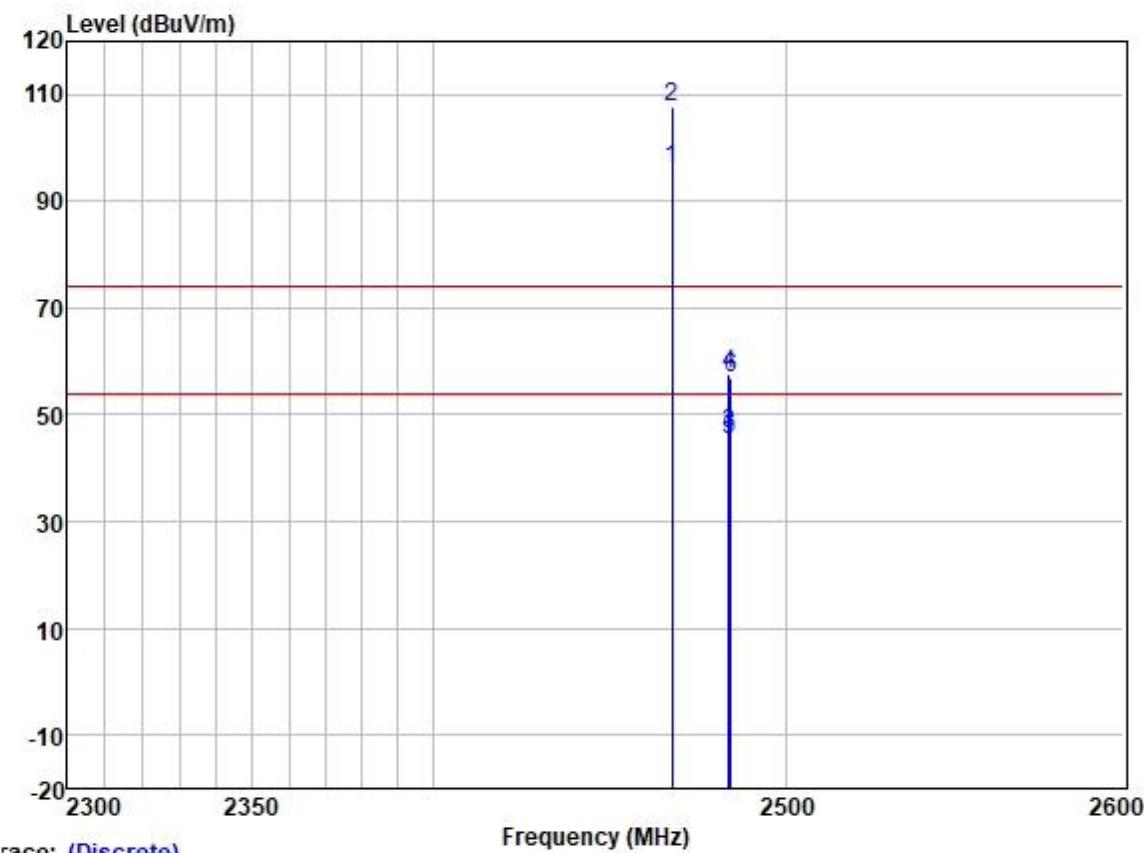
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Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:12



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2467.000	102.60	27.45	3.50	37.57	95.98	54.00	41.98	VERTICAL	Average
2 *	2467.000	114.33	27.45	3.50	37.57	107.71	74.00	33.71	VERTICAL	Peak
3	2483.500	52.94	27.48	3.53	37.57	46.38	54.00	-7.62	VERTICAL	Average
4	2483.500	64.05	27.48	3.53	37.57	57.49	74.00	-16.51	VERTICAL	Peak
5	2483.790	51.74	27.48	3.53	37.57	45.18	54.00	-8.82	VERTICAL	Average
6	2483.990	63.48	27.48	3.53	37.57	56.92	74.00	-17.08	VERTICAL	Peak

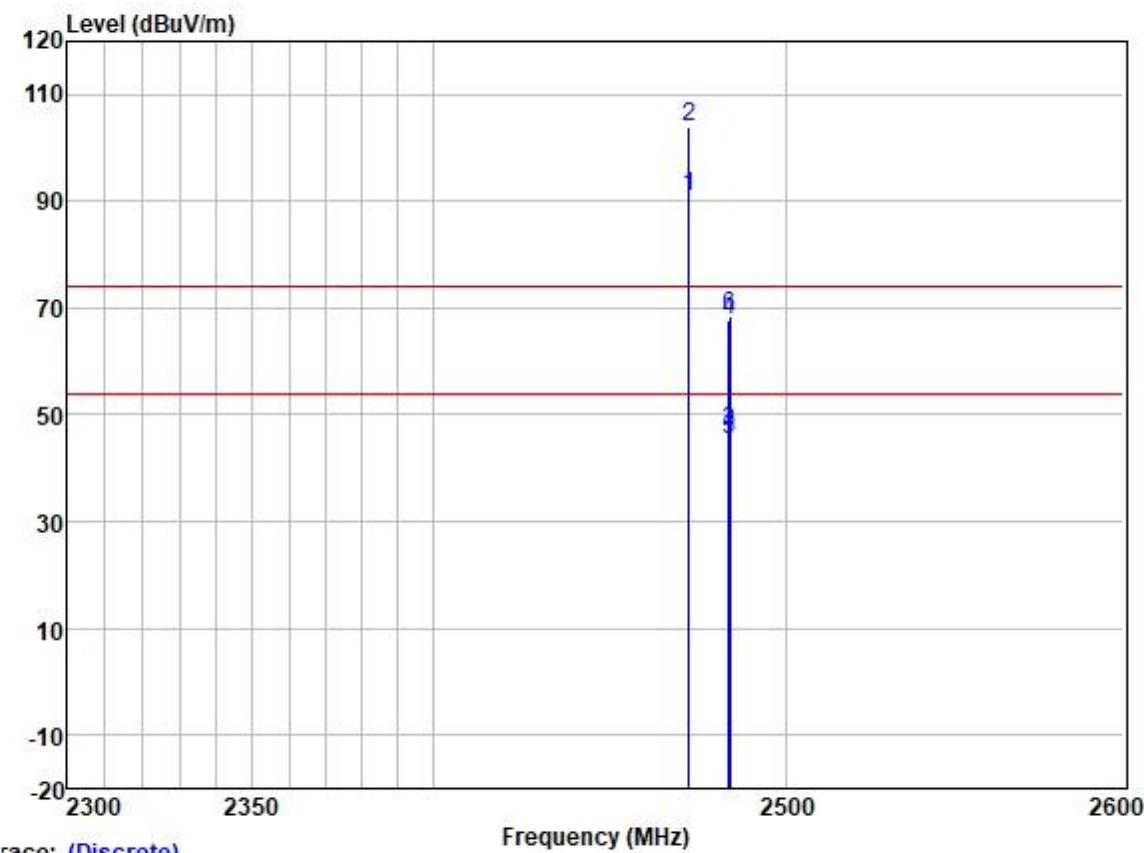
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:13

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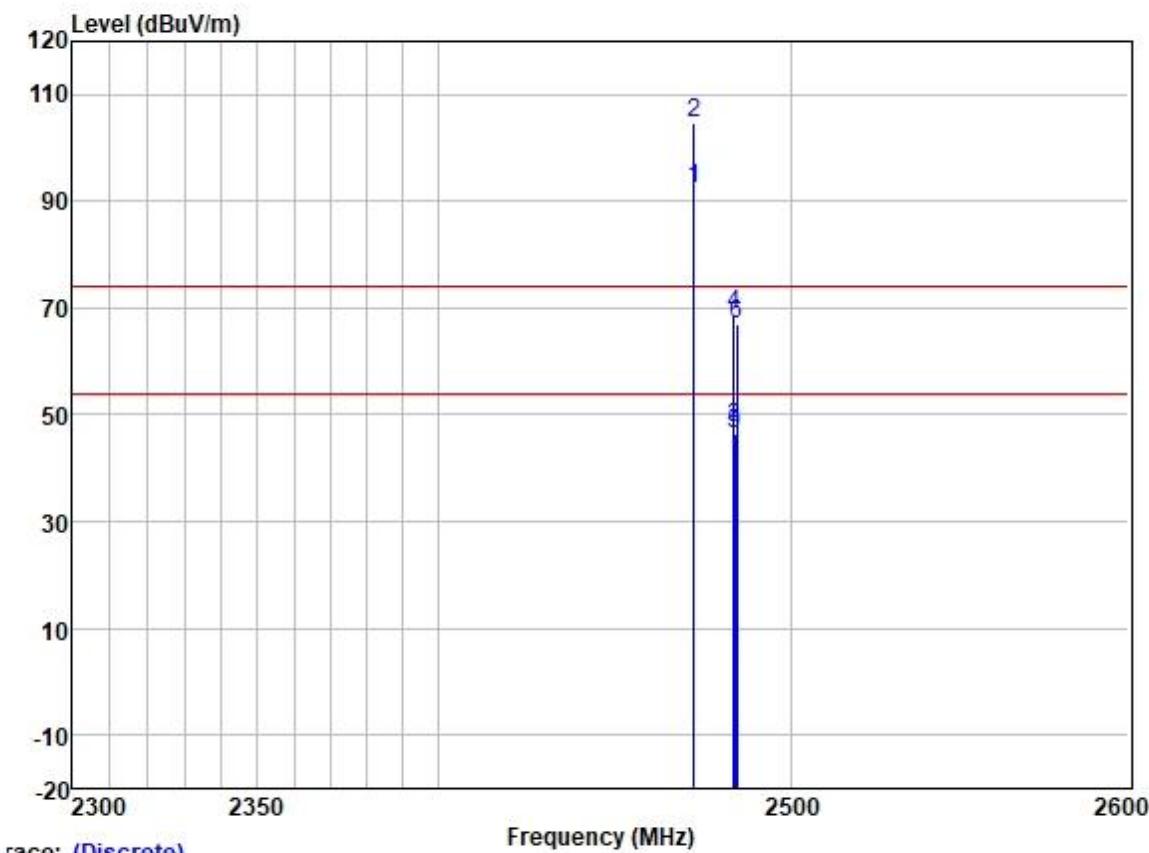
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Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:13



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2472.000	98.86	27.46	3.55	37.57	92.30	54.00	38.30	VERTICAL	Average
2 *	2472.000	111.17	27.46	3.55	37.57	104.61	74.00	30.61	VERTICAL	Peak
3	2483.500	54.04	27.48	3.53	37.57	47.48	54.00	-6.52	VERTICAL	Average
4	2483.500	75.39	27.48	3.53	37.57	68.83	74.00	-5.17	VERTICAL	Peak
5	2483.790	52.88	27.48	3.53	37.57	46.32	54.00	-7.68	VERTICAL	Average
6	2484.442	73.64	27.48	3.53	37.57	67.08	74.00	-6.92	VERTICAL	Peak

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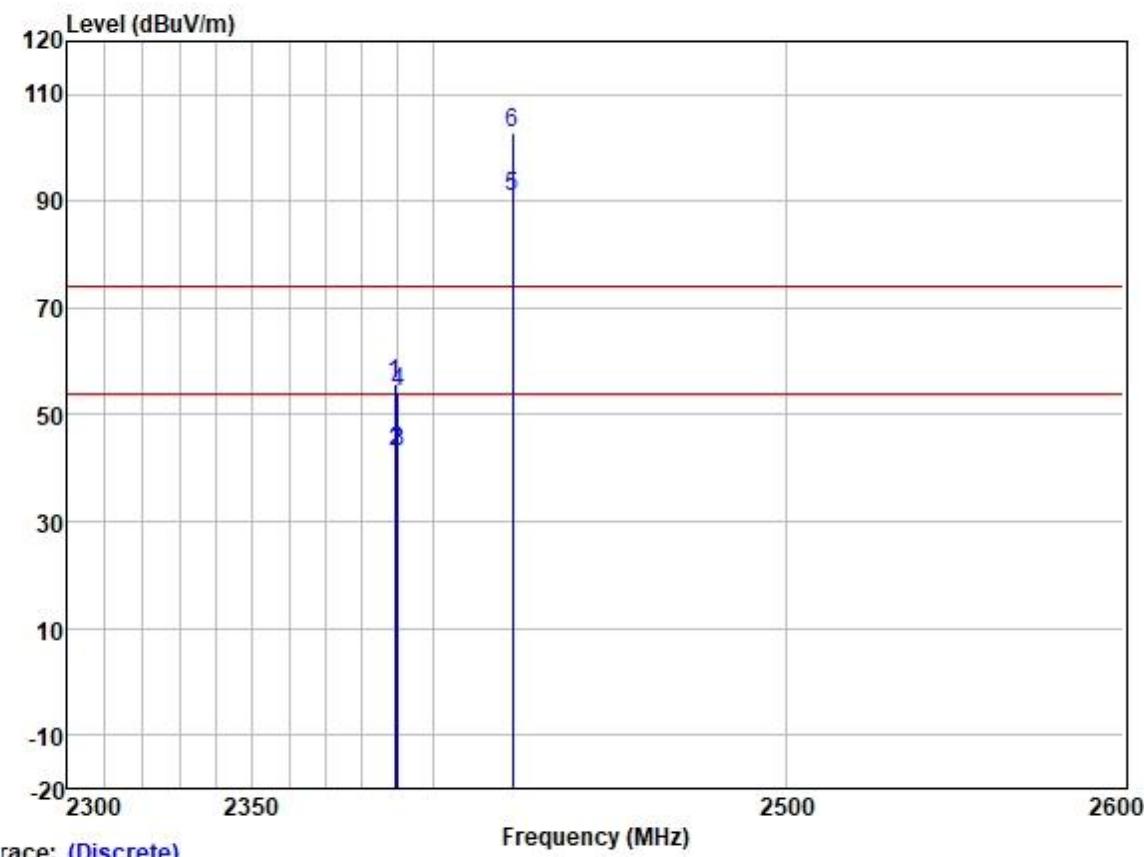


