



Report No.: SZEM210100002802
Page: 1 of 317

TEST REPORT

Application No.: SZEM2101000028CR
Applicant: Flir Belgium BVBA
Address of Applicant: Luxemburgstraat 2, Meer 2321, Belgium
Manufacturer: Shenzhen Fastrain Technology Co., Ltd.
Address of Manufacturer: No.3 Baolong 4th Rd., Baolong Industrial Area, Longgang District, Shenzhen, China
Factory: Shenzhen Fastrain Technology Co., Ltd.
Address of Factory: No.3 Baolong 4th Rd., Baolong Industrial Area, Longgang District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: YachtSense Link – Marine Cloud Router
Model No.: E70640
Trade Mark: Raymarine
FCC ID: PJ5-RAY4GHUB
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2021-01-04
Date of Test: 2021-01-07 to 2021-02-24
Date of Issue: 2021-02-24

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-02-24		Original

Authorized for issue by:			
			
		Edison Li/Project Engineer	
			
		Eric Fu/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	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass



3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY.....	3
3 CONTENTS	4
4 GENERAL INFORMATION.....	6
4.1 DETAILS OF E.U.T.....	6
4.2 DETAILS OF BOAT WLAN(AP MODE).....	6
4.3 DETAILS OF DOCK WLAN(STATION MODE)	6
4.4 DESCRIPTION OF SUPPORT UNITS.....	7
4.5 MEASUREMENT UNCERTAINTY	7
4.6 TEST LOCATION	8
4.7 TEST FACILITY	8
4.8 DEVIATION FROM STANDARDS	8
4.9 ABNORMALITIES FROM STANDARD CONDITIONS	8
5 EQUIPMENT LIST	9
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	11
6.1 ANTENNA REQUIREMENT.....	11
6.1.1 Test Requirement:.....	11
7 RADIO SPECTRUM MATTER TEST RESULTS	12
7.1 CONDUCTED PEAK OUTPUT POWER	12
7.1.1 E.U.T. Operation.....	12
7.1.2 Test Mode Description	12
7.1.3 Test Setup Diagram	13
7.1.4 Measurement Procedure and Data.....	13
7.2 MINIMUM 6DB BANDWIDTH	14
7.2.1 E.U.T. Operation.....	14
7.2.2 Test Mode Description	14
7.2.3 Test Setup Diagram	14
7.2.4 Measurement Procedure and Data.....	14
7.3 POWER SPECTRUM DENSITY	15
7.3.1 E.U.T. Operation.....	15
7.3.2 Test Mode Description	15
7.3.3 Test Setup Diagram	15
7.3.4 Measurement Procedure and Data.....	15
7.4 CONDUCTED BAND EDGES MEASUREMENT	16
7.4.1 E.U.T. Operation.....	16
7.4.2 Test Mode Description	16
7.4.3 Test Setup Diagram	17
7.4.4 Measurement Procedure and Data.....	17
7.5 CONDUCTED SPURIOUS EMISSIONS.....	18
7.5.1 E.U.T. Operation.....	18

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7.5.2	<i>Test Mode Description</i>	18
7.5.3	<i>Test Setup Diagram</i>	19
7.5.4	<i>Measurement Procedure and Data</i>	19
7.6	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS.....	20
7.6.1	<i>E.U.T. Operation</i>	20
7.6.2	<i>Test Mode Description</i>	20
7.6.3	<i>Test Setup Diagram</i>	20
7.6.4	<i>Measurement Procedure and Data</i>	21
7.7	RADIATED SPURIOUS EMISSIONS	118
7.7.1	<i>E.U.T. Operation</i>	118
7.7.2	<i>Test Mode Description</i>	118
7.7.3	<i>Test Setup Diagram</i>	119
7.7.4	<i>Measurement Procedure and Data</i>	119
8	TEST SETUP PHOTO	195
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	195
10	APPENDIX1 FOR 15.247- DOCK WLAN(STATION MODE)	196
11	APPENDIX2 FOR 15.247- BOAT WLAN(AP MODE)	262-317



4 General Information

4.1 Details of E.U.T.

Power supply:	Nominal Supply Voltage:12/24V dc Operating Voltage Range:8V dc to 32V dc
Cable(s):	DC cable:150cm unshielded Network cable:110cm unshielded 5 in 1 SANAV antenna length:500cm unshielded 5 in 1 Sinclair antenna length:500cm unshielded
Internal Source:	More than 108MHz

4.2 Details of Boat WLAN(AP mode)

Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Numbers:	802.11b/g, 802.11n HT20: 11 Channels 802.11n HT40: 7 Channels
Sample Type:	Fixed device
Antenna Type:	Dipole antenna
Antenna Gain:	AP1 Antenna/ AP2 Antenna:5.3dBi Note: MIMO for 802.11n

4.3 Details of Dock WLAN(Station mode)

Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Numbers:	802.11b/g, 802.11n HT20: 11 Channels 802.11n HT40: 7 Channels
Sample Type:	Fixed device
Antenna Type:	Smart antenna
Antenna Gain:	Sinclair LM715(E6685) Rugged mobile antenna, 5 in 1, LTE&WiFi MIMO with GNSS, Sinclair1 Antenna/ Sinclair2 Antenna:1.9dBi SANAV 5-in-1 5G NR/ 4G LTE/ WiFi/ GNSS Combination Antenna SANAV1 Antenna:4.55dBi, SANAV2 Antenna:4.45dBi (Note: MIMO for 802.11n) Note: MIMO for 802.11n

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4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC power	ZHAOXIN	RXN-305D	REF. No. SEA2700

4.5 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	± 4.5dB (Below 1GHz); ± 4.8dB (Above 1GHz)
Radiated Spurious Emissions	± 4.5dB (Below 1GHz); ± 4.8dB (Above 1GHz)

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4.6 Test Location

All tests were performed at:

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518057.

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No tests were sub-contracted.

4.7 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None

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5 Equipment List

RF Conducted Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2020-05-21	2021-05-20

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI receiver(3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31



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Radiated Spurious Emissions

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

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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)

Limit:

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:

This product has three types of antennas (AP antenna, Sinclair antenna and SANAV antenna), the antenna connector is a R-SMA type that comply with Part15.203.

The best case gain of the AP1 Antenna/ AP2 Antenna is 5.3dBi, the Sinclair1 Antenna/ Sinclair2 Antenna is 1.9dBi, SANAV1 Antenna is 4.55dBi, SANAV2 Antenna is 4.45dBi.

Antenna location: Refer to External photos.

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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

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: 20.8 °C

Humidity: 22.6 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

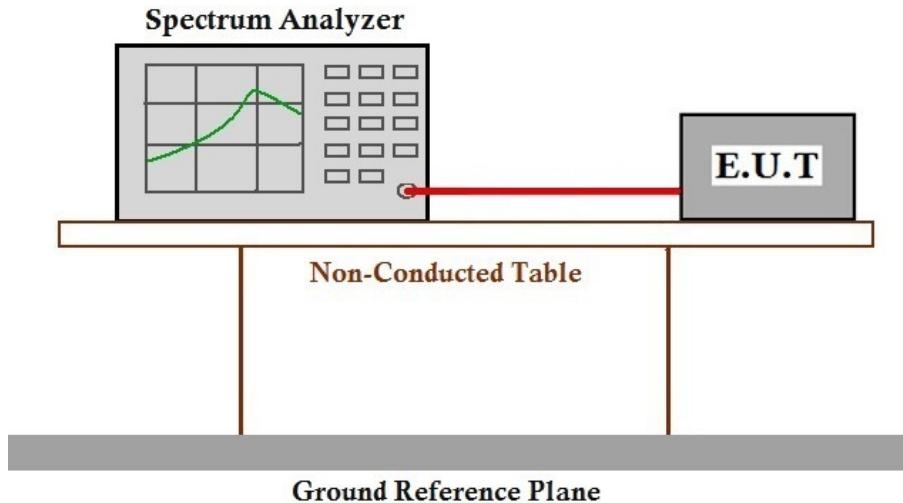
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7.1.3 Test Setup Diagram**7.1.4 Measurement Procedure and Data**

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

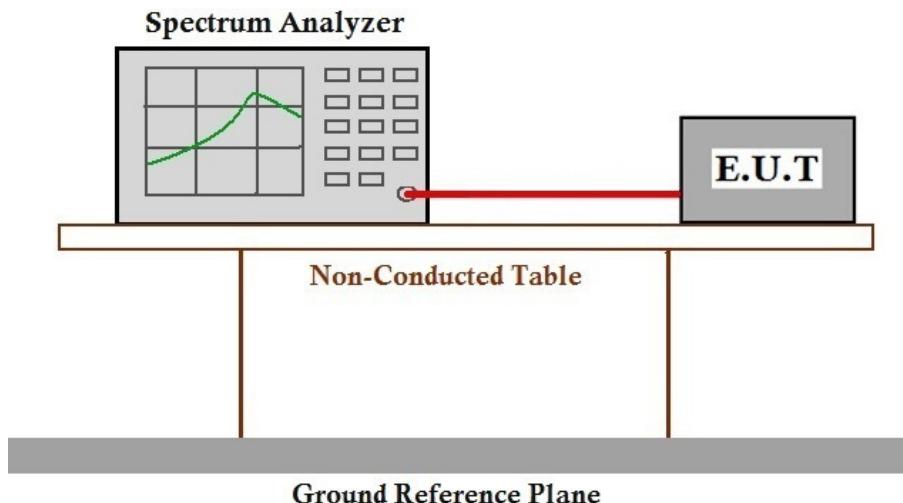
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 20.8 °C Humidity: 22.6 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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

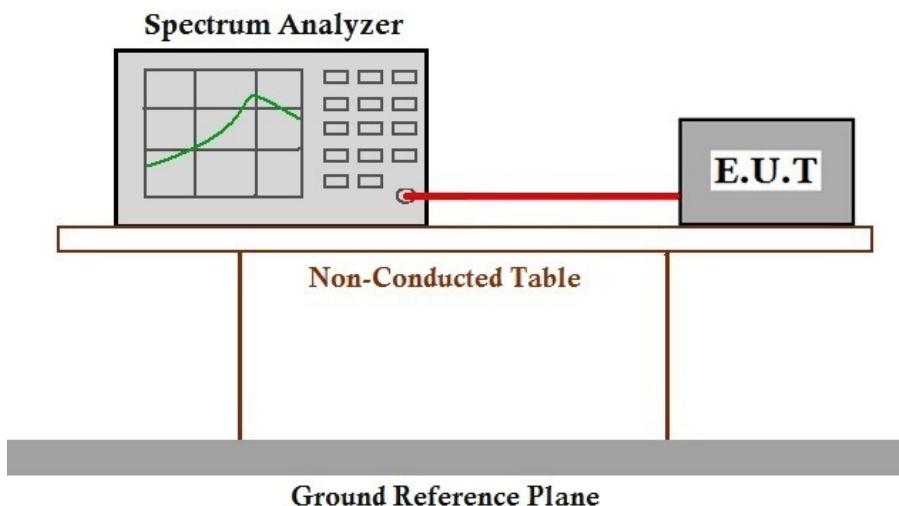
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 20.8 °C Humidity: 22.6 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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: 20.8 °C

Humidity: 22.6 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

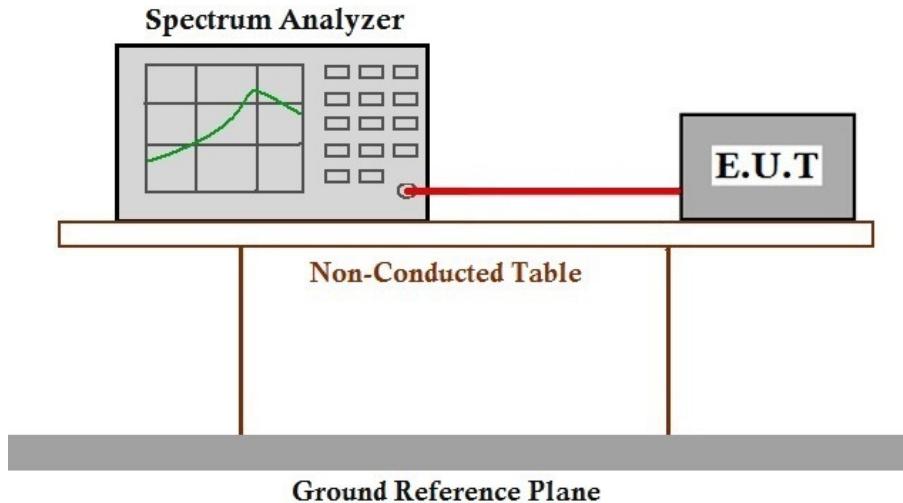
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

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

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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: 20.8 °C

Humidity: 22.6 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

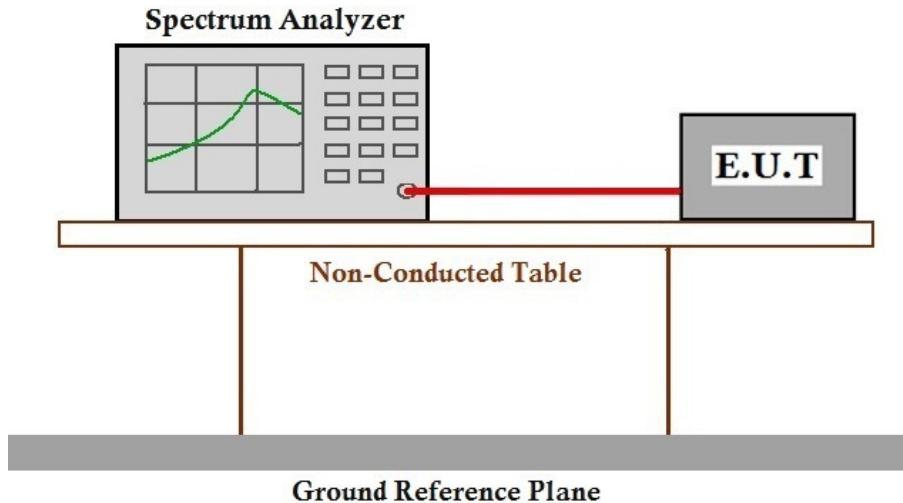
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

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7.5.3 Test Setup Diagram**7.5.4 Measurement Procedure and Data**

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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

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

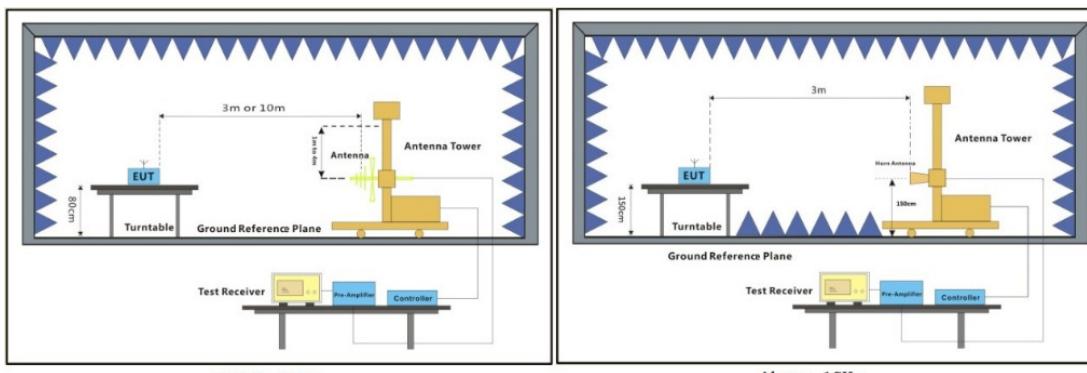
Operating Environment:

Temperature: 21.6 °C Humidity: 43.5 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



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7.6.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 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.

Remark 3:

For Boat WLAN(AP mode), Pretest the EUT at AP1 antenna and AP2 antenna, found the AP1 antenna which is worst case for 802.11b/g mode; Pretest the EUT at AP1 antenna, AP2 antenna and MIMO mode, found the MIMO mode which is worst case for 802.11n HT20 and 802.11n HT40 mode;

For Dock WLAN(Station mode), Pretest the EUT at Sinclair1 Antenna, Sinclair2 Antenna, SANAV1 Antenna and SANAV2 antenna, found the Sinclair1 Antenna and SANAV1 Antenna which is worst case for 802.11b/g mode; Pretest the EUT at Sinclair1 Antenna, Sinclair2 Antenna, SANAV1 Antenna, SANAV2 antenna and MIMO mode, found the MIMO mode which is worst case for 802.11n HT20 and 802.11n HT40 mode;

So, Only the worst test data is recorded in the report.



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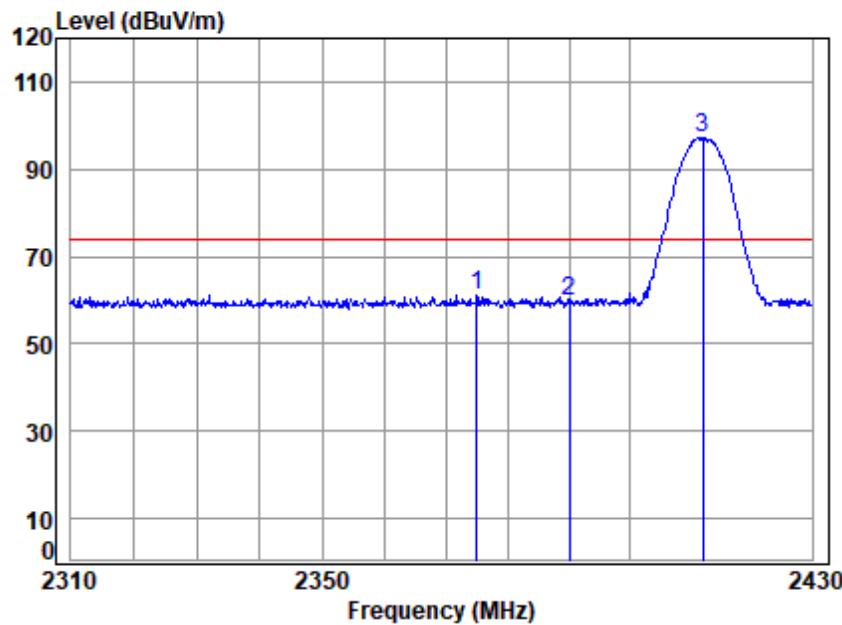
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Test data for Boat WLAN(AP mode)

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2375.007	4.32	28.49	40.41	68.89	61.29	74.00	-12.71 peak
2	2390.000	4.34	28.52	40.42	67.55	59.99	74.00	-14.01 peak
3 *	2412.000	4.38	28.56	40.43	104.77	97.28	74.00	23.28 peak

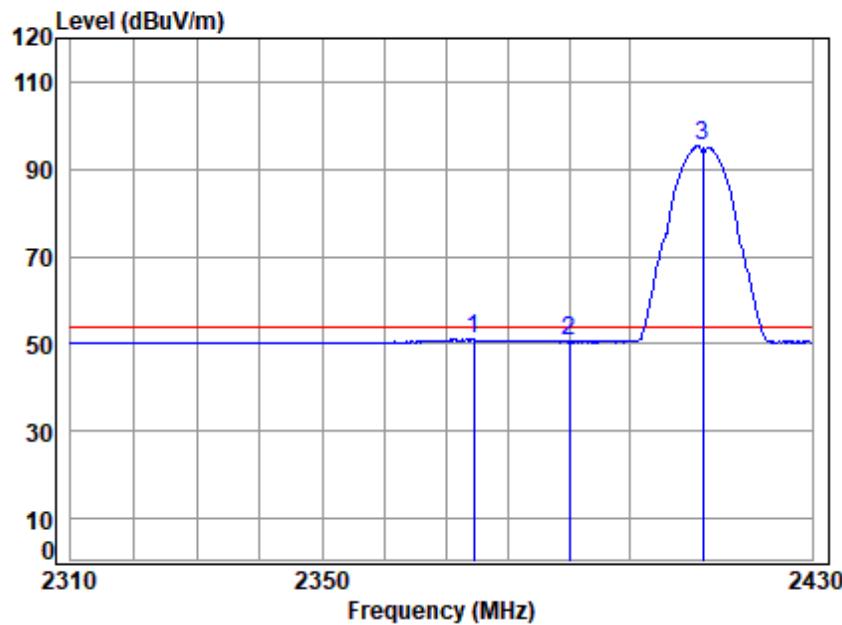


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2374.406	4.32	28.49	40.41	58.77	51.17	54.00	-2.83 Average
2	2390.000	4.34	28.52	40.42	58.06	50.50	54.00	-3.50 Average
3 *	2412.000	4.38	28.56	40.43	102.79	95.30	54.00	41.30 Average



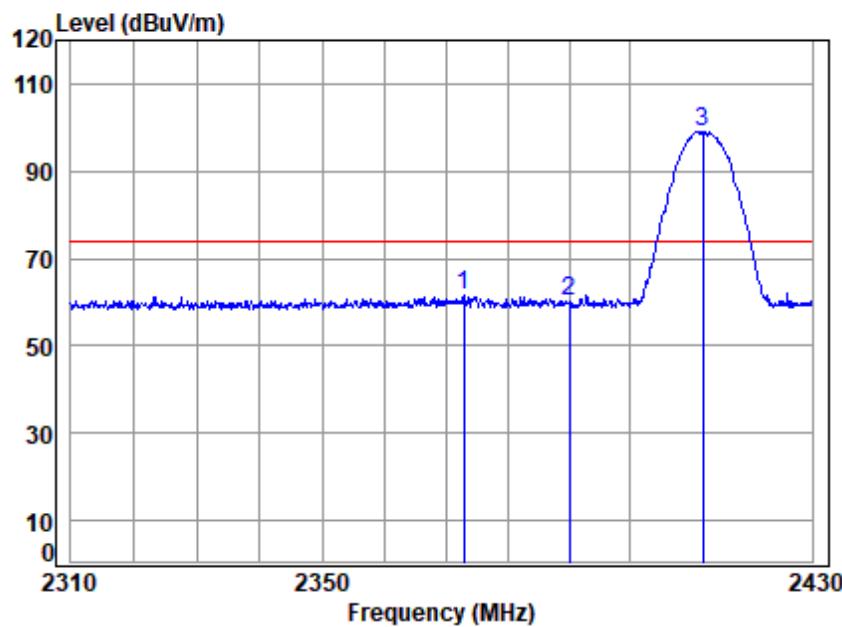
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2372.843	4.32	28.49	40.41	69.13	61.53	74.00	-12.47	Peak
2	2390.000	4.34	28.52	40.42	67.61	60.05	74.00	-13.95	Peak
3 *	2412.000	4.38	28.56	40.43	106.57	99.08	74.00	25.08	Peak

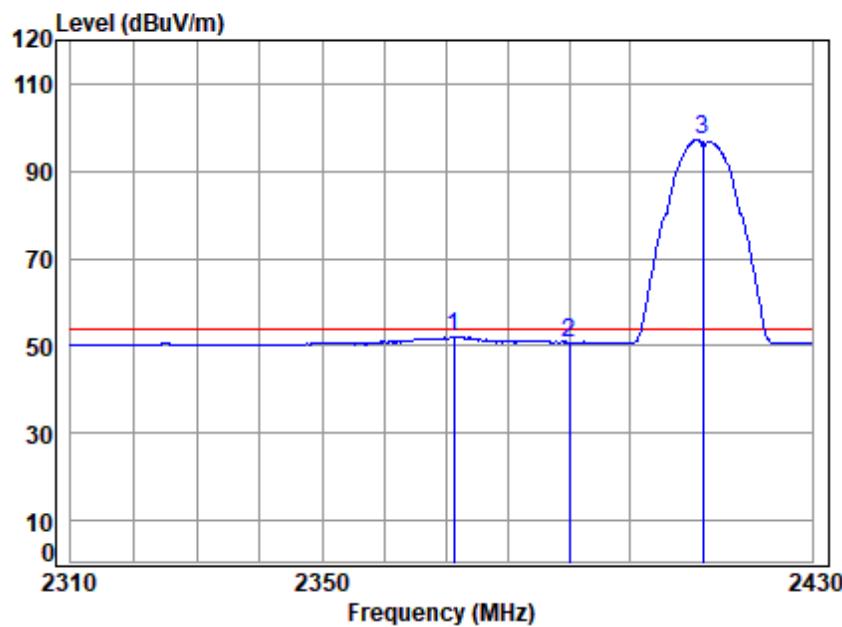
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2371.281	4.31	28.49	40.41	59.73	52.12	54.00	-1.88 Average
2	2390.000	4.34	28.52	40.42	58.24	50.68	54.00	-3.32 Average
3 *	2412.000	4.38	28.56	40.43	104.71	97.22	54.00	43.22 Average

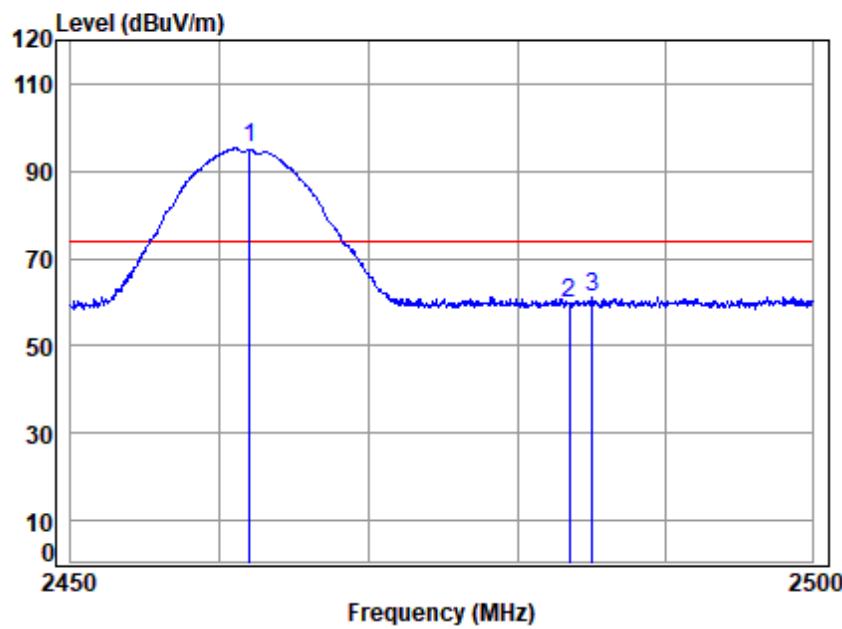
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	102.60	95.24	74.00	21.24 peak
2	2483.500	4.49	28.67	40.47	67.22	59.91	74.00	-14.09 peak
3	2485.044	4.50	28.68	40.47	68.66	61.37	74.00	-12.63 peak

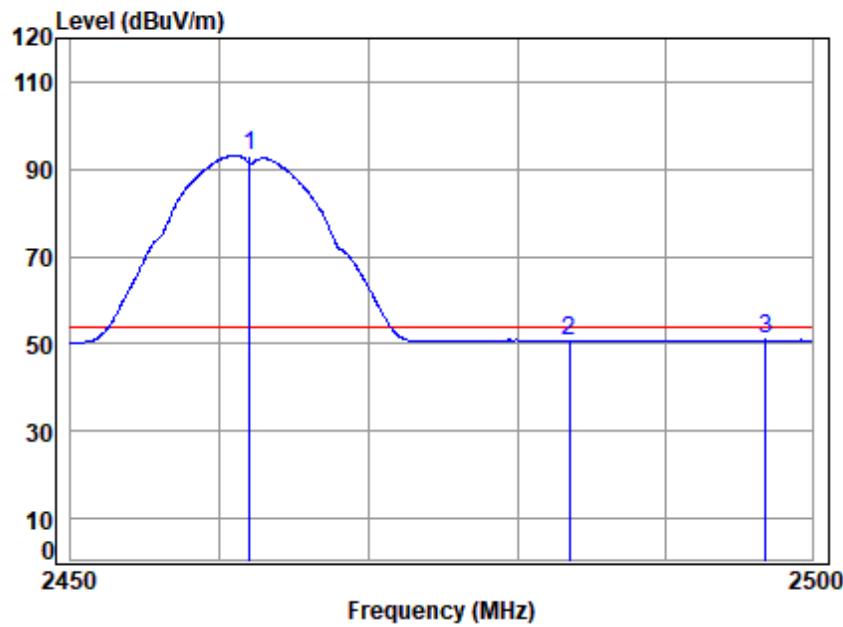
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	100.59	93.23	54.00	39.23 Average
2	2483.500	4.49	28.67	40.47	57.94	50.63	54.00	-3.37 Average
3	2496.820	4.52	28.69	40.47	58.14	50.88	54.00	-3.12 Average

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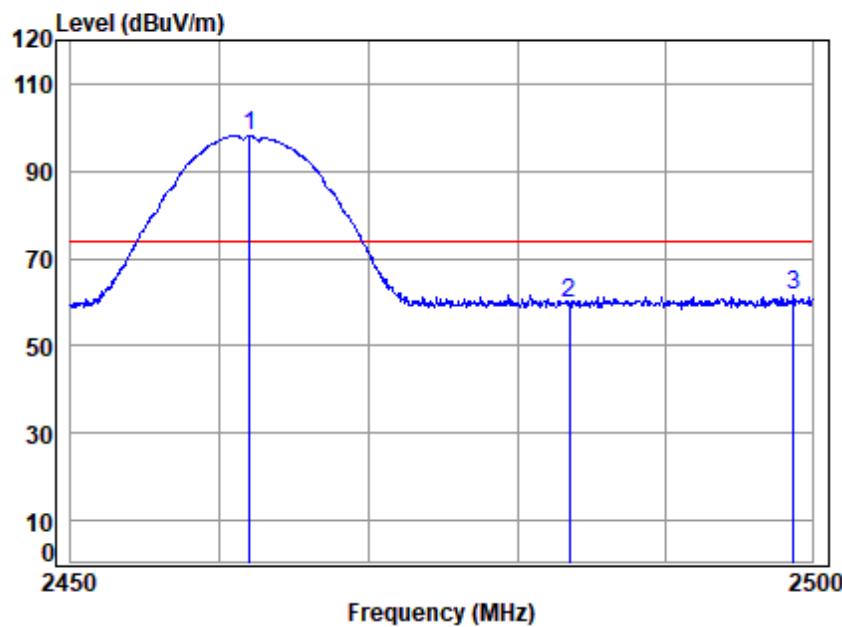
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	40.46	105.66	98.30	74.00	24.30 Peak
2	2483.500	4.49	28.67	40.47	66.96	59.65	74.00	-14.35 Peak
3	2498.738	4.52	28.70	40.47	68.72	61.47	74.00	-12.53 Peak

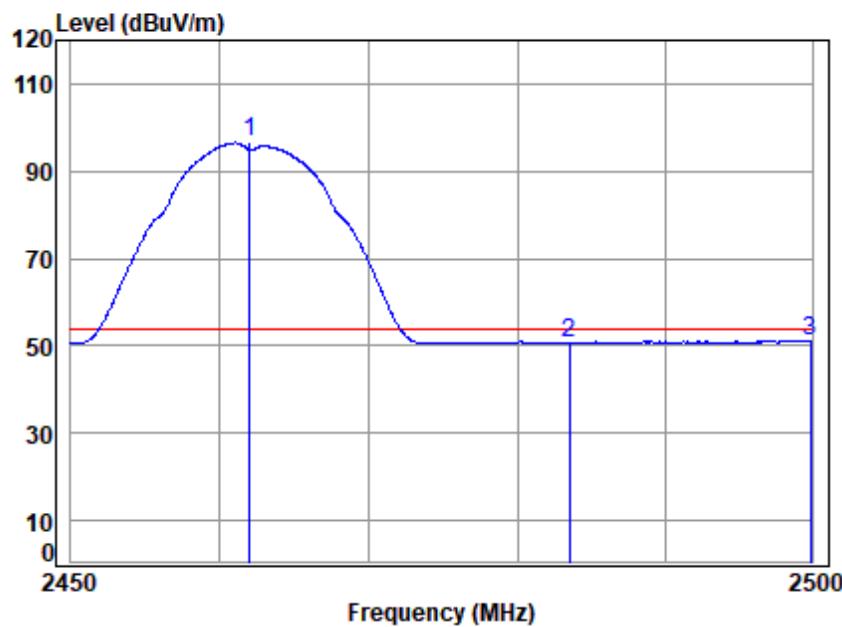
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
	MHz				dBuV/m			
1 *	2462.000	4.46	28.64	40.46	103.88	96.52	54.00	42.52 Average
2	2483.500	4.49	28.67	40.47	57.98	50.67	54.00	-3.33 Average
3	2499.899	4.52	28.70	40.48	58.56	51.30	54.00	-2.70 Average

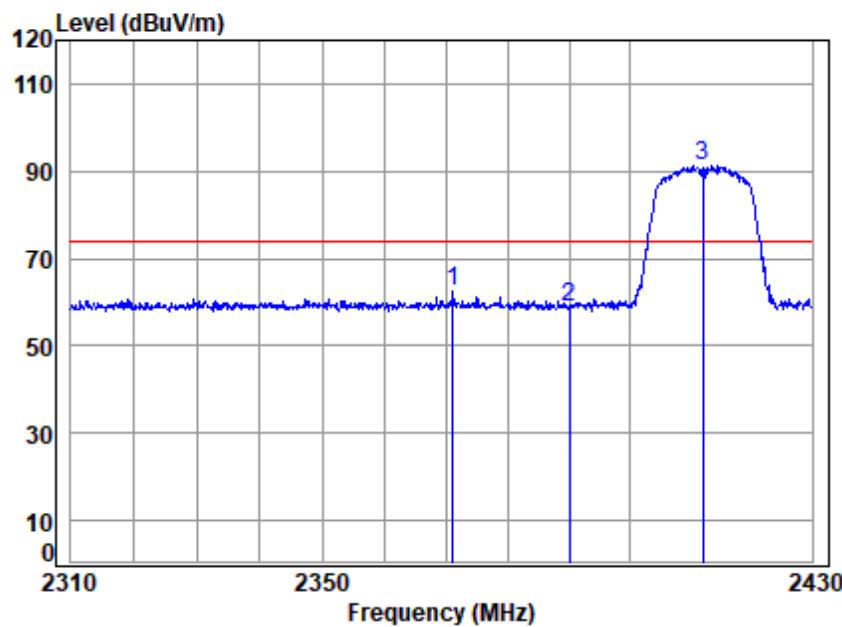
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2371.041	4.31	28.49	40.41	70.12	62.51	74.00	-11.49	peak
2	2390.000	4.34	28.52	40.42	66.43	58.87	74.00	-15.13	peak
3 *	2412.000	4.38	28.56	40.43	98.60	91.11	74.00	17.11	peak

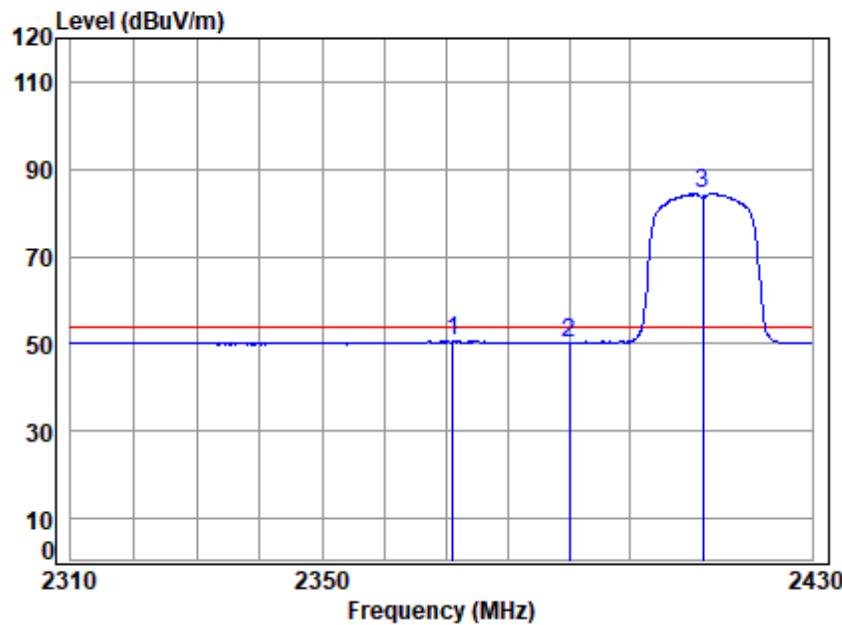
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2371.161	4.31	28.49	40.41	58.22	50.61	54.00	-3.39 Average
2	2390.000	4.34	28.52	40.42	57.87	50.31	54.00	-3.69 Average
3 *	2412.000	4.38	28.56	40.43	91.87	84.38	54.00	30.38 Average

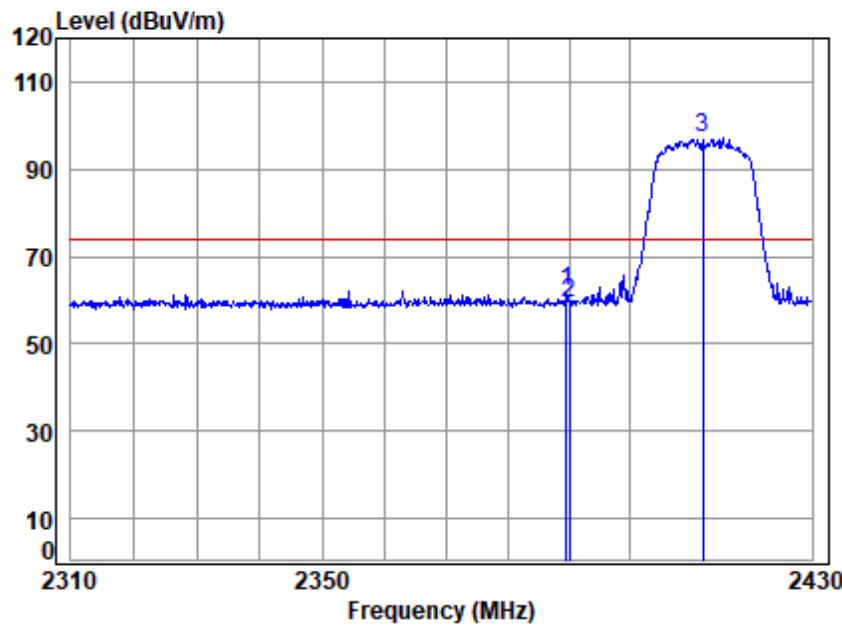
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.605	4.34	28.52	40.42	69.73	62.17	74.00	-11.83 Peak
2	2390.000	4.34	28.52	40.42	67.09	59.53	74.00	-14.47 Peak
3 *	2412.000	4.38	28.56	40.43	104.68	97.19	74.00	23.19 Peak

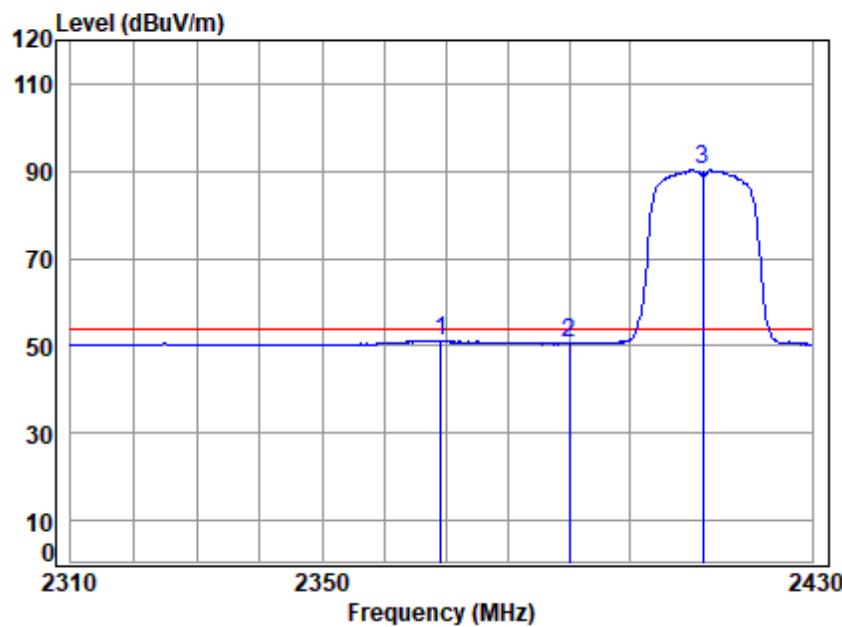
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Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2369.240	4.31	28.48	40.41	58.92	51.30	54.00	-2.70 Average
2	2390.000	4.34	28.52	40.42	58.07	50.51	54.00	-3.49 Average
3 *	2412.000	4.38	28.56	40.43	98.05	90.56	54.00	36.56 Average

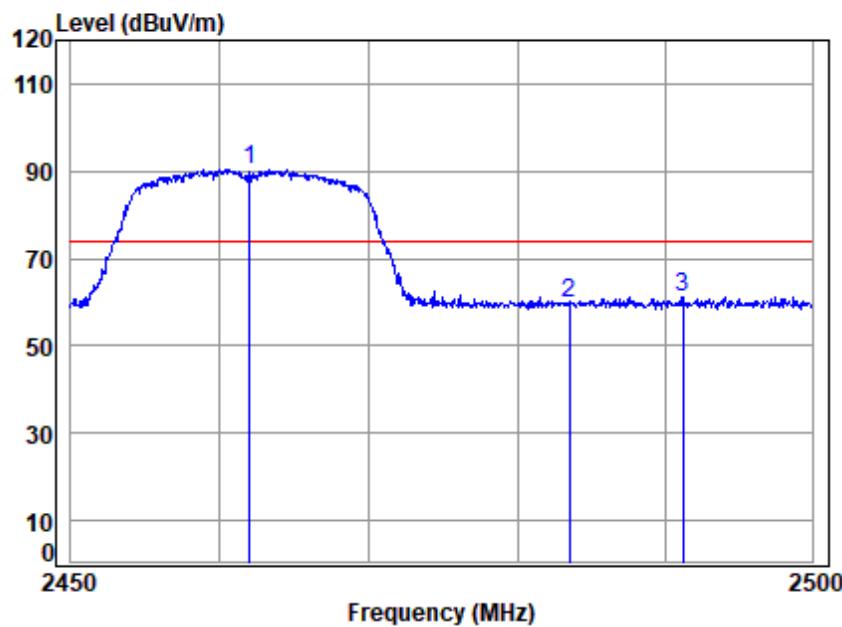
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	97.82	90.46	74.00 16.46 peak
2	2483.500	4.49	28.67	40.47	67.18	59.87	74.00 -14.13 peak
3	2491.227	4.51	28.69	40.47	68.50	61.23	74.00 -12.77 peak

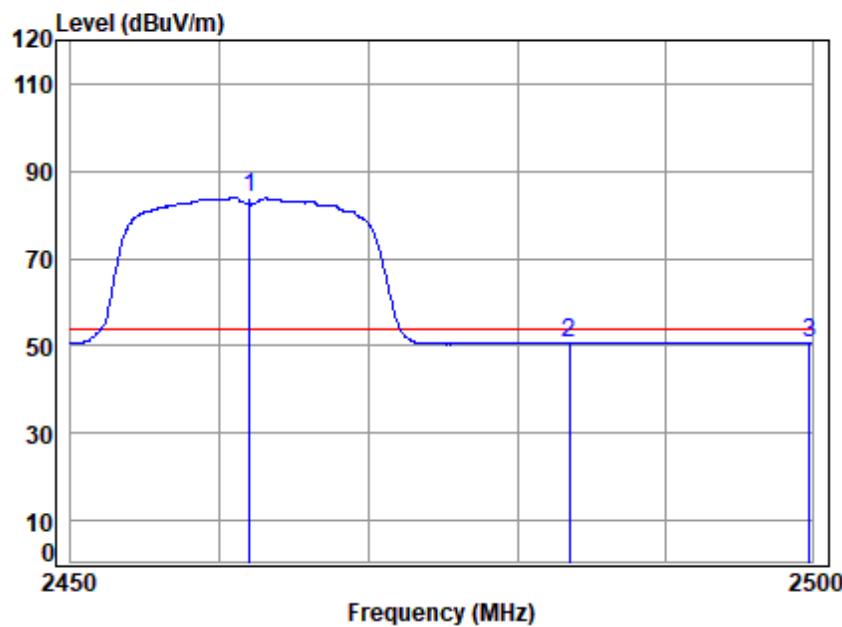
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	40.46	91.24	83.88	54.00	29.88 Average
2	2483.500	4.49	28.67	40.47	57.82	50.51	54.00	-3.49 Average
3	2499.848	4.52	28.70	40.48	58.11	50.85	54.00	-3.15 Average

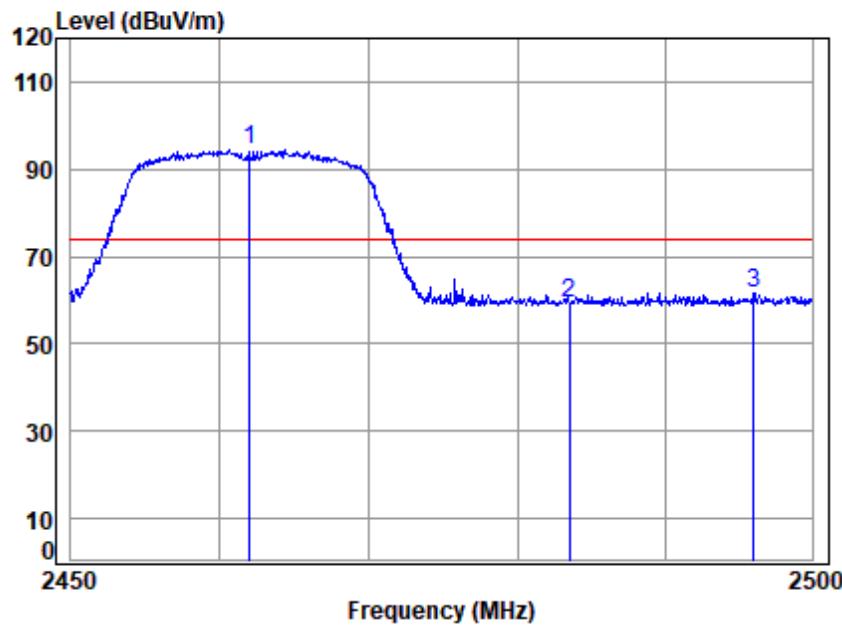
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	101.63	94.27	74.00 20.27 Peak
2	2483.500	4.49	28.67	40.47	66.64	59.33	74.00 -14.67 Peak
3	2496.013	4.51	28.69	40.47	68.93	61.66	74.00 -12.34 Peak



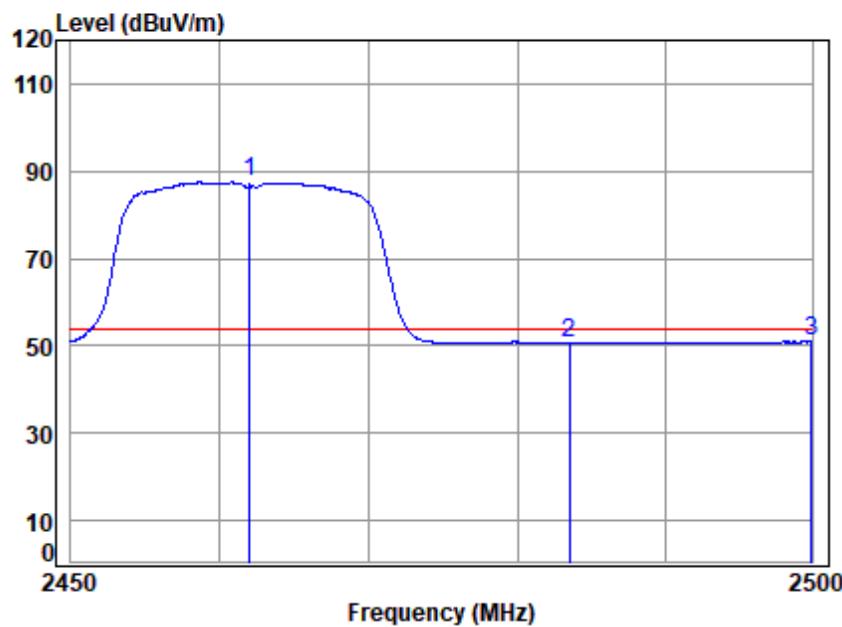
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Site : chamber
Condition: 3m VERTICAL
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Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	40.46	94.77	87.41	54.00	33.41 Average
2	2483.500	4.49	28.67	40.47	58.00	50.69	54.00	-3.31 Average
3	2499.949	4.52	28.70	40.48	58.30	51.04	54.00	-2.96 Average

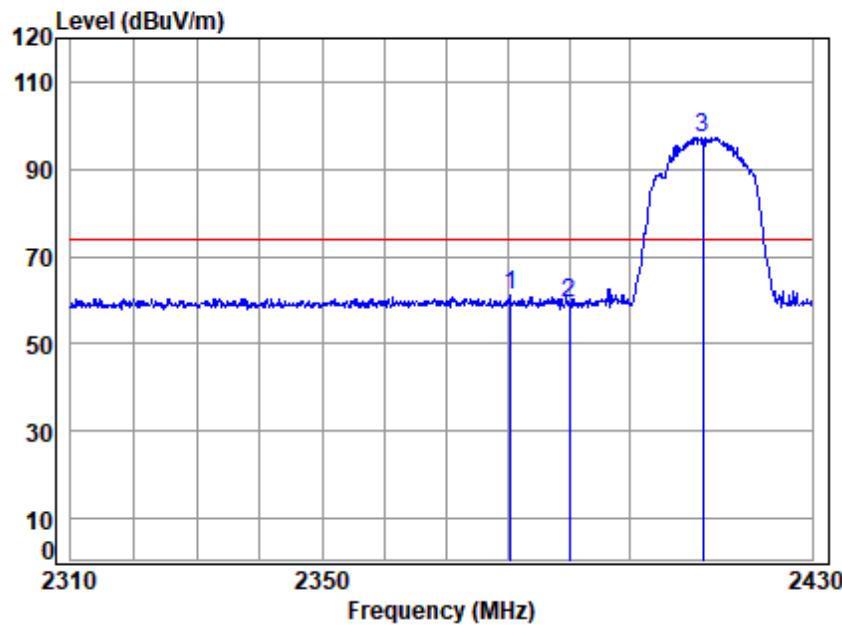
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2380.426	4.33	28.50	40.41	68.94	61.36	74.00	-12.64 peak
2	2390.000	4.34	28.52	40.42	66.73	59.17	74.00	-14.83 peak
3 *	2412.000	4.38	28.56	40.43	104.79	97.30	74.00	23.30 peak

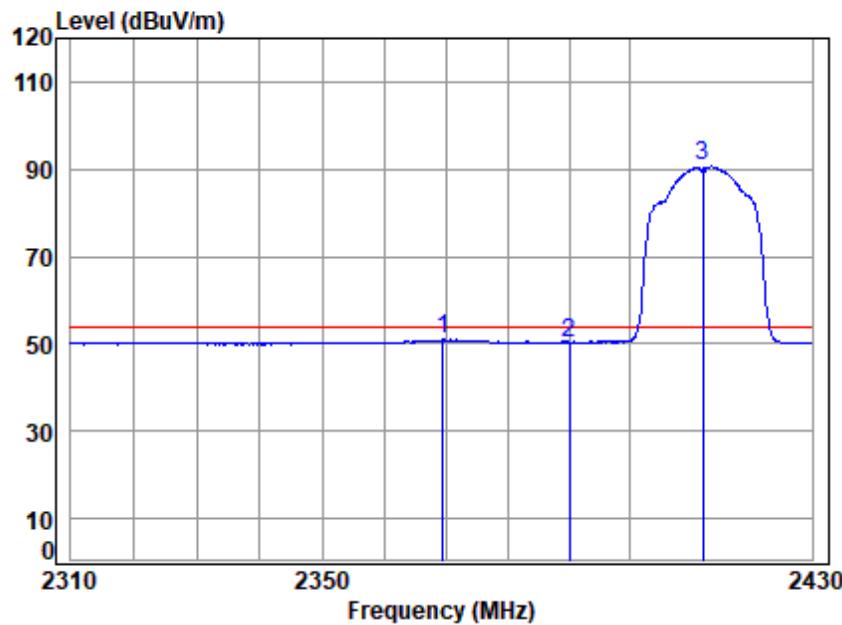
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2369.480	4.31	28.48	40.41	58.56	50.94	54.00	-3.06 Average
2	2390.000	4.34	28.52	40.42	57.96	50.40	54.00	-3.60 Average
3 *	2412.000	4.38	28.56	40.43	98.10	90.61	54.00	36.61 Average



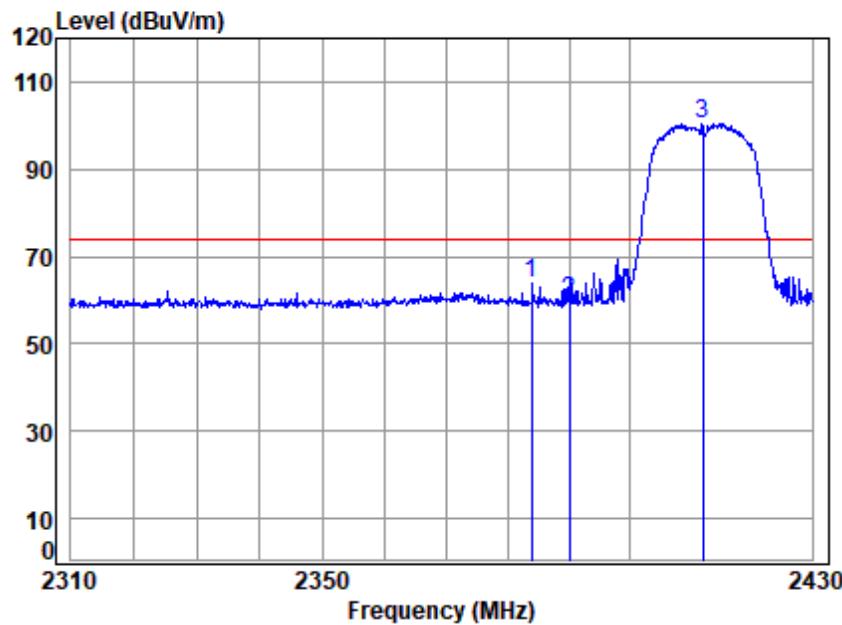
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2383.924	4.33	28.51	40.42	71.49	63.91	74.00	-10.09 Peak
2	2390.000	4.34	28.52	40.42	67.11	59.55	74.00	-14.45 Peak
3 *	2412.000	4.38	28.56	40.43	107.95	100.46	74.00	26.46 Peak



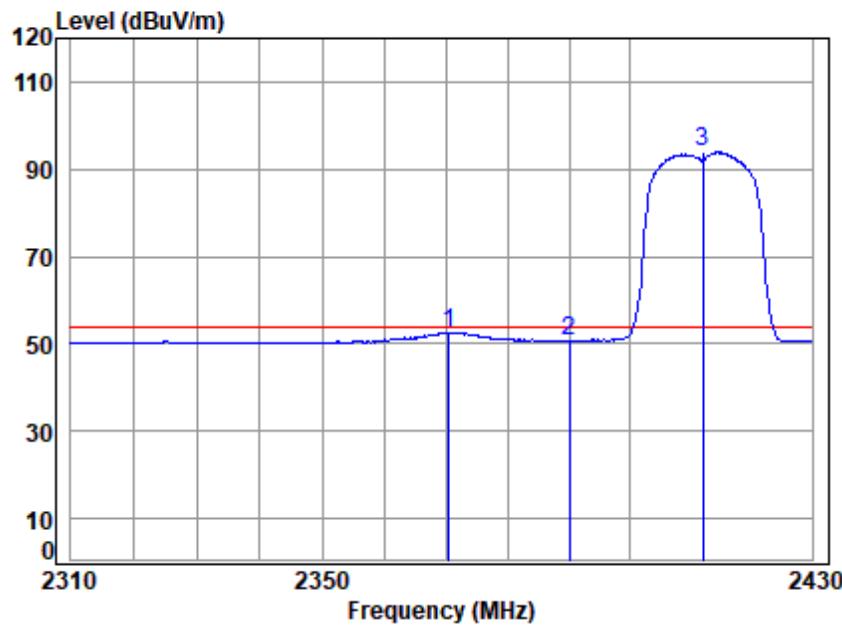
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Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2370.441	4.31	28.49	40.41	60.30	52.69	54.00	-1.31 Average
2	2390.000	4.34	28.52	40.42	58.28	50.72	54.00	-3.28 Average
3 *	2412.000	4.38	28.56	40.43	101.39	93.90	54.00	39.90 Average



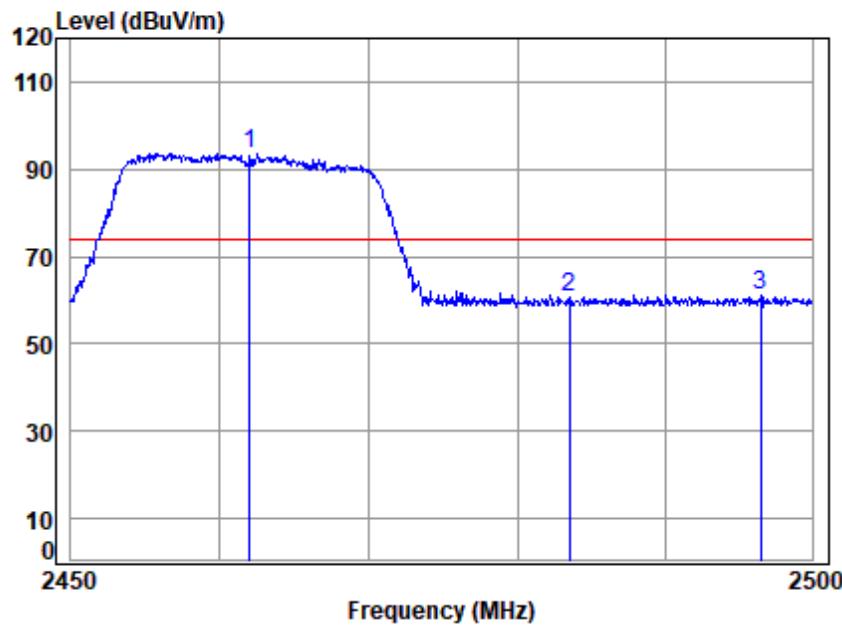
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2462.000	4.46	28.64	40.46	100.84	93.48	74.00	19.48 peak
2 2483.500	4.49	28.67	40.47	67.83	60.52	74.00	-13.48 peak
3 2496.518	4.51	28.69	40.47	68.59	61.32	74.00	-12.68 peak



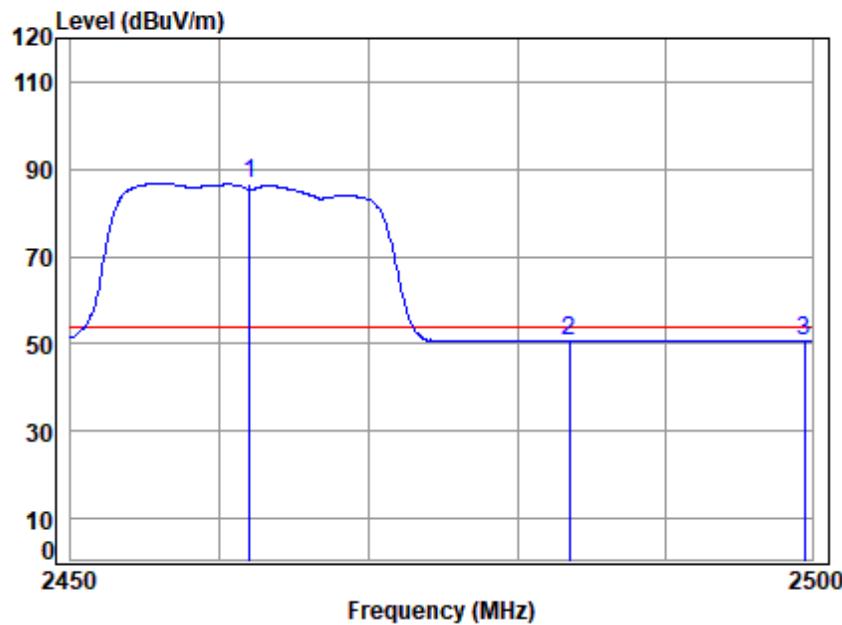
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	94.17	86.81	54.00	32.81 Average
2	2483.500	4.49	28.67	40.47	57.83	50.52	54.00	-3.48 Average
3	2499.495	4.52	28.70	40.47	58.04	50.79	54.00	-3.21 Average

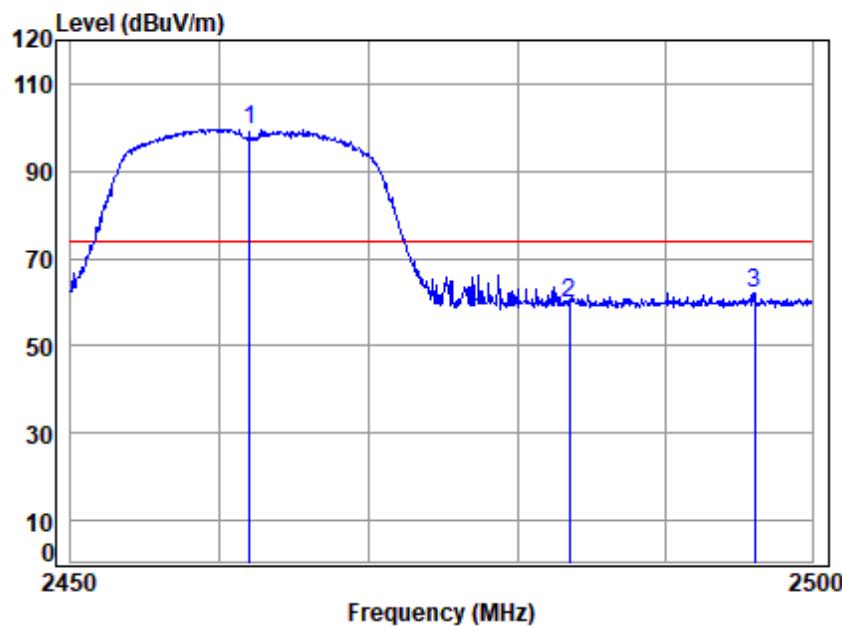
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	107.02	99.66	74.00	25.66 Peak
2	2483.500	4.49	28.67	40.47	67.08	59.77	74.00	-14.23 Peak
3	2496.063	4.51	28.69	40.47	69.38	62.11	74.00	-11.89 Peak

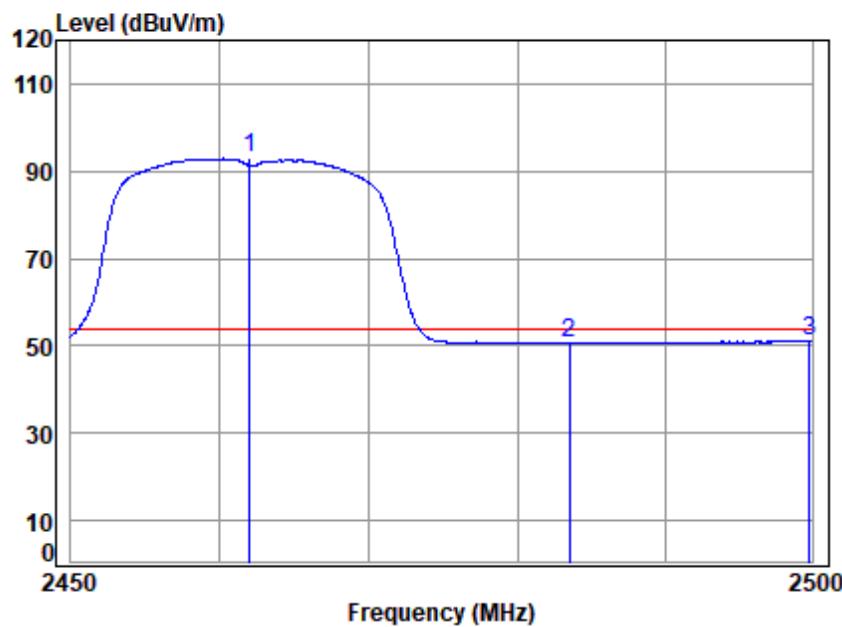
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	40.46	100.22	92.86	54.00	38.86 Average
2	2483.500	4.49	28.67	40.47	57.96	50.65	54.00	-3.35 Average
3	2499.798	4.52	28.70	40.48	58.49	51.23	54.00	-2.77 Average

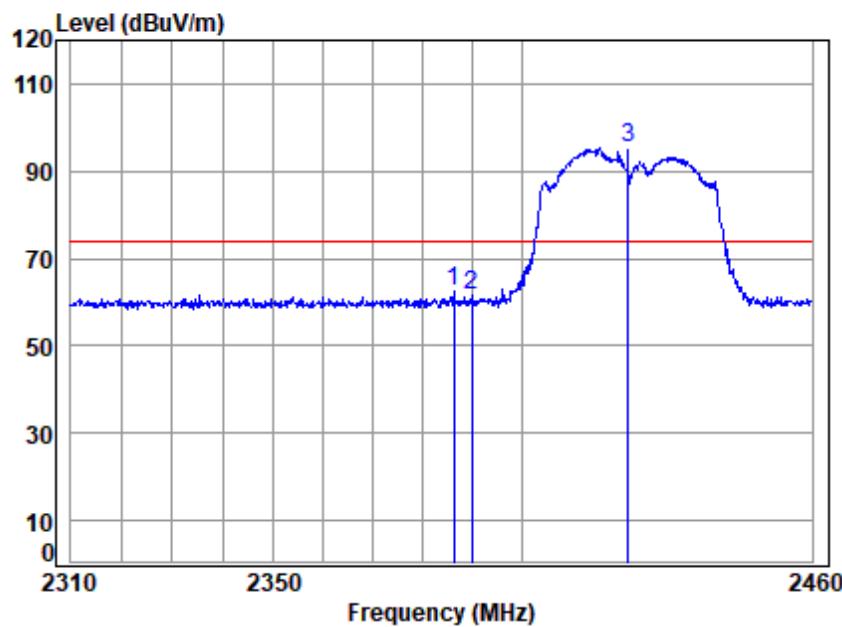
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2386.371	4.34	28.51	40.42	69.98	62.41	74.00	-11.59 peak
2	2390.000	4.34	28.52	40.42	69.22	61.66	74.00	-12.34 peak
3 *	2422.000	4.40	28.57	40.44	102.70	95.23	74.00	21.23 peak

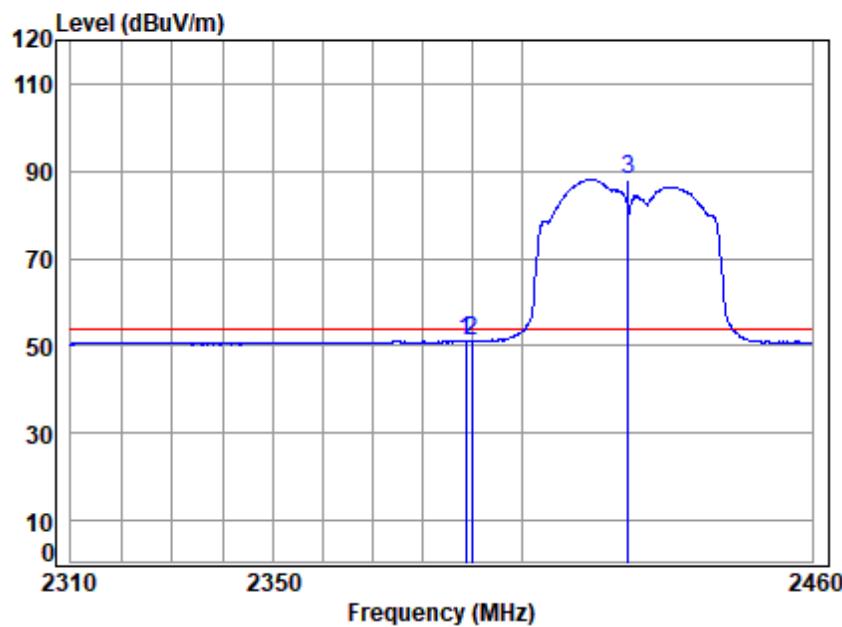
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2422 Band edge
 Note : 2.4G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.775	4.34	28.52	40.42	58.75	51.19	54.00	-2.81 Average
2	2390.000	4.34	28.52	40.42	58.52	50.96	54.00	-3.04 Average
3 *	2422.000	4.40	28.57	40.44	95.57	88.10	54.00	34.10 Average



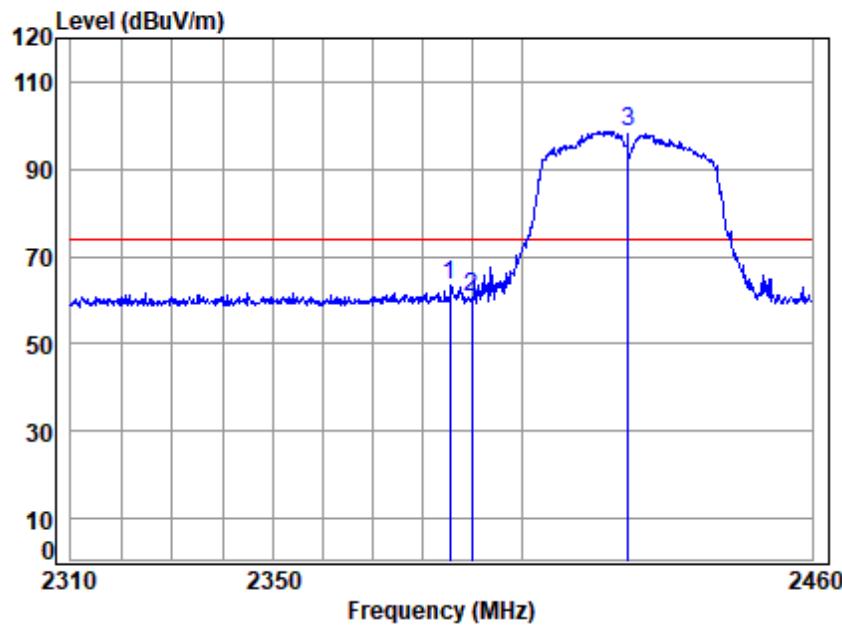
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2422 Band edge
 Note : 2.4G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2385.621	4.34	28.51	40.42	70.99	63.42	74.00	-10.58 Peak
2	2390.000	4.34	28.52	40.42	68.14	60.58	74.00	-13.42 Peak
3 *	2422.000	4.40	28.57	40.44	106.01	98.54	74.00	24.54 Peak



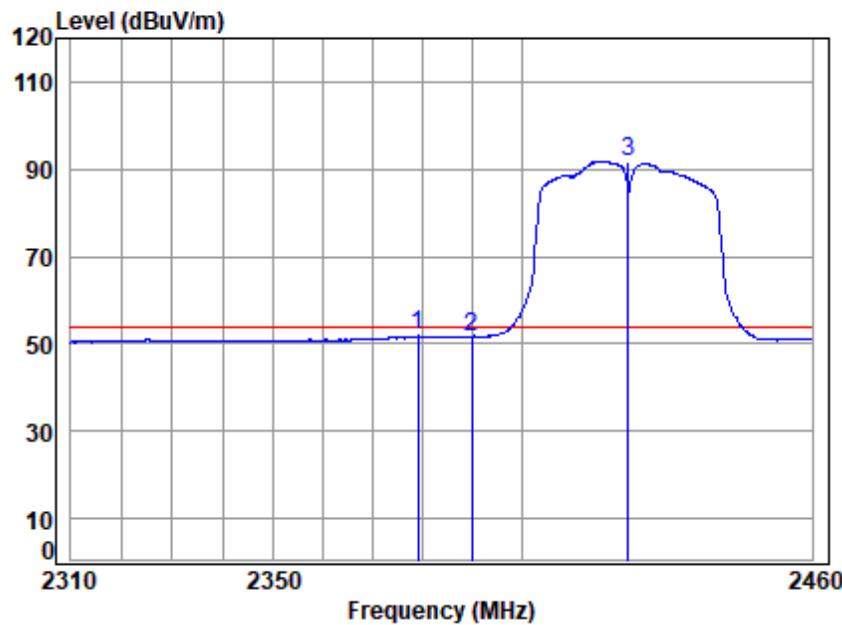
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2422 Band edge
 Note : 2.4G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2379.176	4.33	28.50	40.41	59.39	51.81	54.00	-2.19 Average
2	2390.000	4.34	28.52	40.42	59.13	51.57	54.00	-2.43 Average
3 *	2422.000	4.40	28.57	40.44	99.27	91.80	54.00	37.80 Average

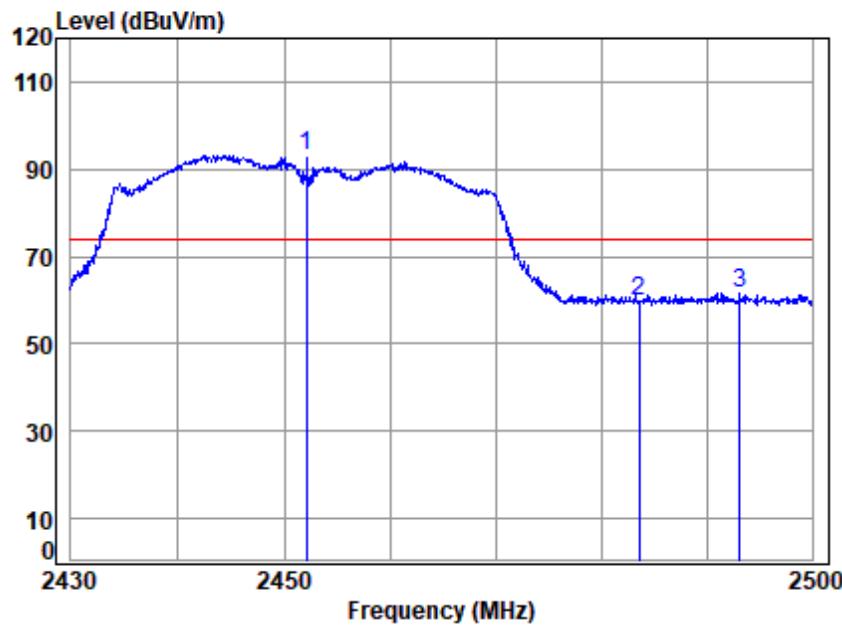
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2452.000	4.44	28.62	40.45	100.43	93.04	74.00	19.04 peak
2 2483.500	4.49	28.67	40.47	67.05	59.74	74.00	-14.26 peak
3 2493.123	4.51	28.69	40.47	68.94	61.67	74.00	-12.33 peak

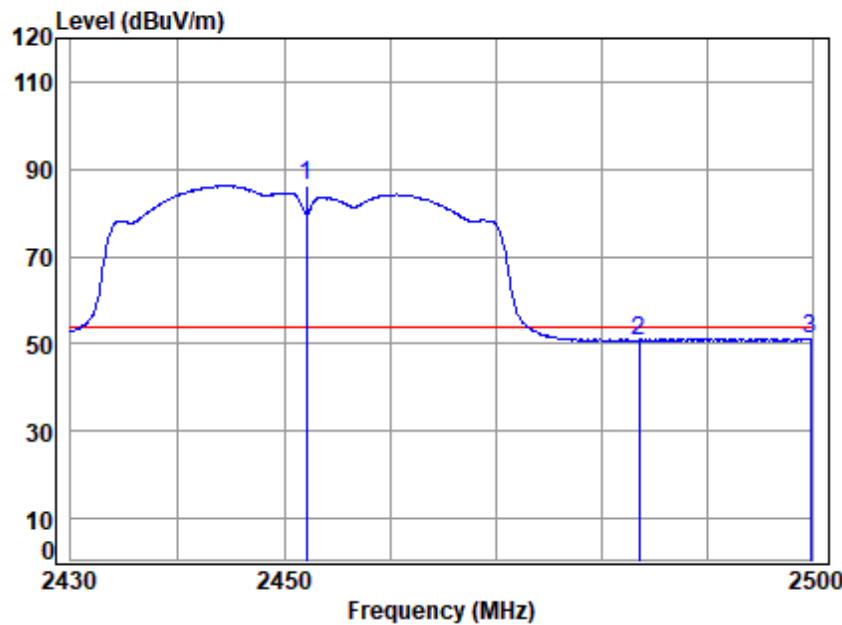
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2452.000	4.44	28.62	40.45	93.64	86.25	54.00	32.25 Average
2 2483.500	4.49	28.67	40.47	58.18	50.87	54.00	-3.13 Average
3 2499.858	4.52	28.70	40.48	58.33	51.07	54.00	-2.93 Average



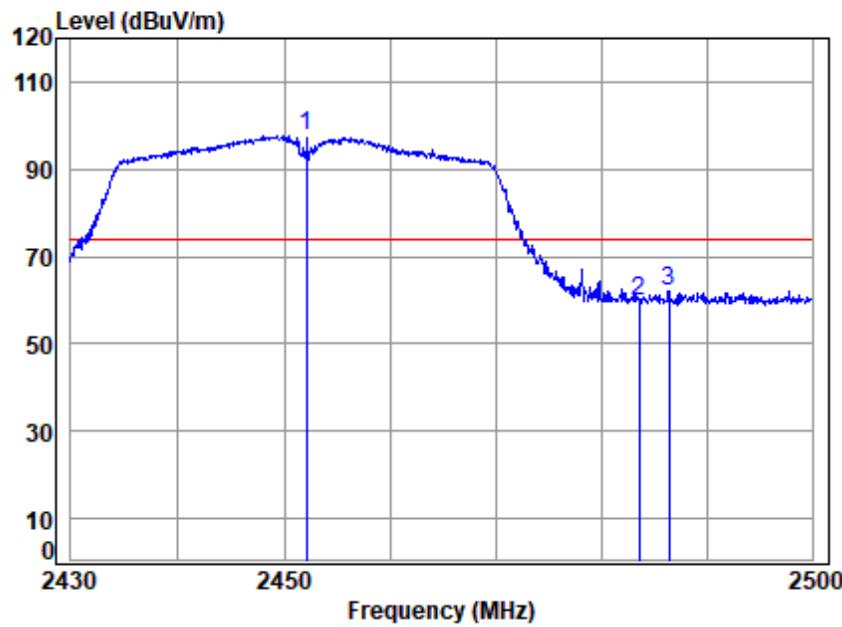
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2452.000	4.44	28.62	40.45	105.15	97.76	74.00	23.76 Peak
2 2483.500	4.49	28.67	40.47	67.11	59.80	74.00	-14.20 Peak
3 2486.335	4.50	28.68	40.47	69.36	62.07	74.00	-11.93 Peak

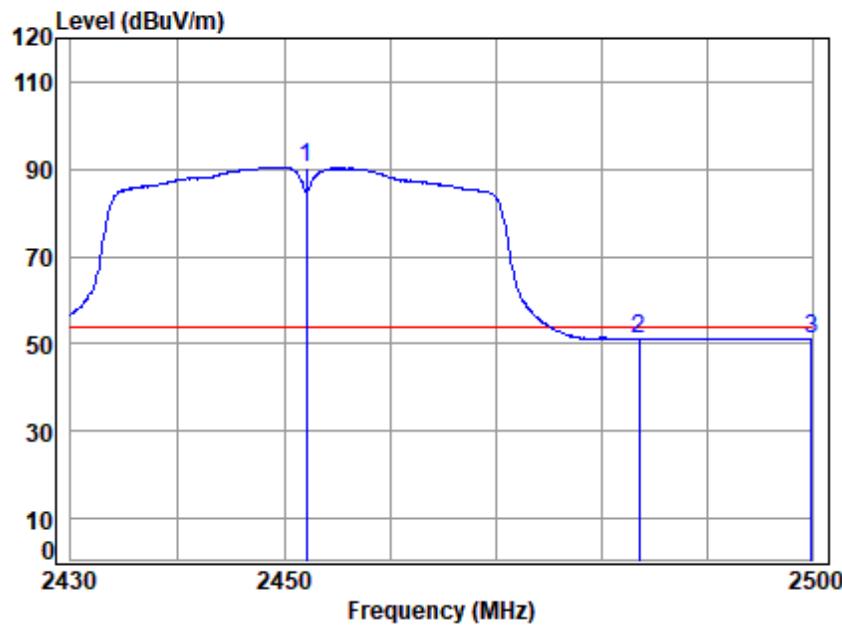
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2452.000	4.44	28.62	40.45	97.91	90.52	54.00	36.52 Average
2 2483.500	4.49	28.67	40.47	58.34	51.03	54.00	-2.97 Average
3 2499.929	4.52	28.70	40.48	58.46	51.20	54.00	-2.80 Average

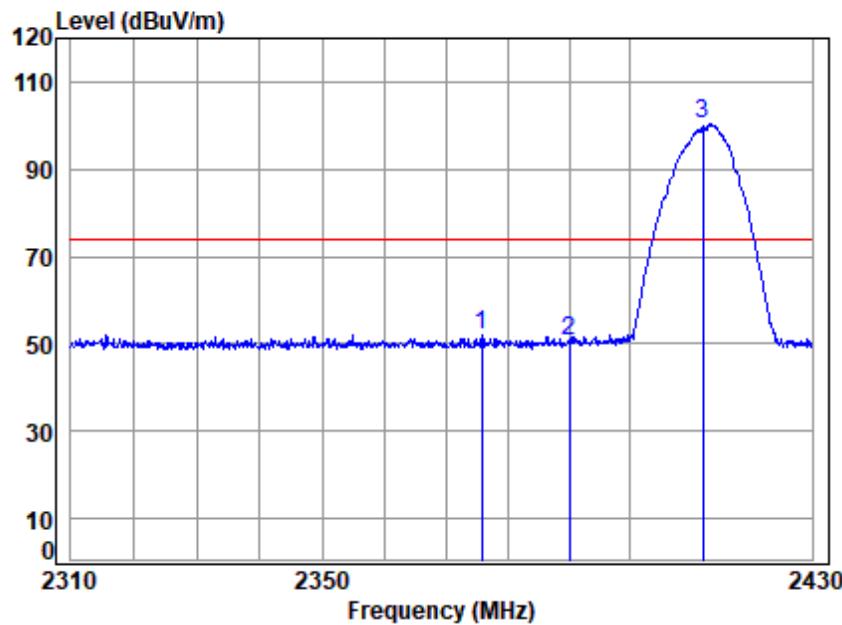


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Test data for Dock WLAN(Station mode, Sinclair Antenna)

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2375.849	4.32	28.49	40.41	59.78	52.18	74.00	-21.82 peak
2	2390.000	4.34	28.52	40.42	58.20	50.64	74.00	-23.36 peak
3 *	2412.000	4.38	28.56	40.43	107.75	100.26	74.00	26.26 peak



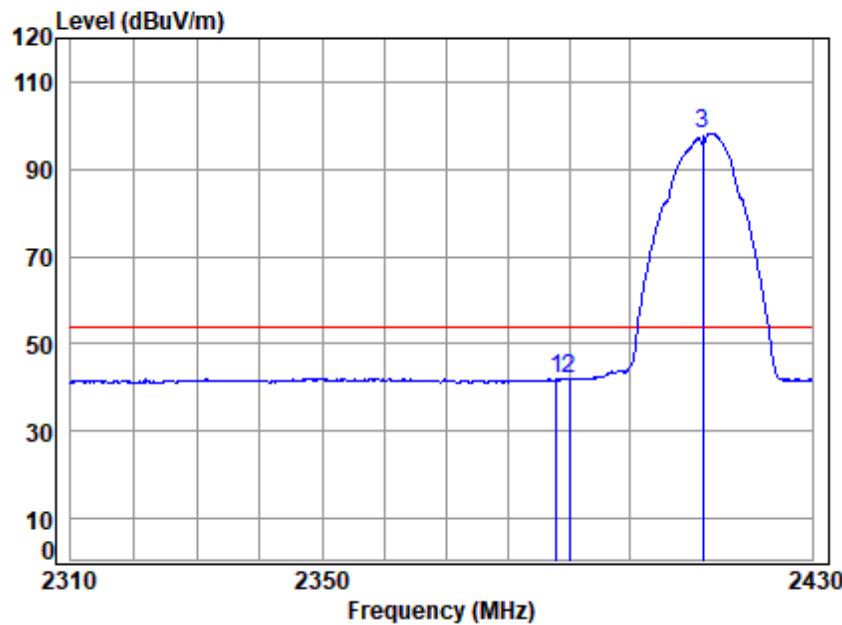
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.912	4.34	28.51	40.42	49.58	42.01	54.00	-11.99 Average
2	2390.000	4.34	28.52	40.42	49.56	42.00	54.00	-12.00 Average
3 *	2412.000	4.38	28.56	40.43	105.79	98.30	54.00	44.30 Average

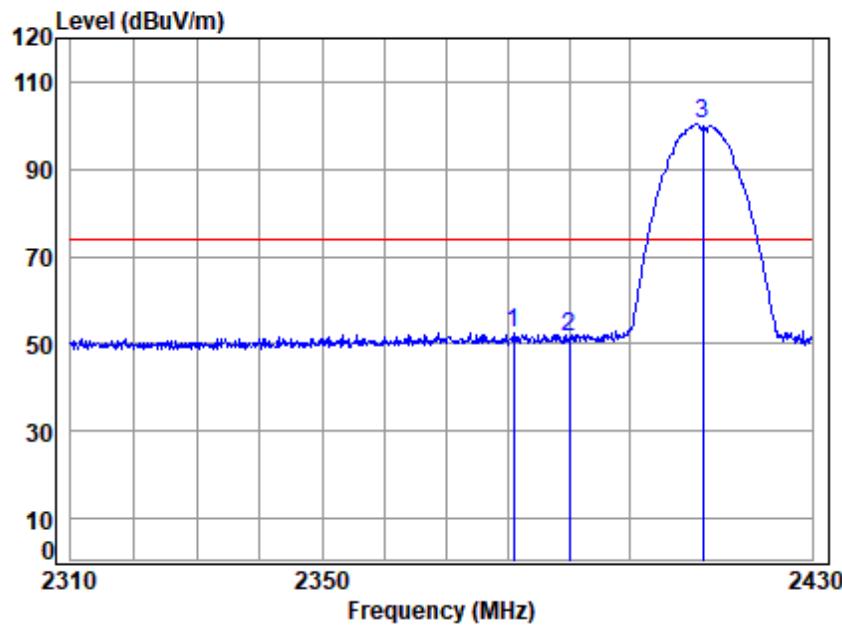
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2381.028	4.33	28.50	40.42	60.15	52.56	74.00	-21.44 Peak
2	2390.000	4.34	28.52	40.42	59.00	51.44	74.00	-22.56 Peak
3 *	2412.000	4.38	28.56	40.43	107.68	100.19	74.00	26.19 Peak

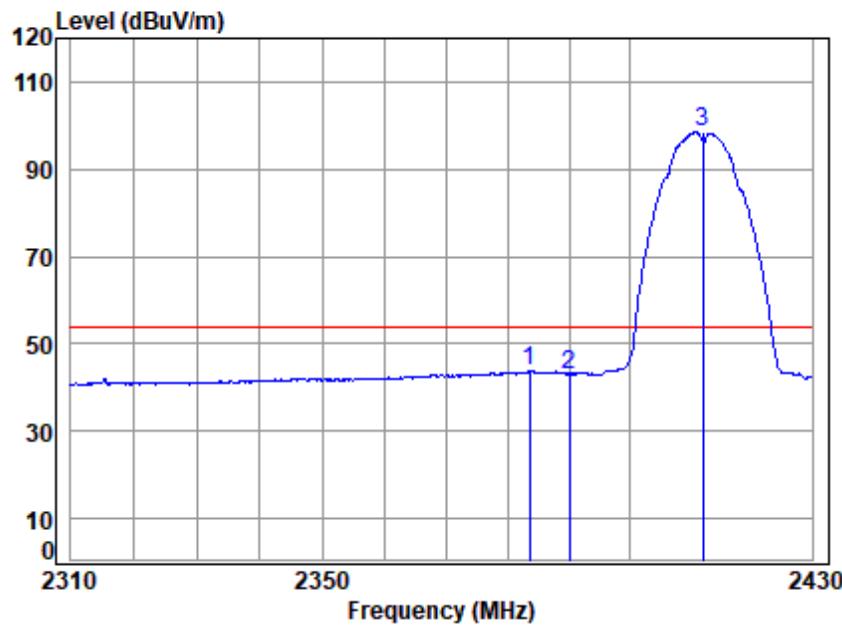
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11B

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2383.562	4.33	28.51	40.42	51.29	43.71	54.00	-10.29 Average
2	2390.000	4.34	28.52	40.42	50.62	43.06	54.00	-10.94 Average
3 *	2412.000	4.38	28.56	40.43	105.89	98.40	54.00	44.40 Average



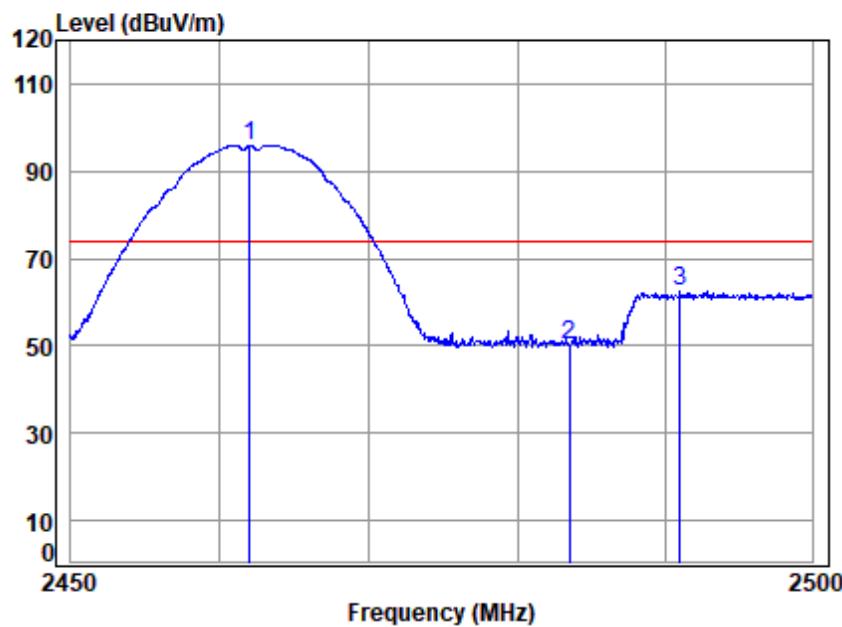
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2462.000	4.46	28.64	40.46	103.35	95.99	74.00	21.99 peak
2 2483.500	4.49	28.67	40.47	57.71	50.40	74.00	-23.60 peak
3 2491.026	4.51	28.69	40.47	69.95	62.68	74.00	-11.32 peak

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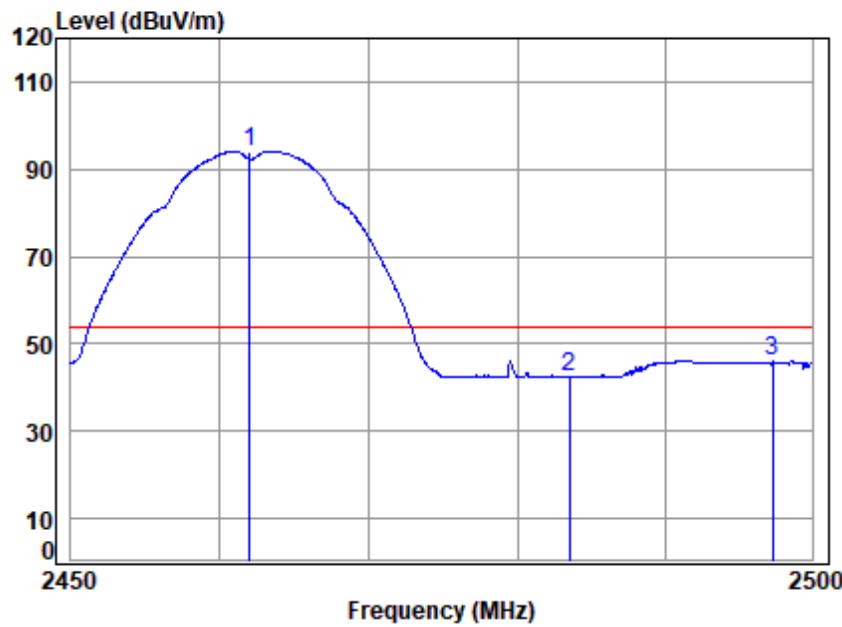


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	101.52	94.16	54.00 40.16 Average
2	2483.500	4.49	28.67	40.47	49.84	42.53	54.00 -11.47 Average
3	2497.324	4.52	28.70	40.47	53.54	46.29	54.00 -7.71 Peak

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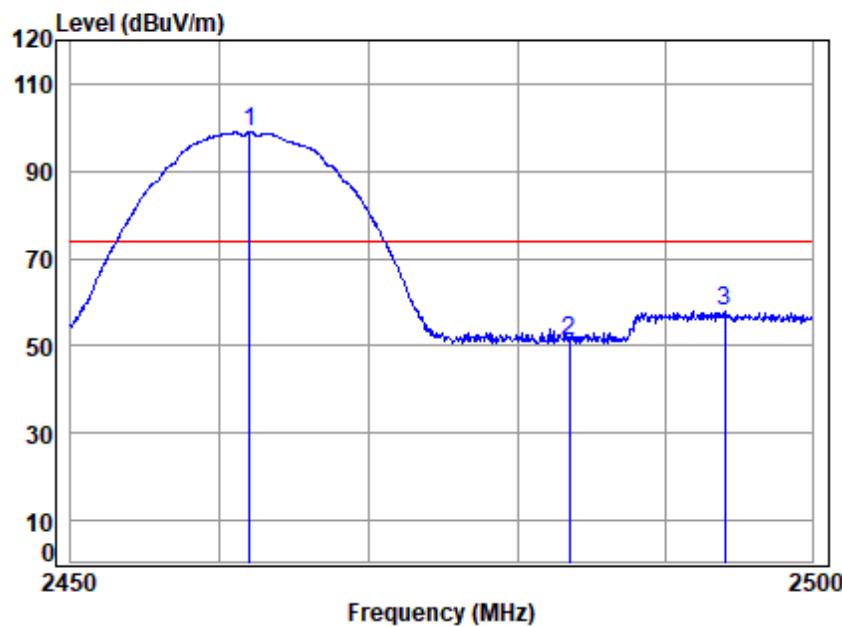
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 2462.000	4.46	28.64	40.46	106.32	98.96	74.00	24.96	Peak
2 2483.500	4.49	28.67	40.47	58.51	51.20	74.00	-22.80	Peak
3 2494.047	4.51	28.69	40.47	65.34	58.07	74.00	-15.93	Peak

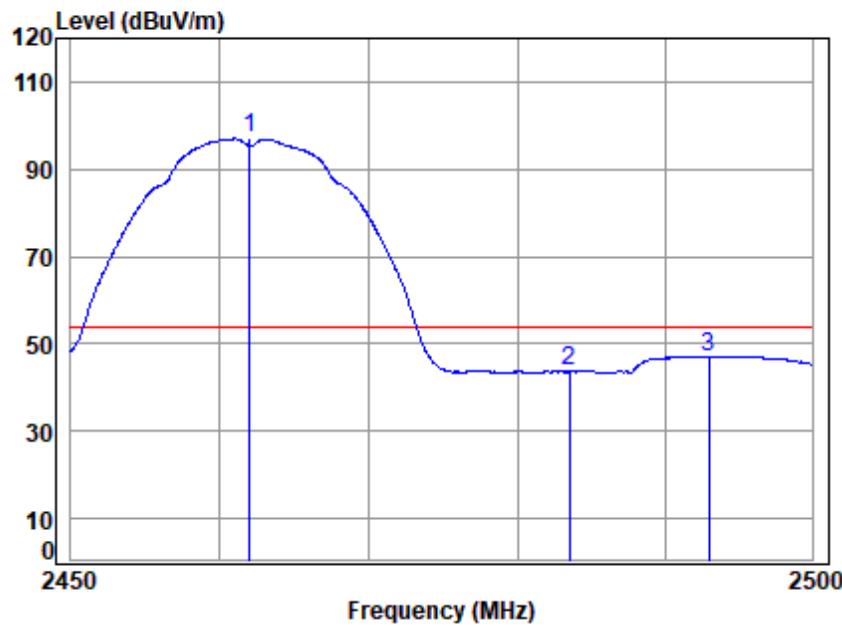
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 2462.000	4.46	28.64	40.46	104.35	96.99	54.00	42.99	Average
2 2483.500	4.49	28.67	40.47	50.92	43.61	54.00	-10.39	Average
3 2492.990	4.51	28.69	40.47	54.44	47.17	54.00	-6.83	Average

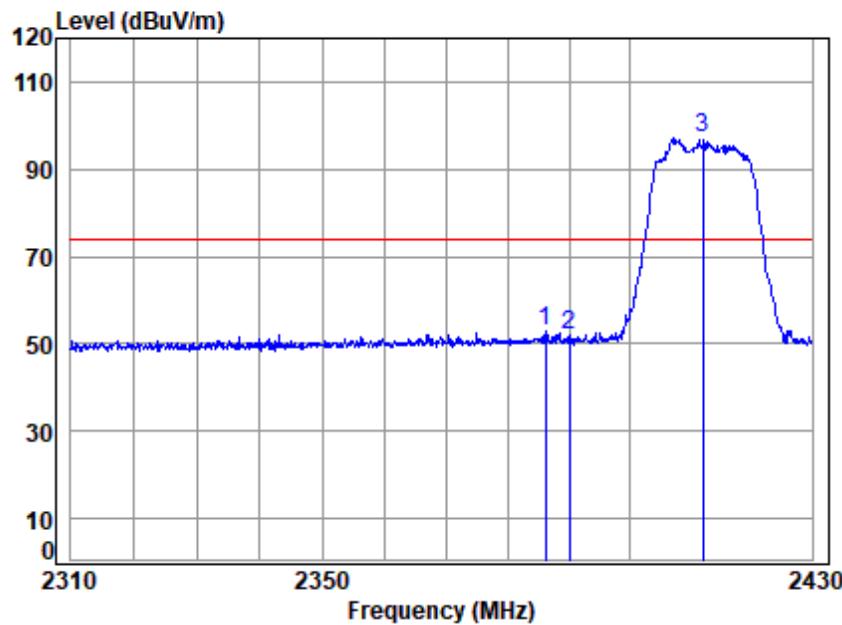
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2386.098	4.34	28.51	40.42	60.54	52.97	74.00	-21.03 peak
2	2390.000	4.34	28.52	40.42	59.59	52.03	74.00	-21.97 peak
3 *	2412.000	4.38	28.56	40.43	104.50	97.01	74.00	23.01 peak

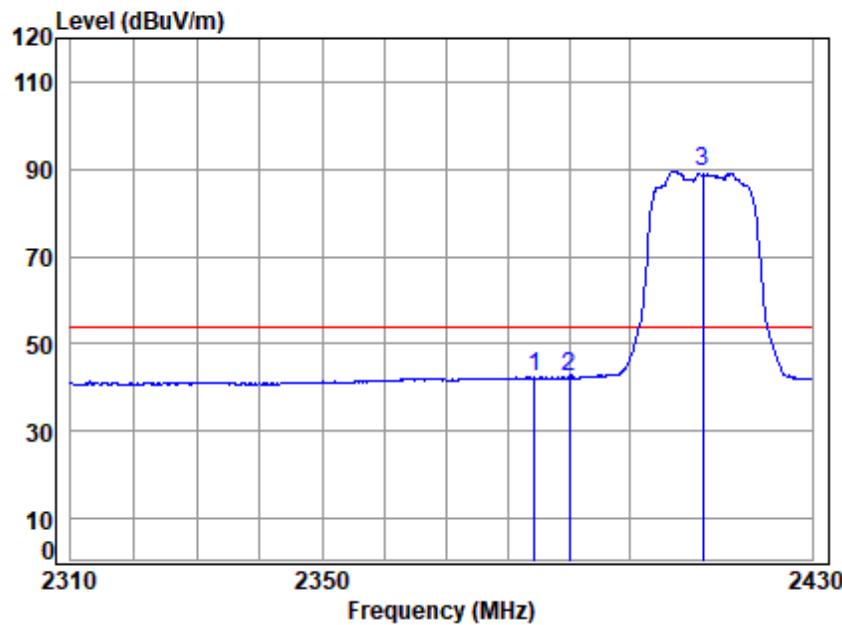
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2384.286	4.34	28.51	40.42	49.85	42.28	54.00	-11.72 Average
2	2390.000	4.34	28.52	40.42	49.82	42.26	54.00	-11.74 Average
3 *	2412.000	4.38	28.56	40.43	97.01	89.52	54.00	35.52 Average

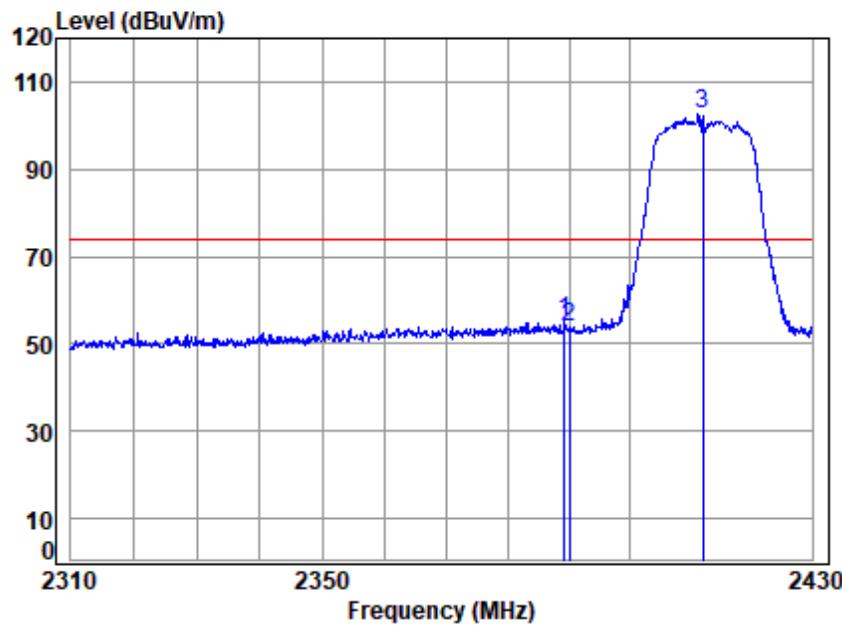
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.242	4.34	28.52	40.42	62.99	55.43	74.00	-18.57 Peak
2	2390.000	4.34	28.52	40.42	61.52	53.96	74.00	-20.04 Peak
3 *	2412.000	4.38	28.56	40.43	110.00	102.51	74.00	28.51 Peak



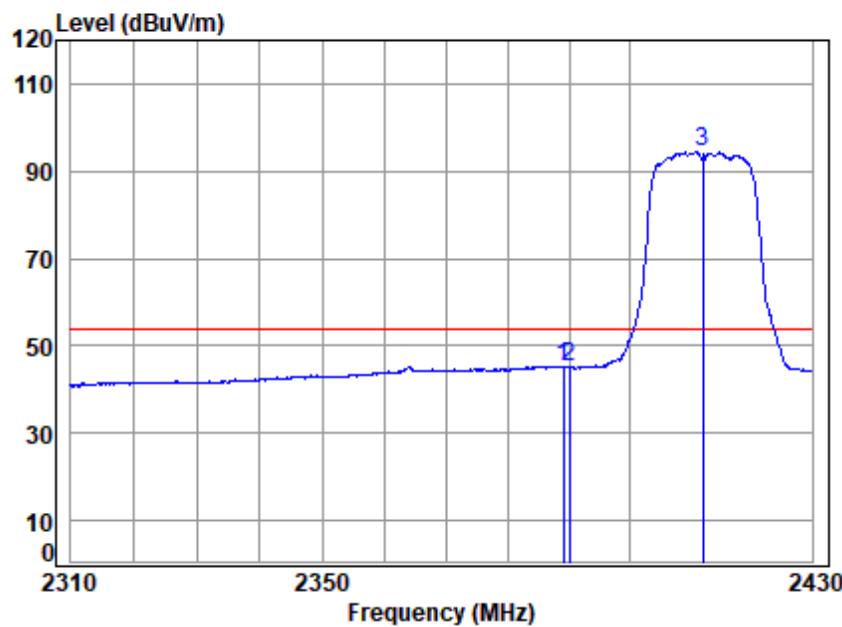
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Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.000	4.34	28.52	40.42	52.90	45.34	54.00	-8.66 Average
2	2390.000	4.34	28.52	40.42	52.84	45.28	54.00	-8.72 Average
3 *	2412.000	4.38	28.56	40.43	101.76	94.27	54.00	40.27 Average

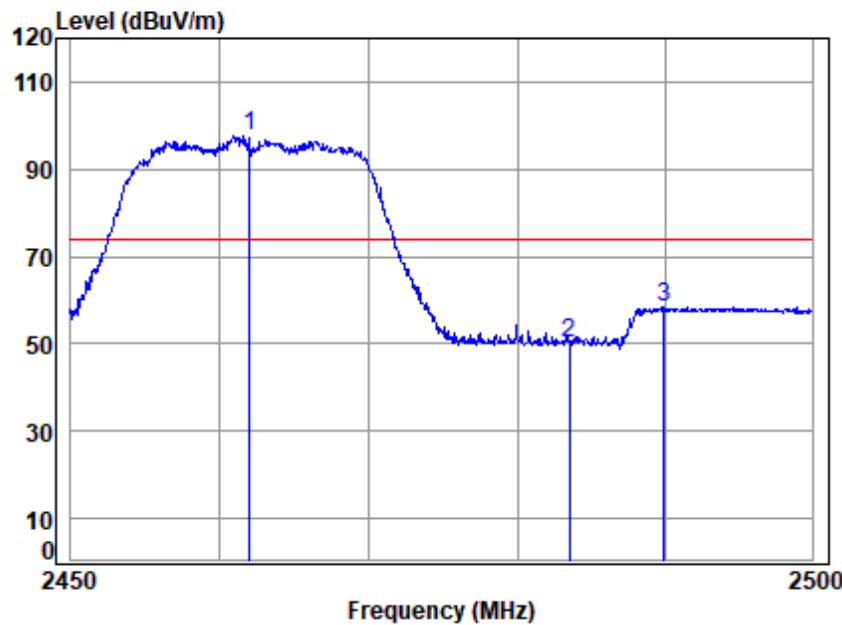
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