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Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss					
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2389.075	62.42	27.33	3.48	37.59	55.64	74.00	-18.36	HORIZONTAL Peak
2	2389.526	49.96	27.33	3.48	37.59	43.18	54.00	-10.82	HORIZONTAL Average
3	2390.000	49.73	27.33	3.48	37.59	42.95	54.00	-11.05	HORIZONTAL Average
4	2390.000	61.14	27.33	3.48	37.59	54.36	74.00	-19.64	HORIZONTAL Peak
5 *	2422.000	97.61	27.39	3.45	37.58	90.87	54.00	36.87	HORIZONTAL Average
6 *	2422.000	109.58	27.39	3.45	37.58	102.84	74.00	28.84	HORIZONTAL Peak

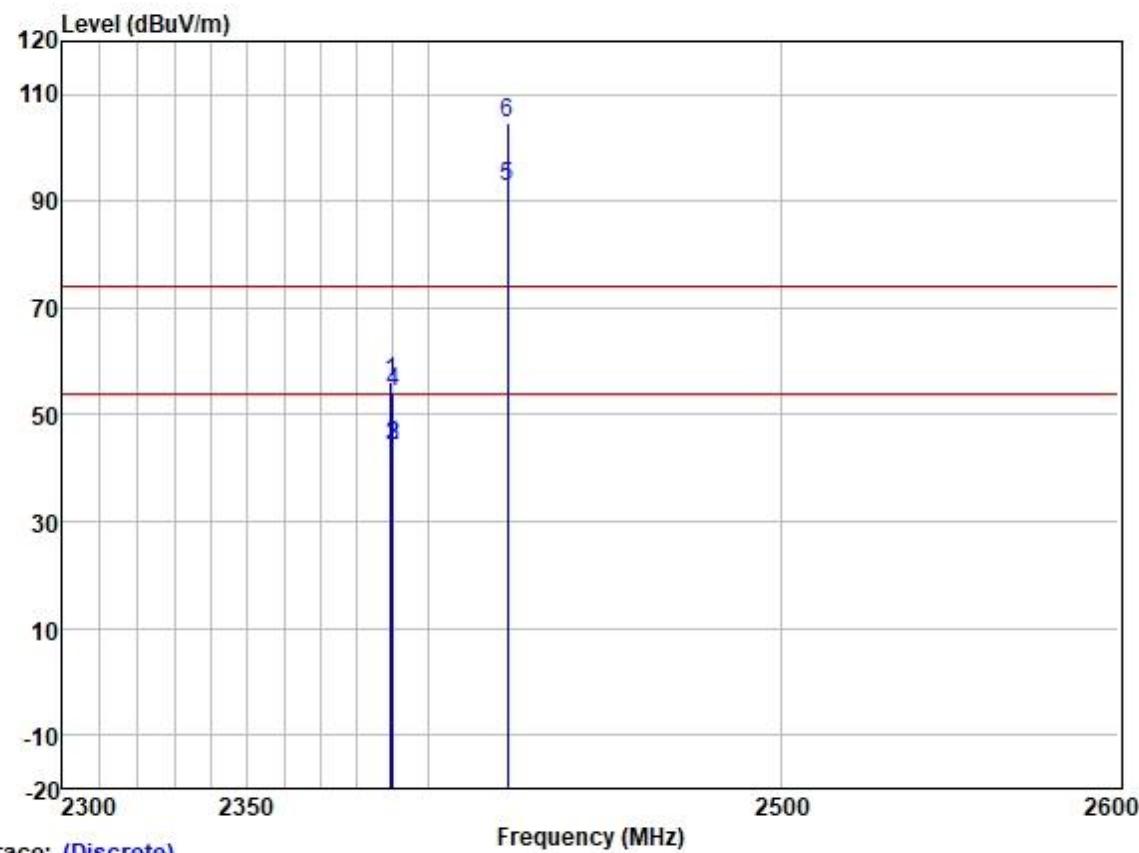
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Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1	2389.376	62.96	27.33	3.48	37.59	56.18	74.00	-17.82	VERTICAL	Peak
2	2389.827	50.97	27.33	3.48	37.59	44.19	54.00	-9.81	VERTICAL	Average
3	2390.000	51.07	27.33	3.48	37.59	44.29	54.00	-9.71	VERTICAL	Average
4	2390.000	61.18	27.33	3.48	37.59	54.40	74.00	-19.60	VERTICAL	Peak
5 *	2422.000	99.54	27.39	3.45	37.58	92.80	54.00	38.80	VERTICAL	Average
6 *	2422.000	111.50	27.39	3.45	37.58	104.76	74.00	30.76	VERTICAL	Peak

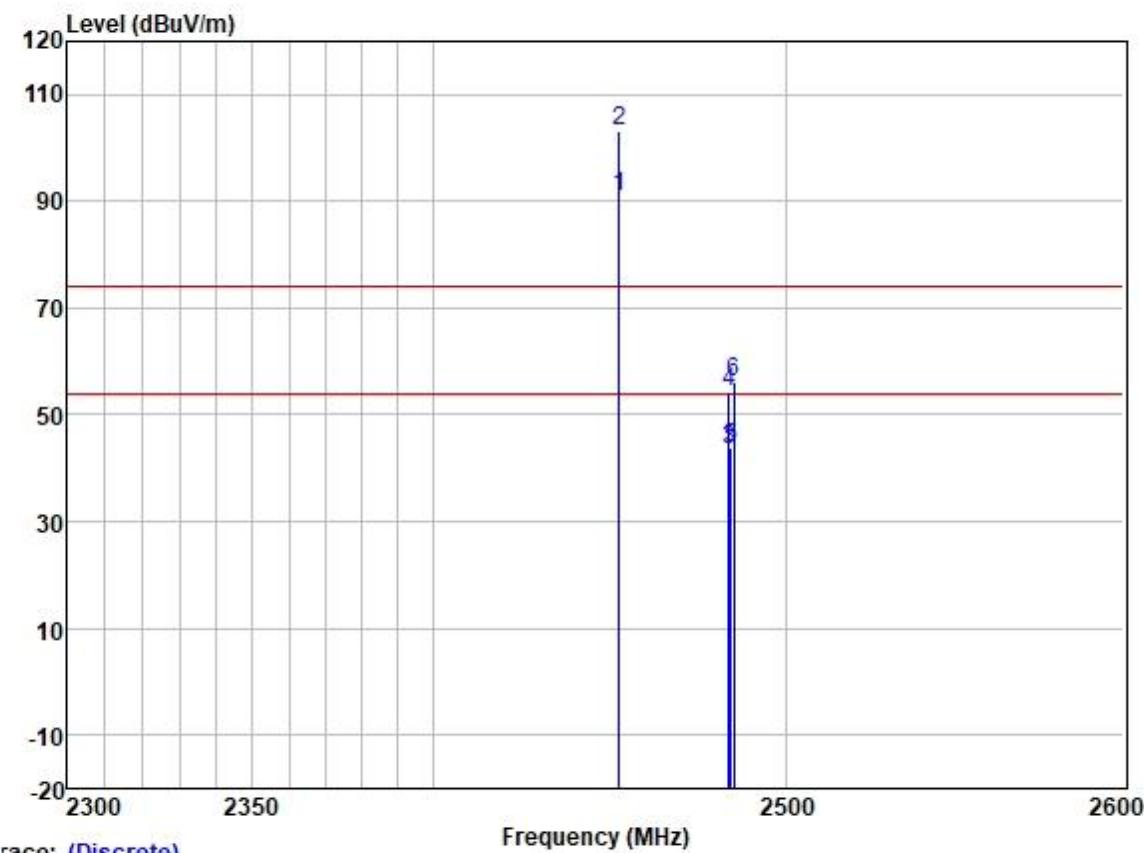
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:9



Race: (Discrete)

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 *	2452.000	97.80	27.43	3.40	37.58	91.05	54.00	37.05	HORIZONTAL Average
2 *	2452.000	109.96	27.43	3.40	37.58	103.21	74.00	29.21	HORIZONTAL Peak
3	2483.500	49.95	27.48	3.53	37.57	43.39	54.00	-10.61	HORIZONTAL Average
4	2483.500	60.80	27.48	3.53	37.57	54.24	74.00	-19.76	HORIZONTAL Peak
5	2484.076	50.25	27.48	3.53	37.57	43.69	54.00	-10.31	HORIZONTAL Average
6	2484.993	62.83	27.48	3.53	37.57	56.27	74.00	-17.73	HORIZONTAL Peak

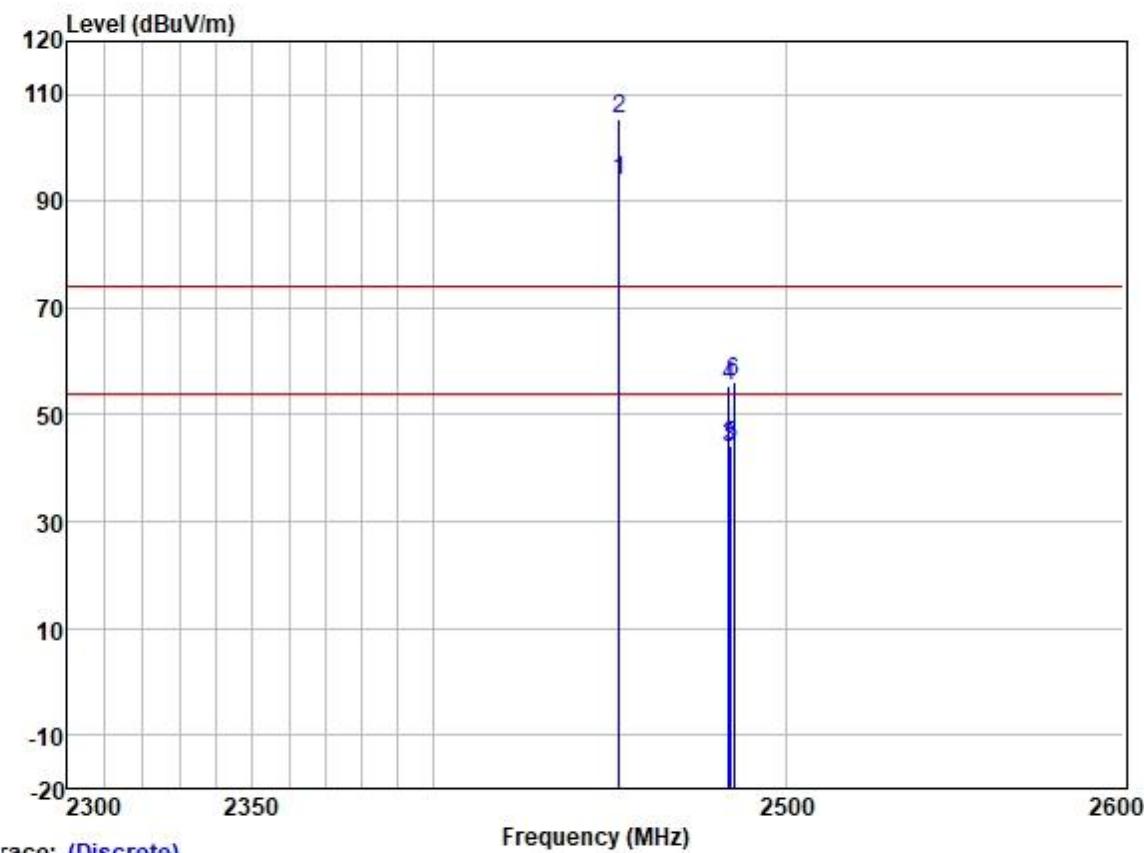
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Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:9



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2452.000	100.54	27.43	3.40	37.58	93.79	54.00	39.79	VERTICAL	Average
2 *	2452.000	112.33	27.43	3.40	37.58	105.58	74.00	31.58	VERTICAL	Peak
3	2483.500	50.43	27.48	3.53	37.57	43.87	54.00	-10.13	VERTICAL	Average
4	2483.500	62.11	27.48	3.53	37.57	55.55	74.00	-18.45	VERTICAL	Peak
5	2483.935	50.72	27.48	3.53	37.57	44.16	54.00	-9.84	VERTICAL	Average
6	2484.852	62.74	27.48	3.53	37.57	56.18	74.00	-17.82	VERTICAL	Peak