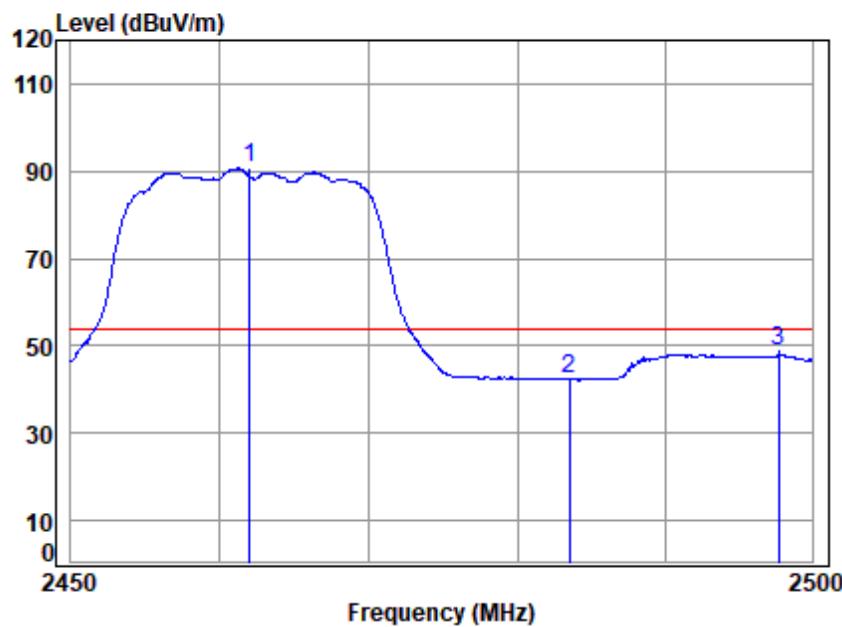
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 2462.000	4.46	28.64	40.46	105.11	97.75	74.00	23.75	peak
2 2483.500	4.49	28.67	40.47	57.59	50.28	74.00	-23.72	peak
3 2489.919	4.50	28.68	40.47	65.78	58.49	74.00	-15.51	Peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
1 *	2462.000	4.46	28.64	40.46	97.95	90.59	54.00	36.59 Average
2	2483.500	4.49	28.67	40.47	49.61	42.30	54.00	-11.70 Average
3	2497.728	4.52	28.70	40.47	55.98	48.73	54.00	-5.27 Peak

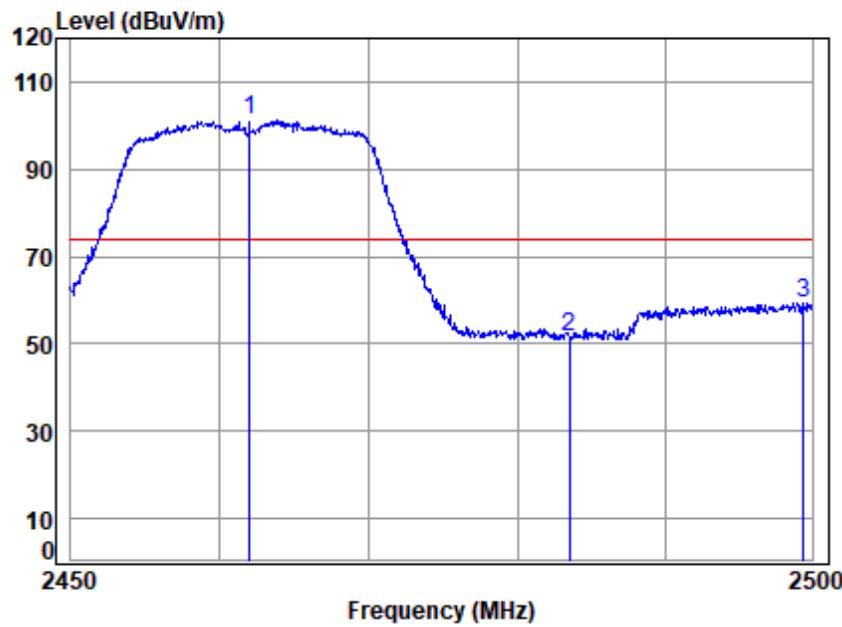
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	108.80	101.44	74.00 27.44 Peak
2	2483.500	4.49	28.67	40.47	58.92	51.61	74.00 -22.39 Peak
3	2499.394	4.52	28.70	40.47	66.79	59.54	74.00 -14.46 Peak

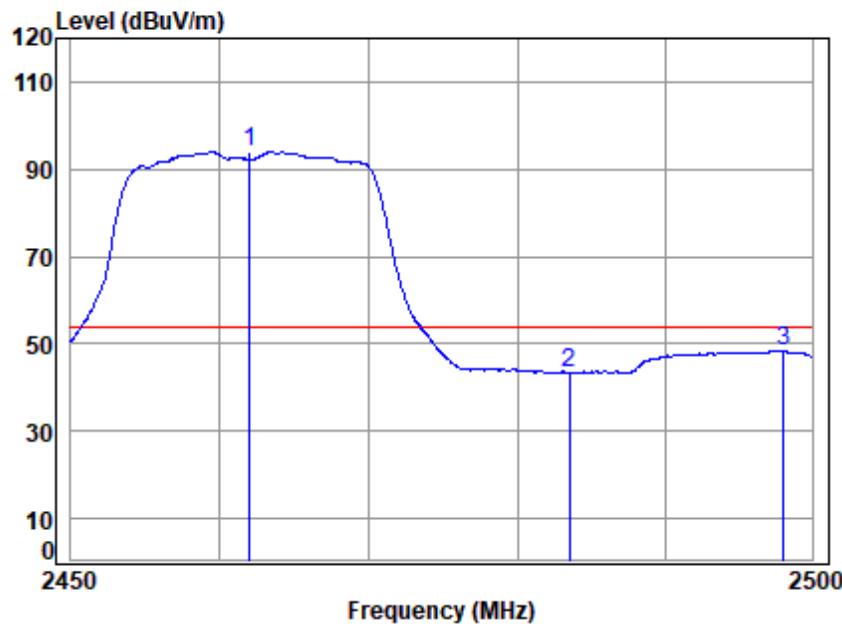
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	101.33	93.97	54.00	39.97 Average
2	2483.500	4.49	28.67	40.47	50.79	43.48	54.00	-10.52 Average
3	2498.031	4.52	28.70	40.47	55.61	48.36	54.00	-5.64 Average

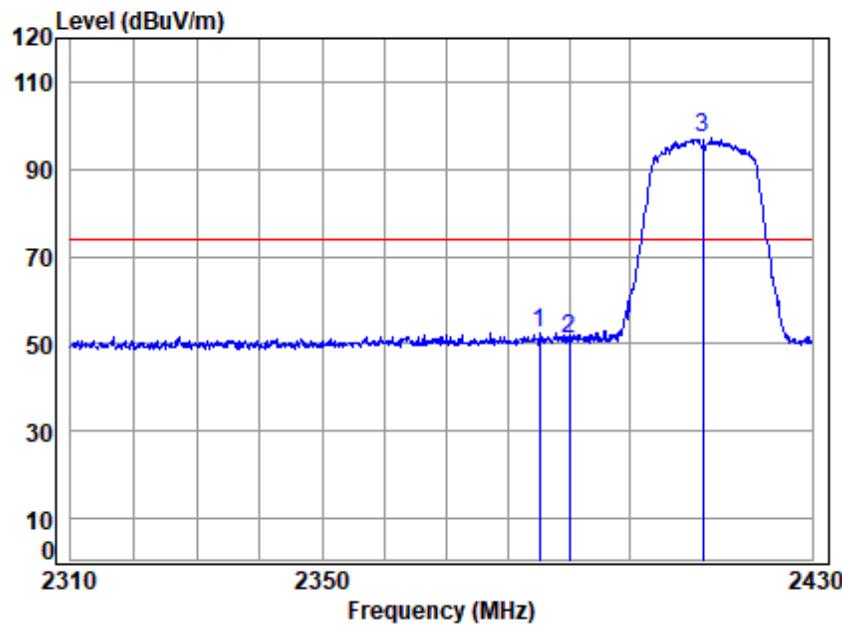
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Limit dB	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.132	4.34	28.51	40.42	60.11	52.54	74.00	-21.46	peak
2	2390.000	4.34	28.52	40.42	58.58	51.02	74.00	-22.98	peak
3 *	2412.000	4.38	28.56	40.43	104.75	97.26	74.00	23.26	peak

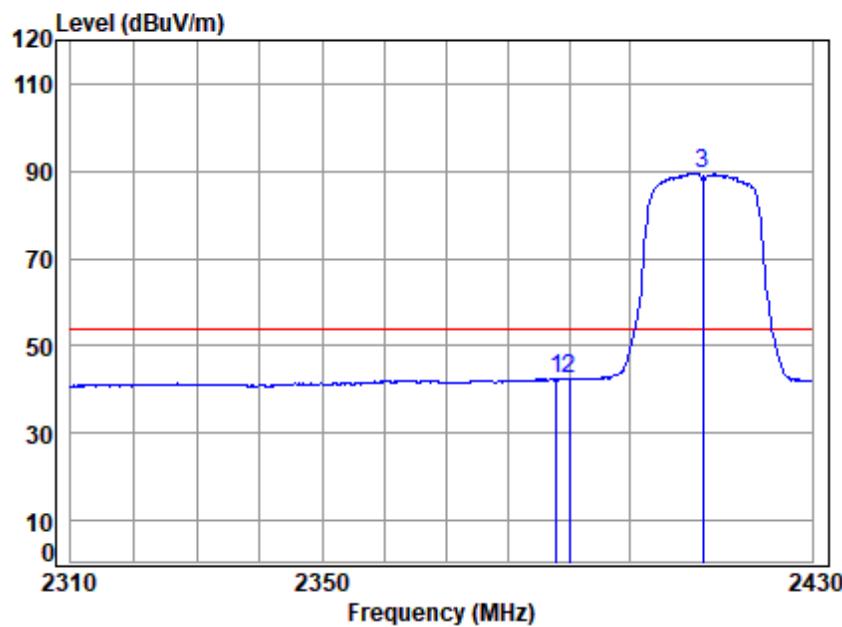
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.912	4.34	28.51	40.42	50.00	42.43	54.00	-11.57 Average
2	2390.000	4.34	28.52	40.42	49.95	42.39	54.00	-11.61 Average
3 *	2412.000	4.38	28.56	40.43	96.98	89.49	54.00	35.49 Average



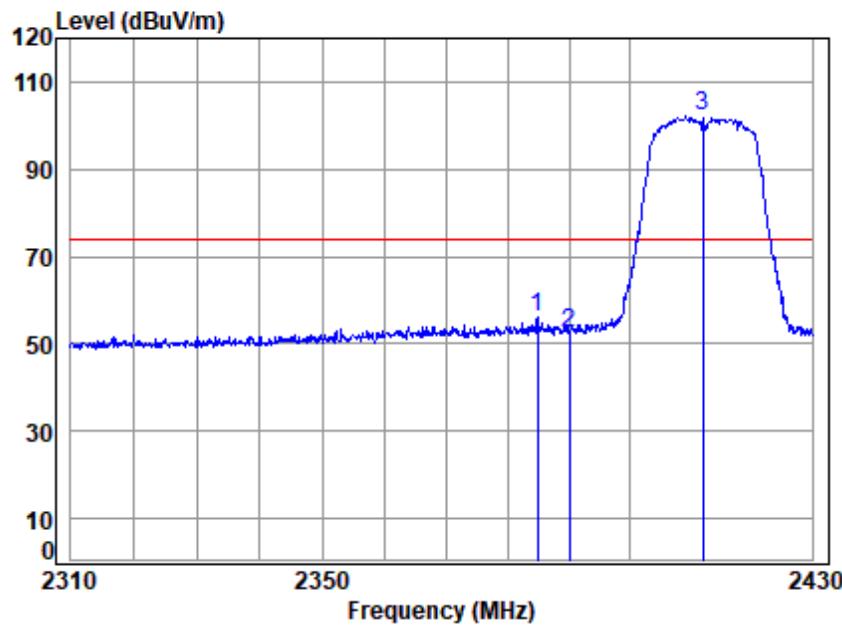
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2384.769	4.34	28.51	40.42	63.72	56.15	74.00	-17.85 Peak
2	2390.000	4.34	28.52	40.42	60.23	52.67	74.00	-21.33 Peak
3 *	2412.000	4.38	28.56	40.43	109.55	102.06	74.00	28.06 Peak

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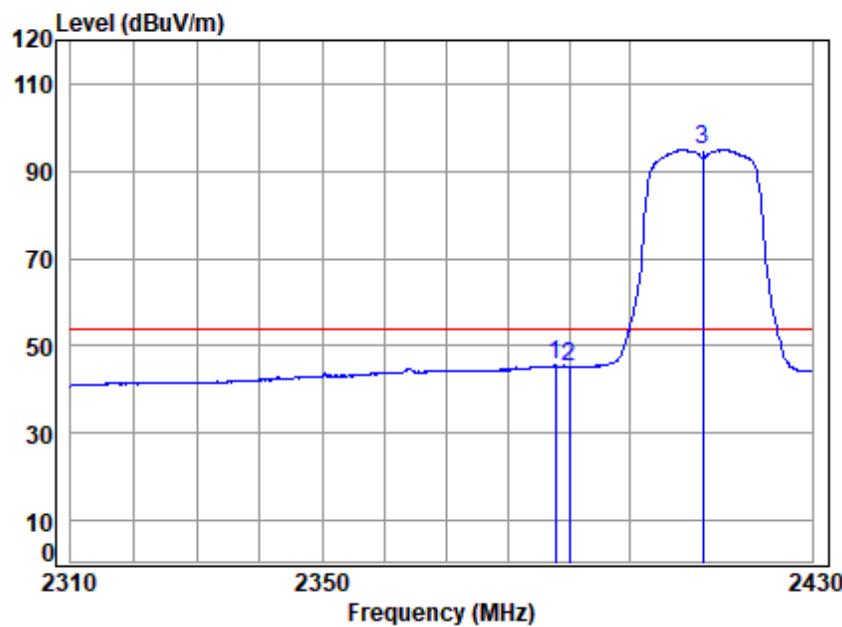
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.791	4.34	28.51	40.42	53.22	45.65	54.00	-8.35 Average
2	2390.000	4.34	28.52	40.42	52.79	45.23	54.00	-8.77 Average
3 *	2412.000	4.38	28.56	40.43	102.42	94.93	54.00	40.93 Average

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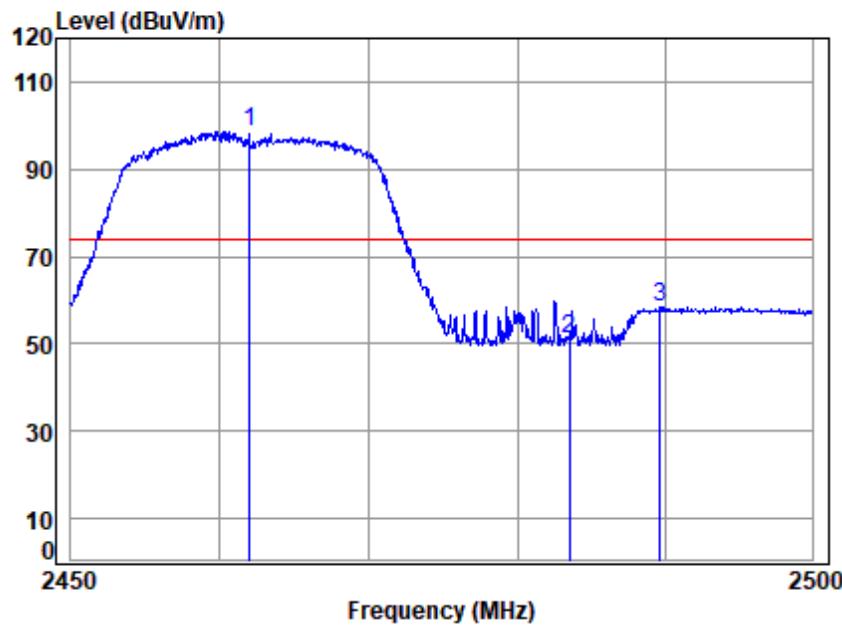
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	105.89	98.53	74.00 24.53 peak
2	2483.500	4.49	28.67	40.47	58.42	51.11	74.00 -22.89 peak
3	2489.667	4.50	28.68	40.47	65.62	58.33	74.00 -15.67 Peak



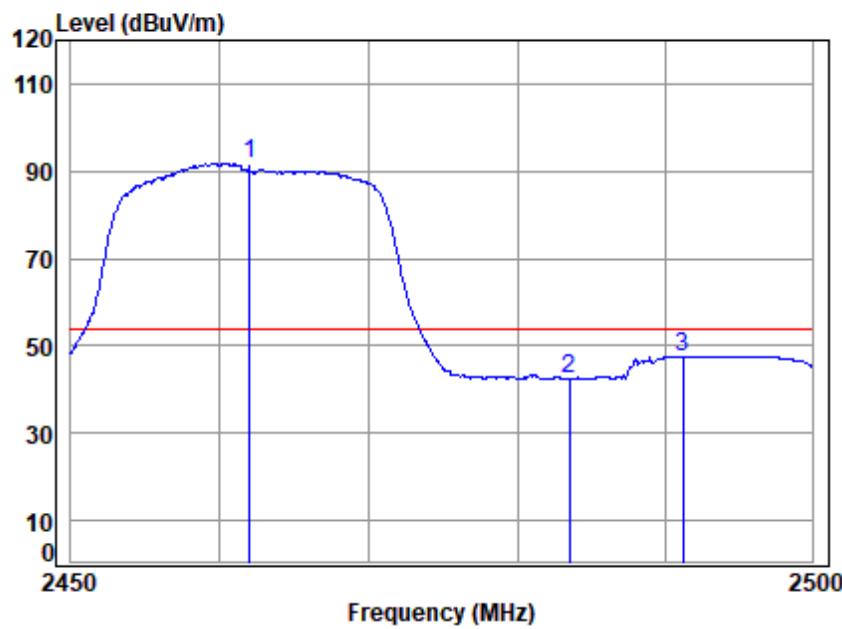
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 *	2462.000	4.46	28.64	40.46	99.18	91.82	54.00	37.82 Average
2	2483.500	4.49	28.67	40.47	49.84	42.53	54.00	-11.47 Average
3	2491.227	4.51	28.69	40.47	54.84	47.57	54.00	-6.43 Peak

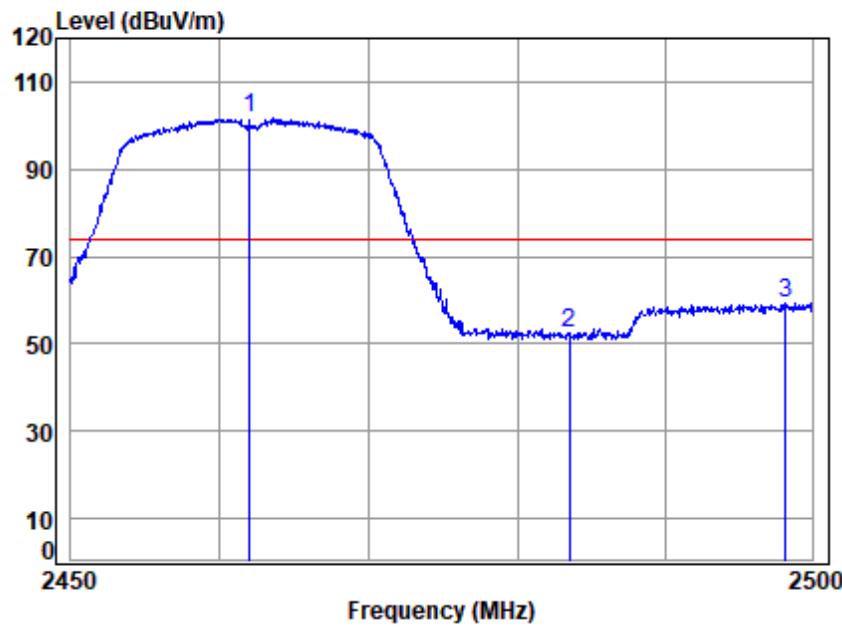
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
2462.000	4.46	28.64	40.46	108.91	101.55	74.00	27.55 Peak
2483.500	4.49	28.67	40.47	59.70	52.39	74.00	-21.61 Peak
2498.182	4.52	28.70	40.47	66.64	59.39	74.00	-14.61 Peak

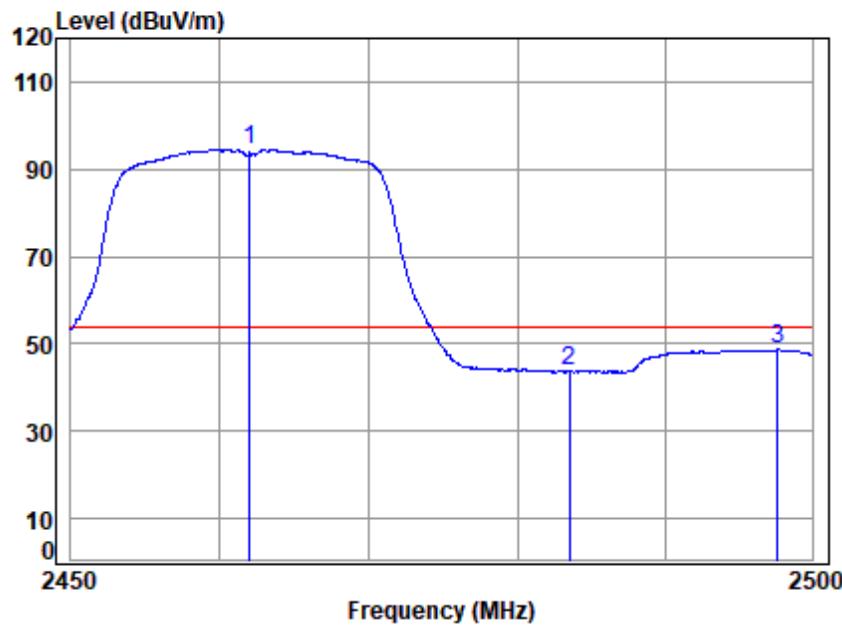
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
2462.000	4.46	28.64	40.46	101.81	94.45	54.00	40.45 Average
2483.500	4.49	28.67	40.47	51.09	43.78	54.00	-10.22 Average
2497.678	4.52	28.70	40.47	55.89	48.64	54.00	-5.36 Average

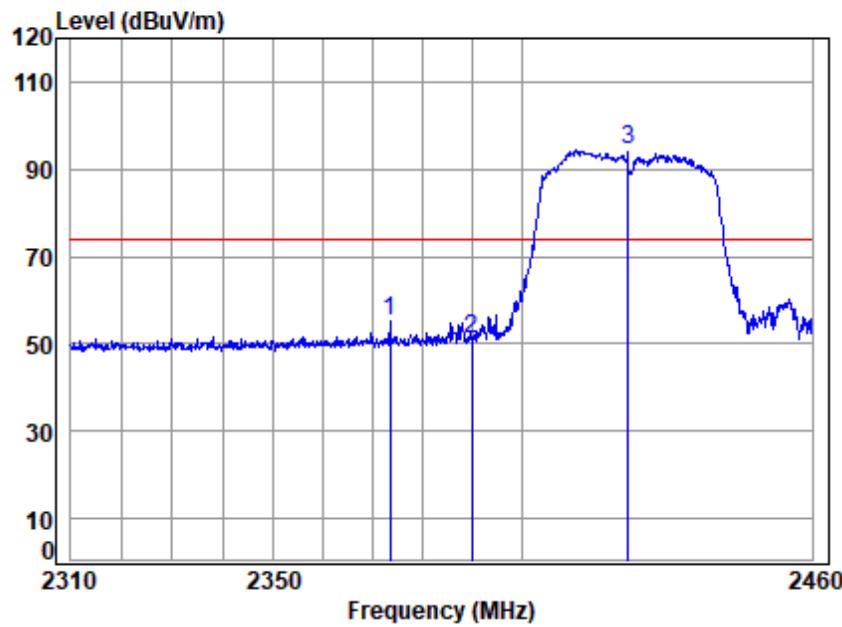
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2373.495	4.32	28.49	40.41	62.74	55.14	74.00	-18.86 peak
2	2390.000	4.34	28.52	40.42	58.52	50.96	74.00	-23.04 peak
3 *	2422.000	4.40	28.57	40.44	101.83	94.36	74.00	20.36 peak

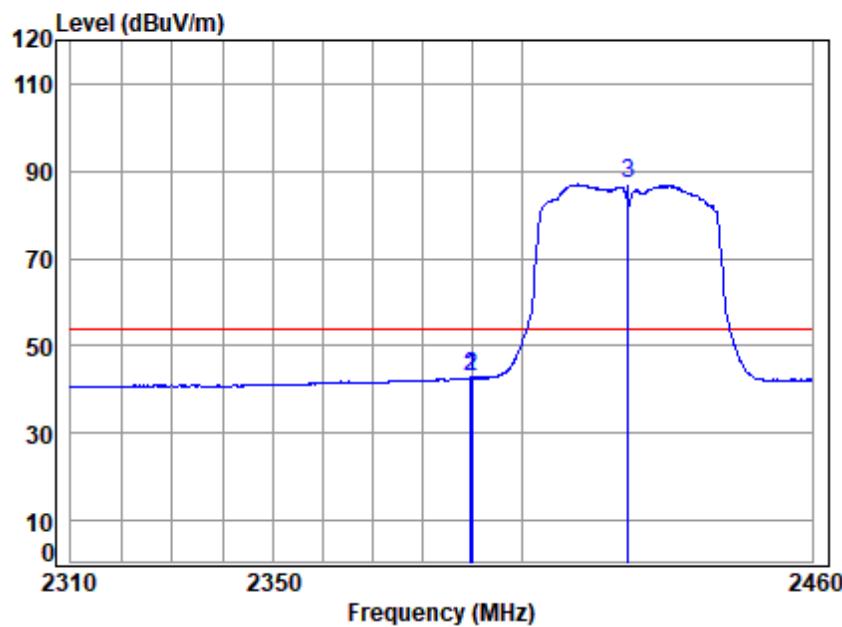
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.827	4.34	28.52	40.42	50.31	42.75	54.00	-11.25 Average
2	2390.000	4.34	28.52	40.42	50.42	42.86	54.00	-11.14 Average
3 *	2422.000	4.40	28.57	40.44	94.41	86.94	54.00	32.94 Average

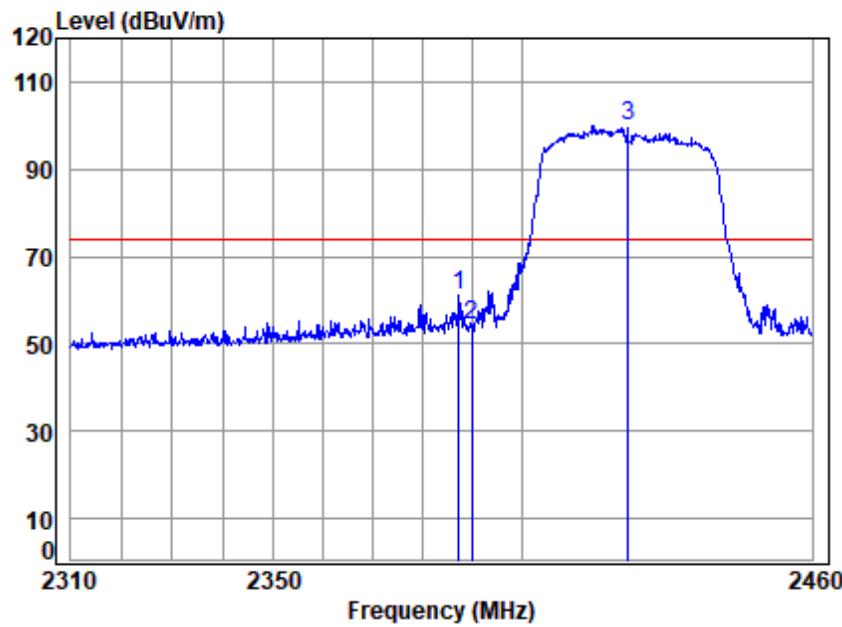
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2422 Band edge
 Note : 2.4G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.423	4.34	28.51	40.42	68.84	61.27	74.00	-12.73 Peak
2	2390.000	4.34	28.52	40.42	61.71	54.15	74.00	-19.85 Peak
3 *	2422.000	4.40	28.57	40.44	107.29	99.82	74.00	25.82 Peak



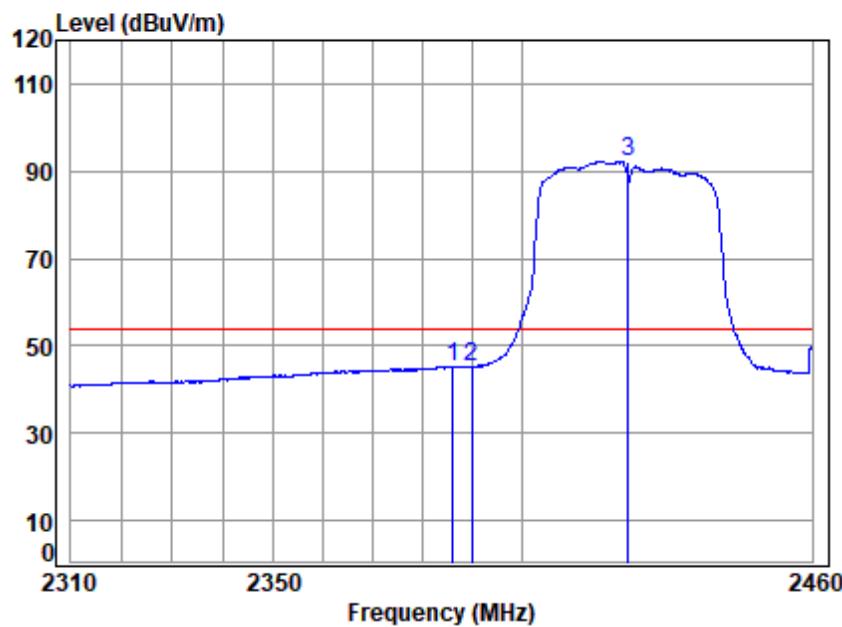
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	Over Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2386.221	4.34	28.51	40.42	52.95	45.38	54.00	-8.62 Average
2	2390.000	4.34	28.52	40.42	52.65	45.09	54.00	-8.91 Average
3 *	2422.000	4.40	28.57	40.44	99.78	92.31	54.00	38.31 Average

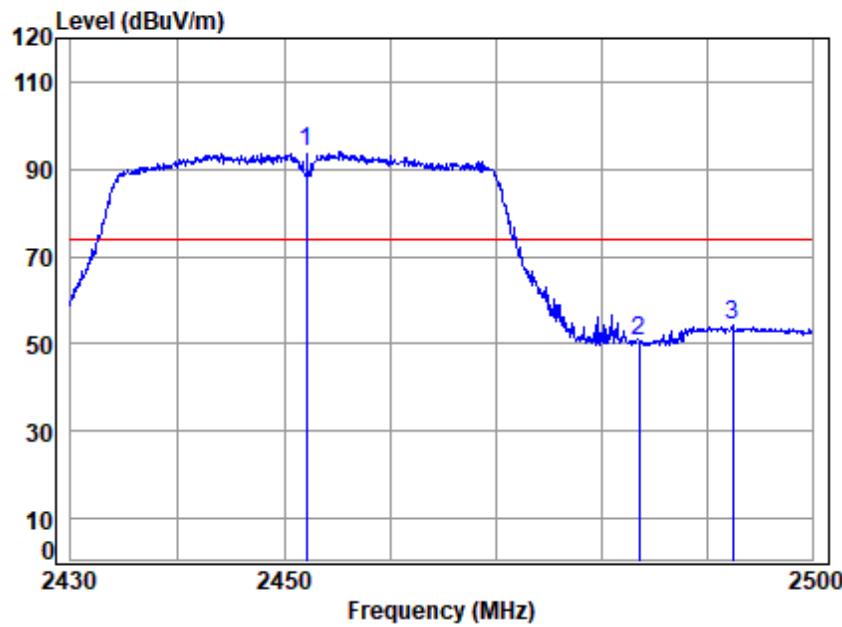
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11N40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	2452.000	4.44	28.62	40.45	101.48	94.09	74.00	20.09 peak
2	2483.500	4.49	28.67	40.47	58.17	50.86	74.00	-23.14 peak
3	2492.415	4.51	28.69	40.47	61.47	54.20	74.00	-19.80 Peak



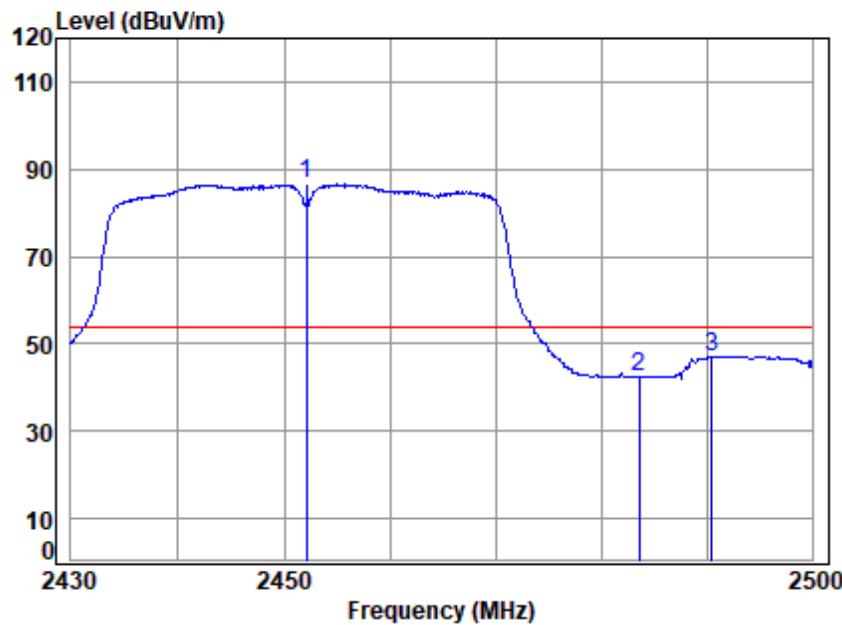
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2452.000	4.44	28.62	40.45	93.88	86.49	54.00	32.49 Average
2 2483.500	4.49	28.67	40.47	49.56	42.25	54.00	-11.75 Average
3 2490.434	4.51	28.68	40.47	54.41	47.13	54.00	-6.87 Peak

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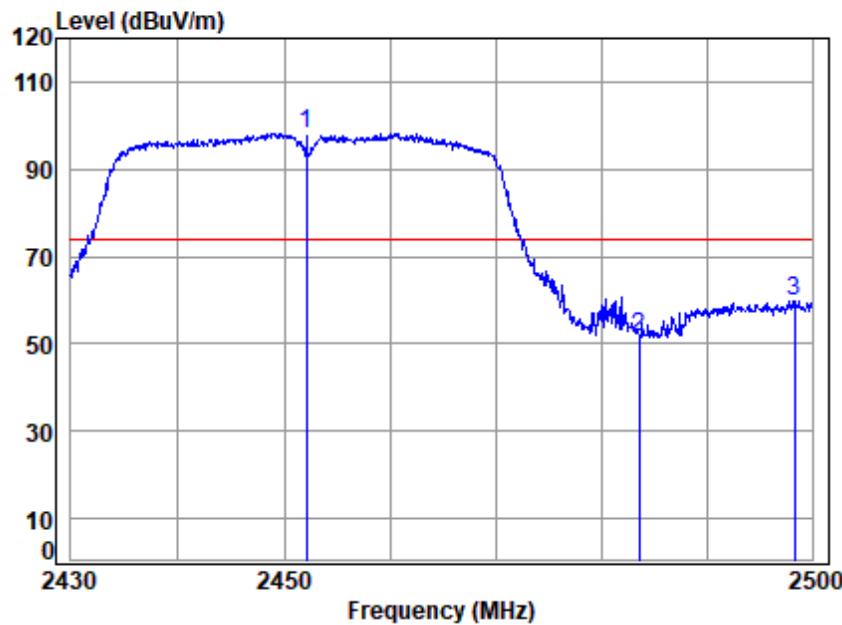
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2452.000	4.44	28.62	40.45	105.66	98.27	74.00	24.27 Peak
2 2483.500	4.49	28.67	40.47	58.77	51.46	74.00	-22.54 Peak
3 2498.297	4.52	28.70	40.47	67.09	59.84	74.00	-14.16 Peak



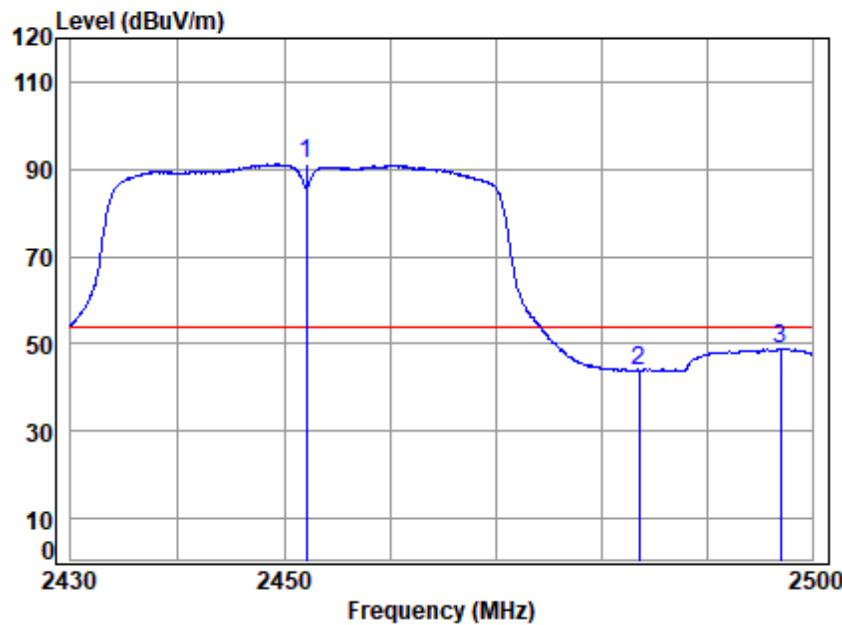
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 * 2452.000	4.44	28.62	40.45	98.44	91.05	54.00	37.05	Average
2 2483.500	4.49	28.67	40.47	51.00	43.69	54.00	-10.31	Average
3 2497.020	4.52	28.70	40.47	56.06	48.81	54.00	-5.19	Average

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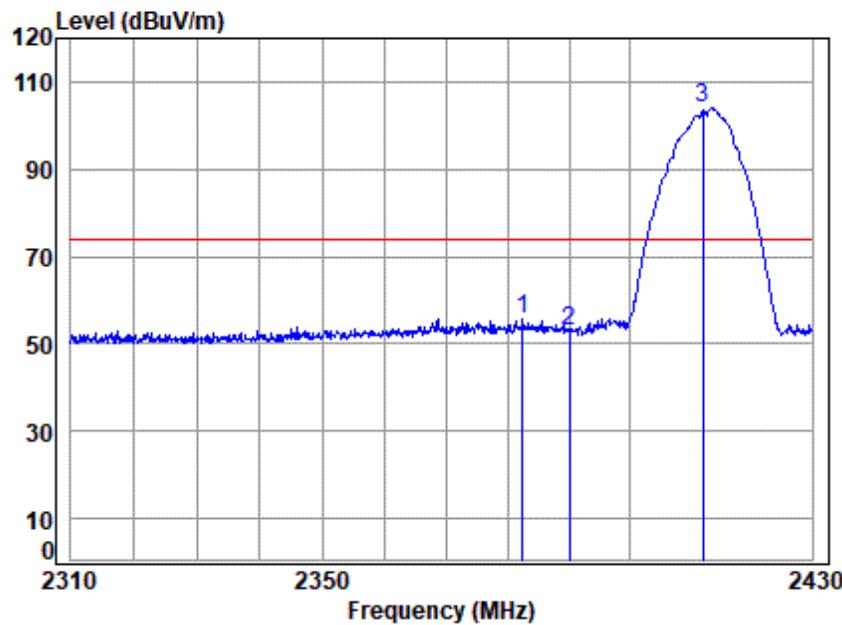
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Test data for Dock WLAN(Station mode, SANAV Antenna)

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 2382.355	4.33	28.51	40.42	63.30	55.72	74.00	-18.28	peak
2 2390.000	4.34	28.52	40.42	60.30	52.74	74.00	-21.26	peak
3 * 2412.000	4.38	28.56	40.43	111.40	103.91	74.00	29.91	peak

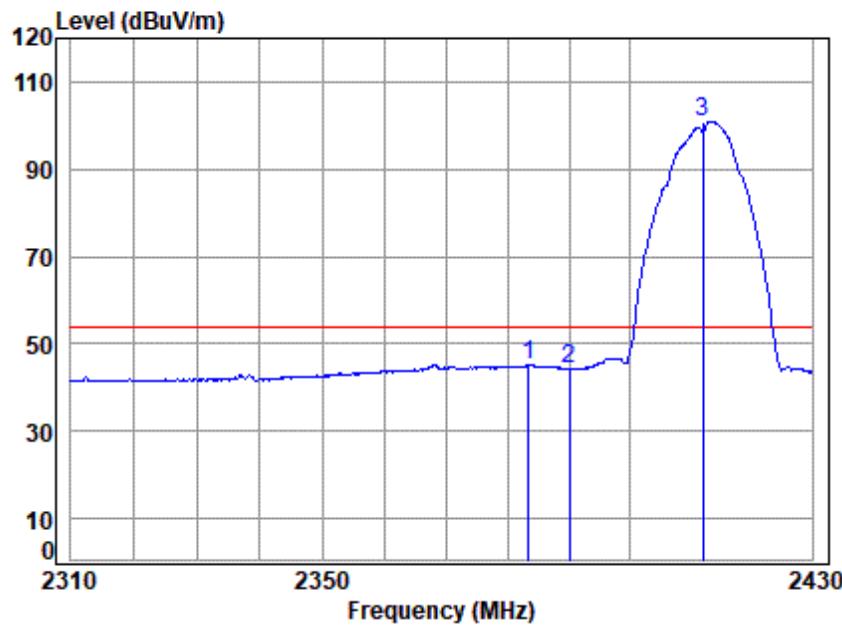
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2383.321	4.33	28.51	40.42	52.76	45.18	54.00	-8.82 Average
2 2390.000	4.34	28.52	40.42	51.72	44.16	54.00	-9.84 Average
3 * 2412.000	4.38	28.56	40.43	108.40	100.91	54.00	46.91 Average

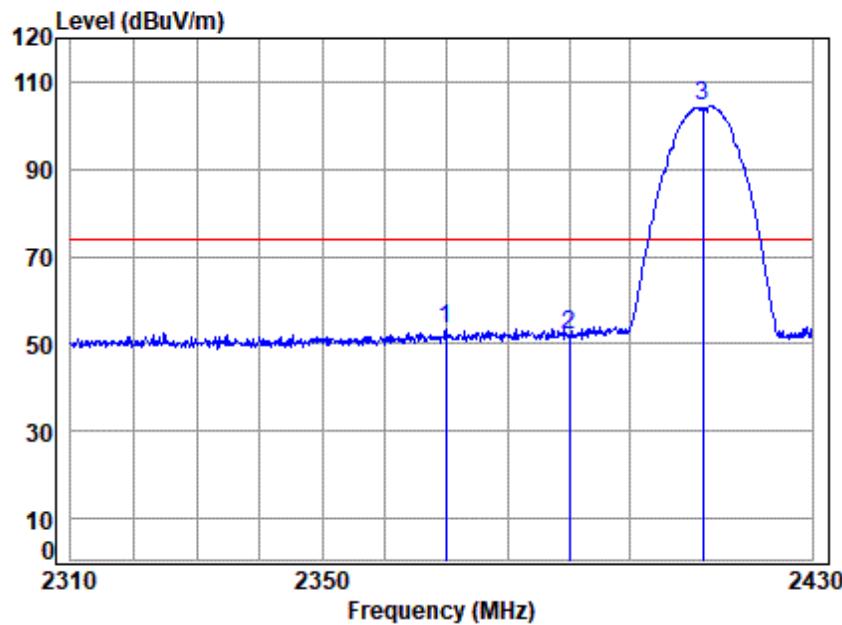
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	2369.960	4.31	28.48	40.41	61.18	53.56	74.00	-20.44	Peak
2	2390.000	4.34	28.52	40.42	59.52	51.96	74.00	-22.04	Peak
3 *	2412.000	4.38	28.56	40.43	112.02	104.53	74.00	30.53	Peak

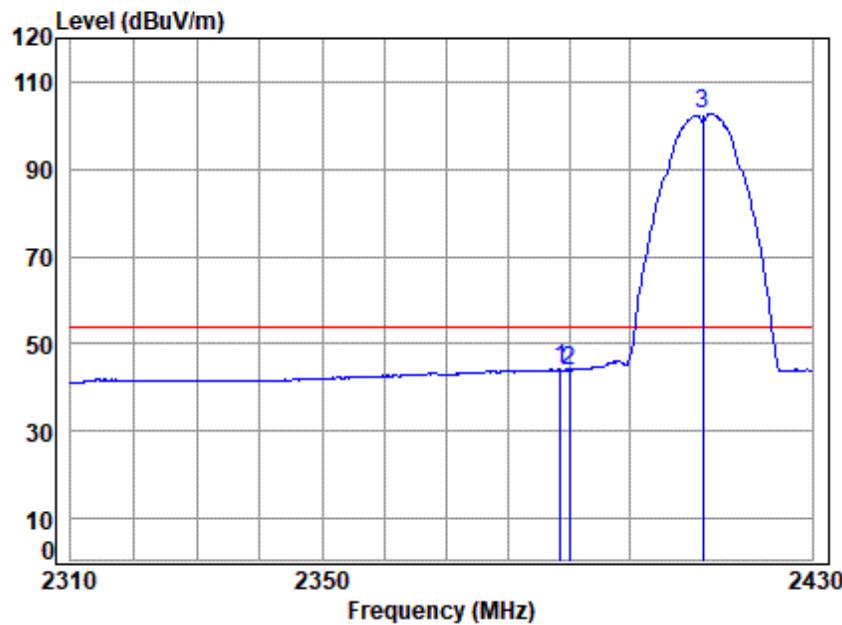
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 2388.516	4.34	28.52	40.42	51.65	44.09	54.00	-9.91	Average	
2 2390.000	4.34	28.52	40.42	51.50	43.94	54.00	-10.06	Average	
3 * 2412.000	4.38	28.56	40.43	110.16	102.67	54.00	48.67	Average	

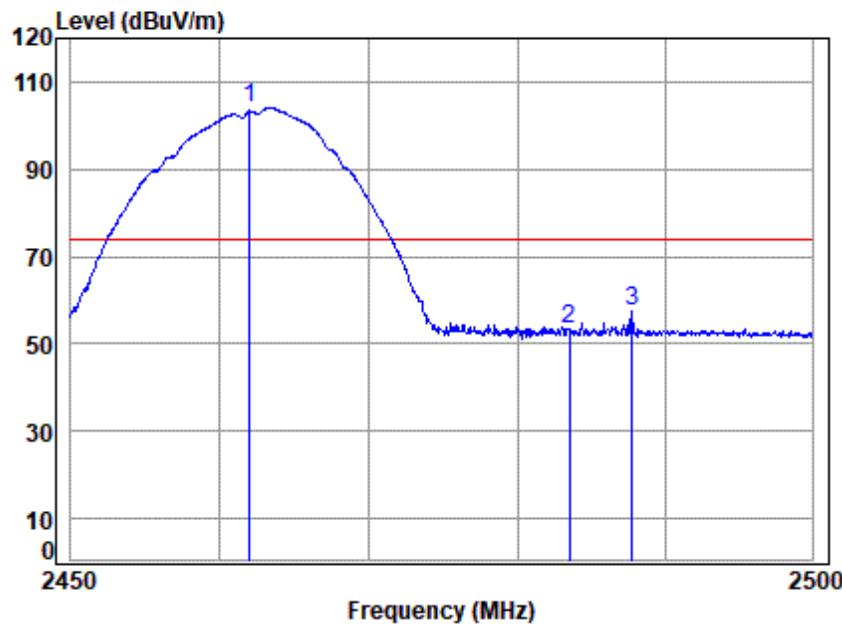
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



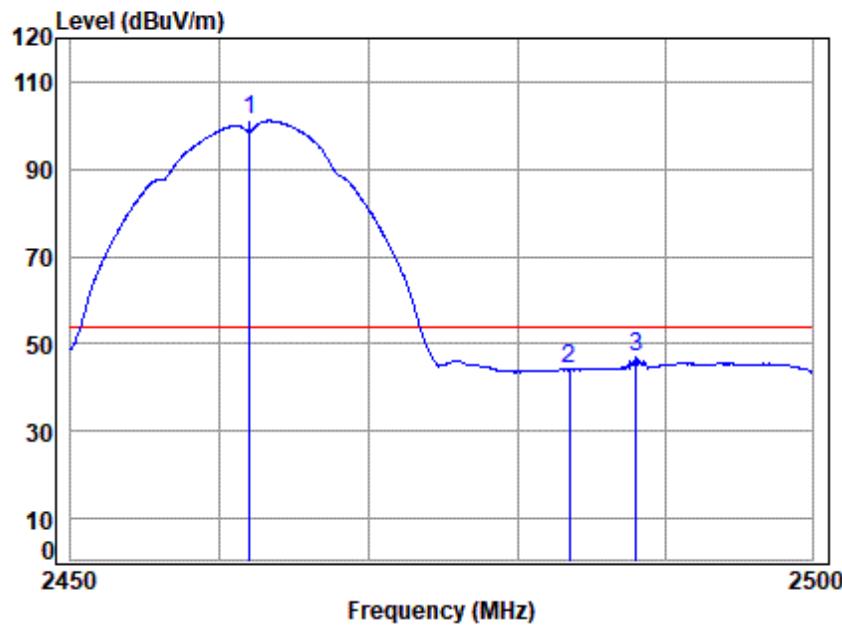
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 * 2462.000	4.46	28.64	40.46	111.31	103.95	74.00	29.95	peak	
2 2483.500	4.49	28.67	40.47	60.58	53.27	74.00	-20.73	peak	
3 2487.757	4.50	28.68	40.47	64.58	57.29	74.00	-16.71	Peak	

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark	
							dB	dB
MHz								
1 *	2462.000	4.46	28.64	40.46	108.45	101.09	54.00	47.09 Average
2	2483.500	4.49	28.67	40.47	51.40	44.09	54.00	-9.91 Average
3	2488.059	4.50	28.68	40.47	54.36	47.07	54.00	-6.93 Peak

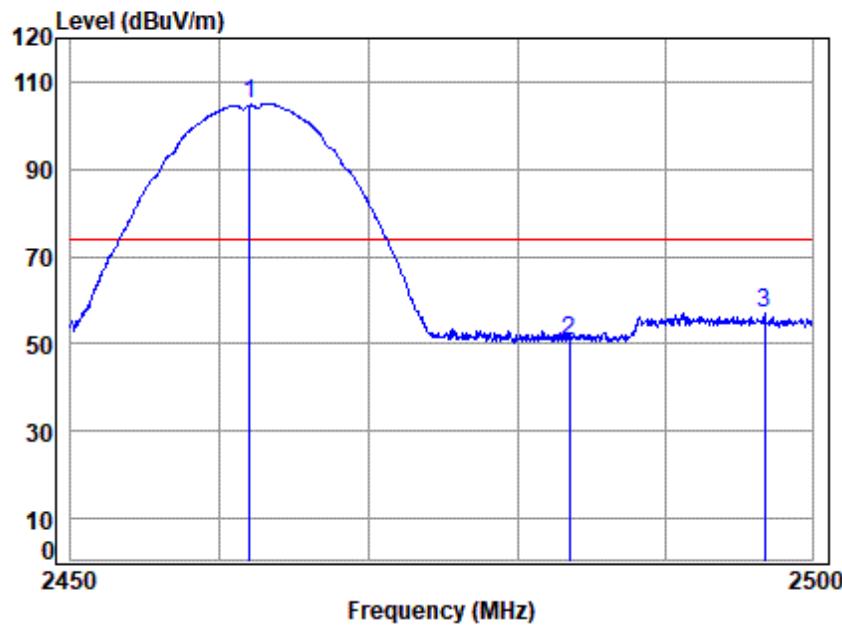
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 *	2462.000	4.46	28.64	40.46	112.47	105.11	74.00	31.11	Peak
2	2483.500	4.49	28.67	40.47	58.04	50.73	74.00	-23.27	Peak
3	2496.770	4.51	28.69	40.47	64.50	57.23	74.00	-16.77	Peak

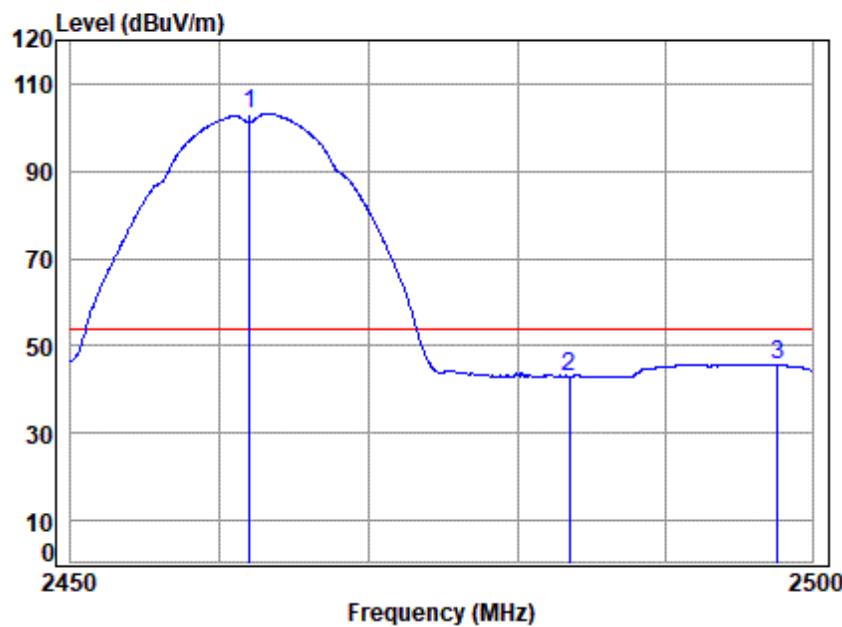
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 *	2462.000	4.46	28.64	40.46	110.57	103.21	54.00	49.21	Average
2	2483.500	4.49	28.67	40.47	50.38	43.07	54.00	-10.93	Average
3	2497.627	4.52	28.70	40.47	52.95	45.70	54.00	-8.30	Average

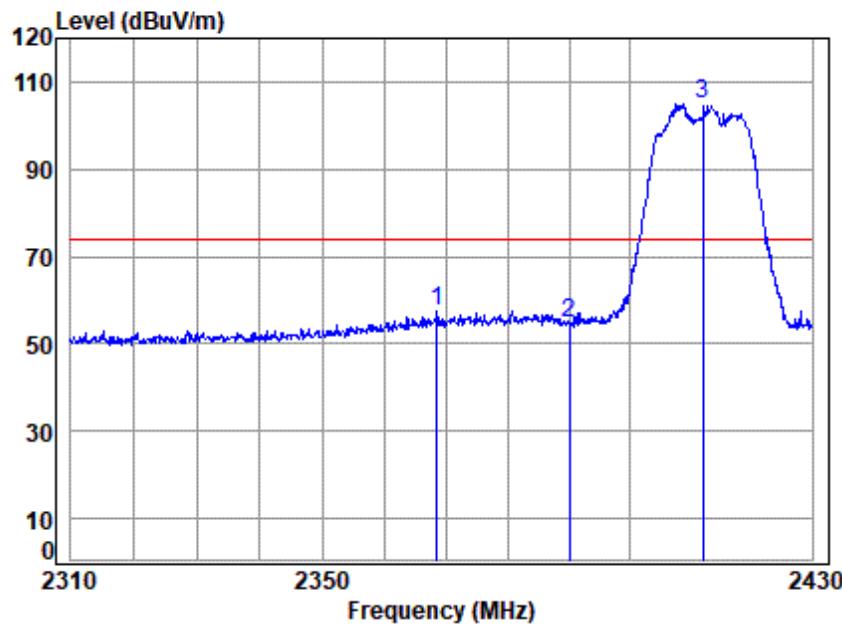
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 2368.521	4.31	28.48	40.41	64.98	57.36	74.00	-16.64	peak	
2 2390.000	4.34	28.52	40.42	62.09	54.53	74.00	-19.47	peak	
3 * 2412.000	4.38	28.56	40.43	112.58	105.09	74.00	31.09	peak	

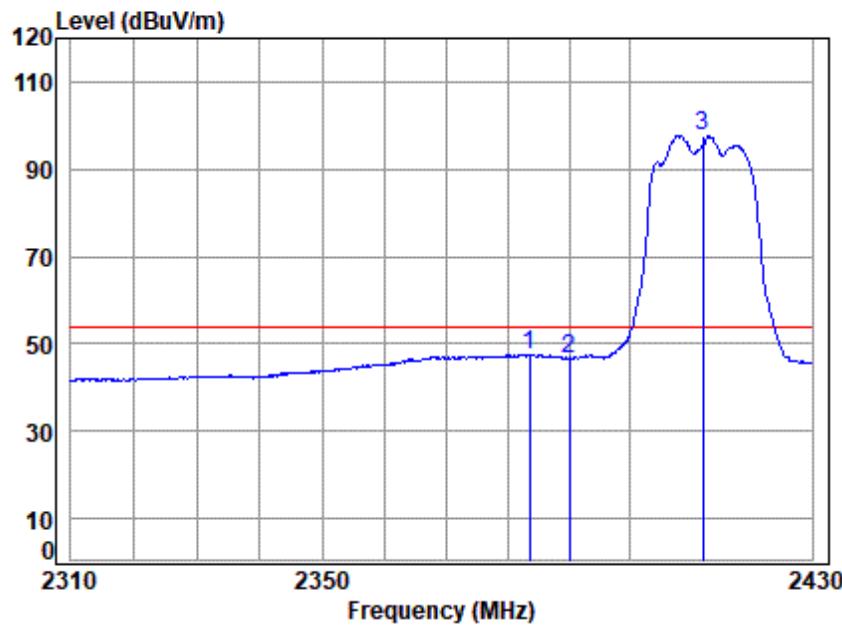
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 2383.562	4.33	28.51	40.42	55.12	47.54	54.00	-6.46	Average	
2 2390.000	4.34	28.52	40.42	54.26	46.70	54.00	-7.30	Average	
3 * 2412.000	4.38	28.56	40.43	105.22	97.73	54.00	43.73	Average	

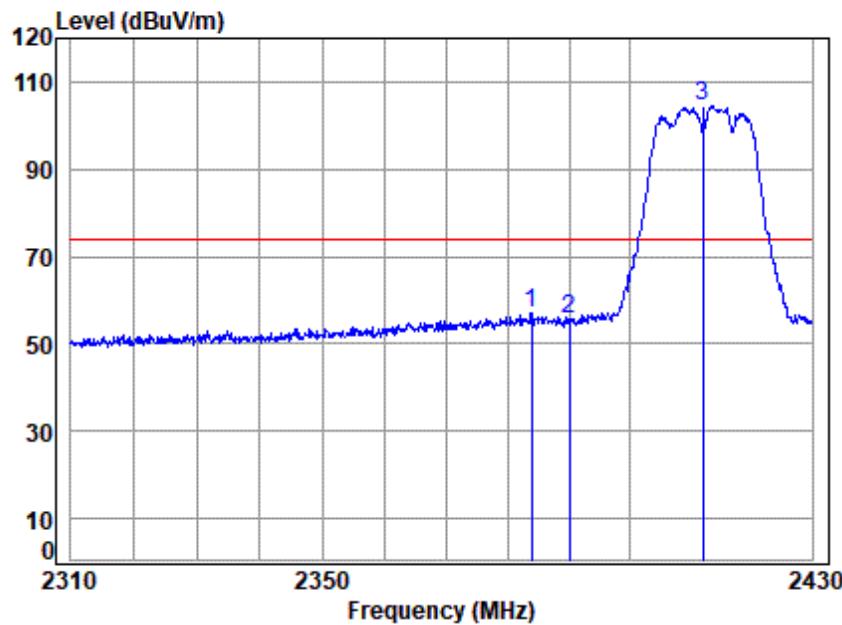
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 2383.803	4.33	28.51	40.42	64.57	56.99	74.00	-17.01	Peak	
2 2390.000	4.34	28.52	40.42	63.22	55.66	74.00	-18.34	Peak	
3 * 2412.000	4.38	28.56	40.43	112.00	104.51	74.00	30.51	Peak	

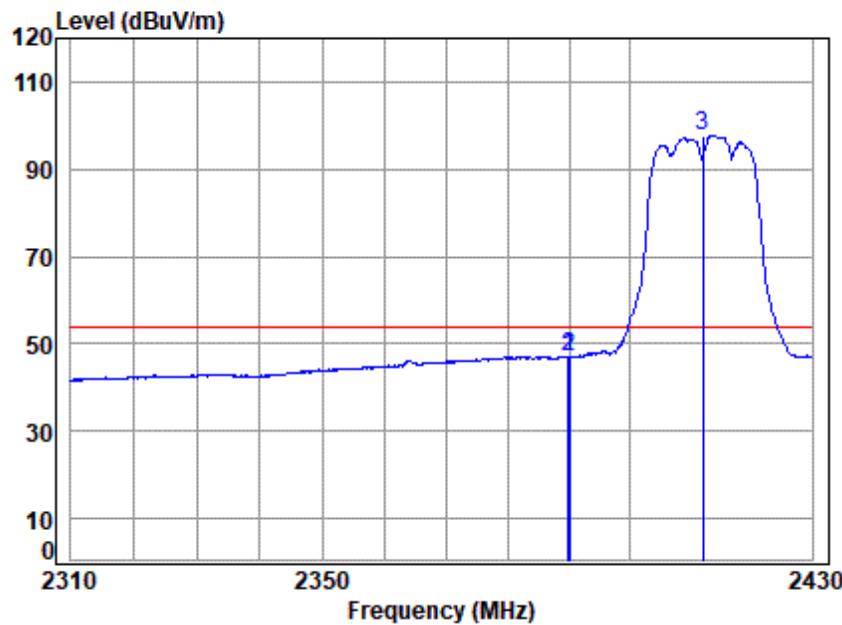


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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 2389.847	4.34	28.52	40.42	54.64	47.08	54.00	-6.92	Average	
2 2390.000	4.34	28.52	40.42	54.62	47.06	54.00	-6.94	Average	
3 * 2412.000	4.38	28.56	40.43	105.16	97.67	54.00	43.67	Average	

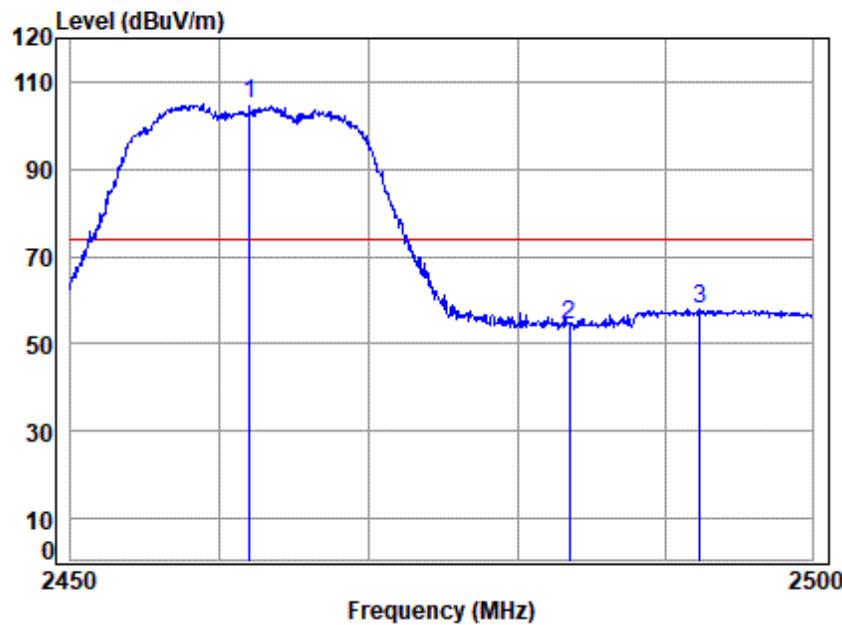
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit Remark	
							dBuV/m	dBuV/m
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2462.000	4.46	28.64	40.46	112.15	104.79	74.00	30.79	peak
2 2483.500	4.49	28.67	40.47	61.61	54.30	74.00	-19.70	peak
3 2492.385	4.51	28.69	40.47	65.10	57.83	74.00	-16.17	Peak

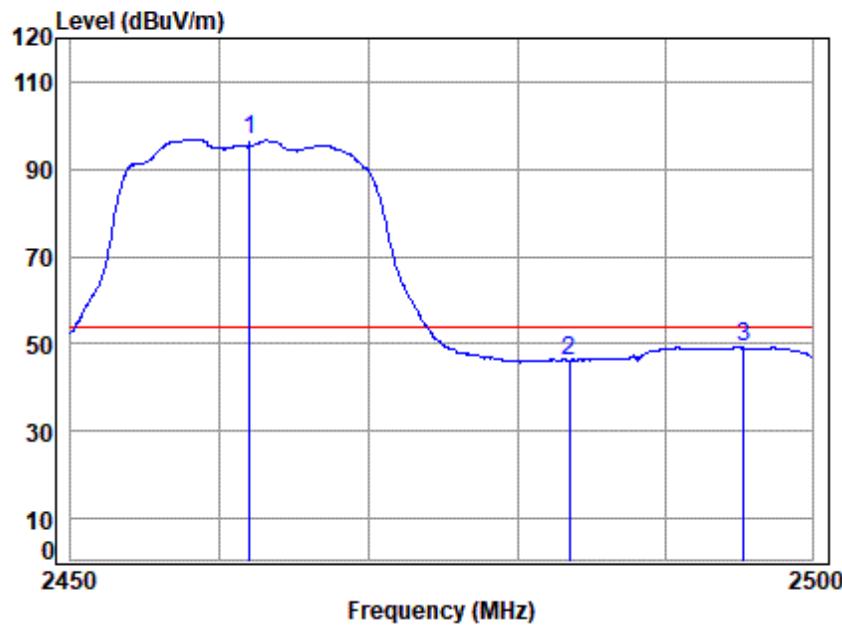
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 *	2462.000	4.46	28.64	40.46	104.31	96.95	54.00	42.95	Average
2	2483.500	4.49	28.67	40.47	53.50	46.19	54.00	-7.81	Average
3	2495.358	4.51	28.69	40.47	56.36	49.09	54.00	-4.91	Peak

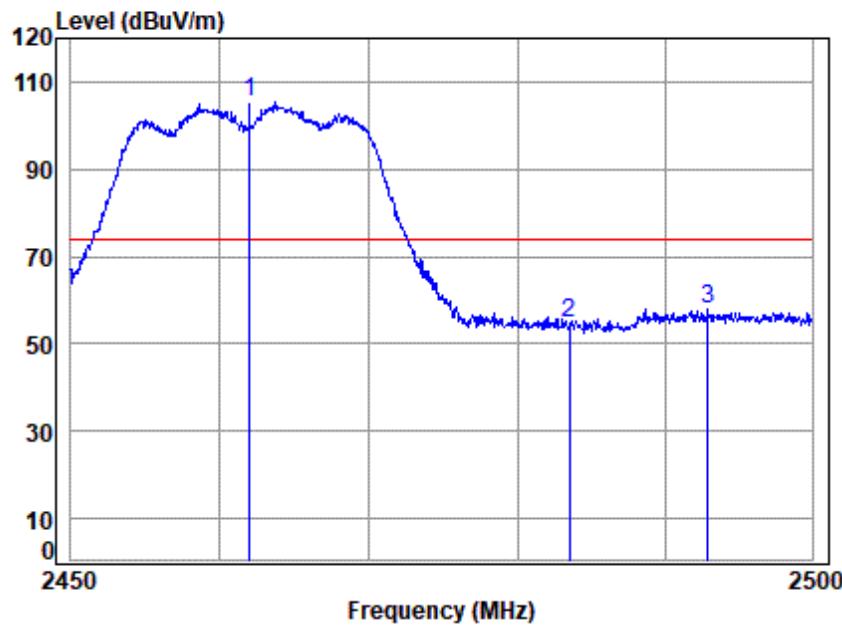
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark	
								MHz	dB
1 *	2462.000	4.46	28.64	40.46	112.58	105.22	74.00	31.22	Peak
2	2483.500	4.49	28.67	40.47	62.06	54.75	74.00	-19.25	Peak
3	2492.889	4.51	28.69	40.47	65.27	58.00	74.00	-16.00	Peak

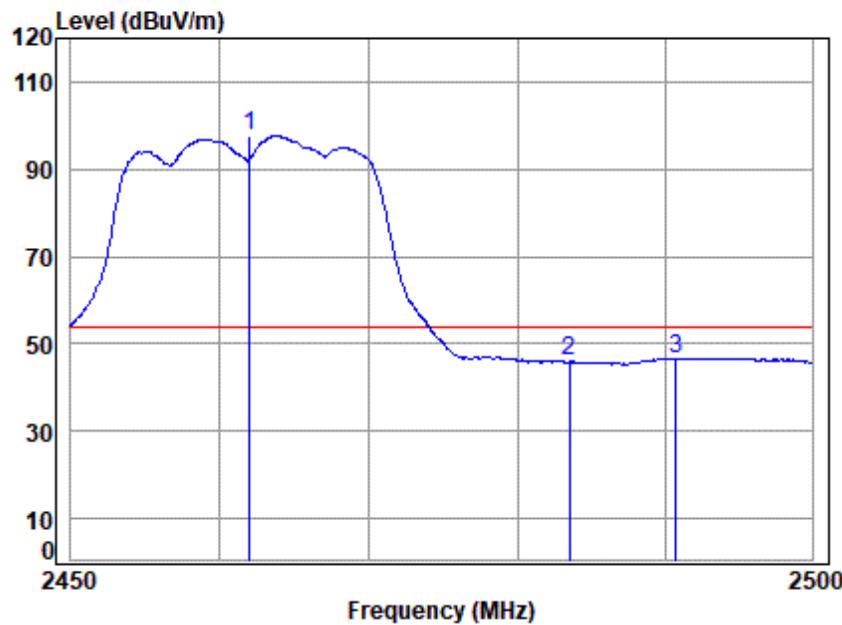
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2462.000	4.46	28.64	40.46	104.90	97.54	54.00	43.54 Average
2 2483.500	4.49	28.67	40.47	53.18	45.87	54.00	-8.13 Average
3 2490.774	4.51	28.69	40.47	53.92	46.65	54.00	-7.35 Average



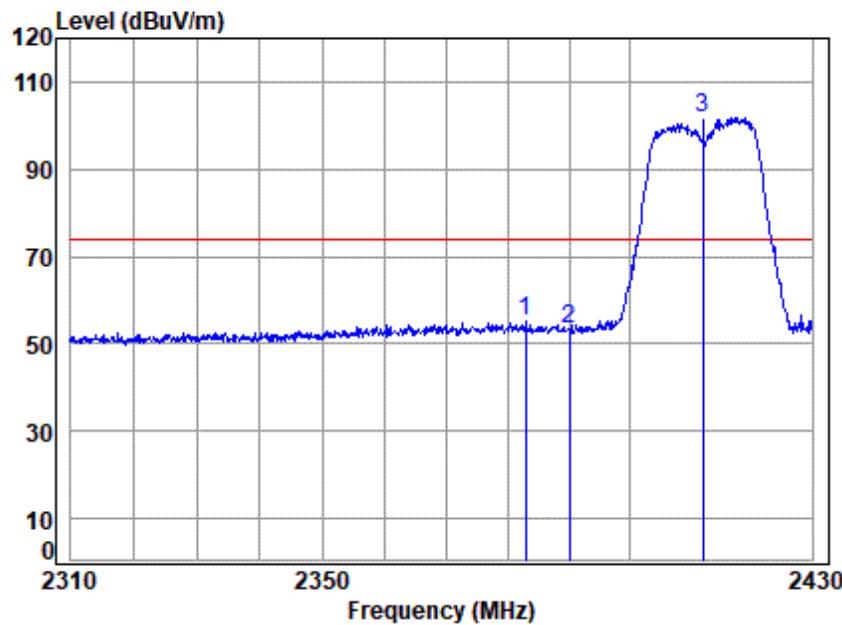
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit Remark	
							dBuV	dBuV/m
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 2382.958	4.33	28.51	40.42	62.59	55.01	74.00	-18.99	peak
2 2390.000	4.34	28.52	40.42	60.78	53.22	74.00	-20.78	peak
3 * 2412.000	4.38	28.56	40.43	109.20	101.71	74.00	27.71	peak

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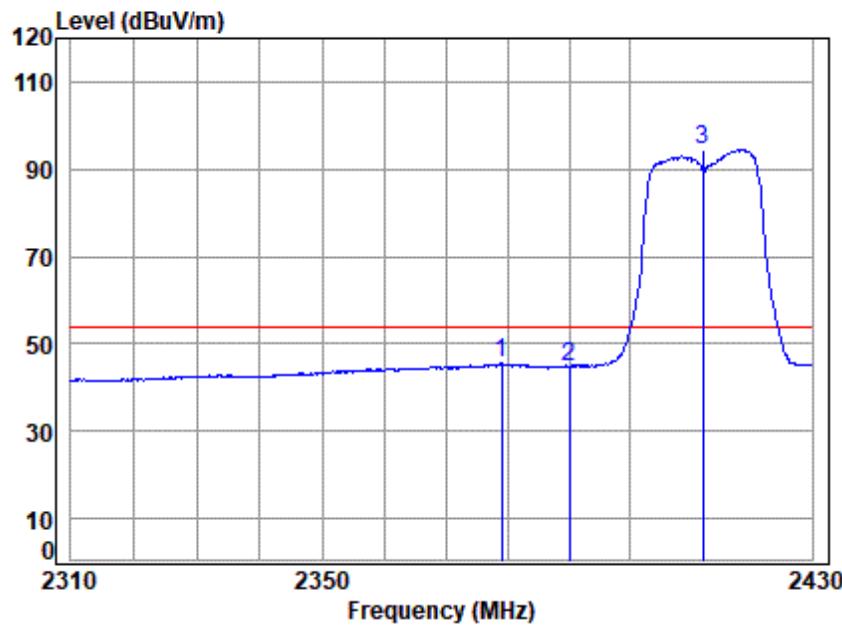
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 2378.979	4.33	28.50	40.41	52.99	45.41	54.00	-8.59	Average	
2 2390.000	4.34	28.52	40.42	52.41	44.85	54.00	-9.15	Average	
3 * 2412.000	4.38	28.56	40.43	101.90	94.41	54.00	40.41	Average	

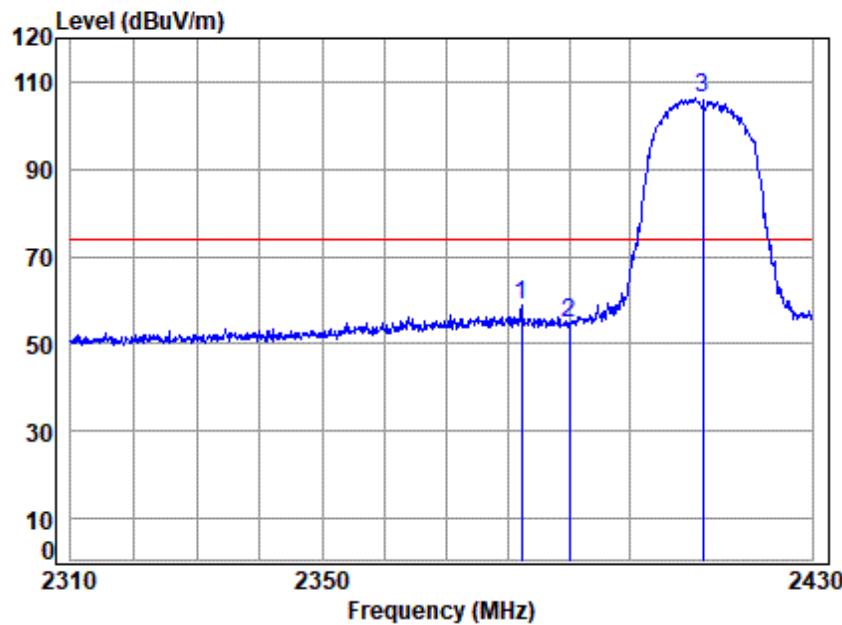
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	2382.235	4.33	28.51	40.42	66.65	59.07	74.00	-14.93	Peak
2	2390.000	4.34	28.52	40.42	62.27	54.71	74.00	-19.29	Peak
3 *	2412.000	4.38	28.56	40.43	113.92	106.43	74.00	32.43	Peak

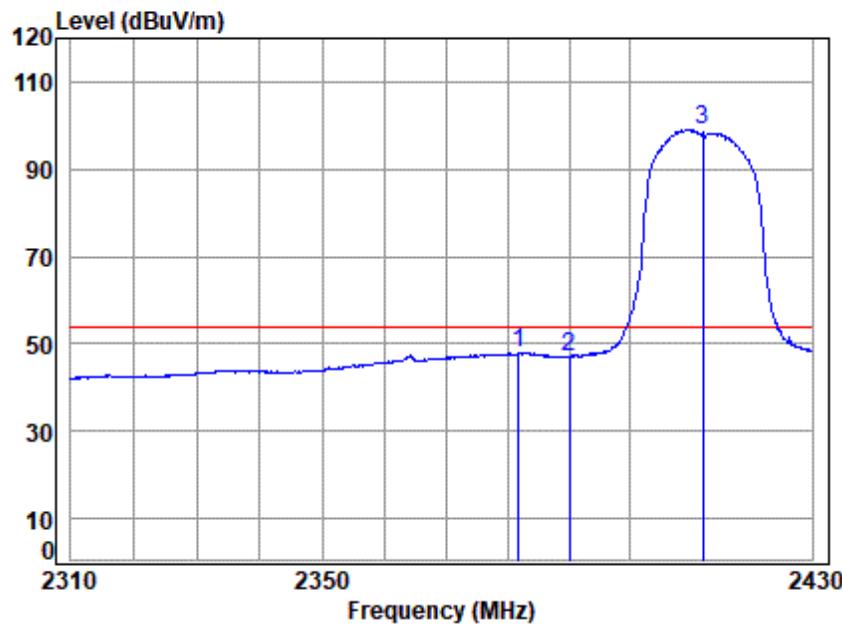
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2381.752	4.33	28.50	40.42	55.56	47.97	54.00	-6.03 Average
2 2390.000	4.34	28.52	40.42	54.44	46.88	54.00	-7.12 Average
3 * 2412.000	4.38	28.56	40.43	106.45	98.96	54.00	44.96 Average

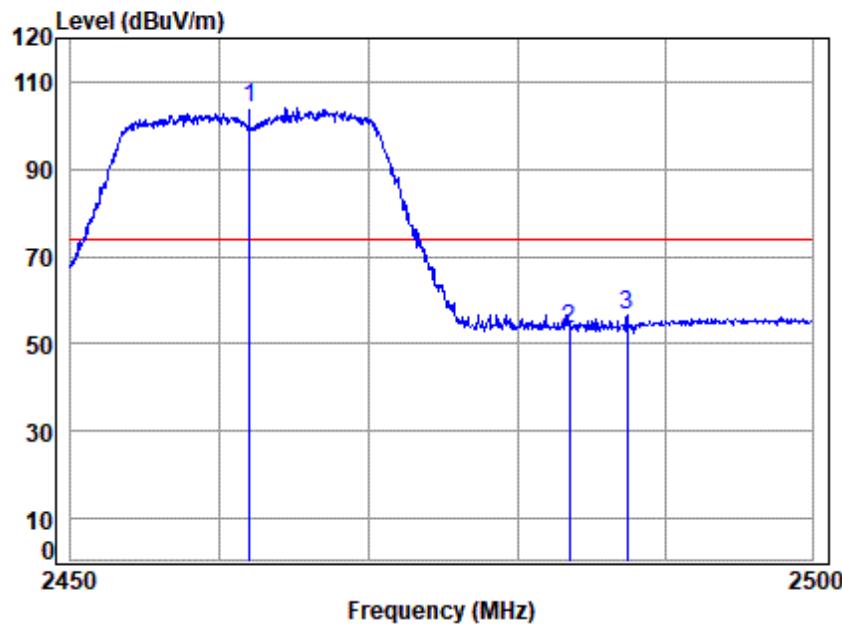
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 *	2462.000	4.46	28.64	40.46	111.36	104.00	74.00	30.00	peak
2	2483.500	4.49	28.67	40.47	60.82	53.51	74.00	-20.49	peak
3	2487.455	4.50	28.68	40.47	63.71	56.42	74.00	-17.58	Peak

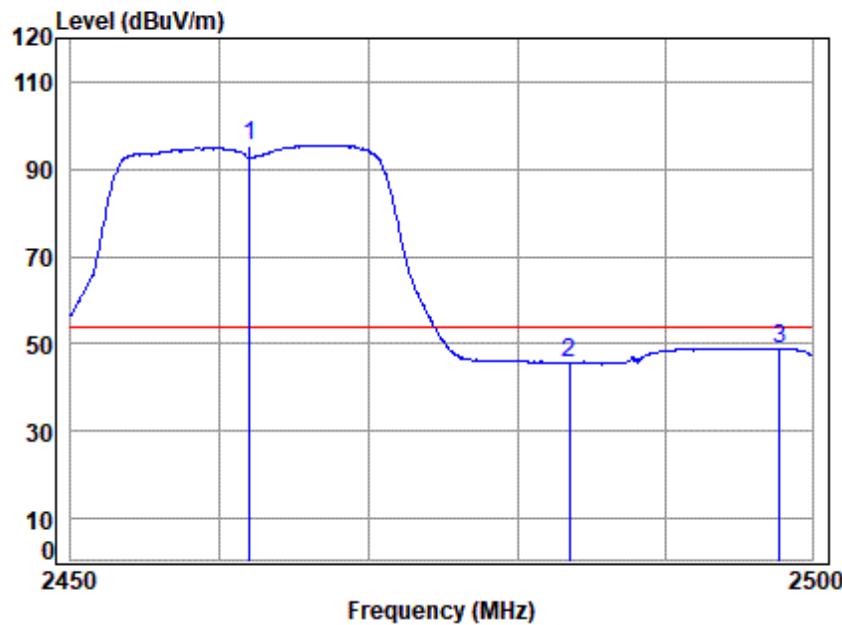
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 * 2462.000	4.46	28.64	40.46	102.90	95.54	54.00	41.54 Average
2 2483.500	4.49	28.67	40.47	52.94	45.63	54.00	-8.37 Average
3 2497.779	4.52	28.70	40.47	56.22	48.97	54.00	-5.03 Peak



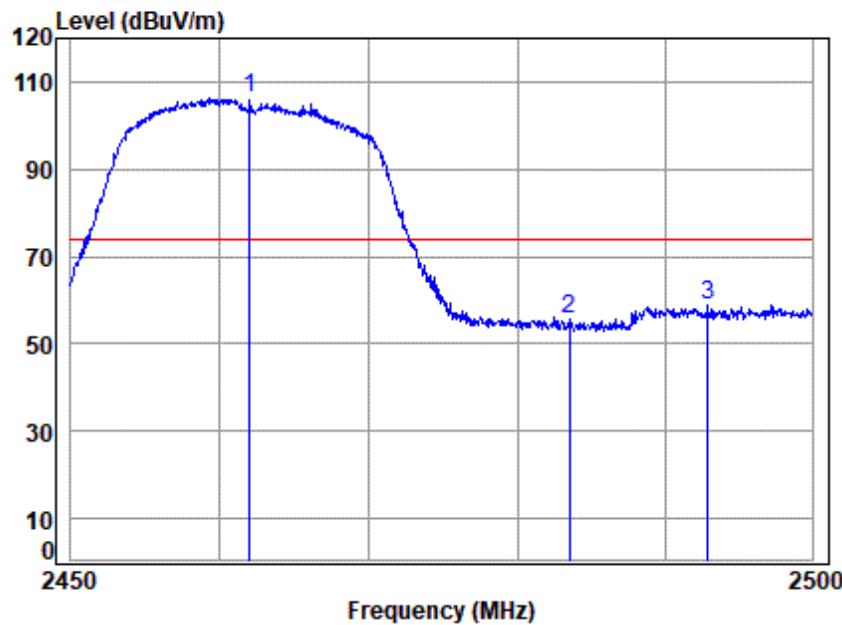
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit Remark	
							dBuV	dBuV/m
MHz	dB	dB/m		dB				dB
1 * 2462.000	4.46	28.64	40.46	113.45	106.09	74.00	32.09	Peak
2 2483.500	4.49	28.67	40.47	62.94	55.63	74.00	-18.37	Peak
3 2492.939	4.51	28.69	40.47	66.07	58.80	74.00	-15.20	Peak

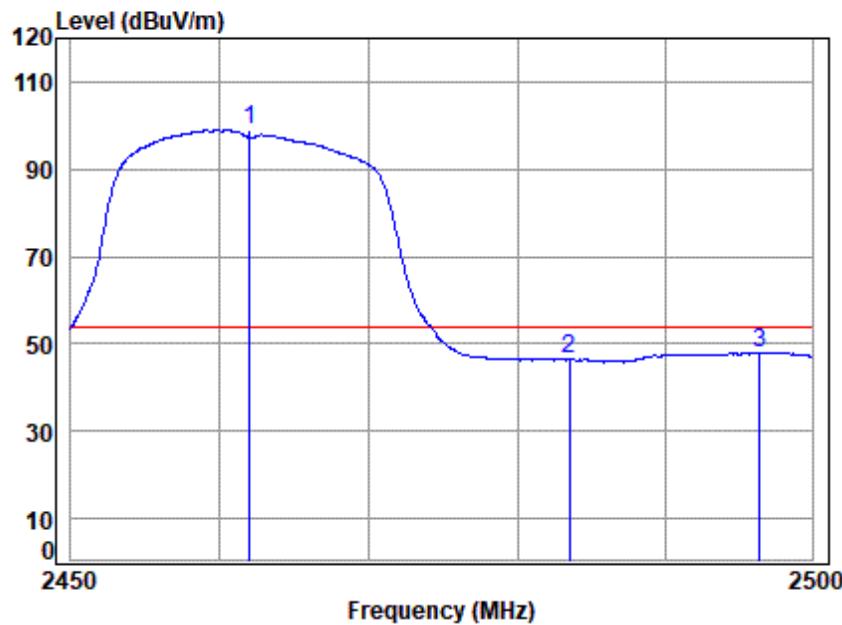
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark				
					dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
MHz												
1 *	2462.000	4.46	28.64	40.46	106.37	99.01	54.00	45.01	Average			
2	2483.500	4.49	28.67	40.47	53.85	46.54	54.00	-7.46	Average			
3	2496.417	4.51	28.69	40.47	55.23	47.96	54.00	-6.04	Average			

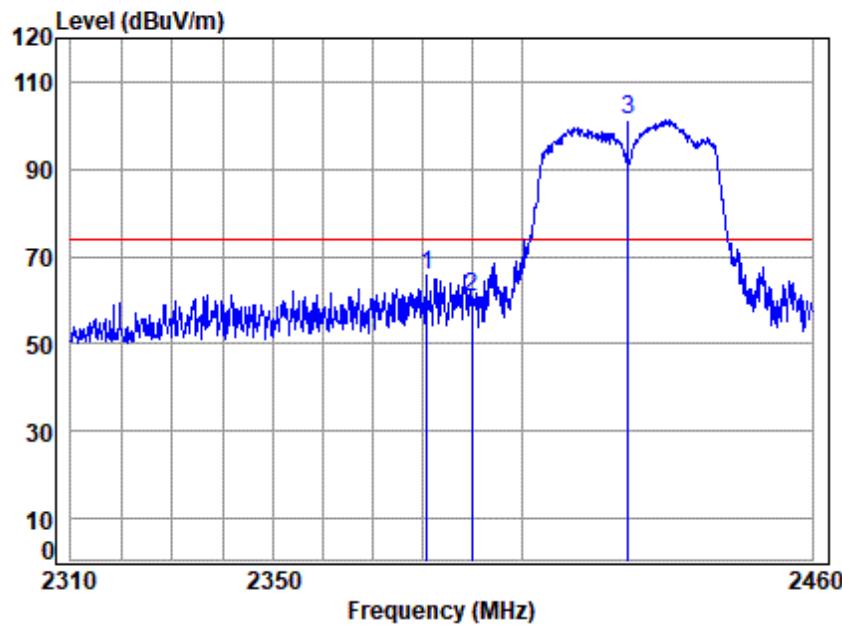
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2422 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	2380.823	4.33	28.50	40.41	73.49	65.91	74.00	-8.09	peak
2	2390.000	4.34	28.52	40.42	68.18	60.62	74.00	-13.38	peak
3 *	2422.000	4.40	28.57	40.44	108.71	101.24	74.00	27.24	peak

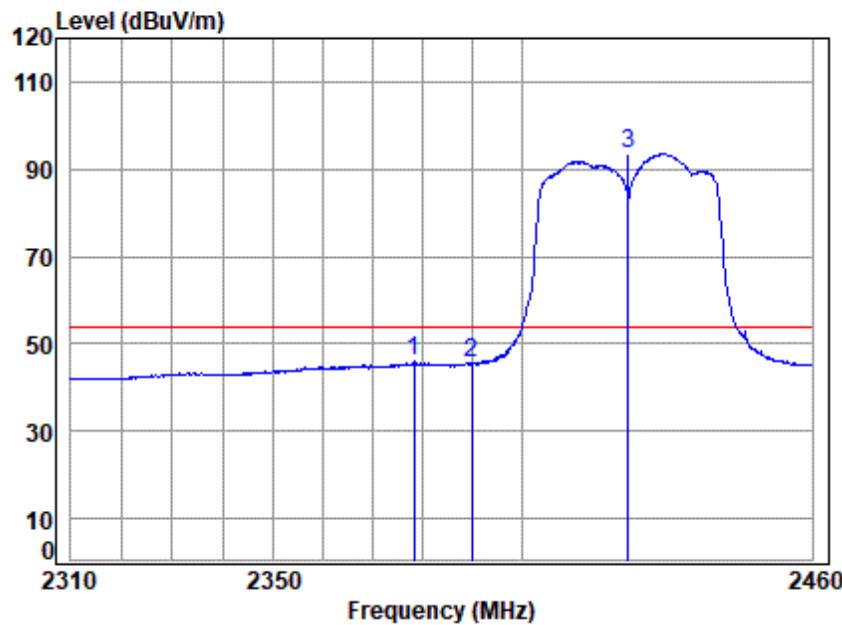
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2422 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 2378.278	4.33	28.50	40.41	53.45	45.87	54.00	-8.13	Average	
2 2390.000	4.34	28.52	40.42	52.97	45.41	54.00	-8.59	Average	
3 * 2422.000	4.40	28.57	40.44	100.91	93.44	54.00	39.44	Average	

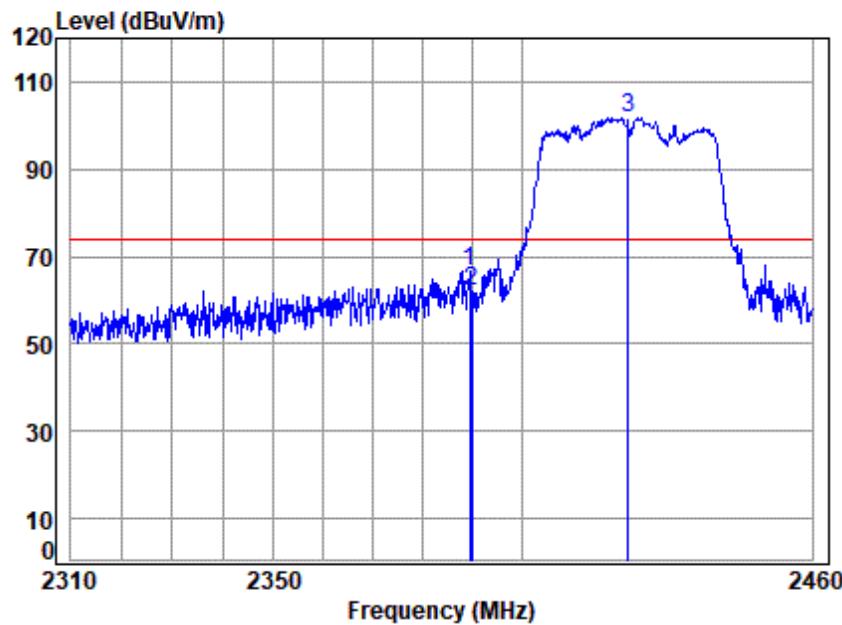
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2422 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	2389.526	4.34	28.52	40.42	74.40	66.84	74.00	-7.16	Peak
2	2390.000	4.34	28.52	40.42	69.60	62.04	74.00	-11.96	Peak
3 *	2422.000	4.40	28.57	40.44	109.43	101.96	74.00	27.96	Peak

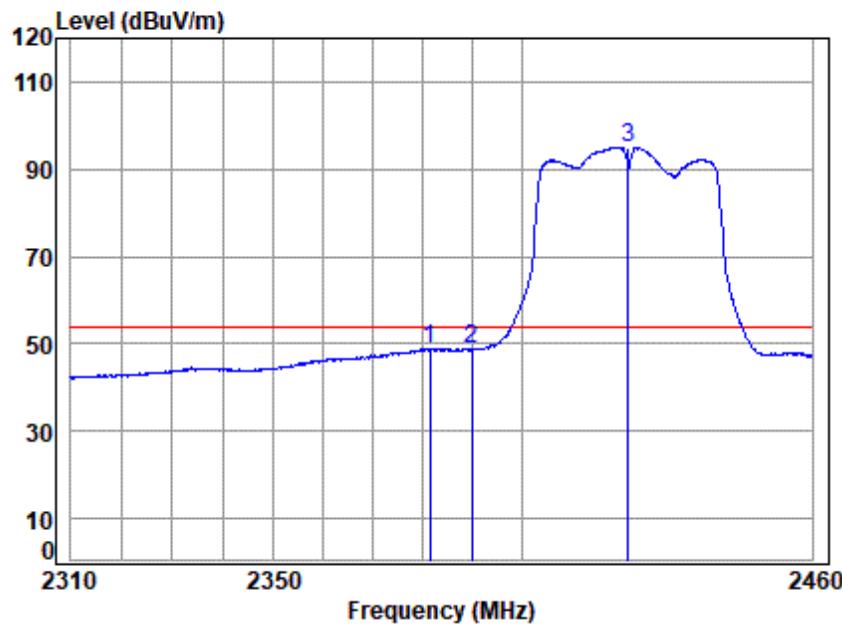
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



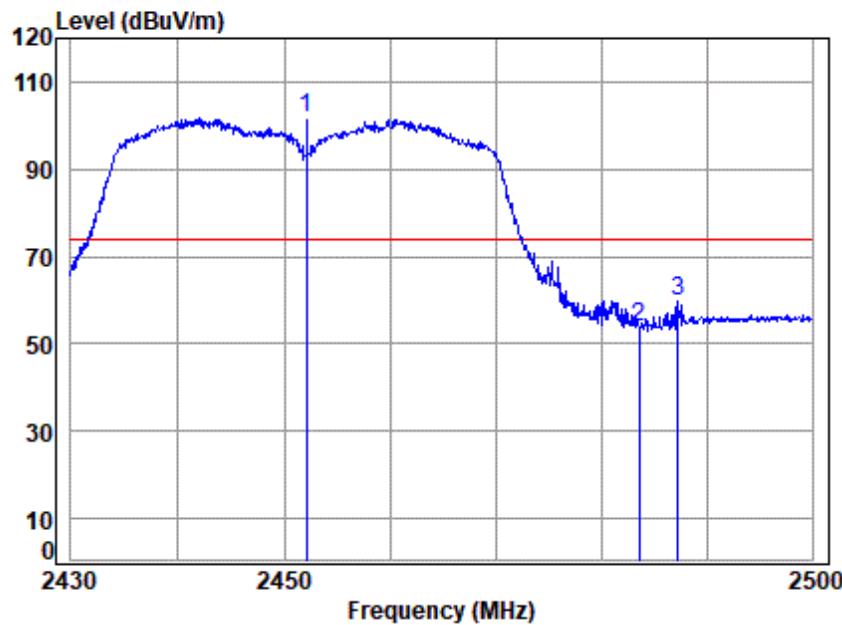
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2422 Band edge
 Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 2381.422	4.33	28.50	40.42	56.59	49.00	54.00	-5.00	Average	
2 2390.000	4.34	28.52	40.42	56.43	48.87	54.00	-5.13	Average	
3 * 2422.000	4.40	28.57	40.44	102.53	95.06	54.00	41.06	Average	

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2452 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 * 2452.000	4.44	28.62	40.45	108.92	101.53	74.00	27.53	peak	
2 2483.500	4.49	28.67	40.47	61.08	53.77	74.00	-20.23	peak	
3 2487.182	4.50	28.68	40.47	67.21	59.92	74.00	-14.08	Peak	

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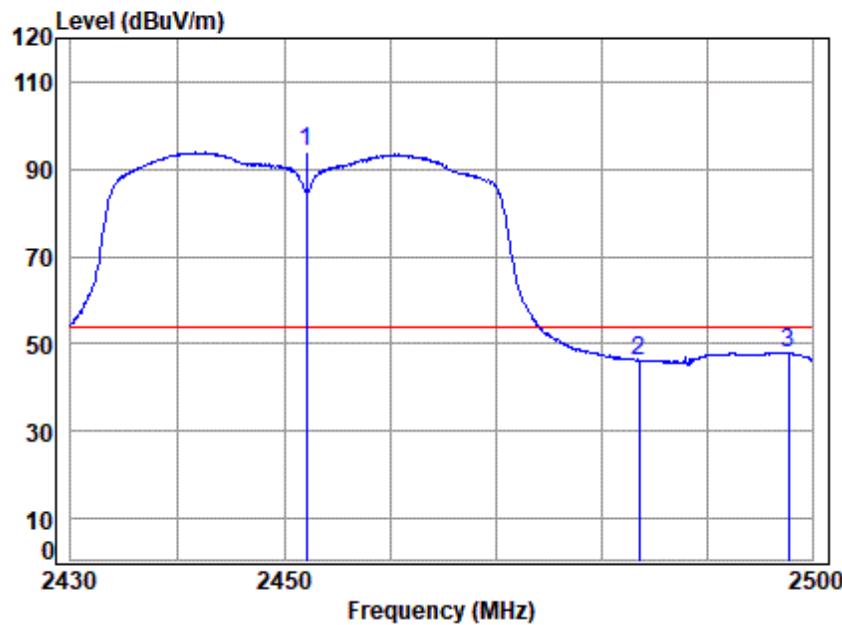
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2452 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 *	2452.000	4.44	28.62	40.45	101.18	93.79	54.00	39.79	Average
2	2483.500	4.49	28.67	40.47	53.53	46.22	54.00	-7.78	Average
3	2497.729	4.52	28.70	40.47	55.26	48.01	54.00	-5.99	Peak

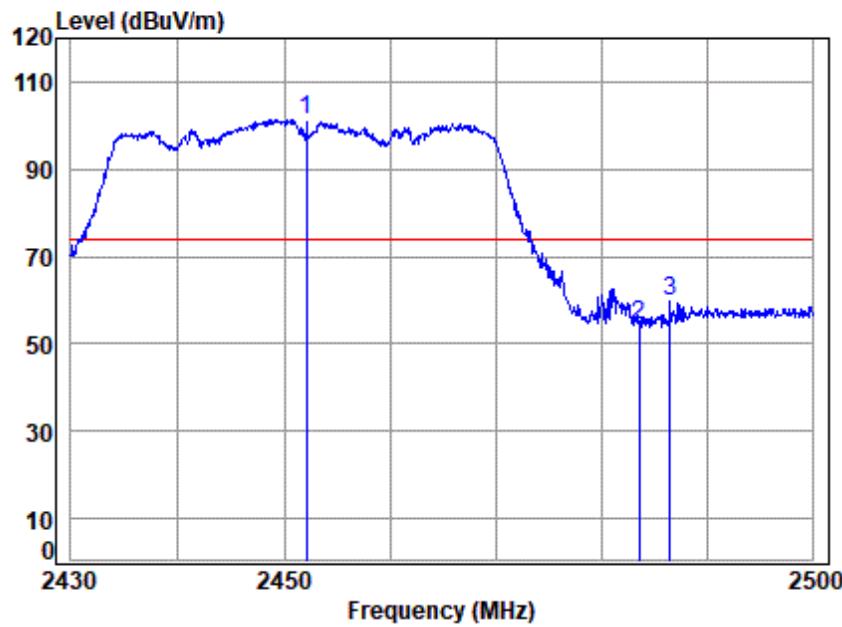
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 * 2452.000	4.44	28.62	40.45	108.61	101.22	74.00	27.22	Peak	
2 2483.500	4.49	28.67	40.47	61.56	54.25	74.00	-19.75	Peak	
3 2486.405	4.50	28.68	40.47	66.85	59.56	74.00	-14.44	Peak	

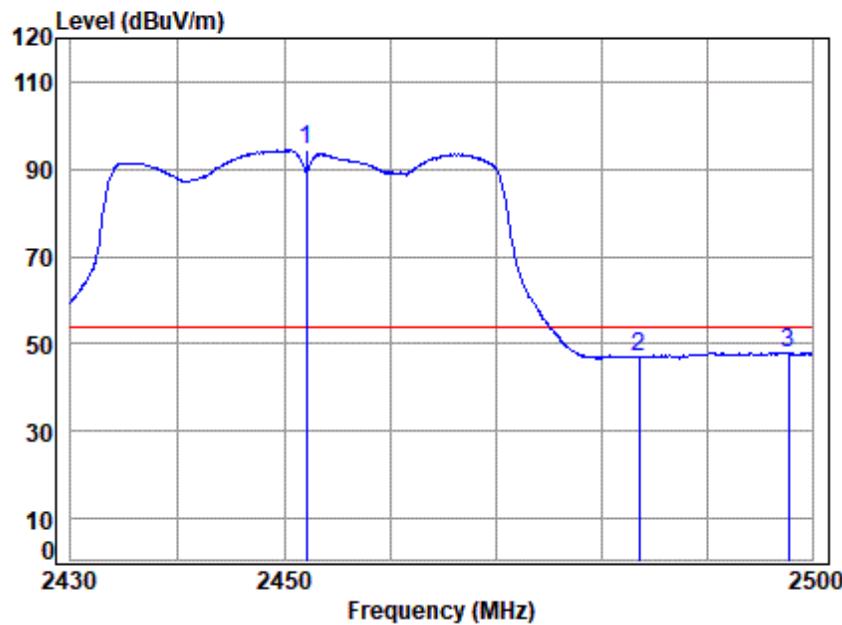


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2452 Band edge
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 *	2452.000	4.44	28.62	40.45	101.72	94.33	54.00	40.33	Average
2	2483.500	4.49	28.67	40.47	54.48	47.17	54.00	-6.83	Average
3	2497.729	4.52	28.70	40.47	55.23	47.98	54.00	-6.02	Average

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7.7 Radiated Spurious Emissions

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

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

Measurement Distance: 3m

Limit:

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

Humidity: 50.3 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode. Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

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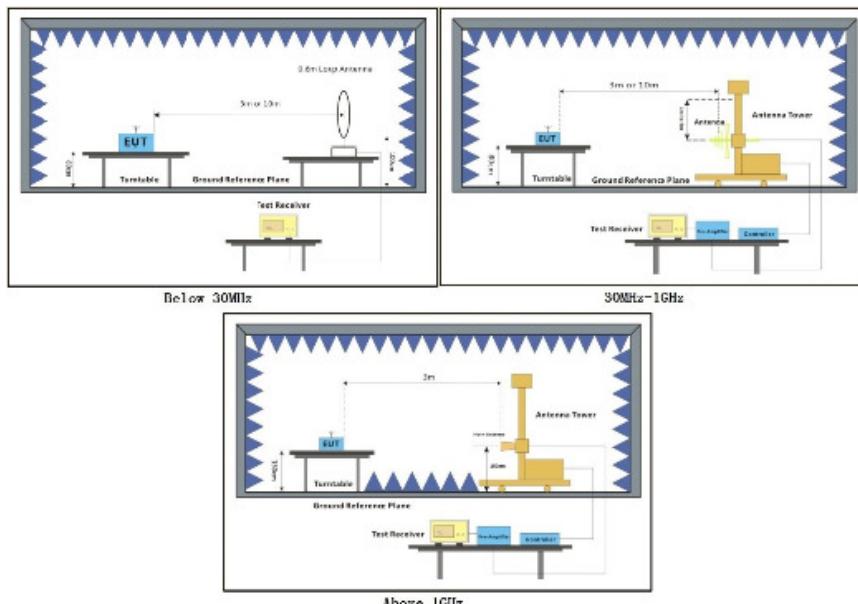
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7.7.3 Test Setup Diagram



7.7.4 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 middle 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) For emission below 1GHz, 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 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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

5). For Boat WLAN(AP mode), Pretest the EUT at AP1 antenna and AP2 antenna, found the AP1 antenna which is worst case for 802.11b/g mode; Pretest the EUT at AP1 antenna, AP2 antenna and MIMO mode, found the MIMO mode which is worst case for 802.11n HT20 and 802.11n HT40 mode;

For Dock WLAN(Station mode), Pretest the EUT at Sinclair1 Antenna, Sinclair2 Antenna, SANAV1 Antenna and SANAV2 antenna, found the Sinclair1 Antenna and SANAV1 Antenna which is worst case for 802.11b/g mode; Pretest the EUT at Sinclair1 Antenna, Sinclair2 Antenna, SANAV1 Antenna, SANAV2 antenna and MIMO mode, found the MIMO mode which is worst case for 802.11n HT20 and 802.11n HT40 mode;

So, Only the worst test data is recorded in the report.