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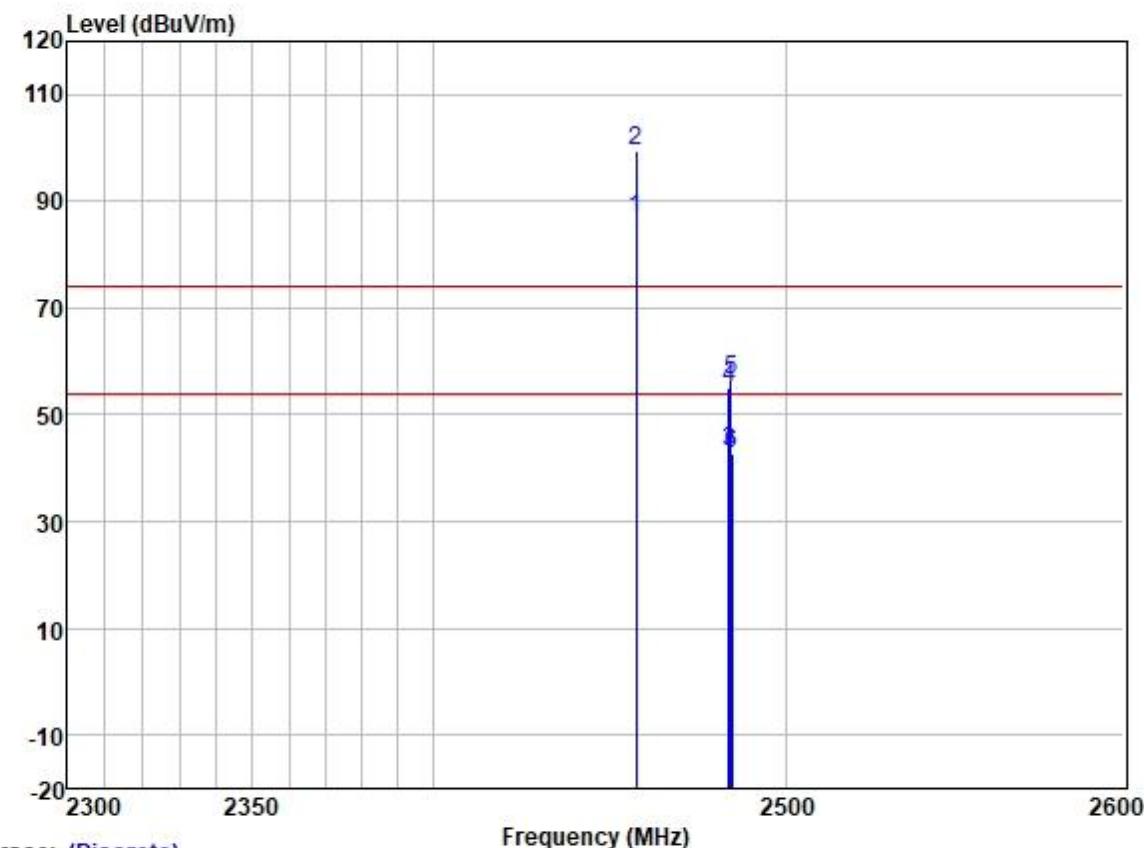


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Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:10



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 * 2457.000	93.32	27.44	3.45	37.58	86.63	54.00	54.00	32.63	HORIZONTAL	Average
2 * 2457.000	106.14	27.44	3.45	37.58	99.45	74.00	74.00	25.45	HORIZONTAL	Peak
3 2483.500	49.68	27.48	3.53	37.57	43.12	54.00	54.00	-10.88	HORIZONTAL	Average
4 2483.500	61.69	27.48	3.53	37.57	55.13	74.00	74.00	-18.87	HORIZONTAL	Peak
5 2483.935	63.03	27.48	3.53	37.57	56.47	74.00	74.00	-17.53	HORIZONTAL	Peak
6 2484.358	49.46	27.48	3.53	37.57	42.90	54.00	54.00	-11.10	HORIZONTAL	Average

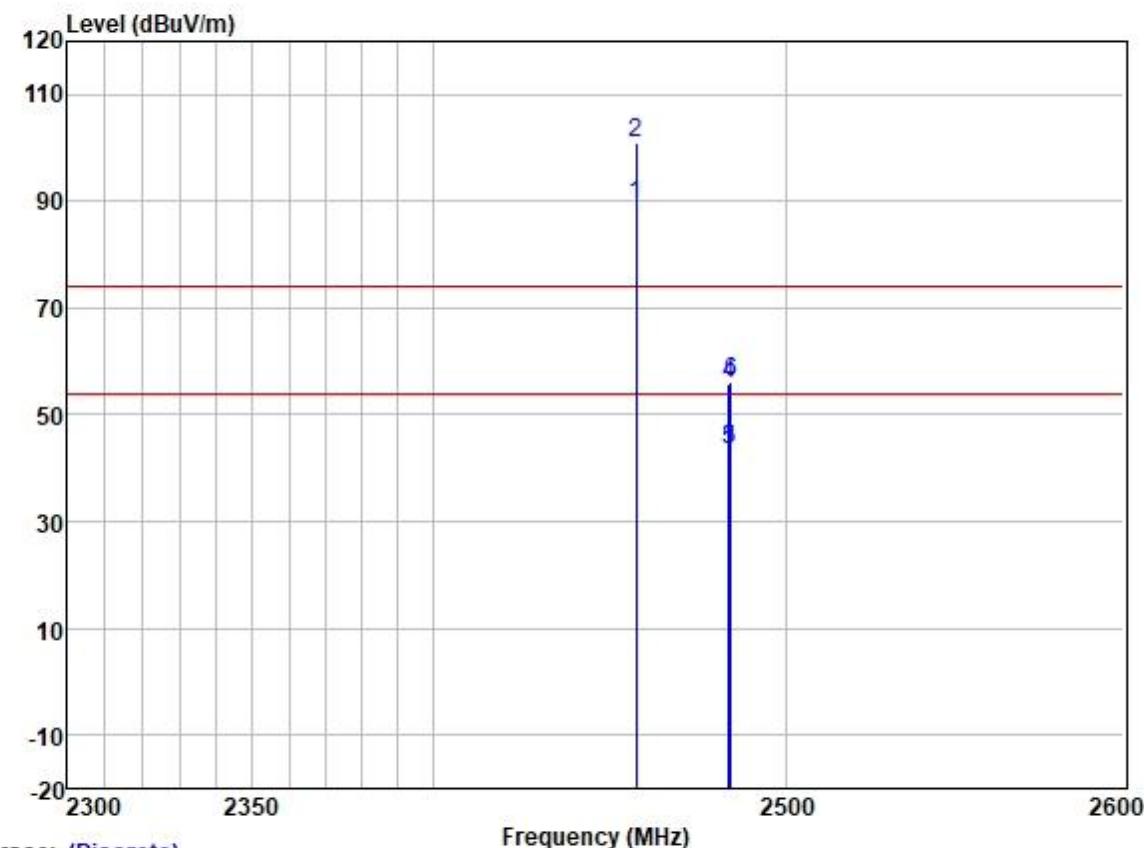
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Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:10



Race: (Discrete)

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 * 2457.000	96.11	27.44	3.45	37.58	89.42	54.00	35.42	VERTICAL	Average
2 * 2457.000	107.60	27.44	3.45	37.58	100.91	74.00	26.91	VERTICAL	Peak
3 2483.500	50.13	27.48	3.53	37.57	43.57	54.00	-10.43	VERTICAL	Average
4 2483.500	62.52	27.48	3.53	37.57	55.96	74.00	-18.04	VERTICAL	Peak
5 2483.865	50.07	27.48	3.53	37.57	43.51	54.00	-10.49	VERTICAL	Average
6 2484.006	62.61	27.48	3.53	37.57	56.05	74.00	-17.95	VERTICAL	Peak

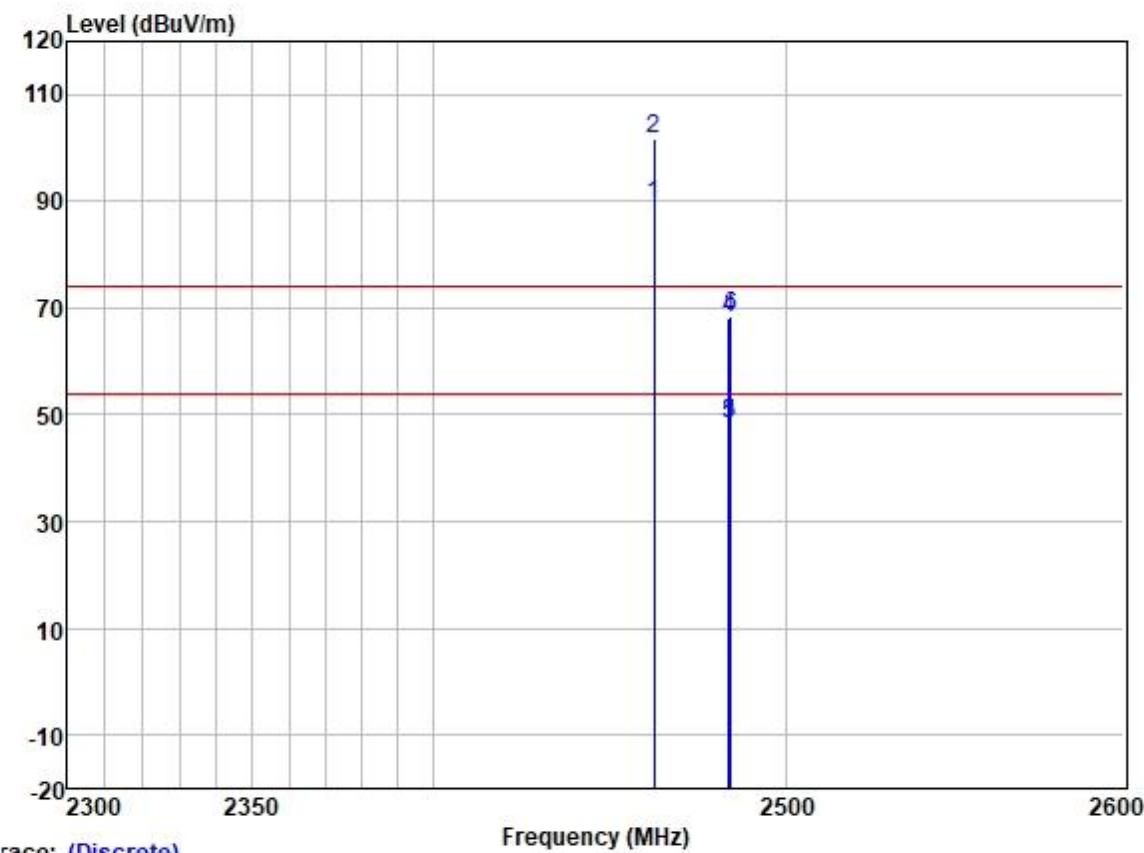
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:11



Race: (Discrete)

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 *	2462.000	96.09	27.45	3.50	37.58	89.46	54.00	35.46	HORIZONTAL Average
2 *	2462.000	108.44	27.45	3.50	37.58	101.81	74.00	27.81	HORIZONTAL Peak
3	2483.500	54.93	27.48	3.53	37.57	48.37	54.00	-5.63	HORIZONTAL Average
4	2483.500	74.76	27.48	3.53	37.57	68.20	74.00	-5.80	HORIZONTAL Peak
5	2483.865	54.72	27.48	3.53	37.57	48.16	54.00	-5.84	HORIZONTAL Average
6	2484.006	75.22	27.48	3.53	37.57	68.66	74.00	-5.34	HORIZONTAL Peak

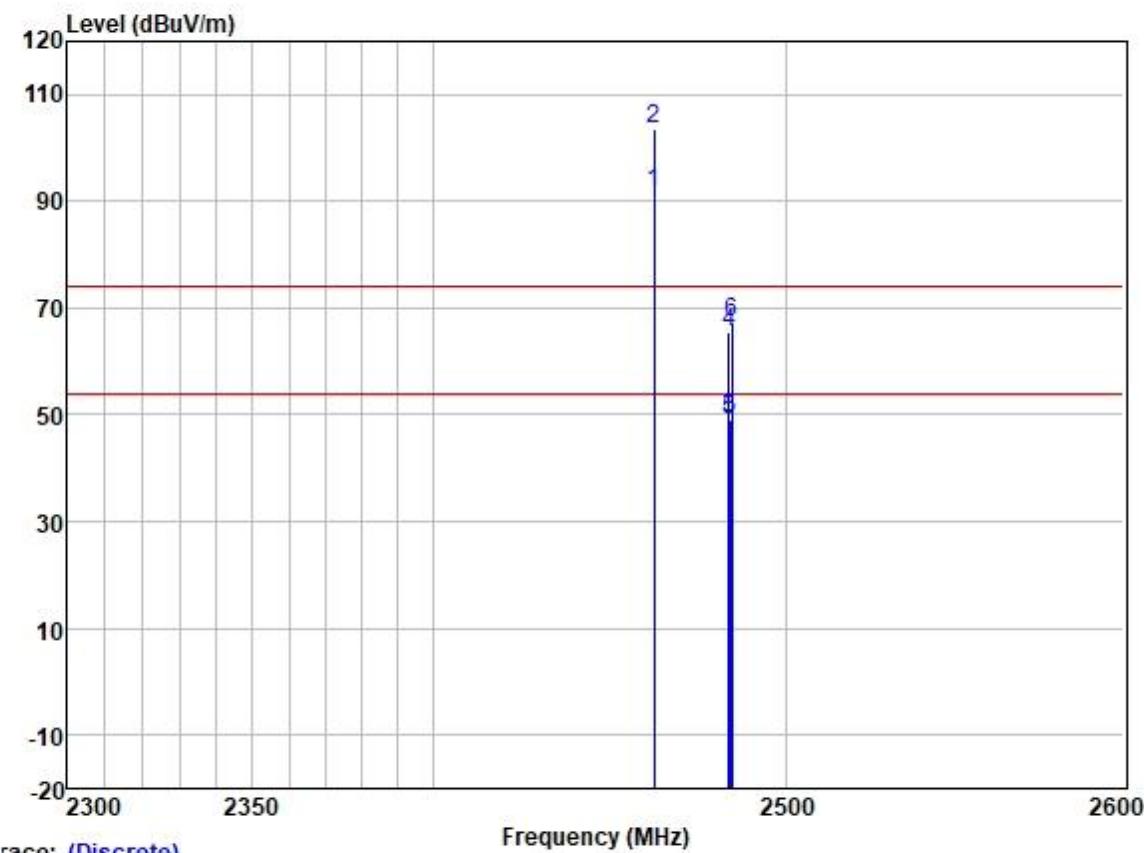
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Test Mode: 13; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 * 2462.000	98.44	27.45	3.50	37.58	91.81	54.00	37.81	VERTICAL	Average	
2 * 2462.000	110.19	27.45	3.50	37.58	103.56	74.00	29.56	VERTICAL	Peak	
3 2483.500	56.13	27.48	3.53	37.57	49.57	54.00	-4.43	VERTICAL	Average	
4 2483.500	71.91	27.48	3.53	37.57	65.35	74.00	-8.65	VERTICAL	Peak	
5 2483.865	55.71	27.48	3.53	37.57	49.15	54.00	-4.85	VERTICAL	Average	
6 2484.288	74.00	27.48	3.53	37.57	67.44	74.00	-6.56	VERTICAL	Peak	