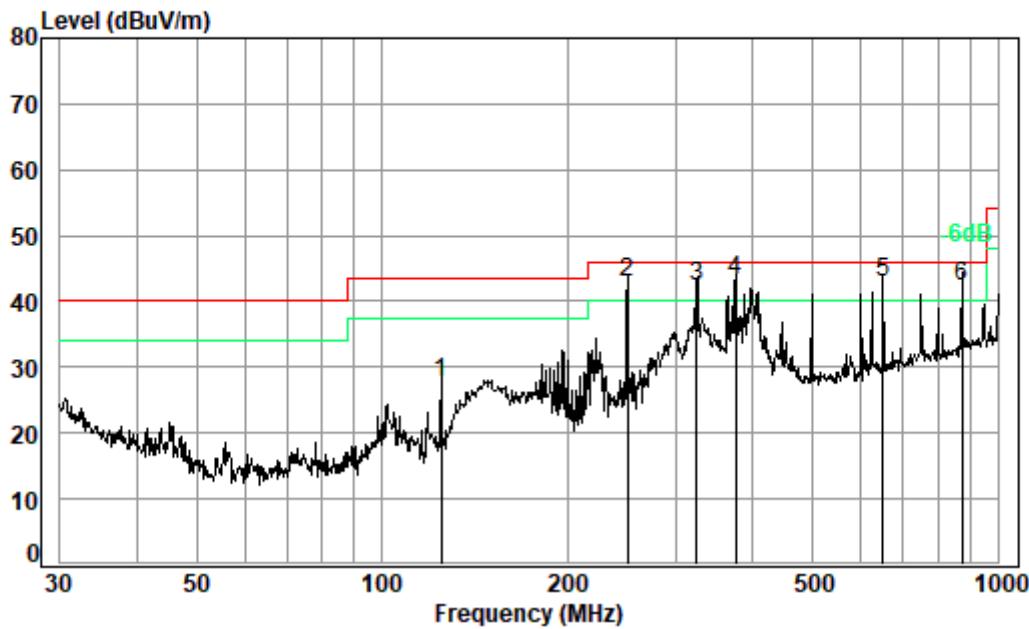
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No. : 00028CR

Test Mode: 01

Freq	Cable	Ant	Preamplifier	Read	Limit	Over	Remark	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	125.01	1.13	12.74	27.46	41.38	27.79	43.50	-15.71 QP
2	250.30	1.64	18.20	26.99	49.97	42.82	46.00	-3.18 QP
3	324.46	2.08	19.98	27.01	47.10	42.15	46.00	-3.85 QP
4 pp	374.62	2.23	22.20	27.27	45.90	43.06	46.00	-2.94 QP
5	649.66	2.80	26.30	28.02	41.74	42.82	46.00	-3.18 QP
6	875.25	3.45	28.94	27.30	37.19	42.28	46.00	-3.72 QP

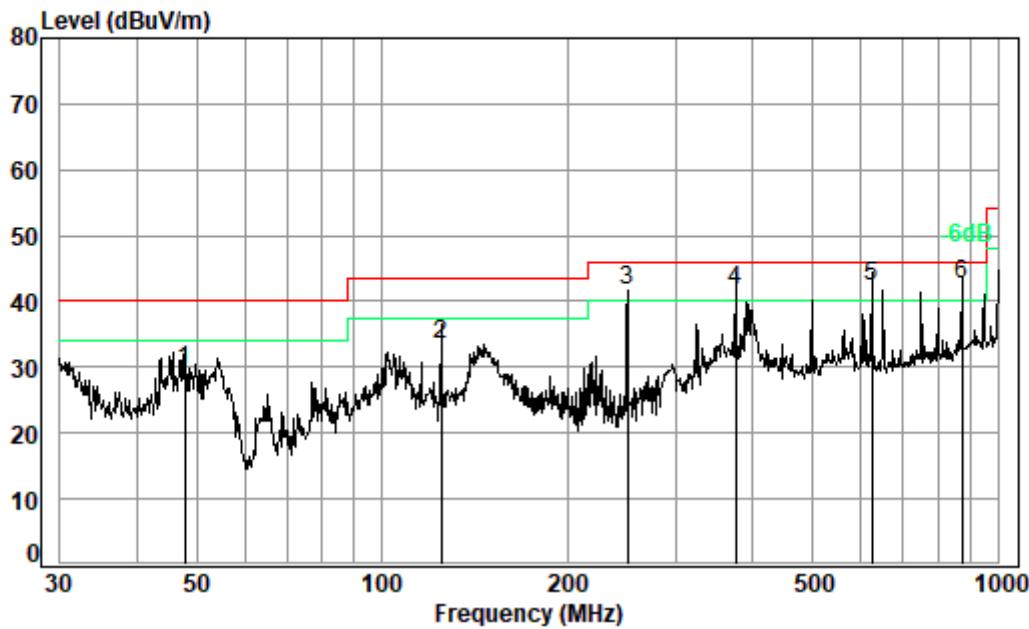
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No. : 00028CR

Test Mode: 01

Freq	Cable	Ant	Preamplifier	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	47.83	0.70	14.69	27.69	41.90	29.60	40.00 -10.40 QP
2	125.01	1.13	12.74	27.46	47.17	33.58	43.50 -9.92 QP
3	250.30	1.64	18.20	26.99	48.94	41.79	46.00 -4.21 QP
4	374.62	2.23	22.20	27.27	44.39	41.55	46.00 -4.45 QP
5	625.08	2.75	26.60	28.07	41.02	42.30	46.00 -3.70 QP
6 pp	875.25	3.45	28.94	27.30	37.65	42.74	46.00 -3.26 QP

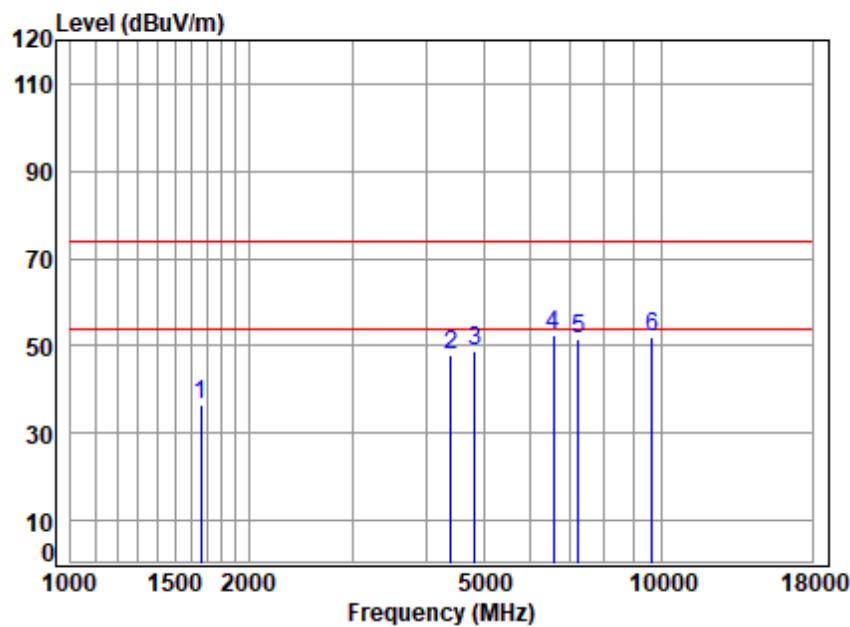
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Test data for Boat WLAN(AP mode)

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1663.137	3.40	26.52	40.04	46.71	36.59	74.00	-37.41 peak
2	4405.090	6.67	33.44	41.79	49.47	47.79	74.00	-26.21 peak
3	4824.000	7.12	34.00	42.16	49.78	48.74	74.00	-25.26 peak
4	6564.209	8.31	35.64	41.99	50.36	52.32	74.00	-21.68 peak
5	7236.000	8.77	36.09	41.48	48.38	51.76	74.00	-22.24 peak
6	9648.000	10.79	37.69	37.69	41.25	52.04	74.00	-21.96 peak

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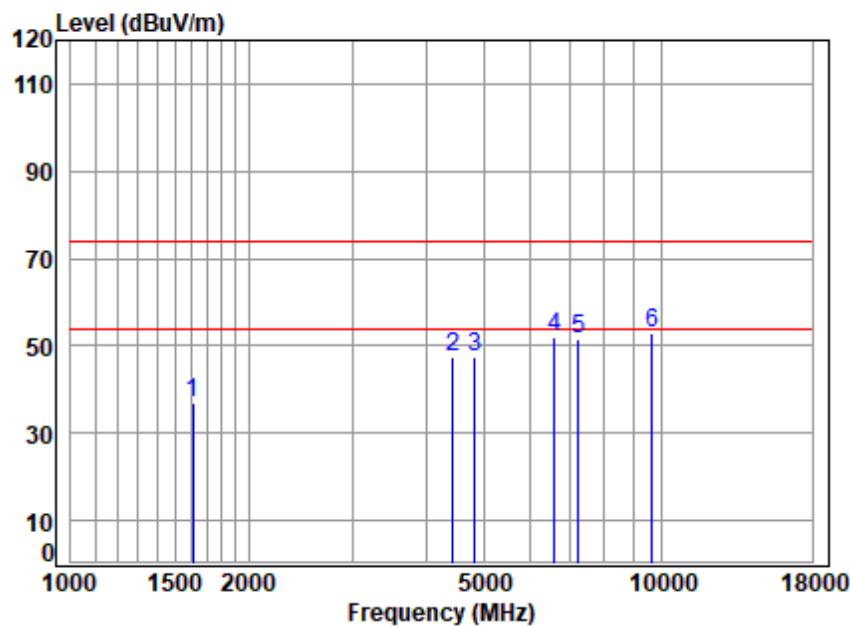
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1611.091	3.36	26.30	40.01	47.22	36.87	74.00	-37.13 peak
2	4443.453	6.71	33.50	41.82	49.27	47.66	74.00	-26.34 peak
3	4824.000	7.12	34.00	42.16	48.67	47.63	74.00	-26.37 peak
4	6583.209	8.32	35.65	41.98	49.80	51.79	74.00	-22.21 peak
5	7236.000	8.77	36.09	41.48	48.23	51.61	74.00	-22.39 peak
6	9648.000	10.79	37.69	37.69	42.15	52.94	74.00	-21.06 peak

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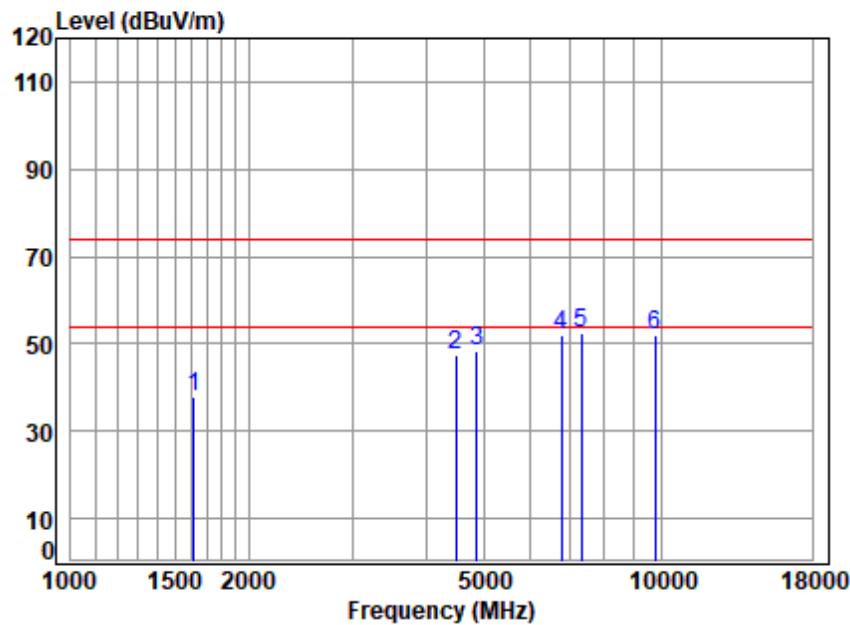
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1615.754	3.36	26.32	40.02	48.11	37.77	74.00	-36.23 peak
2	4482.150	6.74	33.57	41.86	48.94	47.39	74.00	-26.61 peak
3	4874.000	7.17	34.05	42.20	49.16	48.18	74.00	-25.82 peak
4	6776.265	8.43	35.77	41.85	49.75	52.10	74.00	-21.90 peak
5	7311.000	8.84	36.15	41.41	48.71	52.29	74.00	-21.71 peak
6	9748.000	10.76	37.75	37.52	41.25	52.24	74.00	-21.76 peak

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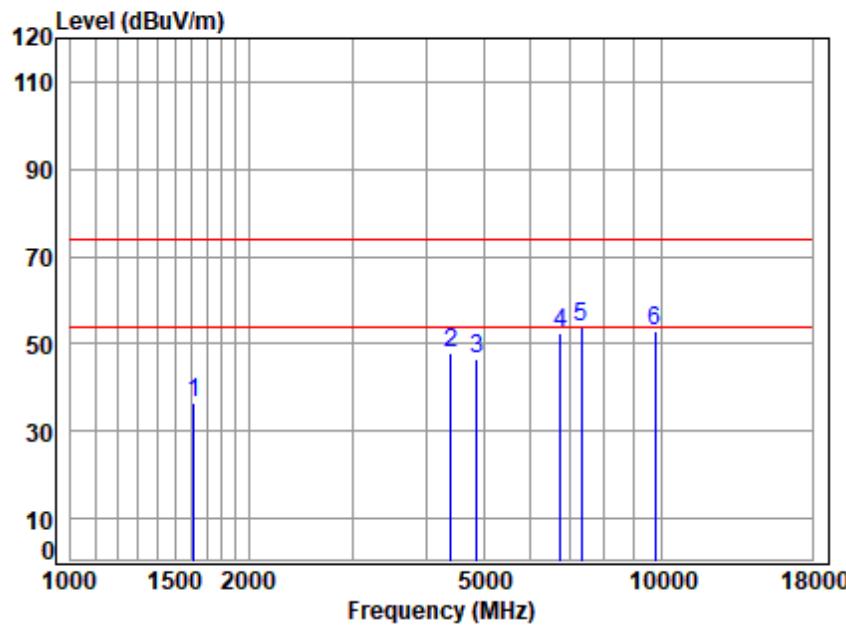
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1615.754	3.36	26.32	40.02	46.87	36.53	74.00	-37.47 peak
2	4405.090	6.67	33.44	41.79	49.55	47.87	74.00	-26.13 peak
3	4874.000	7.17	34.05	42.20	47.73	46.75	74.00	-27.25 peak
4	6756.708	8.42	35.76	41.86	49.99	52.31	74.00	-21.69 peak
5	7311.000	8.84	36.15	41.41	50.07	53.65	74.00	-20.35 peak
6	9748.000	10.76	37.75	37.52	41.91	52.90	74.00	-21.10 peak

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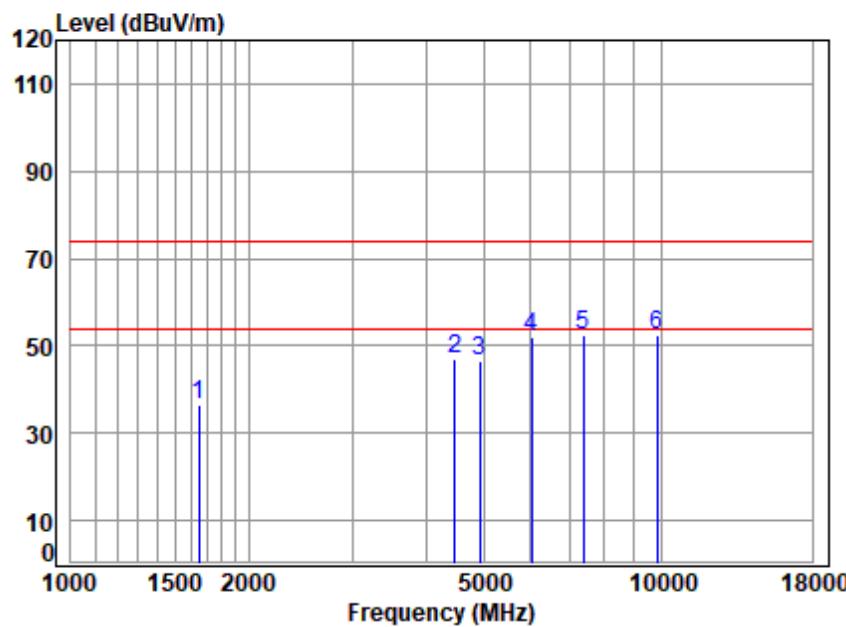
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



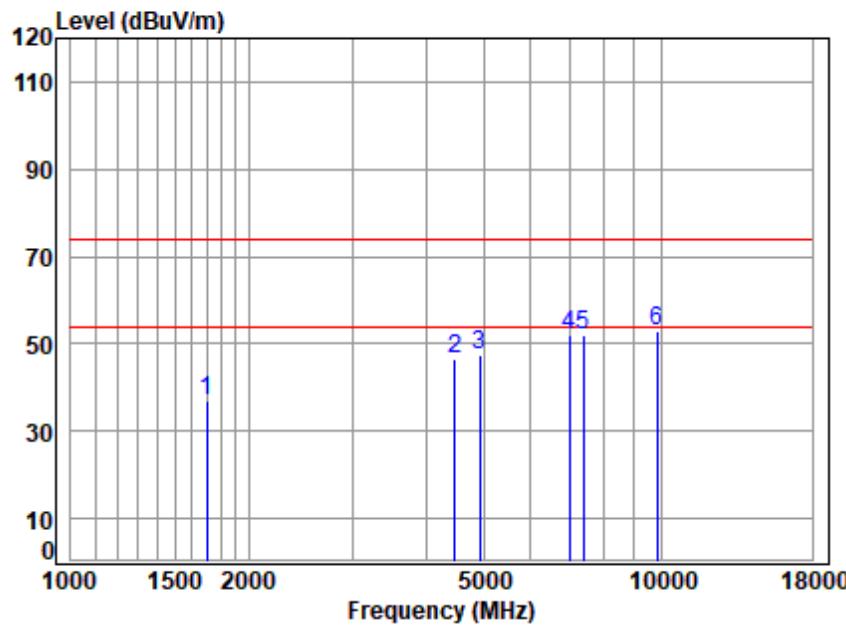
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1648.778	3.39	26.46	40.03	46.84	36.66	74.00	-37.34 peak
2	4469.214	6.73	33.55	41.85	48.36	46.79	74.00	-27.21 peak
3	4924.000	7.22	34.11	42.24	47.37	46.46	74.00	-27.54 peak
4	6036.421	8.26	35.14	42.37	50.97	52.00	74.00	-22.00 peak
5	7386.000	8.91	36.21	41.34	48.57	52.35	74.00	-21.65 peak
6	9848.000	10.73	37.81	37.35	41.27	52.46	74.00	-21.54 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1697.129	3.43	26.66	40.06	47.05	37.08	74.00	-36.92 peak
2 4469.214	6.73	33.55	41.85	47.99	46.42	74.00	-27.58 peak
3 4924.000	7.22	34.11	42.24	48.31	47.40	74.00	-26.60 peak
4 6995.172	8.54	35.90	41.70	49.34	52.08	74.00	-21.92 peak
5 7386.000	8.91	36.21	41.34	48.12	51.90	74.00	-22.10 peak
6 9848.000	10.73	37.81	37.35	41.64	52.83	74.00	-21.17 peak

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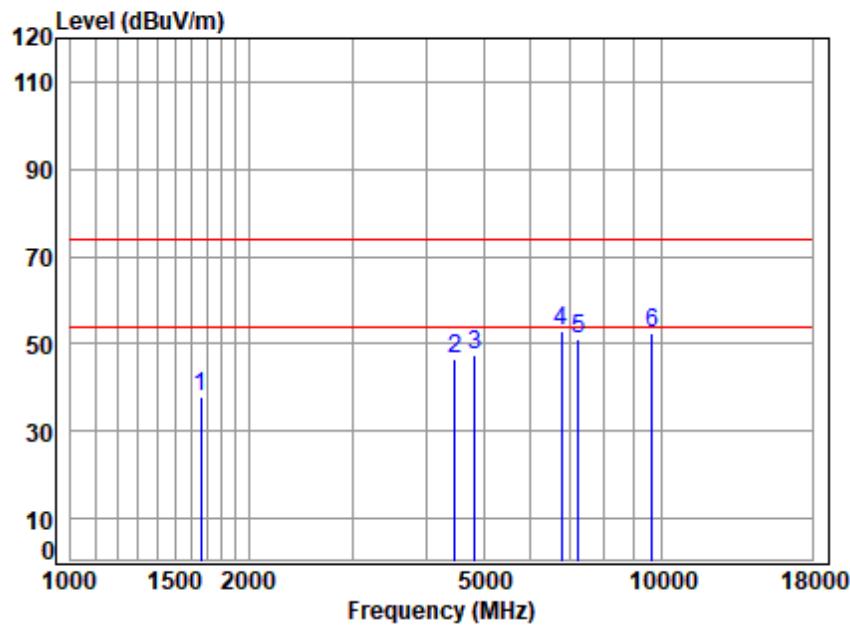
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1	1658.337	3.40	26.50	40.04	47.95	37.81	74.00	-36.19	peak
2	4469.214	6.73	33.55	41.85	48.16	46.59	74.00	-27.41	peak
3	4824.000	7.12	34.00	42.16	48.37	47.33	74.00	-26.67	peak
4	6776.265	8.43	35.77	41.85	50.59	52.94	74.00	-21.06	peak
5	7236.000	8.77	36.09	41.48	47.64	51.02	74.00	-22.98	peak
6	9648.000	10.79	37.69	37.69	41.84	52.63	74.00	-21.37	peak

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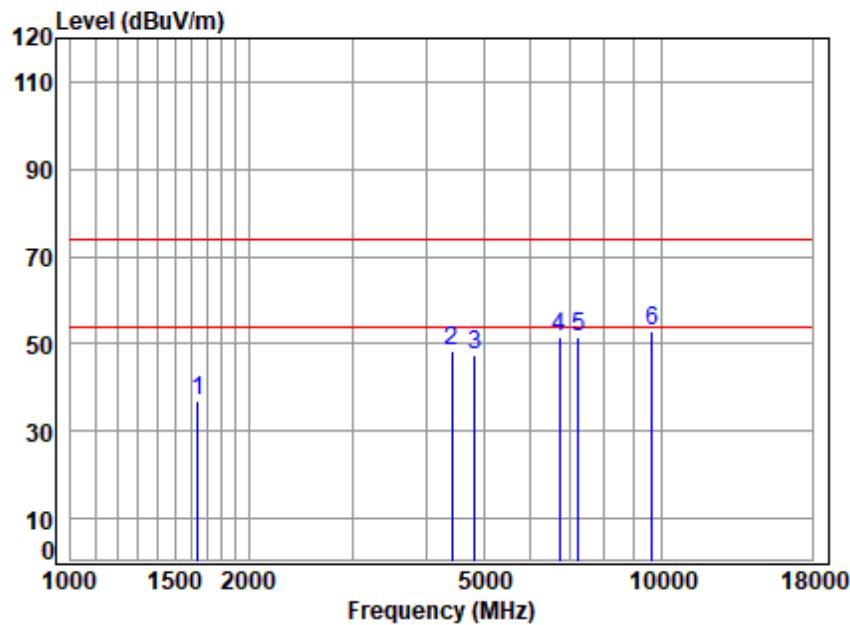
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11G

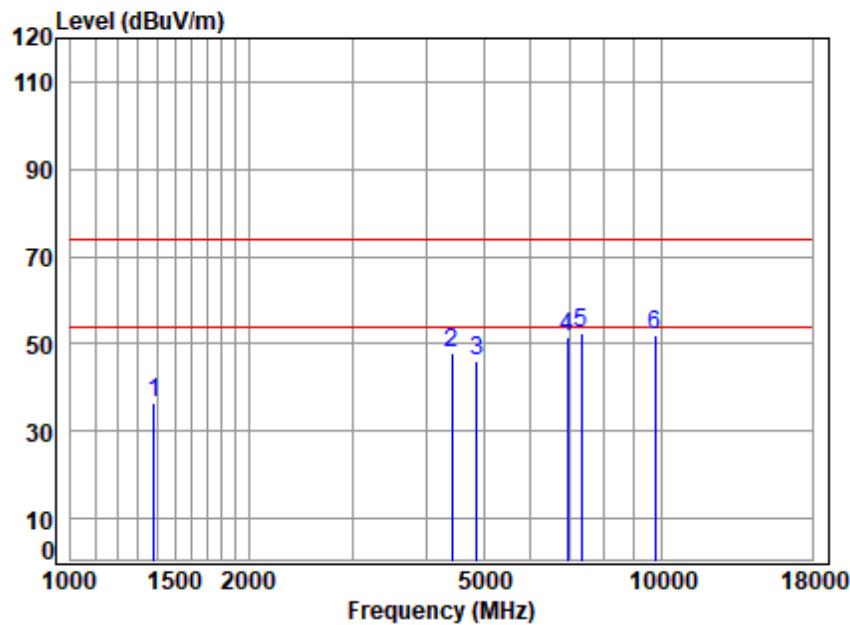
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1644.019	3.38	26.44	40.03	47.35	37.14	74.00	-36.86 peak
2 4417.841	6.68	33.46	41.80	49.93	48.27	74.00	-25.73 peak
3 4824.000	7.12	34.00	42.16	48.30	47.26	74.00	-26.74 peak
4 6717.762	8.40	35.73	41.89	49.36	51.60	74.00	-22.40 peak
5 7236.000	8.77	36.09	41.48	47.98	51.36	74.00	-22.64 peak
6 9648.000	10.79	37.69	37.69	42.21	53.00	74.00	-21.00 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1386.264	3.08	25.37	39.88	47.82	36.39	74.00	-37.61 peak
2	4417.841	6.68	33.46	41.80	49.38	47.72	74.00	-26.28 peak
3	4874.000	7.17	34.05	42.20	47.12	46.14	74.00	-27.86 peak
4	6934.778	8.51	35.86	41.74	49.02	51.65	74.00	-22.35 peak
5	7311.000	8.84	36.15	41.41	48.72	52.30	74.00	-21.70 peak
6	9748.000	10.76	37.75	37.52	41.15	52.14	74.00	-21.86 peak

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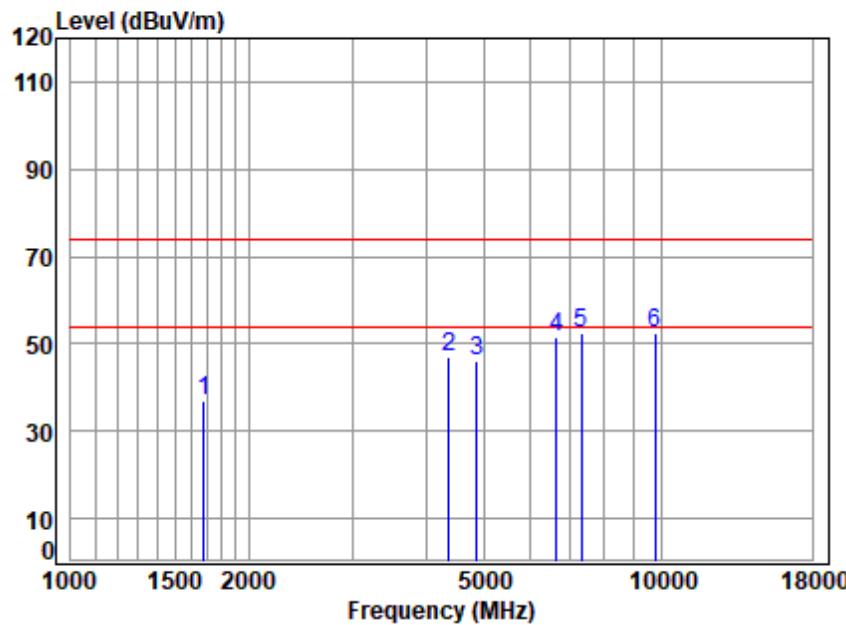
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1682.477	3.42	26.60	40.05	46.98	36.95	74.00	-37.05 peak
2	4367.058	6.64	33.37	41.75	48.88	47.14	74.00	-26.86 peak
3	4874.000	7.17	34.05	42.20	47.04	46.06	74.00	-27.94 peak
4	6640.542	8.36	35.69	41.94	49.66	51.77	74.00	-22.23 peak
5	7311.000	8.84	36.15	41.41	49.00	52.58	74.00	-21.42 peak
6	9748.000	10.76	37.75	37.52	41.68	52.67	74.00	-21.33 peak

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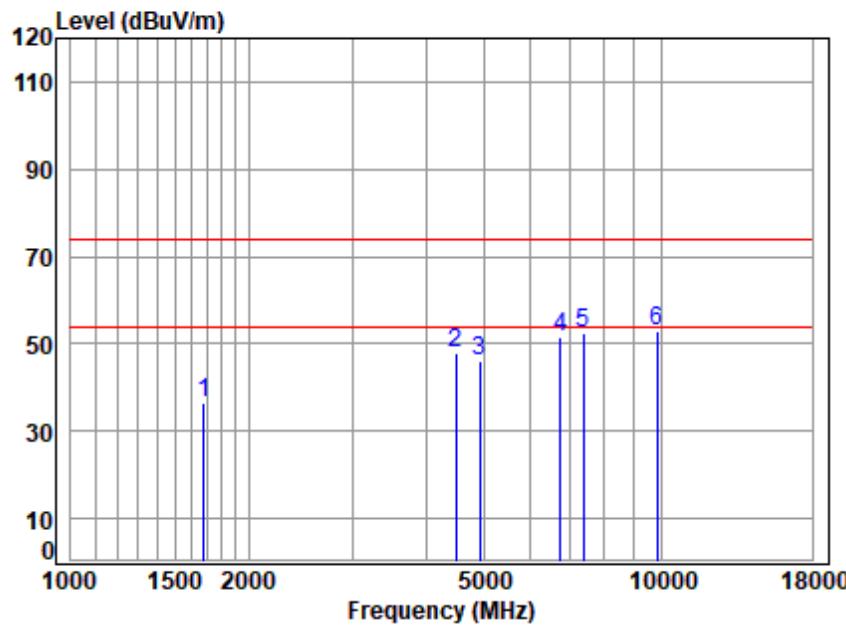
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1677.621	3.41	26.58	40.05	46.46	36.40	74.00	-37.60 peak
2	4482.150	6.74	33.57	41.86	49.59	48.04	74.00	-25.96 peak
3	4924.000	7.22	34.11	42.24	47.11	46.20	74.00	-27.80 peak
4	6737.207	8.41	35.75	41.87	49.47	51.76	74.00	-22.24 peak
5	7386.000	8.91	36.21	41.34	48.91	52.69	74.00	-21.31 peak
6	9848.000	10.73	37.81	37.35	41.62	52.81	74.00	-21.19 peak

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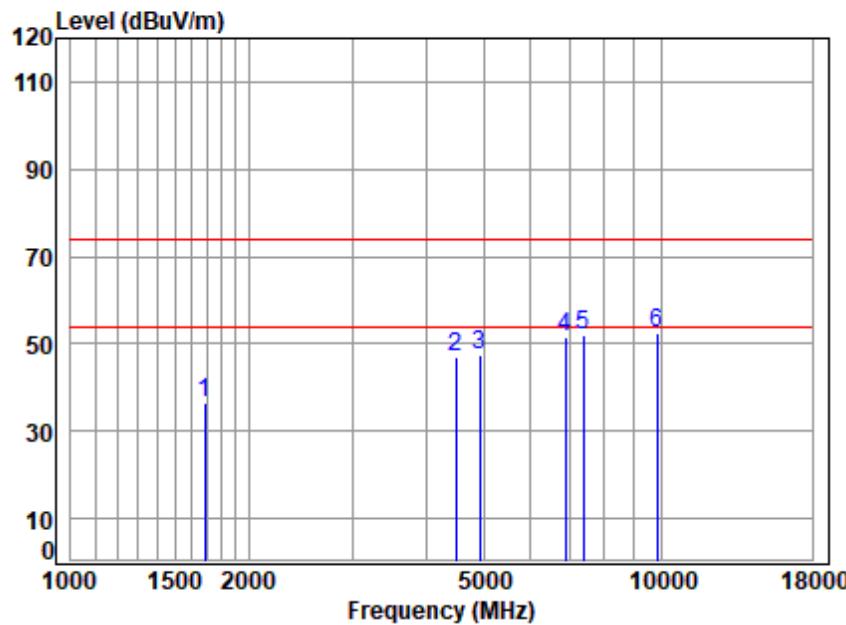
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



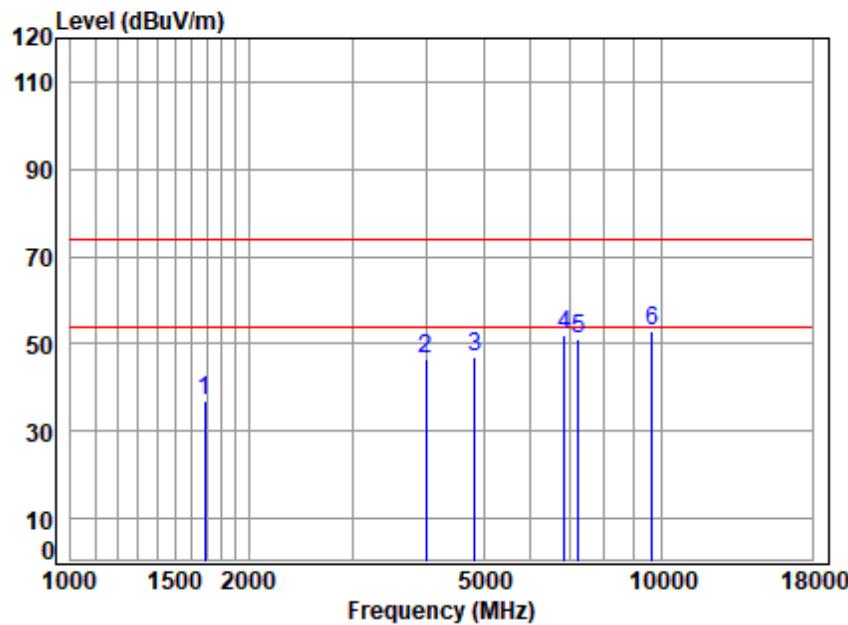
Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1687.347	3.42	26.62	40.05	46.59	36.58	74.00	-37.42 peak
2	4482.150	6.74	33.57	41.86	48.66	47.11	74.00	-26.89 peak
3	4924.000	7.22	34.11	42.24	48.56	47.65	74.00	-26.35 peak
4	6874.906	8.48	35.83	41.78	49.05	51.58	74.00	-22.42 peak
5	7386.000	8.91	36.21	41.34	48.21	51.99	74.00	-22.01 peak
6	9848.000	10.73	37.81	37.35	41.06	52.25	74.00	-21.75 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1687.347	3.42	26.62	40.05	46.80	36.79	74.00	-37.21 peak
2	3992.781	6.27	32.69	41.40	48.95	46.51	74.00	-27.49 peak
3	4824.000	7.12	34.00	42.16	48.08	47.04	74.00	-26.96 peak
4	6855.063	8.47	35.82	41.80	49.55	52.04	74.00	-21.96 peak
5	7236.000	8.77	36.09	41.48	47.64	51.02	74.00	-22.98 peak
6	9648.000	10.79	37.69	37.69	42.00	52.79	74.00	-21.21 peak

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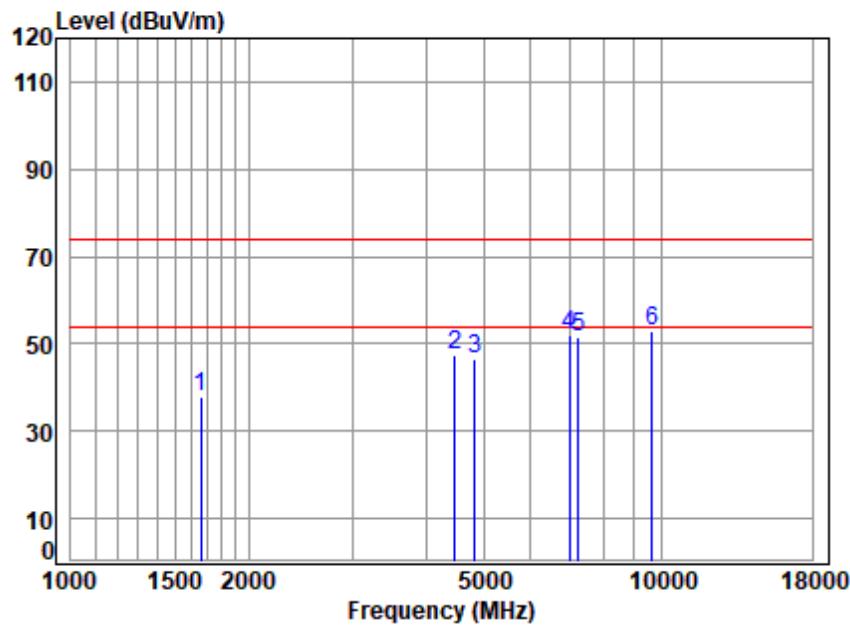
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1	1663.137	3.40	26.52	40.04	47.93	37.81	74.00 -36.19 peak
2	4469.214	6.73	33.55	41.85	48.84	47.27	74.00 -26.73 peak
3	4824.000	7.12	34.00	42.16	47.70	46.66	74.00 -27.34 peak
4	6974.982	8.53	35.89	41.72	49.17	51.87	74.00 -22.13 peak
5	7236.000	8.77	36.09	41.48	47.97	51.35	74.00 -22.65 peak
6	9648.000	10.79	37.69	37.69	41.91	52.70	74.00 -21.30 peak

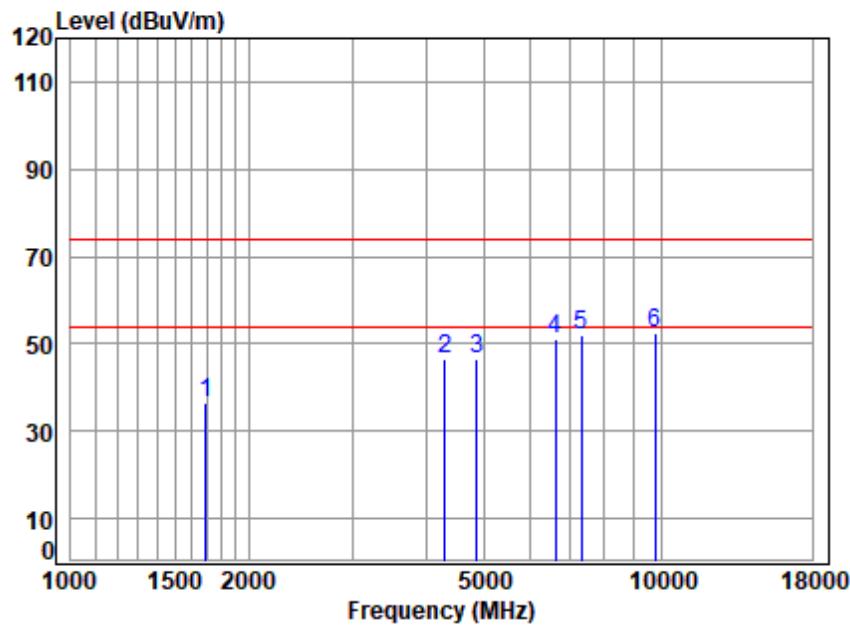
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1692.231	3.42	26.64	40.06	46.36	36.36	74.00	-37.64 peak
2	4304.400	6.58	33.26	41.70	48.19	46.33	74.00	-27.67 peak
3	4874.000	7.17	34.05	42.20	47.60	46.62	74.00	-27.38 peak
4	6621.375	8.34	35.67	41.95	49.16	51.22	74.00	-22.78 peak
5	7311.000	8.84	36.15	41.41	48.23	51.81	74.00	-22.19 peak
6	9748.000	10.76	37.75	37.52	41.27	52.26	74.00	-21.74 peak

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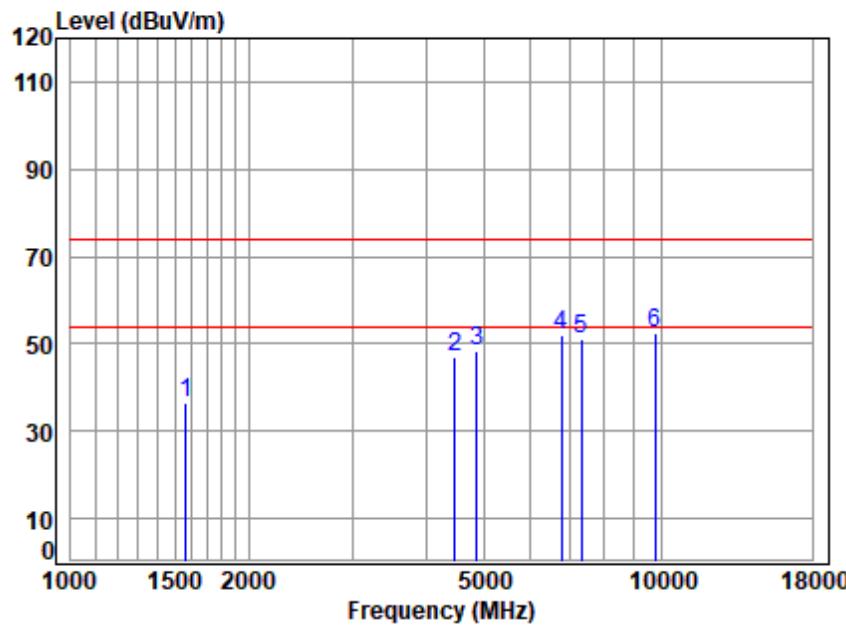
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1565.191	3.32	26.10	39.99	46.87	36.30	74.00	-37.70 peak
2	4469.214	6.73	33.55	41.85	48.67	47.10	74.00	-26.90 peak
3	4874.000	7.17	34.05	42.20	49.20	48.22	74.00	-25.78 peak
4	6776.265	8.43	35.77	41.85	49.53	51.88	74.00	-22.12 peak
5	7311.000	8.84	36.15	41.41	47.67	51.25	74.00	-22.75 peak
6	9748.000	10.76	37.75	37.52	41.34	52.33	74.00	-21.67 peak

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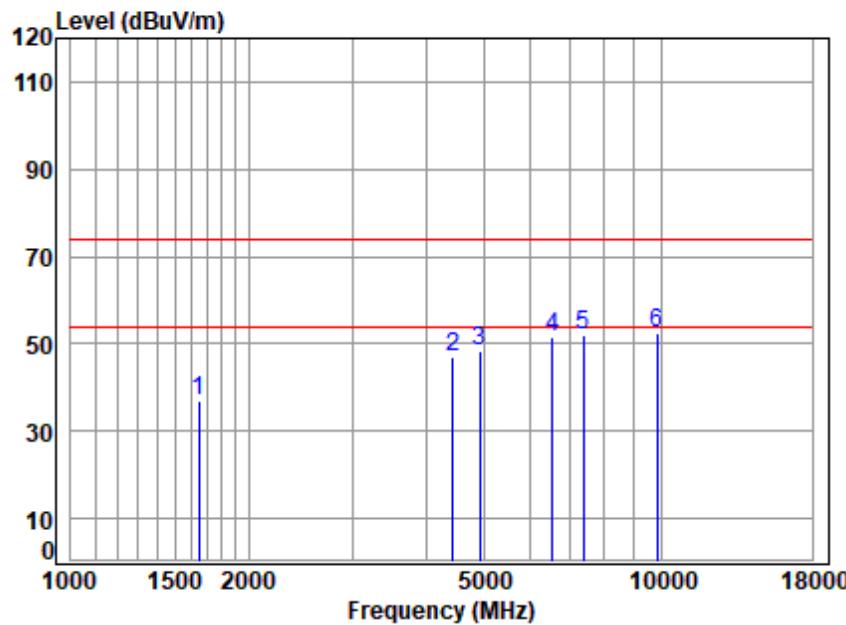
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1648.778	3.39	26.46	40.03	47.32	37.14	74.00	-36.86 peak
2	4443.453	6.71	33.50	41.82	48.51	46.90	74.00	-27.10 peak
3	4924.000	7.22	34.11	42.24	49.46	48.55	74.00	-25.45 peak
4	6545.263	8.30	35.63	42.01	49.78	51.70	74.00	-22.30 peak
5	7386.000	8.91	36.21	41.34	48.02	51.80	74.00	-22.20 peak
6	9848.000	10.73	37.81	37.35	41.11	52.30	74.00	-21.70 peak

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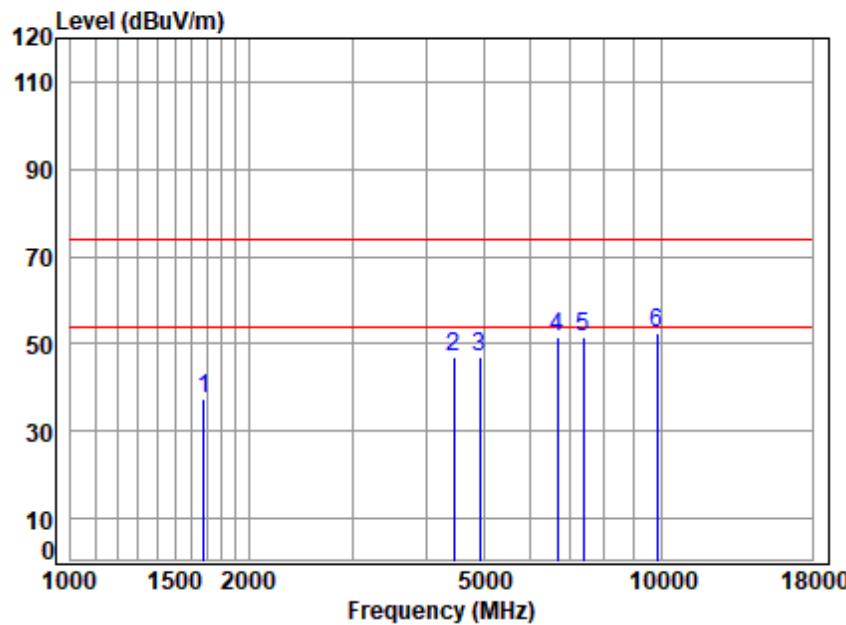
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11N20

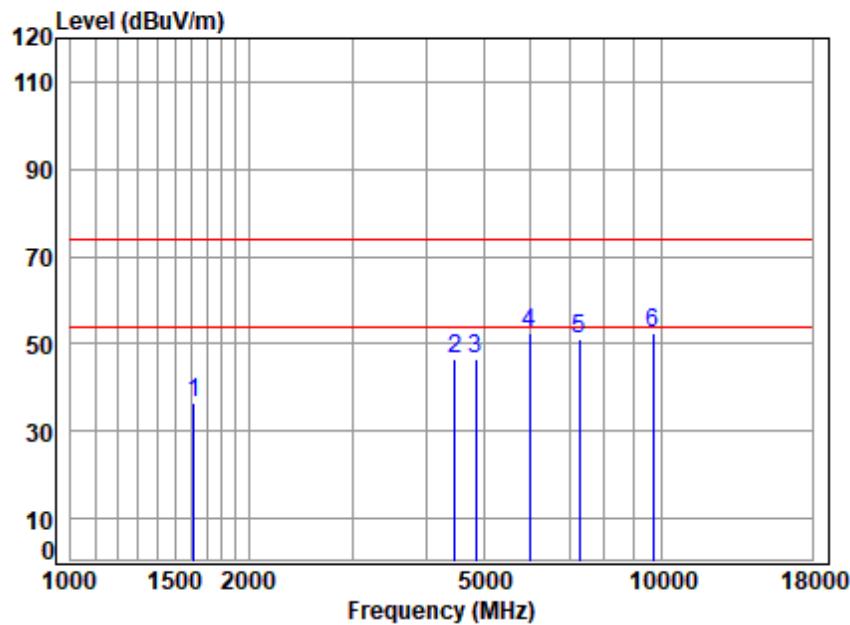
	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1677.621	3.41	26.58	40.05	47.61	37.55	74.00	-36.45 peak
2	4456.315	6.72	33.53	41.84	48.68	47.09	74.00	-26.91 peak
3	4924.000	7.22	34.11	42.24	47.81	46.90	74.00	-27.10 peak
4	6659.763	8.37	35.70	41.93	49.20	51.34	74.00	-22.66 peak
5	7386.000	8.91	36.21	41.34	47.99	51.77	74.00	-22.23 peak
6	9848.000	10.73	37.81	37.35	41.07	52.26	74.00	-21.74 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2422 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1615.754	3.36	26.32	40.02	46.96	36.62	74.00	-37.38 peak
2	4469.214	6.73	33.55	41.85	48.23	46.66	74.00	-27.34 peak
3	4844.000	7.14	34.02	42.17	47.41	46.40	74.00	-27.60 peak
4	5984.305	8.26	35.08	42.40	51.56	52.50	74.00	-21.50 peak
5	7266.000	8.79	36.12	41.45	47.63	51.09	74.00	-22.91 peak
6	9688.000	10.78	37.71	37.63	41.43	52.29	74.00	-21.71 peak

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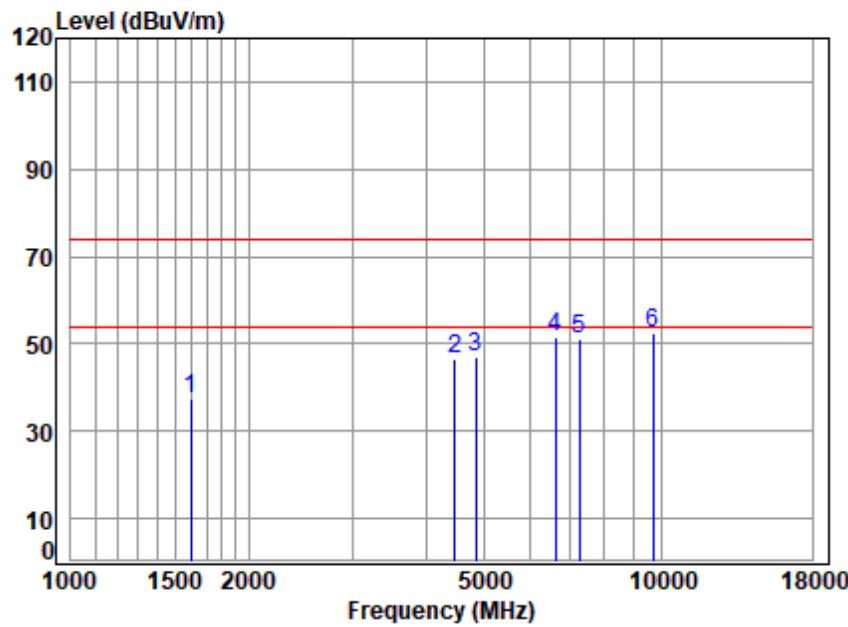
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2422 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1597.181	3.35	26.24	40.01	47.85	37.43	74.00	-36.57 peak
2	4469.214	6.73	33.55	41.85	48.17	46.60	74.00	-27.40 peak
3	4844.000	7.14	34.02	42.17	48.00	46.99	74.00	-27.01 peak
4	6621.375	8.34	35.67	41.95	49.44	51.50	74.00	-22.50 peak
5	7266.000	8.79	36.12	41.45	47.57	51.03	74.00	-22.97 peak
6	9688.000	10.78	37.71	37.63	41.53	52.39	74.00	-21.61 peak

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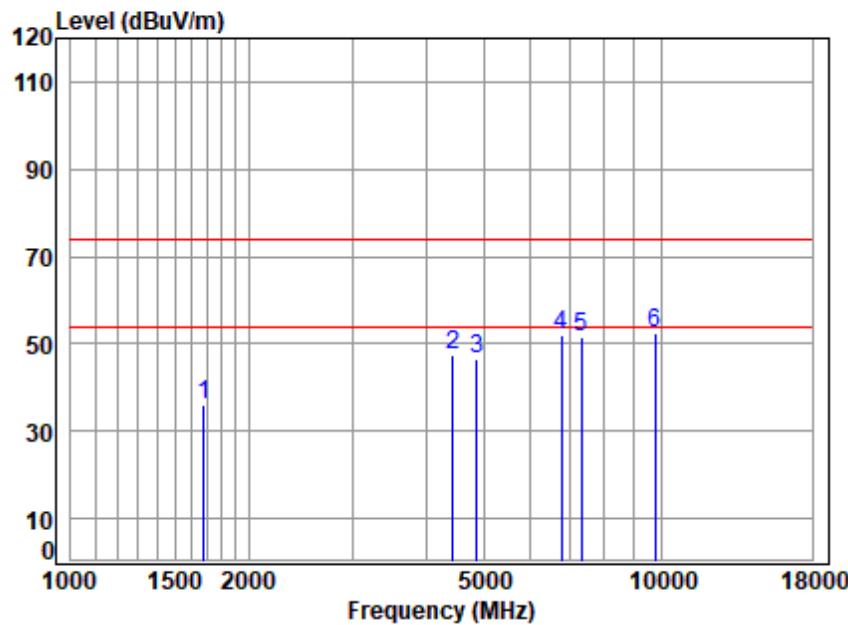
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1677.621	3.41	26.58	40.05	46.23	36.17	74.00	-37.83 peak
2	4443.453	6.71	33.50	41.82	49.19	47.58	74.00	-26.42 peak
3	4874.000	7.17	34.05	42.20	47.64	46.66	74.00	-27.34 peak
4	6776.265	8.43	35.77	41.85	49.65	52.00	74.00	-22.00 peak
5	7311.000	8.84	36.15	41.41	47.96	51.54	74.00	-22.46 peak
6	9748.000	10.76	37.75	37.52	41.58	52.57	74.00	-21.43 peak

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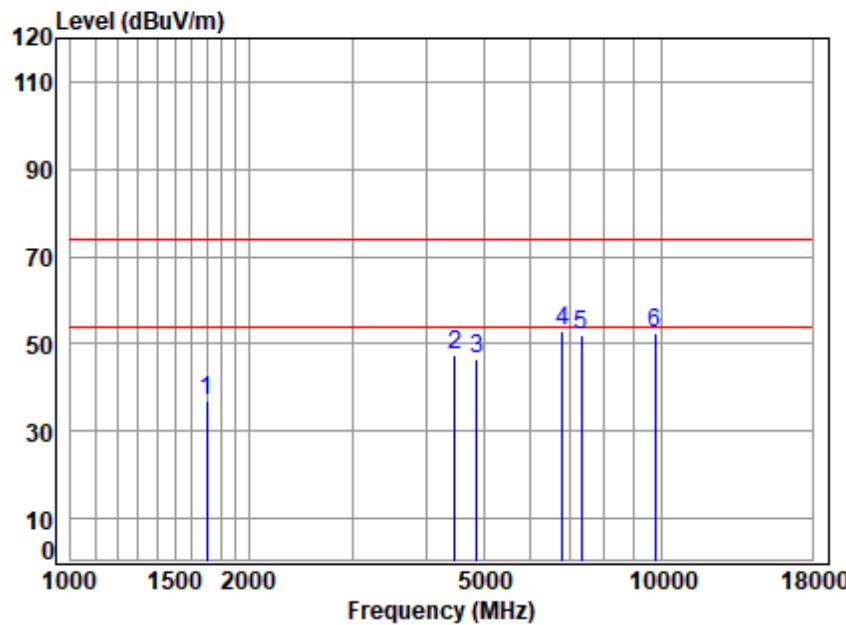
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1702.042	3.43	26.68	40.06	47.08	37.13	74.00	-36.87 peak
2 4469.214	6.73	33.55	41.85	49.25	47.68	74.00	-26.32 peak
3 4874.000	7.17	34.05	42.20	47.58	46.60	74.00	-27.40 peak
4 6795.879	8.44	35.78	41.83	50.36	52.75	74.00	-21.25 peak
5 7311.000	8.84	36.15	41.41	48.65	52.23	74.00	-21.77 peak
6 9748.000	10.76	37.75	37.52	41.53	52.52	74.00	-21.48 peak

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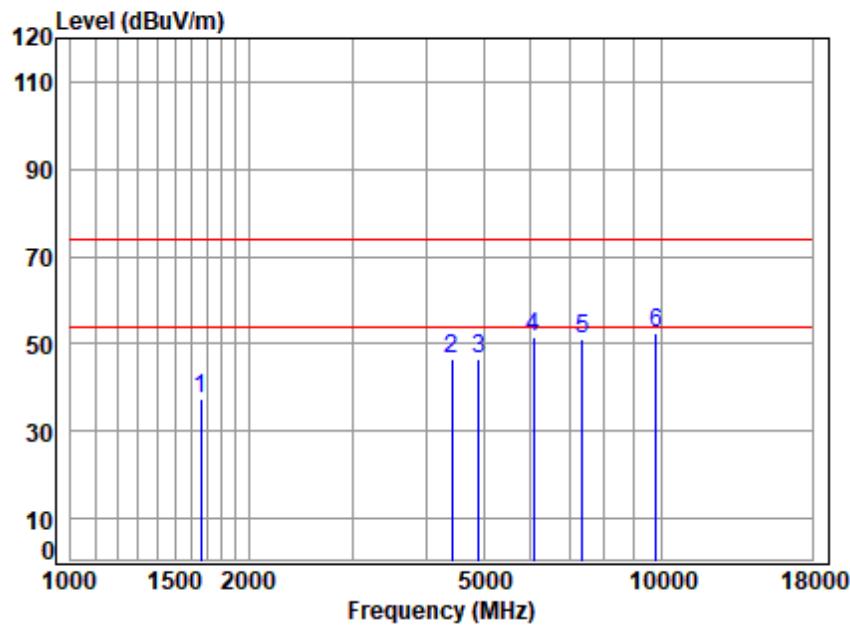
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2452 TX RSE
 Note : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1658.337	3.40	26.50	40.04	47.45	37.31	74.00 -36.69 peak
2	4417.841	6.68	33.46	41.80	48.15	46.49	74.00 -27.51 peak
3	4904.000	7.20	34.09	42.22	47.64	46.71	74.00 -27.29 peak
4	6071.417	8.26	35.17	42.35	50.33	51.41	74.00 -22.59 peak
5	7356.000	8.88	36.19	41.37	47.62	51.32	74.00 -22.68 peak
6	9808.000	10.75	37.79	37.42	41.32	52.44	74.00 -21.56 peak

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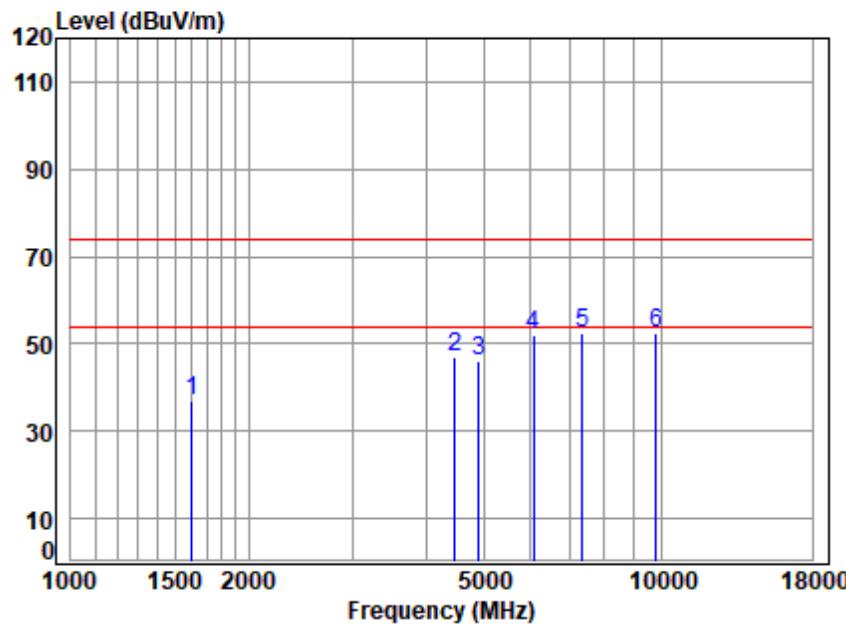
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2452 TX RSE
 Note : 2.4G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1601.804	3.35	26.26	40.01	47.25	36.85	74.00	-37.15 peak
2	4469.214	6.73	33.55	41.85	48.37	46.80	74.00	-27.20 peak
3	4904.000	7.20	34.09	42.22	46.85	45.92	74.00	-28.08 peak
4	6071.417	8.26	35.17	42.35	50.74	51.82	74.00	-22.18 peak
5	7356.000	8.88	36.19	41.37	48.69	52.39	74.00	-21.61 peak
6	9808.000	10.75	37.79	37.42	41.34	52.46	74.00	-21.54 peak

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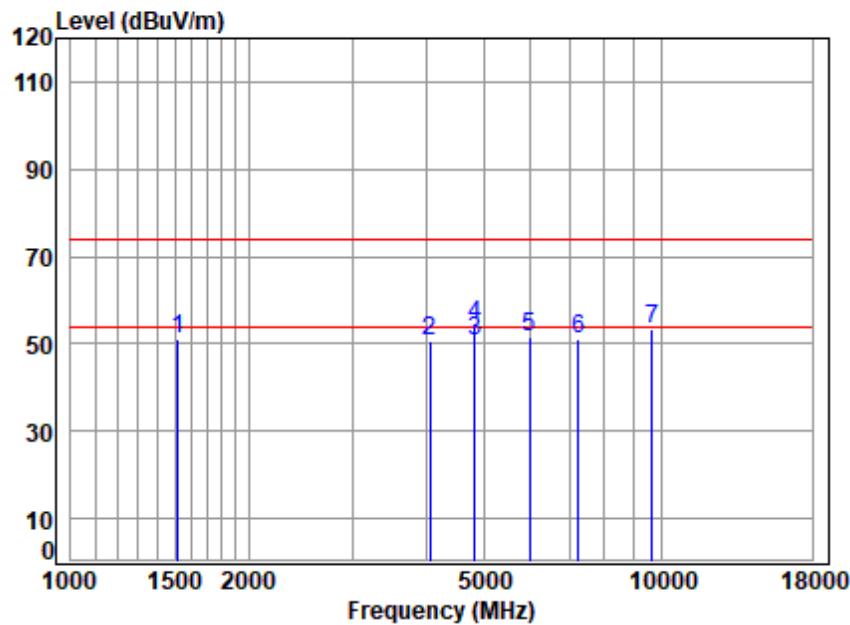


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Test data for Dock WLAN(Station mode, Sinclair Antenna)

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 TX SE
 Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1516.210	3.27	25.87	39.96	61.99	51.17	74.00	-22.83 peak
2 4050.904	6.33	32.80	41.45	52.85	50.53	74.00	-23.47 peak
3 4824.000	7.12	34.01	42.16	51.83	50.80	54.00	-3.20 Average
4 4824.000	7.12	34.00	42.16	55.14	54.10	74.00	-19.90 peak
5 5984.305	8.26	35.08	42.40	50.75	51.69	74.00	-22.31 peak
6 7236.000	8.77	36.09	41.48	47.94	51.32	74.00	-22.68 peak
7 9648.000	10.79	37.69	37.69	42.62	53.41	74.00	-20.59 peak

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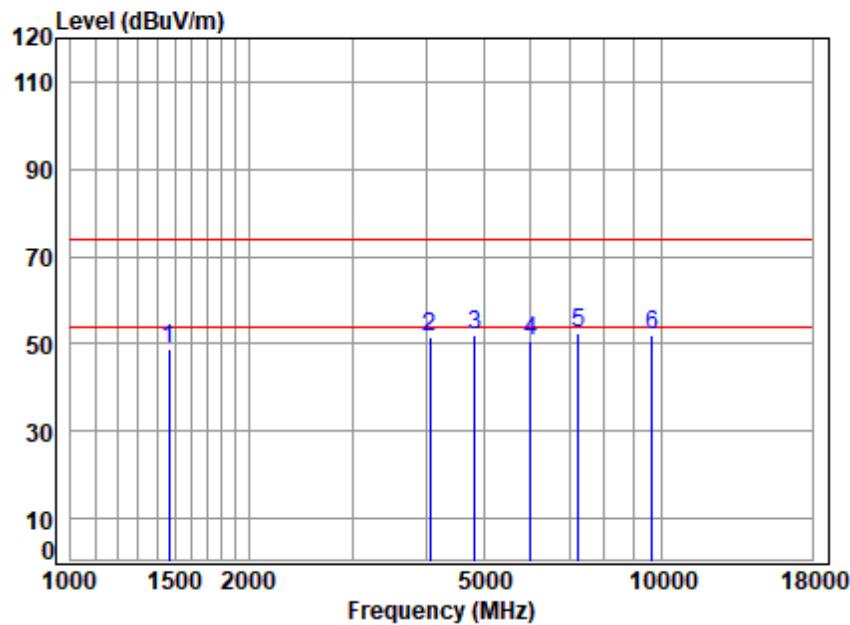
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 TX SE
 Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1468.761	3.21	25.69	39.93	59.65	48.62	74.00	-25.38 peak
2	4050.904	6.33	32.80	41.45	54.04	51.72	74.00	-22.28 peak
3	4824.000	7.12	34.00	42.16	53.16	52.12	74.00	-21.88 peak
4	6001.626	8.26	35.10	42.40	49.57	50.53	74.00	-23.47 peak
5	7236.000	8.77	36.09	41.48	49.21	52.59	74.00	-21.41 peak
6	9648.000	10.79	37.69	37.69	41.45	52.24	74.00	-21.76 peak

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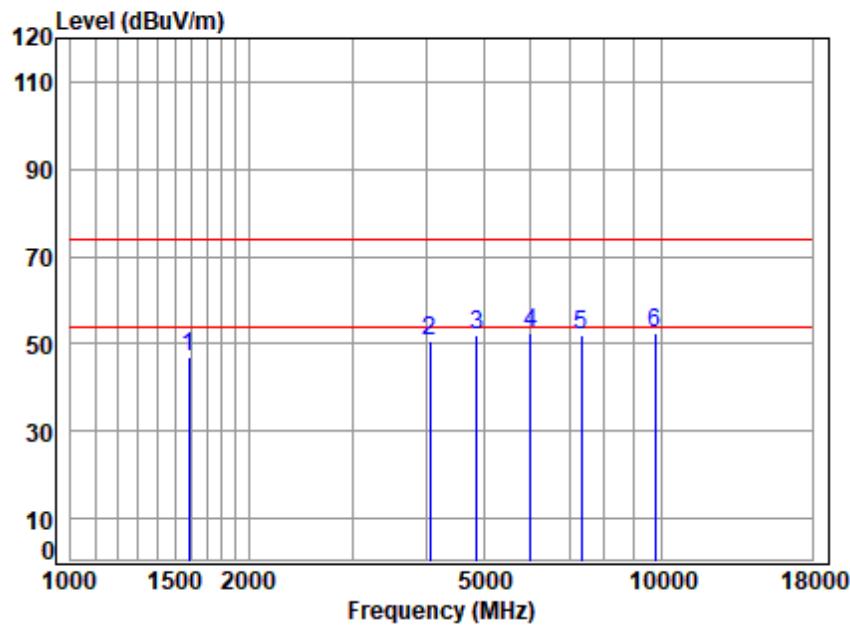
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2437 TX SE
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 1583.392	3.33	26.18	40.00	57.34	46.85	74.00	-27.15	peak
2 4050.904	6.33	32.80	41.45	52.89	50.57	74.00	-23.43	peak
3 4874.000	7.17	34.05	42.20	53.20	52.22	74.00	-21.78	peak
4 6001.626	8.26	35.10	42.40	51.29	52.25	74.00	-21.75	peak
5 7311.000	8.84	36.15	41.41	48.60	52.18	74.00	-21.82	peak
6 9748.000	10.76	37.75	37.52	41.58	52.57	74.00	-21.43	peak

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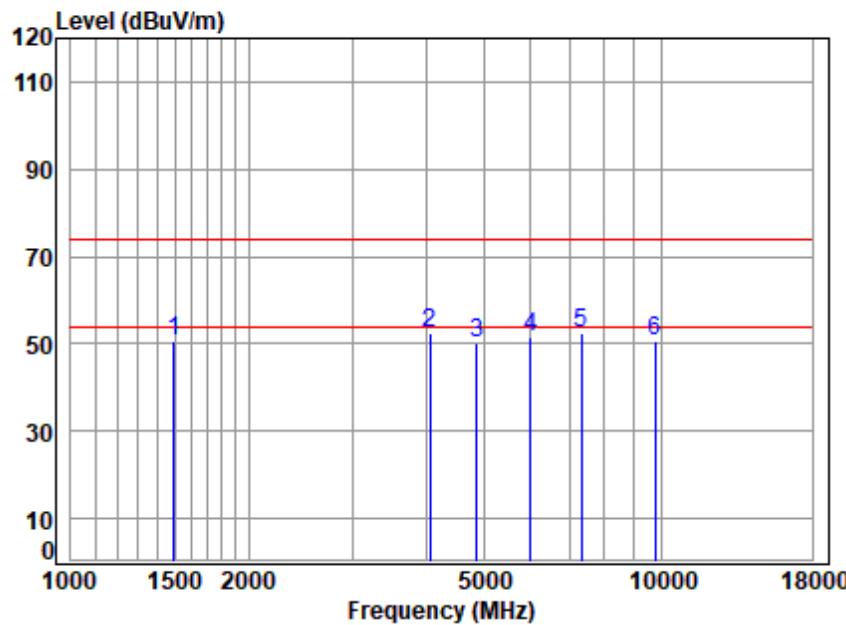
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



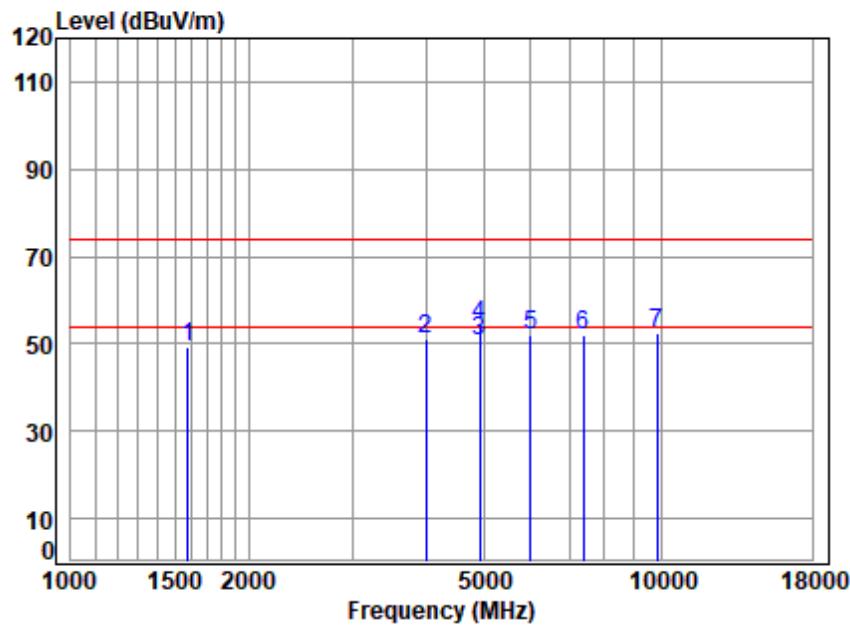
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2437 TX SE
 Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1494.455	3.25	25.78	39.95	61.34	50.42	74.00	-23.58 peak
2	4050.904	6.33	32.80	41.45	54.57	52.25	74.00	-21.75 peak
3	4874.000	7.17	34.05	42.20	51.29	50.31	74.00	-23.69 peak
4	6001.626	8.26	35.10	42.40	50.75	51.71	74.00	-22.29 peak
5	7311.000	8.84	36.15	41.41	48.99	52.57	74.00	-21.43 peak
6	9748.000	10.76	37.75	37.52	39.79	50.78	74.00	-23.22 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2462 TX SE
 Note : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1578.822	3.33	26.16	40.00	59.80	49.29	74.00	-24.71 peak
2 3992.781	6.27	32.69	41.40	53.57	51.13	74.00	-22.87 peak
3 4924.000	7.22	34.11	42.24	51.62	50.71	54.00	-3.29 Average
4 4924.000	7.22	34.11	42.24	55.06	54.15	74.00	-19.85 Peak
5 6001.626	8.26	35.10	42.40	50.97	51.93	74.00	-22.07 peak
6 7386.000	8.91	36.21	41.34	48.44	52.22	74.00	-21.78 peak
7 9848.000	10.73	37.81	37.35	41.33	52.52	74.00	-21.48 peak

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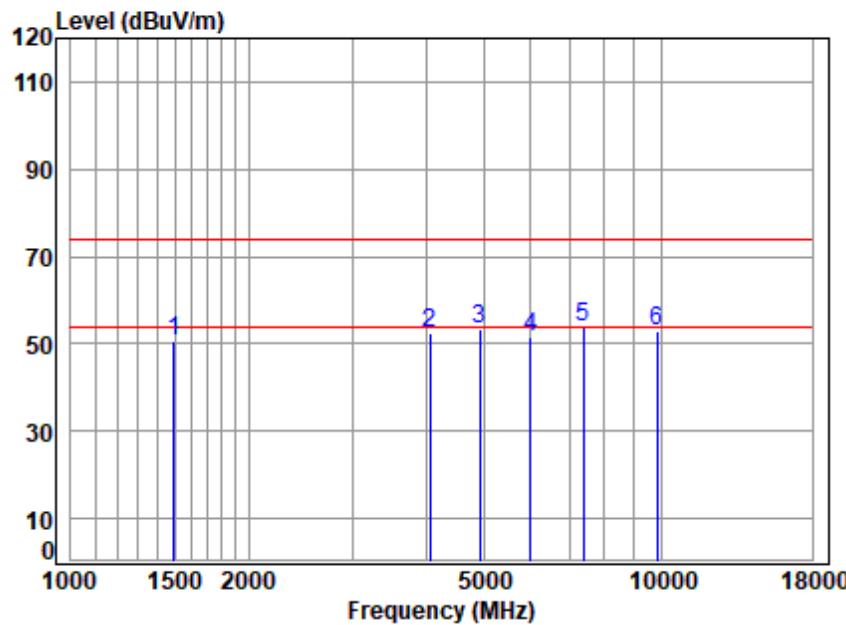
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



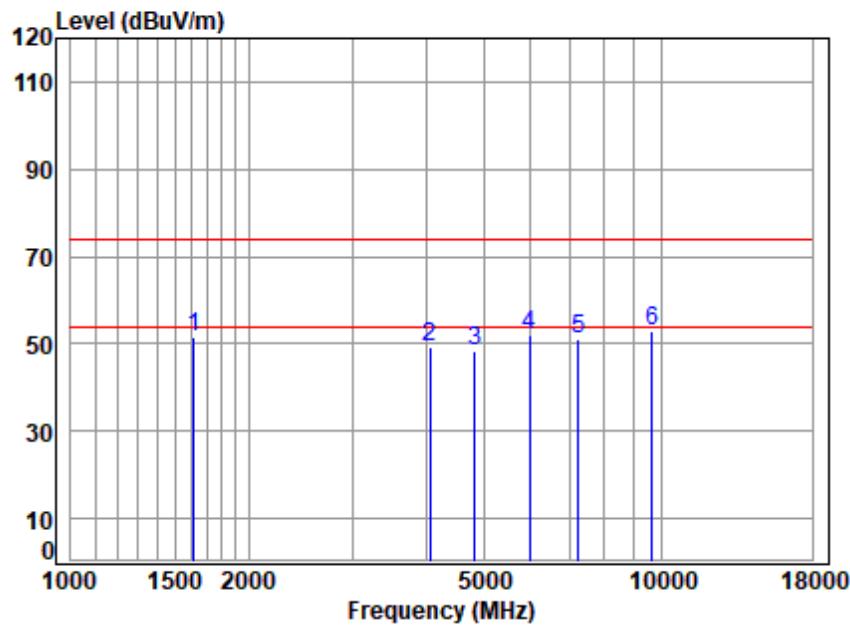
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2462 TX SE
 Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1494.455	3.25	25.78	39.95	61.58	50.66	74.00	-23.34 peak
2	4050.904	6.33	32.80	41.45	54.64	52.32	74.00	-21.68 peak
3	4924.000	7.22	34.11	42.24	54.45	53.54	74.00	-20.46 peak
4	6001.626	8.26	35.10	42.40	50.76	51.72	74.00	-22.28 peak
5	7386.000	8.91	36.21	41.34	49.99	53.77	74.00	-20.23 peak
6	9848.000	10.73	37.81	37.35	41.62	52.81	74.00	-21.19 peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 TX SE
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1615.754	3.36	26.32	40.02	61.86	51.52	74.00	-22.48	peak
2 4050.904	6.33	32.80	41.45	51.71	49.39	74.00	-24.61	peak
3 4824.000	7.12	34.00	42.16	49.45	48.41	74.00	-25.59	peak
4 5984.305	8.26	35.08	42.40	50.91	51.85	74.00	-22.15	peak
5 7236.000	8.77	36.09	41.48	47.81	51.19	74.00	-22.81	peak
6 9648.000	10.79	37.69	37.69	41.91	52.70	74.00	-21.30	peak

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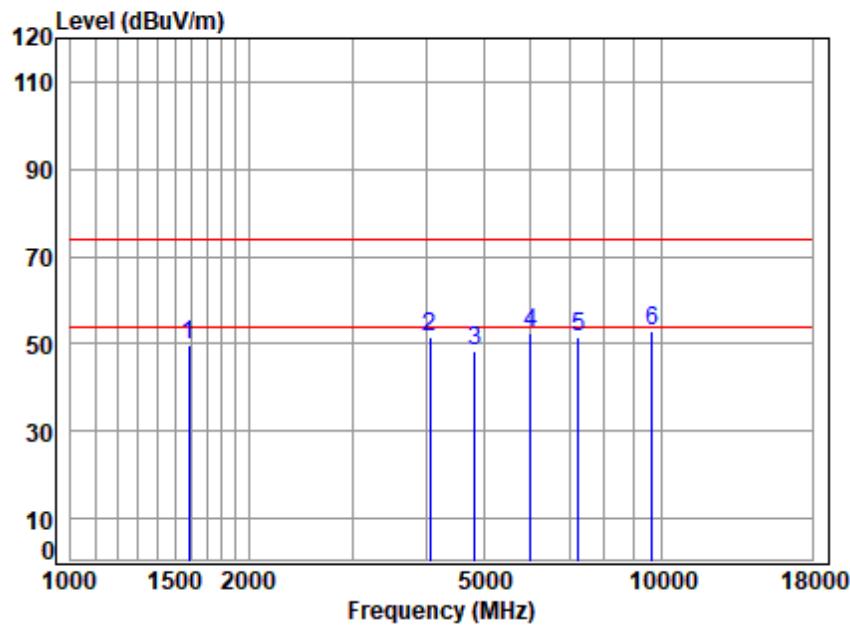
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 TX SE
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
1 1583.392	3.33	26.18	40.00	60.40	49.91	74.00	-24.09	peak
2 4050.904	6.33	32.80	41.45	54.01	51.69	74.00	-22.31	peak
3 4824.000	7.12	34.00	42.16	49.25	48.21	74.00	-25.79	peak
4 6001.626	8.26	35.10	42.40	51.46	52.42	74.00	-21.58	peak
5 7236.000	8.77	36.09	41.48	48.12	51.50	74.00	-22.50	peak
6 9648.000	10.79	37.69	37.69	41.97	52.76	74.00	-21.24	peak

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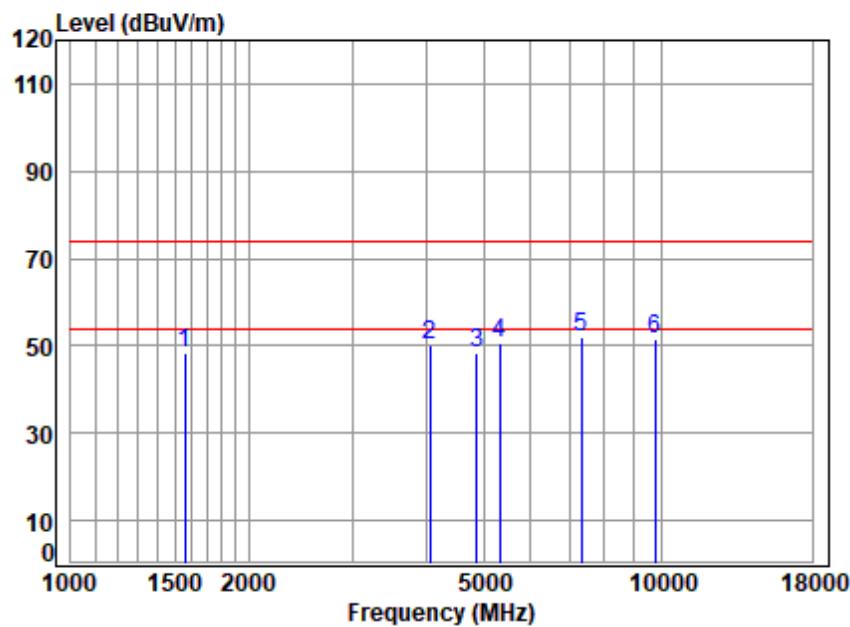
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2437 TX SE
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
	MHz					dBuV/m	dBuV/m	dB
1	1560.673	3.31	26.08	39.99	58.78	48.18	74.00	-25.82 peak
2	4050.904	6.33	32.80	41.45	52.61	50.29	74.00	-23.71 peak
3	4874.000	7.17	34.05	42.20	49.45	48.47	74.00	-25.53 peak
4	5315.542	7.87	34.46	42.33	50.87	50.87	74.00	-23.13 peak
5	7311.000	8.84	36.15	41.41	48.60	52.18	74.00	-21.82 peak
6	9748.000	10.76	37.75	37.52	40.60	51.59	74.00	-22.41 peak

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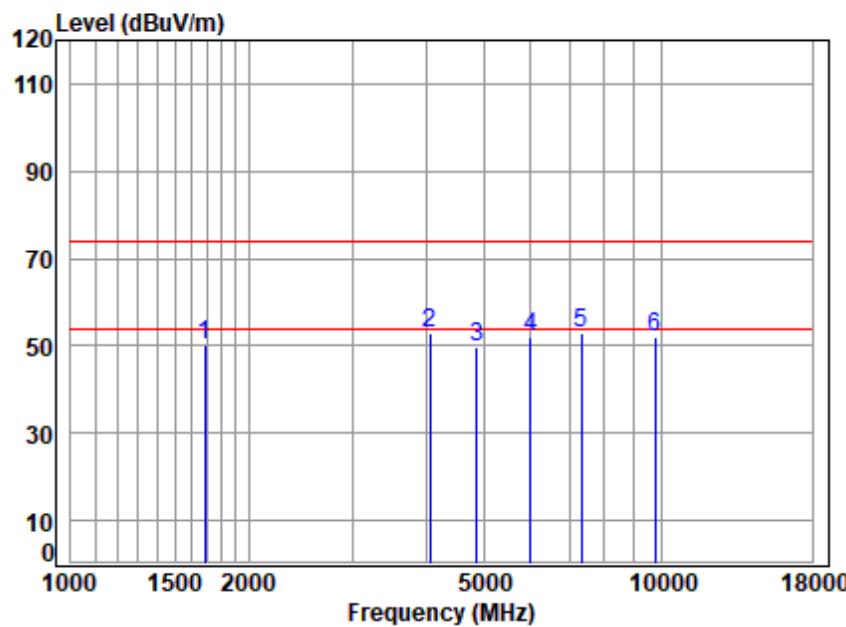
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2437 TX SE
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	1687.347	3.42	26.62	40.05	60.24	50.23	74.00	-23.77 peak
2	4050.904	6.33	32.80	41.45	55.05	52.73	74.00	-21.27 peak
3	4874.000	7.17	34.05	42.20	50.69	49.71	74.00	-24.29 peak
4	6001.626	8.26	35.10	42.40	51.11	52.07	74.00	-21.93 peak
5	7311.000	8.84	36.15	41.41	49.45	53.03	74.00	-20.97 peak
6	9748.000	10.76	37.75	37.52	40.98	51.97	74.00	-22.03 peak

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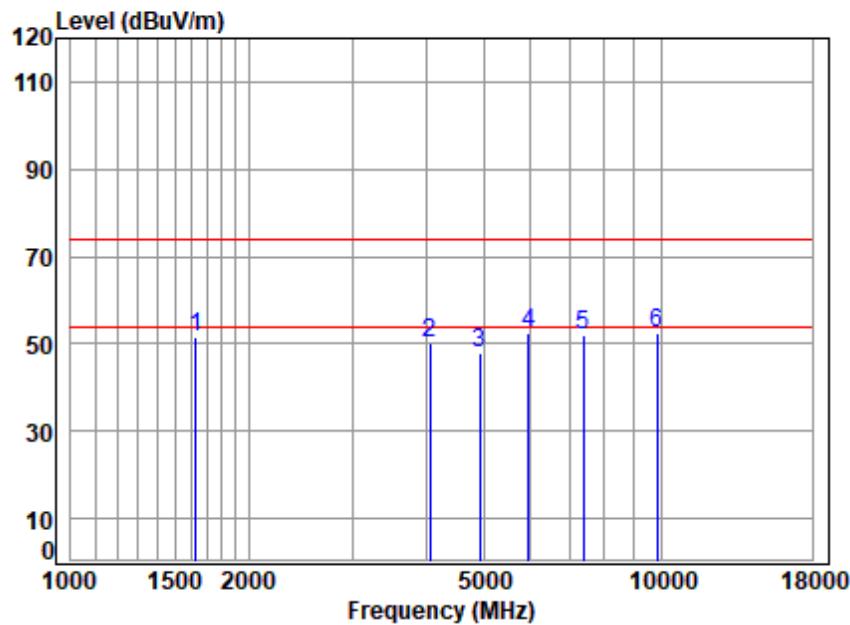
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 TX SE
Note : 2.4G WIFI 11G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1629.825	3.37	26.38	40.02	62.03	51.76	74.00	-22.24 peak
2	4050.904	6.33	32.80	41.45	52.34	50.02	74.00	-23.98 peak
3	4924.000	7.22	34.11	42.24	48.64	47.73	74.00	-26.27 peak
4	5967.033	8.25	35.07	42.40	51.65	52.57	74.00	-21.43 peak
5	7386.000	8.91	36.21	41.34	48.41	52.19	74.00	-21.81 peak
6	9848.000	10.73	37.81	37.35	41.28	52.47	74.00	-21.53 peak

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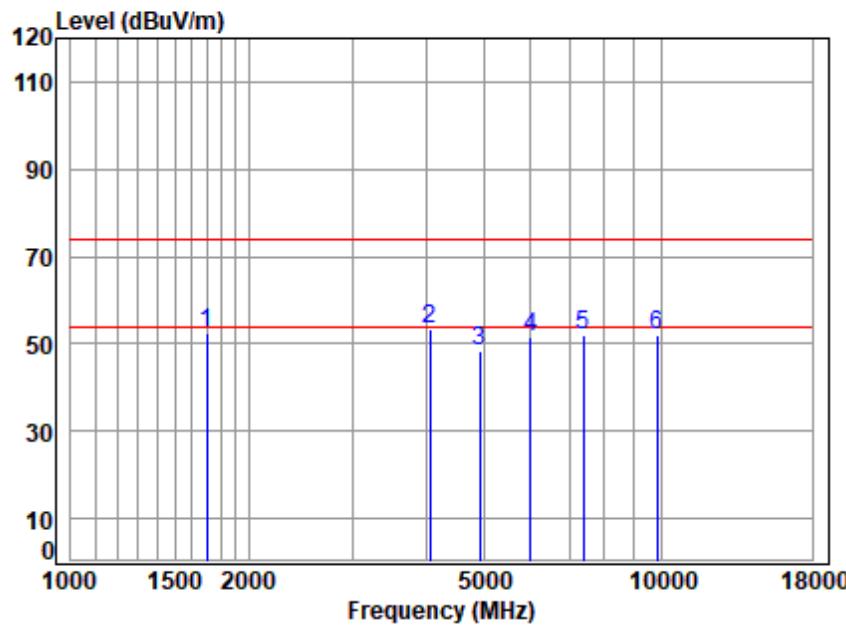
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 TX SE
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
	MHz					dBuV/m	dBuV/m	dB
1	1702.042	3.43	26.68	40.06	62.43	52.48	74.00	-21.52 peak
2	4050.904	6.33	32.80	41.45	55.68	53.36	74.00	-20.64 peak
3	4924.000	7.22	34.11	42.24	49.12	48.21	74.00	-25.79 peak
4	6001.626	8.26	35.10	42.40	50.79	51.75	74.00	-22.25 peak
5	7386.000	8.91	36.21	41.34	48.41	52.19	74.00	-21.81 peak
6	9848.000	10.73	37.81	37.35	40.95	52.14	74.00	-21.86 peak

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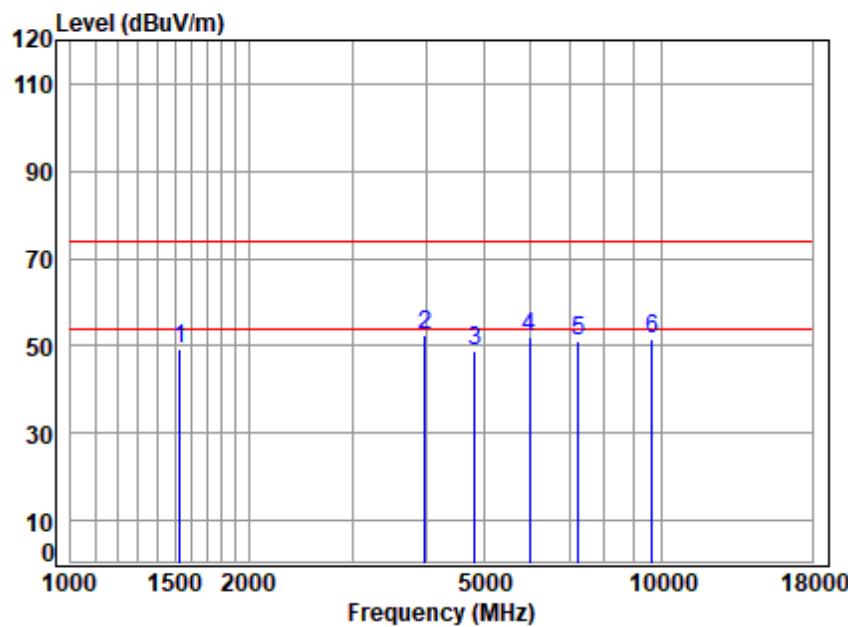
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 TX SE
 Note : 2.4G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1529.414	3.29	25.94	39.97	60.23	49.49	74.00	-24.51 peak
2	3981.257	6.25	32.66	41.39	54.97	52.49	74.00	-21.51 peak
3	4824.000	7.12	34.00	42.16	50.02	48.98	74.00	-25.02 peak
4	5984.305	8.26	35.08	42.40	51.05	51.99	74.00	-22.01 peak
5	7236.000	8.77	36.09	41.48	47.95	51.33	74.00	-22.67 peak
6	9648.000	10.79	37.69	37.69	40.98	51.77	74.00	-22.23 peak

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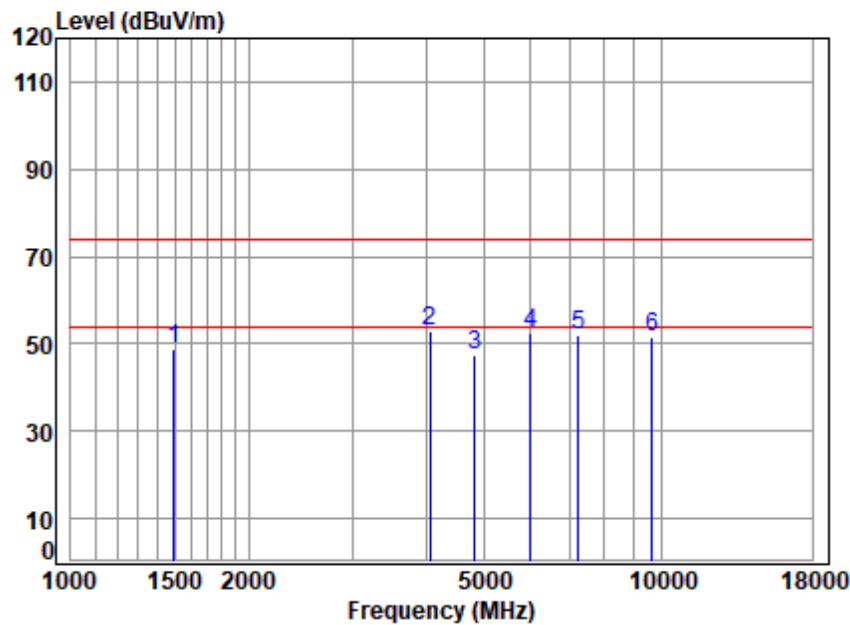
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 TX SE
Note : 2.4G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1494.455	3.25	25.78	39.95	59.57	48.65	74.00	-25.35 peak
2	4050.904	6.33	32.80	41.45	55.05	52.73	74.00	-21.27 peak
3	4824.000	7.12	34.00	42.16	48.67	47.63	74.00	-26.37 peak
4	6001.626	8.26	35.10	42.40	51.30	52.26	74.00	-21.74 peak
5	7236.000	8.77	36.09	41.48	48.70	52.08	74.00	-21.92 peak
6	9648.000	10.79	37.69	37.69	40.58	51.37	74.00	-22.63 peak

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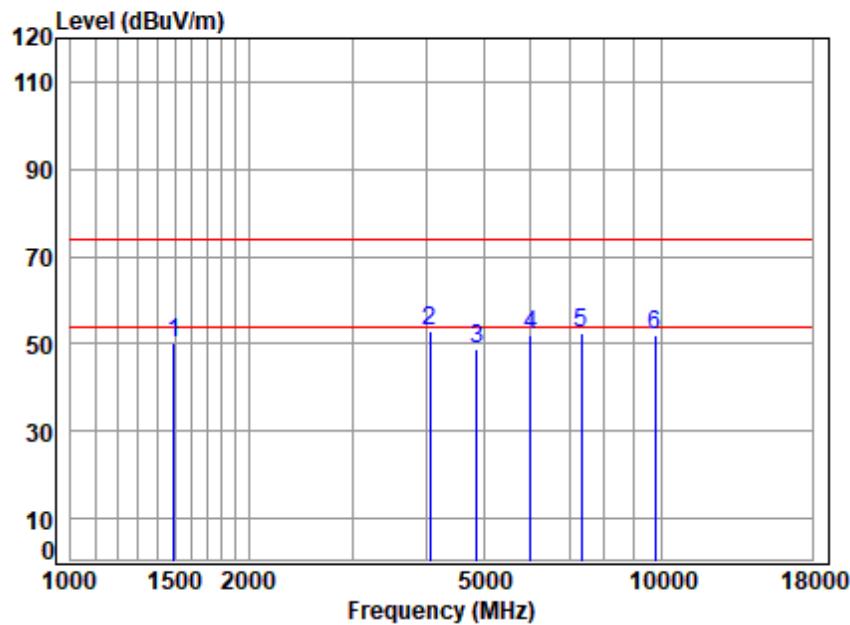
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2437 TX SE
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1494.455	3.25	25.78	39.95	61.07	50.15	74.00	-23.85	peak
2	4050.904	6.33	32.80	41.45	55.07	52.75	74.00	-21.25	peak
3	4874.000	7.17	34.05	42.20	49.79	48.81	74.00	-25.19	peak
4	6001.626	8.26	35.10	42.40	51.26	52.22	74.00	-21.78	peak
5	7311.000	8.84	36.15	41.41	49.02	52.60	74.00	-21.40	peak
6	9748.000	10.76	37.75	37.52	40.99	51.98	74.00	-22.02	peak

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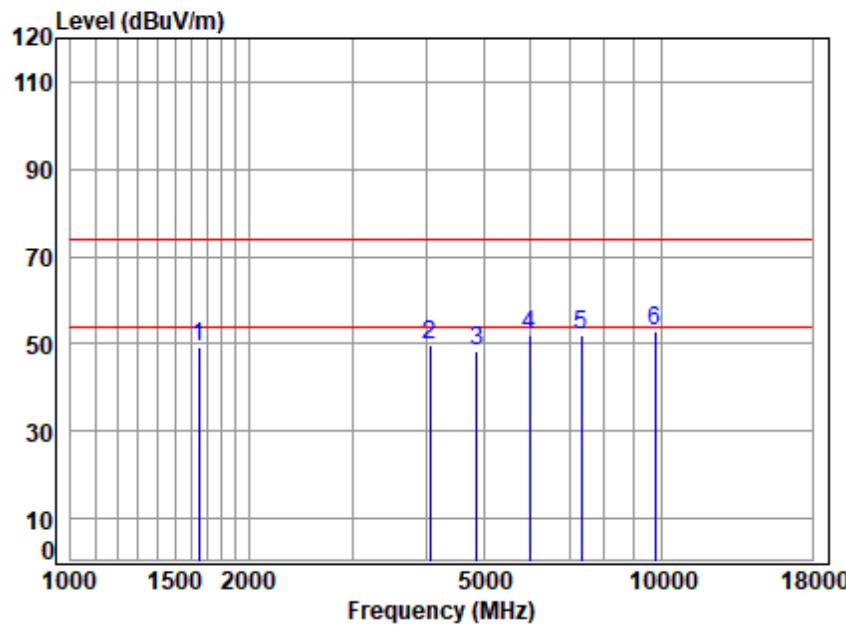
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2437 TX SE
 Note : 2.4G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1648.778	3.39	26.46	40.03	59.40	49.22	74.00	-24.78 peak
2	4050.904	6.33	32.80	41.45	52.21	49.89	74.00	-24.11 peak
3	4874.000	7.17	34.05	42.20	49.30	48.32	74.00	-25.68 peak
4	5984.305	8.26	35.08	42.40	51.21	52.15	74.00	-21.85 peak
5	7311.000	8.84	36.15	41.41	48.33	51.91	74.00	-22.09 peak
6	9748.000	10.76	37.75	37.52	41.75	52.74	74.00	-21.26 peak

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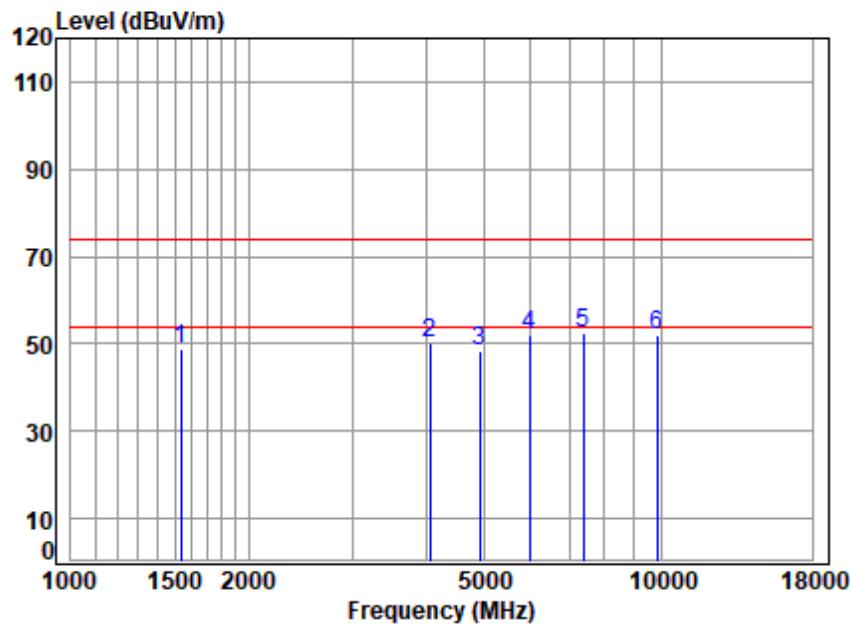
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



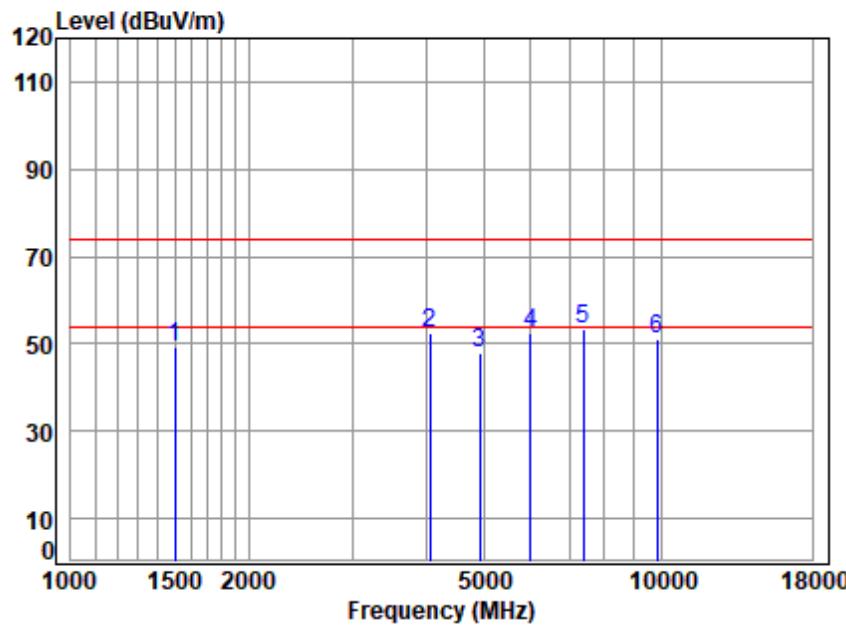
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 TX SE
Note : 2.4G WIFI 11N20

Freq	Cable Loss		Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	3.29	25.98	39.97	59.42	48.72	74.00	-25.28	peak
2	4050.904	6.33	32.80	41.45	52.34	50.02	74.00	-23.98	peak
3	4924.000	7.22	34.11	42.24	49.13	48.22	74.00	-25.78	peak
4	5984.305	8.26	35.08	42.40	51.06	52.00	74.00	-22.00	peak
5	7386.000	8.91	36.21	41.34	48.82	52.60	74.00	-21.40	peak
6	9848.000	10.73	37.81	37.35	40.86	52.05	74.00	-21.95	peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 TX SE
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1498.781	3.26	25.80	39.95	60.01	49.12	74.00	-24.88	peak
2	4050.904	6.33	32.80	41.45	54.76	52.44	74.00	-21.56	peak
3	4924.000	7.22	34.11	42.24	48.97	48.06	74.00	-25.94	peak
4	6001.626	8.26	35.10	42.40	51.44	52.40	74.00	-21.60	peak
5	7386.000	8.91	36.21	41.34	49.69	53.47	74.00	-20.53	peak
6	9848.000	10.73	37.81	37.35	40.13	51.32	74.00	-22.68	peak

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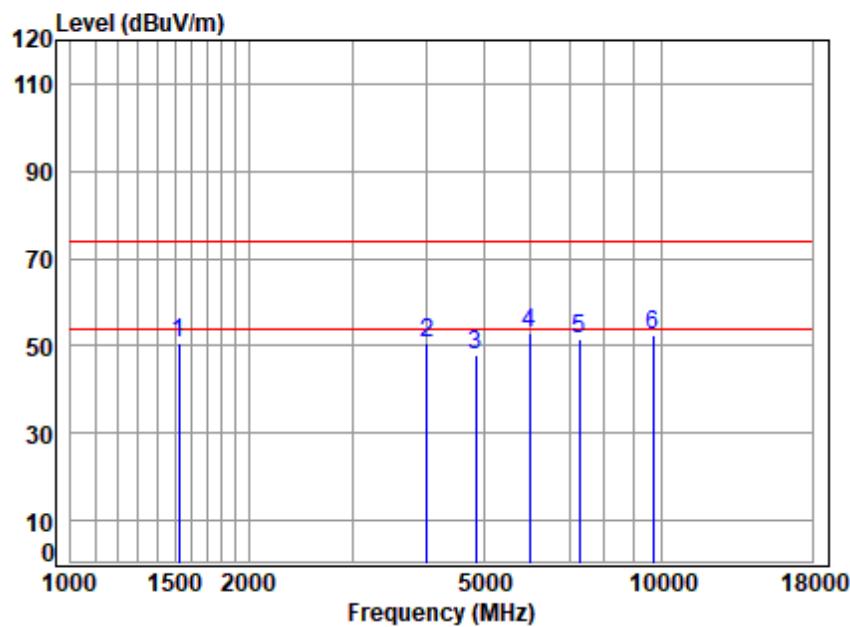
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



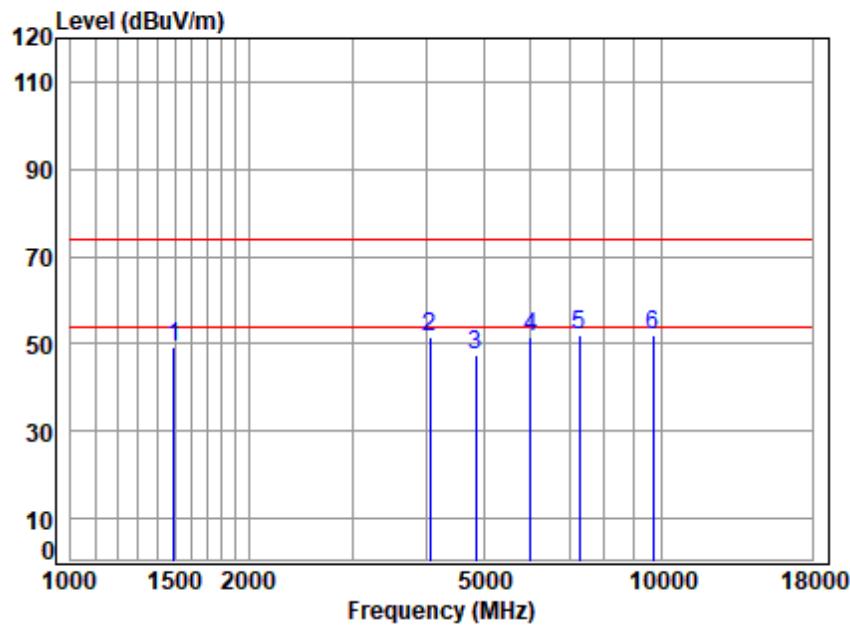
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2422 TX SE
 Note : 2.4G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1525.000	3.28	25.91	39.97	61.33	50.55	74.00	-23.45 peak
2	4004.339	6.28	32.71	41.40	52.91	50.50	74.00	-23.50 peak
3	4844.000	7.14	34.02	42.17	49.14	48.13	74.00	-25.87 peak
4	5984.305	8.26	35.08	42.40	51.90	52.84	74.00	-21.16 peak
5	7266.000	8.79	36.12	41.45	48.25	51.71	74.00	-22.29 peak
6	9688.000	10.78	37.71	37.63	41.41	52.27	74.00	-21.73 peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2422 TX SE
Note : 2.4G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1494.455	3.25	25.78	39.95	60.35	49.43	74.00	-24.57 peak
2	4050.904	6.33	32.80	41.45	53.98	51.66	74.00	-22.34 peak
3	4844.000	7.14	34.02	42.17	48.68	47.67	74.00	-26.33 peak
4	6001.626	8.26	35.10	42.40	50.49	51.45	74.00	-22.55 peak
5	7266.000	8.79	36.12	41.45	48.77	52.23	74.00	-21.77 peak
6	9688.000	10.78	37.71	37.63	41.07	51.93	74.00	-22.07 peak