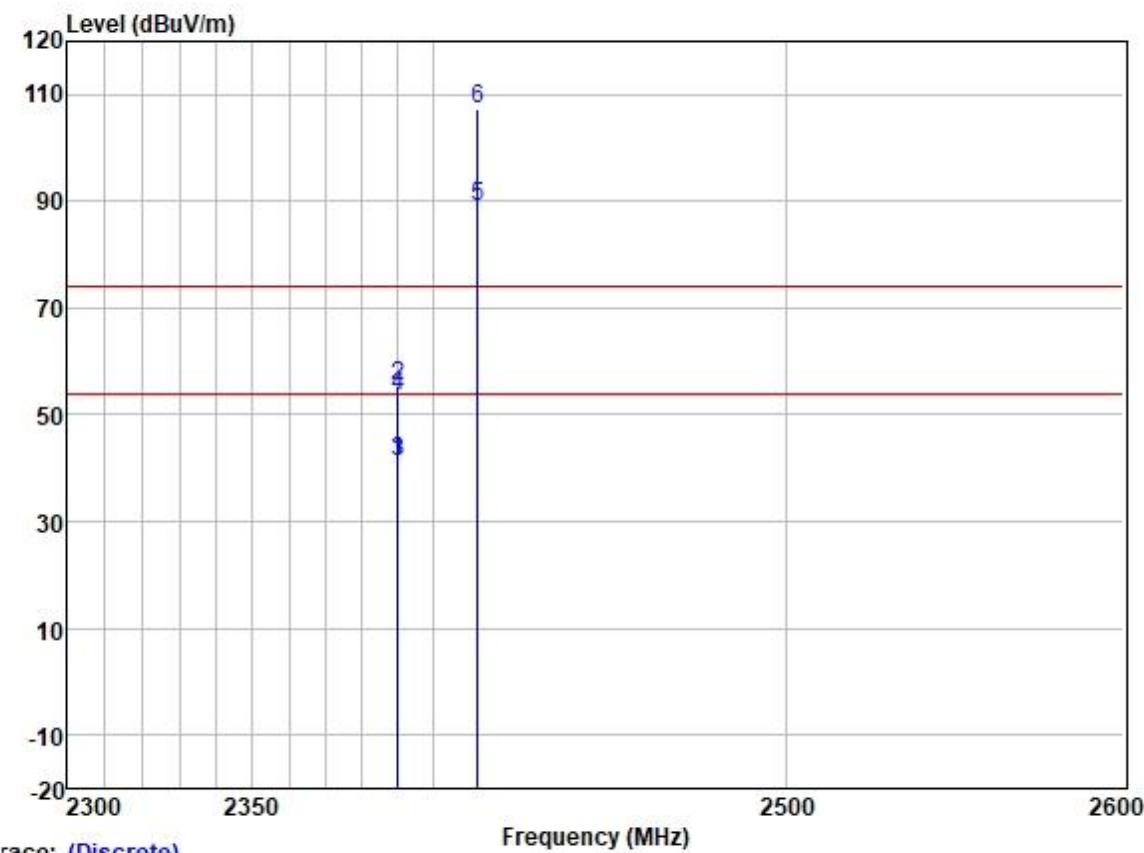
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1	2389.968	48.14	27.33	3.48	37.59	41.36	54.00	-12.64	HORIZONTAL	Average
2	2389.968	62.13	27.33	3.48	37.59	55.35	74.00	-18.65	HORIZONTAL	Peak
3	2390.000	48.14	27.33	3.48	37.59	41.36	54.00	-12.64	HORIZONTAL	Average
4	2390.000	60.51	27.33	3.48	37.59	53.73	74.00	-20.27	HORIZONTAL	Peak
5 *	2412.000	95.72	27.38	3.47	37.59	88.98	54.00	34.98	HORIZONTAL	Average
6 *	2412.000	113.94	27.38	3.47	37.59	107.20	74.00	33.20	HORIZONTAL	Peak

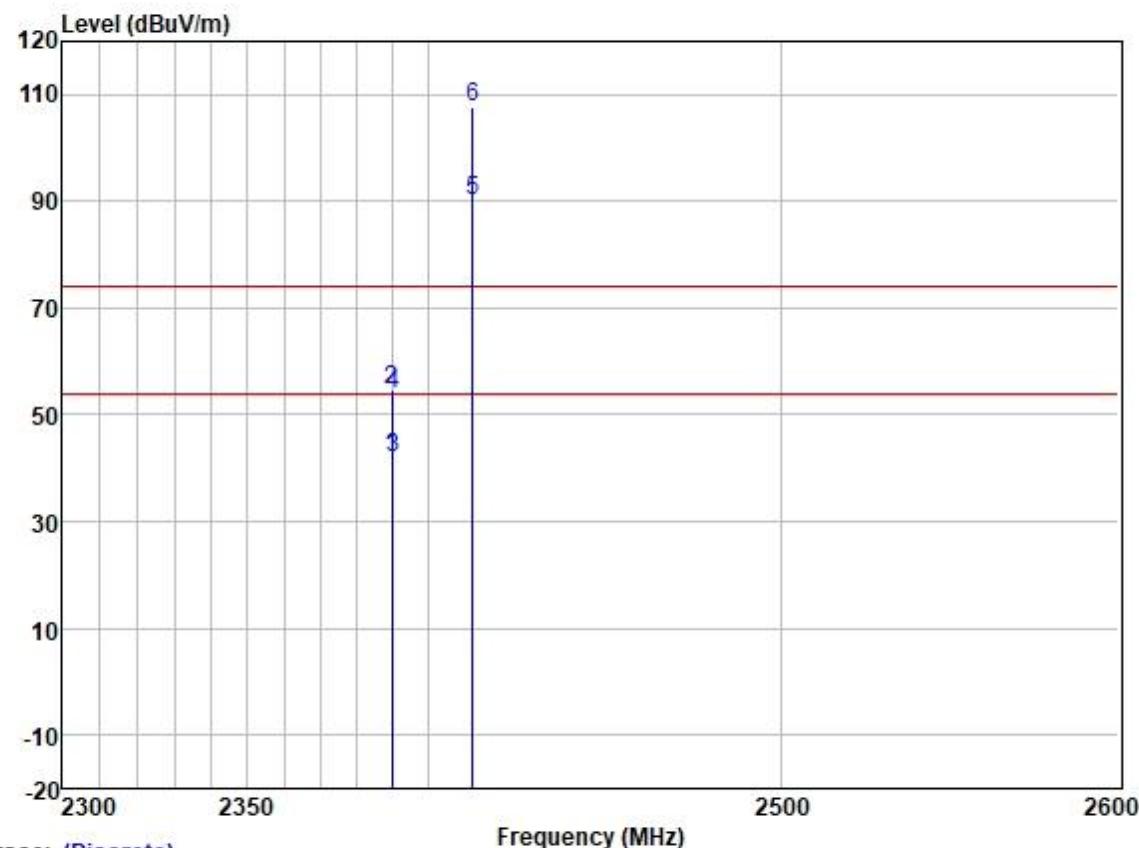
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Test Mode: 13; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	2389.484	48.60	27.33	3.48	37.59	41.82	54.00	-12.18	VERTICAL	Average
2	2389.484	61.36	27.33	3.48	37.59	54.58	74.00	-19.42	VERTICAL	Peak
3	2390.000	48.59	27.33	3.48	37.59	41.81	54.00	-12.19	VERTICAL	Average
4	2390.000	60.60	27.33	3.48	37.59	53.82	74.00	-20.18	VERTICAL	Peak
5 *	2412.000	96.84	27.38	3.47	37.59	90.10	54.00	36.10	VERTICAL	Average
6 *	2412.000	114.58	27.38	3.47	37.59	107.84	74.00	33.84	VERTICAL	Peak

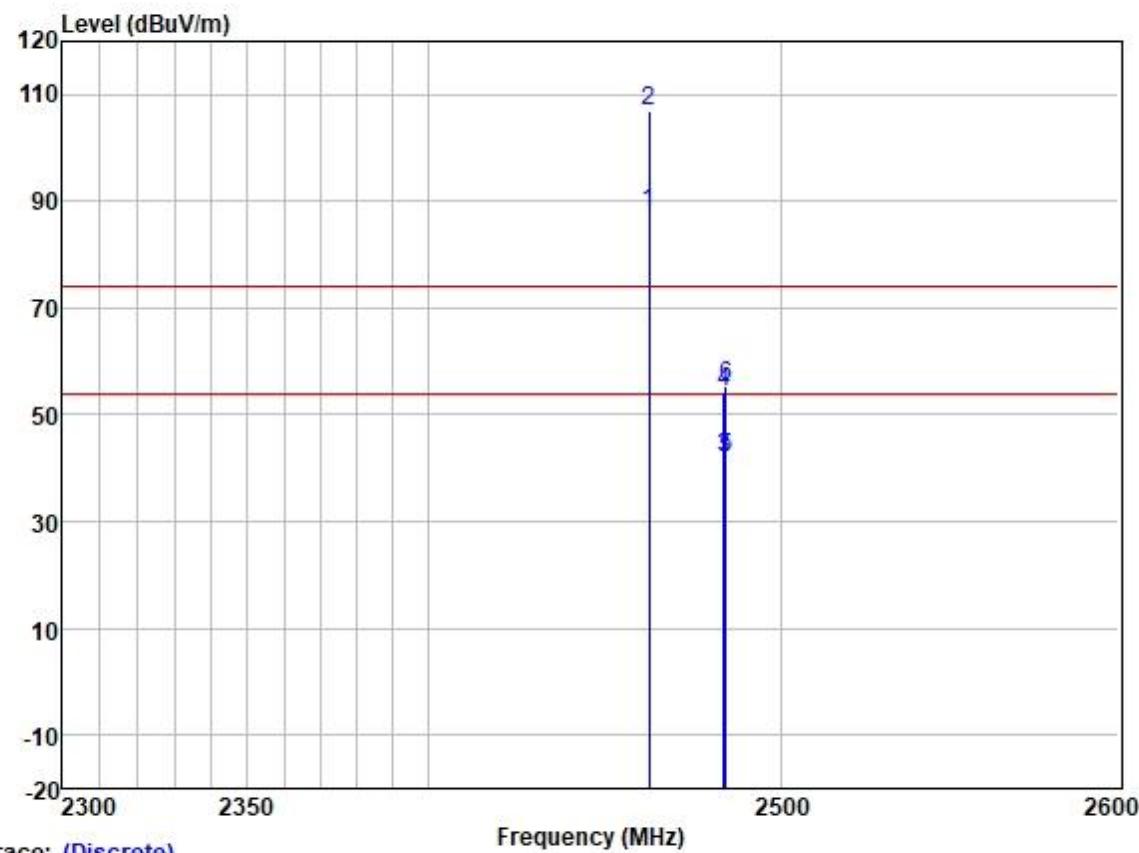
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:11



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 * 2462.000	94.60	27.45	3.50	37.58	87.97	54.00	33.97	HORIZONTAL	Average	
2 * 2462.000	113.68	27.45	3.50	37.58	107.05	74.00	33.05	HORIZONTAL	Peak	
3 2483.500	48.55	27.48	3.53	37.57	41.99	54.00	-12.01	HORIZONTAL	Average	
4 2483.500	60.73	27.48	3.53	37.57	54.17	74.00	-19.83	HORIZONTAL	Peak	
5 2484.041	48.62	27.48	3.53	37.57	42.06	54.00	-11.94	HORIZONTAL	Average	
6 2484.041	61.96	27.48	3.53	37.57	55.40	74.00	-18.60	HORIZONTAL	Peak	

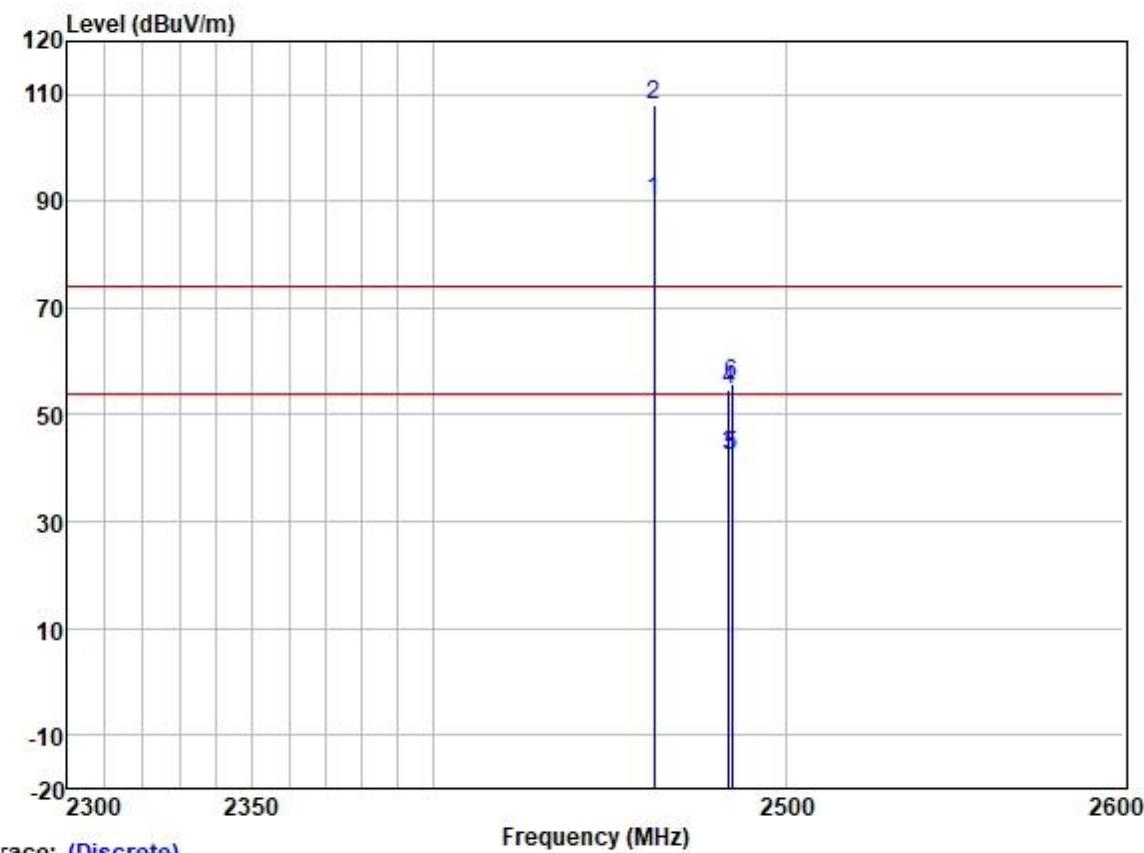
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Test Mode: 13; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 * 2462.000	96.80	27.45	3.50	37.58	90.17	54.00	36.17	VERTICAL	Average	
2 * 2462.000	114.51	27.45	3.50	37.58	107.88	74.00	33.88	VERTICAL	Peak	
3 2483.500	48.76	27.48	3.53	37.57	42.20	54.00	-11.80	VERTICAL	Average	
4 2483.500	61.35	27.48	3.53	37.57	54.79	74.00	-19.21	VERTICAL	Peak	
5 2484.442	48.83	27.48	3.53	37.57	42.27	54.00	-11.73	VERTICAL	Average	
6 2484.442	62.25	27.48	3.53	37.57	55.69	74.00	-18.31	VERTICAL	Peak	

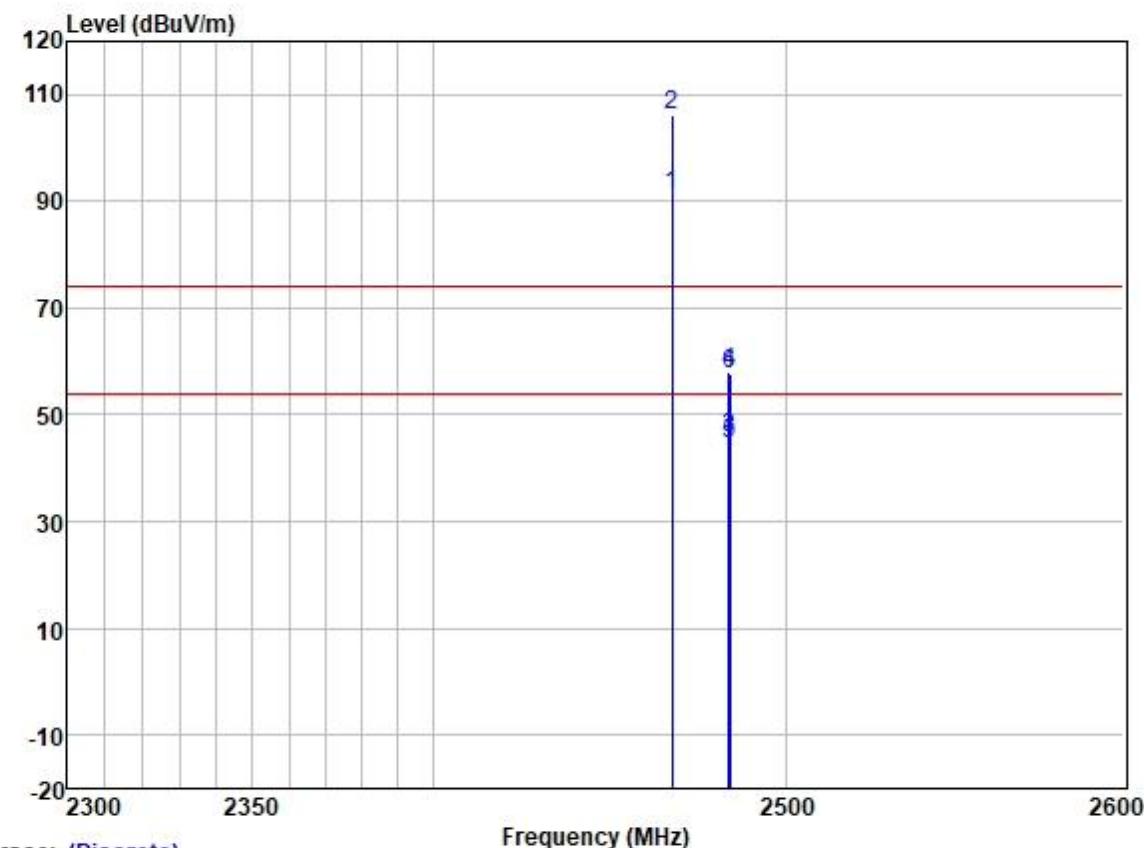
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:12



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss					
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2467.000	97.85	27.45	3.50	37.57	91.23	54.00	37.23	HORIZONTAL Average
2 *	2467.000	112.82	27.45	3.50	37.57	106.20	74.00	32.20	HORIZONTAL Peak
3	2483.500	52.30	27.48	3.53	37.57	45.74	54.00	-8.26	HORIZONTAL Average
4	2483.500	64.50	27.48	3.53	37.57	57.94	74.00	-16.06	HORIZONTAL Peak
5	2483.840	51.04	27.48	3.53	37.57	44.48	54.00	-9.52	HORIZONTAL Average
6	2483.890	64.34	27.48	3.53	37.57	57.78	74.00	-16.22	HORIZONTAL Peak

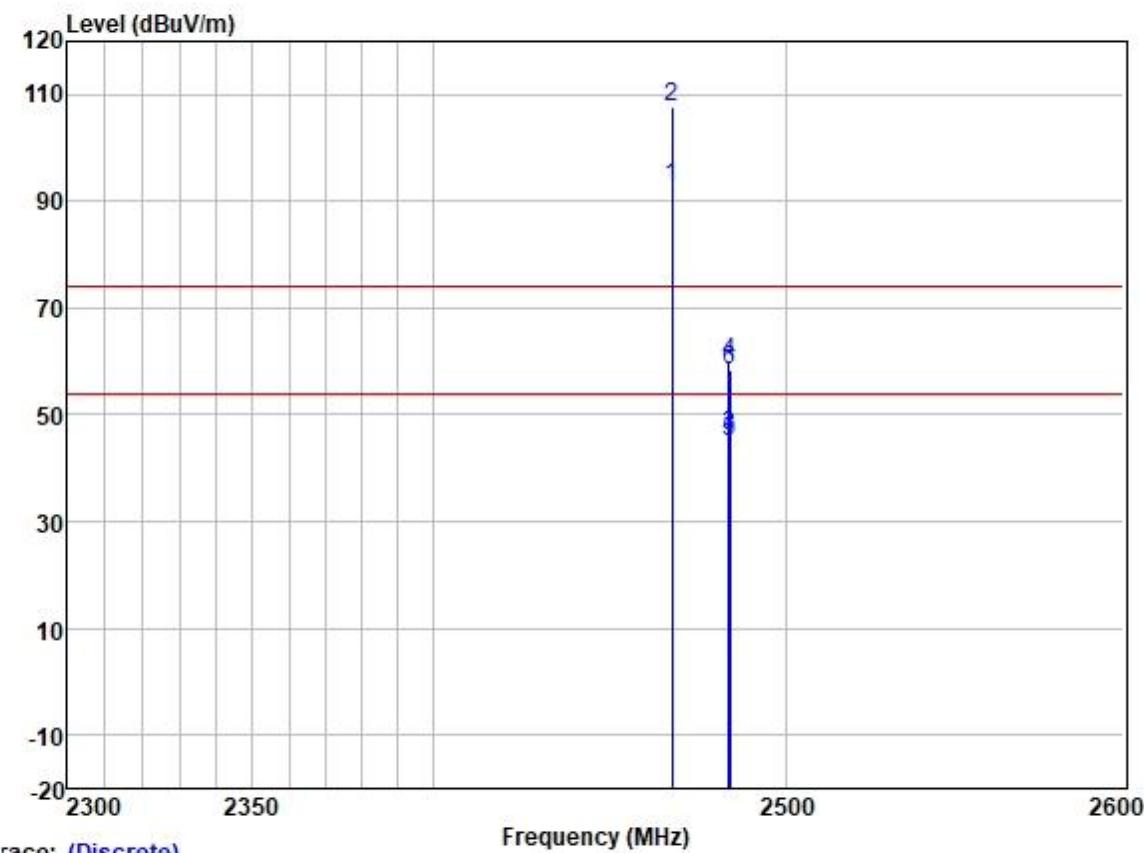
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Test Mode: 13; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:12



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2467.000	99.37	27.45	3.50	37.57	92.75	54.00	38.75	VERTICAL Average
2 *	2467.000	114.24	27.45	3.50	37.57	107.62	74.00	33.62	VERTICAL Peak
3	2483.500	52.77	27.48	3.53	37.57	46.21	54.00	-7.79	VERTICAL Average
4	2483.500	66.50	27.48	3.53	37.57	59.94	74.00	-14.06	VERTICAL Peak
5	2483.790	51.69	27.48	3.53	37.57	45.13	54.00	-8.87	VERTICAL Average
6	2483.790	65.13	27.48	3.53	37.57	58.57	74.00	-15.43	VERTICAL Peak

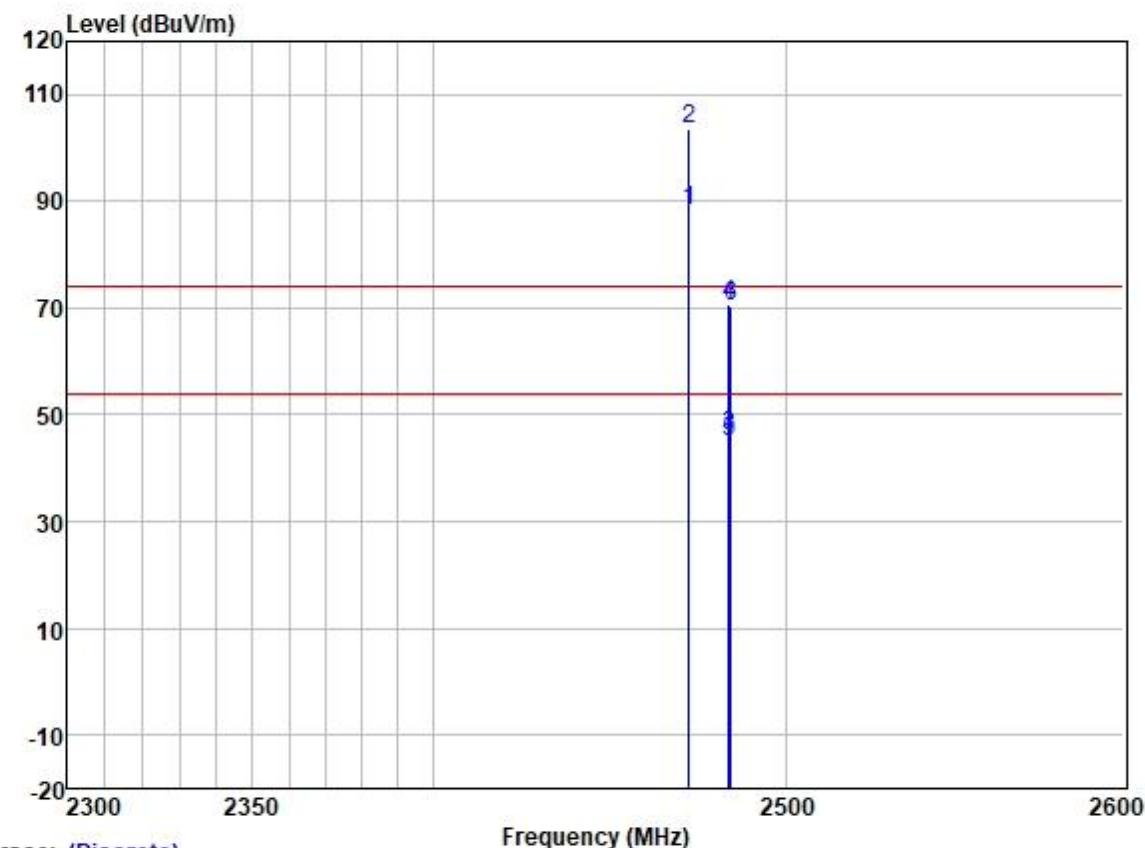
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:13