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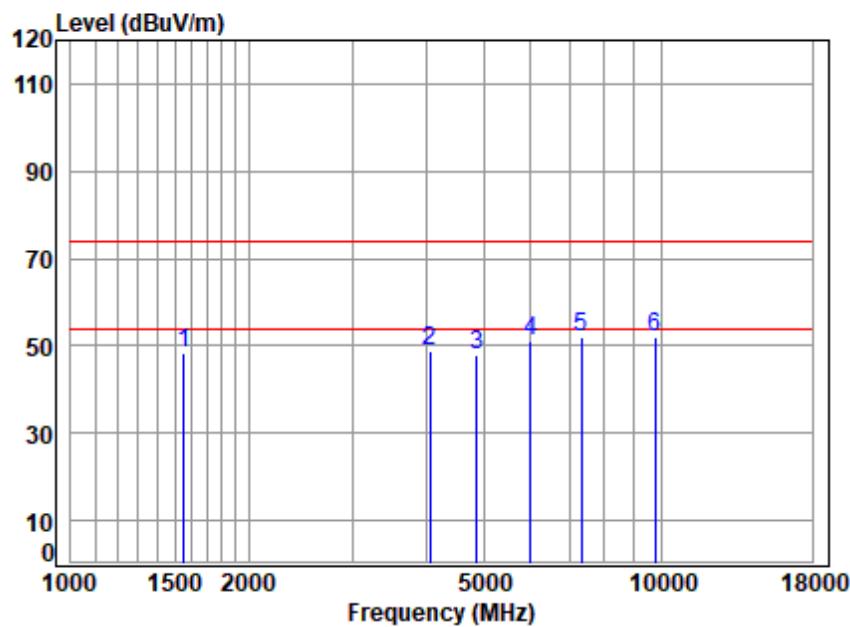
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2437 TX SE
Note : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1551.677	3.31	26.04	39.98	59.04	48.41	74.00	-25.59 peak
2 4050.904	6.33	32.80	41.45	51.28	48.96	74.00	-25.04 peak
3 4874.000	7.17	34.05	42.20	48.75	47.77	74.00	-26.23 peak
4 6001.626	8.26	35.10	42.40	50.17	51.13	74.00	-22.87 peak
5 7311.000	8.84	36.15	41.41	48.43	52.01	74.00	-21.99 peak
6 9748.000	10.76	37.75	37.52	40.82	51.81	74.00	-22.19 peak

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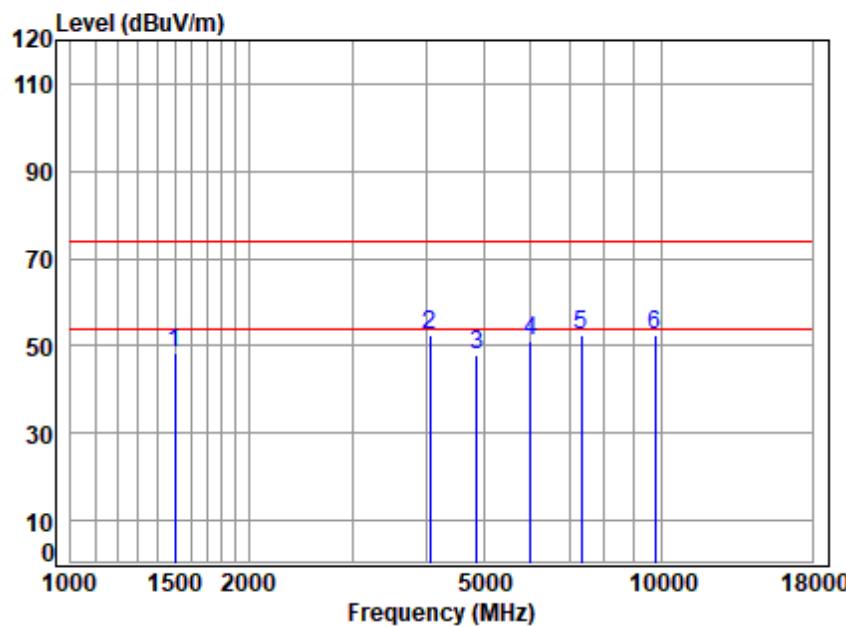
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2437 TX SE
Note : 2.4G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1498.781	3.26	25.80	39.95	59.03	48.14	74.00	-25.86 peak
2	4050.904	6.33	32.80	41.45	54.82	52.50	74.00	-21.50 peak
3	4874.000	7.17	34.05	42.20	49.09	48.11	74.00	-25.89 peak
4	6001.626	8.26	35.10	42.40	50.32	51.28	74.00	-22.72 peak
5	7311.000	8.84	36.15	41.41	48.68	52.26	74.00	-21.74 peak
6	9748.000	10.76	37.75	37.52	41.55	52.54	74.00	-21.46 peak

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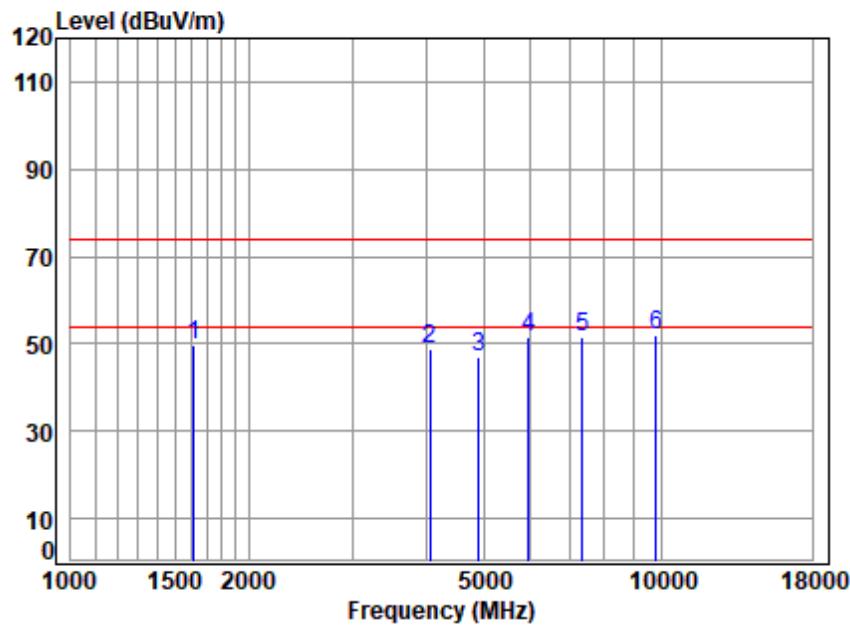
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2452 TX SE
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1615.754	3.36	26.32	40.02	60.22	49.88	74.00	-24.12	peak
2	4050.904	6.33	32.80	41.45	51.00	48.68	74.00	-25.32	peak
3	4904.000	7.20	34.09	42.22	48.08	47.15	74.00	-26.85	peak
4	5967.033	8.25	35.07	42.40	50.69	51.61	74.00	-22.39	peak
5	7356.000	8.88	36.19	41.37	48.03	51.73	74.00	-22.27	peak
6	9808.000	10.75	37.79	37.42	40.91	52.03	74.00	-21.97	peak

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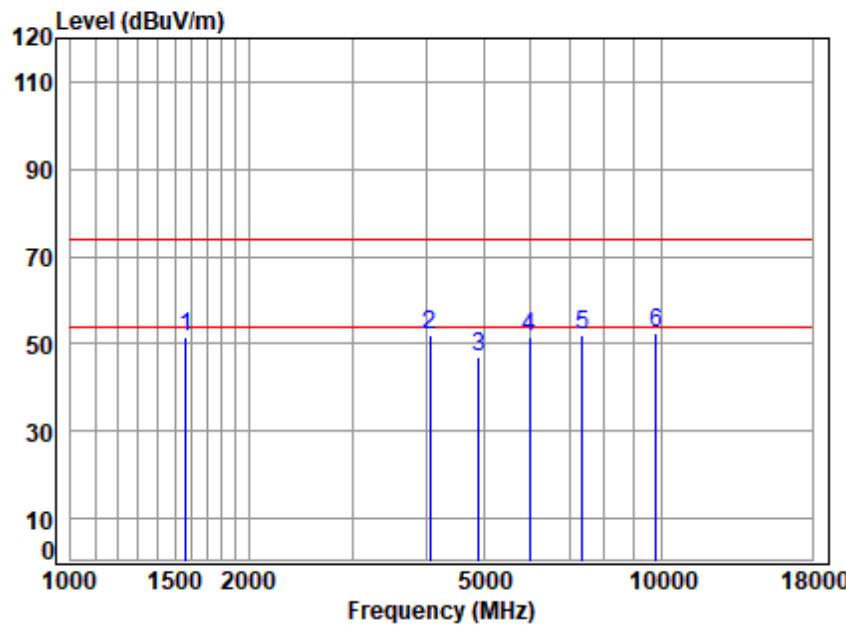
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2452 TX SE
 Note : 2.4G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1565.191	3.32	26.10	39.99	62.05	51.48	74.00	-22.52 peak
2	4050.904	6.33	32.80	41.45	54.29	51.97	74.00	-22.03 peak
3	4904.000	7.20	34.09	42.22	48.11	47.18	74.00	-26.82 peak
4	5984.305	8.26	35.08	42.40	50.47	51.41	74.00	-22.59 peak
5	7356.000	8.88	36.19	41.37	48.29	51.99	74.00	-22.01 peak
6	9808.000	10.75	37.79	37.42	41.33	52.45	74.00	-21.55 peak

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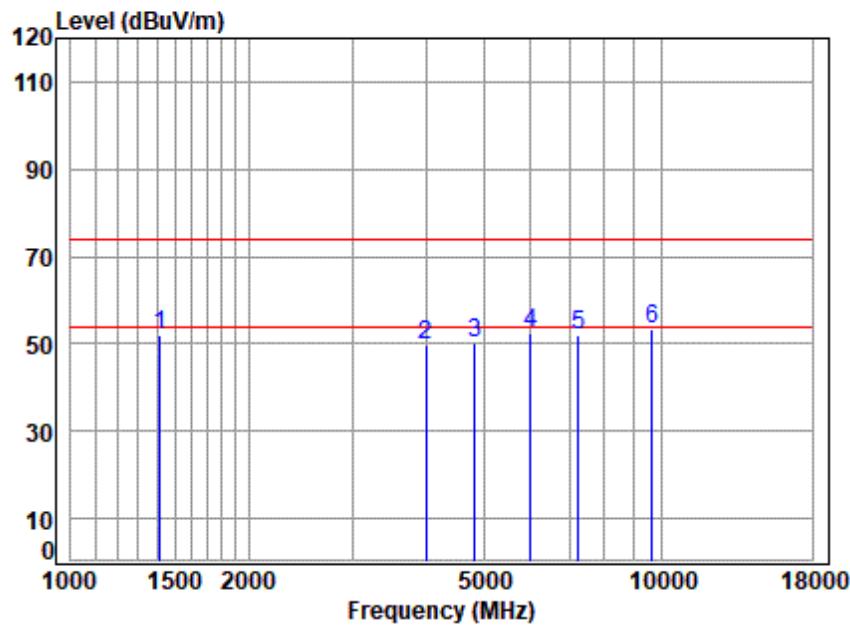


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Test data for Dock WLAN(Station mode, SANAV Antenna)

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

Freq	MHz	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1418.692	3.14	25.50	39.90	63.07	51.81	74.00	-22.19 peak
2	3992.781	6.27	32.69	41.40	52.03	49.59	74.00	-24.41 peak
3	4824.000	7.12	34.00	42.16	51.29	50.25	74.00	-23.75 peak
4	6001.626	8.26	35.10	42.40	51.69	52.65	74.00	-21.35 peak
5	7236.000	8.77	36.09	41.48	48.66	52.04	74.00	-21.96 peak
6	9648.000	10.79	37.69	37.69	42.75	53.54	74.00	-20.46 peak

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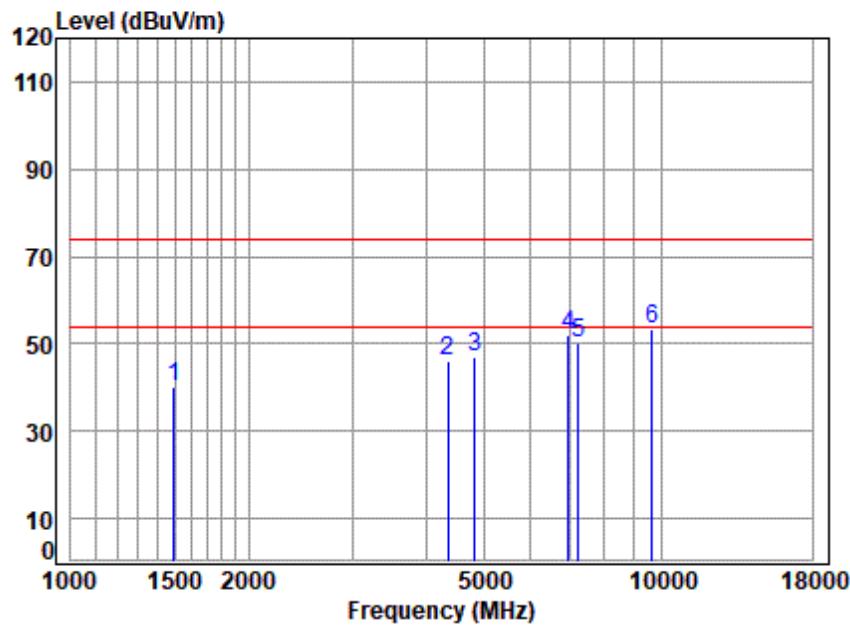
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1494.455	3.25	25.78	39.95	51.03	40.11	74.00	-33.89	peak
2	4354.454	6.63	33.35	41.74	48.05	46.29	74.00	-27.71	peak
3	4824.000	7.12	34.00	42.16	47.82	46.78	74.00	-27.22	peak
4	6954.852	8.52	35.87	41.73	49.14	51.80	74.00	-22.20	peak
5	7236.000	8.77	36.09	41.48	46.99	50.37	74.00	-23.63	peak
6	9648.000	10.79	37.69	37.69	42.39	53.18	74.00	-20.82	peak

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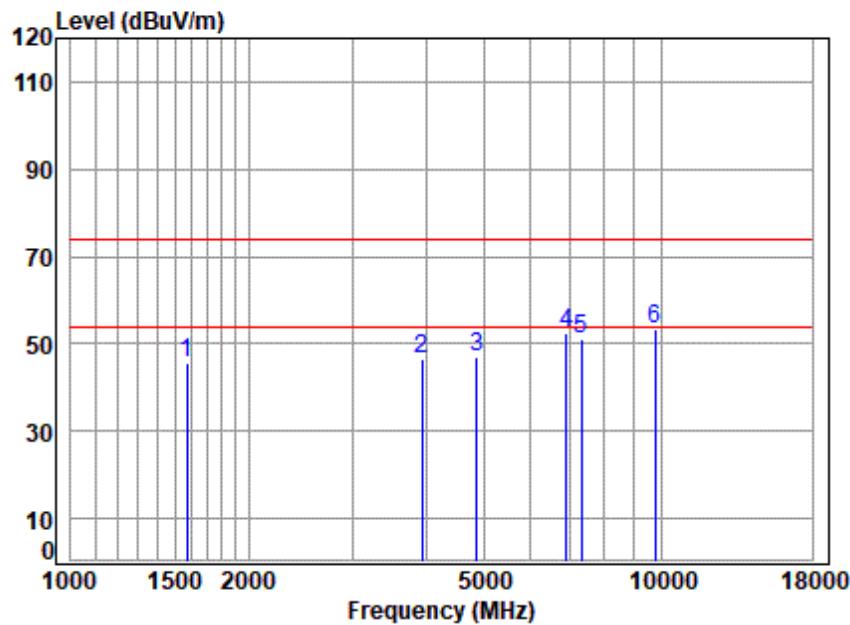
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1574.265	3.33	26.14	39.99	55.94	45.42	74.00	-28.58	peak
2	3935.493	6.19	32.58	41.36	49.21	46.62	74.00	-27.38	peak
3	4874.000	7.17	34.05	42.20	48.00	47.02	74.00	-26.98	peak
4	6894.806	8.49	35.84	41.77	49.79	52.35	74.00	-21.65	peak
5	7311.000	8.84	36.15	41.41	47.44	51.02	74.00	-22.98	peak
6	9748.000	10.76	37.75	37.52	42.17	53.16	74.00	-20.84	peak

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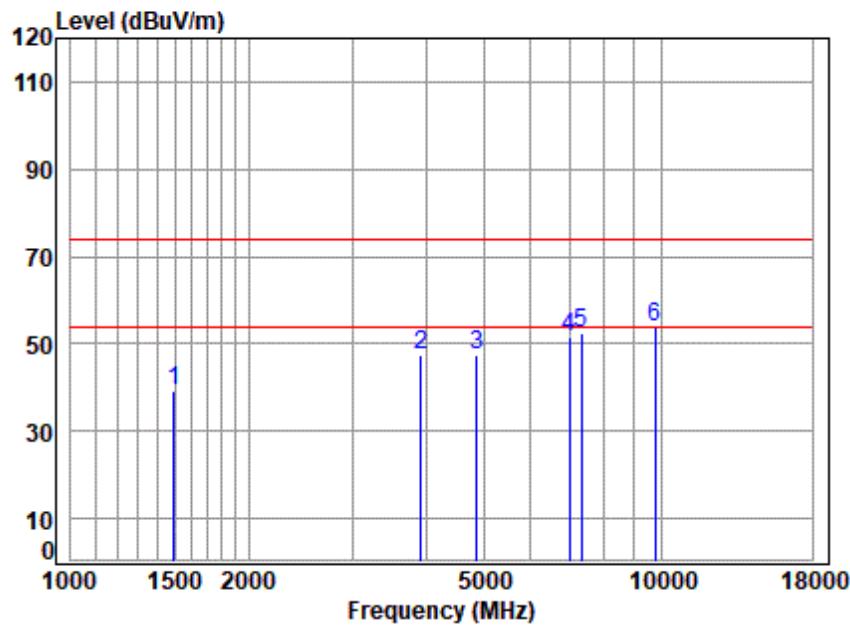
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1494.455	3.25	25.78	39.95	50.25	39.33	74.00	-34.67	peak
2	3924.135	6.17	32.56	41.35	50.06	47.44	74.00	-26.56	peak
3	4874.000	7.17	34.05	42.20	48.58	47.60	74.00	-26.40	peak
4	6974.982	8.53	35.89	41.72	48.84	51.54	74.00	-22.46	peak
5	7311.000	8.84	36.15	41.41	48.97	52.55	74.00	-21.45	peak
6	9748.000	10.76	37.75	37.52	42.70	53.69	74.00	-20.31	peak

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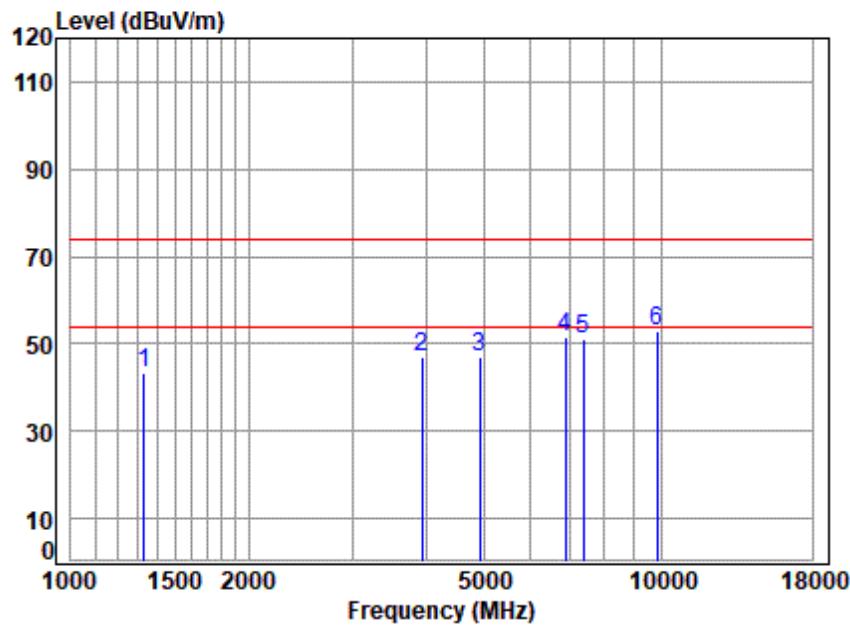
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1331.288	3.00	25.15	39.85	55.18	43.48	74.00	-30.52	peak
2	3935.493	6.19	32.58	41.36	49.71	47.12	74.00	-26.88	peak
3	4924.000	7.22	34.11	42.24	47.79	46.88	74.00	-27.12	peak
4	6874.906	8.48	35.83	41.78	48.99	51.52	74.00	-22.48	peak
5	7386.000	8.91	36.21	41.34	47.39	51.17	74.00	-22.83	peak
6	9848.000	10.73	37.81	37.35	41.65	52.84	74.00	-21.16	peak

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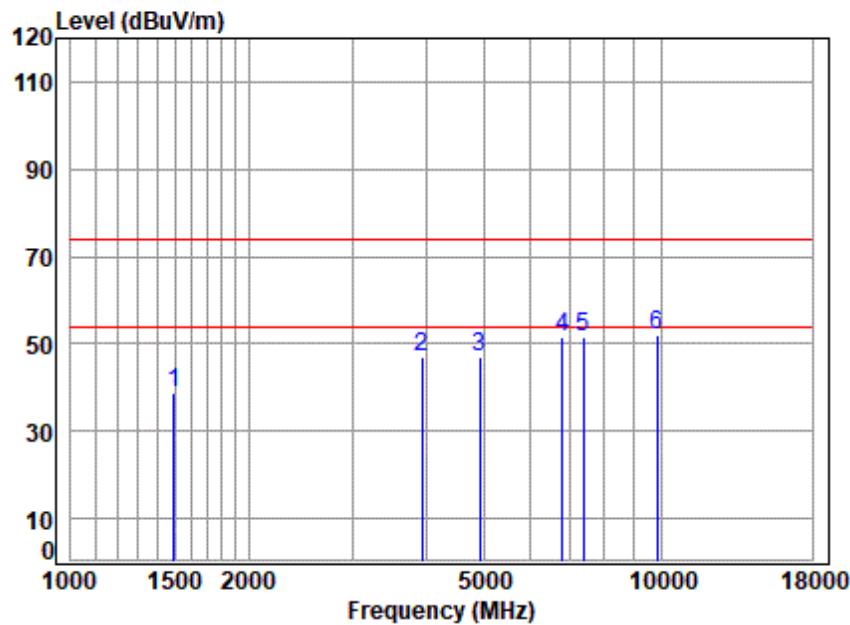
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

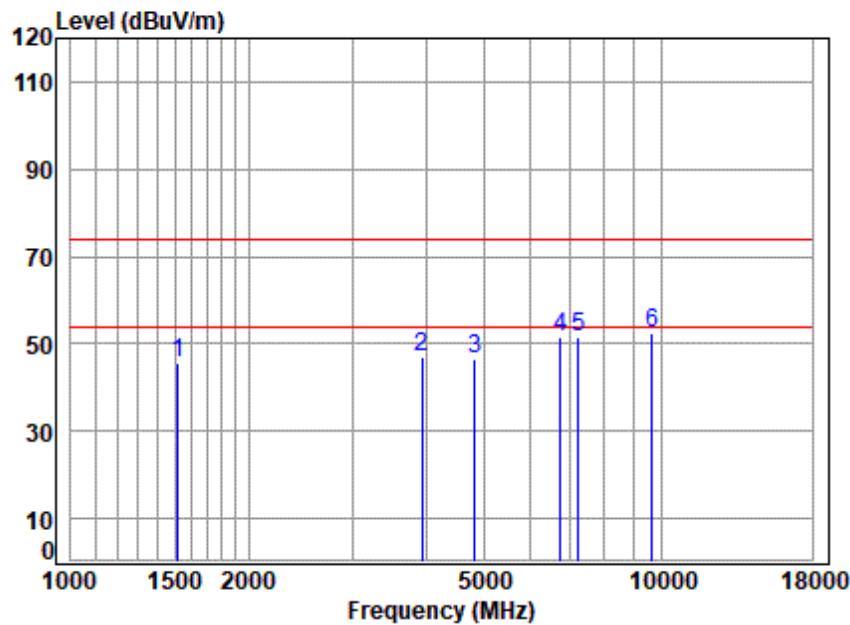
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1	1494.455	3.25	25.78	39.95	49.76	38.84	74.00	-35.16	peak
2	3935.493	6.19	32.58	41.36	49.77	47.18	74.00	-26.82	peak
3	4924.000	7.22	34.11	42.24	47.74	46.83	74.00	-27.17	peak
4	6795.879	8.44	35.78	41.83	49.27	51.66	74.00	-22.34	peak
5	7386.000	8.91	36.21	41.34	47.59	51.37	74.00	-22.63	peak
6	9848.000	10.73	37.81	37.35	40.85	52.04	74.00	-21.96	peak

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 1520.598	3.28	25.89	39.96	56.52	45.73	74.00	-28.27	peak	
2 3935.493	6.19	32.58	41.36	49.62	47.03	74.00	-26.97	peak	
3 4824.000	7.12	34.00	42.16	47.68	46.64	74.00	-27.36	peak	
4 6756.708	8.42	35.76	41.86	49.23	51.55	74.00	-22.45	peak	
5 7236.000	8.77	36.09	41.48	47.95	51.33	74.00	-22.67	peak	
6 9648.000	10.79	37.69	37.69	41.61	52.40	74.00	-21.60	peak	

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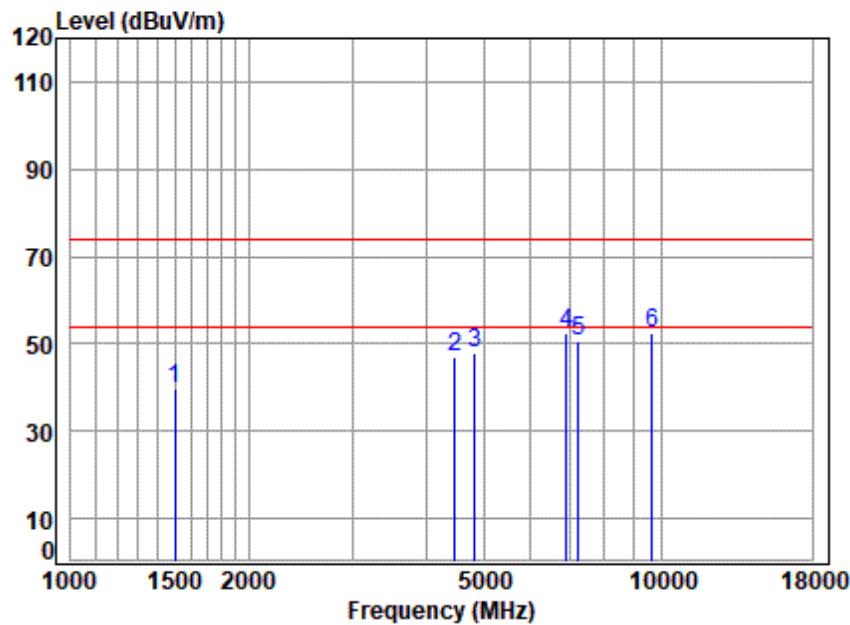
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	dB
1	1498.781	3.26	25.80	39.95	50.55	39.66	74.00	-34.34	peak
2	4469.214	6.73	33.55	41.85	48.49	46.92	74.00	-27.08	peak
3	4824.000	7.12	34.00	42.16	48.75	47.71	74.00	-26.29	peak
4	6914.763	8.50	35.85	41.76	49.68	52.27	74.00	-21.73	peak
5	7236.000	8.77	36.09	41.48	47.48	50.86	74.00	-23.14	peak
6	9648.000	10.79	37.69	37.69	41.63	52.42	74.00	-21.58	peak



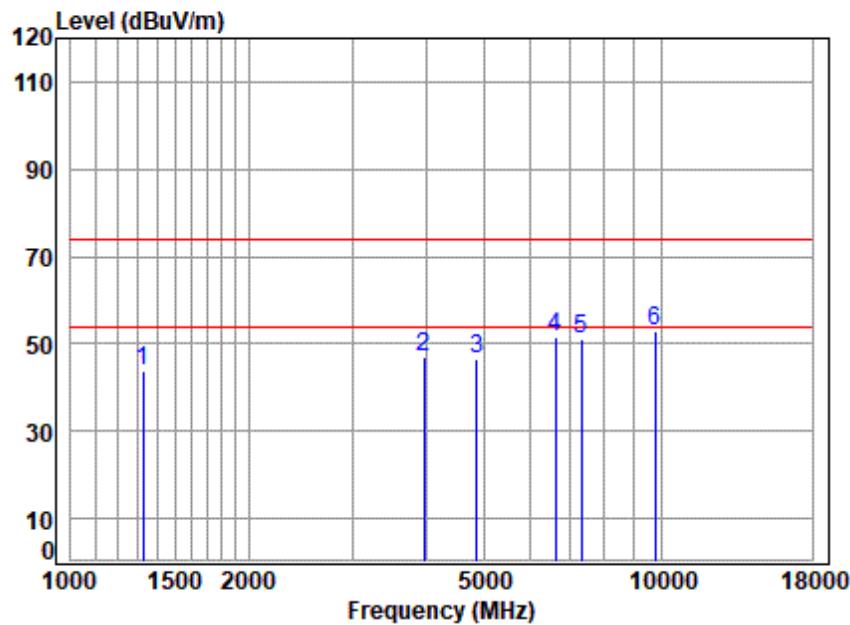
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
									dB
1	1327.446	2.99	25.14	39.85	55.47	43.75	74.00	-30.25	peak
2	3958.309	6.22	32.62	41.37	49.71	47.18	74.00	-26.82	peak
3	4874.000	7.17	34.05	42.20	47.59	46.61	74.00	-27.39	peak
4	6621.375	8.34	35.67	41.95	49.35	51.41	74.00	-22.59	peak
5	7311.000	8.84	36.15	41.41	47.54	51.12	74.00	-22.88	peak
6	9748.000	10.76	37.75	37.52	41.76	52.75	74.00	-21.25	peak

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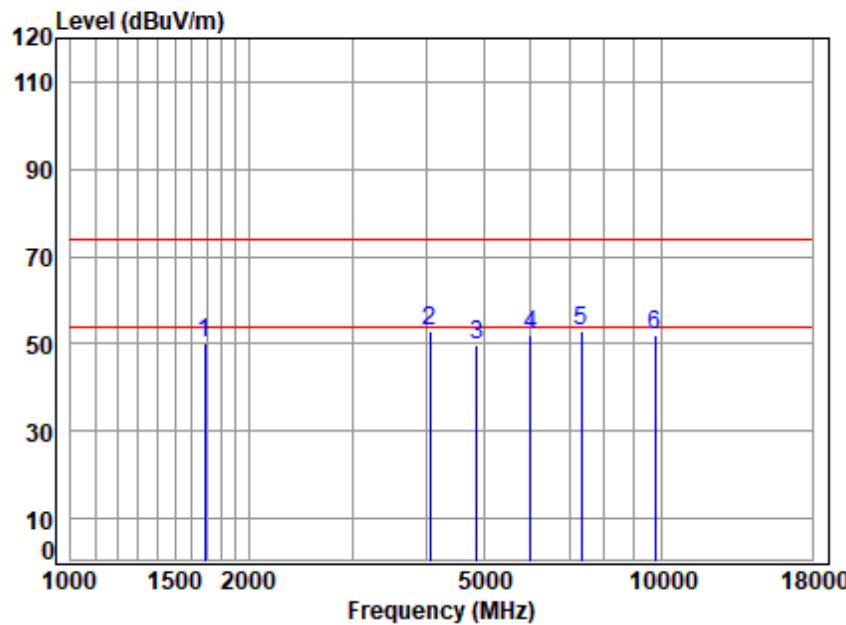
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2437 TX SE
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				Level	Level			
1	1687.347	3.42	26.62	40.05	60.24	50.23	74.00	-23.77 peak
2	4050.904	6.33	32.80	41.45	55.05	52.73	74.00	-21.27 peak
3	4874.000	7.17	34.05	42.20	50.69	49.71	74.00	-24.29 peak
4	6001.626	8.26	35.10	42.40	51.11	52.07	74.00	-21.93 peak
5	7311.000	8.84	36.15	41.41	49.45	53.03	74.00	-20.97 peak
6	9748.000	10.76	37.75	37.52	40.98	51.97	74.00	-22.03 peak

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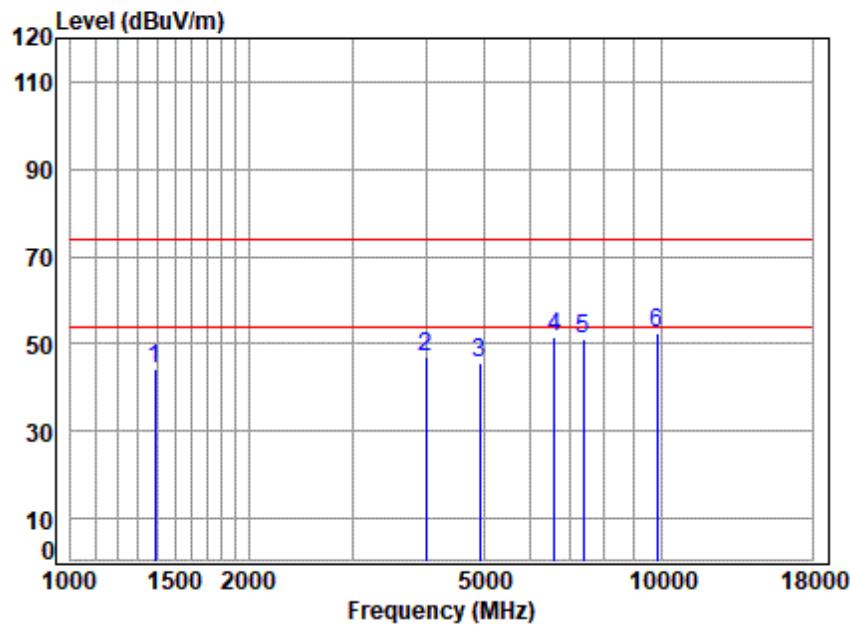
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 1390.276	3.09	25.39	39.89	55.79	44.38	74.00	-29.62	peak	
2 3992.781	6.27	32.69	41.40	49.64	47.20	74.00	-26.80	peak	
3 4924.000	7.22	34.11	42.24	46.72	45.81	74.00	-28.19	peak	
4 6583.209	8.32	35.65	41.98	49.49	51.48	74.00	-22.52	peak	
5 7386.000	8.91	36.21	41.34	47.33	51.11	74.00	-22.89	peak	
6 9848.000	10.73	37.81	37.35	41.43	52.62	74.00	-21.38	peak	

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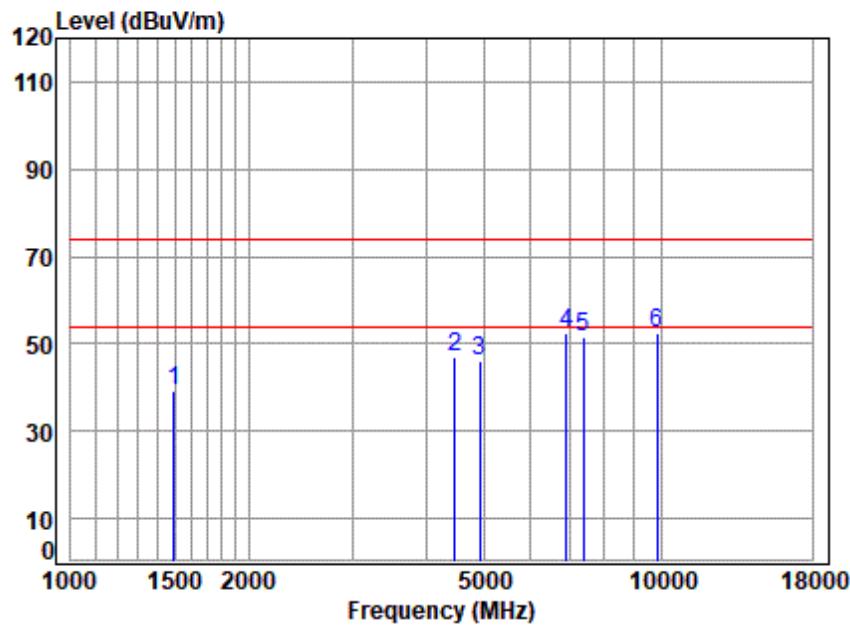
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1494.455	3.25	25.78	39.95	50.10	39.18	74.00	-34.82	peak
2	4469.214	6.73	33.55	41.85	48.69	47.12	74.00	-26.88	peak
3	4924.000	7.22	34.11	42.24	47.05	46.14	74.00	-27.86	peak
4	6914.763	8.50	35.85	41.76	49.68	52.27	74.00	-21.73	peak
5	7386.000	8.91	36.21	41.34	47.98	51.76	74.00	-22.24	peak
6	9848.000	10.73	37.81	37.35	41.30	52.49	74.00	-21.51	peak

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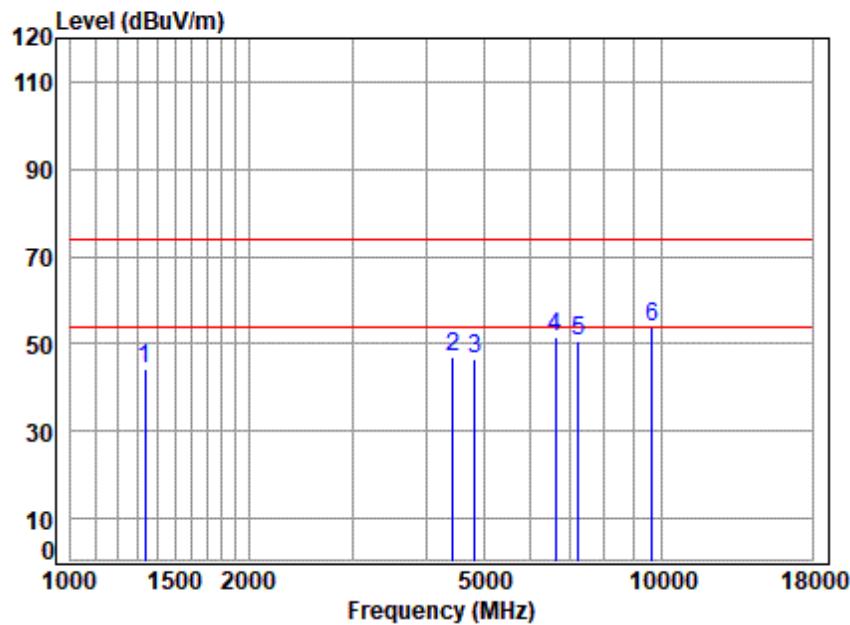
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N20

Freq	MHz	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	3.00	25.17	39.85	55.75	44.07	74.00	-29.93 peak
2	4430.628	6.70	33.48	41.81	48.81	47.18	74.00	-26.82 peak
3	4824.000	7.12	34.00	42.16	47.52	46.48	74.00	-27.52 peak
4	6621.375	8.34	35.67	41.95	49.64	51.70	74.00	-22.30 peak
5	7236.000	8.77	36.09	41.48	47.08	50.46	74.00	-23.54 peak
6	9648.000	10.79	37.69	37.69	43.01	53.80	74.00	-20.20 peak

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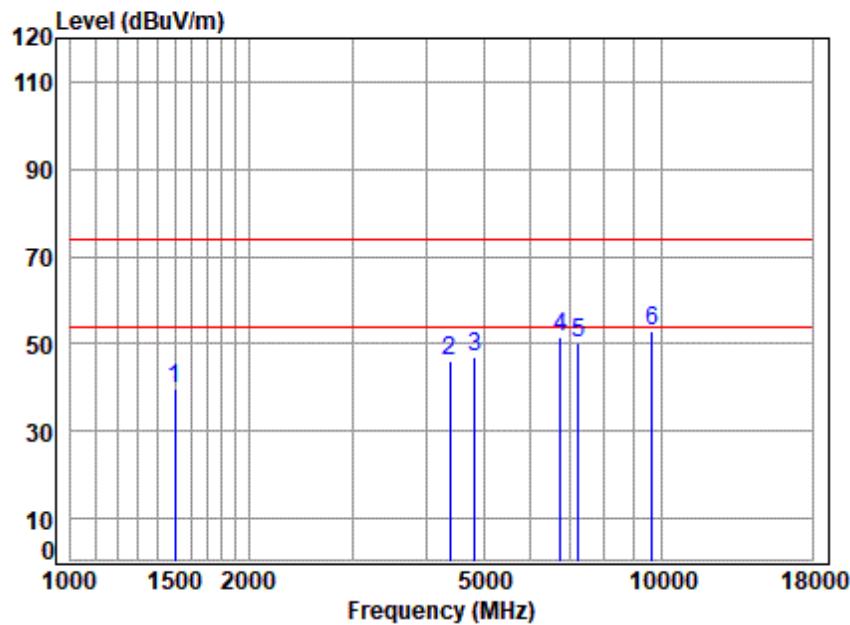
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 1498.781	3.26	25.80	39.95	50.49	39.60	74.00	-34.40	peak	
2 4392.376	6.66	33.42	41.78	47.95	46.25	74.00	-27.75	peak	
3 4824.000	7.12	34.00	42.16	47.97	46.93	74.00	-27.07	peak	
4 6737.207	8.41	35.75	41.87	49.11	51.40	74.00	-22.60	peak	
5 7236.000	8.77	36.09	41.48	46.71	50.09	74.00	-23.91	peak	
6 9648.000	10.79	37.69	37.69	42.25	53.04	74.00	-20.96	peak	

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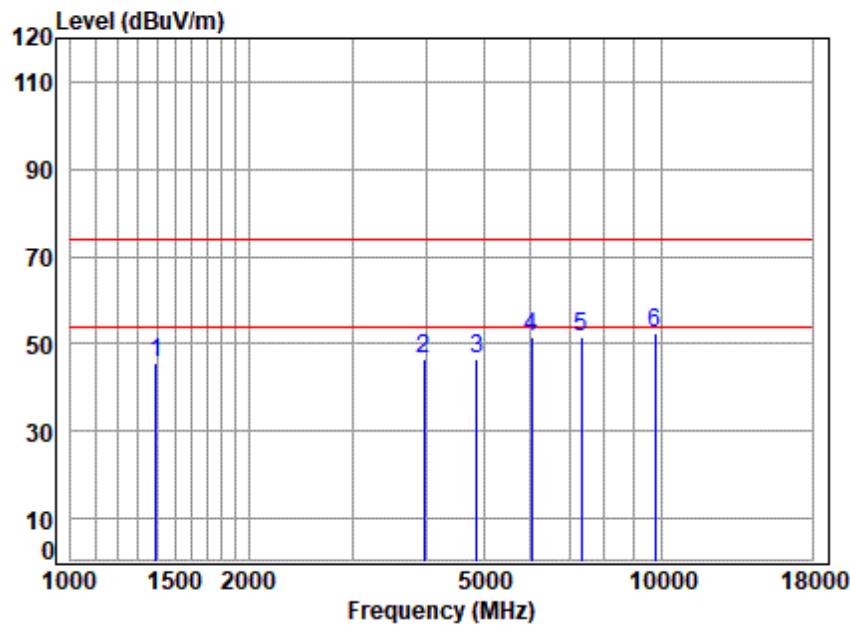
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2437 TX RSE
 Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 1394.300	3.10	25.40	39.89	56.85	45.46	74.00	-28.54	peak	
2 3958.309	6.22	32.62	41.37	49.30	46.77	74.00	-27.23	peak	
3 4874.000	7.17	34.05	42.20	47.57	46.59	74.00	-27.41	peak	
4 6018.999	8.26	35.12	42.39	50.71	51.70	74.00	-22.30	peak	
5 7311.000	8.84	36.15	41.41	48.20	51.78	74.00	-22.22	peak	
6 9748.000	10.76	37.75	37.52	41.55	52.54	74.00	-21.46	peak	

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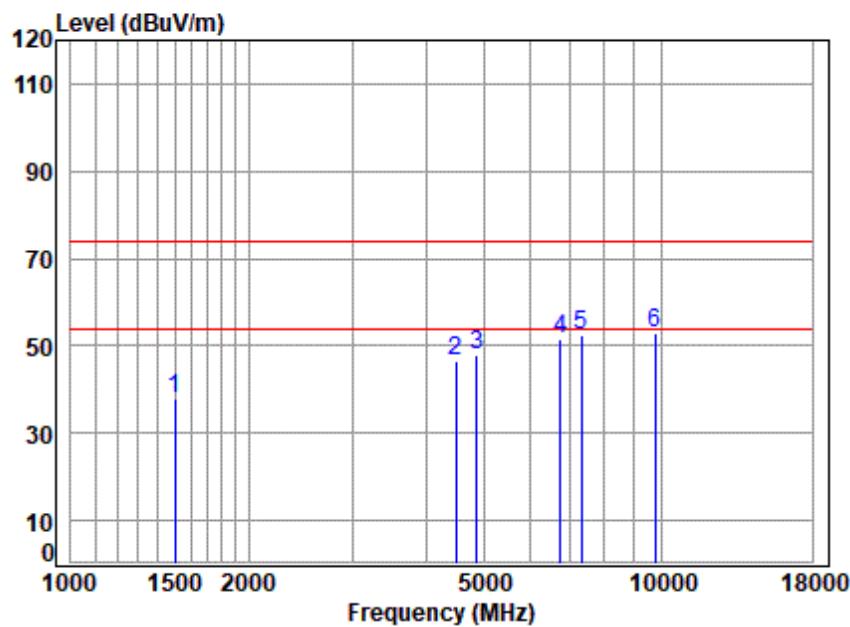
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N20

Freq	MHz	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	3.26	25.80	39.95	48.61	37.72	74.00	-36.28 peak
2	4482.150	6.74	33.57	41.86	48.24	46.69	74.00	-27.31 peak
3	4874.000	7.17	34.05	42.20	48.69	47.71	74.00	-26.29 peak
4	6737.207	8.41	35.75	41.87	49.38	51.67	74.00	-22.33 peak
5	7311.000	8.84	36.15	41.41	49.08	52.66	74.00	-21.34 peak
6	9748.000	10.76	37.75	37.52	41.91	52.90	74.00	-21.10 peak

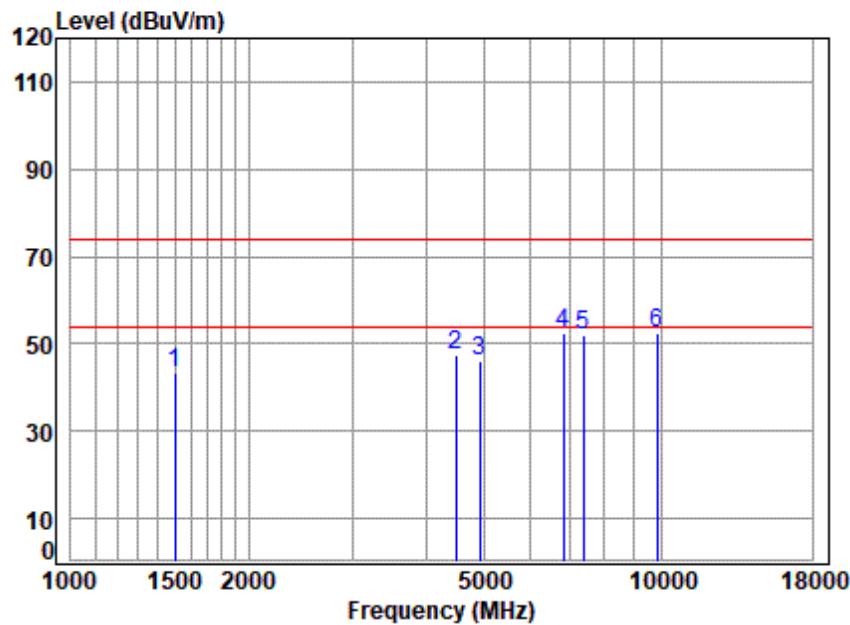
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1503.119	3.26	25.81	39.95	54.40	43.52	74.00	-30.48	peak
2	4495.125	6.76	33.59	41.87	49.00	47.48	74.00	-26.52	peak
3	4924.000	7.22	34.11	42.24	46.99	46.08	74.00	-27.92	peak
4	6835.278	8.46	35.80	41.81	50.14	52.59	74.00	-21.41	peak
5	7386.000	8.91	36.21	41.34	48.36	52.14	74.00	-21.86	peak
6	9848.000	10.73	37.81	37.35	41.44	52.63	74.00	-21.37	peak

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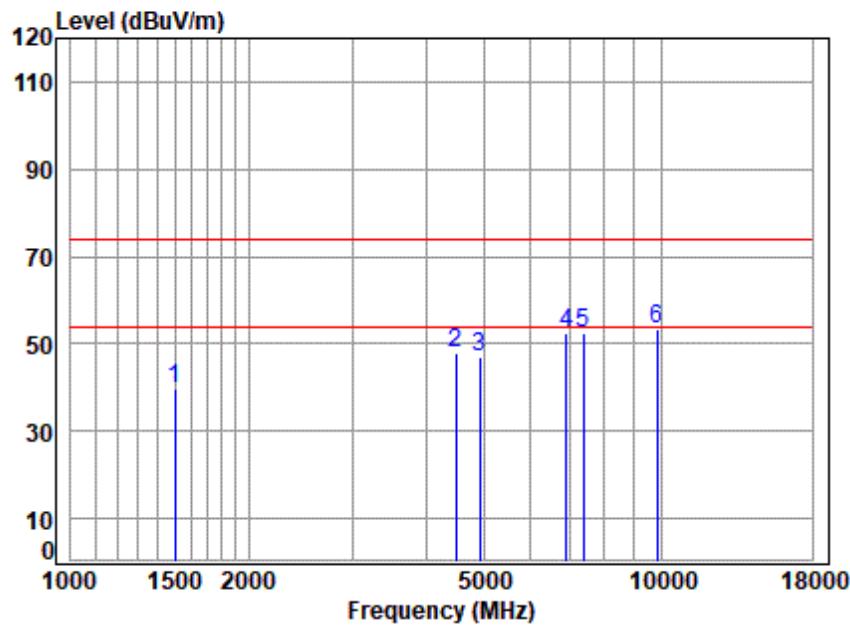
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2462 TX RSE
 Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1 1498.781	3.26	25.80	39.95	50.69	39.80	74.00	-34.20	peak	
2 4495.125	6.76	33.59	41.87	49.33	47.81	74.00	-26.19	peak	
3 4924.000	7.22	34.11	42.24	48.11	47.20	74.00	-26.80	peak	
4 6894.806	8.49	35.84	41.77	49.89	52.45	74.00	-21.55	peak	
5 7386.000	8.91	36.21	41.34	48.70	52.48	74.00	-21.52	peak	
6 9848.000	10.73	37.81	37.35	41.99	53.18	74.00	-20.82	peak	