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2472.000	94.78	27.46	3.55	37.57	88.22	54.00	34.22	HORIZONTAL	Average
2 *	2472.000	110.23	27.46	3.55	37.57	103.67	74.00	29.67	HORIZONTAL	Peak
3	2483.500	52.65	27.48	3.53	37.57	46.09	54.00	-7.91	HORIZONTAL	Average
4	2483.500	77.24	27.48	3.53	37.57	70.68	74.00	-3.32	HORIZONTAL	Peak
5	2483.840	51.42	27.48	3.53	37.57	44.86	54.00	-9.14	HORIZONTAL	Average
6	2484.091	76.84	27.48	3.53	37.57	70.28	74.00	-3.72	HORIZONTAL	Peak

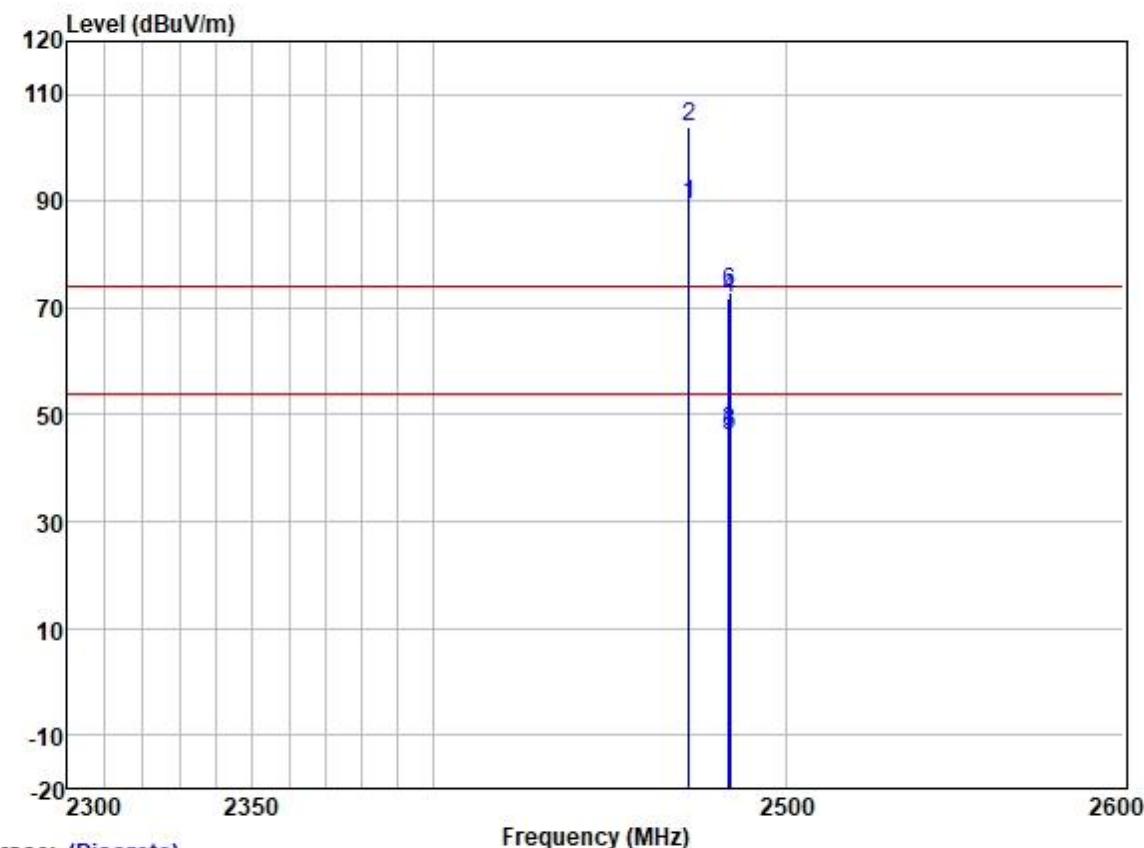
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Test Mode: 13; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:13



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2472.000	95.90	27.46	3.55	37.57	89.34	54.00	35.34	VERTICAL	Average
2 *	2472.000	110.68	27.46	3.55	37.57	104.12	74.00	30.12	VERTICAL	Peak
3	2483.500	53.45	27.48	3.53	37.57	46.89	54.00	-7.11	VERTICAL	Average
4	2483.500	78.37	27.48	3.53	37.57	71.81	74.00	-2.19	VERTICAL	Peak
5	2483.790	52.53	27.48	3.53	37.57	45.97	54.00	-8.03	VERTICAL	Average
6	2483.840	79.34	27.48	3.53	37.57	72.78	74.00	-1.22	VERTICAL	Peak

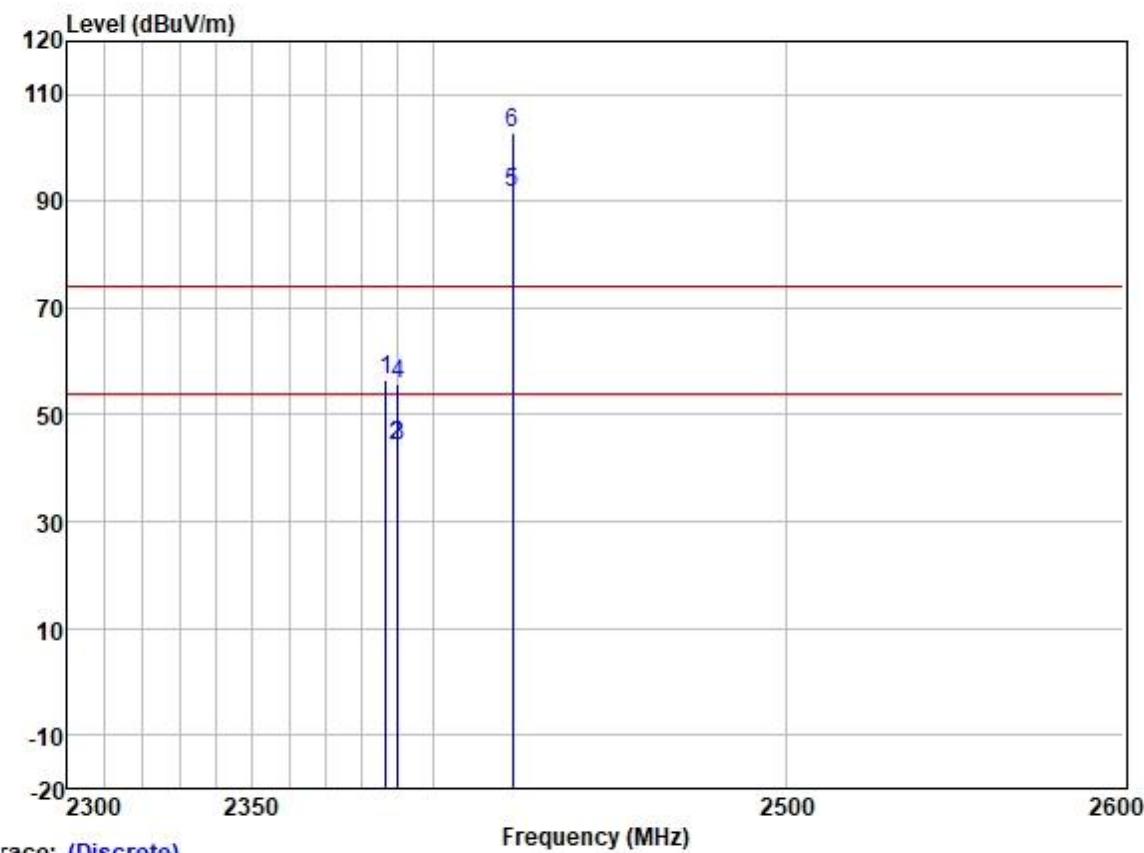
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



Race: (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	2386.521	63.26	27.33	3.48	37.60	56.47	74.00	-17.53	HORIZONTAL	Peak
2	2389.526	51.01	27.33	3.48	37.59	44.23	54.00	-9.77	HORIZONTAL	Average
3	2390.000	50.90	27.33	3.48	37.59	44.12	54.00	-9.88	HORIZONTAL	Average
4	2390.000	62.55	27.33	3.48	37.59	55.77	74.00	-18.23	HORIZONTAL	Peak
5 *	2422.000	98.33	27.39	3.45	37.58	91.59	54.00	37.59	HORIZONTAL	Average
6 *	2422.000	109.64	27.39	3.45	37.58	102.90	74.00	28.90	HORIZONTAL	Peak

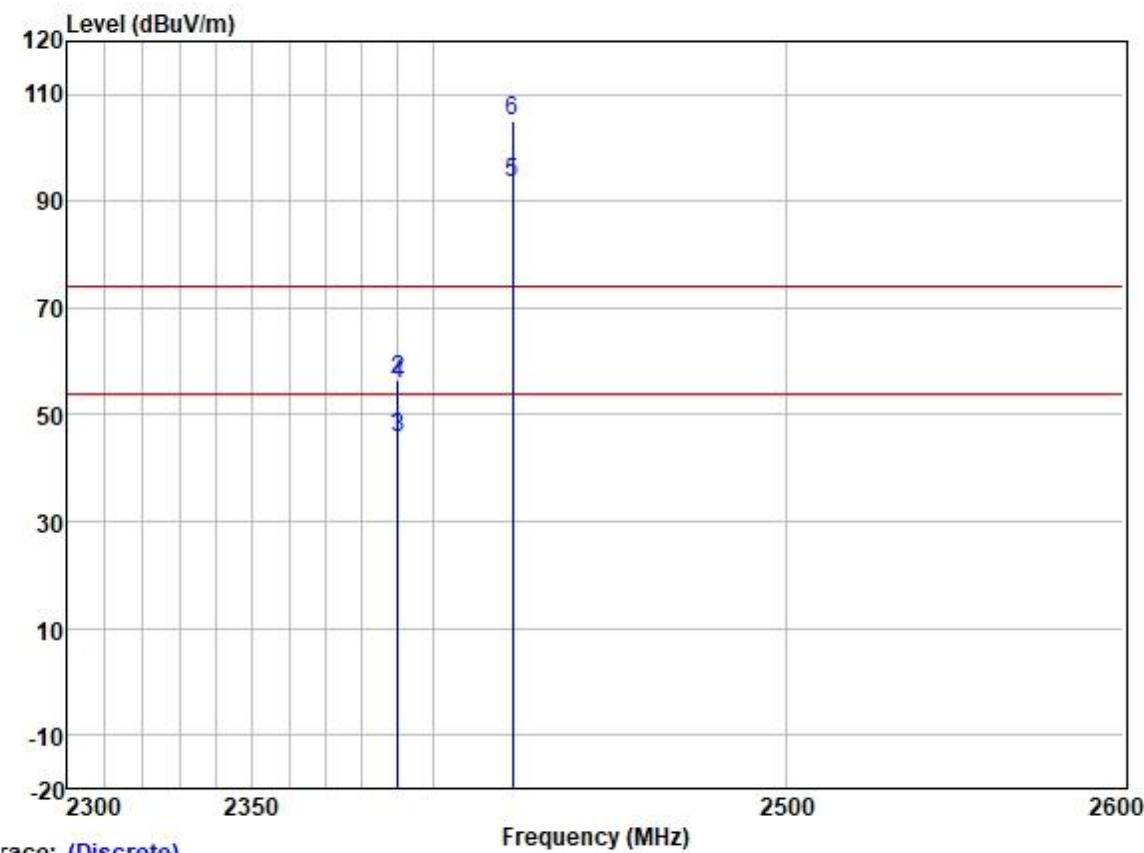
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Test Mode: 13; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	Line				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2389.526	52.75	27.33	3.48	37.59	45.97	54.00	-8.03	VERTICAL	Average
2	2389.827	63.41	27.33	3.48	37.59	56.63	74.00	-17.37	VERTICAL	Peak
3	2390.000	52.65	27.33	3.48	37.59	45.87	54.00	-8.13	VERTICAL	Average
4	2390.000	62.39	27.33	3.48	37.59	55.61	74.00	-18.39	VERTICAL	Peak
5 *	2422.000	100.26	27.39	3.45	37.58	93.52	54.00	39.52	VERTICAL	Average
6 *	2422.000	111.80	27.39	3.45	37.58	105.06	74.00	31.06	VERTICAL	Peak

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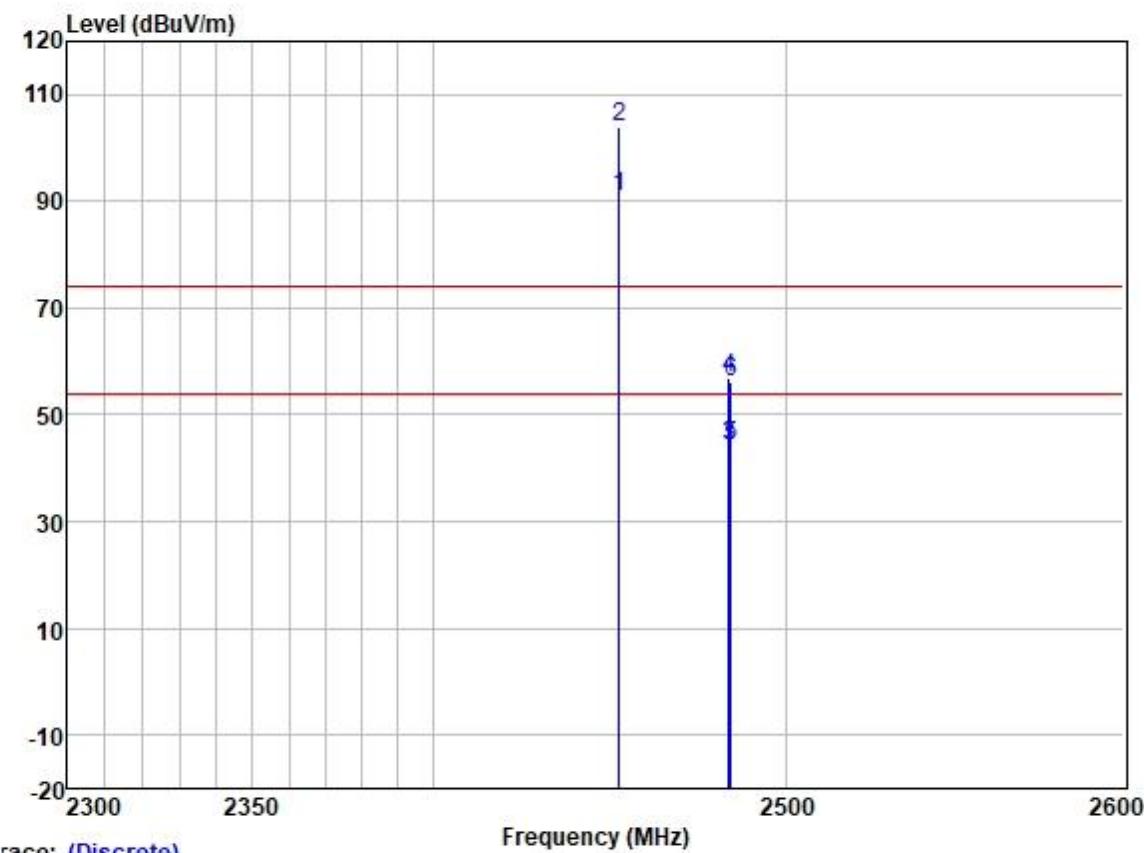
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:9



Race: (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 *	2452.000	97.45	27.43	3.40	37.58	90.70	54.00	36.70	HORIZONTAL	Average
2 *	2452.000	110.59	27.43	3.40	37.58	103.84	74.00	29.84	HORIZONTAL	Peak
3	2483.500	50.82	27.48	3.53	37.57	44.26	54.00	-9.74	HORIZONTAL	Average
4	2483.500	63.36	27.48	3.53	37.57	56.80	74.00	-17.20	HORIZONTAL	Peak
5	2483.935	50.64	27.48	3.53	37.57	44.08	54.00	-9.92	HORIZONTAL	Average
6	2484.006	62.87	27.48	3.53	37.57	56.31	74.00	-17.69	HORIZONTAL	Peak

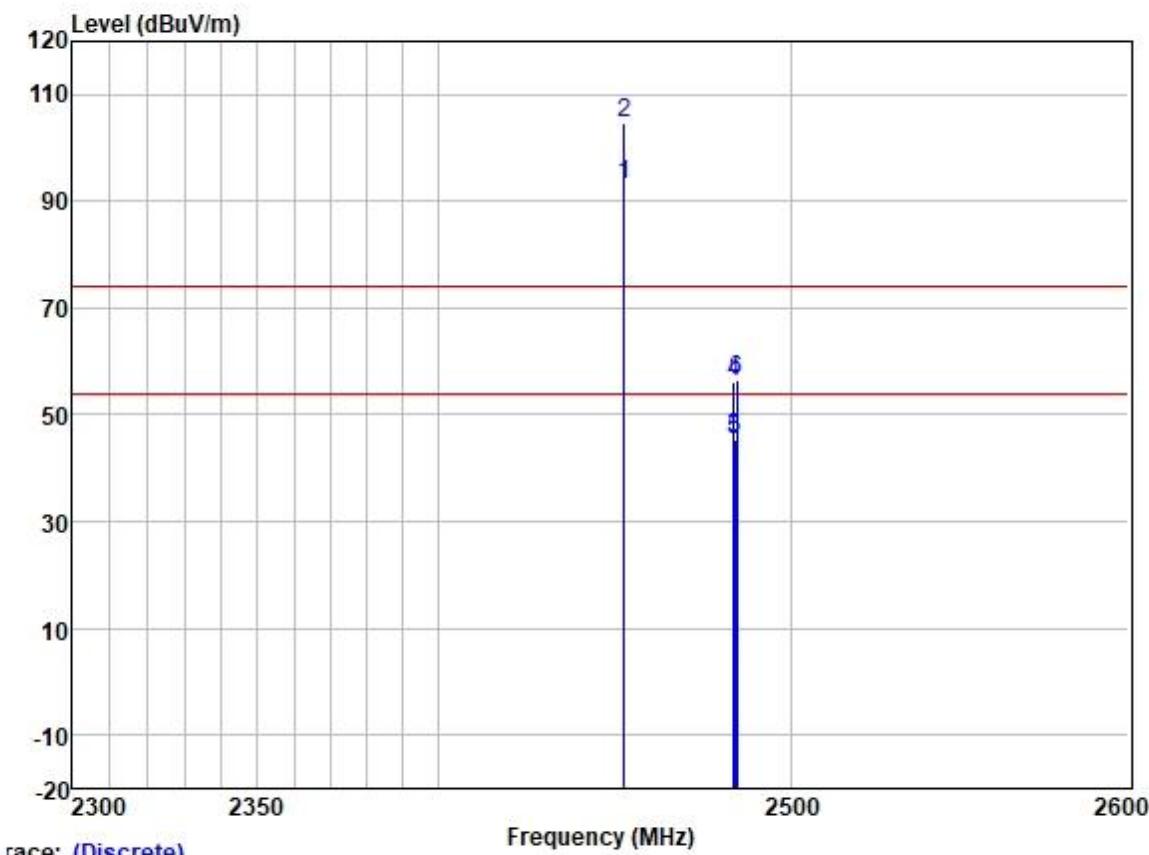
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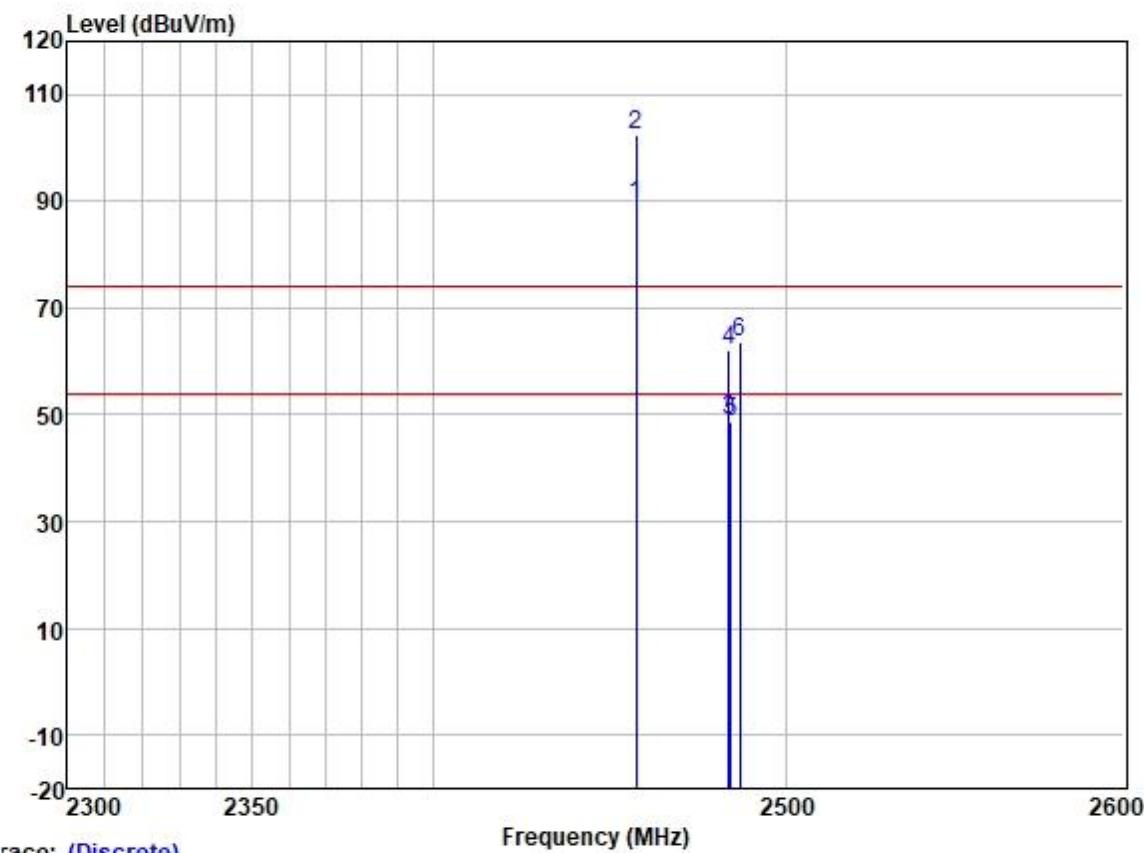
Test Mode: 13; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:9



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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:10



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2457.000	96.20	27.44	3.45	37.58	89.51	54.00	35.51	HORIZONTAL	Average
2 *	2457.000	109.04	27.44	3.45	37.58	102.35	74.00	28.35	HORIZONTAL	Peak
3	2483.500	55.65	27.48	3.53	37.57	49.09	54.00	-4.91	HORIZONTAL	Average
4	2483.500	68.61	27.48	3.53	37.57	62.05	74.00	-11.95	HORIZONTAL	Peak
5	2483.935	55.25	27.48	3.53	37.57	48.69	54.00	-5.31	HORIZONTAL	Average
6	2486.688	70.20	27.48	3.53	37.57	63.64	74.00	-10.36	HORIZONTAL	Peak

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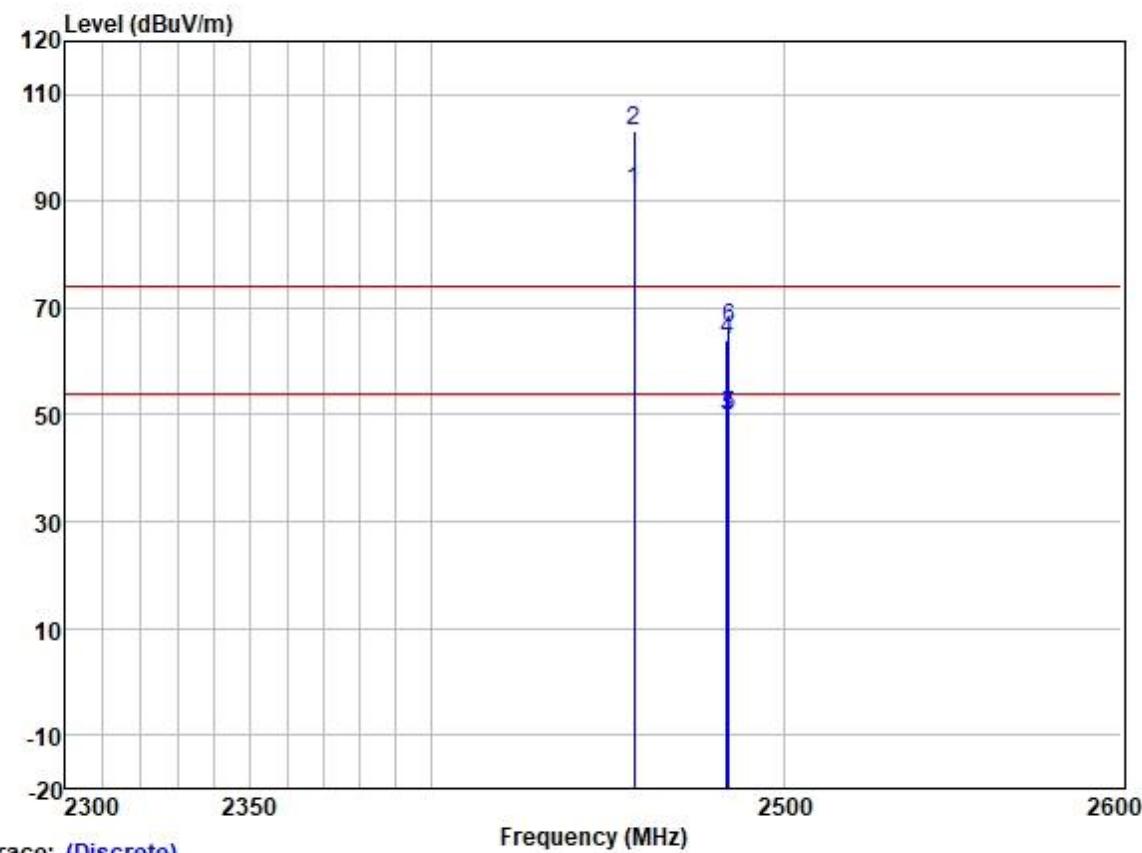
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Test Mode: 13; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:10