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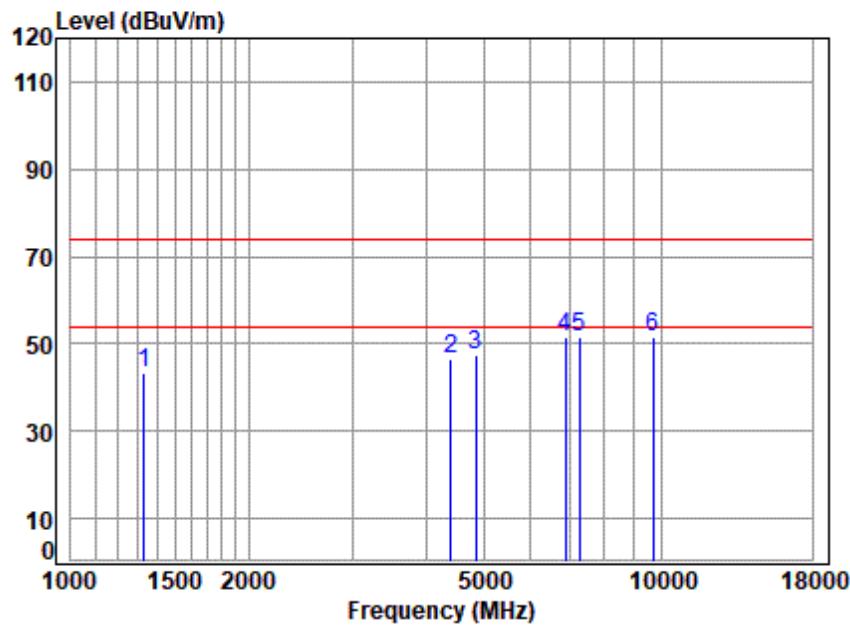
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00028CR/00029CR
 Mode : 2422 TX RSE
 Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1	1331.288	3.00	25.15	39.85	54.95	43.25	74.00	-30.75	peak
2	4405.090	6.67	33.44	41.79	48.27	46.59	74.00	-27.41	peak
3	4844.000	7.14	34.02	42.17	48.53	47.52	74.00	-26.48	peak
4	6874.906	8.48	35.83	41.78	49.03	51.56	74.00	-22.44	peak
5	7266.000	8.79	36.12	41.45	48.19	51.65	74.00	-22.35	peak
6	9688.000	10.78	37.71	37.63	40.84	51.70	74.00	-22.30	peak

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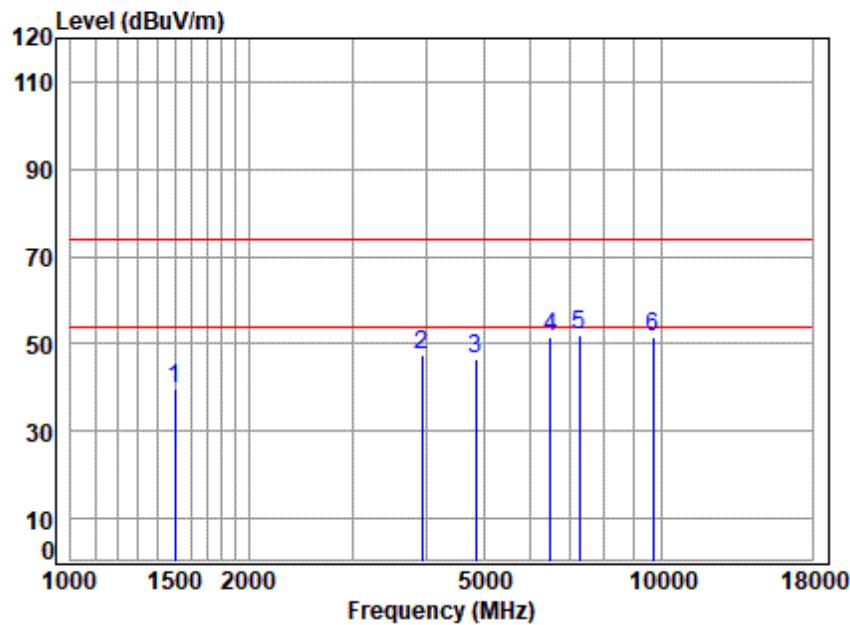
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00028CR/00029CR
 Mode : 2422 TX RSE
 Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
									dB/m
1	1498.781	3.26	25.80	39.95	50.57	39.68	74.00	-34.32	peak
2	3935.493	6.19	32.58	41.36	49.87	47.28	74.00	-26.72	peak
3	4844.000	7.14	34.02	42.17	47.64	46.63	74.00	-27.37	peak
4	6488.754	8.28	35.59	42.04	49.55	51.38	74.00	-22.62	peak
5	7266.000	8.79	36.12	41.45	48.54	52.00	74.00	-22.00	peak
6	9688.000	10.78	37.71	37.63	40.84	51.70	74.00	-22.30	peak

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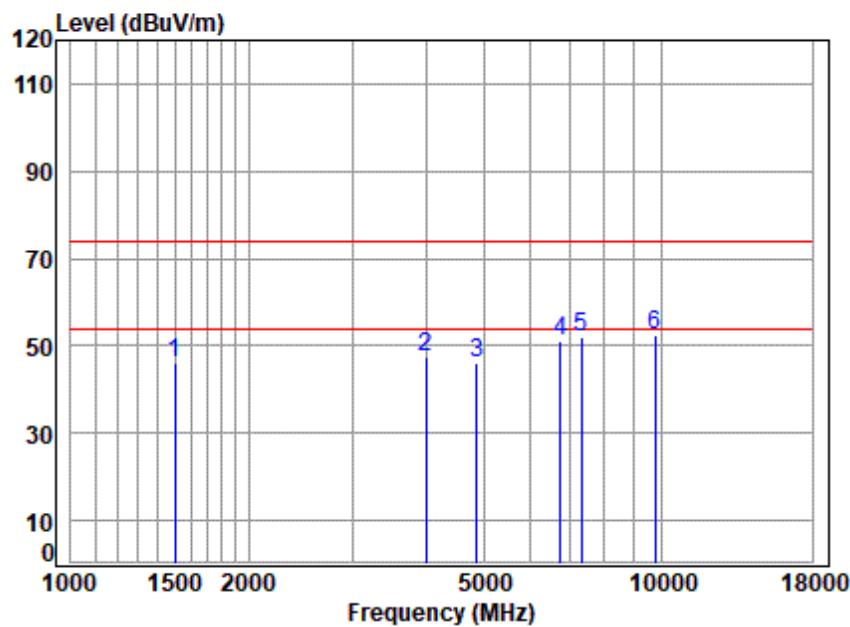
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1503.119	3.26	25.81	39.95	57.15	46.27	74.00	-27.73	peak
2	3992.781	6.27	32.69	41.40	49.89	47.45	74.00	-26.55	peak
3	4874.000	7.17	34.05	42.20	47.25	46.27	74.00	-27.73	peak
4	6737.207	8.41	35.75	41.87	48.96	51.25	74.00	-22.75	peak
5	7311.000	8.84	36.15	41.41	48.48	52.06	74.00	-21.94	peak
6	9748.000	10.76	37.75	37.52	41.39	52.38	74.00	-21.62	peak

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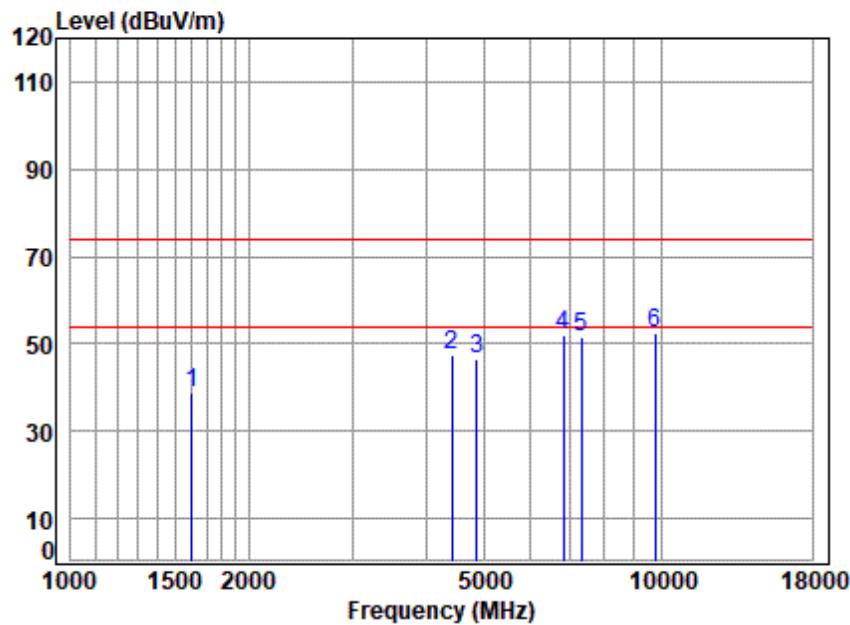
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N40

Freq	MHz	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1606.441	3.35	26.28	40.01	49.37	38.99	74.00	-35.01 peak
2	4417.841	6.68	33.46	41.80	48.97	47.31	74.00	-26.69 peak
3	4874.000	7.17	34.05	42.20	47.72	46.74	74.00	-27.26 peak
4	6815.551	8.45	35.79	41.82	49.38	51.80	74.00	-22.20 peak
5	7311.000	8.84	36.15	41.41	48.17	51.75	74.00	-22.25 peak
6	9748.000	10.76	37.75	37.52	41.68	52.67	74.00	-21.33 peak

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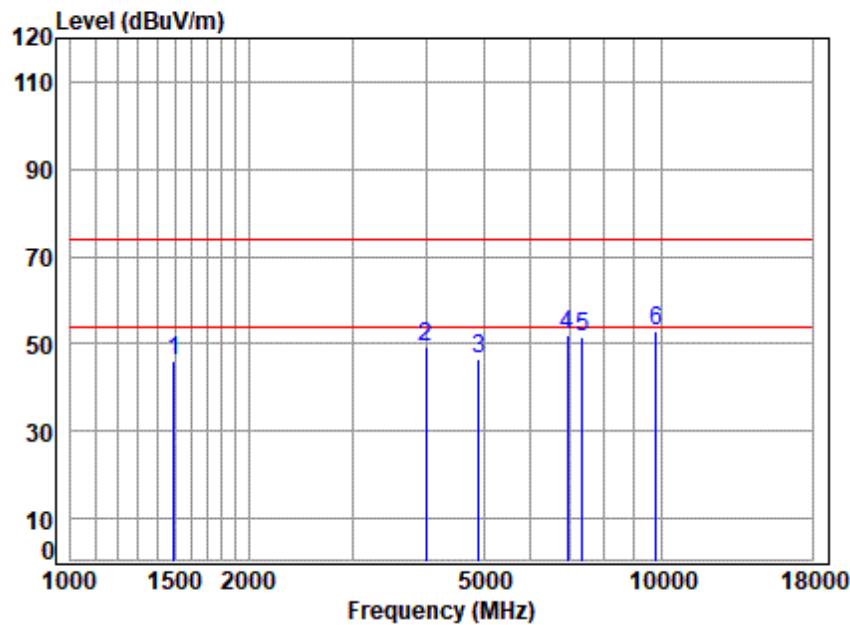
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



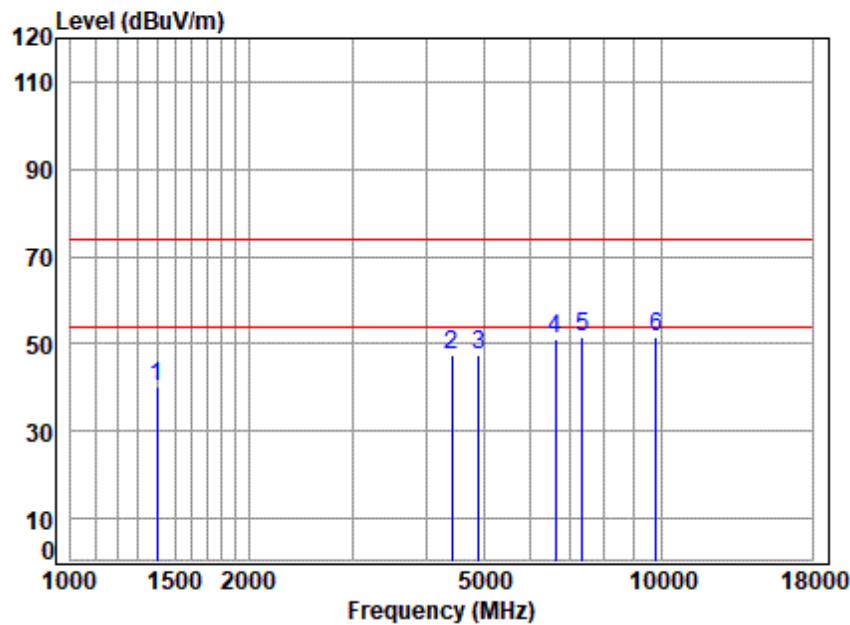
Site : chamber
Condition: 3m HORIZONTAL
Job No : 00028CR/00029CR
Mode : 2452 TX RSE
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1494.455	3.25	25.78	39.95	57.03	46.11	74.00	-27.89	peak
2	3992.781	6.27	32.69	41.40	51.85	49.41	74.00	-24.59	peak
3	4904.000	7.20	34.09	42.22	47.54	46.61	74.00	-27.39	peak
4	6934.778	8.51	35.86	41.74	49.56	52.19	74.00	-21.81	peak
5	7356.000	8.88	36.19	41.37	47.81	51.51	74.00	-22.49	peak
6	9808.000	10.75	37.79	37.42	41.68	52.80	74.00	-21.20	peak

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00028CR/00029CR
Mode : 2452 TX RSE
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1 1398.336	3.10	25.42	39.89	51.30	39.93	74.00	-34.07	peak	
2 4417.841	6.68	33.46	41.80	49.31	47.65	74.00	-26.35	peak	
3 4904.000	7.20	34.09	42.22	48.51	47.58	74.00	-26.42	peak	
4 6621.375	8.34	35.67	41.95	49.27	51.33	74.00	-22.67	peak	
5 7356.000	8.88	36.19	41.37	48.03	51.73	74.00	-22.27	peak	
6 9808.000	10.75	37.79	37.42	40.59	51.71	74.00	-22.29	peak	

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8 Test Setup Photo

Please refer to setup photos.

9 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

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10 Appendix1 for 15.247- Dock WLAN(Station mode)

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.200	12.300	99.19	0.04
	2437	SISO	1	12.200	12.300	99.19	0.04
	2462	SISO	1	12.200	12.300	99.19	0.04
802.11g	2412	SISO	1	2.026	2.127	95.25	0.21
	2437	SISO	1	2.026	2.127	95.25	0.21
	2462	SISO	1	2.026	2.127	95.25	0.21
802.11n(HT20)	2412	MIMO	1	1.858	1.963	94.65	0.24
	2437	MIMO	1	1.888	1.992	94.78	0.23
	2462	MIMO	1	1.888	1.994	94.68	0.24
802.11n(HT40)	2422	MIMO	1	0.901	1.003	89.83	0.47
	2437	MIMO	1	0.928	1.032	89.92	0.46
	2452	MIMO	1	0.901	1.003	89.83	0.47

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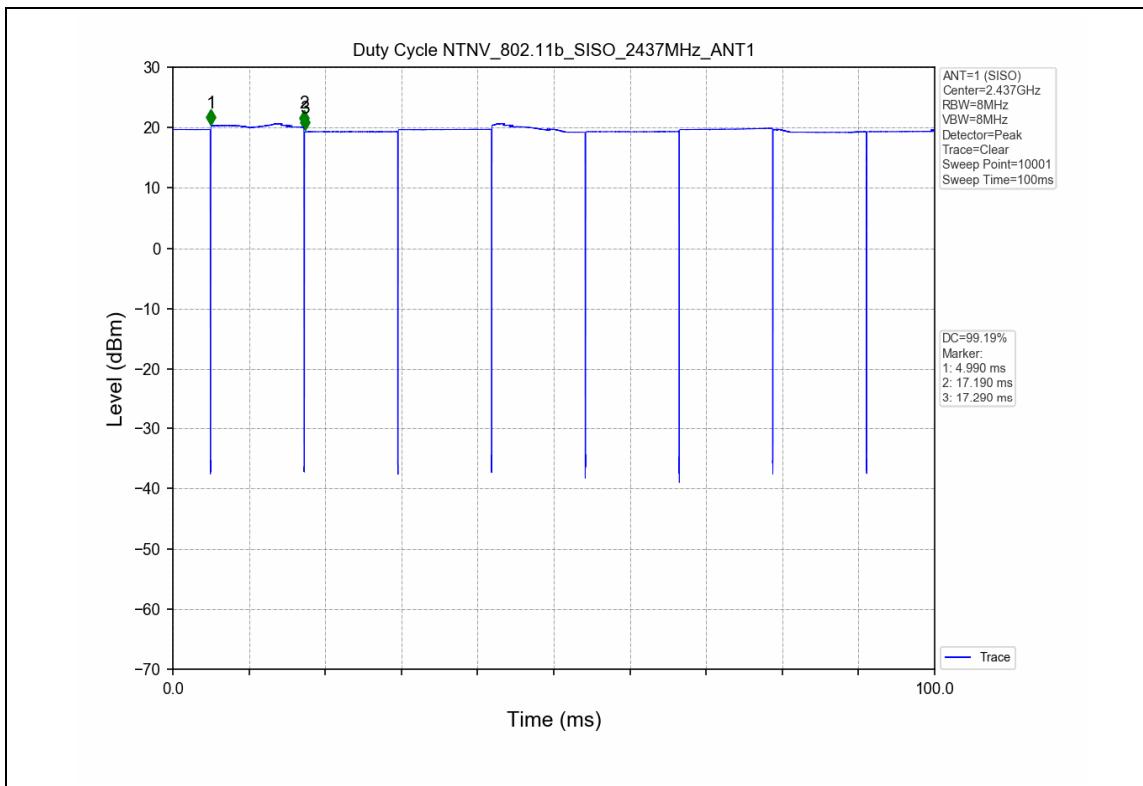
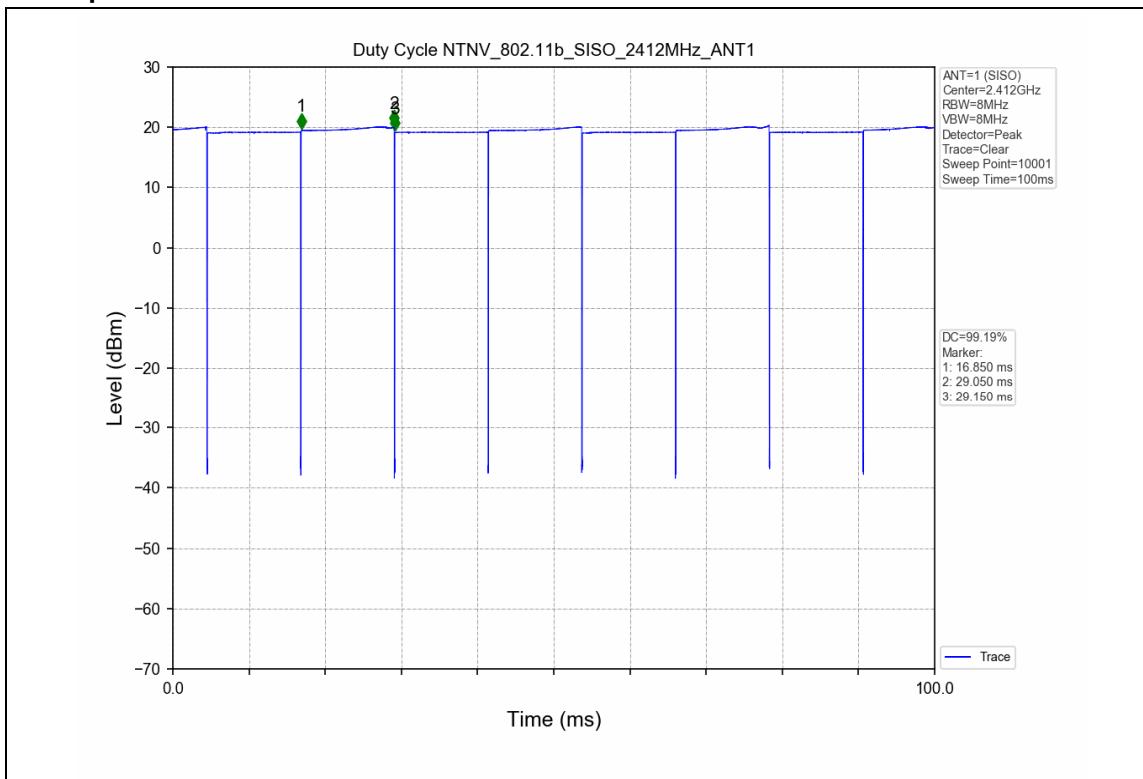
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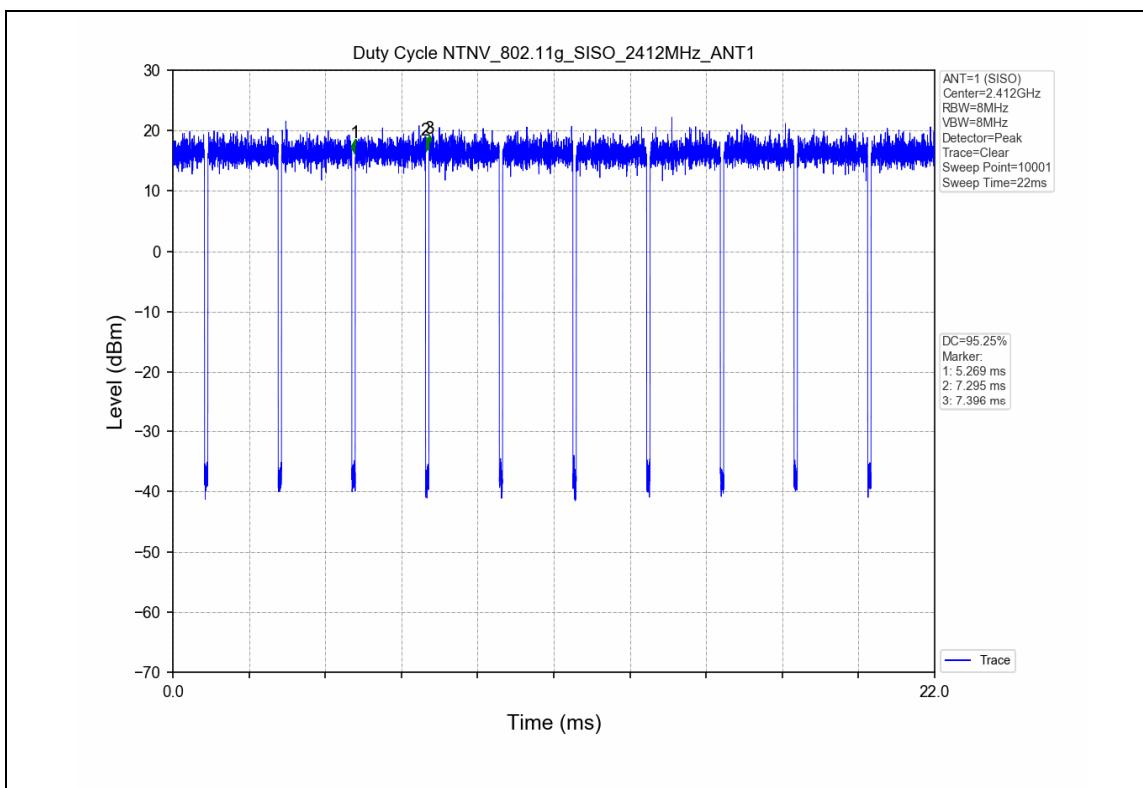
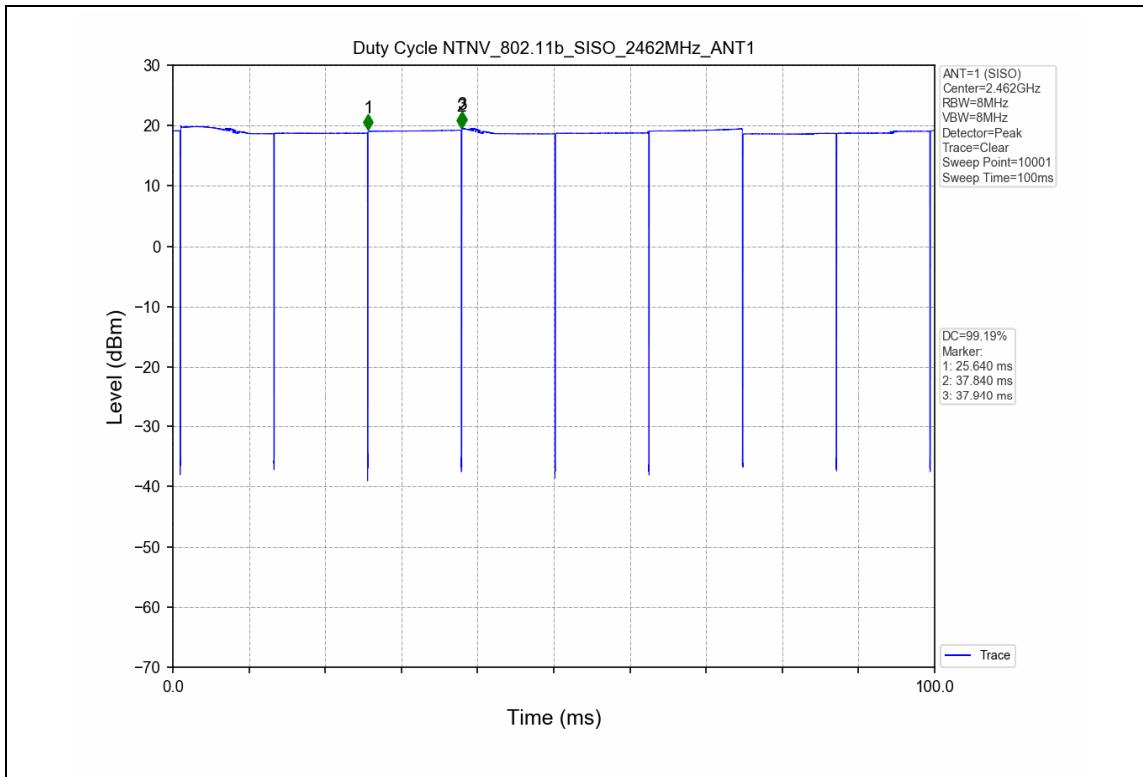
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1.2 Test Graph



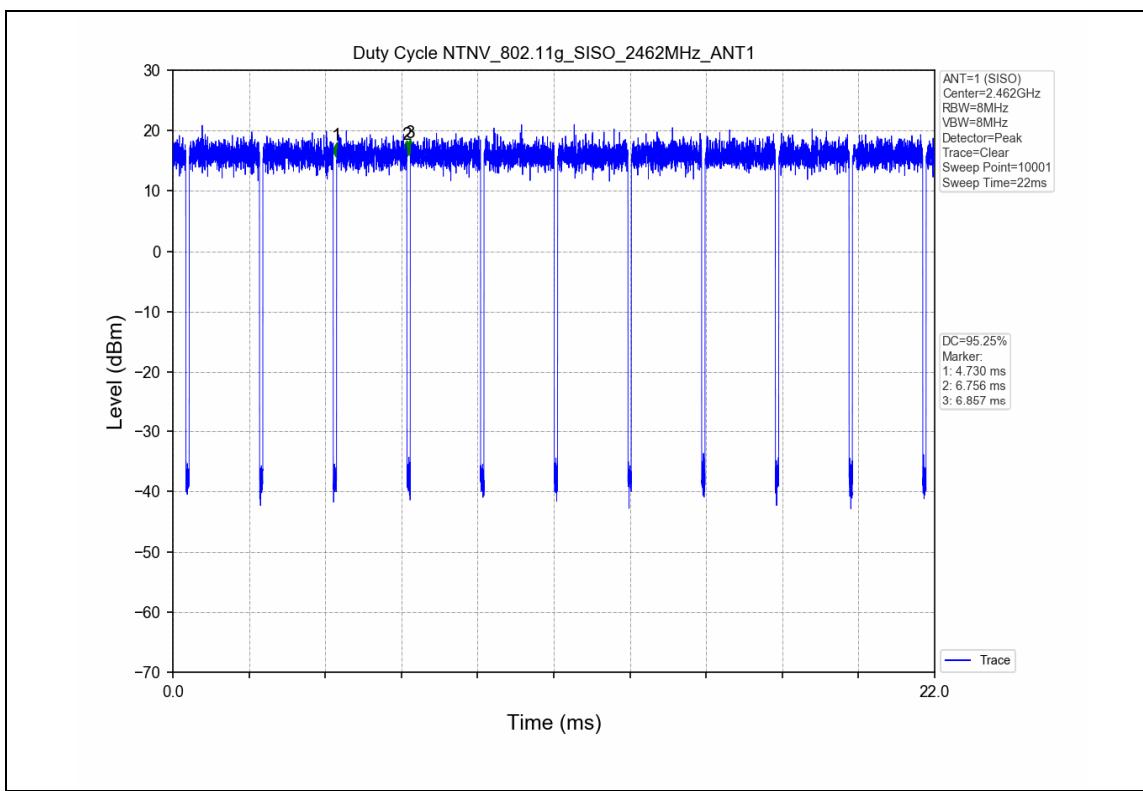
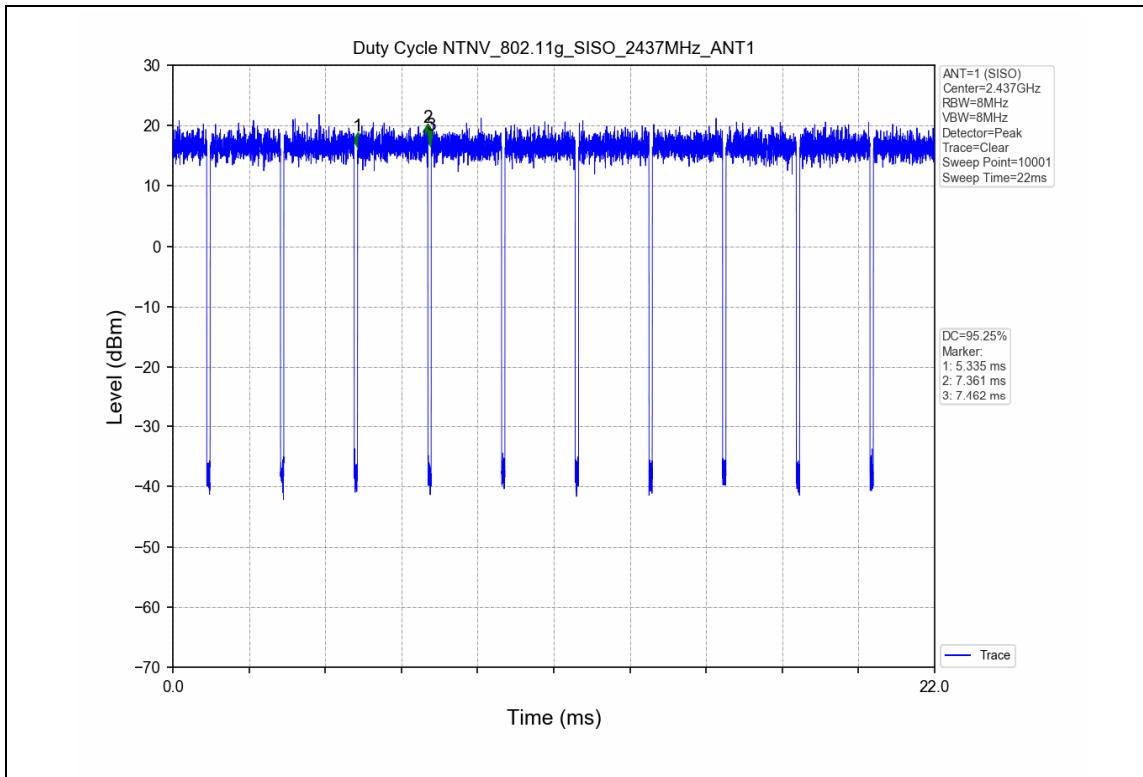
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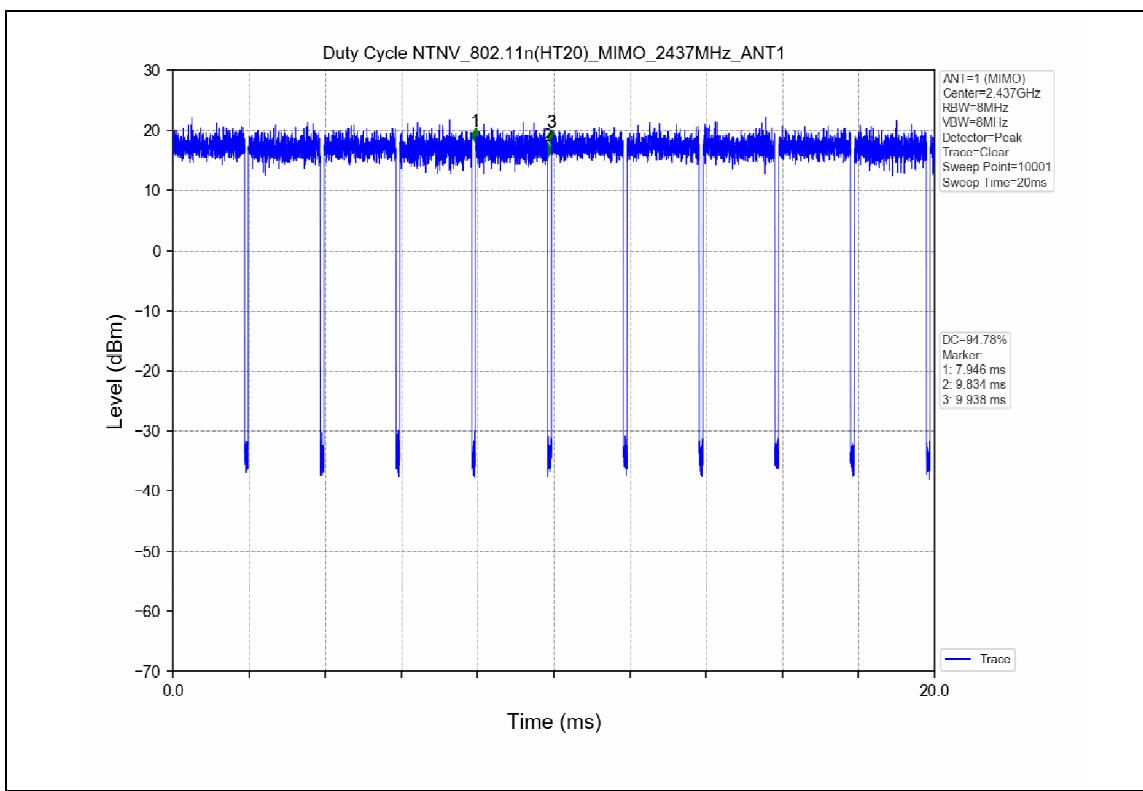
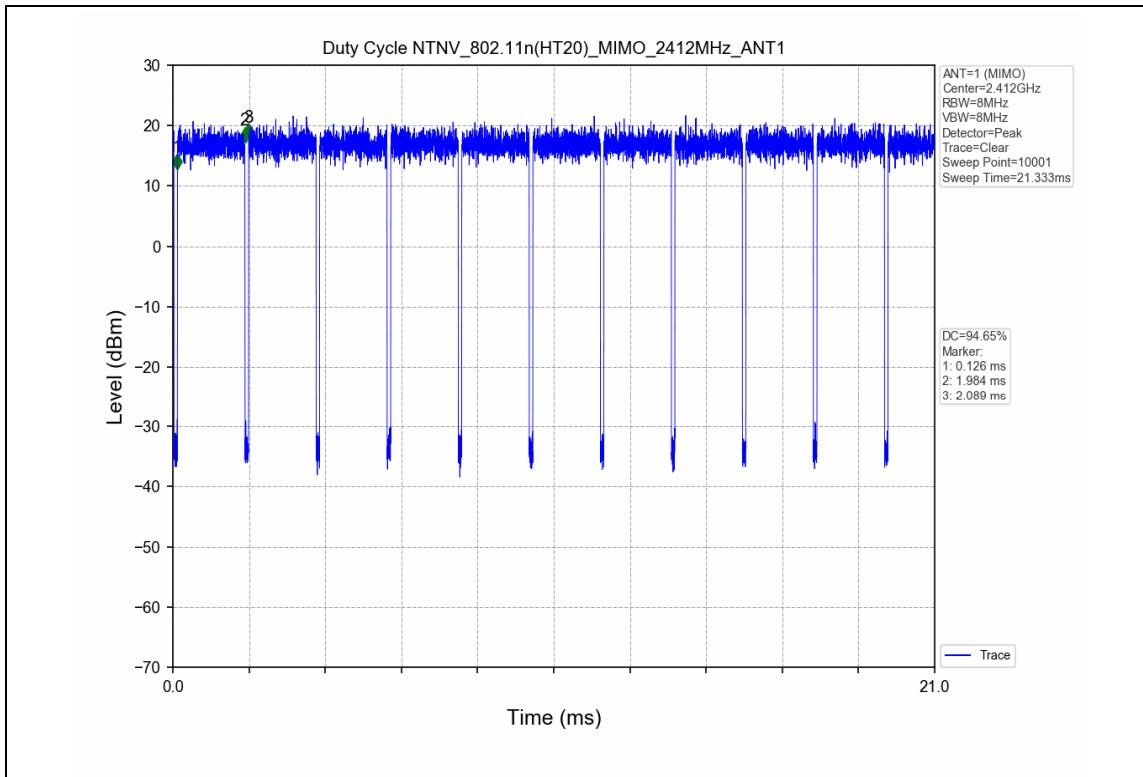
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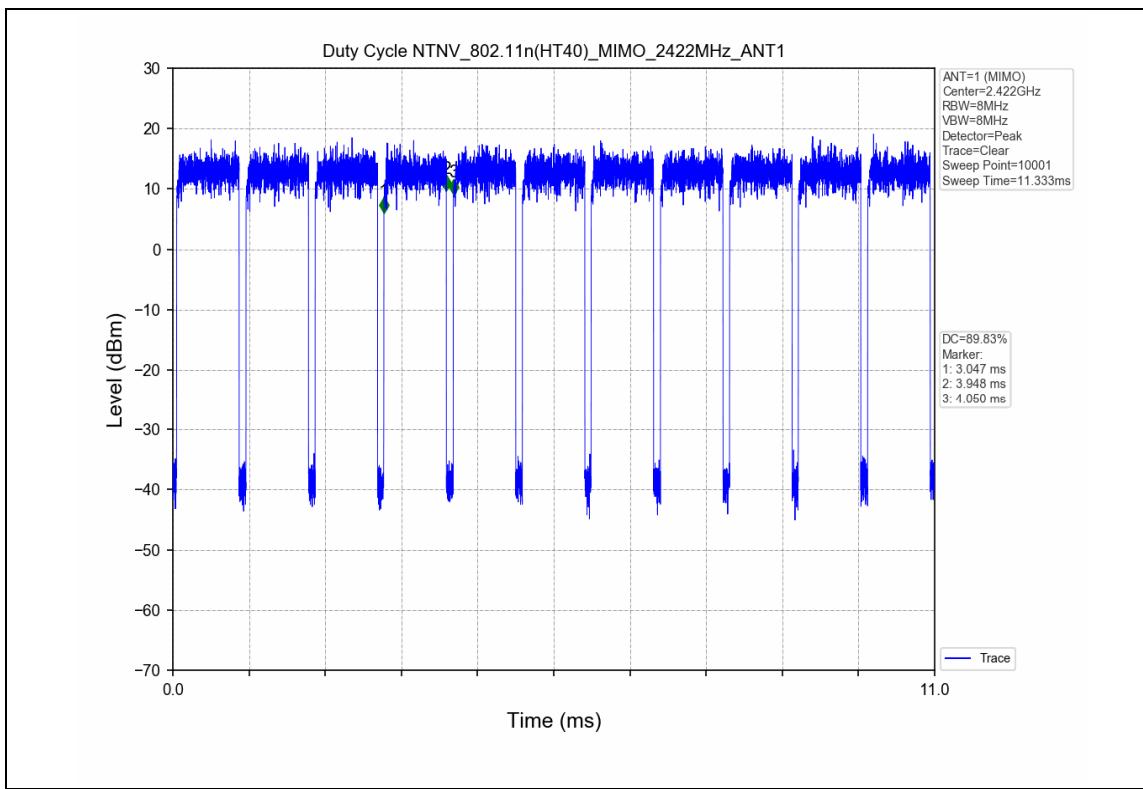
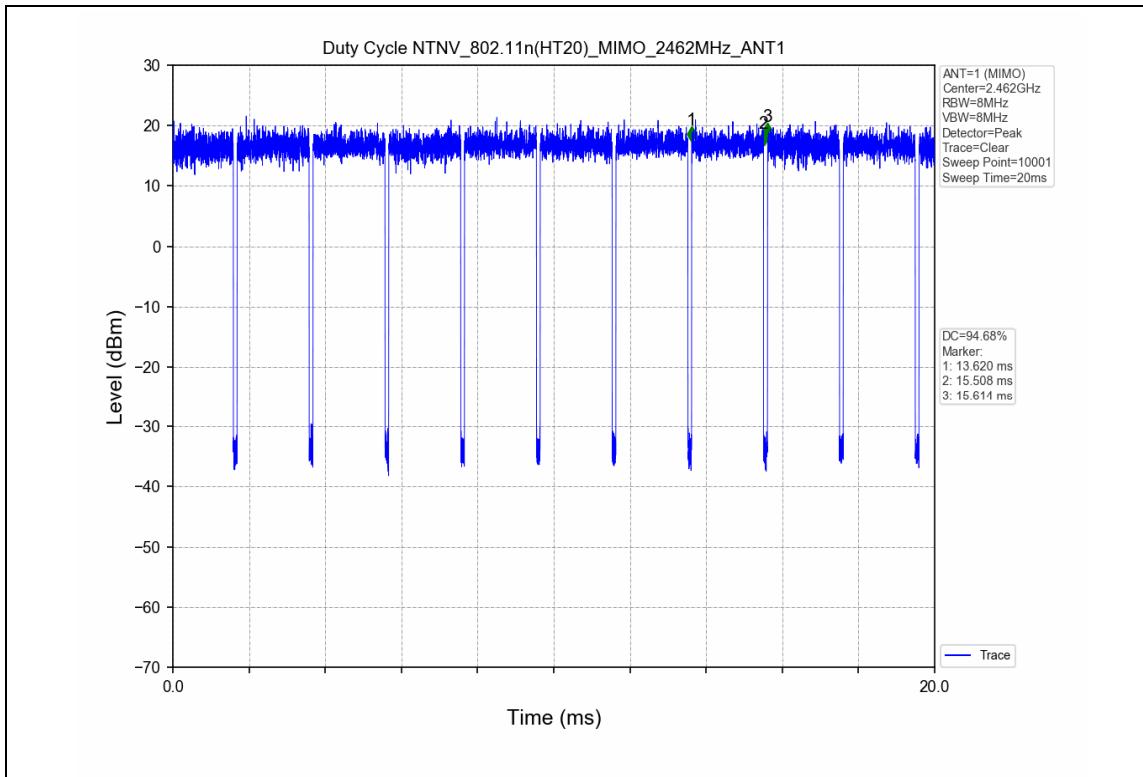
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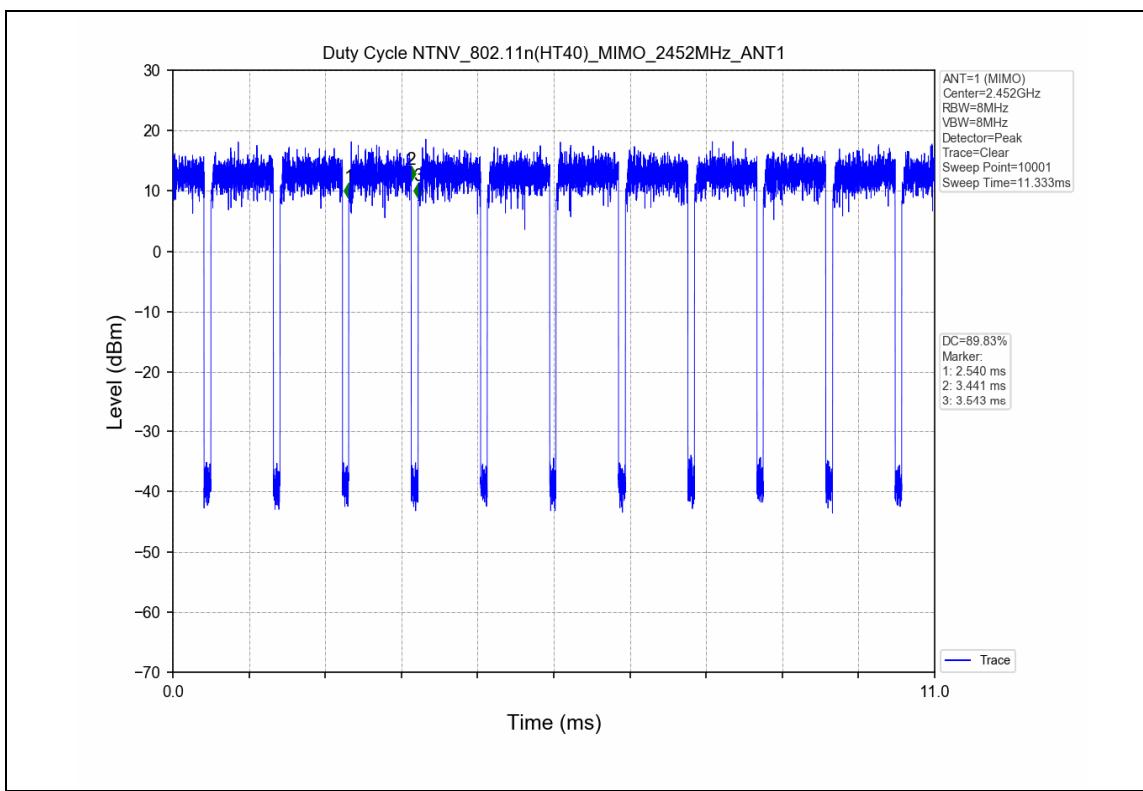
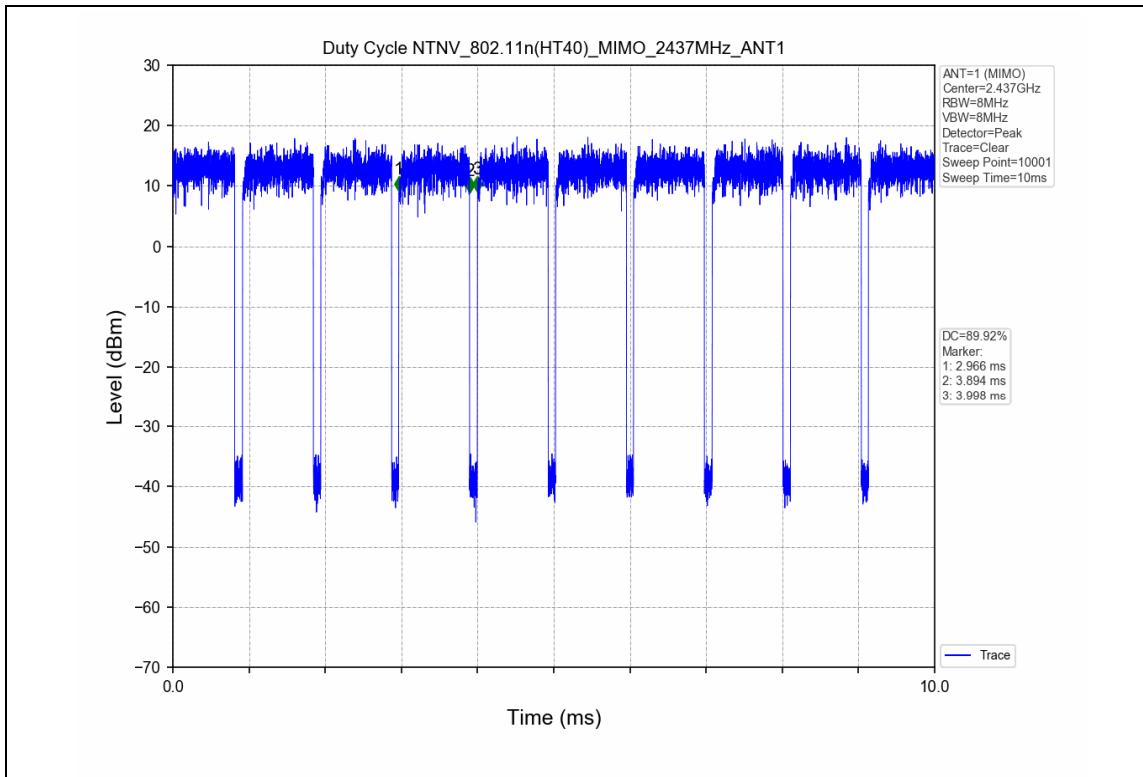
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2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	8.051	≥0.5	PASS
	2437	SISO	1	7.603	≥0.5	PASS
	2462	SISO	1	8.063	≥0.5	PASS
802.11g	2412	SISO	1	15.117	≥0.5	PASS
	2437	SISO	1	15.132	≥0.5	PASS
	2462	SISO	1	15.399	≥0.5	PASS
802.11n(HT20)	2412	MIMO	1	15.166	≥0.5	PASS
	2437	MIMO	1	15.124	≥0.5	PASS
	2462	MIMO	1	14.465	≥0.5	PASS
802.11n(HT40)	2422	MIMO	1	35.149	≥0.5	PASS
	2437	MIMO	1	35.135	≥0.5	PASS
	2452	MIMO	1	35.167	≥0.5	PASS

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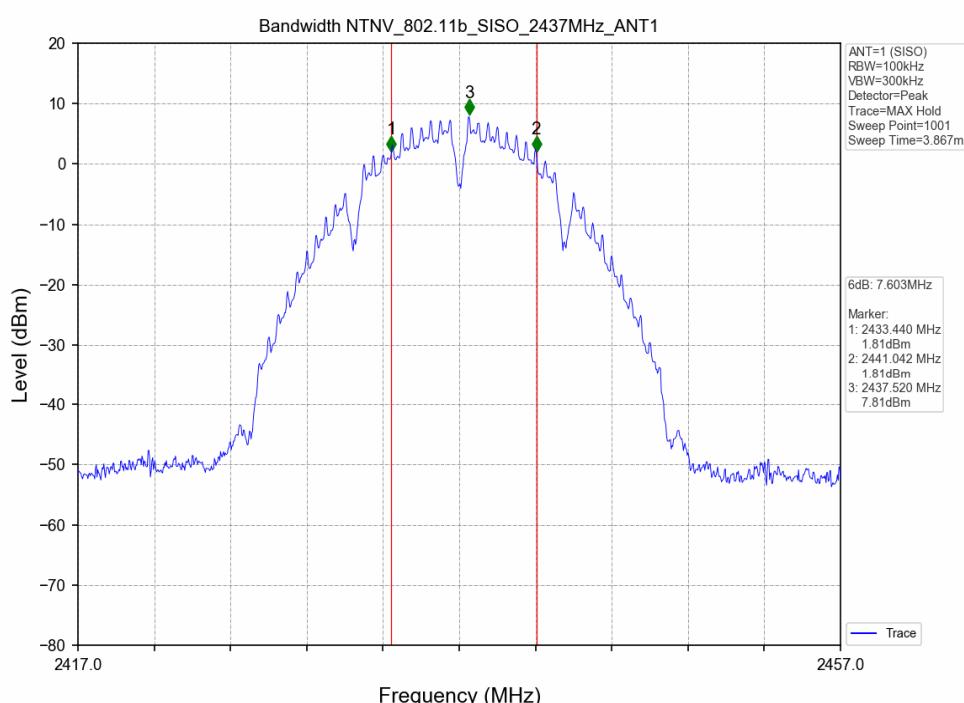
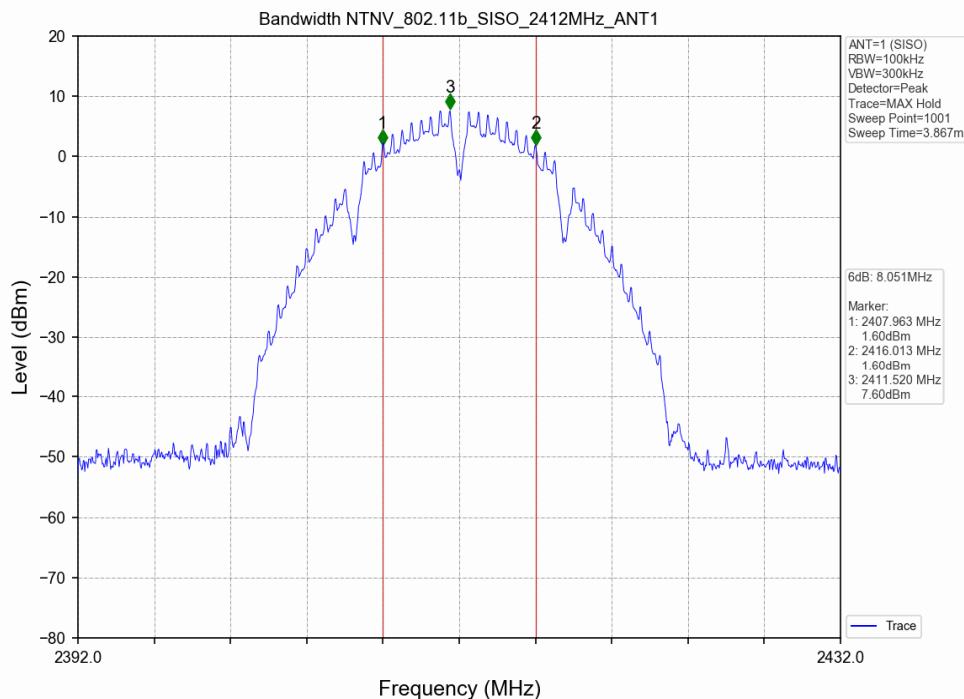
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2.2 Test Graph - 6dB Bandwidth



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