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1 * 2457.000	98.75	27.44	3.45	37.58	92.06	54.00	38.06	VERTICAL	Average	
2 * 2457.000	110.04	27.44	3.45	37.58	103.35	74.00	29.35	VERTICAL	Peak	
3 2483.500	56.38	27.48	3.53	37.57	49.82	54.00	-4.18	VERTICAL	Average	
4 2483.500	70.70	27.48	3.53	37.57	64.14	74.00	-9.86	VERTICAL	Peak	
5 2483.935	56.19	27.48	3.53	37.57	49.63	54.00	-4.37	VERTICAL	Average	
6 2483.935	72.90	27.48	3.53	37.57	66.34	74.00	-7.66	VERTICAL	Peak	

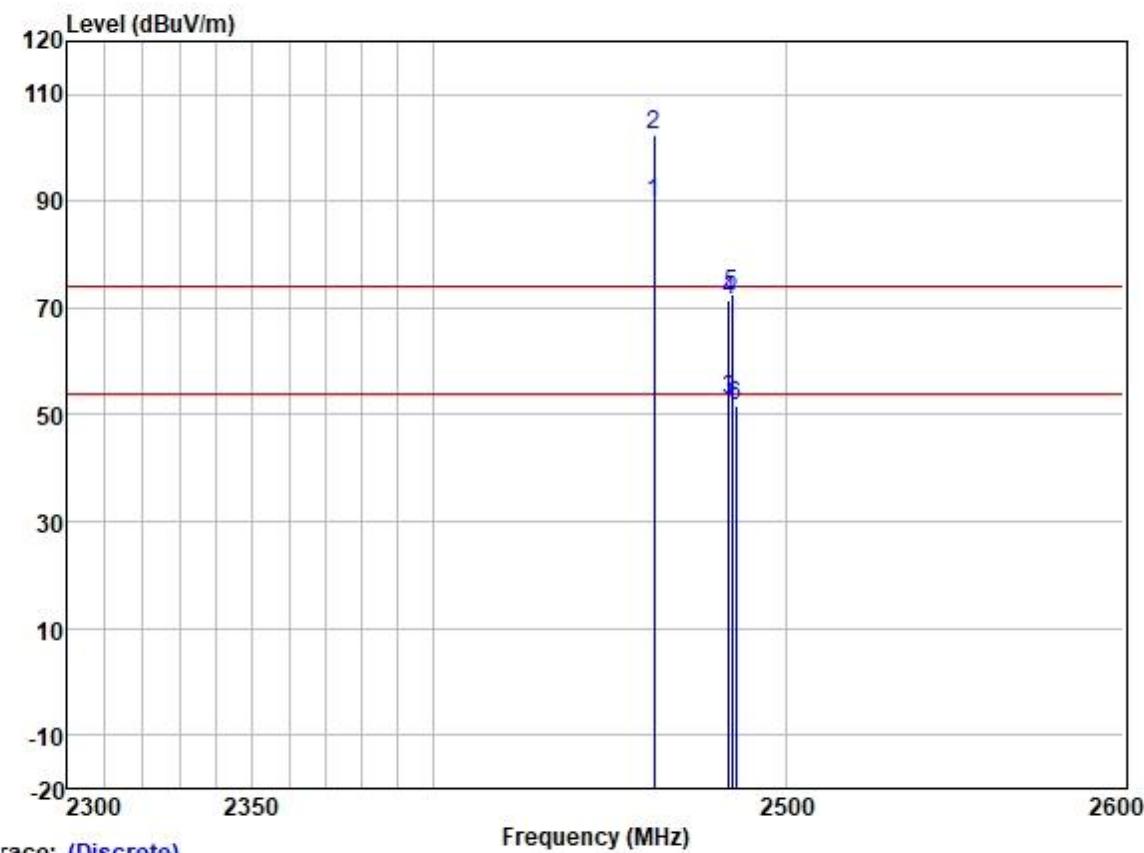
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2462.000	96.22	27.45	3.50	37.58	89.59	54.00	35.59	HORIZONTAL	Average
2 *	2462.000	108.91	27.45	3.50	37.58	102.28	74.00	28.28	HORIZONTAL	Peak
3	2483.500	59.43	27.48	3.53	37.57	52.87	54.00	-1.13	HORIZONTAL	Average
4	2483.500	78.18	27.48	3.53	37.57	71.62	74.00	-2.38	HORIZONTAL	Peak
5	2484.217	79.26	27.48	3.53	37.57	72.70	74.00	-1.30	HORIZONTAL	Peak
6	2485.488	58.35	27.48	3.53	37.57	51.79	54.00	-2.21	HORIZONTAL	Average

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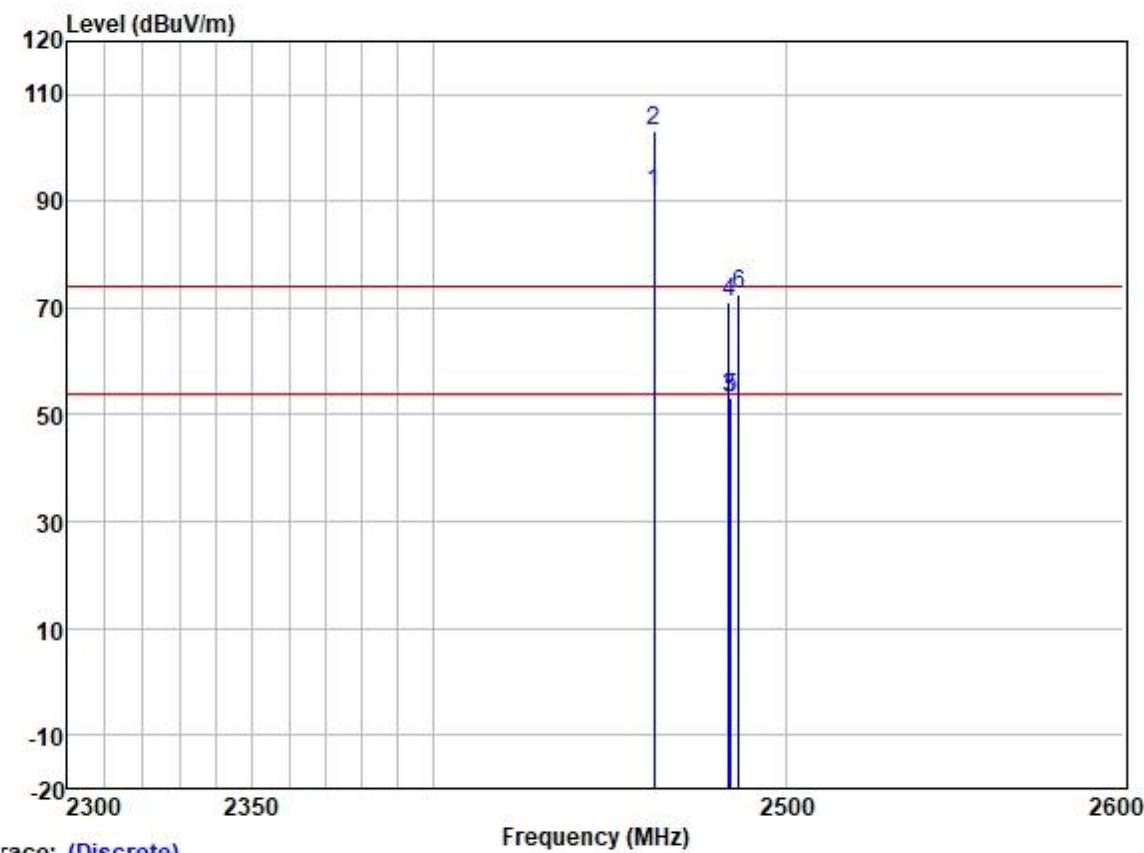
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Test Mode: 13; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1 * 2462.000	98.20	27.45	3.50	37.58	91.57	54.00	37.57	VERTICAL	Average	
2 * 2462.000	109.96	27.45	3.50	37.58	103.33	74.00	29.33	VERTICAL	Peak	
3 2483.500	59.82	27.48	3.53	37.57	53.26	54.00	-0.74	VERTICAL	Average	
4 2483.500	77.63	27.48	3.53	37.57	71.07	74.00	-2.93	VERTICAL	Peak	
5 2484.006	59.63	27.48	3.53	37.57	53.07	54.00	-0.93	VERTICAL	Average	
6 2486.405	79.09	27.48	3.53	37.57	72.53	74.00	-1.47	VERTICAL	Peak	

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7.3 Radiated Spurious Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

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.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.1 °C Humidity: 45.1 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	12	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.
Final test	13	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.

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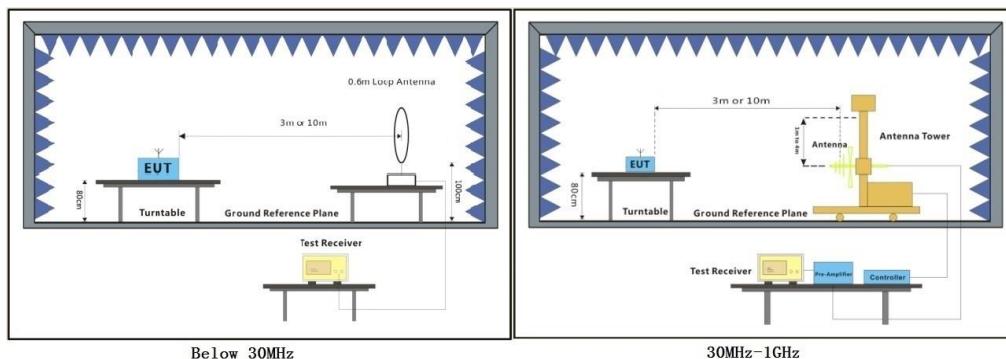
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7.3.3 Test Setup Diagram



7.3.4 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

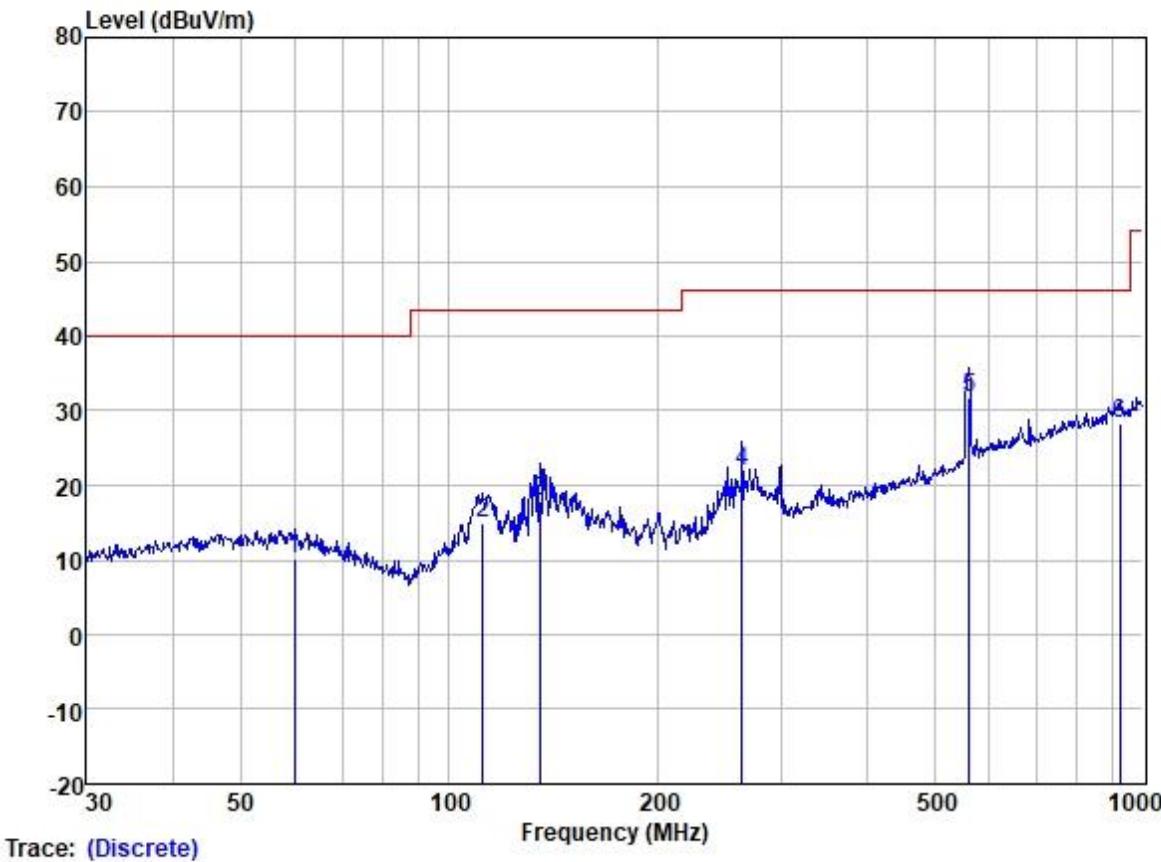
3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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Test Mode: 13; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : SGS
Job :
Model :
Power :
Test Mode : 13

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 59.859	23.15	12.92	1.26	27.16	10.17	40.00	-29.83	HORIZONTAL	QP
2 111.738	30.09	10.22	1.80	27.05	15.06	43.50	-28.44	HORIZONTAL	QP
3 135.032	30.44	12.41	2.03	26.97	17.91	43.50	-25.59	HORIZONTAL	QP
4 263.819	33.49	11.96	3.00	26.59	21.86	46.00	-24.14	HORIZONTAL	QP
5 560.693	36.39	18.50	4.88	28.14	31.63	46.00	-14.37	HORIZONTAL	QP
6 925.756	25.32	23.65	7.01	27.81	28.17	46.00	-17.83	HORIZONTAL	QP

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